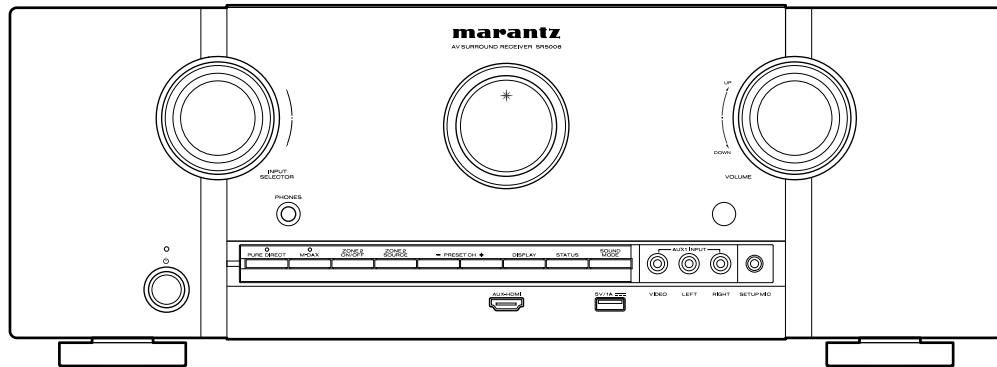


# Service Manual

SR5008 /U1B,K1B  
N1SG,N1B

AV Surround Receiver



• 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®

## SR5008

Ver.3

Please refer to the  
MODIFICATION NOTICE.

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# ABOUT THIS MANUAL

Read the following information before using the service manual.

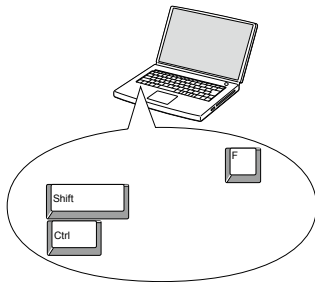
## What you can do with this manual

### 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.

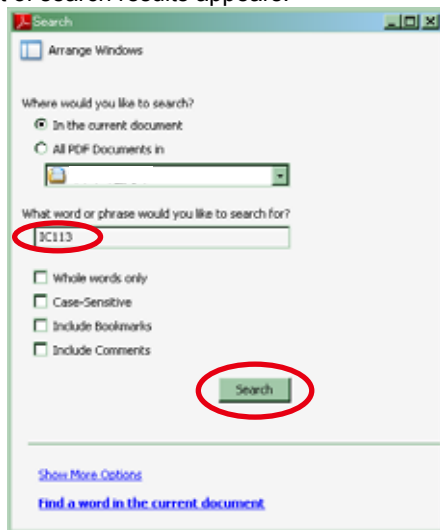
1. Press **Ctrl+Shift+F** on the keyboard.

- 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.



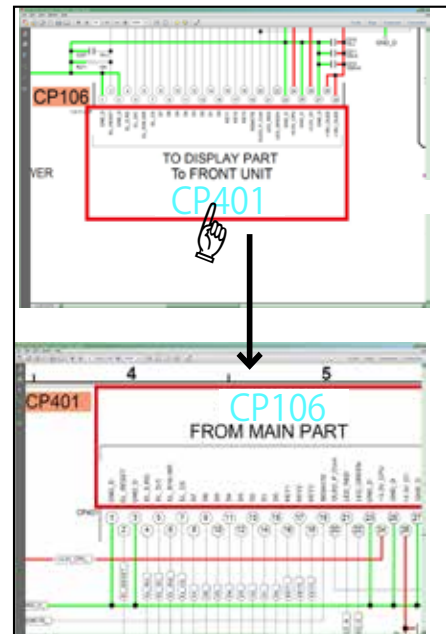
3. Click an item on the list.

- 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)

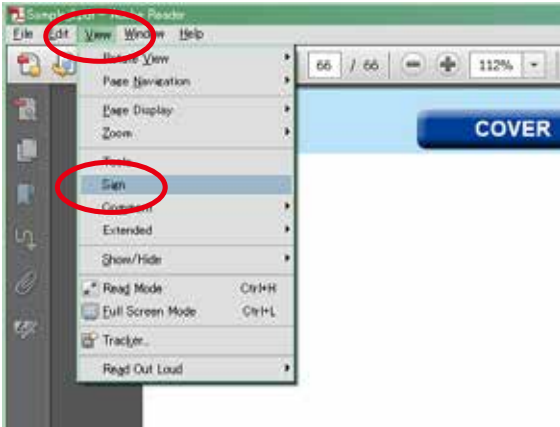
The Sign function lets you add notes to the data in this manual.

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]

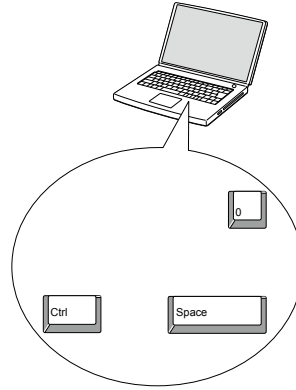
On the "Document" menu, click "Sign".

### 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.

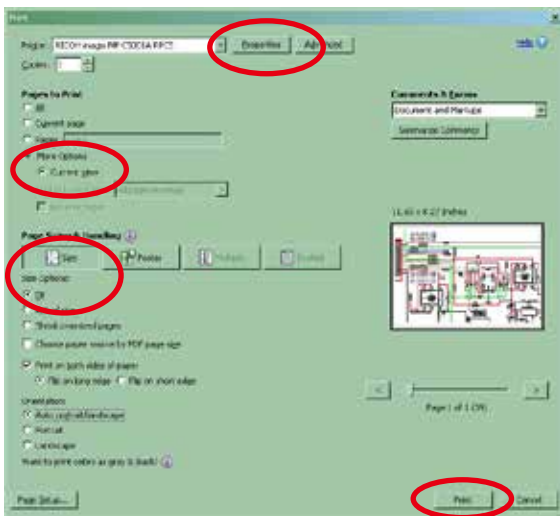


- When you want to move the area shown, hold down **Space** and drag the mouse.
- When you want to show a full page view, press **Ctrl+0** on the keyboard.

### 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.



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

#### • 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"**

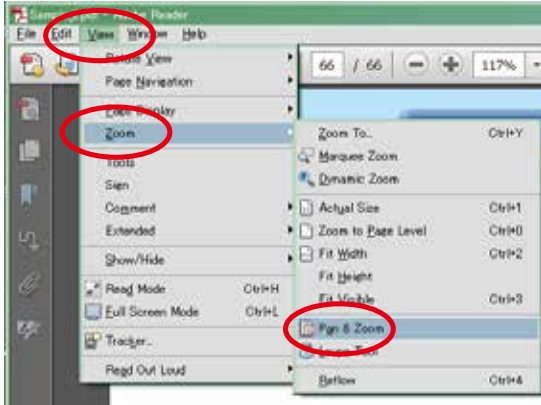
## Magnify schematic / printed wiring board diagrams - 2

### (Pan & Zoom function)

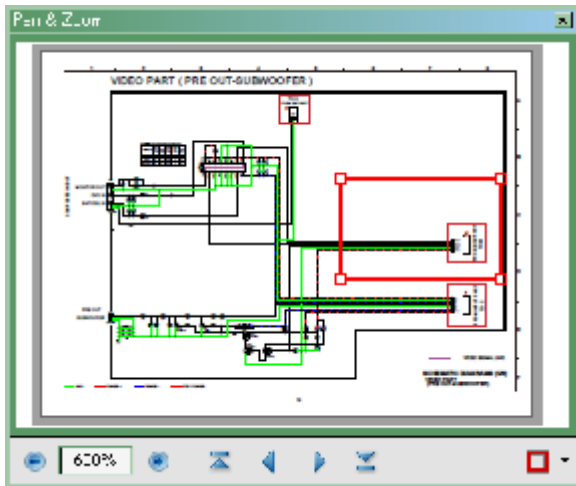
The Pan & Zoom function lets you see which part of a magnified diagram is being shown in a separate window.

#### [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".

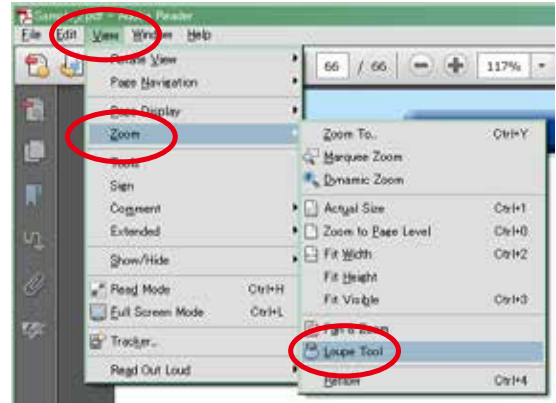
## Magnify schematic / printed wiring board diagrams - 3

### (Loupe Tool function)

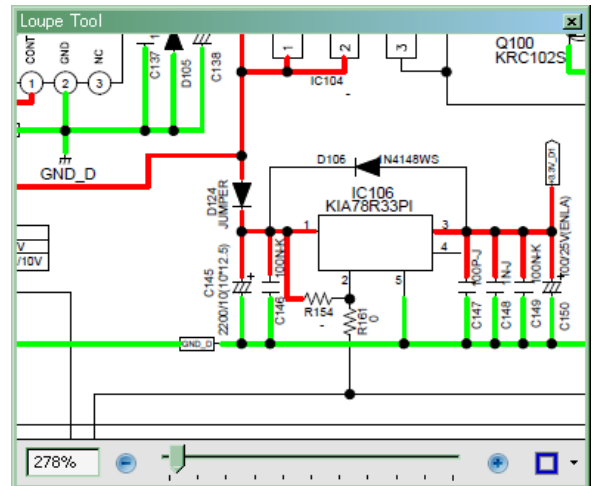
The Loupe Tool function lets you magnify a specific part of a diagram in a separate window.

#### [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".

## 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 $\Omega$  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.

## NOTE FOR SCHEMATIC DIAGRAM

### WARNING:

Parts indicated by the  $\triangle$  mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

### CAUTION:

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.

### WARNING:

DO NOT return the set to the customer unless the problem is identified and remedied.

### NOTICE:

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM / M=1,000,000 OHM

ALL CAPACITANCE VALUES ARE EXPRESSED IN MICRO FARAD, UNLESS OTHERWISE INDICATED. P INDICATES MICRO-MICRO FARAD. EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

## NOTE FOR PARTS LIST

1. Parts indicated by "nsp" on this table cannot be supplied.
2. When ordering a part, make a clear distinction between "1" and "I" (i) to avoid mis-supplying.
3. A part ordered without specifying its part number can not be supplied.
4. Part indicated by "★" mark is not illustrated in the exploded view.
5. General-purpose Carbon Film Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
6. General-purpose Carbon Chip Resistors are not included are not included in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

**WARNING:** Parts indicated by the  $\triangle$  mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

## INSTRUCTIONS FOR HANDLING SEMI-CONDUCTORS AND OPTICAL UNIT

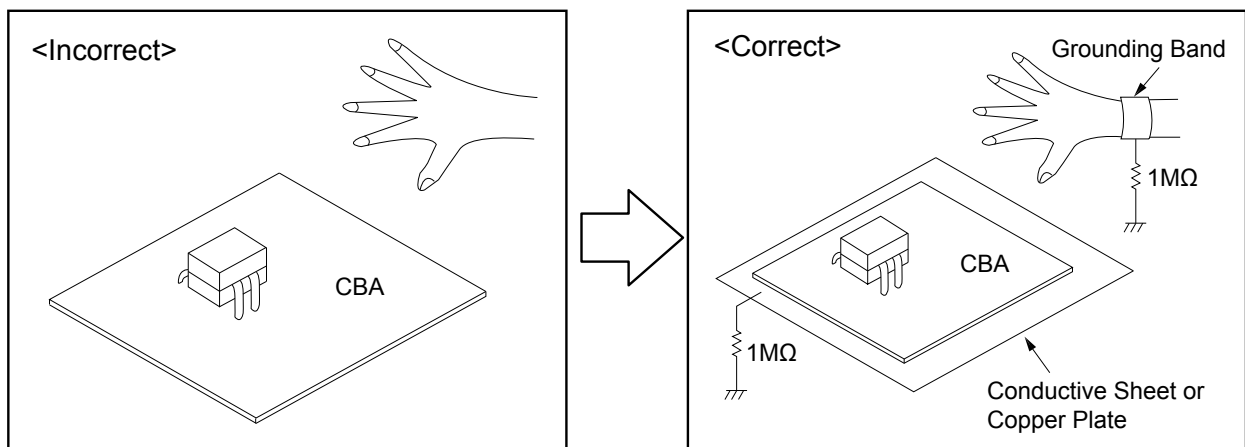
Electrostatic breakdown of the semi-conductors or optical pickup may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

### 1. Ground for Human Body

Be sure to wear a grounding band (1 M $\Omega$ ) that is properly grounded to remove any static electricity that may be charged on the body.

### 2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1 M $\Omega$ ) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing





# TECHNICAL SPECIFICATIONS

## Audio section

### Power amplifier

#### Rated output:

##### Front:

100 W + 100 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)  
 140 W + 140 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)

##### Center:

100 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)  
 140 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)

##### Surround:

100 W + 100 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)  
 140 W + 140 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)

##### Surround back:

100 W + 100 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.)  
 140 W + 140 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)

#### Output connectors: 6 – 16 Ω/ohms

### Analog

**Input sensitivity/Input impedance:** 200 mV/47 kΩ/kohms

**Frequency response:** 10 Hz – 100 kHz — +1, –3 dB (DIRECT mode)

**S/N :** 100 dB (IHF–A weighted, DIRECT mode)

## Video section

### Standard video connectors

**Input/output level and impedance:** 1 Vp-p, 75 Ω/ohms

**Frequency response:** 5 Hz – 10 MHz — 0, –3 dB

### Color component video connector

**Input/output level and impedance:** Y signal — 1 Vp-p, 75 Ω/ohms

P<sub>B</sub> / C<sub>B</sub> signal — 0.7 Vp-p, 75 Ω/ohms

P<sub>R</sub> / C<sub>R</sub> signal — 0.7 Vp-p, 75 Ω/ohms

**Frequency response:** 5 Hz – 60 MHz — 0, –3 dB

## Tuner section

(Note: μV at 75 Ω/ohms, 0 dBf = 1 x 10<sup>-15</sup> W)

**Receiving Range:** FM 87.5 MHz – 107.9 MHz  
 AM 520 kHz – 1710 kHz

**Usable Sensitivity:** FM 1.2 μV (12.8 dBf)  
 AM 18 μV

**50 dB Quieting Sensitivity:** MONO 2.8 μV (20.2 dBf)

**S/N :** MONO 70 dB (IHF–A weighted, DIRECT mode)  
 STEREO 67 dB (IHF–A weighted, DIRECT mode)

**Total harmonic Distortion:** MONO 0.7 % (1 kHz)

STEREO 1.0 % (1 kHz)

## General

**Power supply:** AC 120 V, 60 Hz

**Power consumption:** 650 W

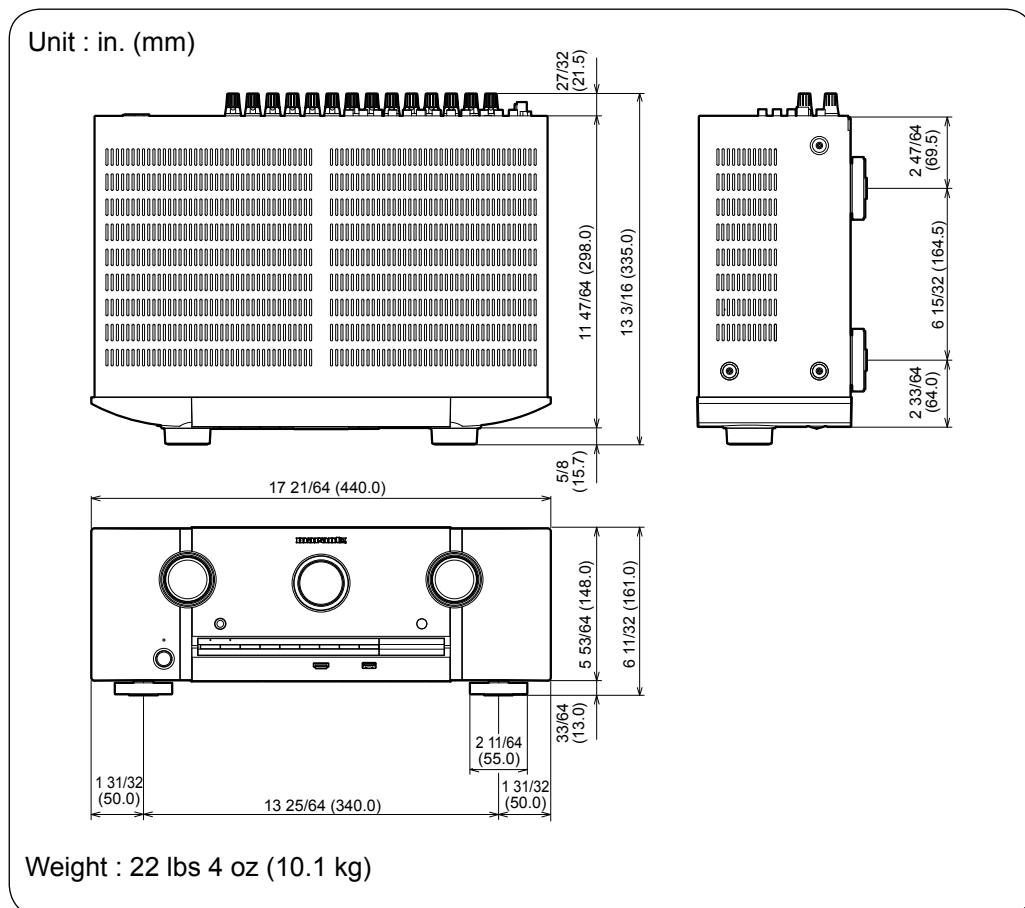
**Power consumption in standby mode:** 0.2 W

**Power consumption in CEC standby mode:** 0.5 W

**Power consumption in network standby mode:** 2.7 W(Default)

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

# DIMENSION



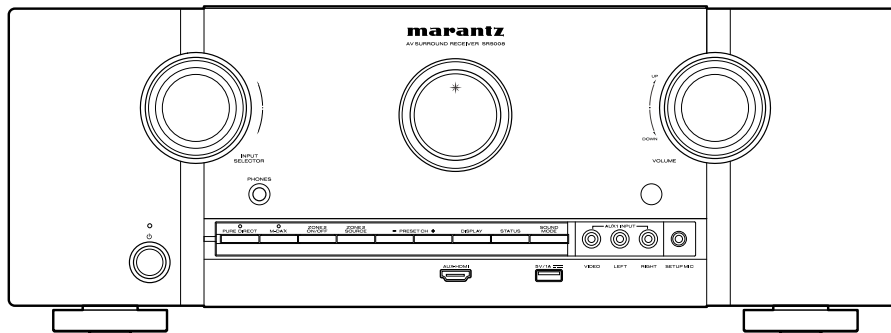
## CAUTION IN SERVICING

### Initializing AV SURROUND RECEIVER

AV SURROUND RECEIVER initialization should be performed when the  $\mu$ com, peripheral parts of  $\mu$ com, and Digital PCB were replaced.

1. Turn off the power pressing "**Power operation ( $\phi$ )**" button.
2. Press "**Power operation ( $\phi$ )**" button while simultaneously while pressing "**PRESET CH+**" and "**PRESET CH-**" 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.



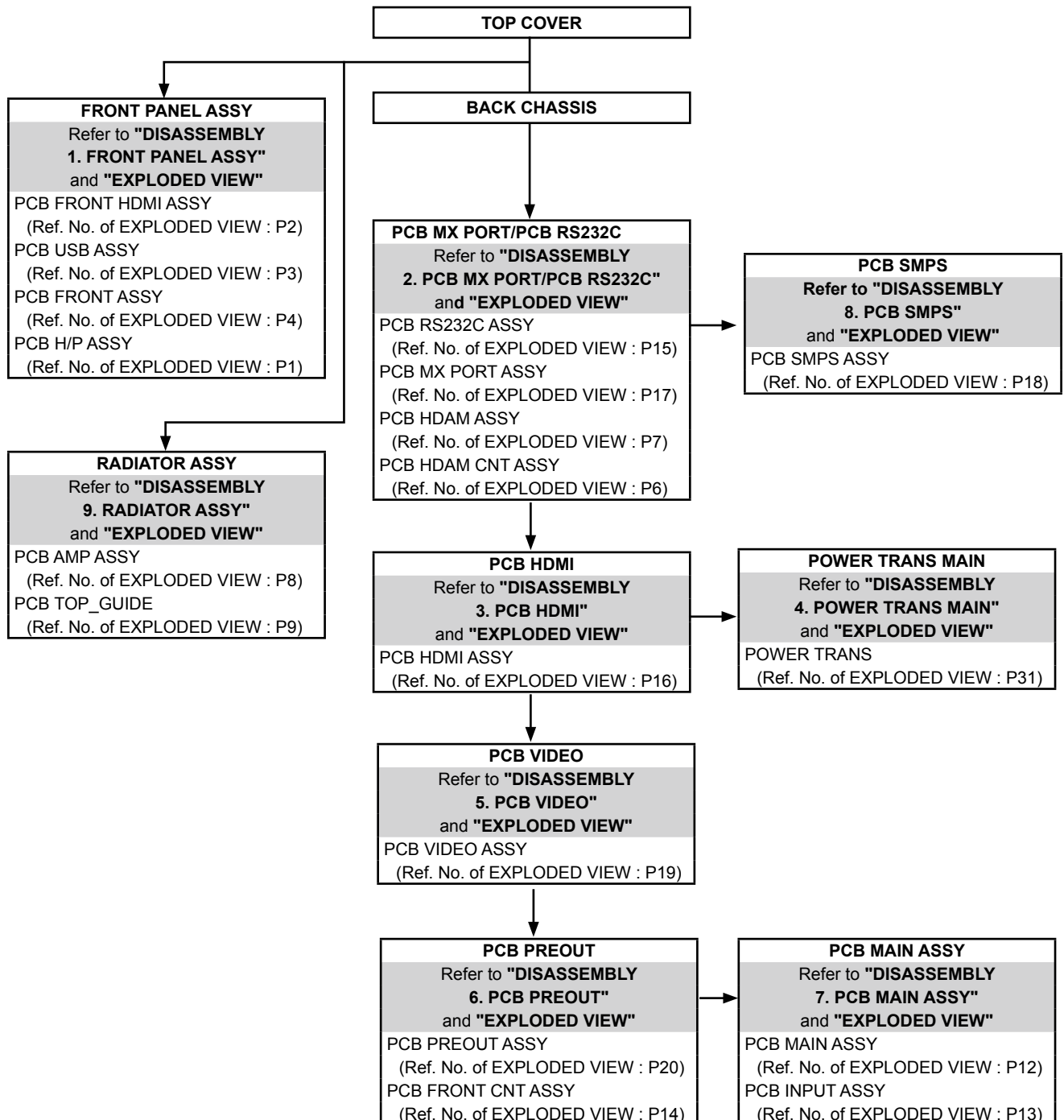
### Service Jig

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

8U-110084S : EXTENSION UNIT KIT : 1 Set  
8U-110136S : EXTENSION UNIT KIT : 1 Set  
(Refer to [53 page.](#))

# 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 re-assembling, observe "attention of assembling".
  - 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.

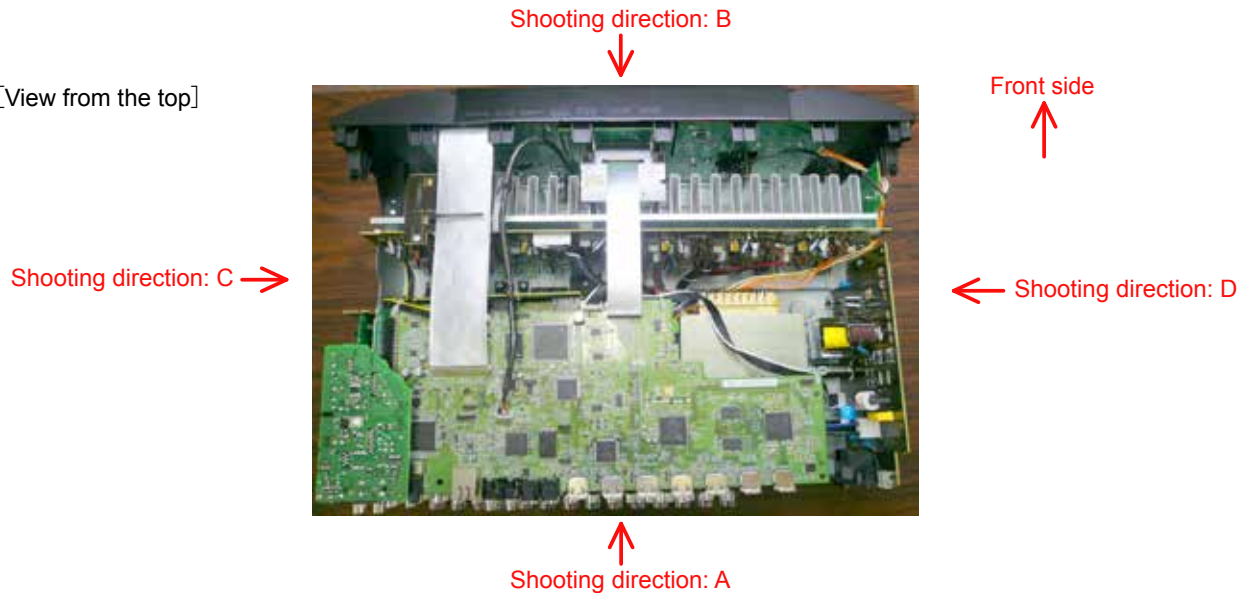


### About the photos used for "descriptions of the DISASSEMBLY" section

- 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 SR5008 model.

### The viewpoint of each photograph (Shooting direction)

[View from the top]



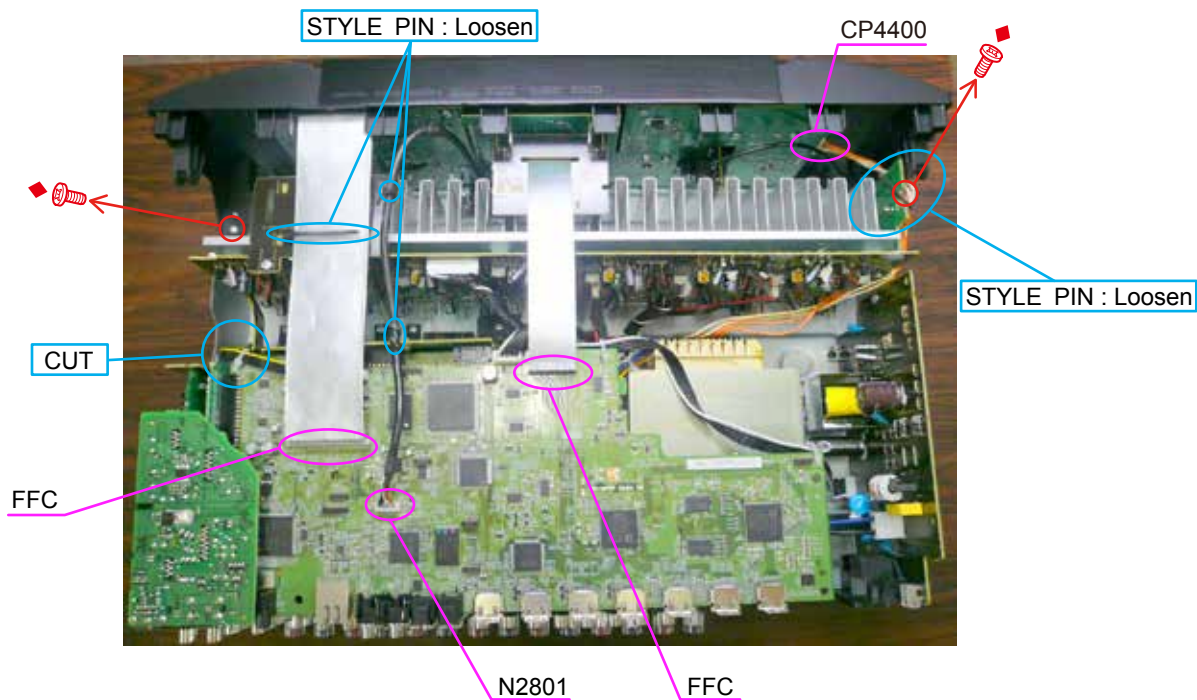
# 1. FRONT PANEL ASSY

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

(1) Remove the screws.



(2) Cut the wire clamp band, then disconnect the connector wires and FFC. Remove the screws.

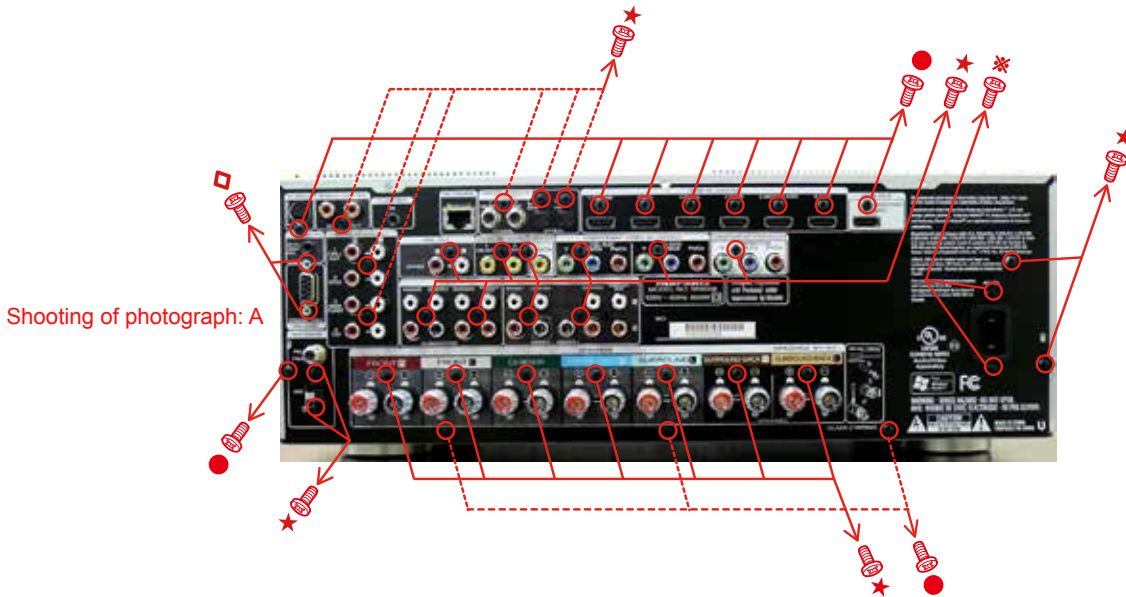


Please refer to "EXPLODED VIEW" for the disassembly method of each P.W.B included in FRONT PANEL ASSY.

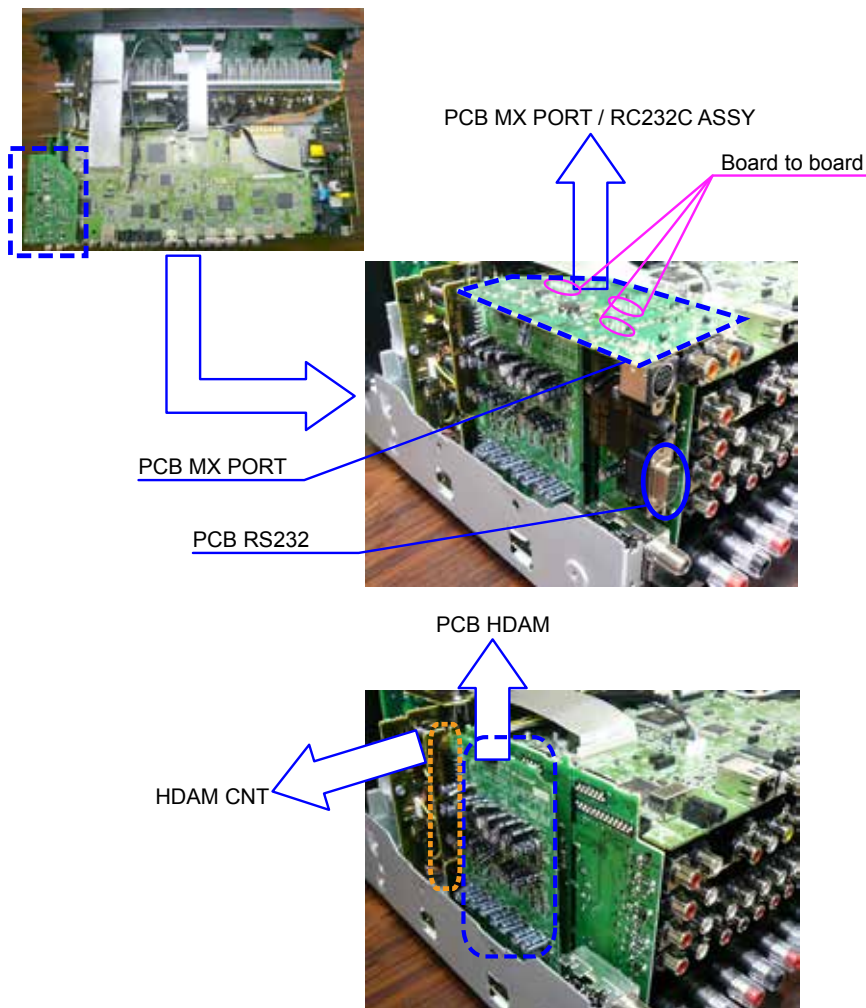
## 2. PCB MX PORT/RS232C/HDAM CNT/HDAM

Proceeding : **TOP COVER** → **BACK CHASSIS** → **PCB MX PORT/PCB RS232C**  
 → **PCB HDAM CNT** → **PCB HDAM**

(1) Remove the screws.



(2) Disconnect the connector board.

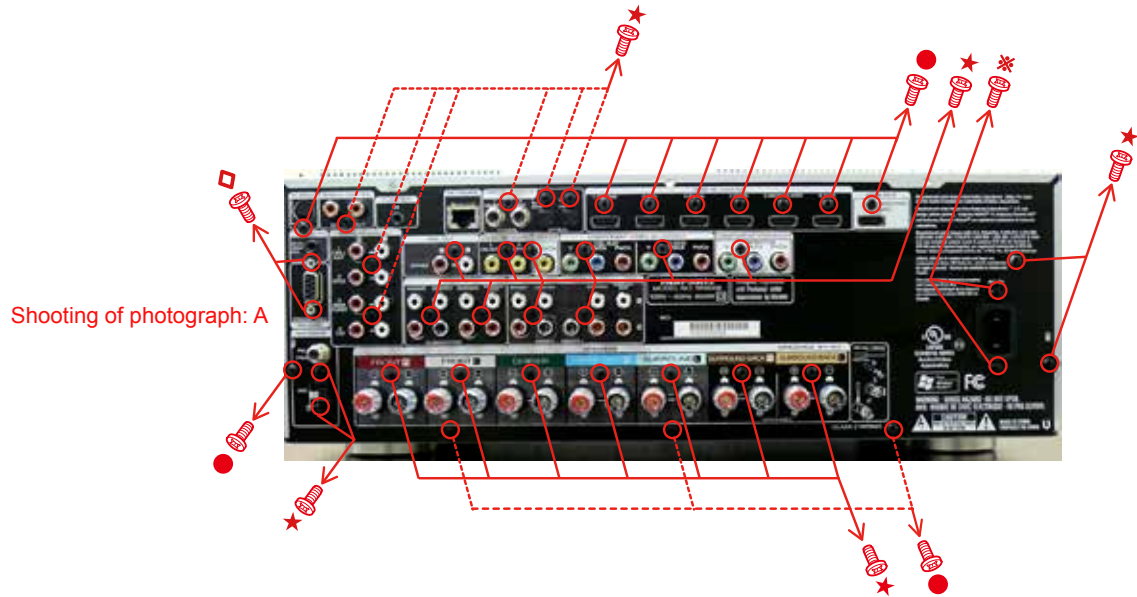


Please refer to "EXPLODED VIEW" for the disassembly method of PCB RC5\_MX, RS232, HDAM\_CNT and HDAM.

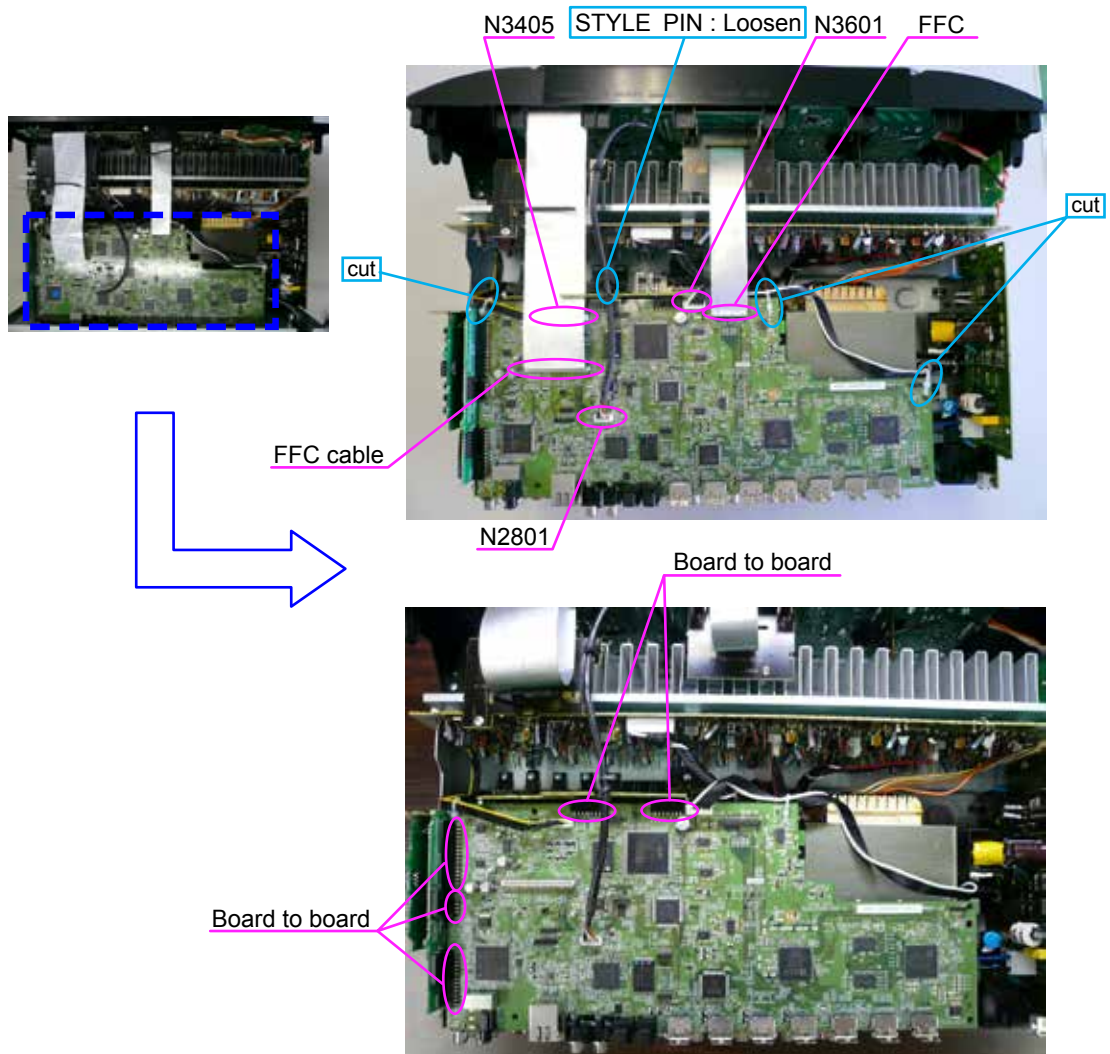
### 3. PCB HDMI

Proceeding : **TOP COVER** → **BACK CHASSIS** → **PCB MX PORT/PCB RS232C** → **PCB HDMI**

(1) Remove the screws.



(2) Cut the wire clamp band, then disconnect the connector wires and FFC, disconnect the connector board and HOLDER.



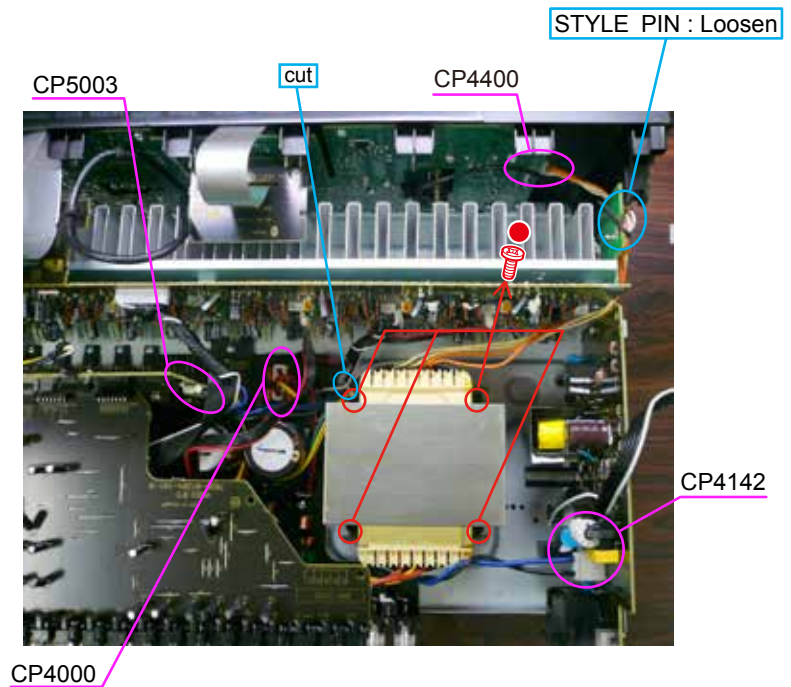
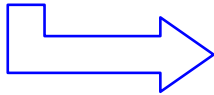
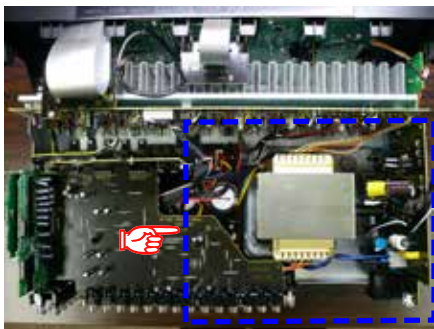
## 4. POWER TRANS MAIN

Proceeding : **TOP COVER** → **BACK CHASSIS** → **PCB MX PORT/PCB RS232C**  
→ **PCB HDMI** → **POWER TRANS MAIN**

(1) Remove the "PCB MX PORT/PCB RC232C" and "PCB HDMI".



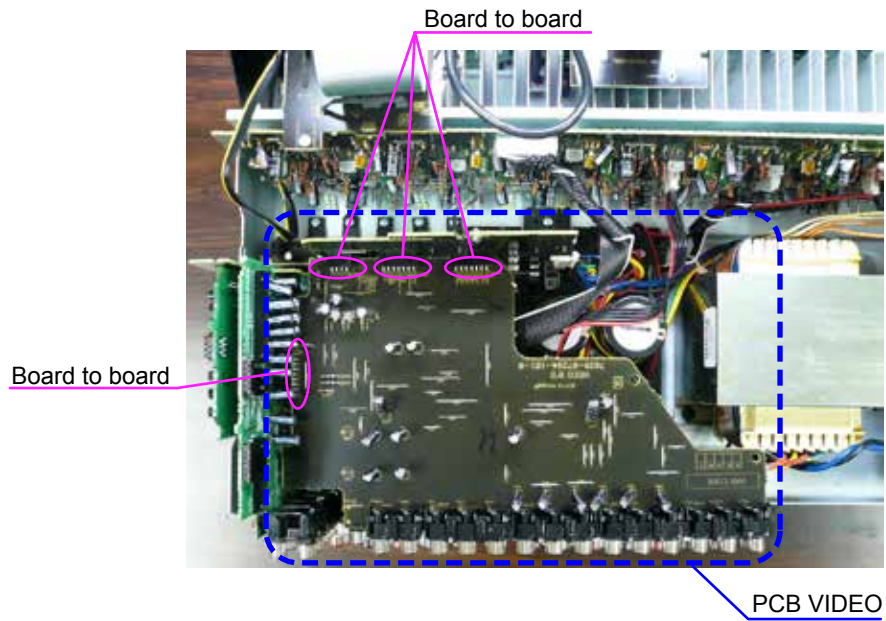
(1) Cut the wire clamp band, then disconnect the connector and FFC, then disconnect the connector board and HOLDER.



## 5. PCB VIDEO

Proceeding : **TOP COVER** → **BACK CHASSIS** → **PCB MX PORT/PCB RS232C** → **PCB HDIM** → **PCB VIDEO**

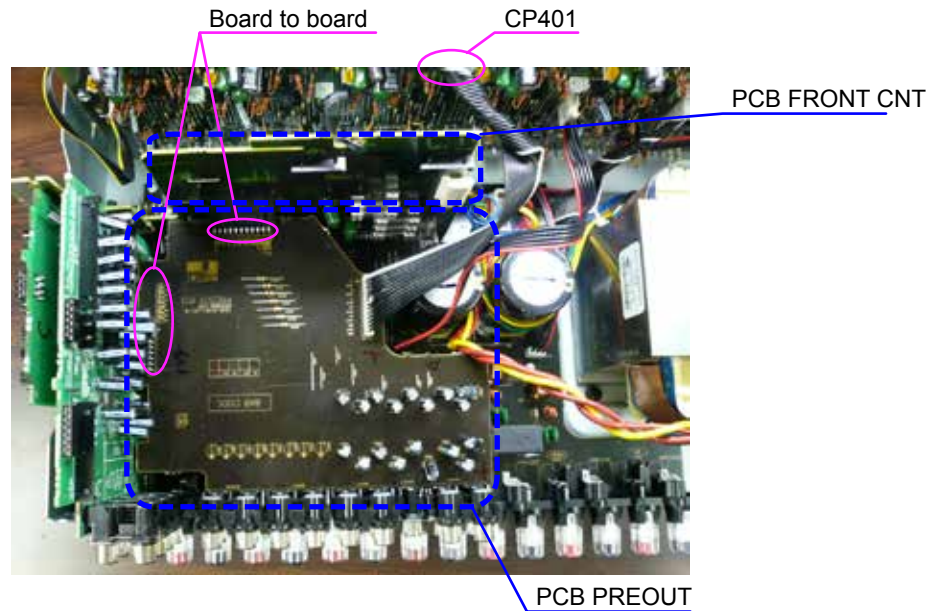
(1) Disconnect the connector board.



## 6. PCB RECOUT

Proceeding : **TOP COVER** → **BACK CHASSIS** → **PCB MX PORT/PCB RS232C**  
→ **PCB HDIM** → **PCB VIDEO** → **PCB PREOUT**

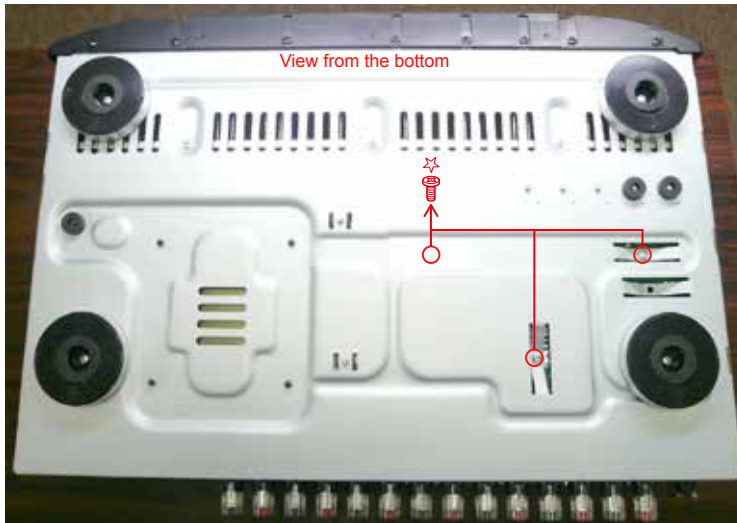
(1) Disconnect the connector wire and disconnect the connector board.



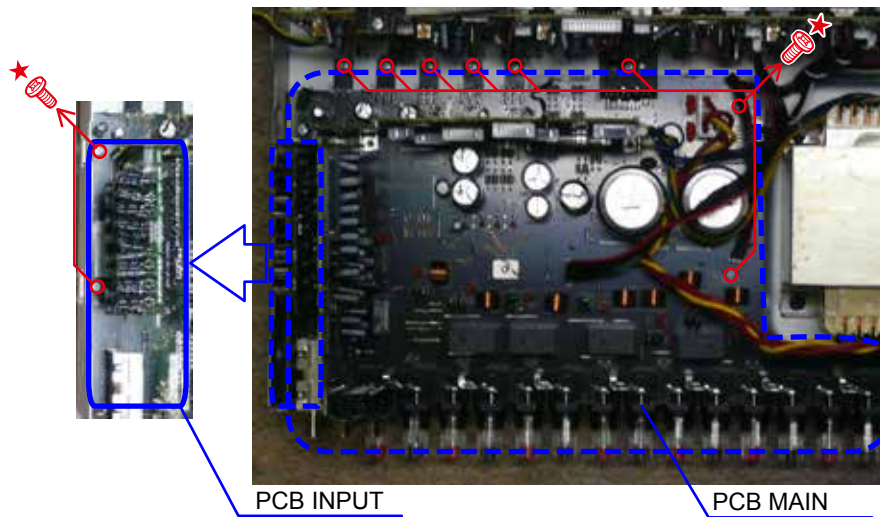
## 7. PCB MAIN ASSY

Proceeding : **TOP COVER** → **BACK CHASSIS** → **PCB MX PORT/PCB RS232C** → **PCB HDMI**  
→ **PCB VIDEO** → **PCB PREOUT** → **PCB SMPS** → **PCB MAIN ASSY**

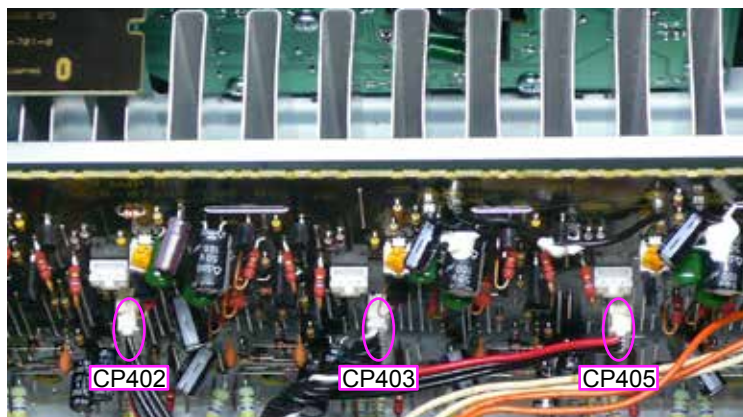
(1) Remove the screws.



(2) Remove the screws.



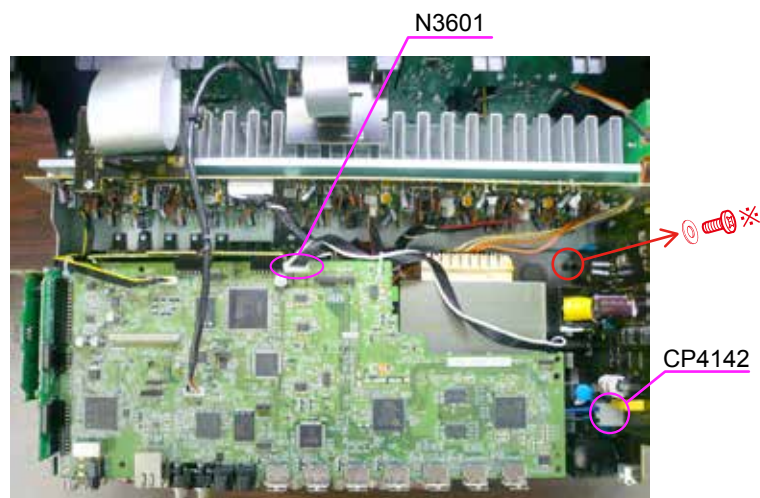
(3) Disconnect the connector wire.



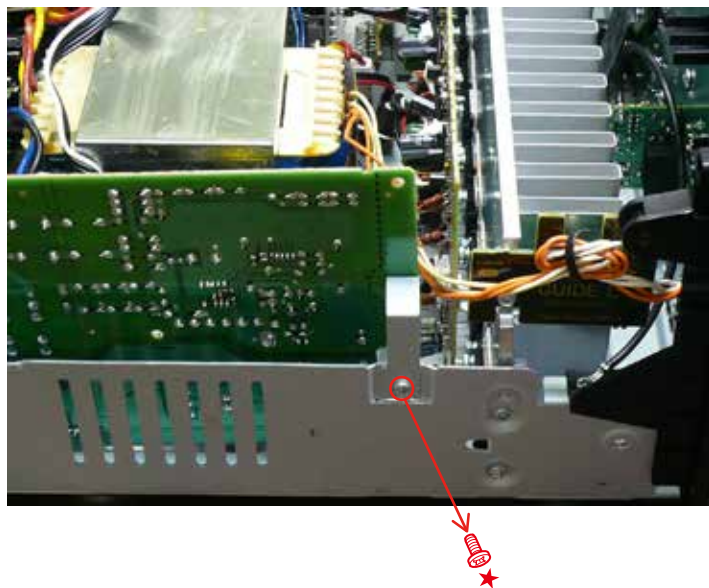
## 8. PCB SMPS

Proceeding : **TOP COVER** → **BACK CHASSIS** → **PCB MX PORT/PCB RS232C** → **PCB HDMI** → **PCB SMPS**

(1) Disconnect the connector wire and remove the screws.



(2) Remove the screw.

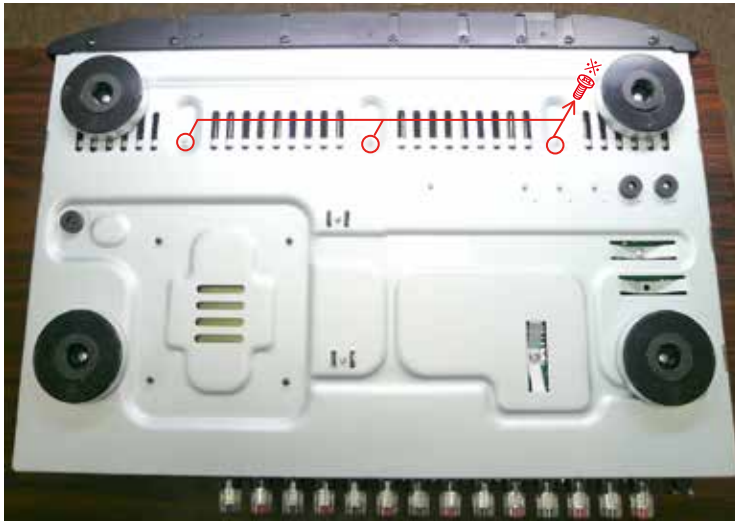


## 9. RADIATOR ASSY

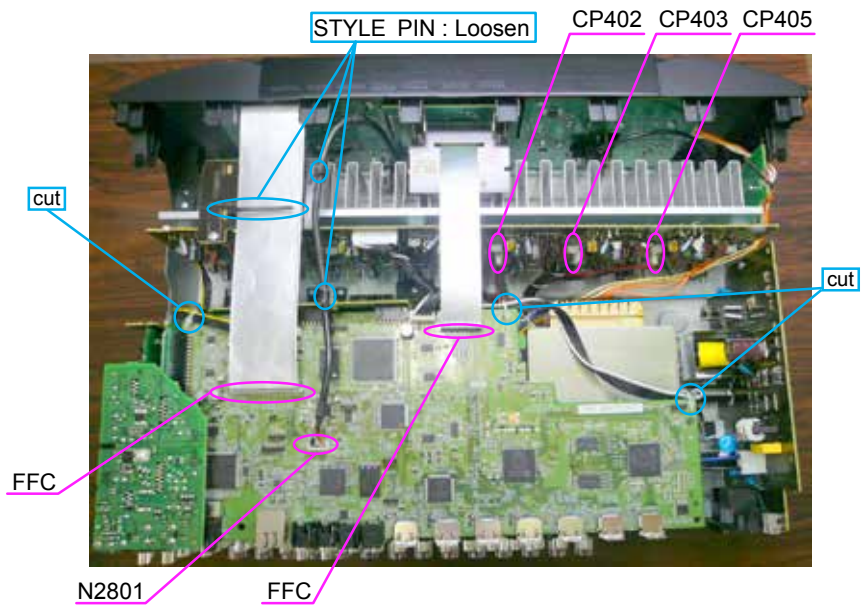
Proceeding : **TOP COVER** → **RADIATOR ASSY**

(1) Remove the screws.

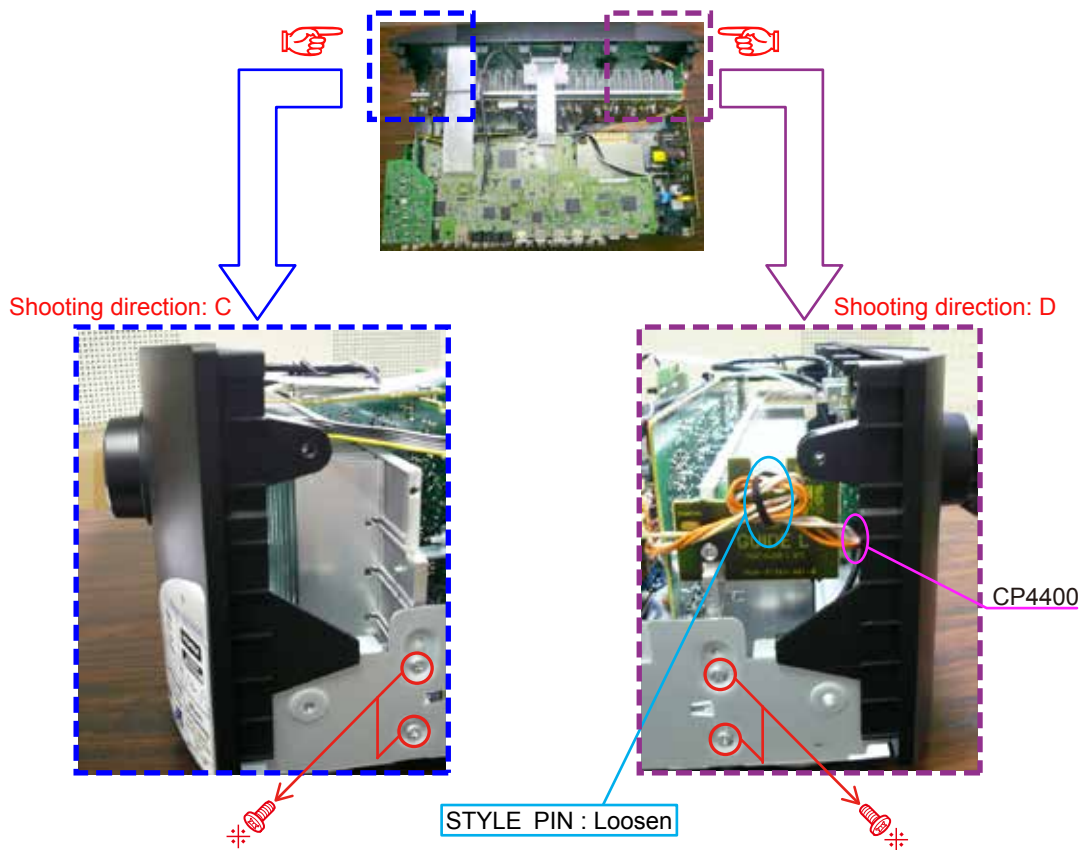
View from the bottom



(2) Cut the wire clamp band, then disconnect the connector wires and FFC. Remove the screws.



(3) Remove the screws.



Please refer to "EXPLODED VIEW" for the disassembly method of each PCB included in RADIATOR ASSY.

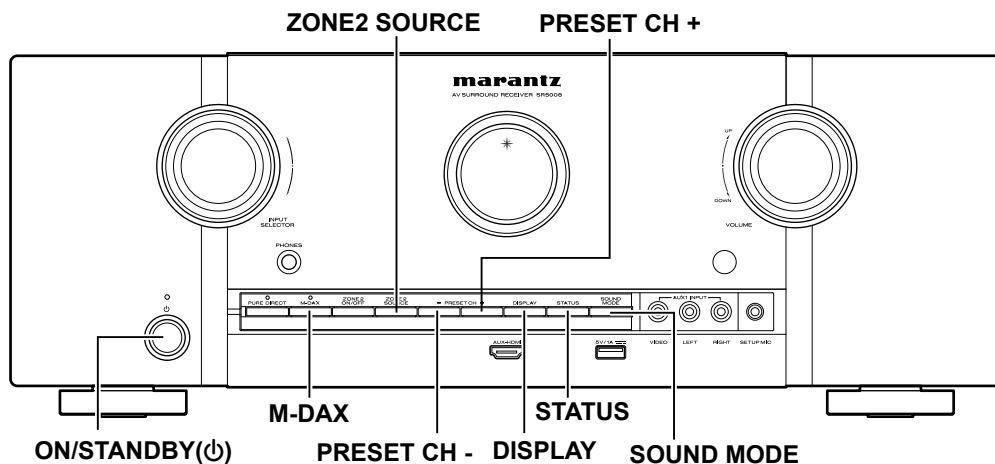


# SPECIAL MODE

## Special mode setting button

- ※ No.1-6,10,13: Press the "Power operation (⏻)" button to turn on the power while pressing both the buttons A, B and the button C at the same time.
- ※ No.7-9,11: Turn on the power, then press and hold down the A and B buttons for over 3 seconds.
- ※ No.12: Turn on the power, then press and hold down the A and B buttons for over 10 seconds.

No.	Mode	Button A	Button B	Button C	Contents
1	Version display (µcom/DSP Error Display)	DISPLAY	STATUS	-	Firmware versions such as Main or DSP are displayed in the FL Display. Errors are displayed when they occur. (Refer to 24 page)
2	User Initialization mode (Installer Setup settings are not initialized.)	M-DAX	ZONE2 SOURCE	-	Backup data initialization is carried out. (Installer Setup settings are not initialized.)
3	Factory Initialization mode (Installer Setup settings are also initialized.)	PRESET-	PRESET+	-	Backup data initialization is carried out. (Installer Setup settings are also initialized.)
4	Mode for switching tuner frequency step (U/N model only)	PRESET-	DISPLAY	-	Change tuner frequency step to FM:50kHz / 200kHz Change tuner frequency step to AM:10kHz/9kHz (U model only)
5	PANEL/REMOTE LOCK Selection mode	DISPLAY	M-DAX	-	Selects to reject operations through panel buttons and the master volume knob on the main unit and operations via the remote control.
6	Service Related Selection mode	ZONE2 SOURCE	STATUS	-	Selects the "Diagnostic mode" or "Displaying the protection history mode".
7	Memory Backup	PRESET-	PRESET+	-	Backup of DUAL BACKUP MEMORY is performed. (Refer to 49 page)
8	Memory Recovery	PRESET+	DISPLAY	-	Recovery of DUAL BACKUP MEMORY is performed. (Refer to 49 page)
9	Memory Backup Clear	PRESET-	SOUND MODE	-	Backup of DUAL BACKUP MEMORY is cleared. (Refer to 49 page)
10	Protection pass mode	DISPLAY	STATUS	SOUND MODE	Turns the power on with the Protection detection disabled.
11	DM860A Reboot mode	PRESET+	STATUS	-	Restarts DM860.
12	NETWORK Initialization mode	PRESET-	DISPLAY	-	Initializes NETWORK related settings.
13	Installer Setup mode	STATUS	SOUND MODE	-	Access the Remote Maintenance mode via the internet. Installer Setup is displayed on GUI/Option Menu. ※ Refer to AVR_RemoteMaintenance_.pdf of SDI.



# 1. $\mu$ com/DSP Version display mode

## 1.1. Operation specifications

### $\mu$ com/DSP version display mode:

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

#### Starting up:

Press the "ON/STANDBY (⏻)" button to turn on the power while pressing the "DISPLAY" and "STATUS" buttons. Now, press the "STATUS" 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 GUI.

## 1.2. Display Order

Error information(Refer to 1.3. Error display) → ① Model destination information → ② Firmware Package Version → ③ Main  $\mu$ -com / FBL(1st Boot Loader) Version → ④ DSP ROM Version → ⑤ Audio PLD Version → ⑥ GUI SFLASH Version → ⑦ Ethernet(DM860A) 1st Boot Loader, Hardware ID → ⑧ Ethernet(DM860A) 2nd Boot Loader, Rhapsody Flag → ⑨ Ethernet(DM860A) IMAGE → ⑩ Ethernet(DM860A)MAC ADDRESS information

### ① Model destination information :

SR5008 U model

FLD	S	R	5	0	0	8	U
	S	N	-	*	*	*	*
		*	*	*	*	*	*

SR5008 N model

FLD	S	R	5	0	0	8	N
	S	N	-	*	*	*	*
		*	*	*	*	*	*

SR5008 K model

FLD	S	R	5	0	0	8	K
	S	N	-	*	*	*	*
		*	*	*	*	*	*

### ⑥ GUI S-FLASH Version :

SR5008 U model

FLD	G	U	I				
	2	0	2	1	*	*	*

SR5008 N model

FLD	G	U	I				
	2	0	2	1	*	*	*

SR5008 K model

FLD	G	U	I				
	2	0	2	5	*	*	*

### ② Firmware Package Version :

FLD	P	A	C	K	A	G	E
					0	0	0

### ⑦ Ethernet(DM860A) 1st Boot Loader, Hardware ID :

FLD	N	E	T	F	B	L	
	*	*	*	*	*	*	
					-	A	A

### ③ Main $\mu$ -com / FBL(1st Boot Loader) Version :

FLD	M	A	I	N			
	*	*	*	*	*	*	*
	E	L	-	*	*	.	*

### ⑧ Ethernet(DM860A) 2nd Boot Loader, Rhapsody Flag :

FLD	N	E	T	S	B	L	
	*	*	*	*	*	*	*
	*	*	*	*	*	-	0

### ④ DSP ROM Version :

FLD	D	S	P				
			*	*	.	*	*

### ⑨ Ethernet(DM860A) IMAGE :

FLD	N	E	T	I	M	G	
	*	*	*	*	*	*	*
	*	*	*	*	*		

### ⑤ Audio PLD Version :

FLD	A	.	P	L	D		
			*	*	.	*	*

### ⑩ Ethernet(DM860A) MAC ADDRESS information :

FLD	N	E	T	M	A	C	
		*	*	*	*	*	*
	-	*	*	*	*	*	*

### 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.

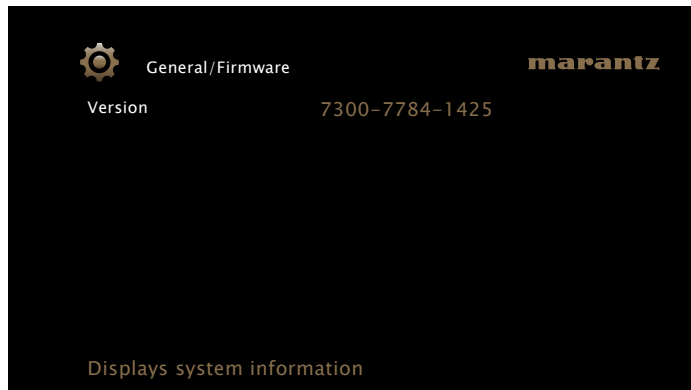
Condition	Status	FL Display	Trouble shooting																		
① Firm Check NG	Compared with the destination setting on the board. This is displayed when the model name or destination information written into the firmware does not match. (※)	<table border="1"> <tr><td>F</td><td>I</td><td>R</td><td>M</td><td></td><td></td></tr> <tr><td>E</td><td>R</td><td>R</td><td>O</td><td>R</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	F	I	R	M			E	R	R	O	R								<ul style="list-style-type: none"> <li>•Please check the destination-resistors (R773/R776, HDMI B'D).</li> <li>•Please write the firmware of correct destination.</li> </ul>
F	I	R	M																		
E	R	R	O	R																	
② DIR NG	No response from DIR	<table border="1"> <tr><td>D</td><td>I</td><td>R</td><td></td><td></td><td></td></tr> <tr><td>E</td><td>R</td><td>R</td><td>O</td><td>R</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td><td>1</td></tr> </table>	D	I	R				E	R	R	O	R						0	1	<ul style="list-style-type: none"> <li>•Please check DIR (IC21, HDMI B'D) and around circuits.</li> </ul>
D	I	R																			
E	R	R	O	R																	
				0	1																
③ DSP NG	When DSP code boot is performed, the DSP FLAG0 port does not change to "H" even if DSP reset is executed.	<table border="1"> <tr><td>D</td><td>S</td><td>P</td><td></td><td></td><td></td></tr> <tr><td>E</td><td>R</td><td>R</td><td>O</td><td>R</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td><td>1</td></tr> </table>	D	S	P				E	R	R	O	R						0	1	<ul style="list-style-type: none"> <li>•Please check DSP (U8, HDMI B'D) and around circuits.</li> </ul>
	D	S	P																		
	E	R	R	O	R																
					0	1															
	Before DSP command is issued, the DSP BUSY port does not change to "L".	<table border="1"> <tr><td>D</td><td>S</td><td>P</td><td></td><td></td><td></td></tr> <tr><td>E</td><td>R</td><td>R</td><td>O</td><td>R</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td><td>2</td></tr> </table>	D	S	P				E	R	R	O	R						0	2	
	D	S	P																		
E	R	R	O	R																	
				0	2																
When DSP data read is performed, executing WRITE="L" does not result in ACK="H".	<table border="1"> <tr><td>D</td><td>S</td><td>P</td><td></td><td></td><td></td></tr> <tr><td>E</td><td>R</td><td>R</td><td>O</td><td>R</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td><td>3</td></tr> </table>	D	S	P				E	R	R	O	R						0	3		
D	S	P																			
E	R	R	O	R																	
				0	3																
When DSP data read is performed, executing REQ="L" does not result in ACK="L".	<table border="1"> <tr><td>D</td><td>S</td><td>P</td><td></td><td></td><td></td></tr> <tr><td>E</td><td>R</td><td>R</td><td>O</td><td>R</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td><td>4</td></tr> </table>	D	S	P				E	R	R	O	R						0	4		
D	S	P																			
E	R	R	O	R																	
				0	4																
When DSP data writing is performed, executing WRITE="H" does not result in ACK="H".	<table border="1"> <tr><td>D</td><td>S</td><td>P</td><td></td><td></td><td></td></tr> <tr><td>E</td><td>R</td><td>R</td><td>O</td><td>R</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td><td>5</td></tr> </table>	D	S	P				E	R	R	O	R						0	5		
D	S	P																			
E	R	R	O	R																	
				0	5																
When DSP data writing is performed, executing REQ="L" does not result in ACK="L".	<table border="1"> <tr><td>D</td><td>S</td><td>P</td><td></td><td></td><td></td></tr> <tr><td>E</td><td>R</td><td>R</td><td>O</td><td>R</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td><td>6</td></tr> </table>	D	S	P				E	R	R	O	R						0	6		
D	S	P																			
E	R	R	O	R																	
				0	6																
④ IP SCALER NG	An error occurred in testing writing data between IP SCALER and DRR.	<table border="1"> <tr><td>I</td><td>P</td><td></td><td></td><td></td><td></td></tr> <tr><td>S</td><td>C</td><td>A</td><td>L</td><td>E</td><td>R</td></tr> <tr><td>E</td><td>R</td><td>R</td><td></td><td>0</td><td>1</td></tr> </table>	I	P					S	C	A	L	E	R	E	R	R		0	1	<ul style="list-style-type: none"> <li>•Please check IP SCALER (U1601, HDMI B'D) and around circuits.</li> </ul>
	I	P																			
S	C	A	L	E	R																
E	R	R		0	1																
Testing writing data between IP SCALER and DRR resulted in no response.	<table border="1"> <tr><td>I</td><td>P</td><td></td><td></td><td></td><td></td></tr> <tr><td>S</td><td>C</td><td>A</td><td>L</td><td>E</td><td>R</td></tr> <tr><td>E</td><td>R</td><td>R</td><td></td><td>0</td><td>2</td></tr> </table>	I	P					S	C	A	L	E	R	E	R	R		0	2		
I	P																				
S	C	A	L	E	R																
E	R	R		0	2																
⑤ EEPROM NG	Error occurs in EEPROM checksum. (** * is a block address number.)	<table border="1"> <tr><td>E</td><td>2</td><td>P</td><td>R</td><td>O</td><td>M</td></tr> <tr><td>E</td><td>R</td><td>R</td><td>O</td><td>R</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>*</td><td>*</td></tr> </table>	E	2	P	R	O	M	E	R	R	O	R						*	*	
E	2	P	R	O	M																
E	R	R	O	R																	
				*	*																

Status	FL Display																		
※ 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 upper right column, as shown on the right.	<table border="1"> <tr><td>M</td><td>A</td><td>I</td><td>N</td><td></td><td>▲</td></tr> <tr><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td></tr> <tr><td>B</td><td>L</td><td>-</td><td>*</td><td>*</td><td>*</td></tr> </table>	M	A	I	N		▲	*	*	*	*	*	*	B	L	-	*	*	*
	M	A	I	N		▲													
	*	*	*	*	*	*													
	B	L	-	*	*	*													
<table border="1"> <tr><td>A</td><td>.</td><td>P</td><td>L</td><td>D</td><td>▲</td></tr> <tr><td></td><td></td><td></td><td></td><td>*</td><td>*</td></tr> </table>	A	.	P	L	D	▲					*	*							
A	.	P	L	D	▲														
				*	*														
<table border="1"> <tr><td>D</td><td>S</td><td>P</td><td></td><td></td><td>▲</td></tr> <tr><td></td><td></td><td></td><td></td><td>*</td><td>*</td></tr> </table>	D	S	P			▲					*	*							
D	S	P			▲														
				*	*														
<table border="1"> <tr><td>G</td><td>U</td><td>I</td><td></td><td></td><td>▲</td></tr> <tr><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td></tr> </table>	G	U	I			▲	*	*	*	*	*	*							
G	U	I			▲														
*	*	*	*	*	*														

### 1.4. Version display on the Setup Menu

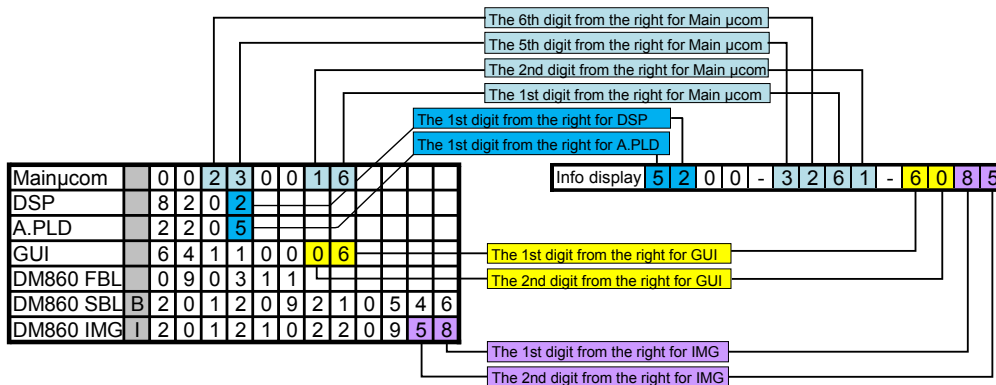
Use the following procedure to display the firmware version.

- (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.



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

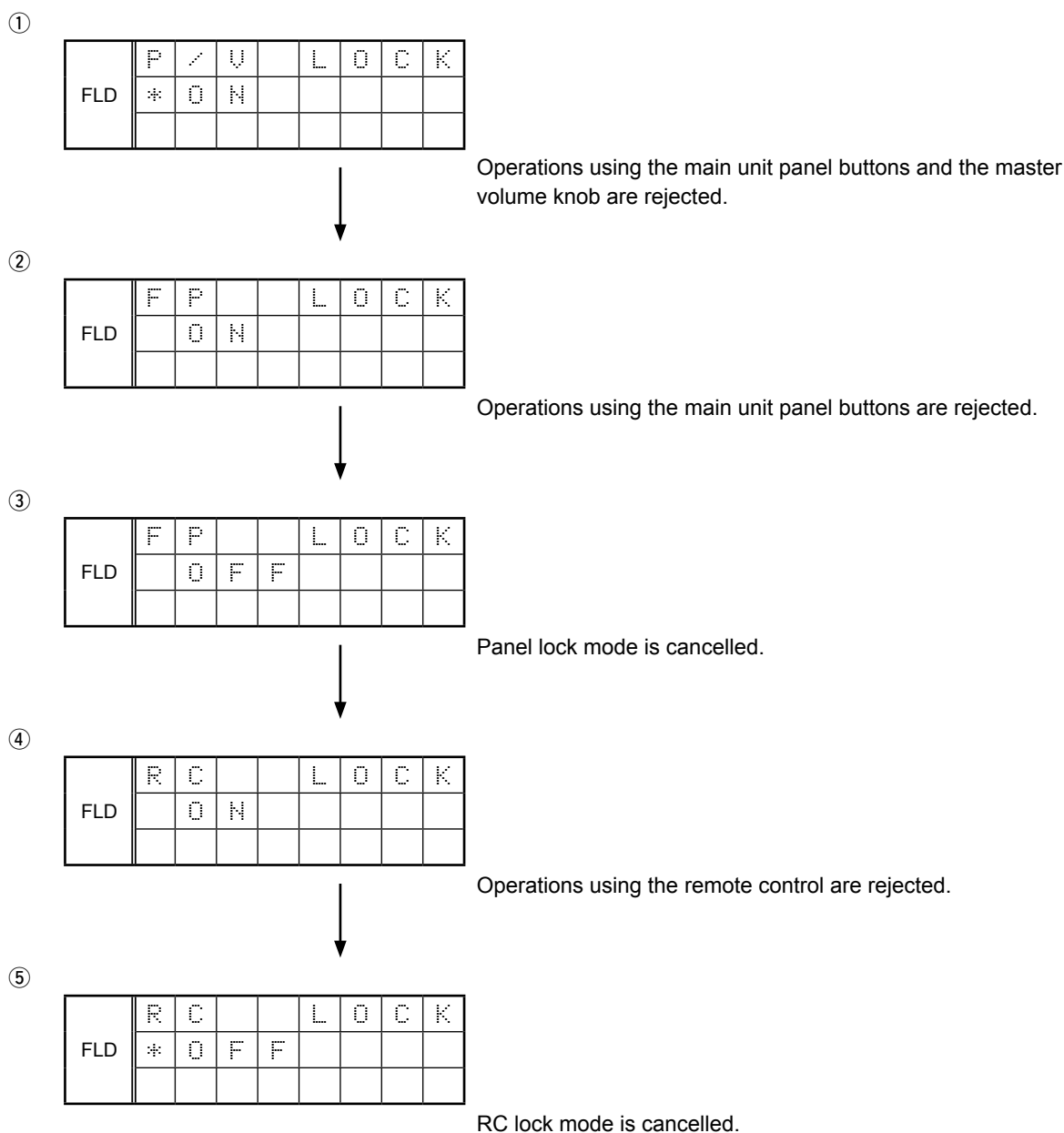
In this mode, you can switch between the PANEL LOCK MODE and the Mode for preventing remote control acceptance.

### 2.2. Starting up

Press the "ON/STANDBY (⏻)" button to turn on power while pressing the "DISPLAY" and "M-DAX" buttons. Press the "PRESET CH +" button to select the mode and the "STATUS" button to confirm the selection.

### 2.3. Mode selection method and how each mode is displayed

Each time you press the "PRESET CH +" button, the mode displayed on the FL DISPLAY changes. While the desired mode name is displayed on the FL DISPLAY, press the "STATUS" button. The set is restarted and the selected mode takes effect. The currently set item is marked with "\*".



### 3. Service Related Selection mode

#### 3.1. Behavior specifications

In this mode, you can switch between the Diagnostic mode (SERVICE CHECK), the Displaying the protection mode (PROTECTION) and the 232C clear mode (RS232C RESET).

#### 3.2. Starting up

Press the "ON/STANDBY (⏻)" button to turn on power while pressing the "ZONE2 SOURCE" and "STATUS" buttons. Press the "PRESET CH +" button to select the mode and press the "STATUS" button to restart the set and make the setting take effect.

①

FLD	1	S	E	R	V	I	C	E
		C	H	E	C	K		

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

FLD	2	P	R	O	T	E	C	T

The protection history can be checked.

③

FLD	3		R	S	2	3	2	C
			R	E	S	E	T	

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

#### 3.3. Canceling diagnostic mode

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

### 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 "Power operation (b)" button to turn on power while pressing the "ZONE2 SOURCE" and "STATUS" buttons.

Select "1. SERVICE CHECK" and press "STATUS" to start the set in the Diagnostic mode.

The "\_\_\_" appears on the lower row of FL display section.

#### 3.4.3. Canceling diagnostic mode

Turn off the power by pressing the "Power operation (b)" button.

#### 3.4.4 Selecting items

Press ① button to switch between video items and audio items.

Press ② or ③ button to select previous or next items.

This unit			remote controller		
① audio ⇄ video	② previous	③ next	① audio ⇄ video	② previous	③ next
DISPLAY	PRESET CH-	PRESET CH+	SLEEP	CURSOR LEFT	CURSOR RIGHT

#### 3.4.5 Video system confirmation items

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

Confirmation item	FL display	settings	Contents of confirmationRemarks
1 Analog Video (signal) Pass <b>fig.1</b>	Upper   V 0 1 V I D E O Lower   * * * . * d B	Input Source : CBL/SAT Video Convert(IP Scaler) : OFF, All sources MAIN ZONE ON ZONE2 ON	·CVBS input ⇒ CVBS output ·Component input ⇒ Component output (※ Input source can be switched.)
2 video convert (analog or HDMI ⇒ HDMI) <b>fig.2</b>	Upper   V 0 2 C O N V . Lower   * * * . * d B	Input Source : CBL/SAT Video Convert(IP Scaler) : ON, All sources IP Scaler : "Analog&HDMI", All sources Resolution : "Auto", All sources MAIN ZONE ON ZONE2 OFF	·CVBS input ⇒ IP Scaler ⇒ HDMI output ·Component input ⇒ IP Scaler ⇒ HDMI output ·HDMI input ⇒ IP Scaler ⇒ HDMI output ·ETHERNET input ⇒ IP Scaler ⇒ HDMI output (※ Input source can be switched.)
3 HDMI pass (Main) <b>fig.3</b>	Upper   V 0 3 H D M I Lower   * * * . * d B	Input Source : CBL/SAT Source of Video Convert(IP Scaler) : OFF, All sources MAIN ZONE ON ZONE2 OFF	·HDMI input ⇒ HDMI output ·Front HDMI input ⇒ HDMI output (※ Input source can be switched.)
4 HDMI CEC <b>fig.4</b>	Upper   V 0 4 C E C Lower   * * * . * d B	Input Source : CBL/SAT HDMI Control : ON MAIN ZONE ON ZONE2 OFF	·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. ·To check ARC path, switch the input source to "TV AUDIO". (※ Input source can be switched.)
5 HDMI audio (audio: AVR) <b>fig.5</b>	Upper   V 0 5 H - A V R Lower   * * * . * d B	Input Source : CBL/SAT HDMI Control : OFF HDMI Audio : AVR	·HDMI input(PCM , DolbyDigital , DTS) ⇒ Speaker output ·HDMI input(HD audio) ⇒ Speaker output (※ Input source can be switched.)
6 HDMI audio (audio: TV) <b>fig.6</b>	Upper   V 0 6 H - T V Lower   * * * . * d B	HDMI Audio : TV	·HDMI input(PCM , DolbyDigital , DTS) ⇒ HDMI output (audio output from connected TV) (※ Input source can be switched.)
7 GUI menu <b>fig.7</b>	Upper   V 0 7 M E N U Lower   * * * . * d B	Input Source : CBL/SAT Video Convert(IP Scaler) : ON, All sources IP Scaler : "Analog&HDMI", All sources Resolution : "AUTO", All sources Setup Menu ON MAIN ZONE ON ZONE2 OFF	·GUI display ⇒ HDMI output (※ Input source can be switched.)

### 3.4.6 Audio system confirmation items

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

Confirmation item		FL display		settings	Contents of confirmationRemarks
1	analog pass <b>fig.8</b>	Upper Lower	A 0 1 A N L G * * * . * d B	Input Source: CBL/SAT Input Mode: ANALOG(fixed) Sound mode: DIRECT Amp assign: Surround Back MAIN_ZONE: ON ZONE2: OFF	·Analog input ⇒ Speaker output ·Analog input ⇒ Preout output (FRONT L,R) (* Input source can be switched.)
2	digital <b>fig.9</b>	Upper Lower	A 2 D I G . * * * . * d B	Input Source : CBL/SAT Input Mode : DIGITAL(fixed) Sound mode: MULTI CH STEREO Amp assign : Surround Back Speaker Config: all Speakers =Small SW=Yes	·Digital input ⇒ Speaker output ·Digital input ⇒ Preout output (FRONT L,R SW, CENTER, SURROUND L/R, SURROUND BACK L/R) (* Input source can be switched.)
3	digital (ZONE2) <b>fig.10</b>	Upper Lower	A 0 3 Z 2 D I G * * * . * d B	Input Source : NETWORK(fixed) Input Mode : Auto Sound mode: STEREO Amp assign : ZONE2 MAIN_ZONE: ON ZONE2: ON	·Digital(PCM) input ⇒ Speaker output (ZONE2 L, R) ·Digital(PCM) input ⇒ Preout output (ZONE2 L, R)
4	HDMI <b>fig.11</b>	Upper Lower	A 0 5 H D M I * * * . * d B	Input Source : CBL/SAT Input Mode : HDMI(fixed) Sound mode: STEREO Amp assign : Surround Back MAIN_ZONE: ON ZONE2: OFF	·HDMI input ⇒ Speaker output ·HDMI input ⇒ Preout output (FRONT L,R) (* Input source can be switched.)
5	analog A/D (MAIN) <b>fig.12</b>	Upper Lower	A 0 6 A D * * * . * d B	Input Source : CBL/SAT Input Mode : Analog(fixed) Sound mode: MULTI CH STEREO Amp assign : Surround Back Speaker Config: all Speaker=Small/ SW=Yes MAIN_ZONE: ON	·Analog input ⇒ Speaker output ·Analog input ⇒ Pre OUT (SW, CENTER, SURROUND L/R, SURROUND BACK L/R) (* Input source can be switched.)
6	analog amp assign (Amp assign: ZONE2) <b>fig.13</b>	Upper Lower	A 0 7 Z 2 A S S * * * . * d B	Input Source : CBL/SAT Input Mode : Auto Sound mode: STEREO Z2 Source : Source Amp assign : ZONE2 MAIN_ZONE: ON ZONE2: ON	·Analog input ⇒ Speaker output ·Analog input ⇒ Pre OUT (ZONE2 L,R) (* Input source can be switched.)
7	analog amp assign (amp assign: bi-amp) <b>fig.14</b>	Upper Lower	A 0 7 B i A M P * * * . * d B	Input Source : CBL/SAT Input Mode : Auto Sound mode: MULTI CH STEREO Amp assign : Bi-Amp MAIN_ZONE ON ZONE2 OFF	·Analog input ⇒ Speaker output (* Input source can be switched.)
8	front height <b>fig.15</b>	Upper Lower	A 0 7 F H * * * . * d B	Input Source : CBL/SAT Input Mode : Auto Sound mode: MULTI CH STEREO Amp assign : Front Height MAIN_ZONE ON ZONE2 OFF	·Analog input ⇒ Speaker output (* Input source can be switched.)
9	7.1CH Input Path <b>fig.16</b>	Upper Lower	A 1 9 7 . 1 I N * * * . * d B	Input Source : CBL/SAT Input Mode : 7.1CH INPUT Amp assign : Surround back all Speaker=Small SW=Yes MAIN_ZONE ON ZONE2 OFF	·7.1CH input ⇒ Speaker output (* Input source can be switched.)

**BLOCK DIAGRAM**

fig1:Analog Video (Signal) Pass

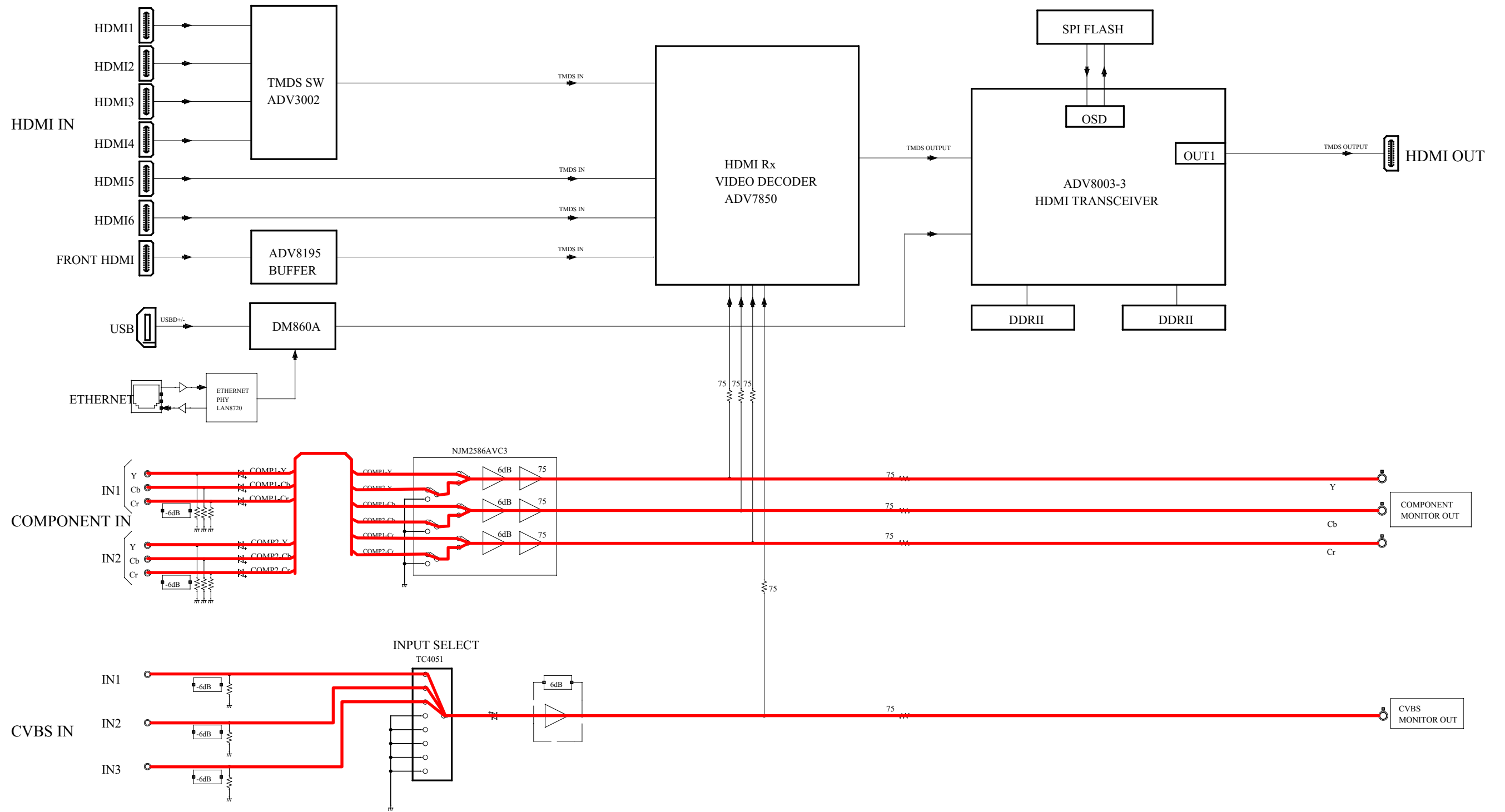


fig2: Analog or HDMI => HDMI

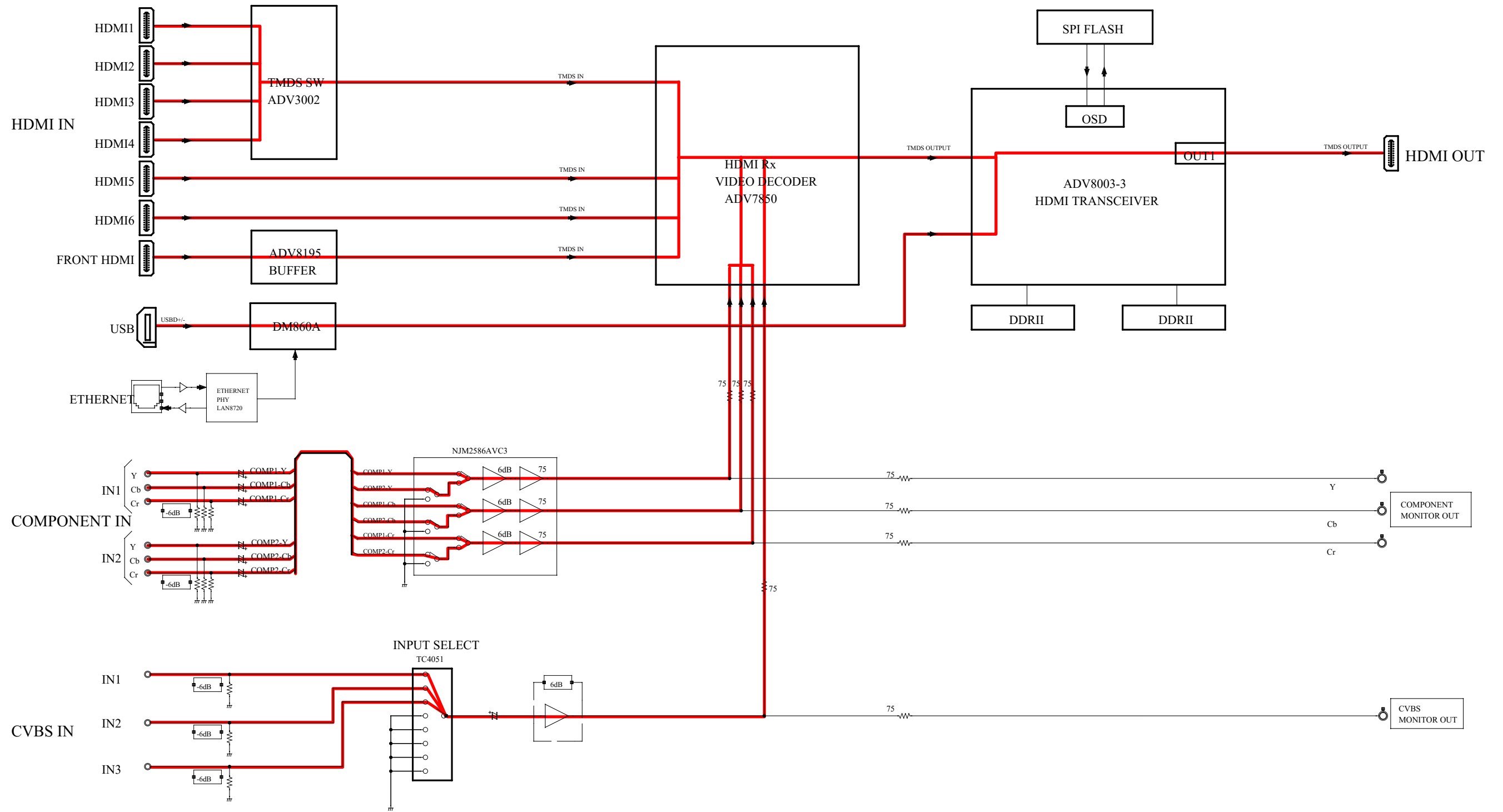


fig3:HDMI Pass (Main)

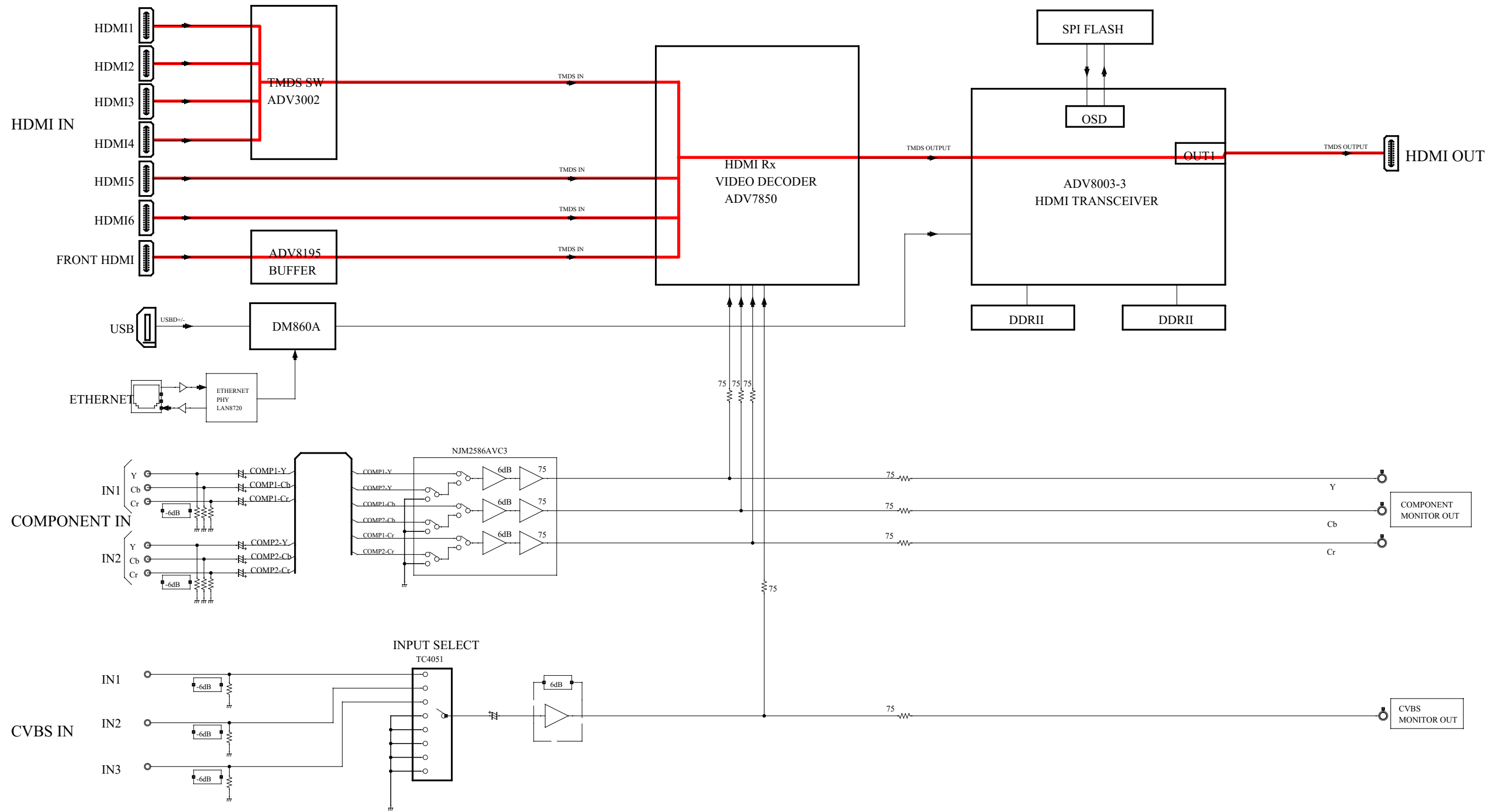


fig4:HDMI CEC

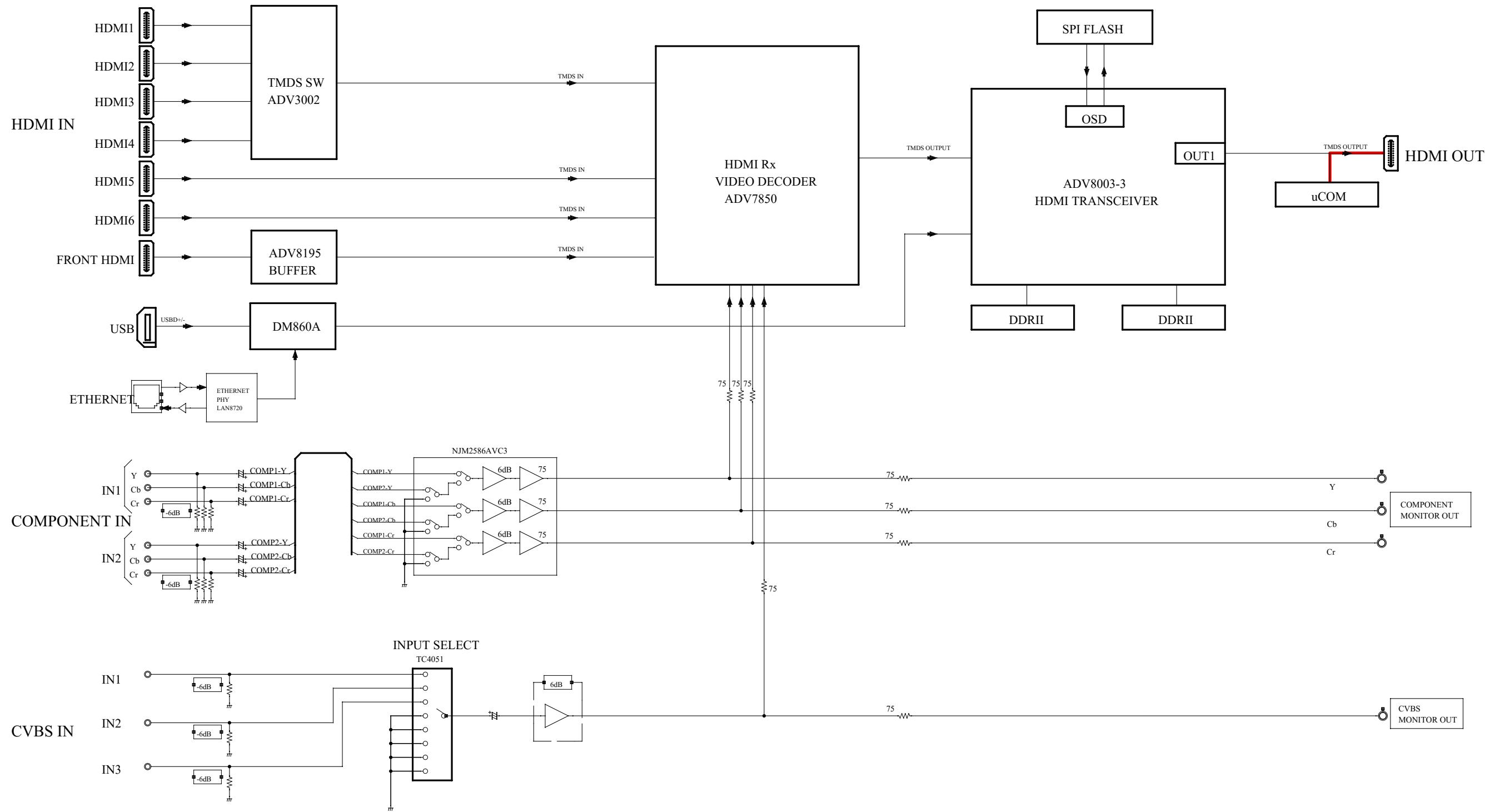


fig5 : HDMI audio (audio: AVR)

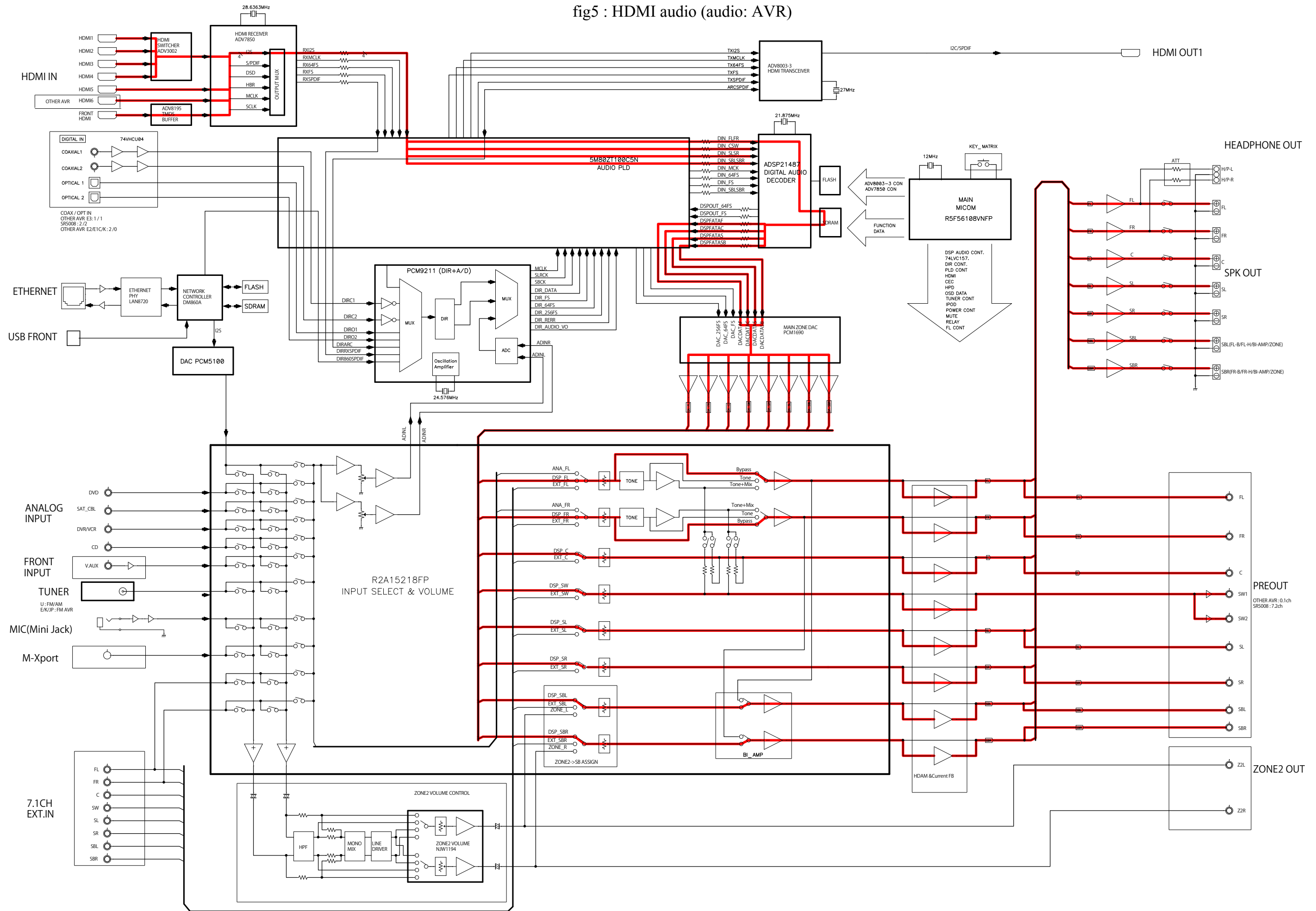


fig6 : HDMI audio (audio: TV)

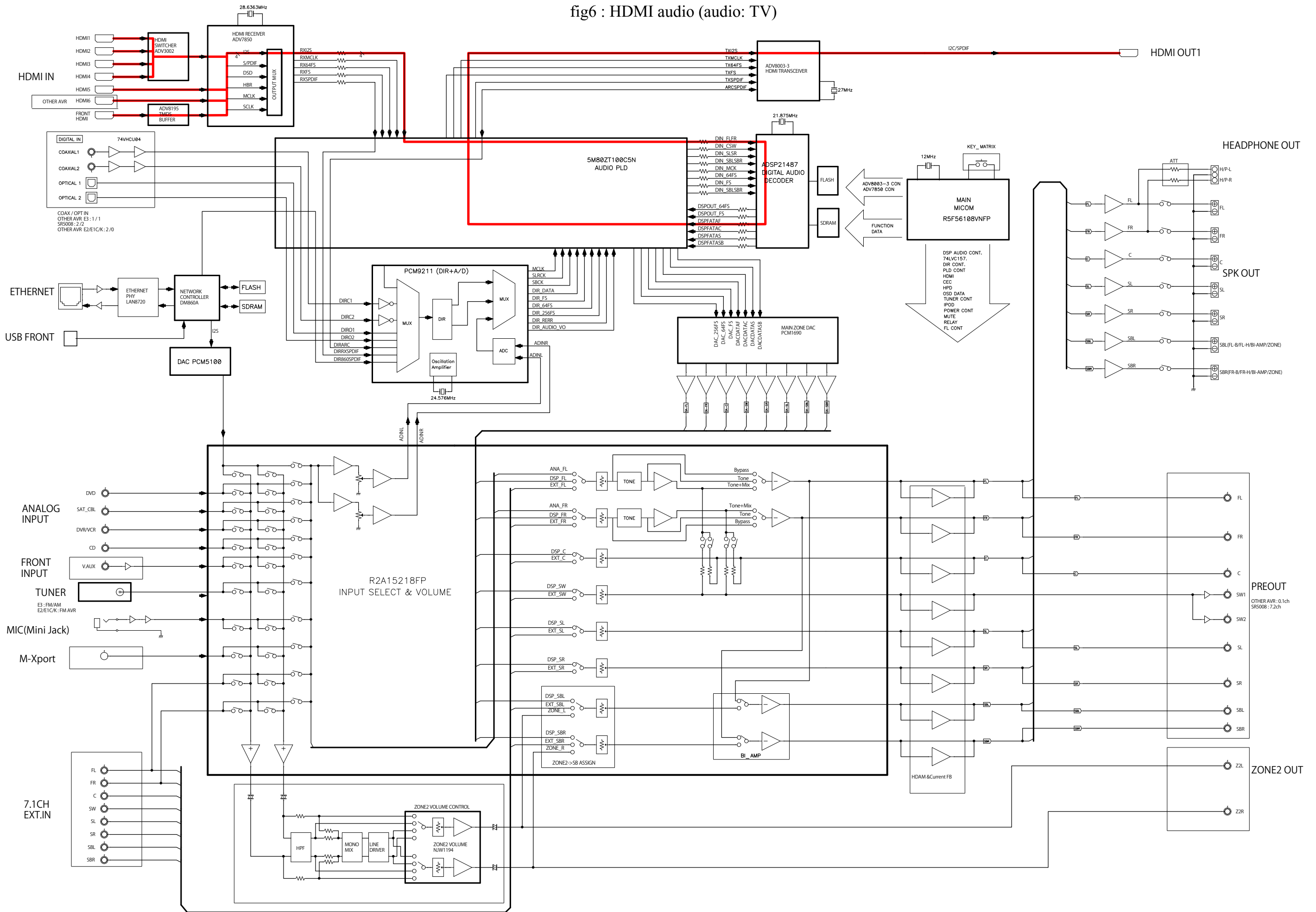


fig7:GUI menu

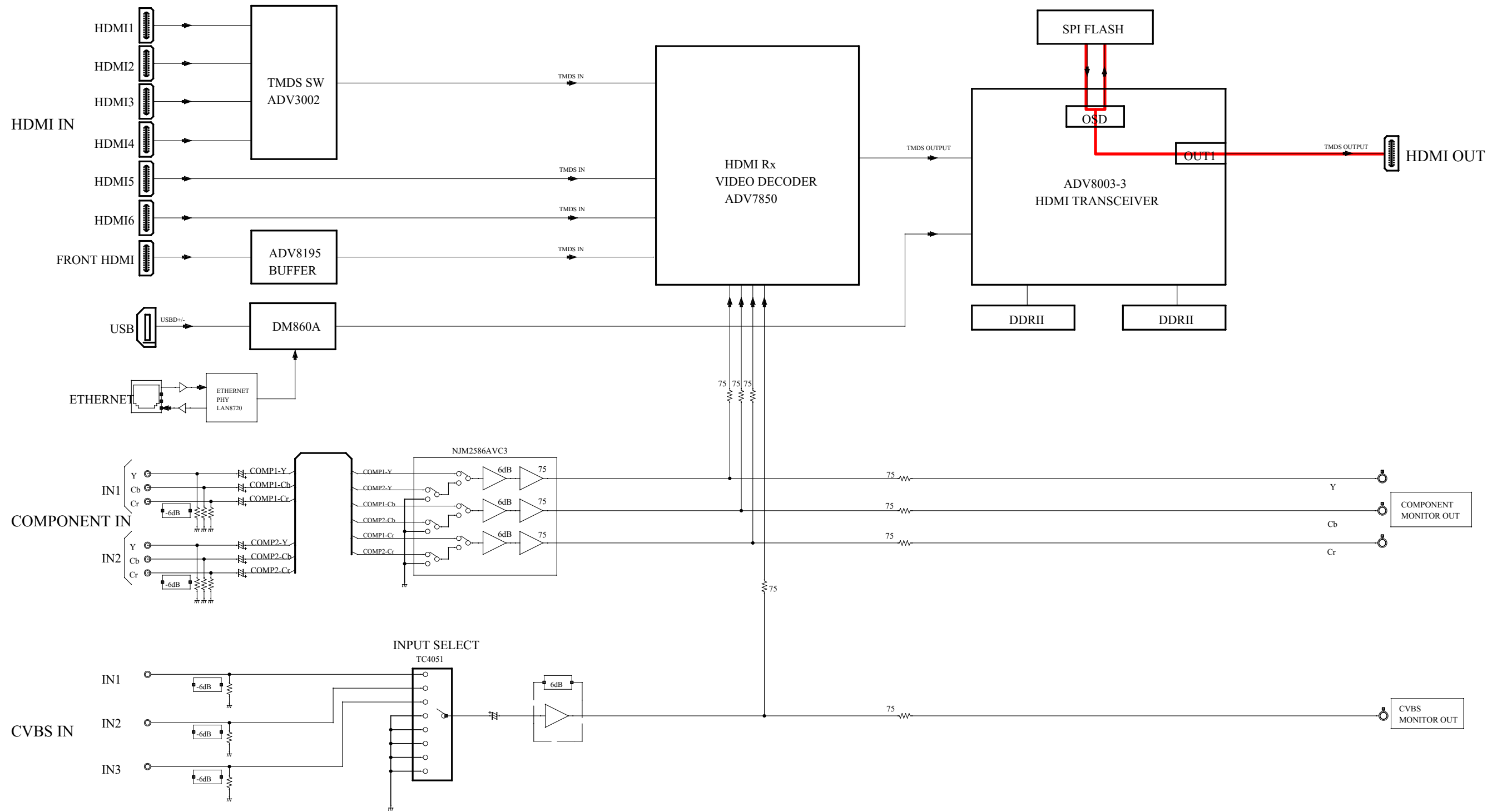


fig8 : Analog (signal) pass

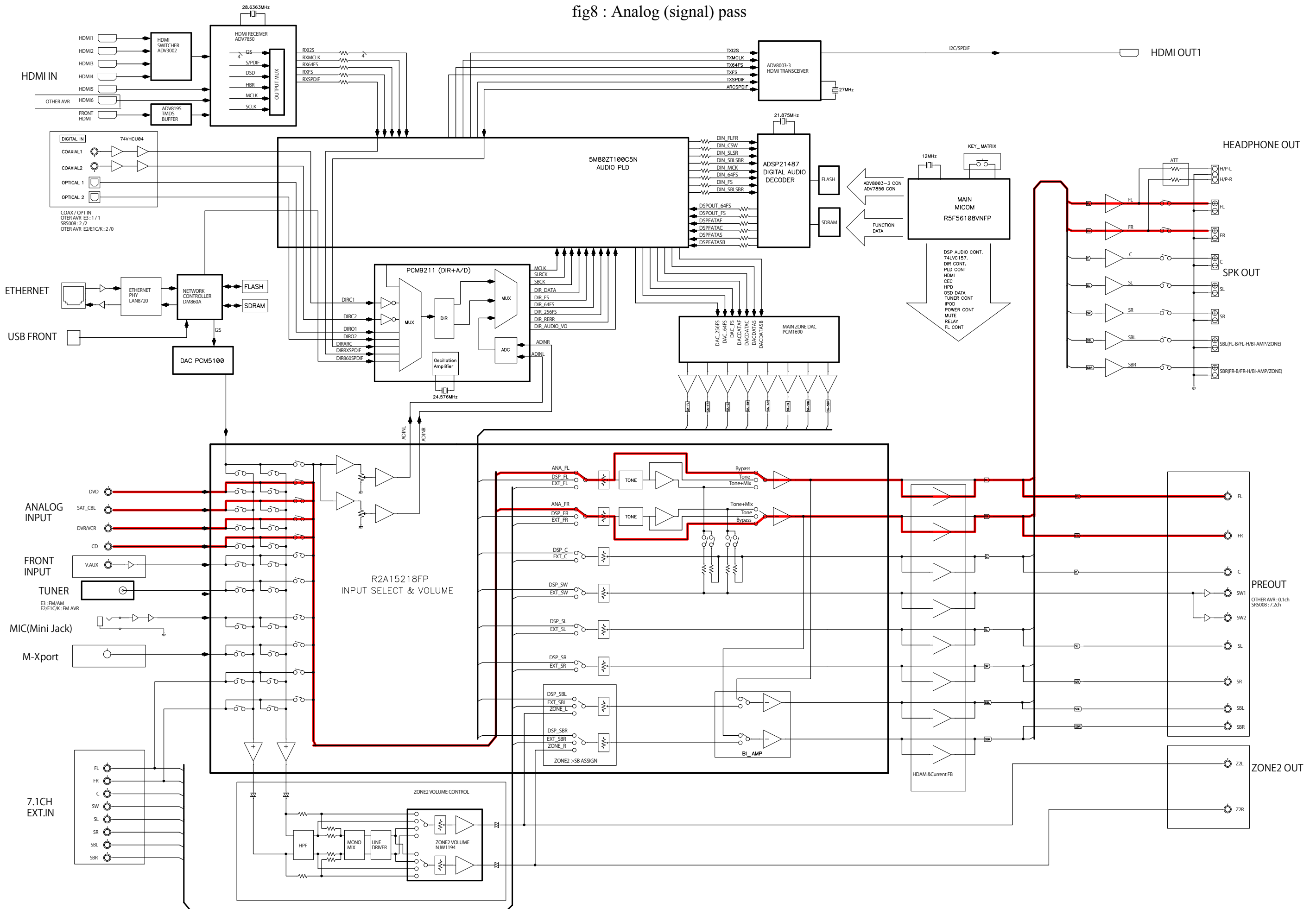


fig9 : Digital (MAIN)

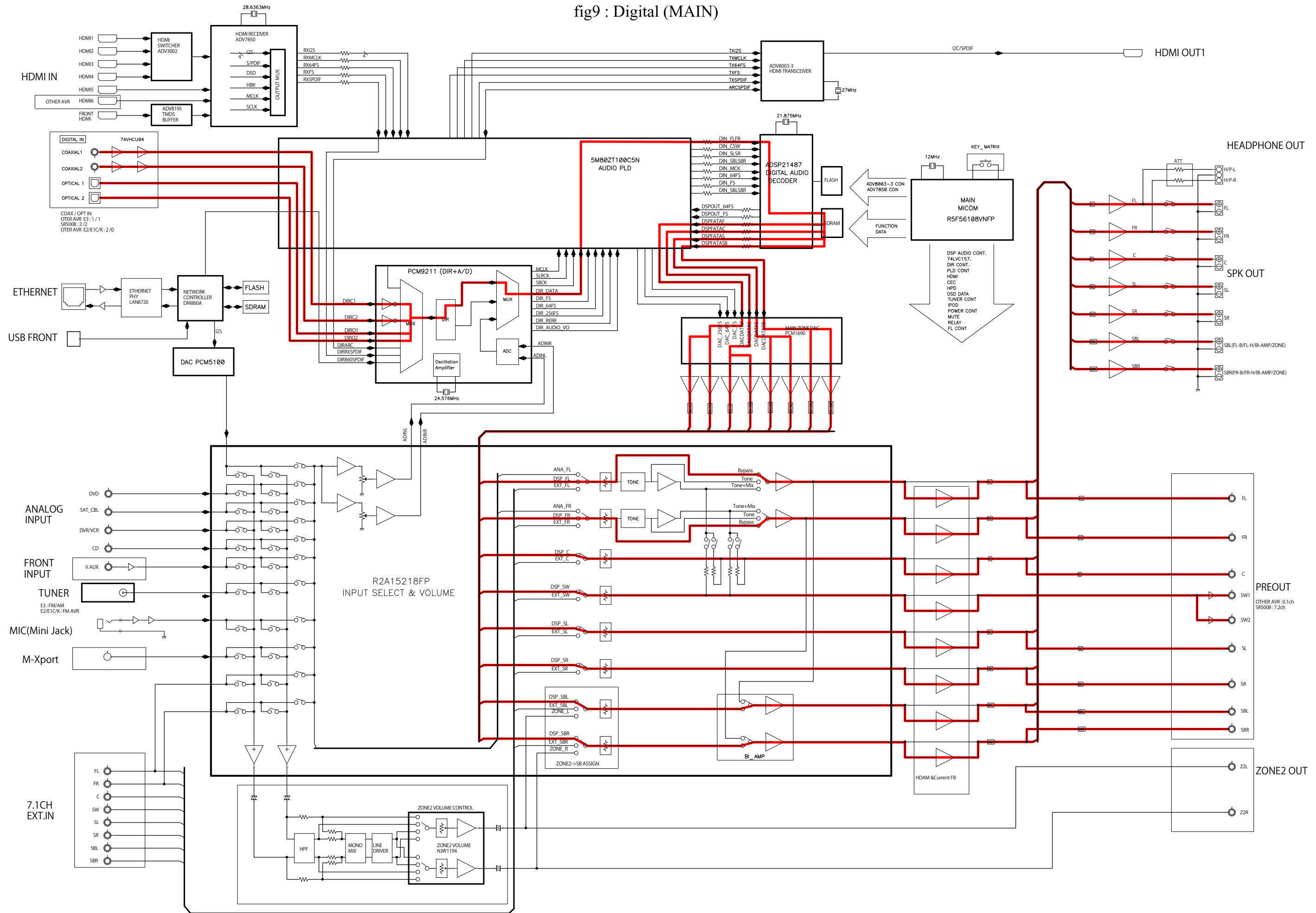


fig10 : digital (ZONE2)

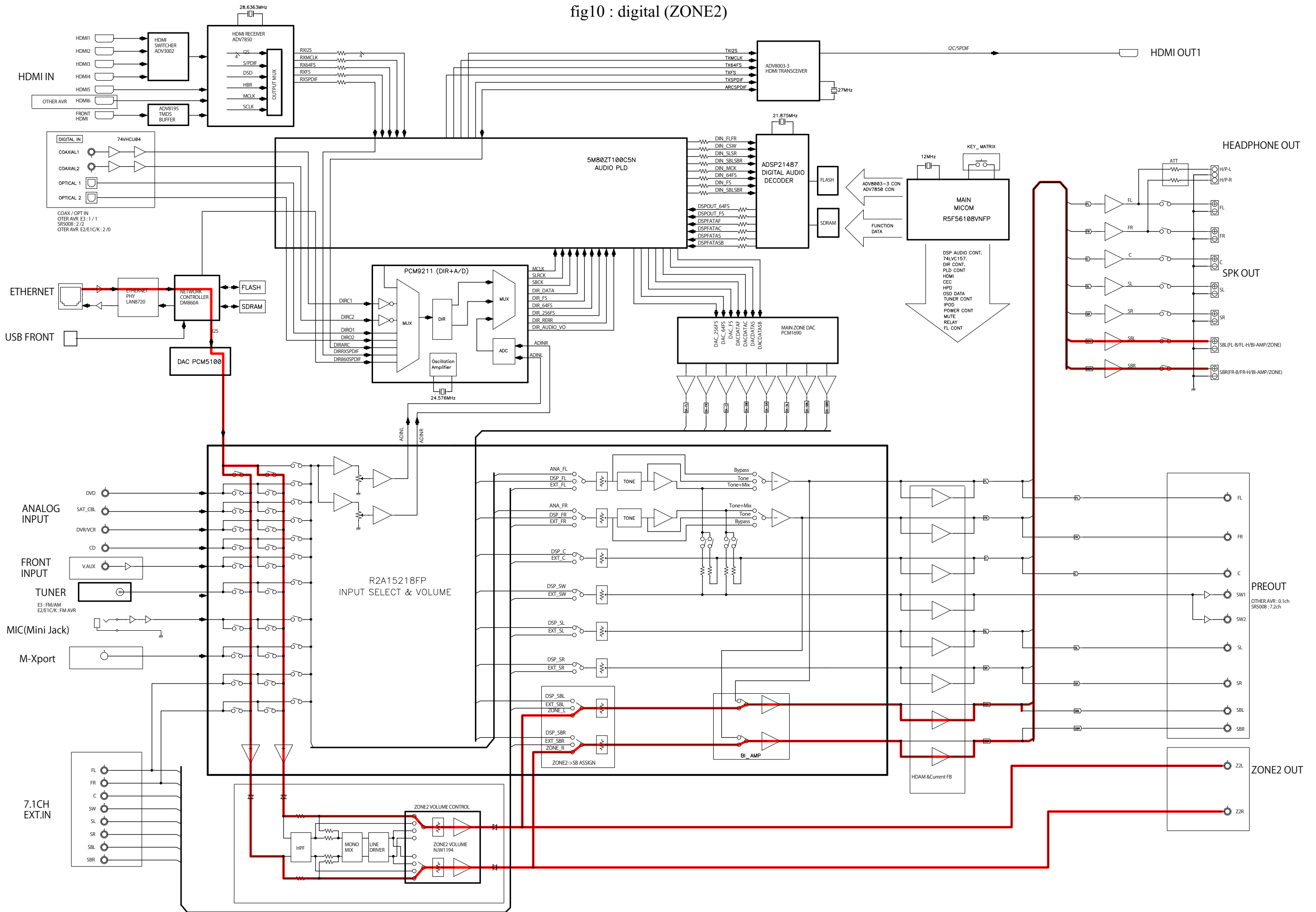


fig11 : HDMI

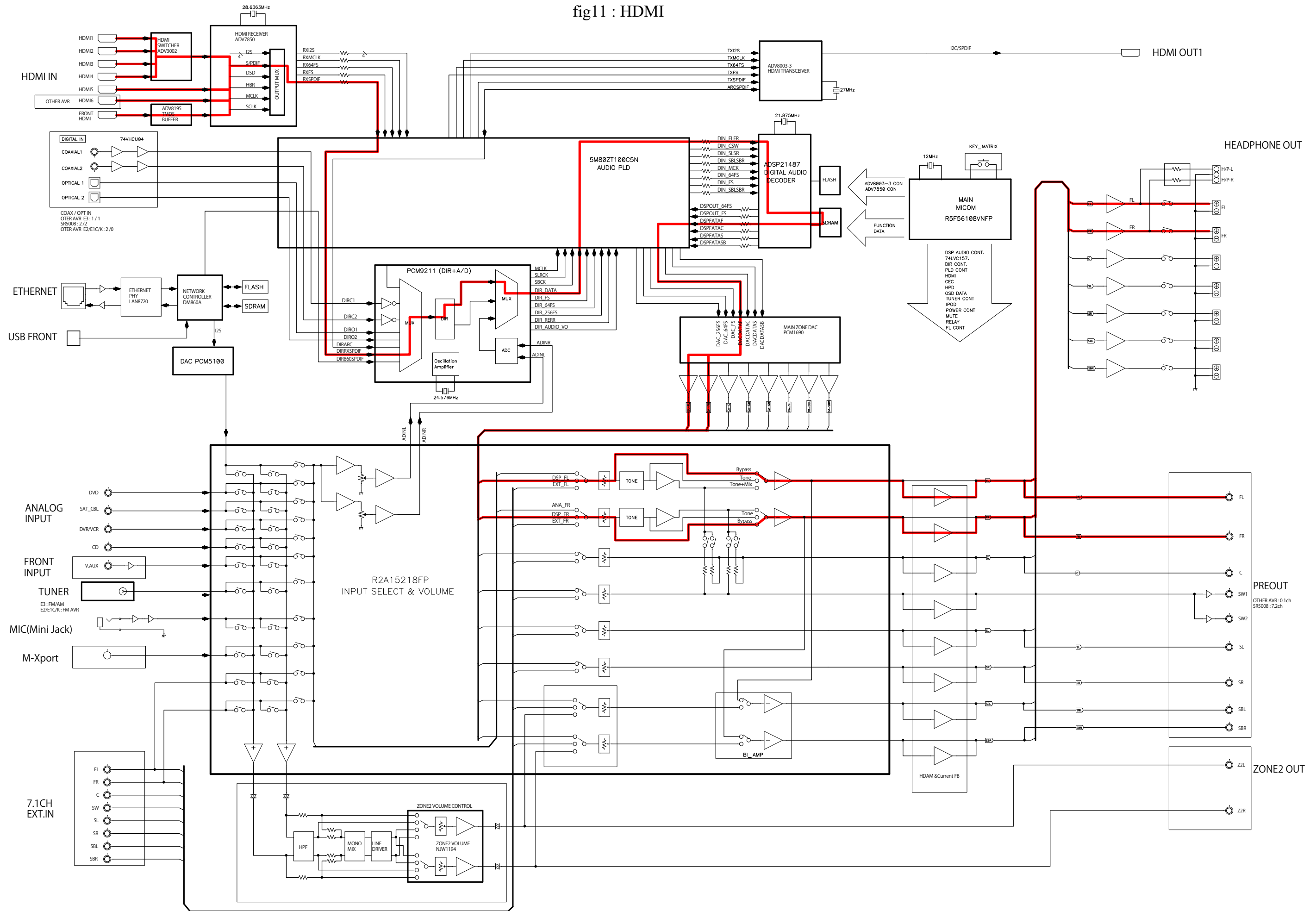


fig12 : analog A/D (MAIN)

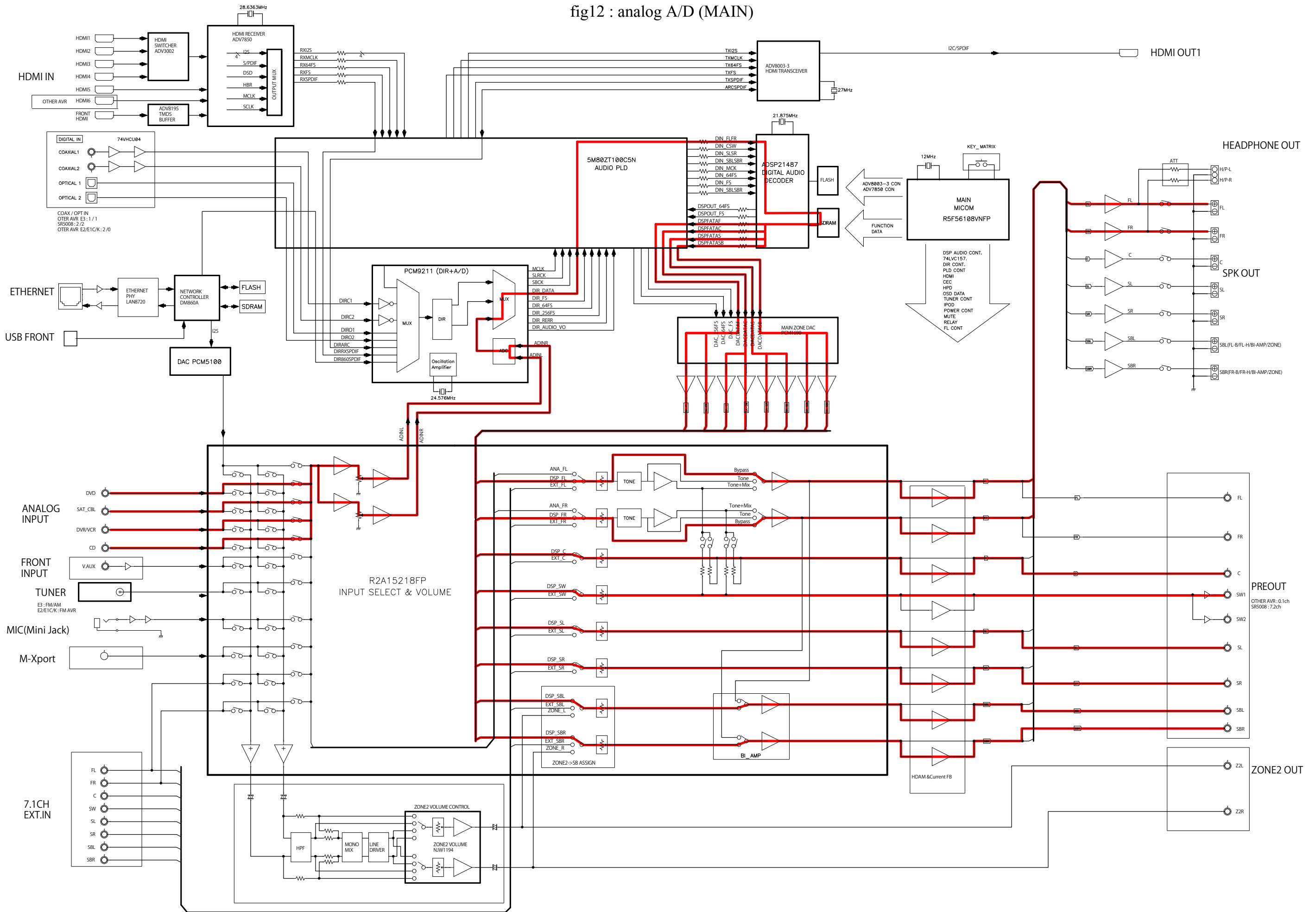


fig13 : Amp assign: ZONE2

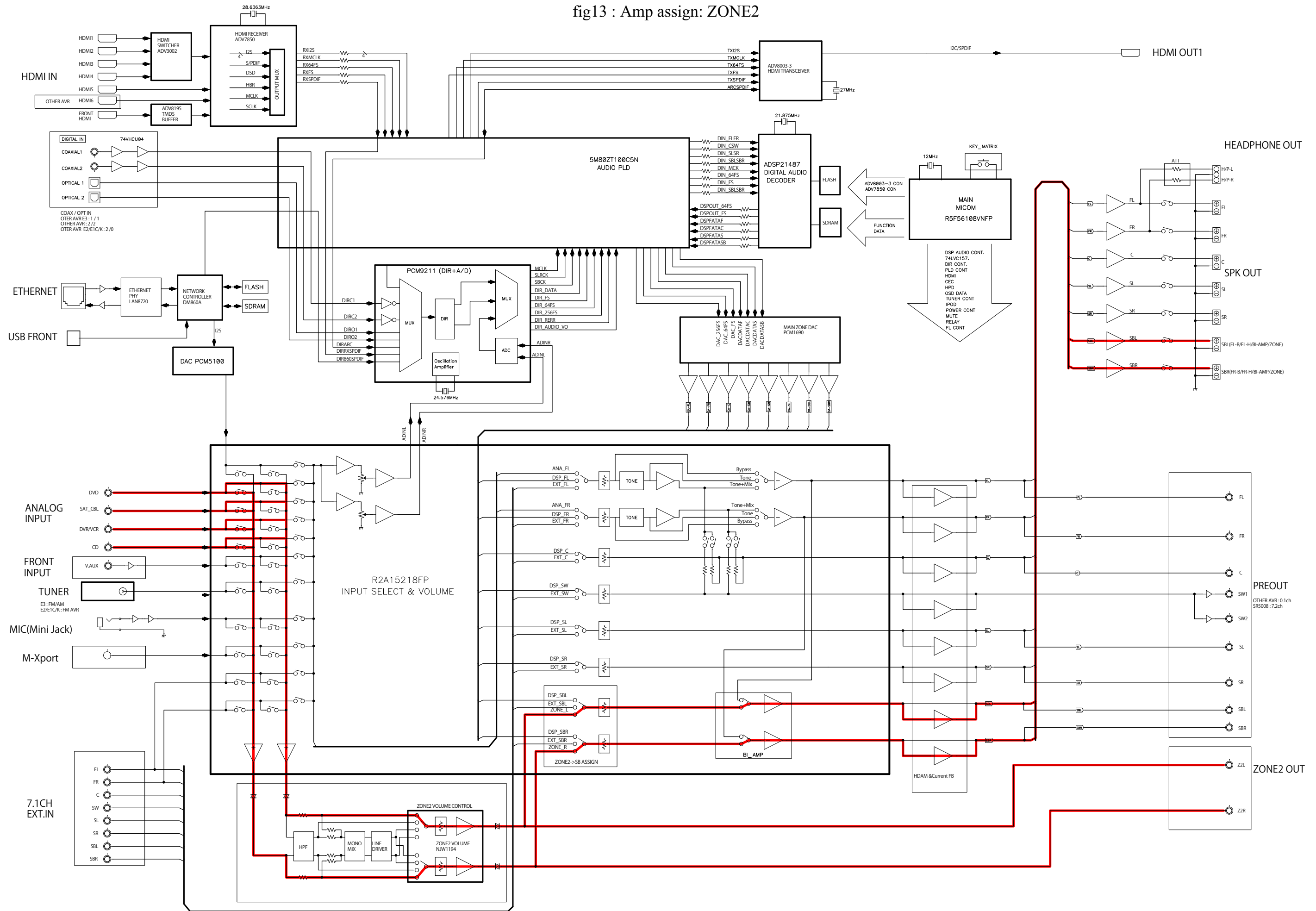


fig14 : amp assign: bi-amp

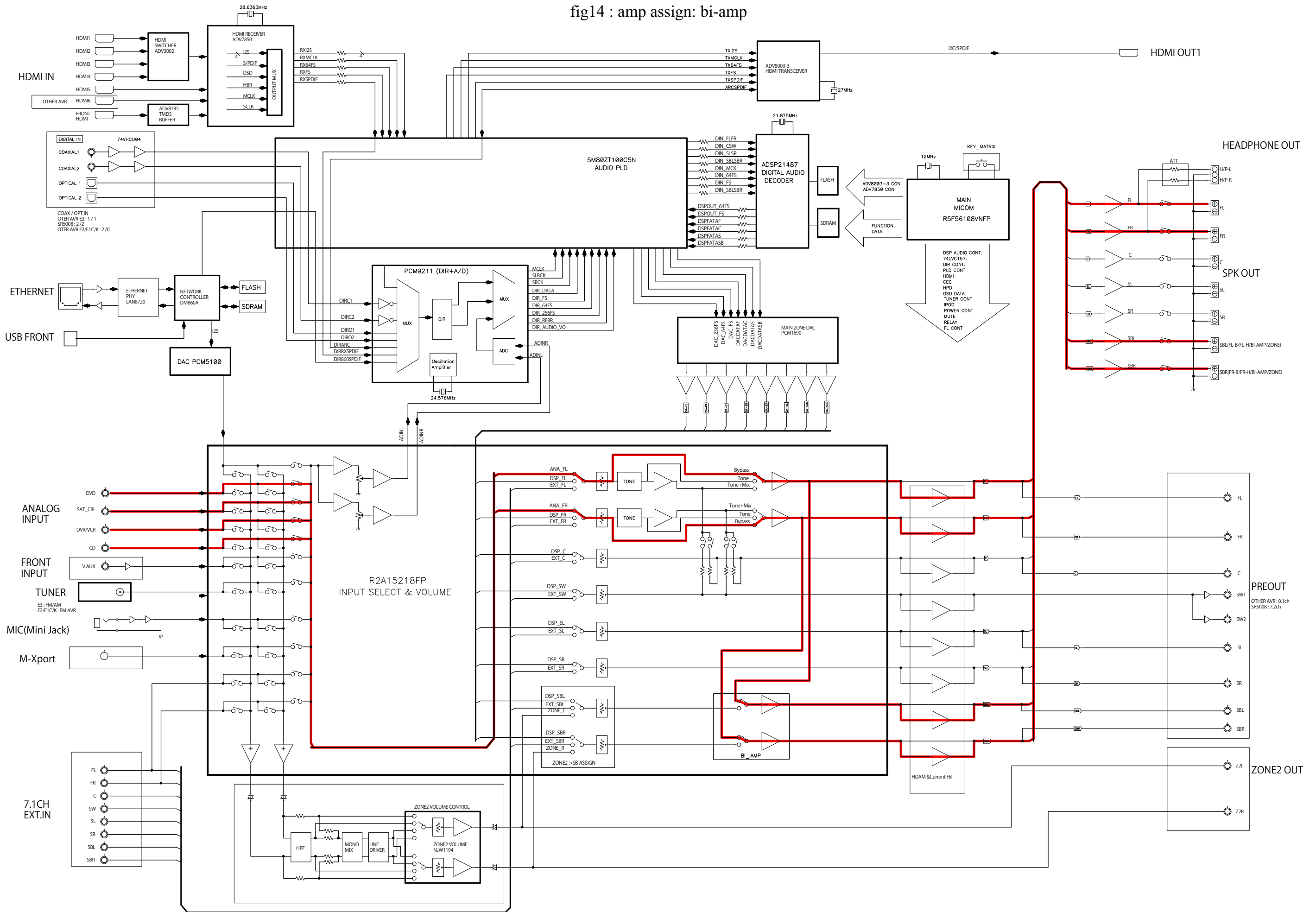


fig15 : front height

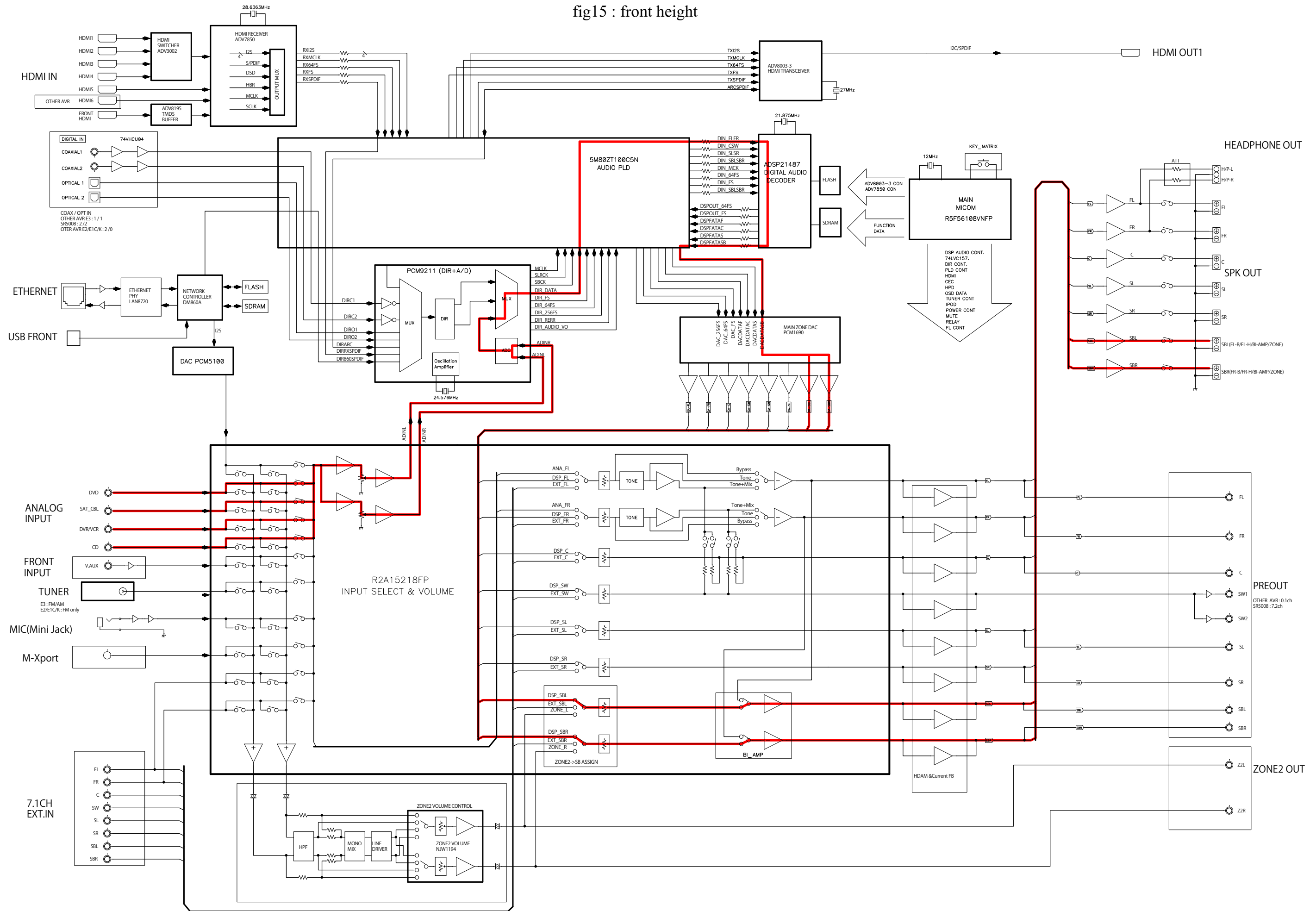
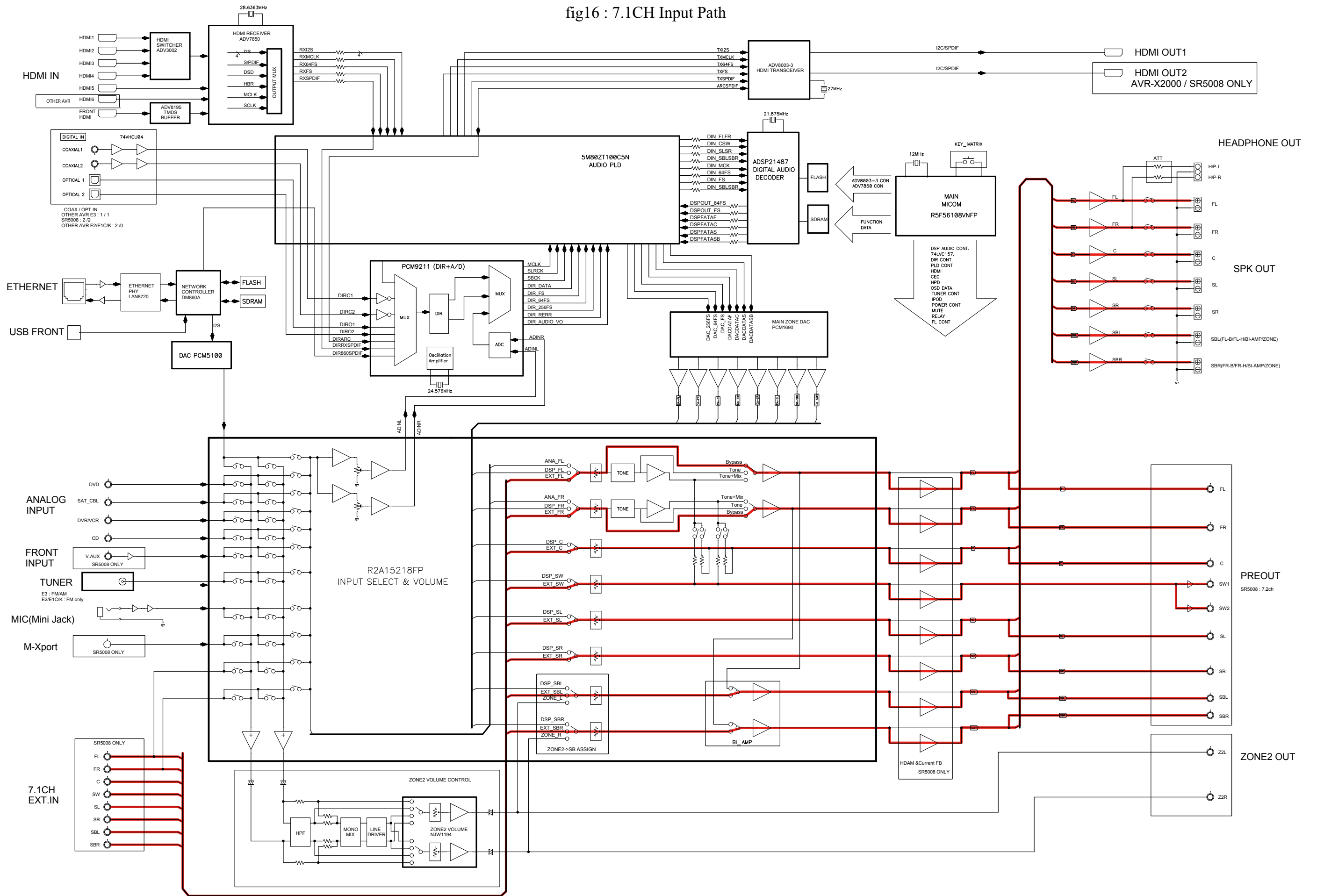


fig16 : 7.1CH Input Path



### 3.5. Errors checking mode (Displaying the protection history)

#### 3.5.1.Operation specifications

##### Error mode (Displaying the protection history):

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

#### 3.5.2.About the display on the FL display

When the "STATUS" button is pressed after the error (protection history display) mode is set, a history like the one shown below is displayed, depending on the conditions.

(1) Normal (when there has been no protection incident)

FLD	P	R	O	T	E	C	T	
		H	I	S	T	O	R	Y
	#	N	O					

(2) For ASO (when the last protection incident was ASO protection)

FLD	P	R	O	T	E	C	T	
		H	I	S	T	O	R	Y
	#	A	S	O				

**Cause:**The line between speaker terminals is shorted, or speakers with impedance of less than the rated value.

**Supplementary information:** As the excess current is detected after operation of the speaker relay, a short on the speaker terminal and the connected speaker can be identified.

If the power is turned on without correcting the abnormality, the protection function will work about 5 seconds later and the power supply will be shut off.

(3) For DC (when the last protection incident was DC protection)

FLD	P	R	O	T	E	C	T	
		H	I	S	T	O	R	Y
	#	D	C					

**Cause:**DC output of the power amplifier is abnormal.

If the power is turned on without correcting the abnormality, the protection function will work about 5 seconds later and the power supply will be shut off.

(4) For THERMAL (when the last protection incident was THERMAL(A) or THERMAL(B) protection)

FLD	P	R	O	T	E	C	T	
		H	I	S	T	O	R	Y
	#	T	H	M	A			

FLD	P	R	O	T	E	C	T	
		H	I	S	T	O	R	Y
	#	T	H	M	B			

**Cause:**The temperature of the heat sink is excessive.

If the power is turned on without correcting the abnormality, the protection function will work about 5 seconds later and the power supply will be shut off.

※ Additional causes of protection can be due to loose connections, associated components, Microprocessor, etc.

When the "STATUS" button is pressed again after the protection history as shown above is displayed, the normal display reappears.

### 3.5.3. Clearing the protection history

There are two ways to clear the protection history, as described below.

- (1) Start up the set in error (protection display) mode and display the error, then press and hold down the **"DISPLAY"** button for 3 seconds.

FLD	P	R	O	T	E	C	T	
		H	I	S	T	O	R	Y
	:	D	C					



Press and hold down **"DISPLAY"** button for 3 seconds.

FLD	P	R	O	T	E	C	T	
		H	I	S	T	O	R	Y
		C	L	E	A	R		



The above is displayed and the protection history is cleared.

FLD	P	R	O	T	E	C	T	
		H	I	S	T	O	R	Y
	:	N	O					

- (2) Initialize. (Refer to **"Initializing AV Surround Receiver"** 10 page.)

※ If you want to save a backup, perform the method in **2.3.(1)**.

### Warning indication by the POWER LED

If the power is turned off when a protection incident has been detected, the POWER LED (red) flashes as a warning according to the conditions in which the protection incident occurred.

- (1) ASO/DC PROTECTION : Flashes at intervals of 0.5 seconds (0.25 seconds lit, 0.25 seconds off)
- (2) THERMAL (A/B) PROTECTION : Flashes at intervals of 2 seconds (1 second lit, 1 second off)

## 3.6. 232C standby clear mode

### 3.6.1. Operation specifications

#### 232C standby clear mode:

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

#### Starting up:

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

FLD	3		R	S	2	3	2	C
			R	E	S	E	T	

## 4. DUAL BACKUP MEMORY

This product has a Dual Backup Memory function. The conventional Backup functions to memorize, in the EEPROM (U3003) 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 **3.2. SERVICE PRECAUTIONS**.

### 4.1. HOW TO OPERATE

#### -Backup-

- (1) Configure a setting you would like to save in the MEMORY and hold down the "PRESET CH +" and "PRESET CH -" 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 "PRESET CH +" and "DISPLAY" 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	

### 4.2. SERVICE PRECAUTIONS

When the Flash Rom (U3003) 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 "SOUND MODE" and "PRESET CH -" 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

### 4.3. Operation Info mode

#### 4.3.1. Specifications

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

#### 4.3.2. 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

FLD	O	P	e	r	a	t	e	
	T	i	m	e	:			
								H

↑ Time display

"STATUS"

(b) Power on count

FLD	P	o	w	e	r		O	n
	T	i	m	e	:			

↑ Count display

"STATUS"

(c) DC /ASO Protection count

FLD	P	r	o	t	e	c	t	
	D	C	:					
	A	S	O	:				

↑ Count display

"STATUS"

(d) Thermal Protection count

FLD	P	r	o	t	e	c	t	
	T	H	A	:				
	T	H	B	:				

↑ Count display

"STATUS"

(Returns to normal display)

## 5. Protection Pass mode

### 5.1. Specifications

- Turn the power on with Protection disabled.  
Except for disabling the Protection detection, this operation is the same as the normal power on.

### 5.2. Operation

1. Press the "**Power Operation** ( $\phi$ )" button while pressing "**SOUND MODE**" and "**DISPLAY**" and "**STATUS**" buttons on the set to turn the power on.
2. The POWER ON sequence starts. The Protection detection is disabled.

FLD	P	r	o	t	e	c	t	
		P	a	s	s			

This is displayed for 5 seconds before returning to the normal display.

## 6. DM860A Reboot mode

### 6.1. 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.

### 6.2. Operation

1. Turn on MAIN ZONE button, and select NETWORK for the input source.
2. Press and hold the "**TUNER PRESET CH +**" and "**STATUS**" buttons for 3 seconds and longer.
3. DM860A is restarted and returns to the normal display.

FLD	N	e	t	w	o	r	k	
	R	e	s	t	a	r	t	

#### NOTE:

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

## 7. NETWORK Initialization mode

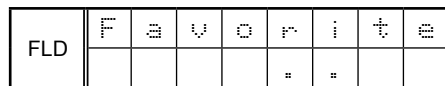
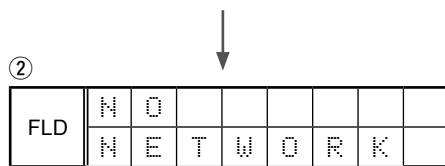
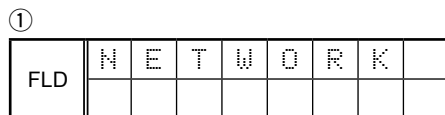
### 7.1. Behavior specifications

Initializes NETWORK related settings.

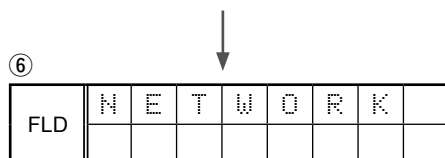
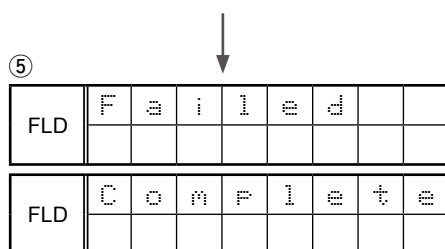
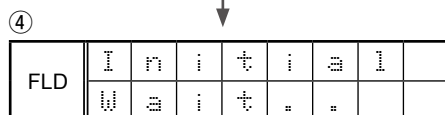
- (1) Favorites
- (2) Favorites Station
- (3) Presets
- (4) Internet Radio Recently Played
- (5) Flickr contacts
- (6) User ID
- (7) Resume Playback station

### 7.2. Starting up

- ① Turn on the power and switch to NETWORK FUNCTION.
- ② Wait until **"No Network Connection"** or **"Favorites"** is displayed on FLD.
- ③ Press and hold **"DISPLAY"** and **"PRESET CH-"**.
- ④ When **"Initializing"** is displayed on FLD, release the buttons.  
If it is not displayed within 15 seconds, try again from Step ③.
- ⑤ Wait until **"No Network Connection"** or **"Favorites"** is displayed on FLD.
- ⑥ Press the **"Power operation (⏻)"** button to turn off and on the power.



- ③ Press and hold **"DISPLAY"** and **"TUNER PRESET CH-"**.



# JIG FOR SERVICING

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

**NOTE:** The incorrect connection with in the JIG (EXTENSION UNIT KIT) may cause damage.

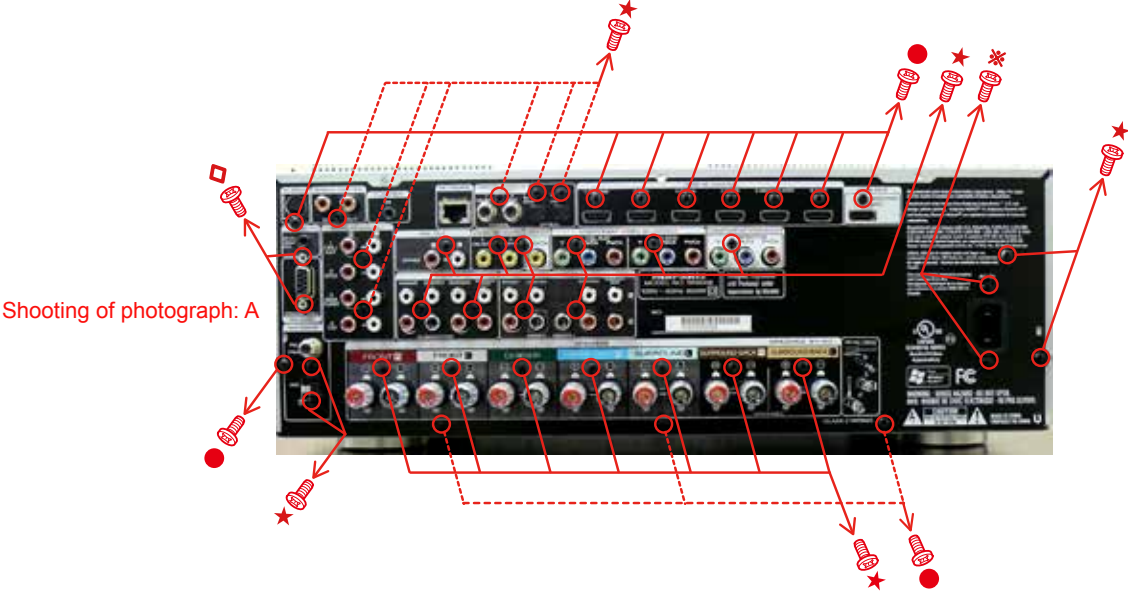
## • Connection of PCB HDMI JIG

-Preparation-

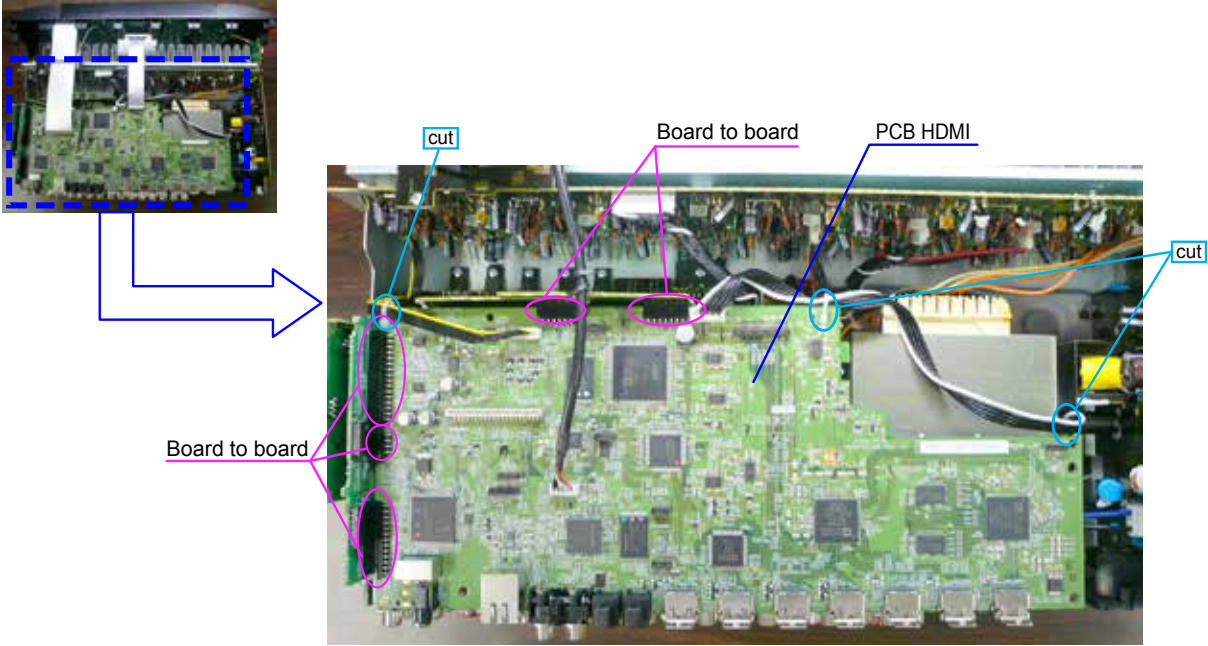
- 8U-110084S : EXTENSION UNIT KIT : 1Set
- 8U-110136S : EXTENSION UNIT KIT : 1Set
- Insulation sheet (Do not supply it) : 1 sheet
- Ground lead (Do not supply it) : 2 pc

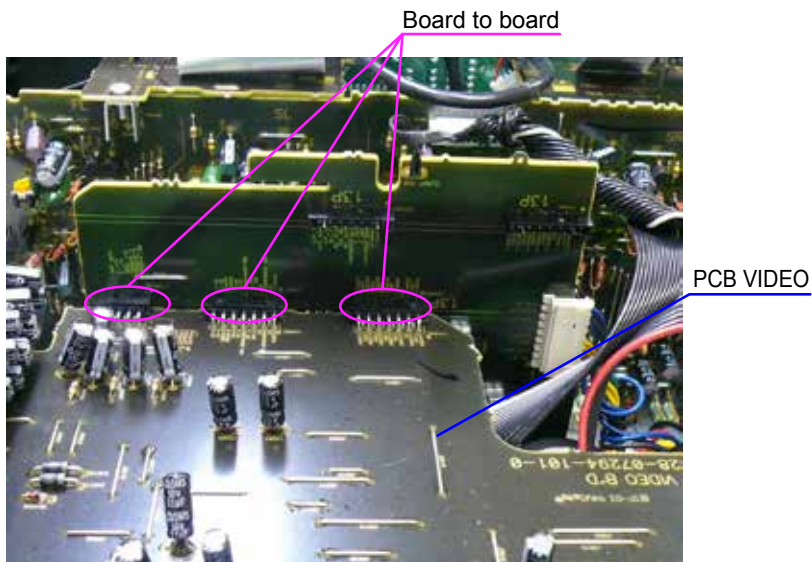
-Procedures-

(1) Remove the screws.

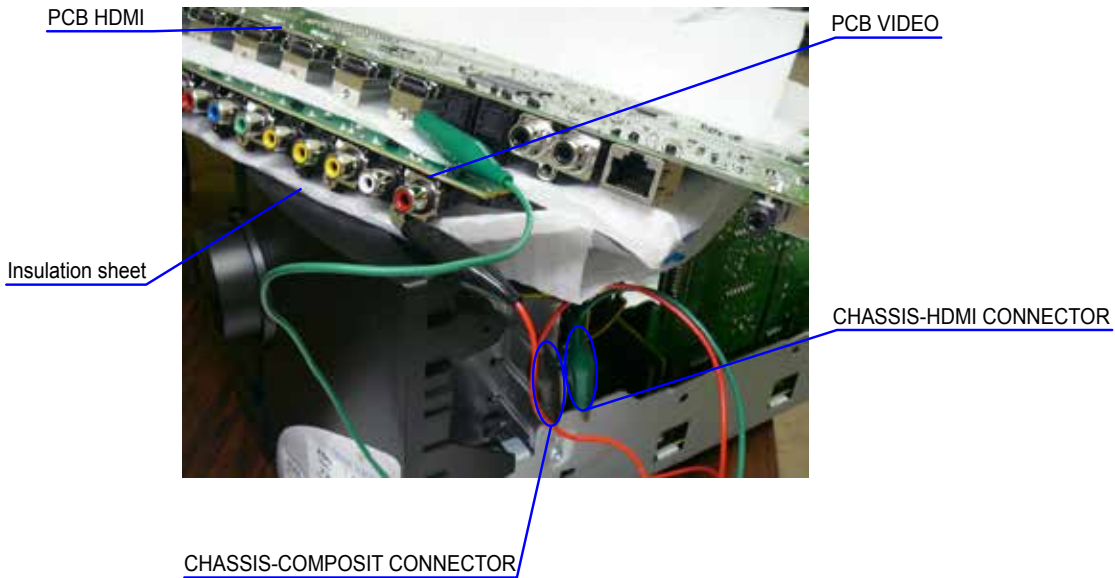


(2) Disconnect the connector board.

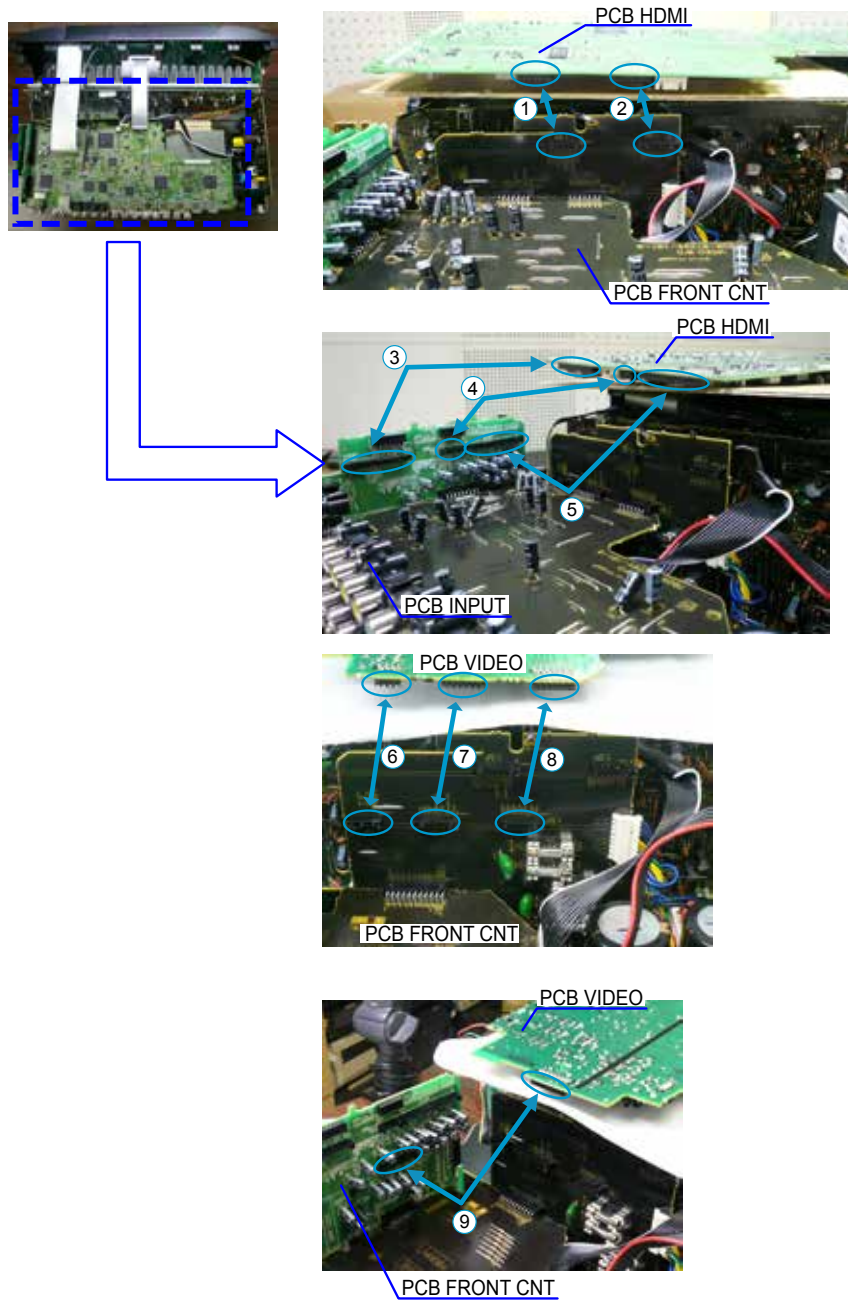




- (3) Detach PCB HDMI from the chassis, and turn it over.  
 Please put an insulation sheet that is larger than PCB HDMI under PCB.  
 ※ Connect the ground point of PCB to the chassis with a ground lead or the like.



(4) Connect the Nine extension jig cables.



Connection table of Board to Board

No.	Pin	Ref. No.	PCB		Ref. No.	PCB
①	13pin	CP3404	FRONT CNT	↔	N3404	HDMI
②	13pin	CP3401	FRONT CNT	↔	N3401	HDMI
③	25pin	CP4200	INPUT PCB	↔	N3407	HDMI
④	7pin	CP4203	INPUT PCB	↔	N3406	HDMI
⑤	31pin	CP4201	INPUT PCB	↔	N3403	HDMI
⑥	7pin	CP5004	FRONT CNT	↔	CN5004	VIDEO
⑦	13pin	CP5001	FRONT CNT	↔	CN5001	VIDEO
⑧	13pin	CP5000	FRONT CNT	↔	CN5000	VIDEO
⑨	9pin	CP4204	INPUT	↔	CN5003	VIDEO

## WHEN THE MICROPROCESSOR IS REPLACED WITH A NEW ONE

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

PCB Name	Ref. No.	Description	After replaced	Remark
HDMI	U3002	R5F56108VNFP	D	SOFTWARE: Main
HDMI	U2003	MX29LV160DBTI	B	SOFTWARE: DSP ROM
HDMI	U2205	5M80ZT100C5N	B	SOFTWARE: AUDIO PLD
HDMI	U2603	H27U1G8F2BTR	D	SOFTWARE: DM860A ROM
HDMI	U1602	MX25L12836EMI-10G	D	SOFTWARE: GUI ROM

### 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** : 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.
- D** : Flash ROM (With software). But you should write to the latest version of each region.

## PROCEDURE FOR UPGRADING THE VERSION OF THE FIRMWARE

**NOTE:** When the following are replaced, always rewrite with updated firmware using DFW. (Refer to parts list of "HDMI PCB UNIT ASS'Y" (See the part list in Excel format.)

- PCB HDMI ASSY
- U3002 (R5F56108VNFP)
- U2003(MX29LV160DBTI)
- U2205(5M80ZT100C5N)
- U2603(H27U1G8F2BTR)

After replacing U2603, always update the Firmware. After the update has been completed, initialize network.([52 page](#))

- U1602(MX25L12836EMI-10G)

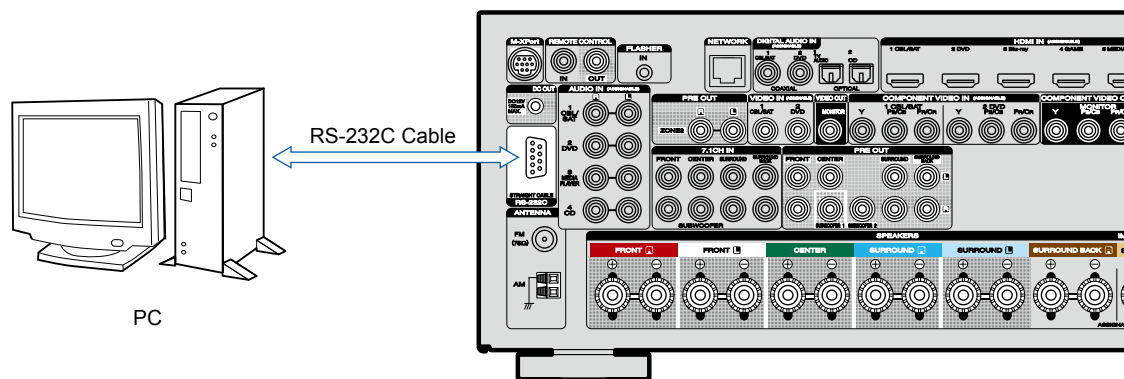
# 1. How to update by DFW

## 1.1. Preparations before starting the operation

- (1) Personal Computer (Installed "DFW\_0021\_SR5008\_(Rev.X.X.X).exe").
- (2) RS-232C cable (9P (Male), Straight).

## 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".



[All model commonness]

## 1.3. Turn on the AV receiver

Operate the following. Turn on the AV receiver.

- (1) Connect the power cable to the AC outlet while simultaneously pushing the "SOUND MODE", "M-DAX" button of the front panel.
- (2) Confirm the power indicator is green and "WRITING" is displayed in the front panel.

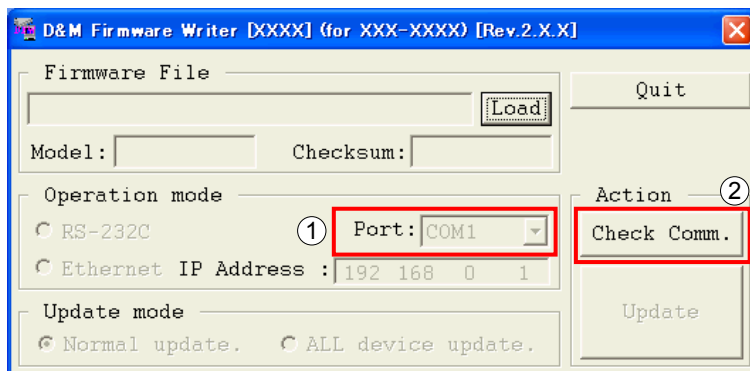
## 1.4. Run the DFW

Run the "DFW\_0021\_SR5008\_(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.

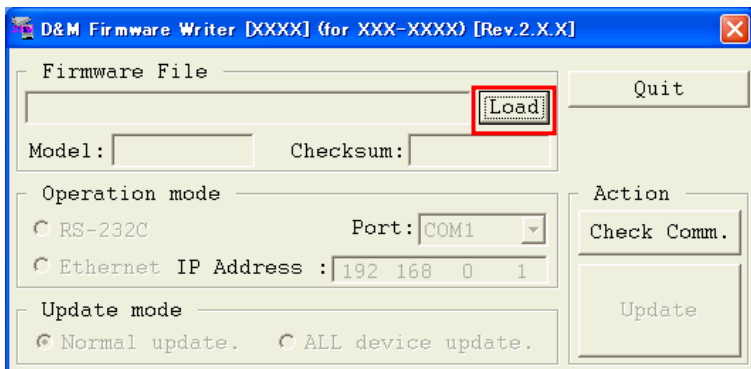


Please confirm the following

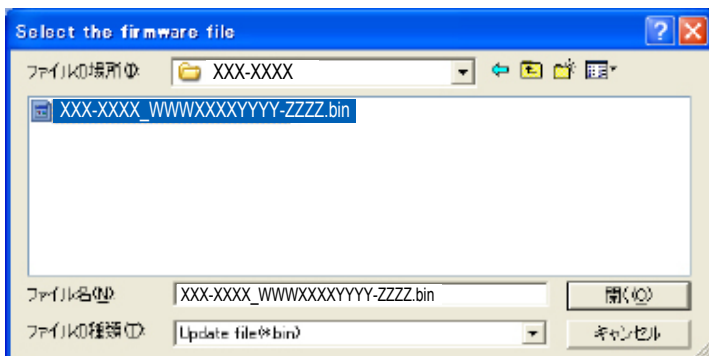
- (a) Check the connection of the AV receiver and PC. (refer to "1.2. Connection of the AV receiver" )
- (b) Check the operation mode of the AV receiver. (refer to "1.3.Turn on the AV receiver")
- (c) Check the selection of the RS-232C port number of PC.

### 1.6. Download the firmware

(1) Click the "Load" button.

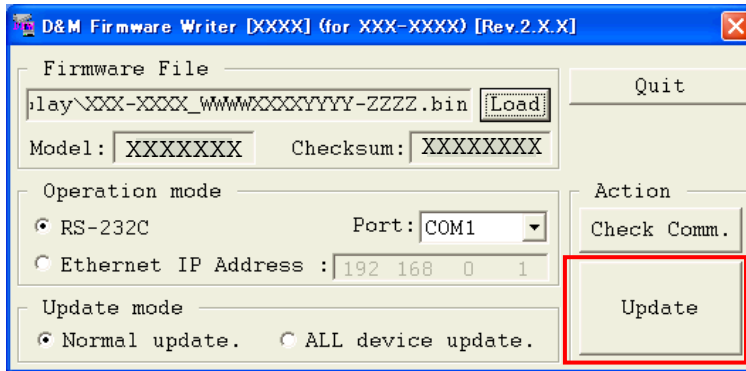


(2) Download the firmware from the specified download source to PC.

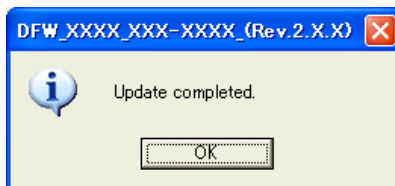


## 1.7. Complete the firmware updating

- (1) Click the "Update" button.

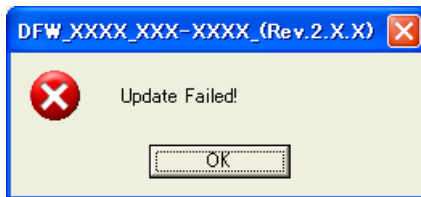


- (2) When writing of the firmware is completed, the power of AV receiver turns on automatically and you can see the "Update completed" message.



After replacing U2603, always update the Firmware. After the update has been completed, initialize network.(<57page)

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



## 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.  $\mu$ com/DSP Version display mode" (24 page).

## 2. How to update by DPMS

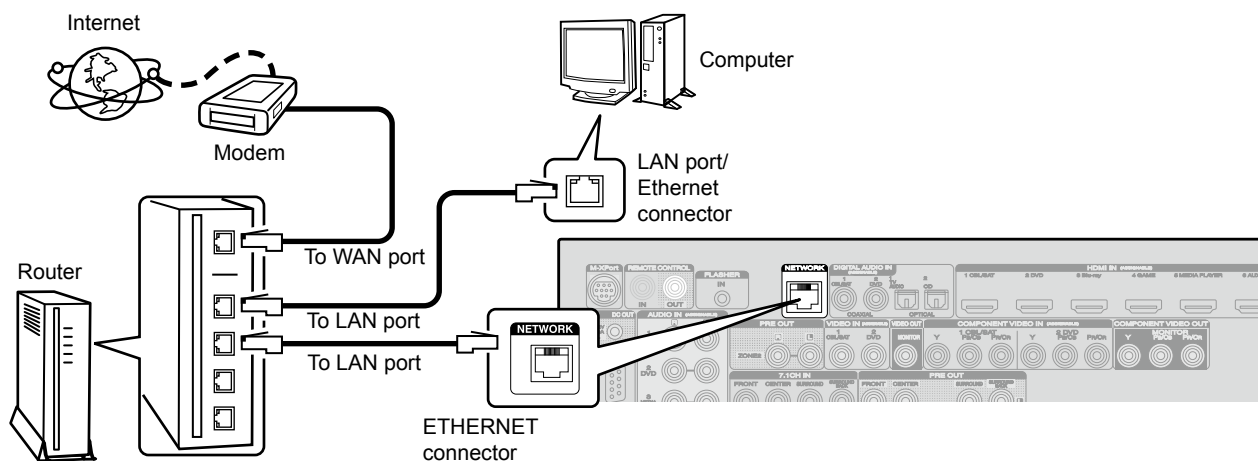
You can update the firmware by downloading the latest version from the Internet.

### 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 **"Start"**, 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 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.

## 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 (Eight digits or more are the scrolling displays.)	Coping strategies
01	Log-in to DPMS failed.	Log in 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.	ConnectionFailed 03	Check the network connection. Carry out the update in an environment that has little network load.
04	Firmware file data was requested but error message was received.	ConnectionFailed 04	Check the network connection. Carry out the update in an environment that has little network load.
05	Firmware file data was requested but it timed out.	ConnectionFailed 05	Check the network connection. Carry out the update in an environment that has little network load.
06	Firmware file data was requested but error message was received.	ConnectionFailed 06	Check the network connection. Carry out the update in an environment that has little network load.
07	All firmware file data was requested but it timed out.	ConnectionFailed 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.	ConnectionFailed 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.	ConnectionFailed 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 failed 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 failed 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 failed 0C	Check the network connection. Carry out the update in an environment that has little network load.
0D	Received Package Version is wrong.	Connection failed 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 failed 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).	Mem update failed 10	Turn off and on the power. Updating starts automatically.

Error Code	Details of Error code	Display (Eight digits or more are the scrolling displays.)	Coping strategies																																								
11	Main CPU failed to receive firmware for rewriting sent from DM860A (when an error occurred).	<table border="1"> <tr><td>M</td><td>a</td><td>i</td><td>n</td><td>C</td><td>P</td><td>U</td><td></td><td></td><td></td><td></td></tr> <tr><td>U</td><td>p</td><td>d</td><td>a</td><td>t</td><td>e</td><td></td><td>5</td><td>9</td><td></td><td></td></tr> <tr><td>U</td><td>p</td><td>d</td><td>a</td><td>t</td><td>e</td><td></td><td></td><td></td><td></td><td></td></tr> </table>	M	a	i	n	C	P	U					U	p	d	a	t	e		5	9			U	p	d	a	t	e						Turn off and on the power. Updating starts automatically.							
M	a	i	n	C	P	U																																					
U	p	d	a	t	e		5	9																																			
U	p	d	a	t	e																																						
12	There was invalid data in the firmware for rewriting sent from DM860A to Main CPU (when a Check Sum error occurred).	<table border="1"> <tr><td>M</td><td>a</td><td>i</td><td>n</td><td>C</td><td>P</td><td>U</td><td></td><td></td><td></td><td></td></tr> <tr><td>U</td><td>p</td><td>d</td><td>a</td><td>t</td><td>e</td><td></td><td>5</td><td>9</td><td></td><td></td></tr> <tr><td>U</td><td>p</td><td>d</td><td>a</td><td>t</td><td>e</td><td></td><td></td><td></td><td></td><td></td></tr> </table>	M	a	i	n	C	P	U					U	p	d	a	t	e		5	9			U	p	d	a	t	e						Turn off and on the power. Updating starts automatically.							
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U	p	d	a	t	e		5	9																																			
U	p	d	a	t	e																																						
13	The deletion of block data failed before Main CPU was rewritten.	<table border="1"> <tr><td>M</td><td>a</td><td>i</td><td>n</td><td>C</td><td>P</td><td>U</td><td></td><td></td><td></td><td></td></tr> <tr><td>E</td><td>r</td><td>r</td><td>o</td><td>r</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>U</td><td>p</td><td>d</td><td>a</td><td>t</td><td>e</td><td></td><td></td><td></td><td></td><td></td></tr> </table>	M	a	i	n	C	P	U					E	r	r	o	r							U	p	d	a	t	e						Turn off and on the power. Updating starts automatically.							
M	a	i	n	C	P	U																																					
E	r	r	o	r																																							
U	p	d	a	t	e																																						
14	The rewriting of block data failed when Main CPU was rewritten.	<table border="1"> <tr><td>M</td><td>a</td><td>i</td><td>n</td><td>C</td><td>P</td><td>U</td><td></td><td></td><td></td><td></td></tr> <tr><td>U</td><td>p</td><td>d</td><td>a</td><td>t</td><td>e</td><td></td><td>5</td><td>9</td><td></td><td></td></tr> <tr><td>U</td><td>p</td><td>d</td><td>a</td><td>t</td><td>e</td><td></td><td></td><td></td><td></td><td></td></tr> </table>	M	a	i	n	C	P	U					U	p	d	a	t	e		5	9			U	p	d	a	t	e						Turn off and on the power. Updating starts automatically.							
M	a	i	n	C	P	U																																					
U	p	d	a	t	e		5	9																																			
U	p	d	a	t	e																																						
15	The data verification was invalid after Main CPU was rewritten.	<table border="1"> <tr><td>M</td><td>a</td><td>i</td><td>n</td><td>C</td><td>P</td><td>U</td><td></td><td></td><td></td><td></td></tr> <tr><td>U</td><td>p</td><td>d</td><td>a</td><td>t</td><td>e</td><td></td><td>5</td><td>9</td><td></td><td></td></tr> <tr><td>C</td><td>o</td><td>n</td><td>f</td><td>i</td><td>r</td><td>e</td><td></td><td></td><td></td><td></td></tr> </table>	M	a	i	n	C	P	U					U	p	d	a	t	e		5	9			C	o	n	f	i	r	e					Turn off and on the power. Updating starts automatically.							
M	a	i	n	C	P	U																																					
U	p	d	a	t	e		5	9																																			
C	o	n	f	i	r	e																																					
20	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (AutoIP).	<table border="1"> <tr><td>C</td><td>o</td><td>n</td><td>n</td><td>e</td><td>c</td><td>t</td><td>i</td><td>o</td><td>n</td><td>f</td><td>a</td><td>i</td><td>l</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	C	o	n	n	e	c	t	i	o	n	f	a	i	l																											Check the network connection. Carry out the update in an environment that has little network load.
C	o	n	n	e	c	t	i	o	n	f	a	i	l																														
21	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (when timed out).	<table border="1"> <tr><td>C</td><td>o</td><td>n</td><td>n</td><td>e</td><td>c</td><td>t</td><td>i</td><td>o</td><td>n</td><td>f</td><td>a</td><td>i</td><td>l</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	C	o	n	n	e	c	t	i	o	n	f	a	i	l																											Check the network connection. Carry out the update in an environment that has little network load.
C	o	n	n	e	c	t	i	o	n	f	a	i	l																														
22	Log-in to DPMS failed.	<table border="1"> <tr><td>L</td><td>o</td><td>g</td><td>i</td><td>n</td><td>f</td><td>a</td><td>i</td><td>l</td><td>e</td><td>d</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	L	o	g	i	n	f	a	i	l	e	d																											Reset and update again. Carry out the update in an environment that has little network load.			
L	o	g	i	n	f	a	i	l	e	d																																	
23	Line, etc., is busy when logging into DPMS.	<table border="1"> <tr><td>S</td><td>e</td><td>r</td><td>v</td><td>e</td><td>r</td><td>i</td><td>s</td><td>b</td><td>u</td><td>s</td><td>y</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	S	e	r	v	e	r	i	s	b	u	s	y																											Carry out the update in an environment that has little network load.		
S	e	r	v	e	r	i	s	b	u	s	y																																
24	Connection to DPMS failed.	<table border="1"> <tr><td>C</td><td>o</td><td>n</td><td>n</td><td>e</td><td>c</td><td>t</td><td>i</td><td>o</td><td>n</td><td>f</td><td>a</td><td>i</td><td>l</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	C	o	n	n	e	c	t	i	o	n	f	a	i	l																											Check the network connection. Carry out the update in an environment that has little network load.
C	o	n	n	e	c	t	i	o	n	f	a	i	l																														
25	Mode change failure of DM860A.	<table border="1"> <tr><td>C</td><td>o</td><td>n</td><td>n</td><td>e</td><td>c</td><td>t</td><td>i</td><td>o</td><td>n</td><td>f</td><td>a</td><td>i</td><td>l</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	C	o	n	n	e	c	t	i	o	n	f	a	i	l																											Reset and update again.
C	o	n	n	e	c	t	i	o	n	f	a	i	l																														
26	Data acquisition failed (timed out) when firmware of Main CPU was downloaded. Received Package Version is wrong.	<table border="1"> <tr><td>D</td><td>o</td><td>w</td><td>n</td><td>l</td><td>o</td><td>a</td><td>d</td><td>f</td><td>a</td><td>i</td><td>l</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	D	o	w	n	l	o	a	d	f	a	i	l																											Check the network connection. Carry out the update in an environment that has little network load.		
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C	o	n	n	e	c	t	i	o	n	f	a	i	l																														
36	Log-in to DPMS failed when Main CPU was rewritten.	<table border="1"> <tr><td>M</td><td>a</td><td>i</td><td>n</td><td>C</td><td>P</td><td>U</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>L</td><td>o</td><td>g</td><td>i</td><td>n</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>U</td><td>p</td><td>d</td><td>a</td><td>t</td><td>e</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	M	a	i	n	C	P	U							L	o	g	i	n									U	p	d	a	t	e								Carry out the update in an environment that has little network load.	
M	a	i	n	C	P	U																																					
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U	p	d	a	t	e																																						
37	Line, etc., is busy when logging into DPMS when Main CPU was rewritten.	<table border="1"> <tr><td>M</td><td>a</td><td>i</td><td>n</td><td>C</td><td>P</td><td>U</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>U</td><td>p</td><td>d</td><td>a</td><td>t</td><td>e</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>L</td><td>i</td><td>n</td><td>e</td><td>b</td><td>u</td><td>s</td><td>y</td><td></td><td></td><td></td><td></td><td></td></tr> </table>	M	a	i	n	C	P	U							U	p	d	a	t	e								L	i	n	e	b	u	s	y						Carry out the update in an environment that has little network load.	
M	a	i	n	C	P	U																																					
U	p	d	a	t	e																																						
L	i	n	e	b	u	s	y																																				

Error Code	Details of Error code	Display (Eight digits or more are the scrolling displays.)	Coping strategies
38	Connection to DPMS failed when Main CPU was rewritten.	M C O M M U N I C A T I O N E R R O R	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.	M C O M M U N I C A T I O N T I M E D O U T	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.	M D O W N L O A D E R R O R	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 downloading firmware when Main CPU was rewritten.	M D O W N L O A D E R R O R	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 downloading firmware when Main CPU was rewritten.	M D O W N L O A D E R R O R	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).	M C O M M U N I C A T I O N E R R O R	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).	M C O M M U N I C A T I O N T I M E D O U T	Check the network connection. Carry out the update in an environment that has little network load.
50	Log-in to DPMS failed when firmware such as DSP and PLD was rewritten.	D P M S L O G - I N F A I L E D	Carry out the update in an environment that has little network load.
51	Line, etc., is busy when the log-in to DPMS when firmware such as DSP and PLD was rewritten.	D P M S L O G - I N B U S Y	Carry out the update in an environment that has little network load.
52	Connection to DPMS failed when firmware such as DSP and PLD was rewritten.	D P M S C O N N E C T I O N E R R O R	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 DSP and PLD was rewritten.	D P M S L O G - I N E R R O R	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 DSP and PLD was rewritten, request was made for firmware data after the log-in to DPMS, but it timed out.	D P M S L O G - I N T I M E D O U T	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
56	Downloading firmware failed after the log-in to DPMS when firmware such as DSP and PLD was rewritten.	D P M S L O G - I N F A I L E D	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 firmware such as DSP and PLD was rewritten.	D P M S L O G - I N E R R O R	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 (Eight digits or more are the scrolling displays.)	Coping strategies
58	Firmware download error received (connection failure) after the log-in to DPMS when firmware such as DSP and PLD was rewritten.	DSP D O W N L O A D E R R O R	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 DSP, PLD etc.	DSP C O M M A N D R E C E I V E D	Turn off and on the power. Updating starts automatically.
5B	NACK was received when "L" command sent to DSP, PLD etc.	DSP L O A D E R R O R	Turn off and on the power. Updating starts automatically.
5C	DSP, PLD etc. failed to receive firmware for rewriting sent from DM860A (when timed out).	DSP U P D A T E T I M E O U T	Turn off and on the power. Updating starts automatically.
5D	DSP, PLD etc. failed to receive firmware for rewriting sent from DM860A (when an error occurred).	DSP U P D A T E E R R O R	Turn off and on the power. Updating starts automatically.
5E	Data in firmware such as DSP and PLD for rewriting sent from DM860A was invalid (when a Check Sum error occurred).	DSP U P D A T E C H E C K S U M E R R O R	Turn off and on the power. Updating starts automatically.
5F	Invalid data in firmware such as DSP and PLD for rewriting sent from DM860A was invalid (invalid data was received).	DSP U P D A T E I N V A L I D D A T A	Turn off and on the power. Updating starts automatically.
60	NACK was received when "P" command sent to DSP, PLD etc.	DSP P O W E R O F F A N D O N	Turn off and on the power. Updating starts automatically.
61	NACK was received when "I" command sent to DSP, PLD etc.	DSP I N V A L I D C O M M A N D	Turn off and on the power. Updating starts automatically.
80	Acquisition of serial flash data failed before serial flash was deleted.	DFU U P D A T E F A I L E D	Turn off and on the power. Updating starts automatically.
81	Deleting data failed before serial flash was rewritten.	DFU D E L E T E F A I L E D	Turn off and on the power. Updating starts automatically.
82	Receiving firmware for rewriting serial flash sent by DM860A failed (when timed out).	DFU R E C E I V I N G F I R M W A R E T I M E O U T	Turn off and on the power. Updating starts automatically.
83	Receiving firmware for rewriting serial flash sent by DM860A failed (when an error).	DFU R E C E I V I N G F I R M W A R E E R R O R	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).	DFU R E C E I V I N G F I R M W A R E C H E C K S U M E R R O R	Turn off and on the power. Updating starts automatically.

Error Code	Details of Error code	Display (Eight digits or more are the scrolling displays.)	Coping strategies
85	Receiving firmware for rewriting serial flash sent by DM860A failed (when invalid data was received).	<pre>       00000005       UpdAt:ng       Failed           </pre>	Turn off and on the power. Updating starts automatically.
86	The data verification was invalid after serial flash was rewritten.	<pre>       00000006       UpdAt:ng       Failed           </pre>	Turn off and on the power. Updating starts automatically.
A0	Acquisition of (Application Mode) IP address failed before DM860A was rewritten (AutoIP).	<pre>       EIMG00A0       Connect       Failed           </pre>	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 DM860A was rewritten (when timed out).	<pre>       EIMG00A1       Connect       Failed           </pre>	Check the network connection. Carry out the update in an environment that has little network load.
A2	Invalid login via DPMS access was notified when DM860A related firmware was rewritten (Application Mode).	<pre>       EIMG00A2       Login       Failed           </pre>	Check the network connection. Carry out the update in an environment that has little network load.
A3	Line congestion via DPMS access was notified when DM860A related firmware was rewritten (Application Mode).	<pre>       EIMG00A3       Server       Busy           </pre>	Check the network connection. Carry out the update in an environment that has little network load.
A4	Connection failure via DPMS access was notified when DM860A related firmware was rewritten (Application Mode).	<pre>       EIMG00A4       Connect       Failed           </pre>	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).	<pre>       EIMG00A6       UpdAt:ng       Failed           </pre>	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.	<pre>       EIMG00A7       UpdAt:ng       Failed           </pre>	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
AE	Firmware download error message received (when download fails) when DM860A related firmware was rewritten (Boot Loader Mode).	<pre>       EIMG00AE       Download       Failed           </pre>	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).	<pre>       EIMG00AF       Download       Failed           </pre>	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).	<pre>       EIMG00B0       Download       Failed           </pre>	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B1	DM860A related firmware download error message. (Timeout failure)	<pre>       EIMG00B1       Download       Failed           </pre>	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.	<pre>       EIMG00B2       UpdAt:ng       Failed           </pre>	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 (Eight digits or more are the scrolling displays.)	Coping strategies
B3	Firmware writing error message. (Timeout failure )	<pre> E I M G U P L D W : P e d </pre>	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. (Boot Loader Mode)	<pre> E I M G U P L D W : P e d </pre>	Reset and update again.
B5	Mode change failure of DM860A. (Application Mode)	<pre> E I M G U P L D W : P e d </pre>	Reset and update again.

### Device display during firmware update

Display of target device during firmware update.

Target device	Display	Error code when an error occurs
Main	<pre> Main ***n in **% </pre>	08 - 0C 10 - 15 22 - 24 36 - 3E
Audio PLD	<pre> APLD ***n in **% </pre>	50 - 52 54 - 58 5A - 61
DSP	<pre> DSP ***n in **% </pre>	50 - 52 54 - 58 5A - 61
GUI Serial Flash	<pre> GUI ***n in **% </pre>	50 - 52 54 - 58 5A - 61 80 - 86
DM860A Boot Loader	<pre> ESBL ***n in *** </pre>	A0 - A4 A6 - A7 AE - B5
DM860A Image	<pre> EIMG ***n in *** </pre>	A0 - A4 A6 - A7 AE - B5
DM860A Image (Emergency Mode)	<pre> Update Retry </pre>	-

### Confirming the firmware's number after upgraded

After updating the firmware, check the version. Refer to "1. µcom/DSP Version display mode" (24 page).

### 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 USB Memory

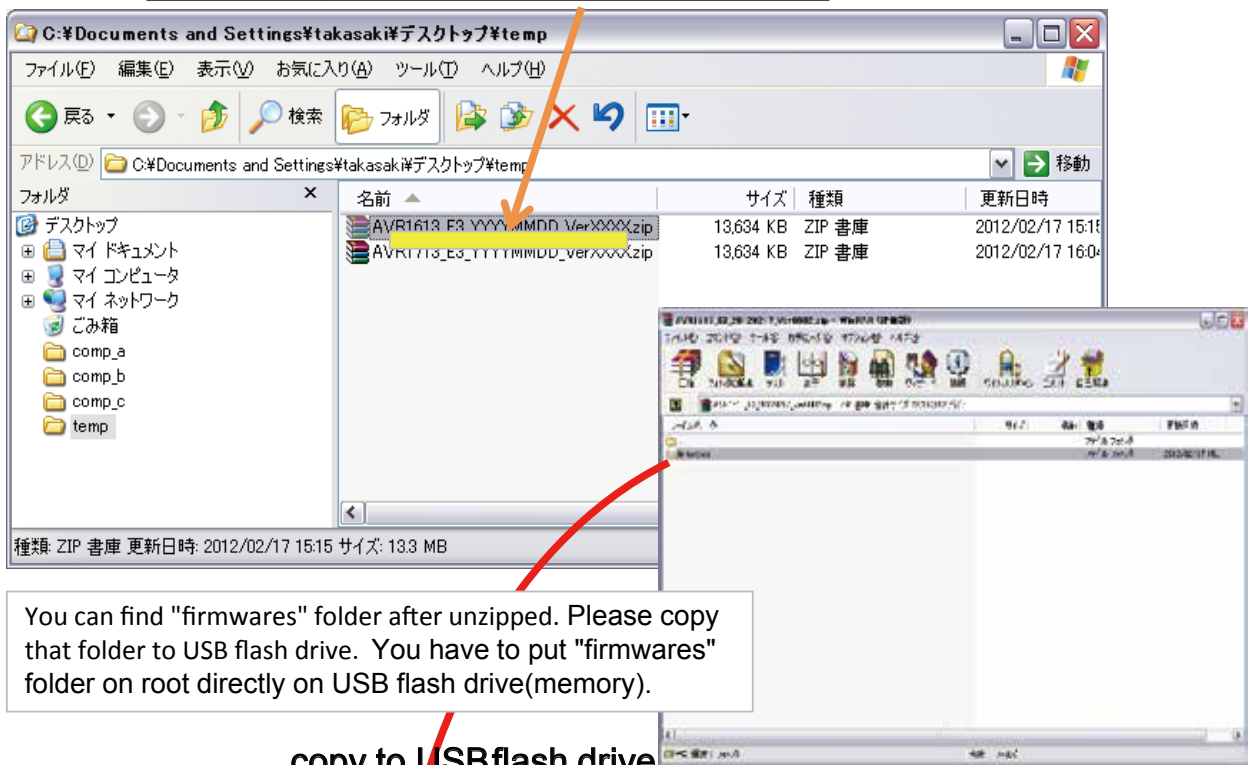
(1) Requirements

- The USB memory device format should be set to FAT16 or FAT32.
- 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.

#### 3.2. Unzip Download File

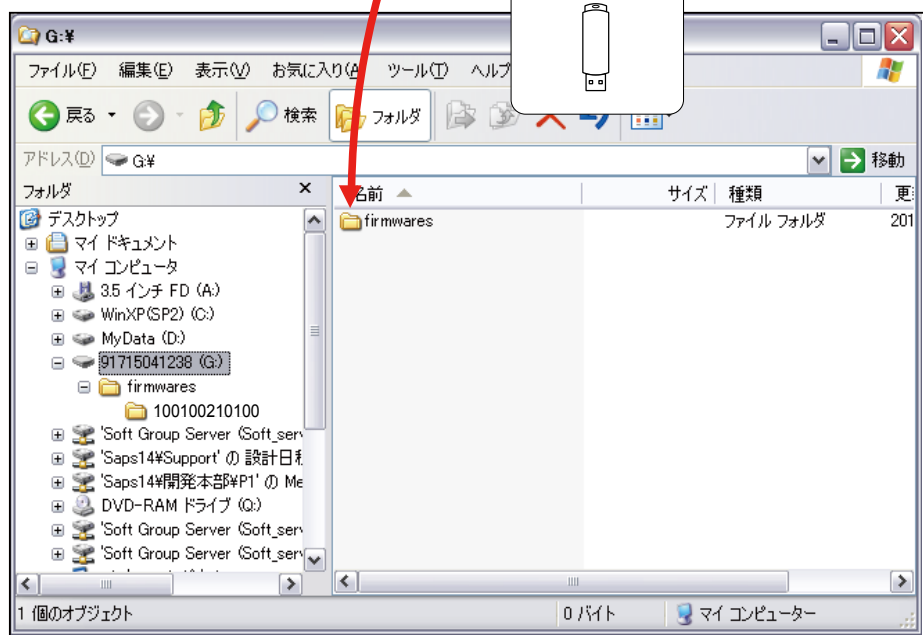
Please unzip the downloaded file on PC.

SR5008U USB\_SR5008U\_100100210100.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 USBflash drive



USB location is below

USB memory root

Model Name	Model Area	Product ID
SR5008U	North America (U)	100100210100
SR5008N	Europe (N)	100100210200
SR5008K	China (K)	100100210500

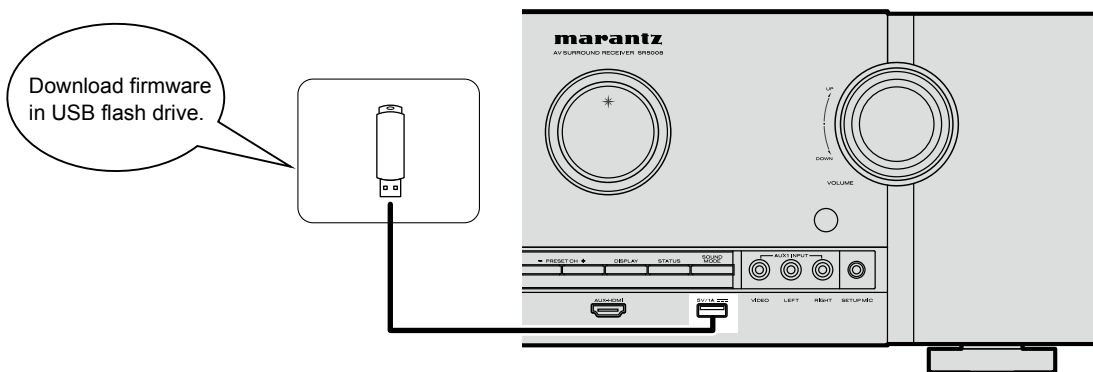
+ firmwares

- + 100100210100
  - + APLD.bin
  - + DSP.bin
  - + enc\_update.xml
  - + GUI.bin
  - + IMG.bcd
  - + MAIN.bin
  - + SBL.bcd



### 3.3. Insert the USB memory into a USB port

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



### 3.4. Start update

Turn on the power of this unit in the "STATUS" + "PRESET CH+" button.

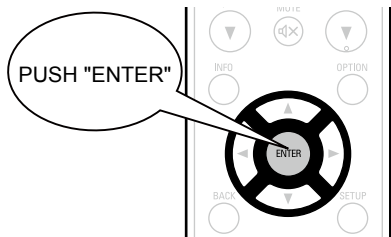
### 3.5. "USB Update Start" on FL Display

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

FL Display

FLD	U	S	B		U	P	d	t
		S	t	a	r	t		

### 3.6. Push "ENTER" key on RC or Main unit



Then start Firmware Update.

FL Display

FLD	U	P	d	a	t	e		
	F	i	e					
	C	h	e	c	k			

### 3.7. Finish firmware update

FL display shows the following message.

FL Display

FLD	U	P	d	a	t	i	n	g
	c	o	m	p	l	e	t	e

--- 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.

### 3.8. 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	Log-in to DPMS failed.	Connect:ionFail 01	Disconnect and connect the USB memory.
02	Line, etc., is busy when logging into DPMS.	FilesNot Found 02	Make sure that the FirmwareFile is in the USB memory.
03	Connection to DPMS failed.	Connect:ionFail 03	Check the supported Model name/area for the FirmwareFile.
04	Firmware file data was requested but error message was received.	Connect:ionFail 04	Start the USB Update again.
05	Firmware file data was requested but it timed out.	Connect:ionFail 05	Start the USB Update again.
06	Firmware file data was requested but error message was received.	Connect:ionFail 06	Start the USB Update again.
07	All firmware file data was requested but it timed out.	Connect:ionFail 07	Start the USB Update again.
08	Firmware file data of Main CPU was requested but error message was received.	Connect:ionFail 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	Firmware file data of Main CPU was requested but it timed out.	Connect:ionFail 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	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.	FilesNot Found 0B	Check the network connection. Carry out the update in an environment that has little network load.
0D	Received Package Version is wrong.	Connect:ionFail 10	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	Main CPU failed to receive firmware for rewriting sent from DM860A (when timed out).	Main CPU Update Failed 10	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	Main CPU failed to receive firmware for rewriting sent from DM860A (when an error occurred).	Main CPU Update Failed 11	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	There was invalid data in the firmware for rewriting sent from DM860A to Main CPU (when a Check Sum error occurred).	Main CPU Update Failed 12	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	The deletion of block data failed before Main CPU was rewritten.	Main CPU Update Failed 13	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	The rewriting of block data failed when Main CPU was rewritten.	Main CPU Update 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	The data verification was invalid after Main CPU was rewritten.	Main CPU Update Check NG	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	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (AutoIP).	Connection fail	Disconnect and connect the USB memory.
21	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (when timed out).	Files Not Found	Disconnect and connect the USB memory.
22	Log-in to DPMS failed.	Not Match Firm	Check the supported Model name/area for the FirmwareFile.
23	Line, etc., is busy when logging into DPMS.	Connection Fail	Disconnect and connect the USB memory.
24	Connection to DPMS failed.	Connection fail	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	Mode change failure of DM860A.	Connection fail	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	Data acquisition failed (timed out) when firmware of Main CPU was downloaded. Received Package Version is wrong.	Download fail	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	Mode change failure of DM860A.	Connection fail	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	Log-in to DPMS failed when Main CPU was rewritten.	Connection fail	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	Line, etc., is busy when logging into DPMS when Main CPU was rewritten.	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.
38	Connection to DPMS failed when Main CPU was rewritten.	Not Match 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	Connection to DPMS timed out when Main CPU was rewritten.	Connection fail	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	Error (NG) message was received when firmware was downloaded or Main CPU was rewritten.	Connection fail	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	Error (line congestion) message received when downloading firmware when Main CPU was rewritten.	Files Not Found 0B	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	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (when timed out).	Main CPU 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	Log-in to DPMS failed when firmware such as DSP and PLD was rewritten.	Connection fail 05	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	Line, etc., is busy when the log-in to DPMS when firmware such as DSP and PLD was rewritten.	Files Not Found 04	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	Connection to DPMS failed when firmware such as DSP and PLD was rewritten.	Not match firm 02	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 message received regarding firmware data after the log-in to DPMS when firmware such as DSP and PLD was rewritten.	DSP Update Failed 04	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	When firmware such as DSP and PLD was rewritten, request was made for firmware data after the log-in to DPMS, but it timed out.	DSP Update Failed 05	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	Downloading firmware failed after the log-in to DPMS when firmware such as DSP and PLD was rewritten.	Connection fail 06	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	Firmware download error received (line congestion) after the log-in to DPMS when firmware such as DSP and PLD was rewritten.	Files Not Found 07	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	NACK was received when "C" command sent to DSP, PLD etc.	DSP Connect Failed 0A	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 was received when "L" command sent to DSP, PLD etc.	DSP Update Failed 0B	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	DSP, PLD etc. failed to receive firmware for rewriting sent from DM860A (when timed out).	DSP Update Failed 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.
5D	DSP, PLD etc. failed to receive firmware for rewriting sent from DM860A (when an error occurred).	DSP Update Failed 0D	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	Data in firmware such as DSP and PLD for rewriting sent from DM860A was invalid (when a Check Sum error occurred).	DSP Update Failed 0E	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	Invalid data in firmware such as DSP and PLD for rewriting sent from DM860A was invalid (invalid data was received).	DSP       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 was received when "P" command sent to DSP, PLD etc.	DSP       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	NACK was received when "I" command sent to DSP, PLD etc.	DSP       61 Update 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	NACK was received when "P" command sent to DSP, PLD etc.	DSP       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	NACK was received when "I" command sent to DSP, PLD etc.	DSP       63 Update 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.
64	NACK was received when "I" command sent to DSP, PLD etc.	DSP       64 Update 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.
80	Acquisition of serial flash data failed before serial flash was deleted.	GET       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	Deleting data failed before serial flash was rewritten.	GET       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	Receiving firmware for rewriting serial flash sent by DM860A failed (when timed out).	GET       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	Receiving firmware for rewriting serial flash sent by DM860A failed (when an error).	GET       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	Receiving firmware for rewriting serial flash sent by DM860A failed (when a Check Sum error).	GET       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	Receiving firmware for rewriting serial flash sent by DM860A failed (when invalid data was received).	GET       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	The data verification was invalid after serial flash was rewritten.	GET       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	Invalid login via DPMS access was notified when DM860A related firmware was rewritten (Application Mode).	Connection fail A2	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	Line congestion via DPMS access was notified when DM860A related firmware was rewritten (Application Mode).	F I R E W O R D N O T F O U N D	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	Connection failure via DPMS access was notified when DM860A related firmware was rewritten (Application Mode).	N O T C O N N E C T E D	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	Firmware data error message was received after DPMS login when DM860A related firmware was rewritten (Application Mode).	F I R M W A R E D A T A E R R O R	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	When DM860A related firmware was rewritten (Application Mode), request was made for firmware data after DPMS login but it timed out.	F I R M W A R E D A T A T I M E O U T	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	Firmware download error message received (when download fails) when DM860A related firmware was rewritten (Boot Loader Mode).	C O N N E C T I O N F A I L	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	Firmware download error message received (line congestion) when DM860A related firmware was rewritten (Boot Loader Mode).	F I R E W O R D N O T F O U N D	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	DM860A related firmware download error message. (Timeout failure)	D O W N L O A D F A I L	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 message received when DM860A related firmware was rewritten.	F I R M W A R E E R R O R	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	Firmware writing error message. (Timeout failure)	F I R M W A R E W R I T I N G E R R O R	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	Mode change failure of DM860A. (Boot Loader Mode)	F I R M W A R E M O D E C H A N G E F A I L	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	Mode change failure of DM860A. (Application Mode)	F I R M W A R E M O D E C H A N G E F A I L	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.

### 3.9. Device display during firmware update

Display of target device during firmware update.

Target device	Display	Error code when an error occurs
Main	<pre> Main ***nln ***% </pre>	08 - 0C 10 - 15 22 - 24 36 - 3E
Audio PLD	<pre> APLD ***nln ***% </pre>	50 - 52 54 - 58 5A - 61
DSP	<pre> DSP ***nln ***% </pre>	50 - 52 54 - 58 5A - 61
GUI Serial Flash	<pre> GUI ***nln ***% </pre>	50 - 52 54 - 58 5A - 61 80 - 86
DM860A Boot Loader	<pre> ESBL ***nln *** </pre>	A0 - A4 A6 - A7 AE - B5
DM860A Image	<pre> EIMG ***nln *** </pre>	A0 - A4 A6 - A7 AE - B5
DM860A Image (Emergency Mode)	<pre> Update Retry </pre>	-

### Confirming the firmware's number after upgraded

After updating the firmware, check the version. Refer to "1. [µcom/DSP Version display mode](#)" (24 page )

# ADJUSTMENT

## Audio Section

### Adjusting Idling Current

Required measurement equipment: DC Voltmeter

#### 1. Preparation

- (1) Temperature should be at avoid direct blow from an air conditioner or an electric fan and humidity should be moderate, and place the set at normal usage environment.

15 °C ~ 30 °C (59 °F ~ 86 °F)

#### (2) Presetting

- POWER (Power source switch)                   STANDBY
- SPEAKER (Speaker terminal)               No load

(Do not connect speaker, dummy resistor, etc.)

#### 2. Adjustment

- (1) Remove the top cover and set VR401, VR402, VR403, VR404, VR405, VR406, VR407 on at fully 7CH AMP UNIT at fully counterclockwise (⊖) position.

- (2) Connect DC Voltmeter to test points (FRONT-Lch: TP401, FRONT-Rch: TP402, CENTER ch: TP403, SURROUND-Lch: TP404, SURROUND-Rch: TP405, SURROUND-BACK Lch: TP406, SURROUND-BACK Rch: TP407.

- (3) Connect the power cord to AC Line, and set the power switch to **"ON"**.

#### (4) Presetting.

MASTER VOLUME : "---" counterclockwise (⊖ min.)

SPEAKER (Speaker terminal) : No load

(Do not connect speaker, dummy resistor, etc.)

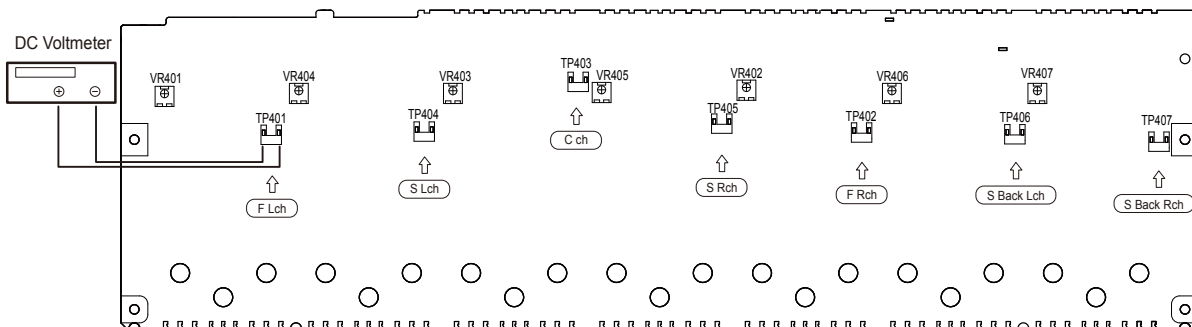
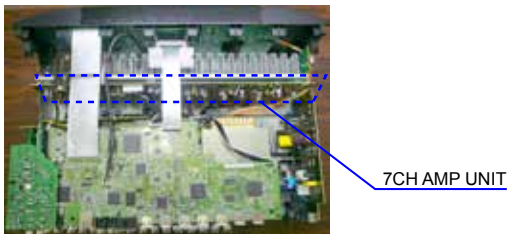
MODE : MCH STEREO

FUNCTION : DVD

- (5) Within 2 minutes after the power on, turn VR401 clockwise (⊕) to adjust the TEST POINT voltage to  $6.5\text{mV} \pm 0.5\text{mV DC}$ .

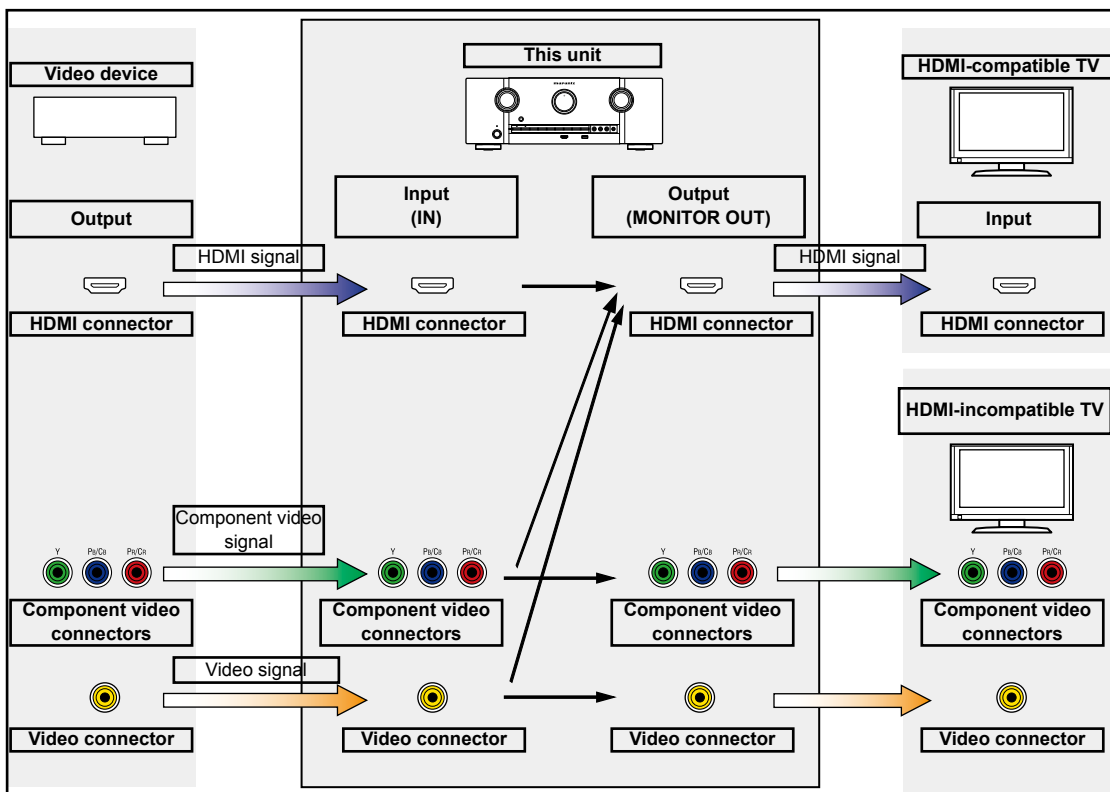
- (6) After 10 minutes from the preset above, turn VR401 to set the voltage to  $8.0\text{mV} \pm 0.5\text{mV DC}$ .

- (7) Adjust the Variable Resistors of each channel in the same way.



# VIDEO CONVERSION FUNCTION

This unit automatically converts the input video signals as shown in the diagram below before outputting them to the TV.



The main zone video conversion function is compatible with the following formats: NTSC, PAL, SECAM, NTSC4.43, PAL-N, PAL-M and PAL-60.

This unit can convert the input video signals to the resolution that is set for "Resolution" in the menu before outputting them to the TV.

Input signal	Output signal	HDMI						
		480i/576i	480p/576p	720p	1080i	1080p	1080p 24Hz	4K 30/25/24Hz
HDMI	480i/576i	✓	✓	✓	✓	✓	✓	✓
	480p/576p		✓	✓	✓	✓	✓	✓
	720p			✓	✓	✓	✓	✓
	1080i			✓	✓	✓	✓	✓
	1080p 24Hz					✓	✓	✓
	1080p					✓	✓	✓
	4K 30/25/24Hz							✓
Component Video	480i/576i	✓	✓	✓	✓	✓	✓	✓
	480p/576p		✓	✓	✓	✓	✓	✓
	720p			✓	✓	✓	✓	✓
	1080i			✓	✓	✓	✓	✓
	1080p				✓	✓	✓	✓
Video	480i/576i	✓	✓	✓	✓	✓	✓	✓

# SOUND MODES AND CHANNEL OUTPUT

- 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					
	Front L/R	Center	Surround L/R	Surround back L/R	Front height L/R	Subwoofer
DIRECT/PURE DIRECT (2-channel)	○					⊙*3
DIRECT/PURE DIRECT (Multi-channel)	○	⊙	⊙	⊙*1	⊙*1	⊙
STEREO	○					⊙
MULTI CH IN	○	⊙	⊙	⊙*1		⊙
DOLBY PRO LOGIC IIz	○	⊙	⊙		⊙*2	⊙
DOLBY PRO LOGIC IIx	○	⊙	⊙	⊙		⊙
DOLBY PRO LOGIC II	○	⊙	⊙			⊙
DTS NEO:6	○	⊙	⊙	⊙		⊙
DOLBY DIGITAL	○	⊙	⊙	⊙	⊙*2	⊙
DOLBY DIGITAL Plus	○	⊙	⊙	⊙*1	⊙*1	⊙
DOLBY TrueHD	○	⊙	⊙	⊙*1	⊙*1	⊙
DTS SURROUND	○	⊙	⊙	⊙	⊙*2	⊙
DTS 96/24	○	⊙	⊙	⊙	⊙*2	⊙
DTS-HD	○	⊙	⊙	⊙*1	⊙*1	⊙
DTS Express	○	⊙	⊙	⊙	⊙*2	⊙
MULTI CH STEREO	○	⊙	⊙	⊙	⊙	⊙
VIRTUAL	○					⊙

- \*1 A signal for each channel contained in an input signal is output as audio.
- \*2 Audio is output when the set surround mode name contains "+PLIIz".
- \*3 Audio is output when "Subwoofer Mode" in the menu is set to "LFE+Main".

# SOUND MODES AND SURROUND PARAMETERS

Sound mode	Surround Parameter						
	Dialog Level	Subwoofer Level	Home Theater EQ	Loudness Management *1	Dynamic Compression *2	Low Frequency Effects *3	Height Gain *4
DIRECT/PURE DIRECT (2-channel)*5		○*6		○	○		
DIRECT/PURE DIRECT (Multi-channel)*5	○	○		○	○		
STEREO		○		○	○	○	
MULTI CH IN	○	○	○			○	○
DOLBY PRO LOGIC IIz	○	○	○	○	○		○
DOLBY PRO LOGIC IIx	○	○	○	○	○		
DOLBY PRO LOGIC II	○	○	○	○	○		
DTS NEO:6	○	○	○	○	○		
DOLBY DIGITAL	○	○	○		○	○	○
DOLBY DIGITAL Plus	○	○	○		○	○	○
DOLBY TrueHD	○	○	○	○	○	○	○
DTS SURROUND	○	○	○		○	○	○
DTS 96/24	○	○	○			○	○
DTS-HD	○	○	○			○	○
DTS Express	○	○	○			○	○
MULTI CH STEREO	○	○	○	○	○	○	
VIRTUAL		○		○	○	○	

\*1 - \*6 :

Sound mode	Surround Parameter				Tone *7	Audyssey			M-DAX *10
	PRO LOGIC II/IIx Music mode only			NEO:6 Music mode only		MultEQ® XT *8	Dynamic EQ *9	Dynamic Volume *9	
	Panorama	Dimension	Center Width	Center Image					
DIRECT/PURE DIRECT (2-channel)*5									
DIRECT/PURE DIRECT (Multi-channel)*5									
STEREO					○	○	○	○	○
MULTI CH IN					○	○	○	○	
DOLBY PRO LOGIC IIz					○	○	○	○	○
DOLBY PRO LOGIC IIx	○	○	○		○	○	○	○	○
DOLBY PRO LOGIC II	○	○	○		○	○	○	○	○
DTS NEO:6				○	○	○	○	○	○
DOLBY DIGITAL					○	○	○	○	
DOLBY DIGITAL Plus					○	○	○	○	
DOLBY TrueHD					○	○	○	○	
DTS SURROUND					○	○	○	○	
DTS 96/24					○	○	○	○	
DTS-HD					○	○	○	○	
DTS Express					○	○	○	○	
MULTI CH STEREO					○	○	○	○	○
VIRTUAL					○	○	○	○	○

- \*1 This item can be selected when a Dolby TrueHD signal is played.
- \*2 This item can be selected when a Dolby Digital or DTS signal is played.
- \*3 This item can be selected when a Dolby Digital or DTS signal or DVD-Audio is played.
- \*4 This setting is available when the set sound mode name contains "+PLIIz".
- \*5 During playback in PURE DIRECT mode, the surround parameters are the same as in DIRECT mode.
- \*6 Audio is output when "Subwoofer Mode" in the menu is set to "LFE+Main".
- \*7 This item cannot be set when "Dynamic EQ" is set to "On".
- \*8 This item cannot be set when Audyssey® Setup (Speaker Calibration) has not been performed.
- \*9 This item cannot be set when "MultEQ® XT" is set to "Off" or "Graphic EQ".
- \*10 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 indicates the default sound mode.
- This indicates the selectable sound mode.

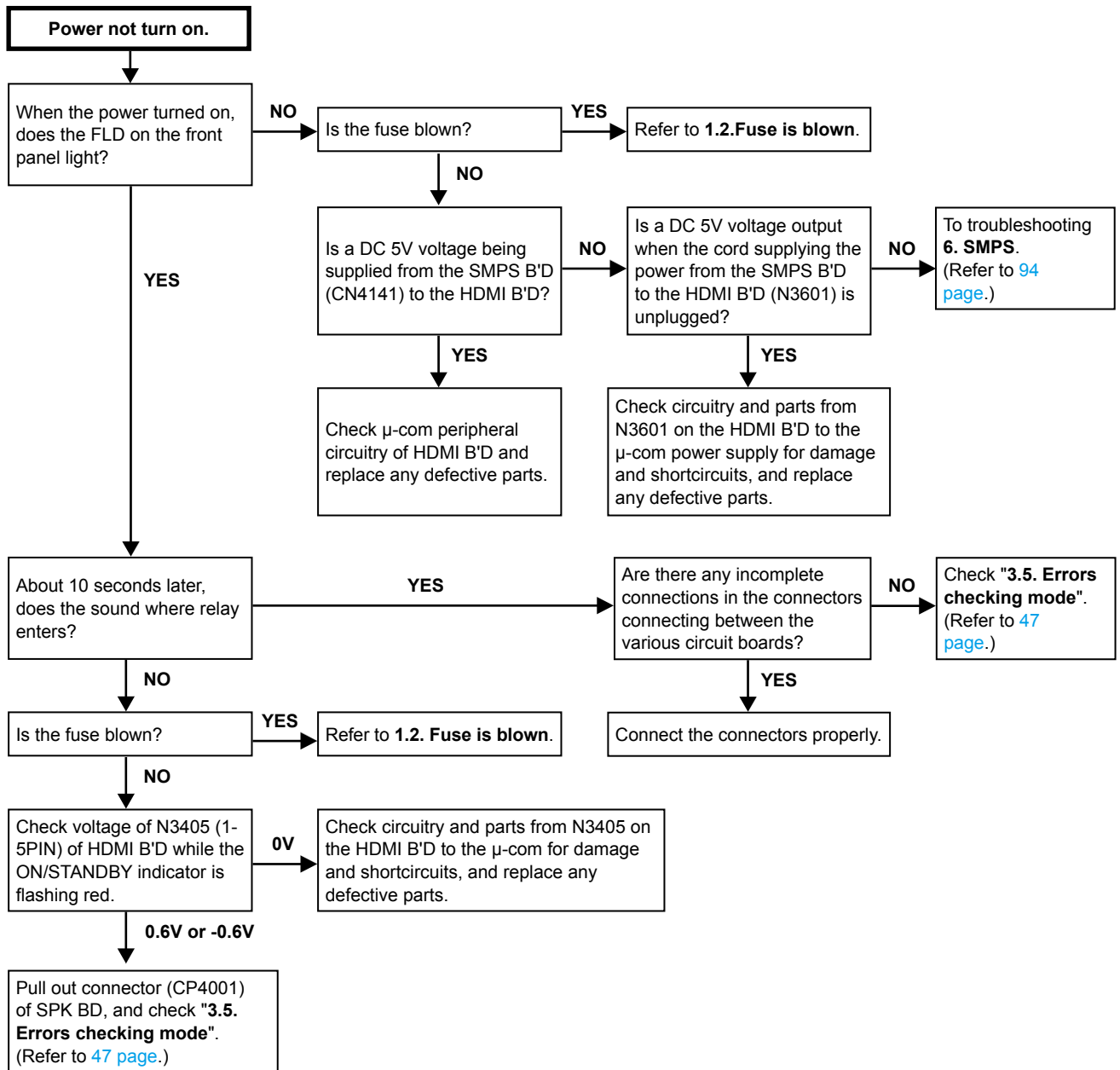
Sound mode	NOTE	2-channel signal		Multi-channel signal									
		Analog / PCM	Dolby Digital (+/HD) / DTS (-HD)	PCM Multi	DTS-HD	DTS Express	DTS ES DSCRT 6.1	DTS ES MTRIX 6.1	DTS	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX	DOLBY DIGITAL
<b>DTS SURROUND</b>													
DTS-HD MSTR					●*6								
DTS-HD HI RES					●*7								
DTS ES DSCRT6.1	*1						●						
DTS ES MTRX6.1	*1							●					
DTS SURROUND									●				
DTS 96/24										●*8			
DTS (-HD) + PLIIx	*1*2				○	○				○			
DTS (-HD) + PLIIz	*3				○	○	○	○	○	○			
DTS Express						●							
DTS NEO:6	*4	○	○										
<b>DOLBY SURROUND</b>													
DOLBY TrueHD										●			
DOLBY DIGITAL+											●		
DOLBY DIGITAL EX	*1											○	○
DOLBY (D+) (HD) +EX	*1									○	○		
DOLBY DIGITAL												●	●
DOLBY (D) (D+) (HD) + PLIIx	*1*2									○	○	○	○
DOLBY (D) (D+) (HD) + PLIIz	*3									○	○	○	○
DOLBY PRO LOGIC II/IIx	*5	○	○										
DOLBY PRO LOGIC IIz	*3	○	○										
<b>MULTI CH IN</b>													
MULTI CH IN				●									
MULTI CH IN + DOLBY EX	*1			○									
MULTI CH IN + PLIIx	*1*2			○									
MULTI CH IN + PLIIz	*3			○									
MULTI CH IN 7.1	*1			●*10									
<b>DIRECT</b>													
DIRECT		○*9	○	○	○	○	○	○	○	○	○	○	○
<b>PURE DIRECT</b>													
PURE DIRECT		○	○	○	○	○	○	○	○	○	○	○	○
<b>DSP SIMULATION</b>													
MULTI CH STEREO		○	○	○	○	○	○	○	○	○	○	○	○
VIRTUAL		○	○	○	○	○	○	○	○	○	○	○	○
<b>STEREO</b>													
STEREO		○	○	○	○	○	○	○	○	○	○	○	○

- \*1 This item can be selected when surround back speakers are used.
- \*2 The Movie mode or Music mode can be selected. When using a single surround back speaker, the Music mode is used.
- \*3 This item can be selected when front height speakers are used.
- \*4 The Movie mode or Music mode can be selected.
- \*5 The Movie mode, Music mode or Game mode can be selected.
- \*6 This item can be selected when the input signal is DTS-HD MASTER AUDIO.
- \*7 This item can be selected when the input signal is DTS-HD HI RESOLUTION.
- \*8 This item can be selected when the input signal is DTS 96/24.
- \*9 The default sound mode for the AirPlay playback is DIRECT. (Default)
- \*10 This item can be selected when the input signals contain surround back signals.

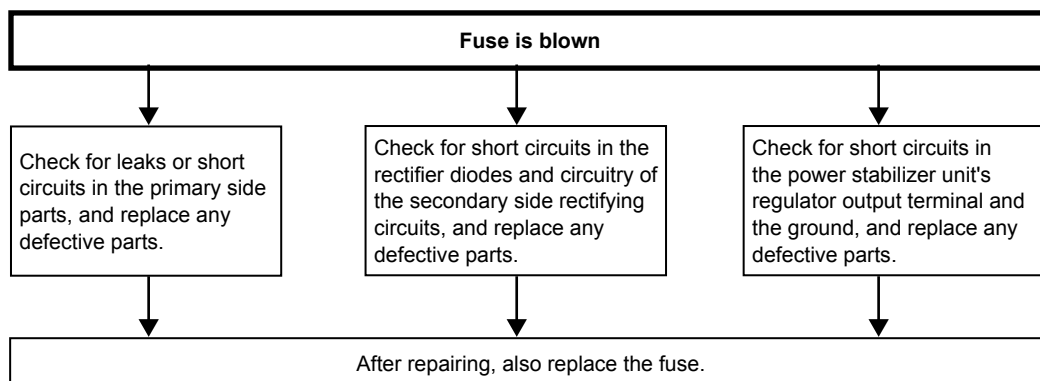
# TROUBLE SHOOTING

## 1. POWER

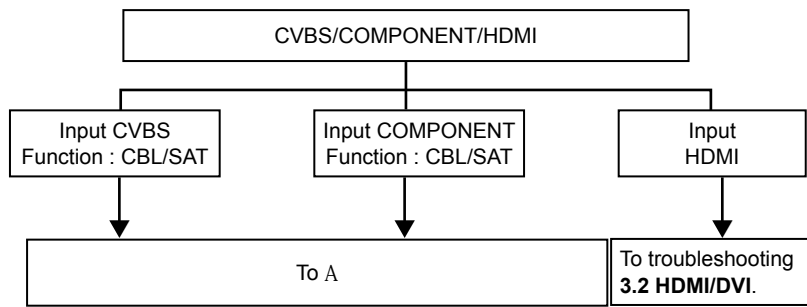
### 1.1. Power not turn on



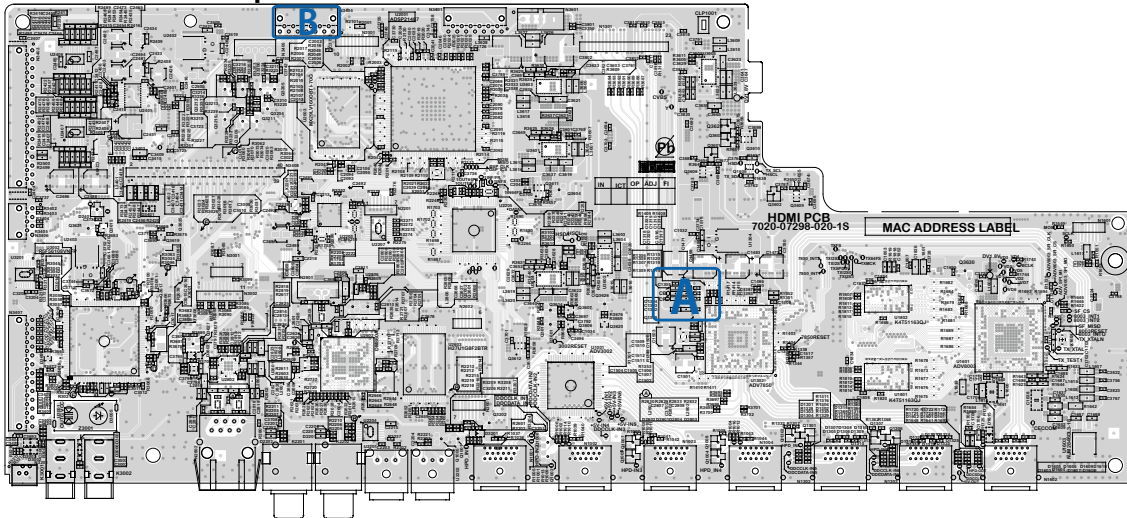
### 1.2. Fuse is blown



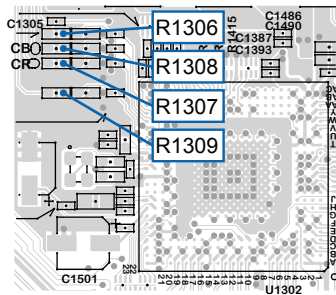
## 2. Analog video



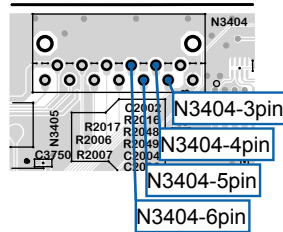
### <HDMI B'D> UNIT test point



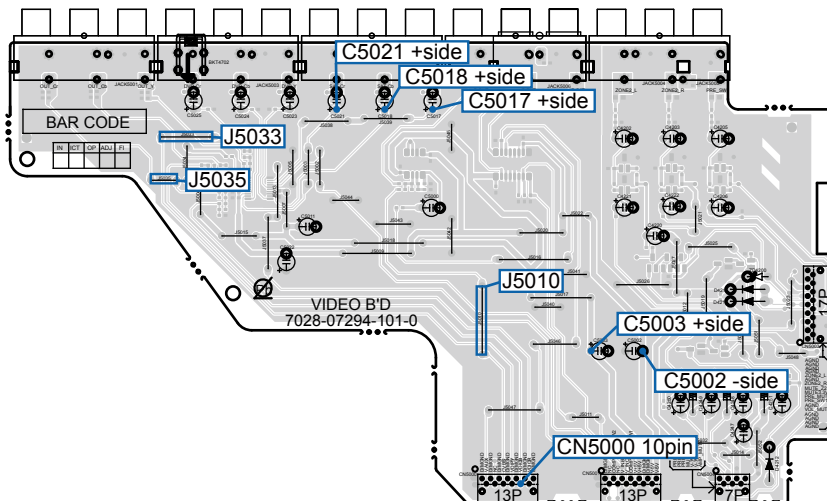
Detail A

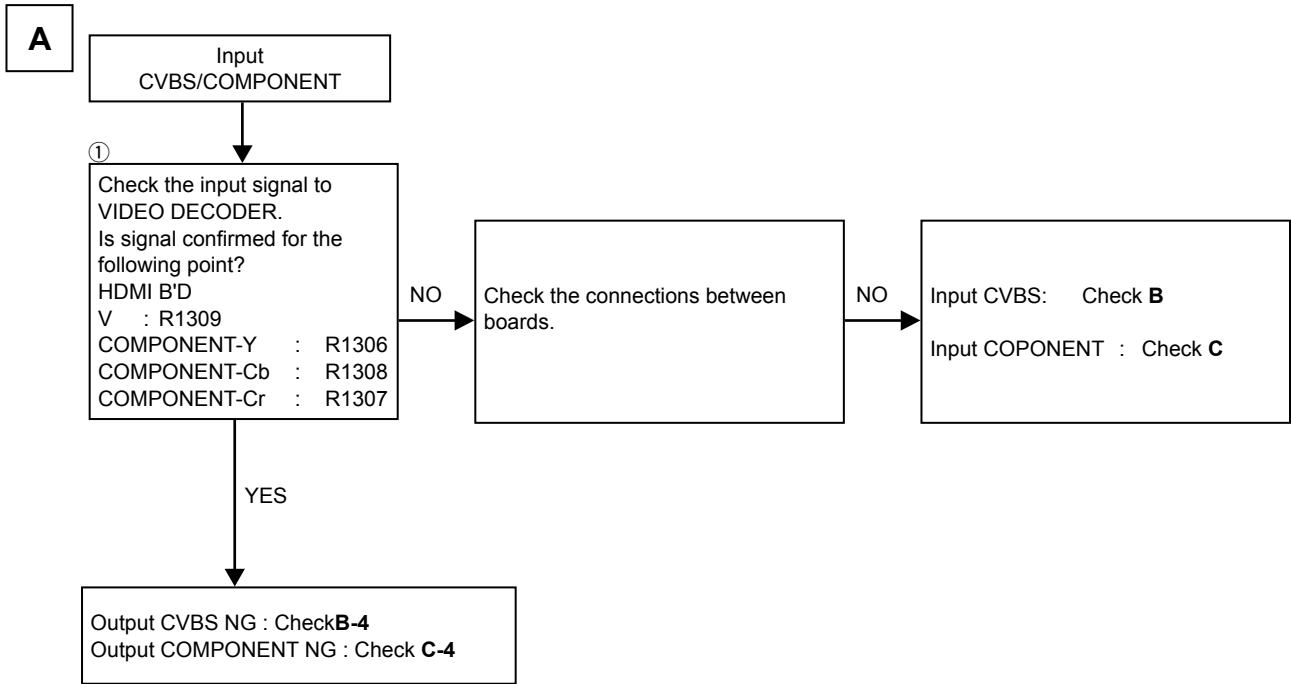


Detail B

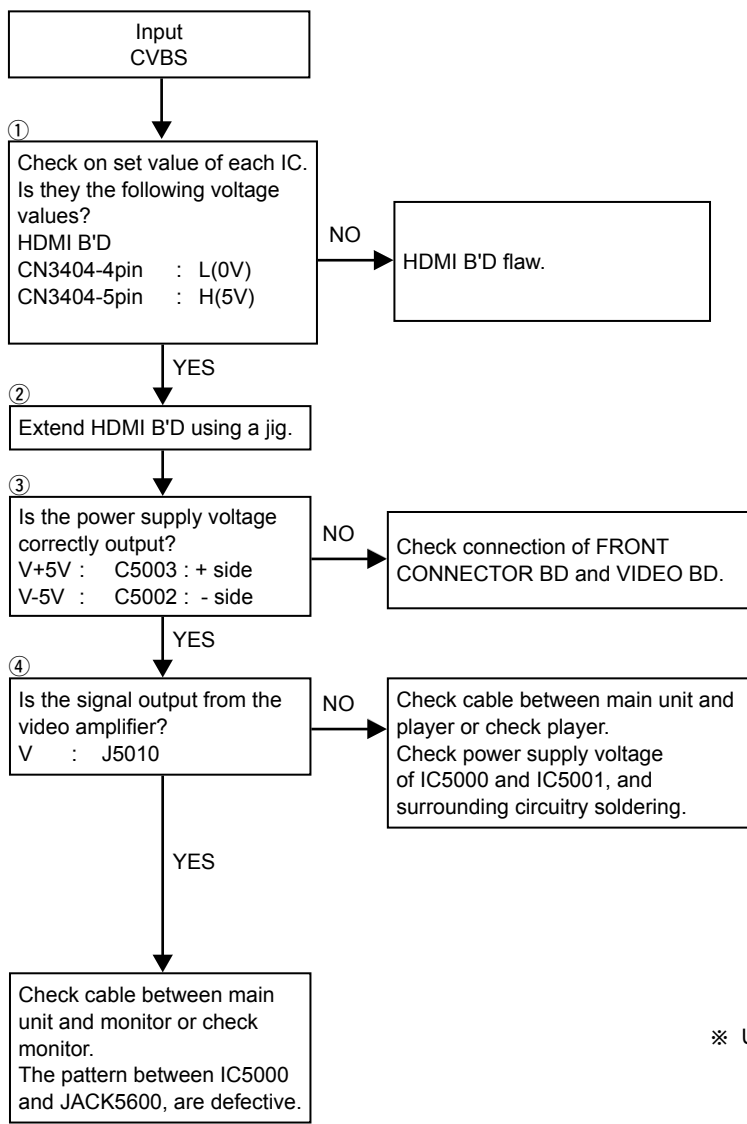


### <VIDEO B'D> UNIT test point

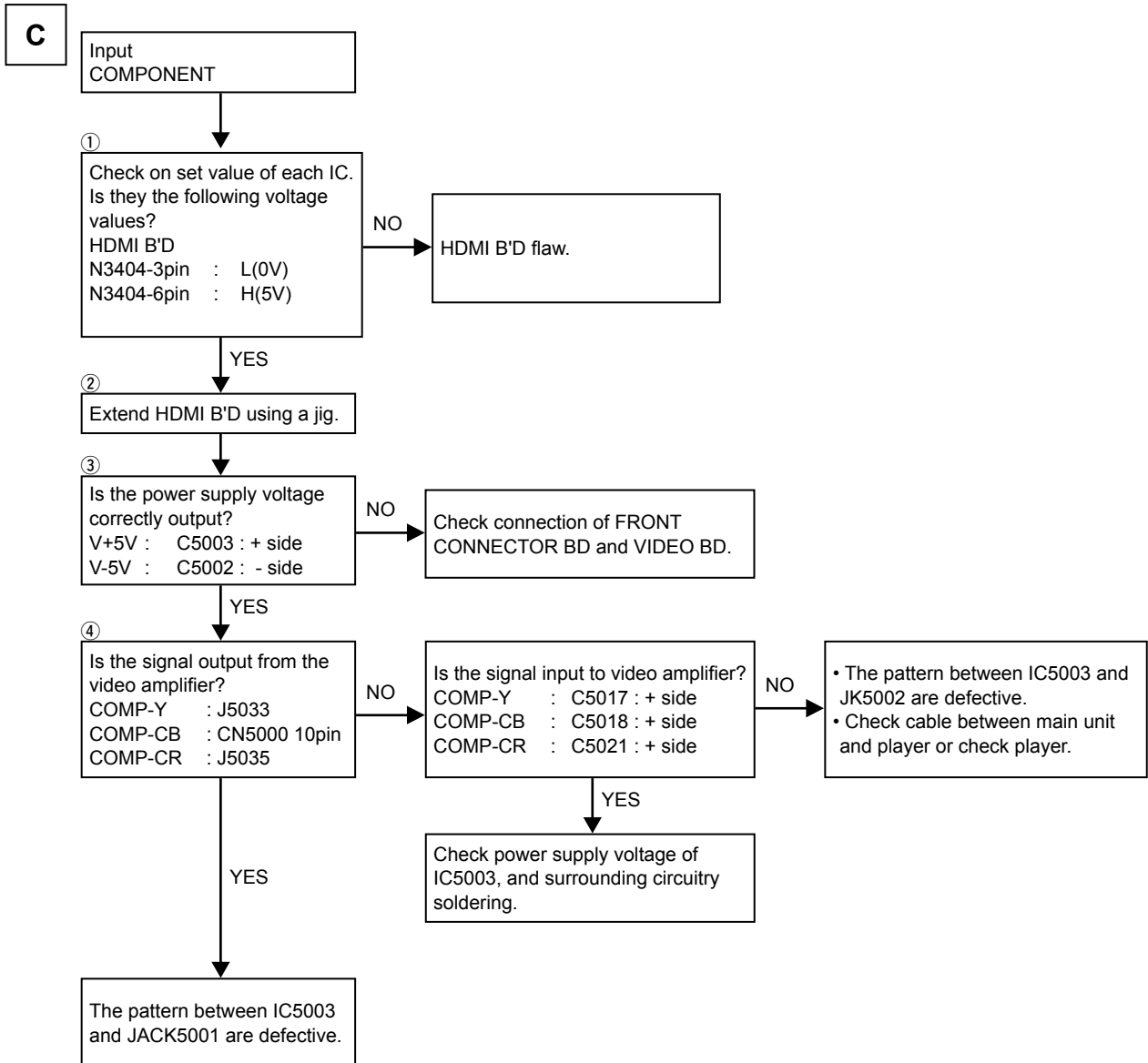




**B**



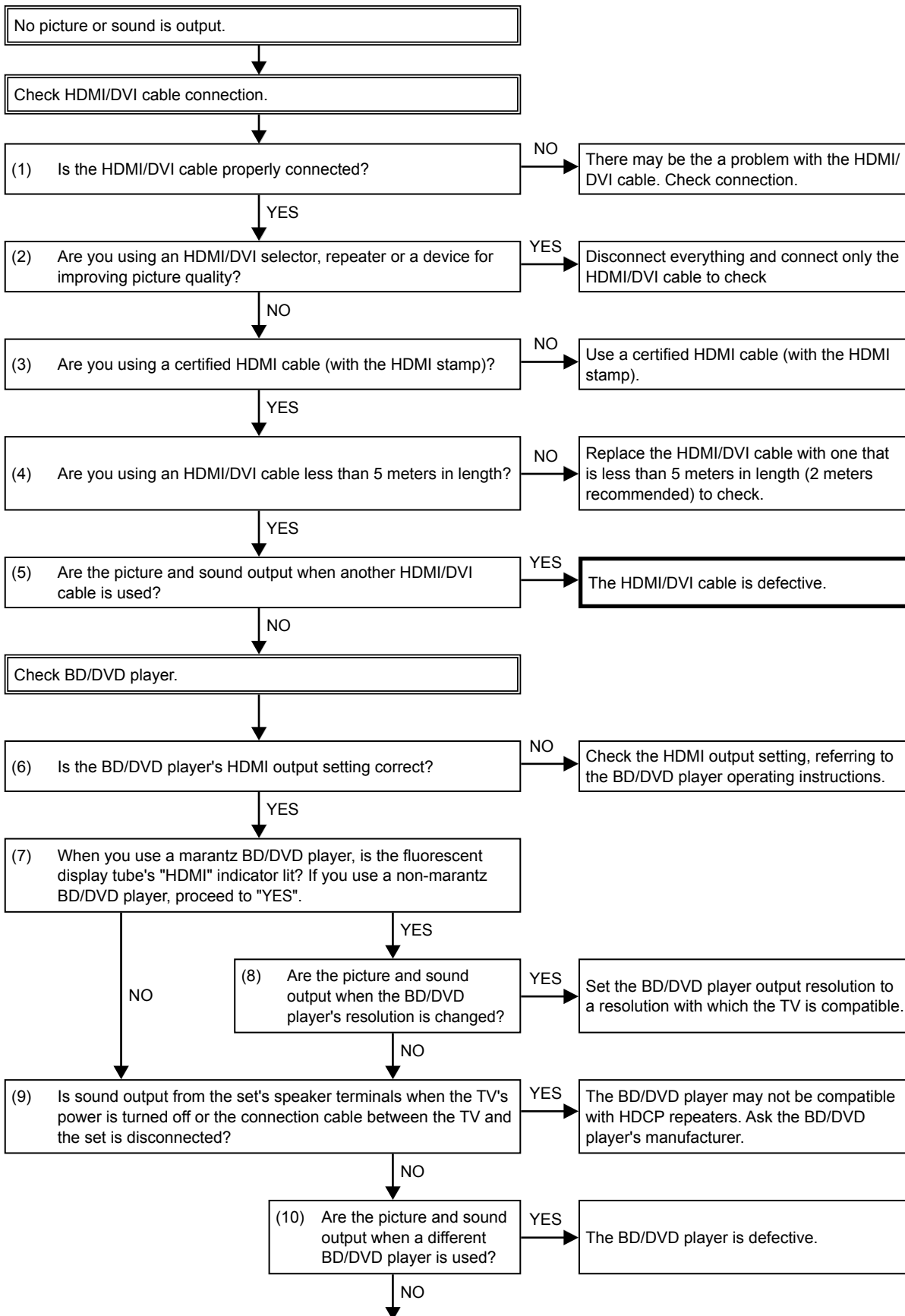
※ Unless specified, VIDEO B'D part.

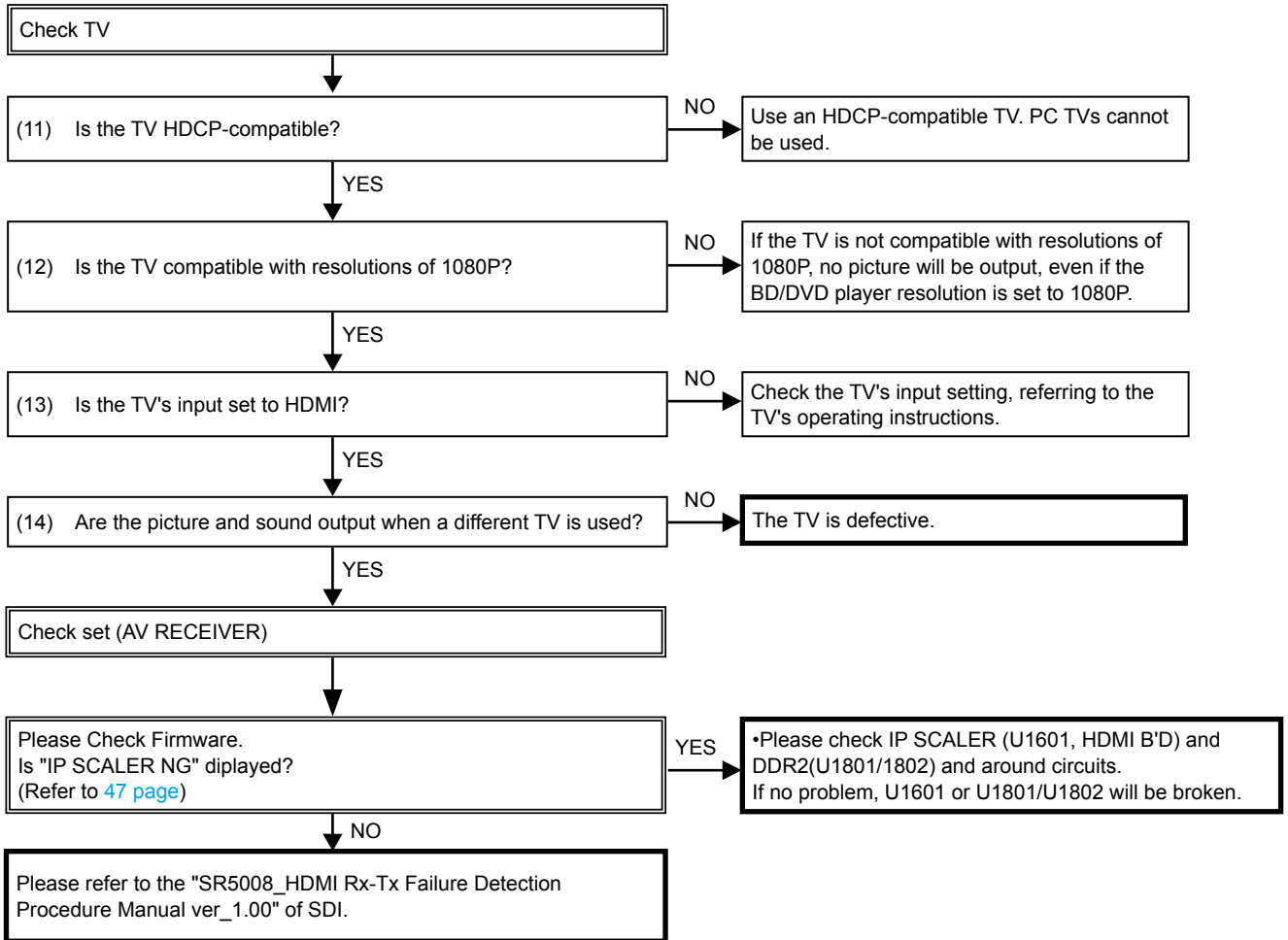


※ Unless specified, VIDEO B'D part.

### 3. HDMI/DVI

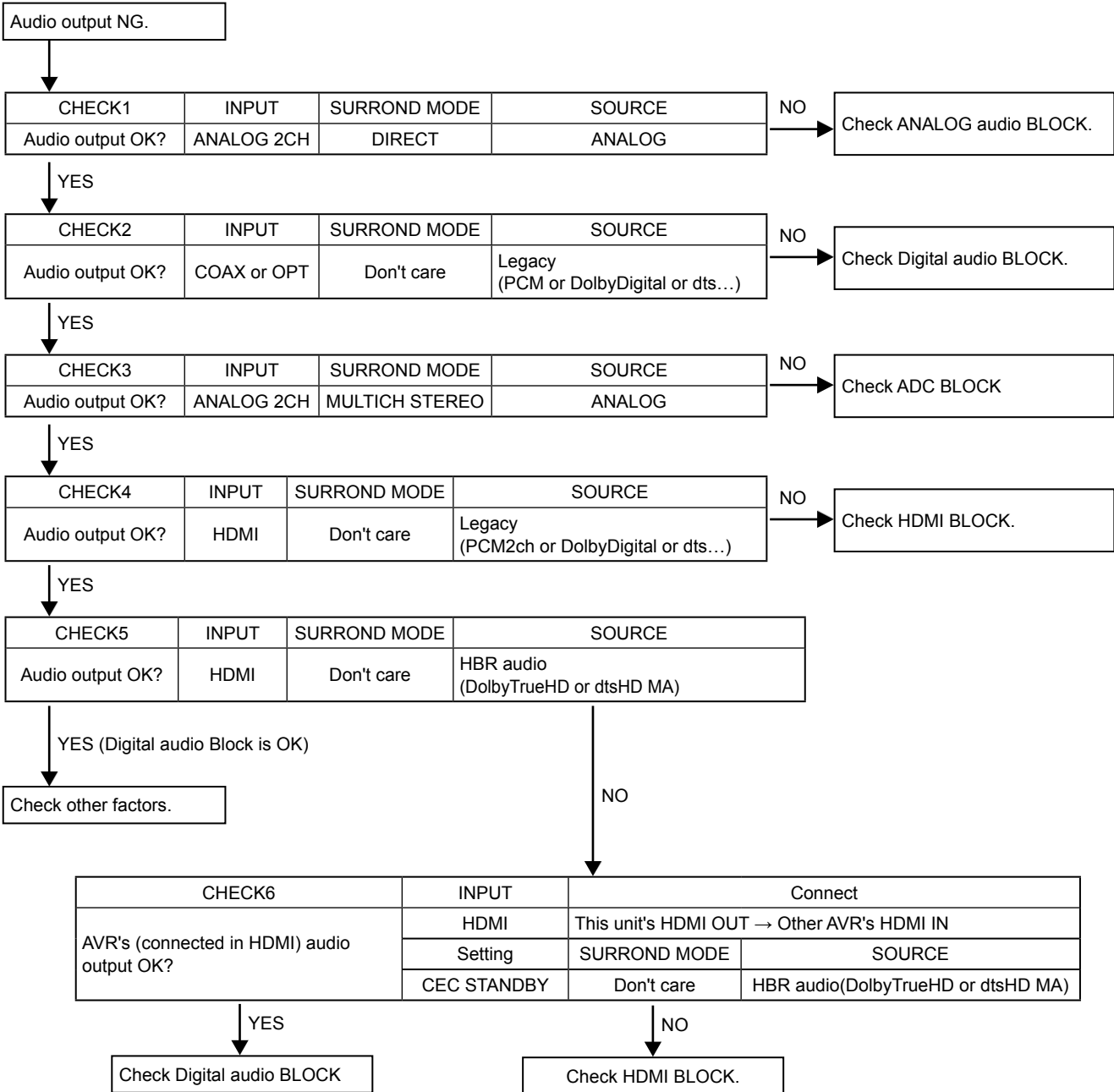
#### 3.1. No picture or sound is output (HDMI to HDMI)



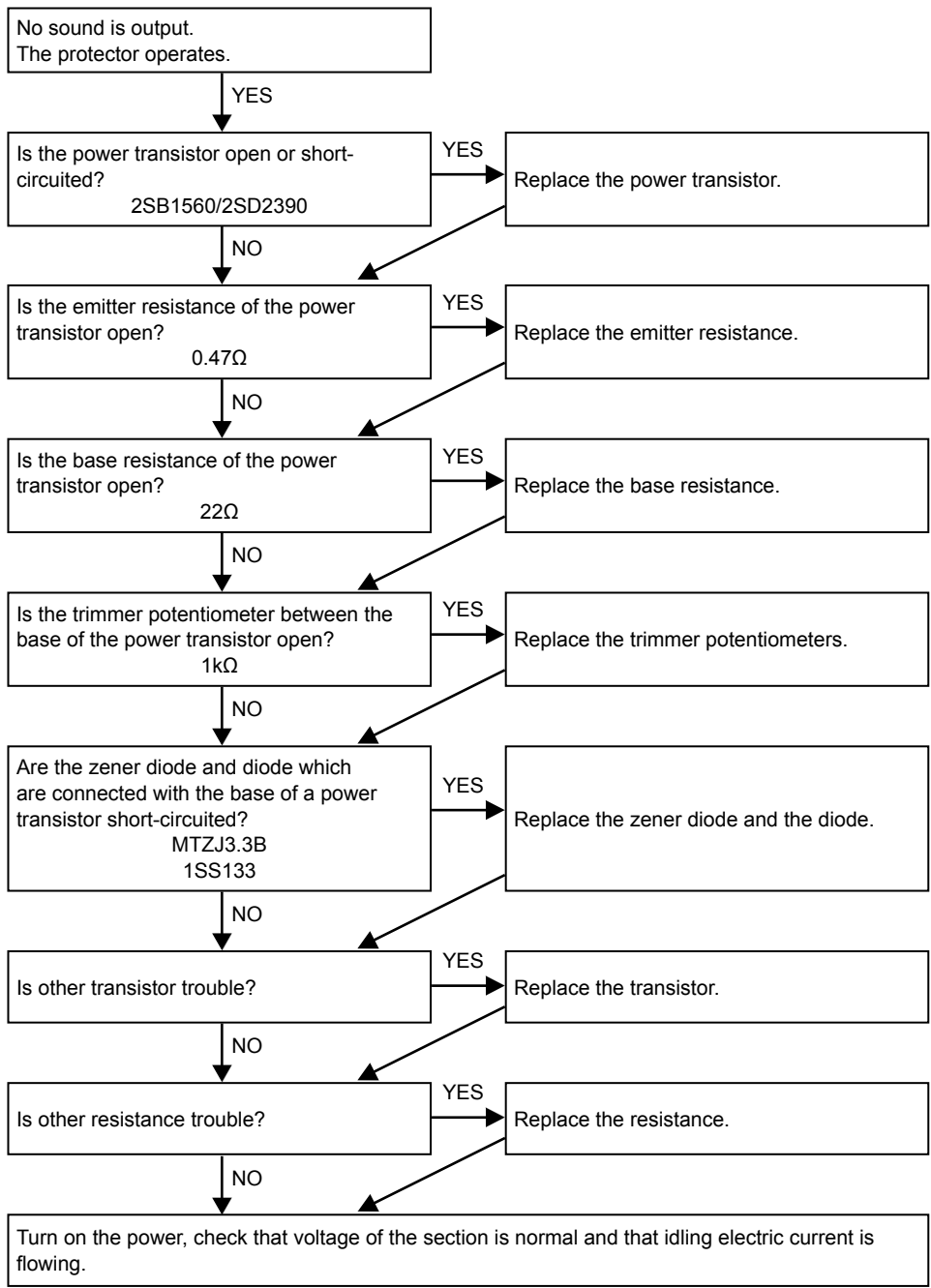


## 4. AUDIO

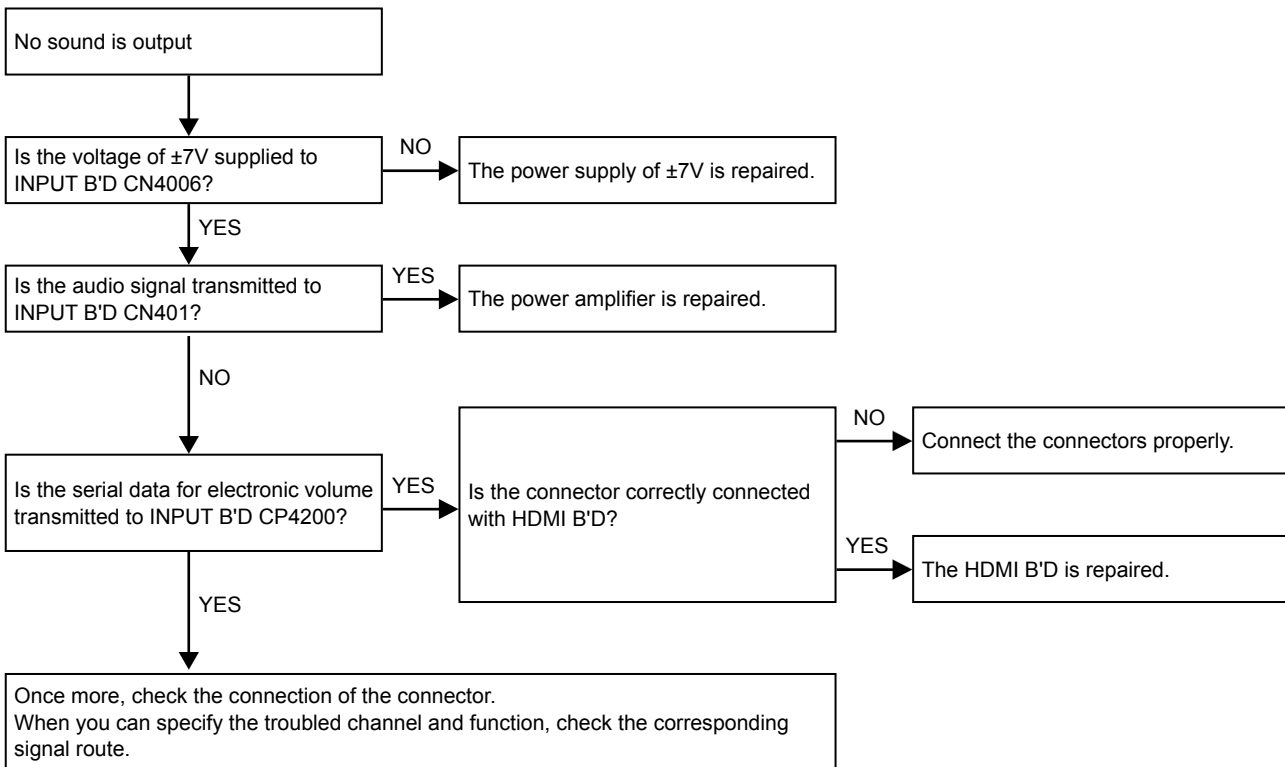
### 4.1. AUDIO CHECK



## 4.2. Power AMP (AMP UNIT)

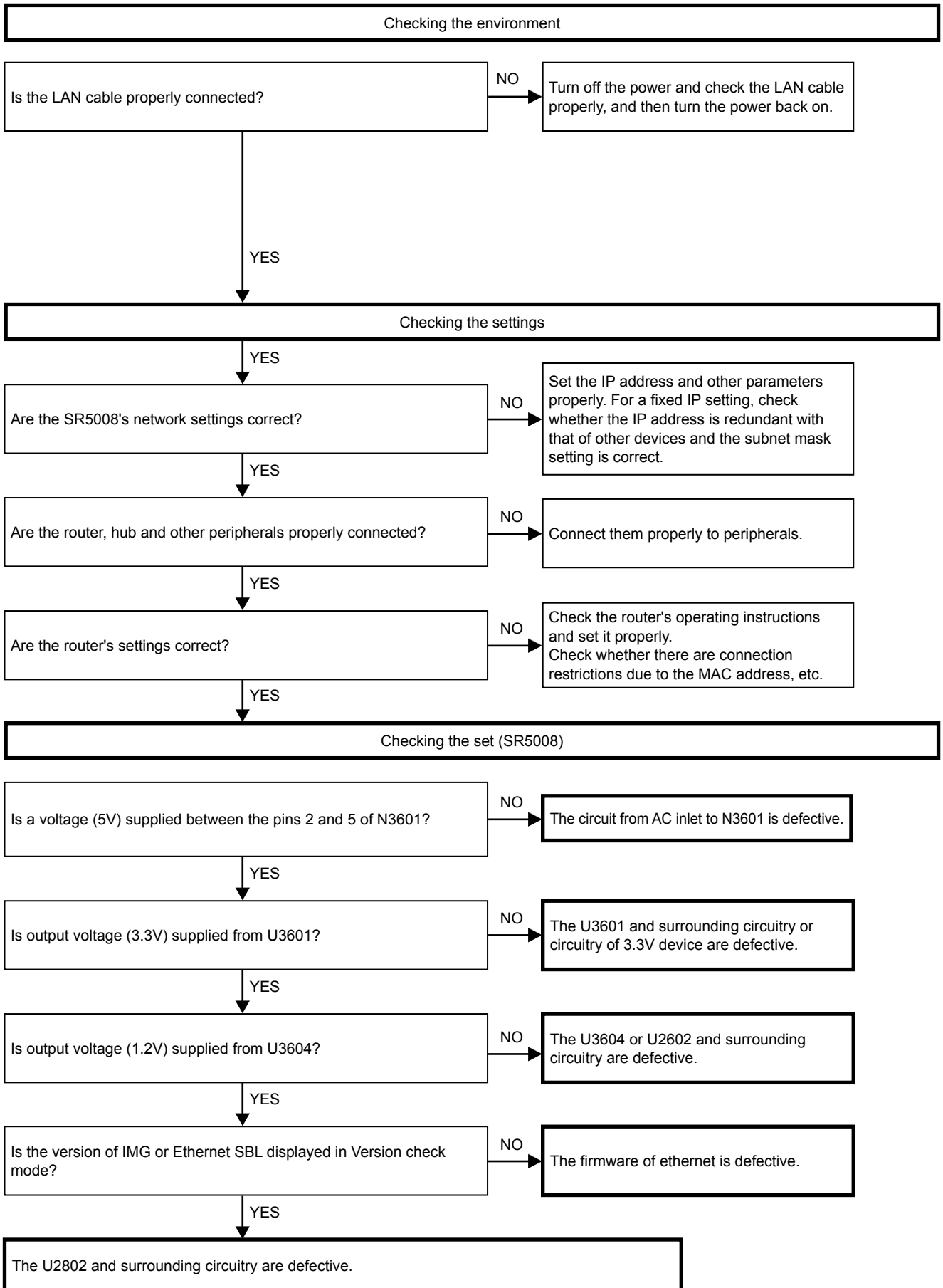


### 4.3. Analog audio

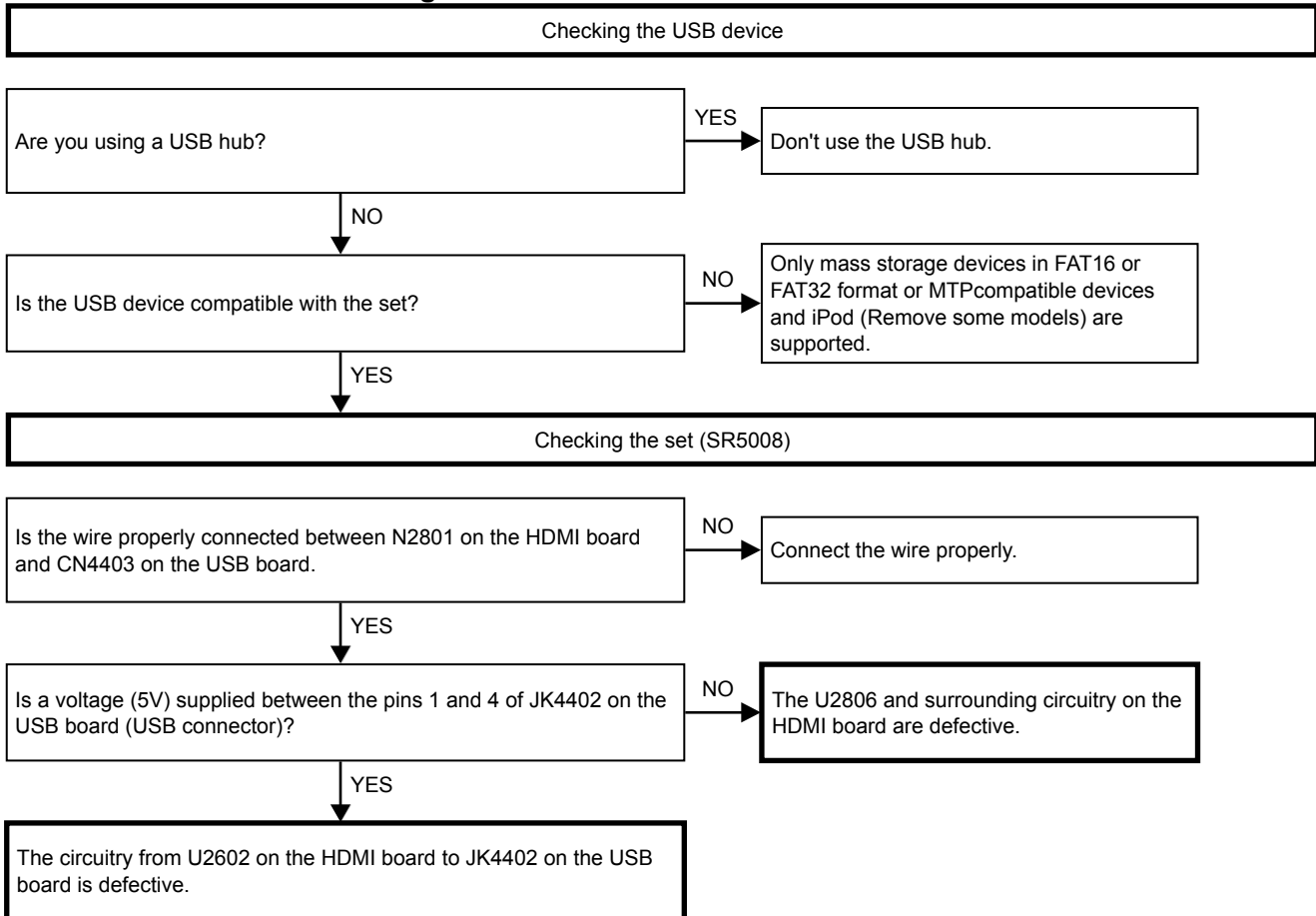


## 5. Network/USB

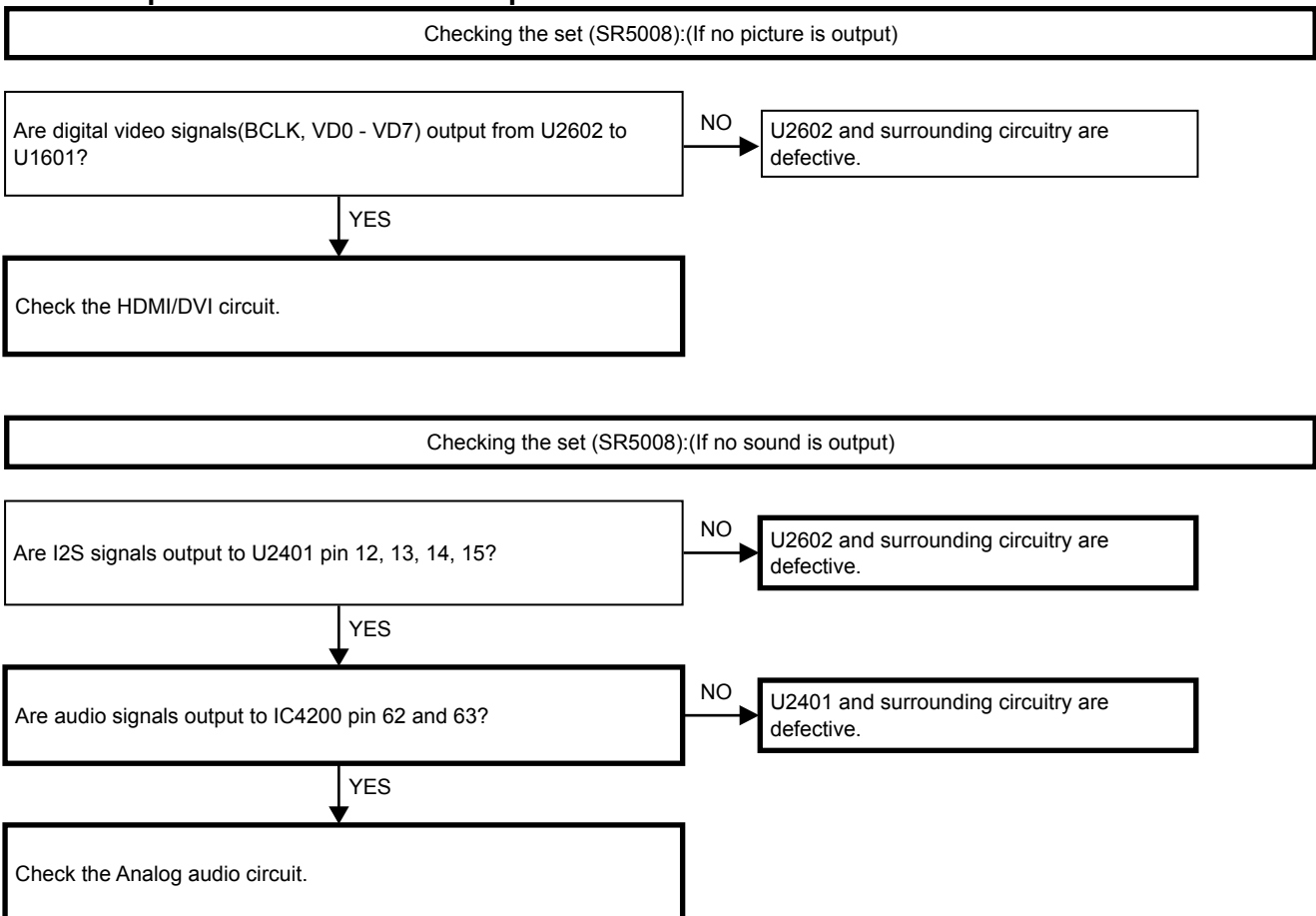
### 5.1. Cannot connect to network



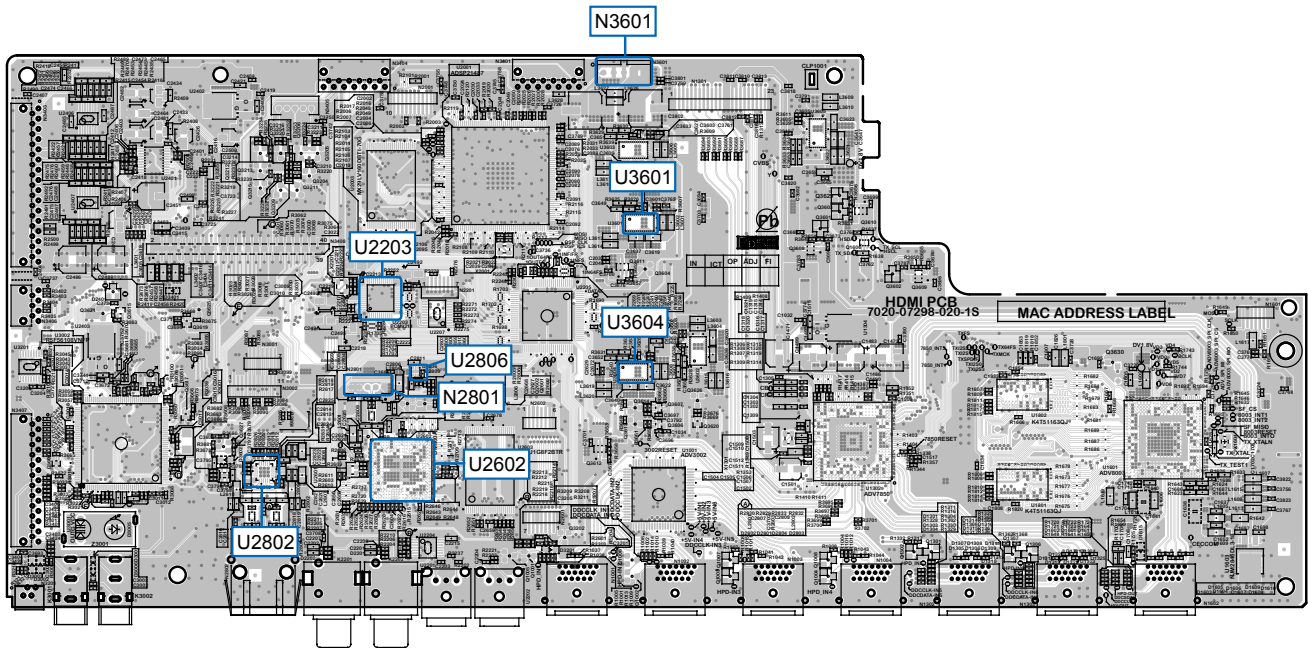
## 5.2. USB device is not recognized



## 5.3. No picture or no sound is output

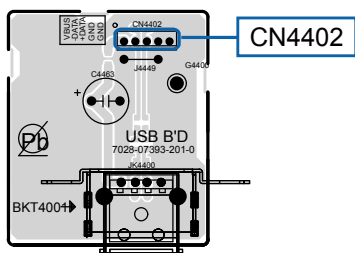


**HDMI test point (SR5008)**



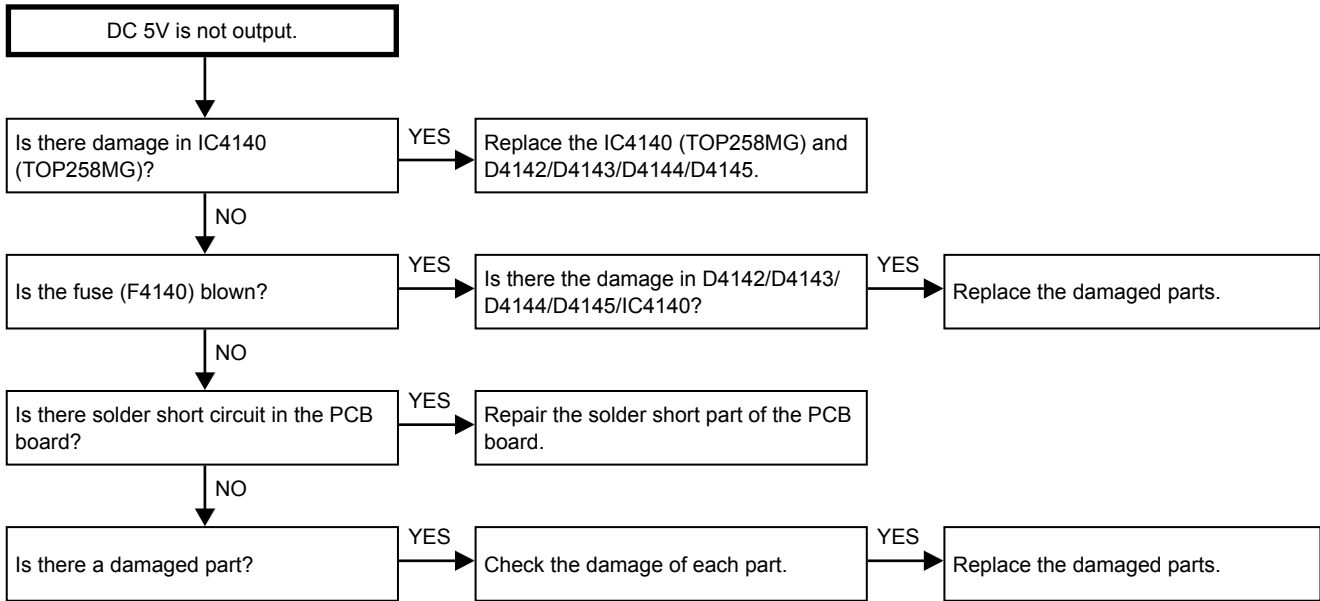
(A SIDE)

**USB test point**

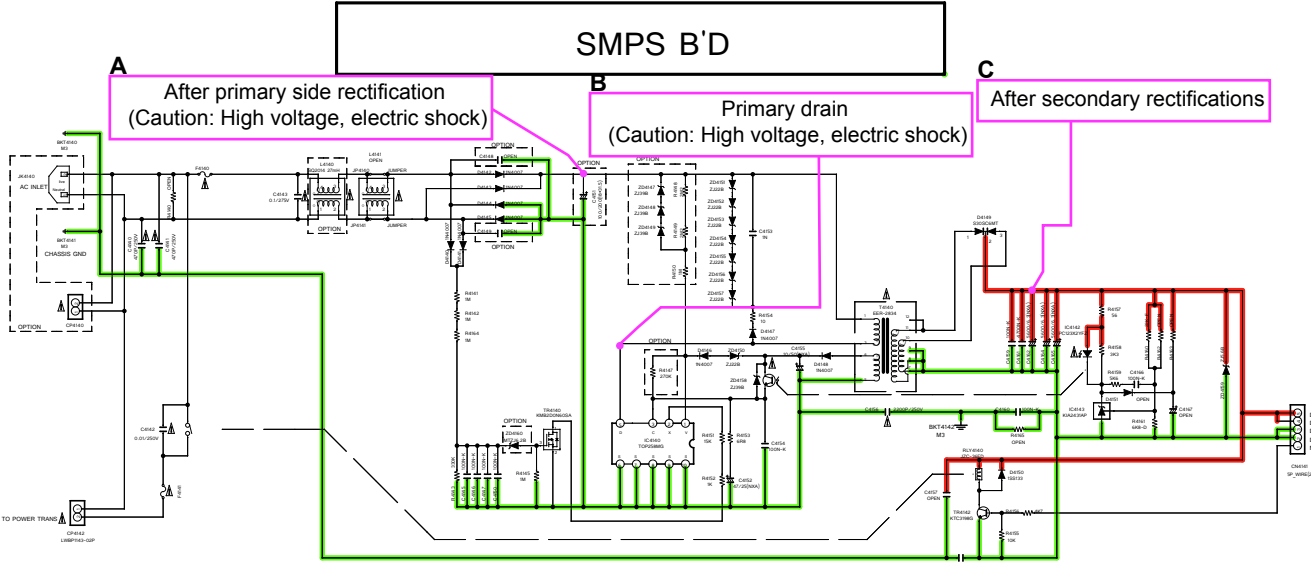


(A SIDE)

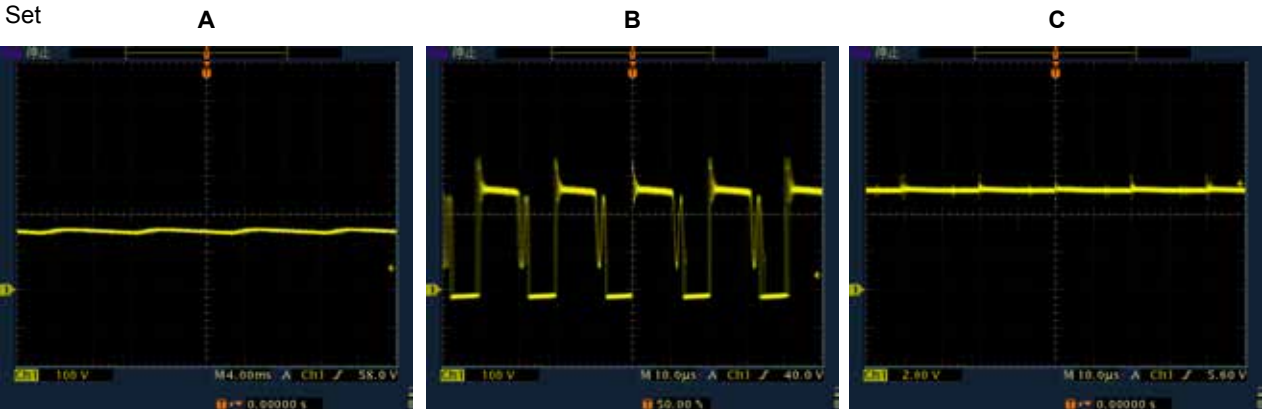
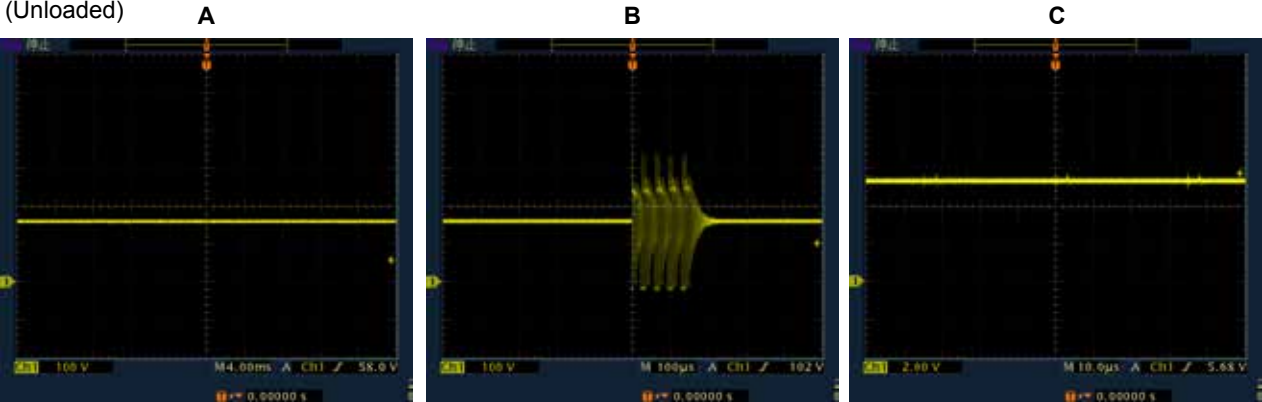
## 6. SMPS



Operation waveform for each part



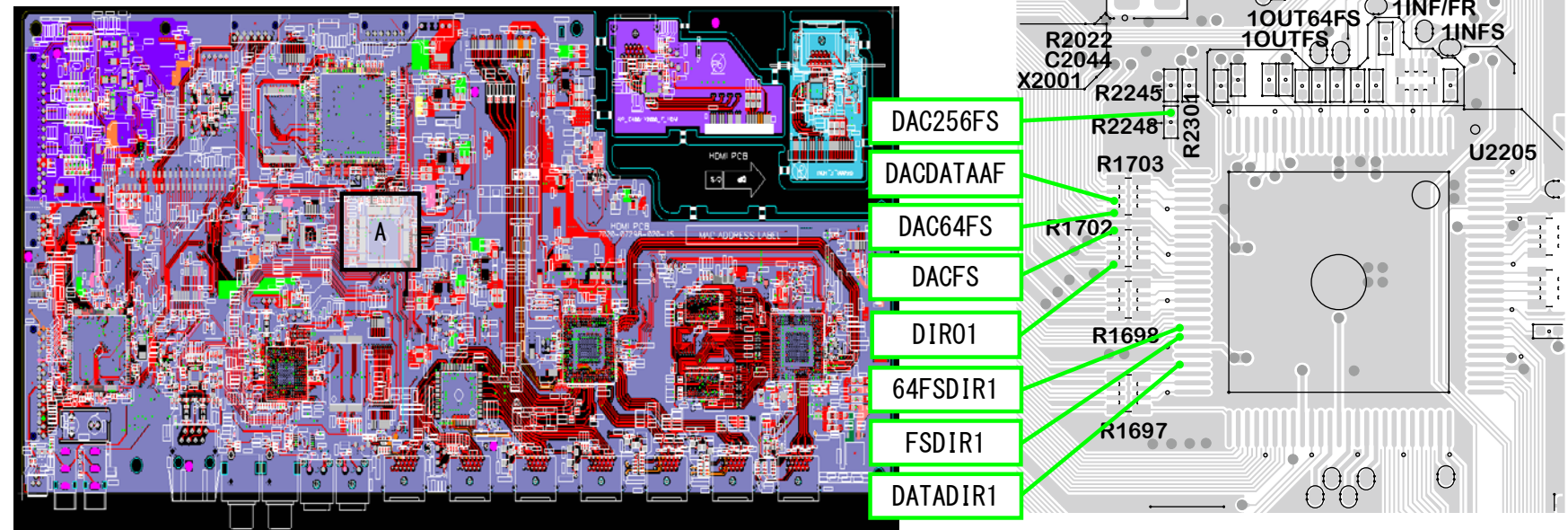
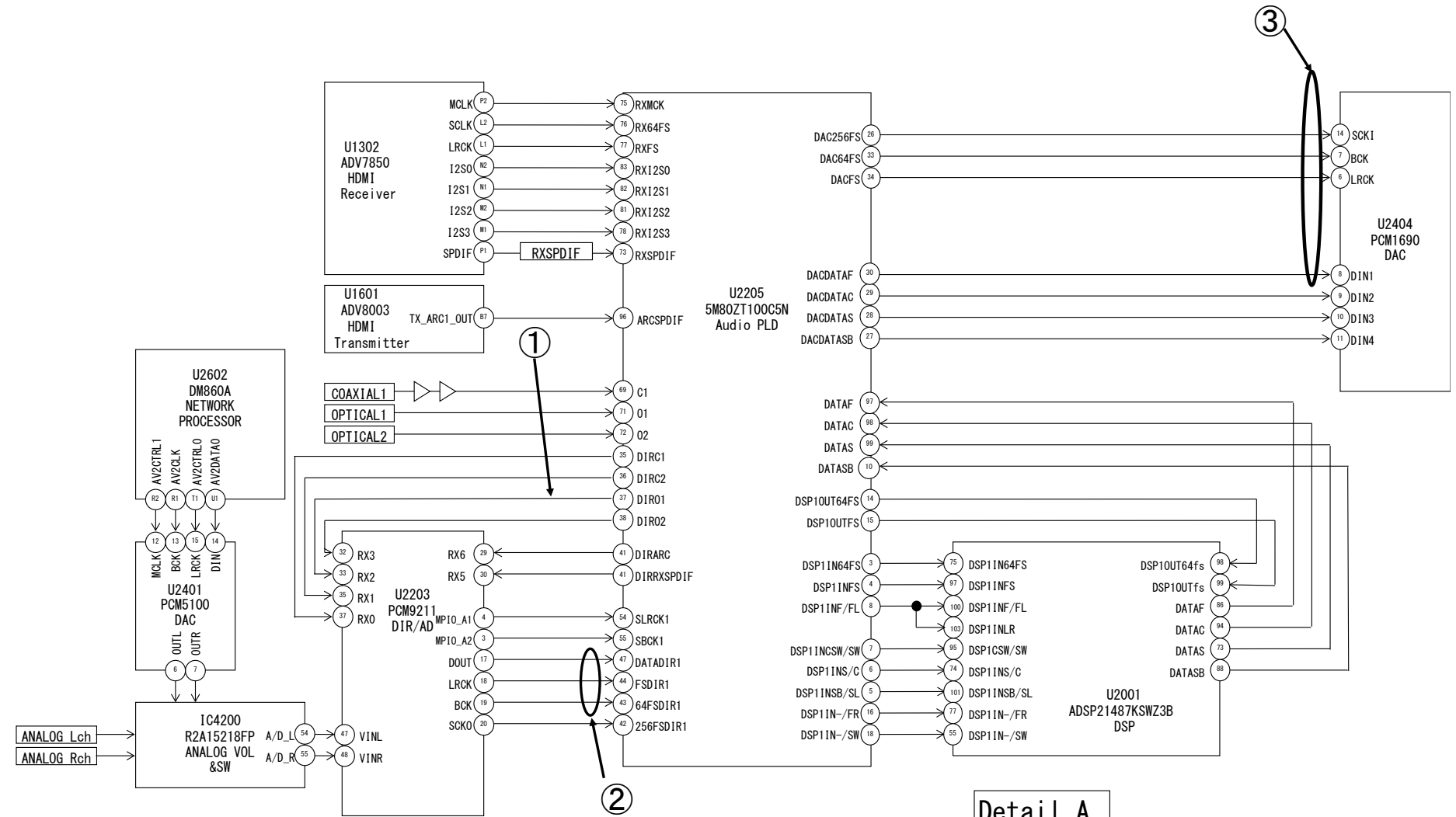
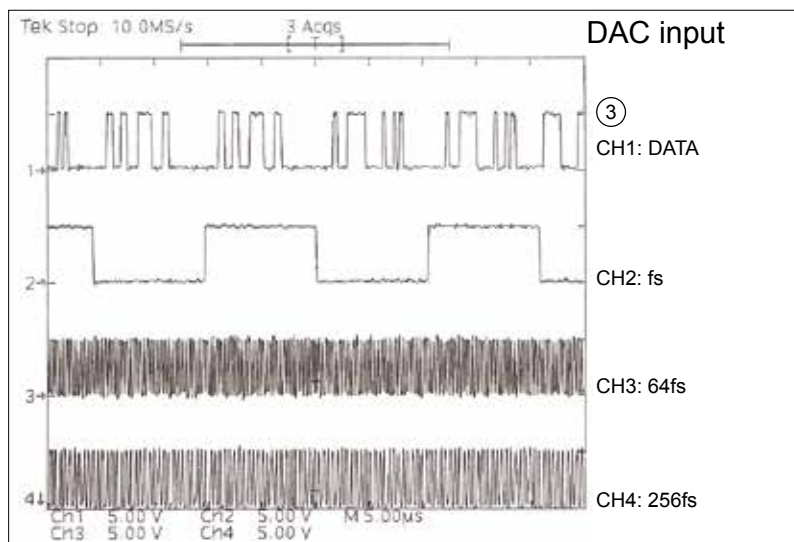
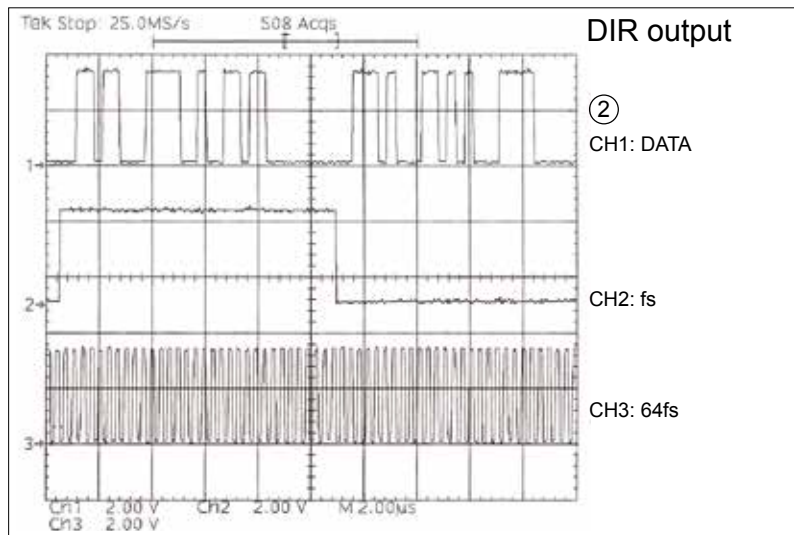
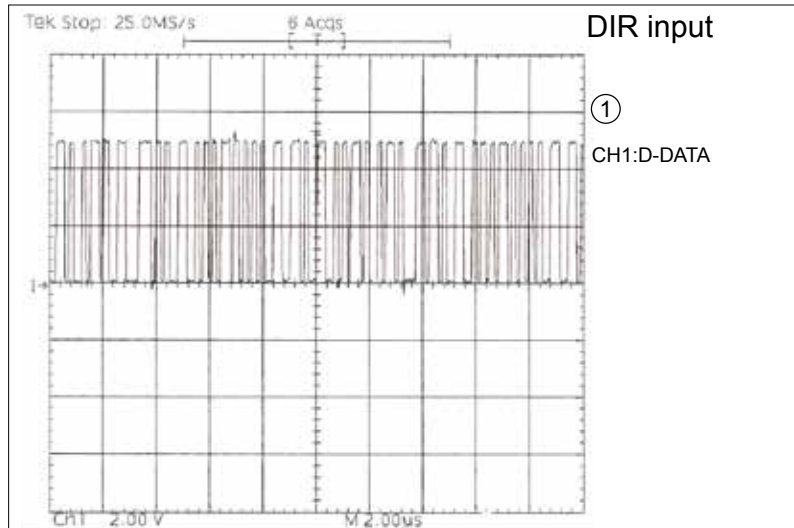
SMPS unit (Unloaded)





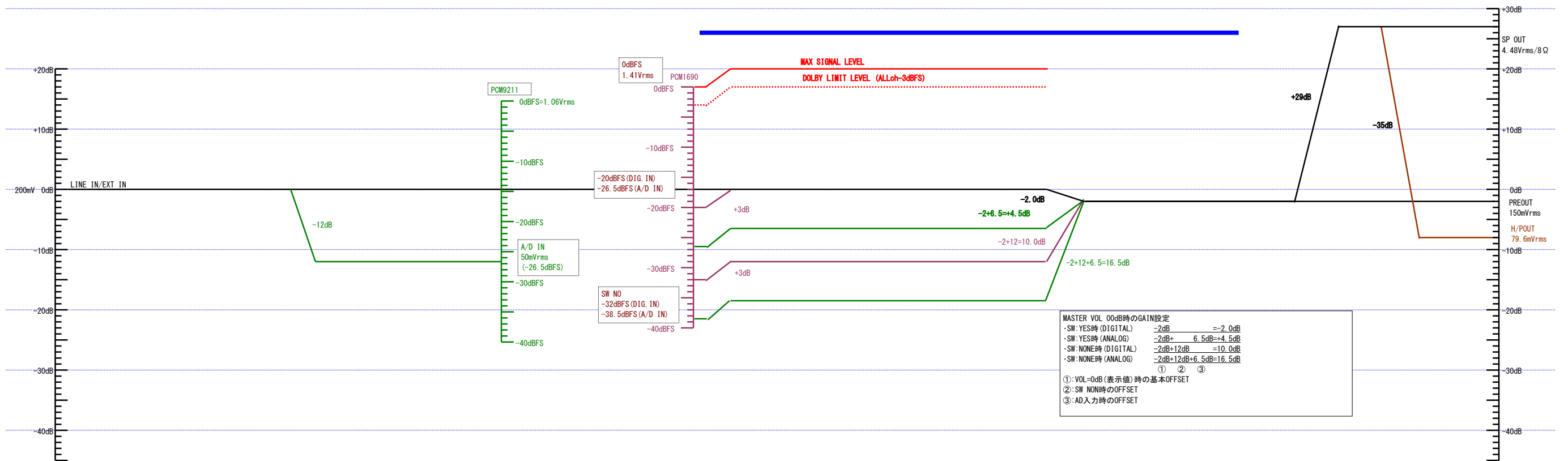
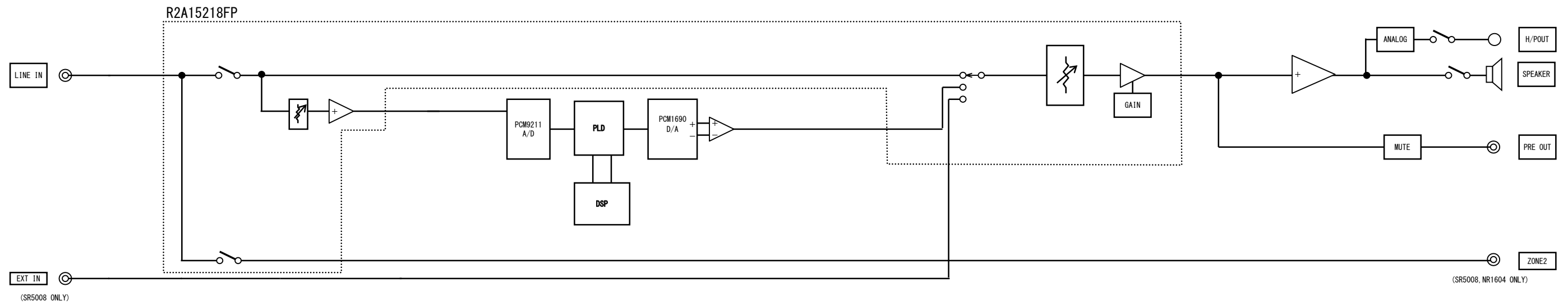
# CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK DIAGRAM

## WAVE FORM

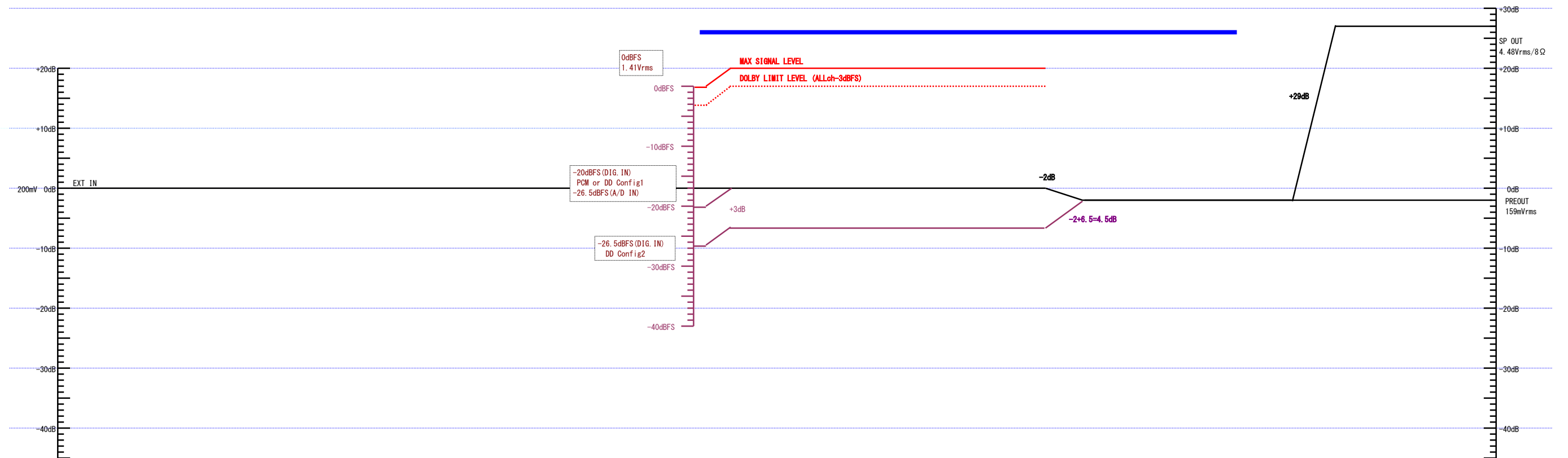
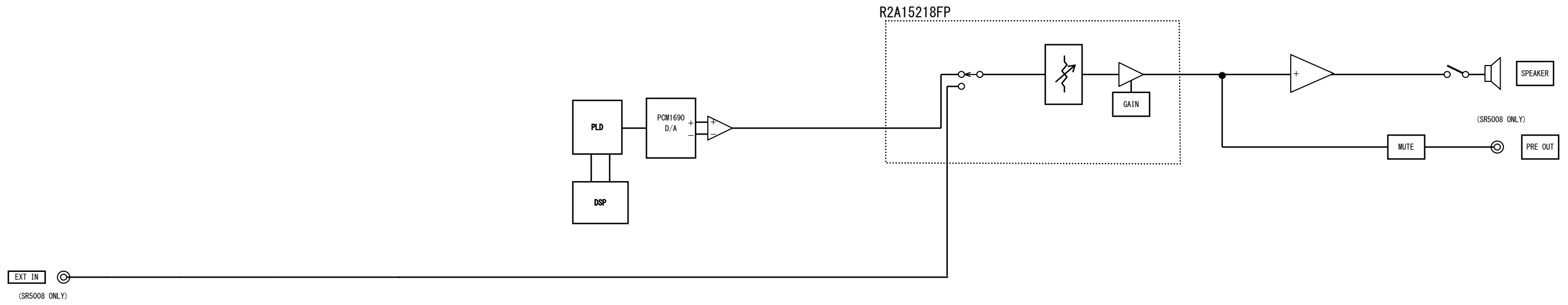


# LEVEL DIAGRAM

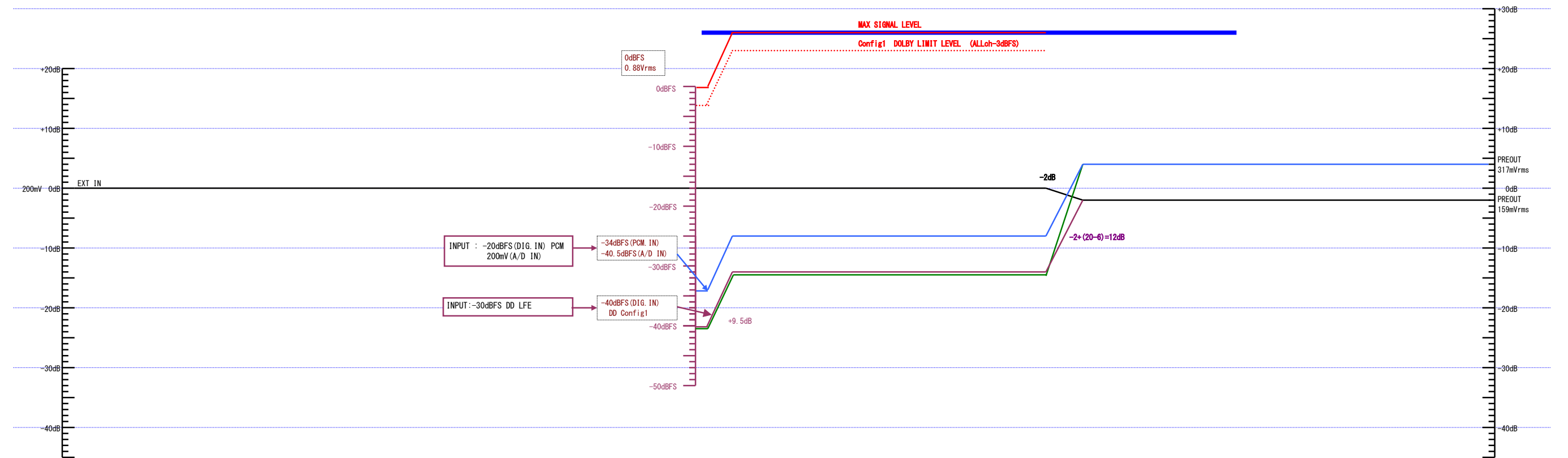
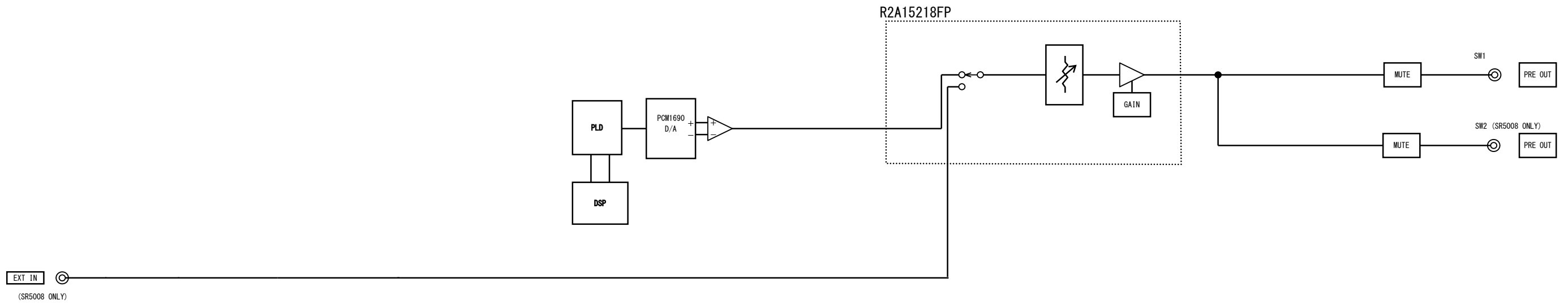
## SR5008 NR1604/1504 LEVEL DIAGRAM FRONT ch



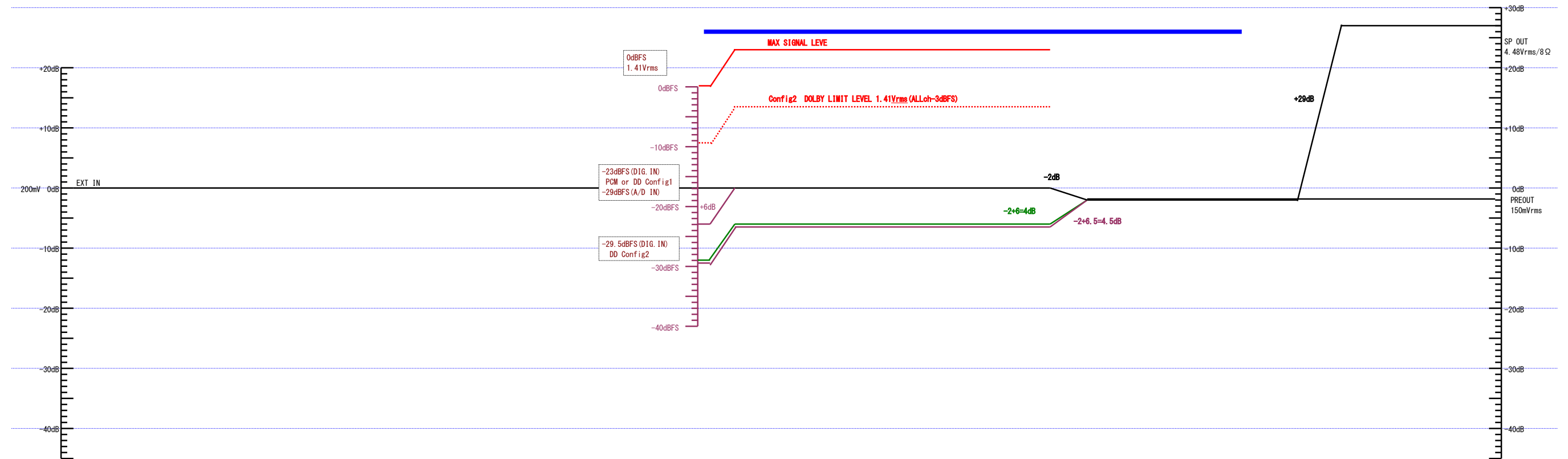
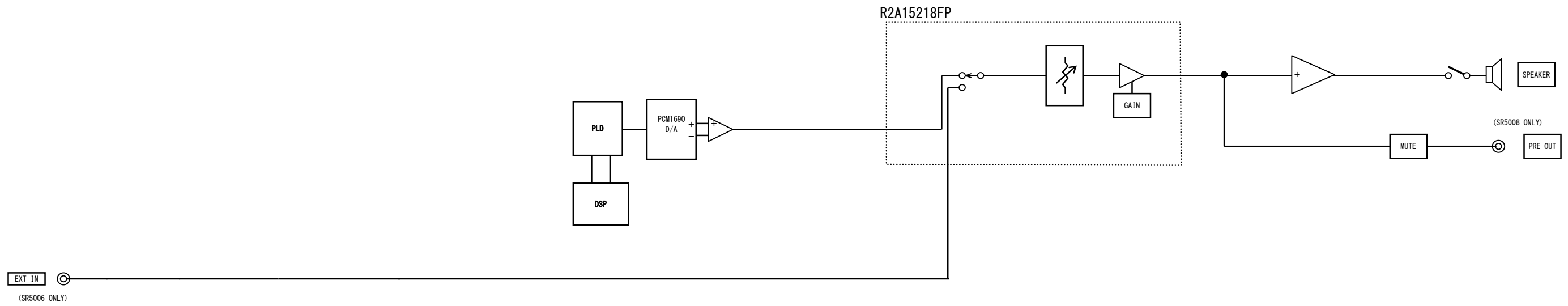
**SR5008  
NR1604/1504  
LEVEL DIAGRAM  
CENTER ch**



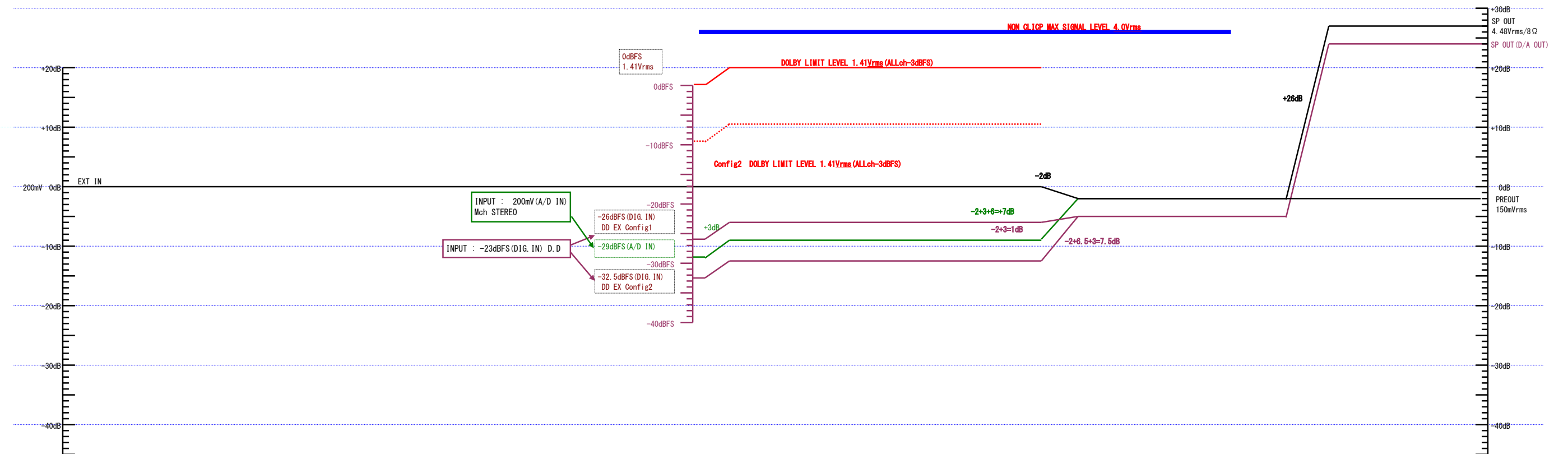
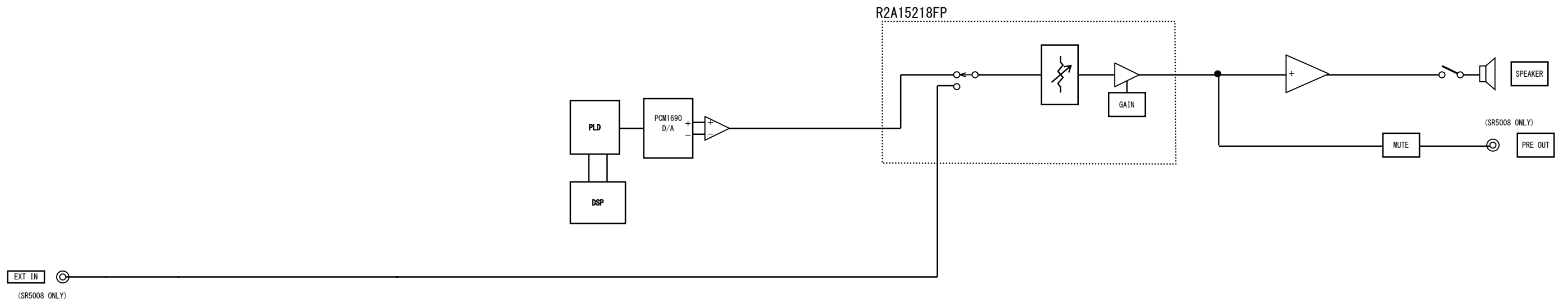
**SR5008  
NR1604/1504  
LEVEL DIAGRAM  
SUBWOOFER ch**



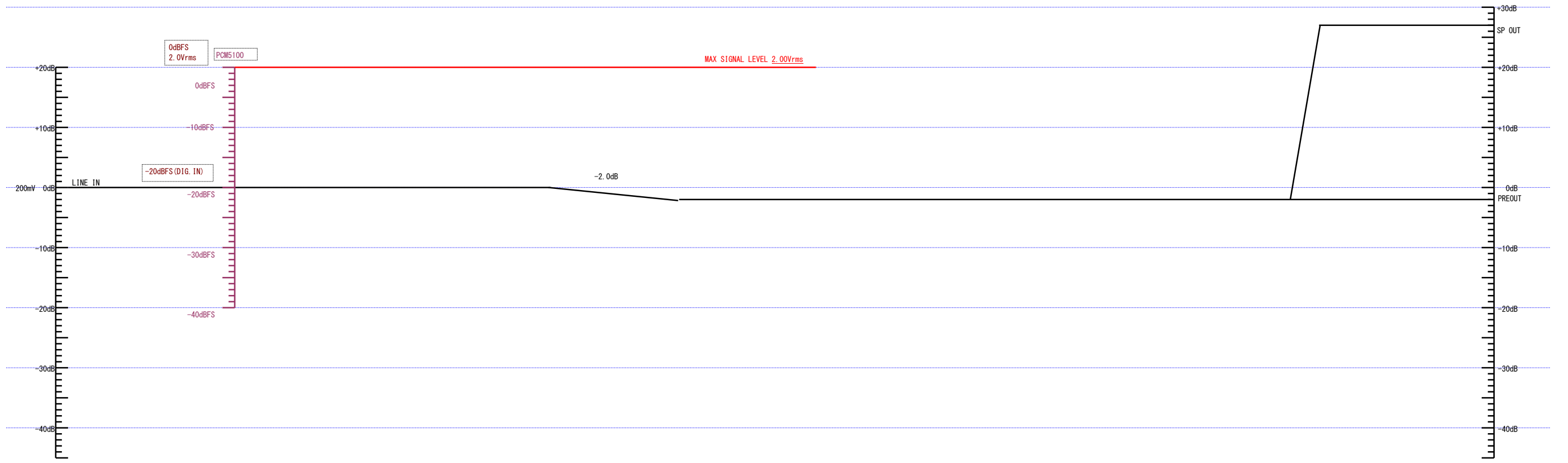
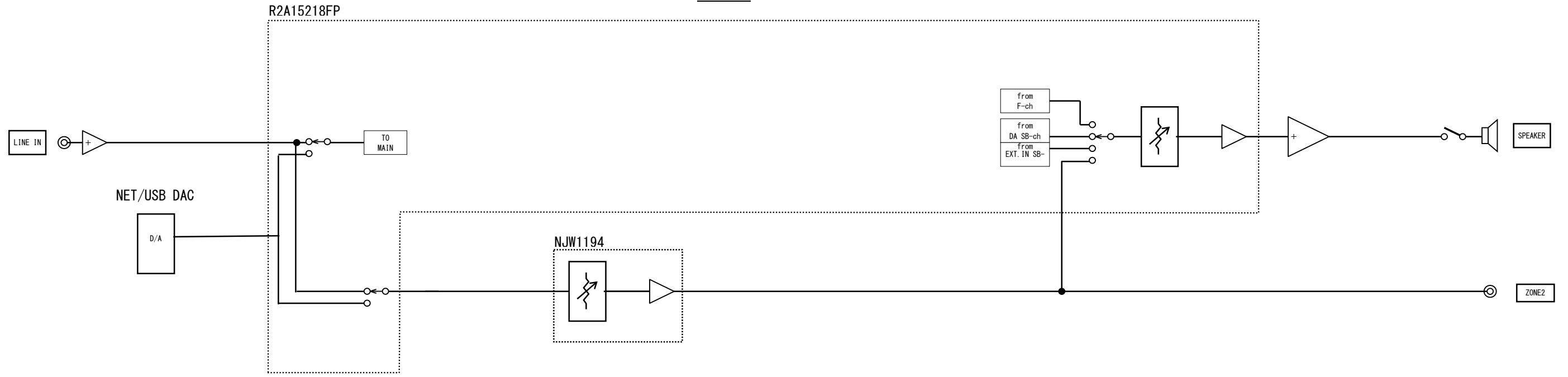
**SR5008  
NR1604/1504  
LEVEL DIAGRAM  
SURROUND ch**



**SR5008  
NR1604  
LEVEL DIAGRAM  
SURR.BACK ch**



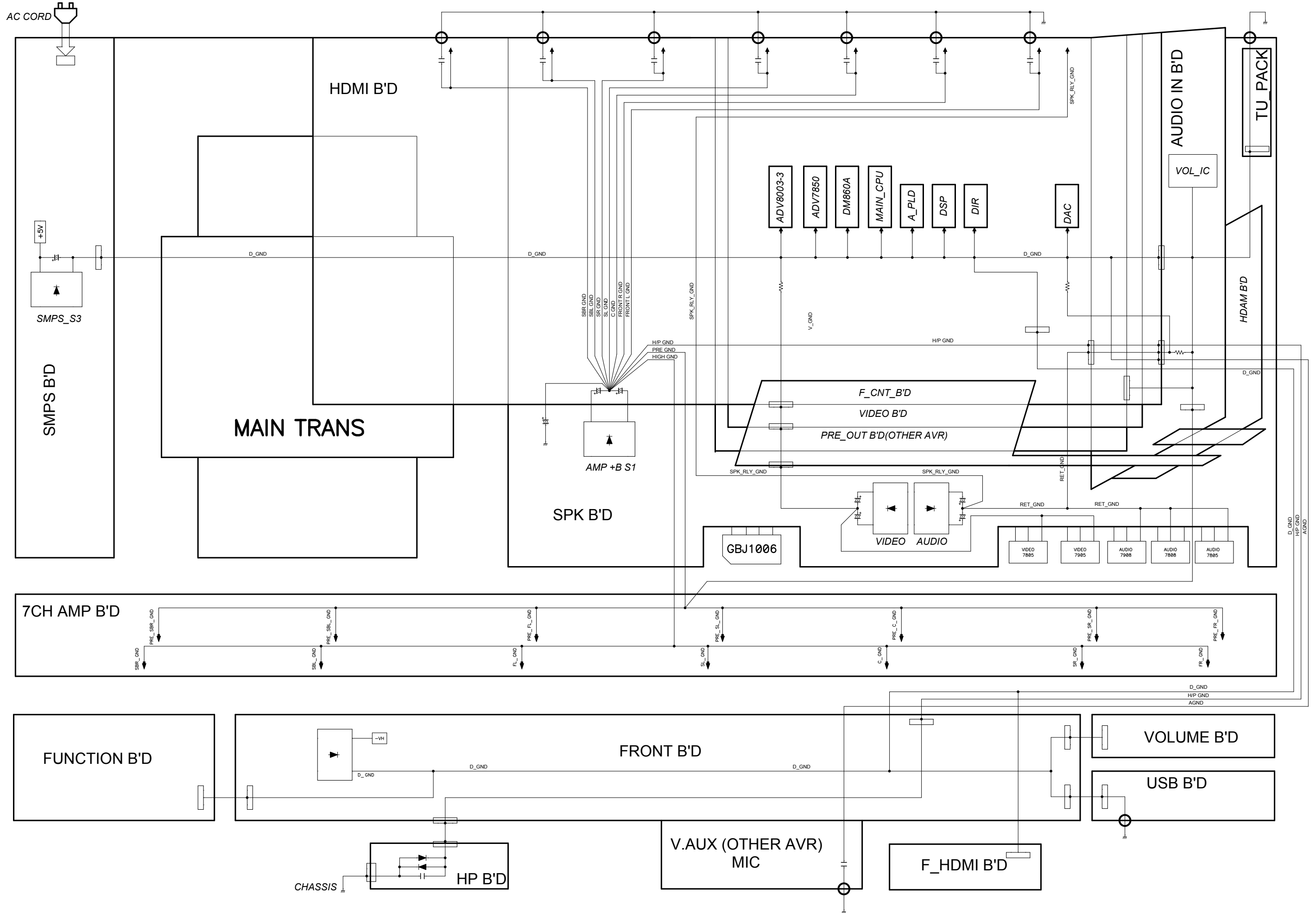
**SR5008  
LEVEL DIAGRAM  
ZONE2**



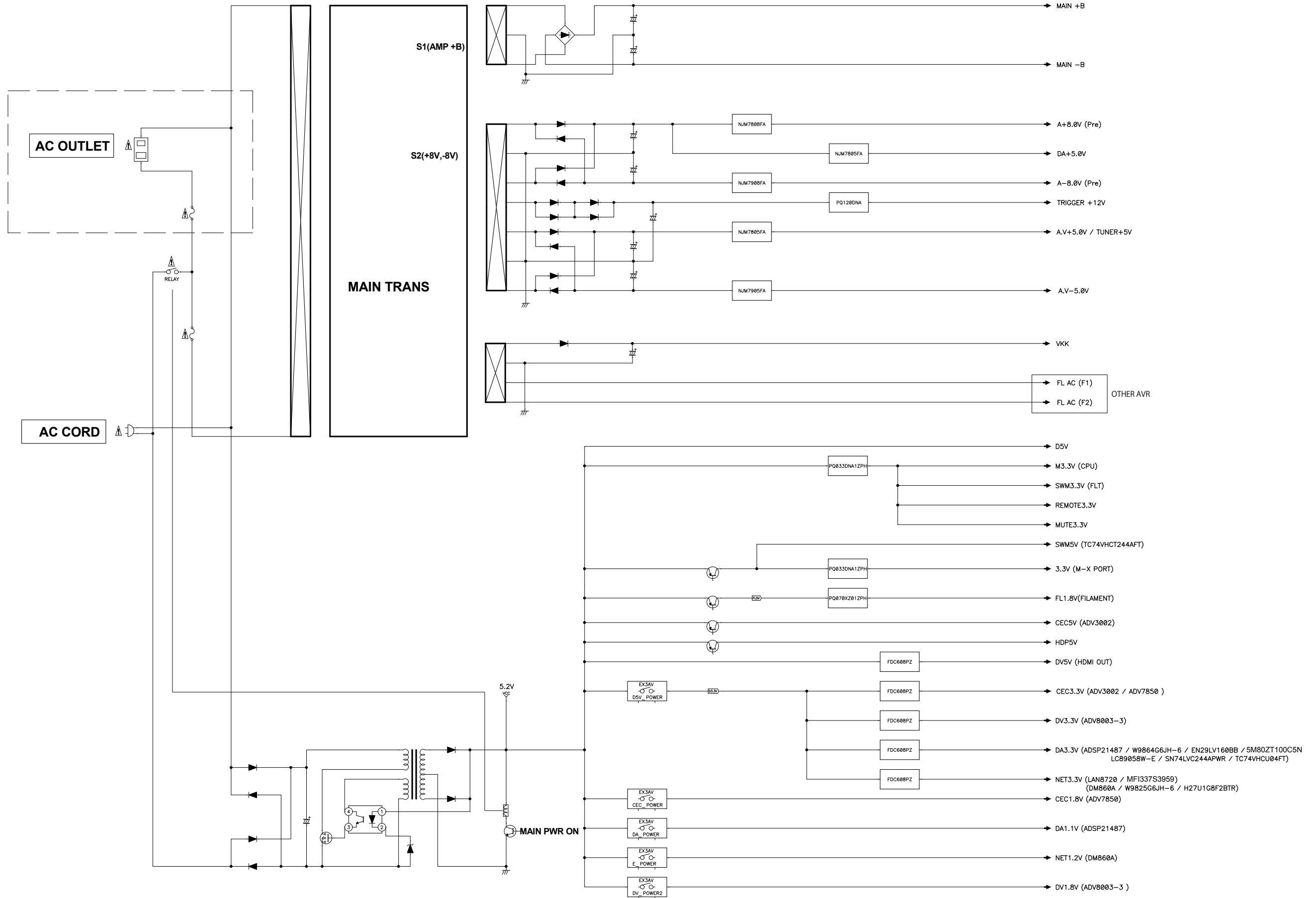
**BLOCK DIAGRAM**

**VIDEO B'D**

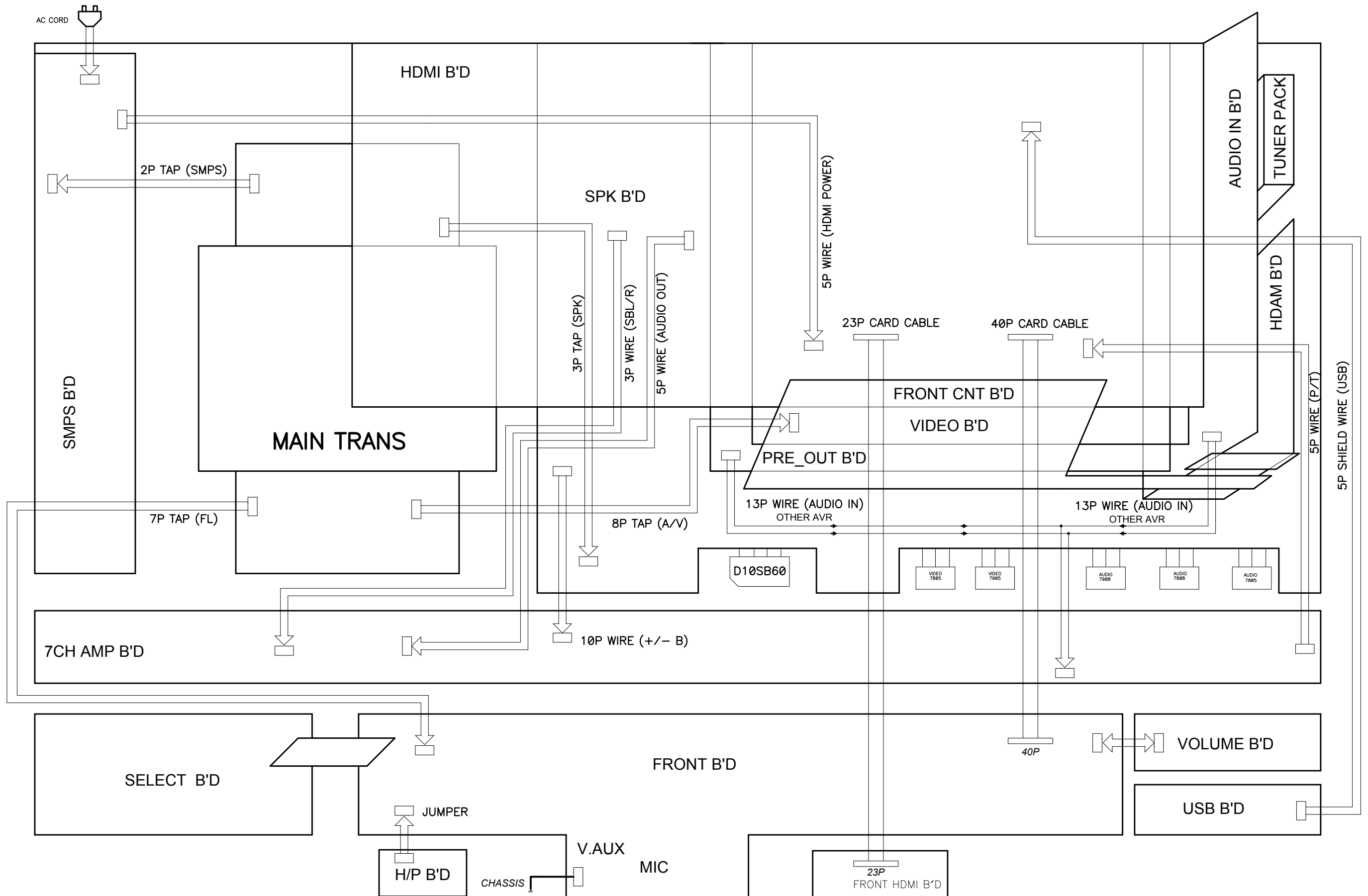
**GND DIAGRAM**



# POWER DIAGRAM



# WIRING DIAGRAM

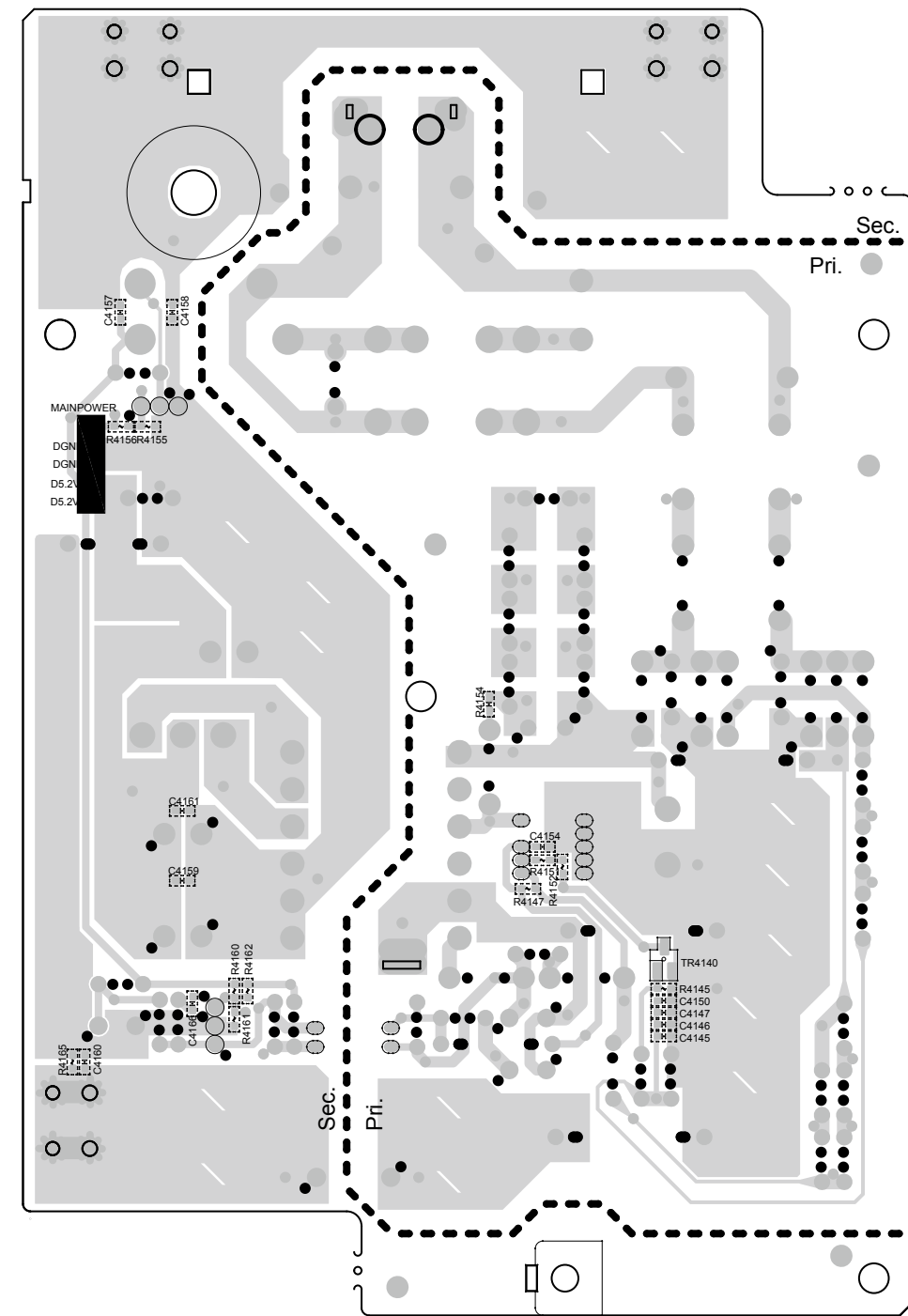
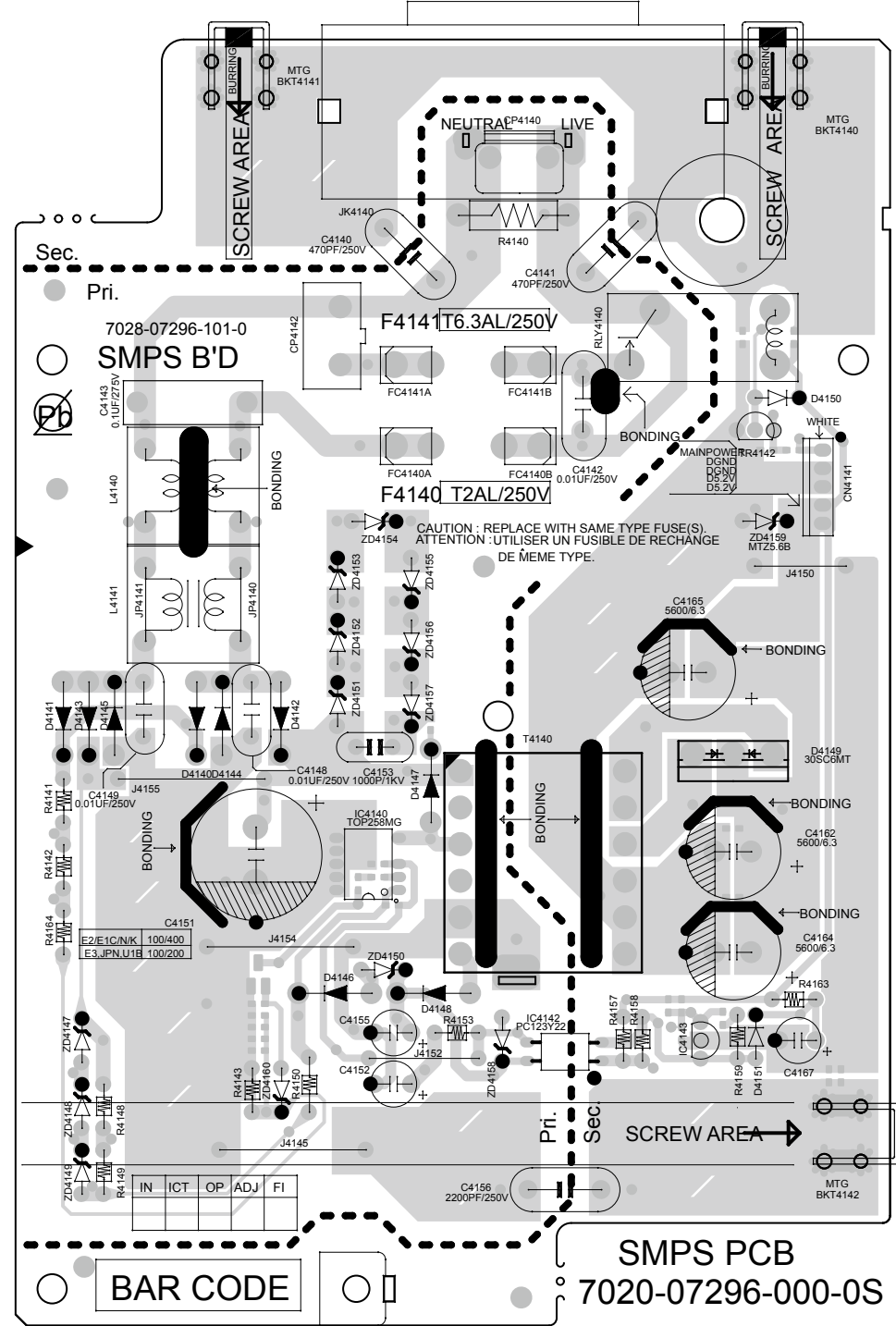


**PRINTED WIRING BOARDS**

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

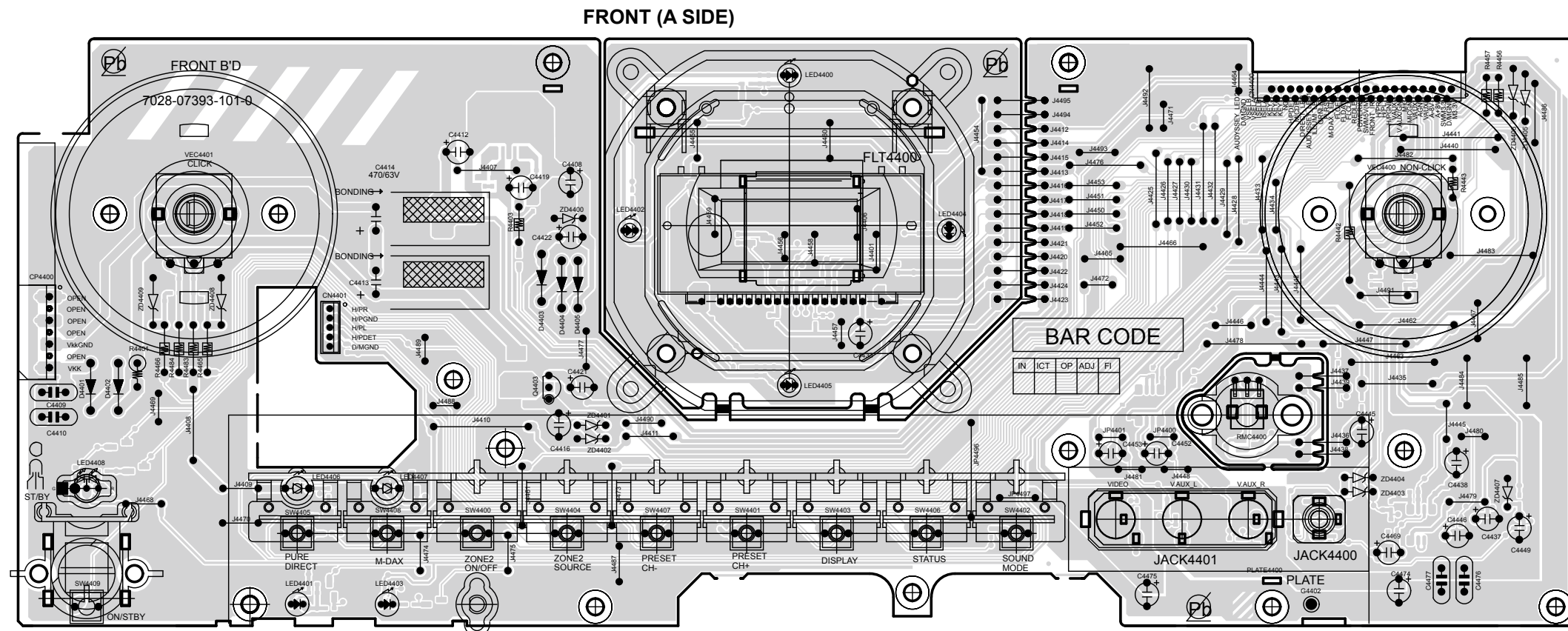
**SMPS (A SIDE)**

**SMPS (B SIDE)**

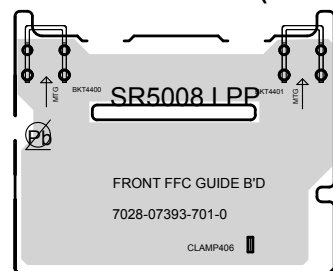


BAR CODE

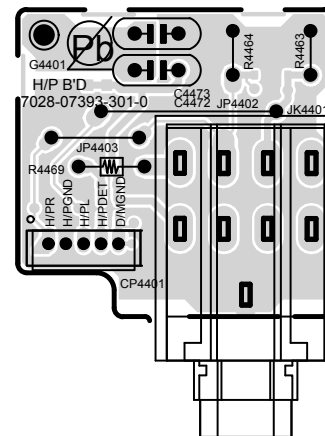
SMPS PCB  
7020-07296-000-0S



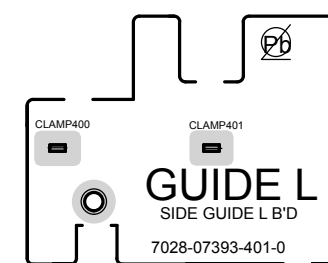
**FRONT FFC GUIDE (A SIDE)**



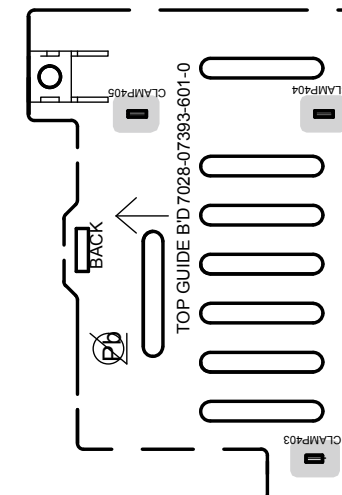
**H/P (A SIDE)**



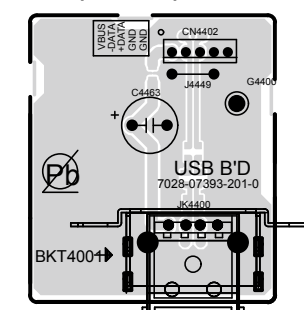
**GUIDE L (A SIDE)**

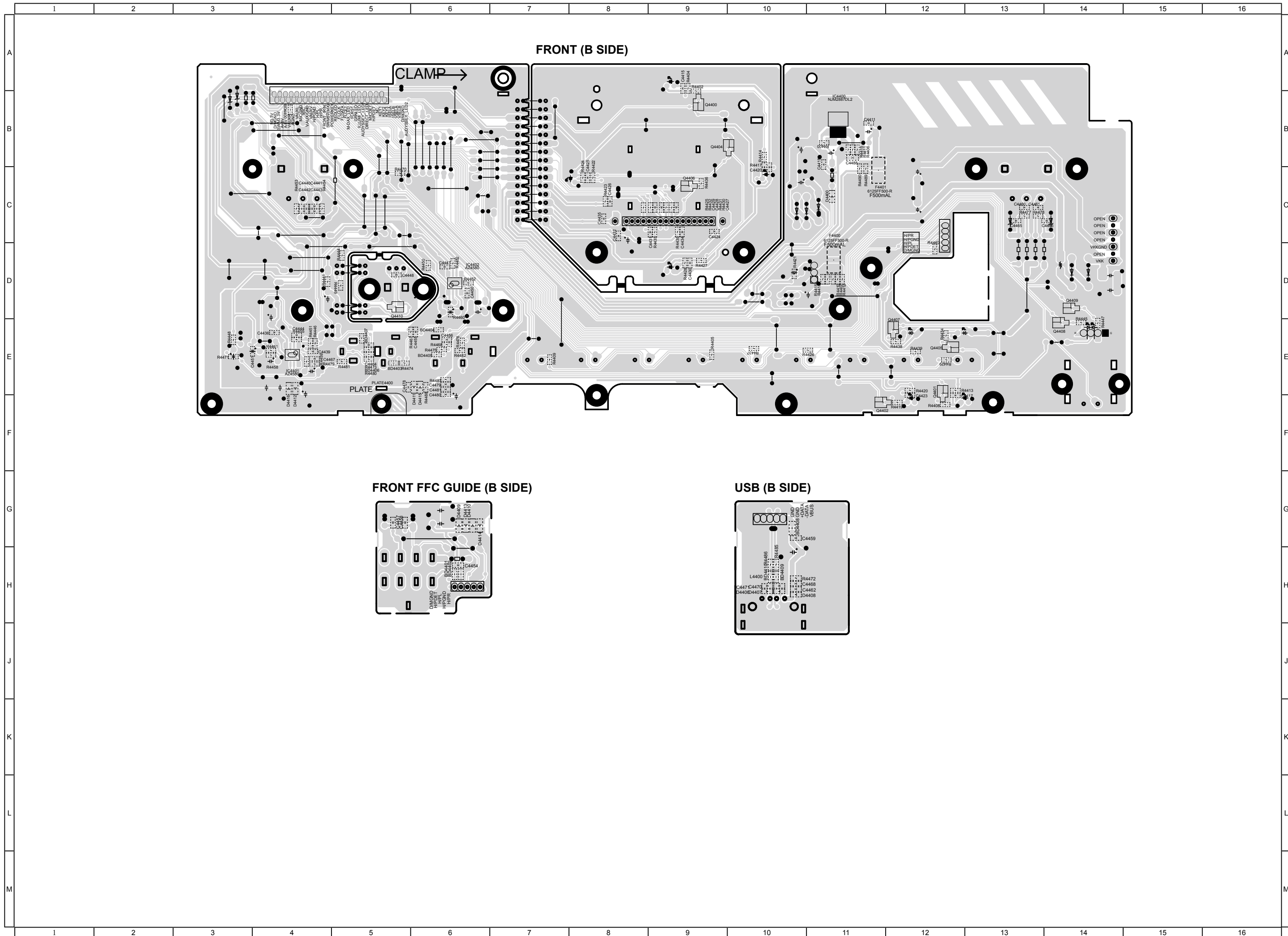


**TOP GUIDE (A SIDE)**



**USB (A SIDE)**





FRONT (B SIDE)

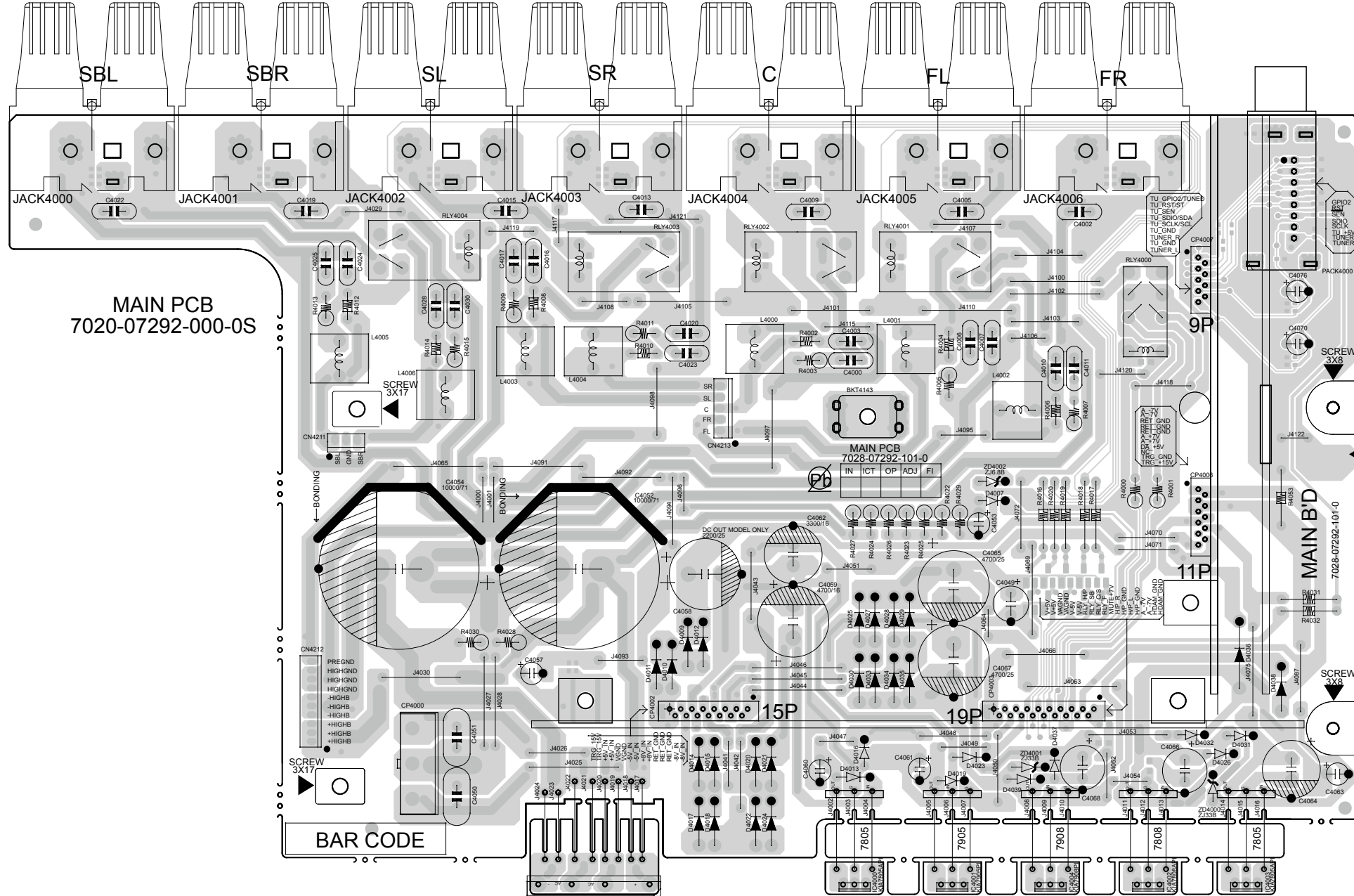
CLAMP →

PLATE

FRONT FFC GUIDE (B SIDE)

USB (B SIDE)

MAIN (A SIDE)



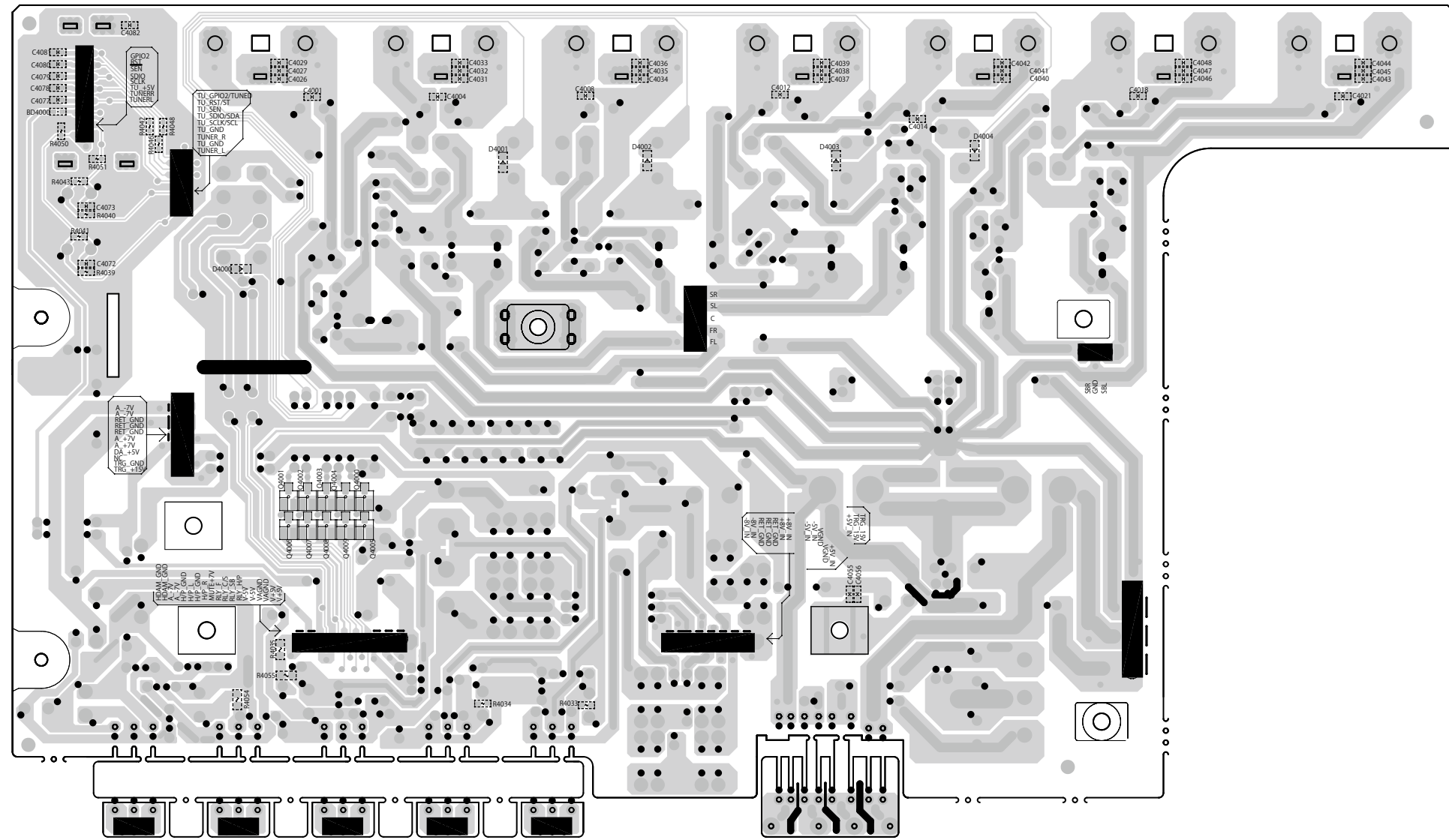
MAIN PCB  
7020-07292-000-0S

MAIN PCB  
7028-07292-101-0

MAIN B'D  
7028-07292-101-0

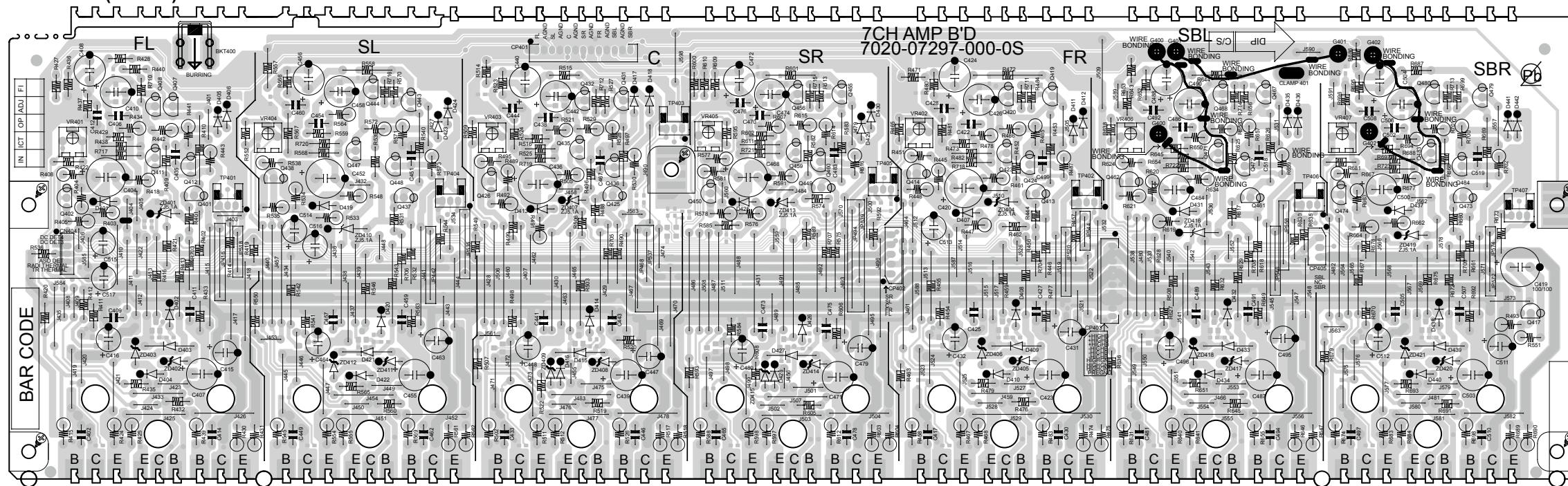
BAR CODE

MAIN (B SIDE)

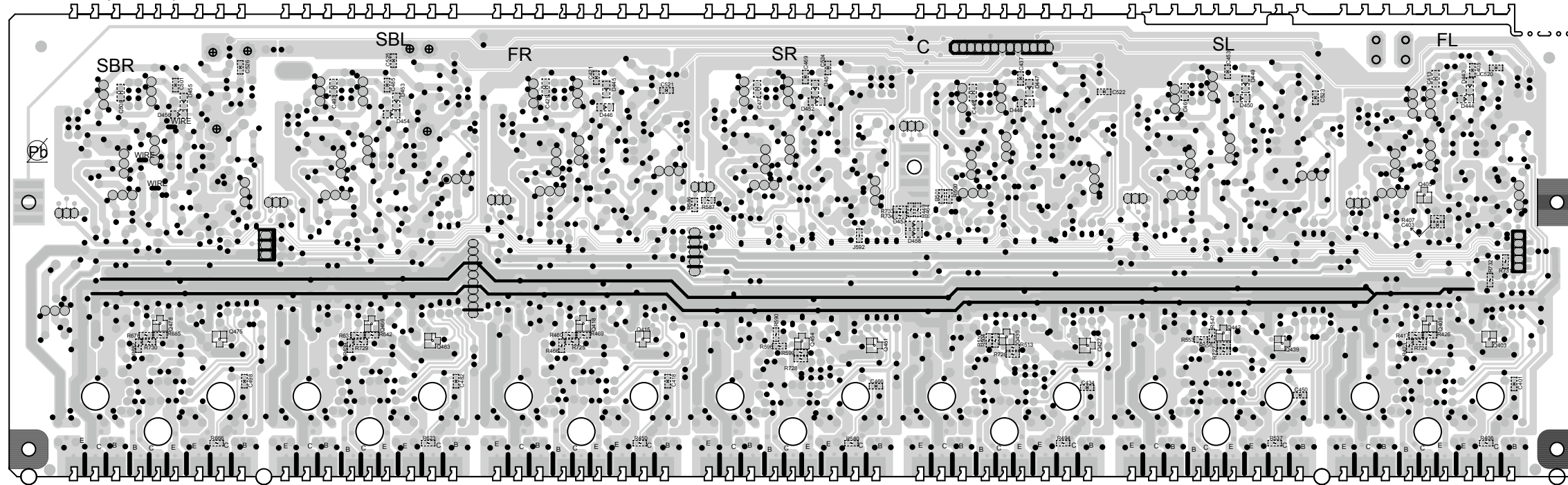




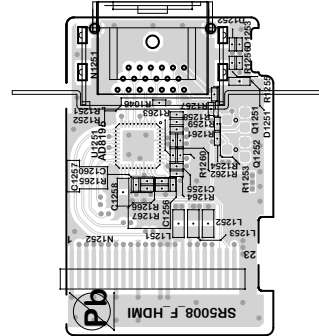
7CH AMP (A SIDE)



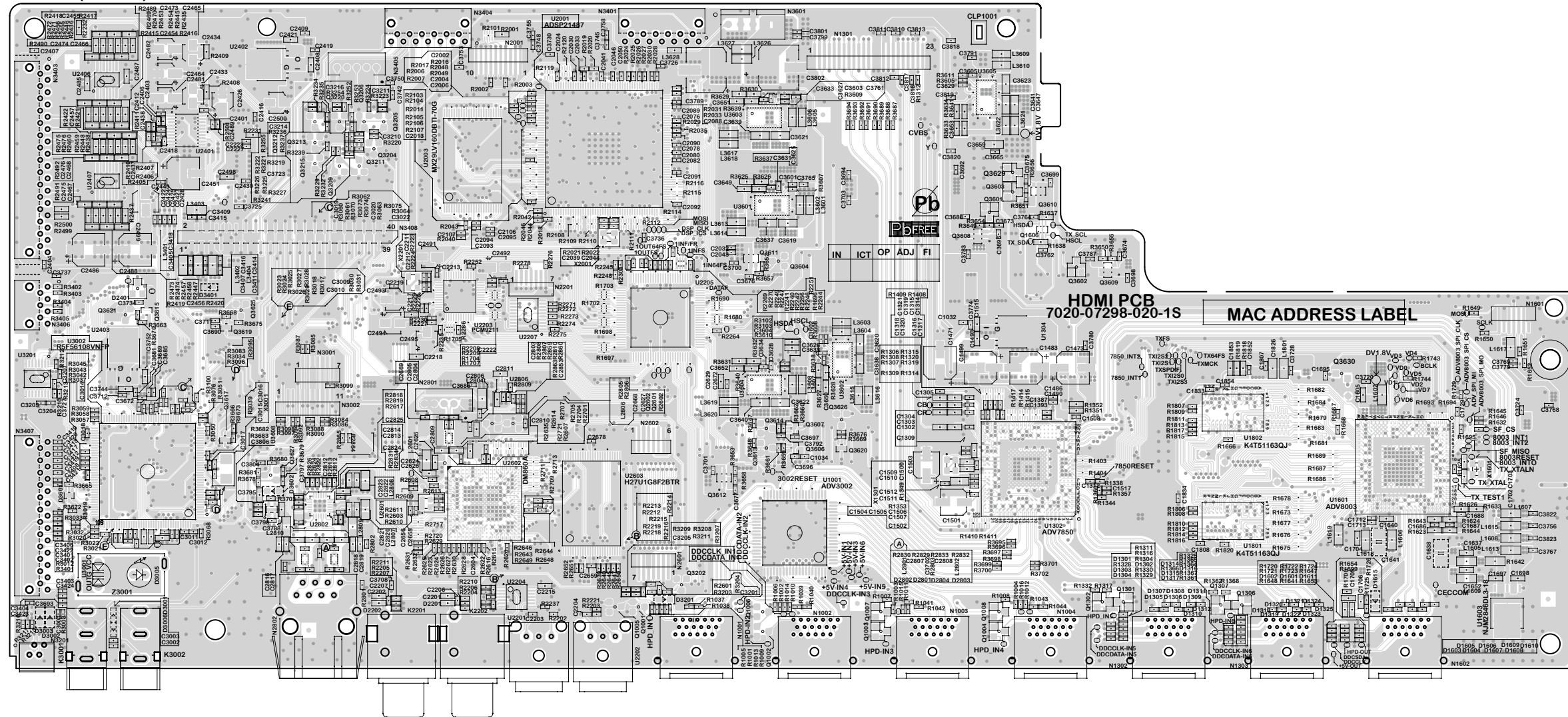
7CH AMP (B SIDE)



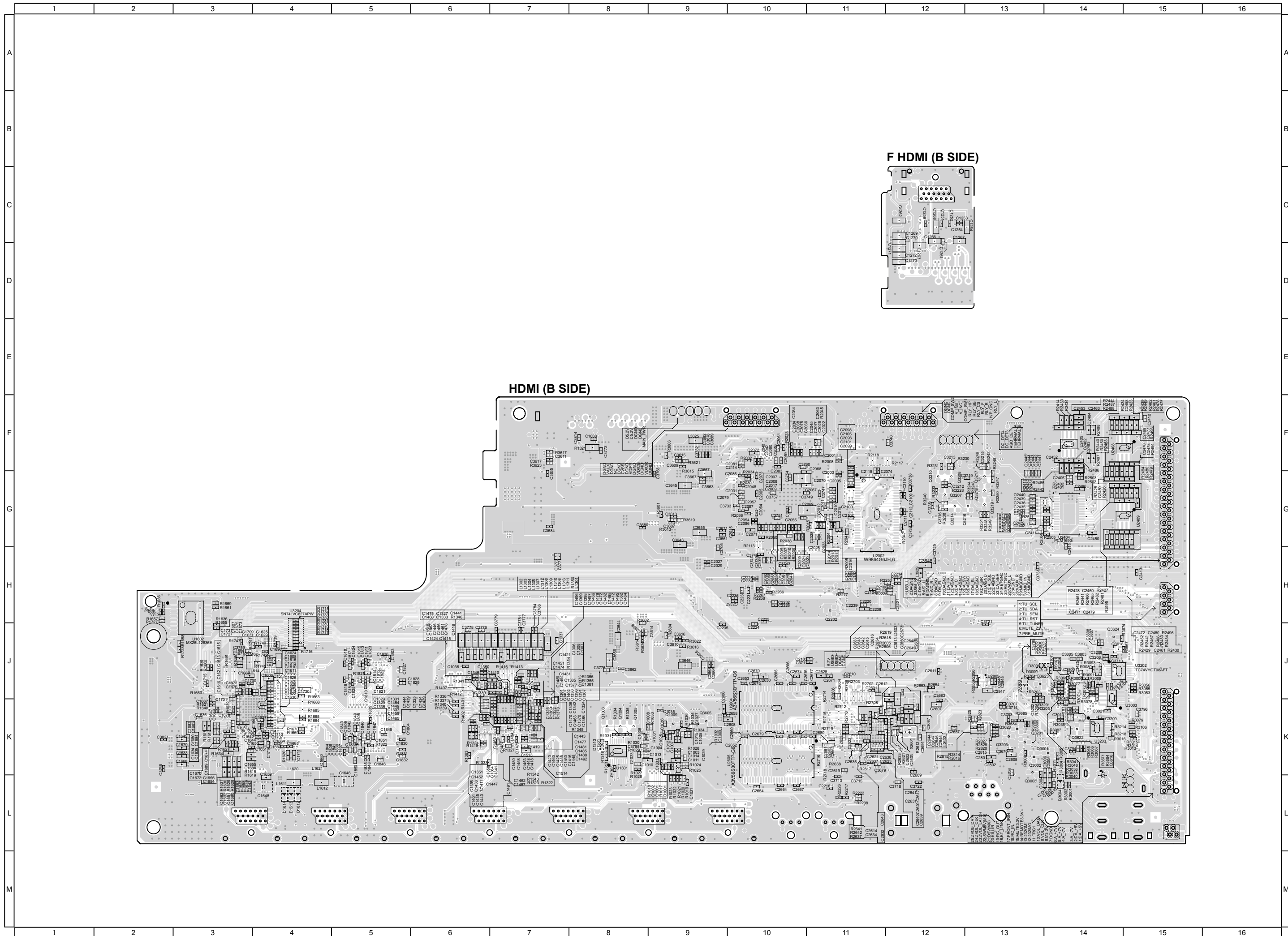
F HDMI (A SIDE)



HDMI (A SIDE)

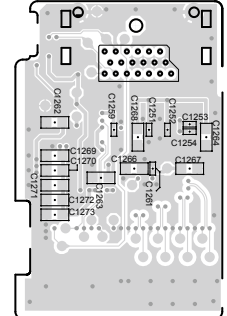


HDMI PCB  
7020-07298-020-1S  
MAC ADDRESS LABEL



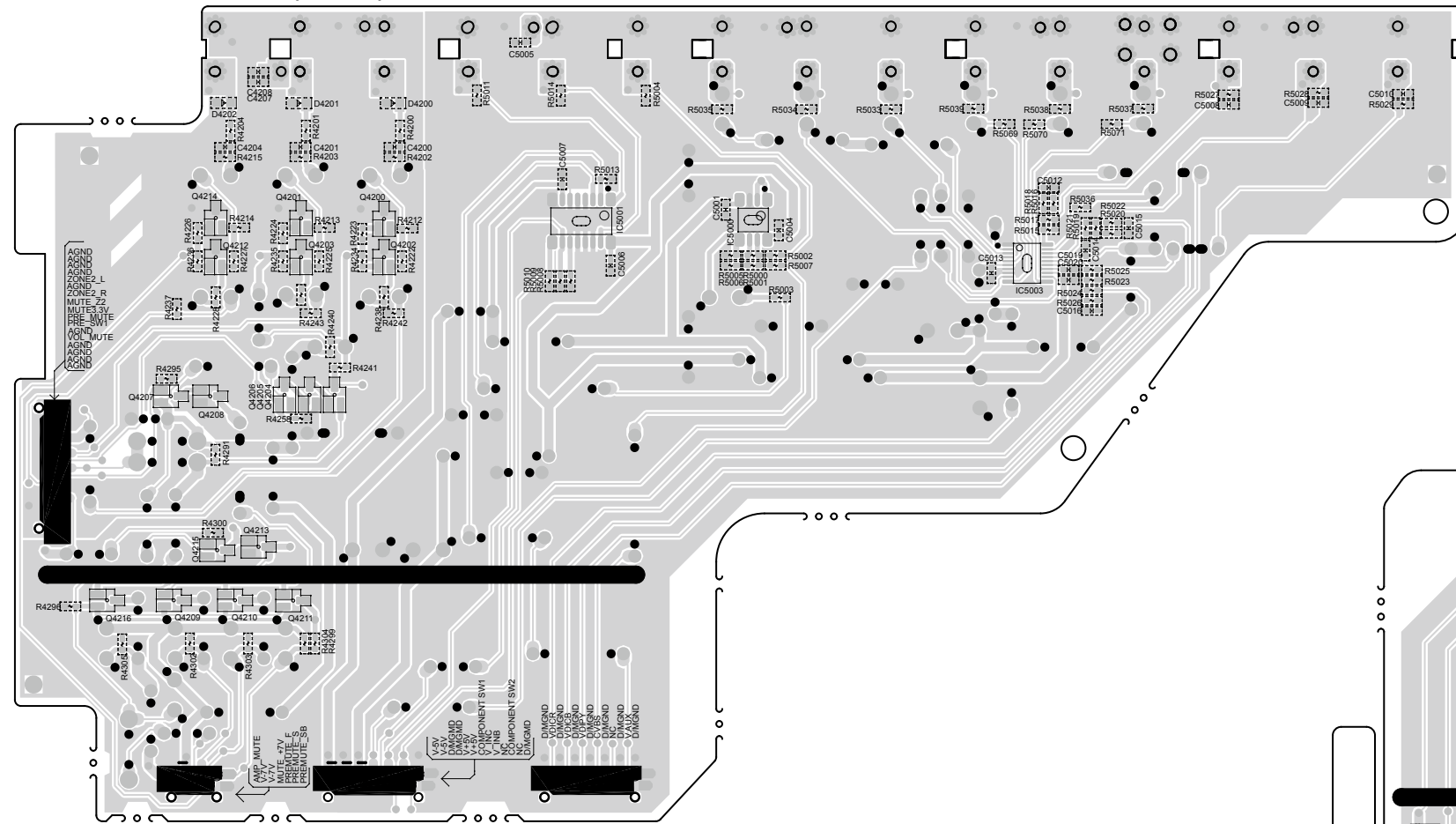
HDMI (B SIDE)

F HDMI (B SIDE)

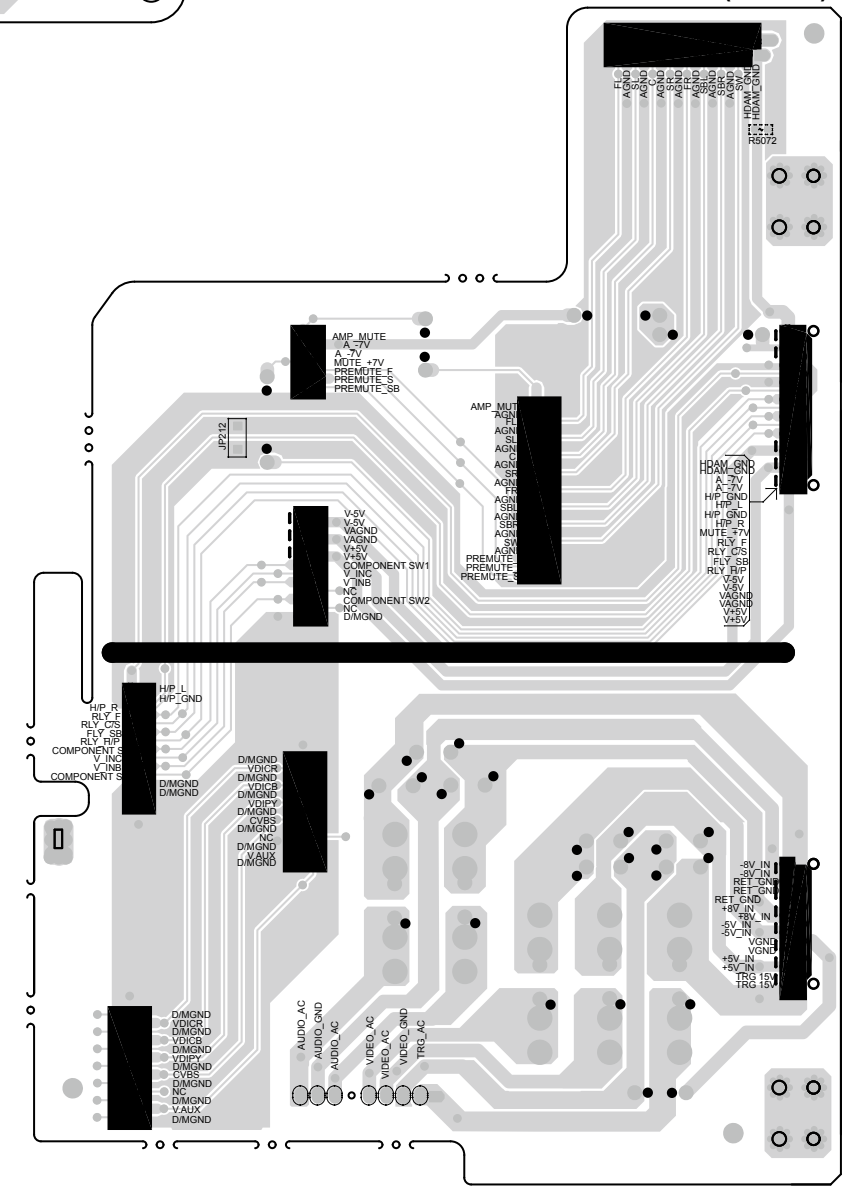




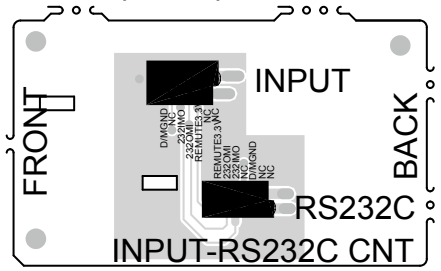
VIDEO (B SIDE)



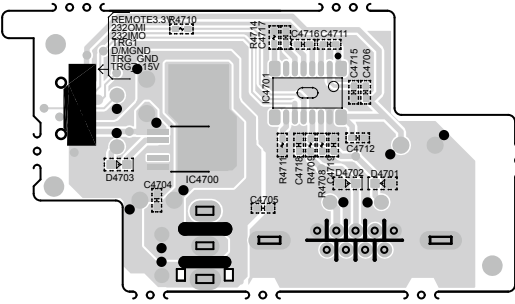
FRONT CNT (B SIDE)



RSCNT (B SIDE)

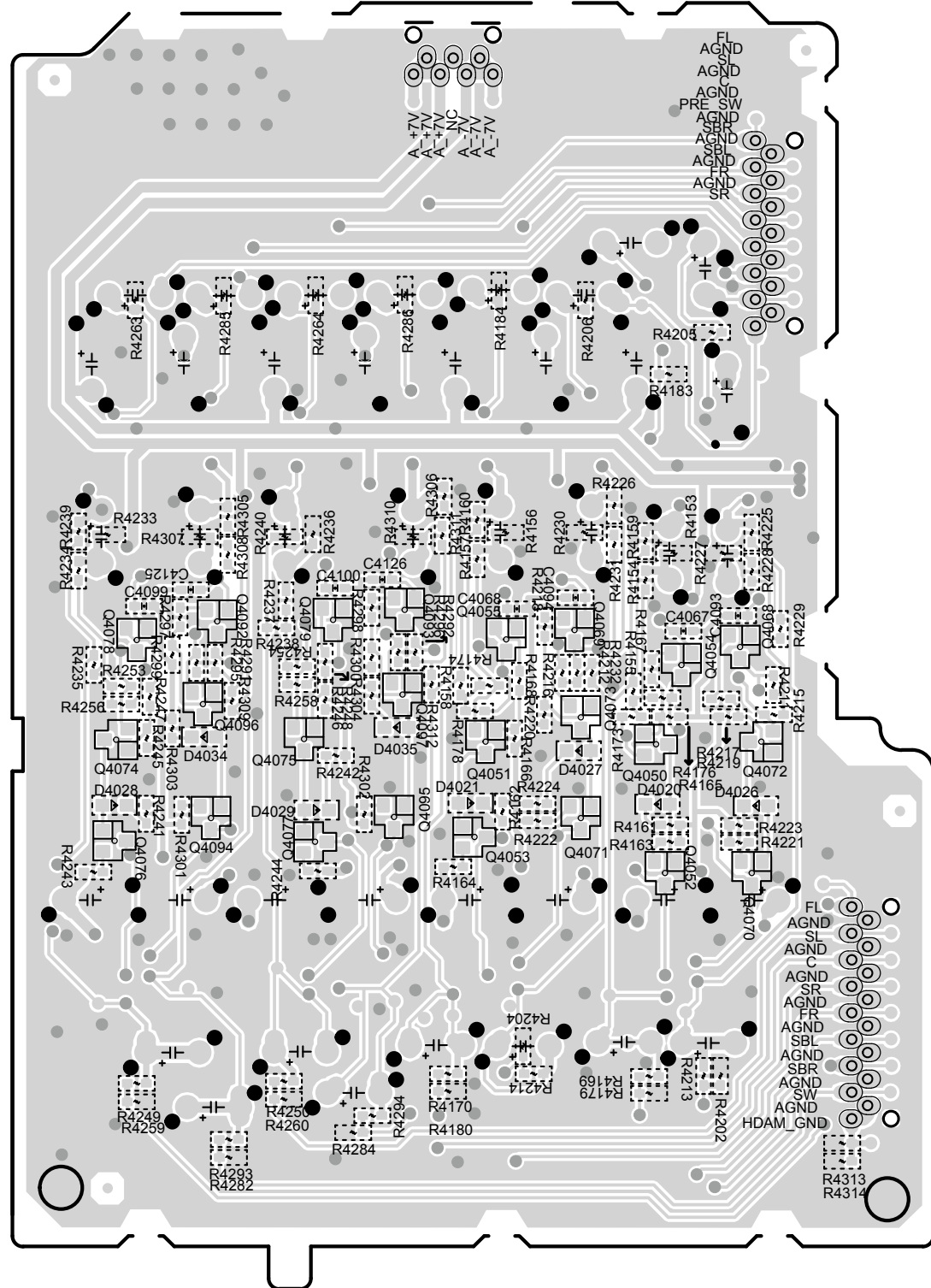
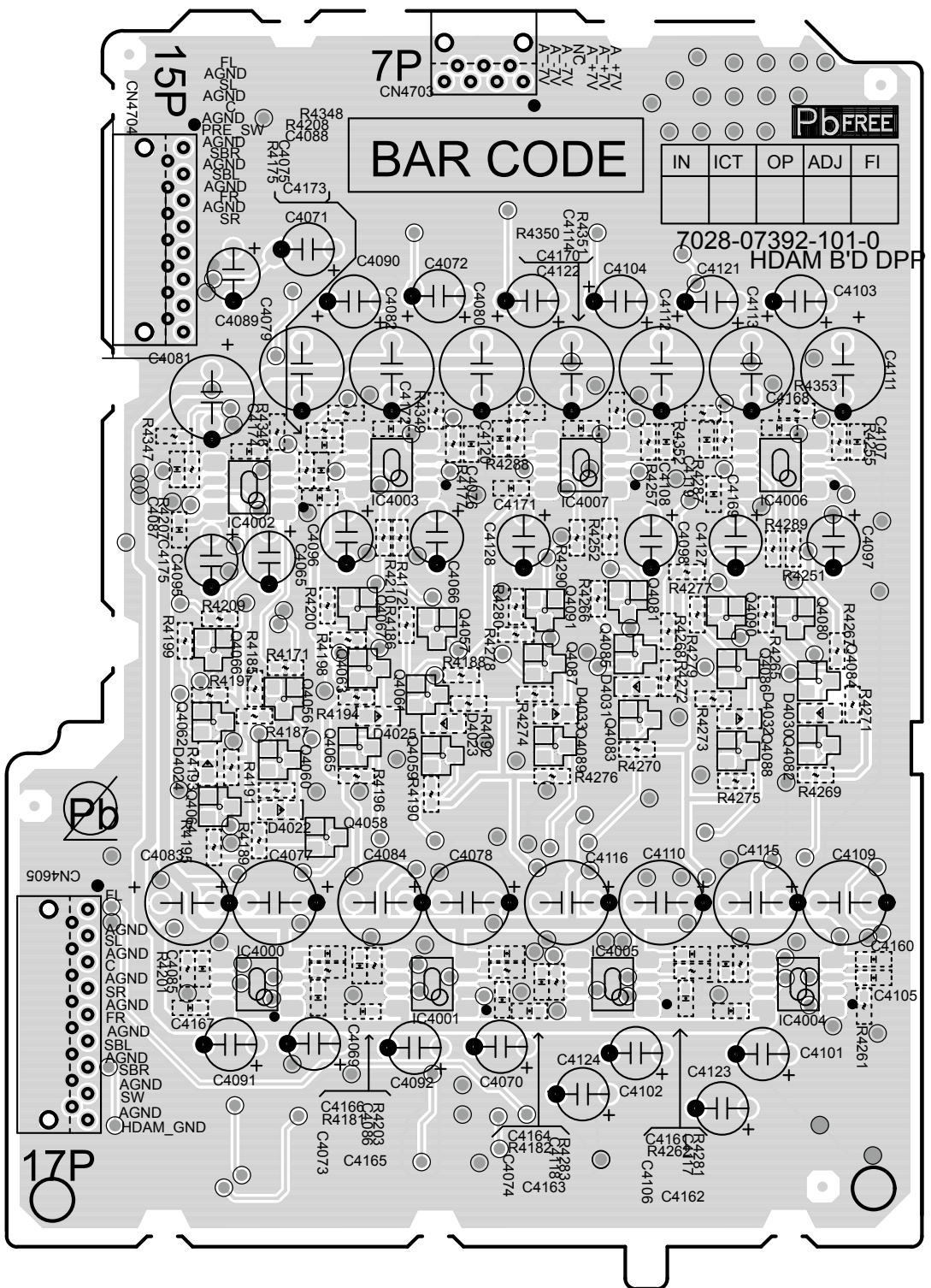


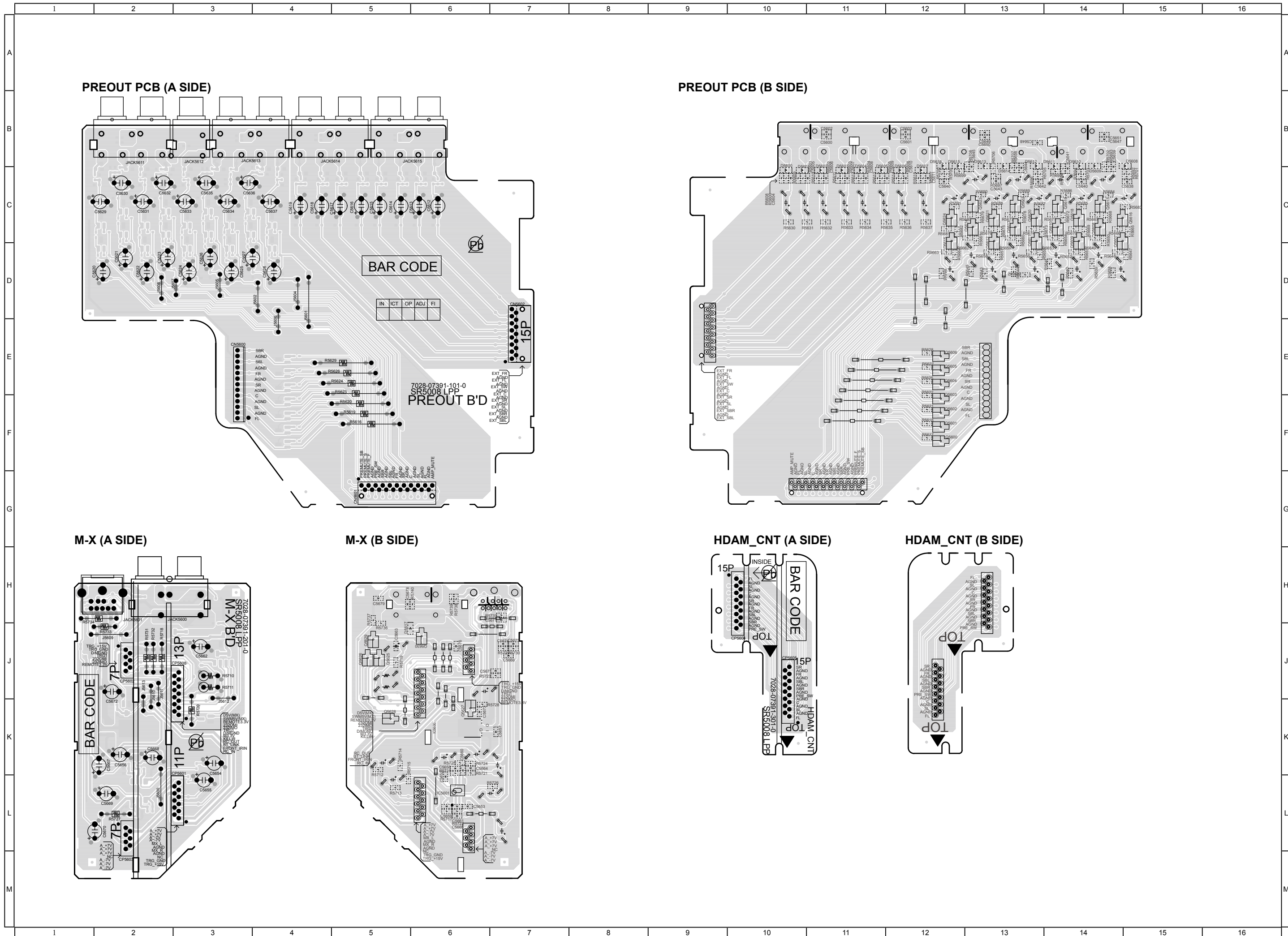
RS232C (B SIDE)



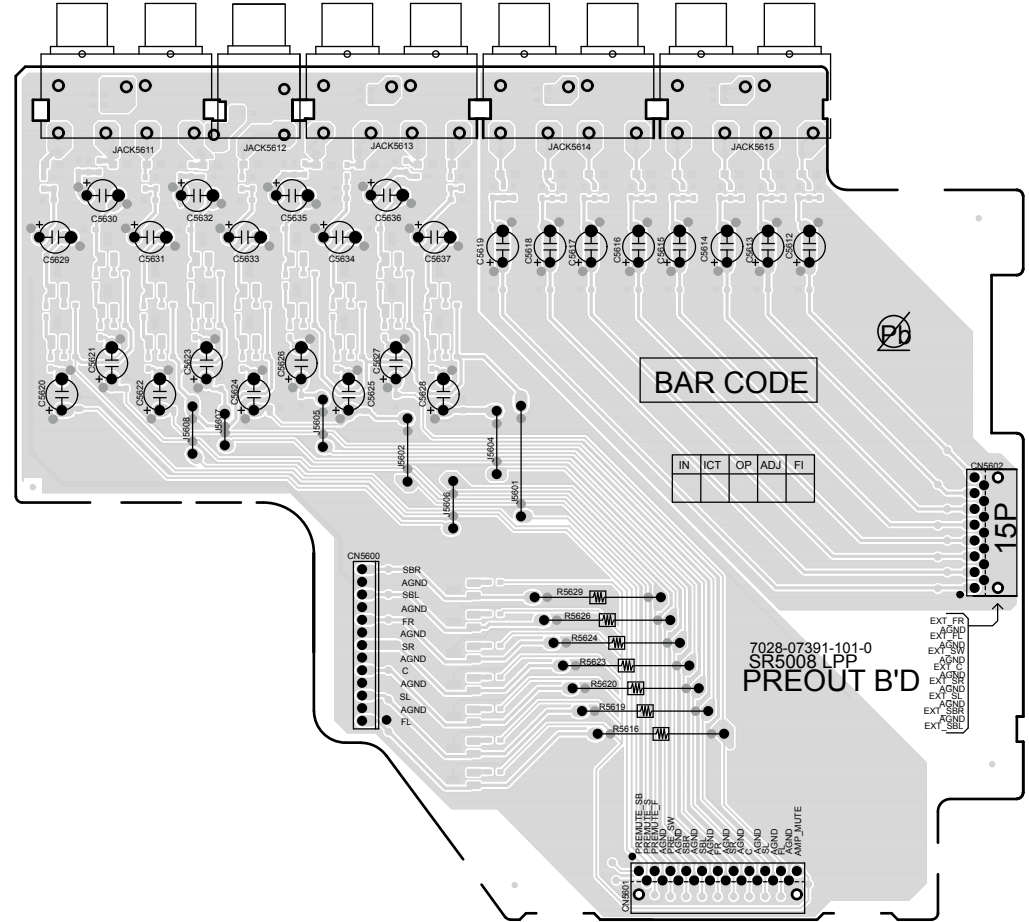
HDAM PCB (A SIDE)

HDAM PCB (B SIDE)

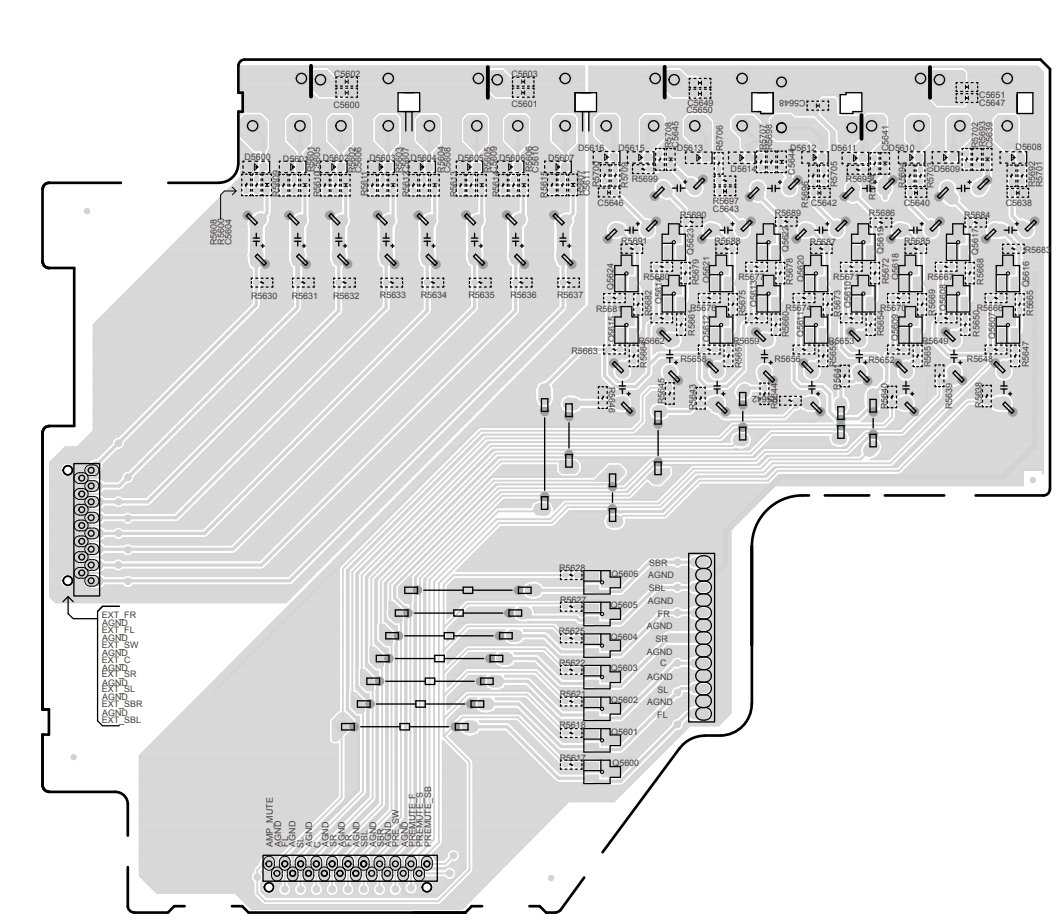




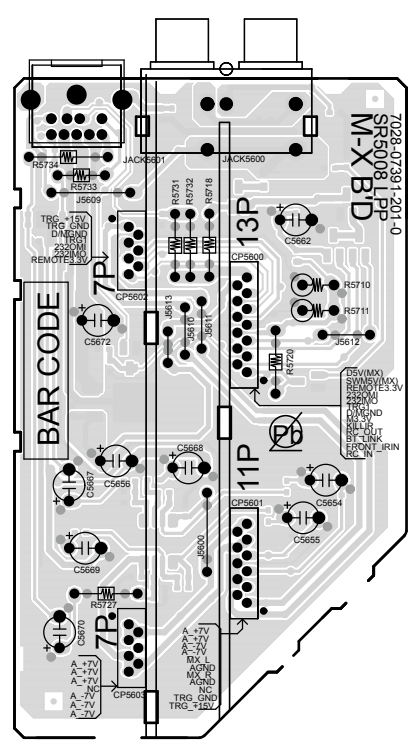
**PREOUT PCB (A SIDE)**



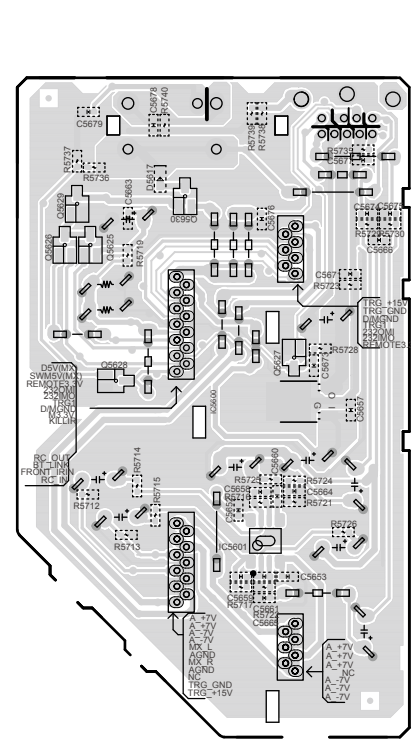
**PREOUT PCB (B SIDE)**



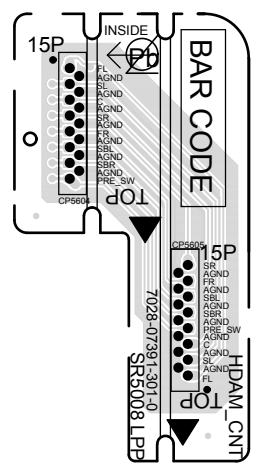
**M-X (A SIDE)**



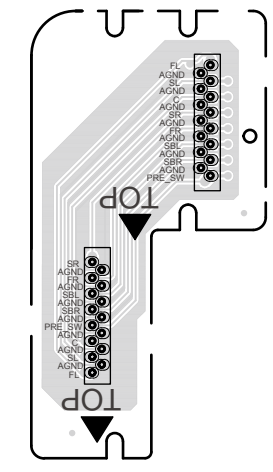
**M-X (B SIDE)**

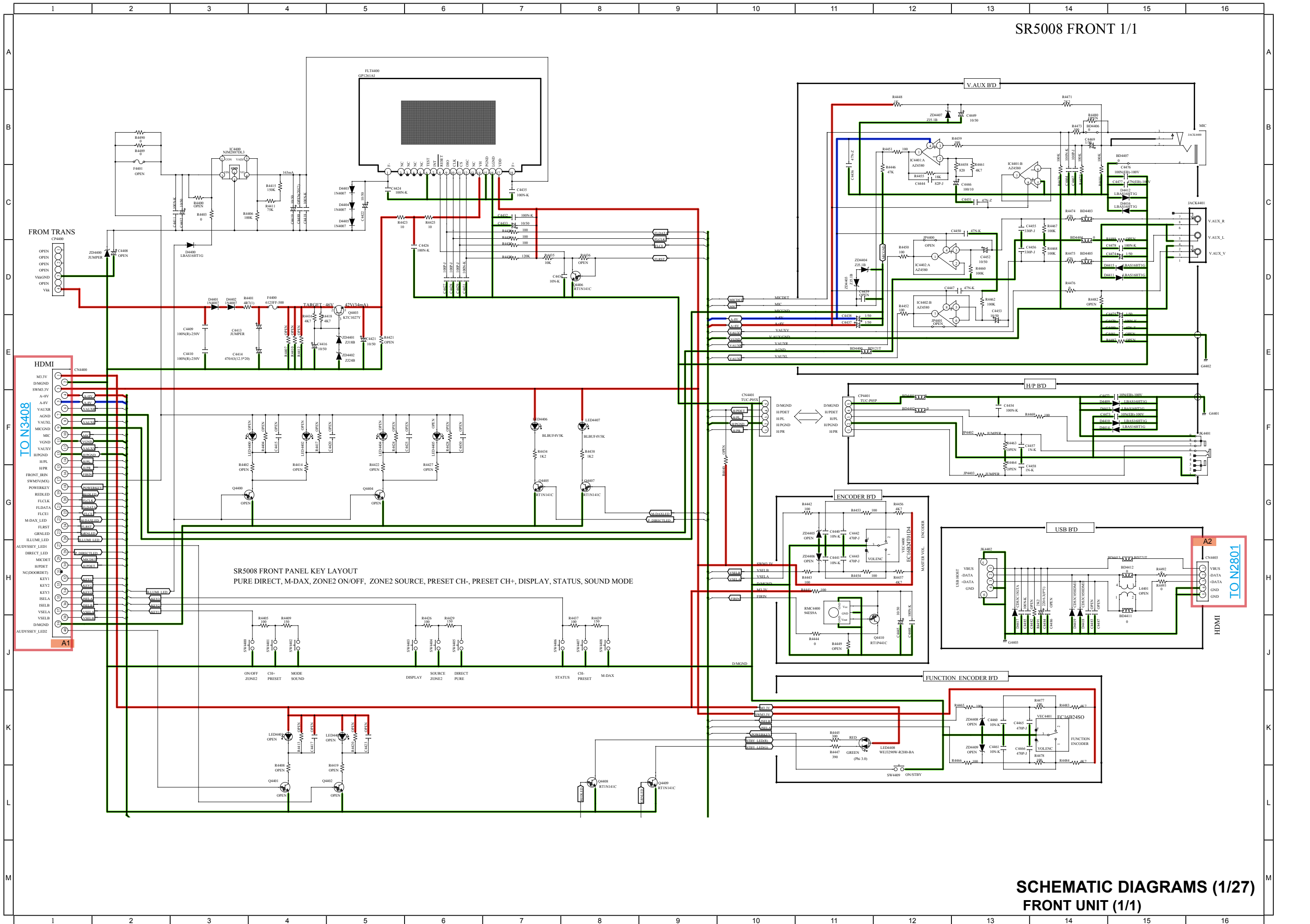


**HDAM\_CNT (A SIDE)**



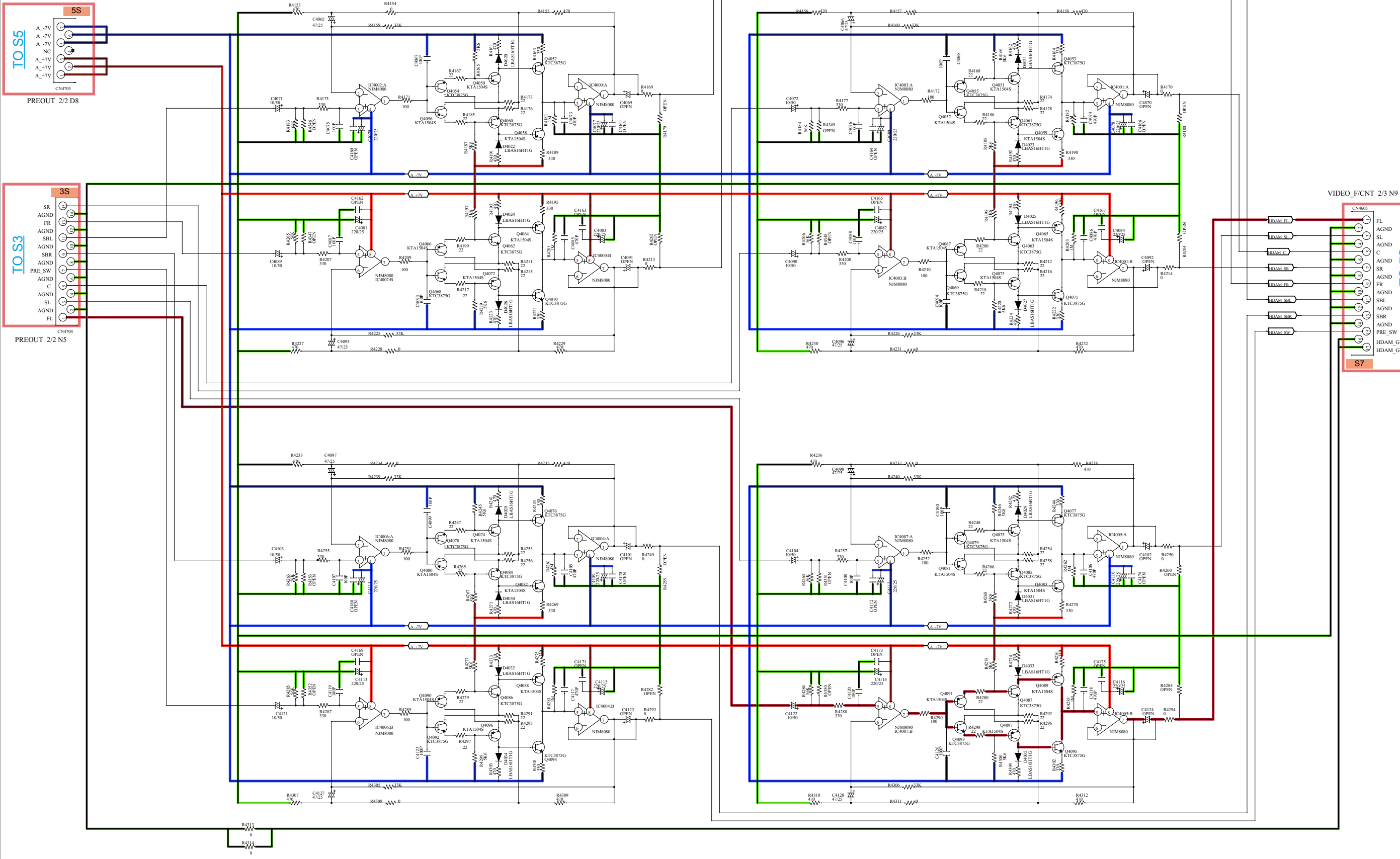
**HDAM\_CNT (B SIDE)**





SR5008 FRONT PANEL KEY LAYOUT  
 PURE DIRECT, M-DAX, ZONE2 ON/OFF, ZONE2 SOURCE, PRESET CH-, PRESET CH+, DISPLAY, STATUS, SOUND MODE

# CURRENT\_FB PART (SR5008 ONLY)



**5S**

TO S5

- A\_ -7V
- A\_ -7V
- A\_ -7V
- NC
- A\_ +7V
- A\_ +7V
- A\_ +7V

CN4703

PREOUT 2/2 D8

**3S**

TO S3

- SR
- AGND
- FR
- AGND
- SBL
- AGND
- SBR
- AGND
- PRE\_SW
- AGND
- C
- AGND
- SL
- AGND
- FL

CN4704

PREOUT 2/2 N5

VIDEO\_F/CNT 2/3 N9

TO S7

- FL
- AGND
- SL
- AGND
- C
- AGND
- SR
- AGND
- FR
- AGND
- SBL
- AGND
- SBR
- AGND
- PRE\_SW
- HDAM\_GND
- HDAM\_GND

S7

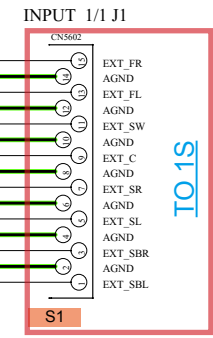
- GND LINE
- POWER+ LINE
- POWER- LINE
- ANALOG AUDIO
- DIGITAL1 AUDIO
- TMDS SIGNAL
- VIDEO SIGNAL
- COMPONENT(Y) SIGNAL

PREOUT PART  
EXT\_IN  
(SR5008 ONLY)

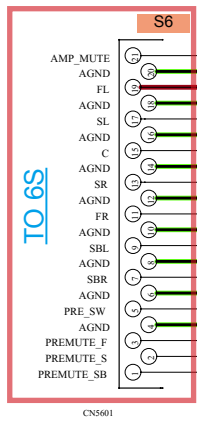
PREOUT 1/2

JACK5002

JACK5003



TO IS



TO 6S

VIDEO\_F/CNT 2/3 L7

AMP 1/2 A4

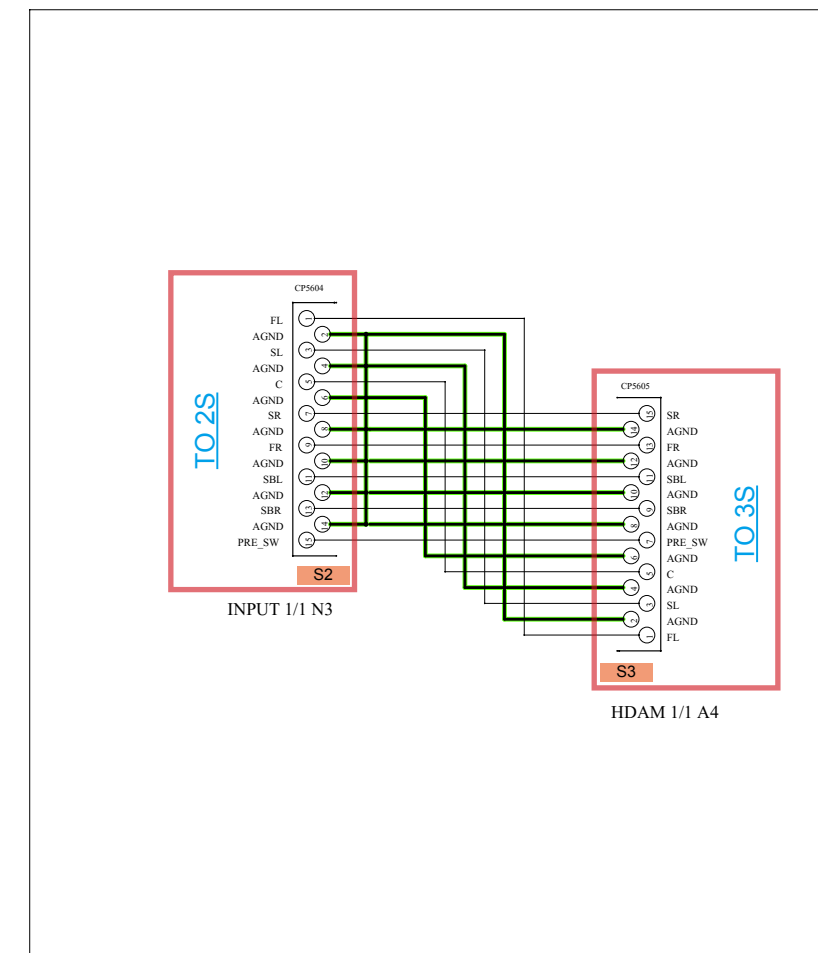
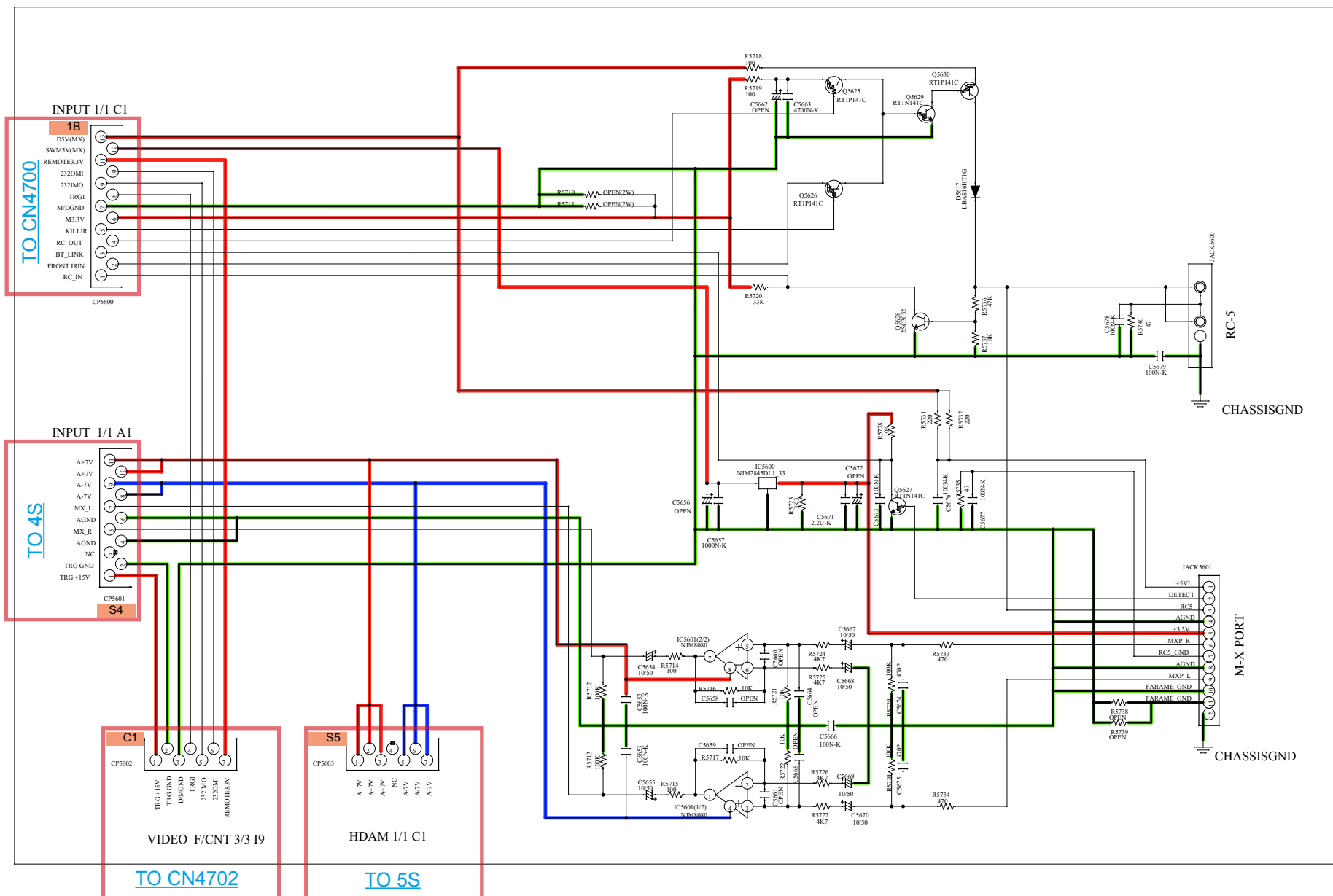
CHASSISGND



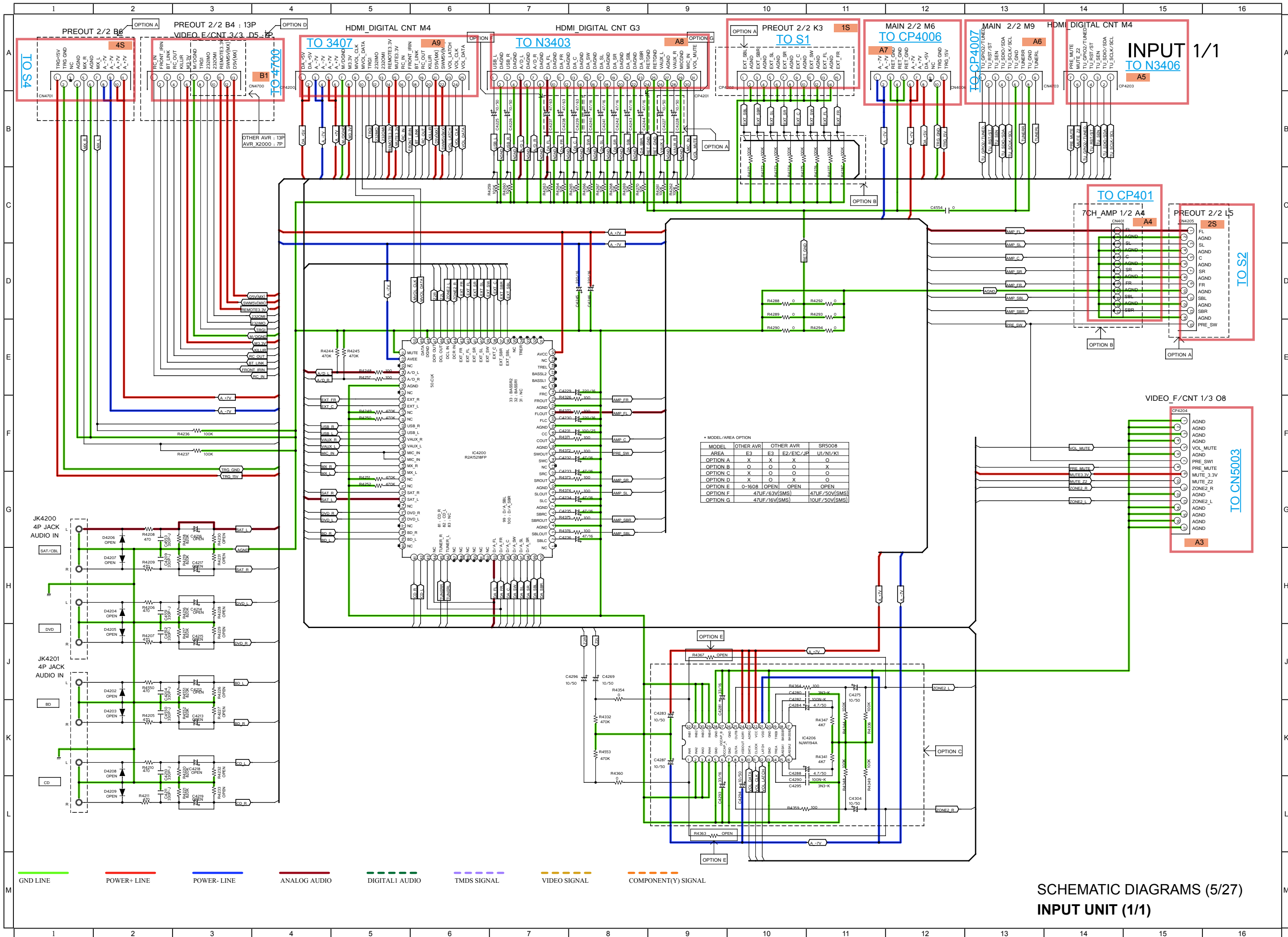
SCHEMATIC DIAGRAMS (3/27)  
PREOUT UNIT (1/2)

RC-5 / M-X PRAT  
SR5008 ONLY

HDAM CNT PART  
SR5008 ONLY



GND LINE    POWER+ LINE    POWER- LINE    ANALOG AUDIO    DIGITAL I AUDIO    TMDS SIGNAL    VIDEO SIGNAL    COMPONENT(Y) SIGNAL



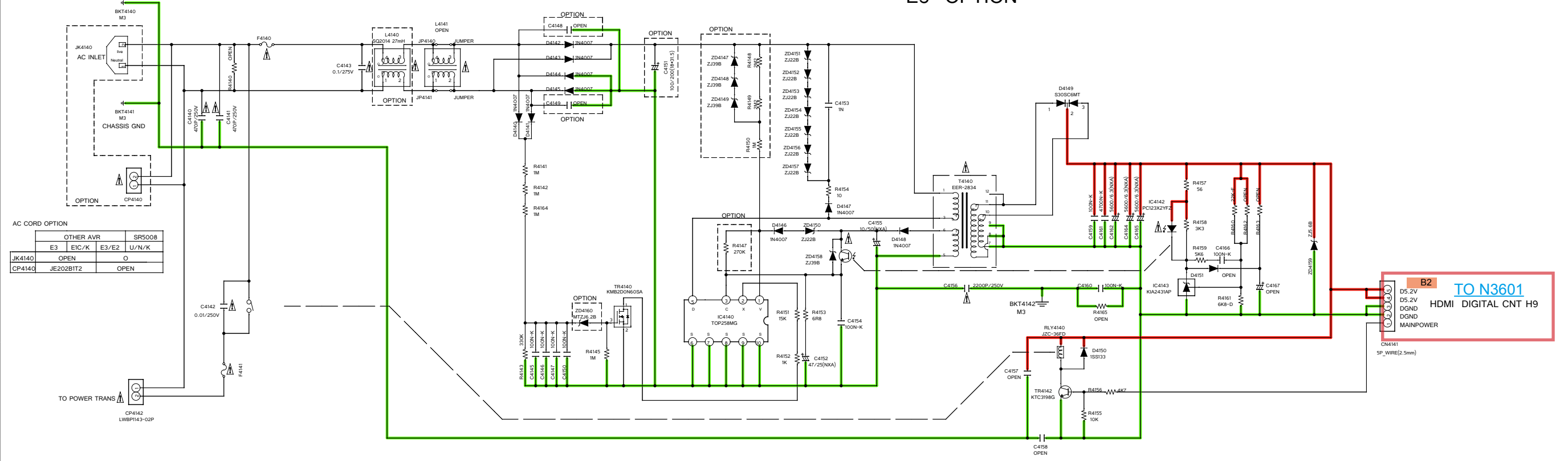
• MODEL/AREA OPTION

MODEL	OTHER AVR	E3	E2	E2/E1C/JP	U1/N1/K1
OPTION A	X	X	X	X	O
OPTION B	O	O	O	X	X
OPTION C	X	O	O	O	O
OPTION D	X	O	X	O	O
OPTION E	O-1608	OPEN	OPEN	OPEN	OPEN
OPTION F	47UF/63V(SMS)			47UF/50V(SMS)	
OPTION G	47UF/16V(SMS)			10UF/50V(SMS)	

SCHEMATIC DIAGRAMS (5/27)  
INPUT UNIT (1/1)

# SMPS B'D

E3 OPTION



AC CORD OPTION

	OTHER AVR	SRS008
E3	EIC/K	E3/E2
JK4140	OPEN	O
CP4140	JE202BIT2	OPEN

FUSE OPTION

	E3		JP		EIC, E2	
OTHER AVR	F4140	F4141	F4140	F4141	F4140	F4141
OTHER AVR	2A	6.3A	2A	6.3A	1.6A	3.15A
OTHER AVR	2A	6.3A	X	X	X	X

OPTION TABLE

	ZD4160	ZD4147	ZD4148	ZD4149	R4148	R4149	R4150	R4147	C4148	C4149	L4140	C4151
E3, U	MTZJ6.2H	MTZJ39B	MTZJ39B	MTZJ39B	2M2 (S)	2M2 (S)	1M (S)	270K	OPEN	OPEN	SQ2014 27mH	100/20P
E2,EIC,N,K	MTZJ16B	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	56K	0.01	0.01	SQ2014 50mH	100/40P
JPN	MTZJ5.6H	MTZJ39B	MTZJ39B	MTZJ39B	2M2 (S)	2M2 (S)	1M (S)	270K	OPEN	OPEN	SQ2014 27mH	100/20P

FUSE OPTION

	UIB		NISG, NIB, KIB	
OTHER AVR	F4140	F4141	F4140	F4141
OTHER AVR	2A	6.3A	1.6A	3.15A

B2 TO N3601  
HDMI DIGITAL CNT H9

DS.2V  
DS.2V  
DGND  
DGND  
MAINPOWER

CN4141  
SP\_WIRE(2.5mm)

⚠ INDICATES SAFETY CRITICAL COMPONENTS.  
TO REDUCE THE RISK OF ELECTRIC SHOCK, LEAKAGE CURRENT OR RESISTANCE MEASUREMENTS SHALL BE CARRIED OUT ( EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT ) BEFORE THE APPLIANCE RETURNED TO THE CUSTOMER.

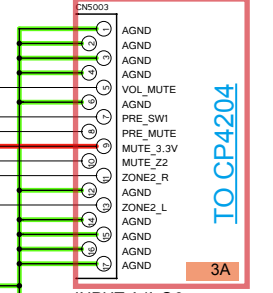
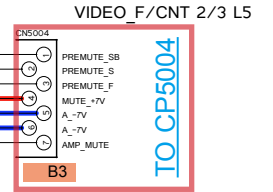
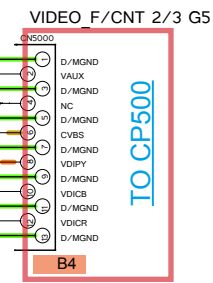
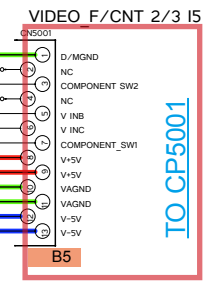
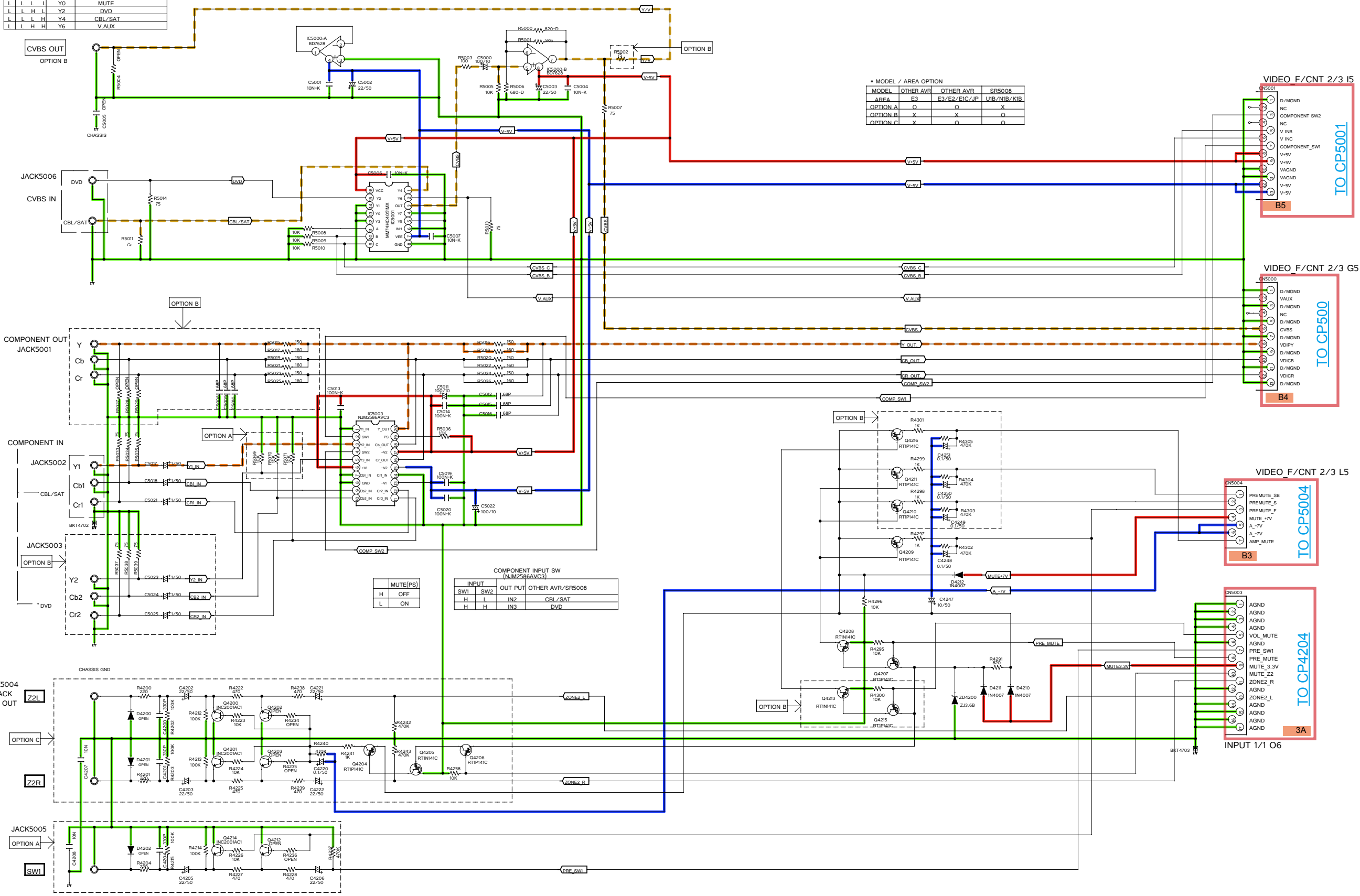


VIDEO / ZONE2 PART

CVBS INPUT SW (MM74HC4051MX)		OTHER AVR/SR5008	
INPUT	A B C	OUT PUT	
L	L L L	Y0	MUTE
L	L L H	Y2	DVD
L	L H H	Y4	CBL/SAT
L	L H H	Y6	V_AUX

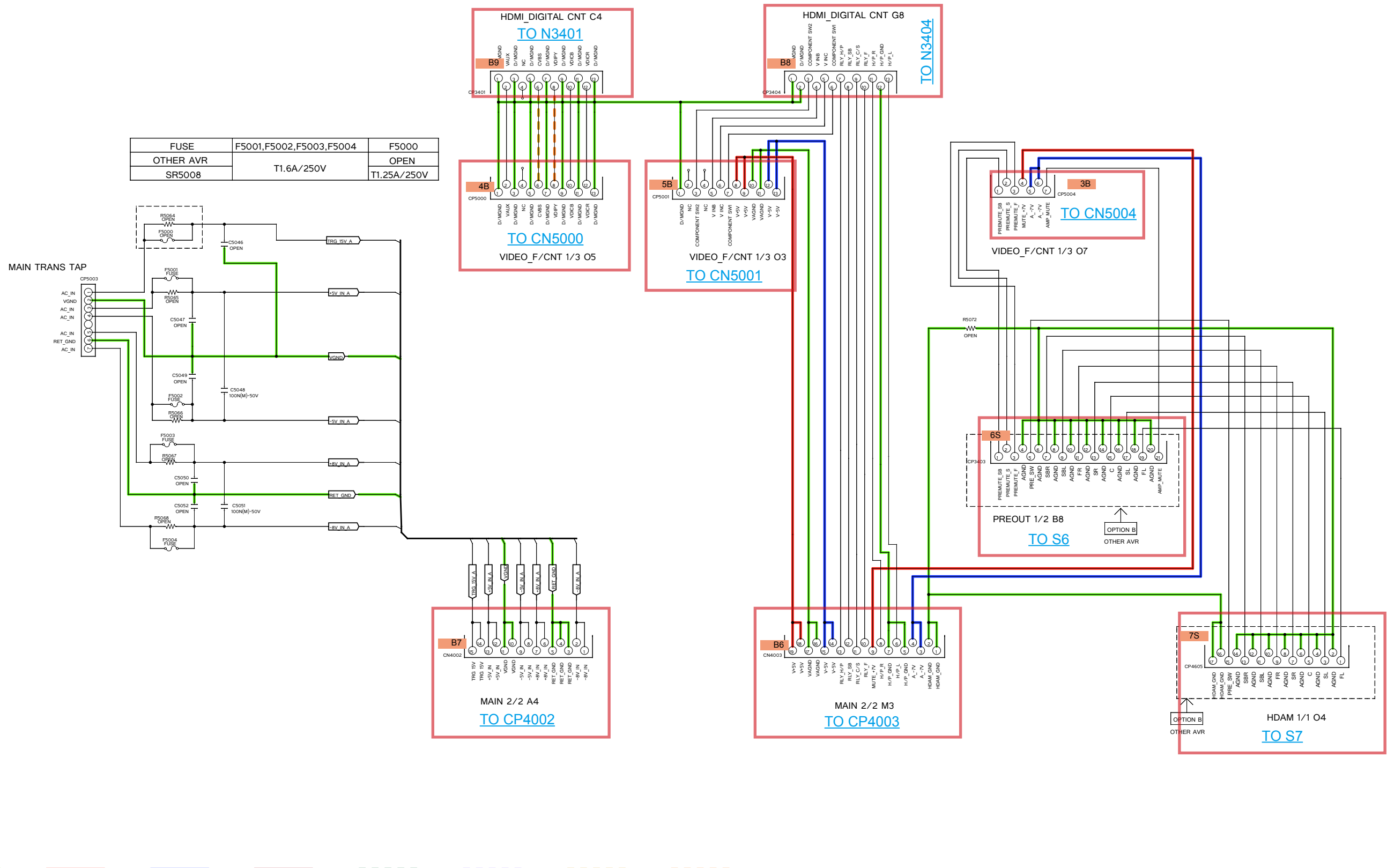
• MODEL / AREA OPTION

MODEL	OTHER AVR	OTHER AVR	SR5008
AREA	E3	E3/E2/E1C/JP	UIB/NIB/K1B
OPTION A	O	O	X
OPTION B	X	X	O
OPTION C	X	O	O



GND LINE    POWER+ LINE    POWER- LINE    ANALOG AUDIO    DIGITAL1 AUDIO    TMD5 SIGNAL    VIDEO SIGNAL    COMPONENT(Y) SIGNAL

# FRONT CNT PART

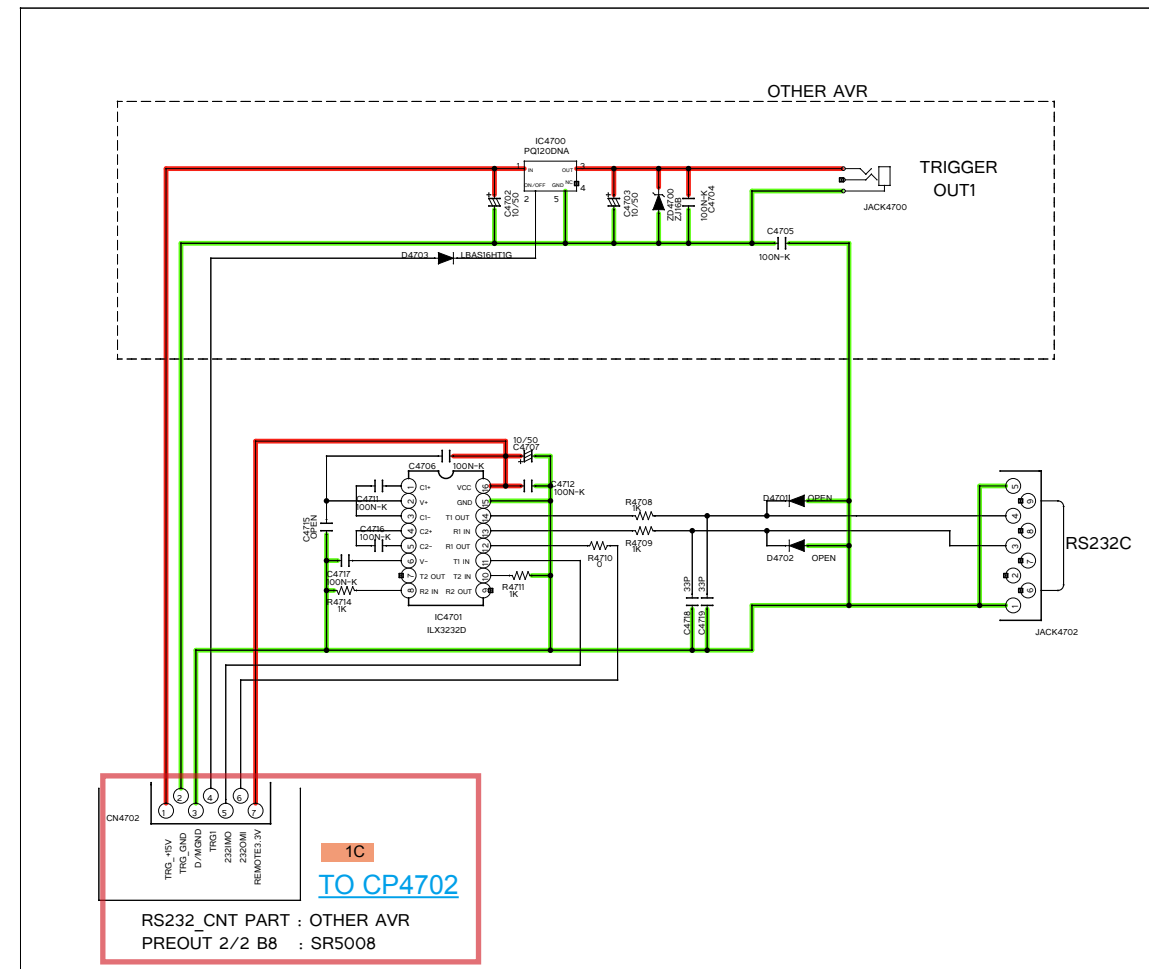
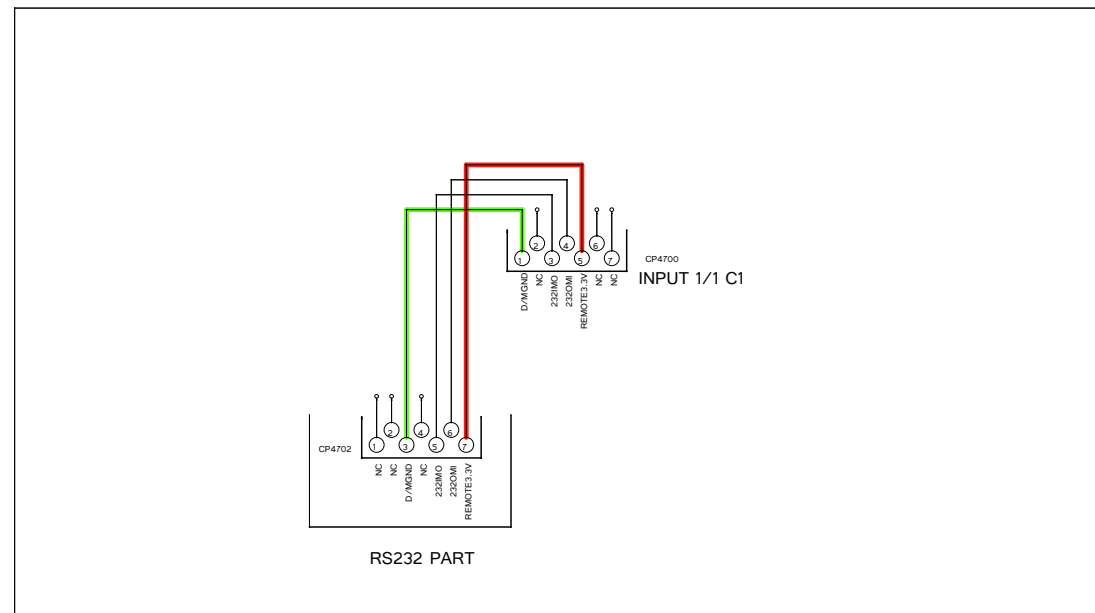


FUSE	F5001,F5002,F5003,F5004	F5000
OTHER AVR	T1.6A/250V	OPEN
SR5008		T1.25A/250V

- GND LINE
- POWER+ LINE
- POWER- LINE
- ANALOG AUDIO
- DIGITAL I AUDIO
- TMDS SIGNAL
- VIDEO SIGNAL
- COMPONENT(Y) SIGNAL

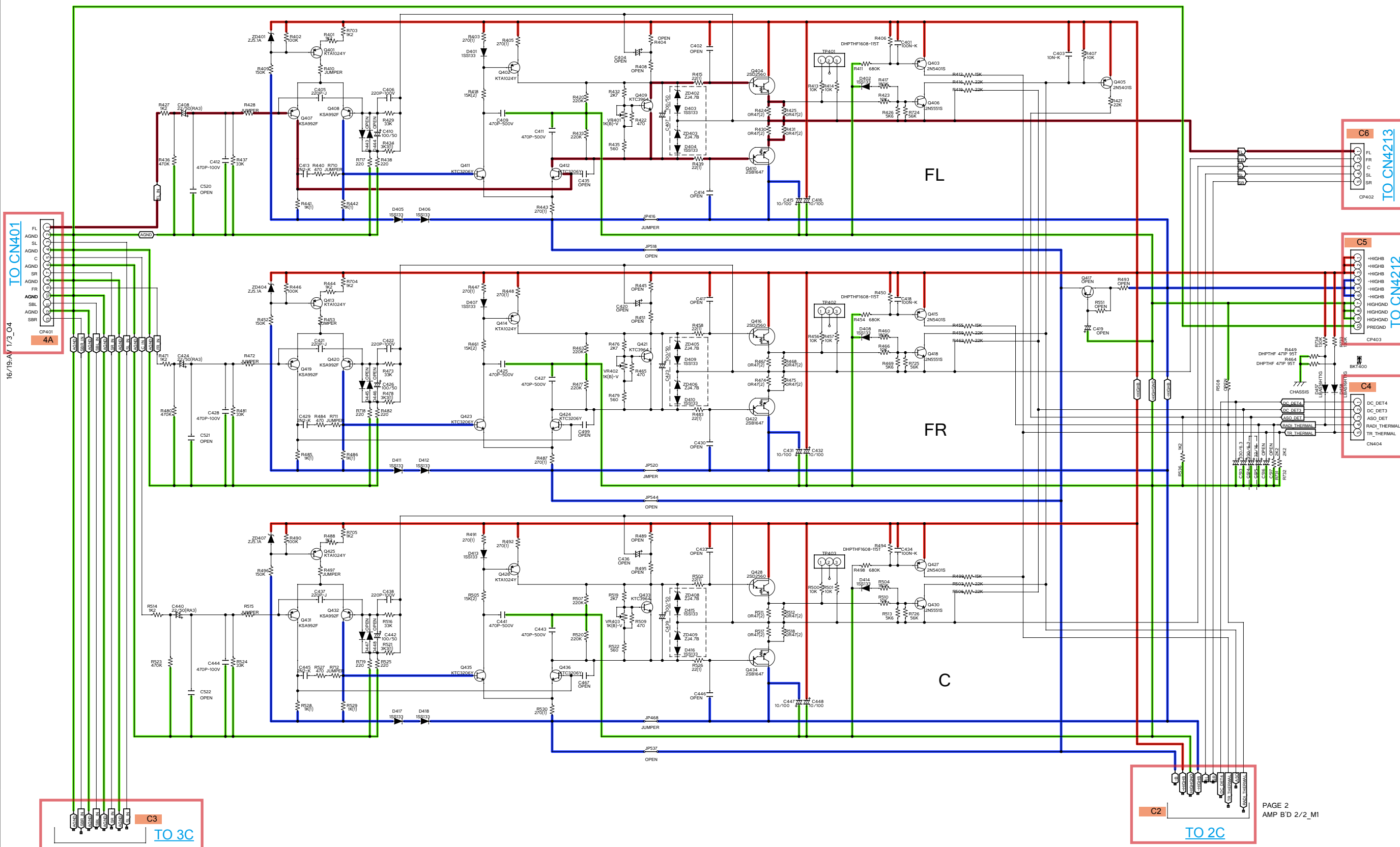
RS232 CNT PART  
(OTHER AVR E3 ONLY)

RS232 / TRG PART



GND LINE      POWER+ LINE      POWER- LINE      ANALOG AUDIO      DIGITAL I AUDIO      TMDS SIGNAL      VIDEO SIGNAL      COMPONENT(Y) SIGNAL

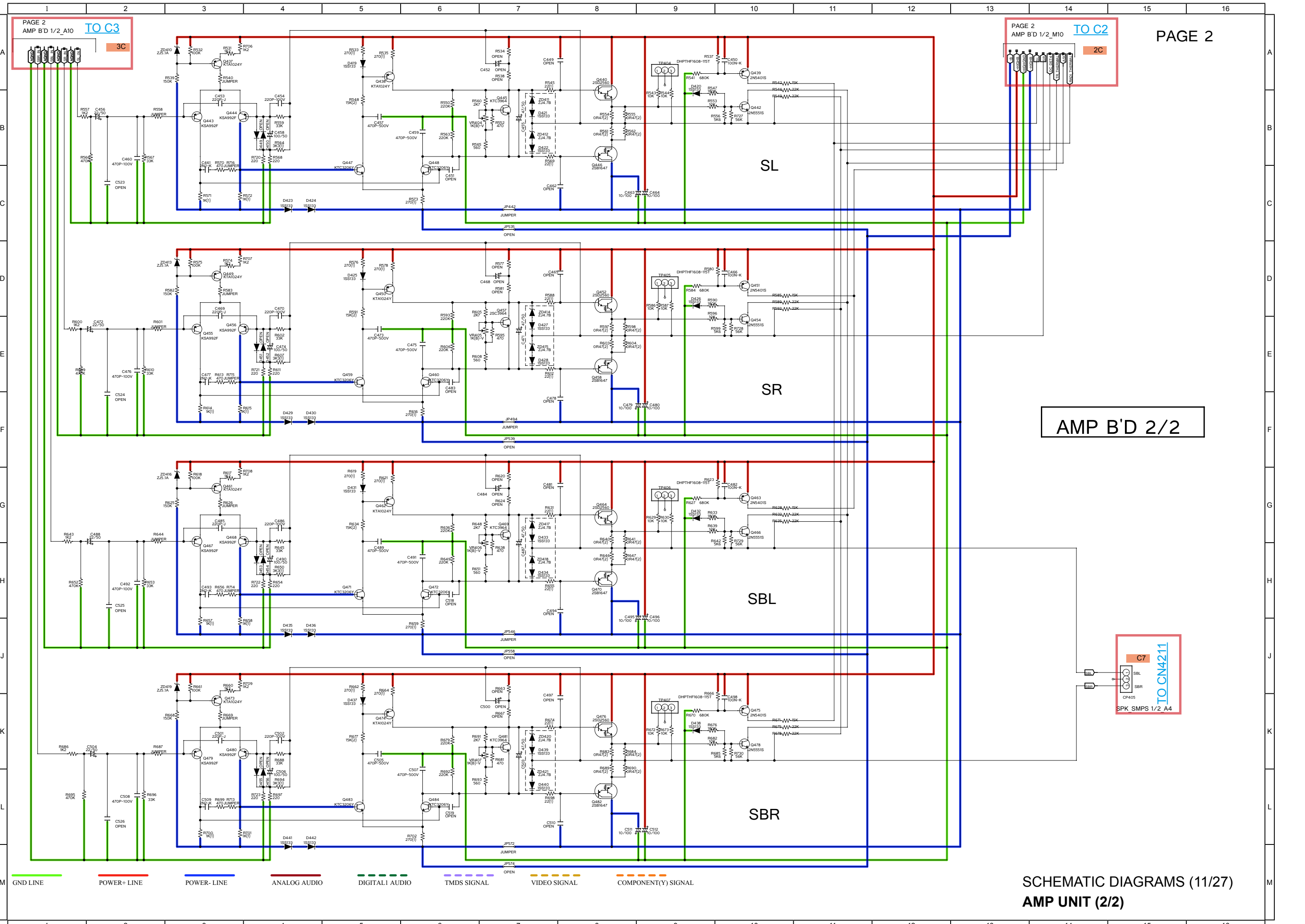
# AMP B'D 1/2



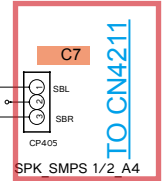
PAGE 2  
AMP B'D 2/2\_A1

PAGE 2  
AMP B'D 2/2\_M1

SCHEMATIC DIAGRAMS (10/27)  
AMP UNIT (1/2)



AMP B'D 2/2



— GND LINE   
 — POWER+ LINE   
 — POWER- LINE   
 — ANALOG AUDIO   
 — DIGITAL1 AUDIO   
 — TMD5 SIGNAL   
 — VIDEO SIGNAL   
 — COMPONENT(Y) SIGNAL

SCHEMATIC DIAGRAMS (11/27)  
AMP UNIT (2/2)

# SPK PART

# MAIN 1/2

TO CP402  
7CH\_AMP 1/2 O3  
6C  
CN4213

TO CP405  
7CH\_AMP 2/2 N9  
7C  
CN4211

TO CP403  
7CH\_AMP 1/2 O5  
5C  
CN4212

REG PART  
TO 8C  
C8

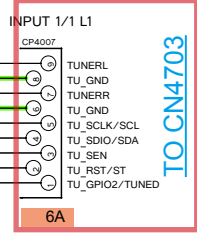
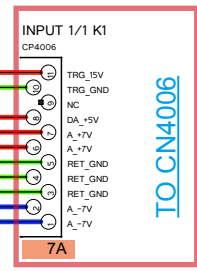
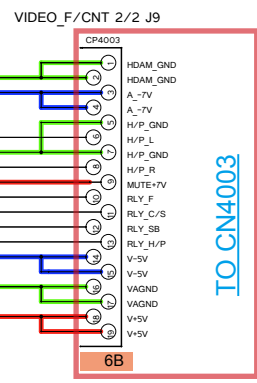
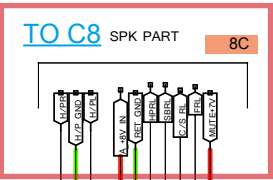
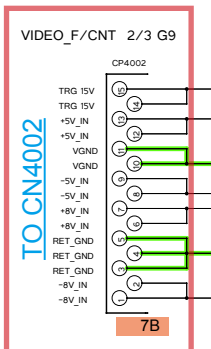
MODEL	AREA	OTHER AVR	OTHER AVR	SR5008
OPTION I	E3	E3/E1C	E2	U1B/N1B/K1B
OPTION J	OPEN	OPEN	OPEN	47NF(M)/50V
OPTION K	22N/100V(PP 2A223J)	OPEN	OPEN	2N2F/50V
OPTION L	100N/100V(2A104J)	OPEN	OPEN	OPEN
OPTION M	0.1UF/50V(PE 1H221J)	OPEN	OPEN	100N/250V
OPTION O	10000UF/71V	12000UF/71V	10000UF/71V	0.1UF/50V(SMS)

— GND LINE   
 — POWER+ LINE   
 — POWER- LINE   
 — ANALOG AUDIO   
 - - - DIGITAL1 AUDIO   
 - - - TMDS SIGNAL   
 - - - VIDEO SIGNAL   
 - - - COMPONENT(Y) SIGNAL

SCHEMATIC DIAGRAMS (12/27)  
MAIN UNIT (1/2)

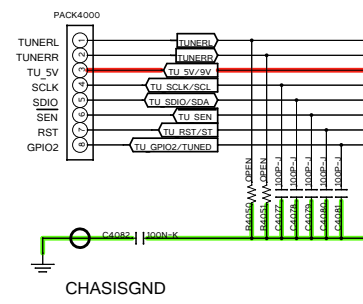
# TUNER / REG PART

MAIN 2/2



\* MODEL / AREA OPTION

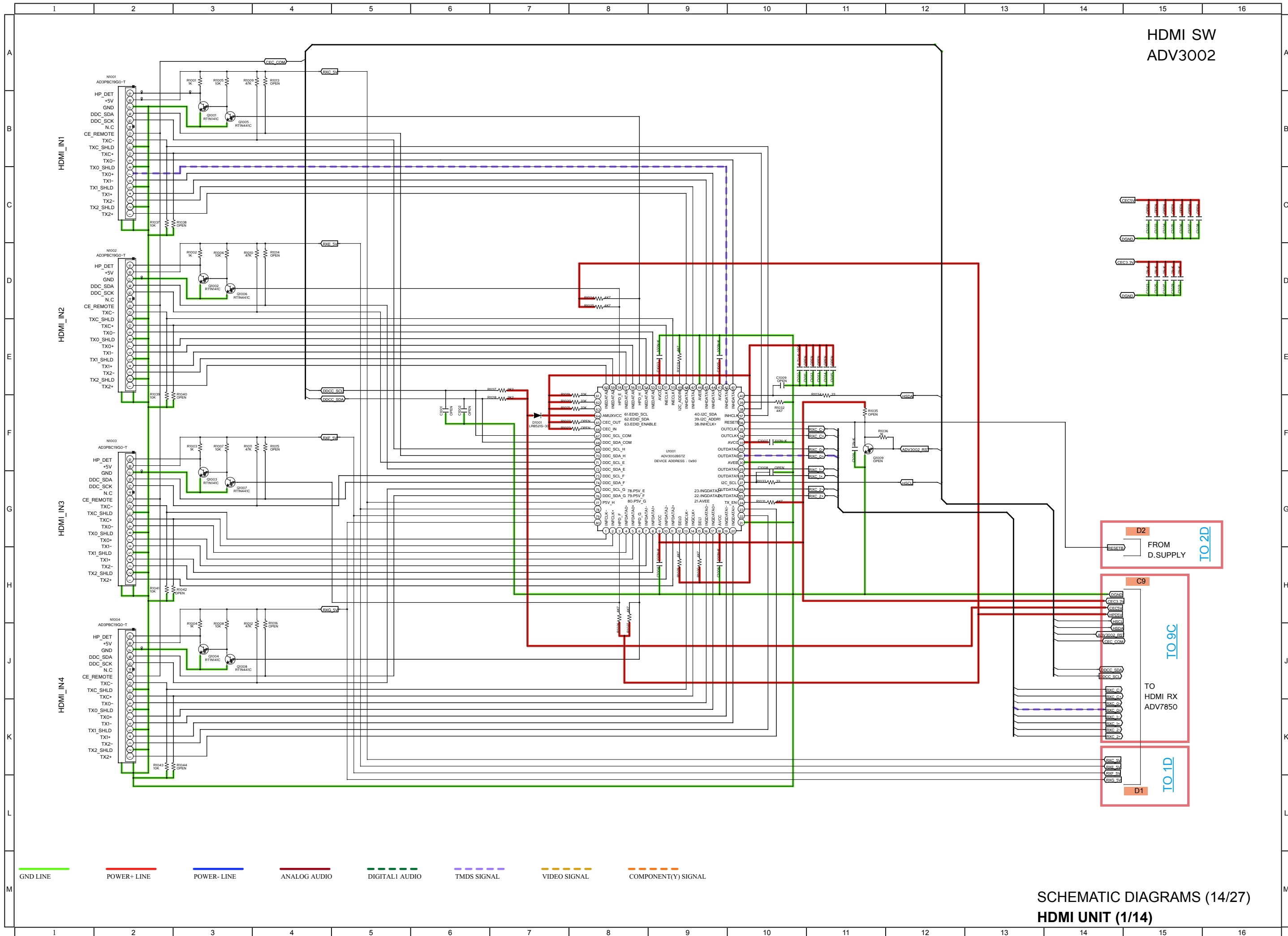
MODEL	OTHER AVR	OTHER AVR	SR5008
AREA	F3	E3/E2/E1C	UIB/NIB/K1B
OPTION A	X		O
OPTION B	O		X
OPTION C	4700UF/25V	6800UF/25V	
OPTION D	KIA7808API	BA08T	
OPTION E	470UF/50V(SHL)	100UF/16V(SMS)	
OPTION F	470UF/50V(SMS)	100UF/16V(SMS)	
OPTION G	OPEN	ZJ33B	
OPTION H	OPEN	RB721Q	



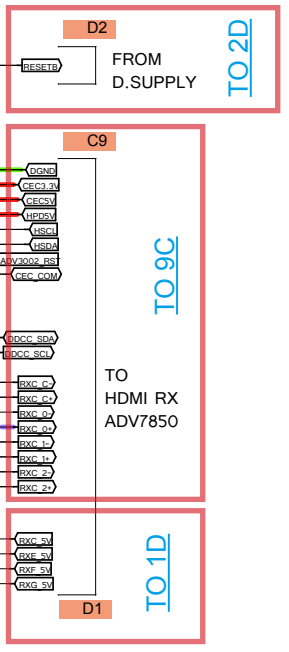
GND LINE    POWER+ LINE    POWER- LINE    ANALOG AUDIO    DIGITAL I AUDIO    TMD5 SIGNAL    VIDEO SIGNAL    COMPONENT(Y) SIGNAL

SCHEMATIC DIAGRAMS (13/27)  
MAIN UNIT (2/2)

HDMI SW  
ADV3002

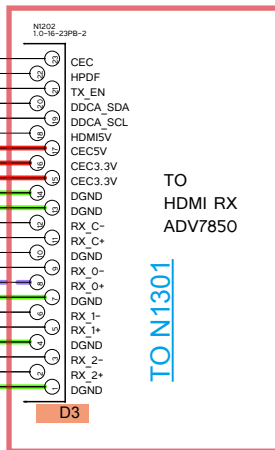
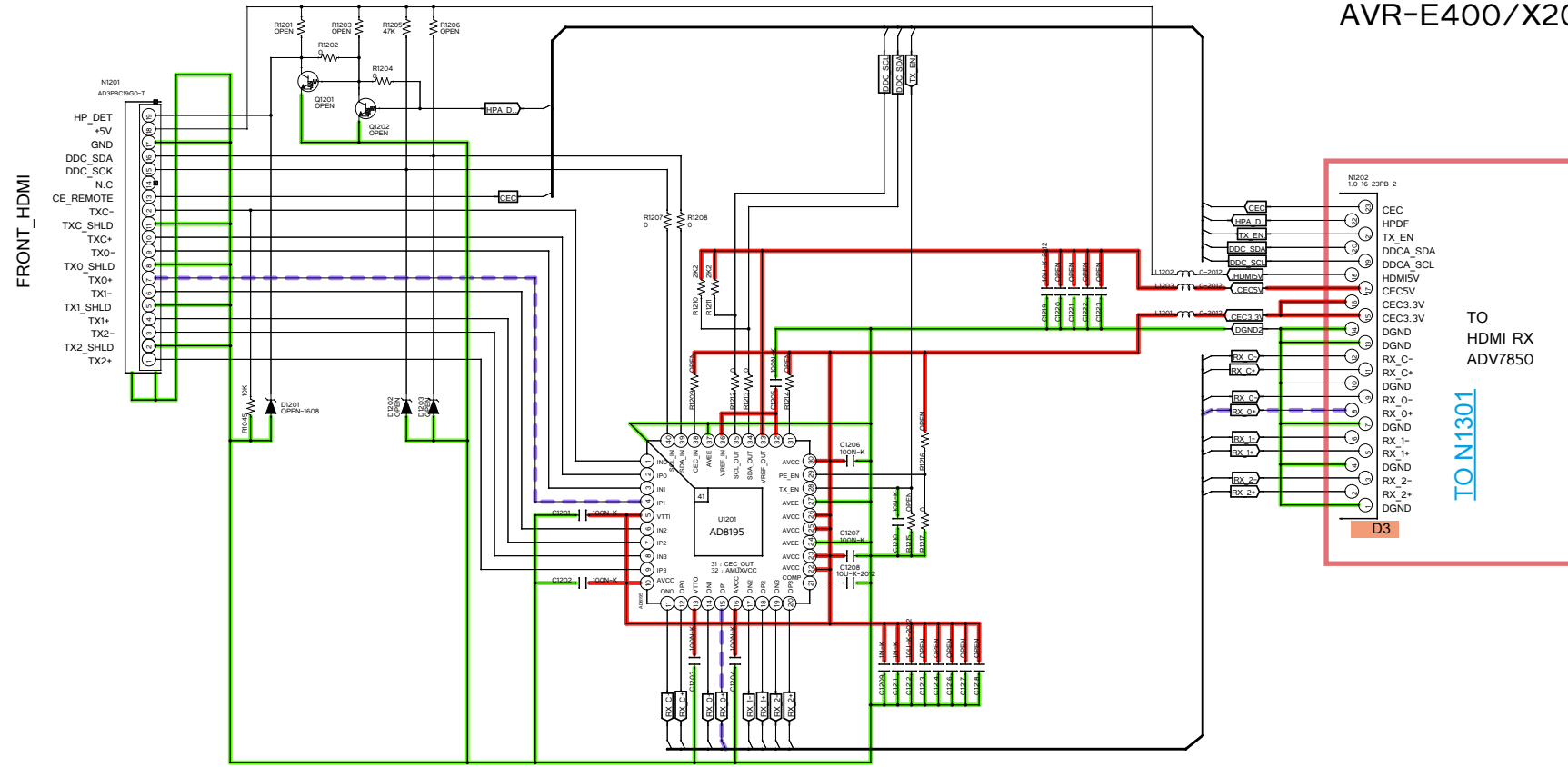


— GND LINE  
— POWER+ LINE  
— POWER- LINE  
— ANALOG AUDIO  
- - - DIGITAL1 AUDIO  
- - - TMDS SIGNAL  
- - - VIDEO SIGNAL  
- - - COMPONENT(Y) SIGNAL

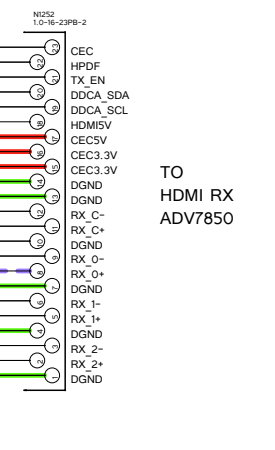
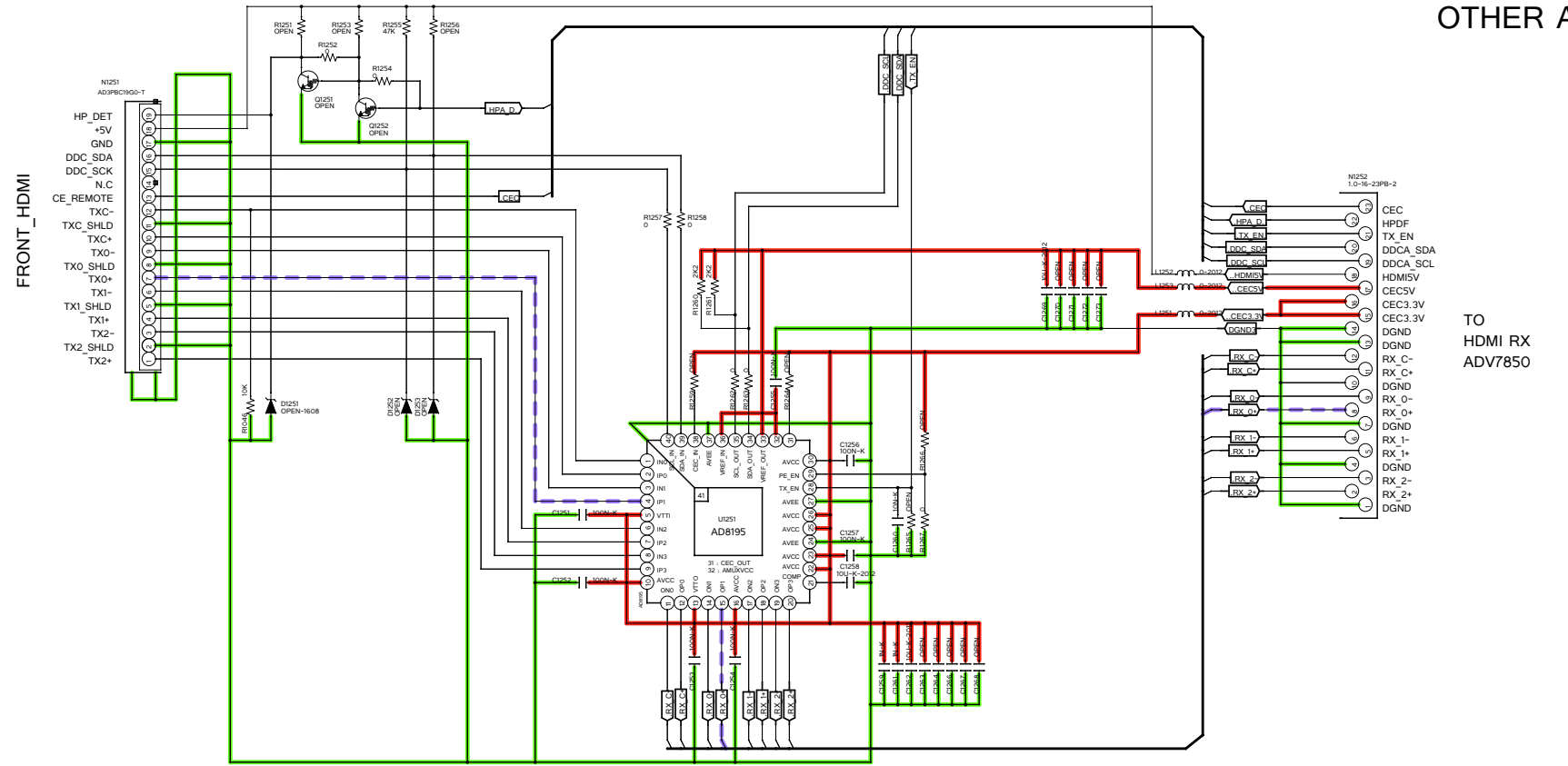


AVR-E400/X2000

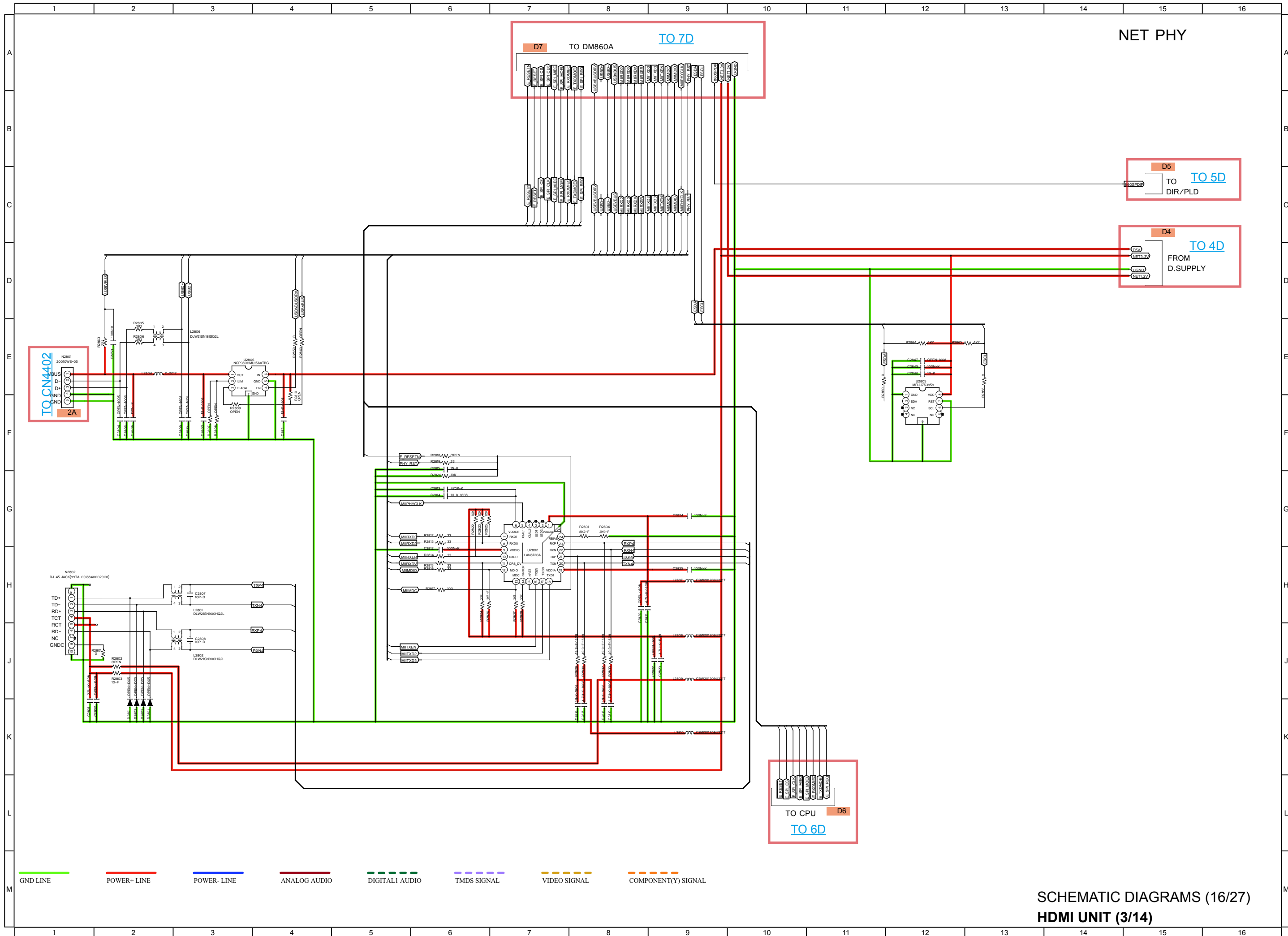
FRONT HDMI



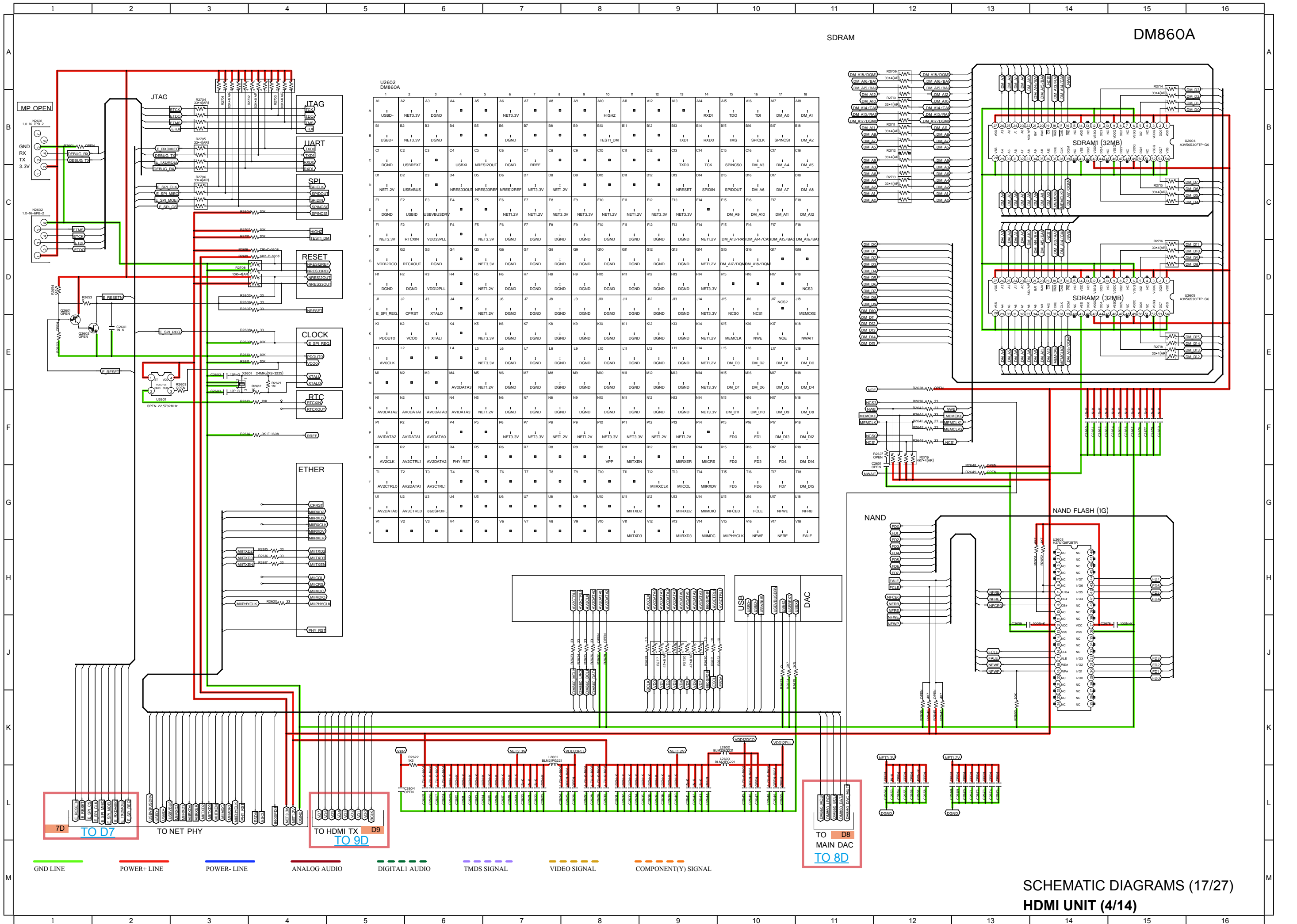
OTHER AVR



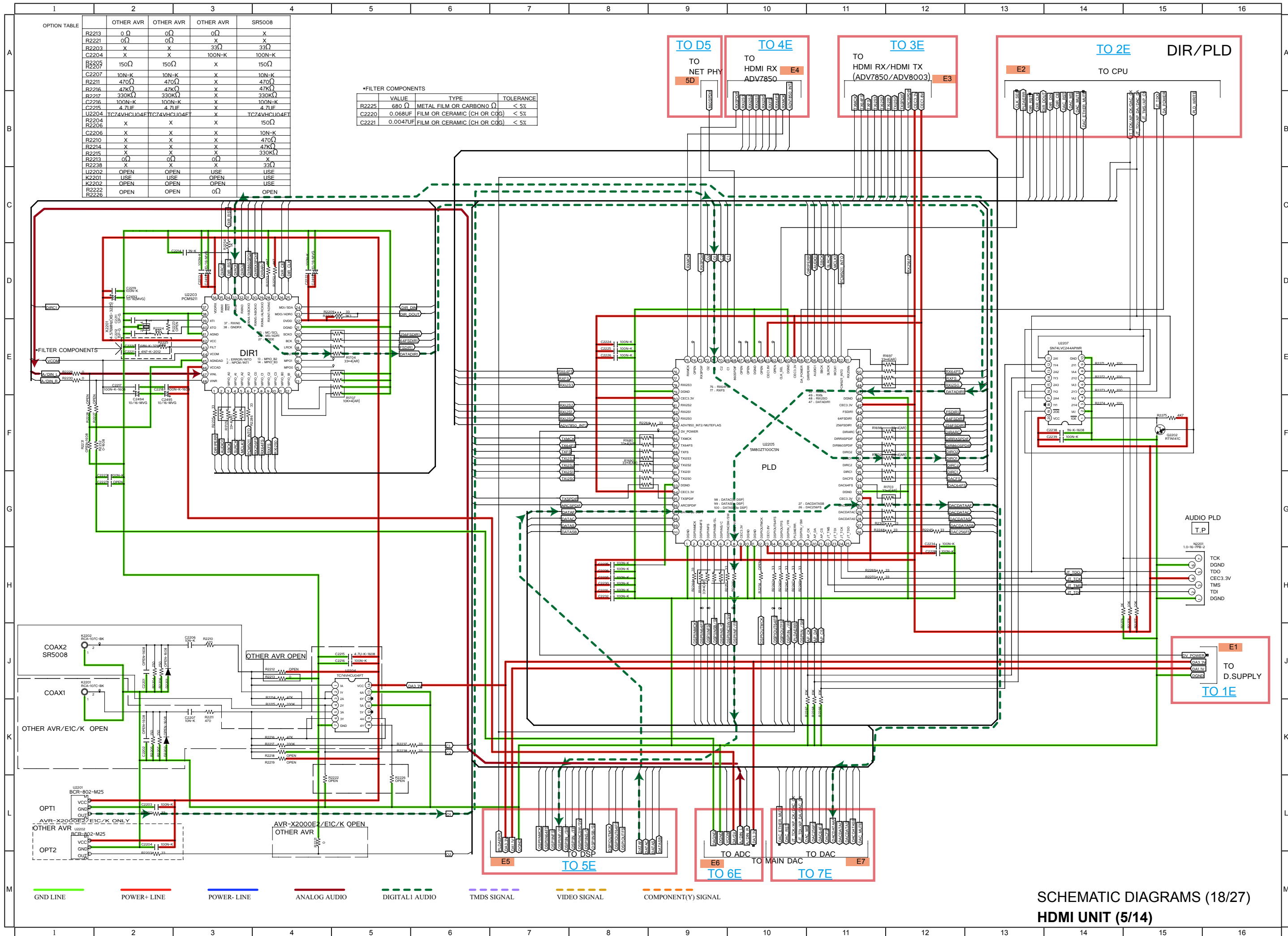
- GND LINE
- POWER+ LINE
- POWER- LINE
- ANALOG AUDIO
- DIGITAL AUDIO
- TMDs SIGNAL
- VIDEO SIGNAL
- COMPONENT(Y) SIGNAL



SCHEMATIC DIAGRAMS (16/27)  
HDMI UNIT (3/14)



SCHEMATIC DIAGRAMS (17/27)  
HDMI UNIT (4/14)



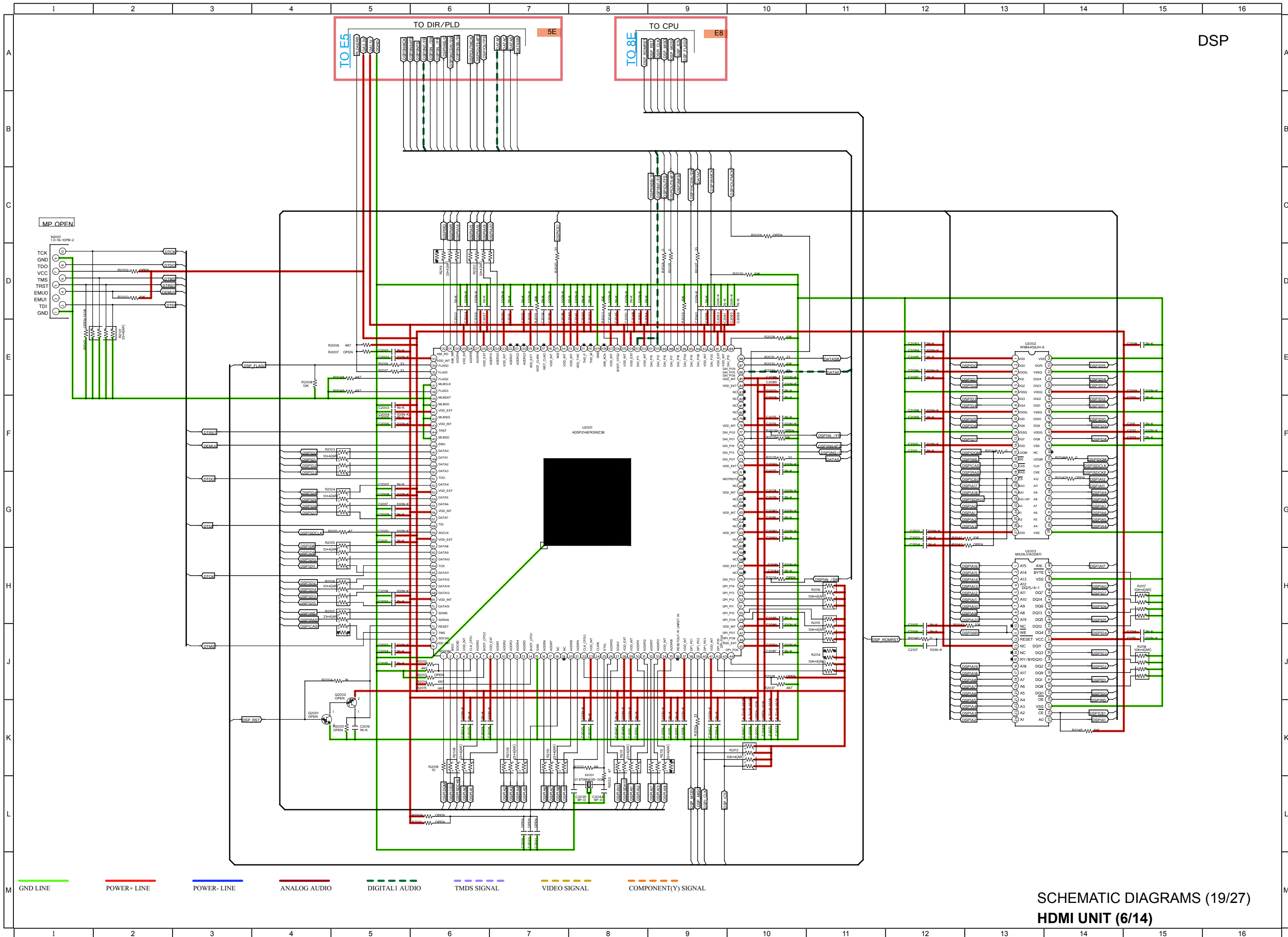
OPTION TABLE

	OTHER AVR	OTHER AVR	OTHER AVR	SR5008
R2213	0Ω	0Ω	0Ω	X
R2221	0Ω	0Ω	X	X
R2203	X	X	33Ω	33Ω
C2204	X	X	100N-K	100N-K
R2205	150Ω	150Ω	X	150Ω
R2207	X	X	X	X
C2207	10N-K	10N-K	X	10N-K
R2211	470Ω	470Ω	X	470Ω
R2216	47KΩ	47KΩ	X	47KΩ
R2217	330KΩ	330KΩ	X	330KΩ
C2216	100N-K	100N-K	X	100N-K
C2215	4.7UF	4.7UF	X	4.7UF
U2204	TC74VHC104FT	TC74VHC104FT	X	TC74VHC104FT
R2204	X	X	X	150Ω
R2206	X	X	X	10N-K
C2206	X	X	X	10N-K
R2210	X	X	X	470Ω
R2214	X	X	X	47KΩ
R2215	X	X	X	330KΩ
R2213	0Ω	0Ω	0Ω	X
R2238	X	X	X	33Ω
U2202	OPEN	OPEN	USE	USE
K2201	USE	USE	OPEN	USE
K2202	OPEN	OPEN	OPEN	USE
R2222	OPEN	OPEN	OPEN	USE
R2225	OPEN	OPEN	0Ω	OPEN

\*FILTER COMPONENTS

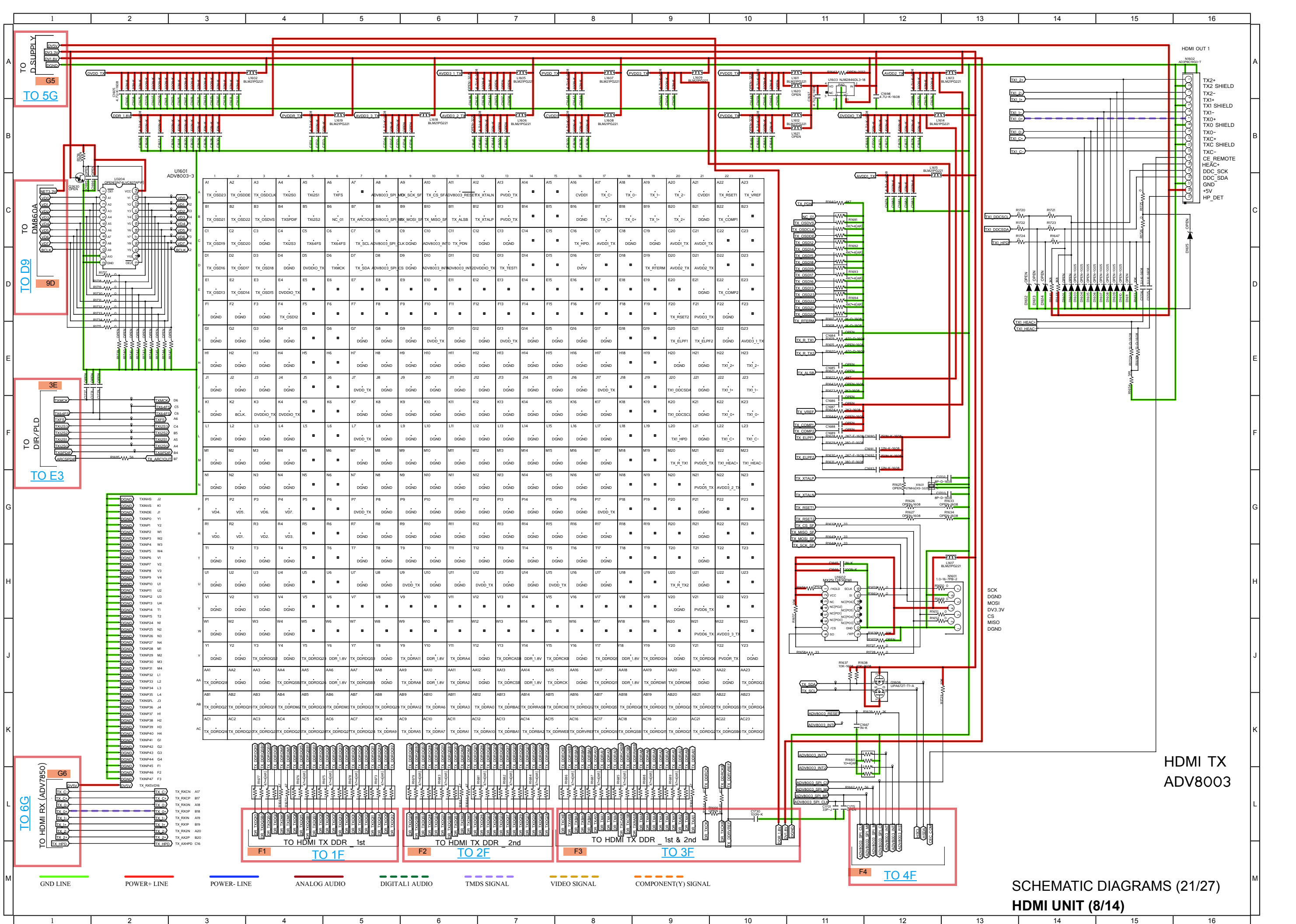
VALUE	TYPE	TOLERANCE
R2225 680Ω	METAL FILM OR CARBONO	< 5%
C2220 0.068UF	FILM OR CERAMIC (CH OR CG)	< 5%
C2221 0.0047UF	FILM OR CERAMIC (CH OR CG)	< 5%

SCHEMATIC DIAGRAMS (18/27)  
HDMI UNIT (5/14)

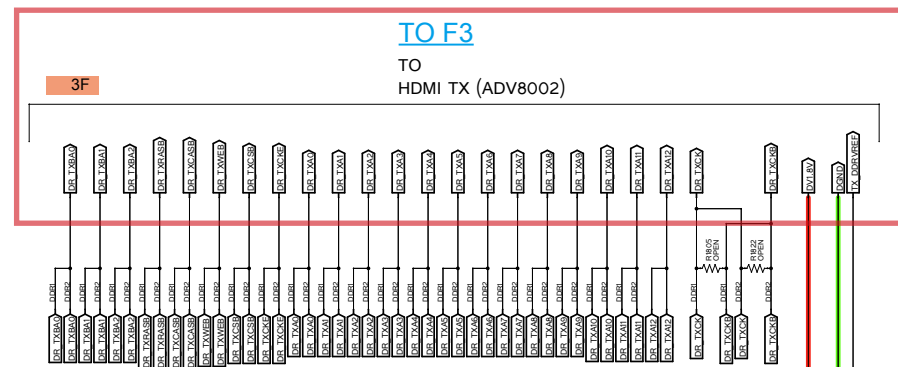
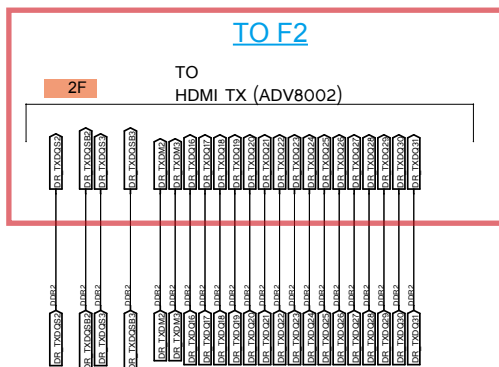
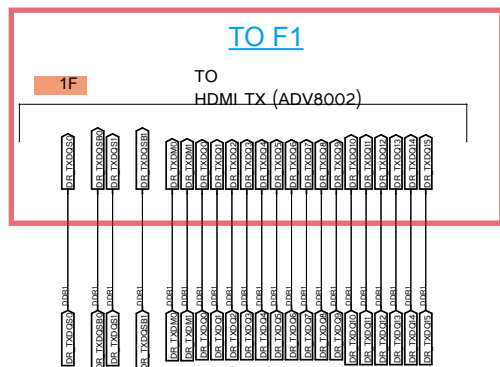


SCHEMATIC DIAGRAMS (19/27)  
HDMI UNIT (6/14)



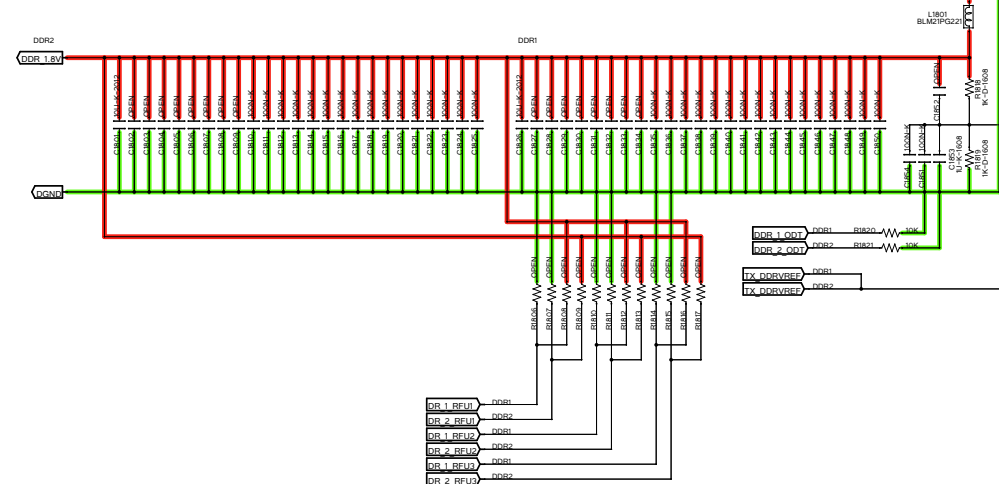


SCHEMATIC DIAGRAMS (21/27)  
HDMI UNIT (8/14)

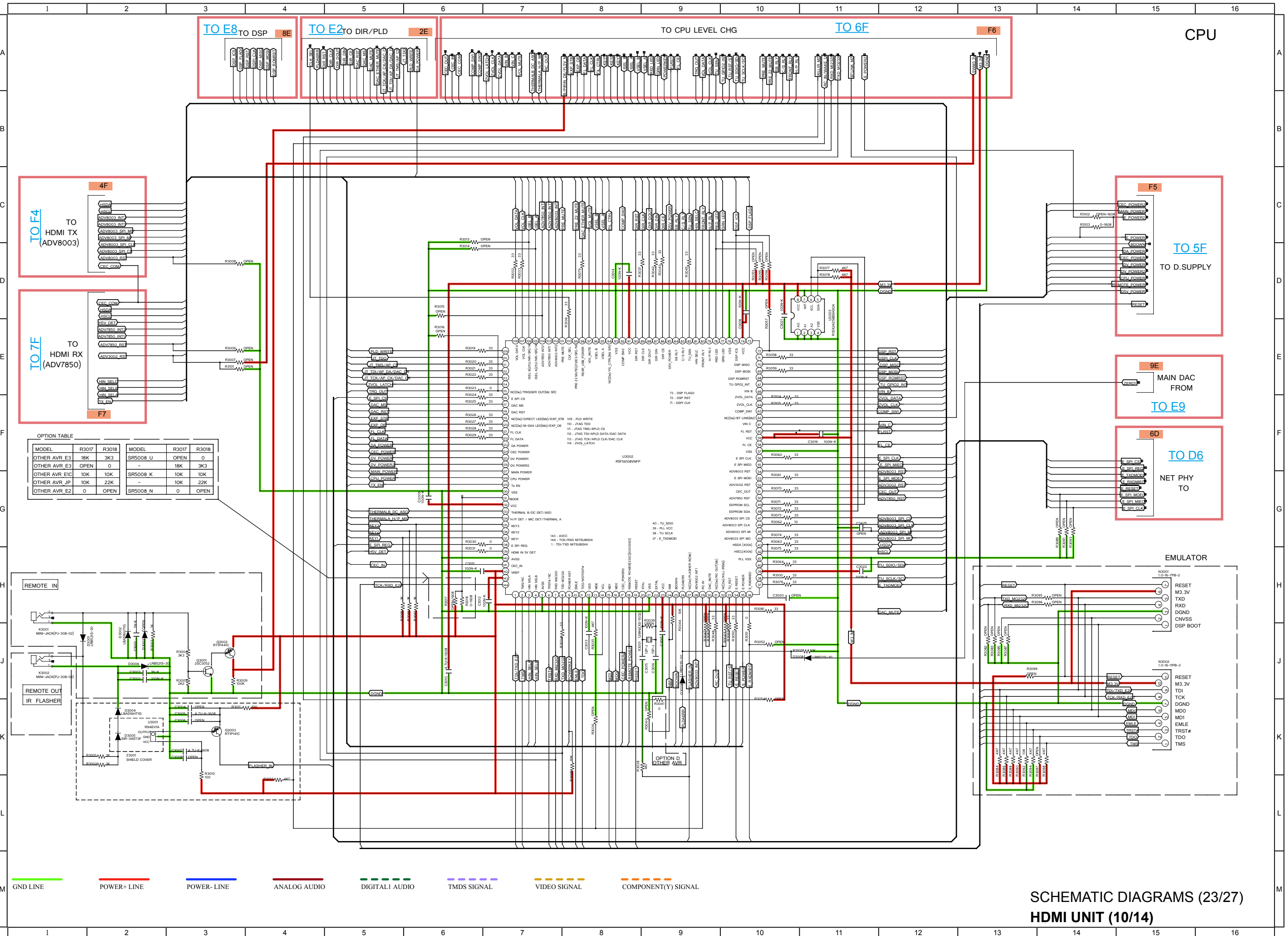


	1	2	3	U802	K475163QJ-BC57 (12M)	7	8	9
A1	DDR_1_8V		DGND			A7	A8	A9
B1	DR_TXDQ14	DGND	DR_TXDM1			DR_TXDQS1	DGND	DR_TXDQS8
C1	DDR_1_8V	DR_TXDQ9	DDR_1_8V			DR_TXDQ8		DDR_1_8V
D1	DR_TXDQ12	DGND	DR_TXDQ11			DR_TXDQ10	DGND	DR_TXDQ13
E1	DDR_1_8V		DGND			DGND	DR_TXDQS8	DDR_1_8V
F1	DR_TXDQ6	DGND	DR_TXDM0			DR_TXDQS6	DGND	DR_TXDQ7
G1	DDR_1_8V	DR_TXDQ1	DDR_1_8V			DR_TXDQ0		DDR_1_8V
H1	DR_TXDQ4	DGND	DR_TXDQ3			DR_TXDQ2	DGND	DR_TXDQ5
J1	DDR_1_8V	TX_DORVREF	DGND			DGND	DR_TXCK	DDR_1_8V
K1		DR_TXCKE	DR_TXWEB			DR_TXRASE	DR_TXCKB	DDR_1_ODT
L1	DR_TXBA2	DR_TXBA0	DR_TXBA1			DR_TXCABE	DR_TXCSB	
M1		DR_TXA10	DR_TXA1			DR_TXA2	DR_TXA0	DDR_1_8V
N1	DGND	DR_TXA3	DR_TXA5			DR_TXA6	DR_TXA4	
P1		DR_TXA7	DR_TXA9			DR_TXA11	DR_TXA8	DGND
R1	DDR_1_8V	DR_TXA12	DR_1_RFU1			DR_1_RFU2	DR_1_RFU3	

	1	2	3	U802	K475163QJ-BC57 (12M)	7	8	9
A1	DDR_1_8V		DGND			A7	A8	A9
B1	DR_TXDQ26	DGND	DR_TXDM3			DR_TXDQS2	DGND	DR_TXDQS1
C1	DDR_1_8V	DR_TXDQ25	DDR_1_8V			DR_TXDQ24		DDR_1_8V
D1	DR_TXDQ24	DGND	DR_TXDQ27			DR_TXDQ28	DGND	DR_TXDQ21
E1	DDR_1_8V		DGND			DGND	DR_TXDQS8	DDR_1_8V
F1	DR_TXDQ22	DGND	DR_TXDM2			DR_TXDQS2	DGND	DR_TXDQ23
G1	DDR_1_8V	DR_TXDQ17	DDR_1_8V			DR_TXDQ16		DDR_1_8V
H1	DR_TXDQ20	DGND	DR_TXDQ19			DR_TXDQ18	DGND	DR_TXDQ21
J1	DDR_1_8V	TX_DORVREF	DGND			DGND	DR_TXCK	DDR_1_8V
K1		DR_TXCKE	DR_TXWEB			DR_TXRASE	DR_TXCKB	DDR_1_ODT
L1	DR_TXBA2	DR_TXBA0	DR_TXBA1			DR_TXCABE	DR_TXCSB	
M1		DR_TXA10	DR_TXA1			DR_TXA2	DR_TXA0	DDR_1_8V
N1	DGND	DR_TXA3	DR_TXA5			DR_TXA6	DR_TXA4	
P1		DR_TXA7	DR_TXA9			DR_TXA11	DR_TXA8	DGND
R1	DDR_1_8V	DR_TXA12	DR_2_RFU1			DR_2_RFU2	DR_2_RFU3	



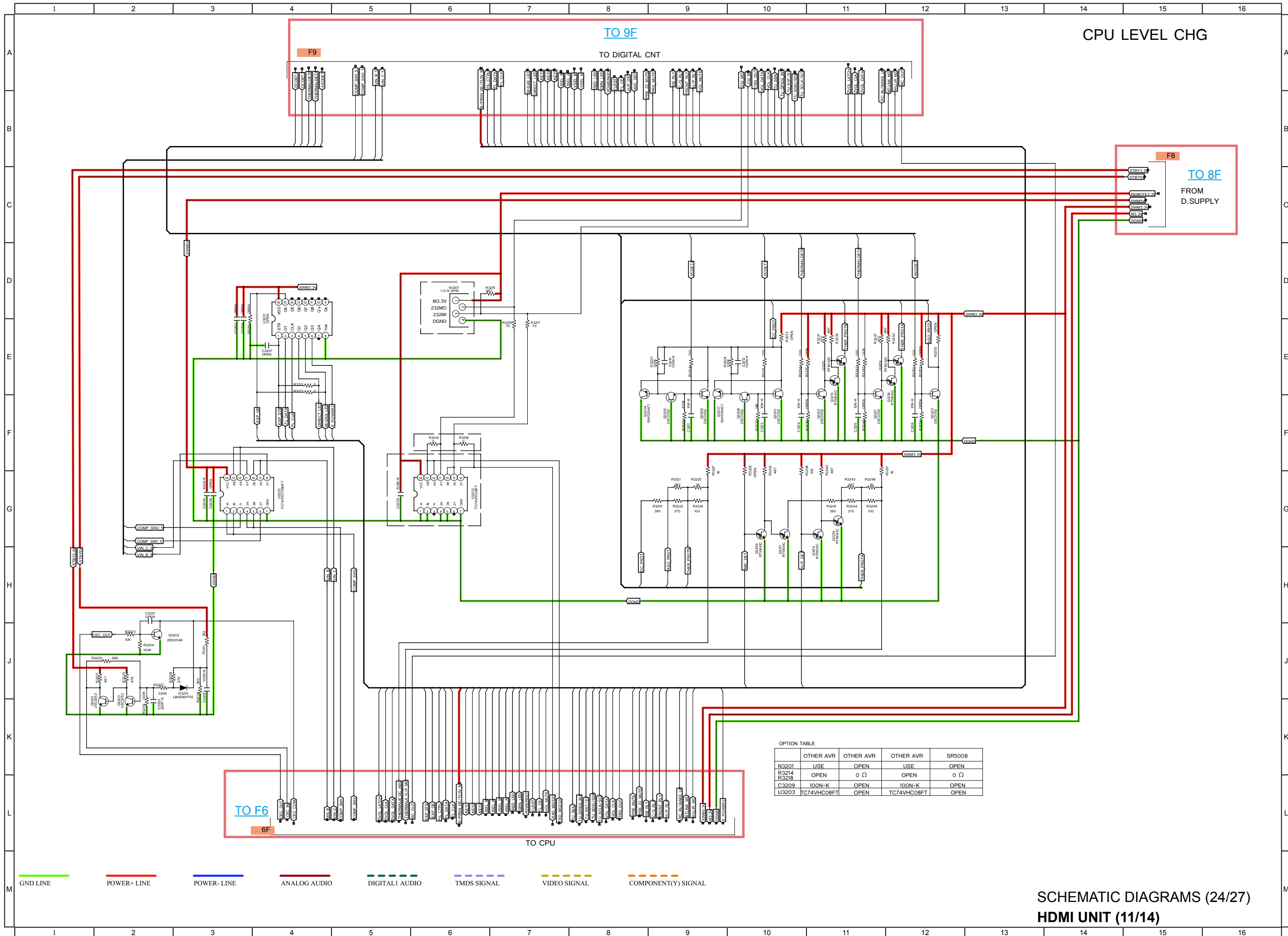
GND LINE    POWER+ LINE    POWER- LINE    ANALOG AUDIO    DIGITAL1 AUDIO    TMDS SIGNAL    VIDEO SIGNAL    COMPONENT(Y) SIGNAL



OPTION TABLE

MODEL	R3017	R3018	MODEL	R3017	R3018
OTHER AVR E3	18K	3K3	SRS008 U	OPEN	0
OTHER AVR E3	OPEN	0	-	18K	3K3
OTHER AVR E1C	10K	10K	SRS008 K	10K	10K
OTHER AVR JP	10K	22K	-	10K	22K
OTHER AVR E2	0	OPEN	SRS008 N	0	OPEN

SCHMATIC DIAGRAMS (23/27)  
HDMI UNIT (10/14)



TO 9F

CPU LEVEL CHG

F9 TO DIGITAL CNT

F8 TO 8F FROM D.SUPPLY

TO F6

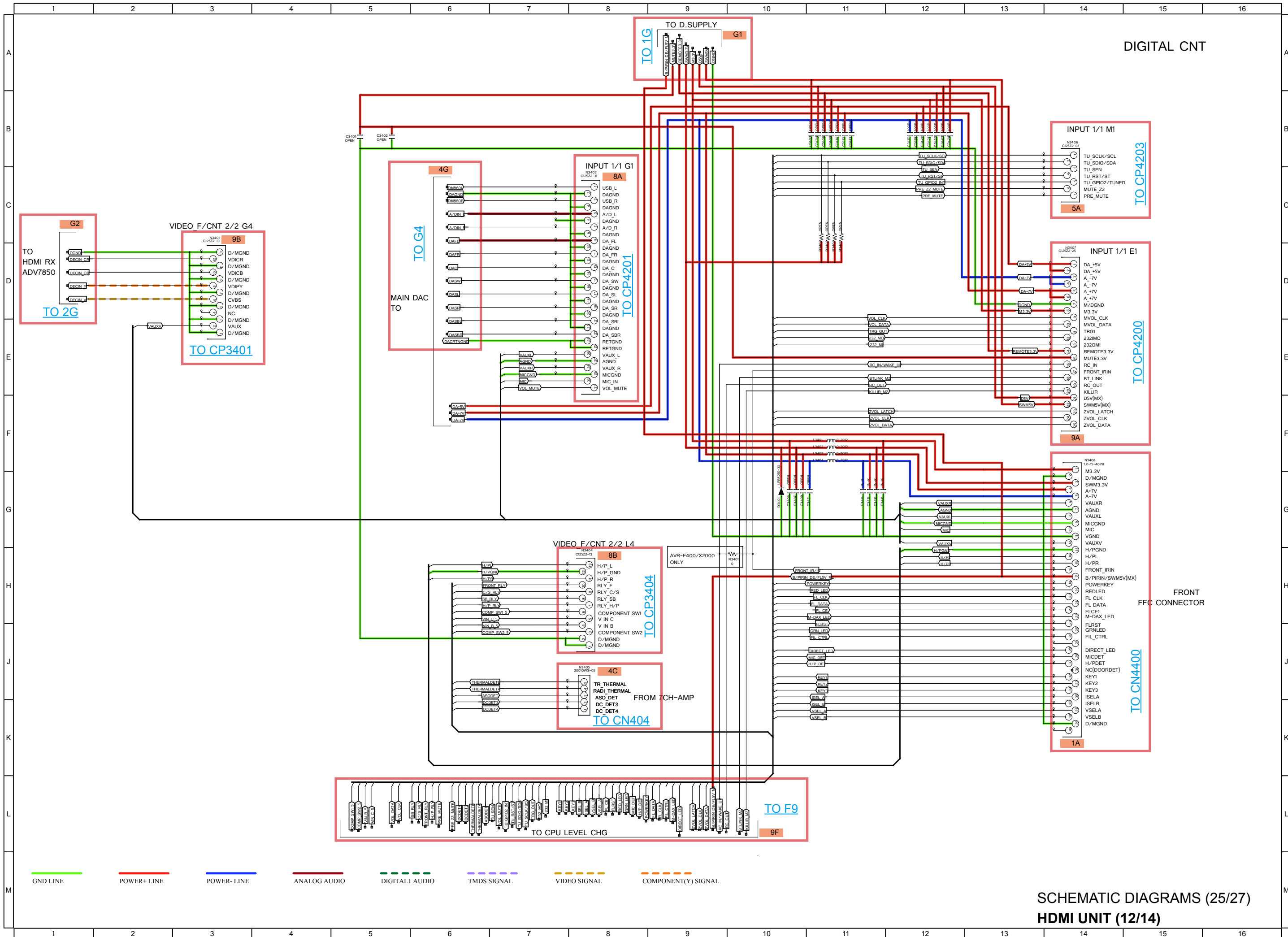
6F

TO CPU

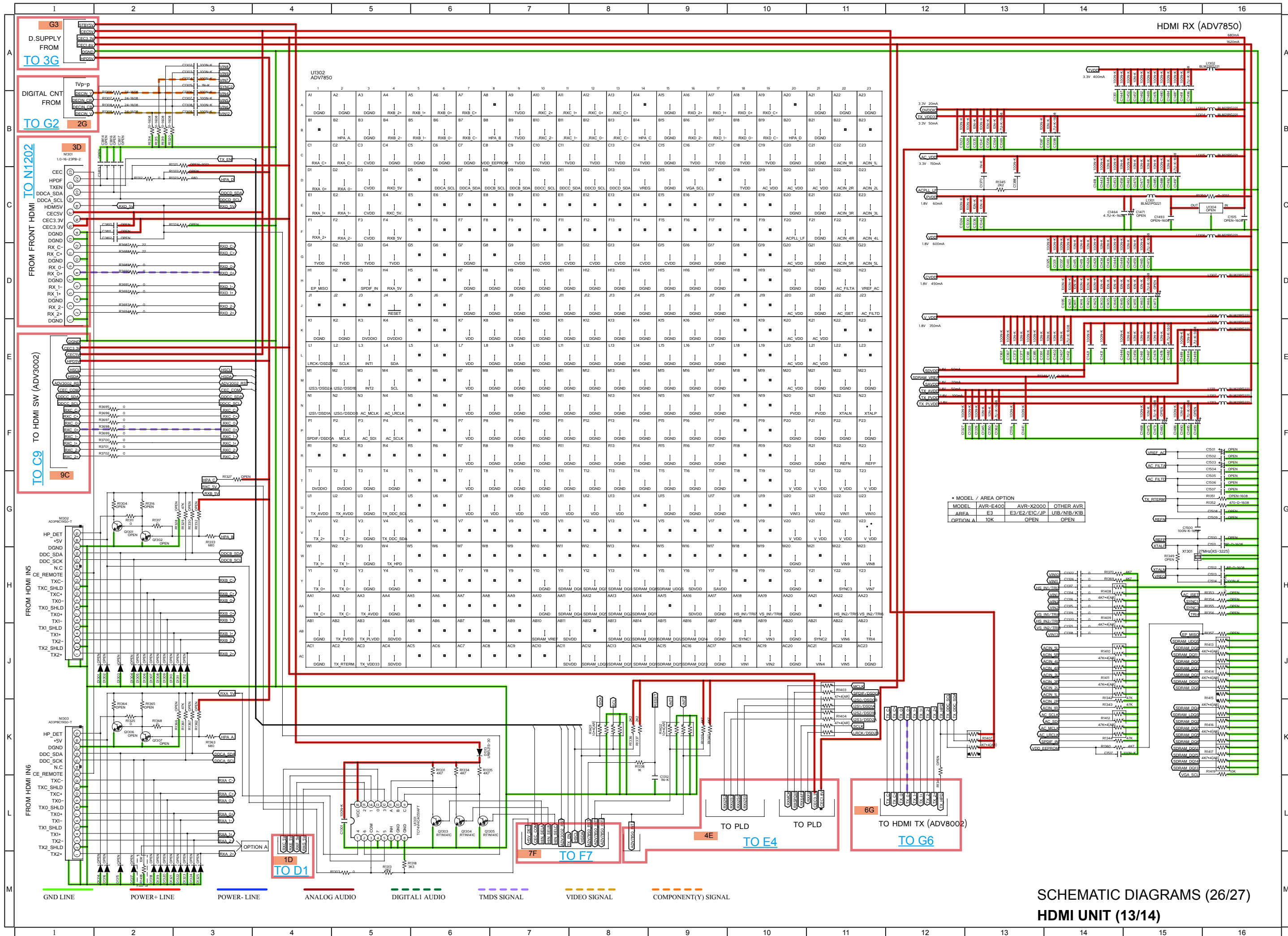
OPTION TABLE

	OTHER AVR	OTHER AVR	OTHER AVR	SR5008
N3201	USE	OPEN	USE	OPEN
R3214	OPEN	0 Ω	OPEN	0 Ω
C3209	100N-K	OPEN	100N-K	OPEN
U3203	TC74VHC08FT	OPEN	TC74VHC08FT	OPEN

GND LINE    POWER+ LINE    POWER- LINE    ANALOG AUDIO    DIGITAL1 AUDIO    TMDS SIGNAL    VIDEO SIGNAL    COMPONENT(Y) SIGNAL

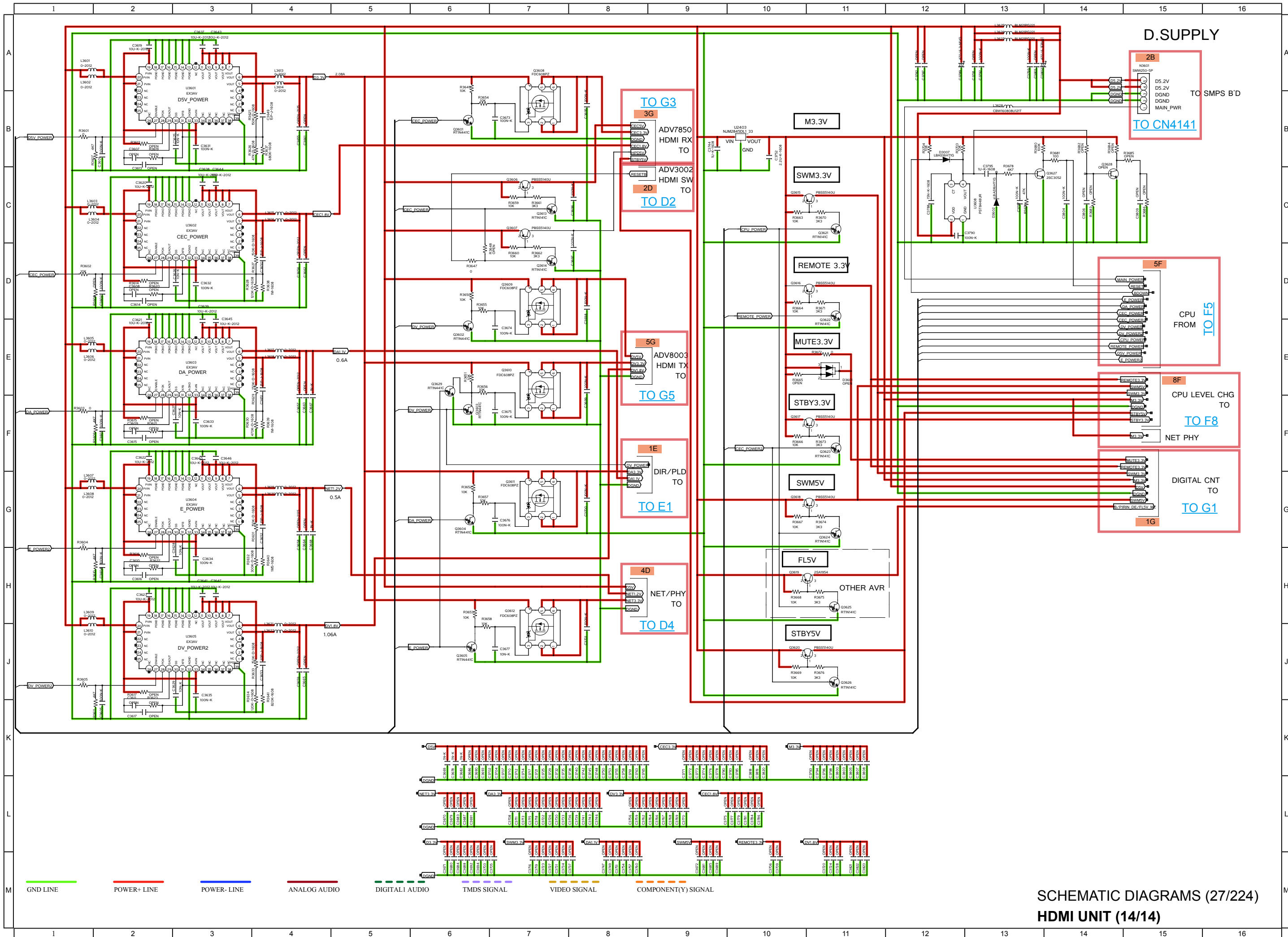


SCHEMATIC DIAGRAMS (25/27)  
HDMI UNIT (12/14)



MODEL	AVR-E400	AVR-X2000	OTHER AVR
AREA	E3	E3/E2/E1C/J/P	U1B/N1B/X1B
OPTION A	10K	OPEN	OPEN

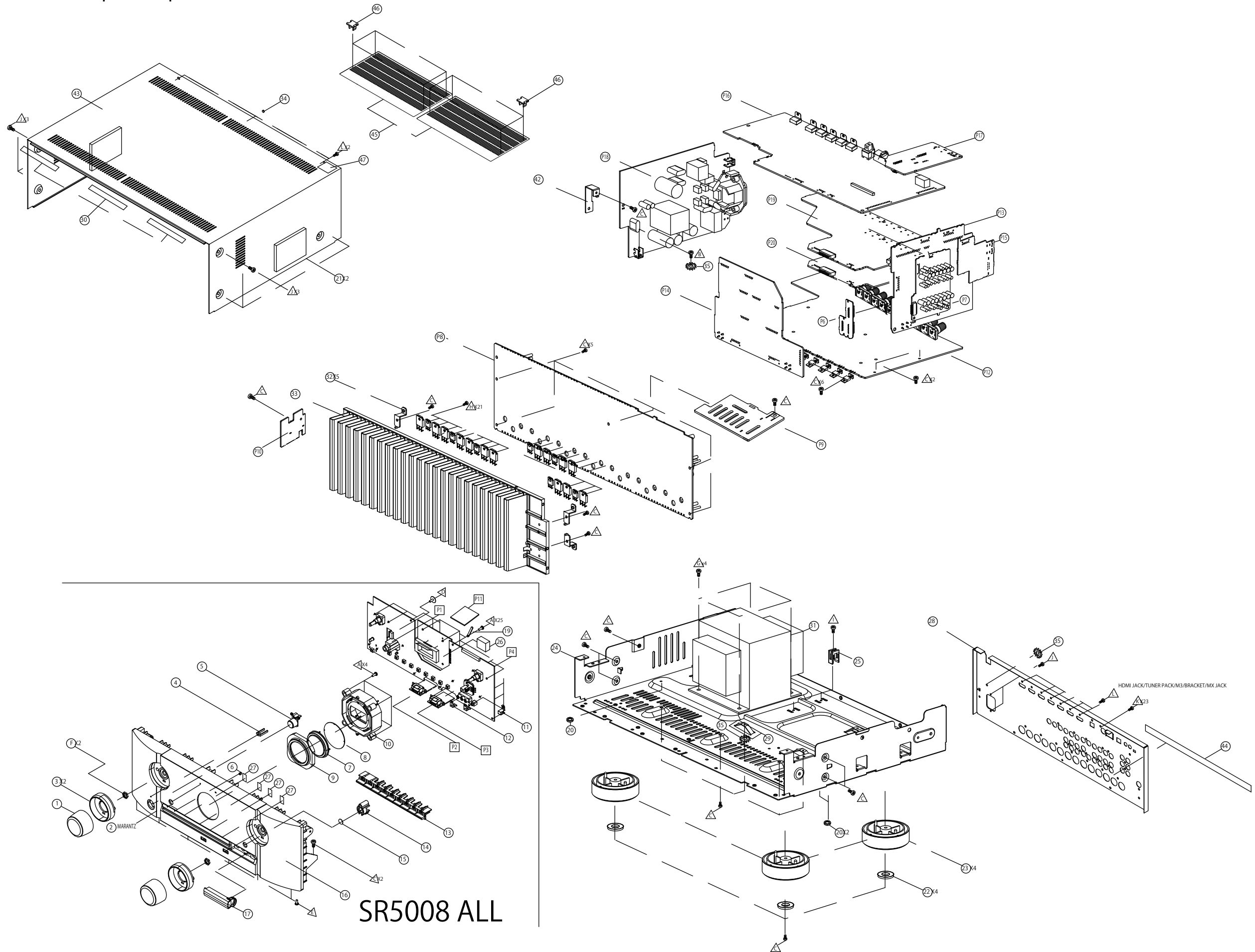
SCHEMATIC DIAGRAMS (26/27)  
HDMI UNIT (13/14)




SCHMATIC DIAGRAMS (27/224)  
HDMI UNIT (14/14)

# EXPLODED VIEW

Please refer to the last chapter for the part list.

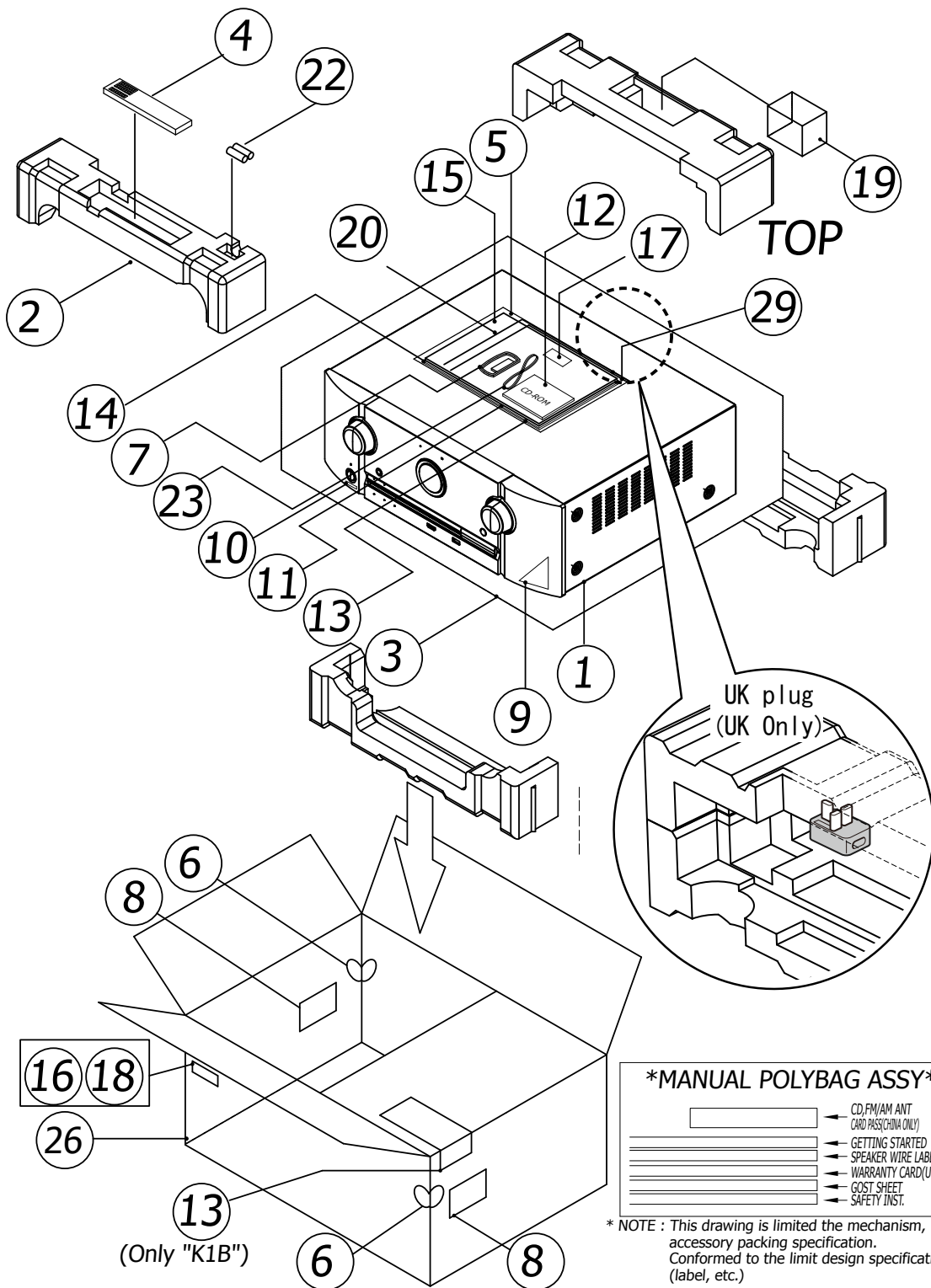


**WARNING:**  
Parts marked with this symbol  have critical characteristics.  
Use **ONLY** replacement parts recommended by the manufacturer.



# PACKING VIEW

Please refer to the last chapter for the part list.



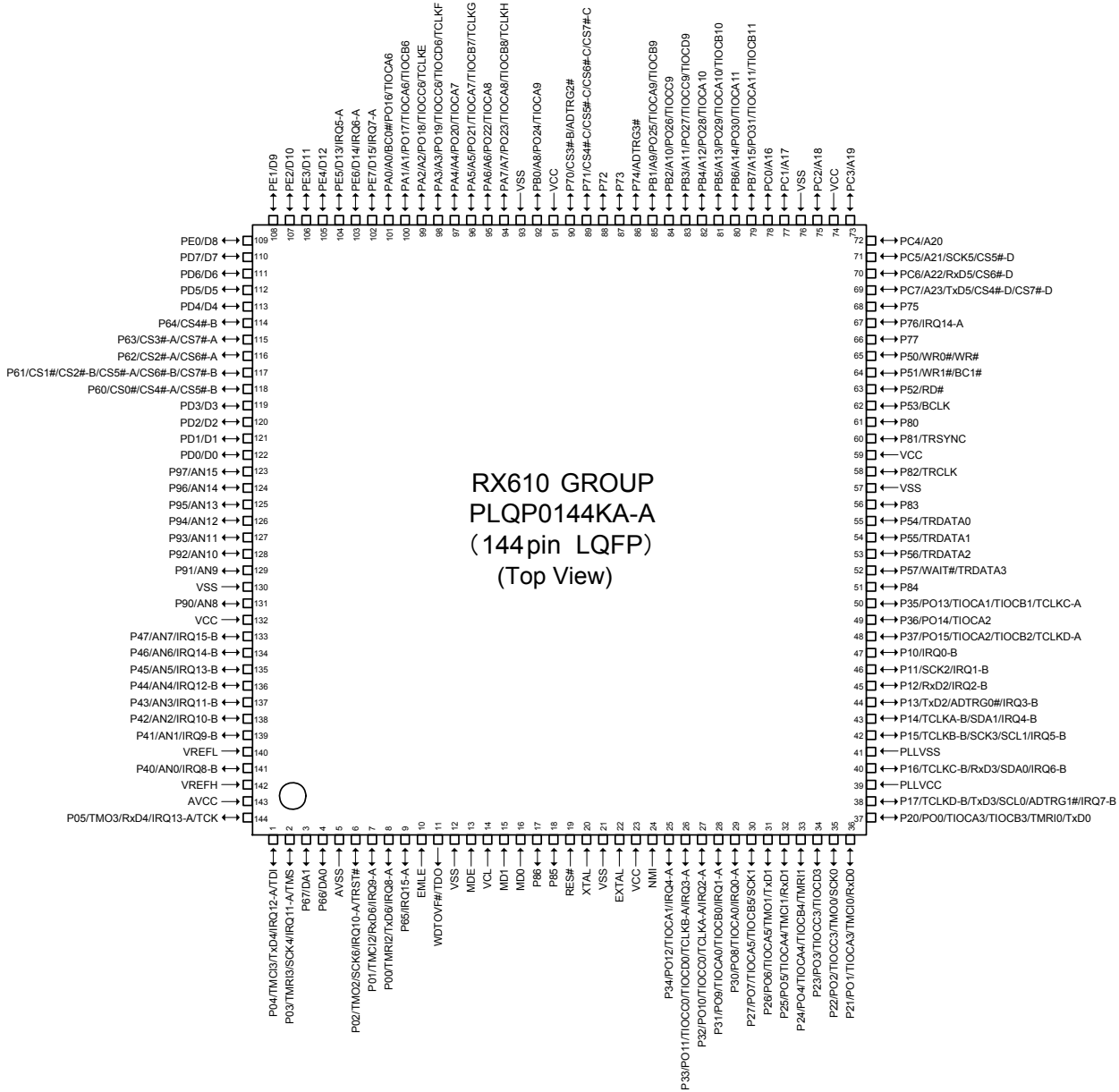
* POLY BAG PACKING STYLE	SPEAKER TERMINAL BUSHING	* BOX BOTTOM TAPING
<p>TAPE (CLEAR)</p> <p>27 CORD AC</p>	<p>25</p>	<p>21</p>

# SEMICONDUCTORS

Only major semiconductors are shown, general semiconductors etc. are omitted to list.  
The semiconductor which described a detailed drawing in a schematic diagram are omitted to list.

## 1. IC's

### R5F56108VNFP (RX610)



RX610 GROUP  
PLQP0144KA-A  
(144 pin LQFP)  
(Top View)

### R5F56108VNFP Terminal Functions

Pin	Pin Name	Symbol	I/O	Pu/Pd	LvCnv	STBY	STOP	CEC STBY	Function
1	P04/IRQ12-A/TMC13/TxD4/TDI	NC	I	M3VPu	-	I	I	I	NC
2	P03/IRQ11-A/TMR13/SCK4/TMS	NC	I	M3VPu	-	I	I	I	NC
3	P67/DA1	HIN SELA	O	-	-	L	L	-	TC74VHC4051AFT control pin. (Control the detection of HDMI 5V INPUT for CEC STANDBY.)
4	P66/DA0	HIN SELB	O	-	-	L	L	-	TC74VHC4051AFT control pin. (Control the detection of HDMI 5V INPUT for CEC STANDBY.)
5	AVSS	AVSS	-	-	-	-	-	-	GND
6	P02/IRQ10-A/TMO2/SCK6/TRST#	NC	I	Pd	-	I	I	I	NC

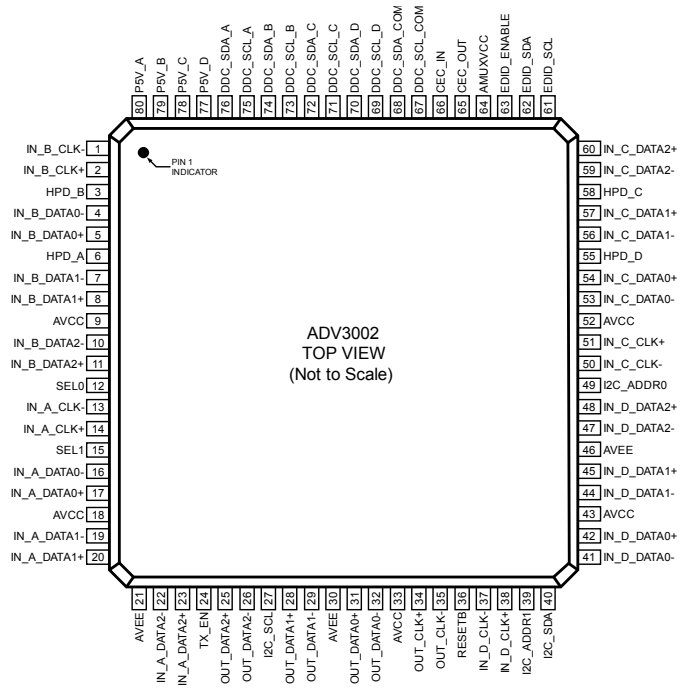
Pin	Pin Name	Symbol	I/O	Pu/Pd	LvCnv	STBY	STOP	CEC STBY	Function
7	P01/IRQ9-A/TMC12/RxD6	RXD MI232O	I	M3VPu	-	I	I	I	Data received from the external pin(AMX)/Use for firmware upgrading by DFW.
8	P00/IRQ8-A/TMR12/TxD6	TXD MO232I	O	-	-	L	L	L	Data transfer to external pin(AMX)/Use for firmware upgrading by DFW.
9	P65/IRQ15-A	POWER KEY	I	M3VPu	-	I	I	I	POWER KEY (Waiting Mode cancel, interrupt port)
10	EMLE	NC	I	Pd	-	-	-	-	NC
11	WDTOVF#/TDO	NC	O/O	-	-	-	-	-	NC
12	VSS	VSS	I	-	-	-	-	-	GND
13	MDE	MDE	I	Pd	-	-	-	-	NC
14	VCL	VCL	I	-	-	-	-	-	Smoothing capacitor connection pin
15	MD1	MD1	I	M3VPu	-	-	-	-	NC
16	MD0	MD0	I	M3VPu	-	-	-	-	NC
17	P86	CEC POWER2	O	-	-	-	-	-	CEC STANDBY POWER SUPPLY control pin (CEC STANDBY MODE=3)
18	P85	REMOTE POWER(232C) (SR5008)	O/O	-	-	-	-	-	232C POWER SUPPLY (REMOTE 3.3V) control pin.(ON: H)
19	RES#	RESET	I	-	-	-	-	-	Reset input (reset: L)
20	XTAL	XTAL	I	-	-	-	-	-	Clock input
21	VSS	VSS	-	-	-	-	-	-	GND
22	EXTAL	EXTAL	-	-	-	-	-	-	Clock output
23	VCC	VCC	-	-	-	-	-	-	+3.3V
24	NMI	NMI	I	M3VPu	-	-	-	-	NC
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	DAC.PLD ERR	I	-	-	L	L	L	DAC.PLD ERROR detection pin
27	P32/IRQ2-A/PO10/TIOCC0/TCLKA-A	FLASHER IN(NR1604:NA only,SR5008:ALL)	O/I	-	-	-	-	-	FLASHER (RC-5) input pin (NR1604 : U Version Only , SR5008 : All Version)
28	P31/IRQ1-A/PO9/TIOCA0/TIOCB0	ADV8003 INT1	I	-	-	I	I	I	HDMI transmitter / OSD ADV8003 INT1 output pin
29	P30/IRQ0-A/PO8/TIOCA0	RC IN	I	-	-	I	I	I	Remote control signal input pin
30	P27/PO7/TIOCA5/TIOCB5/SCK1	DAC MUTE	O	-	-	L	L	L	DAC MUTE control pin (PCM1690)
31	P26/PO6/TIOCA5/TMO1/TxD1	RC OUT	O/O	-	-	H	L	H	RC-5 CODE output pin
32	P25/PO5/TIOCA4/TMC11/RxD1	KILL IR	O/O	-	-	L	L	L	Front IR Disable control pin
33	P24/PO4/TIOCA4/TIOCB4/TMR11	TU RST	O	SW3VPu	-	L	L	L	TUNER RESET pin
34	P23/PO3/TIOCC3/TIOCD3	E RESET	O	N3VPu	-	L	L	L	ETHERNET RESET control pin (DM860)
35	P22/PO2/TIOCC3/TMO0/SCK0	E POWER	O	-	-	L	L	L	ETHERNET POWER SUPPLY (NET3.3V) control pin.(ON:H)
36	P21/PO1/TIOCA3/TMC10/RxD0	E_RXDMIEO	I	N3VPu	-	I	I	I	ETHERNET communication control pin (DM860)
37	P20/PO0/TIOCA3/TIOCB3/TMR10/TxD0	E_TXDMOEI	O	N3VPu	-	L	L	L	ETHERNET communication control pin (DM860)
38	P17/IRQ7-B/TCLKD-B/TxD3/SCL0/ADTRG1#	TU SCLK	O	-	-	L	L	L	TUNER control pin
39	PLLVC	PLLVC	-	-	-	-	-	-	+3.3V
40	P16/IRQ6-B/TCLKC-B/RxD3/SDA0	TU SDIO	I_O	-	-	L	L	L	TUNER control pin
41	PLLVS	PLLVS	-	-	-	-	-	-	GND
42	P15/IRQ5-B/TCLKB-B/SCK3/SCL1	HSCL (400k)	O	CEC3VPu	-	L	L	L	VIDEO I2C Control for - HDMI SW (ADV3002) / HDMI RX , A to H Decoder (ADV7850) / HDMI ip Scaler , TX (ADV8003)
43	P14/IRQ4-B/TCLKA-B/SDA1	HSDA (400k)	I_O	CEC3VPu	-	L	L	L	VIDEO I2C Control for - HDMI SW (ADV3002) / HDMI RX , A to H Decoder (ADV7850) / HDMI ip Scaler , TX (ADV8003)

Pin	Pin Name	Symbol	I/O	Pu/Pd	LvCnv	STBY	STOP	CEC STBY	Function
44	P13/IRQ3-B/TxD2/ADTRG0#	ADV8003 SPI MO	O	-	-	L	L	L	OSD control pin
45	P12/IRQ2-B/RxD2	ADV8003 SPI MI	I	-	-	L	L	L	OSD control pin
46	P11/IRQ1-B/SCK2	ADV8003 SPI CLK	O	-	-	L	L	L	OSD control pin
47	P10/IRQ0-B	ADV8003 SPI CS	O	-	-	L	L	L	OSD control pin
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	ADV7850 RST	O	-	-	L	L	L	HDMI RX , A to H Decoder (ADV7850) RESET control pin
51	P84	CEC_OUT	O	-	-	L	L	-	CEC-D signal output pin
52	P57/WAIT#/TRDATA3	ADV3002 RST	O	SW3VPu	-	L	L	L	HDMI switcher RESET control pin (ADV3002)
53	P56/TRDATA2	E SPI MOEI	O	N3VPu	-	L	L	L	ETHERNET communication control pin (DM860)
54	P55/TRDATA1	ADV8003 RST	O	SW3VPu	-	L	L	L	HDMI Tx/Ip Scaler/OSD RESET control pin (ADV8003)
55	P54/TRDATA0	E SPI MIEO	I	N3VPu	-	I	L	I	ETHERNET communication control pin (DM860)
56	P83	E SPI CLK	O	N3VPu	-	L	L	L	ETHERNET communication control pin (DM860)
57	VSS	VSS	-	-	-	-	-	-	GND
58	P82/TRCLK	FL CE	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	VIN C	O	-	3->5	L	L	L	A-VIDEO (CVBS) switcher control pin (MM74HC4051MX)
62	BCLK/P53	BT LINK	I	-	-	I	I	I	Bluetooth (M-Xport) detection pin
63	P52/RD#	COMP SW1	O	-	3->5	L	L	L	A-VIDEO (COMPONENT) switcher control pin (NJM2586)
64	P51/WR1#/BC1#	ZVOL CLK	O	-	-	L	L	L	ZONE VOLUME control pin
65	P50/WR0#/WR#	ZVOL DATA	O	-	-	L	L	L	ZONE VOLUME control pin
66	P77	VIN B	O	-	3->5	L	L	L	A-VIDEO (CVBS) switcher control pin (MM74HC4051MX)
67	P76/IRQ14-A	TU GPO2_INT	I	-	-	L	L	L	TUNER GPIO2 input pin
68	P75	DSP ROMRST	O	-	-	I	I	I	Memory reset for DSP (Reset : L)
69	PC7/A23/CS4#-D/CS7#-D/TxD5	DSP MOSI	O	DA3VPu	-	L	L	L	DSP control pin (ADSP21487KSWZ-3B)
70	PC6/A22/CS6#-D/RxD5	DSP MISO	I	DA3VPu	-	L	L	L	DSP control pin (ADSP21487KSWZ-3B)
71	PC5/A21/CS5#-D/SCK5	DSPI CLK	O	DA3VPu	-	L	L	L	DSP control pin (ADSP21487KSWZ-3B)
72	PC4/A20	DSP RST	O	-	-	L	L	L	DSP(ADSP21487KSWZ-3B) reset output pin (Reset : L)
73	PC3/A19	DSP FLAG0	I	Pd	-	L	L	L	DSP control pin (ADSP21487KSWZ-3B)
74	VCC	VCC	-	-	-	-	-	-	+3.3V
75	PC2/A18	DSP ICS	O	DA3VPu	-	L	L	L	DSP control pin (ADSP21487KSWZ-3B)
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	H/P RL	O	-	-	L	L	L	HEADPHONE RLY control pin
80	PB6/A14/PO30/TIOCA11	FRONT RL	O	-	-	L	L	L	SPEAKER RELAY control pin
81	PB5/A13/PO29/TIOCA10/TIOCB10	HIN SELC	O	-	-	L	L	-	TC74VHC4051AFT control pin. (Control the detection of HDMI 5V INPUT for CEC STANDBY.)
82	PB4/A12/PO28/TIOCA10	TU_SEN	O	-	-	L	L	L	TUNER control pin
83	PB3/A11/PO27/TIOCC9/TIOCD9	C/S RL	O	-	-	L	L	L	CENTER/SURROUND Ch RELAY control pin
84	PB2/A10/PO26/TIOCC9	SB RL	O	-	-	L	L	L	SURROUND-BACK Ch RELAY control pin
85	PB1/A9/PO25/TIOCA9/TIOCB9	D5V POWER	O	-	-	L	L	H	DIGITAL POWER SUPPLY (D5V) control pin (ON:H)
86	P74/ADTRG3#	DIR CE	O	-	-	L	L	L	DIR control pin (PCM9211)
87	P73	DIR DIN	O	-	-	L	L	L	DIR control pin (PCM9211)

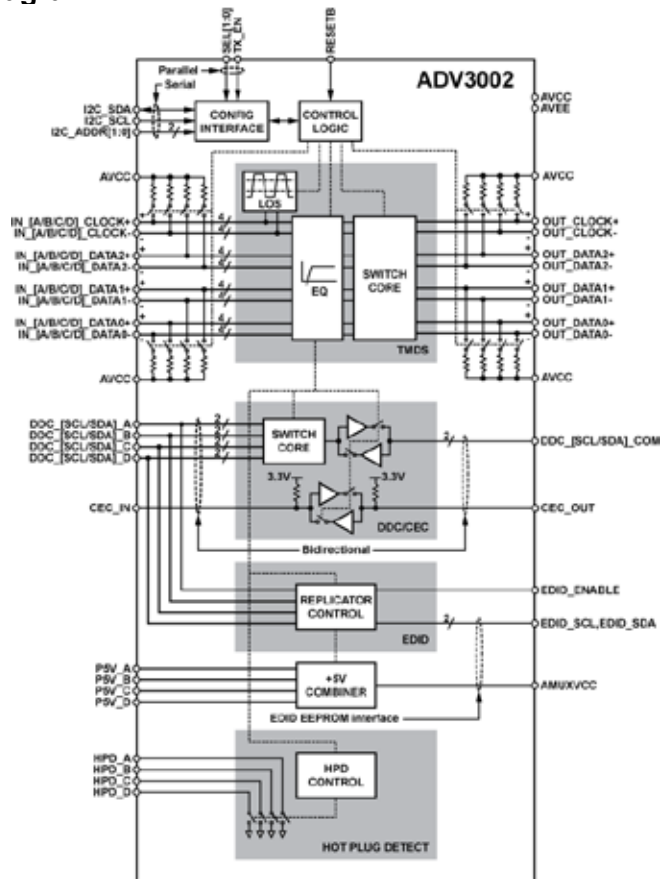
Pin	Pin Name	Symbol	I/O	Pu/Pd	LvCnv	STBY	STOP	CEC STBY	Function
88	P72	DIR DOUT	I	DA3VPu	-	I	I	I	DIR control pin (PCM9211)
89	P71/CS4#-C/ CS5#-C/CS6#-C/ CS7#-C	DIR CLK	O	-	-	L	L	L	DIR control pin (PCM9211)
90	P70/CS3#-B/ ADTRG2#	DIR RST	O	-	-	L	L	L	DIR RESET pin (PCM9211)
91	VCC	VCC	-	-	-	-	-	-	+3.3V
92	PB0/A8/PO24/ TIOCA9	COMP SW2	O	-	3->5	L	L	L	A-VIDEO (COMPONENT) switcher control pin (NJM2586)
93	VSS	VSS	-	-	-	-	-	-	GND
94	PA7/A7/PO23/ TIOCA8/TIOCB8/ TCLKH	NC(NR1604)/FIL_ CTRL(SR5008)	O/O	-	-	L	L	L	FLD Filament voltage on/off pin (SR5008 only)
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	NC(NR1604)/VOL MUTE(SR5008)	O	-	-	L	L	L	VOL MUTE control pin
98	PA3/A3/PO19/ TIOCC6/TIOCD6/ TCLKF	DAC(ETHER) MUTE	O	-	-	L	L	L	DAC (ETHER) MUTE control pin (PCM5100 for DM860)
99	PA2/A2/PO18/ TIOCC6/TCLKE	PRE Z2 MUTE	O	-	-	L	L	L	Z2 PRE OUT MUTE control pin (SR5008 Only)
100	PA1/A1/PO17/ TIOCA6/TIOCB6	CLK MUTE	O	-	-	L	L	L	A.PLD MUTE control pin MUTE Active="H"
101	PA0/A0/BC0#/PO16/ TIOCA6	PRE MUTE	O	-	-	L	L	L	PRE OUT MUTE control pin
102	PE7/IRQ7-A/D15	ADV8003 INT2	I	-	-	I	I	I	HDMI TX INT2 input pin (ADV8003)
103	PE6/IRQ6-A/D14	ADV7850 INT1	I	-	-	I	I	I	HDMI RX INT1 input pin (ADV7850)
104	PE5/IRQ5-A/D13	ADV7850 INT2	I	-	-	L	L	L	HDMI RX INT2 input pin (ADV7850)
105	PE4/D12	ISEL A	I/O	-	-	I/L	I/L	I/L	Input Selector rotation detection pin(Rotary encoder)
106	PE3/D11	ISEL B	I/O	-	-	I/L	I/L	I/L	Input Selector rotation detection pin(Rotary encoder)
107	PE2/D10	VOL CLK	O	-	-	L	L	L	FUNCTION / VOLUME control pin (R2A15218)
108	PE1/D9	VOL DATA	O	-	-	L	L	L	FUNCTION / VOLUME control pin (R2A15218)
109	PE0/D8	PLD WRITE	O	-	-	L	L	L	A.PLD /JTAG switching control pin
110	PD7/D7	JTAG TDO	I	-	-	L	L	L	A.PLD rewriting control pin (JTAG)
111	PD6/D6	JTAG TMS/APLD CS	O/O	-	-	L	L	L	A.PLD rewriting & control pin
112	PD5/D5	JTAG TDI/APLD DATA/DAC DATA	O/O	-	-	L	L	L	A.PLD rewriting & control /DAC control pin
113	PD4/D4	JTAG TCK/APLD CLK/DAC CLK	O/O	-	-	L	L	L	A.PLD rewriting & control /DAC control pin
114	P64/CS4#-B	ZVOL LATCH	O	-	-	L	L	L	ZONE VOLUME control pin
115	P63/CS3#-A/CS7#-A	TRIGGER OUT	O	-	-	L	L	L	DC OUTPUT (12Vdc OUT/Rear Panel) control pin
116	P62/CS2#-A/CS6#-A	E SPI CS	O	N3VPu	-	L	L	L	ETHERNET communication control pin(DM860)
117	P61/CS1#/CS2#-B/ CS5#-A/CS6#-B/ CS7#-B	DAC MS	O	-	-	L	L	L	D/A converter control pin(PCM1690)
118	P60/CS0#/CS4#-A/ CS5#-B	DAC RST	O	-	-	L	L	L	D/A converter control pin(PCM1690)
119	PD3/D3	DIRECT LED	O	-	-	L	L	L	DIRECT LED Control pin
120	PD2/D2	M-DAX LED	O	-	-	L	L	L	M-DAX LED Control pin
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	DA POWER	O	-	-	L	L	L	DIGITAL AUDIO POWER SUPPLY (DA3.3V & DA1.2V) control pin.(ON:H)
124	P96/AN14	CEC POWER	O	-	-	L	L	*	HDMI CEC POWER SUPPLY (CEC5V & CEC3.3V & CEC1.8V) control pin.(ON:H)*CEC DBY:MODE1=H,MODE2=H,MODE3=L

Pin	Pin Name	Symbol	I/O	Pu/Pd	LvCnv	STBY	STOP	CEC STBY	Function
125	P95/AN13	DV POWER1	O	-	-	L	L	※	Digital VIDEO POWER SUPPLY (DV5V & DV3.3V) control pin. *CEC STANDBY : MODE1=H , MODE2=L , MODE3=L
126	P94/AN12	DV POWER2	O	-	-	L	L	※	Digital VIDEO POWER SUPPLY (DV1.8V) control pin. *CEC STANDBY : MODE1=H , MODE2=L , MODE3=L
127	P93/AN11	MAIN POWER	O	-	-	L	L	L	MAIN POWER control pin
128	P92/AN10	CPU POWER	O	-	-	L	L	L	CPU INTERFACE POWER SUPPLY (SWM3.3V & SWM5V) control pin (POWER ON: H , CEC ON STANDBY: H)
129	P91/AN9	Tx EN	O	-	-	L	L	L	Front HDMI INPUT (AD8195) control 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	THERMAL B/DC DET/ASO	I	-	-	I	I	I	ASO PROTECT / DC PROTECT / HEAT PROTECT-B detection pin
134	P46/IRQ14-B/AN6	H/P DET / MIC DET/THERMAL A	I	-	-	I	I	I	MIC detection / Headphone detection / HEAT PROTECT-A detection pin
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(DM860)
139	P41/IRQ9-B/AN1	H5V DET	I	-	-	I	I	I	HDMI INPUT 5V (for EDID / HOT PLUG) detection pin
140	AVSS	AVSS	-	-	-	-	-	-	GND
141	P40/IRQ8-B/AN0	CEC_IN	I	SW3VPu	-	I	I	I	CEC-D signal input pin
142	VREF	VREF	-	-	-	-	-	-	Reference voltage (+3.3V) input pin for A/D port
143	AVCC	AVCC	-	-	-	-	-	-	+3.3V
144	P05/IRQ13-A/TMO3/RxD4/TCK	NC	I	M3VPu	-	I	I	I	NC

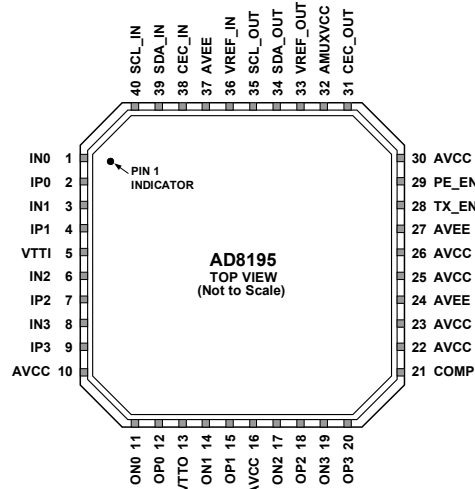
# ADV3002BSTZ (HDMI : U1001)



# ADV3002BSTZ Block diagram



# AD8195ACPZ (HDMI : U1201)



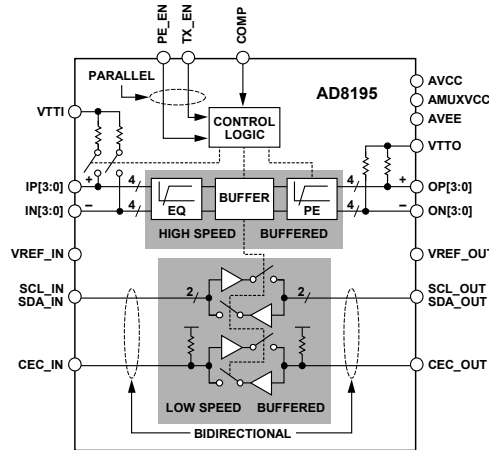
**NOTES**  
 1. THE AD8195 LFCSP HAS AN EXPOSED PAD ON THE UNDERSIDE OF THE PACKAGE THAT AIDS IN HEAT DISSIPATION. THE PAD MUST BE ELECTRICALLY CONNECTED TO THE AVEE SUPPLY PLANE IN ORDER TO MEET THERMAL SPECIFICATIONS.

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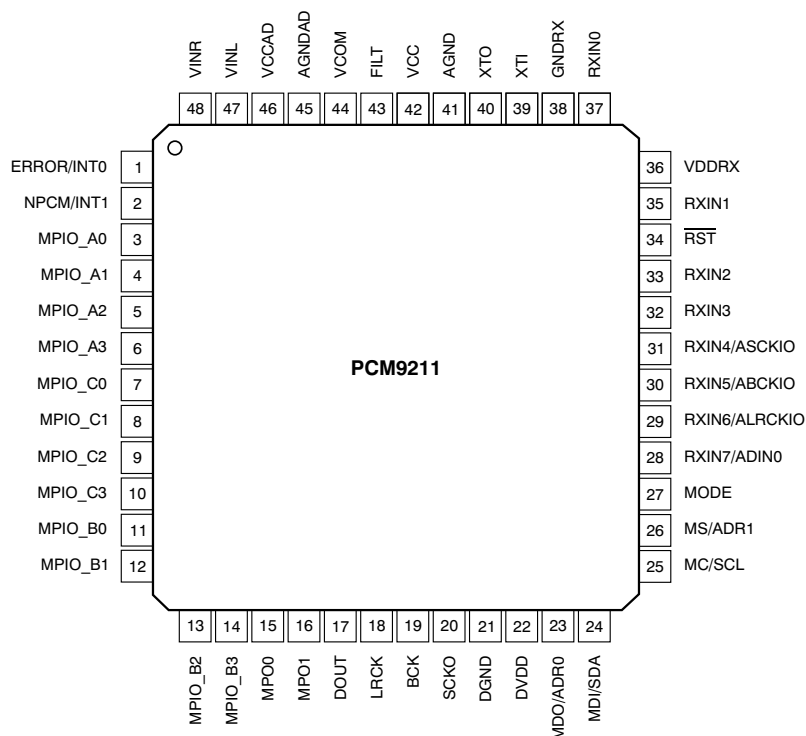
## AD8195ACPZ Termini Function

Pin No.	Mnemonic	Type <sup>1</sup>	Description
1	IN0	HS I	High Speed Input Complement.
2	IP0	HS I	High Speed Input.
3	IN1	HS I	High Speed Input Complement.
4	IP1	HS I	High Speed Input.
5	VTTI	Power	Input Termination Supply. Nominally connected to AVCC.
6	IN2	HS I	High Speed Input Complement.
7	IP2	HS I	High Speed Input.
8	IN3	HS I	High Speed Input Complement.
9	IP3	HS I	High Speed Input.
10, 16, 22, 23, 25, 26, 30	AVCC	Power	Positive Analog Supply. 3.3 V nominal.
11	ON0	HS O	High Speed Output Complement.
12	OP0	HS O	High Speed Output.
13	VTTO	Power	Output Termination Supply. Nominally connected to AVCC.
14	ON1	HS O	High Speed Output Complement.
15	OP1	HS O	High Speed Output.
17	ON2	HS O	High Speed Output Complement.
18	OP2	HS O	High Speed Output.
19	ON3	HS O	High Speed Output Complement.
20	OP3	HS O	High Speed Output.
21	COMP	Control	Power-On Compensation Pin. Bypass to ground through a 10 μF capacitor.
24, 27, 37, Exposed Pad	AVEE	Power	Negative Analog Supply. 0 V nominal.
28	TX_EN	Control	High Speed Output Enable Parallel Interface.
29	PE_EN	Control	High Speed Preemphasis Enable Parallel Interface.
31	CEC_OUT	LS I/O	CEC Output Side.
32	AMUXVCC	Power	Positive Auxiliary Buffer Supply. 5 V nominal.

## AD8195ACPZ Block diagram



## PCM9211 (DIGITAL : U2203)



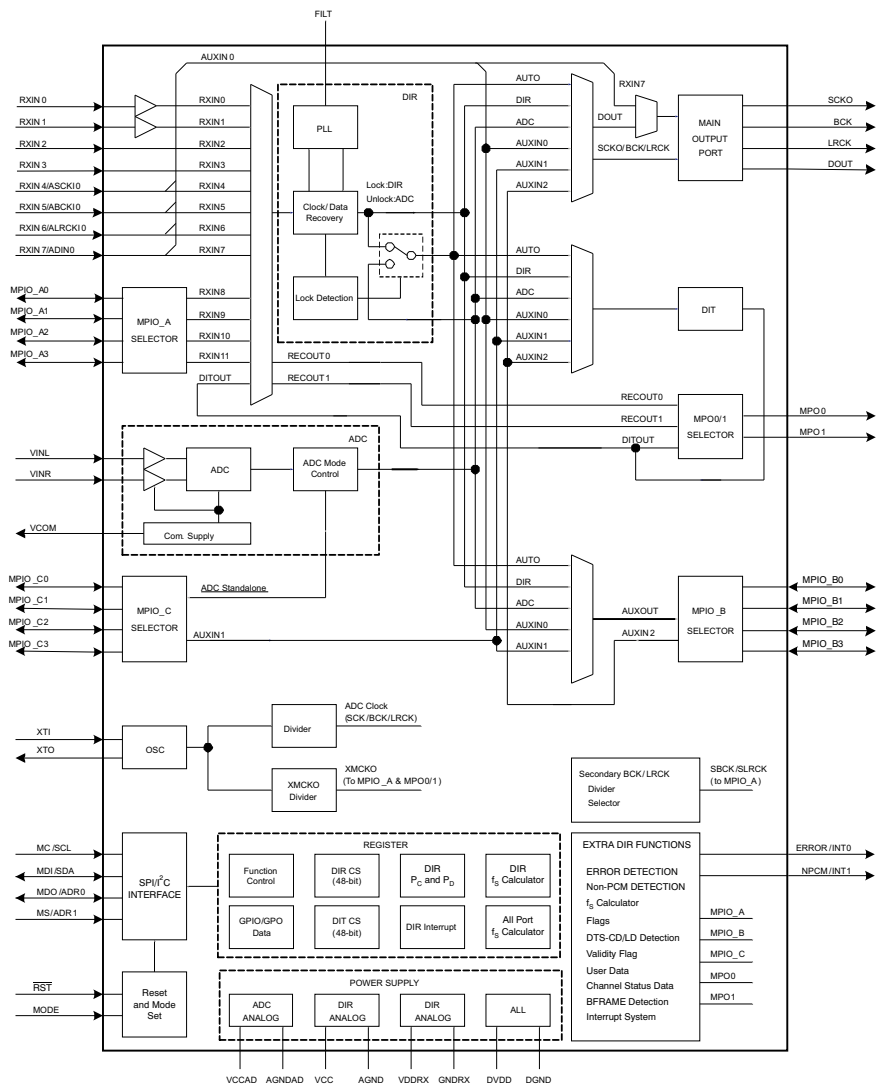
### PIN Functions

PIN				DESCRIPTION
NO.	NAME	I/O	5-V TOLERANT	
1	ERROR/INT0	O	No	DIR Error detection output / Interrupt0 output
2	NPCM/INT1	O	No	DIR Non-PCM detection output / Interrupt1 output
3	MPIO_A0	I/O	Yes	Multipurpose I/O, Group A(1)
4	MPIO_A1	I/O	Yes	Multipurpose I/O, Group A(1)
5	MPIO_A2	I/O	Yes	Multipurpose I/O, Group A(1)
6	MPIO_A3	I/O	Yes	Multipurpose I/O, Group A(1)
7	MPIO_C0	I/O	Yes	Multipurpose I/O, Group C(1)
8	MPIO_C1	I/O	Yes	Multipurpose I/O, Group C(1)
9	MPIO_C2	I/O	Yes	Multipurpose I/O, Group C(1)
10	MPIO_C3	I/O	Yes	Multipurpose I/O, Group C(1)
11	MPIO_B0	I/O	Yes	Multipurpose I/O, Group B(1)
12	MPIO_B1	I/O	Yes	Multipurpose I/O, Group B(1)
13	MPIO_B2	I/O	Yes	Multipurpose I/O, Group B(1)
14	MPIO_B3	I/O	Yes	Multipurpose I/O, Group B(1)
15	MPO0	O	No	Multipurpose output 0
16	MPO1	O	No	Multipurpose output 1
17	DOUT	O	No	Main output port, serial digital audio data output
18	LRCK	O	No	Main output port, LR clock output
19	BCK	O	No	Main output port, Bit clock output
20	SCKO	O	No	Main output port, System clock output
21	DGND	-	-	Ground, for digital
22	DVDD	-	-	Power supply, 3.3 V (typ.), for digital
23	MDO/ADR0	I/O	Yes	Software control I/F, SPI data output / I2C slave address setting0(2)
24	MDI/SDA	I/O	Yes	Software control I/F, SPI data input / I2C data input/output(2) (3)
25	MC/SCL	I	Yes	Software control I/F, SPI clock input / I2C clock input(2)
26	MS/ADR1	I	Yes	Software control I/F, SPI chip select / I2C slave address setting1(2)
27	MODE	I	No	Control mode setting, (see the Serial Control Mode section, Control Mode Pin Setting)
28	RXIN7/ADIN0	I	Yes	Biphase signal, input 7 / AUXIN0, serial audio data input(2)
29	RXIN6/ALRCKIO	I	Yes	Biphase signal, input 6 / AUXIN0, LR clock input(2)
30	RXIN5/ABCKIO	I	Yes	Biphase signal, input 5 / AUXIN0, bit clock input(2)
31	RXIN4/ASCKIO	I	Yes	Biphase signal, input 4 / AUXIN0, system clock input(2)
32	RXIN3	I	Yes	Biphase signal, input 3(2)
33	RXIN2	I	Yes	Biphase signal, input 2(2)

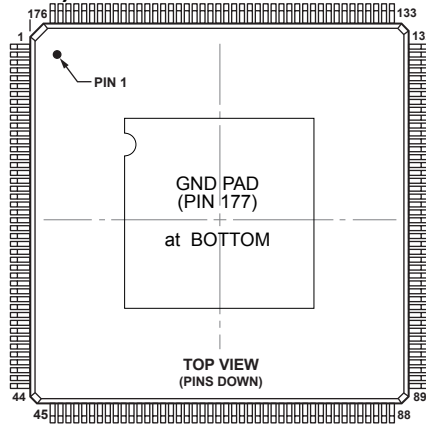
PIN				DESCRIPTION
NO.	NAME	I/O	5-V TOLERANT	
34	RST	I	Yes	Reset Input, active low(2) (4)
35	RXIN1	I	Yes	Biphase signal, input 1, built-in coaxial amplifier
36	VDDRX	-	-	Power supply, 3.3 V (typ.), for RXIN0 and RXIN1.
37	RXIN0	I	Yes	Biphase signal, input 0, built-in coaxial amplifier
38	GNDRX	-	-	Ground, for RXIN
39	XTI	I	No	Oscillation circuit input for crystal resonator or external XTI clock source input(5)
40	XTO	O	No	Oscillation circuit output for crystal resonator
41	AGND	-	-	Ground, for PLL analog
42	VCC	-	-	Power supply, 3.3 V (typ.), for PLL analog
43	FILT	O	No	External PLL loop filter connection terminal; must connect recommended filter
44	VCOM	O	No	ADC common voltage output; must connect external decoupling capacitor
45	AGNDAD	-	-	Ground, for ADC analog
46	VCCAD	-	-	Power supply, 5.0 V (typ.), for ADC analog
47	VINL	I	No	ADC analog voltage input, left channel
48	VINR	I	No	ADC analog voltage input, right channel

- (1) Schmitt trigger input
- (2) Schmitt trigger input
- (3) Open-drain configuration in I2C mode
- (4) Onboard pull-down resistor (50 kΩ, typical)
- (5) CMOS Schmitt trigger input

### PCM9211 BLOCK DIAGRAM



# ADSP21487KSWZ3B (HDMI : U2001)

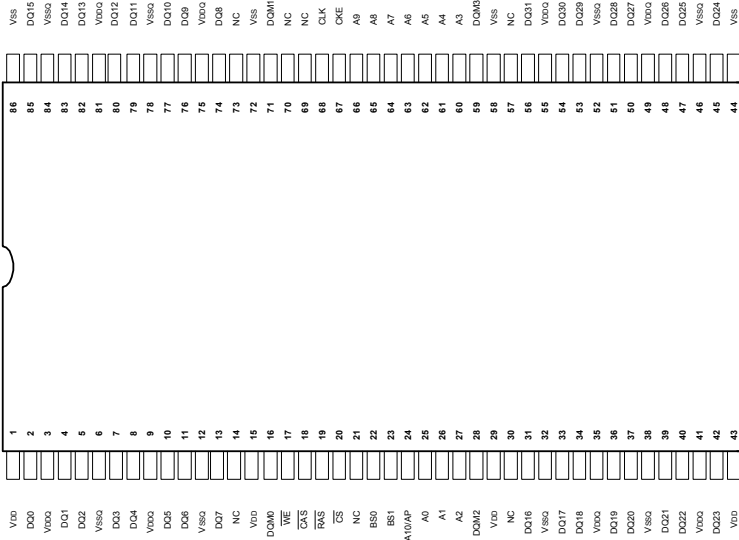


## ADSP21487KSWZ3B Terminal Function

Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.
SDDQM	1	V <sub>DD_EXT</sub>	45	DAI_P10	89	V <sub>DD_INT</sub>	133
MS0	2	DPI_P08	46	V <sub>DD_INT</sub>	90	FLAG0	134
SDCKE	3	DPI_P07	47	V <sub>DD_EXT</sub>	91	FLAG1	135
V <sub>DD_INT</sub>	4	V <sub>DD_INT</sub>	48	DAI_P20	92	FLAG2	136
CLK_CFG1	5	DPI_P09	49	V <sub>DD_INT</sub>	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 <sub>DD_EXT</sub>	8	DPI_P12	52	DAI_P04	96	NC	140
ADDR1	9	DPI_P13	53	DAI_P18	97	V <sub>DD_EXT</sub>	141
ADDR2	10	DPI_P14	54	DAI_P17	98	NC	142
ADDR3	11	DAI_P03	55	DAI_P16	99	V <sub>DD_INT</sub>	143
ADDR4	12	NC	56	DAI_P12	100	TRST	144
ADDR5	13	V <sub>DD_EXT</sub>	57	DAI_P15	101	NC	145
BOOT_CFG1	14	NC	58	V <sub>DD_INT</sub>	102	EMU	146
GND	15	NC	59	DAI_P11	103	DATA0	147
ADDR6	16	NC	60	V <sub>DD_EXT</sub>	104	DATA1	148
ADDR7	17	NC	61	V <sub>DD_INT</sub>	105	DATA2	149
NC	18	V <sub>DD_INT</sub>	62	BOOT_CFG2	106	DATA3	150
NC	19	NC	63	V <sub>DD_INT</sub>	107	TDO	151
ADDR8	20	NC	64	AMI_ACK	108	DATA4	152
ADDR9	21	V <sub>DD_INT</sub>	65	GND	109	V <sub>DD_EXT</sub>	153
CLK_CFG0	22	NC	66	THD_M	110	DATA5	154
V <sub>DD_INT</sub>	23	NC	67	THD_P	111	DATA6	155
CLKIN	24	V <sub>DD_INT</sub>	68	V <sub>DD_THD</sub>	112	V <sub>DD_INT</sub>	156
XTAL	25	NC	69	V <sub>DD_INT</sub>	113	DATA7	157
ADDR10	26	WDTRSTO	70	V <sub>DD_INT</sub>	114	TDI	158
SDA10	27	NC	71	MST	115	SDCLK	159
V <sub>DD_EXT</sub>	28	V <sub>DD_EXT</sub>	72	V <sub>DD_INT</sub>	116	V <sub>DD_EXT</sub>	160
V <sub>DD_INT</sub>	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 <sub>DD_EXT</sub>	119	DATA10	163
ADDR17	32	DAI_P01	76	ADDR23	120	TCK	164
ADDR13	33	DAI_P02	77	ADDR22	121	DATA11	165
V <sub>DD_INT</sub>	34	V <sub>DD_INT</sub>	78	ADDR21	122	DATA12	166
ADDR18	35	NC	79	V <sub>DD_INT</sub>	123	DATA14	167
RESETOUT/RUNRSTIN	36	NC	80	ADDR20	124	DATA13	168
V <sub>DD_INT</sub>	37	NC	81	ADDR19	125	V <sub>DD_INT</sub>	169
DPI_P01	38	NC	82	V <sub>DD_EXT</sub>	126	DATA15	170
DPI_P02	39	NC	83	ADDR16	127	SDWE	171
DPI_P03	40	V <sub>DD_EXT</sub>	84	ADDR15	128	SDRAS	172
V <sub>DD_INT</sub>	41	V <sub>DD_INT</sub>	85	V <sub>DD_INT</sub>	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 <sub>DD_INT</sub>	176
						GND	177*

\* at BOTTOM

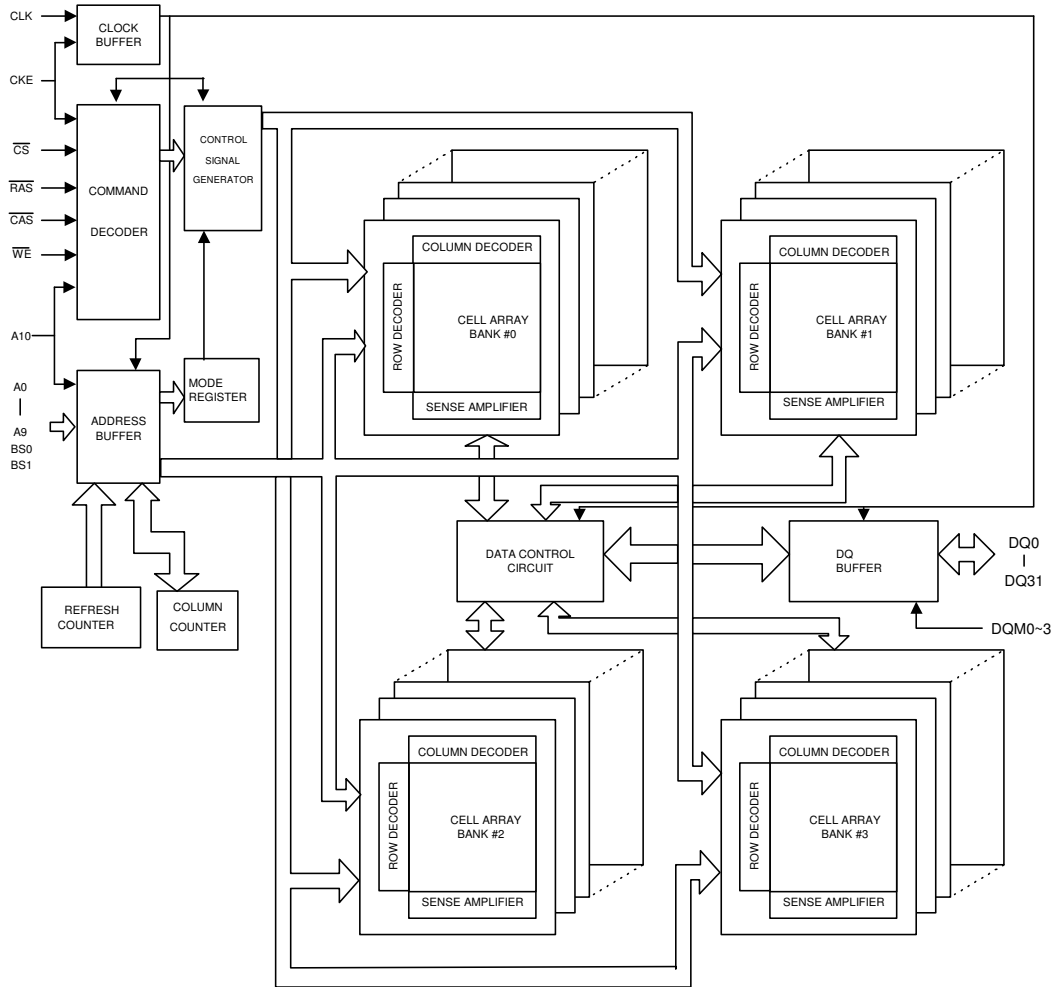
# W9864G6JH-6 (HDMI : U2002)



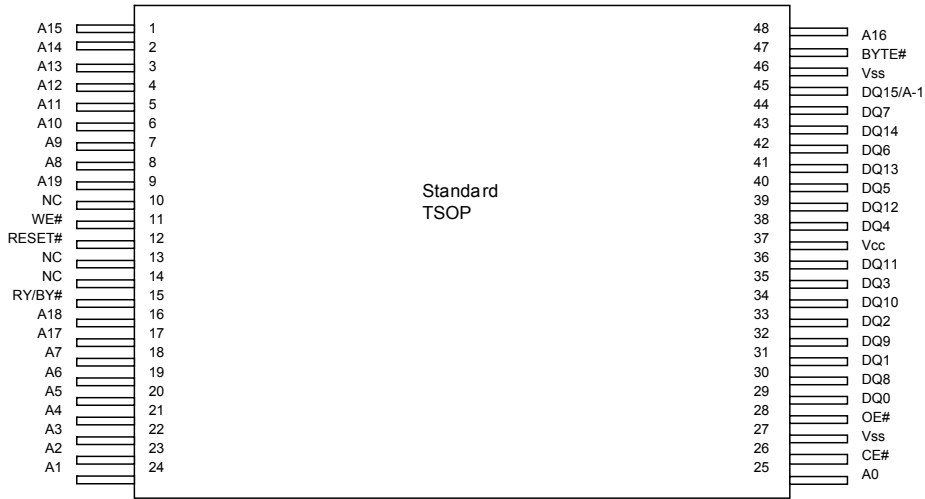
## W9864G6JH-6 Pin description

PIN NUMBER	PIN NAME	FUNCTION	DESCRIPTION
24, 25, 26, 27, 60, 61, 62, 63, 64, 65, 66	A0–A10	Address	Multiplexed pins for row and column address. Row address: A0–A10. Column address: A0–A7. A10 is sampled during a precharge command to determine if all banks are to be precharged or bank selected by BS0, BS1.
22, 23	BS0, BS1	Bank Select	Select bank to activate during row address latch time, or bank to read/write during address latch time.
2, 4, 5, 7, 8, 10, 11, 13, 31, 33, 34, 36, 37, 39, 40, 42, 45, 47, 48, 50, 51, 53, 54, 56, 74, 76, 77, 79, 80, 82, 83, 85	DQ0–DQ31	Data Input/ Output	Multiplexed pins for data output and input.
20	$\overline{CS}$	Chip Select	Disable or enable the command decoder. When command decoder is disabled, new command is ignored and previous operation continues.
19	$\overline{RAS}$	Row Address Strobe	Command input. When sampled at the rising edge of the clock $\overline{RAS}$ , $\overline{CAS}$ and $\overline{WE}$ define the operation to be executed.
18	$\overline{CAS}$	Column Address Strobe	Referred to $\overline{RAS}$
17	$\overline{WE}$	Write Enable	Referred to $\overline{RAS}$
16, 28, 59, 71	DQM0–DQM3	Input/Output Mask	The output buffer is placed at Hi-Z (with latency of 2) when DQM is sampled high in read cycle. In write cycle, sampling DQM high will block the write operation with zero latency.
68	CLK	Clock Inputs	System clock used to sample inputs on the rising edge of clock.
67	CKE	Clock Enable	CKE controls the clock activation and deactivation. When CKE is low, Power Down mode, Suspend mode, or Self Refresh mode is entered.
1, 15, 29, 43	VDD	Power	Power for input buffers and logic circuit inside DRAM.
44, 58, 72, 86	VSS	Ground	Ground for input buffers and logic circuit inside DRAM.
3, 9, 35, 41, 49, 55, 75, 81	VDDQ	Power for I/O Buffer	Separated power from VDD, to improve DQ noise immunity.
6, 12, 32, 38, 46, 52, 78, 84	VSSQ	Ground for I/O Buffer	Separated ground from VSS, to improve DQ noise immunity.
14, 21, 30, 57, 69, 70, 73	NC	No Connection	No connection.

# W9864G6JH-6 Block diagram

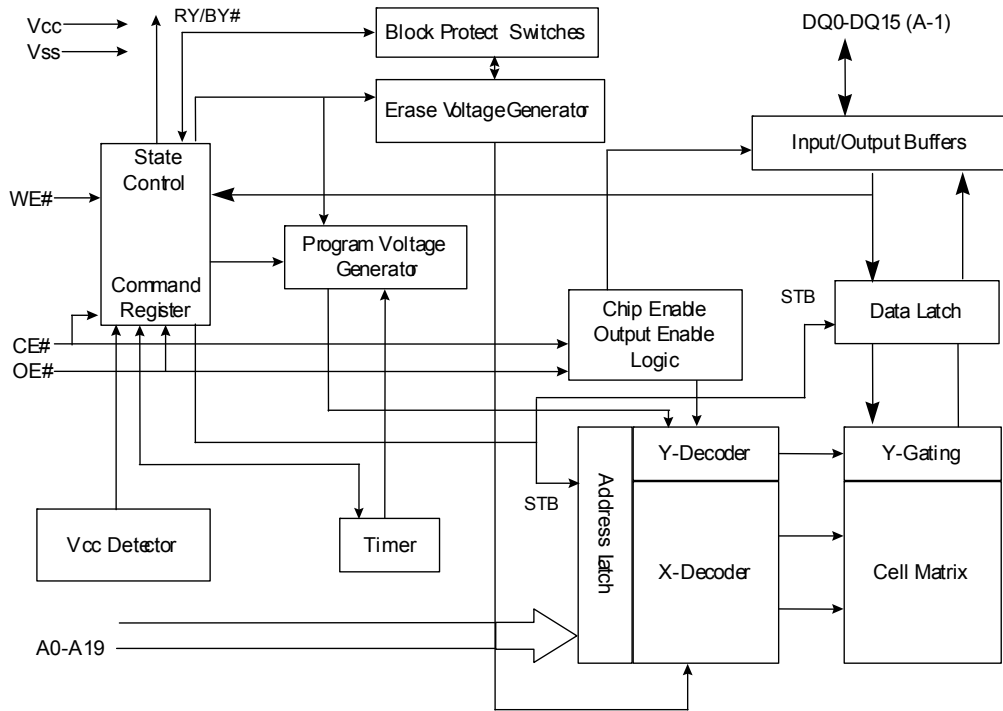


# EN29LV160BB-70TIP (HDMI : U2003)

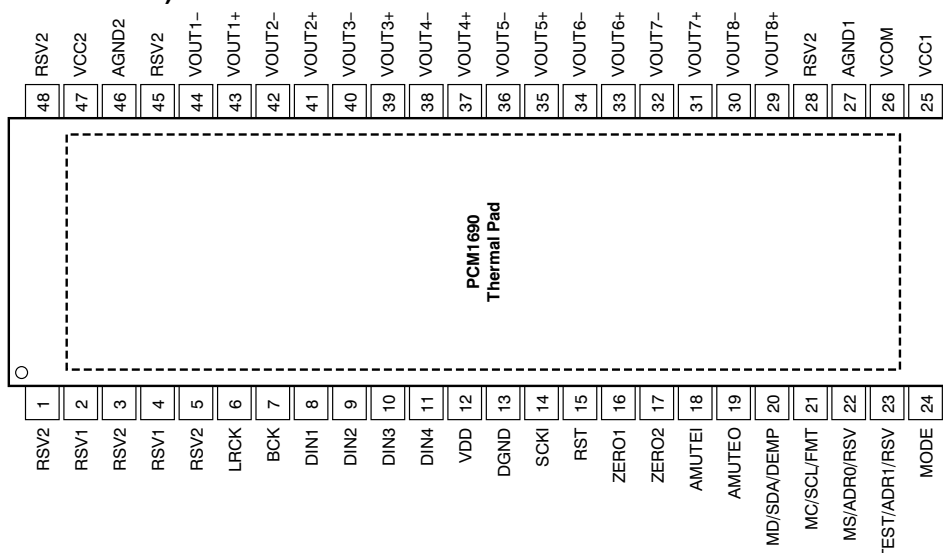


# EN29LV160BB-70TIP Block Diagram

Block Diagram



## PCM1690 (HDMI : U2404)



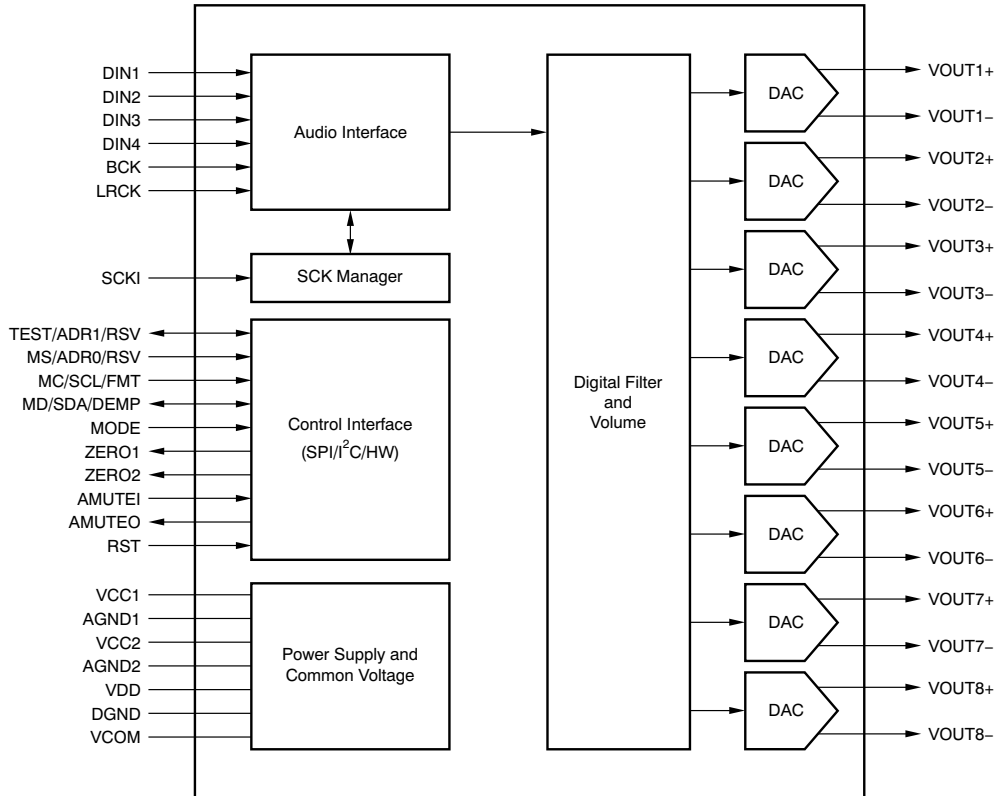
## PCM1690 Pin Function

TERMINAL NAME	PIN	I/O	PULL-DOWN	5-V TOLERANT	DESCRIPTION
RSV2	1	—	—	—	Reserved, tied to analog ground
RSV1	2	—	—	—	Reserved, left open
RSV2	3	—	—	—	Reserved, tied to analog ground
RSV1	4	—	—	—	Reserved, left open
RSV2	5	—	—	—	Reserved, tied to analog ground
LRCK	6	I	Yes	No	Audio data word clock input
BCK	7	I	Yes	No	Audio data bit clock input
DIN1	8	I	No	No	Audio data input for DAC1 and DAC2
DIN2	9	I	No	No	Audio data input for DAC3 and DAC4
DIN3	10	I	No	No	Audio data input for DAC5 and DAC6
DIN4	11	I	No	No	Audio data input for DAC7 and DAC8
VDD	12	—	—	—	Digital power supply, +3.3 V
DGND	13	—	—	—	Digital ground
SCKI	14	I	No	Yes	System clock input
RST	15	I	Yes	Yes	Reset and power-down control input with active low
ZERO1	16	O	No	No	Zero detect flag output 1
ZERO2	17	O	No	No	Zero detect flag output 2
AMUTEI	18	I	No	Yes	Analog mute control input with active low
AMUTEO	19	O	No	Yes	Analog mute status output(1) with active low
MD/SDA/DEMP	20	I/O	No	Yes	Input data for SPI, data for I2C(1), de-emphasis control for hardware control mode
MC/SCL/FMT	21	I	No	Yes	Clock for SPI, clock for I2C, format select for hardware control mode
MS/ADR0/RSV	22	I	Yes	Yes	Chip Select for SPI, address select 0 for I2C, reserve (set low) for hardware control mode
TEST/ADR1/RSV	23	I/O	No	Yes	Test (factory use, left open) for SPI, address select 1 for I2C, reserve (set low) for hardware control mode
MODE	24	I	No	No	Control port mode selection. Tied to VDD: SPI, left open: H/W mode, tied to DGND: I2C
VCC1	25	—	—	—	Analog power supply 1, +5 V
VCOM	26	—	—	—	Voltage common decoupling
AGND1	27	—	—	—	Analog ground 1
RSV2	28	—	—	—	Reserved, tied to analog ground
VOUT8+	29	O	No	No	Positive analog output from DAC8
VOUT8-	30	O	No	No	Negative analog output from DAC8
VOUT7+	31	O	No	No	Positive analog output from DAC7
VOUT7-	32	O	No	No	Negative analog output from DAC7
VOUT6+	33	O	No	No	Positive analog output from DAC6
VOUT6-	34	O	No	No	Negative analog output from DAC6
VOUT5+	35	O	No	No	Positive analog output from DAC5
VOUT5-	36	O	No	No	Negative analog output from DAC5
VOUT4+	37	O	No	No	Positive analog output from DAC4
VOUT4-	38	O	No	No	Negative analog output from DAC4
VOUT3+	39	O	No	No	Positive analog output from DAC3
VOUT3-	40	O	No	No	Negative analog output from DAC3
VOUT2+	41	O	No	No	Positive analog output from DAC2
VOUT2-	42	O	No	No	Negative analog output from DAC2

TERMINAL		I/O	PULL-DOWN	5-V TOLERANT	DESCRIPTION
NAME	PIN				
VOUT1+	43	O	No	No	Positive analog output from DAC1
VOUT1-	44	O	No	No	Negative analog output from DAC1
RSV2	45	—	—	—	Reserved, tied to analog ground
AGND2	46	—	—	—	Analog ground 2
VCC2	47	—	—	—	Analog power supply 2, +5 V
RSV2	48	—	—	—	Reserved, tied to analog ground

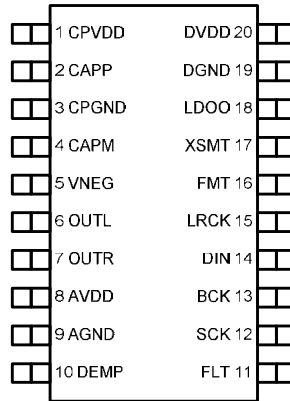
(1) Open-drain configuration in out mode.

## PCM1690 FUNCTIONAL BLOCK DIAGRAM



# PCM5100 (HDMI:U2401)

## PCM510X (top view)

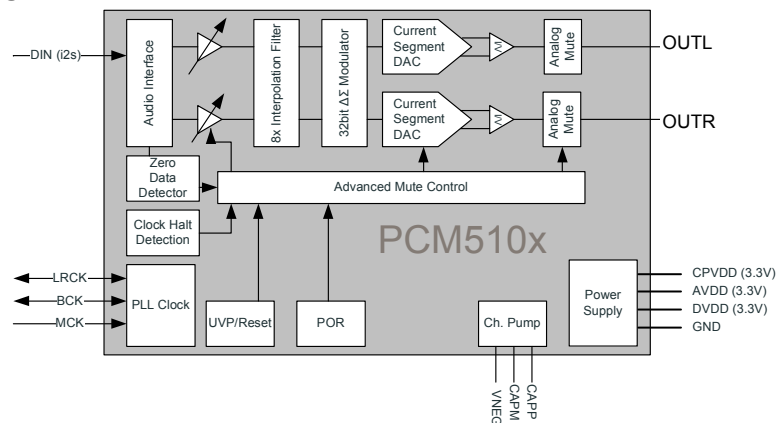


**Table 2. TERMINAL FUNCTIONS, PCM510x**

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 <sup>(1)</sup> : 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 <sup>2</sup> 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

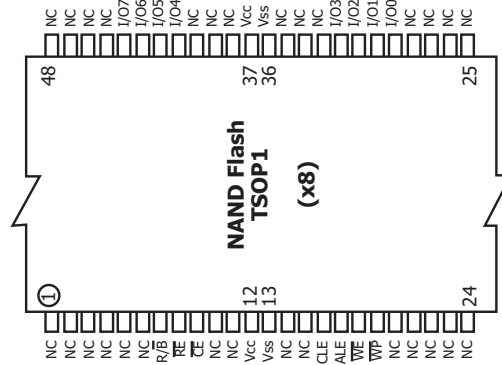
(1) Failsafe LVCMOS Schmitt trigger input

## PCM5100 Block Diagram



**Figure 1. PCM510x Functional Block Diagram**

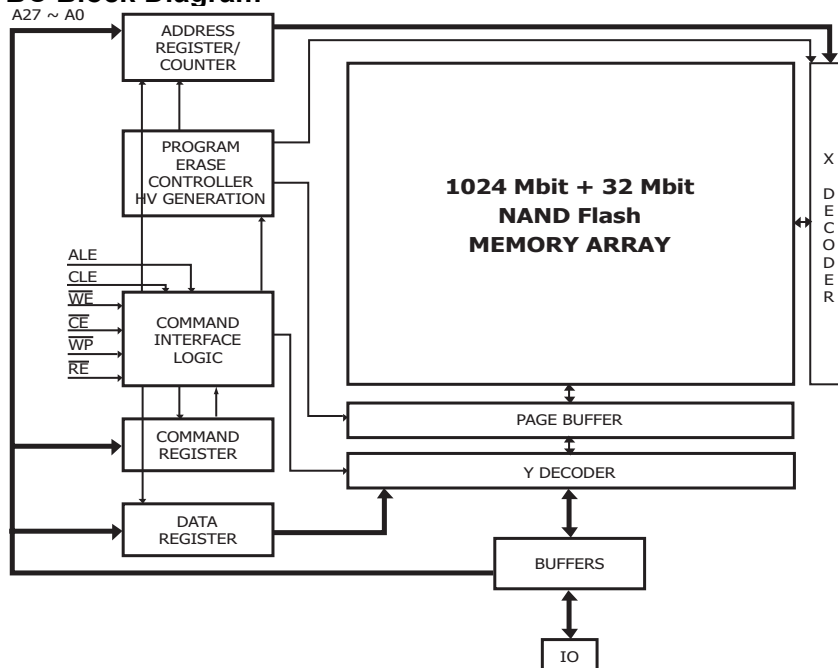
## H27U1G8F2BTR-BC (HDMI : U2603)



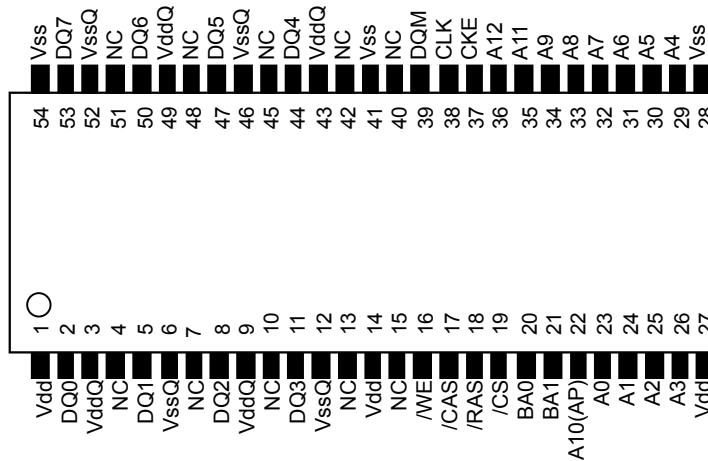
## H27U1G8F2BTR-BC Pin Function

Pin Name	Description
I00 ~ I07	<b>DATA INPUTS/OUTPUTS</b> The IO pins allow to input command, address and data and to output data during read / program operations. The inputs are latched on the rising edge of Write Enable (WE). The I/O buffer float to High-Z when the device is deselected or the outputs are disabled.
CLE	<b>COMMAND LATCH ENABLE</b> This input activates the latching of the IO inputs inside the Command Register on the Rising edge of Write Enable (WE).
ALE	<b>ADDRESS LATCH ENABLE</b> This input activates the latching of the IO inputs inside the Address Register on the Rising edge of Write Enable (WE).
$\overline{CE}$	<b>CHIP ENABLE</b> This input controls the selection of the device.
$\overline{WE}$	<b>WRITE ENABLE</b> This input acts as clock to latch Command, Address and Data. The IO inputs are latched on the rise edge of WE.
$\overline{RE}$	<b>READ ENABLE</b> The RE input is the serial data-out control, and when active drives the data onto the I/O bus. Data is valid tREA after the falling edge of RE which also increments the internal column address counter by one.
$\overline{WP}$	<b>WRITE PROTECT</b> The WP pin, when Low, provides an Hardware protection against undesired modify (program / erase) operations.
R/ $\overline{B}$	<b>READY BUSY</b> The Ready/Busy output is an Open Drain pin that signals the state of the memory.
Vcc	<b>SUPPLY VOLTAGE</b> The Vcc supplies the power for all the operations (Read, Write, Erase).
Vss	GROUND
NC	NO CONNECTION

## H27U1G8F2BTR-BC Block Diagram



## A3V56S30FTP-G6 (HDMI:U2604,2605)

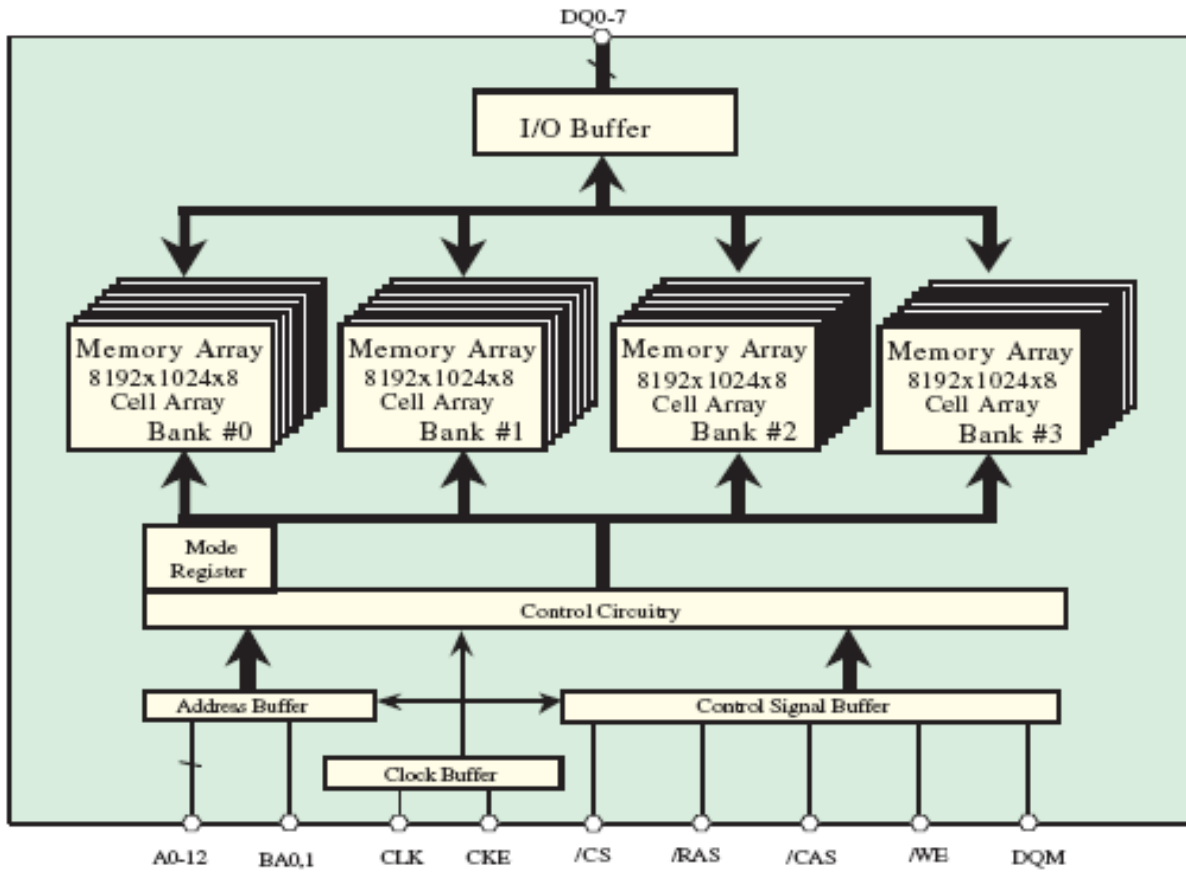


## A3V56S30FTP-G6 Pin Function

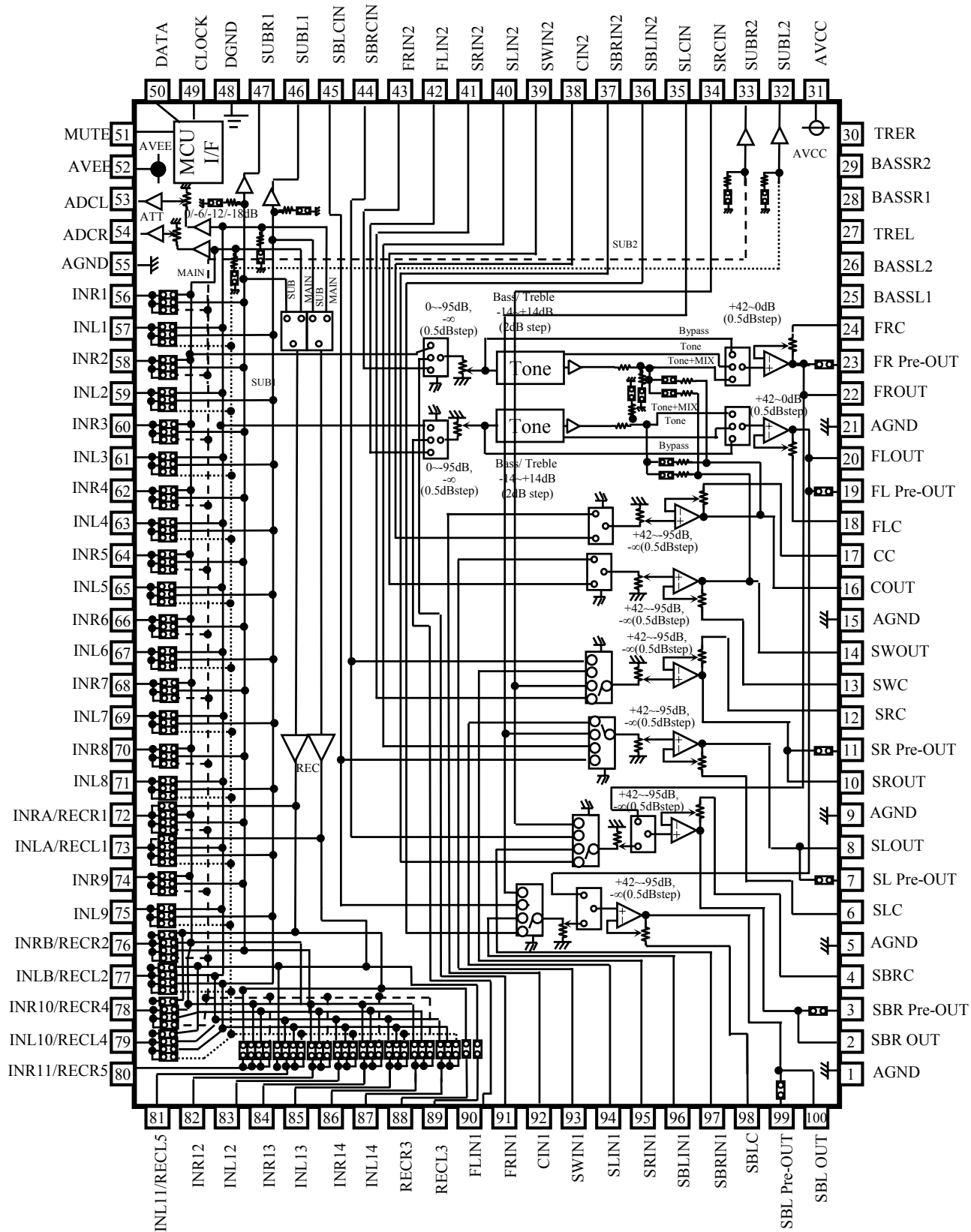
### Pin Descriptions

SYMBOL	TYPE	DESCRIPTION
CLK	Input	Clock: CLK is driven by the system clock. All SDRAM input signals are sampled on the positive edge of CLK. CLK also increments the internal burst counter and controls the output registers.
CKE	Input	Clock Enable: CKE activates (HIGH) and deactivates (LOW) the CLK signal. Deactivating the clock provides PRECHARGE POWER-DOWN and SELF REFRESH operation (all banks idle), ACTIVE POWER-DOWN (row active in any bank), or CLOCK SUSPEND operation (burst / access in progress). CKE is synchronous except after the device enters self refresh mode, where CKE becomes asynchronous until after exiting the same mode. The input buffers, including CLK, are disabled during self refresh mode, providing low standby power. CKE may be tied HIGH.
/CS	Input	Chip Select: /CS enables (registered LOW) and disables (registered HIGH) the command decoder. All commands are masked when /CS is registered HIGH. /CS provides for external bank selection on systems with multiple banks. /CS is considered part of the command code.
/CAS, /RAS, /WE	Input	Command Inputs: /CAS, /RAS, and /WE (along with /CS) define the command being entered.
DQM, DQML, DQMU	Input	Input / Output Mask: DQM is sampled HIGH and is an input mask signal for write accesses and an output disable signal for read accesses. Input data is masked during a WRITE cycle. The output buffers are placed in a High-Z state (two-clock latency) when during a READ cycle. DQM corresponds to DQ0–DQ7 (A3V56S30FTP). DQML corresponds to DQ0–DQ7, DQMU corresponds to DQ8–DQ15 (A3V56S40FTP).
BA0, BA1	Input	Bank Address Input(s): BA0 and BA1 define to which bank the ACTIVE, READ, WRITE or PRECHARGE command is being applied.
A0–A12	Input	A0-12 specify the Row / Column Address in conjunction with BA0,1. The Row Address is specified by A0-12. The Column Address is specified by A0-9(x8) and A0-8(x16). A10 is also used to indicate precharge option. When A10 is high at a read / write command, an auto precharge is performed. When A10 is high at a precharge command, all banks are precharged.
DQ0–DQ15	I/O	Data Input / Output: Data bus.
NC	–	Internally Not Connected: These could be left unconnected, but it is recommended they be connected or Vss.
VddQ	Supply	Data Output Power: Provide isolated power to output buffers for improved noise immunity.
VssQ	Supply	Data Output Ground: Provide isolated ground to output buffers for improved noise immunity.
Vdd	Supply	Power for the input buffers and core logic.
Vss	Supply	Ground for the input buffers and core logic.

# A3V56S30FTP-G6 Block Diagram



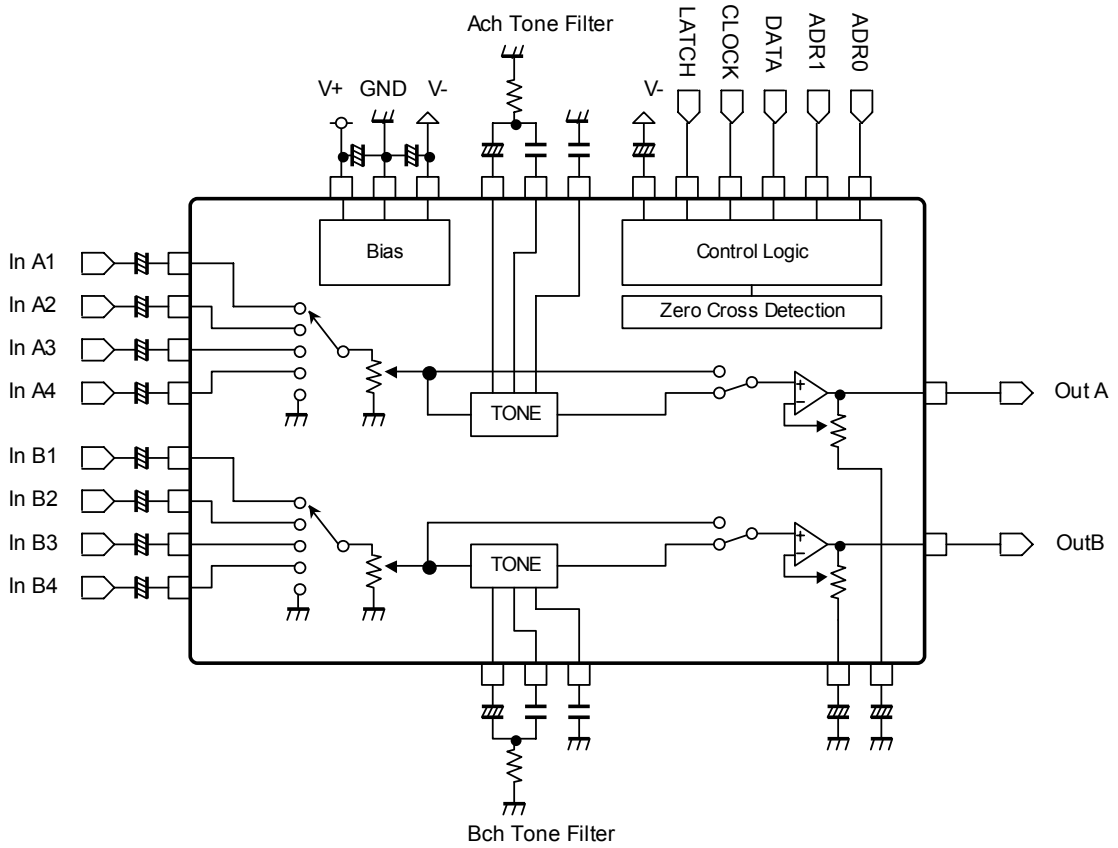
R2A15218FP (INPUT : IC4200)



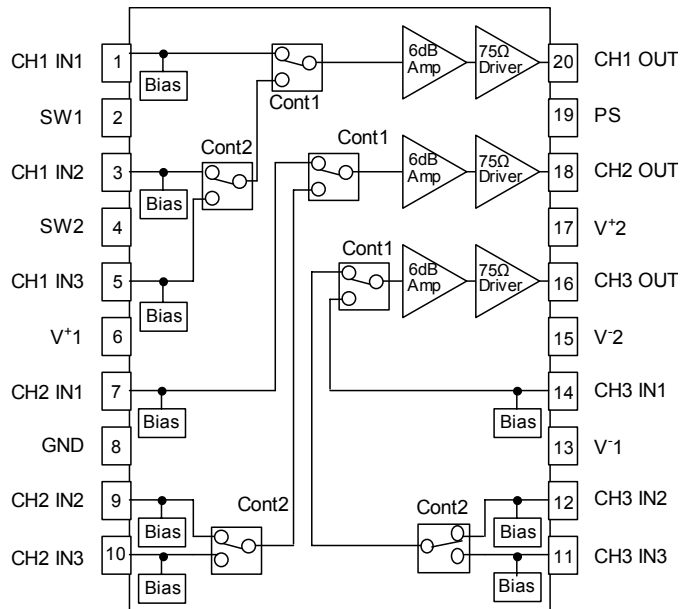
## R2A15218FP Pin Function

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 <sup>rd</sup> 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 (AUDIO : IC484,IC489)**



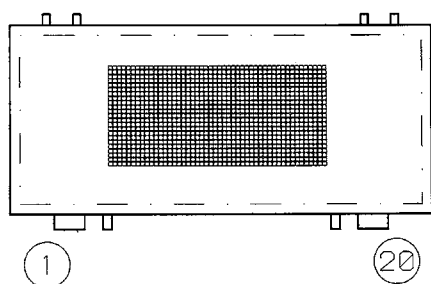
**NJM2586AM (VIDEO : IC5003)**



**SSOP20-C3**

## 2. FL DISPLAY

### FLD (GP1261AI) (FRONT : FLT4400)



### PIN CONNECTION

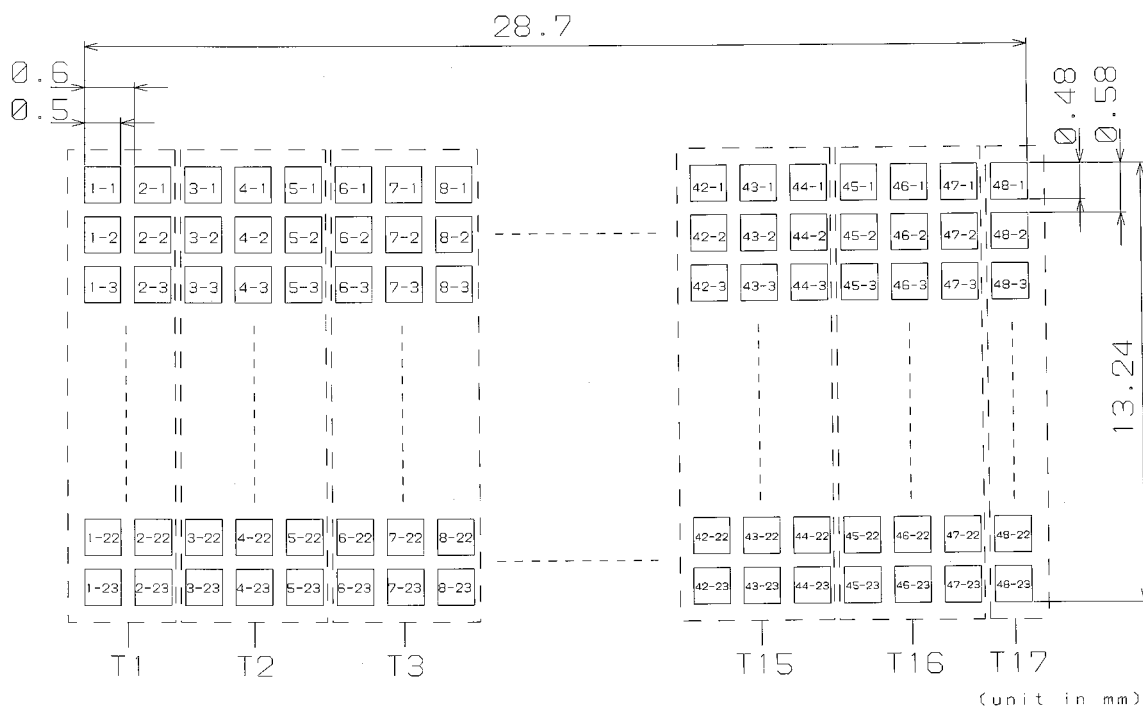
PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20						
CONNECTION	F	N	N	N	N	N	N	N	N	N	R	S	D	C	-	O	P	L	G	G	V	N	N	D	N	F
	-	P	C	C	C	C	T	T	T	T	I	O	K	S	C	H	D	D	D	D	P	+				

NOTE

- 1) F-,F+ --- Filament
- 2) NP ----- No pin
- 3) DL ----- Datum Line
- 4) VDD ----- Logic Voltage Supply pin
- 5) LGND ----- Logic GND pin
- 6) PGND ----- Power GND pin
- 7) VH ----- High Voltage Supply pin
- 8) OSC ----- Pin for self-oscillation
- 9) CS ----- Chip Select Input pin
- 10) CLK ----- Shift Register Clock

- 11) DIO ----- Serial Data Input
- 12) RESET --- Reset Input
- 13) INT ----- Int pin
- 14) TEST --- Test pin
- 15) Solder composition is Sn-3Ag-0.5Cu.
- 16) NC ----- No connection  
(NC pin should be electrically open on the PC board)

### PATTERN DETAIL



#### COLOR OF ILLUMINATION

Green (G. x=0.24,y=0.41) - - - - - All graphics.

## MAIN PCB ASS'Y

※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 : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
<b>SEMICONDUCTORS GROUP</b>						
D4000-4004	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	5	
D4007	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	1	
D4008	963203500300D	DIODE BRIDGE D10SB60 600V/10A STRAIGHT TYPE		K047100600220S	1	
D4009-4012	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	4	
D4013	00D9630236504	RB721Q-40-DO34-AXIAL LRC		K120072140040S	1	
D4014,4015	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	2	
D4016	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	1	
D4017,4018	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	2	
D4019	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	1	
D4020-4022	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	3	
D4023	00D9630236504	RB721Q-40-DO34-AXIAL LRC		K120072140040S	1	
D4024,4025	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	2	
D4026	00D9630236504	RB721Q-40-DO34-AXIAL LRC		K120072140040S	1	
D4027-4030	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	4	
D4031,4032	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	2	
D4033-4036	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	4	
D4037	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	1	
D4038	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	1	
D4039	00D9630236504	RB721Q-40-DO34-AXIAL LRC		K120072140040S	1	
IC4000	00D2631100005	KIA7805API,20W-TO220IS MOLD		J126780500110S	1	
IC4001	00D2631099006	KIA7905PI,20W-TO220IS MOLD		J126790500070S	1	
IC4002	00D2631104001	BA08T 8V TO220FP LOW-DROP POSITIVE VOLTAGE REG		J12608000020S	1	
IC4003	00D2631100005	KIA7805API,20W-TO220IS MOLD		J126780500110S	1	
IC4004	00D2631251006	KIA7908PI,20W-TO220IS		J126790800060S	1	
Q4000-4004	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	5	
Q4005-4009	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	5	
ZD4000,4001	963202500360D	ZJ33B-0.5W/5MA-52MM SEMTECH		K06033R044522S	2	
ZD4002	963202500330D	ZJ6 8B-0.5W/5MA-52MM SEMTECH		K06006R844522S	1	
<b>RESISTOR GROUP</b>						
R4000,4001	963125010110S	470-J,2W-R.REEL		C060047166060S	2	
R4002	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1	
R4003	963125010100S	10-J 2W, R-REEL		C060010066050S	1	
R4004	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1	
R4005	963125010100S	10-J 2W, R-REEL		C060010066050S	1	
R4006	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1	
R4007	963125010100S	10-J 2W, R-REEL		C060010066050S	1	
R4008	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1	
R4009	963125010100S	10-J 2W, R-REEL		C060010066050S	1	
R4010	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1	
R4011	963125010100S	10-J 2W, R-REEL		C060010066050S	1	
R4012	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1	
R4013	963125010100S	10-J 2W, R-REEL		C060010066050S	1	
R4014	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1	
R4015	963125010100S	10-J 2W, R-REEL		C060010066050S	1	
R4016	nsp	100-J,1/5W-52RE-AX		C00001016P520S	1	
R4017-4020	nsp	20-J,1/5W-52RE-AX		C00002006P520S	4	
R4025-4027	963125500070D	1.1K-J,1W-R.REEL		C060011265050S	3	
R4029	nsp	10K-J,1/4W-R.REEL		C060103063050S	1	
R4032	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
R4035	nsp	0-J,1/10W-2012REEL		C200000060200S	1	
R4039,4040	nsp	82K-J,1/16W-1608REEL		C20008236M160S	2	
R4041	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R4042	nsp	33-J,1/16W-1608REEL		C20003306M160S	1	
R4043	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R4046	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1	
R4048	nsp	33-J,1/16W-1608REEL		C20003306M160S	1	
RLY4000	00D9630218409	BC3-12 24V 2A 2ヶ端子 2ヶ入力 (SMALL SIGNAL)		G680240202030S	1	
RLY4001-4004	963682100280D	JZC-42F/012-2HST 24.4*12.8*24.8mm		G680060103010S	4	
<b>CAPACITORS GROUP</b>						
C4000	nsp	MI-0.047UF-J/50V-5RE		D020473167050S	1	
C4001	nsp	X7R2200PF-K/50V-1608REEL		D011222777160S	1	
C4003	nsp	MI-0.047UF-J/50V-5RE		D020473167050S	1	
C4004	nsp	X7R2200PF-K/50V-1608REEL		D011222777160S	1	
C4006,4007	nsp	MI-0.047UF-J/50V-5RE		D020473167050S	2	
C4008	nsp	X7R2200PF-K/50V-1608REEL		D011222777160S	1	
C4010,4011	nsp	MI-0.047UF-J/50V-5RE		D020473167050S	2	
C4012	nsp	X7R2200PF-K/50V-1608REEL		D011222777160S	1	
C4014	nsp	X7R2200PF-K/50V-1608REEL		D011222777160S	1	
C4016,4017	nsp	MI-0.047UF-J/50V-5RE		D020473167050S	2	
C4018	nsp	X7R2200PF-K/50V-1608REEL		D011222777160S	1	
C4020	nsp	MI-0.047UF-J/50V-5RE		D020473167050S	1	
C4021	nsp	X7R2200PF-K/50V-1608REEL		D011222777160S	1	
C4023-4025	nsp	MI-0.047UF-J/50V-5RE		D020473167050S	3	
C4027	nsp	X7R1000PF-K/50V-1608REEL		D011102777160S	1	
C4028	nsp	MI-0.047UF-J/50V-5RE		D020473167050S	1	
C4030	nsp	MI-0.047UF-J/50V-5RE		D020473167050S	1	
C4032	nsp	X7R1000PF-K/50V-1608REEL		D011102777160S	1	
C4035	nsp	X7R1000PF-K/50V-1608REEL		D011102777160S	1	
C4038	nsp	X7R1000PF-K/50V-1608REEL		D011102777160S	1	
C4041	nsp	X7R1000PF-K/50V-1608REEL		D011102777160S	1	
C4044	nsp	X7R1000PF-K/50V-1608REEL		D011102777160S	1	
C4047	nsp	X7R1000PF-K/50V-1608REEL		D011102777160S	1	
C4049	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1	
C4050,4051	nsp	RED-0.1UF-K/250V-5RE PCMT365		D02010407H080S	2	
C4052	963134501800D	10000UF-M/71V,35*50 BULK LAO-71V103MS57P5W1#B		D040103089220S	1	
C4053	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4054	963134501800D	10000UF-M/71V,35*50 BULK LAO-71V103MS57P5W1#B		D040103089220S	1	
C4057	963134502400S	MI-0.1UF-J/50V-5RE		D020104167050S	1	
C4058	963134010700S	2200UF-M/25V,16*25-L.BLK SMS 5.0MC SY		D040222084030S	1	
C4059	963134011290S	4700UF-M/16V,16*25-L.BLK SMS 5.0MC SY		D040472083020S	1	
C4060,4061	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2	
C4062	00D9630217002	3300UF-M/16V,12.5*25L.BLK SHL 5.0MC SY		D04032083010S	1	

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
C4063	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
C4064	00D9630333203	100UF-M/16V,5*11-5RE.SHL SY		D040101083090S	1		
C4065	963134502760S	6800UF-M/25V,16*31.5 MHA SY		D040682084080S	1	*	Ver.2
C4066	963134502390S	470UF-M/50V,10*20 BULK SHL SY		D040471087040S	1		
C4067	90M-OA000500R	4700UF-M/25V(MHA),16*25 P=7.5 L.BLK		D040472084240S	1		
C4068	963134502390S	470UF-M/50V,10*20 BULK SHL SY		D040471087040S	1		
C4077-4081	nsp	COG100PF-J/50V-1608REEL		D010101167160S	5		
C4082	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1		
<b>OTHER PARTS GROUP</b>							
CN4211	nsp	260MM/3P 5264-03=CKM2509HV-03 RD1569#20 105C		L000261030110S	1		
CN4212	nsp	120MM/10P 20010HS-10=CKM2002HV-10 WH1007#26 24#1		L002121102620S	1		
CN4213	nsp	220MM/5P 5264-05=CKM2509HV-05 RD1569#20 105C		L000221050070S	1		
CP4000	nsp	35328-0360, 7.92MM HEADER,VER,3CKT		L108353280360S	1		
CP4002	nsp	C125Z1-15 15P BtoB HEADER(MALE) P=1.25MM		L109012511520S	1		
CP4003	nsp	C125Z1-19 19P BtoB HEADER(MALE) P=1.25MM		L109012511920S	1		
CP4006	nsp	C125Z1-11 11P BtoB HEADER(MALE) P=1.25MM		L109012511120S	1		
CP4007	nsp	C125Z1-09 9P BtoB HEADER(MALE) P=1.25MM		L109012510920S	1		
BD4000	nsp	CBW160808U121T 120ohm SMD1608 TYPE		D340160811210S	1		
BKT4143	nsp	AVR1611BKE3 SECC t1.0+Sn plating /PCB MTG		4010214876000S	1		
JACK4000-4006	963646100580S	SJ2004S-A006-00A200B(RD,BK)(Transparent) BINDING		G6112004SA00JS	7	*	Ver.2
L4000-4006	nsp	SP-2507 1.0 P1*2UEW TURNS=7T SPRING COIL		D330900001330S	7		
PACK4000	963183012380S	KST-MW004MV1-S63SV 4GANG+MW+50US NA	U	E903004100031S	1		
PACK4000	963183100350S	KST-MW104FV1-S63G 4GANG+FM ONLY+50US+RDS	N	E900104012630S	1		
PACK4000	943183100220S	KST-MW004FV1-S63 4GANG+FM ONLY+50US	K	E900004010630S	1		

FRONT PCB ASS'Y

※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 : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
<b>SEMICONDUCTORS GROUP</b>						
D4400	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1	
D4401-4405	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	5	
D4406,4407	963209003510S	CDS3C05HDM11 CERADIODE ESD FOR HDMI 1608REEL		K067030500010S	2	
D4408	963209500020S	CDS3C15GTA 1608REEL CERADIODE ESD B72500D0150A060		K067031500010S	1	
D4409-4416	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	8	
IC4400	963231101200S	NJM2887DL3-TE2 TO-252-5 LOW-DROP VOL REGULATOR		J126288700010S	1	
IC4401,4402	00D2631289900	AZ4580M-TRE1-SOIC8P/DUAL LOW NOISE OP AMP		J121458000020S	2	
Q4403	00D963022670S	KTC1027Y,1W/TO92L-REEL		J5021027Y0020S	1	
Q4405-4409	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	5	
Q4410	943215500030S	RT1P441C 0.2W/SC-59 ISAHAYA		J520104411210S	1	
ZD4400	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
ZD4401	963202500420S	ZJ18B-0.5W/5MA-52MM SEMTECH		K06018R044522S	1	
ZD4402	963202500430S	ZJ24B-0.5W/5MA-52MM SEMTECH		K06024R044522S	1	
ZD4403,4404	963202500310D	ZJ5,1B-0.5W/5MA-52MM SEMTECH		K06005R144522S	2	
ZD4407	963202500310D	ZJ5,1B-0.5W/5MA-52MM SEMTECH		K06005R144522S	1	
<b>RESISTOR GROUP</b>						
R4401	00D9639006272	RSD-R1-1WJ-4.7 3*9 P=5MM SMALL R.REEL		N113135647920S	1	
R4403	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
R4405	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R4406	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1	
R4409	nsp	150-J,1/16W-1608REEL		C20001516M160S	1	
R4411	nsp	75K-J,1/16W-1608REEL		C20007536M160S	1	
R4415	nsp	150K-J,1/16W-1608REEL		C20001546M160S	1	
R4416	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	1	
R4418	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	1	
R4423	nsp	10-J,1/16W-1608REEL		C20001006M160S	1	
R4425	nsp	10-J,1/16W-1608REEL		C20001006M160S	1	
R4426	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R4429	nsp	150-J,1/16W-1608REEL		C20001516M160S	1	
R4430-4432	nsp	100-J,1/16W-1608REEL		C20001016M160S	3	
R4433	nsp	120K-J,1/16W-1608REEL		C20001246M160S	1	
R4434	nsp	1.2K-J,1/16W-1608REEL		C20001226M160S	1	
R4435	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R4437	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R4438	nsp	1.2K-J,1/16W-1608REEL		C20001226M160S	1	
R4439	nsp	150-J,1/16W-1608REEL		C20001516M160S	1	
R4441	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R4442,4443	nsp	100-J,1/5W-52RE-AX		C00001016P520S	2	
R4444	nsp	0-J,1/16W-1608REEL		C20000006M160S	1	
R4445	nsp	300-J,1/16W-1608REEL		C20003016M160S	1	
R4446	nsp	47K-J,1/16W-1608REEL		C20004736M160S	1	
R4447	nsp	390-J,1/16W-1608REEL		C20003916M160S	1	
R4448	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1	
R4450-4454	nsp	100-J,1/16W-1608REEL		C20001016M160S	5	
R4455	nsp	18K-J,1/16W-1608REEL		C20001836M160S	1	
R4456,4457	nsp	4.7K-J,1/5W-52RE-AX		C00004726P520S	2	
R4458	nsp	820-J,1/16W-1608REEL		C20008216M160S	1	
R4459	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R4460	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1	
R4461	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	1	
R4462	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1	
R4465,4466	nsp	100-J,1/5W-52RE-AX		C00001016P520S	2	
R4467,4468	nsp	100K-J,1/16W-1608REEL		C20001046M160S	2	
R4469	nsp	100-J,1/5W-52RE-AX		C00001016P520S	1	
R4470	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1	
R4471,4472	nsp	2.2K-J,1/16W-1608REEL		C20002226M160S	2	
R4473	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R4474,4475	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R4476	nsp	0-J,1/16W-1608REEL		C20000006M160S	1	
R4477,4478	nsp	100-J,1/16W-1608REEL		C20001016M160S	2	
R4479	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1	
R4481	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1	
R4483,4484	nsp	4.7K-J,1/5W-52RE-AX		C00004726P520S	2	
R4485,4486	nsp	0-J,1/16W-1608REEL		C20000006M160S	2	
R4489,4490	nsp	0-J,1/16W-1608REEL		C20000006M160S	2	
RMC4400	963262012130S	R34ES9A 36KHZ IR REMOCON MODULE P=2.54MM		E940349003610S	1	
<b>CAPACITORS GROUP</b>						
C4409,4410	nsp	RED-0.1UF-K/250V-5RE PCMT365		D02010407H080S	2	
C4411	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C4412	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4413	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
C4414	00D9630157900	470UF-M/63V,12.5*20 BULK- SHL SY		D040471088010S	1	
C4416	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4418	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C4419	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4421,4422	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2	
C4424	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C4426	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C4427-4429	nsp	COG100PF-J/50V-1608REEL		D010101167160S	3	
C4431,4432	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	2	
C4433	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4434	nsp	X7R0.01UF-K/50V-1608REEL		D011103777160S	1	
C4435	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C4436	nsp	Y5V0.047UF-Z/50V-1608REEL		D011473597160S	1	
C4437,4438	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	2	
C4440,4441	nsp	X7R0.01UF-K/50V-1608REEL		D011103777160S	2	
C4442,4443	nsp	COG470PF-J/50V-1608REEL		D010471167160S	2	
C4444	nsp	COG82PF-J/50V-1608REEL		D010820167160S	1	
C4445	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4446	00D9630293709	100UF-M/10V,5*11-5RE.SMS SY		D040101082070S	1	
C4447	nsp	X7R0.047UF-K/25V-1608REEL		D011473774161S	1	
C4448	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
C4449	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4450	nsp	X7R)0.047UF-K/25V-1608REEL		D011473774161S	1	
C4451	nsp	Y5V0.047UF-Z/50V-1608REEL		D011473597160S	1	
C4452,4453	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2	
C4454	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C4455,4456	nsp	COG330PF-J/50V-1608REEL		D010331167160S	2	
C4457,4458	nsp	X7R1000PF-K/50V-1608REEL		D011102777160S	2	
C4460,4461	nsp	X7R0.01UF-K/50V-1608REEL		D011103777160S	2	
C4462	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C4463	nsp	220UF-M/6.3V,8*5-5RE SRE SY		D040221081070S	1	
C4464	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C4465,4466	nsp	COG470PF-J/50V-1608REEL		D010471167160S	2	
C4467	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1	
C4469	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	1	
C4472,4473	nsp	ST-0.01UF-J/100V-5RE PEFAM103J100 PEF TYPE		D02010306C060S	2	
C4474,4475	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	2	
C4476	nsp	ST-0.1UF-J/100V-5RE PEFAM104J100 PEF TYPE		D02010406C060S	1	
C4477	nsp	ST-0.047UF-J/100V-5RE		D02047306C060S	2	
C4478,4479	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C4480	nsp	Y5V0.047UF-Z/50V-1608REEL		D011473597160S	1	
<b>OTHER PARTS GROUP</b>						
CLAMP401	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	1	
CLAMP403	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	1	
CLAMP405	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	1	
CN4400	nsp	1.0-11S-40PW 40P AN DIP TOP CONTACT		L130100114050S	1	
CN4401	nsp	TUC-P05X-B1 BD-TO-BD 5P HOUSING ST (35237-05)		L101100030510S	1	
CN4402	nsp	330MM/5P 20010HS-05=CKM2002HV-05 RD2725#24/28 TUBE		L002331050150S	1	
CP4400	nsp	5268-07A 7P ANGLE		L102526800700S	1	
CP4401	nsp	TUC-P05P-B1 BD-TO-BD 5P WAFER ST (35336-05)		L101100040510S	1	
BD4400	nsp	CBW160808U121T 120ohm SMD1608 TYPE		D340160811210S	1	
BD4401-4407	nsp	0-J,1/16W-1608REEL		C20000006M160S	7	
BD4408	nsp	BLM21PG221SN1 220ohm 2A SMD2012 TYPE		D340201212210S	1	
BD4409,4410	nsp	0-J,1/16W-1608REEL		C20000006M160S	2	
BKT4001	nsp	SR5006U1BSPTH t0.5(CMD1A792) A4/USB		4010215216000S	1	
BKT4400,4401	nsp	AVR3300(E3)(DENON) SPTE 0.8t/SCREW		4010210196000S	2	
! F4400	963652500020S	6125FF500-R 500mA FAST-ACTING SUBMINIATURE FUSE		G657612505030S	1	
FLT4400	172010008005S	GP1261AI 55.6*25 6.6T GREEN/SR5006		K530126100010S	1	
G4401	nsp	160MM/1P 61640-BS=CKM9919T BK1617#22		8410161010120S	1	
J4401	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
J4406-4495	nsp	JUMPER (0.6/52MM)		L045084006040S	90	
JACK4400	963643101150S	JALCO(YKB21-5442V)		G401KB215442VS	1	
JACK4401	963643101160S	RCA-328H-1-03(BK,BK,BK)		G606328H0300YS	1	
JK4400	963643101840S	USB A TYPE FEMALE DIP4P BK R/A USB-101		G480040001010S	1	
JK4401	963643101120S	PHONE (YUQIU) D6.5 9P SILVER PJ-612A-9		G402PJ612A09YS	1	
JP4402,4403	nsp	JUMPER (0.6/52MM)		L045084006040S	2	
JP4496,4497	nsp	JUMPER (0.6/52MM)		L045084006040S	2	
LED4406,4407	963263012110S	BL-BUF4V5K-1-AV-FP3.5 3PI RED 5MM-REEL		K500032000160S	2	
LED4408	963263100510S	WEJ3290W-R2H0-BA 3PI RED/YELLOW GREEN BI-COLOR		K500032451010S	1	
SW4400-4409	00D963009530S	SKHV10910D01 KB581/LG 160G		G1800405000010S	10	
VEC4400	963667012360S	EC16B24T01D4ZZZ 24PLUSE 360° L=25MM		G121162400060S	1	
VEC4401	00D9630387408	EC16B24SO-ZZZ L=25MM CLICK=24 TORQUE=100-300		G121162400070S	1	
★	nsp	SR5006U1B(MARANTZ) SPTH t0.5(CMD1A793) A4/FLT		4320211106000S	1	
★	nsp	() NITTO #500,10MM*50M DOUBLE		A710000520000S	0.03	

## VIDEO PCB ASS'Y

※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 : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
<b>SEMICONDUCTORS GROUP</b>						
D4210-4212	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	3	
D4703	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1	
IC4700	00D2631286903	PQ120DNA1ZPH 12V 1A SC-63		J126120010010S	1	
IC4701	236810090504S	ILX3232D 3V3 RS232 INTERFACE TRANSCEIVER SOP16		J046323200020S	1	
IC5000	232810005504S	BD7628F-E2 2CH VIDEO AMP SOP8P		J127762800010S	1	
IC5001	963239100770S	TC4051BF SINGLE 8CH MUX/DEMUX SOP16		J0404051011110S	1	
IC5003	963235100630S	NJM2586AVC3 VIDEO SWITCH SSO20-C3		J171258600020S	1	
Q4200,4201	943214500030S	INC2001AC1 0.2W/SC-59 ISAHAYA		J522020011210S	2	
Q4204	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	1	
Q4205	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q4206,4207	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	2	
Q4208	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q4209-4211	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	3	
Q4213	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q4215,4216	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	2	
ZD4200	963202500290D	ZJ3.6B-0.5W/5MA-52MM SEMTECH		K06003R644522S	1	
ZD4700	963202500400S	ZJ16B-0.5W/5MA-52MM SEMTECH		K06016R044522S	1	
<b>RESISTOR GROUP</b>						
R4200,4201	nsp	220-J,1/16W-1608REEL		C20002216M160S	2	
R4202,4203	nsp	100K-J,1/16W-1608REEL		C20001046M160S	2	
R4212,4213	nsp	100K-J,1/16W-1608REEL		C20001046M160S	2	
R4222	nsp	470-J,1/16W-1608REEL		C20004716M160S	1	
R4223,4224	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2	
R4225	nsp	470-J,1/16W-1608REEL		C20004716M160S	1	
R4238,4239	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R4240	nsp	470K-J,1/16W-1608REEL		C20004746M160S	1	
R4241	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1	
R4242,4243	nsp	470K-J,1/16W-1608REEL		C20004746M160S	2	
R4258	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R4291	nsp	820-J,1/16W-1608REEL		C20008216M160S	1	
R4295,4296	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2	
R4297,4298	nsp	1K-J,1/5W-52RE-AX		C00001026P520S	2	
R4299	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1	
R4300	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R4301	nsp	1K-J,1/5W-52RE-AX		C00001026P520S	1	
R4302-4305	nsp	470K-J,1/16W-1608REEL		C20004746M160S	4	
R4708,4709	nsp	1K-J,1/16W-1608REEL		C20001026M160S	2	
R4710	nsp	0-J,1/16W-1608REEL		C20000006M160S	1	
R4711	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1	
R4714	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1	
R5000	nsp	820-D,1/16W-1608REEL		C20008211M160S	1	
R5001	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1	
R5002	nsp	75-J,1/16W-1608REEL		C20007506M160S	1	
R5003	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R5005	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R5006	nsp	680-D,1/16W-1608REEL		C20006811M160S	1	
R5007	nsp	75-J,1/16W-1608REEL		C20007506M160S	1	
R5008-5010	nsp	10K-J,1/16W-1608REEL		C20001036M160S	3	
R5011	nsp	75-J,1/16W-1608REEL		C20007506M160S	1	
R5013,5014	nsp	75-J,1/16W-1608REEL		C20007506M160S	2	
R5015,5016	nsp	150-J,1/16W-1608REEL		C20001516M160S	2	
R5017,5018	nsp	160-J,1/16W-1608REEL		C20001616M160S	2	
R5019,5020	nsp	150-J,1/16W-1608REEL		C20001516M160S	2	
R5021,5022	nsp	160-J,1/16W-1608REEL		C20001616M160S	2	
R5023,5024	nsp	150-J,1/16W-1608REEL		C20001516M160S	2	
R5025,5026	nsp	160-J,1/16W-1608REEL		C20001616M160S	2	
R5033-5035	nsp	75-J,1/16W-1608REEL		C20007506M160S	3	
R5036	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R5037-5039	nsp	75-J,1/16W-1608REEL		C20007506M160S	3	
<b>CAPACITORS GROUP</b>						
C4200,4201	nsp	COG330PF-J/50V-1608REEL		D010331167160S	2	
C4202,4203	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	2	
C4207	nsp	X7R 0.01UF-K/50V-1608REEL		D010103777160S	1	
C4220	00D9630244606	0.1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040R10087080S	1	
C4221,4222	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	2	
C4247	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4248-4251	00D9630244606	0.1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040R10087080S	4	
C4702,4703	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2	
C4704-4706	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	3	
C4707	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4711,4712	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	2	
C4716,4717	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	2	
C4718,4719	nsp	COG33PF-J/50V-1608REEL		D010330167160S	2	
C5000	00D9630293709	100UF-M/10V,5*11-5RE.SMS SY		D040101082070S	1	
C5001	nsp	X7R 0.01UF-K/50V-1608REEL		D010103777160S	1	
C5002,5003	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	2	
C5004	nsp	X7R 0.01UF-K/50V-1608REEL		D010103777160S	1	
C5006,5007	nsp	X7R 0.01UF-K/50V-1608REEL		D010103777160S	2	
C5008-5010	nsp	COG68PF-J/50V-1608REEL		D010680167160S	3	
C5011	00D9630293709	100UF-M/10V,5*11-5RE.SMS SY		D040101082070S	1	
C5012	nsp	COG68PF-J/50V-1608REEL		D010680167160S	1	
C5013,5014	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	2	
C5015,5016	nsp	COG68PF-J/50V-1608REEL		D010680167160S	2	
C5017,5018	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	2	
C5019,5020	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	2	
C5021	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	1	
C5022	00D9630293709	100UF-M/10V,5*11-5RE.SMS SY		D040101082070S	1	
C5023-5025	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	3	
C5048	963134502400S	MI-0.1UF-J/50V-5RE		D020104167050S	1	
C5051	963134502400S	MI-0.1UF-J/50V-5RE		D020104167050S	1	
<b>OTHER PARTS GROUP</b>						
CLAMP300	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)WIRE(SOLDER)		4330000120000S	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
CN4002	nsp	C125Z2-15 15P BtoB SOCKET(FEMALE) P=1.25MM	L109012521520S	1		
CN4003	nsp	C125Z2-19 19P BtoB SOCKET(FEMALE) P=1.25MM	L109012521920S	1		
CN4702	nsp	C125Z2-07 7P BtoB SOCKET(FEMALE) P=1.25MM	L109012520720S	1		
CN5000,5001	nsp	C125Z2-13 13P BtoB SOCKET(FEMALE) P=1.25MM	L109012521320S	2		
CN5003	nsp	C125Z2-17 17P BtoB SOCKET(FEMALE) P=1.25MM	L109012521720S	1		
CN5004	nsp	C125Z2-07 7P BtoB SOCKET(FEMALE) P=1.25MM	L109012520720S	1		
CP3401	nsp	C125Z1-13 13P BtoB HEADER(MALE) P=1.25MM	L109012511320S	1		
CP3403	nsp	C125Z1-21 21P BtoB HEADER(MALE) P=1.25MM	L109012512120S	1		
CP3404	nsp	C125Z1-13 13P BtoB HEADER(MALE) P=1.25MM	L109012511320S	1		
CP4605	nsp	C125Z1-17 17P BtoB HEADER(MALE) P=1.25MM	L109012511720S	1		
CP5000,5001	nsp	C125Z1-13 13P BtoB HEADER(MALE) P=1.25MM	L109012511320S	2		
CP5003	nsp	5268-08A 8P ANGLE	L102526808010S	1		
CP5004	nsp	C125Z1-07 7P BtoB HEADER(MALE) P=1.25MM	L109012510720S	1		
BKT5002,5003	nsp	AVR133(HARMAN) BURRING HOLE SPTE 0.8t/SCREW	4010210196100S	2		
! F5000	963652500120S	T1.25A/250V-IVBSUCPCcUR S506	N751501251160S	1		
F5000A	nsp	PI5.2-REEL	G645000050010S	1		
F5000B	nsp	PI5.2-REEL	G645000050010S	1		
! F5001	963652010500S	T1.6A/250V-IVBSUCPCcUR S506	N751501601160S	1		
F5001A	nsp	PI5.2-REEL	G645000050010S	1		
F5001B	nsp	PI5.2-REEL	G645000050010S	1		
! F5002	963652010500S	T1.6A/250V-IVBSUCPCcUR S506	N751501601160S	1		
F5002A	nsp	PI5.2-REEL	G645000050010S	1		
F5002B	nsp	PI5.2-REEL	G645000050010S	1		
! F5003	963652010500S	T1.6A/250V-IVBSUCPCcUR S506	N751501601160S	1		
F5003A	nsp	PI5.2-REEL	G645000050010S	1		
F5003B	nsp	PI5.2-REEL	G645000050010S	1		
! F5004	963652010500S	T1.6A/250V-IVBSUCPCcUR S506	N751501601160S	1		
F5004A	nsp	PI5.2-REEL	G645000050010S	1		
F5004B	nsp	PI5.2-REEL	G645000050010S	1		
J5002-5005	nsp	JUMPER (0.6/52MM)	L045084006040S	4		
J5007	nsp	JUMPER (0.6/52MM)	L045084006040S	1		
J5009-5053	nsp	JUMPER (0.6/52MM)	L045084006040S	45		
JACK4700	00D9630244703	EARPHONE JACK PJ-308-02	G40130802000YS	1		
JACK4702	00D2051305008	9P FEMALE D-SUB DS03-09 ADD SCREW(4.8*11.8)BLACK	L103090090030S	1		
JACK5001-5003	963643101630D	RCA-303B1-08(GN,BL,RD)	G606303B1080YS	3		
JACK5004	00D9630225803	RCA-206B-05(RD,WH)	G601206B0500YS	1		
JACK5006	963643101620D	RCA-303B1-01(YL,YL,YL)	G606303B1010YS	1		
JP212	nsp	0-J,1/8W-3216REEL	C200000061300S	1		

## INPUT PCB ASS'Y

※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 : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
<b>SEMICONDUCTORS GROUP</b>						
IC4200	96323900650S	R2A15218FP-U00R 8CH-VOL WITH 11 INPUT QFP100P		J084152180010S	1	
IC4206	00D2623727904	NJW1194V-TE1 2CH-ELECT VOL 4IN-1OUT, TONE SSOP32		J084119400010S	1	
<b>RESISTOR GROUP</b>						
R4205-4211	nsp	470-J,1/16W-1608REEL		C20004716M160S	7	
R4216-4221	nsp	820K-J,1/16W-1608REEL		C20008246M160S	6	
R4236	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1	
R4244,4245	nsp	470K-J,1/16W-1608REEL		C20004746M160S	2	
R4248	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R4249-4252	nsp	470K-J,1/16W-1608REEL		C20004746M160S	4	
R4257	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R4259-4262	nsp	100K-J,1/16W-1608REEL		C20001046M160S	4	
R4263-4270	nsp	10K-J,1/16W-1608REEL		C20001036M160S	8	
R4288-4290	nsp	0-J,1/16W-1608REEL		C20000006M160S	3	
R4292-4294	nsp	0-J,1/16W-1608REEL		C20000006M160S	3	
R4326	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R4332	nsp	470K-J,1/16W-1608REEL		C20004746M160S	1	
R4336	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1	
R4341	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	1	
R4344	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1	
R4347	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	1	
R4348,4349	nsp	100K-J,1/16W-1608REEL		C20001046M160S	2	
R4354	nsp	0-J,1/16W-1608REEL		C20000006M160S	1	
R4359	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R4360	nsp	0-J,1/16W-1608REEL		C20000006M160S	1	
R4364	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R4370-4376	nsp	100-J,1/16W-1608REEL		C20001016M160S	7	
R4550	nsp	470-J,1/16W-1608REEL		C20004716M160S	1	
R4551,4552	nsp	820K-J,1/16W-1608REEL		C20008246M160S	2	
R4553	nsp	470K-J,1/16W-1608REEL		C20004746M160S	1	
R4554	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1	
<b>CAPACITORS GROUP</b>						
C4204	nsp	COG330PF-J/50V-1608REEL		D010331167160S	1	
C4209-4211	nsp	COG330PF-J/50V-1608REEL		D010331167160S	3	
C4225-4228	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	4	
C4229-4231	963134502430S	47UF-M/63V,6.3*11-5RE.RA3-63V470MF3#8P-T2		D040470088210S	3	
C4232-4236	963134502370S	47UF-M/16V,5*11-5RE.SMS SY		D040470083080S	5	
C4237-4239	00D2544574919	47UF-M/50V,6.3*11-5RE.SMS SY (Pb Free)		D040470087070S	3	
C4240-4244	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	5	
C4245,4246	963134501890S	220UF-M/16V,8*11-5-5RE.SMS-SY		D040221083090S	2	
C4269	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4275	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4280	nsp	X7R3300PF-K/50V-1608REEL		D011332777160S	1	
C4281	nsp	33UF-M/16V,5*11-5RE.SMS SY		D040330083050S	1	
C4282	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C4283	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4284	00D9639006476	4.7UF-M/50V,5*11-5RE.SMS SY		D0404R7087250S	1	
C4287	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4288	00D9639006476	4.7UF-M/50V,5*11-5RE.SMS SY		D0404R7087250S	1	
C4290	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C4293	nsp	33UF-M/16V,5*11-5RE.SMS SY		D040330083050S	1	
C4294	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4295	nsp	X7R3300PF-K/50V-1608REEL		D011332777160S	1	
C4296	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4304	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4550-4553	nsp	COG330PF-J/50V-1608REEL		D010331167160S	4	
C4554	nsp	0-J,1/16W-1608REEL		C20000006M160S	1	
<b>OTHER PARTS GROUP</b>						
CN4006	nsp	C125Z2-11 11P BtoB SOCKET(FEMALE) P=1.25MM		L109012521120S	1	
CN4205	nsp	C125Z2-15 15P BtoB SOCKET(FEMALE) P=1.25MM		L109012521520S	1	
CN4700	nsp	C125Z2-13 13P BtoB SOCKET(FEMALE) P=1.25MM		L109012521320S	1	
CN4701	nsp	C125Z2-11 11P BtoB SOCKET(FEMALE) P=1.25MM		L109012521120S	1	
CN4703	nsp	C125Z2-09 9P BtoB SOCKET(FEMALE) P=1.25MM		L109012520920S	1	
CP4200	nsp	C125Z1-25 25P BtoB HEADER(MALE) P=1.25MM		L109012512520S	1	
CP4201	nsp	C125Z1-31 31P BtoB HEADER(MALE) P=1.25MM		L109012513120S	1	
CP4202	nsp	C125Z1-15 15P BtoB HEADER(MALE) P=1.25MM		L109012511520S	1	
CP4203	nsp	C125Z1-07 7P BtoB HEADER(MALE) P=1.25MM		L109012510720S	1	
CP4204	nsp	C125Z1-17 17P BtoB HEADER(MALE) P=1.25MM		L109012511720S	1	
JACK4201,4202	00D9630132103	RCA-405B-04(WH,WH,RD,RD)-YUQIU		G602405B0400YS	2	

SMPS PCB ASS'Y

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

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NOTE:The symbols in the column Remarks indicate the following destinations.

U : North America model N : Europe model K : China model F : Japan model  
 B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
<b>SEMICONDUCTORS GROUP</b>						
D4140-4148	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	9	
D4149	963204500210D	S30SC6MT 60V 30A TO-3P(MTO-3PT) SHINDENGEN		K120300600010S	1	
D4150	00D276040190S	1SS133-DO34-AXIAL LRC		K000013300040S	1	
! IC4140	231010091708S	TOP258MG SDIP10 OFF-LINE POWER SUPPLY IC		J122258001010S	1	
! IC4142	00D2623047008	PC123X2YFZ (DIP4P SHARP)		K614123000010S	1	
IC4143	212050010508S	KIA2431AP,0.7W TO-92		J126243118010S	1	
ZD4147-4149	963202500370D	ZJ39B-0.5W/5MA-52MM SEMTECH	U	K06039R044522S	3	
ZD4150-4157	963202500350D	ZJ22B-0.5W/5MA-52MM SEMTECH		K06022R044522S	8	
ZD4158	963202500370D	ZJ39B-0.5W/5MA-52MM SEMTECH		K06039R044522S	1	
ZD4159	963202500320D	ZJ5.6B-0.5W/5MA-52MM SEMTECH		K06005R644522S	1	
ZD4160	00D9600095704	MTZJ6.2B-0.5W/5MA-52MM	U	K06006R244520S	1	
ZD4160	00D2760665903	MTZJ16B-0.5W/5MA-52MM	N/K	K06016R044520S	1	
<b>RESISTOR GROUP</b>						
R4141,4142	nsp	1M-J,1/5W-52RE-AX		C00001056P520S	2	
R4143	nsp	330K-J,1/5W-52RE-AX		C00003346P520S	1	
R4145	nsp	1M-J,1/16W-1608REEL		C20001056M160S	1	
R4147	nsp	270K-J,1/16W-1608REEL	U	C20002746M160S	1	
R4147	nsp	56K-J,1/16W-1608REEL	N/K	C20005636M160S	1	
R4148,4149	nsp	2.2M-J,1/5W-52RE-AX	U	C00002256P520S	2	
R4150	nsp	1M-J,1/5W-52RE-AX	U	C00001056P520S	1	
R4151	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1	
R4152	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1	
R4153	nsp	6.8-J,1/5W-52RE-AX		C0006R806P520S	1	
R4154	nsp	10-J,1/16W-1608REEL		C20001006M160S	1	
R4155	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R4156	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	1	
R4157	nsp	56-J,1/5W-52RE-AX		C00005606P520S	1	
R4158	nsp	3.3K-J,1/5W-52RE-AX		C00003326P520S	1	
R4159	nsp	5.6K-J,1/5W-52RE-AX		C00005626P520S	1	
R4160	nsp	22K-F,1/16W-1608REEL		C20002234M161S	1	
R4161	00D2472041967	6.8K-D,1/16W-1608REEL		C20006821M160S	1	
R4164	nsp	1M-J,1/5W-52RE-AX		C00001056P520S	1	
! RL Y4140	963682100290D	JZC-36FD/005-HLT 23.8*9.5*24.5mm		G680060103030S	1	
<b>CAPACITORS GROUP</b>						
! C4140,4141	963134011730S	DE1B3KX471KB4BL01 AC250V BULK MURATA		D00847127H010S	2	
! C4142	963132011940S	DE2F3KY103MB3BM02 AC250V BULK MURATA		D008103589010S	1	
! C4143	nsp	0.1UF-K/275V BULK X2 MPX104K3ID2 P=15MM CARLI		D02110407H010S	1	
C4145-4147	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	3	
! C4148,4149	963132011940S	DE2F3KY103MB3BM02 AC250V BULK MURATA	N/K	D008103589010S	1	
C4150	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C4151	943134501590S	100UF-M/200V,16*20 BULK NHA SY	U	D04110108G000S	1	
C4151	963134010200S	100UF-M/400V,18*31.5 BULK NHA SY	N/K	D04110108K000S	1	
C4152	963134010210S	47UF-M/25V,5*11-5RE NXA SY		D041470084050S	1	
C4153	963132010120S	DEHR33A102KB2B		D00810207Q010S	1	
C4154	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C4155	963134010190S	10UF-M/50V,5*11-5RE NXA SY		D041100087050S	1	
! C4156	963132011930S	DE1E3KX222MB4BL01 AC250V BULK MURATA		D00822248H010S	1	
C4159,4160	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	2	
C4161	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1	
C4162	963134010220S	5600UF-M/6.3V,12.5*35 NXA SY		D041562081001S	1	
C4164,4165	963134010220S	5600UF-M/6.3V,12.5*35 NXA SY		D041562081001S	2	
C4166	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
<b>OTHER PARTS GROUP</b>						
CN4141	nsp	330MM/5P SMH250-05=CKM2509HV-05 WH1007#20		L000331050110S	1	
! CP4142	nsp	LWBP1143-02P 7.92MM HEADER,VER.2CKT		L108011430210S	1	
BKT4141	nsp	AVR133(HARMAN) BURREING HOLE SPTE 0.8T/SCREW		4010210196100S	1	
BKT4142	nsp	AVR3300(E3)(DENON) SPTE 0.8T/SCREW		4010210196000S	1	
! F4140	963652010510S	T2A/250V-IVBSUCPCcUR S506	U	N751502001160S	1	
! F4140	963652010500S	T1.6A/250V-IVBSUCPCcUR S506	N/K	N751501601160S	1	
! F4141	963652010520S	T6.3A/250V-IVBSUCPCcUR S506	U	N751506301160S	1	
! F4141	963652010910S	T3.15A/250V-IVBSUCPCcUR S506	N/K	N751503151160S	1	
FC4140A	nsp	PI5.2-REEL		G645000050010S	1	
FC4140B,4141	nsp	PI5.2-REEL		G645000050010S	2	
FC4141B	nsp	PI5.2-REEL		G645000050010S	1	
J4145	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
J4150	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
J4152	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
J4154,4155	nsp	JUMPER (0.6/52MM)		L045084006040S	2	
! JK4140	963641011240S	AC0152PPA66 AC INLET 2P_REV1.0 CCC		G4300152P0001S	1	
JP4140,4141	nsp	JUMPER (0.6/52MM)		L045084006040S	2	
! L4140	963111100420D	SQ2014 27mH VERTICAL TYPE LINE FILTER	U	D320201405510S	1	
! L4140	963111100470S	SQ2014 50mH VERTICAL TYPE LINE FILTER	N/K	D320201405000S	1	
! T4140	963102100360S	EER2834 SW TRANSFORMER GAP BONDING		E060283405530S	1	
TR4140	963222500150D	KMB2D0N60SA N-CH MOSFET 60V SOT23		J543206005510S	1	
TR4142	963213500170D	KTC3198G,0.6W/TO92-REEL		J5023198G0000S	1	
★	nsp	AVRE400BK3(DENON) SPTE 0.3T /CASE		3070210596100S	1	

## AMP PCB ASS'Y

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REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
<b>SEMICONDUCTORS GROUP</b>						
D401-442	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	42	
D457,458	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	2	
Q401,402	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	2	
Q403	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J520254010010S	1	
Q405	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J520254010010S	1	
Q406	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J522255510010S	1	
Q407,408	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	2	
Q411,412	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	2	
Q413,414	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	2	
Q415	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J520254010010S	1	
Q418	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J522255510010S	1	
Q419,420	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	2	
Q423,424	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	2	
Q425,426	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	2	
Q427	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J520254010010S	1	
Q430	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J522255510010S	1	
Q431,432	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	2	
Q435,436	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	2	
Q437,438	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	2	
Q439	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J520254010010S	1	
Q442	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J522255510010S	1	
Q443,444	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	2	
Q447,448	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	2	
Q449,450	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	2	
Q451	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J520254010010S	1	
Q454	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J522255510010S	1	
Q455,456	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	2	
Q459,460	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	2	
Q461,462	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	2	
Q463	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J520254010010S	1	
Q466	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J522255510010S	1	
Q467,468	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	2	
Q471,472	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	2	
Q473,474	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	2	
Q475	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J520254010010S	1	
Q478	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J522255510010S	1	
Q479,480	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	2	
Q483,484	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	2	
ZD401	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1	
ZD402,403	963202500410S	ZJ4.7B-0.5W/5MA-52MM SEMTECH		K06004R744522S	2	
ZD404	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1	
ZD405,406	963202500410S	ZJ4.7B-0.5W/5MA-52MM SEMTECH		K06004R744522S	2	
ZD407	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1	
ZD408,409	963202500410S	ZJ4.7B-0.5W/5MA-52MM SEMTECH		K06004R744522S	2	
ZD410	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1	
ZD411,412	963202500410S	ZJ4.7B-0.5W/5MA-52MM SEMTECH		K06004R744522S	2	
ZD413	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1	
ZD414,415	963202500410S	ZJ4.7B-0.5W/5MA-52MM SEMTECH		K06004R744522S	2	
ZD416	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1	
ZD417,418	963202500410S	ZJ4.7B-0.5W/5MA-52MM SEMTECH		K06004R744522S	2	
ZD419	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1	
ZD420,421	963202500410S	ZJ4.7B-0.5W/5MA-52MM SEMTECH		K06004R744522S	2	
<b>RESISTOR GROUP</b>						
R401	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1	
R402	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1	
R403	nsp	270-J,1W-R.REEL		C060027165060S	1	
R405	nsp	270-J,1W-R.REEL		C060027165060S	1	
R406	963252100150S	DHPTHF1608 471P 115T SMD PTC THERMISTOR		F320471001150S	1	
R407	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R409	nsp	150K-J,1/5W-52RE-AX		C00001546P520S	1	
R410	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
R411	nsp	680K-J,1/5W-52RE-AX		C00006846P520S	1	
R412	nsp	15K-J,1/5W-52RE-AX		C00001536P520S	1	
R413,414	nsp	10K-J,1/5W-52RE-AX		C00001036P520S	2	
R415	963125012630S	22-J,1W-5REEL		C060022065050S	1	
R416	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1	
R417	nsp	180K-J,1/16W-1608REEL		C20001846M160S	1	
R418	963125010690S	15K-J,2W-R.REEL		C060015366050S	1	
R419	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1	
R420	nsp	220K-J,1/5W-52RE-AX		C00002246P520S	1	
R421	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1	
R422	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1	
R423	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R424,425	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2	
R426	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1	
R427	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1	
R428	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
R429	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1	
R430,431	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2	
R432	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1	
R433	nsp	220K-J,1/5W-52RE-AX		C00002246P520S	1	
R434	nsp	3.3K-J,1W-R.REEL		C060033265050S	1	
R435	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1	
R436	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1	
R437	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1	
R438	nsp	220-J,1/5W-52RE-AX		C00002216P520S	1	
R439	963125012630S	22-J,1W-5REEL		C060022065050S	1	
R440	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1	
R441,442	nsp	1K-J,1W-R.REEL		C060010265050S	2	
R443	nsp	270-J,1W-R.REEL		C060027165060S	1	
R444	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1	
R446	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R447,448	nsp	270-J,1W-R.REEL	C060027165060S	2		
R449	963252100160S	DHPH1608 471P 95T SMD PTC THERMISTOR	F320471000950S	1		
R450	963252100150S	DHPH1608 471P 115T SMD PTC THERMISTOR	F320471001150S	1		
R452	nsp	150K-J,1/5W-52RE-AX	C00001546P520S	1		
R453	nsp	JUMPER (0.6/52MM)	L045084006040S	1		
R454	nsp	680K-J,1/5W-52RE-AX	C00006846P520S	1		
R455	nsp	15K-J,1/5W-52RE-AX	C00001536P520S	1		
R456,457	nsp	10K-J,1/5W-52RE-AX	C00001036P520S	2		
R458	963125012630S	22-J,1W-5REEL	C060022065050S	1		
R459	nsp	22K-J,1/5W-52RE-AX	C00002236P520S	1		
R460	nsp	180K-J,1/16W-1608REEL	C20001846M160S	1		
R461	963125010690S	15K-J,2W-R.REEL	C060015366050S	1		
R462	nsp	22K-J,1/5W-52RE-AX	C00002236P520S	1		
R463	nsp	220K-J,1/5W-52RE-AX	C00002246P520S	1		
R464	963252100160S	DHPH1608 471P 95T SMD PTC THERMISTOR	F320471000950S	1		
R465	nsp	470-J,1/5W-52RE-AX	C00004716P520S	1		
R466	nsp	10K-J,1/16W-1608REEL	C20001036M160S	1		
R467,468	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL	N113136647820S	2		
R469	nsp	5.6K-J,1/16W-1608REEL	C20005626M160S	1		
R471	nsp	1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R472	nsp	JUMPER (0.6/52MM)	L045084006040S	1		
R473	nsp	33K-J,1/5W-52RE-AX	C00003336P520S	1		
R474,475	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL	N113136647820S	2		
R476	nsp	2.7K-J,1/5W-52RE-AX	C00002726P520S	1		
R477	nsp	220K-J,1/5W-52RE-AX	C00002246P520S	1		
R478	nsp	3.3K-J,1W-R.REEL	C060033265050S	1		
R479	nsp	560-J,1/5W-52RE-AX	C00005616P520S	1		
R480	nsp	470K-J,1/5W-52RE-AX	C00004746P520S	1		
R481	nsp	33K-J,1/5W-52RE-AX	C00003336P520S	1		
R482	nsp	220-J,1/5W-52RE-AX	C00002216P520S	1		
R483	963125012630S	22-J,1W-5REEL	C060022065050S	1		
R484	nsp	470-J,1/5W-52RE-AX	C00004716P520S	1		
R485,486	nsp	1K-J,1W-R.REEL	C060010265050S	2		
R487	nsp	270-J,1W-R.REEL	C060027165060S	1		
R488	nsp	1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R490	nsp	100K-J,1/5W-52RE-AX	C00001046P520S	1		
R491,492	nsp	270-J,1W-R.REEL	C060027165060S	2		
R494	963252100150S	DHPH1608 471P 115T SMD PTC THERMISTOR	F320471001150S	1		
R496	nsp	150K-J,1/5W-52RE-AX	C00001546P520S	1		
R497	nsp	JUMPER (0.6/52MM)	L045084006040S	1		
R498	nsp	680K-J,1/5W-52RE-AX	C00006846P520S	1		
R499	nsp	15K-J,1/5W-52RE-AX	C00001536P520S	1		
R500,501	nsp	10K-J,1/16W-1608REEL	C20001036M160S	2		
R502	963125012630S	22-J,1W-5REEL	C060022065050S	1		
R503	nsp	22K-J,1/5W-52RE-AX	C00002236P520S	1		
R504	nsp	180K-J,1/16W-1608REEL	C20001846M160S	1		
R505	963125010690S	15K-J,2W-R.REEL	C060015366050S	1		
R506	nsp	22K-J,1/5W-52RE-AX	C00002236P520S	1		
R507	nsp	220K-J,1/5W-52RE-AX	C00002246P520S	1		
R509	nsp	470-J,1/5W-52RE-AX	C00004716P520S	1		
R510	nsp	10K-J,1/16W-1608REEL	C20001036M160S	1		
R511,512	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL	N113136647820S	2		
R513	nsp	5.6K-J,1/16W-1608REEL	C20005626M160S	1		
R514	nsp	1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R515	nsp	JUMPER (0.6/52MM)	L045084006040S	1		
R516	nsp	33K-J,1/5W-52RE-AX	C00003336P520S	1		
R517,518	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL	N113136647820S	2		
R519	nsp	2.7K-J,1/5W-52RE-AX	C00002726P520S	1		
R520	nsp	220K-J,1/5W-52RE-AX	C00002246P520S	1		
R521	nsp	3.3K-J,1W-R.REEL	C060033265050S	1		
R522	nsp	560-J,1/5W-52RE-AX	C00005616P520S	1		
R523	nsp	470K-J,1/5W-52RE-AX	C00004746P520S	1		
R524	nsp	33K-J,1/5W-52RE-AX	C00003336P520S	1		
R525	nsp	220-J,1/5W-52RE-AX	C00002216P520S	1		
R526	963125012630S	22-J,1W-5REEL	C060022065050S	1		
R527	nsp	470-J,1/5W-52RE-AX	C00004716P520S	1		
R528,529	nsp	1K-J,1W-R.REEL	C060010265050S	2		
R530	nsp	270-J,1W-R.REEL	C060027165060S	1		
R531	nsp	1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R532	nsp	100K-J,1/5W-52RE-AX	C00001046P520S	1		
R533	nsp	270-J,1W-R.REEL	C060027165060S	1		
R535	nsp	270-J,1W-R.REEL	C060027165060S	1		
R536	nsp	1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R537	963252100150S	DHPH1608 471P 115T SMD PTC THERMISTOR	F320471001150S	1		
R539	nsp	150K-J,1/5W-52RE-AX	C00001546P520S	1		
R540	nsp	JUMPER (0.6/52MM)	L045084006040S	1		
R541	nsp	680K-J,1/5W-52RE-AX	C00006846P520S	1		
R542	nsp	15K-J,1/5W-52RE-AX	C00001536P520S	1		
R543,544	nsp	10K-J,1/5W-52RE-AX	C00001036P520S	2		
R545	963125012630S	22-J,1W-5REEL	C060022065050S	1		
R546	nsp	22K-J,1/5W-52RE-AX	C00002236P520S	1		
R547	nsp	180K-J,1/16W-1608REEL	C20001846M160S	1		
R548	963125010690S	15K-J,2W-R.REEL	C060015366050S	1		
R549	nsp	22K-J,1/5W-52RE-AX	C00002236P520S	1		
R550	nsp	220K-J,1/5W-52RE-AX	C00002246P520S	1		
R552	nsp	470-J,1/5W-52RE-AX	C00004716P520S	1		
R553	nsp	10K-J,1/16W-1608REEL	C20001036M160S	1		
R554,555	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL	N113136647820S	2		
R556	nsp	5.6K-J,1/16W-1608REEL	C20005626M160S	1		
R557	nsp	1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R558	nsp	JUMPER (0.6/52MM)	L045084006040S	1		
R559	nsp	33K-J,1/5W-52RE-AX	C00003336P520S	1		
R560	nsp	2.7K-J,1/5W-52RE-AX	C00002726P520S	1		
R561,562	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL	N113136647820S	2		
R563	nsp	220K-J,1/5W-52RE-AX	C00002246P520S	1		
R564	nsp	3.3K-J,1W-R.REEL	C060033265050S	1		
R565	nsp	560-J,1/5W-52RE-AX	C00005616P520S	1		
R566	nsp	470K-J,1/5W-52RE-AX	C00004746P520S	1		
R567	nsp	33K-J,1/5W-52RE-AX	C00003336P520S	1		
R568	nsp	220-J,1/5W-52RE-AX	C00002216P520S	1		
R569	963125012630S	22-J,1W-5REEL	C060022065050S	1		
R570	nsp	470-J,1/5W-52RE-AX	C00004716P520S	1		

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R571,572	nsp	1K-J,1W-R.REEL		C060010265050S	2	
R573	nsp	270-J,1W-R.REEL		C060027165060S	1	
R574	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1	
R575	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1	
R576	nsp	270-J,1W-R.REEL		C060027165060S	1	
R578	nsp	270-J,1W-R.REEL		C060027165060S	1	
R580	963252100150S	DHPTHF1608 471P 115T SMD PTC THERMISTOR		F320471001150S	1	
R582	nsp	150K-J,1/5W-52RE-AX		C00001546P520S	1	
R583	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
R584	nsp	680K-J,1/5W-52RE-AX		C00006846P520S	1	
R585	nsp	15K-J,1/5W-52RE-AX		C00001536P520S	1	
R586,587	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2	
R588	963125012630S	22-J,1W-5REEL		C060022065050S	1	
R589	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1	
R590	nsp	180K-J,1/16W-1608REEL		C20001846M160S	1	
R591	963125010690S	15K-J,2W-R.REEL		C060015366050S	1	
R592	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1	
R593	nsp	220K-J,1/5W-52RE-AX		C00002246P520S	1	
R595	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1	
R596	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R597,598	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2	
R599	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1	
R600	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1	
R601	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
R602	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1	
R603,604	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2	
R605	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1	
R606	nsp	220K-J,1/5W-52RE-AX		C00002246P520S	1	
R607	nsp	3.3K-J,1W-R.REEL		C060033265050S	1	
R608	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1	
R609	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1	
R610	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1	
R611	nsp	220-J,1/5W-52RE-AX		C00002216P520S	1	
R612	963125012630S	22-J,1W-5REEL		C060022065050S	1	
R613	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1	
R614,615	nsp	1K-J,1W-R.REEL		C060010265050S	2	
R616	nsp	270-J,1W-R.REEL		C060027165060S	1	
R617	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1	
R618	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1	
R619	nsp	270-J,1W-R.REEL		C060027165060S	1	
R621	nsp	270-J,1W-R.REEL		C060027165060S	1	
R623	963252100150S	DHPTHF1608 471P 115T SMD PTC THERMISTOR		F320471001150S	1	
R625	nsp	150K-J,1/5W-52RE-AX		C00001546P520S	1	
R626	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
R627	nsp	680K-J,1/5W-52RE-AX		C00006846P520S	1	
R628	nsp	15K-J,1/5W-52RE-AX		C00001536P520S	1	
R629,630	nsp	10K-J,1/5W-52RE-AX		C00001036P520S	2	
R631	963125012630S	22-J,1W-5REEL		C060022065050S	1	
R632	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1	
R633	nsp	180K-J,1/16W-1608REEL		C20001846M160S	1	
R634	963125010690S	15K-J,2W-R.REEL		C060015366050S	1	
R635	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1	
R636	nsp	220K-J,1/5W-52RE-AX		C00002246P520S	1	
R638	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1	
R639	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R640,641	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2	
R642	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1	
R643	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1	
R644	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
R645	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1	
R646,647	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2	
R648	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1	
R649	nsp	220K-J,1/5W-52RE-AX		C00002246P520S	1	
R650	nsp	3.3K-J,1W-R.REEL		C060033265050S	1	
R651	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1	
R652	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1	
R653	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1	
R654	nsp	220-J,1/5W-52RE-AX		C00002216P520S	1	
R655	963125012630S	22-J,1W-5REEL		C060022065050S	1	
R656	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1	
R657,658	nsp	1K-J,1W-R.REEL		C060010265050S	2	
R659	nsp	270-J,1W-R.REEL		C060027165060S	1	
R660	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1	
R661	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1	
R662	nsp	270-J,1W-R.REEL		C060027165060S	1	
R664	nsp	270-J,1W-R.REEL		C060027165060S	1	
R666	963252100150S	DHPTHF1608 471P 115T SMD PTC THERMISTOR		F320471001150S	1	
R668	nsp	150K-J,1/5W-52RE-AX		C00001546P520S	1	
R669	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
R670	nsp	680K-J,1/5W-52RE-AX		C00006846P520S	1	
R671	nsp	15K-J,1/5W-52RE-AX		C00001536P520S	1	
R672,673	nsp	10K-J,1/5W-52RE-AX		C00001036P520S	2	
R674	963125012630S	22-J,1W-5REEL		C060022065050S	1	
R675	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1	
R676	nsp	180K-J,1/16W-1608REEL		C20001846M160S	1	
R677	963125010690S	15K-J,2W-R.REEL		C060015366050S	1	
R678	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1	
R679	nsp	220K-J,1/5W-52RE-AX		C00002246P520S	1	
R681	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1	
R682	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R683,684	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2	
R685	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1	
R686	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1	
R687	nsp	JUMPER (0.6/52MM)		L045084006040S	1	
R688	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1	
R689,690	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2	
R691	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1	
R692	nsp	220K-J,1/5W-52RE-AX		C00002246P520S	1	
R693	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1	
R694	nsp	3.3K-J,1W-R.REEL		C060033265050S	1	
R695	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1	
R696	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R697	nsp	220-J,1/5W-52RE-AX		C00002216P520S	1	
R698	963125012630S	22-J,1W-5REEL		C060022065050S	1	
R699	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1	
R700,701	nsp	1K-J,1W-R.REEL		C060010265050S	2	
R702	nsp	270-J,1W-R.REEL		C060027165060S	1	
R703-709	nsp	1,2K-J,1/5W-52RE-AX		C00001226P520S	7	
R710-716	nsp	JUMPER (0.6/52MM)		L045084006040S	7	
R717-723	nsp	220-J,1/5W-52RE-AX		C00002216P520S	7	
R724-730	nsp	56K-J,1/16W-1608REEL		C20005636M160S	7	
R731,732	nsp	2,2K-J,1/16W-1608REEL		C20002226M160S	2	
R733,734	nsp	130K-J,1/16W-1608REEL		C20001046M160S	2	
<b>CAPACITORS GROUP</b>						
C401	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C403	nsp	X7R 0.01UF-K/50V-1608REEL		D010103777160S	1	
C405	nsp	COG220PF-J/50V-1608REEL		D010221167160S	1	
C406	963133501540S	ST-0.00022UF-J/100V-5RE		D02022106C050S	1	
C407	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1	
C408	00D2544573994	22UF-M/50V,5*11 RA3-50V220ME3#8P-T2 ELNA		D040220087330S	1	
C409	nsp	B470PF-K/500V-5RE		D00447127D050S	1	
C410	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1	
C411	nsp	B470PF-K/500V-5RE		D00447127D050S	1	
C412	963133501550S	ST-0.00047UF-J/100V-5RE (S&A)		D02047106C060S	1	
C413	nsp	X7R2200PF-K/50V-2012REEL		D01122277200S	1	
C415,416	00D9630234302	10UF-M/100V,6.3*11-5RE.SMS SY		D04010008C050S	2	
C418	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C421	nsp	COG220PF-J/50V-1608REEL		D010221167160S	1	
C422	963133501540S	ST-0.00022UF-J/100V-5RE		D02022106C050S	1	
C423	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1	
C424	00D2544573994	22UF-M/50V,5*11 RA3-50V220ME3#8P-T2 ELNA		D040220087330S	1	
C425	nsp	B470PF-K/500V-5RE		D00447127D050S	1	
C426	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1	
C427	nsp	B470PF-K/500V-5RE		D00447127D050S	1	
C428	963133501550S	ST-0.00047UF-J/100V-5RE (S&A)		D02047106C060S	1	
C429	nsp	X7R2200PF-K/50V-2012REEL		D01122277200S	1	
C431,432	00D9630234302	10UF-M/100V,6.3*11-5RE.SMS SY		D04010008C050S	2	
C434	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C437	nsp	COG220PF-J/50V-1608REEL		D010221167160S	1	
C438	963133501540S	ST-0.00022UF-J/100V-5RE		D02022106C050S	1	
C439	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1	
C440	00D2544573994	22UF-M/50V,5*11 RA3-50V220ME3#8P-T2 ELNA		D040220087330S	1	
C441	nsp	B470PF-K/500V-5RE		D00447127D050S	1	
C442	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1	
C443	nsp	B470PF-K/500V-5RE		D00447127D050S	1	
C444	963133501550S	ST-0.00047UF-J/100V-5RE (S&A)		D02047106C060S	1	
C445	nsp	X7R2200PF-K/50V-2012REEL		D01122277200S	1	
C447,448	00D9630234302	10UF-M/100V,6.3*11-5RE.SMS SY		D04010008C050S	2	
C450	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C453	nsp	COG220PF-J/50V-1608REEL		D010221167160S	1	
C454	963133501540S	ST-0.00022UF-J/100V-5RE		D02022106C050S	1	
C455	00D2544574919	47UF-M/50V,6.3*11-5RE.SMS SY (Pb Free)		D040470087070S	1	
C456	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	1	
C457	nsp	B470PF-K/500V-5RE		D00447127D050S	1	
C458	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1	
C459	nsp	B470PF-K/500V-5RE		D00447127D050S	1	
C460	963133501550S	ST-0.00047UF-J/100V-5RE (S&A)		D02047106C060S	1	
C461	nsp	X7R2200PF-K/50V-2012REEL		D01122277200S	1	
C463,464	00D9630234302	10UF-M/100V,6.3*11-5RE.SMS SY		D04010008C050S	2	
C466	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C469	nsp	COG220PF-J/50V-1608REEL		D010221167160S	1	
C470	963133501540S	ST-0.00022UF-J/100V-5RE		D02022106C050S	1	
C471	00D2544574919	47UF-M/50V,6.3*11-5RE.SMS SY (Pb Free)		D040470087070S	1	
C472	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	1	
C473	nsp	B470PF-K/500V-5RE		D00447127D050S	1	
C474	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1	
C475	nsp	B470PF-K/500V-5RE		D00447127D050S	1	
C476	963133501550S	ST-0.00047UF-J/100V-5RE (S&A)		D02047106C060S	1	
C477	nsp	X7R2200PF-K/50V-2012REEL		D01122277200S	1	
C479,480	00D9630234302	10UF-M/100V,6.3*11-5RE.SMS SY		D04010008C050S	2	
C482	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C485	nsp	COG220PF-J/50V-1608REEL		D010221167160S	1	
C486	963133501540S	ST-0.00022UF-J/100V-5RE		D02022106C050S	1	
C487	00D2544574919	47UF-M/50V,6.3*11-5RE.SMS SY (Pb Free)		D040470087070S	1	
C488	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	1	
C489	nsp	B470PF-K/500V-5RE		D00447127D050S	1	
C490	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1	
C491	nsp	B470PF-K/500V-5RE		D00447127D050S	1	
C492	963133501550S	ST-0.00047UF-J/100V-5RE (S&A)		D02047106C060S	1	
C493	nsp	X7R2200PF-K/50V-2012REEL		D01122277200S	1	
C495,496	00D9630234302	10UF-M/100V,6.3*11-5RE.SMS SY		D04010008C050S	2	
C498	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C501	nsp	COG220PF-J/50V-1608REEL		D010221167160S	1	
C502	963133501540S	ST-0.00022UF-J/100V-5RE		D02022106C050S	1	
C503	00D2544574919	47UF-M/50V,6.3*11-5RE.SMS SY (Pb Free)		D040470087070S	1	
C504	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	1	
C505	nsp	B470PF-K/500V-5RE		D00447127D050S	1	
C506	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1	
C507	nsp	B470PF-K/500V-5RE		D00447127D050S	1	
C508	963133501550S	ST-0.00047UF-J/100V-5RE (S&A)		D02047106C060S	1	
C509	nsp	X7R2200PF-K/50V-2012REEL		D01122277200S	1	
C511,512	00D9630234302	10UF-M/100V,6.3*11-5RE.SMS SY		D04010008C050S	2	
C513,514	00D9630338402	330UF-M/6.3V,6.3*11-5RE.SMS SY		D040331081050S	2	
C515	00D2544538913	22UF-M/16V,5*11-5RE.SMS SY		D040220083070S	1	
<b>OTHER PARTS GROUP</b>						
CN404	963612504740D	170MM/5P 20010HS-05=CKM2002HV-05 YW1007#26		L002171050080S	1	
CP401	nsp	20010WS-13A00 DIP13P STRAIGHT		L101200101310S	1	
CP402	nsp	5267-05A 5P		L102526700500S	1	
CP403	nsp	20010WS-10A00 DIP10P STRAIGHT		L101200101010S	1	
CP405	nsp	5267-03A 3P		L102526700300S	1	
BKT400	nsp	AVR133(HARMAN) BURNING HOLE SPT 0.8t/SCREW		4010210196100S	1	
G400-402	nsp	60MM/1P B1813TOP-2*2 BK1007#20		L000600010050S	3	
J592	nsp	0-J,1/16W-1608REEL		C20000006M160S	1	
JP416	nsp	JUMPER (0.6/52MM)		L045084006040S	1	

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
JP442	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
JP468	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
JP494	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
JP520	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
JP546	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
JP572	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
TP401-407	nsp	20010WR-03A00 DIP3P RIGHT ANGLE		L101200100320S	7		
VR401-407	963161012400S	EVN-DCAA03B13/REEL 1KB		C541102315000S	7		

## HDMI PCB ASS'Y

※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 : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
<b>SEMICONDUCTORS GROUP</b>						
D1001	963204500220D	LRB521S-30T1G SOD523 SCHOTTKY BARRIER DIODE		K125521305230S	1	
D1313	963204500220D	LRB521S-30T1G SOD523 SCHOTTKY BARRIER DIODE		K125521305230S	1	
D2401	00D2760739907	KDS181S(B)-THICK SOT-23		K005018100040S	1	
D3004	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1	
D3005	90M-HI200030R	SIR-34ST3F 3PI 2.5MM INFLARED LIGHT EMITTING DIODE		K505343000010S	1	
D3007	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1	
D3008,3009	963204500220D	LRB521S-30T1G SOD523 SCHOTTKY BARRIER DIODE		K125521305230S	2	
D3201	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1	
D3401	963204500220D	LRB521S-30T1G SOD523 SCHOTTKY BARRIER DIODE		K125521305230S	1	
D3602	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1	
Q1001-1004	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	4	
Q1005-1008	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J522104411210S	4	
Q1303-1305	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	3	
Q1606	963223500020D	UPA672T-T1-A SC-88		J543672001010S	1	
Q2202	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q3003	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	1	
Q3201	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1	
Q3202	963219002180S	2SD2114KT146W SMT3 SOT23-REEL		J5232114K0010S	1	
Q3203	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1	
Q3204	963212500030S	ISA1530AC1 0.2W/SC-59 ISAHAYA		J520015301210S	1	
Q3205,3206	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	2	
Q3207	963212500030S	ISA1530AC1 0.2W/SC-59 ISAHAYA		J520015301210S	1	
Q3208	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1	
Q3209	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q3210	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1	
Q3211	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q3212	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1	
Q3213-3216	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	4	
Q3217	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1	
Q3218,3219	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	2	
Q3220	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1	
Q3601-3605	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J522104411210S	5	
Q3606,3607	963211500160D	PBSS5140U SOT323 40V LOW VCEsat PNP TR		J521051401010S	2	
Q3608-3612	963219004200S	FDC608PZ P-CH 2.5V MOSFET SOT6		J543608000010S	5	
Q3613,3614	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	2	
Q3615-3618	963211500160D	PBSS5140U SOT323 40V LOW VCEsat PNP TR		J521051401010S	4	
Q3619	00D2710326904	2SA1954 (GB) 0.1W/SC-70 REEL		J520195405510S	1	
Q3620	963211500160D	PBSS5140U SOT323 40V LOW VCEsat PNP TR		J521051401010S	1	
Q3621-3626	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	6	
Q3627	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1	
Q3629	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J522104411210S	1	
U1001	236810057606S	ADV3002BSTZ 4-TO-1 HDMI SWITCH TQFP80		J040300205510S	1	
U1251	nsp	AD8195 HDMI/DVI BUFFER EQ LFQSP40		J040819505510S	1	
U1301	943239100760S	TC74VHC4051AFT TOSHIBA		J040744051360S	1	
U1302	963236101220D	ADV7850 HDMI 1.4A RECEIVER BGA425		J040785005510S	1	
U1601	963236101320S	ADV8003-3 BGA425 ADV8003KBCZ-8B SINGLE HDMI TX		J045800303010S	1	
U1602	963248102390S	MX25L12836EMI-10G 128M SERIAL FLASH SOP16		8952500800010	1	*
U1603	963231101500S	NJM2846DL3-18 1.8V TO-252-5 LOW-DROP VOL REGULATOR		J126284618010S	1	
U1801,1802	nsp	K4T51163QJ-BCE7 512M J-DIE DDR2 SDRAM FBGA84		J001451163370S	2	
U2001	nsp	ADSP21487KSWZ-3B3017 SHARC PROCESSOR LQFP176		J080214875520S	1	
U2002	943246012690S	W9864G6JH-6 1M*4BANKS*16BIT(64MB) TSOP54		J001986466010S	1	
U2003	963248101700S	MX29LV160DBT1-70G 16M(2M*8/1M*16)3V TSOP48		8952400000240	1	
U2201,2202	963239101100S	BCR-802-M25 25MBPS OPTICAL RECEIVER INTERFACE		E100802000250S	2	
U2203	23681014050AS	PCM9211 TRANSCEIVER LQFP48		J046921100010S	1	
U2204	00D2623077900	TC74VHC04FT HEX INVERTER TSSOP14		J040740405580S	1	
U2205	963243101540S	5M80ZT100C5N TQFP100		8952400000230	1	
U2207	963239002150S	SN74LVC244APWR TSSOP 20P/OCTAL BUFFER/DRIVER		J040742440230S	1	
U2401	943239100690S	PCMS100 TSSOP20 AUDIO STEREO DAC		J042510005510S	1	
U2402,2403	943239010400S	NJM2845DL1-33 3.3V TO-252-3 LOW-DROP VOL REGULATOR		J126284533010S	2	
U2404	nsp	PCM1690 HTSSOP48		J042169000010S	1	
U2406-2409	963232100390S	NJM8080G SOP8 DUAL OP AMP		J121808000010S	4	
U2602	23681011260AS	DM860A NETWORKED MEDIA PROCESSOR LFBGA320		J080860A05510S	1	
U2603	963248101910S	H27U1G8F2BTR 1Gbit NAND FLASH TSOP48 TSI		8952160400030	1	
U2604,2605	963246100740D	A3V56S30FTP-G6 256Mb SDRAM TSOP54		J001030563060S	2	
U2802	nsp	LAN8720A ETHERNET TRANSCEIVER QFN24 SMC		J127872005510S	1	
U2805	nsp	MFI337S3959 COPROCESSOR(IPOD) DENON SAGUB		J044337395910S	1	
U2806	nsp	NCP380HMU15AATBG UDFN6		J127380150010S	1	
U3001	963262012150M	R94EV1A 36KHZ STRAIGHT LEAD P=2.54MM		E940941003610S	1	
U3002	963243101880S	R5F56108VNFP 32BIT MICROCOMPUTER P-LQFP144 RENESAS		8952500800020	1	*
U3003	943239100720S	R1EX24256BSA0A 256Kbit SERIAL SOP8 RENESAS		J000242565570S	1	
U3202	00D2623676903	TC74VHCT08AFTS1-TBB TSSOP14P QUAD 2-INPUT AND GATE		J040740800350S	1	
U3601-3605	nsp	EX3AV 3A VOL DC-DC CONVERTER QFN38		J048030030010S	5	
U3608	943239100730S	PST8448UR SYSTEM RESET SC-82AB MITSUMI		J125844800010S	1	
Z3001	nsp	SR5005U1BSPTPE t0.3 A4/CASE		3070210646000S	1	
<b>RESISTOR GROUP</b>						
R1001-1004	nsp	1K-J,1/16W-1005REEL		C20001026M101S	4	
R1005-1008	nsp	10K-J,1/16W-1005REEL		C20001036M111S	4	
R1009-1012	nsp	47K-J,1/16W-1005REEL		C20004736M101S	4	
R1017,1018	nsp	2.2K-J,1/16W-1005REEL		C20002226M101S	2	
R1019-1021	nsp	10K-J,1/16W-1005REEL		C20001036M111S	3	
R1024-1032	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	9	
R1033,1034	nsp	33-J,1/16W-1005REEL		C20003306M101S	2	
R1036	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1	
R1037	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	
R1039	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	
R1041	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	
R1043	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	
R1046	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	
R1252	nsp	0-J,1/16W-1005REEL		C20000006M101S	1	
R1254	nsp	0-J,1/16W-1005REEL		C20000006M101S	1	
R1255	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1	
R1257,1258	nsp	0-J,1/16W-1005REEL		C20000006M101S	2	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R1260,1261	nsp	2.2K-J,1/16W-1005REEL	C20002226M101S	2		
R1262,1263	nsp	0-J,1/16W-1005REEL	C20000006M101S	2		
R1267	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R1303	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R1306-1309	nsp	24-J,1/16W-1608REEL	C20002406M160S	4		
R1311,1312	nsp	0-J,1/16W-1005REEL	C20000006M101S	2		
R1313	nsp	2.2K-J,1/16W-1005REEL	C20002226M101S	1		
R1314,1315	nsp	51-J,1/16W-1608REEL	C20005106M160S	2		
R1317	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R1318	nsp	3.3K-J,1/16W-1005REEL	C20003326M101S	1		
R1319,1320	nsp	51-J,1/16W-1608REEL	C20005106M160S	2		
R1323	nsp	680-J,1/16W-1005REEL	C20006816M101S	1		
R1325	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R1329	nsp	47K-J,1/16W-1005REEL	C20004736M101S	1		
R1331	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	1		
R1333	nsp	680-J,1/16W-1005REEL	C20006816M101S	1		
R1334,1335	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	2		
R1336,1337	nsp	2.2K-J,1/16W-1005REEL	C20002226M101S	2		
R1338	nsp	1K-J,1/16W-1005REEL	C20001026M101S	1		
R1339,1340	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	2		
R1342-1344	nsp	47K-J,1/16W-1005REEL	C20004736M101S	3		
R1345	nsp	2.2K-J,1/16W-1005REEL	C20002226M101S	1		
R1346	nsp	0-J,1/16W-1608REEL	C20000006M160S	1		
R1350	nsp	0-J,1/10W-2012REEL	C200000060200S	1		
R1352	nsp	470-D,1/16W-1608REEL	C20004711M160S	1		
R1360	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	1		
R1361	nsp	47K-J,1/16W-1005REEL	C20004736M101S	1		
R1363	nsp	680-J,1/16W-1005REEL	C20006816M101S	1		
R1368	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R1369,1370	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	2		
R1401,1402	nsp	10-J,1/16W SMD(1005)*4 WA04X	C180100042100S	2		
R1403,1404	nsp	47-J,1/16W SMD(1005)*4 WA04X	C180470042100S	2		
R1407-1409	nsp	4.7K-J,1/16W SMD(1005)*4 WA04X	C180472042100S	3		
R1410-1412	nsp	47K-J,1/16W SMD(1005)*4 WA04X	C180473042100S	3		
R1413-1417	nsp	4.7K-J,1/16W SMD(1005)*4 WA04X	C180472042100S	5		
R1419	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R1617,1618	nsp	1K-D,1/16W-1608REEL	C20001021M160S	2		
R1619,1620	nsp	470-D,1/16W-1608REEL	C20004711M160S	2		
R1622	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	1		
R1623	nsp	1.3K-J,1/16W-1608REEL	C20001326M160S	1		
R1624	nsp	2.2K-J,1/16W-1608REEL	C20002226M160S	1		
R1628	nsp	2.7K-F,1/16W-1608REEL	C20002724M161S	1		
R1629	nsp	180-F,1/16W-1608REEL	C20001814M161S	1		
R1630	nsp	2.7K-F,1/16W-1608REEL	C20002724M161S	1		
R1631	nsp	180-F,1/16W-1608REEL	C20001814M161S	1		
R1632	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R1636	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R1637,1638	nsp	10K-J,1/16W-1608REEL	C20001036M160S	2		
R1639	nsp	1K-J,1/16W-1005REEL	C20001026M101S	1		
R1640	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	1		
R1641	nsp	1.8K-J,1/16W-1005REEL	C20001826M101S	1		
R1645,1646	nsp	33-J,1/16W-1005REEL	C20003306M101S	2		
R1647	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R1648	nsp	1.8K-J,1/16W-1005REEL	C20001826M101S	1		
R1649-1652	nsp	0-J,1/16W-1005REEL	C20000006M101S	4		
R1653	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R1654	nsp	5.1-J,1/16W-1005REEL	C2005R106M101S	1		
R1657	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R1658	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R1659	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R1660	nsp	10-J,1/16W SMD(1005)*4 WA04X	C180100042100S	1		
R1661	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R1662	nsp	56-J,1/16W-1005REEL	C20005606M101S	1		
R1663-1665	nsp	47-J,1/16W-1005REEL	C20004706M101S	3		
R1667-1670	nsp	47-J,1/16W-1005REEL	C20004706M101S	4		
R1673	nsp	47-J,1/16W SMD(1005)*4 WA04X	C180470042100S	1		
R1675-1679	nsp	47-J,1/16W SMD(1005)*4 WA04X	C180470042100S	5		
R1680	nsp	33-J,1/16W SMD(1005)*4 WA04X	C180330042100S	1		
R1681-1689	nsp	47-J,1/16W SMD(1005)*4 WA04X	C180470042100S	9		
R1690	nsp	33-J,1/16W SMD(1005)*4 WA04X	C180330042100S	1		
R1691-1694	nsp	4.7K-J,1/16W SMD(1005)*4 WA04X	C180472042100S	4		
R1695	nsp	56-J,1/16W-1005REEL	C20005606M101S	1		
R1696-1698	nsp	33-J,1/16W SMD(1005)*4 WA04X	C180330042100S	3		
R1699,1700	nsp	51-D,1/16W-1608REEL	C20005101M160S	2		
R1702-1706	nsp	33-J,1/16W SMD(1005)*4 WA04X	C180330042100S	5		
R1707	nsp	10K-J*4 1/16W SMD(1005) WA04	C180103042100S	1		
R1715	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R1717-1728	nsp	0-J,1/16W-1005REEL	C20000006M101S	12		
R1729	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R1730-1734	nsp	0-J,1/16W-1005REEL	C20000006M101S	5		
R1818,1819	nsp	1K-D,1/16W-1608REEL	C20001021M160S	2		
R1820,1821	nsp	10K-J,1/16W-1005REEL	C20001036M111S	2		
R2003	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2004	nsp	1K-J,1/16W-1005REEL	C20001026M101S	1		
R2006	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	1		
R2008	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2011	nsp	47-J,1/16W-1005REEL	C20004706M101S	1		
R2012	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	1		
R2014,2015	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	2		
R2016,2017	nsp	33-J,1/16W-1005REEL	C20003306M101S	2		
R2018	nsp	10-J,1/16W-1005REEL	C20001006M101S	1		
R2019	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2020	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R2021	nsp	1M-J,1/16W-1005REEL	C20001056M101S	1		
R2022	nsp	47-J,1/16W-1005REEL	C20004706M101S	1		
R2023	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2024,2025	nsp	0-J,1/16W-1005REEL	C20000006M101S	2		
R2026	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2027	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R2028	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2030	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2031	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R2032	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2033	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R2035	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R2037	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	1		
R2039	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2040	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R2041	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2043	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2044	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R2045	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2046	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R2048,2049	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	2		
R2050	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R2101	nsp	33-J,1/16W SMD(1005)*4 WA04X	C180330042100S	1		
R2103-2106	nsp	10-J,1/16W SMD(1005)*4 WA04X	C180100042100S	4		
R2107-2112	nsp	33-J,1/16W SMD(1005)*4 WA04X	C180330042100S	6		
R2113-2118	nsp	10K-J*4,1/16W SMD(1005) WA04	C180103042100S	6		
R2119,2120	nsp	33-J,1/16W SMD(1005)*4 WA04X	C180330042100S	2		
R2202,2203	nsp	33-J,1/16W-1005REEL	C20003306M101S	2		
R2204-2207	nsp	150-J,1/16W-1005REEL	C20001516M101S	4		
R2208	nsp	3.3K-J,1/16W-1005REEL	C20003326M101S	1		
R2209	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R2210,2211	nsp	470-J,1/16W-1005REEL	C20004716M101S	2		
R2214	nsp	47K-J,1/16W-1005REEL	C20004736M101S	1		
R2215	nsp	330K-J,1/16W-1005REEL	C20003346M101S	1		
R2216	nsp	47K-J,1/16W-1005REEL	C20004736M101S	1		
R2217	nsp	330K-J,1/16W-1005REEL	C20003346M101S	1		
R2224	nsp	820-J,1/16W-1005REEL	C20008216M101S	1		
R2225	nsp	680-J,1/16W-1005REEL	C20006816M101S	1		
R2229,2230	nsp	0-J,1/16W-1005REEL	C20000006M101S	2		
R2232	nsp	0-J,1/16W-1608REEL	C20000006M160S	1		
R2235	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R2237,2238	nsp	33-J,1/16W-1005REEL	C20003306M101S	2		
R2240-2242	nsp	33-J,1/16W-1005REEL	C20003306M101S	3		
R2244-2249	nsp	33-J,1/16W-1005REEL	C20003306M101S	6		
R2251	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R2252,2253	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	2		
R2254	nsp	1K-J,1/16W-1005REEL	C20001026M101S	1		
R2264	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R2266-2268	nsp	10K-J,1/16W-1005REEL	C20001036M111S	3		
R2269,2270	nsp	33-J,1/16W-1005REEL	C20003306M101S	2		
R2271-2274	nsp	100-J,1/16W-1005REEL	C20001016M101S	4		
R2275	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	1		
R2276	nsp	1K-J,1/16W-1005REEL	C20001026M101S	1		
R2277,2278	nsp	10K-J,1/16W-1005REEL	C20001036M111S	2		
R2286	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R2301	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R2402	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R2405	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2406,2407	nsp	470-J,1/16W-1005REEL	C20004716M101S	2		
R2408,2409	nsp	0-J,1/16W-1608REEL	C20000006M160S	2		
R2410,2411	nsp	100K-J,1/16W-1005REEL	C20001046M101S	2		
R2412	nsp	1K-J,1/16W-1005REEL	C20001026M101S	1		
R2413,2414	nsp	0-J,1/16W-1608REEL	C20000006M160S	2		
R2415-2430	nsp	15K-J,1/16W-1608REEL	C20001536M160S	16		
R2438	nsp	300K-J,1/16W-1608REEL	C20003046M160S	1		
R2443,2444	nsp	0-J,1/16W-1608REEL	C20000006M160S	2		
R2445-2447	nsp	11K-J,1/16W-1608REEL	C20001136M160S	3		
R2448	nsp	24K-J,1/16W-1608REEL	C20002436M160S	1		
R2449,2450	nsp	16K-J,1/16W-1608REEL	C20001636M160S	2		
R2451,2452	nsp	11K-J,1/16W-1608REEL	C20001136M160S	2		
R2453-2468	nsp	820-J,1/16W-1608REEL	C20008216M160S	16		
R2470,2471	nsp	11K-J,1/16W-1608REEL	C20001136M160S	2		
R2474	nsp	11K-J,1/16W-1608REEL	C20001136M160S	1		
R2475	nsp	24K-J,1/16W-1608REEL	C20002436M160S	1		
R2476	nsp	300K-J,1/16W-1608REEL	C20003046M160S	1		
R2478,2479	nsp	16K-J,1/16W-1608REEL	C20001636M160S	2		
R2482,2483	nsp	11K-J,1/16W-1608REEL	C20001136M160S	2		
R2489-2496	nsp	100-J,1/16W-1608REEL	C20001016M160S	8		
R2497,2498	nsp	470K-J,1/16W-1608REEL	C20004746M160S	2		
R2501	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2502	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R2504,2505	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	2		
R2508-2510	nsp	33-J,1/16W-1005REEL	C20003306M101S	3		
R2511	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R2604	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2605-2608	nsp	33-J,1/16W-1005REEL	C20003306M101S	4		
R2609-2611	nsp	10K-J,1/16W-1005REEL	C20001036M111S	3		
R2612	nsp	1K-J,1/16W-1005REEL	C20001026M101S	1		
R2613	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2614	nsp	3K-F,1/16W-1608REEL	C20003024M161S	1		
R2615-2617	nsp	33-J,1/16W-1005REEL	C20003306M101S	3		
R2618	nsp	13K-D,1/16W-1608REEL	C20001331M160S	1		
R2619	nsp	6.2K-D,1/16W-1608REEL	C20006221M160S	1		
R2620	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R2621	nsp	1M-J,1/16W-1005REEL	C20001056M101S	1		
R2622	nsp	1.5K-J,1/16W-1005REEL	C20001526M101S	1		
R2623-2626	nsp	33-J,1/16W-1005REEL	C20003306M101S	4		
R2629,2630	nsp	33-J,1/16W-1005REEL	C20003306M101S	2		
R2631,2632	nsp	10-J,1/16W-1005REEL	C20001006M101S	2		
R2633	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R2634	nsp	2.7K-J,1/16W-1005REEL	C20002726M101S	1		
R2635	nsp	1.5K-J,1/16W-1005REEL	C20001526M101S	1		
R2636	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R2640	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	1		
R2641-2644	nsp	33-J,1/16W-1005REEL	C20003306M101S	4		
R2646	nsp	33-J,1/16W-1005REEL	C20003306M101S	1		
R2647	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	1		
R2650	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R2651,2652	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	2		
R2653	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R2701-2703	nsp	10K-J*4,1/16W SMD(1005) WA04	C180103042100S	3		

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R2704-2706	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	3	
R2707	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	
R2708	nsp	10K-J*4 1/16W SMD(1005) WA04		C180103042100S	1	
R2709-2716	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	8	
R2717	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	1	
R2718	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1	
R2719	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1	
R2720	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	1	
R2721	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	
R2801	nsp	0-J,1/16W-1005REEL		C20000006M101S	1	
R2803	nsp	10-F,1/16W-1005REEL		C20001004M100S	1	
R2805,2806	nsp	3.3-J,1/16W-1005REEL		C2003R306M101S	2	
R2812-2816	nsp	33-J,1/16W-1005REEL		C20003306M101S	5	
R2817	nsp	100-J,1/16W-1005REEL		C20001016M101S	1	
R2819	nsp	33-J,1/16W-1005REEL		C20003306M101S	1	
R2820	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	
R2822-2825	nsp	10K-J,1/16W-1005REEL		C20001036M111S	4	
R2826	nsp	1.5K-F,1/16W-1005REEL		C20001524M100S	1	
R2827	nsp	1.5K-J,1/16W-1005REEL		C20001526M101S	1	
R2828	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	
R2829,2830	nsp	49.9-F,1/16W-1608REEL		C20049R94M161S	2	
R2831	nsp	8.2K-F,1/16W-1005REEL		C20008224M101S	1	
R2832,2833	nsp	49.9-F,1/16W-1608REEL		C20049R94M161S	2	
R2834	nsp	3.9K-F,1/16W-1005REEL		C20003924M100S	1	
R2850	nsp	0-J,1/16W-1005REEL		C20000006M101S	1	
R2856	nsp	0-J,1/16W-1005REEL		C20000006M101S	1	
R2859	nsp	0-J,1/16W-1005REEL		C20000006M101S	1	
R2863	nsp	100-J,1/16W-1005REEL		C20001016M101S	1	
R2864,2865	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2	
R3001,3002	nsp	1K-J,1/16W-1005REEL		C20001026M101S	2	
R3010,3011	nsp	100-J,1/16W-1005REEL		C20001016M101S	2	
R3012	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R3017	nsp	0-J,1/16W-1608REEL	N	C20000006M160S	1	
R3017	nsp	10K-J,1/16W-1608REEL	K	C20001036M160S	1	
R3018	nsp	0-J,1/16W-1608REEL	U	C20000006M160S	1	
R3018	nsp	10K-J,1/16W-1608REEL	K	C20001036M160S	1	
R3019-3022	nsp	33-J,1/16W-1005REEL		C20003306M101S	4	
R3023	nsp	0-J,1/16W-1005REEL		C20000006M101S	1	
R3024-3029	nsp	33-J,1/16W-1005REEL		C20003306M101S	6	
R3030,3031	nsp	0-J,1/16W-1005REEL		C20000006M101S	2	
R3032-3034	nsp	33-J 1/16W-1005REEL		C20003306M101S	3	
R3035	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R3037	nsp	33-J,1/16W-1005REEL		C20003306M101S	1	
R3038	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R3041	nsp	0-J,1/16W-1005REEL		C20000006M101S	1	
R3042,3043	nsp	33-J,1/16W-1005REEL		C20003306M101S	2	
R3044	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	
R3045	nsp	33-J,1/16W-1005REEL		C20003306M101S	1	
R3048	nsp	33-J,1/16W-1005REEL		C20003306M101S	1	
R3050	nsp	33-J,1/16W-1005REEL		C20003306M101S	1	
R3051	nsp	0-J,1/16W-1005REEL		C20000006M101S	1	
R3058-3061	nsp	33-J,1/16W-1005REEL		C20003306M101S	4	
R3062	nsp	10-J,1/16W-1005REEL		C20001006M101S	1	
R3063,3064	nsp	33-J,1/16W-1005REEL		C20003306M101S	2	
R3065-3067	nsp	1K-J,1/16W-1005REEL		C20001026M101S	3	
R3068	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	
R3069-3076	nsp	33-J,1/16W-1005REEL		C20003306M101S	8	
R3077,3078	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2	
R3079	nsp	33-J,1/16W-1005REEL		C20003306M101S	1	
R3081	nsp	33-J,1/16W-1005REEL		C20003306M101S	1	
R3084	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R3086	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R3088	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R3090	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R3092	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	
R3094	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R3098	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R3100	nsp	33-J,1/16W-1005REEL		C20003306M101S	1	
R3103	nsp	0-J,1/16W-1608REEL		C20000006M160S	1	
R3104-3106	nsp	33-J,1/16W-1005REEL		C20003306M101S	3	
R3107	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	
R3201	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R3202	nsp	2.2M-J,1/16W-1005REEL		C20002256M101S	1	
R3203	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	
R3204	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1	
R3205	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1	
R3206	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1	
R3207	nsp	220K-J,1/16W-1005REEL		C20002246M101S	1	
R3208	nsp	27K-J,1/16W-1005REEL		C20002736M101S	1	
R3209	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1	
R3211	nsp	1.2K-J,1/16W-1005REEL		C20001226M101S	1	
R3212-3214	nsp	0-J,1/16W-1005REEL		C20000006M101S	3	
R3215	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R3216,3217	nsp	33-J,1/16W-1005REEL		C20003306M101S	2	
R3218	nsp	0-J,1/16W-1005REEL		C20000006M101S	1	
R3219	nsp	390-J,1/16W-1005REEL		C20003916M101S	1	
R3220	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1	
R3221	nsp	2.7K-J,1/16W-1005REEL		C20002726M101S	1	
R3222	nsp	270-J,1/16W-1005REEL		C20002716M101S	1	
R3223	nsp	470K-J,1/16W-1005REEL		C20004746M101S	1	
R3224	nsp	100-J,1/16W-1005REEL		C20001016M101S	1	
R3225	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1	
R3226	nsp	100-J,1/16W-1005REEL		C20001016M101S	1	
R3227	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1	
R3228	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1	
R3230	nsp	18K-J,1/16W-1005REEL		C20001836M101S	1	
R3231	nsp	100-J,1/16W-1005REEL		C20001016M101S	1	
R3232	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R3234	nsp	100-J,1/16W-1005REEL		C20001016M101S	1	
R3235	nsp	120K-J,1/16W-1005REEL		C20001246M101S	1	
R3237	nsp	470-J,1/16W-1005REEL		C20004716M101S	1	
R3238	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R3239,3240	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	2		
R3241	nsp	390-J,1/16W-1005REEL	C20003916M101S	1		
R3242	nsp	100-J,1/16W-1005REEL	C20001016M101S	1		
R3243	nsp	2.7K-J,1/16W-1005REEL	C20002726M101S	1		
R3244	nsp	270-J,1/16W-1005REEL	C20002716M101S	1		
R3245	nsp	120K-J,1/16W-1005REEL	C20001246M101S	1		
R3247	nsp	470-J,1/16W-1005REEL	C20004716M101S	1		
R3248	nsp	1K-J,1/16W-1005REEL	C20001026M101S	1		
R3249	nsp	100-J,1/16W-1005REEL	C20001016M101S	1		
R3250	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	1		
R3251	nsp	1K-J,1/16W-1005REEL	C20001026M101S	1		
R3252	nsp	100-J,1/16W-1005REEL	C20001016M101S	1		
R3601	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R3602	nsp	10K-J,1/16W-1005REEL	C20001036M111S	1		
R3603-3605	nsp	0-J,1/16W-1005REEL	C20000006M101S	3		
R3607	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	1		
R3609-3611	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	3		
R3625	nsp	150K-D,1/16W-1608REEL	C20001541M160S	1		
R3626	nsp	47K-D,1/16W-1608REEL	C20004731M160S	1		
R3627	nsp	150K-D,1/16W-1608REEL	C20001541M160S	1		
R3628	nsp	120K-D,1/16W-1608REEL	C20001241M160S	1		
R3629	nsp	150K-D,1/16W-1608REEL	C20001541M160S	1		
R3630	nsp	470K-D,1/16W-1608REEL	C20004741M160S	1		
R3631	nsp	150K-D,1/16W-1608REEL	C20001541M160S	1		
R3632	nsp	300K-D,1/16W-1608REEL	C20003041M160S	1		
R3633	nsp	150K-D,1/16W-1608REEL	C20001541M160S	1		
R3634	nsp	120K-D,1/16W-1608REEL	C20001241M160S	1		
R3637	nsp	680K-J,1/16W-1608REEL	C20006846M160S	1		
R3638,3639	nsp	1M-J,1/16W-1608REEL	C20001056M160S	2		
R3640	nsp	1.5M-J,1/16W-1608REEL	C20001556M160S	1		
R3641	nsp	820K-J,1/16W-1608REEL	C20008246M160S	1		
R3647	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R3649-3660	nsp	10K-J,1/16W-1005REEL	C20001036M111S	12		
R3661,3662	nsp	3.3K-J,1/16W-1005REEL	C20003326M101S	2		
R3663,3664	nsp	10K-J,1/16W-1005REEL	C20001036M111S	2		
R3666-3669	nsp	10K-J,1/16W-1005REEL	C20001036M111S	4		
R3670,3671	nsp	3.3K-J,1/16W-1005REEL	C20003326M101S	2		
R3672	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
R3673-3676	nsp	3.3K-J,1/16W-1005REEL	C20003326M101S	4		
R3678	nsp	4.7K-J,1/16W-1005REEL	C20004726M101S	1		
R3679	nsp	47K-J,1/16W-1005REEL	C20004736M101S	1		
R3680	nsp	100K-J,1/16W-1005REEL	C20001046M101S	1		
R3681	nsp	100-J,1/16W-1005REEL	C20001016M101S	1		
R3687,3688	nsp	22-J,1/16W-1005REEL	C20002206M101S	2		
R3689-3702	nsp	0-J,1/16W-1005REEL	C20000006M101S	14		
R3703,3704	nsp	10K-J,1/16W-1005REEL	C20001036M111S	2		
<b>CAPACITORS GROUP</b>						
C1003-1007	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	5		
C1010	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1016	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C1023	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C1025	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C1027	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C1029	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C1031	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C1251-1257	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	7		
C1258	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L	D011106573200S	1		
C1259	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C1260	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1261	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C1262	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L	D011106573200S	1		
C1269	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L	D011106573200S	1		
C1301-1304	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	4		
C1305	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C1306-1309	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	4		
C1312	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C1314-1322	nsp	0-J,1/16W-1005REEL	C20000006M101S	9		
C1323-1325	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	3		
C1326	nsp	0-J,1/16W-1005REEL	C20000006M101S	1		
C1327	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1329-1331	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	3		
C1333	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1335,1336	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	2		
C1337	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1339	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1341	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1342	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1345	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1350	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1351	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1358	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1361	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1362	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1364	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1367	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1369	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1370	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C1373	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1377	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1381	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1385	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1387,1388	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C1391	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1393	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1395	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1396	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1398	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1401	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1402	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1407	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1410	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1411	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
C1412	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1415	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1416	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1418	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1419	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1420,1421	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C1424	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1425	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1429	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1430	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1431	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1434,1435	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	2		
C1439,1440	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	2		
C1441	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1443,1444	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C1445	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1446,1447	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C1448	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1449	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1450,1451	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	2		
C1452,1453	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C1454-1461	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	8		
C1462,1463	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C1464	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1465	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1466	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1467	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1468,1469	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C1470	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1472	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1474,1475	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	2		
C1476	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1477,1478	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	2		
C1479	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1480	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1481	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1482	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1484	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1485	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1486-1489	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	4		
C1490	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1491	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1492	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1494	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1495-1498	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	4		
C1500	nsp	X7R)0.1UF-K/25V-1005REEL	D011104774161S	1		
C1511,1512	nsp	COG8PF-D/50V-1608REEL	D010080117160S	2		
C1513	nsp	X7R)1UF-K/10V-1608REEL	D011105772161S	1		
C1514	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1516,1517	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C1605,1606	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	2		
C1607-1609	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	3		
C1610	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1611-1613	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	3		
C1614,1615	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	2		
C1616-1620	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	5		
C1621	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1622,1623	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C1624	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1625	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1626-1632	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	7		
C1633	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1634	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1635	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1636	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1637	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1639	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1640	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1642	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1643,1644	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	2		
C1645	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1647	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1649	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1652	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1654	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1656	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1659,1660	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	2		
C1661,1662	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C1663,1664	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	2		
C1665	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C1666	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1667	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C1668,1669	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	2		
C1670,1671	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C1672	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1673,1674	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C1675	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1676	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1677	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1678	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1679	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1680	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1681,1682	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	2		
C1683	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1690	nsp	X7R 0.15uF-K/10V-1608REEL	D011154172160S	1		
C1691	nsp	X7R)0.012UF-K/50V-1608REEL	D011123177161S	1		
C1692	nsp	X7R 0.15uF-K/10V-1608REEL	D011154172160S	1		
C1693	nsp	X7R)0.012UF-K/50V-1608REEL	D011123177161S	1		
C1694	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1697,1698	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	2		
C1700	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1701	nsp	COG)33PF-J/50V-1005REEL	D0111330167101S	1		

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
C1702,1703	nsp	COG8PF-D/50V-1608REEL	D010080117160S	2		
C1704	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1705,1706	nsp	X7R)1UF-K/10V-1608REEL	D011105772161S	2		
C1707	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1709,1710	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C1711	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C1712	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1713	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C1730	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C1801	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L	D011106573200S	1		
C1810-1825	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	16		
C1826	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L	D011106573200S	1		
C1835-1851	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	17		
C1853	nsp	X7R)1UF-K/10V-1608REEL	D011105772161S	1		
C1854	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2001	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2002	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2003	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2004	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2005	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2006	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2007	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2008	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2009	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2010	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2011,2012	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	2		
C2013	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2014-2016	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	3		
C2017,2018	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C2022	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2023,2024	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C2025	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2026	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2027	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2028	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2029	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2030	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2031,2032	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	2		
C2033	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2034	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2035,2036	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C2037	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2038	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2039	nsp	COG)9PF-D/50V-1005REEL	D011090117101S	1		
C2040	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2041	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2042,2043	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	2		
C2044	nsp	COG)9PF-D/50V-1005REEL	D011090117101S	1		
C2045	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2046	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2047,2048	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	2		
C2049-2051	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	3		
C2052	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2053	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2054,2055	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	2		
C2056	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2057	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2058	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2059	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2060	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2061	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2062,2063	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C2064	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2065	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2066	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2067,2068	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	2		
C2071,2072	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	2		
C2073-2075	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	3		
C2076	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2077	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2078	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2079	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2080	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2081	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2082	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2083-2085	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	3		
C2086	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2087	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2088-2092	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	5		
C2093	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2094	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2095	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2096	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2097	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2098	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2099	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2100	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2101	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2102	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2103-2106	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	4		
C2107	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2108	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2109	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2110,2111	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	2		
C2112	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2113,2114	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	2		
C2115	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2203,2204	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C2206,2207	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	2		
C2211	nsp	COG)12PF-G/50V-1005REEL GRM1555C1H120GA01D	D010120157100S	1		
C2212	nsp	COG)15PF-G/50V-1005REEL GRM1555C1H150GA01D	D010150157100S	1		
C2213	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
C2214	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2215	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C2216	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2217,2218	nsp	X7R)0.1UF-K/25V-1608REEL	D011104774161S	2		
C2219	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2220	nsp	COG)0.068UF-J/50V-3216REEL GRM31C5C1H683JA01L	D010683167300S	1		
C2221	nsp	COG)4700PF-J/50V-2012REEL GRM2165C1H472JA01D	D010472167200S	1		
C2222-2226	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	5		
C2228	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2230-2232	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	3		
C2234-2237	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	4		
C2238	nsp	X7R)1000PF-K/50V-1608REEL	D011102777160S	1		
C2239	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2401-2405	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	5		
C2406	nsp	X5R)2.2UF-M/6.3V-1005REEL	D011225581100S	1		
C2407	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2408	nsp	X7R)1UF-K/10V-1608REEL	D011105772161S	1		
C2409,2410	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	2		
C2411	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2412	nsp	X5R)2.2UF-M/6.3V-1005REEL	D011225581100S	1		
C2413	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2414	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2415,2416	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	2		
C2418	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2419	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2421	nsp	X7R)2.2U-K/10V-1608REEL	D011105772161S	1		
C2422	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2424,2425	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	2		
C2426	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY	D050100083470S	1		
C2427-2432	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	6		
C2435,2436	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	2		
C2437,2438	nsp	X7R)2200PF-K/50V-1005REEL	D011222177101S	2		
C2439-2445	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	7		
C2450	nsp	X7R)1UF-K/10V-1608REEL	D011105772161S	1		
C2451	963134000450S	100UF-MVG/16V,6.6*7.2*5.7 REEL (Z8157) SY	D050101083660S	1		
C2454-2461	nsp	COG)1500PF-J/50V-1608REEL GRM1885C1H152JA01D	D010152167163S	8		
C2465-2468	nsp	COG)330PF-J/50V-1608REEL	D010331167160S	4		
C2469,2470	nsp	COG)240PF-J/50V-1608REEL GRM1885C1H241JA01D	D010241167163S	2		
C2471-2476	nsp	COG)330PF-J/50V-1608REEL	D010331167160S	6		
C2477,2478	nsp	COG)240PF-J/50V-1608REEL GRM1885C1H241JA01D	D010241167163S	2		
C2479,2480	nsp	COG)330PF-J/50V-1608REEL	D010331167160S	2		
C2481,2482	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY	D050100083470S	2		
C2483-2485	nsp	X7R)0.1UF-K/50V-1608REEL	D011103777160S	3		
C2486	963134000450S	100UF-MVG/16V,6.6*7.2*5.7 REEL (Z8157) SY	D050101083660S	1		
C2487	nsp	X7R)0.1UF-K/50V-1608REEL	D011103777160S	1		
C2488	963134000450S	100UF-MVG/16V,6.6*7.2*5.7 REEL (Z8157) SY	D050101083660S	1		
C2491,2492	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY	D050100083470S	2		
C2494,2495	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY	D050100083470S	2		
C2496	nsp	X7R)1UF-K/10V-1608REEL	D011105772161S	1		
C2498	nsp	X7R)1UF-K/10V-1608REEL	D011105772161S	1		
C2499	00D9630325305	47UF-MVG/6.3V,4*3*5.1*5.3 REEL (Z8155) SY	D050470081460S	1		
C2601	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2602,2603	nsp	COG)12PF-G/50V-1005REEL GRM1555C1H120GA01D	D010120157100S	2		
C2605-2608	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	4		
C2609-2619	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	11		
C2620-2622	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	3		
C2623	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2624	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C2627-2630	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	4		
C2631-2640	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	10		
C2641-2643	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	3		
C2645	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C2648	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C2653	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2657	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2659	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2660-2667	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	8		
C2676,2677	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	2		
C2678	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2679,2680	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	2		
C2801	nsp	X7R)0.22UF-K/25V-1608REEL	D01122377160S	1		
C2803	nsp	X7R)1UF-K/10V-1608REEL	D011105772161S	1		
C2806	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2807,2808	nsp	COG)10PF-D/50V-1005REEL	D011100117101S	2		
C2811	nsp	X7R)1UF-K/10V-1608REEL	D011105772161S	1		
C2812	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2813	nsp	X7R)470PF-K/50V-1005REEL	D011471177101S	1		
C2814	nsp	X7R)1UF-K/10V-1608REEL	D011105772161S	1		
C2815	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2816	nsp	X7R)1000PF-K/50V-1608REEL	D011102777160S	1		
C2817	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C2818	nsp	X7R)1000PF-K/50V-1608REEL	D011102777160S	1		
C2819	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C2821	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C2823	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C2824,2825	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C2845	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C2846	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C2853	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C3005	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C3007	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C3009	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C3010	nsp	X7R)4.7UF-K/6.3V-1608REEL	D011475571160S	1		
C3011-3014	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	4		
C3015	nsp	COG)12PF-J/50V-1005REEL	D011120167101S	1		
C3016	nsp	COG)15PF-J/50V-1005REEL	D011150167101S	1		
C3017-3019	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	3		
C3021,3022	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C3202	nsp	X7R)220PF-K/50V-1005REEL	D011221177101S	1		
C3205,3206	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	2		
C3210	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C3211	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
C3212	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C3213-3216	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	4		
C3414-3416	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	3		
C3417	nsp	COG)100PF-J/50V-1005REEL	D011101167101S	1		
C3418	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C3419-3424	nsp	COG)100PF-J/50V-1005REEL	D011101167101S	6		
C3601-3605	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	5		
C3619-3623	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L	D011106573200S	5		
C3625-3629	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	5		
C3631-3635	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	5		
C3637-3641	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L	D011106573200S	5		
C3643-3648	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L	D011106573200S	6		
C3649-3652	nsp	COG)15PF-J/50V-1608REEL	D010150167160S	4		
C3653	nsp	COG)10PF-J/50V-1608REEL	D010100167161S	1		
C3667-3669	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	3		
C3673-3676	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	4		
C3677	nsp	X7R)0.01UF-K/25V-1005REEL	D011103174101S	1		
C3678	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C3682	nsp	X7R)1000PF-K/50V-1005REEL	D011102177101S	1		
C3695-3701	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	7		
C3744	nsp	X7R)1UF-K/10V-1608REEL	D011105772161S	1		
C3752	nsp	X7R)2.2U-K/10V-1608REEL	D011105772161S	1		
C3788	nsp	X7R)0.01UF-K/50V-1608REEL	D011153777160S	1		
C3789	963134501220S	470UF-M/6.3V.8*10 RVO-6V471MG10P2U-R2 ELNA	D050471081330S	1		
C3790	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C3792	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C3795	nsp	X7R)1UF-K/10V-1608REEL	D011105772161S	1		
C3797	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C3799	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
C3804	nsp	X7R)0.1UF-K/16V-1005REEL	D011104177101S	1		
<b>OTHER PARTS GROUP</b>						
K2201	963646012340S	RCA-206A-07 NI SHIELD(BK,BK)	G601206A0700YS	1		
K3002	00D9630244703	EARPHONE JACK PJ-308-02	G40130802000YS	1		
L1251-1253	nsp	0-J.1/10W-2012REEL	C200000060200S	3		
L1301-1313	nsp	BLM21PG221SN1 220ohm 2A SMD2012 TYPE	D340201212210S	13		
L1602	nsp	BLM21PG221SN1 220ohm 2A SMD2012 TYPE	D340201212210S	1		
L1605-1609	nsp	BLM21PG221SN1 220ohm 2A SMD2012 TYPE	D340201212210S	5		
L1611-1615	nsp	BLM21PG221SN1 220ohm 2A SMD2012 TYPE	D340201212210S	5		
L1617-1619	nsp	BLM21PG221SN1 220ohm 2A SMD2012 TYPE	D340201212210S	3		
L1801	nsp	BLM21PG221SN1 220ohm 2A SMD2012 TYPE	D340201212210S	1		
L2601-2603	nsp	BLM21PG221SN1 220ohm 2A SMD2012 TYPE	D340201212210S	3		
L2801,2802	nsp	DLW21SN900HQ2L COMMON MODE CHOKE COILS SMD2012	D311201219000S	2		
L2804	nsp	0-J.1/10W-2012REEL	C200000060200S	1		
L2806	nsp	DLW21SN181SQ2L COMMON MODE CHOKE COILS SMD2012	D311201211810S	1		
L2807-2810	963115100320S	CBW201209U221T 220ohm SMD2012 TYPE	D340201202210S	4		
L3401-3404	nsp	0-J.1/10W-2012REEL	C200000060200S	4		
L3601-3610	nsp	0-J.1/10W-2012REEL	C200000060200S	10		
L3613-3622	nsp	0-J.1/10W-2012REEL	C200000060200S	10		
L3625-3627	nsp	BLM21PG221SN1 220ohm 2A SMD2012 TYPE	D340201212210S	3		
L3628,3629	nsp	CBW160808U121T 120ohm SMD1608 TYPE	D340160811210S	2		
N1001-1004	963612504750D	AD3PBC19G0-T 3ROW 19P DIP HDMICON R/A W/FLANGE	L109100190190S	4		
N1251	963643102090S	AD3PB19G0-REV. B 3ROW 19P DIP HDMICON R/A W/O FLNG	L109100190170S	1		
N1252	nsp	1.0-16-23PB-2 23P ST SMT (JSY)	L130100162330S	1		
N1301	nsp	1.0-16-23PB-2 23P ST SMT (JSY)	L130100162330S	1		
N1302,1303	963612504750D	AD3PBC19G0-T 3ROW 19P DIP HDMICON R/A W/FLANGE	L109100190190S	2		
N1601	nsp	1.0-16-7PB-2 7P ST SMT (JSY)	L130100160730S	1		
N1602	963612504750D	AD3PBC19G0-T 3ROW 19P DIP HDMICON R/A W/FLANGE	L109100190190S	1		
N2001	nsp	1.0-16-10PB-2 10P ST SMT (JSY)	L130100161030S	1		
N2201	nsp	1.0-16-7PB-2 7P ST SMT (JSY)	L130100160730S	1		
N2601	nsp	1.0-16-7PB-2 7P ST SMT (JSY)	L130100160730S	1		
N2602	nsp	1.0-16-6PB-2 6P ST SMT (JSY)	L130100160630S	1		
N2801	nsp	20010WS-05A00 DIP5P STRAIGHT	L101200100510S	1		
N2802	963643100130S	RJ45 1*1W/TRANSFORMER W/O LED 99TA-03188400023101	G4060R.J450120S	1		
N3001	nsp	1.0-16-7PB-2 7P ST SMT (JSY)	L130100160730S	1		
N3002	nsp	1.0-16-11PB-2 11P ST SMT (JSY)	L130100161130S	1		
N3401	nsp	C125Z2-13 13P BtoB SOCKET(FEMALE) P=1.25MM	L109012521320S	1		
N3403	nsp	C125Z2-31 31P BtoB SOCKET(FEMALE) P=1.25MM	L109012523120S	1		
N3404	nsp	C125Z2-13 13P BtoB SOCKET(FEMALE) P=1.25MM	L109012521320S	1		
N3405	nsp	20010WS-05A00 DIP5P STRAIGHT	L101200100510S	1		
N3406	nsp	C125Z2-07 7P BtoB SOCKET(FEMALE) P=1.25MM	L109012520720S	1		
N3407	nsp	C125Z2-25 25P BtoB SOCKET(FEMALE) P=1.25MM	L109012522520S	1		
N3408	nsp	1.0-15-40PB 40P VER SMT	L130100154030S	1		
N3601	nsp	SMW250-5P DIP ST	L102050010040S	1		
X1301	963141100910S	27.000MHz CL=7PF XS-3225 SMD3225 ECEC	E80527R000090S	1		
X1601	963141100910S	27.000MHz CL=7PF XS-3225 SMD3225 ECEC	E80527R000090S	1		
X2001	963141100930S	21.875MHz CL=8PF XS-3225 SMD3225 ECEC	E80521R875090S	1		
X2201	963141100940S	24.576MHz CL=10PF XS-3225 SMD3225 ECEC	E80524R576190S	1		
X2601	963141100950S	24.000MHz CL=8PF XS-3225 SMD3225 ECEC	E80524R000190S	1		
X3001	963141100960S	12.000MHz CL=10PF XG-5032 SMD5032 ECEC	E80512R000290S	1		
★	nsp	SR5007U1B SPTH 10.5 /HDMI	4010215566000S	1		

HDAM PCB ASS'Y

※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 : North America model N : Europe model K : China model F : Japan model  
 B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
<b>SEMICONDUCTORS GROUP</b>						
D4020-4035	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	16	
IC4000-4007	963232100390S	NJM8080G SOP8 DUAL OP AMP		J12180800010S	8	
Q4050-4051	00D9630148508	KTA1504S-Y 0.15W SOT-23 REEL		J520015040150S	2	
Q4052-4055	00D2730464901	KTC3875G(ALG) 0.15W/SMT-REEL		J5223875G0210S	4	
Q4056-4059	00D9630148508	KTA1504S-Y 0.15W SOT-23 REEL		J520015040150S	4	
Q4060-4063	00D2730464901	KTC3875G(ALG) 0.15W/SMT-REEL		J5223875G0210S	4	
Q4064-4067	00D9630148508	KTA1504S-Y 0.15W SOT-23 REEL		J520015040150S	4	
Q4068-4071	00D2730464901	KTC3875G(ALG) 0.15W/SMT-REEL		J5223875G0210S	4	
Q4072-4075	00D9630148508	KTA1504S-Y 0.15W SOT-23 REEL		J520015040150S	4	
Q4076-4079	00D2730464901	KTC3875G(ALG) 0.15W/SMT-REEL		J5223875G0210S	4	
Q4080-4083	00D9630148508	KTA1504S-Y 0.15W SOT-23 REEL		J520015040150S	4	
Q4084-4087	00D2730464901	KTC3875G(ALG) 0.15W/SMT-REEL		J5223875G0210S	4	
Q4088-4091	00D9630148508	KTA1504S-Y 0.15W SOT-23 REEL		J520015040150S	4	
Q4092-4095	00D2730464901	KTC3875G(ALG) 0.15W/SMT-REEL		J5223875G0210S	4	
Q4096-4097	00D9630148508	KTA1504S-Y 0.15W SOT-23 REEL		J520015040150S	2	
<b>RESISTOR GROUP</b>						
R4153	nsp	470-J,1/16W-1608REEL		C20004716M160S	1	
R4154	nsp	0-J,1/10W-1608REEL		C200000060161S	1	
R4155,4156	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R4157	nsp	0-J,1/10W-1608REEL		C200000060161S	1	
R4158	nsp	470-J,1/16W-1608REEL		C20004716M160S	1	
R4159,4160	nsp	33K-J,1/16W-1608REEL		C20003336M160S	2	
R4161,4162	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R4163,4164	nsp	330-J,1/16W-1608REEL		C20003316M160S	2	
R4165,4166	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	2	
R4167,4168	nsp	22-J,1/16W-1608REEL		C20002206M160S	2	
R4169,4170	nsp	0-J,1/10W-1608REEL		C200000060161S	2	
R4171,4172	nsp	100-J,1/16W-1608REEL		C20001016M160S	2	
R4173,4174	nsp	22-J,1/16W-1608REEL		C20002206M160S	2	
R4175	nsp	330-J,1/16W-1608REEL		C20003316M160S	1	
R4176	nsp	22-J,1/16W-1608REEL		C20002206M160S	1	
R4177	nsp	330-J,1/16W-1608REEL		C20003316M160S	1	
R4178	nsp	22-J,1/16W-1608REEL		C20002206M160S	1	
R4181,4182	nsp	1M-J,1/16W-1608REEL		C20001056M160S	2	
R4183,4184	nsp	33K-J,1/16W-1608REEL		C20003336M160S	2	
R4185,4186	nsp	22-J,1/16W-1608REEL		C20002206M160S	2	
R4187,4188	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	2	
R4189,4190	nsp	330-J,1/16W-1608REEL		C20003316M160S	2	
R4191-4194	nsp	470-J,1/16W-1608REEL		C20004716M160S	4	
R4195,4196	nsp	330-J,1/16W-1608REEL		C20003316M160S	2	
R4197,4198	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	2	
R4199,4200	nsp	22-J,1/16W-1608REEL		C20002206M160S	2	
R4201	nsp	1M-J,1/16W-1608REEL		C20001056M160S	1	
R4203	nsp	1M-J,1/16W-1608REEL		C20001056M160S	1	
R4205,4206	nsp	33K-J,1/16W-1608REEL		C20003336M160S	2	
R4207,4208	nsp	330-J,1/16W-1608REEL		C20003316M160S	2	
R4209,4210	nsp	100-J,1/16W-1608REEL		C20001016M160S	2	
R4211,4212	nsp	22-J,1/16W-1608REEL		C20002206M160S	2	
R4213,4214	nsp	0-J,1/10W-1608REEL		C200000060161S	2	
R4215-4218	nsp	22-J,1/16W-1608REEL		C20002206M160S	4	
R4219,4220	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	2	
R4221,4222	nsp	330-J,1/16W-1608REEL		C20003316M160S	2	
R4223,4224	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R4225,4226	nsp	33K-J,1/16W-1608REEL		C20003336M160S	2	
R4227	nsp	470-J,1/16W-1608REEL		C20004716M160S	1	
R4228	nsp	0-J,1/10W-1608REEL		C200000060161S	1	
R4229,4230	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R4231	nsp	0-J,1/10W-1608REEL		C200000060161S	1	
R4232,4233	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R4234	nsp	0-J,1/10W-1608REEL		C200000060161S	1	
R4235,4236	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R4237	nsp	0-J,1/10W-1608REEL		C200000060161S	1	
R4238	nsp	470-J,1/16W-1608REEL		C20004716M160S	1	
R4239,4240	nsp	33K-J,1/16W-1608REEL		C20003336M160S	2	
R4241,4242	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R4243,4244	nsp	330-J,1/16W-1608REEL		C20003316M160S	2	
R4245,4246	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	2	
R4247,4248	nsp	22-J,1/16W-1608REEL		C20002206M160S	2	
R4249,4250	nsp	0-J,1/10W-1608REEL		C200000060161S	2	
R4251,4252	nsp	100-J,1/16W-1608REEL		C20001016M160S	2	
R4253,4254	nsp	22-J,1/16W-1608REEL		C20002206M160S	2	
R4255	nsp	330-J,1/16W-1608REEL		C20003316M160S	1	
R4256	nsp	22-J,1/16W-1608REEL		C20002206M160S	1	
R4257	nsp	330-J,1/16W-1608REEL		C20003316M160S	1	
R4258	nsp	22-J,1/16W-1608REEL		C20002206M160S	1	
R4261,4262	nsp	1M-J,1/16W-1608REEL		C20001056M160S	2	
R4263,4264	nsp	33K-J,1/16W-1608REEL		C20003336M160S	2	
R4265,4266	nsp	22-J,1/16W-1608REEL		C20002206M160S	2	
R4267,4268	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	2	
R4269,4270	nsp	330-J,1/16W-1608REEL		C20003316M160S	2	
R4271-4274	nsp	470-J,1/16W-1608REEL		C20004716M160S	4	
R4275,4276	nsp	330-J,1/16W-1608REEL		C20003316M160S	2	
R4277,4278	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	2	
R4279,4280	nsp	22-J,1/16W-1608REEL		C20002206M160S	2	
R4281	nsp	1M-J,1/16W-1608REEL		C20001056M160S	1	
R4283	nsp	1M-J,1/16W-1608REEL		C20001056M160S	1	
R4285,4286	nsp	33K-J,1/16W-1608REEL		C20003336M160S	2	
R4287,4288	nsp	330-J,1/16W-1608REEL		C20003316M160S	2	
R4289,4290	nsp	100-J,1/16W-1608REEL		C20001016M160S	2	
R4291,4292	nsp	22-J,1/16W-1608REEL		C20002206M160S	2	
R4293,4294	nsp	0-J,1/10W-1608REEL		C200000060161S	2	
R4295-4298	nsp	22-J,1/16W-1608REEL		C20002206M160S	4	

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
R4299,4300	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	2		
R4301,4302	nsp	330-J,1/16W-1608REEL		C20003316M160S	2		
R4303,4304	nsp	470-J,1/16W-1608REEL		C20004716M160S	2		
R4305,4306	nsp	33K-J,1/16W-1608REEL		C20003336M160S	2		
R4307	nsp	470-J,1/16W-1608REEL		C20004716M160S	1		
R4308	nsp	0-J,1/10W-1608REEL		C20000060161S	1		
R4309,4310	nsp	470-J,1/16W-1608REEL		C20004716M160S	2		
R4311	nsp	0-J,1/10W-1608REEL		C20000060161S	1		
R4312	nsp	470-J,1/16W-1608REEL		C20004716M160S	1		
R4313,4314	nsp	0-J,1/10W-1608REEL		C20000060161S	2		
<b>CAPACITORS GROUP</b>							
C4065,4066	00D2544541939	47UF-M/25V 5*11-5RE.SMS SY		D040470084070S	2		
C4067,4068	nsp	COG100PF-J/50V-1608REEL		D010101167160S	2		
C4071,4072	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2		
C4073,4074	nsp	COG470PF-J/50V-1608REEL		D010471167160S	2		
C4075,4076	nsp	COG100PF-J/50V-1608REEL		D010101167160S	2		
C4077-4084	963134501750S	220UF-M/25V,6*11(SHL TYPE) SY		D040221084600S	8		
C4085,4086	nsp	COG470PF-J/50V-1608REEL		D010471167160S	2		
C4087,4088	nsp	COG100PF-J/50V-1608REEL		D010101167160S	2		
C4089,4090	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2		
C4093,4094	nsp	COG100PF-J/50V-1608REEL		D010101167160S	2		
C4095-4098	00D2544541939	47UF-M/25V 5*11-5RE.SMS SY		D040470084070S	4		
C4099,4100	nsp	COG100PF-J/50V-1608REEL		D010101167160S	2		
C4103,4104	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2		
C4105,4106	nsp	COG470PF-J/50V-1608REEL		D010471167160S	2		
C4107,4108	nsp	COG100PF-J/50V-1608REEL		D010101167160S	2		
C4109-4116	963134501750S	220UF-M/25V,6*11(SHL TYPE) SY		D040221084600S	8		
C4117,4118	nsp	COG470PF-J/50V-1608REEL		D010471167160S	2		
C4119,4120	nsp	COG100PF-J/50V-1608REEL		D010101167160S	2		
C4121,4122	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2		
C4125,4126	nsp	COG100PF-J/50V-1608REEL		D010101167160S	2		
C4127,4128	00D2544541939	47UF-M/25V 5*11-5RE.SMS SY		D040470084070S	2		
<b>OTHER PARTS GROUP</b>							
CN4605	nsp	C125Z2-17 17P BtoB SOCKET(FEMALE) P=1.25MM		L109012521720S	1		
CN4703	nsp	C125Z2-07 7P BtoB SOCKET(FEMALE) P=1.25MM		L109012520720S	1		
CN4704	nsp	C125Z2-15 15P BtoB SOCKET(FEMALE) P=1.25MM		L109012521520S	1		

## PREOUT PCB ASS'Y

※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 : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
<b>SEMICONDUCTORS GROUP</b>						
D5617	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1	
IC5600	943239010400S	NJM2845DL1-33 3.3V TO-252-3 LOW-DROP VOL REGULATOR		J126284533010S	1	
IC5601	963232100390S	NJM8080G SOP8 DUAL OP AMP		J121808000010S	1	
Q5600-5606	943214500030S	INC2001AC1 0.2W/SC-59 ISAHAYA		J522020011210S	7	
Q5616-5624	943214500030S	INC2001AC1 0.2W/SC-59 ISAHAYA		J522020011210S	9	
Q5625,5626	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	2	
Q5627	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q5628	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1	
Q5629	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q5630	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
<b>RESISTOR GROUP</b>						
R5600-5607	nsp	470-J,1/16W-1608REEL		C20004716M160S	8	
R5608-5615	nsp	820K-J,1/16W-1608REEL		C20008246M160S	8	
R5616	nsp	1K-J,1/5W-52RE-AX		C00001026P520S	1	
R5617,5618	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2	
R5619,5620	nsp	1K-J,1/5W-52RE-AX		C00001026P520S	2	
R5621,5622	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2	
R5623,5624	nsp	1K-J,1/5W-52RE-AX		C00001026P520S	2	
R5625	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R5626	nsp	1K-J,1/5W-52RE-AX		C00001026P520S	1	
R5627,5628	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2	
R5629	nsp	1K-J,1/5W-52RE-AX		C00001026P520S	1	
R5638-5646	nsp	470K-J,1/16W-1608REEL		C20004746M160S	9	
R5647	nsp	470-J,1/16W-1608REEL		C20004716M160S	1	
R5650,5651	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R5654,5655	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R5657	nsp	470-J,1/16W-1608REEL		C20004716M160S	1	
R5660,5661	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R5664,5665	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R5666,5667	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2	
R5668,5669	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R5670	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R5672,5673	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R5674	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R5675	nsp	470-J,1/16W-1608REEL		C20004716M160S	1	
R5676,5677	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2	
R5678,5679	nsp	470-J,1/16W-1608REEL		C20004716M160S	2	
R5680,5681	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2	
R5682	nsp	470-J,1/16W-1608REEL		C20004716M160S	1	
R5683-5700	nsp	100K-J,1/16W-1608REEL		C20001046M160S	18	
R5701-5709	nsp	220-J,1/16W-1608REEL		C20002216M160S	9	
R5712,5713	nsp	100K-J,1/16W-1608REEL		C20001046M160S	2	
R5714,5715	nsp	100-J,1/16W-1608REEL		C20001016M160S	2	
R5716,5717	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2	
R5718	nsp	100-J,1/5W-52RE-AX		C00001016P520S	1	
R5719	nsp	100-J,1/16W-1608REEL		C20001016M160S	1	
R5720	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1	
R5721,5722	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2	
R5723	nsp	3.3K-J,1/16W-1608REEL		C20003326M160S	1	
R5724-5726	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	3	
R5727	nsp	4.7K-J,1/5W-52RE-AX		C00004726P520S	1	
R5728	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1	
R5729,5730	nsp	100K-J,1/16W-1608REEL		C20001046M160S	2	
R5731,5732	nsp	220-J,1/5W-52RE-AX		C00002216P520S	2	
R5733,5734	nsp	470-J,1/5W-52RE-AX		C00004716P520S	2	
R5735	nsp	47-J,1/16W-1608REEL		C20004706M160S	1	
R5736	nsp	47K-J,1/16W-1608REEL		C20004736M160S	1	
R5737	nsp	18K-J,1/16W-1608REEL		C20001836M160S	1	
R5740	nsp	47-J,1/16W-1608REEL		C20004706M160S	1	
<b>CAPACITORS GROUP</b>						
C5600-5603	nsp	X7R1000PF-K/50V-1608REEL		D011102777160S	4	
C5604-5611	nsp	COG330PF-J/50V-1608REEL		D010331167160S	8	
C5620-5637	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	18	
C5638-5646	nsp	COG330PF-J/50V-1608REEL		D010331167160S	9	
C5647-5651	nsp	X7R 0.01UF-K/50V-1608REEL		D010103777160S	5	
C5652,5653	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	2	
C5654,5655	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2	
C5657	nsp	X7R1UF-K/16V-1608REEL		D011105173161S	1	
C5663	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1	
C5666	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C5667-5670	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	4	
C5671	nsp	X7R)2.2U-K/16V-1608REEL		D011105173161S	1	
C5673	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	1	
C5674,5675	nsp	COG470PF-J/50V-1608REEL		D010471167160S	2	
C5676-5679	nsp	X7R0.1UF-K/50V-1608REEL		D011104577160S	4	
<b>OTHER PARTS GROUP</b>						
CN5600	nsp	200MM/13P 20010HS-13-CKM2002HV-13 WH1007#26		L002201130010S	1	
CN5601	nsp	C125Z2-21 21P BtoB SOCKET(FEMALE) P=1.25MM		L109012522120S	1	
CN5602	nsp	C125Z2-15 15P BtoB SOCKET(FEMALE) P=1.25MM		L109012521520S	1	
CP5600	nsp	C125Z1-13 13P BtoB HEADER(MALE) P=1.25MM		L109012511320S	1	
CP5601	nsp	C125Z1-11 11P BtoB HEADER(MALE) P=1.25MM		L109012511120S	1	
CP5602,5603	nsp	C125Z1-07 7P BtoB HEADER(MALE) P=1.25MM		L109012510720S	2	
CP5604,5605	nsp	C125Z1-15 15P BtoB HEADER(MALE) P=1.25MM		L109012511520S	2	
J5600-5602	nsp	JUMPER (0.6/52MM)		L045084006040S	3	
J5604-5613	nsp	JUMPER (0.6/52MM)		L045084006040S	10	
JACK5600	963646012090S	RCA-206B-02(OR,OR)		G601206B0200YS	1	
JACK5601	963643012080M	DIN-901B(MXJACK)		G403901B0000YS	1	
JACK5611	00D9630132103	RCA-405B-04(WH,WH,RD,RD)-YUQIU		G602405B0400YS	1	
JACK5612	00D963014600S	RCA-107A(BK)		G600107A0000YS	1	
JACK5613	00D9630387505	RCA-405B-55(WH,WH,RD,BK)-YUQIU		G602405B5500YS	1	
JACK5614	00D9630132103	RCA-405B-04(WH,WH,RD,RD)-YUQIU		G602405B0400YS	1	
JACK5615	00D9630387505	RCA-405B-55(WH,WH,RD,BK)-YUQIU		G602405B5500YS	1	

## EXPLODE PCB ASS'Y

※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 : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver	
P1	nsp	PCB H/P ASSY		7028073933010	1		
P3	nsp	PCB USB ASSY		7028073932010	1		
P4	nsp	PCB FRONT ASSY		7028073931010	1		
P6	nsp	PCB INPUT/DAM CNT		7028073912010	1		
P7	nsp	PCB HDAM ASSY		7028073921010	1		
P8	nsp	PCB AMP ASSY		7028072971060	1		
P9	nsp	PCB GUIDE TOP		7028073936010	1		
P10	nsp	PCB GUIDE L		7028073934010	1		
P11	nsp	PCB FH GUIDE		7028073937010	1		
P12	nsp	PCB MAIN	U	7028072921060	1		
P12	nsp	PCB MAIN	N	7028072921070	1		
P12	nsp	PCB MAIN	K	7028072921080	1		
P13	nsp	PCB INPUT		7028072951060	1		
P14	nsp	PCB FRONT CNT		7028072942060	1		
P15	nsp	PCB RS232C ASSY		7028072943060	1		
P16	9U6391012800M	PCB HDMI ASSY	U	7028072981060	1		
P16	9U6391012900M	PCB HDMI ASSY	N	7028072981070	1		
P16	9U6391013000M	PCB HDMI ASSY	K	7028072981080	1		
P2	-	PCB FRONT HDMI ASSY		7028072982060	1		
P17	nsp	PCB RC5 MX		7028073913010	1		
P18	nsp	PCB SMPS ASSY	U	7028072961060	1		
P18	nsp	PCB SMPS ASSY	N/K	7028072961070	1		
P19	nsp	PCB VIDEO ASSY		7028072941060	1		
P20	nsp	PCB PREOUT ASSY		7028073911010	1		
1	963412100780M	KNOB FUN	BK	5080212691000S	2		
1	963412100790M	KNOB FUN	SG	5087212691100S	2		
2	963421006200M	BADGE		5630210678000S	1		
3	943424100270M	DECORATION RING	BK	5127210981000S	2		
3	943424100280M	DECORATION RING	SG	5127210981100S	2		
4	00M10BW355010	LENS POWER		3710211083000S	1		
5	411510021005M	BUTTON POWER	BK	5090213961000S	1		
5	963411012000M	BUTTON POWER	SG	5097213961100S	1		
6	943423100290M	LENS BUTTON		3710211183000S	2		
7	416510046009M	WINDOW DISPLAY		5070213183000S	1		
8	416510047101M	SHEET WINDOW		1217211562000S	1		
9	943424100250M	HOLDER WINDOW	BK	4320211091000S	1		
9	943424100260M	HOLDER WINDOW	SG	4320211091100S	1		
10	nsp	DECORATION WINDOW		5120210991000S	1		
11	nsp	PLATE RCA		4470212216000S	1		
12	nsp	PLATE USB		4470212206000S	2		
13	943411101410M	BUTTON 9KEY	BK	5097214711000S	1		
13	943411101420M	BUTTON 9KEY	SG	5097214711100S	1		
14	nsp	HOLDER REMOCON		4320211081000S	1		
15	481510019100M	LENS REMOCON		3710211173000S	1		
16	963402104120M	PANEL FRONT	U1B	3067215281220S	1	*	Ver.2
16	963402104130M	PANEL FRONT	N1B/K1B	3067215281230S	1	*	Ver.2
16	963402104140M	PANEL FRONT	N1SG	3067215281310S	1	*	Ver.2
17	943419100320M	COVER RCA ASS'Y	BK	4318215411010	1		
17	943419100330M	COVER RCA ASS'Y	SG	4318215411110	1		
19	nsp	CLAMP		4330000310000S	1		
20	nsp	CUSHION SCREW		4050213025000S	3		
21	nsp	CUSHION CABINET SIDE		4050214795000S	2		
22	90M46BW056010	CUSHION FOOT		4050211175000S	4		
23	00M46BW057210	FOOT		4007210321000S	4		
24	nsp	CHASSIS MAIN		3200214626100S	1		
25	nsp	SUPPORT PCB		4070001601010S	2		
28	nsp	CHASSIS BACK	U	3207214636400S	1		
28	nsp	CHASSIS BACK	N	3207214636500S	1		
28	nsp	CHASSIS BACK	K	3207214636510S	1		
29	nsp	SHEET RATING		1210211909000S	1		
30	nsp	SHEET HIMELON		1210211629000S	3		
!	963101101570S	TRANS MAIN	U	8200960660850S	1		
!	963101101580S	TRANS MAIN	N	8200960660860S	1		
!	963101101590S	TRANS MAIN	K	8200960660870S	1		
32	nsp	BRACKET PCB		4010056906010S	5		
33	nsp	HEATSINK MAIN		2120212048000S	1		
34	nsp	SHEET GRAY TOP		1210211362000S	1		
35	nsp	WASHER		1530210126000S	3		
42	nsp	BRACKET SMPS		401021488600DS	1		
43	963403100710D	CABINET TOP	U1B, N1B, K1B	3007212026000S	1	Ver.3	
43	963403100720D	CABINET TOP	N1SG	3007212026010S	1	Ver.3	
A	nsp	SCREW(+2S 3X10 ZNW/BH)		B020030101B10S	31		
B	nsp	SCREW(+2S 3X6 ROUND BK/BH)		B020230063B10S	1		
C	nsp	SCREW(+2S 3X8 ZNW/BH)		B020030081B10D	26		
C	nsp	SCREW(+2S 3X8 WASHER PI 12 ZNW/BH)		B020030081B10D	4		
C	nsp	G121162400040S NUT		B020030081B10D	10		
D	nsp	SCREW(+3S 4X10 P+S WASHER ROUND ZNW/BH)		1500001456010S	1		
F	nsp	G121162400040S NUT		-			
G	nsp	SCREW(+2S 3X14 P+S WASHER ZNW/HH)		B028940101B11S	4		
H	nsp	SCREW(+2S 3X17 ZNW/BH)		B018230141H11D	21		
I	nsp	SCREW(+2S 4X8 BK/BH DOT)		B020030171B10S	2		
J	nsp	SCREW(+2S 4X8 NI/BH DOT)		1500040083B10S	8		
K	nsp	SCREW(+2S 3X10 BK/BH DOT)		B020030103B11S	31		
L	nsp	SCREW(+3S 3X6(DOT))BK/BH		B020930063B10S	11		
Q404	00D9630235301	2SD2560Y TOP3P 130W 15A/MICA-STRAIGHT		J5032560Y0170S	1		
Q409	963219003340S	KTC3964/TO126S-BULK		J502396400010S	1		
Q410	00D9630235204	2SB1647Y TO3P/130W 15A(WITH MICA)		J5011647Y0170S	1		
Q416	00D9630235301	2SD2560Y TOP3P 130W 15A/MICA-STRAIGHT		J5032560Y0170S	1		
Q421	963219003340S	KTC3964/TO126S-BULK		J502396400010S	1		
Q422	00D9630235204	2SB1647Y TO3P/130W 15A(WITH MICA)		J5011647Y0170S	1		
Q428	00D9630235301	2SD2560Y TOP3P 130W 15A/MICA-STRAIGHT		J5032560Y0170S	1		
Q433	963219003340S	KTC3964/TO126S-BULK		J502396400010S	1		
Q434	00D9630235204	2SB1647Y TO3P/130W 15A(WITH MICA)		J5011647Y0170S	1		

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
Q440	00D9630235301	2SD2560Y TOP3P 130W 15A/MICA-STRAIGHT		J5032560Y0170S	1		
Q445	963219003340S	KTC3964/TO126S-BULK		J502396400010S	1		
Q446	00D9630235204	2SB1647Y TO3P/130W 15A(WITH MICA)		J5011647Y0170S	1		
Q452	00D9630235301	2SD2560Y TOP3P 130W 15A/MICA-STRAIGHT		J5032560Y0170S	1		
Q457	963219003340S	KTC3964/TO126S-BULK		J502396400010S	1		
Q458	00D9630235204	2SB1647Y TO3P/130W 15A(WITH MICA)		J5011647Y0170S	1		
Q464	00D9630235301	2SD2560Y TOP3P 130W 15A/MICA-STRAIGHT		J5032560Y0170S	1		
Q469	963219003340S	KTC3964/TO126S-BULK		J502396400010S	1		
Q470	00D9630235204	2SB1647Y TO3P/130W 15A(WITH MICA)		J5011647Y0170S	1		
Q476	00D9630235301	2SD2560Y TOP3P 130W 15A/MICA-STRAIGHT		J5032560Y0170S	1		
Q481	963219003340S	KTC3964/TO126S-BULK		J502396400010S	1		
Q482	00D9630235204	2SB1647Y TO3P/130W 15A(WITH MICA)		J5011647Y0170S	1		
★	nsp	SR6007U1B(MARANTZ) SPTH t0.5(CMD1A793) A4/FLT		4328211106000	1		
★	nsp	CABLE TIE DACT-100A		4330040343010S	6		
★	nsp	3*8(ROUND)(DA CHENG) BK/BH		B020230083B10D	8		
★	nsp	() NITTO #500,10MM*50M DOUBLE		A710000520000S	0.15		

## PACKING PCB ASS'Y

※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 : North America model N : Europe model K : China model F : Japan model

B : Black model SG : Silver gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
2	96353310200M	CUSHION SNOW		6230213504000S	1	
3	nsp	PE,SHEET		6327040059000S	1	
4	30701014400AM	REMOCON		8300021000040S	1	
5	nsp	POLY BAG		6337000240010S	1	
6	nsp	LABEL COLOR SG	SG	5507000004600S	2	
8	nsp	LABEL SHIPPING		5507000013420S	1	
9	nsp	POP LABEL	U	5507000013520S	1	
9	nsp	POP LABEL	N	5507000013530S	1	
9	nsp	POP LABEL	K	5507000013540S	1	
10	nsp	LABEL POWER SW	K	5507000005270S	1	
11	54111102600AM	SIMPLE MANUAL	U	5707000008240S	1	
11	54111102700AM	SIMPLE MANUAL	N	5707000008250S	1	
11	54111102800AM	SIMPLE MANUAL	K	5707000008260S	1	
12	35201022800AM	CDROM MANUAL	U	6517000001480S	1	
12	35201022900AM	CDROM MANUAL	N	6517000001490S	1	
12	35201023100AM	CDROM MANUAL	K	6517000001510S	1	
13	nsp	CARD WARRANTY	U	5727000000112S	1	
13	nsp	CARD WARRANTY	K	5727000000301S	1	
14	nsp	CARD WARRANTY(CANADA)	U	5727041650142S	1	
15	54311026900AM	SAFETY SHEET	U	5227000007980S	1	
15	54311026900AM	SAFETY SHEET	N	5227000007990S	1	
15	54311026900AM	SAFETY SHEET	K	5227000008000S	1	
16	nsp	LAST FM LABEL	N	5507000009901S	1	
17	nsp	CARD PASS	K	5777000000020S	1	
18	nsp	SIRIUS XM LABEL	U	5507000009891S	1	
19	32401000800AD	MIC CONDENSER		M040000310080S	1	
21	nsp	TAPE PACKING		1220210772000S	1.5	
22	nsp	BATTERY		G670001R50241S	2	
23	963116100080S	ANTENA WIRE(FM)		E605010140020S	1	
25	nsp	BUSHING	N/K	2410040353010S	1	
26	963531103930M	BOX		6007212470040S	1	*
29	963419100540D	SPEAKER WIRE LABEL		5507000011980S	1	
★	963116100070S	ANT AM LOOP STAND-STRIP 9.5UH BK1691#24 WH-STRAP		E601019000030S	1	
★	nsp	AVRE400BKE3(DENON) 20mmx66m yellow tape		1220211609000S	0.8	
!	★	90M-ZC000470R 13A/125V ME302/VAC17S SJT 16AWG*2C 1.8M WH-STRAP	U	L068125130020S	1	
!	★	90M-ZC000600R 16A/250V M3204/VAC17S H05VVVF2C*1MM 1.8M WHSTRAP	N	L068250160120S	1	
!	★	963611004880S 10A/250V V301C/VAC17S RVV300/500 1.83M WHSTRAP	K	L068250100150S	1	
★	544510081006M	AVR-1910(E3) HOT-SURFACE		5507000003730S	1	