DENON

Ver. 1

SERVICE MANUAL

MODEL	JP	E3	E2	EK	EA	E1	E1C	E1K
AVR-X4100W	✓	✓	✓					

INTEGRATED NETWORK AV 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.

DENON

D&M Holdings Inc.

CONTENTS

ABOUT THIS MANUAL

Read the following information before using the service manual.

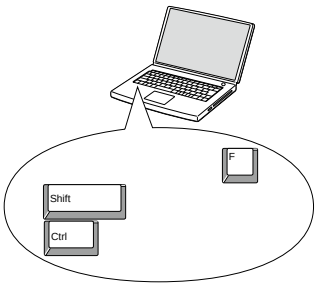
What you can do with this manual

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 circuit diagrams, block diagrams, and parts lists.

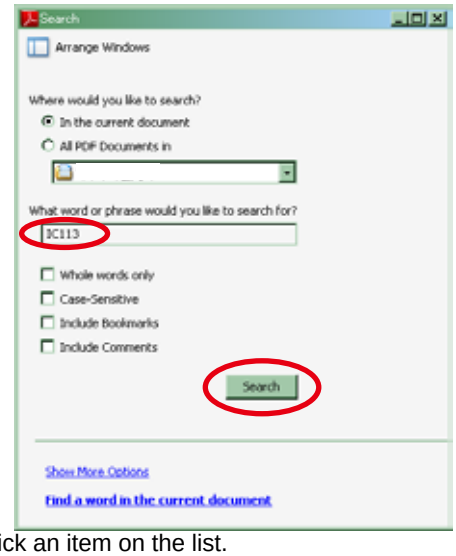
1.Press **Ctrl+Shift+F** on the keyboard.

- 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.



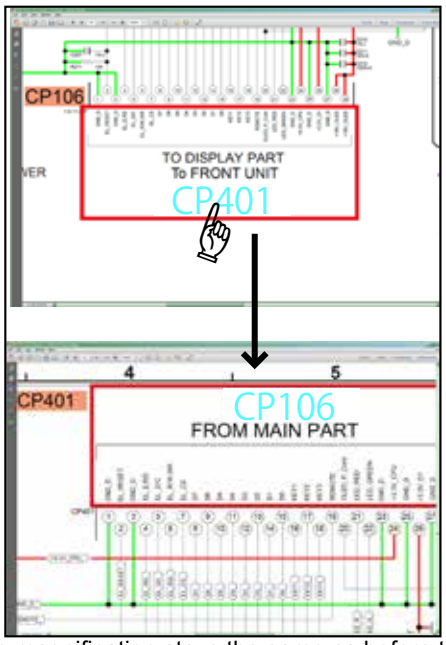
3.Click an item on the list.

• 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.

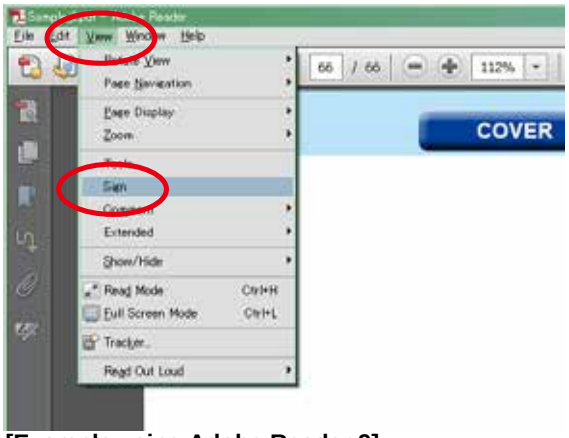
Using Adobe Reader (Windows version)

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.



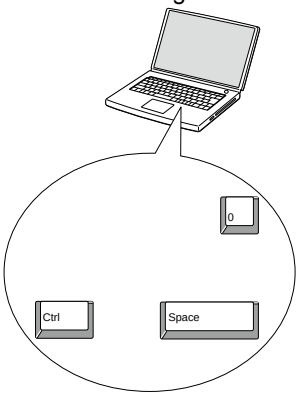
[Example using Adobe Reader 9]
On the **"Document"** menu, click **"Sign"**.

Magnify schematic / printed circuit board diagrams - 1

(Ctrl+Space, mouse operation)

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

- The selected area is magnified.

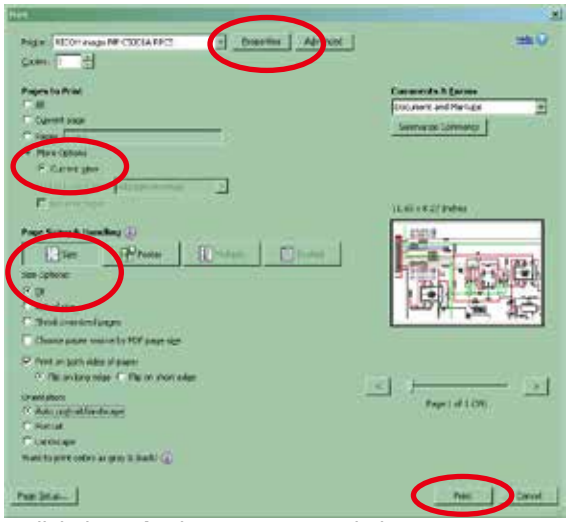


- When you want to move the area shown, hold down **Space** and drag the mouse.
- When you want to show a full page view, press **Ctrl+0** on the keyboard.

Print a magnified part of the manual

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

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



- **Properties**
  Click this button and check that the printer is set to a suitable paper size.
- **Page to print**
  Select the following checkbox.
  "**More Options**" : "**Current View**"
- **Page Sizing & Handling**
  Select the following checkbox.
  "**Size**" / "**Size Options**" : "**Fit**"

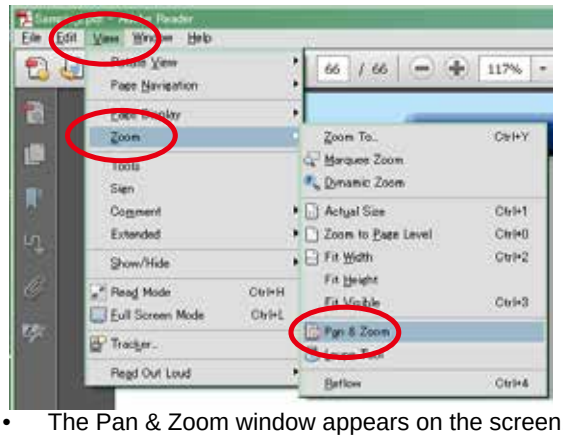
4. Click the **Print** button to start printing.

Magnify schematic / printed circuit board diagrams - 2

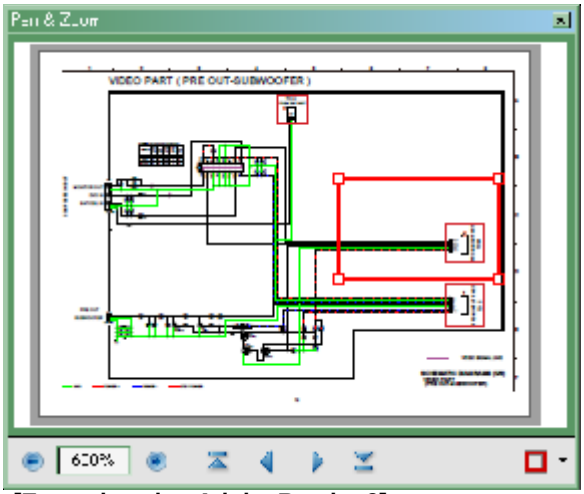
(Pan & Zoom function)

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.



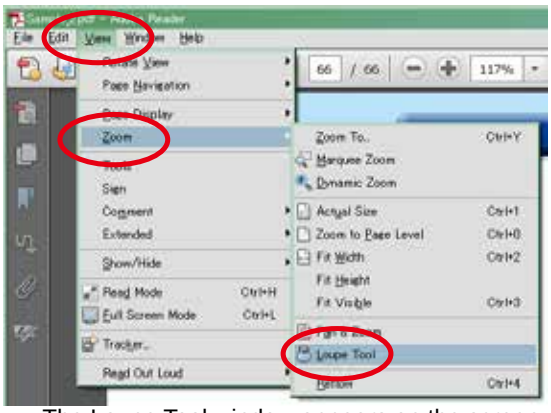
[Example using Adobe Reader 9]
On the **"Tools"** menu, point to **"Select & Zoom"**, and then click **"Pan & Zoom Window"**.

Magnify schematic / printed circuit board diagrams - 3

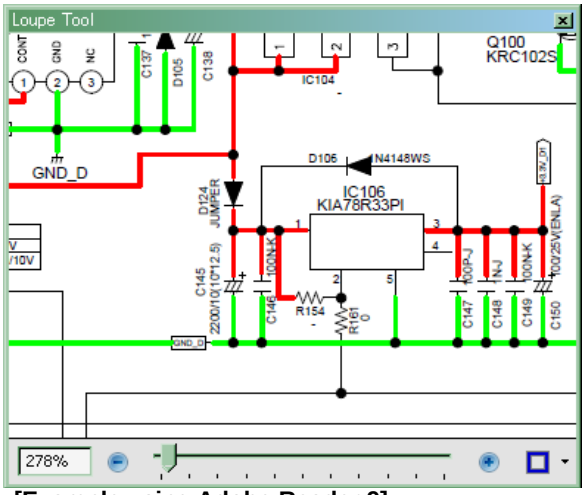
(Loupe Tool function)

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

[Example using Adobe Reader X]
On the **"View"** menu, point to **"Zoom"**, and then click **"Loupe Tool"**.



- The Loupe Tool window appears on the screen.



[Example using Adobe Reader 9]
On the **"Tools"** menu, point to **"Select & Zoom"**, and then click **"Loupe Tool Window"**.

SAFETY PRECAUTIONS

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

leakage current check

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

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

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

◎ **Heed the cautions!**

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

◎ **Cautions concerning electric shock!**

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

(2) There are high voltage parts inside. Handle with extra care when the set is energized.

◎ **Caution concerning disassembly and assembly!**

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

◎ **Use only designated parts!**

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). Be sure to use parts which have the same properties for replacement. The burrs have the same properties. In particular, for the important safety parts that are indicated by the ⚠ 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 seasons, 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 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the set is defective.

WARNING:

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

NOTICE:

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

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

NOTE FOR PARTS LIST

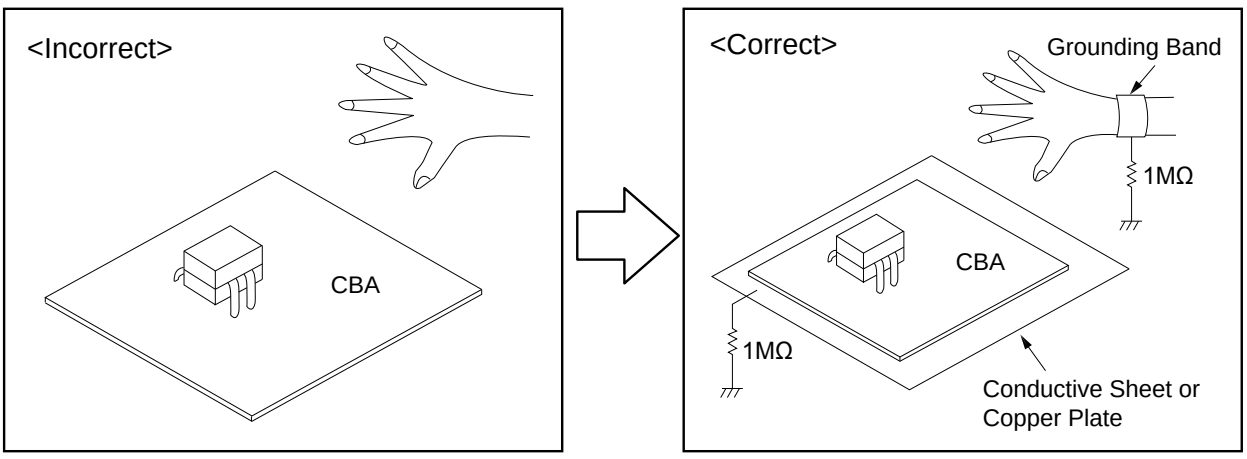
1. Parts indicated by **"nsp"** on this table cannot be supplied.
2. When ordering a part, make a clear distinction between "1" and "I" (i) to avoid mis-supplying.
3. A part ordered without specifying its part number can not be supplied.
4. Part indicated by " ★ " mark is not illustrated in the exploded view.

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

INSTRUCTIONS FOR HANDLING SEMI-CONDUCTORS AND OPTICAL UNIT

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

1. Ground for Human Body
   Be sure to wear a grounding band (1 MΩ) that is properly grounded to remove any static electricity that may be charged on the body.
2. Ground for Workbench
   Be sure to place a conductive sheet or copper plate with proper grounding (1 MΩ) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing



Personal notes:

TECHNICAL SPECIFICATIONS

❑ Audio section

- **Power amplifier**

Rated output :

Front :

125W+125W (8Ω, 20Hz - 20kHz with 0.05% T.H.D.)
165W+165W (6Ω, 1kHz with 0.7% T.H.D)

Center :

125W (8Ω, 20Hz - 20kHz with 0.05% T.H.D.)
165W (6Ω, 1 kHz with 0.7 % T.H.D.)

Surround :

125W+125W (8Ω, 20 Hz - 20 kHz with 0.05% T.H.D.)
165W+165W (6Ω, 1 kHz with 0.7 % T.H.D.)

Surround back / Height1 / Front wide/Height2 :

125W+125W (8Ω, 20 Hz - 20 kHz with 0.05% T.H.D.)
165W+165W (6Ω, 1 kHz with 0.7 % T.H.D.)

Dynamic power :

130 W x 2-channel (8 Ω)
190 W x 2-channel (4 Ω)

Output connectors: 4 - 16Ω

❑ Analog section

Input sensitivity/Input impedance : 200 mV/47 kΩ
Frequency response : 10 Hz - 100 kHz — +1, -3 dB(Direct mode)
S/N : 102 dB(IHF-A, weighted, Direct mode)
Distortion : 0.005 % (20 Hz – 20 kHz) (Direct mode)
Rated output : 1.2 V

❑ Digital section

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

Digital input : Format — Digital audio interface

❑ Phono equalizer section

Input sensitivity : 2.5 mV
RIAA deviation : ±1 dB (20 Hz to 20 kHz)
S/N : 74 dB (IHF-A)
Distortion factor : 0.03 % (1 kHz, 3 V)

❑ Video section

- **Standard video connectors**

Input/output level and impedance : 1 Vp-p, 75 Ω
Frequency response : 5 Hz – 10 MHz — 0, –3 dB

- **Color component video connector**

Input sensitivity/Input impedance : Y signal — 1 Vp-p, 75 Ω
PB / CB signal — 0.7 Vp-p, 75 Ω
PR / CR signal — 0.7 Vp-p, 75 Ω

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

❑ Tuner section

FM

Reception frequency range : **FM** 87.5 MHz - 107.9 MHz(for E3)
FM 87.5 MHz - 108.0 MHz(for E2,E1. E1C)
FM 76.0 MHz - 90.0 MHz(for JP)
AM 520 kHz - 1710 kHz(for E3)
AM 522 kHz - 1611 kHz(for E2,E1. E1C)
AM 522 kHz - 1629 kHz(for JP)

Effective sensitivity : **FM** 1.2 μV (12.8dBf)
AM 18 μV

50 dB sensitivity : MONO — 2.8 μV (20.2 dBf)

S/N ratio : MONO — 70 dB (IHF-A weighted, Direct mode)
STEREO — 67 dB (IHF-A weighted, Direct mode)

Distortion : MONO — 0.7 % (1 kHz)
SRETEO — 1.0 % (1 kHz)

❑ Wireless LAN section

Network type
(wireless LAN standard): Conforming to Wi-Fi®∗1

Security : WEP 64 bit, WEP 128 bit
WPA/WPA2-PSK (AES)
WPA/WPA2-PSK (TKIP)

Radio frequency : 2.4 GHz

No. of channels : 1 – 11 ch (for E3)
1 – 13 ch (for E2, E1, E1C, JP)

∗► The Wi-Fi® CERTIFIED Logo and the Wi-Fi CERTIFIED On-Product Logo are registered trademarks of the Wi-Fi Alliance.

❑ Bluetooth section

Communications system : Bluetooth Version 2.1 + EDR (Enhanced Data Rate)

Transmission power : Maximum 2.5 mW (Class 2)

Maximum communication range : Approx. 32.8 ft/10 m in line of sight

Frequency band : 2.4 GHz band

Modulation scheme : FHSS (Frequency-Hopping Spread Spectrum)

Supported profiles : A2DP 1.2 (Advanced Audio Distribution Profile)
AVRCP 1.4 (Audio Video Remote Control Profile)

Corresponding codec : SBC, AAC

Transmission range (A2DP) : 20 Hz - 20,000 Hz

❑ General

Power supply : (for E3) : AC 120 V, 60 Hz
(for E2/E1) : AC 230 V, 50 Hz / 60Hz
(for E1C) : AC 220 V, 50 Hz
(for JP) : AC 100V、50/60Hz

Power consumption : 670W

Power consumption in standby mode : 0.1W

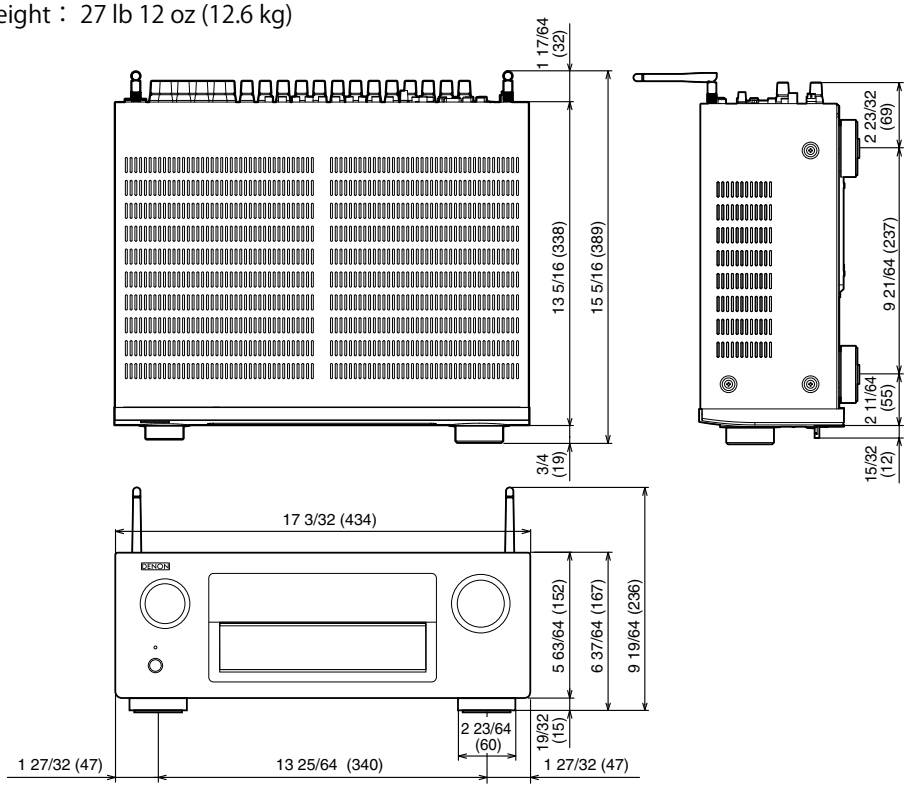
Power consumption in CEC standby mode : 0.5W

Power consumption in network standby mode : 2.7W

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

DIMENSION

Unit： in. (mm) Weight： 27 lb 12 oz (12.6 kg)



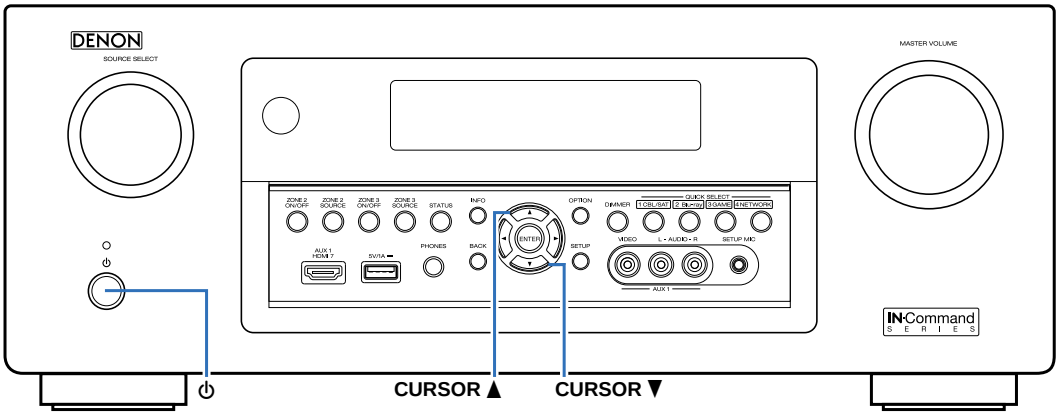
PRECAUTIONS DURING SERVICE

Initializing This Unit

Initialize this unit if you have replaced the microcomputer, one of the parts around the microcomputer, or the digital PCB.

1. Press the power button to turn off the power.
2. Hold down buttons "**CURSOR ▲**" and "**CURSOR ▼**" at the same time and press the power button to turn on the power.
3. Release the buttons after confirming that the display flashes in intervals of approximately 1 second.
   ＊ The unit is initialized.

NOTE： • If the status in step 3 does not occur, start again from step 1.
• Initializing the device restores settings configured by the user to the factory settings. Take note of your settings beforehand and reconfigure them after initialization.



Service Jigs

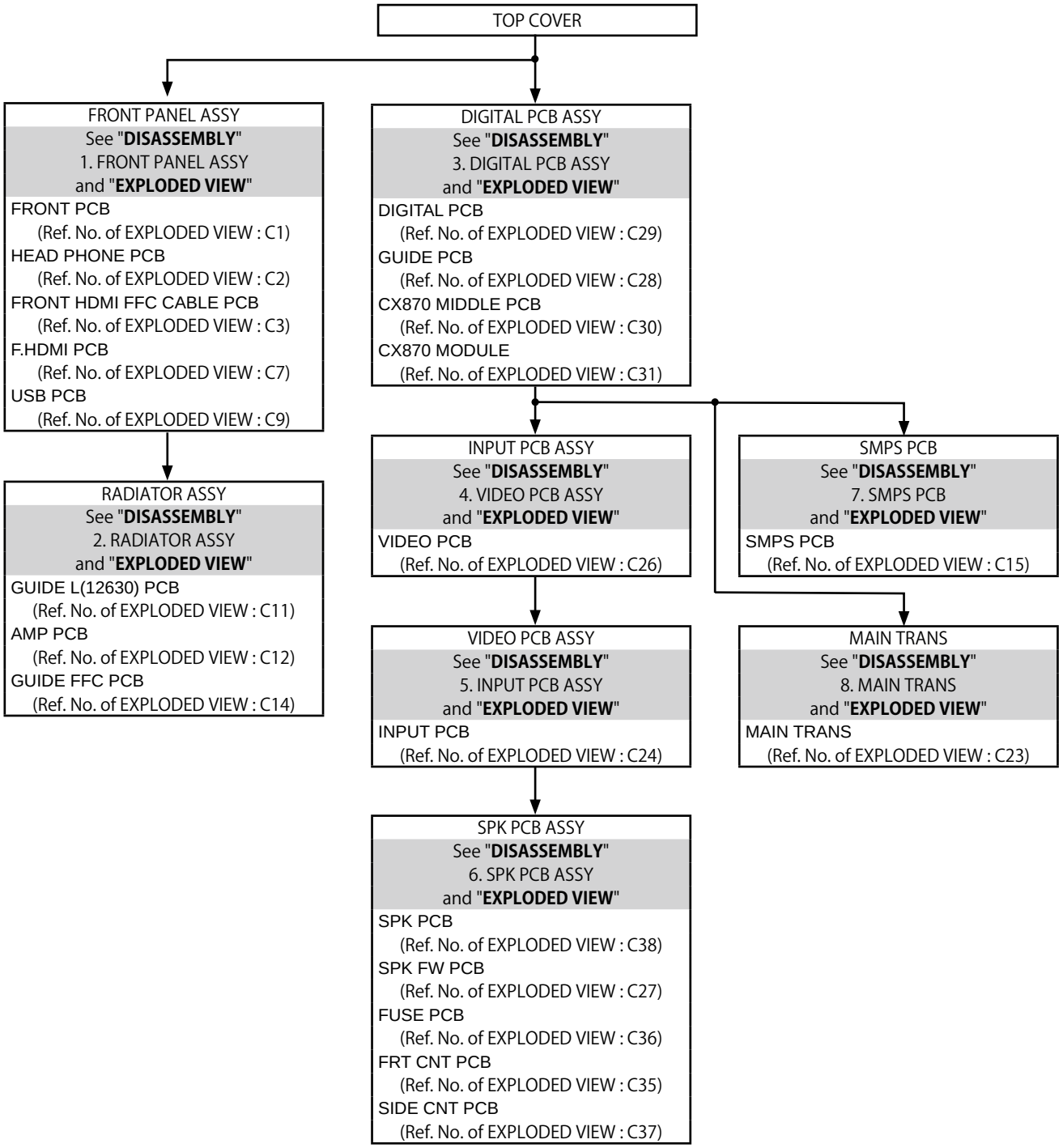
The following jigs (extension cable kit) are used when repairing the PCBs.
Order the jigs from your dealer if necessary.

8U- 110084S	:	EXTENSION UNIT KIT	:	1 Set
8U- 110136S	:	EXTENSION UNIT KIT	:	1 Set

(See 78 page)

DISASSEMBLY

- Remove each part in the order of the arrows below.
- Reassemble removed parts in the reverse order.
- Read **"Precautions During Work"** before reassembling removed parts.
- If wire bundles are removed or moved during adjustment or part replacement, reshape the wires after completing the work. Failure to shape the wires correctly may cause problems such as noise.

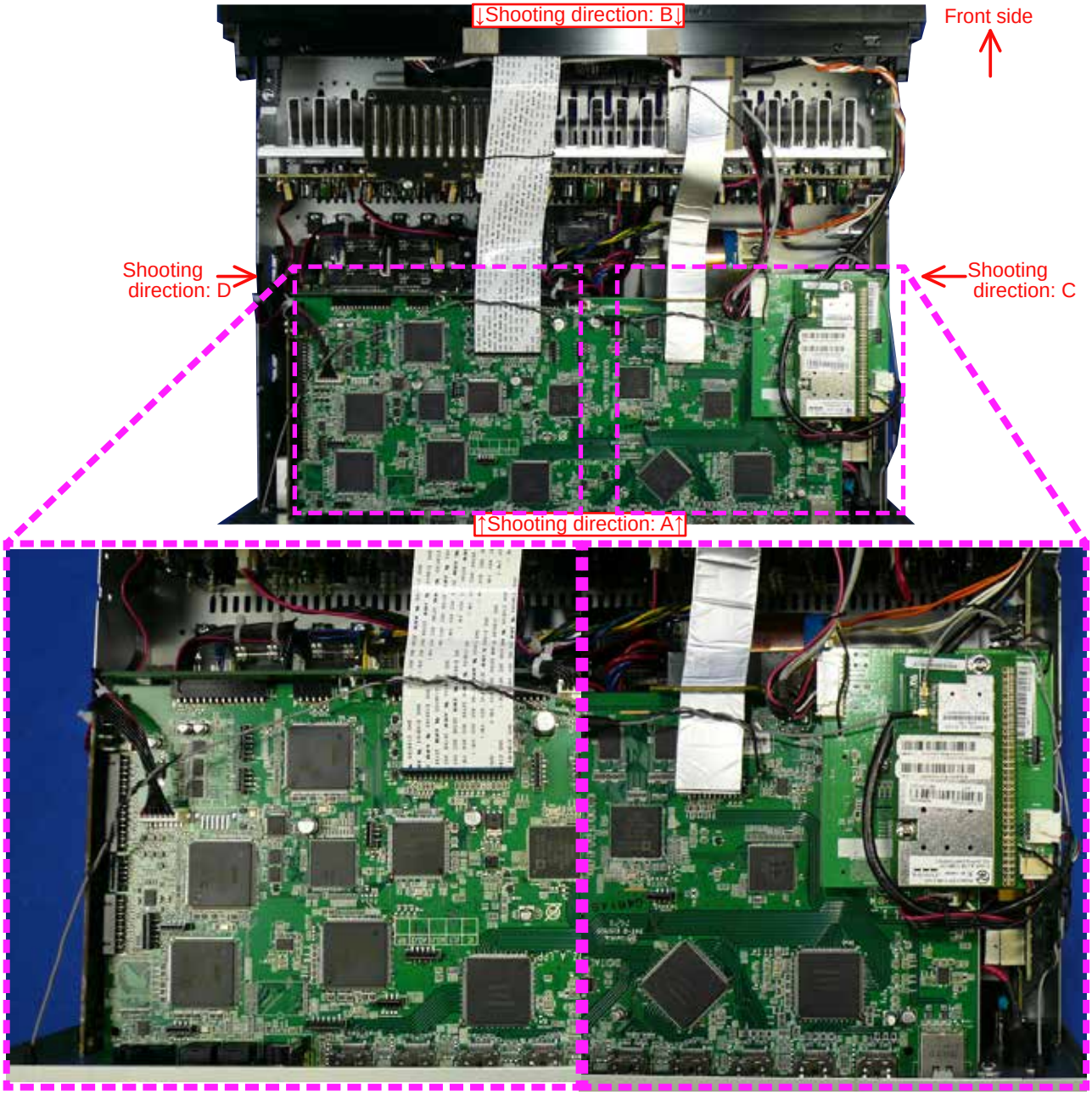


Explanatory Photos for DISASSEMBLY

- The angles from which the photos are taken are shown by "**Photo angle**：**A, B, C, D**".
- See the diagram below about the shooting direction of each photograph.
- Photographs with no shooting direction indicated were taken from the top of the unit.
- The photograph is AVR-X4100WE3 model.

The viewpoint of each photograph

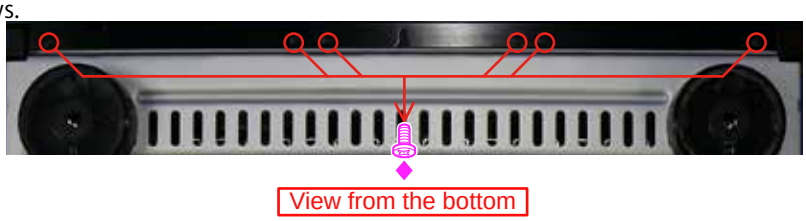
(Shooting direction:X) ［View from the top］



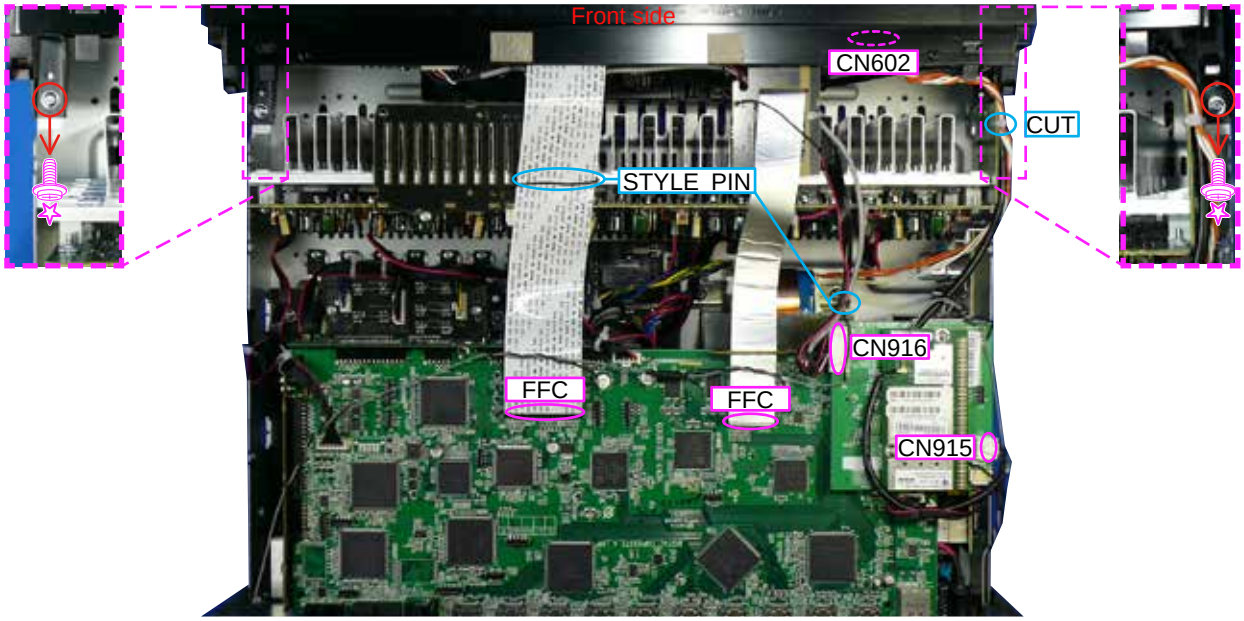
1. FRONT PANEL ASSY

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

(1) Remove the screws.



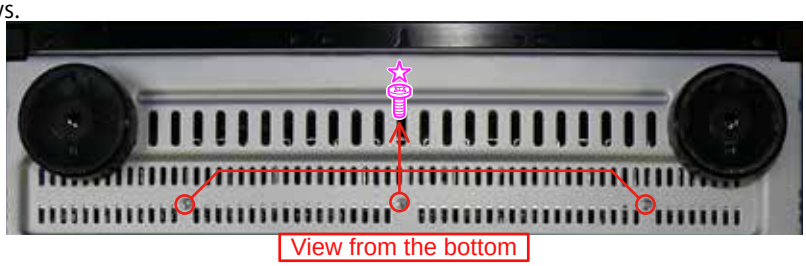
(2) Cut the wire clamp, then remove the connector wires and FFC. Remove the screws.



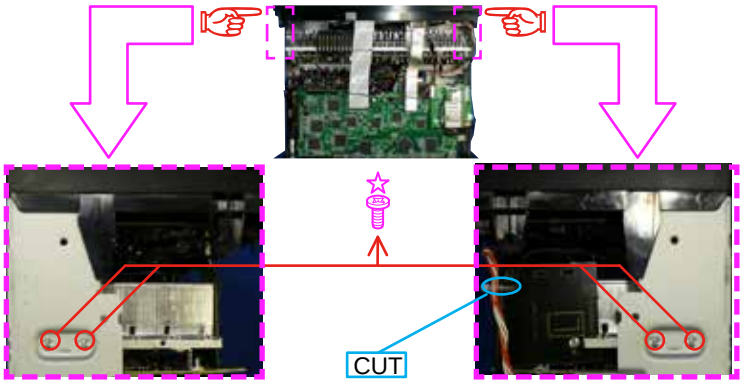
2. RADIATOR ASSY

Proceeding : TOP COVER → FRONT PANEL ASSY → RADIATOR ASSY

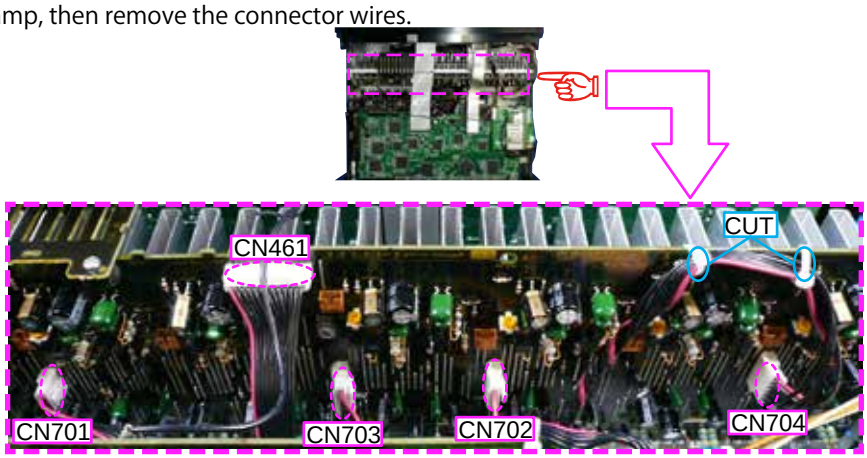
(1) Remove the screws.



(2) Cut the wire clamp. Remove the screws.



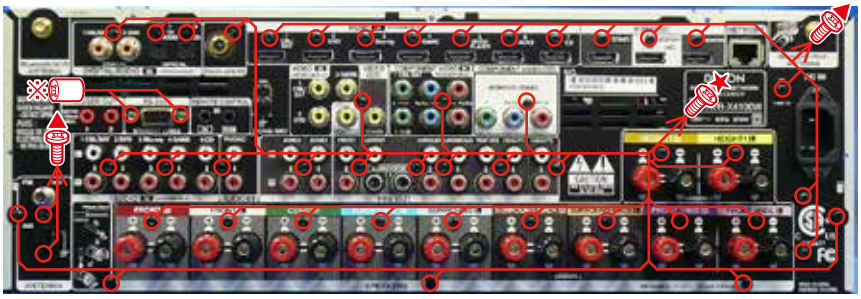
(3) Cut the wire clamp, then remove the connector wires.



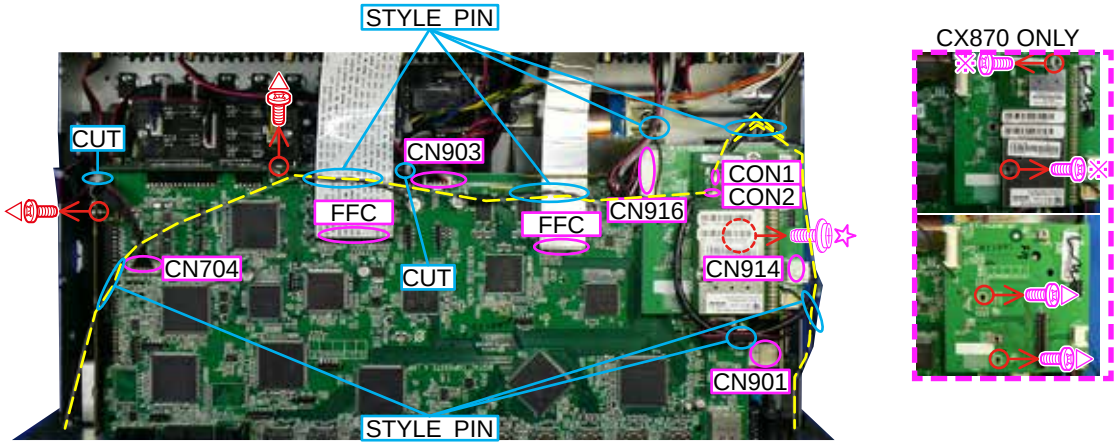
3. DIGITAL PCB

Proceeding : TOP COVER → BACK CHASSIS → DIGITAL PCB

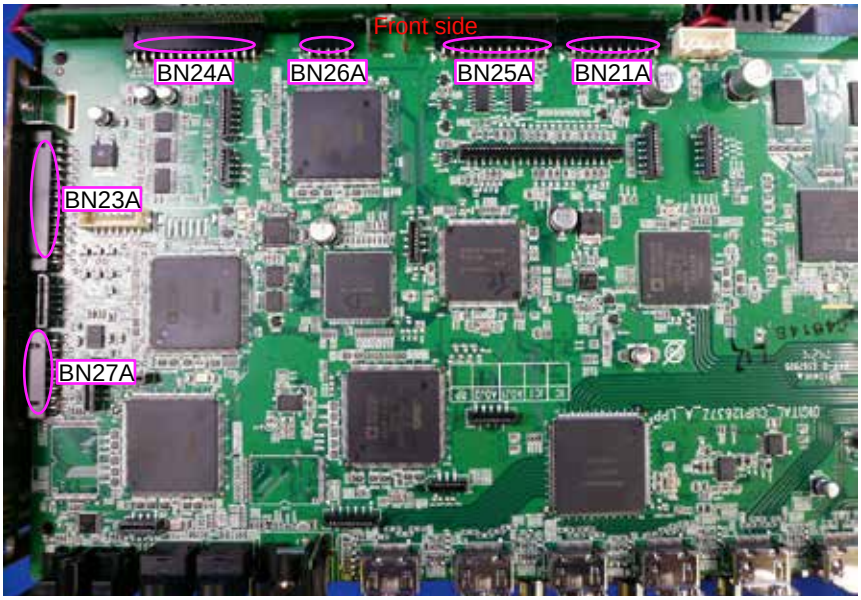
(1) Remove the screws.



(2) Cut the wire clamp, then remove the connector wires and FFC.



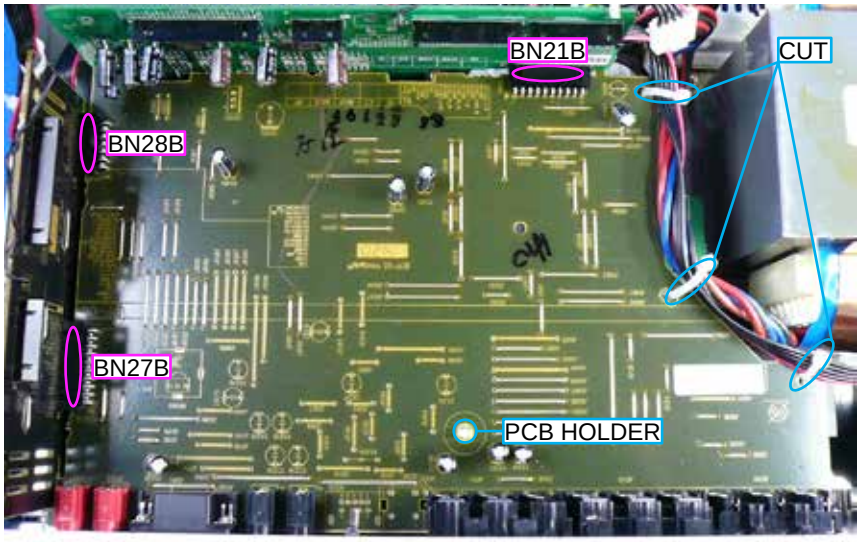
(3) Remove the connector.



4. VIDEO PCB

Proceeding : TOP COVER → BACK CHASSIS → DIGITAL PCB → VIDEO PCB

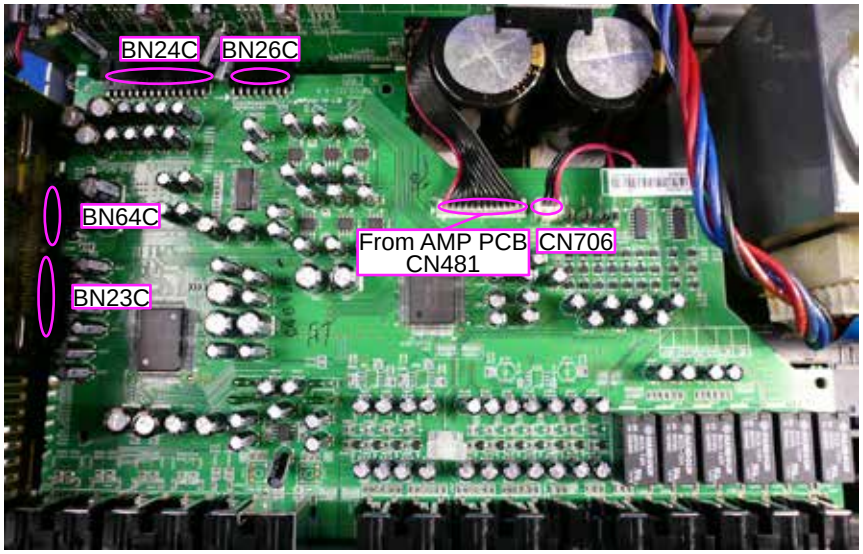
(1) Remove the connector.



5. INPUT PCB

Proceeding : TOP COVER → BACK CHASSIS → DIGITAL PCB → VIDEO PCB → INPUT PCB

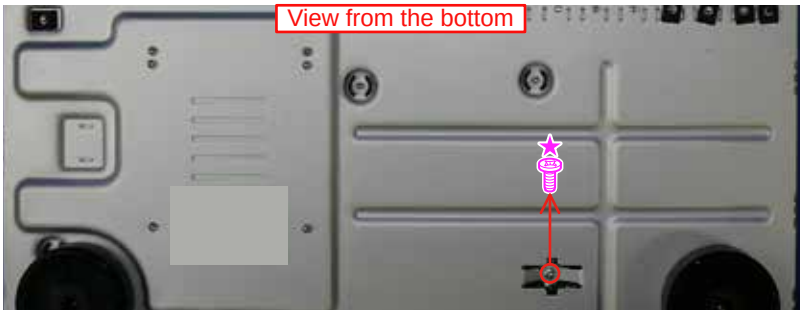
(1) Remove the connector.



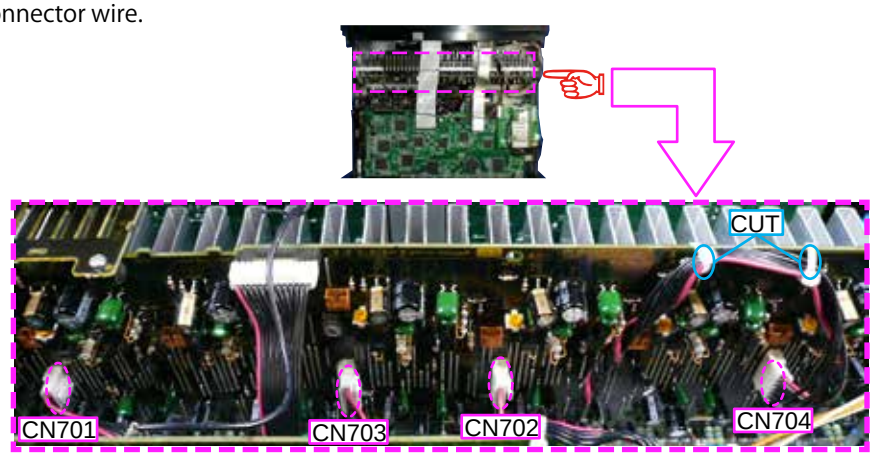
6. SPK PCB

Proceeding : TOP COVER → BACK CHASSIS → DIGITAL PCB → VIDEO PCB → INPUT PCB → SPK PCB

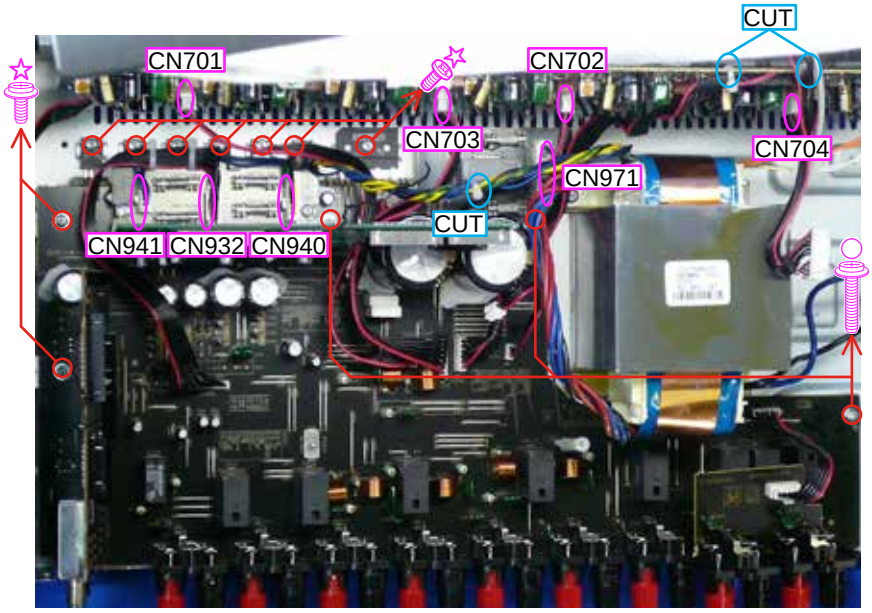
(1) Remove the screws.



(2) Remove the connector wire.



(3) Remove the connector wire. Remove the screws.



7. SMPS PCB

Proceeding : TOP COVER → BACK CHASSIS → DIGITAL PCB → SMPS PCB

See "EXPLODED VIEW" for instructions on how to remove each PCB of the "**SMPS PCB**".

8. TRANS POWER

Proceeding : TOP COVER → BACK CHASSIS → DIGITAL PCB → TRANS POWER

See "EXPLODED VIEW" for instructions on how to remove each PCB of the "**TRANS POWER**".

SPECIAL MODE

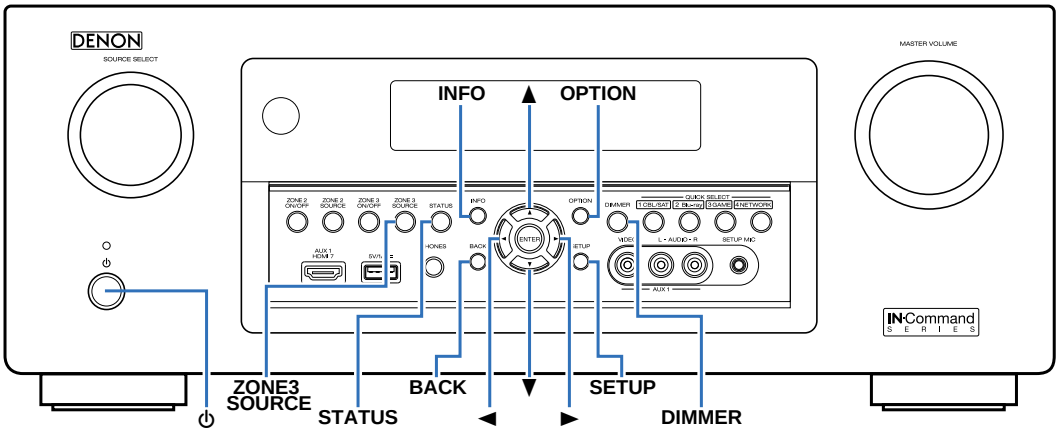
Special Mode Configuration Buttons

※ No. 1 - 12, 15 : Hold down buttons"**A**", "**B**" and "**C**" at the same time and press the power button to turn on the power.
※ No. 13, 14 : Hold down buttons "**A**" and "**B**" for at least 3 seconds while the power is on.
※ No. 16 : Press the "**A**" and "**B**" buttons simultaneously while inserting the AC plug to turn the power on.

No.	Mode	Button A	Button B	Button C	Contents
1	Version Display (u-COM / DSP Error Display)	SETUP	OPTION	-	Displays the version of firmware such as the main firmware or DSP, etc. Errors that have occurred are displayed. (See 19 page)
2	User Initialization Mode (Settings for the Installer Setup are not initialized.)	BACK	INFO	-	Initializes backup data. (Settings for the Installer Setup are not initialized.)
3	Factory Initialization Mode (Initialization includes settings for the Installer Setup.)	CURSOR ▲	CURSOR ▼	-	Initializes backup data. (Initialization includes settings for the Installer Setup.)
4	PANEL / REMOTE LOCK Selection Mode	STATUS	INFO	-	Start this unit in the PANEL/REMOTE LOCK selection mode so that PANEL LOCK and Remote Lock can be selected as ON or OFF. (See 23 page)
5	Check the Video/Audio pass Mode	STATUS	ZONE3 SOURCE	-	This is a special mode for service confirmation used during repair work to simplify the confirmation work for the Audio channel/video channel. (See 27 page)
6	Protection History Display Mode	↑	↑	-	Displays the protection occurrence history. (See 71 page)
7	232C Standby Clear Mode :	↑	↑	-	Switches from 232C standby mode to normal standby mode. (See 72 page)
8	Operation Info Mode	↑	↑	-	Displays the total operating time of the set, number of times the power was switched on, and number of occurrences of each protection.(See 73 page)
9	TUNER STEP mode (E3 and E2 model only)	↑	↑	-	Enables reception STEP of the ANALOG TUNER to be changed. (See 74 page)
10	Remote ID Setup Mode	↑	↑	-	If there are multiple DENON AV receivers in the same area, this mode stops the other AV receivers from being operated concurrently with this device. (See 75 page)
11	Installer Setup Mode	CURSOR ◄	BACK	-	Access the Remote Maintenance mode via the internet. Installer Setup is displayed on Setup menu / Network. ※ Refer to AVR_RemoteMaintenance_.pdf of SDI.
12	Protection Pass Mode	CURSOR ◄	STATUS	ZONE3 SOURCE	Enables the power to be turned on when protection detection is in the stopped state. (See 76 page)
13	CX870 / CY920 Reboot mode	DIMMER	SETUP	-	CX870 / CY920 をリセット (See76 page)
14	CX870 / CY920 Initialization mode	DIMMER	CURSOR ►	-	Enter this mode only after replacing Flash for CX870 / CY920 and rewriting the firmware. (See 77 page)
15	USB Update Mode	STATUS	OPTION		Switches this unit to USB Update mode. (See 81 page)
16	Forced USB All Device Write Mode	STATUS	OPTION	-	Mode used when this unit cannot be recovered. Forcibly switches this unit to USB update mode. (See 83 page)

NOTE:

When the volume indicator displays " -00 ", the set has entered a special mode for developers.
In this case, RS-232C communication cannot be used.
To cancel this special mode, press and hold the "**CURSOR ▼**"and "**STATUS**" buttons for 3 seconds and longer. When the volume indicator returns to the normal display, RS-232C communication can be used.



1. Version Display Mode

1.1. Actions

Version information is displayed when the device is started in this mode.

1.2. Starting up

Hold down buttons "**SETUP**" and "**OPTION**" at the same time and press the power button to turn on the power.
Press the "**OPTION**" button after this to show the information in section 1.3 on the display.
※ A version list is also displayed on GUIs while the version appears on the display.

1.3. Display Order

Error information(See "**1.4. Error display**") → ① Model destination information, Serial Number
→ ② Firmware Package Version → ③ Main µ-com, Main 1st Boot Loader Version
→ ④ Sub µ-com, Sub 1st Boot Loader Version → ⑤ DSP1/2/3/4 ROM → ⑥ Audio, Video PLD → ⑦ GUI SFLASH
→ ⑧ Ethernet 1st Boot Loader, Hardware ID → ⑨ Ethernet 2nd Boot Loader, Rhapsody Flag → ⑩ Ethernet IMAGE
→ ⑪ Ethernet MAC ADDRESS information → ⑫ BT MAC ADDRESS information → ⑬ MultEQ Pro APP (Displayed when Audyssey Pro is complete) → ⑭ MultEQ Pro ICL (Displayed when Audyssey Pro is complete)

① Model destination information, Serial Number :

FLD	L1	A	V	R	-	X	4	1	0	0	W		E	3			*

Case of CX870 : Display "*" at the end

FLD	L1	A	V	R	-	X	4	1	0	0	W		E	2			*

Case of CX870 : Display "*" at the end

FLD	L1	A	V	R	-	X	4	1	0	0	W		E	1	C		*

Case of CX870 : Display "*" at the end

FLD	L1	A	V	R	-	X	4	1	0	0	W		J	P			*

Case of CX870 : Display "*" at the end

FLD	L2	S	/	N	.			*	*	*	*	*	*	*	*	*	*

② Firmware Package Version :

FLD	L1		F	i	r	m	.		P	a	c	k	a	g	e		
	L2								V	e	r	.	:	*	*	*	*

③ Main µ-com, Main 1st Boot Loader Version :

FLD	L1		M	a	i	n					:	*	*	.	*	*	*
	L2		M	a	i	n		F	B	L		:	*	*	.	*	*

Case of CX870 : Display "*" at the end

④ Sub µ-com, Sub 1st Boot Loader Version : Model code

FLD	L1		S	u	b				:	X	X	Y	Z	*	*	*	*
	L2		S	u	b		F	B	L			:	*	*	.	*	*

X：Model code Y：Model Z：Region(E3=1, E2=2, E1C=5)

⑤ DSP 1/2 ROM :

FLD	L1		D	S	P	1						:	*	*	.	*	*
	L2		D	S	P	2						:	*	*	.	*	*

DSP 3/4 ROM :

FLD	L1		D	S	P	3						:	*	*	.	*	*
	L2		D	S	P	4						:	*	*	.	*	*

⑥ Audio, Video PLD :

FLD	L1		A	u	d	i	o		P	L	D	:	*	*	.	*	*
	L2		V	i	d	e	o		P	L	D	:	*	*	.	*	*

⑦ GUI SFLASH :

FLD																
	L1		G	U	I				:	X	X	Y	Z	*	*	*	*
	L2																

X : Model code Y : Model Z : Region(E3=1, E2=2, E1C=5)

⑧ Ethernet 1st Boot Loader, Hardware ID :

FLD																
	L1		E	t	h	e	r	n	e	t		F	B	L			
	L2	*	*	*	*	*	*	-	A	A							

AA:Hardware ID

⑨ Ethernet 2nd Boot Loader, Rhapsody Flag :

FLD																	
	L1		E	t	h	e	r	n	e	t		S	B	L			
	L2	*	*	*	*	*	*	*	*	*	*	*	*	*	-	B	B

⑩ Ethernet IMAGE :

FLD																	
	L1		E	t	h	e	r	n	e	t		I	M	G			
	L2	*	*	*	*	*	*	*	*	*	*	*	*	*			

⑪ Ethernet MAC ADDRESS information :

FLD																	
	L1	*	N	E	T		M	A	C		A	d	d	r	e	s	s
	L2	*	*	*	*	*	*	*	-	*	*	*	*	*			

⑫ BT MAC ADDRESS information :

FLD																	
	L1	*	B	T		M	A	C		A	D	D	R	E	S	S	
	L2		*	*	*	*	*	*	-	*	*	*	*	*	S		

⑬ MultEQ Pro APP :

FLD																	
	L1	*	M	u	l	t	E	Q		P	r	o		A	P	P	
	L2	*	*	.	*	*	.	*	*	.	*	*	*	*			

⑭ MultEQ Pro ICL :

FLD																	
	L1	*	M	u	l	t	E	Q		P	r	o		I	C	L	
	L2	*	*	.	*	*	.	*	*	.	*	*	*	*			

1.4. Error display

See the table below for descriptions of displayed errors and countermeasures for these.
Display order is ①,②,③,④,⑤,⑥,⑦.

Condition	States	Display	TROUBLE SHOOTING
① Firm Check NG	The model name, brand name and region information written in the firmware are compared to the region settings in the PCB.This error is displayed if the information does not match. " ▲ " is displayed as the first character if the firmware is not correct (see right section of table).	FIRM ERROR ▲Main :**.** ▲DSP1 :**.** ▲Audio PLD:**.** ▲GUI :********	•Check the resistor for setting region(R1589 / R1590, DIGITAL PCB). •Write the firmware for the correct region.
② SUB μ -COM NG	There is not a reply from SUB μ-COM.	SUB ERROR 01	• Check the SUB(IC171) and surrounding circuits.
③ IP SCALER NG	An error occurs in Loopback Test of the DDR memory to perform at initial setting of i/p Scaler(ADV8003).	IP SCALER ERR 01	•Check the circuits around the IP SCALER (IC401, HDMI PCB) and DDR2 (IC402/IC403). If there appear to be no problems, IC401 or IC402/IC403 is faulty.
	In initial setting of i/p Scaler (ADV8003), there is not the reply of the Loopback Test result of the DDR memory .	IP SCALER ERR 02	
④ GUI Serial Flash NG	In initial setting of i/p Scaler (ADV8003), there is not the reply of the Loopback Test result of the DDR memory . " ▼ " is displayed as the first character of the GUI firmware version	GUI VER. ERROR ▼GUI :********	•Check the firmware version.
⑤ DIR NG	This error is displayed if there is no response from the DIR.	DIR ERROR 01	•Check the DIR (IC202, DIGITAL PCB) and surrounding circuits.
⑥ DSP NG	The DSP* FLAG0 port does not enter "**Hi**" status even after executing a DSP reset during a DSP code boot.	DSP* ERROR 01	•Check the DSP (IC251, IC261, IC271, IC281 DIGITAL PCB) and surrounding circuits.
	The DSP* FLAG0 port does not enter "**Hi**" status before issuing a DSP command.	DSP* ERROR 02	
	ACK="**Hi**" does not occur during DSP* data reading, even when WRITE="**Lo**".	DSP* ERROR 03	
	ACK="**Lo**" does not occur during DSP* data reading, even when REQ="**Lo**".	DSP* ERROR 04	
	ACK="**Hi**" does not occur during DSP* data writing, even when WRITE="**Hi**".	DSP* ERROR 05	
	ACK="**Lo**" does not occur during DSP* data writing, even when REQ="**Lo**".	DSP* ERROR 06	
⑦ EEPROM NG	An error occurred in a checksum of the EEPROM(*** is a block address number).	E2PROM ERR***	

1.5. Version Display in the Setup Menu

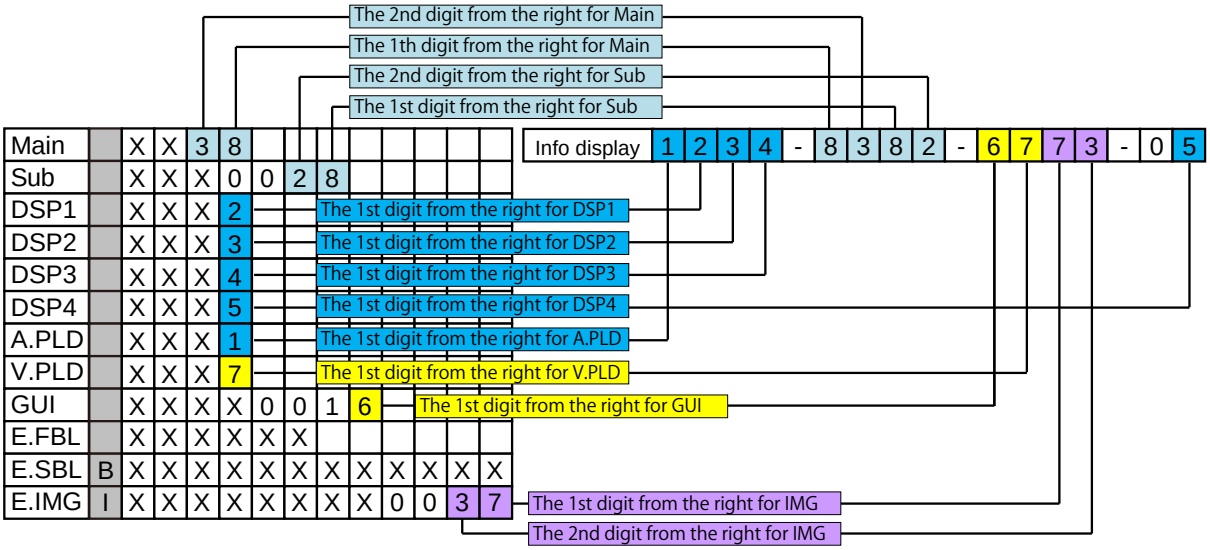
Follow the steps below to display the firmware information.

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

The version information is displayed as a 14-digit number as shown in the screenshot below.

GUI Image

This 14-digit number comprises part of the version number of each device and module.
These version numbers correspond to the 12-digit number as shown below.



※ The firmware version numbers and this 14-digit version information are written in the Service Information.

2. PANEL / REMOTE LOCK Selection Mode

2.1. Actions

Turn the PANEL LOCK and REMOTE LOCK modes on and off.

2.2. Starting up

Hold down buttons "**STATUS**" and "**INFO**" at the same time and press the power button to turn on the power.
Select the mode using the button "**CURSOR ▼/▲**", and press the button "**ENTER**" to commit the selection.

2.3. Displaying and Selecting Each Mode

The information shown on the display changes each time the button "**CURSOR ▼/▲**" is pressed.
Press the button "**ENTER**" to set the currently displayed mode and restart the device.
The On/Off setting for each mode is shown by an asterisk "*".

①

FLD	L1	▶	F	P	/	V	O	L		L	O	C	K	*	O	n	
	L2		F	P		L	O	C	K						O	n	

The buttons on the unit and the master volume knob cannot be operated.

②

FLD	L1		F	P	/	V	O	L		L	O	C	K	*	O	n	
	L2	▶	F	P		L	O	C	K						O	n	

The buttons on the unit cannot be operated.

③

FLD	L1		F	P		L	O	C	K					*	O	n	
	L2	▶	F	P		L	O	C	K						O	f	f

The PANEL LOCK mode is turned off.

④

FLD	L1		F	P		L	O	C	K						O	f	f
	L2	▶	R	C		L	O	C	K						O	n	

The device cannot be operated by the remote control.

⑤

FLD	L1		R	C		L	O	C	K						O	n	
	L2	▶	R	C		L	O	C	K						O	f	f

The REMOTE LOCK mode is turned off.

3. Selection Modes for Service-related Operations

3.1. Actions

Select diagnostic mode (service path check mode), protection history display mode, or 232C standby clear mode.

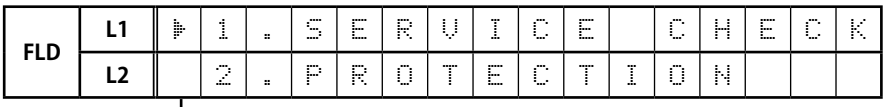
3.2. Starting up

Hold down buttons "**STATUS**" and "**ZONE3 SOURCE**" at the same time and press the power button to turn on the power.
Select the mode using the button "**CURSOR ▼/▲**", and press the button "**ENTER**" to commit the selection.

3.3. Displaying and Selecting Each Mode

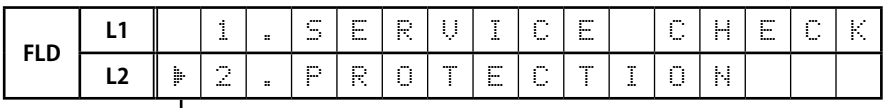
The information shown on the display changes each time the button "**CURSOR ▼/▲**" is pressed.
Press the button "**ENTER**" to set the currently displayed mode and restart the device.

①



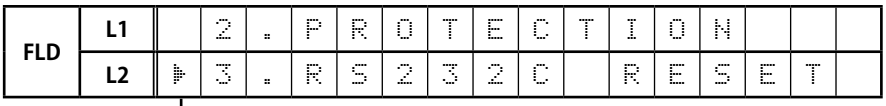
Service Path Check Mode：
The Video and Audio paths can be checked.
This function is convenient for confirming problem paths in the product and executing a path check after repair.

②



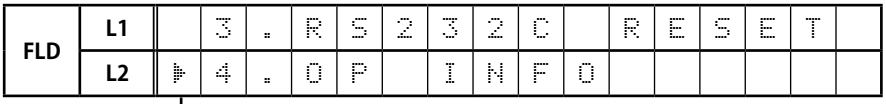
The protection history can be checked.

③



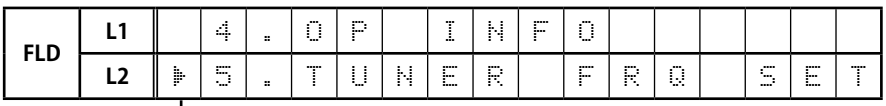
Switches from 232C standby mode to normal standby mode.

④



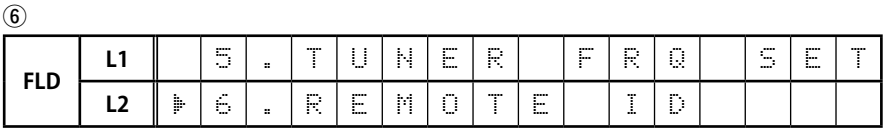
Operation Info for the unit can be checked.

⑤



Enables reception STEP of the ANALOG TUNER to be changed.

⑥



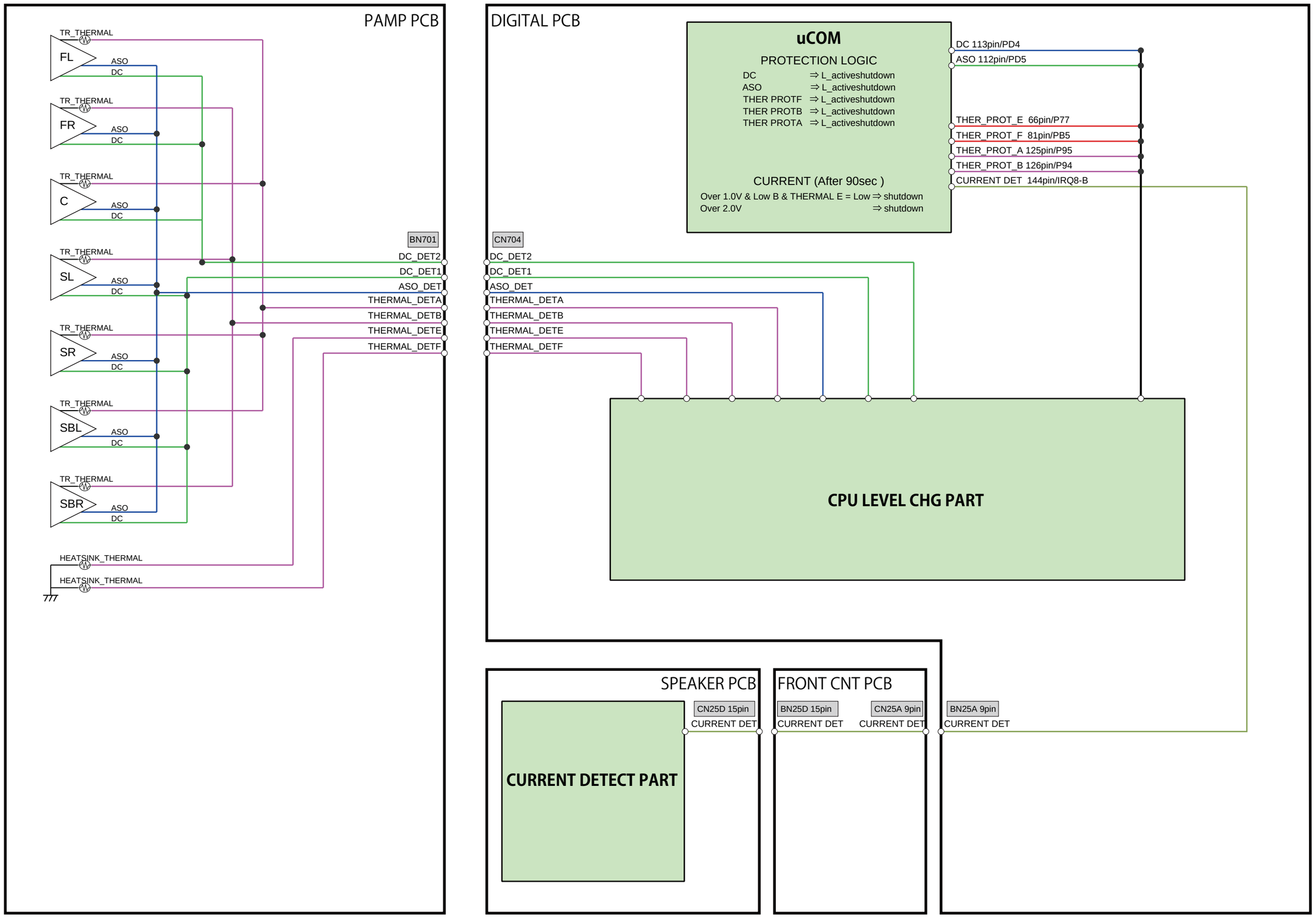
Function to operate only the desired AV receiver.

3.3. Canceling the mode

Press the power button to turn off the power.

Personal notes:

3.4 PROTECTION DIAGRAM



3.5. DIAGNOSTIC MODE (Service Path Check Mode)

3.5.1. Actions

This function is convenient for confirming problem paths in the product and executing a path check after repair.
The Video and Audio paths can be checked.
The backup data is not rewritten.

3.5.2. Starting up

Hold down buttons "**STATUS**" and "**ZONE3 SOURCE**" at the same time and press the power button to turn on the power.
Select "**1. SERVICE CHECK**" and press the "**ENTER**" button to start the diagnostic mode.
The "**TUNED**", "**STERO**" and "**RDS**" segments are lit in this mode.

3.5.3. Canceling diagnostic mode

Press the power button to turn off the power.

3.5.4. Selecting items

Press ① button to switch between video items and audio items.
Press button ② or ③ to select the previous or next item.

	The unit			Remote control unit		
Actions	① Audio ⇔ Video	② PREVIOUS	③ NEXT	① Audio ⇔ Video	② PREVIOUS	③ NEXT
Button	DIMMER	CURSOR ◄	CURSOR ►	SLEEP	CURSOR ◄	CURSOR ►

3.5.5. Audio system confirmation items

fig. XX : See the block diagram of the fig.XXth.

	Paths confirmation item	Display	Settings	Contents of confirmation Remarks
1	Analog (MAIN ZONE) **fig.01**	A01:ANALOG PASS	Input Source : CBL/SAT Input Mode : Analog fixed Sound mode :Direct Amp assign :7.1ch MAIN ZONE ON ZONE2 OFF ZONE3 :OFF	・Analog input ⇒ Speaker output (Front L/R). ・Analog input ⇒ Preout output (Front L/R). (※The input source can be switched to any source except CBL/SAT.)
2	Digital (MAIN) **fig.02a** **fig.02b**	A02:DIGITAL	Input Source : CBL/SAT Input Mode : DIGITAL fixed Sound mode : Multi Ch Stereo Amp assign : 7.1ch Speaker Select : Floor Speaker Config : All Speaker=Small/Subwoofer=2spkrs MAIN ZONE : ON ZONE2 : OFF ZONE3 : OFF	・Digital input ⇒ Speaker output (Front L/R, Center, Surround L/R, Surround Back L/R) ・Digital input ⇒ Preout output (Front L/R, Center, Surround L/R, Surround Back L/R, Subwoofer) (※The input source can be switched to any source except CBL/SAT.)
3	Digital (signal) Path (ZONE2) **fig.03a** **fig.03b** **fig.03c**	A03:DIGITAL-Z2	Input Source : Online Music Input Mode : Auto Sound mode : STEREO Amp assign : 5.1ch + ZONE2 MAIN ZONE : ON ZONE2 : ON ZONE3 : OFF	・Digital(PCM) input ⇒ Amp Assign Speaker output (Surround Back L/R → ZONE2 L/R) ・Digital(PCM) input ⇒ Preout output (ZONE2 L/R) (※The input source can be switched to any source except Online Music.)
4	Digital (signal) Path (ZONE3) **fig.04a** **fig.04b** **fig.04c**	A04:DIGITAL-Z3	Input Source : Online Music Input Mode : Auto Sound mode : Stereo Amp assign : 5.1ch + ZONE3 MAIN ZONE : ON ZONE2 : OFF ZONE3 : ON	・Digital(PCM) input ⇒ Amp Assign Speaker output (Surround Back L/R → ZONE3 L/R) ・Digital(PCM) input ⇒ Preout output (ZONE3 L/R) (※The input source can be switched to any source except Online Music.)
5	HDMI **fig.05a** **fig.05b** **fig.05c**	A05:HDMI	Input Source : CBL/SAT Input Mode : HDMI fixed Sound mode : Stereo Amp assign : 7.1ch MAIN ZONE : ON ZONE2 : OFF ZONE3 : OFF	・HDMI input ⇒ Speaker output (Front L/R) ・HDMI input ⇒ Preout output (Front L/R) (※The input source can be switched to any source except CBL/SAT.)

	Paths confirmation item	Display	Settings	Contents of confirmation Remarks
6	Analog A/D MAIN ZONE: **fig.06a** **fig.06b**	A06:AD	Input Source : CBL/SAT Input Mode : Analog fixed Sound mode : Multi Ch Stereo Z2 Vol : 60(-20dB) Amp assign : 7.1ch Speaker Select : Floor Speaker Config : All Speaker=Small/Subwoofer=2spkrs MAIN ZONE : ON ZONE2 : OFF ZONE3 : OFF	・Analog input ⇒ Speaker output (Front L/R, Center, Surround L/R, Surround Back L/R) ・Analog input ⇒ Preout output, SW(20Hz) (Front L/R, Center, Surround L/R, Surround Back L/R, Subwoofer) (※The input source can be switched to any source except CBL/SAT.) (※Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used)
7	Analog Amp Assign (Amp Assign：ZONE2) **fig.07**	A07:ASSIGN-Z2	Input Source : CBL/SAT Input Mode : Auto Sound mode : Stereo Amp assign : 5.1ch + ZONE2 Speaker for ZONE2 : Surround Back MAIN ZONE : ON ZONE2 : ON Z2 Source : Source Z2 Vol : 60(-20dB) ZONE3 : OFF	・Analog input ⇒ Speaker output(Surround Back L/R → ZONE2 L/R) ・Analog input ⇒ Preout output (ZONE2 L/R) (※The input source can be switched to any source except CBL/SAT.) (※Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used)
8	Analog Amp Assign (Amp Assign：ZONE3) **fig.08**	A08:ASSIGN-Z3	Input Source : CBL/SAT Input Mode : Auto Sound mode : Stereo Amp assign : 5.1ch + ZONE3 MAIN ZONE : ON ZONE2 : OFF ZONE3 : ON ZONE3 Source : Source Z3 Vol. : 60.0(-20.0dB)	・Analog input ⇒ Speaker output (Surround Back L/R → ZONE3 L/R) ・Analoginput ⇒ Preout output (ZONE3 L/R) (※The input source can be switched to any source except CBL/SAT.) (※Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used)
9	Analog Amp Assign **fig.09** (Amp Assign：ZONE2/ZONE3-MONO)	A09:ASSIGN-Z3/3M	Input Source : CBL/SAT Input Mode : Auto Sound mode : STEREO Amp assign : 5.1ch + ZONE2/3-MONO MAIN ZONE : ON ZONE2 : ON Z2 Source : Source Z2 Vol : 60(-20dB) ZONE3 : ON Z3 Source : Source Z3 Vol : 60(-20dB)	・Analog input ⇒ Speaker output (Surround Back L → ZONE2 MONO, Surround Back R → ZONE3 MONO) ・Analog input ⇒ Preout output (ZONE2 L/R → ZONE2 MONO, ZONE3 L/R → ZONE3 MONO) (※The input source can be switched to any source except CBL/SAT.) (※Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used)
10	Amp Assign (Bi-Amp) **fig.10**	A11:ASSIGN-Bi AMP	Input Source : CBL/SAT Input Mode : Auto Sound mode : Multi Ch Stereo Amp assign : 5.1ch (Bi-Amp) MAIN ZONE : ON ZONE2 : OFF ZONE3 : OFF	・Analog input ⇒ Speaker output (Surround Back L/R → Front L/R) (※The input source can be switched to any source except CBL/SAT.) (※Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used)
11	Front Height **fig.11a** **fig.11b**	A14:FRONT HEIGHT	Input Source : CBL/SAT Input Mode : Auto Sound mode : Multi Ch Stereo Vol. : 60.0(-20.0dB) Amp assign : 9.1ch Height Speakers : 2Height Speakers Height Layout : Front Height Pre-out Channel : Front Speaker Config : Surround Back=None Speaker Select(Audio_Surround Parameter) : Floor & Height MAIN ZONE : ON ZONE2 : OFF ZONE3 : OFF	・Analog input ⇒ Speaker output (Height 1 L/R → Top Front L/R) ・Analog input ⇒ Preout output (Height 1 L/R → Front Height) (※The input source can be switched to any source except CBL/SAT.) (※Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used)
12	Front Wide **fig.12a** **fig.12b**	A15:FRONT WIDE	Input Source : CBL/SAT Input Mode : Auto Sound mode : Multi Ch Stereo Vol. : 60.0(-20.0dB) Amp assign : 7.1ch Speaker Config : S.Back=None Speaker Select(Audio_Surround Parameter) : Front ZONE2 : OFF ZONE3 : OFF	・Analog input ⇒ Speaker output (Front Wide L/R) ・Analog input ⇒ Preout output (Front Wide L/R) (※The input source can be switched to any source except CBL/SAT.) (※Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used)

	Paths confirmation item	Display	Settings	Contents of confirmation Remarks
13	Front Amp>>Front Wide **fig.13a** **fig.13b**	A21:F-AMP WIDE	Input Source : CBL/SAT Input Mode : Auto Sound mode : Multi ch Stereo Vol. : 60.0(-20.0dB) Amp assign : 9.1ch Height Speakers : 2Height Speakers Height Layout : Front Height Pre-out Channel : Front Speaker Conofig :Front Height=None Speaker Select(Audio_Surround Parameter)=Floor MAIN ZONE : ON ZONE2 : OFF ZONE3 : OFF	・Analog input ⇒ Speaker output (Front Wide L/R) ・Analog input ⇒ Preout output (Front Wide L/R) (※The input source can be switched to any source except CBL/SAT.) (※Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used)
14	Front Amp>>Surround Back **fig.14a** **fig.14b**	A22:F-AMP BACK	Input Source : CBL/SAT Input Mode : Auto Sound mode : Multi ch Stereo Vol. : 60.0(-20.0dB) Amp assign : 9.1ch Height Speakers : 2Height Speakers Height Layout : Front Height Pre-out Channel : Front Speaker Conofig : Front Wide=None Speaker Select(Audio_Surround Parameter)=Floor & Height MAIN ZONE : ON ZONE2 : OFF ZONE3 : OFF	・Analog input ⇒ Speaker output (Surround Back L/R) ・Analog input ⇒ Preout output (Surround Back L/R) (※The input source can be switched to any source except CBL/SAT.) (※Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used)
15	Height Amp **fig.15a** **fig.15b**	A24:HEIGHT	Input Source : CBL/SAT Input Mode : Auto Sound mode : Multi ch Stereo Vol. : 60.0(-20.0dB) Amp assign : 9.1ch Height Speakers=4Height Speakers Height Layout=Top Front & Top Rear Pre-out Channel=Top Rear Speaker Conofig : Surround Back=None Speaker Select(Audio_Surround Parameter)=Floor & Height MAIN ZONE : ON ZONE2 : OFF ZONE3 : OFF	・Analog input ⇒ Speaker output (Height1 L/R → Top Front) ・Analog input ⇒ Preout output (Height1 L/R → Top Front, Height2 → Top Rear L/R) (※The input source can be switched to any source except CBL/SAT.) (※Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used)

3.5.6. Video system confirmation items

fig. XX : See the block diagram of the fig.XXth.

	Paths confirmation item		Display	Settings	Contents of confirmation Remarks
1	Analog Video	**fig.16**	V01:VIDEO PASS	Input Source : CBL/SAT Video Convert(IP Scaler) : OFF, All sources MAIN ZONE : ON ZONE2 : ON ZONE3 : OFF	・Component input ⇒ Component output (※The input source can be switched to any source except CBL/SAT.)
2	Video Convert (Analog or HDMI ⇒ HDMI)	**fig.17a** **fig.17b**	V02:V.CONVERT	Input Source : CBL/SAT Video Convert(IP Scaler) : ON, All sources IP Scaler : "Analog & HDMI", All sources Resolution : "Auto", All sources MAIN ZONE : ON ZONE2 : OFF ZONE3 : OFF	・CVBS input ⇒ IP Scaler ⇒ HDMI output. ・Component input ⇒ IP Scaler ⇒ HDMI output. ・HDMI input ⇒ IP Scaler ⇒ HDM output. ・ETHERNET input ⇒ IP Scaler ⇒ HDMI output. (※The input source can be switched to any source except CBL/SAT.)
3	HDMI pass (MAIN ZONE)	**fig.18**	V03:HDMI PASS	Input Source : CBL/SAT Source of Video Convert(IP Scaler) : OFF, All sources MAIN ZONE : ON ZONE2 : OFF ZONE3 : OFF	・HDMI input ⇒ HDMI input(MAIN ZONE) (※The input source can be switched to any source except CBL/SAT.)
4	HDMI CEC (Control Monitor：HDMI Monitor1)	**fig.19**	V04:HDMI CEC	Input Source : CBL/SAT HDMI Control : ON Control Monitor：Monitor1(HDMI Monitor Out1) MAIN ZONE : ON ZONE2 : OFF ZONE3 : OFF	・When the power supply of a TV is put in the standby mode, make sure that the power supply of this unit is also put in the standby mode. ・The ARC path can also be checked (check this using the TV input source). (※The input source can be switched to any source except CBL/SAT.)
5	HDMI Audio (Audio :AVR)	**fig.20a** **fig.20b** **fig.20c**	V05:H.AUDIO-AVR	Input Source : CBL/SAT HDMI Control : OFF HDMI Audio：AVR (if checking the audio output from AVR)	・HDMI input (PCM , DolbyDigital , DTS) ⇒ Speaker output. ・Check of HDMI input(HD audio) ⇒ Speaker output. (※The input source can be switched to any source except CBL/SAT.)
6	HDMI Audio (Audio :TV)	**fig.21a** **fig.21b**	V06:H.AUDIO-TV	Input Source : CBL/SAT HDMI Control : OFF HDMI Audio：TV (if checking the audio output from TV)	・HDMI input(PCM , DolbyDigital , DTS) ⇒ HDMI output (audio output from connected TV) (※The input source can be switched to any source except CBL/SAT.)
7	GUI	**fig.22**	V07:GUI MENU ON	Input Source : CBL/SAT Video Convert(IP Scaler) : ON, All sources IP Scaler : "Analog & HDMI", All sources Resolution : "AUTO", All sources Setup Menu : ON MAIN ZONE : ON ZONE2 : OFF ZONE3 : OFF	・GUI display ⇒ HDMI output. (※The input source can be switched to any source except CBL/SAT.)
8	HDMI (ZONE2)	**fig.23**	V08:ZONE2 HDMI	Input Source : CBL/SAT ZONE2 Source : Source MAIN ZONE : ON ZONE2 : ON ZONE3 : OFF	・HDMI input ⇒ HDMI output (ZONE2) (※The input source can be switched to any source except CBL/SAT.)

DIAGNOSTIC PATH DIAGRAM

fig.01

AVR-X4100W ANALOG AUDIO BLOCK

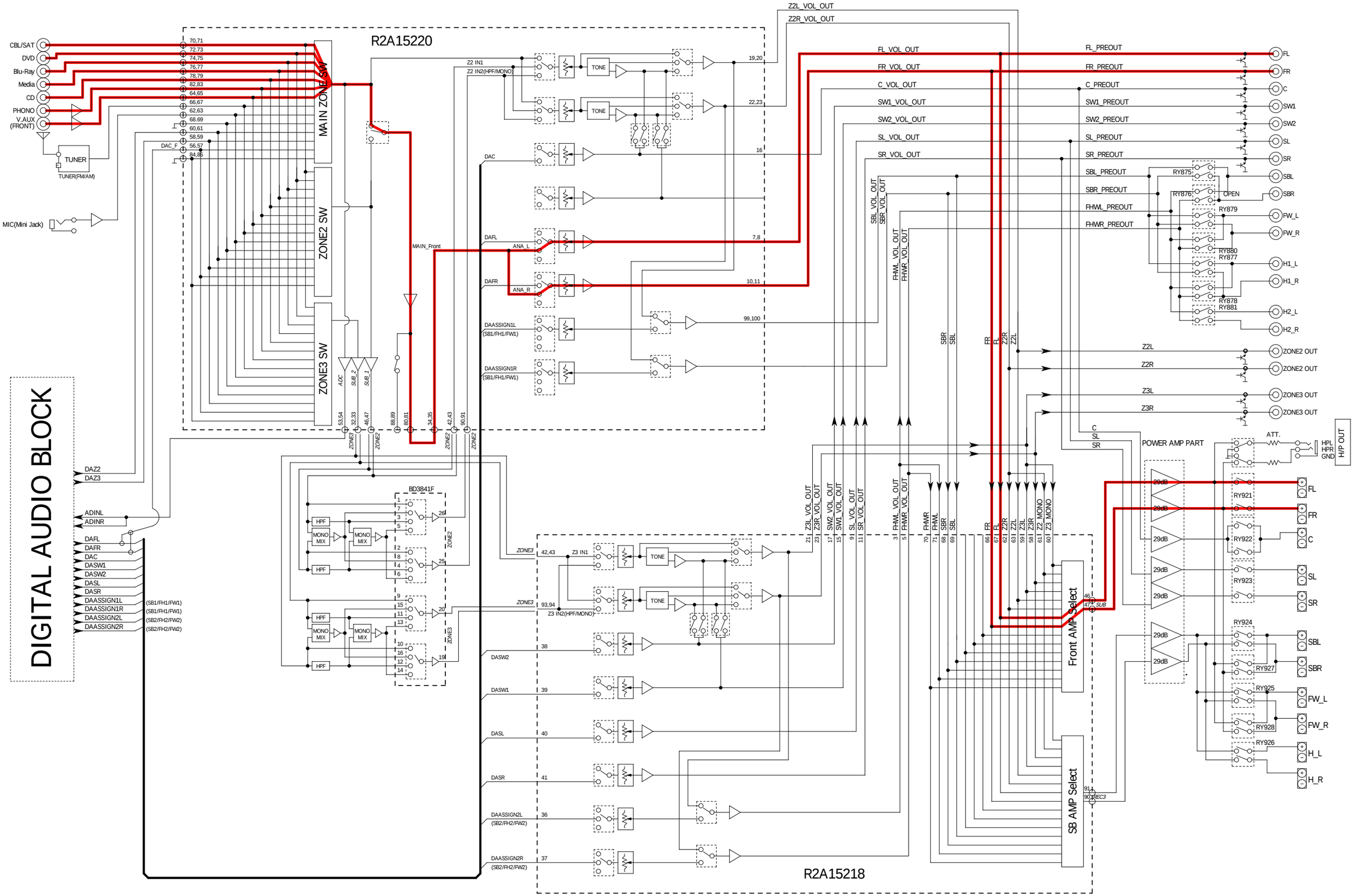


fig.02a

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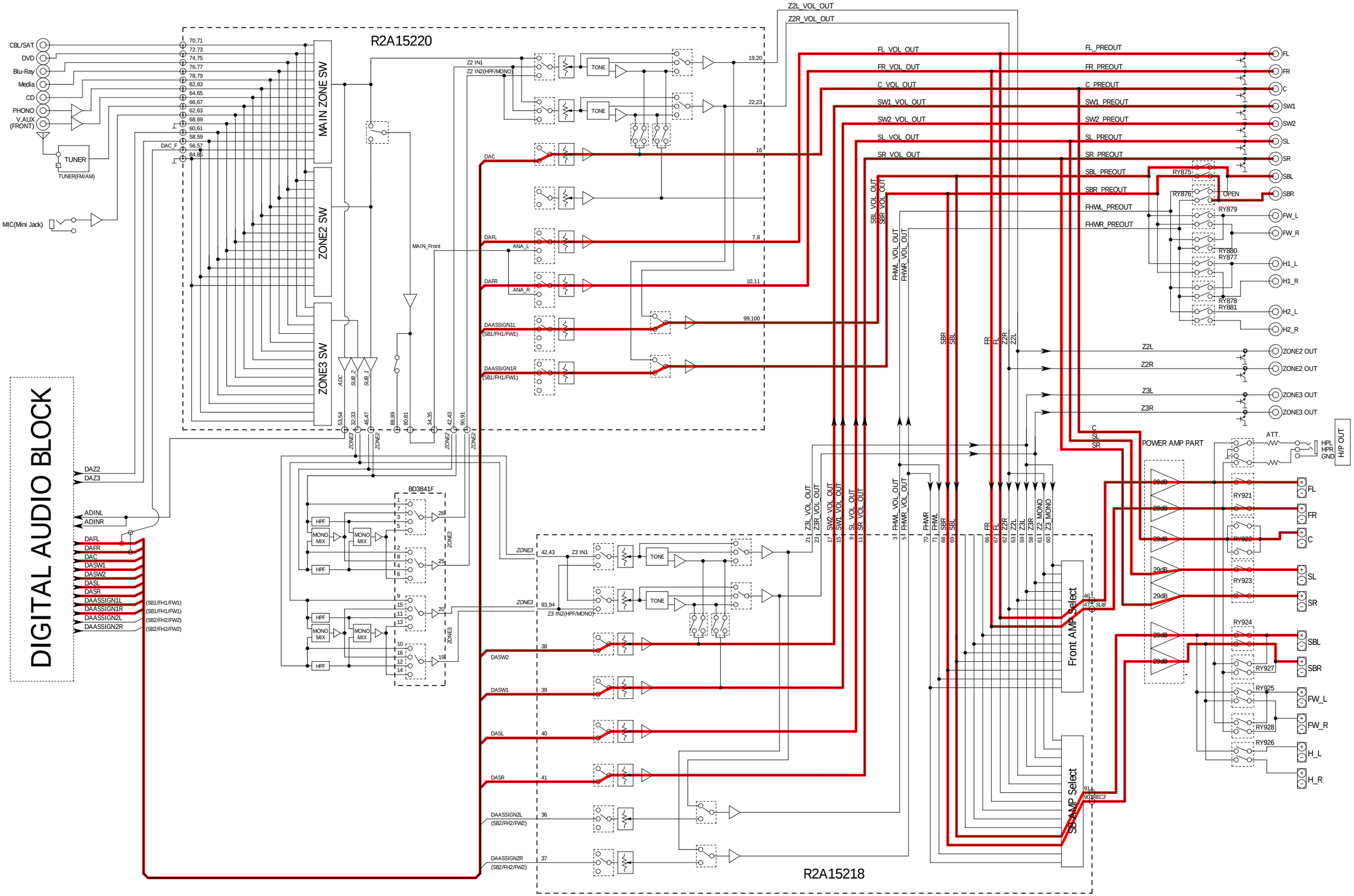

fig.02b

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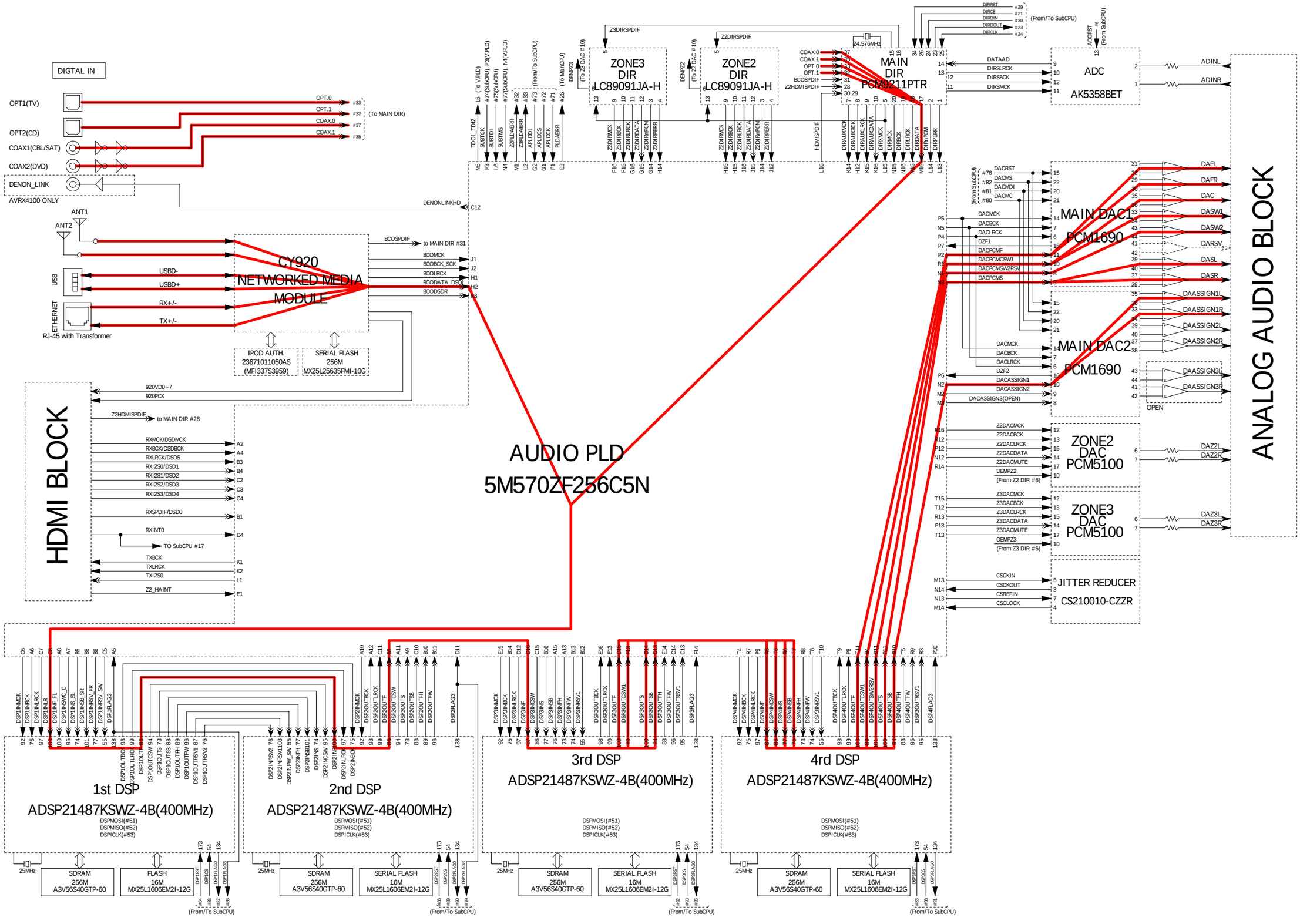

fig.03a

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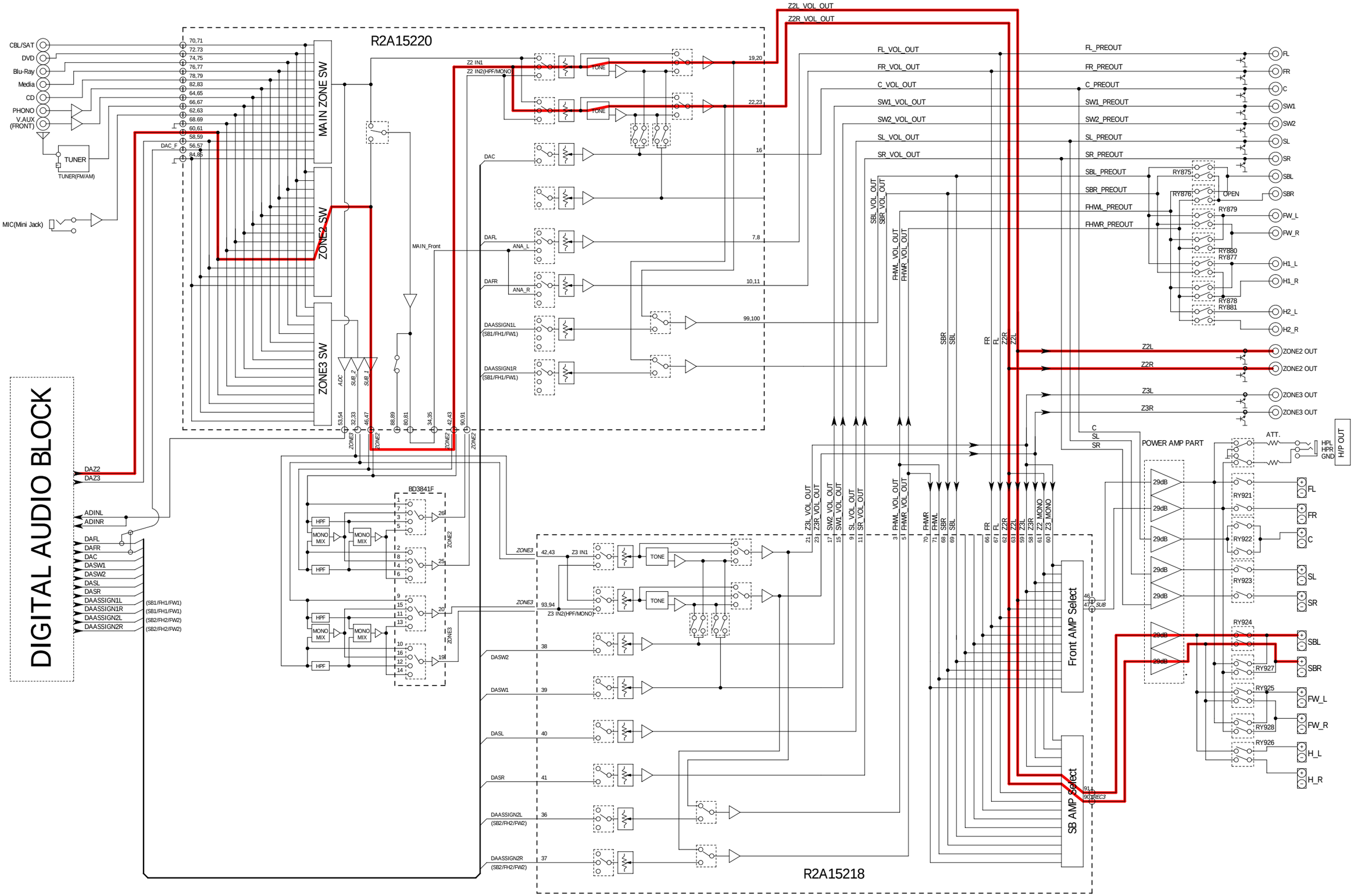

fig.03b

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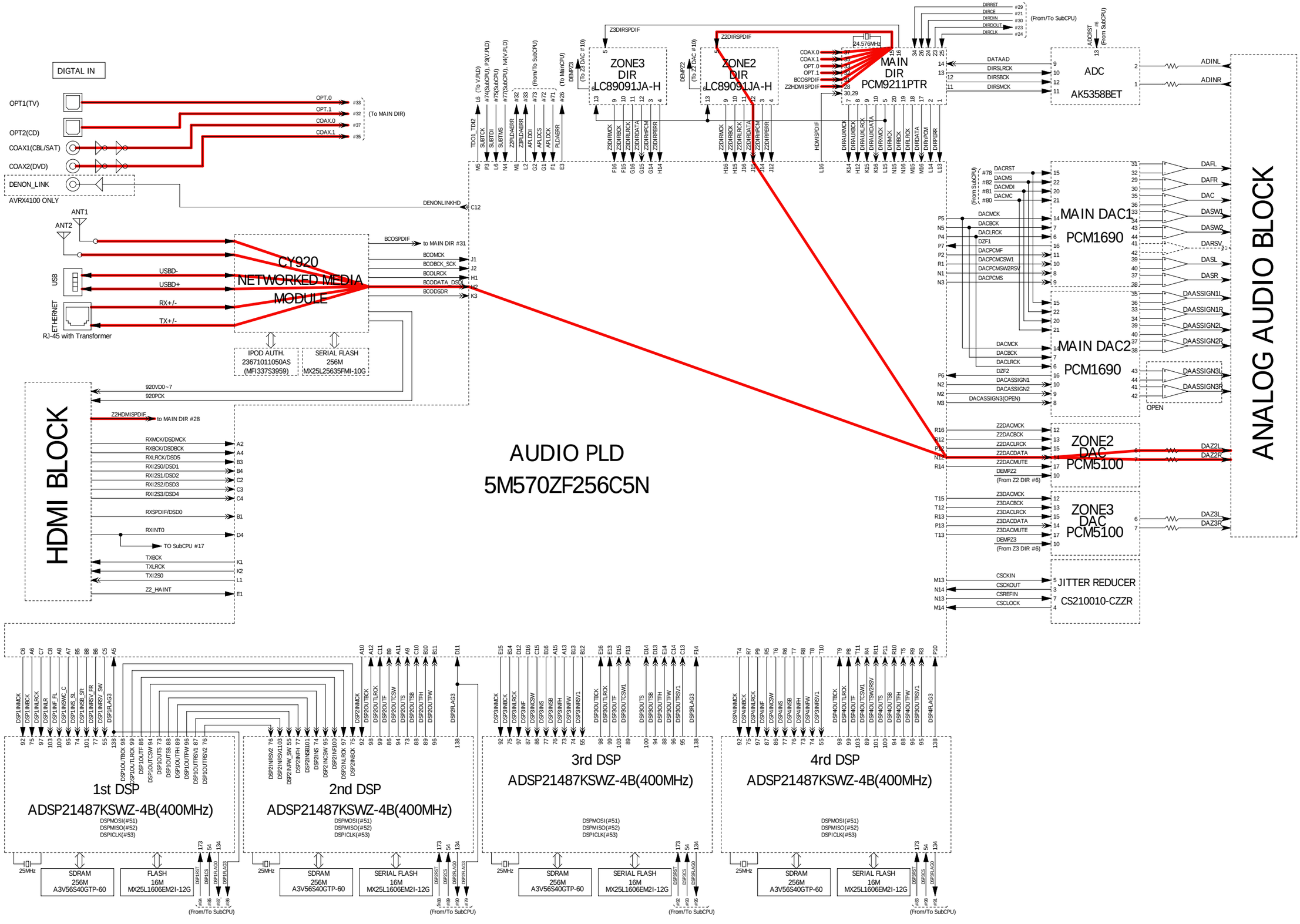

fig.03c

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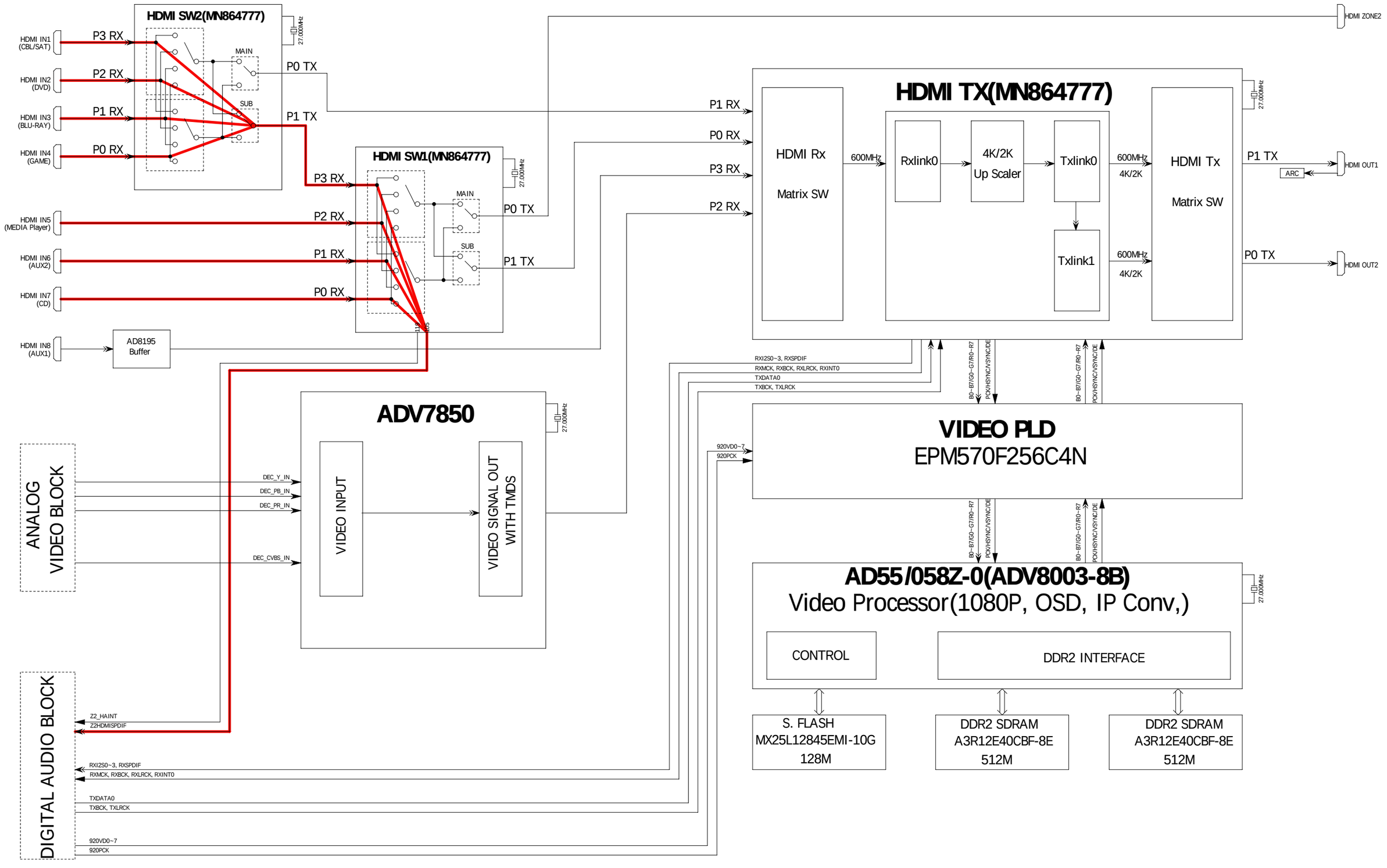

fig.04a

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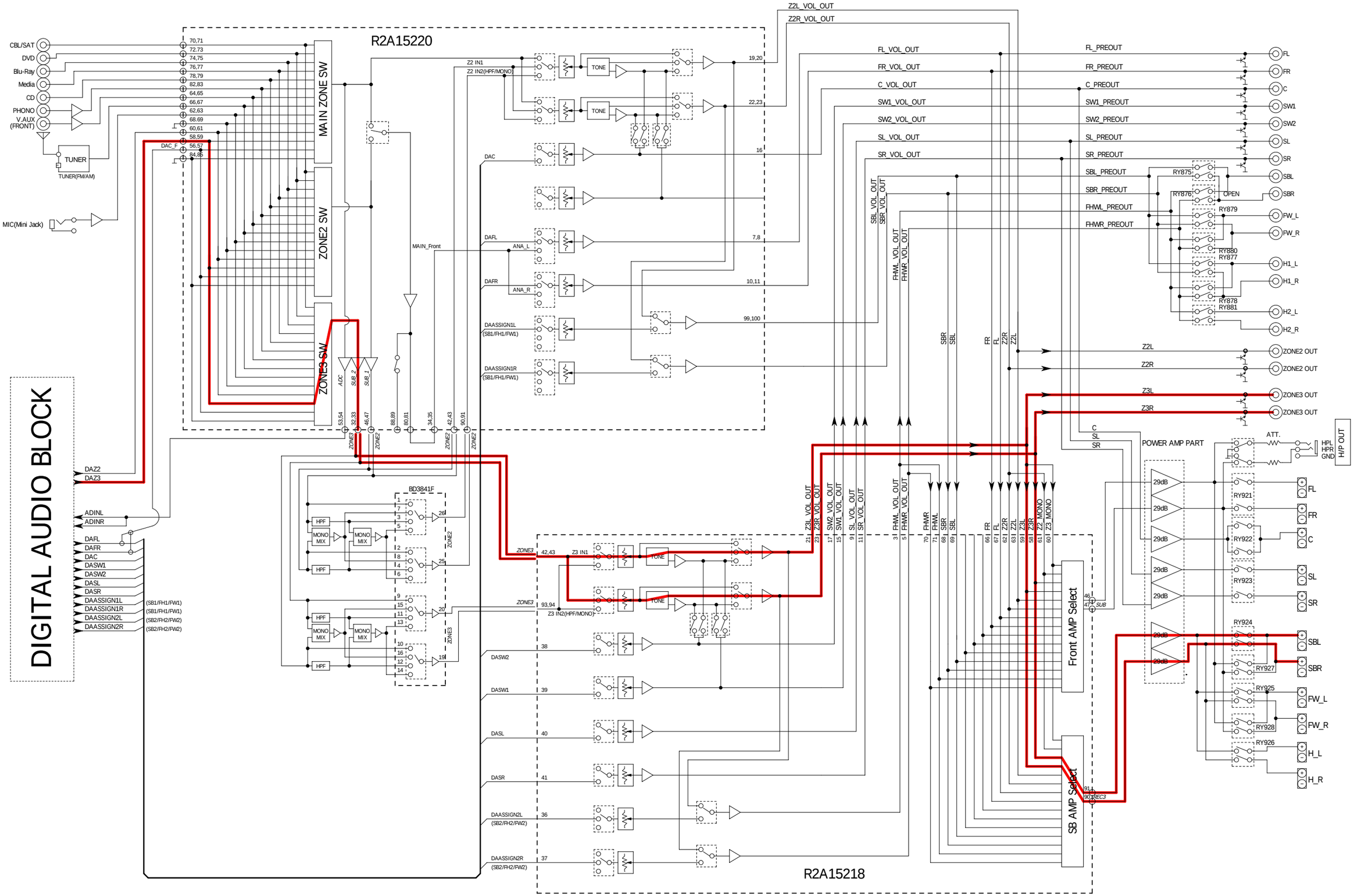

fig.04b

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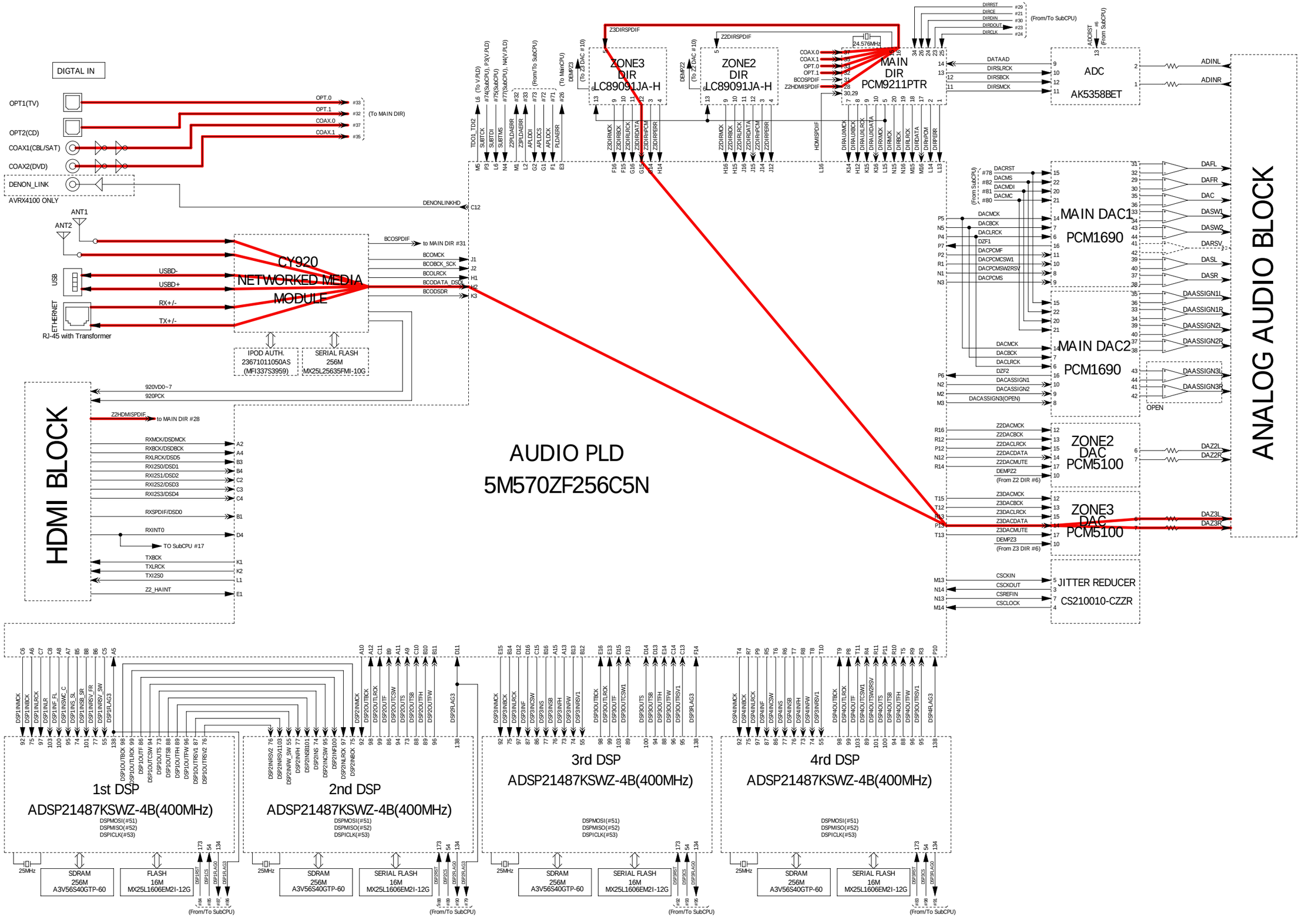

fig.04c

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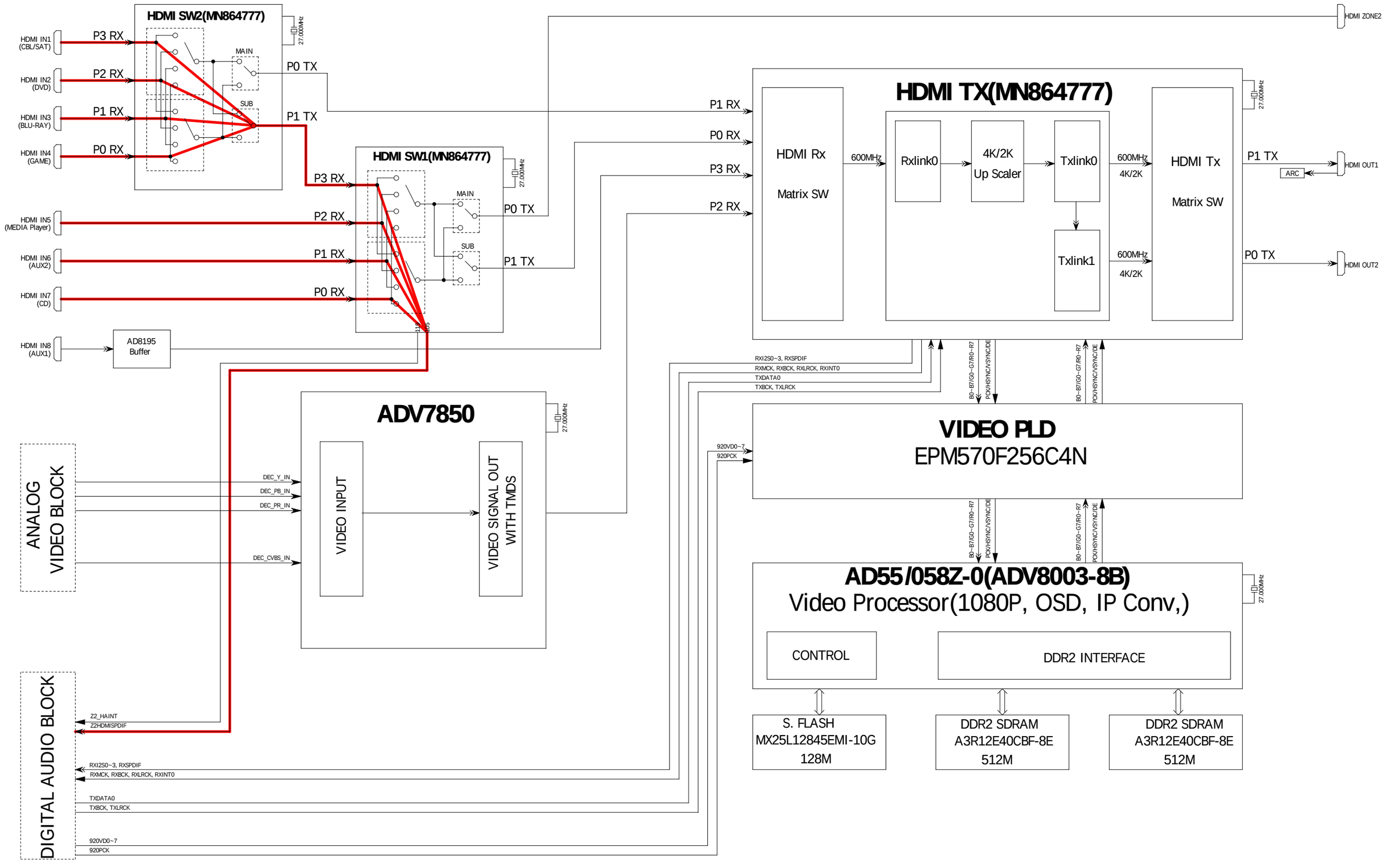

fig.05a

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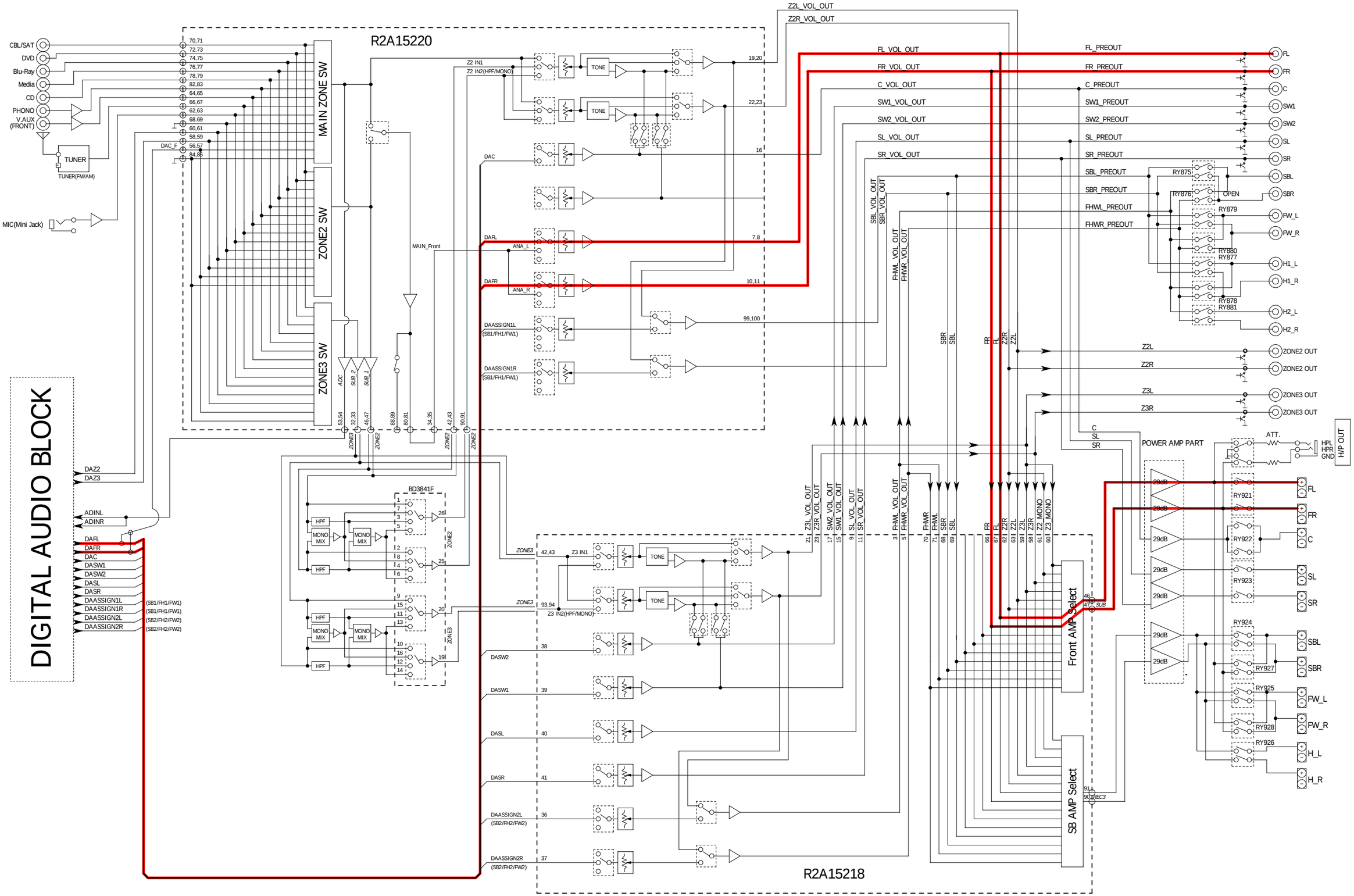

fig.05b

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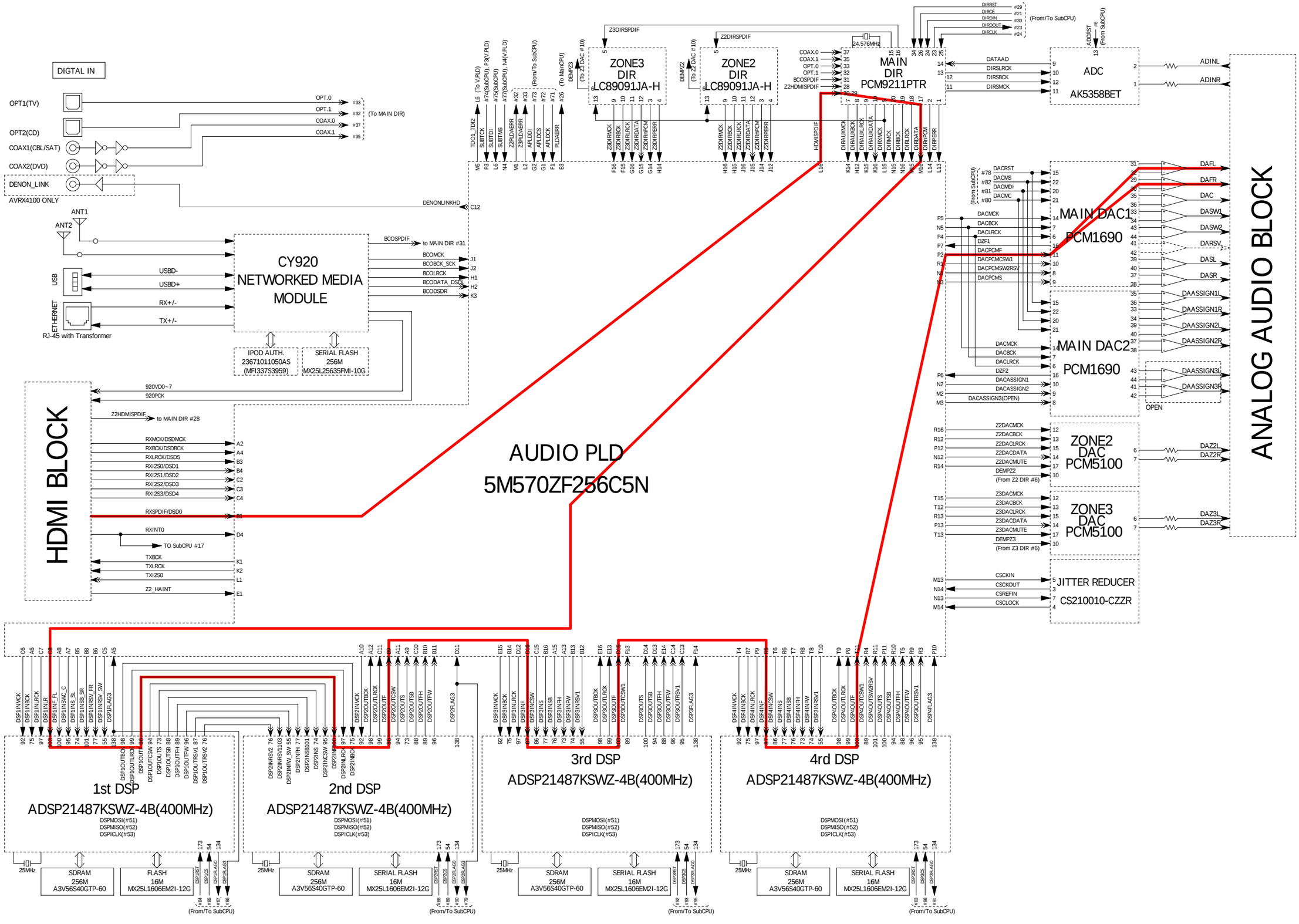

fig.05c

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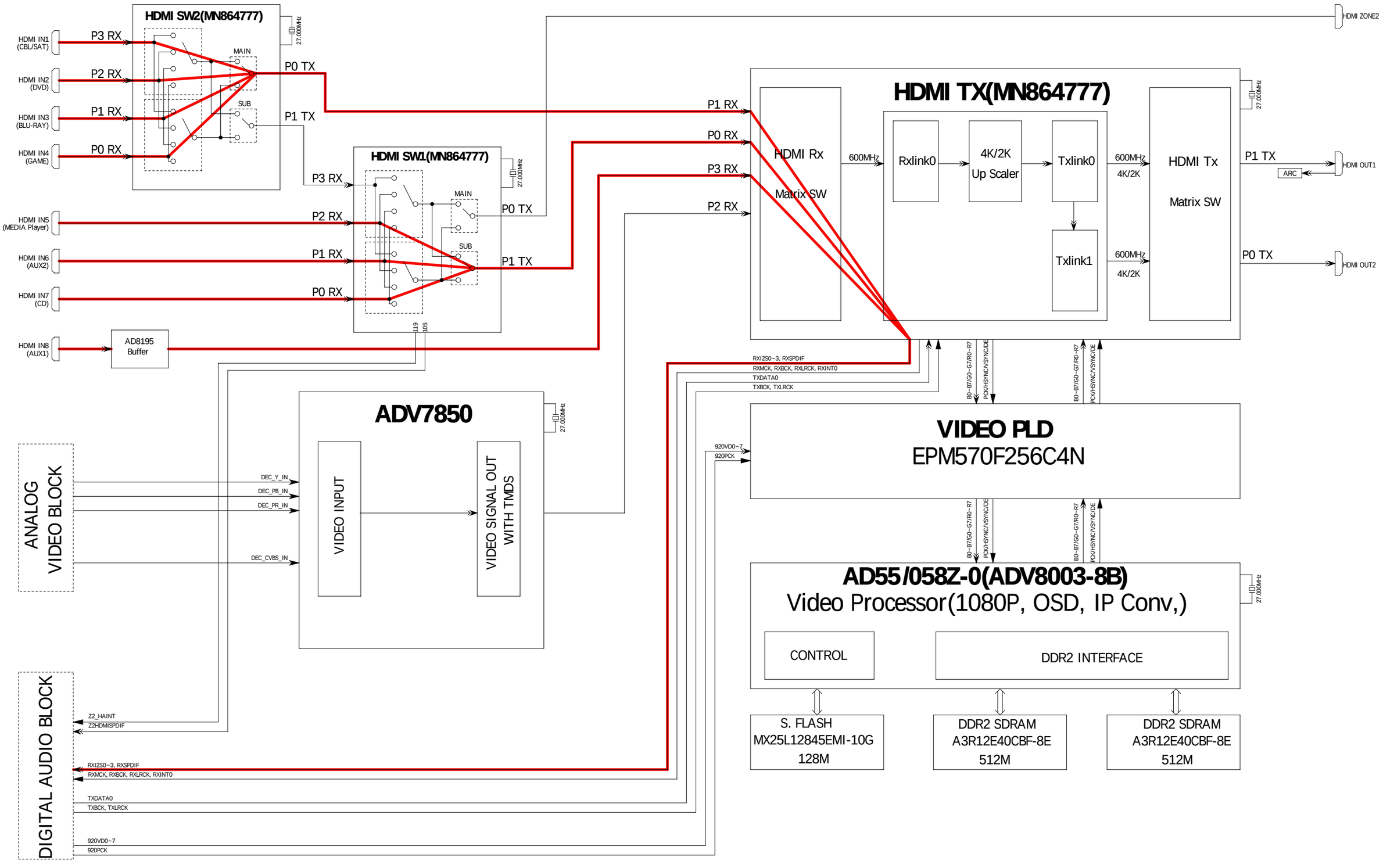

fig.06a

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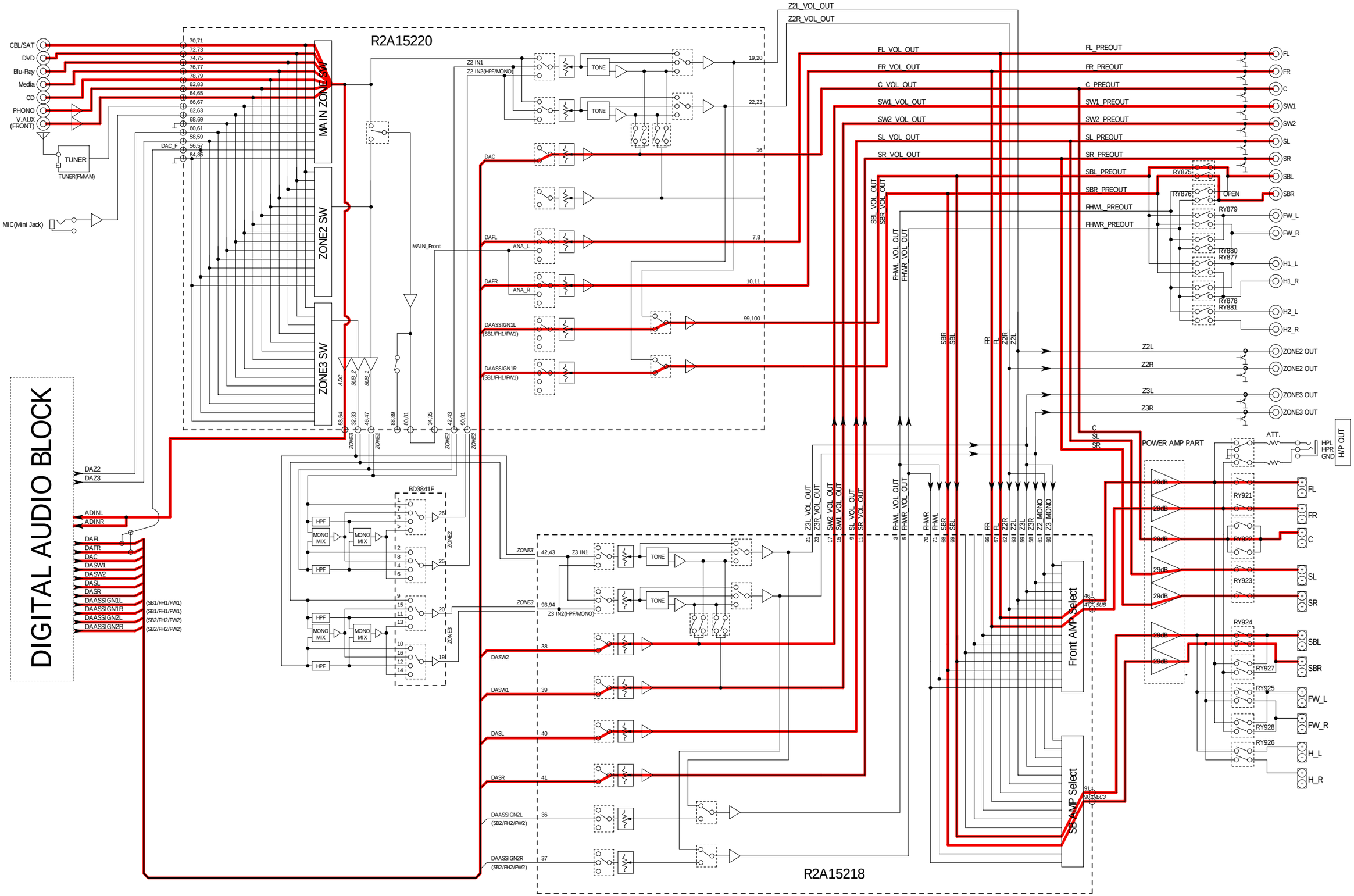

fig.06b

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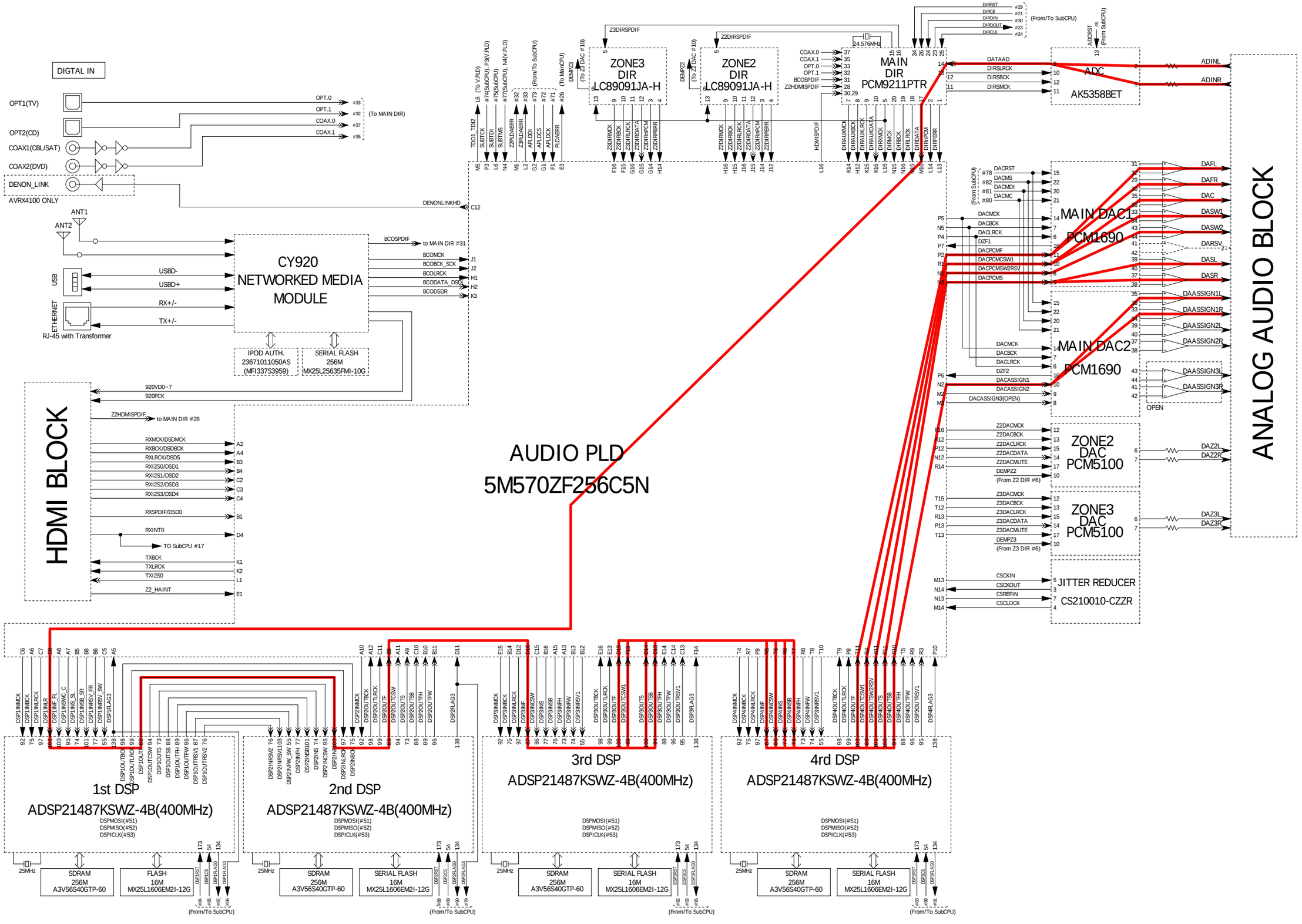

fig.07

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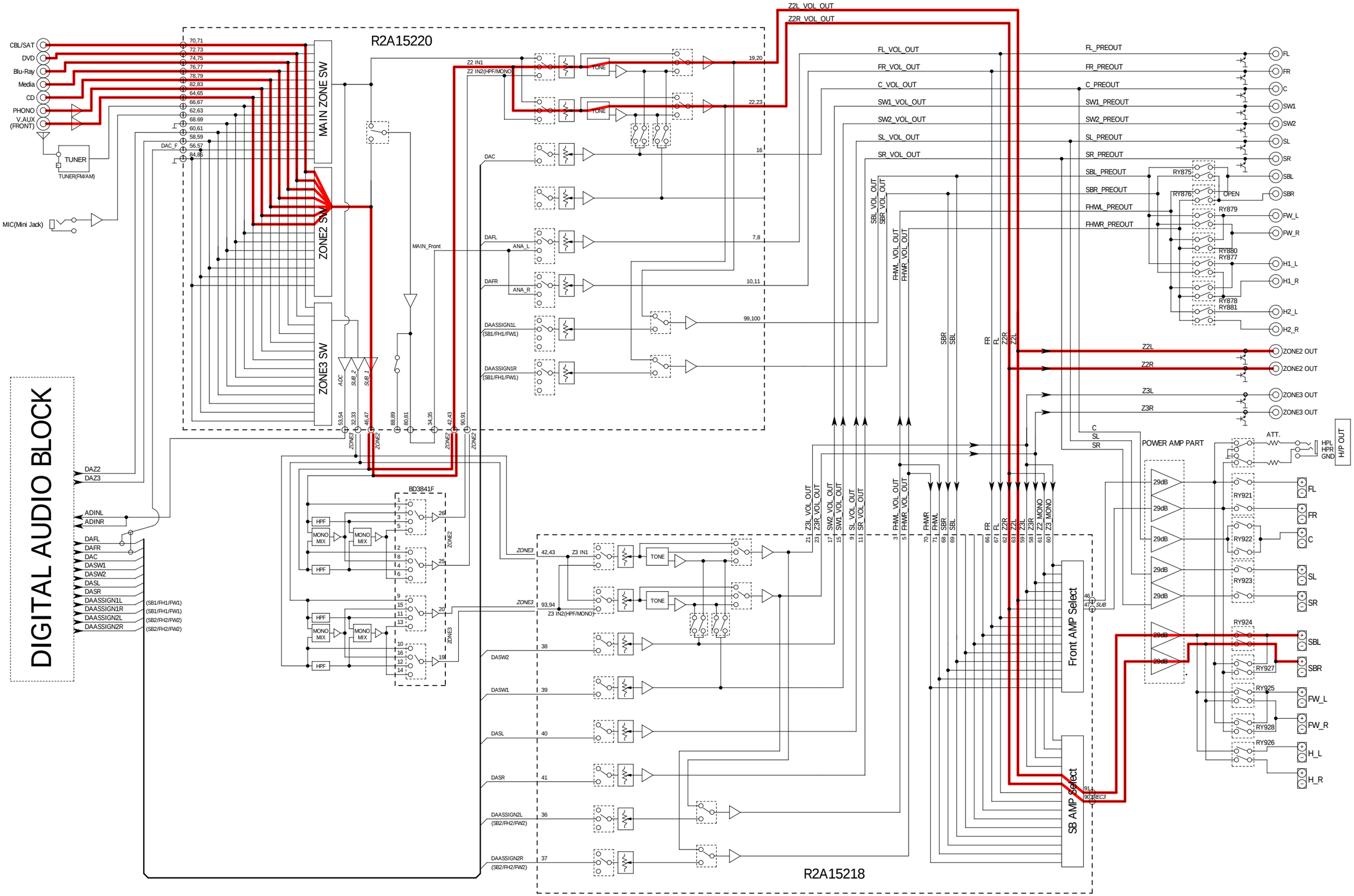

fig.08

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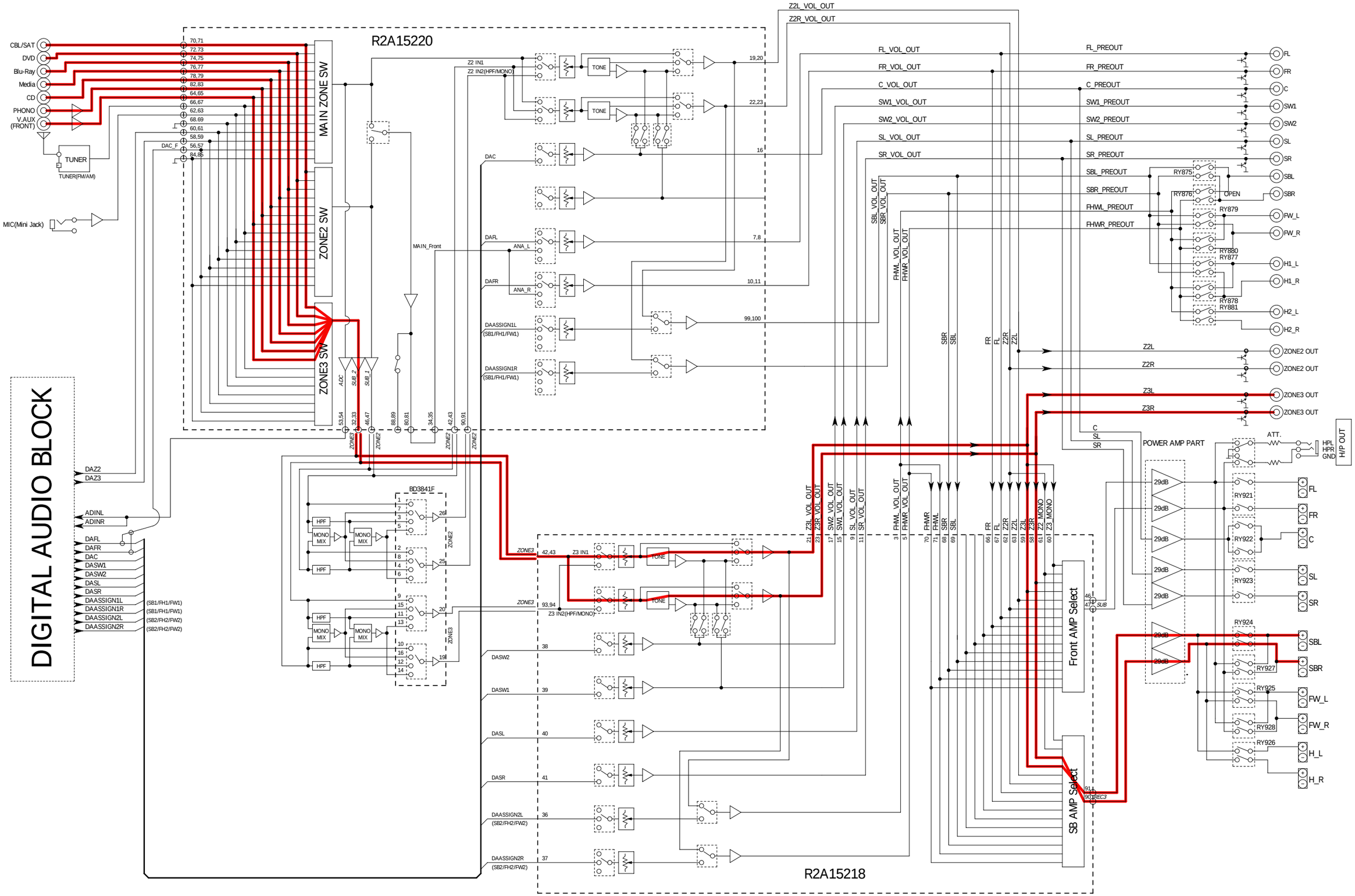

fig.09

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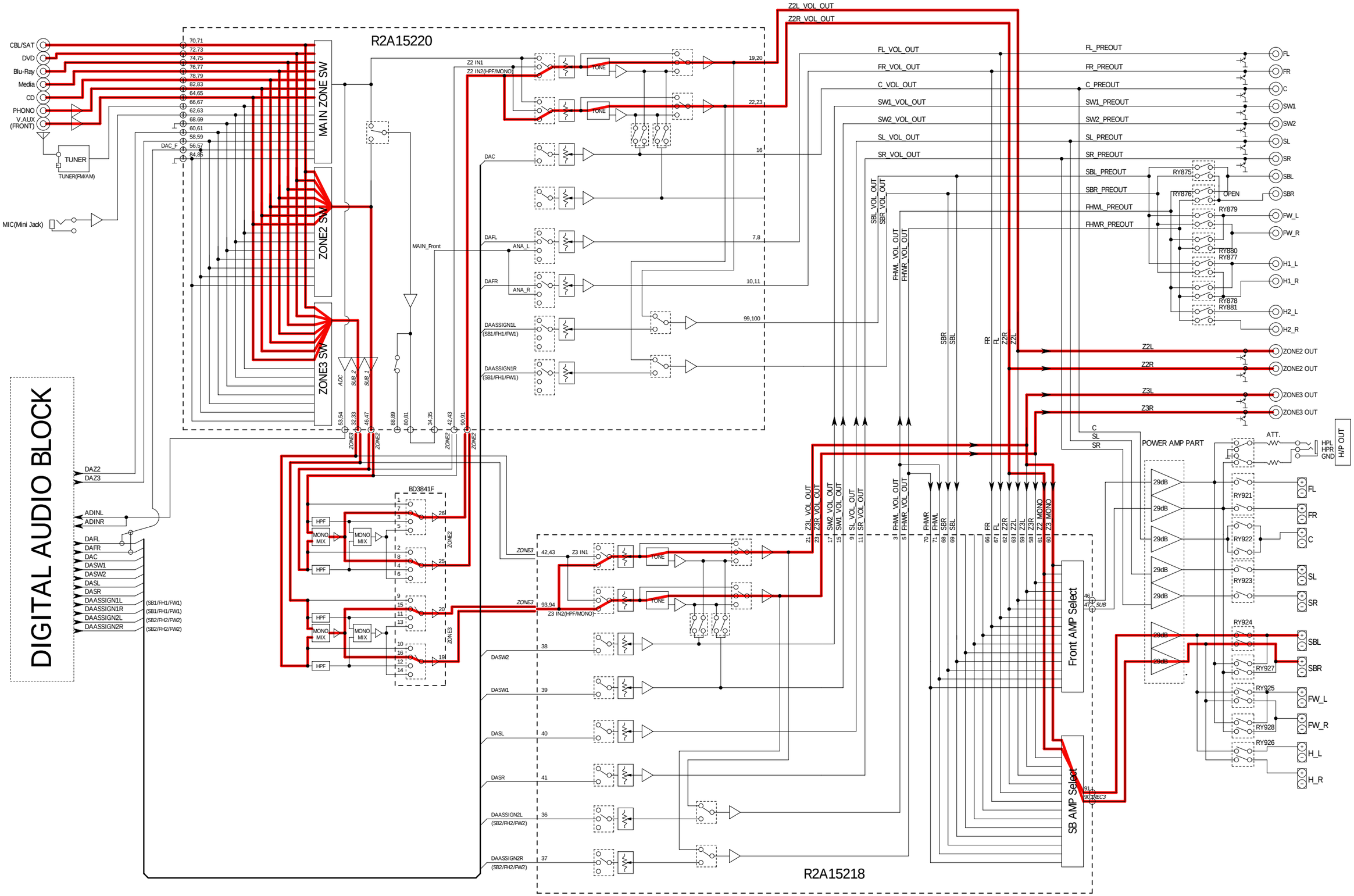

fig.10

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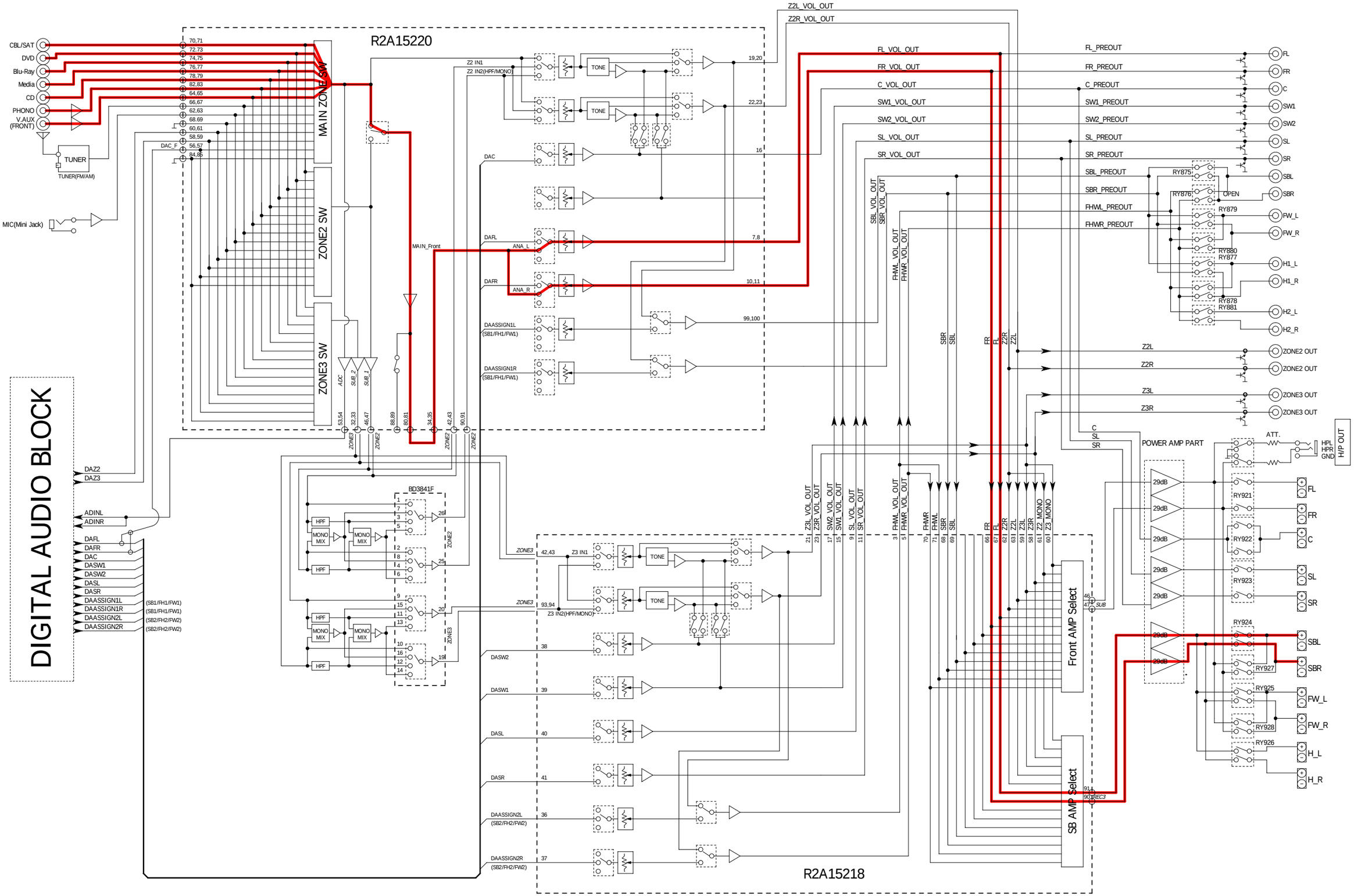

fig.11a

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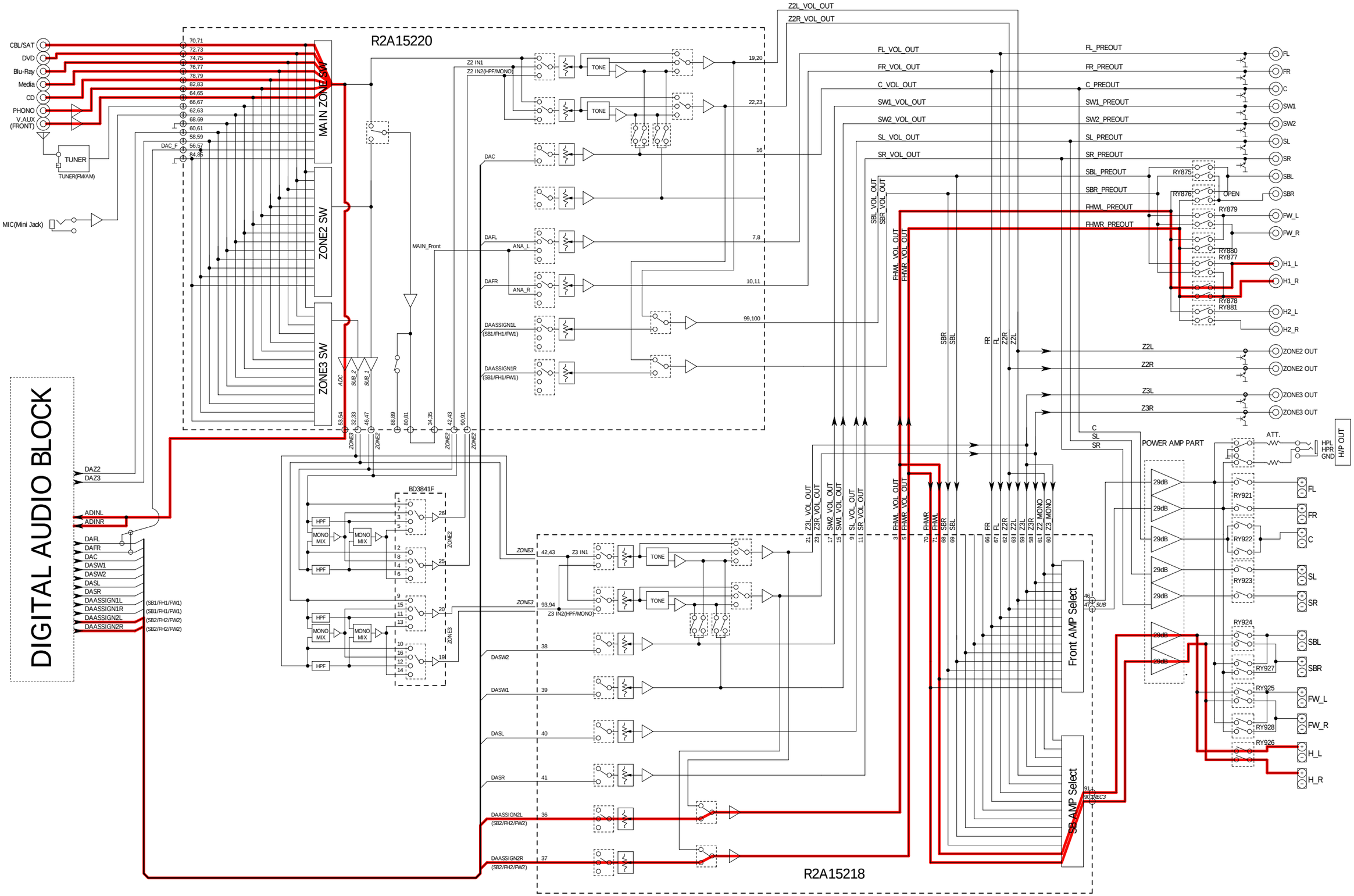

fig.11b

AVR-X4100W DIGITAL AUDIO BLOCK

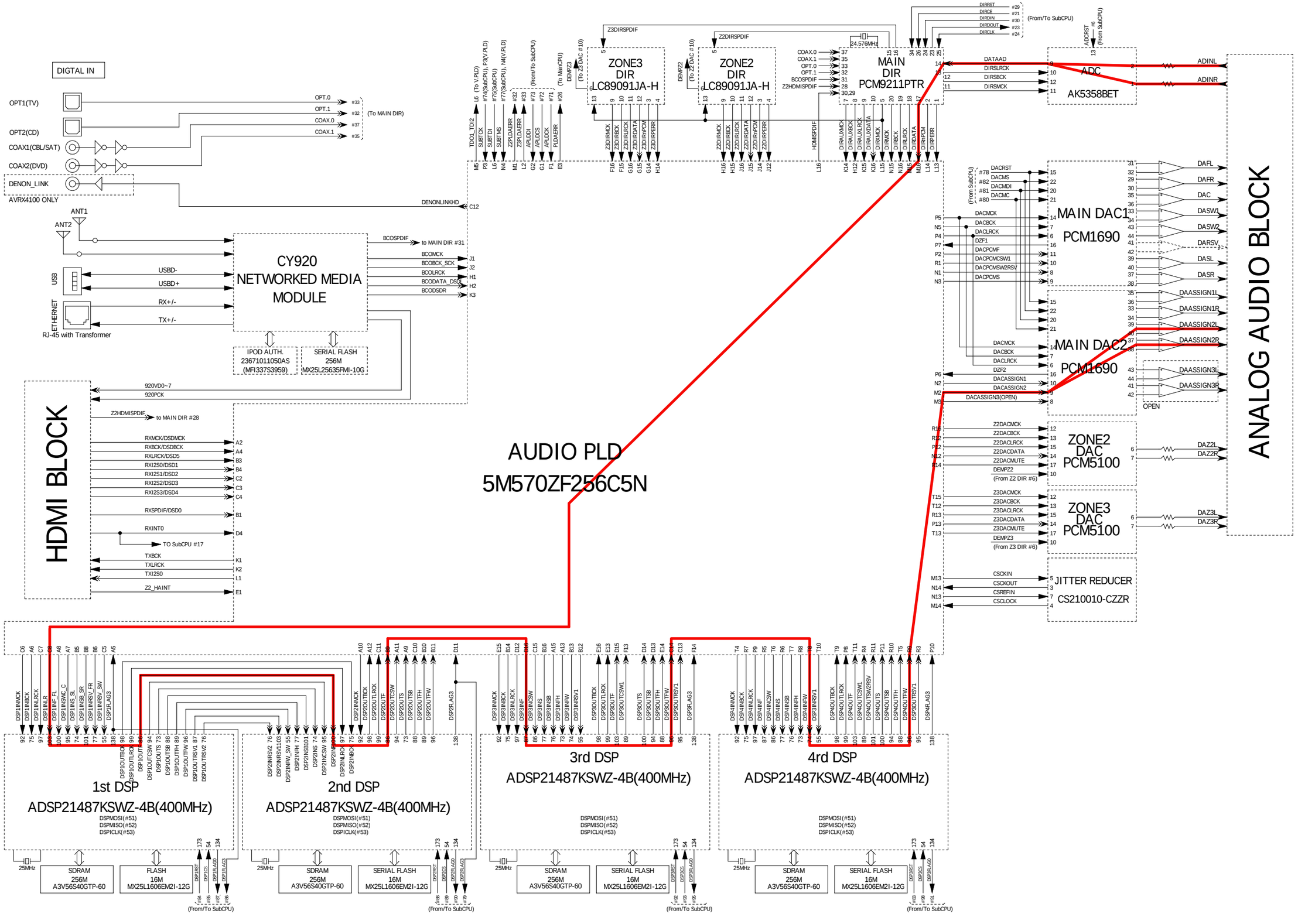

fig.12a

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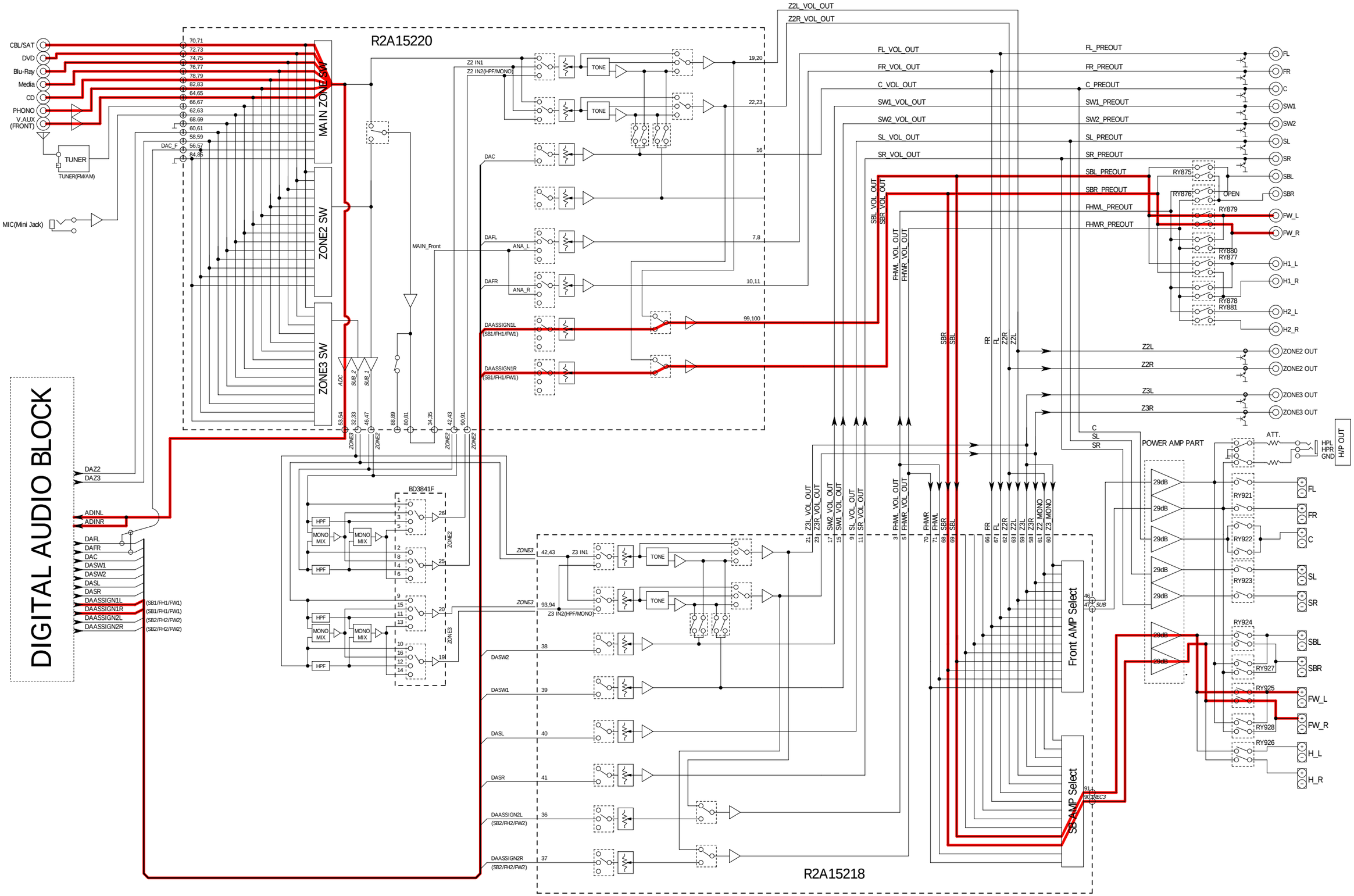

fig.12b

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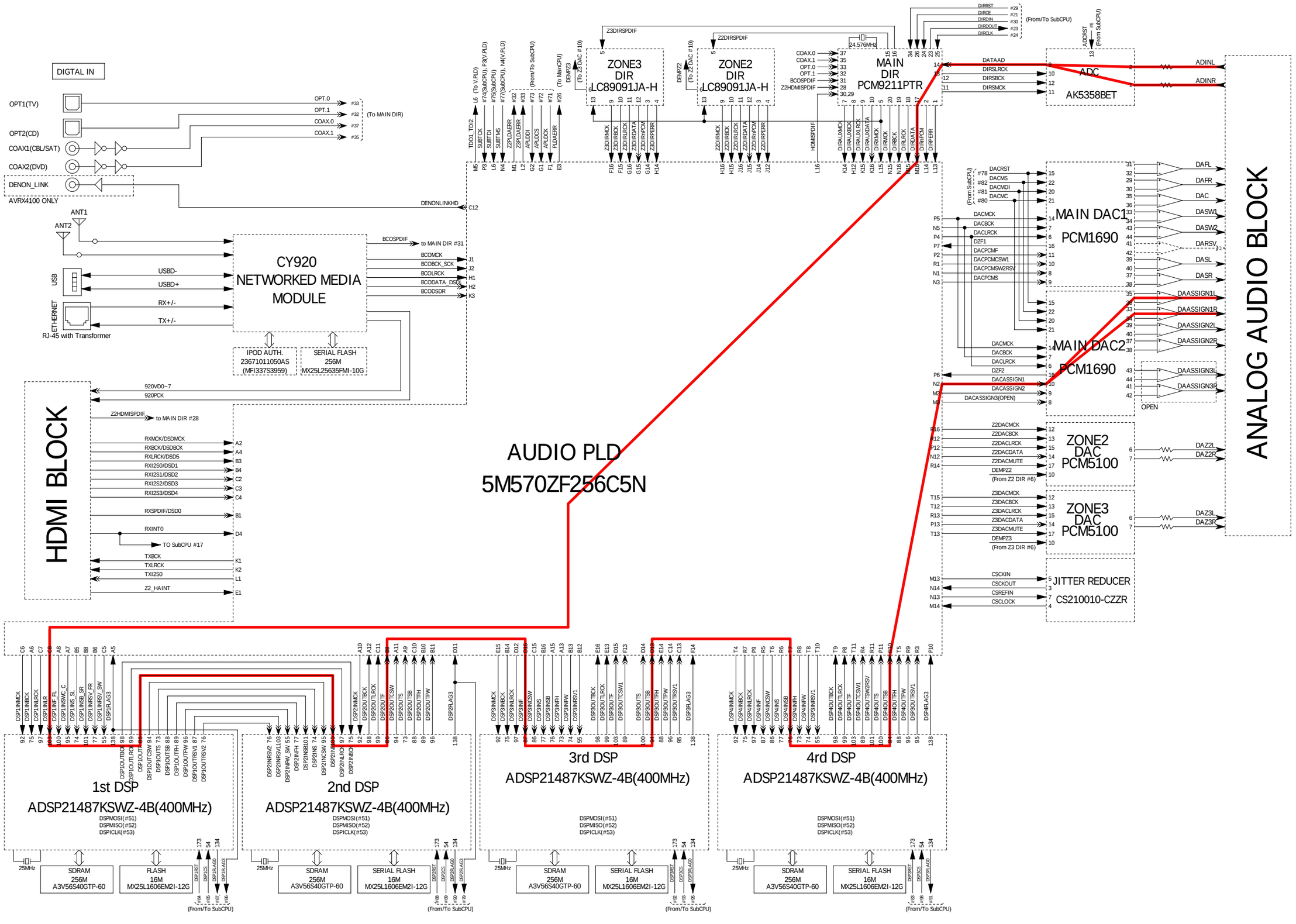

fig.13a

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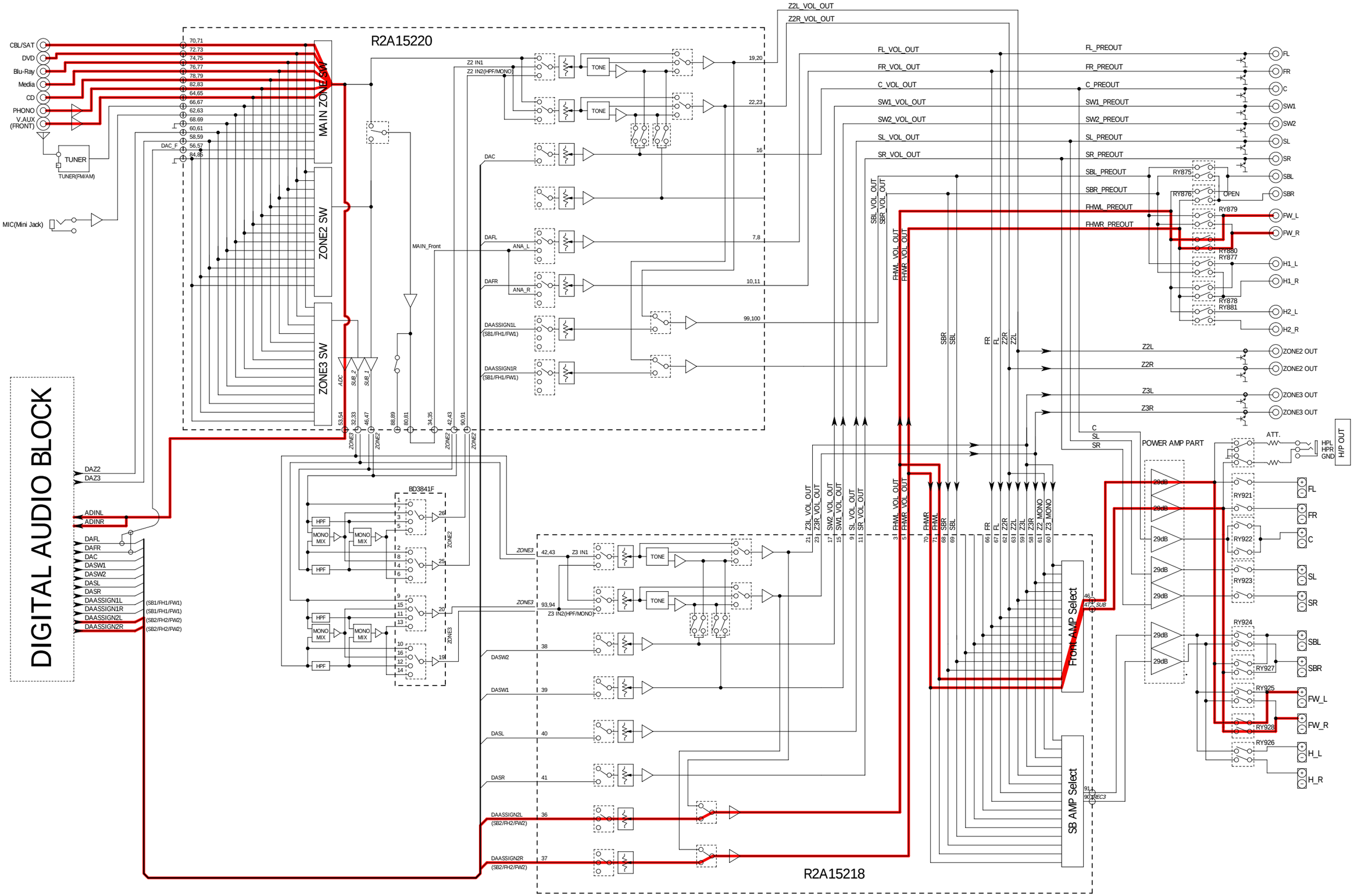

fig.13b

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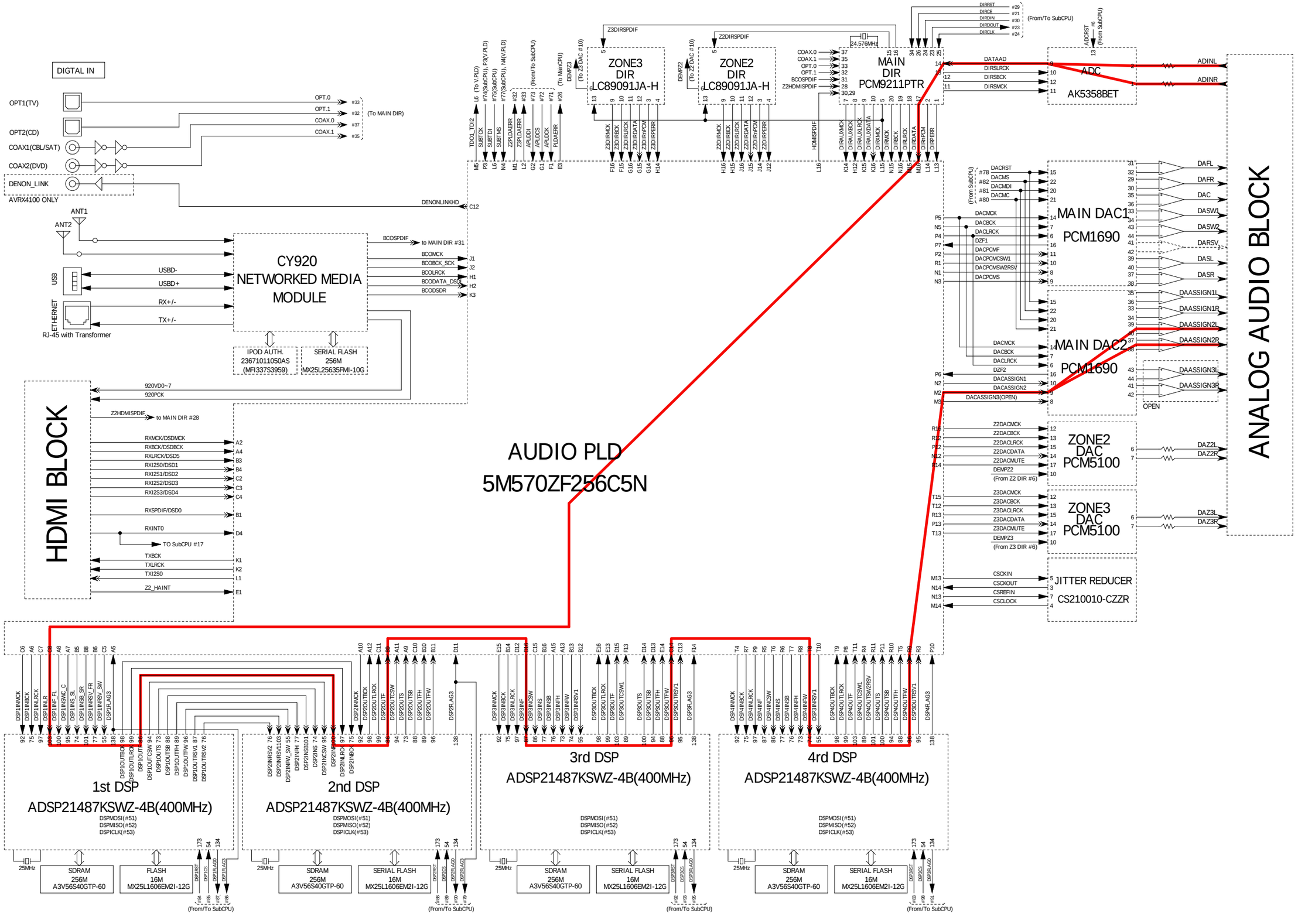

fig.14a

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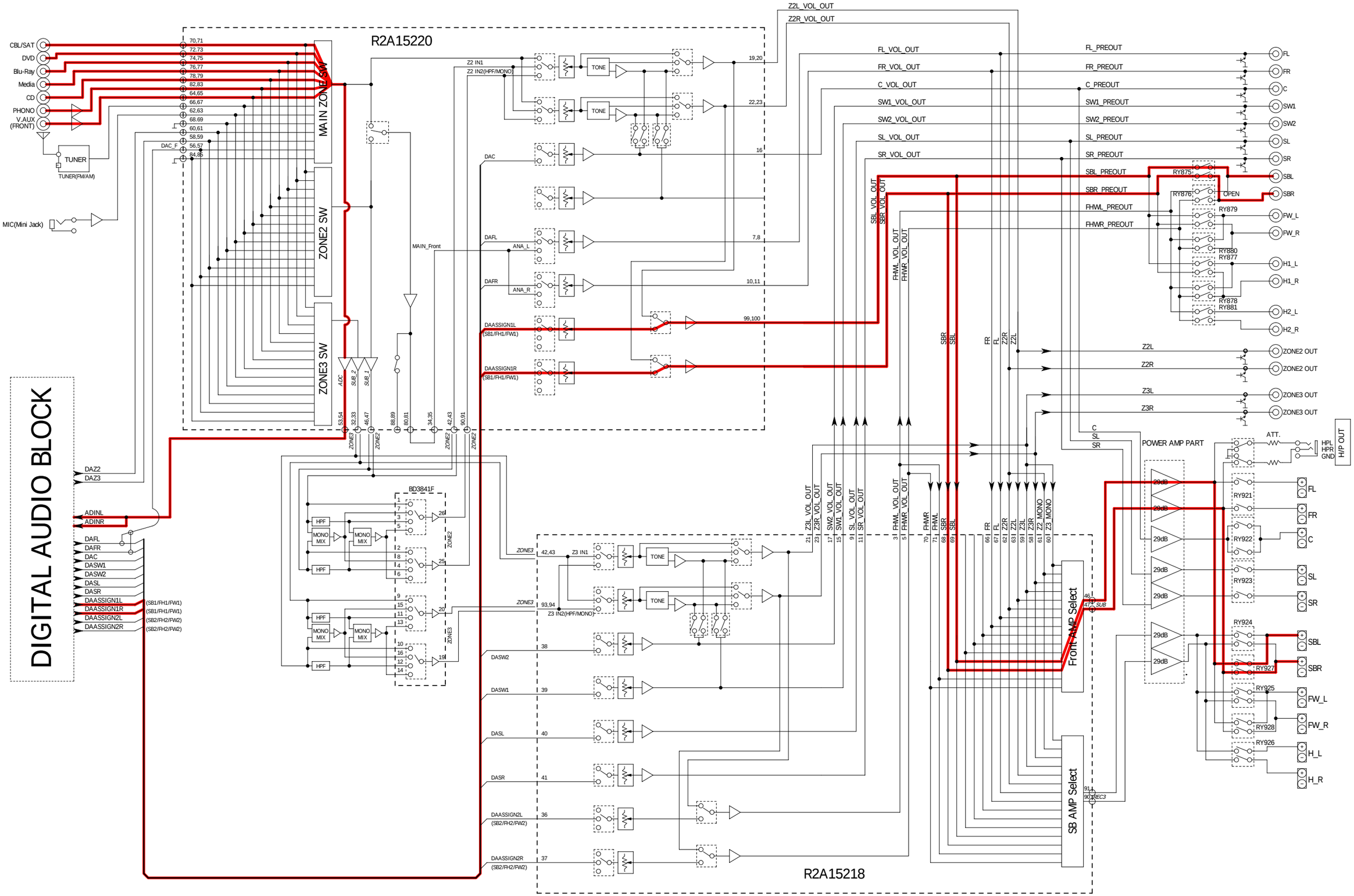

fig.14b

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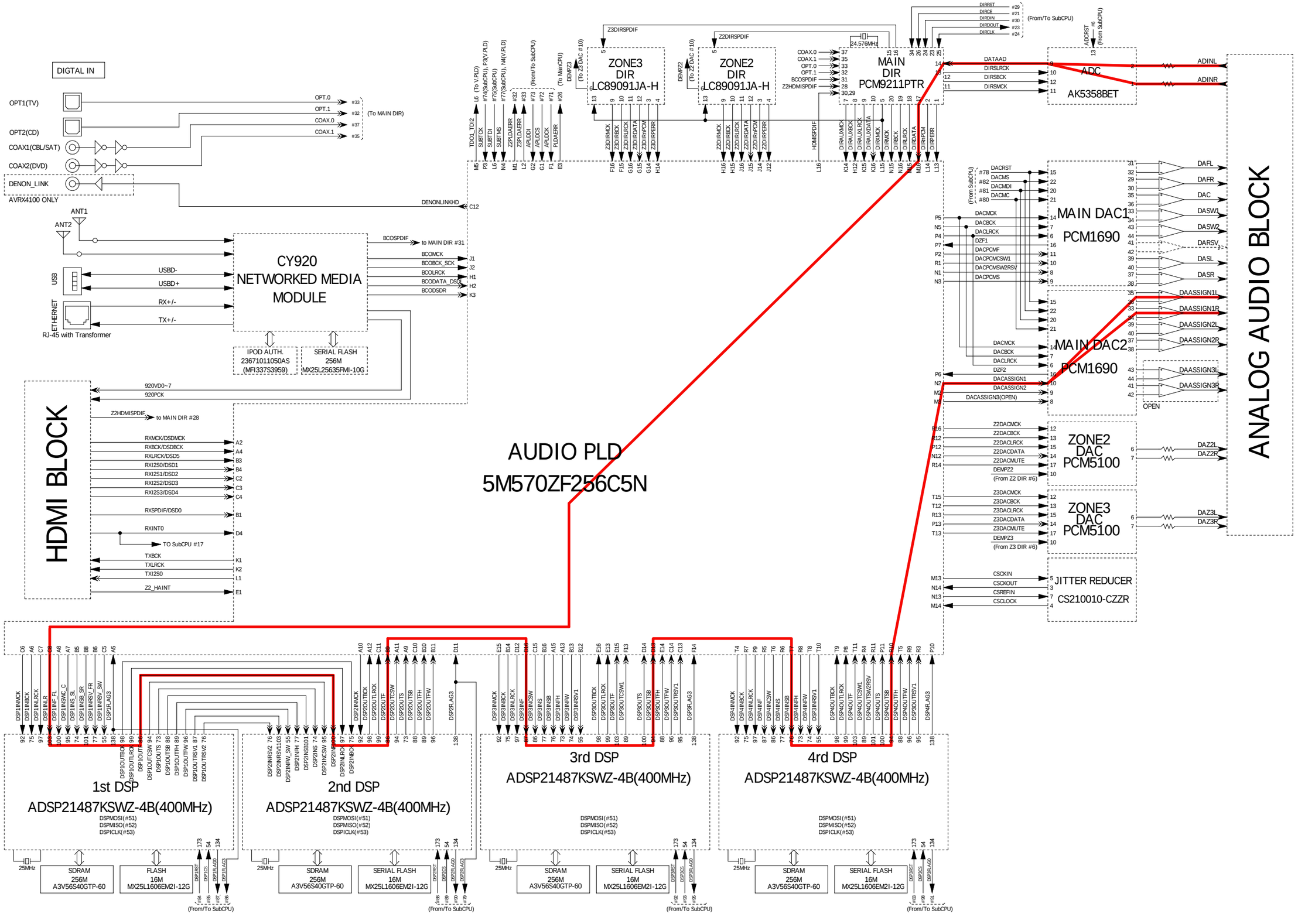

fig.15a

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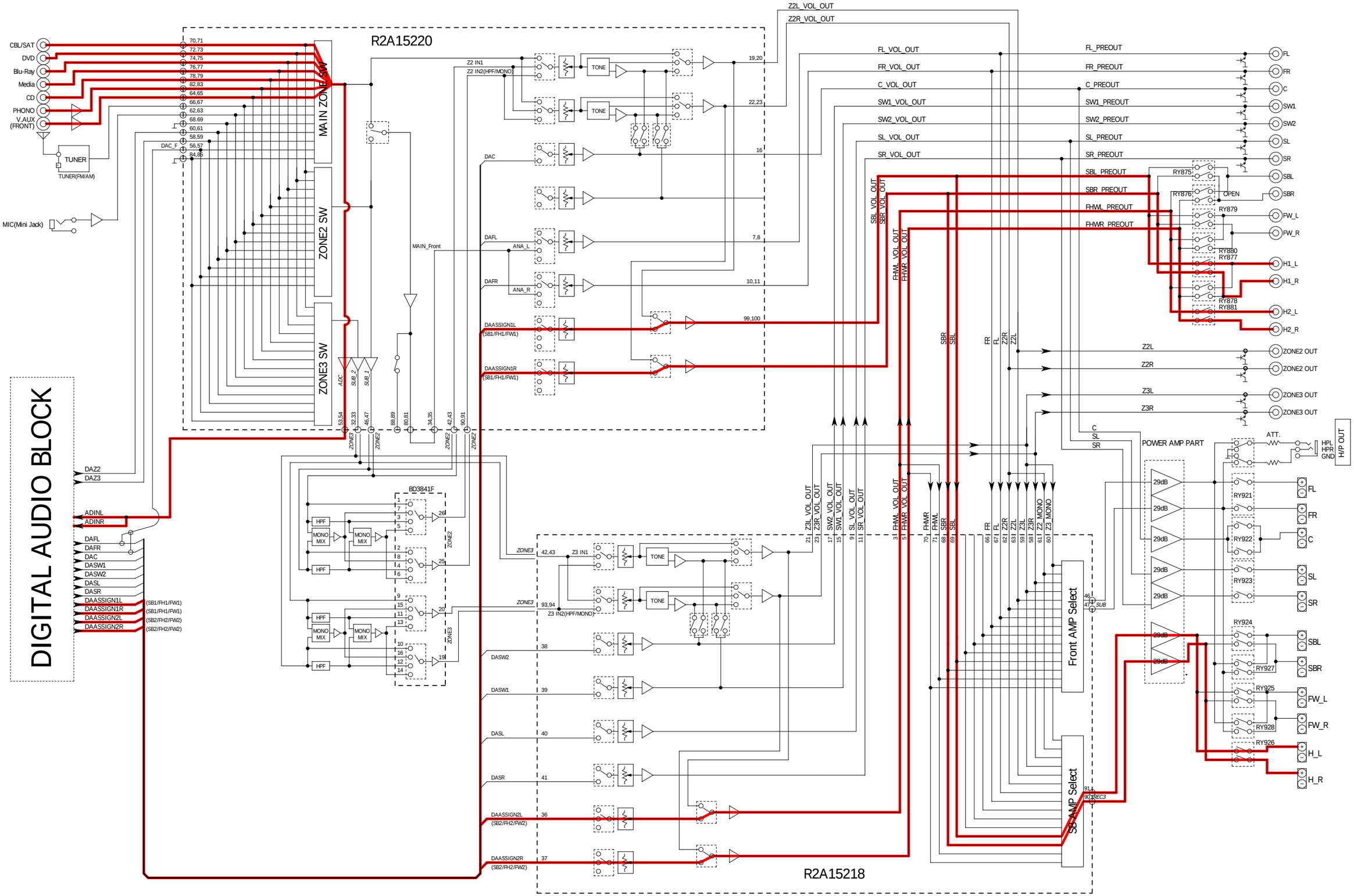

fig.15b

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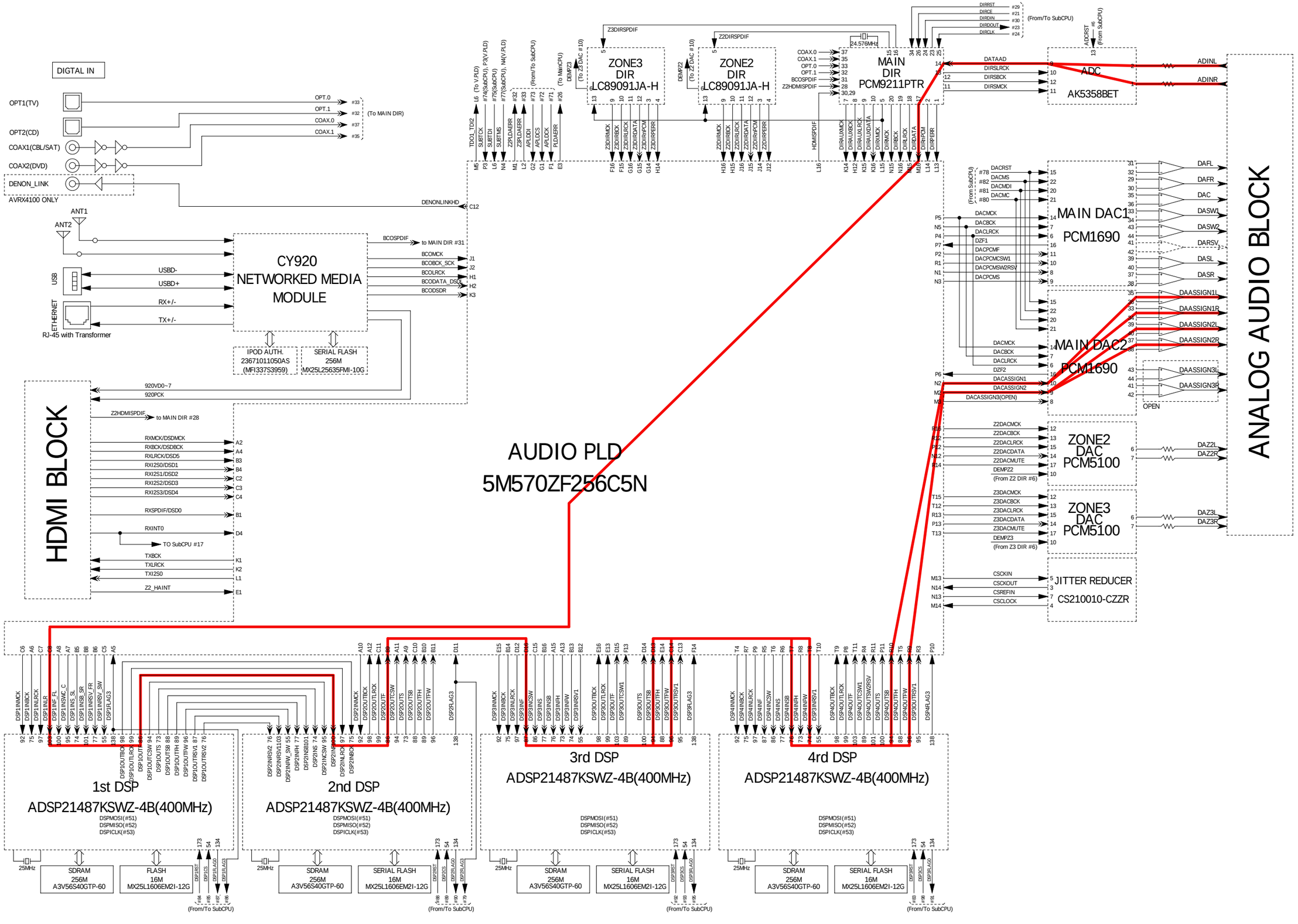

fig.16

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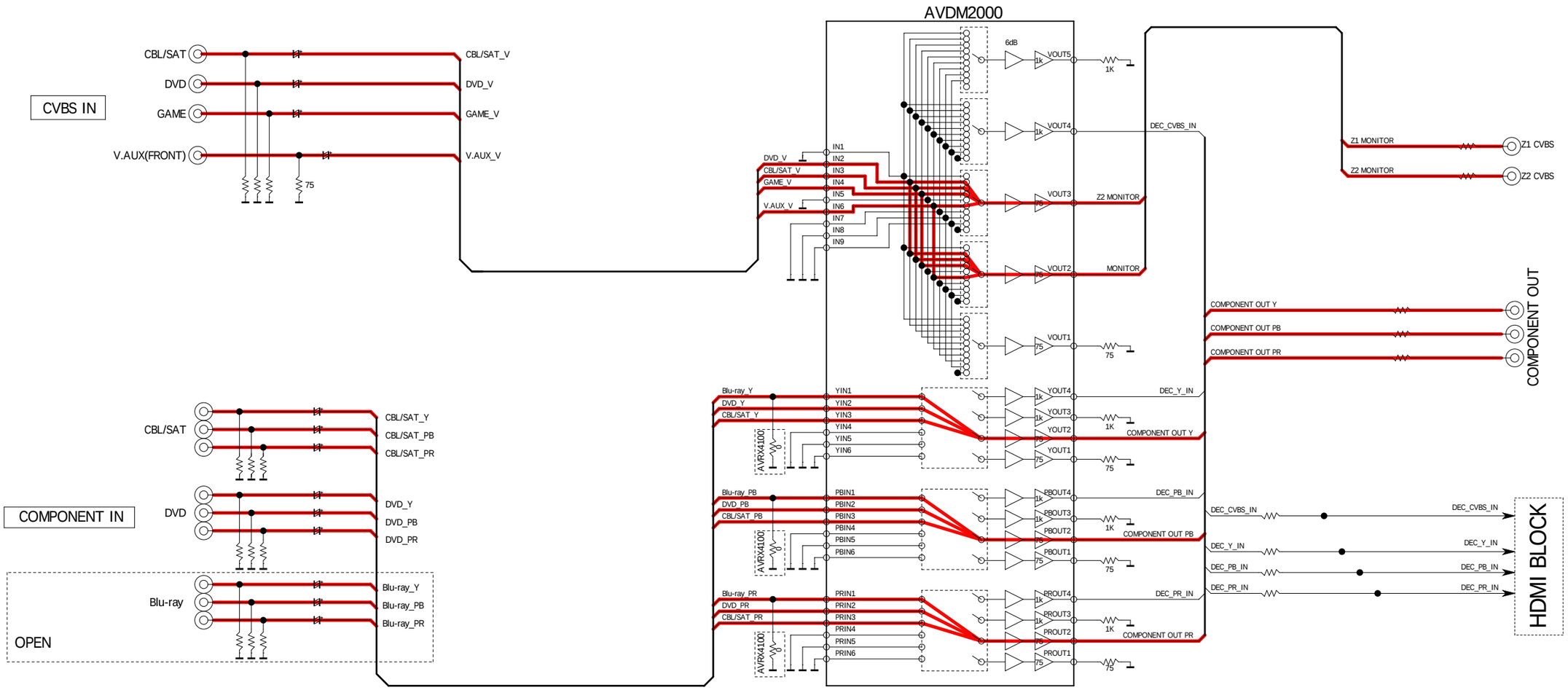

fig.17a

AVR-X4100W ANALOG VIDEO BLOCK

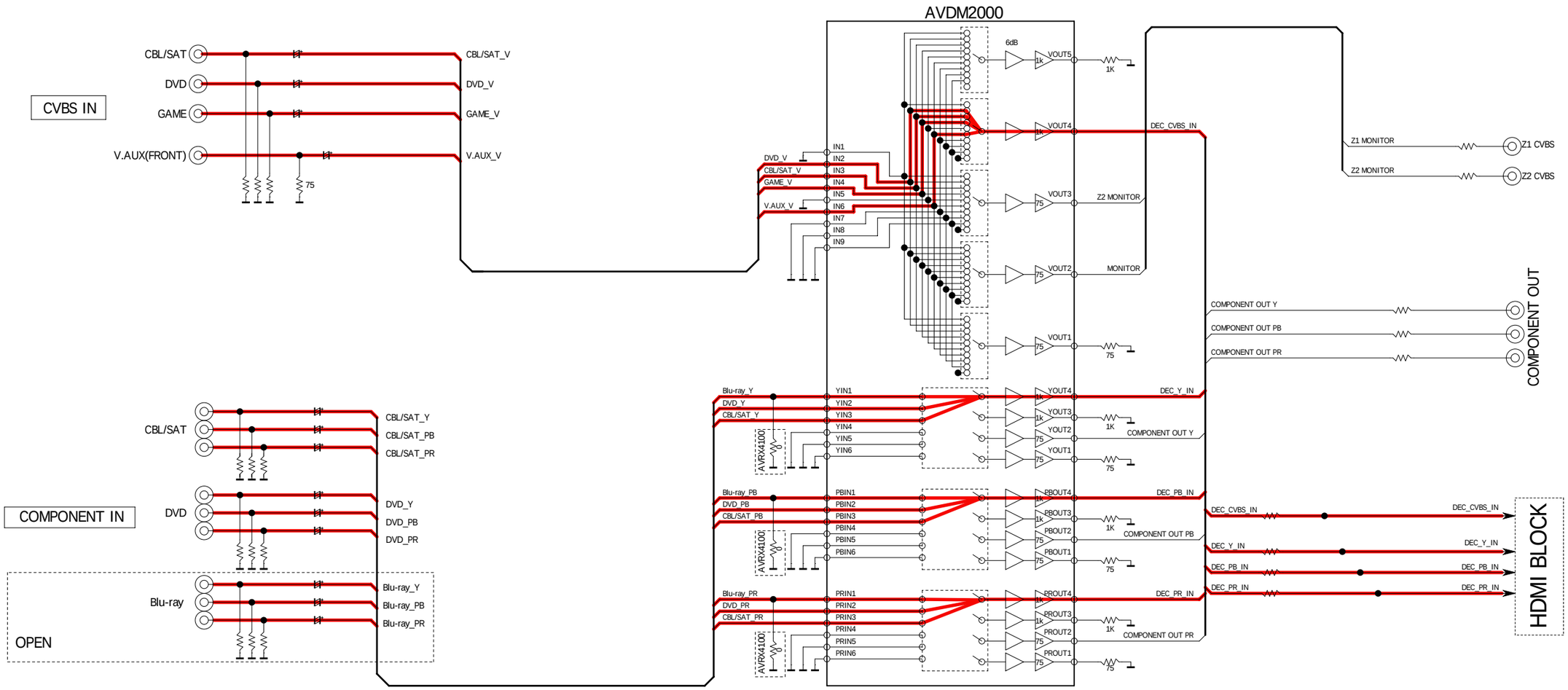

fig.17b

AVR-X4100W HDMI VIDEO BLOCK

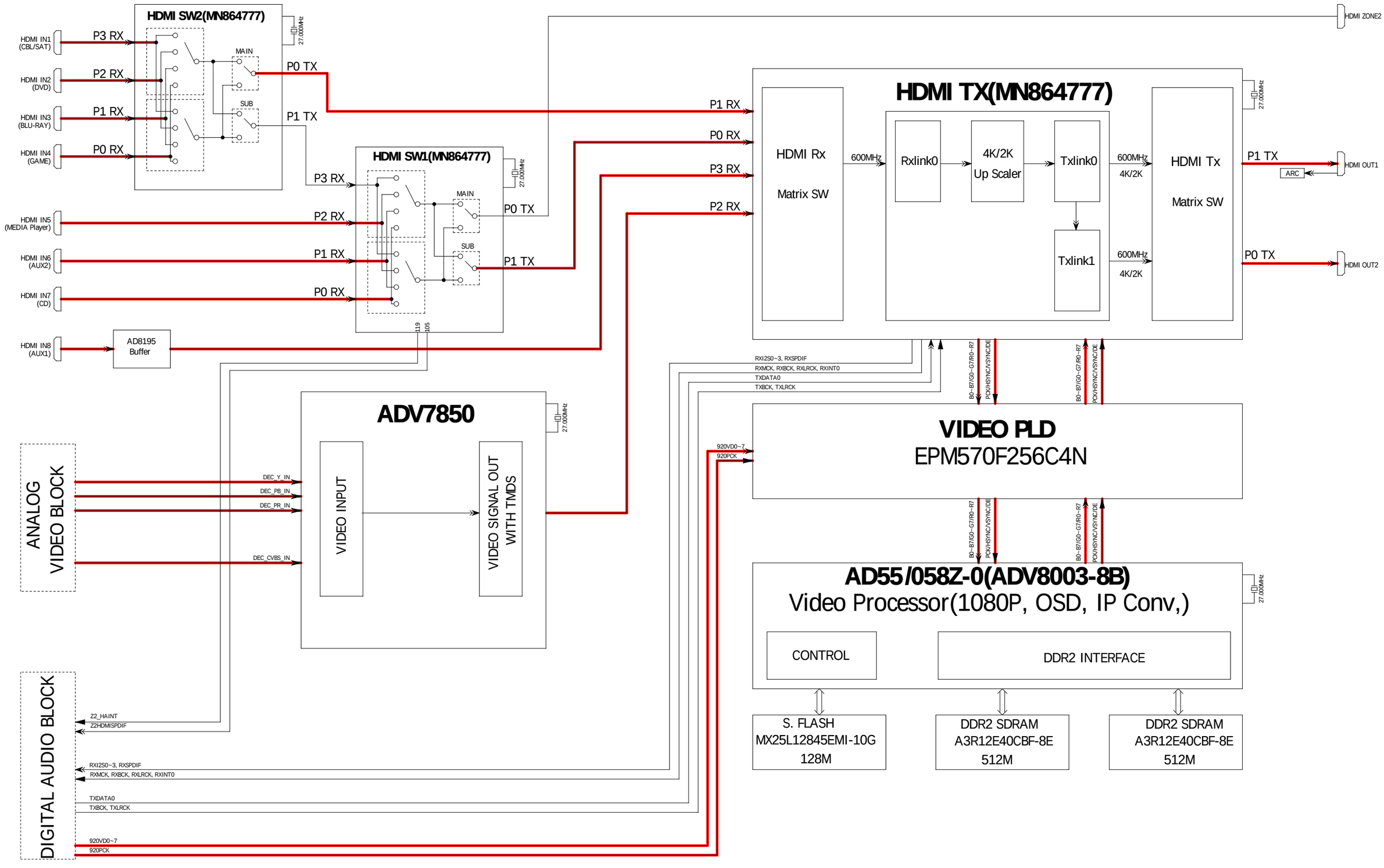

fig.18

AVR-X4100W HDMI VIDEO BLOCK

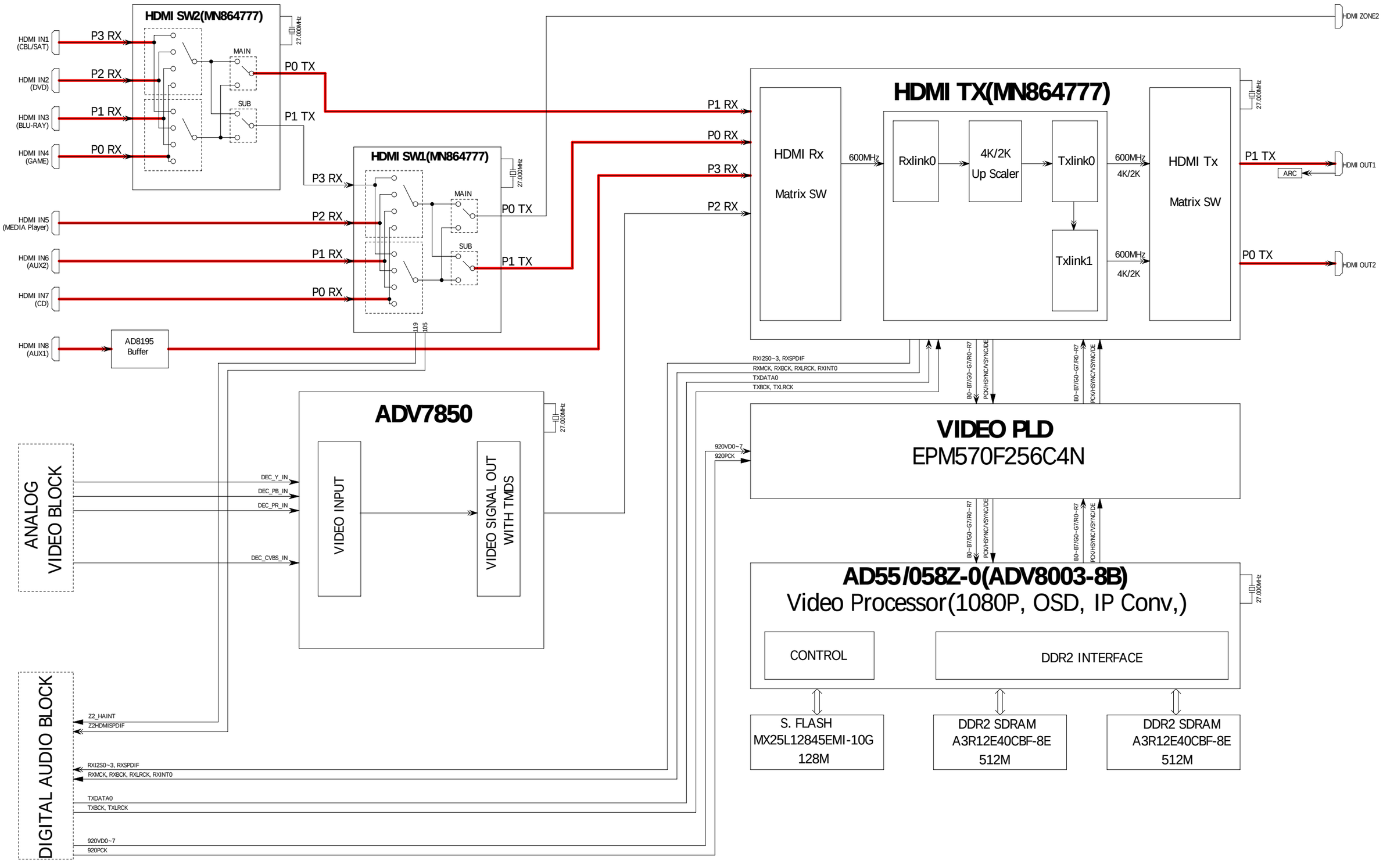

fig.19

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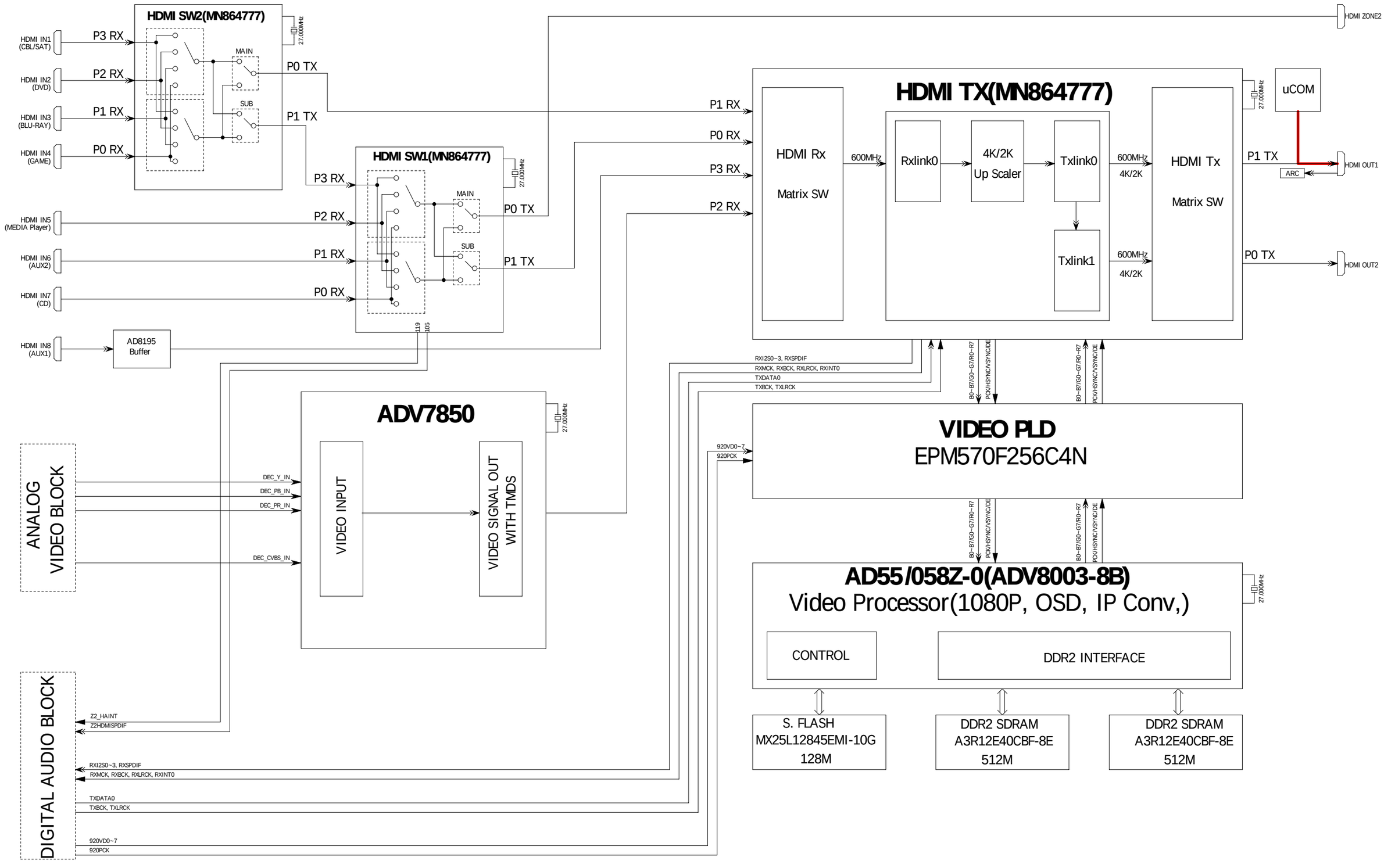

fig.20a

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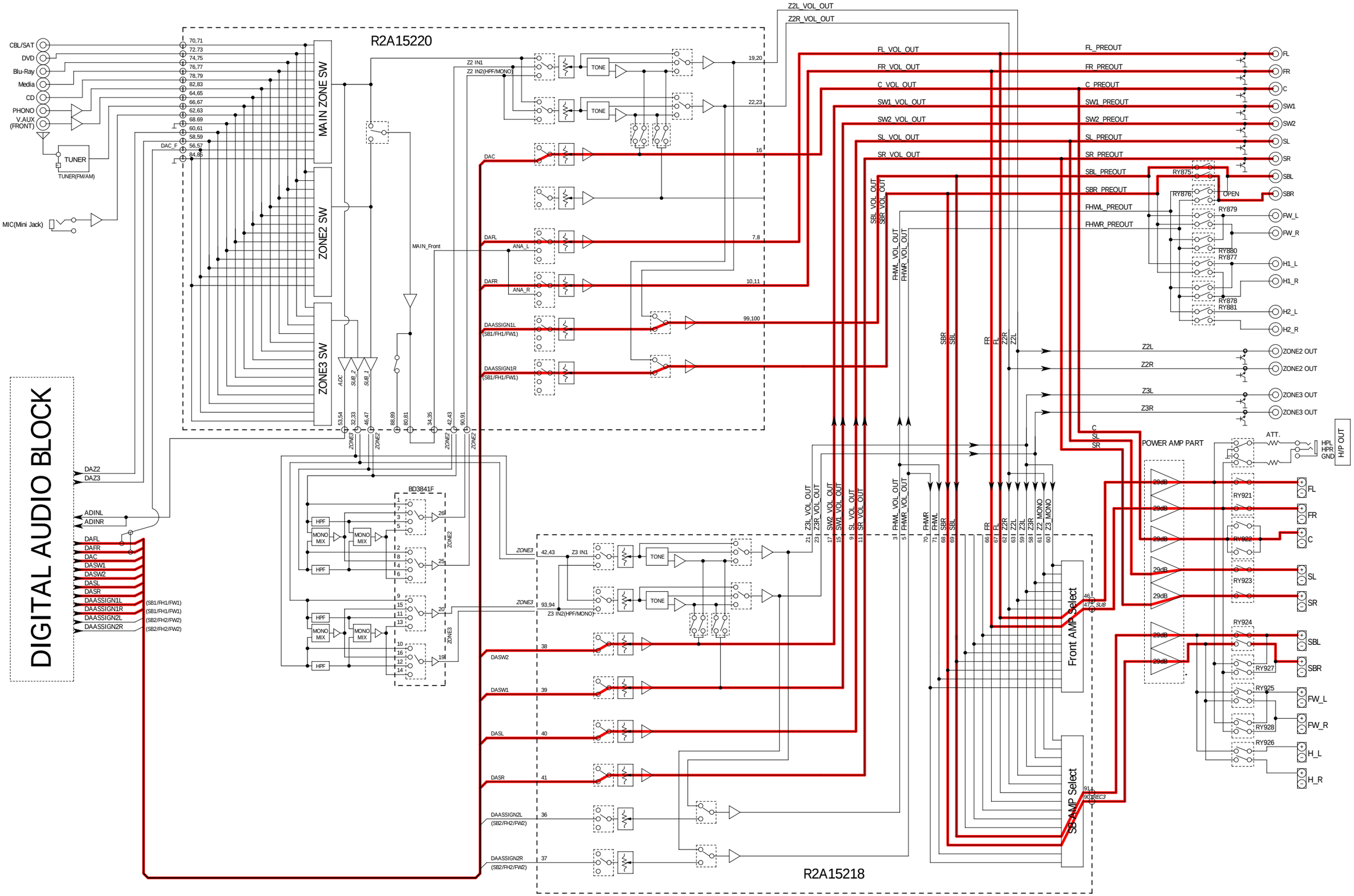

fig.20b

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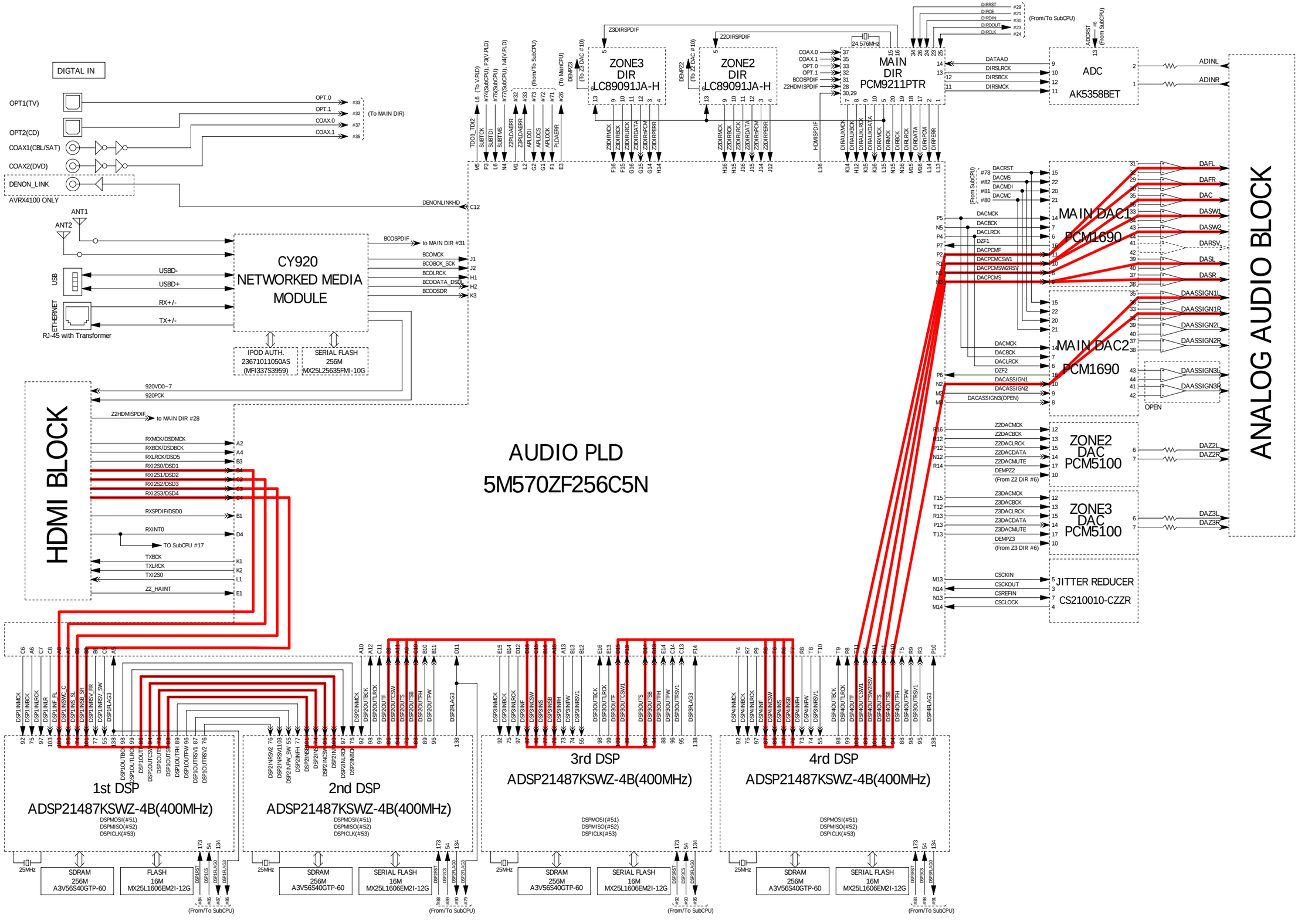


fig.20c

AVR-X4100W HDMI VIDEO BLOCK

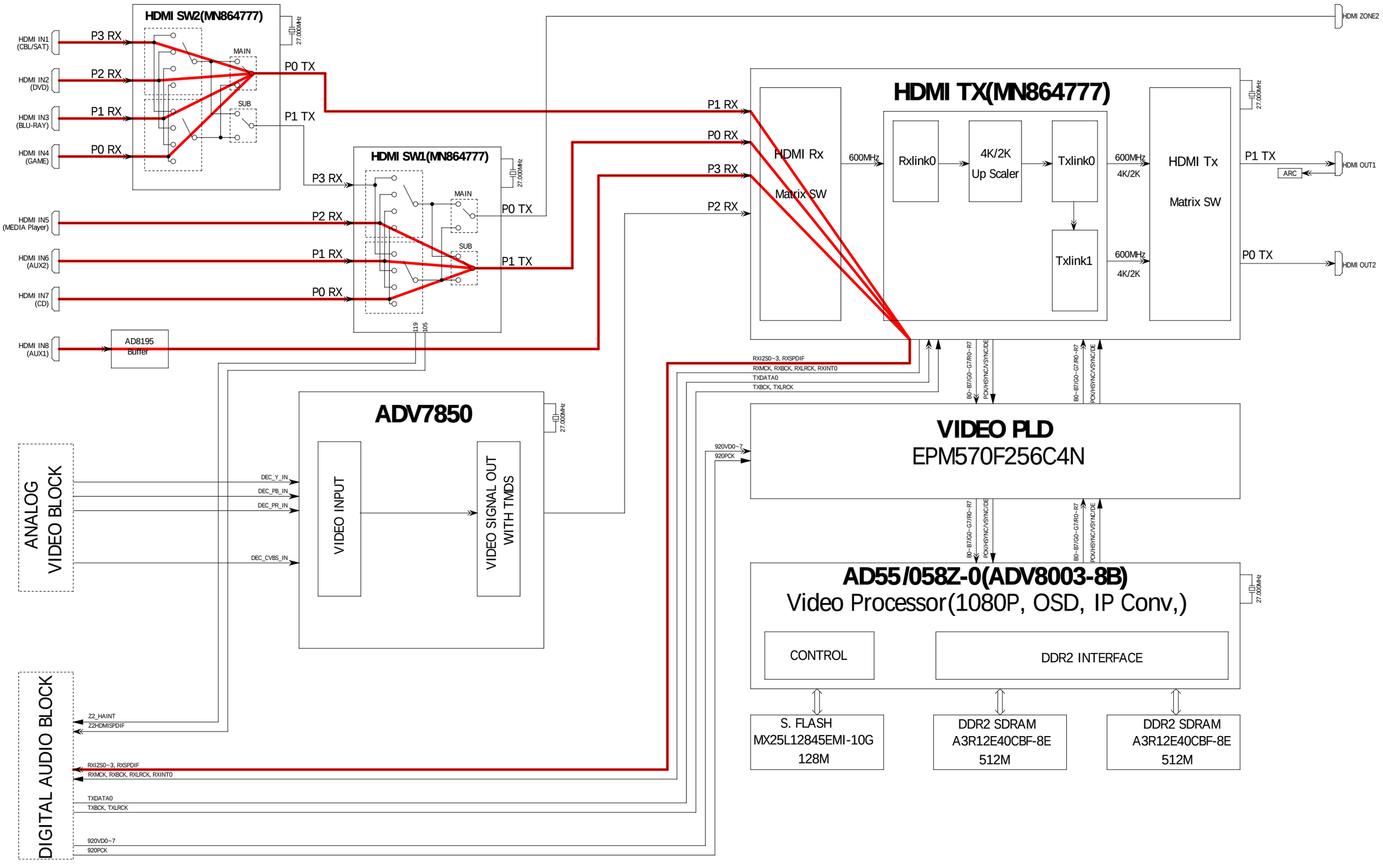


fig.21a

AVR-X4100W DIGITAL AUDIO BLOCK

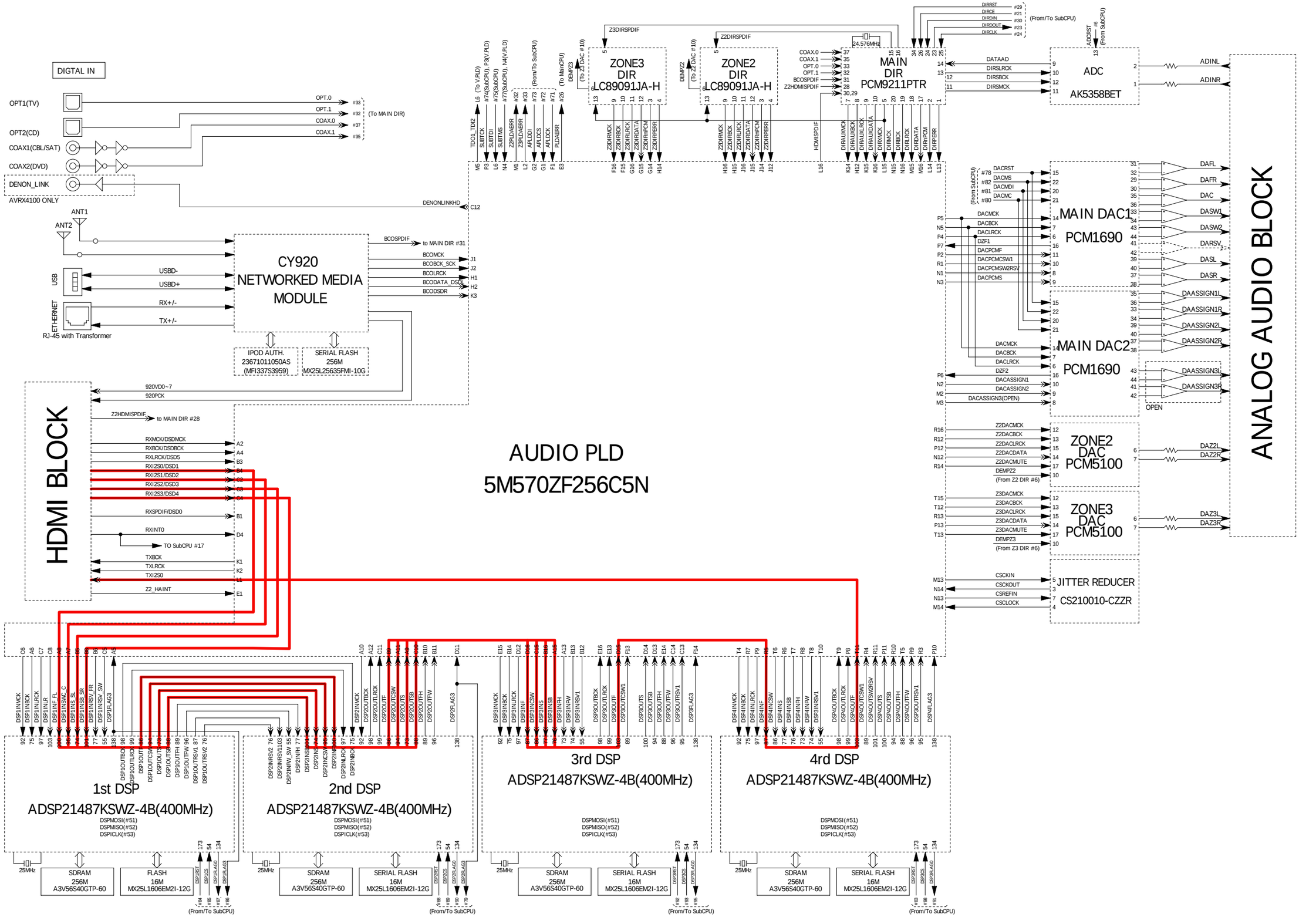


fig.21b

AVR-X4100W HDMI VIDEO BLOCK

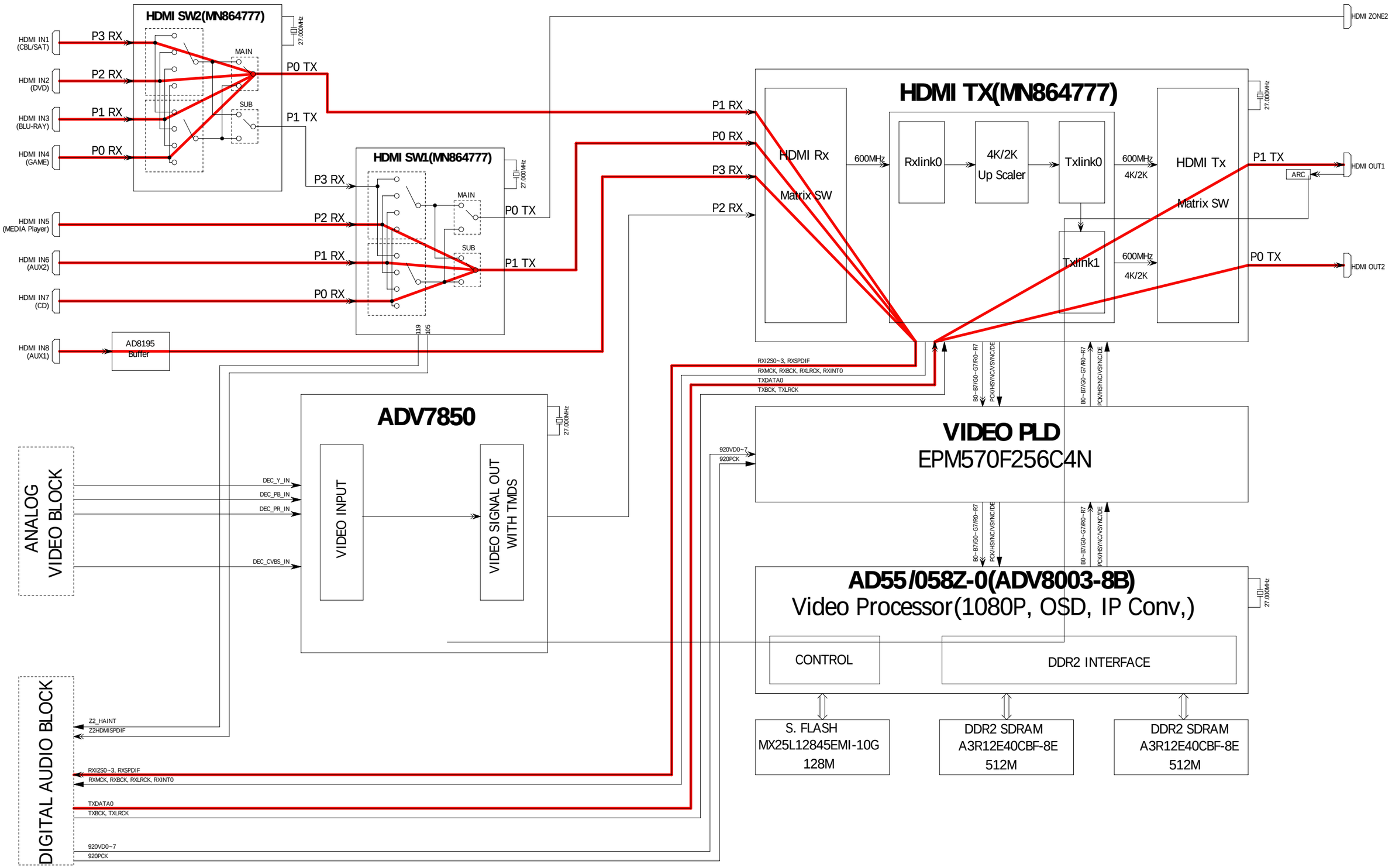


fig.22

AVR-X4100W HDMI VIDEO BLOCK

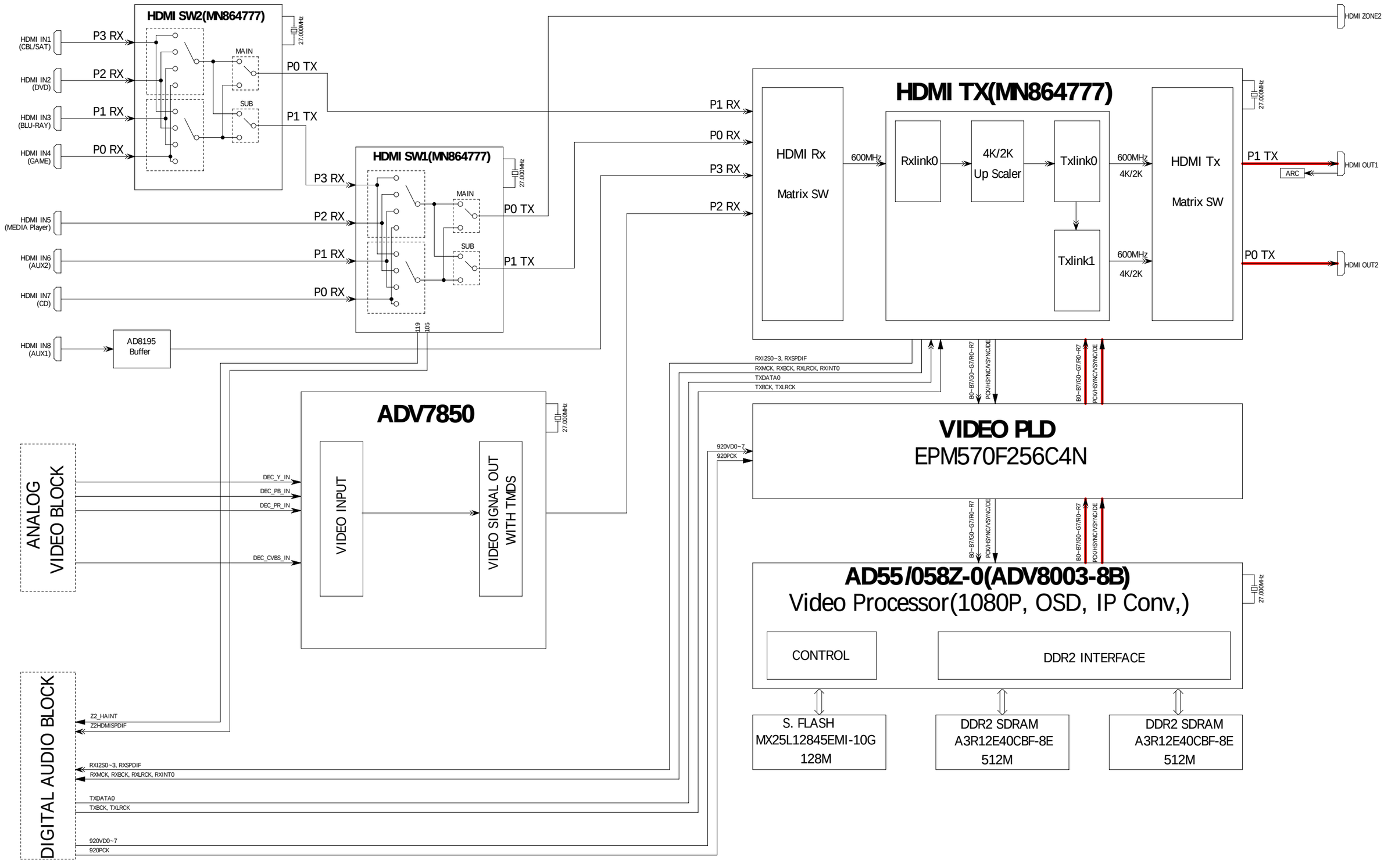
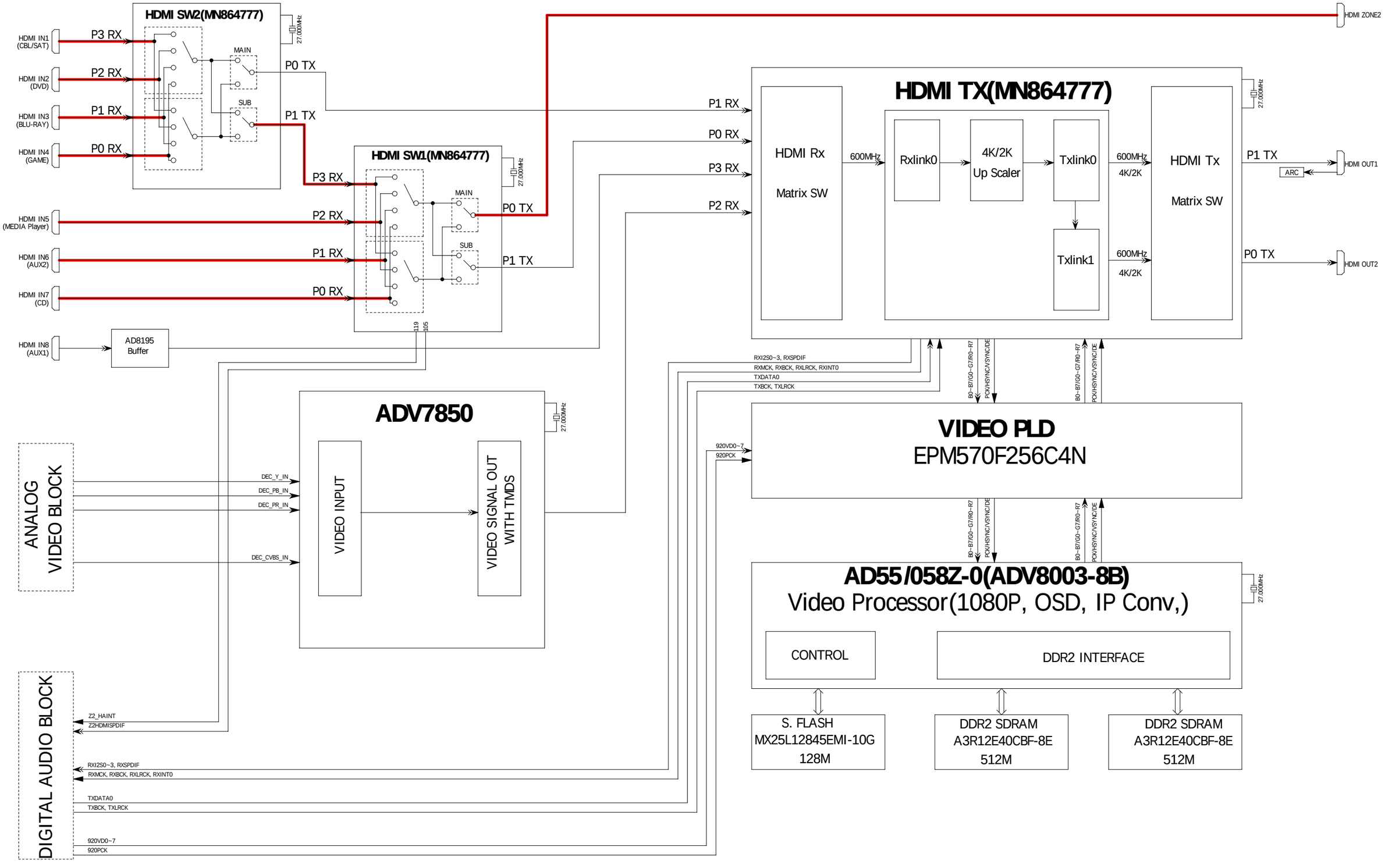


fig.23

AVR-X4100W HDMI VIDEO BLOCK



3.6. Protection History Display Mode

3.6.1. Actions

This mode records and displays an event in which the THERMAL, CURRENT, ASO or DC protection was activated.
If protections have been activated multiple times, the latest protection operation is recorded.

3.6.2. Starting up

Hold down buttons "**STATUS**" and "**ZONE3 SOURCE**" at the same time and press the power button to turn on the power.
Select the "**2. PROTECTION**" using the button "**CURSOR ▼/▲**", and press the button "**ENTER**" to commit the selection.

3.6.3. Protection information and displays

・Press the "**STATUS**" button in Protection History Display Mode.
・The protection history can be checked.

(a) If no protections have occurred.

FLD	L1	PROTECT HISTORY
	L2	:NO PROTECT

(b) ASO (if the last protection was ASO)

FLD	L2	:ASO

Cause:A short circuit occurred between the speaker terminals, or speakers with an impedance outside the rating were connected.
If the power is turned on during this abnormality, protection is activated after around 6 seconds and the power is turned off.

(c) DC(if the last protection was DC)

FLD	L2	:DC

Cause: Abnormal DC output from the power amp.
If the power is turned on during this abnormality, protection is activated after around 6 seconds and the power is turned off.

(d) THERMAL (if the last protection was THERMAL(A) or THERMAL(B) or THERMAL(E) or THERMAL(F))

FLD	L2	:THERMAL A
FLD	L2	:THERMAL B
FLD	L2	:THERMAL E
FLD	L2	:THERMAL F

Cause: Abnormal heat sink temperature.
If the power is turned on during this abnormality, protection is activated after around 6 seconds and the power is turned off.

(e) Case of CURRENT (when the last protection incident was CURRENT protection)

FLD	L2	:CURRENT

If the power is turned on during this abnormality, protection is activated after around 2 minutes and the power is turned off.

Caution：These protections may also be activated due to causes such as disconnection of connectors or operations around the microcomputer.
After viewing the above protection history, press the button "**STATUS**" to return to the normal display.

3.6.4. Clearing the Protection History

There are two ways to clear the protection history.

(a) Start Protection History Display Mode. Press the button "**STATUS**" to display the protection history. Press and hold the button "**ENTER**" for 3 seconds.

FLD	L1	P	R	O	T	E	C	T		H	I	S	T	O	R	Y	
	L2	:	D	C													

Press and hold the button "**ENTER**" for 3 seconds.

FLD	L2						C	L	E	A	R						

The above is displayed and the protection history is cleared.

FLD	L2	:	N	O		P	R	O	T	E	C	T					

(b) Initialize this unit. ("See "**Initializing This Unit**" 10 page)

※ Use the method in **3.6.3.(1)** if you do not want to erase your settings from this unit.

Warning Displays by POWER LED

If the power is turned off while a protection is detected, the POWER LED (red) flashes in the following ways as a warning according to the protection status.

(a) ASO/DC protection: Flashes in 0.5-second cycles (0.25 seconds lit, 0.25 seconds unlit)
(b) THERMAL (E/F) protection: Flashes in 2-second cycles (1 second lit, 1 second unlit)
(c) CURRENT protection: Flashes in 4-second cycles (2 seconds lit, 2 seconds unlit)

3.7. 232C Standby Clear Mode

3.7.1. Actions

Switches from 232C standby mode to normal standby mode.

3.7.2. Starting up

Hold down buttons "**STATUS**" and "**ZONE3 SOURCE**" at the same time and press the power button to turn on the power.

Select the "**3.RS232C RESET**" using the button "**CURSOR ▼/▲**", and press the button "**ENTER**" to commit the selection.

FLD	L1		2	.	P	R	O	T	E	C	T	I	O	N			
	L2	▶	3	.	R	S	2	3	2	C		R	E	S	E	T	

3.8. Operation Info Mode

3.8.1. Actions

This mode displays the accumulated operating time, power on count and each protection count.

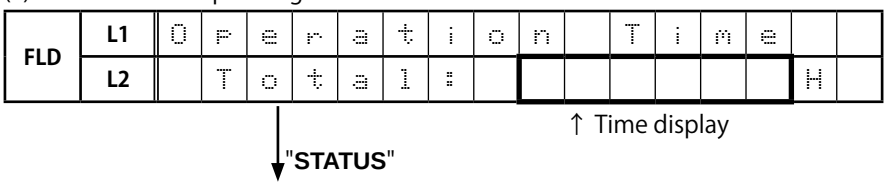
3.8.2. Starting up

Hold down buttons "**STATUS**" and "**ZONE3 SOURCE**" at the same time and press the power button to turn on the power.
Select the "**4. OP INFO**" using the button "**CURSOR ▼/▲**", and press the button "**ENTER**" to commit the selection.

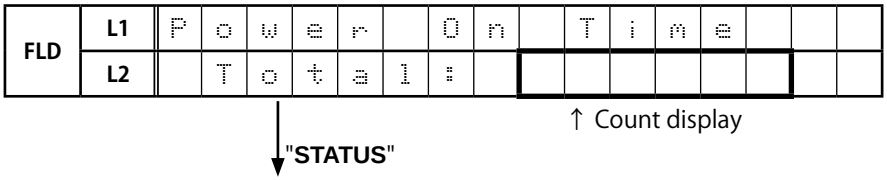
3.8.3. Operations

Press the "**STATUS**" button after starting this device in Operation Info mode.
The following information is displayed in the following order.

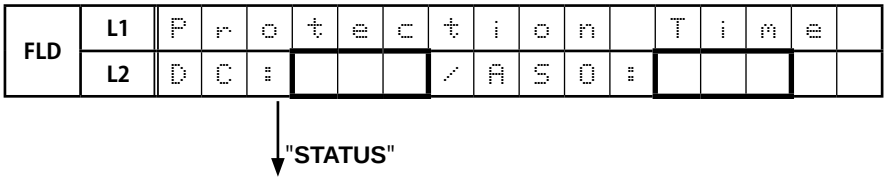
(a) Accumulated operating time



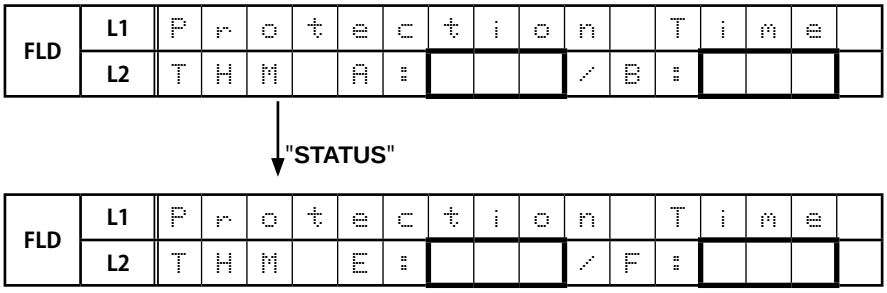
(b) Power on count



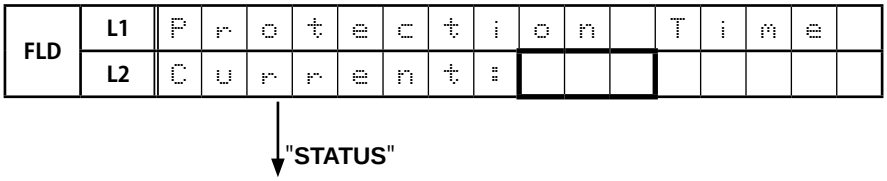
(c) DC / ASO Protection count



(d) Thermal Protection count



(e) CURRENT Protection count



(Returns to normal display)

3.7. TUNER STEP mode (E2/E3 only)

3.9.1. Actions

This is a special mode for enabling reception STEP of the ANALOG TUNER to be changed.

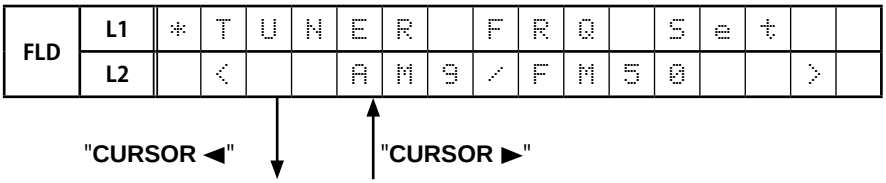
3.9.2. Starting up

Hold down buttons "**STATUS**" and "**ZONE3 SOURCE**" at the same time and press the power button to turn on the power.
Select the "**5. TUNER FRQ SET**" using the button "**CURSOR ▼/▲**", and press the button "**ENTER**" to commit the selection.

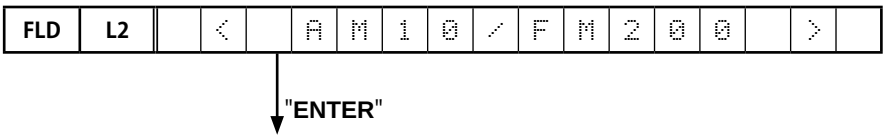
3.9.3. Displays

Start this unit in TUNER STEP mode, select using button "**CURSOR ◄/►**" and enter using button "**ENTER**".
The following information is displayed in the following order.

(1) AM9kHz/FM50kHz selected



(2) AM10kHz/FM200kHz selected



(3) Press the power button to turn off the power.
(4) Press the power button to turn on the power.

4. Remote ID Setup Mode

4.1. Actions

This function allows only the desired AV receiver to be operated if multiple DENON AV receivers are used in the same room.

4.2. Starting up

Hold down buttons "**STATUS**" and "**ZONE3 SOURCE**" at the same time and press the power button to turn on the power.
Select the "**6. REMOTE ID**" using the button "**CURSOR ▼/▲**", and press the button "**ENTER**" to commit the selection.

4.3. Operations

(1) When Remote ID Setup mode is started, the following is displayed.

FLD	**L1**															
	L2				R	E	M	O	T	E		I	D		?	

(2) Press the "**QUICK SELECT 1 - 4**" button that corresponds to the number you want to set.

Button	Display
QUICK SELECT 1	**L2** REMOTE ID 1
QUICK SELECT 2	**L2** REMOTE ID 2
QUICK SELECT 3	**L2** REMOTE ID 3
QUICK SELECT 4	**L2** REMOTE ID 4

(3) Press the power button to turn off the power.
(4) Press the power button to turn on the power.

※ Only "**QUICK SELECT 1 - 4**" and the POWER button on the unit can be used in Remote ID Setup Mode.

4.4. Setting the Remote coutrol unit

(1) Press and hold "**DEVICE MENU**" button for at least 3 seconds "**DEV.**", "**TU**" and "**AVR**" indicators flash time.

(2) Press the "**MAIN**" button.
The "**DEV.**", "**TU**" and "**AVR**" indicators flash twice.

(3) Press the "**1**", "**2**", "**3**" or "**4**" button.
The "**DEV.**", "**TU**" and "**AVR**" indicators flash twice.

NOTE:
If the ID of the unit and remote control do not match, "**AVAMP**✻" appears on the display of the unit when the remote control is used (*: own remote control ID).

5. Protection Pass Mode

5.1. Actions

• This mode allows the power to be turned on without activating protections.
• This is the same as normal power-on, except that protections are not activated.

5.2. Operations

Hold down buttons "**CURSOR ◄**", "**STATUS**" and "**ZONE3 SOURCE**" at the same time and press the power button to turn on the power.
The device returns to the normal display after the following is displayed.

FLD	L1	P	r	o	t	e	c	t	i	o	n		P	a	s	s	

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

6. CX870 / CY920 Reboot mode

6.1. Actions

• The CX870 / CY920 is restarted after CX870 / CY920 hangup.
• The CX870 / CY920 can be restarted even in the network standby setting.
("**Setup menu**" – "**Network**" – "**IP Control**" – "**Always On**")

6.2. Operations

(1) Select "**Online Music**" as the input source.
(2) Hold down buttons "**DIMMER**" and "**SETUP**" for at least 3 seconds while the power is on.
FL display during CX870 / CY920 reboot

FLD	L1	N	e	t	w	o	r	k		R	e	s	t	a	r	t	

3. Returns to the normal display.

NOTE:
• The CX870 / CY920 Reboot operation is not accepted again for one minute after executing the reboot.
• Reception is prohibited during update, save and load.

7. CX870 / CY920 Initialization mode

7.1. Actions

The following items are initialized.
(1) Favorites
(2) Quick Select
(3) Presets
(4) Internet Radio Recently Played
(5) Flickr contacts
(6) User ID
(7) Resume Playback station

7.2. Operations

(1) Select "**Online Music**"
(2) Hold down buttons "**DIMMER**" and "**CURSOR ►**" for at least 3 seconds while the power is on.

Initializing Display

FLD	L1															
FLD	L1	I	n	i	t	i	a	l	i	z	i	n	g			
FLD	L1	I	n	i	t	i	a	l	i	z	i	n	g	.		
FLD	L1	I	n	i	t	i	a	l	i	z	i	n	g	.	.	
FLD	L1	I	n	i	t	i	a	l	i	z	i	n	g	.	.	.

Complete Display

FLD	L1															
FLD	L1				C	o	m	p	l	e	t	e	d			

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

Failed Display

FLD	L1															
FLD	L1						F	a	i	l	e	d				

JIG FOR SERVICING

The following jigs (extension cable kit) are used when repairing the PCBs.
Order the jigs from your dealer if necessary.

CAUTION : Incorrect connections may cause malfunction.

• Connection of Jig for DIGITAL PCB

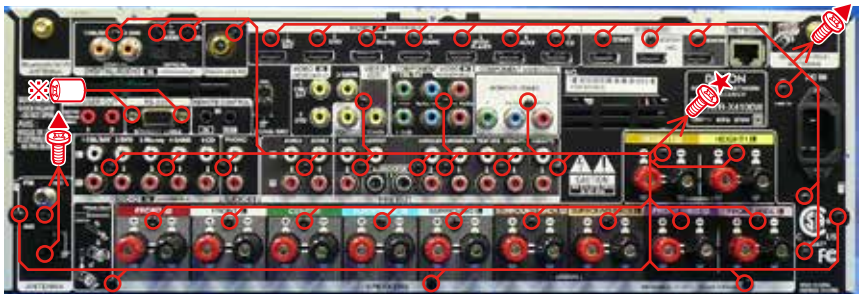
-Items to Be Prepared-

8U- 110084S	:	EXTENSION UNIT KIT	:	1 Set
8U- 110136S	:	EXTENSION UNIT KIT	:	1 Set

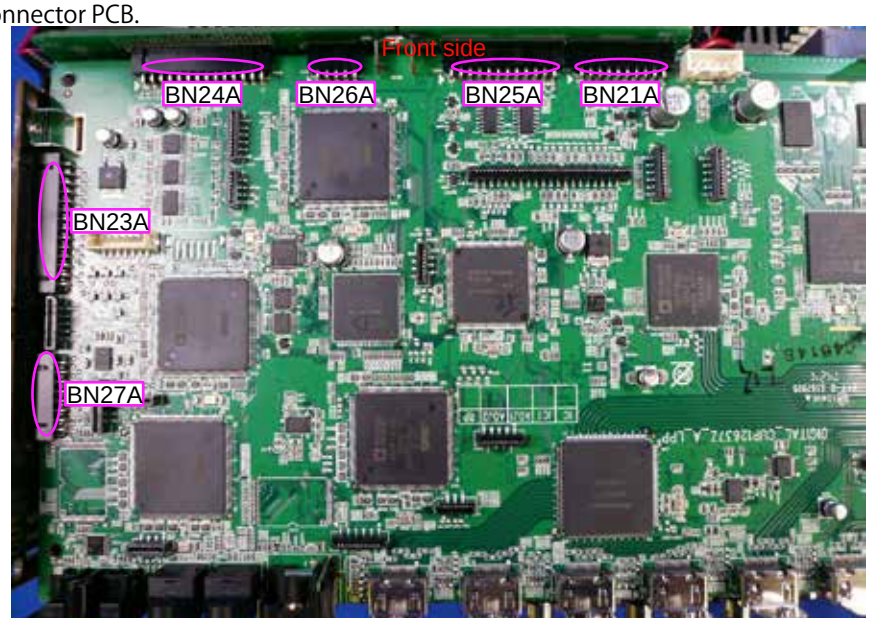
Insulation sheet (Not supplied)	:	3 sheet
Ground lead (Not supplied)	:	3 pc

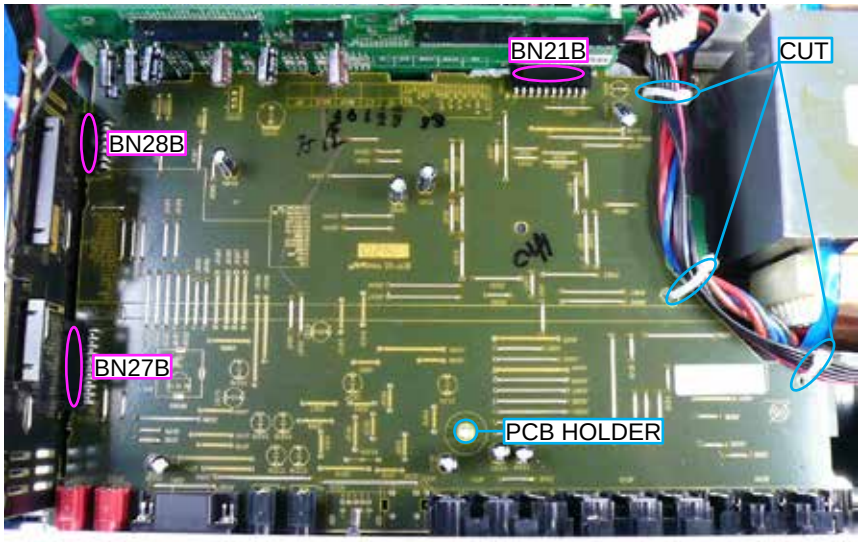
-Procedures-

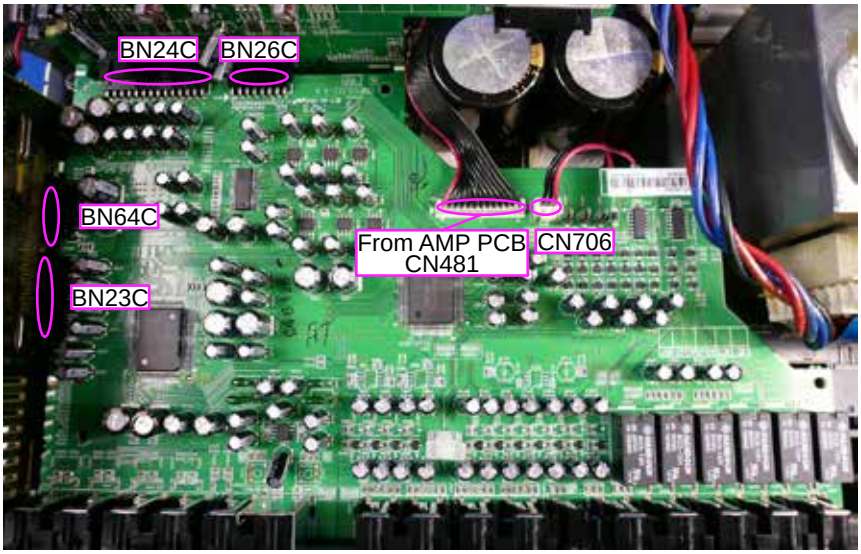
(1) Remove the screws.



(2) Remove the connector PCB.

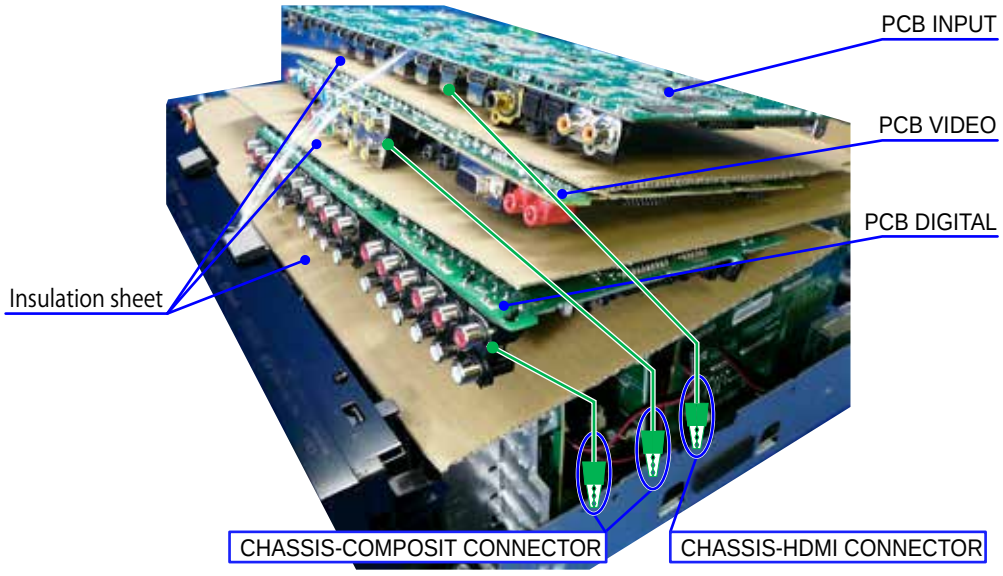




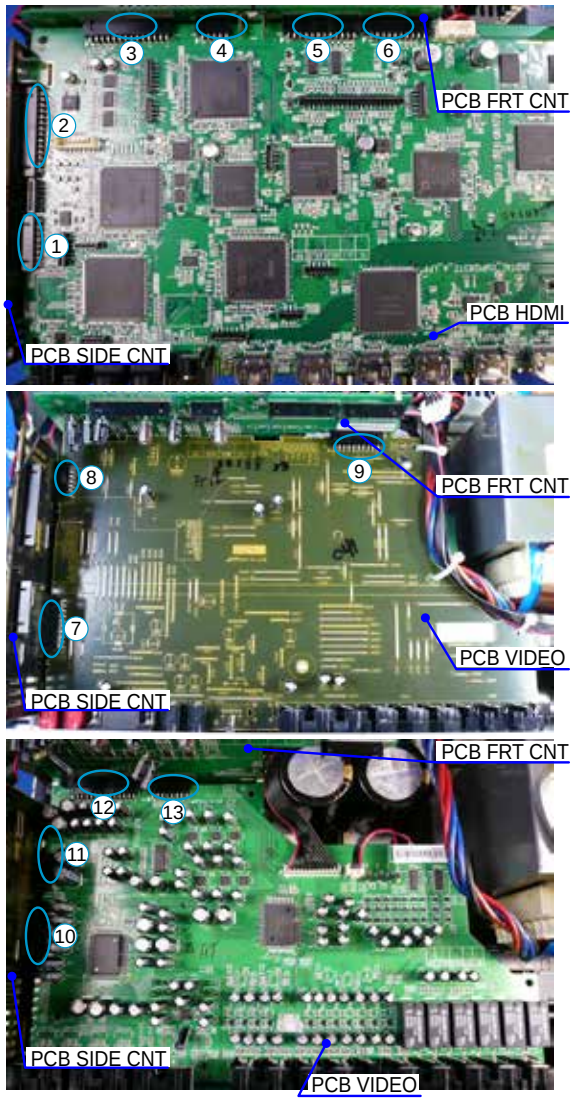


(3) Remove the DIGITAL PCB from the chassis and turn it over.
Place an insulation sheet larger than the PCB underneath the DIGITAL PCB.

※ Connect the earth of the PCB to the chassis using an earth wire, etc.



(4) Connect the expansion cables.



Connection table of Board to Board

No.	Pin	Ref. No.	PCB		Ref. No.	PCB
①	15pin	CN27A	SIDE CNT	⟷	BN27A	DIGITAL
②	27pin	CN23A	SIDE CNT	⟷	BN23A	DIGITAL
③	27pin	CN24A	FRONT CNT	⟷	BN24A	DIGITAL
④	9pin	CN26A	FRONT CNT	⟷	BN26A	DIGITAL
⑤	23pin	CN25A	FRONT CNT	⟷	BN25A	DIGITAL
⑥	19pin	CN21A	FRONT CNT	⟷	BN21A	DIGITAL
⑦	19pin	CN27B	SIDE CNT	⟷	BN27B	VIDEO
⑧	13pin	CN28B	SIDE CNT	⟷	BN28B	VIDEO
⑨	19pin	CN21B	FRONT CNT	⟷	BN21B	VIDEO
⑩	21pin	CN23C	SIDE CNT	⟷	BN23C	VIDEO
⑪	13pin	CN64C	SIDE CNT	⟷	BN64C	INPUT
⑫	27pin	CN24C	FRONT CNT	⟷	BN24C	INPUT
⑬	15pin	CN26C	FRONT CNT	⟷	BN26C	INPUT

PROCEDURE AFTER REPLACING THE MICROPROCESSOR, ETC.

The procedure after replacing the u-COM (microprocessor), flash ROM, etc. is as follows.

PCB Name	Ref. No.	Description	Procedure after Replacement	Remark
DIGITAL	IC151	R5F56108VNFP	B	SOFTWARE:Main
DIGITAL	IC171	R5F5210ABDFP	B	SOFTWARE:Sub
DIGITAL	IC254/IC264/ IC273/IC283	MX25L1606EM2I-12G	B	SOFTWARE:DSP1 / 2 / 3 / 4 ROM
DIGITAL	IC404	MX25L12845EMI-10G	B	SOFTWARE:GUI ROM
DIGITAL	IC221	5M570ZF256C5N	B	SOFTWARE:AUDIO PLD
DIGITAL	IC421	EPM570F256C4N	B	SOFTWARE:VIDEO PLD

Procedure after Replacement

A : The software has been written. The software is not written at the time of replacement.
B : The software has been written. The software may need to be rewritten by version updates. Check the version.
C : The software has not been written. The software needs to be written after replacement.
See "**Firmware Update Procedure**" for information on writing the software.
D : The software has been written. Be sure to rewrite with the latest software for your service region.
See "**Firmware Update Procedure**" for information on writing the software.

FIRMWARE UPDATE PROCEDURE

1. Updating by USB

The latest firmware can be downloaded to a USB memory for updates.

1.1. Connecting to the USB Memory

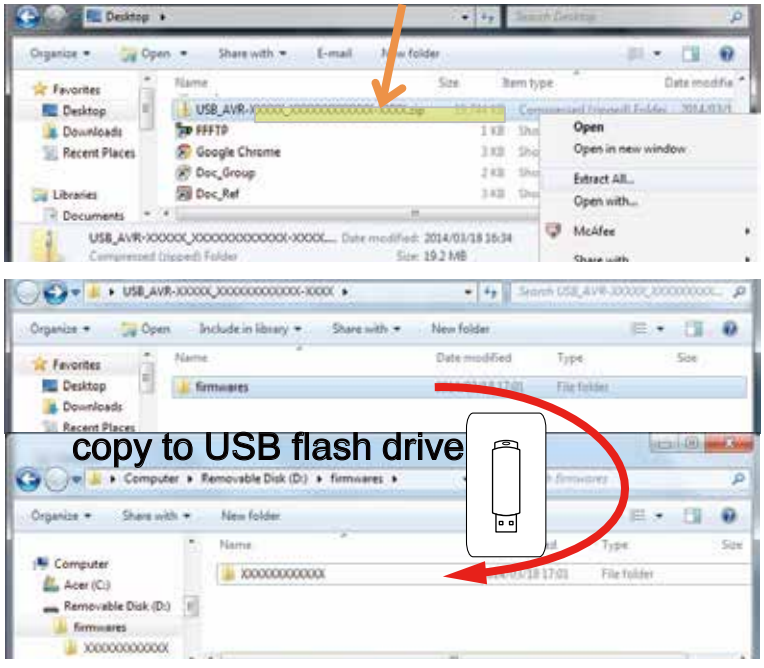
(1) Preparation

- USB format : Prepare a USB memory formatted in FAT16 or FAT32.
- Do not run the USB memory through a hub.
- Do not connect a computer to the USB port of this unit using a USB cable.
- Do not use an extension cable when connecting the USB unit.

1.2. Unzip Download File

Unzip the downloaded file on your computer.

AVR-XXXXXXX	USB_AVR-XXXXXXX_XXXXXXXXXXXX-XXXX.zip



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

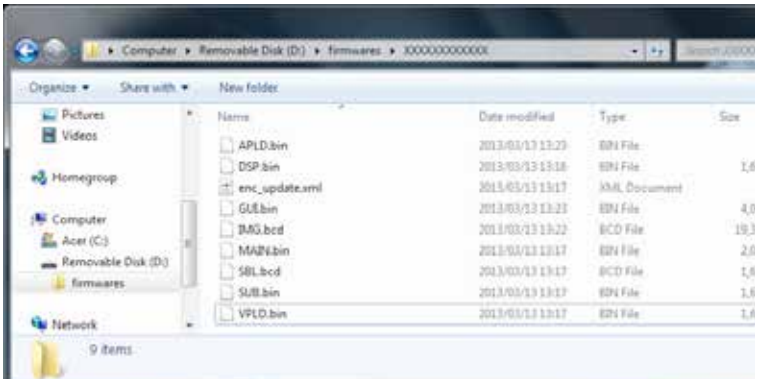
1.3. File structure on USB Memory

Copy the update files to the USB memory with the following structure:

USB memory root

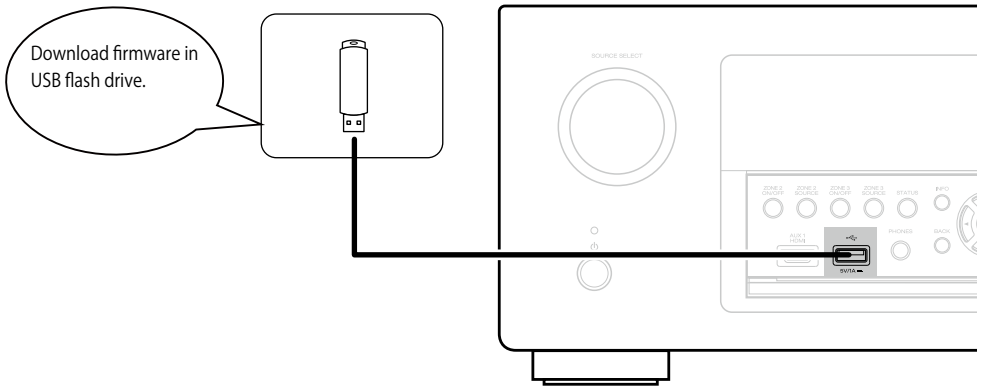
Model Name	Model Area	Product ID
AVR-X4100WE3	North America (E3)	000100700100
AVR-X4100WE2	Europe (E2)	000100700200
AVR-X4100WE1C	China (E1C)	000100700500
AVR-X4100WJP	Japan (JP)	000100700400

+ firmwares
  + 000100XXXXXX
    + APLD.bin
    + DSP1.bin
    + DSP2.bin
    + DSP3.bin
    + DSP4.bin
    + enc_update.xml
    + GUI.bin
    + IMG.bcd
    + MAIN.bin
    + SBL.bcd
    + SUB.bin
    + VPLD.bin



1.4. Insert the USB memory in the USB port.

NOTE：Remove the LAN cable from this unit when performing updates.



1.5. Start the update.

Hold down buttons "**STATUS**" and "**OPTION**" at the same time and press the power button to turn on the power.

1.6. Display during USB update

The following message appears on the display after around 30 seconds
Display

FLD	**L1**	*	F	I	R	M	W	A	R	E		U	P	D	A	T	E
	L2	U	S	B		U	p	d	a	t	e		S	t	a	r	t

1.7. Press the "ENTER" key on the remote control unit or this unit.

Then start Firmware Update.
Display

FLD	**L1**	P	l	e	a	s	e		w	a	i	t	.	.	.		
	L2	U	p	d	a	t	e	F	i	l	e	C	h	e	c	k	

1.8. The firmware update finishes.

The following message appears on the display:
Display

FLD	**L1**	F	i	r	m		U	p	d	a	t	e	▼			
	L2	U	p	d	a	t	e		C	o	m	p	l	e	t	e	

--- Precautions for Updates ---

- Never remove the USB memory before the update is finished.
- Never turn off the power before an update is completed.
- It takes around 1 hour to complete the update.

Once an update is started, normal operations cannot be performed until it is completed.
The GUI menu settings and image adjustment settings of this unit may be initialized.
Take note of your settings beforehand and reconfigure them after the update.

1.9 Forced USB All Device Write Mode

1.9.1. Actions

Mode used when this unit cannot be recovered.
Forcibly switches this unit to USB update mode.

1.9.2. Operations

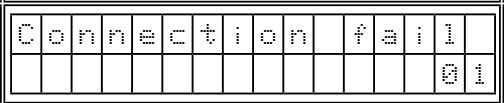
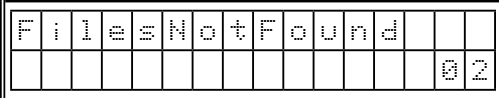
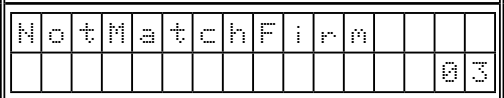
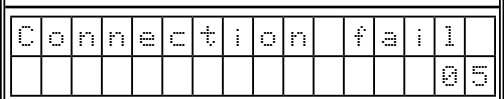
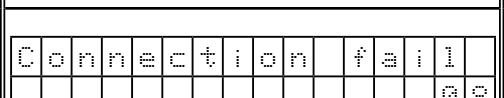
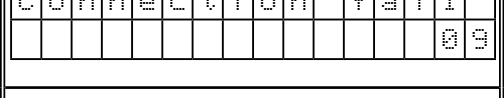
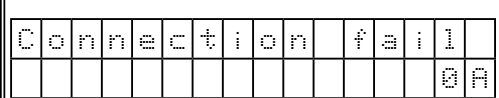
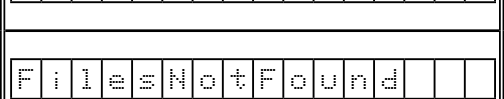
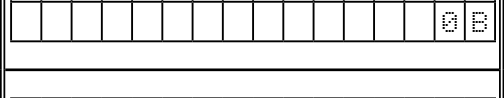
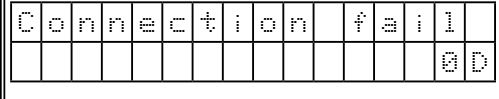
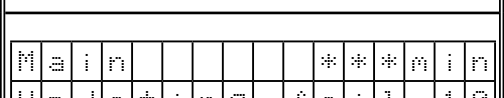
Press the "**STATUS**" and "**OPTION**" buttons simultaneously while inserting the AC plug to turn the power on.

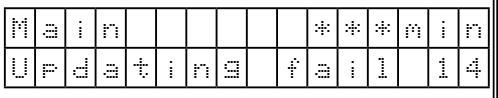
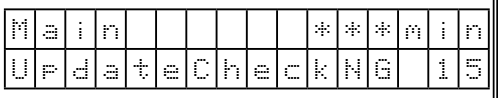
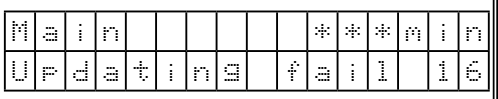
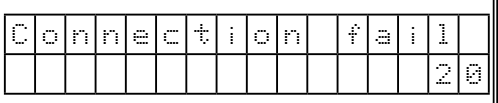
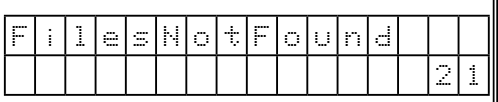
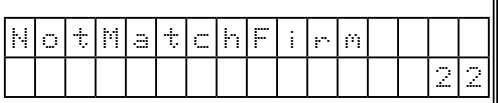
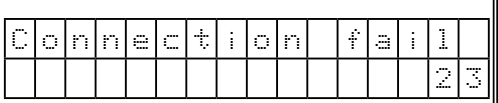
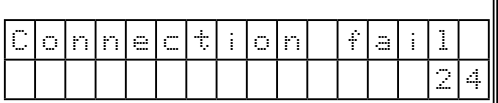
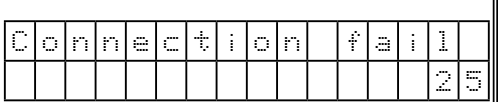
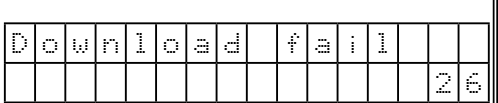
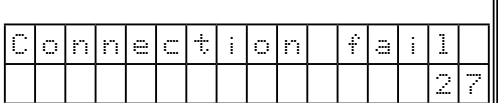
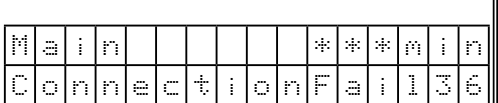
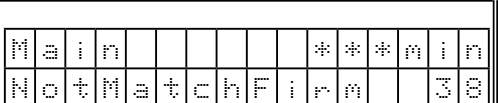
1.9.2. The firmware update finishes.

The update after the restart, all devices will be updated.

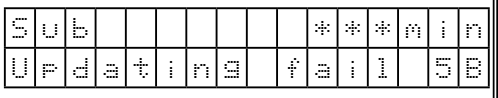
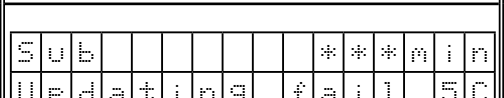
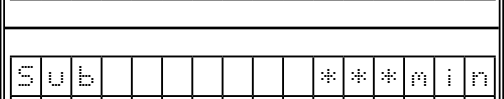
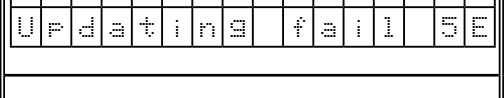
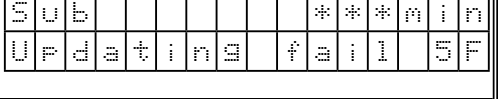
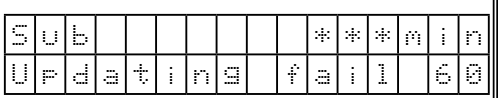
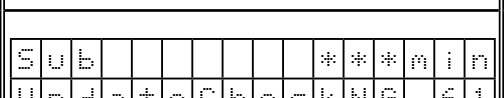
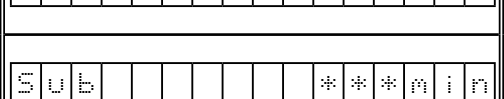
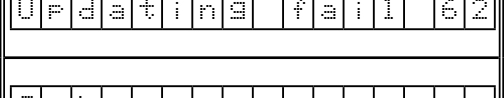
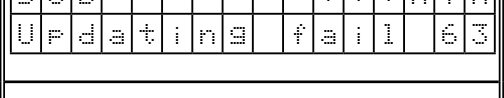
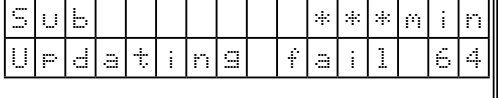
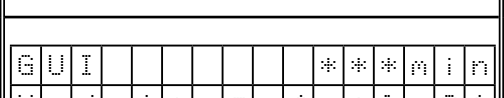
1.10.About the error code

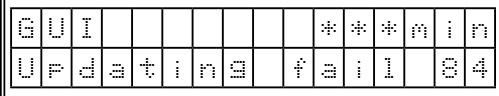
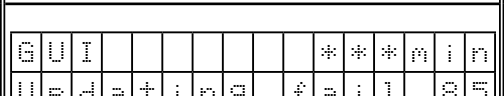
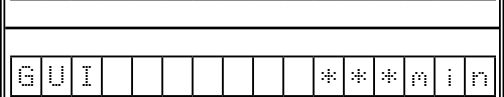
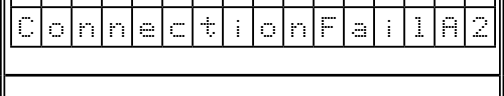
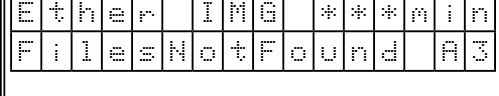
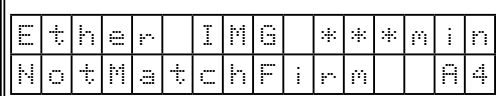
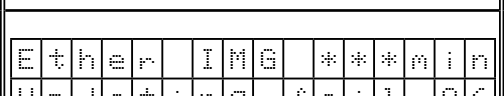
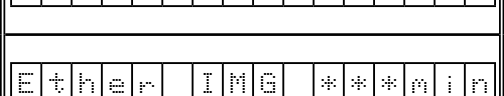
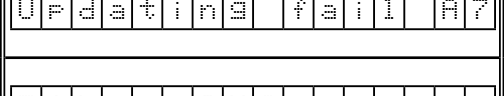
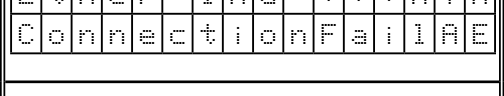
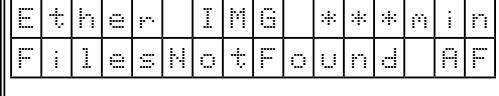
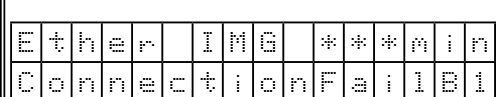
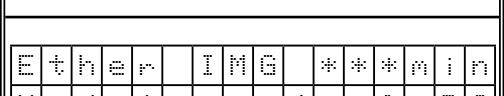
See the table below for error codes and details of faults when the firmware is updated through USB memory.

Error Code	USB Update Error Display	Details of Error code	Coping strategies
01		Unable to detect USB.	Disconnect and connect the USB memory.
02		No FirmwareFile in USB.	Make sure that the FirmwareFile is in the USB memory.
03		Firmware File in USB for unsupported Model name/area.	Check the supported Model name/area for the Firmware File.
04		Failed to obtain entire Firmware information.	Start the USB Update again.
05		Time Out while obtaining entire Firmware information.	Start the USB Update again.
08		Error notification received while requesting Firmware Info.	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 operation" button for five seconds.
09		Time Out while obtaining Firmware information.	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 operation" button for five seconds.
0A		Unable to detect USB for Firmware Download.	Disconnect and connect the USB memory.
0B		No Firmware File for Firmware Download.	Disconnect and connect the USB memory.
0D		Received value with invalid Package Version.	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 operation" button for five seconds.
10		No Update Packet received from CX870 / CY920 (Time Out).	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 operation" button for five seconds.
11		Abnormal data in Update Packet received from CX870 / CY920 (CRCError).	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 operation" button for five seconds.
12		Abnormal data in Update Packet received from CX870 / CY920 (PacketNoError).	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 operation" button for five seconds.
13		Block Erase failed before rewriting Main.	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 operation" button for five seconds.

Error Code	USB Update Error Display	Details of Error code	Coping strategies
14		Block Write failed while rewriting Main.	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 operation" button for five seconds.
15		Error in Verify after rewriting Main (Check Sum Error).	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 operation" button for five seconds.
16		Setup failure of the transfer method of XModem.	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 operation" button for five seconds.
20		Unable to detect USB after SBL Mode.	Disconnect and connect the USB memory.
21		No Firmware File in USB after SBL Mode.	Disconnect and connect the USB memory.
22		Firmware File in USB after SBL Mode for unsupported Model name/area.	Check the supported Model name/area for the Firmware File.
23		Failed to obtain entire Firmware information after SBL Mode.	Disconnect and connect the USB memory.
24		Time Out while obtaining entire Firmware information after SBL Mode.	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 operation" button for five seconds.
25		Failed to transit to SBL Mode.	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 operation" button for five seconds.
26		Time Out in Download (writing to SDRAM) for Firmware Download.	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 operation" button for five seconds.
27		Failed to write to EEPROM after SBL Mode.	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 operation" button for five seconds.
36		Unable to detect USB.	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
37		No Firmware File in USB.	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
38		Firmware File in USB for unsupported Model name/area.	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.

Error Code	USB Update Error Display	Details of Error code	Coping strategies
39	Main ***min ConnectionFail39	Time Out in USB Check.	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 operation" button for five seconds.
3A	Main ***min ConnectionFail3A	Unable to detect USB for Firmware Download.	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 operation" button for five seconds.
3B	Main ***min FilesNotFound 3B	No Firmware File for Firmware Download.	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 operation" button for five seconds.
3C	Main ***min Updating fail 3C	Error notification received while requesting Firmware Info.	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 operation" button for five seconds.
3D	Main ***min Updating fail 3D	Time Out while obtaining Firmware information.	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 operation" button for five seconds.
3F	Main ***min ConnectionFail3F	Failed to transit to SBL Mode.	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 operation" button for five seconds.
50	Sub ***min ConnectionFail50	Unable to detect USB.	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
51	Sub ***min ConnectionFail51	No Firmware File in USB.	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
52	Sub ***min NotMatchFirm 52	Firmware File in USB for unsupported Model name/area.	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
54	Sub ***min Updating fail 54	Error notification received while requesting Firmware Info.	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 operation" button for five seconds.
55	Sub ***min Updating fail 55	Time Out while obtaining Firmware information.	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 operation" button for five seconds.
56	Sub ***min ConnectionFail56	Unable to detect USB for Firmware Download.	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 operation" button for five seconds.
57	Sub ***min FilesNotFound 57	No Firmware File for Firmware Download.	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 operation" button for five seconds.
5A	Sub ***min ConnectionFail5A	Invalid DeviceID in response or no response from Sub for C command.	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 operation" button for five seconds.

Error Code	USB Update Error Display	Details of Error code	Coping strategies
5B		NACK received in response or no response from Sub for L command.	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 operation" button for five seconds.
5C		No Update Packet received from CX870 / CY920 (Time Out).	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 operation" button for five seconds.
5D		Abnormal data in Update Packet received from CX870 / CY920 (CRCError).	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 operation" button for five seconds.
5E		Abnormal data in Update Packet received from CX870 / CY920 (PacketNoError).	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 operation" button for five seconds.
5F		Setup failure of the transfer method of XModem.	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 operation" button for five seconds.
60		NACK received in response or no response from Sub for P command.	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 operation" button for five seconds.
61		Mismatched Check Sum in response or no response from Sub for I command.	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 operation" button for five seconds.
62		Failed to start up Sub in Power On sequence during Update.	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 operation" button for five seconds.
63		Failed to transit to Application Mode.	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 operation" button for five seconds.
64		Failed to transit to Application Mode.	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 operation" button for five seconds.
80		Write Enable Latch Bit not set in Read after issuing WREN command.	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 operation" button for five seconds.
81		Block Erase failed in Read after issuing BE command.	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 operation" button for five seconds.
82		No Update Packet received from CX870 / CY920 (Time Out).	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 operation" button for five seconds.
83		Abnormal data in Update Packet received from CX870 / CY920 (CRCError).	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 operation" button for five seconds.

Error Code	USB Update Error Display	Details of Error code	Coping strategies
84		Abnormal data in Update Packet received from CX870 / CY920 (PacketNoError).	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 operation" button for five seconds.
85		Abnormal data in Update Packet received from CX870 / CY920 (Data Length/Data No).	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 operation" button for five seconds.
86		Mismatched Check Sum in Check Sum comparison after rewriting.	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 operation" button for five seconds.
A2		Unable to detect USB.	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
A3		No Firmware File in USB.	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
A4		Firmware File in USB for unsupported Model name/area.	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
A6		Error notification received while requesting Firmware Info.	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 operation" button for five seconds.
A7		Time Out while obtaining Firmware information.	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 operation" button for five seconds.
AE		Unable to detect USB for Firmware Download.	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 operation" button for five seconds.
AF		No Firmware File for Firmware Download.	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 operation" button for five seconds.
B1		Time Out in Download (writing to SDRAM) for Firmware Download.	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 operation" button for five seconds.
B2		Error notification received after rewriting CX870 / CY920 Firm.	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
B3		Error in Firmware Update (Time Out).	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 operation" button for five seconds.
B4		Failed to transit to Application Mode.	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 operation" button for five seconds.

Error Code	USB Update Error Display	Details of Error code	Coping strategies
B5	Ether IMG ***min Updating fail B5	Failed to transit to Application Mode.	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 operation" button for five seconds.

---Check the firmware version after updating.---
After updating the firmware, check the version. See "**1. Version Display Mode**" (19 page).

1.11. Device display during firmware update

Display of target device during firmware update.

Target device	USB Update Display	Error code when an error occurs
Main CPU	L1 Main ***min L2 Updating ***%	10 - 16 36 - 3D 3F
Sub	L1 Sub ***min L2 Updating ***%	50 - 52 54 - 57 5A - 64
Audio PLD	L1 APLD ***min L2 Updating ***%	50 - 52 54 - 57 5A - 64
VIDEO PLD	L1 VPLD ***min L2 Updating ***%	50 - 52 54 - 57 5A - 64
DSP	L1 DSP1 ***min L2 Updating ***% L1 DSP2 ***min L1 DSP3 ***min L1 DSP4 ***min	50 - 52 54 - 57 5A - 64
GUI Serial Flash	L1 GUI ***min L2 Updating ***%	50 - 52 54 - 57 5A 62 - 64 80 - 86
CX870 / CY920 second Boot Loader	L1 Ether SBL ***min L2 Updating ***%	A2 - A4 A6 - A7 AE - AF B1 - B5
CX870 / CY920 Image	L1 Ether IMG ***min L2 Updating ***%	A2 - A4 A6 - A7 AE - AF B1 - B5
CX870 / CY920 I Image (Emergency Mode)	L1 Please wait... L2 Update retry	–

Checking the Firmware Version After an Update

After updating the firmware, check the version. See "**1. Version Display Mode**" (19 page).

2. Updating by DPMS

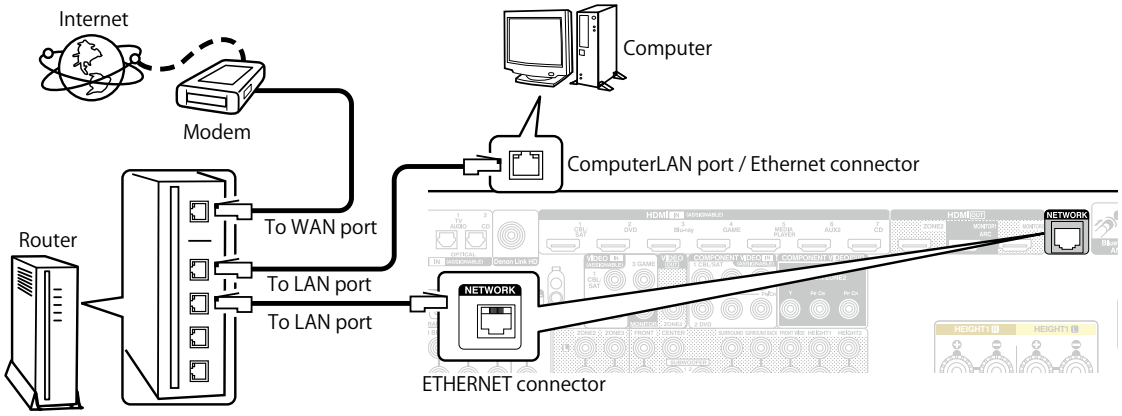
Download the latest firmware from the internet and update the firmware.

2.1. Network Connection

(1) System Requirements

- A broadband internet connection
- Modem
- Router
- Ethernet cable (CAT-5 or greater recommended)

(2) Settings



2.2. Check and update the firmware

Check whether new firmware is available. It is also possible to check approximately how long the update will take.

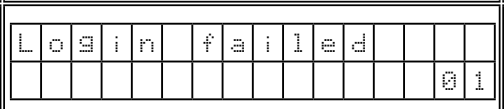
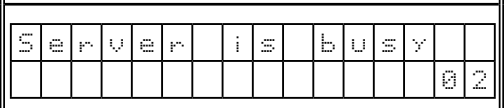
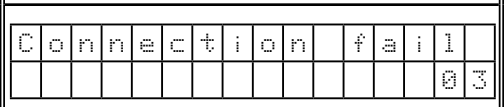
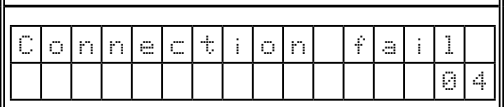
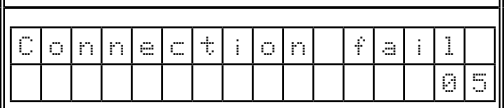
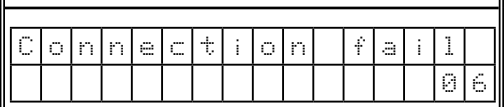
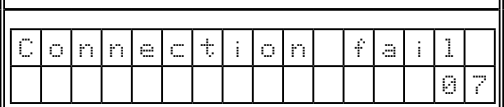
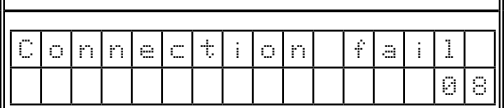
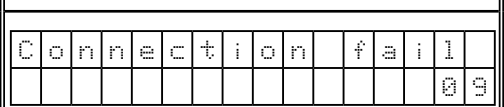
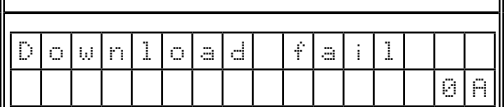
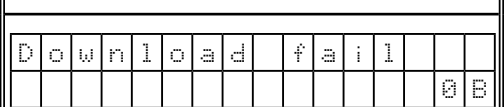
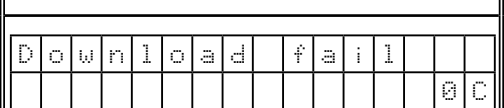
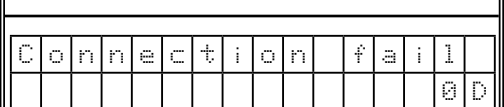
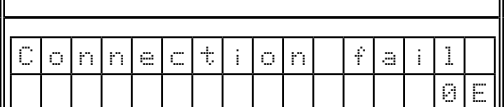
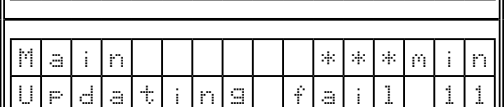
(1) Press the button "**SETUP**" on the remote control to display the GUI menu.
(2) Press the cursor button to select "**General**" → "**Firmware**" → "**Update**" → "**Check Update**".
(3) Press the button "**ENTER**".
  • The latest firmware version uploaded to our website is displayed.
  • Proceed to (4) if new firmware is available on our website.
  • If the latest firmware is already installed, press the button "**SETUP**" to exit the menu.
(4) Select "**Start**" using the cursor buttons and then press "**ENTER**".
  • The power display lights in red and the GUI screen display disappears during the update.
  The remaining time of the update is shown on the display of the unit.
  • The normal status resumes after the update is completed.

--- Precautions for Updates ---

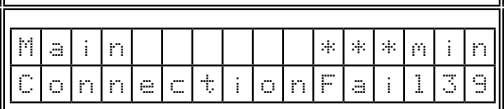
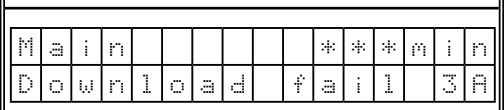
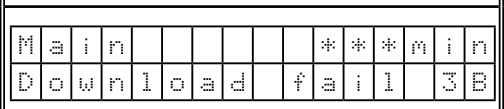
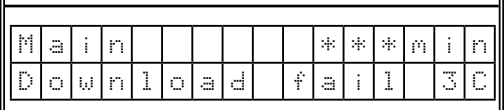
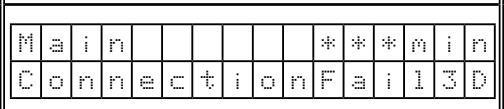
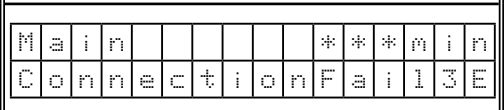
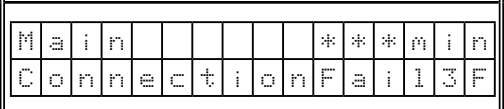
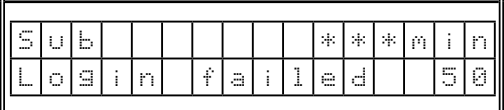
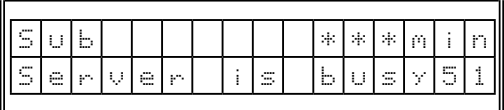
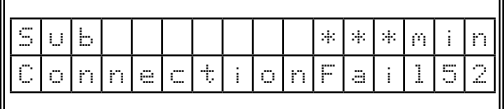
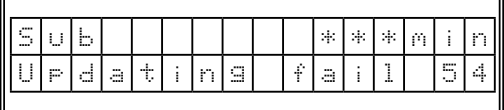
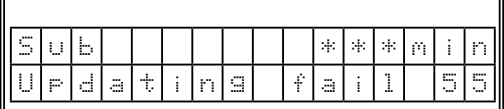
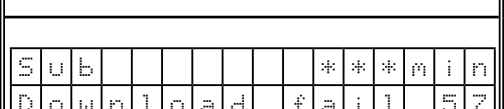
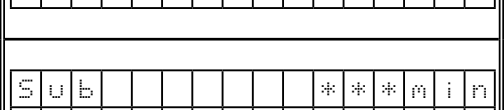
• The environment and settings must allow connection to broadband Internet for updates.
• Never turn off the power before an update is completed.
• It takes around 1 hour to complete the update.
Once an update is started, normal operations cannot be performed until it is completed.
The GUI menu settings and image adjustment settings of this unit may be initialized.
Take note of your settings beforehand and reconfigure them after the update.

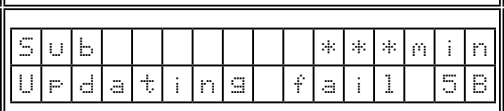
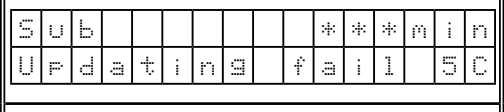
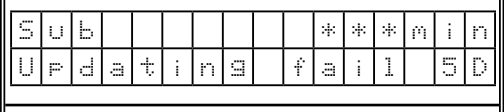
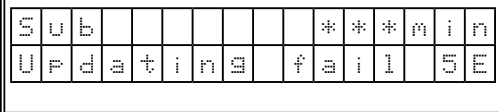
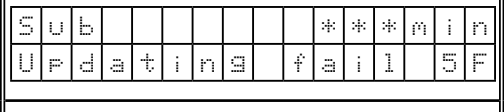
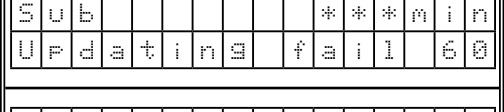
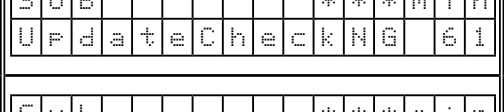
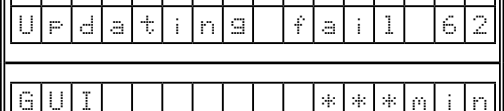
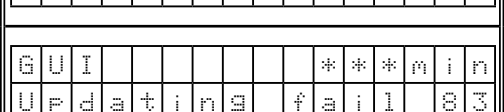
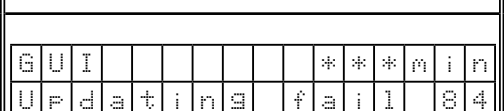
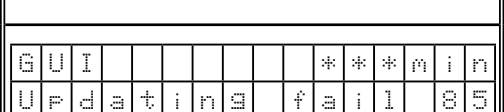
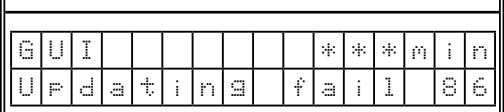
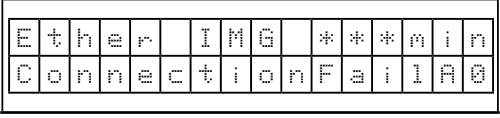
2.3. About the error code

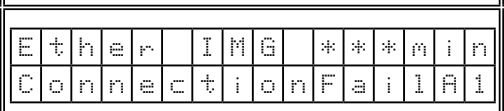
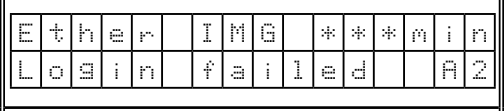
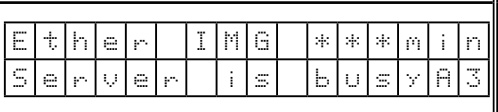
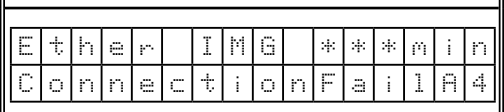
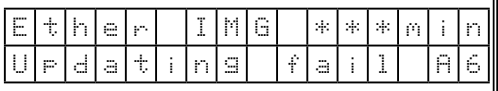
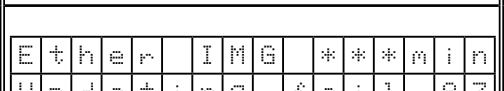
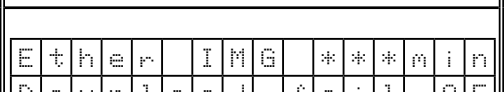
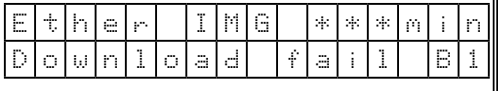
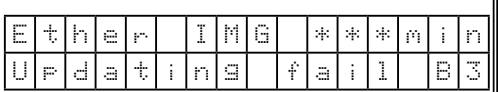
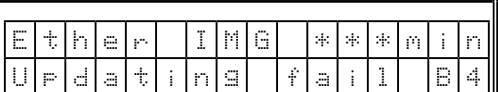
See the following table for details on the error code, details of the error code, display and coping strategies when updating the firmware from DPMS. (Denon Product Management Server)

Error Code	DPMS Update Error Display	Details of Error code	Coping strategies
01		Failed to log in to DPMS.	Initialize the unit and try updating again. Update in an environment where there is a small network load.
02		Line etc. is congested when logging in to DPMS.	Update in an environment where there is a small network load.
03		Connection to DPMS failed.	Check the network connection. Update in an environment where there is a small network load.
04		Failed to obtain entire Firmware information.	Check the network connection. Update in an environment where there is a small network load.
05		Time Out while obtaining entire Firmware information.	Check the network connection. Update in an environment where there is a small network load.
06		Failed to obtain individual Firmware information.	Check the network connection. Update in an environment where there is a small network load.
07		Time Out while obtaining individual Firmware information.	Check the network connection. Update in an environment where there is a small network load.
08		Error notification received while requesting Firmware Info.	Check the network connection. Update in an environment where there is a small network load.
09		Time Out while obtaining Firmware information.	Check the network connection. Update in an environment where there is a small network load.
0A		Error(NG) notification received while requesting Firmware Download.	Check the network connection. Update in an environment where there is a small network load.
0B		Error(Server Busy) notification received while requesting Firmware Download.	Check the network connection. Update in an environment where there is a small network load.
0C		Error(Connect failure) notification received while requesting Firmware Download.	Check the network connection. Update in an environment where there is a small network load.
0D		Received value with invalid Package Version.	Check the network connection. Update in an environment where there is a small network load.
0E		Connection to DPMS failed. (Cannot get NTP)	Check the network connection. Update in an environment where there is a small network load.
10		No Update Packet received from CX870 / CY920 (Time Out).	Turn on the power again. Update will start automatically.
11		Abnormal data in Update Packet received from CX870 / CY920 (CRCError).	Turn on the power again. Update will start automatically.

Error Code	DPMS Update Error Display	Details of Error code	Coping strategies
12	Main ***min Updating fail 12	Abnormal data in Update Packet received from CX870 (Packet No Error).	Turn on the power again. Update will start automatically.
13	Main ***min Erase fail 13	Block Erase failed before rewriting Main.	Turn on the power again. Update will start automatically.
14	Main ***min Updating fail 14	Block Write failed while rewriting Main.	Turn on the power again. Update will start automatically.
15	Main ***min UpdateCheckNG 15	Error in Verify after rewriting Main (Check Sum Error).	Turn on the power again. Update will start automatically.
16	Main ***min Updating fail 16	Setup failure of the transfer method of XModem.	Check the network connection. Update in an environment where there is a small network load.
20	Connection fail 20	SBL Mode after IP Address acquisition failure (AutoIP).	Check the network connection. Update in an environment where there is a small network load.
21	Connection fail 21	SBL Mode after IP Address acquisition failure (Time Out).	Check the network connection. Update in an environment where there is a small network load.
22	Login failed 22	Login incorrect notification SBL Mode after DPMS connection.	Initialize the unit and try updating again. Update in an environment where there is a small network load.
23	Server is busy 23	Server congestion notification SBL Mode after DPMS connection.	Update in an environment where there is a small network load.
24	Connection fail 24	Connection failure notification SBL Mode after DPMS connection.	Check the network connection. Update in an environment where there is a small network load.
25	Connection fail 25	Failed to transit to SBL Mode.	Initialize the unit and try updating again.
26	Download fail 26	Error in Firmware Download (Time Out).	Check the network connection. Update in an environment where there is a small network load.
27	Connection fail 27	Failed to write to EEPROM after SBL Mode.	Initialize the unit and try updating again.
36	Main ***min Login failed 36	Login incorrect notification DPMS connection.	Update in an environment where there is a small network load.
37	Main ***min Server is busy 37	Server congestion notification by DPMS connection.	Update in an environment where there is a small network load.
38	Main ***min ConnectionFail38	Connection failure notification DPMS connection.	Check the network connection. Update in an environment where there is a small network load.

Error Code	DPMS Update Error Display	Details of Error code	Coping strategies
39		Connect Time Out by DPMS connection.	Check the network connection. Update in an environment where there is a small network load.
3A		Error(NG) notification received while requesting Firmware Download.	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
3B		Error(Server Busy) notification received while requesting Firmware Download.	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
3C		Error(Connect failure) notification received while requesting Firmware Download.	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
3D		SBL Mode after IP Address acquisition failure (AutoIP).	Check the network connection. Update in an environment where there is a small network load.
3E		SBL Mode after IP Address acquisition failure (Time Out).	Check the network connection. Update in an environment where there is a small network load.
3F		Failed to transit to SBL Mode.	Check the network connection. Update in an environment where there is a small network load.
50		Login incorrect notification DPMS connection.	Update in an environment where there is a small network load.
51		Server congestion notification by DPMS connection.	Update in an environment where there is a small network load.
52		Connection failure notification DPMS connection.	Check the network connection. Update in an environment where there is a small network load.
54		Error notification received while requesting Firmware Info.	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
55		Time Out while obtaining Firmware information.	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
56		Error(NG) notification received while requesting Firmware Download.	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
57		Error(Server Busy) notification received while requesting Firmware Download.	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
58		Error(Connect failure) notification received while requesting Firmware Download.	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
5A		Invalid DeviceID in response or no response from Sub for C command.	Turn on the power again. Update will start automatically.

Error Code	DPMS Update Error Display	Details of Error code	Coping strategies
5B		NACK received in response or no response from Sub for L command.	Turn on the power again. Update will start automatically.
5C		No Update Packet received from CX870 / CY920 (Time Out).	Turn on the power again. Update will start automatically.
5D		Abnormal data in Update Packet received from CX870 / CY920 (CRCError).	Turn on the power again. Update will start automatically.
5E		Abnormal data in Update Packet received from CX870 / CY920 (PacketNoError).	Turn on the power again. Update will start automatically.
5F		Setup failure of the transfer method of XModem.	Turn on the power again. Update will start automatically.
60		NACK received in response or no response from Sub for "P" command.	Turn on the power again. Update will start automatically.
61		Mismatched Check Sum in response or no response from Sub for I command.	Turn on the power again. Update will start automatically.
62		Failed to start up Sub in Power On sequence during Update.	Turn on the power again. Update will start automatically.
80		Write Enable Latch Bit not set in Read after issuing WREN command.	Turn on the power again. Update will start automatically.
81		Block Erase failed in Read after issuing BE command.	Turn on the power again. Update will start automatically.
82		No Update Packet received from CX870 / CY920 (Time Out).	Turn on the power again. Update will start automatically.
83		Abnormal data in Update Packet received from CX870 / CY920 (CRCError).	Turn on the power again. Update will start automatically.
84		Abnormal data in Update Packet received from CX870 / CY920 (PacketNoError).	Turn on the power again. Update will start automatically.
85		Setup failure of the transfer method of XModem.	Turn on the power again. Update will start automatically.
86		Mismatched Check Sum in Check Sum comparison after rewriting.	Turn on the power again. Update will start automatically.
A0		IP Address acquisition failure (AutoIP).	Check the network connection. Update in an environment where there is a small network load.

Error Code	DPMS Update Error Display	Details of Error code	Coping strategies
A1		IP Address acquisition failure (Time Out).	Check the network connection. Update in an environment where there is a small network load.
A2		Login incorrect notification DPMS connection.	Check the network connection. Update in an environment where there is a small network load.
A3		Server congestion notification by DPMS connection.	Check the network connection. Update in an environment where there is a small network load.
A4		Connection failure notification DPMS connection.	Check the network connection. Update in an environment where there is a small network load.
A6		Error notification received while requesting Firmware Info.	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
A7		Time Out while obtaining Firmware information.	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
AE		Error(NG) notification received while requesting Firmware Download.	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
AF		Error(Server Busy) notification received while requesting Firmware Download.	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
B0		Error(Connect failure) notification received while requesting Firmware Download.	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
B1		Error in Firmware Download (Time Out).	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
B2		Error notification received after rewriting CX870 / CY920 Firm.	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
B3		Error in Firmware Update (Time Out).	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
B4		Failed to transit to Application Mode.	Initialize the unit and try updating again.
B5		Failed to transit to Application Mode.	Initialize the unit and try updating again.

Device display during firmware update

Display of target device during firmware update.

Target device	DPMS Update Display	Error code when an error occurs
Main CPU	L1 Main ***min L2 Updating ***%	10 - 16 36 - 3F
Sub	L1 Sub ***min L2 Updating ***%	50 - 52 54 - 58 5A - 62
Audio PLD	L1 APLD ***min L2 Updating ***%	50 - 52 54 - 58 5A - 62
VIDEO PLD	L1 VPLD ***min L2 Updating ***%	50 - 52 54 - 58 5A - 62
DSP	L1 DSP1 ***min L2 Updating ***% L1 DSP2 ***min L1 DSP3 ***min L1 DSP4 ***min	50 - 52 54 - 58 5A - 62
GUI Serial Flash	L1 GUI ***min L2 Updating ***%	50 - 52 54 - 58 5A 62 80 - 86
CX870 / CY920 second Boot Loader	L1 Ether SBL ***min L2 Updating ***%	A0 - A4 A6 - A7 AE - B5
CX870 / CY920 Image	L1 Ether IMG ***min L2 Updating ***%	A0 - A4 A6 - A7 AE - B5
CX870 / CY920 I Image (Emergency Mode)	L1 Please wait... L2 Update retry	–

Checking the Firmware Version After an Update

After updating the firmware, check the version.

See "**1. Version Display Mode**" (19 page).

ADJUSTMENT

Adjusting Idling Current

1. Preparation

(1) Prepare a DV voltmeter.
(2) Place the unit in normal usage conditions, away from highly ventilated areas such as next to an air conditioning machine or electric fan.
The set requires an ambient temperature of 15℃ ~30℃ and standard humidity.
(3) Settings of This Unit
• POWER (Power source switch) STANDBY
• SPEAKER (Speaker terminal) No load
(Do not connect equipment such as speakers or dummy resistors.)

2. Adjustment Procedure

(1) Remove the top cover and turn VR714, VR724, VR734, VR744, VR754, VR764, VR774 of the AMP PCB as far anticlockwise(↺) as possible.
(2) Connect the DC Voltmeter test points.

FRONT-Lch	: CN715
FRONT-Rch	: CN725
CENTER ch	: CN735
SURROUND-Lch	: CN745
SURROUND-Rch	: CN755
SURROUND-BACK Lch	: CN765
SURROUND-BACK Rch	: CN775

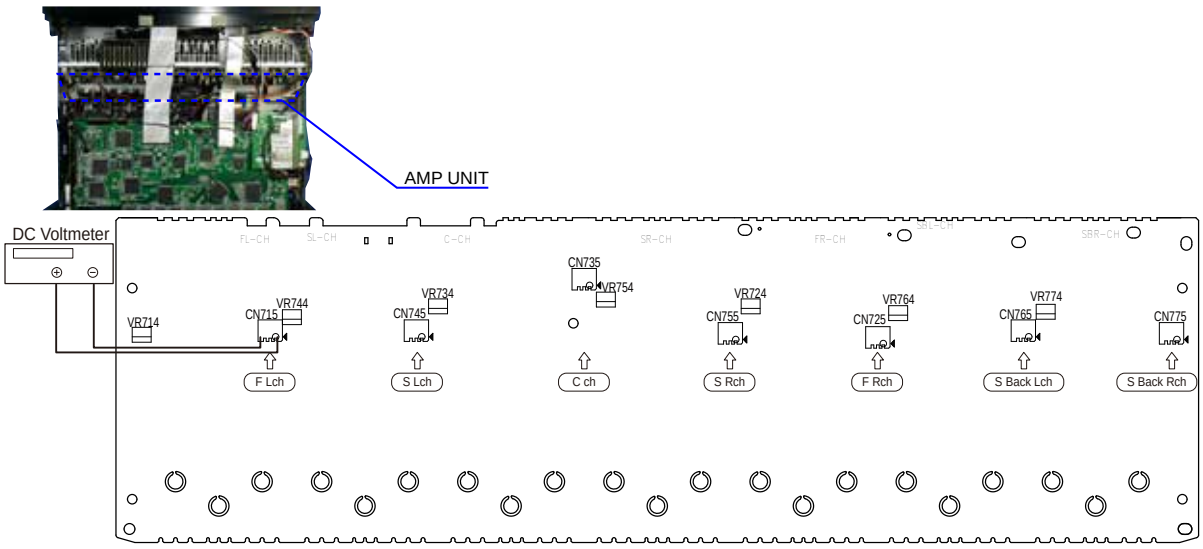
(3) Connect the power cord to an outlet. Next, press the power button to turn on the power.
(4) Set this unit as follows.

MASTER VOLUME	: "---" anticlockwise (↺ min.)
SPEAKER (Speaker terminal)	: No load

(Do not connect equipment such as speakers or dummy resistors.)

MODE	: MCH STEREO
FUNCTION	: DVD

(5) Turn VR714 clockwise (↻) and adjust the voltage of the test point to "**6.5mV ± 0.5mV DC**" within 2 minutes.
(6) 10 minutes after the preliminary adjustment, turn VR714 and set the voltage as "**8.0mV ± 0.5mV DC**".
(7) Adjust the variable resistance of each channel using the same method.



SURROUND MODES AND PARAMETERS

Sound modes and channel output

○ This indicates the audio output channels or surround parameters that can be set.
◎ This indicates the audio output channels. The output channels depend on the settings of “Speaker Config.” (☞ p. 217).

Sound mode	Channel output													
	Front L/R	Center	Surround L/R	Surround back L/R	Front wide L/R	Front height L/R	Top Front L/R	Top Middle L/R	Top Rear L/R	Rear Height L/R	Front Dolby Enabled L/R	Surround Dolby Enabled L/R	Back Dolby Enabled L/R	Subwoofer
Direct/Pure Direct (2-channel)	○													◎*7
Direct/Pure Direct (Multi-channel)	○	◎	◎	◎*3	◎*3	◎*3								◎
DSD Direct (2-channel)	○													◎*7
DSD Direct (Multi-channel)	○	◎	◎											◎
Stereo	○													◎
Multi Ch In	○	◎	◎	◎*3										◎
Dolby Surround *1	○	◎	◎	◎*4		◎	◎	◎	◎	◎	◎	◎	◎	◎
DTS Neo:X *2	○	◎	◎	◎*5	◎*5	◎*5								◎
Audyssey DSX®	○	◎	◎		◎*6	◎*6								◎
Dolby Digital	○	◎	◎											◎
Dolby Digital Plus	○	◎	◎	◎*3	◎*3	◎*3								◎
Dolby TrueHD	○	◎	◎	◎*3	◎*3	◎*3								◎
Dolby Atmos	○	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎
DTS Surround	○	◎	◎	◎										◎
DTS 96/24	○	◎	◎	◎										◎
DTS-HD	○	◎	◎	◎*3	◎*3	◎*3								◎
DTS Express	○	◎	◎	◎										◎
Multi Ch Stereo	○	◎	◎	◎*5	◎*5	◎*5	◎*5	◎*5	◎*5	◎*5				◎
Rock Arena	○	◎	◎	◎*5	◎*5	◎*5	◎*5	◎*5	◎*5	◎*5				◎
Jazz Club	○	◎	◎	◎*5	◎*5	◎*5	◎*5	◎*5	◎*5	◎*5				◎
Mono Movie	○	◎	◎	◎*5	◎*5	◎*5	◎*5	◎*5	◎*5	◎*5				◎
Video Game	○	◎	◎	◎*5	◎*5	◎*5	◎*5	◎*5	◎*5	◎*5				◎
Matrix	○	◎	◎	◎*5	◎*5	◎*5	◎*5	◎*5	◎*5	◎*5				◎
Virtual	○													◎

*1 The applicable sound mode includes “Dolby Surround” and sound modes that have “+Dolby Surround” in the sound mode name.
*2 The applicable sound mode includes “DTS Neo:X” and sound modes that have “+Neo:X” in the sound mode name.
*3 A signal for each channel contained in an input signal is output as audio.
*4 Audio is not output when “Speaker Config.” - “Surr. Back” in the menu is set to “1 spkr”. (☞ p. 218)
*5 Audio is output from the speakers specified in the “Surround Parameter” – “Speaker Select” settings. (☞ p. 171)
*6 Audio is output from the speakers specified in the “Audyssey DSX®” settings. (☞ p. 177)
*7 Audio is output when “Subwoofer Mode” in the menu is set to “LFE+Main”. (☞ p. 224)

Sound modes and surround parameters

Sound mode	Surround Parameter									
	Dialog Level Adjust	Subwoofer Level Adjust	Cinema EQ	Loudness Management *1	Dynamic Compression *2	Low Frequency Effects*3	Delay Time	Effect Level	Room Size	Speaker Select
Direct/Pure Direct (2-channel) *4		○*5		○	○					
Direct/Pure Direct (Multi-channel) *4	○	○		○	○	○				
DSD Direct (2-channel)		○*5								
DSD Direct (Multi-channel) *4	○	○				○				
Stereo		○		○	○					
Multi Ch In	○	○	○			○				
Dolby Surround	○	○	○	○	○					
DTS Neo:X	○	○	○	○	○					○
Audyssey DSX®	○	○	○	○	○	○				
Dolby Digital	○	○	○	○	○	○				
Dolby Digital Plus	○	○	○	○	○	○				
Dolby TrueHD	○	○	○	○	○	○				
Dolby Atmos	○	○	○	○	○	○				
DTS Surround	○	○	○		○	○				
DTS 96/24	○	○	○			○				
DTS-HD	○	○	○			○				
DTS Express	○	○	○			○				
Multi Ch Stereo	○	○		○	○	○				○
Rock Arena	○	○		○	○	○		○		○
Jazz Club	○	○		○	○	○		○		○
Mono Movie	○	○		○	○	○		○		○
Video Game	○	○		○	○	○		○		○
Matrix	○	○		○	○	○	○			○
Virtual	○	○		○	○	○				

Sound mode	Surround Parameter		Tone*6	Audyssey					Restorer*9
	Center Spread	Center Gain		MultEQ® XT 32 *7	Dunamic EQ *8	Dunamic Volume *8	Audyssey LFC™*8	Audyssey DSX®	
Direct/Pure Direct (2-channel) *4									
Direct/Pure Direct (Multi-channel) *4									
DSD Direct (2-channel)									
DSD Direct (Multi-channel) *4									
Stereo			○	○	○	○	○		○
Multi Ch In			○	○	○	○	○	○	
Dolby Surround	○		○	○	○	○	○		○
DTS Neo:X		○	○	○	○	○	○		○
Audyssey DSX®			○	○	○	○	○	○	
Dolby Digital			○	○	○	○	○	○	
Dolby Digital Plus			○	○	○	○	○	○	
Dolby TrueHD			○	○	○	○	○	○	
Dolby Atmos			○	○	○	○	○		
DTS Surround			○	○	○	○	○	○	
DTS 96/24			○	○	○	○	○	○	
DTS-HD			○	○	○	○	○	○	
DTS Express			○	○	○	○	○	○	
Multi Ch Stereo			○	○	○	○	○		○
Rock Arena			○	○	○	○	○		○
Jazz Club			○	○	○	○	○		○
Mono Movie			○	○	○	○	○		○
Video Game			○	○	○	○	○		○
Matrix			○	○	○	○	○		○
Virtual			○	○	○	○	○		○

*1 This item can be selected when the Dolby Digital, Dolby Digital Plus, Dolby TrueHD or Dolby Atmos signal is played back.
*2 This item can be selected when the Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos or DTS is played back.
*3 This item can be selected when a Dolby Digital or DTS signal or DVD-Audio is played.
*4 During playback in Pure Direct mode, the surround parameters are the same as in Direct mode.
*5 This setting is available when “Subwoofer Mode” in the menu is set to “LFE+Main”. (☞ p. 224)
*6 This item cannot be set when “Dynamic EQ” is set to “On”. (☞ p. 175)
*7 This item cannot be set when Audyssey® Setup (Speaker Calibration) has not been performed.
*8 This item cannot be set when “MultEQ® XT32” in the menu is set to “Off”. (☞ p. 174)
*9 This item can be set when the input signal is analog, PCM 48 kHz or 44.1 kHz.

Types of input signals, and corresponding sound modes

● This indicates the default sound mode.
○ This indicates the selectable sound mode.

Sound mode		NOTE	2-channel signal				Multi-channel signal										
			Analog / PCM	Dolby Digital (+/HD)	DTS (-HD)	DSD (Super Audio CD)	PCM Multi	DTS-HD	DTS Express	DTS ES Dscrt6.1	DTS ES Mtrx6.1	DTS	Dolby Atmos	Dolby TrueHD	Dolby Digital Plus	Dolby Digital (EX)	DSD (Super Audio CD)
DTS Surround																	
	DTS-HD MSTR							●*3									
	DTS-HD HI RES							●*4									
	DTS ES Dscrt6.1	*1								●							
	DTS ES Mtrx6.1	*1									●						
	DTS Surround									○	○	●					
	DTS 96/24											●*5					
	DTS(-HD) + Dolby Surround							○	○	○	○	○					
	DTS Express								●								
	DTS(-HD) + Neo:X	*2						○	○	○	○	○					
	DTS Neo:X		○	○	●	○											
Dolby Surround																	
	Dolby Atmos												●				
	Dolby TrueHD												○*6	○			
	Dolby Digital+												○*7		○		
	Dolby(D+)(HD) + Dolby Surround													●	●	●	
	Dolby Digital															○	
	Dolby(D)(D+)(HD) + Neo:X	*2											○*8	○	○	○	
	Dolby Surround		○	●	○	○											

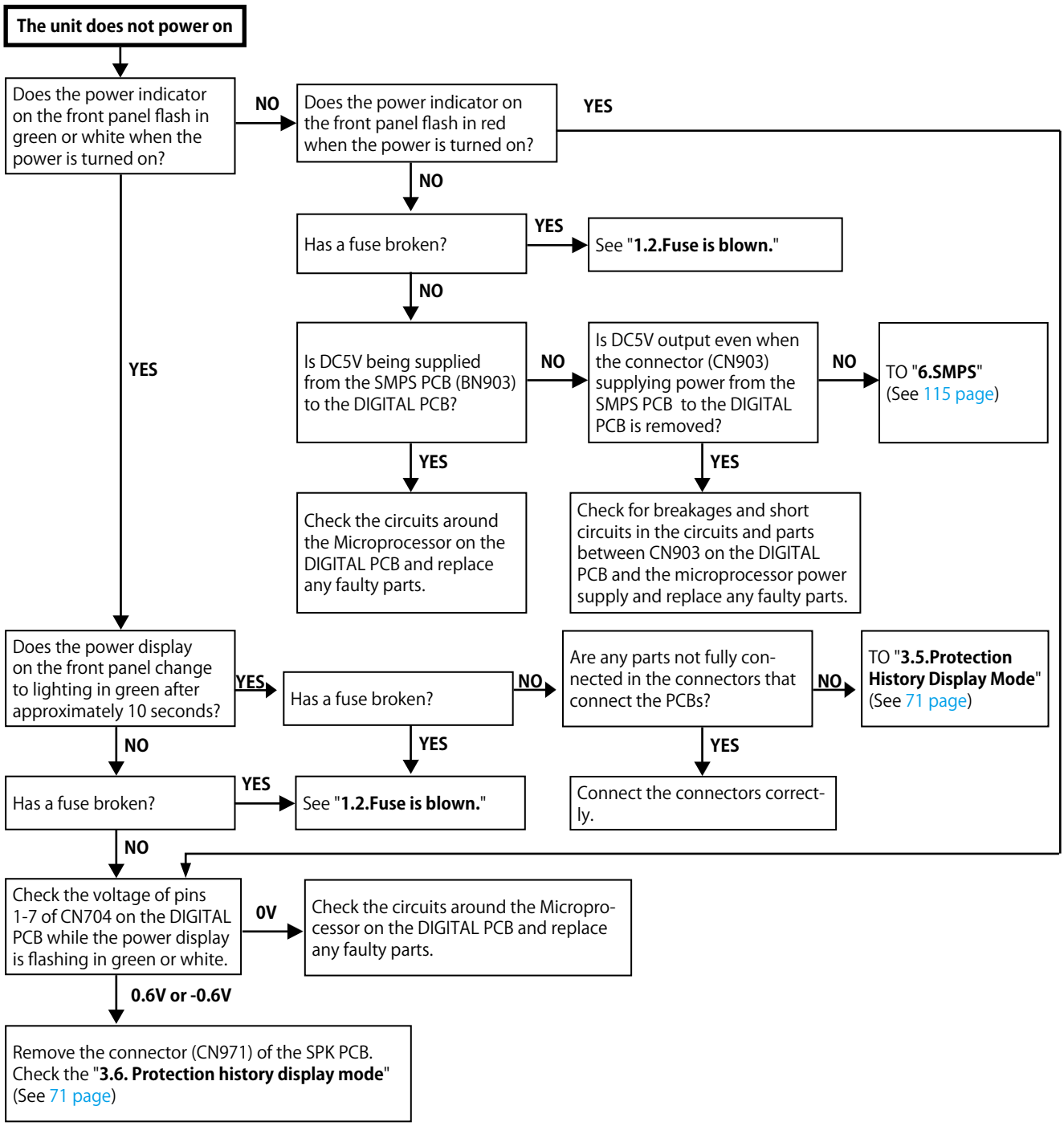
Sound mode		NOTE	2-channel signal				Multi-channel signal										
			Analog / PCM	Dolby Digital (+/HD)	DTS (-HD)	DSD (Super Audio CD)	PCM Multi	DTS-HD	DTS Express	DTS ES Dscrt6.1	DTS ES Mtrx6.1	DTS	Dolby Atmos	Dolby TrueHD	Dolby Digital Plus	Dolby Digital (EX)	DSD (Super Audio CD)
Multi Ch In																	
	Multi Ch In						●										●
	Multi Ch In + Dolby Surround						○										○
	Multi Ch In + Neo:X	*2					○										○
	Multi Ch In 7.1	*1					●*10										
Audyssey																	
	Audyssey DSX®						○	○	○	○	○	○	○*8	○	○	○	○
Direct																	
	Direct		○*9	○	○		○	○	○	○	○	○	○	○	○	○	
	DSD Direct					○											○
Pure Direct																	
	Pure Direct		○	○	○		○	○	○	○	○	○	○	○	○	○	
	DSD Pure Direct					○											○
Original sound mode																	
	Multi Ch Stereo		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Rock Arena		○	○	○	○	○	○	○	○	○	○	○*8	○	○	○	○
	Jazz Club		○	○	○	○	○	○	○	○	○	○	○*8	○	○	○	○
	Mono Movie		○	○	○	○	○	○	○	○	○	○	○*8	○	○	○	○
	Video Game		○	○	○	○	○	○	○	○	○	○	○*8	○	○	○	○
	Matrix		○	○	○	○	○	○	○	○	○	○	○*8	○	○	○	○
	Virtual		○	○	○	○	○	○	○	○	○	○	○*8	○	○	○	○
Stereo																	
	Stereo		●	○	○	●	○	○	○	○	○	○	○	○	○	○	○

*1 This item can be selected when surround back speakers are used.
*2 The “Cinema” mode, “Music” mode or “Game” mode can be selected. This item can be selected when using any of the surround back, front height or front wide speaker.
*3 This item can be selected when the input signal is DTS-HD Master Audio.
*4 This item can be selected when the input signal is DTS-HD Hi Resolution.
*5 This item can be selected when the input signal is DTS 96/24.
*6 This can be selected when the Dolby Atmos signal contains the Dolby TrueHD signal.
*7 This can be selected when the Dolby Atmos signal contains the Dolby Digital Plus signal.
*8 This can be selected when the Dolby Atmos signal contains the Dolby TrueHD or Dolby Digital Plus signal.
*9 The default sound mode for the AirPlay playback is “Direct”.
*10 This item can be selected when the input signals contain surround back signals.

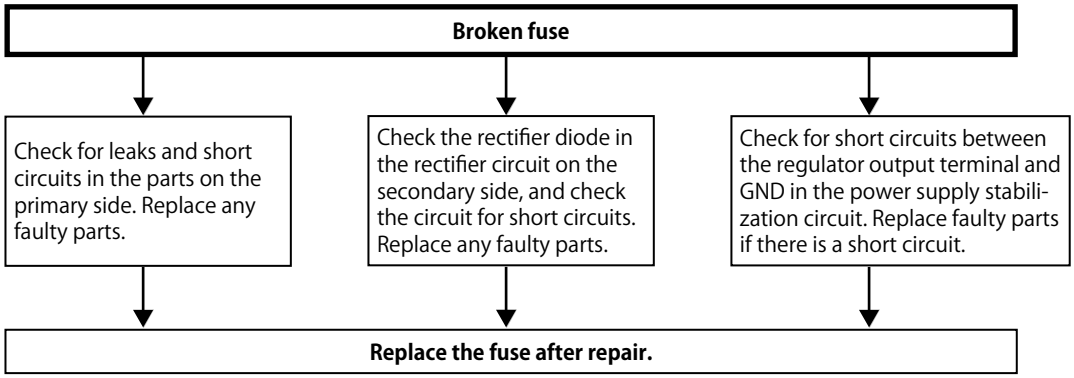
TROUBLE SHOOTING

1. POWER

1.1. The unit does not power on



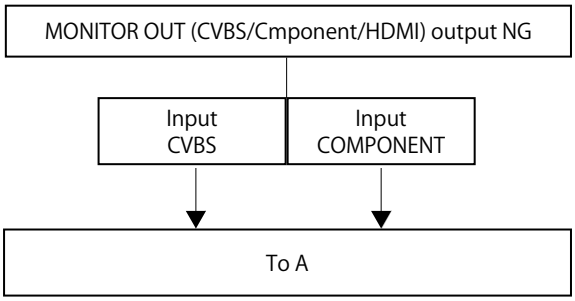
1.2. Fuse is blown

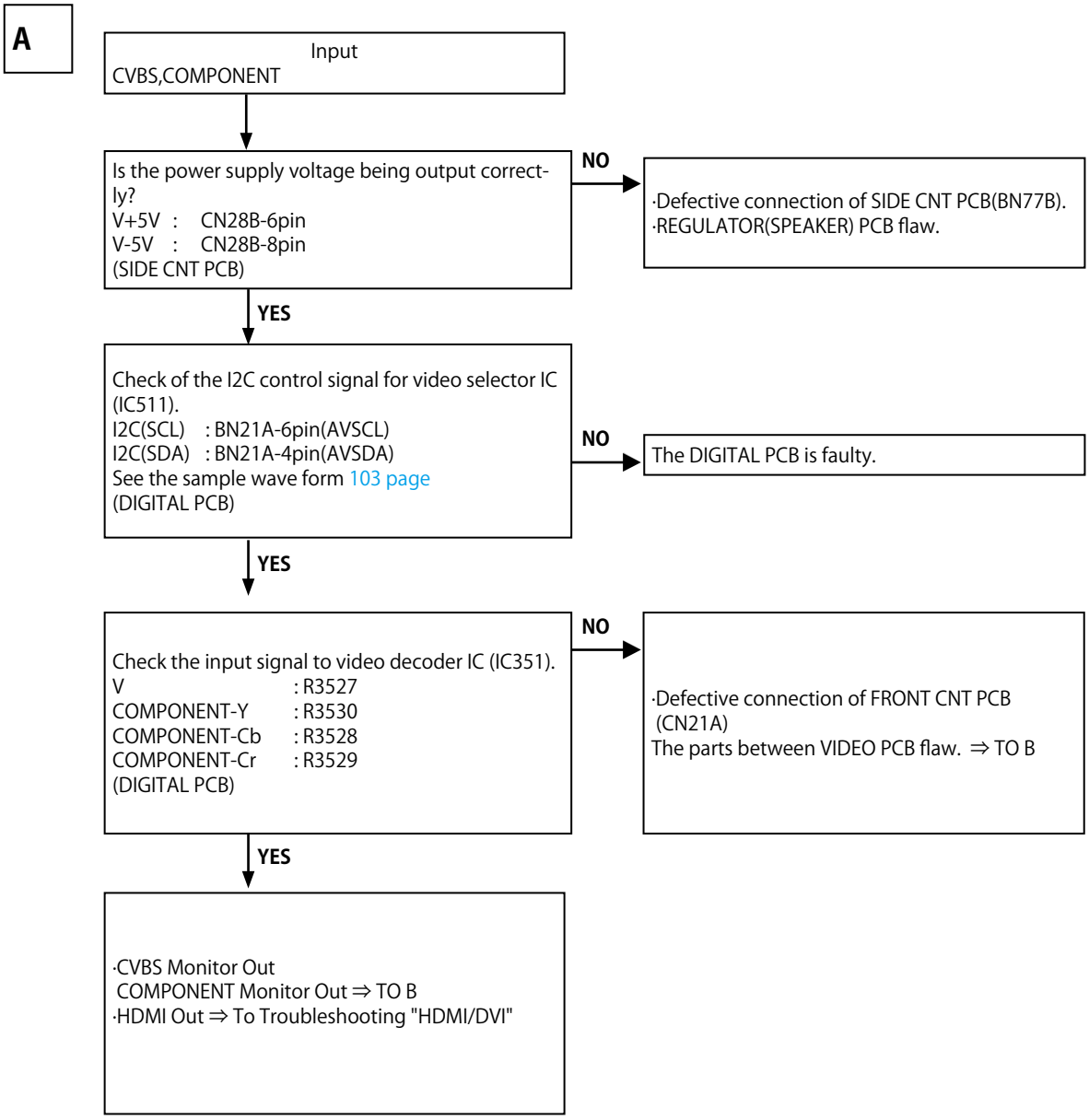


2. Analog video

Perform the operation below beforehand.-

※ Check it whether connection cable and Monitor are normal.
※ VIDEO Convert is set to ON.
※ Setting as follows.
V : SAT
COMPONENT : SAT





B

The VIDEO PCB is faulty.

↓

Use the jigs to extend the DIGITAL PCB.

↓ **YES**

Check power supply voltage and I2C control signal of video selector IC.(IC511)
V+3.3V : J5043
V-5V : J5042
I2C(SCL) : J5046
I2C(SDA) : J5047
(VIDEO PCB)

NO → Power supply IC (IC513) flaw.
SIDE CNT PCB(BN28B) flaw.
Video selector IC(IC511) の flaw.

↓ **YES**

Check the signal input to video selector IC. (IC511)
V : C5107
OMPONENT-Y : J5010
COMPONENT-Cb : J5007
COMPONENT-Cr : J5006
(VIDEO PCB)

NO → The circuit between IC511 are faulty.

↓ **YES**

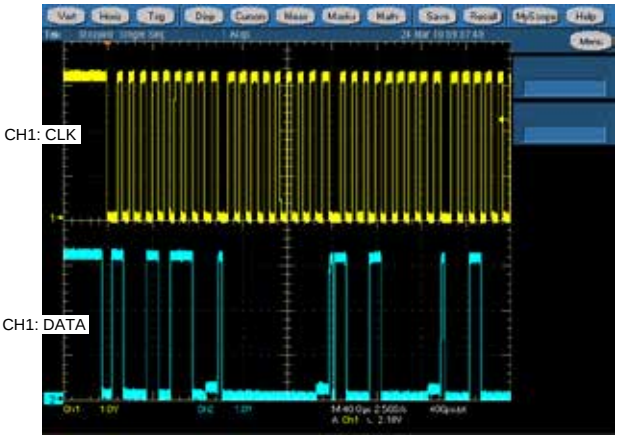
Check the signal output from video selector IC. (IC511)
(VIDEO PCB) to MONITOR to DIGITAL PCB
V : J5019 BN21B-17pin
OMPONENT-Y : J5021 BN21B-15pin
COMPONENT-Cb : J5028 BN21B-13pin
COMPONENT-Cr : J5029 BN21B-11pin

NO → Defective the soldering video selector IC (IC511) or video selector IC (IC511) flaw.

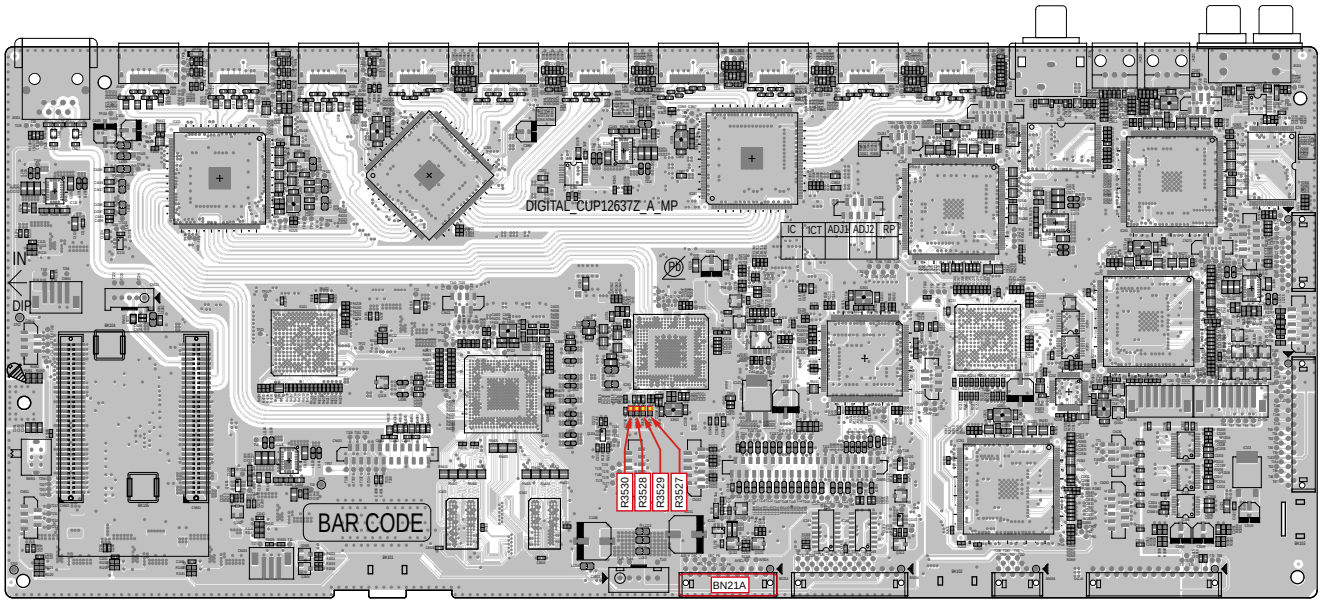
↓ **YES**

MONITOR OUT
Output terminal (JK511 or JK513) or pattern flaw.
HDMI OUT
Defective connection of FRONT CNT PCB (BN21B) or FRONT CNT PCB pattern flaw.

I2C communication wave form

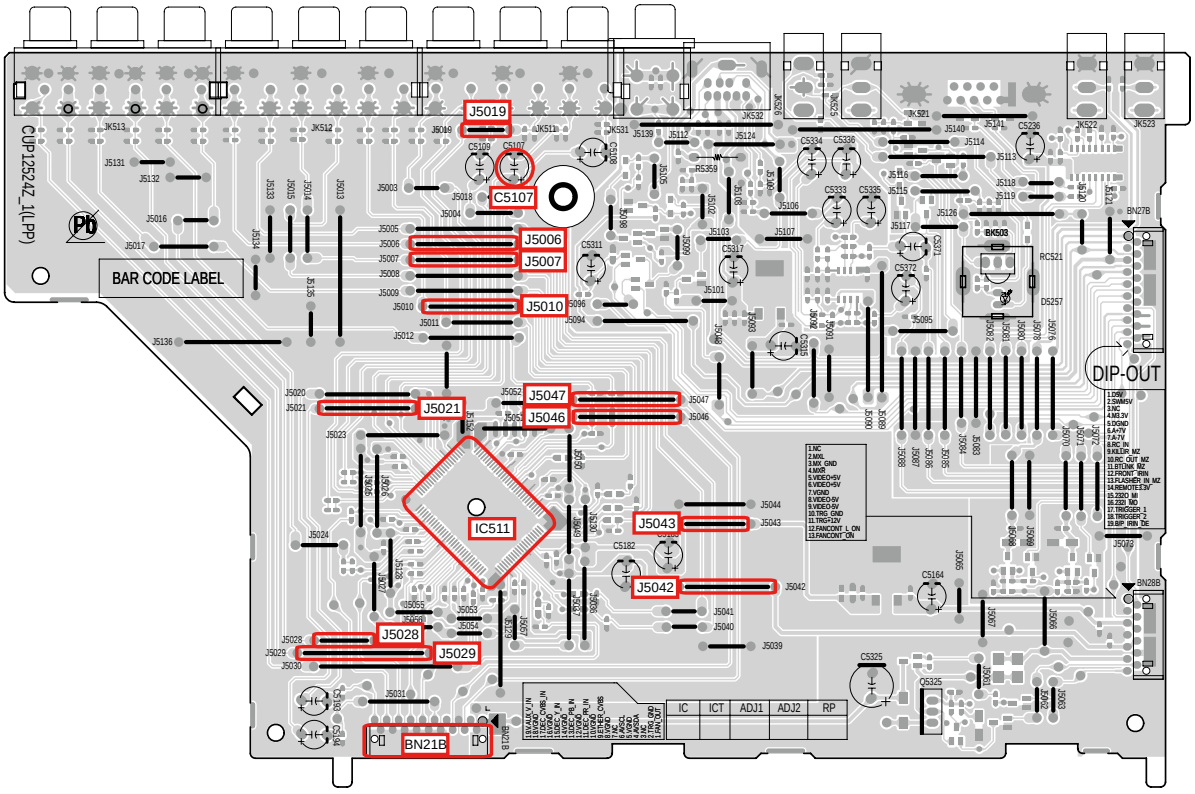


DIGITAL test point



(A SIDE)

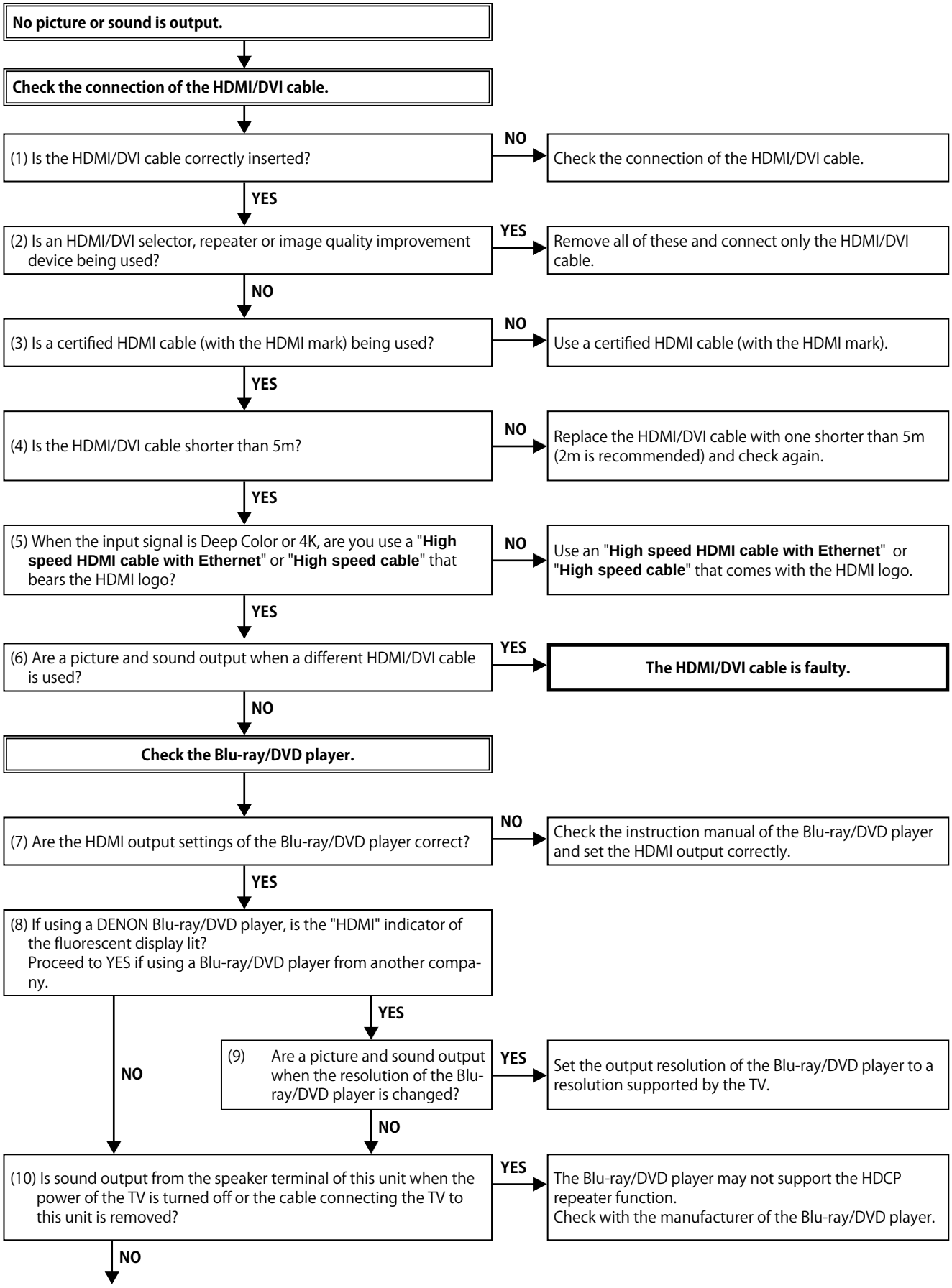
VIDEO test point

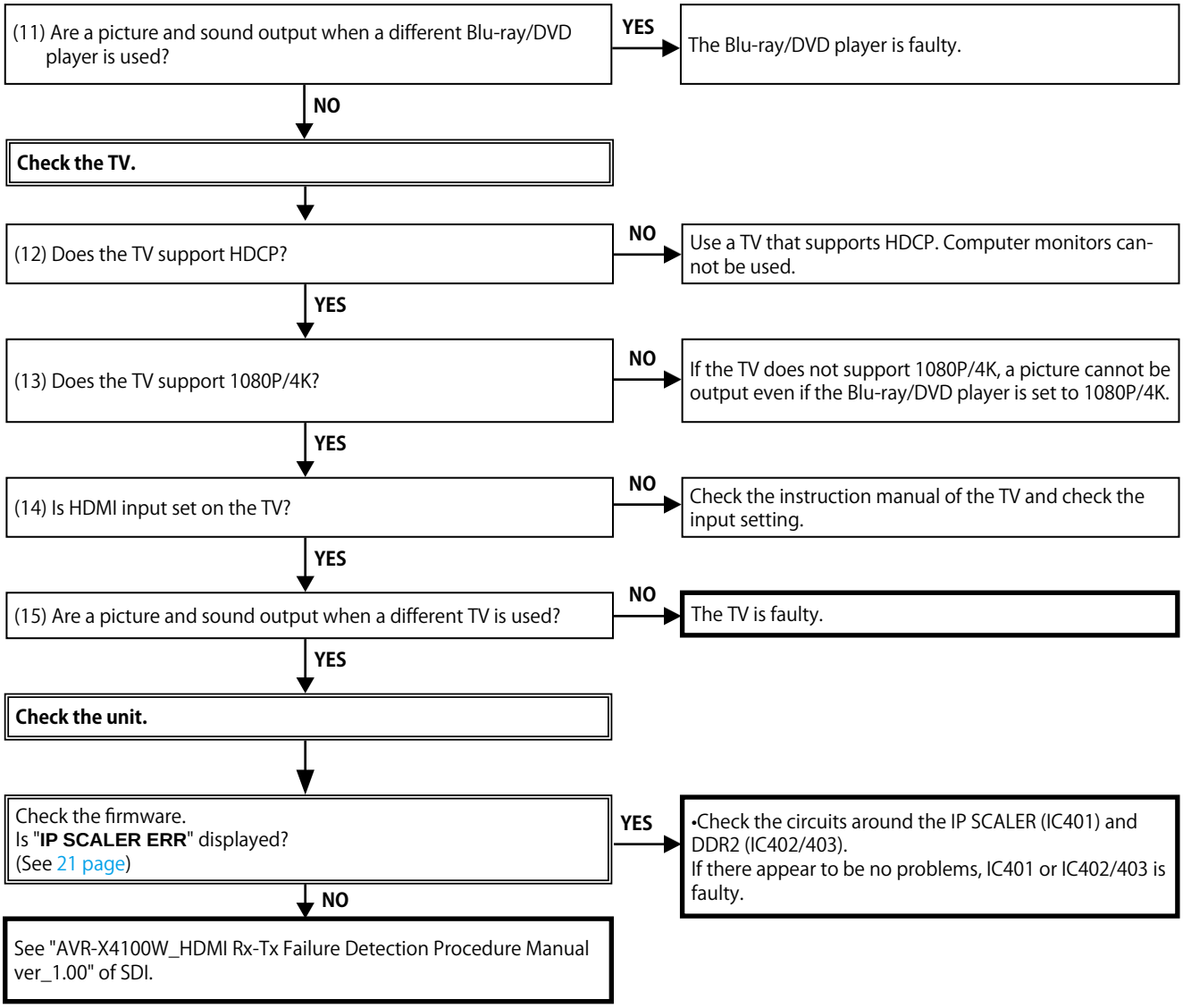


(A SIDE)

3. HDMI/DVI

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




(11) Are a picture and sound output when a different Blu-ray/DVD player is used?
YES
The Blu-ray/DVD player is faulty.
NO
Check the TV.
(12) Does the TV support HDCP?
NO
Use a TV that supports HDCP. Computer monitors cannot be used.
YES
(13) Does the TV support 1080P/4K?
NO
If the TV does not support 1080P/4K, a picture cannot be output even if the Blu-ray/DVD player is set to 1080P/4K.
YES
(14) Is HDMI input set on the TV?
NO
Check the instruction manual of the TV and check the input setting.
YES
(15) Are a picture and sound output when a different TV is used?
NO
The TV is faulty.
YES
Check the unit.
Check the firmware.
Is "IP SCALER ERR" displayed?
(See 21 page)
YES
•Check the circuits around the IP SCALER (IC401) and DDR2 (IC402/403).
If there appear to be no problems, IC401 or IC402/403 is faulty.
NO
See "AVR-X4100W_HDMI Rx-Tx Failure Detection Procedure Manual ver_1.00" of SDI.

4. AUDIO

4.1. AUDIO CHECK

No audio output

See "Audio Check PATH"(117 page)

CHECK1	INPUT	SURROND MODE	SOURCE
Audio output OK?	ANALOG 2CH	DIRECT	ANALOG

NO → Check the ANALOG AUDIO BLOCK

YES

CHECK2	INPUT	SURROND MODE	SOURCE
Audio output OK?	COAX or OPT	Don't care	Legacy (PCM or DolbyDigital or dts…)

NO → Check the DIGITAL AUDIO BLOCK

YES

CHECK3	INPUT	SURROND MODE	SOURCE
Audio output OK?	ANALOG 2CH	MULTICH STEREO	ANALOG

NO → Check the ADC BLOCK

YES

CHECK4	INPUT	SURROND MODE	SOURCE
Audio output OK?	HDMI	Don't care	Legacy (PCM2ch or DolbyDigital or dts…)

NO → Check the HDMI BLOCK

YES

CHECK5	INPUT	SURROND MODE	SOURCE
Audio output OK?	HDMI	Don't care	HBR audio (DolbyTrueHD or dtsHD MA)

YES (DIGITAL AUDIO BLOCK is OK) → Check for other causes

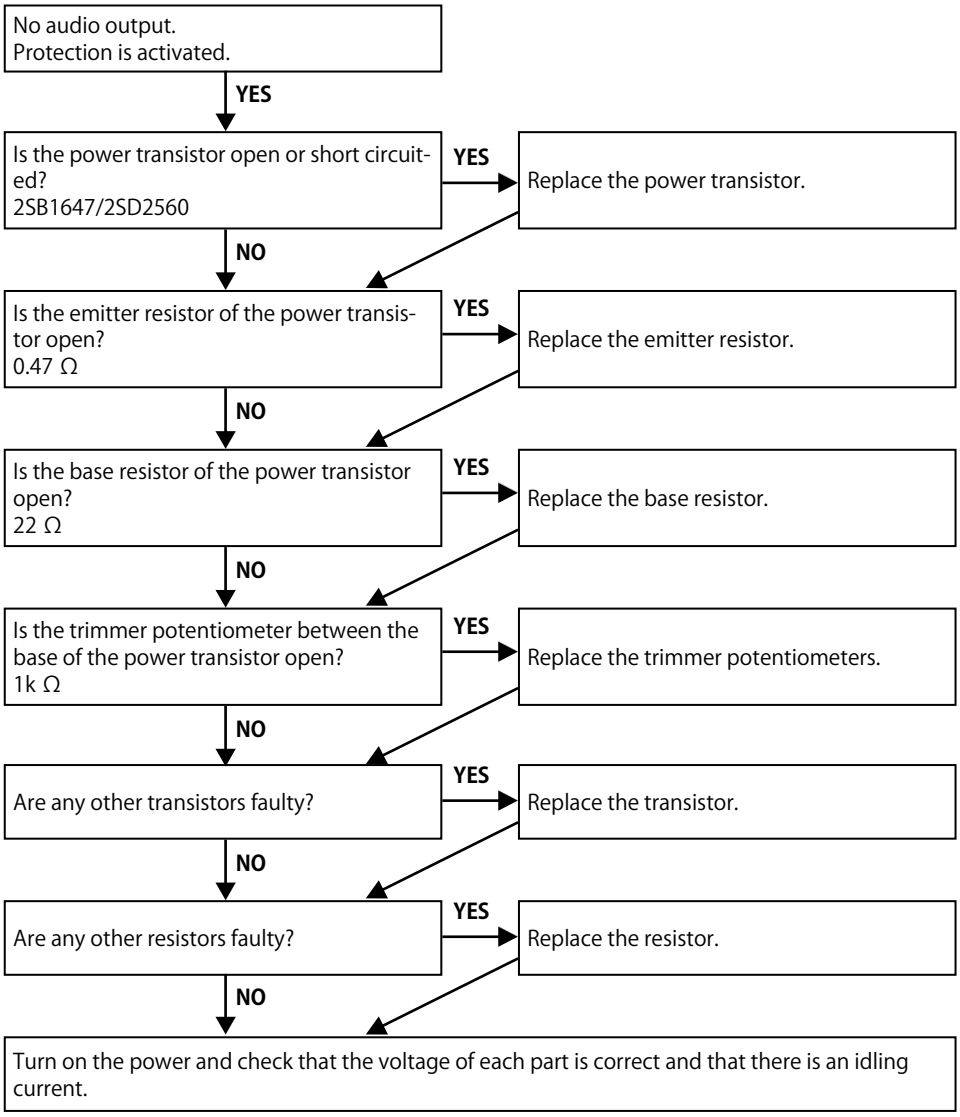
NO

CHECK6	INPUT	Connect	
AVR's (connected in HDMI) audio output OK?	HDMI	This unit's HDMI OUT → Other AVR's HDMI IN	
	Setting	SURROND MODE	SOURCE
	CEC STANDBY	Don't care	HBR audio (DolbyTrueHD or dtsHD MA)

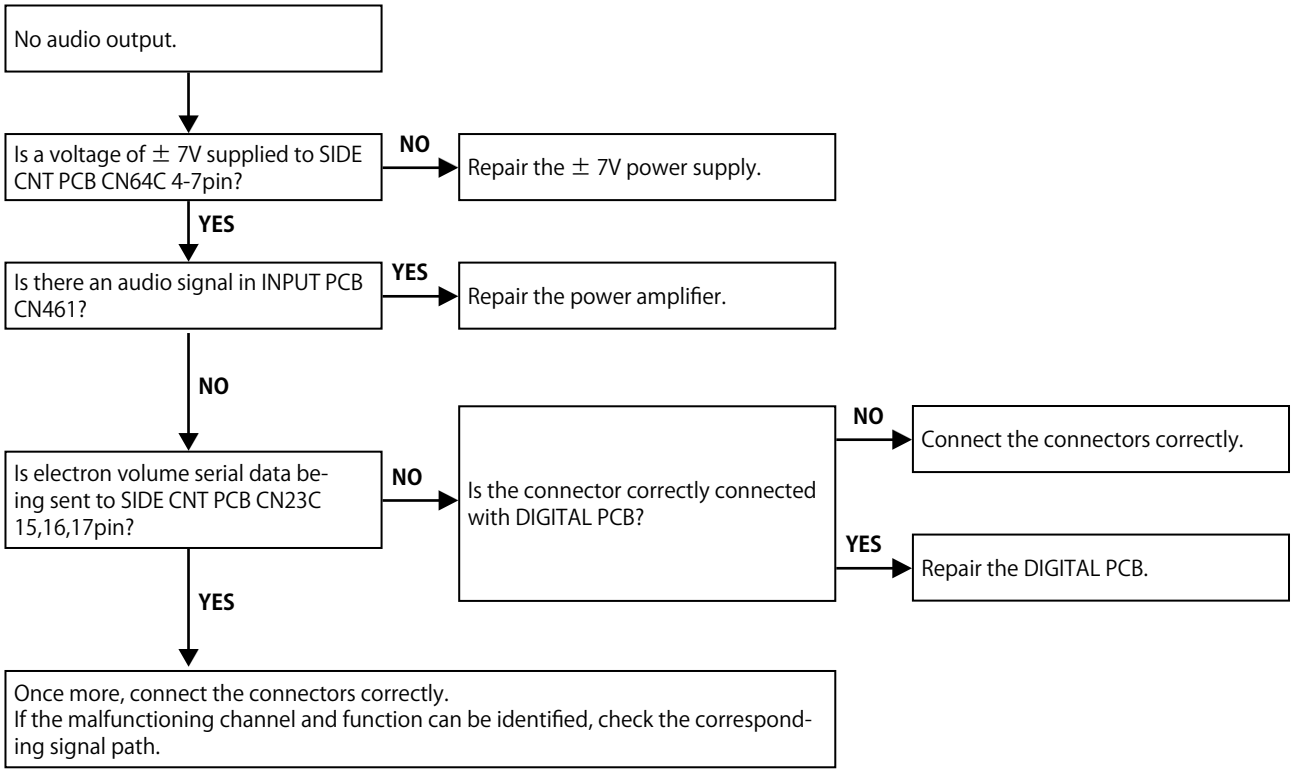
YES → Check the DIGITAL AUDIO BLOCK

NO → Check the HDMI BLOCK

4.2. Power AMP (AMP PCB)

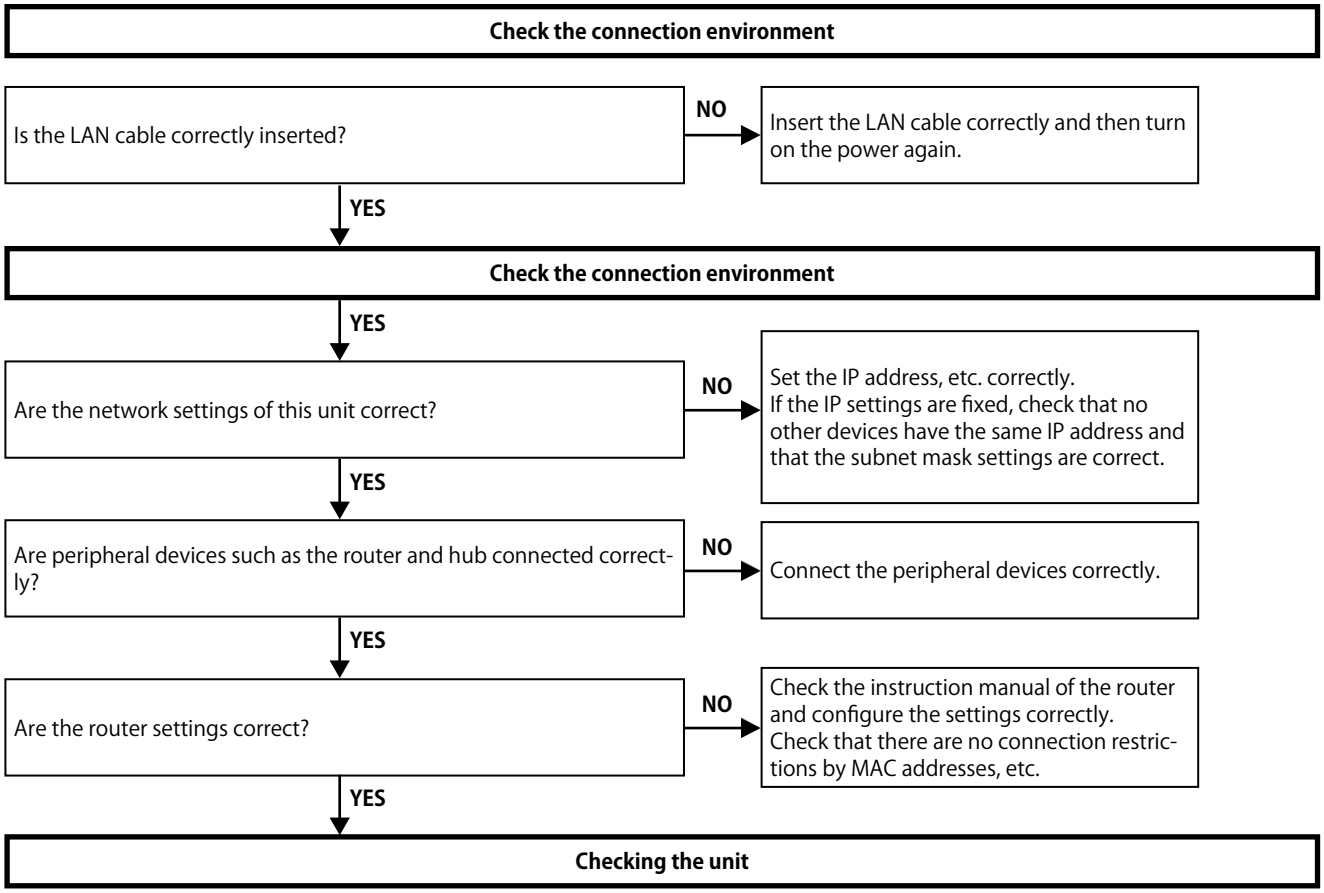


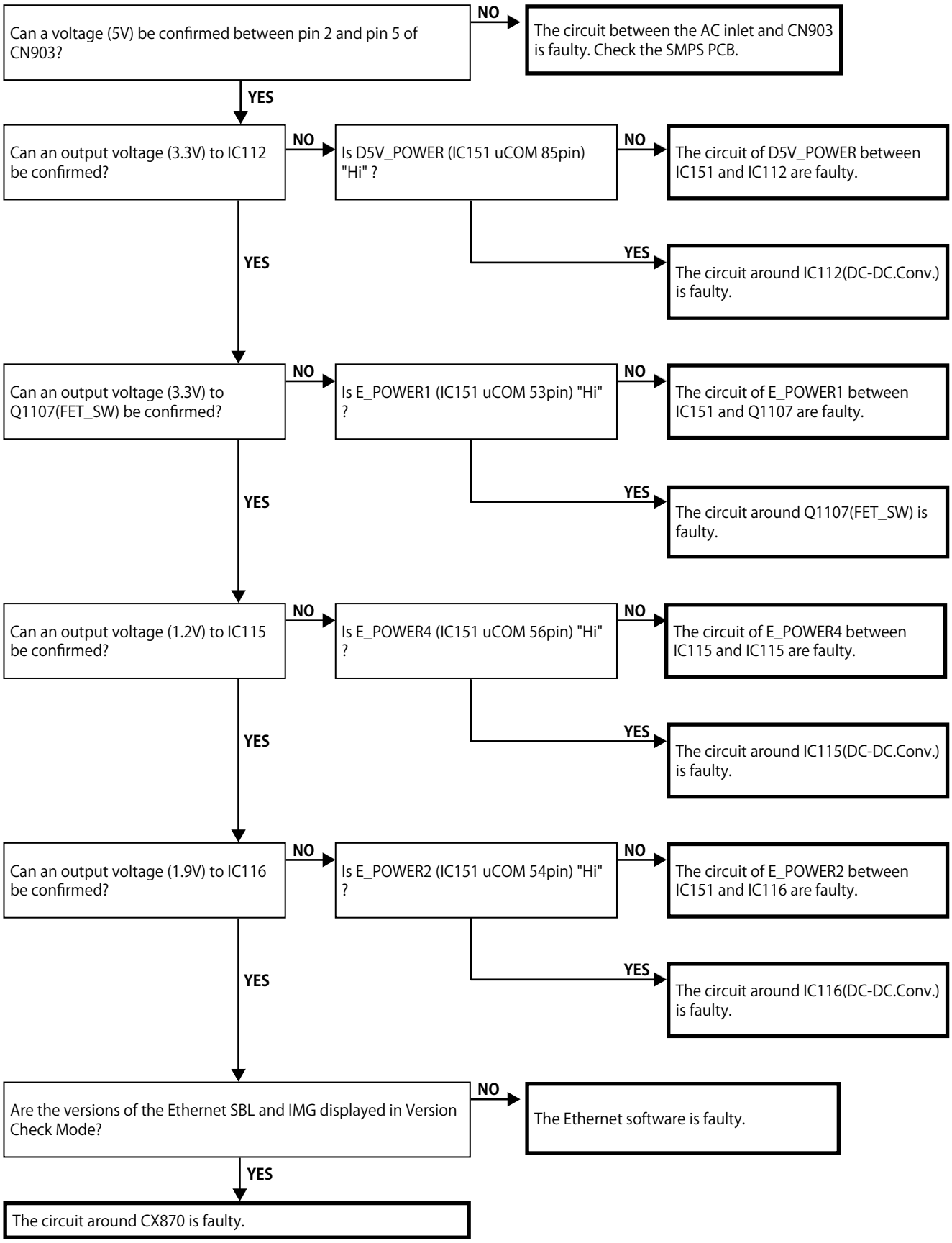
4.3. Analog audio



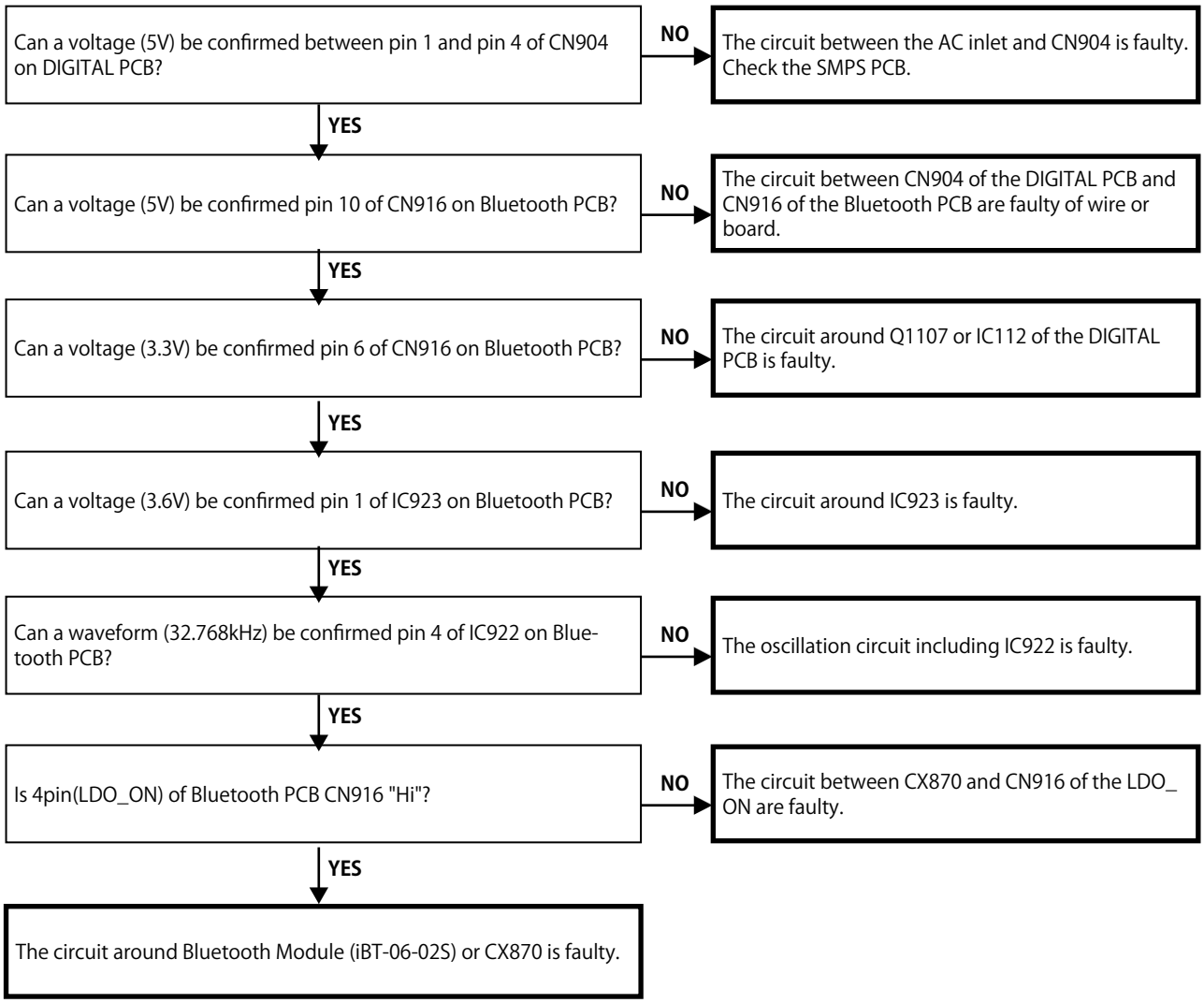
5. Network/Bluetooth/USB

5.1. Cannot connect to the network

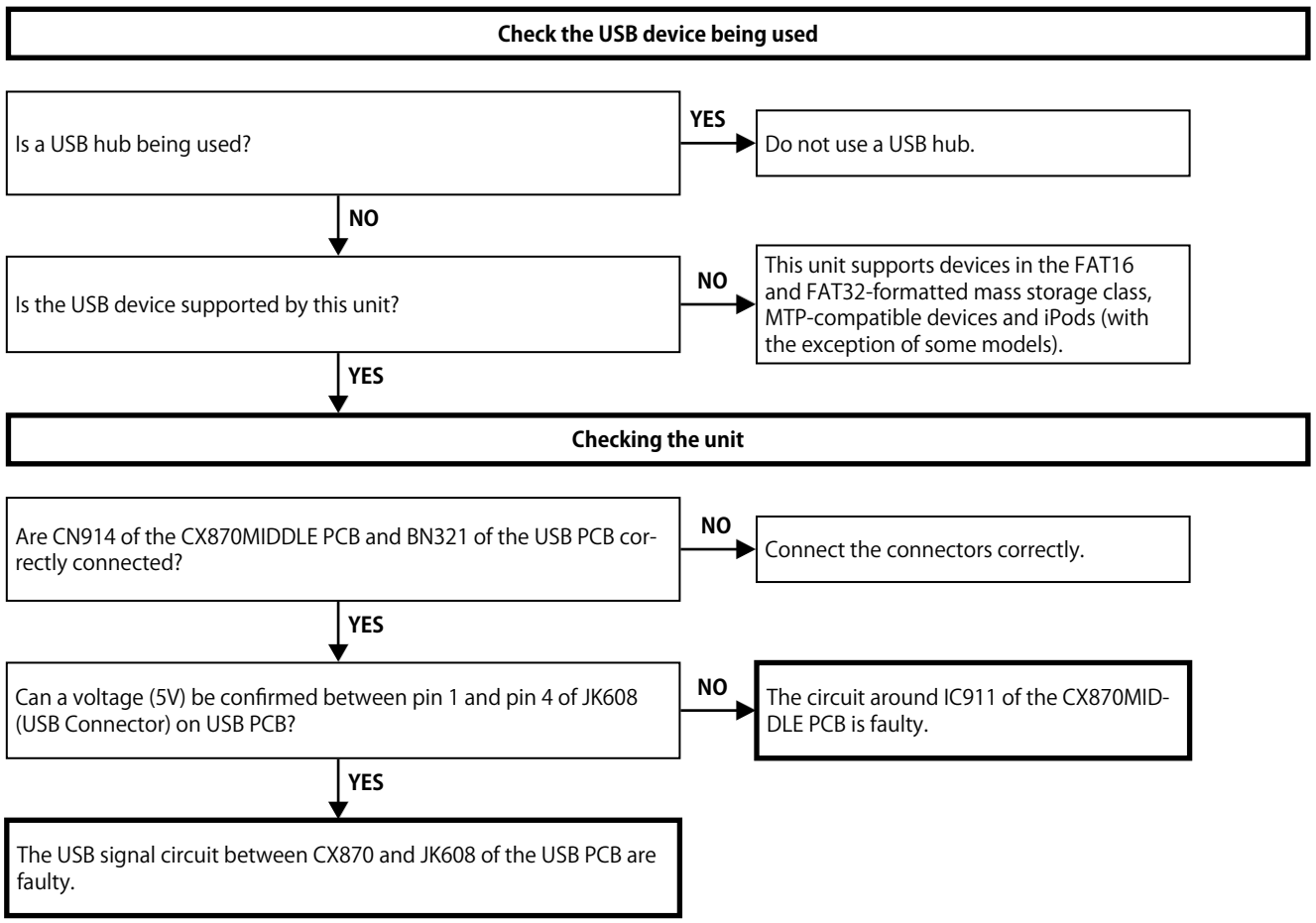



Can a voltage (5V) be confirmed between pin 2 and pin 5 of CN903?
NO
The circuit between the AC inlet and CN903 is faulty. Check the SMPS PCB.
YES
Can an output voltage (3.3V) to IC112 be confirmed?
NO
Is D5V_POWER (IC151 uCOM 85pin) "Hi" ?
NO
The circuit of D5V_POWER between IC151 and IC112 are faulty.
YES
The circuit around IC112(DC-DC.Conv.) is faulty.
YES
Can an output voltage (3.3V) to Q1107(FET_SW) be confirmed?
NO
Is E_POWER1 (IC151 uCOM 53pin) "Hi" ?
NO
The circuit of E_POWER1 between IC151 and Q1107 are faulty.
YES
The circuit around Q1107(FET_SW) is faulty.
YES
Can an output voltage (1.2V) to IC115 be confirmed?
NO
Is E_POWER4 (IC151 uCOM 56pin) "Hi" ?
NO
The circuit of E_POWER4 between IC115 and IC115 are faulty.
YES
The circuit around IC115(DC-DC.Conv.) is faulty.
YES
Can an output voltage (1.9V) to IC116 be confirmed?
NO
Is E_POWER2 (IC151 uCOM 54pin) "Hi" ?
NO
The circuit of E_POWER2 between IC151 and IC116 are faulty.
YES
The circuit around IC116(DC-DC.Conv.) is faulty.
YES
Are the versions of the Ethernet SBL and IMG displayed in Version Check Mode?
NO
The Ethernet software is faulty.
YES
The circuit around CX870 is faulty.

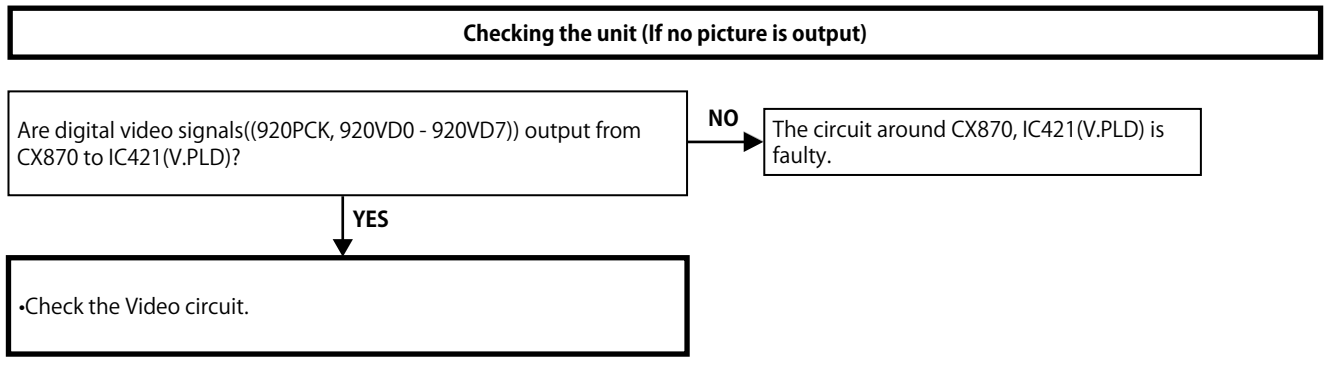
5.2. Cannot connect to the Bluetooth

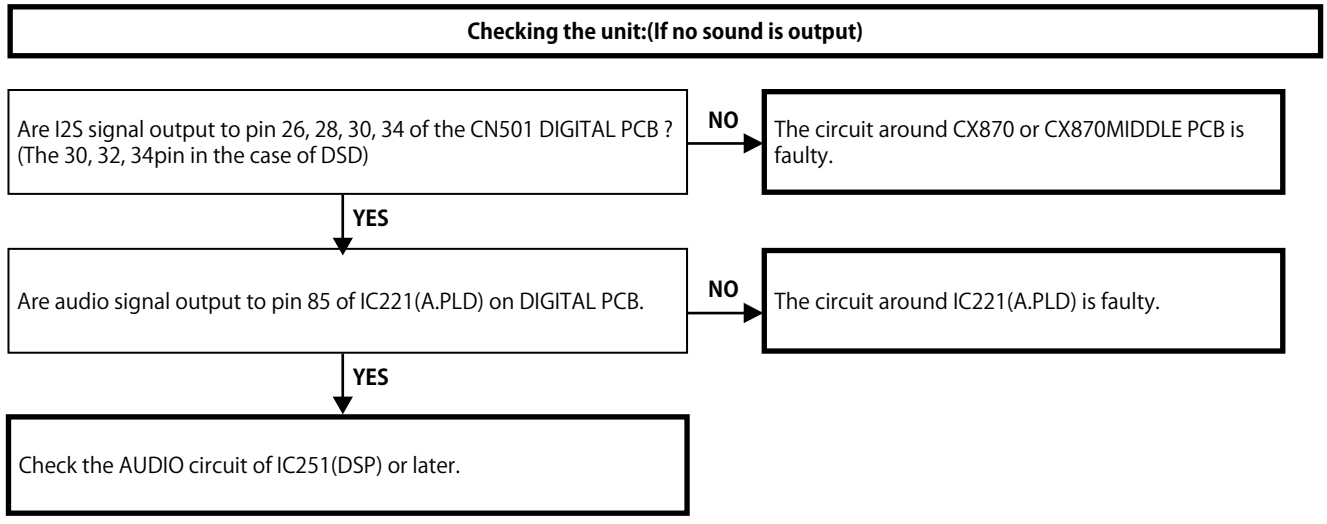


5.3. A connected USB device is not recognized.

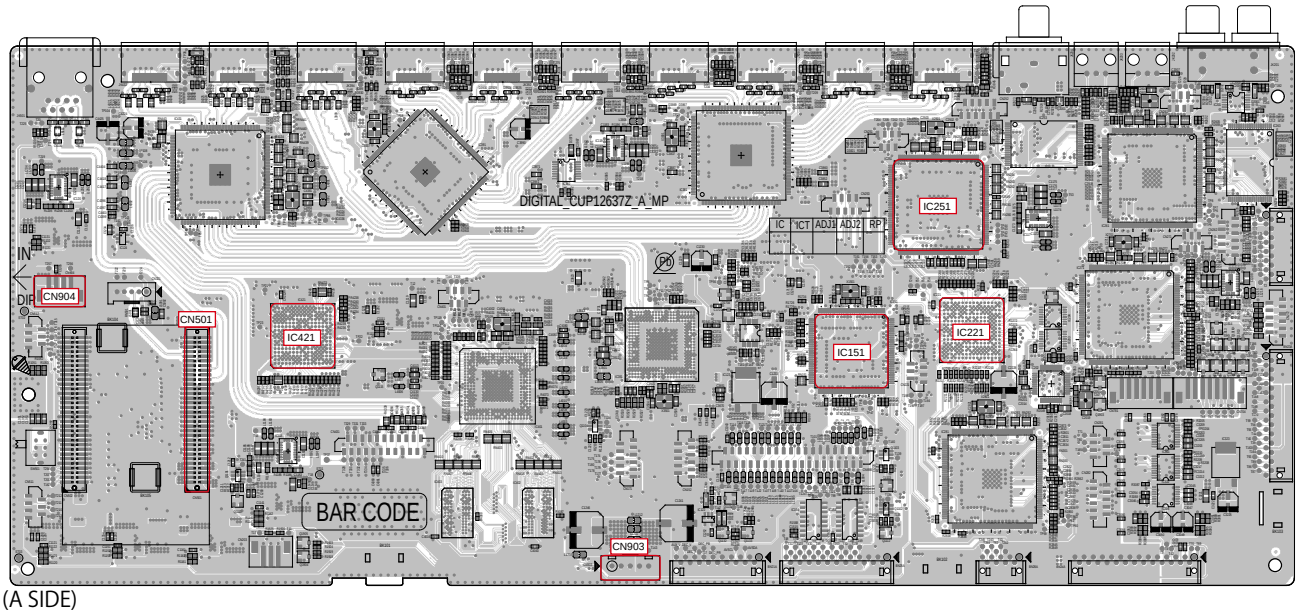


5.4. No picture or sound is output.

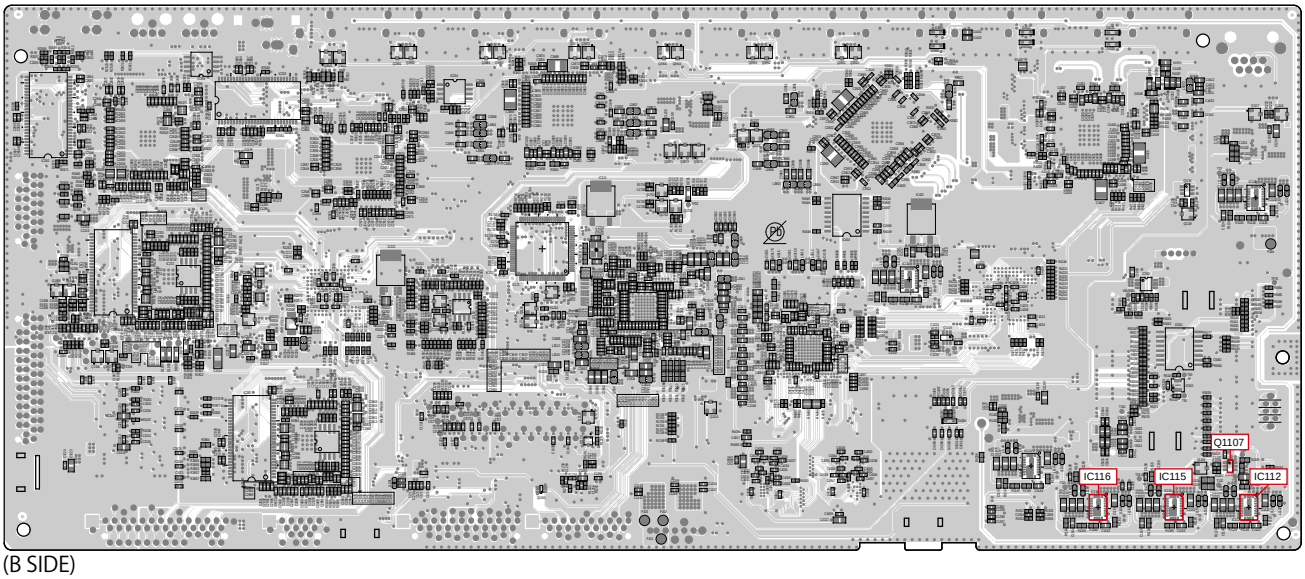




DIGITAL test point

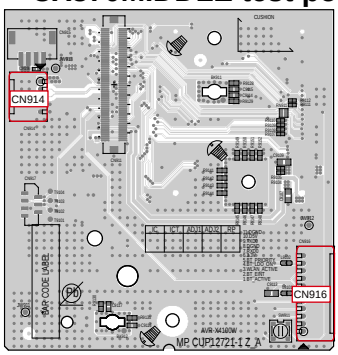


(A SIDE)

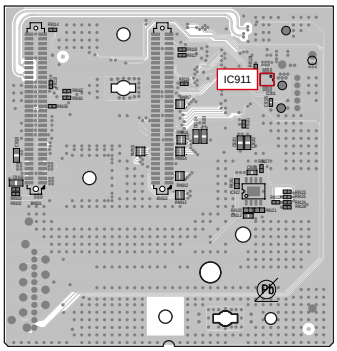


(B SIDE)

CX870MIDDLE test point

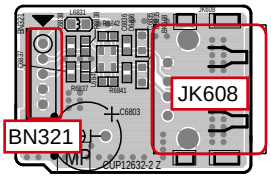


(A SIDE)



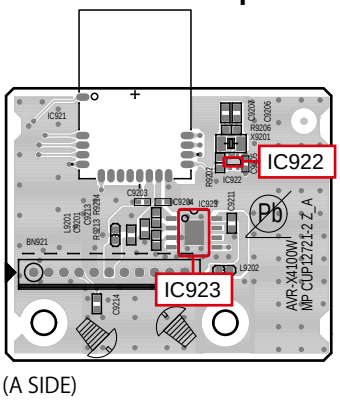
(B SIDE)

USB test point



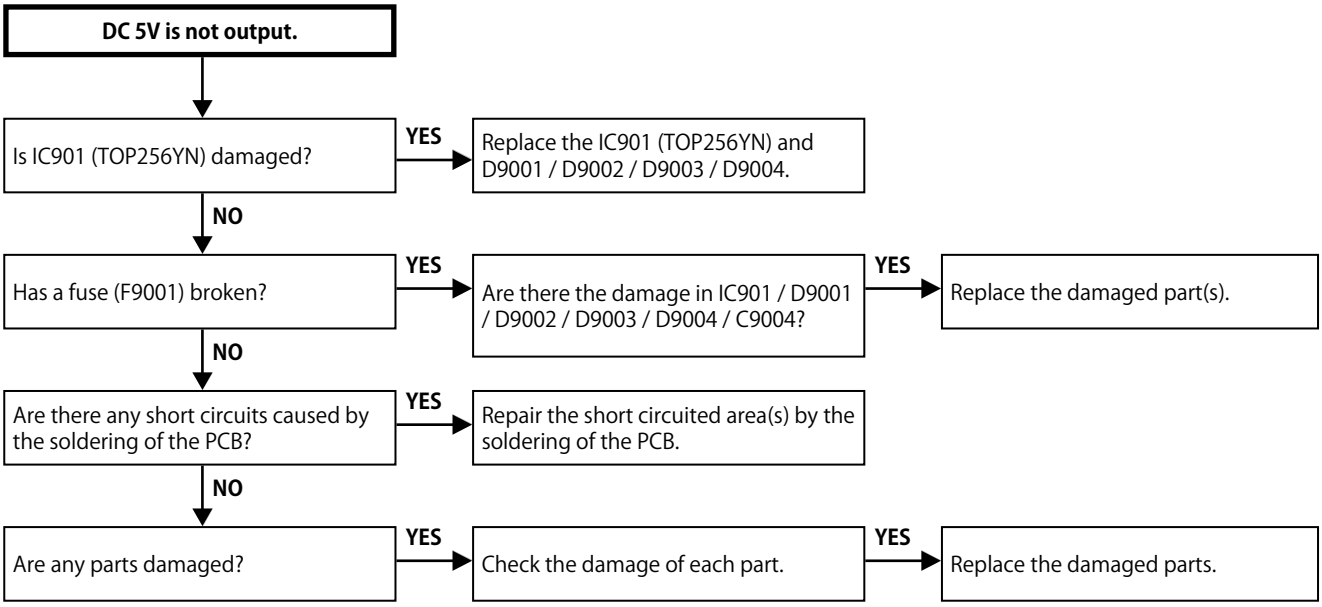
(A SIDE)

Bluetooth test point

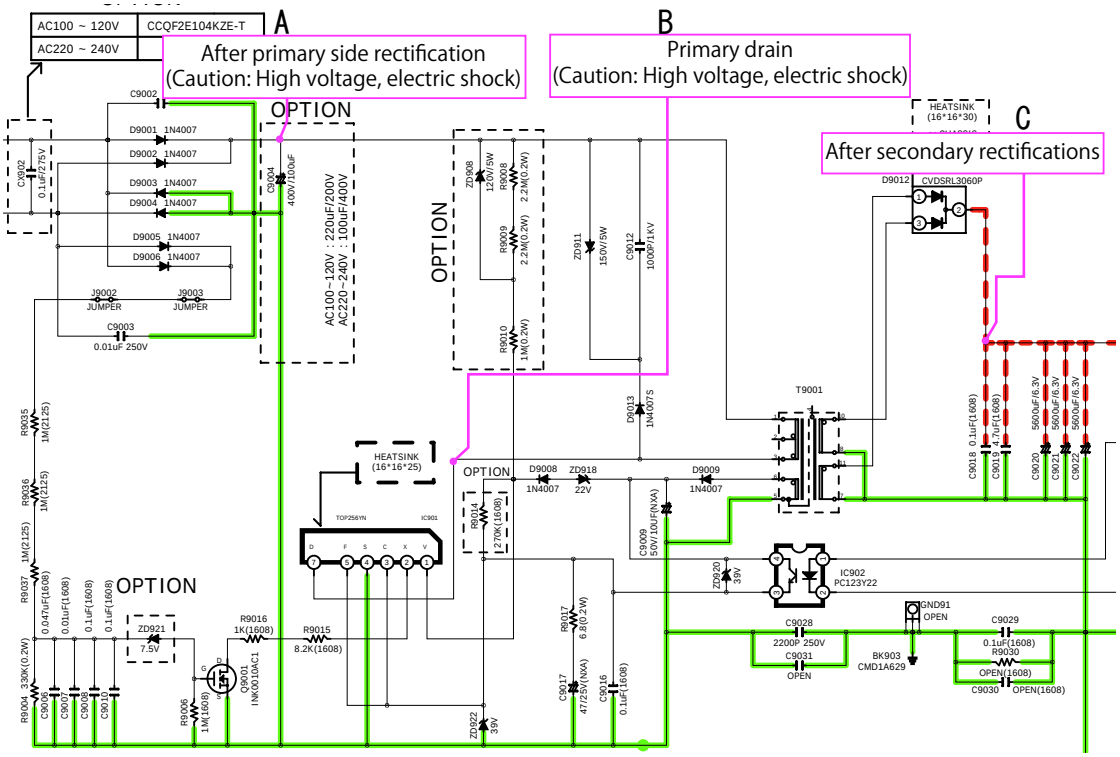


(A SIDE)

6. SMPS


DC 5V is not output.
Is IC901 (TOP256YN) damaged?
YES
Replace the IC901 (TOP256YN) and D9001 / D9002 / D9003 / D9004.
NO
Has a fuse (F9001) broken?
YES
Are there the damage in IC901 / D9001 / D9002 / D9003 / D9004 / C9004?
YES
Replace the damaged part(s).
NO
Are there any short circuits caused by the soldering of the PCB?
YES
Repair the short circuited area(s) by the soldering of the PCB.
NO
Are any parts damaged?
YES
Check the damage of each part.
YES
Replace the damaged parts.

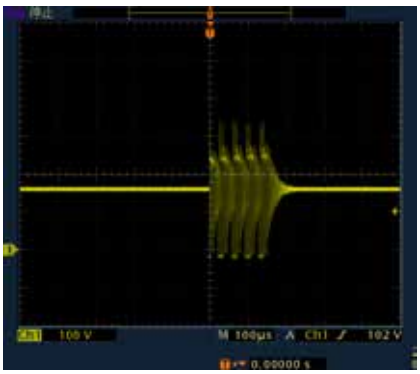
Operation waveform for each part



SMPS unit
(Unloaded)

A

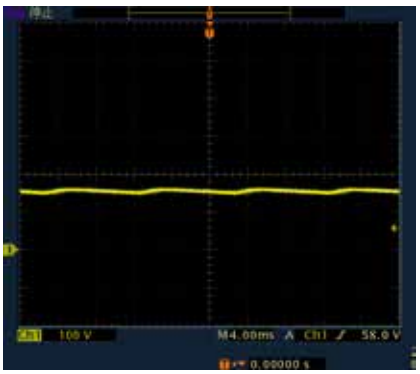
B



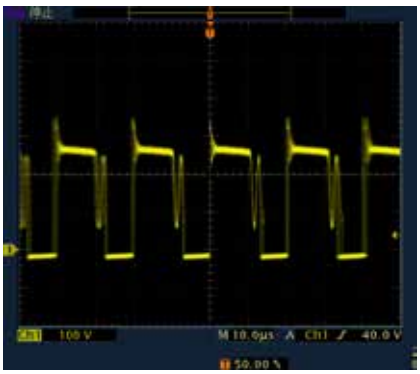
C

Set

A



B



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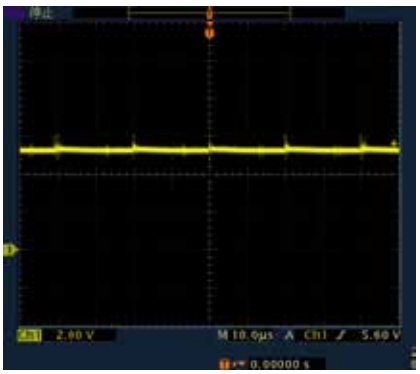
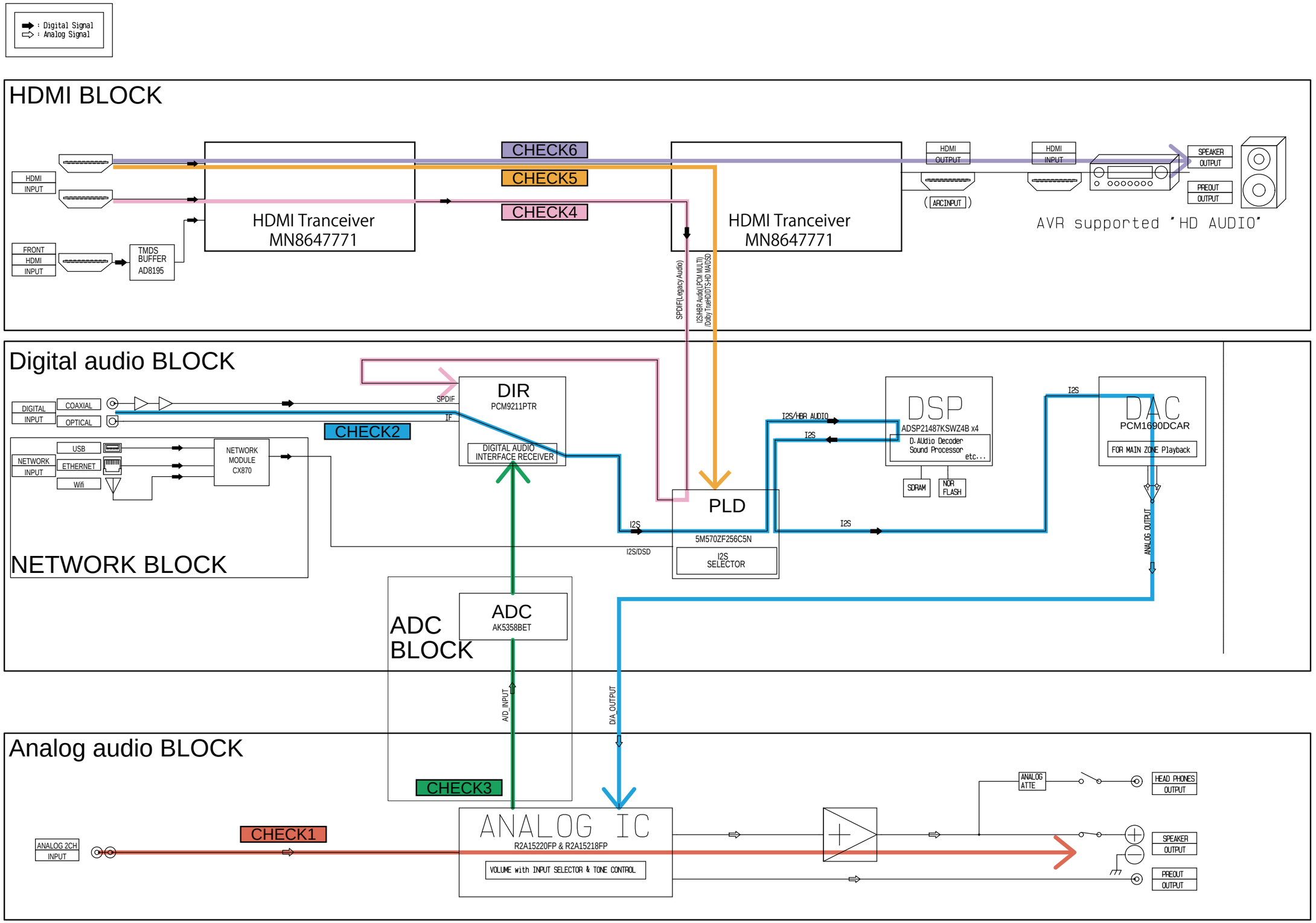


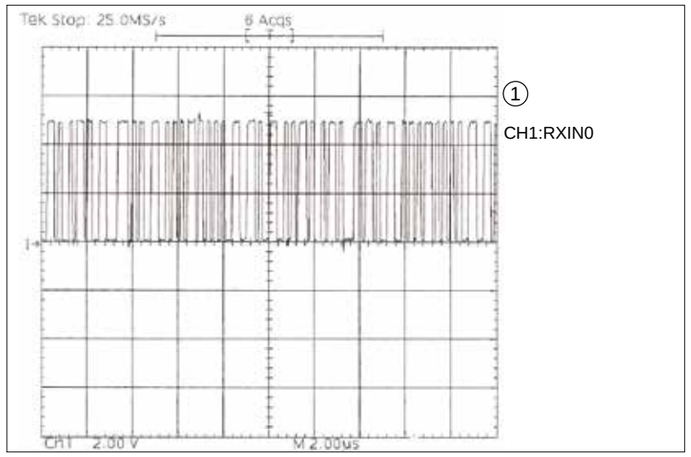
AUDIO CHECK PASS

See TROUBLE SHOOTING"**4.1. AUDIO CHECK**"(107 page)



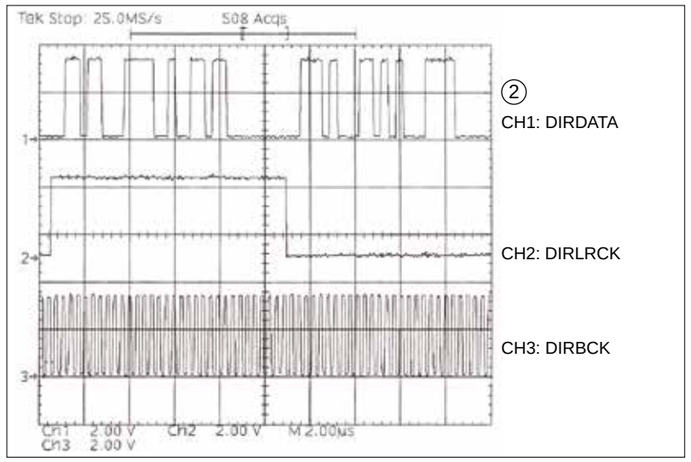
CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

WAVE FORM



①

CH1:RXIN0

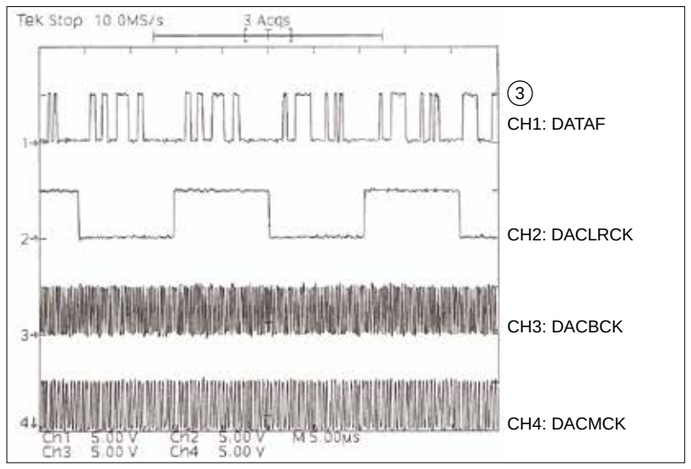


②

CH1: DIRDATA

CH2: DIRLRCK

CH3: DIRBCK



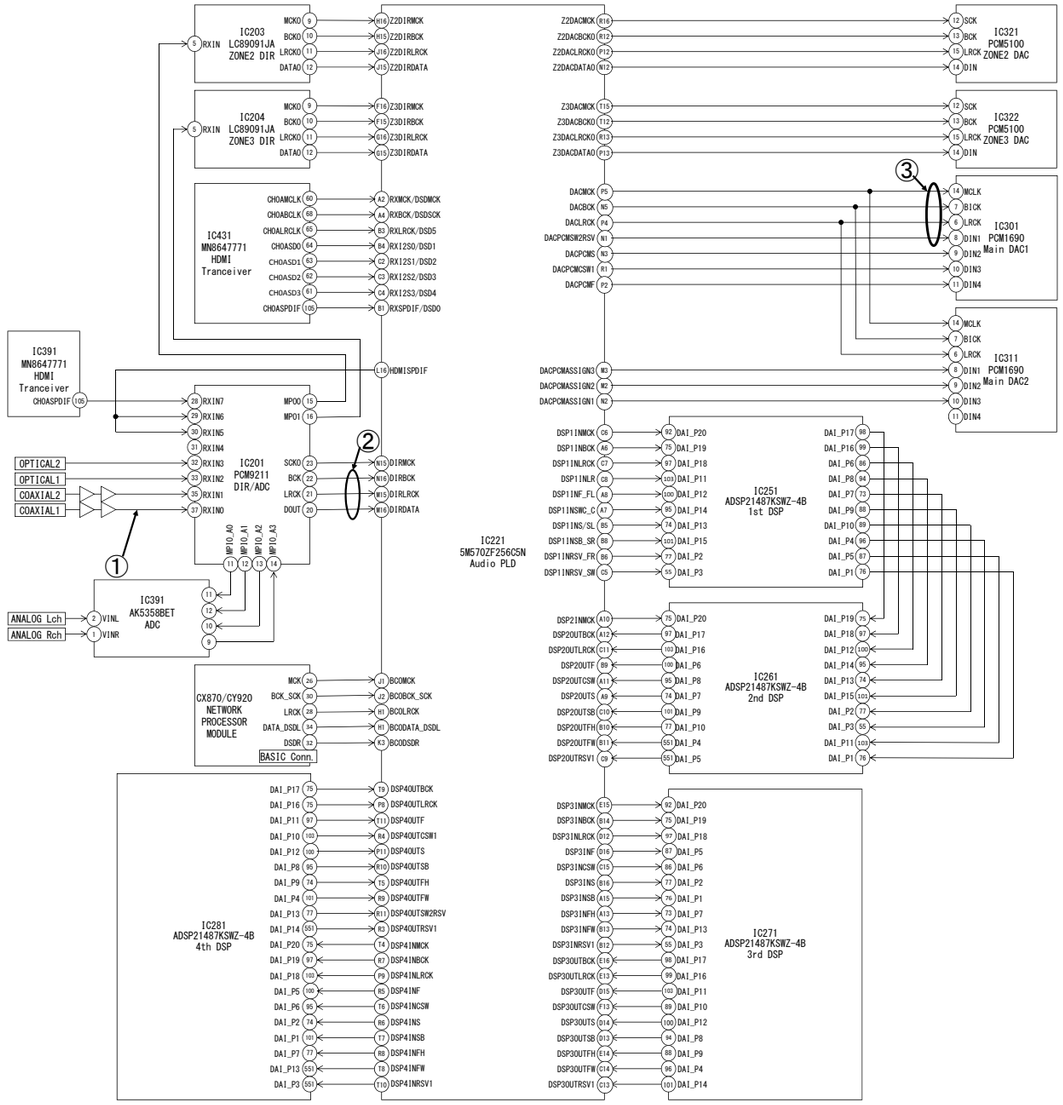
③

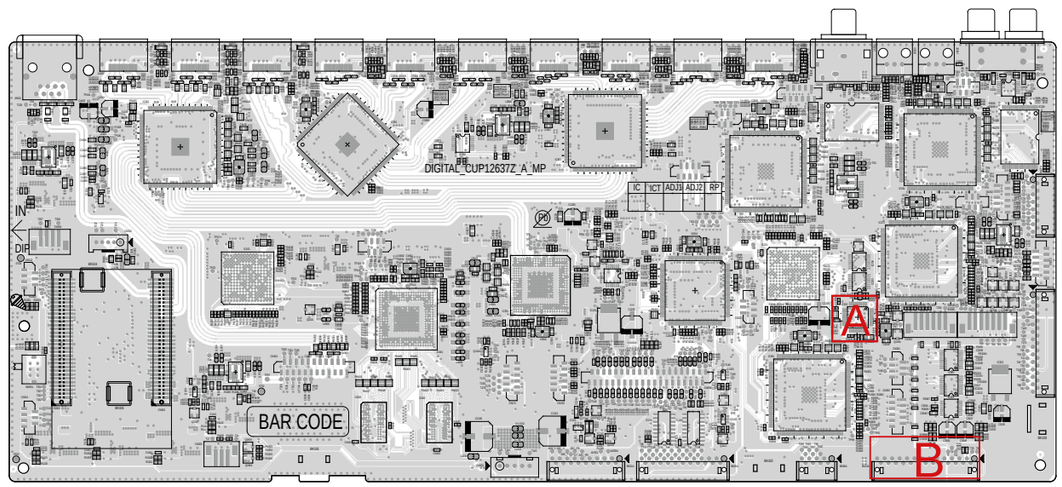
CH1: DATAF

CH2: DACLRCK

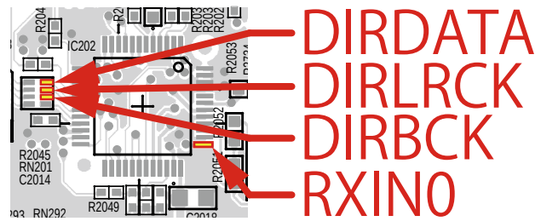
CH3: DACBCK

CH4: DACMCK

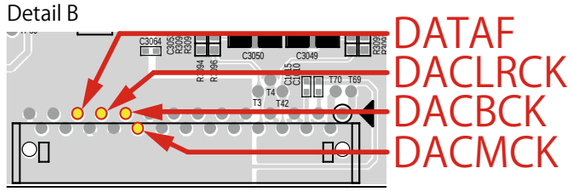




Detail A

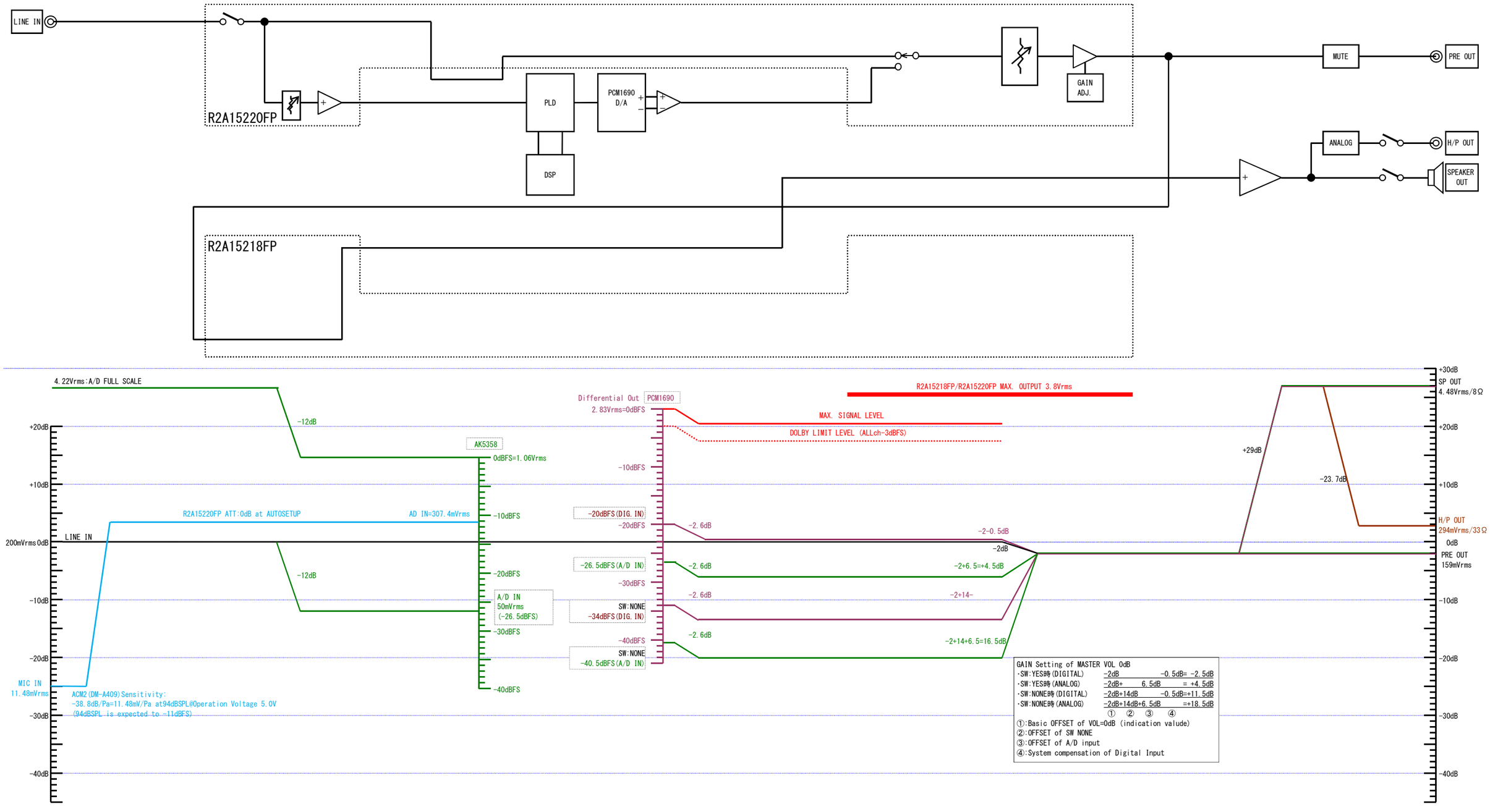


Detail B

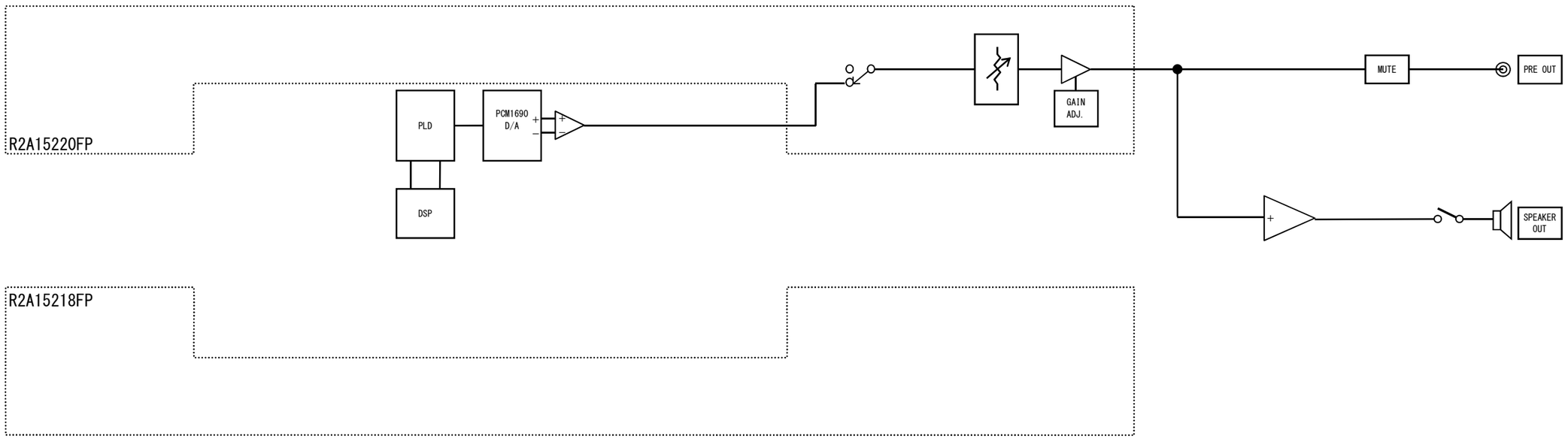


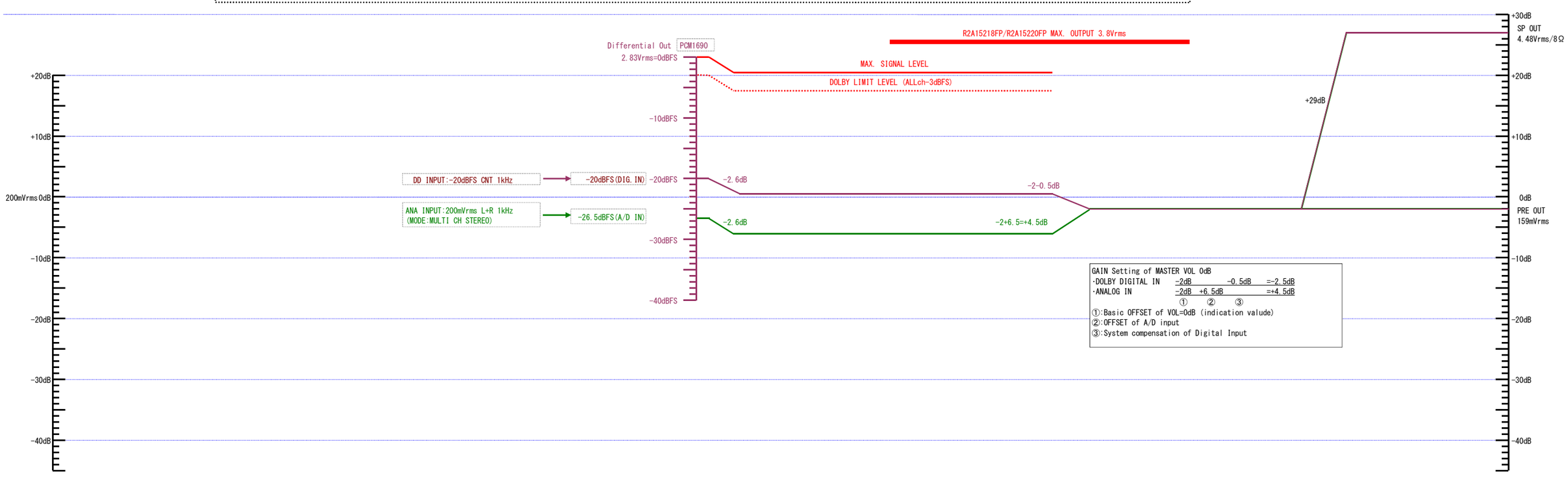
LEVEL DIAGRAM

AVR-X4100
LEVEL DIAGRAM
FRONT ch

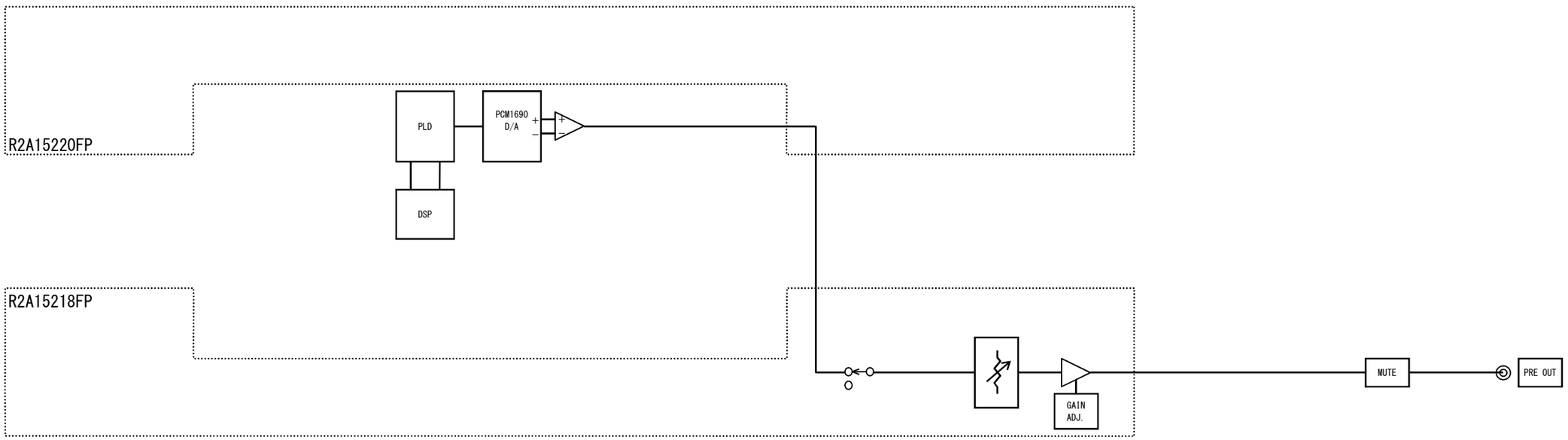


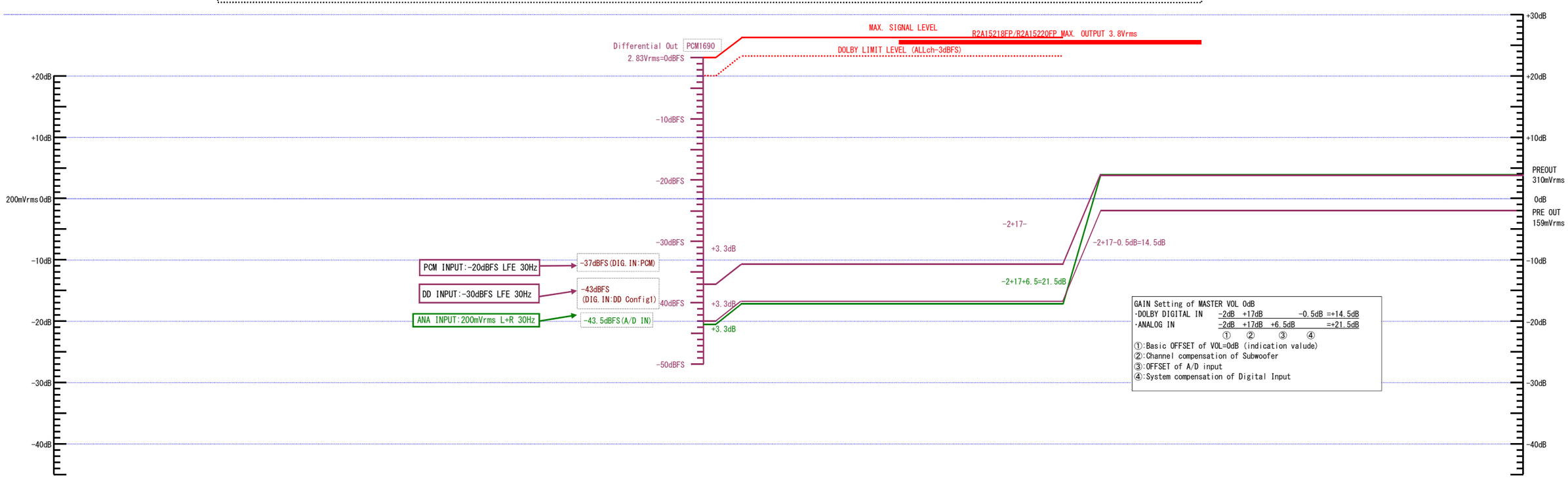
AVR-X4100
LEVEL DIAGRAM
CENTER ch



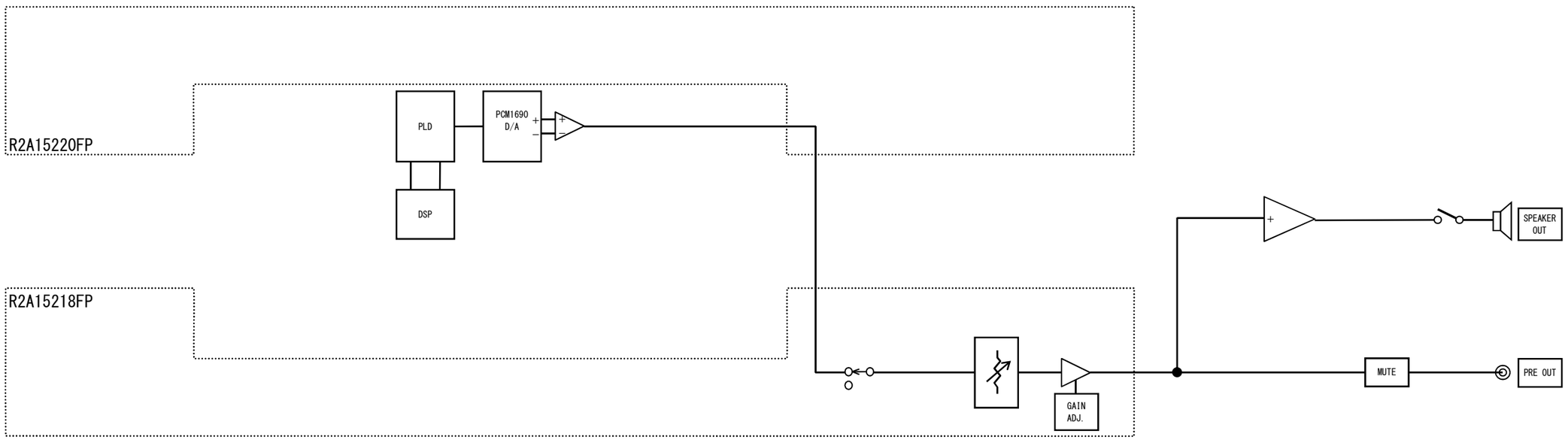


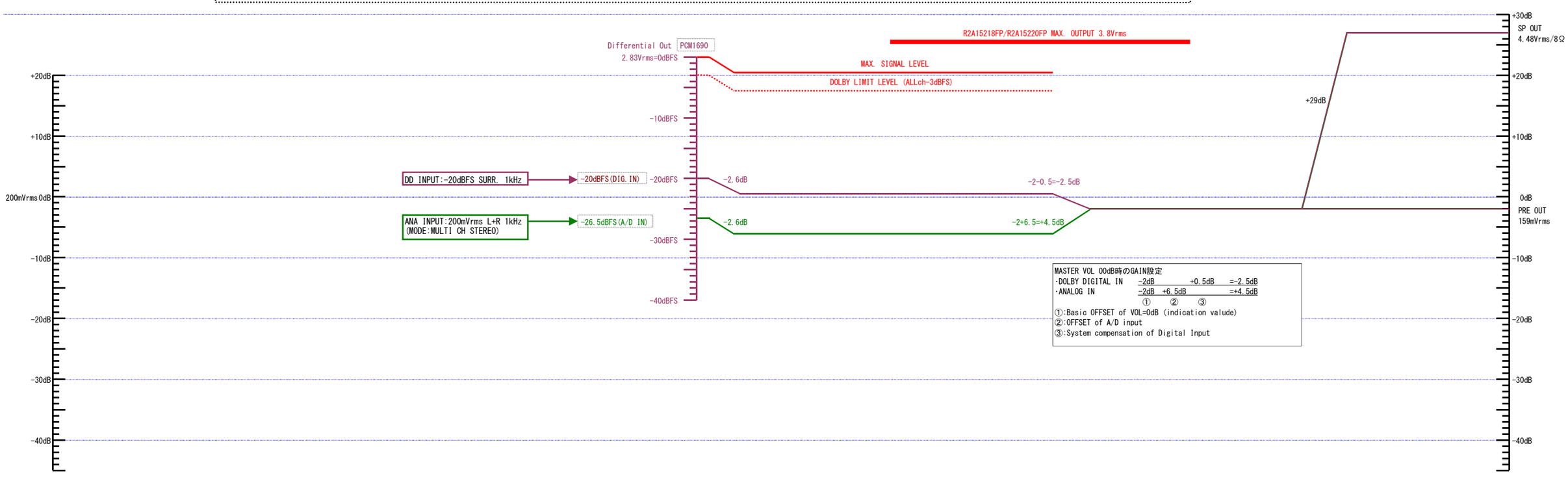
AVR-X4100
LEVEL DIAGRAM
SUBWOOFER ch



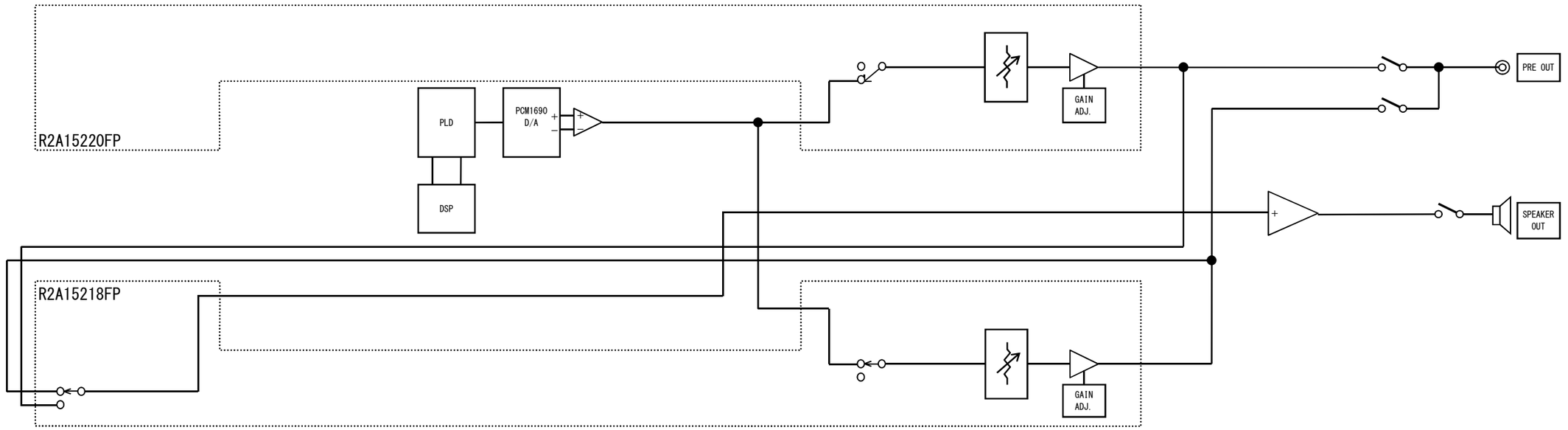


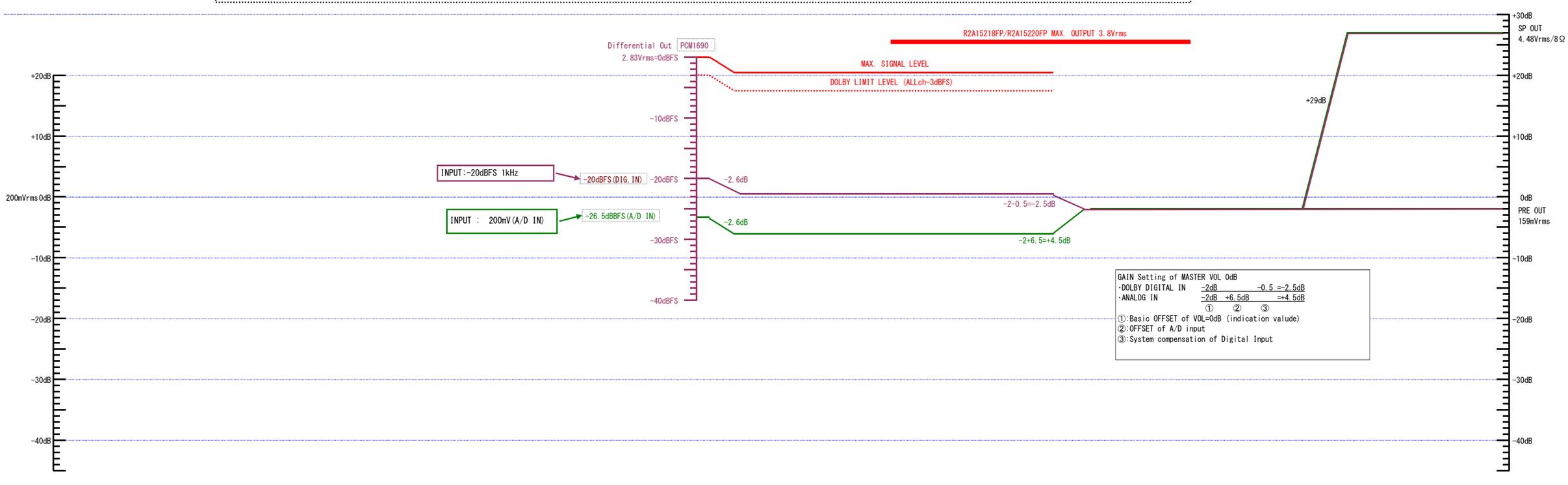
AVR-X4100
LEVEL DIAGRAM
SURROUND ch



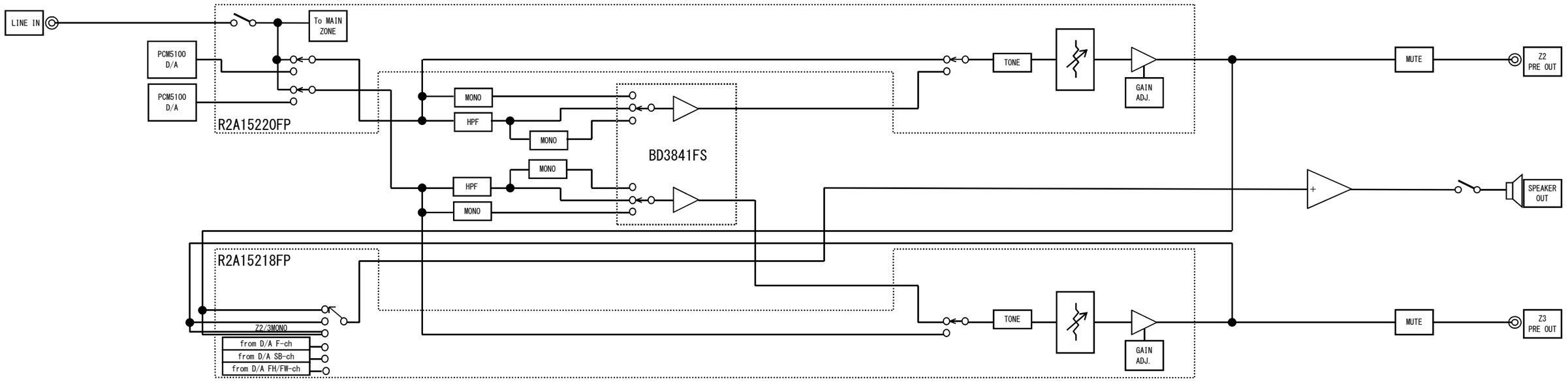


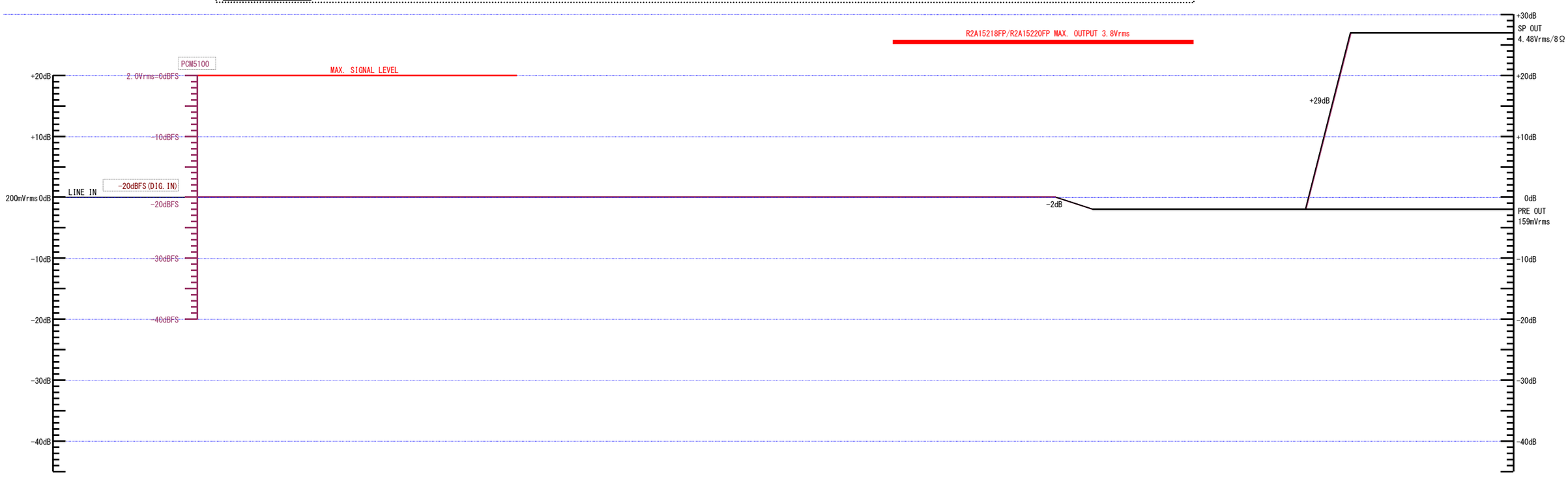
AVR-X4100
LEVEL DIAGRAM
SURR.BACK / Front Wide / Height1 / Height2 ch





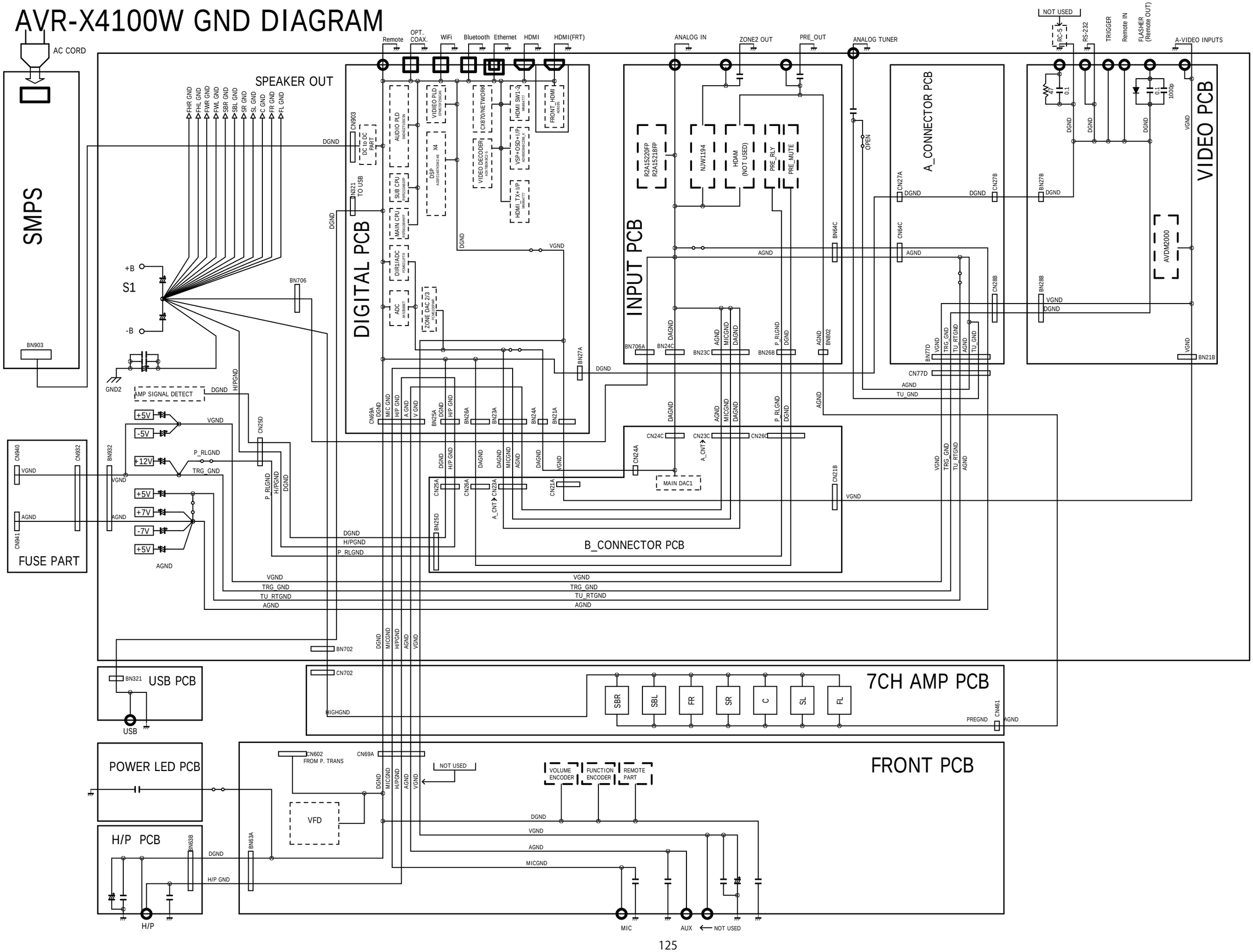
AVR-X4100
LEVEL DIAGRAM
ZONE2/ZONE3





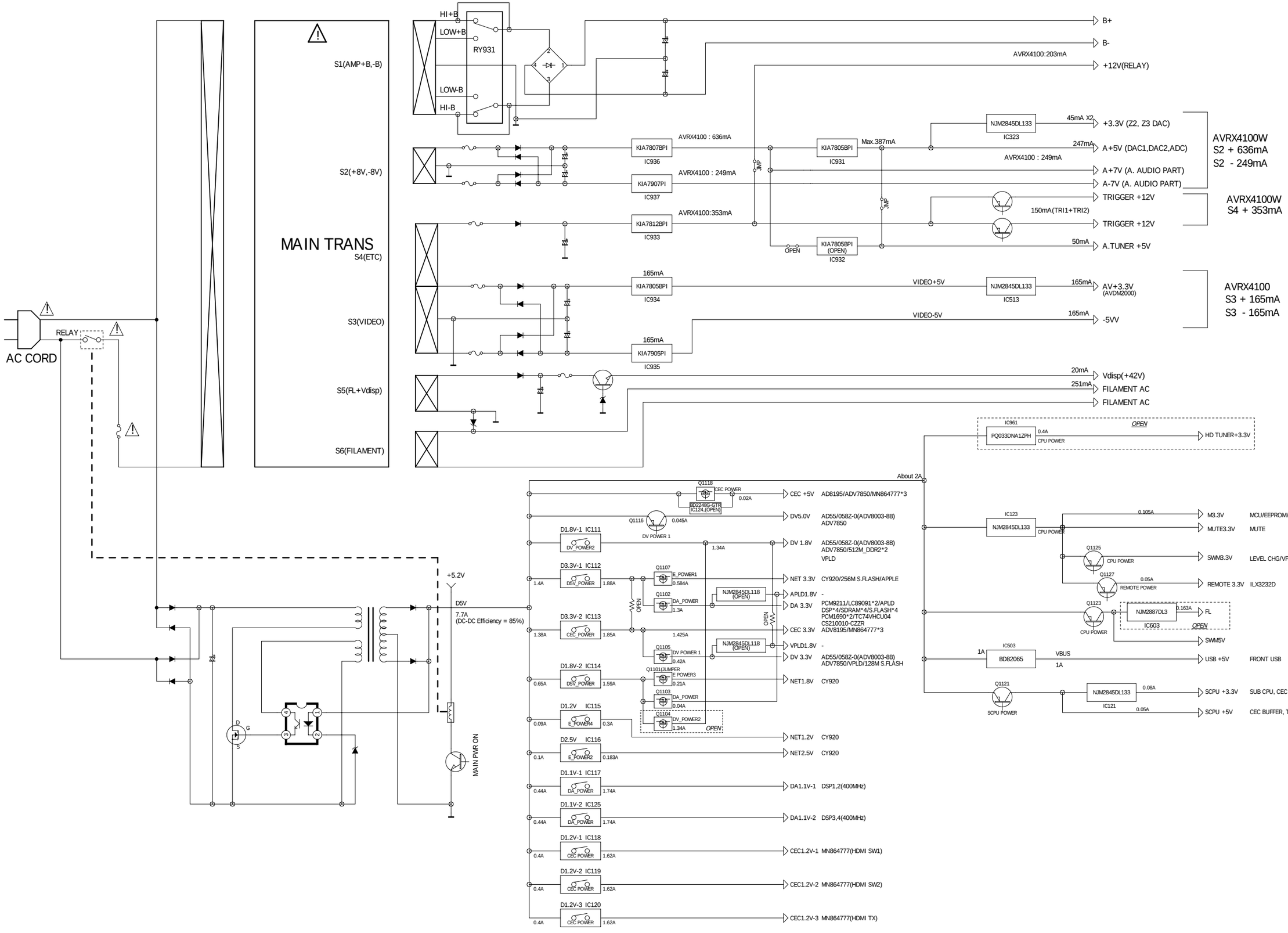
GND DIAGRAM

AVR-X4100W GND DIAGRAM



POWER DIAGRAM

AVR-X4100W POWER BLOCK DIAGRAM



WIRING DIAGRAM (AVRX4100W)

WiFi Antenna

WiFi Antenna

INLET

CN901
WAFER/2P/3.96mm

CN902
WAFER/2P/7.92mm

BN903
WIRE/5P/2.5mm
400mm,UL1569#22,105
(CWB7D0054003D)

FRONT WIDE PCB
CUP12627Z-2

CN782
WAFER/5P/2.5mm

BN782
WIRE/5P/2.5mm
(CWB1E0051003D)

CN904
WAFER/4P/2.0mm

Network PCB
CUP12721Z

CN915
WAFER/4P/2.0mm

CN914
WAFER/5P/2.0mm

CN916
WAFER/11P/2.0mm

WiFi Antenna

WiFi Antenna

DIGITAL PCB
CUP12637Z

CN431
FFC WAFER/23P
CJP23GA193ZY
(FRONT HDMI)

CN69B
FFC WAFER/40P
CJP40GA193ZY

CN903
WAFER/5P/2.5mm
(DIGITAL POWER)

CN704
WAFER/7P/2mm
(PROT.LINE)

TUNER PACK

VIDEO PCB
CUP12524Z_1

INPUT PCB
CUP12632Z-1

FRONT CNT. PCB
CUP12684

CN706
WAFER/3P/2mm

BN461
WIRE/13P/2mm

SIDE CNT.PCB
CUP12685

(PRI.)
WIRE/02P
3.96mm/160mm

(AMP PWR)
WIRE/03P/3.96mm/270mm
(S1)

BN704
WIRE/6P/2.5mm
CWB7E0064003D

BN703
WIRE/7P/2.5mm
CWB7E0071803D

BN701

BN702

BN701
WIRE/4P/2.5mm
CWB7E0042203D

BN702
WIRE/6P/2.5mm
CWB7E0052203D

BN706
WIRE/03P/2mm/100mm
(SBL/R¡¦¾¢IGHB)
(CWB7C003100HC)

BN932
3P/2.0mm/220mm
(CWB1B009220HC)

FUSE PCB
CUP12521Z-3

CN940
WAFER/5P/2.5mm
(S3/S4)

CN932
WAFER/9P/2mm

CN941
WAFER/3P/2.5mm
(S2)

SMPS PCB
CUP12641Z

MAIN TRANS

SPK, REG. PCB
CUP12627Z_A

CN971
WIRE/7P/3.96mm

FL PWR
WIRE/7P/2.5mm/250mm
(SEC 5,6)

WIRE/05P/2.5mm/270mm
(S3/S4)

WIRE/03P/2.5mm/320mm
(S2)

Bridge Diode

7907

7805

7807

7905

7805

7812

AMP PCB
CUP12625Z_1

CN704
WAFER/7P/2mm

CN702
WAFER/5P/2.5mm

CN703
WAFER/7P2.5mm

CN461
WAFER/13P/2mm

CN701
WAFER/4P2.5mm

BN710
WIRE/7P/2mm/250mm
(CWB1B007250LC)

BN921
WIRE/11p/2.0mm/350mm
UL1007#26

BT module
CUP12721-2 Z_A

CN602
WAFER/7P/2.5mm

CN69A
FFC WAFER/40P/1mm
FPC 1.0-11S-40PW

FL601

FRONT VFD PCB
CUP12622Z-1

FUNCTION ENCODER

VOLUME ENCODER

AUX

MIC

CUP12622Z-2

CN541
CUP12639Z

FRONT HDMI PCB

USB JACK PCB
CUP12523Z-2

BN321
WIRE/5P/2.0mm/500mm

HEADPHONE PCB

CUP12622Z-3

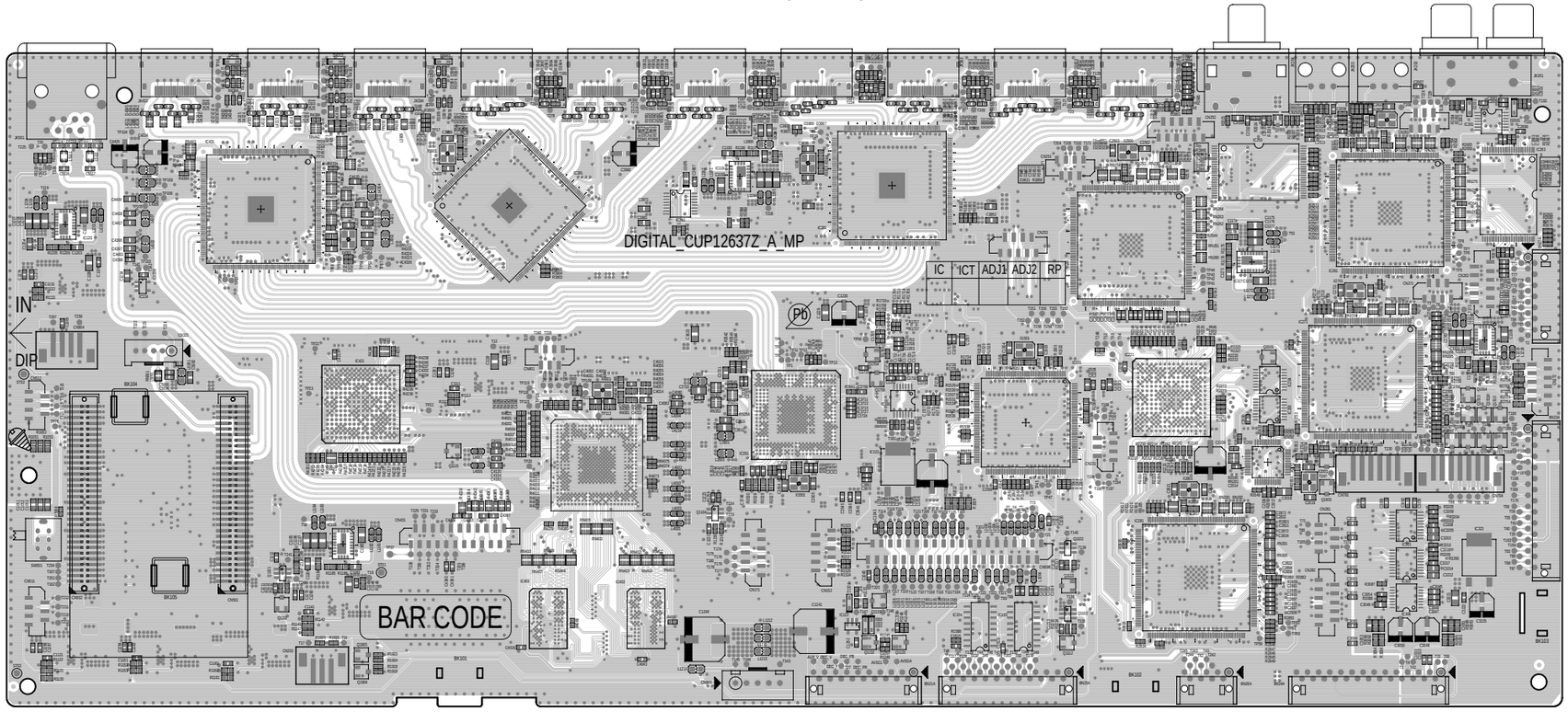
CN605A
WAFER Socket 5p/2mm

CN605B
WAFER Plug 5p/2mm

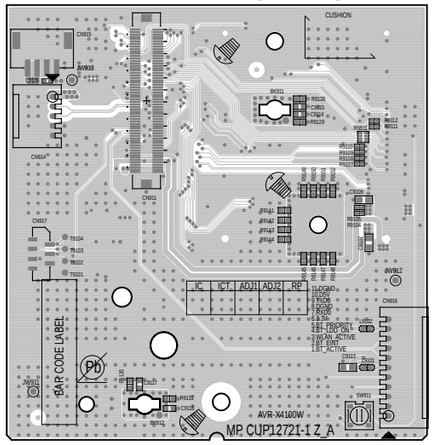
PRINTED WIRING BOARDS

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

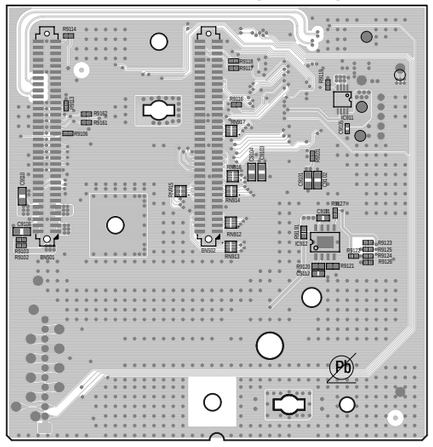
DIGITAL (A SIDE)



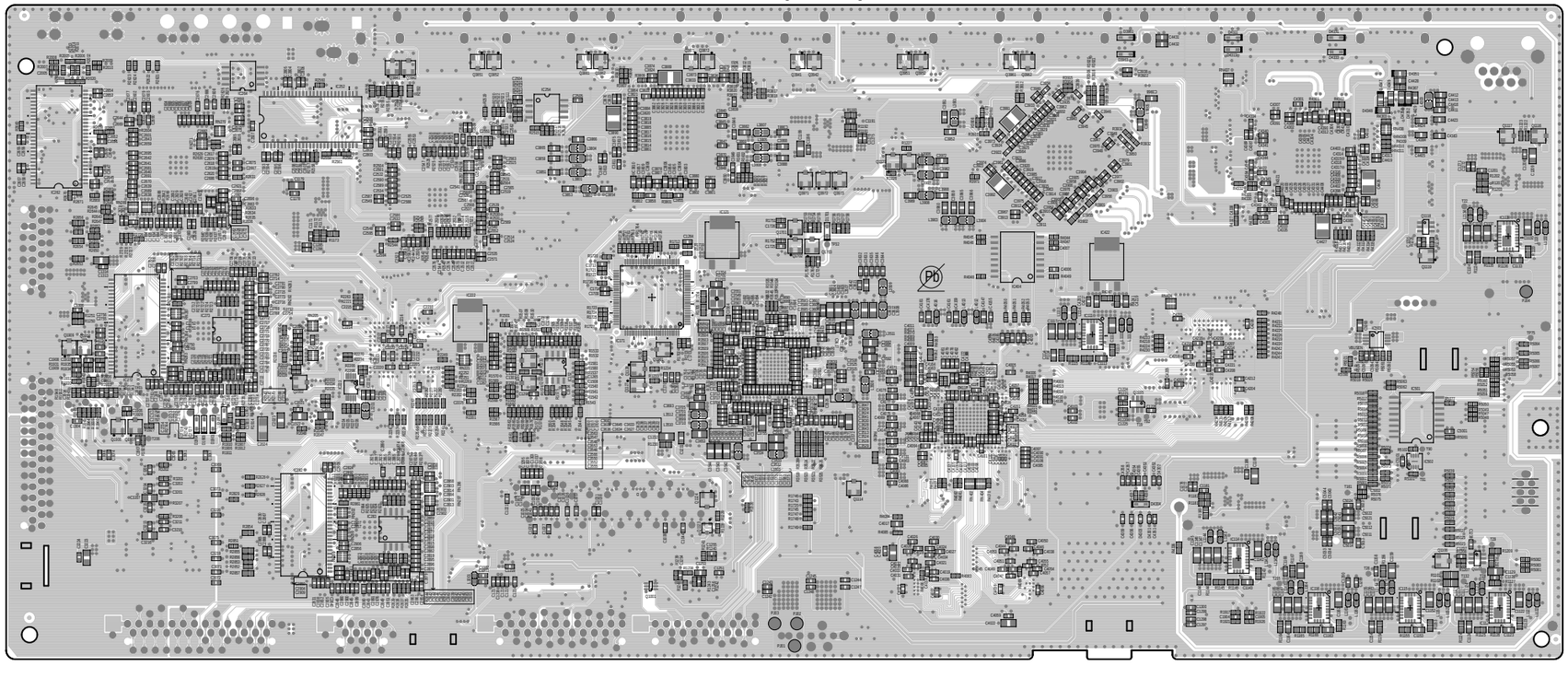
CX870MIDDLE (A SIDE)



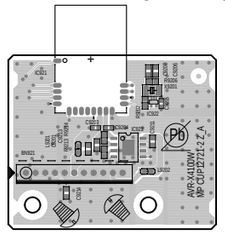
CX870MIDDLE (B SIDE)



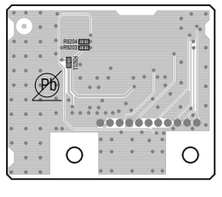
DIGITAL (B SIDE)



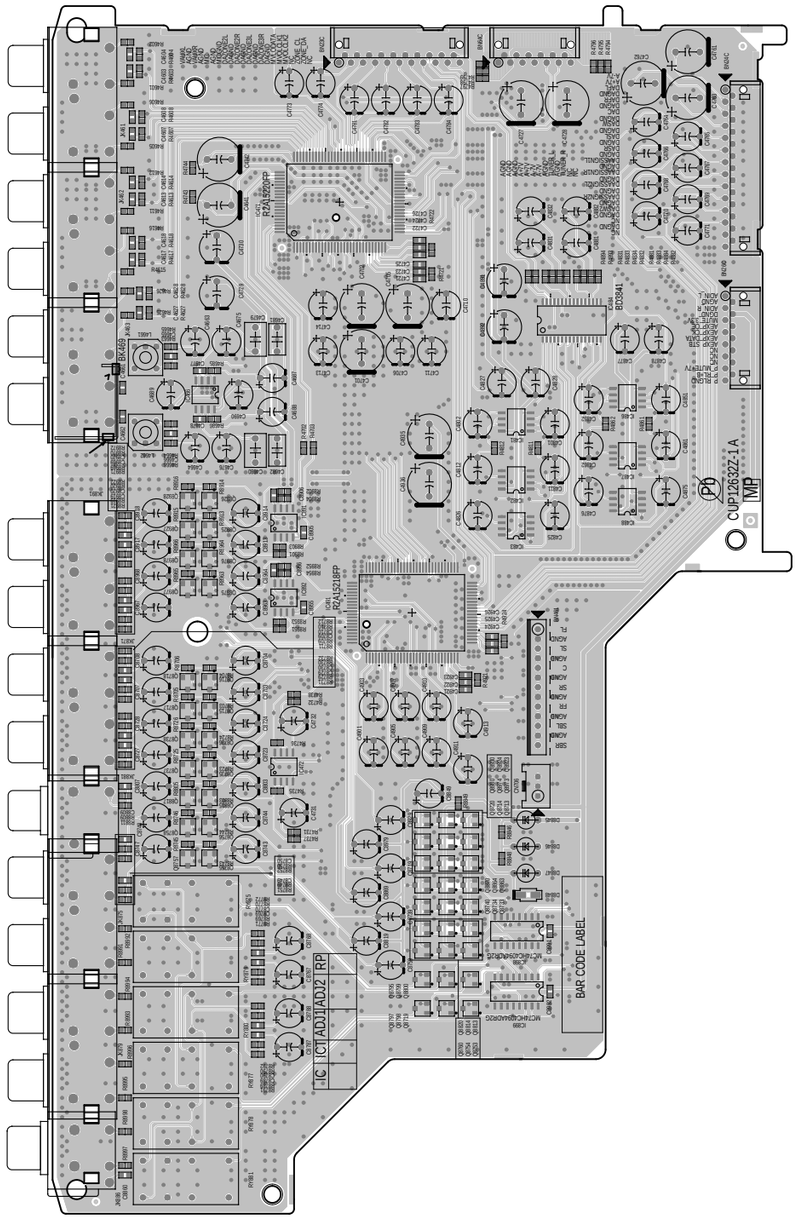
BLUETOOTH (A SIDE)



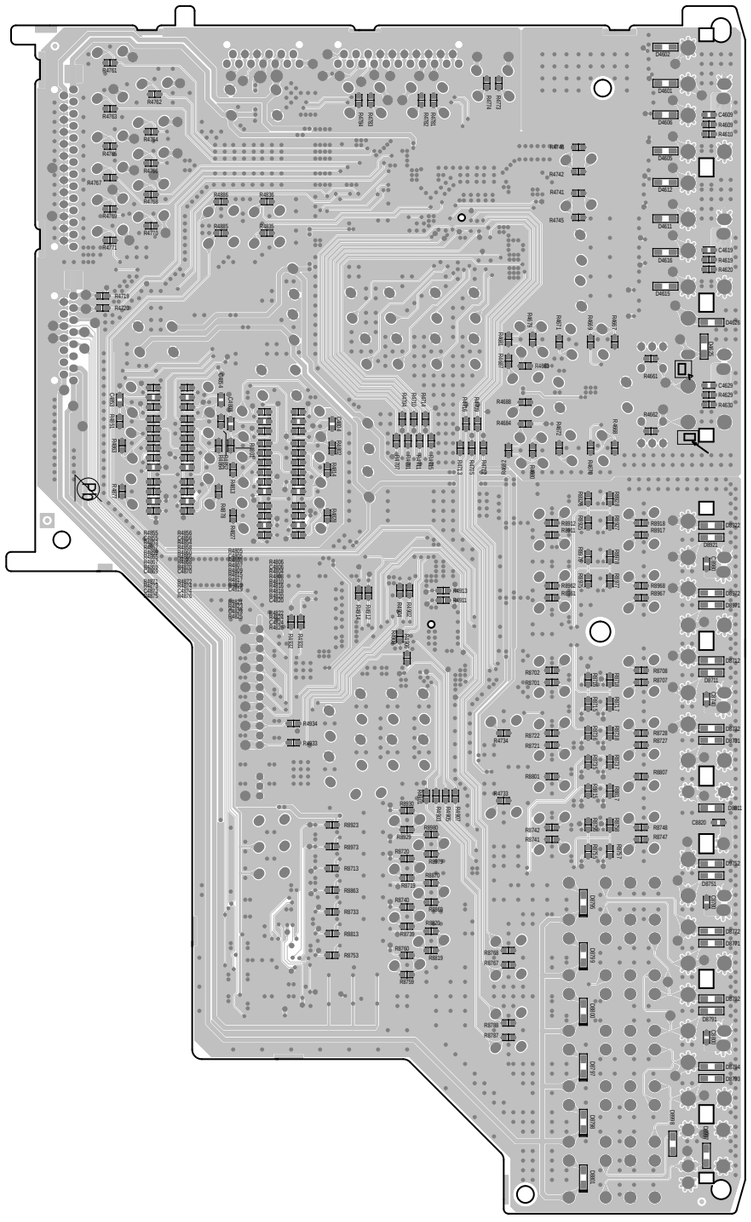
BLUETOOTH (B SIDE)



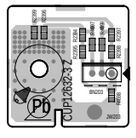
INPUT (A SIDE)



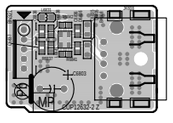
INPUT (B SIDE)



Trans. Temp_detect (A SIDE)

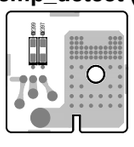


USB (A SIDE)

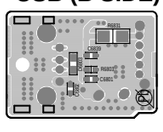


MAIN HS Temp_detect (A SIDE)

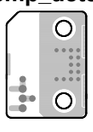
Trans. Temp_detect (B SIDE)



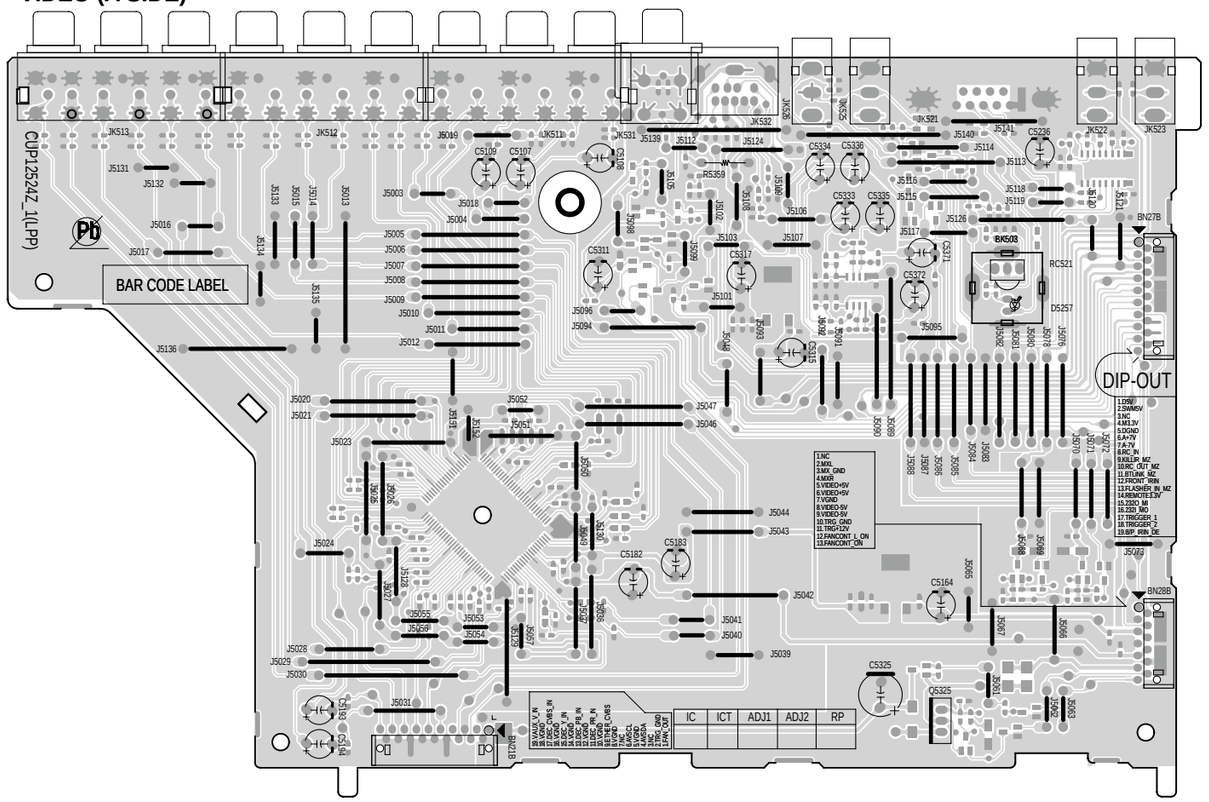
USB (B SIDE)



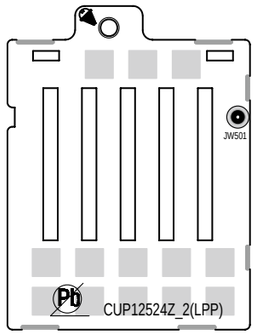
MAIN HS Temp_detect (B SIDE)



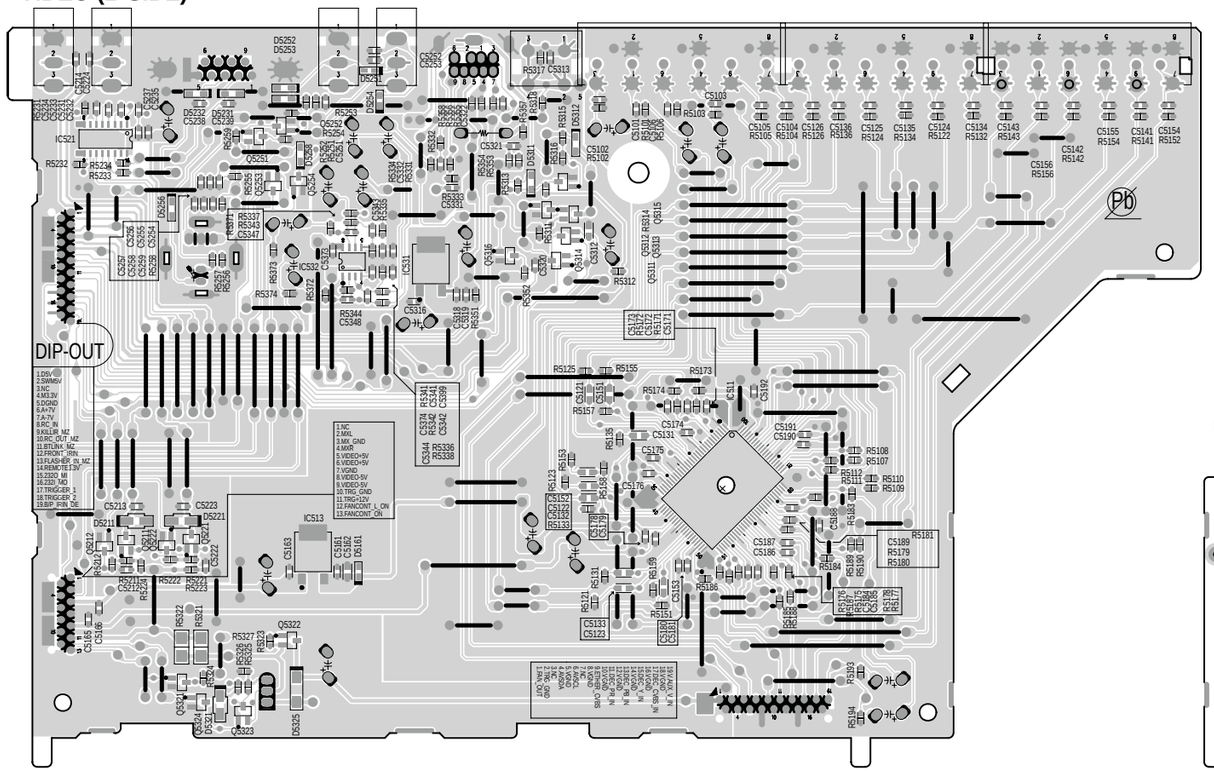
VIDEO (A SIDE)



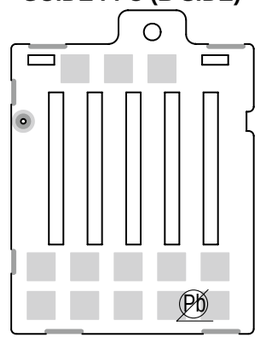
GUIDE FFC (A SIDE)



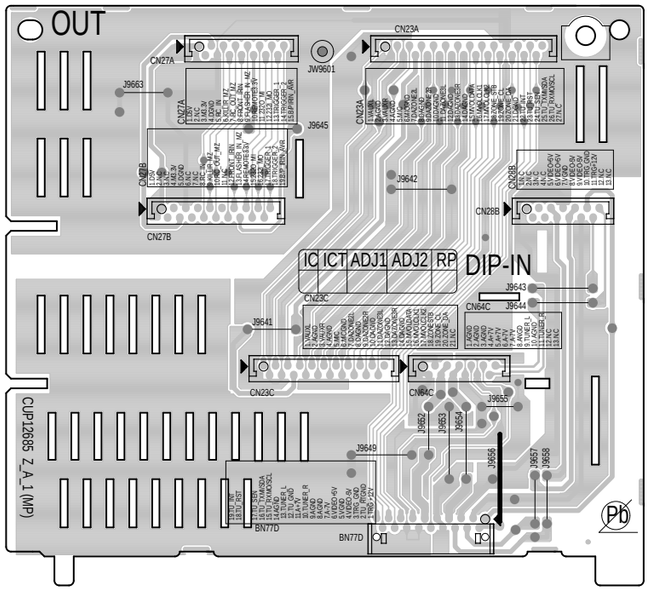
VIDEO (B SIDE)



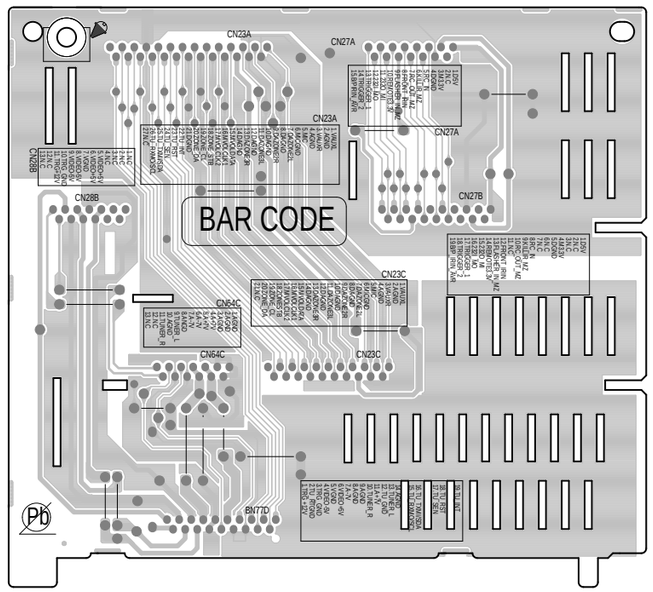
GUIDE FFC (B SIDE)



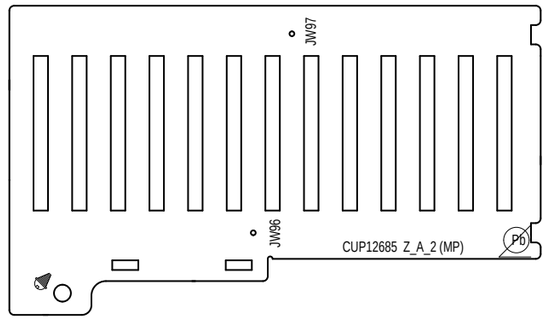
SIDE CNT (A SIDE)



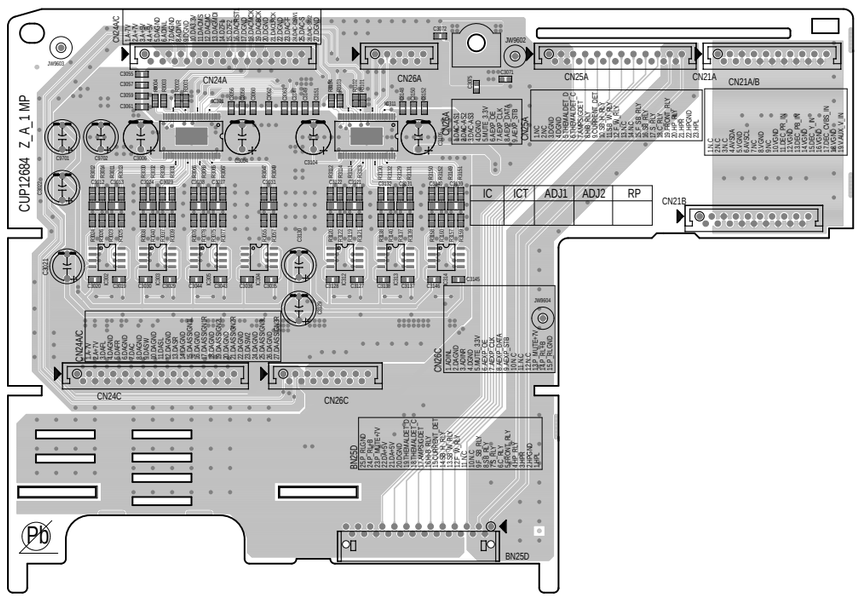
SIDE CNT (B SIDE)



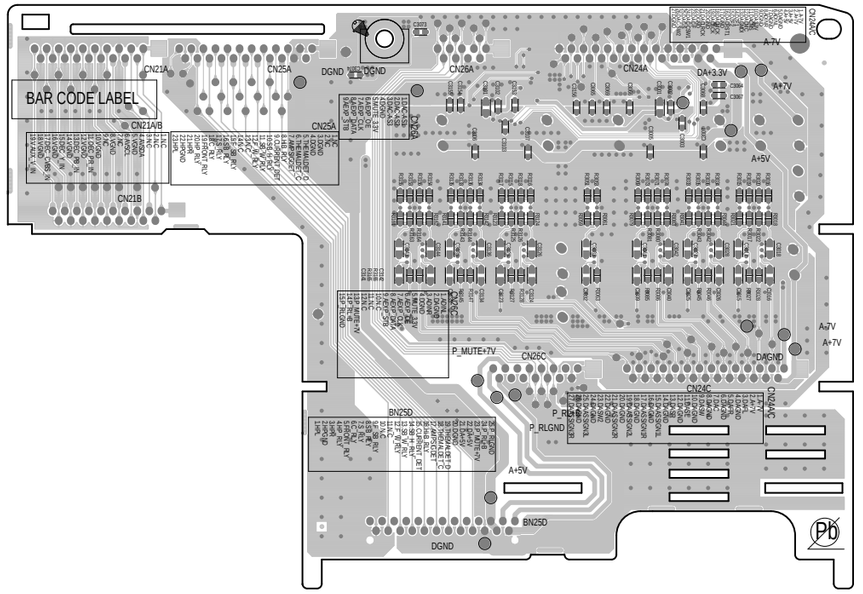
GUIDE FFC (A SIDE)



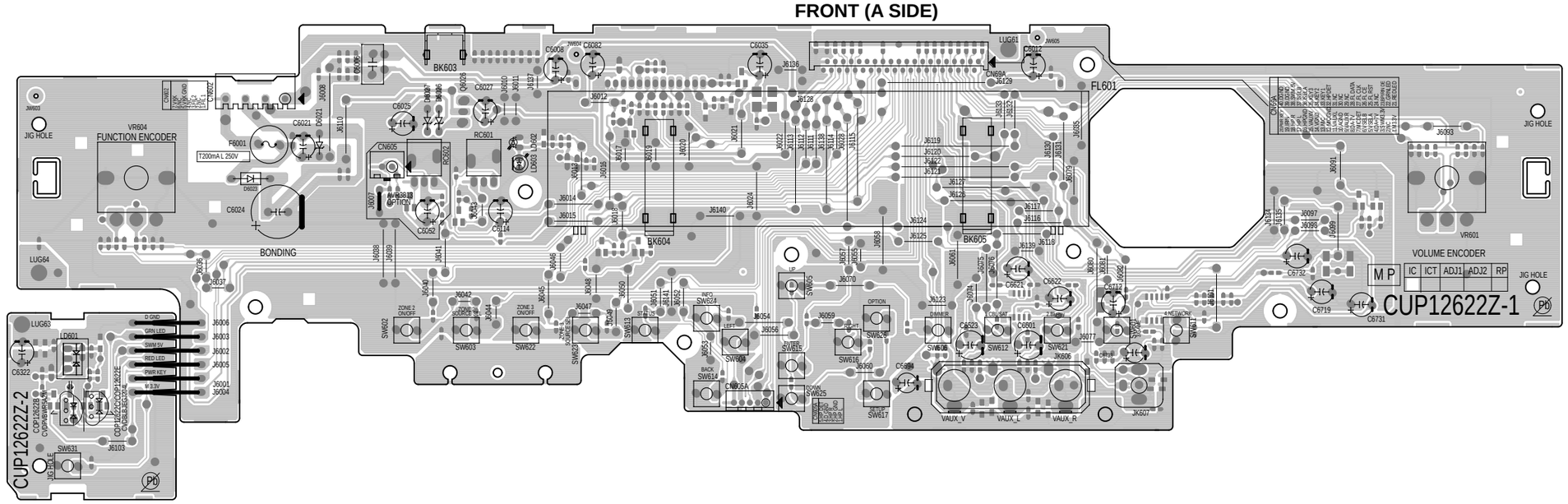
FRONT CNT (A SIDE)



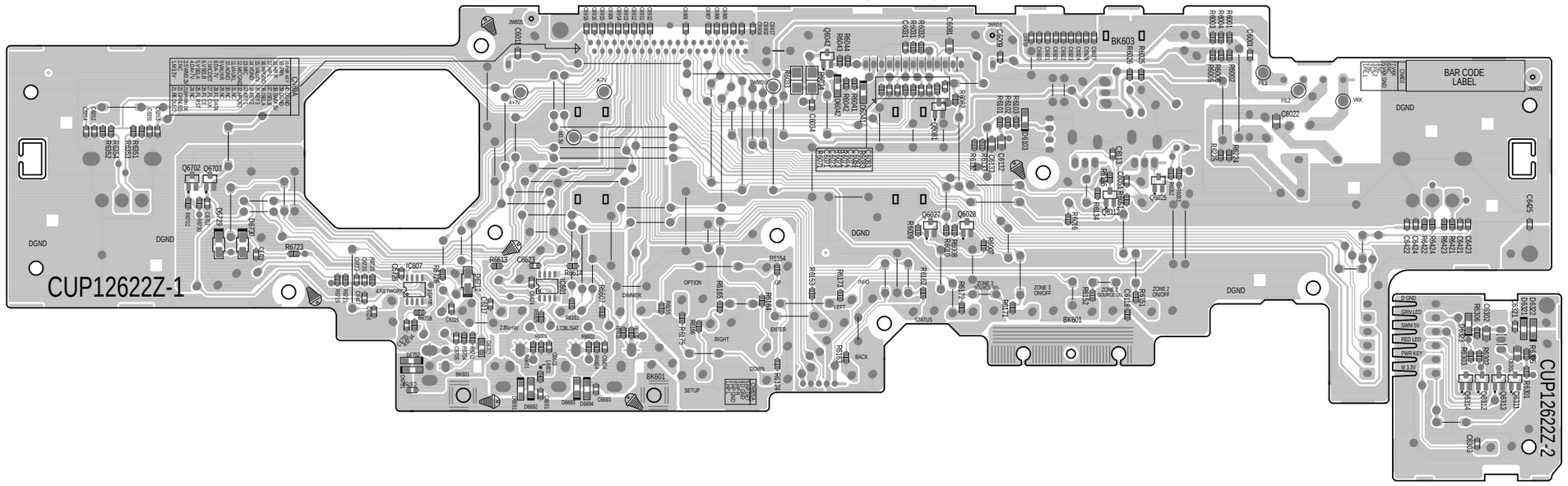
FRONT CNT (B SIDE)



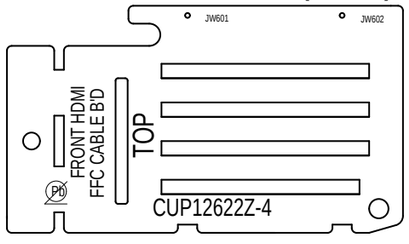
FRONT (A SIDE)



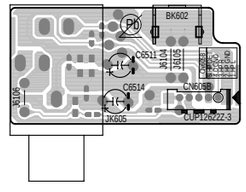
FRONT (B SIDE)



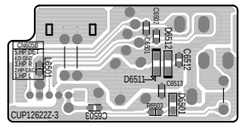
FRONT HDMI FFC CABLE (A SIDE)



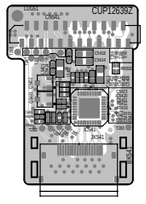
HEAD PHONE (A SIDE)



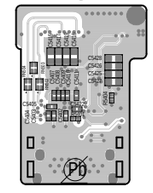
HEAD PHONE (B SIDE)



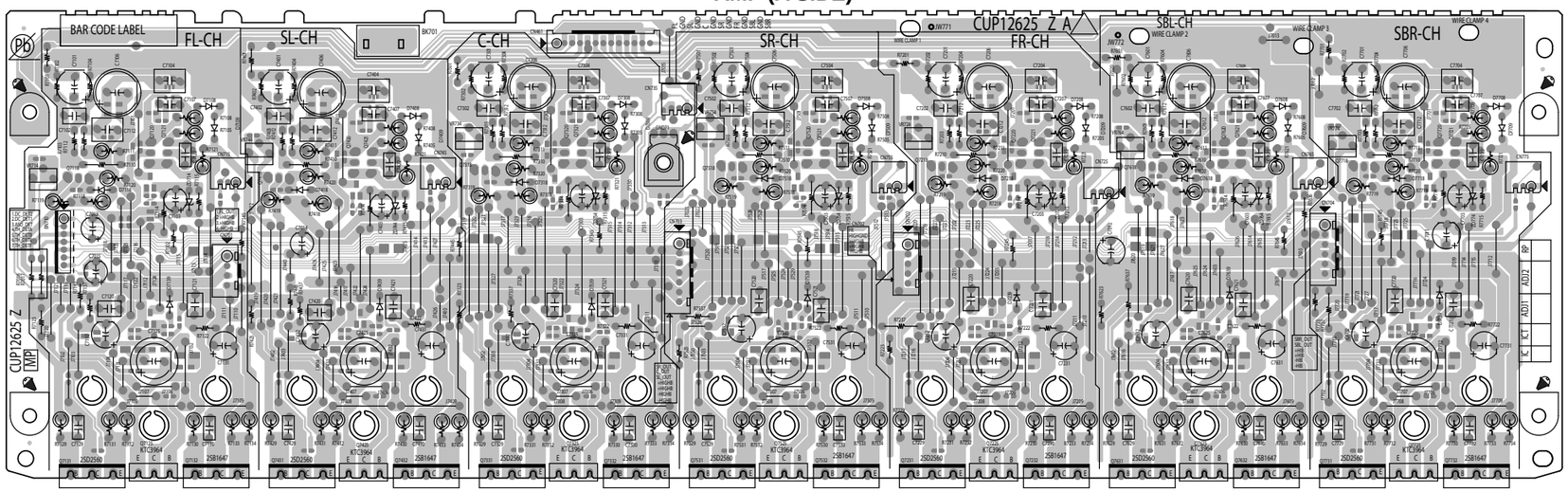
FHDMI (A SIDE)



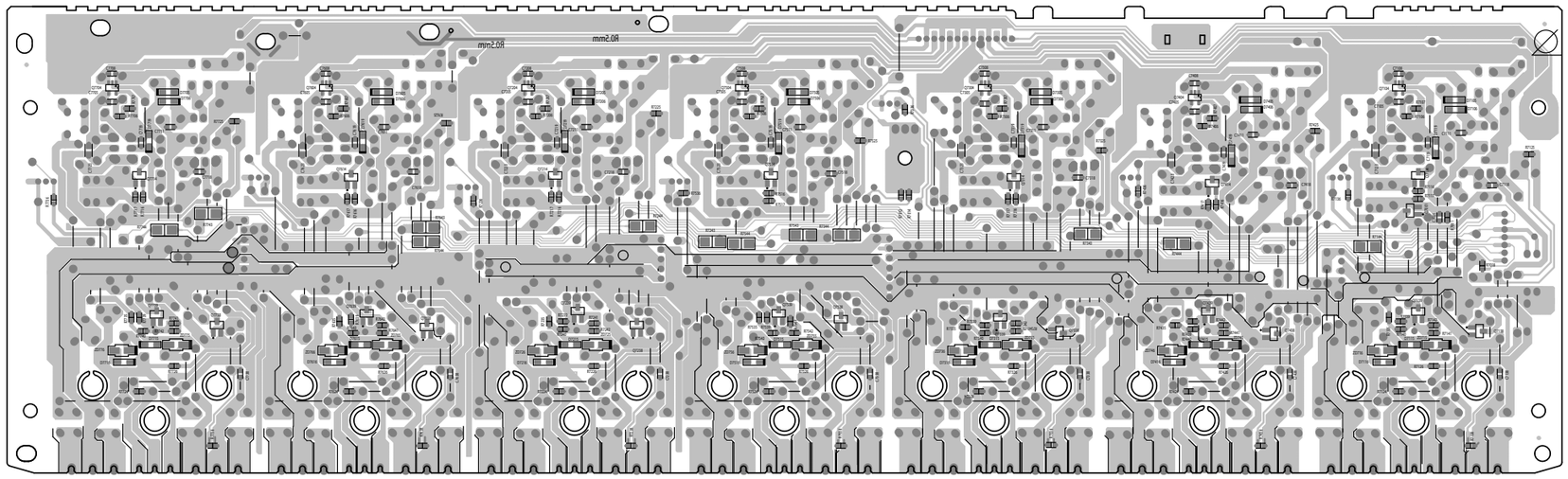
FHDMI (B SIDE)



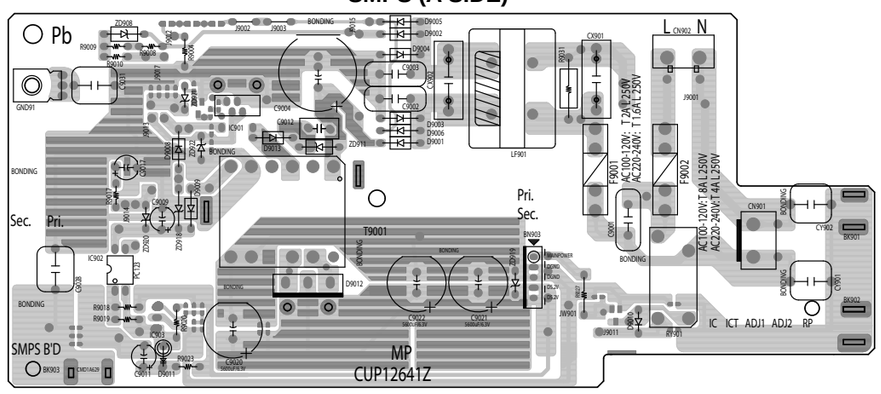
AMP (A SIDE)



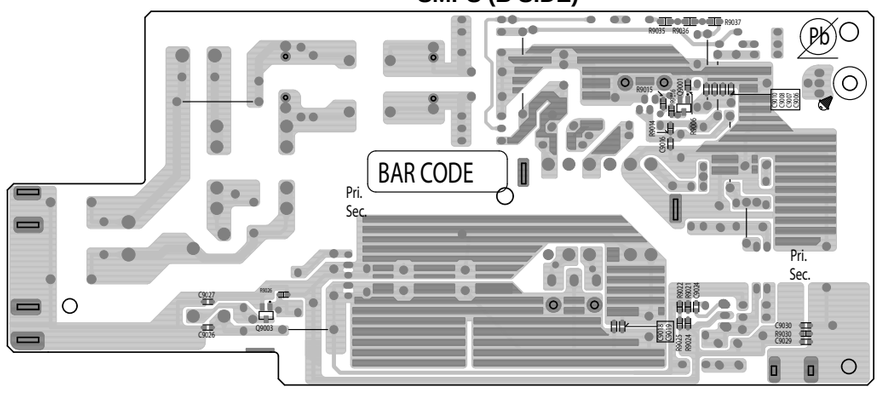
AMP (B SIDE)



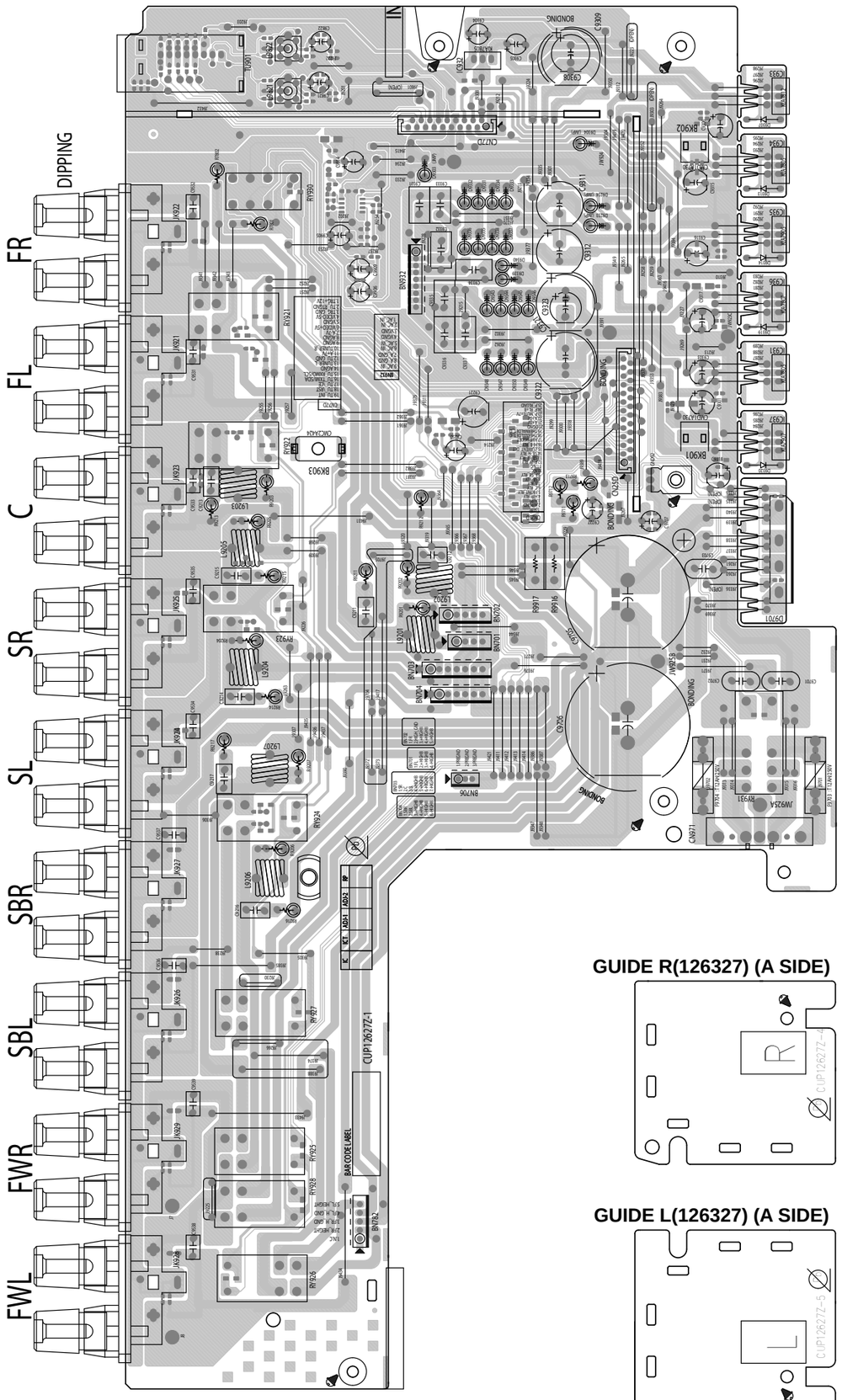
SMPS (A SIDE)



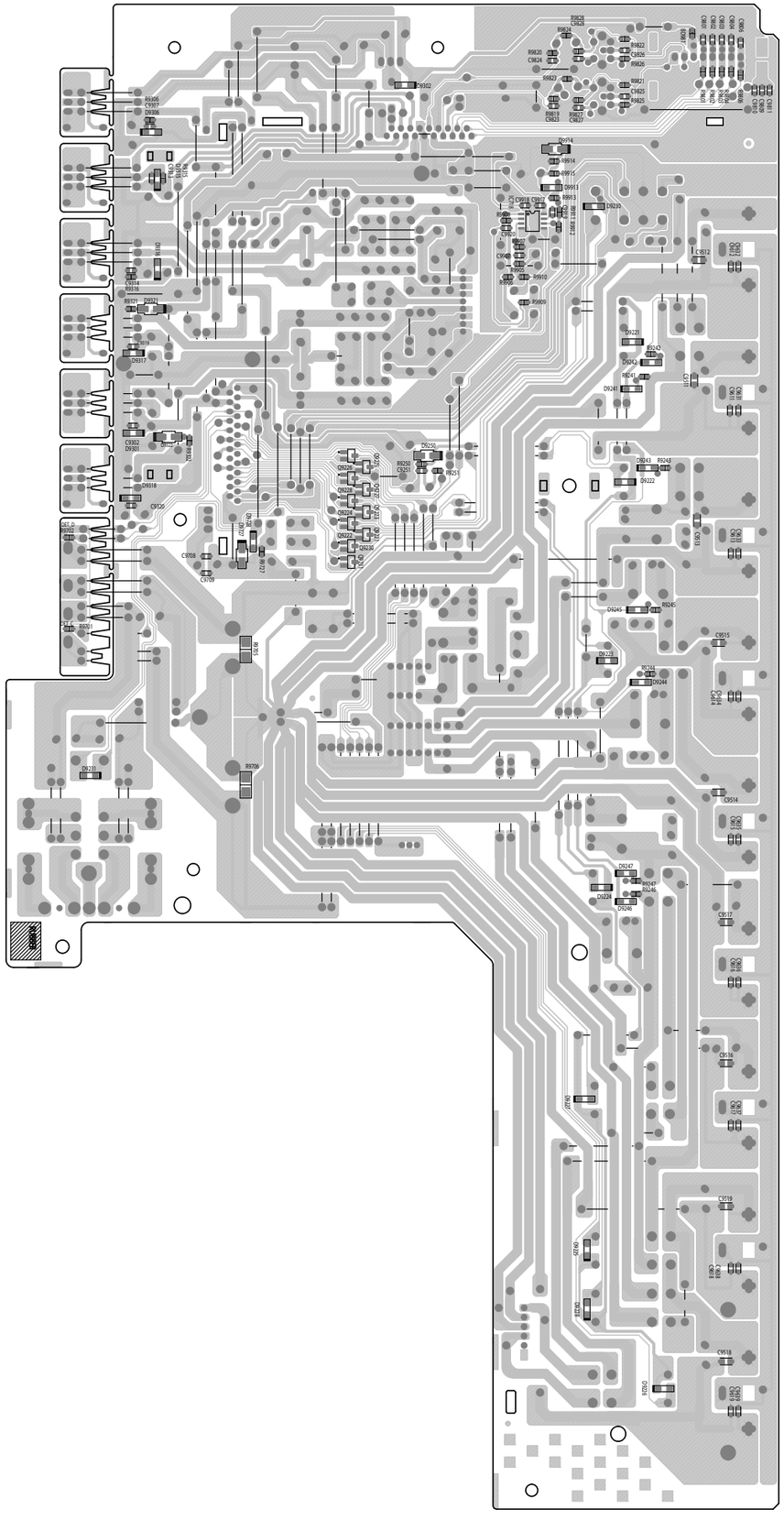
SMPS (B SIDE)



SPK (A SIDE)

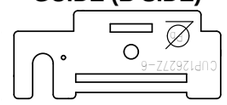


SPK (B SIDE)

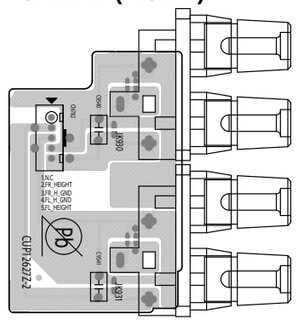


GUIDE (A SIDE)

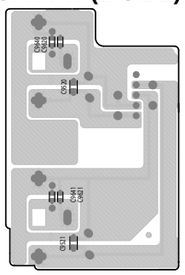
GUIDE (B SIDE)



SPK FW (A SIDE)

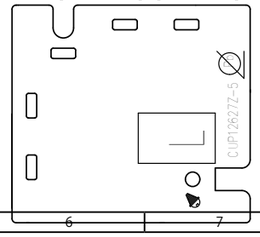


SPK FW (B SIDE)

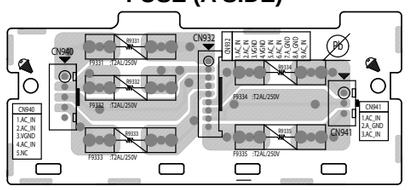


GUIDE R(126327) (A SIDE)

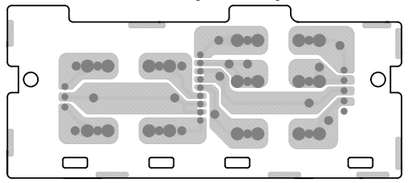
GUIDE L(126327) (A SIDE)



FUSE (A SIDE)



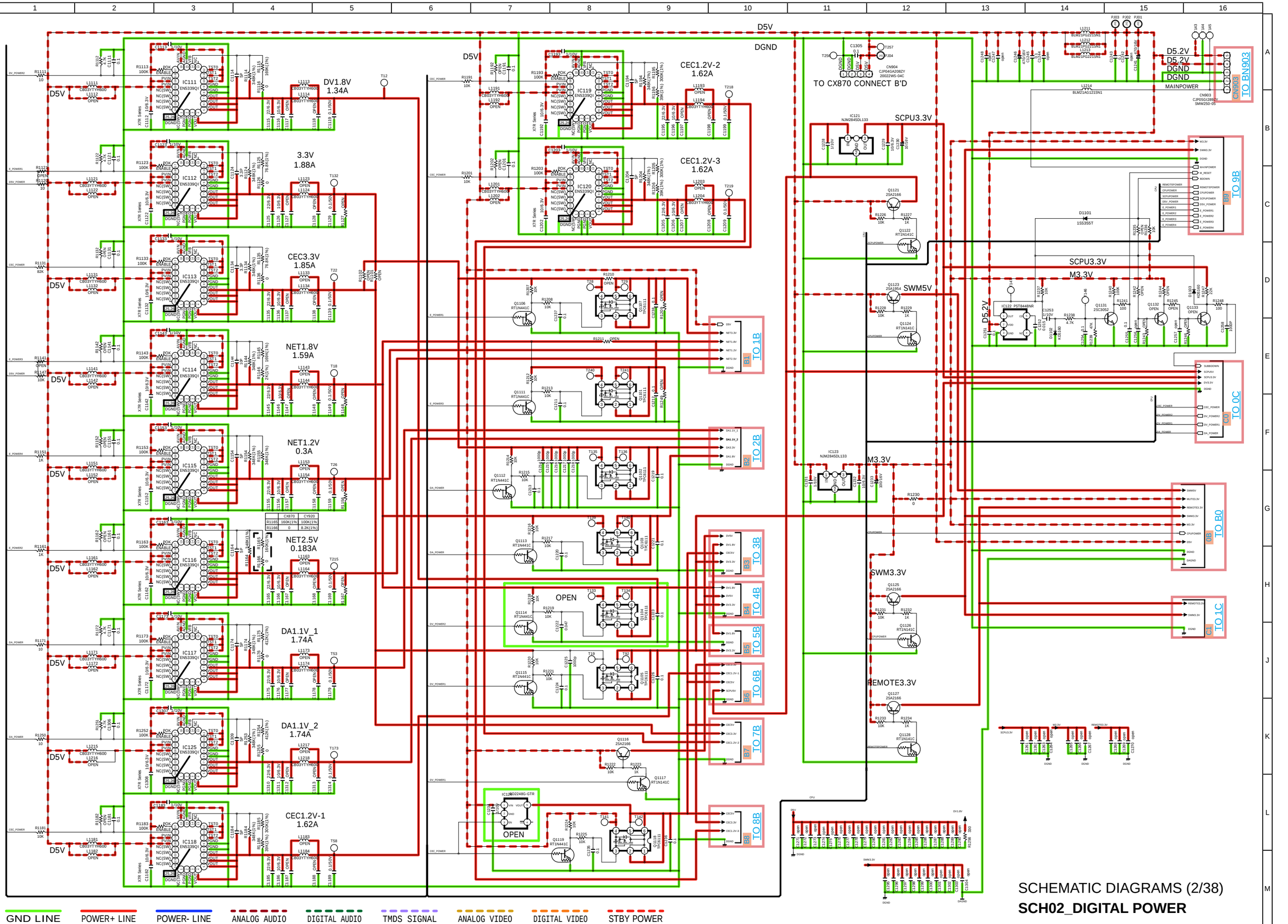
FUSE (B SIDE)



SCHEMATIC DIAGRAMS (1/38)

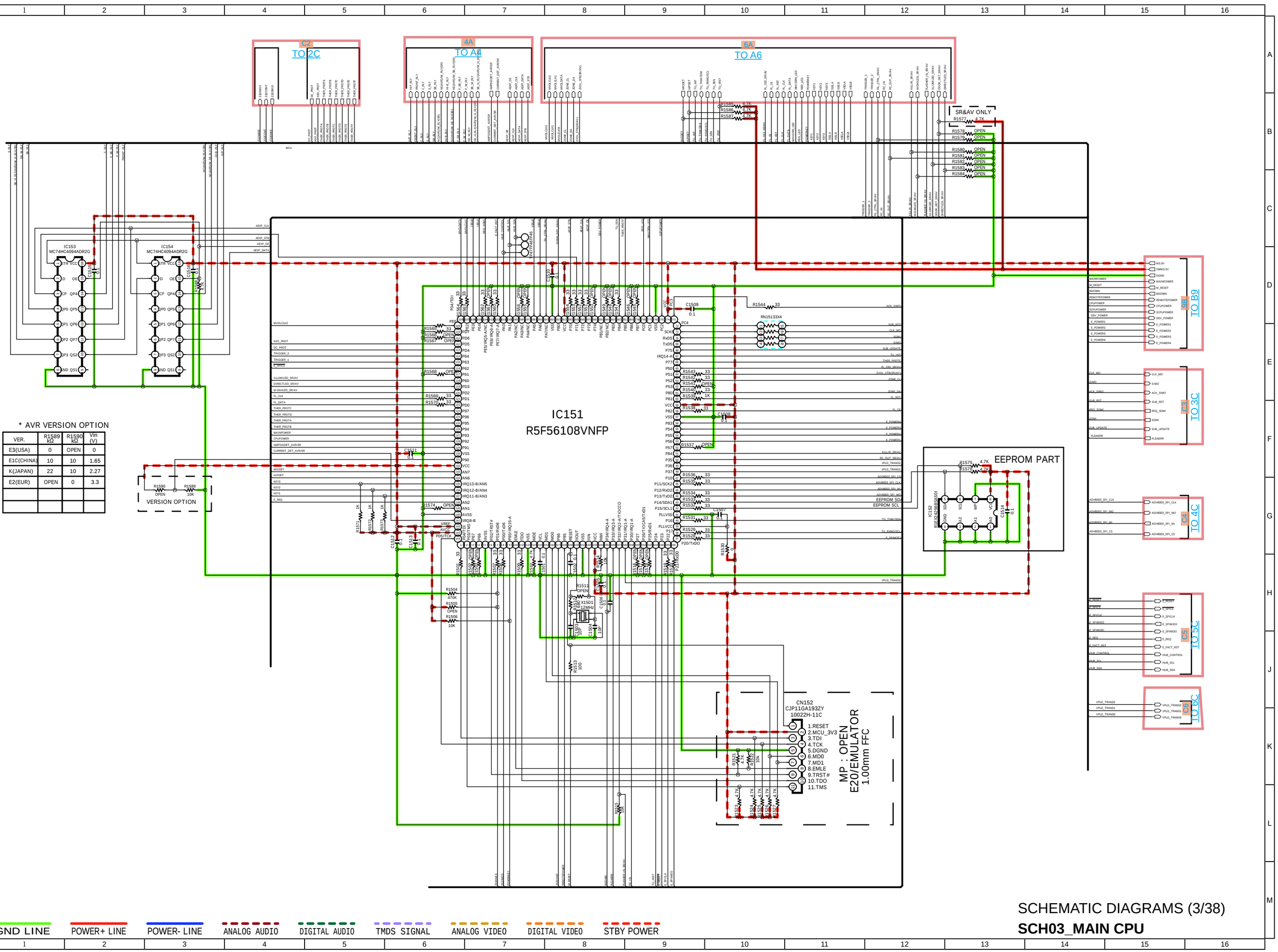
SCH01_DIGITAL CONNECT

GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER



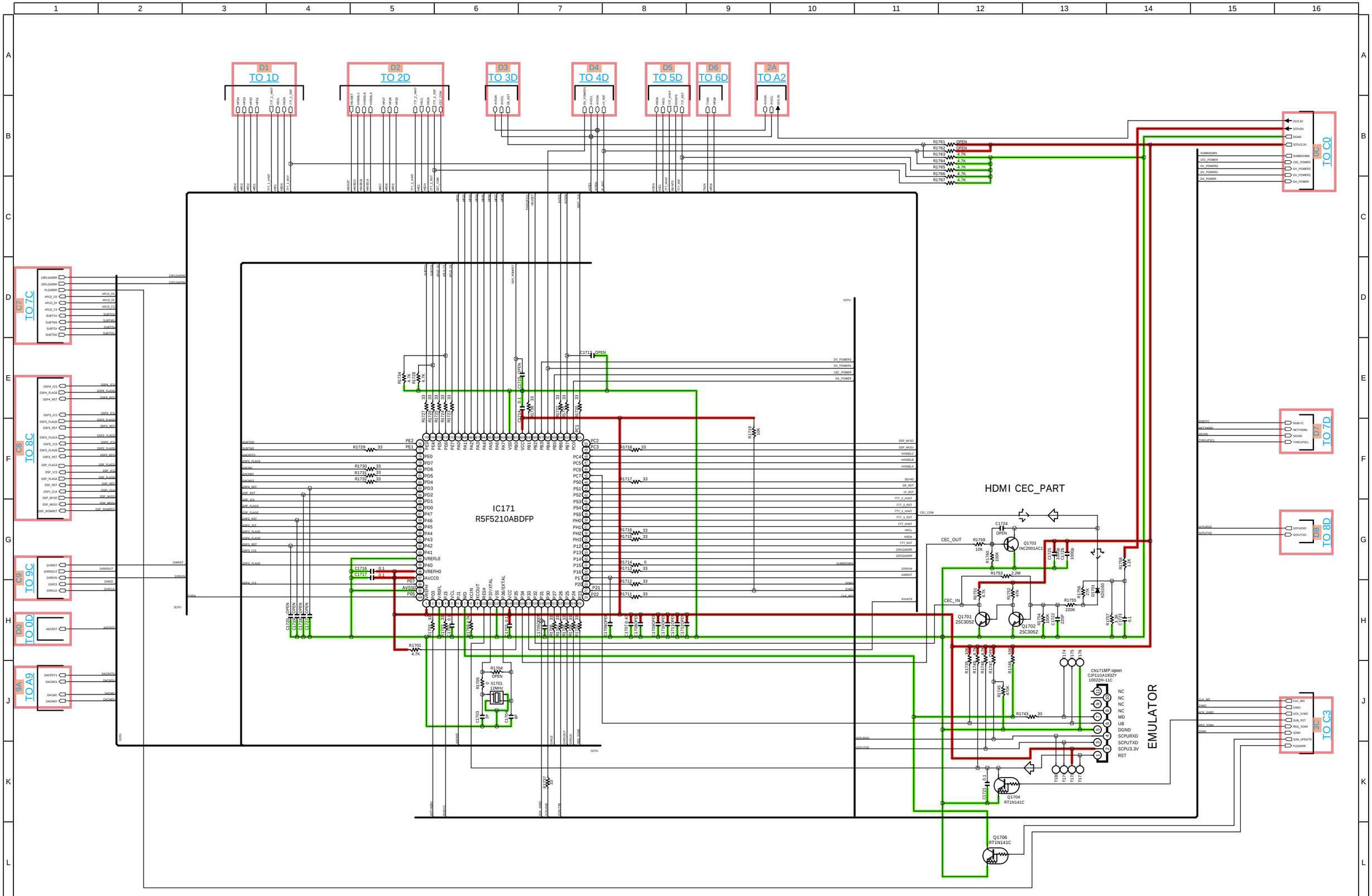
SCHEMATIC DIAGRAMS (2/38)

SCH02_DIGITAL POWER



SCHEMATIC DIAGRAMS (3/38)

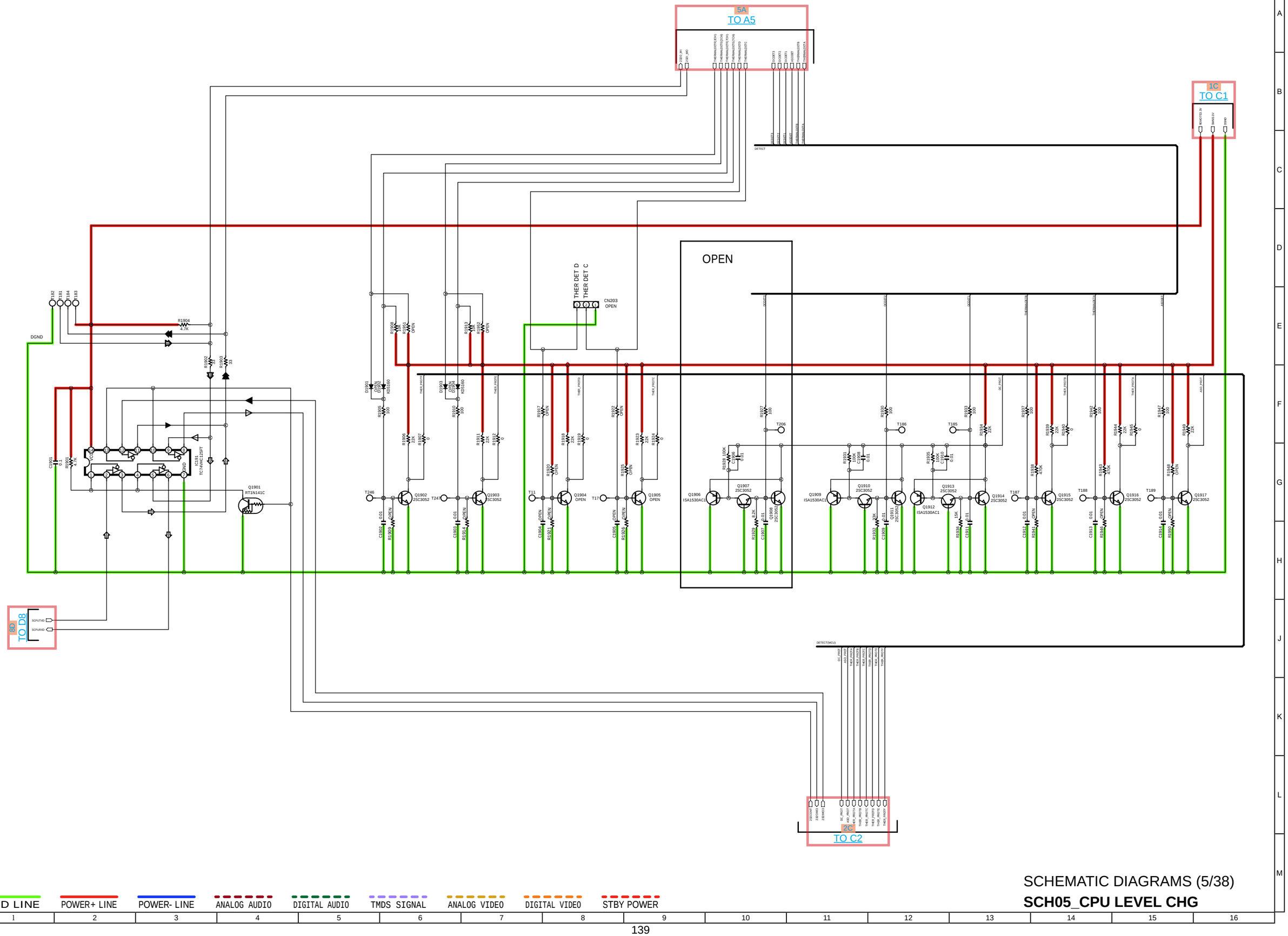
SCH03_MAIN CPU



GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

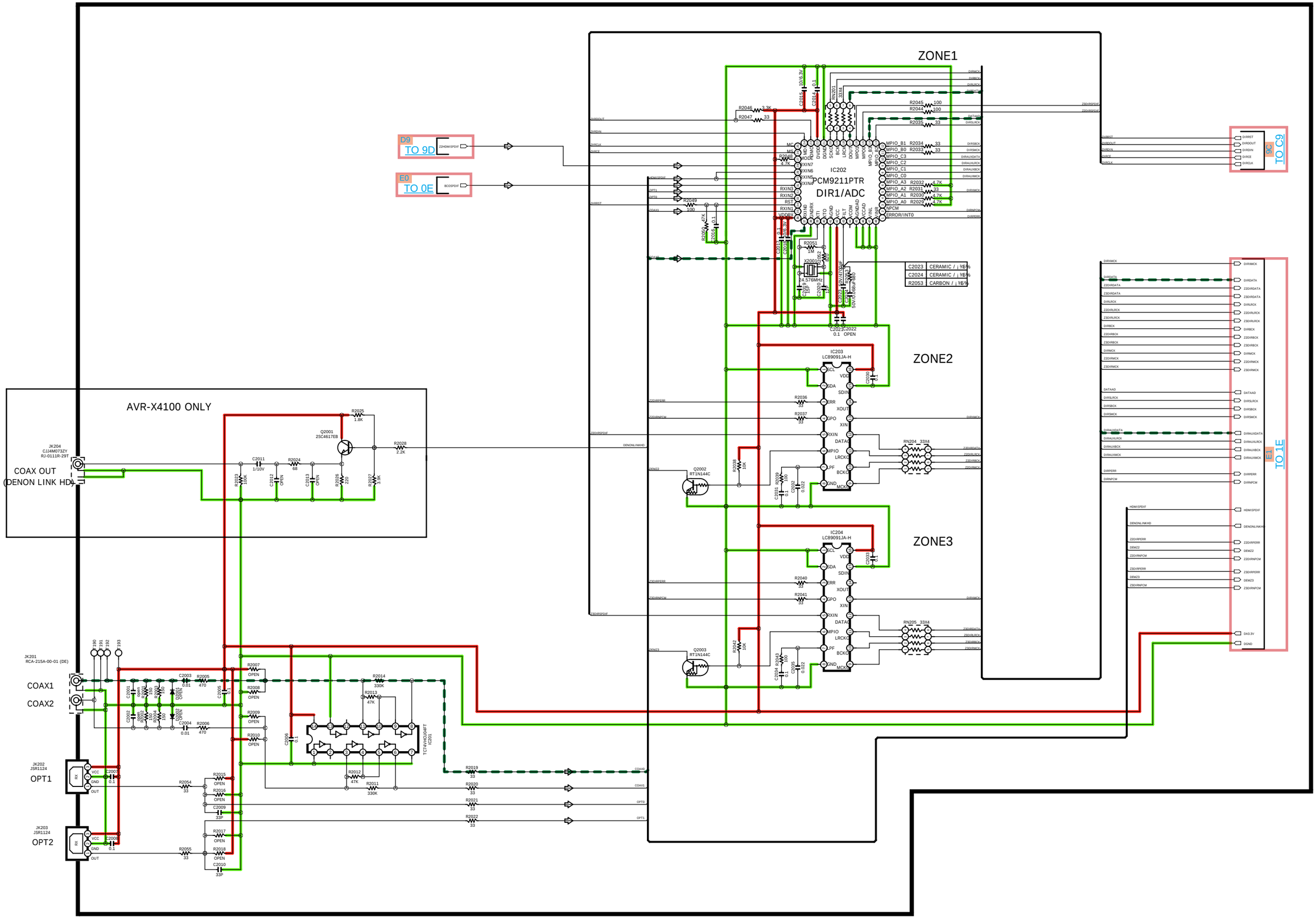
SCHEMATIC DIAGRAMS (4/38)

SCH04_SUB CPU



SCHEMATIC DIAGRAMS (5/38)

SCH05_CPU LEVEL CHG


ZONE1
ZONE2
ZONE3
AVR-X4100 ONLY
IC202
PCM9211PTR
DIR1/ADC
IC203
LC89091JA-H
IC204
LC89091JA-H
D9
TO 9D
E0
TO 0E
9C
TO C9
E1
TO 1E
JK204
CJJ4M073ZY
RJ-0111R-29T
COAX OUT
(DENON LINK HD)
JK201
RCA-215A-00-01 (DE)
COAX1
COAX2
JK202
JSR1124
OPT1
JK203
JSR1124
OPT2
Q2001
2SC4617EB
Q2002
RT1N144C
Q2003
RT1N144C
TC74VHC04FT
C2023 CERAMIC / ±5%
C2024 CERAMIC / ±5%
R2053 CARBON / ±5%
SCHEMATIC DIAGRAMS (6/38)
SCH06_DIR
GND LINE
POWER+ LINE
POWER- LINE
ANALOG AUDIO
DIGITAL AUDIO
TMDS SIGNAL
ANALOG VIDEO
DIGITAL VIDEO
STBY POWER

IC221
5M570ZF256C5N

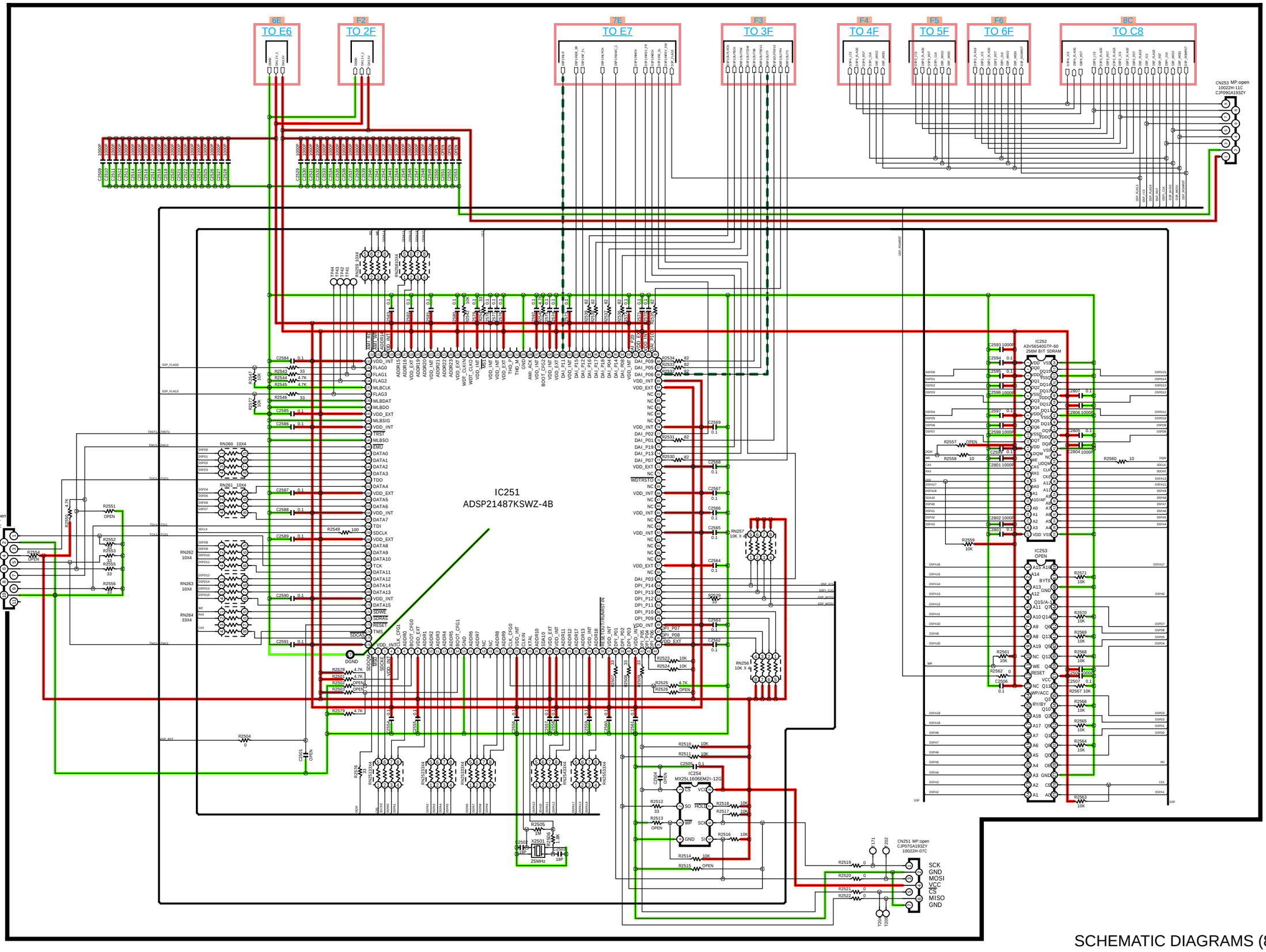
IC222
OPEN

IC223
CS210010-CZZR

EMULATOR
CN221 MP:open
10022H-07C

SCHEMATIC DIAGRAMS (7/38)
SCH07_AUDIO PLD

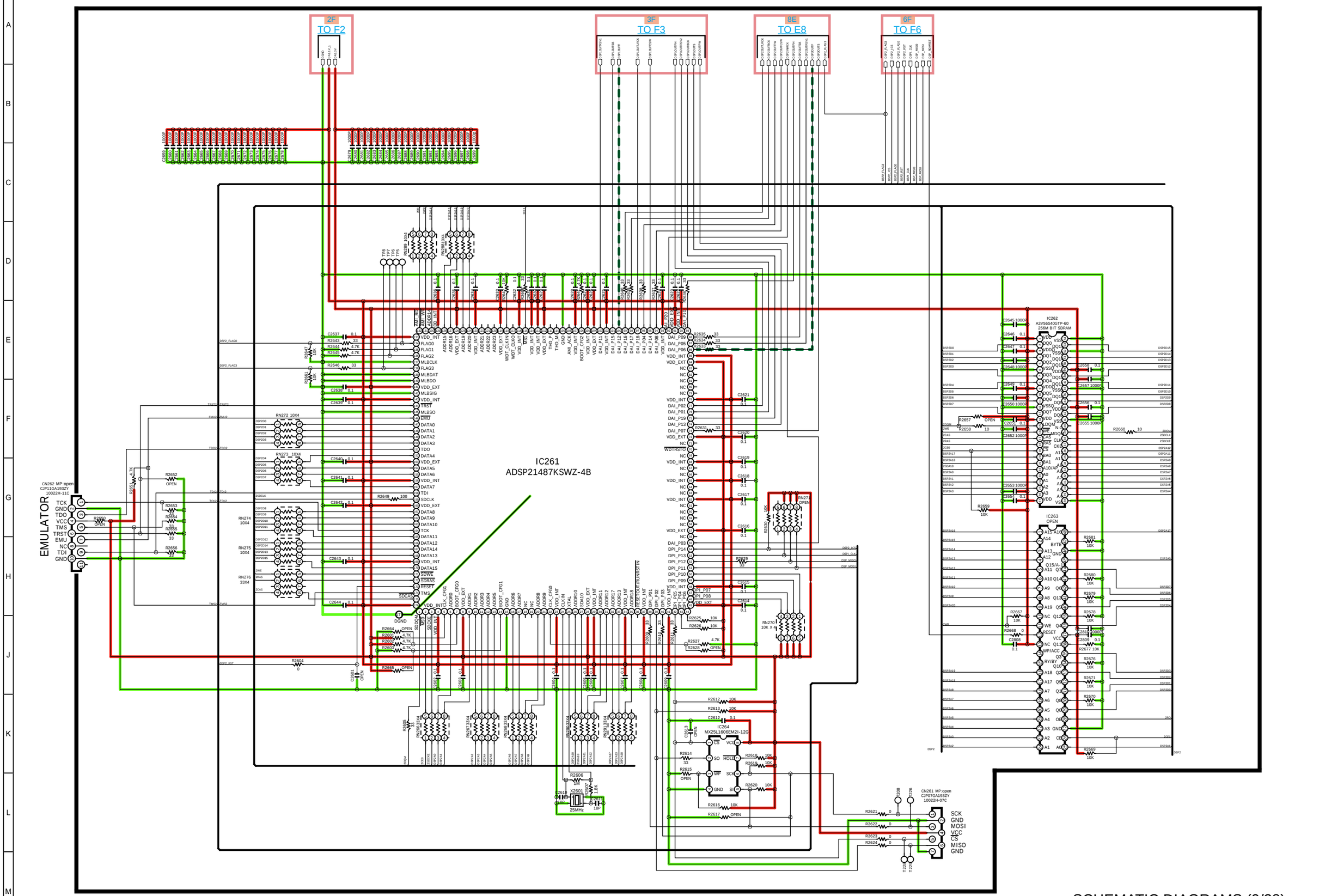
GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER



SCHEMATIC DIAGRAMS (8/38)

SCH08_DSP1

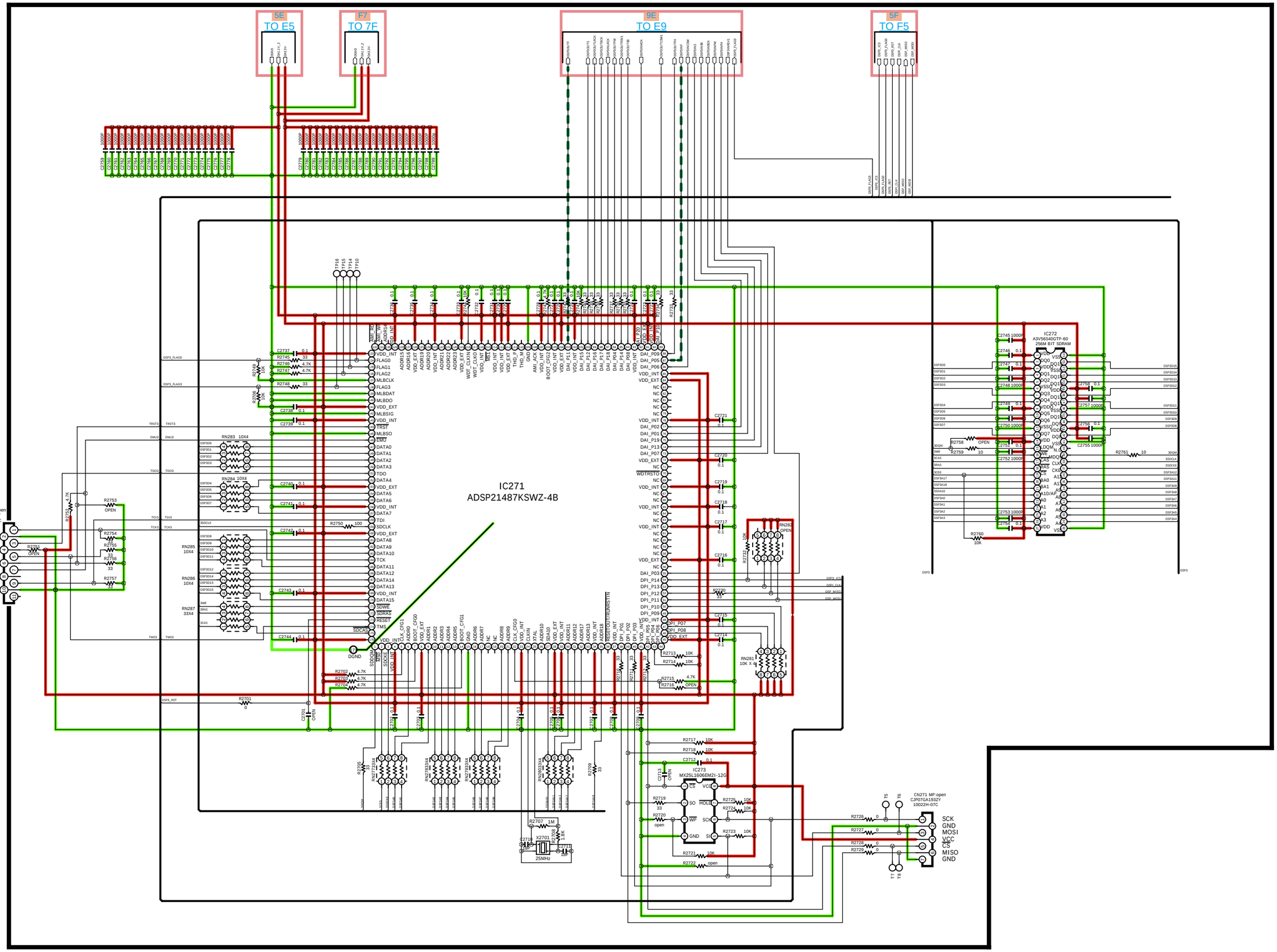
GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER



GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (9/38)

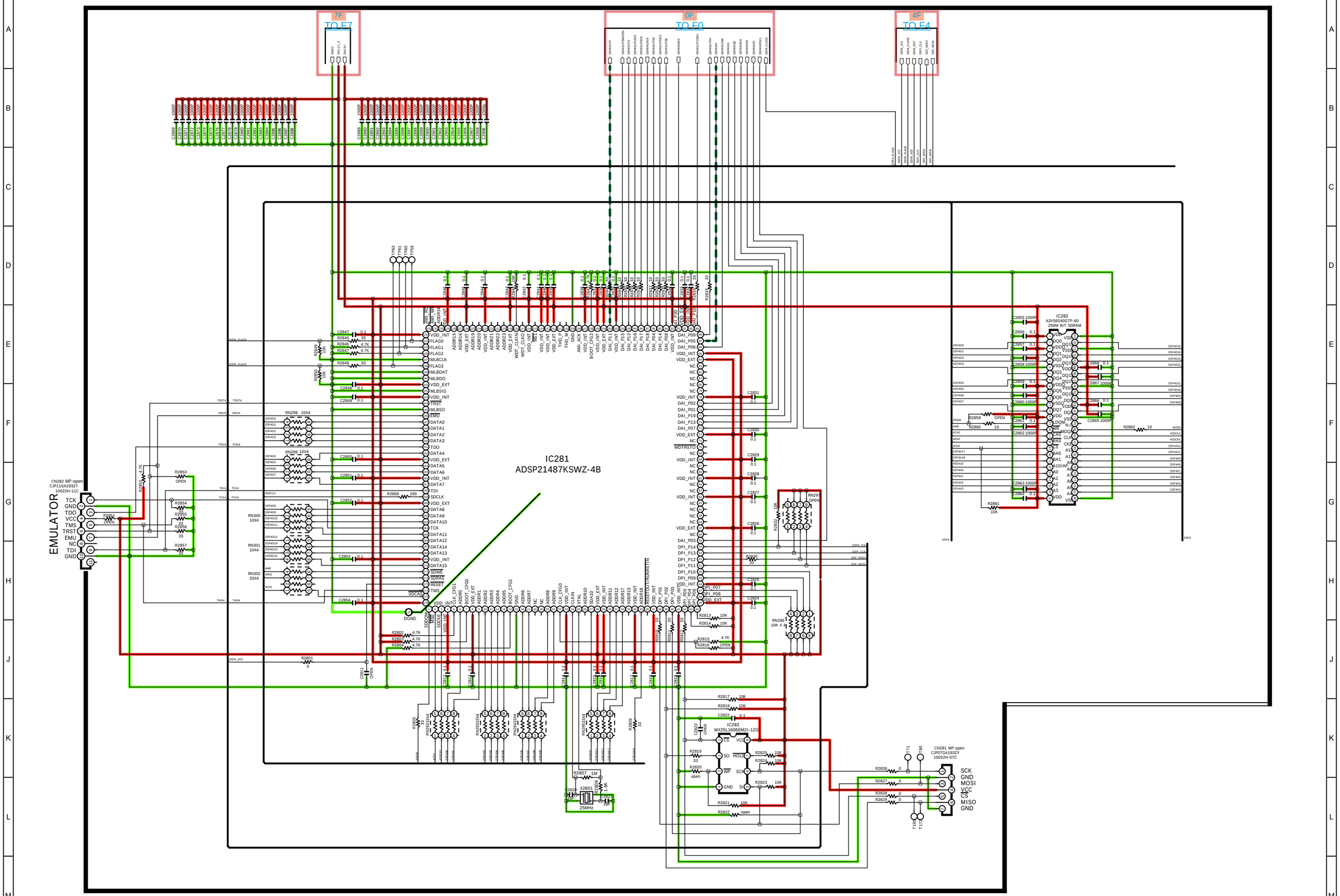
SCH09_DSP2



GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (10/38)

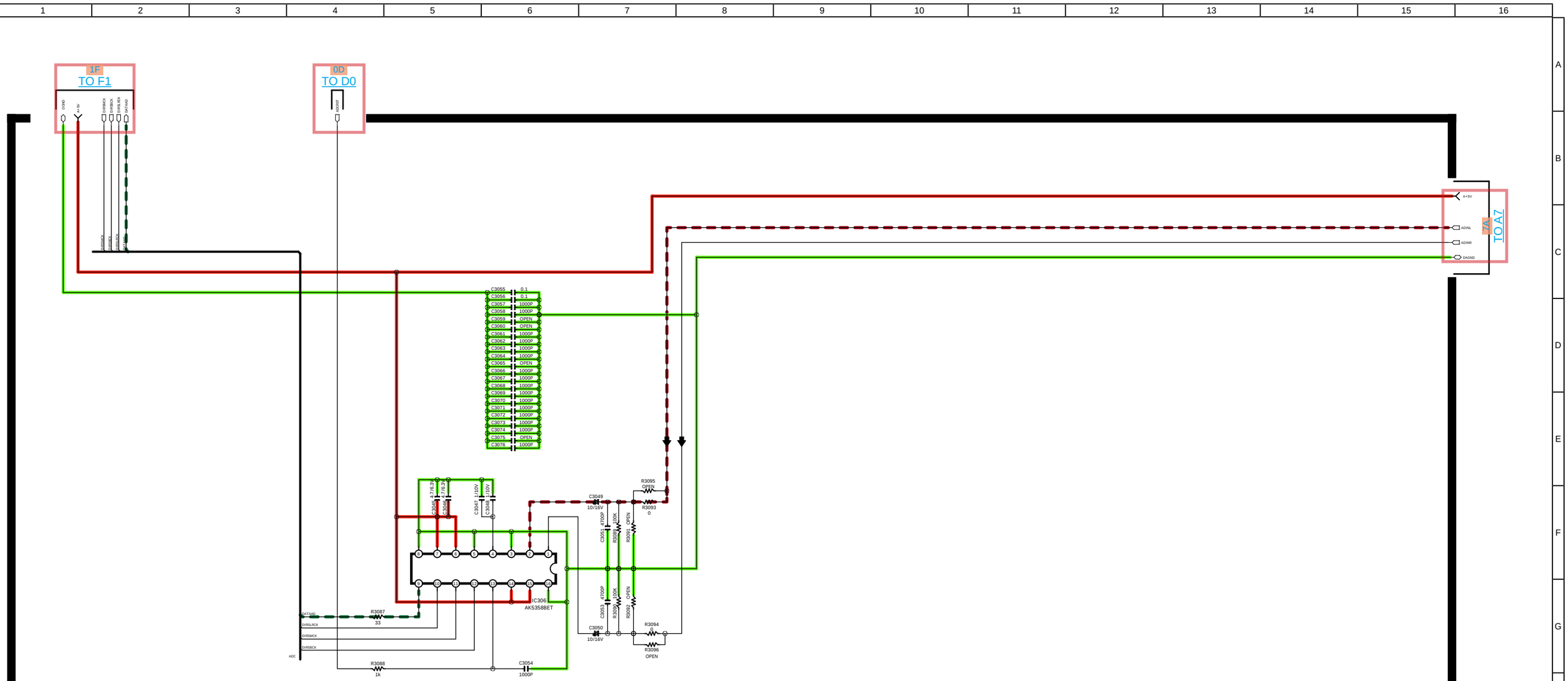
SCH10_DSP3



SCHEMATIC DIAGRAMS (11/38)

SCH11_DSP4

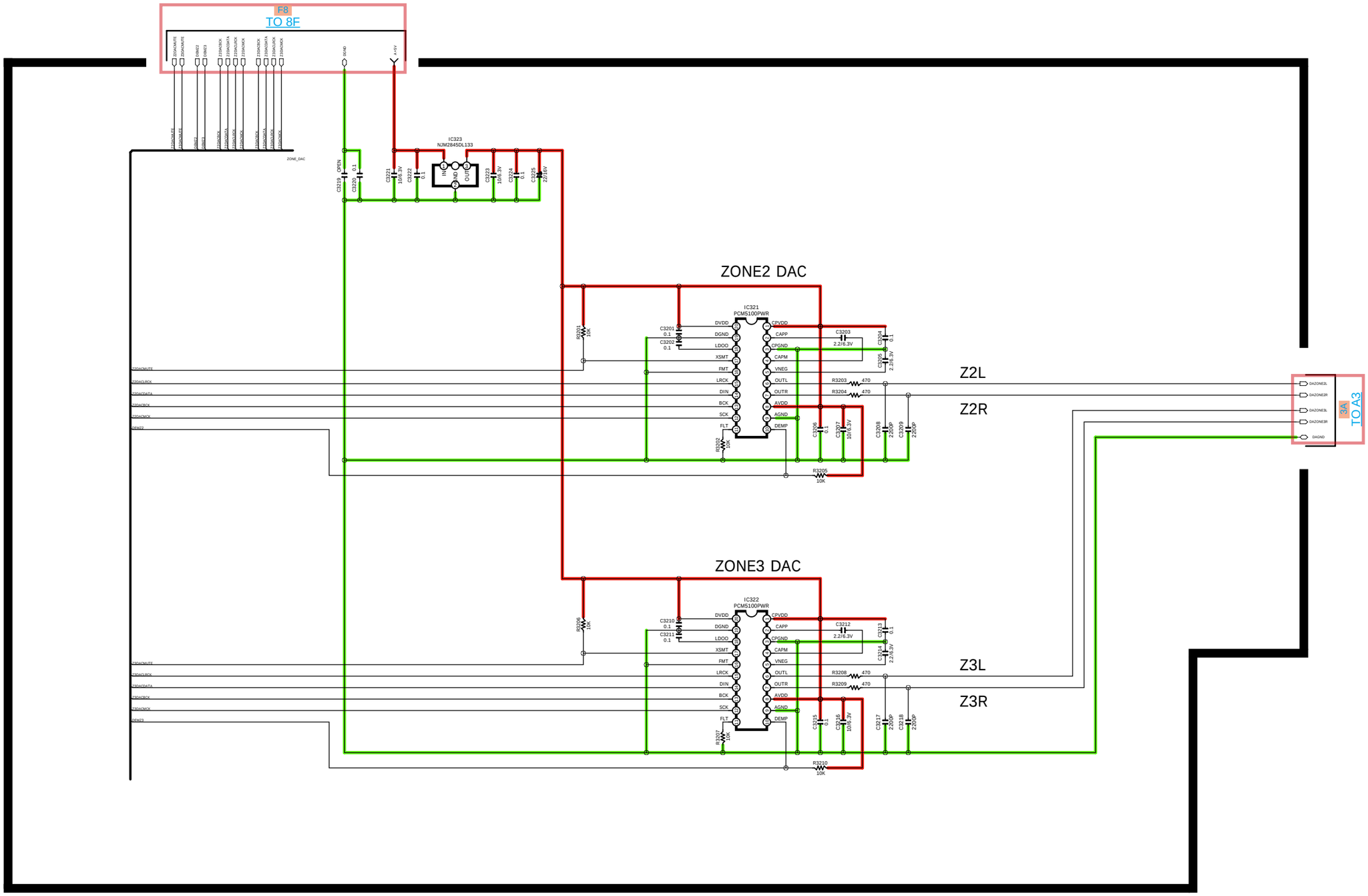
GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER



GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (12/38)

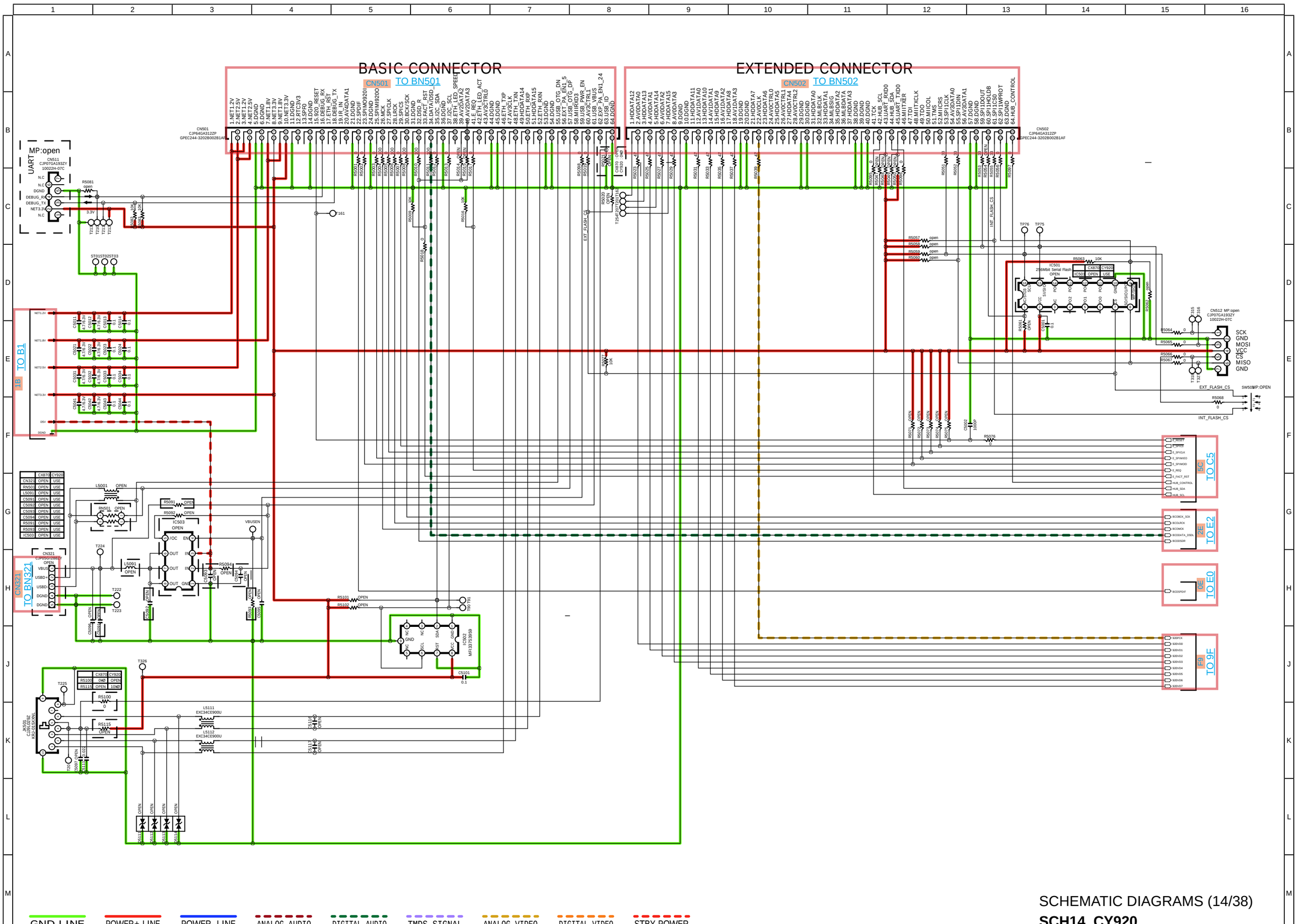
SCH12_ADC

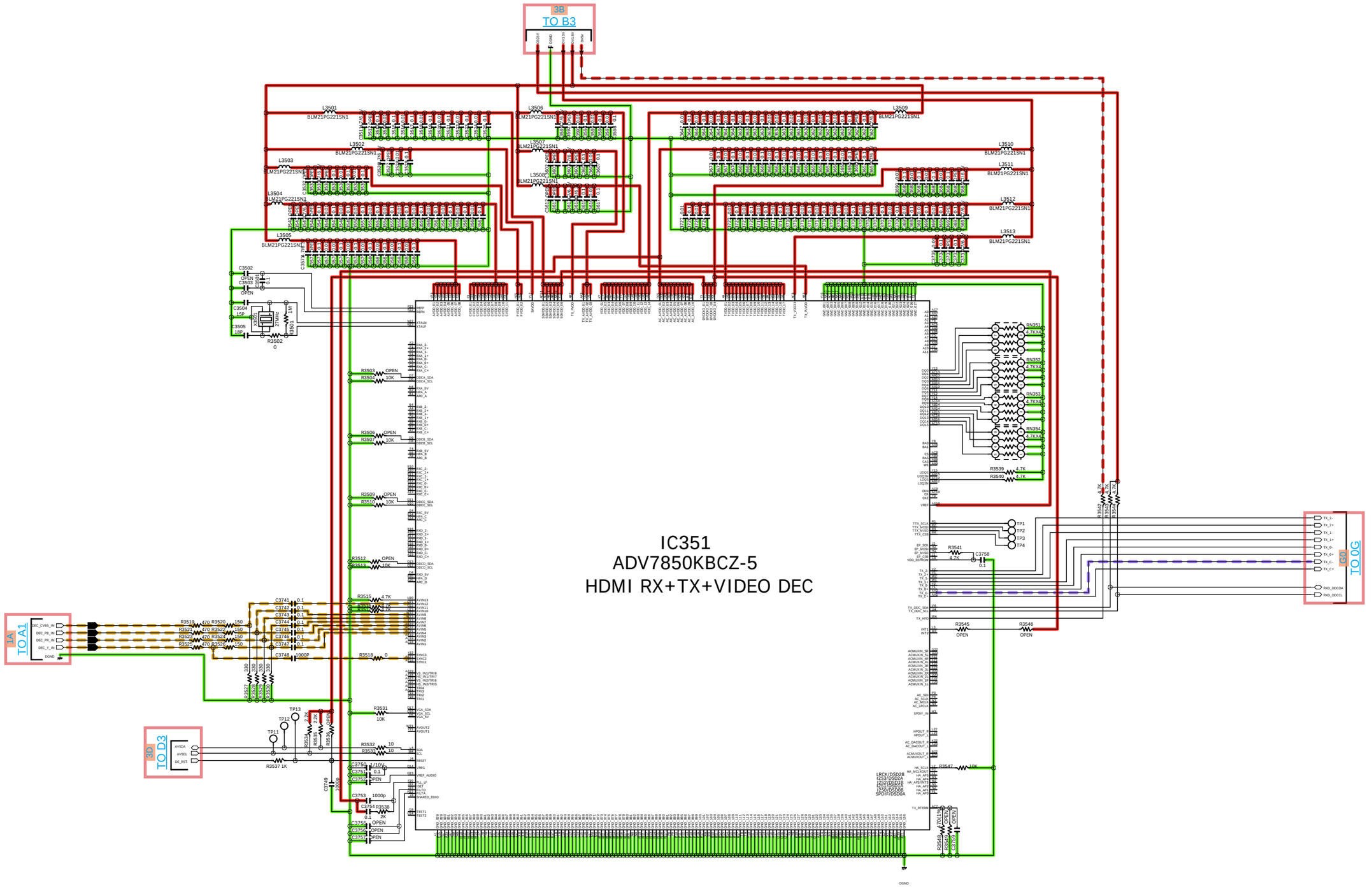


GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (13/38)

SCH13_ZONE DAC


BASIC CONNECTOR
CN501
TO BN501
EXTENDED CONNECTOR
CN502
TO BN502
CN501 CJP64GA3122P GPEC244-3202B002B1AF
CN502 CJP64GA312ZP GPEC244-3202B002B1AF
MP:open
UART
CN511 CJP07GA193ZY 10022H-07C
N.C
DGND
DEBUG_RX
DEBUG_TX
NET3.3V
3.3V
ST01ST02ST03
TO B1
1B
NET1.2V
NET1.8V
NET2.5V
NET3.3V
DSV
DGND
CN321
CJP05GT288ZY
VBUS
USBD+
USBD-
DGND
TO BN321
IC503
OVC
EN
OUT
IN
GND
VBUSEN
IC502
MFI337S3959
SCL
SDA
RST
VCC
IC501
256Mbit Serial Flash
OPEN
CX870
CY920
IC503
USE
SCK
GND
MOSI
VCC
CS
MISO
GND
EXT_FLASH_CS
INT_FLASH_CS
SW501MP:OPEN
TO C5
5C
TO E2
2E
TO E0
0E
TO 9F
F9
E_RESET
E_SPIRDY
E_SPICLK
E_SPIMIEO
E_SPIMOEI
E_REQ
E_FACT_RST
HUB_CONTROL
HUB_SDA
HUB_SCL
XCOBCK_SCK
XCOLRCK
XCOMCK
XCODATA_DSDL
XCODSDR
920PCK
920VD0
920VD1
920VD2
920VD3
920VD4
920VD5
920VD6
920VD7
SCHEMATIC DIAGRAMS (14/38)
SCH14_CY920
GND LINE
POWER+ LINE
POWER- LINE
ANALOG AUDIO
DIGITAL AUDIO
TMDS SIGNAL
ANALOG VIDEO
DIGITAL VIDEO
STBY POWER



GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (15/38)

SCH15_VIDEO DECODER

HDMI_INPUT-1

JK381
A0D7ABAR1990
19.HP DET
18.+5V
17.GND
16.DDC DATA
15.DDC CLK
14.NC
13.CEC
12.CK-
11.D1 SHIELD
10.CK+
9.D0-
8.D1 SHIELD
7.D0+
6.D1-
5.D2 SHIELD
4.D1+
3.D2-
2.D2 SHIELD
1.D2+

HDMI_INPUT-2

JK382
A0D7ABAR1990
19.HP DET
18.+5V
17.GND
16.DDC DATA
15.DDC CLK
14.NC
13.CEC
12.CK-
11.D1 SHIELD
10.CK+
9.D0-
8.D1 SHIELD
7.D0+
6.D1-
5.D2 SHIELD
4.D1+
3.D2-
2.D2 SHIELD
1.D2+

HDMI_INPUT-3

JK383
A0D7ABAR1990
19.HP DET
18.+5V
17.GND
16.DDC DATA
15.DDC CLK
14.NC
13.CEC
12.CK-
11.D1 SHIELD
10.CK+
9.D0-
8.D1 SHIELD
7.D0+
6.D1-
5.D2 SHIELD
4.D1+
3.D2-
2.D2 SHIELD
1.D2+

HDMI_INPUT-4

JK384
A0D7ABAR1990
19.HP DET
18.+5V
17.GND
16.DDC DATA
15.DDC CLK
14.NC
13.CEC
12.CK-
11.D1 SHIELD
10.CK+
9.D0-
8.D1 SHIELD
7.D0+
6.D1-
5.D2 SHIELD
4.D1+
3.D2-
2.D2 SHIELD
1.D2+

IC381
MN864777

TO B7

TO 2G

TO 3G

TO 1G

TO D1

SCHEMATIC DIAGRAMS (16/38)

SCH16_HDMI SW2

GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

HDMI_INPUT-5

19.HP DET
18.+5V
17.GND
16.DDC DATA
15.DDC CLK
14.NC
13.CEC
12.CK-
11.D1 SHIELD
10.CK+
9.D0-
8.D1 SHIELD
7.D0+
6.D1-
5.D2 SHIELD
4.D1+
3.D2-
2.D2 SHIELD
1.D2+

HDMI_INPUT-6

19.HP DET
18.+5V
17.GND
16.DDC DATA
15.DDC CLK
14.NC
13.CEC
12.CK-
11.D1 SHIELD
10.CK+
9.D0-
8.D1 SHIELD
7.D0+
6.D1-
5.D2 SHIELD
4.D1+
3.D2-
2.D2 SHIELD
1.D2+

HDMI_INPUT-7

19.HP DET
18.+5V
17.GND
16.DDC DATA
15.DDC CLK
14.NC
13.CEC
12.CK-
11.D1 SHIELD
10.CK+
9.D0-
8.D1 SHIELD
7.D0+
6.D1-
5.D2 SHIELD
4.D1+
3.D2-
2.D2 SHIELD
1.D2+

IC391
MN864777

HDMI ZONE2 OUT

1.D2+
2.D2 SHIELD
3.D2-
4.D1+
5.D2 SHIELD
6.D1-
7.D0+
8.D1 SHIELD
9.D0-
10.CK+
11.D1 SHIELD
12.CK-
13.CEC
14.NC
15.DDC CLK
16.DDC DATA
17.GND
18.+5V
19.HP DET

TO G3
TO G1
TO 4G
TO 5G
TO B6
TO E4
TO D9
TO D2

SCHEMATIC DIAGRAMS (17/38)

SCH17_HDMI SW1

GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

IC401
AD55/058Z-0(ADV8003-8B)
HDMI TX+I/P SCALER+GUI

IC402
A3R12E40CBF-8E
512Mbit DDR2 SDRAM

IC403
A3R12E40CBF-8E
512Mbit DDR2 SDRAM

IC404
M25P16-VMW1-10G
128M BIT FLASH

CN401 MP:open
CJP07GA193ZY
10022H-07C

SCK
GND
MOSI
VCC
CS
MISO
GND

TO B4

TO G6

TO D4

TO C4

GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (18/38)

SCH18_VSP & IP & OSD

5B
TO B5

G8
TO 8G

IC422
OPEN

MCU&C7920

6C
TO C6

7D
TO D7

9F
TO F9

IC421
EPM570F256C4N

ADV8003

6G
TO G6

G7
TO 7G

HDMI_TX

SCHEMATIC DIAGRAMS (19/38)

SCH19_VIDEO PLD

GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

IC431
MN864777

HDMI_OUTPUT-2

HDMI_OUTPUT-1

CLZ9Z120Z :
ESD suppressor
ASQS12U020R2

CLZ9Z120Z :
ESD suppressor
ASQS12U020R2

TO B8

TO D6

TO CN541

TO E3

TO G2

TO G5

TO G4

TO G0

TO G7

TO D5

GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (20/38)

SCH20_HDMI TX & SCALER

ADAPTER WITHOUT BUFFER

FROM USB B'D

FROM DIGITAL B'D

CX870 NETWORK MODULE

BASIC CONNECTOR

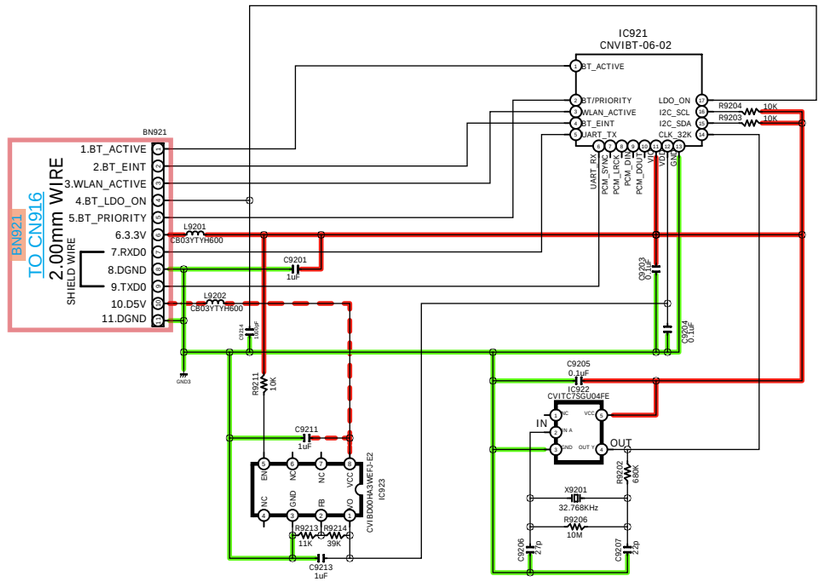
EXTENDED CONNECTOR

SCHEMATIC DIAGRAMS (21/38)

SCH21_ADAPTER

GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

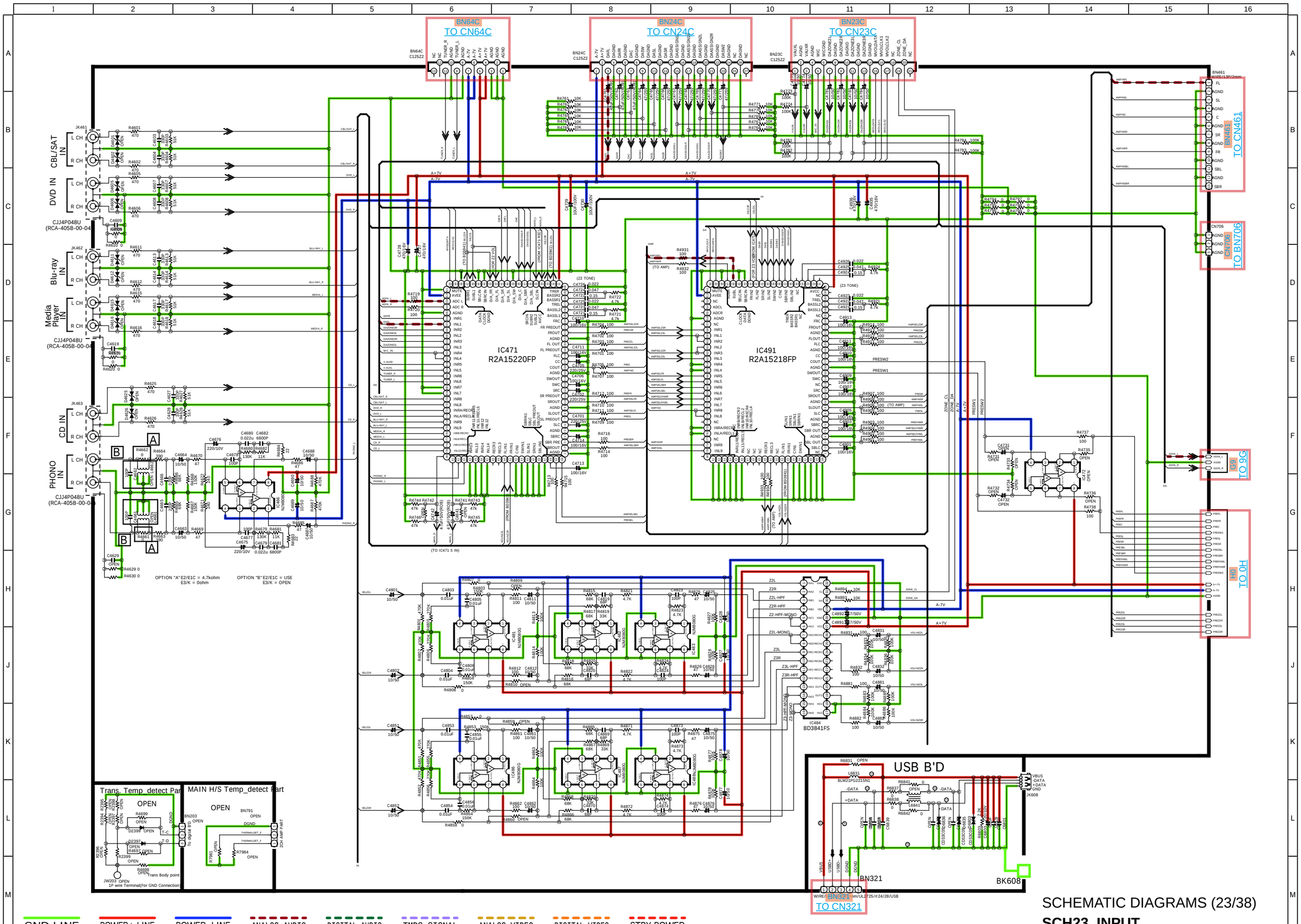
BLUETOOTH MODULE



GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (22/38)

SCH22_BLUETOOTH


BN64C
TO CN64C
BN24C
TO CN24C
BN23C
TO CN23C
CBL/SAT IN
DVD IN
Blu-ray IN
Media Player IN
CD IN
PHONO IN
CJJ4P048U (RCA-405B-00-04)
IC471 R2A15220FP
IC491 R2A15218FP
IC484 BD3841FS
BN461
TO CN461
CN706
TO BN706
TO 9G
TO H0
USB B'D
BN321
TO CN321
BK608
Trans. Temp_detect Part
MAIN H/S Temp_detect Part
OPTION "A" E2/E1C = 4.7kohm E3/K = 0ohm
OPTION "B" E2/E1C = USE E3/K = OPEN
SCHEMATIC DIAGRAMS (23/38)
SCH23_INPUT
GND LINE
POWER+ LINE
POWER- LINE
ANALOG AUDIO
DIGITAL AUDIO
TMDS SIGNAL
ANALOG VIDEO
DIGITAL VIDEO
STBY POWER

PREOUT PART

TO G9 (9G)

TO CN26C (BN26C)

TO H0 (0H)

CJJ4P048U (RCA-405B-00-04) JK891: Z2L, Z2R, Z3L, Z3R

CJJ4P077Z (RCA-405B-55) JK871: FL, FR, C, SW

CJJ4P048U (RCA-405B-00-04) JK875: SL, SR, SBL, SBR

CJJ4P048U (RCA-405B-00-04) JK879: FWL, FWR, FH1L, FH1R

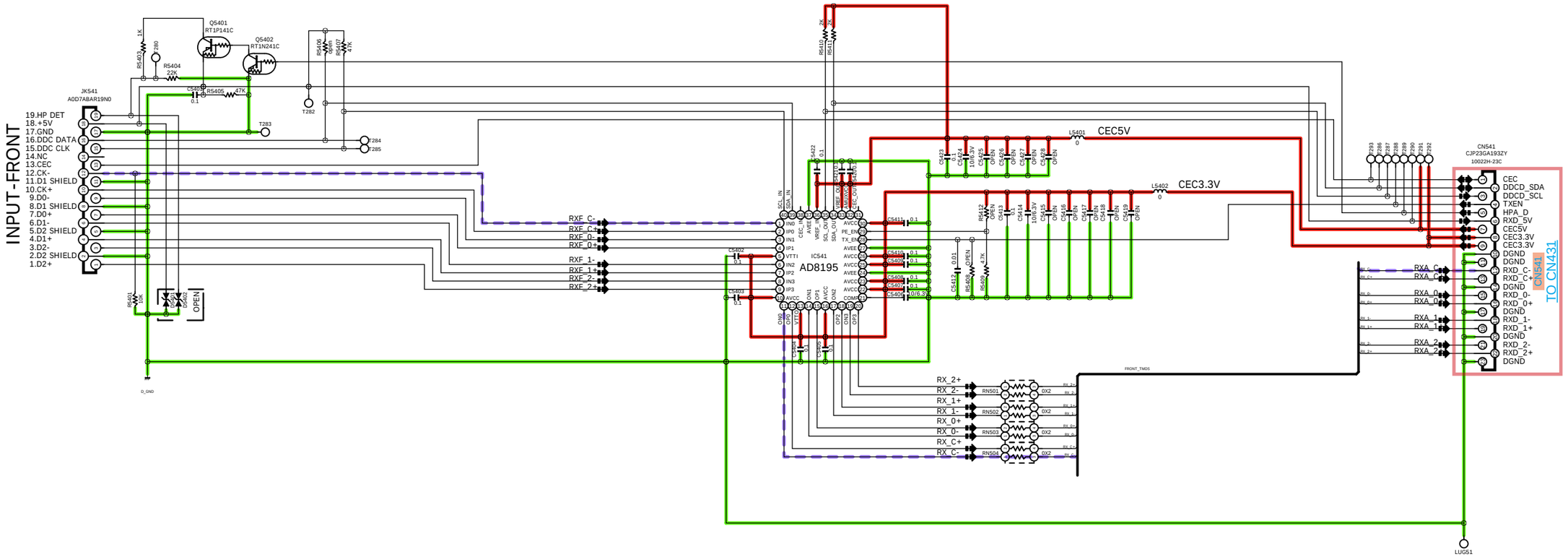
CJJ4N034U (RCA-207AE-02) JK886: FH2L, FH2R

JK881 SW2 — CJJ4M046U (RCA-107B-04)

SCHEMATIC DIAGRAMS (24/38)

SCH24_PREOUT

GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER



GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (25/38)

SCH25_F-HDMI

ANALOG VDIEO PART

CVBS IN/OUT

JK511
RCA-628-002-47

CBL/SAT
DVD
GAME
MONITOR OUT
ZONE2 OUT

COMPONENT IN / OUT

JK512
RCA-628-002-08

SAT_Y
DVD_Y
SAT_Cb
DVD_Cb
SAT_Cr
DVD_Cr
BD_Y (OPEN)
MONITOR_Y
BD_Cb (OPEN)
MONITOR_Cb
BD_Cr (OPEN)
MONITOR_Cr

JK513
RCA-628-002-08

IC511
AVDM2000

IC513
NJM2845DL133
+3.3V

TO 1H
TO 2H
TO CN21B

("TRG_GND"->DGND" For EU)

JUMPER

OPEN

SCHEMATIC DIAGRAMS (26/38)

SCH26_VIDEO

GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

RC-5 / MX-PORT

OPEN

ALL MODEL OPEN

OPEN

FAN CTRL PART

FAN CTRL (SPEED)

FANCONT_L_ON	FANCONTON	FAN_OUT (SPEED)
H	H	MAX SPEED
H	L	MID SPEED
L	X	STOP
L		

BN27B TO CN27B

RC-5 / Ni-Plated

MX-PORT

MAX 130mA

(TRG_GND->DGND* For MU1)

BN28B TO CN28B

2H TO H2

H3 TO 3H

1H TO H1

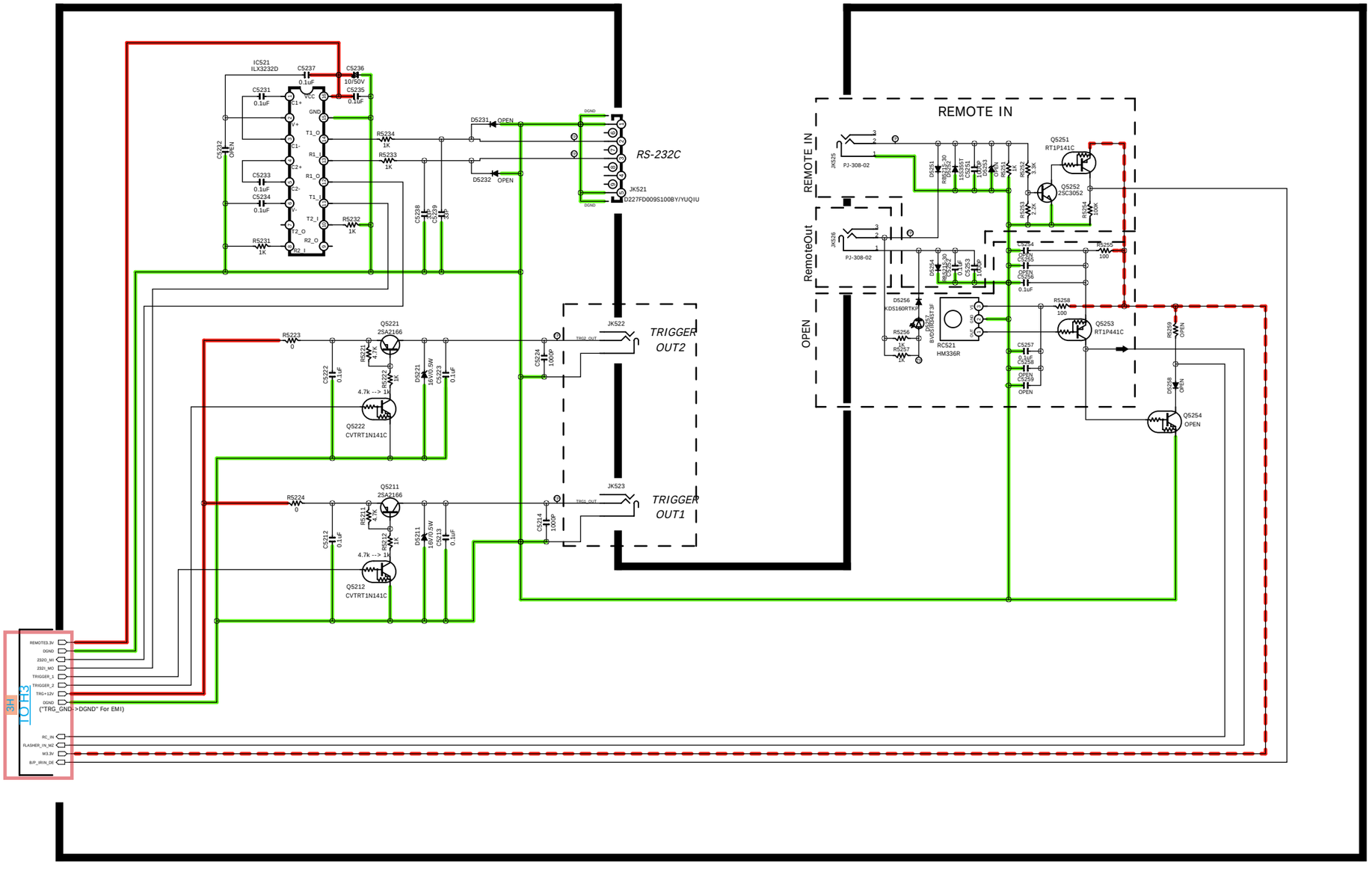
SR7008 ONLY

GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (27/38)

SCH27_RC-5 & MX-PORT

RS232C/TRIGGER



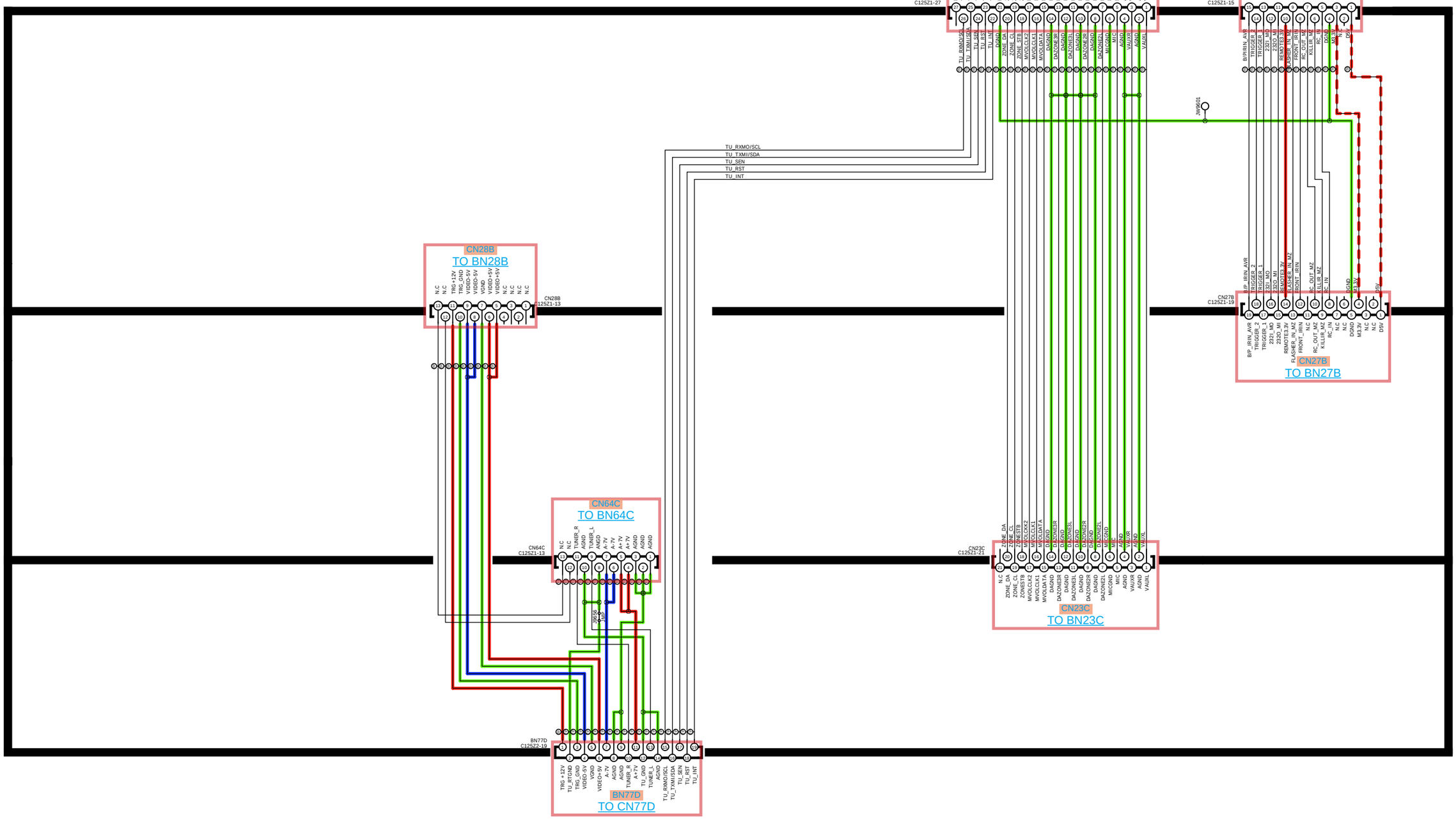
IR / FLASHER

SCHEMATIC DIAGRAMS (28/38)

SCH28_RS232C & TRIGGER

GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SIDE CNT_CUP12685Z(CONNECT A)

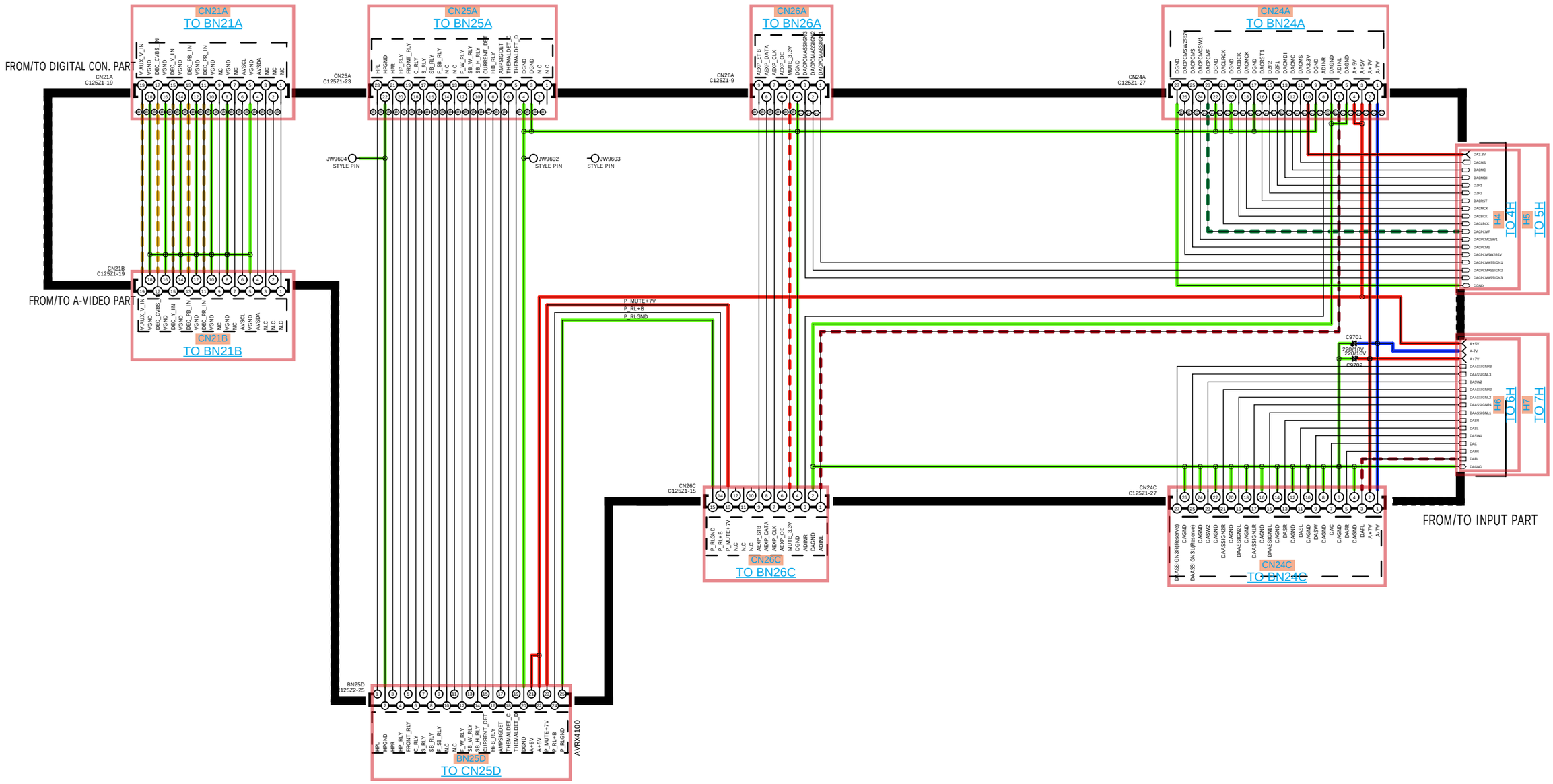


GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (29/38)

SCH29_CONNECT_A

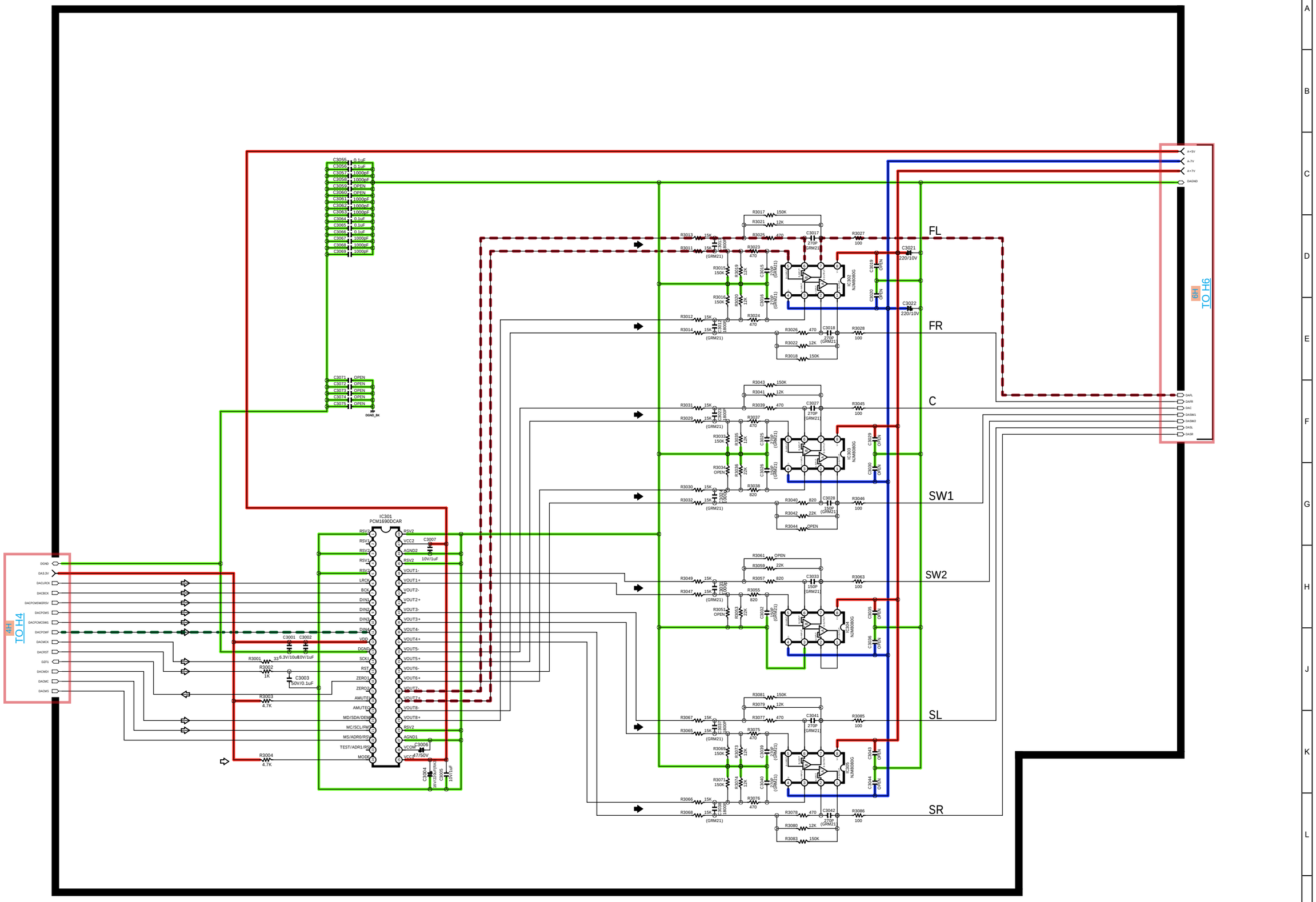
FRT CNT CONNECT B



GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (30/38)

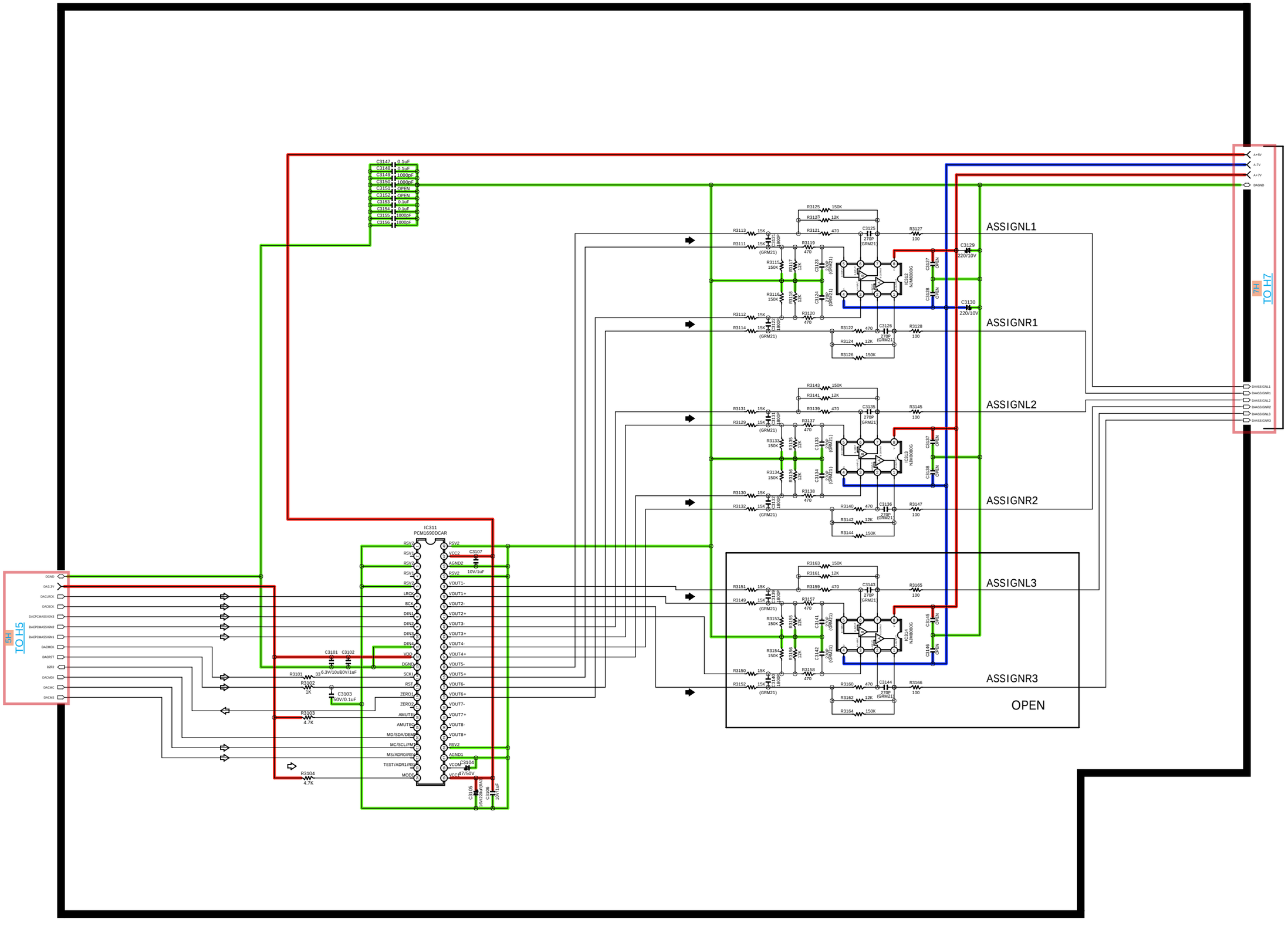
SCH30_CONNECT_B



GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (31/38)

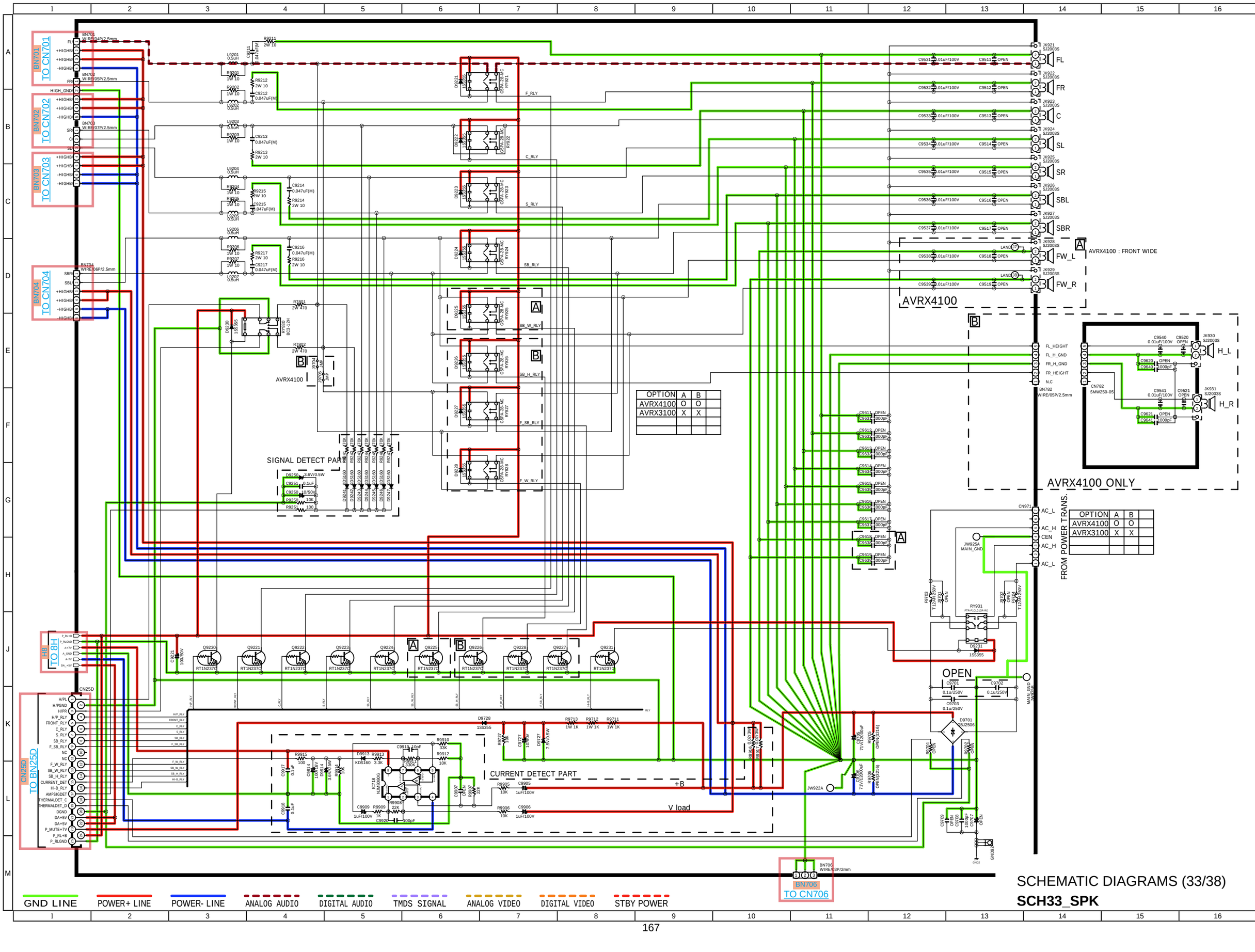
SCH31_MAIN DAC1

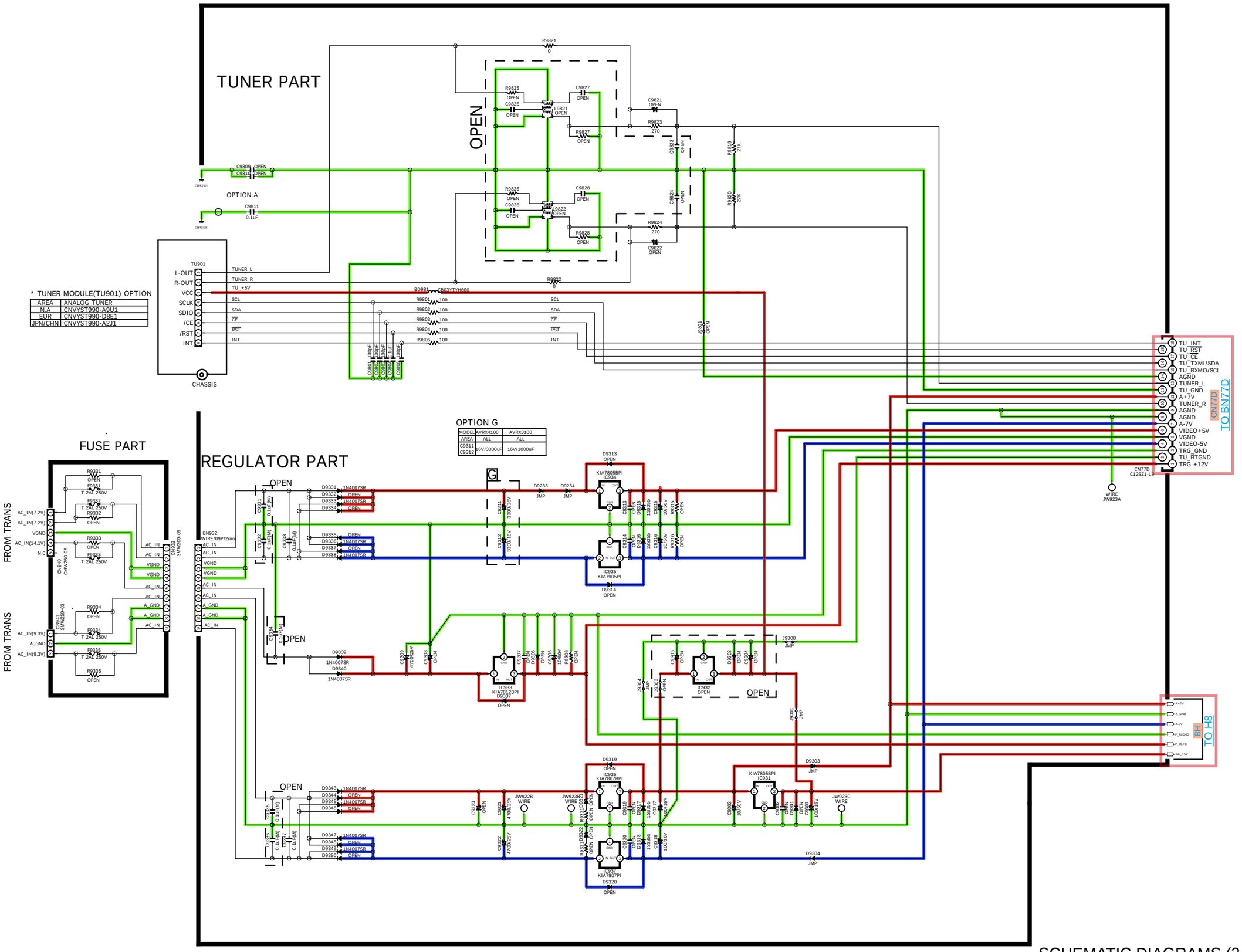


GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (32/38)

SCH32_MAIN DAC2

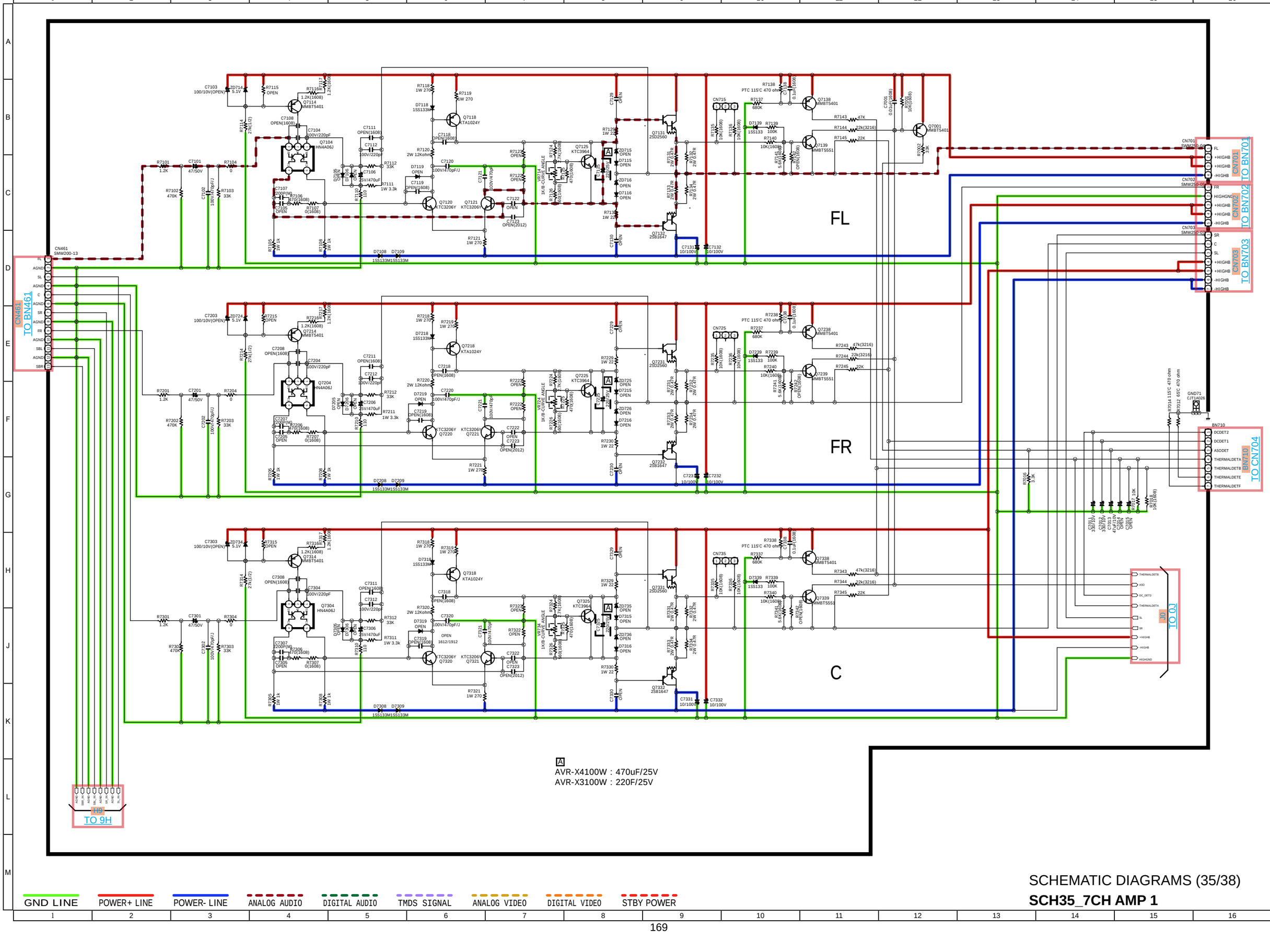

BN701 TO CN701
BN702 TO CN702
BN703 TO CN703
BN704 TO CN704
H8 TO 8H
CN25D TO BN25D
AVRX4100
AVRX4100 : FRONT WIDE
AVRX4100 ONLY
SIGNAL DETECT PART
CURRENT DETECT PART
FROM POWER TRANS.
OPEN
+B
V load
F_RLY
C_RLY
S_RLY
SB_RLY
F_SB_RLY
SB_W_RLY
SB_H_RLY
F_W_RLY
OPTION A B
AVRX4100 O O
AVRX3100 X X
SCHEMATIC DIAGRAMS (33/38)
SCH33_SPK
GND LINE
POWER+ LINE
POWER- LINE
ANALOG AUDIO
DIGITAL AUDIO
TMDS SIGNAL
ANALOG VIDEO
DIGITAL VIDEO
STBY POWER



GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

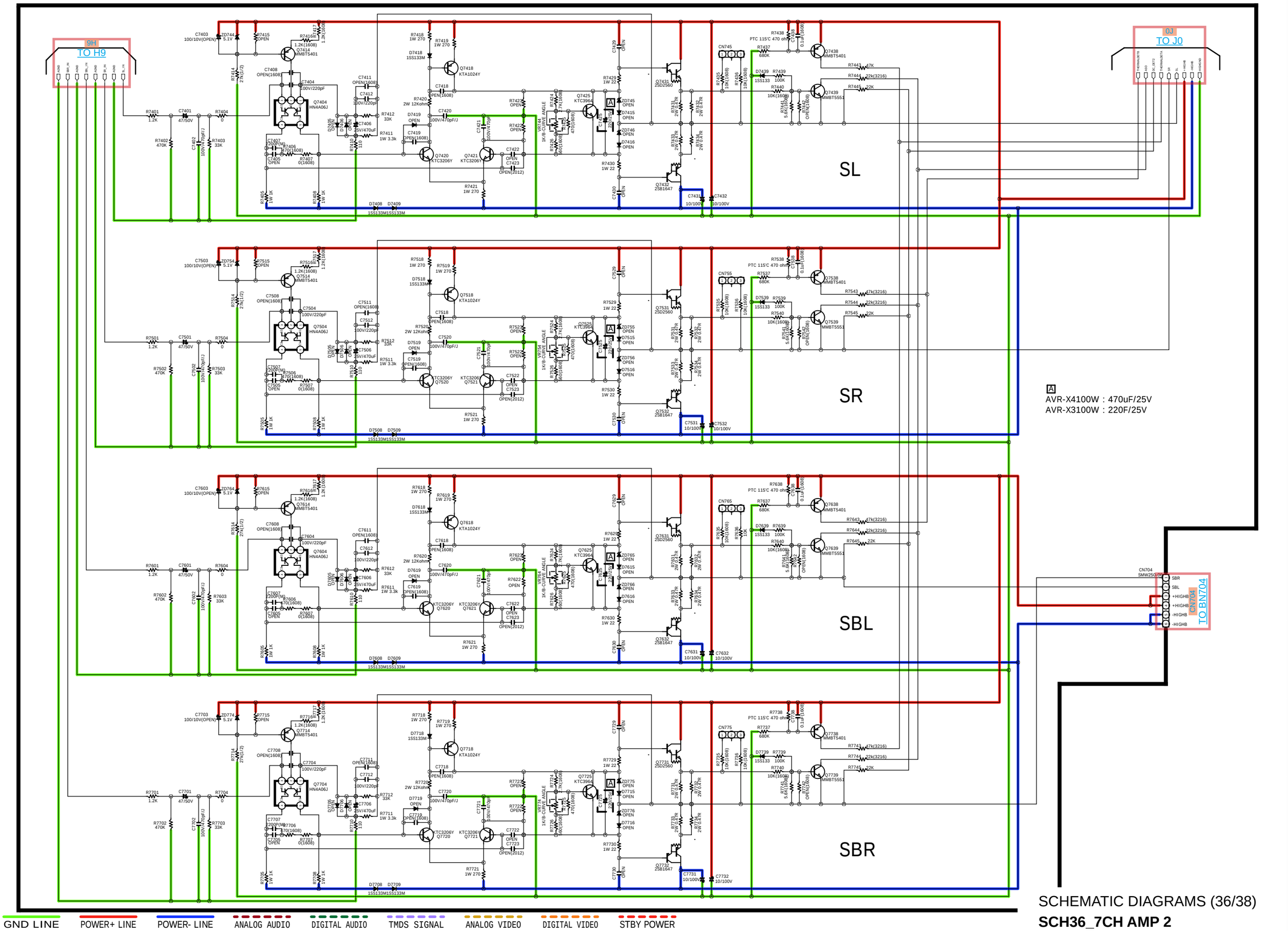
SCHEMATIC DIAGRAMS (34/38)

SCH34_REGULATOR & TUNER



SCHEMATIC DIAGRAMS (35/38)

SCH35_7CH AMP 1


9H
TO H9
0J
TO J0
SL
SR
SBL
SBR
A
AVR-X4100W : 470uF/25V
AVR-X3100W : 220F/25V
CN704
TO BN704
SCHEMATIC DIAGRAMS (36/38)
SCH36_7CH AMP 2
GND LINE
POWER+ LINE
POWER- LINE
ANALOG AUDIO
DIGITAL AUDIO
TMDS SIGNAL
ANALOG VIDEO
DIGITAL VIDEO
STBY POWER

CUP12622Z-1

FIP POWER PART

FROM TRANSFORMER
CN602
YMAW025-03R
FIL1
OPEN
FIL2
OPEN
DGND
OPEN
VKK
AC37V
R6003 0
R6004 0
R6005 1.0
R6006 2.2
C6001 OPEN
R6001 200
R6002 2.00
C6006 OPEN
F6001 T 200mA L 250
D6023 1N4007S
Q6026 KTC1027YT
R6025 2.2K
R6026 47K
C6022 OPEN
C6024 OPEN
R624 OPEN
R625 OPEN
C6025 1/50V
D6027 D9026 24V
C6027 1/50V
C6021 1/50V
D6021 6.8V
DC42V
DGND

FUNCTION ENCODER PART

LUG64
CHASSIS
FUNCTION ENC.
R6424 4.7K
R6422 100
ISELB
VR604
CSR2A060Z
C6424 0.047uF
C6422 OPEN
C6423 0.047uF
C6421 OPEN
R6423 4.7K
R6421 100
ISELA
C6425 OPEN
FRONT_1
SWM 3.3V
DGND

GND ISLAND

C6914 OPEN
C6915 OPEN
C6922 OPEN
C6923 OPEN
C6924 OPEN
C6925 OPEN
C6926 OPEN
C6927 OPEN

LUG61

CHASSIS

CN69A

TO CN69B
TPC 1.0-11S-40PW
DGND DGND SWM3.3V ISELB ISELA KEY3 KEY2 KEY1 H/PDET NC NC FL_DATA FL_CLK FL_CE1 FL_RST NC B/P/IRIN WHITE/GRNL_LED REDLED FL_BUSY FRONT_IRIN H/PR H/PL H/PGND VGND MIC MICGND VAUX AGND VAUXR A-7V VAUXL VSELA A+7V SWM3.3V NC M3.3V

C6902 0.1uF
C6904 OPEN
C6905 OPEN
C6906 OPEN
C6907 0.1uF
C6908 OPEN
C6909 OPEN
C6910 0.1uF
C6911 0.1uF
C6912 0.1uF
C6913 0.1uF
C6914 OPEN
C6915 OPEN
C6916 OPEN
C6917 OPEN
C6918 OPEN

VOLUME ENCODER PART

SWM3.3V
VSELA
VSELB
FRONT_IRPN
H/PDET
POWERKEY
DGND
C6354 OPEN
C6352 0.01uF
C6353 OPEN
C6351 0.01uF
EC16E24SA0422Z
VR601
MASTER VOL.
R6352 100
VSELA
R6354 4.7K
R6351 100
VSELB
R6353 4.7K

MIC PART

A+7V
MICDET
MIC
A-7V
MICGND
MIC IN " H "
R6726 1K
Q6703 RT1N141C
Q6702 OPEN
R6730 OPEN
D6701 0.1uF
MIC
JK607
CJJ1D006Z
C6733 1/50V
C6735 100pF
R6734 100K
C6705 OPEN
R6704 100K
R6711 2.2K
R6712 5.1V/0.5W
C6712 1/50V
R6718 100
K6601
NJM8080BG
C6721 1/50V
0.047uF
C6719 100/16V
R6721 4.7K
R6720 820
R6723 100
C6723 OPEN
D6729 5.1V/0.5W
C6729 OPEN
R6722 OPEN
C6722 OPEN
D6722 5.1V/0.5W
R6724 1.8K
C6724 OPEN
C6702 OPEN
R6702 OPEN
C6702 0.1uF
D6751 CRJ14CJ100T
C6751 OPEN
C6752 0.1uF

V.AUX PART

VAUXR
AGND
VAUXL
VGND
VAUXV
R6614 100
VAUXL
A+7V
C6621 0.1uF
C6623 0.1uF
AGND
C6622 OPEN
C6624 0.1uF
A-7V
IC601
NJM8080G
VCC
VEE
R6613 100
VAUXR
C6601 10/50V
R6601 470
R6605 100K
C6603 330
R6603 470
C6604 OPEN
R6604 100K
R6607 100K
C6523 10/50V
R6602 470
L6601 CB03YTYH600
C6691 0.1uF
D6691 CRJ14CJ100
D6692 OPEN
C6692 OPEN
C6693 0.1uF
D6693 OPEN
C6694 OPEN
D6694 CRJ14CJ100T
V.AUX_R
V.AUX_L
V.AUX_V
JK606
RCA-32BH-00A-04
BK601
OPEN
VAUXV
R6632 0

FIP & KEY PART

SWM 3.3V
FIL2
DGND
FL_DATA
FL_CE1
FL_CLK
R6071 100
R6072 100
R6073 100
C6071 100P
C6072 100P
C6073 100P
C6074 100P
R6081 2K
R6082 220K
C6008 OPEN
C6009 OPEN
C6083 0.047uF
C6082 0.1uF/50V
C6084 0.1uF
RESET
SWM3.3V
R6082 10K
R6083 100
Q6081 RT1N141C
FL601 CFL17BT040GINK
F1 F2 KEY1 KEY2 KEY3 VDD RST CF CA T1as T2as G1 G2 F3 F4
C6011 OPEN
C6012 OPEN
253mA/dc
H/PGND
R6033 100/2.2W
C6035 OPEN
C6034 0.1uF
Q6042 2SC3052
D6041 1S2836T
R6041 100
D6042 OPEN
R6042 10K
R6043 1M
R6044 330K
Q17G
17G 133mA
DGND

IR RECEIVER

R6134 1K
R601 CRVHM238RT12
VOUT GND VCC
R6009 10
Q6112 RT1P141C
FRONT_IRIN
R6101 390
R6102 390
R6103 4.7K
D6103 OPEN
LD602 SIR1A1FF70
R6132 OPEN
C6132 OPEN
LD603 OPEN
R6133 OPEN
C6133 OPEN
R6135 47K
C6113 0.1uF
C6114 47/16V
BUFFERN

AVR3813 OPTION

MB_IR RECEIVER
R6052 OPEN(3813 OPTION)
R602 CRVHM238RT12
R6051 OPEN(3813 OPTION)
C6052 OPEN(3813 OPTION)
Q6025 OPEN(3813 OPTION)
R605 3 OPEN(3813 OPTION)
J6007 C3A206 OPEN(3813 OPTION)
C6051 OPEN(3813 OPTION)
C6052 OPEN(3813 OPTION)
R6051 OPEN(3813 OPTION)
C6118 10

POWER LED PART

C6303 OPEN
SW631
POWERKEY
SWM5V
GRNLED
M3.3V
REDLED
DGND
J6001 C3A206
J6002 C3A206
J6003 C3A206
J6004 C3A206
J6005 C3A206
J6006 C3A206
2.2K R6301 REDLED
ON/STANDBY
LD601 CVDBLJBEGJ204L
A
R6302 1.2K
R6303 1.2K
C6301 OPEN
C6302 OPEN
R6305 OPEN
R6306 OPEN
D6323 1SS355T
Q6311 RT1P141C
Q6312 RT1P141C
Q6313 RT1N141C
Q6314 RT1N141C
C6321 OPEN
C6322 OPEN
D6321 OPEN
D6322 OPEN
LUG63
OPEN

OPTION "A"			
	R6302	R6303	LD601
E3	CRJ10DJ122	CRJ10DJ122	CVDPVBWR5A2M
E2/E1C	CRJ10DJ561	CRJ10DJ561	CVDBLJBEGJ204L

CUP12622Z-2

HEAD PHONE PART

JK605
H/P
H/PL
H/PR
H/PDET
DGND
H/PGND
CJJ2E026Z
PJ-612A-51
L6501 CRJ10DJ0R0T
C6601 1000P
C6602 1000P
C6502 1000P
C6503 1000P
C6512 0.1uF
C6512 OPEN
C6511 OPEN
C6511 OPEN
C6513 0.1uF
C6514 1/50V
D6501 OPEN
R6503 100
D6502 0.1uF
BK602
OPEN
CN605A
TUC-P05X-B1
CN605B
224202105W
HP_L
HP_R
H/PDET_IN
HP IN " H "

CUP12622Z-3

H/PDET Active "L"

R6007 OPEN
R6008 0
R6009 47K
R6010 OPEN
Q6028 OPEN
Q6027 RT1N141C
SWM 3.3V

KEY1

R6155 330 SW606 DIMMER
R6154 220 SW605 UP TUNING UP
R6153 180 SW604 LEFT PRESET
R6152 150 SW603 ZONE2/REC DOWN
R6151 100 SW602 ZONE2 ON/OFF SELECT
C6115 OPEN Quick Select3

KEY2

R6166 560 SW617 SETUP
R6165 330 SW616 RIGHT PRESET UP
R6164 220 SW615 ENTER
R6163 180 SW614 BACK
R6162 150 SW613 STATUS
R6161 100 SW612 Quick Select1
C6116 OPEN Quick Select4

KEY3

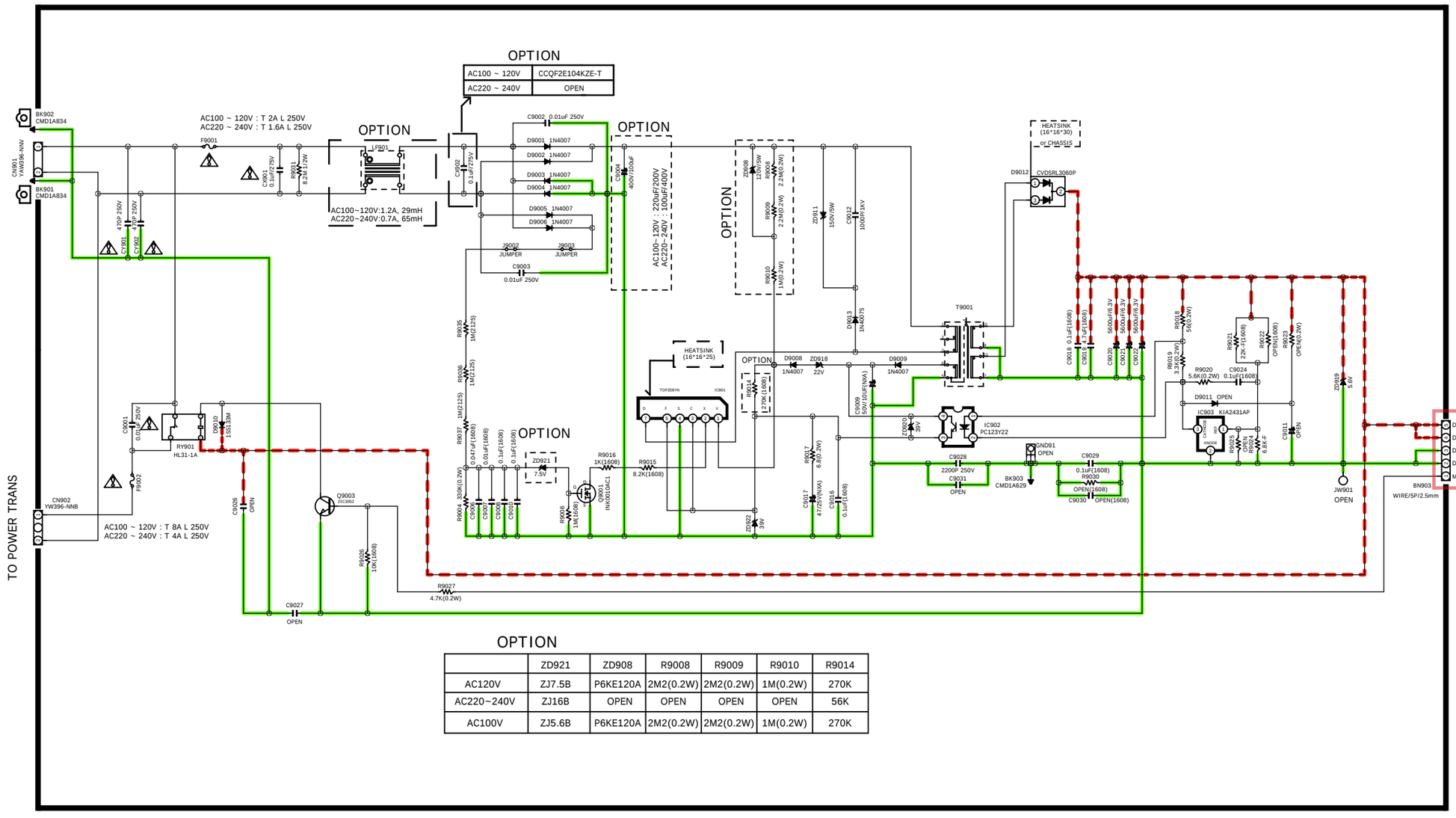
R6175 330 SW626 OPTION
R6174 220 SW625 DOWN TUNING DOWN
R6173 180 SW624 INFO
R6172 150 SW623 ZONE3 SELECT
R6171 100 SW622 ZONE3 ON/OFF
C6117 OPEN Quick Select2

DGND
H/PGND

GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (37/38)
SCH37_FRONT

SMPS PART



OPTION

	ZD921	ZD908	R9008	R9009	R9010	R9014
AC120V	ZJ7.5B	P6KE120A	2M2(0.2W)	2M2(0.2W)	1M(0.2W)	270K
AC220~240V	ZJ16B	OPEN	OPEN	OPEN	OPEN	56K
AC100V	ZJ5.6B	P6KE120A	2M2(0.2W)	2M2(0.2W)	1M(0.2W)	270K

** IMPORTANT SAFETY NOTICE.
COMPONENT IDENTIFIED BY MARK ⚠ HAVE SPECIAL CHARACTERISICS.
IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS
USE ONLY MANUFACTURER'S SPECIFIED PARTS.
** THE UNIT OF RESISTANCE IS OHM.
K = 1000 OHM. M = 1000KOHM.
** THE UNIT OF CAPACITANCE IS MICROFARAD(uF)
pF = 10 -12F
** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE
IMPROVEMENT OF PERFORMANCE.

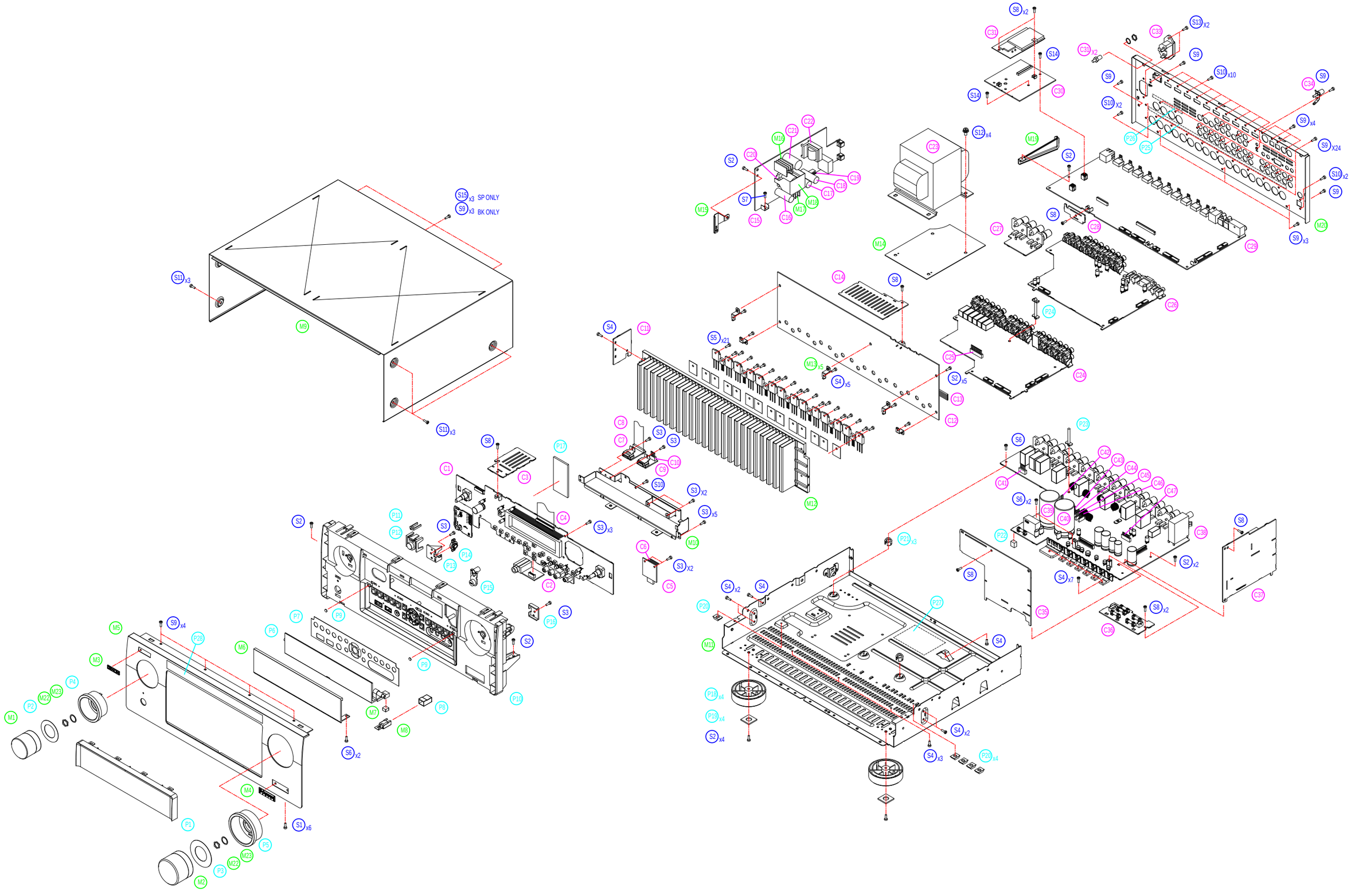
GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (38/38)

SCH38_SMPS

EXPLODED VIEW

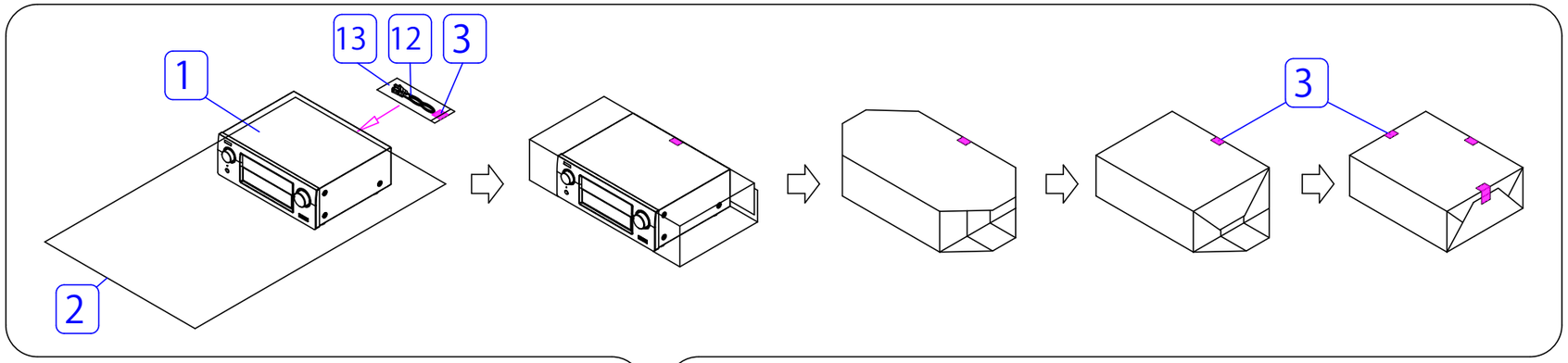
Please see the last chapter for the part list.

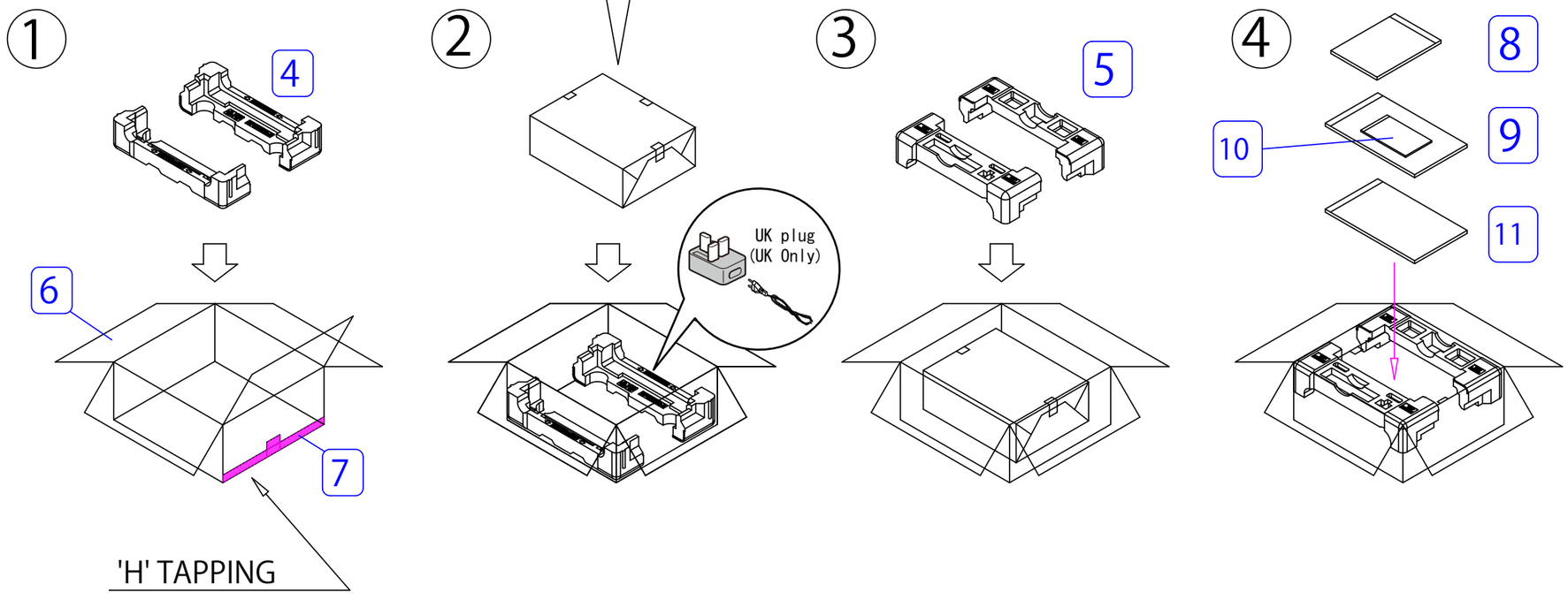


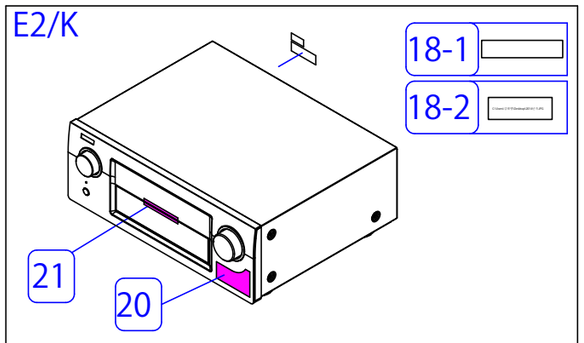
WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

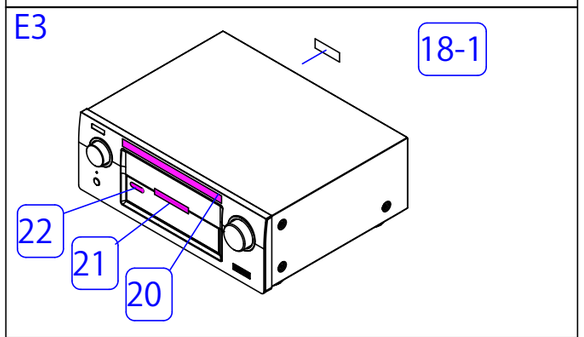
PACKING VIEW

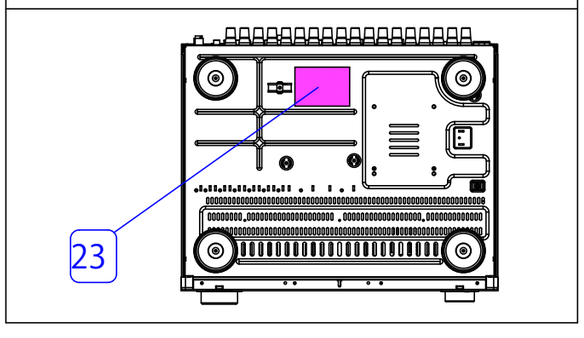
Please see the last chapter for the part list.

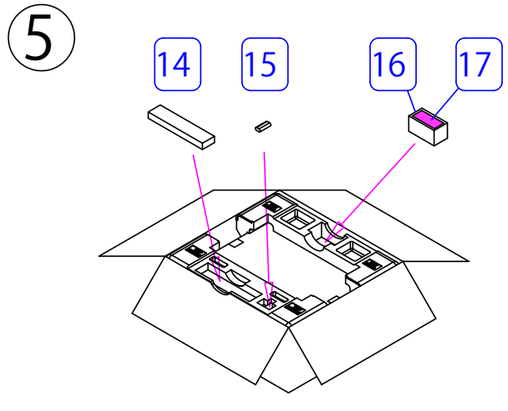


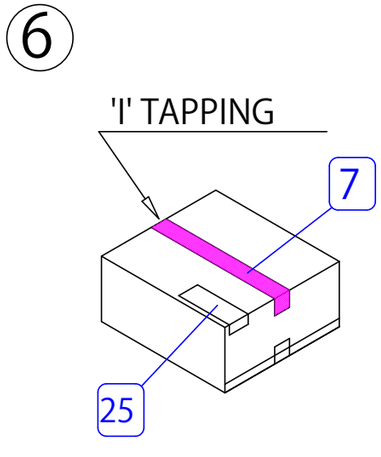


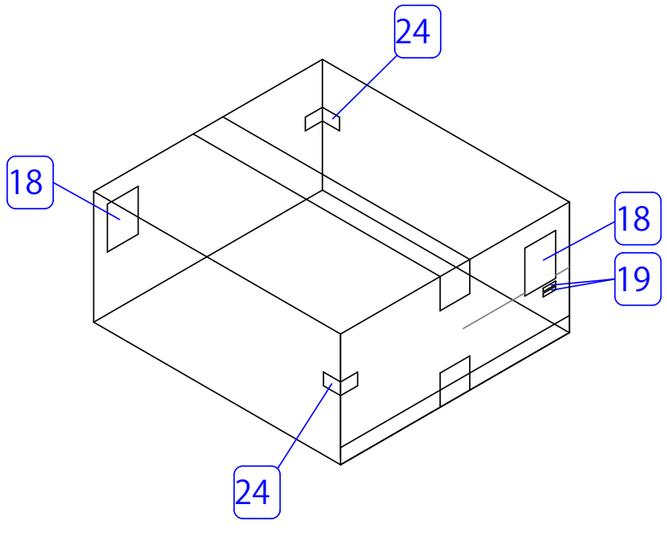










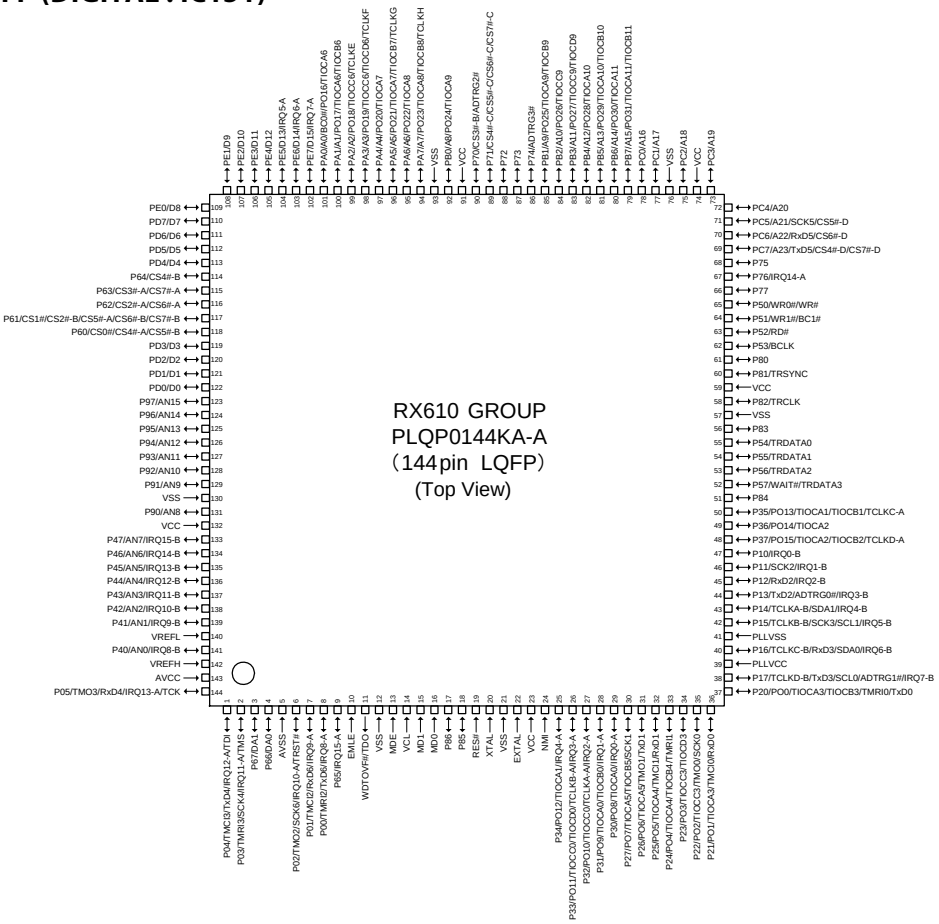


SEMICONDUCTORS

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

1. IC's

R5F56108VNFP (DIGITAL : IC151)



R5F56108VNFP Terminal Functions

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
1	P04/IRQ12-A/TMCI3/ TxD4/TDI	NC	I	M3VPu	-	I	I	I	NC
2	P03/IRQ11-A/TMRI3/ 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.)
5	AVSS	AVSS	-	-	-	-	-	-	GND
6	P02/IRQ10-A/TMO2/ SCK6/TRST#	NC	I	Pd	-	I	I	I	NC
7	P01/IRQ9-A/TMCI2/ 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/TMRI2/ 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

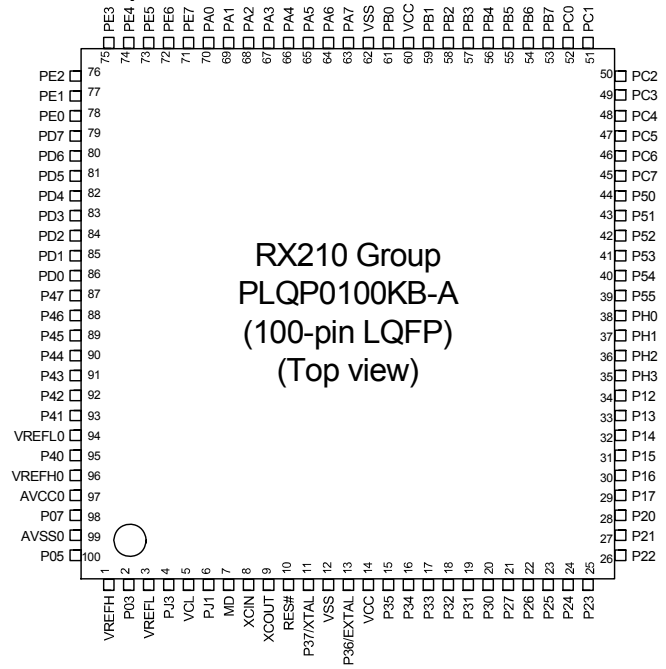
Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
16	MD0	MD0	I	M3VPu	-	-	-	-	NC
17	P86	(CEC POWER2)	O	-	-	L	L	H	Reserve (CEC POWER2 control)
18	P85	REMOTE POWER(232C)	O	-	-	L	L	L	232C POWER SUPPLY (REMOTE 3.3V) control pin.(ON: H)
19	RES#	RESET	I	-	-	-	-	-	Reset input (reset: L)
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	NC	O	-	-	L	O	L	Unused
28	P31/IRQ1-A/PO9/ TIOCA0/TIOCB0	ADV8003 INT1	I	-	-	I	I	I	HDMI transmitter / OSD (ADV8003) INT1 Input 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	NC	O	-	-	L	L	L	Unused
32	P25/PO5/TIOCA4/ TMCI1/RxD1	NC	O	-	-	L	L	L	Unused
33	P24/PO4/TIOCA4/ TIOCB4/TMRI1	TU RST	O	SW3VPu	-	L	L	L	TUNER RESET pin (E3 model)
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/ TMCI0/RxD0	E_RXDMIEO	I	-/-	-	I	I	I	ETHERNET communication control pin (DM860)
37	P20/PO0/TIOCA3/ TIOCB3/TMRI0/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
39	PLLVCC	PLLVCC	-	-	-	-	-	-	+3.3V
40	P16/IRQ6-B/ TCLKC-B/RxD3/SDA0	TU SDIO	I_O	-	-	L	L	L	TUNER control pin
41	PLLVSS	PLLVSS	-	-	-	-	-	-	GND
42	P15/IRQ5-B/ TCLKB-B/SCK3/SCL1	HSCL (400k)	O	CEC3VPu	-	L	L	L	VIDEO I2C Control for - HDMI SW (ADV3002) / HDMI RX , A to H Decoder (ADV7850) / HDMI ip Scaler , TX (ADV8003)
43	P14/IRQ4-B/ TCLKA-B/SDA1	HSDA (400k)	I_O	CEC3VPu	-	L	L	L	VIDEO I2C Control for - HDMI SW (ADV3002) / HDMI RX , A to H Decoder (ADV7850) / HDMI ip Scaler , TX (ADV8003)
44	P13/IRQ3-B/TxD2/ ADTRG0#	ADV8003 SPI MO	O	-	-	L	L	L	OSD control pin (ADV8002 or ADV8003)
45	P12/IRQ2-B/RxD2	ADV8003 SPI MI	I	-	-	L	L	L	OSD control pin (ADV8002 or ADV8003)
46	P11/IRQ1-B/SCK2	ADV8003 SPI CLK	O	-	-	L	L	L	OSD control pin (ADV8002 or ADV8003)
47	P10/IRQ0-B	ADV8003 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/WAIT#/TRDATA3	ADV3002 RST	O	SW3VPu	-	L	L	L	HDMI switcher RESET control pin (ADV3002)

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
53	P56/TRDATA2	E SPI MOEI	O	N3VPu	-	L	L	L	ETHERNET communication control pin (DM860)
54	P55/TRDATA1	ADV8003 RST	O	SW3VPu	-	L	L	L	HDMI Tx/ip Scaler/OSD RESET control pin (ADV8003)
55	P54/TRDATA0	E SPI MIEO	I	N3VPu	-	I	L	I	ETHERNET communication control pin (DM860)
56	P83	E SPI CLK	O	N3VPu	-	L	L	L	ETHERNET communication control pin (DM860)
57	VSS	VSS	-	-	-	-	-	-	GND
58	P82/TRCLK	FL CE	O	-	-	L	L	L	VFD control pin
59	VCC	VCC	-	-	-	-	-	-	+3.3V
60	P81/TRSYNC	FL RST	O	-	-	L	L	L	VFD control pin
61	P80	ZVOL DATA	O	-	-	L	L	L	ZONE VOLUME control pin (NJW1194)
62	BCLK/P53	NC	I	-	-	I	I	I	NC
63	P52/RD#	ZVOL CLK	O	-	-	L	L	L	ZONE VOLUME control pin (NJW1194)
64	P51/WR1#/BC1#	ZVOL STB	O	-	-	L	L	L	ZONE VOLUME control pin (NJW1194)
65	P50/WR0#/WR#	V SDA	O	-	-	L	L	L	A-VIDEO switcher control pin (AVDM-2000)
66	P77	V SCL	O	-	-	L	L	L	A-VIDEO switcher control pin (AVDM-2000)
67	P76/IRQ14-A	TU GPO2_INT	I	-	-	L	L	L	TUNER GPIO2 input pin
68	P75	DSP ROMRST	O	-	-	I	I	I	Memory reset for DSP (Reset : L)
69	PC7/A23/CS4#-D/ CS7#-D/TxD5	DSP MOSI	O	DA3VPu	-	L	L	L	DSP control pin (ADSP21487KSWZ-3B)
70	PC6/A22/CS6#-D/ RxD5	DSP MISO	I	DA3VPu	-	L	L	L	DSP control pin (ADSP21487KSWZ-3B)
71	PC5/A21/CS5#-D/ SCK5	DSPI CLK	O	DA3VPu	-	L	L	L	DSP control pin (ADSP21487KSWZ-3B)
72	PC4/A20	DSP RST	O	-	-	L	L	L	DSP(ADSP21487KSWZ-3B) reset output pin (Reset : L)
73	PC3/A19	DSP FLAG0	I	Pd	-	L	L	L	DSP control pin (ADSP21487KSWZ-3B)
74	VCC	VCC	-	-	-	-	-	-	+3.3V
75	PC2/A18	DSP ICS	O	DA3VPu	-	L	L	L	DSP control pin (ADSP21487KSWZ-3B)
76	VSS	VSS	-	-	-	-	-	-	GND
77	PC1/A17	GRN LED	O	-	-	L	L	L	POWER LED control pin(ON:H)
78	PC0/A16	RED LED	O	-	-	L	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	CEC SEL	O	-	-	L	L	L	CEC output LINE switching
93	VSS	VSS	-	-	-	-	-	-	GND
94	PA7/A7/PO23/ TIOCA8/TIOCB8/ TCLKH	NC	O/O	-/-	-	L	L	L	Unused
95	PA6/A6/PO22/ TIOCA8	VSEL A	I	-	-	I	I	I	Master Volume rotation detection pin(Rotary encoder)

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
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)
99	PA2/A2/PO18/ TIOCC6/TCLKE	PRE Z2 MUTE	O	-	-	L	L	L	Z2 PRE OUT MUTE control pin
100	PA1/A1/PO17/ TIOCA6/TIOCB6	NC	O	-	-	L	L	L	Unused
101	PA0/A0/BC0#/PO16/ TIOCA6	PRE MUTE	O	-	-	L	L	L	Sub Woofer PRE OUT MUTE control pin
102	PE7/IRQ7-A/D15	ADV8003 INT2	I	-	-	I	I	I	HDMI TX1.0SD INT2 input pin (ADV8003)
103	PE6/IRQ6-A/D14	ADV7850 INT1	I	-	-	I	I	I	HDMI RX INT1 input pin (ADV7850)
104	PE5/IRQ5-A/D13	ADV7850 INT2	I	-	-	L	L	L	HDMI RX INT2 input pin (ADV7850)
105	PE4/D12	ISEL A	I/O	-	-	I/L	I/L	I/L	Input Selector rotation detection pin(Rotary encoder)
106	PE3/D11	ISEL B	I/O	-	-	I/L	I/L	I/L	Input Selector rotation detection pin(Rotary encoder)
107	PE2/D10	VOL CLK	O	-	-	L	L	L	FUNCTION / VOLUME control pin (R2A15218)
108	PE1/D9	VOL DATA	O	-	-	L	L	L	FUNCTION / VOLUME control pin (R2A15218)
109	PE0/D8	PLD WRITE	O	-	-	L	L	L	A.PLD /JTAG switching control pin
110	PD7/D7	JTAG TDO	I	-	-	L	L	L	A.PLD rewriting control pin (JTAG)
111	PD6/D6	JTAG TMS/APLD CS	O/O	-	-	L	L	L	A.PLD rewriting & control pin
112	PD5/D5	JTAG TDI/APLD DATA/DAC DATA	O/O	-	-	L	L	L	A.PLD rewriting & control /DAC control pin
113	PD4/D4	JTAG TCK/APLD CLK/DAC CLK	O/O	-	-	L	L	L	A.PLD rewriting & control /DAC control pin
114	P64/CS4#-B	ADC RST	O	-	-	L	L	L	A/D converter control pin (AK5358B)
115	P63/CS3#-A/CS7#-A	NC	O	-	-	L	L	L	Unused
116	P62/CS2#-A/CS6#-A	E SPI CS	O	N3VPu	-	L	L	L	ETHERNET communication control pin(DM860)
117	P61/CS1#/CS2#-B/ CS5#-A/CS6#-B/ CS7#-B	DAC MS	O	-	-	L	L	L	D/A converter control pin (AK4358VQ)
118	P60/CS0#/CS4#-A/ CS5#-B	DAC RST	O	-	-	L	L	L	D/A converter control pin (AK4358VQ)
119	PD3/D3	NC	O	-	-	L	L	L	Unused
120	PD2/D2	NC	O	-	-	L	L	L	Unused
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)
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

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
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/ RxD4/TCK	NC	I	M3VPu	-	I	I	I	NC

R5F5210ABDFP (DIGITAL : IC171)



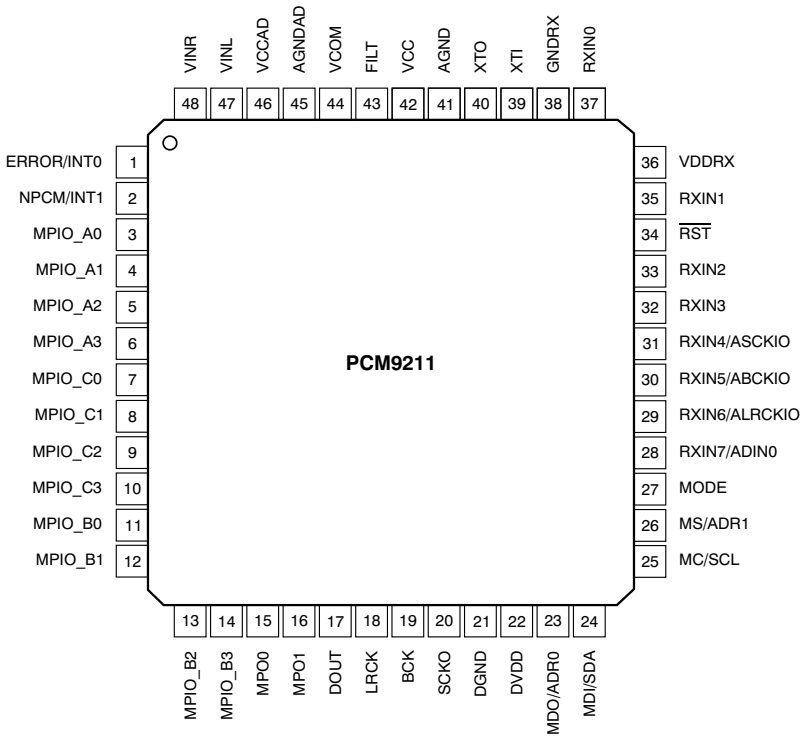
R5F5210ABDFP Terminal Functions

Pin	Symbol	Pin Name	I/O	Pu/Pd	LvCnv	STBY	CEC STBY	Function
1	VREFH	VREFH	-	-	-	-	-	+3.3V
2	P03/DA0	NET/HDMI	O	C	-	Z	L	VPLD control pin (H:NET/WiFi/USB/BT,L:HDMI)
3	VREFL	VREFL	-	-	-	-	-	GND
4	PJ3	778_3/778_2	O	C	-	Z	-	Audio data Bus control pin (HDMI input) (H:MN8647781_3,L:MN8647781_2)
5	VCL	VCL	I	-	-	-	-	Smoothing capacitor connection pin
6	PJ1	TX/RX	O	C	-	Z	-	NC
7	MD	MD	I	-	SCPU 3VPu	-	-	Single-chip/Micro-processor mode switching (Normal single-chip : L, Rewrite boot program start : H input set)
8	XCIN	XCIN	I	-	-	-	-	NC
9	XCOUT	XCOUT	O	-	-	-	-	NC
10	RES#	SUB_RESET	I	-	SCPU 3VPu	Z	-	Reset input
11	XTAL/P37	XTAL	O	-	-	-	-	Oscillator connection
12	VSS	VSS	-	-	-	-	-	GND
13	EXTAL/P36	EXTAL	I	-	-	-	-	Oscillator connection
14	VCC	VCC	-	-	-	-	-	+3.3V
15	P35/NMI(input)	NMI	I	-	SCPU 3VPu	-	-	NC
16	P34/SCK6/IRQ4	CEC_OUT	O	C	-	Z	-	CEC-D signal output pin
17	P33/RXD6/SSCL6/IRQ3-DS	778_2_HAINT	I	-	-	Z	-	HDMI MN8647781(RX) Audio INT input pin
18	P32/TXD6/SSDA6/IRQ2-DS	CEC_IN	I	-	SCPU 3VPu	Z	-	CEC-D signal input pin
19	P31/IRQ1-DS	ACKSIMO	I	-	-	Z	-	MAIN-SUB ucom communication control pin
20	P30/RXD1/SSCL1/IRQ0DS	SCPURXD	I	-	Pd	Z	-	Data reception input from the external
21	P27/SCK1	DIRCE	O	C	-	Z	L	DIR control pin(PCM9211)
22	P26/TXD1/SSDA1	SCPUTXD	O	C	SCPU 3VPu	Z	-	Data transmission output to external
23	P25	DIRDOUT	I	-	DA 3.3Pu	Z	-	DIR control pin(PCM9211)
24	P24	DIRCLK	O	C	-	Z	L	DIR control pin(PCM9211)
25	P23	REQSOMI	O	C	-	Z	-	MAIN-SUB ucom communication control pin
26	P22/SCK0	CLKSIMO	I	-	-	Z	-	MAIN-SUB ucom communication control pin
27	P21/RXD0/SSCL0	SIMO	I	-	-	Z	-	MAIN-SUB ucom communication control pin
28	P20/TXD0/SSDA0	SOMI	O	C	-	Z	-	MAIN-SUB ucom communication control pin
29	P17/SCK1/IRQ7	DIRRST	O	C	-	O/L	L	DIR control pin(PCM9211)
30	P16/TXD1/SSDA1/IRQ6	DIRDIN	O	C	-	Z	L	DIR control pin(PCM9211)
31	P15/RXD1/SSCL1/IRQ5	SUB_BDOWN	I	-	-	Z	-	Power failure detect(Power failure:L)
32	P14/IRQ4	NC	O	C	-	Z	-	NC
33	P13/SDA/IRQ3	NC	O	C	-	Z	-	NC
34	P12/SCL/IRQ2	778_1_RST	O	C	Pd	Z	※	HDMI MN8647781(TX) RESET control pin

Pin	Symbol	Pin Name	I/O	Pu/Pd	LvCnv	STBY	CEC STBY	Function
35	PH3	HSDA	I/O	C	CEC 3VPu	O/L	L	HDMI I2C- MN8647781
36	PH2/IRQ1	HSCL	I/O	C	CEC 3VPu	O/L	L	HDMI I2C- MN8647781
37	PH1/IRQ0	778_1_HINT	I	-	-	Z	-	HDMI MN8647781(TX) HDMI INT input pin
38	PH0	778_2_RST	O	C	Pd	Z	※	HDMI MN8647781(RX) RESET control pin
39	P55	778_2_HINT	I	-	-	Z	-	HDMI MN8647781(RX) HDMI INT input pin
40	P54	778_3_RST	O	C	Pd	Z	※	HDMI MN8647781(RX) RESET control pin
41	BCLK/P53	778_3_HINT	I	-	-	Z	-	HDMI MN8647781(RX) HDMI INT input pin
42	P52	IP_RST	O	C	Pd	Z	L	HDMI ADV8003 RESET control pin
43	P51	DE_RST	O	C	Pd	Z	L	HDMI ADV7850 RESET control pin
44	P50	DE_INT	I	-	-	Z	-	HDMI ADV7850 HDMI INT input pin
45	PC7/TXD8/SSDA8	UB	I	-	Pd	Z	-	Unused
46	PC6/RXD8/SSCL8	HINSELA	O	C	-	Z	-	TC74VHC4051AFT control pin. (Control the detection of HDMI 5V INPUT for CEC STANDBY.)
47	PC5/SCK8	HINSELB	O	C	-	Z	-	TC74VHC4051AFT control pin. (Control the detection of HDMI 5V INPUT for CEC STANDBY.)
48	PC4/SCK5	HINSELC	O	C	-	Z	-	TC74VHC4051AFT control pin. (Control the detection of HDMI 5V INPUT for CEC STANDBY.)
49	PC3/TXD5/SSDA5	DSPMOSI	O	C	DA3 VPu	Z	L	DSP control pin (ADSP21487KSWZ-3B)
50	PC2/RXD5/SSCL5	DSPMISO	I	-	DA3 VPu	Z	-	DSP control pin (ADSP21487KSWZ-3B)
51	PC1/SCK5	DSPICLK	O	C	DA3 VPu	Z	L	DSP control pin (ADSP21487KSWZ-3B)
52	PC0	DA_POWER	O	C	-	Z	L	DIGITAL AUDIO POWER SUPPLY (DA3.3V & DA1.1V) control pin.(ON:H)
53	PB7/TXD9/SSDA9	AVSDA	I/O	C	DV3 VPu	O/L	L	VIDEO I2C- ADV8003/ADV7850
54	PB6/RXD9/SSCL9	AVSCL	I/O	C	DV3 VPu	O/L	L	VIDEO I2C- ADV8003/ADV7850
55	PB5/SCK9	CEC_POWER	O	C	-	Z	※	HDMI CEC POWER SUPPLY control pin (CEC5V,CEC3.3V,CEC1.8V)
56	PB4	DV_POWER1	O	C	-	Z	L	Digital VIDEO POWER SUPPLY control pin (DV5V,DV3.3V)
57	PB3/SCK8	DV_POWER2	O	C	-	Z	-	Digital VIDEO POWER SUPPLY control pin (DV1.8V)
58	PB2	H5VDET	I	-	-	Z	-	HDMI INPUT 5V (for EDID / HOT PLUG) detection pin
59	PB1/TXD6/SSDA6/IRQ4-DS	778_3_HAINT	I	-	-	Z	-	HDMI MN8647781(RX) Audio INT input pin
60	VCC	VCC	-	-	-	-	-	+3.3V
61	PB0/RXD6/SSCL6	NC	O	C	-	Z	-	NC
62	VSS	VSS	-	-	-	-	-	GND
63	PA7	HPD8	O	C	-	Z	L	HPD8 output pin
64	PA6	HPD7	O	C	-	Z	L	HPD7 output pin
65	PA5	HPD6	O	C	-	Z	L	HPD6 output pin
66	PA4/TXD5/SSDA5/IRQ5-DS	HPD5	O	C	-	Z	L	HPD5 output pin
67	PA3/RXD5/SSCL5/IRQ6-DS	HPD4	O	C	-	Z	L	HPD4 output pin
68	PA2/RXD5/SSCL5	HPD3	O	C	-	Z	L	HPD3 output pin
69	PA1/SCK5	HPD2	O	C	-	Z	L	HPD2 output pin
70	PA0	HPD1	O	C	-	Z	L	HPD1 output pin
71	PE7/IRQ7/AN015	APLDCK	O	C	-	Z	L	A.PLD control pin
72	PE6/IRQ6/AN014	APLDCS	O	C	-	O/L	L	A.PLD control pin
73	PE5/IRQ5/AN013	APLDDI	O	C	-	Z	L	A.PLD control pin
74	PE4/AN012	SUB_TCK	O	C	Pd	Z	L	A.PLD/V.PLD rewriting pin(JTAG)
75	PE3/AN011	SUB_TDI	O	C	DA 3.3Pu	Z	L	A.PLD/V.PLD rewriting pin(JTAG)
76	PE2/RXD12/SSCL12/IRQ7-DS/AN010	SUB_TDO	I	-	-	Z	L	A.PLD/V.PLD rewriting pin(JTAG)
77	PE1/TXD12/SSDA12/ AN009	SUB_TMS	O	C	DA 3.3Pu	Z	L	A.PLD/V.PLD rewriting pin(JTAG)
78	PE0/SCK12/AN008	DACRST1	O	C	-	Z	L	D/A converter control pin(PCM1690)
79	PD7/IRQ7	NC	O	C	-	Z	-	NC
80	PD6/IRQ6	DACMC	O	C	-	Z	L	D/A converter control pin(PCM1690)
81	PD5/IRQ5	DACMD	O	C	-	Z	L	D/A converter control pin(PCM1690)
82	PD4/IRQ4	DACMS1	O	C	-	Z	L	D/A converter control pin(PCM1690)
83	PD3/IQR3	NC	O	C	-	Z	-	NC
84	PD2/IRQ2	DSP1RST	O	C	-	Z	L	DSP(ADSP21487KSWZ-3B) reset output pin (Reset : L)

Pin	Symbol	Pin Name	I/O	Pu/Pd	LvCnv	STBY	CEC STBY	Function
85	PD1/IRQ1	DSP1CS	O	C	DA 3VPu	Z	L	DSP control pin (ADSP21487KSWZ-3B)
86	PD0/IRQ0	DSP1FLAG0	I	-	Pd	Z	-	DSP control pin (ADSP21487KSWZ-3B)
87	P47/AN007	NC	O	C	-	Z	-	NC
88	P46/AN006	VIN A	O	C	-	Z	-	COMPOSITE VIDEO SELECT IC(NJM2595)
89	P45/AN005	VIN B	O	C	-	Z	-	COMPOSITE VIDEO SELECT IC(NJM2595)
90	P44/AN004	VIN C	O	C	-	Z	-	COMPOSITE VIDEO SELECT IC(NJM2595)
91	P43/AN003	COMP SW1	O	C		O/L	L	COMPONENT VIDEO SELECT IC(NJM2586)
92	P42/AN002	COMP SW2	O	C		O/L	L	COMPONENT VIDEO SELECT IC(NJM2586)
93	P41/AN001	NC	O	C	-	Z	-	NC
94	VREFL0	VREFL0	-	-	-	-	-	GND
95	P40/AN000	NC	O	C	-	Z	-	NC
96	VREFH0	VREFH0	-	-	-	-	-	+3.3V
97	AVCC0	AVCC	-	-	-	-	-	+3.3V
98	P07	NC	O	C	-	Z	-	NC
99	AVSS0	AVSS0	-	-	-	-	-	GND
100	P05	TXEN	O	C	-	Z	-	Front HDMI INPUT (AD8195) control pin

PCM9211 (DIGITAL : IC202)



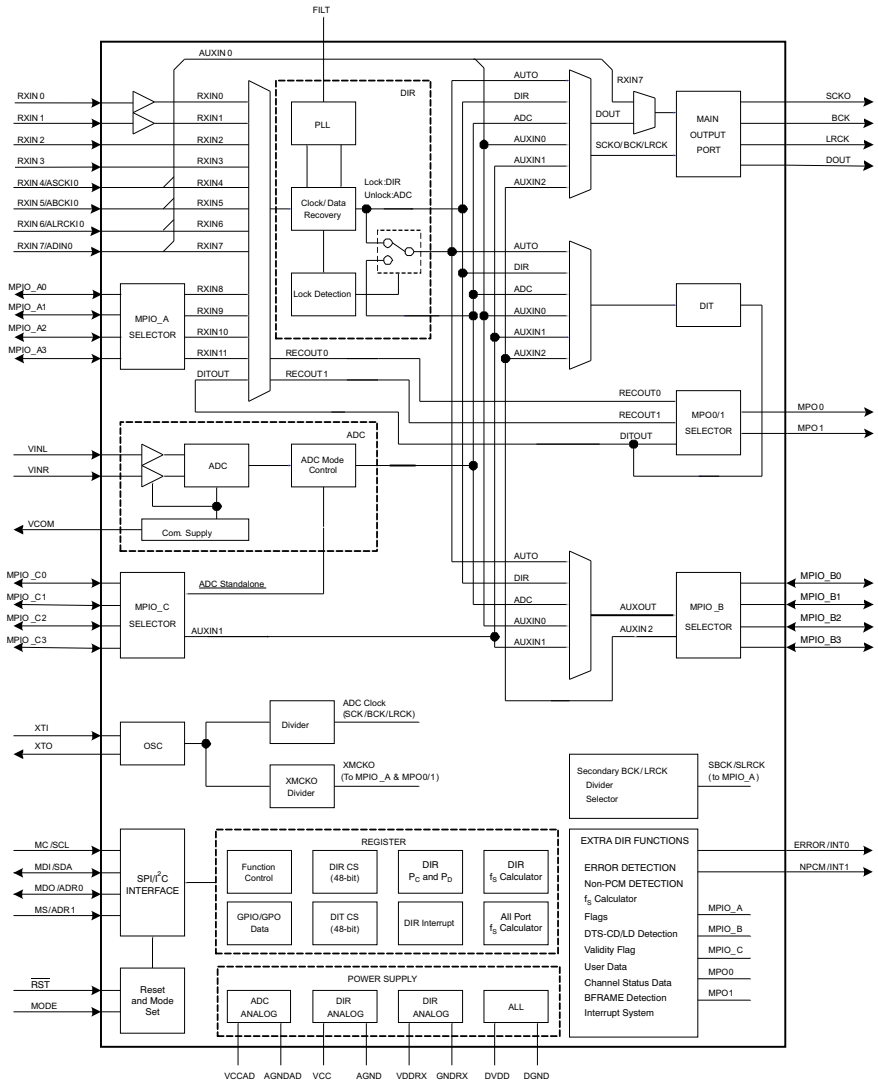
PIN Functions

PIN				DESCRIPTION
NO.	NAME	I/O	5-V TOLERANT	
1	ERROR/INT0	O	No	DIR Error detection output / Interrupt0 output
2	NPCM/INT1	O	No	DIR Non-PCM detection output / Interrupt1 output
3	MPIO_A0	I/O	Yes	Multipurpose I/O, Group A(1)
4	MPIO_A1	I/O	Yes	Multipurpose I/O, Group A(1)
5	MPIO_A2	I/O	Yes	Multipurpose I/O, Group A(1)
6	MPIO_A3	I/O	Yes	Multipurpose I/O, Group A(1)
7	MPIO_C0	I/O	Yes	Multipurpose I/O, Group C(1)
8	MPIO_C1	I/O	Yes	Multipurpose I/O, Group C(1)
9	MPIO_C2	I/O	Yes	Multipurpose I/O, Group C(1)
10	MPIO_C3	I/O	Yes	Multipurpose I/O, Group C(1)
11	MPIO_B0	I/O	Yes	Multipurpose I/O, Group B(1)
12	MPIO_B1	I/O	Yes	Multipurpose I/O, Group B(1)
13	MPIO_B2	I/O	Yes	Multipurpose I/O, Group B(1)
14	MPIO_B3	I/O	Yes	Multipurpose I/O, Group B(1)
15	MPO0	O	No	Multipurpose output 0
16	MPO1	O	No	Multipurpose output 1
17	DOUT	O	No	Main output port, serial digital audio data output
18	LRCK	O	No	Main output port, LR clock output
19	BCK	O	No	Main output port, Bit clock output
20	SCKO	O	No	Main output port, System clock output
21	DGND	–	–	Ground, for digital
22	DVDD	–	–	Power supply, 3.3 V (typ.), for digital
23	MDO/ADR0	I/O	Yes	Software control I/F, SPI data output / I2C slave address setting0(2)
24	MDI/SDA	I/O	Yes	Software control I/F, SPI data input / I2C data input/output(2) (3)
25	MC/SCL	I	Yes	Software control I/F, SPI clock input / I2C clock input(2)
26	MS/ADR1	I	Yes	Software control I/F, SPI chip select / I2C slave address setting1(2)
27	MODE	I	No	Control mode setting, (see the Serial Control Mode section, Control Mode Pin Setting)
28	RXIN7/ADIN0	I	Yes	Biphase signal, input 7 / AUXIN0, serial audio data input(2)
29	RXIN6/ALRCKI0	I	Yes	Biphase signal, input 6 / AUXIN0, LR clock input(2)
30	RXIN5/ABCKI0	I	Yes	Biphase signal, input 5 / AUXIN0, bit clock input(2)
31	RXIN4/ASCKI0	I	Yes	Biphase signal, input 4 / AUXIN0, system clock input(2)
32	RXIN3	I	Yes	Biphase signal, input 3(2)
33	RXIN2	I	Yes	Biphase signal, input 2(2)
34	RST	I	Yes	Reset Input, active low(2) (4)
35	RXIN1	I	Yes	Biphase signal, input 1, built-in coaxial amplifier

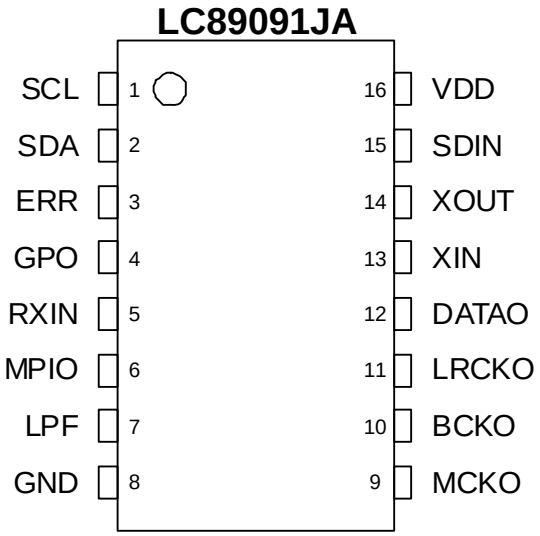
PIN				DESCRIPTION
NO.	NAME	I/O	5-V TOLERANT	
36	VDDRX	–	–	Power supply, 3.3 V (typ.), for RXIN0 and RXIN1.
37	RXIN0	I	Yes	Biphase signal, input 0, built-in coaxial amplifier
38	GNDRX	-	-	Ground, for RXIN
39	XTI	I	No	Oscillation circuit input for crystal resonator or external XTI clock source input(5)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

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

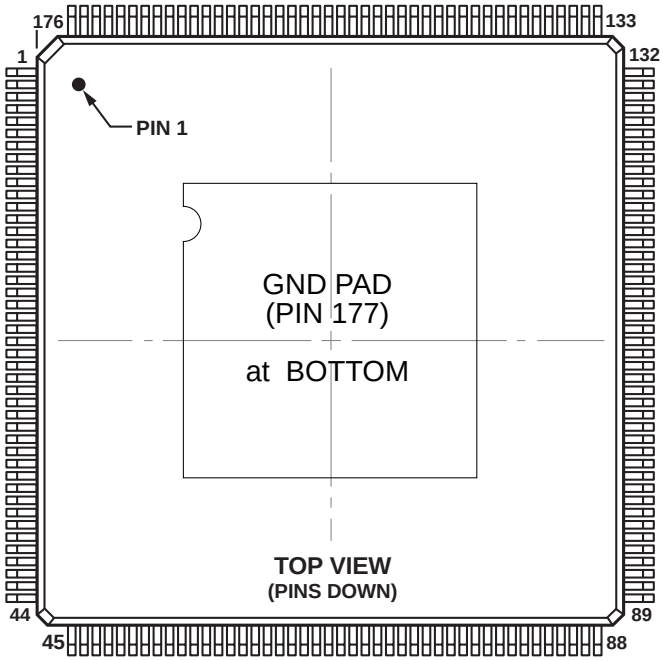
PCM9211 BLOCK DIAGRAM



LC89091JA (DIGITAL : IC202)



ADSP21487KSWZ4B (DIGITAL : IC251 / IC261 / IC271 / IC281)



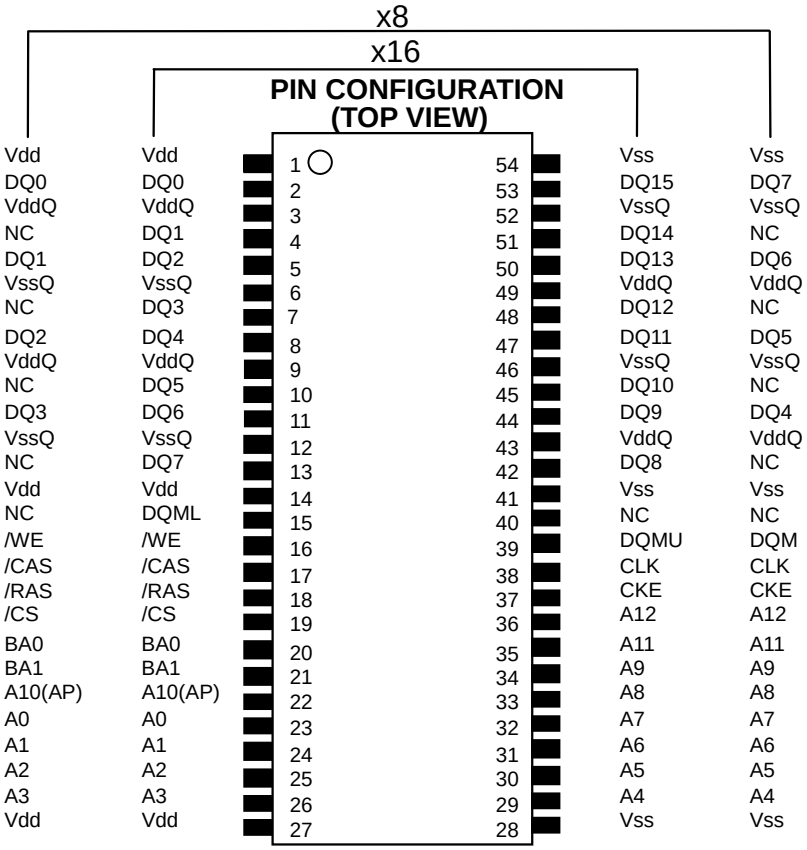
ADSP21487KSWZ3B Terminal Function

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

* at BOTTOM

A3V64S40GTP-60(DIGITAL : IC252 / IC262 / IC272 / IC282)

PIN CONFIGURATION (TOP VIEW)

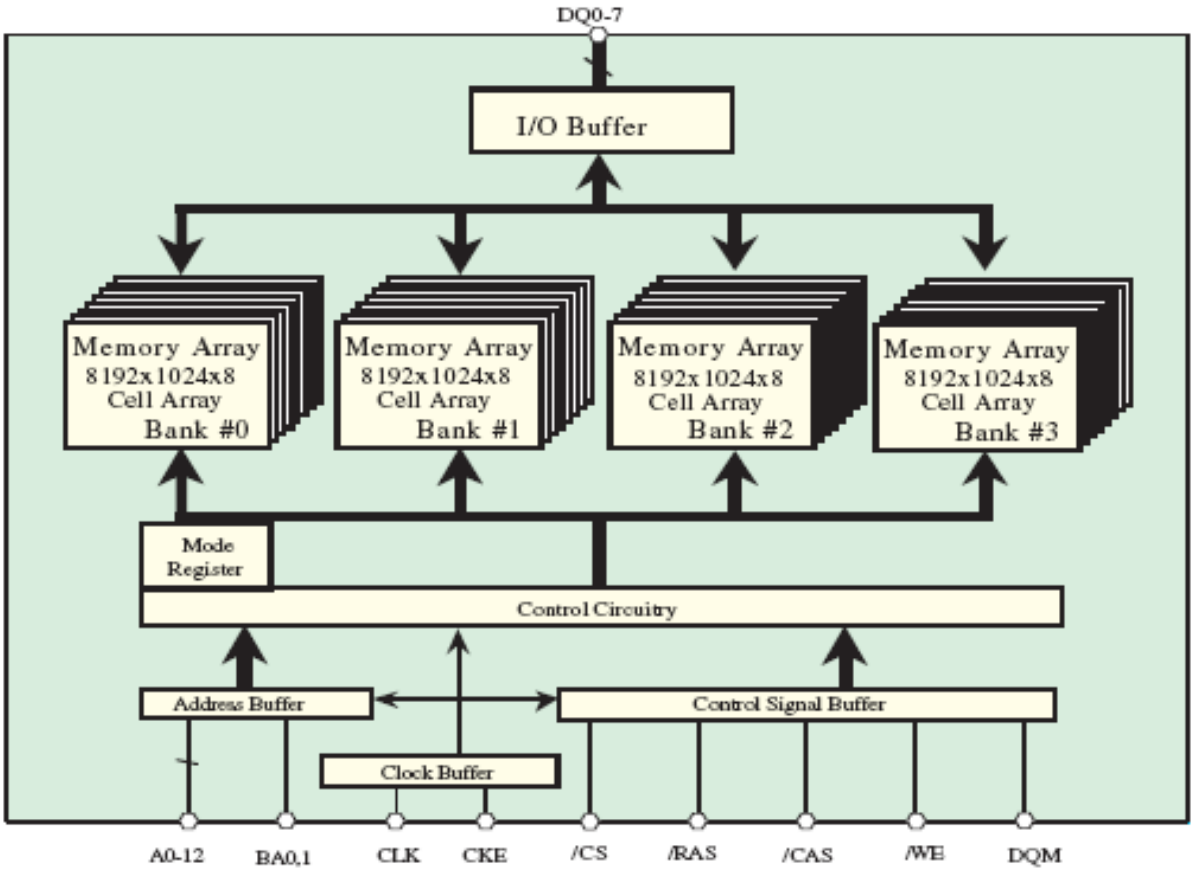


A3V64S40GTP-60 Pin Function

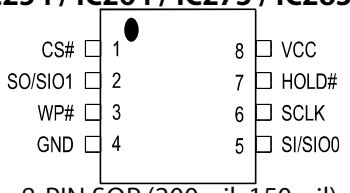
Pin Descriptions

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

A3V64S40GTP-60 Block Diagram

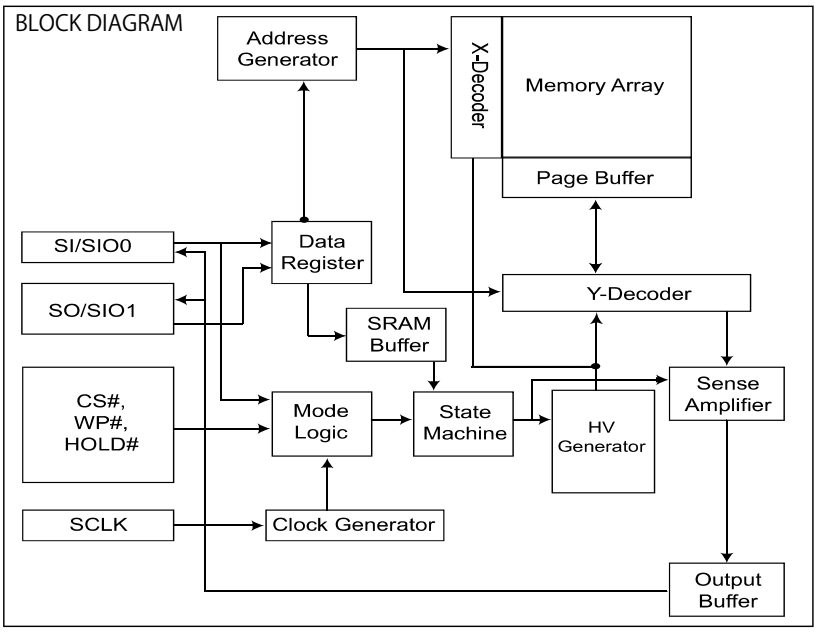


MX25L1606EM2I-12G(DIGITAL : IC254 / IC264 / IC273 / IC283)



8-PIN SOP (200mil, 150mil)

MX25L1606EM2I-12G Block Diagram



PCM5100 (DIGITAL : IC321 / IC322)

PCM510X (top view)

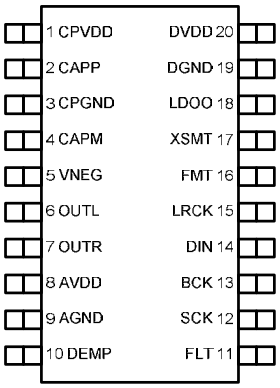


Table 2. TERMINAL FUNCTIONS, PCM510x

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

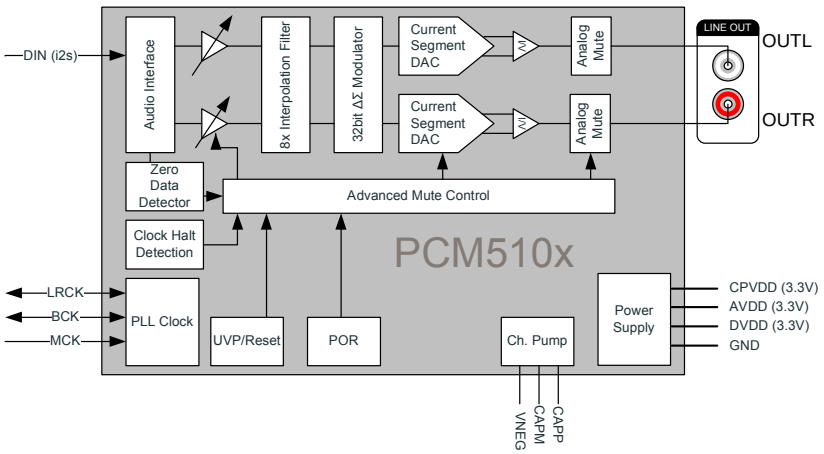
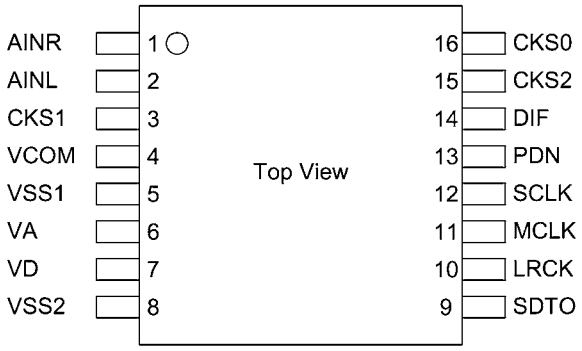


Figure 1. PCM510x Functional Block Diagram

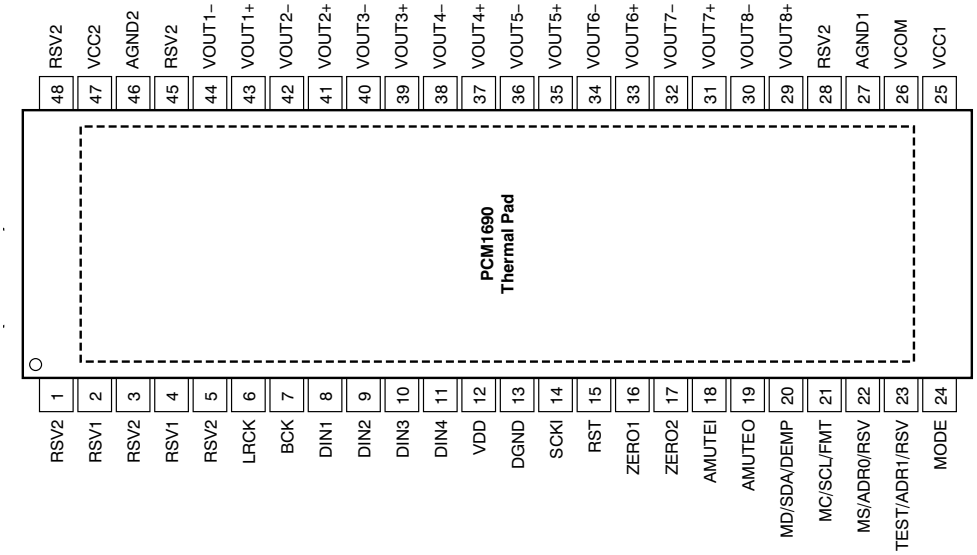
AK5358BET (DIGITAL : IC306)



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, VA/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^2S Compatible, "L": 24bit MSB justified
15	CKS2	I	Mode Select 2 Pin
16	CKS0	I	Mode Select 0 Pin

PCM1690(FRONT CNT : IC301 / IC311)



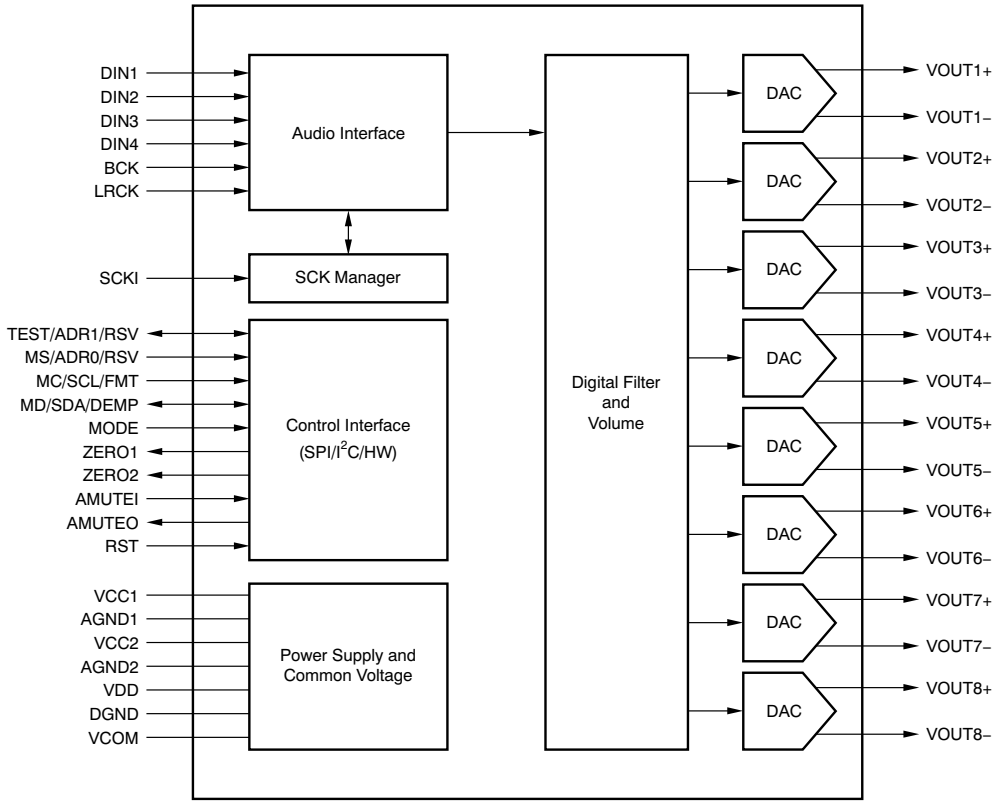
PCM1690 Pin Function

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

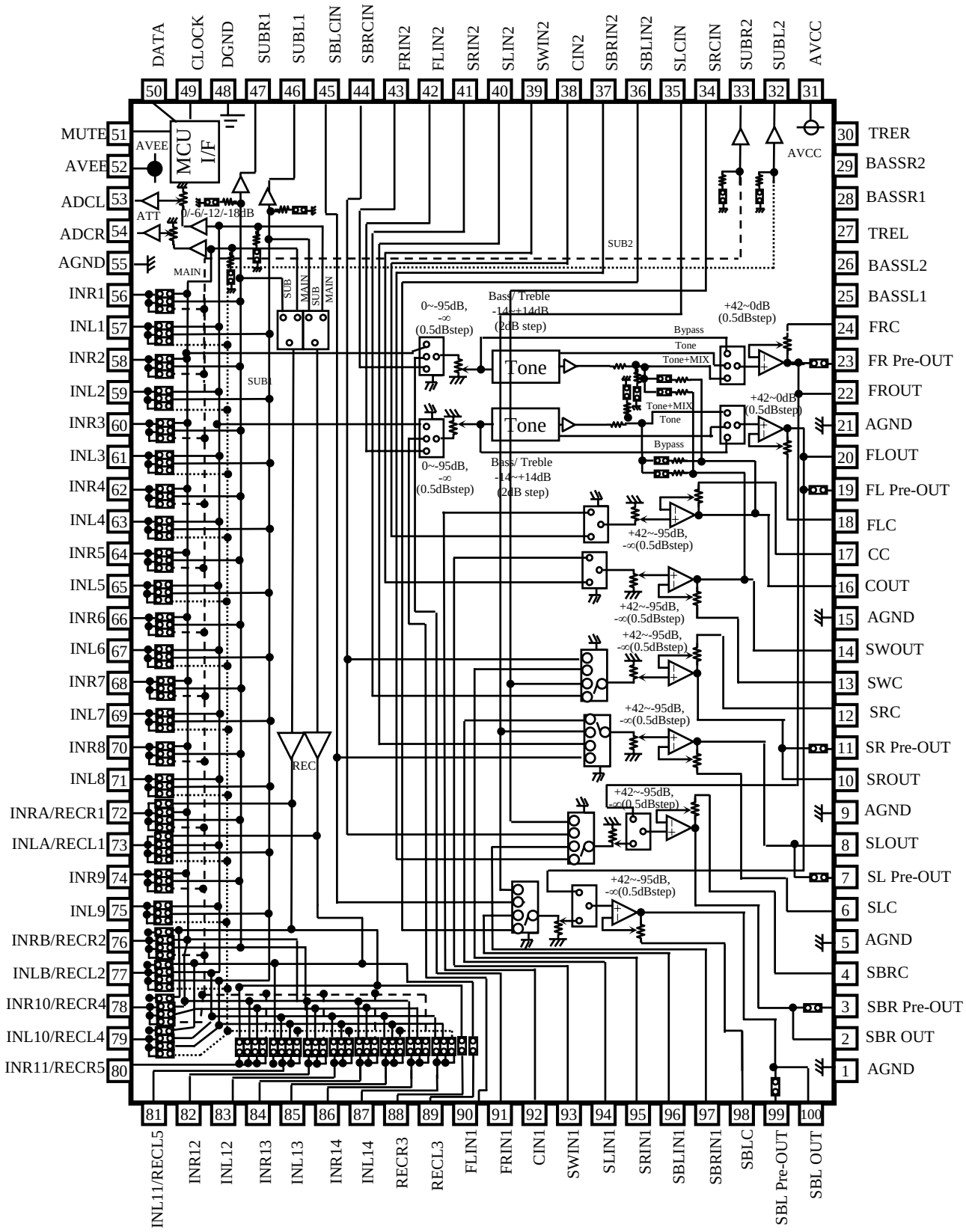
TERMINAL		I/O	PULL-DOWN	5-V TOLERANT	DESCRIPTION
NAME	PIN				
VOUT1+	43	O	No	No	Positive analog output from DAC1
VOUT1-	44	O	No	No	Negative analog output from DAC1
RSV2	45	—	—	—	Reserved, tied to analog ground
AGND2	46	—	—	—	Analog ground 2
VCC2	47	—	—	—	Analog power supply 2, +5 V
RSV2	48	—	—	—	Reserved,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

(1) Open-drain configuration in out mode.

PCM1690 FUNCTIONAL BLOCK DIAGRAM



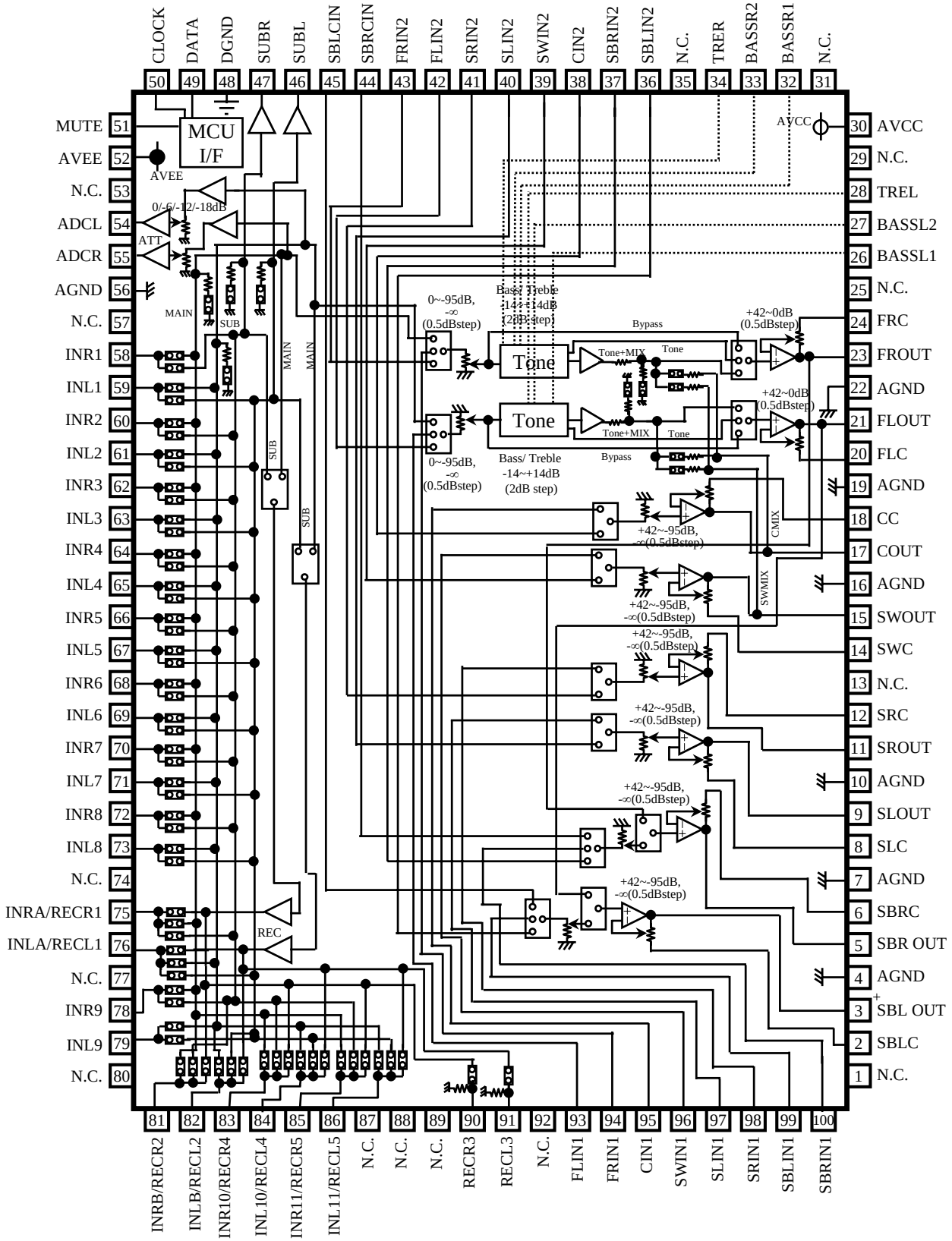
R2A15220FP (INPUT : IC471)



R2A15220FP Pin Function

PIN No.	Name	Function
22,20, 16,14, 10, 8, 2, 100	FROUT,FLOUT, COUT,SWOUT, SROUT, SLOUT, SBROUT,SBLOUT	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
23,19, 11, 7, 3, 99	FR Pre-out,FL Pre-out, SR Pre-out, SL Pre-out, SBR Pre-out,SBL Pre-out	Pre-output pin of FL/FR/SL/SR/SBL/SBR channel
24,18, 17,13, 12, 6, 4, 98	FRC,FLC, CC,SWC, SRC,SLC, SBRC,SBLC	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
1,5,9,15, 21,55,98	AGND	Analog ground of internal circuit
27,30	TREL, TRER	Frequency characteristic setting pin of L/R channel tone control (Treble)
25,26, 28,29	BASSL1,BASSL2 BASSR1,BASSR2	Frequency characteristic setting pin of L/R channel tone control (Bass)
31	AVCC	Positive power supply to internal circuit
43,42, 41,40, 39,38, 37,36	FRIN2, FLIN2, SRN2,SLIN2, SWIN2,CIN2, SBRIN2,SBLIN2	Multi Input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
90,91, 92,93, 94,95, 96,97	FLIN1, FRIN1, CIN1,SWIN1, SLIN1,SRIN1, SBLIN1,SBRIN1	
48	DGND	Digital ground of internal circuit
49	DATA	Input pin of control data
50	CLOCK	Input pin of control clock
52	AVEE	Negative power supply to internal circuit
57,59,61,63, 65,67,69,71, 75,83,85,87	INL1,INL2, INL3,INL4, INL5,INL6,INL7,INL8, INL9,INL12,INL13,INL14	Input pin of L/R channel (Input Selector)
56,58,60,62, 64,6668,70, 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	3rd 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

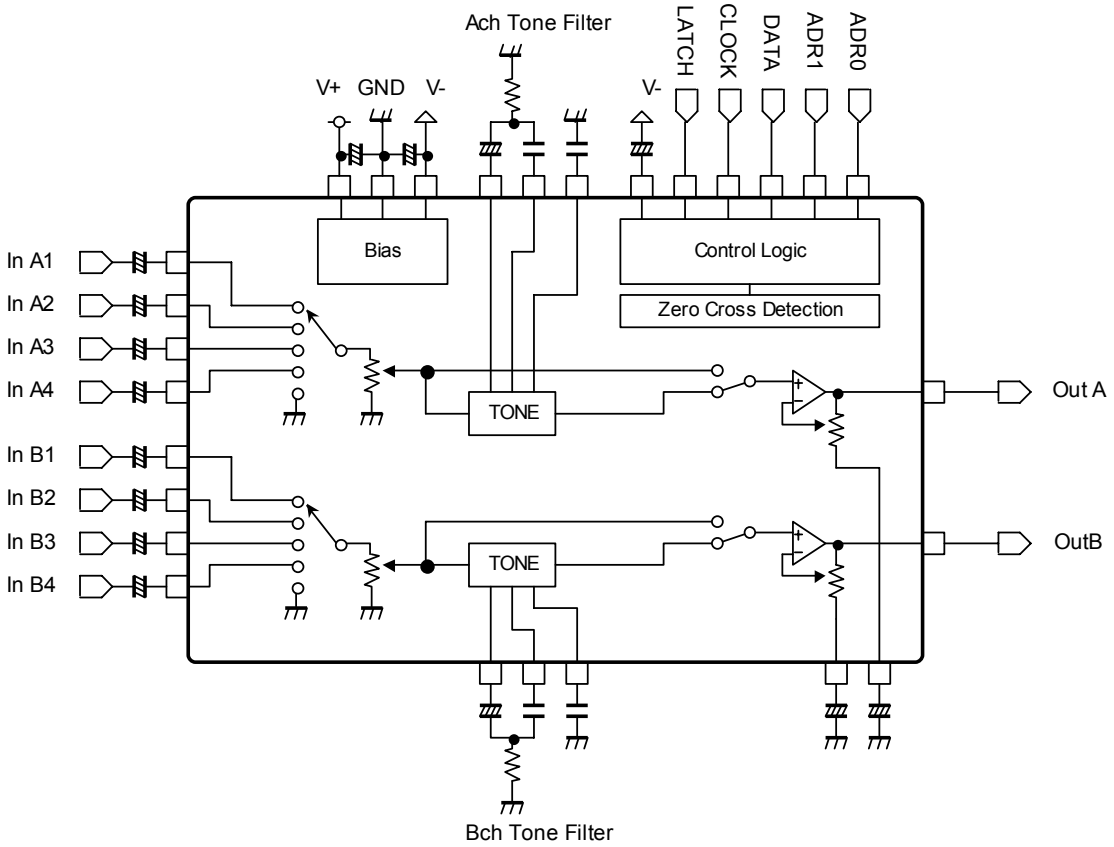
R2A15218FP (INPUT:IC491)



R2A15218FP Pin Function

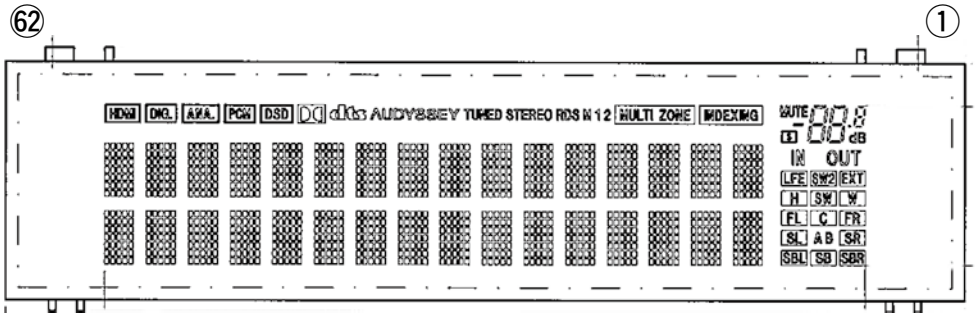
PIN No.	Name	Function
23,21, 17,15, 11,9, 5,3	FROUT,FLOUT, COUT,SWOUT, SROUT, SLOUT, SBROUT,SBLOUT	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
24,20, 18,14, 12,8, 6,2	FRC,FLC, CC,SWC, SRC,SLC, SBRC,SBLC	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
4,7,10,16, 19,22,56	AGND	Analog ground of internal circuit
28,34	TREL, TRER	Frequency characteristic setting pin of L/R channel tone control (Treble)
26,27, 32,33	BASSL1,BASSL2 BASSR1,BASSR2	Frequency characteristic setting pin of L/R channel tone control (Bass)
30	AVCC	Positive power supply to internal circuit
43,42, 41,40, 39,38, 37,36	FRIN2, FLIN2, SRN2,SLIN2, SWIN2,CIN2, SBRIN2,SBLIN2	Input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
93,94, 95,96, 97,98, 99,100	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
59,61,63, 65,67,69, 71,73,79	INL1,INL2, INL3, INL4,INL5,INL6, INL7,INL8,INL9	Input pin of L/R channel (Input Selector)
58,60,62, 64,66,68, 70,72,78	INR1,INR2, INR3, INR4,INR5,INR6, INR7,INR8,INR9	
51	MUTE	Outside Mute Control PIN
44,45	SBRCIN,SBLCIN	Input pin for SBL/SBR channel Volume
46,47	SUBL,SUBR	Output pin for L/R channel SUB Output
54,55	ADCL, ADCR	Output pin for L/R channel ADC
90,91	RECR3,RECL3	Output pin for L/R channel REC Output
75,76, 81,82, 83,84, 85,86	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
1,13,25,29,31, 35,53, 57,74,77,80, 87,88,89,92	N.C.	No Connected PIN

NJW1194A (INPUT : IC484)



2. FL DISPLAY

FLD (17-BT-40GINK) (FRONT : FL601)



PIN CONNECTION

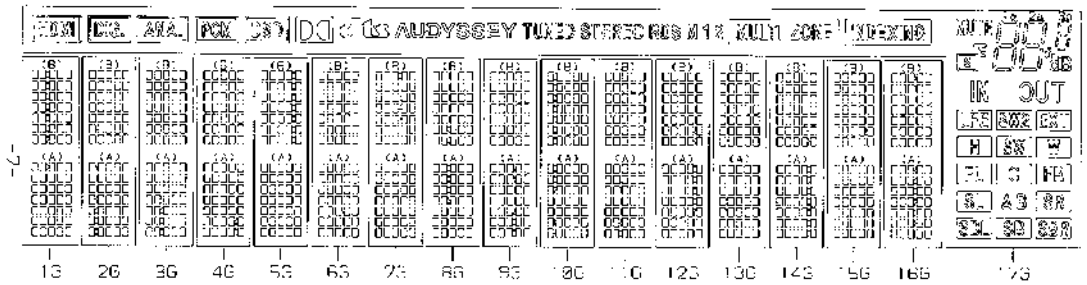
PIN CONNECTION

PIN NO.	62	61	60	59	58	57	56	55	54	53	52	51
CONNECTION	F2	NX	NP	NP	LGND	PGND	VH	VDD	OSC	-RESET	-CS	CP

PIN NO.	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	DA	TSA	TSB	Q17G	11	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NP	NP	NX	F1

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

GRID ASSIGNMENT




(1G~15G)


(17G)

ANODE CONNECTION

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

	1G~16G	17G
D0B	1-1B	HDMI
D1B	2-1B	DIG.
D2B	3-1B	ANA.
D3B	4-1B	PCM
D4B	5-1B	DSD
D5B	1-2B	DD
D6B	2-2B	dts
D7B	3-2B	AUDYSSEY
D8B	4-2B	TUNED
D9B	5-2B	STEREO
D10B	1-3B	RDS
D11B	2-3B	M
D12B	3-3B	1
D13B	4-3B	2
D14B	5-3B	MULTI ZONE
D15B	1-4B	INDEXING
D16B	2-4B	MUTE
D17B	3-4B	IN
D18B	4-4B	OUT
D19B	5-4B	LFE
D20B	1-5B	SW2
D21B	2-5B	EXT
D22B	3-5B	H
D23B	4-5B	SW
D24B	5-5B	W
D25B	1-6B	FL
D26B	2-6B	C
D27B	3-6B	FR
D28B	4-6B	SL
D29B	5-6B	A
D30B	1-7B	B
D31B	2-7B	SR
D32B	3-7B	SBL
D33B	4-7B	SB
D34B	5-7B	SBR

FRONT PCB ASS'Y

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

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

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

E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D6021	90M-HD302360R	DIODE,ZENER,1/2W,6.8V		CVDZJ6.8BT	1		
	D6023	00D9630328409	DIODE,RECTIFIER,AXIAL		CVD1N4007ST	1		
	D6026	943202007690S	DIODE,ZENER,1/2W,18V		CVDZJ18BT	1		
	D6027	00D9430087209	DIODE,ZENER,1/2W,24V		CVDZJ24BT	1		
	D6041	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T	1		
	D6323	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T	1		
	D6691	90M-RI000230R	RES,CHIP(3216/5%/10ohm)		CRJ14CJ100T	1		
	D6694	90M-RI000230R	RES,CHIP(3216/5%/10ohm)		CRJ14CJ100T	1		
	D6701	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	D6712	943202500730S	DIODE,ZENER(5.1V/0.5W,SOD-123)		CVDMM1Z5V1H	1		
	D6729,6730	943202500730S	DIODE,ZENER(5.1V/0.5W,SOD-123)		CVDMM1Z5V1H	2		
	D6751	90M-RI000230R	RES,CHIP(3216/5%/10ohm)		CRJ14CJ100T	1		
	IC601	943232100380S	I.C,DUALOPAMP(SOP-8P)		CVINJM8080G	1		
	IC607	943232100380S	I.C,DUALOPAMP(SOP-8P)		CVINJM8080G	1		
	Q6026	943219006820S	T.R		CVTKTC1027YT	1		
	Q6027	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q6042	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q6081	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q6112	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	1		
	Q6311,6312	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	2		
	Q6313,6314	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q6703	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	RESISTOR GROUP							
	R6001,6002	nsp	RES,CHIP(1608/5%/200ohm)		CRJ10DJ201T	2		
	R6003,6004	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R6005	nsp	RES,CHIP(1608/5%/1ohm)		CRJ10DJ1R0T	1		
	R6006	nsp	RES,CHIP(1608/5%/2.2ohm)		CRJ10DJ2R2T	1		
	R6008	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R6009	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R6016	nsp	RES,CHIP(1608/5%/10ohm)		CRJ10DJ100T	1		
	R6025,6026	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	2		
	R6031	nsp	RES,CHIP(1608/5%/27Kohm)		CRJ10DJ273T	1		
	R6032	nsp	RES,CHIP(1608/5%/220Kohm)		CRJ10DJ224T	1		
	R6033,6034	90M-RI000230R	RES,CHIP(3216/5%/10ohm)		CRJ14CJ100T	2		
	R6041	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R6042	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R6043	nsp	RES,CHIP(1608/5%/47Kohm)		CRJ10DJ473T	1		
	R6044	nsp	RES,CHIP(1608/5%/390Kohm)		CRJ10DJ394T	1		
	R6071-6073	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	3		
	R6082	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R6083	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R6101,6102	nsp	RES,CHIP(1608/5%/390ohm)		CRJ10DJ391T	2		
	R6103	nsp	RES,CHIP(1608/5%/47Kohm)		CRJ10DJ473T	1		
	R6134	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R6135	nsp	RES,CHIP(1608/5%/47Kohm)		CRJ10DJ473T	1		
	R6151	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R6152	nsp	RES,CHIP(1608/5%/150ohm)		CRJ10DJ151T	1		
	R6153	nsp	RES,CHIP(1608/5%/180ohm)		CRJ10DJ181T	1		
	R6154	nsp	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T	1		
	R6155	nsp	RES,CHIP(1608/5%/330ohm)		CRJ10DJ331T	1		
	R6161	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R6162	nsp	RES,CHIP(1608/5%/150ohm)		CRJ10DJ151T	1		
	R6163	nsp	RES,CHIP(1608/5%/180ohm)		CRJ10DJ181T	1		
	R6164	nsp	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T	1		
	R6165	nsp	RES,CHIP(1608/5%/330ohm)		CRJ10DJ331T	1		
	R6166	nsp	RES,CHIP(1608/5%/560ohm)		CRJ10DJ561T	1		
	R6171	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R6172	nsp	RES,CHIP(1608/5%/150ohm)		CRJ10DJ151T	1		
	R6173	nsp	RES,CHIP(1608/5%/180ohm)		CRJ10DJ181T	1		
	R6174	nsp	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T	1		
	R6175	nsp	RES,CHIP(1608/5%/330ohm)		CRJ10DJ331T	1		
	R6301	nsp	RES,CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
	R6302	nsp	RES,CHIP(1608/5%/1.2Kohm)	E3	CRJ10DJ122T	1		
	R6302	nsp	RES,CHIP(1608/5%/560ohm)	E2/JP	CRJ10DJ561T	1		
	R6303	nsp	RES,CHIP(1608/5%/1.2Kohm)	E3	CRJ10DJ122T	1		
	R6303	nsp	RES,CHIP(1608/5%/560ohm)	E2/JP	CRJ10DJ561T	1		
	R6351,6352	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R6353,6354	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	2		
	R6421,6422	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R6423,6424	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	2		
	R6503	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R6601,6602	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	2		
	R6603-6605	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	3		
	R6607	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R6613,6614	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R6632	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R6704	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R6711	nsp	RES,CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
	R6718	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R6719	nsp	RES,CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R6720	nsp	RES,CHIP(1608/5%/18Kohm)		CRJ10DJ183T	1		
	R6721	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R6723	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R6726	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R6734	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	CAPACIITORS GROUP							
	C6021	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C6025	nsp	CAP,ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C6027	nsp	CAP,ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C6034	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6071-6073	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG		CCUS1H101JAS	3		
	C6081	nsp	CAP,CHIP(2012,50V/0.1uF,X7R)_SAMSUNG		CCUC1H104KCS	1		
	C6082	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C6083	nsp	CAP,CHIP(1608,50V/0.047uF,X7R)_SAMSUNG		CCUS1H473KCS	1		
	C6084	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	1		
	C6113	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6114	nsp	CAP,ELECT(16V/47uF)		CCEA1CH470T	1		
	C6118	nsp	RES,CHIP(1608/5%/10ohm)		CRJ10DJ100T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C6351,6352	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	2		
	C6417	nsp	CAP,CHIP(1608,50V/0.047uF,X7R)_SAMSUNG		CCUS1H473KCS	1		
	C6423,6424	nsp	CAP,CHIP(1608,50V/0.047uF,X7R)_SAMSUNG		CCUS1H473KCS	2		
	C6501,6502	nsp	CAP,CHIP(1608,50V/1000pF,X7R)_SAMSUNG		CCUS1H102KCS	2		
	C6503	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6512,6513	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C6514	nsp	CAP,ELECT(50V/1uF)-S		CCEA1HKS1R0T	1		
	C6523	nsp	CAP,ELECT(50V/10uF)-S		CCEA1HKS100T	1		
	C6601	nsp	CAP,ELECT(50V/10uF)-S		CCEA1HKS100T	1		
	C6603,6604	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	2		
	C6623,6624	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C6691	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6693	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6702	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6712	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C6719	nsp	CAP,ELECT(16V/100uF)		CCEA1CH101T	1		
	C6720	nsp	CAP,CHIP(1608,50V/82pF,C0G)_SAMSUNG		CCUS1H820JAS	1		
	C6726	nsp	CAP,CHIP(1608,50V/0.047uF,X7R)_SAMSUNG		CCUS1H473KCS	1		
	C6731,6732	nsp	CAP,ELECT(50V/1uF)		CCEA1HH1R0T	2		
	C6733	nsp	CAP,ELECT(50V/1uF)-S		CCEA1HKS1R0T	1		
	C6735	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG		CCUS1H101JAS	1		
	C6753	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6902	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6907	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6910-6913	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	4		
	OTHER PARTS GROUP							
	BK602	nsp	BRACKET,PCB		CMD1A569-V1	1		
	BK603	nsp	BRACKET,PCB		CMD1A569-V1	1		
	BK604	nsp	BRACKET,FIP		CMD1A572-V1	1		
	BK605	nsp	BRACKET,FIP		CMD1A572-V1	1		
	C6024	nsp	CAP,ELECT(63V/470uF)		CCEA1JH471E	1		
	CN602	nsp	WAFER/ANGLE/2.5mm/07P		CJP07GB03ZY	1		
	CN605A	nsp	WAFER,BDTOBD2.0MM(SOKET)		CJP05GB280ZK	1		
	CN605B	nsp	WAFER,BDTOBD2.0MM(PLUG)		CJP05GA279ZK	1		
	CN69A	nsp	WAFER,FFC(40P-1mm,ANGLE)		CJP40GB284ZN	1		
!	F6001	943652500550D	FUSE(372Series/200mA/TR5)		CBA2D0200A3EYT	1	*	
	FL601	17201001300AS	VFD,FUTABA,17-BT-040GINK,CIG-TYPE		CFL17BT040GINK	1		
	JK605	90M-YT004500R	JACK,PHONES(6.35mm,SILVER)		CJJ2E026Z	1		
	JK606	943643102980S	JACK,3P(B/B/B)withS/W,SILVER,VERTICAL		CJJ4S051Z	1		
	JK607	943643102400S	JACK,MIC(3.5mm,MONO,STRAIGHT)		CJJ1D006Z	1		
	JW603	nsp	WIREASS'Y(1P,80MM,BLK,#22)		CWE5202080A	1		
	JW604	nsp	WIREASS'Y(1P,80MM,BLK,#22)		CWE5202080A	1		
	JW605	nsp	WIREASS'Y(1P,80MM,BLK,#22)		CWE5202080A	1		
	L6501	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L6601	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	LD601	9632631009605	LED,WHITE/RED	E3	CVDPVBWR5A2M	1	*	
	LD601	9431760100905	L.E.D,(GREEN/RED5PI)	E2/JP	CVDBLBJEGJ204L	1		
	LD602	9632620104605	L.E.D(Infraredlightemittingdiode)		CVDSIR341ST3FT0	1		
	RC601	943262100140S	SENSOR,REMOTE(37.9KHz)		CRVHM238RT12	1		
	SW601-606	00D9430004402	SW,TACT		CST1A012ZT	6		
	SW611-617	00D9430004402	SW,TACT		CST1A012ZT	7		
	SW621-626	00D9430004402	SW,TACT		CST1A012ZT	6		
	SW631	00D9430004402	SW,TACT		CST1A012ZT	1		
	VR601	943671010330S	ENCODER(16MM,24PULSES),W/CLICK		CSR2A055Z	1		
	VR604	943671101000D	ENCODER(16MM,12PULSES)		CSR2A060Z	1		
	★	nsp	WASHER,SHEET		CNW1A064	1	*	

VIDEO PCB ASS'Y

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

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

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

E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D5161	00D2760718902	DIODE,SCHOTTKY,30V		CVDRB521S-30	1		
	D5211	943202500740D	DIODE,ZENER(16V/0.5W,SOD-123)		CVDMM1Z16H	1		
	D5221	943202500740D	DIODE,ZENER(16V/0.5W,SOD-123)		CVDMM1Z16H	1		
	D5251	00D2760718902	DIODE,SCHOTTKY,30V		CVDRB521S-30	1		
	D5252	9432090010805	DIODE,CHIP,SWITCHING		CVD1SS355T	1		
	D5254	00D2760718902	DIODE,SCHOTTKY,30V		CVDRB521S-30	1		
	IC511	235810046603S	I.C,MULTIINPUTVIDEO		CVIAVDM2000	1		
	IC513	9432390104005	I.C,REGULATOR(3.3V/TO-252)		CVINJM2845DL133	1		
	IC521	9632390088005	I.C,RS232(3.3V)		CVIILX3232DT	1		
	Q5211	943212500220D	T.R,2SA2166,PNP,TO-236,ISAHAYA		CVT2SA2166	1		
	Q5212	943216500002S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q5221	943212500220D	T.R,2SA2166,PNP,TO-236,ISAHAYA		CVT2SA2166	1		
	Q5222	943216500002S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q5251	943215500002S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	1		
	Q5252	943214500002S	T.R,2SC3052		CVT2SC3052	1		
	RESISTOR GROUP							
	R5101-5103	nsp	RES,CHIP(1608/1%/75ohm)		CRJ10DF75R0T	3		
	R5104	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R5107	nsp	RES,CHIP(1608/1%/75ohm)		CRJ10DF75R0T	1		
	R5109	nsp	RES,CHIP(1608/1%/75ohm)		CRJ10DF75R0T	1		
	R5110	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R5111	nsp	RES,CHIP(1608/1%/75ohm)		CRJ10DF75R0T	1		
	R5112	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R5121-5126	nsp	RES,CHIP(1608/1%/150ohm)		CRJ10DF1500T	6		
	R5131-5136	nsp	RES,CHIP(1608/1%/150ohm)		CRJ10DF1500T	6		
	R5157-5159	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	3		
	R5171,5172	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R5173,5174	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	2		
	R5175	nsp	RES,CHIP(1608/1%/75ohm)		CRJ10DF75R0T	1		
	R5176	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R5177	nsp	RES,CHIP(1608/1%/75ohm)		CRJ10DF75R0T	1		
	R5178	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R5179	nsp	RES,CHIP(1608/1%/75ohm)		CRJ10DF75R0T	1		
	R5180,5181	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	2		
	R5183-5186	nsp	RES,CHIP(1608/5%/10ohm)		CRJ10DJ100T	4		
	R5187-5189	nsp	RES,CHIP(1608/1%/75ohm)		CRJ10DF75R0T	3		
	R5190	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R5193	nsp	RES,CHIP(1608/1%/75ohm)		CRJ10DF75R0T	1		
	R5194	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R5211	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R5212	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R5221	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R5222	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R5223,5224	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R5231-5234	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	4		
	R5251	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R5252	nsp	RES,CHIP(1608/5%/3.3Kohm)		CRJ10DJ332T	1		
	R5253	nsp	RES,CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
	R5254	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	CAPACIITORS GROUP							
	C5107-5109	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	3		
	C5121-5123	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	3		
	C5131-5133	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	3		
	C5161	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C5162	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C5163	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C5164	nsp	CAP,ELECT(16V/47uF)		CCEA1CH470T	1		
	C5165,5166	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C5171	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C5174-5176	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	3		
	C5178-5181	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	4		
	C5182,5183	nsp	CAP,ELECT(16V/47uF)		CCEA1CH470T	2		
	C5184-5192	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	9		
	C5193	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C5194	nsp	WIRE,COPPER(D0.6)		C3A206	0.02		
	C5212,5213	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C5214	nsp	CAP,CHIP(1608,50V/1000pF,X7R)_SAMSUNG		CCUS1H102KCS	1		
	C5222,5223	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C5224	nsp	CAP,CHIP(1608,50V/1000pF,X7R)_SAMSUNG		CCUS1H102KCS	1		
	C5231	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C5233-5235	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	3		
	C5236	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C5237	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C5238,5239	nsp	CAP,CHIP(1608,50V/33pF,C0G)_SAMSUNG		CCUS1H330JAS	2		
	C5251	nsp	CAP,CHIP(1608,50V/1000pF,X7R)_SAMSUNG		CCUS1H102KCS	1		
	C5252	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C5253	nsp	CAP,CHIP(1608,50V/1000pF,X7R)_SAMSUNG		CCUS1H102KCS	1		
	OTHER PARTS GROUP							
	BN21B	nsp	PINSOCKET(19P,1.25mm,ANGLE,B-TO-B)		CJP19HJ282Z	1		
	BN27B	nsp	PINSOCKET(19P,1.25mm,ANGLE,B-TO-B)		CJP19HJ282Z	1		
	BN28B	nsp	PINSOCKET(13P,1.25mm,ANGLE,B-TO-B)		CJP13HJ282Z	1		
	JK511	943643102990S	JACK,RCA5P(Y/Y/Y/Y/Y)SILVER		CJJ4T001Z	1	*	
	JK512	943643101910S	JACK,6P(G/G,B/B,R/R),SILVER		CJJ4R054Z	1		
	JK513	943643101100S	JACK,3P(G/B/R),SILVER		CJJ4S050Z	1		
	JK521	943646100420S	JACK,9PD-SUBFEMALE(RS-232C)		CJJ9W001Z	1		
	JK522,523	643010086019S	JACK,STEREO(REDMOLD)		CJJ2D019Z	2		
	JK525,526	90M-YT004860R	JACK,STEREO(BLKMOLD)		CJJ2D008Z	2		
	JW501	nsp	WIREASS'Y(1P,80MM,BLK,#22)		CWE5202080A	1		

7CHAMP PCB ASS'Y

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

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

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

E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D7108,7109	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	2		
	D7118	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D7139	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D7208,7209	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	2		
	D7218	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D7239	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D7308,7309	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	2		
	D7318	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D7339	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D7408,7409	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	2		
	D7418	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D7439	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D7508,7509	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	2		
	D7518	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D7539	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D7608,7609	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	2		
	D7618	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D7639	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D7708,7709	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	2		
	D7718	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D7739	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	Q7001	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7104	21785000550AS	T.R,PNP,DUAL,HN4A06J,SOT-25,TOSHIBA		CVTHN4A06J	1		
	Q7114	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7118	00D2710314903	T.R		HVTKTA1024YT	1		
	Q7120,7121	00D2730471907	T.R		HVTKTC3206YAT	2		
	Q7125	963219003340S	T.R,BIAS		CVTKTC3964	1		
	Q7131	00D9630235301	T.R,POWER(Pc130W)		HVT2SD2560	1		
	Q7132	00D9630235204	T.R,POWER(Pc130W)		HVT2SB1647	1		
	Q7138	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7139	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551	1		
	Q7204	21785000550AS	T.R,PNP,DUAL,HN4A06J,SOT-25,TOSHIBA		CVTHN4A06J	1		
	Q7214	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7218	00D2710314903	T.R		HVTKTA1024YT	1		
	Q7220,7221	00D2730471907	T.R		HVTKTC3206YAT	2		
	Q7225	963219003340S	T.R,BIAS		CVTKTC3964	1		
	Q7231	00D9630235301	T.R,POWER(Pc130W)		HVT2SD2560	1		
	Q7232	00D9630235204	T.R,POWER(Pc130W)		HVT2SB1647	1		
	Q7238	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7239	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551	1		
	Q7304	21785000550AS	T.R,PNP,DUAL,HN4A06J,SOT-25,TOSHIBA		CVTHN4A06J	1		
	Q7314	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7318	00D2710314903	T.R		HVTKTA1024YT	1		
	Q7320,7321	00D2730471907	T.R		HVTKTC3206YAT	2		
	Q7325	963219003340S	T.R,BIAS		CVTKTC3964	1		
	Q7331	00D9630235301	T.R,POWER(Pc130W)		HVT2SD2560	1		
	Q7332	00D9630235204	T.R,POWER(Pc130W)		HVT2SB1647	1		
	Q7338	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7339	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551	1		
	Q7404	21785000550AS	T.R,PNP,DUAL,HN4A06J,SOT-25,TOSHIBA		CVTHN4A06J	1		
	Q7414	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7418	00D2710314903	T.R		HVTKTA1024YT	1		
	Q7420,7421	00D2730471907	T.R		HVTKTC3206YAT	2		
	Q7425	963219003340S	T.R,BIAS		CVTKTC3964	1		
	Q7431	00D9630235301	T.R,POWER(Pc130W)		HVT2SD2560	1		
	Q7432	00D9630235204	T.R,POWER(Pc130W)		HVT2SB1647	1		
	Q7438	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7439	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551	1		
	Q7504	21785000550AS	T.R,PNP,DUAL,HN4A06J,SOT-25,TOSHIBA		CVTHN4A06J	1		
	Q7514	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7518	00D2710314903	T.R		HVTKTA1024YT	1		
	Q7520,7521	00D2730471907	T.R		HVTKTC3206YAT	2		
	Q7525	963219003340S	T.R,BIAS		CVTKTC3964	1		
	Q7531	00D9630235301	T.R,POWER(Pc130W)		HVT2SD2560	1		
	Q7532	00D9630235204	T.R,POWER(Pc130W)		HVT2SB1647	1		
	Q7538	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7539	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551	1		
	Q7604	21785000550AS	T.R,PNP,DUAL,HN4A06J,SOT-25,TOSHIBA		CVTHN4A06J	1		
	Q7614	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7618	00D2710314903	T.R		HVTKTA1024YT	1		
	Q7620,7621	00D2730471907	T.R		HVTKTC3206YAT	2		
	Q7625	963219003340S	T.R,BIAS		CVTKTC3964	1		
	Q7631	00D9630235301	T.R,POWER(Pc130W)		HVT2SD2560	1		
	Q7632	00D9630235204	T.R,POWER(Pc130W)		HVT2SB1647	1		
	Q7638	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7639	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551	1		
	Q7704	21785000550AS	T.R,PNP,DUAL,HN4A06J,SOT-25,TOSHIBA		CVTHN4A06J	1		
	Q7714	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7718	00D2710314903	T.R		HVTKTA1024YT	1		
	Q7720,7721	00D2730471907	T.R		HVTKTC3206YAT	2		
	Q7725	963219003340S	T.R,BIAS		CVTKTC3964	1		
	Q7731	00D9630235301	T.R,POWER(Pc130W)		HVT2SD2560	1		
	Q7732	00D9630235204	T.R,POWER(Pc130W)		HVT2SB1647	1		
	Q7738	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q7739	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551	1		
	ZD714	943202010080S	DIODE,ZENER,1/2W,5.1V		CVDZJ5.1BT	1		
	ZD724	943202010080S	DIODE,ZENER,1/2W,5.1V		CVDZJ5.1BT	1		
	ZD734	943202010080S	DIODE,ZENER,1/2W,5.1V		CVDZJ5.1BT	1		
	ZD744	943202010080S	DIODE,ZENER,1/2W,5.1V		CVDZJ5.1BT	1		
	ZD754	943202010080S	DIODE,ZENER,1/2W,5.1V		CVDZJ5.1BT	1		
	ZD764	943202010080S	DIODE,ZENER,1/2W,5.1V		CVDZJ5.1BT	1		
	ZD774	943202010080S	DIODE,ZENER,1/2W,5.1V		CVDZJ5.1BT	1		
	RESISTOR GROUP							
	R7001	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7002	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
!	R7012	943252101000S	PTCTHEMISTORS,CHIP(65'C)		CRTPRF18BG471QB	1	*	
!	R7014	2523100065O6S	PTCTHEMISTORS,CHIP(115'C)		CRTPRF18BB471QB	1		
	R7016	nsp	RES,CARBON(1/5W,3.3Kohm,J)		CRD20TJ332T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R7017	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R7018	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7101	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R7102	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R7103	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7104	nsp	WIRE,COPPER(D0.6)		C3A206	0.02		
	R7105	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	1		
	R7106	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7107	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7108	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	1		
	R7110	nsp	RES,CARBON(1/5W,110ohm,J)		CRD20TJ111T	1		
	R7111	nsp	RES,M-OXIDEFILM(1W/3.3Kohm)		CRG1SANJ332RT	1		
	R7112	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7114	nsp	RES,METAL(1/2W,27kOHM)		CRG12SANJ273T	1		
	R7116,7117	nsp	RES,CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	2		
	R7118,7119	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	2		
	R7120	nsp	RES,M-OXIDEFILM(2W/12Kohm)		CRG2SANJ123RT	1		
	R7121	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	1		
	R7124	nsp	RES,CHIP(1608/5%/2.7Kohm)		CRJ10DJ272T	1		
	R7125	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7126	nsp	RES,CHIP(1608/5%/560ohm)		CRJ10DJ561T	1		
	R7129,7130	9431245002405	RES,M-OXIDEFILM(1W/22ohm)		CRG1SANJ220RT	2		
	R7131-7134	9431245000505	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R7135,7136	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R7137	nsp	RES,CARBON(1/5W,680Kohm,J)		CRD20TJ684T	1		
!	R7138	2523100065065	PTCTHEMISTORS,CHIP(115℃)		CRTPRF18BB471QB	1		
	R7139	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7140	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7141	nsp	RES,CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T	1		
	R7143	nsp	RES,CARBON(1/5W,47Kohm,J)		CRD20TJ473T	1		
	R7144	nsp	RES,CHIP(3216/5%/22Kohm)		CRJ14CJ223T	1		
	R7145	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R7201	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R7202	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R7203	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7204	nsp	WIRE,COPPER(D0.6)		C3A206	0.02		
	R7205	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	1		
	R7206	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7207	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7208	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	1		
	R7210	nsp	RES,CARBON(1/5W,110ohm,J)		CRD20TJ111T	1		
	R7211	nsp	RES,M-OXIDEFILM(1W/3.3Kohm)		CRG1SANJ332RT	1		
	R7212	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7214	nsp	RES,METAL(1/2W,27kOHM)		CRG12SANJ273T	1		
	R7216,7217	nsp	RES,CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	2		
	R7218,7219	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	2		
	R7220	nsp	RES,M-OXIDEFILM(2W/12Kohm)		CRG2SANJ123RT	1		
	R7221	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	1		
	R7224	nsp	RES,CHIP(1608/5%/2.7Kohm)		CRJ10DJ272T	1		
	R7225	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7226	nsp	RES,CHIP(1608/5%/560ohm)		CRJ10DJ561T	1		
	R7229,7230	9431245002405	RES,M-OXIDEFILM(1W/22ohm)		CRG1SANJ220RT	2		
	R7231-7234	9431245000505	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R7235,7236	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R7237	nsp	RES,CARBON(1/5W,680Kohm,J)		CRD20TJ684T	1		
!	R7238	2523100065065	PTCTHEMISTORS,CHIP(115℃)		CRTPRF18BB471QB	1		
	R7239	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7240	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7241	nsp	RES,CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T	1		
	R7243	nsp	RES,CHIP(3216/5%/47Kohm)		CRJ14CJ473T	1		
	R7244	nsp	RES,CHIP(3216/5%/22Kohm)		CRJ14CJ223T	1		
	R7245	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R7301	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R7302	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R7303	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7304	nsp	WIRE,COPPER(D0.6)		C3A206	0.02		
	R7305	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	1		
	R7306	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7307	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7308	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	1		
	R7310	nsp	RES,CARBON(1/5W,110ohm,J)		CRD20TJ111T	1		
	R7311	nsp	RES,M-OXIDEFILM(1W/3.3Kohm)		CRG1SANJ332RT	1		
	R7312	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7314	nsp	RES,METAL(1/2W,27kOHM)		CRG12SANJ273T	1		
	R7316,7317	nsp	RES,CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	2		
	R7318,7319	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	2		
	R7320	nsp	RES,M-OXIDEFILM(2W/12Kohm)		CRG2SANJ123RT	1		
	R7321	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	1		
	R7324	nsp	RES,CHIP(1608/5%/2.7Kohm)		CRJ10DJ272T	1		
	R7325	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7326	nsp	RES,CHIP(1608/5%/560ohm)		CRJ10DJ561T	1		
	R7329,7330	9431245002405	RES,M-OXIDEFILM(1W/22ohm)		CRG1SANJ220RT	2		
	R7331-7334	9431245000505	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R7335,7336	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R7337	nsp	RES,CARBON(1/5W,680Kohm,J)		CRD20TJ684T	1		
!	R7338	2523100065065	PTCTHEMISTORS,CHIP(115℃)		CRTPRF18BB471QB	1		
	R7339	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7340	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7341	nsp	RES,CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T	1		
	R7343	nsp	RES,CHIP(3216/5%/47Kohm)		CRJ14CJ473T	1		
	R7344	nsp	RES,CHIP(3216/5%/22Kohm)		CRJ14CJ223T	1		
	R7345	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R7401	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R7402	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R7403	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7404	nsp	WIRE,COPPER(D0.6)		C3A206	0.02		
	R7405	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	1		
	R7406	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7407	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7408	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	1		
	R7410	nsp	RES,CARBON(1/5W,110ohm,J)		CRD20TJ111T	1		
	R7411	nsp	RES,M-OXIDEFILM(1W/3.3Kohm)		CRG1SANJ332RT	1		
	R7412	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7414	nsp	RES,METAL(1/2W,27kOHM)		CRG12SANJ273T	1		
	R7416,7417	nsp	RES,CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	2		
	R7418,7419	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R7420	nsp	RES,M-OXIDEFILM(2W/12Kohm)		CRG2SANJ123RT	1		
	R7421	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	1		
	R7424	nsp	RES,CHIP(1608/5%/2.7Kohm)		CRJ10DJ272T	1		
	R7425	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7426	nsp	RES,CHIP(1608/5%/560ohm)		CRJ10DJ561T	1		
	R7429,7430	9431245002405	RES,M-OXIDEFILM(1W/22ohm)		CRG1SANJ220RT	2		
	R7431-7434	9431245000505	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R7435,7436	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R7437	nsp	RES,CARBON(1/5W,680Kohm,J)		CRD20TJ684T	1		
!	R7438	2523100065065	PTCTHEMISTORS,CHIP(115'C)		CRTPRF18BB471QB	1		
	R7439	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7440	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7441	nsp	RES,CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T	1		
	R7443	nsp	RES,CARBON(1/5W,47Kohm,J)		CRD20TJ473T	1		
	R7444	nsp	RES,CHIP(3216/5%/22Kohm)		CRJ14CJ223T	1		
	R7445	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R7501	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R7502	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R7503	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7504	nsp	WIRE,COPPER(D0.6)		C3A206	0.02		
	R7505	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	1		
	R7506	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7507	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7508	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	1		
	R7510	nsp	RES,CARBON(1/5W,110ohm,J)		CRD20TJ111T	1		
	R7511	nsp	RES,M-OXIDEFILM(1W/3.3Kohm)		CRG1SANJ332RT	1		
	R7512	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7514	nsp	RES,METAL(1/2W,27kOHM)		CRG12SANJ273T	1		
	R7516,7517	nsp	RES,CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	2		
	R7518,7519	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	2		
	R7520	nsp	RES,M-OXIDEFILM(2W/12Kohm)		CRG2SANJ123RT	1		
	R7521	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	1		
	R7524	nsp	RES,CHIP(1608/5%/2.7Kohm)		CRJ10DJ272T	1		
	R7525	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7526	nsp	RES,CHIP(1608/5%/560ohm)		CRJ10DJ561T	1		
	R7529,7530	9431245002405	RES,M-OXIDEFILM(1W/22ohm)		CRG1SANJ220RT	2		
	R7531-7534	9431245000505	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R7535,7536	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R7537	nsp	RES,CARBON(1/5W,680Kohm,J)		CRD20TJ684T	1		
!	R7538	2523100065065	PTCTHEMISTORS,CHIP(115'C)		CRTPRF18BB471QB	1		
	R7539	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7540	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7541	nsp	RES,CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T	1		
	R7543	nsp	RES,CHIP(3216/5%/47Kohm)		CRJ14CJ473T	1		
	R7544	nsp	RES,CHIP(3216/5%/22Kohm)		CRJ14CJ223T	1		
	R7545	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R7601	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R7602	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R7603	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7604	nsp	WIRE,COPPER(D0.6)		C3A206	0.02		
	R7605	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	1		
	R7606	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7607	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7608	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	1		
	R7610	nsp	RES,CARBON(1/5W,110ohm,J)		CRD20TJ111T	1		
	R7611	nsp	RES,M-OXIDEFILM(1W/3.3Kohm)		CRG1SANJ332RT	1		
	R7612	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7614	nsp	RES,METAL(1/2W,27kOHM)		CRG12SANJ273T	1		
	R7616,7617	nsp	RES,CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	2		
	R7618,7619	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	2		
	R7620	nsp	RES,M-OXIDEFILM(2W/12Kohm)		CRG2SANJ123RT	1		
	R7621	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	1		
	R7624	nsp	RES,CHIP(1608/5%/2.7Kohm)		CRJ10DJ272T	1		
	R7625	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7626	nsp	RES,CHIP(1608/5%/560ohm)		CRJ10DJ561T	1		
	R7629,7630	9431245002405	RES,M-OXIDEFILM(1W/22ohm)		CRG1SANJ220RT	2		
	R7631-7634	9431245000505	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R7635	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7636	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R7637	nsp	RES,CARBON(1/5W,680Kohm,J)		CRD20TJ684T	1		
!	R7638	2523100065065	PTCTHEMISTORS,CHIP(115'C)		CRTPRF18BB471QB	1		
	R7639	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7640	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7641	nsp	RES,CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T	1		
	R7643	nsp	RES,CHIP(3216/5%/47Kohm)		CRJ14CJ473T	1		
	R7644	nsp	RES,CHIP(3216/5%/22Kohm)		CRJ14CJ223T	1		
	R7645	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R7701	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R7702	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R7703	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7704	nsp	WIRE,COPPER(D0.6)		C3A206	0.02		
	R7705	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	1		
	R7706	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7707	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7708	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	1		
	R7710	nsp	RES,CARBON(1/5W,110ohm,J)		CRD20TJ111T	1		
	R7711	nsp	RES,M-OXIDEFILM(1W/3.3Kohm)		CRG1SANJ332RT	1		
	R7712	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R7714	nsp	RES,METAL(1/2W,27kOHM)		CRG12SANJ273T	1		
	R7716,7717	nsp	RES,CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	2		
	R7718,7719	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	2		
	R7720	nsp	RES,M-OXIDEFILM(2W/12Kohm)		CRG2SANJ123RT	1		
	R7721	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	1		
	R7724	nsp	RES,CHIP(1608/5%/2.7Kohm)		CRJ10DJ272T	1		
	R7725	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7726	nsp	RES,CHIP(1608/5%/560ohm)		CRJ10DJ561T	1		
	R7729,7730	9431245002405	RES,M-OXIDEFILM(1W/22ohm)		CRG1SANJ220RT	2		
	R7731-7734	9431245000505	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R7735,7736	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R7737	nsp	RES,CARBON(1/5W,680Kohm,J)		CRD20TJ684T	1		
!	R7738	2523100065065	PTCTHEMISTORS,CHIP(115'C)		CRTPRF18BB471QB	1		
	R7739	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R7740	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R7741	nsp	RES,CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T	1		
	R7743	nsp	RES,CHIP(3216/5%/47Kohm)		CRJ14CJ473T	1		
	R7744	nsp	RES,CHIP(3216/5%/22Kohm)		CRJ14CJ223T	1		

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
R7745	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
CAPACIITORS GROUP							
C7001	nsp	CAP,CHIP(1608,50V/0.01uF,X7R) SAMSUNG		CCUS1H103KCS	1		
C7011,7012	nsp	CAP,ELECT(10V/330uF)		CCEA1AH331T	2		
C7013	nsp	CAP,ELECT(10V/47uF)		CCEA1AH470T	1		
C7101	00D2544583971	CAP,ELEC(ELNAROBSERIES,47uF/50V)		CCEA1HROB470T	1		
C7102	nsp	CAP,PE-FILM(100V/470pF/J)		CCME2A471JR11T	1		
C7104	nsp	CAP,PE-FILM(100V/220pF/J)		CCME2A221JR11T	1		
C7106	00MOA47702520	CAP,ELECT(25V/470uF)		CCEA1EH471T	1		
C7107	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
C7112	nsp	CAP,PE-FILM(100V/220pF/J)		CCME2A221JR11T	1		
C7120,7121	nsp	CAP,PE-FILM(100V/470pF/J)		CCME2A471JR11T	2		
C7125	00MOA47702520	CAP,ELECT(25V/470uF)		CCEA1EH471T	1		
C7131,7132	9431345000070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	2		
C7138	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
C7201	00D2544583971	CAP,ELEC(ELNAROBSERIES,47uF/50V)		CCEA1HROB470T	1		
C7202	nsp	CAP,PE-FILM(100V/470pF/J)		CCME2A471JR11T	1		
C7204	nsp	CAP,PE-FILM(100V/220pF/J)		CCME2A221JR11T	1		
C7206	00MOA47702520	CAP,ELECT(25V/470uF)		CCEA1EH471T	1		
C7207	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
C7212	nsp	CAP,PE-FILM(100V/220pF/J)		CCME2A221JR11T	1		
C7220,7221	nsp	CAP,PE-FILM(100V/470pF/J)		CCME2A471JR11T	2		
C7225	00MOA47702520	CAP,ELECT(25V/470uF)		CCEA1EH471T	1		
C7231,7232	9431345000070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	2		
C7238	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
C7301	00D2544583971	CAP,ELEC(ELNAROBSERIES,47uF/50V)		CCEA1HROB470T	1		
C7302	nsp	CAP,PE-FILM(100V/470pF/J)		CCME2A471JR11T	1		
C7304	nsp	CAP,PE-FILM(100V/220pF/J)		CCME2A221JR11T	1		
C7306	00MOA47702520	CAP,ELECT(25V/470uF)		CCEA1EH471T	1		
C7307	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
C7312	nsp	CAP,PE-FILM(100V/220pF/J)		CCME2A221JR11T	1		
C7320,7321	nsp	CAP,PE-FILM(100V/470pF/J)		CCME2A471JR11T	2		
C7325	00MOA47702520	CAP,ELECT(25V/470uF)		CCEA1EH471T	1		
C7331,7332	9431345000070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	2		
C7338	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
C7401	00D2544583971	CAP,ELEC(ELNAROBSERIES,47uF/50V)		CCEA1HROB470T	1		
C7402	nsp	CAP,PE-FILM(100V/470pF/J)		CCME2A471JR11T	1		
C7404	nsp	CAP,PE-FILM(100V/220pF/J)		CCME2A221JR11T	1		
C7406	00MOA47702520	CAP,ELECT(25V/470uF)		CCEA1EH471T	1		
C7407	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
C7412	nsp	CAP,PE-FILM(100V/220pF/J)		CCME2A221JR11T	1		
C7420,7421	nsp	CAP,PE-FILM(100V/470pF/J)		CCME2A471JR11T	2		
C7425	00MOA47702520	CAP,ELECT(25V/470uF)		CCEA1EH471T	1		
C7431,7432	9431345000070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	2		
C7438	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
C7501	00D2544583971	CAP,ELEC(ELNAROBSERIES,47uF/50V)		CCEA1HROB470T	1		
C7502	nsp	CAP,PE-FILM(100V/470pF/J)		CCME2A471JR11T	1		
C7504	nsp	CAP,PE-FILM(100V/220pF/J)		CCME2A221JR11T	1		
C7506	00MOA47702520	CAP,ELECT(25V/470uF)		CCEA1EH471T	1		
C7507	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
C7512	nsp	CAP,PE-FILM(100V/220pF/J)		CCME2A221JR11T	1		
C7520,7521	nsp	CAP,PE-FILM(100V/470pF/J)		CCME2A471JR11T	2		
C7525	00MOA47702520	CAP,ELECT(25V/470uF)		CCEA1EH471T	1		
C7531,7532	9431345000070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	2		
C7538	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
C7601	00D2544583971	CAP,ELEC(ELNAROBSERIES,47uF/50V)		CCEA1HROB470T	1		
C7602	nsp	CAP,PE-FILM(100V/470pF/J)		CCME2A471JR11T	1		
C7604	nsp	CAP,PE-FILM(100V/220pF/J)		CCME2A221JR11T	1		
C7606	00MOA47702520	CAP,ELECT(25V/470uF)		CCEA1EH471T	1		
C7607	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
C7612	nsp	CAP,PE-FILM(100V/220pF/J)		CCME2A221JR11T	1		
C7620,7621	nsp	CAP,PE-FILM(100V/470pF/J)		CCME2A471JR11T	2		
C7625	00MOA47702520	CAP,ELECT(25V/470uF)		CCEA1EH471T	1		
C7631,7632	9431345000070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	2		
C7638	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
C7701	00D2544583971	CAP,ELEC(ELNAROBSERIES,47uF/50V)		CCEA1HROB470T	1		
C7702	nsp	CAP,PE-FILM(100V/470pF/J)		CCME2A471JR11T	1		
C7704	nsp	CAP,PE-FILM(100V/220pF/J)		CCME2A221JR11T	1		
C7706	00MOA47702520	CAP,ELECT(25V/470uF)		CCEA1EH471T	1		
C7707	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
C7712	nsp	CAP,PE-FILM(100V/220pF/J)		CCME2A221JR11T	1		
C7720,7721	nsp	CAP,PE-FILM(100V/470pF/J)		CCME2A471JR11T	2		
C7725	00MOA47702520	CAP,ELECT(25V/470uF)		CCEA1EH471T	1		
C7731,7732	9431345000070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	2		
C7738	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
OTHER PARTS GROUP							
BK701	nsp	BRACKET,PCB		CMD1A569-V1	1		
BN710 EXPLODED C13	nsp	WIREASS'Y(7P,2.0MM,180MM,UL1007#26)		CWB1B007180LC	1		
CN461	nsp	LOCK-WAFER/STRAIGHT/2MMPITCH/13PIN		CJP13GI288ZY	1		
CN701	nsp	LOCK-WAFER/STRAIGHT/2.5MMPITCH/4PIN		CJP04GI289ZY	1		
CN702	nsp	LOCK-WAFER/STRAIGHT/2.5MMPITCH/5PIN		CJP05GI289ZY	1		
CN703	nsp	LOCK-WAFER/STRAIGHT/2.5MMPITCH/7PIN		CJP07GI289ZY	1		
CN704	nsp	LOCK-WAFER/STRAIGHT/2.5MMPITCH/6PIN		CJP06GI289ZY	1		
CN715	nsp	WAFER(3PIN,AN,2MM,JWT)		CJP03GB48ZW	1		
CN725	nsp	WAFER(3PIN,AN,2MM,JWT)		CJP03GB48ZW	1		
CN735	nsp	WAFER(3PIN,AN,2MM,JWT)		CJP03GB48ZW	1		
CN745	nsp	WAFER(3PIN,AN,2MM,JWT)		CJP03GB48ZW	1		
CN755	nsp	WAFER(3PIN,AN,2MM,JWT)		CJP03GB48ZW	1		
CN765	nsp	WAFER(3PIN,AN,2MM,JWT)		CJP03GB48ZW	1		
CN775	nsp	WAFER(3PIN,AN,2MM,JWT)		CJP03GB48ZW	1		
GND71	nsp	PLATE,EARTH(TRONICELECTRONICS)		CJT1A026	1		
VR714	9631610124005	RES,SEMIFIXED(1K/B-CURVE)ANGLE		CVN1RE102B01T	1		
VR724	9631610124005	RES,SEMIFIXED(1K/B-CURVE)ANGLE		CVN1RE102B01T	1		
VR734	9631610124005	RES,SEMIFIXED(1K/B-CURVE)ANGLE		CVN1RE102B01T	1		
VR744	9631610124005	RES,SEMIFIXED(1K/B-CURVE)ANGLE		CVN1RE102B01T	1		
VR754	9631610124005	RES,SEMIFIXED(1K/B-CURVE)ANGLE		CVN1RE102B01T	1		
VR764	9631610124005	RES,SEMIFIXED(1K/B-CURVE)ANGLE		CVN1RE102B01T	1		
VR774	9631610124005	RES,SEMIFIXED(1K/B-CURVE)ANGLE		CVN1RE102B01T	1		
★	nsp	HEATSINKASS'Y		CMY2A376ZA	1		

SPK PCB ASS'Y

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

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

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

E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D9221-9228	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T	8		
	D9230,9231	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T	2		
	D9233,9234	nsp	WIRE,COPPER(D0.6)		C3A206	2		
	D9241-9247	2013100015O3S	DIODE,ULTRA-HIGHSPEED		CVDKDS160RTKP	7		
	D9250	943202500720S	DIODE,ZENER(3.6V/0.5W,SOD-123)		CVDMM1Z3V6H	1		
	D9303,9304	nsp	WIRE,COPPER(D0.6)		C3A206	2		
	D9315-9318	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T	4		
	D9331	943203003150S	DIODE,RECTIFIER,RADIAL		CVD1N4007SRT	1		
	D9333	943203003150S	DIODE,RECTIFIER,RADIAL		CVD1N4007SRT	1		
	D9336	943203003150S	DIODE,RECTIFIER,RADIAL		CVD1N4007SRT	1		
	D9338-9340	943203003150S	DIODE,RECTIFIER,RADIAL		CVD1N4007SRT	3		
	D9343	943203003150S	DIODE,RECTIFIER,RADIAL		CVD1N4007SRT	1		
	D9345	943203003150S	DIODE,RECTIFIER,RADIAL		CVD1N4007SRT	1		
	D9347	943203003150S	DIODE,RECTIFIER,RADIAL		CVD1N4007SRT	1		
	D9349	943203003150S	DIODE,RECTIFIER,RADIAL		CVD1N4007SRT	1		
	D9701	943203500500M	EOLitemDIODE,BRIDGE.(600V/25A)		CVDGBJ2506	1		
	D9727	943202500840S	DIODE,ZENER(7.5V/0.5W,SOD-123)		CVDMM1Z7V5H	1		
	D9728	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T	1		
	D9913	2013100015O3S	DIODE,ULTRA-HIGHSPEED		CVDKDS160RTKP	1		
	D9914	943202500720S	DIODE,ZENER(3.6V/0.5W,SOD-123)		CVDMM1Z3V6H	1		
	IC718	943232100380S	I.C,DUALOPAMP(SOP-8P)		CVINJM8080G	1		
	IC931	943231010390S	I.C,REGULATOR(+5V,T0220IS)		CVIKIA7805BPI	1		
	IC933	943232100370S	I.C,REGULATOR(+12V,TO220)		CVIKIA7812BPI	1		
	IC934	943231010390S	I.C,REGULATOR(+5V,T0220IS)		CVIKIA7805BPI	1		
	IC935	00D2631099006	I.C,REGULATOR(-5V,T0220IS)		CVIKIA7905PI	1		
	IC936	943231101930S	I.C,REGULATOR(+7V,TO-220IS)		CVIKIA7807BPI	1	*	
	IC937	943231101920S	I.C,REGULATOR(-7V,TO-220IS)		CVIKIA7907PI	1		
	Q9221-9228	943213500160S	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C	8		
	Q9230,9231	943213500160S	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C	2		
	RESISTOR GROUP							
	R7801,7802	nsp	RES,M-OXIDEFILM(2W/470ohm)		CRG2SANJ471RT	2		
	R9201-9207	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT	7		
	R9211-9217	nsp	RES,M-OXIDEFILM(2W/10ohm)		CRG2SANJ100RT	7		
	R9241-9247	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	7		
	R9250	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R9251	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R9711-9713	nsp	RES,M-OXIDEFILM(1W/1Kohm)		CRG1SANJ102RT	3		
	R9727	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R9801-9804	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	4		
	R9806	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R9819,9820	nsp	RES,CHIP(1608/5%/27Kohm)		CRJ10DJ273T	2		
	R9821,9822	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R9823,9824	nsp	RES,CHIP(1608/5%/270ohm)		CRJ10DJ271T	2		
	R9905,9906	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R9907,9908	nsp	RES,CHIP(1608/5%/22Kohm)		CRJ10DJ223T	2		
	R9909	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R9910	nsp	RES,CHIP(1608/5%/33Kohm)		CRJ10DJ333T	1		
	R9911	nsp	RES,CHIP(1608/5%/330Kohm)		CRJ10DJ334T	1		
	R9912	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R9913	nsp	RES,CHIP(1608/5%/3.3Kohm)		CRJ10DJ332T	1		
	R9914	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R9915	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R9916,9917	943124500350M	RES,CEMENT(0.02ohm/3W)		CRF3EJR02	2		
	CAPACIITORS GROUP							
	C9211-9217	nsp	CAP,MYLAR(50V/0.047uF/J)		HCQI1H473JZT	7		
	C9221	nsp	CAP,ELECT(50V/100uF)		CCEA1HH101T	1		
	C9250	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C9251	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C9301	nsp	CAP,ELECT(16V/100uF)-S		CCEA1CKS101T	1		
	C9303	nsp	CAP,ELECT(50V/10uF)-S		CCEA1HKS100T	1		
	C9306	nsp	CAP,ELECT(50V/10uF)-S		CCEA1HKS100T	1		
	C9309	943134010620S	CAP,ELECT(25V/4700uF)		CCEA1EH472E	1		
	C9311,9312	943134010600S	CAP,ELECT(16V/3300uF)		CCEA1CH332E	2		
	C9315,9316	nsp	CAP,ELECT(50V/10uF)-S		CCEA1HKS100T	2		
	C9317,9318	nsp	CAP,ELECT(16V/100uF)-S		CCEA1CKS101T	2		
	C9321,9322	943134010620S	CAP,ELECT(25V/4700uF)		CCEA1EH472E	2		
	C9333	nsp	CAP,MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C9337	nsp	CAP,MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C9531-9541	nsp	CAP,MYLAR(50V/0.01uF/J)		HCQI1H103JZT	11		
	C9631-9641	nsp	CAP,CHIP(1608,50V/1000pF,X7R)_SAMSUNG		CCUS1H102KCS	11		
	C9703	90M-OF100490R	CAP,METALPEFILM(250V/0.1uF)		KCME2E104JP04T	1		
	C9705,9706 EXPLODED_C39 EXPLODED_C40	9631340101805	CAP,ELECT(71V/12000uF),35*58L,NICHICON		CCET71VLKS123N	2		
	C9708	nsp	CAP,CHIP(1608,50V/1000pF,X7R)_SAMSUNG		CCUS1H102KCS	1		
	C9727	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C9801-9803	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG		CCUS1H101JAS	3		
	C9804	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C9806	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG		CCUS1H101JAS	1		
	C9811	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C9905,9906	nsp	CAP,ELECT(100V/1uF),85'CBlack		CCEA2AH1R0T	2		
	C9909	nsp	CAP,ELECT(100V/1uF),85'CBlack		CCEA2AH1R0T	1		
	C9914	nsp	CAP,ELECT(16V/100uF)		CCEA1CH101T	1		
	C9917,9918	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C9919	nsp	CAP,CHIP(1608,50V/10pF,C0G)_SAMSUNG		CCUS1H100JAS	1		
	C9920	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG		CCUS1H101JAS	1		
	OTHER PARTS GROUP							
	BD981	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	BK901,902	nsp	BRACKET,PCB(FUSE)		CMD1A730	2		
	BK903	nsp	PLATE,MAINPCB		CMC2A424	1		
	BN701 EXPLODED_C45	nsp	WIREASS'YLOCKING(4P,2.5MM,220MM,UL1569#20,105)		CWB7E0042203D	1		
	BN702 EXPLODED_C46	nsp	WIREASS'YLOCKING(5P,2.5MM,220MM,UL1569#20,105)		CWB7E0052203D	1		
	BN703 EXPLODED_C44	nsp	WIREASS'YLOCKING(7P,2.5MM,180MM,UL1569#20,105)		CWB7E0071803D	1		
	BN704 EXPLODED_C43	nsp	WIREASS'YLOCKING(6P,2.5MM,400MM,UL1569#20,105)		CWB7E0064003D	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	BN706 EXPLODED C42	nsp	WIREASS'Y(3P,2.0MM,100MM,UL1569#24,105degree)		CWB7C003100HC	1		
	BN782 EXPLODED C41	nsp	WIREASS'YLOCKING(5P,2.5MM,100MM,UL1007#20)		CWB1E0051003D	1		
	BN932 EXPLODED C47	nsp	WIREASS'YLOCKING(9P,2.0MM,220MM,UL1007#26)		CWB1B009220HC	1		
	CN25D	nsp	PINHEADER(25P,1.25mm,STRAIGHT,B-TO-B)		CJP25GI281Z	1		
	CN77D	nsp	PINHEADER(19P,1.25mm,STRAIGHT,B-TO-B)		CJP19GI281Z	1		
	CN782	nsp	LOCK-WAFER/STRAIGHT/2.5MMPITCH/5PIN		CJP05GI289ZY	1		
	CN932	nsp	LOCK-WAFER/STRAIGHT/2MMPITCH/9PIN		CJP09GI288ZY	1		
	CN940	nsp	LOCK-WAFER/STRAIGHT/2.5MMPITCH/5PIN		CJP05GI289ZY	1		
	CN941	nsp	LOCK-WAFER/STRAIGHT/2.5MMPITCH/3PIN		CJP03GI289ZY	1		
	CN971	nsp	WAFER,7P(DIP,3.96PITCH)		CJP07GA90ZY	1		
!	F9331	9636520105105	FUSE(S506Series,250V,2A)		CBA2C2000TLEC	1		
	F9331-9335	nsp	HOLDER,FUSE		KJCFC5S	5		
!	F9332	9636520105105	FUSE(S506Series,250V,2A)		CBA2C2000TLEC	1		
!	F9333	9636520105105	FUSE(S506Series,250V,2A)		CBA2C2000TLEC	1		
!	F9334	9636520105105	FUSE(S506Series,250V,2A)		CBA2C2000TLEC	1		
!	F9335	9636520105105	FUSE(S506Series,250V,2A)		CBA2C2000TLEC	1		
!	F9703	9436525005305	FUSE(215Series,250V/12A)		CBA2C1202TLHEY	1		
	F9703,9704	nsp	HOLDER,FUSE		KJCFC5S	2		
!	F9704	9436525005305	FUSE(215Series,250V/12A)		CBA2C1202TLHEY	1		
	GND92	nsp	PLATE,EARTH(TRONICELECTRONICS)		CJT1A026	1		
	JK921-931	9436431024205	2P,SCREWSPK(R/B)		CJJ5N023Z	11		
	JW651	nsp	WIREASS'Y(1P,80MM,BLK,#22)		CWE5202080A	1		
	JW925A	nsp	WIREASS'Y(1P,100mm,BLK,UL1015#20,CKM-T)		CWE7102100TT	1		
	L9201-9207	9431150102605	COIL,SPEAKER(0.5uH)		CLEY0R5KAK	7		
	RY921-928	9436820103005	RELAY,G5PA-28-MC,DC12V,2C1P		CSL3A018ZE	8		
	RY930	9436820008105	RELAY,BC3-12H,DC12V,2C2P		CSL4A016ZU	1		
	RY931	68201003000AS	RELAY,FTR-F1CL012R,DC12V,2C2P		CSL4A021ZE	1		
	TU901	9431831005105	TUNER,FM(SCREW:FTYPE),AM,SI4730-D60	E3	CNVYST990-A9U1	1		
	TU901	9431831005205	TUNER,RDS,FM(PALTYPE),AM,SI4731-D60	E2	CNVYST990-D8E1	1		
	TU901	9431831005005	TUNER,FM(PALTYPE),AM,SI4730-D60	JP	CNVYST990-A2J1	1		

INPUT PCB ASS'Y

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E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D6803	9632090035105	DIODE,RELIABLEESDPROTECTION		CVDCDS3C05HDMI	1		
	D6835,6836	9632090035105	DIODE,RELIABLEESDPROTECTION		CVDCDS3C05HDMI	2		
	D8795	9432090010805	DIODE,CHIP,SWITCHING		CVD1SS355T	1		
	D8797-8801	9432090010805	DIODE,CHIP,SWITCHING		CVD1SS355T	5		
	D8845-8847	9432030031505	DIODE,RECTIFIER,RADIAL		CVD1N4007SRT	3		
	D8848	9432025007205	DIODE,ZENER(3.6V/0.5W,SOD-123)		CVDMM1Z3V6H	1		
	IC466	9432321003805	I.C,DUALOPAMP(SOP-8P)		CVINJM8080G	1		
	IC471	2358100456005	I.C,8CHVOLUME		CVIR2A15220FP	1		
	IC481-483	9432321003805	I.C,DUALOPAMP(SOP-8P)		CVINJM8080G	3		
	IC484	9432361015405	I.C,FUNCTIONSWITCH(SSOP-32)		CVIBD3841FSE2	1		
	IC486-488	9432321003805	I.C,DUALOPAMP(SOP-8P)		CVINJM8080G	3		
	IC491	9432350038105	I.C,INPUTWITH8CHVOLUME(100PQFP)		CVIR2A15218FP	1		
	Q8713	9432155000305	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8714	9432165000505	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q8717,8718	9432145000305	T.R,MUTE		CVTINC2001AC1	2		
	Q8719	9432135001605	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C	1		
	Q8720	9432155000305	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8733	9432155000305	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8734	9432165000505	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q8737,8738	9432145000305	T.R,MUTE		CVTINC2001AC1	2		
	Q8740	9432155000305	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8753	9432155000305	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8754	9432165000505	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q8757,8758	9432145000305	T.R,MUTE		CVTINC2001AC1	2		
	Q8760	9432155000305	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8795	9432135001605	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C	1		
	Q8797-8800	9432135001605	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C	4		
	Q8813	9432155000305	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8814	9432165000505	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q8817	9432145000305	T.R,MUTE		CVTINC2001AC1	1		
	Q8820	9432155000305	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8863	9432155000305	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8864	9432165000505	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q8870	9432155000305	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8923	9432155000305	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8924	9432165000505	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q8927,8928	9432145000305	T.R,MUTE		CVTINC2001AC1	2		
	Q8930	9432155000305	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8973	9432155000305	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8974	9432165000505	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q8977,8978	9432145000305	T.R,MUTE		CVTINC2001AC1	2		
	Q8980	9432155000305	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	IC898,899	9432331020305	I.C,Shift/StoreRegister(SOIC-16P)		CVIMC74HC4094AD	2	*	
	RESISTOR GROUP							
	R4601,4602	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	2		
	R4603,4604	nsp	RES,CHIP(1608/5%/51Kohm)		CRJ10DJ513T	2		
	R4605,4606	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	2		
	R4607,4608	nsp	RES,CHIP(1608/5%/51Kohm)		CRJ10DJ513T	2		
	R4609,4610	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R4611,4612	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	2		
	R4613,4614	nsp	RES,CHIP(1608/5%/51Kohm)		CRJ10DJ513T	2		
	R4615,4616	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	2		
	R4617,4618	nsp	RES,CHIP(1608/5%/51Kohm)		CRJ10DJ513T	2		
	R4619,4620	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R4625,4626	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	2		
	R4627,4628	nsp	RES,CHIP(1608/5%/51Kohm)		CRJ10DJ513T	2		
	R4629,4630	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R4661	nsp	RES,CHIP(1608/5%/0ohm)	E3/JP	CRJ10DJ0R0T	1		
	R4661	nsp	RES,CHIP(1608/5%/4.7Kohm)	E2	CRJ10DJ472T	1		
	R4662	nsp	RES,CHIP(1608/5%/0ohm)	E3/JP	CRJ10DJ0R0T	1		
	R4662	nsp	RES,CHIP(1608/5%/4.7Kohm)	E2	CRJ10DJ472T	1		
	R4663,4664	nsp	RES,CHIP(1608/5%/390ohm)		CRJ10DJ391T	2		
	R4665,4666	nsp	RES,CHIP(1608/5%/68Kohm)		CRJ10DJ683T	2		
	R4667,4668	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	2		
	R4669,4670	nsp	RES,CHIP(1608/5%/47ohm)		CRJ10DJ470T	2		
	R4671,4672	nsp	RES,CHIP(1608/5%/240ohm)		CRJ10DJ241T	2		
	R4679,4680	nsp	RES,CHIP(1608/5%/130Kohm)		CRJ10DJ134T	2		
	R4681,4682	nsp	RES,CHIP(1608/5%/11Kohm)		CRJ10DJ113T	2		
	R4683,4684	nsp	RES,CHIP(1608/5%/22ohm)		CRJ10DJ220T	2		
	R4685,4686	nsp	RES,CHIP(1608/5%/47ohm)		CRJ10DJ470T	2		
	R4687,4688	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	2		
	R4701-4705	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	5		
	R4707	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R4709-4716	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	8		
	R4719,4720	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R4721,4722	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	2		
	R4737,4738	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R4743-4746	nsp	RES,CHIP(1608/5%/47Kohm)		CRJ10DJ473T	4		
	R4761-4771	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	11		
	R4773,4774	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R4781-4784	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	4		
	R4794-4799	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	6		
	R4801,4802	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	2		
	R4803,4804	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	2		
	R4805,4806	nsp	RES,CHIP(1608/5%/270Kohm)		CRJ10DJ274T	2		
	R4807,4808	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R4811,4812	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R4813,4814	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R4815-4818	nsp	RES,CHIP(1608/5%/68Kohm)		CRJ10DJ683T	4		
	R4819,4820	nsp	RES,CHIP(1608/5%/33Kohm)		CRJ10DJ333T	2		
	R4821-4824	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	4		
	R4825,4826	nsp	RES,CHIP(1608/5%/47ohm)		CRJ10DJ470T	2		
	R4827,4828	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R4831,4832	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R4833-4836	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	4		
	R4851,4852	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	2		
	R4853,4854	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	2		
	R4855,4856	nsp	RES,CHIP(1608/5%/270Kohm)		CRJ10DJ274T	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R4857,4858	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R4861,4862	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R4863,4864	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R4865-4868	nsp	RES,CHIP(1608/5%/68Kohm)		CRJ10DJ683T	4		
	R4869,4870	nsp	RES,CHIP(1608/5%/33Kohm)		CRJ10DJ333T	2		
	R4871-4874	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	4		
	R4875,4876	nsp	RES,CHIP(1608/5%/47ohm)		CRJ10DJ470T	2		
	R4877,4878	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R4881,4882	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R4883-4886	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	4		
	R4893,4894	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R4901-4908	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	8		
	R4911-4914	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	4		
	R4921	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R4924	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R4931-4934	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	4		
	R6803	nsp	RES,CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
	R6837,6838	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R6841,6842	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R8701,8702	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	2		
	R8703-8706	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	4		
	R8707-8710	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	4		
	R8711,8712	nsp	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T	2		
	R8713	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8717,8718	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R8719	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1		
	R8720	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R8721,8722	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	2		
	R8723-8726	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	4		
	R8727-8730	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	4		
	R8731,8732	nsp	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T	2		
	R8733	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8737,8738	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R8739	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1		
	R8740	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R8741,8742	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	2		
	R8743-8746	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	4		
	R8747-8750	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	4		
	R8751,8752	nsp	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T	2		
	R8753	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8757,8758	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R8759	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1		
	R8760	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R8767-8770	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	4		
	R8771,8772	nsp	RES,CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	2		
	R8787-8790	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	4		
	R8791,8792	nsp	RES,CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	2		
	R8801	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1		
	R8803	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R8805	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R8807	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R8809	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R8811	nsp	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T	1		
	R8813	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8817	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8819	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1		
	R8820	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R8846	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R8848	nsp	RES,CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R8849	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8863	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8869	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1		
	R8870	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R8901,8902	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R8911,8912	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	2		
	R8913-8916	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	4		
	R8917-8920	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	4		
	R8921,8922	nsp	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T	2		
	R8923	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8927,8928	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R8929	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1		
	R8930	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R8951,8952	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R8961,8962	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	2		
	R8963-8966	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	4		
	R8967-8970	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	4		
	R8971,8972	nsp	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T	2		
	R8973	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8977,8978	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R8979	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1		
	R8980	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R8991-8998	nsp	RES,CHIP(1608/5%/820Kohm)		CRJ10DJ824T	8		
	CAPACIITORS GROUP							
	C4603,4604	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	2		
	C4607,4608	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	2		
	C4613,4614	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	2		
	C4617,4618	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	2		
	C4627,4628	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	2		
	C4641	00D2544583971	CAP,ELEC(ELNAROBSERIES,47uF/50V)		CCEA1HROB470T	1		
	C4661,4662	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG	E2	CCUS1H101JAS	2		
	C4663,4664	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	2		
	C4665,4666	nsp	CAP,CHIP(1608,50V/220pF,C0G)_SAMSUNG		CCUS1H221JAS	2		
	C4675,4676	nsp	CAP,ELECT(10V/220uF)		CCEA1AH221T	2		
	C4677,4678	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG		CCUS1H101JAS	2		
	C4679,4680	nsp	CAP,MYLAR(50V/0.022uF/J)		HCQI1H223JZT	2		
	C4681,4682	943139001260S	CAP,MYLAR(50V/6800pF/J)		HCQI1H682JZT	2		
	C4687-4690	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	4		
	C4701,4702	nsp	CAP,ELECT(25V/220uF)		CCEA1EH221T	2		
	C4705	nsp	CAP,ELECT(25V/220uF)		CCEA1EH221T	1		
	C4706	nsp	CAP,ELECT(16V/100uF)		CCEA1CH101T	1		
	C4710,4711	nsp	CAP,ELECT(16V/100uF)		CCEA1CH101T	2		
	C4713,4714	nsp	CAP,ELECT(16V/100uF)		CCEA1CH101T	2		
	C4721,4722	nsp	CAP,CHIP(1608,16V/0.15uF,X7R,X7S)_SAMSUNG		CCUS1C154KCS	2		
	C4723,4724	nsp	CAP,CHIP(1608,50V/0.047uF,X7R)_SAMSUNG		CCUS1H473KCS	2		
	C4725,4726	nsp	CAP,CHIP(1608,50V/0.022uF,X7R)_SAMSUNG		CCUS1H223KCS	2		
	C4727,4728	00D9430103905	CAP,ELECT(16V/470uF)		CCEA1CH471T	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C4729,4730	9431345000070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	2		
	C4742	00D2544583971	CAP,ELEC(ELNAROBSERIES,47uF/50V)		CCEA1HROB470T	1		
	C4761-4763	00D2544583971	CAP,ELEC(ELNAROBSERIES,47uF/50V)		CCEA1HROB470T	3		
	C4764-4771	00D9430175001	CAP,ELECT(25V/47uF)		CCEA1EH470T	8		
	C4773,4774	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	2		
	C4781-4784	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	4		
	C4801,4802	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	2		
	C4803-4806	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	4		
	C4811,4812	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	2		
	C4819,4820	nsp	CAP,CHIP(1608,50V/68pF,C0G)_SAMSUNG		CCUS1H680JAS	2		
	C4823,4824	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG		CCUS1H101JAS	2		
	C4825-4828	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	4		
	C4831,4832	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	2		
	C4851,4852	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	2		
	C4853-4856	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	4		
	C4861,4862	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	2		
	C4869,4870	nsp	CAP,CHIP(1608,50V/68pF,C0G)_SAMSUNG		CCUS1H680JAS	2		
	C4873,4874	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG		CCUS1H101JAS	2		
	C4875-4878	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	4		
	C4881,4882	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	2		
	C4891,4892	00D9430148708	CAP,ELECT(50V/47uF)		CCEA1HH470T	2		
	C4901	nsp	CAP,ELECT(16V/100uF)		CCEA1CH101T	1		
	C4903	nsp	CAP,ELECT(16V/100uF)		CCEA1CH101T	1		
	C4905	nsp	CAP,ELECT(16V/100uF)		CCEA1CH101T	1		
	C4907	nsp	CAP,ELECT(16V/100uF)		CCEA1CH101T	1		
	C4909-4911	nsp	CAP,ELECT(16V/100uF)		CCEA1CH101T	3		
	C4913	nsp	CAP,ELECT(16V/100uF)		CCEA1CH101T	1		
	C4921	nsp	CAP,CHIP(1608,16V/0.15uF,X7R,X7S)_SAMSUNG		CCUS1C154KCS	1		
	C4922	nsp	CAP,CHIP(1608,50V/0.047uF,X7R)_SAMSUNG		CCUS1H473KCS	1		
	C4923	nsp	CAP,CHIP(1608,50V/0.022uF,X7R)_SAMSUNG		CCUS1H223KCS	1		
	C4924	nsp	CAP,CHIP(1608,16V/0.15uF,X7R,X7S)_SAMSUNG		CCUS1C154KCS	1		
	C4925	nsp	CAP,CHIP(1608,50V/0.047uF,X7R)_SAMSUNG		CCUS1H473KCS	1		
	C4926	nsp	CAP,CHIP(1608,50V/0.022uF,X7R)_SAMSUNG		CCUS1H223KCS	1		
	C4935,4936	00D9430103905	CAP,ELECT(16V/470uF)		CCEA1CH471T	2		
	C6802	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6803	nsp	CAP,ELECT(10V/220uF)-S		CCEA1AKS221T	1		
	C8703,8704	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	2		
	C8707,8708	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	2		
	C8709,8710	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	2		
	C8719	nsp	CAP,ELECT(50V/0.1uF)		CCEA1HH0R1T	1		
	C8723,8724	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	2		
	C8727,8728	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	2		
	C8729,8730	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	2		
	C8739	nsp	CAP,ELECT(50V/0.1uF)		CCEA1HH0R1T	1		
	C8740	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	1		
	C8743,8744	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	2		
	C8747,8748	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	2		
	C8749,8750	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	2		
	C8759	nsp	CAP,ELECT(50V/0.1uF)		CCEA1HH0R1T	1		
	C8767,8768	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	2		
	C8769,8770	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	2		
	C8780	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	1		
	C8787,8788	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	2		
	C8789,8790	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	2		
	C8800	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	1		
	C8803	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	1		
	C8807	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	1		
	C8809	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	1		
	C8819	nsp	CAP,ELECT(50V/0.1uF)		CCEA1HH0R1T	1		
	C8820	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	1		
	C8849	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C8860	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	1		
	C8869	nsp	CAP,ELECT(50V/0.1uF)		CCEA1HH0R1T	1		
	C8913,8914	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	2		
	C8917,8918	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	2		
	C8919,8920	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	2		
	C8929	nsp	CAP,ELECT(50V/0.47uF)		CCEA1HHR47T	1		
	C8963,8964	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	2		
	C8967,8968	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	2		
	C8969,8970	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	2		
	C8979	nsp	CAP,ELECT(50V/0.47uF)		CCEA1HHR47T	1		
	C8980	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	1		
	C8991,8992	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	OTHER PARTS GROUP							
	BK469	nsp	EARTH,INPUT		CMC1A440	1		
	BK608	nsp	EARTH,USB		CMC1A432	1		
	BN23C	nsp	PINSOCKET(21P,1.25mm,ANGLE,B-TO-B)		CJP21HJ282Z	1		
	BN24C	nsp	PINSOCKET(27P,1.25mm,ANGLE,B-TO-B)		CJP27HJ282Z	1		
	BN26C	nsp	PINSOCKET(15P,1.25mm,ANGLE,B-TO-B)		CJP15HJ282Z	1		
	BN321 EXPLODED_C10	nsp	WIREASS'Y(5P,2.0MM,500MM,UL2725#24/#28,1P+2C)USB		CWB8A005500HC	1	*	
	BN461 EXPLODED_C25	nsp	WIREASS'YLocking(YH)(13P,2MM,180MM,#26)		CWB1B013180HC	1	*	
	BN64C	nsp	PINSOCKET(13P,1.25mm,ANGLE,B-TO-B)		CJP13HJ282Z	1		
	CN706	nsp	LOCK-WAFER/STRAIGHT/2MMPITCH/3PIN		CJP03GI288ZY	1		
	JK461-463	943643101570S	JACK,4P(W/R,W/R),SEPA-GND		CJJ4P048U	3		
	JK608	943643102460D	JACK,USBANGLETYPE(BLACK1.5A)		CJJ9X014Z	1		
	JK871	643010079004S	JACK,4P(W/R,W/B),SEPA-GND,SILVER		CJJ4P077Z	1		
	JK875	943643101570S	JACK,4P(W/R,W/R),SEPA-GND		CJJ4P048U	1		
	JK879	943643101570S	JACK,4P(W/R,W/R),SEPA-GND		CJJ4P048U	1		
	JK881	943643010160S	JACK,1P(BK),SEPA-GND,SILVER		CJJ4M046U	1		
	JK886	943643010150S	JACK,2P(W/R),SEPA-GND,SILVER		CJJ4N034U	1		
	JK891	943643101570S	JACK,4P(W/R,W/R),SEPA-GND		CJJ4P048U	1		
	L4661,4662	00D9430193601	COIL,TOROIDAL	E2	CLU9S004Z	2		
	L6831	nsp	FERRITECHIPBEAD(2012/220R)		CLZBLM21PG221SN	1		
	RY875	943682000810S	RELAY,BC3-12H,DC12V,2C2P		CSL4A016ZU	1		
	RY877-881	943682000810S	RELAY,BC3-12H,DC12V,2C2P		CSL4A016ZU	5		

F_HDMI PCB ASS'Y

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E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	IC541	963236101380P	I.C,HDMIBUFFER		CVIAD8195ACPZ	1		
	Q5401	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	1		
	Q5402	943216500040S	T.R,RT1N241C(22K-22K)		CVTRT1N241C	1		
	RESISTOR GROUP							
	R5401	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R5403	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R5404	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R5405	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R5407	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R5409	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R5410,5411	nsp	RES,CHIP(1005/5%/2Kohm)		CRJ06IJ202T	2		
	RN501-504	nsp	RES,CHIP(1005/5%/0ohm*2)		CRJ062IJ0R0T	4		
	CAPACIITORS GROUP							
	C5401-5405	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	5		
	C5406	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C5407-5411	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	5		
	C5412	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C5413	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C5414	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C5420-5423	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	4		
	C5424	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	OTHER PARTS GROUP							
	BK541	nsp	EARTH,HDMI		CMC2A432	1		
	CN541	nsp	WAFER,FFC,SMD(23P-1mm,STRAIGHT)		CJP23GA193ZY	1		
	JK541	943643103000S	JACK,HDMI(TYPE-A,SMT-19P,W/OFLANGE)		CJJ9H022Z	1	*	
	L5401,5402	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		

SMPS PCB ASS'Y

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BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D9001-9006	00D9630328409	DIODE,RECTIFIER,AXIAL		CVD1N4007ST	6		
	D9008,9009	00D9630328409	DIODE,RECTIFIER,AXIAL		CVD1N4007ST	2		
	D9010	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D9012 EXPLODED_M17	nsp	HEATSINKASS'Y(CVDSRL3060P+CMY3A238)		CVDSRL3060PBYA	1		
	D9013	00D9630328409	DIODE,RECTIFIER,AXIAL		CVD1N4007ST	1		
	IC901 EXPLODED_M16	nsp	HEATSINKASS'Y(CVITOP256YN+CMY6A025)		CVITOP256YNBZA	1		
!	IC902	9632390104805	I.C,PHOTOCOUPLER		CVIPC123Y22FZ0F	1		
	IC903	212050010508S	I.C,SHUNTREGULATOR(TO-92)		CVIKIA2431AP	1		
	Q9001	9432295001105	F.E.T,INK0010AC1(N-CH,SC-59,MOSFET,ISAHAYA)		CVTINK0010AC1	1		
	Q9003	9432145000205	T.R,2SC3052		CVT2SC3052	1		
	ZD908	9432025008505	TVSDIODE,120V/5W	E3/JP	CVDP6KE120AT	1		
	ZD911	9432025008605	TVSDIODE,150V/5W		CVDP6KE150AT	1		
	ZD918	9632020104405	DIODE,ZENER,1/2W,22V		CVDZJ22BT	1		
	ZD919	00D9600095607	DIODE,ZENER,1/2W,5.6V		CVDZJ5.6BT	1		
	ZD920	00D2760762958	DIODE,ZENER,1/2W,39V		CVDZJ39BT	1		
	ZD921	00D9430196306	DIODE,ZENER,1/2W,7.5V	E3	CVDZJ7.5BT	1		
	ZD921	9432020009405	DIODE,ZENER,1/2W,16V	E2	CVDZJ16BT	1		
	ZD921	00D9600095607	DIODE,ZENER,1/2W,5.6V	JP	CVDZJ5.6BT	1		
	ZD922	00D2760762958	DIODE,ZENER,1/2W,39V		CVDZJ39BT	1		
	RESISTOR GROUP							
	R9004	nsp	RES,CARBON(1/5W,330Kohm,J)		CRD20TJ334T	1		
	R9006	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R9008,9009	nsp	RES,CARBON(1/5W,2.2Mohm,J)	E3/JP	CRD20TJ225T	2		
	R9010	nsp	RES,CARBON(1/5W,1Mohm,J)	E3/JP	CRD20TJ105T	1		
	R9014	nsp	RES,CHIP(1608/5%/270Kohm)	E3/JP	CRJ10DJ274T	1		
	R9014	nsp	RES,CHIP(1608/5%/56Kohm)	E2	CRJ10DJ563T	1		
	R9015	nsp	RES,CHIP(1608/5%/8.2Kohm)		CRJ10DJ822T	1		
	R9016	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R9017	nsp	RES,CARBON(1/5W,6.8ohm,J)		CRD20TJ6R8T	1		
	R9018	nsp	RES,CARBON(1/5W,56ohm,J)		CRD20TJ560T	1		
	R9019	nsp	RES,CARBON(1/5W,3.3Kohm,J)		CRD20TJ332T	1		
	R9020	nsp	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R9021	nsp	RES,CHIP(1608/1%/22Kohm)		CRJ10DF2202T	1		
	R9024	nsp	RES,CHIP(1608/1%/6.8Kohm)		CRJ10DF6801T	1		
	R9026	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R9027	nsp	RES,CARBON(1/5W,4.7Kohm,J)		CRD20TJ472T	1		
!	R9031	9431215010005	RES,SURGE,(8.2MOHM,5%,1/2W,PRCTYPE)		CRO50TJ825T	1		
	R9035-9037	nsp	RES,CHIP(2012/5%/1Mohm)		CRJ18AJ105T	3		
	CAPACIITORS GROUP							
!	C9001-9003	9631320119405	CAP,CERAMIC(X1/Y2,0.01uF,AC250V)		CCKDKY103MFM	3		
	C9004 EXPLODED_C21	9431345030405	CAP,ELECT(200V/220uF),105'C	E3/JP	CCET200NHA221ES	1		
	C9004	9631340102005	CAP,ELECT(400V/100UF,18X40,NHA)	E2	CCET400NHA101ES	1		
	C9006	nsp	CAP,CHIP(1608,50V/0.047uF,X7R)_SAMSUNG		CCUS1H473KCS	1		
	C9007	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	1		
	C9008	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C9009	00D9430175108	CAP,ELECT(50V/10uF),105'C		CCEA1HNXA100TS	1		
	C9010	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C9012	9631320101205	CAP,CERAMIC(DC1KV/1000pF)		CCKDDEH102KCM	1		
	C9016	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C9017	00MOA47602520	CAP,ELECT(25V/47uF),105'C		CCEA1ENXA470TS	1		
	C9018	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C9019	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C9020-9022 EXPLODED_C16 EXPLODED_C17 EXPLODED_C18	9631340102205	CAP,ELECT(6.3V/5600uF)		CCEA0JNXA562ES	3		
	C9024	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
!	C9028	9631320119305	CAP,CERAMIC(X1/Y1,2200P,AC250V)		CCKDKX222MEM	1		
	C9029	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	OTHER PARTS GROUP							
	BK901,902	nsp	BRACKET,PCBM3		CMD1A834	2		
	BK903	nsp	BRACKET,PCB		CMD1A629	1		
	BN903 EXPLODED_C19	nsp	WIREASS'YLOCKING(5P,2.5MM,400MM,UL1569#22,105)		CWB7D0054003D	1		
	CN901	nsp	WAFER,2P,3.96mm		CJP02KA060ZY	1		
	CN902	nsp	WAFER,2P,7.92mm		CJP02GA89ZY	1		
!	CX901,902	9431395000205	CAP,POLYPROPYLENEFILM(0.1uF/275VAC)		CCQF2E104KZE-T	2		
!	CY901,902	9631340117305	CAP,CERAMIC(X1/Y1,470P,AC250V)		CCKDKX471KBM	2		
!	F9001	9636520105105	FUSE(S506Series,250V,2A)	E3/JP	CBA2C2000TLEC	1		
!	F9001	9636520105005	FUSE(S506Series,250V,1.6A)	E2	CBA2C1600TLEC	1		
	F9001,9002	nsp	HOLDER,FUSE		KJCFC5S	2		
!	F9002	90M-FS001220R	FUSE(218Series,250V/8A)	E3/JP	KBA2C8000TLEY	1		
!	F9002	90M-FS001490R	FUSE(218Series,250V/4A)	E2	KBA2C4000TLEY	1		
!	LF901 EXPLODED_C22	9431215010005	LINEFILTER(1.2A,29mH)	E3/JP	CLZ9Z176Z	1		
!	LF901	9431345030405	LINEFILTER(0.7A,65mH)	E2	CLZ9Z177Z	1		
!	RY901	9636820103705	RELAY,HL31-1AT-5H,DC5V,1C1P		CSL1C006ZE	1		
!	T9001 EXPLODED_C20	9431021003505	TRANS,SWITCHING		CLT9Z093ZE	1		
	EXPLODED_M18	nsp	SHEILD,TRANSCOVER		CMC1A445	1		
	★	nsp	RUBBER,TRANS		CHG1A587	1		
	★	nsp	TAPE,BOTHSIDE		C4FA101	0.02		
	★	nsp	TRHEATSINK		CMY3A238	1		
	★	nsp	SCREW		CTW3+10JR	1		
	★	9432095000305	DIODE,LOWFORWARDSCHOTTKYRECTIFIER		CVDSRL3060P	1		
	★	nsp	HEATSINK,TR		CMY6A025	1		
	★	nsp	SCREW		CTB3+8JR	1		
!	★	23901007520AS	I.C,OFFLINEPOWERSWITCH		CVITOP256YN	1		

FRONTCNT PCB ASS'Y

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	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	IC301	943239101080S	I.C,DAC(8CH,HTSSOP-48)		CVIPCM1690DCAR	1		
	IC302-305	943232100380S	I.C,DUALOPAMP(SOP-8P)		CVINJM8080G	4		
	IC311	943239101080S	I.C,DAC(8CH,HTSSOP-48)		CVIPCM1690DCAR	1		
	IC312,313	943232100380S	I.C,DUALOPAMP(SOP-8P)		CVINJM8080G	2		
	RESISTOR GROUP							
	R3001	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R3002	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R3003,3004	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	2		
	R3011-3014	nsp	RES,CHIP(1608/5%/15Kohm)		CRJ10DJ153T	4		
	R3015-3018	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	4		
	R3019-3022	nsp	RES,CHIP(1608/5%/12Kohm)		CRJ10DJ123T	4		
	R3023-3026	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	4		
	R3027,3028	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R3029-3032	nsp	RES,CHIP(1608/5%/15Kohm)		CRJ10DJ153T	4		
	R3033	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R3035	nsp	RES,CHIP(1608/5%/12Kohm)		CRJ10DJ123T	1		
	R3036	nsp	RES,CHIP(1608/5%/22Kohm)		CRJ10DJ223T	1		
	R3037	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R3038	nsp	RES,CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R3039	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R3040	nsp	RES,CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R3041	nsp	RES,CHIP(1608/5%/12Kohm)		CRJ10DJ123T	1		
	R3042	nsp	RES,CHIP(1608/5%/22Kohm)		CRJ10DJ223T	1		
	R3043	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R3045,3046	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R3047	nsp	RES,CHIP(1608/5%/15Kohm)		CRJ10DJ153T	1		
	R3049	nsp	RES,CHIP(1608/5%/15Kohm)		CRJ10DJ153T	1		
	R3053	nsp	RES,CHIP(1608/5%/22Kohm)		CRJ10DJ223T	1		
	R3055	nsp	RES,CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R3057	nsp	RES,CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R3059	nsp	RES,CHIP(1608/5%/22Kohm)		CRJ10DJ223T	1		
	R3063	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R3065-3068	nsp	RES,CHIP(1608/5%/15Kohm)		CRJ10DJ153T	4		
	R3069	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R3071	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R3073,3074	nsp	RES,CHIP(1608/5%/12Kohm)		CRJ10DJ123T	2		
	R3075-3078	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	4		
	R3079,3080	nsp	RES,CHIP(1608/5%/12Kohm)		CRJ10DJ123T	2		
	R3081	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R3083	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R3085,3086	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R3101	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R3102	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R3103,3104	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	2		
	R3111-3114	nsp	RES,CHIP(1608/5%/15Kohm)		CRJ10DJ153T	4		
	R3115,3116	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	2		
	R3117,3118	nsp	RES,CHIP(1608/5%/12Kohm)		CRJ10DJ123T	2		
	R3119-3122	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	4		
	R3123,3124	nsp	RES,CHIP(1608/5%/12Kohm)		CRJ10DJ123T	2		
	R3125,3126	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	2		
	R3127,3128	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R3129-3132	nsp	RES,CHIP(1608/5%/15Kohm)		CRJ10DJ153T	4		
	R3133,3134	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	2		
	R3135,3136	nsp	RES,CHIP(1608/5%/12Kohm)		CRJ10DJ123T	2		
	R3137-3140	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	4		
	R3141,3142	nsp	RES,CHIP(1608/5%/12Kohm)		CRJ10DJ123T	2		
	R3143,3144	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	2		
	R3145	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R3147	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	CAPACIITORS GROUP							
	C3001	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C3002	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S) SAMSUNG		CCUS1A105KCS	1		
	C3003	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
	C3004	00D2544577958	CAP,ELECT(16V/220uF),ELNA/RA3		CCEA1CRA3221T	1		
	C3005	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S) SAMSUNG		CCUS1A105KCS	1		
	C3006	00D9430148708	CAP,ELECT(50V/47uF)		CCEA1HH470T	1		
	C3007	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S) SAMSUNG		CCUS1A105KCS	1		
	C3012,3013	nsp	CAP,CHIP(2012,50V/1800pF,MURATAGRM21)		CCUMUC1H182JAM	2		
	C3015-3018	nsp	CAP,CHIP(2012,50V/270pF,MURATAGRM21)		CCUMUC1H271JAM	4		
	C3021,3022	nsp	CAP,ELECT(10V/220uF)		CCEA1AH221T	2		
	C3023	nsp	CAP,CHIP(2012,50V/1800pF,MURATAGRM21)		CCUMUC1H182JAM	1		
	C3024	nsp	CAP,CHIP(2012,50V/1000pF,MURATAGRM21)		CCUMUC1H102JAM	1		
	C3025	nsp	CAP,CHIP(2012,50V/270pF,MURATAGRM21)		CCUMUC1H271JAM	1		
	C3026	nsp	CAP,CHIP(2012,50V/150pF,MURATAGRM21)		CCUMUC1H151JAM	1	*	
	C3027	nsp	CAP,CHIP(2012,50V/270pF,MURATAGRM21)		CCUMUC1H271JAM	1		
	C3028	nsp	CAP,CHIP(2012,50V/150pF,MURATAGRM21)		CCUMUC1H151JAM	1	*	
	C3031	nsp	CAP,CHIP(2012,50V/1000pF,MURATAGRM21)		CCUMUC1H102JAM	1		
	C3032,3033	nsp	CAP,CHIP(2012,50V/150pF,MURATAGRM21)		CCUMUC1H151JAM	2	*	
	C3037,3038	nsp	CAP,CHIP(2012,50V/1800pF,MURATAGRM21)		CCUMUC1H182JAM	2		
	C3039-3042	nsp	CAP,CHIP(2012,50V/270pF,MURATAGRM21)		CCUMUC1H271JAM	4		
	C3055,3056	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	2		
	C3057,3058	nsp	CAP,CHIP(1608,50V/1000pF,X7R) SAMSUNG		CCUS1H102KCS	2		
	C3061-3063	nsp	CAP,CHIP(1608,50V/1000pF,X7R) SAMSUNG		CCUS1H102KCS	3		
	C3064-3066	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	3		
	C3067-3069	nsp	CAP,CHIP(1608,50V/1000pF,X7R) SAMSUNG		CCUS1H102KCS	3		
	C3072-3074	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	3		
	C3101	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C3102	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S) SAMSUNG		CCUS1A105KCS	1		
	C3103	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
	C3104	00D9430148708	CAP,ELECT(50V/47uF)		CCEA1HH470T	1		
	C3105	00D2544577958	CAP,ELECT(16V/220uF),ELNA/RA3		CCEA1CRA3221T	1		
	C3106,3107	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S) SAMSUNG		CCUS1A105KCS	2		
	C3121,3122	nsp	CAP,CHIP(2012,50V/1800pF,MURATAGRM21)		CCUMUC1H182JAM	2		
	C3123-3126	nsp	CAP,CHIP(2012,50V/270pF,MURATAGRM21)		CCUMUC1H271JAM	4		
	C3129,3130	nsp	CAP,ELECT(10V/220uF)		CCEA1AH221T	2		
	C3131,3132	nsp	CAP,CHIP(2012,50V/1800pF,MURATAGRM21)		CCUMUC1H182JAM	2		
	C3133-3136	nsp	CAP,CHIP(2012,50V/270pF,MURATAGRM21)		CCUMUC1H271JAM	4		
	C3147,3148	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C3149,3150	nsp	CAP,CHIP(1608,50V/1000pF,X7R)_SAMSUNG		CCUS1H102KCS	2		
	C3153,3154	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C3155,3156	nsp	CAP,CHIP(1608,50V/1000pF,X7R)_SAMSUNG		CCUS1H102KCS	2		
	C9701,9702	nsp	CAP,ELECT(10V/220uF)		CCEA1AH221T	2		
	OTHER PARTS GROUP							
	BN25D	nsp	PINSOCKET(25P,1.25mm,ANGLE,B-TO-B)		CJP25HJ282Z	1		
	CN21A	nsp	PINHEADER(19P,1.25mm,STRAIGHT,B-TO-B)		CJP19GI281Z	1		
	CN21B	nsp	PINHEADER(19P,1.25mm,STRAIGHT,B-TO-B)		CJP19GI281Z	1		
	CN24A	nsp	PINHEADER(27P,1.25mm,STRAIGHT,B-TO-B)		CJP27GI281Z	1		
	CN24C	nsp	PINHEADER(27P,1.25mm,STRAIGHT,B-TO-B)		CJP27GI281Z	1		
	CN25A	nsp	PINHEADER(23P,1.25mm,STRAIGHT,B-TO-B)		CJP23GI281Z	1		
	CN26A	nsp	PINHEADER(09P,1.25mm,STRAIGHT,B-TO-B)		CJP09GI281Z	1		
	CN26C	nsp	PINHEADER(15P,1.25mm,STRAIGHT,B-TO-B)		CJP15GI281Z	1		
	JW9602	nsp	WIREASS'Y(1P,80MM,BLK,#22)		CWE5202080A	1		
	JW9604	nsp	WIREASS'Y(1P,80MM,BLK,#22)		CWE5202080A	1		

SIDECNT PCB ASS'Y

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

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

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

E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	OTHER PARTS GROUP							
	BN77D	nsp	PINSOCKET(19P,1.25mm,ANGLE,B-TO-B)		CJP19HJ282Z	1		
	CN23A	nsp	PINHEADER(27P,1.25mm,STRAIGHT,B-TO-B)		CJP27GI281Z	1		
	CN23C	nsp	PINHEADER(21P,1.25mm,STRAIGHT,B-TO-B)		CJP21GI281Z	1		
	CN27A	nsp	PINHEADER(15P,1.25mm,STRAIGHT,B-TO-B)		CJP15GI281Z	1		
	CN27B	nsp	PINHEADER(19P,1.25mm,STRAIGHT,B-TO-B)		CJP19GI281Z	1		
	CN28B	nsp	PINHEADER(13P,1.25mm,STRAIGHT,B-TO-B)		CJP13GI281Z	1		
	CN64C	nsp	PINHEADER(13P,1.25mm,STRAIGHT,B-TO-B)		CJP13GI281Z	1		
	JW96	nsp	WIREASS'Y(1P,80MM,BLK,#22)		CWE5202080A	1		
	JW9601	nsp	WIREASS'Y(1P,80MM,BLK,#22)		CWE5202080A	1		
	JW97	nsp	WIREASS'Y(1P,80MM,BLK,#22)		CWE5202080A	1		

DIGITAL PCB ASS'Y

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

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

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

E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D1101	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T	1		
	D1102,1103	2013100015O3S	DIODE,ULTRA-HIGHSPEED		CVDKDS160RTKP	2		
	D1701	2013100015O3S	DIODE,ULTRA-HIGHSPEED		CVDKDS160RTKP	1		
	D1902	2013100015O3S	DIODE,ULTRA-HIGHSPEED		CVDKDS160RTKP	1		
	D1904	2013100015O3S	DIODE,ULTRA-HIGHSPEED		CVDKDS160RTKP	1		
	D3975	00D2760718902	DIODE,SCHOTTKY,30V		CVDRB521S-30	1		
	D4347-4352	943204500380S	DIODE,SCHOTTKYBARRIEAR(40V,0.03A,SOD-523)		CVDRB751S-40	6	*	
	IC111-120	943239101070S	I.C,DC-DCCONVERTER(3A,QFNT&R-24P)		CVIEN5339QI	10		
	IC121	943239010400S	I.C,REGULATOR(3.3V/TO-252)		CVINJM2845DL133	1		
	IC122	943239100730S	I.C,SYSTEMRESET(4.8V,SOT-25A)		CVIPST8448NR_A	1		
	IC123	943239010400S	I.C,REGULATOR(3.3V/TO-252)		CVINJM2845DL133	1		
	IC125	943239101070S	I.C,DC-DCCONVERTER(3A,QFNT&R-24P)		CVIEN5339QI	1		
	IC151	-	I.C,CPU(2M/PLQP0144KA-A)		CVIR5F56108VNFP	1		
	└IC151	943243102570D	IC,MAINCPU(AVR-X4100WE3)	E3	CVIANAM2050AV	1	*	
	└IC151	943243102560D	IC,MAINCPU(AVR-X4100WE2)	E2	CVIANAM2051AV	1	*	
	└IC151	943243102820S	IC,MAINCPU(AVR-X4100WK)	JP	CVIANAM2052AV	1	*	
	IC152	nsp	I.C,EEPROM(256KBIT,SOP-8P)		CVIR1EX24256BSA	1		
	IC153,154	943233102030S	I.C,Shift/StoreRegister(SOIC-16P)		CVIMC74HC4094AD	2	*	
	IC171	-	I.C,CPU(32BIT,1MFLASH)		CVIR5F5210ABDFP	1		
	└IC171	943243102830S	I.C,SUBCPU(AVR-X4100WBKE3)	E3	CVIANAM1926AV	1	*	
	└IC171	943243102840S	I.C,SUBCPU(AVR-X4100WE2)	E2	CVIANAM1937AV	1	*	
	└IC171	943243102850S	I.C,SUBCPU(AVR-X4100WK)	JP	CVIANAM1942AV	1	*	
	IC191	00D2623448908	I.C,3STATEQUADBUFFER		CVITC74VHC125FT	1		
	IC201	00D2623077900	I.C,HEXINVERTER		HVITC74VHCU04FT	1		
	IC202	943236101350D	I.C,DIR/DIT(WITHADC,LQFP-48P)		CVIPCM9211PTR	1		
	IC203,204	943236101520D	I.C,DIR(SSOP-16)		CVILC89091JA-H	2		
	IC221	-	IC,PLD(FBGA,256P)		CVI5M570ZF256C5N	1	*	
	└IC221	943236101860S	I.C,APLD(AVR-X4100WE3/E2/K/E1C)		CVIANAM1932AV	1	*	
	IC223	236810083506S	I.C,CLOCKJITTER		CVICS210010-CZZR	1		
	IC251	943245100540S	I.C,DSP(LQFP-176P/400M)		CVIADSP214874B72	1	*	
	IC252	943246101060S	I.C,SDRAM(256M,TSOP-54P)		CVIA3V56S40GTP-6	1	*	
	IC254	-	I.C,SERIALFLASH(16M)		CVIMX25L1606EM2I	1		
	└IC254	943248102890S	I.C,DSP1(AVR-X4100WE3/E2/K/E1C)		CVIANAM1928AV	1	*	
	IC261	943245100550S	I.C,DSP(LQFP-176P/400M)		CVIADSP214874B72	1	*	
	IC262	943246101060S	I.C,SDRAM(256M,TSOP-54P)		CVIA3V56S40GTP-6	1	*	
	IC264	-	I.C,SERIALFLASH(16M)		CVIMX25L1606EM2I	1		
	└IC264	943248102900S	I.C,DSP2(AVR-X4100WE3/E2/K/E1C)		CVIANAM1929AV	1	*	
	IC271	943245100560S	I.C,DSP(LQFP-176P/400M)		CVIADSP214874B72	1	*	
	IC272	943246101060S	I.C,SDRAM(256M,TSOP-54P)		CVIA3V56S40GTP-6	1	*	
	IC273	-	I.C,SERIALFLASH(16M)		CVIMX25L1606EM2I	1		
	└IC273	943248102910S	I.C,DSP3(AVR-X4100WE3/E2/K/E1C)		CVIANAM1930AV	1	*	
	IC281	943245100570S	I.C,DSP(LQFP-176P/400M)		CVIADSP214874B72	1	*	
	IC282	943246101060S	I.C,SDRAM(256M,TSOP-54P)		CVIA3V56S40GTP-6	1	*	
	IC283	-	I.C,SERIALFLASH(16M)		CVIMX25L1606EM2I	1		
	└IC283	943248102920S	I.C,DSP4(AVR-X4100WE3/E2/K/E1C)		CVIANAM1931AV	1	*	
	IC306	236810086505S	I.C,ADC(96kHz24-Bit)		CVIAK5358BET	1		
	IC321,322	943239100690S	I.C,2CHDAC(32BIT,384KHZ,TSSOP-20P)		CVIPCM5100PWR	2		
	IC323	943239010400S	I.C,REGULATOR(3.3V/TO-252)		CVINJM2845DL133	1		
	IC351	963236101220D	I.C,HDMIRX		CVIADV7850KBCZ-5	1		
	IC381	23681015960AS	I.C,HDMI2.0TX+SCALER/ES5		CVIMN8647771	1		
	IC391	23681015960AS	I.C,HDMI2.0TX+SCALER/ES5		CVIMN8647771	1		
	IC392	943239101510S	I.C,MUX/DEMUX(TSSOP-16P)		CVISN74CBT3251PV	1		
	IC401	23681016160AS	I.C,VSP(ADV8003KBCZ-8B)		CVIAD55/058Z-0	1		
	IC402,403	24681020160AS	I.C,DDR2SDRAM(512Mbits,84-ballFBGA)		CVIA3R12E40CBF-8	2		
	IC404	-	I.C,SERIALFLASH(128M,SOP-16)		CVIMX25L12845EMI	1		
	└IC404	943248102930S	I.C,OSDFLASH(AVR-X4100WBKE3)	E3	CVIANAM1927AV	1	*	
	└IC404	943248102940S	I.C,OSDFLASH(AVR-X4100WE2)	E2	CVIANAM1938AV	1	*	
	└IC404	943248102950S	I.C,OSDFLASH(AVR-X4100WK)	JP	CVIANAM1943AV	1	*	
	IC421	-	I.C,PLD(FBGA,256P,MAXII)		CVIEPM570F256C4N	1		
	└IC421	943236101870S	I.C,VPLD(AVR-X4100WE3/E2/K/E1C)		CVIANAM1933AV	1	*	
	IC431	23681015960AS	I.C,HDMI2.0TX+SCALER/ES5		CVIMN8647771	1		
	IC502	23671011050AS	I.C,IPODAUTHENTICATIONFROMD&M		CVI23671011050AS	1		
	Q1001	943239101550S	FET,SSM6N15AFU,N-CH,SC-88,TOSHIBA		CVTSSM6N15AFU	1	*	
	Q1101-1103	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	3		
	Q1105	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q1106	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q1107	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q1111-1113	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	3		
	Q1115	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q1116	943212500220D	T.R,2SA2166,PNP,TO-236,ISAHAYA		CVT2SA2166	1		
	Q1117	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q1118	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q1119	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q1121	943212500220D	T.R,2SA2166,PNP,TO-236,ISAHAYA		CVT2SA2166	1		
	Q1122	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q1123	00D2710326904	T.R,2SA1954		CVT2SA1954	1		
	Q1124	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q1125	943212500220D	T.R,2SA2166,PNP,TO-236,ISAHAYA		CVT2SA2166	1		
	Q1126	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q1127	943212500220D	T.R,2SA2166,PNP,TO-236,ISAHAYA		CVT2SA2166	1		
	Q1128	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q1131	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q1701,1702	943214500020S	T.R,2SC3052		CVT2SC3052	2		
	Q1703	943214500030S	T.R,MUTE		CVTINC2001AC1	1		
	Q1704	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q1706	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q1901	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q1902,1903	943214500020S	T.R,2SC3052		CVT2SC3052	2		
	Q1909	963212500030S	T.R,ISA1530AC1		CVTISA1530AC1	1		
	Q1910,1911	943214500020S	T.R,2SC3052		CVT2SC3052	2		
	Q1912	963212500030S	T.R,ISA1530AC1		CVTISA1530AC1	1		
	Q1913-1917	943214500020S	T.R,2SC3052		CVT2SC3052	5		
	Q2001	213850009503S	T.R,2SC4617EBTLR(NPN,SOT-416,SMALLSIGNAL,ROHM		CVT2SC4617EBTLR	1		
	Q2002,2003	963216500060S	T.R,RT1N144C(10K-47K)		CVTRT1N144C	2		
	Q3841,3842	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q3851,3852	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q3861,3862	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q3871,3872	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	Q3941,3942	9432165000020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q3951,3952	9432165000020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q3961,3962	9432165000020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q3971-3973	9432165000050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	3		
	RESISTOR GROUP							
	R1009	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R1011	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R1111	nsp	RES,CHIP(1608/5%/10ohm)		CRJ10DJ100T	1		
	R1112	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R1113	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1114	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R1115	nsp	RES,CHIP(1608/1%/169Kohm)		CRJ10DF1693T	1		
	R1116	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R1120	nsp	RES,CHIP(1608/5%/10ohm)		CRJ10DJ100T	1		
	R1122	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R1123	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1124	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R1125	nsp	RES,CHIP(1608/1%/76.8Kohm)		CRJ10DF7682T	1		
	R1126	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R1131	nsp	RES,CHIP(1608/5%/82Kohm)		CRJ10DJ823T	1		
	R1133	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1134	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R1135	nsp	RES,CHIP(1608/1%/76.8Kohm)		CRJ10DF7682T	1		
	R1136	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R1143	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1144	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R1145	nsp	RES,CHIP(1608/1%/169Kohm)		CRJ10DF1693T	1		
	R1146	nsp	RES,CHIP(1608/1%/2Kohm)		CRJ10DF2001T	1		
	R1147	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R1151	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R1153	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1154,1155	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	2		
	R1161	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R1163	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1164	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R1165	nsp	RES,CHIP(1608/1%/160Kohm)		CRJ10DF1603T	1		
	R1166	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R1171	nsp	RES,CHIP(1608/5%/10ohm)		CRJ10DJ100T	1		
	R1172	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R1173	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1174	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R1175	nsp	RES,CHIP(1608/1%/412Kohm)		CRJ10DF4123T	1		
	R1176	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R1181	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R1183	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1184	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R1185	nsp	RES,CHIP(1608/1%/300Kohm)		CRJ10DF3003T	1		
	R1186	nsp	RES,CHIP(1608/1%/39Kohm)		CRJ10DF3902T	1		
	R1191	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R1193	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1194	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R1195	nsp	RES,CHIP(1608/1%/300Kohm)		CRJ10DF3003T	1		
	R1196	nsp	RES,CHIP(1608/1%/39Kohm)		CRJ10DF3902T	1		
	R1201	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R1203	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1204	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R1205	nsp	RES,CHIP(1608/1%/300Kohm)		CRJ10DF3003T	1		
	R1206	nsp	RES,CHIP(1608/1%/39Kohm)		CRJ10DF3902T	1		
	R1207,1208	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R1212-1217	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	6		
	R1220-1222	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
	R1223	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R1224-1226	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
	R1227	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R1228	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R1229	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R1230	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R1231	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R1232	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R1233	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R1234	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R1236,1237	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R1238	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R1239	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R1240	nsp	RES,CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R1241	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R1247	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R1248	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R1250	nsp	RES,CHIP(1608/5%/10ohm)		CRJ10DJ100T	1		
	R1251	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R1252	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
	R1253	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R1254	nsp	RES,CHIP(1608/1%/412Kohm)		CRJ10DF4123T	1		
	R1255	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R1256	nsp	RES,CHIP(1005/5%/330ohm)		CRJ06IJ331T	1		
	R1501	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R1504	nsp	RES,CHIP(1005/5%/470Kohm)		CRJ06IJ474T	1		
	R1506	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R1507-1509	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R1510	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R1512	nsp	RES,CHIP(1608/5%/680ohm)		CRJ10DJ681T	1		
	R1513	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R1514,1515	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R1519,1520	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R1521	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R1522	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R1523-1527	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	5		
	R1528,1529	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R1530	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R1531-1536	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	6		
	R1538	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R1539	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R1540	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R1542-1544	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R1547	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R1551-1554	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R1560	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R1562-1565	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
	R1569,1570	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R1571-1573	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	3		
	R1575,1576	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R1585-1588	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	4		
	R1589	nsp	RES,CHIP(1608/5%/0ohm)	E3	CRJ10DJ0R0T	1		
	R1589	nsp	RES,CHIP(1608/5%/22ohm)	JP	CRJ10DJ220T	1		
	R1590	nsp	RES,CHIP(1608/5%/0ohm)	E2	CRJ10DJ0R0T	1		
	R1590	nsp	RES,CHIP(1608/5%/10ohm)	JP	CRJ10DJ100T	1		
	R1701	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R1702,1703	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R1705	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R1706-1713	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	8		
	R1714	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R1715-1718	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
	R1719	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R1720-1727	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	8		
	R1728	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R1729-1732	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
	R1734	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R1735	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R1736,1737	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R1743	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R1745	nsp	RES,CHIP(1005/5%/470Kohm)		CRJ06IJ474T	1		
	R1746	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R1748,1749	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R1751	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R1752	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R1753	nsp	RES,CHIP(1005/5%/2.2Mohm)		CRJ06IJ225T	1		
	R1754	nsp	RES,CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R1755	nsp	RES,CHIP(1005/5%/220Kohm)		CRJ06IJ224T	1		
	R1756	nsp	RES,CHIP(1005/5%/27Kohm)		CRJ06IJ273T	1		
	R1757	nsp	RES,CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R1758	nsp	RES,CHIP(1005/5%/1.2Kohm)		CRJ06IJ122T	1		
	R1759	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R1760	nsp	RES,CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R1763-1767	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	5		
	R1769	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R1901	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R1902,1903	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R1904	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R1905	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R1906	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R1907	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R1908	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R1910	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R1911	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R1912	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R1913	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R1918	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R1919	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R1923	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R1924	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R1930	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R1931	nsp	RES,CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R1932	nsp	RES,CHIP(1005/5%/33Kohm)		CRJ06IJ333T	1		
	R1933	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R1934	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R1935	nsp	RES,CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R1936	nsp	RES,CHIP(1005/5%/15Kohm)		CRJ06IJ153T	1		
	R1937	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R1938	nsp	RES,CHIP(1005/5%/470Kohm)		CRJ06IJ474T	1		
	R1939	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R1940	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R1942	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R1943	nsp	RES,CHIP(1005/5%/470Kohm)		CRJ06IJ474T	1		
	R1944	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R1945	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R1947	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R1949	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R2001-2004	nsp	RES,CHIP(1005/5%/150ohm)		CRJ06IJ151T	4		
	R2005,2006	nsp	RES,CHIP(1005/5%/470ohm)		CRJ06IJ471T	2		
	R2011	nsp	RES,CHIP(1005/5%/330Kohm)		CRJ06IJ334T	1		
	R2012,2013	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	2		
	R2014	nsp	RES,CHIP(1005/5%/330Kohm)		CRJ06IJ334T	1		
	R2019-2022	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
	R2023	nsp	RES,CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R2024	nsp	RES,CHIP(1005/5%/68ohm)		CRJ06IJ680T	1		
	R2025	nsp	RES,CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	1		
	R2026	nsp	RES,CHIP(1005/5%/220ohm)		CRJ06IJ221T	1		
	R2027	nsp	RES,CHIP(1005/5%/3.9Kohm)		CRJ06IJ392T	1		
	R2028	nsp	RES,CHIP(1005/5%/2.2Kohm)		CRJ06IJ222T	1		
	R2029,2030	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R2031	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R2032	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2033-2037	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	5		
	R2038	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2039	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R2040,2041	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R2042	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2043-2045	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	3		
	R2046	nsp	RES,CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R2047	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2048	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2049	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R2050	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R2051	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R2052	nsp	RES,CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R2053	nsp	RES,CHIP(1608/5%/680ohm)		CRJ10DJ681T	1		
	R2054,2055	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R2201	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R2202-2206	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	5		
	R2208-2250	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	43		
	R2251-2253	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R2254-2257	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	4		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R2260-2264	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	5		
	R2266-2277	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	12		
	R2501	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2504	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R2505	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R2506	nsp	RES,CHIP(1608/5%/1.8Kohm)		CRJ10DJ182T	1		
	R2507-2509	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R2510,2511	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R2512	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2514	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2516-2518	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
	R2519-2522	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	4		
	R2523,2524	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R2525	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2529	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2530-2539	nsp	RES,CHIP(1005/5%/82ohm)		CRJ06IJ820T	10		
	R2540	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2541	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2542	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2543	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2544,2545	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R2546	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2547	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2549	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R2550	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2552,2553	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	2		
	R2555,2556	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	2		
	R2558	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R2559	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2560	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R2561	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2562	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R2563-2571	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	9		
	R2576	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2577	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2578,2579	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R2601-2603	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	3		
	R2604	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R2605	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2606	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R2607	nsp	RES,CHIP(1608/5%/1.8Kohm)		CRJ10DJ182T	1		
	R2609-2611	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R2612,2613	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R2614	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2616	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2618-2620	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
	R2621-2624	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	4		
	R2625,2626	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R2627	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2629	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2630	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2631	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2633-2640	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	8		
	R2641	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2642	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2643	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2644,2645	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R2646	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2647	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2649	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R2651	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2653-2656	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	4		
	R2658	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R2659	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2660	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R2661	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2666	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2667	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2668	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R2669-2671	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
	R2676-2681	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	6		
	R2701	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R2702-2704	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	3		
	R2705	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2706	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2707	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R2708	nsp	RES,CHIP(1608/5%/1.8Kohm)		CRJ10DJ182T	1		
	R2709-2712	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
	R2713,2714	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R2715	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2717,2718	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R2719	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2721	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2723-2725	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
	R2726-2729	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	4		
	R2730	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2732	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2733-2740	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	8		
	R2741	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2742	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2743	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2744	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2745	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2746,2747	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R2748	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2749	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2750	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R2752	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2754-2757	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	4		
	R2759	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R2760	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2761	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R2801	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R2802-2804	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	3		
	R2805	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2807	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R2808	nsp	RES,CHIP(1608/5%/1.8Kohm)		CRJ10DJ182T	1		
	R2809-2812	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
	R2813,2814	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R2815	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2817,2818	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R2819	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2821	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2823-2825	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
	R2826-2829	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	4		
	R2830	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2832	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2833-2842	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	10		
	R2843	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2844	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2845	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2846,2847	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R2848	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R2849,2850	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R2852	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R2854-2857	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	4		
	R2858	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R2860	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R2861	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R2862	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R3087	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R3088	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R3089,3090	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R3093,3094	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R3201,3202	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R3203,3204	nsp	RES,CHIP(1005/5%/470ohm)		CRJ06IJ471T	2		
	R3205-3207	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
	R3208,3209	nsp	RES,CHIP(1005/5%/470ohm)		CRJ06IJ471T	2		
	R3210	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3501	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R3502	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R3504	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3507	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3510	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3513	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3515-3517	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	3		
	R3518	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R3519	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R3520	nsp	RES,CHIP(1608/5%/150ohm)		CRJ10DJ151T	1		
	R3521	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R3522	nsp	RES,CHIP(1608/5%/150ohm)		CRJ10DJ151T	1		
	R3523	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R3524	nsp	RES,CHIP(1608/5%/150ohm)		CRJ10DJ151T	1		
	R3525	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R3526	nsp	RES,CHIP(1608/5%/150ohm)		CRJ10DJ151T	1		
	R3527-3530	nsp	RES,CHIP(1608/5%/330ohm)		CRJ10DJ331T	4		
	R3531	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3532,3533	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	2		
	R3534,3535	nsp	RES,CHIP(1005/5%/2.2Kohm)		CRJ06IJ222T	2		
	R3537	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R3538	nsp	RES,CHIP(1005/5%/2Kohm)		CRJ06IJ202T	1		
	R3539-3544	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	6		
	R3547	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3548	nsp	RES,CHIP(1608/1%/470ohm)		CRJ10DF4700T	1		
	R3801,3802	nsp	RES,CHIP(1608/1%/510ohm)		CRJ10DF5100T	2		
	R3803-3807	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	5		
	R3808	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R3809,3810	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R3811	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R3812	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3813,3814	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	2		
	R3815	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R3816	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R3817,3818	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R3820	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R3821	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R3822	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R3827-3830	nsp	RES,CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	4		
	R3832	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R3841	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R3842	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3843,3844	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	2		
	R3845	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R3846	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R3847,3848	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
	R3851	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R3852	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3853,3854	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	2		
	R3855	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R3856	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R3857,3858	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
	R3861	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R3862	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3863,3864	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	2		
	R3865	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R3866	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R3867,3868	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
	R3871	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R3872	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3873,3874	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	2		
	R3875	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R3876	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R3877,3878	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
	R3901,3902	nsp	RES,CHIP(1608/1%/510ohm)		CRJ10DF5100T	2		
	R3903-3906	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	4		
	R3907	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R3908	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R3909	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R3910-3912	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
	R3913-3915	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	3		
	R3916	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R3917	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R3921	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R3922	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R3923	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R3927-3930	nsp	RES,CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	4		
	R3932	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R3941	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R3942	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3943,3944	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	2		
	R3945	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R3946	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R3947,3948	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
	R3951	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R3952	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3953,3954	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	2		
	R3955	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R3956	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R3957,3958	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
	R3961	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R3962	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3963,3964	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	2		
	R3965	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R3966	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R3967,3968	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
	R3971	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R3978	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R3979	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R3981	nsp	RES,CHIP(1005/5%/2.2Kohm)		CRJ06IJ222T	1		
	R3982	nsp	RES,CHIP(1005/5%/8.2Kohm)		CRJ06IJ822T	1		
	R3983-3985	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	3		
	R4001-4027	nsp	RES,CHIP(1005/5%/22ohm)		CRJ06IJ220T	27		
	R4028	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R4029,4030	nsp	RES,CHIP(1005/1%/1Kohm)		CRJ06IF1001T	2		
	R4031	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R4032	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R4034	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R4035,4036	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R4037,4038	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R4040	nsp	RES,CHIP(1005/5%/39ohm)		CRJ06IJ390T	1		
	R4041-4044	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
	R4045	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R4047	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R4049	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R4050-4053	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	4		
	R4068	nsp	RES,CHIP(1608/1%/180ohm)		CRJ10DF1800T	1		
	R4069	nsp	RES,CHIP(1608/1%/2.7Kohm)		CRJ10DF2701T	1		
	R4070	nsp	RES,CHIP(1608/1%/180ohm)		CRJ10DF1800T	1		
	R4071	nsp	RES,CHIP(1608/1%/2.7Kohm)		CRJ10DF2701T	1		
	R4074,4075	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R4076-4082	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	7		
	R4084,4085	nsp	RES,CHIP(1005/1%/1Kohm)		CRJ06IF1001T	2		
	R4087	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R4089	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R4090	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R4201-4217	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	17		
	R4218-4220	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	3		
	R4221	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R4222	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R4223	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R4224-4226	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	3		
	R4227-4229	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R4230-4232	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	3		
	R4233	nsp	RES,CHIP(1005/5%/39ohm)		CRJ06IJ390T	1		
	R4234-4240	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	7		
	R4242,4243	nsp	RES,CHIP(1005/5%/39ohm)		CRJ06IJ390T	2		
	R4244	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R4245	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R4246	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R4247	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R4248	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R4301,4302	nsp	RES,CHIP(1608/1%/510ohm)		CRJ10DF5100T	2		
	R4303	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R4308,4309	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R4310,4311	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R4312	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R4313-4315	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	3		
	R4316-4321	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	6		
	R4322	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R4323	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R4324	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R4326	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R4327	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R4328	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R4330-4333	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	4		
	R4334	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R4336	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R4337,4338	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
	R4339-4342	nsp	RES,CHIP(1005/5%/0ohm*2)		CRJ062IJ0R0T	4		
	R4351-4353	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R4354,4355	nsp	RES,CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	2		
	R4356	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R4357,4358	nsp	RES,CHIP(1608/1%/51ohm)		CRJ10DF51R0T	2		
	R4361-4363	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R4364,4365	nsp	RES,CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	2		
	R4366	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R4367	nsp	RES,CHIP(1608/5%/330ohm)		CRJ10DJ331T	1		
	R4384,4385	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	2		
	R4394	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R5001-5003	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R5004	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R5005	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R5006	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R5007	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R5008	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R5009	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R5010,5011	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	2		
	R5012,5013	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R5016	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R5017-5019	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R5023	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R5025	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R5027	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R5029	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R5031	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R5033	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R5035	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R5037	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R5039	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R5051-5053	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R5055	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R5056	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R5063	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R5064-5068	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	5		
	R5076	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R5077	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R5082,5083	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R5095-5098	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	4		
	R5100	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	RN151	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN201	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN204,205	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	2		
	RN221	nsp	RES,CHIP(1005/5%/100ohm*4)		CRJ064IJ101T	1		
	RN251-255	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	5		
	RN256,257	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T	2		
	RN258-263	nsp	RES,CHIP(1005/5%/10ohm*4)		CRJ064IJ100T	6		
	RN264	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN266-268	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	3		
	RN270	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T	1		
	RN272-275	nsp	RES,CHIP(1005/5%/10ohm*4)		CRJ064IJ100T	4		
	RN276-280	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	5		
	RN281	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T	1		
	RN283-286	nsp	RES,CHIP(1005/5%/10ohm*4)		CRJ064IJ100T	4		
	RN287	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN288,289	nsp	RES,CHIP(1005/5%/10ohm*4)		CRJ064IJ100T	2		
	RN290-295	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	6		
	RN296	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T	1		
	RN298-301	nsp	RES,CHIP(1005/5%/10ohm*4)		CRJ064IJ100T	4		
	RN302	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN351-354	nsp	RES,CHIP(1005/5%/4.7Kohm*4)		CRJ064IJ472T	4		
	RN391-393	nsp	RES,CHIP(1005/5%/0ohm*2)		CRJ062IJ0R0T	3		
	RN401-415	nsp	RES,CHIP(1005/5%/47ohm*4)		CRJ064IJ470T	15		
	RN421	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN423,424	nsp	RES,CHIP(1005/5%/47ohm*4)		CRJ064IJ470T	2		
	RN431-436	nsp	RES,CHIP(1005/5%/47ohm*4)		CRJ064IJ470T	6		
	RN437	nsp	RES,CHIP(1005/5%/10ohm*4)		CRJ064IJ100T	1		
	RN438	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN439-444	nsp	RES,CHIP(1005/5%/100ohm*4)		CRJ064IJ101T	6		
	CAPACIITORS GROUP							
	C1005	nsp	CAP,CHIP(1005,16V/0.1uF,X7R) SAMSUNG		CCUI1C104KCS	1		
	C1007-1012	nsp	CAP,CHIP(1005,16V/0.1uF,X7R) SAMSUNG		CCUI1C104KCS	6		
	C1023-1026	nsp	CAP,CHIP(1005,16V/0.1uF,X7R) SAMSUNG		CCUI1C104KCS	4		
	C1031-1040	nsp	CAP,CHIP(1005,50V/1000pF,X7R) SAMSUNG		CCUI1H102KCS	10		
	C1051	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
	C1053	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
	C1111	nsp	CAP,CHIP(1005,16V/0.1uF,X7R) SAMSUNG		CCUI1C104KCS	1		
	C1112	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C1113	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S) SAMSUNG		CCUS1A105KCS	1		
	C1114	nsp	CAP,CHIP(1608,50V/5pF,C0G) SAMSUNG		CCUS1H050CAS	1		
	C1115	nsp	CAP,CHIP(2012,6.3V/22uF,X5R) SAMSUNG		CCUC0J226KCS	1		
	C1116	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C1119	nsp	CAP,CHIP(2012,50V/0.1uF,X7R) SAMSUNG		CCUC1H104KCS	1		
	C1121	nsp	CAP,CHIP(1005,16V/0.1uF,X7R) SAMSUNG		CCUI1C104KCS	1		
	C1122	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C1123	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S) SAMSUNG		CCUS1A105KCS	1		
	C1124	nsp	CAP,CHIP(1608,50V/3.3pF,C0G) SAMSUNG		CCUS1H3R3JAS	1		
	C1125	nsp	CAP,CHIP(2012,6.3V/22uF,X5R) SAMSUNG		CCUC0J226KCS	1		
	C1126	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C1129	nsp	CAP,CHIP(2012,50V/0.1uF,X7R) SAMSUNG		CCUC1H104KCS	1		
	C1131	nsp	CAP,CHIP(1005,16V/0.1uF,X7R) SAMSUNG		CCUI1C104KCS	1		
	C1132	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C1133	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S) SAMSUNG		CCUS1A105KCS	1		
	C1134	nsp	CAP,CHIP(1608,50V/3.3pF,C0G) SAMSUNG		CCUS1H3R3JAS	1		
	C1135	nsp	CAP,CHIP(2012,6.3V/22uF,X5R) SAMSUNG		CCUC0J226KCS	1		
	C1136	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C1139	nsp	CAP,CHIP(2012,50V/0.1uF,X7R) SAMSUNG		CCUC1H104KCS	1		
	C1141	nsp	CAP,CHIP(1005,16V/0.1uF,X7R) SAMSUNG		CCUI1C104KCS	1		
	C1142	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C1143	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S) SAMSUNG		CCUS1A105KCS	1		
	C1144	nsp	CAP,CHIP(1608,50V/10pF,C0G) SAMSUNG		CCUS1H100JAS	1		
	C1145	nsp	CAP,CHIP(2012,6.3V/22uF,X5R) SAMSUNG		CCUC0J226KCS	1		
	C1146	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C1149	nsp	CAP,CHIP(2012,50V/0.1uF,X7R) SAMSUNG		CCUC1H104KCS	1		
	C1151	nsp	CAP,CHIP(1005,16V/0.1uF,X7R) SAMSUNG		CCUI1C104KCS	1		
	C1152	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C1153	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S) SAMSUNG		CCUS1A105KCS	1		
	C1154	nsp	CAP,CHIP(1608,50V/5pF,C0G) SAMSUNG		CCUS1H050CAS	1		
	C1155	nsp	CAP,CHIP(2012,6.3V/22uF,X5R) SAMSUNG		CCUC0J226KCS	1		
	C1156	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C1159	nsp	CAP,CHIP(2012,50V/0.1uF,X7R) SAMSUNG		CCUC1H104KCS	1		
	C1161	nsp	CAP,CHIP(1005,16V/0.1uF,X7R) SAMSUNG		CCUI1C104KCS	1		
	C1162	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C1163	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S) SAMSUNG		CCUS1A105KCS	1		
	C1164	nsp	CAP,CHIP(1608,50V/5pF,C0G) SAMSUNG		CCUS1H050CAS	1		
	C1165	nsp	CAP,CHIP(2012,6.3V/22uF,X5R) SAMSUNG		CCUC0J226KCS	1		
	C1166	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C1169	nsp	CAP,CHIP(2012,50V/0.1uF,X7R) SAMSUNG		CCUC1H104KCS	1		
	C1171	nsp	CAP,CHIP(1005,16V/0.1uF,X7R) SAMSUNG		CCUI1C104KCS	1		
	C1172	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C1173	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S) SAMSUNG		CCUS1A105KCS	1		
	C1174	nsp	CAP,CHIP(1608,50V/5pF,C0G) SAMSUNG		CCUS1H050CAS	1		
	C1175	nsp	CAP,CHIP(2012,6.3V/22uF,X5R) SAMSUNG		CCUC0J226KCS	1		
	C1176	nsp	CAP,CHIP(2012,6.3V/10uF,X5R) SAMSUNG		CCUC0J106KCS	1		
	C1179	nsp	CAP,CHIP(2012,50V/0.1uF,X7R) SAMSUNG		CCUC1H104KCS	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C1181	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C1182	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C1183	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C1184	nsp	CAP,CHIP(1608,50V/5pF,C0G)_SAMSUNG		CCUS1H050CAS	1		
	C1185	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C1186	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C1189	nsp	CAP,CHIP(2012,50V/0.1uF,X7R)_SAMSUNG		CCUC1H104KCS	1		
	C1191	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C1192	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C1193	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C1194	nsp	CAP,CHIP(1608,50V/5pF,C0G)_SAMSUNG		CCUS1H050CAS	1		
	C1195	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C1196	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C1199	nsp	CAP,CHIP(2012,50V/0.1uF,X7R)_SAMSUNG		CCUC1H104KCS	1		
	C1201	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C1202	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C1203	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C1204	nsp	CAP,CHIP(1608,50V/5pF,C0G)_SAMSUNG		CCUS1H050CAS	1		
	C1205	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C1206	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C1209	nsp	CAP,CHIP(2012,50V/0.1uF,X7R)_SAMSUNG		CCUC1H104KCS	1		
	C1211-1213	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C1214-1218	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	5		
	C1219-1221	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C1224	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C1225	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C1226	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C1228	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C1229	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C1230	nsp	CAP,ALUMINUMELECTROLYTIC(16V/10uF)		CCEC1CMVG100T	1		
	C1231	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C1232	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C1233	nsp	CAP,ALUMINUMELECTROLYTICCAPACITORS(16V/100uF)		CCEC1CMVG101T	1		
	C1235-1238	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	4		
	C1241	nsp	CAP,ALUMINUMELECTROLYTIC(16V/470uF)		CCEC1CMVG471T	1		
	C1243	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C1245	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C1246	nsp	CAP,ALUMINUMELECTROLYTIC(16V/470uF)		CCEC1CMVG471T	1		
	C1251	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C1252	nsp	CAP,CHIP(1005,25V/0.015uF,X7R)_SAMSUNG		CCUI1E153KCS	1		
	C1253	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C1254,1255	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C1258	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C1305,1306	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C1307	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C1308	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C1309	nsp	CAP,CHIP(1608,50V/5pF,C0G)_SAMSUNG		CCUS1H050CAS	1		
	C1310	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C1311	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C1314	nsp	CAP,CHIP(2012,50V/0.1uF,X7R)_SAMSUNG		CCUC1H104KCS	1		
	C1501,1502	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C1503,1504	nsp	CAP,CHIP(1608,50V/10pF,C0G)_SAMSUNG		CCUS1H100JAS	2		
	C1505-1516	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	12		
	C1701,1702	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C1703	nsp	CAP,CHIP(1608,50V/7pF,C0G)_SAMSUNG		CCUS1H070DAS	1		
	C1704	nsp	CAP,CHIP(1608,50V/8pF,C0G)_SAMSUNG		CCUS1H080DAS	1		
	C1707	9431321005205	CAP,CHIP(1608,10V/0.47uF,X7R,X7S)_SAMSUNG		CCUS1A474KCS	1	*	
	C1714	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C1716,1717	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C1721	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C1722	nsp	CAP,CHIP(1005,50V/220pF,C0G)_SAMSUNG		CCUI1H221JAS	1		
	C1723	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C1725,1726	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	2		
	C1901	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C1902,1903	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	2		
	C1908-1914	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	7		
	C2003,2004	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	2		
	C2005-2008	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	4		
	C2009,2010	nsp	CAP,CHIP(1005,50V/33pF,C0G)_SAMSUNG		CCUI1H330JAS	2		
	C2011	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C2014	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2015	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C2016,2017	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C2018	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C2019	nsp	CAP,CHIP(1608,50V/15pF,C0G)_SAMSUNG		CCUS1H150JAS	1		
	C2020	nsp	CAP,CHIP(1608,50V/12pF,C0G)_SAMSUNG		CCUS1H120JAS	1		
	C2021	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2023	nsp	CAP,CHIP(2012,50V/4700pF,MURATAGRM21)		CCUMUC1H472JAM	1		
	C2024	nsp	CAP,CHIP(3216,50V/0.068uF,MURATAGRM31)		CCUMUP1H683JAM	1		
	C2030,2031	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C2032	nsp	CAP,CHIP(1005,25V/0.022uF,X7R)_SAMSUNG		CCUI1E223KCS	1		
	C2033,2034	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C2035	nsp	CAP,CHIP(1005,25V/0.022uF,X7R)_SAMSUNG		CCUI1E223KCS	1		
	C2205-2224	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	20		
	C2225	nsp	CAP,CHIP(1005,50V/100pF,C0G)_SAMSUNG		CCUI1H101JAS	1		
	C2227	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2228	nsp	CAP,ALUMINUMELECTROLYTICCAPACITORS(16V/100uF)		CCEC1CMVG101T	1		
	C2443	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2502,2503	nsp	CAP,CHIP(1608,50V/18pF,C0G)_SAMSUNG		CCUS1H180JAS	2		
	C2505-2507	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C2508-2542	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	35		
	C2544-2549	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	6		
	C2554-2592	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	39		
	C2593	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2594,2595	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C2596	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2597	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2598	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2599	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2602-2609	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	8		
	C2610,2611	nsp	CAP,CHIP(1608,50V/18pF,C0G)_SAMSUNG		CCUS1H180JAS	2		
	C2612	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2614-2644	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	31		
	C2645	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2646,2647	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C2648	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C2649	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2650	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2651	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2652,2653	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	2		
	C2654	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2655	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2656	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2657	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2658	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2659-2699	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	41		
	C2702-2709	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	8		
	C2710,2711	nsp	CAP,CHIP(1608,50V/18pF,C0G)_SAMSUNG		CCUS1H180JAS	2		
	C2712	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2714-2744	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	31		
	C2745	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2746,2747	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C2748	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2749	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2750	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2751	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2752,2753	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	2		
	C2754	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2755	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2756	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2757	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2758	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2759-2799	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	41		
	C2801,2802	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	2		
	C2803	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2804	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2805	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2806	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2807-2809	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C2810	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2812-2819	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	8		
	C2820,2821	nsp	CAP,CHIP(1608,50V/18pF,C0G)_SAMSUNG		CCUS1H180JAS	2		
	C2822	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2824-2854	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	31		
	C2855	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2856,2857	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C2858	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2859	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2860	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2861	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2862,2863	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	2		
	C2864	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2865	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2866	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2867	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C2868	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C2869-2909	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	41		
	C3045,3046	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C3047,3048	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	2		
	C3049,3050	nsp	CAP,ALUMINUMELECTROLYTIC(16V/10uF)		CCEC1CMVG100T	2		
	C3051	nsp	CAP,CHIP(1608,50V/4700pF,X7R)_SAMSUNG		CCUS1H472KCS	1		
	C3053	nsp	CAP,CHIP(1608,50V/4700pF,X7R)_SAMSUNG		CCUS1H472KCS	1		
	C3054	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C3055,3056	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C3057,3058	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	2		
	C3061-3064	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	4		
	C3066-3074	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	9		
	C3076	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C3201,3202	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C3203	nsp	CAP,CHIP(1608,6.3V/2.2uF,X7R)_SAMSUNG		CCUS0J225KCS	1		
	C3204	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3205	nsp	CAP,CHIP(1608,6.3V/2.2uF,X7R)_SAMSUNG		CCUS0J225KCS	1		
	C3206	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3207	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C3208,3209	nsp	CAP,CHIP(1005,50V/2200pF,X7R)_SAMSUNG		CCUI1H222KCS	2		
	C3210,3211	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C3212	nsp	CAP,CHIP(1608,6.3V/2.2uF,X7R)_SAMSUNG		CCUS0J225KCS	1		
	C3213	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3214	nsp	CAP,CHIP(1608,6.3V/2.2uF,X7R)_SAMSUNG		CCUS0J225KCS	1		
	C3215	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3216	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C3217,3218	nsp	CAP,CHIP(1005,50V/2200pF,X7R)_SAMSUNG		CCUI1H222KCS	2		
	C3220	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3221	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C3222	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3223	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C3224	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3225	943134503060S	CAP,SMDELECT(16V/22uF)		CCEC1CMVG220T	1	*	
	C3501	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3504	nsp	CAP,CHIP(1608,50V/15pF,C0G)_SAMSUNG		CCUS1H150JAS	1		
	C3505	nsp	CAP,CHIP(1608,50V/18pF,C0G)_SAMSUNG		CCUS1H180JAS	1		
	C3511	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C3513	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3514	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3515	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3516	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3517	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3518	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3519	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3520	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3521	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3522	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3523	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3524	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3525	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3526	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C3528	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3529	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3531	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C3535	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3536	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3537	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C3538	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3539	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3541	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C3545	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3546	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3547	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3548	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3549	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3550	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3551	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3552	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3553	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3554	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3555	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3556	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3557	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3558	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3559	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3560	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3561	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3562	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3563	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3564	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3565	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3566	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3567	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3571	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C3573	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3574,3575	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	2		
	C3576	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3577	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3578	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3579	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3580	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3581	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3582	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3583	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3584	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3585	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3586	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3591	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C3593	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3594	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3595	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3596	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3597	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3598	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3601	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C3605	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3606	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3607	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3611	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C3614	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C3615	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3616	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3617	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3621	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C3622	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3624,3625	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C3626	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3627	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3628	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3629	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3630	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3631	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3632	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3633	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3634,3635	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	2		
	C3636	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3637	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3638	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3639	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3640	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3641	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3642	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3643	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3644	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3645	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3646	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3647	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3651	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C3652	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3654	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3655	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3656	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3657	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3658	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3659	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3660	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3661	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3662	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3663	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3664	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3665	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3666	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3667	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3668	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3669	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3670	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3671	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3672	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3673	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3681	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C3683	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3684	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3685	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C3686	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3687	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3688	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3689	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3690	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3691	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C3692	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3694	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3695	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3696	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3697	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3698	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3699	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3700	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3701	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3702	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3703	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3704	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3705	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3706	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3707	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3708	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3709	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3710	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3711	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3712	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3713	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3714	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3715	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3716	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3717	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3718	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3719	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3720	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3721	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3722	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3723	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3724	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3725	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3726	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3727	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3731	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C3732	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3734	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3735	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C3741-3747	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	7		
	C3748,3749	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	2		
	C3750	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C3751	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3753	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C3754	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3758	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3801-3803	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C3804	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C3805	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3806	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C3807	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3808	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C3809	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3810	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C3811-3835	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	25		
	C3836	nsp	CAP,CHIP(1608,50V/10pF,C0G)_SAMSUNG		CCUS1H100JAS	1		
	C3837	nsp	CAP,CHIP(1608,50V/9pF,C0G)_SAMSUNG		CCUS1H090DAS	1		
	C3838	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C3839-3850	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	12		
	C3851-3854	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	4		
	C3859,3860	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C3865,3866	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C3868,3869	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C3871,3872	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C3881,3882	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C3887,3888	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C3901-3903	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C3904	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C3905	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3906	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C3907	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3908	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C3909	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3910	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C3911-3935	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	25		
	C3936	nsp	CAP,CHIP(1608,50V/8pF,C0G)_SAMSUNG		CCUS1H080DAS	1		
	C3937	nsp	CAP,CHIP(1608,50V/9pF,C0G)_SAMSUNG		CCUS1H090DAS	1		
	C3938	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C3939-3943	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	5		
	C3945-3950	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	6		
	C3951-3954	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	4		
	C3959,3960	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C3965,3966	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C3968,3969	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C3971,3972	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C3981,3982	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C3987	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C3988,3989	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C3990	nsp	CAP,ALUMINUMELECTROLYTIC(16V/10uF)		CCEC1CMVG100T	1		
	C4001	nsp	CAP,CHIP(1608,50V/18pF,C0G)_SAMSUNG		CCUS1H180JAS	1		
	C4002	nsp	CAP,CHIP(1608,50V/15pF,C0G)_SAMSUNG		CCUS1H150JAS	1		
	C4005	nsp	CAP,CHIP(1005,50V/33pF,C0G)_SAMSUNG		CCUI1H330JAS	1		
	C4006	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4009	nsp	CAP,CHIP(1608,16V/0.15uF,X7R,X7S)_SAMSUNG		CCUS1C154KCS	1		
	C4010	nsp	CAP,CHIP(1005,25V/0.012uF,X7R)_SAMSUNG		CCUI1E123KCS	1		
	C4011	nsp	CAP,CHIP(1608,16V/0.15uF,X7R,X7S)_SAMSUNG		CCUS1C154KCS	1		
	C4012	nsp	CAP,CHIP(1005,25V/0.012uF,X7R)_SAMSUNG		CCUI1E123KCS	1		
	C4016	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4017	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C4018,4019	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C4020	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C4021	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4022	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C4023-4039	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	17		
	C4040	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C4043-4059	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	17		
	C4061	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C4063,4064	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C4067,4068	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C4069	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4070	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C4072	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4073	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4074	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4075	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C4078,4079	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C4080	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4081	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4082	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4083	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C4085,4086	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C4087	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4088	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C4090,4091	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C4092	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4093	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4094	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4095	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4096	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4097	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4098	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4099	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4100	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4101	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4102	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4103	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4104	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4105	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4106	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4107	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C4109,4110	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C4111	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4112	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4113	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4114	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4115	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4116	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4117	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4118	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4119	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4120	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4121	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4122	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4123	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4124	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4125	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4126	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4127	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4128	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4129	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4130,4131	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C4133,4134	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C4135	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4136	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4137	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4139	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C4141,4142	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C4143	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4144	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4145	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4147	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C4149	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4150	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4151	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4152	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4153	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4154	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4155	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4156	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4157	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4158	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4159	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C4161	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4162	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4163	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4164,4165	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	2		
	C4167,4168	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C4169	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4170	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C4171	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4172	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4174,4175	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C4176	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4177,4178	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C4180	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4181	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4182	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4183	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C4201-4216	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	16		
	C4219	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	1		
	C4220-4223	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	4		
	C4224	nsp	CAP,ALUMINUMELECTROLYTIC(16V/10uF)		CCEC1CMVG100T	1		
	C4301-4303	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C4304	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C4305	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4306	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C4307	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4308	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C4309	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C4310	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C4311-4335	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	25		
	C4336	nsp	CAP,CHIP(1608,50V/10pF,C0G)_SAMSUNG		CCUS1H100JAS	1		
	C4337	nsp	CAP,CHIP(1608,50V/9pF,C0G)_SAMSUNG		CCUS1H090DAS	1		
	C4338	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C4339-4346	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	8		
	C4353-4361	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	9		
	C4371-4373	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	3		
	C4381-4384	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	4		
	C4396,4397	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C4404,4405	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C4411,4412	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C4417,4418	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C4420,4421	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C4423,4424	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C4425	943134503070S	CAP,SMDELECT(16V/47uF)		CCEC1CMVG470T	1	*	
	C4428,4429	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C5001	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C5002	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C5011,5012	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C5013,5014	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C5021,5022	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C5023,5024	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C5031,5032	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C5033,5034	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C5041,5042	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C5043,5044	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C5101	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C5111	nsp	CAP,CHIP(1005,25V/0.022uF,X7R)_SAMSUNG		CCUI1E223KCS	1		
	OTHER PARTS GROUP							
	BK101-103	nsp	BRACKET,PCB		CMD1A569-V1	3		
	BK104,105	nsp	BRACKET,NETWORKA		CMD1A900	2		
	BN21A	nsp	PINSOCKET(19P,1.25mm,ANGLE,B-TO-B)		CJP19HJ282Z	1		
	BN23A,24	nsp	PINSOCKET(27P,1.25mm,ANGLE,B-TO-B)		CJP27HJ282Z	2		
	BN25A	nsp	PINSOCKET(23P,1.25mm,ANGLE,B-TO-B)		CJP23HJ282Z	1		
	BN26A	nsp	PINSOCKET(09P,1.25mm,ANGLE,B-TO-B)		CJP09HJ282Z	1		
	BN27A	nsp	PINSOCKET(15P,1.25mm,ANGLE,B-TO-B)		CJP15HJ282Z	1		
	CN431	nsp	WAFER,FFC,SMD(23P-1mm,STRAIGHT)		CJP23GA193ZY	1		
	CN501,502	nsp	WAFER,64pin(2x32x1.27mm)SMDTYPE		CJP64GA312ZP	2		
	CN69B	nsp	WAFER,FFC,SMD(40P-1mm,STRAIGHT)		CJP40GA193ZY	1		
	CN704	nsp	WAFER,2mm,SMD,Vertical,07p		CJP07GA208ZY	1	*	
	CN903	nsp	LOCK-WAFER/STRAIGHT/2.5MMPITCH/5PIN		CJP05GI289ZY	1		
	CN904	nsp	WAFER,SMD(2MMPITCH)-4P		CJP04GA208ZY	1		
	JK201	943643101110S	JACK,2P(ORG),SILVER		CJJ4N068Y	1		
	JK202,203	943262100150S	MODULE,OPTICAL(RX16MHz)		CJSJSR1124	2		
	JK204	943643101920S	JACK,RCA(1P,BK,GOLDPLATE)		CJJ4M073ZY	1		
	JK381-384	943643102920S	JACK,HDMI(TYPE-A,SMT-19P,WITHFLANGE)		CJJ9H021Z	4		
	JK391-394	943643102920S	JACK,HDMI(TYPE-A,SMT-19P,WITHFLANGE)		CJJ9H021Z	4		
	JK431,432	943643102920S	JACK,HDMI(TYPE-A,SMT-19P,WITHFLANGE)		CJJ9H021Z	2		
	JK501	943643102430S	JACK,RJ-45W/TRANSFORMER		CJJ9L029Z	1		
	L1001-1006	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	6		
	L1008	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1009	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L1010	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1011-1013	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	3		
	L1014,1015	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	2		
	L1016-1020	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	5		
	L1022-1025	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	4		
	L1029-1034	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	6		
	L1111	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1113,1114	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	2		
	L1121	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1124	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1131	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1134	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1141	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1144	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1151	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1154	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1161	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1164	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1171	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1174	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1181	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1184	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1191	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1194	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1201	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1204	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1211-1213	nsp	FERRITECHIPBEAD(2012/220R)		CLZBLM21PG221SN	3		
	L1214	nsp	FERRITECHIPBEAD(2012/120R)		CLZBLM21AG121SN	1		
	L1215	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1218	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L2201	nsp	FERRITECHIPBEAD(2012/220R,CB05YTYH221)		CLZ9R018V	1		
	L3501-3513	nsp	FERRITECHIPBEAD(2012/220R)		CLZBLM21PG221SN	13		
	L3801-3808	nsp	FERRITECHIPBEAD(2012/220R)		CLZBLM21PG221SN	8		
	L3901-3908	nsp	FERRITECHIPBEAD(2012/220R)		CLZBLM21PG221SN	8		
	L3909	943113100000S	COMMONMODEFILTER(1210,90ohm)		CLZ9Z188Z	1		
	L4001-4008	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	8		
	L4010	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L4012-4016	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	5		
	L4301-4308	nsp	FERRITECHIPBEAD(2012/220R)		CLZBLM21PG221SN	8		
	L4311-4313	nsp	RES,CHIP(1005/5%/0ohm*2)		CRJ062IJ0R0T	3		
	L4314	943113100000S	COMMONMODEFILTER(1210,90ohm)		CLZ9Z188Z	1		
	L4321-4323	nsp	RES,CHIP(1005/5%/0ohm*2)		CRJ062IJ0R0T	3		
	L4324	943113100000S	COMMONMODEFILTER(1210,90ohm)		CLZ9Z188Z	1		
	L5111,5112	nsp	COMMONMODEFILTER(2012,90ohm)		CLZ9Z174Z	2		
	ST01-03	nsp	WIREASS'Y(1P,80MM,BLK,#22)		CWE5202080A	3		
	X1501	943141101260S	X-TAL,SMD(12MHz/8pF,FA-238V,3.2X2.5)		COX12000I080SP	1		
	X1701	943141101260S	X-TAL,SMD(12MHz/8pF,FA-238V,3.2X2.5)		COX12000I080SP	1		
	X2001	943141101310S	X-TAL,SMD(24.576MHz/10pF,FA-238,3.2X2.5)		COX24576I100SP	1	*	
	X2501	943141101280S	X-TAL,SMD(25MHz/12pF,FA-238,3.2X2.5)		COX25000I120SP	1		
	X2601	943141101280S	X-TAL,SMD(25MHz/12pF,FA-238,3.2X2.5)		COX25000I120SP	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	X2701	9431411012805	X-TAL,SMD(25MHz/12pF,FA-238,3.2X2.5)		COX25000I120SP	1		
	X2801	9431411012805	X-TAL,SMD(25MHz/12pF,FA-238,3.2X2.5)		COX25000I120SP	1		
	X3501	9431411013005	X-TAL,SMD(27MHz/12pF,FA-238,3.2X2.5)		COX27000I120SP	1		
	X3801	9431411012905	X-TAL,SMD(27MHz/7pF,FA-238,3.2X2.5)		COX27000I070SP	1		
	X3901	9431411012905	X-TAL,SMD(27MHz/7pF,FA-238,3.2X2.5)		COX27000I070SP	1		
	X4001	9431411013005	X-TAL,SMD(27MHz/12pF,FA-238,3.2X2.5)		COX27000I120SP	1		
	X4301	9431411012905	X-TAL,SMD(27MHz/7pF,FA-238,3.2X2.5)		COX27000I070SP	1		
	★	nsp	WIREASS'Y(4P,2.0MM,80MM,UL1007#24)		CWB1C004080LL	1	*	

CX870CONNECTOR PCB ASS'Y

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	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	IC911	943239101090S	I.C,Highsideswitch(TSSOP-B8)		CVIBD82065FVJ-E2	1		
	IC921	nsp	MODULE,BLUETOOTH,CLASS2,IBT-06-02		CNVIBT-06-02	1		
	IC922	00MHC012405KY	I.C,INVERTER(SON5-P-0.50)		CVITC7SGU04FE	1		
	IC923	943231101890S	I.C,LDOREGULATOR(HTSOP-J8)		CVIBD00HA3WEFJ-I	1		
	RESISTOR GROUP							
	R9102,9103	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
	R9106	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9107-9112	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	6		
	R9113	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9114	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R9116	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R9119	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9122,9123	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R9124,9125	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R9127	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9141-9152	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	12		
	R9161,9162	nsp	RES,CHIP(1005/5%/2.2Kohm)		CRJ06IJ222T	2		
	R9191	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R9202	nsp	RES,CHIP(1608/5%/680Kohm)		CRJ10DJ684T	1		
	R9203,9204	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R9206	nsp	RES,CHIP(1608/5%/10Mohm)		CRJ10DJ106T	1		
	R9211	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9213	nsp	RES,CHIP(1608/5%/11Kohm)		CRJ10DJ113T	1		
	R9214	nsp	RES,CHIP(1608/5%/39Kohm)		CRJ10DJ393T	1		
	RN911	nsp	RES,CHIP(1005/5%/0ohm*4)		CRJ064IJ0R0T	1		
	RN913	nsp	RES,CHIP(1005/5%/0ohm*4)		CRJ064IJ0R0T	1		
	RN915	nsp	RES,CHIP(1005/5%/0ohm*4)		CRJ064IJ0R0T	1		
	CAPACIITORS GROUP							
	C9105,9106	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C9107-9110	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	4		
	C9113	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C9114-9117	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	4		
	C9201	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C9203-9205	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C9206	nsp	CAP,CHIP(1608,50V/27pF,C0G)_SAMSUNG		CCUS1H270JAS	1		
	C9207	nsp	CAP,CHIP(1608,50V/22pF,C0G)_SAMSUNG		CCUS1H220JAS	1		
	C9211	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C9213	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	OTHER PARTS GROUP							
	BK911	nsp	BRACKET,NETWORKB		CMD1A902	1		
	BK912	nsp	BRACKET,NETWORKB		CMD1A902	1		
	BN501,502	nsp	WAFER,64pin(2x32x1.27mm)FEMALESMDTYPE		CJP64GA314ZP	2		
	CN911	nsp	WAFER,120PINH=4.5mmp=0.5mm		CJP120GA313ZR	1		
	CN914	nsp	LOCK-WAFER/ANGLE/2MMPITCH/5PIN		CJP05GJ288ZY	1		
	CN915	nsp	WAFER,SMTRIGHTANGLE		CJP04GB220ZY	1		
	CN916	nsp	LOCK-WAFER/ANGLE/2MMPITCH/11PIN		CJP11GJ288ZY	1	*	
	CN917	nsp	WAFER,FFC,SMD(07P-1mm,STRAIGHT)		CJP07GA193ZY	1		
	JW911	nsp	WIREASS'Y(1P,80MM,BLK,#22)		CWE5202080A	1		
	JW913	nsp	WIREASS'Y(1P,80MM,BLK,#22)		CWE5202080A	1		
	BN921 EXPLODED C6	nsp	WIREASS'YLocking(YH)(11P,2MM,380MM,#26)		CWB7B011380HC00	1		
	L9101,9102	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	2		
	L9201,9202	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	2		
	X9201	943141101250S	X-TAL,SMD(32.768KHz/12.5pF,FC-135,3.2x2.5)		COX00032I125SP	1		

EXPLODED

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	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C26	nsp	VIDEO		COP12524J	1	*	
	C1	nsp	FRONT PCB ASS'Y	E3	COP12622B-1, 2	1	*	
	C1	nsp	FRONT PCB ASS'Y	E2/JP	COP12622C-1, 2	1	*	
	┣C2	nsp	HEAD PHONE		COP12622B-3	1	*	
	┗C3	nsp	FRONT HDMI FFC CABLE		COP12622B-4	1	*	
	C12	nsp	AMP		COP12625B	1		
	C38	nsp	SPK	E3	COP12627B-1	1		
	C38	nsp	SPK	E2	COP12627C-1	1		
	C38	nsp	SPK	JP	COP12627D-1	1		
	┣C27	nsp	SPK FW	E3	COP12627B-2	1		
	┣C27	nsp	SPK FW	E2	COP12627C-2	1		
	┣C27	nsp	SPK FW	JP	COP12627D-2	1		
	┣C36	nsp	FUSE	E3	COP12627B-3	1		
	┣C36	nsp	FUSE	E2	COP12627C-3	1		
	┣C36	nsp	FUSE	JP	COP12627D-3	1		
	┣C11	nsp	GUIDE L	E3	COP12627B-5	1		
	┣C11	nsp	GUIDE L	E2	COP12627C-5	1		
	┣C11	nsp	GUIDE L	JP	COP12627D-5	1		
	┗C28	nsp	GUIDE	E3	COP12627B-6	1		
	┗C28	nsp	GUIDE	E2	COP12627C-6	1		
	┗C28	nsp	GUIDE	JP	COP12627D-6	1		
	C24	nsp	INPUT	E3/JP	COP12632B-1	1	*	
	C24	nsp	INPUT	E2	COP12632C-1	1	*	
	┗C9	nsp	USB	E3/JP	COP12632B-2	1	*	
	┗C9	nsp	USB	E2	COP12632C-2	1	*	
	C7	943639101790D	F_HDMI		COP12639B	1	*	
	C15	nsp	SMPS	E3	COP12641B	1		
	C15	nsp	SMPS	E2	COP12641C	1		
	C15	nsp	SMPS	JP	COP12641D	1		
	C35	nsp	FRONT_CNT		COP12684B	1	*	
	C37	nsp	SIDE CNT		COP12685B-1	1	*	
	┗C14	nsp	GUIDE FFC		COP12685B-2	1	*	
	C31	943189101160D	IC,CX870MODULE(AVR-X4100WE3)	E3	CVIANAM2060AV	1	*	
	C31	943189101470D	IC,CX870MODULE(AVR-X4100WE2)	E2	CVIANAM2061AV	1	*	
	C31	943189101180D	IC,CX870MODULE(AVR-X4100WK)	JP	CVIANAM2062AV	1	*	
	┣	nsp	Module,NetworkedMedia+WiFiANT2EA(Removable)		CNVCX870-3B-D120	1	*	
	┗	nsp	LABEL,SERIALNO		CQB1A995	2		
	C29	9U6391017500D	DIGITAL	E3	COP12719B	1	*	
	C29	9U6391017400D	DIGITAL	E2	COP12719C	1	*	
	C29	9U6391017700D	DIGITAL	JP	COP12719D	1	*	
	C30	943189101090D	CX870 MIDDLE		COP12721B-1	1		
	┗C5	-	BLUETOOTH		COP12721B-2	1		
!	C23	943101102580D	TRANS,POWER(EI96X75)	E3	CLT5V069ZU	1	*	
!	C23	943101102550D	TRANS,POWER(EI96X75)	E2	CLT5V069ZE	1	*	
!	C23	943101102570D	TRANS,POWER(EI96X75)	JP	CLT5V069ZJ	1	*	
!	C33－RT01	00MYJ04002640	RECEPTACLE,AC(15A/250V,R-301,B21)		CJJ8A006ZW	1		
	┗TW91	nsp	2PWIREASS'Y(100MM)		CWZPM5003TW91	1		
	C34	nsp	TERMINAL,GROUND		CMA1A006	1		
	C4	943606502560S	CARDCABLE,(1mm/40P/220mm/B)		CWC4F2A40A220B0	1	*	
	C8	943606502570S	CARDCABLE,(1mm/23P/300mm/B/SHIELD)		CWC4F2A23A300B1	1	*	
	M1	41201007600AD	SELECTKNOBASS'Y	BK	CGK1A167ZA	1		
	M1	41201007601AD	SELECTKNOBASS'Y	SP	CGK1A167YA	1		
	M2	41201007500AD	VOLUMEKNOBASS'Y	BK	CGK1A166ZA	1		
	M2	41201007501AD	VOLUMEKNOBASS'Y	SP	CGK1A166YA	1		
	M3	42141003400AD	BADGE,DENON	E3/JP	CGB1A275Z	1		
	M3	42141002400AD	BADGE,DENON	BKE2	CGB1A254Z-V1	1		
	M3	42141002401AD	BADGE,DENON	SPE2	CGB1A254Y-V1	1		
	M4	42131003300AD	BADGE,INCOMEND	E3	CGB1A276Z	1		
	M5	943402104890D	PANEL,ALFRONT	E3	CKM2A244KC45	1	*	
	M5	943402104880D	PANEL,ALFRONT	BKE2	CKM1A244OC45	1	*	
	M5	943402104870D	PANEL,ALFRONT	SPE2	CKM1A244NC62	1	*	
	M5	943402104860D	PANEL,ALFRONT	JP	CKM1A244MC45	1	*	
	M6	943415100330D	DOOR,AL	BK	CKM1A245C45	1		
	M6	943415100340D	DOOR,AL	SP	CKM1A245C62	1		
	M7	nsp	MAGNET,BASE		CJC1A008	1		
	M8	nsp	EARTH,DOOR		CMC1A433	1		
	M9	943403101120D	CABINET,TOP	BK	CKC3A155K117	1		
	M9	943403101130D	CABINET,TOP	SP	CKC3A155D11	1		
	M10	nsp	BRACKET,FRONT		CMD1A804	1		
	M11	nsp	CHASSIS,BOTTOM		CUA5A330	1		
	M12	nsp	HEATSINK		CMY2A376	1		
	M13	nsp	BRACKET,AMPPCB		CMD1A796	5		
	M14	nsp	PLATE,TRANS		CMD1A921	1	*	
	M15	nsp	SMPSBRACKET		CMD1A790	1		
	M19	nsp	PCBBRACKET(HDMI)		CMD1A791	1		
	M20	nsp	PANEL,REAR	E3	CKF1A483Z	1	*	
	M20	nsp	PANEL,REAR	E2	CKF1A483Y	1	*	
	M20	nsp	PANEL,REAR	JP	CKF1A483X	1	*	
	M21	nsp	NUT		-	2		
	M22	nsp	WASHER		-	2		
	P1	943416100770D	WINDOW,VFD		CGU1A463Z	1		
	P2	943451101230D	SHEET,VOLUMEKNOB		CGX1A473	1		
	P3	943451101210D	SHEET,SELECTKNOB		CGX1A474	1		
	P4	42451003000AD	RING,SELECT	BK	CGR1A536	1		
	P4	42451003001AD	RING,SELECT	SP	CGR1A536C73	1		
	P5	42451002900AD	RING,VOLUME	BK	CGR1A535	1		
	P5	42451002901AD	RING,VOLUME	SP	CGR1A535C73	1		
	P6	943415100350D	HOLDER,DOOR	BK	CKG1A056	1		
	P6	943415100360D	HOLDER,DOOR	SP	CKG1A056G45	1		
	P7	943422101000D	SHEET,ORNAMENT	E3/JP	CGX1A470V	1	*	
	P7	943422101010D	SHEET,ORNAMENT	BKE2	CGX1A470U	1	*	
	P7	943422101020D	SHEET,ORNAMENT	SP	CGX1A470T	1	*	
	P8	943413100390D	CAP,DOOR		CHG1A551	1		
	P9	00M446T056010	CUSHION,DOOR		CHG1A296Y	2		
	P10	943443101030S	PANEL,INNER	BK	CGW3A521	1	*	
	P10	943443101040S	PANEL,INNER	SP	CGW3A521G45	1	*	
	P11	943423100510D	INDICATOR,POWER		CGL1A299A36	1		
	P12	943411101750D	BUTTON,POWER	BK	CBT1A1167	1		
	P12	943411101760D	BUTTON,POWER	SP	CBT1A1167C73	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	P13	nsp	COVER,DOORA		CMH1A329	1		
	P14	nsp	GEAR,DAMPERSR6003		CDG1A027W	1		
	P15	943411103310D	BUTTON,ENTER	E3/JP	CBT1A1165X	1	*	
	P15	943411103320D	BUTTON,ENTER	BKE2	CBT1A1165Z	1	*	
	P15	943411103330D	BUTTON,ENTER	SP	CBT1A1165YG45	1	*	
	P16	nsp	COVER,DOORB		CMH1A330	1		
	P17	nsp	CUSHION,EVA		CHG1A590	1		
	P18	943407100520S	FOOT		CKL1A225H49	4	*	
	P19	nsp	CUSHION,FOOT		CHG2A289	4		
	P20	nsp	RUBBER		CHG1A113	5		
	P21	nsp	HOLDER,PCB		CHE170	3		
	P22	nsp	SUPPORT,RUBBER		CHG1A535	1		
	P23	nsp	SUPPORT,PCB		CRE1A102	1		
	P24	nsp	SUPPORT,PCB31		CRE1A073	1		
	P25	nsp	ORNAMENT,REARPANELA		CGX1A508Z	1	*	
	P26	nsp	ORNAMENT,REARPANELB		CGX1A509Z	1	*	
	P27	nsp	LICENSE LABEL	E3	CQB1A1313Z	1	*	
	P27	nsp	LICENSE LABEL	E2/JP	CQB1A1314Z	1	*	
	P28	nsp	LABEL,POP	E3	CQB1A1280Z	1	*	
	P28	nsp	LABEL,POP	E2	CQB1A1281Z	1	*	
	P28	nsp	LABEL,POP	JP	CQB1A1282Z	1	*	
	S1	nsp	SCREW,DOT	BK	CTBD3+10JFZR	6		
	S1	nsp	SCREW,DOT	SP	CTBD3+10JFN	6		
	S2	nsp	SCREW		CTW3+8JR	15		
	S3	nsp	SCREW		CTB3+10JR	16		
	S4	nsp	SCREW		CTB3+8JR	22		
	S5	nsp	SCREW,SPECIAL		CHD3A012R	21		
	S6	nsp	SCREW		CTW3+12JR	5		
	S7	nsp	SCREW		CTB3+6JR	1		
	S8	nsp	SCREW		CTB3+6FR	9		
	S9	nsp	SCREW		CTBD3+8JFZR	39		
	S9	nsp	SCREW	BK	CTBD3+8JFZR	3		
	S10	nsp	SCREW		CTBD3+6FFZR	15		
	S11	nsp	SCREW	BK	CTBD4+8JFZR	6		
	S11	nsp	SCREW	SP	CTBD4+8JFN	6		
	S12	nsp	SCREW,TRANS		CHDR1A023R	4		
	S13	nsp	SCREW		CTB3+8JFZR	2		
	S14	nsp	SCREW,SPECIAL		CHD1A109JFN	2		
	S15	nsp	DOTSCREW	SP	CTBD3+8JFN	3		
	★	nsp	TAPE,HIMELON		CHS1A216	3		
	★	nsp	GASKET,EMC		CMC1A479	1		
	★	nsp	CUSHION,SUPPORT		CHG1A305	2		
	★	nsp	LOCKER	E2	CRE1A037	22		

PACKING

※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.

E3 : U.S.A. & Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	1	nsp	SET,AVRECEIVER	E3	AVRX4100WBKE3SE	1	*	
	1	nsp	SET,AVRECEIVER	BKE2	AVRX4100WBKE2SE	1	*	
	1	nsp	SET,AVRECEIVER	SPE2	AVRX4100WSPE2SE	1	*	
	1	nsp	SET,AVRECEIVER	JP	AVRX4100WKSET	1	*	
	2	nsp	POLYSHEET		CPB1A213	1		
	3	nsp	TAPE,P.P(24MM*50MM)		C4F3247YE	0.5		
	4	943533102730D	PAD,SNOWBOTTOM		CPS1A939-V1	1		
	5	943533102600D	PAD,SNOWTOP		CPS1A993	1		
	6	943531104530D	BOX,OUTCARTON	E3	CPG1A1028Z	1	*	
	6	943531104520D	BOX,OUTCARTON	E2	CPG1A1028Y	1	*	
	6	943531104500D	BOX,OUTCARTON	JP	CPG1A1028X	1	*	
	7	nsp	TAPE,OPP		C4FC500CL	2		
	8	-	INSTRUCTIONMANUALASS'Y	E3	CQXAVRX4100WE3	1	*	
	8	-	INSTRUCTIONMANUALASS'Y	E2	CQXAVRX4100WE2	1	*	
	8	-	INSTRUCTIONMANUALASS'Y	JP	CQXAVRX4100WK	1	*	
	8-1	35201034600AD	CDMANUALASS'Y	E3	CFT1A134ZA	1	*	
	8-1	35201034601AD	CDMANUALASS'Y	E2	CFT1A135ZA	1	*	
	8-1	35201034603AD	CDMANUALASS'Y	JP	CFT1A136ZA	1	*	
	8-2	54111119300AD	MANUAL.GUIDE	E3	CQX1A1845Z	1	*	
	8-2	54111119301AD	MANUAL.GUIDE	E2	CQX1A1846Z	1	*	
	8-2	54111119303AD	MANUAL.GUIDE	JP	CQX1A1847Z	1	*	
	8-3	nsp	BAG,ZIPPERPOLY(A5)		CPB1A227Z	1		
	9	-	ACCESSORYASS'Y	E3	CSAAVRX4100WE3	1		
	9	-	ACCESSORYASS'Y	E2	CSAAVRX4100WE2	1		
	9	-	ACCESSORYASS'Y	JP	CSAAVRX4100WK	1		
	9-1	nsp	BAG,POLY		CPB1A216Z	1		
	9-2	943606502580S	LABEL,SPEAKERCABLE		CQB1A1260Z	1	*	
	9-3	nsp	CARD,WARRANTY	E3	CQE1A224N	1		
	9-4	nsp	SAFETYINSTRUCTION	E3	CQE1A726Z	1	*	
	9-5	nsp	NOTEONRADIO		CQE1A727Z	1	*	
	9-6	nsp	SHEET,INSERTION	E3	CQE1A559Z	1		
	9-7	nsp	LABEL,AMANTENNA		CQB1A1240Z	1		
	9-8	nsp	LABEL,FMANTENNA		CQB1A1241Z	1		
	9-9	963116100070S	ANT,AMLOOP(9.5uH/5T)		CSA1A039Y	1		
	9-10	943116100170D	FM1POLEANT(ULTYPE)		CSA1A044Z	1		
	10	-	WIFI-FLYSHEETASS'Y		CQE1A728ZA	1	*	
	10-1	nsp	POLY,BAG		CPB1A240Z	1	*	
	10-2	943606502590S	SHEET,WIFIANTENNAFLY		CQE1A728Z	1	*	
	10-3	11601005400AS	WI-FI ANTENNA(RFDPA870900SBAB801)		-	2		
	11	nsp	MICSTANDASS'Y		CPG1A1021ZA	1		
!	12	943611500750D	CORD,POWER(PLUG+SOCKET)UL,(WHITEBANDING)	E3	CJA2A119YL	1		
!	12	943611500760D	CORD,POWER(PLUG+SOCKET)EUR,(WHITEBANDING)	E2	CJA2B120Y	1		
!	12	943611500780D	CORD,POWER(PLUG+SOCKET)JPN,(WHITEBANDING)	JP	CJA2J121Y	1		
	13	nsp	BAG,POLY		CPB1A008Z	1		
	14	30701016200AD	REMOCONASS'Y(RC-1193)		CARTAVRX4100W	1	*	
	15	nsp	BATTERY,AA2PCSINPACK		CABR6PPB	2		
	16	32401000800AD	MIC,AUDYSSEY		CJXACM1HB	1		
	17	nsp	LABEL,MIC		CQB1A1242Z	1		
	18	nsp	LABEL,CONTROL		CQB2A993Z	1		
	18-1	nsp	LABEL , CONTROL (SERIAL No.)		CQB2A993Z-1	1		
	18-2	nsp	LABEL . CONTROL (MANUFACTURE)		CQB2A993Z-2	1		
	19	nsp	LABEL,SERIALNO		CQB1A995	2		
	20	nsp	LABEL,POP				*	
	21	nsp	TAPE,FILAMENT		C4FE187	0.15		
	22	nsp	LABEL,SPOTIFY	E3/E2	CQB1A1299Z	1		
	23	nsp	LICENSE LABEL				*	
	24	nsp	LABEL,WHITEM1SG	SP	CQB1A908Z	2		
	25	nsp	CARD,GUARANTEE(M)	JP	CQE1A194T	1		