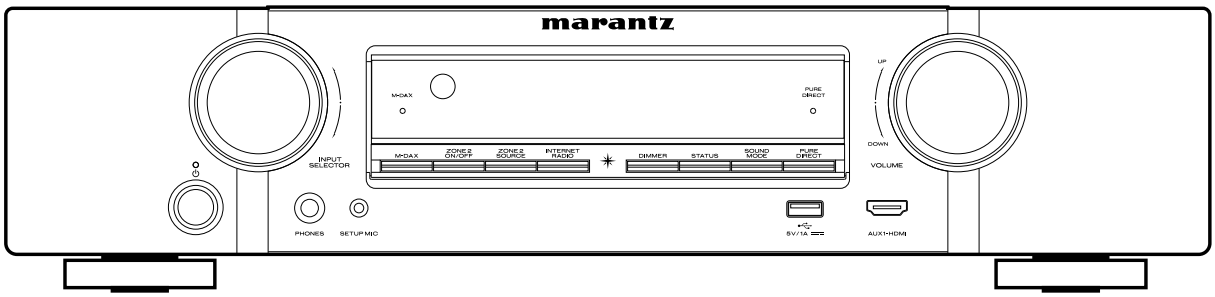
Service Manual

NR1605 /U1B/N1B/N1SG
/FB

AV SURROUND RECEIVER



- For purposes of improvement, specifications and design are subject to change without notice.
- Please use this service manual with referring to the operating instructions without fail.
- Some illustrations using in this service manual are slightly different from the actual set.

marantz®

NR1605

Ver. 2
Please refer to the MODIFICATION NOTICE.

S0861-1V02DM/DG1406

Contents

ABOUT THIS MANUAL

Read the following information before using the service manual.

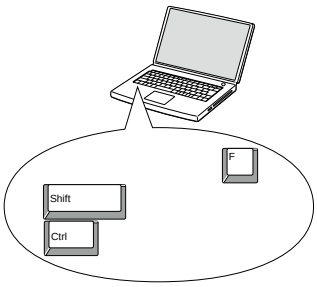
What you can do with this manual

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.

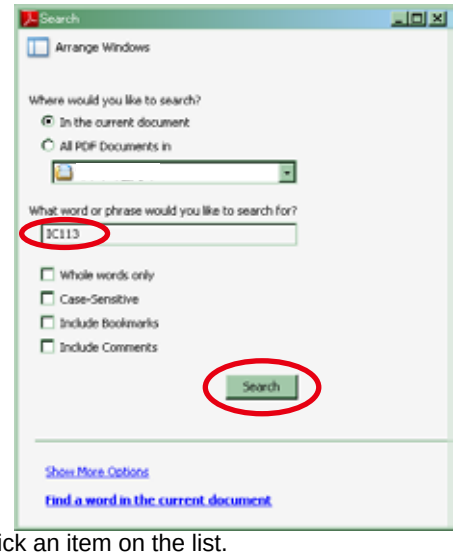
1.Press **Ctrl+Shift+F** on the keyboard.

- 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.



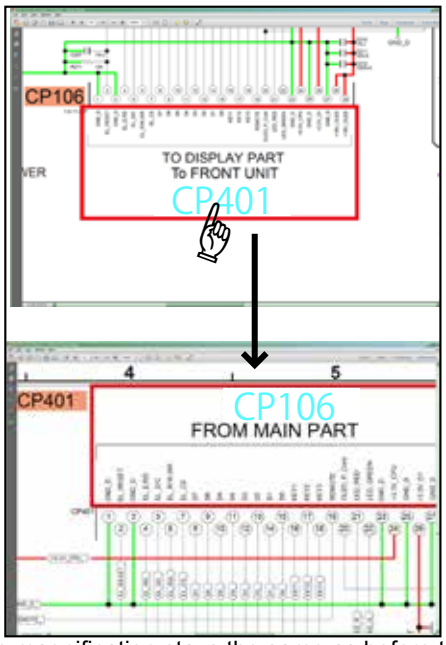
3.Click an item on the list.

• 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.

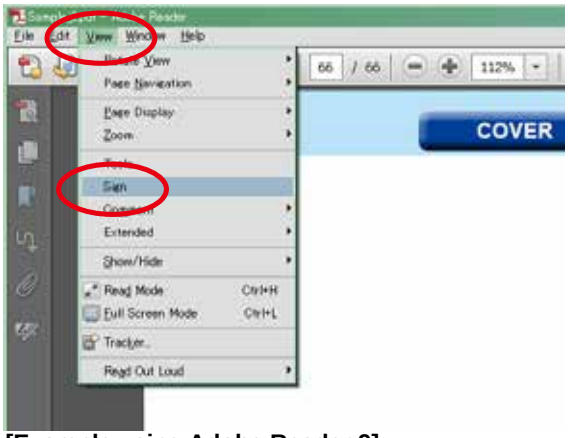
Using Adobe Reader (Windows version)

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.



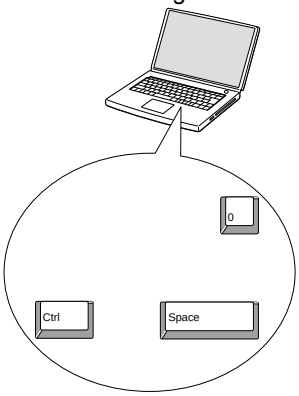
[Example using Adobe Reader 9]
On the **"Document"** menu, click **"Sign"**.

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.

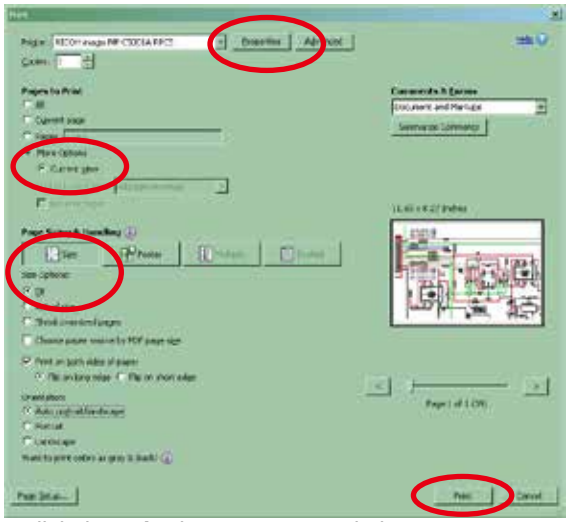


- When you want to move the area shown, hold down **Space** and drag the mouse.
- When you want to show a full page view, press **Ctrl+0** on the keyboard.

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**"

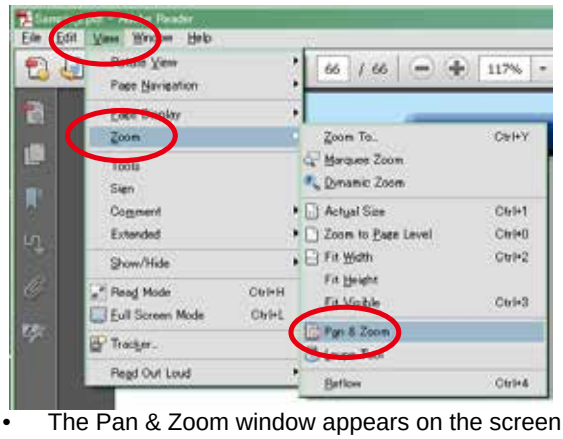
4. Click the **Print** button to start printing.

Magnify schematic / printed circuit board diagrams - 2

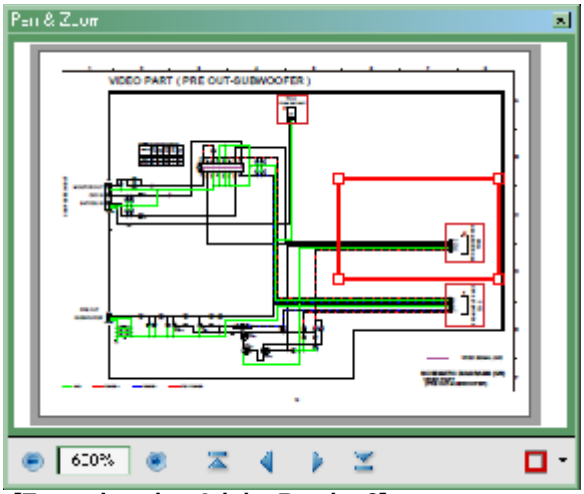
(Pan & Zoom function)

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.



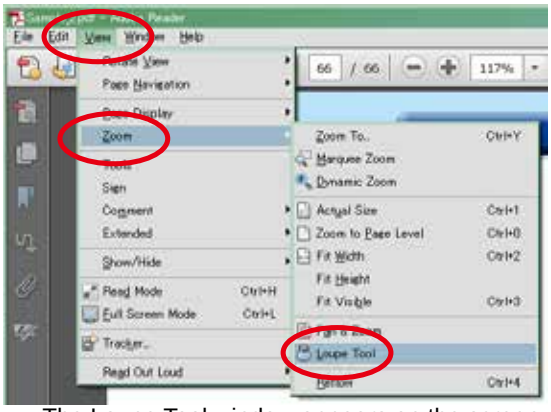
[Example using Adobe Reader 9]
On the **"Tools"** menu, point to **"Select & Zoom"**, and then click **"Pan & Zoom Window"**.

Magnify schematic / printed circuit board diagrams - 3

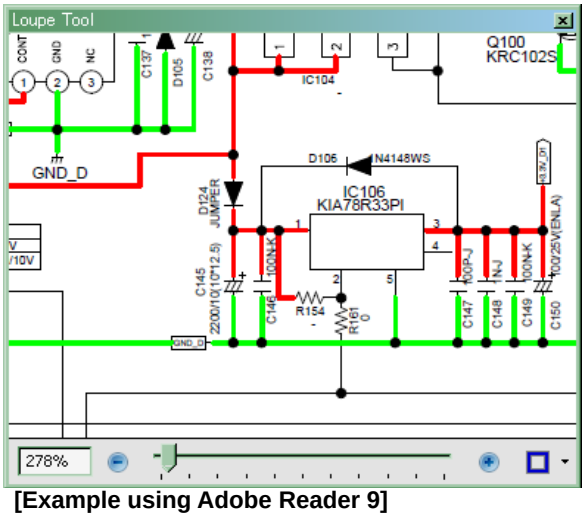
(Loupe Tool function)

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

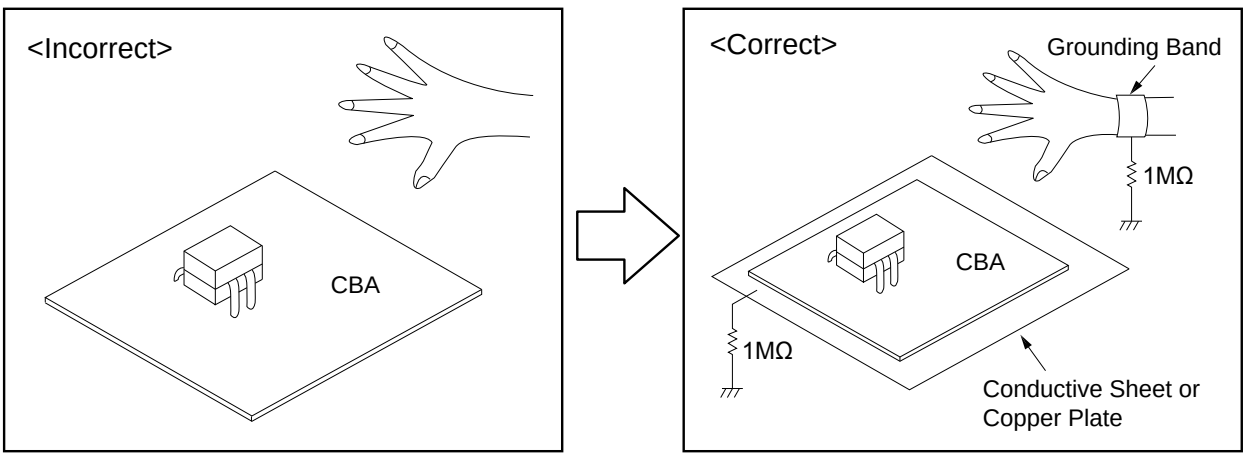
1. Parts indicated by **"nsp"** on this table cannot be supplied.
2. When ordering a part, make a clear distinction between "1" and "I" (i) to avoid mis-supplying.
3. A part ordered without specifying its part number can not be supplied.
4. Part indicated by " ★ " mark is not illustrated in the exploded 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 :
50W+50W (8Ω, 20Hz - 20kHz with 0.08% T.H.D.)
70W+70W (6Ω, 1kHz with 0.7% T.H.D)

Center :
50W (8Ω, 20Hz - 20kHz with 0.08% T.H.D.)
70W (6Ω, 1 kHz with 0.7 % T.H.D.)

Surround :
50W+50W (8Ω, 20 Hz - 20 kHz with 0.08% T.H.D.)
70W+70W (6Ω, 1 kHz with 0.7 % T.H.D.)

Surround back:
50W+50W (8Ω, 20 Hz - 20 kHz with 0.08% T.H.D.)
70W+70W (6Ω, 1 kHz with 0.7 % T.H.D.)

Output connectors : 4～16Ω

❑ Analog section

Input sensitivity/Input impedance : 130 mV/47 kΩ
Frequency response : 10 Hz – 100 kHz — +1, –3 dB (Direct mode)
S/N : 98 dB(IHF-A, weighted, Direct mode)

❑ Video section

- **Standard video connectors**

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

Reception frequency range : **FM** 87.5 MHz - 107.9 MHz(for U)
FM 87.5 MHz - 108.0 MHz(for N)
FM 76.0 MHz - 90.0 MHz(for F)
AM 520 kHz - 1710 kHz(for U)
AM 522 kHz - 1611 kHz(for N)
AM 522 kHz - 1629 kHz(for F)

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

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

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

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 U)
1 - 13 ch (for N, F)

∗1 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

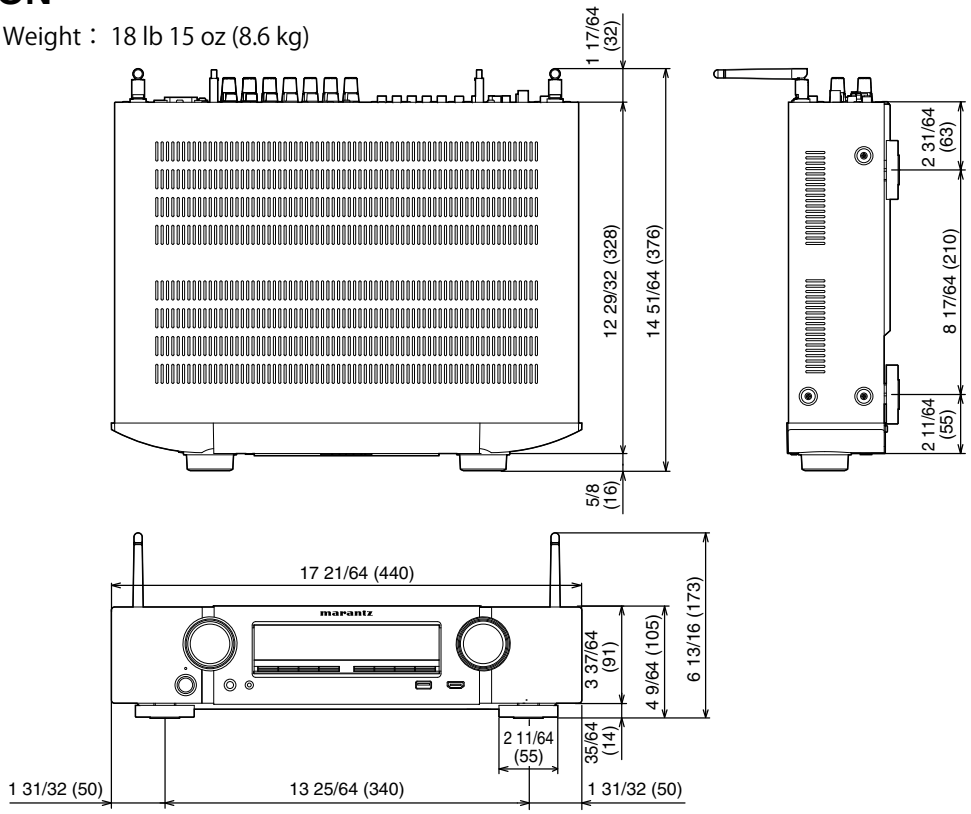
Power supply : (for U) : AC 120 V, 60 Hz
(for N) : AC 230 V, 50 Hz / 60Hz
(for F) : AC 100V, 50/60Hz

Power consumption : 250W
Power consumption in standby mode : 0.2W
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： 18 lb 15 oz (8.6 kg)



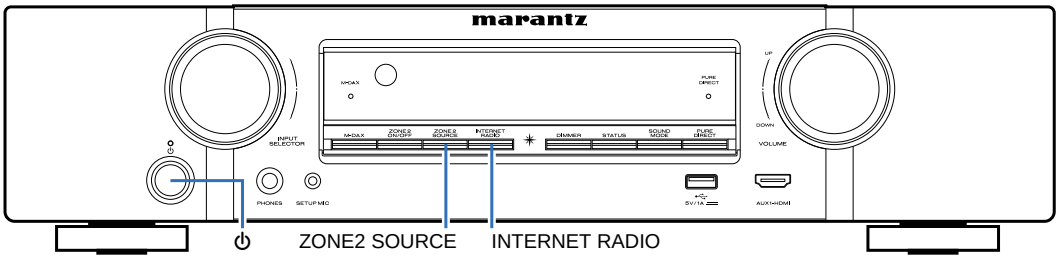
PRECAUTIONS DURING SERVICE

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 "**ZONE2 SOURCE**" and "**INTERNET RADIO**" 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.



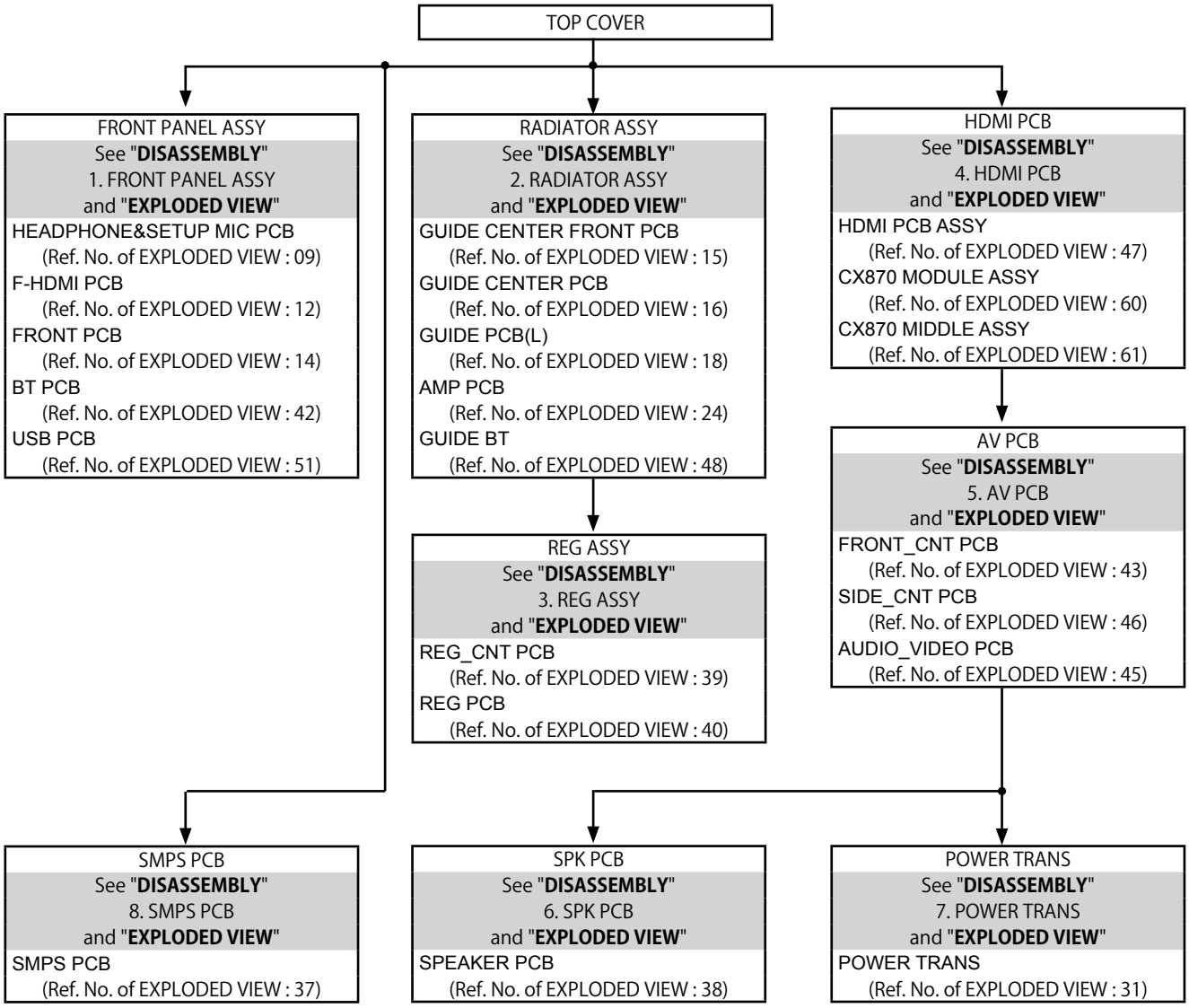
Service Jigs

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
(See 55 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.

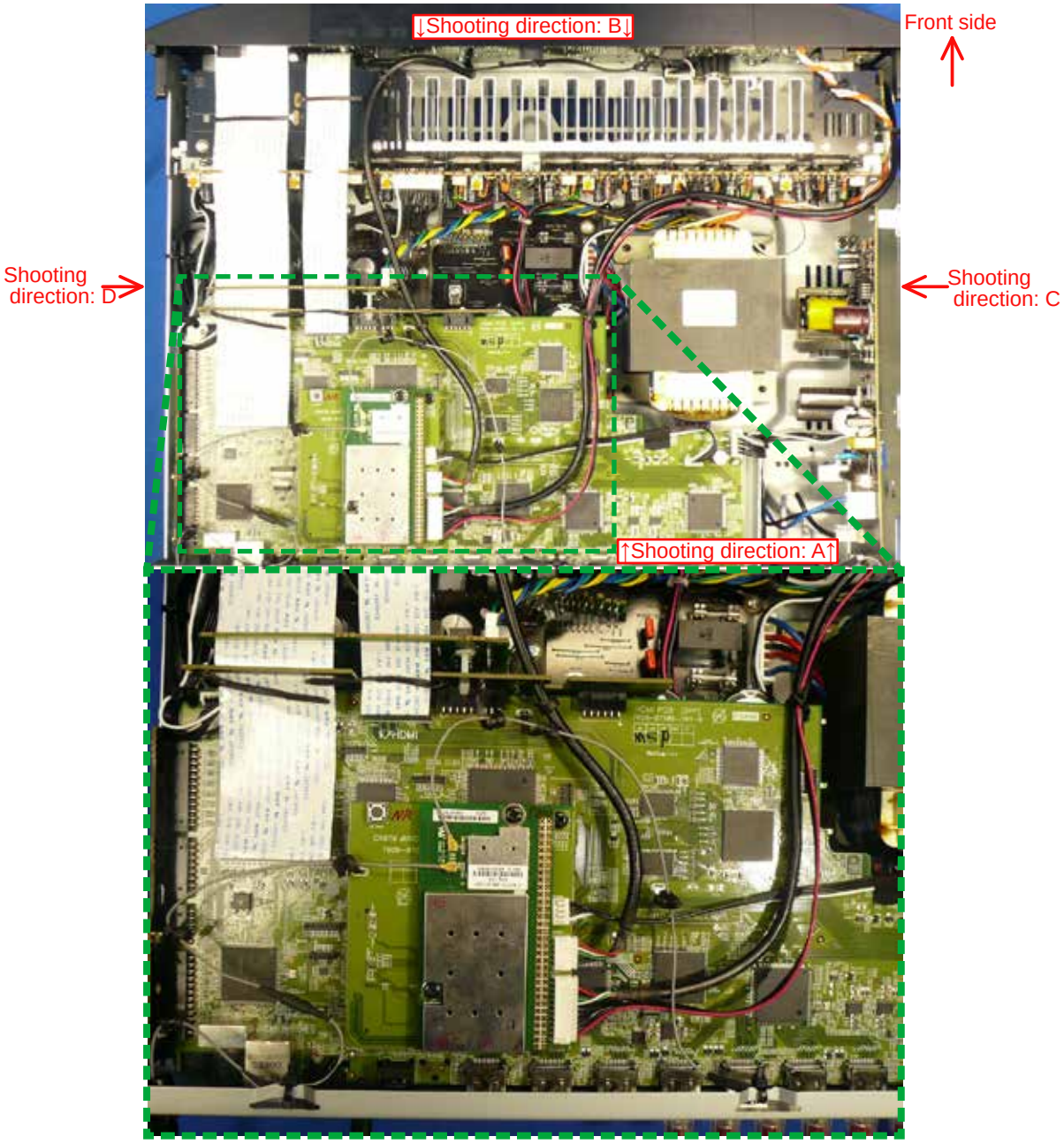


Explanatory Photos for DISASSEMBLY

- 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 NR1605U model.

The viewpoint of each photograph

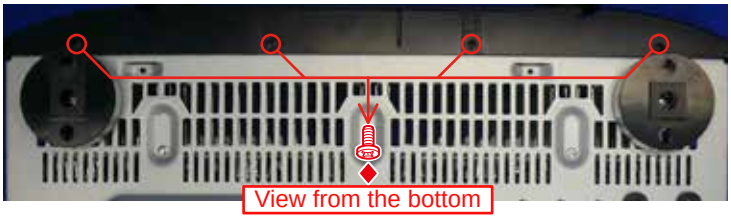
(Shooting direction:X) ［View from the top］



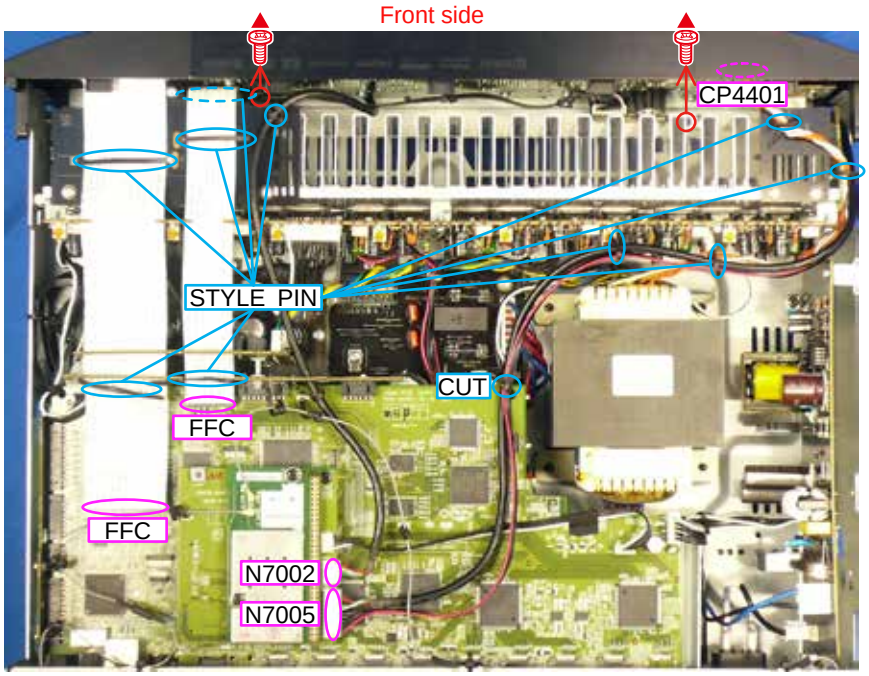
1. FRONT PANEL ASSY

Proceeding : TOP COVER → FRONT PANEL ASSY

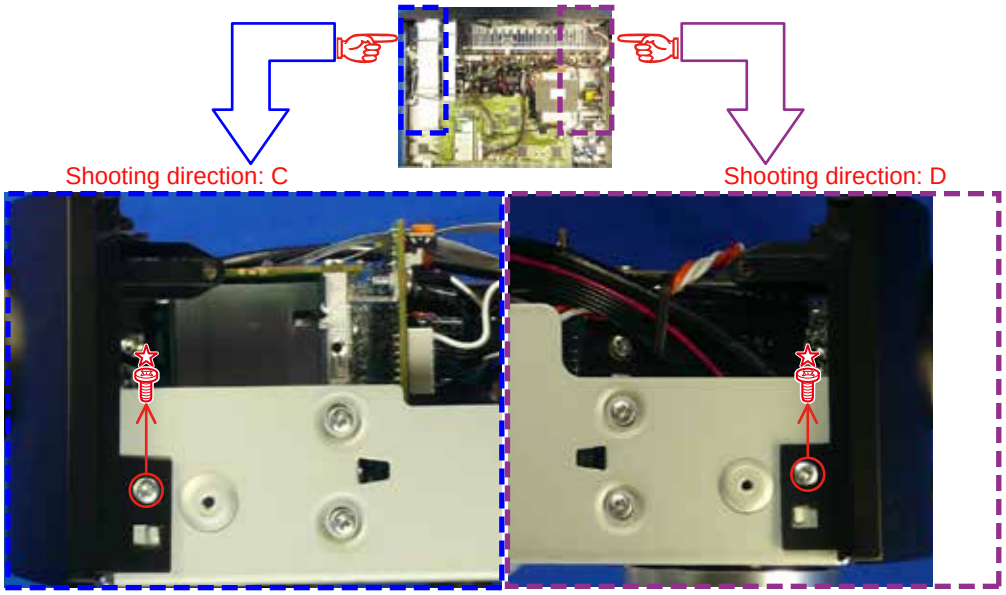
(1) Remove the screws.



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



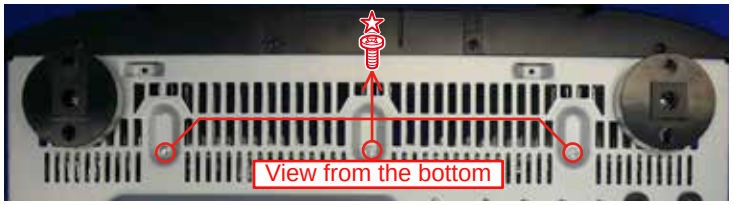
(3) Remove the screws.



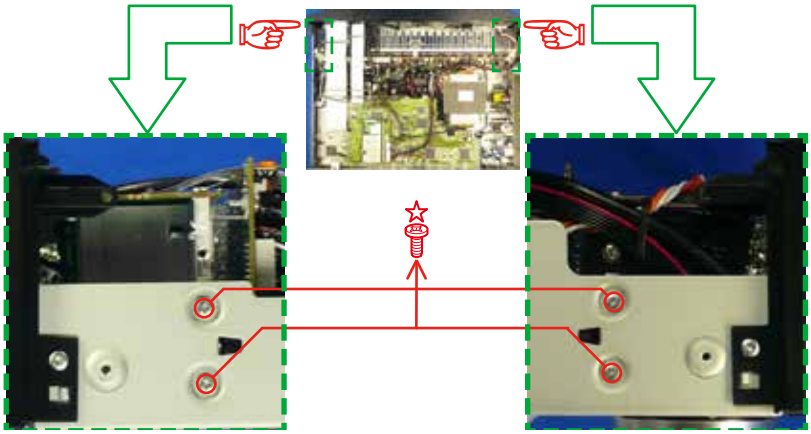
2. RADIATOR ASSY

Proceeding : TOP COVER → RADIATOR ASSY

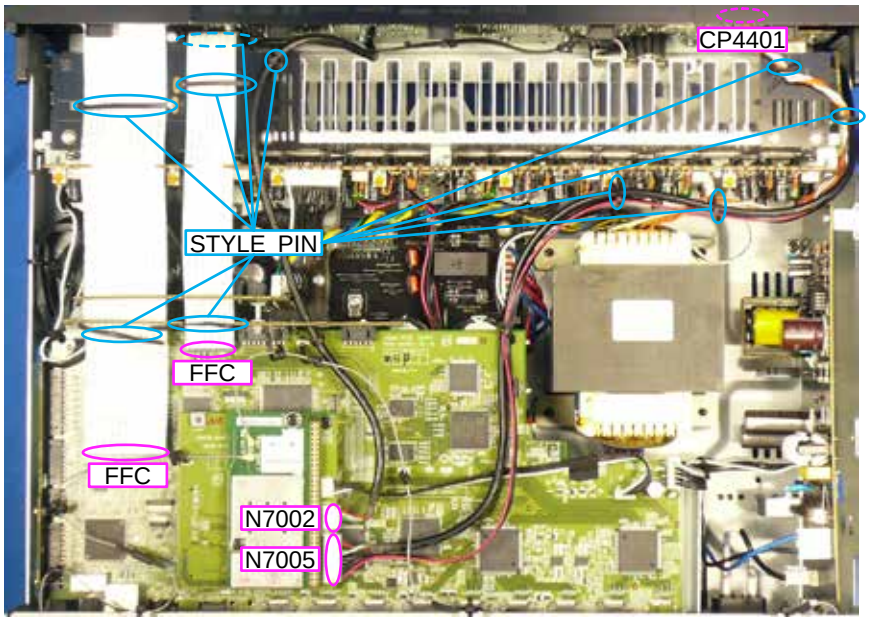
(1) Remove the screws.



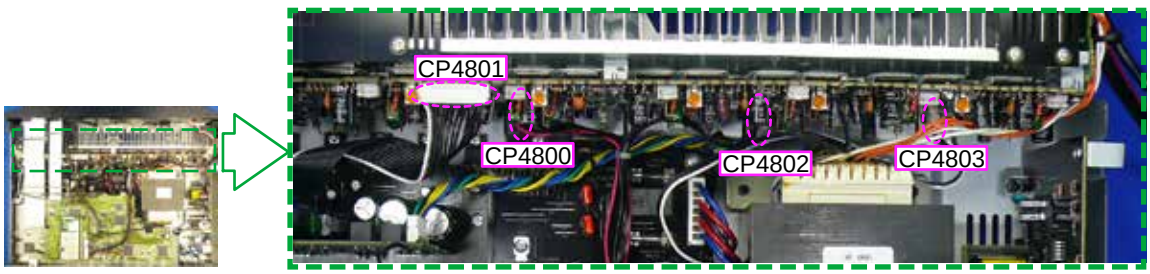
(2) Remove the screws.



(3) Remove the connector wire and STYLE PIN.



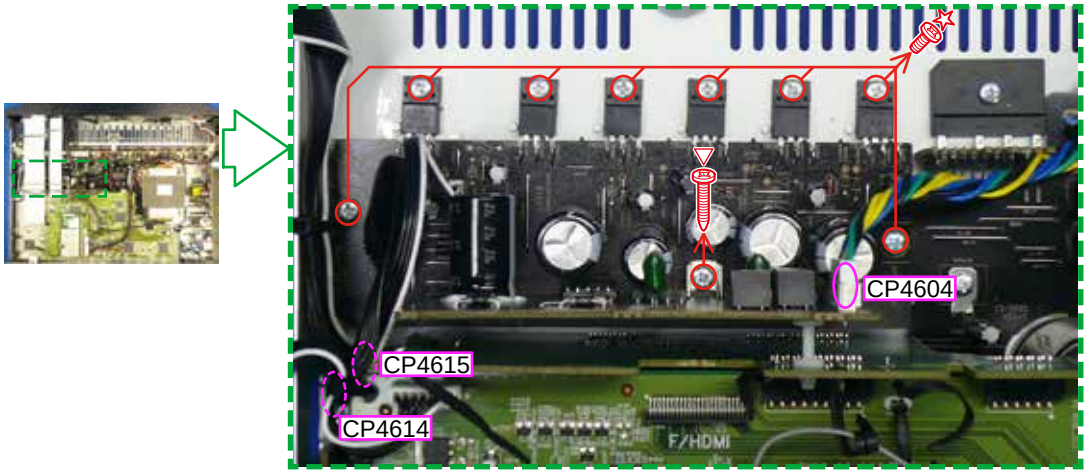
(4) Remove the connector wire.



3. REG ASSY

Proceeding : TOP COVER → RADIATOR ASSY → REG ASSY

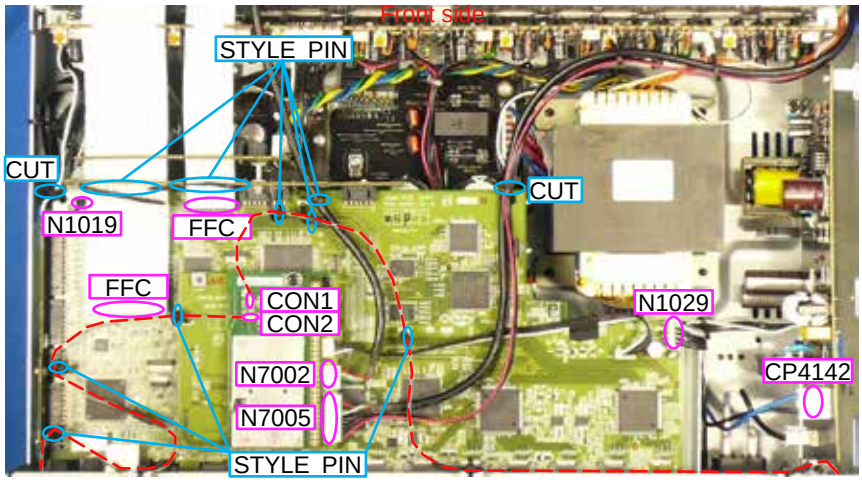
(1) Remove the screws. Remove the connector.



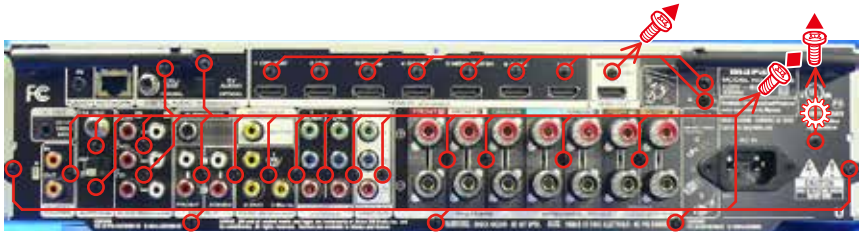
4. HDMI PCB

Proceeding : TOP COVER → HDMI PCB

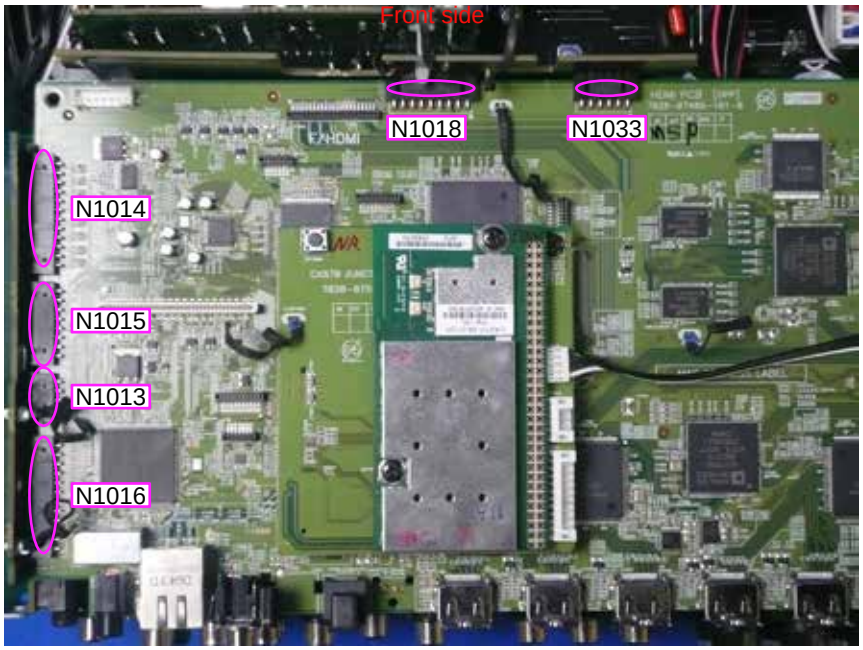
(1) Cut the wire clamp, then remove the connector wires and FFC. Remove the STYLE PIN.



(2) Remove the screws.



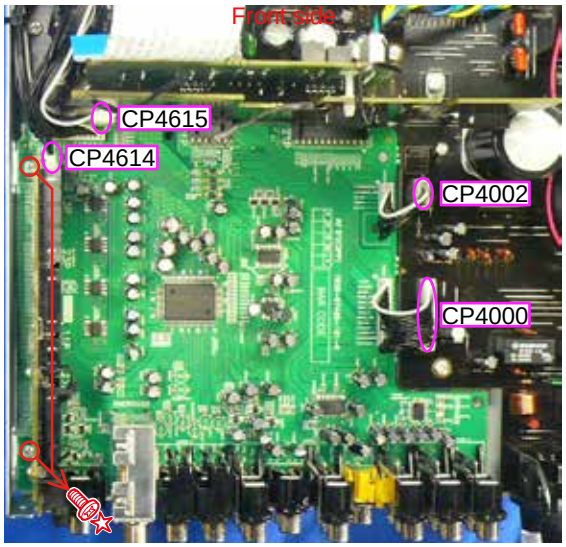
(3) Remove the connector.



5. AV PCB

Proceeding : TOP COVER → HDMI PCB → AV PCB

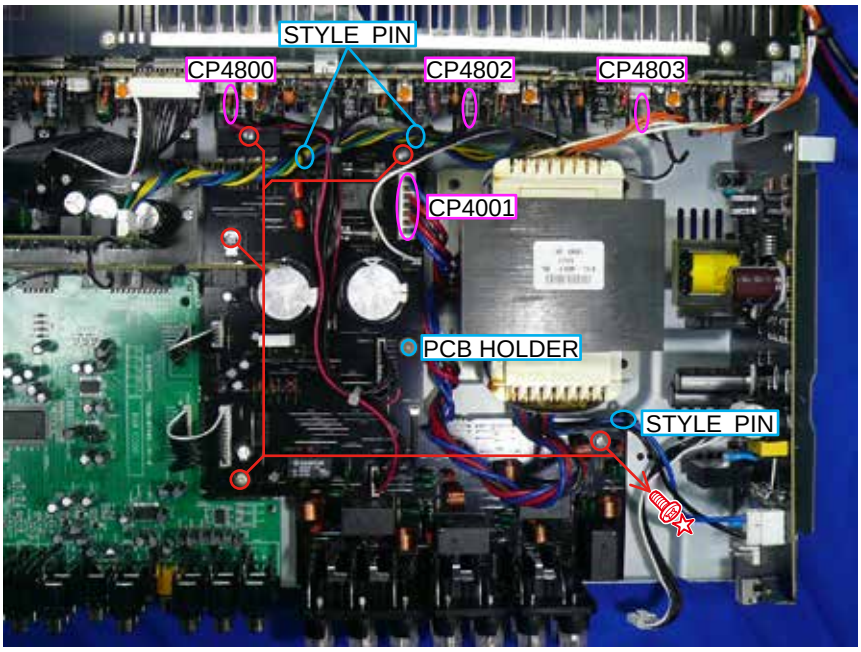
(1) Remove the connector wire. Remove the screws.



6. SPK PCB

Proceeding : TOP COVER → HDMI PCB → AV PCB → SPK PCB

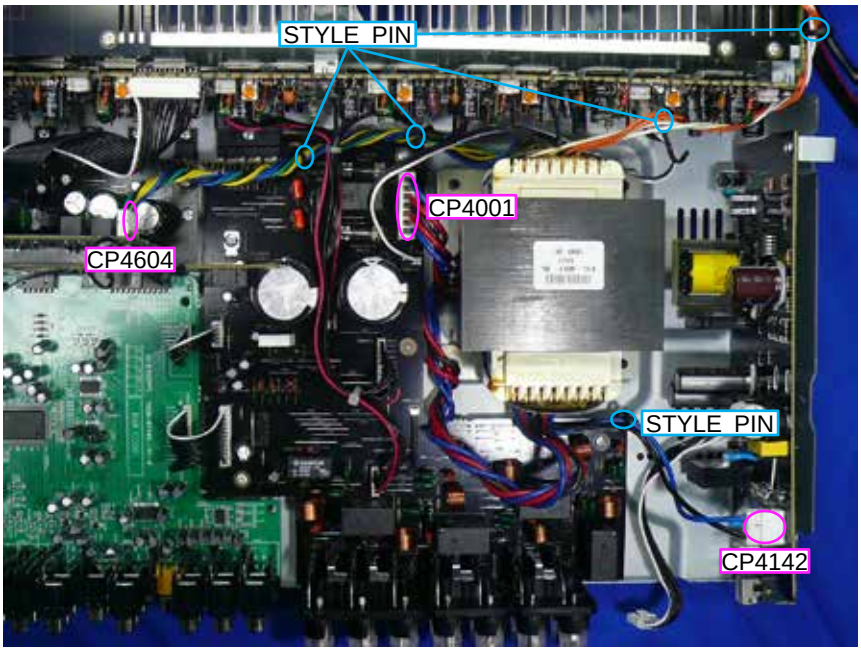
(1) Remove the connector wire and STYLE PIN. Remove the PCB HOLDER and screws.



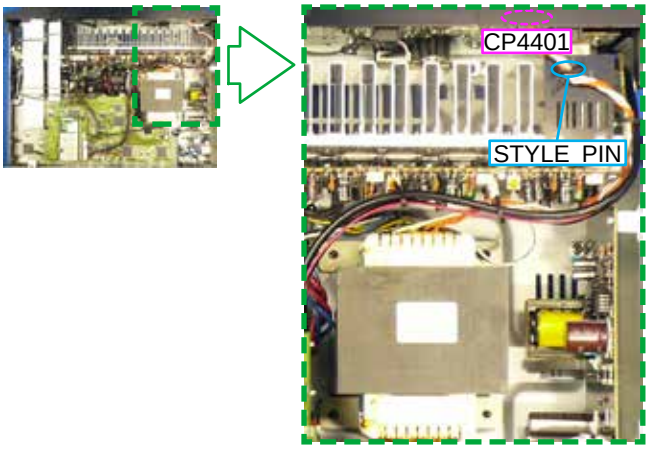
7. POWER TRANS

Proceeding : TOP COVER → HDMI PCB → POWER TRANS

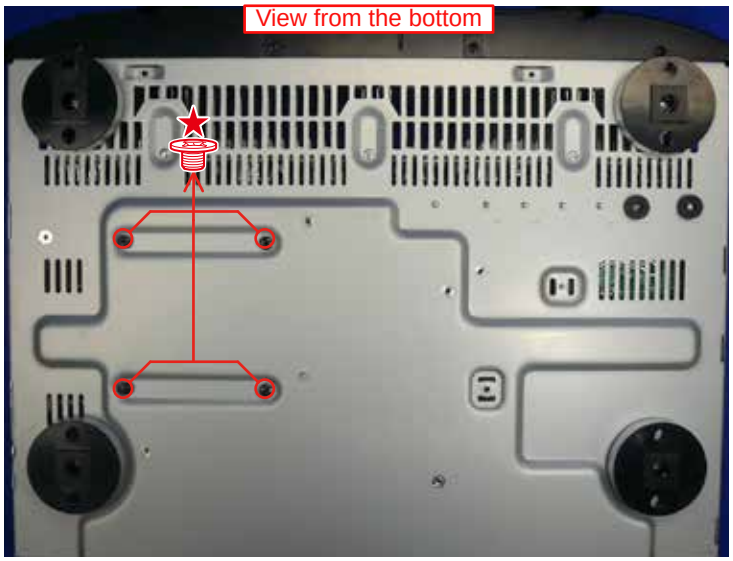
(1) Remove the connector wire and STYLE PIN.



(2) Remove the connector wire and STYLE PIN.



(3) Remove the screws.



NOTE : It will separate and TRANS will fall from SET, if screws is removed.

8. SMPS PCB

Proceeding : TOP COVER → SMPS PCB

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

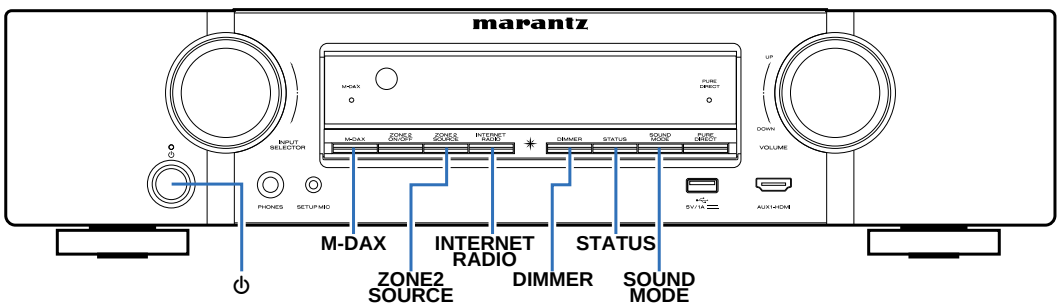
See "**EXPLODED VIEW**" for instructions on how to remove each PCB of the "**SMPS PCB**".

SPECIAL MODE

Special Mode Configuration Buttons

※ No. 1 - 12 : Hold down buttons A, B and C at the same time and press the power button to turn on the power.
※ No. 13 : 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)	DIMMER	STATUS	–	Displays the version of firmware such as the main firmware or DSP, etc. Errors that have occurred are displayed. (See 20 page)
2	Protection History Display Mode	ZONE2 SOURCE	STATUS	-	Displays the protection occurrence history. (See 49 page)
3	Check the Video/Audio pass Mode	↑	↑	↑	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)
4	TUNER step	↑	↑	↑	Enables reception STEP of the ANALOG TUNER to be changed. (See 52 page)
5	Operation INFO	↑	↑	↑	Displays the total operating time of the set, number of times the power was switched on, and number of occurrences of each protection. (See 51 page)
6	User Initialization mode (Settings for the Installer Setup are not initialized.)	M-DAX	ZONE2 SOURCE	-	Initializes backup data. (Settings for the Installer Setup are not initialized.)
7	Factory Initialization mode (Initialization includes settings for the Installer Setup.)	ZONE2 SOURCE	INTERNET RADIO	-	Initializes backup data. (Initialization includes settings for the Installer Setup.)
8	Mode for preventing remote control acceptance	M-DAX	DIMMER	-	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 24 page)
9	PANEL LOCK mode (with Volume)	↑	↑	-	This function prevents reception of all keys/encoders (including VOLUME) other than the power supply button on the Front Panel.
10	PANEL LOCK mode (without Volume)	↑	↑	-	This function prevents reception of all keys/encoders other than the power supply button and VOLUME encoder on the Front Panel.
11	Panel Lock Release	↑	↑	-	Function for Releasing the PANEL LOCK
12	Protection pass mode	DIMMER	STATUS	SOUND MODE	Enables the power to be turned on when protection detection is in the stopped state. (See 53 page)
13	Forced USB All Device Write Mode	DIMMER	SOUND MODE	-	Mode used when this unit cannot be recovered. Forcibly switches this unit to USB update mode. (See 59 page)



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 "**DIMMER**" and "**STATUS**" at the same time and press the power button to turn on the power.
Press the "**STATUS**" 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 → ② Firmware Package Version → ③ Main μ-com → ④ Main 1st Boot Loader → ⑤ DSP ROM → ⑥ Audio PLD → ⑦ Video PLD → ⑧ GUI SFLASH → ⑨ Ethernet 1st Boot Loader, Hardware ID → ⑩ Ethernet 2nd Boot Loader, Rhapsody Flag → ⑪ Ethernet IMAGE → ⑫ Ethernet MAC ADDRESS information → ⑬ BT MAC Address information

① Model destination information :

FLD	N	R	1	6	0	5		U								*
FLD	N	R	1	6	0	5		N								*
FLD	N	R	1	6	0	5		K								*

② Firmware Package Version :

FLD	P	a	c	k	a	g	e					:	*	*	*	*

③ Main μ-com Version :

FLD		M	a	i	n		:	*	*	*	*	#	#	#	#	*

*：Main version, #：Sub version

④ Main 1st Boot Loader :

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

⑤ DSP ROM :

FLD		D	S	P							:	*	*	.	*	*

⑥ Audio PLD :

FLD		A	u	d	i	o		P	L	D	:	*	*	.	*	*

⑦ Video PLD

FLD		V	i	d	e	o		P	L	D	:	*	*	.	*	*

⑧ GUI SFLASH :

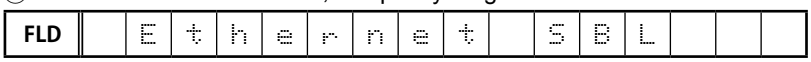
FLD		G	U	I				:	@	@	$	\	*	*	*	*

@：Model code, $：Brand code, \：Region code, *：version

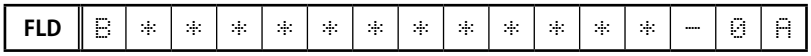
⑨ Ethernet 1st Boot Loader, Hardware ID :

Press the "**STATUS**" button.

⑩ Ethernet 2nd Boot Loader, Rhapsody Flag :

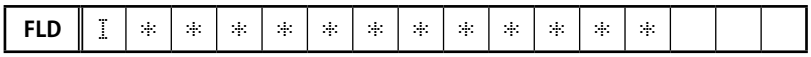


Press the "**STATUS**" button.



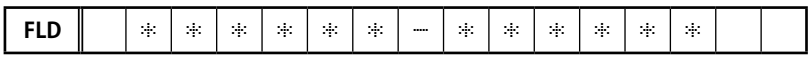
⑪ Ethernet IMAGE :

Press the "**STATUS**" button.

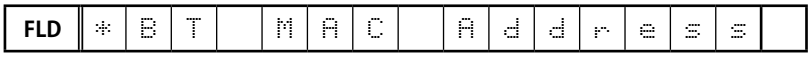


⑫ Ethernet MAC ADDRESS information :

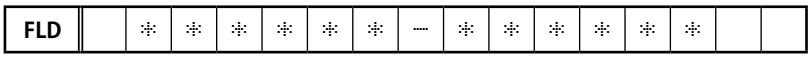
Press the "**STATUS**" button.



⑬ BT MAC ADDRESS information :



Press the "**STATUS**" button.



1.4. Error display

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

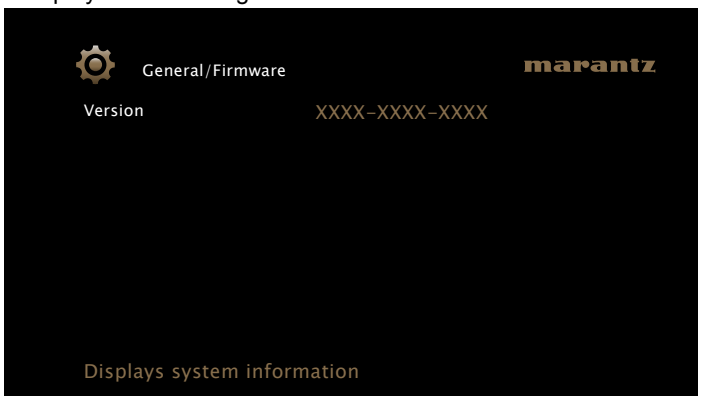
Condition	States	Display	TROUBLE SHOOTING
① Firm Check NG	The model name, brand name and region information written in the firmware are compared to the region settings in the PCB.This error is displayed if the information does not match. " ▲ " or " ▼ " is displayed as the first character if the firmware is not correct (see right section of table).	FIRM ERROR ▲Main :******** ▲DSP :***.** ▲Audio PLD:***.** ▲GUI :********	•Check the resistor for setting region(R1428 / R1431, HDMIPCB). •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(U1020) 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 (U1026, HDMI PCB) and DDR2 (U1028/1029). If there appear to be no problems, U1026 or U1028/1029 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 .	GUI VER. ERROR	•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 (U1040, HDMI 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 (U1024, HDMI 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.

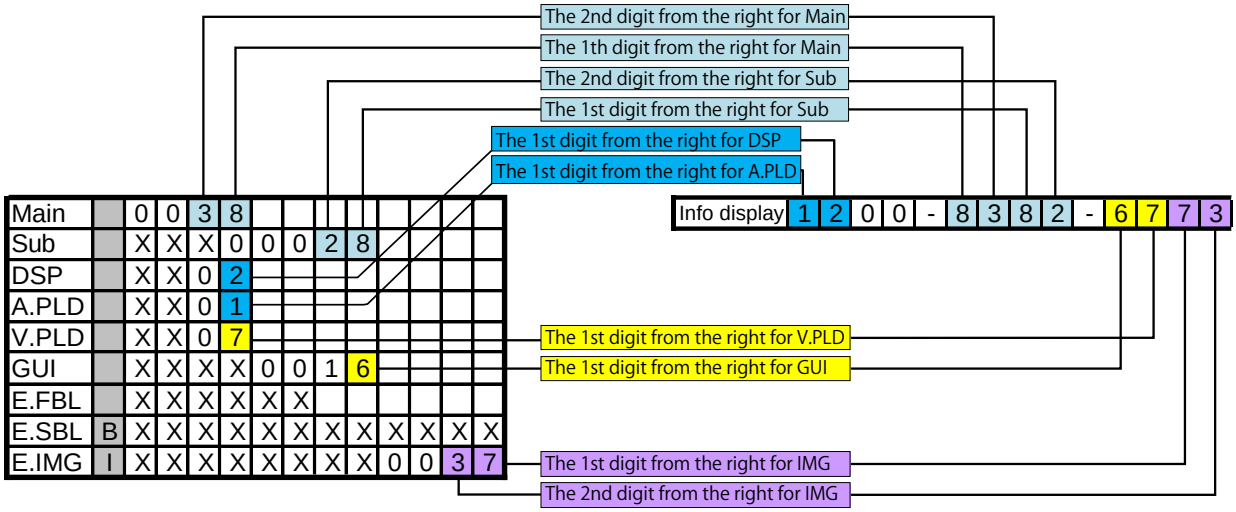
(1) Press the "**SETUP**" button on the remote control.
(2) Select "**General - Information - Firmware**".

The version information is displayed as a 12-digit number as shown in the screenshot below.



GUI Image

This 12-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 12-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.

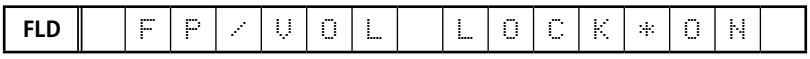
2.2. Starting up

Hold down buttons "**M-DAX**" and "**DIMMER**" at the same time and press the power button to turn on the power.
Select the mode using the button "**INTERNET RADIO**", and press the button "**STATUS**" to commit the selection.

2.3. Displaying and Selecting Each Mode

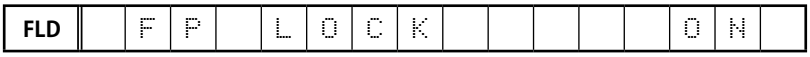
The information shown on the display changes each time the button "**INTERNET RADIO**" is pressed.
Press the button "**STATUS**" to set the currently displayed mode and restart the device.
The On/Off setting for each mode is shown by an asterisk "※".

①



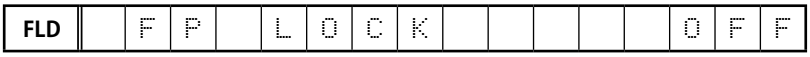
The buttons on the unit and the master volume knob cannot be operated.

②



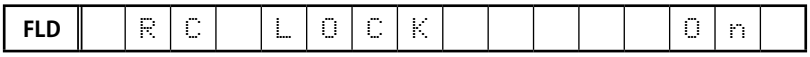
The buttons on the unit cannot be operated.

③



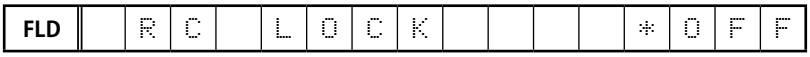
The PANEL LOCK mode is turned off.

④



The device cannot be operated by the remote control.

⑤



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 Operation Info mode, or TUNER STEP mode.

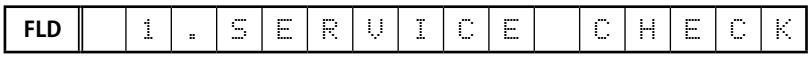
3.2. Starting up

Hold down buttons "**ZONE2 SOURCE**" and "**STATUS**" at the same time and press the power button to turn on the power.
Select the mode using the button "**INTERNET RADIO**", and press the button "**STATUS**" to commit the selection.

3.3. Displaying and Selecting Each Mode

The information shown on the display changes each time the button "**INTERNET RADIO**" is pressed.
Press the button "**STATUS**" to set the currently displayed mode and restart the device.

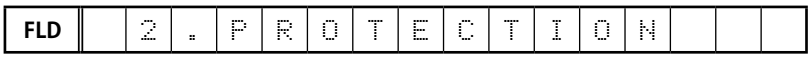
①



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

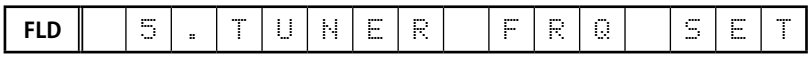


The protection history can be checked.

③

Operation Info for the unit can be checked.

④



Enables reception STEP of the ANALOG TUNER to be changed.

3.3. Canceling the mode

Press the power button to turn off the power.

Personal notes:

3.4. DIAGNOSTIC MODE (Service Path Check Mode)

3.4.1. 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.

3.4.2. Starting up

Hold down buttons "**ZONE2 SOURCE**" and "**STATUS**" at the same time and press the power button to turn on the power. ⚠2
Select the mode using the button "**INTERNET RADIO**", and press the button "**STATUS**" to commit the selection. ⚠2
Select "**1. SERVICE CHECK**" and press the "**STATUS**" button to start the diagnostic mode.
The "**TUNED**", "**STERO**" and "**RDS**" segments are lit in this mode.

3.4.3. Canceling diagnostic mode

Press the power button to turn off the power.

3.4.4. 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	M-DAX	INTERNET RADIO	SLEEP	CURSOR LEFT	CURSOR RIGHT

3.4.5. Video system confirmation items

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

	Paths confirmation item	Display	Settings	Contents of confirmation Remarks
1	Video Convert (Analog or HDMI ⇒ HDMI) **fig.01**	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	・Check of CVBS input ⇒ IP Scaler ⇒ HDMI output. ・Check of CVBS input ⇒ CVBS output. ・Check of Component input ⇒ IP Scaler ⇒ HDMI output. ・Check of Component input ⇒ Component output. ・Check of HDMI input ⇒ IP Scaler ⇒ HDMI output. ・Check of ETHERNET input ⇒ IP Scaler ⇒ HDMI output. （※ The input source can be switched to any source except CBL/SAT.）
2	HDMI pass （MAIN ZONE） **fig.02**	V03:HDMI PASS	Input Source : CBL/SAT Source of Video Convert(IP Scaler) : OFF, All sources MAIN ZONE ON ZONE2 OFF	・Check of HDMI input（MAIN Function）⇒ HDMI output（MAIN） （※ The input source can be switched to any source except CBL/SAT.）
3	HDMI CEC **fig.03**	V04:HDMI CEC	Input Source : CBL/SAT HDMI Control : ON MAIN ZONE ON ZONE2 OFF	・When the power supply of a TV is put in the standby mode, make sure that the power supply of this unit is also put in the standby mode. ・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.）
4	HDMI Audio (Audio: AVR) **fig.04a** **fig.04b**	V05:H.AUDIO-AVR	Input Source : CBL/SAT HDMI Control : OFF HDMI Audio：AVR (if checking the audio output from AVR)	・Check of 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.）
5	HDMI Audio (Audio: TV) **fig.05**	V06:H.AUDIO-TV	HDMI Audio：TV (if checking the audio output from TV)	・Check of HDMI input(PCM , DolbyDigital , DTS) ⇒ HDMI output (audio output from connected TV) （※ The input source can be switched to any source except CBL/SAT.）
6	GUI **fig.06**	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	・Check of GUI display ⇒ HDMI output. （※ The input source can be switched to any source except CBL/SAT.）

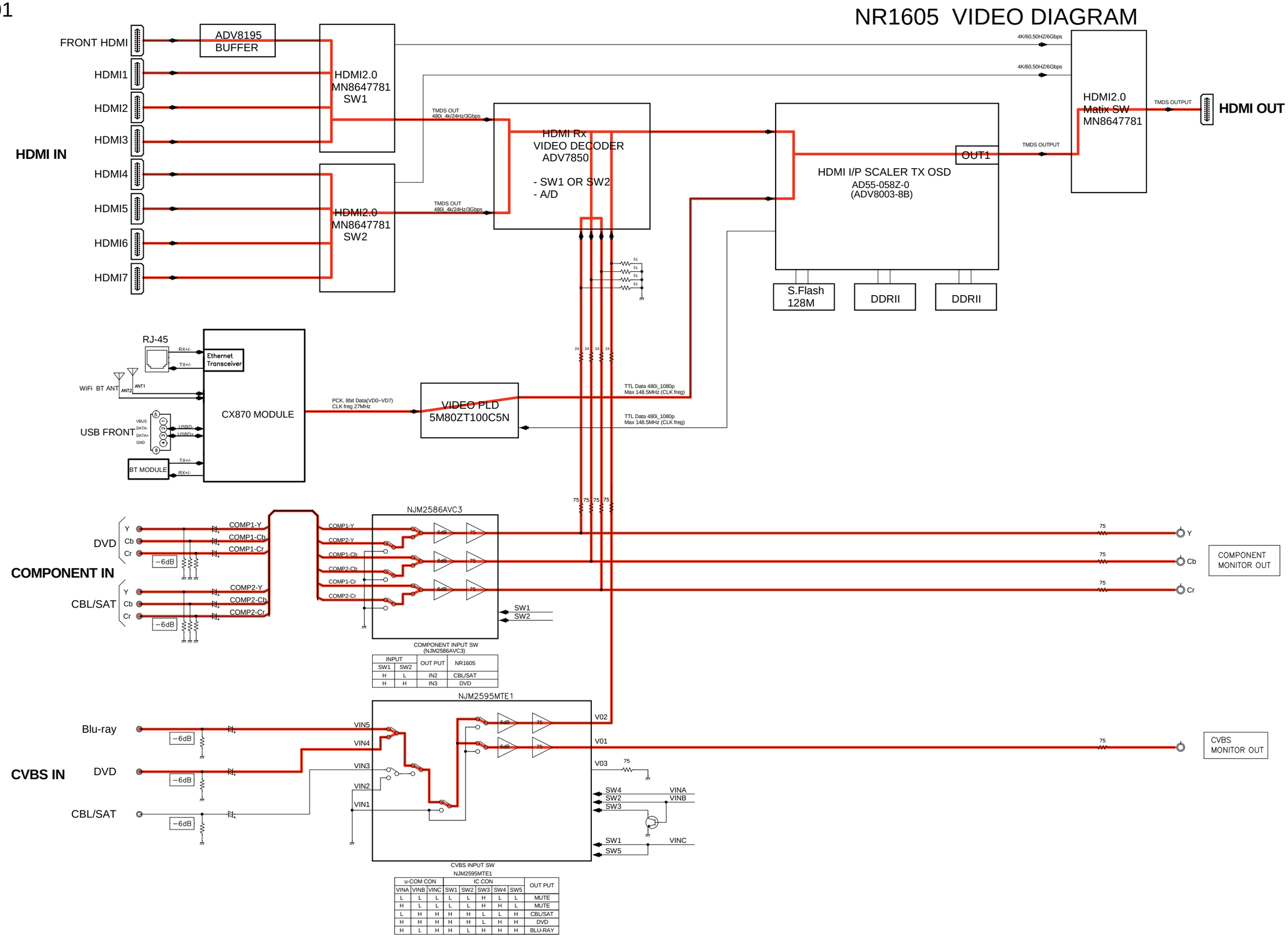
3.4.6. Audio system confirmation items

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

	Paths confirmation item	Display	Settings	Contents of confirmation Remarks
1	Analog (pass) **fig.07**	A01:ANALOG PASS	Input Source: CBL/SAT Input Mode: ANALOG fixed Sound mode: DIRECT Amp assign: Main Only MAIN ZONE: ON ZONE2: OFF	・Check the audio output. ・Check of Analog input ⇒ Speaker output. Front L/R ・Analog input ⇒ Pre OUT Front L/R (※ The input source can be switched to any source except CBL/SAT.)
2	DIGITAL (MAIN) **fig.08a** **fig.08b**	A02:DIGITAL	Input Source : CBL/SAT Input Mode : DIGITAL fixed Sound mode: MULTI CH STEREO Amp assign : Surround Back MAIN ZONE ON ZONE2 OFF	・Check the audio output. ・Check of Digital input ⇒ Speaker output. Front L/R、Center、Surround L/R、Surround Back L/R ・Check of Digital(PCM) input ⇒ Preout output. Front L/R、Subwoofer (※ The input source can be switched to any source except CBL/SAT.)
3	DIGITAL (ZONE2) **fig.09a** **fig.09b**	A03:DIGITAL-Z2	Input Source : NETWORK Input Mode : Auto Sound mode: STEREO Amp assign : ZONE2 MAIN ZONE: ON ZONE2: ON	・Check the audio output. ・Digital(PCM) input ⇒ Speaker output Surround Back (ZONE2) L/R ・Digital(PCM) input ⇒ Preout output ZONE2 L/R (※ Input source, only NETWORK / USB / BT.)
4	HDMI **fig.10a** **fig.10b**	A05:HDMI	Input Source : CBL/SAT Input Mode : HDMI fixed Sound mode: STEREO Amp assign : Surround Back MAIN ZONE: ON ZONE2: OFF	・Check the audio output. ・HDMI input ⇒ Speaker output. Front L/R ・Check of HDMI input ⇒ Preout output. Front L/R ・Switch to the BD input source, check the SPDIF output of about 0.5V of D.Link HD. (※ The input source can be switched to any source except CBL/SAT.)
5	Analog AD (MAIN) **fig.11a** **fig.11b**	A06:AD	Input Source : CBL/SAT Input Mode : Analog fixed Sound mode: MULTI CH STEREO Vol -20dB Amp assign : Surround Back Speaker Config all Speaker=Small / SW=Yes(2ch) MAIN ZONE: ON ZONE2: OFF	・Check the audio output. ・Check of Analog input ⇒ Speaker output. Front L/R、Center、Surround L/R、Surround Back L/R ・Check of Analog input ⇒ Pre OUT. Front 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)
6	Analog Amp Assign (Amp Assign: ZONE2) **fig.12**	A07:ASSIGN-Z2	Input Source : CBL/SAT Input Mode : Auto Sound mode: STEREO Z2 Source : Source Vol -20dB Amp assign : ZONE2 MAIN ZONE: ON ZONE2: ON	・Check the audio output. ・Check of Analog input ⇒ Speaker output. Surround Back(ZONE2) L/R ・Check of Analog input ⇒ Pre OUT. 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)
7	Analog Amp Assign (Amp Assign: Bi-Amp) **fig.13**	A11:ASSIGN-Bi AMP	Input Source : CBL/SAT Input Mode : Auto Sound mode: MULTI CH STEREO Amp assign : Bi-Amp MAIN ZONE ON ZONE2 OFF	・Check the audio output. ・Check of Analog input ⇒ Speaker output. Surround Back L/R (Check of Front output) (※ 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	Front Height **fig.14a** **fig.14b**	A14:FRONT HEIGHT	Input Source : CBL/SAT Input Mode : Auto Sound mode: MULTI CH STEREO Vol -20dB Amp assign : Front Height MAIN ZONE ON ZONE2 OFF	・Check the audio output. ・Check of Analog input ⇒ Speaker output. Surround Back L/R (Check of Front Height output) (※ The input source can be switched to any source except CBL/SAT.) ・Check of PREOUT output. (※ Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used)

DIAGNOSTIC PATH DIAGRAM

fig.01



COMPONENT INPUT SW
(NJM2586AVC3)

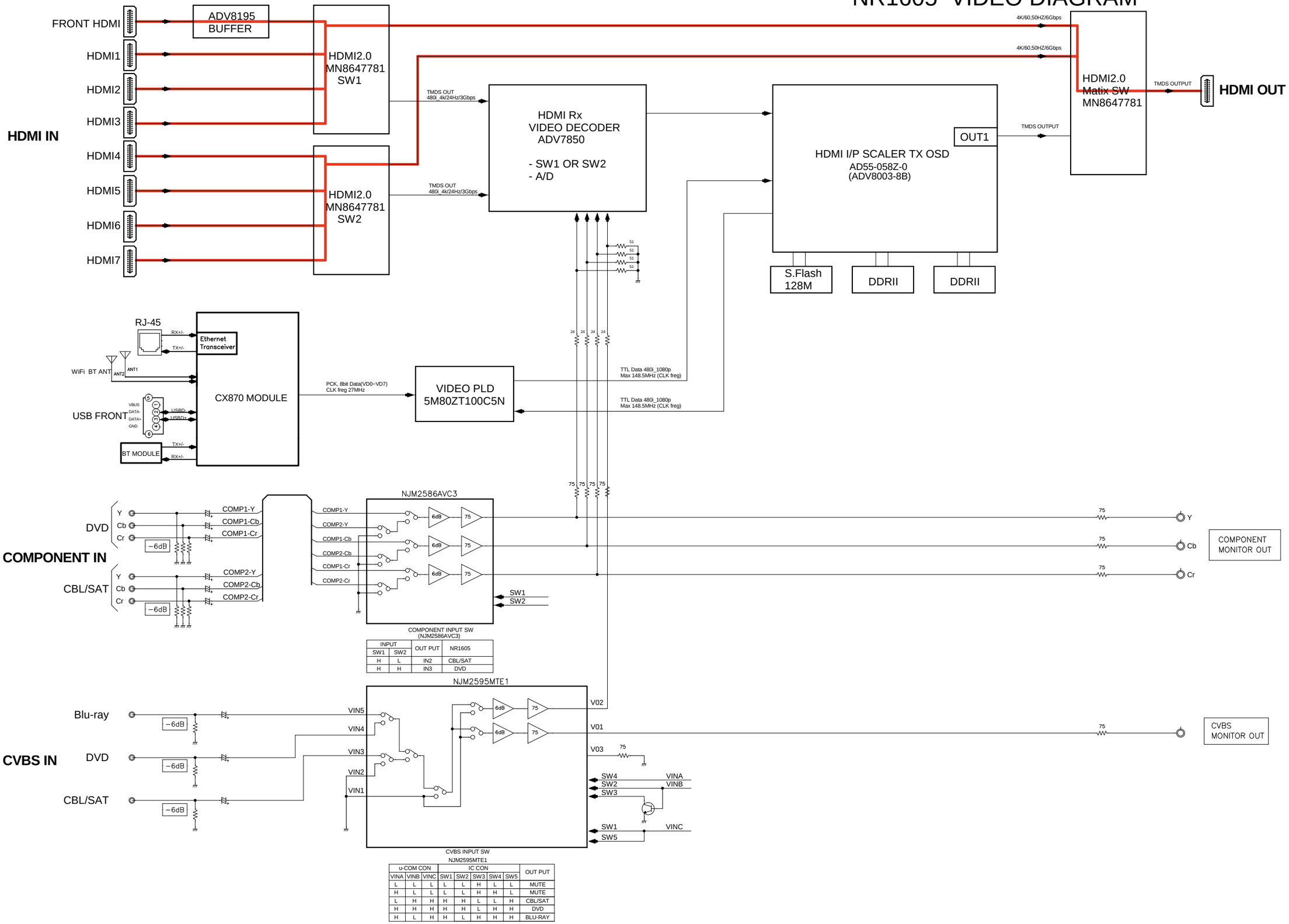
INPUT		OUT PUT	NR1605
SW1	SW2		
H	L	IN2	CBL/SAT
H	H	IN3	DVD

CVBS INPUT SW
NJM2595MTE1

u-COM CON			IC CON					OUT PUT
VINA	VINB	VINC	SW1	SW2	SW3	SW4	SW5	
L	L	L	L	L	H	L	L	MUTE
H	L	L	L	L	H	H	L	MUTE
L	H	H	H	H	L	L	H	CBL/SAT
H	H	H	H	H	L	H	H	DVD
H	L	H	H	L	H	H	H	BLU-RAY

fig.02

NR1605 VIDEO DIAGRAM



COMPONENT INPUT SW
(NJM2586AVC3)

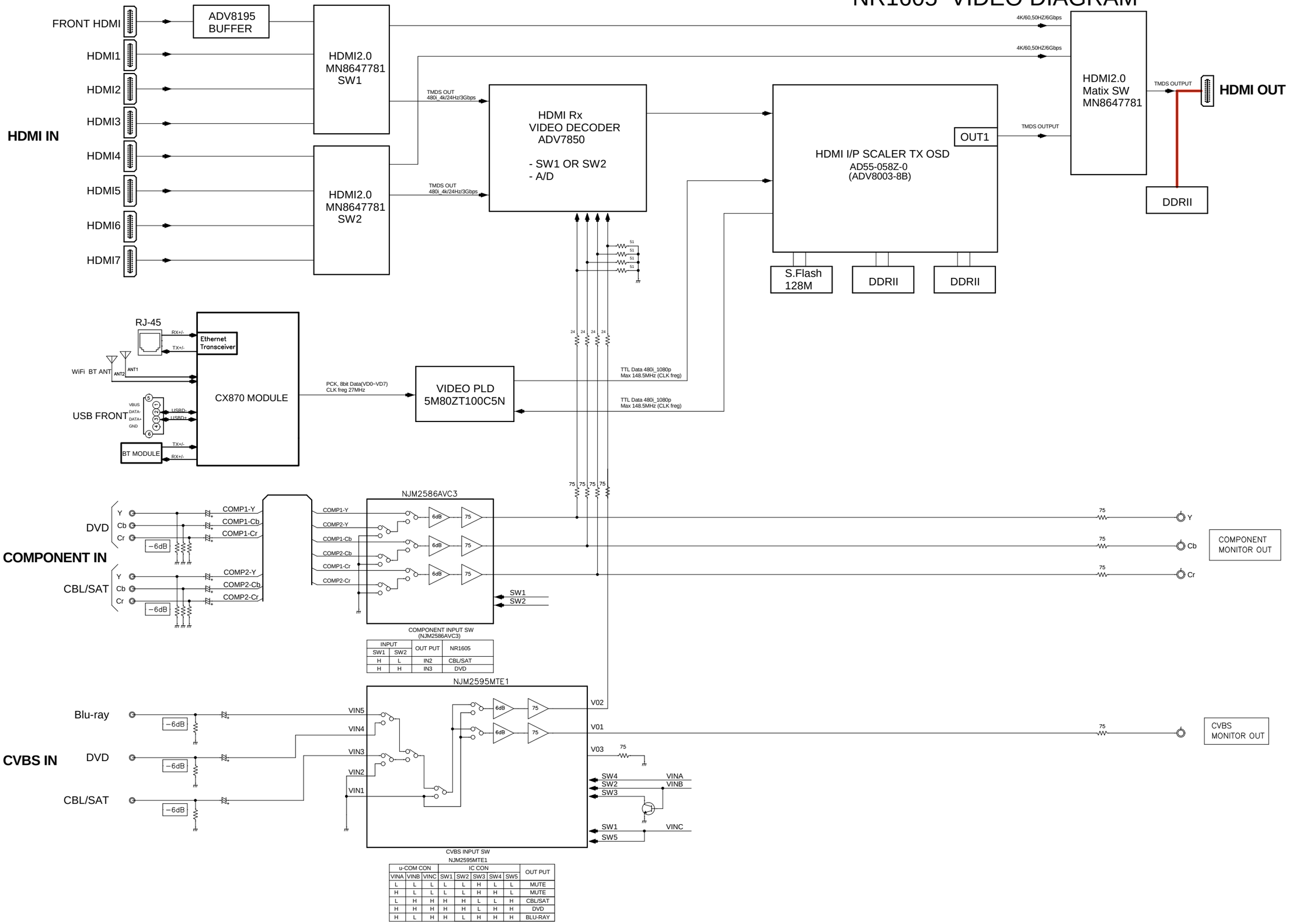
INPUT		OUT PUT	NR1605
SW1	SW2		
H	L	IN2	CBL/SAT
H	H	IN3	DVD

CVBS INPUT SW
NJM2595MTE1

u-COM CON			IC CON					OUT PUT
VINA	VINB	VINC	SW1	SW2	SW3	SW4	SW5	
L	L	L	L	L	H	L	L	MUTE
H	L	L	L	L	H	H	L	MUTE
L	H	H	H	H	L	L	H	CBL/SAT
H	H	H	H	H	L	H	H	DVD
H	L	H	H	L	H	H	H	BLU-RAY

fig.03

NR1605 VIDEO DIAGRAM



COMPONENT INPUT SW
(NJM2586AVC3)

INPUT		OUT PUT	NR1605
SW1	SW2		
H	L	IN2	CBL/SAT
H	H	IN3	DVD

CVBS INPUT SW
NJM2595MTE1

u-COM CON			IC CON					OUT PUT
VINA	VINB	VINC	SW1	SW2	SW3	SW4	SW5	
L	L	L	L	L	H	L	L	MUTE
H	L	L	L	L	H	H	L	MUTE
L	H	H	H	H	L	L	H	CBL/SAT
H	H	H	H	H	L	H	H	DVD
H	L	H	H	L	H	H	H	BLU-RAY

fig.04a

NR1605 DIGITAL AUDIO DIAGRAM

HDMI IN

HDMI OUT1

5M80ZT100C5N
AUDIO PLD

OPEN

DIGITAL IN

TO R2A15218FP 2/6 E3

TO R2A15218FP 2/6 B4

TO R2A15218FP 2/6 I3

fig.04b

NR1605 ANALOG AUDIO DIAGRAM

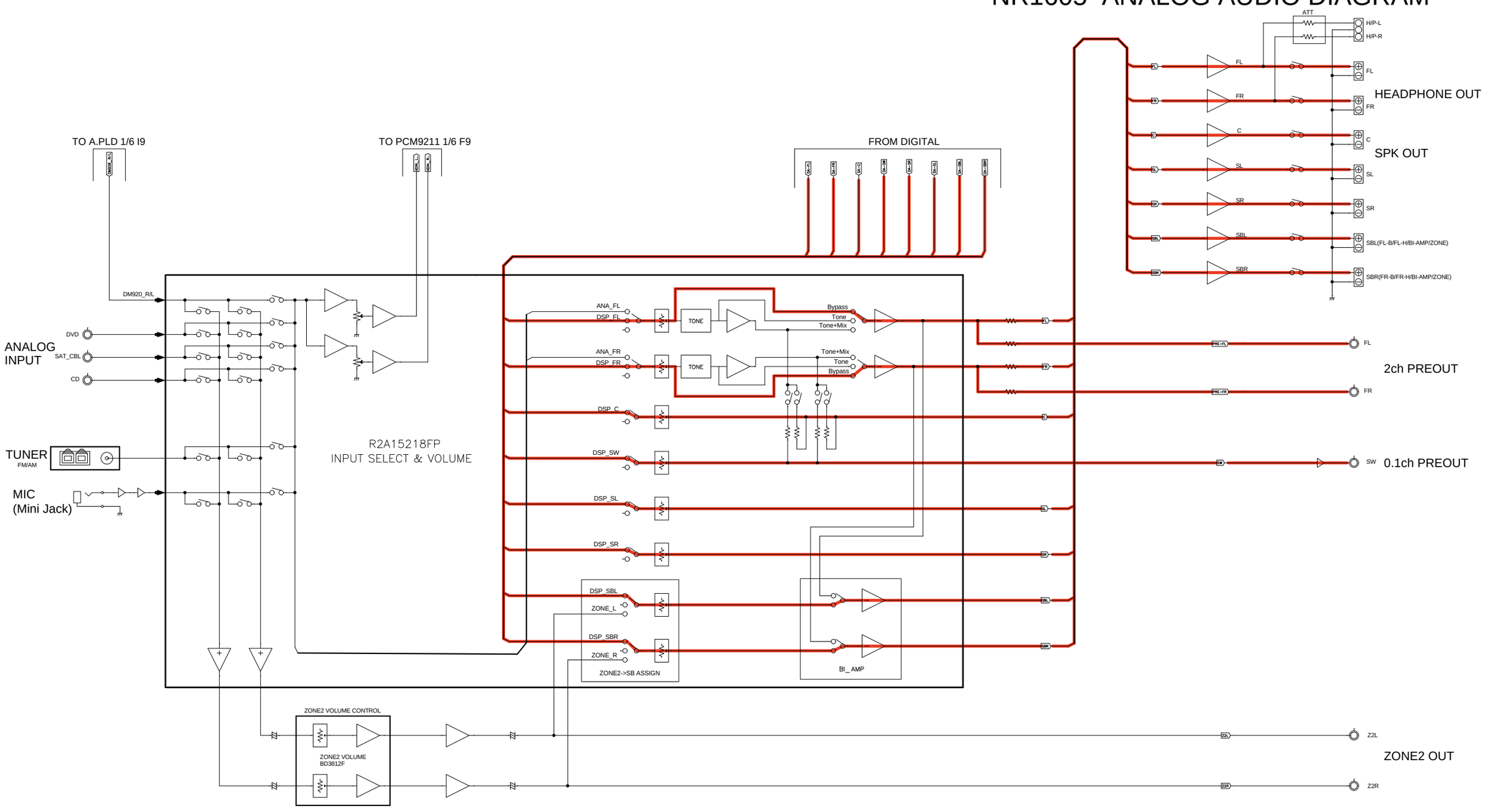


fig.05

NR1605 DIGITAL AUDIO DIAGRAM

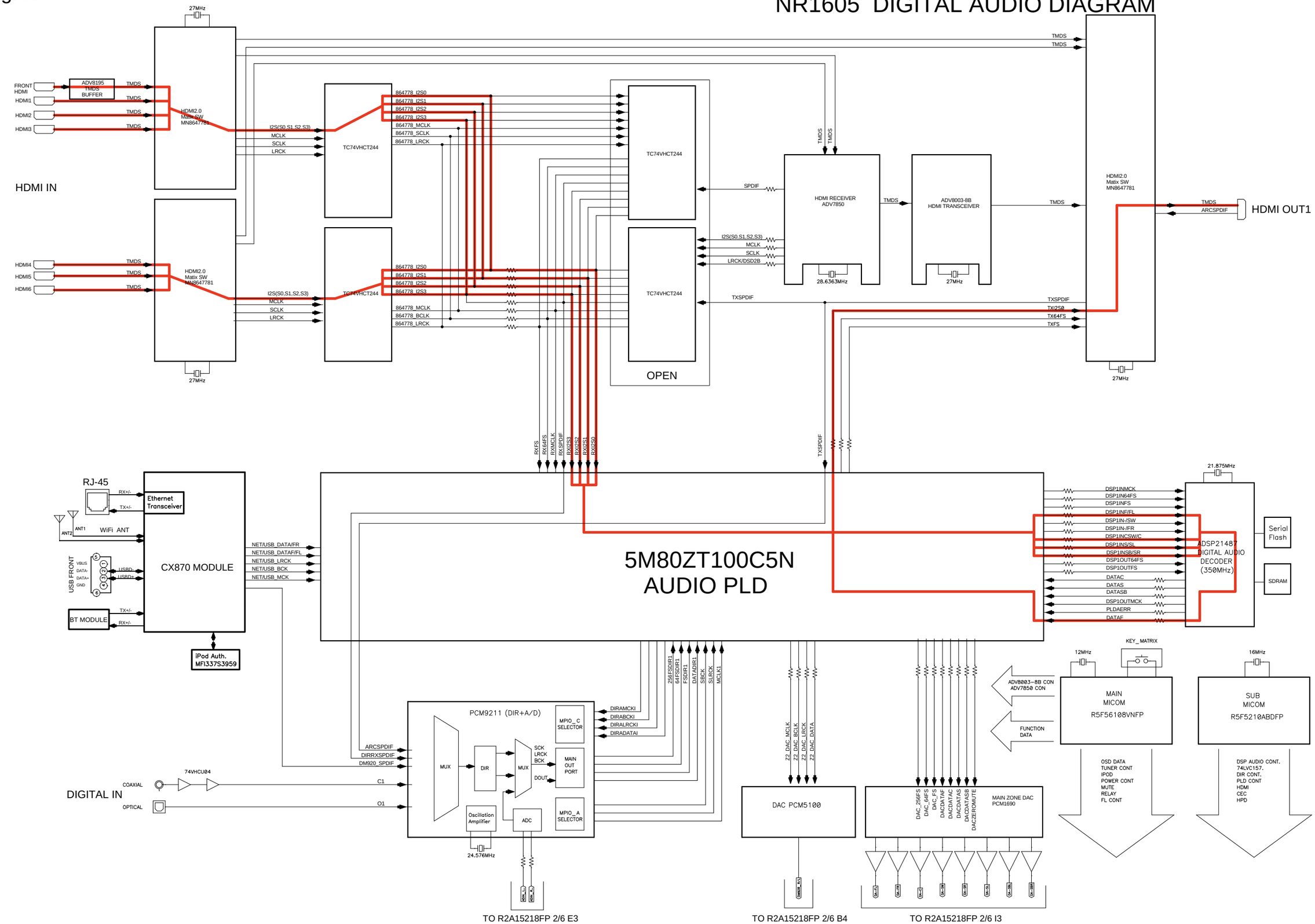
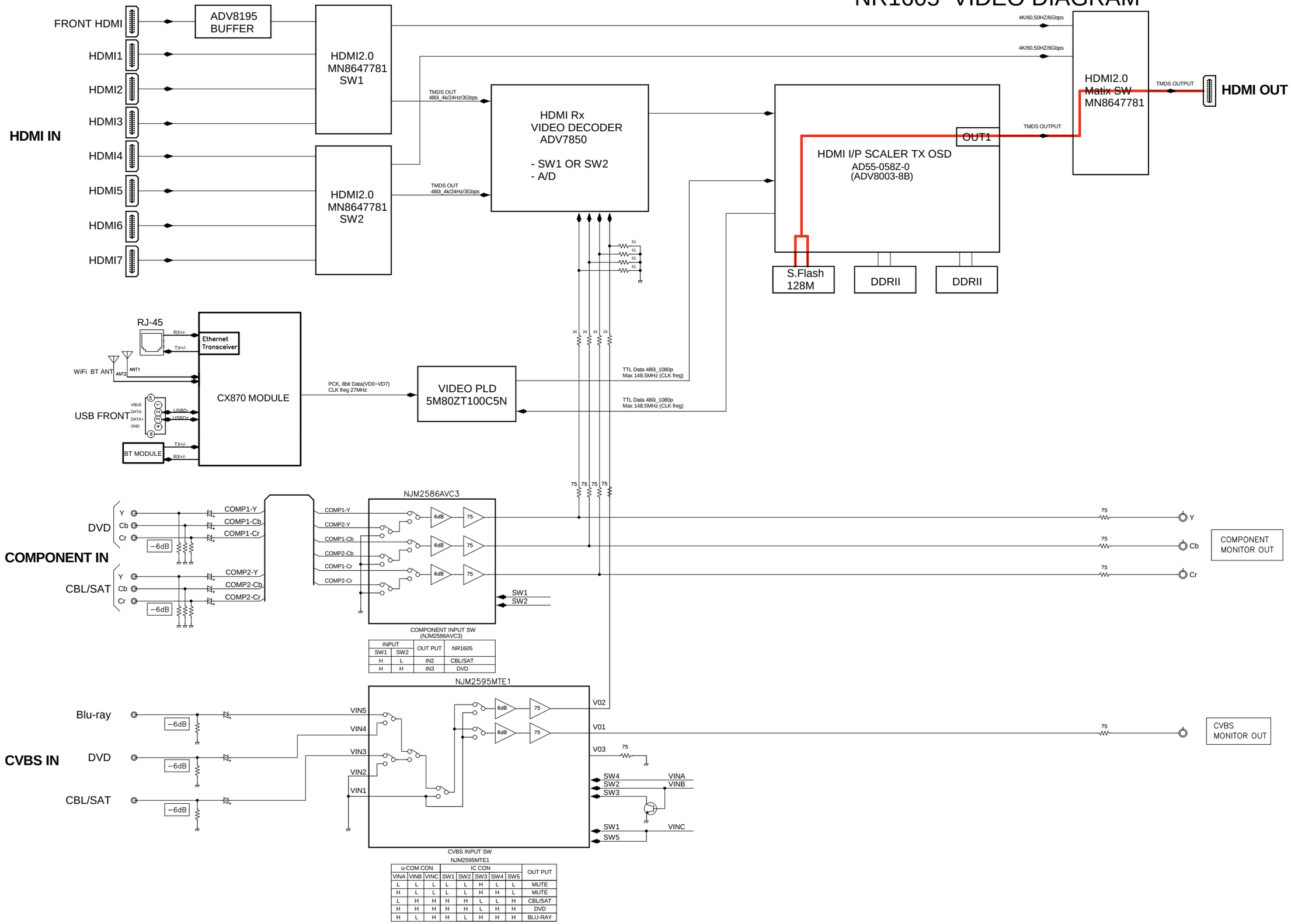


fig.06

NR1605 VIDEO DIAGRAM



COMPONENT INPUT SW
(NJM2586AVC3)

INPUT		OUT PUT	NR1605
SW1	SW2		
H	L	IN2	CBL/SAT
H	H	IN3	DVD

CVBS INPUT SW
NJM2595MTE1

u-COM CON			IC CON					OUT PUT
VINA	VINB	VINC	SW1	SW2	SW3	SW4	SW5	
L	L	L	L	L	H	L	L	MUTE
H	L	L	L	L	H	H	L	MUTE
L	H	H	H	H	L	L	H	CBL/SAT
H	H	H	H	H	L	H	H	DVD
H	L	H	H	L	H	H	H	BLU-RAY

fig.07

NR1605 ANALOG AUDIO DIAGRAM

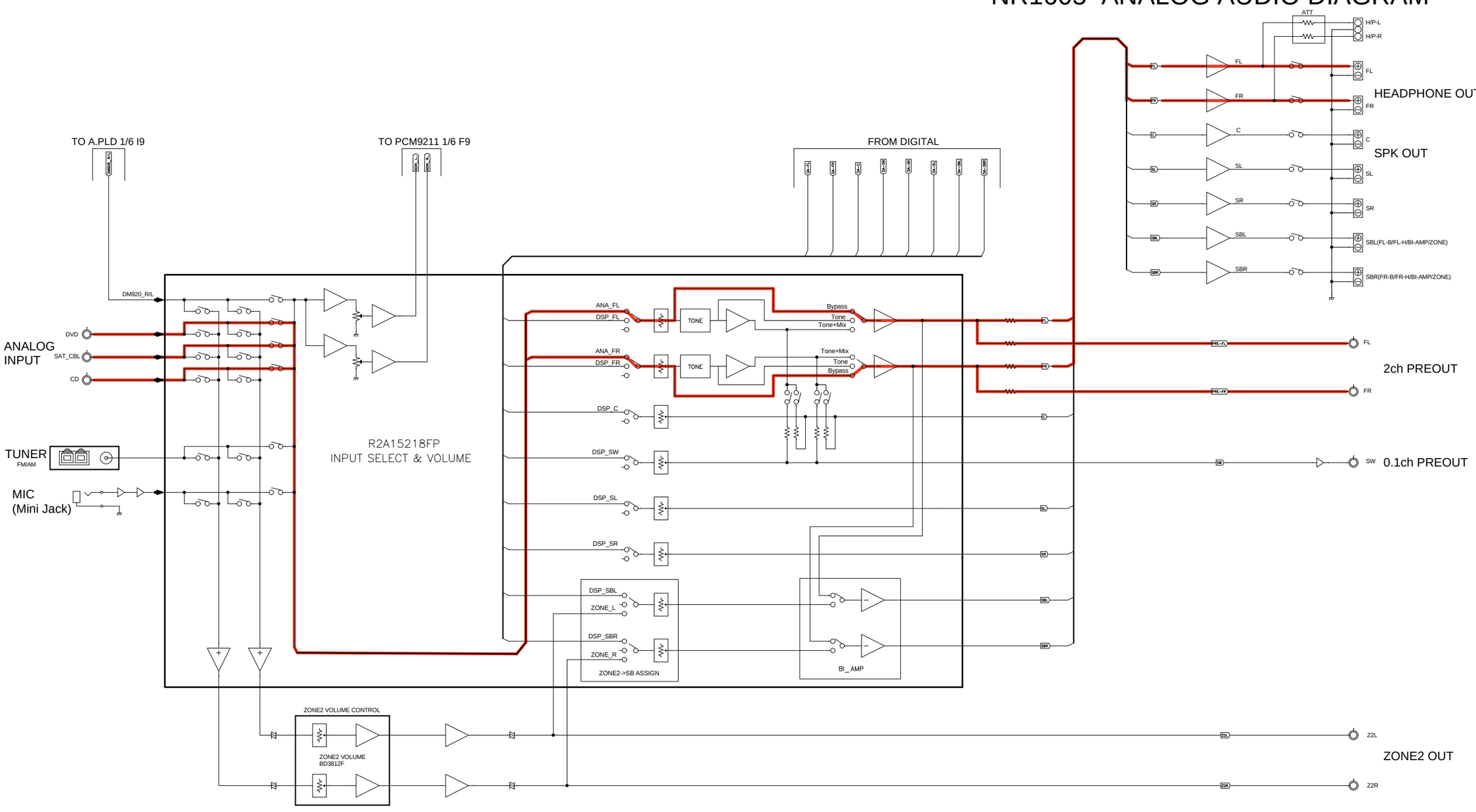


fig.08a

NR1605 DIGITAL AUDIO DIAGRAM

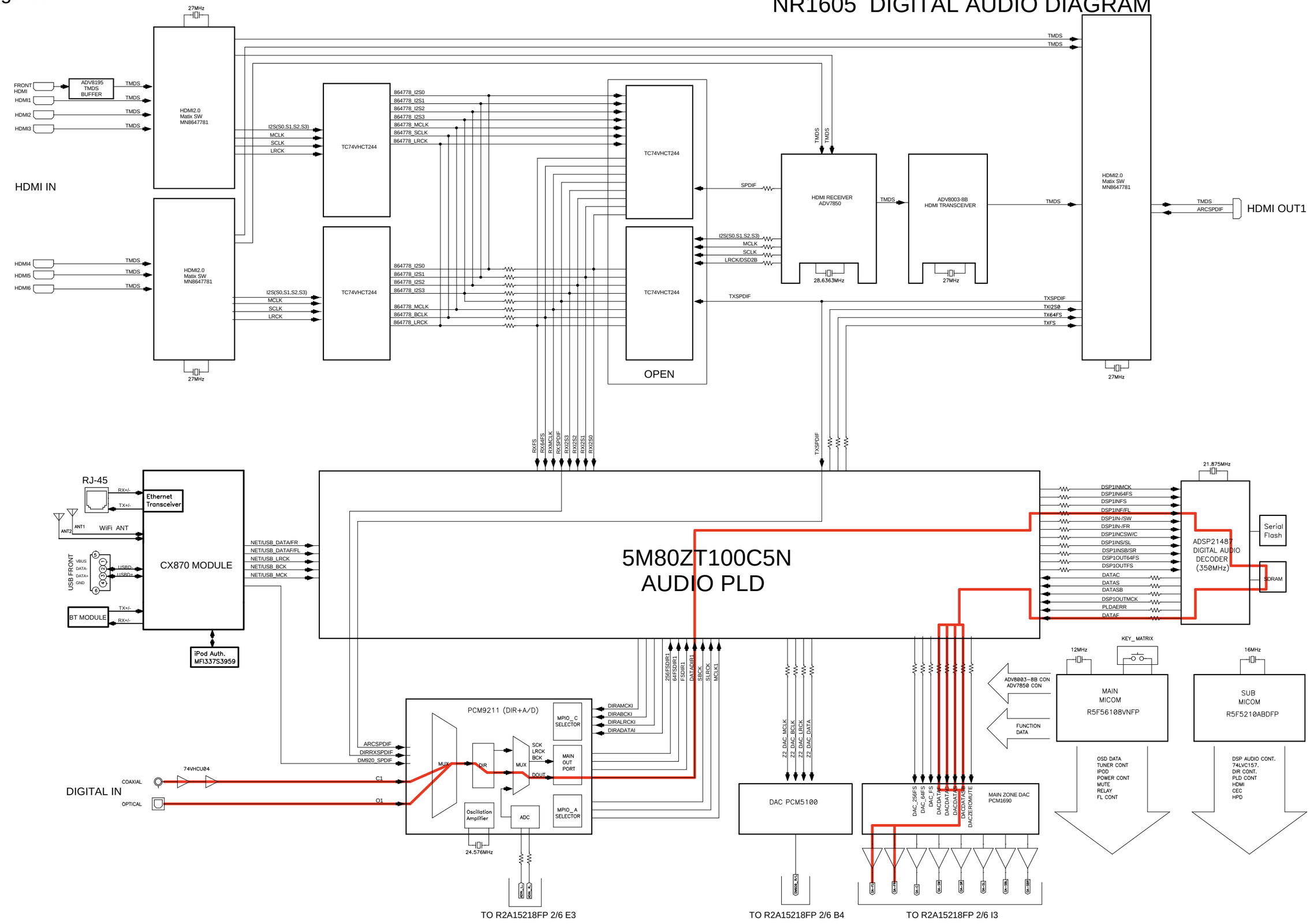


fig.08b

NR1605 ANALOG AUDIO DIAGRAM

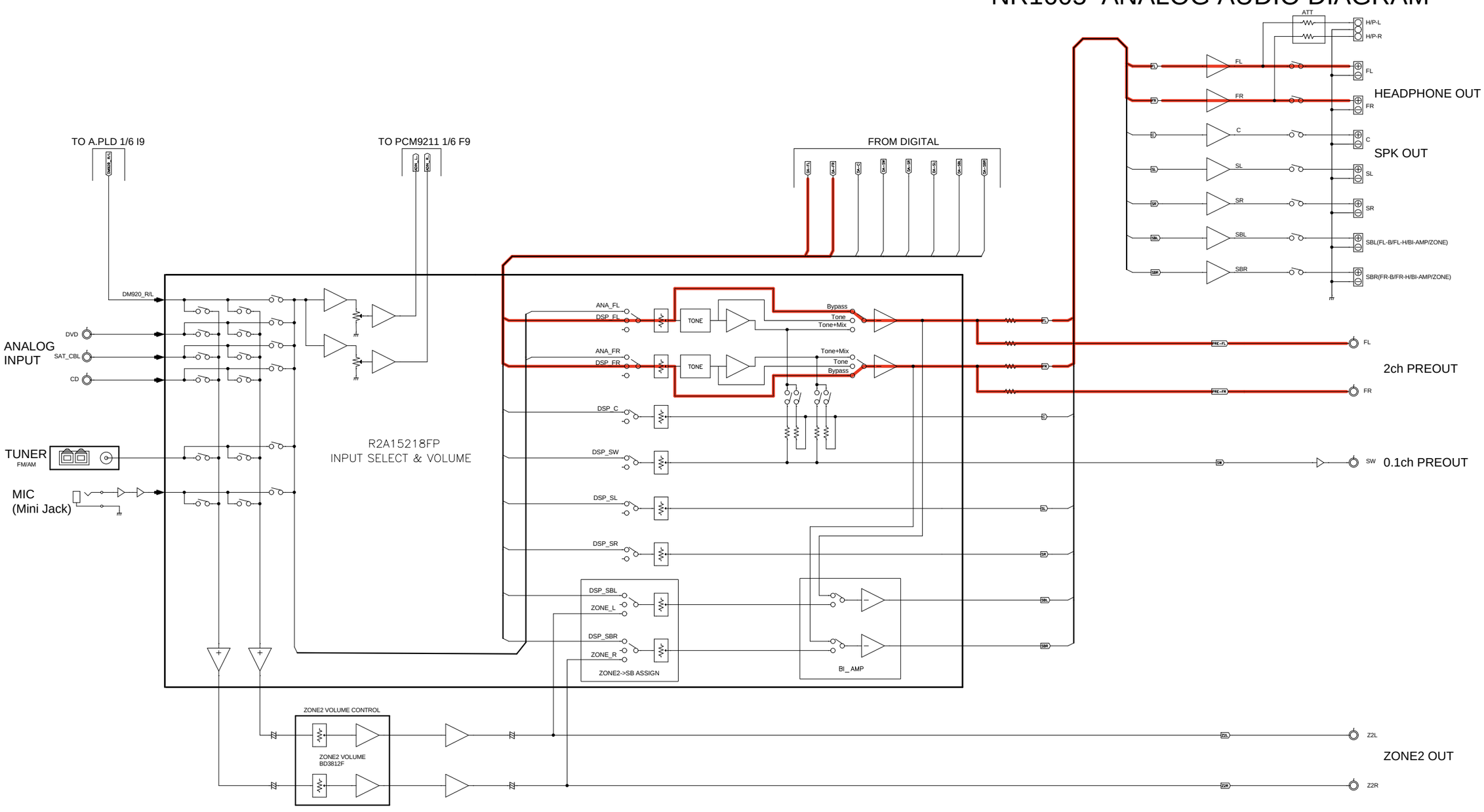


fig.09a

NR1605 DIGITAL AUDIO DIAGRAM

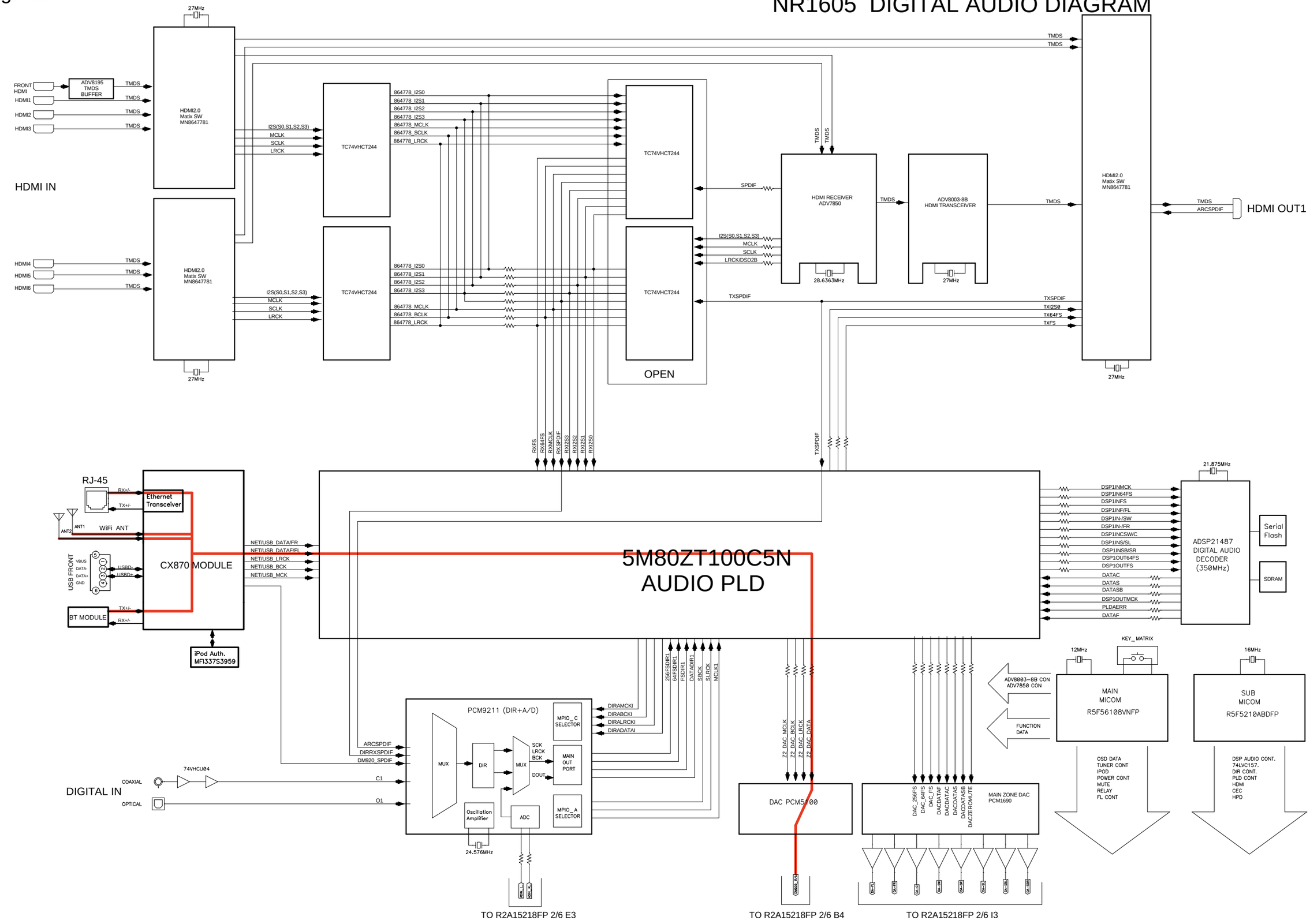


fig.09b

NR1605 ANALOG AUDIO DIAGRAM

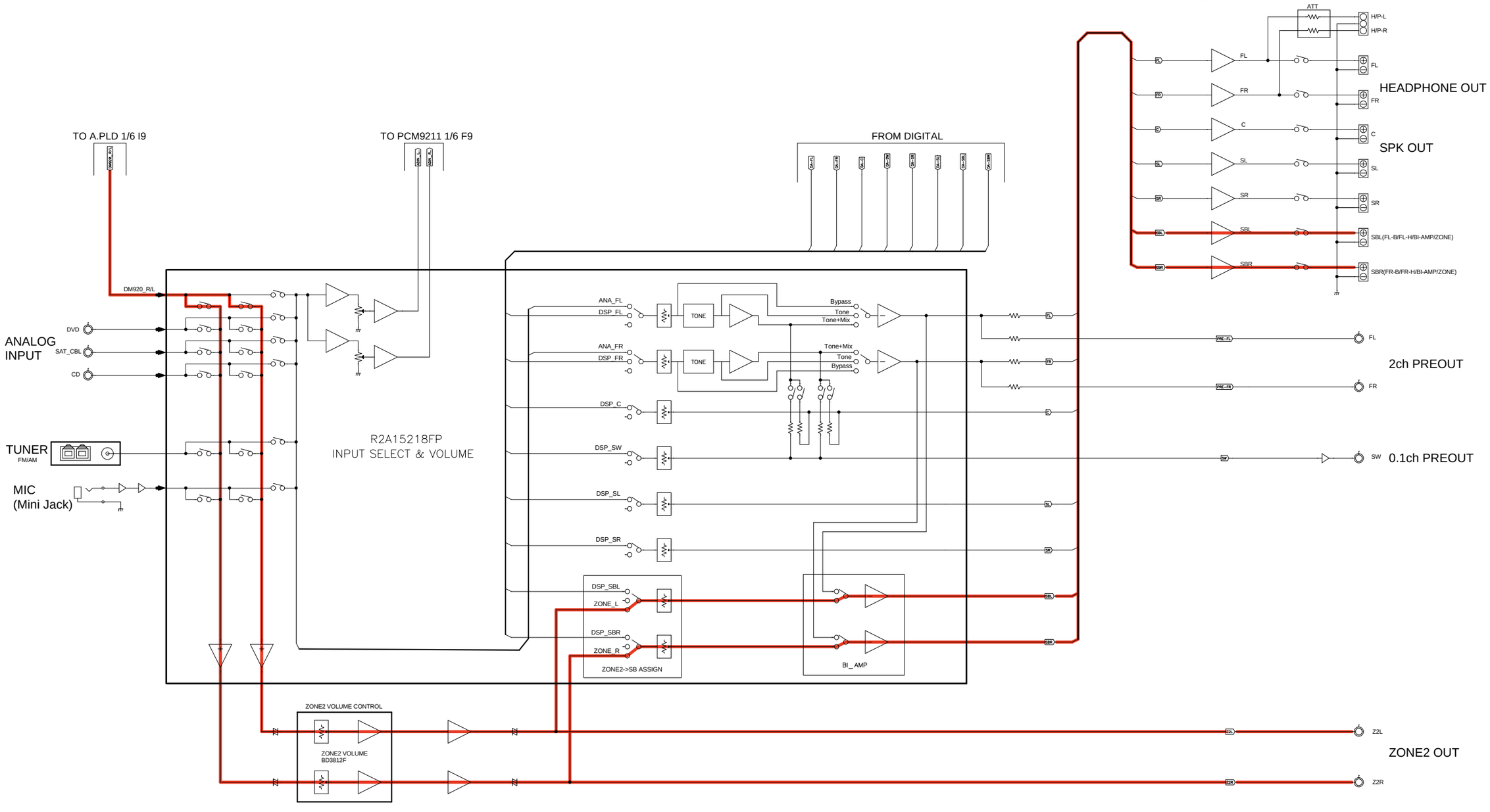


fig.10a

NR1605 DIGITAL AUDIO DIAGRAM

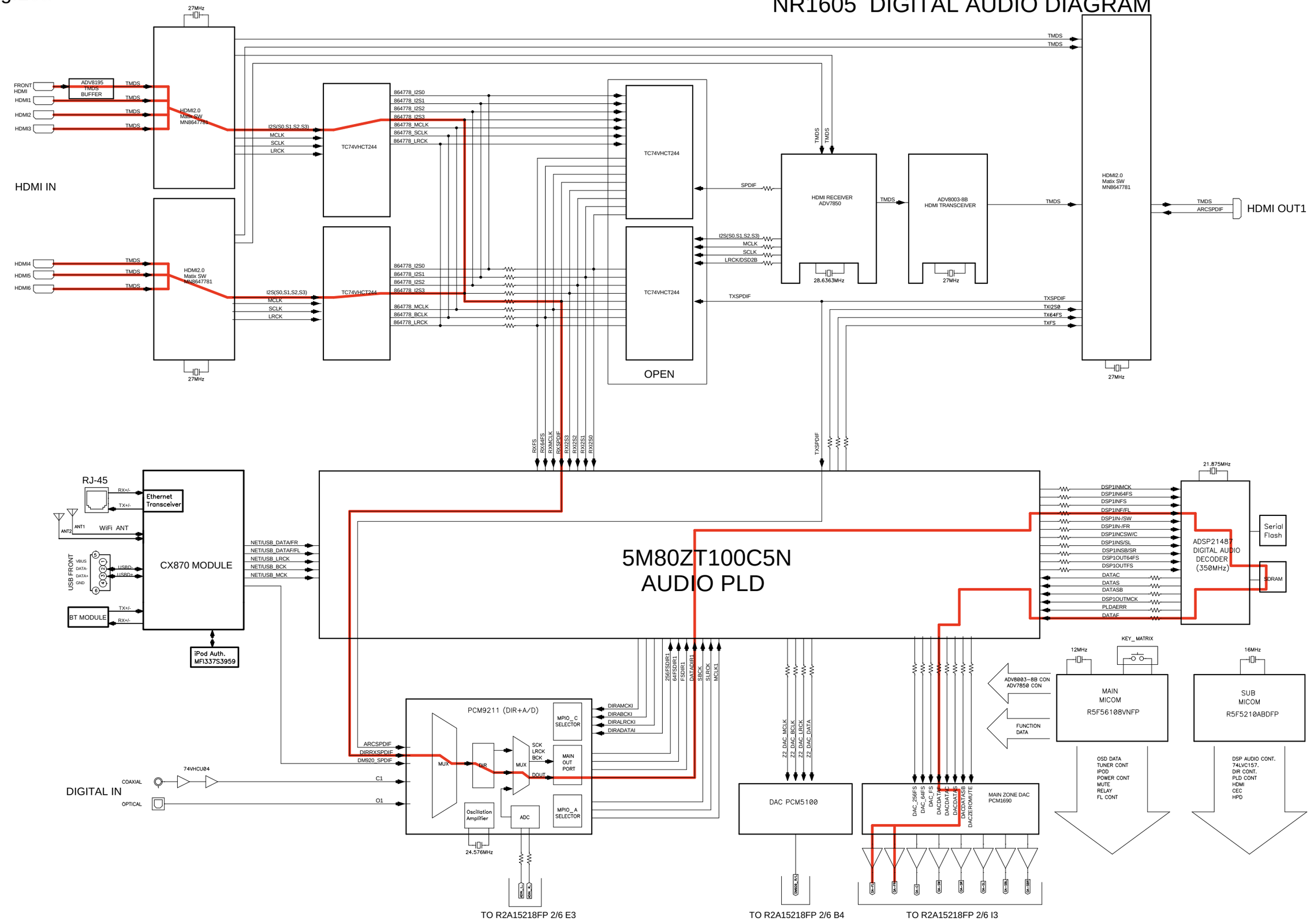


fig.10b

NR1605 ANALOG AUDIO DIAGRAM

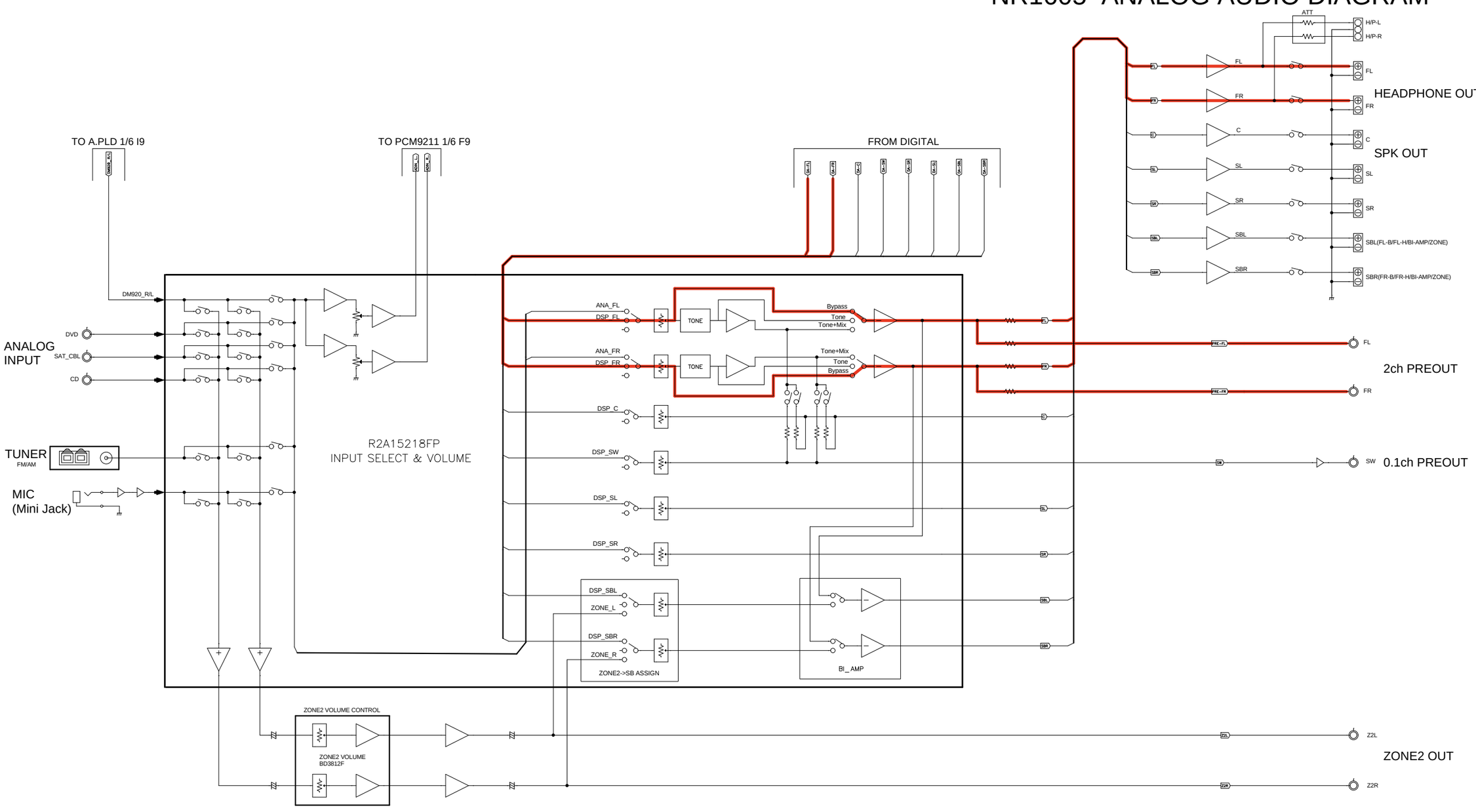


fig.11a

NR1605 DIGITAL AUDIO DIAGRAM

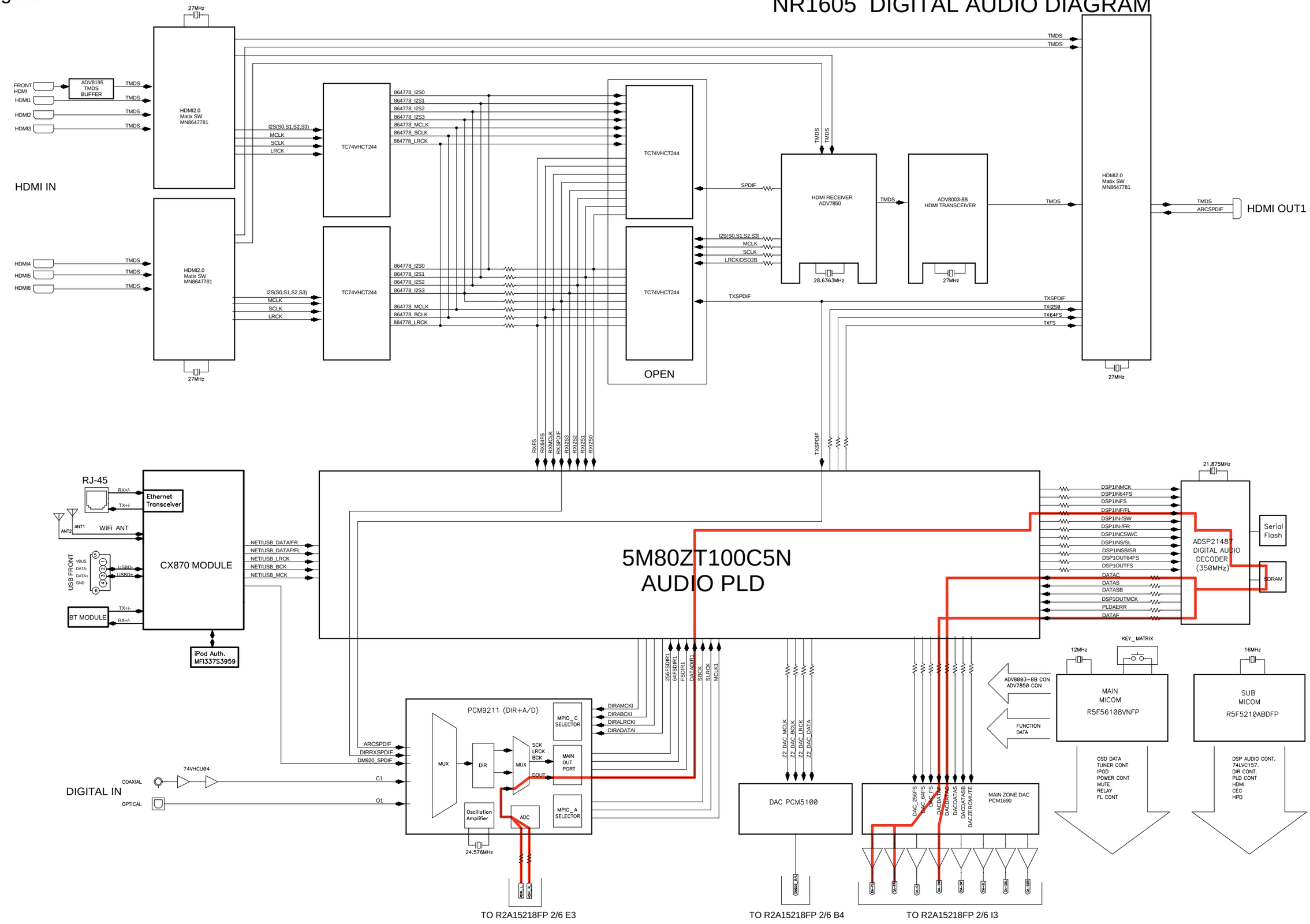


fig.11b

NR1605 ANALOG AUDIO DIAGRAM

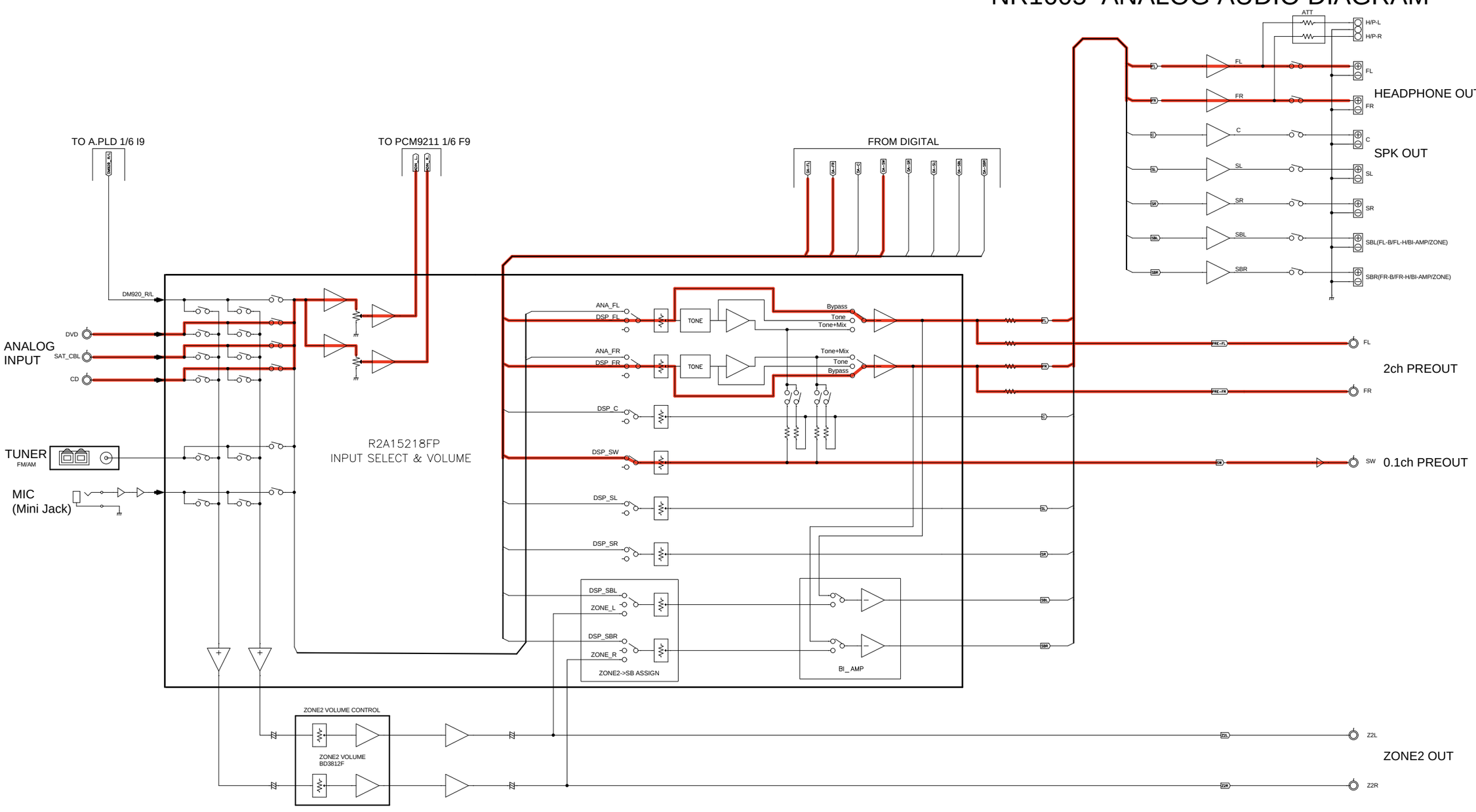


fig.12

NR1605 ANALOG AUDIO DIAGRAM

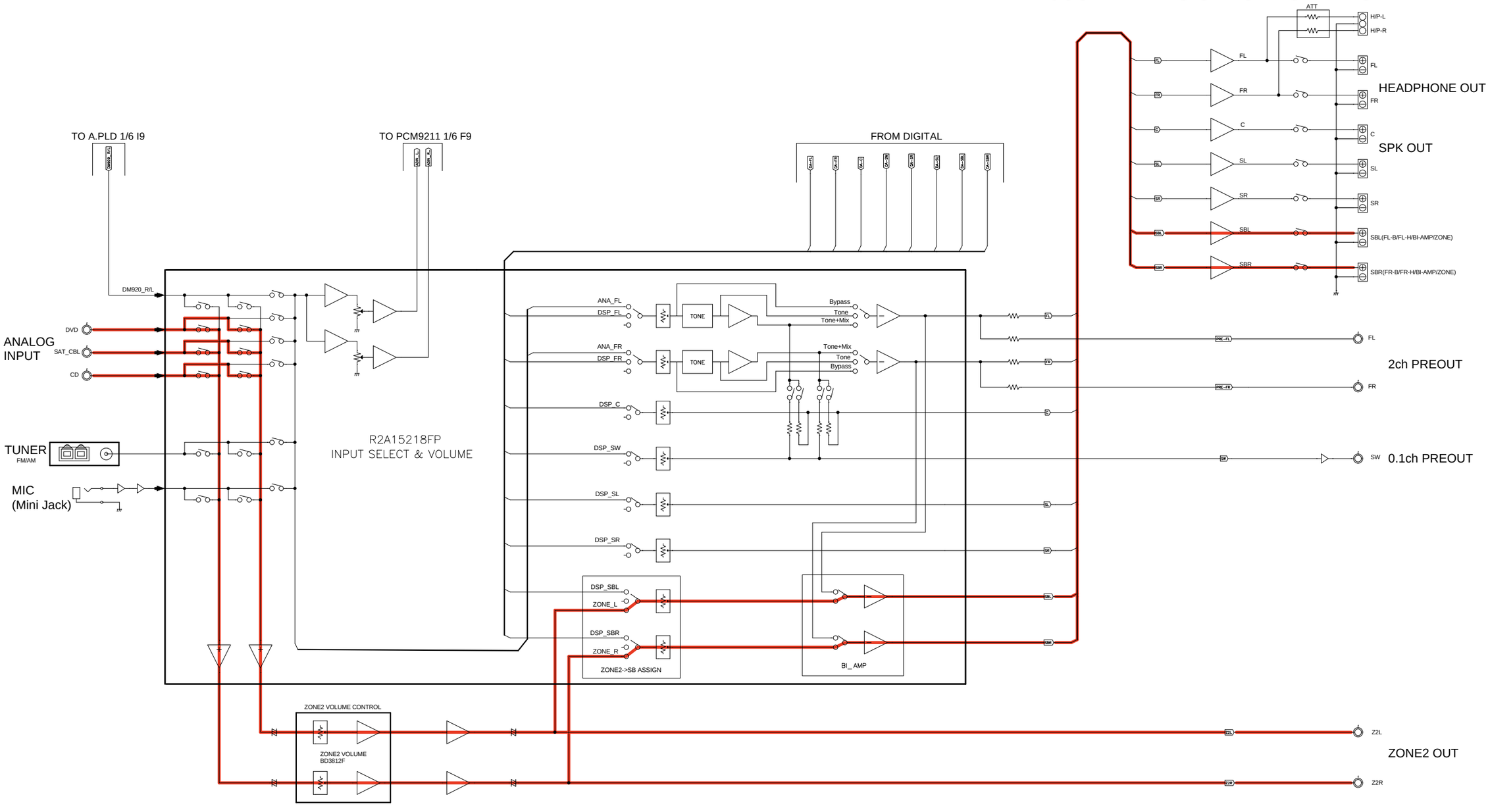


fig.13

NR1605 ANALOG AUDIO DIAGRAM

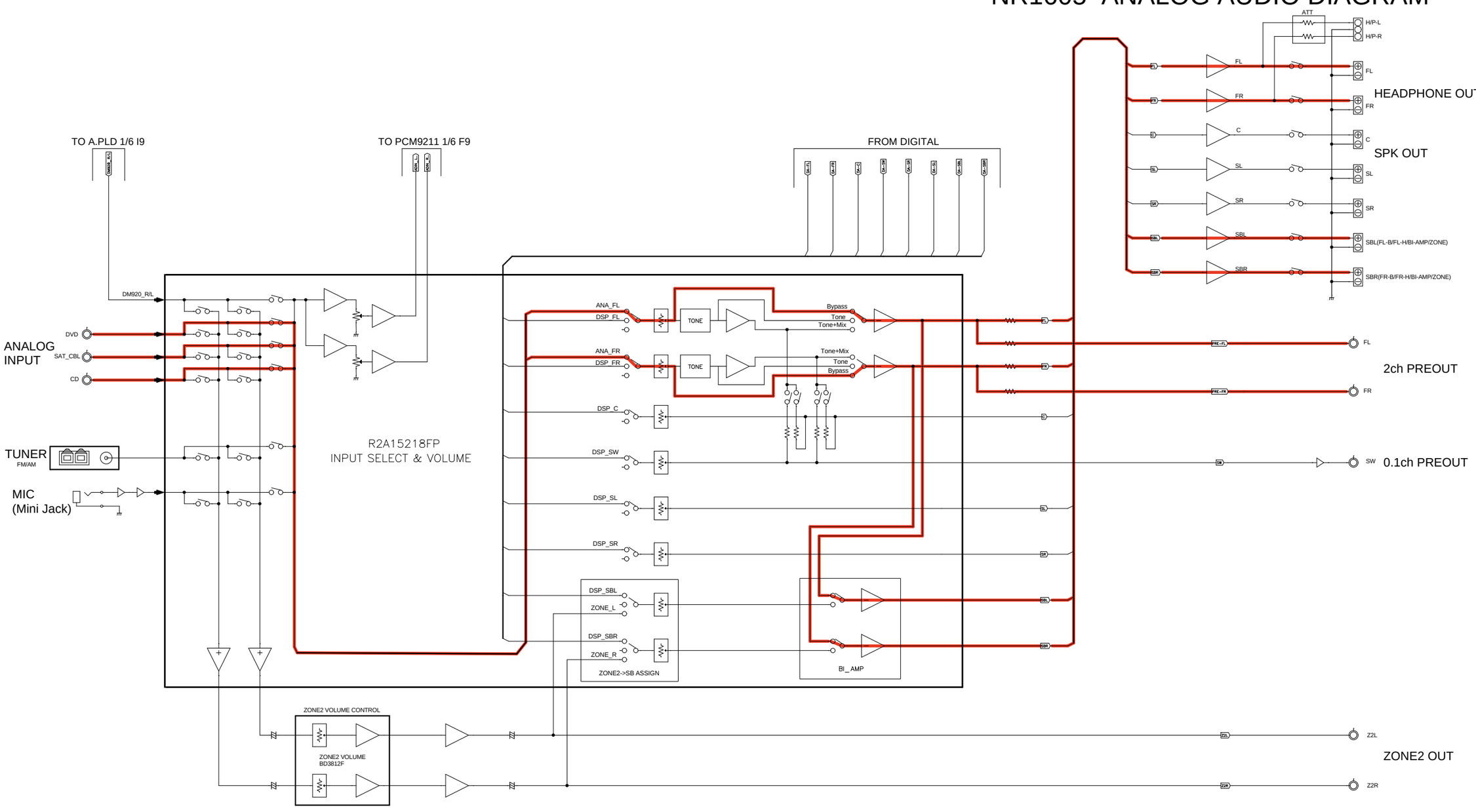


fig.14a

NR1605 DIGITAL AUDIO DIAGRAM

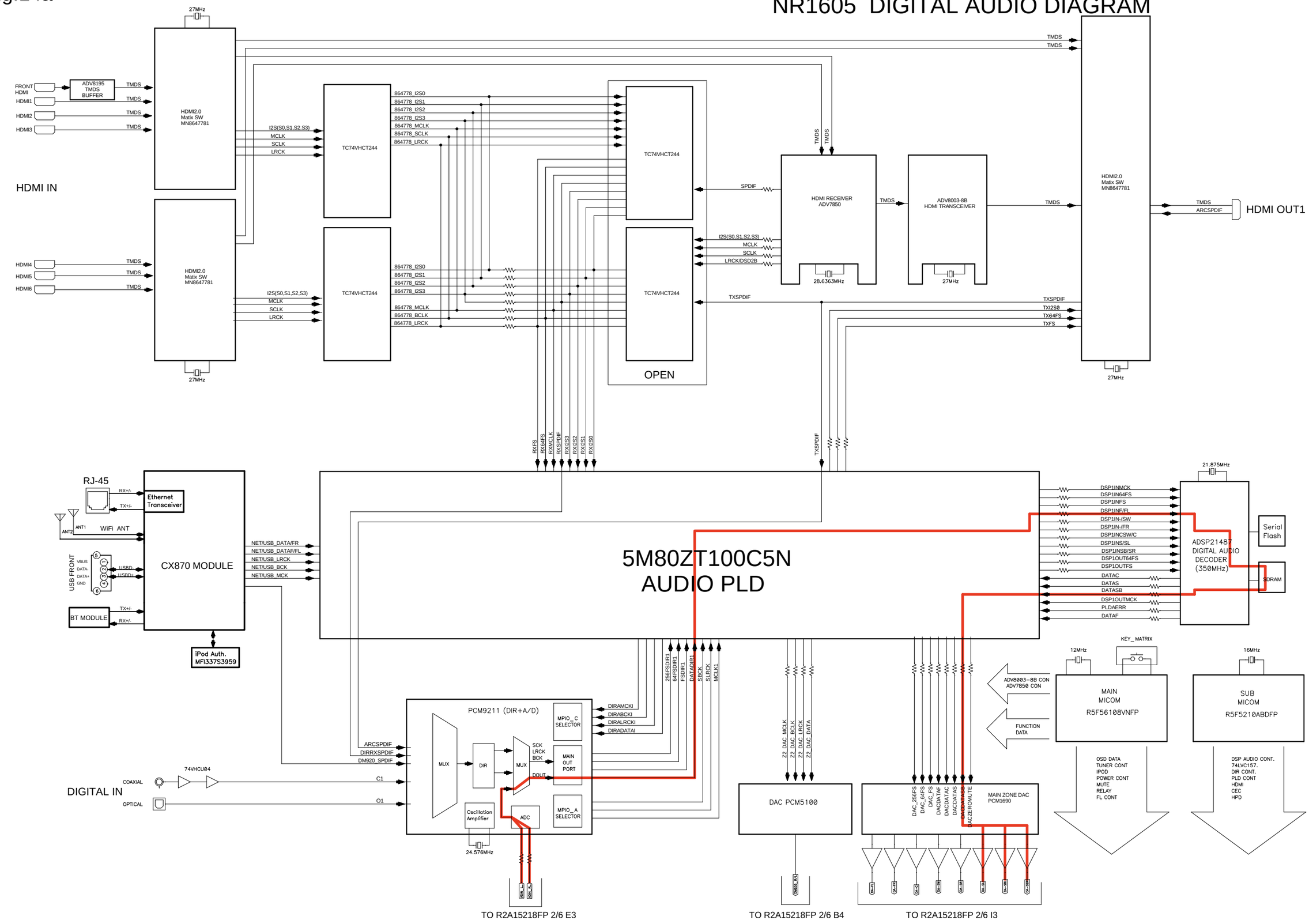
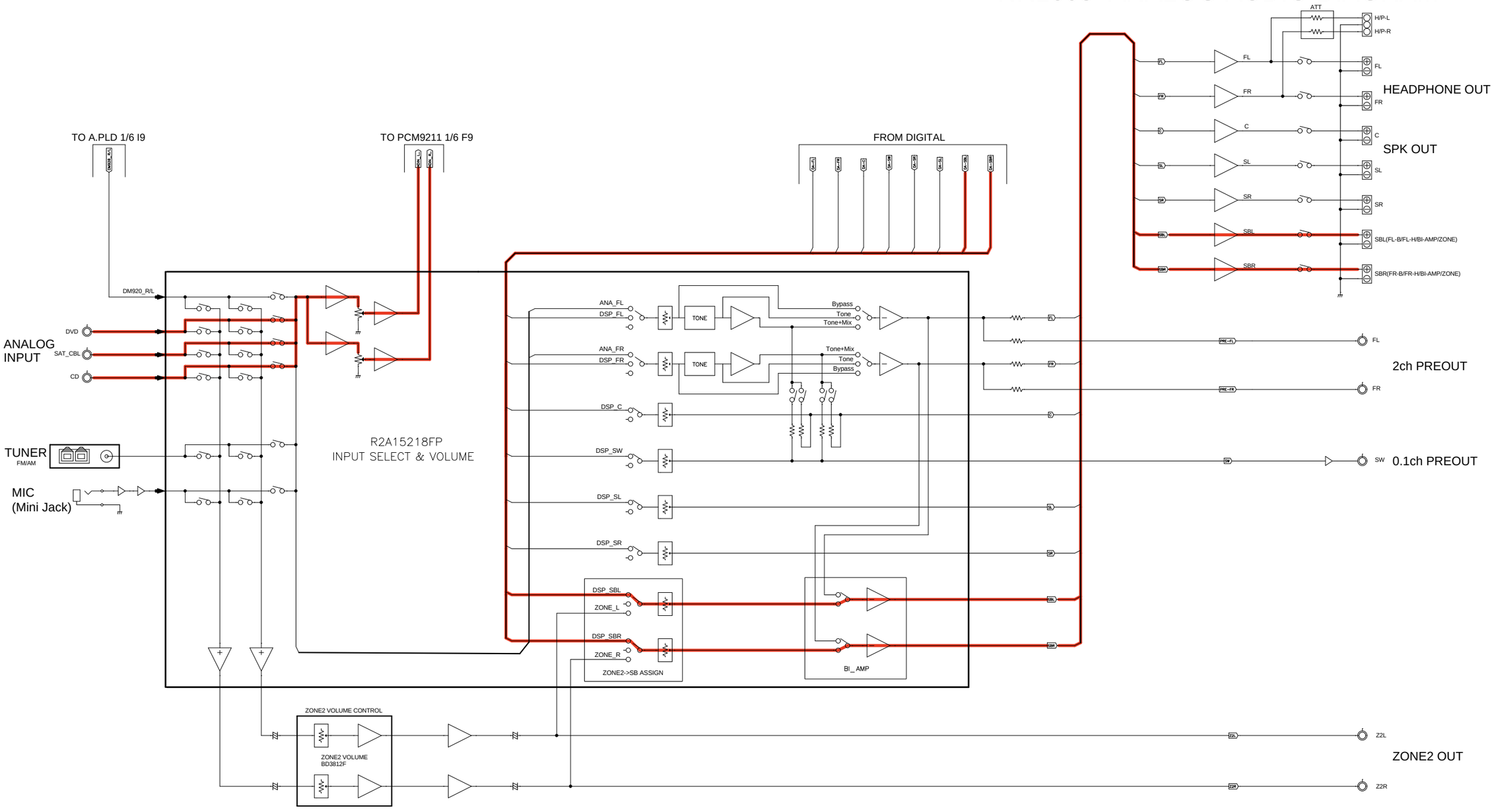


fig.14b

NR1605 ANALOG AUDIO DIAGRAM



3.5. Protection History Display Mode

3.5.1. Actions

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

3.5.2. Starting up

Hold down buttons "**ZONE2 SOURCE**" and "**STATUS**" at the same time and press the power button to turn on the power.
Select the "**2. PROTECTION**" using the button "**INTERNET RADIO**", and press the button "**STATUS**" to commit the selection.

3.5.3. Protection information and displays

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

(1) If no protections have occurred.

FLD	N	O		P	R	O	T	E	C	T						

(2) ASO / DC (if the last protection was ASO / DC)

FLD	P	R	T	:	A	S	O	/	D	C						

Cause: A short circuit occurred between the speaker terminals, or speakers with an impedance outside the rating were connected.
Abnormal DC output from the power amp.

Note: Short circuits in speaker terminals or speakers can be identified.

If the power is turned on during this abnormality, protection is activated after around 6 seconds and the power is turned off.

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

FLD	P	R	T	:	T	H	E	R	M	A	L		A			
FLD	P	R	T	:	T	H	E	R	M	A	L		B			
FLD	P	R	T	:	T	H	E	R	M	A	L		E			

Cause: Abnormal heat sink temperature.

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

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

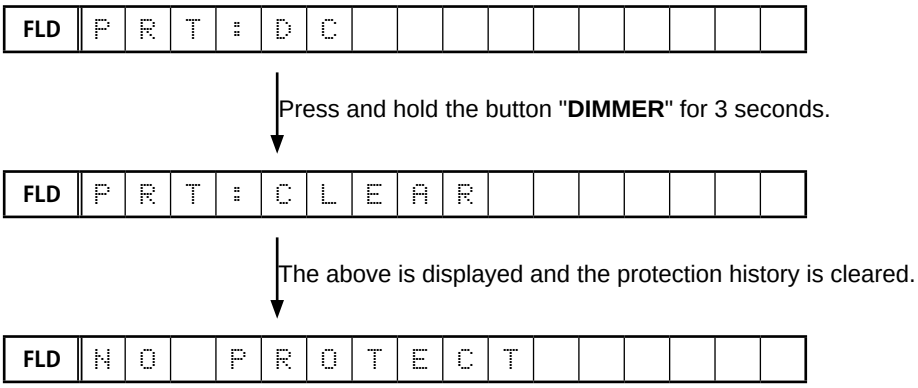
FLD	:	C	U	R	R	E	N	T								

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.

3.5.4. Clearing the Protection History

There are two ways to clear the protection history.

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



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

※ Use the method in **3.5.3.(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.

(1) ASO/DC protection: Flashes in 0.5-second cycles (0.25 seconds lit, 0.25 seconds unlit)
(2) THERMAL (A/B) protection: Flashes in 2-second cycles (1 second lit, 1 second unlit)

3.6. Operation Info Mode

3.6.1. Actions

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

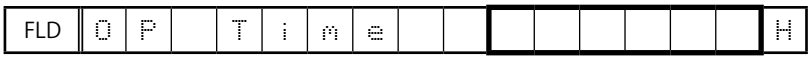
3.6.2. Starting up

Hold down buttons "**ZONE2 SOURCE**" and "**STATUS**" at the same time and press the power button to turn on the power.
Select the "**4. OP INFO**" using the button "**INTERNET RADIO**", and press the button "**STATUS**" to commit the selection.

3.6.3. Operations

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

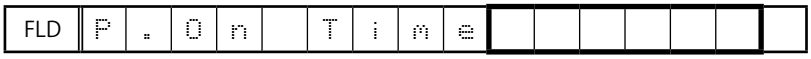
(a) Accumulated operating time



↑Time display

"**STATUS**"

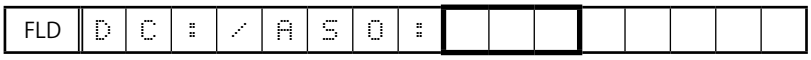
(b) Power on count



↑Count display

"**STATUS**"

(c) DC / ASO Protection count

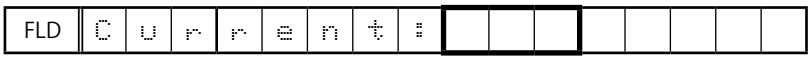


"**STATUS**"

(d) Thermal Protection count

"**STATUS**"

(e) Thermal Protection count



"**STATUS**"

(Returns to normal display)

3.7. TUNER STEP mode (U/N only)

3.3.1. Actions

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

3.7.2. Starting up

Hold down buttons "**ZONE2 SOURCE**" and "**STATUS**" at the same time and press the power button to turn on the power. Select the "**5. TUNER FRQ SER**" using the button "**INTERNET RADIO**", and press the button "**STATUS**" to commit the selection.

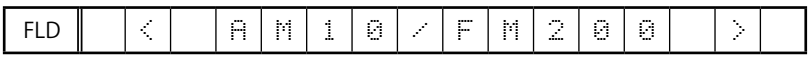
3.7.3. Displays

Start this unit in TUNER STEP mode, select using button "**INTERNET RADIO**" and enter using button "**STATUS**".
The following information is displayed in the following order.

(a) AM9kHz/FM50kHz selected

"**INTERNET RADIO**" "**ZONE2 SOURCE**"

(b) AM10KHz/FM200kHz selected



"**STATUS**"

(C) Press the power button to turn off the power.
(D) Press the power button to turn on the power.

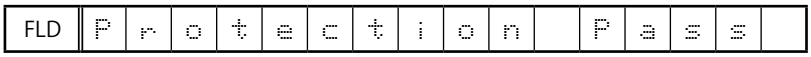
4. Protection Pass Mode

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.

4.2. Operations

Hold down buttons "**DIMMER**", "**STATUS**" and "**SOUND MODE**" 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.



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

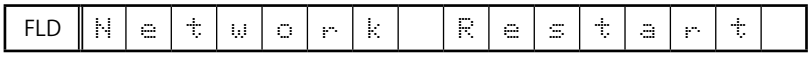
5. CX870 / CY920 Reboot mode

5.1. 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**" – "**Network**" – "**Always On**").

5.2. Operations

1. Turn on the button "**MAIN ZONE**" and set NETWORK as the input source.
2. Hold down buttons "**DIMMER**" and "**SOUND MODE**" for at least 3 seconds while the power is on.
3. FL display during CX870 / CY920 reboot



4. 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.

6. CX870 / CY920 Initialization mode

6.1. 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

6.2. Operations

Hold down buttons "**DIMMER**" and "**STATUS**" for at least 3 seconds while the power is on.

Initializing Display

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

Complete Display

FLD				C	o	m	p	l	e	t	e	d			

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

Failed Display

FLD						F	a	i	l	e	d				

SERVICE JIGS

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.

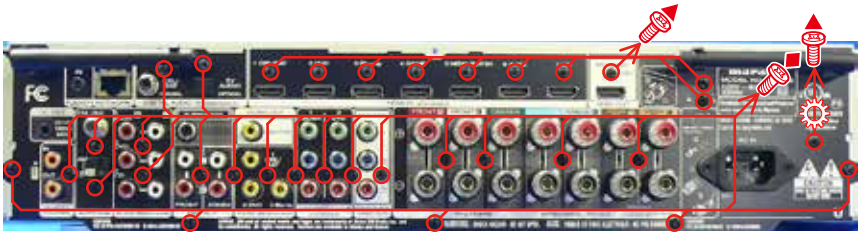
• Connection of Jig for HDMI PCB

-Items to Be Prepared-

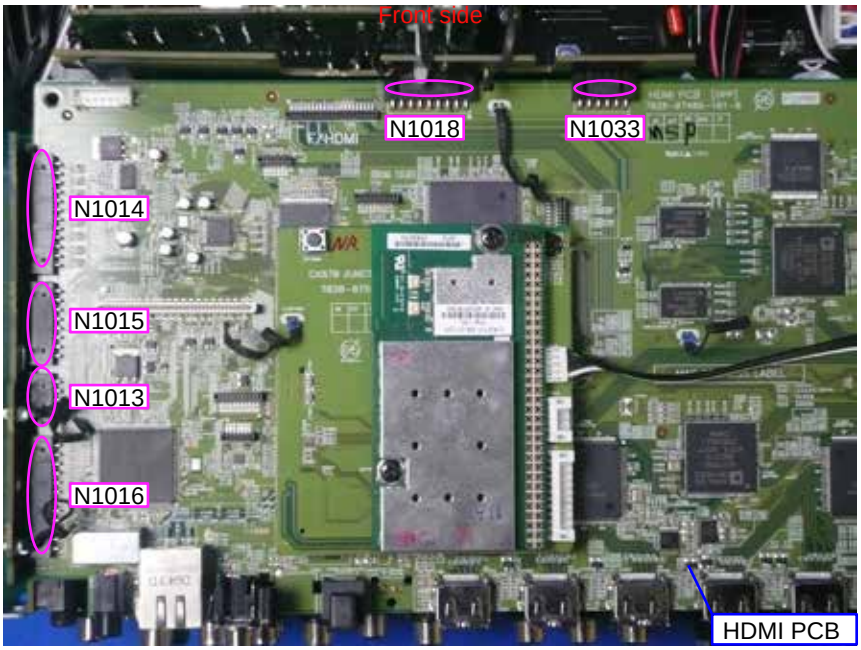
8U- 110084S : EXTENSION UNIT KIT : 1 Set
Insulation sheet (Not supplied) : 1 sheet
Ground lead (Not supplied) : 1 pc

-Procedures-

(1) Remove the screws.

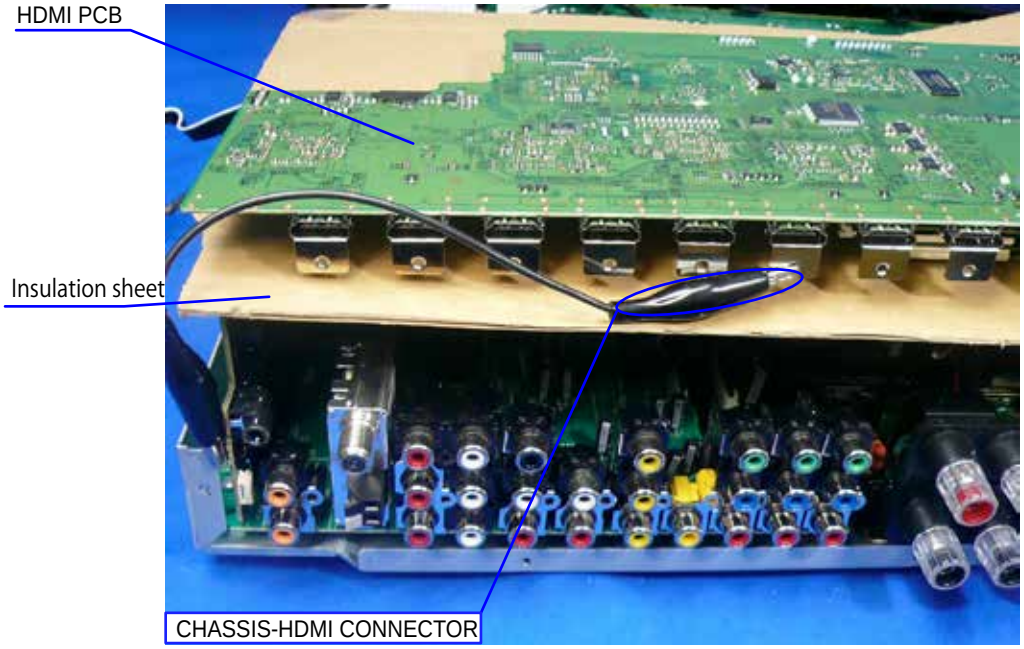


(2) Remove the connector PCB.

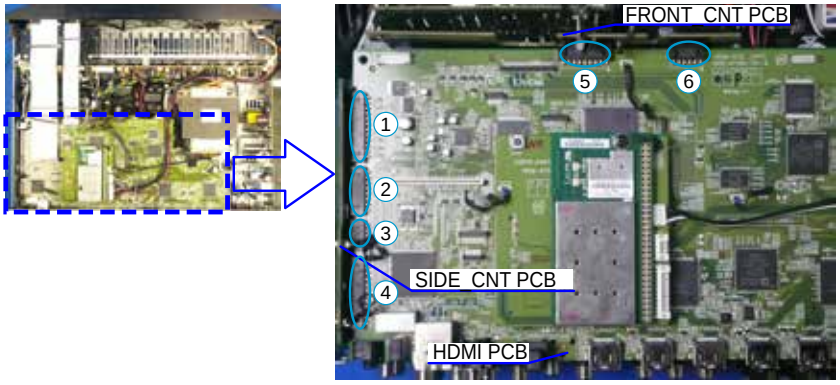


(3) Remove the HDMI PCB from the chassis and turn it over.
Place an insulation sheet larger than the PCB underneath the HDMI PCB.

※ 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	23pin	CP4603	SIDE CNT	⟷	N1014	HDMI
②	15pin	CP4604	SIDE CNT	⟷	N1015	HDMI
③	7pin	CP4605	SIDE CNT	⟷	N1013	HDMI
④	23pin	CP4606	SIDE CNT	⟷	N1016	HDMI
⑤	17pin	CP4613	FRONT CNT	⟷	N1018	HDMI
⑥	11pin	CP4612	FRONT CNT	⟷	N1013	HDMI

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	Proce-dure after Replace-ment	Remark
HDMI	U1018	R5F56108VNFP 32BIT	B	SOFTWARE: Main
HDMI	U1020	R5F5210ABDFP	B	SOFTWARE: Sub
HDMI	U1025	MX25L1606EM2I-12G 16M	B	SOFTWARE: DSP ROM
HDMI	U1027	MX25L12835FMI-10G 128M	B	SOFTWARE: GUI ROM
HDMI	U1041	5M80ZT100C5N TQFP100	B	SOFTWARE: AUDIO PLD
HDMI	U1045	5M80ZT100C5N TQFP100	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

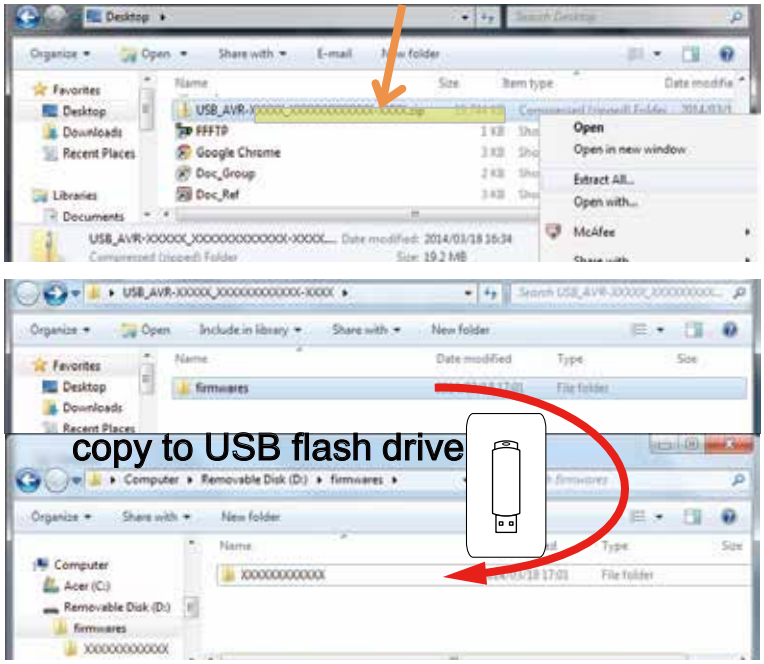
(1) Preparation

- 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).

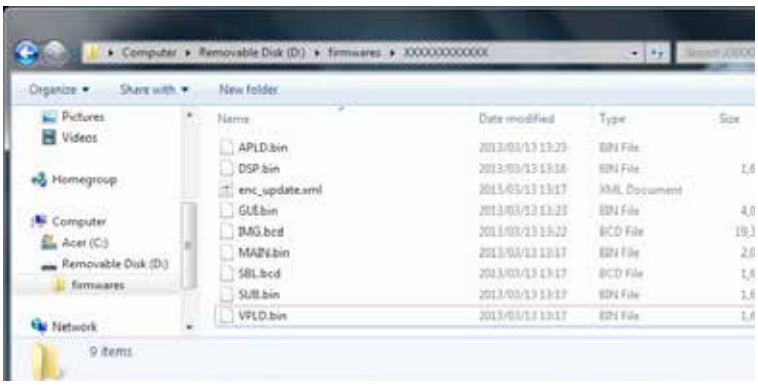
1.3. File structure on USB Memory

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

USB memory root

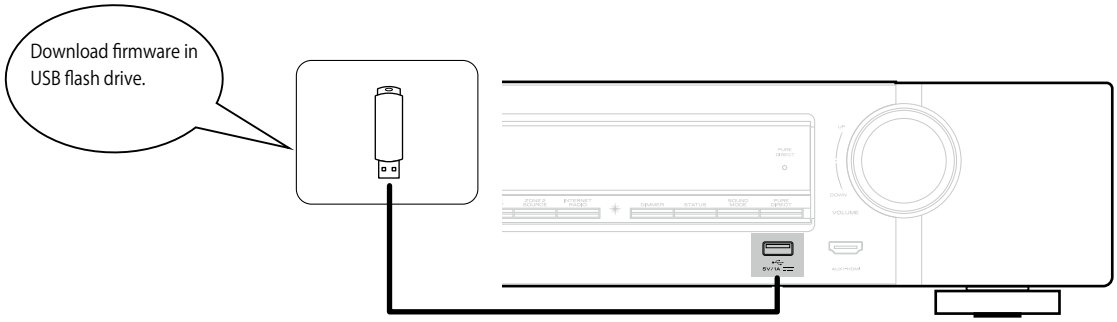
Model Name	Model Area	Product ID
NR1605U	North America (U)	100100240100
NR1605N	Europe (N)	100100240200
NR1605F	Japan (F)	100100240400

+ firmwares
  + 000100XXXXXX
    + APLD.bin
    + DSP.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 "**DIMMER**" and "**SOUND MODE**" 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	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	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	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 "**DIMMER**" and "**SOUND MODE**" buttons simultaneously while inserting the AC plug to turn the power on.

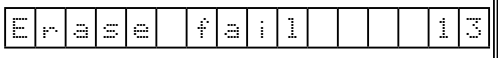
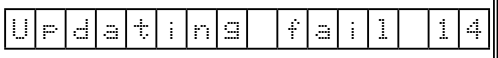
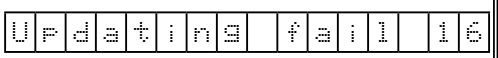
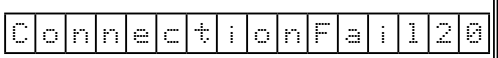
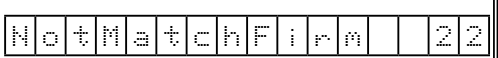
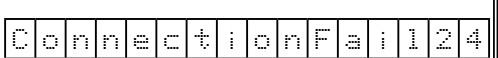
1.9.2. The firmware update finishes.

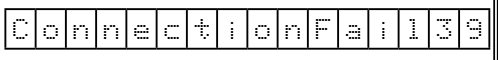
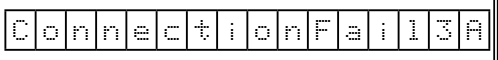
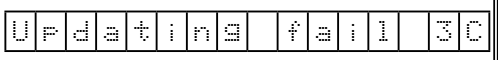
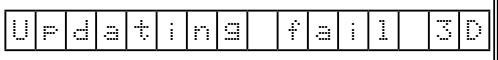
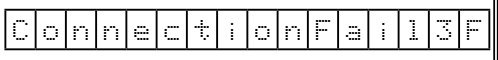
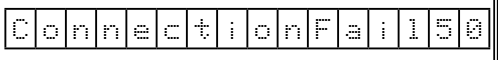
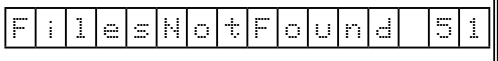
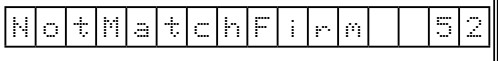
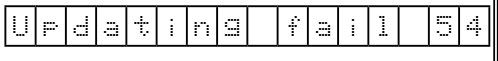
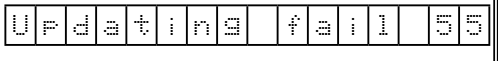
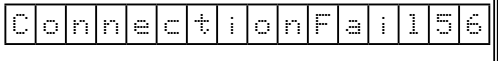
The update after the restart, all devices will be updated.

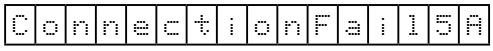
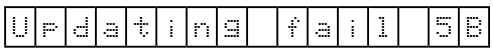
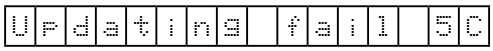
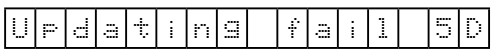
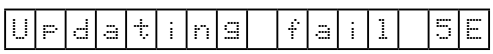
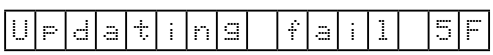
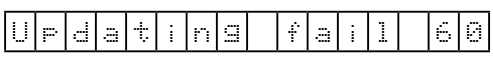
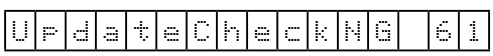
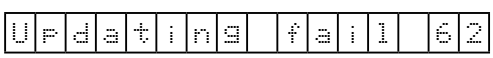
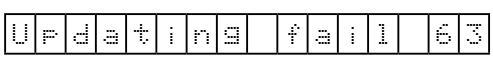
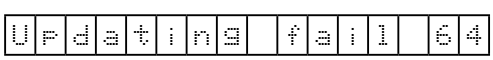
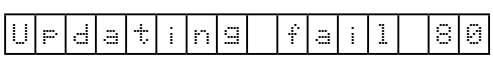
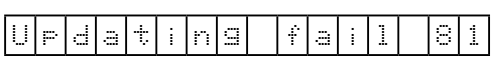
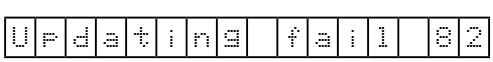
1.10.About the error code

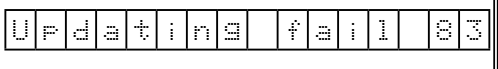
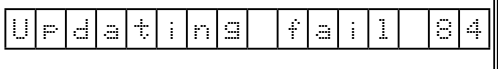
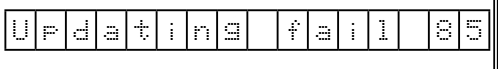
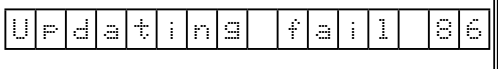
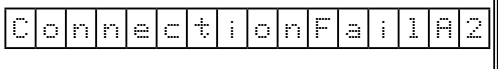
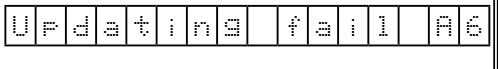
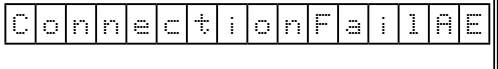
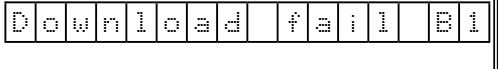
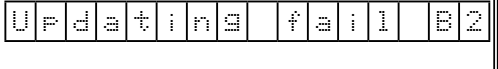
See the table below for error codes and details of faults when the firmware is updated through USB memory.

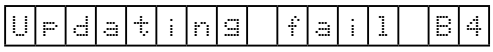
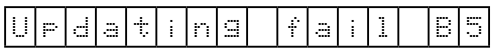
Error Code	Details of Error code	Display	Coping strategies
01	Unable to detect USB.	ConnectionFail01	Disconnect and connect the USB memory.
02	No Firmware File in USB.	FileNotFound 02	Make sure that the Firmware File is in the USB memory.
03	Firmware File in USB for unsupported Model name/area.	NotMatchFirm 03	Check the supported Model name/area for the Firmware File.
04	Failed to obtain individual Firmware information.	ConnectionFail04	Start the USB Update again.
05	Time Out while obtaining individual Firmware information.	ConnectionFail05	Start the USB Update again.
06	Failed to obtain entire Firmware information.	ConnectionFail06	Start the USB Update again.
07	Time Out while obtaining entire Firmware information.	ConnectionFail07	Start the USB Update again.
08	Error notification received while requesting Firmware Info.	ConnectionFail08	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.	ConnectionFail09	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.	ConnectionFail0A	Disconnect and connect the USB memory.
0B	No Firmware File for Firmware Download.	FileNotFound 0B	Disconnect and connect the USB memory.
0D	Received value with invalid Package Version.	ConnectionFail0D	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 (Time Out).	Updating fail 10	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
11	Abnormal data in Update Packet received from CX870 (CRCError).	Updating fail 11	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
12	Abnormal data in Update Packet received from CX870 (PacketNoError).	Updating fail 12	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
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.
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.

Error Code	Details of Error code	Display	Coping strategies
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.
39	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	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	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	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	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	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	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	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	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	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	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	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	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.

Error Code	Details of Error code	Display	Coping strategies
5A	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.
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 (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 (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 (PacketNo-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.
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 Boot Loader 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 (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.

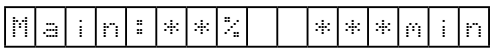
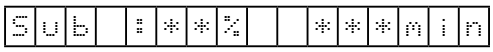
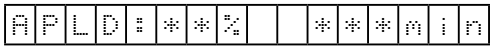
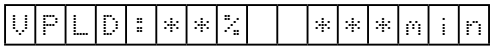
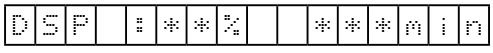
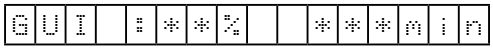
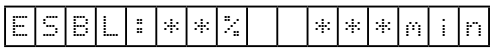
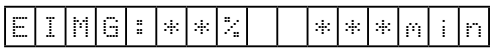
Error Code	Details of Error code	Display	Coping strategies
83	Abnormal data in Update Packet received from CX870 (CRCError).		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
84	Abnormal data in Update Packet received from CX870 (PacketNo-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.
85	Abnormal data in Update Packet received from CX870 (DataLength/DataNo).		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 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.

Error Code	Details of Error code	Display	Coping strategies
B4	Failed to transit to BootLoader 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.
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**" (20 page).

1.11. Device display during firmware update

Display of target device during firmware update.

Target device	Display	Error code when an error occurs
Main CPU		08 - 0B 10 - 15 20 - 27 36 - 3B 3F
Sub		50 - 52 54 - 58 5A - 64
Audio PLD		50 - 52 54 - 58 5A - 64
VIDEO PLD		50 - 52 54 - 58 5A - 64
DSP		50 - 52 54 - 58 5A - 64
GUI Serial Flash		50 - 52 54 - 58 5A 62 - 64 80 - 86
CX870 Boot Loader		A0 - A4 A6 - A7 AE - B5
CX870 Image		A0 - A4 A6 - A7 AE - B5
CX870 Image (Emergency Mode)		–

Checking the Firmware Version After an Update

After updating the firmware, check the version. See "**1. Version Display Mode**" (20 page).

2. Updating by DPMS

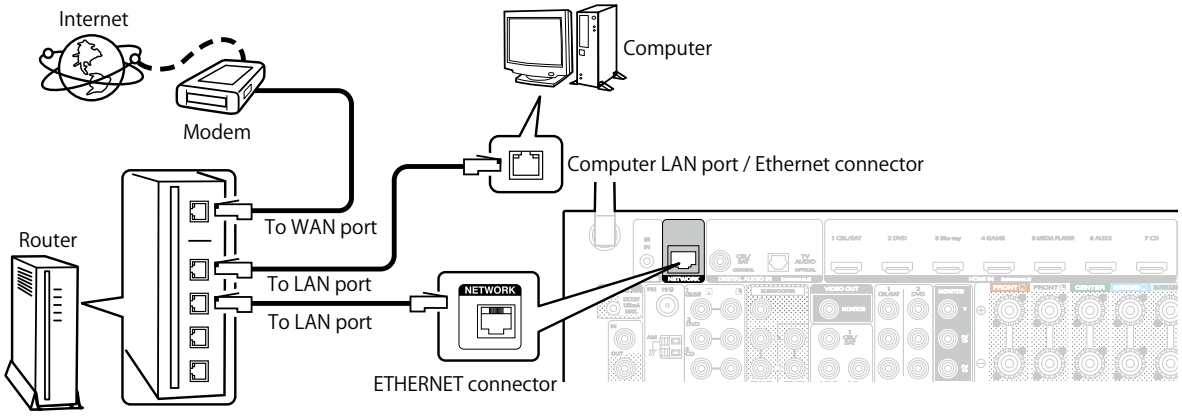
Download the latest firmware from the internet and update the firmware.

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.

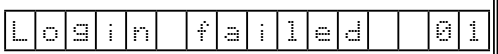
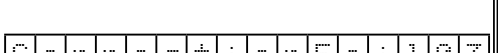
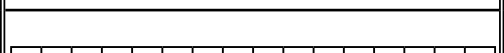
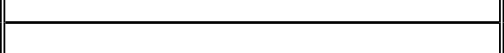
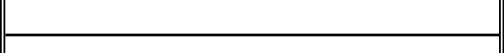
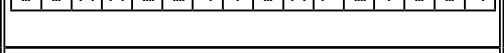
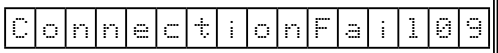
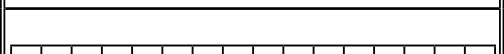
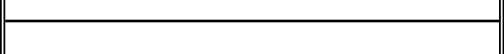
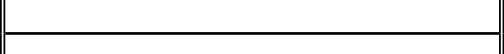
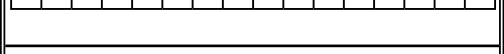
(1) Press the button "**SETUP**" on the remote control to display the GUI menu.
(2) Press the cursor button to select "**General**" → "**Firmware**" → "**Update**" → "**Check Update**".
(3) Press the button "**ENTER**".
  • The latest firmware version uploaded to our website is displayed.
  • Proceed 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.

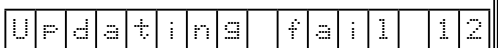
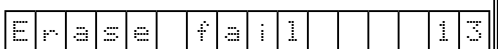
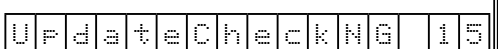
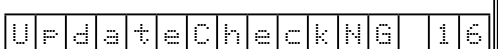
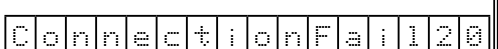
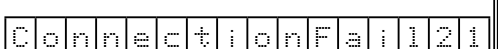
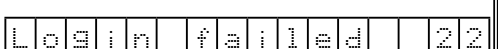
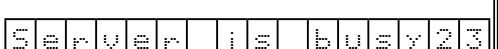
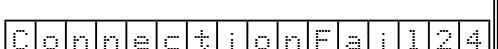
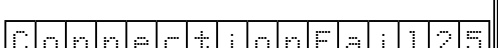
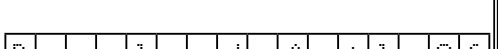
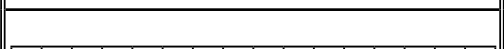
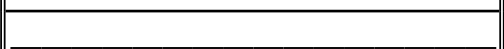
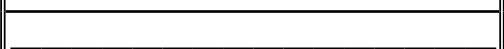
--- Precautions for Updates ---

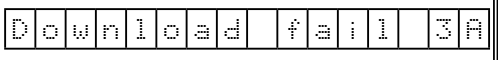
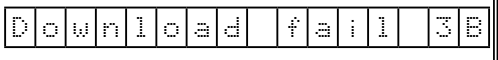
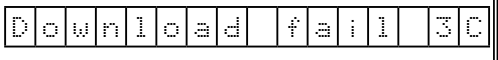
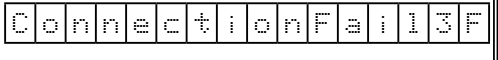
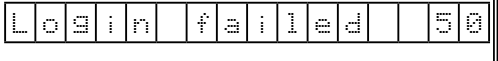
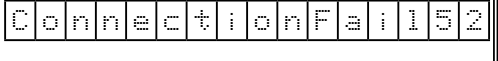
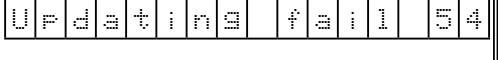
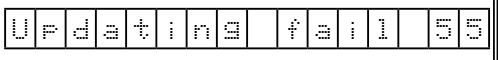
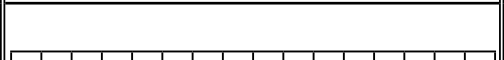
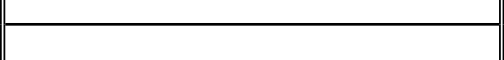
• The environment and settings must allow connection to broadband Internet for updates.
• Never turn off the power before an update is completed.
• It takes around 1 hour to complete the update.
Once an update is started, normal operations cannot be performed until it is completed.
The GUI menu settings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

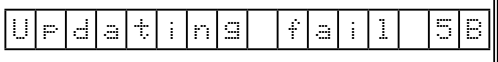
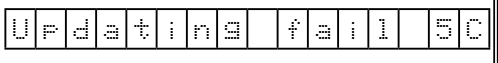
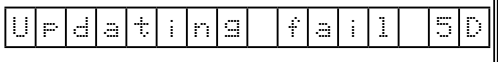
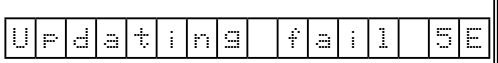
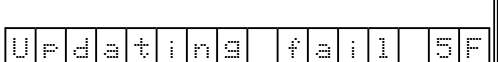
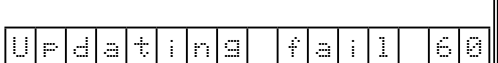
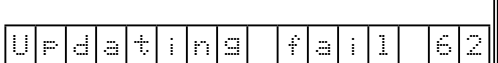
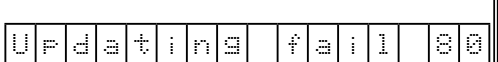
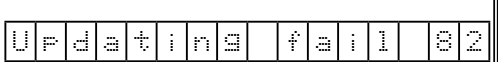
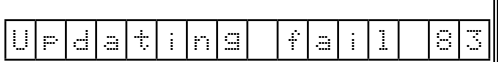
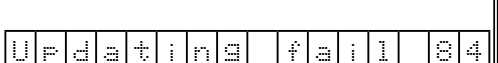
2.3. About the error code

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. (DPMS:marantz Product Management Server).

Error Code	Details of Error code	Display	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 individual Firmware information.		Check the network connection. Update in an environment where there is a small network load.
05	Time Out while obtaining individual Firmware information.		Check the network connection. Update in an environment where there is a small network load.
06	Failed to obtain entire Firmware information.		Check the network connection. Update in an environment where there is a small network load.
07	Time Out while obtaining entire 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(ServerBusy) 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 (Time Out).		Turn on the power again. Update will start automatically.
11	Abnormal data in Update Packet received from CX870 (CRCError).		Turn on the power again. Update will start automatically.

Error Code	Details of Error code	Display	Coping strategies
12	Abnormal data in Update Packet received from CX870 (PacketNo-Error).		Turn on the power again. Update will start automatically.
13	Block Erase failed before rewriting Main.		Turn on the power again. Update will start automatically.
14	Block Write failed while rewriting Main.		Turn on the power again. Update will start automatically.
15	Error in Verify after rewriting Main (Check SumError).		Turn on the power again. Update will start automatically.
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	SBL Mode after IP Address acquisition failure (AutoIP).		Check the network connection. Update in an environment where there is a small network load.
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 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 congestion notification SBL Mode after DPMS connection.		Update in an environment where there is a small network load.
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	Failed to transit to SBL Mode.		Initialize the unit and try updating again.
26	Error in Firmware Download (Time Out).		Check the network connection. Update in an environment where there is a small network load.
27	Failed to write to EEPROM after SBL Mode.		Initialize the unit and try updating again.
36	Login incorrect notification DPMS connection.		Update in an environment where there is a small network load.
37	Server congestion notification by DPMS connection.		Update in an environment where there is a small network load.
38	Connection failure notification DPMS connection.		Check the network connection. Update in an environment where there is a small network load.

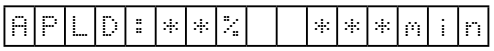
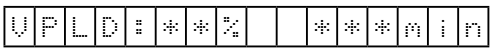
Error Code	Details of Error code	Display	Coping strategies
39	Connect Time Out by DPMS connection.		Check the network connection. Update in an environment where there is a small network load.
3A	Error(NG) notification received while requesting Firmware Download.		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
3B	Error(ServerBusy) 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(ServerBusy) 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	Details of Error code	Display	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 (Time Out).		Turn on the power again. Update will start automatically.
5D	Abnormal data in Update Packet received from CX870 (CRCError).		Turn on the power again. Update will start automatically.
5E	Abnormal data in Update Packet received from CX870 (PacketNo-Error).		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 (Time Out).		Turn on the power again. Update will start automatically.
83	Abnormal data in Update Packet received from CX870 (CRCError).		Turn on the power again. Update will start automatically.
84	Abnormal data in Update Packet received from CX870 (PacketNo-Error).		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	Details of Error code	Display	Coping strategies
A1	IP Address acquisition failure (Time Out).	ConnectionFail A1	Check the network connection. Update in an environment where there is a small network load.
A2	Login incorrect notification DPMS connection.	Login failed A2	Check the network connection. Update in an environment where there is a small network load.
A3	Server congestion notification by DPMS connection.	Server is busy A3	Check the network connection. Update in an environment where there is a small network load.
A4	Connection failure notification DPMS connection.	ConnectionFail A4	Check the network connection. Update in an environment where there is a small network load.
A6	Error notification received while requesting Firmware Info.	Updating fail A6	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.	Updating fail A7	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.	Download fail AE	Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
AF	Error(ServerBusy) notification received while requesting Firmware Download.	Download fail AF	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.	Download fail B0	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).	Download fail B1	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 Firm.	Download fail B2	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).	Updating fail B3	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 Boot Loader Mode.	Updating fail B4	Initialize the unit and try updating again.
B5	Failed to transit to Application Mode.	Updating fail B5	Initialize the unit and try updating again.

Device display during firmware update

Display of target device during firmware update.

Target device	Display	Error code when an error occurs
Main		08 - 0C 10 - 15 22 - 24 36 - 3E
Sub		50 - 52 54 - 58 5A - 64
Audio PLD		50 - 52 54 - 58 5A - 61
VIDEO PLD		50 - 52 54 - 58 5A - 64
DSP		50 - 52 54 - 58 5A - 61
GUI Serial Flash		50 - 52 54 - 58 5A - 61 80 - 86
CX870 Boot Loader		A0 - A4 A6 - A7 AE - B5
CX870 Image		A0 - A4 A6 - A7 AE - B5
CX870 Image (Emergency Mode)		–

Checking the Firmware Version After an Update

After updating the firmware, check the version.

See "**1. Version Display Mode**" (20 page).

ADJUSTMENT

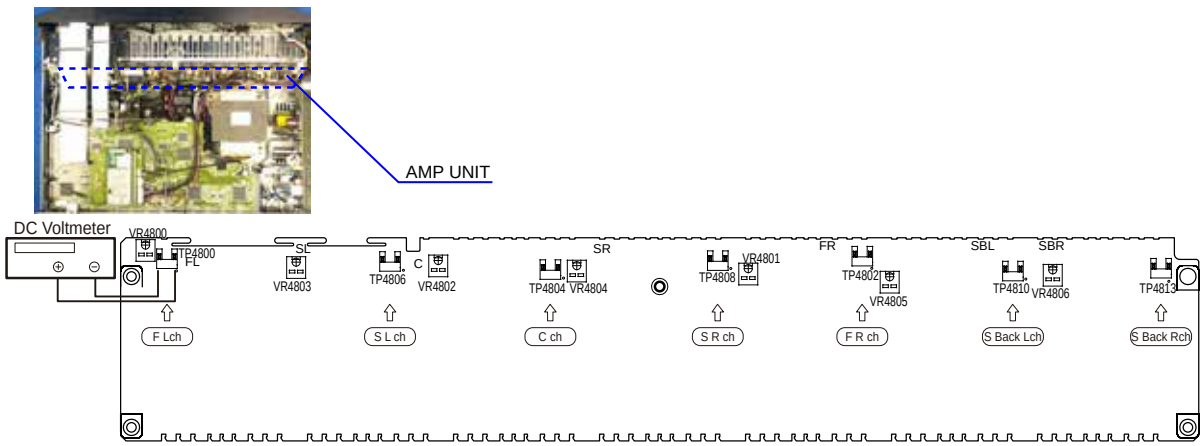
Adjusting Idling Current

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 VR4800, VR4801, VR4802, VR4803, VR4804, VR4805, VR4806 of the AMP PCB as far anticlockwise(↺) as possible.
(2) Connect the DC Voltmeter test points.
FRONT-Lch ：TP4800
FRONT-Rch ：TP4802
CENTER ch ：TP4804
SURROUND-Lch ：TP4806
SURROUND-Rch ：TP4808
SURROUND-BACK Lch ：TP4801
SURROUND-BACK Rch ：TP4813
(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 VR4800 clockwise (↻) and adjust the voltage of the test point to "**2.0mV ± 0.5mV DC**" within 2 minutes.
(6) 10 minutes after the preliminary adjustment, turn VR4800 and set the voltage as "**3.0mV ± 0.5mV DC**".
(7) Adjust the variable resistance of each channel using the same method.



SURROUND MODES AND PARAMETERS

■ Description of sound mode types

Dolby sound mode

Sound mode type	Description
Dolby PLIIx*1	This mode can be selected when the Dolby PLIIx decoder is used to play back 2-channel sources in 6.1/7.1-channel surround sound including the surround back channel(s). By adding the surround back channel(s), a more enveloping surround environment is produced, compared to Dolby Pro Logic II. There are three playback modes: “Cinema” mode that is optimized for movie playback, “Music” mode that is optimized for music playback, and “Game” mode that is optimized for game play.
Dolby PLII	This mode can be selected when the Dolby PLII decoder is used to play back 2-channel sources in 5.1-channel surround sound with an enveloping surround sound experience.
Dolby PLIIz*2	This mode can be selected when the Dolby PLIIz decoder is used to play back 2-channel sources in 7.1-channel surround sound with added front height channels. By adding front height channels, the front soundstage becomes dramatically taller, simulating the effect of listening in a large movie theater or concert hall.
Dolby Digital	This mode can be selected when playing sources recorded in Dolby Digital.
Dolby Digital EX*1	Using the Dolby Digital EX decoder, this mode plays Dolby Digital sources in 6.1/7.1-channel surround sound with added surround back channel(s). By adding surround back speaker(s), sounds can be heard coming at you from behind and not just from the sides.
Dolby TrueHD	This mode can be selected when playing sources recorded in Dolby TrueHD.
Dolby Digital Plus	This mode can be selected when playing sources recorded in Dolby Digital Plus.

*1 This can be selected when “Speaker Config.” - “Surr. Back” (☞ p. 188) is not set to “None”.
*2 This can be selected when “Speaker Config.” - “Front Height” (☞ p. 188) is not set to “None”.

DTS sound mode

Sound mode type	Description
DTS Neo:6	This mode can be selected when the DTS Neo:6 decoder is used to play back 2-channel sources in 6.1/7.1-channel surround sound including the surround back channel(s). There are two playback modes: “Cinema” mode that is optimized for movie playback, “Music” mode that is optimized for music playback.
DTS Surround	This mode can be selected when playing sources recorded in DTS.
DTS ES Dscrt6.1*	This mode is suitable for playing discs recorded in DTS-ES. The surround back channel added using the discrete method is played as an independent channel. Since all channels are independent, the 360-degree spacial expressiveness and sound localization are enhanced.
DTS ES Mtrx6.1*	This mode is suitable for playing discs recorded in DTS-ES. The surround back channel added to the surround-left and surround-right channels by a matrix encoder at software recording time is decoded by this unit’s matrix decoder and played from each channel (surround left, surround right, surround back).
DTS 96/24	This mode can be selected when playing sources recorded in DTS 96/24.
DTS-HD	This mode can be selected when playing sources recorded in DTS-HD.
DTS Express	This mode can be selected when playing sources recorded in DTS Express.

* This can be selected when “Speaker Config.” - “Surr. Back” (☞ p. 188) is not set to “None”.

PCM multi-channel sound mode

Sound mode type	Description
Multi Ch In	This mode can be selected when playing multi-channel PCM/DSD sources.

Original sound mode

Sound mode type	Description
Multi Ch Stereo	This mode is for enjoying stereo sound from all speakers. Stereo audio (2-channel) sources are played back via the front (L/R) speakers, the surround speakers and surround back speakers (if connected).
Virtual	This mode lets you experience an expansive surround sound effect when playing back through just the front (L/R) speakers only, and when listening with stereo headphones.

Auto sound mode

Sound mode type	Description
Auto	In this mode, the type of digital signal input, such as Dolby Digital, Dolby TrueHD, Dolby Digital Plus, DolbyDigital EX, DTS, DTS-HD, DTS-ES, PCM (multi-channel) is detected, and the playback mode switches automatically to the corresponding mode. If the input signal is analog or PCM (2-channel), stereo playback is used. For Dolby Digital or DTS, the music is played back according to the respective channel number.

Stereo sound mode

Sound mode type	Description
Stereo	This mode plays 2-channel stereo audio with no additional surround sound processing. • Sound is output from the front left and right speakers, and subwoofer if connected. • When multi-channel signals are inputted, they are mixed down to 2-channel audio and are played back with no additional surround sound processing.

Direct sound mode

Sound mode type	Description
Direct	This mode plays back audio as recorded in the source.
Pure Direct	This mode plays back an even higher quality sound than the “Direct” mode. The following circuits are stopped in order to further improve sound quality. • Display indicator circuit of the main body (display will go off.) • The analog video input/output switcher and processor is disabled.

■ Sound mode that can be selected for each input signal

- The following sound modes can be selected using the MOVIE, MUSIC and GAME buttons.
- Adjust the sound field effect with the menu “Surround Parameter” (☞ p. 150) to enjoy surround sound the way you like it.

Input signal	Sound mode	MOVIE button	MUSIC button	GAME button
2-channel *1	Stereo	○	○	○
	Dolby PLII/IIx Cinema *2	○		
	Dolby PLII/IIx Music *2		○	
	Dolby PLII/IIx Game *2			○
	Dolby PLII/IIz *2	○	○	○
	DTS Neo:6 Cinema *2	○		
	DTS Neo:6 Music *2		○	
	Multi Ch Stereo	○	○	○
	Virtual	○	○	○

*1 2-channel also includes analog input.

*2 This mode plays back 2-channel sources in 5.1 or 7.1-channel playback. It cannot be selected when headphones are used or when the speaker configuration is front speakers only.

Input signal		Sound mode	MOVIE button	MUSIC button	GAME button
Multi-channel *3		Stereo	○	○	○
	Dolby Digital	Dolby Digital	○	○	○
		Dolby Digital EX	○	○	○
		Dolby Digital + PLIIx Cinema	○		
		Dolby Digital + PLIIx Music		○	
		Dolby Digital + PLIIz	○	○	○
	Dolby TrueHD	Dolby TrueHD	○	○	○
		Dolby TrueHD + EX	○	○	○
		Dolby TrueHD + PLIIx Cinema	○		
		Dolby TrueHD + PLIIx Music		○	
		Dolby TrueHD + PLIIz	○	○	○
	Dolby Digital Plus	Dolby Digital Plus	○	○	○
		Dolby Digital Plus + EX	○	○	○
		Dolby Digital Plus + PLIIx Cinema	○		
		Dolby Digital Plus + PLIIx Music		○	
		Dolby Digital Plus + PLIIz	○	○	○
	DTS	DTS Surround	○	○	○
		DTS ES Dscrt 6.1	○	○	○
		DTS ES Mtrx 6.1	○	○	○
		DTS 96/24	○	○	○
		DTS + PLIIx Cinema	○		
		DTS + PLIIx Music		○	
		DTS + PLIIz	○	○	○
		DTS + Neo:6	○	○	○

*3 The sound mode that can be selected differs depending on the audio format of the input signal and the number of channels. For details, see “Types of input signals, and corresponding sound modes” (☞ p. 245).

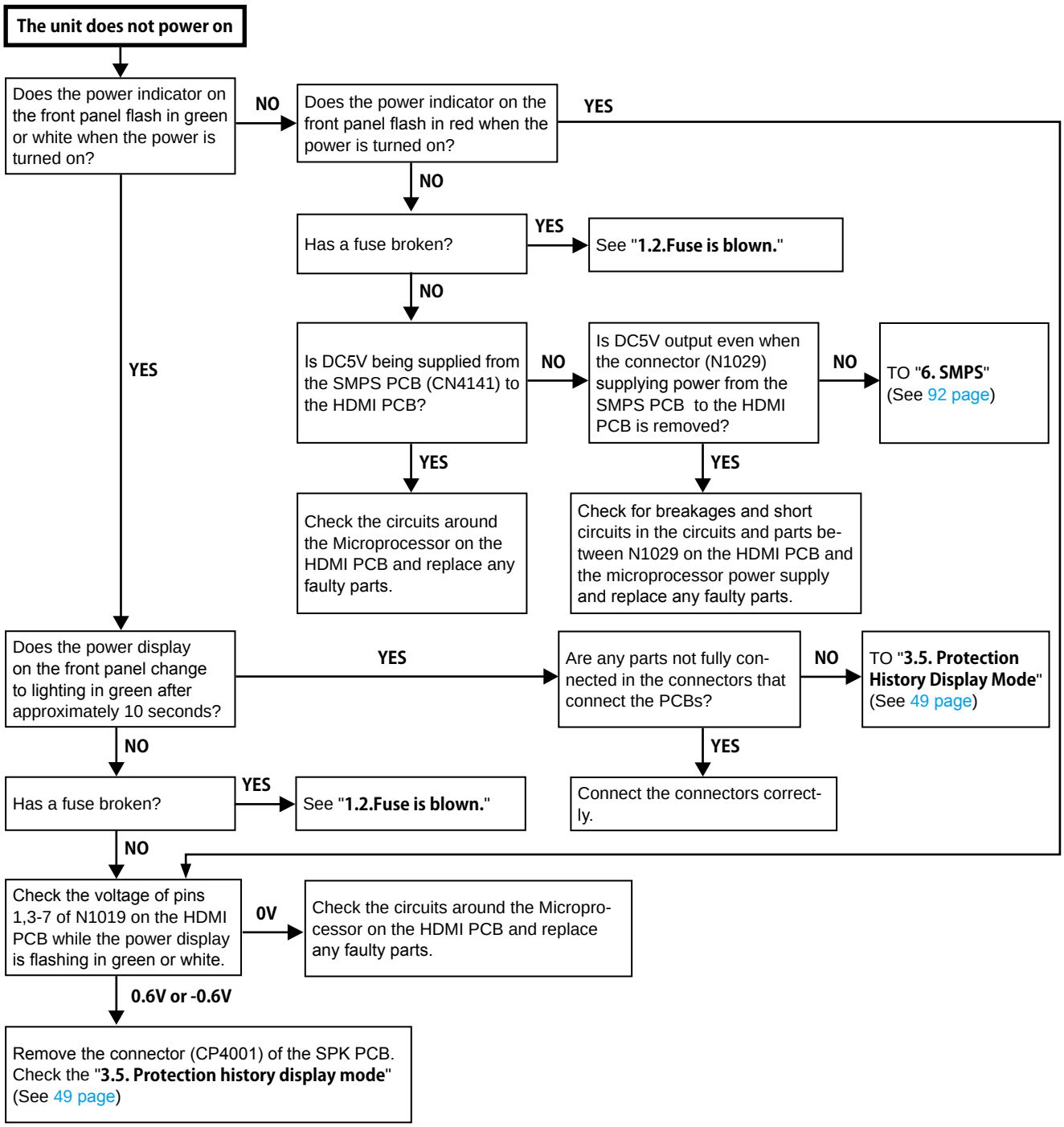
Input signal		Sound mode	MOVIE button	MUSIC button	GAME button
	DTS-HD/ DTS Express	DTS-HD Hi Res	○	○	○
		DTS-HD Mstr	○	○	○
		DTS Express	○	○	○
		DTS-HD + PLIIx Cinema	○		
		DTS-HD + PLIIx Music		○	○
		DTS-HD + PLIIz	○	○	○
		DTS-HD + Neo:6	○	○	
	PCM multi-channel	Multi Ch In	○	○	○
		Multi Ch In 7.1	○	○	○
		Multi In + Dolby EX	○	○	○
		Multi In + PLIIx Cinema	○		
		Multi In + PLIIx Music		○	
		Multi In + PLIIz	○	○	○
Multi-channel *3		Multi Ch Stereo	○	○	○
		Virtual	○	○	○

*3 The sound mode that can be selected differs depending on the audio format of the input signal and the number of channels. For details, see “Types of input signals, and corresponding sound modes” (☞ p. 245).

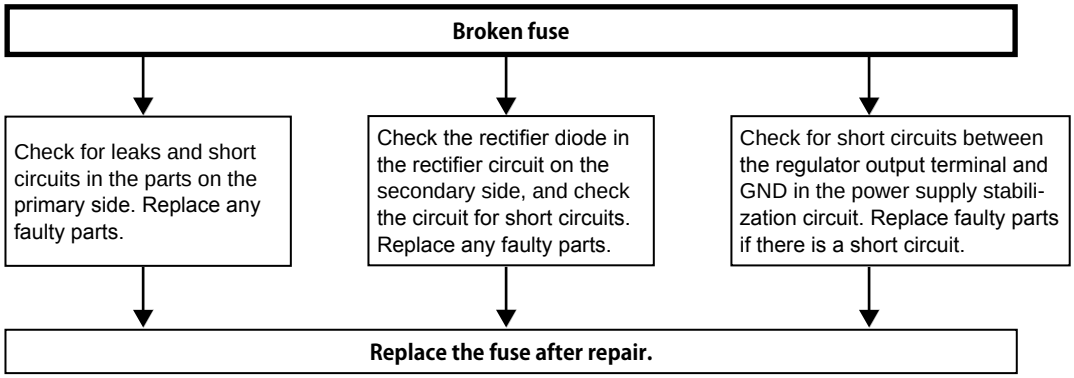
TROUBLE SHOOTING

1. POWER

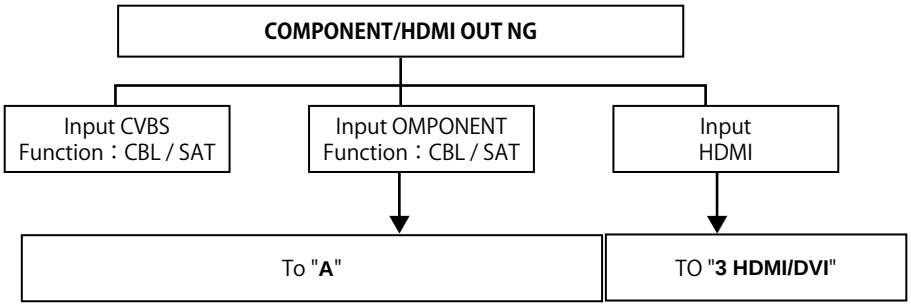
1.1. The unit does not power on



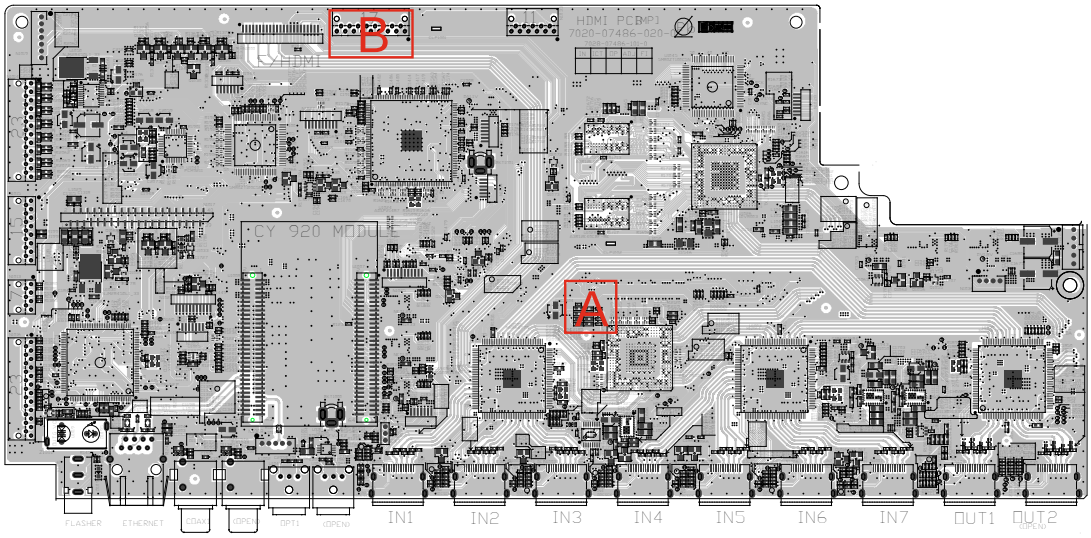
1.2. Fuse is blown



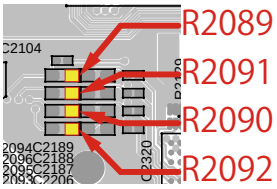
2. Analog video



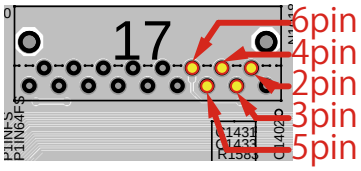
<HDMI PCB> test point



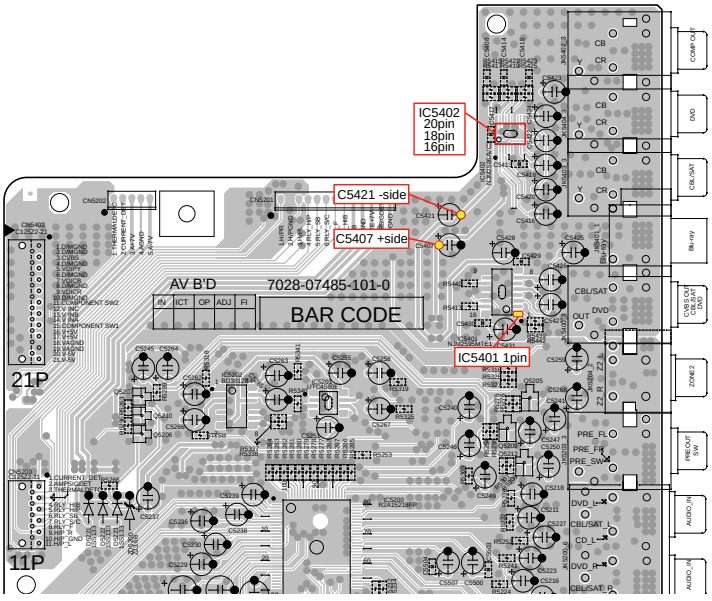
Detail A

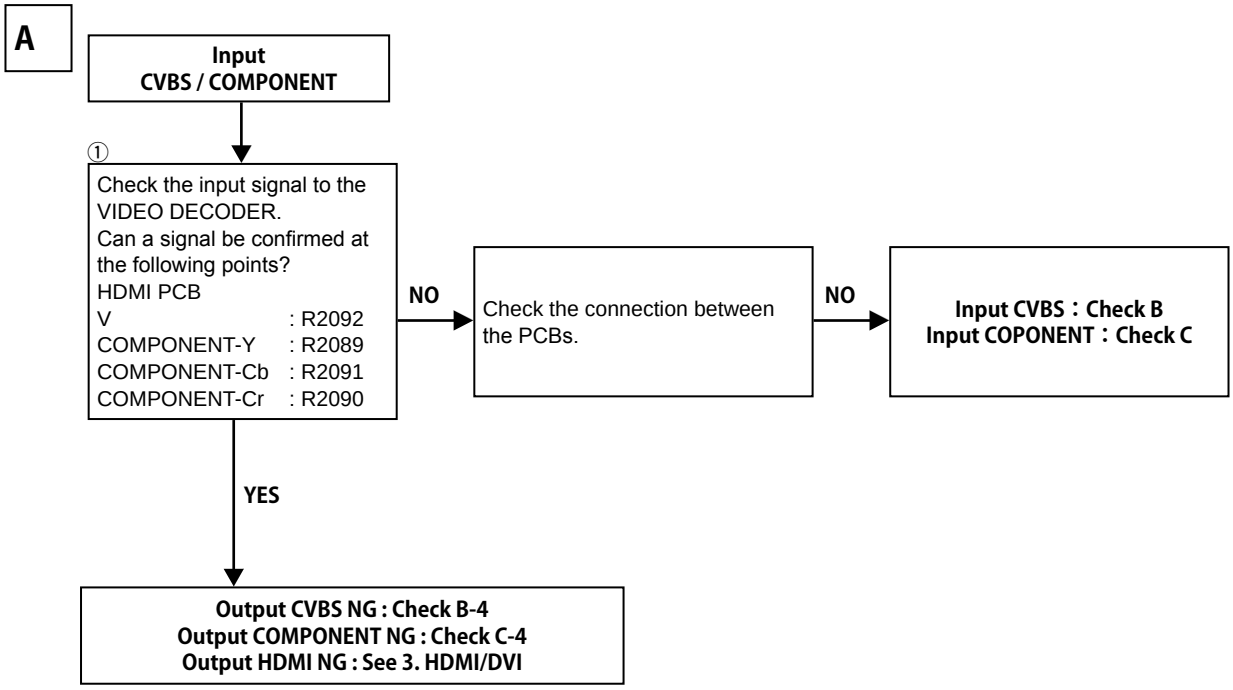


Detail B

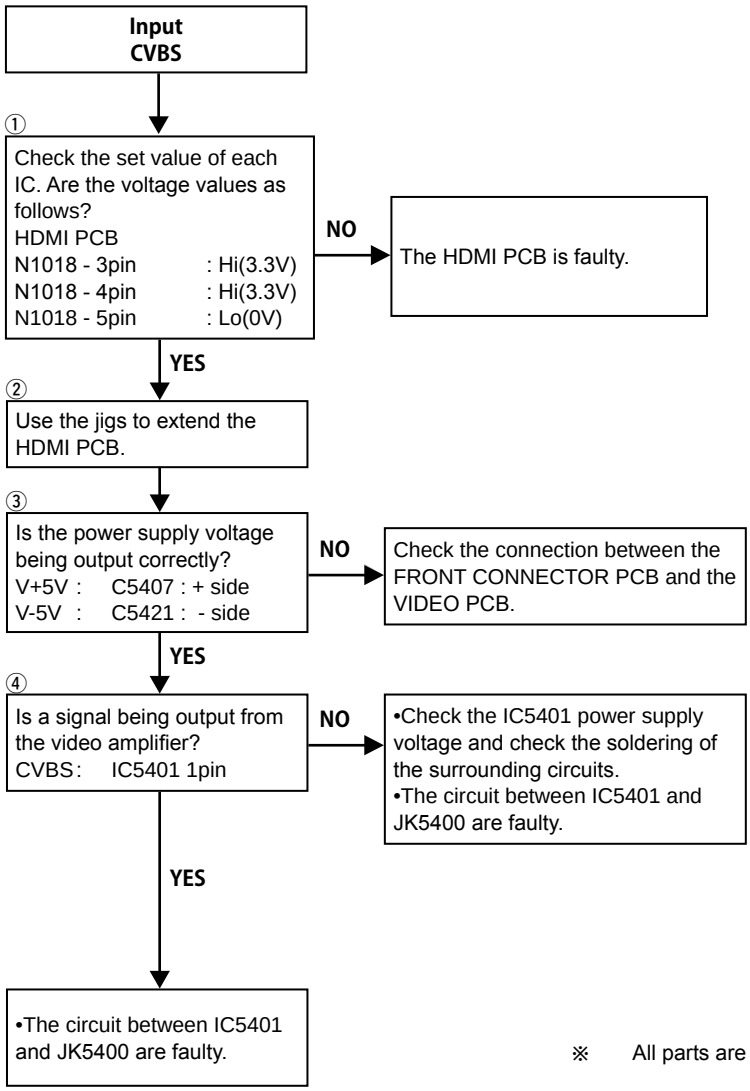


<AV PCB> test point

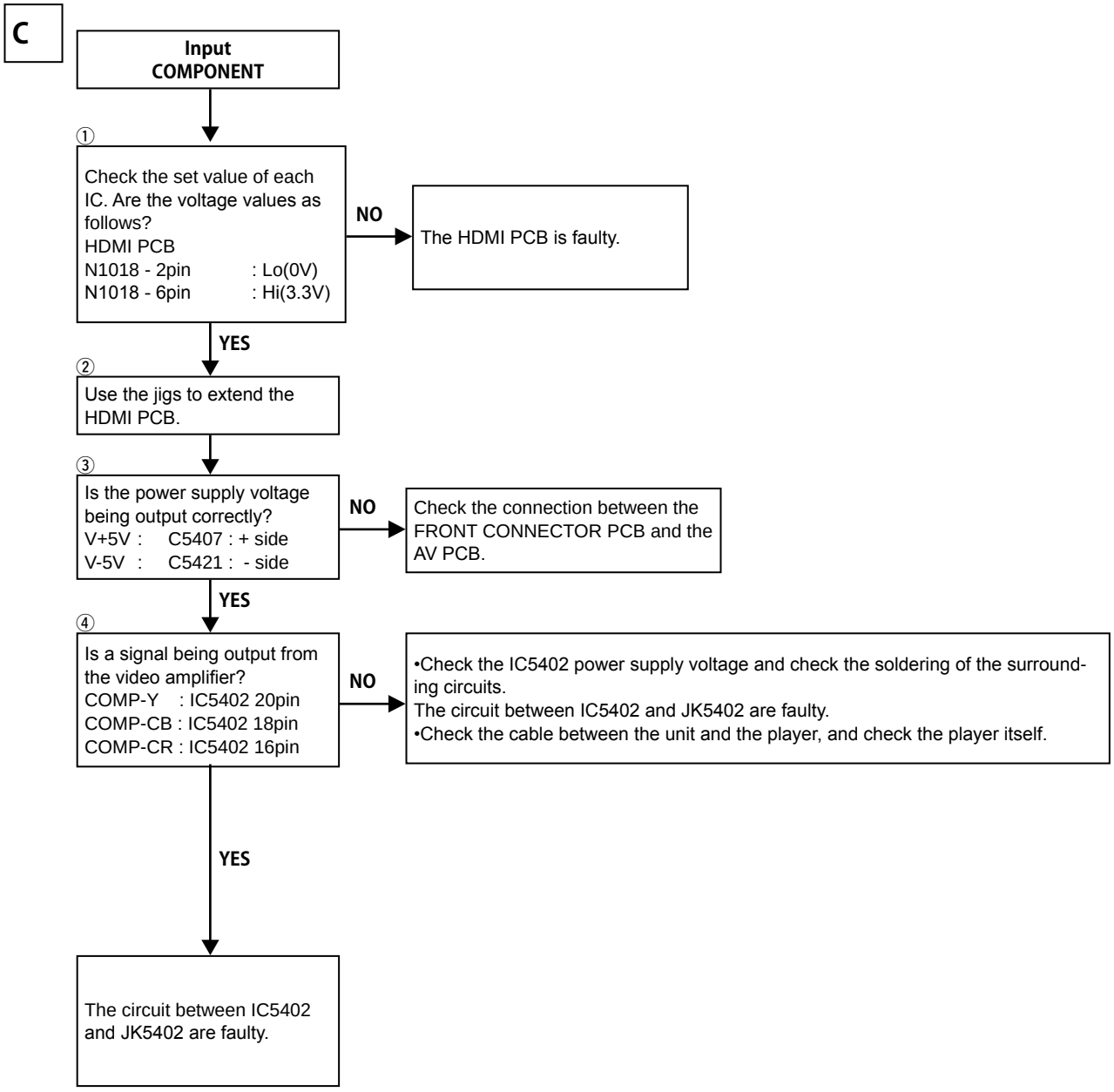



A
Input
CVBS / COMPONENT
①
Check the input signal to the VIDEO DECODER.
Can a signal be confirmed at the following points?
HDMI PCB
V : R2092
COMPONENT-Y : R2089
COMPONENT-Cb : R2091
COMPONENT-Cr : R2090
NO
Check the connection between the PCBs.
NO
Input CVBS：Check B
Input COPONENT：Check C
YES
Output CVBS NG : Check B-4
Output COMPONENT NG : Check C-4
Output HDMI NG : See 3. HDMI/DVI

B



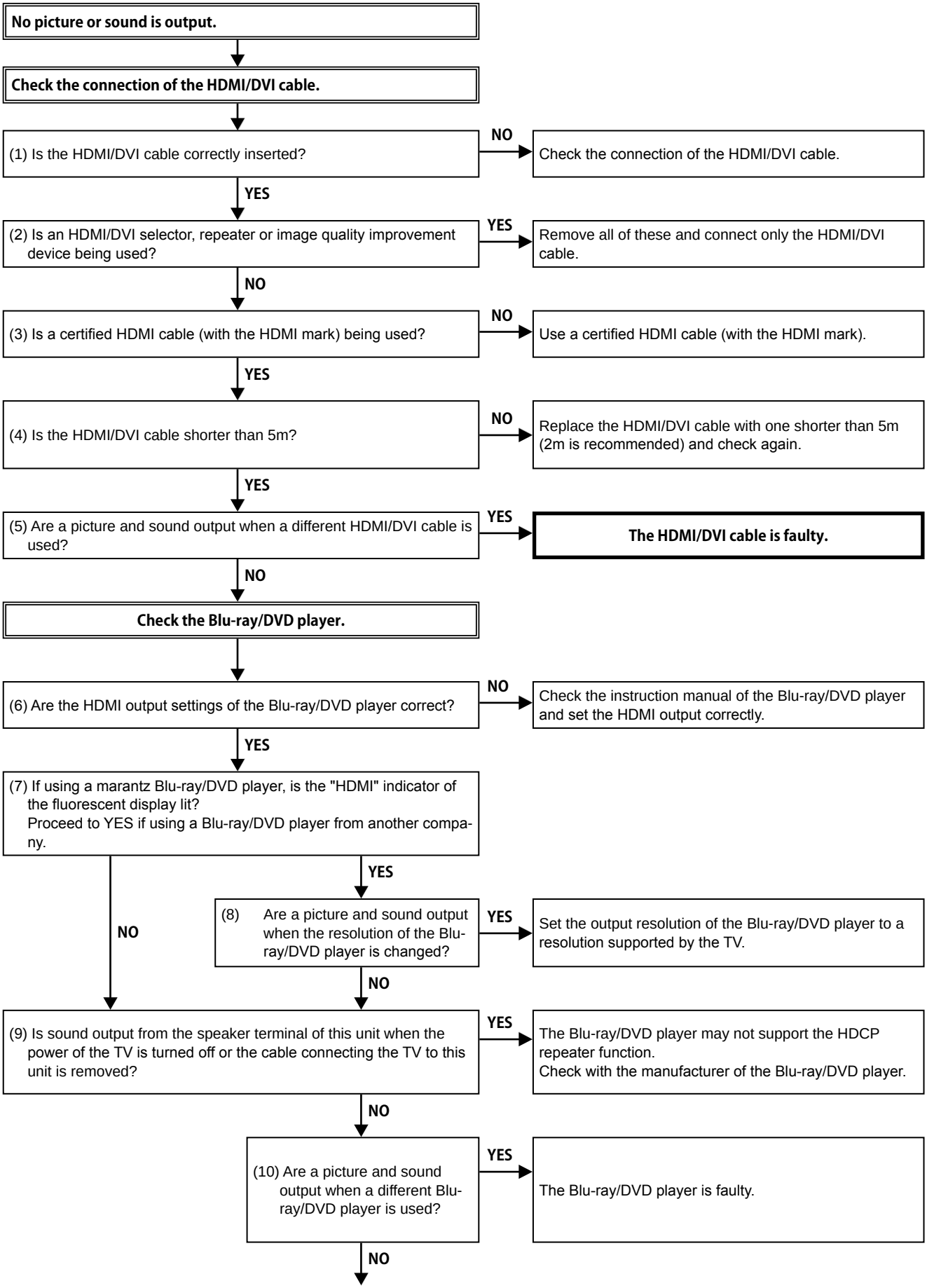
※ All parts are VIDEO PCB parts unless otherwise specified.

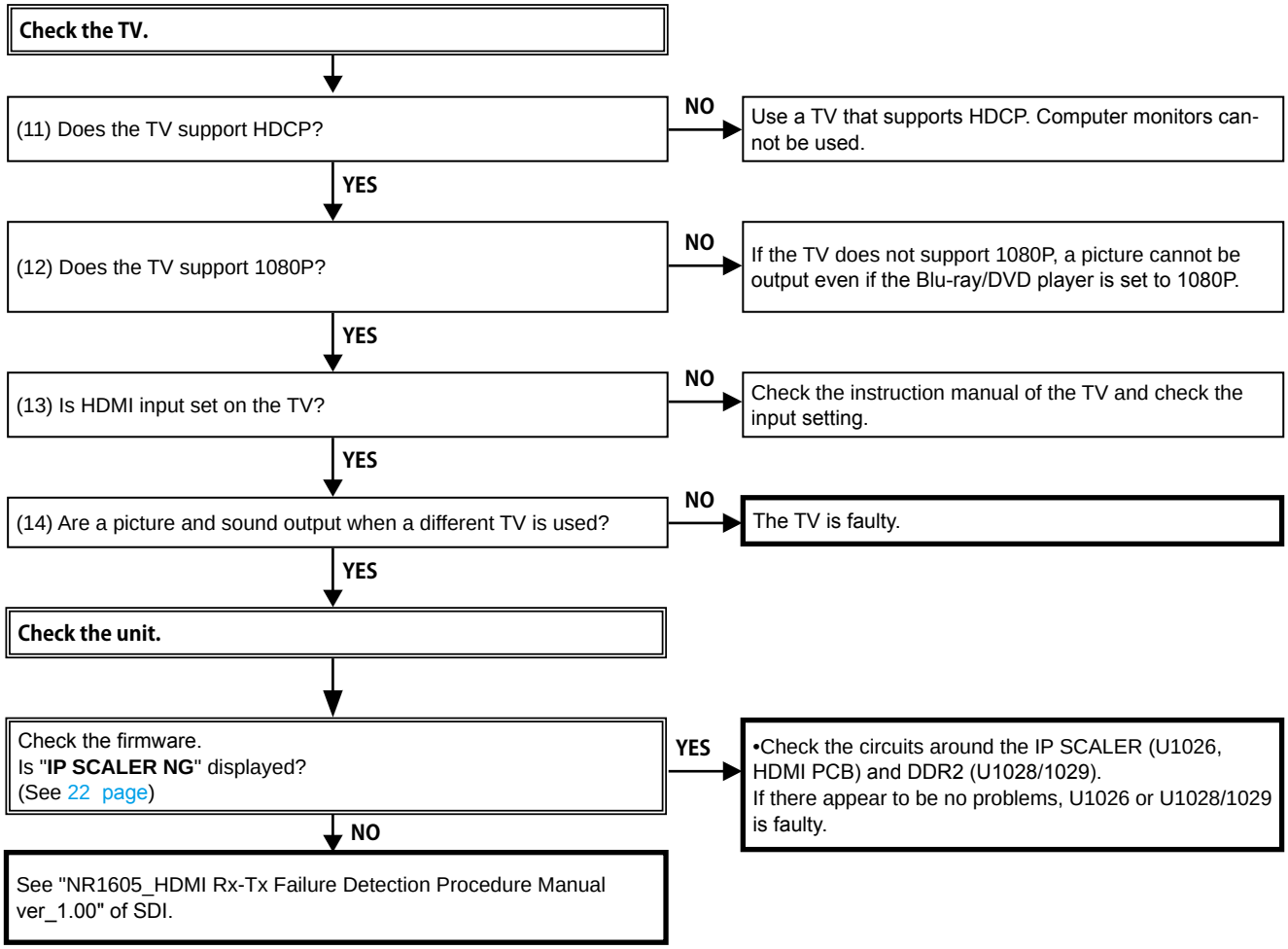


※ All parts are VIDEO PCB parts unless otherwise specified.

3. HDMI/DVI

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




Check the TV.
(11) Does the TV support HDCP?
NO
Use a TV that supports HDCP. Computer monitors cannot be used.
YES
(12) Does the TV support 1080P?
NO
If the TV does not support 1080P, a picture cannot be output even if the Blu-ray/DVD player is set to 1080P.
YES
(13) Is HDMI input set on the TV?
NO
Check the instruction manual of the TV and check the input setting.
YES
(14) 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 NG" displayed?
(See 22 page)
YES
•Check the circuits around the IP SCALER (U1026, HDMI PCB) and DDR2 (U1028/1029).
If there appear to be no problems, U1026 or U1028/1029 is faulty.
NO
See "NR1605_HDMI Rx-Tx Failure Detection Procedure Manual ver_1.00" of SDI.

4. AUDIO

4.1. AUDIO CHECK

No audio output

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

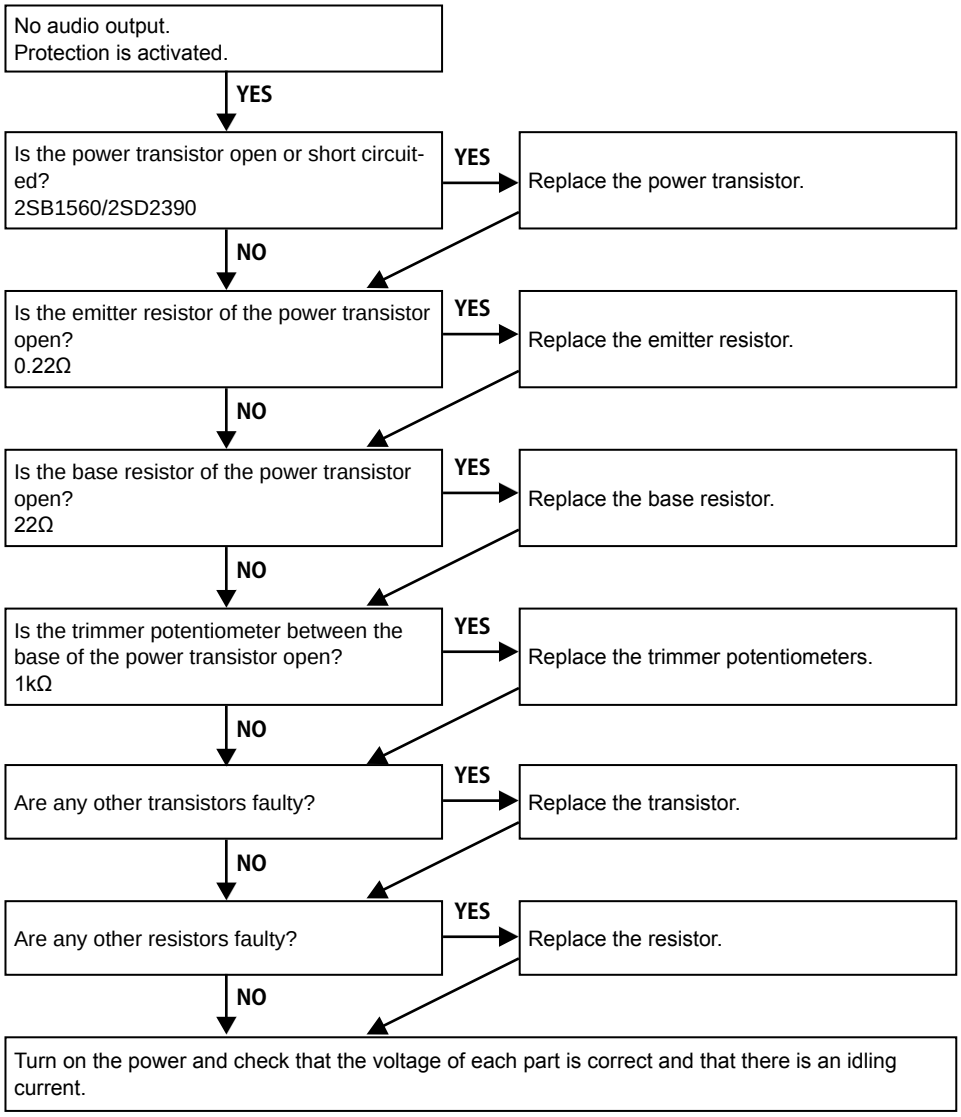
NO

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)

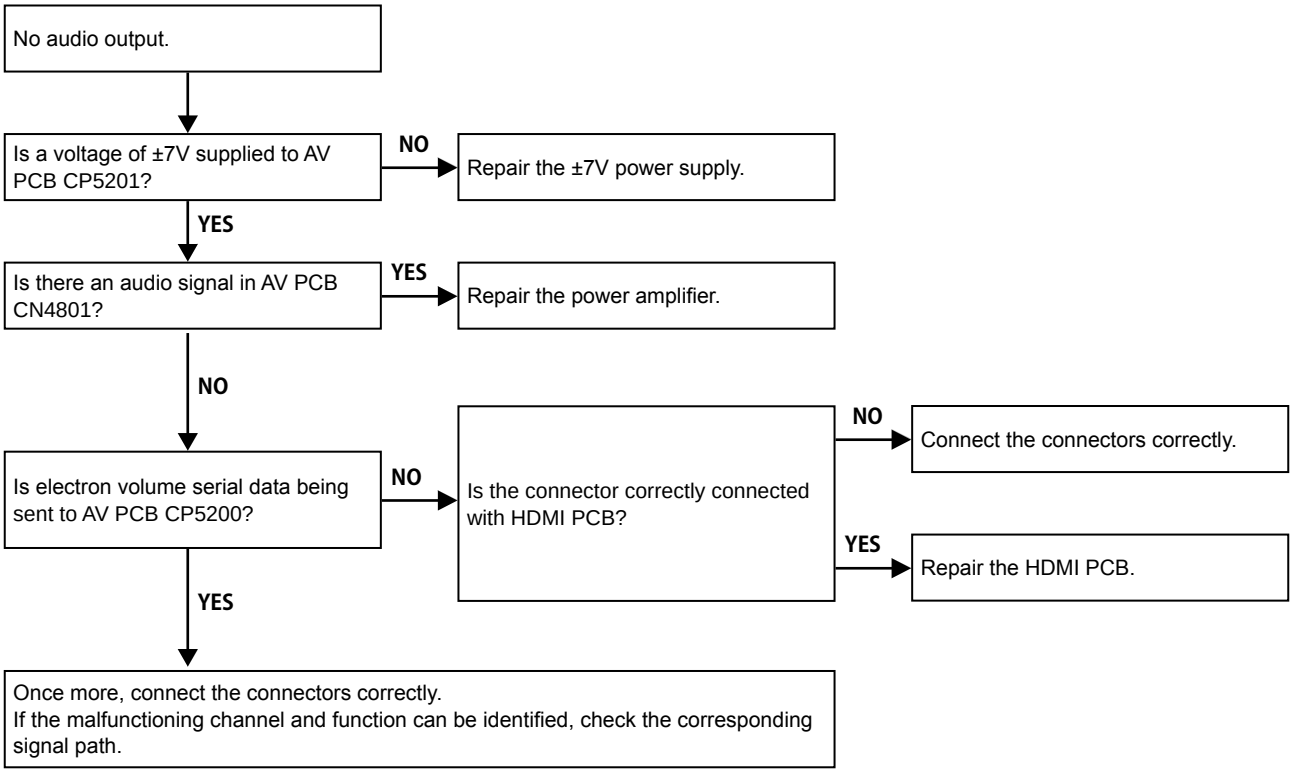
YES → Check the DIGITAL AUDIO BLOCK

NO → Check the HDMI BLOCK

4.2. Power AMP (AMP PCB)

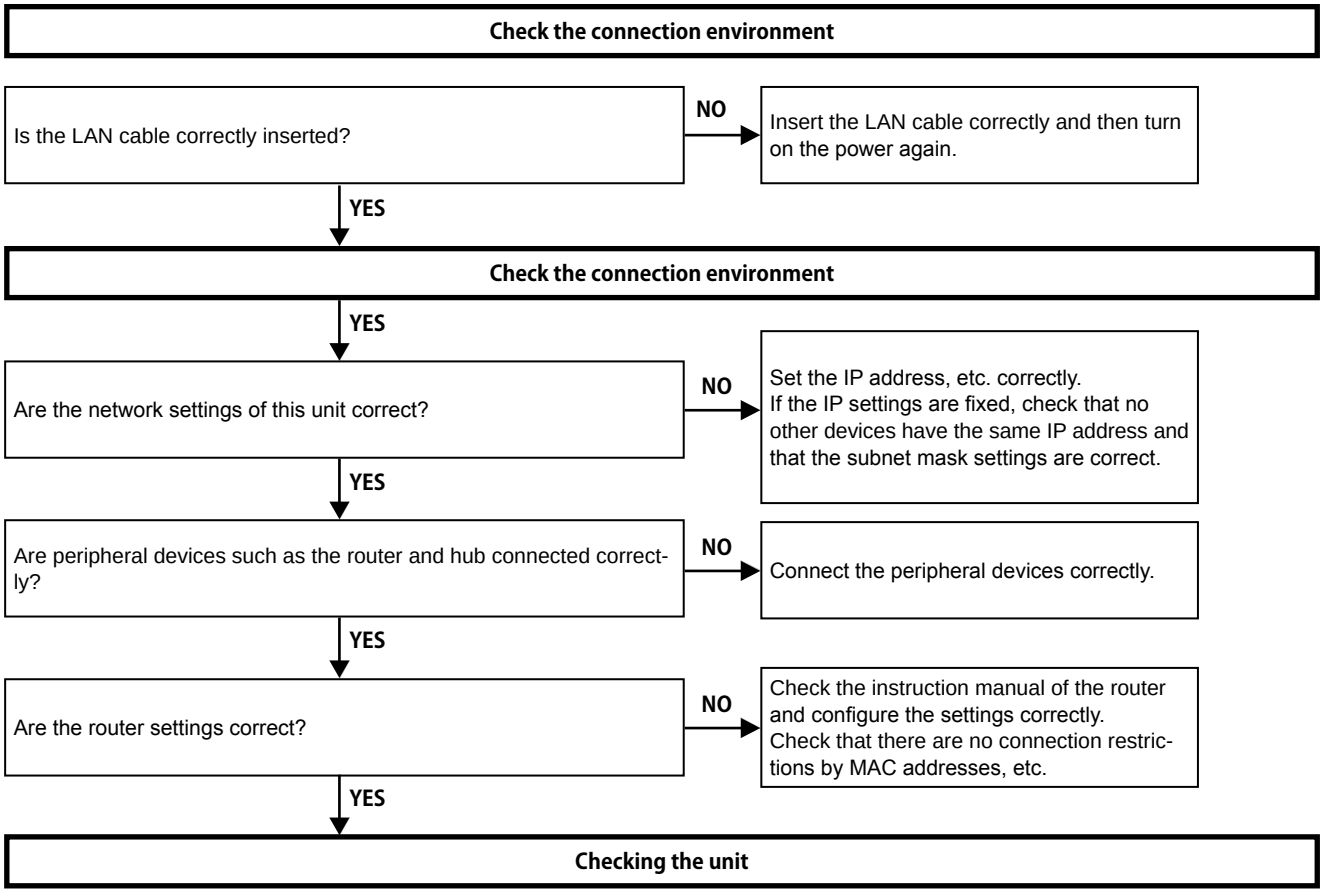


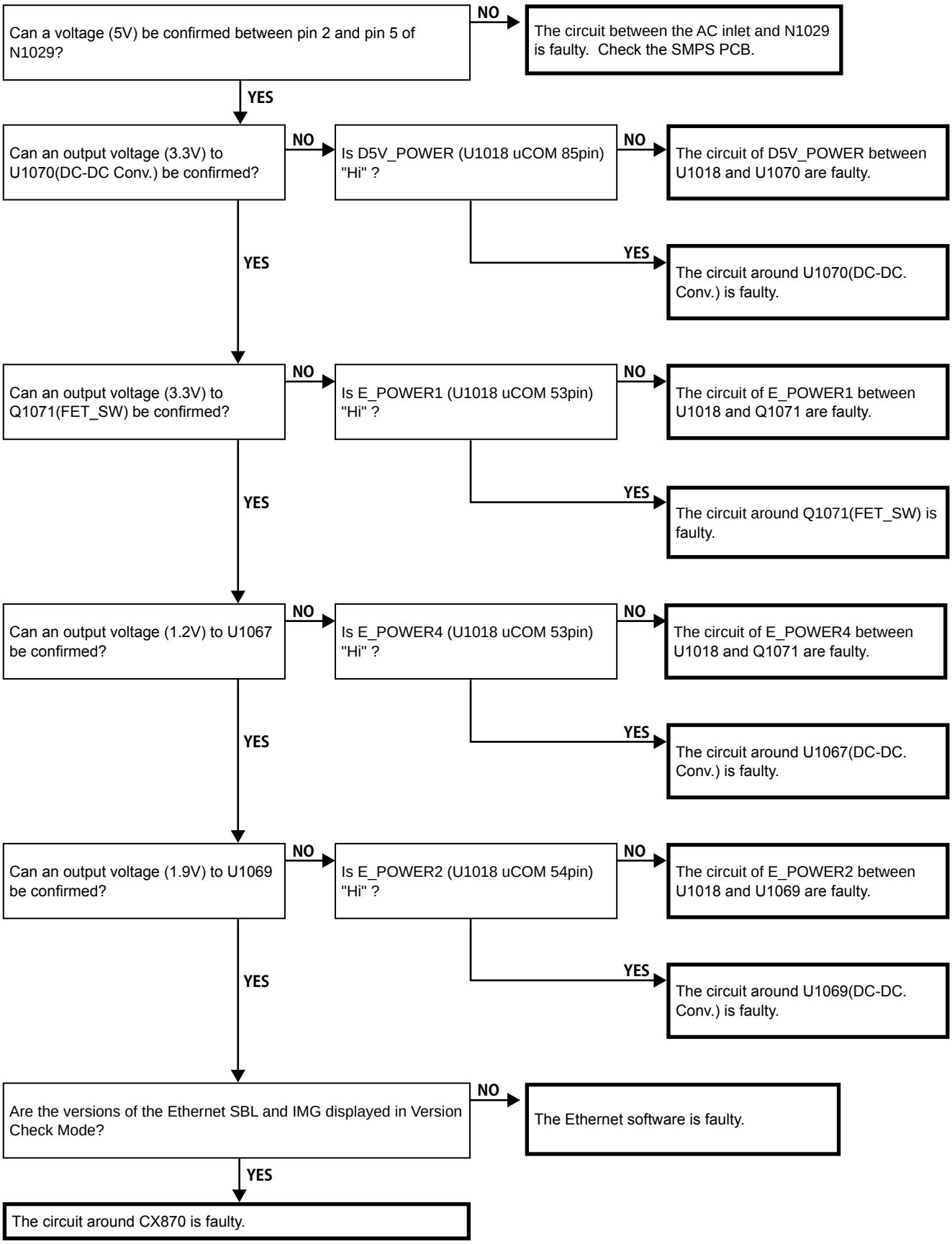
4.3. Analog audio



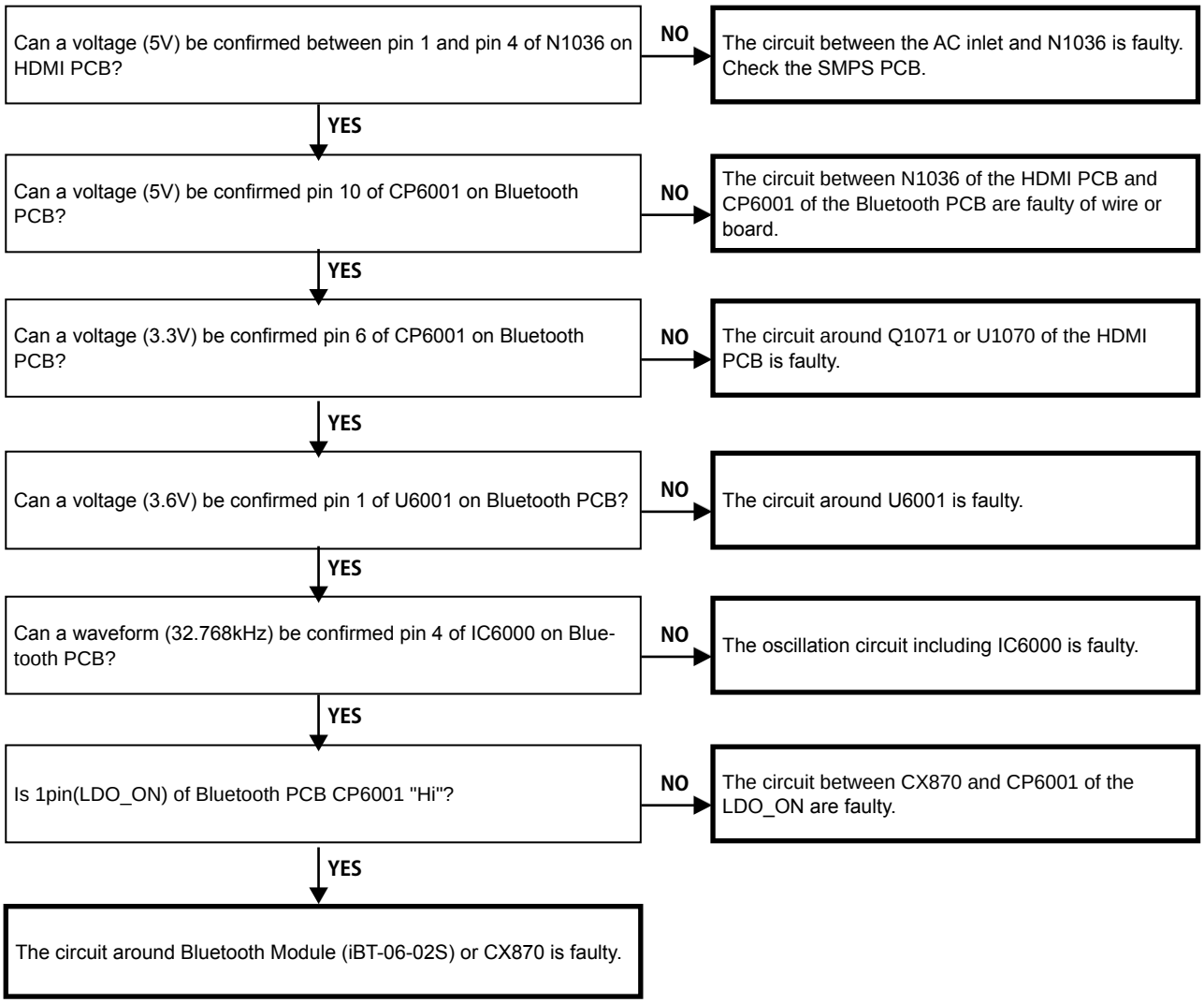
5. Network/Bluetooth/USB

5.1. Cannot connect to the network

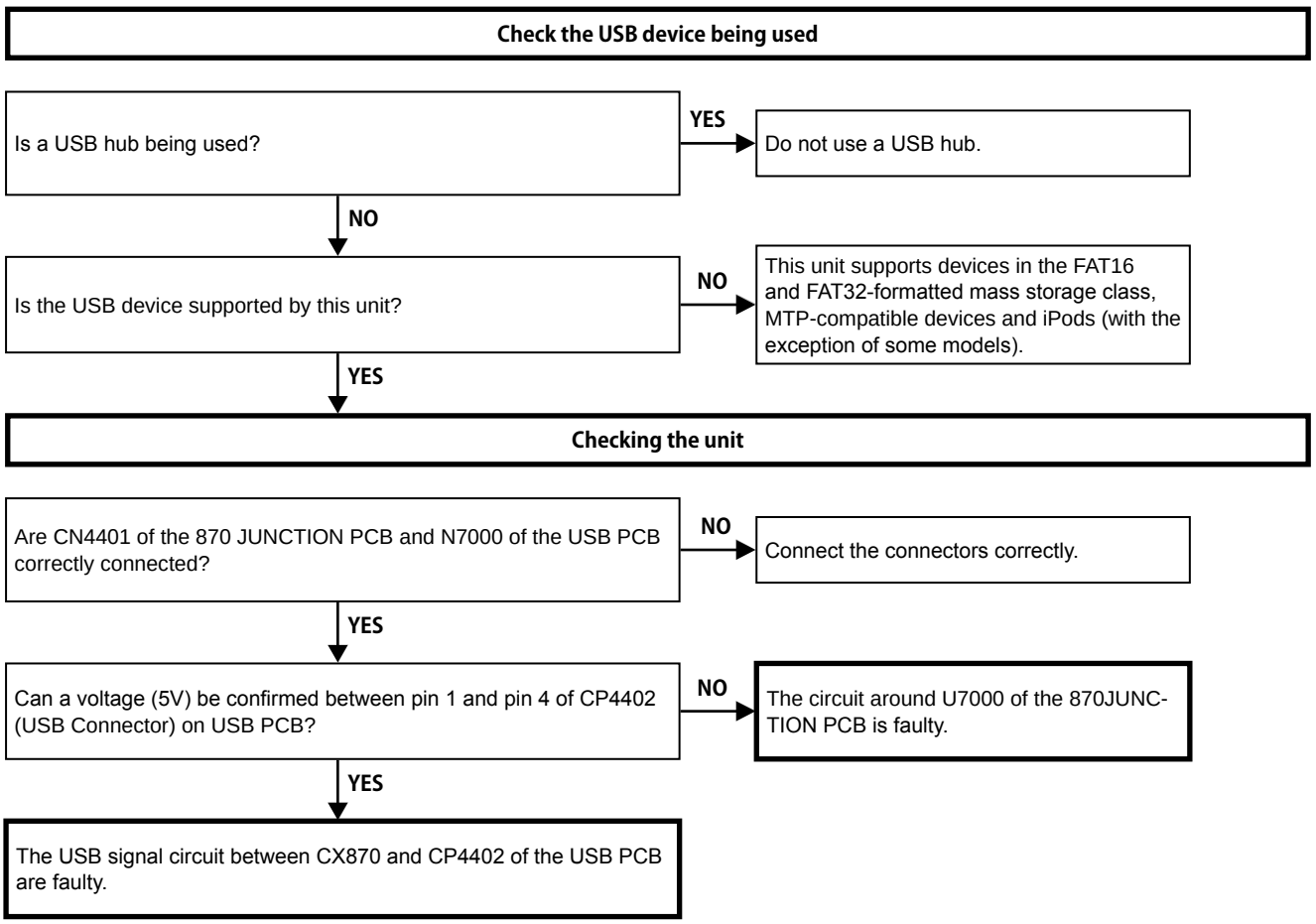



Can a voltage (5V) be confirmed between pin 2 and pin 5 of N1029?
NO
The circuit between the AC inlet and N1029 is faulty. Check the SMPS PCB.
YES
Can an output voltage (3.3V) to U1070(DC-DC Conv.) be confirmed?
NO
Is D5V_POWER (U1018 uCOM 85pin) "Hi" ?
NO
The circuit of D5V_POWER between U1018 and U1070 are faulty.
YES
The circuit around U1070(DC-DC. Conv.) is faulty.
YES
Can an output voltage (3.3V) to Q1071(FET_SW) be confirmed?
NO
Is E_POWER1 (U1018 uCOM 53pin) "Hi" ?
NO
The circuit of E_POWER1 between U1018 and Q1071 are faulty.
YES
The circuit around Q1071(FET_SW) is faulty.
YES
Can an output voltage (1.2V) to U1067 be confirmed?
NO
Is E_POWER4 (U1018 uCOM 53pin) "Hi" ?
NO
The circuit of E_POWER4 between U1018 and Q1071 are faulty.
YES
The circuit around U1067(DC-DC. Conv.) is faulty.
YES
Can an output voltage (1.9V) to U1069 be confirmed?
NO
Is E_POWER2 (U1018 uCOM 54pin) "Hi" ?
NO
The circuit of E_POWER2 between U1018 and U1069 are faulty.
YES
The circuit around U1069(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.

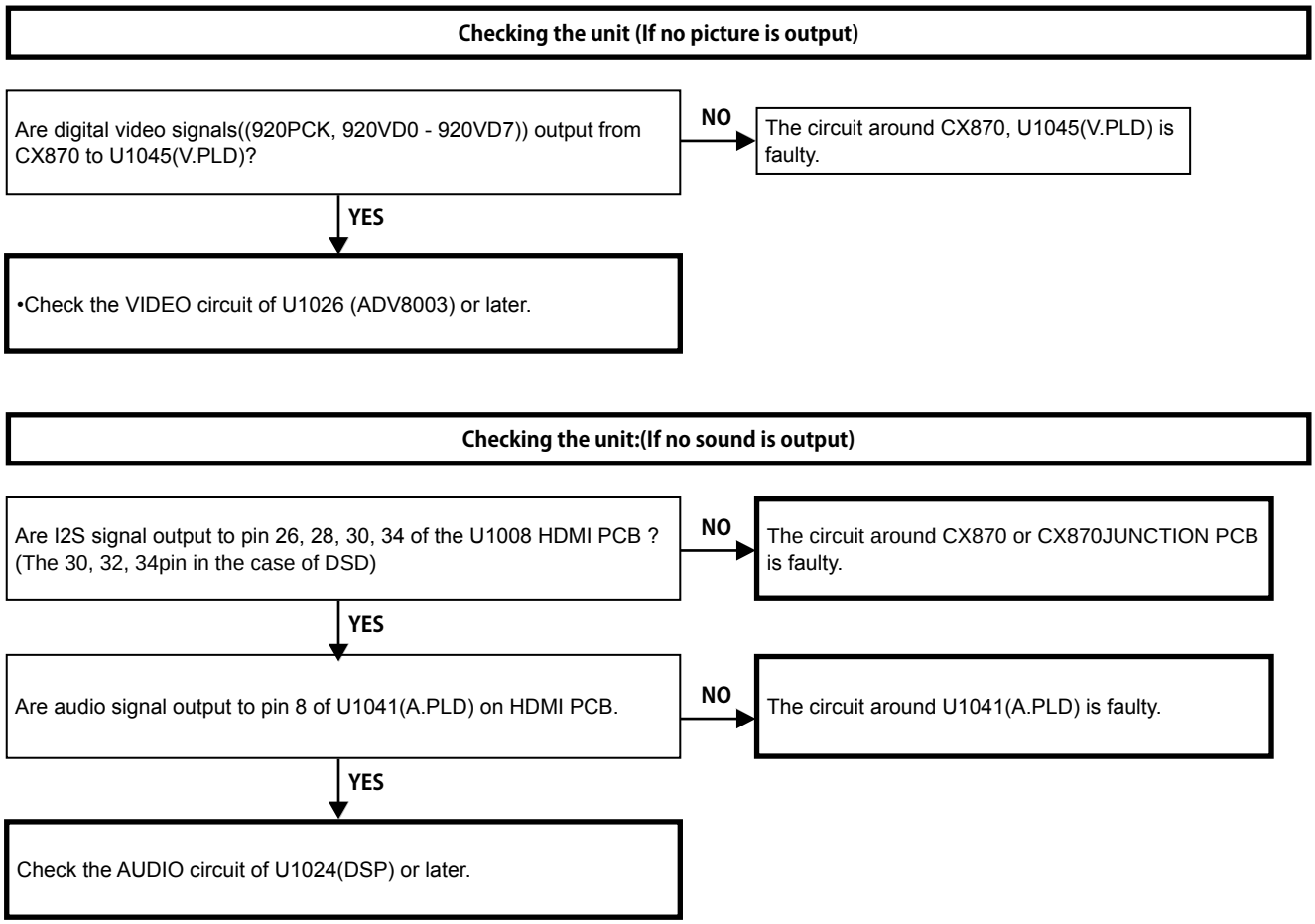
5.2. Cannot connect to the Bluetooth



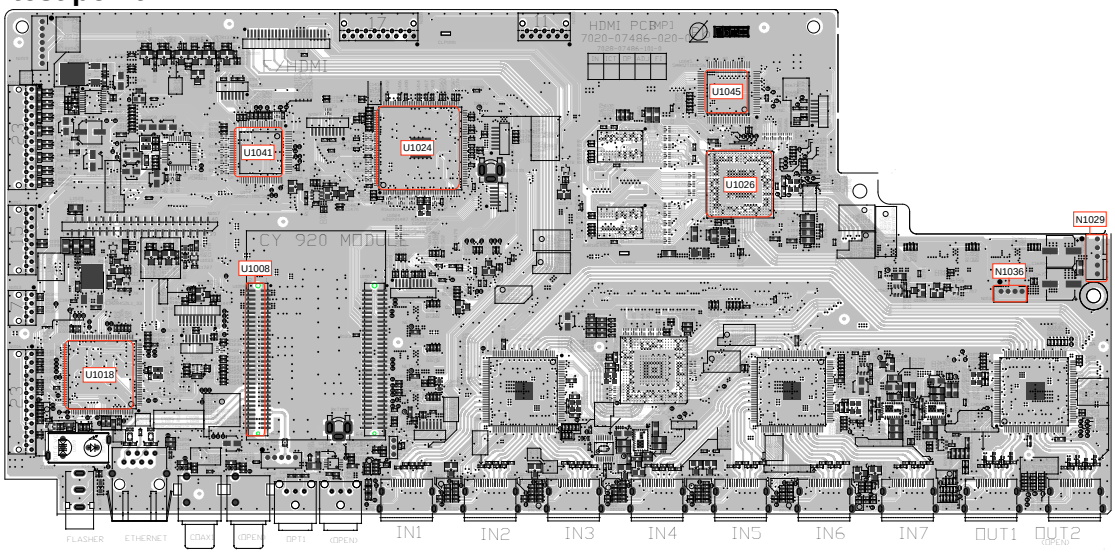
5.3. A connected USB device is not recognized.



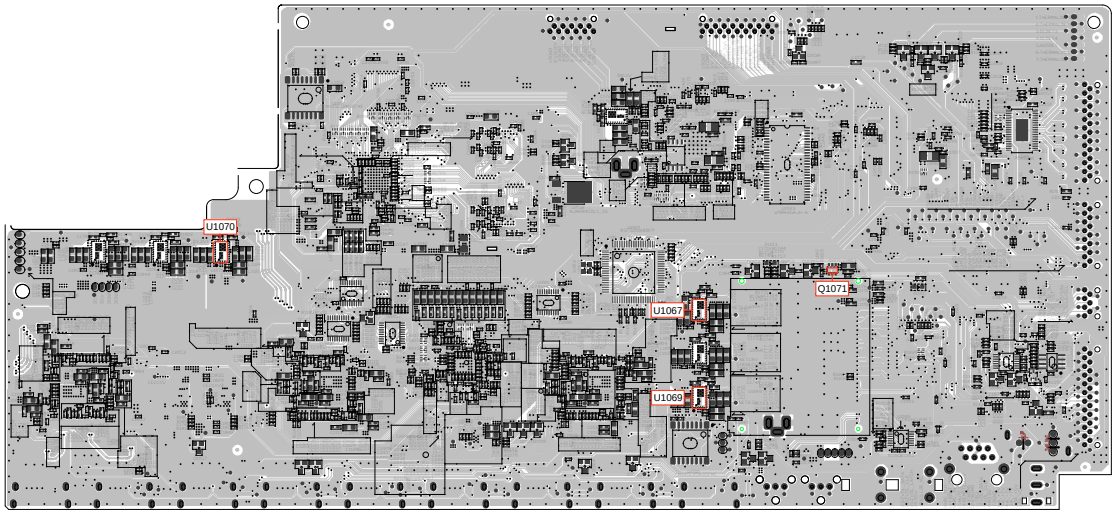
5.3. No picture or sound is output



HDMI test point

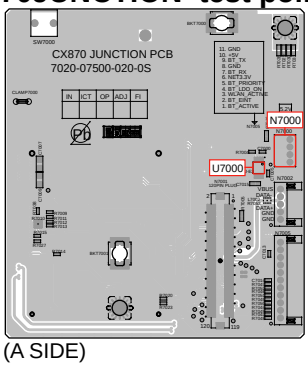


(A SIDE)



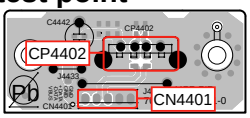
(B SIDE)

CX870JUNCTION test point



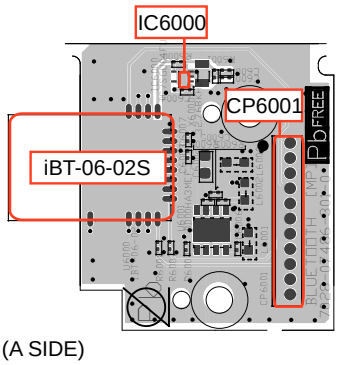
(A SIDE)

USB test point



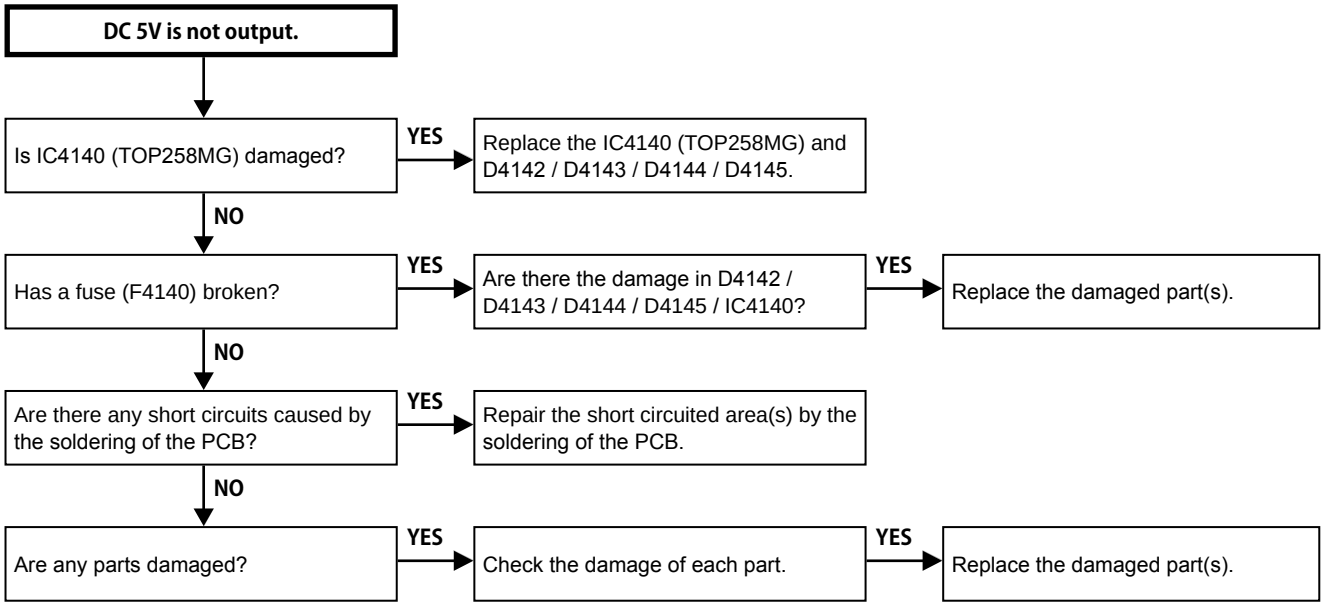
(A SIDE)

Bluetooth test point

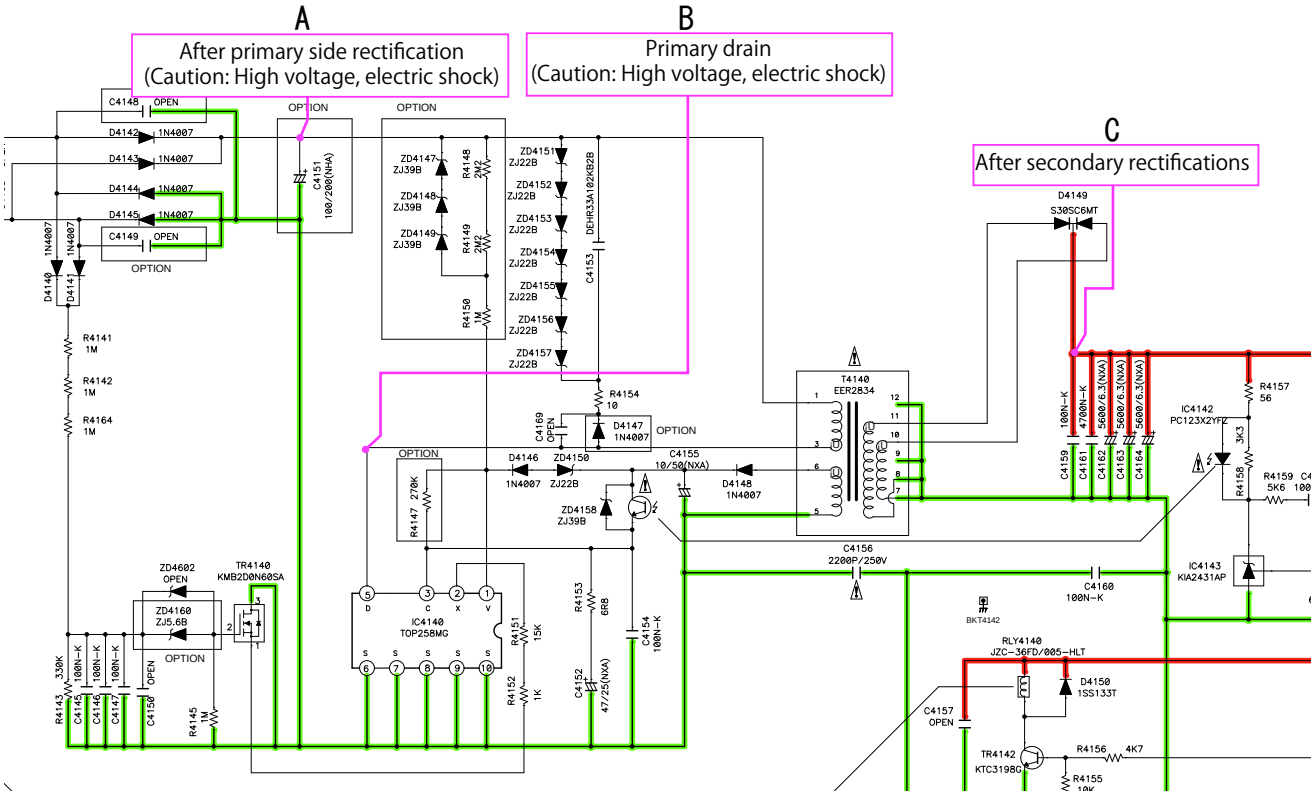


(A SIDE)

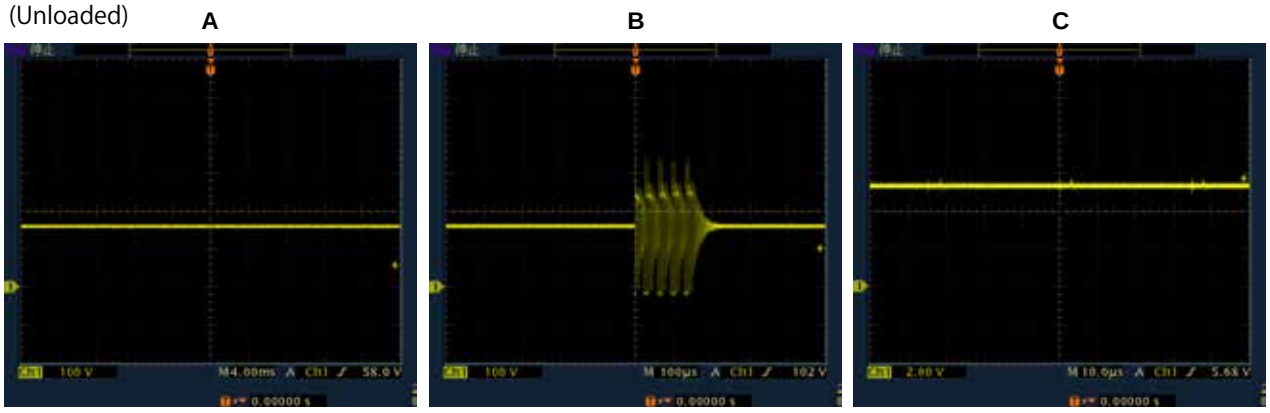
6. SMPS


DC 5V is not output.
Is IC4140 (TOP258MG) damaged?
YES
Replace the IC4140 (TOP258MG) and D4142 / D4143 / D4144 / D4145.
NO
Has a fuse (F4140) broken?
YES
Are there the damage in D4142 / D4143 / D4144 / D4145 / IC4140?
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 part(s).

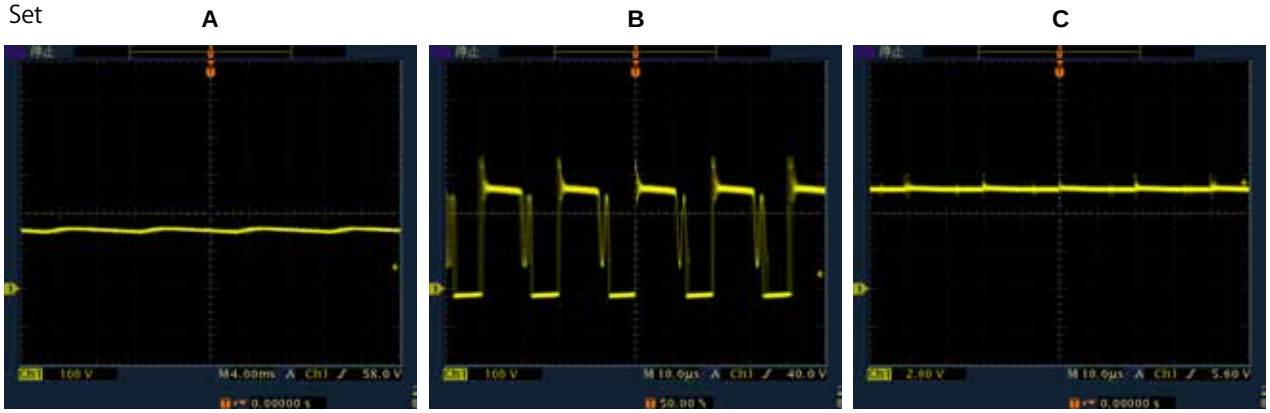
Operation waveform for each part



SMPS unit
(Unloaded)

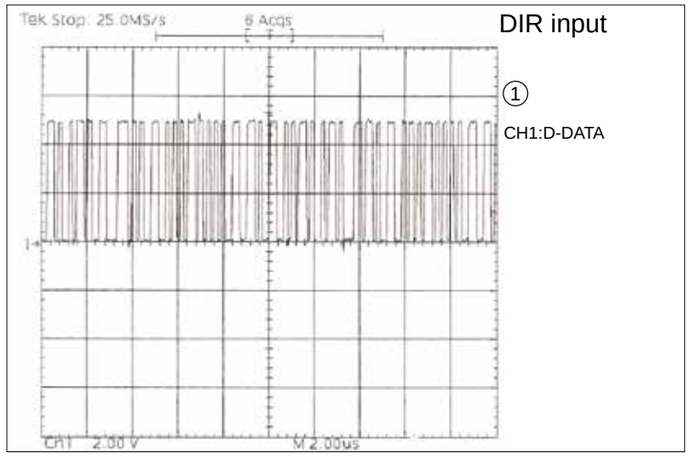


Set



CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

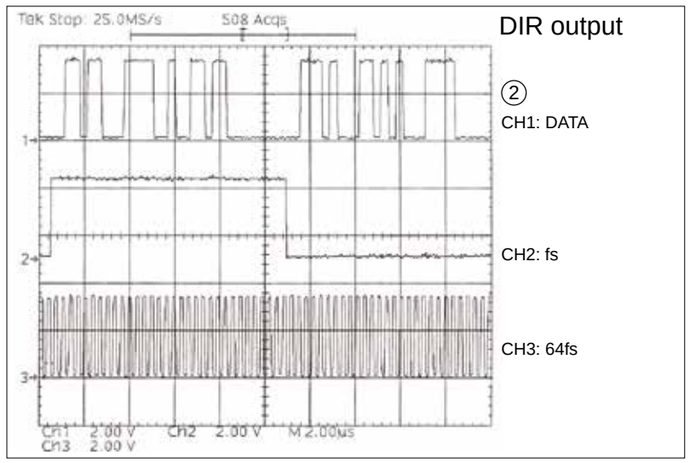
WAVE FORM



DIR input

①

CH1:D-DATA



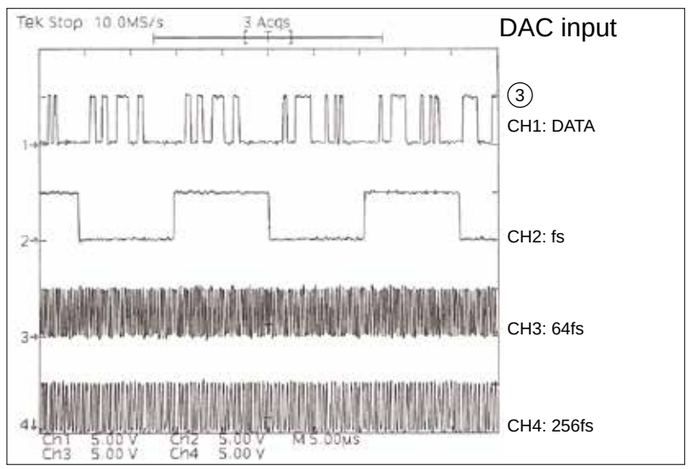
DIR output

②

CH1: DATA

CH2: fs

CH3: 64fs



DAC input

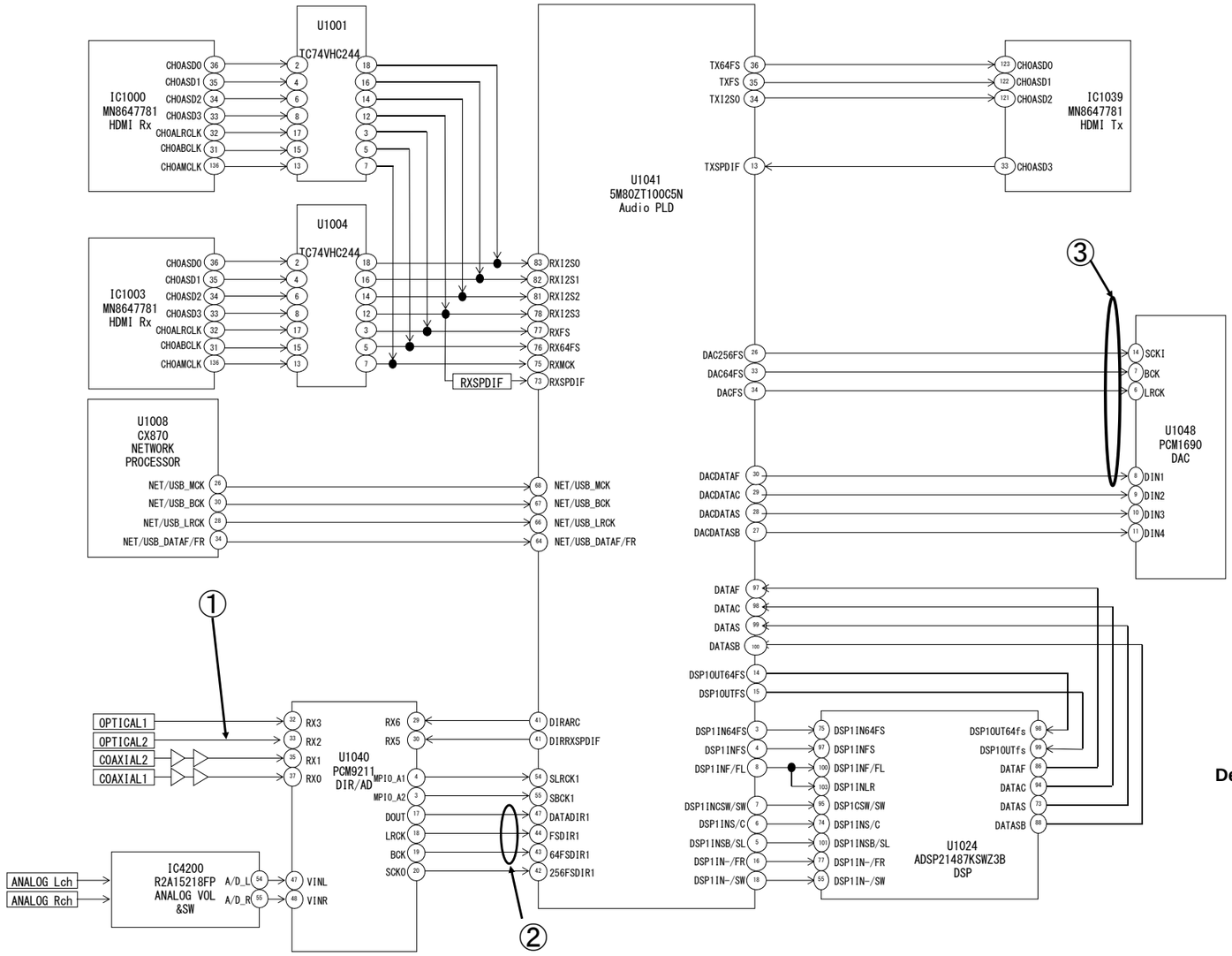
③

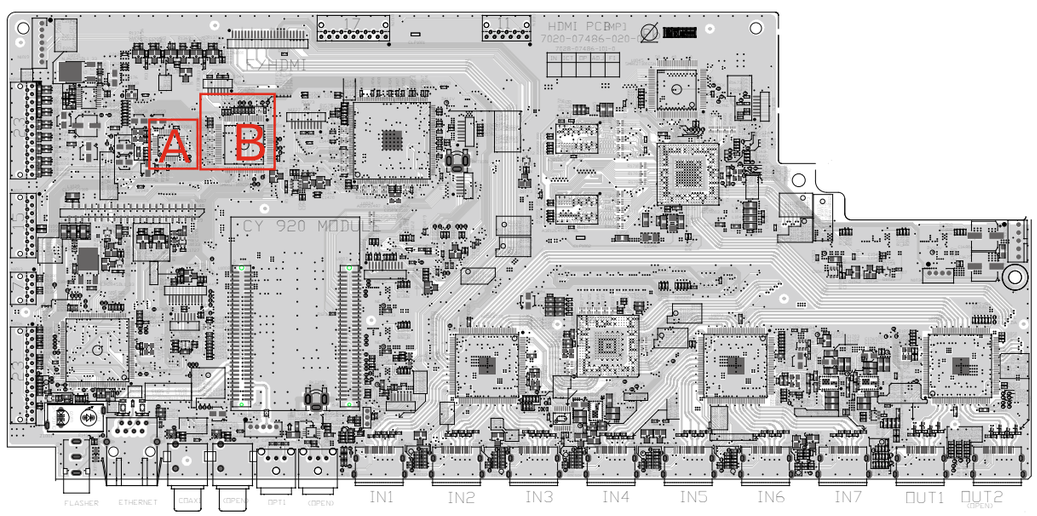
CH1: DATA

CH2: fs

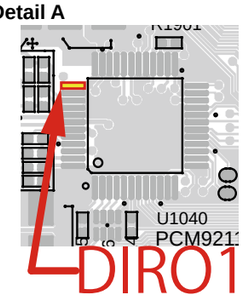
CH3: 64fs

CH4: 256fs





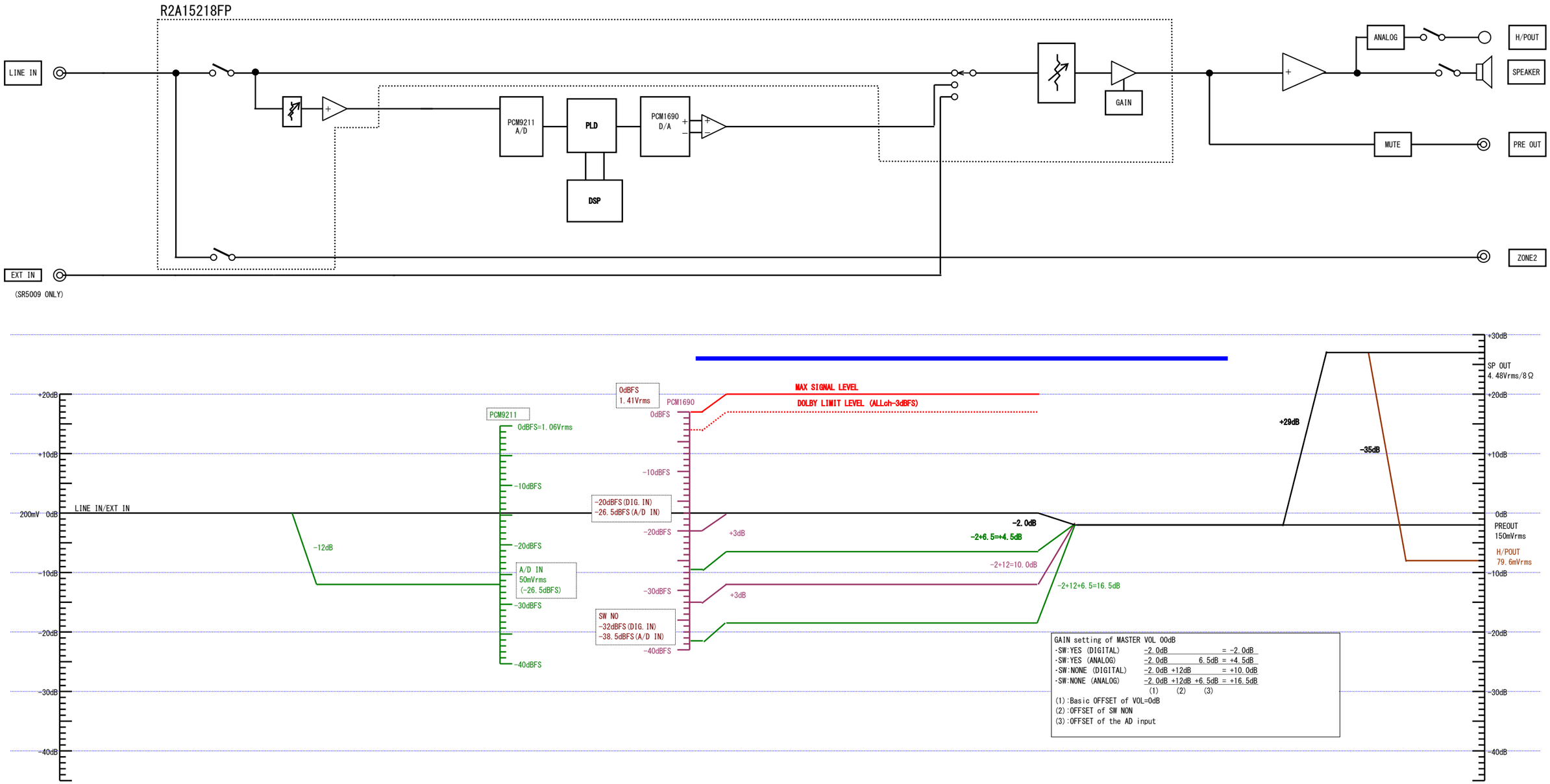
Detail A



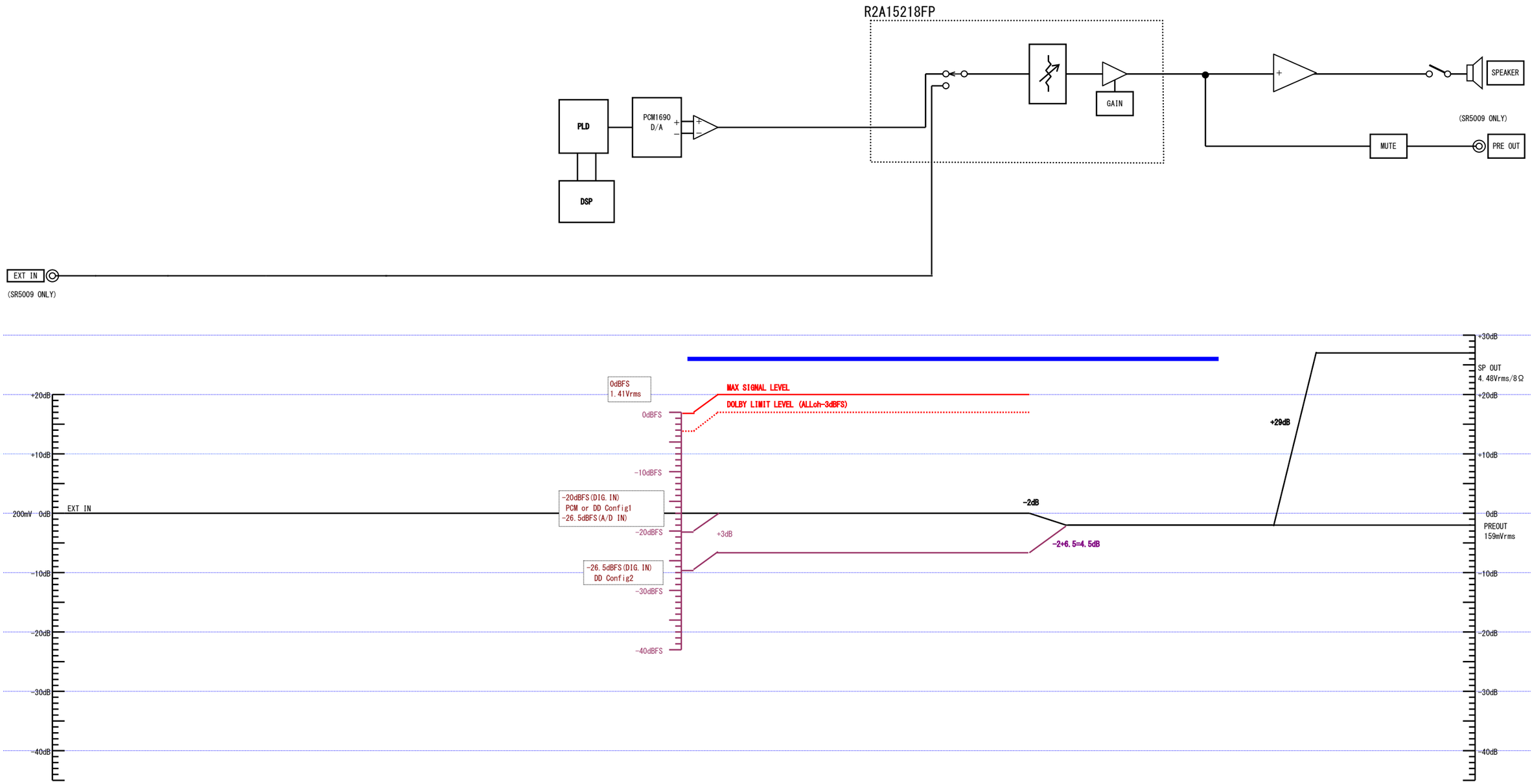
Detail B

LEVEL DIAGRAM

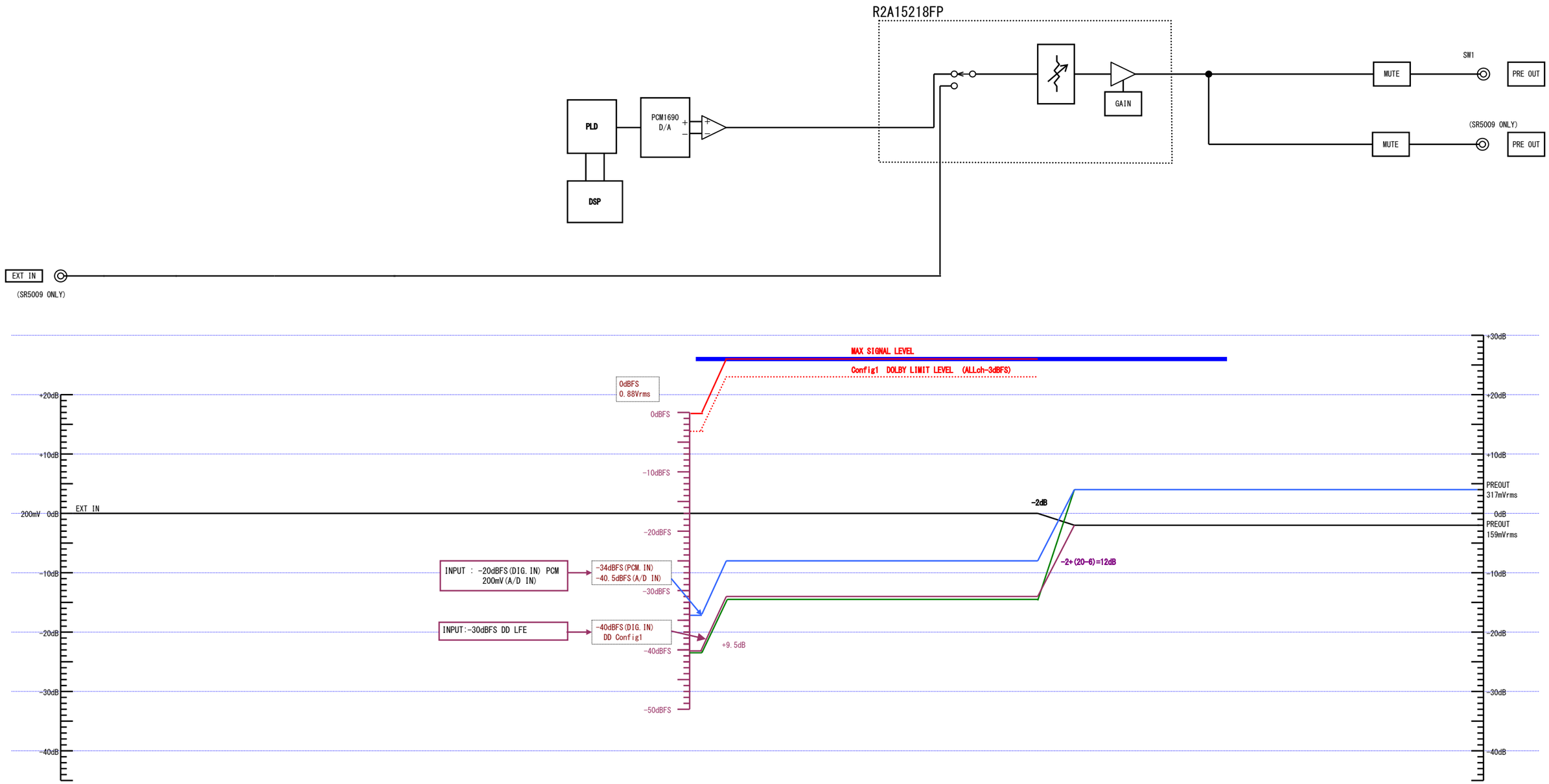
LEVEL DIAGRAM
FRONT ch



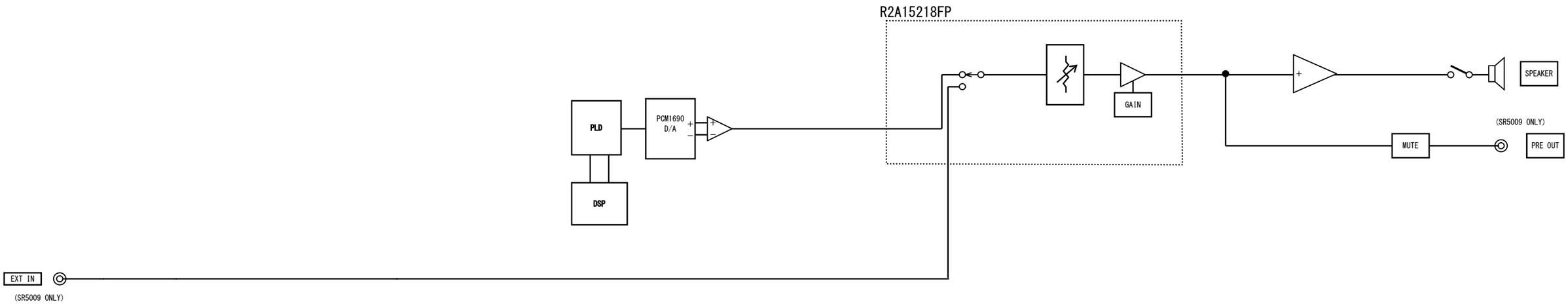
LEVEL DIAGRAM
CENTER ch

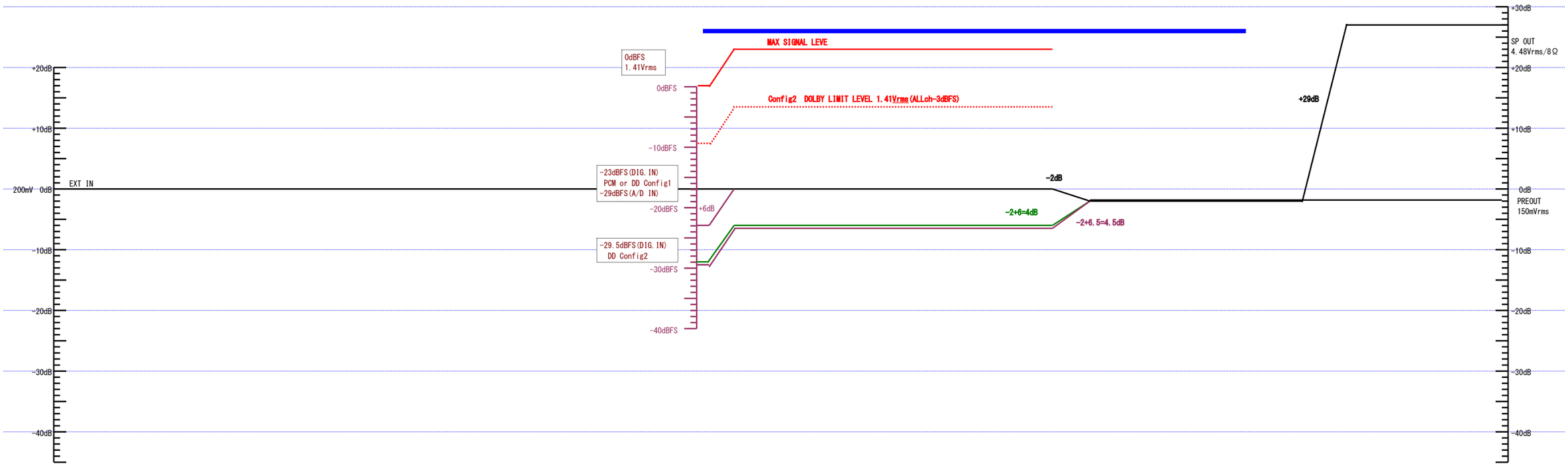


LEVEL DIAGRAM
SUBWOOFER ch

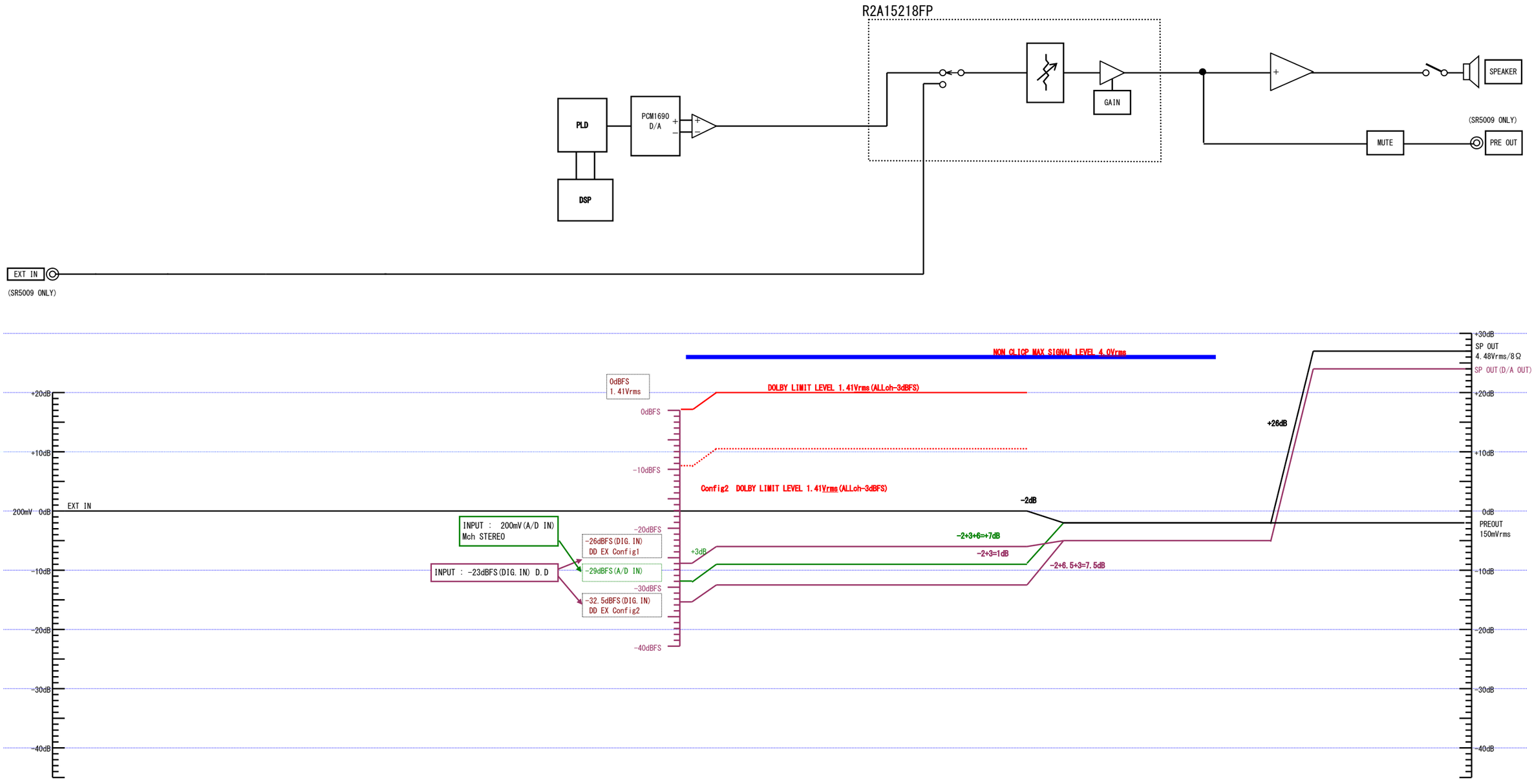


LEVEL DIAGRAM
SURROUND ch

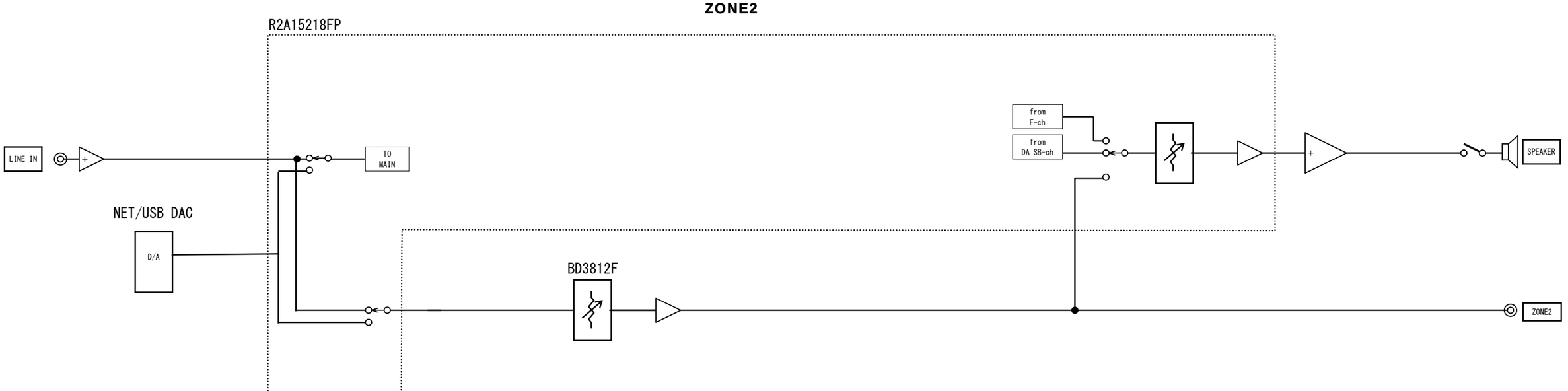




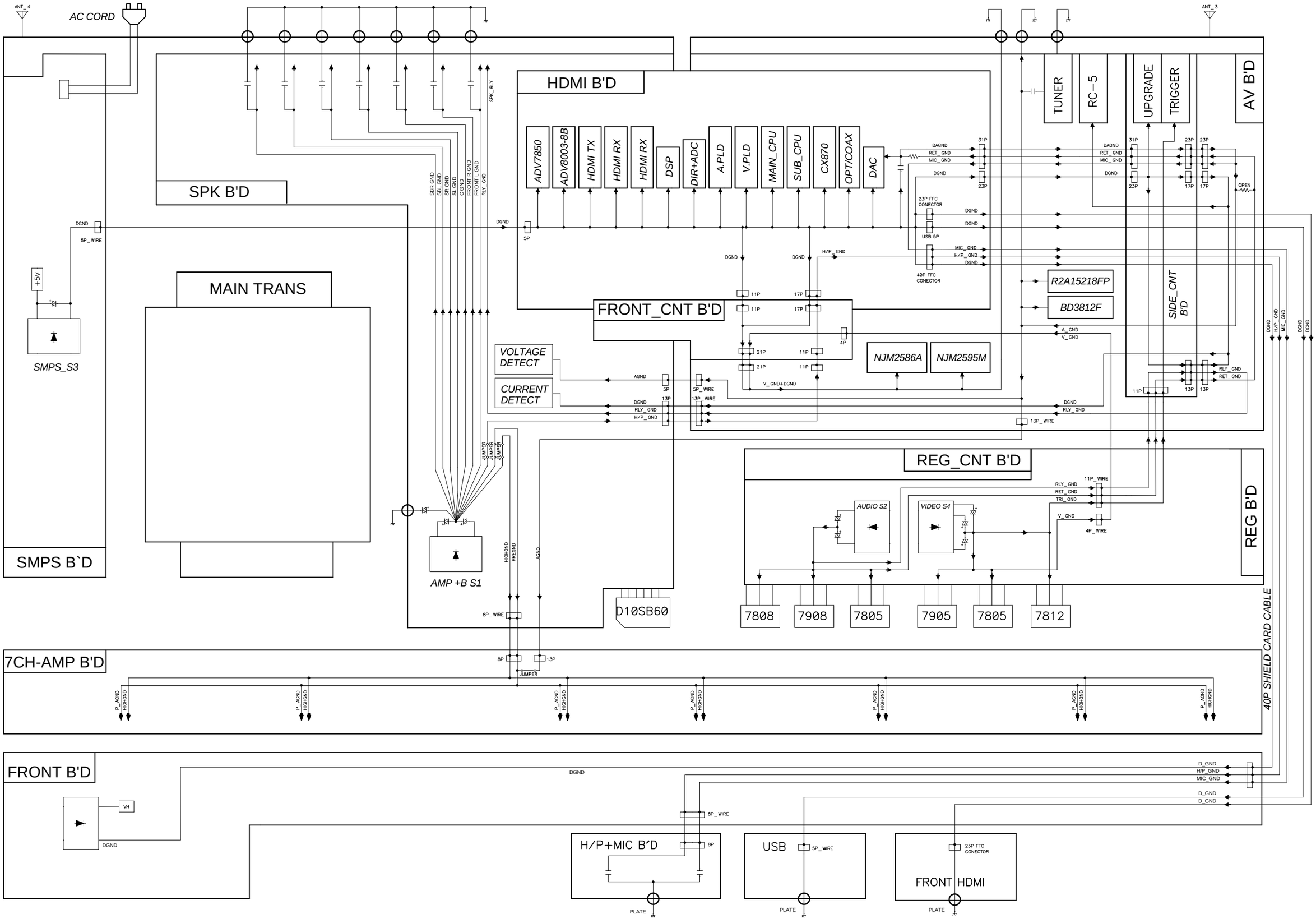
LEVEL DIAGRAM
SURR.BACK ch



LEVEL DIAGRAM
ZONE2

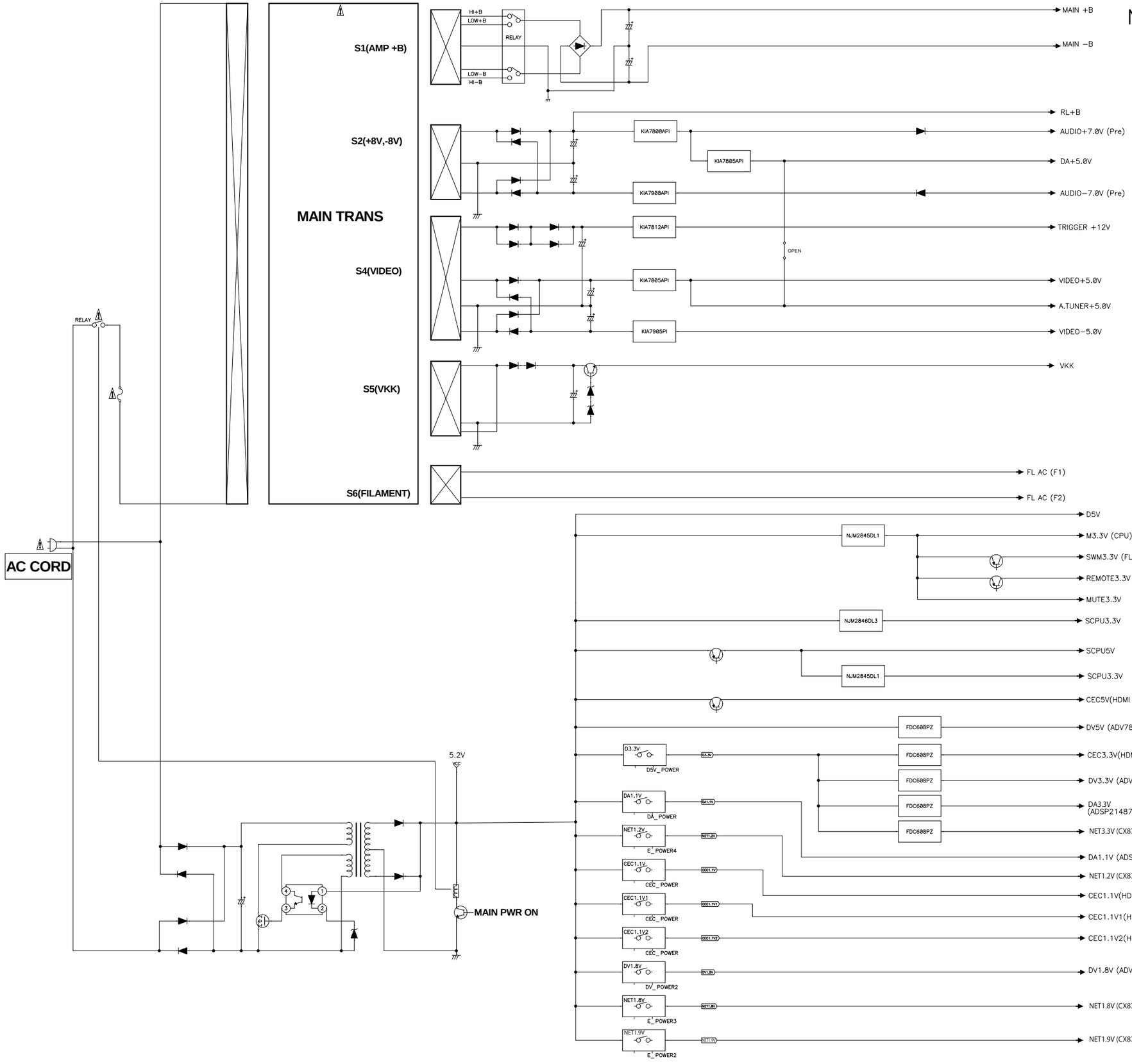


BLOCK DIAGRAM

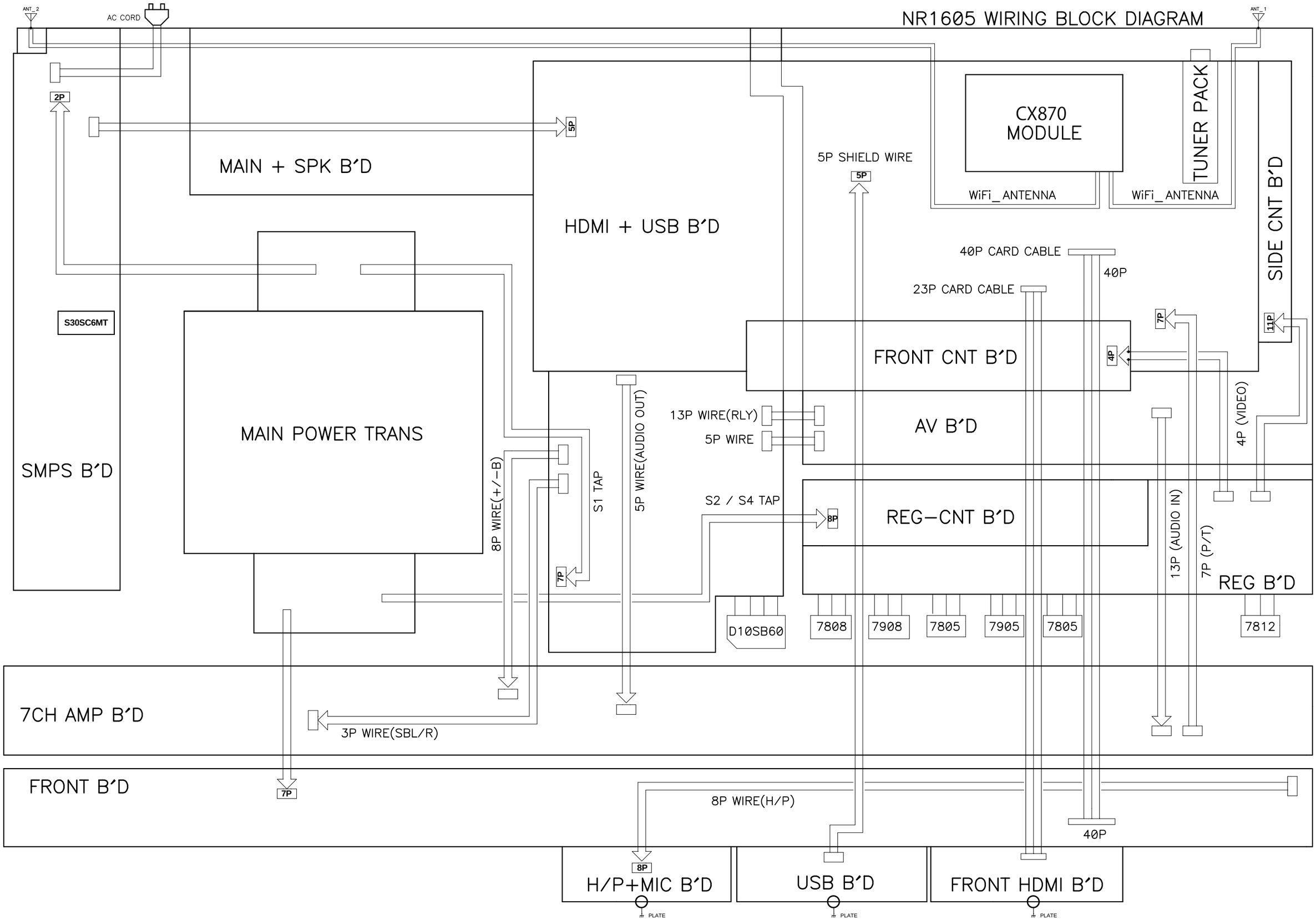


POWER DIAGRAM

NR1605 VCC DIAGRAM



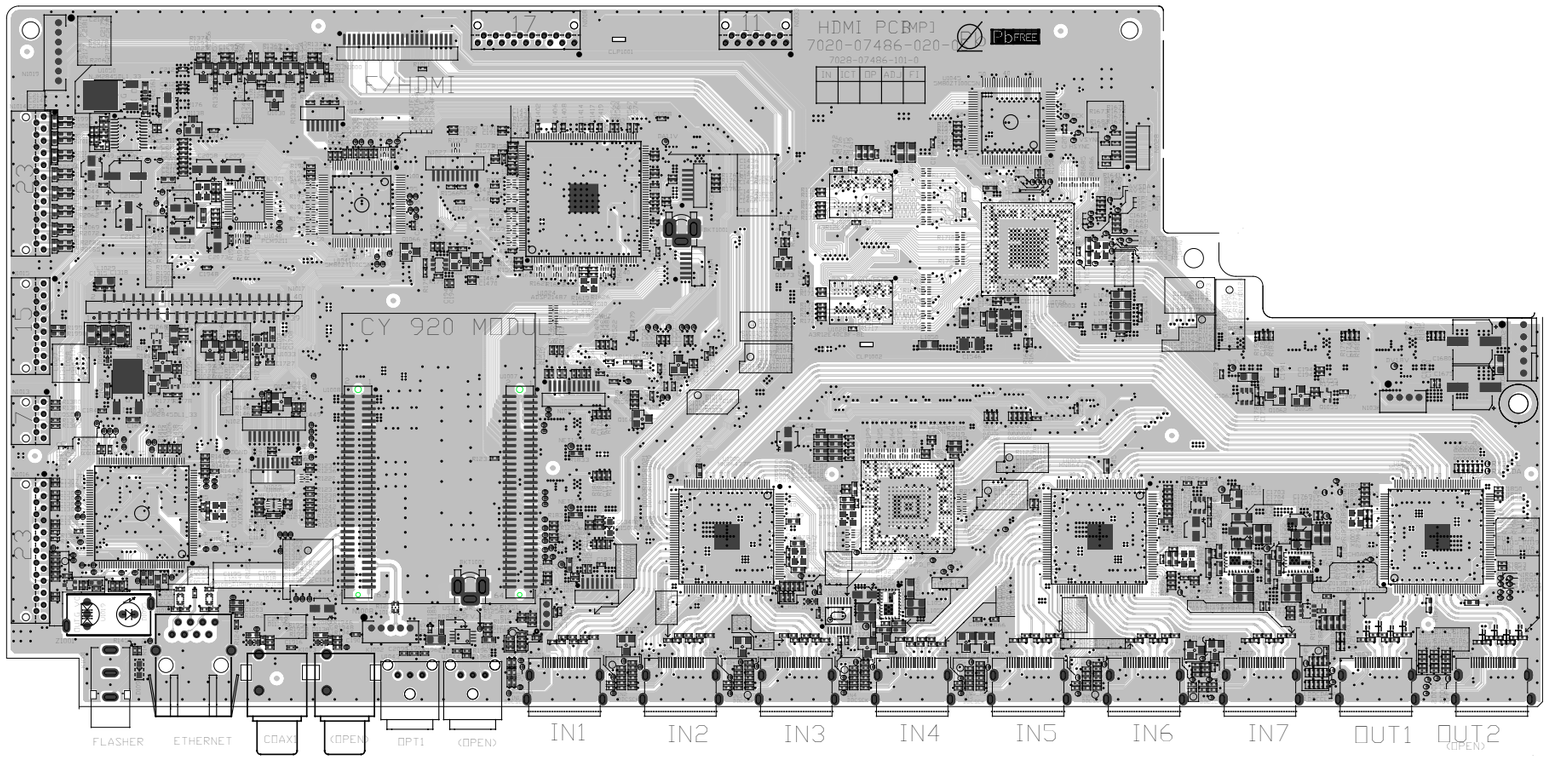
WIRING DIAGRAM



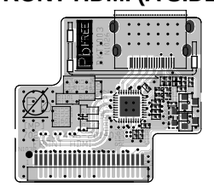
PRINTED CIRCUIT BOARDS

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

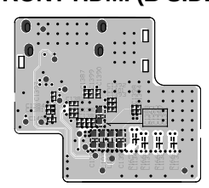
HDMI (A SIDE)



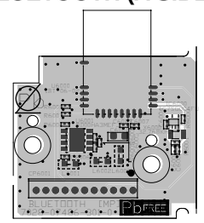
FRONT HDMI (A SIDE)



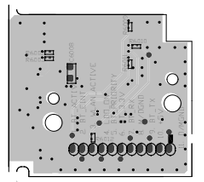
FRONT HDMI (B SIDE)



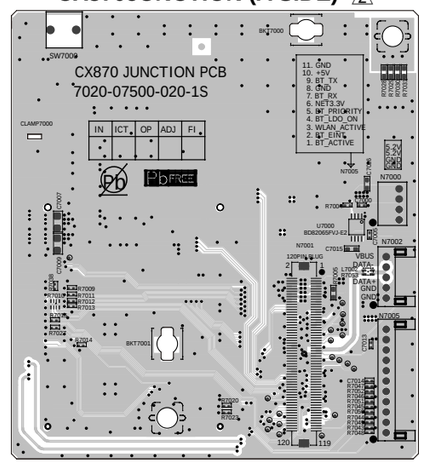
BLUETOOTH (A SIDE)



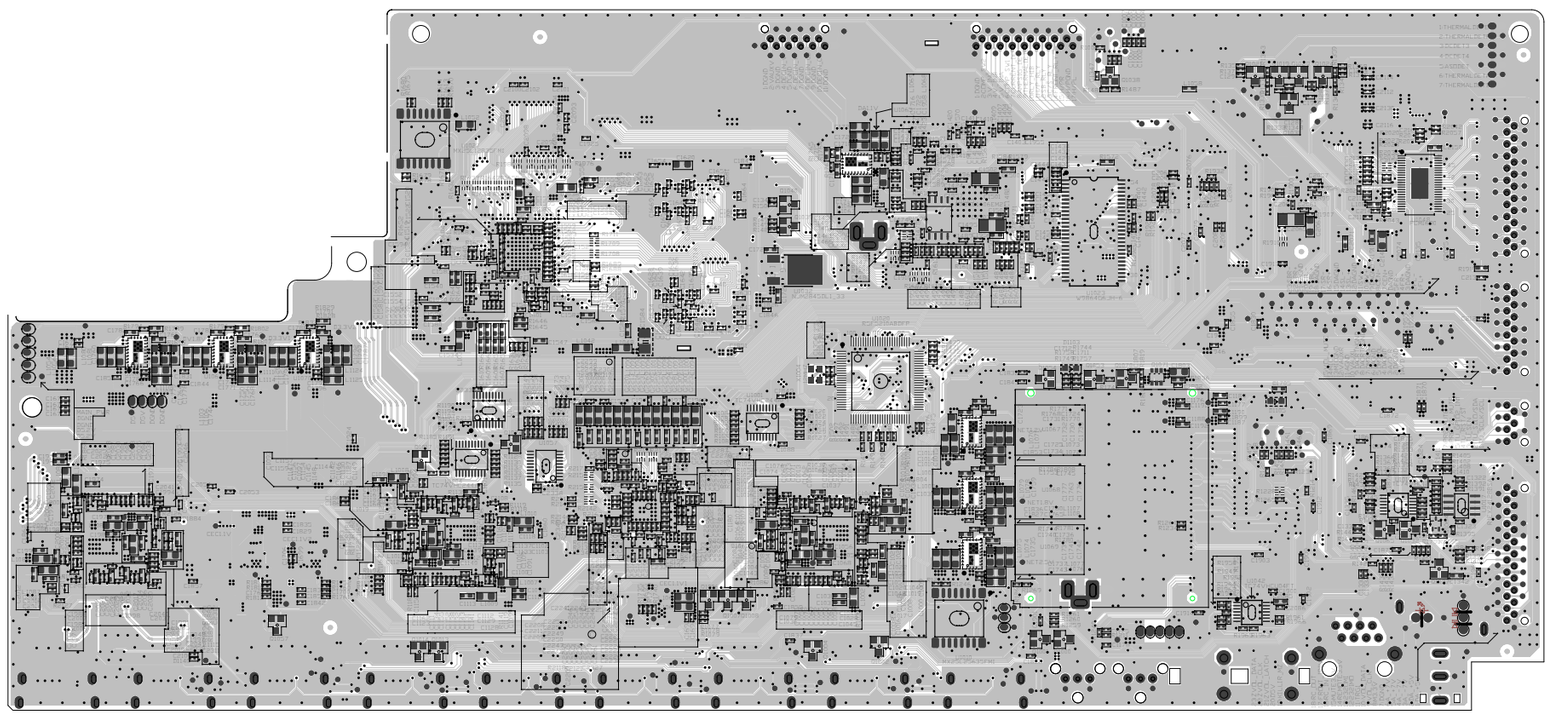
BLUETOOTH (B SIDE)



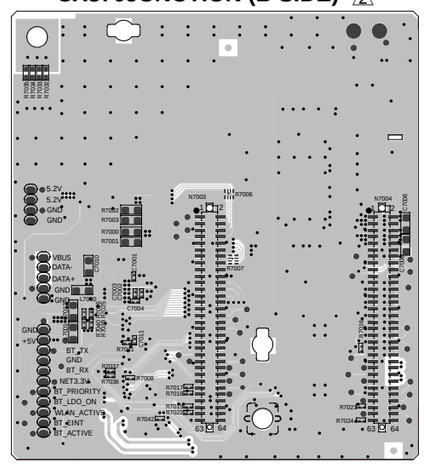
CX870JUNCTION (A SIDE) ⚠2



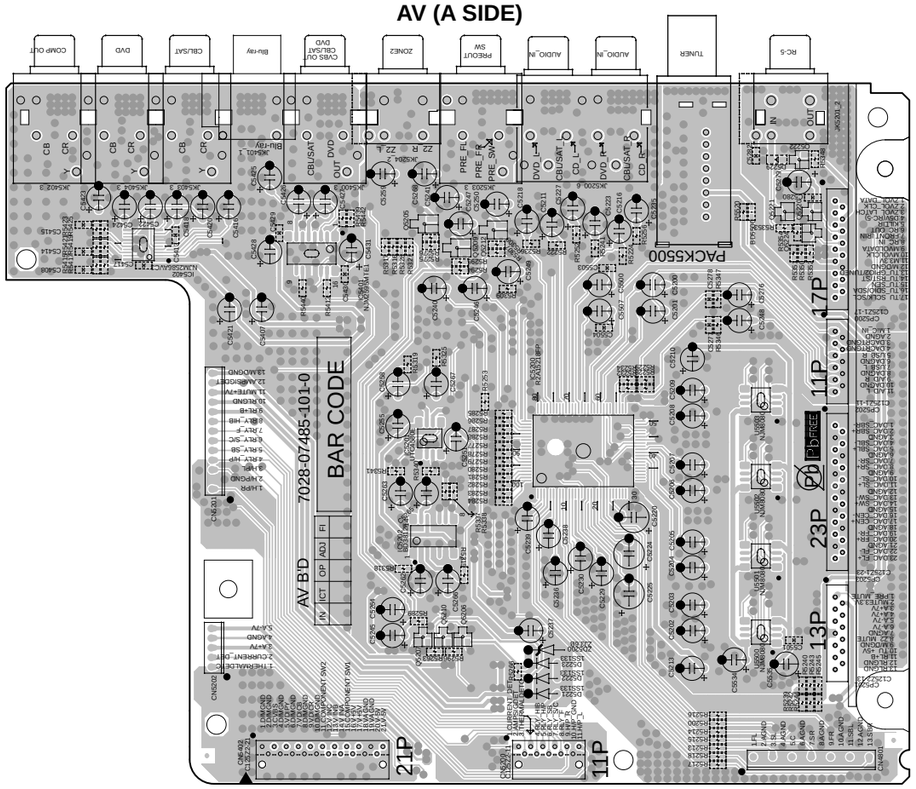
HDMI (B SIDE)



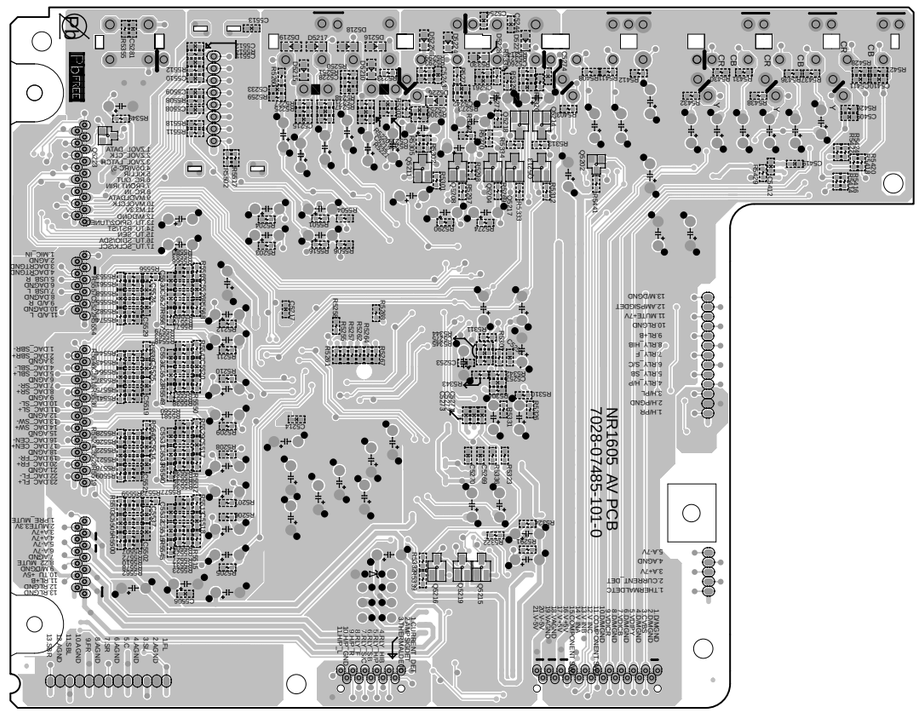
CX870JUNCTION (B SIDE) ⚠2



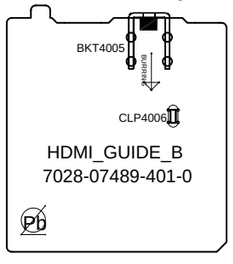
AV (A SIDE)



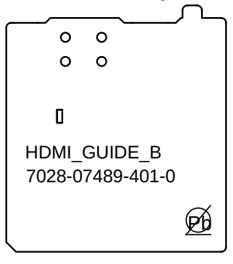
AV (B SIDE)



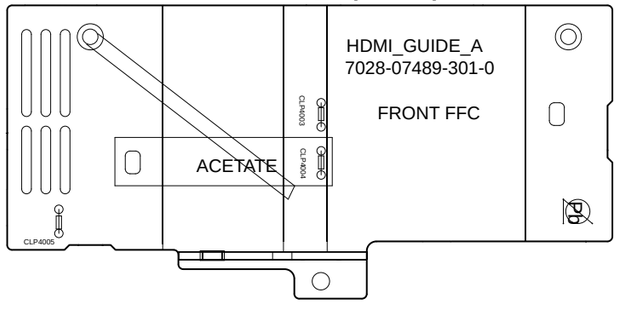
HDMI GUIDE_B (A SIDE)



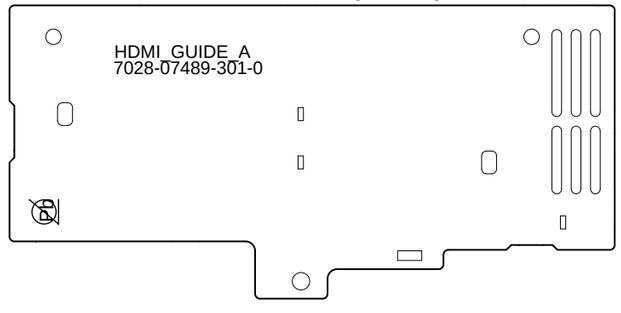
HDMI GUIDE_B (B SIDE)



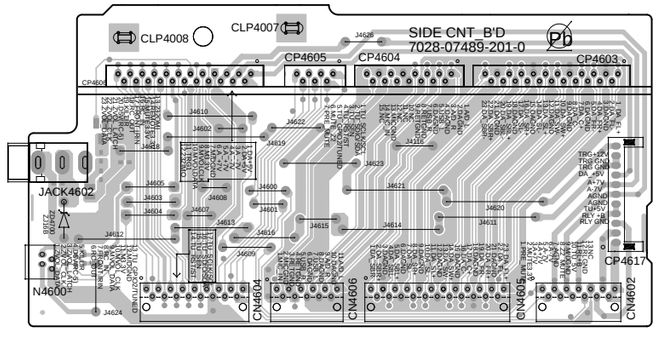
HDMI GUIDE_A (A SIDE)



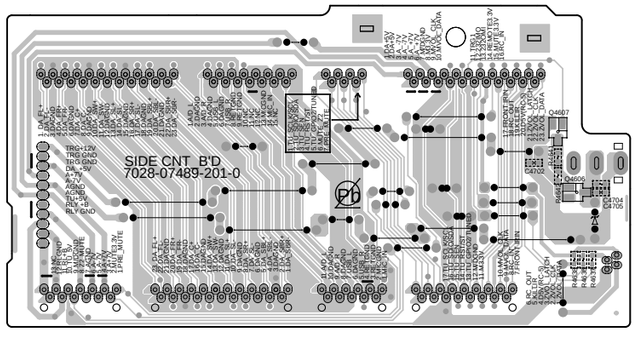
HDMI GUIDE_A (B SIDE)



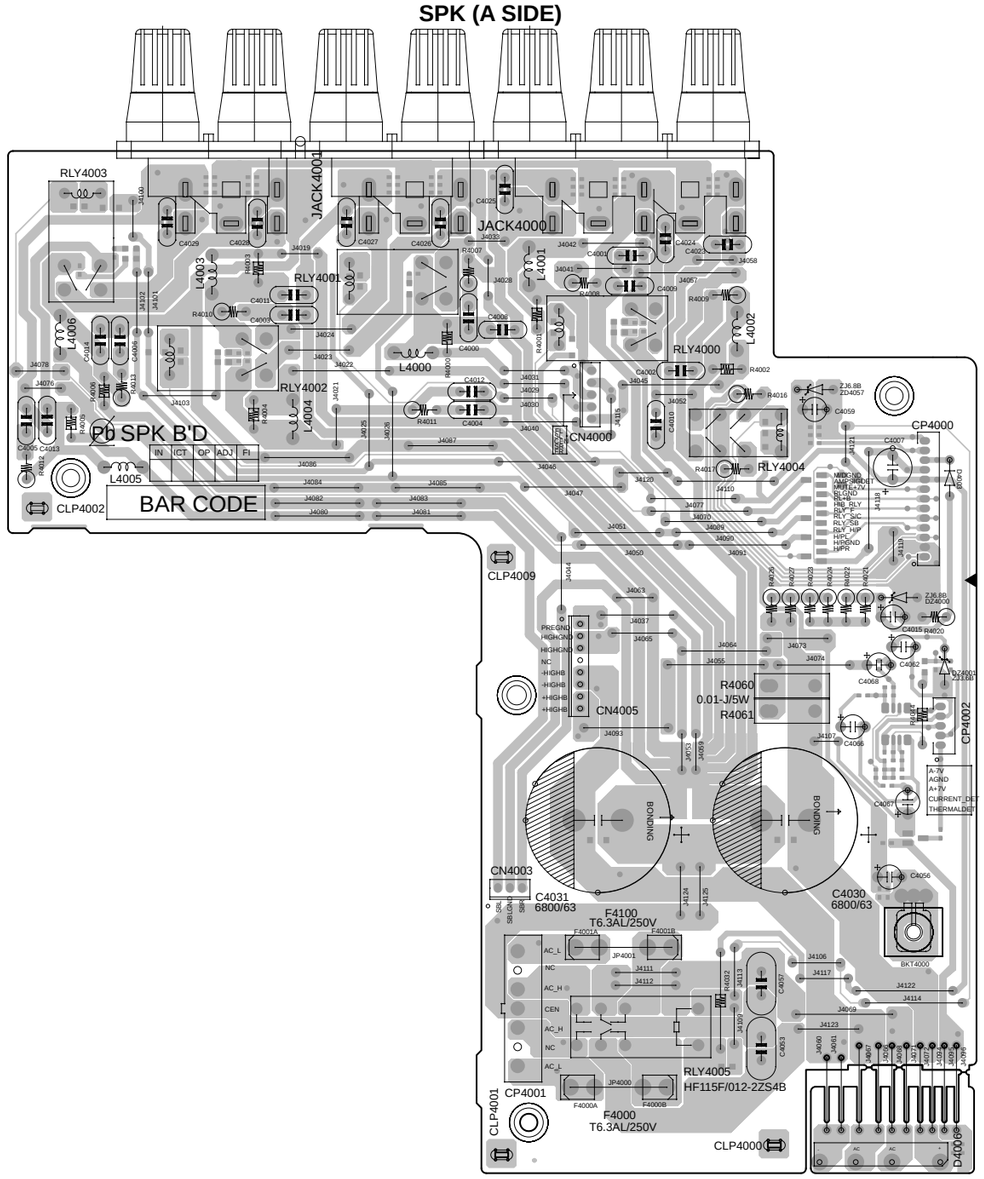
SIDE CNT (A SIDE)



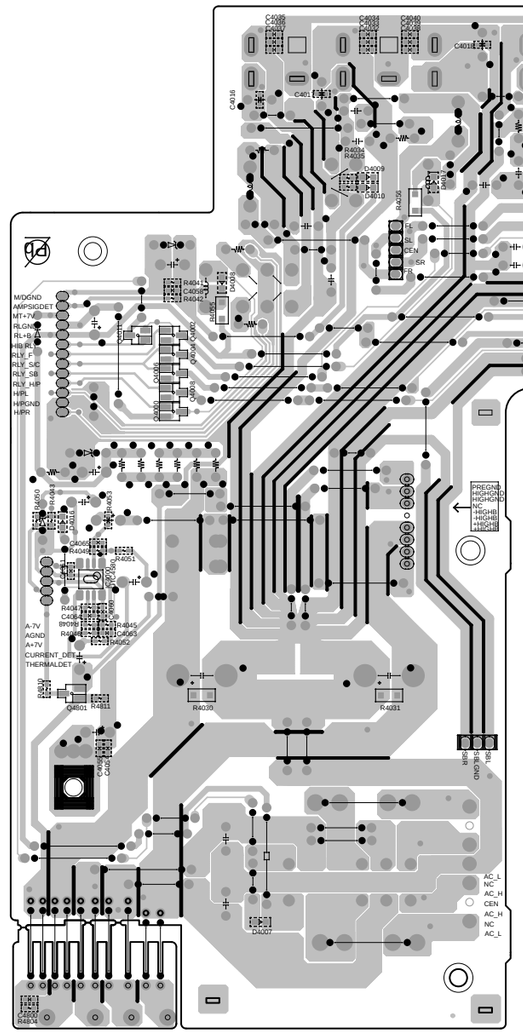
SIDE CNT (B SIDE)



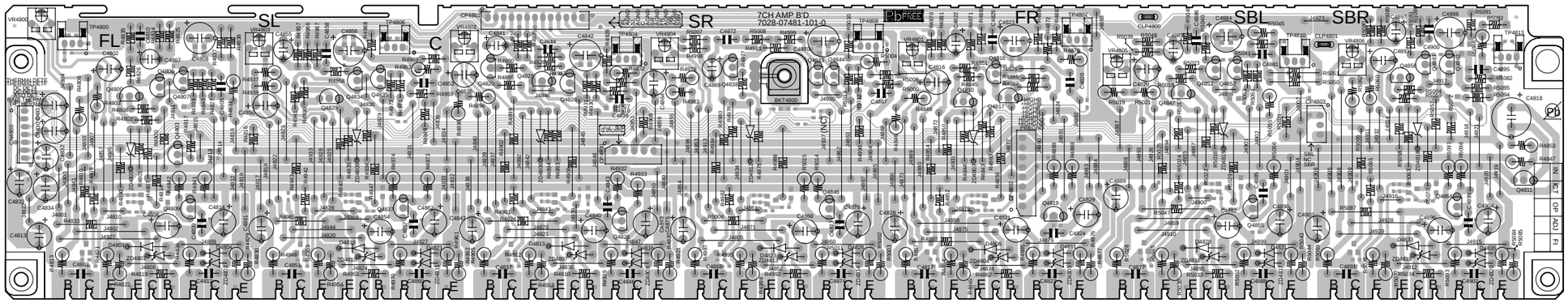
SPK (A SIDE)



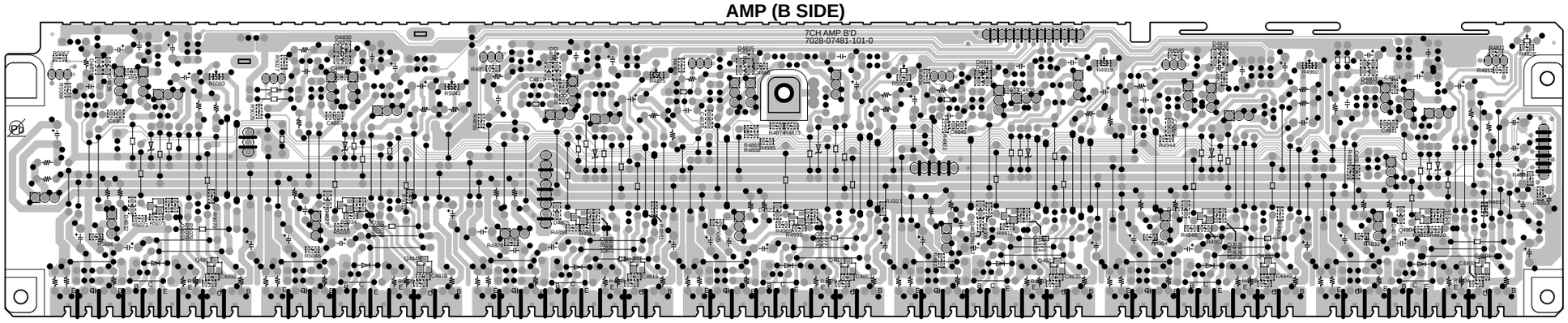
SPK (B SIDE)



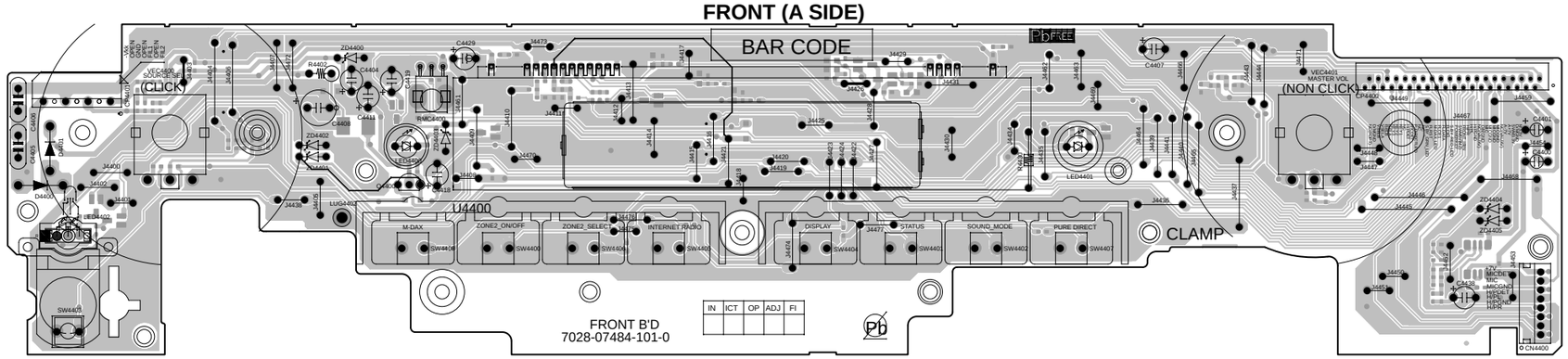
AMP (A SIDE)



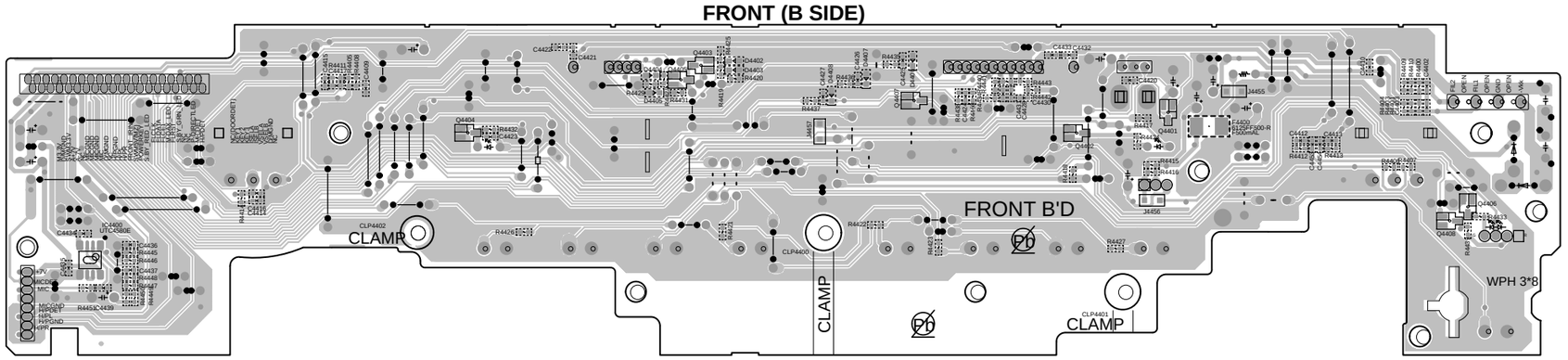
AMP (B SIDE)



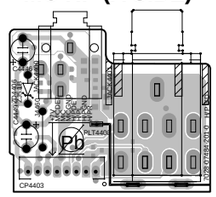
FRONT (A SIDE)



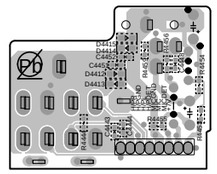
FRONT (B SIDE)



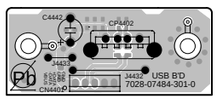
MC HP (A SIDE)



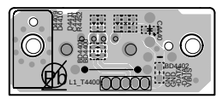
MC HP (B SIDE)



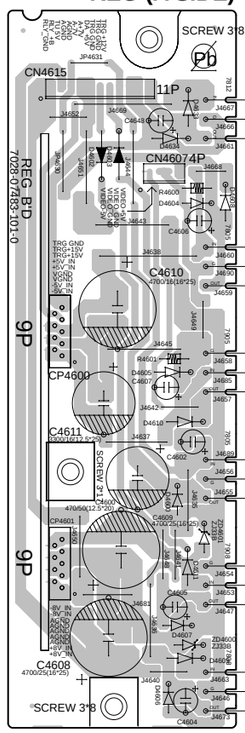
USB (A SIDE)



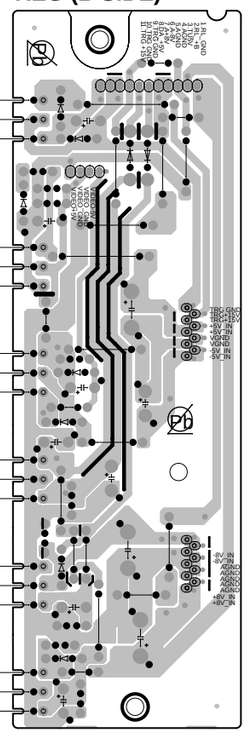
USB (B SIDE)



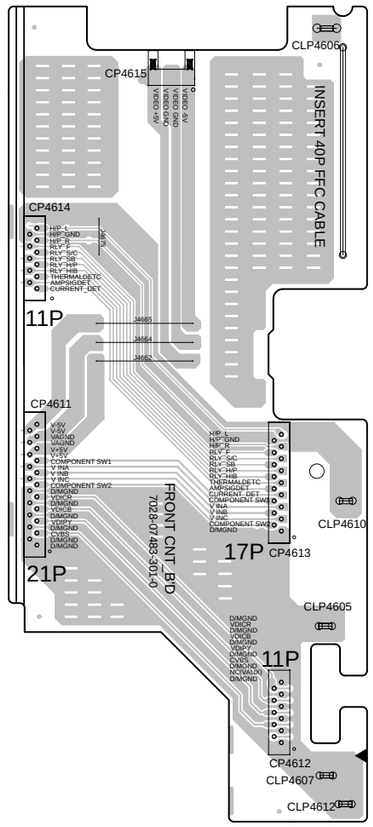
REG (A SIDE)



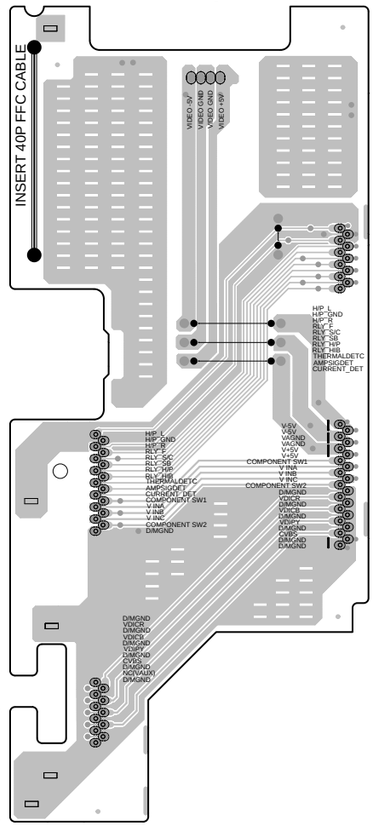
REG (B SIDE)



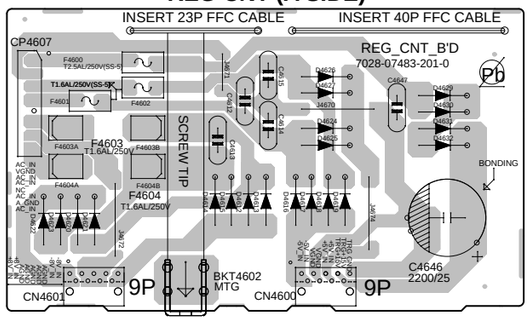
FRONT CNT (A SIDE)



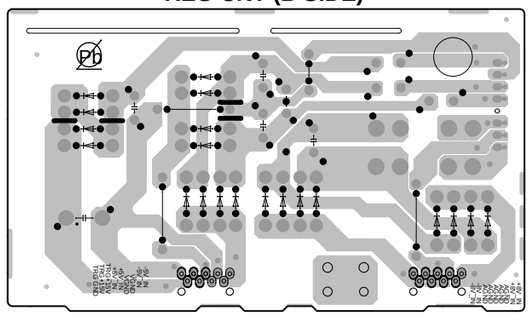
FRONT CNT (B SIDE)



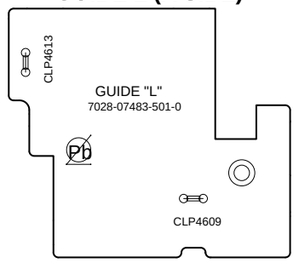
REG CNT (A SIDE)



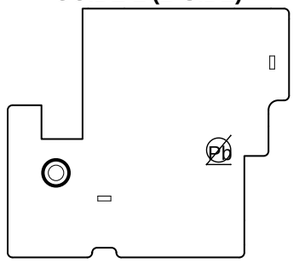
REG CNT (B SIDE)



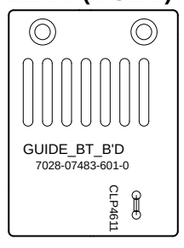
GUIDE L (A SIDE)



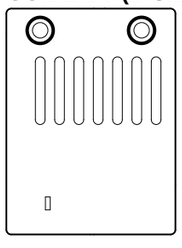
GUIDE L (B SIDE)



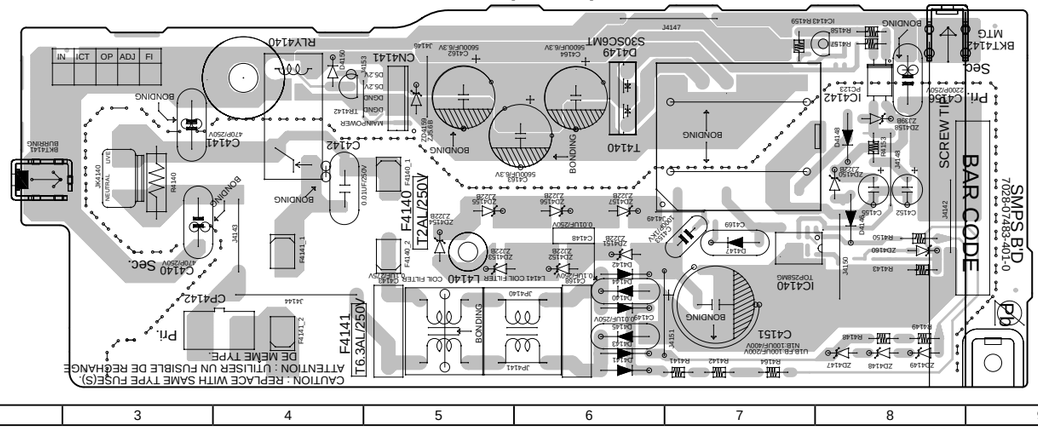
GUIDE BT (A SIDE)



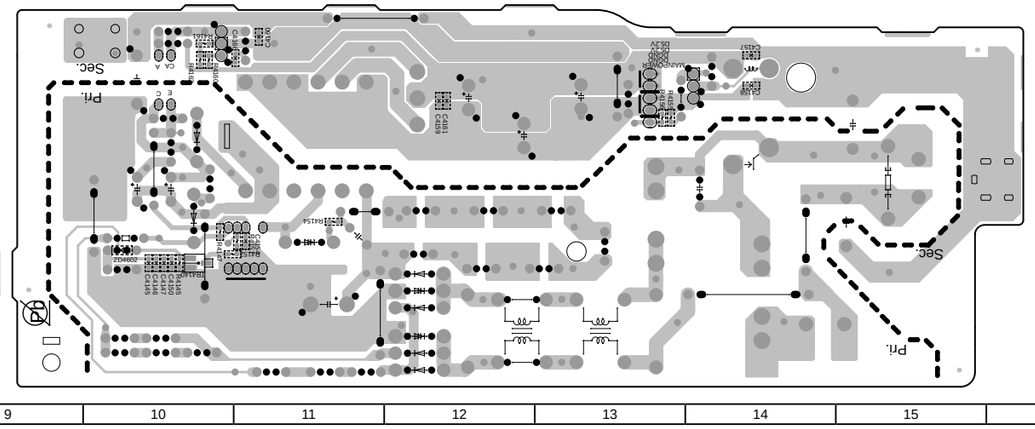
GUIDE BT (B SIDE)



SMPS (A SIDE)



SMPS (B SIDE)



HDMI SW1

N1000
TO N1038

FROM FRONT HDMI
CEC
HPDF
TXEN
DDCA_SDA
DDCA_SCL
HDMI5V
CEC5V
CEC3.3V
CEC3.3V
DGND
DGND
RX_C-
RX_C+
DGND
RX_0-
RX_0+
DGND
RX_1-
RX_1+
DGND
RX_2-
RX_2+
DGND

HDMI_IN1
HDMI_IN2
HDMI_IN3
HP_DET
+5V
GND
DDC_SDA
DDC_SCK
N.C
CE_REMOTE
TXC-
TXC_SHLD
TXC+
TXD-
TXD_SHLD
TXD+
TXD-
TXD_SHLD
TXD+
TXC-
TXC_SHLD
TXC+

U1000
MN8647781_ES3 or ES4

A0
TO 0A
A1
TO 1A
A2
TO 2A
A3
TO 3A
A4
TO 4A
A5
TO 5A

SCL5V
SDA5V
+3.3V
+1.1V
DGND

P0_C-
P0_C+
P0_D0-
P0_D0+
P0_D1-
P0_D1+
P0_D2-
P0_D2+
P0_DDCDA
P0_DDCCL
CEC_COM
P1_C-
P1_C+
P1_D0-
P1_D0+
P1_D1-
P1_D1+
P1_D2-
P1_D2+
P1_DDCDA
P1_DDCCL
RX_COM_5V

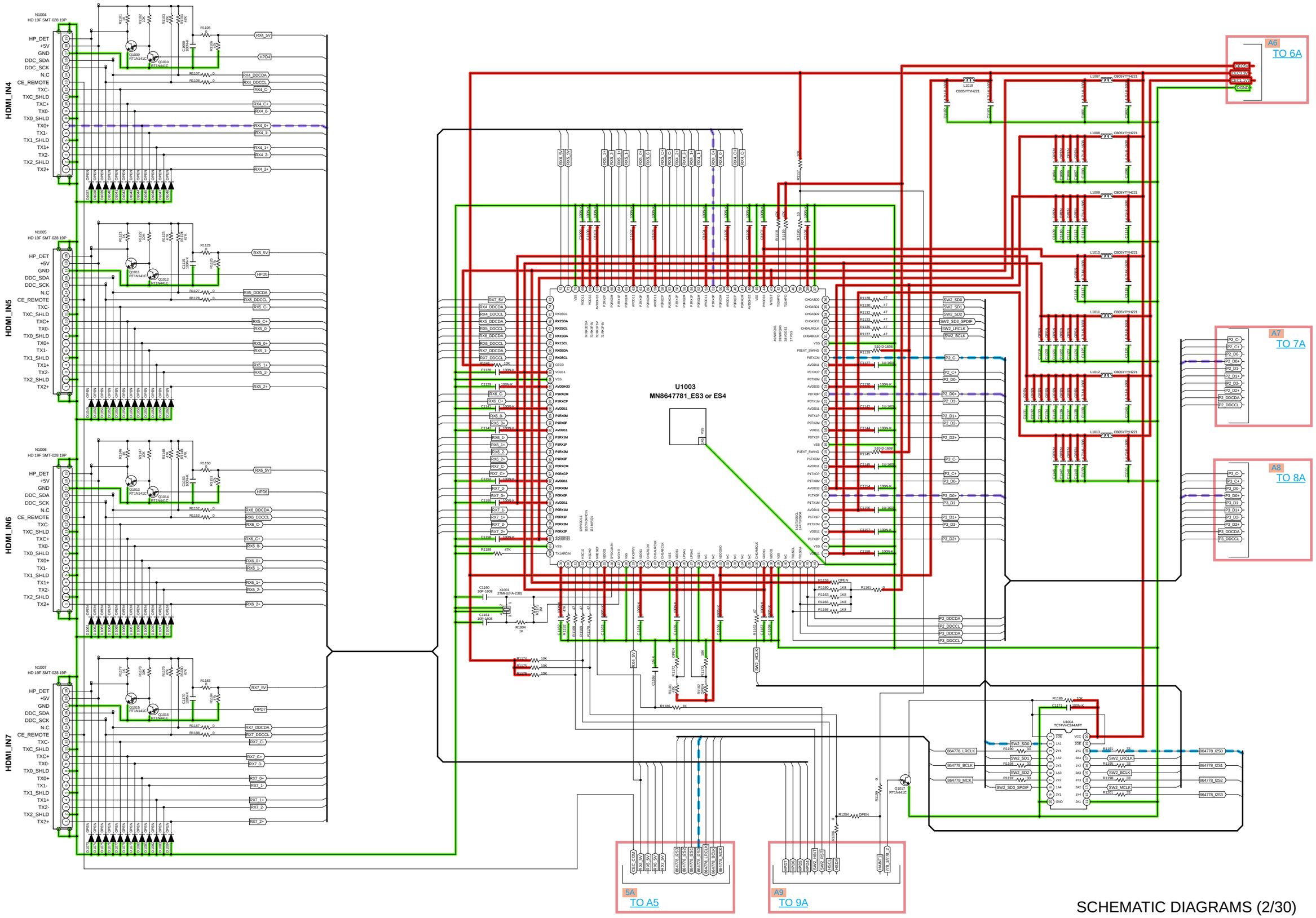
SW1_SD0
SW1_SD1
SW1_SD2
SW1_SD3_SPDIF
SW1_LRCLK
SW1_BCLK
SW1_MCLK

8647781_MCK
8647781_BCLK
8647781_LRCLK
8647781_I2S0
8647781_I2S1
8647781_I2S2
8647781_I2S3

SCHEMATIC DIAGRAMS (1/30)
01-HDMI SW1

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

HDMI SW2



SCHEMATIC DIAGRAMS (2/30)

02-HDMI SW2

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

NET PHY

OPTION
CX870 OPEN
CY920 USE

B0 TO 0B

B1 TO 1B

B2 TO 2B

B3 TO 3B

N1008 TO CN4401

N1011 TO N1028

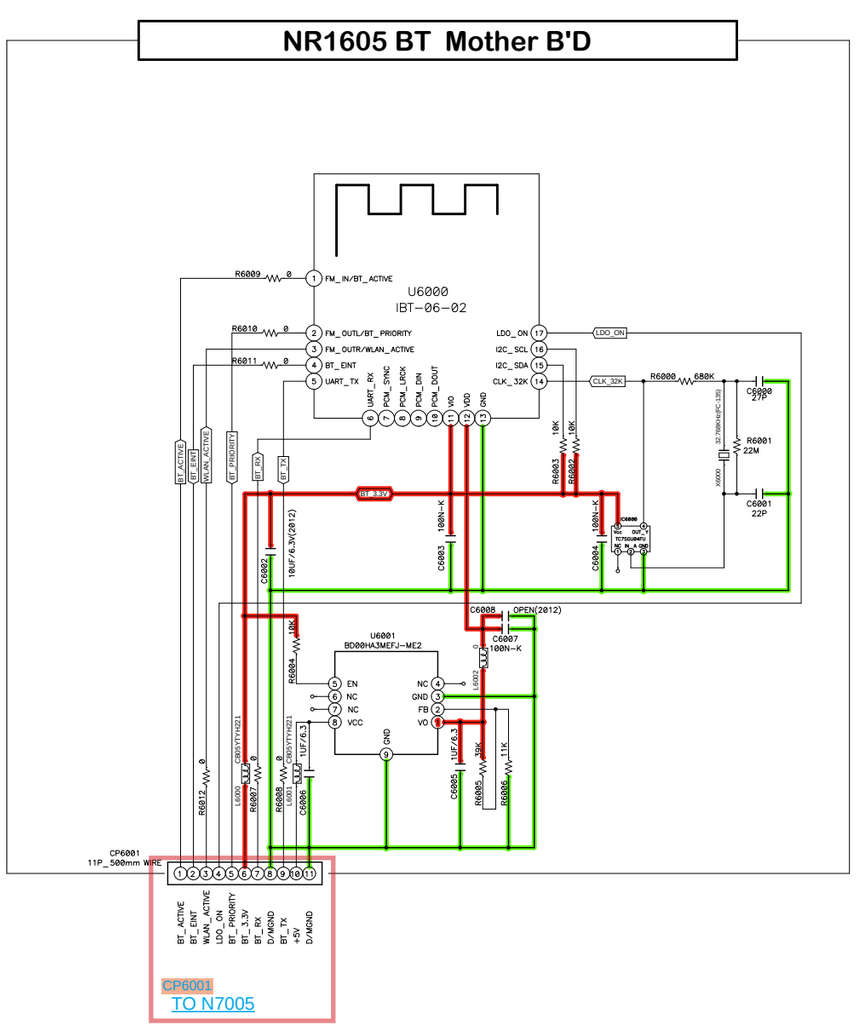
SCHEMATIC DIAGRAMS (3/30)

03-NET_PHY

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

BlueTooth Mother
REF: 6000~6100

NR1605 BT Mother B'D



CP6001
TO N7005

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

SCHEMATIC DIAGRAMS (4/30)
04-BlueTooth

CPU LEVEL CHG

B4 TO 4B

B5 TO 5B

B7 TO 7B

B6 TO 6B

OPEN

DGND
RXD_MI232O
TXD_MO232I
REMOTE3.3V

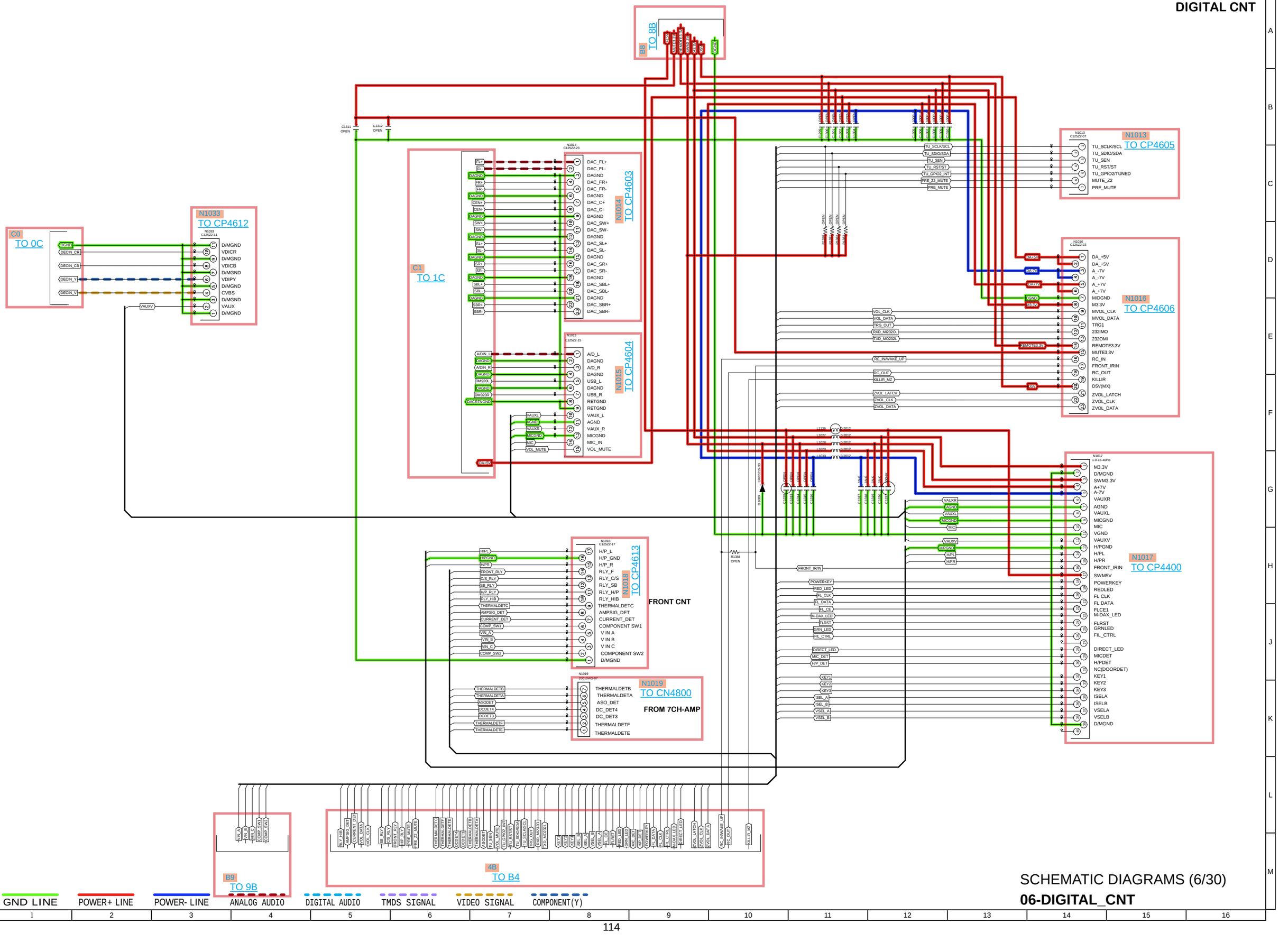
SCPURXD
SCPUTXD

SCHEMATIC DIAGRAMS (5/30)

05-CPU_LEVEL_CHG

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

DIGITAL CNT



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

SCHEMATIC DIAGRAMS (6/30)

06-DIGITAL_CNT

CPU

C4 TO 4C
C5 TO 5C
C6 TO 6C
6B TO B6
C3 TO 3C
C2 TO 2C
0B TO B0

¡Ø OPTION TABLE

MODEL	R1431	R1428
NR1605U	OPEN	0
NR1605F	10K	22K
NR1605N	0	OPEN

¡Ø OPTION TABLE

	NR1605U	NR1605N/F	
OPTION_A	USE	OPEN	Mz : FLASHER IN
OPTION_B	USE	OPEN	Mz : FLASHER IN

SR5009/NR1605 ONLY

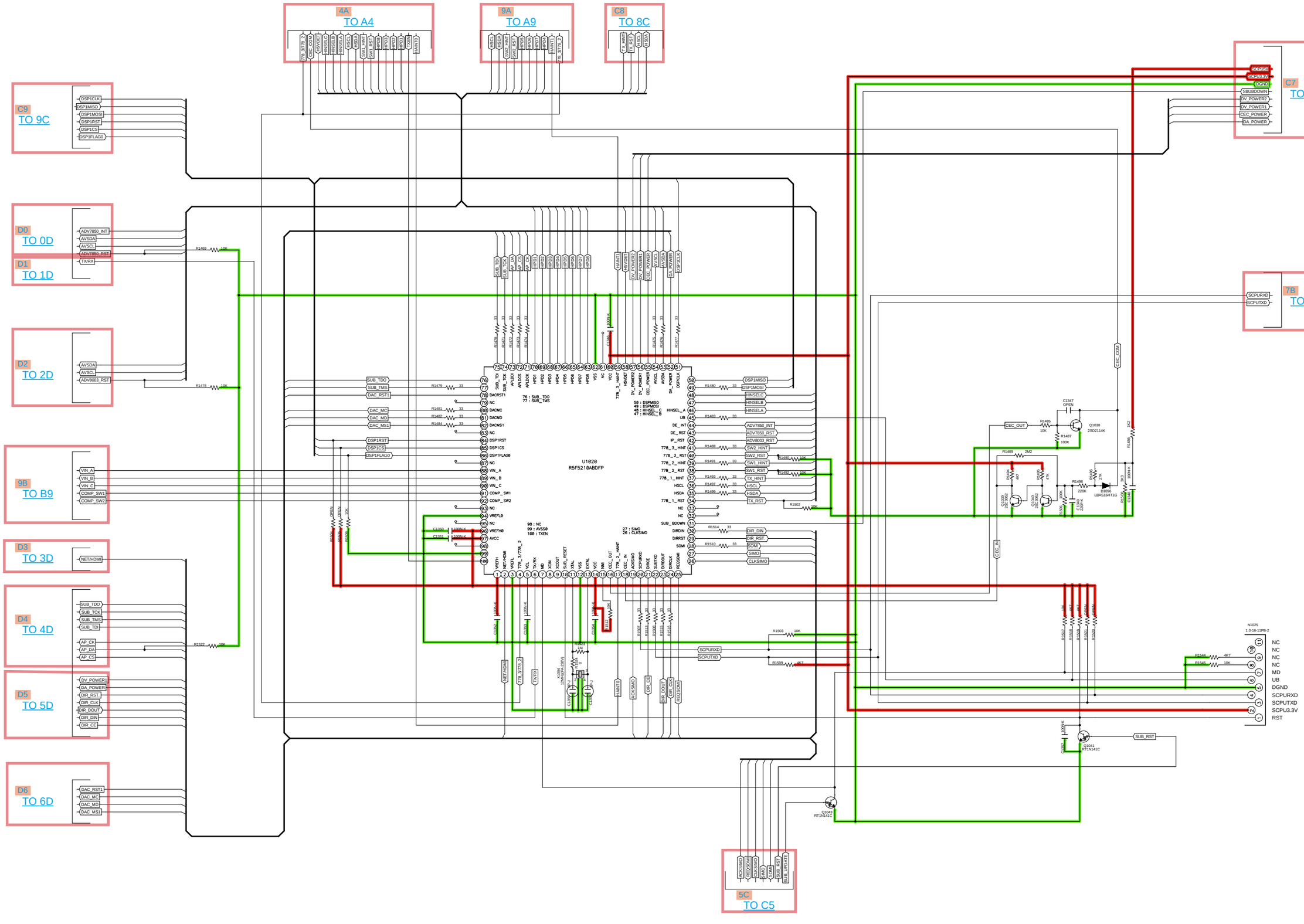
EMULATOR

SCHEMATIC DIAGRAMS (7/30)

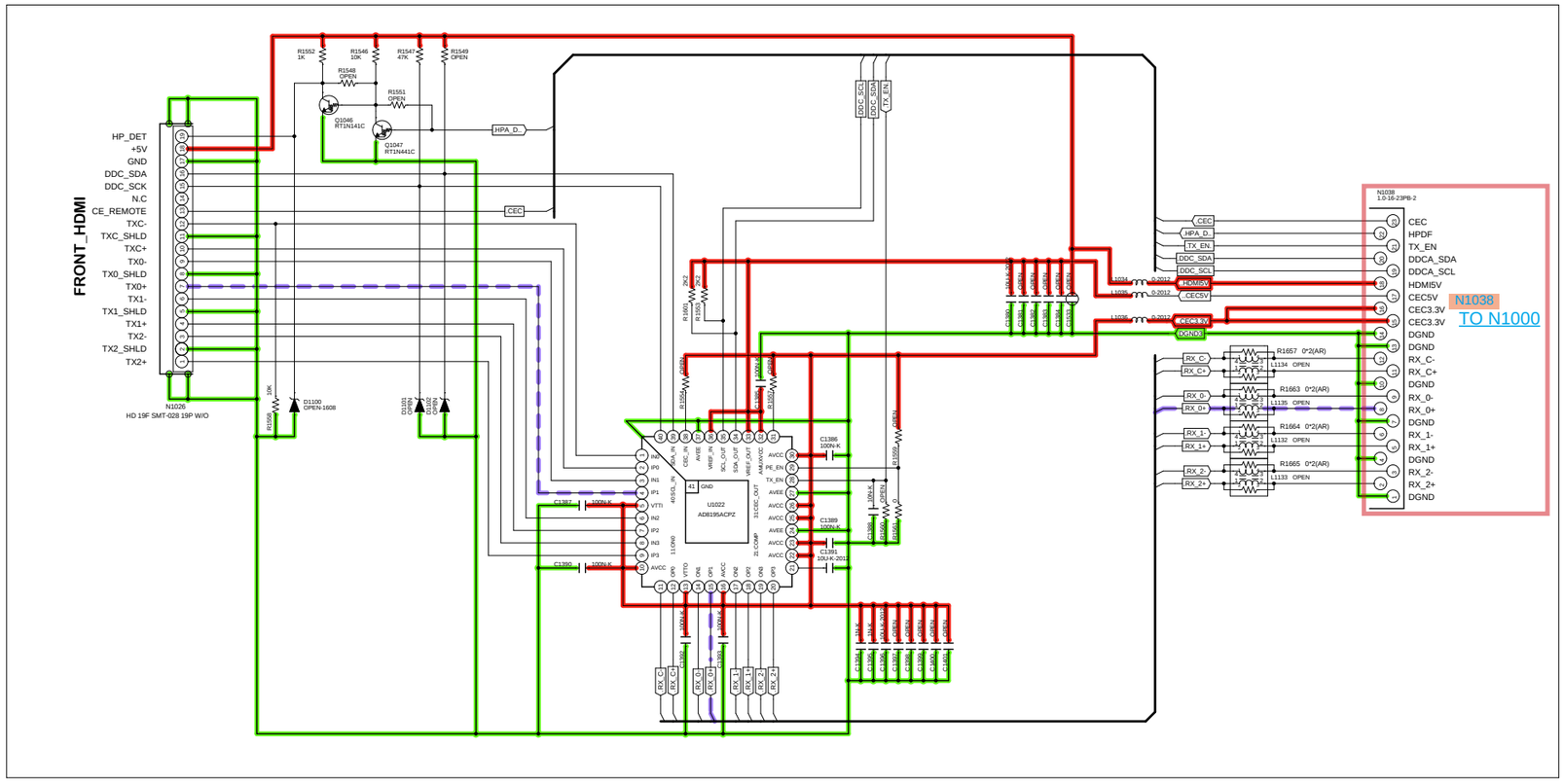
07-CPU

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

SUB CPU


4A
TO A4
9A
TO A9
C8
TO 8C
C9
TO 9C
D0
TO 0D
D1
TO 1D
D2
TO 2D
9B
TO B9
D3
TO 3D
D4
TO 4D
D5
TO 5D
D6
TO 6D
C7
TO 7C
7B
TO B7
5C
TO C5
U1020
R5F5210ABDFP
SCPURXD
SCPUTXD
SCPU3.3V
SUB_RST
SCHEMATIC DIAGRAMS (8/30)
08-Sub_CPU
GND LINE
POWER+ LINE
POWER- LINE
ANALOG AUDIO
DIGITAL AUDIO
TMDS SIGNAL
VIDEO SIGNAL
COMPONENT(Y)

FRONT HDMI



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

SCHEMATIC DIAGRAMS (9/30)

09-FRONT_HDMI

DSP

MP OPEN

OPTION TABLE

MODEL	R1576	R1583
SR5009	OPEN	4K7
NR1605	4K7	OPEN

U1024
ADSP2148?KSWZ3B

U1023
W986AG6JH-6

U1025
MX25L1606EM2I-12G

N1035
1.0-16-7PB-2

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

SCHEMATIC DIAGRAMS (10/30)

10-DSP

ADV8003

E4
TO 4E

E3
TO 3E

E2
TO 2E

D8
TO 8D

U1026
ADV8003(AD55/058Z-0)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A	A1 BKOPI_Y11/R7	A2 BKOPI_DE	A3 BKOPI_PCK	A4 TXI2S0/DSD1	A5 TXI2S1/DSD2	A6 TXFS/DSD5	A7 TX_ARC2OUT	A8 ADV8003_SPI_MI	A9 TXFX_SCK_SF	A10 TX_CS_SF	A11 ADV8003_RESET	A12 TX_XTALN	A13 PVDD_TX	A14	A15	A16 CVDD1	A17 TX_C-	A18 TX_0-	A19 TX_1-	A20 TX_2-	A21 CVDD1	A22	A23
B	B1 BKOPI_Y9/R5	B2 BKOPI_Y10/R6	B3 BKOPI_VSYNC	B4 TXSPDIF/DSD0	B5 TXI2S2/DSD3	B6 NC_01	B7 TX_ARC1OUT	B8 ADV8003_SPI_M	B9 TXFX_MOSI_SF	B10 TX_MISO_SF	B11 TX_ALSB	B12 TX_XTALP	B13 PVDD_TX	B14	B15	B16 DGND	B17 TX_C+	B18 TX_0+	B19 TX_1+	B20 TX_2+	B21 DGND	B22	B23
C	C1 BKOPI_Y7/R3	C2 BKOPI_Y8/R4	C3 DGND	C4 TXI2S3/DSD4	C5 TX64FS/DSDSCK	C6 TX64FS/DSDSCK	C7 AVSCL	C8 ADV8003_SPI_CL	C9 DGND	C10 ADV8003_INT0	C11 TX_PDN	C12 DGND	C13 DGND	C14	C15	C16 TX_HPD.	C17 AVDD1_TX	C18 DGND	C19 DGND	C20 AVDD1_TX	C21 AVDD1_TX	C22	C23
D	D1 BKOPI_Y4/R0	D2 BKOPI_Y5/R1	D3 BKOPI_Y6/R2	D4 DGND	D5 DVDDIO_TX	D6 TX256FS/DSDMCK	D7 AVSDA	D8 ADV8003_SPI_CS	D9 DGND	D10 ADV8003_INT1	D11 ADV8003_INT2	D12 DVDDIO_TX	D13 TX_TEST1	D14	D15	D16 DV5V	D17	D18	D19 TX_RTERM	D20 AVDD2_TX	D21 AVDD2_TX	D22	D23
E	E1 BKOPI_Y1/G5	E2 BKOPI_Y2/G6	E3 BKOPI_Y3/G7	E4 DVDDIO_TX	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E15	E16	E17	E18	E19	E20	E21 DGND	E22	E23
F	F1 BKOPI_C9/G1	F2 BKOPI_C10/G2	F3 BKOPI_C11/G3	F4 BKOPI_Y0/G4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21 PVDD3_TX	F22 DGND	F23
G	G1 BKOPI_C5/B5	G2 BKOPI_C6/B6	G3 BKOPI_C7/B7	G4 BKOPI_C8/G0	G5	G6	G7 DGND	G8 DGND	G9 DGND	G10 DVDD_TX	G11 DGND	G12 DGND	G13 DVDD_TX	G14 DGND	G15 DGND	G16 DGND	G17 DGND	G18	G19	G20 TX_ELPF1	G21 TX_ELPF2	G22 DGND	G23 AVDD3_1_TX
H	H1 BKOPI_C1/B1	H2 BKOPI_C2/B2	H3 BKOPI_C3/B3	H4 BKOPI_C4/B4	H5	H6	H7 DGND	H8 DGND	H9 DGND	H10 DGND	H11 DGND	H12 DGND	H13 DGND	H14 DGND	H15 DGND	H16 DGND	H17 DGND	H18	H19	H20 DGND	H21 DGND	H22 TX1_2+	H23 TX1_2-
J	J1 POBKI_DE.	J2 POBKI_HSYNC	J3 BKOPI_HSYNC	J4 BKOPI_C0/B0	J5	J6	J7 DVDD_TX	J8 DGND	J9 DGND	J10 DGND	J11 DGND	J12 DGND	J13 DGND	J14 DGND	J15 DGND	J16 DGND	J17 DVDD_TX	J18	J19	J20 ADV8003_DDCSDA	J21 DGND	J22 TX1_1+	J23 TX1_1-
K	K1 POBKI_VSYNC	K2 POBKI_PCK.	K3 DVDDIO_TX	K4 DVDDIO_TX	K5	K6	K7 DGND	K8 DGND	K9 DGND	K10 DGND	K11 DGND	K12 DGND	K13 DGND	K14 DGND	K15 DGND	K16 DGND	K17 DGND	K18	K19	K20 ADV8003_DDCSCL	K21 DGND	K22 TX1_0+	K23 TX1_0-
L	L1 DGND	L2 DGND	L3 DGND	L4 DGND	L5	L6	L7 DVDD_TX	L8 DGND	L9 DGND	L10 DGND	L11 DGND	L12 DGND	L13 DGND	L14 DGND	L15 DGND	L16 DGND	L17 DGND	L18	L19	L20 TX1_HPD	L21 DGND	L22 TX1_C+	L23 TX1_C-
M	M1 DGND	M2 DGND	M3 DGND	M4 DGND	M5	M6	M7 DGND	M8 DGND	M9 DGND	M10 DGND	M11 DGND	M12 DGND	M13 DGND	M14 DGND	M15 DGND	M16 DGND	M17 DGND	M18	M19	M20 TX_R_TX1	M21 PVDD5_TX	M22 TX1_HEAC+	M23 TX1_HEAC-
N	N1 DGND	N2 DGND	N3 DGND	N4 DGND	N5	N6	N7 DGND	N8 DGND	N9 DGND	N10 DGND	N11 DGND	N12 DGND	N13 DGND	N14 DGND	N15 DGND	N16 DGND	N17 DGND	N18	N19	N20	N21 PVDD5_TX	N22 AVDD3_2_TX	N23
P	P1 POBKI_Y8/R4	P2 POBKI_Y9/R5	P3 POBKI_Y10/R6	P4 POBKI_Y11/R7	P5	P6	P7 DVDD_TX	P8 DGND	P9 DGND	P10 DGND	P11 DGND	P12 DGND	P13 DGND	P14 DGND	P15 DGND	P16 DGND	P17 DVDD_TX	P18	P19	P20	P21 DGND	P22	P23
R	R1 POBKI_Y4/R0	R2 POBKI_Y5/R1	R3 POBKI_Y6/R2	R4 POBKI_Y7/R3	R5	R6	R7 DGND	R8 DGND	R9 DGND	R10 DGND	R11 DGND	R12 DGND	R13 DGND	R14 DGND	R15 DGND	R16 DGND	R17 DGND	R18	R19	R20	R21 DGND	R22	R23
T	T1 POBKI_Y2/G6	T2 POBKI_Y3/G7	T3 DGND	T4 DGND	T5	T6	T7 DGND	T8 DGND	T9 DGND	T10 DGND	T11 DGND	T12 DGND	T13 DGND	T14 DGND	T15 DGND	T16 DGND	T17 DGND	T18	T19	T20	T21 DGND	T22	T23
U	U1 POBKI_C10/G2	U2 POBKI_C11/G3	U3 POBKI_Y0/G4	U4 POBKI_Y1/G5	U5	U6	U7 DGND	U8 DGND	U9 DVDD_TX	U10 DGND	U11 DGND	U12 DVDD_TX	U13 DGND	U14 DGND	U15 DVDD_TX	U16 DGND	U17 DGND	U18	U19	U20	U21 DGND	U22	U23
V	V1 POBKI_C6/B6	V2 POBKI_C7/B7	V3 POBKI_C8/G0	V4 POBKI_C9/G1	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20 DGND	V21 PVDD6_TX	V22	V23
W	W1 POBKI_C2/B2	W2 POBKI_C3/B3	W3 POBKI_C4/B4	W4 POBKI_C5/B5	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17	W18	W19	W20	W21 PVDD6_TX	W22 AVDD3_3_TX	W23
Y	Y1 POBKI_C0/B0	Y2 POBKI_C1/B1	Y3 TX_DDRDQS2	Y4 DGND	Y5 TX_DDRDQ23	Y6 DDR_1.8V	Y7 TX_DDRDQS3	Y8 DGND	Y9 TX_DDRA11	Y10 DDR_1.8V	Y11 TX_DDRA4	Y12 DGND	Y13 TX_DDRCASB	Y14 DDR_1.8V	Y15 TX_DDRCKB	Y16 DGND	Y17 TX_DDRDQ9	Y18 DDR_1.8V	Y19 TX_DDRDQ14	Y20 DGND	Y21 TX_DDRDQ6	Y22 PVDDR_TX	Y23 DGND
AA	AA1 TX_DDRDQ18	AA2 DGND	AA3 DGND	AA4 TX_DDRQSB2	AA5 TX_DDRDQ28	AA6 DDR_1.8V	AA7 TX_DDRQSB3	AA8 DGND	AA9 TX_DDRA8	AA10 DDR_1.8V	AA11 TX_DDRA2	AA12 DGND	AA13 TX_DDRCSB	AA14 DDR_1.8V	AA15 TX_DDRCK	AA16 DGND	AA17 TX_DDRDQ11	AA18 DDR_1.8V	AA19 TX_DDRDM1	AA20 TX_DDRDM0	AA21 DGND	AA22 DGND	AA23 TX_DDRDQ3
AB	AB1 TX_DDRDQ21	AB2 TX_DDRDQ19	AB3 TX_DDRDQ17	AB4 TX_DDRDM2	AB5 TX_DDRDQ30	AB6 TX_DDRDM3	AB7 TX_DDRDQ31	AB8 TX_DDRDQ29	AB9 TX_DDRA12	AB10 TX_DDRA6	AB11 TX_DDRA3	AB12 TX_DDRA0	AB13 TX_DDRBA0	AB14 TX_DDRRASB	AB15 TX_DDRCKE	AB16 TX_DDRDQ12	AB17 TX_DDRDQS1	AB18 TX_DDRDQ8	AB19 TX_DDRDQ13	AB20 TX_DDRDQ0	AB21 TX_DDRDQ5	AB22 TX_DDRDQS0	AB23 TX_DDRDQ4
AC	AC1 TX_DDRDQ16	AC2 TX_DDRDQ20	AC3 TX_DDRDQ22	AC4 TX_DDRDQ25	AC5 TX_DDRDQ26	AC6 TX_DDRDQ27	AC7 TX_DDRDQ24	AC8 TX_DDRA9	AC9 TX_DDRA5	AC10 TX_DDRA7	AC11 TX_DDRA1	AC12 TX_DDRA10	AC13 TX_DDRBA1	AC14 TX_DDRBA2	AC15 TX_DDRWEB	AC16 TX_DDRVREF	AC17 TX_DDRDQ10	AC18 TX_DDRDQSB1	AC19 TX_DDRDQ15	AC20 TX_DDRDQ7	AC21 TX_DDRDQ2	AC22 TX_DDRQSB0	AC23 TX_DDRDQ1

E1
TO 1E

E0
TO 0E

D9
TO 9D

3C
TO C3

2D
TO D2

N1028
TO N1011

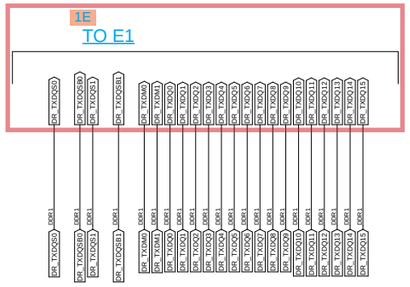
SCK
DGND
MOSI
DV3.3V
CS
MISO
DGND

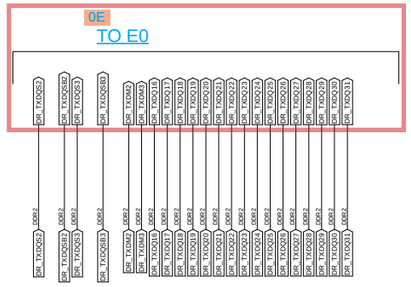
SCHEMATIC DIAGRAMS (11/30)

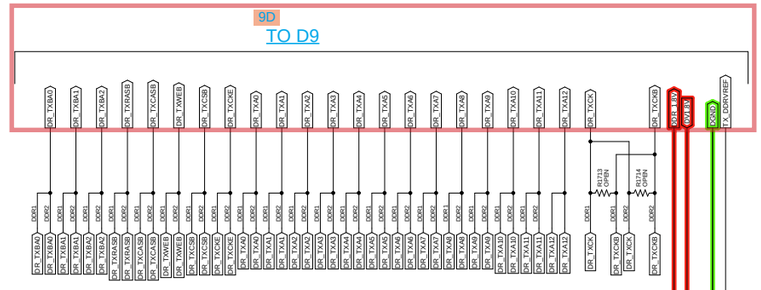
11-ADV8003

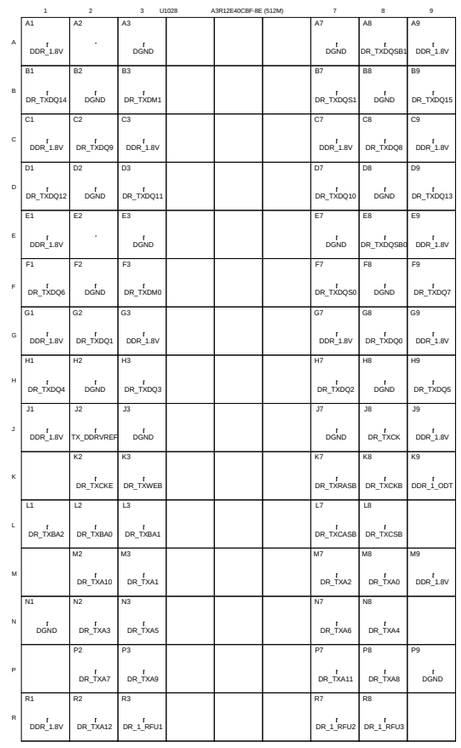
GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | VIDEO SIGNAL | COMPONENT(Y)

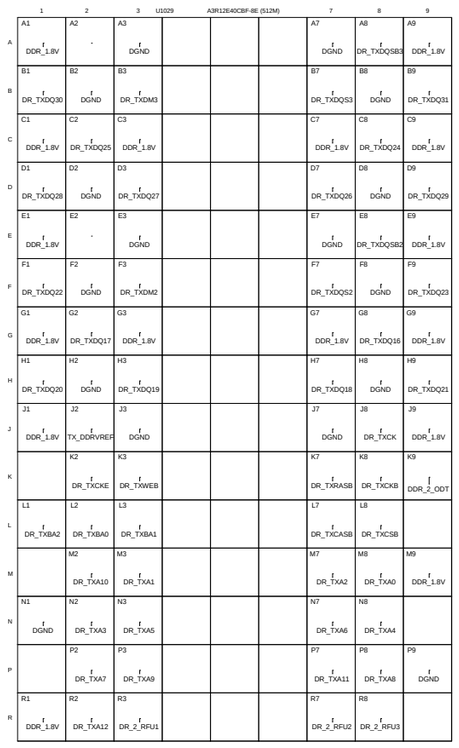
ADV8003 DDR

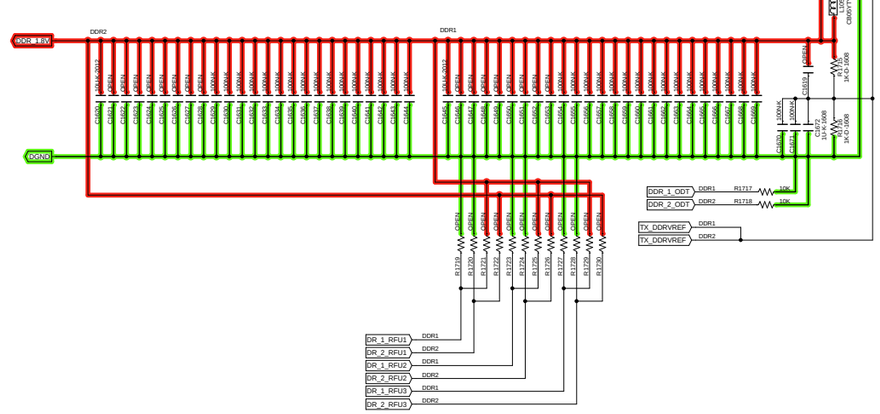












GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | VIDEO SIGNAL | COMPONENT(Y)

SCHEMATIC DIAGRAMS (12/30)

12-ADV8003_DDR

D.SUPPLY

TO SMPS B'D

SCHEMATIC DIAGRAMS (13/30)

13-D.SUPPLY

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

MP : OPEN

CY920 : NET2.5V R1781 : 110K-F
CX870 : NET1.9V R1781 : 160K-F

⌀ OPTION TABLE		
	SR5009U1B/N1B/K	NR1605U/N/F
C1680	OPEN	470/6.3(MVG)
C1675	470/6.3(RVO)	470/6.3(MVG)

HDMI TX

7E
TO E7

1A
TO A1

8A
TO A8

8D
TO D8

E9
TO 9E

F0
TO 0F

8C
TO C8

U1039
MN8647781_ES3 or ES4

N1030
OPEN
HDMI OUT 2
TX2+
TX2 SHIELD
TX2-
TX1+
TX1 SHIELD
TX1-
TX0+
TX0 SHIELD
TX0-
TXC+
TXC SHIELD
TXC-
NC
NC
DDC_SCK
DDC_SDA
GND
+5V
HP_DET

N1031
HD 19F SMT-028 19P
HDMI OUT 1
TX2+
TX2 SHIELD
TX2-
TX1+
TX1 SHIELD
TX1-
TX0+
TX0 SHIELD
TX0-
TXC+
TXC SHIELD
TXC-
CE_REMOTE
HEAC+
DDC_SCK
DDC_SDA
GND
+5V
HP_DET

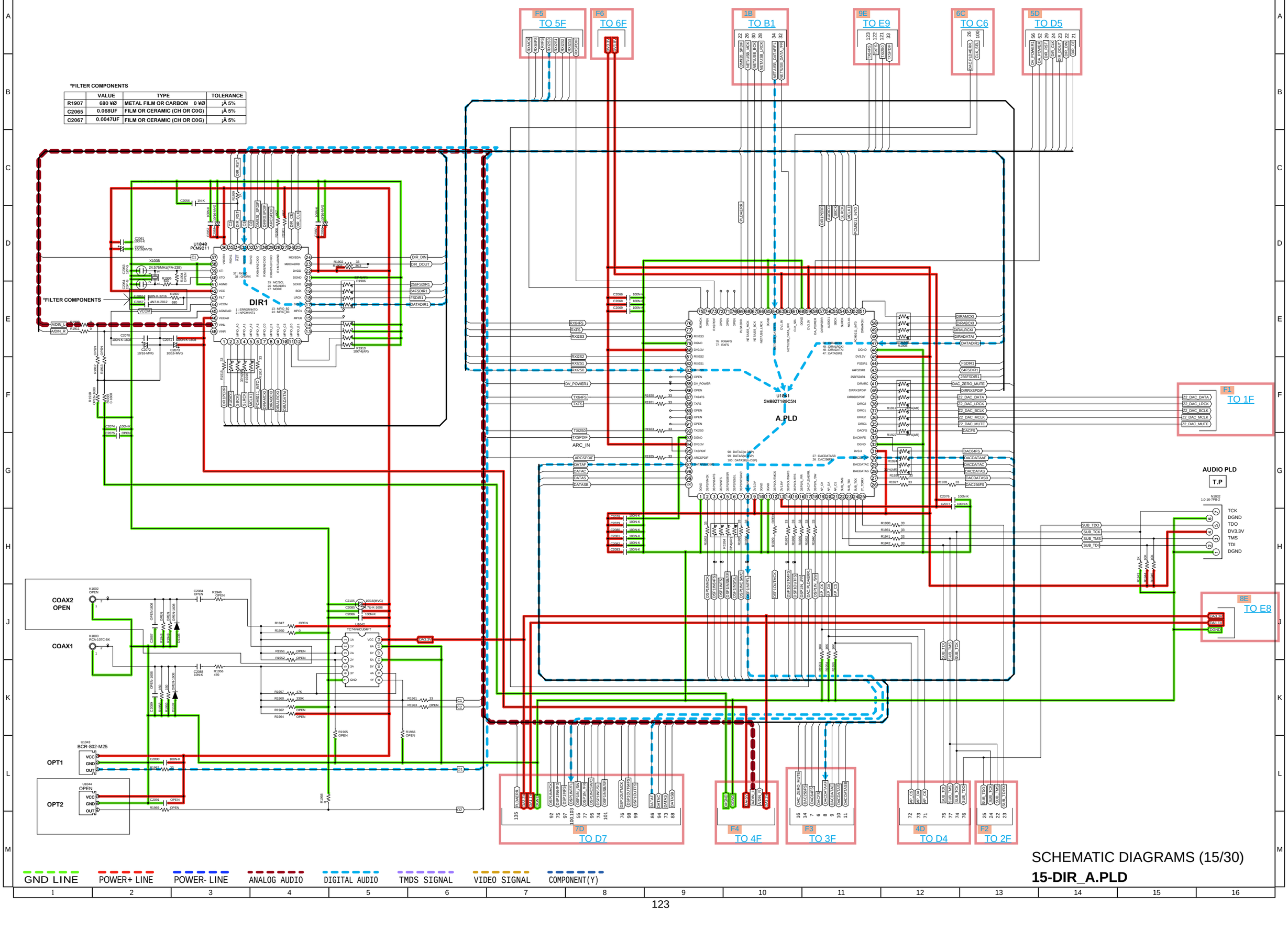
SCHEMATIC DIAGRAMS (14/30)
14-HDMI_TX

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

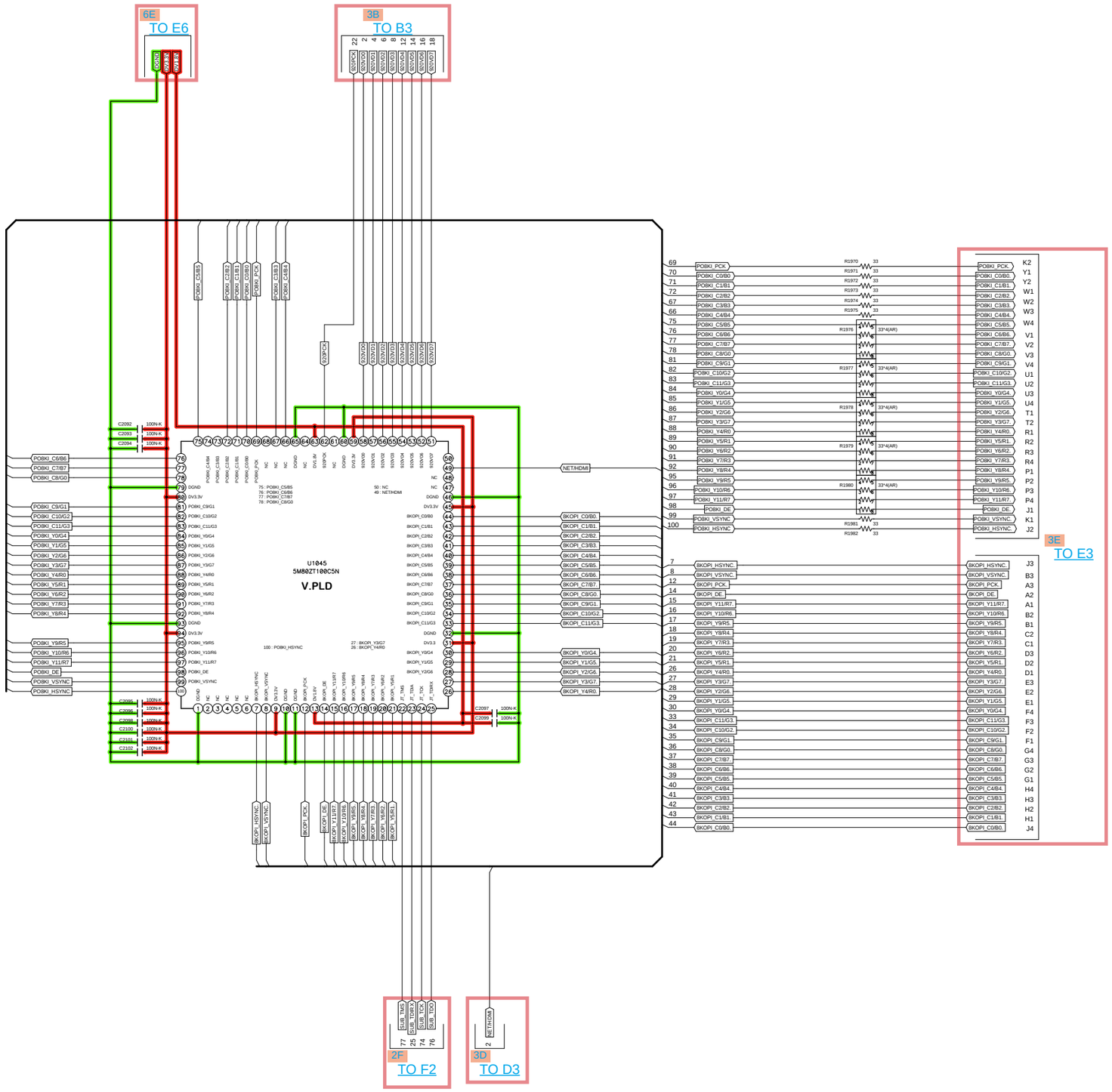
DIR/A.PLD

*FILTER COMPONENTS

	VALUE	TYPE	TOLERANCE
R1907	680 ¥Ø	METAL FILM OR CARBON 0 ¥Ø	¡Â 5%
C2065	0.068UF	FILM OR CERAMIC (CH OR C0G)	¡Â 5%
C2067	0.0047UF	FILM OR CERAMIC (CH OR C0G)	¡Â 5%



V.PLD

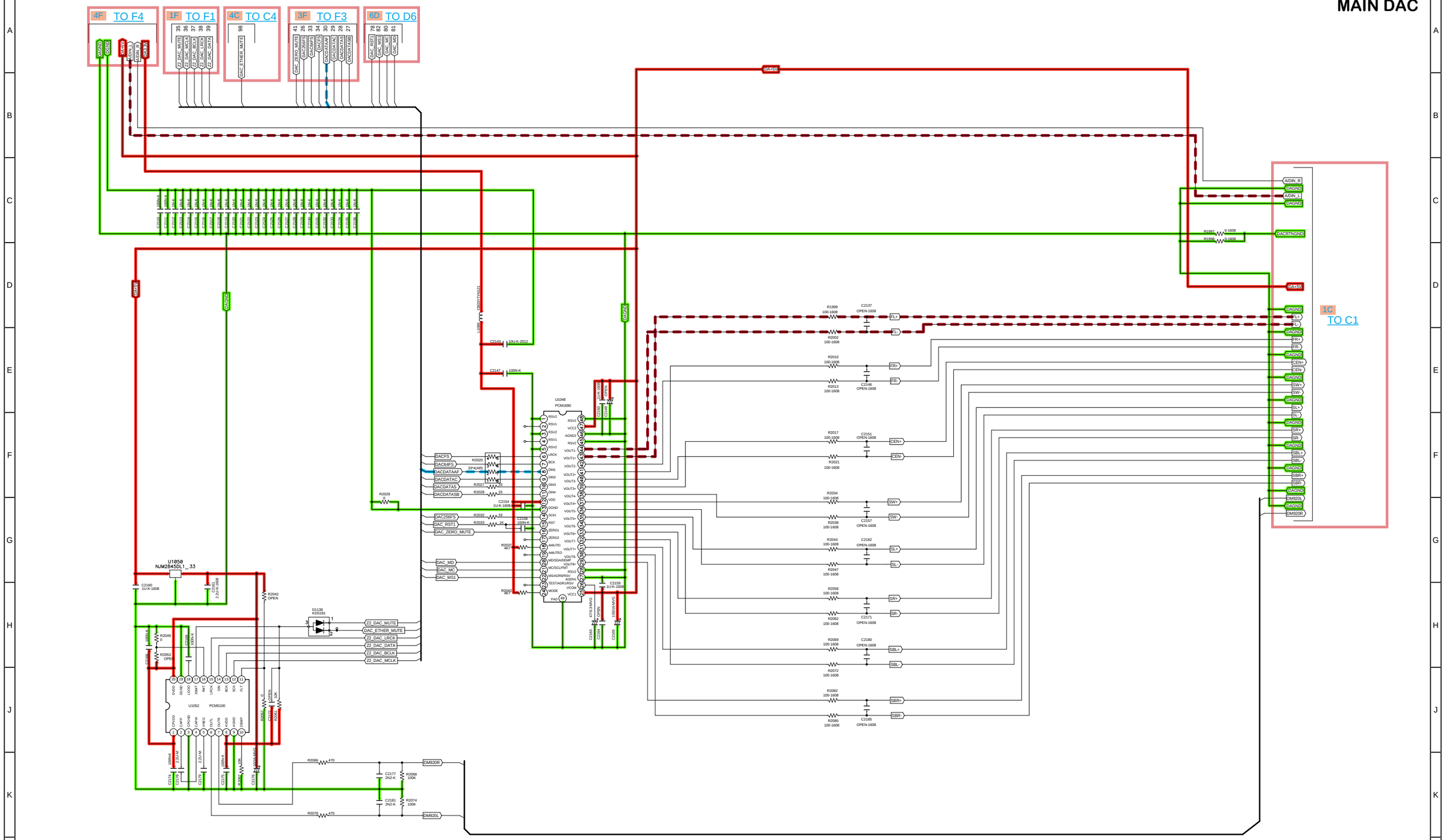


GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | VIDEO SIGNAL | COMPONENT(Y)

SCHEMATIC DIAGRAMS (16/30)

16-V.PLD

MAIN DAC



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

SCHEMATIC DIAGRAMS (17/30)

17-MAIN_DAC

ADV7850

5E TO E5

0C TO C0

3A TO A3

7A TO A7

0D TO D0

6F TO F6

2A TO A2

5F TO E5

1D TO D1

0F TO F0

2E TO E2

SCHEMATIC DIAGRAMS (18/30)

18-ADV7850

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

CX870 JUNCTION
Ref.7000 -

* MODEL/AREA OPTION

MODEL	AVR4/AVR3	SR5009		NR1605	
AREA	ALL MODEL	U1B / N1B / K1B	N1SG	U1B / N1B / FB	N1SG
R7053	0*2	0*2	-	0*2	-
L7002	-	-	DLW21SN181SQ2L	-	DLW21SN181SQ2L

TO Bluetooth

SCHEMATIC DIAGRAMS (19/30) ⚠2

19-CX870JUNCTION

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

AV 1/3
REF : 5200-5399

CP5200 TO CN4604
CP5201 TO CN4602
CP5202 TO CN4606
CN5200 TO CP4614
CN5202 TO CP4002
CN5201 TO CP4000
CN4801 TO CP4801
F8 TO 8F
F1 TO 7F

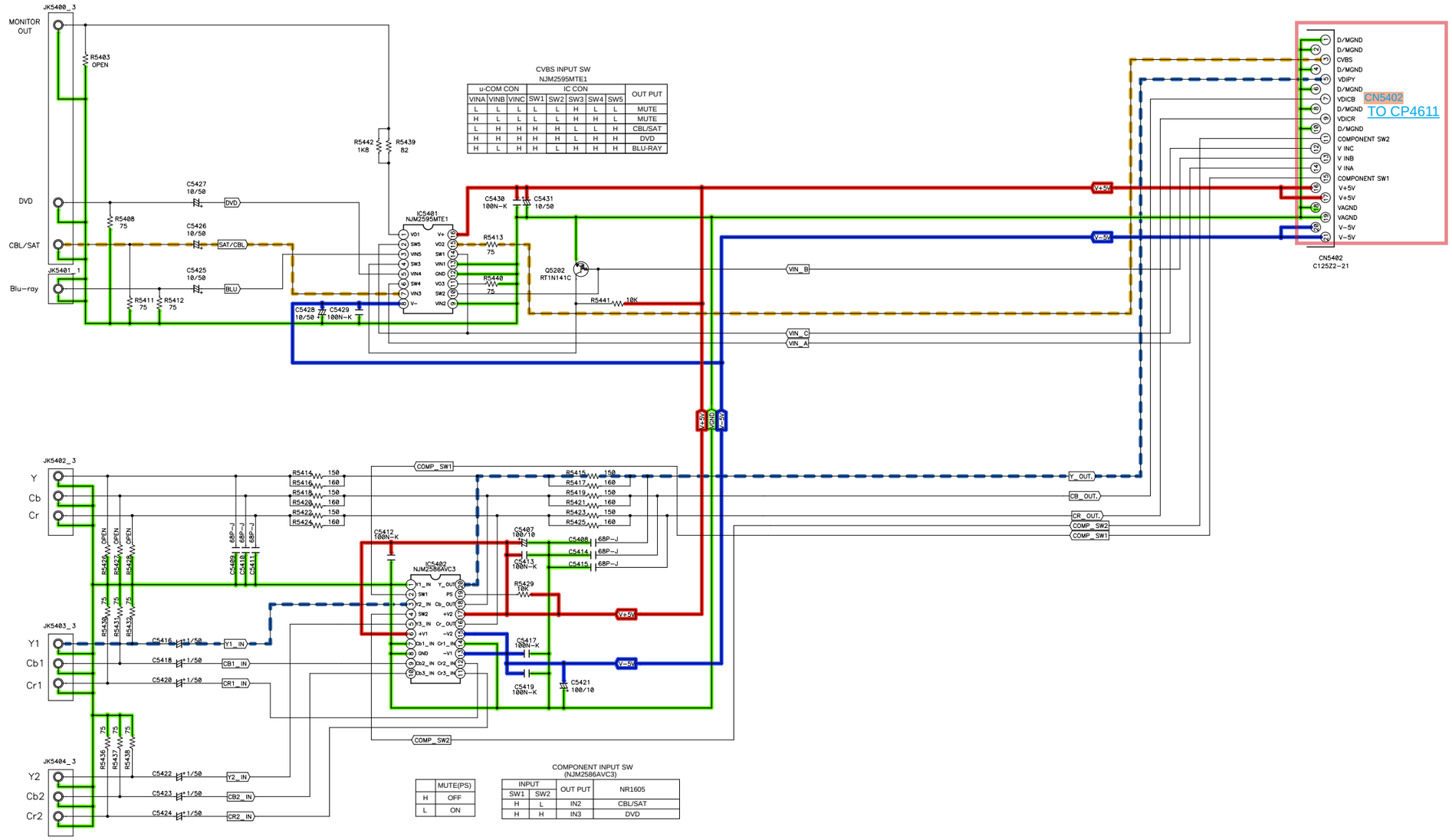
AUDIO IN
CBL/SAT
DVD
CD
RC-5

IC5200 R2A15218FP
IC5201 UTC4580E
IC5202 BD3812F

SCHEMATIC DIAGRAMS (20/30)
20-AV (1/3)

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

AV 2/3
REF : 5400–5499



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

SCHEMATIC DIAGRAMS (21/30)

21-AV (2/3)

TUNER PACK

PACK5500
KST-MW004MV1-S63SV-1

TUNERL
TUNERR
TU_5V
SCLK
SDIO
SEN
RST
GPIO2

TU_SCLK/SCL
TU_SDIO/SDA
TU_SEN
TU_RST/ST
TU_GPIO2/TUNED

BD5500 CB03YTYN121

R5508 OPEN
R5514 OPEN
R5512 1K
C5513 100N-K

R5502 1K
R5501 0
C5500 OPEN
R5504 82K
R5506 82K
R5511 1K
C5507 OPEN
R5516 0
R5520 OPEN

*TUNER OPTION

	PACK5500
U1B	KST-MW004MV1-S63SV-1
N1B/N1SG	KST-MW104MV1-S63G
FB	KST-MW004MV1-S63 -1

8F
TO F8

TUNERL
AGND
TUNERR
TU_5V
TU_SCLK/SCL
TU_SDIO/SDA
TU_SEN
TU_RST/ST
TU_GPIO2/TUNED
RET_GND

CP5203
TO CN4605

DAC_FL+
DAC_FL-
AGND
DAC_FR+
DAC_FR-
AGND
DAC_CEN+
DAC_CEN-
AGND
DAC_SW+
DAC_SW-
AGND
DAC_SL+
DAC_SL-
AGND
DAC_SR+
DAC_SR-
AGND
DAC_SBL+
DAC_SBL-
AGND
DAC_SBR+
DAC_SBR-

C12521-23
CP5203

FL+ / FL- — [FL] — U5500:A NJM8080
FR+ / FR- — [FR] — U5500:B NJM8080
CEN+ / CEN- — [CEN] — U5501:A NJM8080
SW+ / SW- — [SW] — U5501:B NJM8080
SL+ / SL- — [SL] — U5502:A NJM8080
SR+ / SR- — [SR] — U5502:B NJM8080
SBL+ / SBL- — [SBL] — U5503:A NJM8080
SBR+ / SBR- — [SBR] — U5503:B NJM8080

A+7V
A-7V
AGND

7F
TO F7

DAFL
DAFR
DAC
DASW
DASL
DASR
DASBL
DASBR

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

SCHEMATIC DIAGRAMS (22/30)
22-AV (3/3)

NR1605 AMP B'D 1/2

7CH_AMP 1/2
REF : 4800-5199

FL

FR

C

CP4801
TO CN4801

CP4800
TO CN4000

CP4802
TO CN4005

CN4800
TO N1019

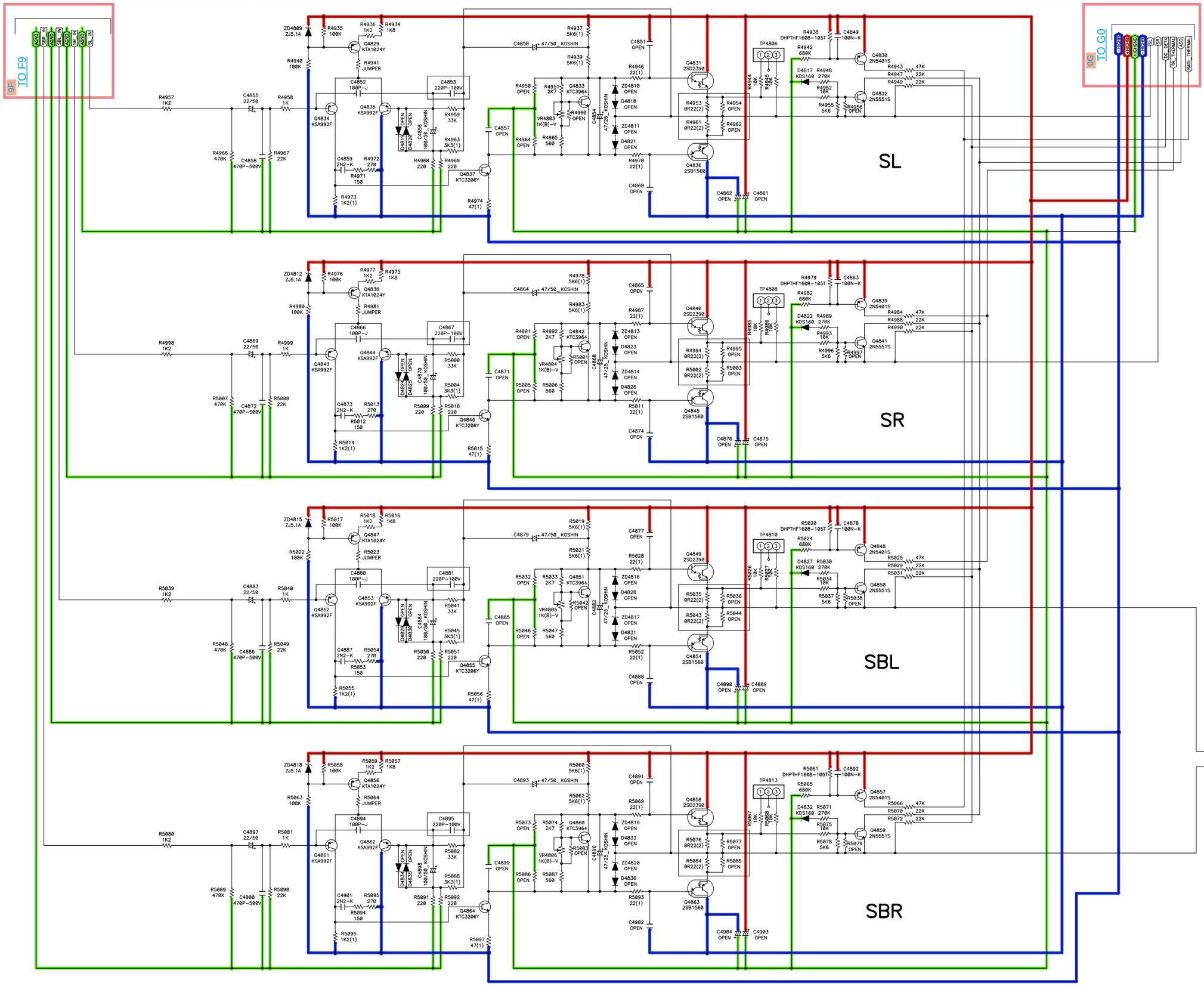
F9
TO 9F

G0
TO 0G

SCHEMATIC DIAGRAMS (23/30)
23-AMP (1/2)

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

7CH_AMP 2/2
REF : 4800-5199



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

SCHEMATIC DIAGRAMS (24/30)

24-AMP (2/2)

SPEAKER B'D

SPK_ SCNT 1/2

CN4000
TO CP4800

CN4003
TO CP4803

CN4005
TO CP4802

CP4000
TO CN5201

CP4002
TO CN5202

VOLTAGE DETECT

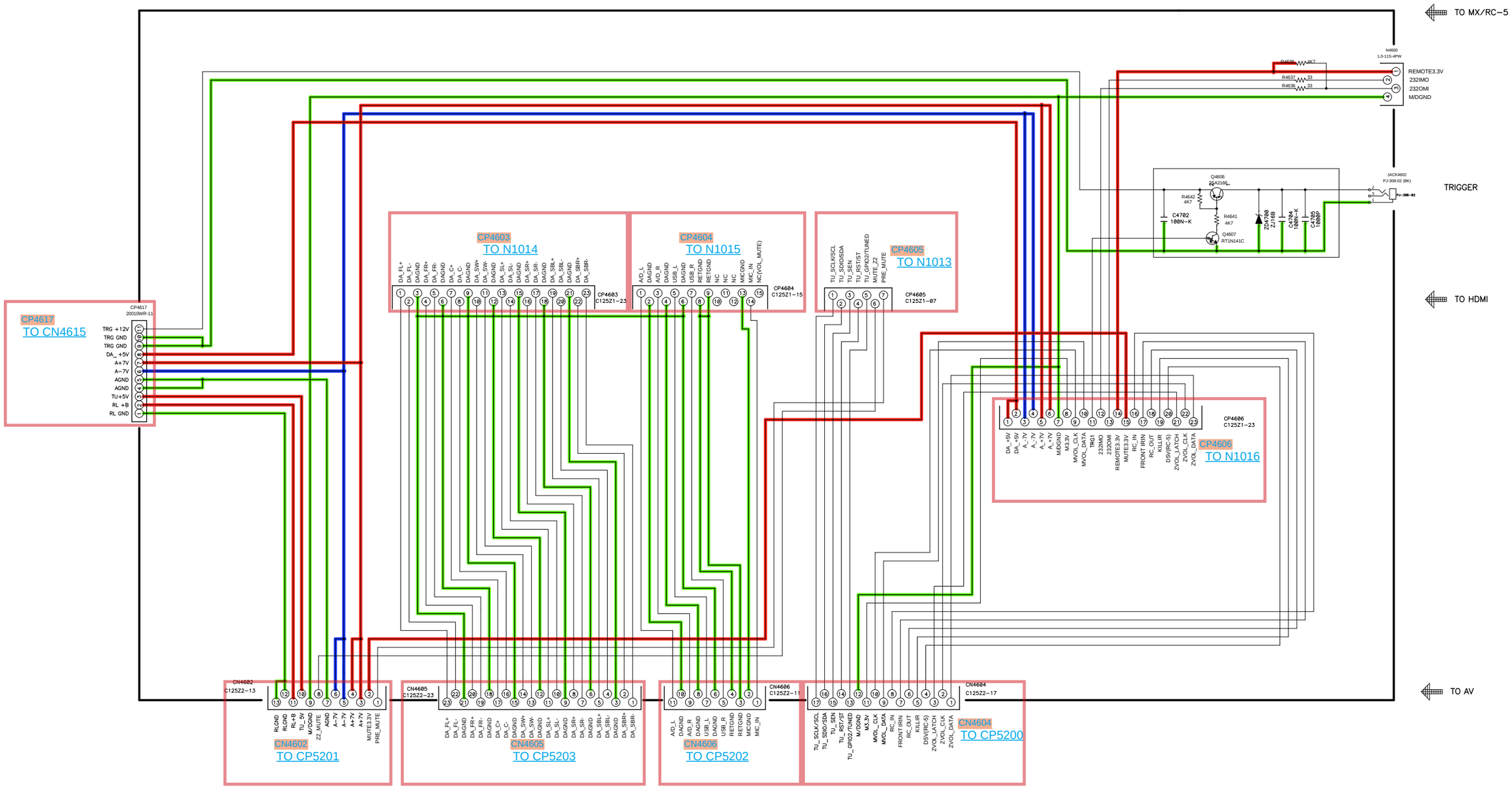
CURRENT DETECT

SCHEMATIC DIAGRAMS (25/30)

25-SPK

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

SIDE CONNECTOR



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

SCHEMATIC DIAGRAMS (26/30)

26-SIDE CNT

NR1605 FRONT B`D

FRONT 1/1
REF: 4400–4599

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

U4400
01BBT021GINK

AUTO HDMI DIGITAL ANALOG S.BACK dts AUDYSSEY TUNED STEREO RDS SLEEP
MUTE
PCM Z2
DIG. ANA.

CP4400
TO N1017

EC16B24S0-Z2Z SOURCE SEL ENCODER
EC16B24T01D4Z2Z MASTER VOL ENCODER

Mic, H/P B'D

USB B'D

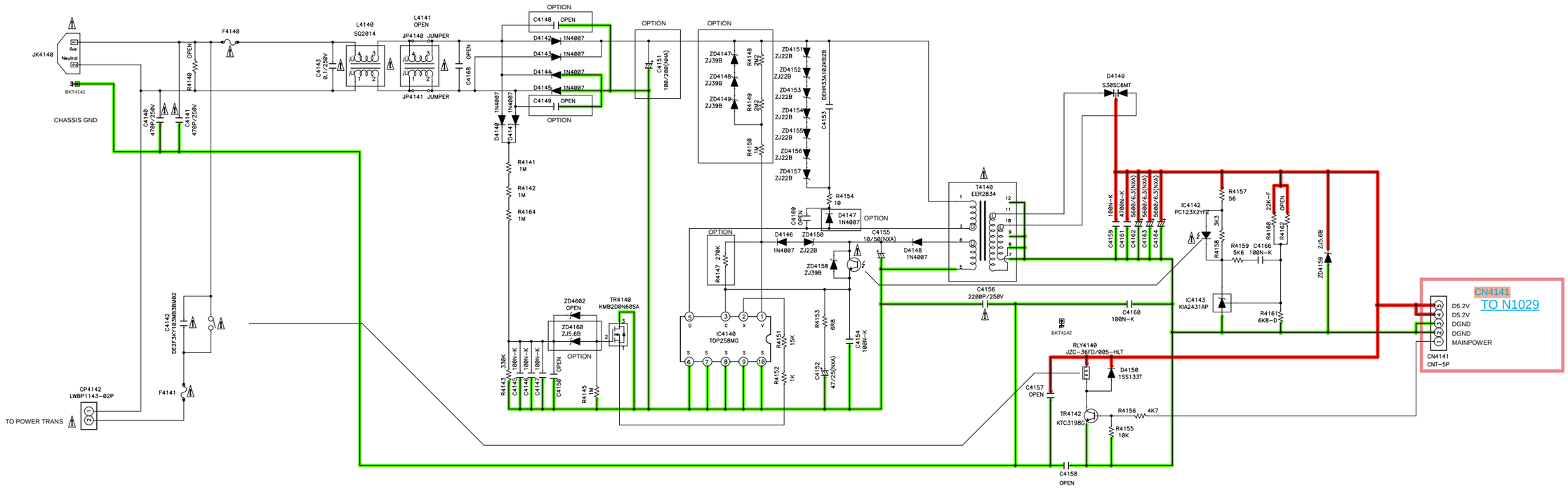
CN4401
TO N1008

SCHEMATIC DIAGRAMS (27/30)
27-FRONT

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

SMPS_REG_FCNT 1/3

NR1605 SMPS B'D



¡Ø FUSE OPTION

	U1B		FB		N1SG, N1B	
	F4140	F4141	F4140	F4141	F4140	F4141
NR1605	T2AL	T6.3AL	T2AL	T6.3AL	T1.6AL	T3.15AL

¡Ø OPTION TABLE

	ZD4160	ZD4147	ZD4148	ZD4149	R4148	R4149	R4150	R4147	C4148	C4149	C4151	D4147
U1B	ZJ5.6B	ZJ39B	ZJ39B	ZJ39B	2M2 (5)	2M2 (5)	1M (5)	270K	OPEN	OPEN	100/200	1N4007
N1B	ZJ15B	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	56K	0.01	0.01	100/400	AP01C
FB	ZJ5.1B	ZJ39B	ZJ39B	ZJ39B	2M2 (5)	2M2 (5)	1M (5)	270K	OPEN	OPEN	100/200	1N4007

¡Ø LINE_FILTER OPTION

	U1B	FB	N1SG, N1B
	L4140	L4140	L4140
NR1605	27mH	27mH	50mH

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

SCHEMATIC DIAGRAMS (28/30)

28-SMPS

NR1605_REG

SMPS_REG_FCNT 2/3

REGULATOR B'D

CN4607
TO CP4615

CN4607 120MM44P
VIDEO+5V
VIDEO_GND
VIDEO_GND
VIDEO-5V

CN4615
TO CP4617

CN4615 120MM11P
RL GND
RL +B
TU +5V
AGND
AGND
A-7V
A+7V
DA_+5V
TRG GND
TRG GND
TRG +12V

VIDEO +5V
VIDEO -5V
+8V
-8V
TRG+12V

IC4604 KIA7805API
IC4605 KIA7808API
IC4602 KIA7905PI
IC4603 KIA7908PI
IC4600 KIA7805API
IC4608 KIA7812API

D4608 OPEN
D4609 OPEN
D4610 OPEN
D4611 OPEN
D4633 OPEN
D4634 OPEN
D4604 1SS133
D4605 1SS133
D4606 1SS133
D4607 1SS133
D4600 1SS133
D4603 1N4007
D4602 1N4007

R4600 OPEN
R4601 OPEN
C4606 10/50
C4607 10/50
C4610 4700/16(16*25)
C4611 3300/16(12.5*25)
C4604 100/16
C4605 100/16
C4608 4700/25(MHA)
C4609 4700/25(MHA)
C4605 470/50
C4602 10/50
C4648 10/50
ZD4600 OPEN
ZD4601 OPEN
3P4631
3P4632
JUMPER

CP4600 C125Z1-09
-5V_IN
-5V_IN
VGND
VGND
+5V_IN
+5V_IN
TRG +12V
TRG +12V
TRG GND

CP4601 C125Z1-09
+8V_IN
+8V_IN
AGND
AGND
AGND
AGND
AGND
-8V_IN
-8V_IN

CN4600 C125Z2-09
-5V_IN
-5V_IN
VGND
VGND
+5V_IN
+5V_IN
TRG +12V
TRG +12V
TRG GND

CN4601 C125Z2-09
+8V_IN
+8V_IN
AGND
AGND
AGND
AGND
AGND
-8V_IN
-8V_IN

C4646 2200/25(16*25)
C4647 OPEN
BKT4602

D4631 1N4007
D4629 1N4007
D4632 1N4007
D4630 1N4007
D4624 1N4007
D4625 1N4007
D4616 1N4007
D4617 1N4007
D4626 1N4007
D4627 1N4007
D4618 1N4007
D4619 1N4007
D4620 1N4007
D4621 1N4007
D4622 1N4007
D4623 1N4007
D4612 1N4007
D4613 1N4007
D4614 1N4007
D4615 1N4007

F4600 T2.5A/250V(SS-5)
F4601 T1.6A/250V(SS-5)
F4602 T1.6A/250V(SS-5)
F4603B F4603A T1.6A/250V
F4604B F4604A T1.6A/250V

C4614 OPEN
C4615 OPEN
C4612 100N(M)-50V
C4613 100N(M)-50V

CP4607
AC_IN
VGND
AC_IN
AC_IN
NC
AC_IN
A_GND
AC_IN

FROM TRANS

F4604
T2.5AL/250V
F4600,F4601,F4602,F4603
T1.6AL/250V

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

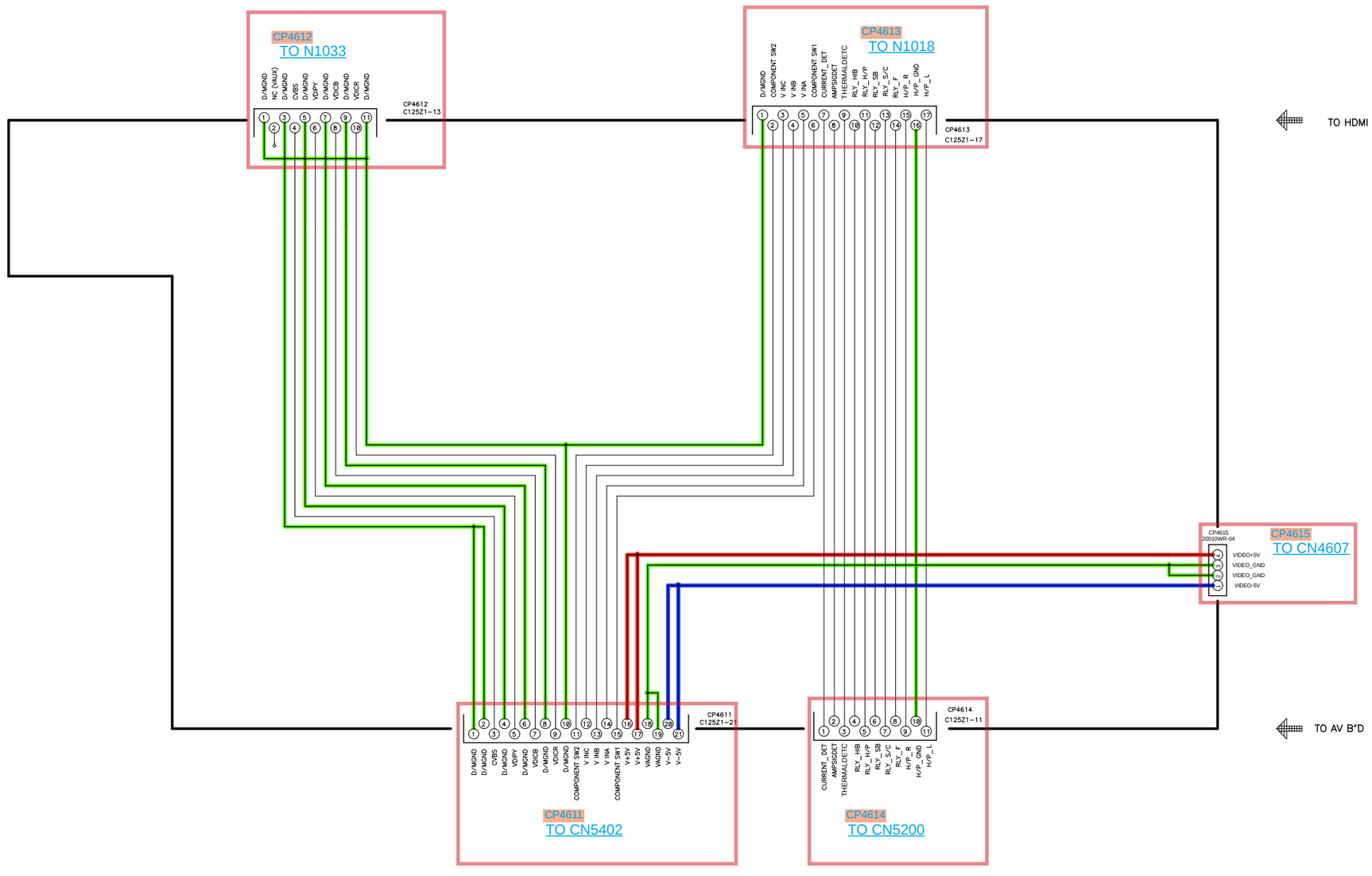
GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | VIDEO SIGNAL | COMPONENT(Y)

SCHEMATIC DIAGRAMS (29/30)

29-REG FCNT

SMPS_REG_FCNT 3/3

FRONT CONNECTOR



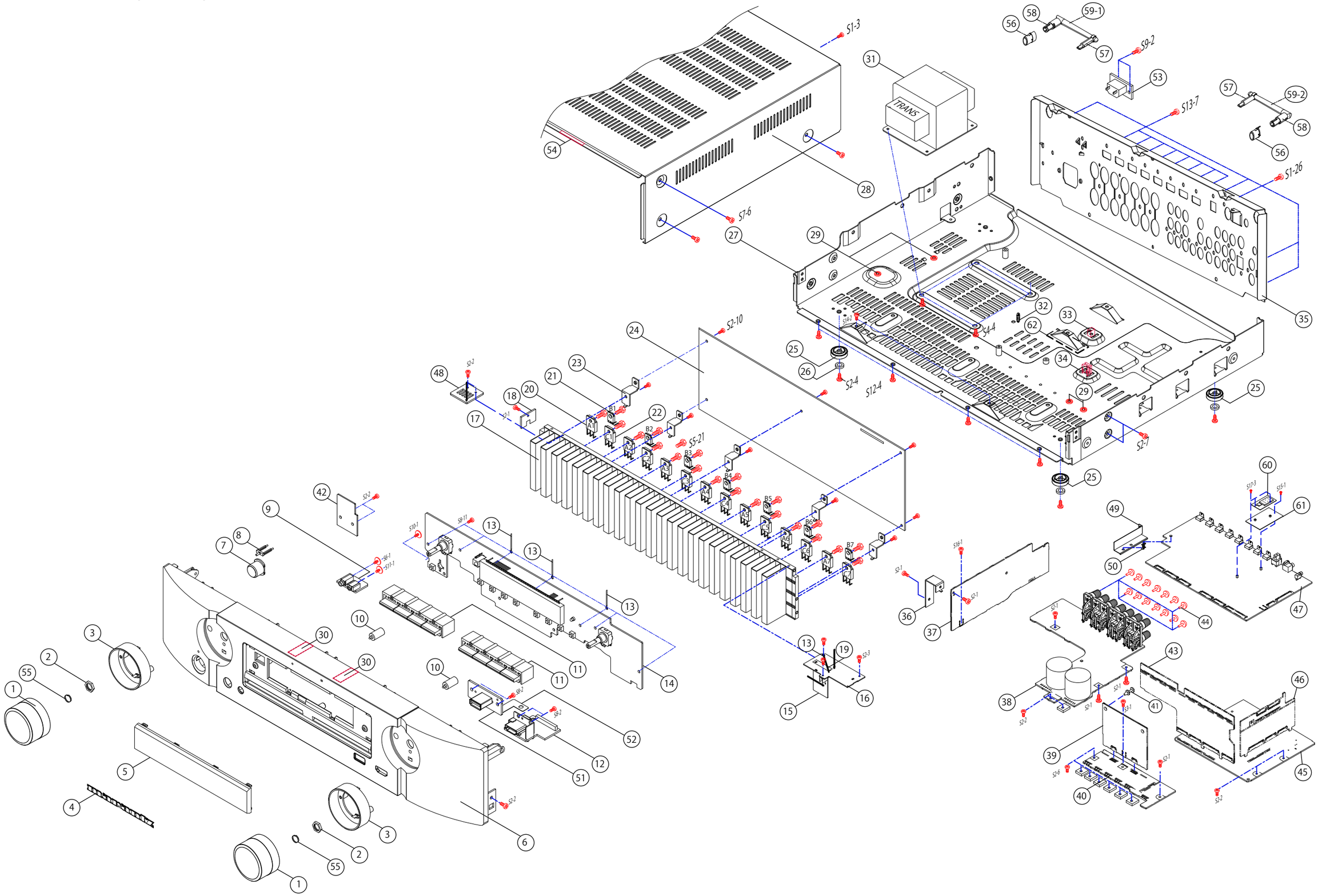
GND LINE POWER+ LINE POWER- LINE

SCHEMATIC DIAGRAMS (30/30)

30-FRONT CONNECTOR

EXPLODED VIEW

Please see the last chapter for the part list.



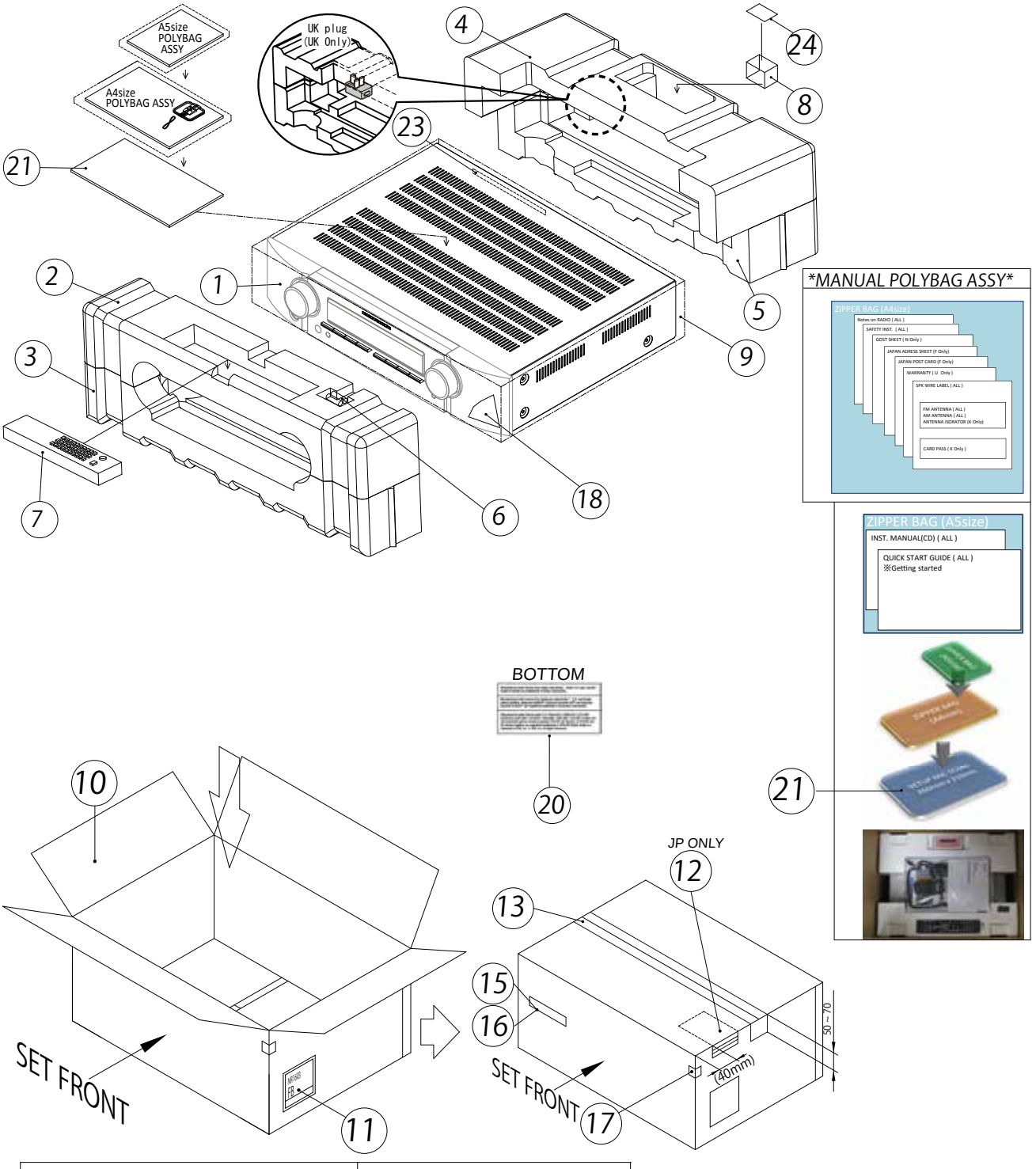
WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

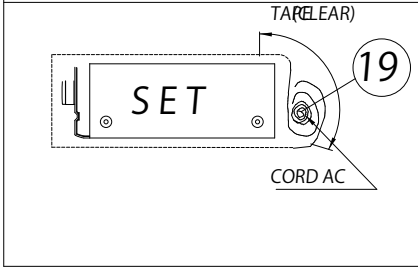
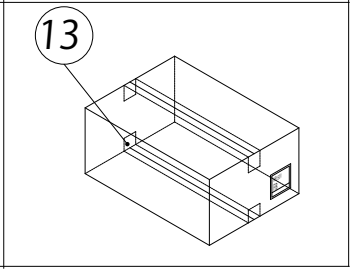
Personal notes:

Personal notes:

PACKING VIEW

Please see the last chapter for the part list.



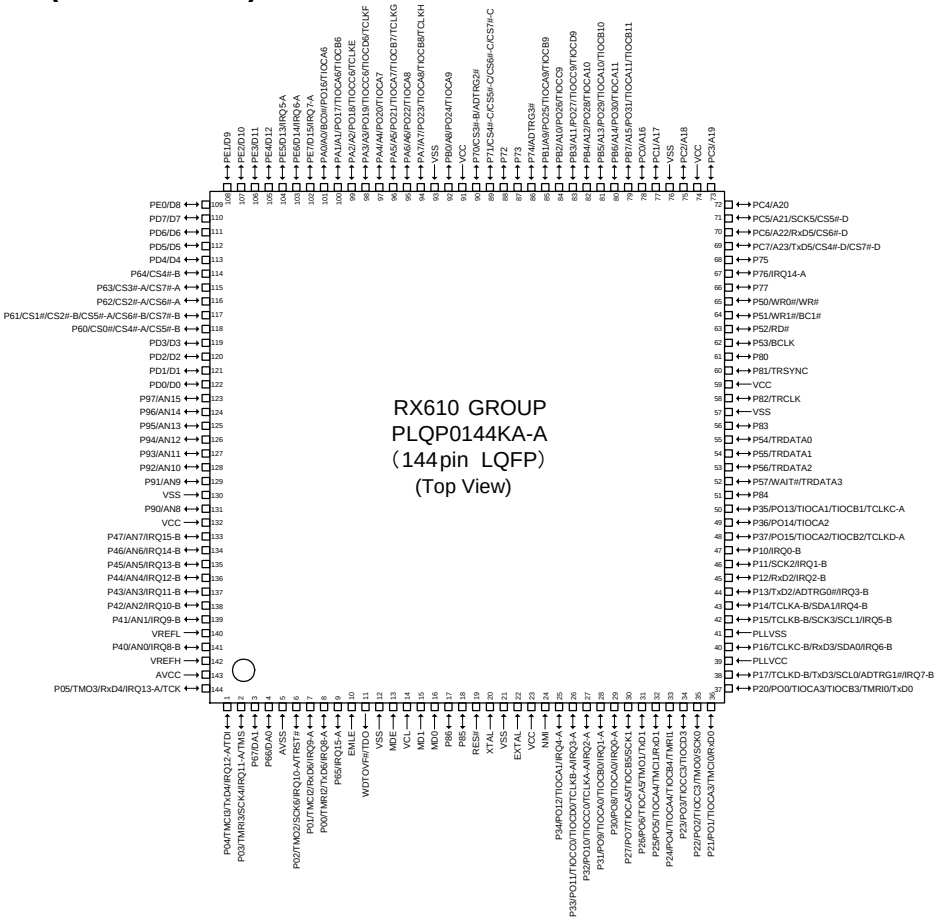
* POLY BAG PACKING STYLE	* BOX BOTTOM TAPE(O)
	

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 (HDMI : U1018)



R5F56108VNFP Terminal Functions

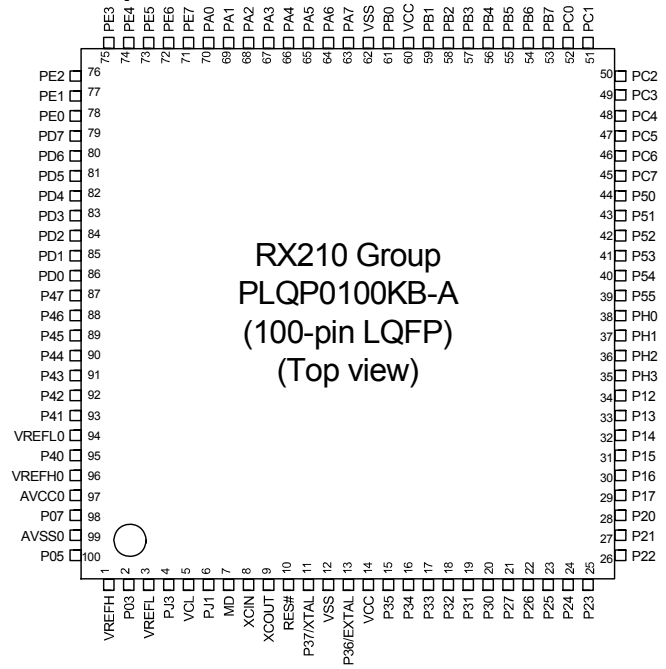
Pin	Pin Name	Symbol	I/O	Pu/Pd	STBY	STOP	CEC STBY	Function
1	P04/IRQ12-A/TMCI3/ TxD4/TDI	NC	I/O/I	M3VPu	-/-/I	-/-/I	I	Unused
2	P03/IRQ11-A/TMRI3/ SCK4/TMS	NC	I/I	M3VPu	-/I	-/I	I	Unused
3	P67/DA1	NC	O		L	L	L	NC
4	P66/DA0	NC	O		L	L	L	NC
5	AVSS	AVSS	-		-	-	-	GND
6	P02/IRQ10-A/TMO2/ SCK6/TRST#	NC	I/I	Pd	I/I	I/I	I	Unused
7	P01/IRQ9-A/TMCI2/ RxD6	RXD MI232O	I	Pd	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	BC	I	Pd	-	-	-	Unused
11	WDTOVF#/TDO	NC	O/O		-	-	-	Unused
12	VSS	VSS	I		-	-	-	GND
13	MDE	NC	I	Pd	-	-	-	Unused
14	VCL	VCL	I		-	-	-	Smoothing capacitor connection pin
15	MD1	NC	I	M3VPu	-	-	-	Unused
16	MD0	NC	I	M3VPu	-	-	-	Unused
17	P86	232C CONTROL(SUB LOG MODE)	O		L	L	L	SUB LOG MODE 232C course switching control

Pin	Pin Name	Symbol	I/O	Pu/Pd	STBY	STOP	CEC STBY	Function
18	P85	REMOTE POWER(232C) (SR5009)/ NC(NR1605)	O		L	L	L	232C POWER SUPPLY (REMOTE 3.3V) control pin.(ON: H) (SR5009 only)
19	RES#	RESET	I		-	-	-	Reset input (reset: L)
20	XTAL	XTAL	I		-	-	-	Oscillator connection
21	VSS	VSS	-		-	-	-	GND
22	EXTAL	EXTAL	-		-	-	-	Oscillator connection
23	VCC	VCC	-		-	-	-	+3.3V
24	NMI	NMI	I	M3VPu	-	-	-	Unused
25	P34/IRQ4-A/PO12/ TIOCA1	BDOWN	I		I	I	I	Power failure detection pin(Power failure:L)
26	P33/IRQ3-A/PO11/ TIOCC0/TIOCD0/ TCLKB-A	DAC.PLD ERR	I		L	L	L	PLD ERROR detection pin
27	P32/IRQ2-A/PO10/ TIOCC0/TCLKA-A	NC(NR1605(EU/ JP)/FLASHER IN(NR1605(NA)/ SR5009)	O/I		L/I	L/I	L/I	FLASHER (RC-5) input pin (NR1605 :U Version Only , SR5009 : All Version)
28	P31/IRQ1-A/PO9/ TIOCA0/TIOCB0	NC	O		L	L	L	NC
29	P30/IRQ0-A/PO8/ TIOCA0	RC IN	I		I	I	I	Remote control signal input pin
30	P27/PO7/TIOCA5/ TIOCB5/SCK1	NC	O		L	L	L	NC
31	P26/PO6/TIOCA5/ TMO1/TxD1	NC	O		L	L	L	NC
32	P25/PO5/TIOCA4/ TMCI1/RxD1	NC	O		L	L	L	NC
33	P24/PO4/TIOCA4/ TIOCB4/TMRI1	TU RST	O	SW3VPu	L	L	L	TUNER RESET pin
34	P23/PO3/TIOCC3/ TIOCD3	E RESET	O(ODR)	N3VPu	L	L	L	ETHERNET RESET control pin
35	P22/PO2/TIOCC3/ TMO0/SCK0	E SPI CLK	O	N3VPu	L	L	L	ETHERNET communication control pin
36	P21/PO1/TIOCA3/ TMCI0/RxD0	E SPI MIEO	I	N3VPu	I	L	I	ETHERNET communication control pin
37	P20/PO0/TIOCA3/ TIOCB3/TMRI0/TxD0	E SPI MOEI	O	N3VPu	L	L	L	ETHERNET communication control pin
38	P17/IRQ7-B/TCLKD-B/ TxD3/SCL0/ADTRG1#	TU SCLK	I_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	EEPROM SCL	O	M3VPu	I	I	I	EEPROM control pin
43	P14/IRQ4-B/TCLKA-B/ SDA1	EEPROM SDA	I_O	M3VPu	I	I	I	EEPROM control pin
44	P13/IRQ3-B/TxD2/ ADTRG0#	ADV8003 SPI MO	O		L	L	L	OSD control pin
45	P12/IRQ2-B/RxD2	ADV8003 SPI MI	I		L	L	L	OSD control pin
46	P11/IRQ1-B/SCK2	ADV8003 SPI CLK	O		L	L	L	OSD control pin
47	P10/IRQ0-B	ADV8003 SPI CS	O		L	L	L	OSD control pin
48	P37/PO15/TIOCA2/ TIOCB2/TCLKD-A	NC	O		L	L	L	NC
49	P36/PO14/TIOCA2	NC	O		L	L	L	NC
50	P35/PO13/TIOCA1/ TIOCB1/TCLKC-A	RC OUT	O		L/H	L/L	L/H	RC-5 CODE output pin
51	P84	KILL IR	O		L	L	L	Front IR Disable control pin
52	P57/WAIT#/TRDATA3	NC	O		L	L	L	NC
53	P56/TRDATA2	E POWER1	O		L	L	L	ETHERNET POWER SUPPLY (NET3.3V) control pin
54	P55/TRDATA1	E POWER2	O		L	L	L	ETHERNET POWER SUPPLY (NET2.5V) control pin
55	P54/TRDATA0	E POWER3	O		L	L	L	ETHERNET POWER SUPPLY (NET1.8V) control pin
56	P83	E POWER4	O		L	L	L	ETHERNET POWER SUPPLY (NET1.2V) control pin
57	VSS	VSS	-		-	-	-	GND

Pin	Pin Name	Symbol	I/O	Pu/Pd	STBY	STOP	CEC STBY	Function
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(X2100/ SR5009/NR1605)/ NC(E900)	O		L	L	L	ZONE VOLUME control pin
62	BCLK/P53(INPUT only)	NC	O		L	L	L	NC
63	P52/RD#	ZVOL CLK	O		L	L	L	ZONE VOLUME control pin
64	P51/WR1#/BC1#	ZVOL MUTE	O		L	L	L	ZONE VOLUME control pin
65	P50/WR0#/WR#	NC	O		L	L	L	NC
66	P77	THERMAL E	I	SW3VPu	I	L	I	HEAT PROTECT-E detection pin
67	P76/IRQ14-A	TU GPO2_INT	I		L	L	L	TUNER control pin
68	P75	SUB UPDATE	O		L	L	L	SUB UPDATEmode control(DPMS/DFW WRITTER)."L". SUB Program mode "H",then SUB RST.
69	PC7/A23/CS4#-D/ CS7#-D/TxD5	MOSI	O		L	L	L	MAIN-SUB ucom communication control pin
70	PC6/A22/CS6#-D/ RxD5	SOMI	I		I	L	I	MAIN-SUB ucom communication control pin
71	PC5/A21/CS5#-D/ SCK5	CLK MO	O		L	L	L	MAIN-SUB ucom communication control pin
72	PC4/A20	RST SUB	O		L	L	L	MAIN-SUB ucom communication control pin
73	PC3/A19	ACK SIMO	O		L	L	L	MAIN-SUB ucom communication control pin
74	VCC	VCC	-		-	-	-	+3.3V
75	PC2/A18	SUB CPU POWER	O		L	L	L	SUB CPU POWER SUPPLY control pin (POWER ON : H)
76	VSS	VSS	-		-	-	-	GND
77	PC1/A17	GREEN LED	O		L	L	L	POWER LED control pin(ON:H)
78	PC0/A16	RED LED	O		L/H	L	H	POWER/STANDBY LED control pin (ON:H)
79	PB7/A15/PO31/ TIOCA11/TIOCB11	H/P RL	O		L	L	L	HEADPHONE RLY control pin
80	PB6/A14/PO30/ TIOCA11	FRONT RL	O		L	L	L	SPEAKER RELAY control pin
81	PB5/A13/PO29/ TIOCA10/TIOCB10	NC(THERMAL F RESERVE)	I	SW3VPu	I	L	I	NC(THERMAL F RESERVE)
82	PB4/A12/PO28/ TIOCA10	TU SEN	O		L	L	L	TUNER control pin
83	PB3/A11/PO27/ TIOCC9/TIOCD9	C/S RL	O		L	L	L	SPEAKER RELAY control pin
84	PB2/A10/PO26/ TIOCC9	SB RL	O		L	L	L	SPEAKER RELAY control pin
85	PB1/A9/PO25/ TIOCA9/TIOCB9	D5V POWER	O		L	L	H	DIGITAL POWER SUPPLY (D5V) control pin (ON:H)
86	P74/ADTRG3#	NC	O		L	L	L	NC
87	P73	NC	O		L	L	L	NC
88	P72	NC	O		L	L	L	NC
89	P71/CS4#-C/CS5#-C/ CS6#-C/CS7#-C	NC	O		L	L	L	NC
90	P70/CS3#-B/ ADTRG2#	NC	O		L	L	L	NC
91	VCC	VCC	-		-	-	-	+3.3V
92	PB0/A8/PO24/TIOCA9	NC	O		L	L	L	NC
93	VSS	VSS	-		-	-	-	GND
94	PA7/A7/PO23/ TIOCA8/TIOCB8/ TCLKH	NC(NR1605)/FIL_ CTRL(SR5009)	O		L	L	L	FLD Filament voltage on/off pin (SR5009 only)
95	PA6/A6/PO22/TIOCA8	VSEL A	I		I	I	I	Master Volume rotation detection pin(Rotary encoder)
96	PA5/A5/PO21/ TIOCA7/TIOCB7/ TCLKG	VSEL B	I		I	I	I	Master Volume rotation detection pin(Rotary encoder)
97	PA4/A4/PO20/TIOCA7	NC	O		L	L	L	NC
98	PA3/A3/PO19/ TIOCC6/TIOCD6/ TCLKF	DAC(ETHER) MUTE	O		L	L	L	DAC (ETHER) MUTE control pin (MUTE ON="L")
99	PA2/A2/PO18/ TIOCC6/TCLKE	PRE Z2 MUTE	O		L	L	L	Z2 PRE OUT MUTE control pin

Pin	Pin Name	Symbol	I/O	Pu/Pd	STBY	STOP	CEC STBY	Function
100	PA1/A1/PO17/ TIOCA6/TIOCB6	CLK MUTE	O		L	L	L	A.PLD MUTE control pin (MUTE Active="H")
101	PA0/A0/BC0#/PO16/ TIOCA6	PRE MUTE	O		L	L	L	PRE OUT MUTE control pin
102	PE7/IRQ7-A/D15	E FACT RST	O	Pd	L	L	L	ETHERNET communication control pin(Factory Reset)
103	PE6/IRQ6-A/D14	NC	O		L	L	L	NC
104	PE5/IRQ5-A/D13	REQ SOMI	I		I	L	I	MAIN-SUB ucom communication control pin
105	PE4/D12	ISEL A	I		I	I	I	Input Selector rotation detection pin(Rotary encoder)
106	PE3/D11	ISEL B	I		I	I	I	Input Selector rotation detection pin(Rotary encoder)
107	PE2/D10	VOL CLK1	O		L	L	L	FUNCTION / VOLUME control pin (R2A15218)
108	PE1/D9	VOL DATA	O		L	L	L	FUNCTION / VOLUME control pin (R2A15218)
109	PE0/D8	NC	O		L	L	L	NC
110	PD7/D7	NC	O		L	L	L	NC
111	PD6/D6	NC	O		L	L	L	NC
112	PD5/D5	ASO DET	I	SW3VPu	I	I	I	ASO PROTECT detection pin
113	PD4/D4	DC DET	I	SW3VPu	I	I	I	DC PROTECT detection pin
114	P64/CS4#-B	NC	O		L	L	L	NC
115	P63/CS3#-A/CS7#-A	TRIGGER OUT	O		L	L	L	TRIGGER OUT control pin
116	P62/CS2#-A/CS6#-A	E SPI CS	O	N3VPu	L	L	L	ETHERNET communication control pin
117	P61/CS1#/CS2#-B/ CS5#-A/CS6#-B/ CS7#-B	Hi-B RL	O		L	L	L	HIGH B RELAY control pin
118	P60/CS0#/CS4#-A/ CS5#-B	NC	O		L	L	L	NC
119	PD3/D3	DIRECT LED	O		L	L	L	DIRECT LED Control pin
120	PD2/D2	M-DAX LED	O		L	L	L	M-DAX LED Control pin
121	PD1/D1	FL CLK	O		L	L	L	VFD control pin
122	PD0/D0	FL DATA	O		L	L	L	VFD control pin
123	P97/AN15	NC(THERMAL C RESERVE)	O		I	L	I	NC(THERMAL C RESERVE)
124	P96/AN14	NC(THERMAL D RESERVE)	O		I	L	I	NC(THERMAL D RESERVE)
125	P95/AN13	THERMAL A	I	SW3VPu	I	L	I	HEAT PROTECT-A detection pin
126	P94/AN12	THERMAL B	I	SW3VPu	I	L	I	HEAT PROTECT-B detection pin
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	AMPSIGDET	I		I	L	I	AMP SIGNAL detection pin
130	VSS	VSS	-		-	-	-	GND
131	P90/AN8	MODE	I		I	I	I	Destination detection pin
132	VCC	VCC	-		-	-	-	+3.3V
133	P47/IRQ15-B/AN7	MIC DET	I		I	I	I	MIC detection detection pin
134	P46/IRQ14-B/AN6	H/P DET	I		I	I	I	Headphone detection detection pin
135	P45/IRQ13-B/AN5	KEY3	I	M3VPu	I	I	I	Button input 3
136	P44/IRQ12-B/AN4	KEY2	I	M3VPu	I	I	I	Button input 2
137	P43/IRQ11-B/AN3	KEY1	I	M3VPu	I	I	I	Button input 1
138	P42/IRQ10-B/AN2	E SPI REQ	I	Pd	I	L	I	ETHERNET communication control pin
139	P41/IRQ9-B/AN1	NC	O		L	L	L	NC
140	AVSS	AVSS	-		-	-	-	GND
141	P40/IRQ8-B/AN0	CURRENT DET	I		I	L	I	AMP CURRENT detection 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/I/I	M3VPu	-/-/I	-/-/I	I	Unused

R5F5210ABDFP (HDMI : U1020)



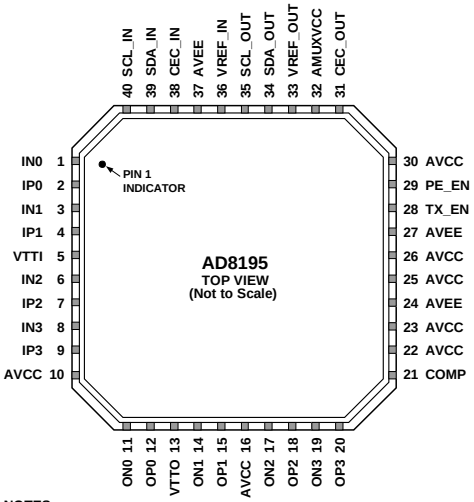
R5F5210ABDFP Terminal Functions

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

Pin	Symbol	Pin Name	I/O	Pu/Pd	LvCnv	STBY	CEC STBY	Function
34	P12/SCL/IRQ2	778_1_RST	O	C	Pd	Z	※	HDMI MN8647781(TX) RESET control pin
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

AD8195ACPZ (HDMI : U1022)

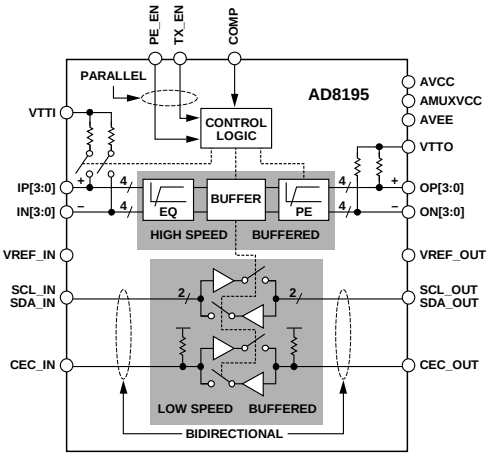


NOTES
1. THE AD8195 LFCSP HAS AN EXPOSED PAD ON THE UNDERSIDE OF THE PACKAGE THAT AIDS IN HEAT DISSIPATION. THE PAD MUST BE ELECTRICALLY CONNECTED TO THE AVEE SUPPLY PLANE IN ORDER TO MEET THERMAL SPECIFICATIONS.

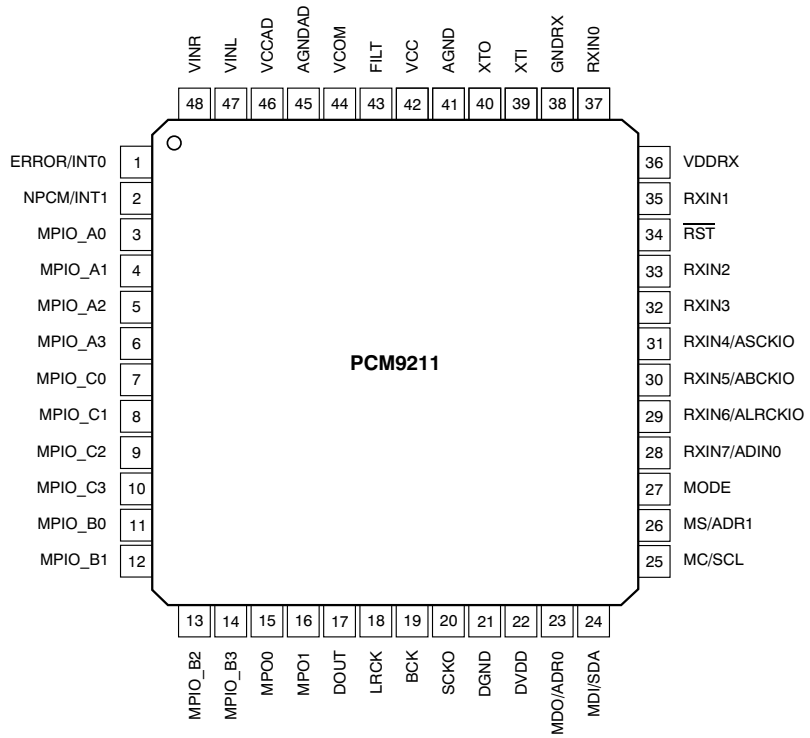
AD8195ACPZ Terminl Function

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

AD8195ACPZ Block diagram



PCM9211 (HDMI : U1040)



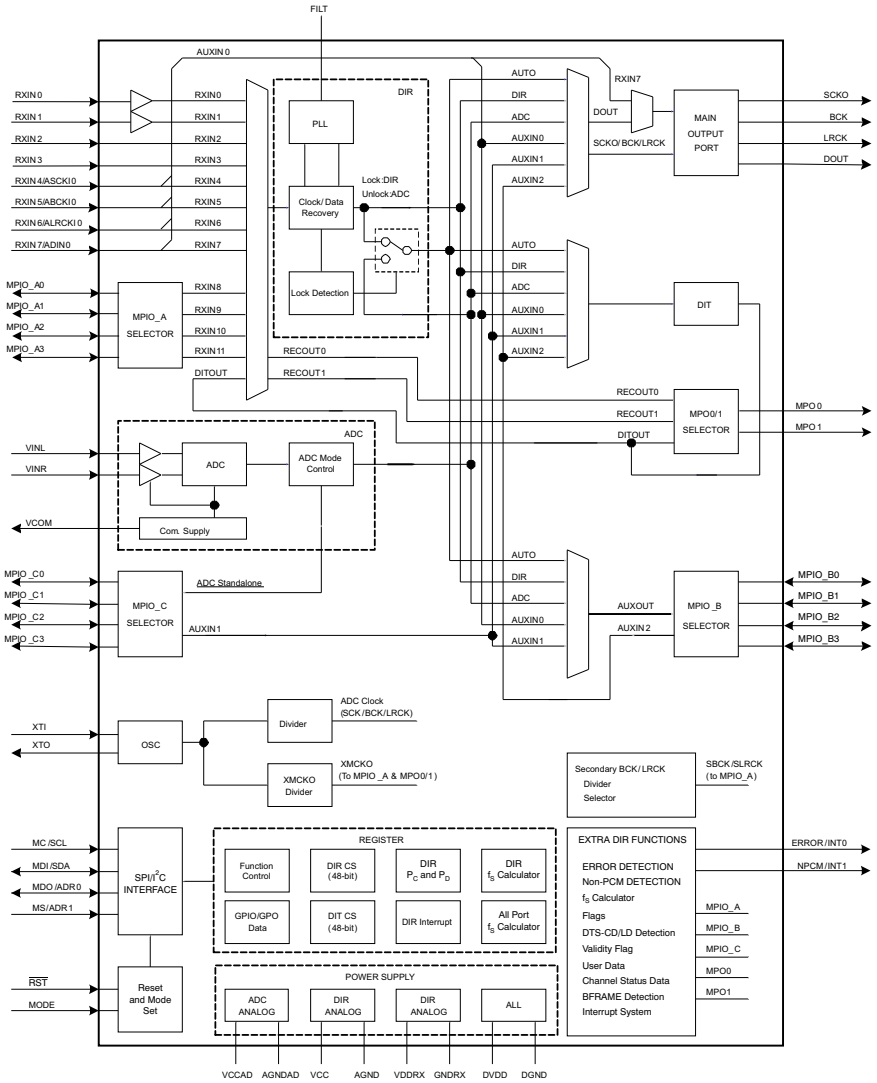
PIN Functions

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)

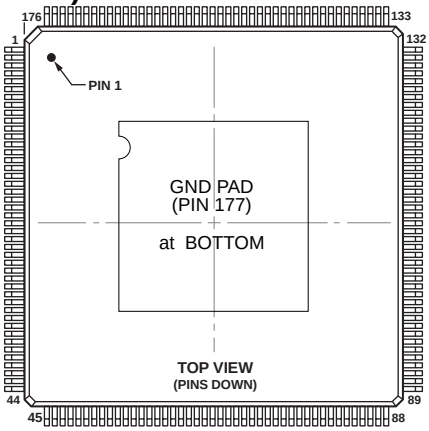
PIN				DESCRIPTION
NO.	NAME	I/O	5-V TOLERANT	
34	RST	I	Yes	Reset Input, active low(2) (4)
35	RXIN1	I	Yes	Biphase signal, input 1, built-in coaxial amplifier
36	VDDRX	–	–	Power supply, 3.3 V (typ.), for RXIN0 and RXIN1.
37	RXIN0	I	Yes	Biphase signal, input 0, built-in coaxial amplifier
38	GNDRX	-	-	Ground,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

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

PCM9211 BLOCK DIAGRAM



ADSP21487KSWZ3B (HDMI : U1024)

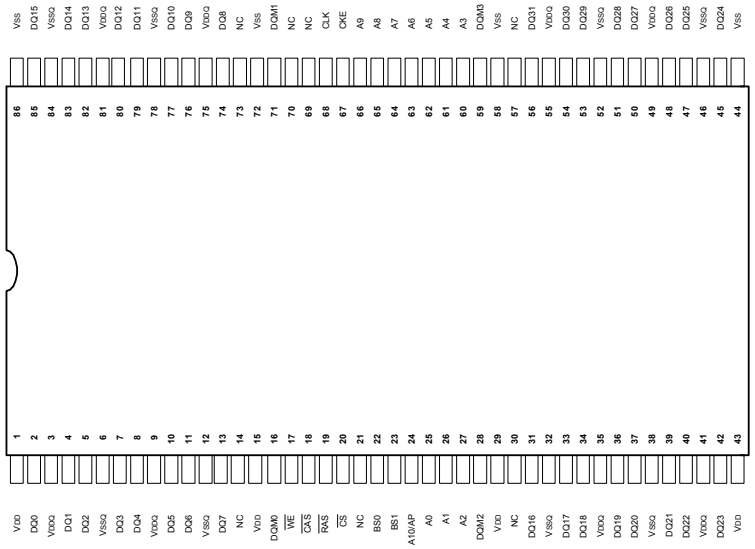


ADSP21487KSWZ3B Terminal Function

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

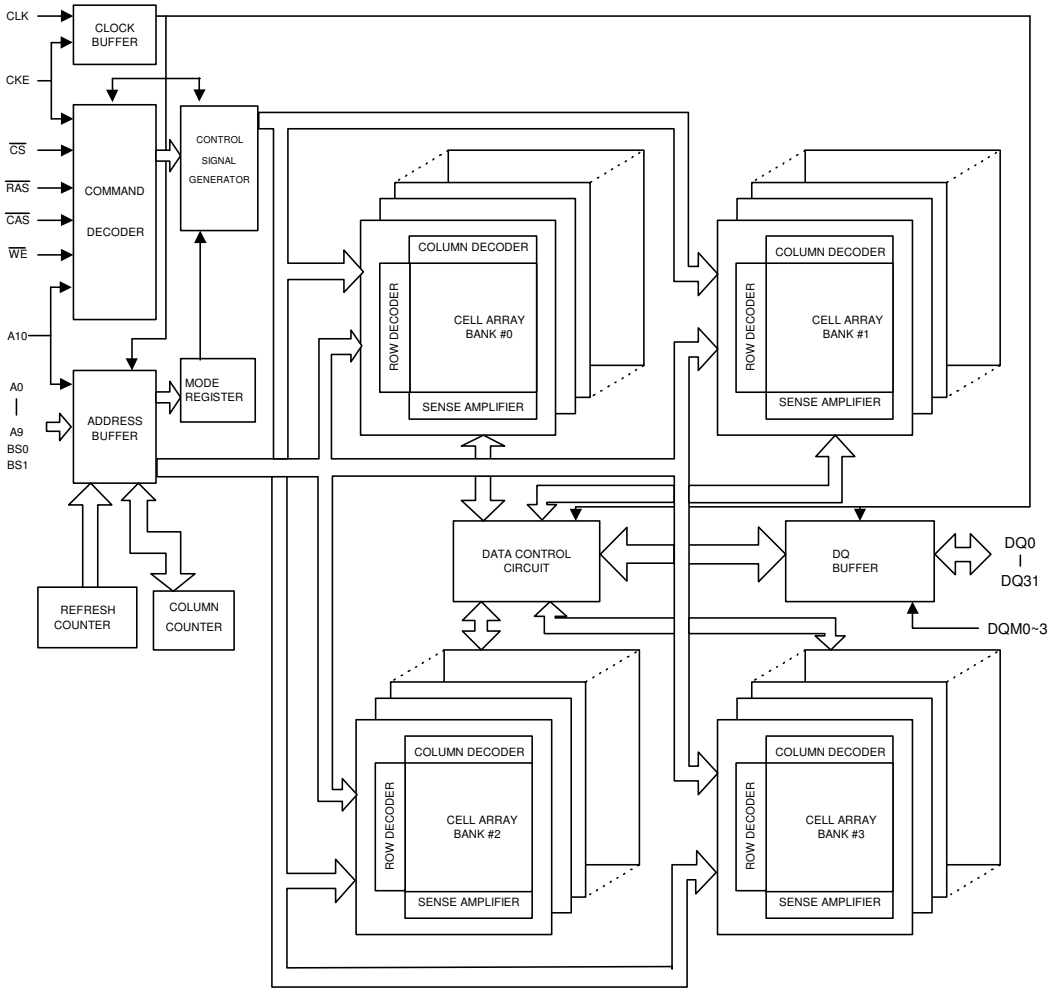
W9864G6JH-6 (HDMI : U1023)



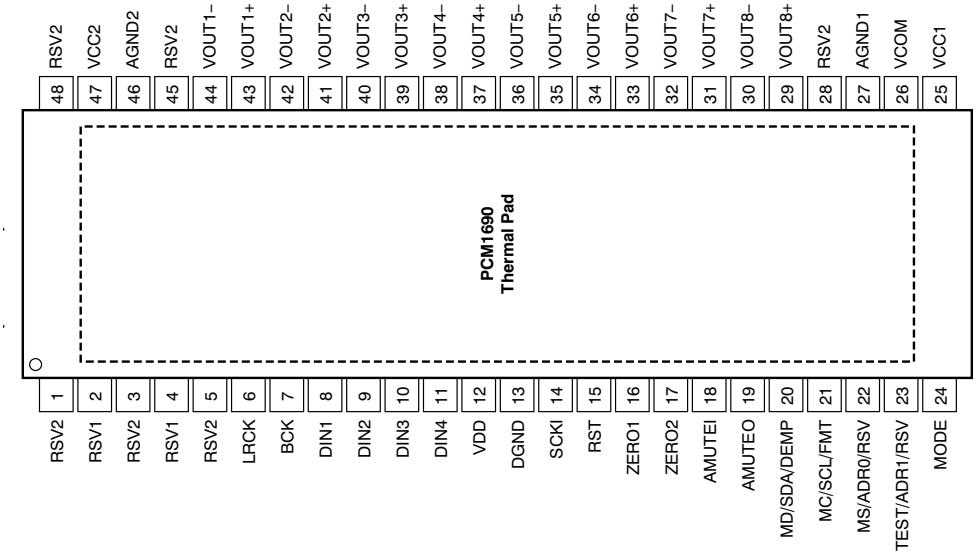
W9864G6JH-6 Pin description

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

W9864G6JH-6 Block diagram



PCM1690 (HDMI : U1048)



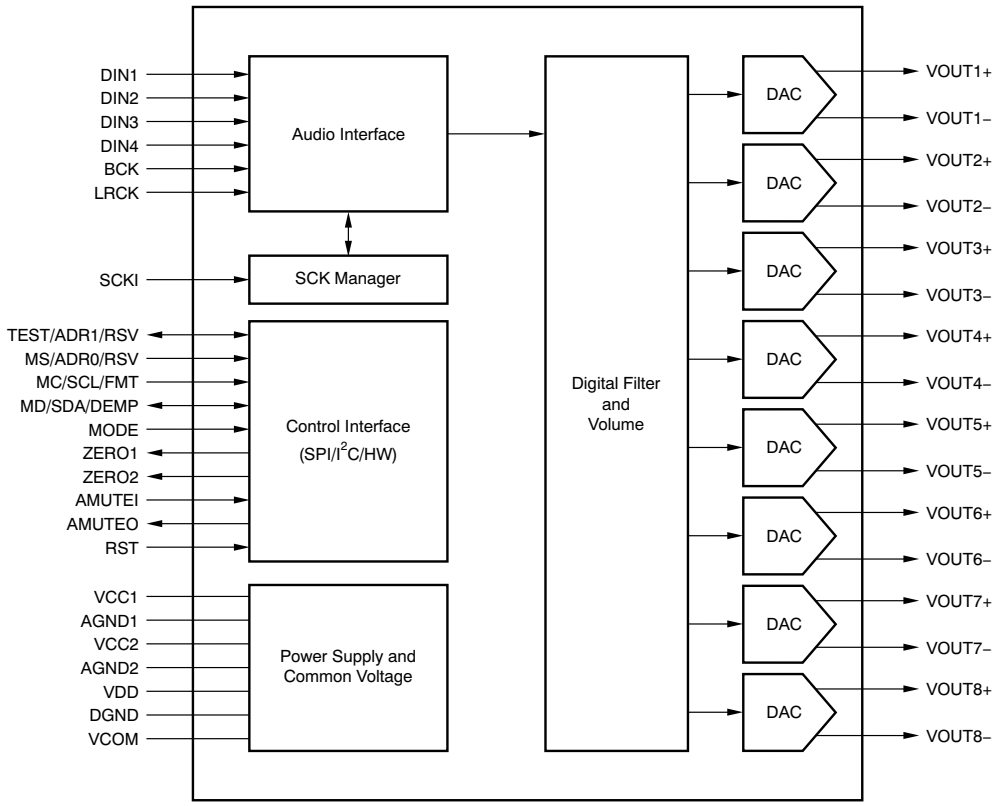
PCM1690 Pin Function

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



PCM5100 (HDMI:U1052)

PCM510X (top view)

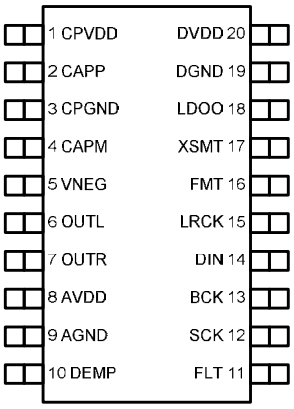


Table 2. TERMINAL FUNCTIONS, PCM510x

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

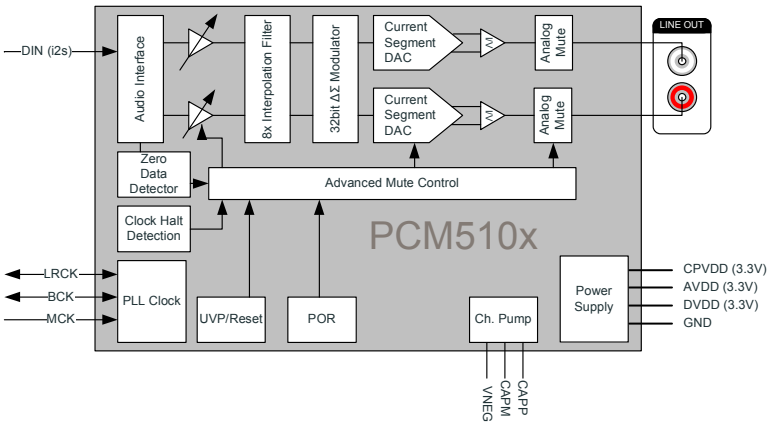
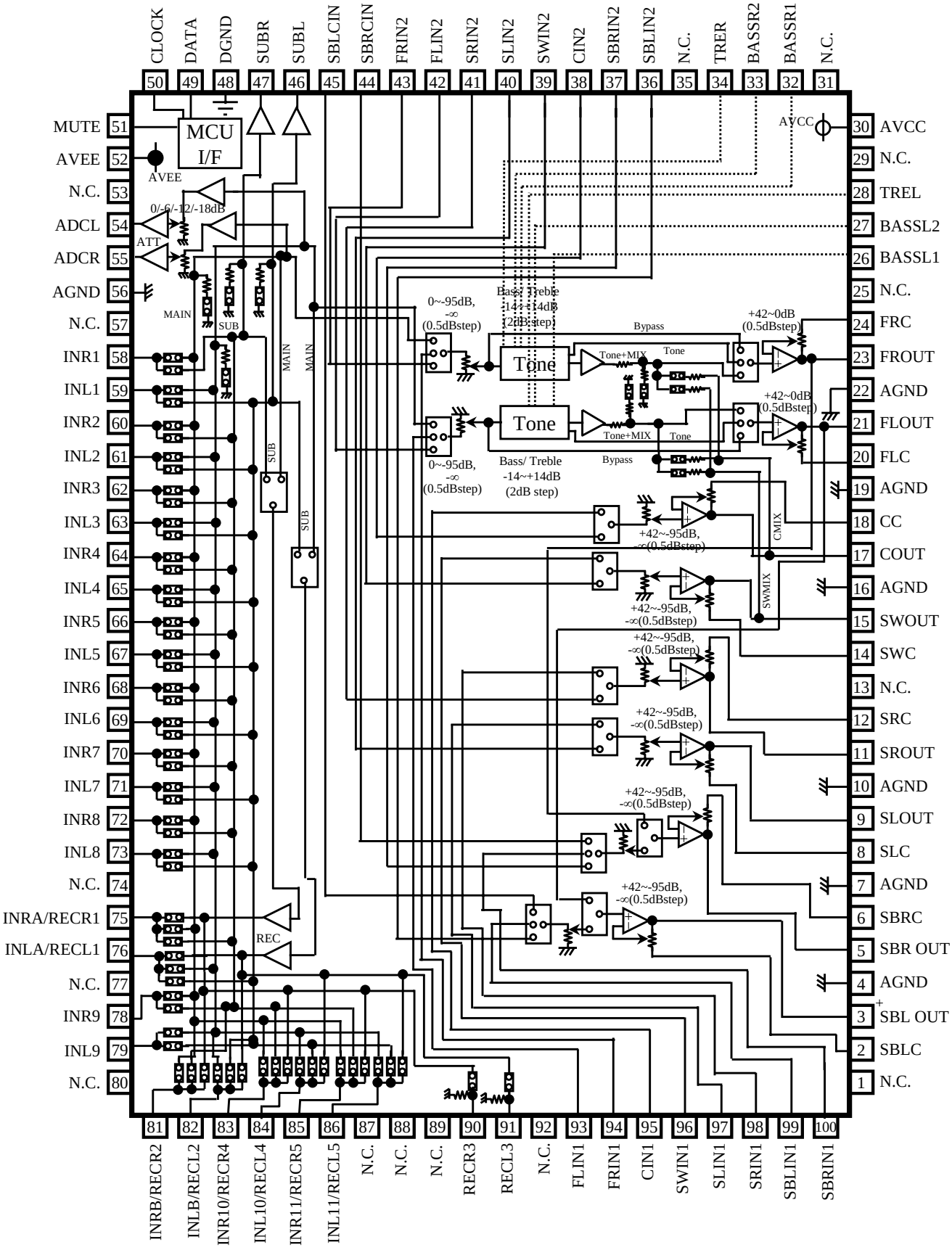


Figure 1. PCM510x Functional Block Diagram

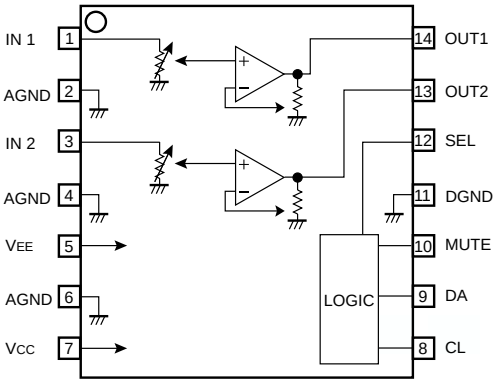
R2A15218FP (AV : IC5200)



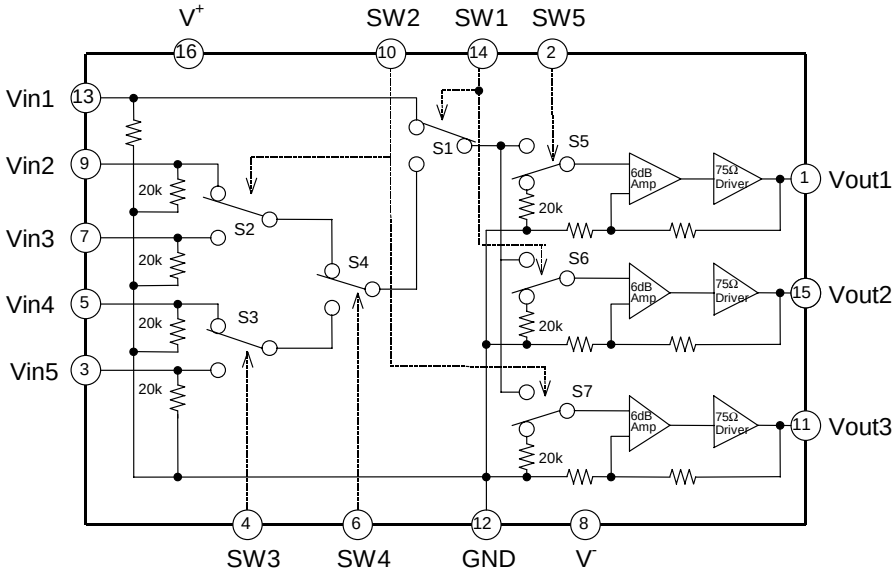
R2A15218FP Pin Function

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

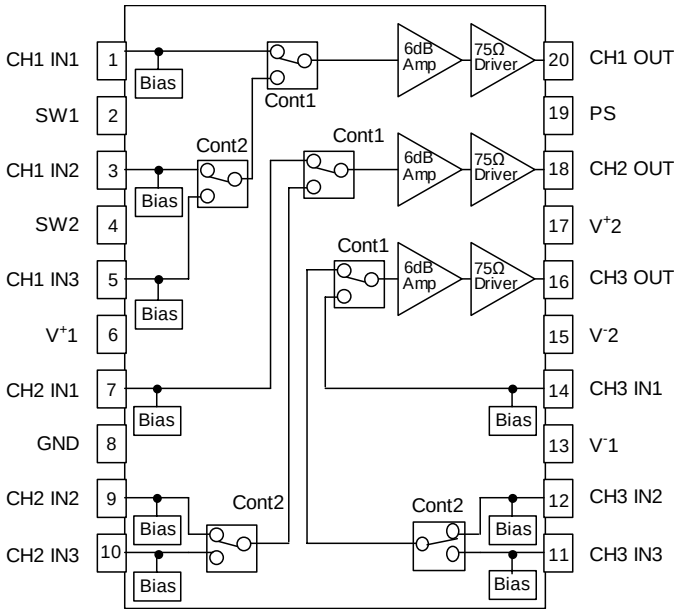
BD3812F (AV:IC5202)



NJM2595MTE1 (AV:IC5401)



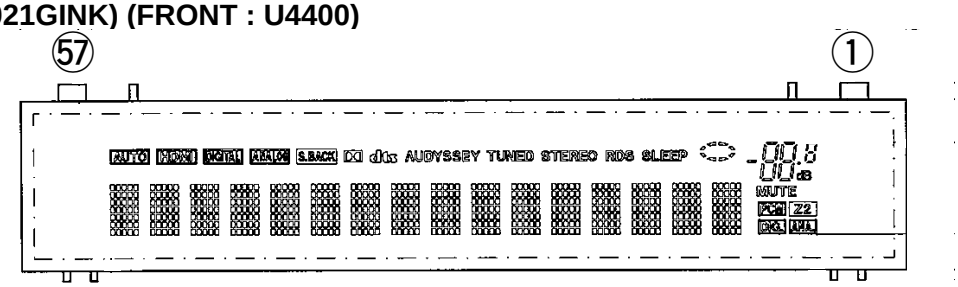
NJM2586AVC3(AV:IC5402)



SSOP20-C3

2. FL DISPLAY

FLD (018BT021GINK) (FRONT : U4400)



PIN CONNECTION

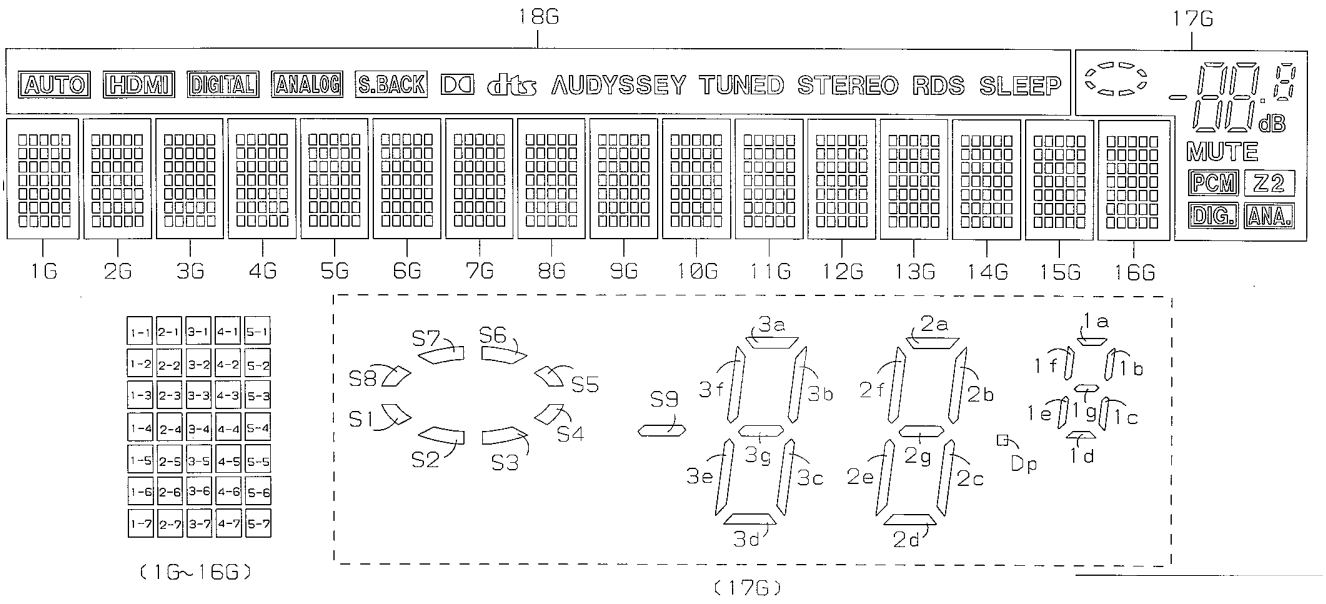
PIN CONNECTION

PIN NO.	57	56	55	54	53	52	51
CONNECTION	F2	NP	NP	NP	LGND	PGND	VH

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	VDD	OSC	RESET	CS	DA	TSA	TSB	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	18G	17G	Q18G	Q17G	NP	NP	NP	F1

NOTE 1) F1,F2 --- Filament
2) NP ------ No pin
3) DL ------ Datum Line
4) NX ------ No extend pin
5) LGND -----Logic GND pin
6) PGND -----Power GND pin
7) VH ------ High Voltage Supply pin
8) VDD ----- Logic Voltage Supply pin
9) CP ------ Shift Register Clock
10) DA ------ Serial Data Input
11) TSA,B --- Test pin
12) CS ------ Chip Select Input pin
13) RESET --- Reset Input
14) OSC ----- Pin for self-oscillation
15) Solder composition is Sn-3Ag-0.5Cu.
16) 17G,18G ----- Grid
17) Q17G,Q18G ----- Driver Output Port.
18) Field of vision is a minimum of 21.8° from the lower side.

GRID ASSIGNMENT



ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G	14G	15G	16G	17G (AD3)	18G (AD4)
D0	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	S9	-
D1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	3d	-
D2	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	2d	-
D3	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	3e	-
D4	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	2e	-
D5	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	3c	-
D6	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2c	-
D7	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3g	-
D8	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	2g	-
D9	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	3f	-
D10	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	2f	-
D11	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	3b	-
D12	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	2b	-
D13	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	3a	-
D14	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	2a	-
D15	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	Dp	-
D16	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	dB	-
D17	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	1d	-
D18	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	1e	-
D19	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	1c	-
D20	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1g	-
D21	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	1f	-
D22	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	1b	-
D23	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	1a	AUTO
D24	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	S1	HDMI
D25	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	S2	DIGITAL
D26	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	S3	ANALOG
D27	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	S4	S.BACK
D28	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	S5	DD
D29	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	S6	dts
D30	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	S7	AUDYSSEY
D31	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	S8	TUNED
D32	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	MUTE	STEREO
D33	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	PCM	RDS
D34	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	Z2	SLEEP
AD1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DIG.	-
AD2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ANA.	-

SPK_SCNT PCB ASS'Y

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

※The parts listed b NOTE:The symbols in the column Remarks indicate the following destinations.

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

B : Black model SG : Silver gold model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D4003	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	1		
	D4006	963203500300D	DIODE BRIDGE D10SB60 600V/10A STRAIGHT TYPE		K047100600220S	1		
	D4007-4020	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	14		
	DZ4000	963202500330D	ZJ6.8B-0.5W/5MA-52MM SEMTECH		K06006R844522S	1		
	DZ4001	963202500290D	ZJ3.6B-0.5W/5MA-52MM SEMTECH		K06003R644522S	1		
	IC4000	963232100400S	UTC4580E SOP8 DUAL OP AMP		J121458001010S	1		
	Q4000	963214500310S	RT1N237C 0.2W/SC-59 ISAHAYA		J522102371210S	1	*	
	Q4002	963214500310S	RT1N237C 0.2W/SC-59 ISAHAYA		J522102371210S	1	*	
	Q4004	963214500310S	RT1N237C 0.2W/SC-59 ISAHAYA		J522102371210S	1	*	
	Q4006	963214500310S	RT1N237C 0.2W/SC-59 ISAHAYA		J522102371210S	1	*	
	Q4008	963214500310S	RT1N237C 0.2W/SC-59 ISAHAYA		J522102371210S	1	*	
	Q4011	963214500310S	RT1N237C 0.2W/SC-59 ISAHAYA		J522102371210S	1	*	
	Q4606	963212500280S	2SA2166 0.2W/SC-59 ISAHAYA		J520216601210S	1	*	
	Q4607	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1		
	ZD4057	963202500290D	ZJ3.6B-0.5W/5MA-52MM SEMTECH		K06003R644522S	1		
	ZD4700	963202500400S	ZJ16B-0.5W/5MA-52MM SEMTECH		K06016R044522S	1		
	RESISTOR GROUP							
	R4000-4006	nsp	10-J,1/5W-52RE-AX		C00001006P520S	7		
	R4007-4013	963125010100S	10-J 2W, R-REEL		C060010066050S	7		
	R4016,4017	nsp	470-J,1W-R.REEL		C060047165050S	2		
	R4020	nsp	10K-J,1/4W-R.REEL		C060103063050S	1		
	R4022	963125500070D	1.1K-J,1W-R.REEL		C060011265050S	1		
	R4024	963125500070D	1.1K-J,1W-R.REEL		C060011265050S	1		
	R4027	963125500070D	1.1K-J,1W-R.REEL		C060011265050S	1		
	R4032	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
	R4034-4040	nsp	470K-J,1/16W-1608REEL		C20004746M160S	7		
	R4041	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4042	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4043	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4044	nsp	3.3K-J,1/5W-52RE-AX		C00003326P520S	1		
	R4045	nsp	22K-J,1/16W-1608REEL		C20002236M160S	1		
	R4046	nsp	33K-J,1/16W-1608REEL		C20003336M160S	1		
	R4047	nsp	330K-J,1/16W-1608REEL		C20003346M160S	1		
	R4048	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4049	nsp	22K-J,1/16W-1608REEL		C20002236M160S	1		
	R4050	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4051	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1		
	R4052,4053	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	R4055-4059	nsp	0-J,1/8W-3216REEL		C200000061301S	5	*	
	R4061	963129501010S	0.01-J/5W W14*H18 9MM PITCH		C144R01069000S	1	*	
	R4636,4637	nsp	33-J,1/16W-1608REEL		C20003306M160S	2		
	R4638	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	1		
	R4641,4642	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	2		
	CAPACIITORS GROUP							
	C4000-4006	nsp	MI-0.047UF-J/50V-5RE		D020473167050S	7		
	C4007	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1		
	C4008-4014	nsp	MI-0.047UF-J/50V-5RE		D020473167050S	7		
	C4015	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C4016-4022	nsp	X7R)2200PF-K/50V-1608REEL	U/F	D011222777160S	7		
	C4016-4022	nsp	X7R0.01UF-K/50V-1608REEL	N	D011103777160S	7		
	C4030,4031	00D9639003107	6800UF-M/63V DL,30*40-VNSN SY		D040682088010S	2		
	C4033	nsp	X7R)1000PF-K/50V-1608REEL		D011102777160S	1		
	C4036	nsp	X7R)1000PF-K/50V-1608REEL		D011102777160S	1		
	C4039	nsp	X7R)1000PF-K/50V-1608REEL		D011102777160S	1		
	C4042	nsp	X7R)1000PF-K/50V-1608REEL		D011102777160S	1		
	C4045	nsp	X7R)1000PF-K/50V-1608REEL		D011102777160S	1		
	C4048	nsp	X7R)1000PF-K/50V-1608REEL		D011102777160S	1		
	C4051	nsp	X7R)1000PF-K/50V-1608REEL		D011102777160S	1		
	C4053	nsp	RED-0.1UF-K/250V-5RE PCMT365		D02010407H080S	1		
	C4054	nsp	X7R)1000PF-K/50V-1608REEL		D011102777160S	1		
	C4056	00D9630244606	0.1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040R100870805	1		
	C4057	nsp	RED-0.1UF-K/250V-5RE PCMT365		D02010407H080S	1		
	C4058	nsp	X7R)0.1UF-K/25V-1608REEL		D011104774161S	1		
	C4059	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C4060,4061	nsp	X7R)0.1UF-K/25V-1608REEL		D011104774161S	2		
	C4062	00D9630333203	100UF-M/16V,5*11-5RE,SHL SY		D040101083090S	1		
	C4064	nsp	COG)10PF-J/50V-1608REEL		D010100167161S	1		
	C4065	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C4066-4068	00D9609010625	1UF-M/100V,5*11-5RE.SMS SY		D040010086060S	3		
	C4702	nsp	X7R)0.1UF-K/25V-1608REEL		D011104774161S	1		
	C4704	nsp	X7R)0.1UF-K/25V-1608REEL		D011104774161S	1		
	C4705	nsp	X7R)1000PF-K/50V-1608REEL		D011102777160S	1		
	OTHER PARTS GROUP							
	BKT4000	nsp	MET37-0002/TAPIG EARTH FITTING		3790040886000S	1		
	BKT4005	nsp	AVR133(HARMAN) BURRING HOLE SPTE 0.8t/SCREW		4010210196100S	1		
	CLP4000-4003	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	4		
	CLP4005-4009	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	5		
	CN4000	nsp	230MM/5P YMH025-05=CKM2509HV-05 RD1569#22 105C		L000231050090S	1	*	
	CN4003	nsp	250MM/3P YMH025-03=CKM2509HV-03 WH1007#22		L000251030190S	1	*	
	CN4005	nsp	220MM/8P YMH025-08=CKM2509HV-08 RD1569#22 105C		L000221080090S	1	*	
	CN4602	nsp	C125Z2-13 13P BtoB SOCKET(FEMALE) P=1.25MM		L109012521330S	1	*	
	CN4604	nsp	C125Z2-17 17P BtoB SOCKET(FEMALE) P=1.25MM		L109012521730S	1	*	
	CN4605	nsp	C125Z2-23 23P BtoB SOCKET(FEMALE) P=1.25MM		L109012522330S	1	*	
	CN4606	nsp	C125Z2-11 11P BtoB SOCKET(FEMALE) P=1.25MM		L109012521130S	1	*	
	CP4000	nsp	20010WS-13A00 DIP13P STRAIGHT		L101200101310S	1		
	CP4001	nsp	LWB1143-07P 7.92MM HEADER,VER,7CKT		L108011430710S	1	*	
	CP4002	nsp	20010WS-05A00 DIP5P STRAIGHT		L101200100510S	1		
	CP4603	nsp	C125Z1-23 23P BtoB HEADER(MALE) P=1.25MM		L109012512320S	1		
	CP4604	nsp	C125Z1-15 15P BtoB HEADER(MALE) P=1.25MM		L109012511520S	1		
	CP4605	nsp	C125Z1-07 7P BtoB HEADER(MALE) P=1.25MM		L109012510720S	1		
	CP4606	nsp	C125Z1-23 23P BtoB HEADER(MALE) P=1.25MM		L109012512320S	1		
	CP4617	nsp	20010WR-11A00 DIP11P RIGHT ANGLE		L101200101120S	1		
!	F4000	963652010520S	T6.3A/250V-IVBSUCPCcUR S506		N751506301160S	1		
	F4000A	nsp	PI5.2-REEL		G645000050010S	1		
	F4000B	nsp	PI5.2-REEL		G645000050010S	1		
!	F4001	963652010520S	T6.3A/250V-IVBSUCPCcUR S506		N751506301160S	1		
	F4001A	nsp	PI5.2-REEL		G645000050010S	1		
	F4001B	nsp	PI5.2-REEL		G645000050010S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	JACK4000	9636461005305	JB-601AW-02(3RD/3BK 투명)		G613602AW020YS	1		
	JACK4001	9636431019605	JB-801AW-02(4RD/4BK 투명)		G614801AW020YS	1		
	JACK4602	00D9630244703	EARPHONE JACK PJ-308-02		G40130802000YS	1		
	L4000-4006	nsp	SP-2507 1.0 PI*2UEW TURNS=7T SPRING COIL		D330900001330S	7		
	N4600	nsp	1.0-11S-4PW 4P AN DIP TOP CONTACT		L130100110450S	1	*	
	RLY4000-4003	9636821002805	JZC-42F/012-2HST 24.4*12.8*24.8mm		G680060103010S	4		
	RLY4004	00D9630218409	BC3-12 24V 2A 2회로 2접점(SMALL SIGNAL)		G680240202030S	1		
	RLY4005	9636821005105	HF115F/012-2ZS4B		G680060083010S	1	*	

FRONT PCB ASS'Y

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

※The parts listed b NOTE:The symbols in the column Remarks indicate the following destinations.

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

B : Black model SG : Silver gold model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D4400,4401	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	2		
	D4409,4410	963209003510S	CDS3C05HDMI1 CERADIODE ESD FOR HDMI 1608REEL		K067030500010S	2		
	D4411	963209500020S	CDS3C15GTA 1608REEL CERADIODE ESD B72500D0150A060		K067031500010S	1		
	D4412-4415	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	4		
	Q4400	00D9630226705	KTC1027Y,1W/TO92L-REEL		J5021027Y0020S	1		
	Q4401	9432155000020S	RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	1		
	Q4402	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1		
	Q4403	9432145000020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1		
	Q4404	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1		
	Q4405	9432145000020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1		
	Q4406	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1		
	Q4407	9432165000050S	RT1N441C 0.2W/SC-59 ISAHAYA		J522104411210S	1		
	Q4408	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1		
	ZD4400	963202500330D	ZJ6.8B-0.5W/5MA-52MM SEMTECH		K06006R844522S	1		
	ZD4401	963202500350D	ZJ22B-0.5W/5MA-52MM SEMTECH		K06022R044522S	1		
	ZD4402	963202500340D	ZJ15B-0.5W/5MA-52MM SEMTECH		K06015R044522S	1		
	ZD4404-4406	963202500310D	ZJ5.1B-0.5W/5MA-52MM SEMTECH		K06005R144522S	3		
	RESISTOR GROUP							
	R4400,4401	nsp	100-J,1/16W-1608REEL		C20001016M160S	2		
	R4402	00D9639006272	RSD-R1-1WJ-4.7 3*9 P=5MM SMALL R.REEL		N113135647920S	1		
	R4403	nsp	0-J,1/16W-1608REEL	U	C20000006M160S	1		
	R4403	nsp	1.2-J,1/16W-1608REEL	N/F	C2001R200M160S	1		
	R4405-4408	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	4		
	R4410	nsp	0-J,1/16W-1608REEL	U	C20000006M160S	1		
	R4410	nsp	1.2-J,1/16W-1608REEL	N/F	C2001R200M160S	1		
	R4411-4414	nsp	100-J,1/16W-1608REEL		C20001016M160S	4		
	R4415,4416	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	2		
	R4418,4419	nsp	100-J,1/16W-1608REEL		C20001016M160S	2		
	R4420	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1		
	R4421-4423	nsp	100-J,1/16W-1608REEL		C20001016M160S	3		
	R4424	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1		
	R4425	nsp	39K-J,1/16W-1608REEL		C20003936M160S	1		
	R4426,4427	nsp	150-J,1/16W-1608REEL		C20001516M160S	2		
	R4428	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4429	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1		
	R4430	nsp	220-J,1/5W-52RE-AX		C00002216P520S	1		
	R4431	nsp	39K-J,1/16W-1608REEL		C20003936M160S	1		
	R4433	nsp	390-J,1/16W-1608REEL		C20003916M160S	1		
	R4434	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4435-4437	nsp	100-J,1/16W-1608REEL		C20001016M160S	3		
	R4439	nsp	300-J,1/16W-1608REEL		C20003016M160S	1		
	R4441	nsp	39K-J,1/16W-1608REEL		C20003936M160S	1		
	R4442,4443	nsp	10-J,1/16W-1608REEL		C20001006M160S	2		
	R4444	nsp	0-J,1/16W-1608REEL		C20000006M160S	1		
	R4445	nsp	47K-J,1/16W-1608REEL		C20004736M160S	1		
	R4446	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4447	nsp	18K-J,1/16W-1608REEL		C20001836M160S	1		
	R4449	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R4450	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	1		
	R4451	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4452	nsp	2.2K-J,1/16W-1608REEL		C20002226M160S	1		
	R4453	nsp	560-J,1/16W-1608REEL		C20005616M160S	1		
	R4454	nsp	2.2K-J,1/16W-1608REEL		C20002226M160S	1		
	R4455	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1		
	R4456	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4459	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1		
	R4460	nsp	0-J,1/16W-1608REEL		C20000006M160S	1		
	CAPACIITORS GROUP							
	C4400,4401	00MOA10601620	10UF-M/16V,3*5-5RE SY		D040100083050S	2		
	C4402,4403	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	2		
	C4404	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C4405,4406	nsp	ST-0.1UF-J/100V-5RE PEFAM104J100 PEF TYPE		D02010406C060S	2		
	C4407	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C4408	963134012120S	100UF-M/63V,8*11.5 SHL SY		D040101088050S	1		
	C4409	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4411	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	1		
	C4412-4415	nsp	COG470PF-J/50V-1608REEL		D010471167160S	4		
	C4416,4417	nsp	X7R0.01UF-K/50V-1608REEL		D011103777160S	2		
	C4418	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	1		
	C4419	00D9630293709	100UF-M/10V,5*11-5RE.SMS SY		D040101082070S	1		
	C4420-4422	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	3		
	C4424	nsp	X7R0.01UF-K/50V-1608REEL		D011103777160S	1		
	C4425-4427	nsp	COG100PF-J/50V-1608REEL		D010101167160S	3		
	C4428	nsp	Y5V1UF-Z/50V-1608REEL		D011105597160S	1		
	C4430-4435	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	6		
	C4437	nsp	COG82PF-J/50V-1608REEL		D010820167160S	1		
	C4438	00D2544302974	100UF-M/10V,6.3*5-5RE SY (Pb Free) SY		D040101082130S	1		
	C4439	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C4441	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4442	nsp	220UF-M/6.3V,8*5-5RE SRE SY		D040221081070S	1		
	C4443,4444	nsp	COG 0.001UF-J/50V-1608REEL		D010102167160S	2		
	C4446	00MOA10601620	10UF-M/16V,3*5-5RE SY		D040100083050S	1		
	C4448	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4449	nsp	1UF-M/50V,3*5-5RE SY (Pb Free)		D040010087090S	1		
	C4451,4452	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	2		
	C4453,4454	nsp	X7R0.01UF-K/50V-1608REEL		D011103777160S	2		
	OTHER PARTS GROUP							
	BD4400,4401	nsp	0-J,1/16W-1608REEL		C20000006M160S	2		
	BD4402	nsp	CB05YTYH221-2012REEL		D340201292210S	1	*	
	CN4400	nsp	300MM/8P 20010HS-08=CKM2002HR-08 WH1007#26		L002301082630S	1		
	CN4401	nsp	390MM/5P 20010TS=CKM2002HV-05 RD2725#24/28 SH 105C		L002391050160S	1	*	
	CP4400	nsp	1.0-11S-40PW 40P AN DIP TOP CONTACT		L130100114050S	1		
	CP4401	nsp	YMAW025-07R DIP RA		L102025070010S	1	*	
	CP4402	963643101610D	USB A F 180 DIP L=15.0		G480040000180S	1		
	CP4403	nsp	20010WS-08A00 DIP8P STRAIGHT		L101200100810S	1		
!	F4400	963652500020S	6125FF500-R 500mA FAST-ACTING SUBMINIATURE FUSE		G657612505030S	1		
	IC4400	963232100400S	UTC4580E SOP8 DUAL OP AMP		J121458001010S	1		
	J4455-4457	nsp	0-J,1/8W-3216REEL		C200000061300S	3		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	JACK4400	963643006910M	MINIJACK(PJ-3234A-4)SILVER RINNG		G401PJ323A40YS	1		
	JACK4401	963643101120S	PHONE (YUQIU) D6.5 9P SILVER PJ-612A-9		G402PJ612A09YS	1		
	LED4400	9632631009905	BL-BUF4V5K-1-HS-NP-AV-FP3.5-TBF19.5C 3PI RED		K500032001260S	1	*	
	LED4401	963209006790M	BZ-BB43V4V-2-FP5-TBF22A 5PI BLUE P=5MM		K500056000130S	1		
	LED4402	963263100510S	WEJ3290W-R2H0-BA 3PI RED/YELLOW GREEN BI-COLOR		K500032451010S	1		
	PLT4400	nsp	NR1504U1B(MARANTZ) SPTE t0.3/FRONT HP		4470212826000S	1	*	
	RMC4400	963262012130S	R34ES9A 36KHZ IR REMOCON MODULE P=2.54MM		E940349003610S	1		
	SW4400-4408	00D9630045708	SKHV10920A,5MM/260G-REEL		G180000270010S	9		
	U4400	943172100150S	018BT021GINK 129*25*6.1 GREEN /AVR1913		K530180210010S	1		
	VEC4400	963667100170D	EC16B12SAAD4ZZZ		G121161200070S	1		
	VEC4401	963667012360S	EC16B24T01D4ZZZ 24PLUSE 360' L=25MM		G121162400060S	1		

AUDIO_VIDEO PCB ASS'Y

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

※The parts listed b NOTE:The symbols in the column Remarks indicate the following destinations.

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

B : Black model SG : Silver gold model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D5221-5223	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	3		
	D5229	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1		
	IC5200	9632390006505	R2A15218FP-U00R 8CH-VOL WITH 11 INPUT QFP100P		J084152180010S	1		
	IC5201	963232100400S	UTC4580E SOP8 DUAL OP AMP		J121458001010S	1		
	IC5202	00D2631193902	BD3812F-E2 2CH-VOL SOP14P		J084381200010S	1		
	IC5401	963235100700S	NJM2595M-TE1 DMP16 5-INPUT 3-OUTPUT VIDEO SWITCH		J171259500010S	1	*	
	IC5402	963235100630S	NJM2586AVC3 VIDEO SWITCH SSOP20-C3		J171258600020S	1		
	Q5202	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1		
	Q5205	943214500030S	INC2001AC1 0.2W/SC-59 ISAHAYA		J522020011210S	1		
	Q5206,5207	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	2		
	Q5209	943214500030S	INC2001AC1 0.2W/SC-59 ISAHAYA		J522020011210S	1		
	Q5210	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1		
	Q5212	943214500030S	INC2001AC1 0.2W/SC-59 ISAHAYA		J522020011210S	1		
	Q5214	943214500030S	INC2001AC1 0.2W/SC-59 ISAHAYA		J522020011210S	1		
	Q5215,5216	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	2		
	Q5218	943214500030S	INC2001AC1 0.2W/SC-59 ISAHAYA		J522020011210S	1		
	Q5219	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1		
	Q5220	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	1		
	Q5221	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1		
	Q5222,5223	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	2		
	Q5224	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1		
	U5500-5503	963232100390S	NJM8080G SOP8 DUAL OP AMP		J121808000010S	4		
	ZD5200	963202500290D	ZJ3.6B-0.5W/5MA-52MM SEMTECH		K06003R644522S	1		
	RESISTOR GROUP							
	R5200	nsp	470-J,1/16W-1608REEL		C20004716M160S	1		
	R5203,5204	nsp	100K-J,1/16W-1608REEL		C20001046M160S	2		
	R5205-5212	nsp	10K-J,1/16W-1608REEL		C20001036M160S	8		
	R5213-5218	nsp	470-J,1/16W-1608REEL		C20004716M160S	6		
	R5220	nsp	470-J,1/16W-1608REEL		C20004716M160S	1		
	R5221	nsp	820K-J,1/16W-1608REEL		C20008246M160S	1		
	R5225	nsp	820K-J,1/16W-1608REEL		C20008246M160S	1		
	R5227	nsp	470-J,1/16W-1608REEL		C20004716M160S	1		
	R5228,5229	nsp	470K-J,1/16W-1608REEL		C20004746M160S	2		
	R5232	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R5233	nsp	470-J,1/16W-1608REEL		C20004716M160S	1		
	R5234	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R5235	nsp	820K-J,1/16W-1608REEL		C20008246M160S	1		
	R5247	nsp	820K-J,1/16W-1608REEL		C20008246M160S	1		
	R5248	nsp	470-J,1/16W-1608REEL		C20004716M160S	1		
	R5250	nsp	470-J,1/16W-1608REEL		C20004716M160S	1		
	R5251	nsp	820K-J,1/16W-1608REEL		C20008246M160S	1		
	R5253	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R5255	nsp	470K-J,1/16W-1608REEL		C20004746M160S	1		
	R5257,5258	nsp	470K-J,1/16W-1608REEL		C20004746M160S	2		
	R5259	nsp	820K-J,1/16W-1608REEL		C20008246M160S	1		
	R5260	nsp	470-J,1/16W-1608REEL		C20004716M160S	1		
	R5261,5262	nsp	470K-J,1/16W-1608REEL		C20004746M160S	2		
	R5263	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R5264	nsp	470K-J,1/16W-1608REEL		C20004746M160S	1		
	R5266	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5267,5268	nsp	470K-J,1/16W-1608REEL		C20004746M160S	2		
	R5269,5270	nsp	470-J,1/16W-1608REEL		C20004716M160S	2		
	R5271	nsp	220-J,1/16W-1608REEL		C20002216M160S	1		
	R5272,5273	nsp	100K-J,1/16W-1608REEL		C20001046M160S	2		
	R5274	nsp	470K-J,1/16W-1608REEL		C20004746M160S	1		
	R5276	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R5277-5288	nsp	470K-J,1/16W-1608REEL		C20004746M160S	12		
	R5289	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1		
	R5290,5291	nsp	470K-J,1/16W-1608REEL		C20004746M160S	2		
	R5292,5293	nsp	100K-J,1/16W-1608REEL		C20001046M160S	2		
	R5295,5296	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	R5297,5298	nsp	470-J,1/16W-1608REEL		C20004716M160S	2		
	R5299	nsp	220-J,1/16W-1608REEL		C20002216M160S	1		
	R5300	nsp	47-J,1/16W-1608REEL		C20004706M160S	1		
	R5301,5302	nsp	470-J,1/16W-1608REEL		C20004716M160S	2		
	R5303	nsp	220-J,1/16W-1608REEL		C20002216M160S	1		
	R5304	nsp	47K-J,1/16W-1608REEL		C20004736M160S	1		
	R5305,5306	nsp	100K-J,1/16W-1608REEL		C20001046M160S	2		
	R5308	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R5309	nsp	470K-J,1/16W-1608REEL		C20004746M160S	1		
	R5310	nsp	47K-J,1/16W-1608REEL		C20004736M160S	1		
	R5311	nsp	47-J,1/16W-1608REEL		C20004706M160S	1		
	R5312,5313	nsp	470-J,1/16W-1608REEL		C20004716M160S	2		
	R5314	nsp	220-J,1/16W-1608REEL		C20002216M160S	1		
	R5317	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R5319	nsp	470K-J,1/16W-1608REEL		C20004746M160S	1		
	R5320,5321	nsp	100K-J,1/16W-1608REEL		C20001046M160S	2		
	R5322	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1		
	R5323	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1		
	R5324,5325	nsp	470K-J,1/16W-1608REEL		C20004746M160S	2		
	R5326	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1		
	R5328	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R5329-5331	nsp	100K-J,1/16W-1608REEL		C20001046M160S	3		
	R5332	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R5333,5334	nsp	470-J,1/16W-1608REEL		C20004716M160S	2		
	R5335	nsp	220-J,1/16W-1608REEL		C20002216M160S	1		
	R5336	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1		
	R5337,5338	nsp	1K-J,1/16W-1608REEL		C20001026M160S	2		
	R5340,5341	nsp	100-J,1/16W-1608REEL		C20001016M160S	2		
	R5342	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R5343	nsp	2.2K-J,1/16W-1608REEL		C20002226M160S	1		
	R5344	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R5345	nsp	2.2K-J,1/16W-1608REEL		C20002226M160S	1		
	R5346,5347	nsp	470K-J,1/16W-1608REEL		C20004746M160S	2		
	R5348,5349	nsp	100-J,1/16W-1608REEL		C20001016M160S	2		
	R5352	nsp	33K-J,1/16W-1608REEL		C20003336M160S	1		
	R5353	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	1		
	R5354	nsp	18K-J,1/16W-1608REEL		C20001836M160S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R5355	nsp	47-J,1/16W-1608REEL		C20004706M160S	1		
	R5408	nsp	75-J,1/16W-1608REEL		C20007506M160S	1		
	R5411-5413	nsp	75-J,1/16W-1608REEL		C20007506M160S	3		
	R5414,5415	nsp	150-J,1/16W-1608REEL		C20001516M160S	2		
	R5416,5417	nsp	160-J,1/16W-1608REEL		C20001616M160S	2		
	R5418,5419	nsp	150-J,1/16W-1608REEL		C20001516M160S	2		
	R5420,5421	nsp	160-J,1/16W-1608REEL		C20001616M160S	2		
	R5422,5423	nsp	150-J,1/16W-1608REEL		C20001516M160S	2		
	R5424,5425	nsp	160-J,1/16W-1608REEL		C20001616M160S	2		
	R5429	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R5430-5432	nsp	75-J,1/16W-1608REEL		C20007506M160S	3		
	R5436-5438	nsp	75-J,1/16W-1608REEL		C20007506M160S	3		
	R5439	nsp	82-J,1/16W-1608REEL		C20008206M160S	1		
	R5440	nsp	75-J,1/16W-1608REEL		C20007506M160S	1		
	R5441	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R5442	nsp	1.8K-J,1/16W-1608REEL		C20001826M160S	1		
	R5500	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R5501	nsp	0-J,1/16W-1608REEL		C20000006M160S	1		
	R5502	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1		
	R5503	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R5504	nsp	82K-J,1/16W-1608REEL		C20008236M160S	1		
	R5506	nsp	82K-J,1/16W-1608REEL		C20008236M160S	1		
	R5507	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R5510	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5511,5512	nsp	1K-J,1/16W-1608REEL		C20001026M160S	2		
	R5513	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R5515	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R5516	nsp	0-J,1/16W-1608REEL		C20000006M160S	1		
	R5519	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R5521,5522	nsp	820-J,1/16W-1608REEL		C20008216M160S	2		
	R5524	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R5525	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5527	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5528	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R5529	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R5530	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5531	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R5532	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R5533	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5534	nsp	24K-J,1/16W-1608REEL		C20002436M160S	1		
	R5535	nsp	300K-J,1/16W-1608REEL		C20003046M160S	1		
	R5536	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R5537	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5539,5540	nsp	100-J,1/16W-1608REEL		C20001016M160S	2		
	R5542	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R5543	nsp	16K-J,1/16W-1608REEL		C20001636M160S	1		
	R5545	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R5546,5547	nsp	15K-J,1/16W-1608REEL		C20001536M160S	2		
	R5548	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5549	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R5550	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R5551	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5552	nsp	16K-J,1/16W-1608REEL		C20001636M160S	1		
	R5554	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R5555	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5556	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R5557	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R5558	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5560	nsp	300K-J,1/16W-1608REEL		C20003046M160S	1		
	R5561	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R5564	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5565	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R5566	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5567	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R5568	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R5569	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5570	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R5572	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R5573	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R5574	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R5575	nsp	16K-J,1/16W-1608REEL		C20001636M160S	1		
	R5576-5578	nsp	11K-J,1/16W-1608REEL		C20001136M160S	3		
	R5579	nsp	16K-J,1/16W-1608REEL		C20001636M160S	1		
	R5580	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R5581	nsp	24K-J,1/16W-1608REEL		C20002436M160S	1		
	CAPACIITORS GROUP							
	C5200-5209	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	10		
	C5210	00D9630333203	100UF-M/16V,5*11-5RE,SHL SY		D040101083090S	1		
	C5212	nsp	COG330PF-J/50V-1608REEL		D010331167160S	1		
	C5213	00D9630333203	100UF-M/16V,5*11-5RE,SHL SY		D040101083090S	1		
	C5214	nsp	X7R)0.01UF-K/50V-1608REEL		D010103777160S	1		
	C5215	nsp	COG330PF-J/50V-1608REEL		D010331167160S	1		
	C5217	nsp	X7R)0.01UF-K/50V-1608REEL		D010103777160S	1		
	C5219	nsp	COG330PF-J/50V-1608REEL		D010331167160S	1		
	C5220	963134502430S	47UF-M/63V,6.3*11-5RE RA3-63V470MF3#8P-T2		D040470088210S	1		
	C5221	nsp	COG330PF-J/50V-1608REEL		D010331167160S	1		
	C5224,5225	963134502430S	47UF-M/63V,6.3*11-5RE RA3-63V470MF3#8P-T2		D040470088210S	2		
	C5228	nsp	COG330PF-J/50V-1608REEL		D010331167160S	1		
	C5229,5230	963134502370S	47UF-M/16V,5*11-5RE.SMS SY		D040470083080S	2		
	C5233	nsp	COG330PF-J/50V-1608REEL		D010331167160S	1		
	C5236	963134502370S	47UF-M/16V,5*11-5RE.SMS SY		D040470083080S	1		
	C5237	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C5238,5239	963134502370S	47UF-M/16V,5*11-5RE.SMS SY		D040470083080S	2		
	C5240,5241	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	2		
	C5242,5243	nsp	COG330PF-J/50V-1608REEL		D010331167160S	2		
	C5244	nsp	X7R)0.01UF-K/50V-1608REEL		D010103777160S	1		
	C5245	00D9630244606	0.1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040R10087080S	1		
	C5246,5247	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	2		
	C5248	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C5249,5250	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	2		
	C5251	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C5252	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C5254	nsp	X7R)0.01UF-K/50V-1608REEL		D010103777160S	1		
	C5255	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C5257	00D9630223902	COG39PF-J/50V-1608REEL		D010390167160S	1		
	C5258,5259	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C5260,5261	nsp	COG330PF-J/50V-1608REEL		D010331167160S	2		
	C5262,5263	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2		
	C5264	00D9630244606	0.1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040R100087080S	1		
	C5265,5266	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2		
	C5267,5268	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	2		
	C5269,5270	nsp	X7R)0.01UF-K/50V-1608REEL		D010103777160S	2		
	C5271-5273	nsp	COG100PF-J/50V-1608REEL		D010101167160S	3		
	C5274	nsp	X7R)0.01UF-K/50V-1608REEL		D010103777160S	1		
	C5275	00D9630223902	COG39PF-J/50V-1608REEL		D010390167160S	1		
	C5276	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C5277,5278	nsp	X7R)0.01UF-K/50V-1608REEL		D010103777160S	2		
	C5280	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C5281,5282	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	2		
	C5407	00D9630293709	100UF-M/10V,5*11-5RE.SMS SY		D040101082070S	1		
	C5408-5411	nsp	COG68PF-J/50V-1608REEL		D010680167160S	4		
	C5412,5413	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	2		
	C5414,5415	nsp	COG68PF-J/50V-1608REEL		D010680167160S	2		
	C5416	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	1		
	C5417	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C5418	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	1		
	C5419	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C5420	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	1		
	C5421	00D9630293709	100UF-M/10V,5*11-5RE.SMS SY		D040101082070S	1		
	C5422-5424	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	3		
	C5425-5428	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	4		
	C5429,5430	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	2		
	C5431	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C5502	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	1		
	C5505	00D2570505910	CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1		
	C5511,5512	nsp	COG100PF-J/50V-1608REEL		D010101167160S	2		
	C5513	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C5514,5515	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	2		
	C5516-5518	00D2570505910	CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	3		
	C5519	00D2570507947	CH)240PF-J/50V-1608REEL GRM1882C1H241JA01D		D010241167165S	1		
	C5520	00D2570505910	CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1		
	C5521	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	1		
	C5522	00D2570505910	CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1		
	C5523	00D2570507947	CH)240PF-J/50V-1608REEL GRM1882C1H241JA01D		D010241167165S	1		
	C5524	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	1		
	C5525	00D2570507947	CH)240PF-J/50V-1608REEL GRM1882C1H241JA01D		D010241167165S	1		
	C5526	00D2570505910	CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1		
	C5527	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	1		
	C5528	00D2570505910	CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1		
	C5529-5533	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	5		
	C5534,5535	00D9630333203	100UF-M/16V,5*11-5RE,SHL SY		D040101083090S	2		
	C5536	00D2570507947	CH)240PF-J/50V-1608REEL GRM1882C1H241JA01D		D010241167165S	1		
	C5537	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	1		
	OTHER PARTS GROUP							
	BD5500	nsp	CB03YTYN121-1608REEL		D340160891210S	1	*	
	CN4801	nsp	290MM/13P 20010HS-13=CKM2002HV-13 WH1007#26		L002291132620S	1		
	CN5200	nsp	C125Z2-11 11P BtoB SOCKET(FEMALE) P=1.25MM		L109012521130S	1	*	
	CN5201	nsp	50MM/13P 20010HS-13=CKM2002HV-13 WH1007#26		L002500132620S	1		
	CN5202	nsp	50MM/5P 20010HS-05=CKM2002HV-05 WH1007#26		L002500052620S	1	*	
	CN5402	nsp	C125Z2-21 21P BtoB SOCKET(FEMALE) P=1.25MM		L109012522130S	1	*	
	CP5200	nsp	C125Z1-17 17P BtoB HEADER(MALE) P=1.25MM		L109012511720S	1		
	CP5201	nsp	C125Z1-13 13P BtoB HEADER(MALE) P=1.25MM		L109012511320S	1		
	CP5202	nsp	C125Z1-11 11P BtoB HEADER(MALE) P=1.25MM		L109012511120S	1		
	CP5203	nsp	C125Z1-23 23P BtoB HEADER(MALE) P=1.25MM		L109012512320S	1		
	PACK5500	963189100860D	KST-MW004MV1-S63SV-1 4GANG+MW+50US NA	U	E903004103630S	1	*	
	PACK5500	963189100870D	KST-MW104MV1-S63G FM/AM/RDS EU	N	E903104102630S	1	*	
	PACK5500	963189100850D	KST-MW004MV1-S63-1 FM/AM NA	F	E903004101630S	1	*	
	JK5200_6	963643010330S	RCA-615A-07(W/R/W/R/W/R)		G603615A0700YS	1		
	JK5201_2	90M-YT004540R	RCA-207AE-07(OR,OR)		G601207AE070YS	1		
	JK5203_3	963643102950S	RC012-F03L3BY-A(BK/WH/RD)NI		G606RC012F03YS	1	*	
	JK5204_2	90M-YT004640R	RCA-207AE-02 NI(WH,RD)		G601207AE020YS	1		
	JK5400_3	963643010350S	RCA-305B-14(Y/Y/Y)		G606305B1400YS	1		
	JK5401_1	963643005090S	RCA-107AY(YL)		G600107AY000YS	1		
	JK5402_3	963643010340S	RCA-305B-02(G/B/R)		G606305B0200YS	1		
	JK5403_3	963643010340S	RCA-305B-02(G/B/R)		G606305B0200YS	1		
	JK5404_3	963643010340S	RCA-305B-02(G/B/R)		G606305B0200YS	1		

REG_SMPS_FCNT PCB ASS'Y

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

※The parts listed b NOTE:The symbols in the column Remarks indicate the following destinations.

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

B : Black model SG : Silver gold model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D4140-4146	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	7		
	D4147	963201500160D	1N4007 52REEL 1000V 1A	U/F	K000400700220S	1		
!	D4147	2030500019501S	AP01C-V1 52RE-AX FAST RECOVERY RECTIFIER DIODES	N	K050000015000S	1		
	D4148	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	1		
	D4149	963204500210D	S30SC6MT 60V 30A TO-3P(MTO-3PT) SHINDENGEN		K120300600010S	1		
	D4150	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	1		
	D4600	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	1		
	D4602,4603	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	2		
	D4604-4607	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	4		
	D4612-4627	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	16		
	D4629-4632	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	4		
!	IC4140	2310100091708S	TOP258MG SDIP10 OFF-LINE POWER SUPPLY IC		J122258001010S	1		
!	IC4142	00D2623047008	PC123X2YFZ (DIP4P SHARP)		K614123000010S	1		
	IC4143	212050010508S	KIA2431AP,0.7W TO-92		J126243118010S	1		
	IC4600	00D2631100005	KIA7805API,20W-TO220IS MOLD		J126780500110S	1		
	IC4602	00D2631099006	KIA7905PI,20W-TO220IS MOLD		J126790500070S	1		
	IC4603	00D2631251006	KIA7908PI,20W-TO220IS		J126790800060S	1		
	IC4604	00D2631100005	KIA7805API,20W-TO220IS MOLD		J126780500110S	1		
	IC4605	00D2631100050	KIA7808API,20W-TO220IS		J126780800050S	1		
	IC4608	00D9600100301	KIA7812API,20W-TO220IS MOLD		J126781200040S	1		
	TR4140	963222500150D	KMB2D0N60SA N-CH MOSFET 60V SOT23		J543206005510S	1		
	TR4142	963213500170D	KTC3198G,0.6W/TO92-REEL		J5023198G0000S	1		
	ZD4147-4149	963202500370D	ZJ39B-0.5W/5MA-52MM SEMTECH	U/F	K06039R044522S	3		
	ZD4150-4157	963202500350D	ZJ22B-0.5W/5MA-52MM SEMTECH		K06022R044522S	8		
	ZD4158	963202500370D	ZJ39B-0.5W/5MA-52MM SEMTECH		K06039R044522S	1		
	ZD4159	963202500320D	ZJ5.6B-0.5W/5MA-52MM SEMTECH		K06005R644522S	1		
	ZD4160	963202500320D	ZJ5.6B-0.5W/5MA-52MM SEMTECH	U	K06005R644522S	1		
	ZD4160	963202500340D	ZJ5.6B-0.5W/5MA-52MM SEMTECH	N	K06015R044522S	1		
	ZD4160	963202500310D	ZJ5.6B-0.5W/5MA-52MM SEMTECH	F	K06005R144522S	1		
	RESISTOR GROUP							
	R4141,4142	nsp	1M-J,1/5W-52RE-AX		C00001056P520S	2		
	R4143	nsp	330K-J,1/5W-52RE-AX		C00003346P520S	1		
	R4145	nsp	1M-J,1/16W-1608REEL		C20001056M160S	1		
	R4147	nsp	270K-J,1/16W-1608REEL	U/F	C20002746M160S	1		
	R4147	nsp	56K-J,1/16W-1608REEL	N	C20005636M160S	1		
	R4148,4149	nsp	2.2M-J,1/5W-52RE-AX	U/F	C00002256P520S	2		
	R4150	nsp	1M-J,1/5W-52RE-AX	U/F	C00001056P520S	1		
	R4151	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R4152	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1		
	R4153	nsp	6.8-J,1/5W-52RE-AX		C0006R806P520S	1		
	R4154	nsp	10-J,1/16W-1608REEL		C20001006M160S	1		
	R4155	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4156	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	1		
	R4157	nsp	56-J,1/5W-52RE-AX		C00005606P520S	1		
	R4158	nsp	3.3K-J,1/5W-52RE-AX		C00003326P520S	1		
	R4159	nsp	5.6K-J,1/5W-52RE-AX		C00005626P520S	1		
	R4160	nsp	22K-F,1/16W-1608REEL		C20002234M161S	1		
	R4161	00D2472041967	6.8K-D,1/16W-1608REEL		C20006821M160S	1		
	R4164	nsp	1M-J,1/5W-52RE-AX		C00001056P520S	1		
	CAPACIITORS GROUP							
!	C4140,4141	963134011730S	DE1B3KX471KB4BL01 AC250V BULK MURATA		D00847127H010S	2		
!	C4142	963132011940S	DE2F3KY103MB3BM02 AC250V BULK MURATA		D008103589010S	1		
!	C4143	nsp	0.1UF-K/275V BULK X2 MPX104K3ID2 P=15MM CARLI		D02110407H010S	1		
	C4145-4147	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	3		
!	C4148,4149	963132011940S	DE2F3KY103MB3BM02 AC250V BULK MURATA	N	D008103589010S	2		
	C4151	943134501590S	100UF-M/200V,16*20 BULK NHA SY	U/F	D04110108G000S	1		
	C4151	963134010200S	100UF-M/400V,18*31.5 BULK NHA SY	N	D04110108K000S	1		
	C4152	963134010210S	47UF-M/25V,5*11-5RE NXA SY		D041470084050S	1		
	C4153	963132010120S	DEHR33A102KB2B		D00810207Q010S	1		
	C4154	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4155	963134010190S	10UF-M/50V,5*11-5RE NXA SY		D041100087050S	1		
!	C4156	963132011930S	DE1E3KX222MB4BL01 AC250V BULK MURATA		D00822248H010S	1		
	C4159,4160	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	2		
	C4161	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C4162-4164	963134010220S	5600UF-M/6.3V,12.5*35 NXA SY		D041562081001S	3		
	C4166	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4600	963134502440S	470UF-M/50V,12.5*15 BULK MHA SY		D040471087070S	1		
	C4602	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C4604,4605	00D9630333203	100UF-M/16V,5*11-5RE,SHL SY		D040101083090S	2		
	C4606,4607	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2		
	C4608,4609	90M-OA000500R	4700UF-M/25V(MHA),16*25 P=7.5 L.BLK		D040472084240S	2		
	C4610	963134011290S	4700UF-M/16V,16*25-L.BLK SMS 5.0MC SY		D040472083020S	1		
	C4611	00D9630217002	3300UF-M/16V,12.5*25L.BLK SHL 5.0MC SY		D040332083010S	1		
	C4612,4613	963134502400S	MI-0.1UF-J/50V-5RE		D020104167050S	2		
	C4646	963134010700S	2200UF-M/25V,16*25-L.BLK SMS 5.0MC SY		D040222084030S	1		
	C4648	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	OTHER PARTS GROUP							
	BKT4141	nsp	VSX523K/CUXESM(PIONEER) BURRING HOLE SPTE 0.8t/SCR		4010215796000S	1	*	
	BKT4142	nsp	AVR3300(E3)(DENON) SPTE 0.8t/SCREW		4010210196000S	1		
	BKT4602	nsp	AVR3300(E3)(DENON) SPTE 0.8t/SCREW		4010210196000S	1		
	CLP4605-4607	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	3		
	CLP4609-4611	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	3		
	CLP4613	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	1		
	CN4141	nsp	120MM/5P TJC2508-05=CKM2509HV-05 WH1007#22		L000121050160S	1	*	
	CN4600,4601	nsp	C125Z2-09 9P BtoB SOCKET(FEMALE) P=1.25MM		L109012520930S	2	*	
	CN4607	nsp	120MM/4P 20010HS-04=CKM2002HV-04 WH1007#26 연접		L002121040110S	1		
	CN4615	nsp	120MM/11P 20010HS-11=CKM2002HV-11 WH1007#26 연접		L002121110041S	1		
!	CP4142	nsp	LWB1143-02P 7.92MM HEADER,VER,2CKT		L108011430210S	1		
	CP4600,4601	nsp	C125Z1-09 9P BtoB HEADER(MALE) P=1.25MM		L109012510920S	2		
	CP4607	nsp	YMW025-08R DIP ST		L102025080020S	1	*	
	CP4611	nsp	C125Z1-21 21P BtoB HEADER(MALE) P=1.25MM		L109012512120S	1		
	CP4612	nsp	C125Z1-11 11P BtoB HEADER(MALE) P=1.25MM		L109012511120S	1		
	CP4613	nsp	C125Z1-17 17P BtoB HEADER(MALE) P=1.25MM		L109012511720S	1		
	CP4614	nsp	C125Z1-11 11P BtoB HEADER(MALE) P=1.25MM		L109012511120S	1		
	CP4615	nsp	20010WR-04A00 DIP4P RIGHT ANGLE		L101200100420S	1		
!	F4140	963652010510S	T2A/250V-IVBSUCPCcUR S506	U/F	N751502001160S	1		
!	F4140	963132011940S	DE2F3KY103MB3BM02 AC250V BULK MURATA	N	D008103589010S	1		
	F4140_1	nsp	PI5.2-REEL		G645000050010S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	F4140_2	nsp	PI5.2-REEL		G645000050010S	1		
!	F4141	9636520105205	T6.3A/250V-IVBSUCPCcUR S506	U/F	N751506301160S	1		
!	F4141	9636520109105	T3.15A/250V-IVBSUCPCcUR S506	N	N751503151160S	1		
	F4141_1	nsp	PI5.2-REEL		G645000050010S	1		
	F4141_2	nsp	PI5.2-REEL		G645000050010S	1		
!	F4600	9636441019505	2.5A 250V SS-5 TIME DELAY RADIAL LEADED FUSE		G658252250050S	1	*	
!	F4601,4602	9636441019605	1.6A 250V SS-5 TIME DELAY RADIAL LEADED FUSE		G658162250050S	2	*	
!	F4603	9636520105005	T1.6A/250V-IVBSUCPCcUR S506		N751501601160S	1		
	F4603A	nsp	PI5.2-REEL		G645000050010S	1		
	F4603B	nsp	PI5.2-REEL		G645000050010S	1		
!	F4604	9636520105005	T1.6A/250V-IVBSUCPCcUR S506		N751501601160S	1		
	F4604A	nsp	PI5.2-REEL		G645000050010S	1		
	F4604B	nsp	PI5.2-REEL		G645000050010S	1		
	JK4140	nsp	PLUG YW396-03AV 2P		L108396030010S	1		
	JP4140,4141	nsp	JUMPER (0.6/52MM)		L045084006040S	2		
	JP4630	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
!	L4140	9631111004205	SQ2014 27mH VERTICAL TYPE LINE FILTER	U/F	D320201405510S	1		
!	L4140	9631111004705	SQ2014 50mH VERTICAL TYPE LINE FILTER	N	D320201405000S	1		
!	RLY4140	9636821002905	JZC-36FD/005-HLT 23.8*9.5*24.5mm		G680060103030S	1		
!	T4140	9631021003605	EER2834 SW TRANSFORMER GAP BONDING		E060283405530S	1		

7CH_AMP PCB ASS'Y

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

※The parts listed b NOTE:The symbols in the column Remarks indicate the following destinations.

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

B : Black model SG : Silver gold model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D4800	00D9600197000	KDS160(UF) /USC		K005016000010S	1		
	D4805	00D9600197000	KDS160(UF) /USC		K005016000010S	1		
	D4812	00D9600197000	KDS160(UF) /USC		K005016000010S	1		
	D4817	00D9600197000	KDS160(UF) /USC		K005016000010S	1		
	D4822	00D9600197000	KDS160(UF) /USC		K005016000010S	1		
	D4827	00D9600197000	KDS160(UF) /USC		K005016000010S	1		
	D4832	00D9600197000	KDS160(UF) /USC		K005016000010S	1		
	Q4800	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	1		
	Q4801	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100105	1		
	Q4803	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	1		
	Q4804	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J5222555100105	1		
	Q4806,4807	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	2		
	Q4809	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	1		
	Q4810	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	1		
	Q4811	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	1		
	Q4812	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100105	1		
	Q4814	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J5222555100105	1		
	Q4816,4817	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	2		
	Q4819	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	1		
	Q4820	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	1		
	Q4821	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100105	1		
	Q4823	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J5222555100105	1		
	Q4825,4826	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	2		
	Q4828	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	1		
	Q4829	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	1		
	Q4830	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100105	1		
	Q4832	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J5222555100105	1		
	Q4834,4835	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	2		
	Q4837	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	1		
	Q4838	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	1		
	Q4839	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100105	1		
	Q4841	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J5222555100105	1		
	Q4843,4844	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	2		
	Q4846	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	1		
	Q4847	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	1		
	Q4848	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100105	1		
	Q4850	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J5222555100105	1		
	Q4852,4853	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	2		
	Q4855	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	1		
	Q4856	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	1		
	Q4857	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100105	1		
	Q4859	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J5222555100105	1		
	Q4861,4862	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	2		
	Q4864	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	1		
	ZD4800	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1		
	ZD4803	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1		
	ZD4806	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1		
	ZD4809	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1		
	ZD4812	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1		
	ZD4815	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1		
	ZD4818	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1		
	RESISTOR GROUP							
	R4800	00D2412399912	1.8K-J,1/5W-52RE-AX		C00001826P520S	1		
	R4801	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R4802	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R4803	9631250031405	5.6K-J,1W-R.REEL		C060056265050S	1		
	R4804	963252100140D	DHPTHF1608 471P 105T SMD PTC THERMISTOR		F320471001050S	1		
	R4805	nsp	56K-J,1/16W-1608REEL		C20005636M160S	1		
	R4806	9631250031405	5.6K-J,1W-R.REEL		C060056265050S	1		
	R4807	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R4808	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
	R4809	nsp	680K-J,1/5W-52RE-AX		C00006846P520S	1		
	R4810	963121006330M	47K-J,1/5W-52RE-AX		C00004736P520S	1		
	R4811,4812	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	R4813	9631250126305	22-J,1W-5REEL		C060022065050S	1		
	R4814	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R4815	nsp	270K-J,1/16W-1608REEL		C20002746M160S	1		
	R4816,4817	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	2		
	R4818	nsp	220K-J,1/16W-1608REEL		C20002246M160S	1		
	R4819	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1		
	R4820	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4821	9631245005005	RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL		N113136622820S	1	*	
	R4823	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1		
	R4825	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R4826	nsp	1K-J,1/5W-52RE-AX		C00001026P520S	1		
	R4827	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R4829	9631245005005	RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL		N113136622820S	1	*	
	R4831	nsp	3.3K-J,1W-R.REEL		C060033265050S	1		
	R4832	nsp	220K-J,1/16W-1608REEL		C20002246M160S	1		
	R4833	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1		
	R4834	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1		
	R4835	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R4836,4837	nsp	220-J,1/5W-52RE-AX		C00002216P520S	2		
	R4838	9631250126305	22-J,1W-5REEL		C060022065050S	1		
	R4839	nsp	150-J,1/5W-52RE-AX		C00001516P520S	1		
	R4840	nsp	270-J,1/5W-52RE-AX		C00002716P520S	1		
	R4841	nsp	1.2K-J,1W-5REEL		C060012265050S	1		
	R4842	nsp	47-J,1W-R.REEL		C060047065060S	1		
	R4843	00D2412399912	1.8K-J,1/5W-52RE-AX		C00001826P520S	1		
	R4844	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R4845	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R4846	9631250031405	5.6K-J,1W-R.REEL		C060056265050S	1		
	R4847	00D9630337908	33-J,1W-R.REEL		C060033065050S	1		
	R4848	963252100140D	DHPTHF1608 471P 105T SMD PTC THERMISTOR		F320471001050S	1		
	R4849	9631250031405	5.6K-J,1W-R.REEL		C060056265050S	1		
	R4850	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R4851	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
	R4852	nsp	680K-J,1/5W-52RE-AX		C00006846P520S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R4853	00D9639005639	100-J,1W-R.REEL		C060010165060S	1		
	R4854	963121006330M	47K-J,1/5W-52RE-AX		C00004736P520S	1		
	R4855,4856	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	R4857	9631250126305	22-J,1W-5REEL		C060022065050S	1		
	R4858	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R4859	nsp	270K-J,1/16W-1608REEL		C20002746M160S	1		
	R4860	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R4861	nsp	220K-J,1/16W-1608REEL		C20002246M160S	1		
	R4862	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1		
	R4863	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4864	9631245005005	RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL		N113136622820S	1	*	
	R4866	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1		
	R4870	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R4871	nsp	1K-J,1/5W-52RE-AX		C00001026P520S	1		
	R4872	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R4874	252310006544S	PTC PRF18BF471QB5RB SMD1608 75T		F320184710060S	1	*	
	R4876	9631245005005	RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL		N113136622820S	1	*	
	R4878	nsp	3.3K-J,1W-R.REEL		C060033265050S	1		
	R4879	nsp	220K-J,1/16W-1608REEL		C20002246M160S	1		
	R4880	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1		
	R4881	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1		
	R4882	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R4883,4884	nsp	220-J,1/5W-52RE-AX		C00002216P520S	2		
	R4885	9631250126305	22-J,1W-5REEL		C060022065050S	1		
	R4886	nsp	150-J,1/5W-52RE-AX		C00001516P520S	1		
	R4887	nsp	270-J,1/5W-52RE-AX		C00002716P520S	1		
	R4888	nsp	1.2K-J,1W-5REEL		C060012265050S	1		
	R4889	nsp	47-J,1W-R.REEL		C060047065060S	1		
	R4890	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R4891,4892	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	R4893	00D2412399912	1.8K-J,1/5W-52RE-AX		C00001826P520S	1		
	R4894	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R4895	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R4896	9631250031405	5.6K-J,1W-R.REEL		C060056265050S	1		
	R4897	963252100140D	DHPTHF1608 471P 105T SMD PTC THERMISTOR		F320471001050S	1		
	R4898	9631250031405	5.6K-J,1W-R.REEL		C060056265050S	1		
	R4899	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R4900	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
	R4901	nsp	680K-J,1/5W-52RE-AX		C00006846P520S	1		
	R4902	963121006330M	47K-J,1/5W-52RE-AX		C00004736P520S	1		
	R4903,4904	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	R4905	9631250126305	22-J,1W-5REEL		C060022065050S	1		
	R4906	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R4907	nsp	270K-J,1/16W-1608REEL		C20002746M160S	1		
	R4908	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R4909	nsp	220K-J,1/16W-1608REEL		C20002246M160S	1		
	R4910	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1		
	R4911	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4912	9631245005005	RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL		N113136622820S	1	*	
	R4914	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1		
	R4916	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R4917	nsp	1K-J,1/5W-52RE-AX		C00001026P520S	1		
	R4918	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R4920	9631245005005	RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL		N113136622820S	1	*	
	R4922	nsp	3.3K-J,1W-R.REEL		C060033265050S	1		
	R4923	nsp	220K-J,1/16W-1608REEL		C20002246M160S	1		
	R4924	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1		
	R4925	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1		
	R4926	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R4927,4928	nsp	220-J,1/5W-52RE-AX		C00002216P520S	2		
	R4929	9631250126305	22-J,1W-5REEL		C060022065050S	1		
	R4930	nsp	150-J,1/5W-52RE-AX		C00001516P520S	1		
	R4931	nsp	270-J,1/5W-52RE-AX		C00002716P520S	1		
	R4932	nsp	1.2K-J,1W-5REEL		C060012265050S	1		
	R4933	nsp	47-J,1W-R.REEL		C060047065060S	1		
	R4934	00D2412399912	1.8K-J,1/5W-52RE-AX		C00001826P520S	1		
	R4935	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R4936	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R4937	9631250031405	5.6K-J,1W-R.REEL		C060056265050S	1		
	R4938	963252100140D	DHPTHF1608 471P 105T SMD PTC THERMISTOR		F320471001050S	1		
	R4939	9631250031405	5.6K-J,1W-R.REEL		C060056265050S	1		
	R4940	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R4941	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
	R4942	nsp	680K-J,1/5W-52RE-AX		C00006846P520S	1		
	R4943	963121006330M	47K-J,1/5W-52RE-AX		C00004736P520S	1		
	R4944,4945	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	R4946	9631250126305	22-J,1W-5REEL		C060022065050S	1		
	R4947	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R4948	nsp	270K-J,1/16W-1608REEL		C20002746M160S	1		
	R4949	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R4951	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1		
	R4952	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4953	9631245005005	RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL		N113136622820S	1	*	
	R4955	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1		
	R4957	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R4958	nsp	1K-J,1/5W-52RE-AX		C00001026P520S	1		
	R4959	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R4961	9631245005005	RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL		N113136622820S	1	*	
	R4963	nsp	3.3K-J,1W-R.REEL		C060033265050S	1		
	R4965	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1		
	R4966	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1		
	R4967	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R4968,4969	nsp	220-J,1/5W-52RE-AX		C00002216P520S	2		
	R4970	9631250126305	22-J,1W-5REEL		C060022065050S	1		
	R4971	nsp	150-J,1/5W-52RE-AX		C00001516P520S	1		
	R4972	nsp	270-J,1/5W-52RE-AX		C00002716P520S	1		
	R4973	nsp	1.2K-J,1W-5REEL		C060012265050S	1		
	R4974	nsp	47-J,1W-R.REEL		C060047065060S	1		
	R4975	00D2412399912	1.8K-J,1/5W-52RE-AX		C00001826P520S	1		
	R4976	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R4977	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R4978	9631250031405	5.6K-J,1W-R.REEL		C060056265050S	1		
	R4979	963252100140D	DHPTHF1608 471P 105T SMD PTC THERMISTOR		F320471001050S	1		
	R4980	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R4981	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
	R4982	nsp	680K-J,1/5W-52RE-AX		C00006846P520S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R4983	9631250031405	5.6K-J,1W-R.REEL		C060056265050S	1		
	R4984	963121006330M	47K-J,1/5W-52RE-AX		C00004736P520S	1		
	R4985,4986	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	R4987	9631250126305	22-J,1W-5REEL		C060022065050S	1		
	R4988	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R4989	nsp	270K-J,1/16W-1608REEL		C20002746M160S	1		
	R4990	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R4992	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1		
	R4993	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4994	963124500500S	RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL		N113136622820S	1	*	
	R4996	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1		
	R4998	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R4999	nsp	1K-J,1/5W-52RE-AX		C00001026P520S	1		
	R5000	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R5002	963124500500S	RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL		N113136622820S	1	*	
	R5004	nsp	3.3K-J,1W-R.REEL		C060033265050S	1		
	R5006	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1		
	R5007	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1		
	R5008	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R5009,5010	nsp	220-J,1/5W-52RE-AX		C00002216P520S	2		
	R5011	9631250126305	22-J,1W-5REEL		C060022065050S	1		
	R5012	nsp	150-J,1/5W-52RE-AX		C00001516P520S	1		
	R5013	nsp	270-J,1/5W-52RE-AX		C00002716P520S	1		
	R5014	nsp	1.2K-J,1W-5REEL		C060012265050S	1		
	R5015	nsp	47-J,1W-R.REEL		C060047065060S	1		
	R5016	00D2412399912	1.8K-J,1/5W-52RE-AX		C00001826P520S	1		
	R5017	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R5018	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R5019	9631250031405	5.6K-J,1W-R.REEL		C060056265050S	1		
	R5020	963252100140D	DHPTHF1608 471P 105T SMD PTC THERMISTOR		F320471001050S	1		
	R5021	9631250031405	5.6K-J,1W-R.REEL		C060056265050S	1		
	R5022	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R5023	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
	R5024	nsp	680K-J,1/5W-52RE-AX		C00006846P520S	1		
	R5025	963121006330M	47K-J,1/5W-52RE-AX		C00004736P520S	1		
	R5026,5027	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	R5028	9631250126305	22-J,1W-5REEL		C060022065050S	1		
	R5029	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R5030	nsp	270K-J,1/16W-1608REEL		C20002746M160S	1		
	R5031	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R5033	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1		
	R5034	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R5035	963124500500S	RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL		N113136622820S	1	*	
	R5037	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1		
	R5039	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R5040	nsp	1K-J,1/5W-52RE-AX		C00001026P520S	1		
	R5041	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R5043	963124500500S	RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL		N113136622820S	1	*	
	R5045	nsp	3.3K-J,1W-R.REEL		C060033265050S	1		
	R5047	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1		
	R5048	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1		
	R5049	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R5050,5051	nsp	220-J,1/5W-52RE-AX		C00002216P520S	2		
	R5052	9631250126305	22-J,1W-5REEL		C060022065050S	1		
	R5053	nsp	150-J,1/5W-52RE-AX		C00001516P520S	1		
	R5054	nsp	270-J,1/5W-52RE-AX		C00002716P520S	1		
	R5055	nsp	1.2K-J,1W-5REEL		C060012265050S	1		
	R5056	nsp	47-J,1W-R.REEL		C060047065060S	1		
	R5057	00D2412399912	1.8K-J,1/5W-52RE-AX		C00001826P520S	1		
	R5058	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R5059	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R5060	9631250031405	5.6K-J,1W-R.REEL		C060056265050S	1		
	R5061	963252100140D	DHPTHF1608 471P 105T SMD PTC THERMISTOR		F320471001050S	1		
	R5062	9631250031405	5.6K-J,1W-R.REEL		C060056265050S	1		
	R5063	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R5064	nsp	JUMPER (0.6/52MM)		L045084006040S	1		
	R5065	nsp	680K-J,1/5W-52RE-AX		C00006846P520S	1		
	R5066	963121006330M	47K-J,1/5W-52RE-AX		C00004736P520S	1		
	R5067,5068	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	R5069	9631250126305	22-J,1W-5REEL		C060022065050S	1		
	R5070	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R5071	nsp	270K-J,1/16W-1608REEL		C20002746M160S	1		
	R5072	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R5074	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1		
	R5075	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R5076	963124500500S	RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL		N113136622820S	1	*	
	R5078	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1		
	R5080	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R5081	nsp	1K-J,1/5W-52RE-AX		C00001026P520S	1		
	R5082	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R5084	963124500500S	RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL		N113136622820S	1	*	
	R5087	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1		
	R5088	nsp	3.3K-J,1W-R.REEL		C060033265050S	1		
	R5089	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1		
	R5090	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R5091,5092	nsp	220-J,1/5W-52RE-AX		C00002216P520S	2		
	R5093	9631250126305	22-J,1W-5REEL		C060022065050S	1		
	R5094	nsp	150-J,1/5W-52RE-AX		C00001516P520S	1		
	R5095	nsp	270-J,1/5W-52RE-AX		C00002716P520S	1		
	R5096	nsp	1.2K-J,1W-5REEL		C060012265050S	1		
	R5097	nsp	47-J,1W-R.REEL		C060047065060S	1		
	CAPACIITORS GROUP							
	C4800	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4801	nsp	X7R)0.01UF-K/50V-1608REEL		D010103777160S	1		
	C4802	963134503020S	47UF-M/50V,6.3*11 KR3-050V470ME110-T/A5.0S KOSHIN		D040470087550S	1	*	
	C4804	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C4805	9631335015405	ST-0.00022UF-J/100V-5RE		D02022106C050S	1		
	C4806	13405013240AS	47UF-M/25V,5*11 KR3-025V470MC110-T/A5.0S KOSHIN		D040470084550S	1	*	
	C4807	00D2544573994	22UF-M/50V,5*11 RA3-50V220ME3#8P-T2 ELNA		D040220087330S	1		
	C4808	13405014440AS	100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1	*	
	C4810	nsp	B470PF-K/500V-5RE		D00447127D050S	1		
	C4811	nsp	X7R2200PF-K/50V-2012REEL		D011222777200S	1		
	C4815	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4816	963134503020S	47UF-M/50V,6.3*11 KR3-050V470ME110-T/A5.0S KOSHIN		D040470087550S	1	*	
	C4818	00D9630324005	100UF-M/100V,10*16-S.BULK,MHA-SY		D04010108C240S	1		
	C4819	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C4820	9631335015405	ST-0.00022UF-J/100V-5RE		D02022106C050S	1		
	C4821	13405013240AS	47UF-M/25V,5*11 KR3-025V470MC110-T/A5.0S KOSHIN		D040470084550S	1	*	
	C4822	00D2544573994	22UF-M/50V,5*11 RA3-50V220ME3#8P-T2 ELNA		D040220087330S	1		
	C4823	13405014440AS	100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1	*	
	C4825	nsp	B470PF-K/500V-5RE		D00447127D050S	1		
	C4826	nsp	X7R2200PF-K/50V-2012REEL		D011222777200S	1		
	C4830,4831	00D9630338402	330UF-M/6.3V,6.3*11-5RE SMS SY		D040331081050S	2		
	C4832	00D9630324607	47UF-M/10V,5*11-5RE SMS SY (Pb Free)		D040470082060S	1		
	C4835	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4836	963134503020S	47UF-M/50V,6.3*11 KR3-050V470ME110-T/A5.0S KOSHIN		D040470087550S	1	*	
	C4838	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C4839	9631335015405	ST-0.00022UF-J/100V-5RE		D02022106C050S	1		
	C4840	13405013240AS	47UF-M/25V,5*11 KR3-025V470MC110-T/A5.0S KOSHIN		D040470084550S	1	*	
	C4841	00D2544573994	22UF-M/50V,5*11 RA3-50V220ME3#8P-T2 ELNA		D040220087330S	1		
	C4842	13405014440AS	100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1	*	
	C4844	nsp	B470PF-K/500V-5RE		D00447127D050S	1		
	C4845	nsp	X7R2200PF-K/50V-2012REEL		D011222777200S	1		
	C4849	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4850	963134503020S	47UF-M/50V,6.3*11 KR3-050V470ME110-T/A5.0S KOSHIN		D040470087550S	1	*	
	C4852	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C4853	9631335015405	ST-0.00022UF-J/100V-5RE		D02022106C050S	1		
	C4854	13405013240AS	47UF-M/25V,5*11 KR3-025V470MC110-T/A5.0S KOSHIN		D040470084550S	1	*	
	C4855	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	1		
	C4856	13405014440AS	100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1	*	
	C4858	nsp	B470PF-K/500V-5RE		D00447127D050S	1		
	C4859	nsp	X7R2200PF-K/50V-2012REEL		D011222777200S	1		
	C4863	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4864	963134503020S	47UF-M/50V,6.3*11 KR3-050V470ME110-T/A5.0S KOSHIN		D040470087550S	1	*	
	C4866	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C4867	9631335015405	ST-0.00022UF-J/100V-5RE		D02022106C050S	1		
	C4868	13405013240AS	47UF-M/25V,5*11 KR3-025V470MC110-T/A5.0S KOSHIN		D040470084550S	1	*	
	C4869	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	1		
	C4870	13405014440AS	100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1	*	
	C4872	nsp	B470PF-K/500V-5RE		D00447127D050S	1		
	C4873	nsp	X7R2200PF-K/50V-2012REEL		D011222777200S	1		
	C4878	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4879	963134503020S	47UF-M/50V,6.3*11 KR3-050V470ME110-T/A5.0S KOSHIN		D040470087550S	1	*	
	C4880	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C4881	9631335015405	ST-0.00022UF-J/100V-5RE		D02022106C050S	1		
	C4882	13405013240AS	47UF-M/25V,5*11 KR3-025V470MC110-T/A5.0S KOSHIN		D040470084550S	1	*	
	C4883	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	1		
	C4884	13405014440AS	100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1	*	
	C4886	nsp	B470PF-K/500V-5RE		D00447127D050S	1		
	C4887	nsp	X7R2200PF-K/50V-2012REEL		D011222777200S	1		
	C4892	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4893	963134503020S	47UF-M/50V,6.3*11 KR3-050V470ME110-T/A5.0S KOSHIN		D040470087550S	1	*	
	C4894	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C4895	9631335015405	ST-0.00022UF-J/100V-5RE		D02022106C050S	1		
	C4896	13405013240AS	47UF-M/25V,5*11 KR3-025V470MC110-T/A5.0S KOSHIN		D040470084550S	1	*	
	C4897	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	1		
	C4898	13405014440AS	100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1	*	
	C4900	nsp	B470PF-K/500V-5RE		D00447127D050S	1		
	C4901	nsp	X7R2200PF-K/50V-2012REEL		D011222777200S	1		
	OTHER PARTS GROUP							
	BKT4800	nsp	MET37-0002/TAPIG EARTH FITTING		3790040886000S	1		
	CLP4800,4801	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	2		
	CN4800	nsp	130MM/7P 20010HS-07=CKM2002HV-07 WH1007#26		L002131072620S	1	*	
	CP4800	nsp	YMW025-05R DIP ST		L102025050020S	1	*	
	CP4801	nsp	20010WS-13A00 DIP13P STRAIGHT		L101200101310S	1		
	CP4802	nsp	YMW025-08R DIP ST		L102025080020S	1	*	
	CP4803	nsp	YMW025-03R DIP ST		L102025030020S	1	*	
	TP4800	nsp	20010WR-03A00 DIP3P RIGHT ANGLE		L101200100320S	1		
	TP4802	nsp	20010WR-03A00 DIP3P RIGHT ANGLE		L101200100320S	1		
	TP4804	nsp	20010WR-03A00 DIP3P RIGHT ANGLE		L101200100320S	1		
	TP4806	nsp	20010WR-03A00 DIP3P RIGHT ANGLE		L101200100320S	1		
	TP4808	nsp	20010WR-03A00 DIP3P RIGHT ANGLE		L101200100320S	1		
	TP4810	nsp	20010WR-03A00 DIP3P RIGHT ANGLE		L101200100320S	1		
	TP4813	nsp	20010WR-03A00 DIP3P RIGHT ANGLE		L101200100320S	1		
	VR4800-4806	9631610124005	EVN-DCAA03B13/REEL 1KB		C5411023150005	7		

HDMI PCB ASS'Y

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

※The parts listed b NOTE:The symbols in the column Remarks indicate the following destinations.

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

B : Black model SG : Silver gold model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D1024	963204500220D	LRB521S-30T1G SOD523 SCHOTTKY BARRIER DIODE		K125521305230S	1		
	D1089	963204500220D	LRB521S-30T1G SOD523 SCHOTTKY BARRIER DIODE		K125521305230S	1		
	D1094	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323	U	K005041480230S	1		
	D1095	963263101000S	BIR-BM1341W 3PI INFRARED LED	U	K505134101050S	1	*	
	D1096	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1		
	D1103-1105	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	3		
	D1138	00D2760739907	KDS181S(B)-THICK SOT-23		K005018100040S	1		
	IC6000	963239101330S	TC7SGU04FU SSOP5-P-0.65A INVERTER(UNBUFFERED)		J040704000210S	1	*	
	Q1000	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1001	9432165000050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1002	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1003	9432165000050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1004	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1005	9432165000050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1006-1009	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	4		
	Q1010	9432165000050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1011	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1012	9432165000050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1013	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1014	9432165000050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1015	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1016,1017	9432165000050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	2		
	Q1018,1019	9432145000020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J5223052000505	2		
	Q1022-1029	9432145000020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J5223052000505	8		
	Q1030,1031	9632125000030S	ISA1530AC1 0.2W/SC-59 ISAHAYA		J5200153012105	2		
	Q1032	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1037	9432155000020S	RT1P141C 0.2W/SC-59 ISAHAYA	U	J5201014112105	1		
	Q1038	9632190021805	2SD2114KT146W SMT3 SOT23-REEL		J5232114K0010S	1		
	Q1039,1040	9432145000020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J5223052000505	2		
	Q1041	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1043	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1046	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1047	9432165000050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1050	9432165000050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1051	9632190042005	FDC608PZ P-CH 2.5V MOSFET SOT6		J5436080000105	1		
	Q1052	9432145000020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J5223052000505	1		
	Q1055	9632115001600	PBSS5140U SOT323 40V LOW VCEsat PNP TR		J5210514010105	1		
	Q1056	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1057	9432165000050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1058	9632190042005	FDC608PZ P-CH 2.5V MOSFET SOT6		J5436080000105	1		
	Q1059	9632115001600	PBSS5140U SOT323 40V LOW VCEsat PNP TR		J5210514010105	1		
	Q1060	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1062	9432165000050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1063	9632190042005	FDC608PZ P-CH 2.5V MOSFET SOT6		J5436080000105	1		
	Q1064	9632115001600	PBSS5140U SOT323 40V LOW VCEsat PNP TR		J5210514010105	1		
	Q1065	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1066	9432165000050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1067	9632190042005	FDC608PZ P-CH 2.5V MOSFET SOT6		J5436080000105	1		
	Q1068	9632115001600	PBSS5140U SOT323 40V LOW VCEsat PNP TR		J5210514010105	1		
	Q1069	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1070	9432165000050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1071	9632190042005	FDC608PZ P-CH 2.5V MOSFET SOT6		J5436080000105	1		
	Q1072	9632115001600	PBSS5140U SOT323 40V LOW VCEsat PNP TR		J5210514010105	1		
	Q1073	9432165000020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	U1000	963236101810S	MN8647781 HDMI 2.0 HQFP144P		J0408647785105	1	*	
	U1001	00D2623436907	TC74VHC244FT OCTAL BUS BUFFER TSSOP20		J0407424455305	1		
	U1002	963239101350S	SN74CBT3251PWR TSSOP16 FET MUX/DEMUX		J0407432510305	1	*	
	U1003	963236101810S	MN8647781 HDMI 2.0 HQFP144P		J0408647785105	1	*	
	U1004	00D2623436907	TC74VHC244FT OCTAL BUS BUFFER TSSOP20		J0407424455305	1		
	U1005	nsp	MFI337S3959 COPROCESSOR(IPOD) DENON SAGUB		J0443373959105	1		
	U1007,1008	963644101940S	PIN HEADER 1.27MM 64P GPEC244-3202 B002 B1 AD		L4242446402005	2	*	
	U1016	963239101340S	TC74VHC125FTS1-TBB TSSOP14P QUAD BUS BUFFER		J0407412502005	1	*	
	U1017	963239101320S	R1EX24128BSAS0I 128Kbit SERIAL SOP8 RENESAS		J0002412820105	1	*	
	U1018	963243102090M	R5F56108VNFP (MAIN CPU for CX870)	U/N	8952160500040	1	*	
	U1019	963262012150M	R94EV1A 36KHZ STRAIGHT LEAD P=2.54MM	U	E9409410036105	1		
	U1020	963243102400S	R5F5210ABDFP (ROM768kB RAM96kB) P-LFQFP100 RENESAS		8952160500100	1		
	U1022	nsp	AD8195 HDMI/DVI BUFFER EQ LFCSP40		J0408195055105	1		
	U1023	9432460126905	W9864G6JH-6 1M*4BANKS*16BIT(64MB) TSOP54		J0019864660105	1		
	U1024	963245100510S	ADSP21487KSWZ-3B3083 SHARC PROCESSOR LQFP176		J0802148756405	1	*	
	U1025	963248102750S	MX25L1606EM2I-12G 16M CMOS SERIAL FLASH SOP8		8952160500090	1		
	U1026	23681016160AS	AD55/058Z-0(ADV8003KBCZ-8B)		J0458003050105	1	*	
	U1027	963248102760S	MX25L12835FMI-10G 128M SERIAL FLASH SOP16		8952160500080	1		
	U1028,1029	963246101010S	A3R12E40CBF-8E 512Mb DDR2 SDRAM FBGA84		J0010301240805	2	*	
	U1030	943239010400S	NJM2845DL1-33 3.3V TO-252-3 LOW-DROP VOL REGULATOR		J1262845330105	1		
	U1032	943239010400S	NJM2845DL1-33 3.3V TO-252-3 LOW-DROP VOL REGULATOR		J1262845330105	1		
	U1033	943239100730S	PST8448UR SYSTEM RESET SC-82AB MITSUMI		J1258448000105	1		
	U1039	963236101810S	MN8647781 HDMI 2.0 HQFP144P		J0408647785105	1	*	
	U1040	23681014050AS	PCM9211 TRANSCEIVER LQFP48		J0469211000105	1		
	U1041	963248102770S	5M80ZT100C5N TQFP100		8952160500060	1		
	U1042	00D2623077900	TC74VHCU04FT HEX INVERTER TSSOP14		J0407404055805	1		
	U1043	963239101100S	BCR-802-M25 25MBPS OPTICAL RECEIVER INTERFACE		E1008020002505	1		
	U1045	963248102780S	5M80ZT100C5N TQFP100		8952160500070	1		
	U1048	nsp	PCM1690 HTSSOP48		J0421690000105	1		
	U1050	943239010400S	NJM2845DL1-33 3.3V TO-252-3 LOW-DROP VOL REGULATOR		J1262845330105	1		
	U1052	943239100690S	PCM5100 TSSOP20 AUDIO STEREO DAC		J0425100055105	1		
	U1055	963236101220D	ADV7850 HDMI 1.4A RECEIVER BGA425		J0407850055105	1		
	U1061-1070	963239101370S	EN5339QI 3A BUCK PWM DC-DC QFN24P		J0485339000105	10	*	
	U6000	nsp	iBT-06-02S BT MODULE CLASS2 V2.1+EDR HCI INTERFACE		E1007000600205	1	*	
	U6001	963239101380S	BD00HA3MEFJ-ME2 HTSOP-J8 LDO REGULATOR 0.3A		J1260000000305	1	*	
	RESISTOR GROUP							
	R1000	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1001	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1006	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1010,1011	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1012	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1013	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1014	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1015,1016	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R1017	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1018	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1019	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1020	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1021	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1022	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1024,1025	nsp	47-J,1/16W-1005REEL		C20004706M101S	2		
	R1027	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1029	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1031	nsp	510-D,1/16W-1608REEL		C20005111M161S	1	*	
	R1033	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1037	nsp	510-D,1/16W-1608REEL		C20005111M161S	1	*	
	R1038	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1039	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1040,1041	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1042	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1043	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1044,1045	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1052	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	1		
	R1053	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1055	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	1		
	R1057,1058	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	2		
	R1059-1062	nsp	47-J,1/16W-1005REEL		C20004706M101S	4		
	R1063	nsp	1M-J,1/16W-1005REEL		C20001056M101S	1		
	R1064	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1068	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1069	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1070	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1071,1072	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1074	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1075	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1076	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1077-1079	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	3		
	R1080	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1081,1082	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1083	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1084,1085	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1086	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1087,1088	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1090,1091	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1094	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1095	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1096	nsp	2.2K-J,1/16W-1005REEL		C20002226M101S	1		
	R1097	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1099	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1101	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1102	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1103,1104	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1105	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1106	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1107,1108	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1117	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1118,1119	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1120	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1121	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1122	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1123,1124	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1125	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1126	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1127	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1128	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1129	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1130	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1132,1133	nsp	47-J,1/16W-1005REEL		C20004706M101S	2		
	R1135	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1137	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1139	nsp	510-D,1/16W-1608REEL		C20005111M161S	1	*	
	R1141	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1145	nsp	510-D,1/16W-1608REEL		C20005111M161S	1	*	
	R1146	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1147	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1148,1149	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1150	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1151	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1152,1153	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1160	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	1		
	R1161	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1162	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1163	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	1		
	R1165,1166	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	2		
	R1168-1170	nsp	47-J,1/16W-1005REEL		C20004706M101S	3		
	R1171	nsp	1M-J,1/16W-1005REEL		C20001056M101S	1		
	R1173-1176	nsp	10K-J,1/16W-1005REEL		C20001036M111S	4		
	R1177	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1178	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1179-1181	nsp	47K-J,1/16W-1005REEL		C20004736M101S	3		
	R1183	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1184	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1185	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1186	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1187,1188	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1189	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1190,1191	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1192	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1194,1195	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1197,1198	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1199	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1201	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1206	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1209,1210	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1216,1217	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1220	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1221	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1222	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1233	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1234	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R1235	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1236-1238	nsp	100-J,1/16W-1005REEL		C20001016M101S	3		
	R1239	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1240	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1241,1242	nsp	100-J,1/16W-1005REEL		C20001016M101S	2		
	R1249,1250	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1252	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1253	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1254	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	1		
	R1255	nsp	10-F,1/16W-1005REEL		C20001004M100S	1		
	R1258	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	1		
	R1259-1261	nsp	0-J,1/16W-1005REEL		C20000006M101S	3		
	R1263	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1264	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1332	nsp	22K-J,1/16W-1005REEL		C20002236M101S	1		
	R1335	nsp	22K-J,1/16W-1005REEL		C20002236M101S	1		
	R1337	nsp	22K-J,1/16W-1005REEL		C20002236M101S	1		
	R1339	nsp	22K-J,1/16W-1005REEL		C20002236M101S	1		
	R1341	nsp	22K-J,1/16W-1005REEL		C20002236M101S	1		
	R1343	nsp	22K-J,1/16W-1005REEL		C20002236M101S	1		
	R1344,1345	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1346	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1347	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1348	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1349	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1354	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1355	nsp	16K-J,1/16W-1005REEL		C20001636M101S	1		
	R1356	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1357	nsp	120K-J,1/16W-1005REEL		C20001246M101S	1		
	R1358	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1359	nsp	120K-J,1/16W-1005REEL		C20001246M101S	1		
	R1360	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1362	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1363	nsp	120K-J,1/16W-1005REEL		C20001246M101S	1		
	R1364	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1366	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1367,1368	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1369	nsp	33K-J,1/16W-1005REEL		C20003336M101S	1		
	R1370	nsp	18K-J,1/16W-1005REEL		C20001836M101S	1		
	R1379	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1387-1390	nsp	33-J,1/16W-1005REEL		C20003306M101S	4		
	R1393,1394	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1395	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1398,1399	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1400	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1401-1407	nsp	33-J,1/16W-1005REEL		C20003306M101S	7		
	R1408	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1410	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1412	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1414	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1418	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1421	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1422,1423	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1425-1427	nsp	33-J,1/16W-1005REEL		C20003306M101S	3		
	R1428	nsp	0-J,1/10W-1608REEL	U	C2000000060161S	1		
	R1428	nsp	22K-J,1/16W-1608REEL	F	C20002236M160S	1		
	R1431	nsp	0-J,1/10W-1608REEL	N	C2000000060161S	1		
	R1431	nsp	10K-J,1/16W-1608REEL	F	C20001036M160S	1		
	R1432-1434	nsp	1K-J,1/16W-1005REEL		C20001026M101S	3		
	R1436	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1438-1441	nsp	33-J,1/16W-1005REEL		C20003306M101S	4		
	R1442	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1452	nsp	100-J,1/16W-1005REEL	U	C20001016M101S	1		
	R1455,1456	nsp	1K-J,1/16W-1005REEL	U	C20001026M101S	2		
	R1457-1460	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	4		
	R1461	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1462	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1464	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1465	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1466	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1467	nsp	100-J,1/16W-1005REEL	U	C20001016M101S	1		
	R1468	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1469	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1470-1477	nsp	33-J,1/16W-1005REEL		C20003306M101S	8		
	R1478	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1479-1484	nsp	33-J,1/16W-1005REEL		C20003306M101S	6		
	R1485	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1486	nsp	1.2K-J,1/16W-1005REEL		C20001226M101S	1		
	R1487	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1488	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1489	nsp	2.2M-J,1/16W-1005REEL		C20002256M101S	1		
	R1490	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1491	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1492	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1493	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1494	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1495	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1496	nsp	27K-J,1/16W-1005REEL		C20002736M101S	1		
	R1497	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1498	nsp	220K-J,1/16W-1005REEL		C20002246M101S	1		
	R1499	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1500	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1501	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1502,1503	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1506	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1507,1508	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1509	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1510	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1512	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1513-1516	nsp	33-J,1/16W-1005REEL		C20003306M101S	4		
	R1517	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1518,1519	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1522	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1523	nsp	1M-J,1/16W-1005REEL		C20001056M101S	1		
	R1524	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1544	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R1545,1546	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1547	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1552	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1553	nsp	2.2K-J,1/16W-1005REEL		C20002226M101S	1		
	R1558	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1561	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1563,1564	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1565	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1567-1570	nsp	10K-J,1/16W-1005REEL		C20001036M111S	4		
	R1571	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1573	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1574	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1575,1576	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1578,1579	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1580	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1581,1582	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1584	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1585	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1587	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1588	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1589	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1590	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1591	nsp	10-J 1/16W SMD(1005)*4 WA04X		C180100042100S	1		
	R1593	nsp	10-J 1/16W SMD(1005)*4 WA04X		C180100042100S	1		
	R1594	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1595	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1597	nsp	10-J 1/16W SMD(1005)*4 WA04X		C180100042100S	1		
	R1599	nsp	10-J 1/16W SMD(1005)*4 WA04X		C180100042100S	1		
	R1600	nsp	10K-J*4 1/16W SMD(1005) WA04		C180103042100S	1		
	R1601	nsp	2.2K-J,1/16W-1005REEL		C20002226M101S	1		
	R1603	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1604,1605	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1606,1607	nsp	10K-J*4 1/16W SMD(1005) WA04		C180103042100S	2		
	R1608	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1610	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1612	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1613,1614	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1615	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1617	nsp	10K-J*4 1/16W SMD(1005) WA04		C180103042100S	1		
	R1618	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1619	nsp	1M-J,1/16W-1005REEL		C20001056M101S	1		
	R1620	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1621-1624	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	4		
	R1625	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1626	nsp	220-J,1/16W-1005REEL		C20002216M101S	1		
	R1627	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1630,1631	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	2		
	R1632	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1633	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1634	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1635	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1637,1638	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1639	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1640	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1641	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1642,1643	nsp	1K-D,1/16W-1608REEL		C20001021M160S	2		
	R1644	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1645	nsp	470-D,1/16W-1608REEL		C20004711M160S	1		
	R1647	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1651	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1652	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1655	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1657	nsp	0-J*2 1/16W SMD(1005) WA04Y		C180000022100S	1		
	R1658	nsp	2.7K-F,1/16W-1608REEL		C20002724M161S	1		
	R1659	nsp	180-F,1/16W-1608REEL		C20001814M161S	1		
	R1660	nsp	2.7K-F,1/16W-1608REEL		C20002724M161S	1		
	R1661	nsp	180-F,1/16W-1608REEL		C20001814M161S	1		
	R1663-1665	nsp	0-J*2 1/16W SMD(1005) WA04Y		C180000022100S	3		
	R1667-1669	nsp	33-J,1/16W-1005REEL		C20003306M101S	3		
	R1671-1674	nsp	0-J,1/16W-1005REEL		C20000006M101S	4		
	R1675	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1676,1677	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1678	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1680	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1681	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1682	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1683	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1684	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1685,1686	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	2		
	R1687	nsp	56-J,1/16W-1005REEL		C20005606M101S	1		
	R1688,1689	nsp	47-J,1/16W-1005REEL		C20004706M101S	2		
	R1690,1691	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1692	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	1		
	R1693,1694	nsp	47-J,1/16W-1005REEL		C20004706M101S	2		
	R1695-1700	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	6		
	R1701,1702	nsp	47-J,1/16W-1005REEL		C20004706M101S	2		
	R1703-1710	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	8		
	R1711	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1715,1716	nsp	1K-D,1/16W-1608REEL		C20001021M160S	2		
	R1717,1718	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1731	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1732	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1733,1734	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1735	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1736	nsp	348K-F,1/16W-1608REEL		C20034834M161S	1	*	
	R1737	nsp	300K-F,1/16W-1608REEL		C20003044M160S	1	*	
	R1738	nsp	39K-F,1/16W-1608REEL		C20003934M161S	1		
	R1739	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1740	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1741,1742	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1743	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1746	nsp	22K-J,1/16W-1005REEL		C20002236M101S	1		
	R1747	nsp	39K-F,1/16W-1608REEL		C20003934M161S	1		
	R1748	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1750	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1751	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R1752	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1753	nsp	348K-F,1/16W-1608REEL		C20034834M161S	1	*	
	R1754	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1755	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1756	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1759	nsp	300K-F,1/16W-1608REEL		C20003044M160S	1	*	
	R1760	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1761	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1762	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1763	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1764	nsp	348K-F,1/16W-1608REEL		C20034834M161S	1	*	
	R1765	nsp	412K-F,1/16W-1608REEL		C20041234M161S	1	*	
	R1766	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1767	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1768	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1769	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1770,1771	nsp	348K-F,1/16W-1608REEL		C20034834M161S	2	*	
	R1772	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1773	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1774	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1775	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1776-1778	nsp	10K-J,1/16W-1005REEL		C20001036M111S	3		
	R1779	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1780	nsp	348K-F,1/16W-1608REEL		C20034834M161S	1	*	
	R1781	nsp	160K-F,1/16W-1608REEL		C20001644M160S	1	*	
	R1782,1783	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1784	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1785	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1786	nsp	2K-F,1/16W-1005REEL		C20002024M100S	1	*	
	R1787	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1788	nsp	348K-F,1/16W-1608REEL		C20034834M161S	1	*	
	R1789	nsp	169K-F,1/16W-1608REEL		C20016934M161S	1	*	
	R1790	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1791	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1793	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1794	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1795	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1796	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1797	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1798	nsp	39K-F,1/16W-1608REEL		C20003934M161S	1		
	R1799	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1800	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1801	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1802	nsp	76.8K-F,1/16W-1608REEL		C20076824M161S	1	*	
	R1803	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1804	nsp	348K-F,1/16W-1608REEL		C20034834M161S	1	*	
	R1806,1807	nsp	348K-F,1/16W-1608REEL		C20034834M161S	2	*	
	R1808	nsp	169K-F,1/16W-1608REEL		C20016934M161S	1	*	
	R1809	nsp	300K-F,1/16W-1608REEL		C20003044M160S	1	*	
	R1810	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1811	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1812	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1813,1814	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1815	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1816	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1817	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1818,1819	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1820,1821	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1822	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1823	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1824	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1827	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1828	nsp	348K-F,1/16W-1608REEL		C20034834M161S	1	*	
	R1829	nsp	76.8K-F,1/16W-1608REEL		C20076824M161S	1	*	
	R1830	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1831	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1832	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1850-1852	nsp	47K-J,1/16W-1005REEL		C20004736M101S	3		
	R1853-1855	nsp	10-J,1/16W-1005REEL		C20001006M101S	3		
	R1858	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1861	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1862,1863	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1864,1865	nsp	10-J,1/16W-1005REEL		C20001006M101S	2		
	R1866	nsp	510-D,1/16W-1608REEL		C20005111M161S	1	*	
	R1867	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1868	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1871	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1872	nsp	510-D,1/16W-1608REEL		C20005111M161S	1	*	
	R1873-1880	nsp	0-J,1/16W-1005REEL		C20000006M101S	8		
	R1881-1883	nsp	47-J,1/16W-1005REEL		C20004706M101S	3		
	R1884	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1885,1886	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	2		
	R1887,1888	nsp	51-D,1/16W-1608REEL		C20005101M160S	2		
	R1889,1890	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1891	nsp	5.1-J,1/16W-1005REEL		C2005R106M100S	1		
	R1892	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1893	nsp	1M-J,1/16W-1005REEL		C20001056M101S	1		
	R1894	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1897	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1898	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1899	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1900,1901	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1902	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1903	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1905	nsp	820-J,1/16W-1005REEL		C20008216M101S	1		
	R1906	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1907	nsp	680-J,1/16W-1005REEL		C20006816M101S	1		
	R1908	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1909	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1910	nsp	10K-J*4 1/16W SMD(1005) WA04		C180103042100S	1		
	R1911	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1914,1915	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1916,1917	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	2		
	R1919	nsp	0-J,1/10W-1608REEL		C200000060161S	1		
	R1920,1921	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1922	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R1923	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1924	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1925-1928	nsp	33-J,1/16W-1005REEL		C20003306M101S	4		
	R1930-1933	nsp	33-J,1/16W-1005REEL		C20003306M101S	4		
	R1934	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1935-1942	nsp	33-J,1/16W-1005REEL		C20003306M101S	8		
	R1943	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1944,1945	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1950	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1953-1955	nsp	10K-J,1/16W-1005REEL		C20001036M111S	3		
	R1956	nsp	470-J,1/16W-1005REEL		C20004716M101S	1		
	R1957	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1958,1959	nsp	150-J,1/16W-1005REEL		C20001516M101S	2		
	R1960	nsp	330K-J,1/16W-1005REEL		C20003346M101S	1		
	R1961	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1967	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1968	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1970-1975	nsp	33-J,1/16W-1005REEL		C20003306M101S	6		
	R1976-1980	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	5		
	R1981,1982	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1983	nsp	5.1-J,1/16W-1005REEL		C2005R106M100S	1		
	R1988-1990	nsp	0-J*2 1/16W SMD(1005) WA04Y		C180000022100S	3		
	R1993,1994	nsp	1K-J,1/16W-1005REEL		C20001026M101S	2		
	R1997,1998	nsp	0-J,1/10W-1608REEL		C2000000601615	2		
	R1999	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2002	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2010	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2013	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2017	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2020	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R2021	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2027,2028	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R2029	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R2032	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R2033	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R2034	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2037	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R2038	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2043	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R2044	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2047	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2049	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R2057	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R2058	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2061	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R2062	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2066	nsp	470-J,1/16W-1005REEL		C20004716M101S	1		
	R2067	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R2068	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R2069	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2072	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2074	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R2078	nsp	470-J,1/16W-1005REEL		C20004716M101S	1		
	R2082	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2085	nsp	100-J,1/16W-1608REEL		C20001016M161S	1	*	
	R2089-2092	nsp	24-J,1/16W-1608REEL		C20002406M160S	4		
	R2093-2096	nsp	51-J,1/16W-1608REEL		C20005106M160S	4		
	R2097	nsp	2.2K-J,1/16W-1005REEL		C20002226M101S	1		
	R2117	nsp	0-J,1/10W-1608REEL		C2000000601615	1		
	R2118	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R2120	nsp	470-D,1/16W-1608REEL		C20004711M160S	1		
	R2121	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R2123,2124	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R2125	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2126	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R2127	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R2129	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2132	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2133	nsp	47K-J 1/16W SMD(1005)*4 WA04X		C180473042100S	1		
	R2134	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R2135	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2136	nsp	47K-J 1/16W SMD(1005)*4 WA04X		C180473042100S	1		
	R2137	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R2139	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2140,2141	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R2142	nsp	10-J 1/16W SMD(1005)*4 WA04X		C180100042100S	1		
	R2143,2144	nsp	2.2K-J,1/16W-1005REEL		C20002226M101S	2		
	R2146	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R2147	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R2150	nsp	47K-J 1/16W SMD(1005)*4 WA04X		C180473042100S	1		
	R2151	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2156	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2159	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R2162	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R2163	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R2164	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2171	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R2173-2180	nsp	0-J,1/16W-1005REEL		C20000006M101S	8		
	R6000	nsp	680K-J,1/16W-1005REEL		C20006846M101S	1	*	
	R6001	nsp	22M-J,1/16W-1005REEL		C20002266M101S	1	*	
	R6002-6004	nsp	10K-J,1/16W-1005REEL		C20001036M111S	3		
	R6005	nsp	39K-J,1/16W-1005REEL		C20003936M101S	1		
	R6006	nsp	11K-J,1/16W-1005REEL		C20001136M101S	1	*	
	R6007-6012	nsp	0-J,1/16W-1005REEL		C20000006M101S	6		
	CAPACIITORS GROUP							
	C1000-1007	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	8		
	C1008-1010	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	3		
	C1015	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1016-1025	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	10		
	C1030,1031	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1032	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1034,1035	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1042,1043	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1044	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1045-1047	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1056,1057	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C1058	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1059	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1060,1061	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1062	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1067,1068	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	2		
	C1069-1072	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	4		
	C1073	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1074-1076	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1077,1078	nsp	COG)10PF-J/50V-1608REEL		D010100167161S	2		
	C1079-1085	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	7		
	C1086	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1087-1090	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	4		
	C1091-1093	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	3		
	C1098	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1099-1108	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	10		
	C1113,1114	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	2		
	C1115	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1117,1118	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	2		
	C1125,1126	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	2		
	C1127	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1128-1130	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1139,1140	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	2		
	C1141	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1142	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1143,1144	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1145	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1150,1151	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	2		
	C1152-1155	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	4		
	C1156	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1157-1159	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1160,1161	nsp	COG)10PF-J/50V-1608REEL		D010100167161S	2		
	C1162-1168	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	7		
	C1169	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1170,1171	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1173	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1174	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1176,1177	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1179,1180	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	2		
	C1182,1183	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	2		
	C1187,1188	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1201	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1202	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1203	nsp	X7R 0.022UF-K/50V-1608REEL		D0102237771605	1	*	
	C1286,1287	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1288,1289	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	2		
	C1292-1297	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	6		
	C1298	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1305-1310	nsp	COG)100PF-J/50V-1005REEL		D011101167101S	6		
	C1317-1320	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	4		
	C1321-1325	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	5		
	C1327	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1330-1332	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1334,1335	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1336,1337	nsp	COG)10PF-D/50V-1005REEL		D011100117101S	2		
	C1339	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1342	nsp	X7R)4.7UF-K/6.3V-1608REEL	U	D0114755711605	1		
	C1344	nsp	X7R)4.7UF-K/6.3V-1608REEL	U	D0114755711605	1		
	C1346	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1348	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1349	nsp	X7R)220PF-K/50V-1005REEL		D011221177101S	1		
	C1350-1354	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	5		
	C1355,1356	nsp	COG 8PF-D/50V-1005REEL FENGHUA		D011080117101S	2		
	C1357	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1380	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1385-1387	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1388	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1389,1390	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1391	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1392,1393	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1394,1395	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	2		
	C1396	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1402	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1403,1404	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1405	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1406	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1407,1408	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	2		
	C1409	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1410	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1411,1412	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1413	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1414	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1415,1416	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	2		
	C1417	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1418	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1419	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1420	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1421	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1422	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1423	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1424	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1425	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1426	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1427	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1428-1431	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	4		
	C1432,1433	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1434	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1435,1436	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1437	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1438	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1439	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1440	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1441-1443	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	3		
	C1444,1445	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1446-1448	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	3		
	C1449,1450	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1451	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C1452	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1453	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1454	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1455	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1456	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1457,1458	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	2		
	C1459,1460	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1461	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1462,1463	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1464,1465	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	2		
	C1466-1468	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1469-1472	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	4		
	C1473	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1474	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1475	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1476,1477	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	2		
	C1478-1480	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1481-1483	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	3		
	C1484	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1485,1486	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	2		
	C1487,1488	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1489,1490	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	2		
	C1491,1492	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1493	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1494	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1495,1496	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	2		
	C1497,1498	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1499	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1500,1501	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	2		
	C1504,1505	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	2		
	C1506,1507	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	2		
	C1508	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1509	nsp	COG)12PF-J/50V-1005REEL		D011120167101S	1		
	C1510	nsp	COG)10PF-D/50V-1005REEL		D011100117101S	1		
	C1514	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1515-1517	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	3		
	C1518-1522	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	5		
	C1523	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1524,1525	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1526	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1527,1528	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1529-1532	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	4		
	C1534	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1535	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1536	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1540	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1541	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1542	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1543	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1544	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1545	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1547	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1548	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1549	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1551	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1552	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1553	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1554	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1555	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1556-1561	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	6		
	C1562-1565	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	4		
	C1566	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1567	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1568	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1569	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1570	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1571	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1575	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1576	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1577	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1580	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1581	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1582	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1583	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1585	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1586	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1587	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1588	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1589	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1590-1592	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1593	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1594	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1595	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1596	nsp	X7R)4.7UF-K/6.3V-1608REEL		D0114755711605	1		
	C1597	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1598,1599	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	2		
	C1600	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1607	nsp	X7R 0.15uF-K/10V-1608REEL		D011154172160S	1		
	C1608	nsp	X7R)0.012UF-K/50V-1608REEL		D011123177161S	1		
	C1609	nsp	X7R 0.15uF-K/10V-1608REEL		D011154172160S	1		
	C1610	nsp	X7R)0.012UF-K/50V-1608REEL		D011123177161S	1		
	C1611,1612	nsp	COG7PF-D/50V-1608REEL		D010070117160S	2		
	C1613	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1614	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1615	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1616	nsp	COG)33PF-J/50V-1005REEL		D011330167101S	1		
	C1618	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1620	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1629-1644	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	16		
	C1645	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1654-1671	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	18		
	C1672	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1675	00D9630325402	470UF-MVG/6.3V,8.3*9.0*10 REEL (Z8158) SY		D050471081200S	1		
	C1677,1678	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1680	00D9630325402	470UF-MVG/6.3V,8.3*9.0*10 REEL (Z8158) SY		D050471081200S	1		
	C1681	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C1684,1685	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1686	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1687	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1688	nsp	COG)5PF-C/50V-1005REEL		D011050107101S	1		
	C1689	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	*	
	C1690	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1691	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	1		
	C1693	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1695	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1696	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1697	nsp	COG)5PF-C/50V-1005REEL		D011050107101S	1		
	C1698	nsp	X5R)2.2UF-K/16V-1608REEL GRM188R61C225KE15D		D011225573160S	1		
	C1700	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1701	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	*	
	C1702	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1703	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1704	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	1		
	C1705	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1707	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1708	nsp	X7R0.015UF-K/50V-1608REEL		D011153777160S	1		
	C1709,1710	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1713	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1714	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1715	nsp	COG)5PF-C/50V-1005REEL		D011050107101S	1		
	C1717	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1718	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	*	
	C1719	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1720,1721	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	2		
	C1723	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1724	nsp	COG)5PF-C/50V-1005REEL		D011050107101S	1		
	C1726	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1727	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1728	nsp	X5R)2.2UF-K/16V-1608REEL GRM188R61C225KE15D		D011225573160S	1		
	C1729	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1730	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	*	
	C1731	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1732,1733	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	2		
	C1735	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1736	nsp	COG)5PF-C/50V-1005REEL		D011050107101S	1		
	C1738	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1739	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	*	
	C1740	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1741,1742	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	2		
	C1744	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1745	nsp	COG)5PF-C/50V-1005REEL		D011050107101S	1		
	C1746,1747	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1749	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1750	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	*	
	C1751,1752	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1753	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1754	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1755	nsp	COG)5PF-C/50V-1005REEL		D011050107101S	1		
	C1756,1757	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	2		
	C1759,1760	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	2		
	C1761,1762	nsp	COG)5PF-C/50V-1005REEL		D011050107101S	2		
	C1763,1764	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	2		
	C1767	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1768	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1769	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	1		
	C1770	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	*	
	C1773-1775	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1776	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1777	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	*	
	C1778	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1779	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	*	
	C1782,1783	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	2		
	C1784	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1785	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1787	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	*	
	C1788	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1789	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1790	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1791	nsp	COG)5PF-C/50V-1005REEL		D011050107101S	1		
	C1792	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1797	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1802	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1807	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C1826-1828	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	3		
	C1973,1974	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1979,1980	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1989-1992	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	4		
	C1999,2000	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C2002-2011	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	10		
	C2012,2013	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C2018,2019	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C2024	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C2025-2028	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	4		
	C2029	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C2030,2031	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2032	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C2033-2035	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C2036	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C2037,2038	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2040,2041	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2042-2044	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	3		
	C2045-2050	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	6		
	C2051	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C2052	nsp	COG)10PF-D/50V-1005REEL		D011100117101S	1		
	C2055	nsp	COG)10PF-D/50V-1005REEL		D011100117101S	1		
	C2056	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C2057	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2058,2059	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	2		
	C2060,2061	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2062	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	1		
	C2063	nsp	COG)12PF-G/50V-1005REEL GRM1555C1H120GA01D		D010120157100S	1		
	C2064	nsp	COG)15PF-G/50V-1005REEL GRM1555C1H150GA01D		D010150157100S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C2065	nsp	C0G)0.068UF-J/50V-3216REEL GRM31C5C1H683JA01L		D010683167300S	1		
	C2066	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2067	nsp	C0G)4700PF-J/50V-2012REEL GRM2165C1H472JA01D		D010472167200S	1		
	C2068,2069	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2070,2071	nsp	X7R)0.1UF-K/25V-1608REEL		D011104774161S	2		
	C2072,2073	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	2		
	C2074	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2076-2083	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	8		
	C2085	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2086	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2088	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C2090	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2092-2102	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	11		
	C2103	00D9630325305	47UF-MVG/6.3V,4*3*5.1*5.3 REEL (Z8155) SY		D050470081460S	1		
	C2104,2105	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	2		
	C2110,2111	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2112-2136	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	25		
	C2143	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C2147	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2150	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C2154	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C2156	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2159,2160	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	2		
	C2161	nsp	X5R)2.2UF-K/16V-1608REEL GRM188R61C225KE15D		D011225573160S	1		
	C2163	00D9630325305	47UF-MVG/6.3V,4*3*5.1*5.3 REEL (Z8155) SY		D050470081460S	1		
	C2165	963134000450S	100UF-MVG/16V,6.6*7.2*5.7 REEL (Z8157) SY		D050101083660S	1		
	C2168,2169	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2174,2175	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2176	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	1		
	C2177	nsp	X7R)2200PF-K/50V-1005REEL		D011222177101S	1		
	C2178,2179	nsp	X5R)2.2UF-M/6.3V-1005REEL		D011225581100S	2		
	C2181	nsp	X7R)2200PF-K/50V-1005REEL		D011222177101S	1		
	C2187-2192	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	6		
	C2193	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C2194-2200	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	7		
	C2201	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2202	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C2203-2208	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	6		
	C2209	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C2210	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2211,2212	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	2		
	C2213	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2214	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2215	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C2216	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2217	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C2218-2220	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C2221	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C2222	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2223	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C2224	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2225-2228	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	4		
	C2229	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2230	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C2231,2232	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C2234,2235	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2236,2237	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	2		
	C2240-2243	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	4		
	C2244-2246	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	3		
	C2247	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2248,2249	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	2		
	C2250,2251	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2252,2253	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	2		
	C2254	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2255	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2256,2257	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2258	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C2259-2261	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C2262-2268	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	7		
	C2269	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2271,2272	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2273,2274	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	2		
	C2275,2276	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2277-2280	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	4		
	C2281	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2282-2284	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C2285-2290	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	6		
	C2291	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2292	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2293	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C2294	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2295-2297	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C2298,2299	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	2		
	C2300	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2301-2303	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C2304	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C2305	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2307	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2308	nsp	X7R)0.01UF-K/50V-1005REEL		D011103777101S	1		
	C2309	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2311,2312	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C2320	nsp	X7R)0.1UF-K/25V-1608REEL		D011104774161S	1		
	C2322	nsp	COG8PF-D/50V-1608REEL		D010080117160S	1		
	C2323	nsp	COG7PF-D/50V-1608REEL		D010070117160S	1		
	C2325	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C2327	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2340	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C2341	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C6000	nsp	COG)27PF-J/50V-1005REEL		D011270167101S	1		
	C6001	nsp	COG)22PF-J/50V-1005REEL		D011220167101S	1		
	C6002	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C6003,6004	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C6005,6006	nsp	X7R)1UF-K/6.3V-1005REEL		D011105771100S	2	*	
	C6007	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	OTHER PARTS GROUP							
	BKT1000,1001	nsp	AVRX2100BKE3 SPCC t0.5 Sn-Plating A4/SCREW L10		4010216016000S	2	*	

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	BKT1003	nsp	NR1403U1B SECCt0.8+Sn plating A4/HDMI BRACKET		4010215506000S	1		
	CLP1001,1002	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	2		
	CP6001	nsp	500MM/11P 20010HS-5=CKM2002HV-5 RD2725#24 SH 105C		L002501110010S	1	*	
	K1001	00D9630244703	EARPHONE JACK PJ-308-02	U	G40130802000YS	1		
	K1003	963646012160S	RCA-107C-BK(Black) PLATE NI CAP		G600107C0BK0YS	1		
	L1000-1013	nsp	CB05YTYH221-2012REEL		D340201292210S	14	*	
	L1016	nsp	CB05YTYH221-2012REEL		D340201292210S	1	*	
	L1017,1018	nsp	DLW21SN900HQ2L COMMON MODE CHOKE COILS SMD2012		D311201219000S	2		
	L1019	nsp	CB05YTYH221-2012REEL		D340201292210S	1	*	
	L1027-1030	nsp	0-J,1/10W-2012REEL		C200000060201S	4		
	L1034-1036	nsp	0-J,1/10W-2012REEL		C200000060200S	3		
	L1037-1049	nsp	CB05YTYH221-2012REEL		D340201292210S	13	*	
	L1051-1057	nsp	CB05YTYH221-2012REEL		D340201292210S	7	*	
	L1058	nsp	CB03YTYN121-1608REEL		D340160891210S	1	*	
	L1059-1077	nsp	CB05YTYH221-2012REEL		D340201292210S	19	*	
	L1080-1088	nsp	CB05YTYH221-2012REEL		D340201292210S	9	*	
	L1089	nsp	CB03YTYN121-1608REEL		D340160891210S	1	*	
	L1090-1106	nsp	CB05YTYH221-2012REEL		D340201292210S	17	*	
	L1109-1115	nsp	CB05YTYH221-2012REEL		D340201292210S	7	*	
	L1123	nsp	EXC24CH900U 90OHM COMMON MODE SMD-REEL		D311121089000S	1	*	
	L1124-1127	nsp	CB05YTYH221-2012REEL		D340201292210S	4	*	
	L1136	nsp	0-J,1/10W-2012REEL		C200000060201S	1		
	L6000,6001	nsp	CB05YTYH221-2012REEL		D340201292210S	2	*	
	L6002	nsp	0-J,1/10W-2012REEL		C200000060201S	1		
	N1000	nsp	1.0-16-23PB-2 23P ST SMT (JSY)		L130100162330S	1		
	N1001-1007	963643102850S	HD 19F SMT-028 19P SMT HDMICON WITH FLANGE		L109100190280S	7	*	
	N1009	nsp	1.0-16-7PB-2 7P ST SMT (JSY)		L130100160730S	1		
	N1010	963643102800S	RJ45-JACK(KRJ-015XXNL) KYD		G4060RJ450230S	1	*	
	N1011	nsp	1.0-16-7PB-2 7P ST SMT (JSY)		L130100160730S	1		
	N1013	nsp	C125Z2-07 7P BtoB SOCKET(FEMALE) P=1.25MM		L109012520730S	1	*	
	N1014	nsp	C125Z2-23 23P BtoB SOCKET(FEMALE) P=1.25MM		L109012522330S	1	*	
	N1015	nsp	C125Z2-15 15P BtoB SOCKET(FEMALE) P=1.25MM		L109012521530S	1	*	
	N1016	nsp	C125Z2-23 23P BtoB SOCKET(FEMALE) P=1.25MM		L109012522330S	1	*	
	N1017	nsp	1.0-15-40PB 40P VER SMT		L130100154030S	1		
	N1018	nsp	C125Z2-17 17P BtoB SOCKET(FEMALE) P=1.25MM		L109012521730S	1	*	
	N1019	nsp	20010WS-07A00 DIP7P STRAIGHT		L101200100710S	1		
	N1021	nsp	1.0-16-11PB-2 11P ST SMT (JSY)		L130100161130S	1		
	N1025	nsp	1.0-16-11PB-2 11P ST SMT (JSY)		L130100161130S	1		
	N1026	963643102860S	HD 19F SMT-029 19P SMT HDMICON W/O FLANGE		L109100190290S	1	*	
	N1027	nsp	1.0-16-10PB-2 10P ST SMT (JSY)		L130100161030S	1		
	N1028	nsp	1.0-16-7PB-2 7P ST SMT (JSY)		L130100160730S	1		
	N1029	nsp	SMW250-5P DIP ST		L102050010040S	1		
	N1031	963643102850S	HD 19F SMT-028 19P SMT HDMICON WITH FLANGE		L109100190280S	1	*	
	N1032	nsp	1.0-16-7PB-2 7P ST SMT (JSY)		L130100160730S	1		
	N1033	nsp	C125Z2-11 11P BtoB SOCKET(FEMALE) P=1.25MM		L109012521130S	1	*	
	N1034	nsp	1.0-16-6PB-2 6P ST SMT (JSY)		L130100160630S	1		
	N1035	nsp	1.0-16-7PB-2 7P ST SMT (JSY)		L130100160730S	1		
	N1036	nsp	20010WS-04A00 DIP4P STRAIGHT		L101200100410S	1		
	N1038	nsp	1.0-16-23PB-2 23P ST SMT (JSY)		L130100162330S	1		
	SW1	nsp	C12001-2020-03G-2537 HEADER P=2.0MM		L101012000310S	1	*	
	X1000,1001	963141101180S	27.000MHz CL=7PF FA-238/SMD3225 EPSON		E80527R000050S	2	*	
	X1003,1004	963141101160S	12.000MHz CL=8PF FA-238V/SMD3225 EPSON		E80512R000260S	2	*	
	X1005	963141101170S	21.875MHz CL=8PF FA-238/SMD3225 EPSON		E80521R875260S	1	*	
	X1006,1007	963141101180S	27.000MHz CL=7PF FA-238/SMD3225 EPSON		E80527R000050S	2	*	
	X1008	963141100770S	24.576MHz CL=10PF FA-238/SMD3225 EPSON		E80524R576050S	1		
	X1009	963141101180S	27.000MHz CL=7PF FA-238/SMD3225 EPSON		E80527R000050S	1	*	
	X6000	963141101190S	32.768KHz CL=12.5PF FC-135/SMD3215 EPSON		E80532R768260S	1	*	
	Z1001	nsp	SR5005U1BSPTE t0.3 A4/CASE	U	3070210646000S	1		

CX870_MIDDLE PCB ASS'Y

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

※The parts listed b NOTE:The symbols in the column Remarks indicate the following destinations.

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

B : Black model SG : Silver gold model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	U7000	963239101360S	BD82065FVJ CURRENT LIMIT 2.4A TSSOP-B8J		J046820650010S	1	*	
	RESISTOR GROUP							
	R7002,7003	nsp	0-J,1/10W-2012REEL		C200000060200S	2		
	R7004	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R7006,7007	nsp	0J*4 1/16W SMD(1005)		C180000040500S	2		
	R7008,7009	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R7010	nsp	0J*4 1/16W SMD(1005)		C180000040500S	1		
	R7011-7013	nsp	0-J,1/16W-1005REEL		C20000006M101S	3		
	R7014	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R7015	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R7016	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R7021	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R7025-7027	nsp	0-J,1/16W-1005REEL		C20000006M101S	3		
	R7028-7035	nsp	0-J,1/16W-1608REEL		C20000006M160S	8		
	R7036,7037	nsp	2.2K-J,1/16W-1005REEL		C20002226M101S	2		
	R7038	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R7041	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R7048-7052	nsp	0-J,1/16W-1005REEL		C20000006M101S	5		
	CAPACIITORS GROUP							
	C7000	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C7005	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C7006-7010	nsp	X7R)10UF-K/6.3V-2012REEL		D011106771201S	5	*	
	C7013,7014	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C7015,7016	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	2		
	OTHER PARTS GROUP							
	BKT7000,7001	nsp	AVRX2100BKE3 SPCC t0.5 Sn-Plating A4/SCREW L4.5		40102160060000S	2	*	
	CLP7000	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	1		
	L7000,7001	nsp	CB05YTYH221-2012REEL		D340201292210S	2	*	
	N7000	nsp	160MM/4P 20010HS-04=CKM2002HR-04 WH1007#26		L002161042630S	1	*	
	N7001	nsp	14-5046-120-645-829+ BD TO BD CON 120P WITH TAPE		L136504601260S	1	*	
	N7002	nsp	20010WR-05A00 DIP5P RIGHT ANGLE		L101200100520S	1		
	N7003,7004	nsp	FEMALE HEADER 1.27MM 32*2P CSEC202-3202 B001 C1 AF		L109020232020S	2	*	
	N7005	nsp	20010WR-11A00 DIP11P RIGHT ANGLE		L101200101120S	1		

EXPLODED

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

※The parts listed b NOTE:The symbols in the column Remarks indicate the following destinations.

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

B : Black model SG : Silver gold model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	47	9U6391013300M	HDMI PCB ASSY (U) (FOR CX870)	U	7025HK1316016	1	*	
	47	9U6391013400M	HDMI PCB ASSY (N) (FOR CX870)	N	7025HK1316026	1	*	
	47	9U6391013500M	HDMI PCB ASSY (F) (FOR CX870)	F	7025HK1316046	1	*	
	├42	nsp	BT PCB		7028074863010	1	*	
	└12	nsp	F-HDMI PCB		7028074862010	1	*	
	61	9636391014005	CX870 MIDDLE ASSY	U, F	7025HK131501A	1	*	Ver.2
	61	9636391018605	CX870 MIDDLE ASSY	N	7025HK131503A	1	*	Ver.2
	60	963189100650M	CX870 MODULE ASSY (U)	U	8952160500010	1	*	
	60	963189100660M	CX870 MODULE ASSY (N)	N	8952160500020	1	*	
	60	963189100670M	CX870 MODULE ASSY (F)	F	8952160500030	1	*	
	└	nsp	NR-1605(ALL) MAC ADDRESS(40X5)		—	1	*	
	24	nsp	AMP PCB		7028074811010	1	*	
	45	nsp	AUDIO_VIDEO PCB		7028074851010	1	*	
	14	nsp	FRONT PCB		7028074841010	1	*	
	├09	nsp	HEADPHONE&SETUP MIC PCB		7028074842010	1	*	
	└51	nsp	USB PCB		7028074843010	1	*	
	37	nsp	SMPS PCB		7028074834010	1	*	
	├18	nsp	GUIDE PCB(L)		7028074835010	1	*	
	├39	nsp	REG_CNT PCB		7028074832010	1	*	
	├40	nsp	REG PCB		7028074831010	1	*	
	├43	nsp	FRONT_CNT PCB		7028074833010	1	*	
	└48	nsp	GUIDE BT		7028074836010	1	*	
	38	nsp	SPEAKER PCB		7028074891010	1	*	
	├15	nsp	GUIDE CENTER FRONT PCB		7028074894010	1	*	
	├16	nsp	GUIDE CENTER PCB		7028074893010	1	*	
	└46	nsp	SIDE_CNT PCB		7028074892010	1	*	
	1	963412100780M	NR1403U1B BLACK A3/VOLUME KNOB	B	5080212691000S	2		
	1	963412100790M	NR1403/1603 SG A3/VOLUEM KNOB	SG	5087212691100S	2		
	2	-	NUTS		-	2		
	3	963419006180M	VOLUME RING BK	B	5127210901000S	2		
	3	963419006190M	VOLUME RING SG	SG	5127210901100S	2		
	4	963421006200M	BADGE		5630210678000S	1		
	5	963416100560M	WINDOW DISPLAY (ACRYL WINE)		5077212733020S	1		
	6	963402104490M	PANEL FRONT (U1B)	U	3067215591280S	1	*	
	6	963402104500M	PANEL FRONT (N1B)	N1B	3067215591290S	1	*	
	6	963402104510M	PANEL FRONT (N1SG)	N1SG	3067215591330S	1	*	
	6	963402104520M	PANEL FRONT (FB)	F	30672155912A0S	1	*	
	7	411510021005M	BUTTON POWER_BK	B	5090213961000S	1		
	7	963411012000M	BUTTON POWER_SG	SG	5097213961100S	1		
	8	963481006080M	INDICATOR POWER		3710210873000S	1		
	10	963481006070M	WINDOW INDICATOR		3710210843000S	2		
	11	963411101820M	BUTTON 4KEY BK	BK	5097215011000S	2		
	11	963411101830M	BUTTON 4KEY SG	SG	5097215011100S	2		
	13	nsp	AVR2310CIBKE3(DENON)(SECC+PVC)DARB-2Φ5.6~6X50/MTG		4330210189000S	4		
	17	nsp	HEAT SINK MAIN		212021183800DS	1	*	
	19	nsp	CM6001 F1B(MARANTZ) NO_156(15X45)(A4)ACETATE CLOTH		1220210059050S	1		
	20-A7-Q4808	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
	20-A3-Q4818	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
	20-A5-Q4827	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
	20-A6-Q4836	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
	20-A4-Q4845	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
	20-A2-Q4854	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
	20-A1-Q4863	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
	21-B7-Q4805	963219003340S	KTC3964/TO126S-BULK		J5023964000010S	1		
	21-B3-Q4815	963219003340S	KTC3964/TO126S-BULK		J5023964000010S	1		
	21-B5-Q4824	963219003340S	KTC3964/TO126S-BULK		J5023964000010S	1		
	21-B6-Q4833	963219003340S	KTC3964/TO126S-BULK		J5023964000010S	1		
	21-B4-Q4842	963219003340S	KTC3964/TO126S-BULK		J5023964000010S	1		
	21-B2-Q4851	963219003340S	KTC3964/TO126S-BULK		J5023964000010S	1		
	21-B1-Q4860	963219003340S	KTC3964/TO126S-BULK		J5023964000010S	1		
	22-C7-Q4802	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
	22-C3-Q4813	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
	22-C5-Q4822	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
	22-C6-Q4831	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
	22-C4-Q4840	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
	22-C2-Q4849	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
	22-C1-Q4858	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
	23	nsp	R925 SECC 1.0T/H SINK		4010056906010S	5		
	25	00M243W057210	FOOT		4007210841000S	4		
	26	00M32CW107010	FOOT CUSHION		4050215145000S	4		
	27	nsp	CHASSIS MAIN		3200214906000S	1	*	
	28	963403101240M	TOP COVER	BK	3007211786100S	1	*	Ver.2
	28	963403101250M	TOP COVER	SG	3007211786110S	1	*	Ver.2
	29	nsp	CUSHION SCREW		4050213025000S	2		
	30	nsp	SHEET		1210212472000S	2		
!	31	963101102310M	POWER TRANS (U)	U	8200858630740S	1	*	
!	31	963101102320M	POWER TRANS (N)	N	8200858630750S	1	*	
!	31	963101102330M	POWER TRANS (F)	F	8200858630760S	1	*	
	32	nsp	AVR1601(KE2)(DENON)_KIFCO(PS801) /P.C.		4070210192000S	1		
	33	nsp	CM6001 F1B(MARANTZ)_RUBBER BK 8*12*10t/MD DOOR B		4050212005000S	1		
	34	nsp	UPAF07 ABS BK/PCB		4070001601010S	1		
	35	nsp	BACK CHASSIS	U	3207214916000S	1	*	
	35	nsp	BACK CHASSIS	N	3207214916100S	1	*	
	35	nsp	BACK CHASSIS	F	3207214916110S	1	*	
	36	nsp	SMPS BRACKET		401021488600DS	1		
	41	nsp	SPACER		4300210062000S	1		
	44	nsp	BUSHING	N	2410040353010S	14		
	49	nsp	BRACKET HDMI		4010215226000S	1		
	50	nsp	SUPPORT		4070211653000S	1		
	52	nsp	BRACKET USB		4470212496000S	1		
!	53	963641500500S	AC INLET		G430040560021S	1	*	
	54	nsp	SHEET		1210211629000S	2		
	55	nsp	SPRING		3720210576000S	2	*	
	56	963419100910S	WIFI ANT BUSHING		2410210161000S	2	*	
	57	963419100930S	WIFI ANT SUPPORTER		4070212301000S	2	*	
	58	963419100920S	WIFI ANT HOLDER		4320211391000S	2	*	
	59-1	963116100530S	WIFI ANT(L) : wire 450mm		E600506600010S	1	*	
	59-2	963116100540S	WIFI ANT(R) : wire 300mm		E600505600010S	1	*	
	★	963612504760D	1.0*23*230*A(4/4/8/8)*(0.035*0.65)		N711232312480S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	★	9636065015805	1.0*40*240*A(4/4/8/8)*(0.035*0.65) 105C		N711402412490S	1		
	S1	nsp	SCREW (+2S 3*10 DOT BK)		B020030103B11S	29		
	S2	nsp	SCREW (+2S 3*8 ZNW/BH)		B020030081B10S	48		
	S3	nsp	SCREW (+2S 3*17 ZNY/BH)		B020030171B10S	1		
	S4	nsp	SCREW (+3S 4*10 ZNY/BH)		B028940101B11S	4		
	S5	nsp	SCREW (+2S 3*14 ZNY/HH)		B018230141H11S	21		
	S6	nsp	SCREW (+2S 3*8 PI12 WASHER)		1500001456010S	1		
	S7	nsp	SCREW (+2S 3*8 DOT BK/NI)	BK	B020030083B11S	6		
	S7	nsp	CR601 N1S(MARANTZ) +2S 3*8 B-TYPE(DOT) NI/BH	SG	B020030084B12S	6		
	S8	nsp	SCREW (+2S 3*10 ZNW/BH)		B020030101B10D	15		
	S9	nsp	SCREW (+2S 3*8 BK/FH)		B020030083F10S	2		
	S10	nsp	SCREW (+2S 3*8 ZNW/WPH)		B020030081W10S	1		
	S11	nsp	SCREW (+2S 3*8 PI9.5 WASHER)		1500001206010S	1		
	S12	nsp	SCREW (+2S 3*10 BK/NI)	BK	B020030103B10S	4		
	S12	nsp	NR1403N1SG(MARANTZ) +2S 3*10 B-TYPE NI/BH	SG	B020030104B11S	4		
	S13	nsp	SCREW (+3S 3*6 DOT BK/BH)		B020930063B10S	8		
	S14	nsp	SCREW (+2S 3*6 BK/BH)		B020030063B10S	2		
	S15	nsp	SCREW (+M 3*8 BK/FH)		B000030083F10S	1		
	S16	nsp	SCREW (+3S 3*5 ZNW/BH)		B020930051B10S	1	*	
	S17	nsp	SCREW (+3S 3*8 BK/BH)		B020930083B10S	3		
	★	nsp	60MM/2P CKM3962-03=18730(187REC) WH1617#22		L000600020130S	1		
	★	nsp	CABLE TIE DACT-100A		4330040343010S	6		
	★	nsp	AVRS900WBKE3(DENON) EVA(BK) HD(20~25) A4/CX870		4050215205000S	1	*	
	★	nsp	K-731(J) SPTE t0.3 A4/FLT		4320211196000S	1		

PACKING

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

※The parts listed b NOTE:The symbols in the column Remarks indicate the following destinations.

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

B : Black model SG : Silver gold model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	2	963533102350M	CUSHION SNOW (F/TOP)		6230213654000S	1	*	
	3	963533102360M	CUSHION SNOW (F/BTTM)		6230213664000S	1	*	
	4	963533102370M	CUSHION SNOW (R/TOP)		6230213674000S	1	*	
	5	963533102380M	CUSHION SNOW (R/BTTM)		6230213684000S	1	*	
	6	nsp	R03 AAA SIZE 1.5V		G670001R50242S	2	*	
	A4 SIZE POLYBAG ASSY							
		963116100550S	FM ANTENNA WIRE		E605010140050S	1	*	
		963116100560S	AM ANTENNA WIRE		E601019000050S	1	*	
		nsp	NOTES ON RADIO		5227000003230S	1	*	
		nsp	WARRANTY CARD	U	5727000000112S	1		
		nsp	WARRANTY CARD	U	5727041650142S	1		
		nsp	JAPAN POST CARD	F	5777200120214S			
		nsp	JAPAN ADRESS SHEET	F	5227000000066S			
		nsp	SAFETY SHEET	U	5227000003170S	1	*	
		nsp	SAFETY SHEET	N	5227000003180S			
		nsp	SAFETY SHEET	F	5227000003190S			
		9634191009400S	SPK WIRE LABEL		5507000016170S	1	*	
	A5 SIZE POLYBAG ASSY							
		54111118500AD	QUICK START GUIDE U	U	5707000009200S	1	*	
		54111118501AD	QUICK START GUIDE N	N	5707000009210S	1	*	
		54111118502AD	QUICK START GUIDE F	F	5707000009220S	1	*	
		35201033900AD	INST. MANUAL (U CD-ROM)	U	6517000001920S	1	*	
		35201033901AD	INST. MANUAL (N CD-ROM)	N	6517000001930S		*	
		35201033902AD	INST. MANUAL (F CD-ROM)	F	6517000001940S		*	
	7	30701016800AD	REMOCON (RC024SR)		8300024000040S	1	*	
	8	32401000800AD	AUTO SETUP MIC ACM1HB		M040000310080S	1		
	9	nsp	Warning 28 Language NITRON 750*1460/SET		6327040059000S	1		
	10	53121042700AM	BOX-GIFT		6007211420080S	1	*	
	11	nsp	CONTROL LABEL		5507000016120S	1	*	
	12	nsp	WARRANTY CARD(FB)	F	5777200120043S			
	13	nsp	TAPE PACKING W:50(NEW TAPE:4.5kgf)		1220210772000S	1.4		
	15	nsp	LABEL SIRIUS XM	U	5507000016180S	1	*	
	16	nsp	LABEL SPOTIFY	N	5507000016190S			
	17	nsp	LABEL COLOR	SG	5507000004600S			
	18	nsp	LABEL(POP)		5507000016210S	1	*	
!	19	90M-ZC000470R	AC CORD	U	L068125130020S	1		
!	19	90M-ZC000600R	AC CORD	N	L068250160120S			
!	19	963611500470S	AC CORD	F	L068125120190S			
	20	nsp	LISCENSE LABEL		5507000016160S	1	*	
	21	963549101000D	STAND ASSY MIC		4148210170000S	1	*	
	┣	nsp	AVRX2100 PAPER WH A3/MIC BASE A		4140210170000S	1	*	
	┣	nsp	AVRX2100WBKE3(DENON) PAPER WH A3/MIC BASE B		4140210180000S	1	*	
	┣	nsp	AVRX2100WBKE3(DENON) PAPER WH A3/MIC BODY A		4140210190000S	1	*	
	┣	nsp	AVRX2100WBKE3(DENON) PAPER WH A3/MIC BODY B		4140210200000S	1	*	
	┣	nsp	AVRX2100WBKE3(DENON) PAPER WH A3/MIC BODY C		4140210210000S	1	*	
	┗	nsp	AVR-X2100W(BKE3) / MIC STAND		5227000008170S	1	*	
	24	nsp	LABEL AVR_NR_SR / MIC		5507000015960S	1	*	
	★	nsp	SPK REAR SHEET		1217212369010S	1		
	★	nsp	POLY BAG RD6108(A GROUP) 330*240*0.05 SILK JACK-HOLE		6337040062010S	1		
	★	nsp	AVRE400BKE3(DENON) 20mmx66m yellow tape		1220211609000S	0.5		
	★	nsp	POLY BAG LD 160*250 NO SILK ZIPPER		6330210719000S	1	*	
	★	544510081006M	AVR-1910(E3) HOT-SURFACE		5507000003730S	1		