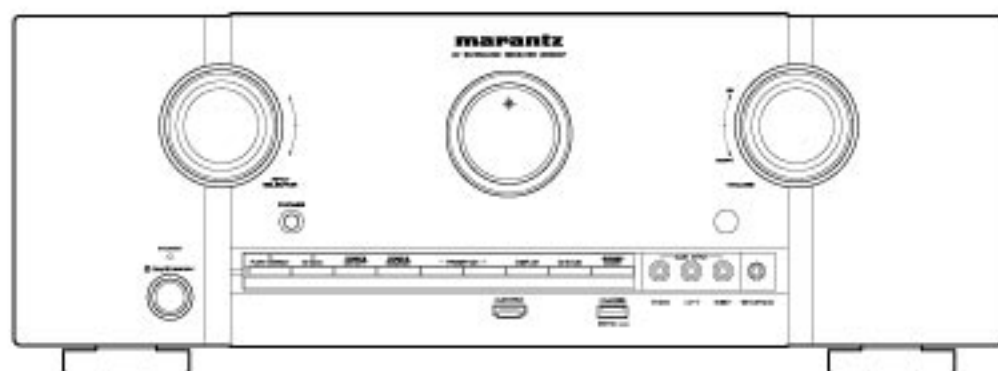


Service Manual

SR5007 /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®

SR5007

Ver.5

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.

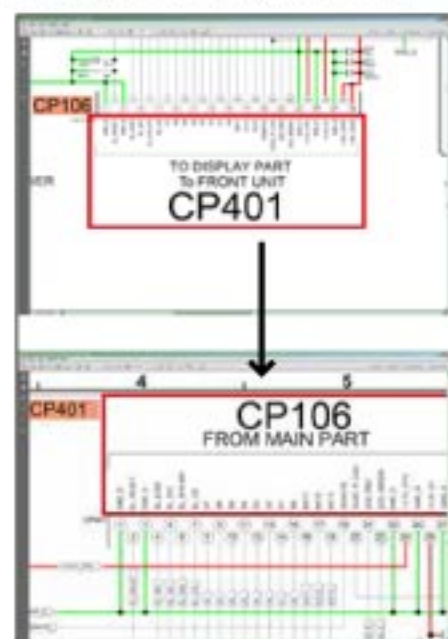


3. Click an item on the list.
 - The screen jumps to the page for that item, and the search phrase is displayed.

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)

[Example using Adobe Reader 9,X]

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

- The selected area is magnified.



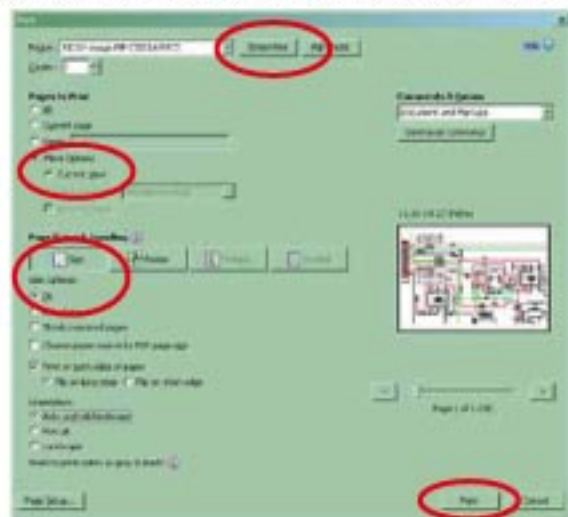
- When you want to move the area shown, hold down **Space** and drag the mouse.

- 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)

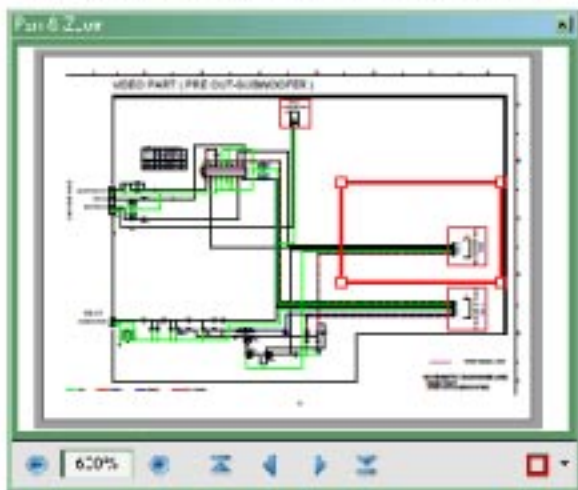
The Pan & Zoom function lets you see which part of a magnified diagram is being shown in a separate window.

[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".

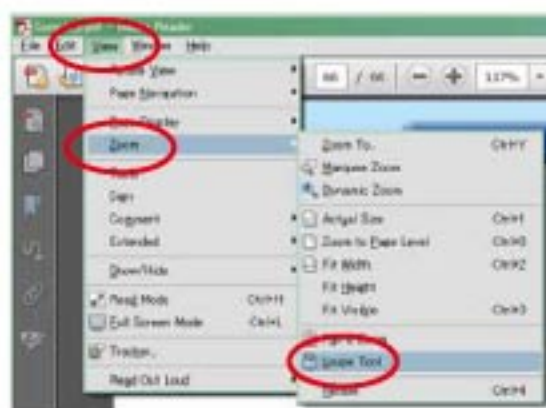
Magnify schematic / printed wiring board diagrams - 3

(Loupe Tool function)

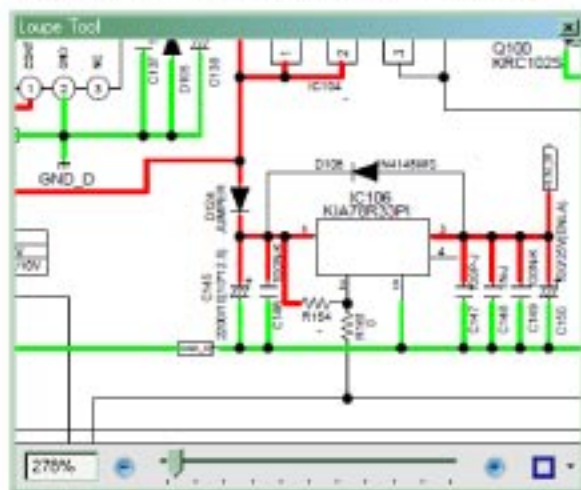
The Loupe Tool function lets you magnify a specific part of a diagram in a separate window.

[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".

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

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

ORDERING PARTS :

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

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

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

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NOTE ON SAFETY :

Symbol  Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol .
Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 :

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

SHOCK, FIRE HAZARD SERVICE TEST :

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

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

Ref. UL Standard No. 60065.

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

SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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

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

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

ⓘ Heed the cautions!

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

ⓘ Cautions concerning electric shock!

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

ⓘ Caution concerning disassembly and assembly!

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

ⓘ Use only designated parts!

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). Be sure to use parts which have the same properties for replacement. The burrs have the same properties. In particular, for the important safety parts that are indicated by the ⚠ 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 1MΩ 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 ⚠ mark.
- (2) Parts lists.....Indicated by the ⚠ 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  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 milliamperes, 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 "I" and "1" (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 in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

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

TECHNICAL SPECIFICATIONS

Audio Section

Power amplifier

Rated output:

Front :
100 W + 100 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)
Center :
100 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)
Surround :
100 W + 100 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)
Surround back :
100 W + 100 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)

Maximum effective output power:

Front :
150 W + 150 W (6 Ω, 1 kHz with 10 % T.H.D.)
Center :
150 W (6 Ω, 1 kHz with 10 % T.H.D.)
Surround :
150 W + 150 W (6 Ω, 1 kHz with 10 % T.H.D.)
Surround back :
150 W + 150 W (6 Ω, 1 kHz with 10 % T.H.D.)

Output connectors: 6 – 8 Ω

Analog

Input sensitivity/Input impedance: 200 mV/47 kΩ

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

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

Color component video connector

Input/output level and impedance:

Y (brightness) signal — 1 Vp-p, 75 Ω

Pb / Cr signal — 0.7 Vp-p, 75 Ω

Pr / Cb signal — 0.7 Vp-p, 75 Ω

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

Tuner section

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

Receiving Range (for U model):

[FM] 87.5 MHz – 107.9 MHz

Receiving Range (for N, K model):

[FM] 87.5 MHz – 108.0 MHz

Usable Sensitivity:

[FM] 1.2 μV (12.8 dBf)

50 dB Quieting Sensitivity (for U model):

[FM] MONO 2.8 μV (20.2 dBf)

50 dB Quieting Sensitivity (for N, K model):

[FM] MONO 2.0 μV (17.3 dBf)

S/N (IHF-A) (for U model):

[FM] MONO 70 dB (IHF-A weighted, DIRECT mode)

STEREO 67 dB (IHF-A weighted, DIRECT mode)

S/N (IHF-A) (for N, K model):

[FM] MONO 72 dB (DIRECT mode)

STEREO 67 dB (DIRECT mode)

Total harmonic Distortion (at 1 kHz) (for U model):

[FM] MONO 0.7 %

STEREO 1.0 %

Total harmonic Distortion (at 1 kHz) (for N, K model):

[FM] MONO 0.3 %

STEREO 0.7 %

General

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

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

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

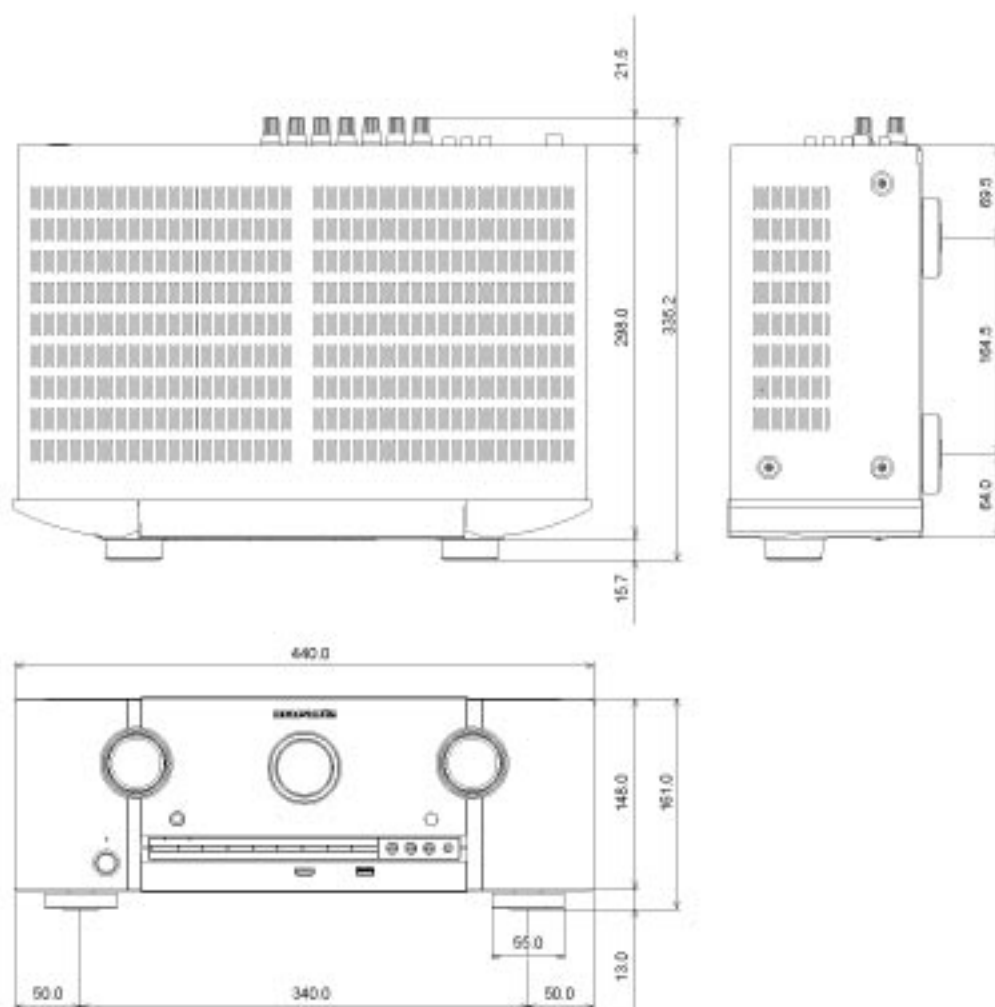
Power consumption:

650 W

0.2 W (Standby)

0.5 W (CEC standby)

DIMENSION



CAUTIONS IN SERVICING

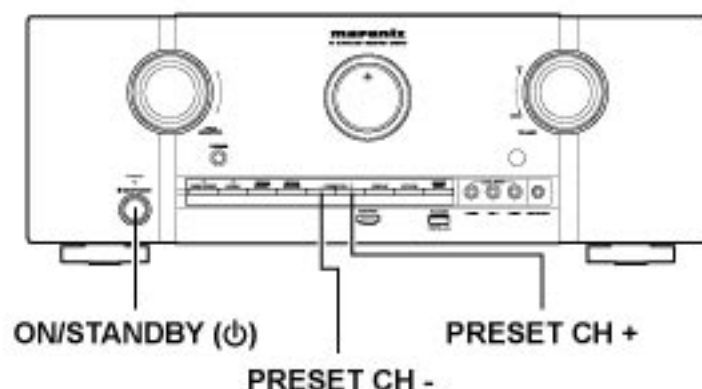
Initializing AV Surround Receiver

AV Surround Receiver initialization should be performed when the μ com, peripheral parts of μ com, and Digital PCB. were replaced.

1. Turn off the power pressing "ON/STANDBY (ϕ)" button.
2. Press "ON/STANDBY (ϕ)" 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).

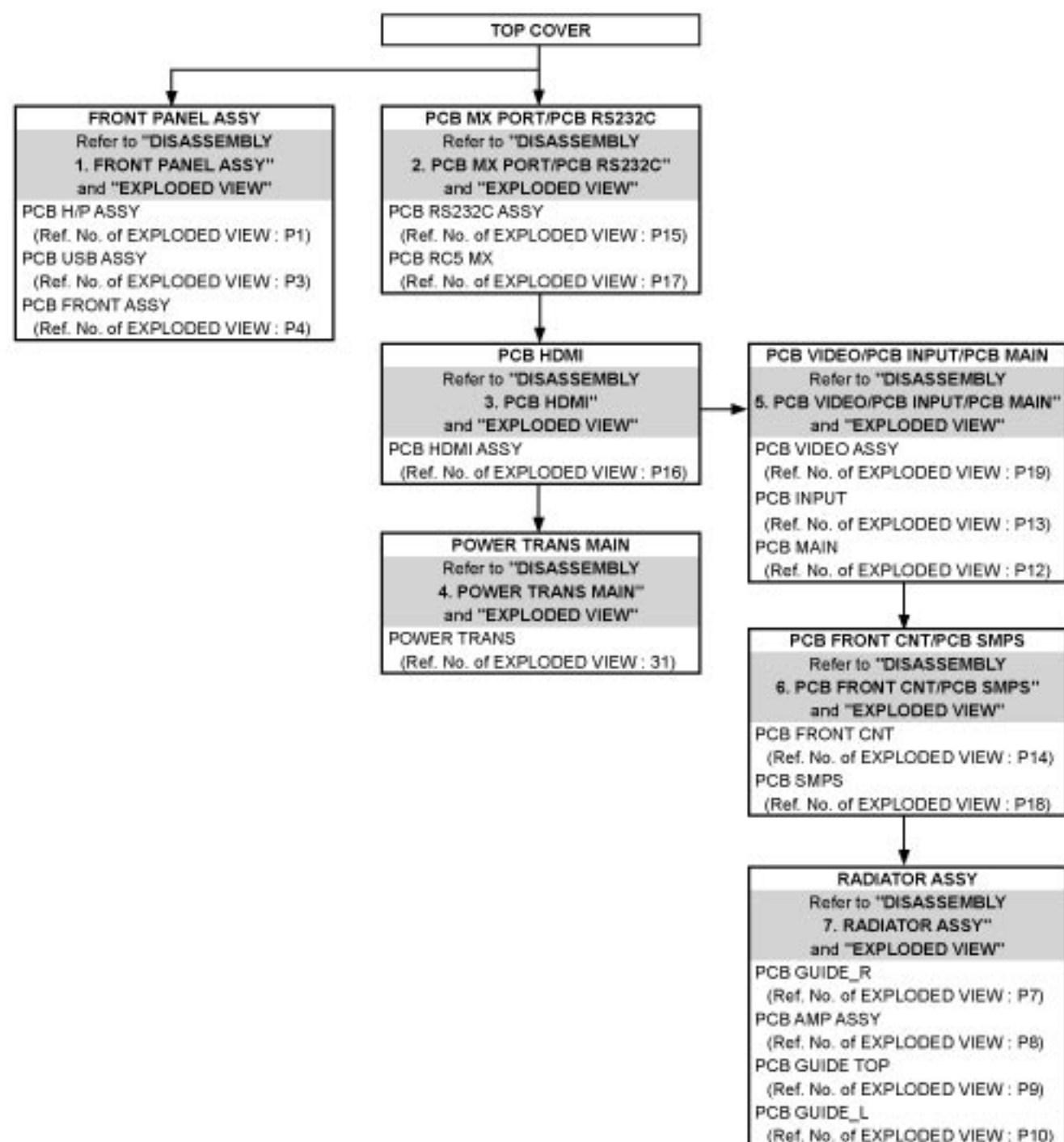
Please order it from Marantz Official Service Distributor in your region if necessary.

8U-110084S : EXTENSION UNIT KIT : 1 Set

(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.

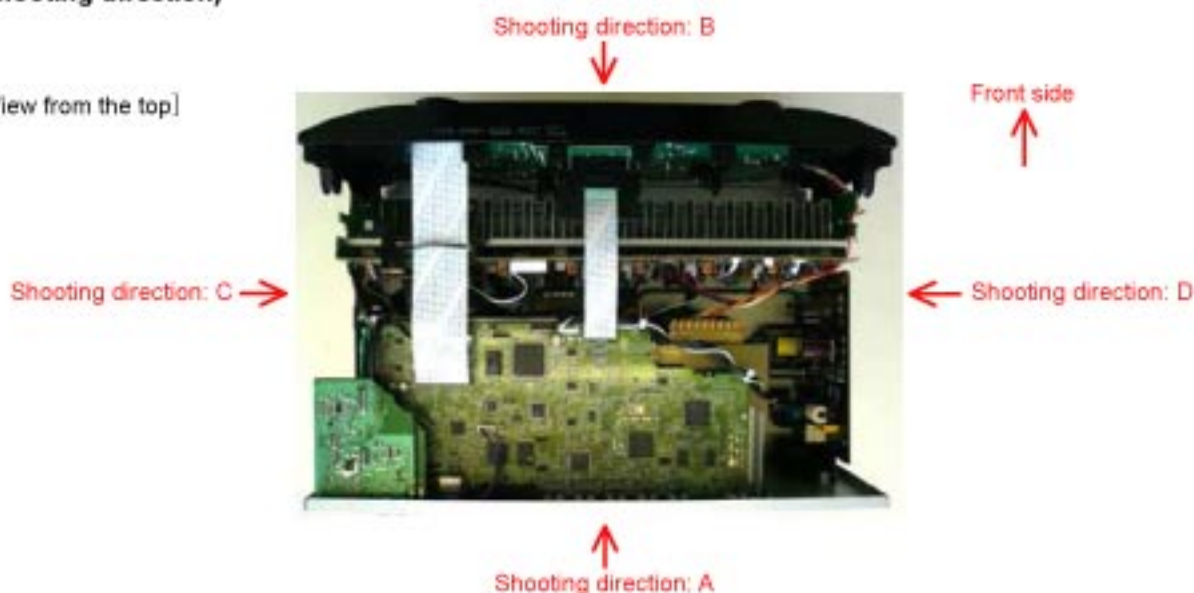


About the photos used for "descriptions of the DISASSEMBLY" section

- 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 viewpoint of each photograph (Shooting direction)

[View from the top]



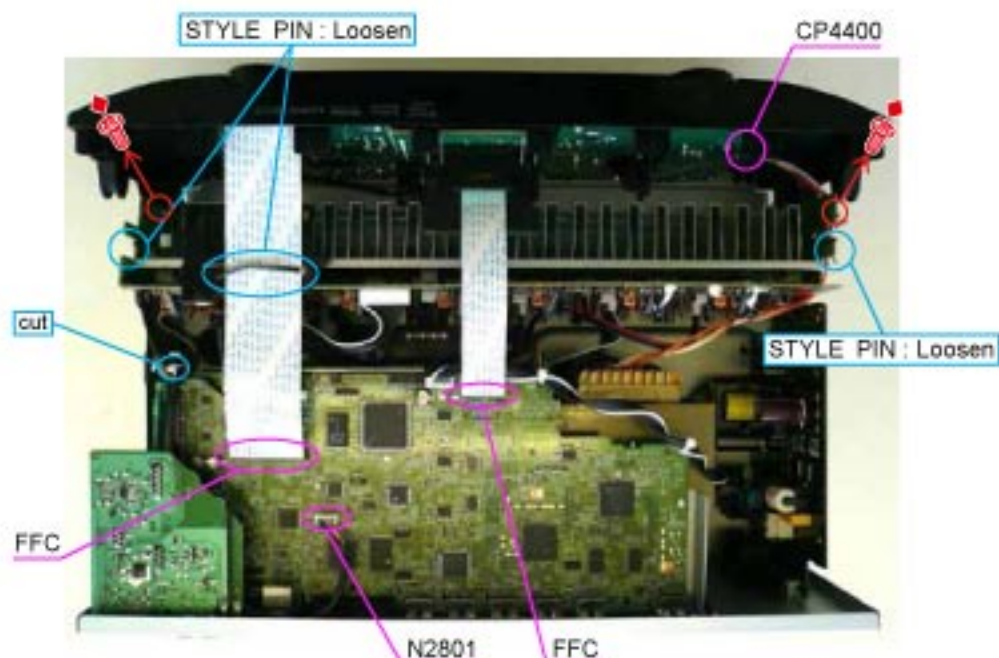
1. FRONT PANEL ASSY

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 PCB included in FRONT PANEL ASSY.

2. PCB MX PORT/PCB RS232C

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

(1) Remove the screws.



(2) Disconnect the connector board.



Board to board

PCB RC5_MX

PCB RS232



Please refer to "EXPLODED VIEW" for the disassembly method of PCB RC5_MX and PCB RS232C.

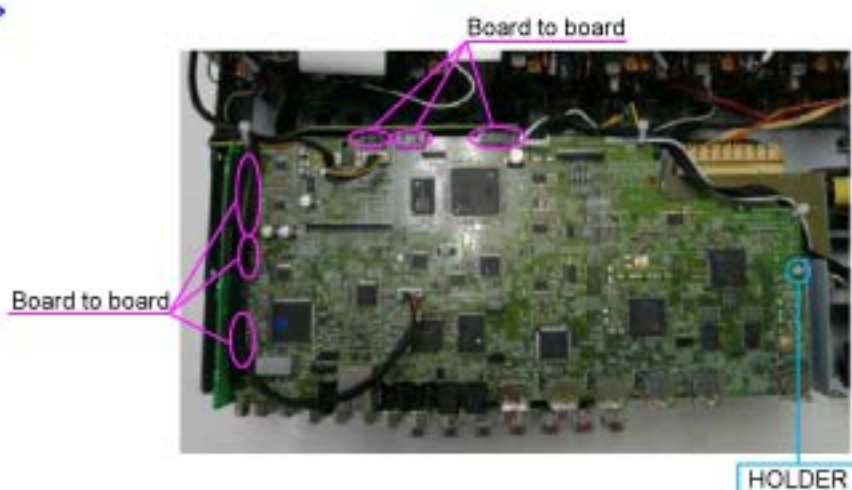
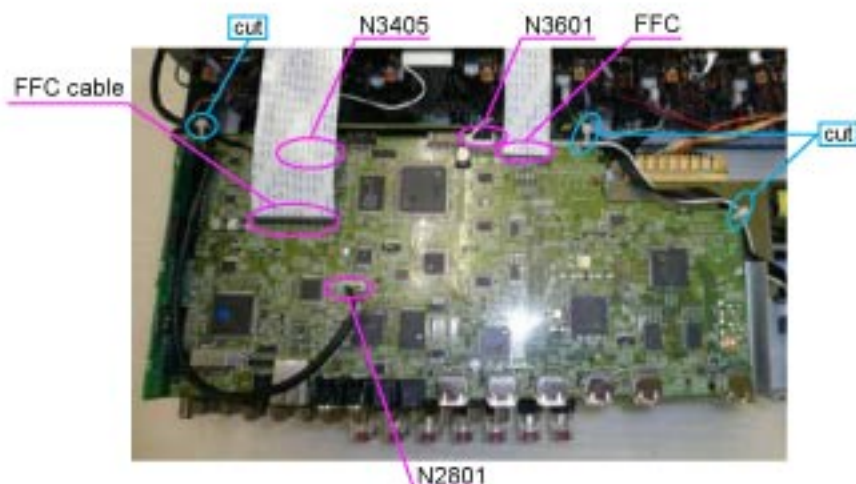
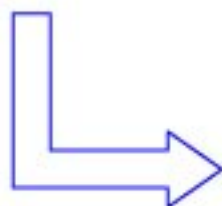
3. PCB HDMI

Proceeding : **TOP COVER** → **BACK CHASSIS** → **PCB HDMI**

- (1) Remove the screws.



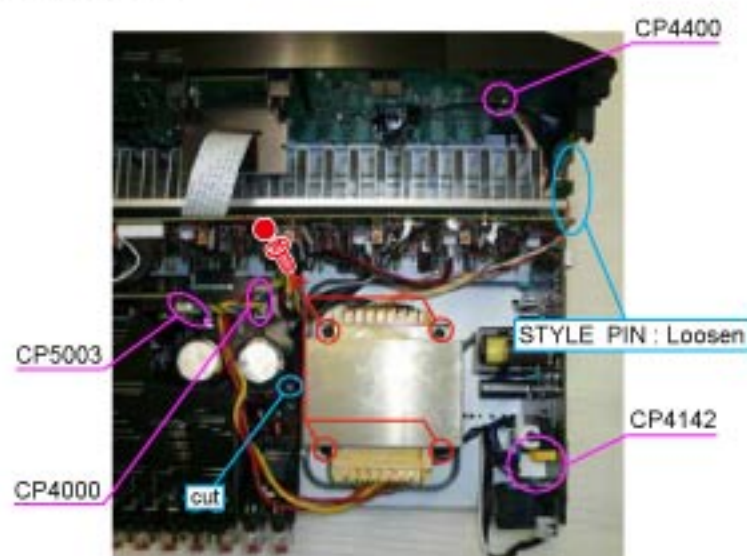
- (2) Cut the wire clamp band, then disconnect the connector wires and FFC, then disconnect the connector board and HOLDER.



4. POWER TRANS MAIN

Proceeding : **TOP COVER** → **BACK CHASSIS** → **PCB HDMI**
→ **POWER TRANS MAIN**

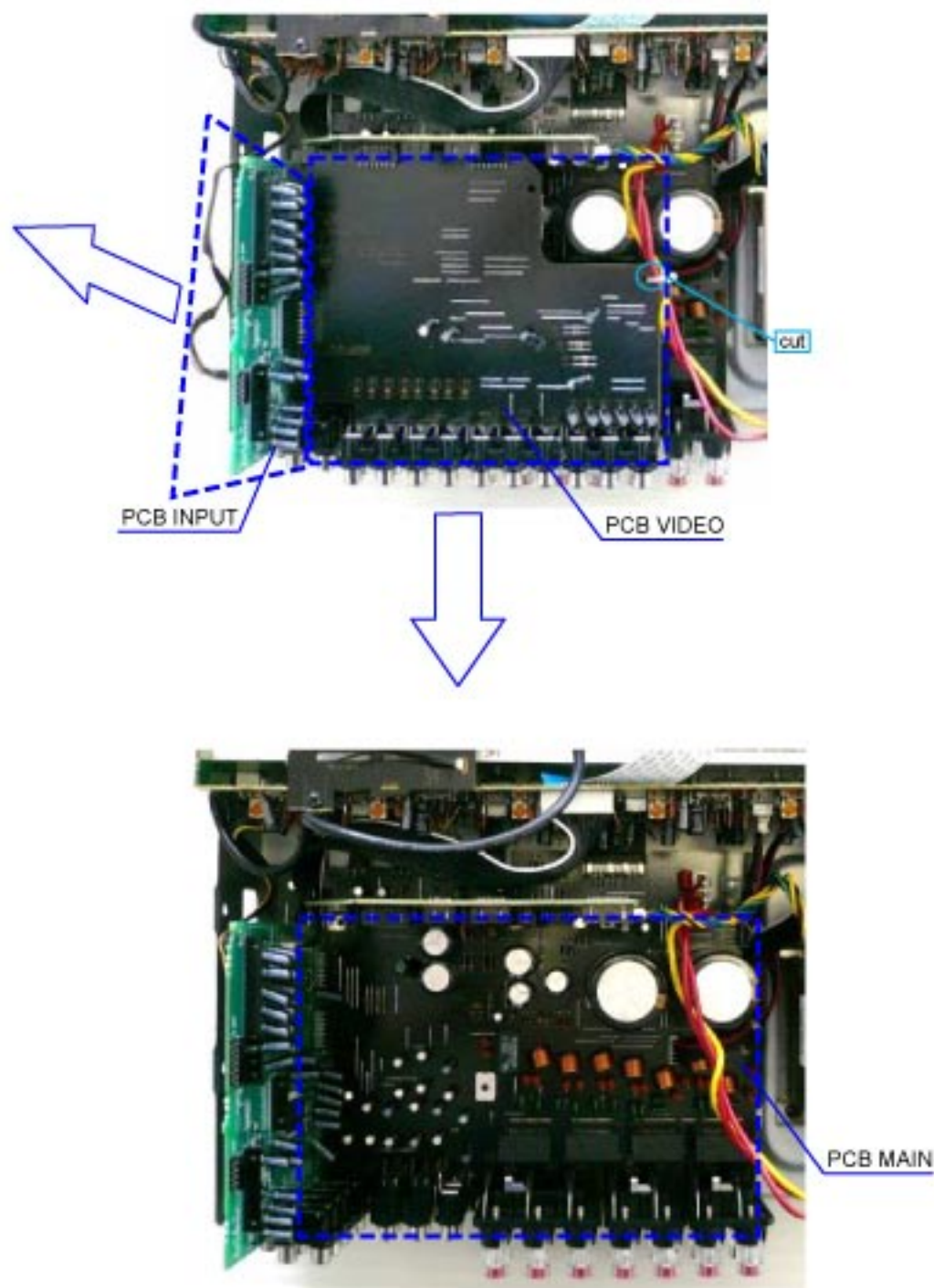
(1) Disconnect the connector wires, then remove the screws.



5. PCB VIDEO/PCB INPUT/PCB MAIN

Proceeding : **TOP COVER** → **BACK CHASSIS** → **PCB HDMI**
→ **PCB VIDEO/PCB INPUT/PCB MAIN**

(1) Disconnect the connector board.



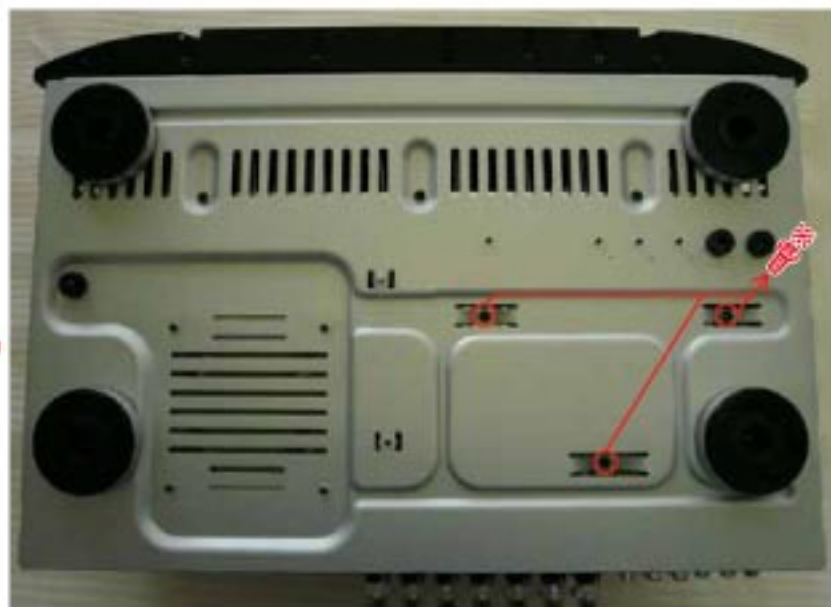
Please refer to "EXPLODED VIEW" for the disassembly method of each PCB.

6. PCB FRONT CNT/PCB SMPS

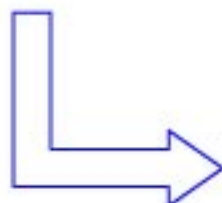
Proceeding : **TOP COVER** → **BACK CHASSIS** → **PCB HDMI**
→ **PCB VIDEO** → **PCB FRONT CNT/PCB SMPS**

(1) Remove the screws.

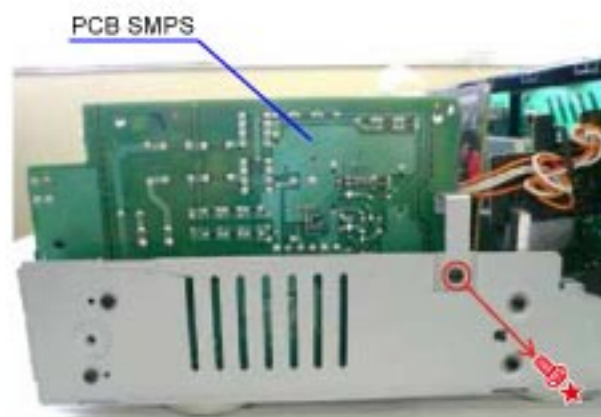
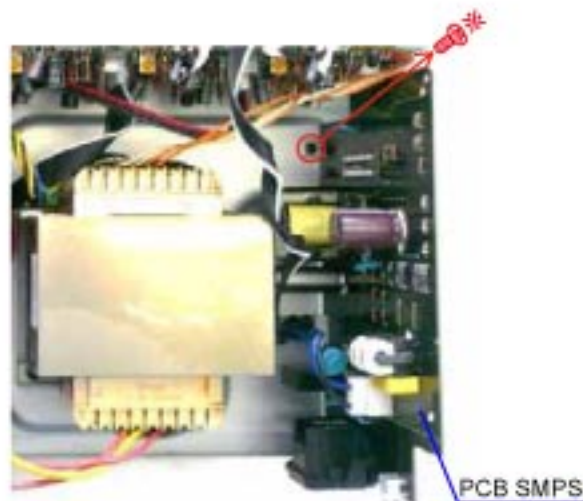
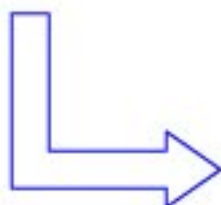
View from the bottom



(2) Disconnect the connector wire.



(3) Remove the screws.



Please refer to "EXPLODED VIEW" for the disassembly method of each PCB.

7. RADIATOR ASSY

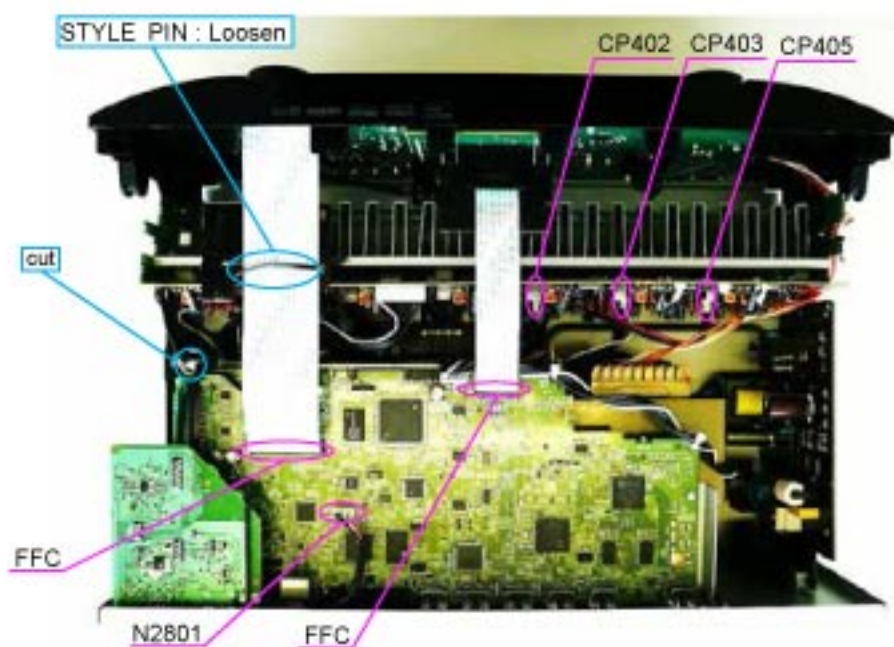
Proceeding : **TOP COVER** → **RADIATOR ASSY**

- (1) Remove the screws.

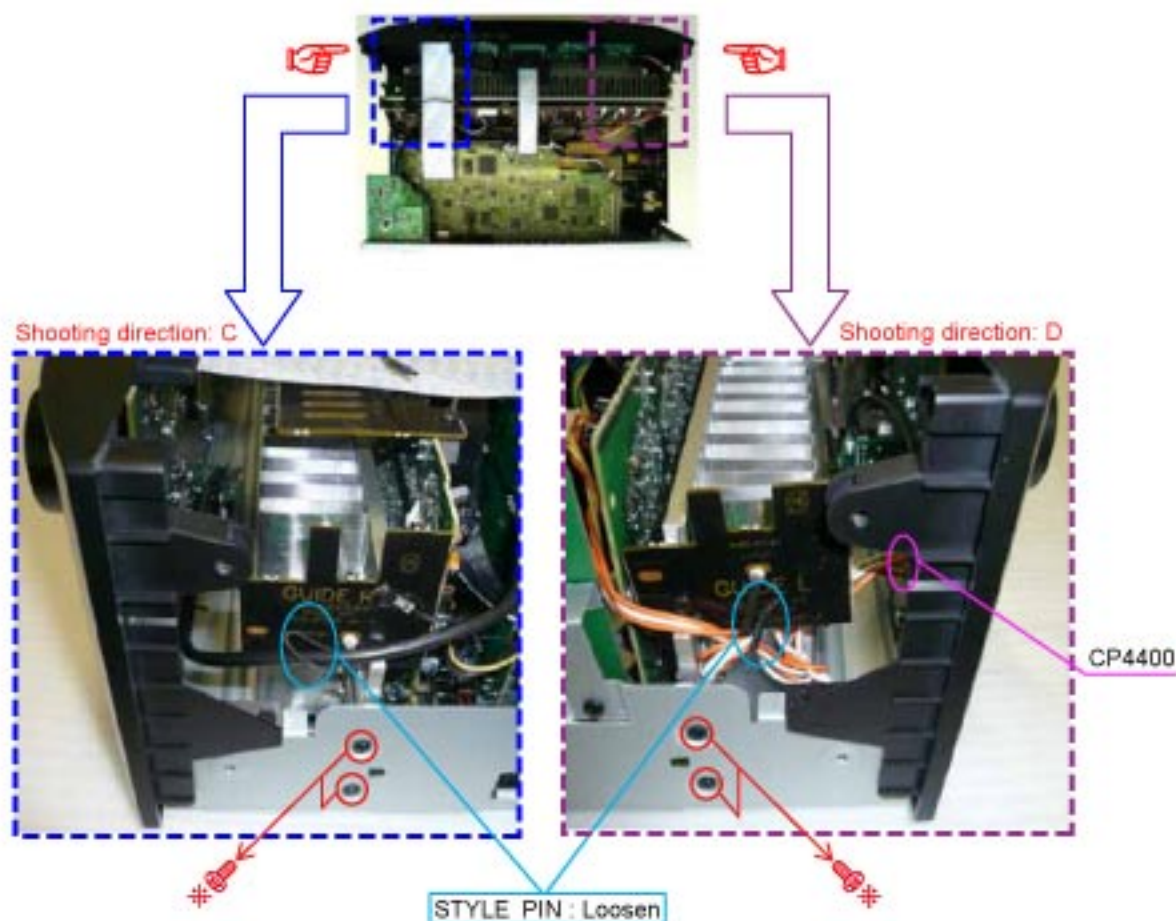
View from the bottom



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



(3) Remove the screws.



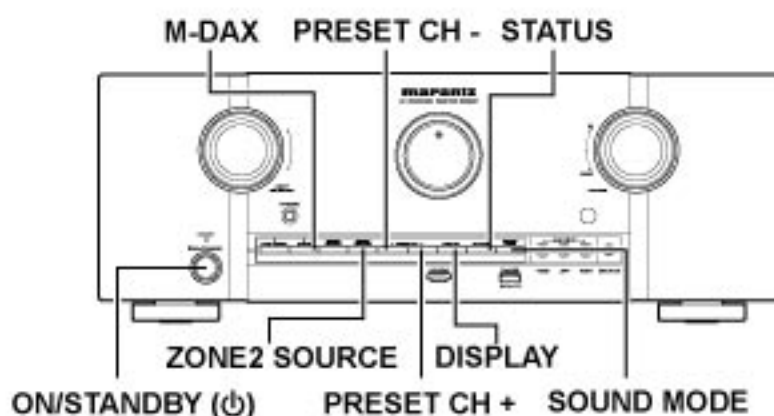
Please refer to "EXPLODED VIEW" for the disassembly method of each PCB included in RADIATOR ASSY.

SPECIAL MODE

Special mode setting button

- ※ No.1 - 7 : Press the "ON/STANDBY (⏻)" button to turn on the power while pressing both the button A and the button B at the same time.
- ※ No.8 - 10 : Turn on the power, then press and hold down the button A and button B for over 3 seconds.

No.	Mode	Button A	Button B	Contents
1	Version display (Joom/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 23 page)
2	User Initialization mode (Installer Setup settings are not initialized.)	ZONE2 SOURCE	M-DAX	Backup data initialization is carried out. (Installer Setup settings are not initialized.)
3	Factory Initialization mode (Installer Setup settings are also initialized.)	PRESET CH +	PRESET CH -	Backup data initialization is carried out. (Installer Setup settings are also initialized.)
4	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.
5	Service Related Selection mode	ZONE2 SOURCE	STATUS	Selects the "Diagnostic mode" or "Displaying the protection history mode".
6	Mode for switching tuner frequency step (U/N model only)	DISPLAY	PRESET CH -	Change tuner frequency step to FM:50kHz/200kHz
7	Installer Setup mode	SOUND MODE	STATUS	Access the Remote Maintenance mode via the internet. Installer Setup is displayed on GUI/Option Menu. ※ Refer to AVR_RemoteMaintenance_.pdf of SDI.
8	Memory Backup	PRESET CH +	PRESET CH -	Backup of DUAL BACKUP MEMORY is performed. (Refer to 35 page)
9	Memory Recovery	PRESET CH +	DISPLAY	Recovery of DUAL BACKUP MEMORY is performed. (Refer to 35 page)
10	Memory Backup Clear	SOUND MODE	PRESET CH -	Backup of DUAL BACKUP MEMORY is cleared. (Refer to 35 page)



1. μ com/DSP Version display mode

1.1. Operation specifications

μ com/DSP version display mode:

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

Starting up:

Press the "ON/STANDBY (Ⓢ)" button to turn on the power while pressing the "DISPLAY" and "STATUS" buttons. Now, press the "STATUS" button to 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 μ -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 :

SR5007 U model

FLD	S	R	5	0	0	7		U
	S	N	-	*	*	*	*	*
			*	*	*	*	*	*

SR5007 N model

FLD	S	R	5	0	0	7		N
	S	N	-	*	*	*	*	*
			*	*	*	*	*	*

SR5007 K model

FLD	S	R	5	0	0	7		K
	S	N	-	*	*	*	*	*
			*	*	*	*	*	*

⑥ GUI S-FLASH Version :

SR5007 U model

FLD	G	U	I					
	1	4	2	1	*	*	*	*

SR5007 N model

FLD	G	U	I					
	1	4	2	2	*	*	*	*

SR5007 K model

FLD	G	U	I					
	1	4	2	5	*	*	*	*

② Firmware Package Version :

FLD	P	A	C	K	A	G	E	
					0	0	0	0

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

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

③ Main μ -com / FBL(1st Boot Loader) Version :

FLD	M	A	I	N				
	*	*	*	*	*	*	*	*
	B	L	-	*	*	*	*	*

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

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

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. (※)	F I R M E R R O R	• Please check the destination-resistors (R773/R776, HDMI B'D). • Please write the firmware of correct destination.
② DIR NG	No response from DIR	D I R E R R O R 0 1	• Please check DIR (IC21, HDMI B'D) and around circuits.
③ DSP NG	When DSP code boot is performed, the DSP FLAG0 port does not change to "H" even if DSP reset is executed. Before DSP command is issued, the DSP BUSY port does not change to "L". When DSP data read is performed, executing WRITE="L" does not result in ACK="H". When DSP data read is performed, executing REQ="L" does not result in ACK="L". When DSP data writing is performed, executing WRITE="H" does not result in ACK="H". When DSP data writing is performed, executing REQ="L" does not result in ACK="L".	D S P E R R O R 0 1 D S P E R R O R 0 2 D S P E R R O R 0 3 D S P E R R O R 0 4 D S P E R R O R 0 5 D S P E R R O R 0 6	• Please check DSP (U8, HDMI B'D) and around circuits.
④ IP SCALER NG	An error occurred in testing writing data between IP SCALER and DRR. Testing writing data between IP SCALER and DRR resulted in no response.	I P S C A L E R E R R O R 0 1 I P S C A L E R E R R O R 0 2	• Please check IP SCALER (U1601, HDMI B'D) and around circuits.
⑤ EEPROM NG	Error occurs in EEPROM checksum. (** is a block address number.)	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> <tr> <td>M A I N</td><td>▲</td></tr> <tr> <td>* * * * *</td><td></td></tr> <tr> <td>E L - * * . * *</td><td></td></tr> </table> <table> <tr> <td>R . P L D</td><td>▲</td></tr> <tr> <td>* * * * *</td><td></td></tr> <tr> <td>* * . * *</td><td></td></tr> </table> <table> <tr> <td>D S P</td><td>▲</td></tr> <tr> <td>* * * * *</td><td></td></tr> <tr> <td>* * . * *</td><td></td></tr> </table> <table> <tr> <td>G U I</td><td>▲</td></tr> <tr> <td>* * * * *</td><td></td></tr> <tr> <td>* * . * *</td><td></td></tr> </table>	M A I N	▲	* * * * *		E L - * * . * *		R . P L D	▲	* * * * *		* * . * *		D S P	▲	* * * * *		* * . * *		G U I	▲	* * * * *		* * . * *	
M A I N	▲																								
* * * * *																									
E L - * * . * *																									
R . P L D	▲																								
* * * * *																									
* * . * *																									
D S P	▲																								
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* * . * *																									
G U I	▲																								
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* * . * *																									

1.4. Version display on the Setup Menu

Use the following procedure to display the firmware version.

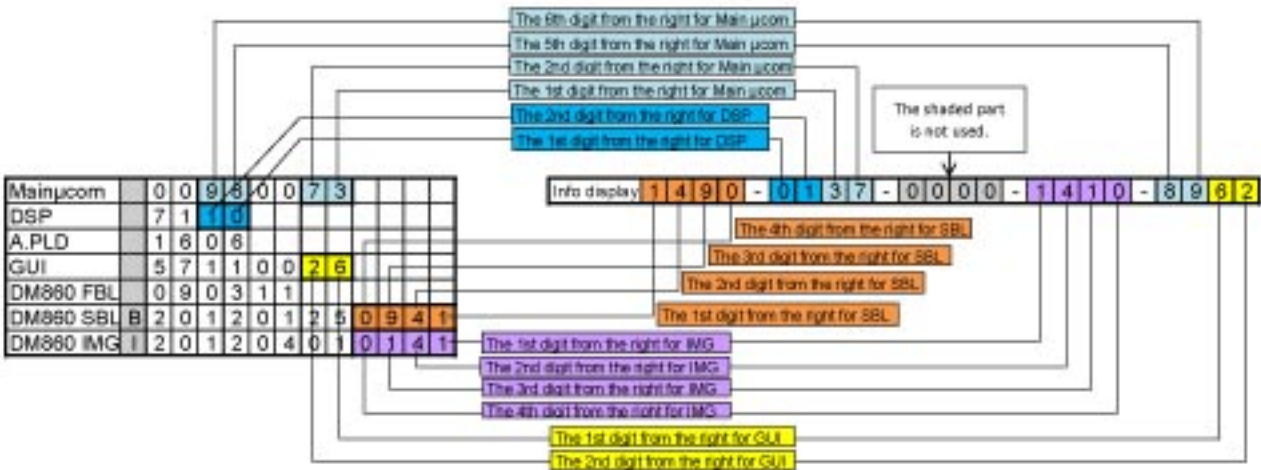
- Press the "SETUP" button on the remote control.
- Select "General-Information-Firmware".

A version with 20 digits is displayed as shown in the following image.



GUI Image

The displayed 20 digits are derived from each device version as shown below.



※ This firmware version No. (xxxx-xxxx-xxxx-xxxx) is included in the service contact document. These 20 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 " * ".

①

FLD	P	/	U		L	O	C	K
	*	O	N					

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

②

FLD	F	P			L	O	C	K
		O	N					

Operations using the main unit panel buttons are rejected.

③

FLD	F	P			L	O	C	K
		O	F	F				

Panel lock mode is cancelled.

④

FLD	R	C			L	O	C	K
		O	N					

Operations using the remote control are rejected.

⑤

FLD	R	C			L	O	C	K
	*	O	F	F				

RC lock mode is cancelled.

3. Service Related Selection mode

3.1. Behavior specifications

In this mode, you can switch between the Diagnostic mode (SERVICE CHECK), the 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.

Personal notes:

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.

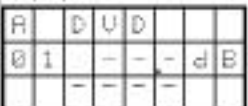
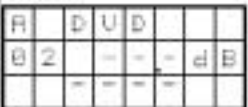
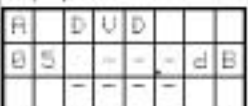
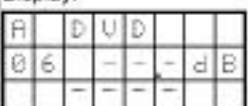
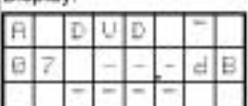
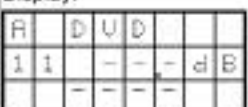
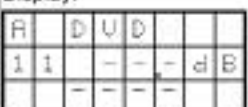
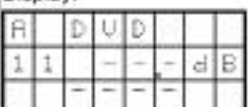
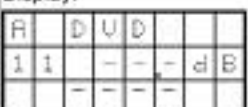
Use the remote control (RC014SR) that is supplied with the SRxx06 model. Press buttons on the remote control in the order indicated in the "Details of how to operate remote control" column in the following table to establish the confirmation path. You will find using another remote control unit with the macro functions very useful. To use the macro functions, program a macro function to output a remote control code in accordance with the steps in the table below.

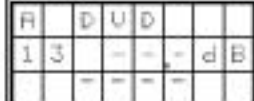
fig.XX : Refer to the block diagram of the fig.XXth.

	Confirmation item	Setting and display	Details of how to operate remote controller *a)	Output sequence of remote control codes ※ It is useful to form a macro program. *b)	Contents of confirmation	Remarks
1	Analog Video (signal) Path fig.1	Video Convert (IP Scaler) : OFF All ZONE : ON Display: U D U D - 0 1 - - - d B	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY] 4.Press [AMP] 5.Press [1/AUTO] 6.Press [Z2] 7.Press [POWER ON] 8.Press [AMP] 9.Press [DVD] twice	①ZONE2 POWER OFF ②KEY1/AUTO (Main Zone) (Initialization & Video Convert All OFF) ③ZONE2 POWER ON ④DVD (Main Zone)	-Input : CVBS / Output : CVBS -Input : Component / Output : Component -Input : USB (Picture) / Output : CVBS (※ As the input source, you can switch from DVD to other ones.)	
2	Analog or HDMI to HDMI (signal) Path fig.2	Video Convert (IP Scaler) : ON IP Scaler : Analog&HDMI Resolution : Auto Display: U D U D - 0 2 - - - d B	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY] 4.Press [AMP] 5.Press [2/STEREO] 6.Press [DVD] twice	①ZONE2 POWER OFF ②KEY2/STEREO (Main Zone) (Initialization & Video Convert All OFF & IP Scaler "Analog & HDMI") ③DVD (Main Zone)	-Input : CVBS / Output : HDMI -Input : Component / Output : HDMI -Input : HDMI / Output : HDMI -Input : USB (Picture) / Output : HDMI (※ As the input source, you can switch from DVD to other ones.)	Confirm the input pass one by one. Because it becomes only the input of the highest input becomes Convert/IP Scaler (signal) Path if it inputs it at the same time.
3	GUI FUNCTION fig.3	Video Convert (IP Scaler) : ON IP Scaler : Analog&HDMI Resolution : Auto Menu : ON All ZONE : ON Display: U D U D - 0 2 - - - d B	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY] 4.Press [AMP] 5.Press [2/STEREO] 6.Press [Z2] 7.Press [POWER ON] 8.Press [AMP] 9.Press [DVD] twice 10.Press [AMP MENU]	①ZONE2 POWER OFF ②KEY2/STEREO (Main Zone) (Initialization & Video Convert All OFF & IP Scaler "Analog & HDMI") ③ZONE2 POWER ON ④DVD (Main Zone) ⑤GUI MENU (Main Zone)	-GUI Display / Output : HDMI (※ As the input source, you can switch from DVD to other ones.)	
4	CEC FUNCTION (Control Monitor : HDMI Monitor1) fig.4	HDMI Control : ON Display: U D U D - 0 3 - - - d B	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY] 4.Press [AMP] 5.Press [3/M-DAX] 6.Press [DVD] twice	①ZONE2 POWER OFF ②KEY3/M-DAX (Main Zone) (Initialization & CEC Control ON & Select Control Monitor 1) ③DVD (Main Zone)	-When the power supply of a TV is put in the standby mode, make sure that the power supply of this unit is also put in the standby mode. (※ As the input source, you can switch from DVD to other ones.)	
5	HDMI Audio (signal) Path (Audio : AMP) fig.5	Audio : AMP(When checking the audio output from AMP) Display: U D U D - 0 5 - - - d B	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY] 4.Press [AMP] 5.Press [5/HT-EQ] 6.Press [DVD] twice	①ZONE2 POWER OFF ②KEY5/HT-EQ (Main Zone) (Initialization & Select Audio AMP) ③DVD (Main Zone)	-Input : HDMI (Signal of PCM, DolbyDigital or DTS) / Output : Speakers -Input : HDMI (Signal of HD Audio) / Output : Speakers (※ As the input source, you can switch from DVD to other ones.)	
6	HDMI Audio (signal) Path (Audio : TV) fig.6	Audio : TV(When checking the audio output from TV) Display: U D U D - 0 6 - - - d B	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY] 4.Press [AMP] 5.Press [6/V.SEL] 6.Press [DVD] twice	①ZONE2 POWER OFF ②KEY6/V.SEL (Main Zone) (Initialization & Select Audio TV) ③DVD (Main Zone)	-Input : HDMI (Signal of PCM, DolbyDigital or DTS) / Output : TV (※ As the input source, you can switch from DVD to other ones.)	

3.4.3. Audio system confirmation items

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

Confirmation item		Setting and display	Details of how to operate remote controller	Output sequence of remote control codes ※ It is useful to form a macro program.	Contents of confirmation	Remarks
1	Analog (signal) Path	Input Mode : Fixed ANALOG SURROUND mode : DIRECT Amp assign : NORMAL Display: 	1.Press [AMP]	① ZONE2 POWER OFF	Input : Analog / Output : Speakers (Front L/R) Input : Analog / Output : Pre OUT(Front L/R) (※ As the input source, you can switch from DVD to other ones.)	
			2.Press [Z2]			
			3.Press [STANDBY]			
2	DIGITAL (signal) Path (MAIN)	Input Mode : Fixed DIGITAL Amp assign : NORMAL Display: 	4.Press [AMP]	② KEY7/T.TONE (Main Zone) (Initialization & Amp assign NORMAL & Input Mode Fixed ANALOG & SURROUND mode DIRECT)	Input : Digital / Output : Speakers (Front L/R) Input : Digital / Output : Pre OUT(Front L/R) (※ As the input source, you can switch from DVD to other ones.)	
			5.Press [7/T.TONE]			
			6.Press [DVD] twice	③ DVD (Main Zone)		
3	HDMI (signal) Path	Input Mode : Fixed HDMI Amp assign : NORMAL Display: 	1.Press [AMP]	① ZONE2 POWER OFF	Input : HDMI / Output : Speakers (Front L/R) Input : HDMI / Output : Pre OUT(Front L/R), SW(20Hz) (※ As the input source, you can switch from DVD to other ones.)	
			2.Press [Z2]			
			3.Press [STANDBY]			
4	A/D (signal) Path (Main Zone)	Amp assign : NORMAL SURROUND mode : Multi ch STEREO Vol -20dB Speaker Config : SSSSY (Front/Center/Surround/SurroundBack : Small, SW : Yes) Display: 	4.Press [AMP]	② SURROUND (Initialization & Amp assign NORMAL & Input Mode Fixed HDMI)	Input : Analog / Output : Speakers (Front L/R) Input : Analog / Output : Pre OUT(Front L/R), SW(20Hz) (※ As the input source, you can switch from DVD to other ones.)	
			5.Press [PURE DIRECT]			
			6.Press [DVD] twice	③ DVD (Main Zone)		
5	Analog Audio (signal) Path (ZONE2)	Amp assign : ZONE2 ZONE2 Function : Source Zone2 Vol -20dB Display: 	1.Press [AMP]	① ZONE2 POWER OFF	Input : Analog / Output : Speakers (SURR BACK L/R) Input : Analog / Output : Pre OUT(ZONE2 L/R) (※ As the input source, you can switch from DVD to other ones.)	
			2.Press [Z2]			
			3.Press [STANDBY]			
6	Amp Assign (signal) Path (Amp Assign : SPKR-C)	Amp assign : BiAMP SURROUND mode : Multi ch STEREO Vol -20dB Display: 	4.Press [AMP]	② P2 (Initialization & Amp assign ZONE2 & SURROUND mode : Multi ch STEREO & ZONE2 Volume -20dB)	Input : Analog / Output : Speakers (SURR BACK L/R) (※ As the input source, you can switch from DVD to other ones.)	
			5.Press [P2]			
			6.Press [Z2]	③ ZONE2 POWER ON		
7	Amp Assign (signal) Path (Amp Assign : SPKR-C)	Amp assign : BiAMP SURROUND mode : Multi ch STEREO Vol -20dB Display: 	7.Press [POWER ON]		Input : Analog / Output : Speakers (SURR BACK L/R) (※ As the input source, you can switch from DVD to other ones.)	
			8.Press [AMP]	④ DVD (Main Zone)		
			9.Press [DVD] twice			
8	Amp Assign (signal) Path (Amp Assign : SPKR-C)	Amp assign : BiAMP SURROUND mode : Multi ch STEREO Vol -20dB Display: 	1.Press [AMP]	① ZONE2 POWER OFF	Input : Analog / Output : Speakers (SURR BACK L/R) (※ As the input source, you can switch from DVD to other ones.)	
			2.Press [Z2]			
			3.Press [STANDBY]			
9	Amp Assign (signal) Path (Amp Assign : SPKR-C)	Amp assign : BiAMP SURROUND mode : Multi ch STEREO Vol -20dB Display: 	4.Press [AMP]	② DISPLAY (Initialization & Amp assign SPKR-C & SURROUND mode : Multi ch STEREO & Volume -20dB)	Input : Analog / Output : Speakers (SURR BACK L/R) (※ As the input source, you can switch from DVD to other ones.)	
			5.Press [DISP]			
			6.Press [DVD] twice	③ DVD (Main Zone)		

	Confirmation item	Setting and display	Details of how to operate remote controller	Output sequence of remote control codes ※ It is useful to form a macro program.	Contents of confirmation	Remarks
7	Amp Assign (signal) Path (Amp Assign : Front) fig.14	Display: 	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY] 4.Press [AMP] 5.Press [SHIFT/TOP MENU]	①ZONE2 POWER OFF ②SHIFT/TOP MENU (Initialization & Amp assign Front B & SURROUND mode : Multi ch STEREO & Volume -20dB) ③DVD (Main Zone)	-Input : Analog / Output : Speakers (SURR BACK L/R) (※ As the input source, you can switch from DVD to other ones.)	
8	Amp Assign (signal) Path (Amp Assign : Front Height) fig.15	Amp assign : Front Height SURROUND mode : Multi ch STEREO Vol -20dB Surround Parameter-Speaker : F.Height Display: 	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY] 4.Press [AMP] 5.Press [+10/SLEEP]	①ZONE2 POWER OFF ②+10/SLEEP (Main Zone) (Initialization & Amp assign Front Height & SURROUND mode : Multi ch STEREO & Volume -20dB) ③DVD (Main Zone)	-Input : Analog / Output : Speakers (SURR BACK L/R) (※ As the input source, you can switch from DVD to other ones.)	

Personal notes:

Personal notes

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

Personal notes:

BLOCK DIAGRAM

fig.1

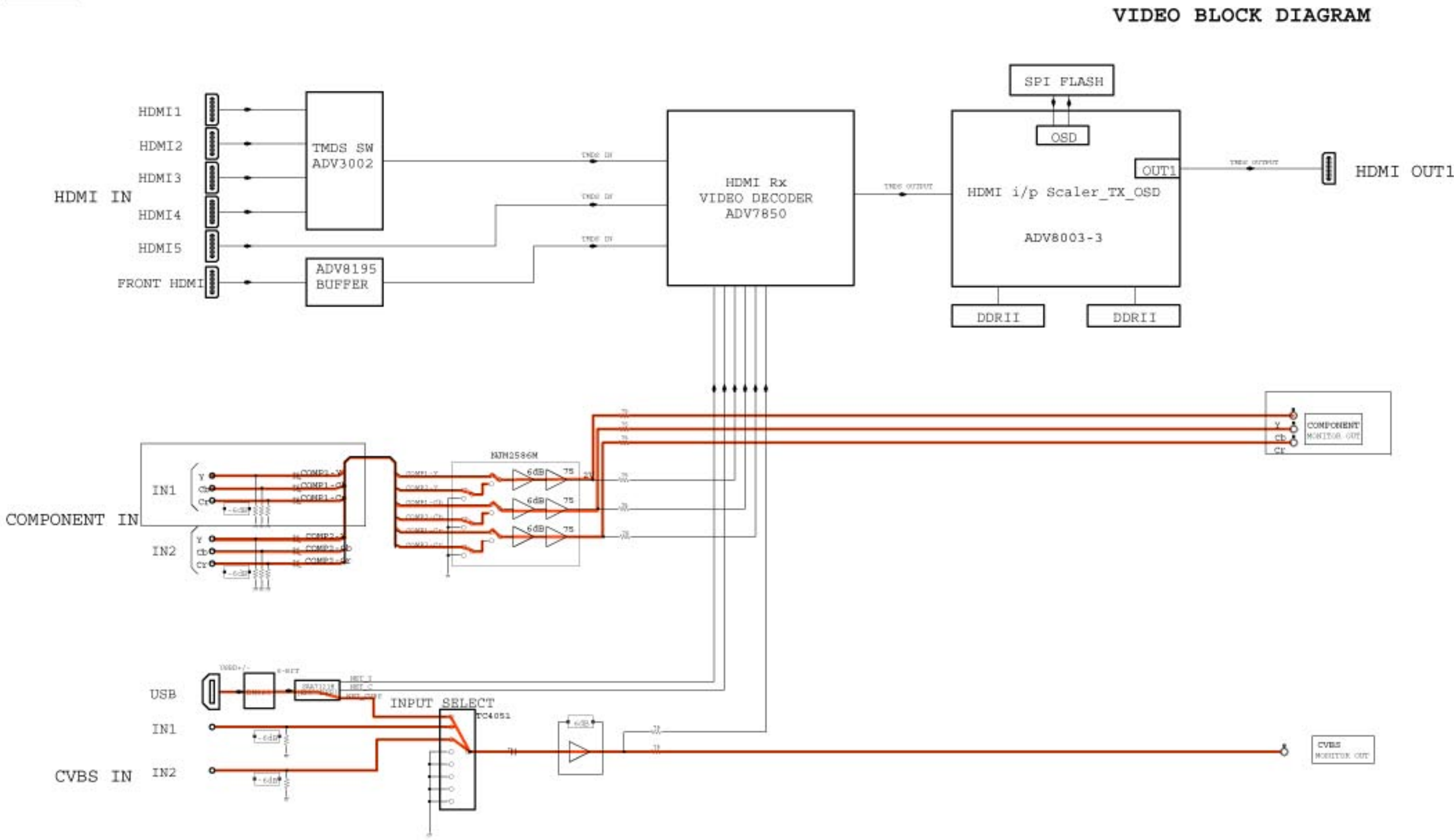


fig.2

VIDEO BLOCK DIAGRAM

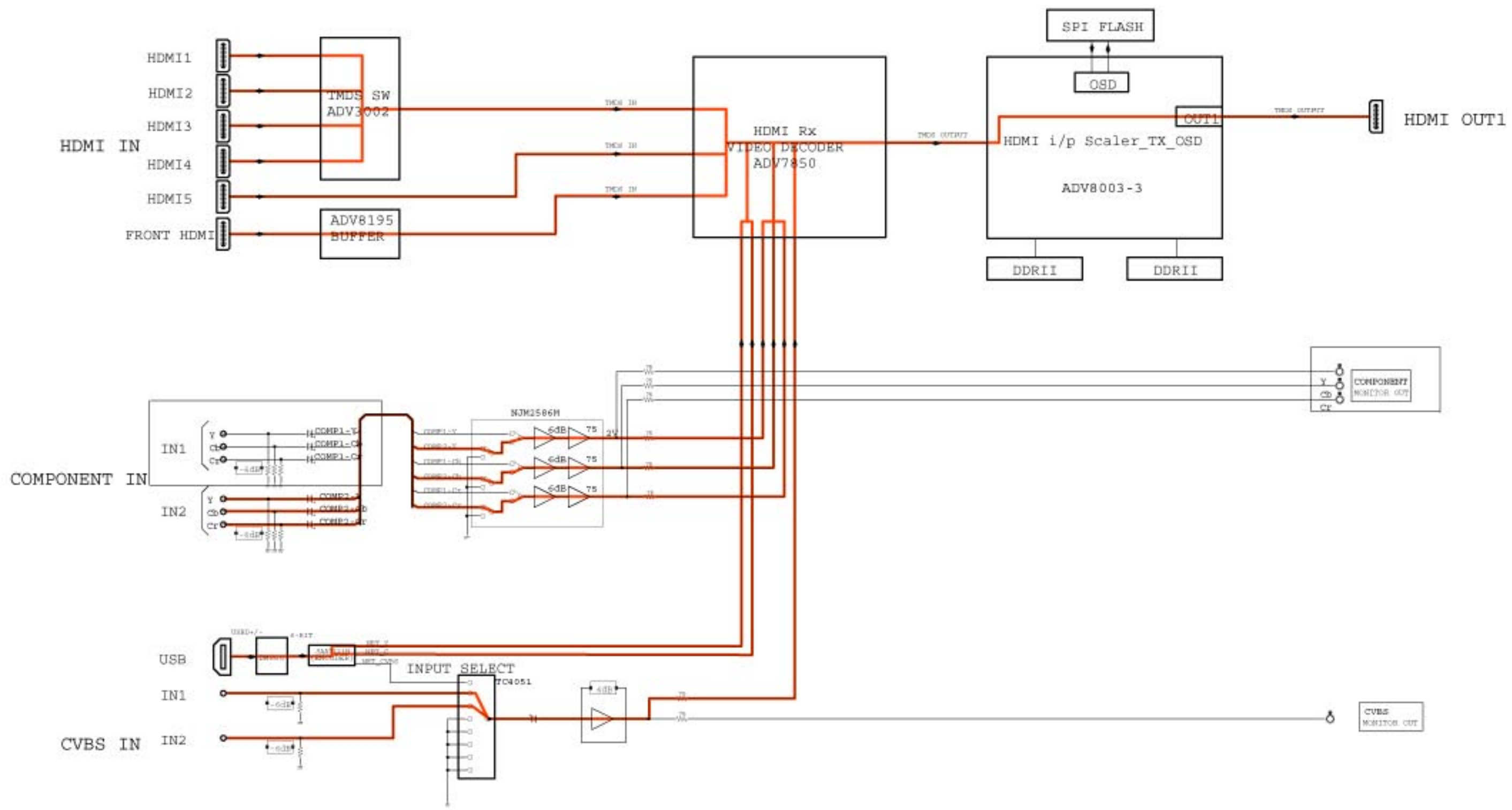


fig.3

VIDEO BLOCK DIAGRAM

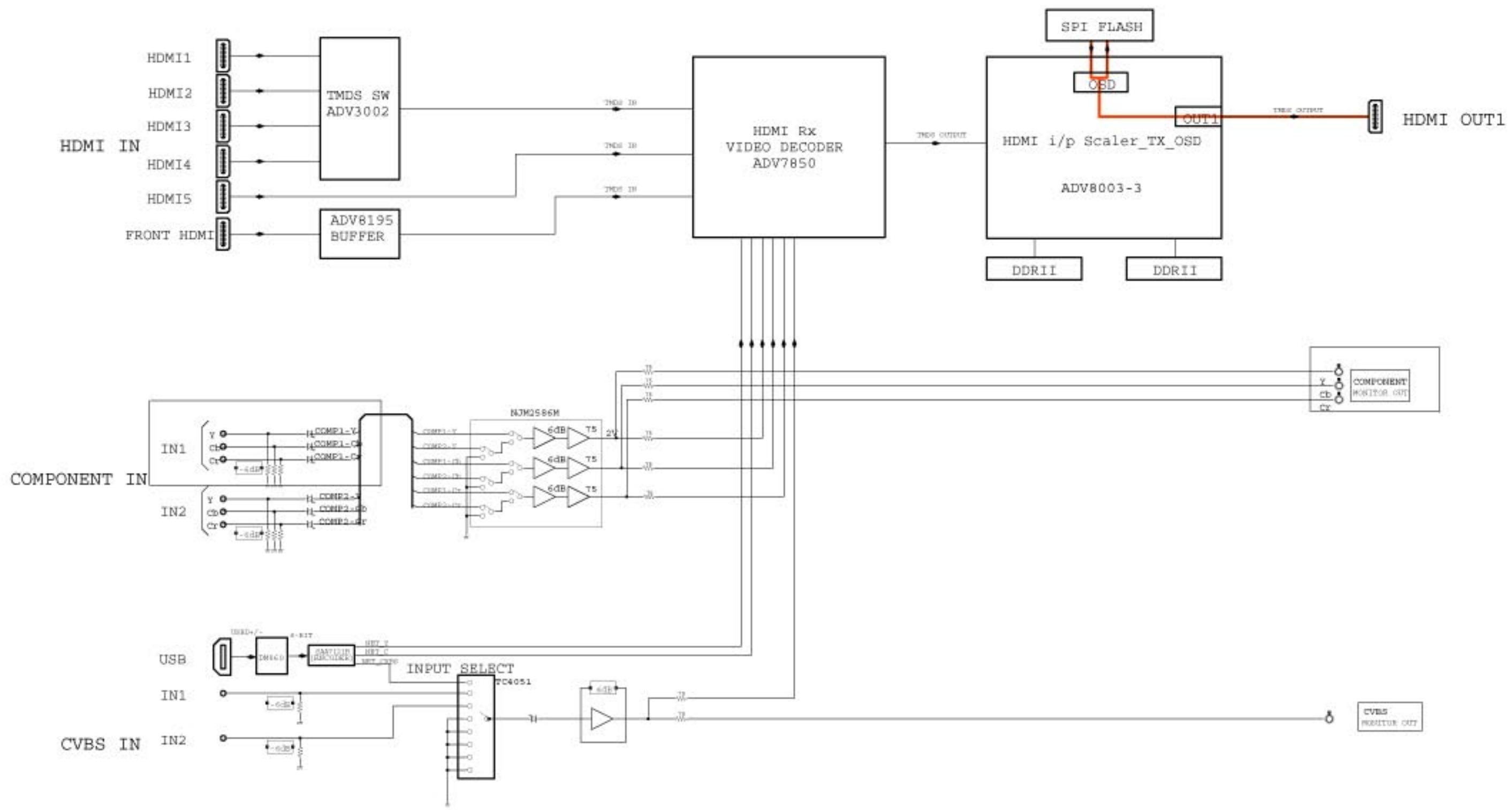


fig.4

VIDEO BLOCK DIAGRAM

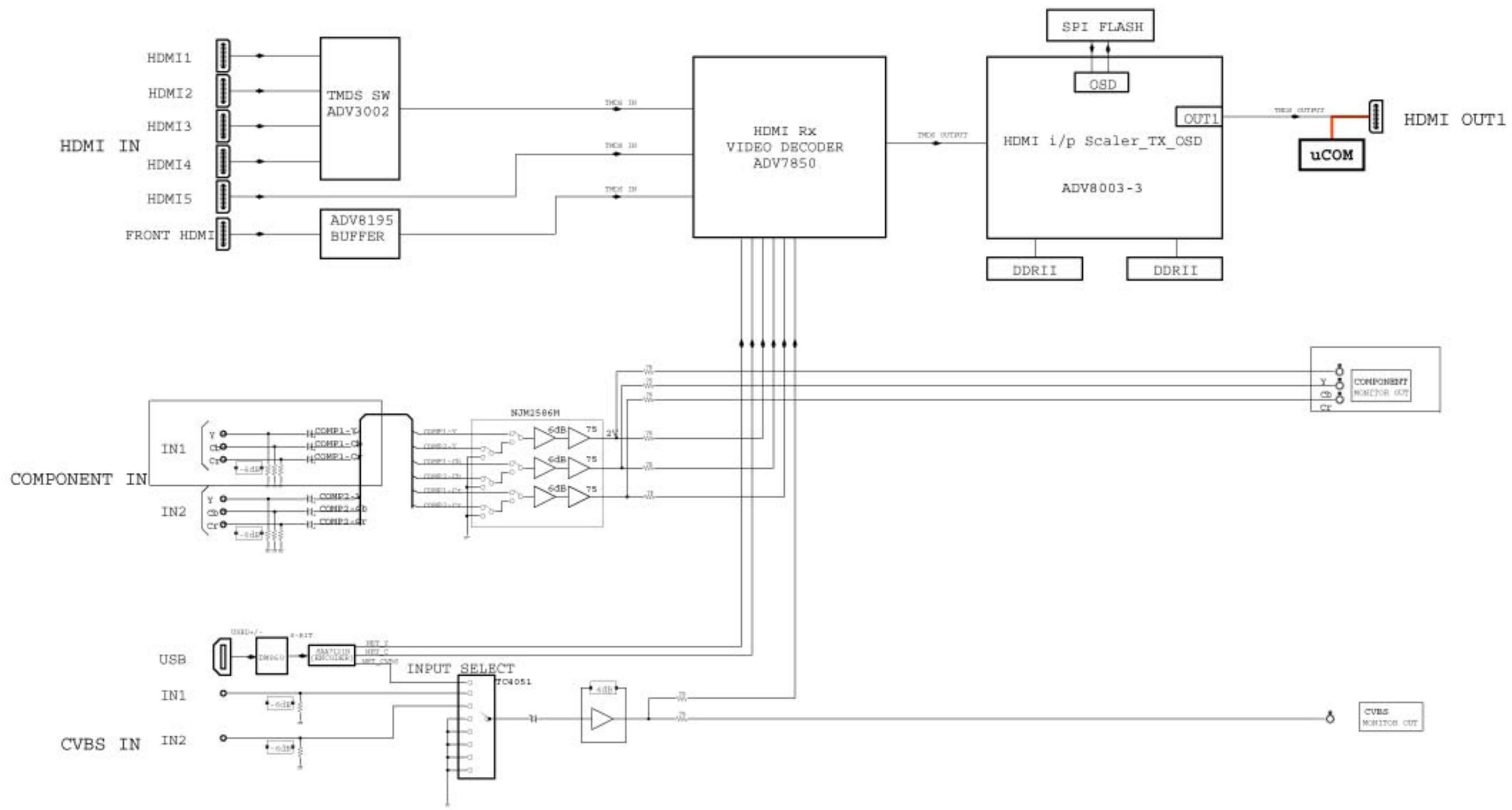


fig.5

AUDIO BLOCK DIAGRAM

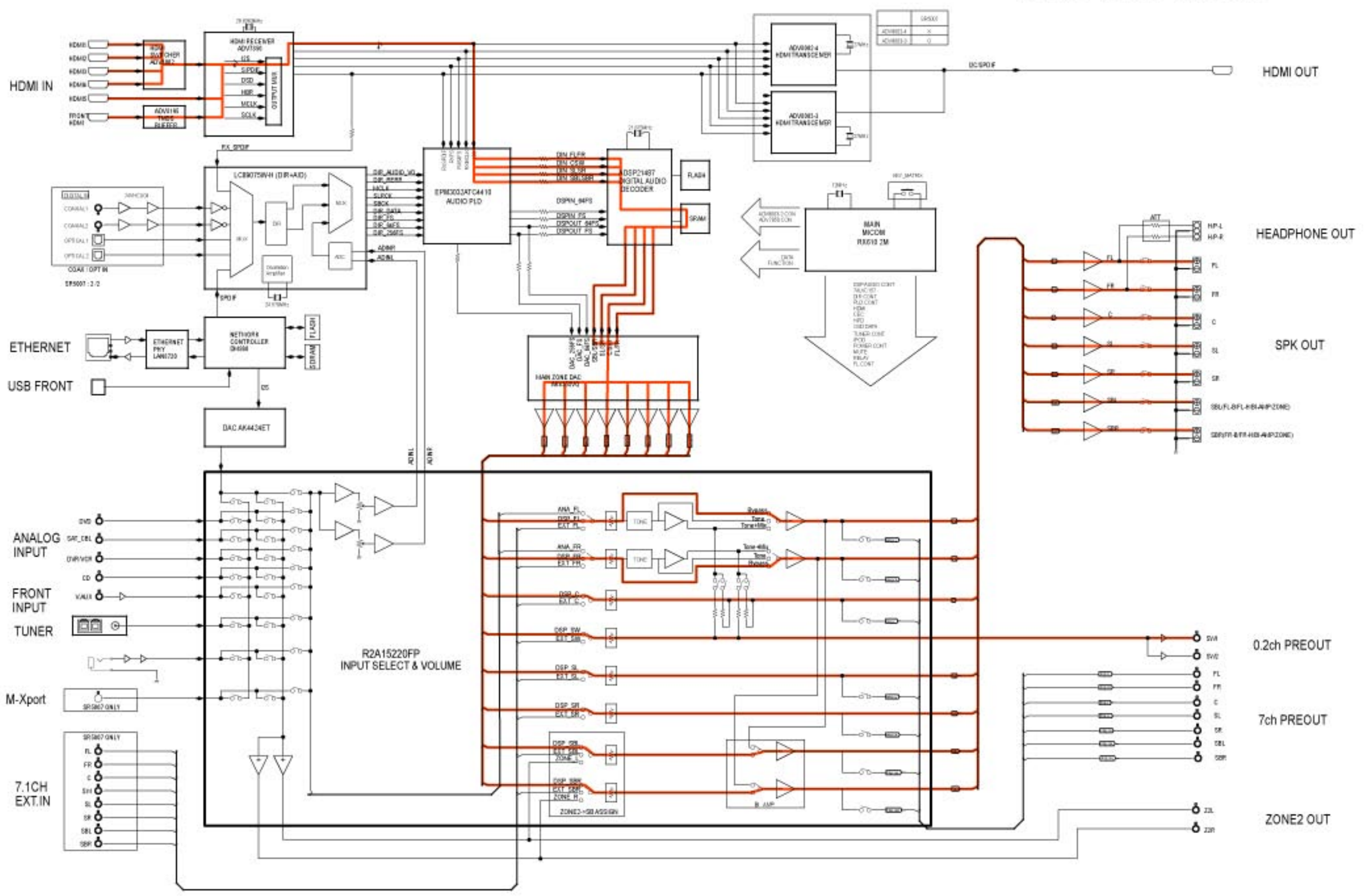


fig.6

AUDIO BLOCK DIAGRAM

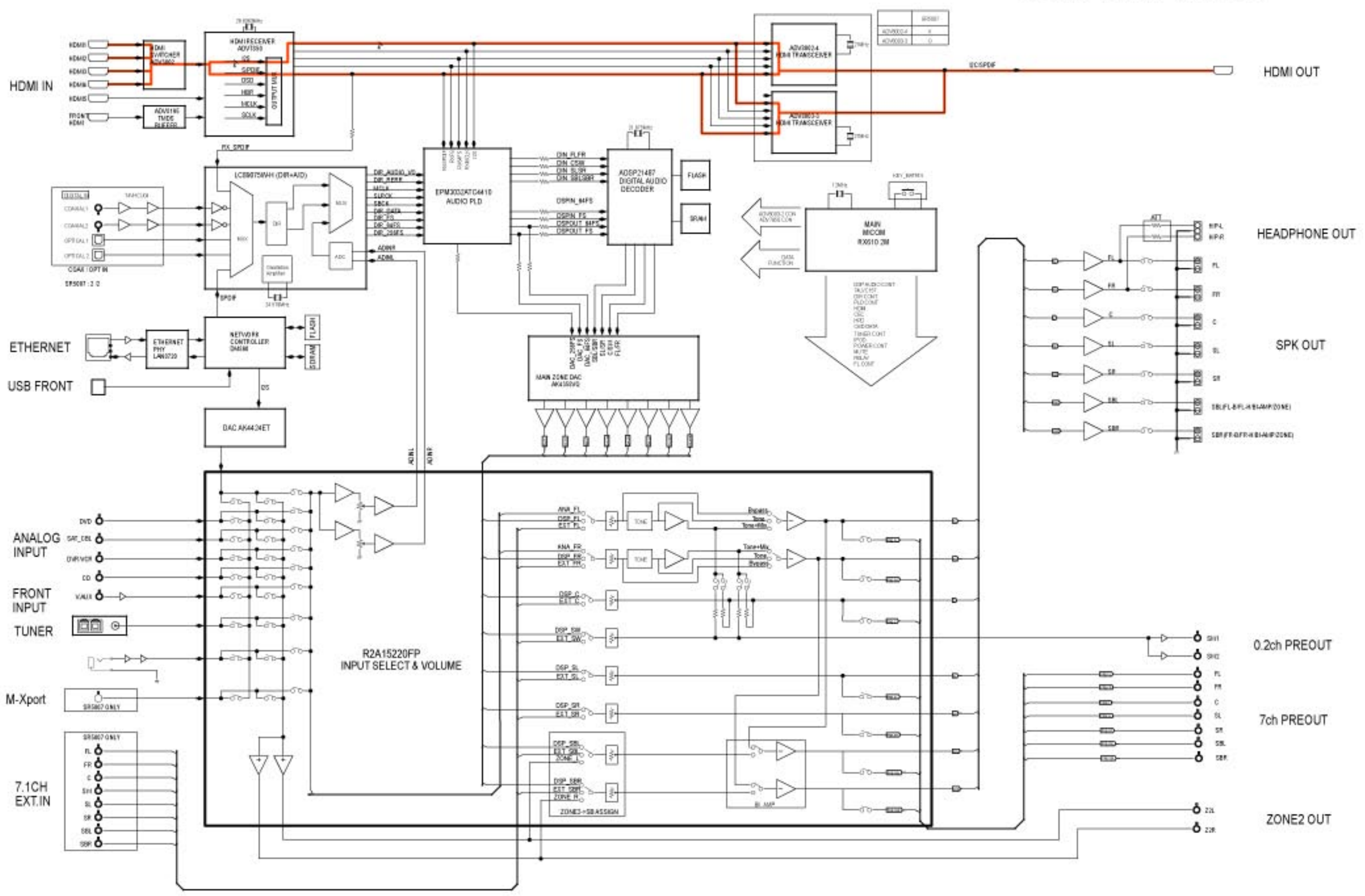


fig.7

AUDIO BLOCK DIAGRAM

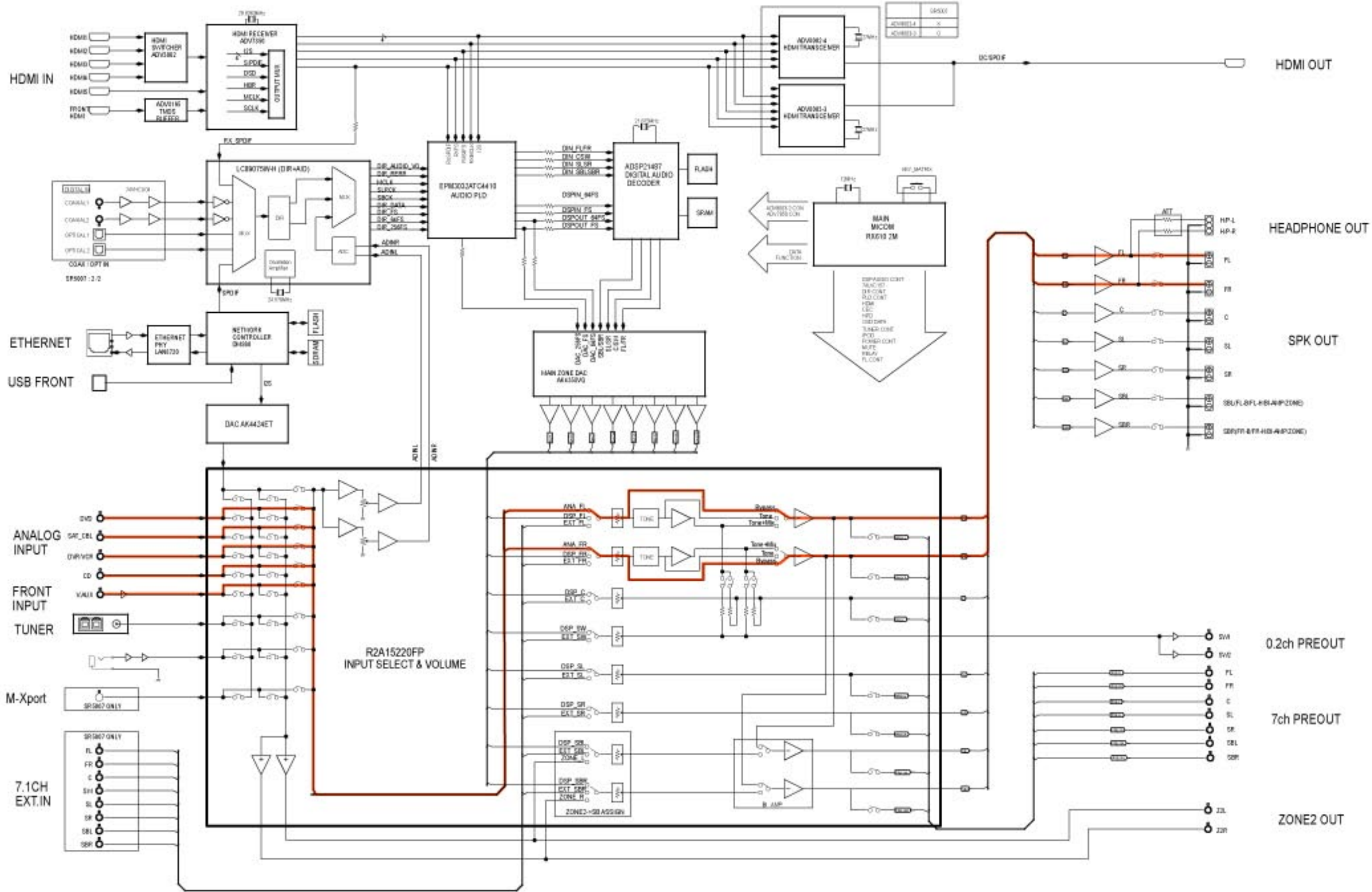


fig.8

AUDIO BLOCK DIAGRAM

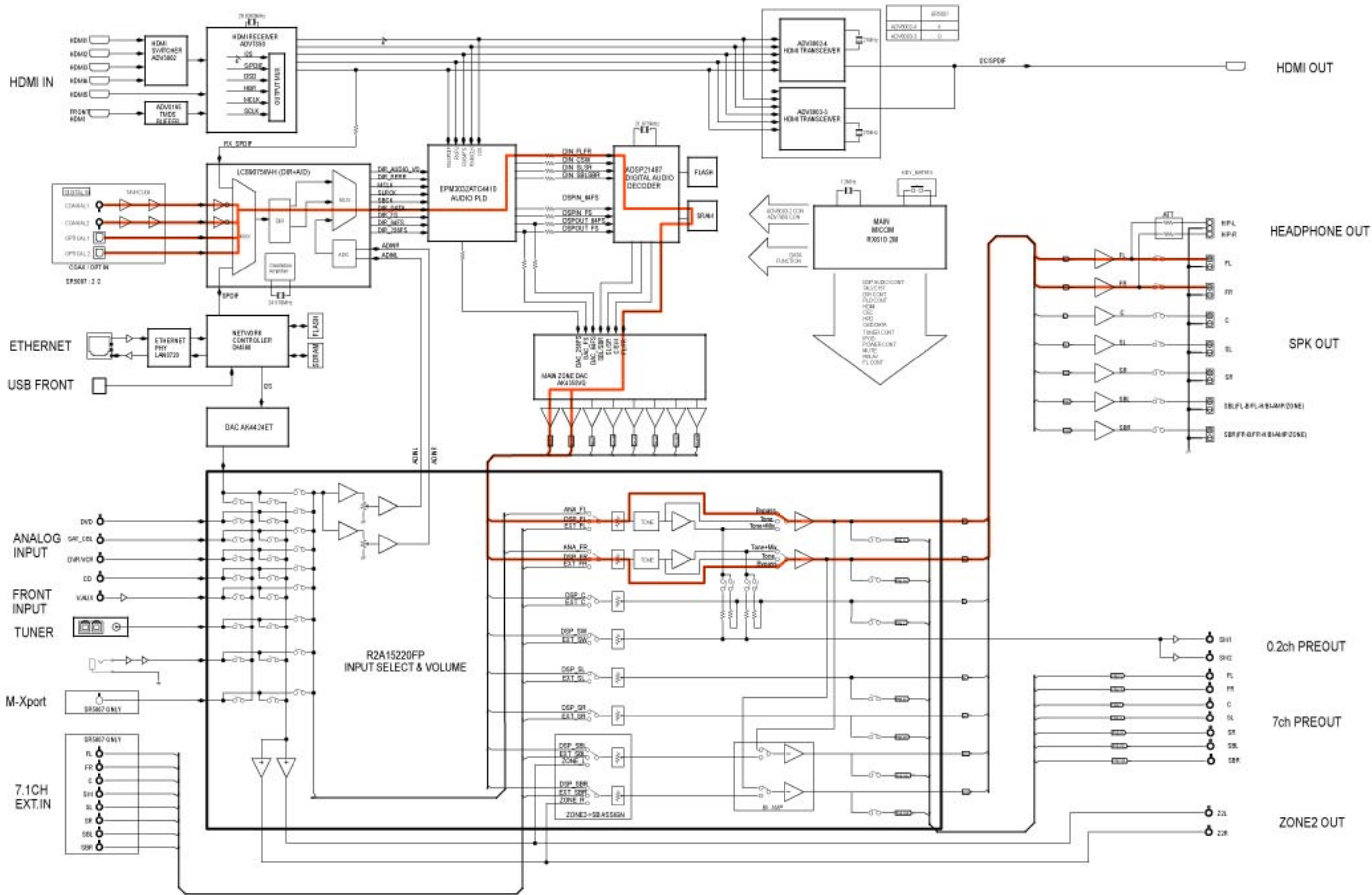


fig.9

AUDIO BLOCK DIAGRAM

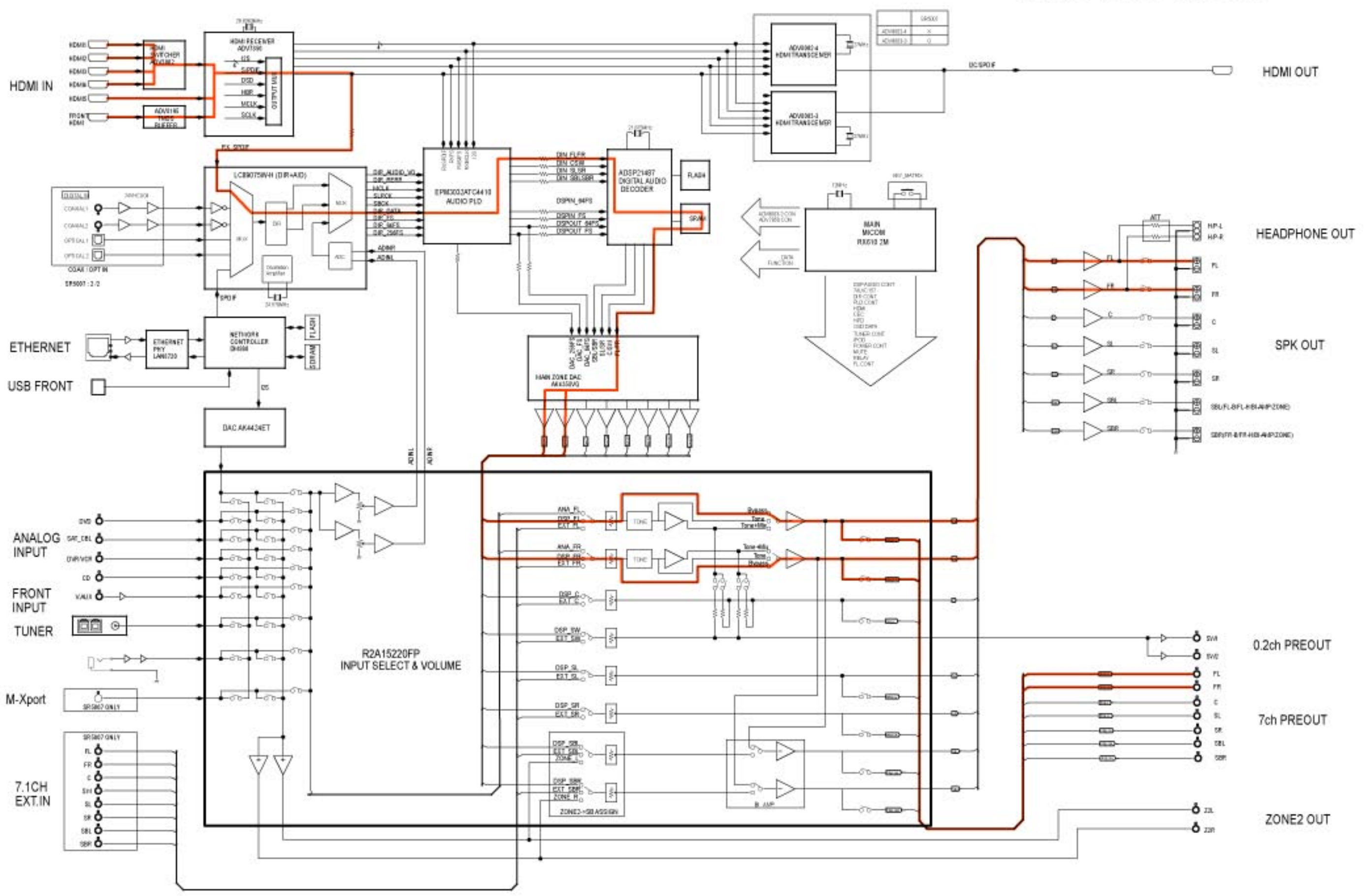


fig.10

AUDIO BLOCK DIAGRAM

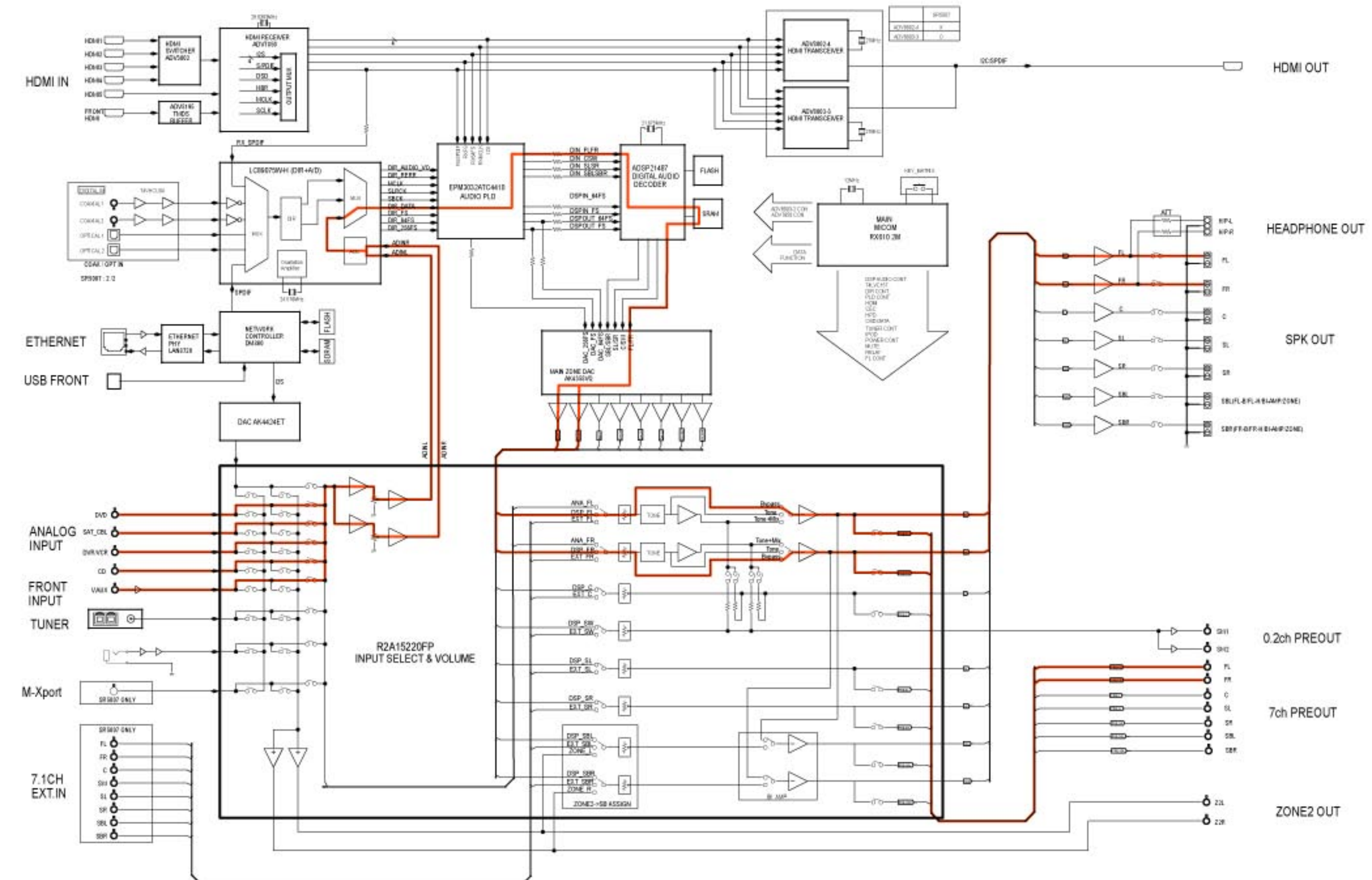


fig.11

AUDIO BLOCK DIAGRAM

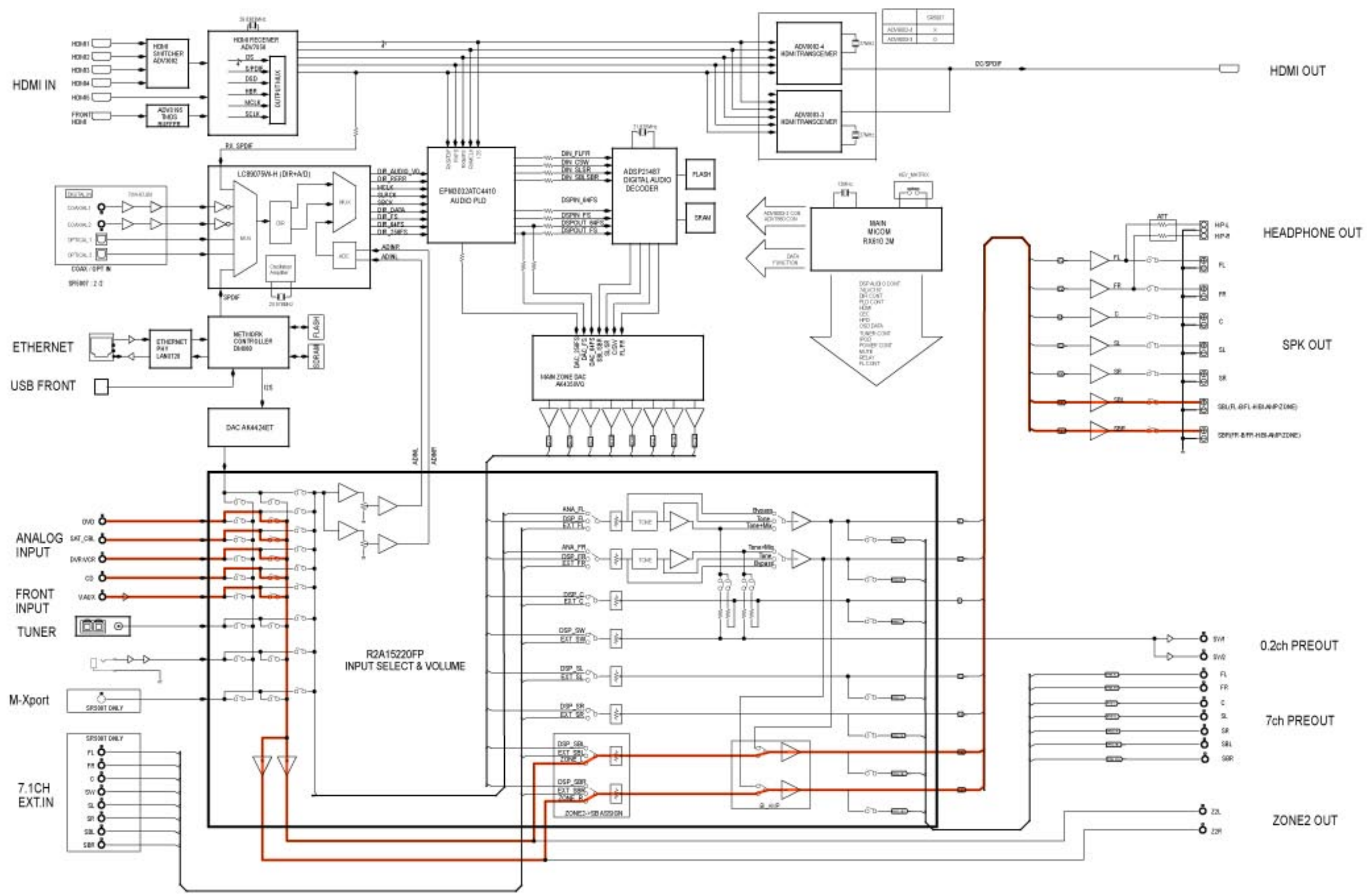


fig.12

AUDIO BLOCK DIAGRAM

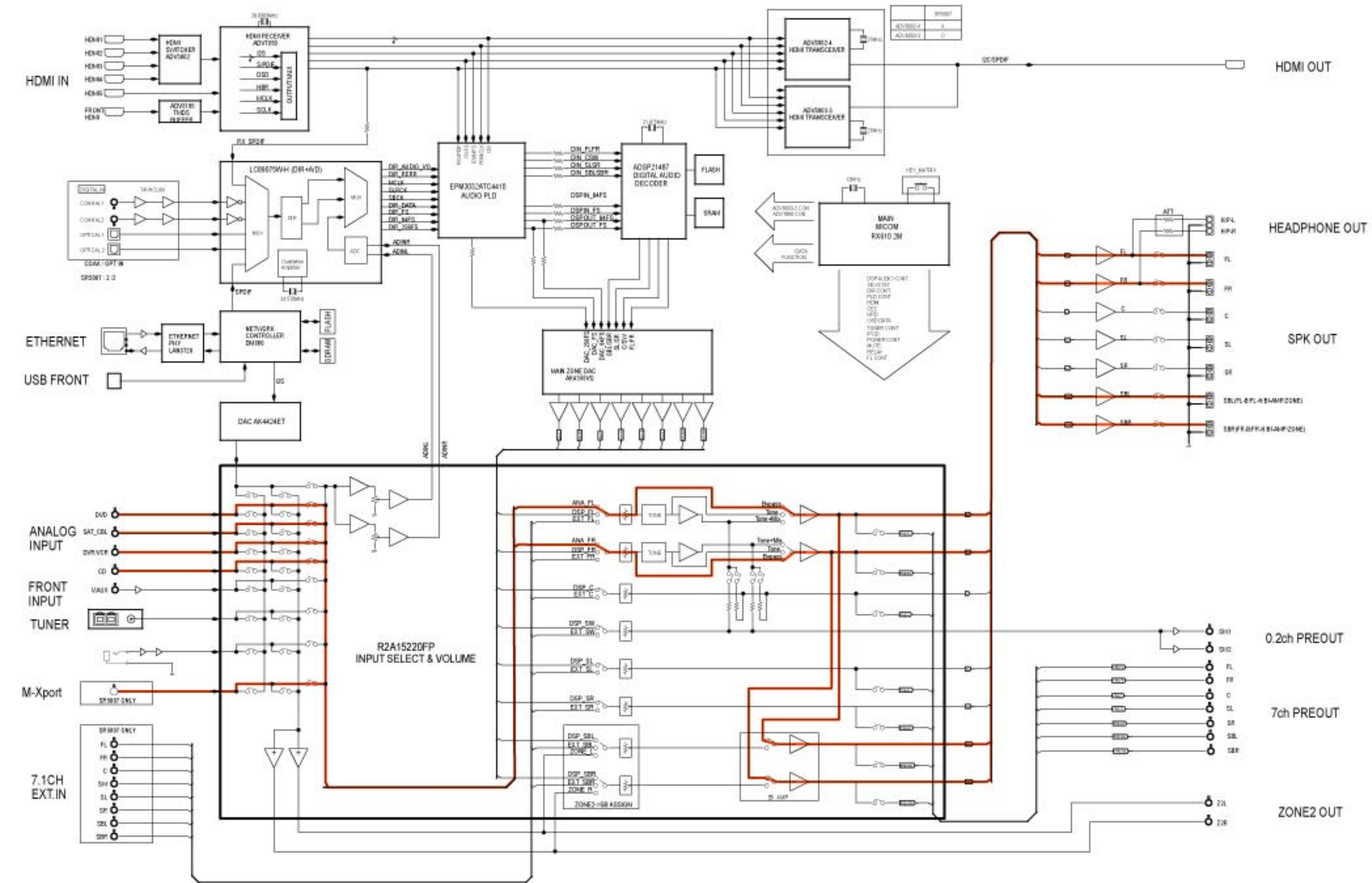
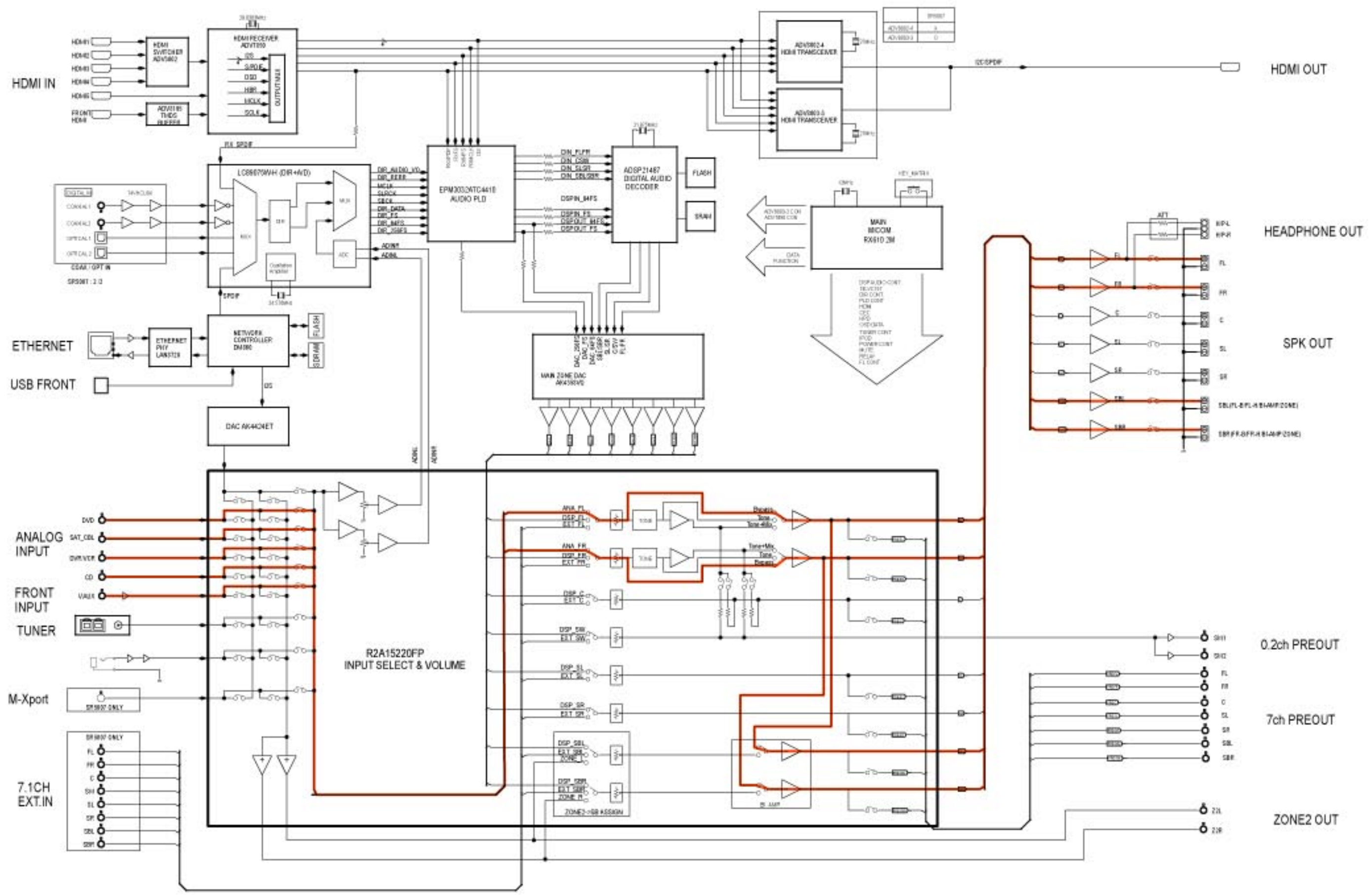
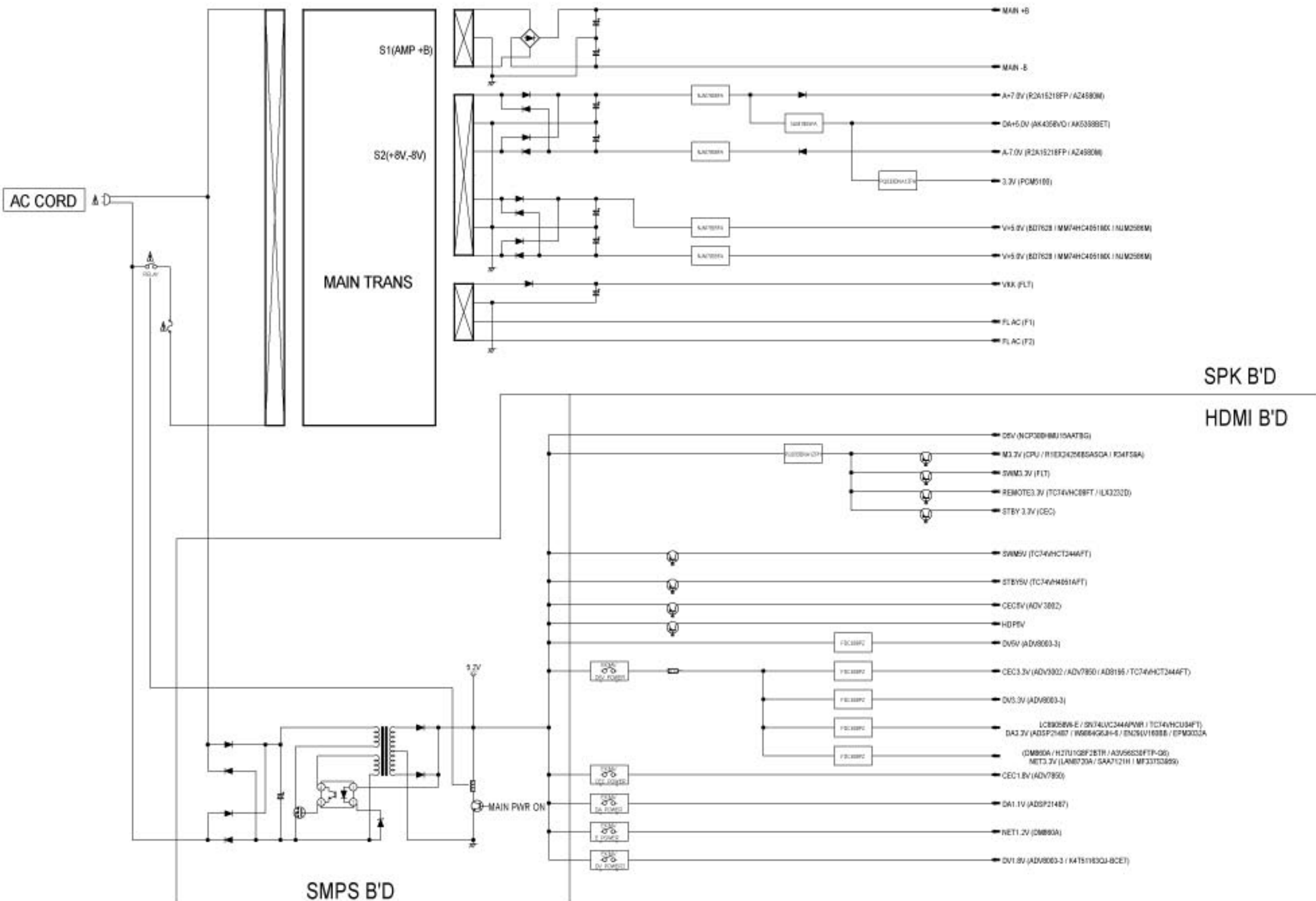


fig.14

AUDIO BLOCK DIAGRAM





Personal notes:

Personal notes:

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.

8U-110084S : EXTENSION UNIT KIT : 1 Set

• Connection of PCB HDMI JIG

-Preparation-

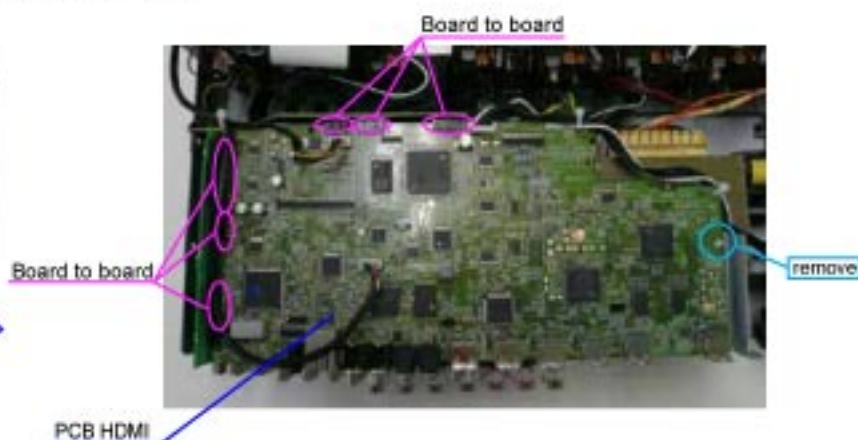
8U-110084S : EXTENSION UNIT KIT : 1 Set
Insulation sheet (Do not supply it) : 1 sheet
Ground lead (Do not supply it) : 1 pc

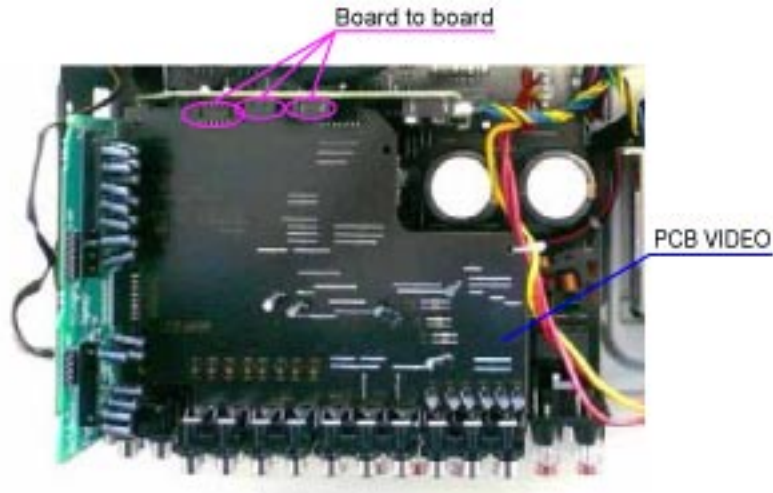
-Procedures-

(1) Remove the screws.

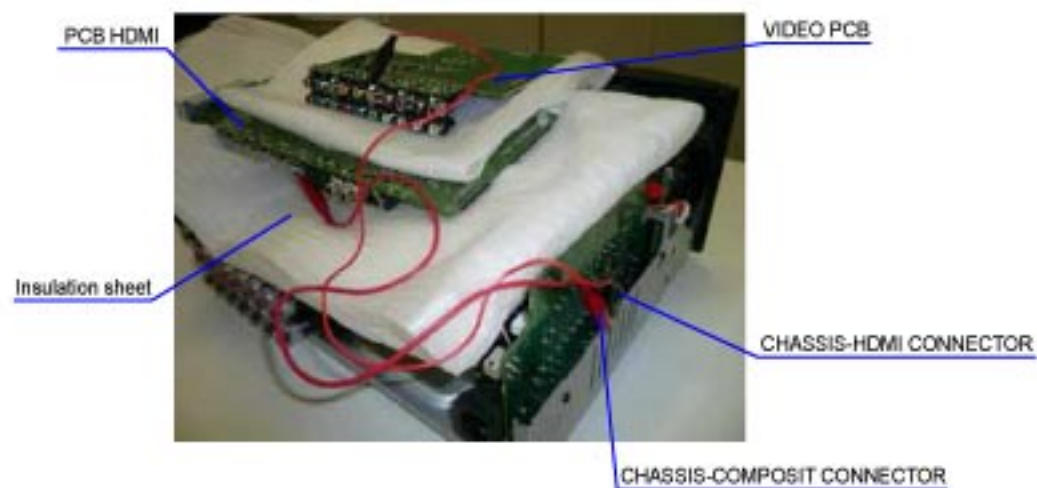


(2) Disconnect the connector board and HOLDER.

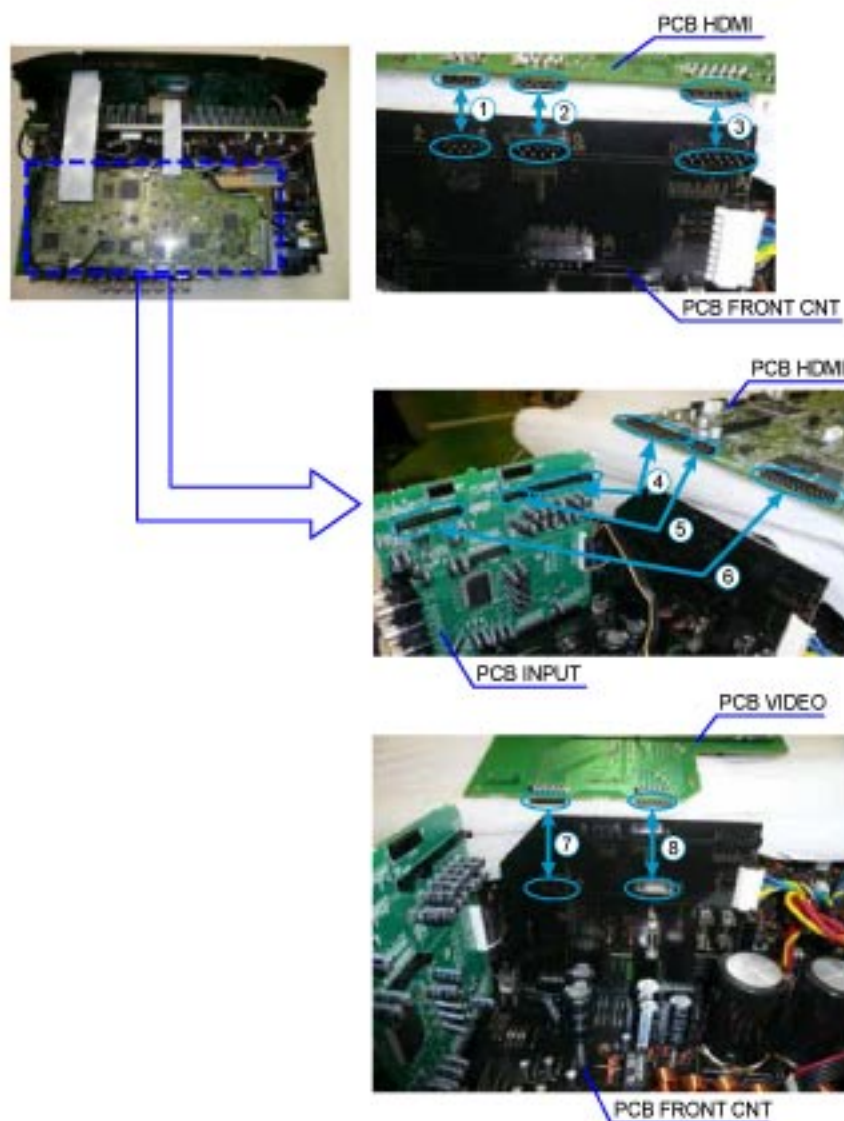




- (3) Detach PCB HDMI is detached from the chassis, and turn it over.
 Please put an insulation sheet that is larger than PCB HDMI under PCB.
 ※ Connect the ground point of PCB to the chassis with a ground lead or the like.



(4) Connect the six extension jig cables.



Connection table of Board to Board

No.	Pin	Ref. No.	PCB		Ref. No.	PCB
①	7pin	CP3404	FRONT CNT	↔	N3404	HDMI
②	9pin	CP3402	FRONT CNT	↔	N3402	HDMI
③	13pin	CP3401	FRONT CNT	↔	N3401	HDMI
④	23pin	CP4200	INPUT PCB	↔	N3407	HDMI
⑤	7pin	CP4203	INPUT PCB	↔	N3406	HDMI
⑥	31pin	CP4201	INPUT PCB	↔	N3403	HDMI
⑦	13pin	CP5001	FRONT CNT	↔	CN5001	VIDEO
⑧	13pin	CP5000	FRONT CNT	↔	CN5000	VIDEO

WHEN THE MICROPROCESSOR IS REPLACED WITH A NEW ONE

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

PWB Name	Ref. No.	Description	After replaced	Remark
HDMI	U3002	R5F56108VNFP	B	SOFTWARE: Main
HDMI	U2003	EN29LV160BB-70TIP	B	SOFTWARE: DSP ROM
HDMI	U2205	EPM3032A-TC44	B	SOFTWARE: AUDIO PLD
HDMI	U1602	MX25L3206EM2I-12G	B	SOFTWARE: OSD ROM (U model)

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.

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 ASSY" (205 page)

- PCB HDMI ASSY
- U1602 (MX25L6406EM2I-12G)
- U2205 (EPM3032A-TC44)
- U3002 (R5F56108VNFP)
- U2003 (EN29LV160BB-70TIP)

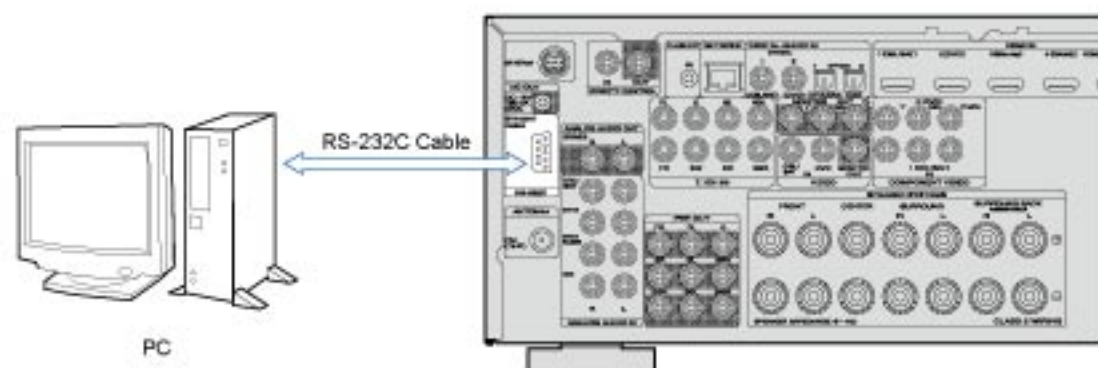
1. How to update by DFW

1.1. Preparations before starting the operation

- (1) Personal Computer (Installed "DFW_0014_SR5007_(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".



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" button and the "STATUS" 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_0014_SR5007_(Rev.X.X.X).exe" on desktop of PC.



1.5. Communication check

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



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



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



Please confirm the following

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

1.6. Download the firmware

- (1) Click the "Load" button.



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



1.7. Complete the firmware updating

- (1) Click the "Update" button.



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



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



1.8. Notice:

Please keep the following notice for firmware update.

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

Confirming the firmware's number after upgraded

After updating the firmware, check the version. Refer to "1. μ com/DSP Version display mode" (23 page).

2. How to update by DPMS

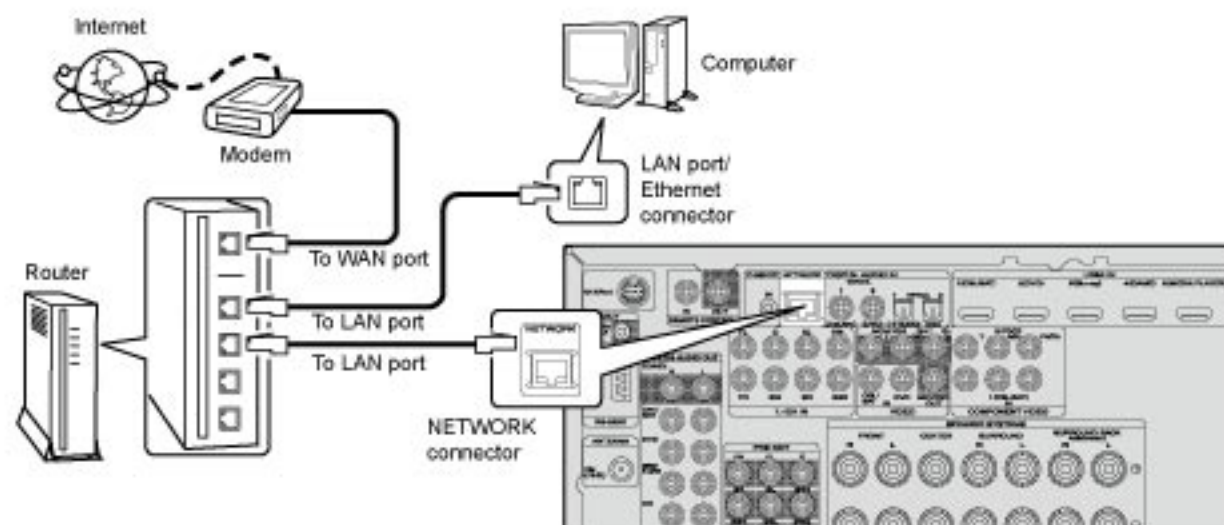
You can update the firmware by downloading the latest version from the Internet.

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

--- Cautions on Firmware Update ---

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

Once updating starts, normal operations on the SR5007 cannot be performed until updating is completed. Also, setting items of the GUI menu of SR5007 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.	Connection Fail 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.	Connection Fail 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.	Connection Fail 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.	Connection Fail 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.	Connection Fail 07	Check the network connection. Carry out the update in an environment that has little network load.
08	Firmware file data of Main CPU was requested but error message was received.	Connection Fail 08	Check the network connection. Carry out the update in an environment that has little network load.
09	Firmware file data of Main CPU was requested but it timed out.	Connection Fail 09	Check the network connection. Carry out the update in an environment that has little network load.
0A	Error (NG) message was received when firmware of Main CPU was downloaded.	Download fail 0A	Check the network connection. Carry out the update in an environment that has little network load.
0B	Error (line congestion) message was received when firmware of Main CPU was downloaded.	Download fail 0B	Check the network connection. Carry out the update in an environment that has little network load.
0C	Error (connection failure) message was received when firmware of Main CPU was downloaded.	Download fail 0C	Check the network connection. Carry out the update in an environment that has little network load.
0D	Received Package Version is wrong.	Connection fail 0D	Check the network connection. Carry out the update in an environment that has little network load.
0E	Connection to DPMS failed. (can not get NTP)	Connection fail 0E	Check the network connection. Carry out the update in an environment that has little network load.
10	Main CPU failed to receive firmware for rewriting sent from DM680A (when timed out).	Main 10 Updating failed	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).	Main 11 Updating failed	Turn off and on the power. Updating starts automatically.
12	There was invalid data in the firmware for rewriting sent from DM860A to Main CPU (when a Check Sum error occurred).	Main 12 Updating failed	Turn off and on the power. Updating starts automatically.
13	The deletion of block data failed before Main CPU was rewritten.	Main 13 Erase failed	Turn off and on the power. Updating starts automatically.
14	The rewriting of block data failed when Main CPU was rewritten.	Main 14 Updating failed	Turn off and on the power. Updating starts automatically.
15	The data verification was invalid after Main CPU was rewritten.	Main 15 Update CheckNG	Turn off and on the power. Updating starts automatically.
20	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (AutoIP).	Connection fail 20	Check the network connection. Carry out the update in an environment that has little network load.
21	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (when timed out).	Connection fail 21	Check the network connection. Carry out the update in an environment that has little network load.
22	Log-in to DPMS failed.	Login failed 22	Reset and update again. Carry out the update in an environment that has little network load.
23	Line, etc., is busy when logging into DPMS.	Server is busy 23	Carry out the update in an environment that has little network load.
24	Connection to DPMS failed.	Connection fail 24	Check the network connection. Carry out the update in an environment that has little network load.
25	Mode change failure of DM860A.	Connection fail 25	Reset and update again.
26	Data acquisition failed (timed out) when firmware of Main CPU was downloaded. Received Package Version is wrong.	Download fail 26	Check the network connection. Carry out the update in an environment that has little network load.
27	Mode change failure of DM860A.	Connection fail 27	Reset and update again.
36	Log-in to DPMS failed when Main CPU was rewritten.	Main 36 Login failed	Carry out the update in an environment that has little network load.
37	Line, etc., is busy when logging into DPMS when Main CPU was rewritten.	Main 37 Server is busy	Carry out the update in an environment that has little network load.

Error Code	Details of Error code	Display (Eight digits or more are the scrolling displays.)	Coping strategies
38	Connection to DPMS failed when Main CPU was rewritten.	Main 38 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
39	Connection to DPMS timed out when Main CPU was rewritten.	Main 39 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
3A	Error (NG) message was received when firmware was downloaded or Main CPU was rewritten.	Main 3A Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3B	Error (line congestion) message received when downloading firmware when Main CPU was rewritten.	Main 3B Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3C	Error (connection failure) message received when downloading firmware when Main CPU was rewritten.	Main 3C Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3D	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (AutoIP).	Main 3D Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
3E	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (when timed out).	Main 3E Connect failed	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.	DSP 50 Login failed	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.	DSP 51 Server is busy	Carry out the update in an environment that has little network load.
52	Connection to DPMS failed when firmware such as DSP and PLD was rewritten.	DSP 52 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
54	Error message received regarding firmware data after the log-in to DPMS when firmware such as DSP and PLD was rewritten.	DSP 54 Updating failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
55	When firmware such as DSP and PLD was rewritten, request was made for firmware data after the log-in to DPMS, but it timed out.	DSP 55 Updating failed	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.	DSP 56 Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
57	Firmware download error received (line congestion) after the log-in to DPMS when firmware such as DSP and PLD was rewritten.	DSP 57 Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.

Error Code	Details of Error code	Display (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 58 Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
5A	NACK was received when "C" command sent to DSP, PLD etc.	DSP 5A Connect failed	Turn off and on the power. Updating starts automatically.
5B	NACK was received when "L" command sent to DSP, PLD etc.	DSP 5B Updating failed	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 5C Updating failed	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 5D Updating failed	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 5E Updating failed	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 5F Updating failed	Turn off and on the power. Updating starts automatically.
60	NACK was received when "P" command sent to DSP, PLD etc.	DSP 60 Updating failed	Turn off and on the power. Updating starts automatically.
61	NACK was received when "I" command sent to DSP, PLD etc.	DSP 61 Update CheckNG	Turn off and on the power. Updating starts automatically.
80	Acquisition of serial flash data failed before serial flash was deleted.	GUI 80 Updating failed	Turn off and on the power. Updating starts automatically.
81	Deleting data failed before serial flash was rewritten.	GUI 81 Updating failed	Turn off and on the power. Updating starts automatically.
82	Receiving firmware for rewriting serial flash sent by DM860A failed (when timed out).	GUI 82 Updating failed	Turn off and on the power. Updating starts automatically.
83	Receiving firmware for rewriting serial flash sent by DM860A failed (when an error).	GUI 83 Updating failed	Turn off and on the power. Updating starts automatically.
84	Receiving firmware for rewriting serial flash sent by DM860A failed (when a Check Sum error).	GUI 84 Updating failed	Turn off and on the power. Updating starts automatically.

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).	GUI 85 Updating failed	Turn off and on the power. Updating starts automatically.
86	The data verification was invalid after serial flash was rewritten.	GUI 86 Updating failed	Turn off and on the power. Updating starts automatically.
A0	Acquisition of (Application Mode) IP address failed before DM860A was rewritten (AutoIP).	EIMG A0 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
A1	Acquisition of (Application Mode) IP address failed before DM860A was rewritten (when timed out).	EIMG A1 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
A2	Invalid login via DPMS access was notified when DM860A related firmware was rewritten (Application Mode).	EIMG A2 Login failed	Check the network connection. Carry out the update in an environment that has little network load.
A3	Line congestion via DPMS access was notified when DM860A related firmware was rewritten (Application Mode).	EIMG A3 Server is busy	Check the network connection. Carry out the update in an environment that has little network load.
A4	Connection failure via DPMS access was notified when DM860A related firmware was rewritten (Application Mode).	EIMG A4 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
A6	Firmware data error message was received after DPMS login when DM860A related firmware was rewritten (Application Mode).	EIMG A6 Updating failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
A7	When DM860A related firmware was rewritten (Application Mode), request was made for firmware data after DPMS login but it timed out.	EIMG A7 Updating failed	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).	EIMG AE Download failed	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).	EIMG AF Download failed	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).	EIMG B0 Download failed	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)	EIMG B1 Download failed	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.	EIMG B2 Updating failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.

3. How to update by USB Memory

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

3.1. Connecting to the Network

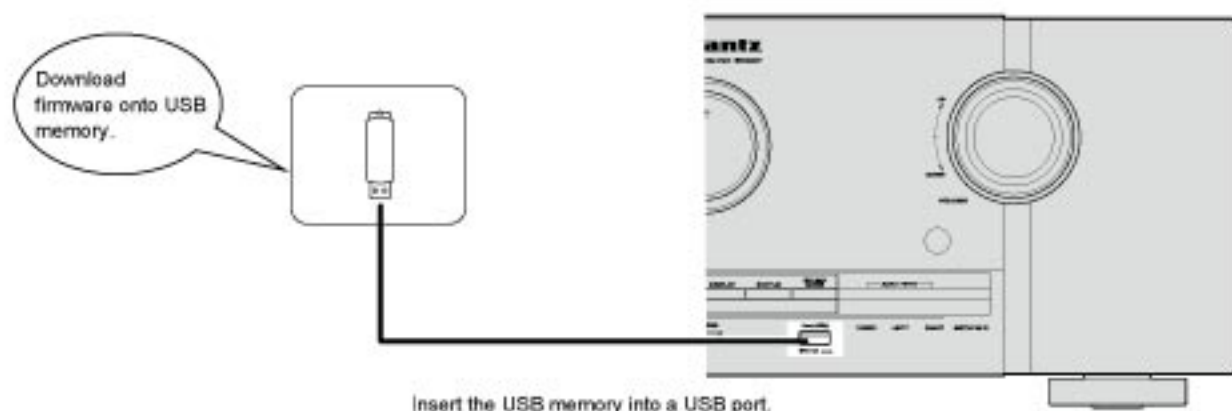
(1) Requirements

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

Place the USB update File in an appropriate folder. The folder name should be the Product ID based on the Model name/area.

Model Name	Model Area	Product ID
SR5007	North America (U)	100100140100
	Europe (N)	100100140200
	China (K)	100100140200

(2) Setting



3.2. Download the firmware

- (1) While pressing the "PRESET CH +" button and the "STATUS" button at the same time, power on this unit.
- (2) "USB Update Start" appears in the FL Display.
- (3) Press the "ENTER" button on remote control. "UpdateFileCheck" appears in the FL Display and the Update of the Firmware starts.
- (4) During the update, the power indicator lights in red and the GUI screen display disappears.
The remaining update time appears in the display on the main unit.
When the update is completed, "Updateing Complete" appears in the FL Display and then this unit returns to the normal state.
- (5) Execute a initialization (10 page).

--- 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.

3.3. 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.	Connection Fail 01	Disconnect and connect the USB memory.
02	Line, etc., is busy when logging into DPMS.	Files Not Found 02	Make sure that the FirmwareFile is in the USB memory.
03	Connection to DPMS failed.	Connection Fail 03	Check the supported Model name/area for the FirmwareFile.
04	Firmware file data was requested but error message was received.	Connection Fail 04	Start the USB Update again.
05	Firmware file data was requested but it timed out.	Connection Fail 05	Start the USB Update again.
06	Firmware file data was requested but error message was received.	Connection Fail 06	Start the USB Update again.
07	All firmware file data was requested but it timed out.	Connection Fail 07	Start the USB Update again.
08	Firmware file data of Main CPU was requested but error message was received.	Connection Fail 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.	Connection Fail 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.	Files Not Found 0B	Check the network connection. Carry out the update in an environment that has little network load.
0D	Received Package Version is wrong.	Connection Fail 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 10 Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (Ⓢ)" button for five seconds.
11	Main CPU failed to receive firmware for rewriting sent from DM860A (when an error occurred).	Main 11 Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (Ⓢ)" button for five seconds.
12	There was invalid data in the firmware for rewriting sent from DM860A to Main CPU (when a Check Sum error occurred).	Main 12 Updating failed	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 13 Erase failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (Ⓢ)" button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
14	The rewriting of block data failed when Main CPU was rewritten.	Main 14 Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
15	The data verification was invalid after Main CPU was rewritten.	Main 15 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.
20	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (AutoIP).	Connection fail 20	Disconnect and connect the USB memory.
21	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (when timed out).	FilesNotFound 21	Disconnect and connect the USB memory.
22	Log-in to DPMS failed.	NotMatchFirm 22	Check the supported Model name/area for the FirmwareFile.
23	Line, etc., is busy when logging into DPMS.	ConnectionFail 23	Disconnect and connect the USB memory.
24	Connection to DPMS failed.	Connection fail 24	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
25	Mode change failure of DM860A.	Connection fail 25	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
26	Data acquisition failed (timed out) when firmware of Main CPU was downloaded. Received Package Version is wrong.	Download fail 26	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
27	Mode change failure of DM860A.	Connection fail 27	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
36	Log-in to DPMS failed when Main CPU was rewritten.	Connection fail 36	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.	FilesNotFound 37	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.	NotMatchFirm 38	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 39	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 3A	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.	FilesNotFound 3B	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 3E 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 50	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.	FilesNotFound 51	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.	NotMatchFirm 52	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 54 Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (Ⓞ)" button for five seconds.
55	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 55 Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (Ⓞ)" button for five seconds.
56	Downloading firmware failed after the log-in to DPMS when firmware such as DSP and PLD was rewritten.	Connection fail 56	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.	FilesNotFound 57	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 5A Connect failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (Ⓞ)" button for five seconds.
5B	NACK was received when "L" command sent to DSP, PLD etc.	DSP 5B Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (Ⓞ)" button for five seconds.
5C	DSP, PLD etc. failed to receive firmware for rewriting sent from DM860A (when timed out).	DSP 5C Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (Ⓞ)" button for five seconds.
5D	DSP, PLD etc. failed to receive firmware for rewriting sent from DM860A (when an error occurred).	DSP 5D Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (Ⓞ)" button for five seconds.
5E	Data in firmware such as DSP and PLD for rewriting sent from DM860A was invalid (when a Check Sum error occurred).	DSP 5E Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (Ⓞ)" button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
5F	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 Checking	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
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 Checking	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
64	NACK was received when "I" command sent to DSP, PLD etc.	DSP 64 Update Checking	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
80	Acquisition of serial flash data failed before serial flash was deleted.	GUI 80 Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
81	Deleting data failed before serial flash was rewritten.	GUI 81 Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
82	Receiving firmware for rewriting serial flash sent by DM860A failed (when timed out).	GUI 82 Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
83	Receiving firmware for rewriting serial flash sent by DM860A failed (when an error).	GUI 83 Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
84	Receiving firmware for rewriting serial flash sent by DM860A failed (when a Check Sum error).	GUI 84 Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
85	Receiving firmware for rewriting serial flash sent by DM860A failed (when invalid data was received).	GUI 85 Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
86	The data verification was invalid after serial flash was rewritten.	GUI 86 Updating failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
A2	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).	FilesNotFound A3	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).	NotMatchFirm A4	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).	EIMG A6 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.
A7	When DM860A related firmware was rewritten (Application Mode), request was made for firmware data after DPMS login but it timed out.	EIMG A7 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.
AE	Firmware download error message received (when download fails) when DM860A related firmware was rewritten (Boot Loader Mode).	Connection fail AE	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).	FilesNotFound AF	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)	Download fail B1	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.	EIMG B2 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.
B3	Firmware writing error message. (Timeout failure)	EIMG B3 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.
B4	Mode change failure of DM860A. (Boot Loader Mode)	EIMG B4 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.
B5	Mode change failure of DM860A. (Application Mode)	EIMG B5 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.

--- 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.

3.4. Device display during firmware update

Display of target device during firmware update.

Target device	Display	Error code when an error occurs
Main	M a i n * * * n i n * * %	08 - 0C 10 - 15 22 - 24 36 - 3E
Audio PLD	A P L D * * * n i n * * %	50 - 52 54 - 58 5A - 61
DSP	D S P * * * n i n * * %	50 - 52 54 - 58 5A - 61
GUI Serial Flash	G U I * * * n i n * * %	50 - 52 54 - 58 5A - 61 80 - 86
DM860A Boot Loader	E S B L * * * n i n * * *	A0 - A4 A6 - A7 AE - B5
DM860A Image	E I M G * * * n i n * * *	A0 - A4 A6 - A7 AE - B5
DM860A Image (Emergency Mode)	U p d a t e R e t r y	-

Confirming the firmware's number after upgraded

After updating the firmware, check the version. Refer to "1. μ com/DSP Version display mode" (23 page).

ADJUSTMENT

Audio Section

Adjusting Idling Current

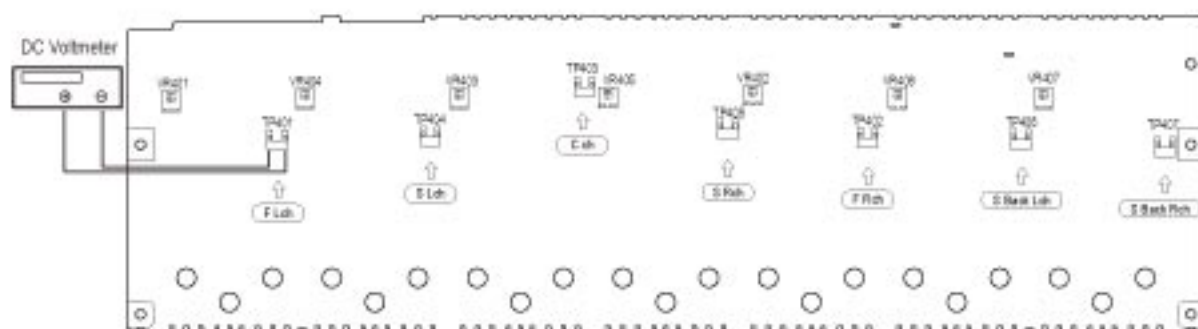
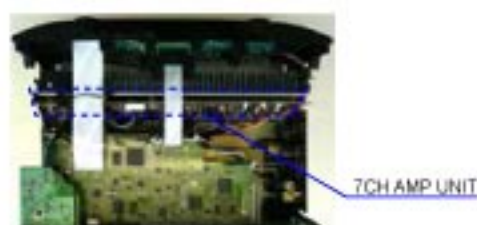
Required measurement equipment: DC Voltmeter

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.



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

Sound modes and surround parameters

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

Symbols in the table

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

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

Sound Mode	Channel output					Surround Parameter				
	Front L/R	Center	Surround L/R	Surround back L/R	Front height L/R	Subwoofer	Home Theater EQ	Loudness Management #2	Dynamic Compression #3	Low Frequency Effects #4
DIRECT/PURE DIRECT (2channel)*1	○	○	○	○*8	○*6	○*5		○	○	○
DIRECT/PURE DIRECT (Multi-channel)*1	○	○	○			○		○	○	○
STEREO	○	○	○	○	○*7	○	○*8	○		○
MULTICH IN	○	○	○		○	○		○		
DOLBY PRO LOGIC II	○	○	○	○		○	○*9	○	○	
DOLBY PRO LOGIC IIx	○	○	○			○	○*10	○		
DOLBY PRO LOGIC II	○	○	○			○		○		
DOLBY PRO LOGIC	○	○	○			○	○*7	○		
DTS NEO6	○	○	○	○	○*7	○	○*8	○		○
DOLBY DIGITAL	○	○	○	○	○*7	○	○*8			○
DOLBY DIGITAL Plus	○	○	○	○	○*7	○			○	○
DOLBY TrueHD	○	○	○	○	○*7	○	○*8	○		○
DTS SURROUND	○	○	○	○	○*7	○	○*8			○
DTS-ES/24	○	○	○	○	○*7	○	○*8			○
DTS-HD	○	○	○	○	○*7	○	○*8			○
DTS Express	○	○	○	○	○	○		○		○
MULTICH STEREO	○	○	○	○		○		○	○	○
VIRTUAL	○	○	○	○		○				

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

*2 This item can be selected when a Dolby TrueHD signal is played.

*3 This item can be selected when a Dolby Digital or DTS signal is played.

*4 This item can be selected when a Dolby Digital or DTS signal or DTS-Audio is played.

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

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

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

*8 This setting is unavailable when the set sound mode name contains "PLIIx Movie" or "DTS NEO:6 Cinema".

*9 This setting is possible when the sound mode is "PLIIx Movie" or "DTS NEO:6 Cinema".

*10 This setting is possible when the sound mode is "PLIIx Movie".

Sound Mode	Surround Parameter				Subwoofer	Tone ★11	Audyssey ★12			HDAK ★14
	PRO LOGIC IIx (Music mode only)		MCE-6 Music mode only				MultEQ® XT	Dynamic EQ ★13	Dynamic Volume ★13	
	Parameter	Dimension	Center Width	Center Image						
DIRECT/PURE DIRECT (2channel)★1					○★5					
DIRECT/PURE DIRECT (Multi-channel)★1					○					
STEREO						○			○	○
MULTI CH IN						○			○	○
DOLBY PRO LOGIC IIx						○			○	○
DOLBY PRO LOGIC IIx	○	○				○			○	○
DOLBY PRO LOGIC II	○	○	○			○			○	○
DOLBY PRO LOGIC	○	○	○			○			○	○
DTS NEO 6					○	○			○	○
DOLBY DIGITAL						○			○	
DOLBY DIGITAL Plus						○			○	
DOLBY TruHD						○			○	
DTS SURROUND						○			○	
DTS 96/24						○			○	
DTS-HD						○			○	
DTS Express						○			○	
MULTI CH STEREO						○			○	○
VIRTUAL						○			○	○

- ★1 During playback in PURE DIRECT mode, the surround parameters are the same as in DIRECT mode.
 ★5 Only when "Subwoofer Mode" is set to "LFE+Main", sound is output from the subwoofer.
 ★11 This item cannot be set when "Dynamic EQ" is set to "On".
 ★12 For HD Audio whose sampling frequency of an input signal is more than 96 kHz, this sound parameter cannot be set.
 ★13 This item cannot be set when "MultEQ® XT" is set to "Off" or "Graphic EQ".
 ★14 This item can be set when the input signal is analog. PCM 48 kHz or 44.1 kHz.

Sound Mode		NOTE	Input signal types and formats															
			ANALOG	PCM		DTS-HD		DTS				DOLBY		DOLBY DIGITAL				
				PCM (multi ch)	PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES-CHT (With Flag)	DTS ES-MIX (With Flag)	DTS 5.1ch	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus (With Flag)	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1ch)	DOLBY DIGITAL (2ch)
MULTICHIN																		
MULTICHIN		◆1◆3	●															
MULTICHIN + PULiX MOVIE		◆1◆2	○															
MULTICHIN + PULiX MUSIC		◆4◆5	○															
MULTICHIN + PULiX		◆1◆2	○															
MULTICHIN + Dolby EX		◆1◆2	● (7.1)															
MULTICHIN 7.1		◆1◆2	●															
DIRECT																		
DIRECT			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
PURE DIRECT																		
PURE DIRECT			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
DGP SIMULATION																		
MULTICH STEREO			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VIRTUAL			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
STEREO																		
STEREO			●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

◆1 This sound mode can be selected when "Assign Mode" is set to "Surround Back".

◆2 If "Speaker Config." - "Sur. Back" is set to "None", this sound mode cannot be selected.

◆3 If "Speaker Config." - "Sur. Back" is set to "1 splr" or "None", this sound mode cannot be selected.

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

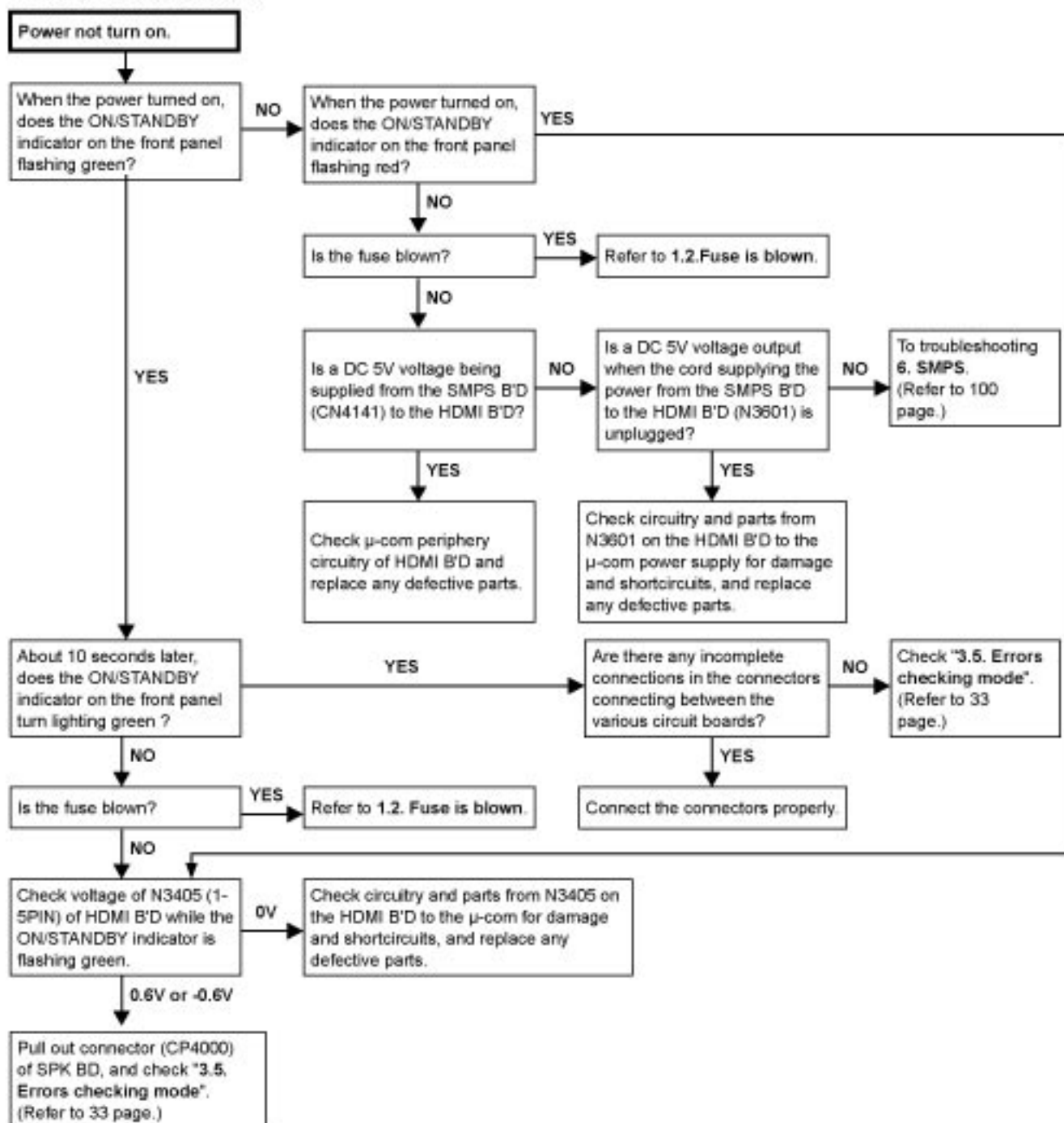
◆5 This sound mode can be selected when "Assign Mode" is set to "Front Height".

- *1 This sound mode can be selected when "Assign Mode" is set to "Surround Back".
- *2 If "Speaker Config." - "Surround Back" is set to "None", this sound mode cannot be selected.
- *3 If "Speaker Config." - "Surround Back" is set to "1spkr" or "None", this sound mode cannot be selected.
- *4 If "Speaker Config." - "Front Height" is set to "None", this sound mode cannot be selected.
- *5 This sound mode can be selected when "Assign Mode" is set to "Front Height".

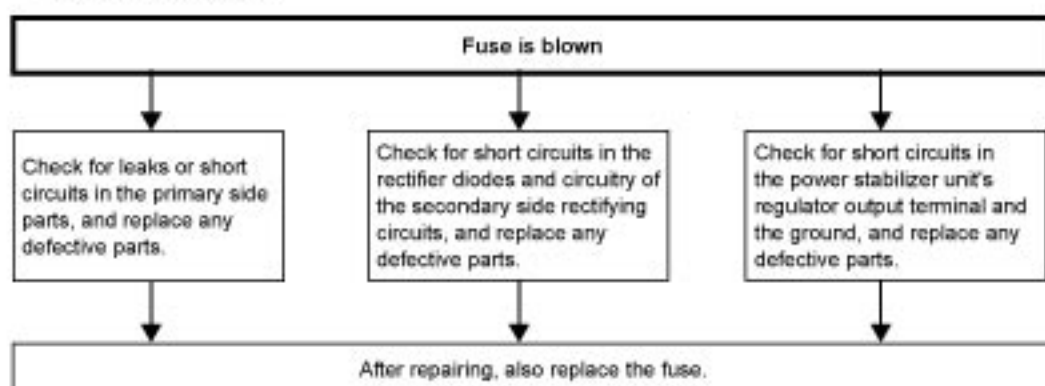
TROUBLE SHOOTING

1. POWER

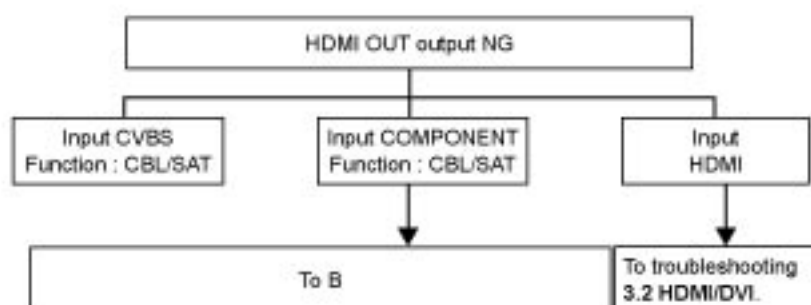
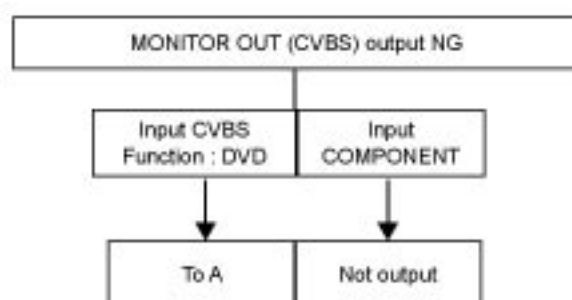
1.1. Power not turn on

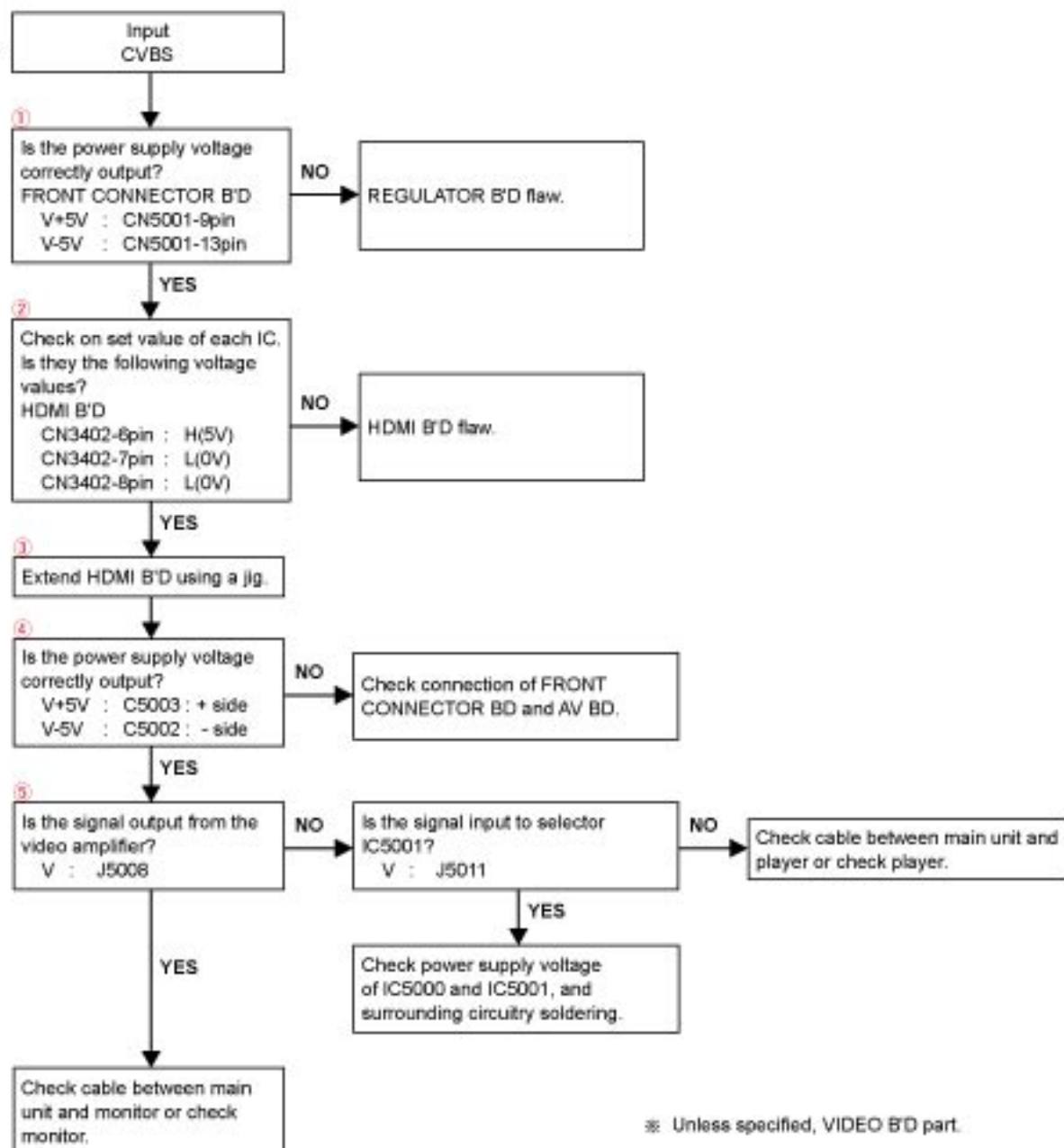


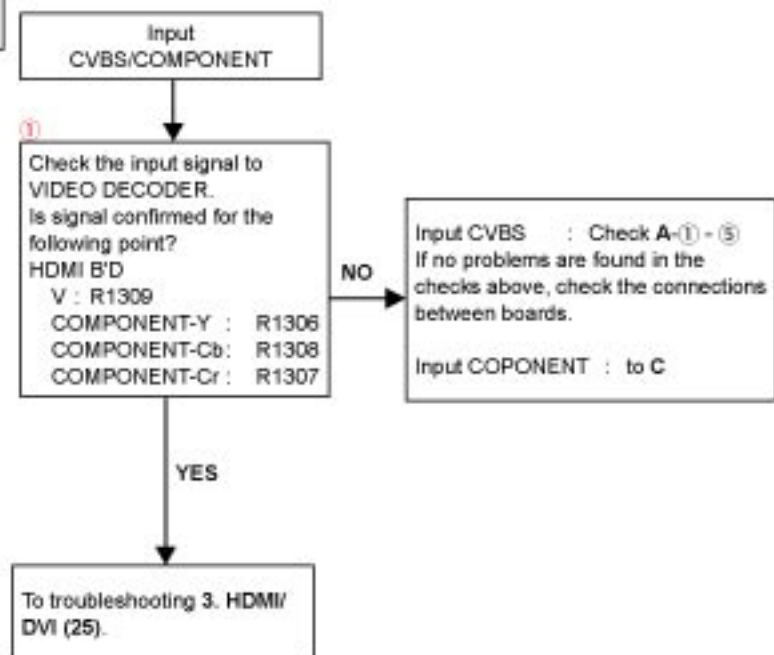
1.2. Fuse is blown

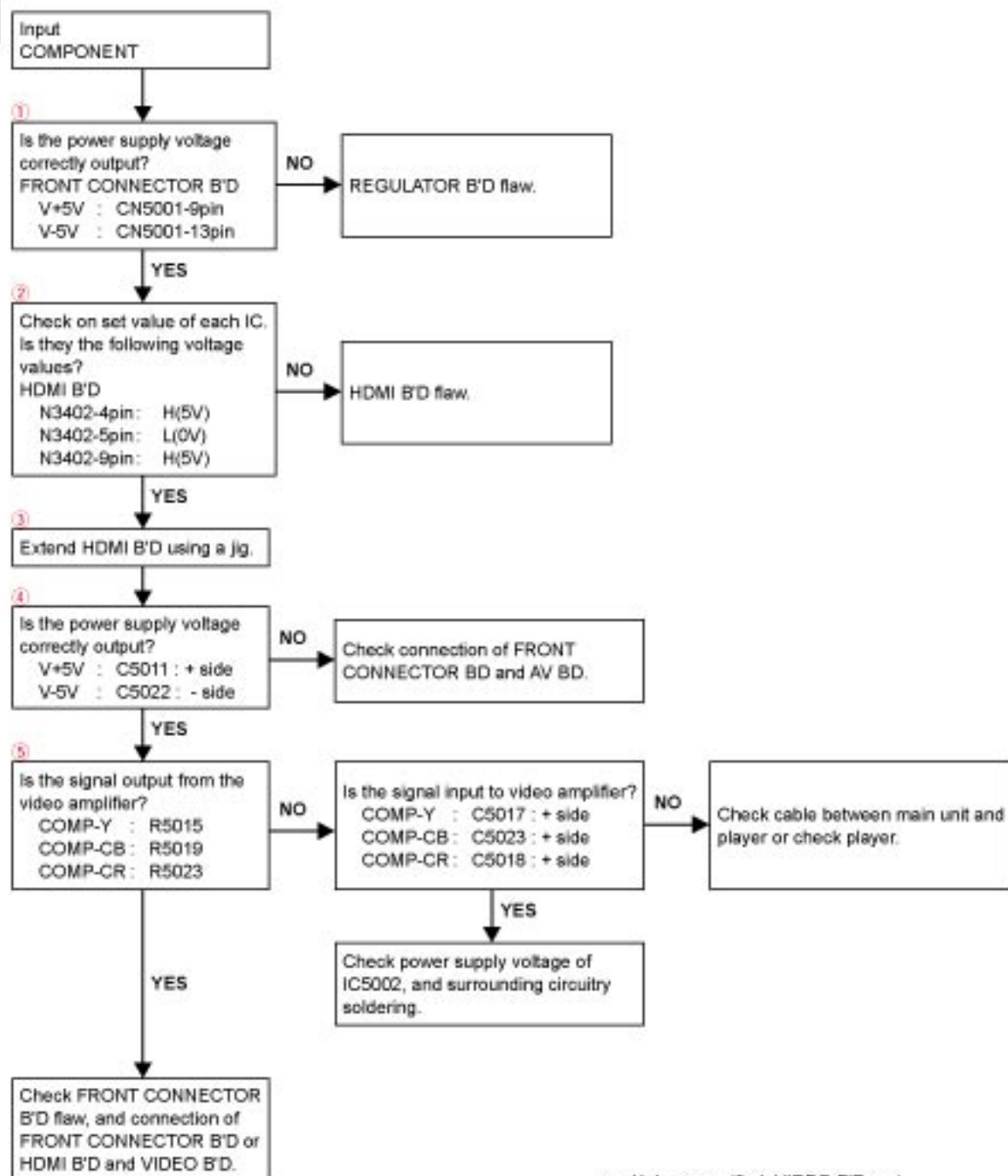


2. Analog video



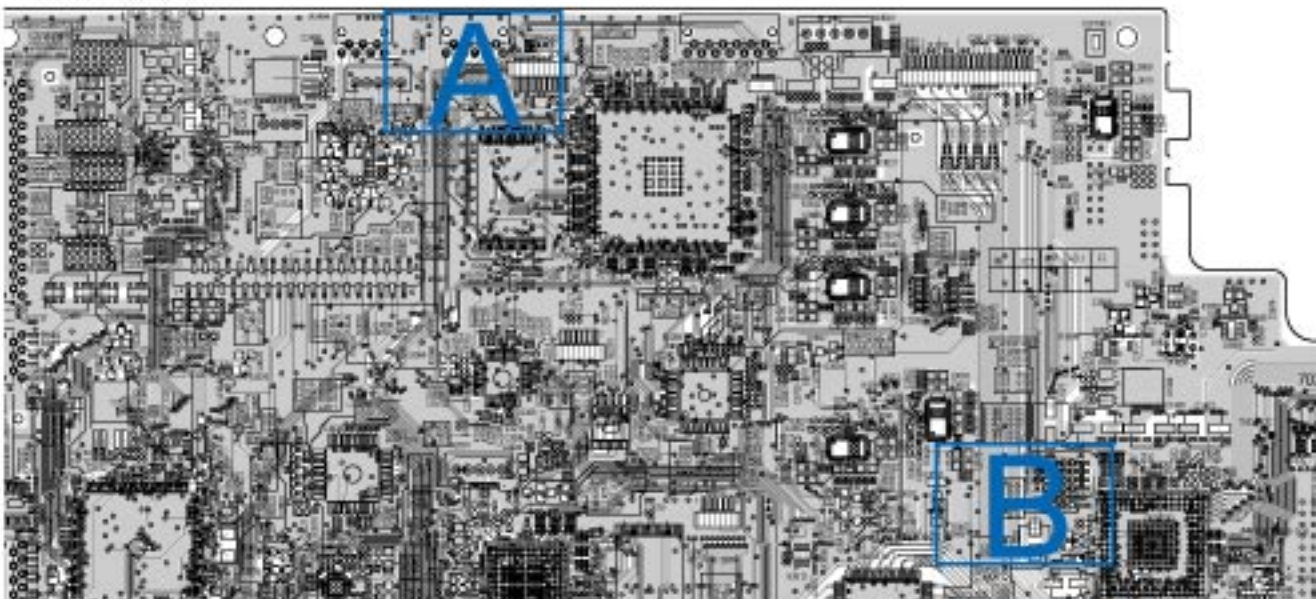






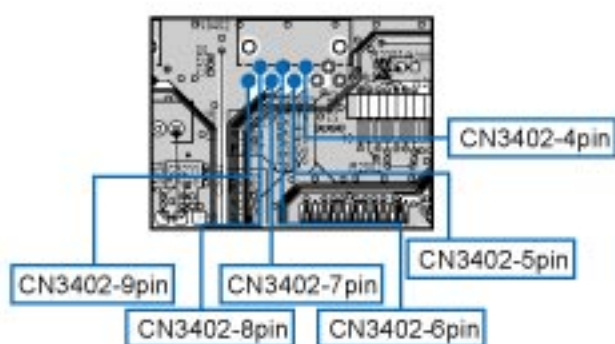
※ Unless specified, VIDEO B'D part.

HDMI test point

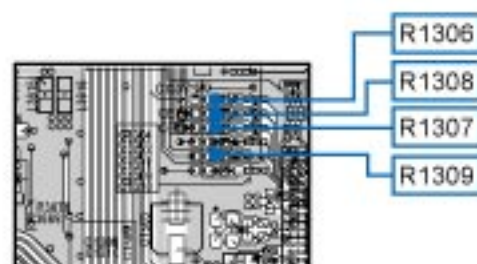


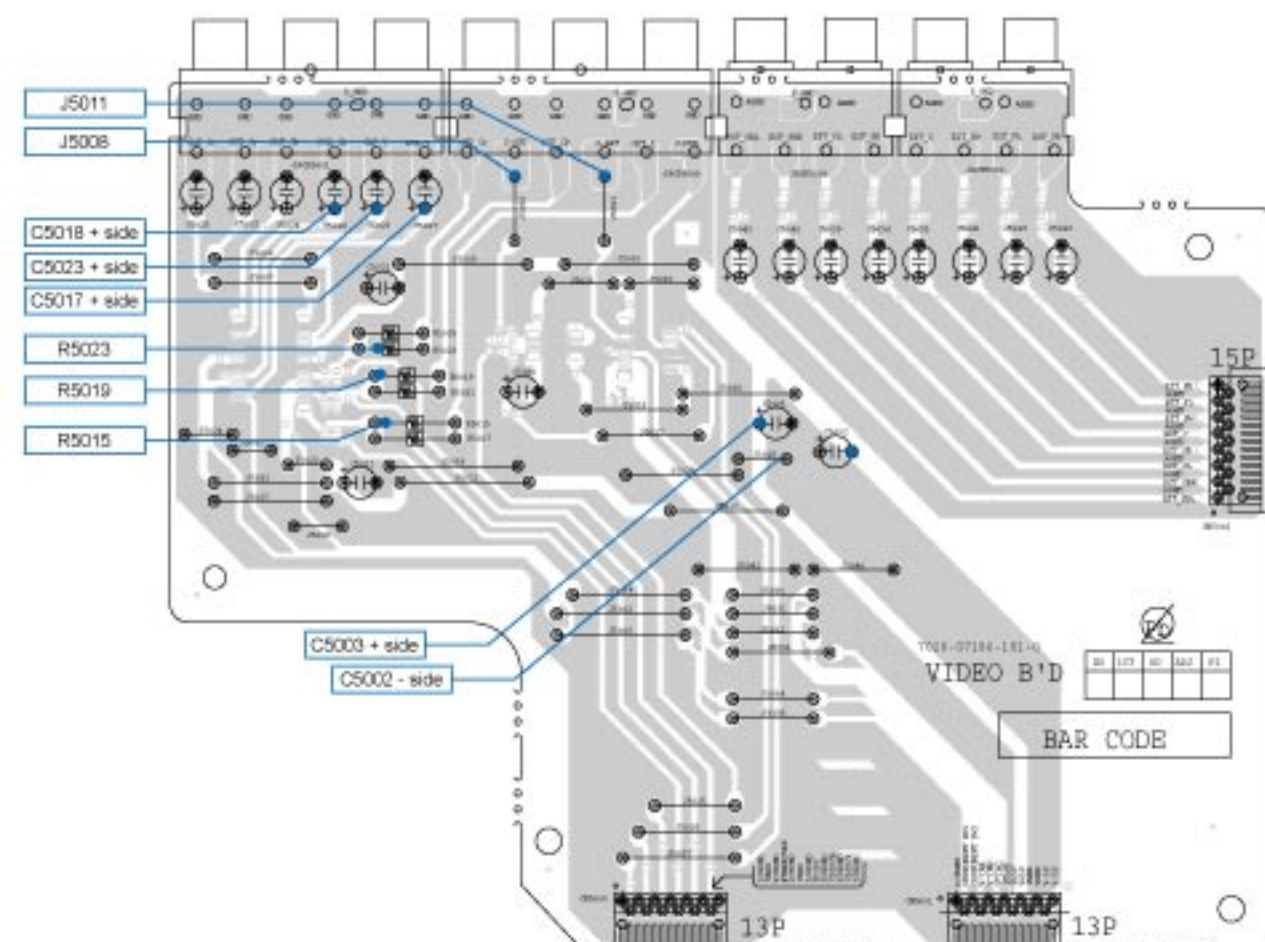
(COMPONENT SIDE)

Detail A



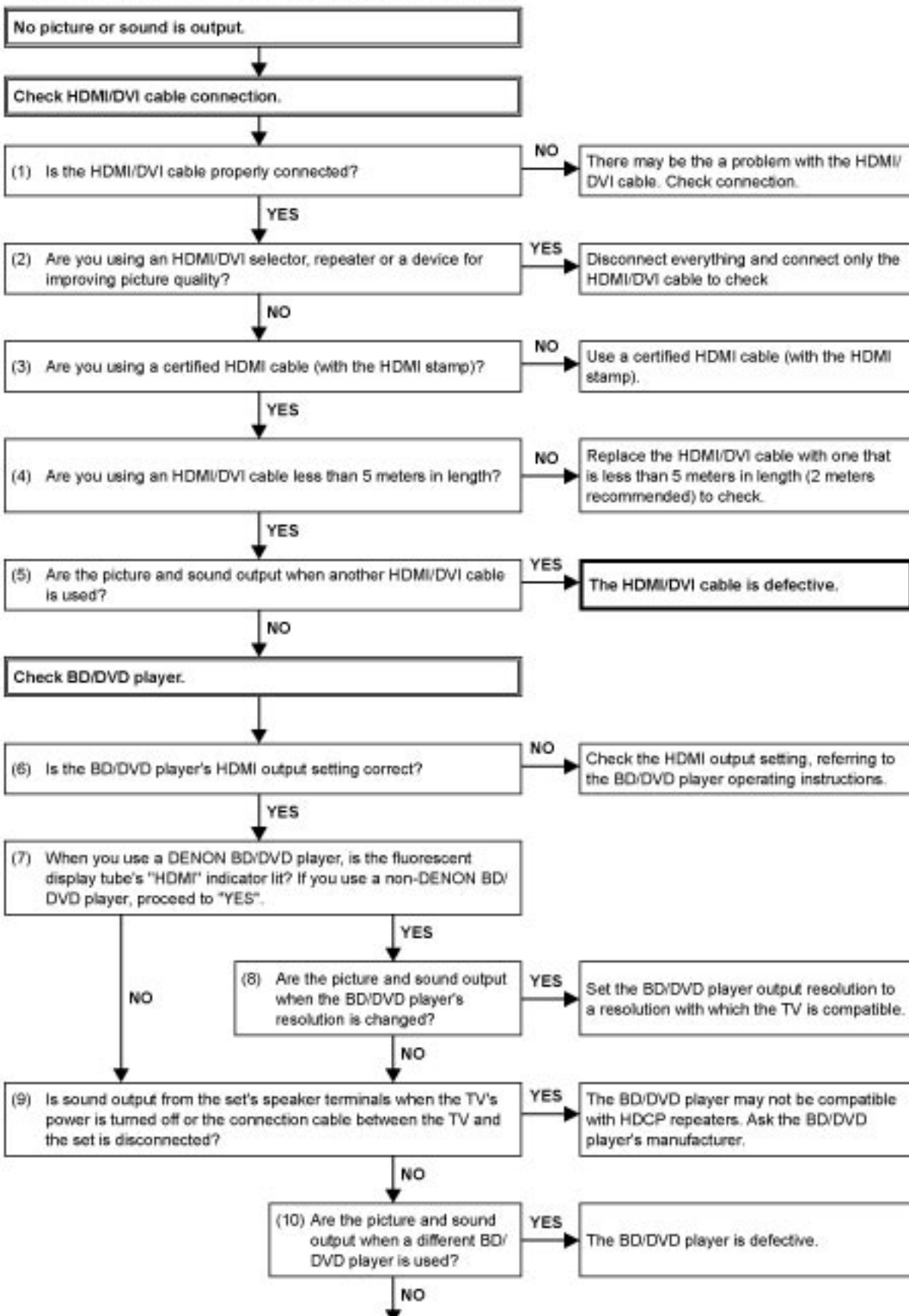
Detail B

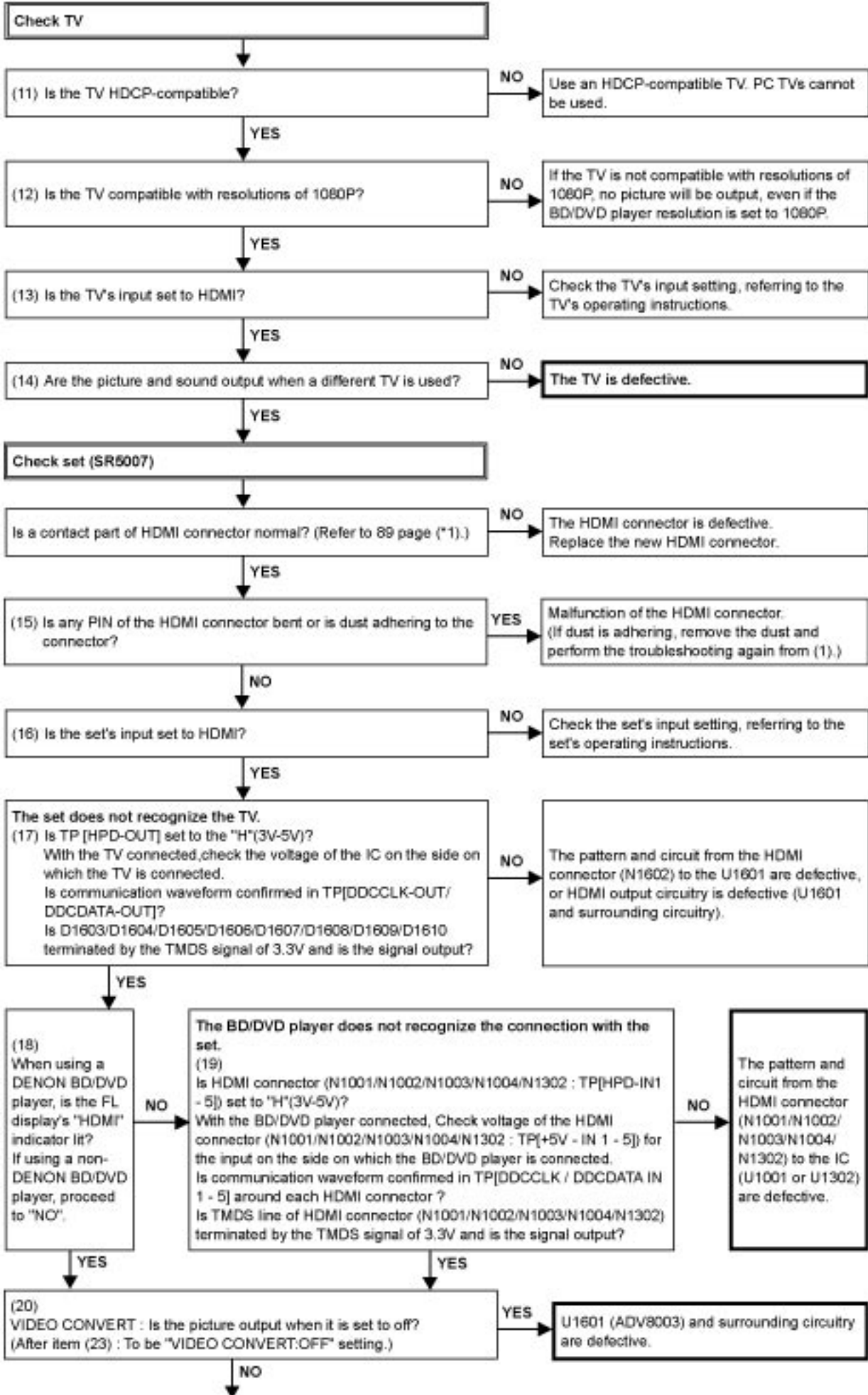


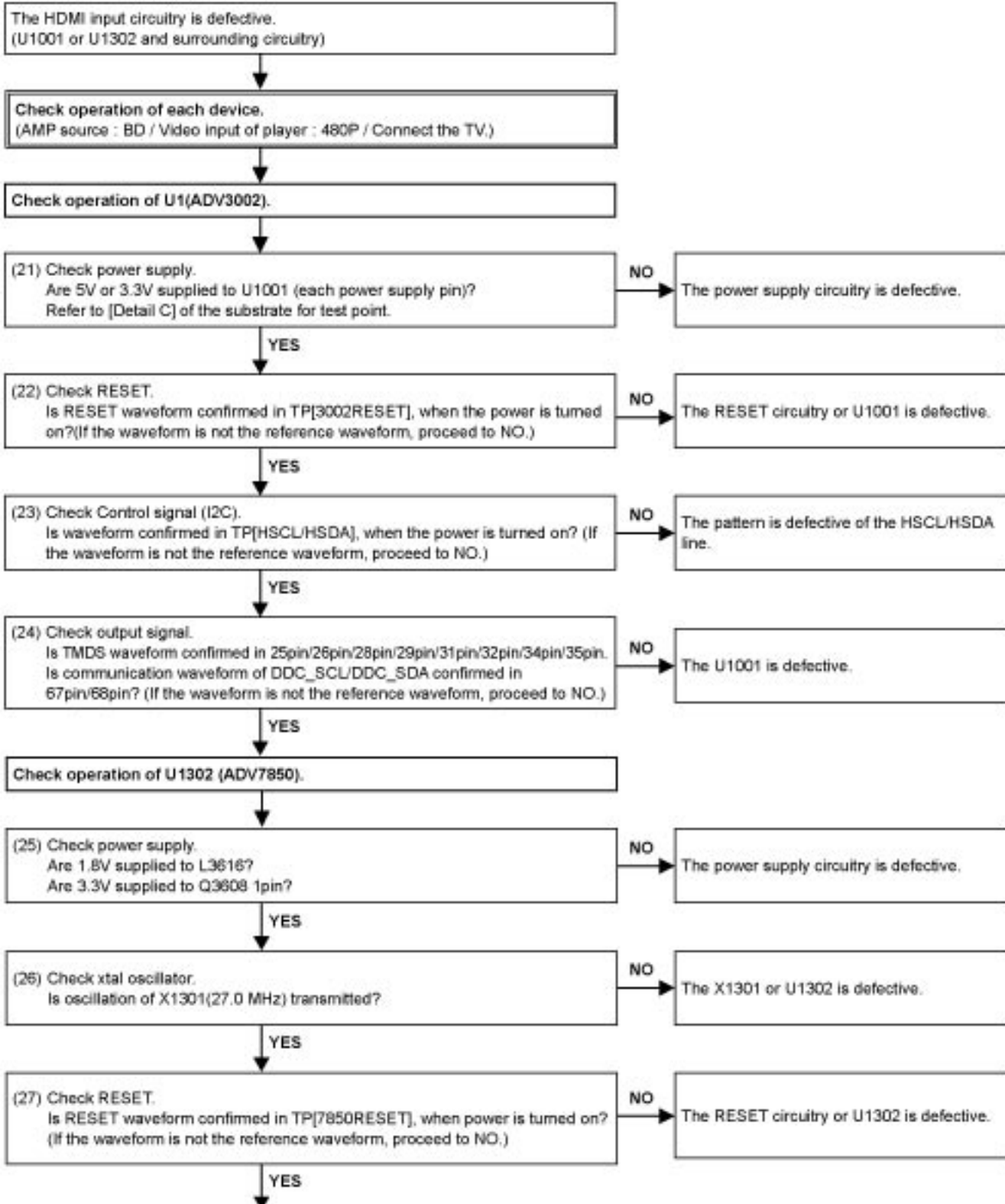


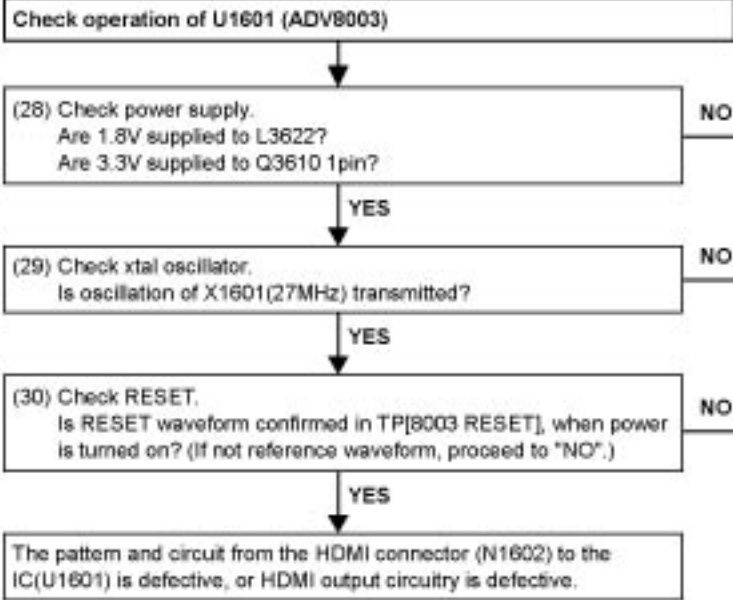
3. HDMI/DVI

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







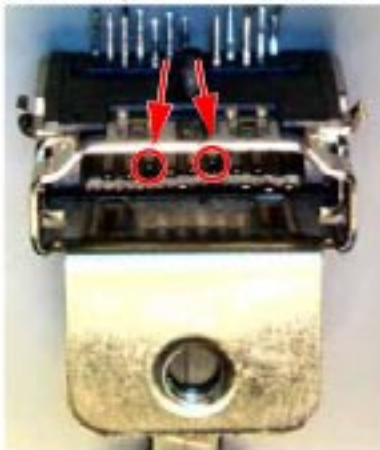


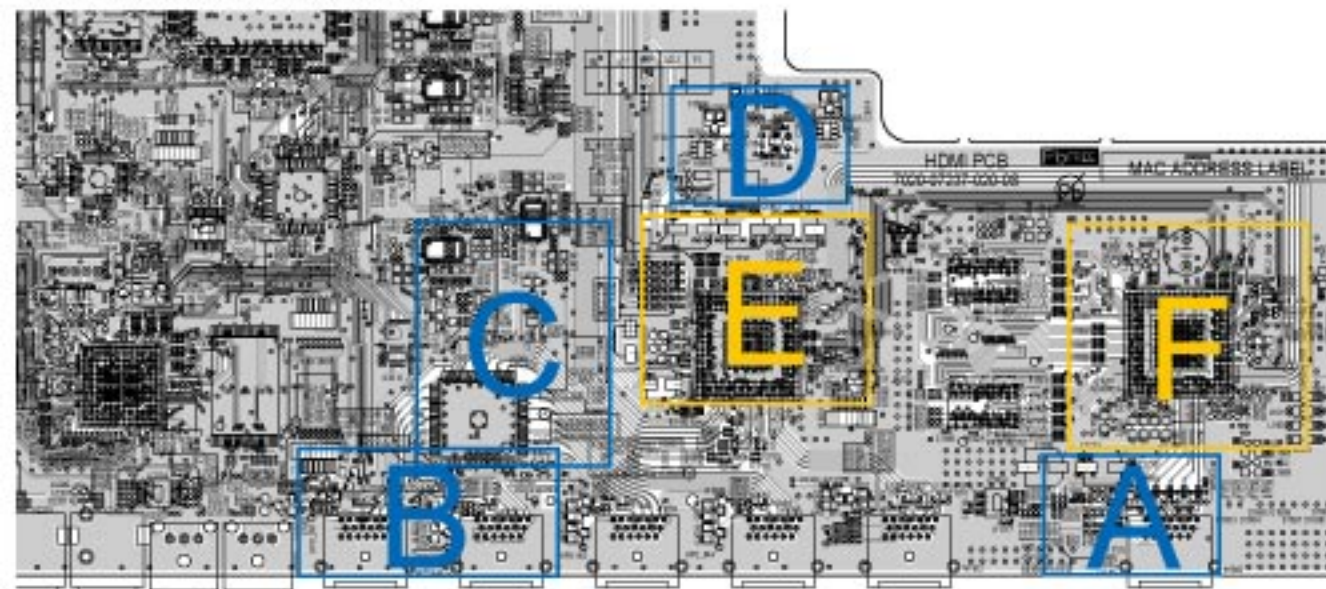
NO
The power supply circuitry is defective.

NO
The X1601 or U1601 is defective.

NO
The RESET circuitry or U1601 is defective.

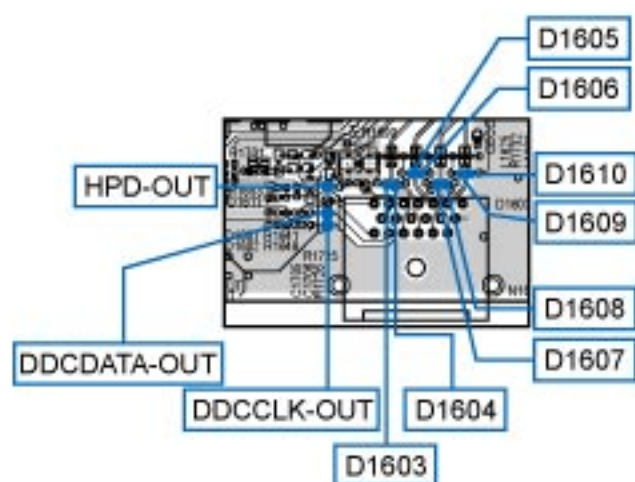
(*1) Abnormal sample of HDMI connector : The internal terminal has bent.



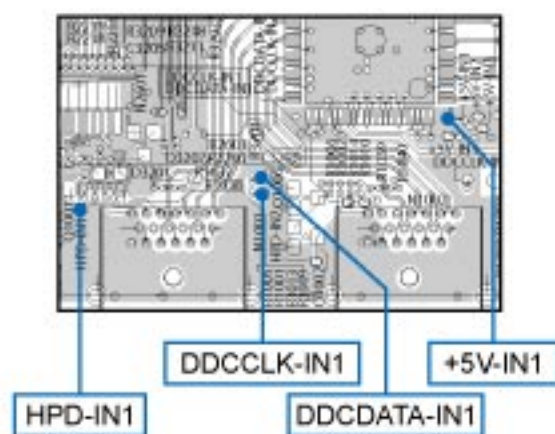


(COMPONENT SIDE)

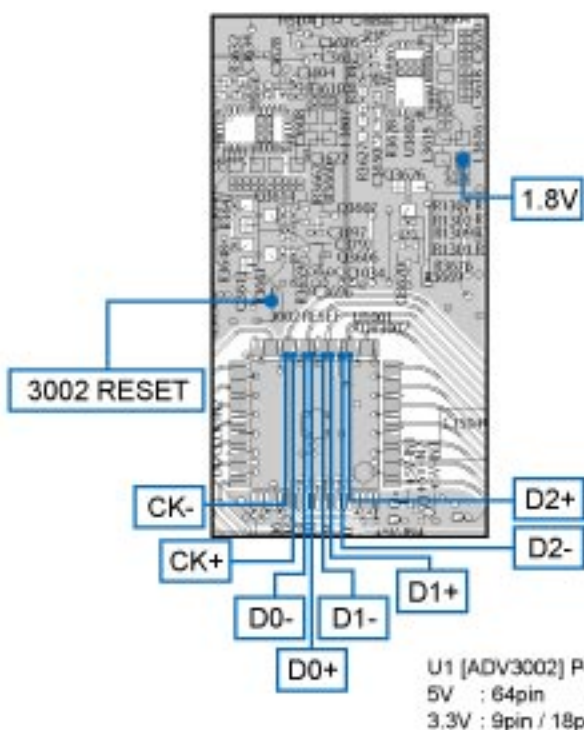
Detail A



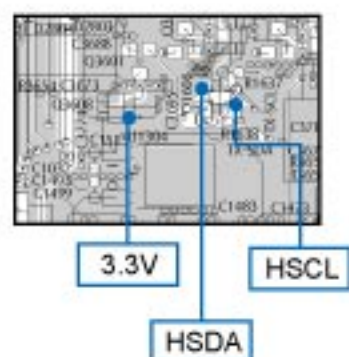
Detail B



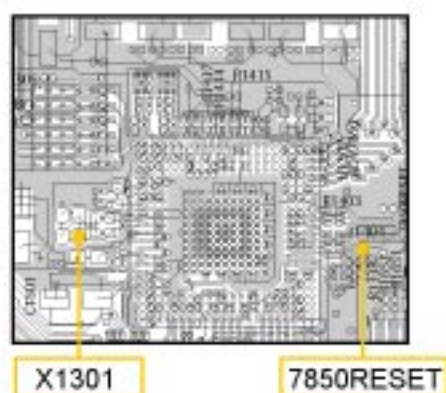
Detail C



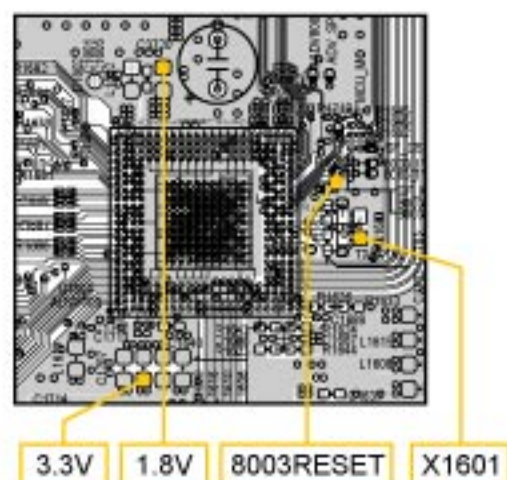
Detail D

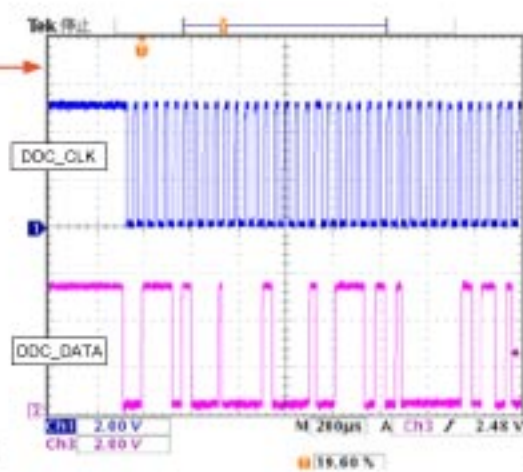
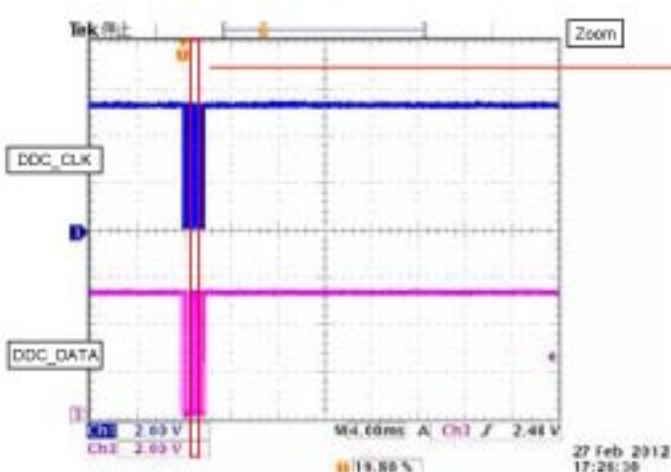
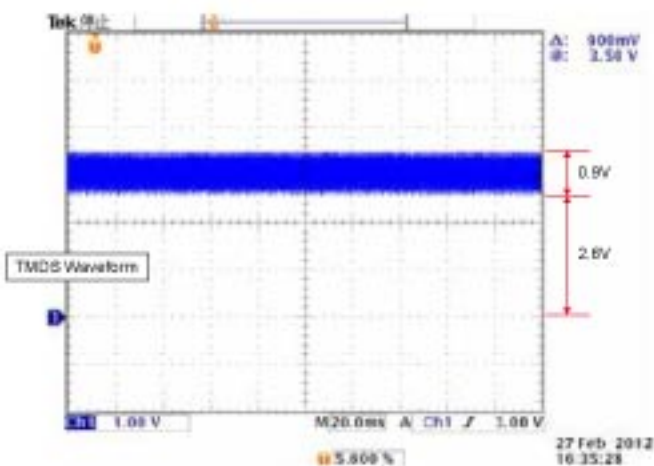


Detail E

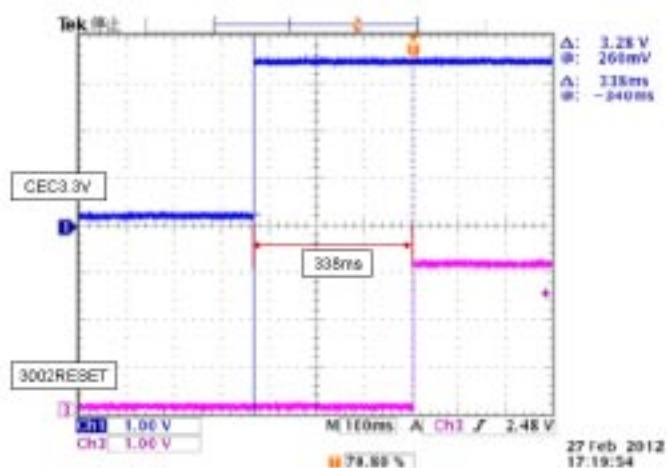


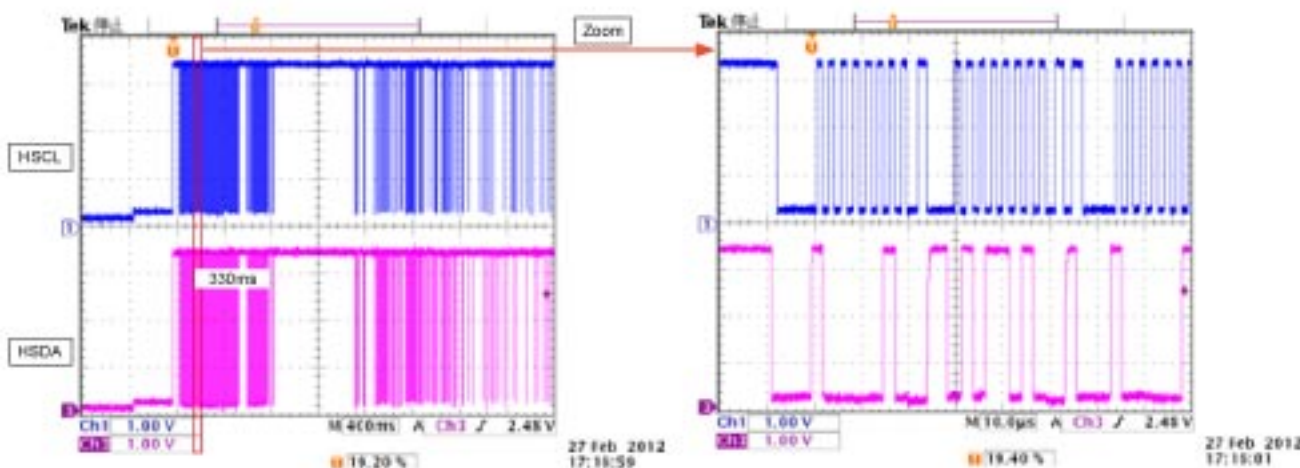
Detail F



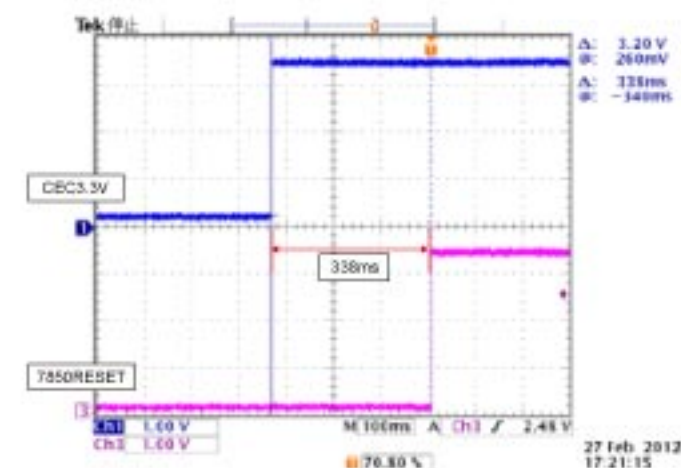


Timing waveform illustration from the start of CEC3.3V to when reset is released : Check items (22)

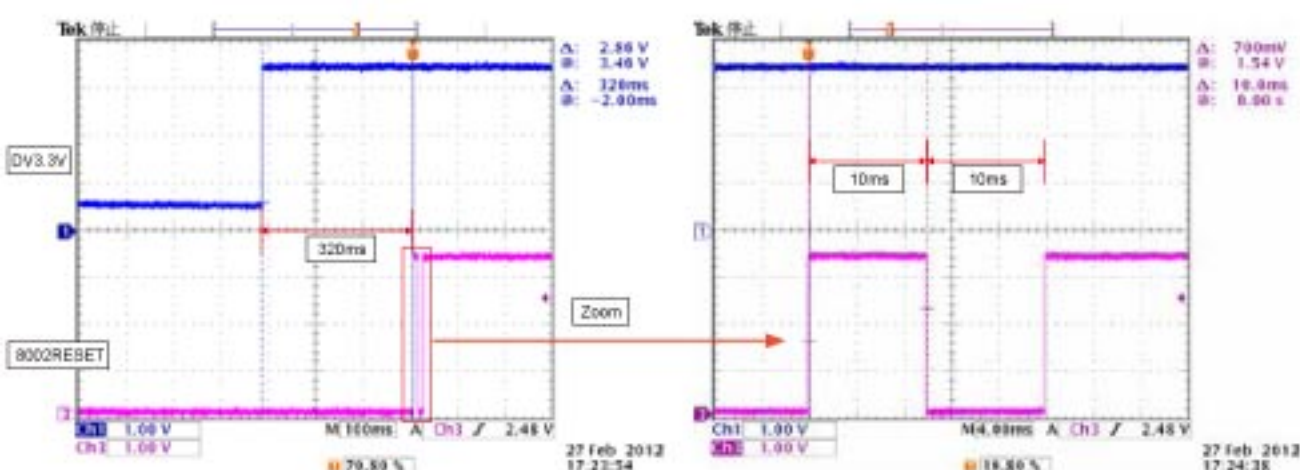




Timing waveform illustration from the start of CEC3.3V to when reset is released : Check items (27)

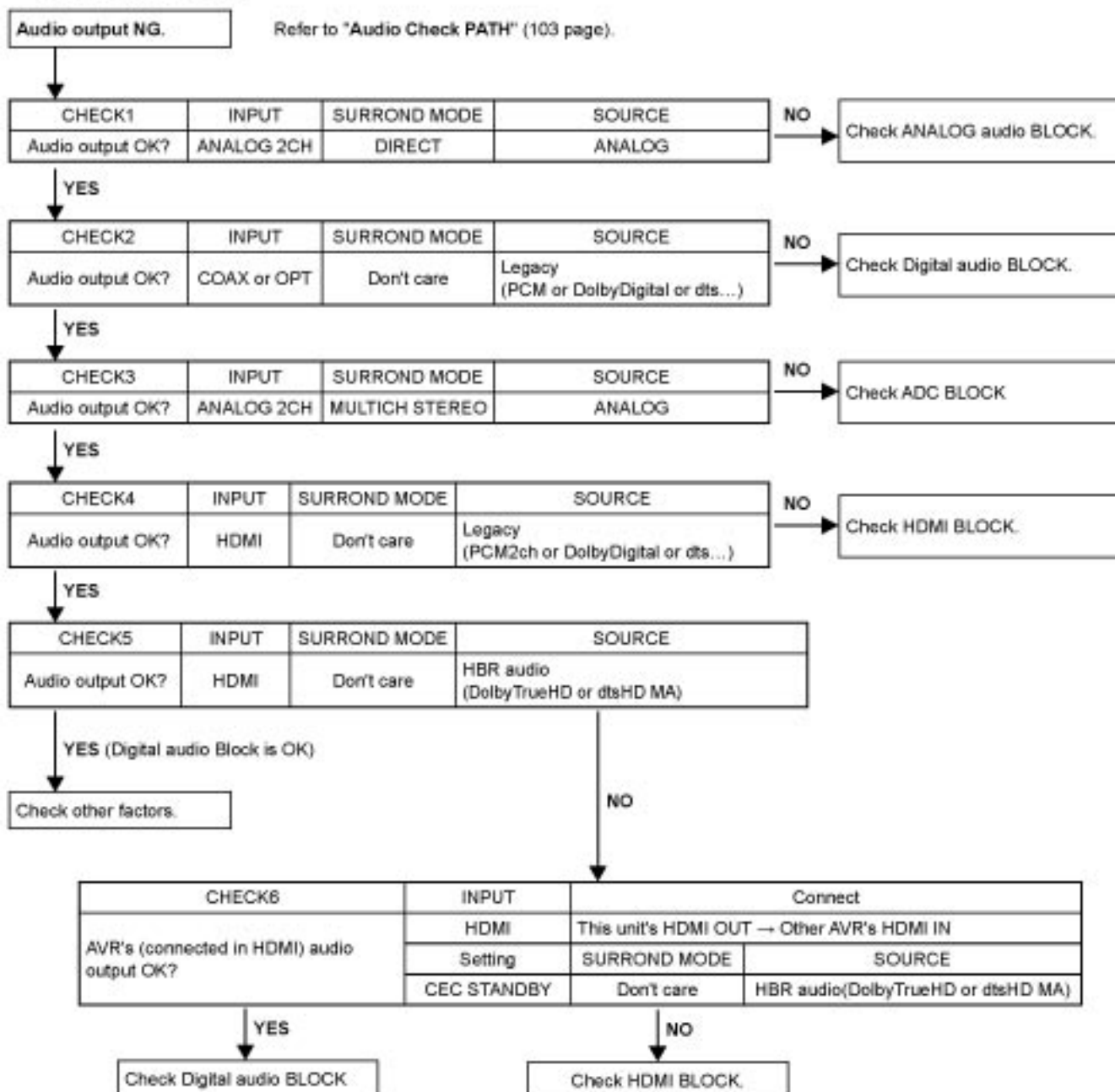


Timing waveform illustration from the start of CEC3.3V to when reset is released : Check items (30)

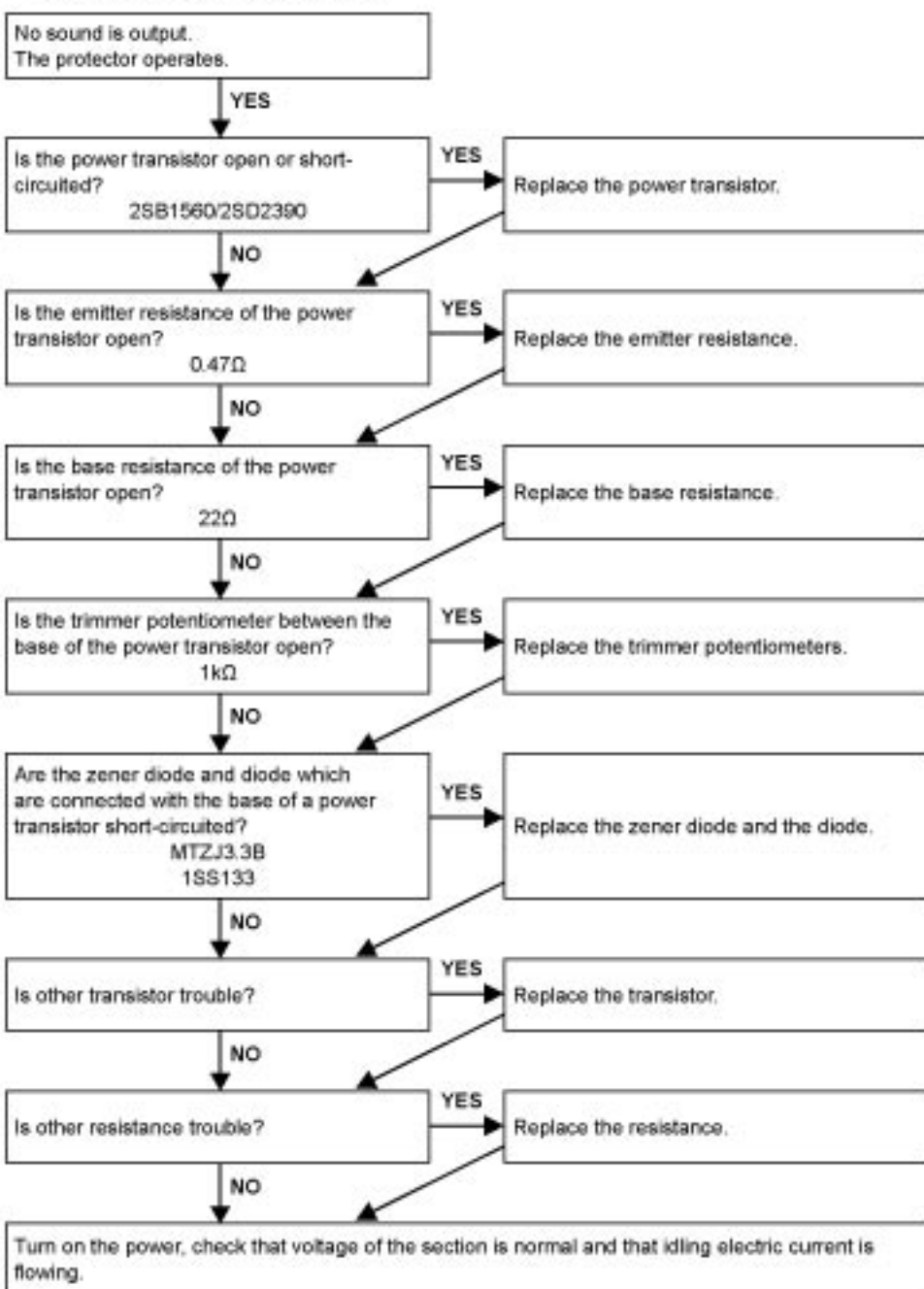


4. AUDIO

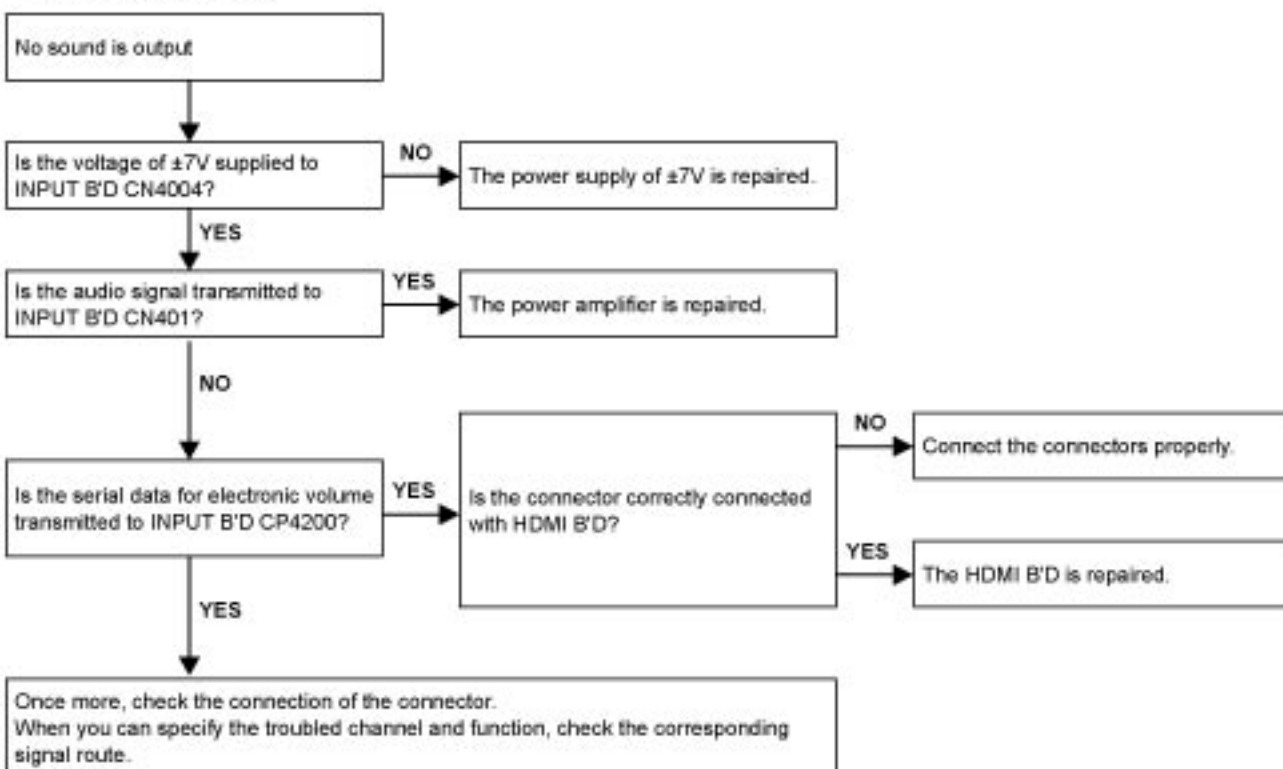
4.1. AUDIO CHECK



4.2. Power AMP (AMP UNIT)

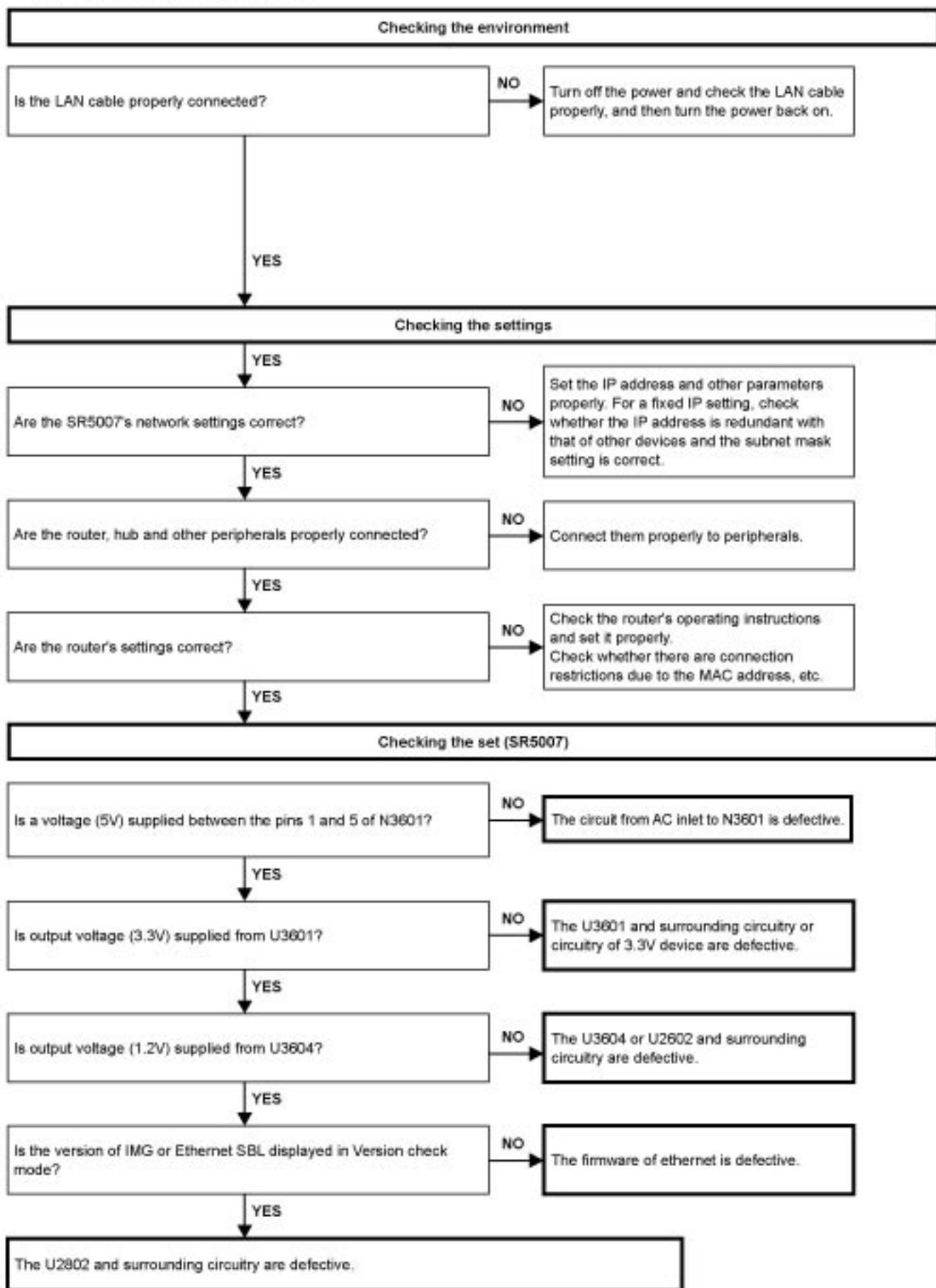


4.3. Analog audio

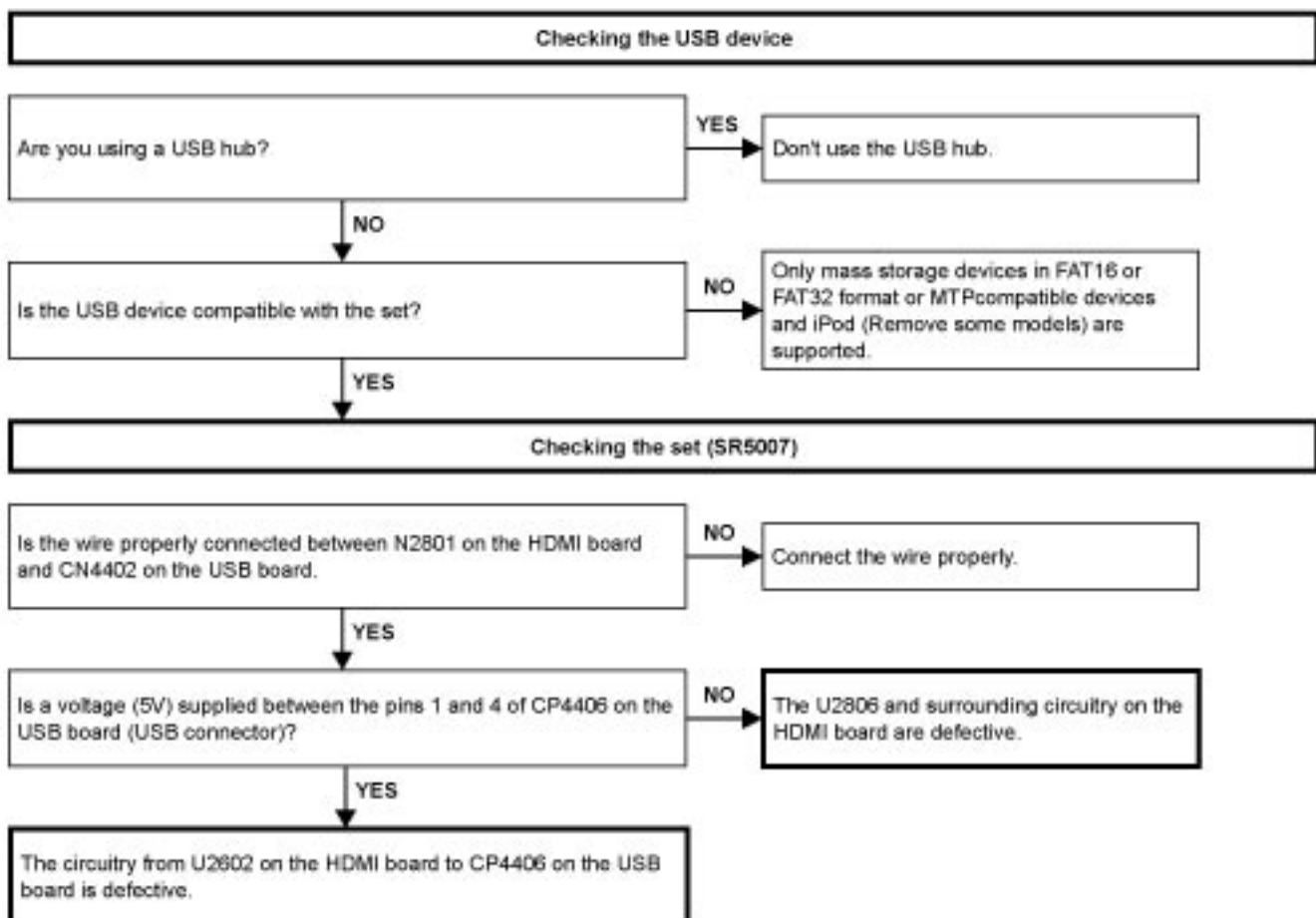


5. Network/USB

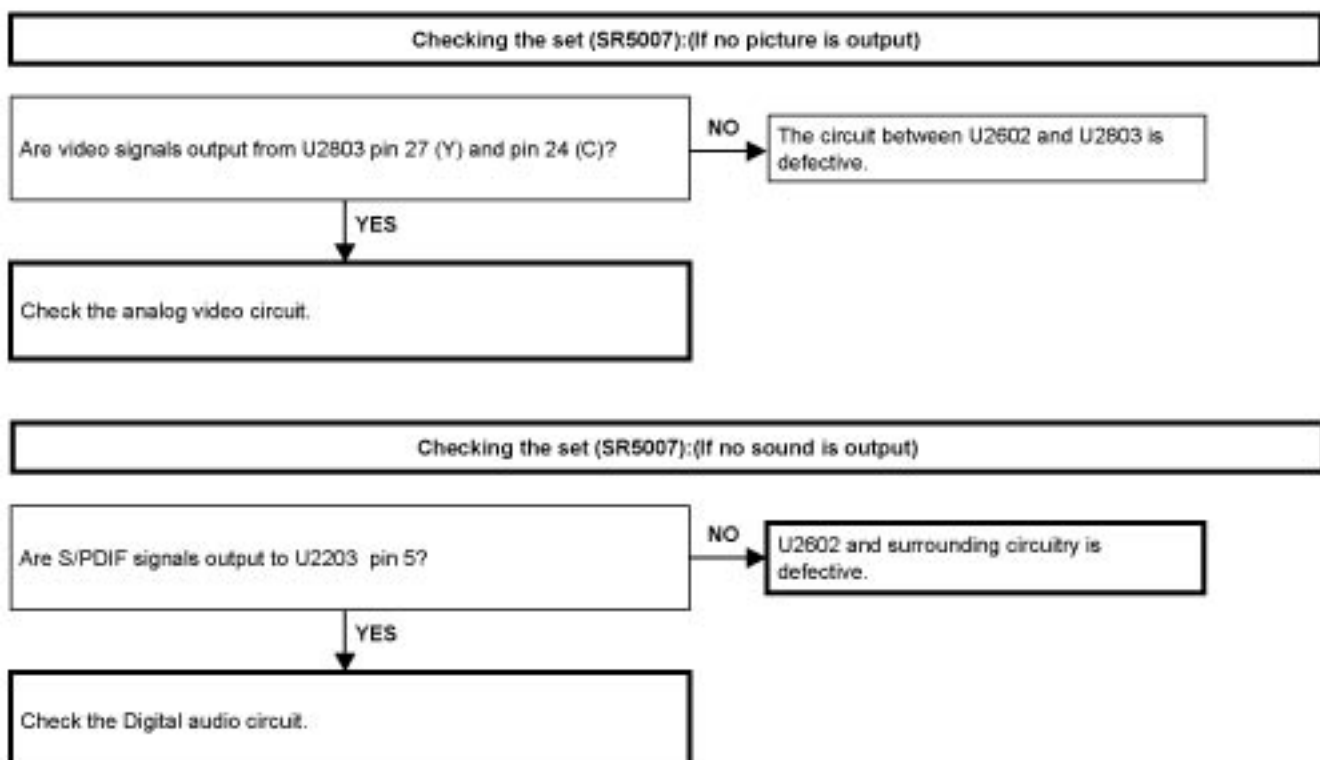
5.1. Cannot connect to network



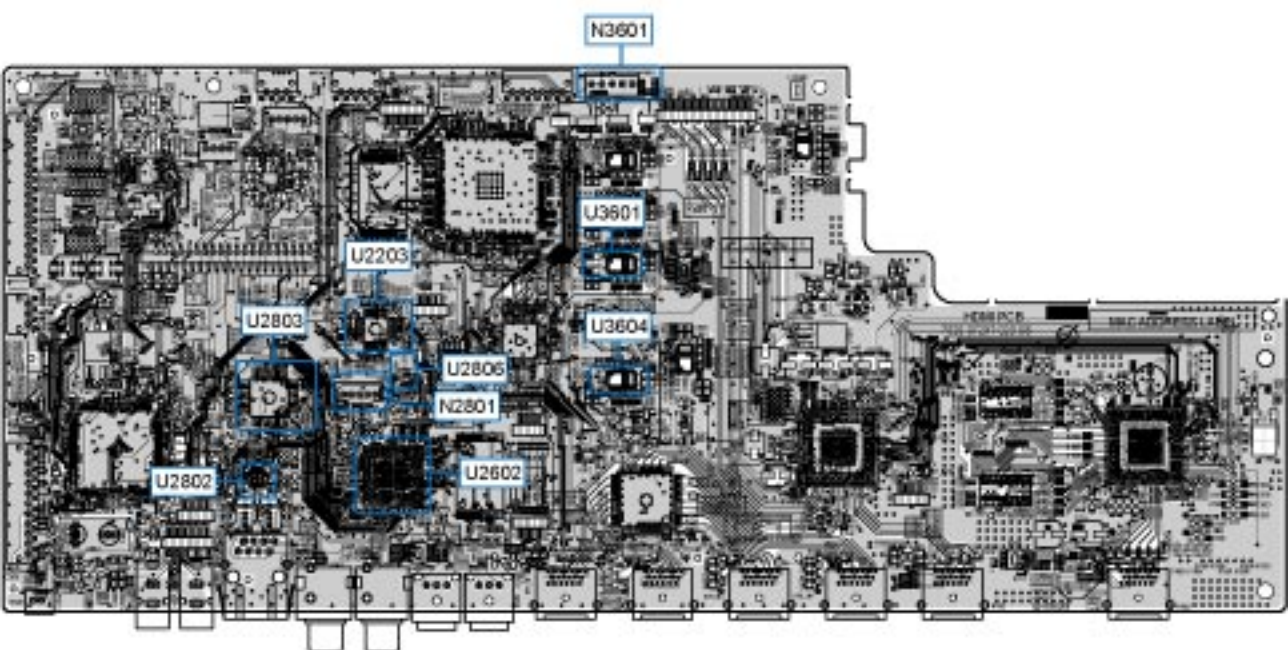
5.2. USB device is not recognized



5.3. No picture or no sound is output

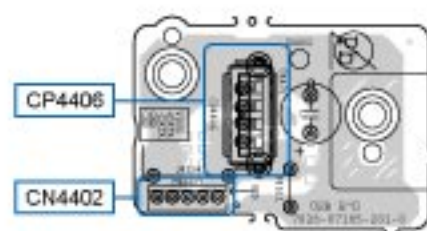


HDMI test point



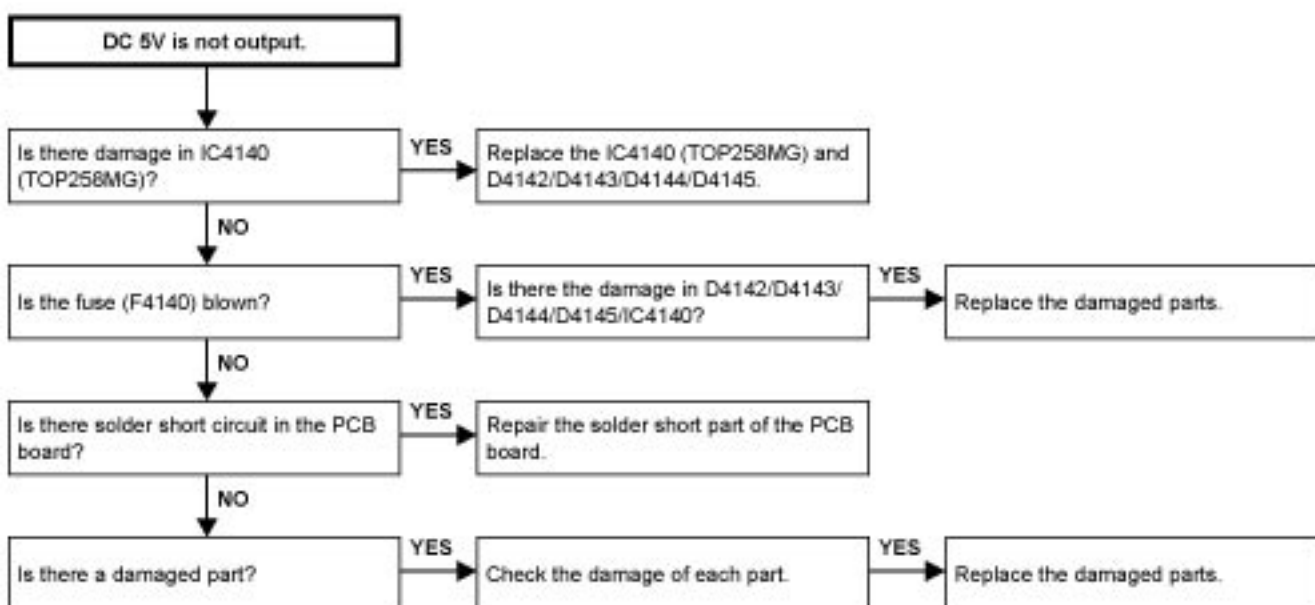
(COMPONENT SIDE)

USB test point

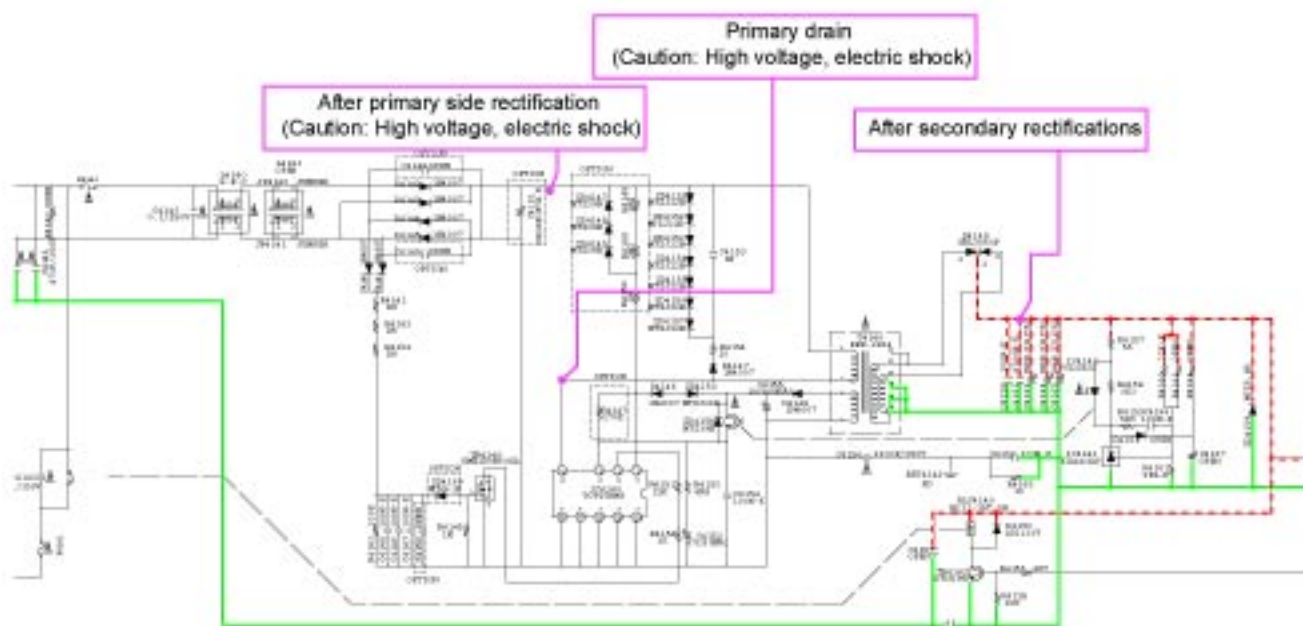


(COMPONENT SIDE)

6. SMPS



SMPS B'D

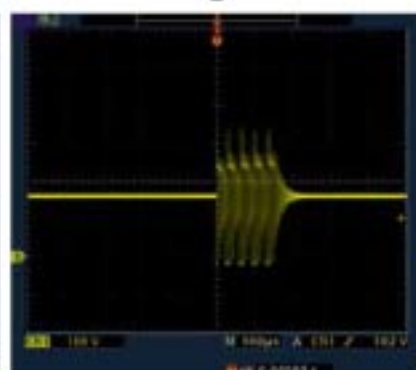


SMPS unit
(Unloaded)

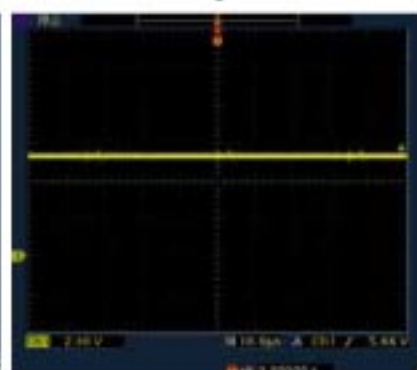
A



B

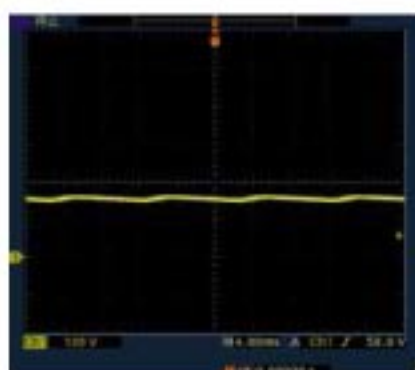


C



Set

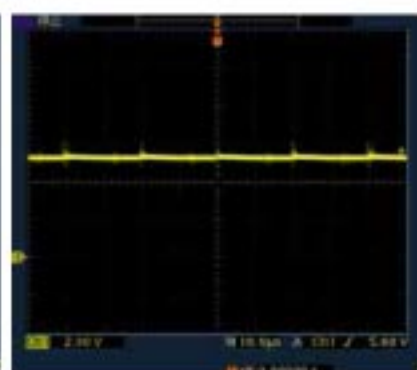
A



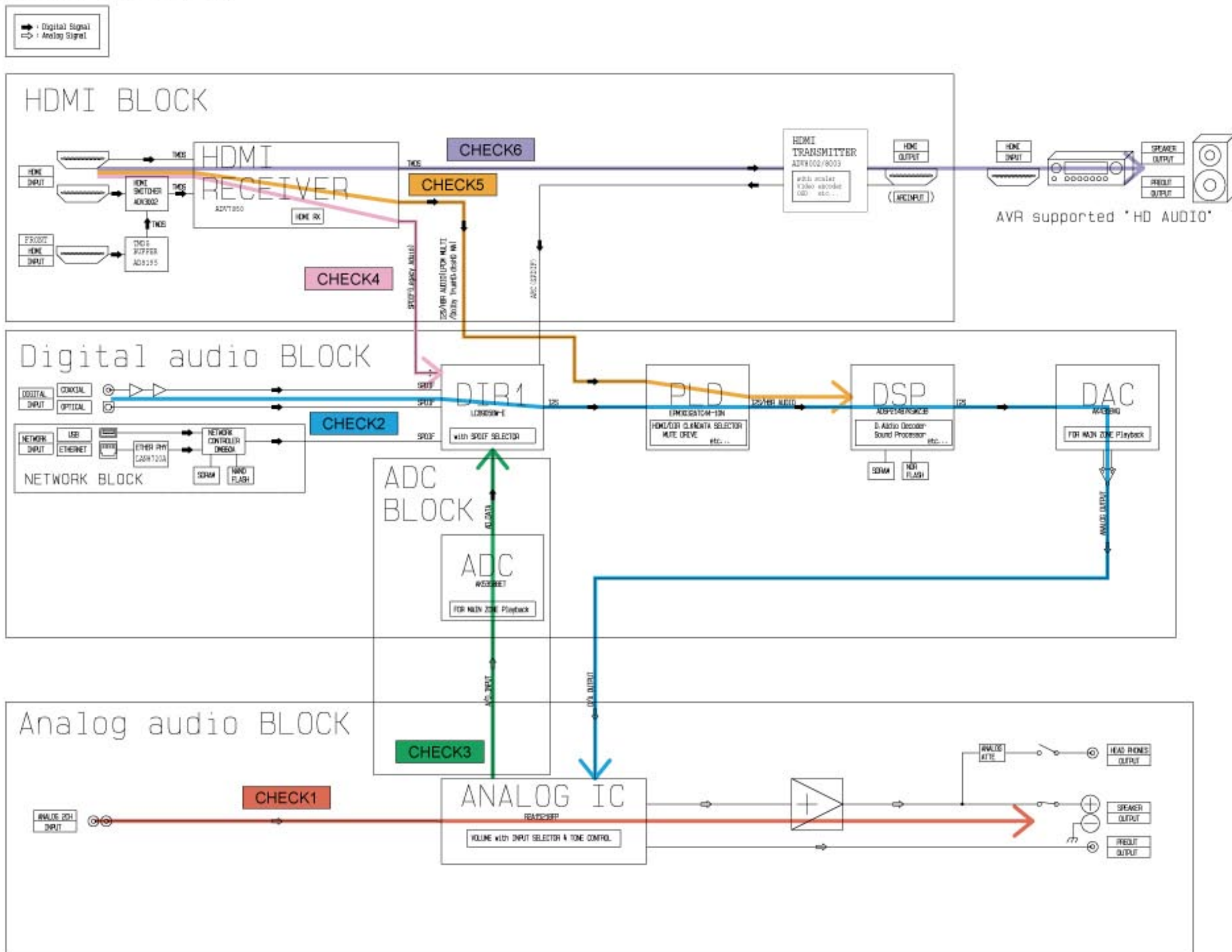
B



C

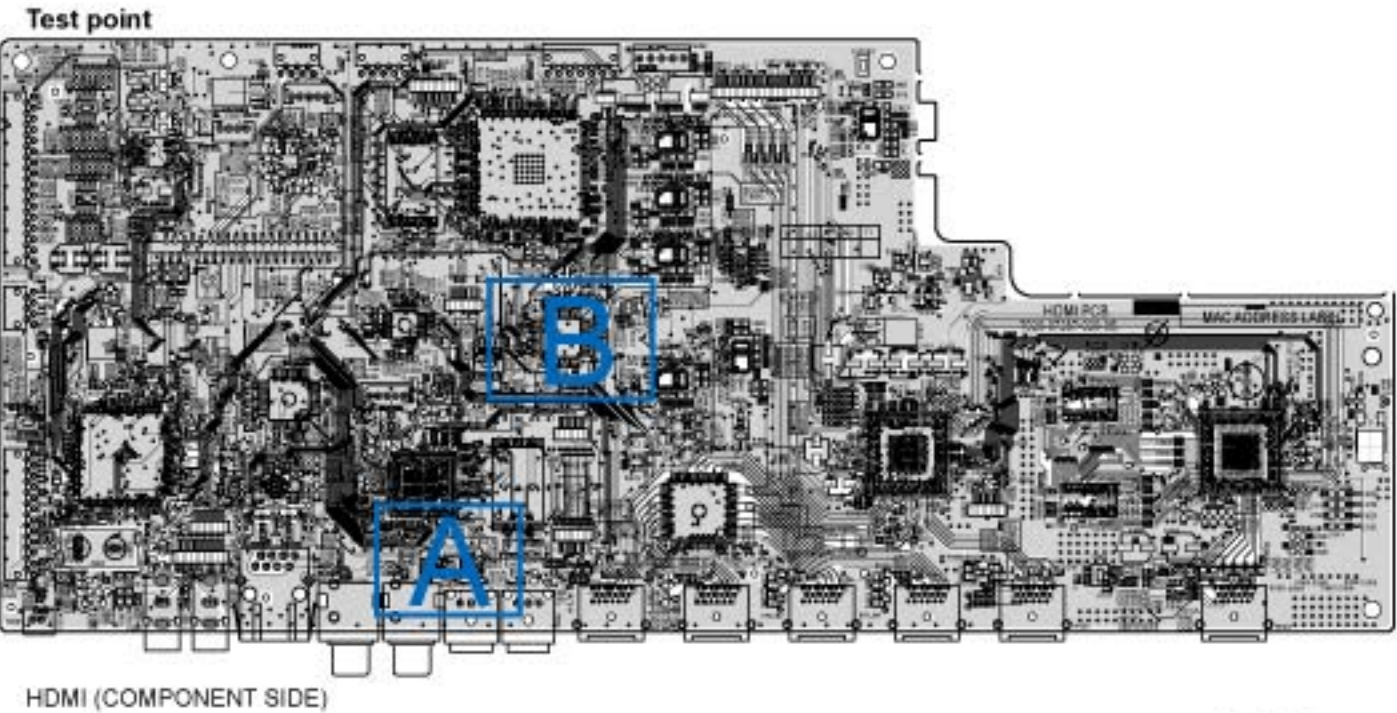
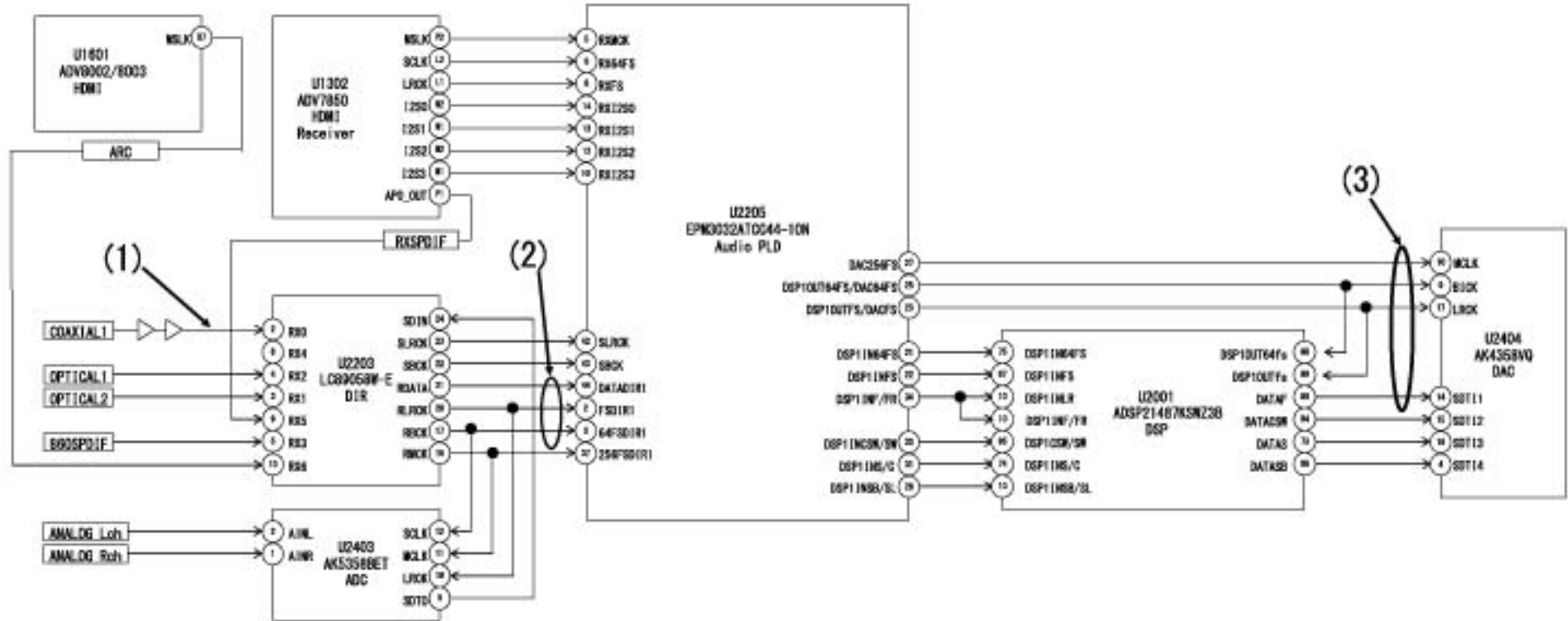
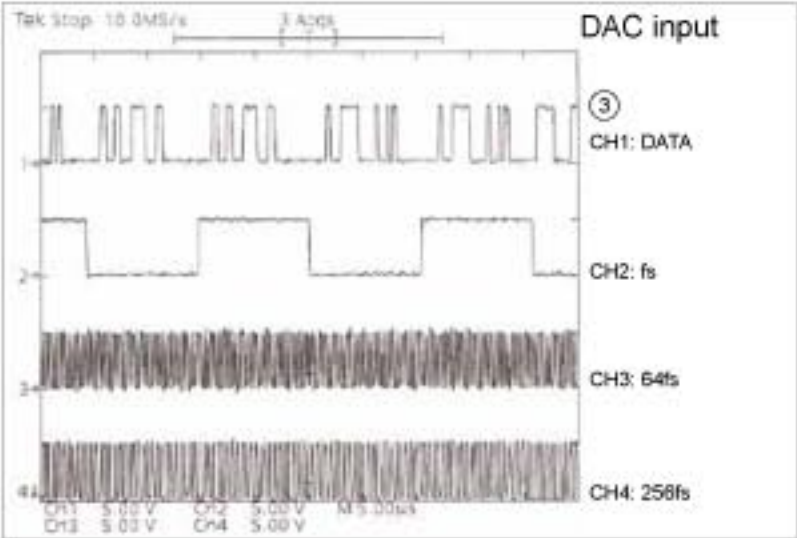
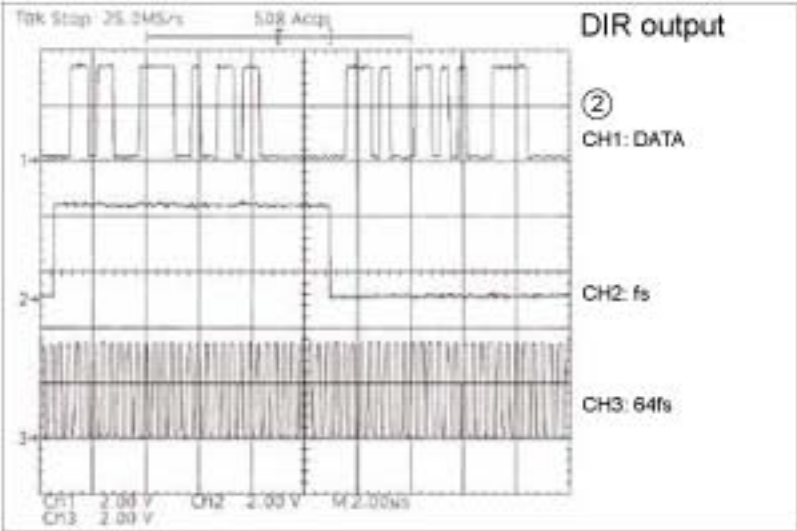
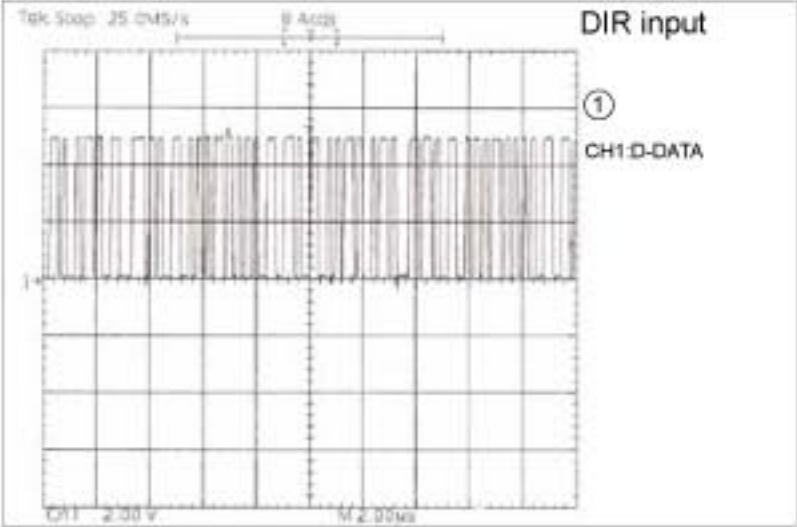


Personal notes:

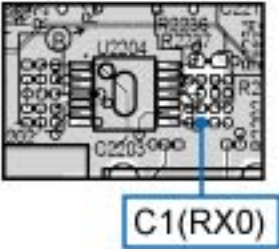


CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

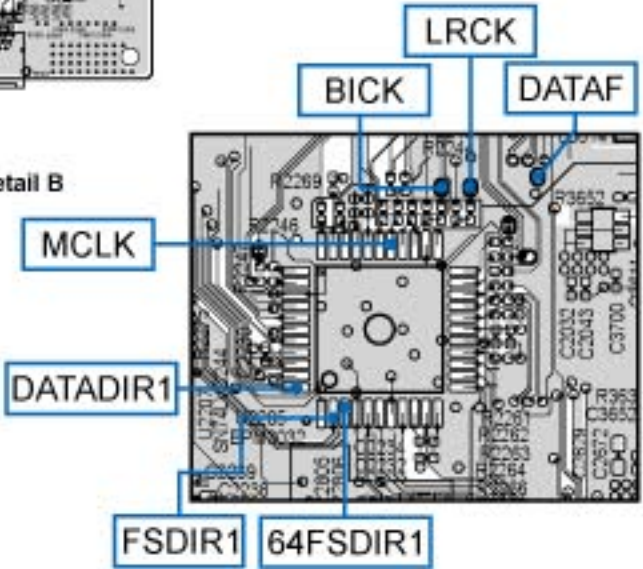
WAVE FORM



Detail A

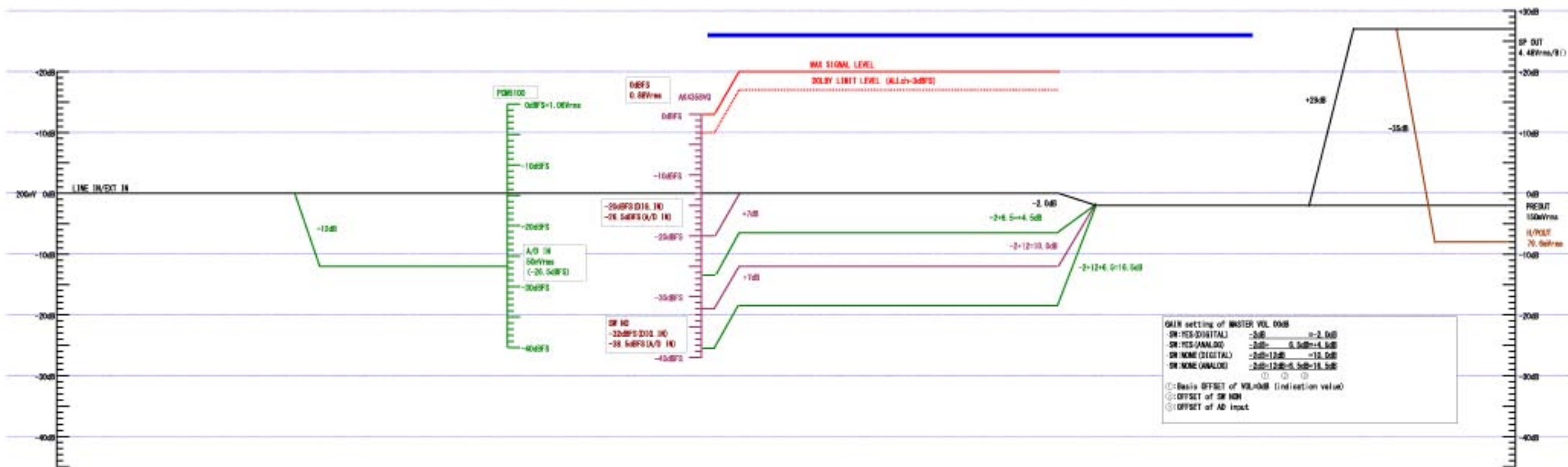
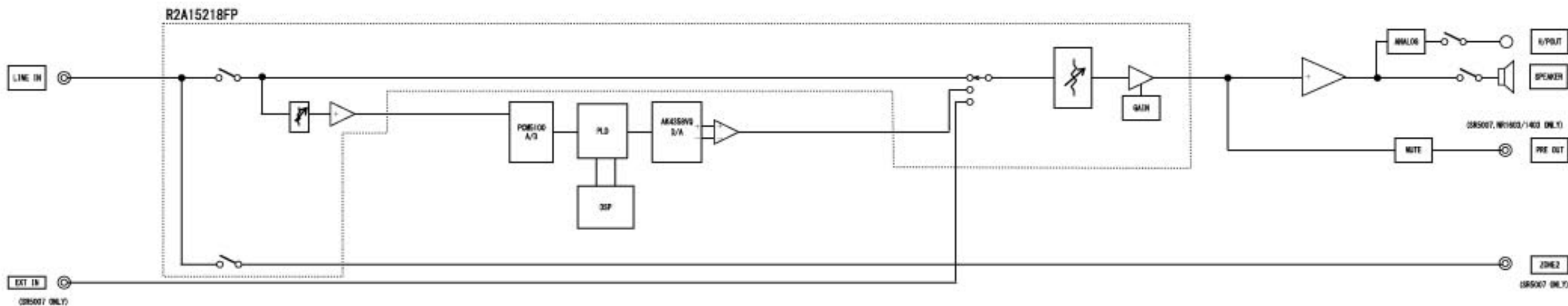


Detail B

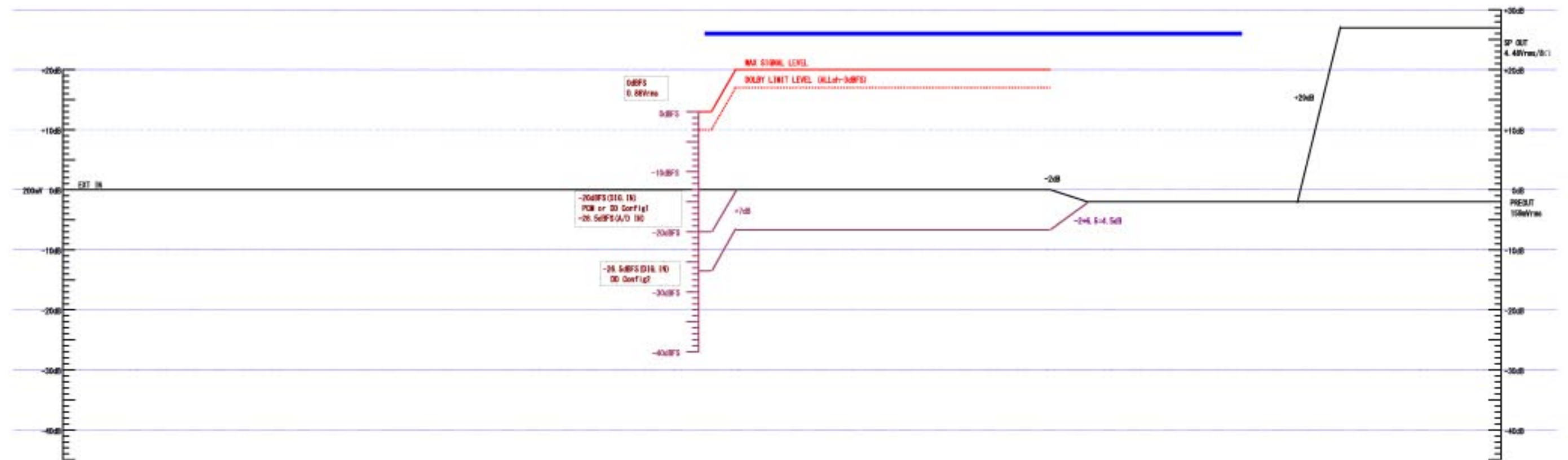
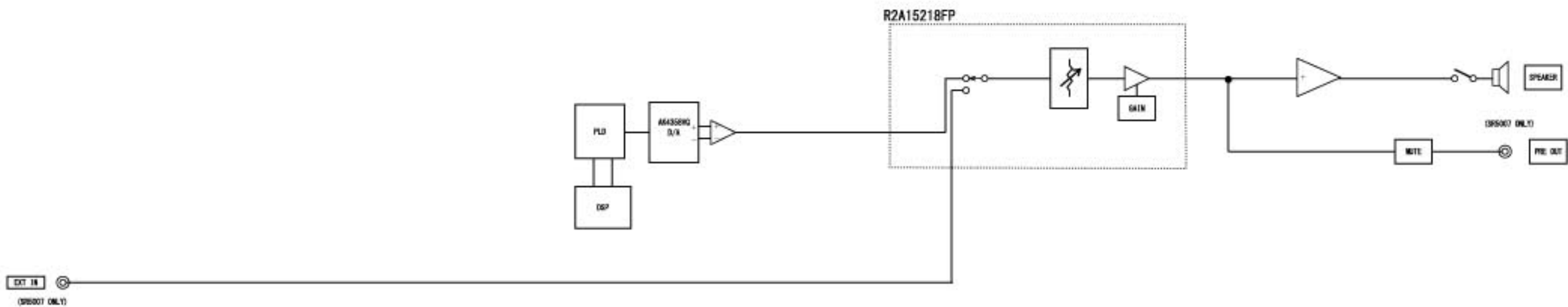


LEVEL DIAGRAM

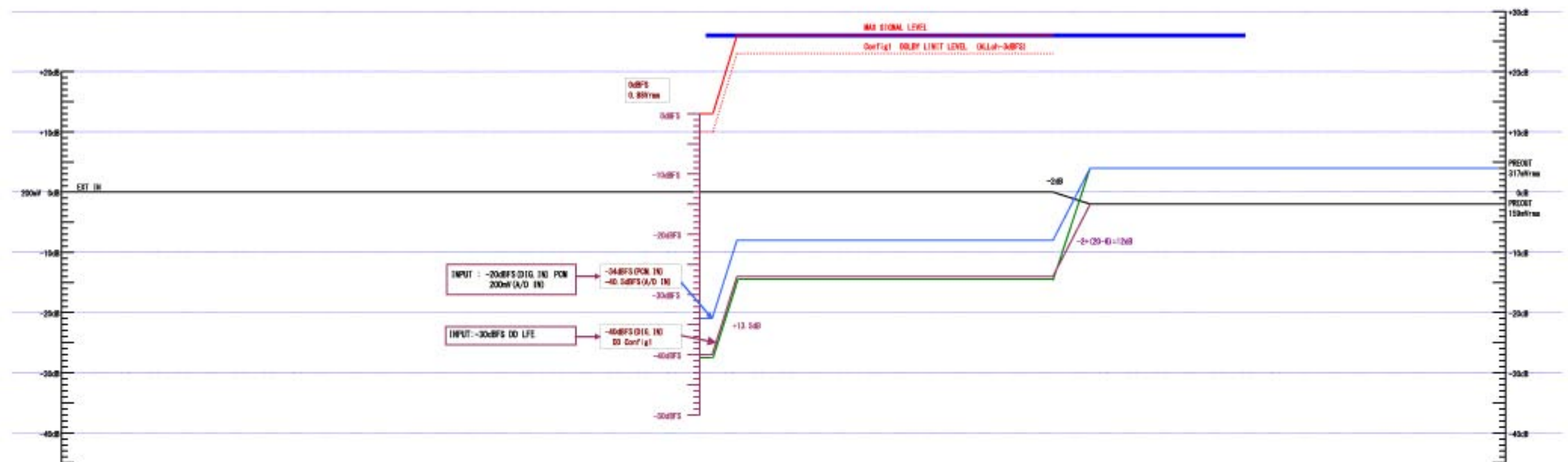
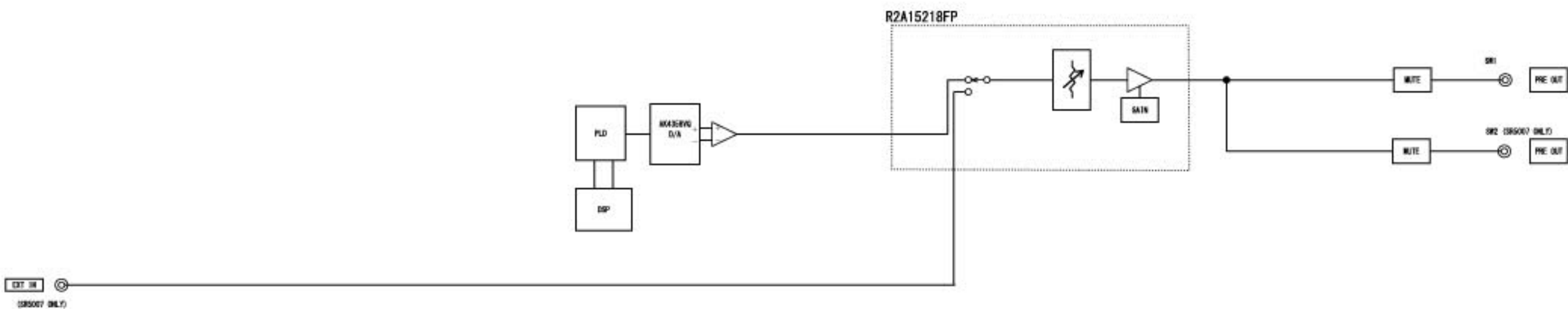
LEVEL DIAGRAM
FRONT ch



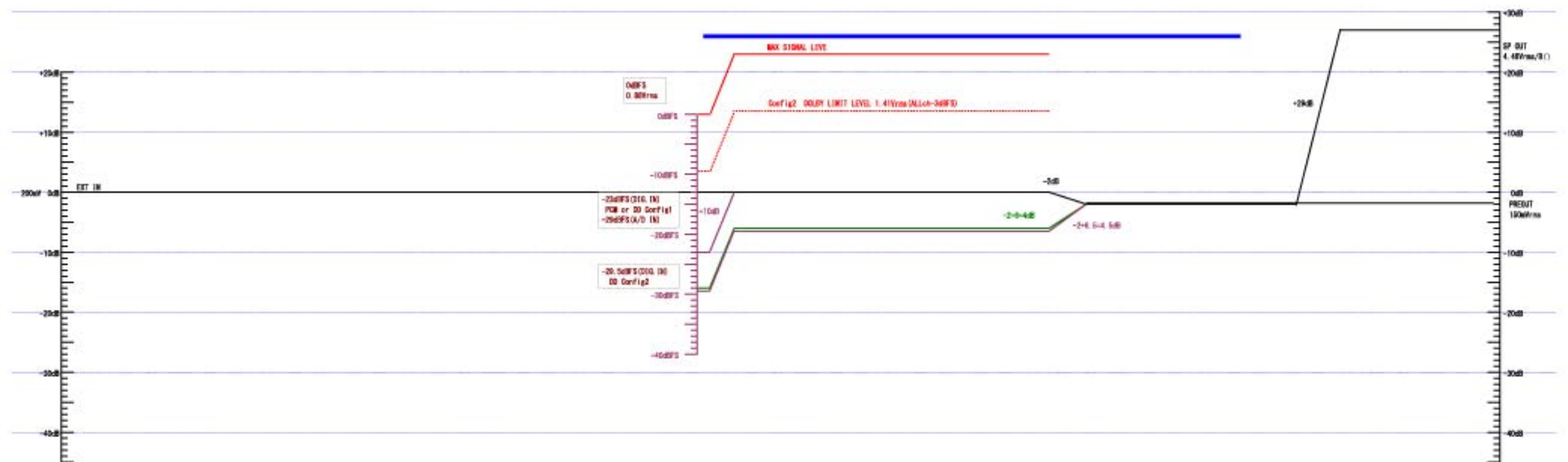
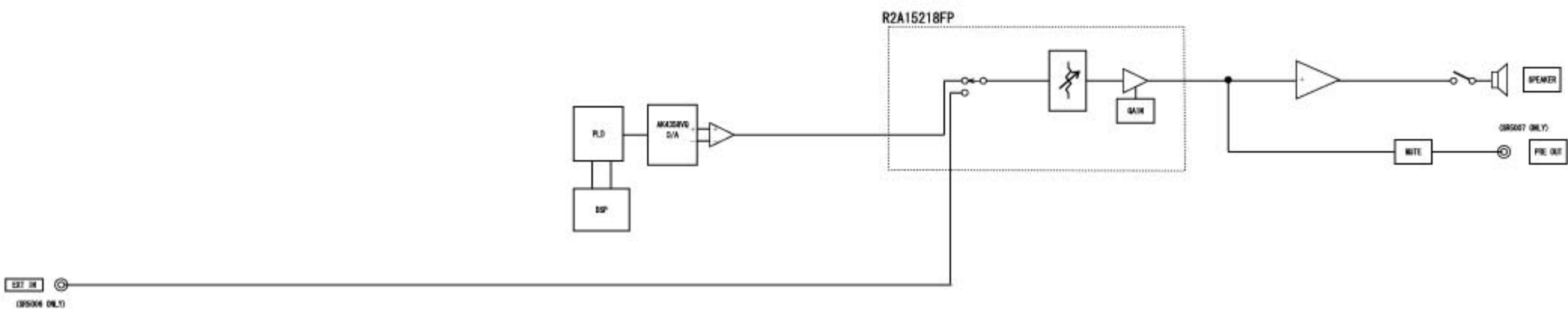
LEVEL DIAGRAM CENTER.ch



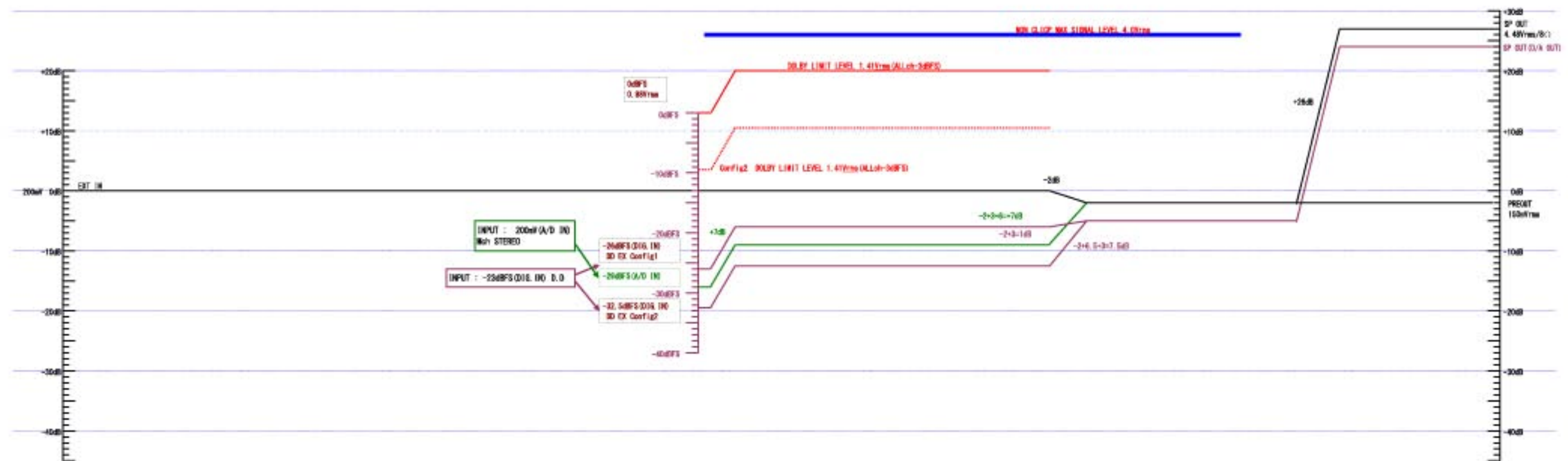
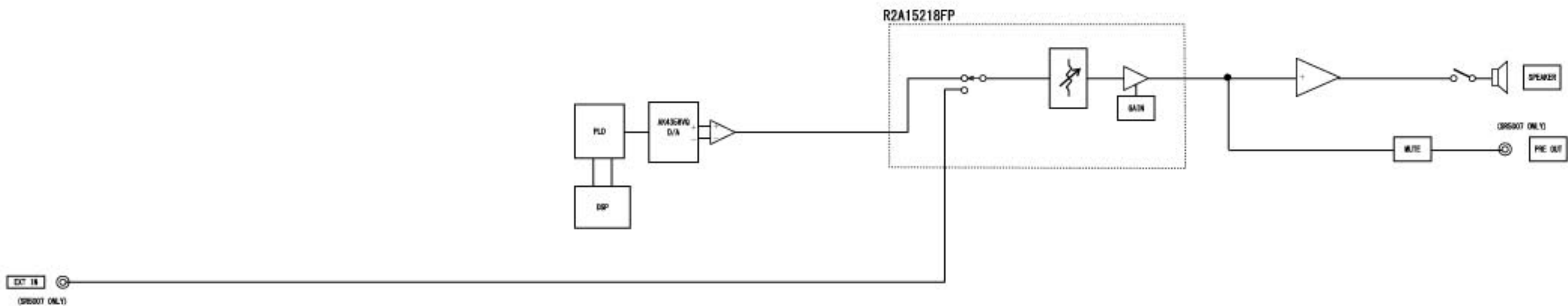
LEVEL DIAGRAM SUBWOOFER ch



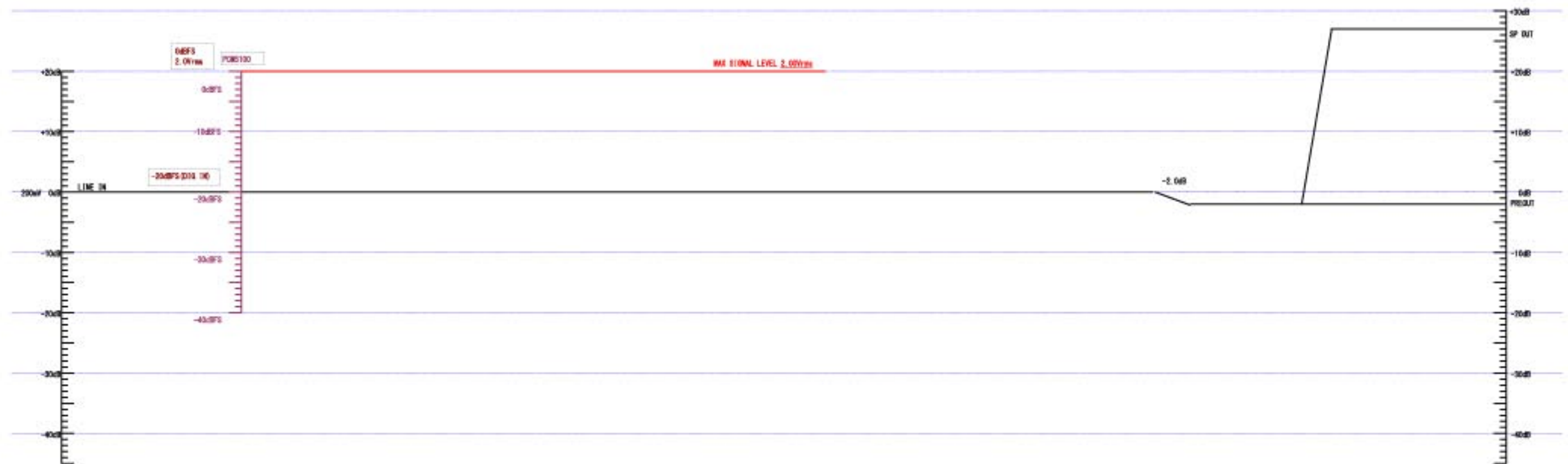
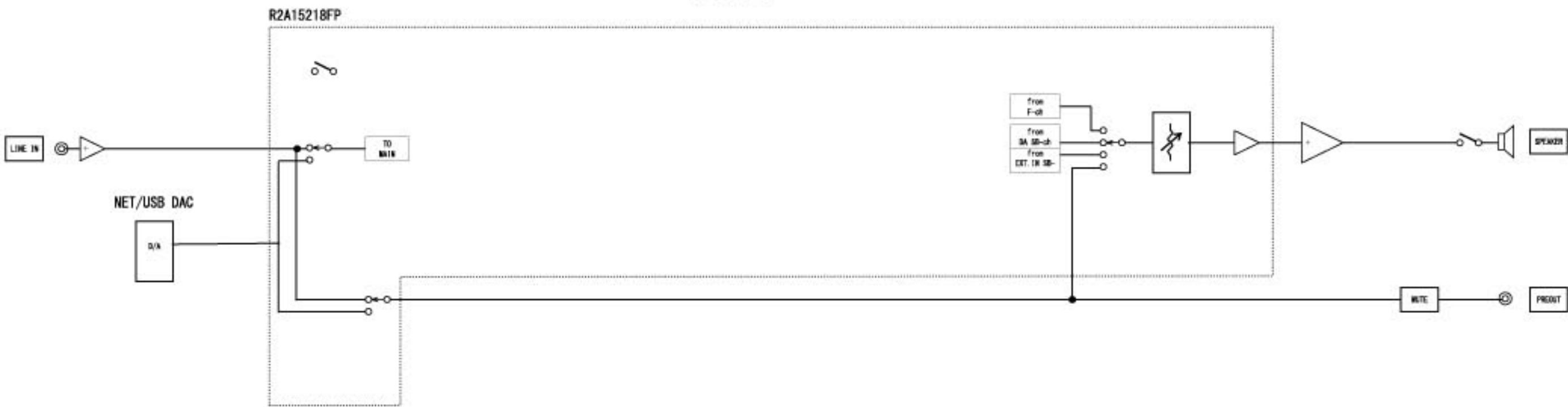
LEVEL DIAGRAM
SURROUND ch



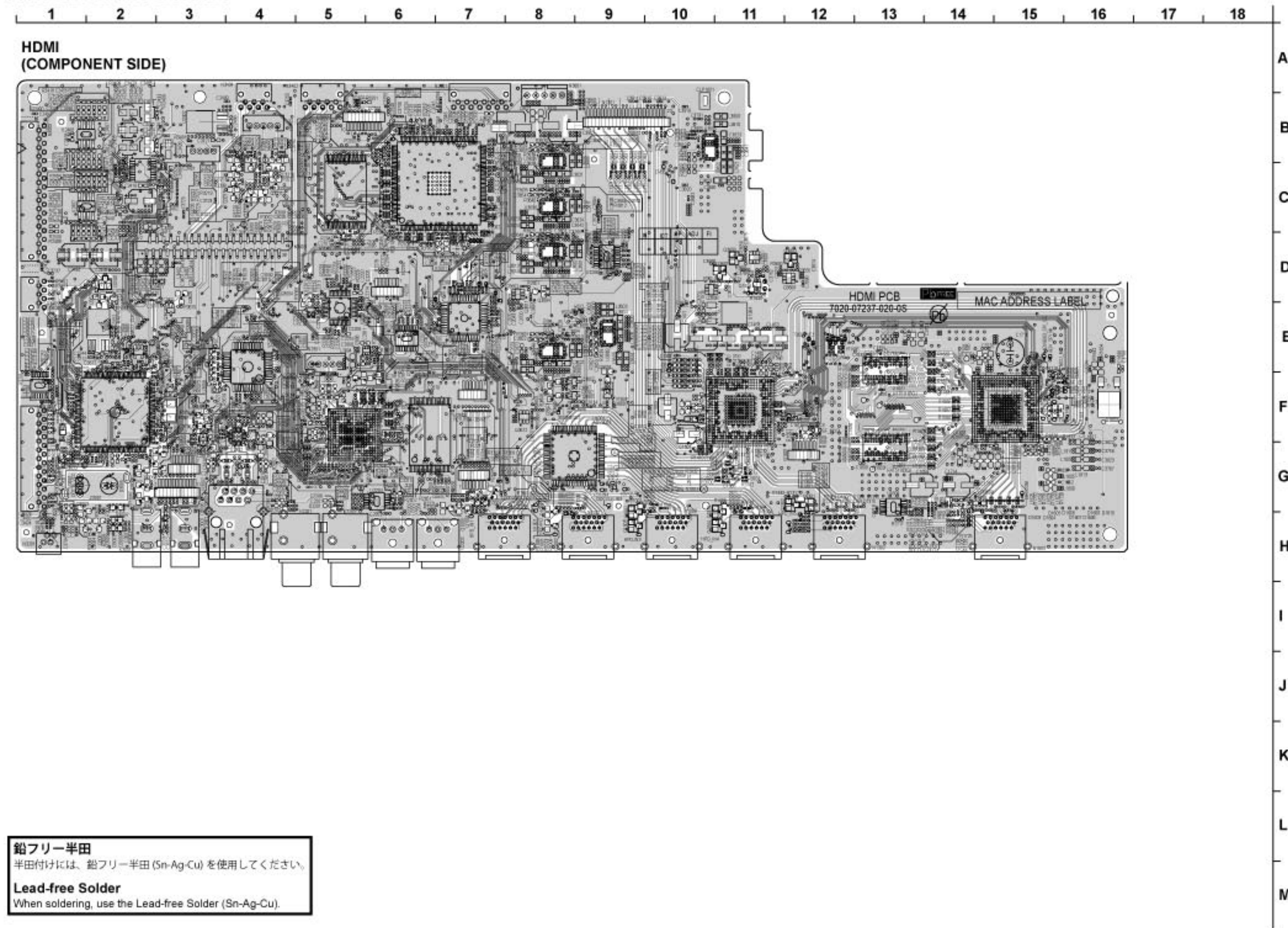
LEVEL DIAGRAM SURR.BACK ch



LEVEL DIAGRAM ZONE 2

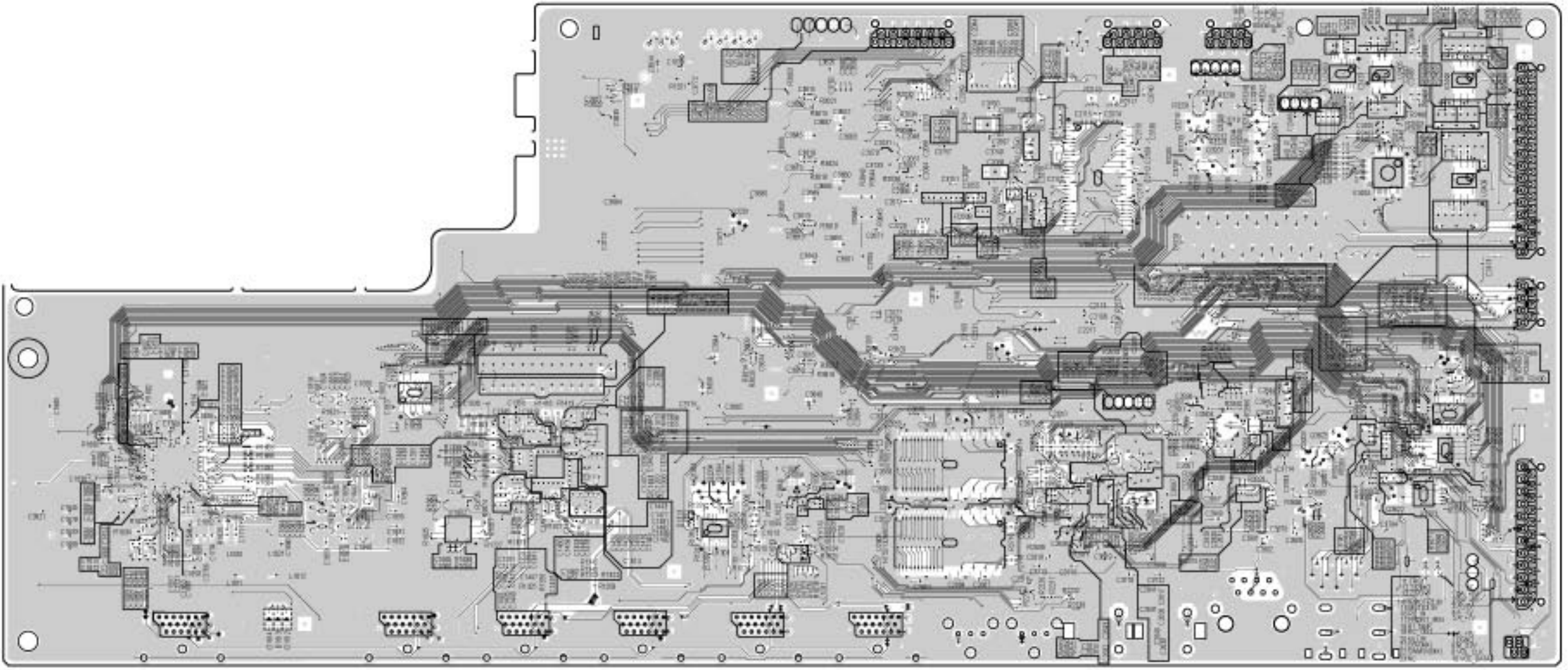


PRINTED WIRING BOARDS



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

HDMI
(FOIL SIDE)

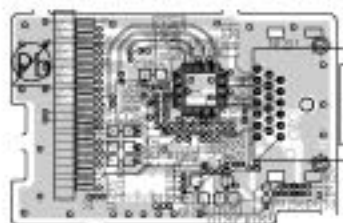


A
B
C
D
E
F
G
H
I
J
K
L
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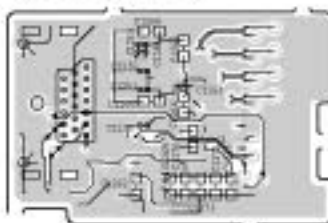
鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

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

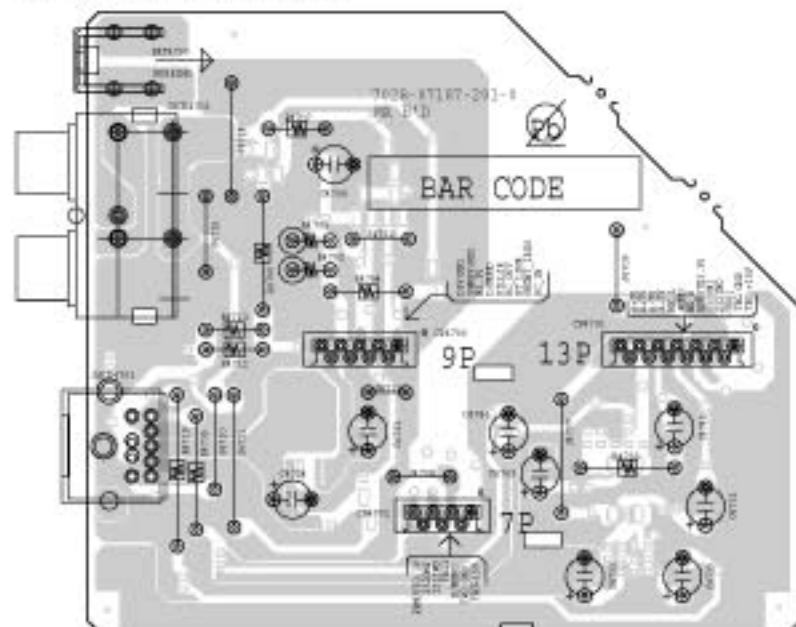
**FRONT HDMI
(COMPONENT SIDE)**



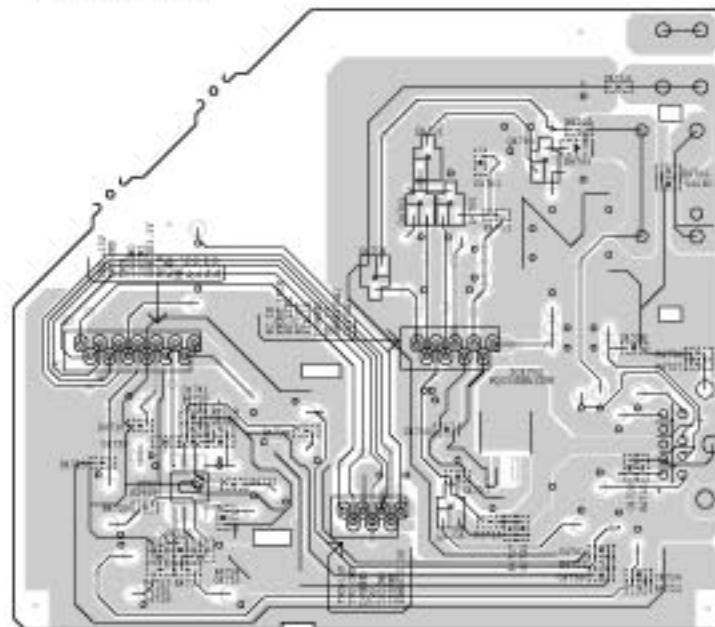
**FRONT HDMI
(FOIL SIDE)**



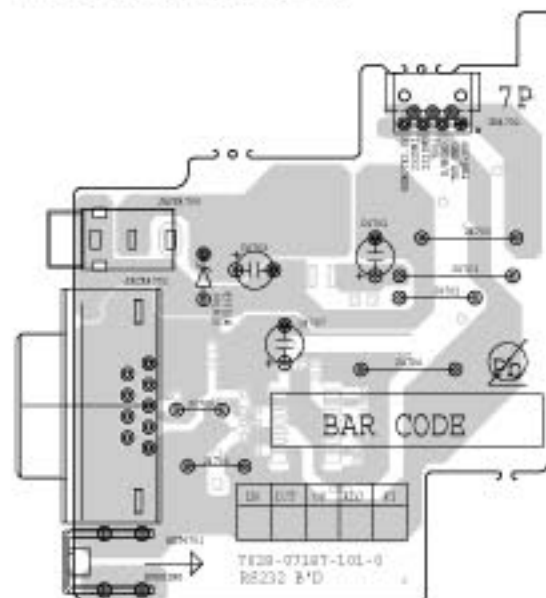
OPTIONAL CIRCUIT (COMPONENT SIDE)



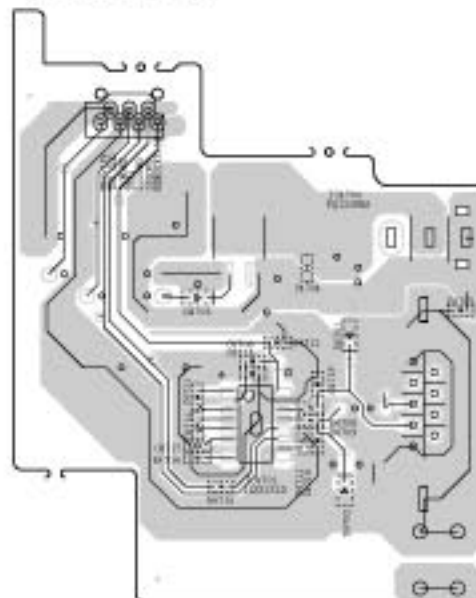
OPTIONAL CIRCUIT (FOIL SIDE)



RS232
(COMPONENT SIDE)



**RS232
(FOIL SIDE)**

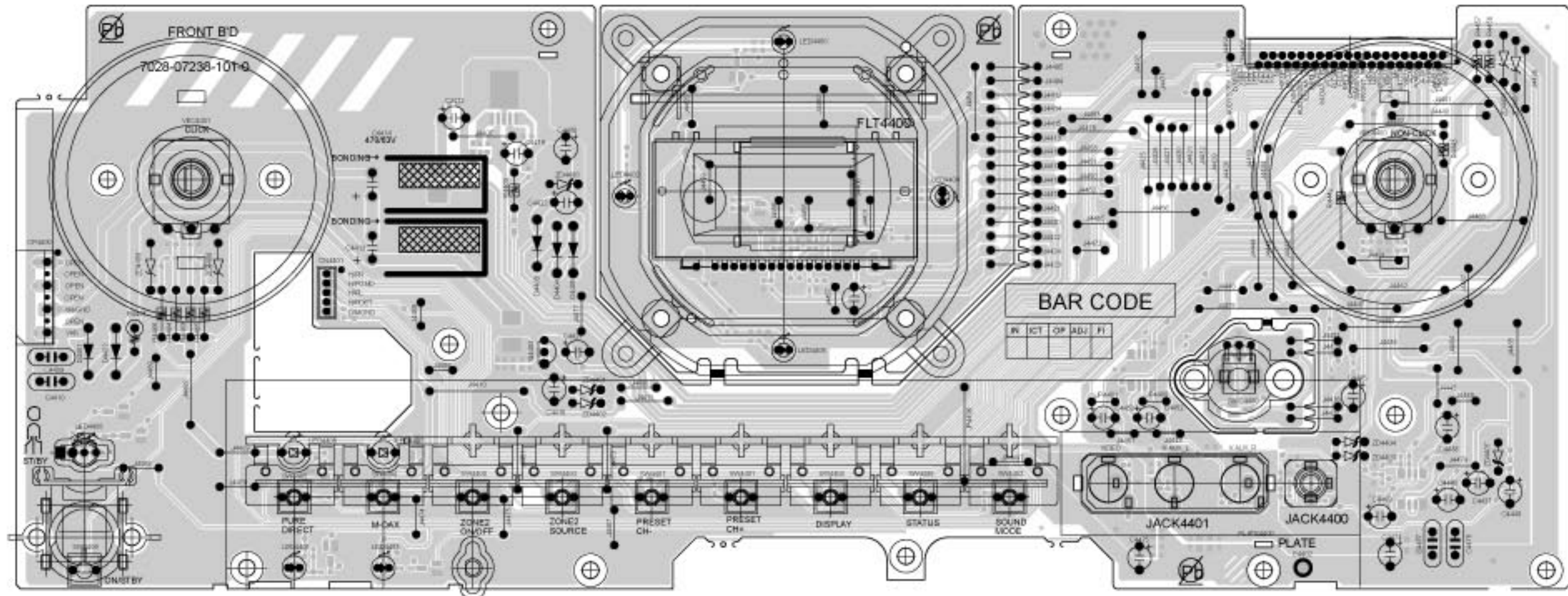


鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

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

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

**FRONT
(COMPONENT SIDE)**



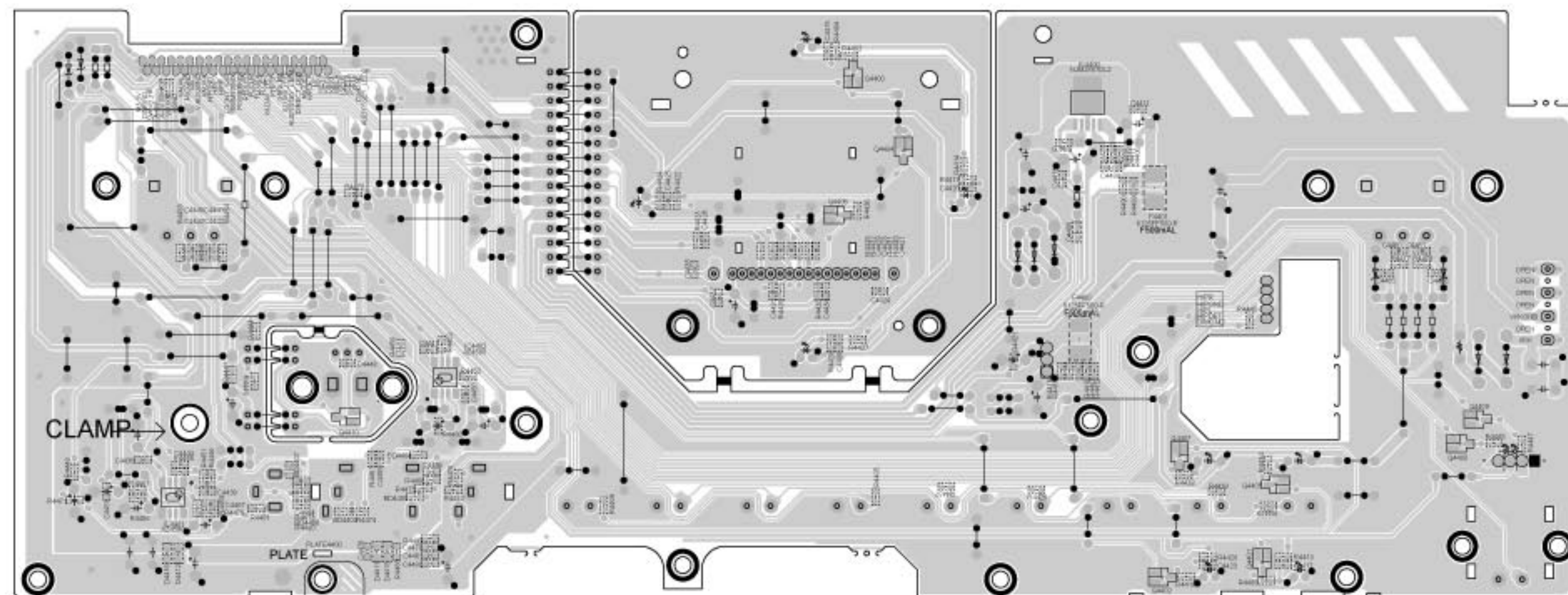
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鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

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

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

FRONT
(FOIL SIDE)

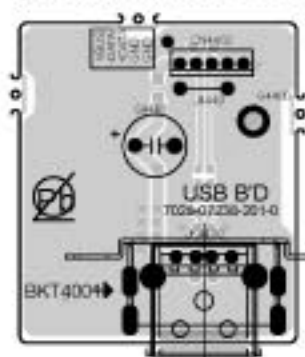


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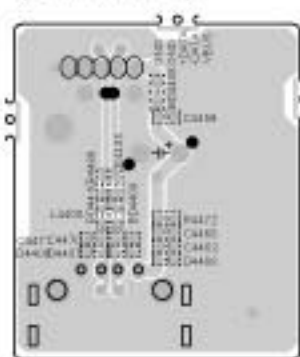
鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

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

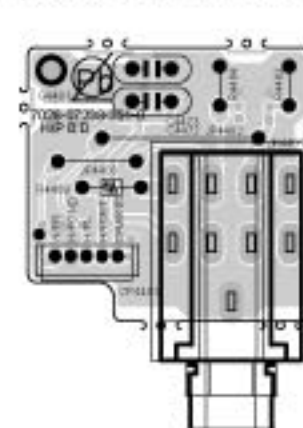
**USB
(COMPONENT SIDE)**



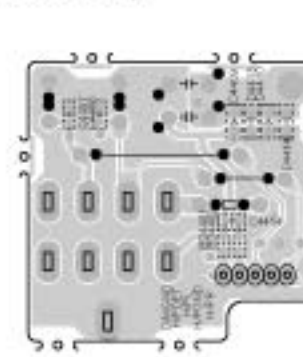
**USB
(FOIL SIDE)**



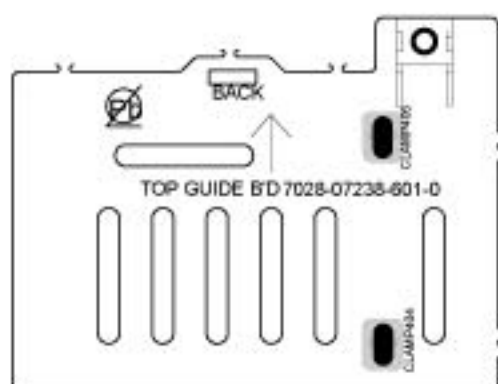
H/P
(COMPONENT SIDE)



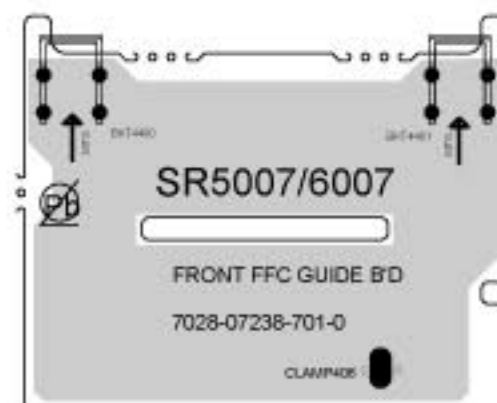
H/P
(FOIL SIDE)



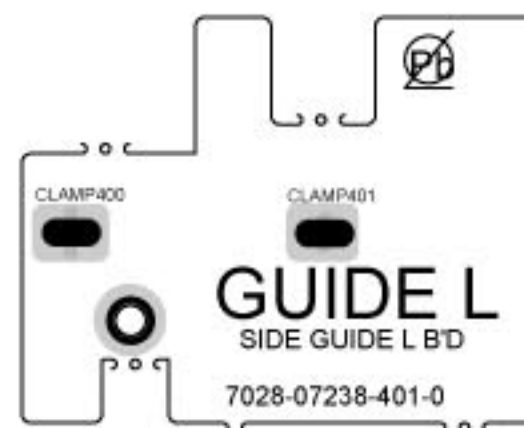
**TOP_GUIDE
(COMPONENT SIDE)**



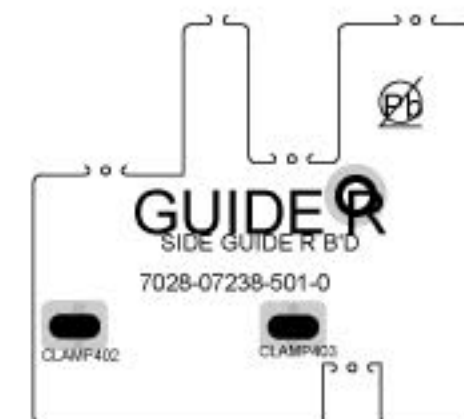
F/H_GUIDE
(COMPONENT SIDE)



GUIDE L (COMPONENT SIDE)



**GUIDE R
(COMPONENT SIDE)**

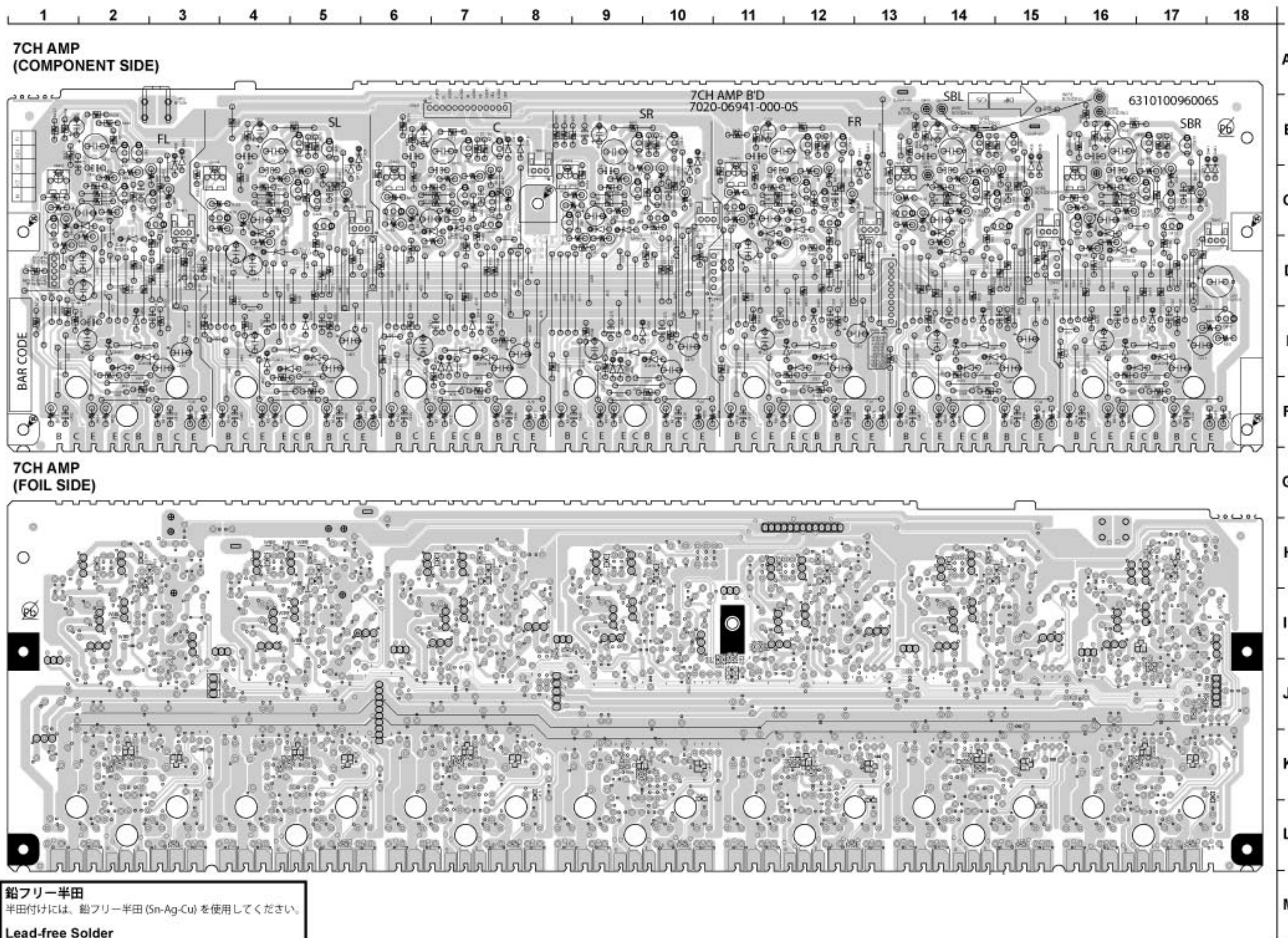


鉛フリー半田

半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

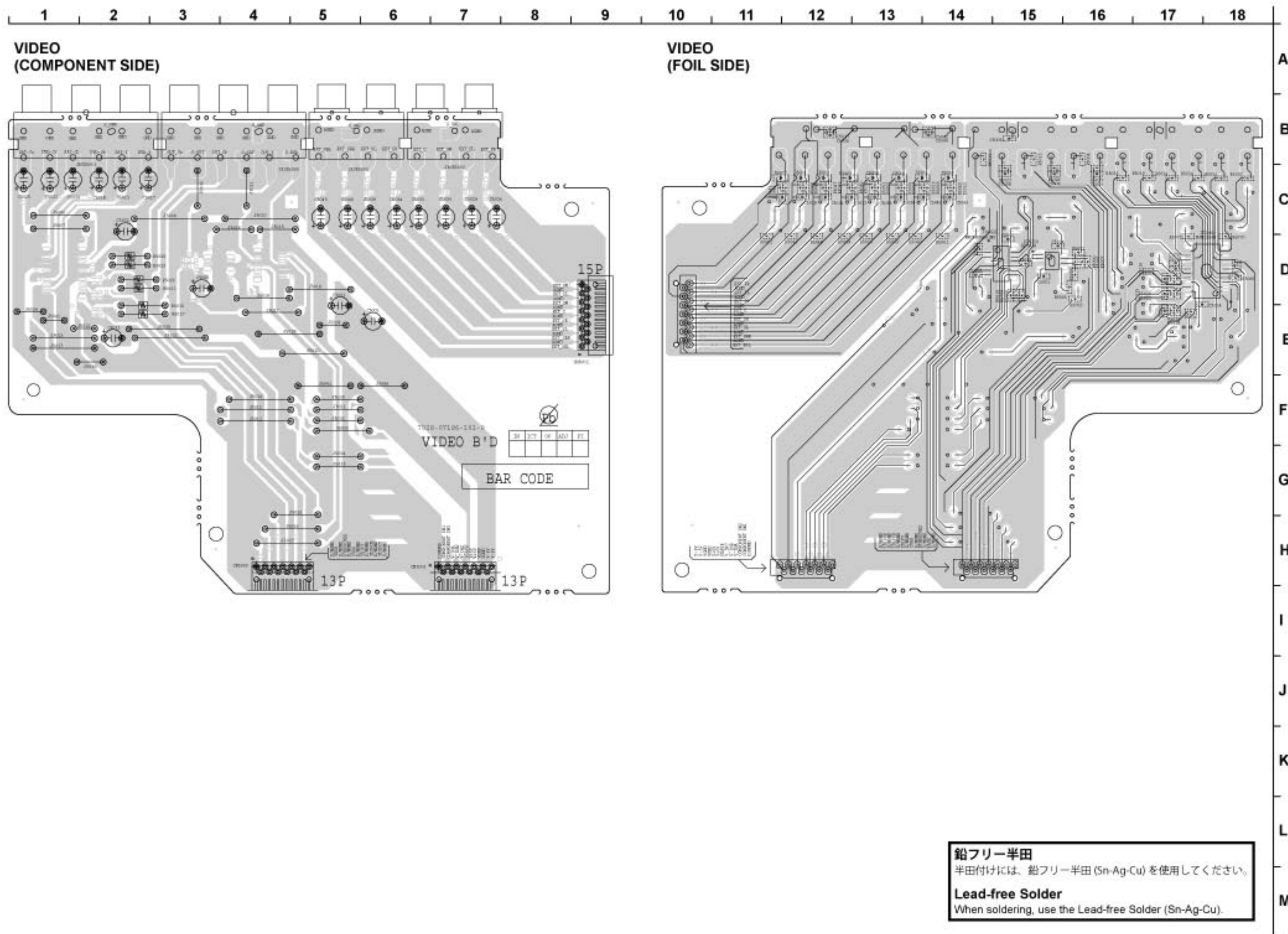
Lead-free Solder

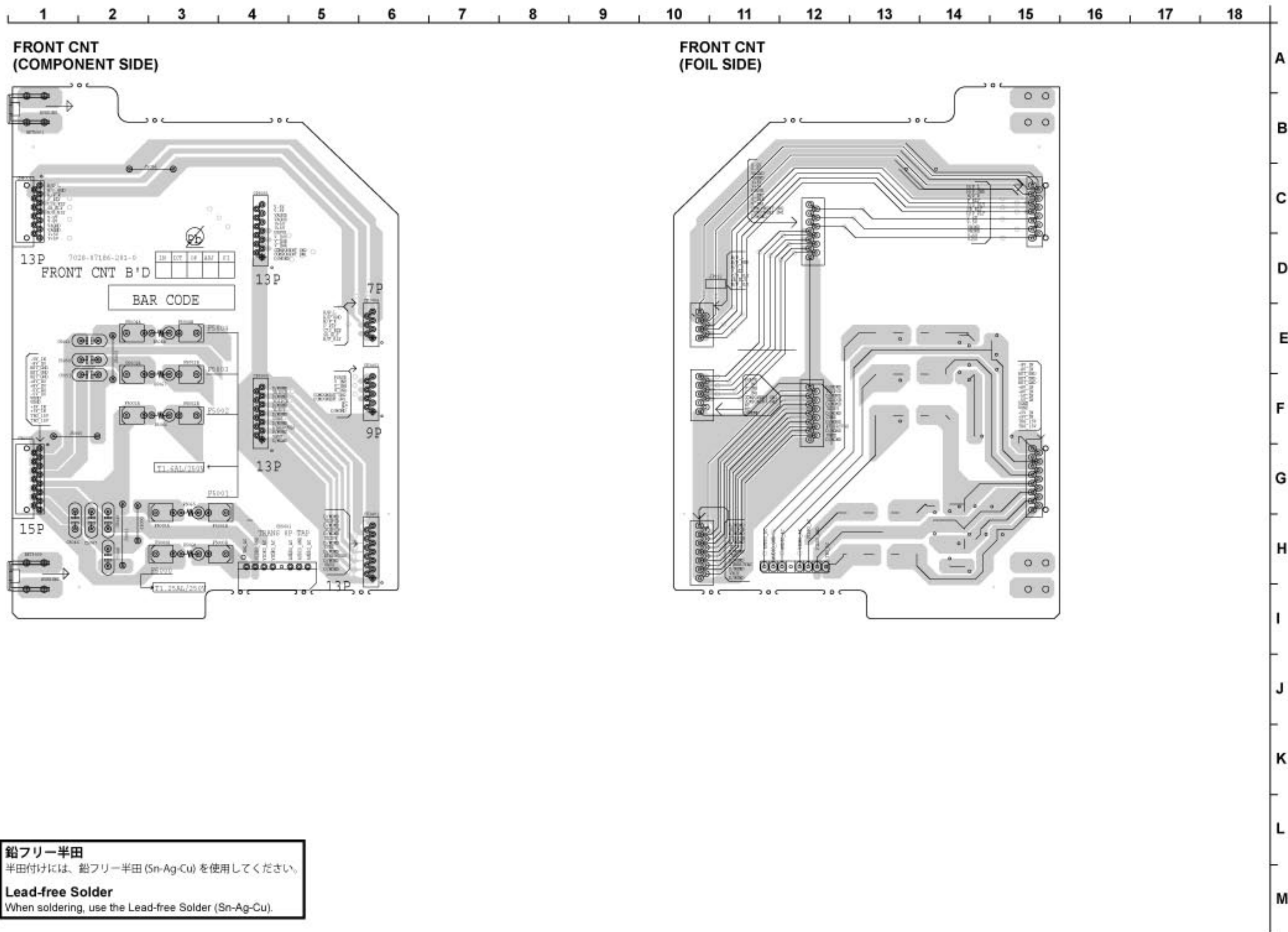
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

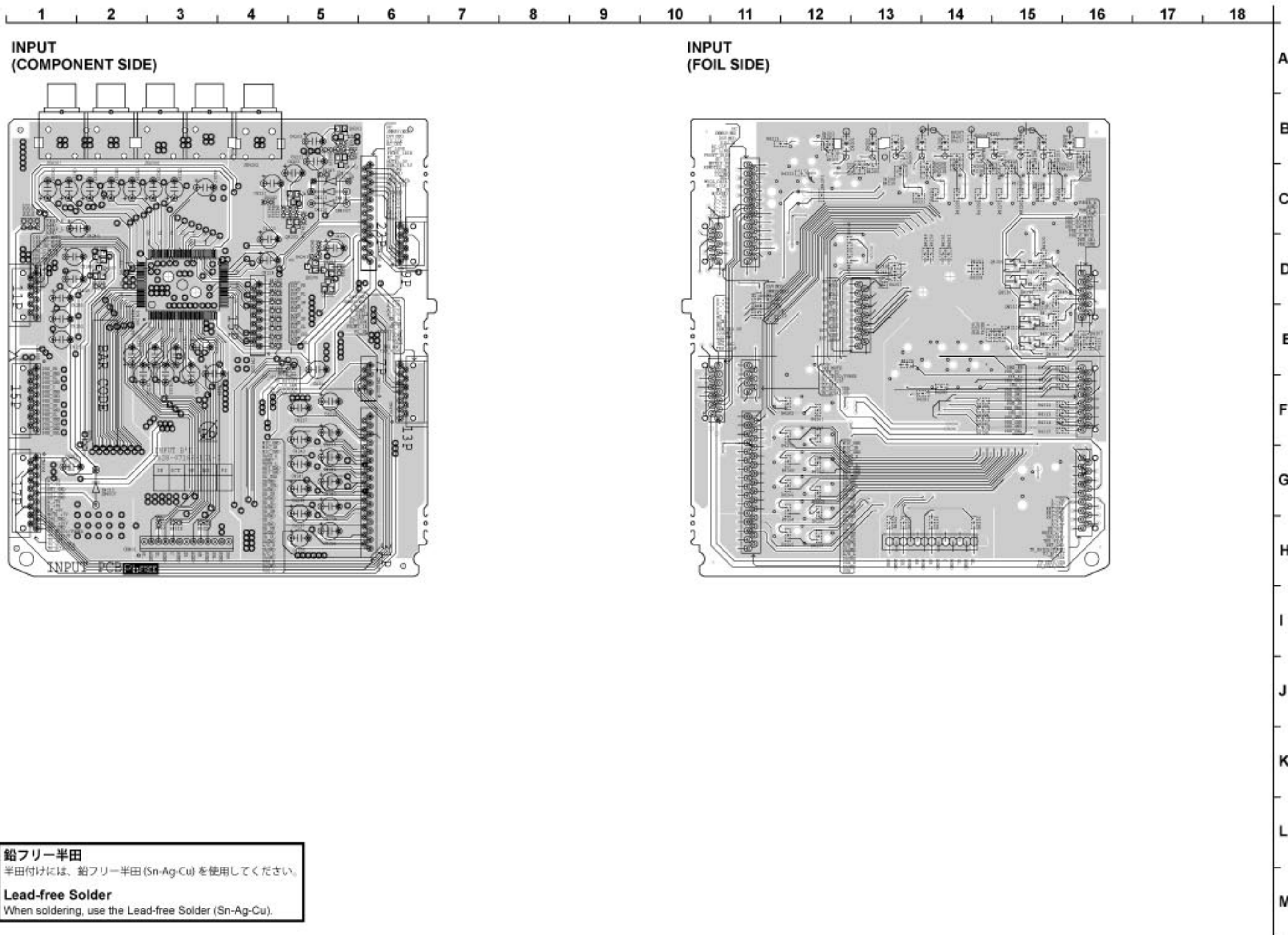


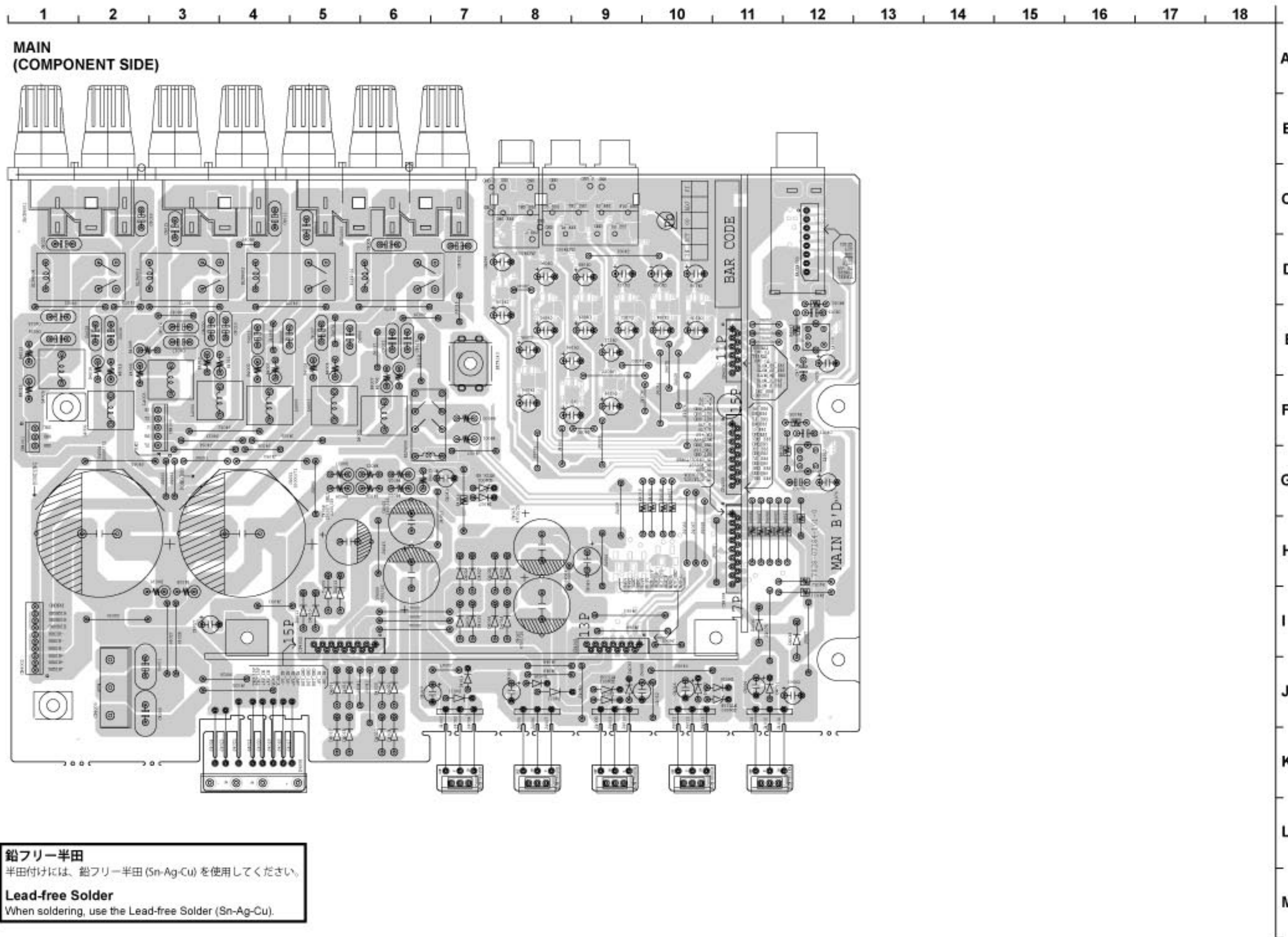
鉛フリー半田
 半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

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



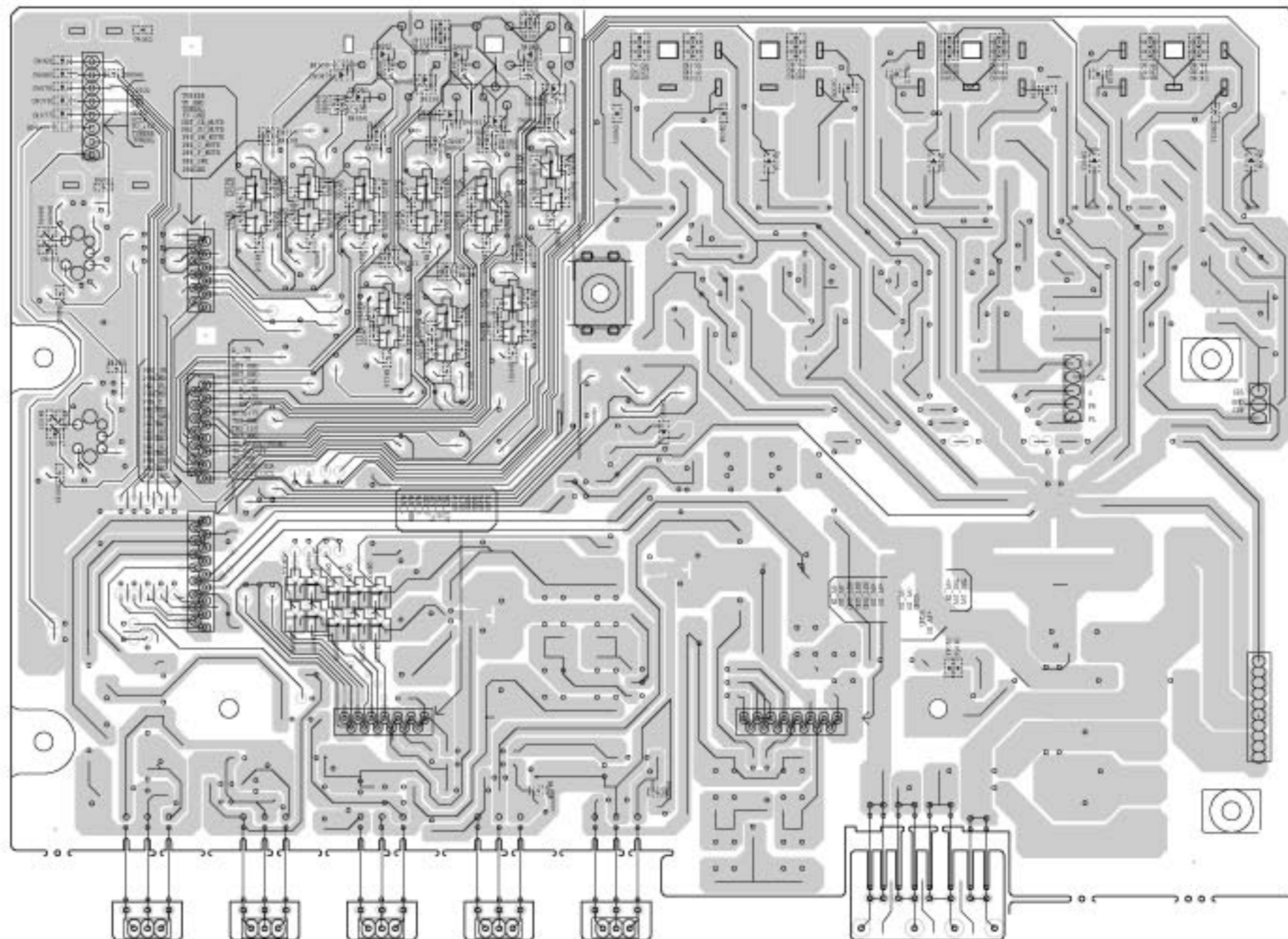






1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

**MAIN
(FOIL SIDE)**



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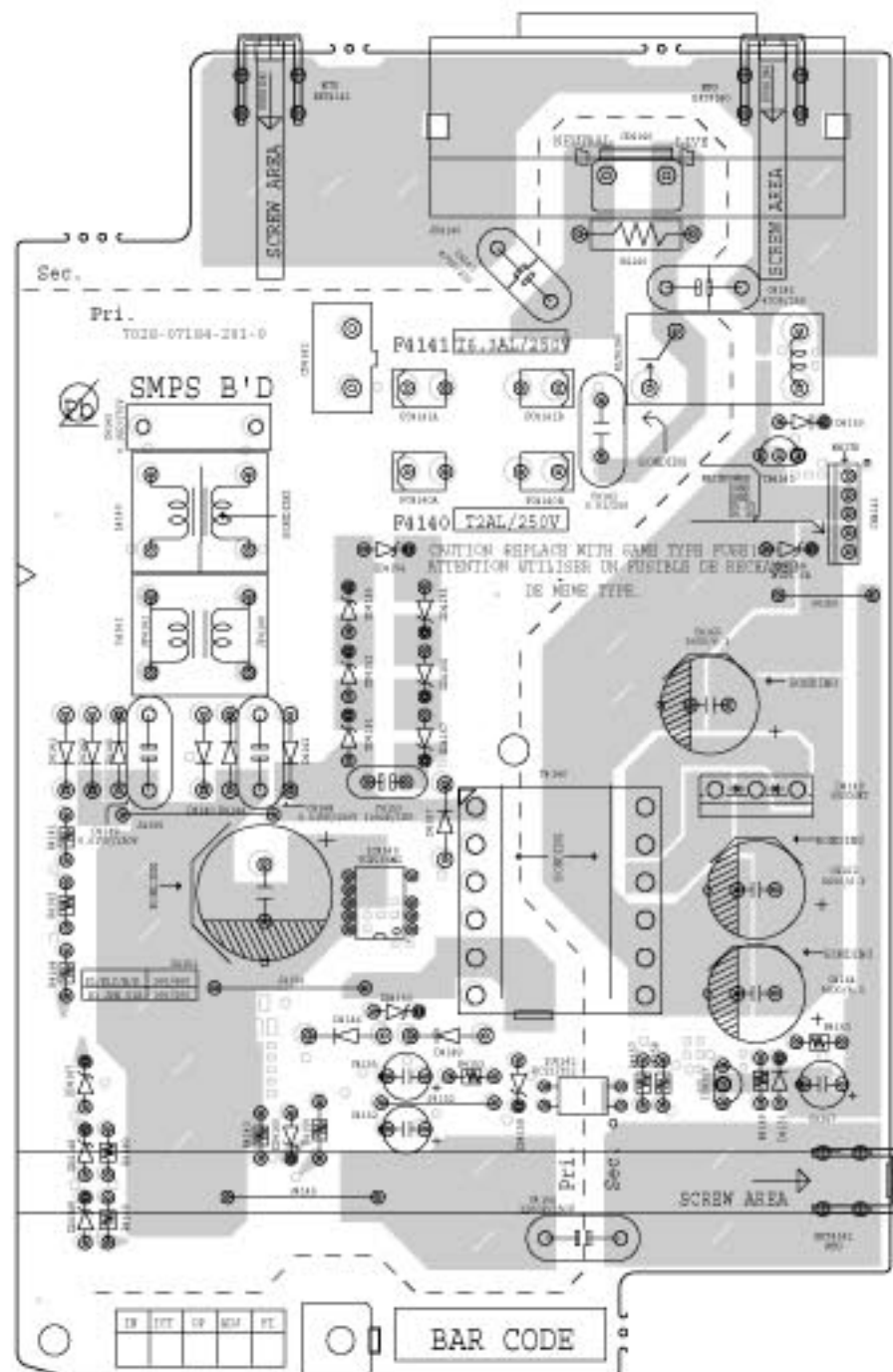
L

M

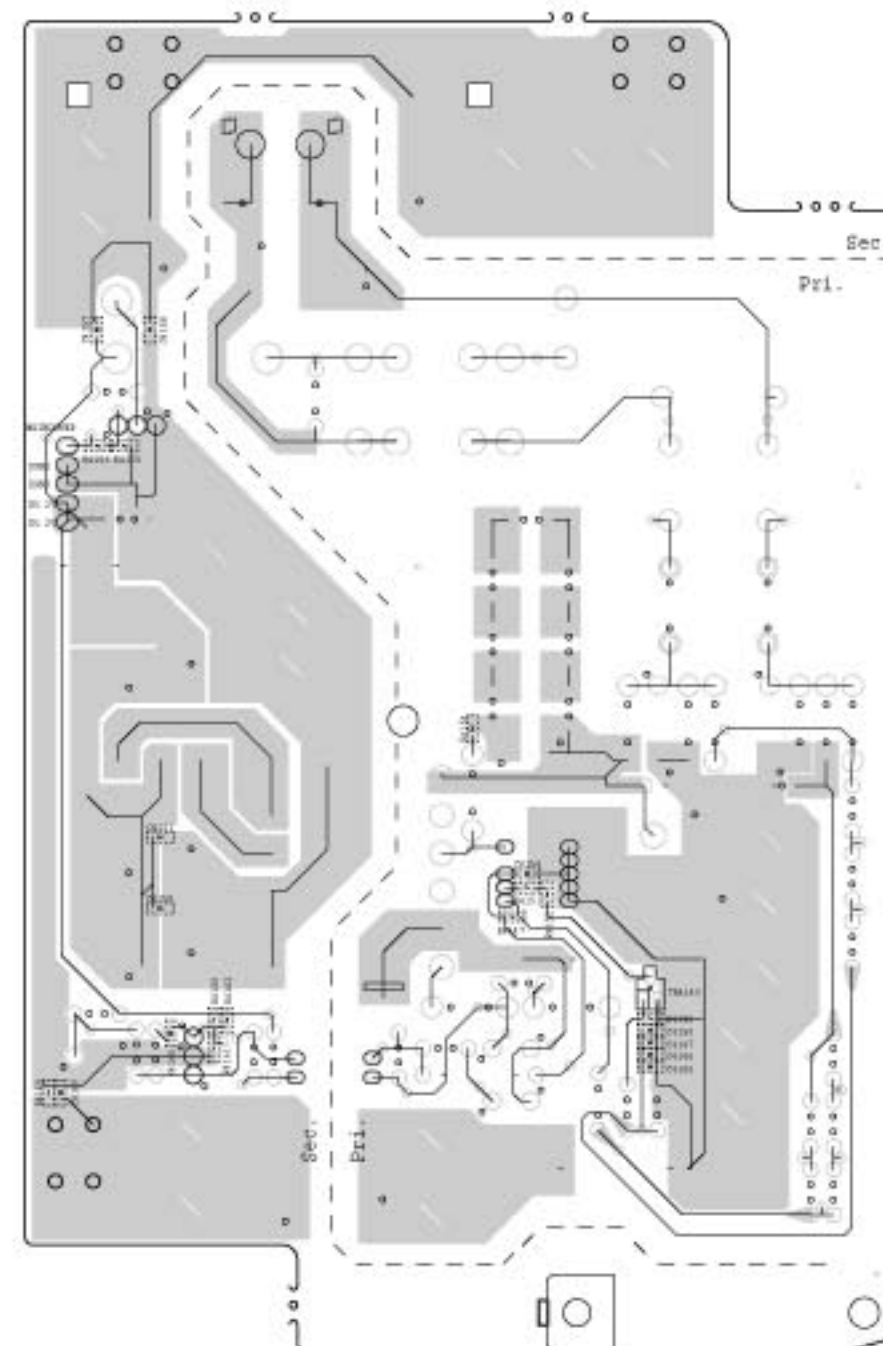
鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

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

SMPS (COMPONENT SIDE)



SMPS (FOIL SIDE)

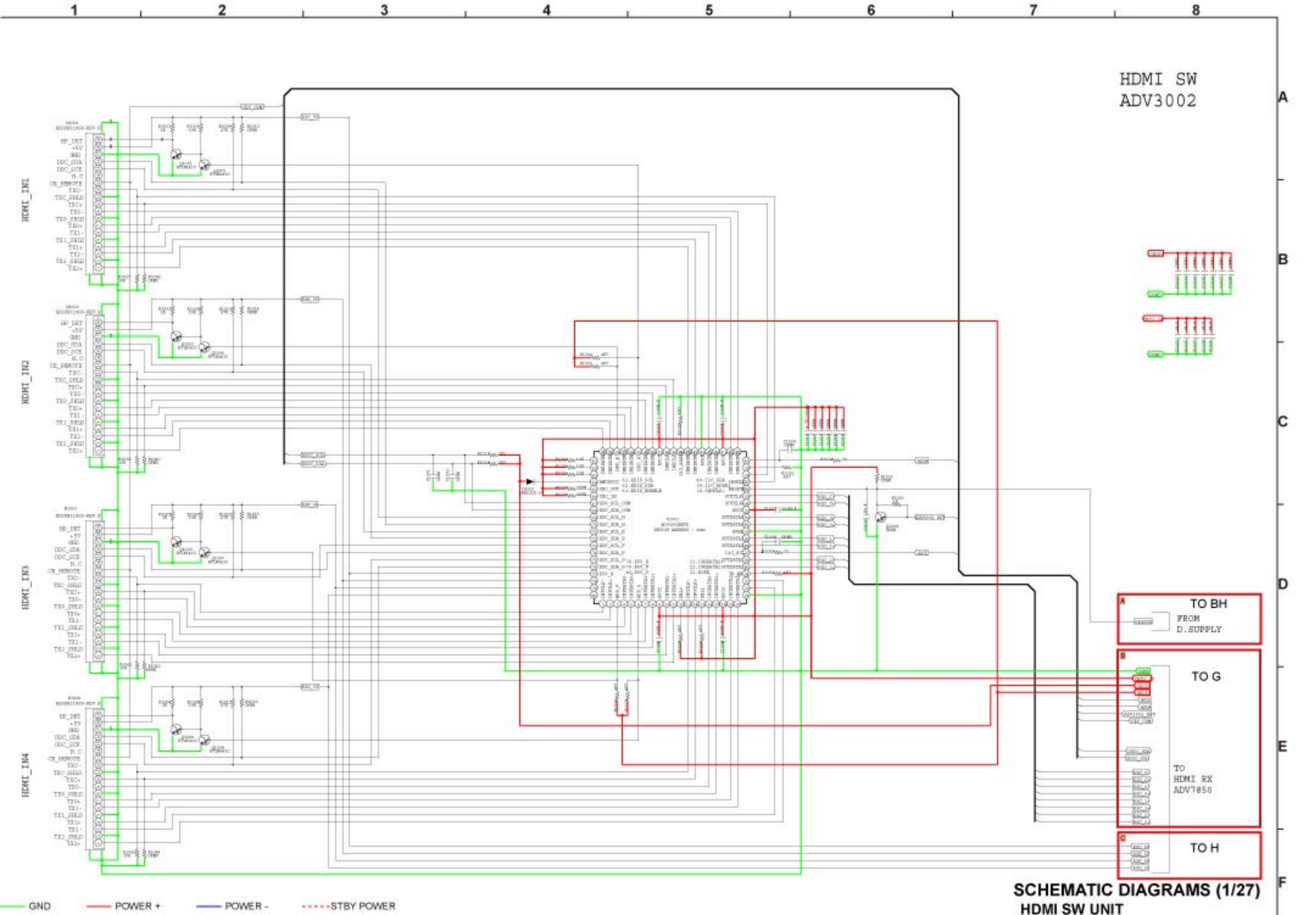


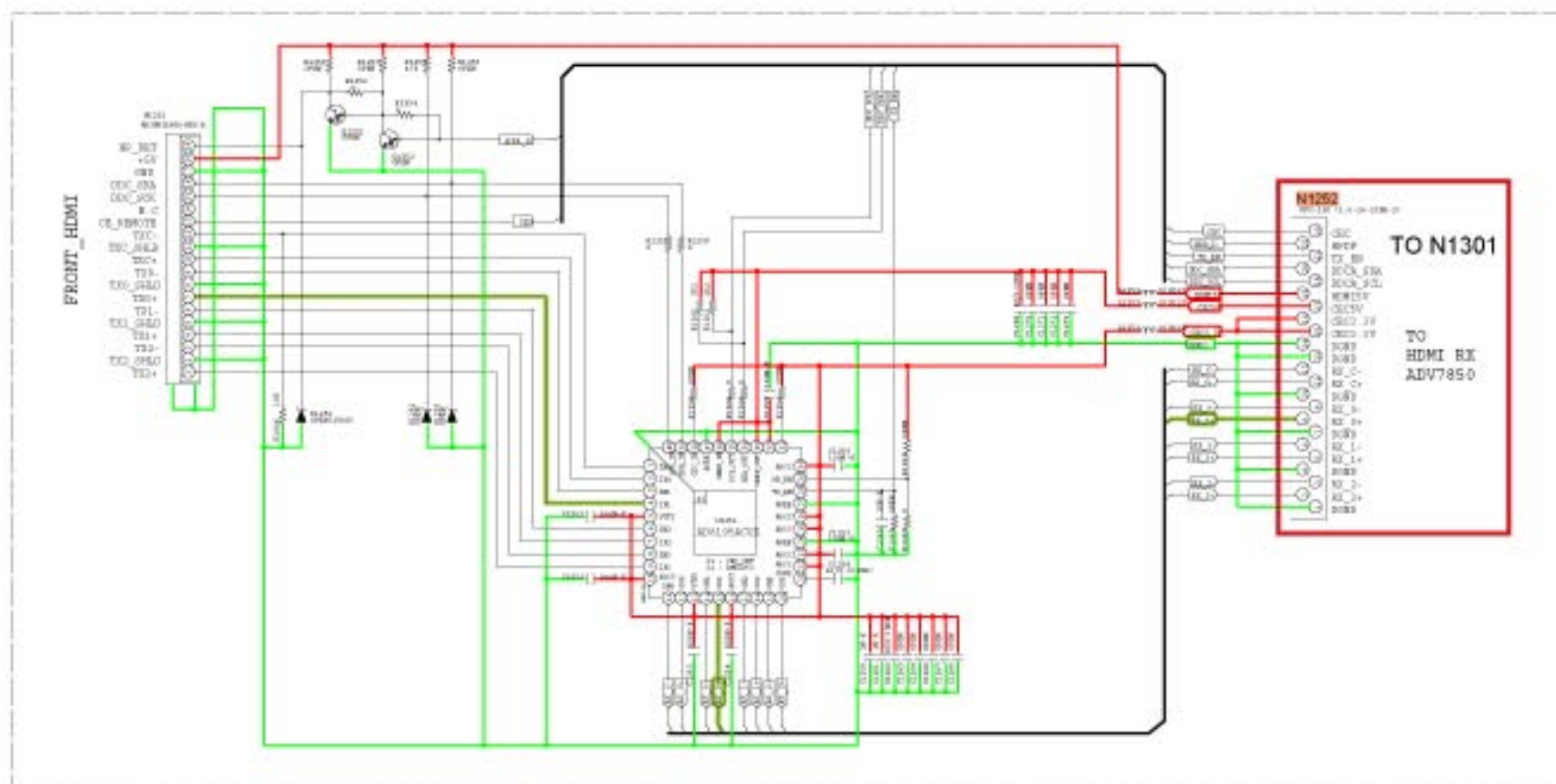
鉛フリー半田

半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

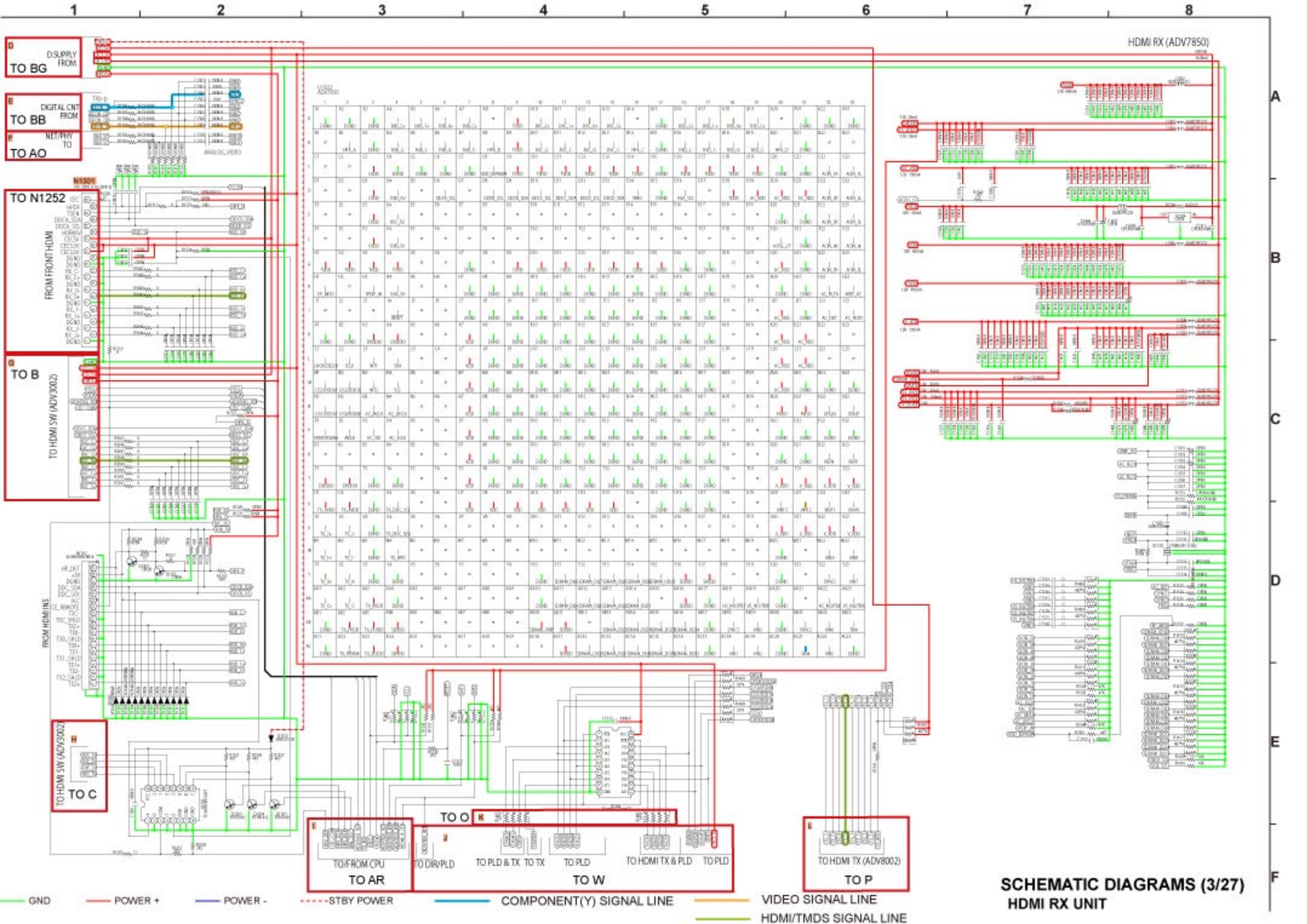
Lead-free Solder

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

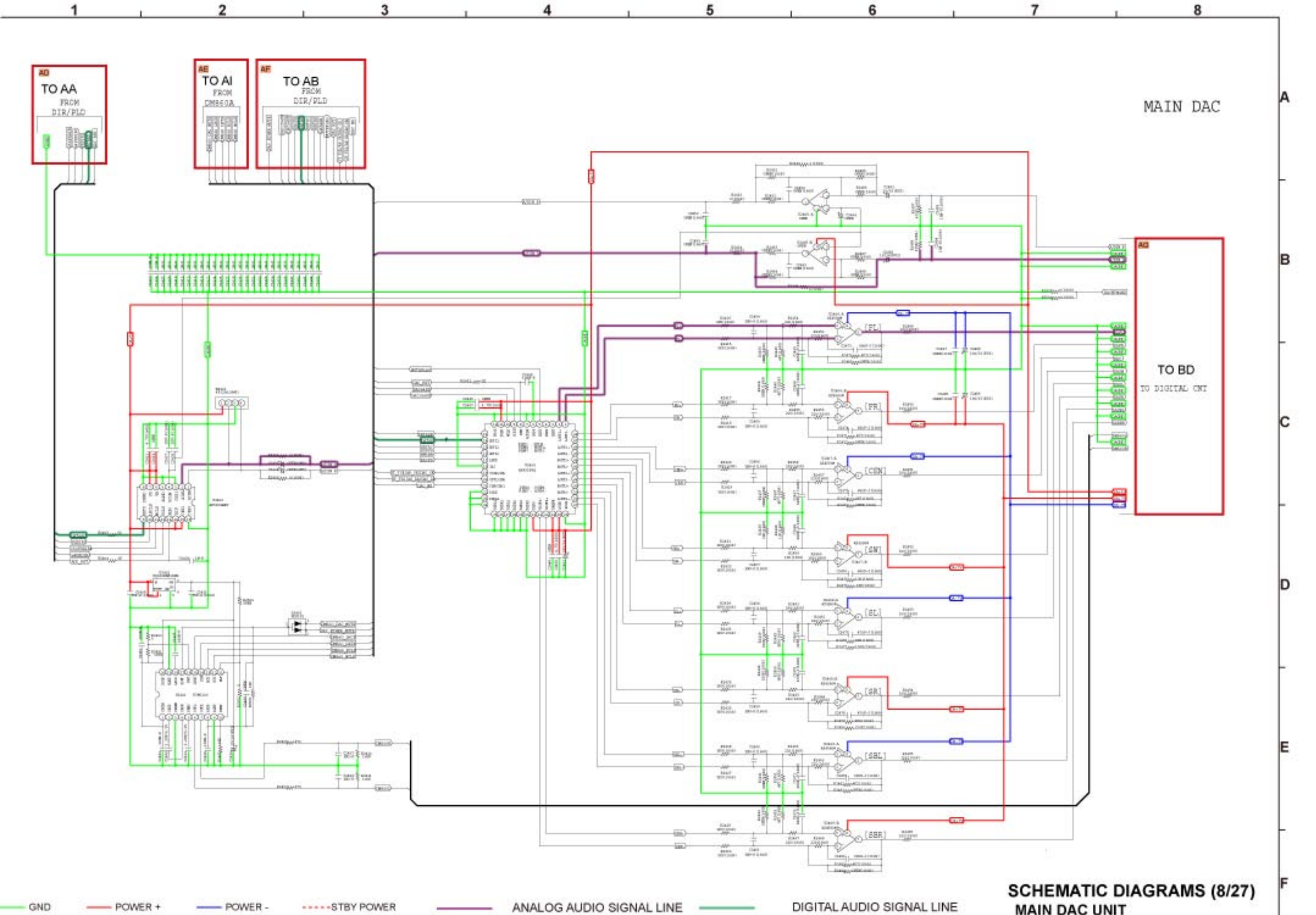


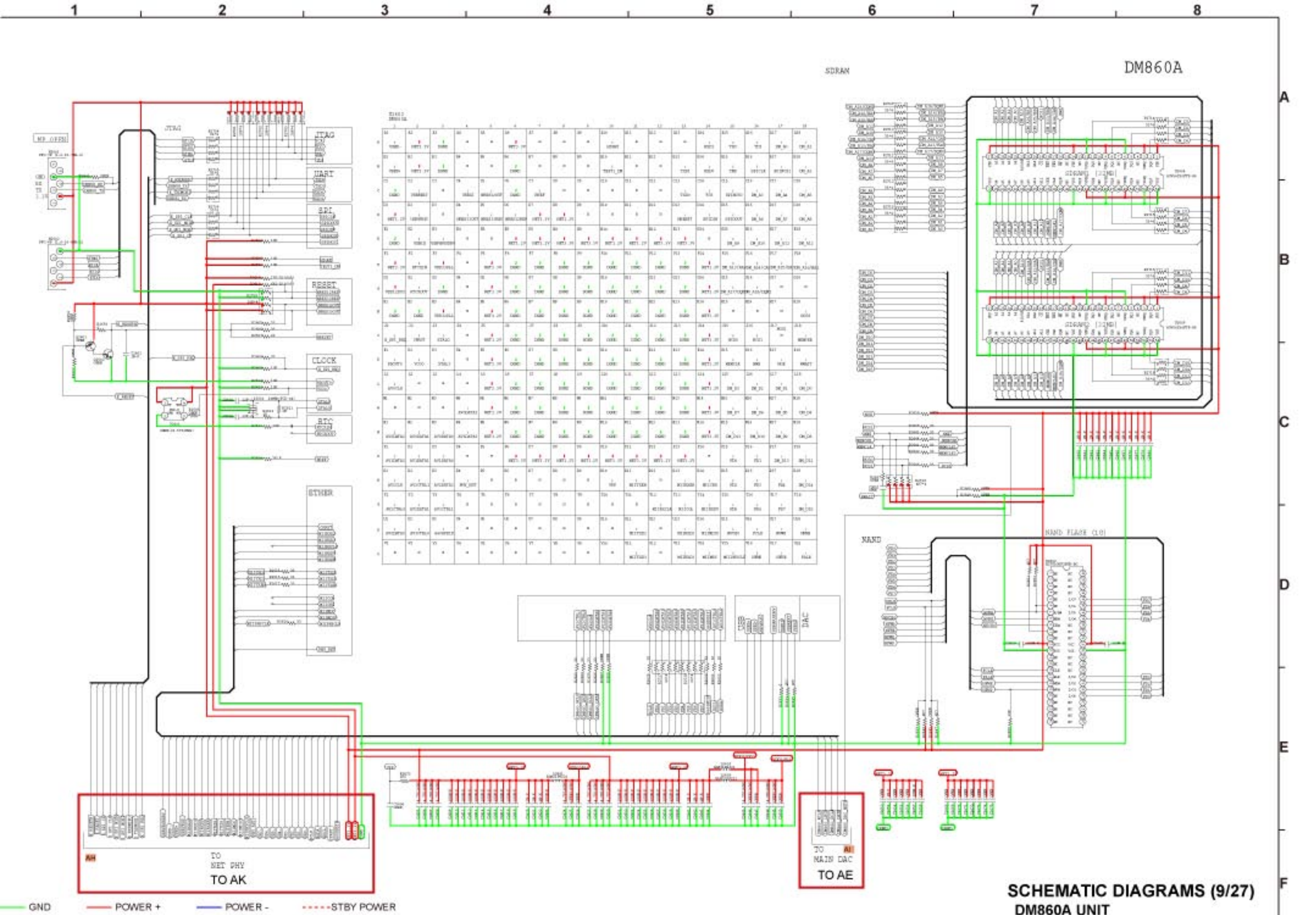


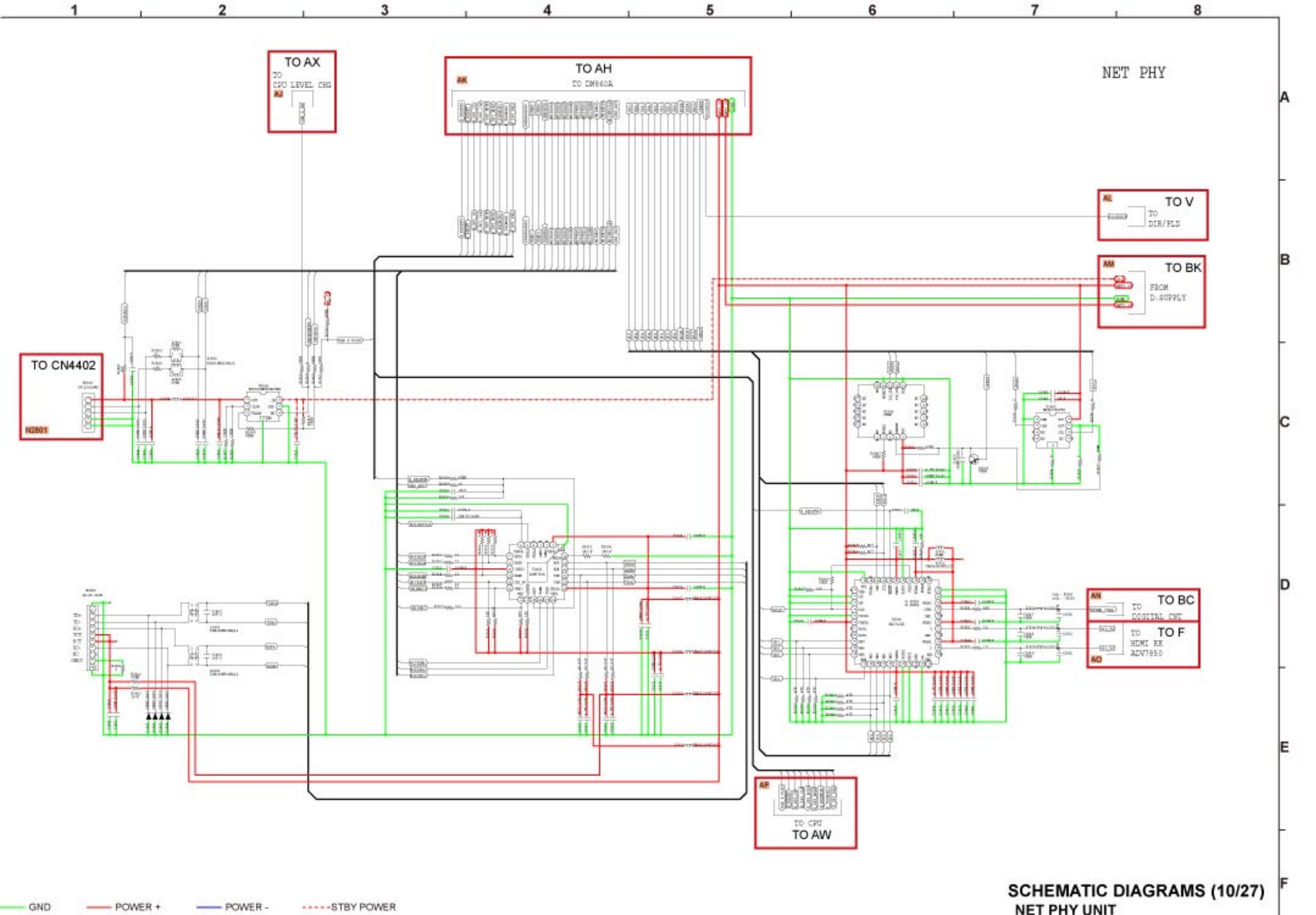
FRONT HDMI

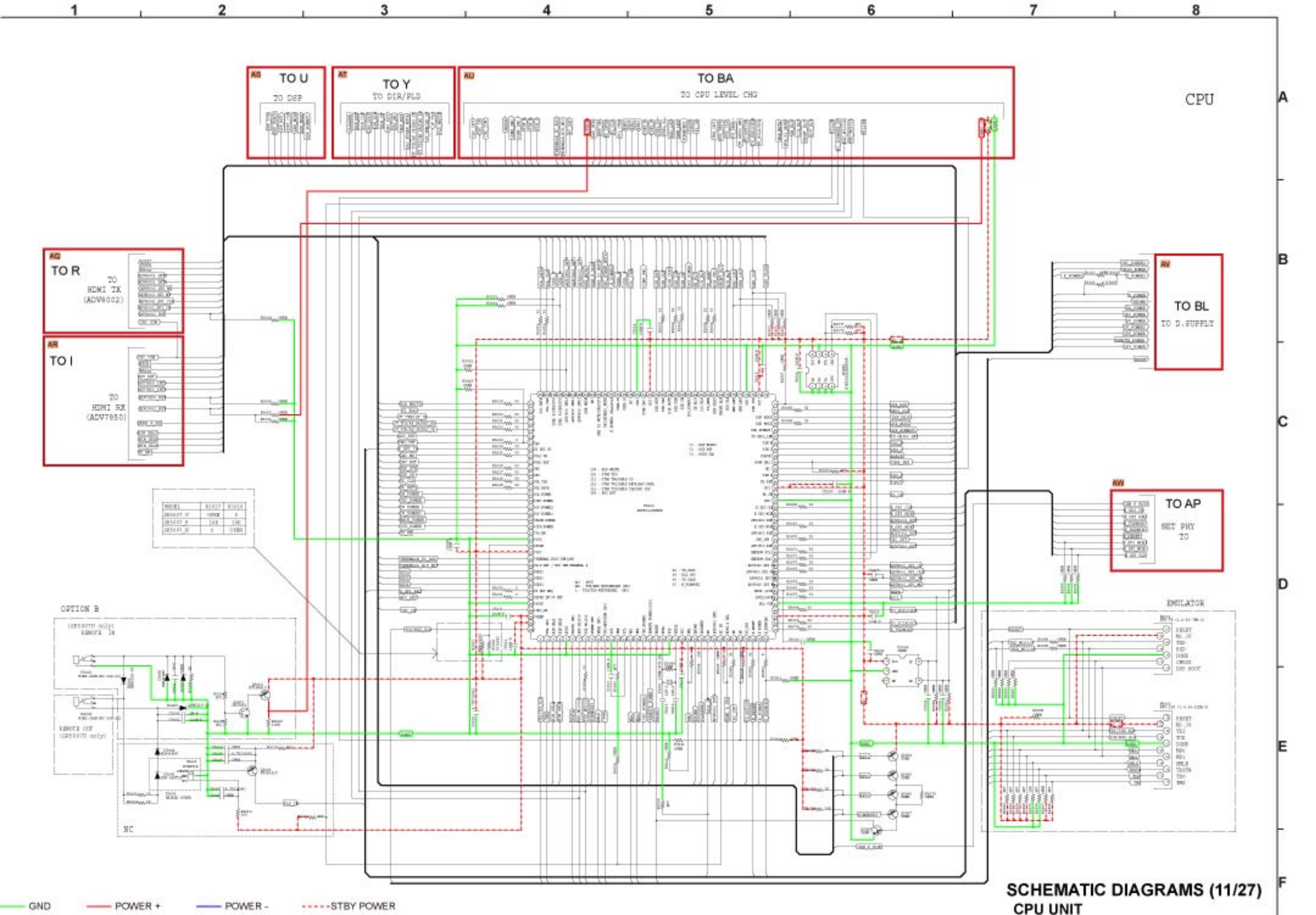


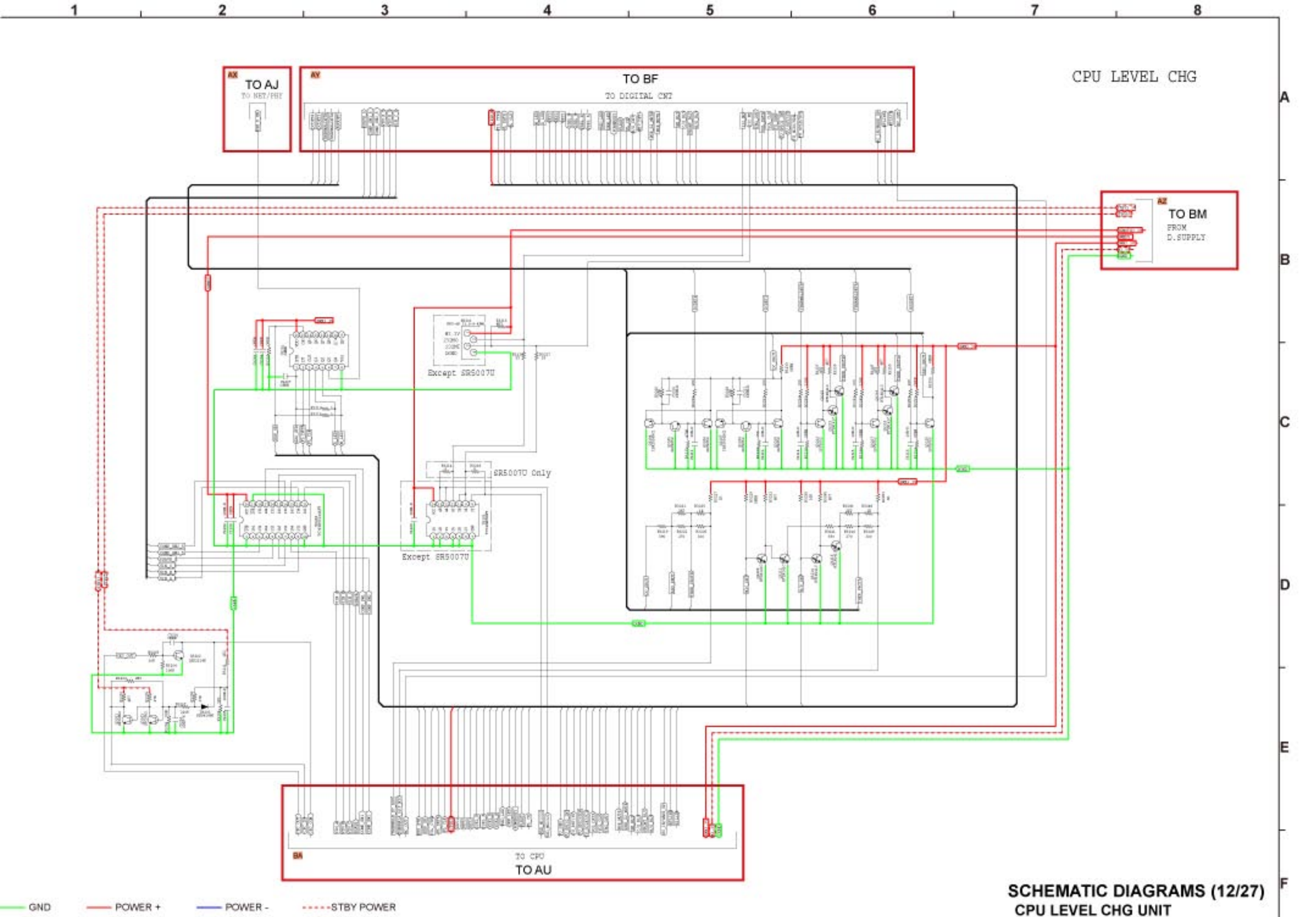


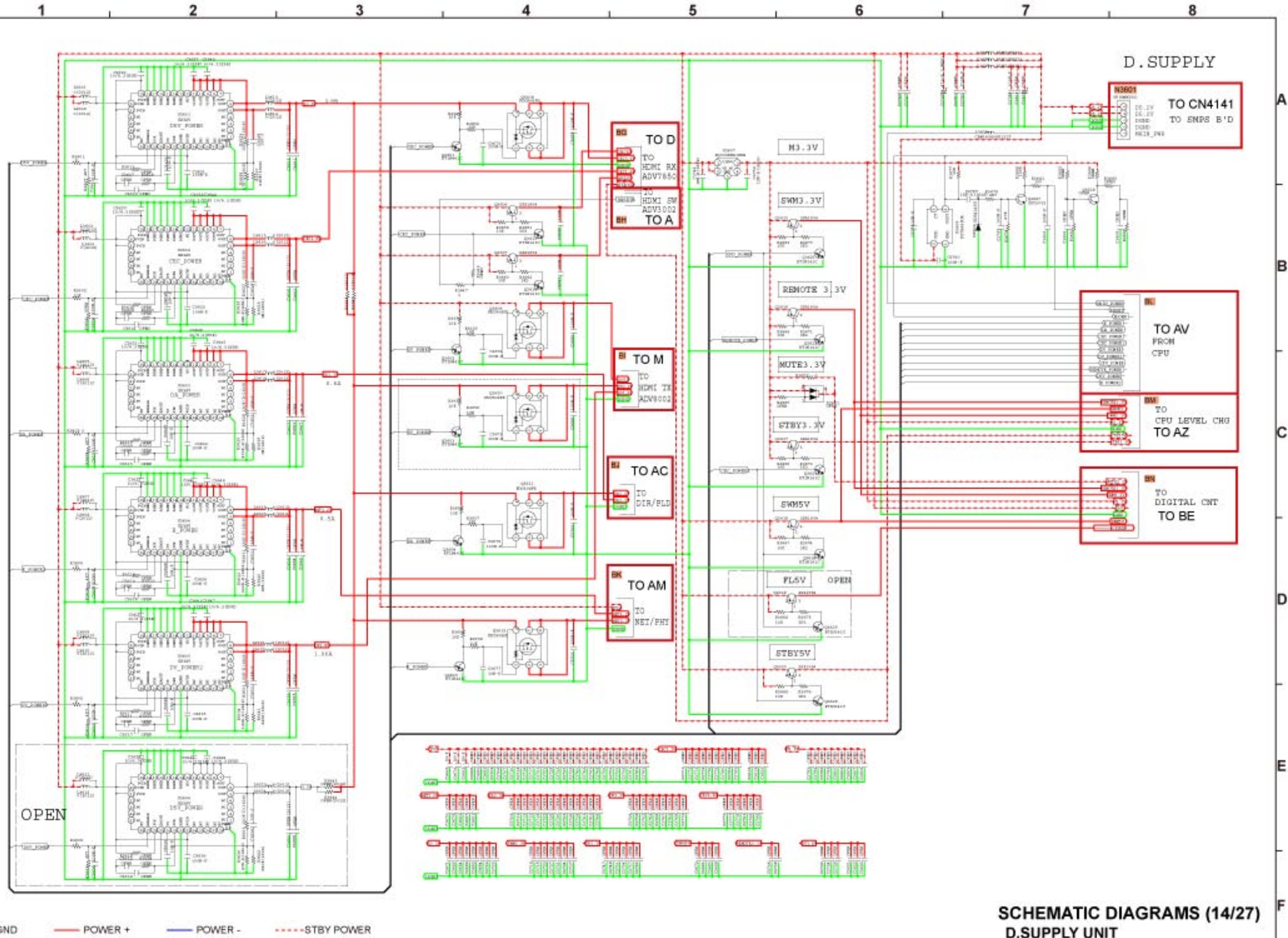




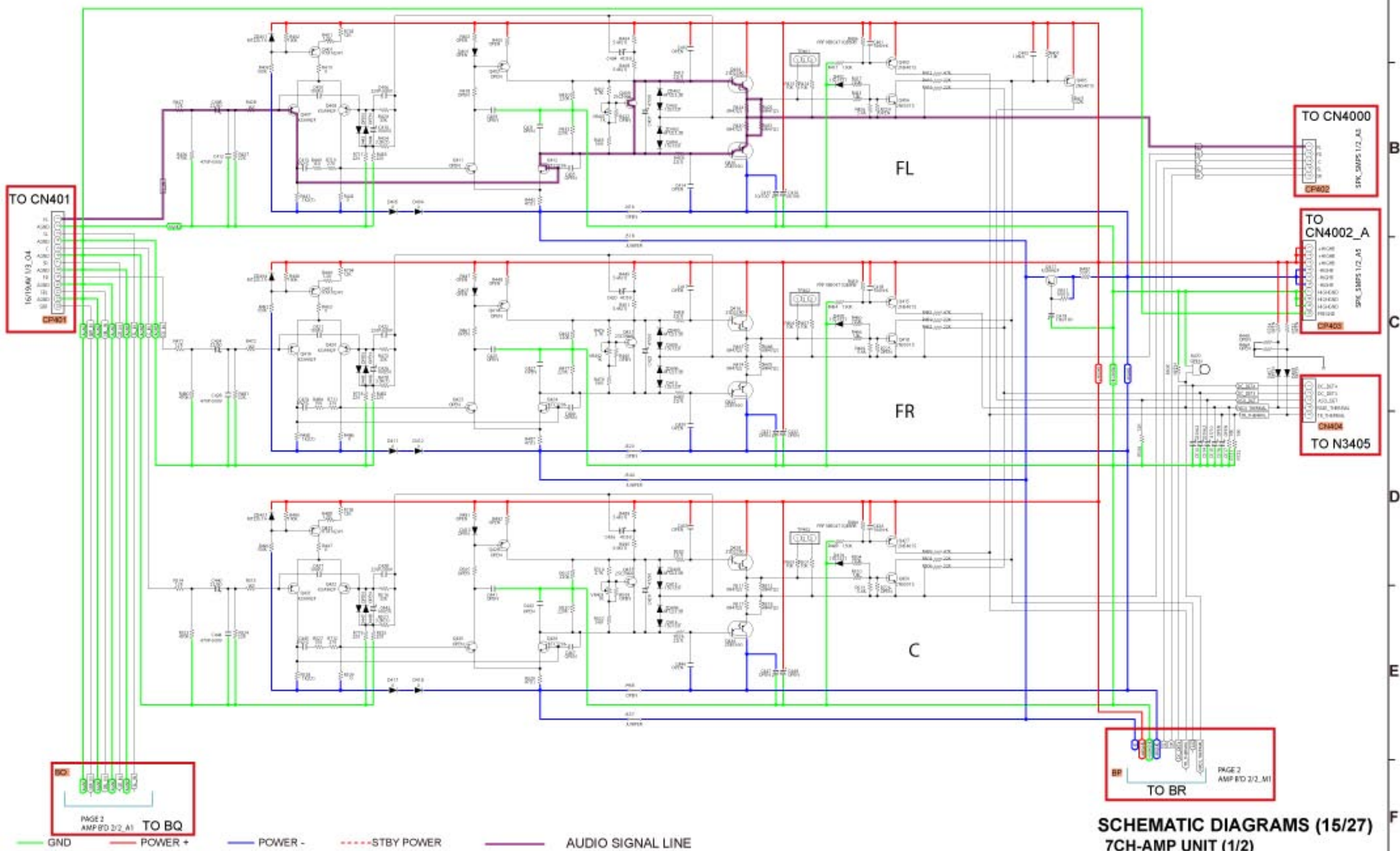


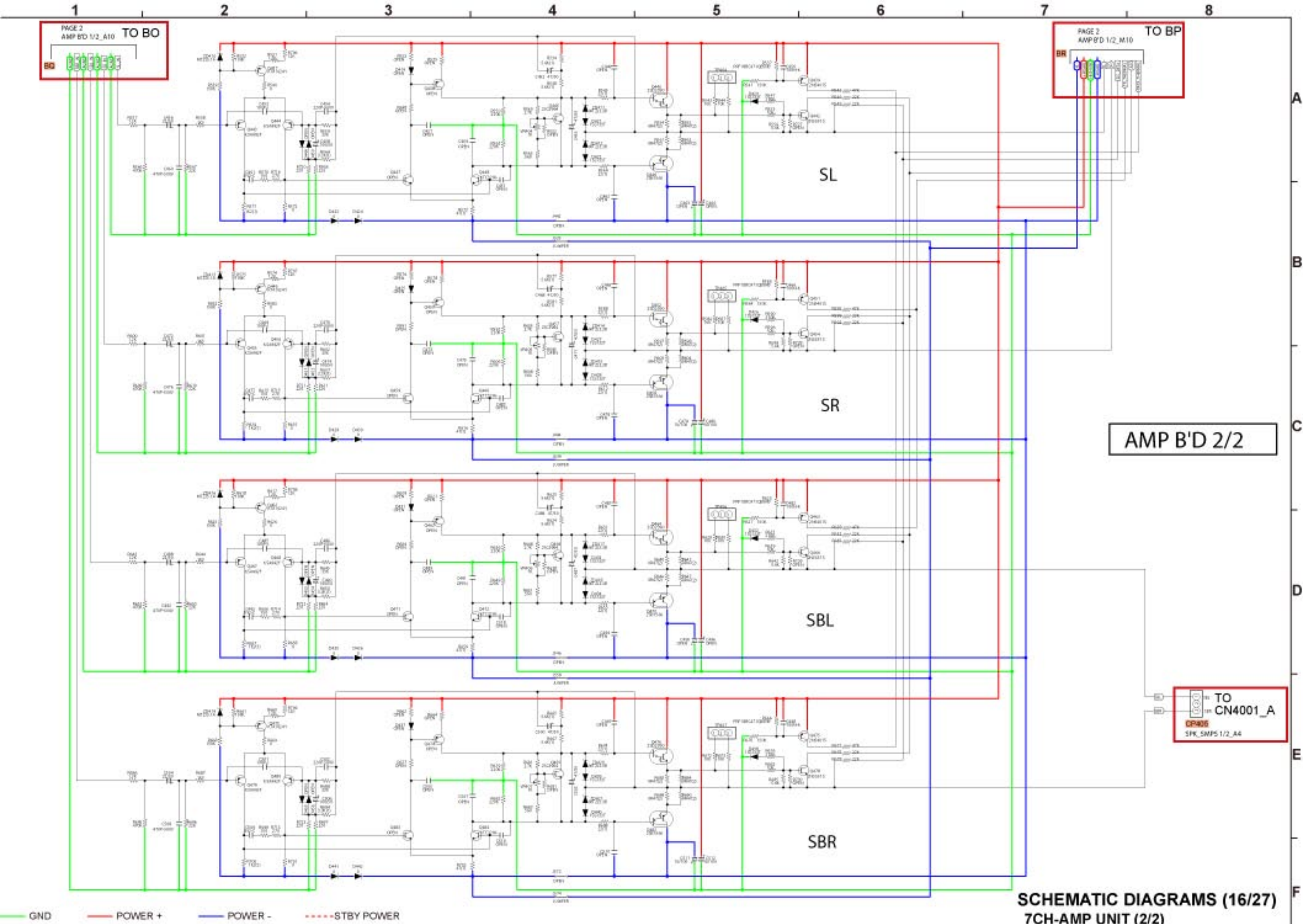






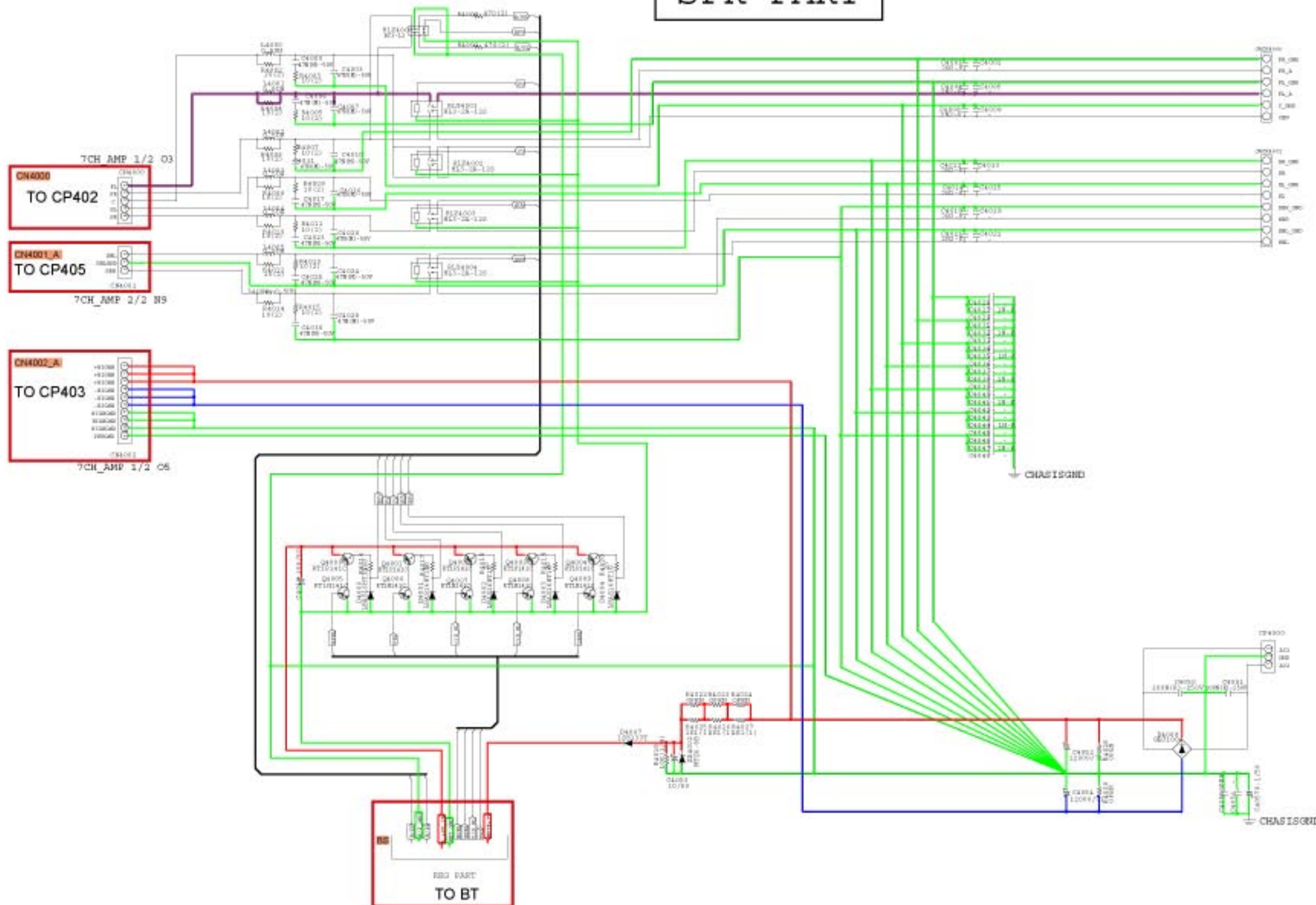
AMP B'D 1/2





SPK PART

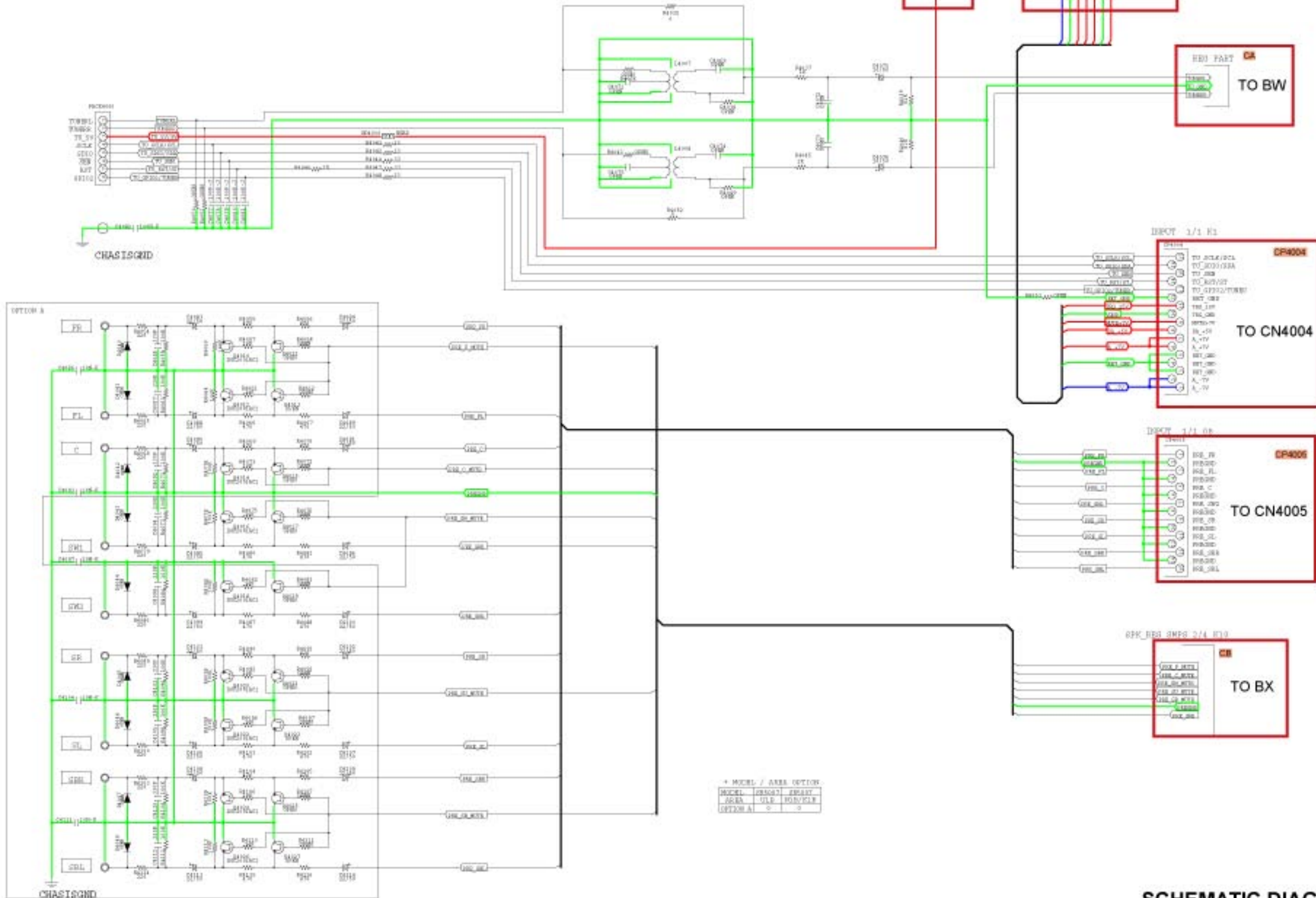
SPK_REG_SMPS 1/4



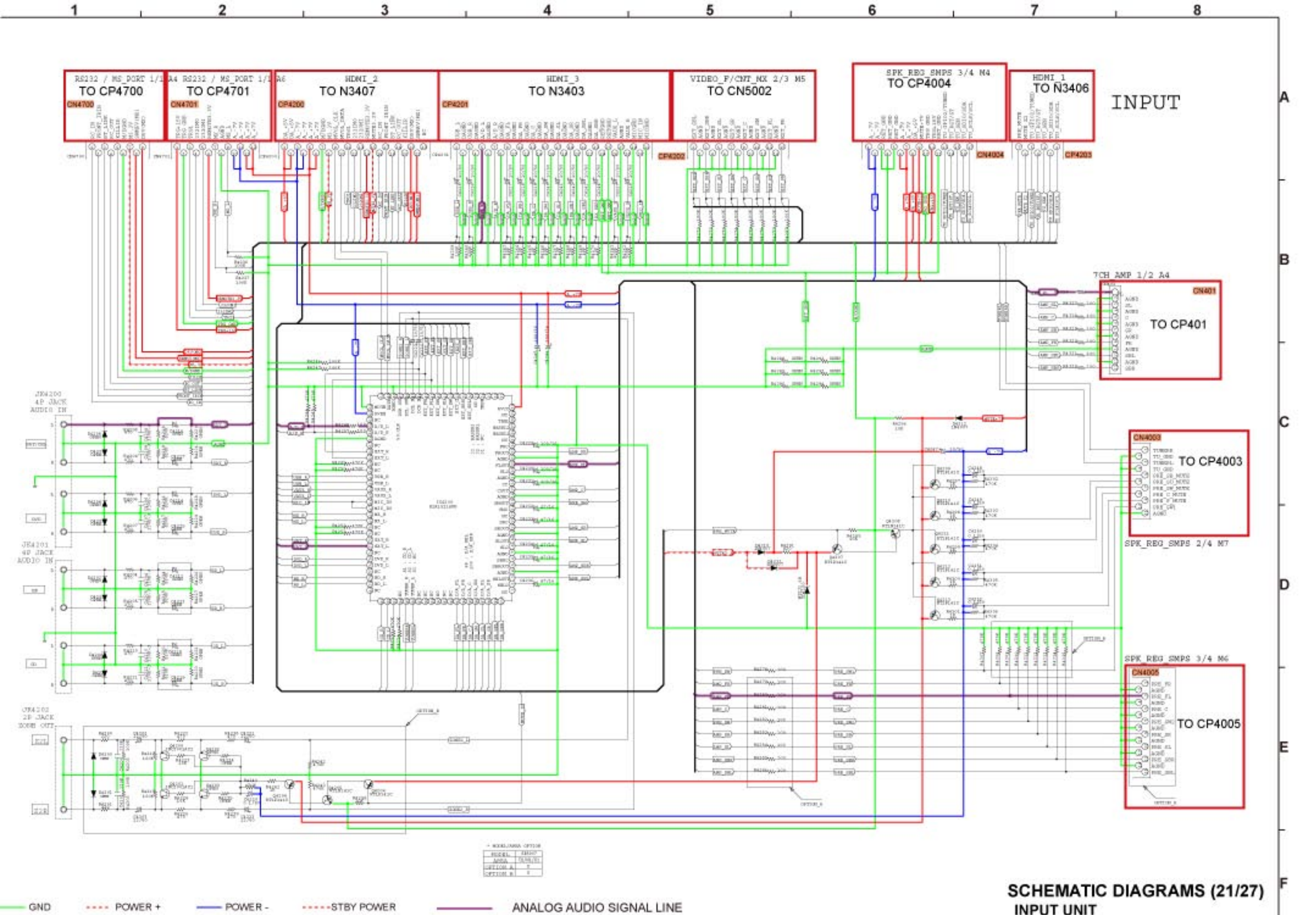
SCHEMATIC DIAGRAMS (17/27)
SPK REG SMPS UNIT (1/4)

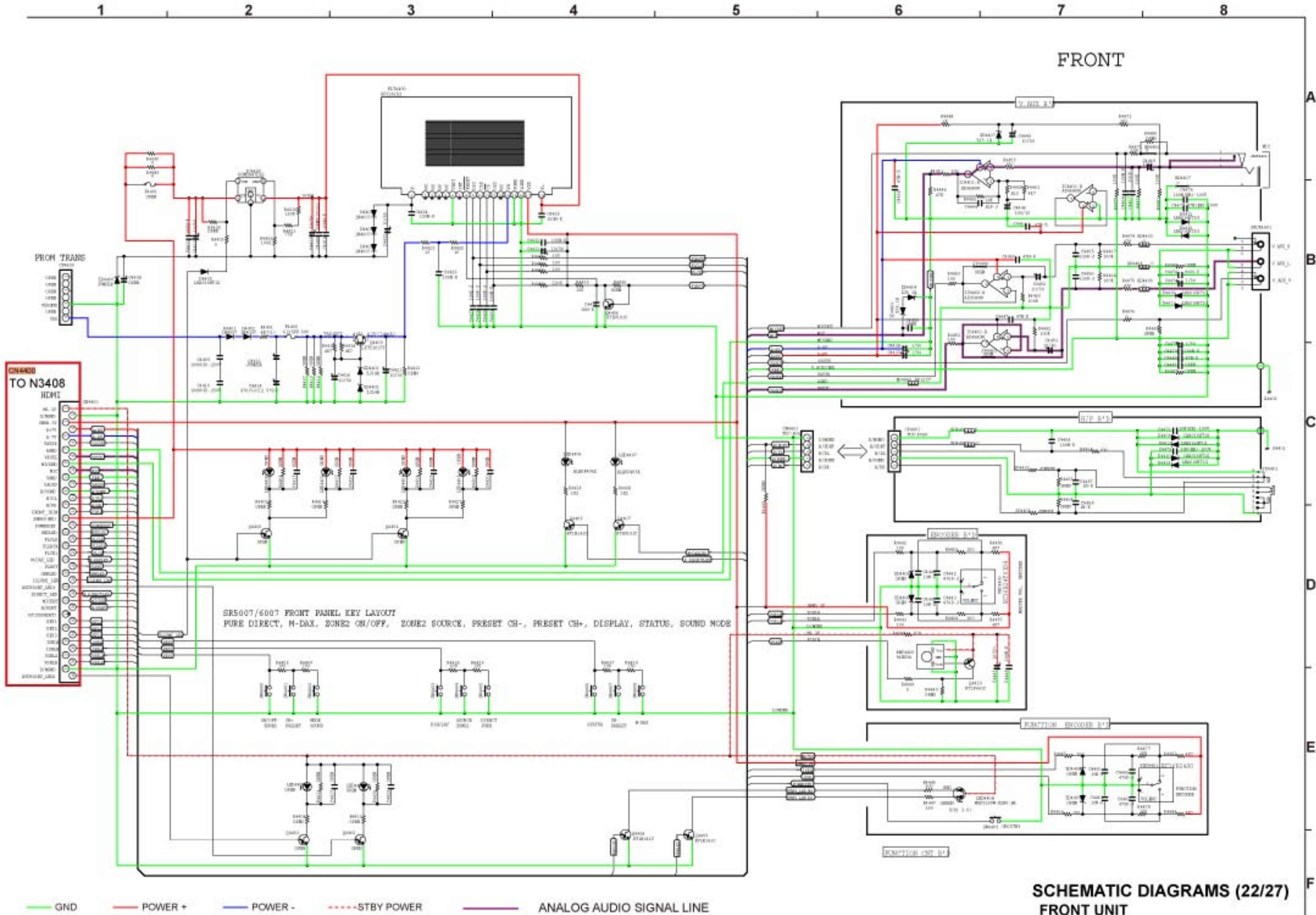
TUNER / PREOUT PART

SPK_REG_SMPS 3/4

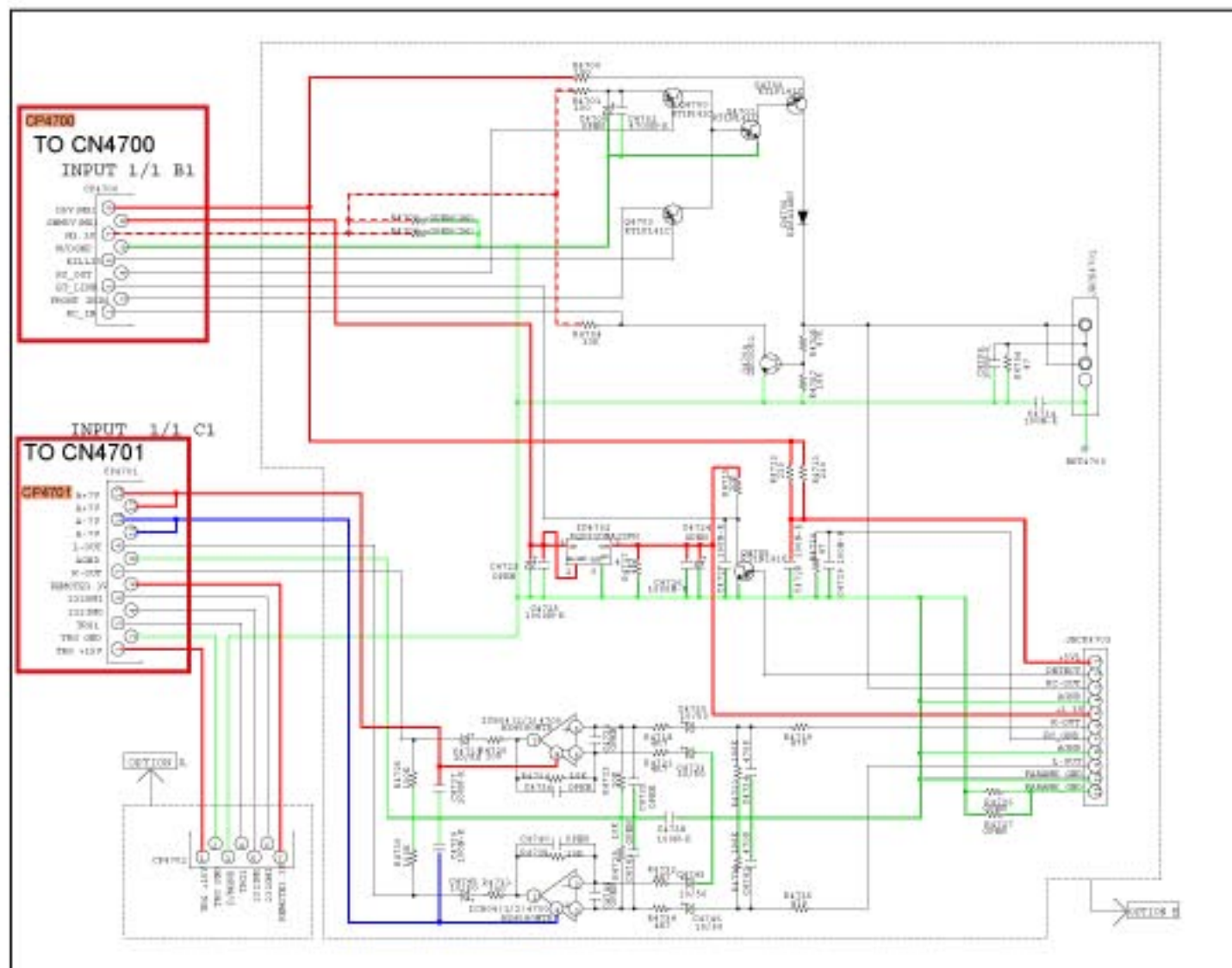


SCHEMATIC DIAGRAMS (19/27)
SPK REG SMPS UNIT (3/4)

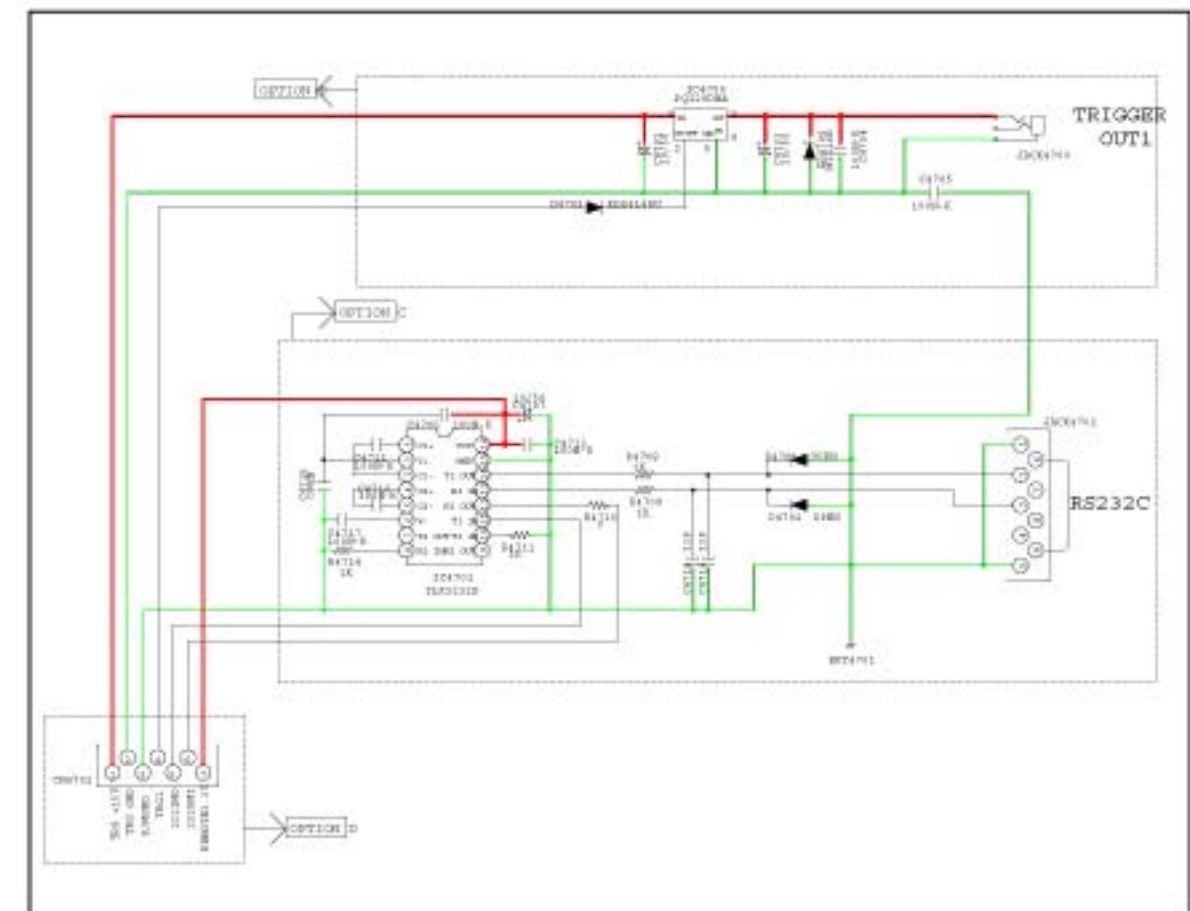




OPTIONAL CIRCUIT



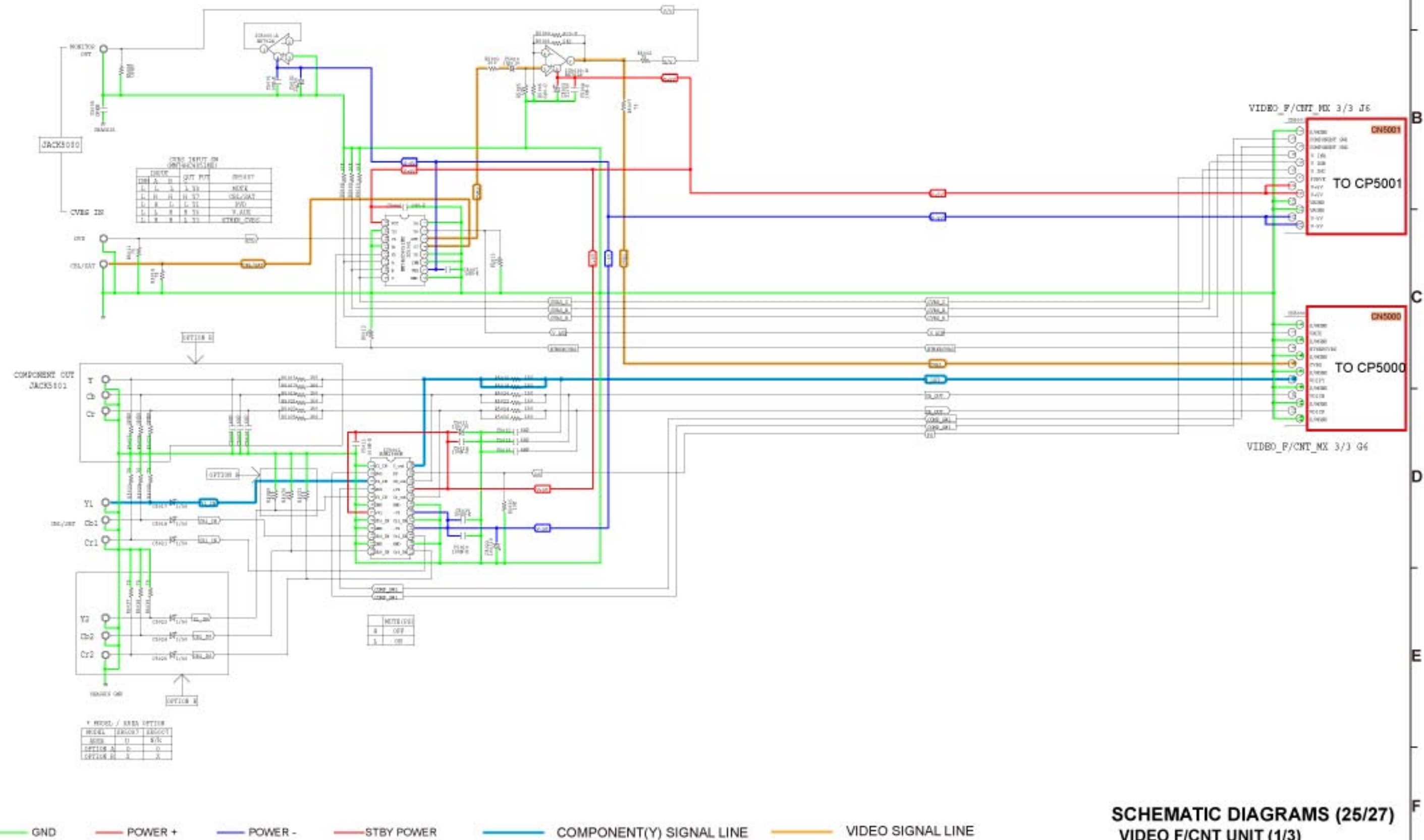
RS232 / TRI PART



MODEL	RS232C
AGGA	U M E
OPTION A	O X X
OPTION B	X X X
OPTION C	O X X
OPTION D	O X X
OPTION E	X X X

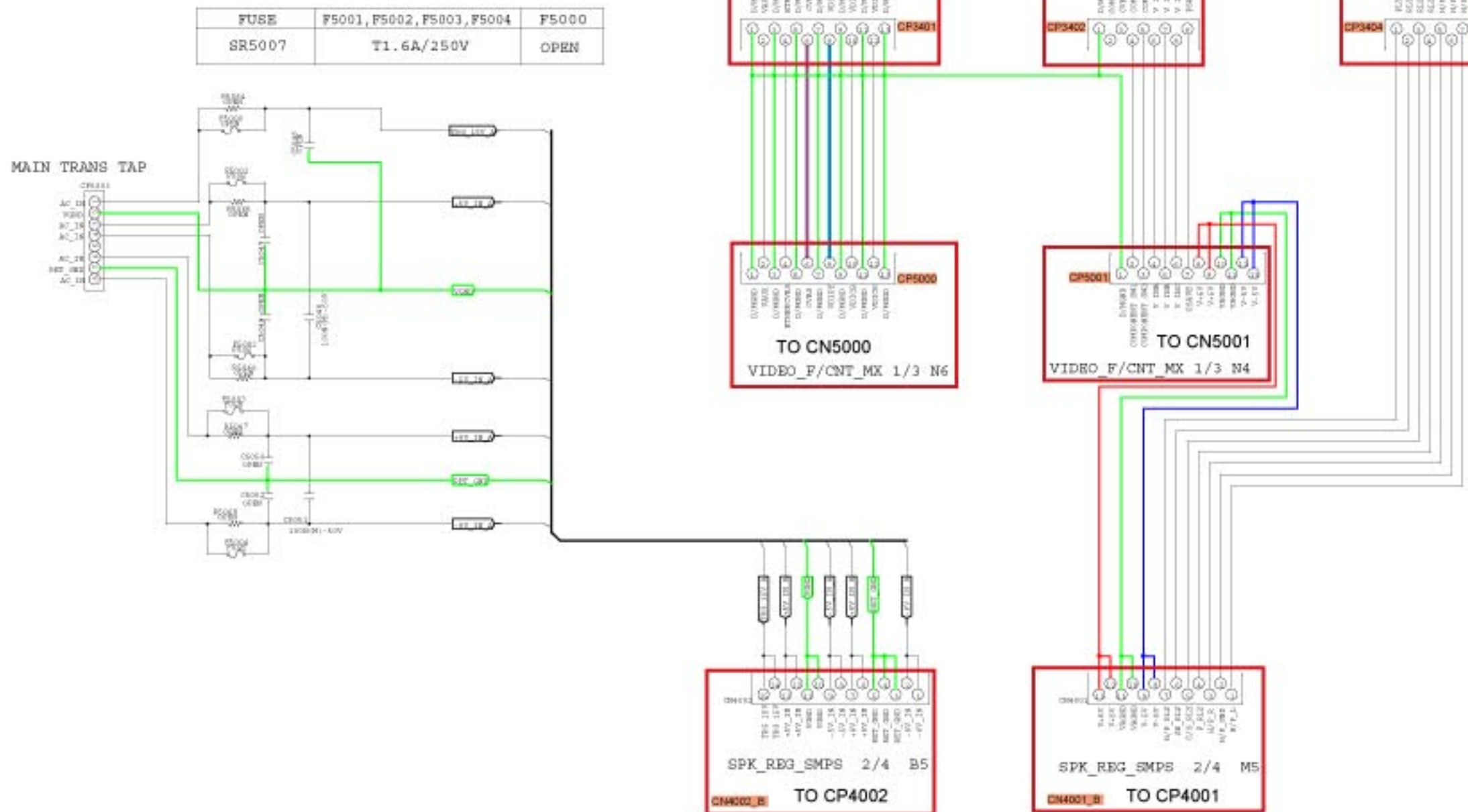
VIDEO PART

VIDEO_F/CNT



FRONT_CNT PART

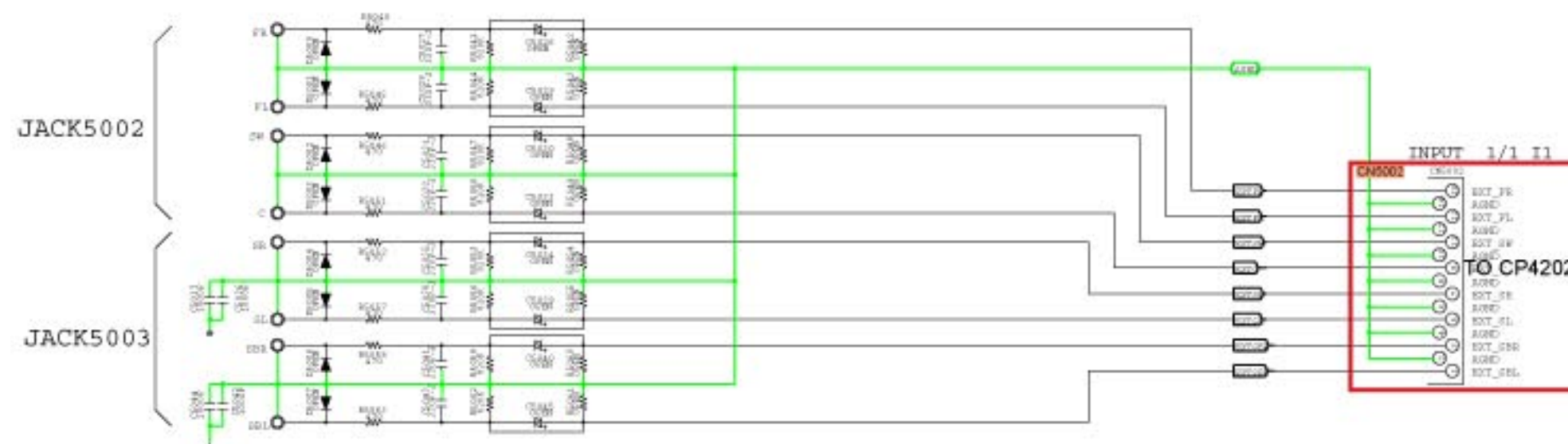
VIDEO_F/CNT

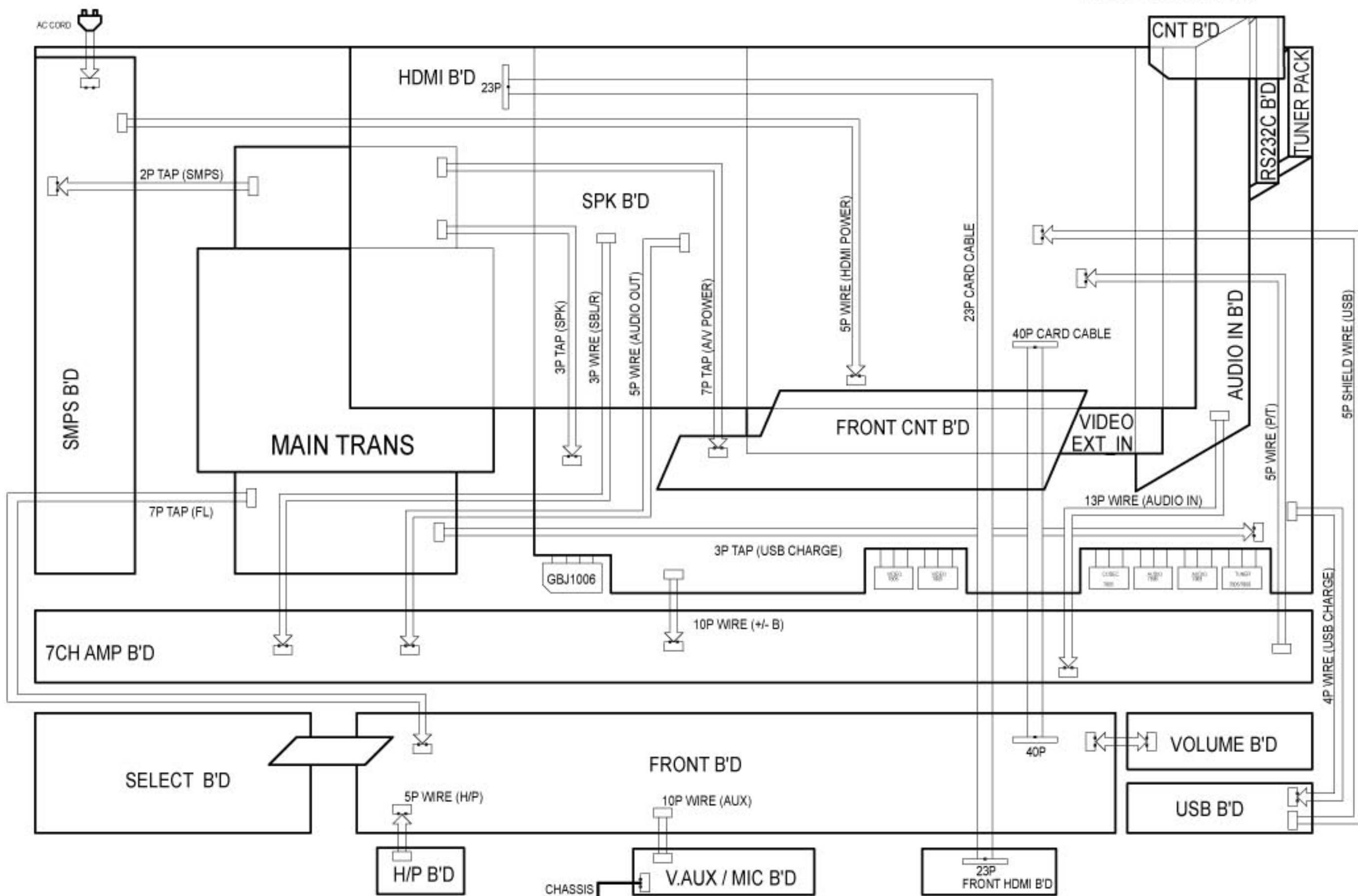


SCHEMATIC DIAGRAMS (26/27)
VIDEO F/CNT UNIT (2/3)

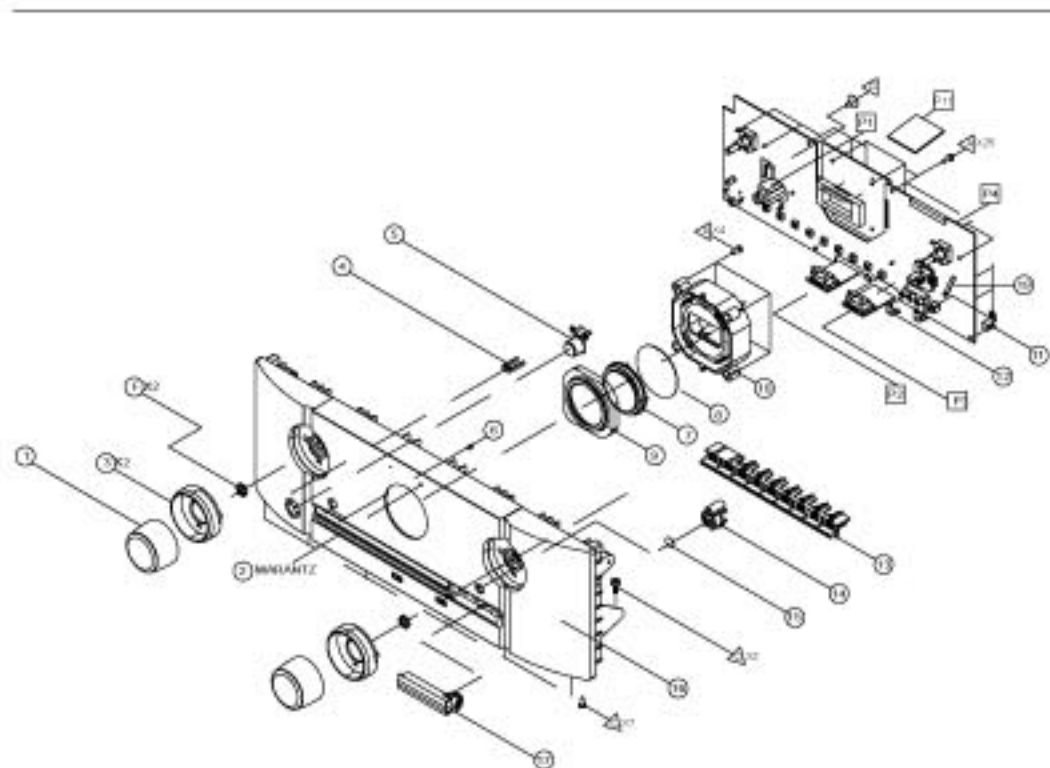
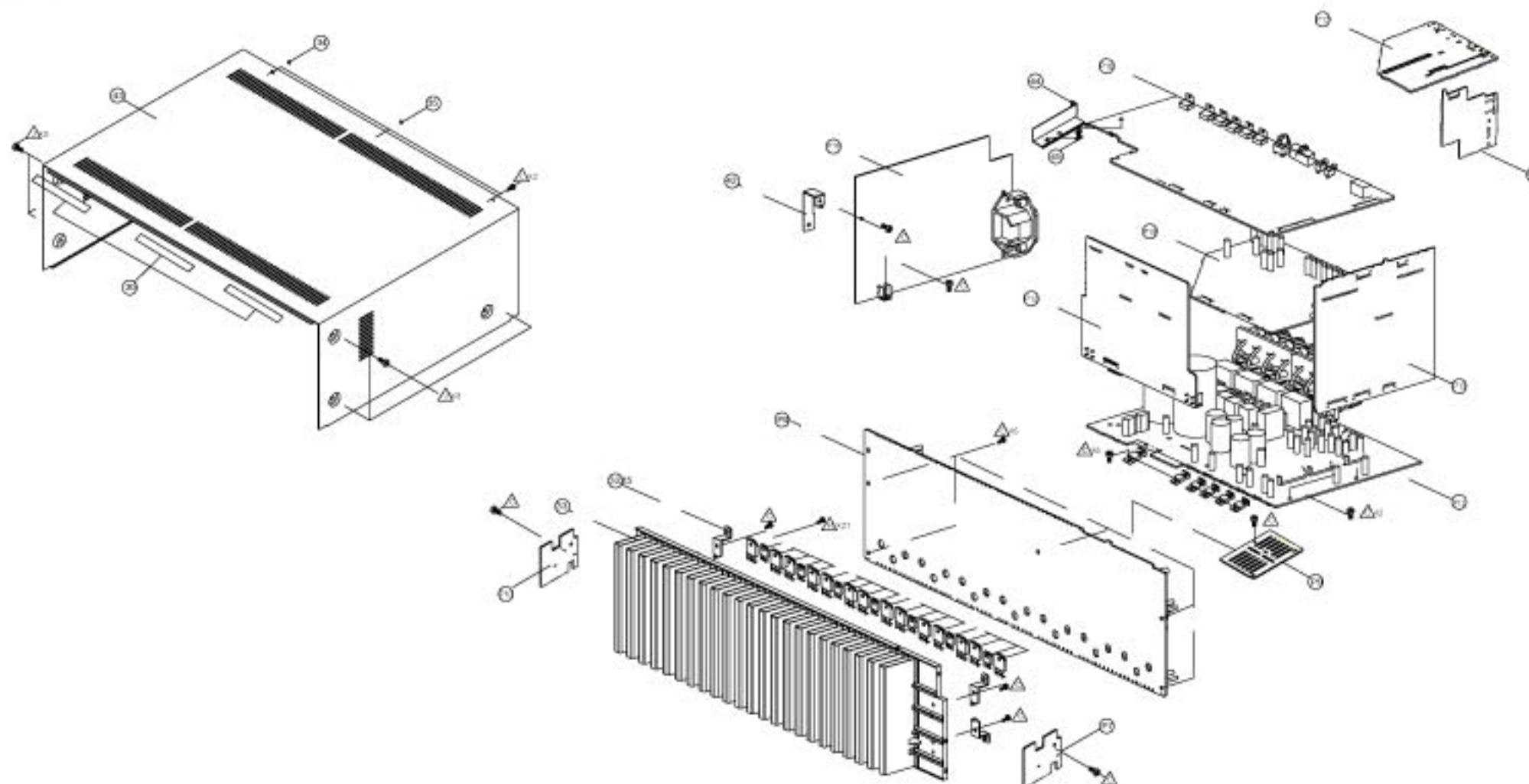
VIDEO_F/CNT 3/3

EXT_IN PART

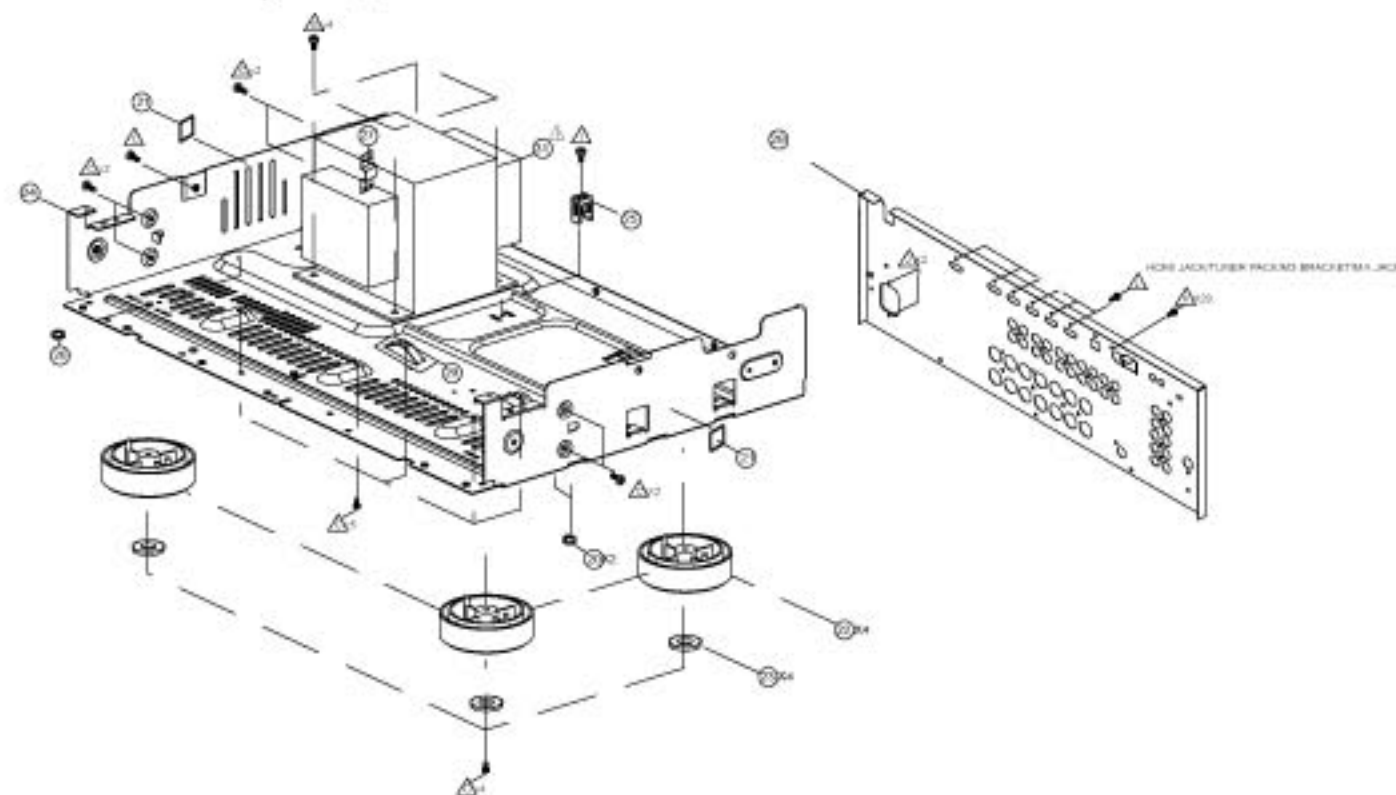




EXPLODED VIEW



SR5007 ALL



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

PARTS LIST OF EXPLODED VIEW

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

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

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

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

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

U1B : U.S.A. & Canada model

N1B : Europe model

K1B : China model

BK : Black model

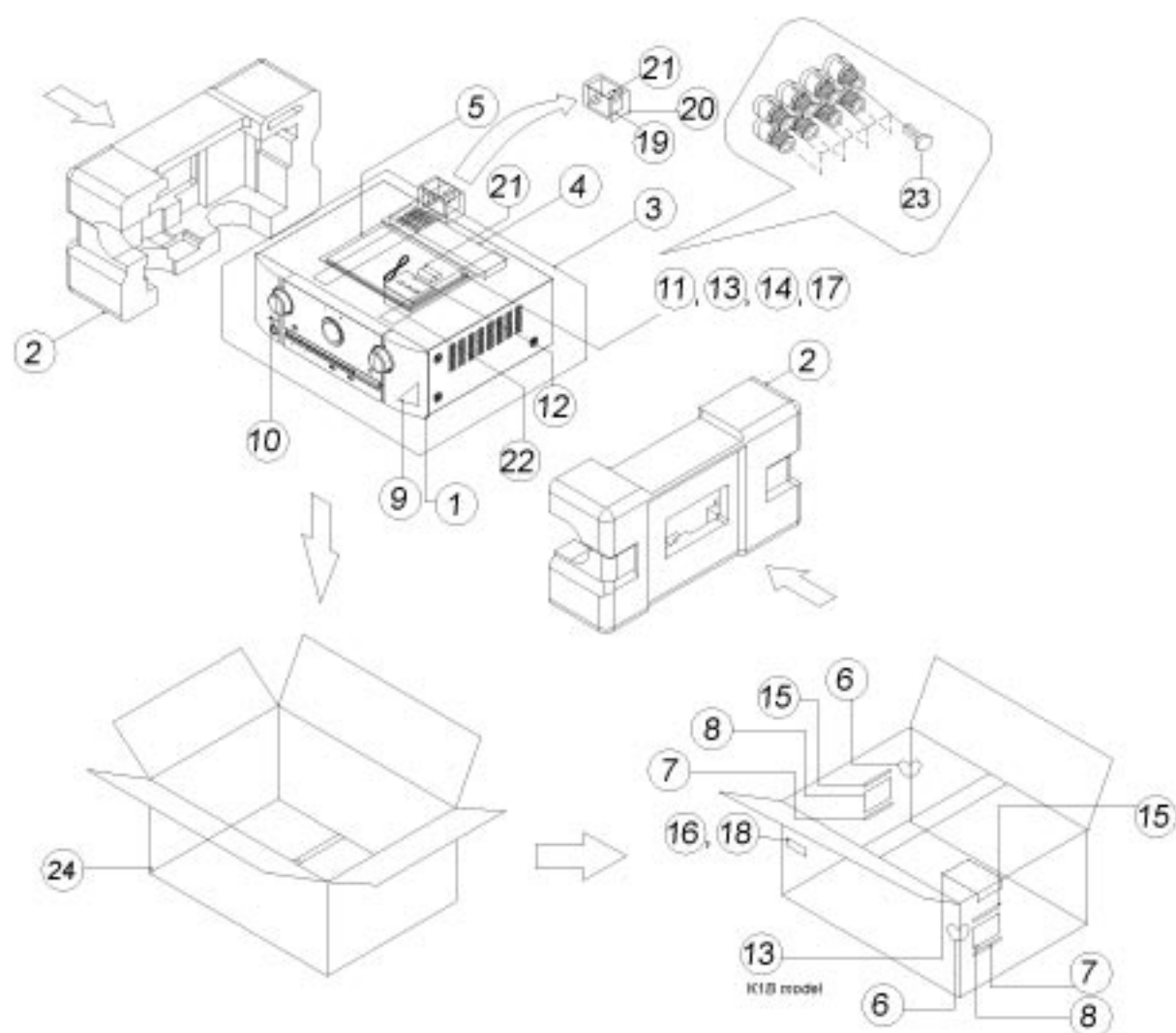
SP : Premium Silver model

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
P4A	nsp	FRONT PCB UNIT ASS'Y		7028072381010	1 *
P1	-	PCB H/P ASSY	-		
P3	-	PCB USB ASSY	-		
P4	-	PCB FRONT ASSY	-		
P7	-	PCB GUIDE R	-		
P9	-	PCB GUIDE TOP	-		
P10	-	PCB GUIDE L	-		
P11	-	PCB FH GUIDE	-		
P12A	nsp	MAIN PCB UNIT ASS'Y	U1B	7028071841040	1 *
P12A	nsp	MAIN PCB UNIT ASS'Y	N1B, N1SG	7028071841060	1 *
P12A	nsp	MAIN PCB UNIT ASS'Y	K1B	7028071841070	1 *
P12	-	PCB MAIN	-		
P18	-	PCB SMPS ASSY	U1B	-	
P18	-	PCB SMPS ASSY	N1B, K1B, N1SG	-	
P19A	nsp	VIDEO PCB UNIT ASS'Y		7028071861040	1 *
P14	-	PCB FRONT CNT	-		
P19	-	PCB VIDEO ASSY	-		
P15A	nsp	RS232 PCB UNIT ASS'Y	U1B, N1B, N1SG	7028071871020	1 *
P15A	nsp	RS232 PCB UNIT ASS'Y	K1B	7028071871030	1 *
P15	-	PCB RS232C ASSY	-		
P17	-	PCB RC5 MX	-		
P16A	8U6391003800M	PCB HDMI ASSY	U1B	7025HK1117015	1 *
P16A	8U6391004500M	PCB HDMI ASSY	N1B, N1SG	7025HK1117025	1 *
P16A	8U6391005000M	PCB HDMI ASSY	K1B	7025HK1117045	1 *
P2	-	PCB FRONT HDMI ASSY	-		
P16	-	PCB HDMI ASSY	-		
P8A	nsp	7CH_AMP PCB UNIT ASS'Y		70280694110T0	1
P8	-	PCB AMP ASSY	-		
P13A	nsp	INPUT PCB UNIT ASS'Y		7028071881040	1 *
P13	-	PCB INPUT	-		
1	963412100780M	VOLUME KNOB	U1B, N1B, K1B	5080212691000S	2
1	963412100790M	VOLUME KNOB	N1SG	5087212691100S	2
2	963421006200M	BADGE(MARANTZ) SILVER/GRAY		5630210678000S	1
3	943424100270M	DECORATION RING	U1B, N1B, K1B	5127210981000S	2
3	943424100280M	DECORATION RING	N1SG	5127210981100S	1
4	00M10BW355010	LENS POWER		3710211063000S	1

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New	
5	411510021005M	BUTTON POWER	U1B, N1B, K1B	5090213961000S	2	
5	963411012000M	BUTTON POWER	N1SG	5097213961100S	1	
6	943423100290M	LENS BUTTON		3070211183000S	2	
7	416510046009M	WINDOW CENTER SR7005 A332		5070213183000S	1	
8	416510047101M	WINDOW FILTER SR7005 A332		1217211562000S	1	
9	943424100250M	HOLDER WINDOW	U1B, N1B, K1B	4320211091000S	1	
9	943424100260M	HOLDER WINDOW	N1SG	4320211091100S	1	
10	nsp	DECORATION WINDOW		5120210991000S	1	
11	nsp	PLATE RCA		4470212216000S	1	
12	nsp	PLATE USB		4470212206000S	1	
13	943411101410M	BUTTON 9KEY	U1B, N1B, K1B	5097214711000S	1	
13	943411101420M	BUTTON 9KEY	N1SG	5097214711100S	1	
14	nsp	HOLDER REMOCON	U1B, N1B, K1B	4320211081000S	1	
14	nsp	HOLDER REMOCON	N1SG	4320211081000S	1	
15	481510019100M	LENS IR BL SR7005 A332		3710211173000S	1	
16	963402102470M	PANEL FRONT	U1B, N1B, K1B	3067215281200S	1 *	
16	963402102480M	PANEL FRONT	N1SG	3067215281300S	1 *	
17	943419100320M	COVER ASSY	U1B, N1B, K1B	4318215411010	1	
17	943419100330M	COVER ASSY	N1SG	4318215411110	1	
19	nsp	CLAMP		4330000310000S	1	
20	nsp	CUSHION SCREW		4050213025000S	3	
21	nsp	CUSHION SIDE		4050213095000S	2	
22	90M46BW056010	CUSHION FOOT		4050211175000S	4	
23	00M46BW057210	FOOT FRONT		4007210321000S	4	
24	nsp	CHASSIS MAIN		3200214266100S	1 *	
25	nsp	SUPPORTER PCB		4070001601010S	1	
27	nsp	SIDE BRACKET		4010210686000S	1	
28	nsp	CHASSIS BACK	U1B	3207214246400S	1 *	
28	nsp	CHASSIS BACK	N1B, N1SG	3207214246410S	1 *	
28	nsp	CHASSIS BACK	K1B	3207214246500S	1 *	
29	nsp	SHEET RATING CHASSIS (SEAL)		1210211909000S	1	
30	nsp	SHEET HIMELON		1210211629000S	3	
⚠	31	963101101570S	POWER TRANS	U1B	8200960680850S	1 *
⚠	31	963101101580S	POWER TRANS	N1B, N1SG	8200960680860S	1 *
⚠	31	963101101590S	POWER TRANS	K1B	8200960680870S	1 *
	32	nsp	BRACKET HEAT SINK		4010056906010S	1
	33	nsp	HEAT SINK		2120212048000S	1
	34	nsp	MASK		1210211362000S	1
	35	nsp	TOOTHED WASHER		1530210126000S	1
	42	nsp	BRACKET		4010214886000S	1
	43	963403100710D	CABINET TOP	U1B, N1B, K1B	3007212026000S	1
	43	963403100720D	CABINET TOP	N1SG	3007212026010S	1
	44	nsp	BRACKET HDMI		4010215226000S	1
	45	nsp	SUPPORTER(4.8mm)		4070211653000S	1
★	46	00D9630235204	TR 2SB1647Y	Q410, Q422, Q434, Q446, Q458, Q470, Q482	J5011647Y0170S	
★	47	963219003340S	TR 2SC KTC3964/TO126S-BULK	Q409, Q421, Q433, Q445, Q457, Q469, Q481	J502396400010S	
★	48	00D9630235301	TR 2SD2560Y	Q404, Q416, Q428, Q440, Q452, Q464, Q476	J5032560Y0170S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SCREWS					
A	nsp	SCREW +2S 3X10 B-TYPE ZNW/BH		B020030101B10S	29
C	nsp	SCREW +2S 3X8(ROUND BK/BH		B020230083B10S	50
	nsp	SCREW +2S 3X8(ROUND)(DA CHENG) BK/BH		B020230083B10D	- *
D	nsp	SCREW +2S 3X8 ZnY WASHER PI12		1500001456010S	1
G	nsp	SCREW +3S 4X10 P+S WASHER(ROUND)BK/BH		B028940101B11S	4
H	nsp	SCREW 2S 3X14 P(Φ6)+S-WASHER ZNY/HH		B018230141H11S	21
	nsp	SCREW +2S 3X14 P(Φ6)+S-WASHER ZNY/HH		B018230141H11D	- *
I	nsp	SCREW +2S 3X17 B-TYPE(DA CHENG) BK/BH		B020030171B10S	1
J	nsp	SCREW +2S 4X8 B-TYPE(DOT)(DACHENG) BK/BH		1500040083B10S	8
K	nsp	SCREW +2S 3X10 B-TYPE(DOT) BK/BH		B020030103B11S	27
L	nsp	SCREW +3S 3X6(DOT)CBTS(S)-B		B020930063B10S	12

PACKING VIEW



PARTS LIST OF PACKING & ACCESSORIES

*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.

U1B : U.S.A. & Canada model

N1B : Europe model

K1B : China model

BK : Black model

SP : Premium Silver model

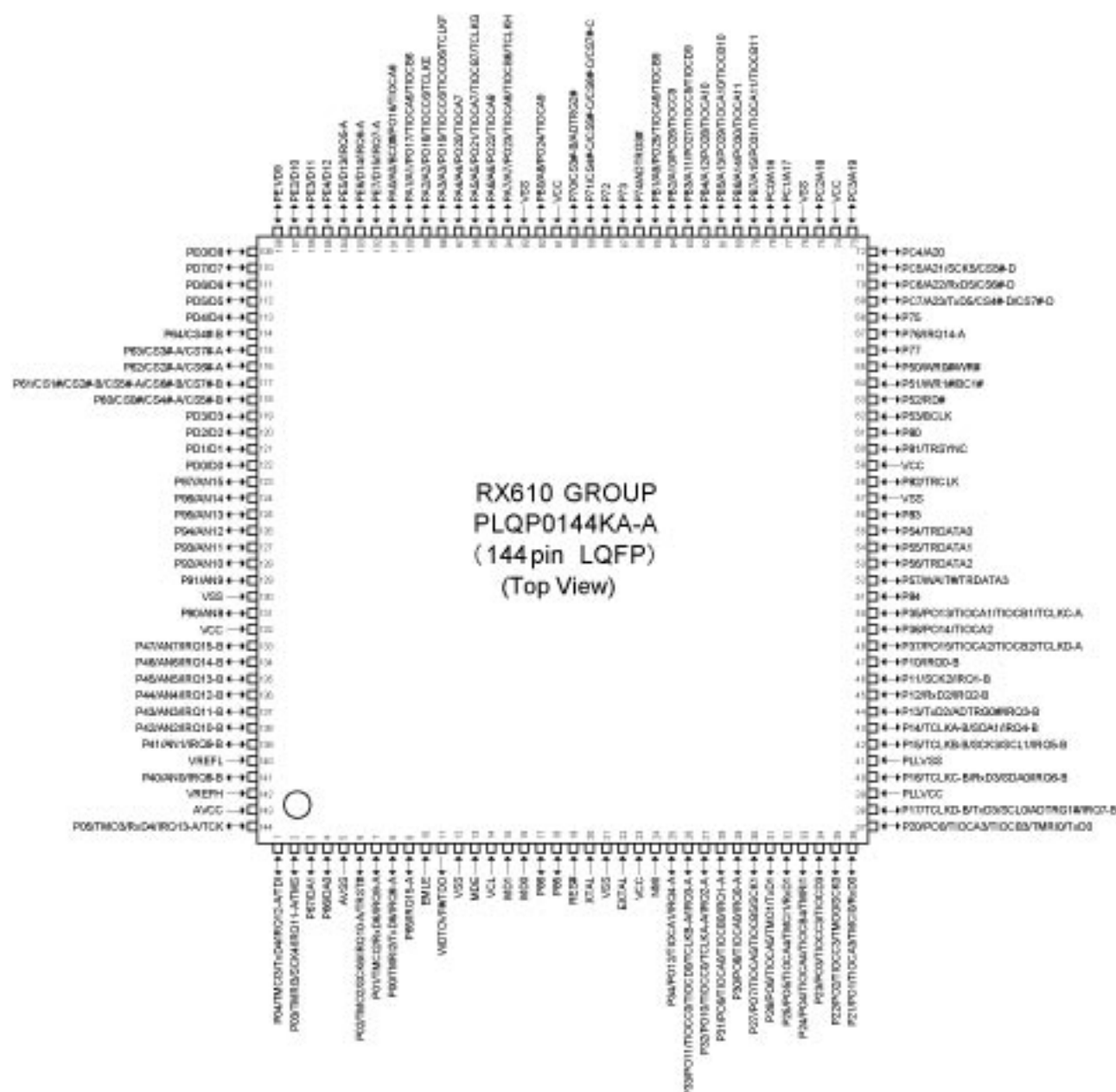
Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
1	-	set		-		
2	963533101180M	CUSHION SNOW L/R		6230213204000S	1	*
3	nsp	PE SHEET		6327040059000S	1	
4	30701009900AM	REMOCON		8300017000010S	1	*
5	nsp	POLY BAG		6337000240010S	1	
6	nsp	LABEL COLOR	N1SG	5507000004600S	1	
7	nsp	LABEL MAC ADDRESS		5507000009700S	1	
8	nsp	SHIPPING LABEL		5500000007770S	1	
9	nsp	POP LABEL	U1B, N1B, N1SG	5507000009640S	1	*
9	nsp	POP LABEL	K1B	-	1	*
10	nsp	LABEL(POWER S/W)	K1B	5507000005270S	1	
11	54111078900AM	GETTING STARTED	U1B	5707000007240S	1	*
11	54111079100AM	GETTING STARTED	N1B, N1SG	5707000007250S	1	*
11	54111079200AM	GETTING STARTED	K1B	5707000007260S	1	*
12	35201009600AM	DISK CD MANUAL	U1B	6517000000980S	1	*
12	35201009700AM	DISK CD MANUAL	N1B, N1SG	6517000000990S	1	*
12	35201009800AM	DISK CD MANUAL	K1B	6517000001000S	1	*
13	nsp	WARRANTY CARD	U1B	5727000000111S	1	
13	nsp	WARRANTY CARD	K1B	5727000000310S	1	
14	nsp	CARD WARRANTY(CANADA)		5727041650142S	1	
15	nsp	LABEL OLD GOST	N1B, N1SG	5507000005560S	1	
16	nsp	LAST FM LABEL	N1B, N1SG	5507000009900S	1	
17	nsp	CARD Pass	K1B	5777000000020S	1	
18	nsp	SIRIUS XM LABEL	U1B	5507000009890S	1	*
19	32401000600AD	MIC CONDENSER	ACM1HB	M040000310080S	1	
20	nsp	POLY BAG ACCESSORY		6330210222000S	1	
21	nsp	BATTERY, DRY		G670001R50240S	2	
22	963116100080S	ANTENNA, WIRE		E605010140010S	1	
23	nsp	BUSHING TERMINAL		2410040353010S	14	
24	963531102520M	BOX, GIFT		6007212150040S	1	*
★ 25	90M-ZC000470R	CORD ASSY	U1B	L068125130010S	1	
★ 25	90M-ZC000600R	CORD ASSY	N1B, N1SG	L068250160020S	1	
★ 25	963611004880S	CORD ASSY	K1B	L068250100050S	1	
★ 26	544510081006M	LABEL HOT-SURFACE		5507000003730S	1	

SEMICONDUCTORS

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

1. IC's

R5F56108VNFP (HDMI : U3002)



R5F56108VNFP Terminal Functions

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
1	P04/IRQ12-A/TMC13/ Tx/D4/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	L	TC74VHC4051AFT control pin. (Control the detection of HDMI 5V INPUT for CEC STANDBY.)
4	P66/DA0	HIN SELB	O	-	-	L	L	L	TC74VHC4051AFT control pin. (Control the detection of HDMI 5V INPUT for CEC STANDBY.)

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
5	AVSS	AVSS	-	-	-	-	-	-	GND
6	P02/IRQ10-A/TMO2/ SCK8/TRST#	NC	I	Pd	-	I	I	I	NC
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	-	-	L	L	H	Reserve (CEC POWER2 control)
18	P85	REMOTE POWER(232C)	O	-	-	L	L	L	232C POWER SUPPLY (REMOTE 3.3V) control pin.(ON: H)
19	RES#	RESET	I	-	-	-	-	-	Reset input (reset: L)
20	XTAL	XTAL	I	-	-	-	-	-	Clock input
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	PLDAERR	I	-	-	L	L	L	PLD ERROR detection pin
27	P32/IRQ2-A/PO10/ TIOCC0/TCLKA-A	FLASHER IN (U Only)	I	-	-	I	I	I	FLASHER (RC-5) input pin (NR1603 : U Version Only , SR5007 : All Version)
28	P31/IRQ1-A/PO9/ TIOCA0/TIOCB0	ADV8002 (NR1603) or ADV8003 (SR5007) INT1	I	-	-	I	I	I	HDMI transmitter / OSD (NR1603=ADV8002/ SR5006=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	HDMI A SEL	O	-	-	L	L	L	TC74VHCT244AFT control pin. (Control the HDMI Audio Input. H : DSP signal path / L : HDMI Rx -> Tx)
31	P26/PO6/TIOCA5/ TMO1/TxD1	RC OUT	O	-	-	H	L	H	RC-5 CODE output pin
32	P25/PO5/TIOCA4/ TMC11/RxD1	KILL IR	O	-	-	L	L	L	RC input Disable/Enable 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	-/-	-	I	I	I	ETHERNET communication control pin (DM860)
37	P20/PO0/TIOCA3/ TIOCB3/TMR10/TxD0	E_TXDMOEI	O	-/-	-	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

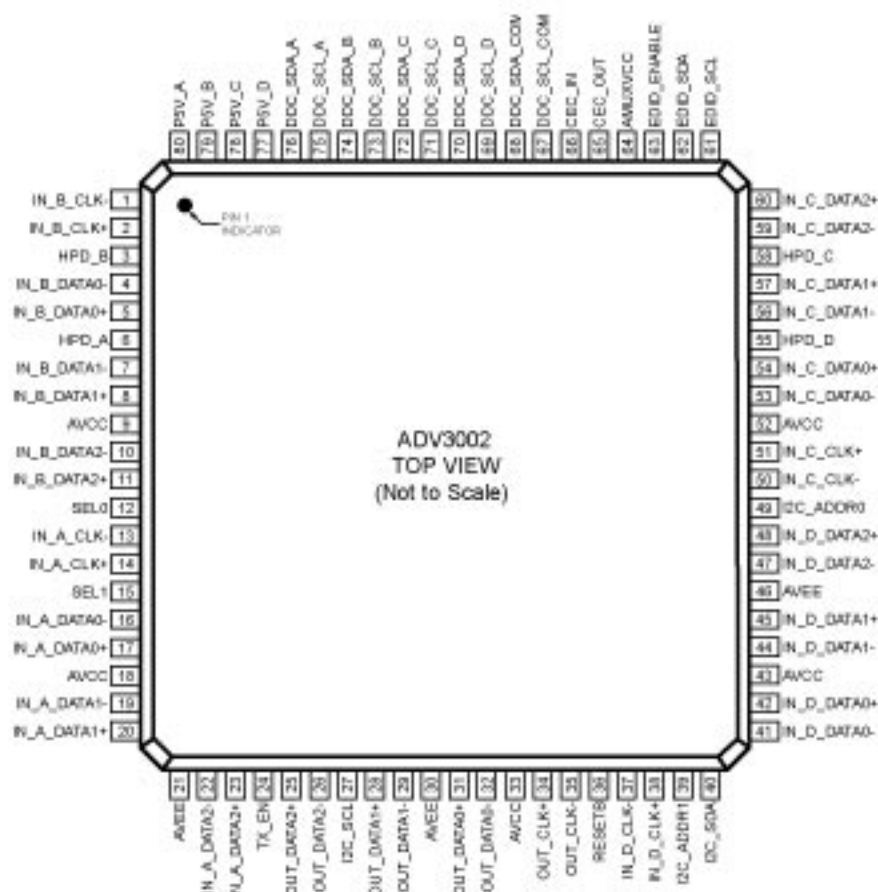
Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
39	PLLVC	PLLVC	-	-	-	-	-	-	+3.3V
40	P16/IRQ6-B/TCLKC-B/ RxD3/SDA0	TU SDIO	I_O	-	-	L	L	L	TUNER control pin
41	PLLVS	PLLVS	-	-	-	-	-	-	GND
42	P15/IRQ5-B/TCLKB-B/ SCK3/SCL1	HSCL (400k)	O	CEC3VPu	-	L	L	L	VIDEO I2C Control for - HDMI SW (ADV3002) / HDMI RX , A to H Decoder (ADV7850) / HDMI Ip Scaler , TX (ADV8002 or 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 (ADV8002 or ADV8003)
44	P13/IRQ3-B/TxD2/ ADTRG0#	ADV8002 (NR1603) or ADV8003 (SR5007) SPI MO	O	-	-	L	L	L	OSD control pin (ADV8002 or ADV8003)
45	P12/IRQ2-B/RxD2	ADV8002 (NR1603) or ADV8003 (SR5007) SPI MI	I	-	-	L	L	L	OSD control pin (ADV8002 or ADV8003)
46	P11/IRQ1-B/SCK2	ADV8002 (NR1603) or ADV8003 (SR5007) SPI CLK	O	-	-	L	L	L	OSD control pin (ADV8002 or ADV8003)
47	P10/IRQ0-B	ADV8002 (NR1603) or ADV8003 (SR5007) SPI CS	O	-	-	L	L	L	OSD control pin (ADV8002 or ADV8003)
48	P37/PO15/TIOCA2/ TIOCB2/TCLKD-A	EEPROM SDA	I_O	M3VPu	-	I	I	I	EEPROM control pin
49	P36/PO14/TIOCA2	EEPROM SCL	O	M3VPu	-	I	I	I	EEPROM control pin
50	P35/PO13/TIOCA1/ TIOCB1/TCLKC-A	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/WR1#/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	ADV8002 (NR1603) or ADV8003 (SR5007) 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 A	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 (NJM2586M)
64	P51/WR1#/BC1#	PSAVE	O	-	3->5	L	L	L	A-VIDEO (COMPONENT) switcher control pin (NJM2586M) (H=Output Enable / L=Output Disable)

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
65	P50/WR0#/WR#	VIN C	O	-	3->5	L	L	L	A-VIDEO (CVBS) switcher control pin (MM74HC4051MX)
66	P77	VIN B	O	-	3->5	L	L	L	A-VIDEO (CVBS) switcher control pin (MM74HC4051MX)
67	P76/IRQ14-A	TU GPIO2_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	L	H	POWER/STANDBY LED control pin (ON:H)
79	PB7/A15/PO31/ TIOCA11/TIOCB11	H/P RLY	O	-	-	L	L	L	HEADPHONE RLY control pin
80	PB6/A14/PO30/ TIOCA11	FRONT RLY	O	-	-	L	L	L	FRONT Ch RELAY control pin
81	PB5/A13/PO29/ TIOCA10/TIOCB10	HIN SELC	O	-	-	L	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 RLY	O	-	-	L	L	L	CENTER/SURROUND Ch RELAY control pin
84	PB2/A10/PO26/ TIOCC9	SB RLY	O	-	-	L	L	L	SURROUND-BACK Ch RELAY control pin
85	PB1/A9/PO25/ TIOCA9/TIOCB9	D5V POWER	O	-	-	L	L	L	DIGITAL POWER SUPPLY (D3.3V) control pin (ON:H)
86	P74/ADTRG3#	DIR CE	O	-	-	L	L	L	DIR control pin (LC89058W-E)
87	P73	DIR DIN	O	-	-	L	L	L	DIR control pin (LC89058W-E)
88	P72	DIR DOUT	I	DA3VPu	-	I	I	I	DIR control pin (LC89058W-E)
89	P71/CS4#-C/CS5#-C/ CS6#-C/CS7#-C	DIR CLK	O	-	-	L	L	L	DIR control pin (LC89058W-E)
90	P70/CS3#-B/ ADTRG2#	DIR RST	O	-	-	L	L	L	DIR RESET pin (LC89058W-E)
91	VCC	VCC	-	-	-	-	-	-	+3.3V
92	PB0/A8/PO24/TIOCA9	COMP SW2	O	-	3->5	L	L	L	A-VIDEO (COMPONENT) switcher control pin (NJM2586M)
93	VSS	VSS	-	-	-	-	-	-	GND
94	PA7/A7/PO23/ TIOCA8/TIOCB8/ TCLKH	FIL_CTRL (SR5007 Only)	O	-/-	-	L	L	L	FLD Filament voltage on/off pin (SR5007 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	E POWER 2 (Reserve)	O	-/-	-	L	L	L	Unused
98	PA3/A3/PO19/ TIOCC6/TIOCD6/ TCLKF	DAC(ETHER) MUTE	O	-	-	L	L	L	DAC (ETHER) MUTE control pin (PCM5100 for DM860)

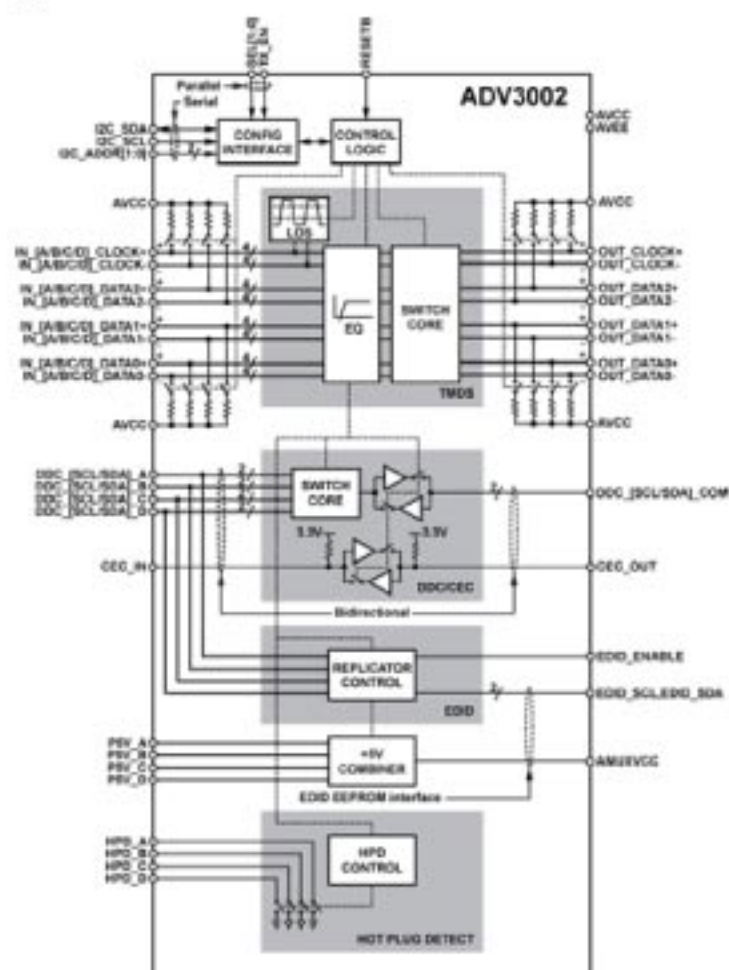
Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
99	PA2/A2/PO18/ TIOCC6/TC1KE	PRE Z2 MUTE	O	-	-	L	L	L	Z2 PRE OUT MUTE control pin (SR5006 Only)
100	PA1/A1/PO17/ TIOCA6/TIOCB6	NC	O	-	-	L	L	L	Unused
101	PA0/A0/BC0W/PO16/ TIOCA6	PRE MUTE	O	-	-	L	L	L	PRE OUT MUTE control pin
102	PE7/IRQ7-A/D15	ADV8002 (NR1603) or ADV8003 (SR5007) INT2	I	-	-	I	I	I	HDMI TX INT2 input pin (ADV8002 or 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	-	-	L	L	L	Input Selector rotation detection pin(Rotary encoder)
106	PE3/D11	ISEL B	I	-	-	L	L	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	ADC RST	O	-	-	L	L	L	A/D converter control pin (AK5358B)
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#-B/CS2#-B/ CS5#-A/CS6#-B/ CS7#-B	DAC MS	O	-	-	L	L	L	D/A converter control pin (AK4358VQ)
118	P60/CS0#-A/CS4#-A/ CS5#-B	DAC RST	O	-	-	L	L	L	D/A converter control pin (AK4358VQ)
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	H	HDMI CEC POWER SUPPLY (CEC5V & CEC3.3V & CEC1.8V) control pin. (ON:H)
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)

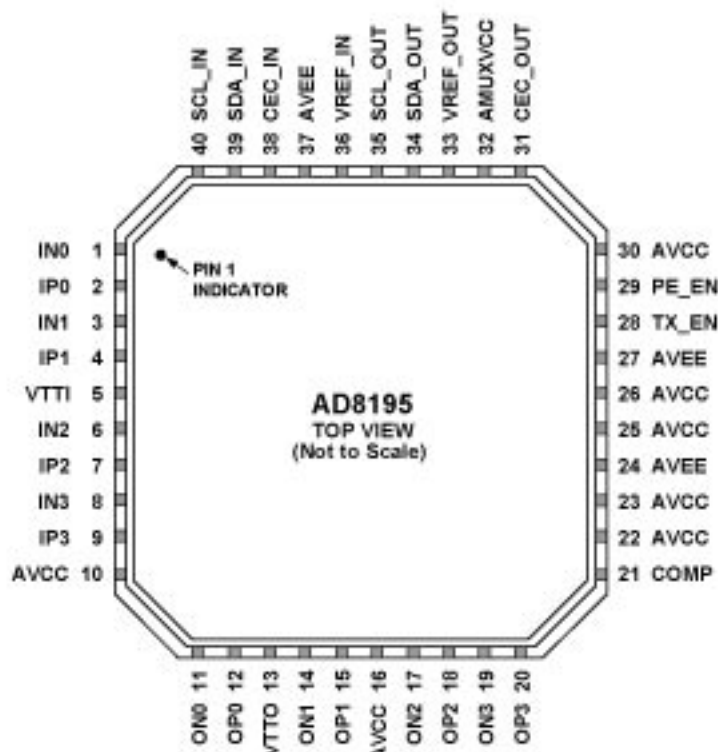
Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
129	P91/AN9	TX EN	O	-	-	L	L	L	Front HDMI INPUT (AD8195) control pin
130	VSS	VSS	-	-	-	-	-	-	GND
131	P90/AN8	MODE	I	-	-	I	I	I	Destination detection pin
132	VCC	VCC	-	-	-	-	-	-	+3.3V
133	P47/IRQ15-B/AN7	THERMAL B/ DC DET/ASO	I	-	-	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	HDMI IN 5V SET	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/ Rx/D4/TCK	NC	I	M3VPu	-	I	I	I	NC

ADV3002BSTZ (HDMI : U1001)



ADV3002BSTZ Block diagram





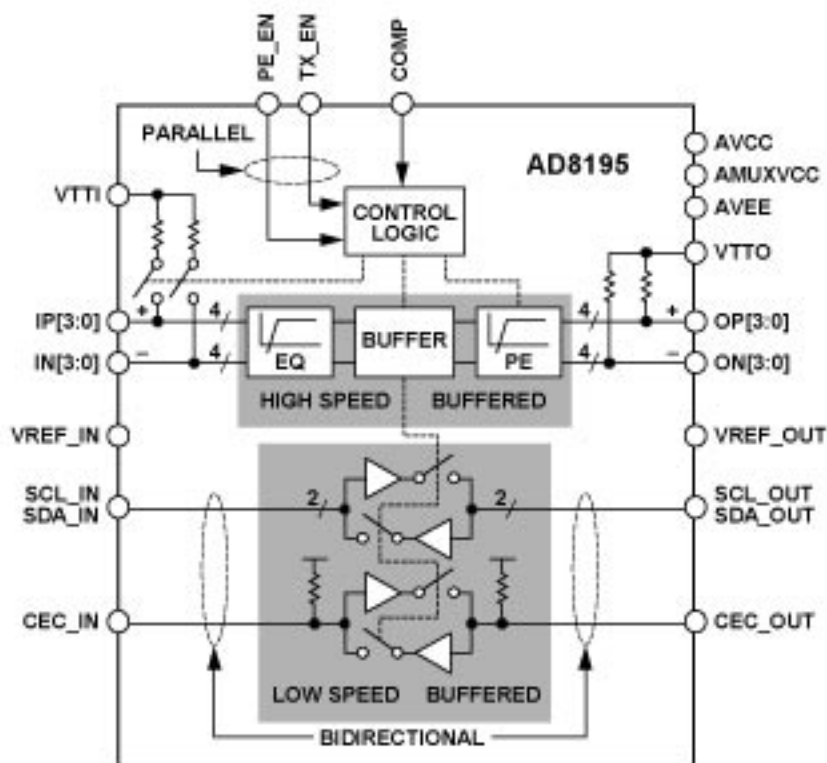
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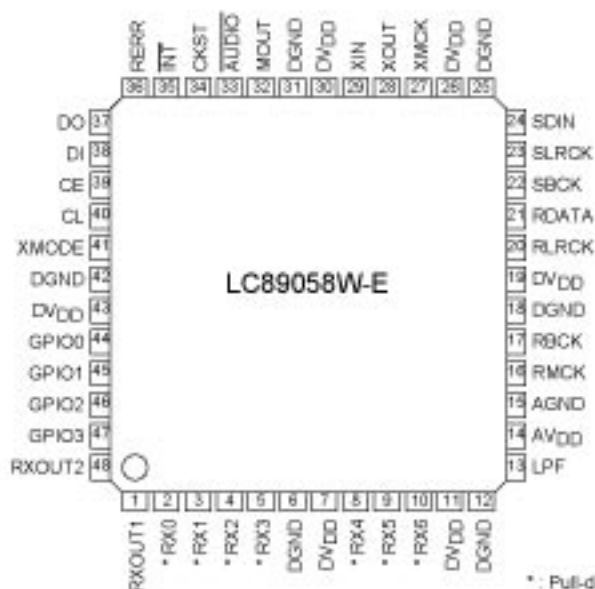
1. THE AD8195 LFCSP HAS AN EXPOSED PAD ON THE UNDERSIDE OF THE PACKAGE THAT AIDS IN HEAT DISSIPATION. THE PAD MUST BE ELECTRICALLY CONNECTED TO THE AVEE SUPPLY PLANE IN ORDER TO MEET THERMAL SPECIFICATIONS.

07040-003

AD8195ACPZ Terminal Function

Pin No.	Mnemonic	Type ¹	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 μ F 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.





*: Pull-down resistor internal at no selection

Pin Functions

Pin No.	Name	I/O	Function
1	RXOUT1	O	RX0-6 input SiPDIF through output pin 1
2	RX0	I ₁ (pd)	5V withstand voltage TTL input level compatible SiPDIF input pin (connected to GND when RX1 is set)
3	RX1	I(p)	Co-axial compatible SiPDIF input pin (supported demodulation sampling frequency of up to 96kHz)
4	RX2	I ₁ (pd)	5V withstand voltage TTL input level compatible SiPDIF input pin (connected to GND when RX1 is set)
5	RX3	I ₁ (pd)	5V withstand voltage TTL input level compatible SiPDIF input pin
6	DGND		Digital GND
7	DVDD		Digital power supply (3.3V)
8	RX4	I ₁ (pd)	5V tolerable TTL input level compatible SiPDIF input pin
9	RX5	I ₁ (pd)	5V tolerable TTL input level compatible SiPDIF input pin
10	RX6	I ₁ (pd)	5V tolerable TTL input level compatible SiPDIF input pin
11	DVDD		Digital power supply (3.3V)
12	DGND		Digital GND
13	LPF	O	PLL loop filter connection pin
14	AVDD		Analog power supply (3.3V)
15	AGND		Analog GND
16	RMCK	O	R system clock output pin (VCO, 512fs, 30N)
17	RBCK	O/I	R system bit clock I/O pin (64fs)
18	DGND		Digital GND
19	DVDD		Digital power supply (3.3V)
20	RLRCK	O/I	R system LR clock I/O pin (fs)
21	RDATA	O	Serial audio data output pin
22	SBCK	O	S system bit clock output pin (16fs, 32fs, 64fs, 128fs)
23	SLRCK	O	S system LR clock output pin (fs/4, fs/2, fs, 2fs)
24	SDIN	I ₁	External serial audio data input pin

Pin No.	Name	I/O	Function
25	DGND		Digital GND
26	DVDD		Digital power supply (3.3V)
27	XMCK	O	Oscillation amplifier clock output pin
28	XOUT	O	Output pin connected to the resonator
29	XIN	I	External clock input pin, connected to the resonator (12.288MHz/26.576MHz)
30	DVDD		Digital power supply
31	DGND		Digital GND
32	MOUT	I/O	Emphasis information Input fs monitor output Chip address setting input pin
33	AUDIO	I/O	Channel status bit 1 output Chip address setting input pin
34	CKST	I/O	Clock switching transition period signal output Master/slave setting input pin
35	INT	I/O	Microcontroller interrupt signal output Pins44-48 I/O setting input pin
36	RERR	O	PLL lock error, data error flag output pin
37	DO	O	CCB microcontroller I/F, read data output pin (3-state)
38	DI	I _b	CCB microcontroller I/F, write data input pin
39	CE	I _b	CCB microcontroller I/F, chip enable input pin
40	CL	I _b	CCB microcontroller I/F, clock input pin
41	XMODE	I _b	System reset input pin
42	DGND		Digital GND
43	DVDD		Digital power supply (3.3V)
44	GPIO0	O/I	General-purpose I/O pin Selector input pin (output referred to RDATA pin)
45	GPIO1	O/I	General-purpose I/O pin Selector input pin (output referred to RLCK pin)
46	GPIO2	O/I	General-purpose I/O pin Selector input pin (output referred to RBCK pin)
47	GPIO3	O/I	General-purpose I/O pin Selector input pin (output referred to RMCK pin)
48	RXOUT2	O	RX0-6 input SPDIF through output pin 2

* Input voltage: I₁ = -0.3 to 3.6V, I₂ = -0.3 to 5.5V

* Output voltage: O = -0.3 to 3.6V

* Pins 2, 4, 5, 8, 9, 10, 24, 38, 39, 40, and 41 have an internal pull-down resistor (pd).

Their level is fixed when they are unselected.

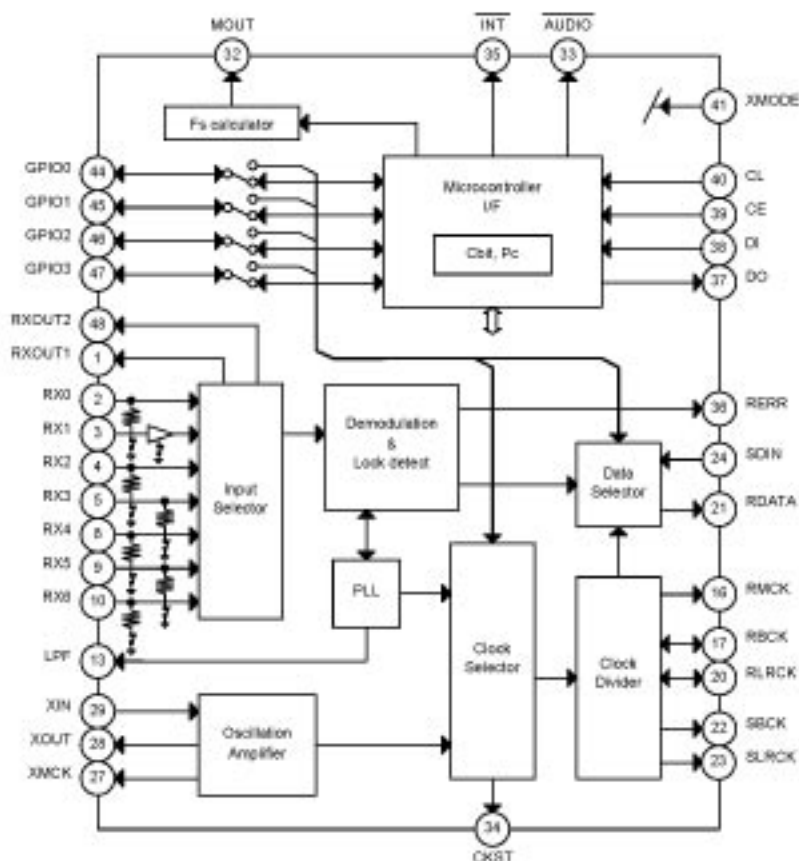
* Pins 32 and 33 are input pins for chip address setting when pin 41 is held at the low level.

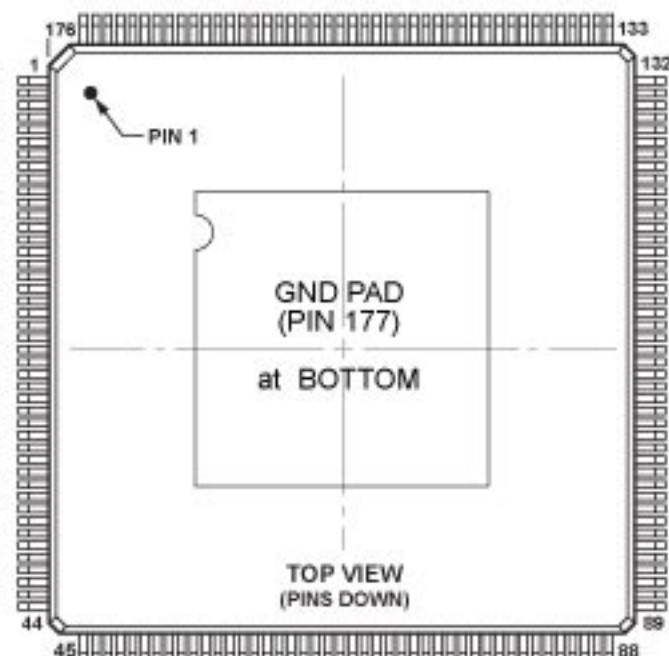
* Pin 34 serves as the input pin for designating as the master or slave when pin 41 is held at the low level.

* Pin 35 serves as the input pin for configuring the I/O of pins 44 to 47 when pin 41 is held at the low level.

* The DVDD and AVDD pins must be held at the same level and turned on and off at the same timing to preclude Latch-up conditions.

LC89058W-E Block diagram





ADSP21487KSWZ3B Terminal Function

Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.
SDDOM	1	V _{DD_SIF}	45	DAI_P10	89	V _{DD_SIF}	133
WSS	2	DPL_P08	46	V _{DD_P11}	90	FLAG0	134
SDCKE	3	DPL_P07	47	V _{DD_LIF}	91	FLAG1	135
V _{DD_SIF}	4	V _{DD_P12}	48	DAI_P20	92	FLAG2	136
CLK_CFG1	5	DPL_P09	49	V _{DD_P13}	93	NC	137
ADDR0	6	DPL_P10	50	DAI_P08	94	FLAG3	138
BOOT_CFG0	7	DPL_P11	51	DAI_P14	95	NC	139
V _{DD_LIF}	8	DPL_P12	52	DAI_P04	96	NC	140
ADDR1	9	DPL_P13	53	DAI_P18	97	V _{DD_LIF}	141
ADDR2	10	DPL_P14	54	DAI_P17	98	NC	142
ADDR3	11	DAI_P03	55	DAI_P16	99	V _{DD_P14}	143
ADDR4	12	NC	56	DAI_P12	100	TRST	144
ADDR5	13	V _{DD_SIF}	57	DAI_P15	101	NC	145
BOOT_CFG1	14	NC	58	V _{DD_P15}	102	EMU	146
GND	15	NC	59	DAI_P11	103	DATA0	147
ADDR6	16	NC	60	V _{DD_SIF}	104	DATA1	148
ADDR7	17	NC	61	V _{DD_P16}	105	DATA2	149
NC	18	V _{DD_P17}	62	BOOT_CFG2	106	DATA3	150
NC	19	NC	63	V _{DD_P17}	107	TDO	151
ADDR8	20	NC	64	AMI_ACK	108	DATA4	152
ADDR9	21	V _{DD_P18}	65	GND	109	V _{DD_P18}	153
CLK_CFG0	22	NC	66	THD_M	110	DATA5	154
V _{DD_SIF}	23	NC	67	THD_P	111	DATA6	155
CLKIN	24	V _{DD_P19}	68	V _{DD_THD}	112	V _{DD_P19}	156
XTAL	25	NC	69	V _{DD_P20}	113	DATA7	157
ADDR10	26	WDTRST0	70	V _{DD_P21}	114	TDI	158
SDA10	27	NC	71	MST	115	SDCLK	159
V _{DD_LIF}	28	V _{DD_SIF}	72	V _{DD_P22}	116	V _{DD_P20}	160
V _{DD_SIF}	29	DAI_P07	73	WDT_CLK0	117	DATA8	161
ADDR11	30	DAI_P13	74	WDT_CLKIN	118	DATA9	162
ADDR12	31	DAI_P19	75	V _{DD_LIF}	119	DATA10	163
ADDR17	32	DAI_P01	76	ADDR23	120	TCX	164
ADDR13	33	DAI_P02	77	ADDR22	121	DATA11	165
V _{DD_SIF}	34	V _{DD_P20}	78	ADDR21	122	DATA12	166
ADDR18	35	NC	79	V _{DD_P21}	123	DATA14	167
RESETOUT/RUNRSTIN	36	NC	80	ADDR20	124	DATA13	168
V _{DD_SIF}	37	NC	81	ADDR19	125	V _{DD_P22}	169
DPL_P01	38	NC	82	V _{DD_SIF}	126	DATA15	170
DPL_P02	39	NC	83	ADDR16	127	SDWE	171
DPL_P03	40	V _{DD_LIF}	84	ADDR15	128	SDRAS	172
V _{DD_SIF}	41	V _{DD_P21}	85	V _{DD_P22}	129	RESET	173
DPL_P05	42	DAI_P06	86	ADDR14	130	TMS	174
DPL_P04	43	DAI_P05	87	AMI_WR	131	SDCAS	175
DPL_P06	44	DAI_P09	88	AMI_RD	132	V _{DD_P22}	176
						GND	177*

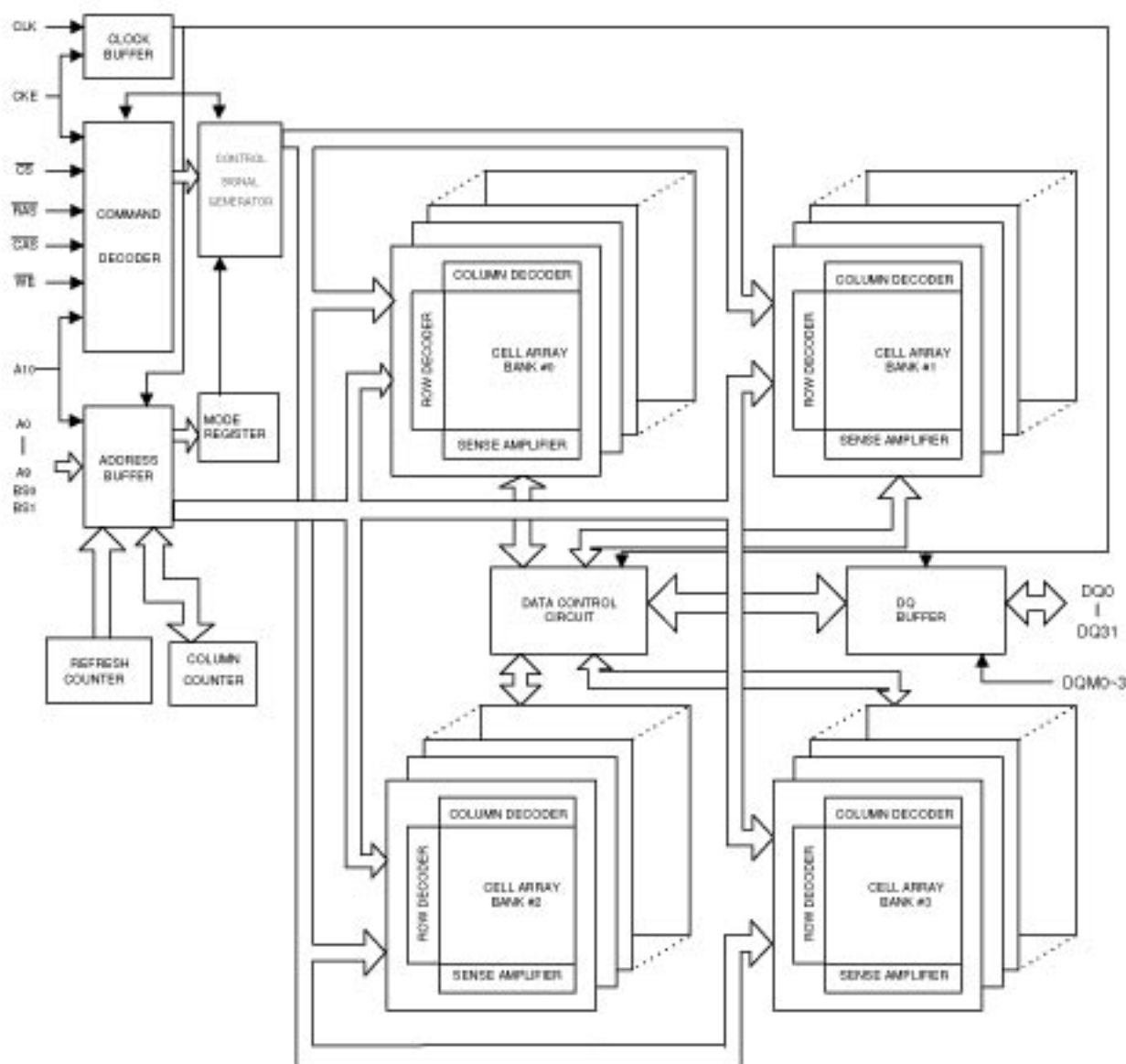
* at BOTTOM

VDD	1	86	VSS
DQ0	2	85	DQ15
VDDA	3	84	VSSA
DQ1	4	83	DQ14
DQ2	5	82	DQ13
VSSA	6	81	VDDA
DQ3	7	80	DQ12
DQ4	8	79	DQ11
VDDA	9	78	VSSA
DQ5	10	77	DQ10
DQ6	11	76	DQ9
VSSA	12	75	VDDA
DQ7	13	74	DQ8
NC	14	73	NC
VDD	15	72	VSS
DQM0	16	71	DQM1
WE	17	70	NC
CAS	18	69	NC
RAS	19	68	CLK
CS	20	67	CKE
NC	21	66	A9
BS0	22	65	A8
BS1	23	64	A7
A10/AP	24	63	A6
A0	25	62	A5
A1	26	61	A4
A2	27	60	A3
DQM2	28	59	DQM3
VDD	29	58	VSS
NC	30	57	NC
DQ16	31	56	DQ31
VSSA	32	55	VDDA
DQ17	33	54	DQ30
DQ18	34	53	DQ29
VDDA	35	52	VSSA
DQ19	36	51	DQ28
DQ20	37	50	DQ27
VSSA	38	49	VDDA
DQ21	39	48	DQ26
DQ22	40	47	DQ25
VDDA	41	46	VSSA
DQ23	42	45	DQ24
VDD	43	44	VSS

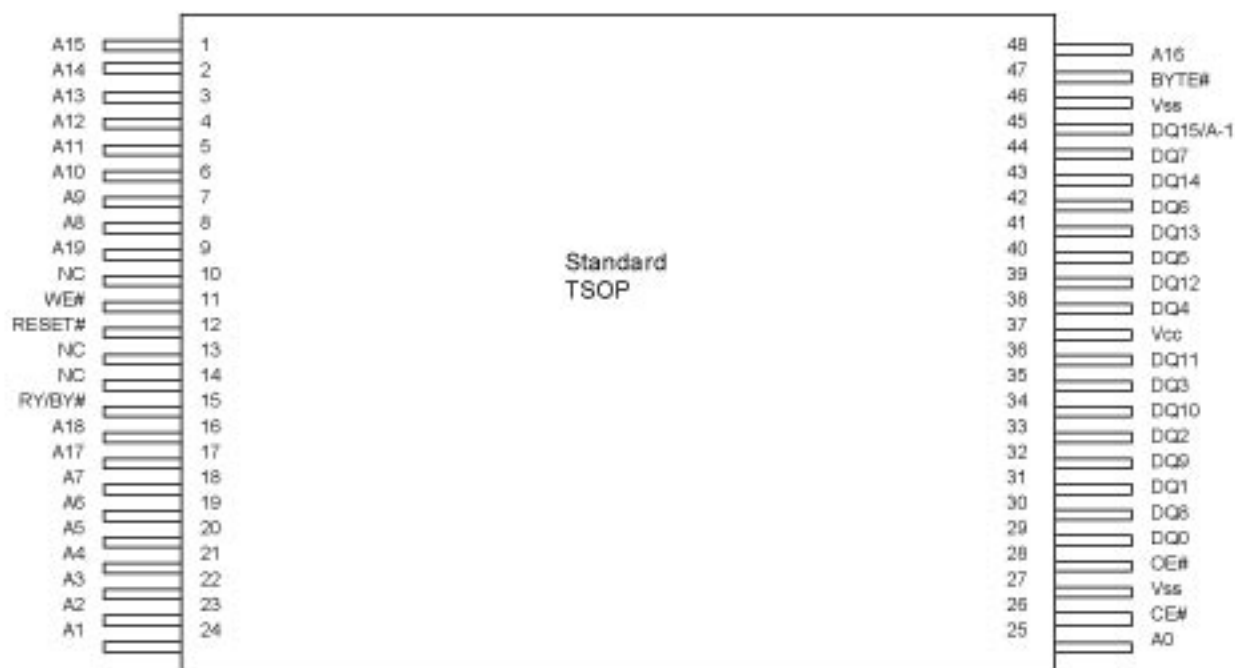
W9864G6JH-6 Pin description

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	$\overline{\text{CS}}$	Chip Select	Disable or enable the command decoder. When command decoder is disabled, new command is ignored and previous operation continues.
19	$\overline{\text{RAS}}$	Row Address Strobe	Command input. When sampled at the rising edge of the clock $\overline{\text{RAS}}$, $\overline{\text{CAS}}$ and $\overline{\text{WE}}$ define the operation to be executed.
18	$\overline{\text{CAS}}$	Column Address Strobe	Referred to $\overline{\text{RAS}}$
17	$\overline{\text{WE}}$	Write Enable	Referred to $\overline{\text{RAS}}$
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.

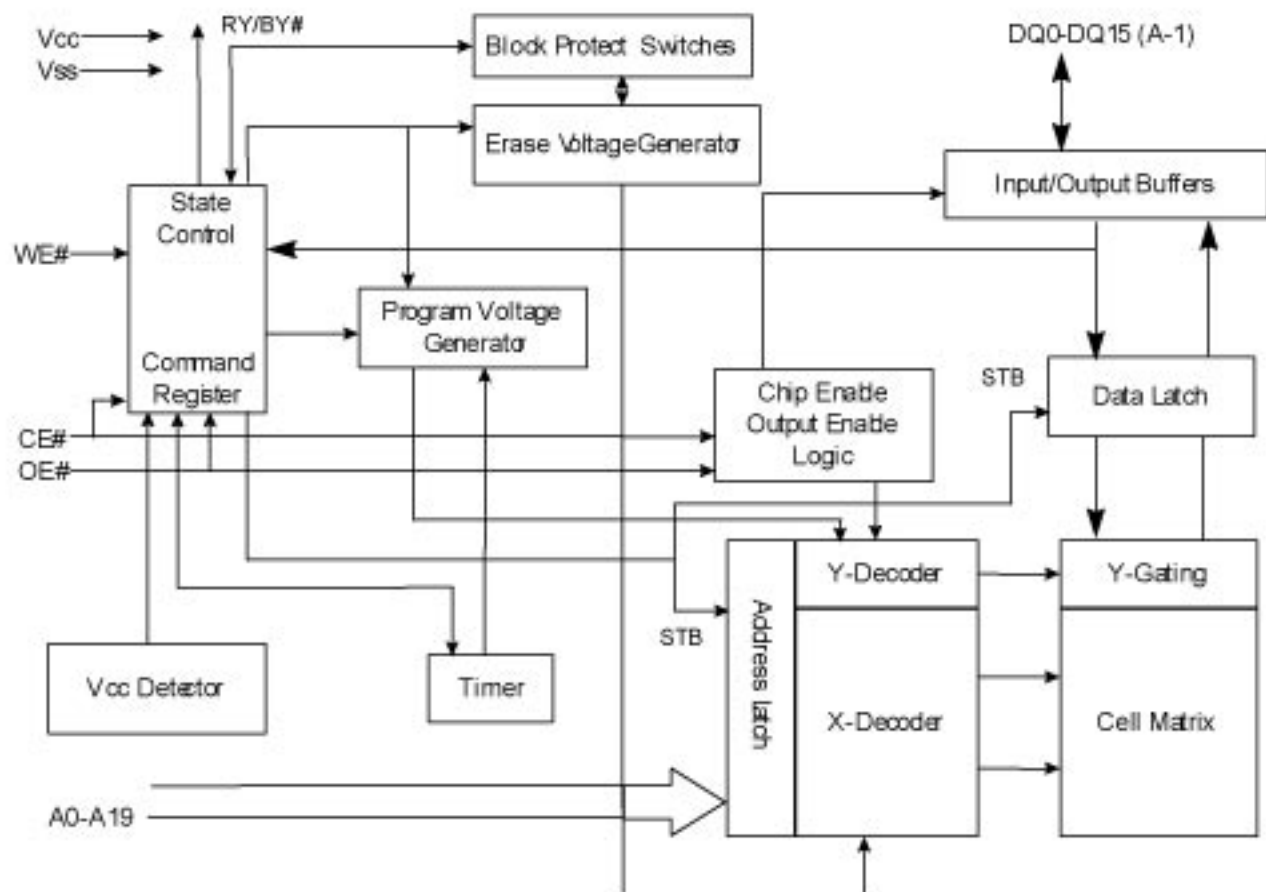
W9864G6JH-6 Block diagram

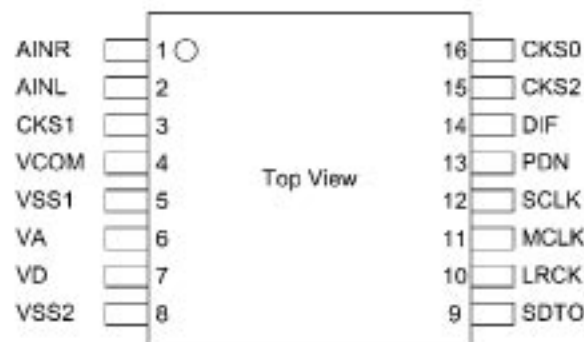


EN29LV160BB-70TIP (HDMI : U2003)



EN29LV160BB-70TIP Block Diagram





AK5358BET Pin Function

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

PCM510X (top view)

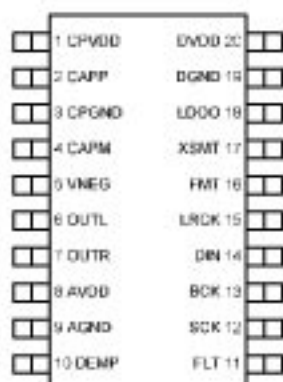


Table 2. TERMINAL FUNCTIONS, PCM510x

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

(1) Failsafe LVCMOS Schmitt trigger input

PCM5100 Block Diagram

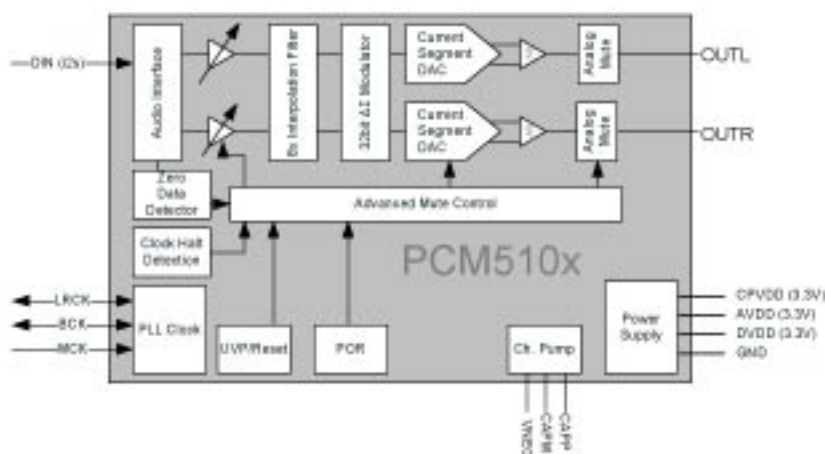
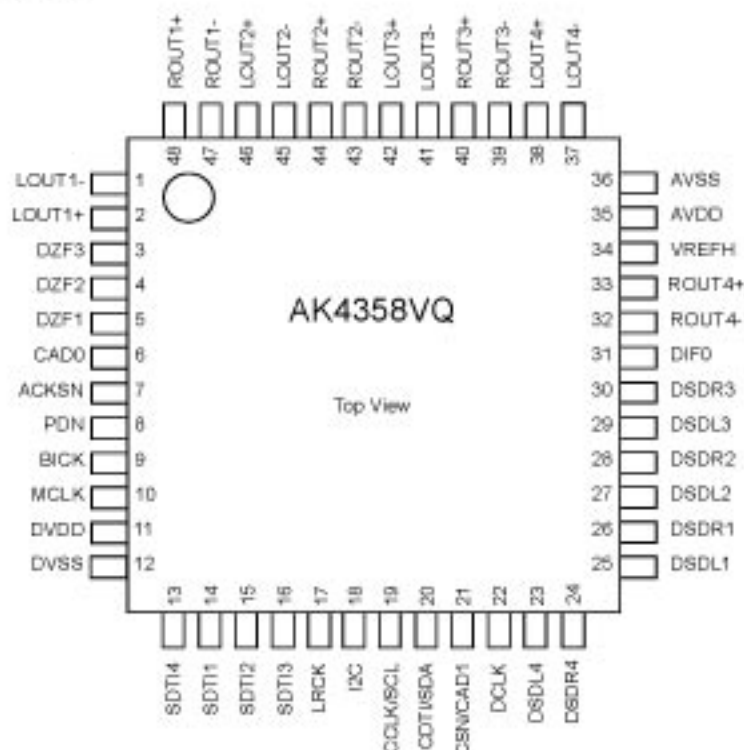


Figure 1. PCM510x Functional Block Diagram



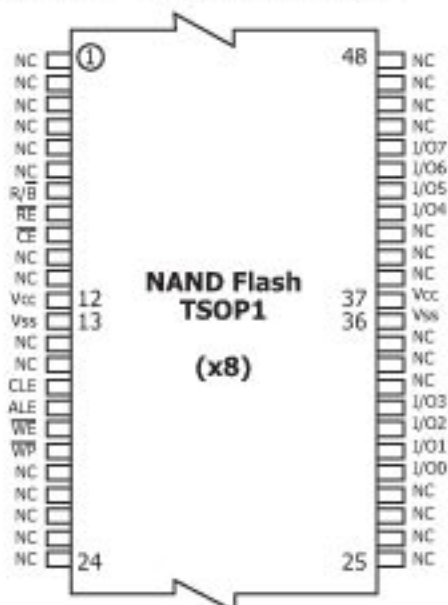
AK4358VQ Pin Function

No.	Pin Name	I/O	Function
1	LOUT1-	O	DAC1 Lch Negative Analog Output Pin
2	LOUT1+	O	DAC1 Lch Positive Analog Output Pin
3	DZF3	O	Zero Input Detect 3 Pin
4	DZF2	O	Zero Input Detect 2 Pin
5	DZF1	O	Zero Input Detect 1 Pin
6	CAD0	I	Chip Address 0 Pin
7	ACKSN	I	Auto Setting Mode Disable Pin (Pull-down Pin) "L": Auto Setting Mode, "H": Manual Setting Mode
8	PDN	I	Power-Down Mode Pin When at "L", the AK4358 is in the power-down mode and is held in reset. The AK4358 should always be reset upon power-up.
9	BICK	I	Audio Serial Data Clock Pin
10	MCLK	I	Master Clock Input Pin An external TTL clock should be input on this pin.
11	DVDD	-	Digital Power Supply Pin, +4.75~+5.25V
12	DVSS	-	Digital Ground Pin
13	SDT14	I	DAC4 Audio Serial Data Input Pin
14	SDT11	I	DAC1 Audio Serial Data Input Pin
15	SDT12	I	DAC2 Audio Serial Data Input Pin
16	SDT13	I	DAC3 Audio Serial Data Input Pin
17	LRCK	I	L/R Clock Pin
18	I2C	I	Control Mode Select Pin "L": 3-wire Serial, "H": I ² C Bus
19	CCLK/SCL	I	Control Data Clock Pin I2C = "L": CCLK (3-wire Serial), I2C = "H": SCL (I ² C Bus)
20	CDTI/SDA	I/O	Control Data Input Pin I2C = "L": CDTI (3-wire Serial), I2C = "H": SDA (I ² C Bus)
21	CSN/CAD1	I	Chip Select Pin I2C = "L": CSN (3-wire Serial), I2C = "H": CAD1 (I ² C Bus)
22	DCLK	I	DSD Clock Pin
23	DSDL4	I	DAC4 DSD Lch Data Input Pin
24	DSDR4	I	DAC4 DSD Rch Data Input Pin
25	DSDL1	I	DAC1 DSD Lch Data Input Pin
26	DSDR1	I	DAC1 DSD Rch Data Input Pin
27	DSDL2	I	DAC2 DSD Lch Data Input Pin
28	DSDR2	I	DAC2 DSD Rch Data Input Pin

29	DSDL3	I	DAC3 DSD Lch Data Input Pin
30	DSDR3	I	DAC3 DSD Rch Data Input Pin
31	DIF0	I	Audio Data Interface Format 0 Pin
32	ROUT4-	O	DAC4 Rch Negative Analog Output Pin
33	ROUT4+	O	DAC4 Rch Positive Analog Output Pin
34	VREFH	I	Positive Voltage Reference Input Pin
35	AVDD	-	Analog Power Supply Pin, +4.75~+5.25V
36	AVSS	-	Analog Ground Pin
37	LOUT4-	O	DAC4 Lch Negative Analog Output Pin
38	LOUT4+	O	DAC4 Lch Positive Analog Output Pin
39	ROUT3-	O	DAC3 Rch Negative Analog Output Pin
40	ROUT3+	O	DAC3 Rch Positive Analog Output Pin
41	LOUT3-	O	DAC3 Lch Negative Analog Output Pin
42	LOUT3+	O	DAC3 Lch Positive Analog Output Pin
43	ROUT2-	O	DAC2 Rch Negative Analog Output Pin
44	ROUT2+	O	DAC2 Rch Positive Analog Output Pin
45	LOUT2-	O	DAC2 Lch Negative Analog Output Pin
46	LOUT2+	O	DAC2 Lch Positive Analog Output Pin
47	ROUT1-	O	DAC1 Rch Negative Analog Output Pin
48	ROUT1+	O	DAC1 Rch Positive Analog Output Pin

Note: All input pins except pull-down pin should not be left floating.

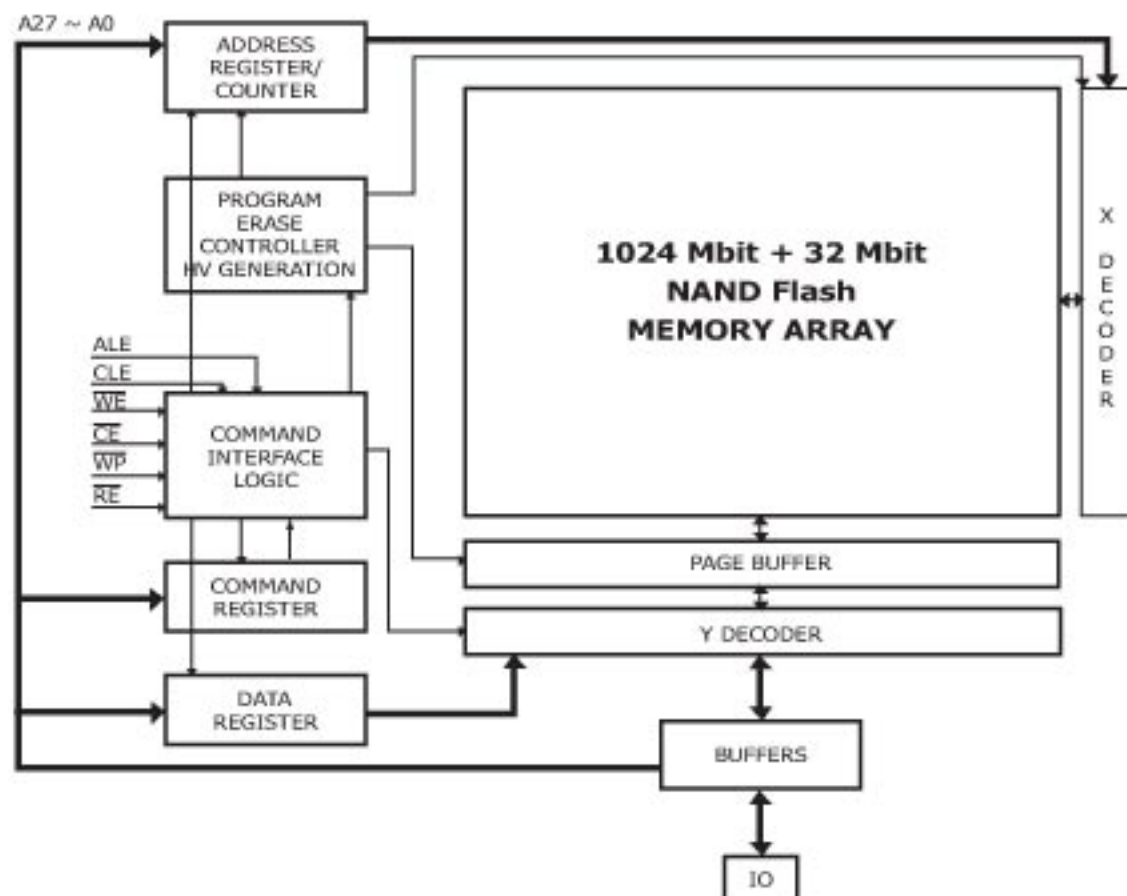
H27U1G8F2BTR-BC (HDMI : U2603)



H27U1G8F2BTR-BC Pin Function

Pin Name	Description
IO0 ~ IO7	DATA INPUTS/OUTPUTS 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	COMMAND LATCH ENABLE This input activates the latching of the IO inputs inside the Command Register on the Rising edge of Write Enable (WE).
ALE	ADDRESS LATCH ENABLE This input activates the latching of the IO inputs inside the Address Register on the Rising edge of Write Enable (WE).
$\overline{CE}$	CHIP ENABLE This input controls the selection of the device.
$\overline{WE}$	WRITE ENABLE This input acts as clock to latch Command, Address and Data. The IO inputs are latched on the rise edge of WE.
$\overline{RE}$	READ ENABLE 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.
$\overline{WP}$	WRITE PROTECT The WP pin, when Low, provides an Hardware protection against undesired modify (program / erase) operations.
R/B	READY BUSY The Ready/Busy output is an Open Drain pin that signals the state of the memory.
Vcc	SUPPLY VOLTAGE The Vcc supplies the power for all the operations (Read, Write, Erase).
Vss	GROUND
NC	NO CONNECTION

H27U1G8F2BTR-BC Block Diagram



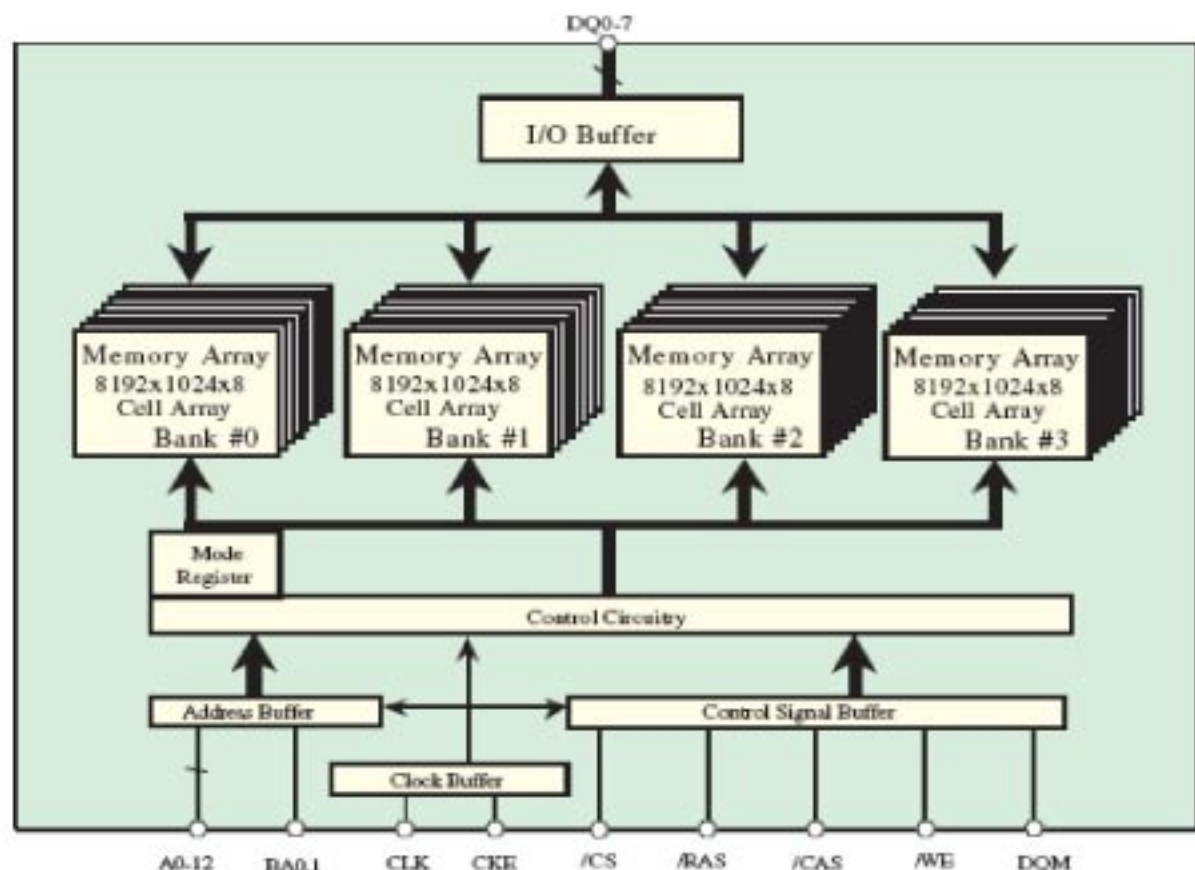
A3V56S30FTP-G6 (HDMI:U2604,2605)

Vdd	1	54	Vss
DQ0	2	53	DQ7
VddQ	3	52	VssQ
NC	4	51	NC
DQ1	5	50	DQ6
VssQ	6	49	VddQ
NC	7	48	NC
DQ2	8	47	DQ5
VddQ	9	46	VssQ
NC	10	45	NC
DQ3	11	44	DQ4
VssQ	12	43	VddQ
NC	13	42	NC
Vdd	14	41	Vss
NC	15	40	NC
/WE	16	39	DQM
/CAS	17	38	CLK
/RAS	18	37	CKE
/CS	19	36	A12
BA0	20	35	A11
BA1	21	34	A9
A10(AP)	22	33	A8
A0	23	32	A7
A1	24	31	A6
A2	25	30	A5
A3	26	29	A4
Vdd	27	28	Vss

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 to 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



LAN8720A (HDMI:U2802)

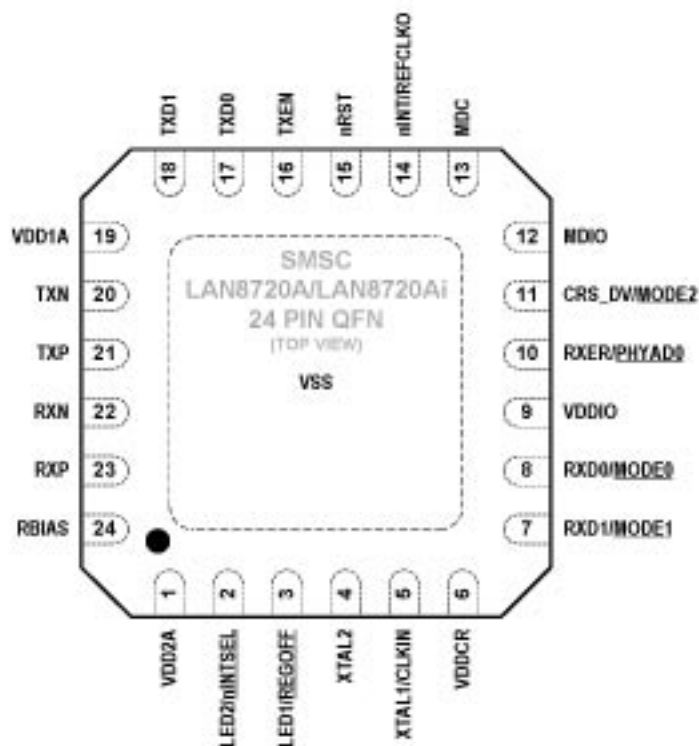


Table 2.8 24-QFN Package Pin Assignments

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

LAN8720A Block Diagram

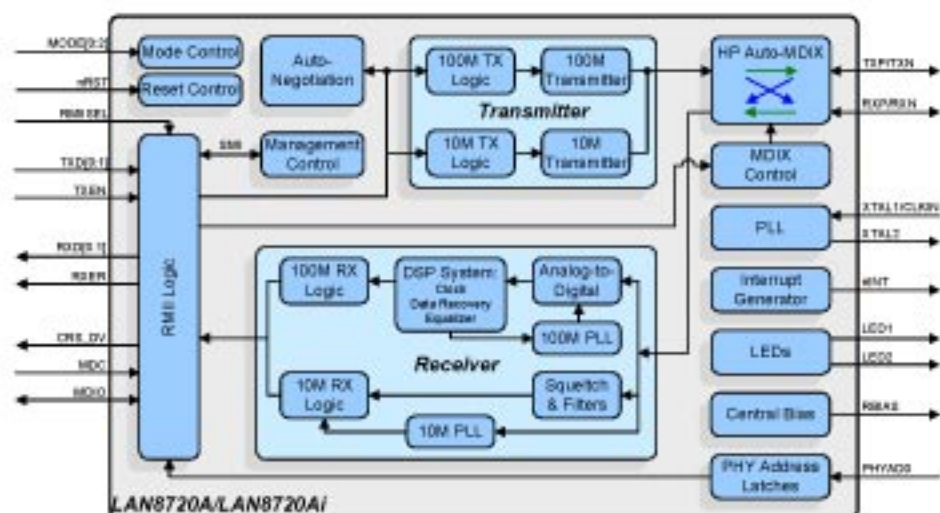
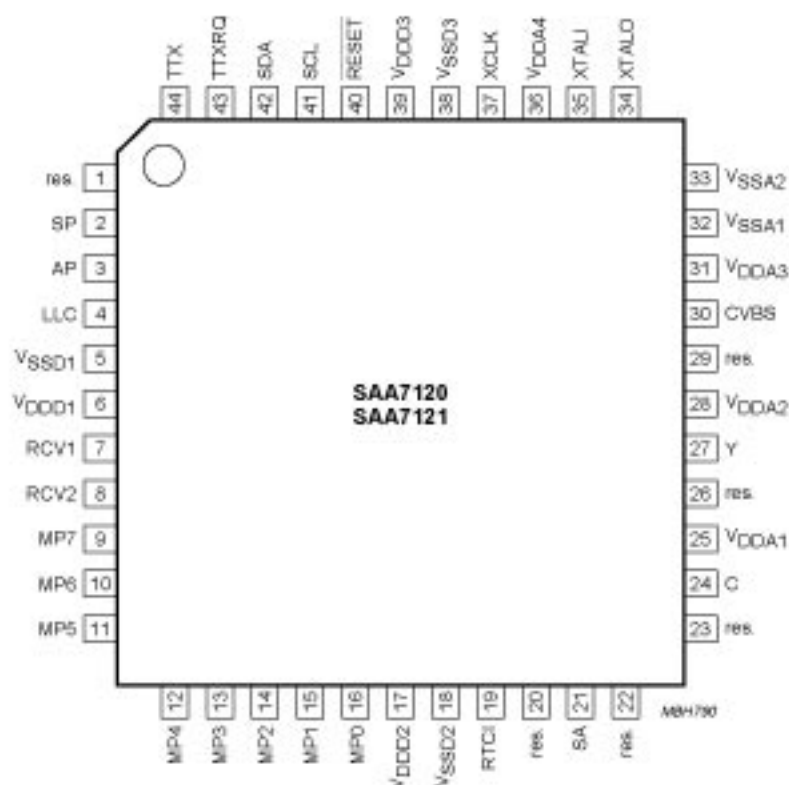
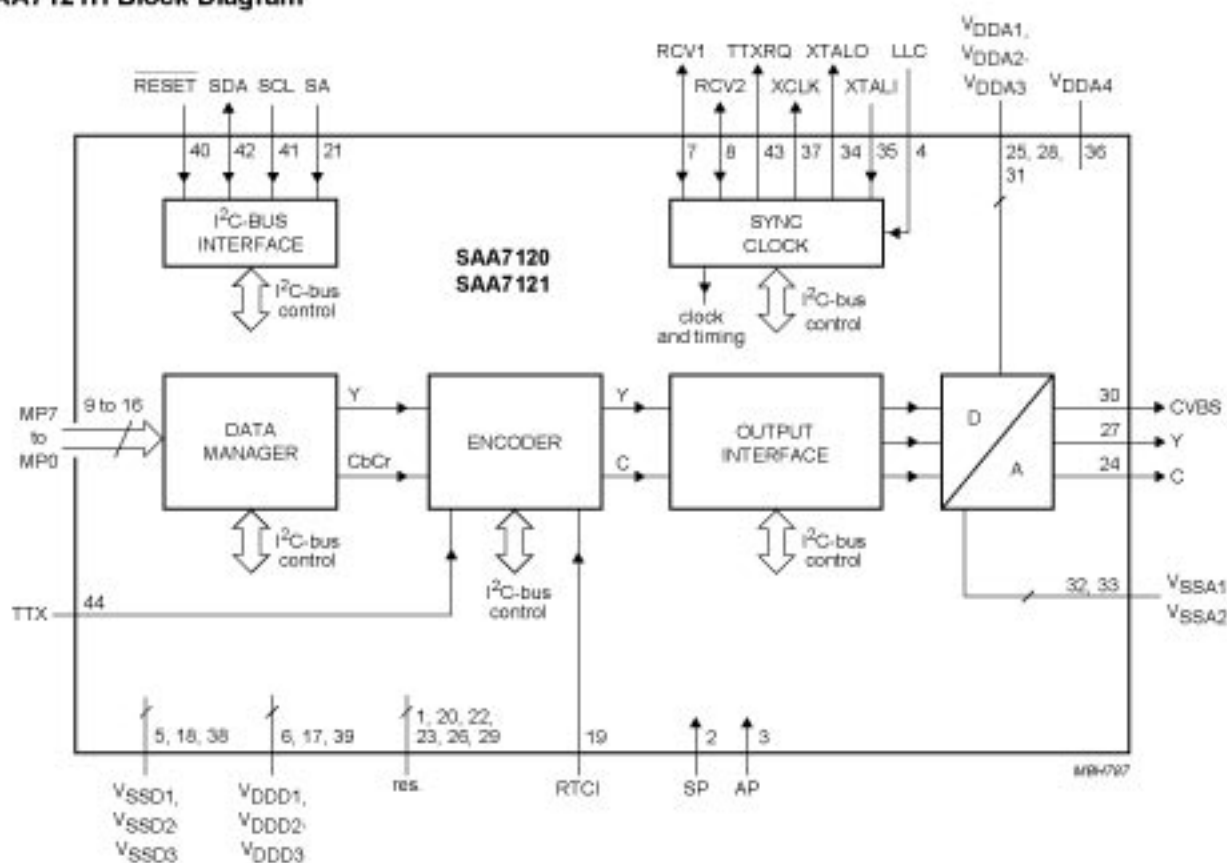
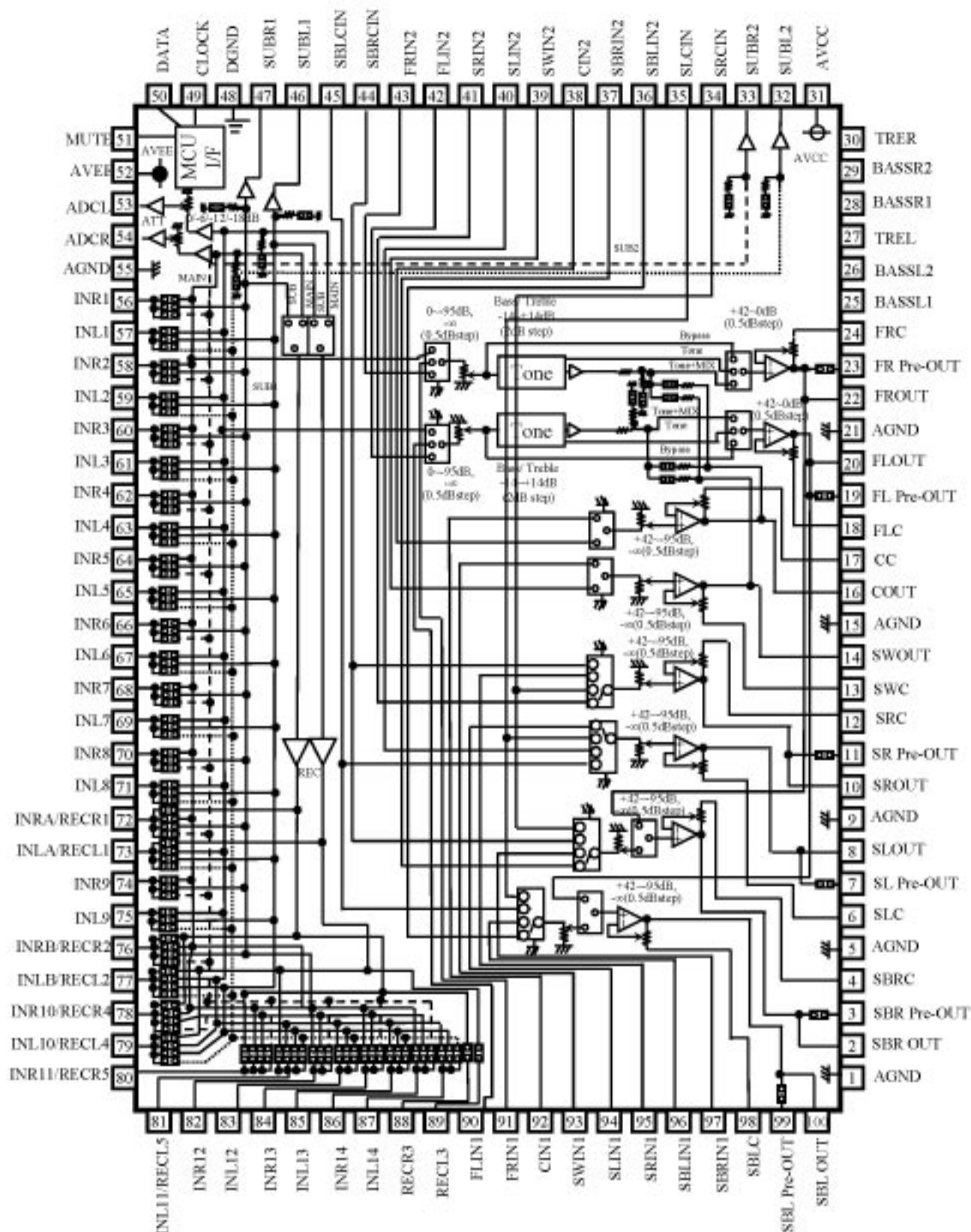


Figure 1.2 Architectural Overview

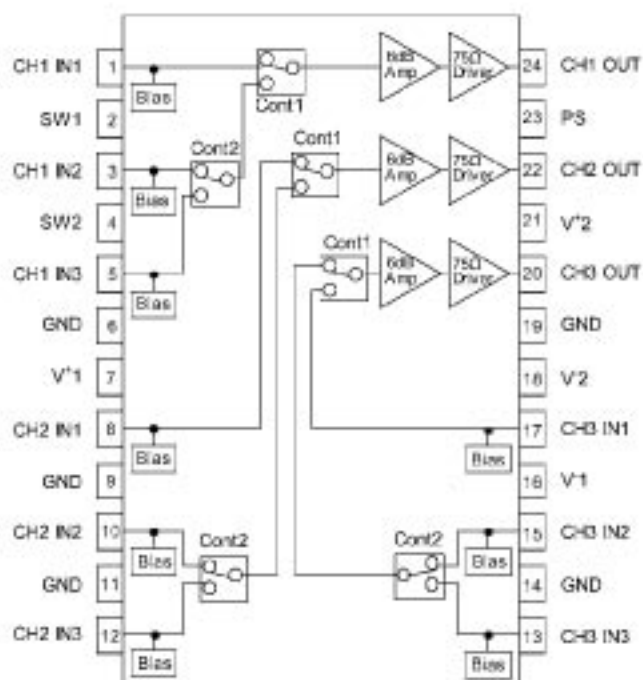

SAA7121H Block Diagram


SAA7121H Pin Description

SYMBOL	PIN	I/O	DESCRIPTION
res.	1	–	reserved
SP	2	I	test pin; connected to digital ground for normal operation
AP	3	I	test pin; connected to digital ground for normal operation
LLC	4	I	line-locked clock; this is the 27 MHz master clock for the encoder
V _{SSD1}	5	I	digital ground 1
V _{CCD1}	6	I	digital supply voltage 1
RCV1	7	I/O	raster control 1 for video port; this pin receives/provides a VS/FS/FSEQ signal
RCV2	8	I/O	raster control 2 for video port; this pin provides an HS pulse of programmable length or receives an HS pulse
MP7	9	I	MPEG port; it is an input for "CCIR 656" style multiplexed Cb, Y, Cr data
MP6	10	I	
MP5	11	I	
MP4	12	I	
MP3	13	I	
MP2	14	I	
MP1	15	I	
MP0	16	I	
V _{CCD2}	17	I	digital supply voltage 2
V _{SSD2}	18	I	digital ground 2
RTCI	19	I	Real Time Control input; if the LLC clock is provided by an SAA7111 or SAA7151B, RTCI should be connected to pin RTCO of the decoder to improve the signal quality
res.	20	–	reserved
SA	21	I	the I ² C-bus slave address select input pin; LOW: slave address = 88H, HIGH = 8CH
res.	22	–	reserved
res.	23	–	reserved
C	24	O	analog output of the chrominance signal
V _{CCA1}	25	I	analog supply voltage 1 for the C DAC
res.	26	–	reserved
Y	27	O	analog output of VBS signal
V _{CCA2}	28	I	analog supply voltage 2 for the Y DAC
res.	29	–	reserved
CVBS	30	O	analog output of the CVBS signal
V _{CCA3}	31	I	analog supply voltage 3 for the CVBS DAC
V _{SSA1}	32	I	analog ground 1 for the DACs
V _{SSA2}	33	I	analog ground 2 for the oscillator and reference voltage
XTALO	34	O	crystal oscillator output (to crystal)
XTALI	35	I	crystal oscillator input (from crystal); if the oscillator is not used, this pin should be connected to ground
V _{CCA4}	36	I	analog supply voltage 4 for the oscillator and reference voltage
XCLK	37	O	clock output of the crystal oscillator

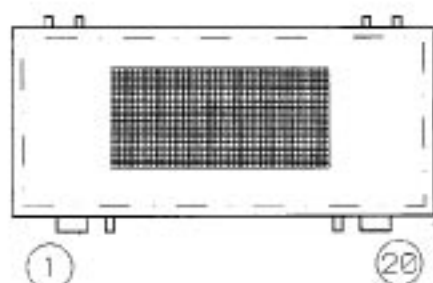


PIN No.	Name	Function
22,20, 16,14, 10, 8, 2, 100	FROUT, FLOUT, COUT, SWOUT, SROUT, SLOUT, SBROUT, SBLOUT	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
23,19, 11, 7, 3, 99	FR Pre-out, FL Pre-out, SR Pre-out, SL Pre-out, SBR Pre-out, SBL Pre-out	Pre-output pin of FL/FR/SL/SR/SBL/SBR channel
24,18, 17,13,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



2. FL DISPLAY

FLD (GP1261AI) (FRONT : FLT4400)



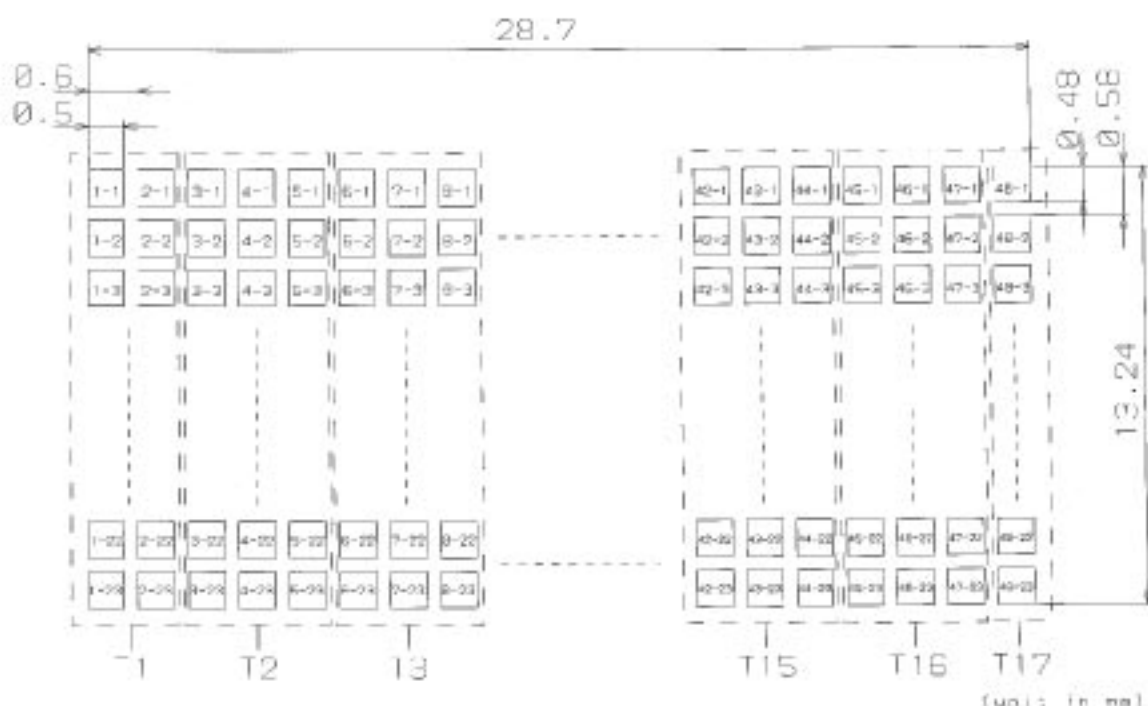
PIN CONNECTION

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	N	N	N	N	N	N	N	N	N	N

- 1) DIO --- Serial Data Input
 2) RESET --- Reset Input
 3) INT --- Int pin
 4) TEST --- Test pin
 5) Solder composition is Sn-3Ag-0.5Cu.
 6) NC --- No connection
 (NC pin should be electrically open on the PC board)

- 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) DSC --- Pin for self-oscillation
 9) CS --- Chip Select Input pin
 10) CLK --- Shift Register Clock

PATTERN DETAIL



COLOR OF ILLUMINATION

Green (G, x=0.24, y=0.41)

- - A00 graphics.

PARTS LIST OF PCB UNIT

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

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

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

U1B : U.S.A. & Canada model

N1B : Europe model

K1B : China model

BK : Black model

SP : Premium Silver model

7CH_AMP PCB UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
Q401,402	00D2710314903	TR 2SA KTA1024Y	J5001024Y0050S		
Q403	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q405	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q406	00D2730479909	TR 2SC 2N5551S	J522255510010S		
Q407,408	00D9600196205	TR 2SA KSA992F	J5000992F0050S		
Q411,412	00D2730471907	TR 2SC KTC3206Y	J5023206Y0050S		
Q413,414	00D2710314903	TR 2SA KTA1024Y	J5001024Y0050S		
Q415	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q418	00D2730479909	TR 2SC 2N5551S	J522255510010S		
Q419,420	00D9600196205	TR 2SA KSA992F	J5000992F0050S		
Q423,424	00D2730471907	TR 2SC KTC3206Y	J5023206Y0050S		
Q425,426	00D2710314903	TR 2SA KTA1024Y	J5001024Y0050S		
Q427	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q430	00D2730479909	TR 2SC 2N5551S	J522255510010S		
Q431,432	00D9600196205	TR 2SA KSA992F	J5000992F0050S		
Q435,436	00D2730471907	TR 2SC KTC3206Y	J5023206Y0050S		
Q437,438	00D2710314903	TR 2SA KTA1024Y	J5001024Y0050S		
Q439	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q442	00D2730479909	TR 2SC 2N5551S	J522255510010S		
Q443,444	00D9600196205	TR 2SA KSA992F	J5000992F0050S		
Q447,448	00D2730471907	TR 2SC KTC3206Y	J5023206Y0050S		
Q449,450	00D2710314903	TR 2SA KTA1024Y	J5001024Y0050S		
Q451	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q454	00D2730479909	TR 2SC 2N5551S	J522255510010S		
Q455,456	00D9600196205	TR 2SA KSA992F	J5000992F0050S		
Q459,460	00D2730471907	TR 2SC KTC3206Y	J5023206Y0050S		
Q461,462	00D2710314903	TR 2SA KTA1024Y	J5001024Y0050S		
Q463	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q466	00D2730479909	TR 2SC 2N5551S	J522255510010S		
Q467,468	00D9600196205	TR 2SA KSA992F	J5000992F0050S		
Q471,472	00D2730471907	TR 2SC KTC3206Y	J5023206Y0050S		
Q473,474	00D2710314903	TR 2SA KTA1024Y	J5001024Y0050S		
Q475	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q478	00D2730479909	TR 2SC 2N5551S	J522255510010S		
Q479,480	00D9600196205	TR 2SA KSA992F	J5000992F0050S		
Q483,484	00D2730471907	TR 2SC KTC3206Y	J5023206Y0050S		
D401-442	00D2760401905	D,SWITCHING 1SS133T	K000013300520S		
D457,458	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST	K005041480230S		
ZD401	963202500300D	D,ZENER ZJ5.1A-0.5W	K06005R134522S		
ZD402,403	963202500410S	D,ZENER ZJ4.7B-0.5W	K06004R744522S		
ZD404	963202500300D	D,ZENER ZJ5.1A-0.5W	K06005R134522S		
ZD405,406	963202500410S	D,ZENER ZJ4.7B-0.5W	K06004R744522S		

Ref. No.	Part No.	Part Name		Remarks	Q'ty	New
ZD407	963202500300D	D,ZENER ZJ5.1A-0.5W	K06005R134522S			
ZD408,409	963202500410S	D,ZENER ZJ4.7B-0.5W	K06004R744522S			
ZD410	963202500300D	D,ZENER ZJ5.1A-0.5W	K06005R134522S			
ZD411,412	963202500410S	D,ZENER ZJ4.7B-0.5W	K06004R744522S			
ZD413	963202500300D	D,ZENER ZJ5.1A-0.5W	K06005R134522S			
ZD414,415	963202500410S	D,ZENER ZJ4.7B-0.5W	K06004R744522S			
ZD416	963202500300D	D,ZENER ZJ5.1A-0.5W	K06005R134522S			
ZD417,418	963202500410S	D,ZENER ZJ4.7B-0.5W	K06004R744522S			
ZD419	963202500300D	D,ZENER ZJ5.1A-0.5W	K06005R134522S			
ZD420,421	963202500410S	D,ZENER ZJ4.7B-0.5W	K06004R744522S			
RESISTORS GROUP						
R403	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R405	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R406	963252100150S	POSISTOR DHPHF1608 471P 115T	F320471001150S			
R415	963125012630S	R,METAL FILM 22-J,1W	C060022065050S	FLAME RETARDANT		
R418	963125010690S	R,METAL FILM 15K-J,2W	C060015366050S			
R424,425	00D9630345903	R,FIXED 2WJ-0.47	N113136647820S	FLAME RETARDANT		
R430,431	00D9630345903	R,FIXED 2WJ-0.47	N113136647820S	FLAME RETARDANT		
R434	nsp	R,METAL FILM 3.3K-J,1W	C060033265050S			
R439	963125012630S	R,METAL FILM 22-J,1W	C060022065050S	FLAME RETARDANT		
R441,442	nsp	R,METAL FILM 1K-J,1W	C060010265050S			
R443	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R447,448	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R449	963252100140D	POSISTOR DHPHF1608 471P 95T	F320471000950S			
R450	963252100150S	POSISTOR DHPHF1608 471P 115T	F320471001150S			
R458	963125012630S	R,METAL FILM 22-J,1W	C060022065050S	FLAME RETARDANT		
R461	963125010690S	R,METAL FILM 15K-J,2W	C060015366050S			
R464	963252100140D	POSISTOR DHPHF1608 471P 95T	F320471000950S			
R467,468	00D9630345903	R,FIXED 2WJ-0.47	N113136647820S	FLAME RETARDANT		
R474,475	00D9630345903	R,FIXED 2WJ-0.47	N113136647820S	FLAME RETARDANT		
R478	nsp	R,METAL FILM 3.3K-J,1W	C060033265050S			
R483	963125012630S	R,METAL FILM 22-J,1W	C060022065050S	FLAME RETARDANT		
R485,486	nsp	R,METAL FILM 1K-J,1W	C060010265050S			
R487	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R491,492	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R494	963252100150S	POSISTOR DHPHF1608 471P 115T	F320471001150S			
R502	963125012630S	R,METAL FILM 22-J,1W	C060022065050S	FLAME RETARDANT		
R505	963125010690S	R,METAL FILM 15K-J,2W	C060015366050S			
R511,512	00D9630345903	R,FIXED 2WJ-0.47	N113136647820S	FLAME RETARDANT		
R517,518	00D9630345903	R,FIXED 2WJ-0.47	N113136647820S	FLAME RETARDANT		
R521	nsp	R,METAL FILM 3.3K-J,1W	C060033265050S			
R526	963125012630S	R,METAL FILM 22-J,1W	C060022065050S	FLAME RETARDANT		
R528,529	nsp	R,METAL FILM 1K-J,1W	C060010265050S			
R530	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R533	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R535	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R537	963252100150S	POSISTOR DHPHF1608 471P 115T	F320471001150S			
R545	963125012630S	R,METAL FILM 22-J,1W	C060022065050S	FLAME RETARDANT		
R548	963125010690S	R,METAL FILM 15K-J,2W	C060015366050S			
R554,555	00D9630345903	R,FIXED 2WJ-0.47	N113136647820S	FLAME RETARDANT		
R561,562	00D9630345903	R,FIXED 2WJ-0.47	N113136647820S	FLAME RETARDANT		

Ref. No.	Part No.	Part Name		Remarks	Q'ty	New
R564	nsp	R,METAL FILM 3.3K-J,1W	C060033265050S			
R569	963125012630S	R,METAL FILM 22-J,1W	C060022065050S	FLAME RETARDANT		
R571,572	nsp	R,METAL FILM 1K-J,1W	C060010265050S			
R573	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R576	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R576	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R580	963252100150S	POSISTOR DHPHF1608 471P 115T	F320471001150S			
R588	963125012630S	R,METAL FILM 22-J,1W	C060022065050S	FLAME RETARDANT		
R591	963125010690S	R,METAL FILM 15K-J,2W	C060015366050S			
R597,598	0009630345903	R,FIXED 2WJ-0.47	N113136647820S	FLAME RETARDANT		
R603,604	0009630345903	R,FIXED 2WJ-0.47	N113136647820S	FLAME RETARDANT		
R607	nsp	R,METAL FILM 3.3K-J,1W	C060033265050S			
R612	963125012630S	R,METAL FILM 22-J,1W	C060022065050S	FLAME RETARDANT		
R614,615	nsp	R,METAL FILM 1K-J,1W	C060010265050S			
R616	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R619	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R621	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R623	963252100150S	POSISTOR DHPHF1608 471P 115T	F320471001150S			
R631	963125012630S	R,METAL FILM 22-J,1W	C060022065050S	FLAME RETARDANT		
R634	963125010690S	R,METAL FILM 15K-J,2W	C060015366050S			
R640,641	0009630345903	R,FIXED 2WJ-0.47	N113136647820S	FLAME RETARDANT		
R646,647	0009630345903	R,FIXED 2WJ-0.47	N113136647820S	FLAME RETARDANT		
R650	nsp	R,METAL FILM 3.3K-J,1W	C060033265050S			
R655	963125012630S	R,METAL FILM 22-J,1W	C060022065050S	FLAME RETARDANT		
R657,658	nsp	R,METAL FILM 1K-J,1W	C060010265050S			
R659	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R662	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R664	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
R666	963252100150S	POSISTOR DHPHF1608 471P 115T	F320471001150S			
R674	963125012630S	R,METAL FILM 22-J,1W	C060022065050S	FLAME RETARDANT		
R677	963125010690S	R,METAL FILM 15K-J,2W	C060015366050S			
R683,684	0009630345903	R,FIXED 2WJ-0.47	N113136647820S	FLAME RETARDANT		
R689,690	0009630345903	R,FIXED 2WJ-0.47	N113136647820S	FLAME RETARDANT		
R694	nsp	R,METAL FILM 3.3K-J,1W	C060033265050S			
R698	963125012630S	R,METAL FILM 22-J,1W	C060022065050S	FLAME RETARDANT		
R700,701	nsp	R,METAL FILM 1K-J,1W	C060010265050S			
R702	nsp	R,METAL FILM 270-J,1W	C060027165060S	FLAME RETARDANT		
VR401-407	963161012400S	VR,SEMI CARBON EVN-DCAA03B 1KB	C541102315000S			
CAPACITORS GROUP						
C401	nsp	C,CERAMIC 0.1UF-K/50V	D011104577160S			
C403	nsp	C,CERAMIC 0.01UF-K/50V	D010103777160S			
C405	nsp	C,CERAMIC 220PF-J/50V	D010221167160S			
C406	nsp	C,CERAMIC SL220PF-J/500V	D00022106D051S			
C407	00D2544574922	C,ELECT 100UF-M/50V	D040101087060S			
C408	00D2544573994	C,ELECT 22UF-M/50V	D040220087330S			
C409	nsp	C,CERAMIC SL220PF-J/500V	D00022106D051S			
C410	00D2544574922	C,ELECT 100UF-M/50V	D040101087060S			
C411,412	nsp	C,CERAMIC 470PF-K/500V	D00447127D050S			

Ref. No.	Part No.	Part Name		Remarks	Q'ty	New
C413	nsp	C,CERAMIC X7R2200PF-K/50V	D011222777200S			
C415,416	00D9630234302	C,ELECT 10UF-M/100V	D04010008C050S			
C418	nsp	C,CERAMIC 0.1UF-K/50V	D011104577160S			
C421	nsp	C,CERAMIC 220PF-J/50V	D010221167160S			
C422	nsp	C,CERAMIC SL220PF-J/500V	D00022106D051S			
C423	00D2544574922	C,ELECT 100UF-M/50V	D040101087060S			
C424	00D2544573994	C,ELECT 22UF-M/50V	D040220087330S			
C425	nsp	C,CERAMIC SL220PF-J/500V	D00022106D051S			
C426	00D2544574922	C,ELECT 100UF-M/50V	D040101087060S			
C427,428	nsp	C,CERAMIC 470PF-K/500V	D00447127D050S			
C429	nsp	C,CERAMIC X7R2200PF-K/50V	D011222777200S			
C431,432	00D9630234302	C,ELECT 10UF-M/100V	D04010008C050S			
C434	nsp	C,CERAMIC 0.1UF-K/50V	D011104577160S			
C437	nsp	C,CERAMIC 220PF-J/50V	D010221167160S			
C438	nsp	C,CERAMIC SL220PF-J/500V	D00022106D051S			
C439	00D2544574922	C,ELECT 100UF-M/50V	D040101087060S			
C440	00D2544573994	C,ELECT 22UF-M/50V	D040220087330S			
C441	nsp	C,CERAMIC SL220PF-J/500V	D00022106D051S			
C442	00D2544574922	C,ELECT 100UF-M/50V	D040101087060S			
C443,444	nsp	C,CERAMIC 470PF-K/500V	D00447127D050S			
C445	nsp	C,CERAMIC X7R2200PF-K/50V	D011222777200S			
C447,448	00D9630234302	C,ELECT 10UF-M/100V	D04010008C050S			
C450	nsp	C,CERAMIC 0.1UF-K/50V	D011104577160S			
C453	nsp	C,CERAMIC 220PF-J/50V	D010221167160S			
C454	nsp	C,CERAMIC SL220PF-J/500V	D00022106D051S			
C455	00D2544574919	C,ELECT 47UF-M/50V (Pb Free)	D040470087070S			
C456	00D9630224503	C,ELECT 22UF-M/50V	D040220087060S			
C457	nsp	C,CERAMIC SL220PF-J/500V	D00022106D051S			
C458	00D2544574922	C,ELECT 100UF-M/50V	D040101087060S			
C459,460	nsp	C,CERAMIC 470PF-K/500V	D00447127D050S			
C461	nsp	C,CERAMIC X7R2200PF-K/50V	D011222777200S			
C463,464	00D9630234302	C,ELECT 10UF-M/100V	D04010008C050S			
C466	nsp	C,CERAMIC 0.1UF-K/50V	D011104577160S			
C469	nsp	C,CERAMIC 220PF-J/50V	D010221167160S			
C470	nsp	C,CERAMIC SL220PF-J/500V	D00022106D051S			
C471	00D2544574919	C,ELECT 47UF-M/50V (Pb Free)	D040470087070S			
C472	00D9630224503	C,ELECT 22UF-M/50V	D040220087060S			
C473	nsp	C,CERAMIC SL220PF-J/500V	D00022106D051S			
C474	00D2544574922	C,ELECT 100UF-M/50V	D040101087060S			
C475,476	nsp	C,CERAMIC 470PF-K/500V	D00447127D050S			
C477	nsp	C,CERAMIC X7R2200PF-K/50V	D011222777200S			
C479,480	00D9630234302	C,ELECT 10UF-M/100V	D04010008C050S			
C482	nsp	C,CERAMIC 0.1UF-K/50V	D011104577160S			
C485	nsp	C,CERAMIC 220PF-J/50V	D010221167160S			
C486	nsp	C,CERAMIC SL220PF-J/500V	D00022106D051S			
C487	00D2544574919	C,ELECT 47UF-M/50V (Pb Free)	D040470087070S			
C488	00D9630224503	C,ELECT 22UF-M/50V	D040220087060S			
C489	nsp	C,CERAMIC SL220PF-J/500V	D00022106D051S			
C490	00D2544574922	C,ELECT 100UF-M/50V	D040101087060S			
C491,492	nsp	C,CERAMIC 470PF-K/500V	D00447127D050S			
C493	nsp	C,CERAMIC X7R2200PF-K/50V	D011222777200S			
C495,496	00D9630234302	C,ELECT 10UF-M/100V	D04010008C050S			
C498	nsp	C,CERAMIC 0.1UF-K/50V	D011104577160S			

Ref. No.	Part No.	Part Name		Remarks	Q'ty	New
C501	nsp	C,CERAMIC 220PF-J/50V	D010221167160S			
C502	nsp	C,CERAMIC SL220PF-J/500V	D00022106D051S			
C503	0002544574919	C,ELECT 47UF-M/50V (Pb Free)	D040470087070S			
C504	0009630224503	C,ELECT 22UF-M/50V	D040220087060S			
C505	nsp	C,CERAMIC SL220PF-J/500V	D00022106D051S			
C506	0002544574922	C,ELECT 100UF-M/50V	D040101087060S			
C507,508	nsp	C,CERAMIC 470PF-K/500V	D00447127D050S			
C509	nsp	C,CERAMIC X7R2200PF-K/50V	D011222777200S			
C511,512	0009630234302	C,ELECT 10UF-M/100V	D04010008C050S			
C513,514	0009630338402	C,ELECT 330UF-M/6.3V	D040331081050S			
C515	0002544538913	C,ELECT 22UF-M/16V	D040220083070S			
OTHERS PARTS GROUP						
BKT400	nsp	BRACKET 0.8tSCREW	4010210196100S			
CN404	963612504740D	CN,WIRE 2MM 170MM/5P	L002171050080S			
CP401	nsp	CN.WAFER 13P STRAIGHT	L101200101310S			
CP402	nsp	CN.WAFER 5P 5267-05A	L102526700500S			
CP403	nsp	CN.WAFER 10P STRAIGHT	L101200101010S			
CP405	nsp	CN.WAFER 3P 5267-03A	L102526700300S			
G400-402	nsp	CN,WIRE 1P	L000600010050S			
J538	nsp	CN.WIRE 1P	L045061000050S			
TP401-407	nsp	CN.WAFER 3P	L101200100320S			

MAIN PCB UNIT ASSY

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
IC4000	00D2630553006	IC NJM7805FA	J126780500130S		
IC4001	00D2630554005	IC NJM7905FA	J126790500020S		
IC4002	00D2630810008	IC NJM7808FA	J126780800030S		
IC4003	00D2630553006	IC NJM7805FA	J126780500130S		
IC4004	00D2630503001	IC NJM7908FA	J126790800020S		
△ IC4140	231010091708S	IC LINEAR POWER TOP258MG SDIP10	J122258001010S		
△ IC4142	00D2623047008	IC PC123X2YFZ (DIP4P SHARP)	K614123000010S		
IC4143	212050010508S	IC KIA2431AP	J126243118010S		
Q4000-4004	943215500020S	TR 2SA RT1P141C	J520101411210S		
Q4005-4009	943216500020S	TR 2SC RT1N141C	J522101411210S		
Q4010	943214500030S	TR 2SC INC2001AC1	J522020011210S		
Q4012	943214500030S	TR 2SC INC2001AC1	J522020011210S		
Q4014	943214500030S	TR 2SC INC2001AC1	J522020011210S		
Q4016	943214500030S	TR 2SC INC2001AC1	J522020011210S		
Q4018	943214500030S	TR 2SC INC2001AC1	J522020011210S		
Q4020	943214500030S	TR 2SC INC2001AC1	J522020011210S		
Q4022	943214500030S	TR 2SC INC2001AC1	J522020011210S		
Q4024	943214500030S	TR 2SC INC2001AC1	J522020011210S		
Q4026	943214500030S	TR 2SC INC2001AC1	J522020011210S		
D4000-4004	963201500170D	D.SWITCHING CHIP LBAS16HT1G FAST	K005041480230S		
D4007	00D2760401905	D.SWITCHING 1SS133T	K000013300520S		
D4008	963203500300D	D.RECTIFIER BRIDGE DIODE	K047100600220S		
D4009-4012	963201500160D	D.SWITCHING 1N4007 52REEL	K000400700220S		
D4013	00D9630236504	D.SCHOTTKY RB721Q-40	K120072140010S		
D4014,4015	963201500160D	D.SWITCHING 1N4007 52REEL	K000400700220S		
D4016	00D2760401905	D.SWITCHING 1SS133T	K000013300520S		
D4017,4018	963201500160D	D.SWITCHING 1N4007 52REEL	K000400700220S		
D4019	00D2760401905	D.SWITCHING 1SS133T	K000013300520S		
D4020-4022	963201500160D	D.SWITCHING 1N4007 52REEL	K000400700220S		
D4023	00D9630236504	D.SCHOTTKY RB721Q-40	K120072140010S		
D4024,4025	963201500160D	D.SWITCHING 1N4007 52REEL	K000400700220S		
D4026	00D9630236504	D.SCHOTTKY RB721Q-40	K120072140010S		
D4027-4030	963201500160D	D.SWITCHING 1N4007 52REEL	K000400700220S		
D4031,4032	00D2760401905	D.SWITCHING 1SS133T	K000013300520S		
D4033-4036	963201500160D	D.SWITCHING 1N4007 52REEL	K000400700220S		
D4037	00D2760401905	D.SWITCHING 1SS133T	K000013300520S		
D4038	963201500160D	D.SWITCHING 1N4007 52REEL	K000400700220S		
D4039	00D9630236504	D.SCHOTTKY RB721Q-40	K120072140010S		
D4140-4148	963201500160D	D.SWITCHING 1N4007 52REEL	K000400700220S		
D4149	963204500210D	D.SCHOTTKY S306C6MT 60V 30A	K120300600010S		
D4150	00D2760401905	D.SWITCHING 1SS133T	K000013300520S		
ZD4000,4001	963202500360D	D.ZENER ZJ33B-0.5W/5MA-52MM	K06033R044522S		
ZD4002	963202500330D	D.ZENER ZJ6.8B-0.5W	K06008R844522S		
ZD4147-4149	963202500370D	D.ZENER ZJ39B-0.5W/5MA-52MM	K06039R044522S	U1B	
ZD4150-4157	963202500350D	D.ZENER ZJ22B-0.5W	K06022R044522S		

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
ZD4158	963202500370D	D,ZENER ZJ39B-0.5W/5MA-52MM	K06039R044522S		
ZD4159	963202500320D	D,ZENER ZJ5.6B-0.5W/5MA-52MM	K06005R644522S		
ZD4160	00D9600095704	ZENER DIODE MTZJ6.2B-0.5W	K06006R244520S	U1B	
ZD4160	00D2760665903	ZENER DIODE MTZJ16B-0.5W	K06016R044520S	N1B, N1SG, K1B	
RESISTORS GROUP					
R4000,4001	963125010110S	R,METAL FILM 470-J,2W	C060047166060S		
R4002-4015	963125010100S	R,METAL FILM 10-J 2W	C060010066050S		
R4025-4027	963125500070D	R,METAL FILM 100PPM 1.1K-J	C060011265050S		
R4029	nsp	R,METAL FILM 10K-J,1/4W	C060103063050S		
R4147	nsp	270K-J,1/16W-1608	C20002746M160S	U1B	
R4147	nsp	56K-J,1/16W-1608	C20005636M160S	N1B, N1SG, K1B	
R4148,R4149	nsp	2.2M-J,1/5W-52RE-AX	C00002256P520S	U1B	
R4150	nsp	1M-J,1/5W-52RE-AX	C00001056P520S	U1B	
CAPACITORS GROUP					
C4000	nsp	C,FILM MI-0.047UF-J/50V	D020473167050S		
C4001	nsp	C,CERAMIC 2200PF-K/50V	D011222777160S		
C4003	nsp	C,FILM MI-0.047UF-J/50V	D020473167050S		
C4004	nsp	C,CERAMIC 2200PF-K/50V	D011222777160S		
C4006,4007	nsp	C,FILM MI-0.047UF-J/50V	D020473167050S		
C4008	nsp	C,CERAMIC 2200PF-K/50V	D011222777160S		
C4010,4011	nsp	C,FILM MI-0.047UF-J/50V	D020473167050S		
C4012	nsp	C,CERAMIC 2200PF-K/50V	D011222777160S		
C4014	nsp	C,CERAMIC 2200PF-K/50V	D011222777160S		
C4016,4017	nsp	C,FILM MI-0.047UF-J/50V	D020473167050S		
C4018	nsp	C,CERAMIC 2200PF-K/50V	D011222777160S		
C4020	nsp	C,FILM MI-0.047UF-J/50V	D020473167050S		
C4021	nsp	C,CERAMIC 2200PF-K/50V	D011222777160S		
C4023-4025	nsp	C,FILM MI-0.047UF-J/50V	D020473167050S		
C4027	nsp	C,CERAMIC 1000PF-K/50V	D011102777160S		
C4028	nsp	C,FILM MI-0.047UF-J/50V	D020473167050S		
C4030	nsp	C,FILM MI-0.047UF-J/50V	D020473167050S		
C4032	nsp	C,CERAMIC 1000PF-K/50V	D011102777160S		
C4035	nsp	C,CERAMIC 1000PF-K/50V	D011102777160S		
C4038	nsp	C,CERAMIC 1000PF-K/50V	D011102777160S		
C4041	nsp	C,CERAMIC 1000PF-K/50V	D011102777160S		
C4044	nsp	C,CERAMIC 1000PF-K/50V	D011102777160S		
C4047	nsp	C,CERAMIC 1000PF-K/50V	D011102777160S		
C4049	00D2544574922	C,ELECT 100UF-M/50V	D040101067060S		
C4050,4051	nsp	C,FILM 0.1UF-K/250V	D02010407H080S		
C4052	963134501800D	C,ELECT GE 85C 10000UF-M/71V	D040103089220S		
C4053	00D2544573981	C,ELECT 10UF-M/50V	D040100087070S		
C4054	963134501800D	C,ELECT GE 85C 10000UF-M/71V	D040103089220S		
C4057	00D9630244606	C,ELECT 0.1UF-M/50V (Pb Free)	D040R10087080S		
C4058	963134010700S	C,ELECT 2200UF-M/25V	D040222084030S		
C4059	963134011290S	C,ELECT 4700UF-M/16V	D040472083020S		
C4060,4061	00D2544573981	C,ELECT 10UF-M/50V	D040100087070S		
C4062	00D9630217002	C,ELECT 3300UF-M/16V	D040332083010S		
C4063	00D2544573981	C,ELECT 10UF-M/50V	D040100087070S		

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C4064	00D9630333203	C,ELECT 100UF-M/16V	D040101083090S		
C4065	90M-QA000500R	C,ELECT 4700UF-M/25V(MHA)	D040472084240S		
C4066	00D9630333203	C,ELECT 100UF-M/16V	D040101083090S		
C4067	90M-QA000500R	C,ELECT 4700UF-M/25V(MHA)	D040472084240S		
C4068	00D9630333203	C,ELECT 100UF-M/16V	D040101083090S		
C4070	00D2544573981	C,ELECT 10UF-M/50V	D040100087070S		
C4076	00D2544573981	C,ELECT 10UF-M/50V	D040100087070S		
C4077-4081	nsp	C,CERAMIC 100PF-J/50V	D010101167160S		
C4082	nsp	C,CERAMIC 0.1UF-K/50V	D011104577160S		
C4083,4084	00D9630224503	C,ELECT 22UF-M/50V	D040220087060S		
C4085	nsp	C,CERAMIC 330PF-J/50V	D010331167160S		
C4086	nsp	C,CERAMIC 0.01UF-K/50V	D010103777160S		
C4087	nsp	C,CERAMIC 330PF-J/50V	D010331167160S		
C4088-4091	00D9630224503	C,ELECT 22UF-M/50V	D040220087060S		
C4092	nsp	C,CERAMIC 330PF-J/50V	D010331167160S		
C4093	nsp	C,CERAMIC 0.01UF-K/50V	D010103777160S		
C4094	nsp	C,CERAMIC 330PF-J/50V	D010331167160S		
C4095,4096	00D9630224503	C,ELECT 22UF-M/50V	D040220087060S		
C4097	nsp	C,CERAMIC 0.01UF-K/50V	D010103777160S		
C4098	nsp	C,CERAMIC 330PF-J/50V	D010331167160S		
C4099-4102	00D9630224503	C,ELECT 22UF-M/50V	D040220087060S		
C4103	nsp	C,CERAMIC 330PF-J/50V	D010331167160S		
C4104	nsp	C,CERAMIC 0.01UF-K/50V	D010103777160S		
C4105	nsp	C,CERAMIC 330PF-J/50V	D010331167160S		
C4106-4109	00D9630224503	C,ELECT 22UF-M/50V	D040220087060S		
C4110	nsp	C,CERAMIC 330PF-J/50V	D010331167160S		
C4111	nsp	C,CERAMIC 0.01UF-K/50V	D010103777160S		
C4112	nsp	C,CERAMIC 330PF-J/50V	D010331167160S		
C4113,4114	00D9630224503	C,ELECT 22UF-M/50V	D040220087060S		
⚠ C4140,4141	963134011730S	C,CERAMIC DE1B3KX471KB4BL01	D00847127H010S		
⚠ C4142	963132011940S	C,CERAMIC DE2F3KY103MB3BM02	D008103589010S		
C4143	nsp	C,FILM 0.1UF-K/275V	D02110407H010S		
C4145-4147	nsp	C,CERAMIC 0.1UF-K/25V	D011104774161S		
⚠ C4148,C4149	963132011940S	C,CERAMIC DE2F3KY103MB3BM02	D008103589010S	N1B, N1SG, K1B	
C4150	nsp	C,CERAMIC 0.1UF-K/25V	D011104774161S	N1B, N1SG, K1B	
C4151	943134501590S	C,ELECT GE 105C 100UF-M/200V	D04110108G000S	U1B	
C4151	963134010200S	C,ELECT 100UF-M/400V	D04110108K000S	N1B, N1SG, K1B	
C4152	963134010210S	C,ELECT 47UF-M/25V	D041470084050S		
C4153	963132010120S	C,CERAMIC DEHR33A102KB2B	D00810207Q010S		
C4154	nsp	C,CERAMIC 0.1UF-K/25V	D011104774161S		
C4155	963134010190S	C,ELECT 10UF-M/50V	D041100087050S		
⚠ C4156	963132011930S	C,CERAMIC DE1E3KX222MB4BL01	D00822248H010S		
C4159,4160	nsp	C,CERAMIC 0.1UF-K/25V	D011104774161S		
C4161	nsp	C,CERAMIC 4.7UF-K/6.3V	D011475571160S		
C4162	963134010220S	C,ELECT5600UF-M/6.3V	D041562081001S		
C4164,4165	963134010220S	C,ELECT5600UF-M/6.3V	D041562081001S		
C4166	nsp	C,CERAMIC 0.1UF-K/25V	D011104774161S		
OTHERS PARTS GROUP					
BD4000	nsp	COIL,BEAD CBW160808U121T	D340160811210S		
BKT4141	nsp	BRACKET 0.8U/SCREW	4010210196100S		

	Ref. No.	Part No.	Part Name		Remarks	Q'ty	New
	BKT4142	nsp	BRACKET SCREW	4010210196000S			
	BKT4143	nsp	BRACKET t1.0+Snp plating /PCB MTG	4010214876000S			
	CN4000	nsp	CN,WIRE 160MM/5P 5264-05	L000161050080S			
	CN4001	nsp	CN,WIRE 260MM/3P 5264-03	L000261030110S			
	CN4002	nsp	CN,WIRE 2MM 120MM/10P 20010HS-10	L002121102620S			
	CN4141	nsp	CN,WIRE 330MM/5P SMH250-05	L000331050110S			
	CP4000	nsp	CN,WAFFER 7.92MM 35328-0360	L108353280360S			
	CP4001	nsp	CN,WAFFER C125Z1-13 13P	L109012511320S			
	CP4002	nsp	CN,WAFFER C125Z1-15 15P	L109012511520S			
	CP4003	nsp	CN,WAFFER C125Z1-11 11P	L109012511120S			
	CP4004	nsp	CN,WAFFER C125Z1-17 17P	L109012511720S			
	CP4005	nsp	CN,WAFFER C125Z1-15 15P	L109012511520S			
	CP4142	nsp	CN,WAFFER 7.92MM LWBP1143-02P	L108011430210S			
⚠	F4140	963652010510S	FUSE T2A/250V	N751502001160S	U1B		
⚠	F4140	963652010500S	FUSE T1.6A/250V	N751501601160S	N1B, N1SG, K1B		
⚠	F4141	963652010520S	FUSE T8.3A/250V	N751506301160S	U1B		
⚠	F4141	963652010910S	FUSE T3.15A/250V	N751503151160S	N1B, N1SG, K1B		
	JACK4000	963643101950S	TER,BOARD SCREW 6P	G613602A1W02YS			
	JACK4001	963643101960S	TER,BOARD SCREW 8P	G614801AW020YS			
	JACK4002	963643010330S	TER,RCA 6PIN	G603615A0700YS			
	JACK4003	963643101830S	TER,RCA 3PIN	G606305B2300YS			
⚠	JK4140	963641011240S	SOCKET,POWER AC (INLET JACK)	G4300152P0001S			
	L4000-4006	nsp	SP-2507 1.0 PI*2UEW TURNS	D330900001330S			
⚠	L4140	963111100420D	COIL,LINE FILTER SQ2014 27mH	D320201405510S			
	RLY4000	00D9630218409	RELAY BC3-12 24V 2A	G680240202030S			
	RLY4001-4004	963682100280D	RELAY JZC-42F/012-2HST	G680060103010S			
⚠	RLY4140	963682100290D	RELAY JZC-36FD/005-HLT	G680060103030S			
	PACK4000	943183100200S	TUNER,FM KST-MW004FV1-S63SV	E900004010030S	U1B		⚠
	PACK4000	943183100210S	TUNER,FM KST-MW104FV1-S63V	E900104011630S	N1B, N1SG		⚠
	PACK4000	943183100220S	TUNER,FM KST-MW004FV1-S63	E900004010630S	K1B		⚠
	FC4140A	nsp	HOLDER,FUSE CLIP	G645000050010S			
	FC4140B	nsp	HOLDER,FUSE CLIP	G645000050010S			
	FC4141A	nsp	HOLDER,FUSE CLIP	G645000050010S			
	FC4141B	nsp	HOLDER,FUSE CLIP	G645000050010S			
⚠	T4140	963102100020S	TRANS,SWITCHING EER2834	E060283405520S			
	TR4140	963222500150D	SEMI,FET CHIP KMB2D0N60SA	J543206005510S			
	TR4142	963213500170D	SEMI,TR/GE NPN 2SC KTC3198G	J5023198G0000S			

VIDEO PCB UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
IC5000	232810005504S	IC BD7628F-E2		J127762800010S	
IC5001	963239100770S	IC, LOGIC TC4051BF SINGLE 8CH		J040405101110S	
IC5002	963239003470S	IC NJM2588AM		J171258800010S	
CAPACITORS GROUP					
C5000	00D9630293709	C, ELECT 100UF-M/10V		D040101082070S	
C5001	nsp	C, CERAMIC 0.01UF-K/50V		D010103777160S	
C5002,5003	00D9630224503	C, ELECT 22UF-M/50V		D040220087060S	
C5004	nsp	C, CERAMIC 0.01UF-K/50V		D010103777160S	
C5006,5007	nsp	C, CERAMIC 0.01UF-K/50V		D010103777160S	
C5008-5010	nsp	C, CERAMIC 68PF-J/50V		D010680167160S	
C5011	00D9630293709	C, ELECT 100UF-M/10V		D040101082070S	
C5012	nsp	C, CERAMIC 68PF-J/50V		D010680167160S	
C5013,5014	nsp	C, CERAMIC 0.1UF-K/50V		D011104577160S	
C5015,5016	nsp	C, CERAMIC 68PF-J/50V		D010680167160S	
C5017,5018	00D9630293602	C, ELECT 1UF-M/50V (Pb Free)		D040010087150S	
C5019,5020	nsp	C, CERAMIC 0.1UF-K/50V		D011104577160S	
C5021	00D9630293602	C, ELECT 1UF-M/50V (Pb Free)		D040010087150S	
C5022	00D9630293709	C, ELECT 100UF-M/10V		D040101082070S	
C5023-5025	00D9630293602	C, ELECT 1UF-M/50V (Pb Free)		D040010087150S	
C5027,5028	nsp	C, CERAMIC 330PF-J/50V		D010331167160S	
C5031,5032	nsp	C, CERAMIC 330PF-J/50V		D010331167160S	
C5036	nsp	C, CERAMIC 330PF-J/50V		D010331167160S	
C5036,5037	nsp	C, CERAMIC 1000PF-K/50V		D011102777160S	
C5038	nsp	C, CERAMIC 330PF-J/50V		D010331167160S	
C5041	nsp	C, CERAMIC 330PF-J/50V		D010331167160S	
C5042	nsp	C, CERAMIC 1000PF-K/50V		D011102777160S	
C5043	nsp	C, CERAMIC 330PF-J/50V		D010331167160S	
C5044	nsp	C, CERAMIC 1000PF-K/50V		D011102777160S	
C5048	nsp	C, FILM 0.1UF-J/50V		D020104167050S	
C5051	nsp	C, FILM 0.1UF-J/50V		D020104167050S	
OTHERS PARTS GROUP					
BKT5000,5001	nsp	BRACKET 0.8t/SCREW		4010210196100S	
CN4001	nsp	CN, WAFER C125Z2-13 13P		L109012521320S	
CN4002	nsp	CN, WAFER C125Z2-15 15P		L109012521520S	
CN5000,5001	nsp	CN, WAFER C125Z2-13 13P		L109012521320S	
CN5002	nsp	CN, WAFER C125Z2-15 15P		L109012521520S	
CP3401	nsp	CN, WAFER C125Z1-13 13P		L109012511320S	
CP3402	nsp	CN, WAFER C125Z1-09 9P		L109012510920S	
CP3404	nsp	CN, WAFER C125Z1-07 7P		L109012510720S	
CP5000,5001	nsp	CN, WAFER C125Z1-13 13P		L109012511320S	
CP5003	nsp	CN, WAFER 2.5MM 8P		L102526808010S	
△ F5000	963652500120S	FUSE T1.25A/250V		N751501251160S	
F5000A	nsp	HOLDER, FUSE CLIP		G645000050010S	
F5000B	nsp	HOLDER, FUSE CLIP		G645000050010S	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
⚠	F5001	963652010500S	FUSE T1.6A/250V		N751501601160S		
	F5001A	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F5001B	nsp	HOLDER,FUSE CLIP		G645000050010S		
⚠	F5002	963652010500S	FUSE T1.6A/250V		N751501601160S		
	F5002A	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F5002B	nsp	HOLDER,FUSE CLIP		G645000050010S		
⚠	F5003	963652010500S	FUSE T1.6A/250V		N751501601160S		
	F5003A	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F5003B	nsp	HOLDER,FUSE CLIP		G645000050010S		
⚠	F5004	963652010500S	FUSE T1.6A/250V		N751501601160S		
	F5004A	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F5004B	nsp	HOLDER,FUSE CLIP		G645000050010S		
	JACK5000	963643101850S	TER,RCA 6PIN RCA-603B-95		G603603B9500YS		
	JACK5001	00D9630146306	RCA-603B-26(GN,BL,RD,GN,BL,RD)	TER,RCA 6PIN	G603603B2600YS		
	JACK5002	00D9630387505	TER,RCA 4PIN RCA-405B-55		G602405B5500YS		
	JACK5003	00D9630132103	TER,RCA 4PIN RCA-405B-04		G602405B0400YS		
	JP212	nsp	R,CHIP 0-J,1/8W		C200000061300S		

FRONT PCB UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
IC4400	963231101200S	IC,LINEAR-REGULATOR		J126288700010S	
IC4401,4402	00D2631289900	IC AZ4580M		J121458000020S	
Q4403	00D9630226705	TR KTC1027Y		J5021027Y0020S	
Q4405-4409	943216500020S	TR 2SC RT1N141C		J522101411210S	
Q4410	943215500030S	TR 2SA RT1P441C		J520104411210S	
D4400	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST		K005041480230S	
D4401-4405	963201500160D	D,SWITCHING 1N4007 52REEL		K000400700220S	
D4406,4407	963209003510S	D,ESD CDS3C05HDMI1		K067030500010S	
D4408	963209500020S	D,ESD CDS3C15GTA		K067031500010S	
D4409-4416	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST		K005041480230S	
ZD4401	963202500420S	D,ZENER ZJ18B-0.5W		K06018R044522S	
ZD4402	963202500430S	D,ZENER ZJ24B-0.5W		K06024R044522S	
ZD4403,4404	963202500310D	D,ZENER ZJ5.1B-0.5W		K06005R144522S	
ZD4407	963202500310D	D,ZENER ZJ5.1B-0.5W		K06005R144522S	
LED4406,4407	963263012110S	LED BL-BUF4V5K-1-AV-FP3.5 3PI RED		K500032000160S	
LED4408	963263100510S	LED WEJ3290W-R2H0-BA 3PI		K500032451010S	
RESISTORS GROUP					
R4401	00D9639006272	R,FIXED RSD-R1-1WJ-4.7		N113135647920S	
CAPACITORS GROUP					
C4409,4410	nsp	C,FILM 0.1UF-K/250V		D02010407H080S	
C4411	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4412	00D2544573981	C,ELECT 10UF-M/50V		D040100067070S	
C4414	00D9630157900	C,ELECT 470UF-M/63V		D040471068010S	
C4416	00D2544573981	C,ELECT 10UF-M/50V		D040100067070S	
C4418	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4419	00D2544573981	C,ELECT 10UF-M/50V		D040100067070S	
C4421,4422	00D2544573981	C,ELECT 10UF-M/50V		D040100067070S	
C4424	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4426	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4427-4429	nsp	C,CERAMIC 100PF-J/50V		D010101167160S	
C4431,4432	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4433	00D2544573981	C,ELECT 10UF-M/50V		D040100067070S	
C4434	nsp	C,CERAMIC0.01UF-K/50V		D011103777160S	
C4435	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4436	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S	
C4437,4438	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010067150S	
C4440,4441	nsp	C,CERAMIC0.01UF-K/50V		D011103777160S	
C4442,4443	nsp	C,CERAMIC 470PF-J/50V		D010471167160S	
C4444	nsp	C,CERAMIC COG82PF-J/50V		D010820167160S	
C4445	00D2544573981	C,ELECT 10UF-M/50V		D040100067070S	
C4446	00D9630293709	C,ELECT 100UF-M/10V		D040101062070S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C4447	nsp	C,CERAMIC0.047UF-K/25V		D011473774161S	
C4448	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4449	00D2544573981	C,ELECT 10UF-M/50V		D040100087070S	
C4450	nsp	C,CERAMIC0.047UF-K/25V		D011473774161S	
C4451	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S	
C4452,4453	00D2544573981	C,ELECT 10UF-M/50V		D040100087070S	
C4454	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4455,4456	nsp	C,CERAMIC 330PF-J/50V		D010331167160S	
C4457,4458	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S	
C4460,4461	nsp	C,CERAMIC0.01UF-K/50V		D011103777160S	
C4462	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4463	nsp	C,ELECT 220UF-M/6.3V		D040221081070S	
C4464	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4465,4466	nsp	C,CERAMIC 470PF-J/50V		D010471167160S	
C4467	nsp	C,CERAMIC 100PF-J/50V		D010101167160S	
C4469	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S	
C4472,4473	nsp	C,FILM ST-0.01UF-J/100V		D02010306C060S	
C4474,4475	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S	
C4476	nsp	C,FILM 0.1UF-J/100V		D02010406C060S	
C4477	nsp	C,FILM 0.047UF-J/100V		D02047306C060S	
C4478,4479	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4480	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S	
OTHERS PARTS GROUP					
BD4400	nsp	COIL,BEAD CBW160808U121T		D340160811210S	
BD4401-4407	nsp	CHIP RES. 0-J 1/16W-1608REEL		C20000006M160S	
BD4408	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S	
BD4409,4410	nsp	CHIP RES. 0-J 1/16W-1608REEL		C20000006M160S	
BKT4001	nsp	BRACKET USB		4010215216000S	
BKT4400,4401	nsp	BRACKET SCREW		4010210196000S	
CLAMP401	nsp	CLAMP WIRE(SOLDER)		4330000120000S	
CLAMP403	nsp	CLAMP WIRE(SOLDER)		4330000120000S	
CLAMP405	nsp	CLAMP WIRE(SOLDER)		4330000120000S	
CN4400	nsp	CN,FPC 1.0MM 1.0-11S-40PW 40P		L130100114050S	
CN4401	nsp	CN,WAFER 5P TUC-P05X		L101100030510S	
CN4402	nsp	CN,WIRE 2MM 500MM/5P		L002501050040S	
CP4400	nsp	CN,WAFER 5268-07A 7P		L102526800700S	
CP4401	nsp	CN,WAFER 5P TUC-P05P		L101100040510S	
△ F4400	963652500020S	FUSE 6125FF500-R 500mA		G657612505030S	
G4401	nsp	RING,TER WIRE 160MM		8410161010120S	
JACK4400	963643101150S	JACK,D3.5 JALCO(YKB21-5442V)		G401KB215442VS	
JACK4401	963643101160S	TER,RCA 3PIN RCA-328H-1-03(BK,BK,BK)		G606328H0300YS	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
JK4400	963643101840S	CN,PLUG CONTACT USB A		G480040001010S	
JK4401	963643101120S	JACK,D6.5 PHONE (YUQIU) D6.5 9P		G402PJ612A09YS	
RMC4400	963262012130S	MODULE,REMOCN R34ES9A		E940349003610S	
SW4400-4409	00D963009530S	SW,TACT SKHV10910D01		G180040500010S	
VEC4400	963667012360S	SW,ENCODER EC16B24T01D4ZZZ		G121162400060S	
VEC4401	00D963038740S	SW,ENCODER EC16B24SO		G121162400070S	
FLT4400	172010008005S	DISPLAY,FLT GP1261AI		K530126100010S	
	nsp	HOLDER ASSY SR6007U1B(MARANTZ)		4328211106000	

INPUT PCB UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
IC4200	963239000650S	IC R2A15218FP		J084152180010S	
Q4200,4201	943214500030S	TR 2SC INC2001AC1		J522020011210S	
Q4204	943215500020S	TR 2SA RT1P141C		J520101411210S	
Q4205	943216500020S	TR 2SC RT1N141C		J522101411210S	
Q4206,4207	943215500020S	TR 2SA RT1P141C		J520101411210S	
Q4208	943216500020S	TR 2SC RT1N141C		J522101411210S	
Q4209-4213	943215500020S	TR 2SA RT1P141C		J520101411210S	
D4210-4212	963201500160D	D,SWITCHING 1N4007 52REEL		K000400700220S	
ZD4200	963202500290D	D,ZENER ZJ3.6B-0.5W		K08003R644522S	
CAPACITORS GROUP					
C4200,4201	nsp	C,CERAMIC 330PF-J/50V		D010331167160S	
C4202,4203	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S	
C4204-4211	nsp	C,CERAMIC 330PF-J/50V		D010331167160S	
C4220	00D9630244606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10067080S	
C4221,4222	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S	
C4223-4228	00D2544573981	C,ELECT 10UF-M/50V		D040100087070S	
C4229-4231	00D2544577945	C,ELECT 100UF-M/16V RA3		D040101083220S	
C4232-4236	nsp	C,ELECT 47UF-M/16V		D040470083060S	
C4237-4244	00D2544573981	C,ELECT 10UF-M/50V		D040100087070S	
C4245,4246	00D2544574922	C,ELECT 100UF-M/50V		D040101087060S	
C4247	00D2544573981	C,ELECT 10UF-M/50V		D040100087070S	
C4248-4252	00D9630244606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10067080S	
OTHERS PARTS GROUP					
CN401	nsp	CN,WIRE 2MM 200MM		L002201130010S	
CN4003	nsp	CN,WAFER C125Z2-11		L109012521120S	
CN4004	nsp	CN,WAFER C125Z2-17		L109012521720S	
CN4005	nsp	CN,WAFER C125Z2-15		L109012521520S	
CN4700	nsp	CN,WAFER C125Z2-09		L109012520920S	
CN4701	nsp	CN,WAFER C125Z2-09		L109012521320S	
CP4200	nsp	CN,WAFER C125Z1-23 23P		L109012512320S	
CP4201	nsp	CN,WAFER C125Z1-31 31P		L109012513120S	
CP4202	nsp	CN,WAFER C125Z1-15 15P		L109012511520S	
CP4203	nsp	CN,WAFER C125Z1-07 7P		L109012510720S	
JACK4200,4201	00D9630132103	TER,RCA 4PIN RCA-405B-04		G602405B0400YS	
JACK4202	90M-YT004640R	TER,RCA 2PIN RCA-207AE-02		G601207AE020YS	

HDMI PCB UNIT ASS'Y

NOTE: When replacing the U3002 or U1602, use the U3002(943243100930S) or U1602(963248100710S).

When the following are replaced, always rewrite with updated firmware using DFW.

(Refer to "PROCEDURE FOR UPGRADING THE VERSION OF THE FIRMWARE" (56 page).)

- HDMI PCB UNIT ASS'Y
- U1602 (MX25L6406EM2I-12G)
- U2205 (EPM3032A-TC44)
- U3002 (R5F56108VNF)
- U2003 (EN29LV160BB-70TIP)

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
Q1001-1004	943216500020S	TR 2SC RT1N141C	J522101411210S		
Q1005-1008	943216500050S	TR 2SC RT1N441C	J522104411210S		
Q1303-1305	943216500020S	TR 2SC RT1N141C	J522101411210S		
Q1606	963223500020D	SEMI,FET CHIP UPA672T-T1-A SC-70	J543672001010S		
Q2201	943216500050S	TR 2SC RT1N441C	J522104411210S		
Q2202	943216500020S	TR 2SC RT1N141C	J522101411210S		
Q3003	943215500020S	TR 2SA RT1P141C	J520101411210S		
Q3201	943214500020S	TR 2SC 2SC3052	J522305200050S		
Q3202	963219002180S	TR 2SD2114KT146W	J5232114K0010S		
Q3203	943214500020S	TR 2SC 2SC3052	J522305200050S		
Q3204	963212500030S	TR 2SA ISA1530AC1	J520015301210S		
Q3205,3206	943214500020S	TR 2SC 2SC3052	J522305200050S		
Q3207	963212500030S	TR 2SA ISA1530AC1	J520015301210S		
Q3208	943214500020S	TR 2SC 2SC3052	J522305200050S		
Q3209	943216500020S	TR 2SC RT1N141C	J522101411210S		
Q3210	943214500020S	TR 2SC 2SC3052	J522305200050S		
Q3211	943216500020S	TR 2SC RT1N141C	J522101411210S		
Q3212	943214500020S	TR 2SC 2SC3052	J522305200050S		
Q3213-3216	943216500020S	TR 2SC RT1N141C	J522101411210S		
Q3217	943214500020S	TR 2SC 2SC3052	J522305200050S		
Q3218,3219	943216500020S	TR 2SC RT1N141C	J522101411210S		
Q3220	943214500020S	TR 2SC 2SC3052	J522305200050S		
Q3601-3605	943216500050S	TR 2SC RT1N441C	J522104411210S		
Q3606,3607	963211500160D	SEMI,CHIP TR/PNP 2SB PBSS5140U	J521051401010S		
Q3608-3612	963219004200S	CHIP FDC608PZ P-CH	J543608000010S		
Q3613,3614	943216500020S	TR 2SC RT1N141C	J522101411210S		
Q3615-3618	963211500160D	SEMI,CHIP TR/PNP 2SB PBSS5140U	J521051401010S		
Q3619	00D2710326904	TR 2SA 2SA1954	J520195405510S		
Q3620	963211500160D	SEMI,CHIP TR/PNP 2SB PBSS5140U	J521051401010S		
Q3621-3626	943216500020S	TR 2SC RT1N141C	J522101411210S		
Q3627	943214500020S	TR 2SC 2SC3052	J522305200050S		
D1001	963204500220D	D,SCHOTTKY CHIP LRB521S-30T1G	K125521305230S		
D1313	963204500220D	D,SCHOTTKY CHIP LRB521S-30T1G	K125521305230S		
D2401	00D2760739907	D,SWITCHING CHIP KDS181S(B)-THICK	K005018100040S		
D3004	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST	K005041480230S		
D3005	90M-HI200030R	LED,IR SIR-34ST3F 3PI 2.5MM	K505343000010S		
D3201	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST	K005041480230S		
D3401	963204500220D	D,SCHOTTKY CHIP LRB521S-30T1G	K125521305230S		
D3602	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST	K005041480230S		
RESISTORS GROUP					
R1001-1004	nsp	CHIP RES. 1KJ 1/16W1005REEL	C20001026M101S		

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R1005-1008	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R1009-1012	nsp	CHIP RES. 47KJ 1/16W1005REEL		C20004736M101S	
R1017,1018	nsp	CHIP RES. 2.2K-J 1/16W-1005REEL		C20002226M101S	
R1019-1021	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R1024-1032	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R1033,1034	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R1036	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S	
R1037	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R1039	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R1041	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R1043	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R1046	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R1252	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R1254	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R1255	nsp	CHIP RES. 47KJ 1/16W1005REEL		C20004736M101S	
R1257,1258	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R1260,1261	nsp	CHIP RES. 2.2K-J 1/16W-1005REEL		C20002226M101S	
R1262,1263	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R1267	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R1301,1302	nsp	R,CHIP THICK 24-D,1/16W-1608REEL		C20002401M160S	
R1303	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R1305	nsp	R,CHIP THICK 51-D,1/16W-1608REEL		C20005101M160S	
R1306-1309	nsp	R,CHIP THICK 24-D,1/16W-1608REEL		C20002401M160S	
R1310	nsp	R,CHIP THICK 51-D,1/16W-1608REEL		C20005101M160S	
R1311,1312	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R1313	nsp	CHIP RES. 2.2K-J 1/16W-1005REEL		C20002226M101S	
R1314,1315	nsp	R,CHIP THICK 51-D,1/16W-1608REEL		C20005101M160S	
R1317	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R1318	nsp	CHIP RES. 3.3KJ 1/16W1005REEL		C20003326M101S	
R1319,1320	nsp	R,CHIP THICK 51-D,1/16W-1608REEL		C20005101M160S	
R1323	nsp	R,CHIP THICK 680-J,1/16W-1005REEL		C20006816M101S	
R1329	nsp	CHIP RES. 47KJ 1/16W1005REEL		C20004736M101S	
R1331	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R1333	nsp	R,CHIP THICK 680-J,1/16W-1005REEL		C20006816M101S	
R1334,1335	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R1336-1338	nsp	CHIP RES. 2.2K-J 1/16W-1005REEL		C20002226M101S	
R1339,1340	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R1342-1344	nsp	CHIP RES. 47KJ 1/16W1005REEL		C20004736M101S	
R1345	nsp	CHIP RES. 2.2K-J 1/16W-1005REEL		C20002226M101S	
R1350	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S	
R1352	nsp	R,CHIP THICK 470-D,1/16W		C20004711M160S	
R1358,1359	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R1360	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R1401,1402	nsp	R,NETWORK A-TYPE 10-J 1/16W		C180100042100S	
R1403,1404	nsp	R,NETWORK A-TYPE 33-J 1/16W		C180330042100S	
R1405,1406	nsp	R,NETWORK A-TYPE 10-J 1/16W		C180100042100S	
R1407-1409	nsp	R,NETWORK A-TYPE 4.7K-J 1/16W		C180472042100S	
R1410-1412	nsp	R,NETWORK A-TYPE 47K-J 1/16W		C180473042100S	
R1413-1417	nsp	R,NETWORK A-TYPE 4.7K-J 1/16W		C180472042100S	
R1418,1419	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R1617,1618	963122500030D	R,CHIP THICK 1K-D,1/16W-1608REEL		C20001021M160S	
R1619,1620	nsp	R,CHIP THICK 470-D,1/16W-1608REEL		C20004711M160S	
R1622	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R1632	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R1635,1636	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R1639	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S	
R1640	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R1641	nsp	CHIP RES. 1.8K-J 1/16W-1005REEL		C20001826M101S	
R1642	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S	
R1645,1646	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R1647	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R1648	nsp	CHIP RES. 1.8K-J 1/16W-1005REEL		C20001826M101S	
R1649-1652	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R1653	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R1656	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R1657	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R1659	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R1680	nsp	R,NETWORK A-TYPE 10-J 1/16W		C180100042100S	
R1661	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R1662	nsp	CHIP RES. 56-J 1/16W-1005REEL		C20005606M101S	
R1663-1665	nsp	CHIP RES. 47-J 1/16W-1005REEL		C20004706M101S	
R1667-1670	nsp	CHIP RES. 47-J 1/16W-1005REEL		C20004706M101S	
R1673	nsp	R,NETWORK A-TYPE 47-J 1/16W		C180470042100S	
R1675-1679	nsp	R,NETWORK A-TYPE 47-J 1/16W		C180470042100S	
R1681-1689	nsp	R,NETWORK A-TYPE 47-J 1/16W		C180470042100S	
R1691-1694	nsp	R,NETWORK A-TYPE 4.7K-J 1/16W		C180472042100S	
R1695	nsp	CHIP RES. 56-J 1/16W-1005REEL		C20005606M101S	
R1699,1700	nsp	R,CHIP THICK 51-D,1/16W-1608REEL		C20005101M160S	
R1701	nsp	R,NETWORK A-TYPE 10-J 1/16W		C180100042100S	
R1720-1728	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R1729-1732	nsp	R,NETWORK A-TYPE 0-J*2 1/16W		C180000022100S	
R1818,1819	963122500030D	R,CHIP THICK 1K-D,1/16W-1608REEL		C20001021M160S	
R1820,1821	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2003	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2004	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S	
R2006	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R2008	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2011	nsp	CHIP RES. 47-J 1/16W-1005REEL		C20004706M101S	
R2012	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R2014,2015	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R2016,2017	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2018	nsp	10-J,1/16W-1005REEL		C20001006M101S	
R2019	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2020	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2021	nsp	CHIP RES. 1M-J 1/16W-1005REEL		C20001056M101S	
R2022	nsp	CHIP RES. 47-J 1/16W-1005REEL		C20004706M101S	
R2023	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2024,2025	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R2026	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2027	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2028	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2030	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2031	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2032	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2033	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2034	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R2035	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2036	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2037	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R2039	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2040	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R2041	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2043	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2044	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R2045	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2046	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R2048,2049	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R2101	nsp	R,NETWORK A-TYPE 33-J 1/16W		C180330042100S	
R2103-2106	nsp	R,NETWORK A-TYPE 10-J 1/16W		C180100042100S	
R2107-2112	nsp	R,NETWORK A-TYPE 33-J 1/16W		C180330042100S	
R2113-2118	nsp	R,NETWORK 10K-J*4 1/16W		C180103042100S	
R2119,2120	nsp	R,NETWORK A-TYPE 33-J 1/16W		C180330042100S	
R2201	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S	
R2202,2203	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2204-2207	nsp	CHIP RES. 150-J 1/16W-1005REEL		C20001516M101S	
R2208	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2209	nsp	CHIP RES. 3.3KJ 1/16W1005REEL		C20003326M101S	
R2210,2211	nsp	CHIP RES. 470J 1/16W1005REEL		C20004716M101S	
R2214	nsp	CHIP RES. 47KJ 1/16W1005REEL		C20004736M101S	
R2215	nsp	R,CHIP THICK 330K-J,1/16W-1005REEL		C20003346M101S	
R2216	nsp	CHIP RES. 47KJ 1/16W1005REEL		C20004736M101S	
R2217	nsp	R,CHIP THICK 330K-J,1/16W-1005REEL		C20003346M101S	
R2220	nsp	R,NETWORK 10K-J*4 1/16W		C180103042100S	
R2223	nsp	CHIP RES. 1M-J 1/16W-1005REEL		C20001056M101S	
R2224	nsp	CHIP RES. 820-J 1/16W-1005REEL		C20008216M101S	
R2225	nsp	CHIP RES. 220-J 1/16W-1005REEL		C20002216M101S	
R2227-2233	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2234	nsp	CHIP RES. 47KJ 1/16W1005REEL		C20004736M101S	
R2235	nsp	R,CHIP THICK 330K-J,1/16W-1005REEL		C20003346M101S	
R2236-2238	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2240-2243	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2245-2255	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2257-2262	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2264	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2265-2268	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2269,2270	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2271-2274	nsp	CHIP RES. 100J 1/16W1005REEL		C20001016M101S	
R2275	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R2276	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S	
R2277,2278	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2402	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R2403	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2404	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S	
R2405	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2406,2407	nsp	CHIP RES. 470J 1/16W1005REEL		C20004716M101S	
R2410,2411	nsp	CHIP RES. 100KJ 1/16W1005REEL		C20001046M101S	
R2412	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S	
R2501	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R2502	nsp	R,CHIP 0-J,1/16W		C20000006M101S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R2604	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R2605-2608	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2609-2611	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R2612	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S	
R2613	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R2615-2617	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2618	nsp	R,CHIP THICK 13K-D, 1/16W-1608REEL		C20001331M160S	
R2620	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2621	nsp	CHIP RES. 1M-J 1/16W-1005REEL		C20001056M101S	
R2622	nsp	CHIP RES. 1.5K-J 1/16W-1005REEL		C20001526M101S	
R2623-2626	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2629,2630	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2631,2632	nsp	10-J, 1/16W-1005REEL		C20001006M101S	
R2633	nsp	R,CHIP 0-J, 1/16W		C20000006M101S	
R2634	nsp	CHIP RES. 2.7K-J 1/16W-1005REEL		C20002726M101S	
R2635	nsp	CHIP RES. 1.5K-J 1/16W-1005REEL		C20001526M101S	
R2636	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2640	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R2641-2644	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2646	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2647	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R2650	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R2651,2652	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R2653	nsp	R,CHIP 0-J, 1/16W		C20000006M101S	
R2701-2703	nsp	R,NETWORK 10K-J*4 1/16W		C180103042100S	
R2704-2706	nsp	R,NETWORK A-TYPE 33-J 1/16W		C180330042100S	
R2707	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R2708	nsp	R,NETWORK 10K-J*4 1/16W		C180103042100S	
R2709-2718	nsp	R,NETWORK A-TYPE 33-J 1/16W		C180330042100S	
R2719	nsp	R,NETWORK A-TYPE 4.7K-J 1/16W		C180472042100S	
R2720	nsp	R,NETWORK A-TYPE 33-J 1/16W		C180330042100S	
R2721	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R2801	nsp	R,CHIP 0-J, 1/16W		C20000006M101S	
R2803	nsp	R,CHIP THICK 10-F, 1/16W-1005REEL		C20001004M100S	
R2805,2806	nsp	R,CHIP 0-J, 1/16W		C20000006M101S	
R2812-2816	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2817	nsp	CHIP RES. 100J 1/16W1005REEL		C20001016M101S	
R2819	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R2820	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R2822-2825	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R2826	nsp	R,CHIP THICK 1.5K-F, 1/16W-1005REEL		C20001524M100S	
R2827	nsp	CHIP RES. 1.5K-J 1/16W-1005REEL		C20001526M101S	
R2828	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R2831	nsp	R,CHIP THICK 8.2K-F, 1/16W-1005REEL		C20006224M101S	
R2834	nsp	R,CHIP THICK 3.9K-F, 1/16W-1005REEL		C20003924M100S	
R2835,2836	nsp	CHIP RES. 47KJ 1/16W1005REEL		C20004736M101S	
R2837	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R2838,2839	nsp	CHIP RES. 47KJ 1/16W1005REEL		C20004736M101S	
R2841-2844	nsp	CHIP RES. 47KJ 1/16W1005REEL		C20004736M101S	
R2845,2846	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R2849	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R2850	nsp	R,CHIP 0-J, 1/16W		C20000006M101S	
R2851	nsp	CHIP RES. 4.7-J 1/16W-1005REEL		C2004R706M101S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R2852,2853	nsp	10-J, 1/16W-1005REEL		C20001006M101S	
R2854-2856	nsp	R,CHIP 0-J, 1/16W		C20000006M101S	
R2859	nsp	R,CHIP 0-J, 1/16W		C20000006M101S	
R2863	nsp	CHIP RES. 100J 1/16W1005REEL		C20001016M101S	
R3001,3002	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S	
R3010,3011	nsp	CHIP RES. 100J 1/16W1005REEL		C20001016M101S	
R3012	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R3017	nsp	CHIP RES. 0-J 1/16W-1608REEL	N1B, N1SG	C20000006M160S	
R3017	nsp	CHIP RES. 10K-J 1/16W-1608REEL	K1B	C20001036M160S	
R3018	nsp	CHIP RES. 10K-J 1/16W-1608REEL	U1B	C20001036M161S	
R3018	nsp	CHIP RES. 10K-J 1/16W-1608REEL	K1B	C20001036M160S	
R3019-3022	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R3023	nsp	R,CHIP 0-J, 1/16W		C20000006M101S	
R3024-3029	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R3030,3031	nsp	R,CHIP 0-J, 1/16W		C20000006M101S	
R3032-3034	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R3035	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R3037	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R3038	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R3041	nsp	R,CHIP 0-J, 1/16W		C20000006M101S	
R3042,3043	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R3044	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R3045,3046	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R3048	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R3050	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R3051	nsp	R,CHIP 0-J, 1/16W		C20000006M101S	
R3058-3064	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R3065-3067	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S	
R3068	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R3069	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R3070-3076	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R3077,3078	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R3084	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R3086	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R3088	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R3090	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R3092	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R3094	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R3098	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R3100	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	
R3201	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R3202	nsp	CHIP RES. 2.2MJ 1/16W1005REEL		C20002256M101S	
R3203	nsp	R,CHIP 10K-J, 1/16W		C20001036M111S	
R3204	nsp	CHIP RES. 100KJ 1/16W1005REEL		C20001046M101S	
R3205	nsp	CHIP RES. 47KJ 1/16W1005REEL		C20004736M101S	
R3206	nsp	CHIP RES. 100KJ 1/16W1005REEL		C20001046M101S	
R3207	nsp	CHIP RES. 220KJ 1/16W1005REEL		C20002246M101S	
R3208	nsp	CHIP RES. 27K-J 1/16W-1005REEL		C20002736M101S	
R3209	nsp	CHIP RES. 3.3KJ 1/16W1005REEL		C20003326M101S	
R3211	nsp	CHIP RES. 1.2K-J 1/16W-1005REEL		C20001226M101S	
R3212-3214	nsp	R,CHIP 0-J, 1/16W		C20000006M101S	
R3215	nsp	R,CHIP THICK 4.7K-J, 1/16W		C20004726M101S	
R3216,3217	nsp	R,CHIP 33-J, 1/16W		C20003306M101S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R3218	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R3219	nsp	CHIP RES. 390J 1/16W1005REEL		C20003916M101S	
R3220	nsp	CHIP RES. 100KJ 1/16W1005REEL		C20001046M101S	
R3221	nsp	CHIP RES. 2.7K-J 1/16W-1005REEL		C20002726M101S	
R3222	nsp	CHIP RES. 270-J 1/16W-1005REEL		C20002716M101S	
R3223	nsp	R,CHIP THICK 470K-J,1/16W-1005REEL		C20004746M101S	
R3224	nsp	CHIP RES. 100J 1/16W1005REEL		C20001016M101S	
R3225	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S	
R3226	nsp	CHIP RES. 100J 1/16W1005REEL		C20001016M101S	
R3227	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S	
R3228	nsp	CHIP RES. 100KJ 1/16W1005REEL		C20001046M101S	
R3230	nsp	R,CHIP 15K-J,1/16W-1005REEL		C20001536M101S	
R3231	nsp	CHIP RES. 100J 1/16W1005REEL		C20001016M101S	
R3232	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R3234	nsp	CHIP RES. 100J 1/16W1005REEL		C20001016M101S	
R3235	nsp	R,CHIP THICK 120K-J,1/16W-1005REEL		C20001246M101S	
R3237	nsp	CHIP RES. 470J 1/16W1005REEL		C20004716M101S	
R3238	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R3239,3240	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R3241	nsp	CHIP RES. 390J 1/16W1005REEL		C20003916M101S	
R3242	nsp	CHIP RES. 100J 1/16W1005REEL		C20001016M101S	
R3243	nsp	CHIP RES. 2.7K-J 1/16W-1005REEL		C20002726M101S	
R3244	nsp	CHIP RES. 270-J 1/16W-1005REEL		C20002716M101S	
R3245	nsp	R,CHIP THICK 120K-J,1/16W-1005REEL		C20001246M101S	
R3247	nsp	CHIP RES. 470J 1/16W1005REEL		C20004716M101S	
R3248	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S	
R3249	nsp	CHIP RES. 100J 1/16W1005REEL		C20001016M101S	
R3250	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R3251	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S	
R3252	nsp	CHIP RES. 100J 1/16W1005REEL		C20001016M101S	
R3601	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R3602	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R3603-3605	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R3607	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R3609-3611	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R3625	nsp	R,CHIP 150K-D,1/16W-1608REEL		C20001541M160S	
R3626	nsp	R,CHIP THICK 47K-D,1/16W-1608REEL		C20004731M160S	
R3627	nsp	R,CHIP 150K-D,1/16W-1608REEL		C20001541M160S	
R3628	nsp	R,CHIP THICK 120K-D,1/16W-1608REEL		C20001241M160S	
R3629	nsp	R,CHIP 150K-D,1/16W-1608REEL		C20001541M160S	
R3631	nsp	R,CHIP 150K-D,1/16W-1608REEL		C20001541M160S	
R3632	nsp	R,CHIP THICK 300K-D,1/16W-1608REEL		C20003041M160S	
R3633	nsp	R,CHIP 150K-D,1/16W-1608REEL		C20001541M160S	
R3634	nsp	R,CHIP THICK 120K-D,1/16W-1608REEL		C20001241M160S	
R3645,3646	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S	
R3647	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R3649-3660	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R3661,3662	nsp	CHIP RES. 3.3KJ 1/16W1005REEL		C20003326M101S	
R3663,3664	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R3666-3669	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R3670,3671	nsp	CHIP RES. 3.3KJ 1/16W1005REEL		C20003326M101S	
R3672	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
R3673-3676	nsp	CHIP RES. 3.3KJ 1/16W1005REEL		C20003326M101S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R3677	nsp	R,CHIP 10K-J,1/16W		C20001036M111S	
R3678	nsp	R,CHIP THICK 4.7K-J,1/16W		C20004726M101S	
R3679	nsp	CHIP RES. 47KJ 1/16W1005REEL		C20004736M101S	
R3680	nsp	CHIP RES. 100KJ 1/16W1005REEL		C20001046M101S	
R3681	nsp	CHIP RES. 100J 1/16W1005REEL		C20001016M101S	
R3687,3688	nsp	CHIP RES. 22-J 1/16W-1005REEL		C20002206M101S	
R3689-3702	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
CAPACITORS GROUP					
C1003-1007	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1010	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1016	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C1023	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C1025	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C1027	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C1029	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C1031	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C1251-1257	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1258	nsp	C,CERAMIC 10UF-K/16V		D011106573200S	
C1259	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C1260	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1261	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C1262	nsp	C,CERAMIC 10UF-K/16V		D011106573200S	
C1269	nsp	C,CERAMIC 10UF-K/16V		D011106573200S	
C1301-1304	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1305	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C1306-1311	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1312	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C1313	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1314-1321	nsp	R,CHIP 0-J,1/16W		C20000006M101S	
C1323-1325	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1327	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1329-1331	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1333	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1335,1336	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1337	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1339	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1341	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1342	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1345	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1350	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1351	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1358	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1361	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1362	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1364	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1367	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1369	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1370	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C1373	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1377	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1381	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C1385	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1387,1388	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1391	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1393	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1395	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1396	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1398	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1401	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1402	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1407	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1410	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1411	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1412	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1415	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1416	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1418	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1419	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1420,1421	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1424	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1425	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1429	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1430	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1431	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1434,1435	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1439,1440	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1441	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1443,1444	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1445	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1446,1447	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1448	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1449	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1450,1451	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1452,1453	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1454-1461	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1462,1463	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1464	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1465	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1466	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1467	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1468,1469	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1470	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1472	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1474,1475	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1476	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1477,1478	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1479	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1480	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1481	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1482	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1484	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1485	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1486-1489	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1490	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C1491	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1492	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1494	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1495-1498	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1500	nsp	C,CERAMIC 0.1UF-K/25V		D011104774161S	
C1511,1512	nsp	C,CERAMIC 8PF-D/50V		D010080117160S	
C1513	nsp	C,CERAMIC 1UF-K/10V		D011105772161S	
C1514	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1516,1517	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1605,1606	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1607-1609	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1610	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1611-1613	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1614,1615	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1616-1620	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1621	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1622,1623	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1624	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1625	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1626-1632	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1633	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1634	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1635	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1636	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1637	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1639	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1640	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1642	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1643,1644	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1645	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1647	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1649	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1651,1652	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1653,1654	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1656,1657	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1659,1660	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1661,1662	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1663,1664	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1665	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C1666	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1667	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C1668,1669	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1670,1671	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1672	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1673,1674	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1675	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1676	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1677	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1678	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1679	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1680	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1681,1682	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1683	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C1690	nsp	C,CERAMIC 0.15uF-K/10V-1608REEL		D011154172160S	
C1691	nsp	C,CERAMIC 0.012uF-K/50V-1608REEL		D011123177161S	
C1692	nsp	C,CERAMIC 0.15uF-K/10V-1608REEL		D011154172160S	
C1693	nsp	C,CERAMIC 0.012uF-K/50V-1608REEL		D011123177161S	
C1694	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1700	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1702,1703	nsp	C,CERAMIC COG7PF-D/50V		D010070117160S	
C1704	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1705,1706	nsp	C,CERAMIC 1UF-K/10V		D011105772161S	
C1707	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1709,1710	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1711	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C1712	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1713	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C1721	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1730	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1801	nsp	C,CERAMIC 10UF-K/16V		D011106573200S	
C1810-1825	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1826	nsp	C,CERAMIC 10UF-K/16V		D011106573200S	
C1835-1851	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C1853	nsp	C,CERAMIC 1UF-K/10V		D011105772161S	
C1854	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2001	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2002	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2003	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2004	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2005	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2006	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2007	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2008	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2009	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2010	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2011,2012	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2013	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2014-2016	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2017,2018	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2022	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2023,2024	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2025	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2026	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2027	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2028	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2029	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2030	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2031,2032	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2033	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2034	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2035,2036	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2037	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2038	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2039	nsp	C,CERAMIC 9PF-D/50V		D011090117101S	
C2040	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2041	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C2042,2043	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2044	nsp	C,CERAMIC 9PF-D/50V		D011090117101S	
C2045	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2046	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2047,2048	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2049-2051	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2052	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2053	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2054,2055	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2056	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2057	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2058	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2059	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2060	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2061	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2062,2063	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2064	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2065	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2066	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2067,2068	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2071,2072	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2073-2075	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2076	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2077	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2078	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2079	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2080	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2081	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2082	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2083-2085	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2086	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2087	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2088-2092	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2093	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2094	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2095	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2096	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2097	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2098	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2099	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2100	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2101	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2102	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2103-2106	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2107	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2108	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2109	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2110,2111	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2112	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2113,2114	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2115	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2203-2205	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2206,2207	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C2208-2210	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2211,2212	nsp	C,CERAMIC 12PF-J/50V		D011120167101S	
C2213,2214	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2215	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2216	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2217	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2219	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2220	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2221	nsp	C,CERAMIC 0.022UF-K/25V		D011223777160S	
C2222-2226	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2228	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2230-2237	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2238	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S	
C2239	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2401-2405	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2406	nsp	C,CERAMIC 2.2UF-M/6.3V-1005REEL		D011225581100S	
C2407	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2408	nsp	C,CERAMIC 1UF-K/10V		D011105772161S	
C2409,2410	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2411	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2412	nsp	C,CERAMIC 2.2UF-M/6.3V-1005REEL		D011225581100S	
C2413	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2415,2416	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2417	nsp	C,CERAMIC 1UF-K/10V		D011105772161S	
C2418	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2419	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2420,2421	nsp	C,CERAMIC 1UF-K/10V		D011105772161S	
C2422-2425	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2426	00D9630338606	C,ELECT 10UF-MVG/16V		D050100083470S	
C2427-2432	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2435,2436	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2437,2438	nsp	C,CERAMIC 2200PF-K/50V		D011222177101S	
C2439-2445	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2447	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2448	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2450	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2451	963134000450S	C,ELECT 100UF-MVG/16V		D050101083660S	
C2454-2461	nsp	C,CERAMIC X7R3900PF-K/50V		D011392777160S	
C2465-2468	nsp	C,CERAMIC 680pF-J 50V		D010681167160S	
C2469,2470	nsp	C,CERAMIC 470PF-J/50V		D010471167160S	
C2471-2476	nsp	C,CERAMIC 680pF-J 50V		D010681167160S	
C2477,2478	nsp	C,CERAMIC 470PF-J/50V		D010471167160S	
C2479,2480	nsp	C,CERAMIC 680pF-J 50V		D010681167160S	
C2481,2482	00D9630338606	C,ELECT 10UF-MVG/16V		D050100083470S	
C2483-2485	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S	
C2486	963134000450S	C,ELECT 100UF-MVG/16V		D050101083660S	
C2487	nsp	C,CERAMIC 0.01UF-K/50V		D011103777160S	
C2488	963134000450S	C,ELECT 100UF-MVG/16V		D050101083660S	
C2601	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C2602,2603	nsp	C,CERAMIC 12PF-J/50V		D011120167101S	
C2605-2608	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2609-2619	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C2620-2622	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C2623	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C2624	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2627-2630	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2631-2640	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C2641-2643	nsp	C,CERAMIC 1000PF-K/50V		D01102177101S	
C2645	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2648	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2652,2653	nsp	C,CERAMIC 1000PF-K/50V		D01102177101S	
C2657	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C2659	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C2660-2667	nsp	C,CERAMIC 1000PF-K/50V		D01102177101S	
C2676,2677	nsp	C,CERAMIC 1000PF-K/50V		D01102177101S	
C2678	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C2679,2680	nsp	C,CERAMIC 1000PF-K/50V		D01102177101S	
C2801	nsp	C,CERAMIC 0.022UF-K/25V		D01122377160S	
C2803	nsp	C,CERAMIC 1UF-K/10V		D01105772161S	
C2806	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C2807,2808	nsp	C,CERAMIC 10PF-D/50V		D01100117101S	
C2811	nsp	C,CERAMIC 1UF-K/10V		D01105772161S	
C2812	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C2813	nsp	C,CERAMIC 470PF-K/50V		D011471177101S	
C2814	nsp	C,CERAMIC 1UF-K/10V		D01105772161S	
C2815	nsp	C,CERAMIC 1000PF-K/50V		D01102177101S	
C2816	nsp	C,CERAMIC 1000PF-K/50V		D01102777160S	
C2817	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2818	nsp	C,CERAMIC 1000PF-K/50V		D01102777160S	
C2819	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2821	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2823	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2824-2828	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C2829	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2831	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C2832	nsp	C,CERAMIC 1000PF-K/50V		D01102177101S	
C2833	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C2834	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C2842-2845	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C2846	nsp	C,CERAMIC 1000PF-K/50V		D01102177101S	
C2850-2852	nsp	C,CERAMIC 0.001UF-J/50V	U1B	D010102167160S	
C2851,2852	nsp	C,CERAMIC 330PF-J/50V	N1B, N1SG, K1B	D010331167160S	
C2853	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C3005	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C3007	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C3009	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C3010	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C3011-3014	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C3015,3016	nsp	C,CERAMIC 12PF-J/50V		D011120167101S	
C3017-3019	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C3021,3022	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C3202	nsp	C,CERAMIC 220PF-K/50V		D011221177101S	
C3205,3206	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C3210	nsp	C,CERAMIC 0.1UF-K/50V		D01104177101S	
C3211	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D01103174101S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C3212	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C3213-3216	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C3414-3416	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C3417	nsp	C,CERAMIC 100PF-J/50V		D011101167101S	
C3418	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C3419-3424	nsp	C,CERAMIC 100PF-J/50V		D011101167101S	
C3601-3605	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C3619-3623	nsp	C,CERAMIC 10UF-K/16V		D011106573200S	
C3625-3629	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S	
C3631-3635	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C3637-3641	nsp	C,CERAMIC 10UF-K/16V		D011106573200S	
C3643-3647	nsp	C,CERAMIC 10UF-K/16V		D011106573200S	
C3649-3653	nsp	C,CERAMIC 15PF-J/50V		D010150167160S	
C3667-3669	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C3673-3676	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C3677	nsp	CER. CAP. X7R)0.01UFK/25V1005REEL		D011103174101S	
C3678	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C3682	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S	
C3695-3701	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C3744	nsp	C,CERAMIC 1UF-K/10V		D011105772161S	
C3752	nsp	C,CERAMIC 1UF-K/10V		D011105772161S	
C3788	nsp	C,CERAMIC X7R0.015UF-K/50V		D011153777160S	
C3789	963134501220S	C,ELECT 470UF-MVG/6.3V (RV0)		D050471081330S	
C3790	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C3792	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C3795	nsp	C,CERAMIC 1UF-K/10V		D011105772161S	
C3797	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C3799	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
C3804	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S	
OTHERS PARTS GROUP					
L1251-1253	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S	
L1301-1313	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S	
L1602	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S	
L1605-1615	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S	
L1617-1619	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S	
L1801	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S	
L2601-2603	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S	
L2601,2602	nsp	COIL,CHIP DLW21SN900HQ2L		D311201219000S	
L2804	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S	
L2806	nsp	COIL,CHIP DLW21SN181SQ2L		D311201211810S	
L2807-2810	nsp	COIL,BEAD CBW201209U221T		D340201202210S	
L2812	nsp	COIL,BEAD CBW160808U121T		D340160811210S	
L2813	nsp	CHIP RES. 0-J 1/16W-1608REEL	U1B	C20000006M160S	
L2814 , L2815	nsp	CHIP RES. 0-J 1/16W-1609REEL	U1B	C20000006M161S	
L2814 , L2815	nsp	CHIP RES. 1.5UH-J 1/16W-1608REEL	N1B, N1SG, K1B	D311160811520S	
L3401-3404	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S	
L3601-3610	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S	
L3613-3622	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S	
L3625-3627	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
L3628	nsp	COIL, BEAD CBW160808U121T		D340160811210S	
X1301	141810045507S	CRYSTAL CHIP FCX-04(27MHz)		E80527R000080S	
X1601	141810045507S	CRYSTAL CHIP FCX-04(27MHz)		E80527R000080S	
X2001	943141100020S	CRYSTAL CHIP FCX-04(21.875MHz)		E80521R875080S	
X2201	141810046500S	CRYSTAL CHIP FCX-04(24.576MHz)		E80524R576080S	
X2601	141810049509S	CRYSTAL CHIP FCX-04(24MHz)		E80524R000080S	
X3001	00D3991038900	CRYSTAL CHIP FCX-03(12MHz)		E805120000020S	
N1001	963643100120S	HDMI CONNECTOR 19P		L109100190160S	
U1001	236810057608S	IC LOGIC ADV3002BSTZ		J040300205510S	
N1002	963643100120S	HDMI CONNECTOR 19P		L109100190160S	
N1003	963643100120S	HDMI CONNECTOR 19P		L109100190160S	
N1004	963643100120S	HDMI CONNECTOR 19P		L109100190160S	
N1251	nsp	CN.WAFER AD3PBJ19GO-REV_B		L109100190170S	
U1251	nsp	IC, LOGIC AD8195		J040819505510S	
N1252	nsp	CN.FPC 23P		L130100162330S	
N1301	nsp	CN.FPC 23P		L130100162330S	
U1301	943239100760S	IC, LOGIC TC74VHC4051AFT TOSHIBA		J040744051360S	
N1302	963643100120S	HDMI CONNECTOR 19P		L109100190160S	
U1302	963236101220D	IC, LOGIC ADV7850 HDMI 1.4A		J040785005510S	
U1303	00D2623436907	IC, LOGIC TC74VHC244FT		J040742445530S	
U1601	963236101320S	IC, LOGIC-ENCODER ADV8003-3		J045800303010S	
N1602	963643100120S	HDMI CONNECTOR 19P		L109100190160S	
U1602	963248100710S	IC MEMORY FLASH (MX25L6406EM2I-12G)		J005256401210S	
U1801	nsp	IC, MEMORY-RAM K4T51163QJ-BCE7		J001451163370S	
U1802	nsp	IC, MEMORY-RAM K4T51163QJ-BCE7		J001451163370S	
U2001	nsp	IC ANALOG ADSP21487KSWZ-3B3020		J080214875530S	
U2002	943246012690S	IC MEMORY-RAM(W9864G6JH-6)		J001986466010S	
U2003	963248101020P	8952390000040 DNSC3900 IC MEMORY FLASH (EN29LV160BB-70TIP)		J005291600050S	
K2201	963646012340S	TER, RCA 2PIN 206A-07	NOTE: When update Firmware, please confirm a last version in SDI. Use the service board after updating it.	G601206A0700YS	
U2201	00D9630237503	MODULE JSR1165-C		E100116500040S	
U2202	00D9630237503	MODULE JSR1165-C		E100116500040S	
U2203	236810062608S	IC, LOGIC-INTERFACE LC89058WA-E		J046890580030S	
U2204	00D2623077900	IC TC74VHC04FT		J040740405580S	
U2205	943236100020S	IC EPM3032A-TC44		J003303205510S	
U2206	00D2623437906	IC TC74VHCT244AFT		J040742445540S	
U2207	963239002150S	IC SN74LVC244APWR		J040742440230S	
U2401	943239100890S	IC, LOGIC-D/A CONVER PCM5100		J042510005510S	
U2402	231310009508S	IC PQ033DNA1ZPH		J126033010010S	
U2403	236810086505S	IC AK5358BET-E2		J043535805520S	
U2404	236810073509S	IC AK4358VQ-L		J042435800010S	
U2406	00D2631289900	IC AZ4580M		J121458000020S	
U2407	00D2631289900	IC AZ4580M		J121458000020S	
U2408	00D2631289900	IC AZ4580M		J121458000020S	
U2409	00D2631289900	IC AZ4580M		J121458000020S	
U2602	nsp	IC, ANALOG DM860A NETWORKED		J080860A05510S	
U2603	nsp	IC MEMORY FLASH (H27U1G8F2BTR)		J005270820020S	
U2604	963246100740D	IC, MEMORY-RAM A3V56S30FTP-G6		J001030563060S	
U2605	963246100740D	IC, MEMORY-RAM A3V56S30FTP-G6		J001030563060S	
N2801	nsp	CN.WAFER 5P 20010-05		L101200100510S	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
N2802	963643100130S	JACK,MODULAR RJ45		G4060RJ450120S	
U2802	nsp	IC,LINEAR-DRIVER LAN8720A		J127872005510S	
U2803	00D2623711004	IC LOGIC SAA7121H		J045712100010S	
U2805	nsp	IC,LOGIC-DECODER MF1337S3959		J044337395910S	
U2806	nsp	IC,LINEAR-DRIVER NCP380HJU		J127380150010S	
U3001	963262012150M	MODULE REMOCON R94EV1A		E940941003610S	
K3002	00D9630244703	JACK,D3.5 EARPHONE		G40130802000YS	
U3002	963243101110S	IC CPU MICRO PROCESS (R5F56108VNFP)	NOTE When update Firmware, please confirm a last version in SDI. Use the service board after updating it.	8952500700010	
U3003	943239100720S	IC, MEMORY-EEPROM R1EX24256BSAS0A		J000242565570S	
U3202	00D2623437906	IC TC74VHCT244AFT		J040742445540S	
N3401	nsp	CN,WAFER C125Z2-13		L109012521320S	
N3402	nsp	CN,WAFER C125Z2-09		L109012520920S	
N3403	nsp	CN,WAFER C125Z2-31		L109012523120S	
N3404	nsp	CN,WAFER C125Z2-317P		L109012520720S	
N3405	nsp	CN,WAFER 5P 20010-05		L101200100510S	
N3406	nsp	CN,WAFER C125Z2-07 7P		L109012520720S	
N3407	nsp	CN,WAFER C125Z2-23 23P		L109012522320S	
N3408	nsp	CN.FPC 40P 10022HS-40C		L130100220400S	
N3601	nsp	CN,WAFER 5P SMW250-5P		L102050010040S	
U3601	nsp	IC EX3AV		J048030030010S	
U3602	nsp	IC EX3AV		J048030030010S	
U3603	nsp	IC EX3AV		J048030030010S	
U3604	nsp	IC EX3AV		J048030030010S	
U3605	nsp	IC EX3AV		J048030030010S	
U3607	231310009508S	IC PQ033DNA1ZPH		J126033010010S	
U3608	943239100730S	IC,LINEAR-RESET PST8448UR		J125844800010S	
	nsp	BRACKET SR5007U1B SPTH		4010215566000S	

RS232 PCB UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
IC804	0002631289900	IC AZ4580M		J121458000020S	
IC4700	0002631286903	IC PQ120DNA1ZPH 12V 1A		J126120010010S	
IC4701	236610090504S	IC ILX3232D		J046323200020S	
IC4702	231310009508S	IC PQ033DNA1ZPH		J126033010010S	
Q4700	943215500020S	TR 2SA RT1P141C		J520101411210S	
Q4701	943216500020S	TR 2SC RT1N141C		J522101411210S	
Q4702,4703	943215500020S	TR 2SA RT1P141C		J520101411210S	
Q4704	943214500020S	TR 2SC 2SC3052		J522305200050S	
Q4705	943216500020S	TR 2SC RT1N141C		J522101411210S	
D4700	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST		K005041480230S	
D4703	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST		K005041480230S	
ZD4700	963202500400S	D,ZENER ZJ16B-0.5W/5MA-52MM SEMTECH		K06016R044522S	
CAPACITORS GROUP					
C4701	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S	
C4702,4703	0002544573981	C,ELECT 10UF-M/50V		D040100087070S	
C4704-4706	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4707	0002544573981	C,ELECT 10UF-M/50V		D040100087070S	
C4709	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4711,4712	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4714	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4716,4717	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4718,4719	nsp	C,CERAMIC 33PF-J/50V		D010330167160S	
C4725,4726	nsp	C,CERAMIC 1UF-K/16V		D011105173161S	
C4727-4729	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4730,4731	0002544573981	C,ELECT 10UF-M/50V		D040100087070S	
C4733	0002544573981	C,ELECT 10UF-M/50V		D040100087070S	
C4734	nsp	C,CERAMIC 470PF-J/50V		D010471167160S	
C4737-4739	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S	
C4742	nsp	C,CERAMIC 470PF-J/50V		D010471167160S	
C4743	0002544573981	C,ELECT 10UF-M/50V		D040100087070S	
C4745,4746	0002544573981	C,ELECT 10UF-M/50V		D040100087070S	
OTHERS PARTS GROUP					
CN4702	nsp	CN,WAFER C125Z2-07 7P		L109012520720S	
CP4700	nsp	CN,WAFER C125Z1-09 9P		L109012510920S	
CP4701	nsp	CN,WAFER C125Z1-13 13P		L109012511320S	
CP4702	nsp	CN,WAFER C125Z1-07 7P		L109012510720S	
JACK4700	0009630244703	JACK,D3.5 EARPHONE		G40130802000YS	
JACK4701	963646012090S	TER RCA 2PIN RCA-206B-02(OR,OR)		G601206B0200YS	
JACK4702	000205130500S	CN,WAFER 9P		L103090090030S	
JACK4703	963643012080M	JACK,DIN DIN-901B(MXJACK)		G403901B0000YS	