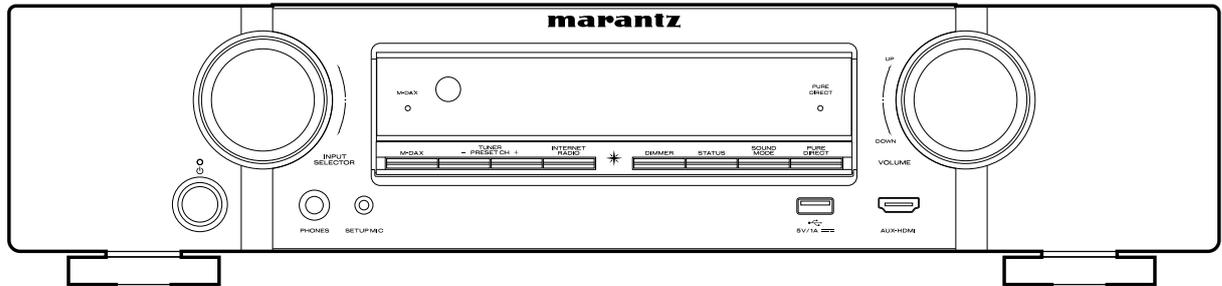


Service Manual

NR1506 /U1B/N1B/N1SG/K1B

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®

NR1506

Ver. 3

Please refer to the
MODIFICATION NOTICE.

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ABOUT THIS MANUAL

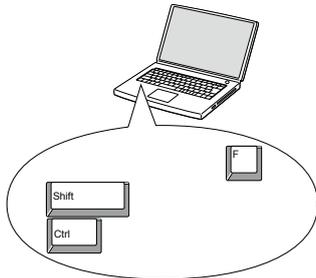
Read the following information before using the service manual.

What you can do with this manual

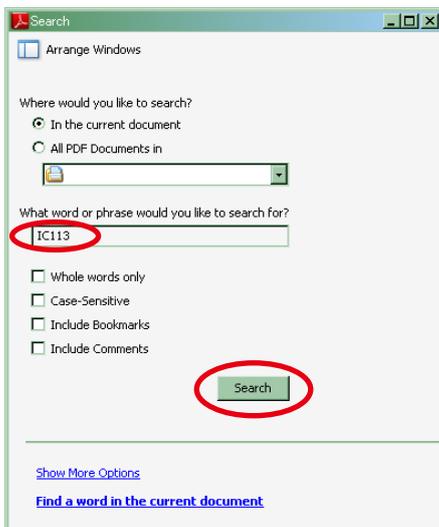
Search for a Ref. No. (phrase) (Ctrl+Shift+F)

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

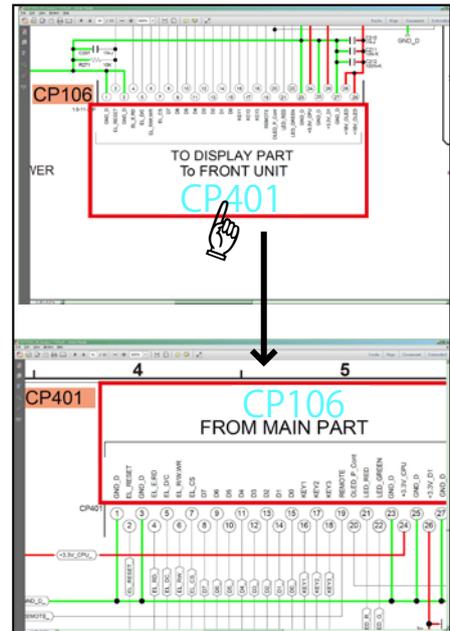


3. Click an item on the list.
- The screen jumps to the page for that item, and the search phrase is displayed.

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)

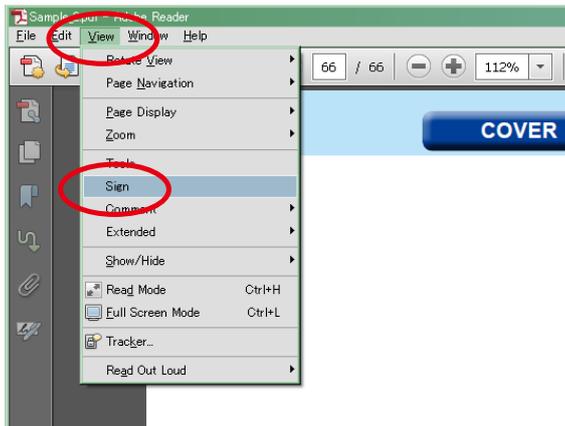
The Sign function lets you add notes to the data in this manual.

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]

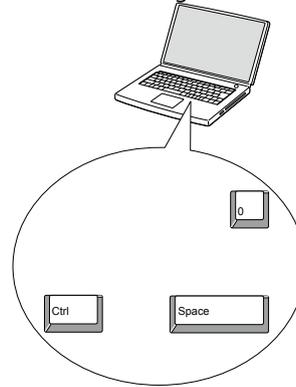
On the "Document" menu, click "Sign".

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.

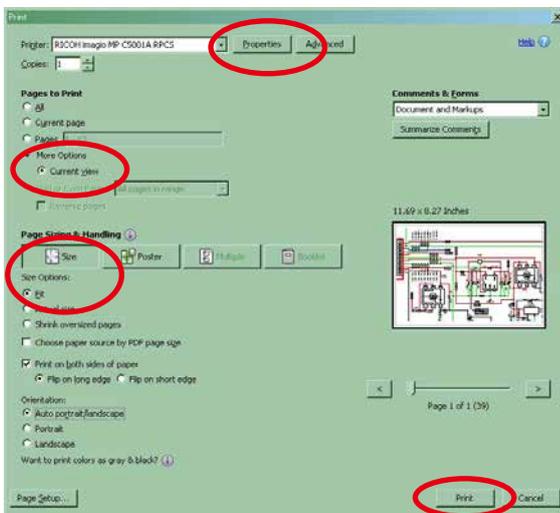


- When you want to move the area shown, hold down **Space** and drag the mouse.
- When you want to show a full page view, press **Ctrl+0** on the keyboard.

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.



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

• Properties

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

• Page to print

Select the following checkbox.

• "More Options" : "Current View"

• Page Sizing & Handling

Select the following checkbox.

• "Size" / "Size Options" : "Fit"

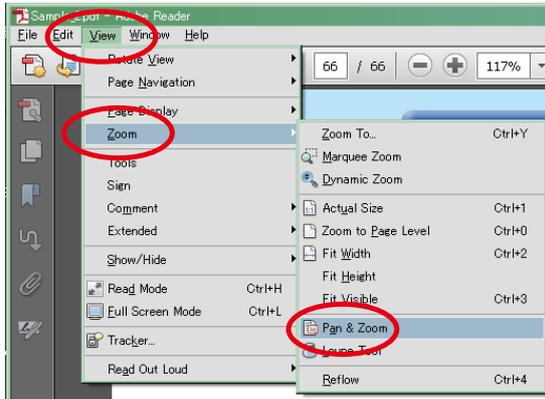
Magnify schematic / printed circuit board diagrams - 2

(Pan & Zoom function)

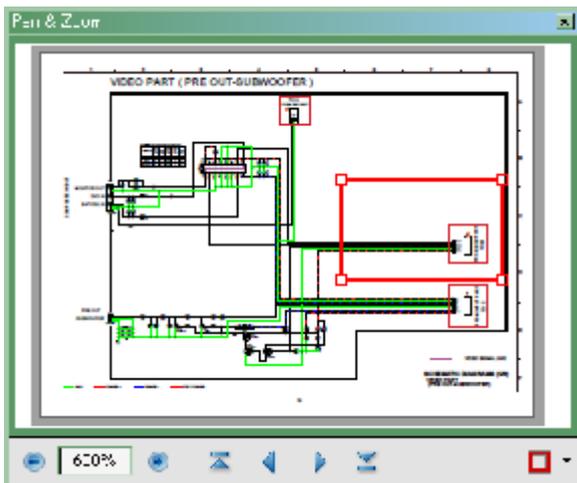
The Pan & Zoom function lets you see which part of a magnified diagram is being shown in a separate window.

[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".

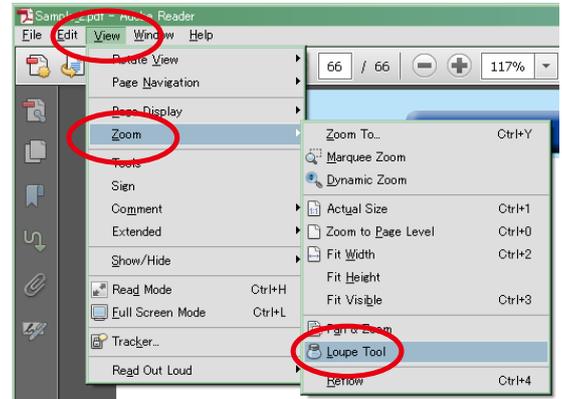
Magnify schematic / printed circuit board diagrams - 3

(Loupe Tool function)

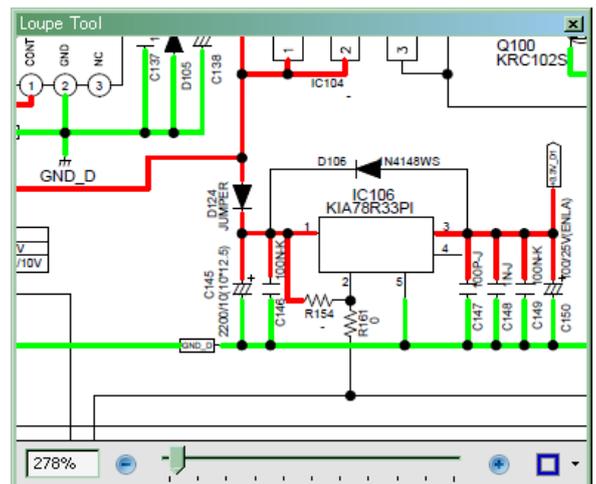
The Loupe Tool function lets you magnify a specific part of a diagram in a separate window.

[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 \triangle mark on schematic diagrams and parts lists, be sure to use the designated parts.

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

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

⊙ Make a safety check after servicing!

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

(Insulation check procedure)

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

CAUTION Concerning important safety parts

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

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

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

NOTE FOR SCHEMATIC DIAGRAM

WARNING:

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

CAUTION:

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

WARNING:

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

NOTICE:

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

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

NOTE FOR PARTS LIST

1. Parts indicated by "nsp" on this table cannot be supplied.
2. When ordering a part, make a clear distinction between "1" and "l" (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 \triangle mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

INSTRUCTIONS FOR HANDLING SEMI-CONDUCTORS AND OPTICAL UNIT

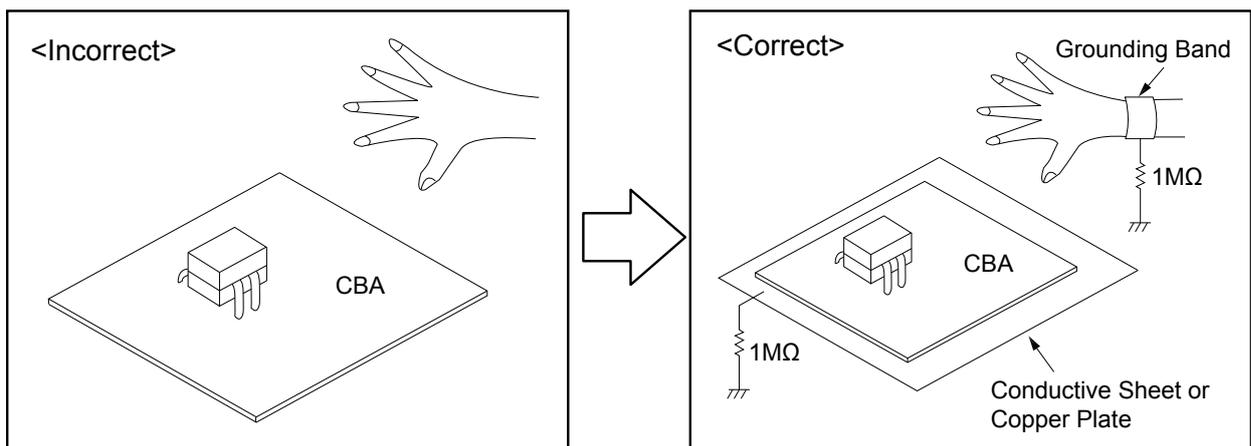
Electrostatic breakdown of the semi-conductors or optical pickup may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

1. Ground for Human Body

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

2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1 M Ω) 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



SPECIFICATIONS

□ Audio section

• Power amplifier

Rated output :

Front :

50 W + 50 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)
60 W + 60 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

CenterCenter :

50 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)
60 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Surround :

50 W + 50 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)
60 W + 60 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Output connectors : 4 – 16 Ω

□ 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 V_{p-p}, 75 Ω

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

□ Tuner section

(Note: μV at 75 Ω, 0 dBf = 1 x 10⁻¹⁵ W)

Reception frequency range :
FM 87.5 MHz - 107.9 MHz (for U)
FM 87.5 MHz - 108.0 MHz (for N, K)
AM 520 kHz - 1710 kHz (for U)
AM 522 kHz - 1611 kHz (for N, K)

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

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

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

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

□ Wireless LAN section

Network type (wireless LAN standard) : Conforming to IEEE 802.11b
 Conforming to IEEE 802.11g
 Conforming to IEEE 802.11n
 (Wi-Fi® compliant)*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, K)

*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*2

Frequency band : 2.4 GHz band

Modulation scheme : FHSS (Frequency-Hopping Spread Spectrum)

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

Corresponding codec : SBC, AAC

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

*2 The actual communication range varies depending on the influence of such factors as obstructions between devices, electromagnetic waves from microwave ovens, static electricity, cordless phones, reception sensitivity, antenna performance, operating system, application software etc.

□ General

Power supply : (for U) : AC 120 V, 60 Hz
 (for N) : AC 230 V, 50 Hz / 60 Hz
 (for K) : AC 220 V, 50 Hz

Power consumption : 180 W

Power consumption in standby mode : 0.2 W

Power consumption in CEC standby mode : 0.5 W

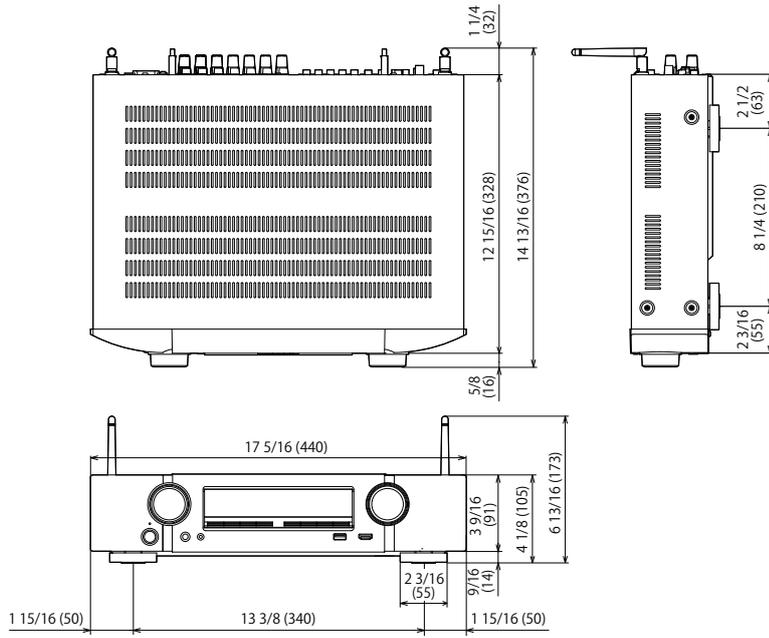
Power consumption in network standby mode : 2.7 W

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

DIMENSION

Unit : in. (mm)

Weight : 18 lbs 1 oz (8.2 kg)



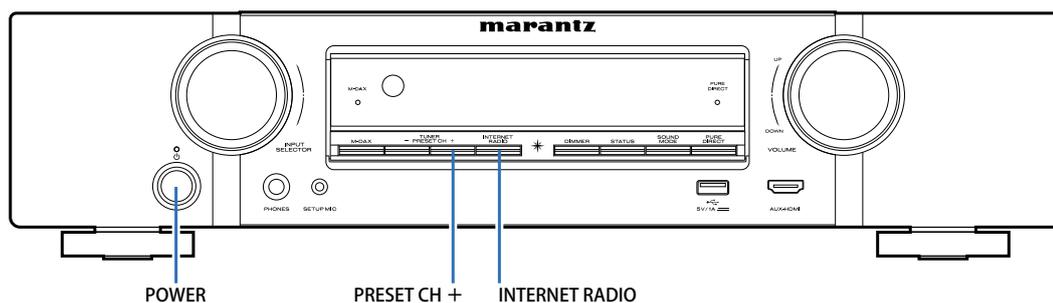
CAUTION IN SERVICING

Initializing This Unit

Make sure to initialize this unit after replacing the microcomputer or any peripheral equipment, or the digital PCB.

1. Press the power button to turn off the power.
2. While holding down buttons "TUNER PRESET CH +" and "INTERNET RADIO" simultaneously, press the power button to turn on the power.
3. Release the buttons after confirming that the display flashes at 1-second intervals.
* The unit is initialized.

NOTE : • If the unit fails to enter the service mode in step 3, repeat the procedure from step 1.
• Initializing the device restores the customized settings to the factory settings. Write down your settings in advance and reconfigure the settings after initialization.



JIG FOR SERVICING

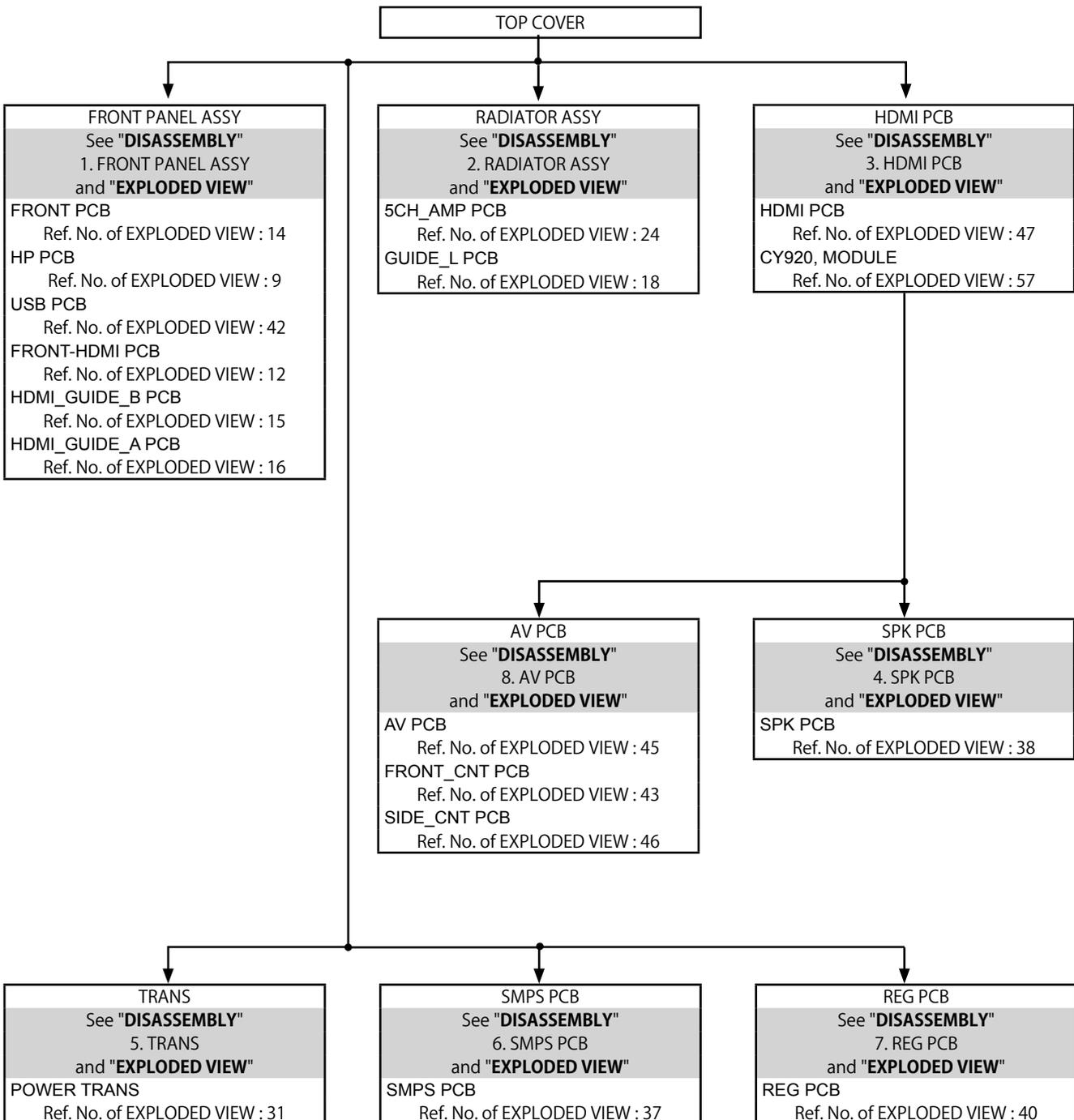
Use the following jigs (extension cable kit) when repairing the PCBs.
Order with your dealer for the jigs your dealer if necessary.

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

(See page 46)

DISASSEMBLY

- Remove each part following the flow below.
- Reassemble the removed parts in the reverse order.
- Read "**Precautions During Work**" before reassembling the 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.

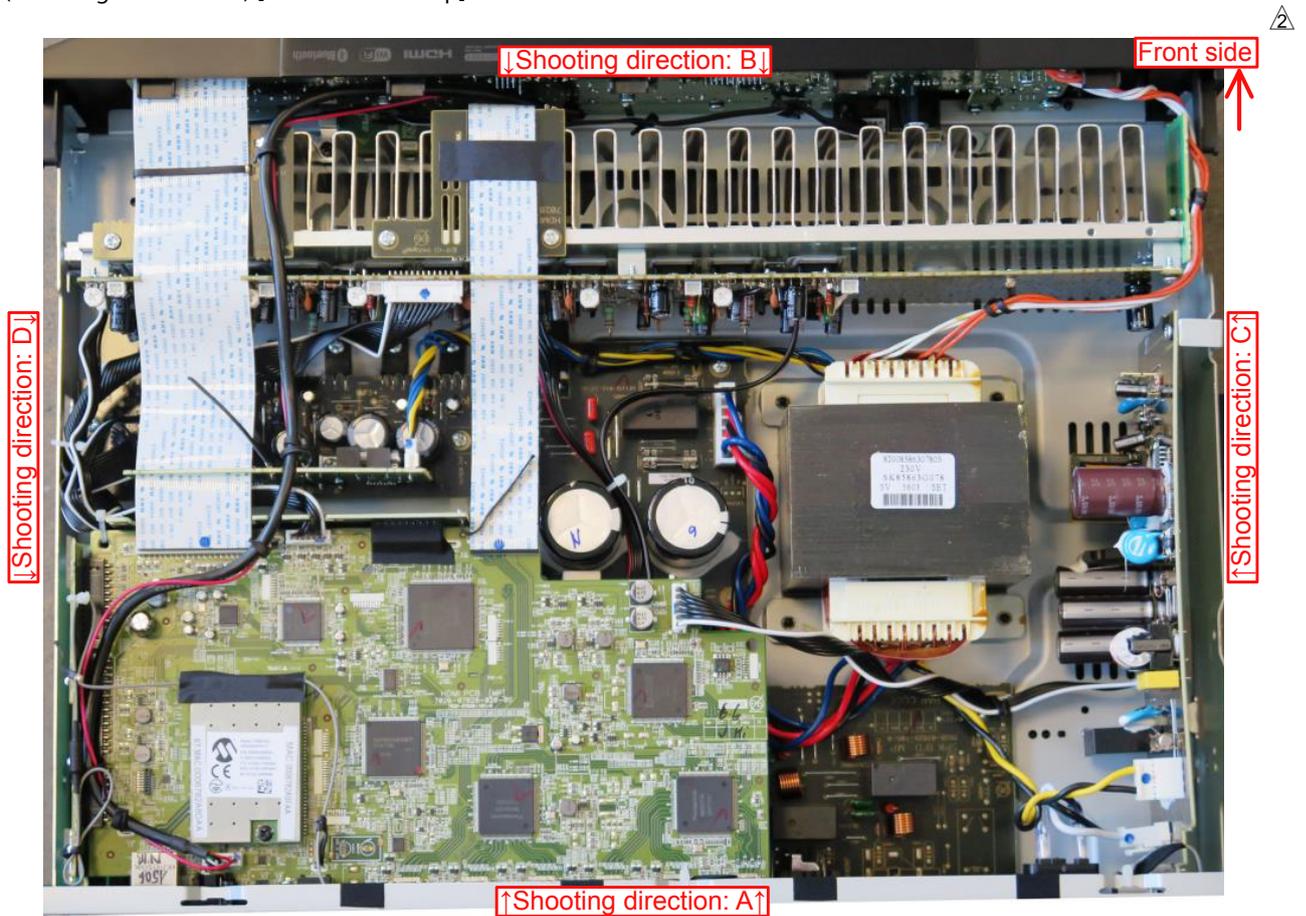


Explanatory Photos for DISASSEMBLY

- For the shooting direction of each photos used in this manual, see the photo below.
- **A, B, C and D** in the photo below indicate the **shooting directions** of photos.
- The photographs with no shooting direction indicated were taken from the top of the unit.
- Photos of NR1506 K1B are used in this manual.

The viewpoint of each photograph

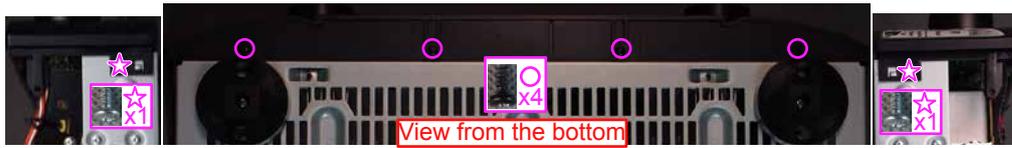
(Shooting direction : X) [View from the top]



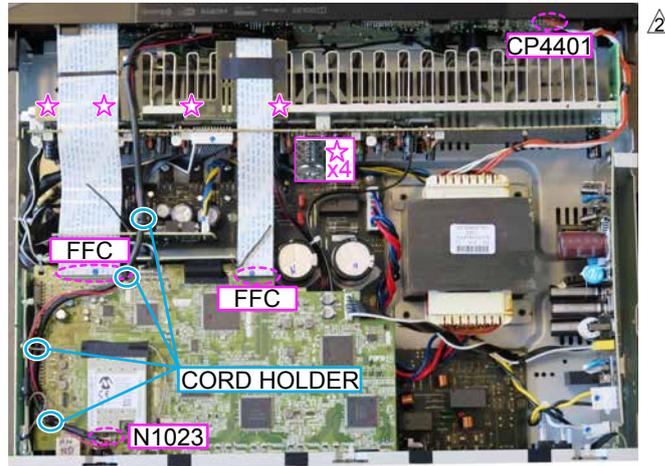
1. FRONT PANEL ASSY

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

(1) Remove the screws.



(2) Remove the screws. Remove the CORD HOLDERS and connector wires. Remove the FFC.



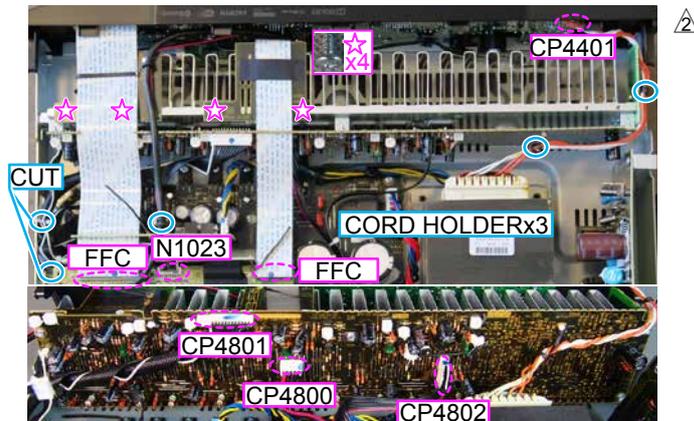
2. RADIATOR ASSY

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

(1) Remove the screws.



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



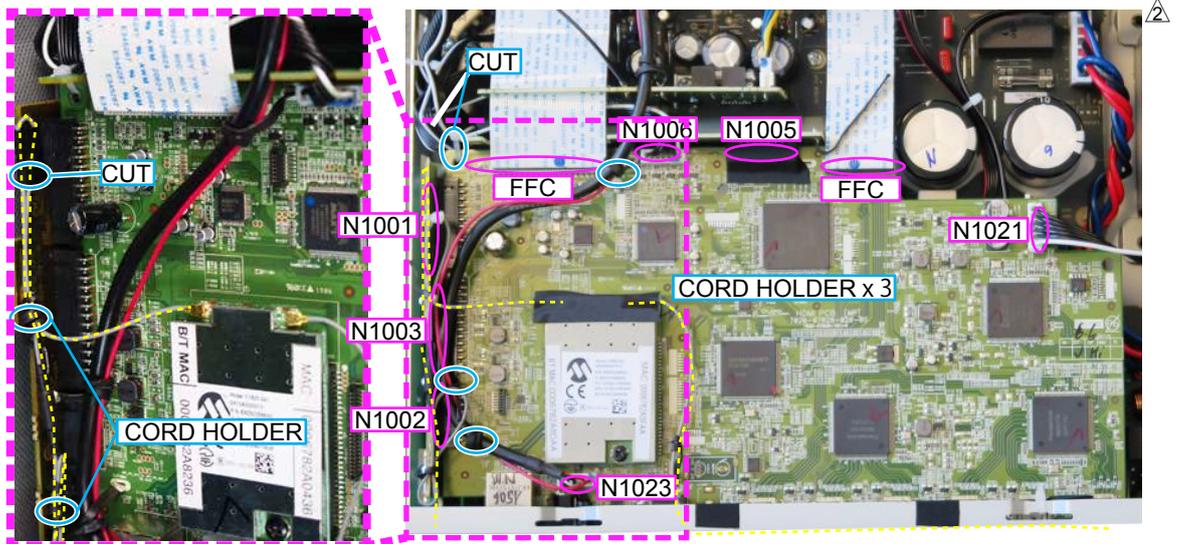
3. HDMI PCB

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

(1) Remove the screws.



(2) Remove the CORD HOLDERS. Cut the wire clamp, then remove the connector. Remove the FFC.



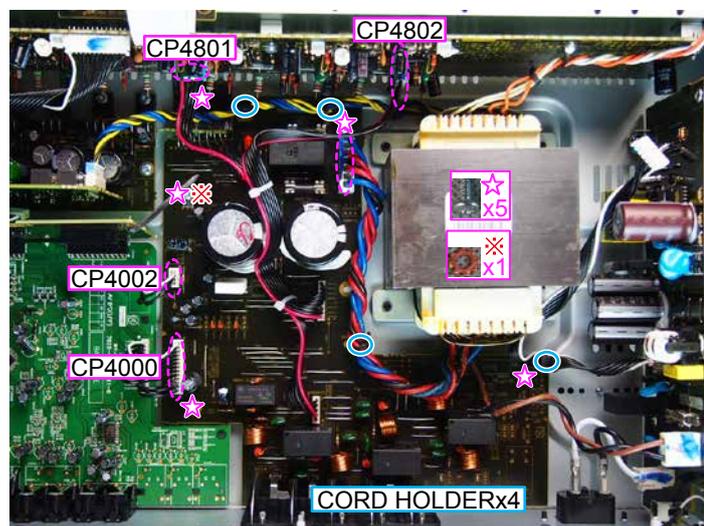
4. SPK PCB

Proceeding : **TOP COVER** → **DIGITAL PCB** → **SPK PCB**

(1) Remove the screws.



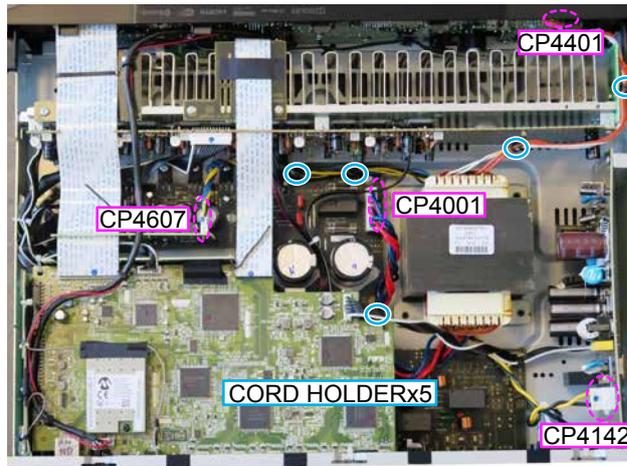
(2) Remove the screws. Remove the CORD HOLDERS and connector wires.



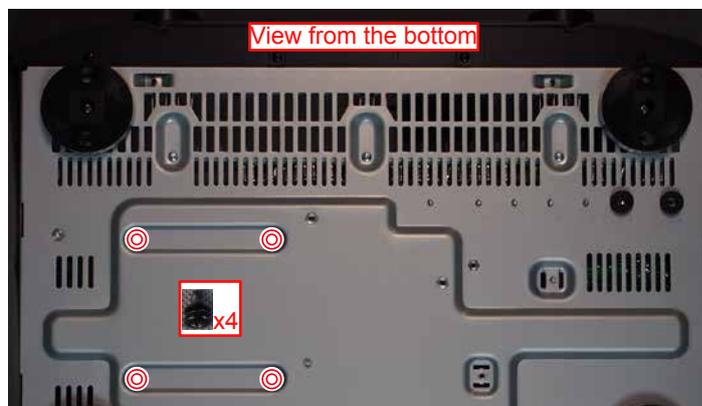
5. TRANS

Proceeding : **TOP COVER** → **DIGITAL PCB** → **TRANS**

(1) Remove the CORD HOLDERS and connector wires.



(2) Remove the screws.



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

6. SMPS PCB

Proceeding : **TOP COVER** → **SMPS PCB**

See "EXPLODED VIEW" for instructions on removing the SMPS PCB.

7. REG PCB

Proceeding : **TOP COVER** → **REG PCB**

See "EXPLODED VIEW" for instructions on removing the REG PCB.

8. AV PCB

Proceeding : **TOP COVER** → **AV PCB**

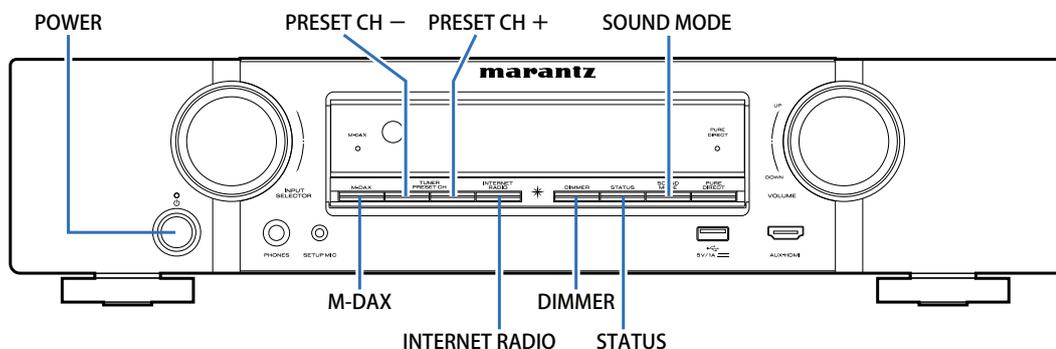
See "EXPLODED VIEW" for instructions on removing the AV PCB.

SPECIAL MODE

Special mode setting button

- ※ No. 1 - 6, 9 : While holding down buttons "A", "B" and "C" simultaneously, press the power button to turn on the power.
- ※ No. 7, 8 : While the power is on, hold down buttons "A" and "B" for at least 3 seconds .
- ※ No. 10 : While holding down buttons "A" and "B" simultaneously, insert the AC plug into the wall outlet to turn on the power.

No.	Mode	Button A	Button B	Button C	Descriptions
1	Version Display (u-COM / DSP Error Display)	DIMMER	STATUS	-	Displays the version of firmware such as the main firmware or DSP. Errors that have occurred are displayed. (See page 18)
2	Selecting the Mode for Service-related	PRESET CH +	STATUS	-	This is a display for turning on each service-related mode. Service-related modes: No. 2-1 - No. 2-5
2-1	Protection history display mode	↑	↑	-	Displays the protection occurrence history. (See page 40)
2-2	Check the Video/Audio path 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 page 23)
2-3	TUNER STEP Mode (U and N model only)	↑	↑	-	Enables reception STEP of the ANALOG TUNER to be changed. (See page 43)
2-4	Operation Info Mode	↑	↑	-	Displays the accumulated operating time of the unit, the number of times the power was switched on, and the number of occurrences of each protection. (See page 42)
3	User Initialization Mode	M-DAX	PRESET CH +	-	Initializes backup data. (Settings for the Installer Setup are not initialized.)
4	Factory Initialization Mode	PRESET CH +	INTERNET RADIO	-	Initializes backup data. (The settings for the Installer Setup is also initialized.)
5	PANEL / REMOTE LOCK Selection Mode	M-DAX	DIMMER	-	Start this unit in the PANEL/REMOTE LOCK selection mode so that PANEL LOCK and Remote Lock can be switched between ON and OFF. (See page 22)
6	Protection Pass Mode	DIMMER	STATUS	SOUND MODE	Enables the power to be turned on when protection detection is disabled. (See page 44)
7	CY920 Reboot Mode	DIMMER	SOUND MODE	-	Reboot CY920.(See page 44)
8	CY920 Initialization Mode	DIMMER	STATUS	-	Enter this mode only after replacing Flash for CY920 and rewriting the firmware. (See page 45)
9	USB Update Mode	DIMMER	SOUND MODE	-	Switches this unit to USB Update mode. (See page 49)
10	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 page 51)



1. Version Display Mode

1.1. Actions

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

1.2. Starting up

While holding down buttons "DIMMER" and "STATUS" simultaneously, press the power button to turn on the power. then press the "STATUS" button to display the information in section 1.3 on the display.

※ The version list is also displayed on GUI while the version is displayed on the display.

1.3. Display Order

- ① Firmware Package Version → ② Firmware Package Version
- ③ Main μ -com → ④ Main 1st Boot Loader → ⑤ DSP ROM → ⑥ Audio PLD → ⑦ GUI SFLASH
- ⑧ Ethernet 1st Boot Loader, Hardware ID → ⑨ Ethernet 2nd Boot Loader, Rhapsody Flag
- ⑩ Ethernet IMAGE → ⑪ Ethernet MAC ADDRESS information → ⑫ BT MAC ADDRESS information

① Model destination information :

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

② Firmware Package Version :

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

③ Main μ -com Version information :

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 GUI SFLASH :

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

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

⑧ Ethernet 1st Boot Loader, Hardware ID :

FLD		E	t	h	e	r	n	e	t		F	B	L				
-----	--	---	---	---	---	---	---	---	---	--	---	---	---	--	--	--	--

↓ Press "**STATUS**" button.

FLD	*	*	*	*	*	*	-	b	d								
-----	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--

⑨ Ethernet 2nd Boot Loader, Rhapsody Flag :

FLD		E	t	h	e	r	n	e	t		S	B	L				
-----	--	---	---	---	---	---	---	---	---	--	---	---	---	--	--	--	--

↓ Press "**STATUS**" button.

FLD	E	*	*	*	*	*	*	*	*	*	*	*	*	*	-	0	A
-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

⑩ Ethernet IMAGE :

FLD		E	t	h	e	r	n	e	t		I	M	G				
-----	--	---	---	---	---	---	---	---	---	--	---	---	---	--	--	--	--

↓ Press "**STATUS**" button.

FLD	I	*	*	*	*	*	*	*	*	*	*	*	*	*			
-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	--

⑪ Ethernet MAC ADDRESS information :

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

↓ Press "**STATUS**" button.

FLD		*	*	*	*	*	*	-	*	*	*	*	*	*			
-----	--	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	--

⑫ BT MAC ADDRESS information :

FLD	*	B	T		M	A	C		A	d	d	r	e	s	s		
-----	---	---	---	--	---	---	---	--	---	---	---	---	---	---	---	--	--

↓ Press "**STATUS**" button.

FLD		*	*	*	*	*	*	-	*	*	*	*	*	*			
-----	--	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	--

1.4. Error display

See the table below for descriptions of the displayed errors and countermeasures for these.

If multiple errors occur, only one item is displayed.

The priority order is ②, ③, ④, ⑤, ①.

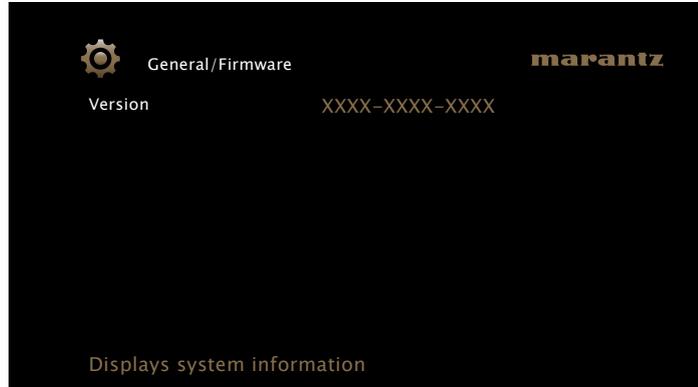
Condition	States	Display	TROUBLE SHOOTING
① Firm Check NG	The model name, brand name and region information written in the firmware are compared to the region settings in the PCB. This error is displayed if the information does not match. "▲" or "▼" is displayed as the first character if the firmware is not correct (see the illustrations on the right).	<pre> F I R M E R R O R ▲ M a i n : * * * * * * * * * * ▲ D S P : * * * * * * * * * * ▲ A u d i o P L D : * * * * * * * * * * ▲ G U I : * * * * * * * * * * </pre>	<ul style="list-style-type: none"> •Check the resistor for setting the region(R1202 / R1206, HDMI PCB). •Write the firmware for the correct region.
② GUI Serial Flash NG	If the Main CPU version is not supported by the GUI Serial Flash, "▼" is displayed as the first character of the GUI firmware version.	<pre> G U I V E R . E R R O R ▼ G U I : * * * * * * * * * * </pre>	<ul style="list-style-type: none"> •Check the firmware version.
③ DIR NG	This error is displayed if there is no response from the DIR.	<pre> D I R E R R O R 0 1 </pre>	<ul style="list-style-type: none"> •Check the DIR (U1016, HDMI PCB) and surrounding circuits.
④ DSP NG	<p>The DSP FLAG0 port does not enter "Hi" status while booting a DSP code even after resetting DSP.</p> <p>The DSP FLAG0 port does not enter "Hi" status before issuing a DSP command.</p> <p>Setting WRITE to "Lo" does not set ACK to "Hi" during DSP data reading.</p> <p>Setting REQ to "Lo" does not set ACK to "Lo" during DSP data reading.</p> <p>Setting WRITE to "Hi" does not set ACK to "Hi" during DSP data writing.</p> <p>Setting REQ to "Lo" does not set ACK to "Lo" during DSP data writing.</p>	<pre> D S P E R R O R 0 1 D S P E R R O R 0 2 D S P E R R O R 0 3 D S P E R R O R 0 4 D S P E R R O R 0 5 D S P E R R O R 0 6 </pre>	<ul style="list-style-type: none"> •Check the DSP (U1021, HDMI PCB) and surrounding circuits.
⑤ EEPROM NG	An error occurred in a checksum of the EEPROM(*** is a block address number).	<pre> E 2 P R O M E R R * * * </pre>	

1.5. Version Display in the Setup Menu

Follow the steps below to display the firmware information.

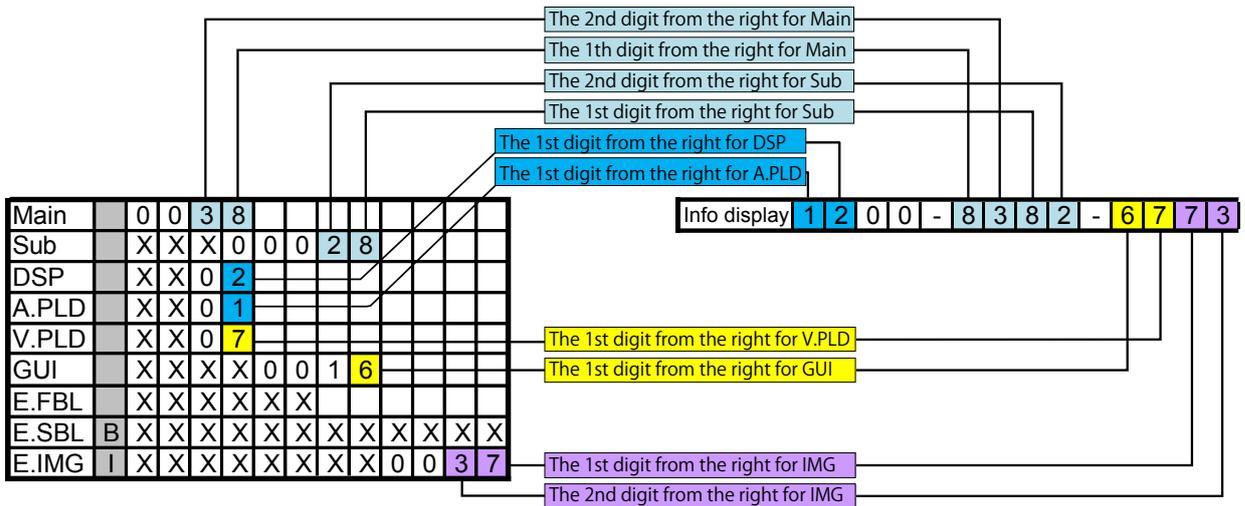
- (1) Press the "SETUP" button on the remote control.
- (2) Select "General - Information - Firmware".

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



GUI Image

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

Switch the PANEL LOCK and REMOTE LOCK modes between on and off.

2.2. Starting up

While holding down buttons "M-DAX" and "DIMMER" simultaneously, press the power button to turn on the power. Select the desired mode using the "TUNER PRESET CH+" button, then press the "STATUS" button to confirm.

2.3. Displaying and Selecting Each Mode

The information shown on the display switches each time the "TUNER PRESET CH+" button is pressed. Press the "STATUS" button to set the currently displayed mode and restart the device. The setting with "※" is selected for each mode.

①

FLD		F	P	/	V	O	L		L	O	C	K	*	O	N
-----	--	---	---	---	---	---	---	--	---	---	---	---	---	---	---

The buttons on the unit and the master volume knob does not function.



②

FLD		F	P		L	O	C	K							O	N
-----	--	---	---	--	---	---	---	---	--	--	--	--	--	--	---	---

The buttons on the unit does not function.



③

FLD		F	P		L	O	C	K							O	F	F
-----	--	---	---	--	---	---	---	---	--	--	--	--	--	--	---	---	---

The PANEL LOCK mode is turned off.



④

FLD		R	C		L	O	C	K							O	n
-----	--	---	---	--	---	---	---	---	--	--	--	--	--	--	---	---

The device cannot be operated by the remote control.



⑤

FLD		R	C		L	O	C	K					*	O	F	F
-----	--	---	---	--	---	---	---	---	--	--	--	--	---	---	---	---

The REMOTE LOCK mode is turned off.

3. Selecting the Mode 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.

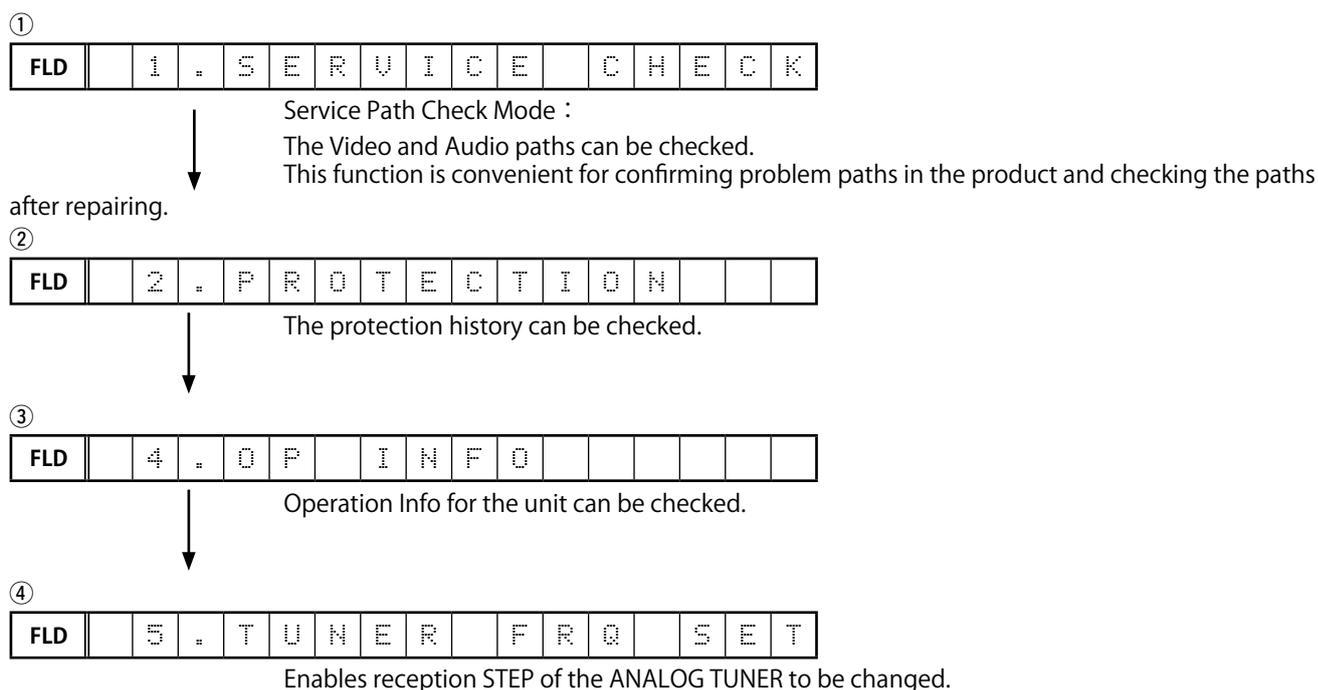
3.2. Starting up

While holding down buttons "ZONE2 SOURCE" and "STATUS" simultaneously, press the power button to turn on the power.

Select the desired mode using the "TUNER PRESET CH+" button, then press the "STATUS" button to confirm.

3.3. Displaying and Selecting Each Mode

The information shown on the display switches each time the "TUNER PRESET CH+" button is pressed. Press the "STATUS" button to set the currently displayed mode and restart the device.



3.3. Canceling the selected mode

Press the power button to turn off the power.

3.4. DIAGNOSTIC MODE (Service Path Check Mode)

3.4.1. Actions

This function is convenient for confirming problem paths in the product and checking the paths after repairing.
The Video and Audio paths can be checked.
The backup data is not rewritten.

3.4.2. Starting up

While holding down buttons "TUNER PRESET CH +" and "STATUS" simultaneously, press the power button to turn on the power.
Select "1.SERVICE CHECK", then press the "STATUS" button to activate the diagnostic mode.
The "TUNED", "STEREO" 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 to check

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

Press the ② or ③ button to select the previous or next item.

Actions	The unit			Remote control unit		
	① Audio ⇄ Video	② PREVIOUS	③ NEXT	① Audio ⇄ Video	② PREVIOUS	③ NEXT
Button	DIMMER	INTERNET RADIO	TUNER PRESET CH +	SLEEP	CURSOR ◀	CURSOR ▶

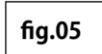
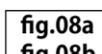
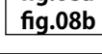
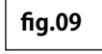
3.4.6. Audio system confirmation items

See the block diagram fig.XXth.

Paths to be confirmed		Display	Settings	What to confirm
1	Analog 	A01:ANALOG PASS	Input Source : CBL/SAT Input Mode : Analog (fixed) Sound mode : DIRECT MAIN ZONE : ON	• Analog input ⇒ Speaker output (Front L/R) (※ The input source can be switched to any source except CBL/SAT.)
2	DIGITAL (MAIN)  	A02:DIGITAL	Input Source : CBL/SAT Input Mode : DIGITAL (fixed) Sound mode : MULTI CH STEREO Speaker Config ALL Speaker = Small/SW = Yes(2ch) MAIN ZONE ON	• Digital input ⇒ Speaker output (Front L/R, Center, Surround L/R, Surround Back L/R) • Digital input ⇒ Pre OUT output (Front L/R, Center, Subwoofer) (※ The input source can be switched to any source except CBL/SAT.)
3	HDMI  	A05:HDMI	Input Source : CBL/SAT Input Mode : HDMI (fixed) Sound mode : STEREO MAIN ZONE : ON	• HDMI input ⇒ Speaker output (Front L/R) (※ The input source can be switched to any source except CBL/SAT.)
4	Analog AD (MAIN)  	A06:AD	Input Source : CBL/SAT Input Mode : Analog (fixed) Sound mode : MULTI CH STEREO Vol60dB Speaker Config ALL Speaker = Small/SW = Yes (2ch) MAIN ZONE : ON	• Analog input ⇒ Speaker output (Front L/R, Center, Surround L/R, Surround Back L/R) • Analog input ⇒ Speaker output, SW(20Hz) (Front L/R, Center, Surround L/R, Surround Back L/R) (※ The input source can be switched to any source except CBL/SAT.) (※ Volume 60dB is the value when Relative settings are used. The value is -20 when Absolute settings are used)

3.4.5. Confirmation items for the video system

See the block diagram fig.XXth.

Paths to be confirmed		Display	Settings	What to confirm
1	Analog Video pass 	V01:VIDEO PASS	Input Source : CBL/SAT MAIN ZONE ON	• CVBS input ⇒ CVBS output (※ The input source can be switched to any source except CBL/SAT.)
2	HDMI pass (MAIN ZONE) 	V03:HDMI PASS	Input Source : CBL/SAT MAIN ZONE ON	• HDMI input (MAIN function) ⇒ HDMI output(MAIN). (※ The input source can be switched to any source except CBL/SAT.)
3	HDMI CEC (Control Monitor : HDMI Monitor1) 	V04:HDMI CEC	Input Source : CBL/SAT HDMI Control : ON MAIN ZONE ON	• 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 input source can be switched to any source except CBL/SAT.) • The ARC path can also be checked (check this using the TV input source).
4	HDMI Audio (Audio : AVR)  	V05:H.AUDIO-AVR	Input Source : CBL/SAT HDMI Control : OFF HDMI Audio : AVR (if checking the audio output from AVR)	• HDMI input (PCM, DolbyDigital, DTS) ⇒ Speaker output. • HDMI input(HD audio) ⇒ Speaker output. (※ The input source can be switched to any source except CBL/SAT.)
5	HDMI Audio (Audio : TV) 	V06:H.AUDIO-TV	HDMI Audio : TV (if checking the audio output from TV)	• HDMI input (PCM, DolbyDigital, DTS) ⇒ HDMI output (audio output from connected TV) (※ The input source can be switched to any source except CBL/SAT.)
6	GUI 	V07:GUI MENU ON	Input Source : CBL/SAT Resolution : "AUTO", All sources Setup Menu : ON MAIN ZONE ON	• GUI display ⇒ HDMI output. (※ The input source can be switched to any source except CBL/SAT.)

DIAGNOSTIC PATH DIAGRAM

fig.01

ANALOG AUDIO DIAGRAM

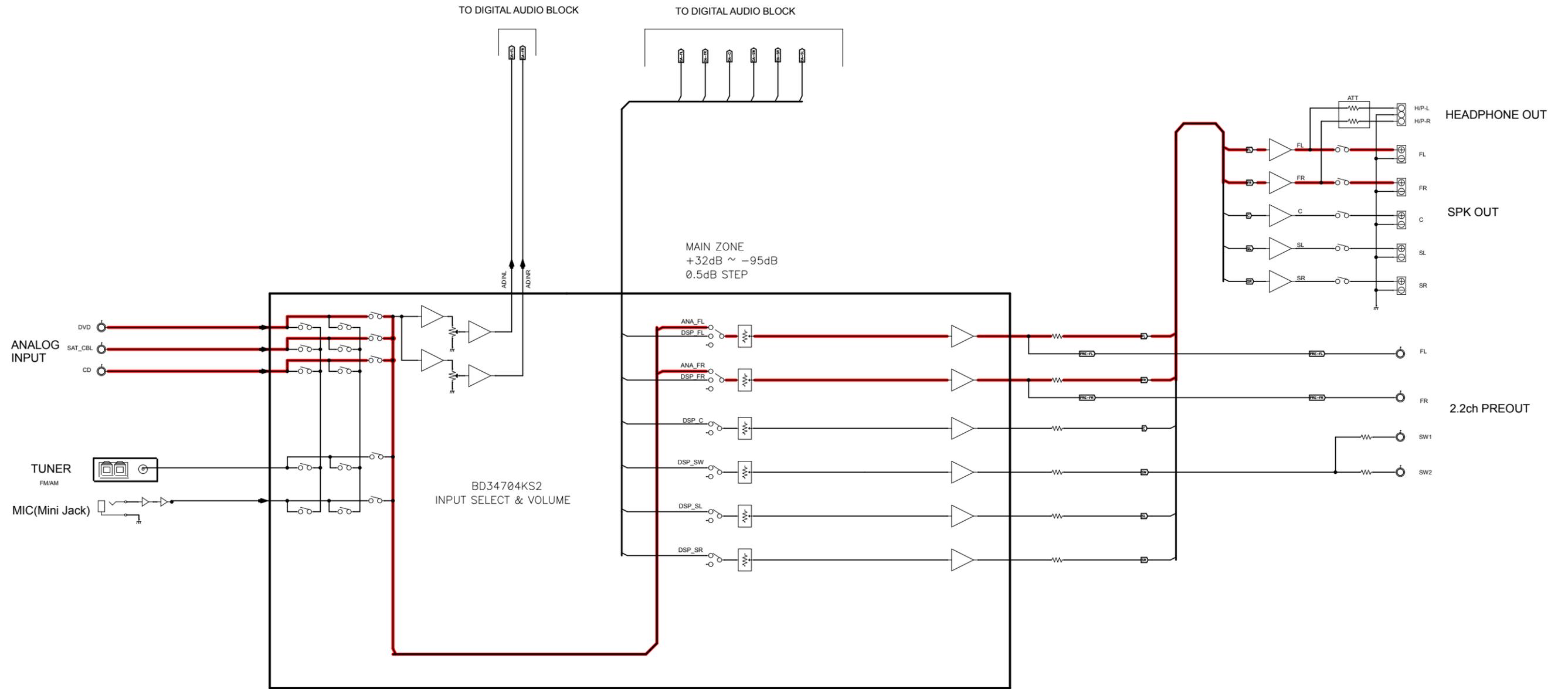


fig.02a

NR1506 DIGITAL AUDIO DIAGRAM

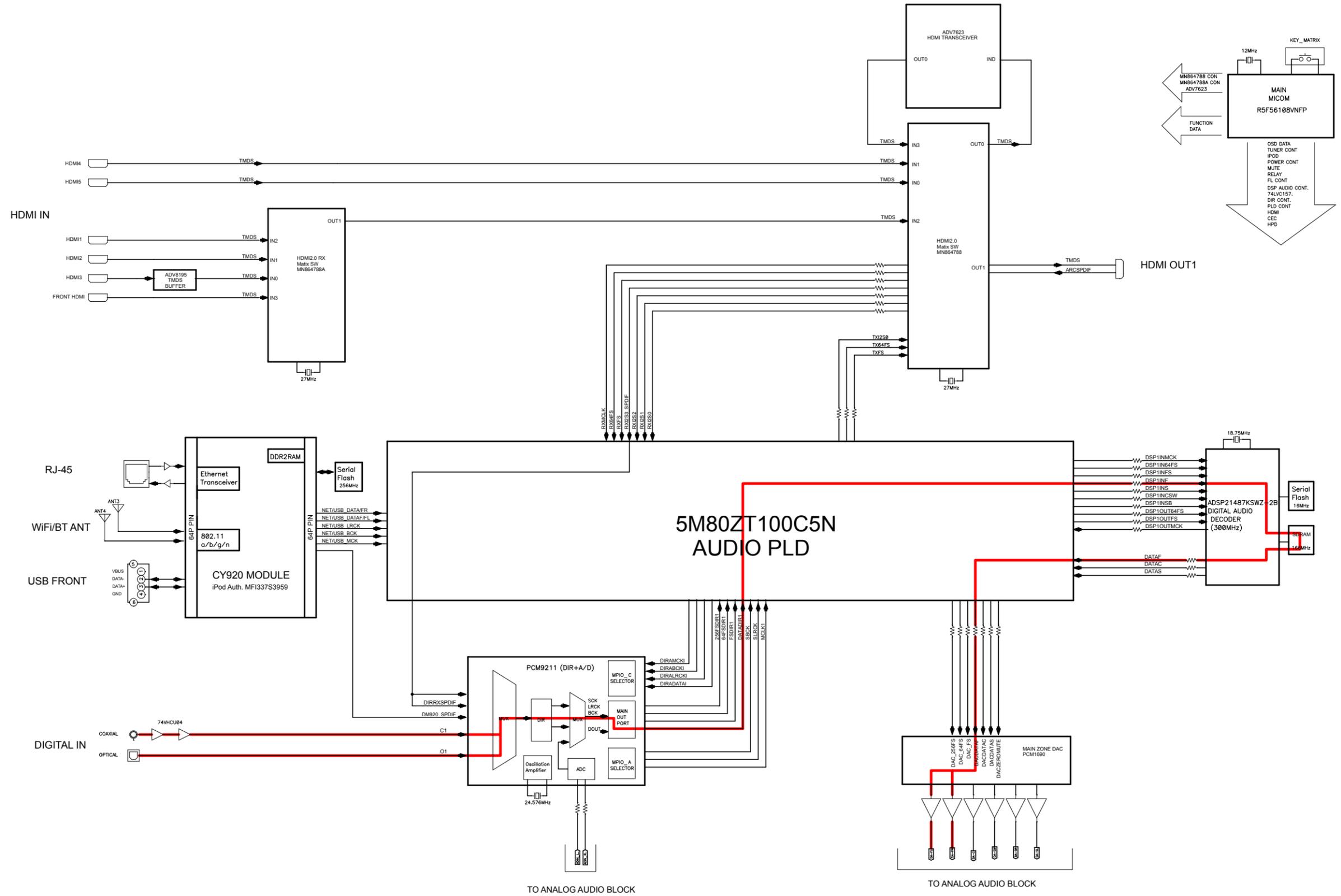


fig.02b

ANALOG AUDIO DIAGRAM

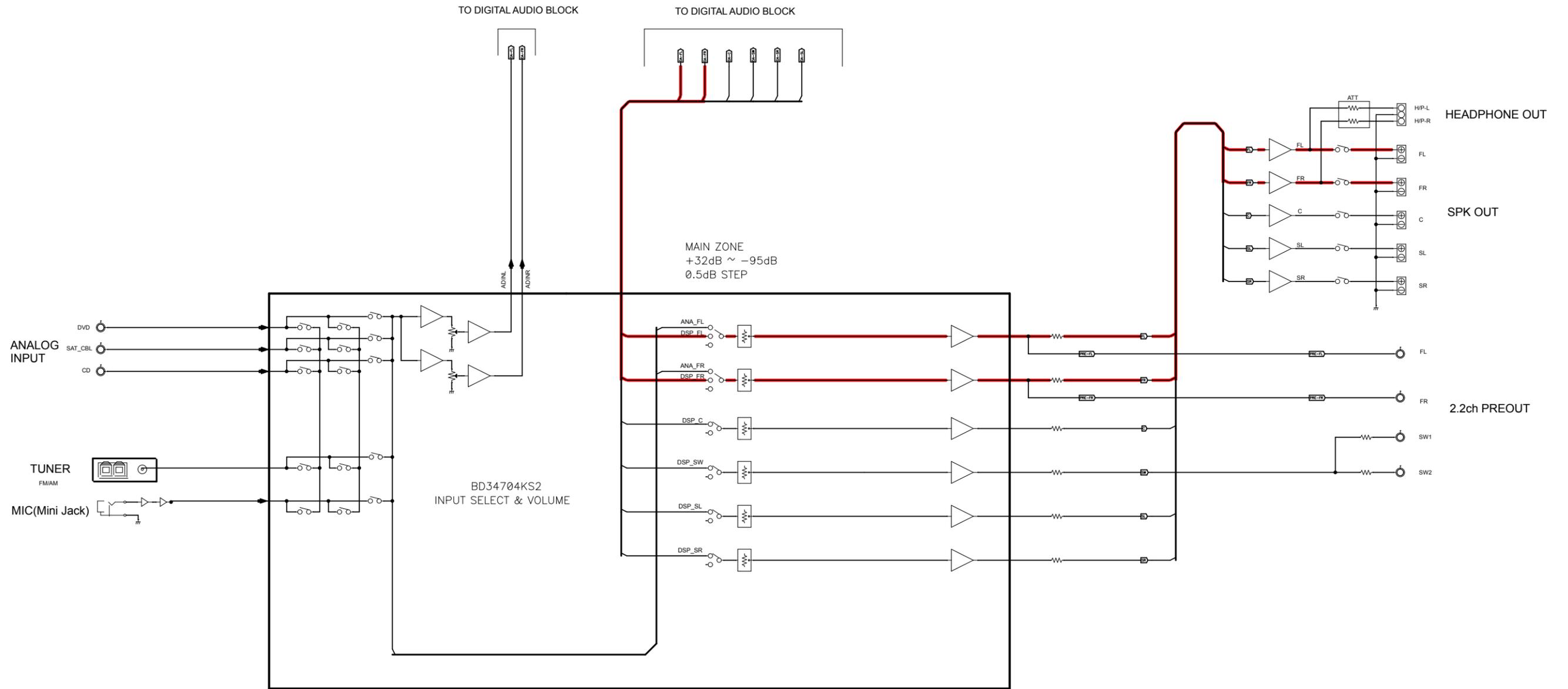


fig.03a

NR1506 DIGITAL AUDIO DIAGRAM

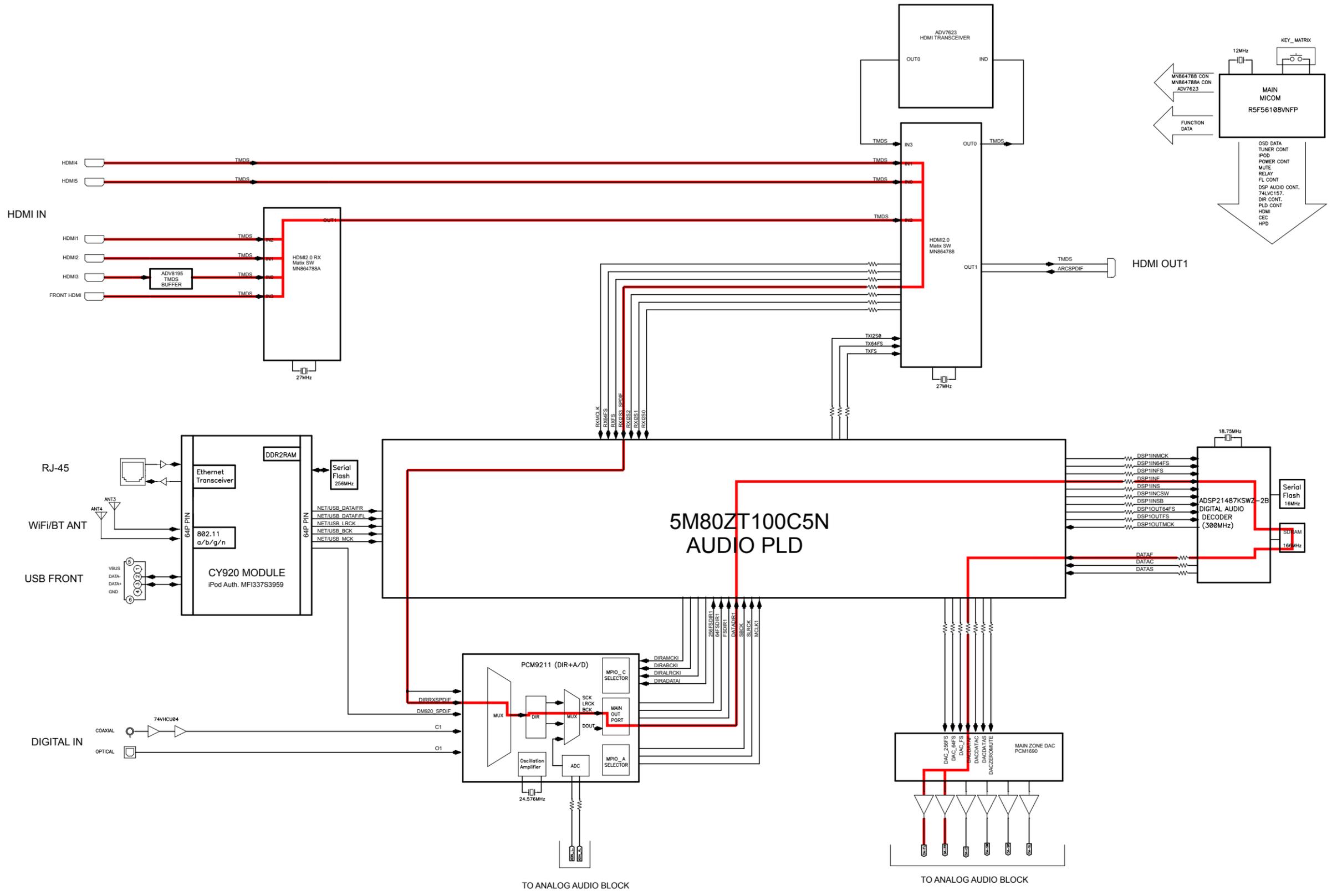


fig.03b

ANALOG AUDIO DIAGRAM

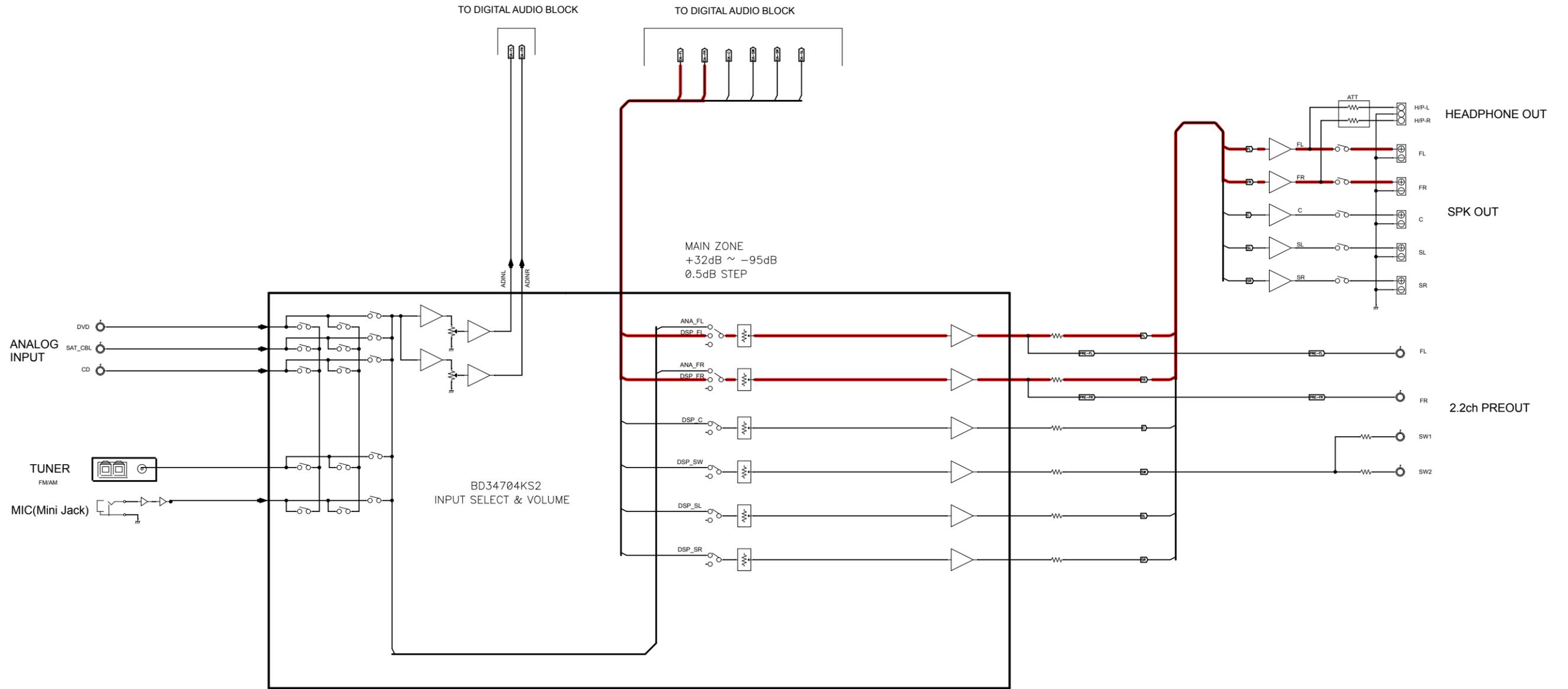


fig.04a

NR1506 DIGITAL AUDIO DIAGRAM

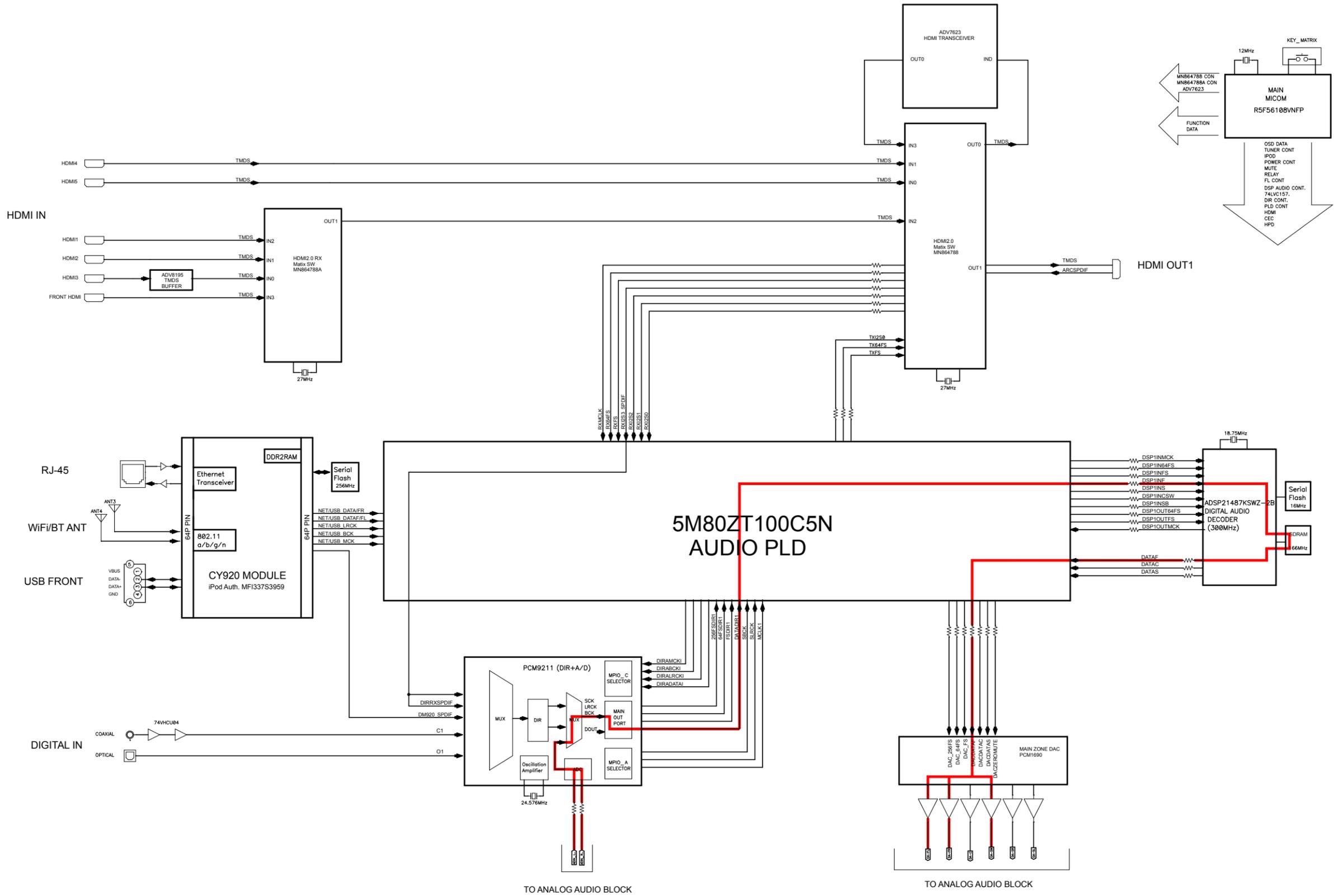


fig.04b

ANALOG AUDIO DIAGRAM

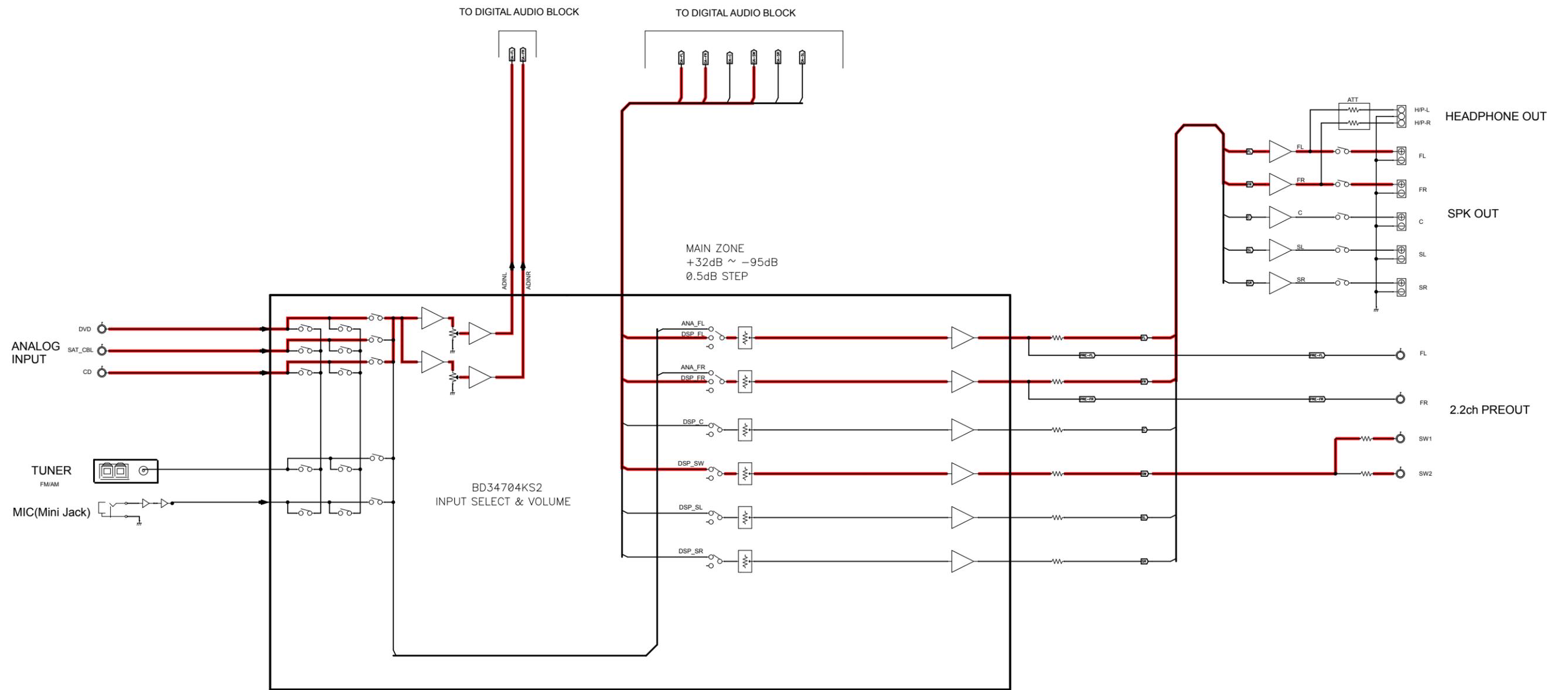


fig.05

VIDEO DIAGRAM

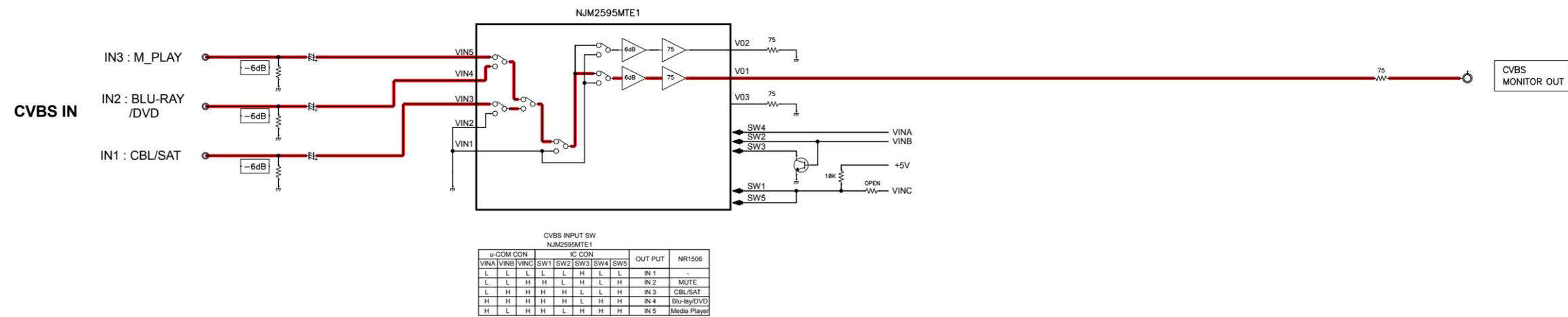
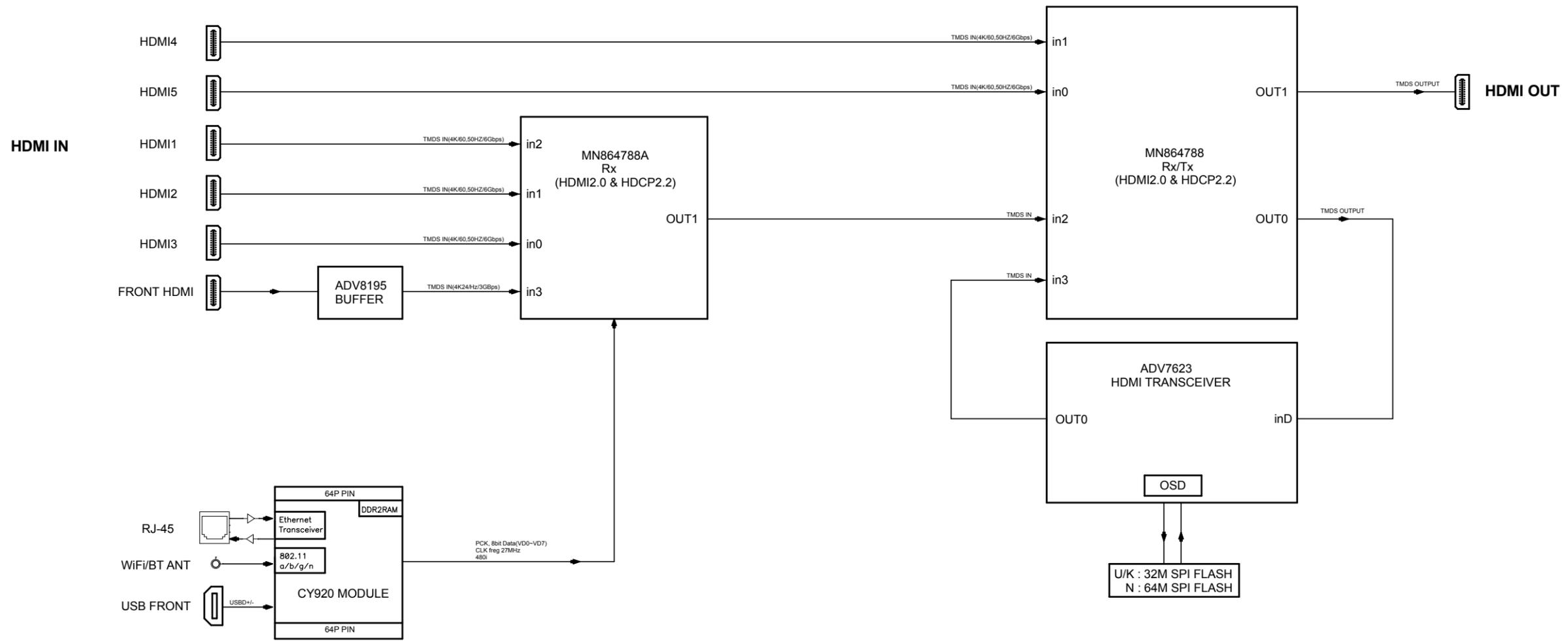
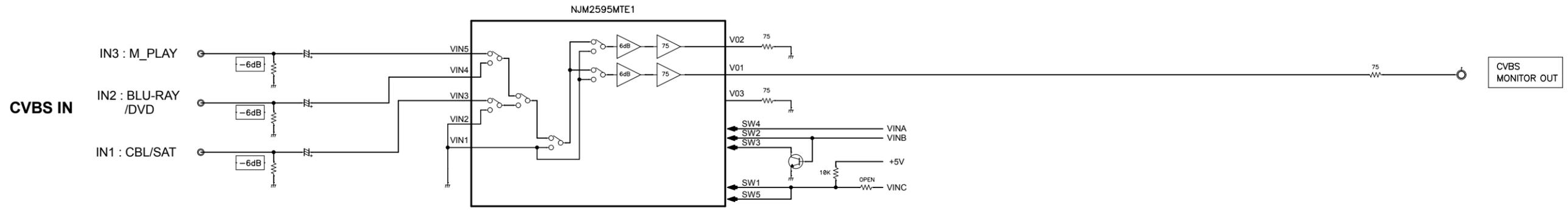
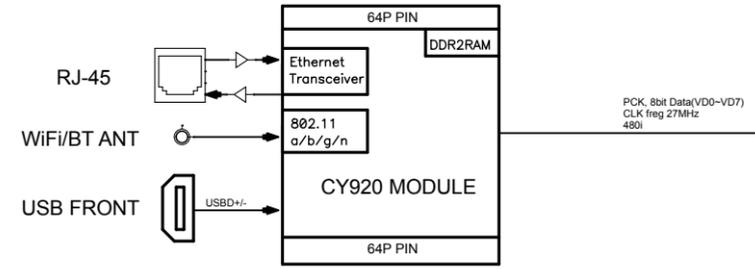
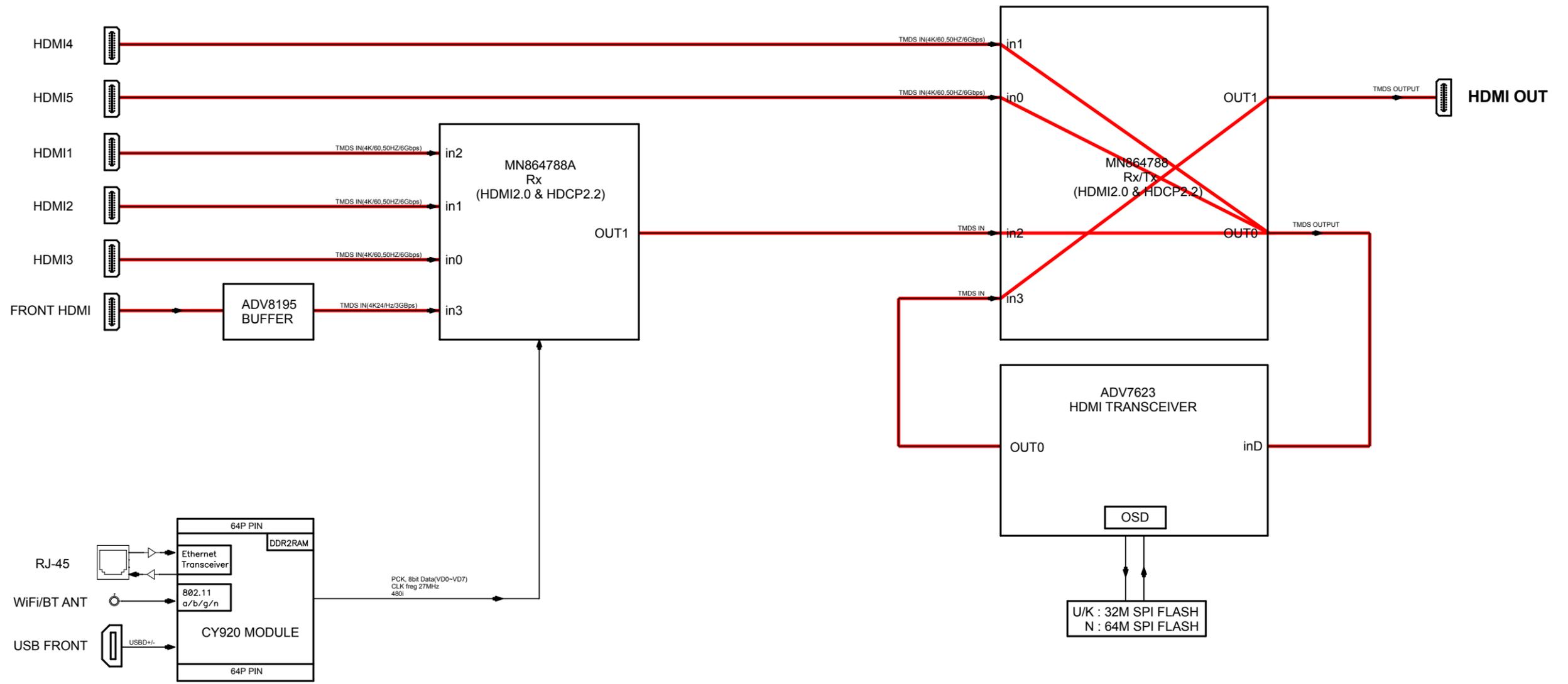


fig.06

VIDEO DIAGRAM

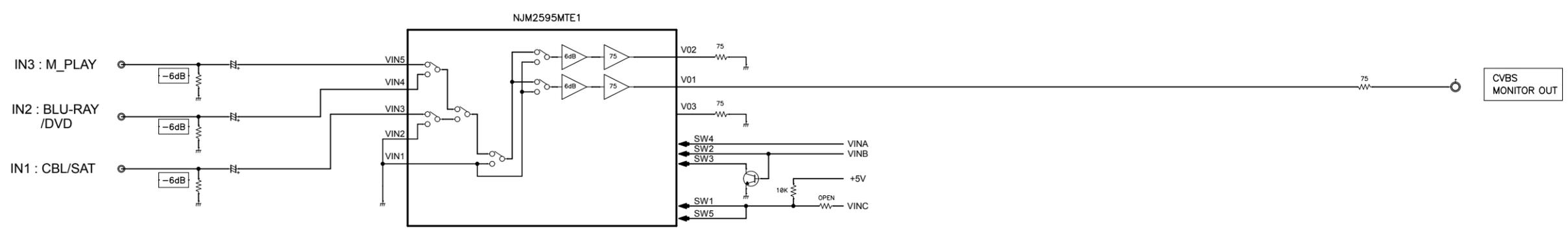
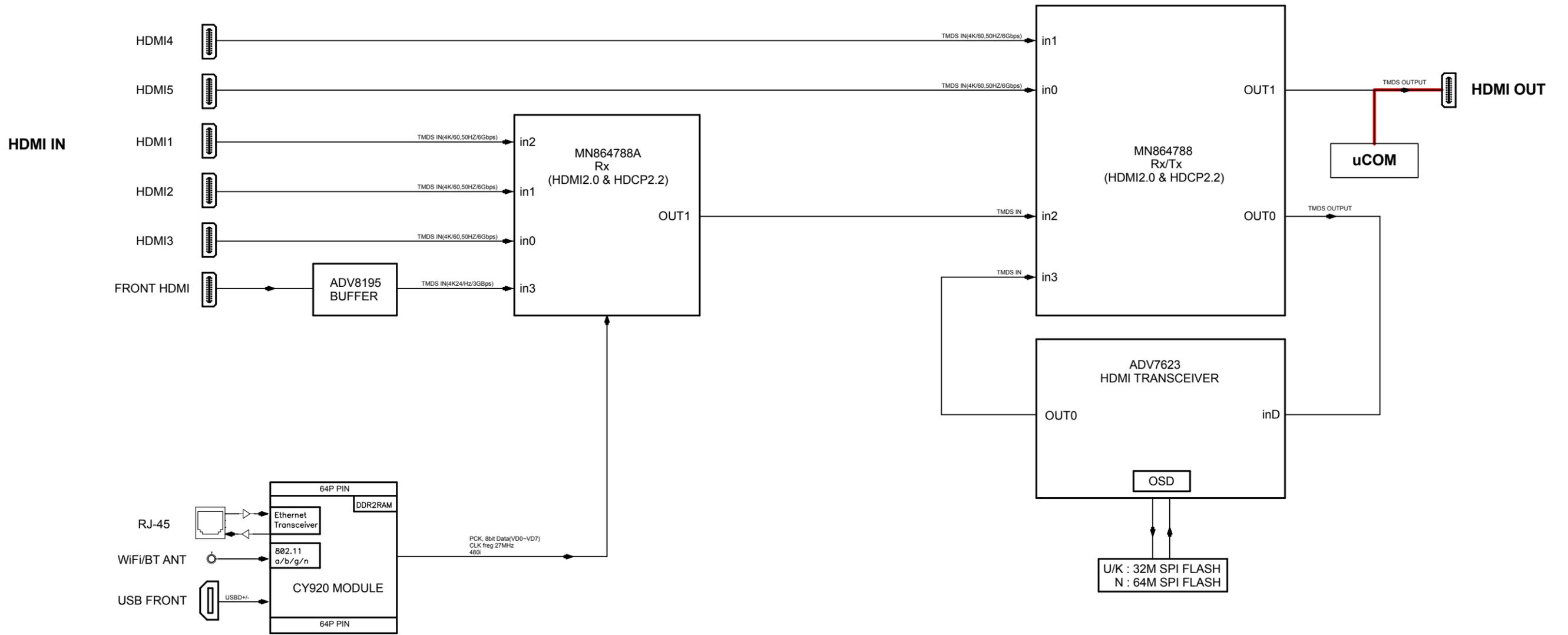


CVBS INPUT SW
NJM2595MTE1

u-COM CON			IC CON					OUT PUT	NR1506
VINA	VINB	VINC	SW1	SW2	SW3	SW4	SW5		
L	L	L	L	L	H	L	L	IN 1	-
L	L	H	H	L	H	L	H	IN 2	MUTE
L	H	H	H	H	L	L	H	IN 3	CBL/SAT
H	H	H	H	H	L	H	H	IN 4	Blu-ray/DVD
H	L	H	H	L	H	H	H	IN 5	Media Player

fig.07

VIDEO DIAGRAM



CVBS INPUT SW
NJM2595MTE1

u-COM CON			IC CON					OUT PUT	NR1506
VINA	VINB	VINC	SW1	SW2	SW3	SW4	SW5		
L	L	L	L	L	L	H	L	L	IN 1
L	L	H	H	L	H	L	H	L	MUTE
L	H	H	H	H	L	L	H	L	IN 3
H	H	H	H	H	L	H	H	L	IN 4
H	L	H	H	L	H	H	H	L	IN 5

fig.08a

NR1506 DIGITAL AUDIO DIAGRAM

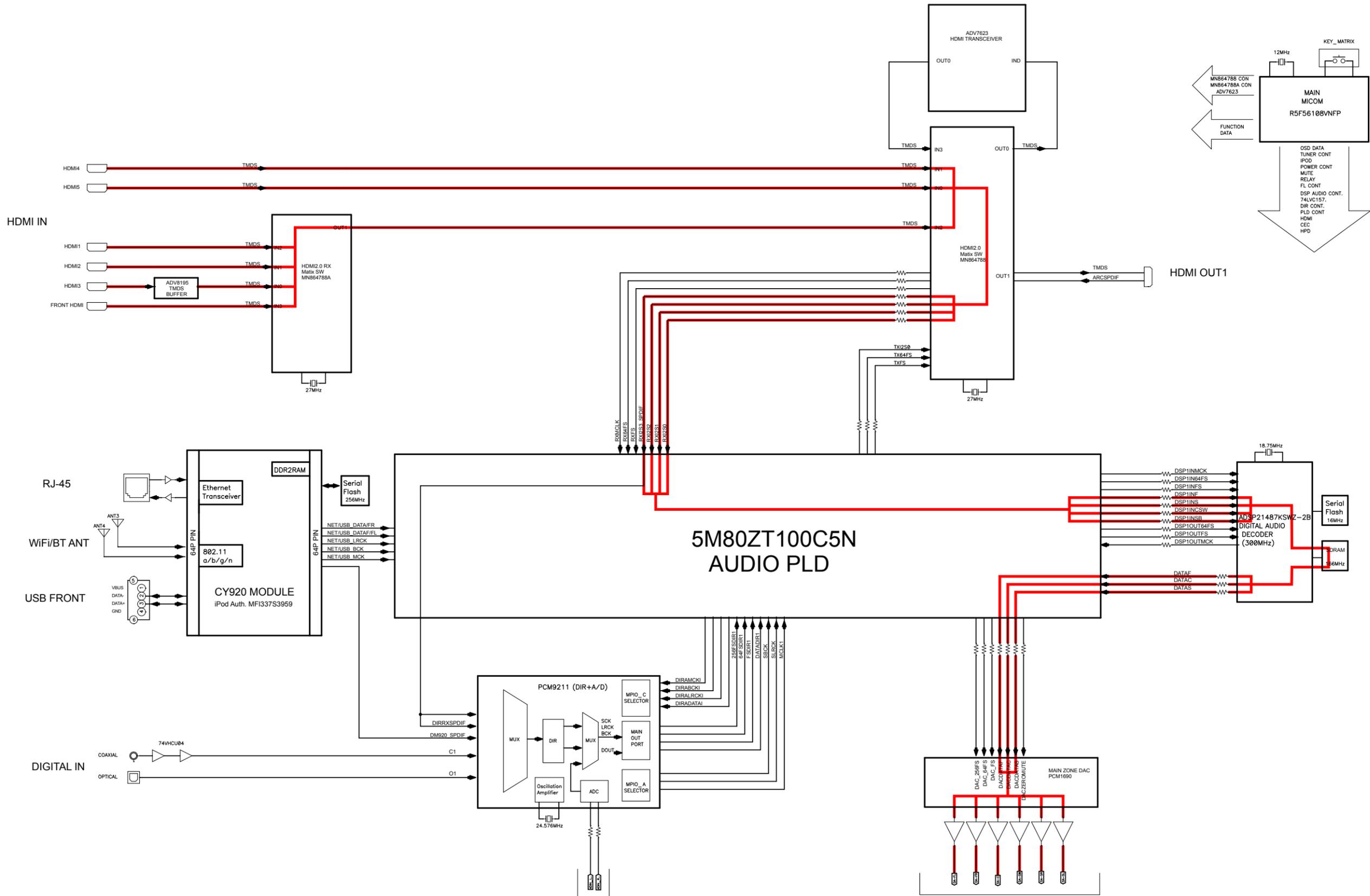


fig.08b

ANALOG AUDIO DIAGRAM

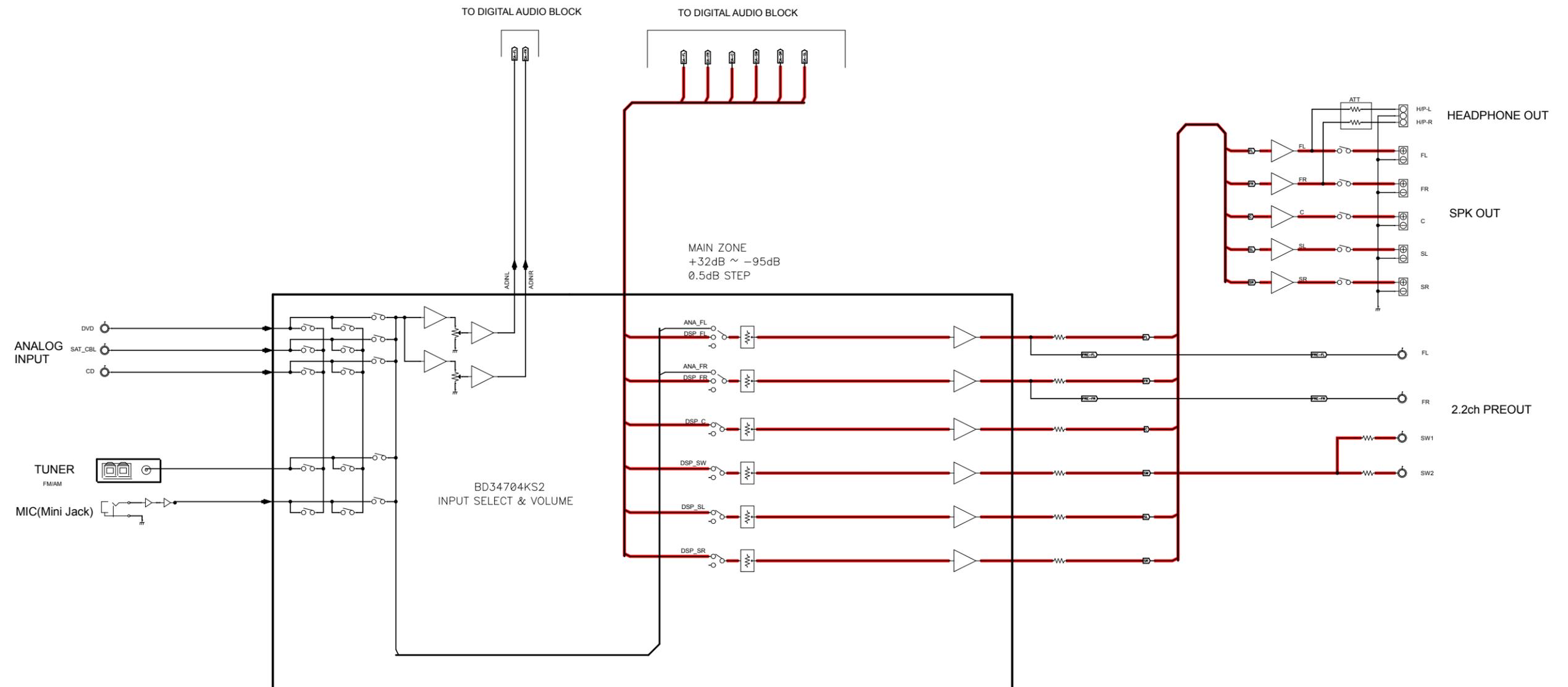


fig.09

NR1506 DIGITAL AUDIO DIAGRAM

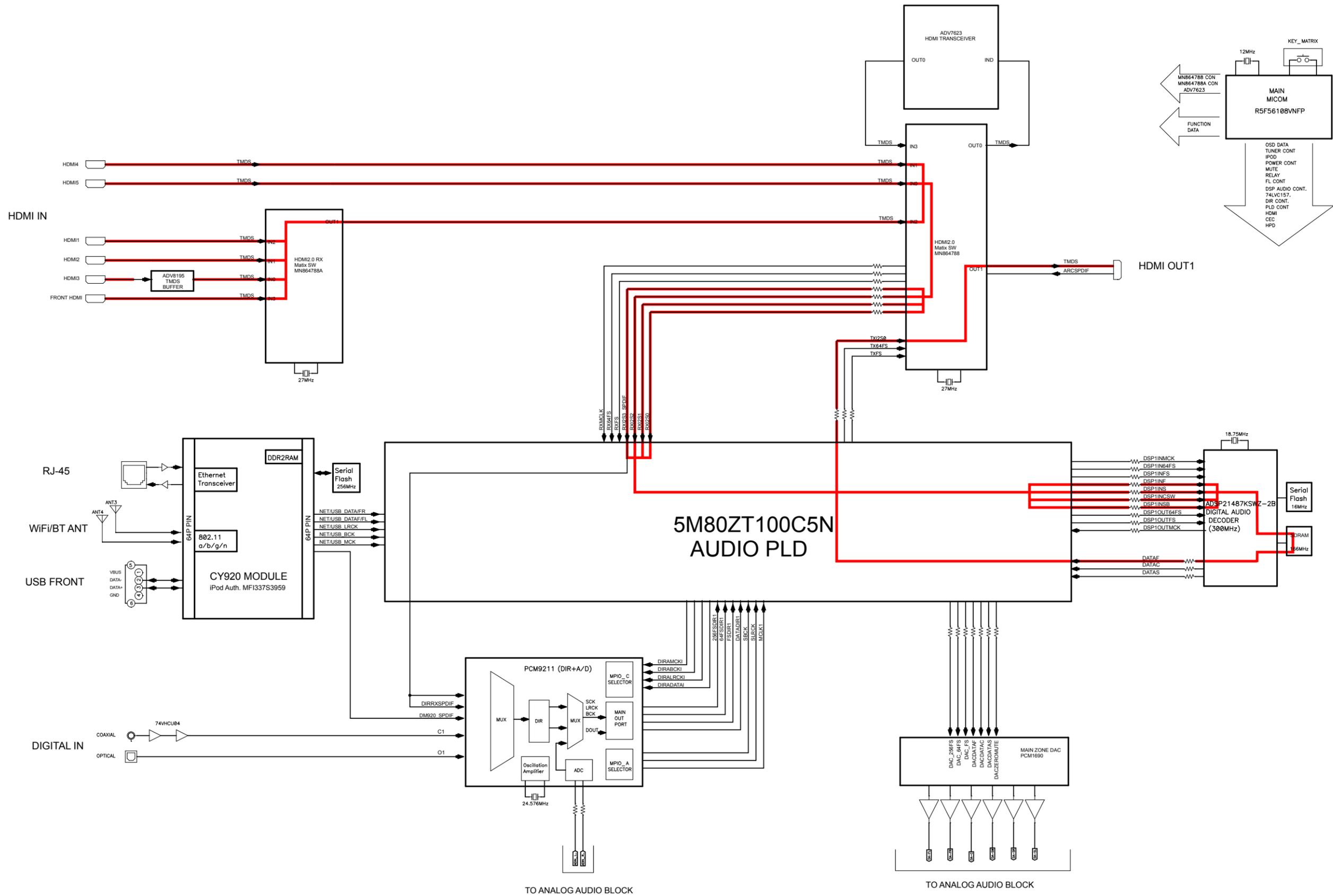
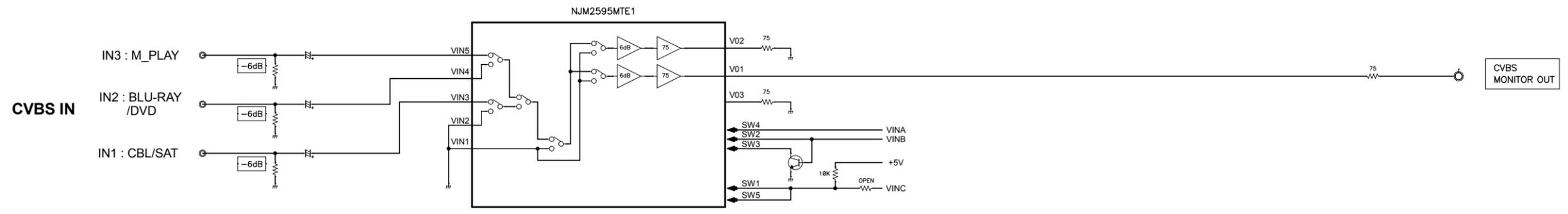
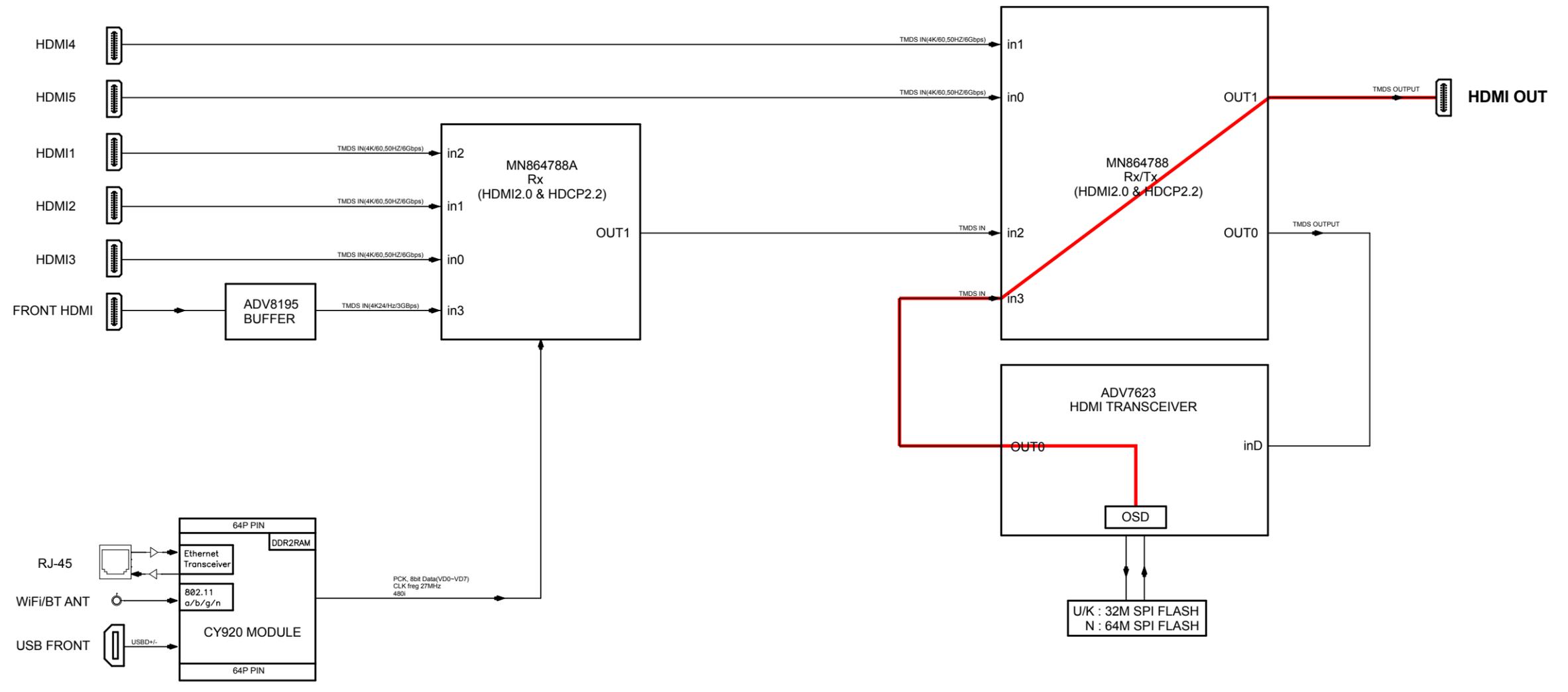


fig.10

VIDEO DIAGRAM



CVBS INPUT SW
NJM2595MTE1

u-COM CON			IC CON					OUT PUT	NR1506
VINA	VINB	VINC	SW1	SW2	SW3	SW4	SW5		
L	L	L	L	L	L	L	L	IN 1	-
L	L	H	H	L	H	L	H	IN 2	MUTE
L	H	H	H	H	L	L	H	IN 3	CBL/SAT
H	H	H	H	H	L	H	H	IN 4	Blu-ray/DVD
H	L	H	H	L	H	H	H	IN 5	Media Player

3.5. Protection History Display Mode

3.5.1. Actions

This mode enables the unit to record and display the event when the THERMAL, ASO or DC protection is activated. If protections have been activated multiple times, the latest protection operation is recorded.

3.5.2. Starting up

While holding down buttons "PRESET CH+" and "STATUS" simultaneously, press the power button to turn on the power.

Select the "2. PROTECTION" using the "TUNER PRESET CH+" button, then press the "STATUS" button to confirm.

3.5.3. Protection information and displays

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

(a) If no protections has occurred.

FLD	N	O		P	R	O	T	E	C	T								
-----	---	---	--	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--

(b) ASO / DC

(if the last protection is ASO)

FLD	P	R	T	:	A	S	O											
-----	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--	--	--

(if the last protection is DC)

FLD	P	R	T	:	D	C												
-----	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--	--	--	--

Cause : A short circuit occurred between the speaker terminals, or speakers with an impedance outside the rating were connected.

DC output of the power amplifier is abnormal.

Note : A short circuit occurred between the speaker terminals, or speakers with an impedance outside the rating were connected.

If the power is turned on in the abnormal state, protection is activated after around 6 seconds and the power is turned off.

(c) THERMAL (if the last protection is THERMAL(A) or THERMAL(B))

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

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

Cause : Abnormal heat sink temperature.

If the power is turned on in the abnormal state, protection is activated after around 2 minutes and the power is turned off.

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

FLD	:	C	U	R	R	E	N	T										
-----	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--	--

Cause : An overcurrent flowed in power amp.

Caution : These protections may also be activated due to other factors such as disconnection of connectors or operations around the microcomputer.

After viewing the above protection history, press the "STATUS" button to return to the normal display.

3.5.4. Clearing the Protection History

There are two ways to clear the protection history.

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

FLD	F	R	T	:	D	C										
-----	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--	--

↓ Press and hold the "**DIMMER**" button for 3 seconds.

FLD	F	R	T	:	C	L	E	A	R							
-----	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--

↓ The above message is displayed and the protection history is cleared.

FLD	N	O		P	R	O	T	E	C	T						
-----	---	---	--	---	---	---	---	---	---	---	--	--	--	--	--	--

- (b) Initialize this unit. (See "**Initializing This Unit**" [on page 11](#))

※ Use the method in **3.5.4.(a)** 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 being detected, the POWER LED flashes in red to warn you depending on the protection status as follows.

- (a) ASO/DC protection: Flashes at 0.5-second intervals (0.25 seconds lit, 0.25 seconds unlit)
- (b) THERMAL (A/B) protection: Flashes at 2-second intervals (1 seconds lit, 1 seconds unlit)
- (c) CURRENT protection: Flashes at 4-second intervals (2 seconds lit, 2 seconds unlit)

3.6. Operation Info Mode

3.6.1. Actions

This mode enables the unit to display the accumulated operating time, power on count and each protection count.

3.6.2. Starting up

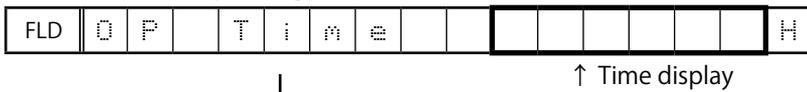
While holding down buttons "ZONE2 SOURCE" and "STATUS" simultaneously, press the power button to turn on the power.

Select the "4. OP INFO" using the "TUNER PRESET CH+" button, then press the "STATUS" button to confirm.

3.6.3. Operations

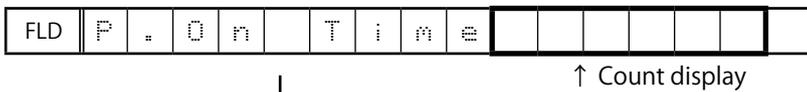
Press the "STATUS" button after starting up this device in Operation Info mode. The following information is displayed in the following order.

(a) Accumulated operating time



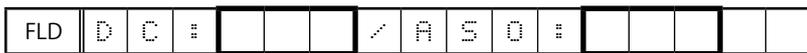
↓ "STATUS"

(b) Power on count



↓ "STATUS"

(c) DC / ASO Protection count



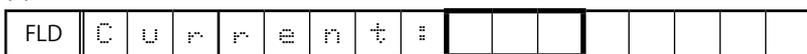
↓ "STATUS"

(d) Thermal Protection count



↓ "STATUS"

(e) Current 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

While holding down buttons "ZONE2 SOURCE" and "STATUS" simultaneously, press the power button to turn on the power.

Select the "5. TUNER FRQ SET" using the "TUNER PRESET CH+" button, then press the "STATUS" button to confirm.

3.7.3. Displays

Start up this unit in TUNER STEP mode, select the desired option using the "INTERNET RADIO" button, then enter using the "STATUS" button.

The following information is displayed in the following order.

(a) AM 9 kHz / FM 50 kHz is selected

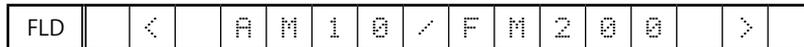


"INTERNET RADIO"



"ZONE2 SOURCE"

(b) AM10 kHz / FM 200 kHz is 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

4.1. Actions

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

4.2. Operations

While holding down buttons "**DIMMER**", "**STATUS**" and "**SOUND MODE**" simultaneously, press the power button to turn on the power.

The device returns to the normal display message after the following is displayed.

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

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

5. CY920 Reboot Mode

5.1. Actions

- The CY920 is restarted after CY920 hang up.
- The CY920 can be restarted even in the network standby setting.
("Setup menu" – "Network" – "IP Control" – "Always On")

5.2. Operations

- Turn the "**MAIN ZONE**" button on and set the input source to NETWORK.
- While the power is on, hold down buttons "**DIMMER**" and "**SOUND MODE**" for at least 3 seconds.
- Display during CY920 reboot

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

- Returns to the normal display.

NOTE:

- After rebooting CY920, the same operation is not accepted for 1 minute.
- Reception is prohibited during update, save and load.

6. CY920 Initialization Mode

6.1. Actions

The following items are initialized.

- (a) Favorites
- (b) Quick Select
- (c) Presets
- (d) Internet Radio Recently Played
- (e) Flickr contacts
- (f) User ID
- (g) Resume Playback station

6.2. Operations

· While the power is on, hold down buttons "**DIMMER**" and "**STATUS**" for at least 3 seconds.

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						
-----	--	--	--	--	---	---	---	---	---	---	--	--	--	--	--	--

JIG FOR SERVICING

Use the following jigs (extension cable kit) when repairing the PCBs.
Order with your dealer for the jigs your dealer if necessary.

CAUTION : Incorrect connections may cause malfunction.

• Connection of Jig for HDMI PCB

---Items to Be Prepared---

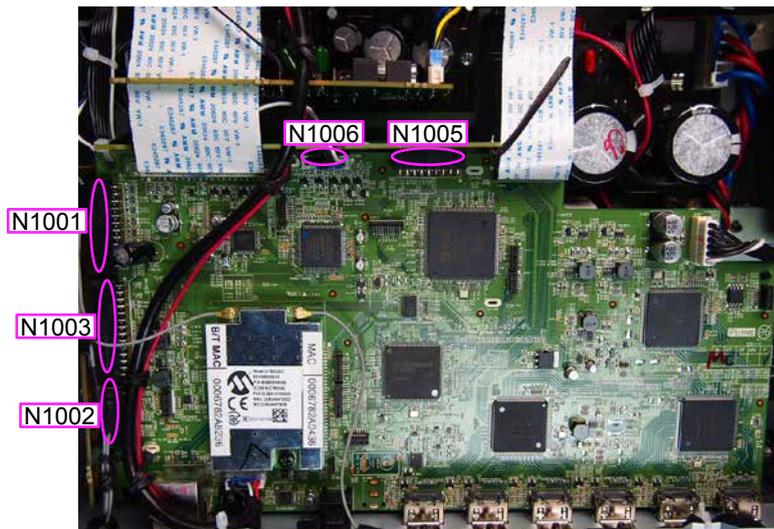
8U-110084S	:	EXTENSION UNIT KIT	:	1Set
8U-110136S	:	EXTENSION UNIT KIT	:	1Set
Insulation sheet (Not supplied)	:		:	1 sheet
Ground lead (Not supplied)	:		:	2 pc

---Procedures---

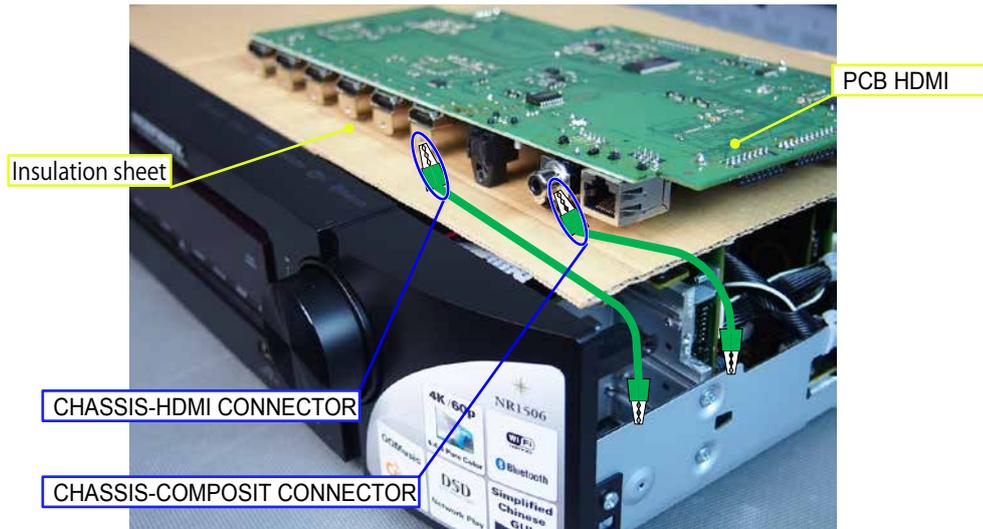
(1) Remove the screws.



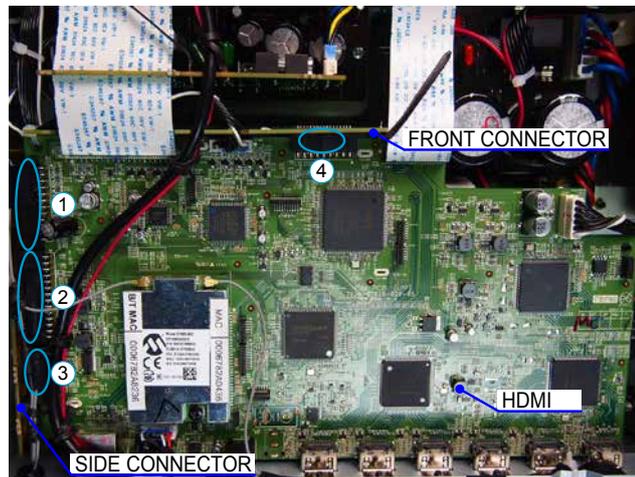
(2) Remove the connector PCB.



- (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.



Board-to-Board Connections

No.	Pin	Ref. No.	PCB		Ref. No.	PCB
①	23pin	CP4603	SIDE CONNECTOR	↔	N1001	HDMI
②	27pin	CP4604	SIDE CONNECTOR	↔	N1003	HDMI
③	15pin	CP4607	SIDE CONNECTOR	↔	N1002	HDMI
④	17pin	CP4621	FRONT CONNECTOR	↔	N1005	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	Procedure after Replacement	Remark
HDMI	U1029	MX25L3206EM2I-12G	B	SOFTWARE: GUI ROM
HDMI	U1013	R5F56108VNFP	B	SOFTWARE: Main
HDMI	U1017	5M80ZT100C5N	B	SOFTWARE: AUDIO PLD
HDMI	U1023	MX25L1606EM2I-12G	B	SOFTWARE: DSP ROM
MODULE	57	CY920 MODULE (CY920 Model)	D	SOFTWARE : SBL.bcd / IMG.bcd ※1
HDMI	U1035	MX25L25635FMI-10G (CY920 Model)	C	SOFTWARE : IMG.bcd ※1

※1 The firmware for the CY920 MODULE is written to the INTERNAL ROM of the CY920 and the IC501 (EXTERNAL ROM) of the DIGITAL circuit board.

"**CY920 Error**" appears in the display if the DIGITAL PCB or the CY920 is replaced, as this results in the version of the INTERNAL ROM differing from that of the EXTERNAL ROM.

In this case, see "**Update Procedure in the Event of a CY920 Error**".

(This does not require special operations such as pushing multiple buttons at the same time. The firmware also cannot be updated via DPMS.)

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 via USB

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

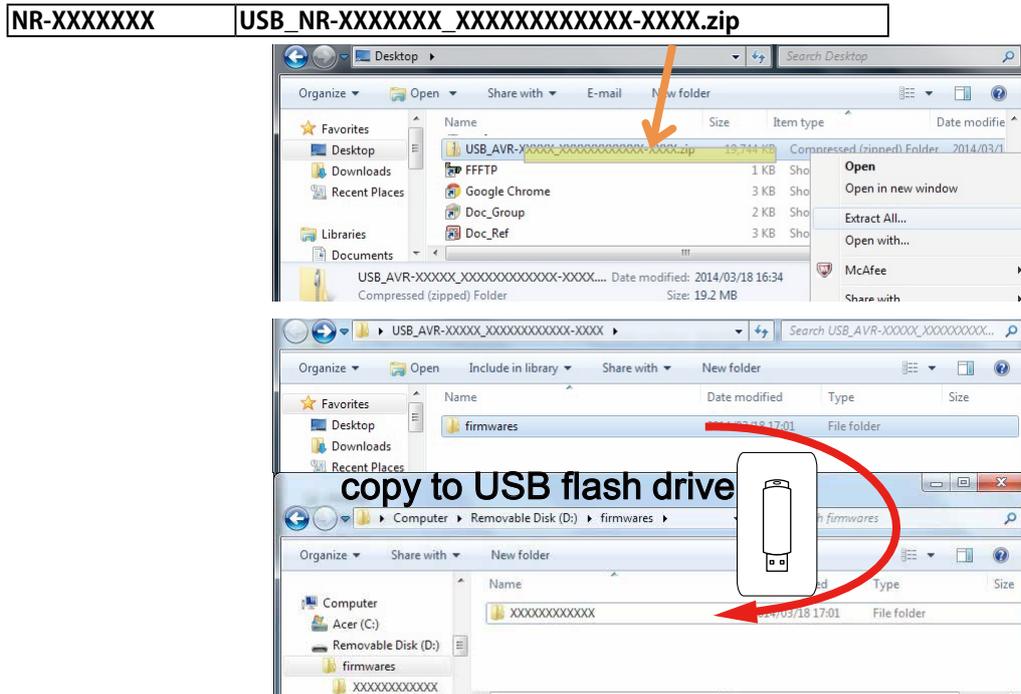
1.1. Connecting to the USB Memory

(1) Preparation

- Use a memory that supports USB2.0.
- 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. Unzipping the Downloaded File

Unzip the downloaded file on your computer.



The "**firmwares**" folder is created upon unzipping the file.

Copy that folder to USB flash drive.

The "**firmwares**" folder must be in the root directly of the 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
NR1506 U	North America (U)	100100390100
NR1506 N	Europe (N)	100100390200
NR1506 K	China (K)	100100390500

+ firmwares

+ X00100XXXXXX

+ APLD.bin

+ DSP.bin

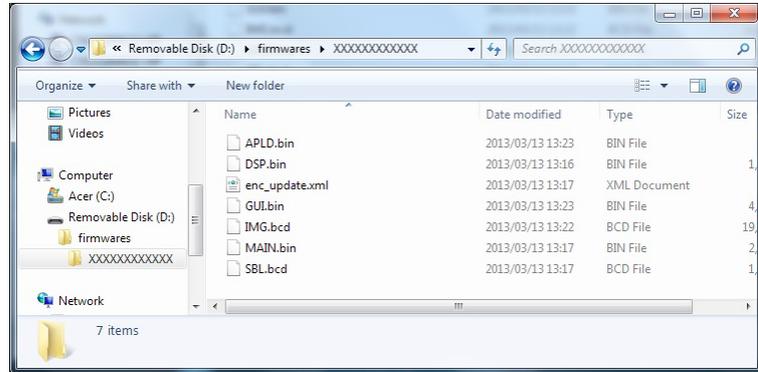
+ enc_update.xml

+ GUI.bin

+ IMG.bcd

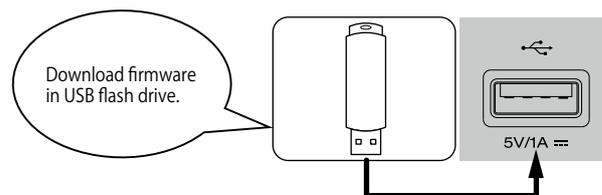
+ MAIN.bin

+ SBL.bcd



1.4. Insert the USB memory into the USB port.

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



1.5. Start the update.

While holding down buttons "SOUND MODE" and "DIMMER" simultaneously, press the power button to turn on the power.

1.6. Display during USB update

After around half minutes, display shows the following message.

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.

When the update is completed, the following message appears on the display, then the unit returns to the normal status.

Display

FLD	U	P	d	a	t	i	n	g	C	o	n	p	l	e	t	e
-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

---Cautions on Firmware Update---

- Never remove the USB memory before the update is finished.
- Never turn off the power before the 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.

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

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

While holding down buttons the "**SOUND MODE**" and "**DIMMER**" buttons simultaneously, insert the AC plug to turn the power on.

1.9.3. The firmware update finishes.

Returns to the normal status after update is completed.

1.10. Update Procedure in the Event of a CY920 Error

1.10.1. Actions

Perform the following update procedure if "**CY920 Error**" appears in the display when the power is turned on after replacing the DIGITAL PCB or the CY920.

1.10.2. Operations

- (1) Remove the AC power plug and turn off the power.
- (2) Copy the update file to a USB memory device and insert the USB memory device in the USB port.
- (3) Insert the AC plug and turn on the power.
- (4) The update starts automatically after "**CY920 Error**" appears in the display.

Display

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

- (5) The firmware update finishes.

Display

FLD	U	P	d	a	t	e		C	o	n	p	l	e	t	e	
-----	---	---	---	---	---	---	--	---	---	---	---	---	---	---	---	--

The unit restarts after the update is finished.

- (6) After the update, check that "**CY920 Error**" is no longer displayed, and check the version of the new firmware. See "**1. Version Display Mode**" (page 18).

1.10. About the error codes

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

Error Code	USB Update Error Display	Details of Error code	Remedies
01	ConnectionFailed01	Unable to detect USB.	Disconnect and reconnect the USB memory.
02	FileNotFound02	No Firmware File in USB.	Make sure that the Firmware File is in the USB memory.
03	NotMatchFirm03	The Firmware File in the USB does not support your model and area.	Make sure that the model name and area are supported by the Firmware File.
04	ConnectionFailed04	Failed to obtain the entire Firmware information.	Start the USB Update again.
05	ConnectionFailed05	Time Out while obtaining the entire Firmware information.	Start the USB Update again.
08	ConnectionFailed08	Error notification received while requesting the Firmware Info.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
09	ConnectionFailed09	Time Out while obtaining Firmware information.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
0A	ConnectionFailed0A	Unable to detect USB for Firmware Download.	Disconnect and reconnect the USB memory.
0B	FileNotFound0B	No Firmware File for Firmware Download.	Make sure that the Firmware File is in the USB memory.
0C	ConnectionFailed0C	Received value with the invalid Package Version.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
10	UpdatingFailed10	No Update Packet received from CY920 (Time Out).	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
11	UpdatingFailed11	Abnormal data in Update Packet received from CY920 (CRCError).	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
12	UpdatingFailed12	Abnormal data in Update Packet received from CY920 (PacketNo-Error).	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
13	EraseFailed13	Failed in Block Erase before rewriting Main.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
14	UpdatingFailed14	Failed in Block Erase while rewriting Main.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.

Error Code	USB Update Error Display	Details of Error code	Remedies
15	Update Check NO 15	Error in Verify after rewriting Main (Check Sum Error).	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
16	Updating fail 16	Setup failure of the XModem transfer method.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
20	Connection Fail 20	Unable to detect USB after SBL Mode.	Disconnect and reconnect the USB memory.
21	Files Not Found 21	No Firmware File in USB after SBL Mode.	Make sure that the Firmware File is in the USB memory.
22	Not Match Firm 22	After SBL Mode, the Firmware File in the USB does not support your model and area.	Make sure that the model name and area are supported by the Firmware File.
23	Connection Fail 23	Failed to obtain the entire Firmware information after SBL Mode.	Start the USB Update again.
24	Connection Fail 24	Time Out while obtaining the entire Firmware information after SBL Mode.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
25	Connection Fail 25	Failed to transit to SBL Mode.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
26	Download fail 26	Time Out in Download (writing to SDRAM) for Firmware Download.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
27	Connection fail 27	Failed to write to EEPROM after SBL Mode.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
36	Connection Fail 36	Unable to detect USB.	Disconnect and reconnect the USB memory.
37	Files Not Found 37	No Firmware File in USB.	Make sure that the Firmware File is in the USB memory.
38	Not Match Firm 38	The Firmware File in the USB does not support your model and area.	Make sure that the model name and area are supported by the Firmware File.
39	Connection Fail 39	Time Out in USB Check.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
3A	Connection Fail 3A	Unable to detect USB for Firmware Download.	Disconnect and reconnect the USB memory.
3B	Files Not Found 3B	No Firmware File for Firmware Download.	Make sure that the Firmware File is in the USB memory.

Error Code	USB Update Error Display	Details of Error code	Remedies
3C	U p d a t i n g F a i l 3 C	Error notification received while requesting the Firmware Info.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
3D	U p d a t i n g F a i l 3 D	Time Out while obtaining Firm-ware information.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
3F	C o n n e c t i o n F a i l 3 F	Failed to transit to SBL Mode.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
50	C o n n e c t i o n F a i l 5 0	Unable to detect USB.	Disconnect and reconnect the USB memory.
51	C o n n e c t i o n F a i l 5 1	No Firmware File in USB.	Make sure that the Firmware File is in the USB memory.
52	N o t M a t c h F i r m 5 2	The Firmware File in the USB does not support your model and area.	Make sure that the model name and area are supported by the Firmware File.
54	U p d a t i n g F a i l 5 4	Error notification received while requesting the Firmware Info.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
55	U p d a t i n g F a i l 5 5	Time Out while obtaining Firm-ware information.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
56	C o n n e c t i o n F a i l 5 6	Unable to detect USB for Firm-ware Download.	Disconnect and reconnect the USB memory.
57	F i l e s N o t F o u n d 5 7	No Firmware File for Firmware Download.	Make sure that the Firmware File is in the USB memory.
5A	C o n n e c t i o n F a i l 5 A	Invalid DeviceID in response or no response from Sub for the "C" command.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
5B	U p d a t i n g F a i l 5 B	NACK received in response or no response from Sub for the "L" command.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
5C	U p d a t i n g F a i l 5 C	No Update Packet received from CY920 (Time Out).	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
5D	U p d a t i n g F a i l 5 D	Abnormal data in Update Packet received from CY920 (CRCError).	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
5E	U p d a t i n g F a i l 5 E	Abnormal data in Update Packet received from CY920 (PacketNo-Error).	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.

Error Code	USB Update Error Display	Details of Error code	Remedies
5F	U P D A T E F A I L U R E	Setup failure of the XModem transfer method.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
60	U P D A T E F A I L U R E	NACK received in response or no response from Sub for the "P" command.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
61	U P D A T E C H E C K S U M E R R O R	Mismatched Check Sum in response or no response from Sub for the "I" command.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
62	U P D A T E F A I L U R E	Failed to start up Sub in Power On sequence during Update.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
63	U P D A T E F A I L U R E	Failed to transit to Application Mode.	This unit automatically retries the request several times. Wait until the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
64	U P D A T E F A I L U R E	Failed to transit to Boot Loader Mode.	This unit automatically retries the request several times. Wait until the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
80	U P D A T E F A I L U R E	Write Enable Latch Bit not set in Read after issuing the "WREN" command.	This unit automatically retries the request several times. Wait until the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
81	U P D A T E F A I L U R E	Block Erase failed in Read after issuing the "BE" command.	This unit automatically retries the request several times. Wait until the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
82	U P D A T E F A I L U R E	No Update Packet received from CY920 (Time Out).	This unit automatically retries the request several times. Wait until the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
83	U P D A T E F A I L U R E	Abnormal data in Update Packet received from CY920 (CRCError).	This unit automatically retries the request several times. Wait until the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
84	U P D A T E F A I L U R E	Abnormal data in Update Packet received from CY920 (Packet No Error).	This unit automatically retries the request several times. Wait until the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
85	U P D A T E F A I L U R E	Abnormal data in Update Packet received from CY920 (Data Length / Data No).	This unit automatically retries the request several times. Wait until the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
86	U P D A T E F A I L U R E	Mismatched Check Sum in Check Sum comparison after rewriting.	This unit automatically retries the request several times. Wait until the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
A2	C O N N E C T I O N F A I L U R E	Unable to detect USB.	This unit automatically retries the request several times. Wait until the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.

Error Code	USB Update Error Display	Details of Error code	Remedies
A3	FilesNotFound A3	No Firmware File in USB.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
A4	NotMatchFirmware A4	The Firmware File in the USB does not support your model and area.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
A6	UpdatingFailed A6	Error notification received while requesting the Firmware Info.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
A7	UpdatingFailed A7	Time Out while obtaining Firmware information.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
AE	ConnectionFailure	Unable to detect USB for Firmware Download.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
AF	FilesNotFound AF	No Firmware File for Firmware Download.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
B1	ConnectionFailure B1	Time Out in Download (writing to SDRAM) for Firmware Download.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
B2	UpdatingFailed B2	Error notification received after rewriting the CY920 Firm.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
B3	UpdatingFailed B3	Error in Firmware Update (Time Out).	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
B4	UpdatingFailed B4	Failed to transit to Boot Loader Mode.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
B5	UpdatingFailed B5	Failed to transit to Application Mode.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.

---Checking the firmware version after updating---

After updating the firmware, check the version. See "**1. Version Display Mode**" ([page 18](#)).

1.11. Device display during the firmware update

Display the device being updated and the update progress.

Target device	USB Update Display	Error code when an error occurs
Main CPU	L1 M a i n : * * % * * * n i n	10 - 16 36 - 3D 3F
Audio PLD	L1 A P L D : * * % * * * n i n	50 - 52 54 - 57 5A - 64
DSP	L1 D S P : * * % * * * n i n	50 - 52 54 - 57 5A - 64
GUI Serial Flash	L1 G U I : * * % * * * n i n	50 - 52 54 - 57 5A 62 - 64 80 - 86
CY920 second Boot Loader	L1 E S B L : * * % * * * n i n	A2 - A4 A6 - A7 AE - AF B1 - B5
CY920 Image	L1 E I M G : * * % * * * n i n	A2 - A4 A6 - A7 AE - AF B1 - B5
CY920 Image (Emergency Mode)	L1 U p d a t e r e t r y	-

---Checking the Firmware Version After the Update---

After updating the firmware, check the version. See "1. Version Display Mode" (page 18).

2. Updating via DPMS

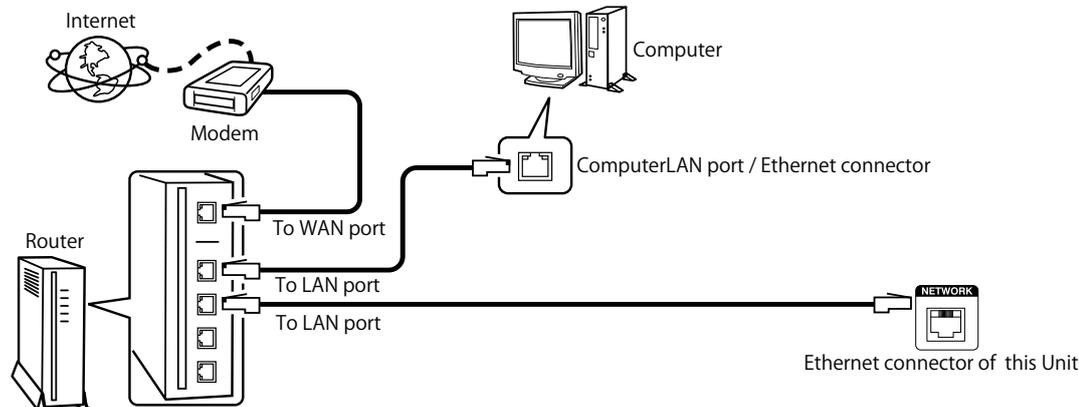
Download the latest firmware from our website and update the firmware.

2.1. Network Connection

(1) System Requirements

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

(2) Setting



2.2. Check and update the firmware

Check if there is a firmware update available. It is also possible to check approximately how long the update will take.

- (1) Press the **"SETUP"** button on the remote control to display the GUI menu.
- (2) Press the cursor button to select **"General"** → **"Firmware"** → **"Update"** → **"Check for Update"**.
- (3) Press the **"ENTER"** button.
 - The latest version of the firmware uploaded to the web is displayed.
 - If the latest firmware version is on the web, proceed to (4).
 - If the latest firmware is already installed, press the **"SETUP"** button 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.
 - Returns to the normal status after the update is completed.

---Cautions on Firmware Update---

- For the update procedure, a proper broadband Internet connection environment and settings are required.
- Do not turn off the power until updating 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.

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

2.3. About the error codes

See the following table for details on the error code display, details of the error code, remedies when updating the firmware via DPMS. (DPMS : D&M Product Management Server)

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

Error Code	DPMS Update Error Display	Details of Error code	Remedies
12	Updating fail 12	Abnormal data in Update Packet received from CY920 (Packet No Error).	Turn off and on the power. Updating starts automatically.
13	Erase fail 13	Failed in Block Erase before rewriting Main.	Turn off and on the power. Updating starts automatically.
14	Updating fail 14	Failed in Block Erase while rewriting Main.	Turn off and on the power. Updating starts automatically.
15	UpdateCheckNG 15	Error in Verify after rewriting Main (Check Sum Error).	Turn off and on the power. Updating starts automatically.
16	Updating fail 16	Setup failure of the XModem transfer method.	Check the network connection. Carry out the update in an environment that has little network load.
20	ConnectionFail 20	After SBL Mode IP Address acquisition failure (AutoIP).	Check the network connection. Carry out the update in an environment that has little network load.
21	ConnectionFail 21	After SBL Mode IP Address acquisition failure (Time Out).	Check the network connection. Carry out the update in an environment that has little network load.
22	Login failed 22	DPMS login incorrect notification after SBL.	Initialize the unit and try updating again. Carry out the update in an environment that has little network load.
23	Server is busy 23	DPMS congestion notification after SBL.	Carry out the update in an environment that has little network load.
24	ConnectionFail 24	DPMS connection failure notification after SBL.	Check the network connection. Carry out the update in an environment that has little network load.
25	ConnectionFail 25	Failed to transit to SBL Mode.	Initialize the unit and try updating again.
26	Download fail 26	Error in Firmware Download (Time Out).	Check the network connection. Carry out the update in an environment that has little network load.
27	ConnectionFail 27	Failed to write to EEPROM after SBL Mode.	Initialize the unit and try updating again.
36	Login failed 36	DPMS login incorrect notification.	Carry out the update in an environment that has little network load.
37	Server is busy 37	DPMS congestion notification.	Carry out the update in an environment that has little network load.
38	ConnectionFail 38	DPMS connection failure notification.	Check the network connection. Carry out the update in an environment that has little network load.

Error Code	DPMS Update Error Display	Details of Error code	Remedies
39	ConnectionFail139	DPMS connection Time Out Error.	Check the network connection. Carry out the update in an environment that has little network load.
3A	Download fail13A	Error(NG) notification received while requesting Firmware Download.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3B	Download fail13B	Error(Server Busy) notification received while requesting Firmware Download.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3C	Download fail13C	Error(Connect failure) notification received while requesting Firmware Download.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3D	ConnectionFail13D	After SBL Mode IP Address acquisition failure (AutoIP).	Check the network connection. Carry out the update in an environment that has little network load.
3E	ConnectionFail13E	After SBL Mode IP Address acquisition failure (Time Out).	Check the network connection. Carry out the update in an environment that has little network load.
3F	ConnectionFail13F	Failed to transit to SBL Mode.	Check the network connection. Carry out the update in an environment that has little network load.
50	Sub Login failed 50	DPMS login incorrect notification.	Carry out the update in an environment that has little network load.
51	Server is busy 51	DPMS congestion notification.	Carry out the update in an environment that has little network load.
52	ConnectionFail152	DPMS connection failure notification.	Check the network connection. Carry out the update in an environment that has little network load.
54	Updating fail154	Error notification received while requesting the Firmware Info.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
55	Updating fail155	Time Out while obtaining Firmware information.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
56	Download fail156	Error(NG) notification received while requesting Firmware Download.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
57	Download fail157	Error(Server Busy) notification received while requesting Firmware Download.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
58	Download fail158	Error(Connect failure) notification received while requesting Firmware Download.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
5A	ConnectionFail15A	Invalid DeviceID in response or no response from Sub for the "C" command.	Turn off and on the power. Updating starts automatically.

Error Code	DPMS Update Error Display	Details of Error code	Remedies
5B	U P D a t e f a i l u r e 5 B	NACK received in response or no response from Sub for the "L" command.	Turn off and on the power. Updating starts automatically.
5C	U P D a t e f a i l u r e 5 C	No Update Packet received from CY920 (Time Out).	Turn off and on the power. Updating starts automatically.
5D	U P D a t e f a i l u r e 5 D	Abnormal data in Update Packet received from CY920 (CRCError).	Turn off and on the power. Updating starts automatically.
5E	U P D a t e f a i l u r e 5 E	Abnormal data in Update Packet received from CY920 (PacketNo-Error).	Turn off and on the power. Updating starts automatically.
5F	U P D a t e f a i l u r e 5 F	Setup failure of the XModem transfer method.	Turn off and on the power. Updating starts automatically.
60	U P D a t e f a i l u r e 6 0	NACK received in response or no response from Sub for the "P" command.	Turn off and on the power. Updating starts automatically.
61	U P D a t e f a i l u r e 6 1	Mismatched Check Sum in response or no response from Sub for the "I" command.	Turn off and on the power. Updating starts automatically.
62	U P D a t e f a i l u r e 6 2	Failed to start up Sub in Power On sequence during Update.	Turn off and on the power. Updating starts automatically.
80	U P D a t e f a i l u r e 8 0	Write Enable Latch Bit not set in Read after issuing the "WREN" command.	Turn off and on the power. Updating starts automatically.
81	U P D a t e f a i l u r e 8 1	Block Erase failed in Read after issuing the "BE" command.	Turn off and on the power. Updating starts automatically.
82	U P D a t e f a i l u r e 8 2	No Update Packet received from CY920 (Time Out).	Turn off and on the power. Updating starts automatically.
83	U P D a t e f a i l u r e 8 3	Abnormal data in Update Packet received from CY920 (CRCError).	Turn off and on the power. Updating starts automatically.
84	U P D a t e f a i l u r e 8 4	Abnormal data in Update Packet received from CY920 (PacketNo-Error).	Turn off and on the power. Updating starts automatically.
85	U P D a t e f a i l u r e 8 5	Setup failure of the XModem transfer method.	Turn off and on the power. Updating starts automatically.
86	U P D a t e f a i l u r e 8 6	Mismatched Check Sum in Check Sum comparison after rewriting.	Turn off and on the power. Updating starts automatically.
A0	C o n n e c t i o n F a i l u r e	IP Address acquisition failure (AutoIP).	Check the network connection. Carry out the update in an environment that has little network load.

Error Code	DPMS Update Error Display	Details of Error code	Remedies
A1	ConnectionFailedA1	IP Address acquisition failure (Time Out).	Check the network connection. Carry out the update in an environment that has little network load.
A2	LoginFailedA2	DPMS login incorrect notification.	Check the network connection. Carry out the update in an environment that has little network load.
A3	ServerIsBusyA3	DPMS congestion notification.	Check the network connection. Carry out the update in an environment that has little network load.
A4	ConnectionFailedA4	DPMS connection failure notification.	Check the network connection. Carry out the update in an environment that has little network load.
A6	UpdatingFailedA6	Error notification received while requesting the Firmware Info.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
A7	UpdatingFailedA7	Time Out while obtaining Firmware information.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
AE	DownloadFailedAE	Error(NG) notification received while requesting Firmware Download.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
AF	DownloadFailedAF	Error(Server Busy) notification received while requesting Firmware Download.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B0	DownloadFailedB0	Error(Connect failure) notification received while requesting Firmware Download.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B1	DownloadFailedB1	Error in Firmware Download (Time Out).	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B2	UpdatingFailedB2	Error notification received after rewriting the CY920 Firm.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B3	UpdatingFailedB3	Error in Firmware Update (Time Out).	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B4	UpdatingFailedB4	Failed to transit to Boot Loader Mode.	Initialize the unit and try updating again.
B5	UpdatingFailedB5	Failed to transit to Application Mode.	Initialize the unit and try updating again.

Device display during the firmware update

Display the device being updated and the update progress.

Target device	DPMS Update Display	Error code when an error occurs
Main CPU	L1 Main =***% ***min	10 - 16 36 - 3F
Audio PLD	L1 APLO =***% ***min	50 - 52 54 - 58 5A - 62
DSP	L1 DSP1 =***% ***min	50 - 52 54 - 58 5A - 62
GUI Serial Flash	L1 GUI =***% ***min	50 - 52 54 - 58 5A 62 80 - 86
CY920 second Boot Loader	L1 ESBL =***% ***min	A0 - A4 A6 - A7 AE - B5
CY920 Image	L1 EIMG =***% ***min	A0 - A4 A6 - A7 AE - B5
CY920 Image (Emergency Mode)	L1 Update safety	-

---Checking the Firmware Version After the Update---

After updating the firmware, check the version.

See "1. Version Display Mode" ([page 18](#)).

ADJUSTMENT

Adjusting Idling Current

1. Preparation

- (1) Prepare a DC voltmeter.
- (2) Place the unit under 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°C to 30°C (59 ° F ~ 86 ° F) 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

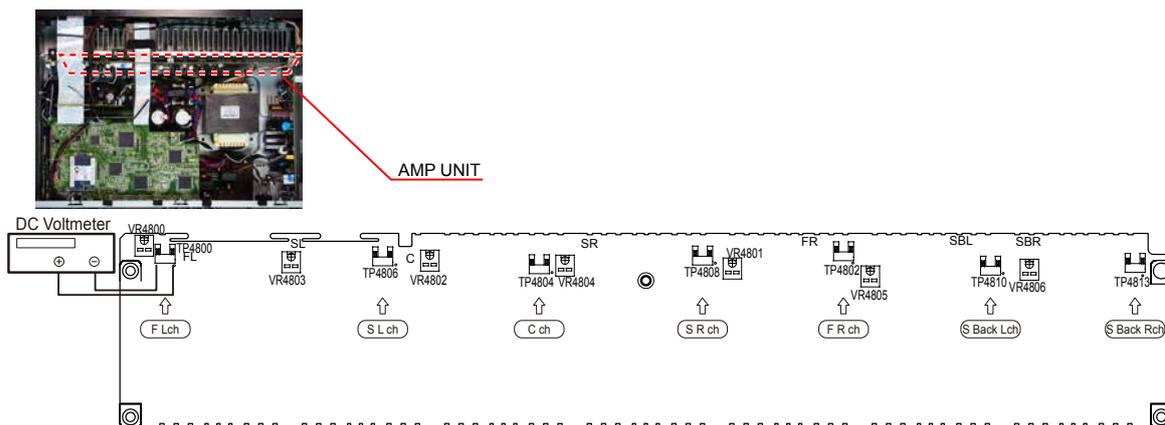
- (1) Remove the top cover and turn VR4800, VR4801, VR4802, VR4803, VR4804, VR4805, VR4806 of the AMP PCB counterclockwise(⤿) as far as possible.
- (2) Connect DC Voltmeter to the test points.

FRONT-Lch	: TP4800
FRONT-Rch	: TP4802
CENTER ch	: TP4804
SURROUND-Lch	: TP4806
SURROUND-Rch	: TP4808
SURROUND-BACK Lch	: TP4810
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	: "----" (⤿ min.) : turn counterclockwise to the lowest position.
SPEAKER (Speaker terminal)	: No load

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

MODE	: MCH STEREO
FUNCTION	: CBL/SAT
- (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 to "**3.0mV ± 0.5mV DC**".
- (7) Adjust the variable resistance of each channel using the same method.(VR48001 - VR4806) .



SURROUND MODES AND PARAMETERS

Sound modes and channel output

- This indicates the audio output channels or surround parameters that can be set.
- ⊙ This indicates the audio output channels. The output channels depend on the settings of "Speaker Config.". (☞ p. 159)

Sound mode	Channel output			
	Front L/R	Center	Surround L/R	Subwoofer
Direct / Pure Direct (2-channel)	○			⊙*
Direct / Pure Direct (Multi-channel)	○	⊙	⊙	⊙
Stereo	○			⊙
Multi Ch In	○	⊙	⊙	⊙
Dolby Pro Logic II	○	⊙	⊙	⊙
DTS Neo:6	○	⊙	⊙	⊙
Dolby Digital	○	⊙	⊙	⊙
Dolby Digital Plus	○	⊙	⊙	⊙
Dolby TrueHD	○	⊙	⊙	⊙
DTS Surround	○	⊙	⊙	⊙
DTS 96/24	○	⊙	⊙	⊙
DTS-HD	○	⊙	⊙	⊙
DTS Express	○	⊙	⊙	⊙
Multi Ch Stereo	○	⊙	⊙	⊙
Virtual	○			⊙

* Audio is output when "Subwoofer Mode" in the menu is set to "LFE+Main". (☞ p. 164)

Sound modes and surround parameters

Sound mode	Surr.Parameter					
	Dialog Level	Subwoofer Level	Cinema EQ	Loudness Mngmt *1	Dynamic Comp. *2	Low Frequency *3
Direct / Pure Direct (2-channel)*4		○*5		○	○	
Direct / Pure Direct (Multi-channel)*4	○	○		○	○	
Stereo		○		○	○	○
Multi Ch In	○	○	○			○
Dolby Pro Logic II	○	○	○	○	○	
DTS Neo:6	○	○	○	○	○	
Dolby Digital	○	○	○		○	○
Dolby Digital Plus	○	○	○		○	○
Dolby TrueHD	○	○	○	○	○	○
DTS Surround	○	○	○		○	○
DTS 96/24	○	○	○			○
DTS-HD	○	○	○			○
DTS Express	○	○	○			○
Multi Ch Stereo	○	○	○		○	○
Virtual		○		○	○	○

*1 - *5: "Sound modes and surround parameters" (☞ p. 212)

Sound mode	Surr.Parameter				Tone *6	Audyssey			M-DAX *9
	Pro Logic II Music mode only			Neo:6 Music mode only		MultEQ® *7	Dynamic EQ *8	Dynamic Volume *8	
	Panorama	Dimension	Center Width	Center Image					
Direct / Pure Direct (2-channel)*4									
Direct / Pure Direct (Multi-channel)*4									
Stereo					○	○	○	○	
Multi Ch In					○	○	○	○	
Dolby Pro Logic II	○	○	○		○	○	○	○	
DTS Neo:6				○	○	○	○	○	
Dolby Digital					○	○	○	○	
Dolby Digital Plus					○	○	○	○	
Dolby TrueHD					○	○	○	○	
DTS Surround					○	○	○	○	
DTS 96/24					○	○	○	○	
DTS-HD					○	○	○	○	
DTS Express					○	○	○	○	
Multi Ch Stereo					○	○	○	○	
Virtual					○	○	○	○	

*4, *6 - *9: "Sound modes and surround parameters" (☞ p. 212)

- *1 This item can be selected when a Dolby TrueHD signal is played.
- *2 This item can be selected when a Dolby TrueHD, Dolby Digital or DTS signal is played.
- *3 This item can be selected when a Dolby Digital or DTS signal or DVD-Audio is played.
- *4 During playback in Pure Direct mode, the surround parameters are the same as in Direct mode.
- *5 This setting is available when "Subwoofer Mode" in the menu is set to "LFE+Main". (☞ p. 164)
- *6 This item cannot be set when "Dynamic EQ" is set to "On". (☞ p. 133)
- *7 This item cannot be set when Audyssey® Setup (Speaker Calibration) has not been performed.
- *8 This item cannot be set when "MultEQ®" is set to "Off". (☞ p. 132)
- *9 This item can be set when the input signal is analog, PCM 48 kHz or 44.1 kHz.

Types of input signals, and corresponding sound modes

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

Sound mode	NOTE	2-channel signal				Multi-channel signal								
		Analog / PCM	Dolby Digital (+/HD)	DTS (-HD)	PCM Multi	DTS-HD	DTS Express	DTS ES Dscrt6.1	DTS ES Mtrx6.1	DTS	Dolby TrueHD	Dolby Digital Plus	Dolby Digital (EX)	Dolby Digital
DTS Surround														
DTS-HD MSTR						●*4								
DTS-HD HI RES						●*5								
DTS Surround								●	●	●				
DTS 96/24										●*6				
DTS Express							●							
DTS Neo:6	*1	○	○	●										
Dolby Surround														
Dolby TrueHD											●			
Dolby Digital+												●		
Dolby Digital													●	
Dolby Pro Logic II	*2	○	●	○										●
Multi Ch In														
Multi Ch In					●									
Direct														
Direct		○*3	○	○	○	○	○	○	○	○	○	○	○	○

*1 – *6 : "Types of input signals, and corresponding sound modes" (p. 215)

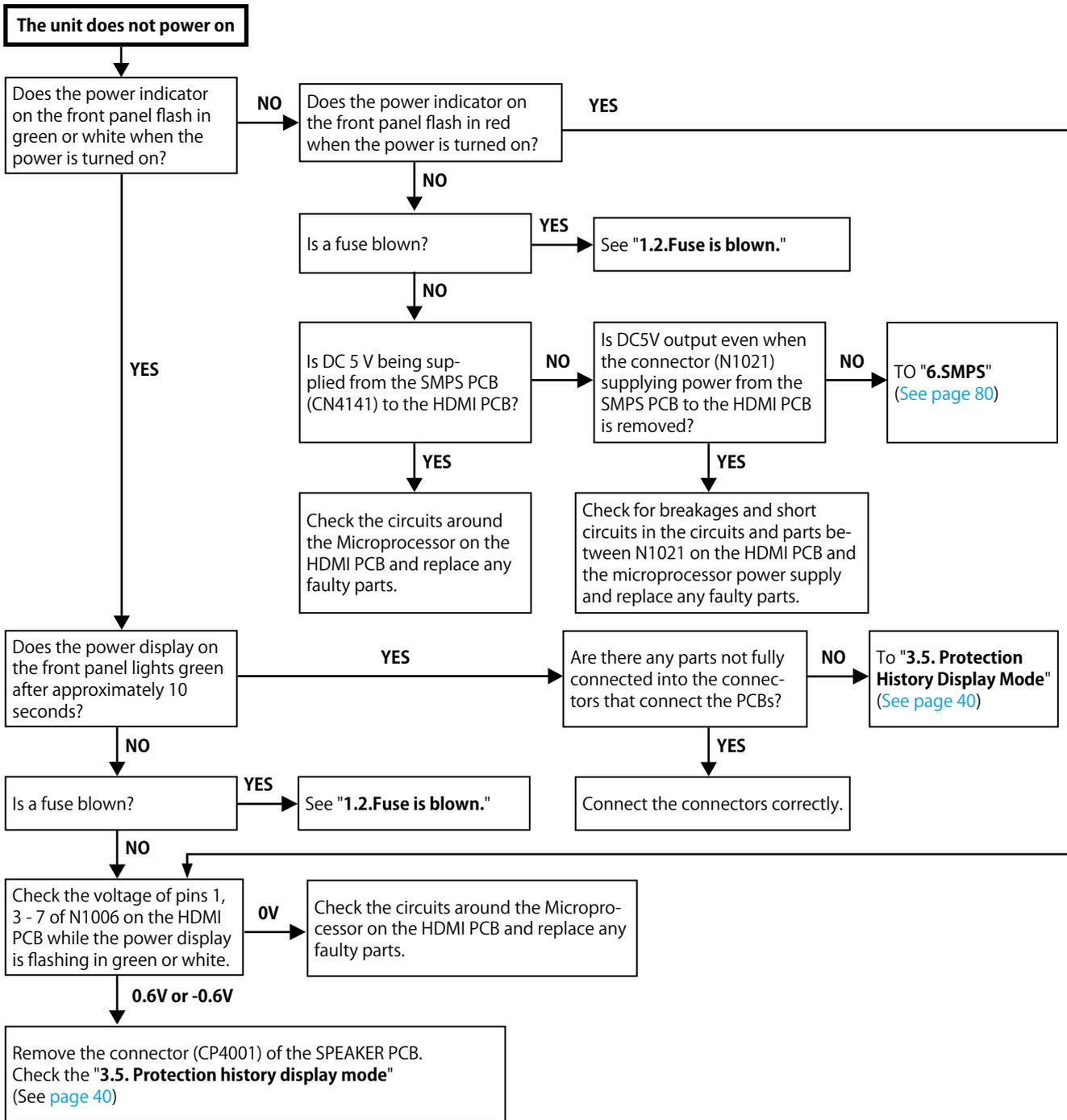
Sound mode	NOTE	2-channel signal				Multi-channel signal								
		Analog / PCM	Dolby Digital (+/HD)	DTS (-HD)	PCM Multi	DTS-HD	DTS Express	DTS ES Dscrt6.1	DTS ES Mtrx6.1	DTS	Dolby TrueHD	Dolby Digital Plus	Dolby Digital (EX)	Dolby Digital
Pure Direct														
Pure Direct		○	○	○	○	○	○	○	○	○	○	○	○	○
Original sound mode														
Multi Ch Stereo		○	○	○	○	○	○	○	○	○	○	○	○	○
Virtual		○	○	○	○	○	○	○	○	○	○	○	○	○
Stereo														
Stereo		●	○	○	○	○	○	○	○	○	○	○	○	○

- *1 The "Cinema" mode or "Music" mode can be selected.
- *2 The "Cinema" mode, "Music" mode or "Game" mode can be selected.
- *3 The default sound mode for the AirPlay playback is "Direct".
- *4 This item can be selected when the input signal is DTS-HD Master Audio.
- *5 This item can be selected when the input signal is DTS-HD Hi Resolution.
- *6 This item can be selected when the input signal is DTS 96/24.

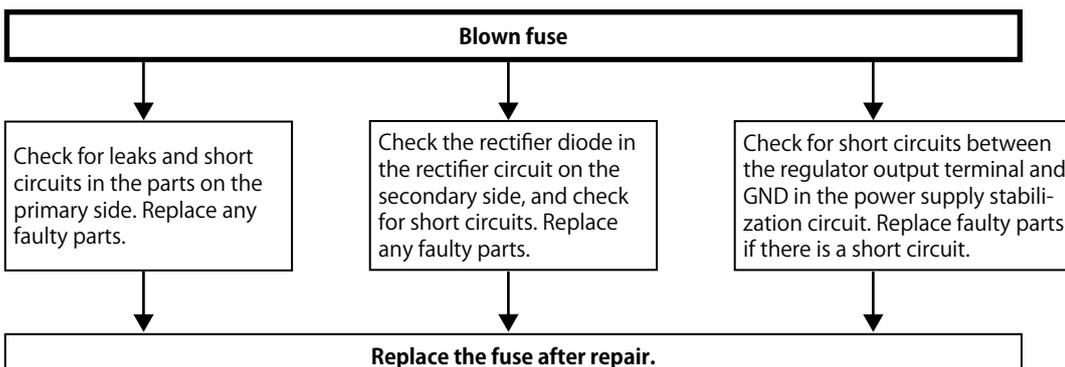
TROUBLE SHOOTING

1. POWER

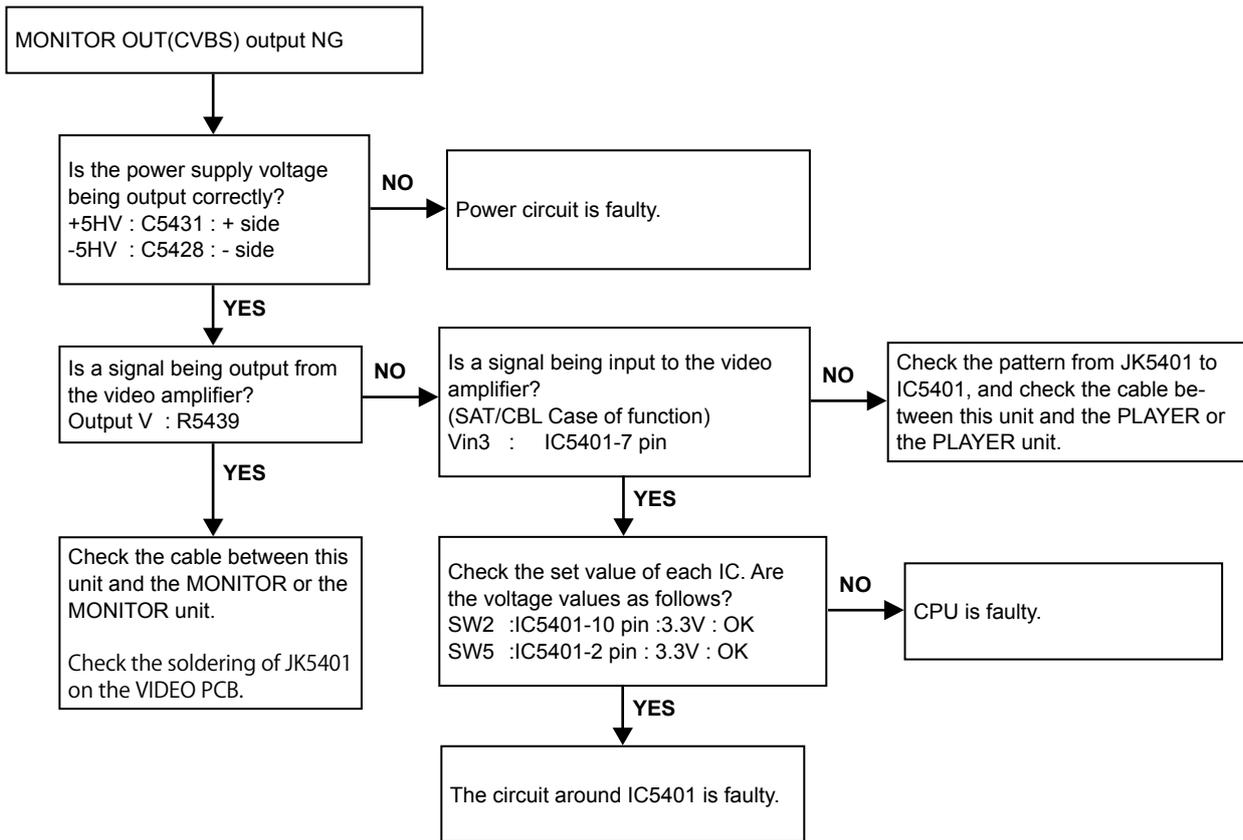
1.1. The unit does not power on



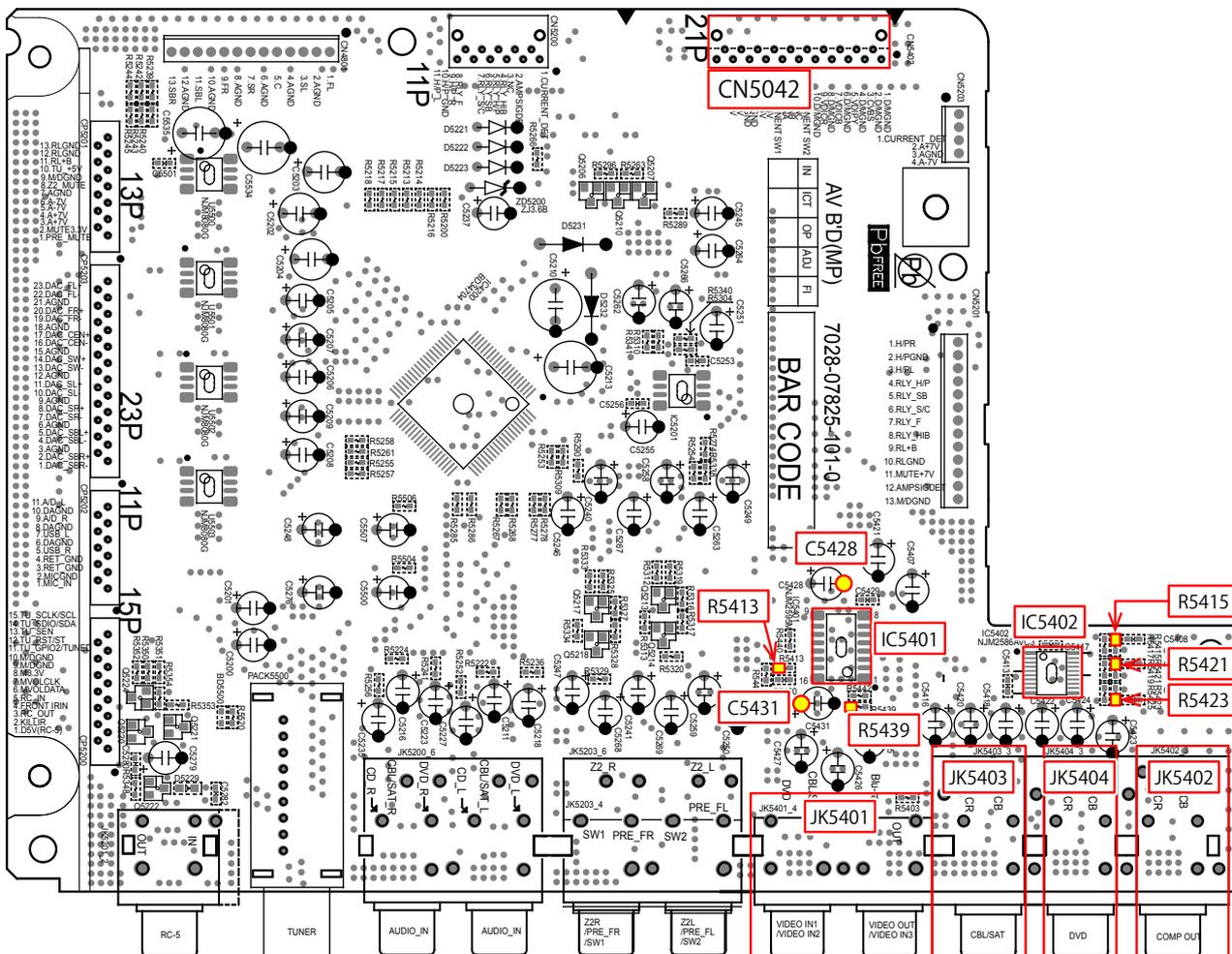
1.2. Fuse is blown



2. Analog video

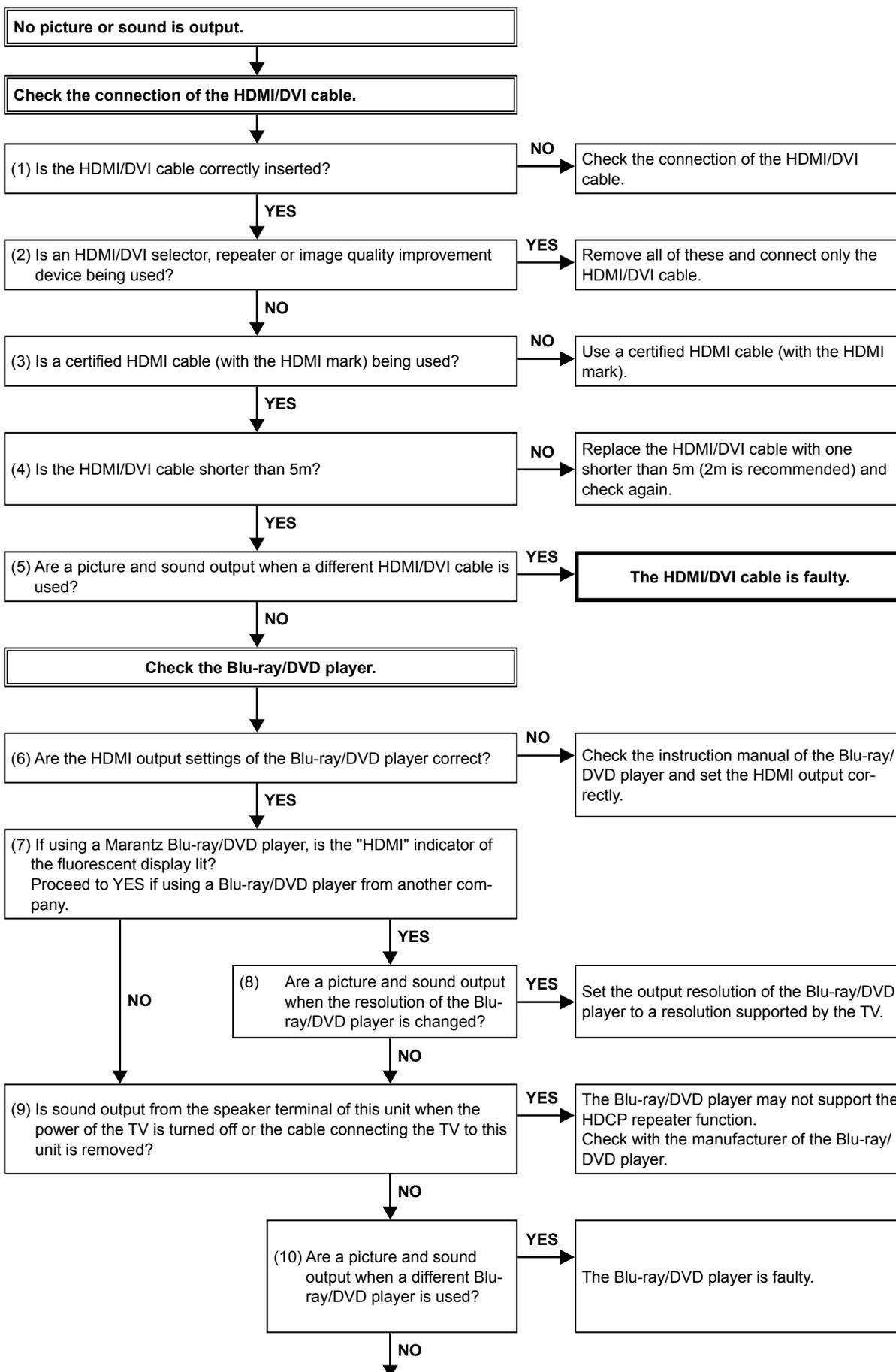


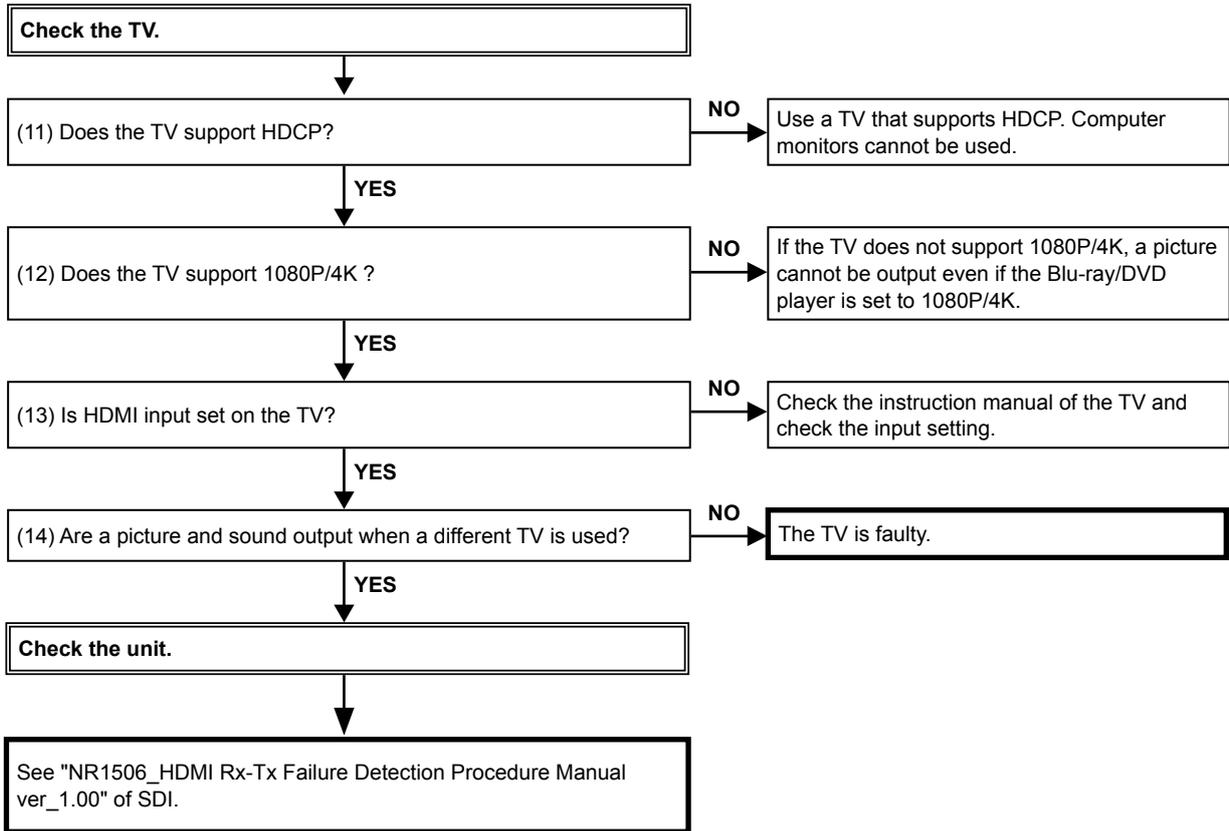
VIDEO Test Points



3. HDMI/DVI

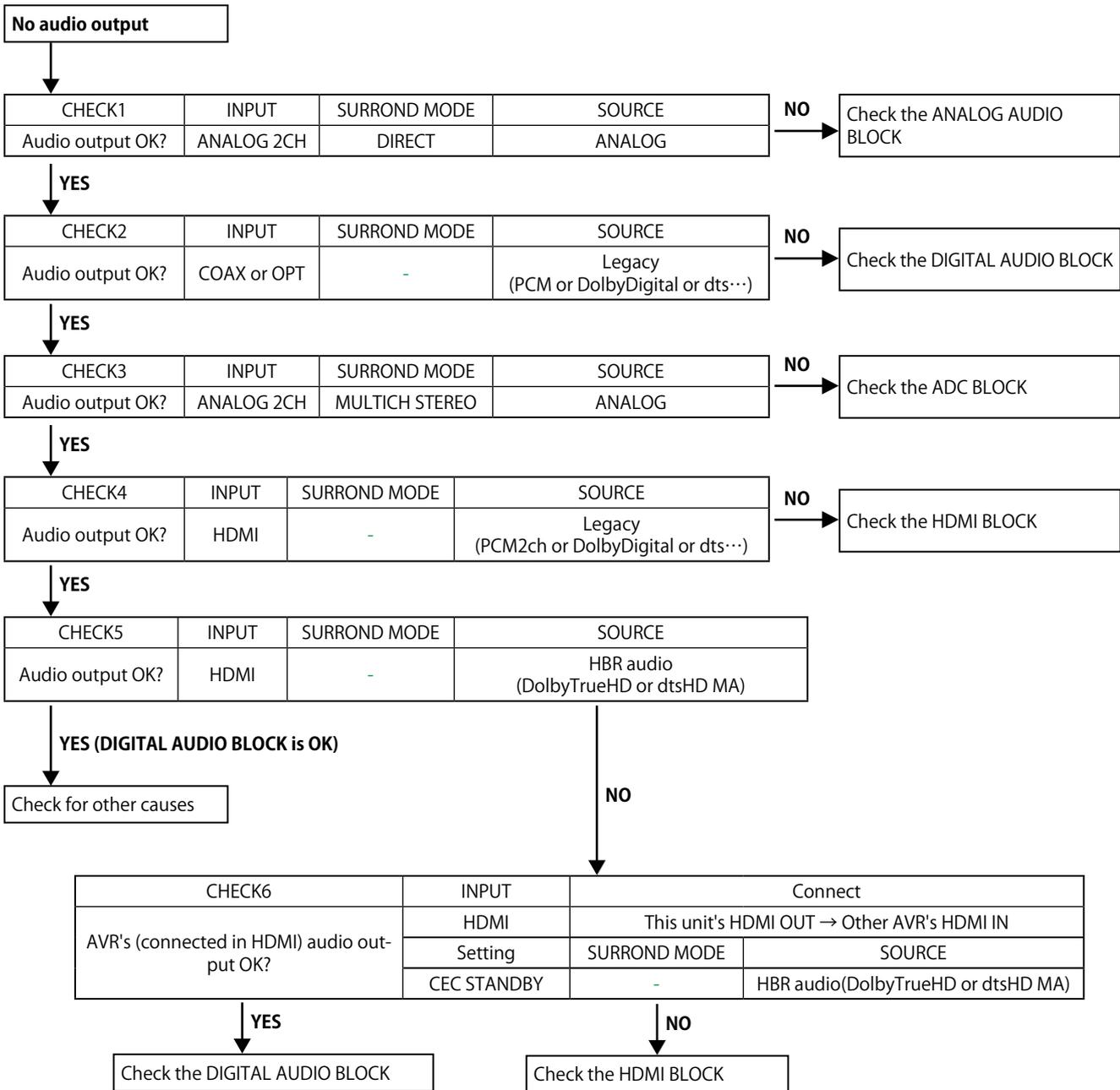
3.1. No picture or sound is output (HDMI to HDMI)



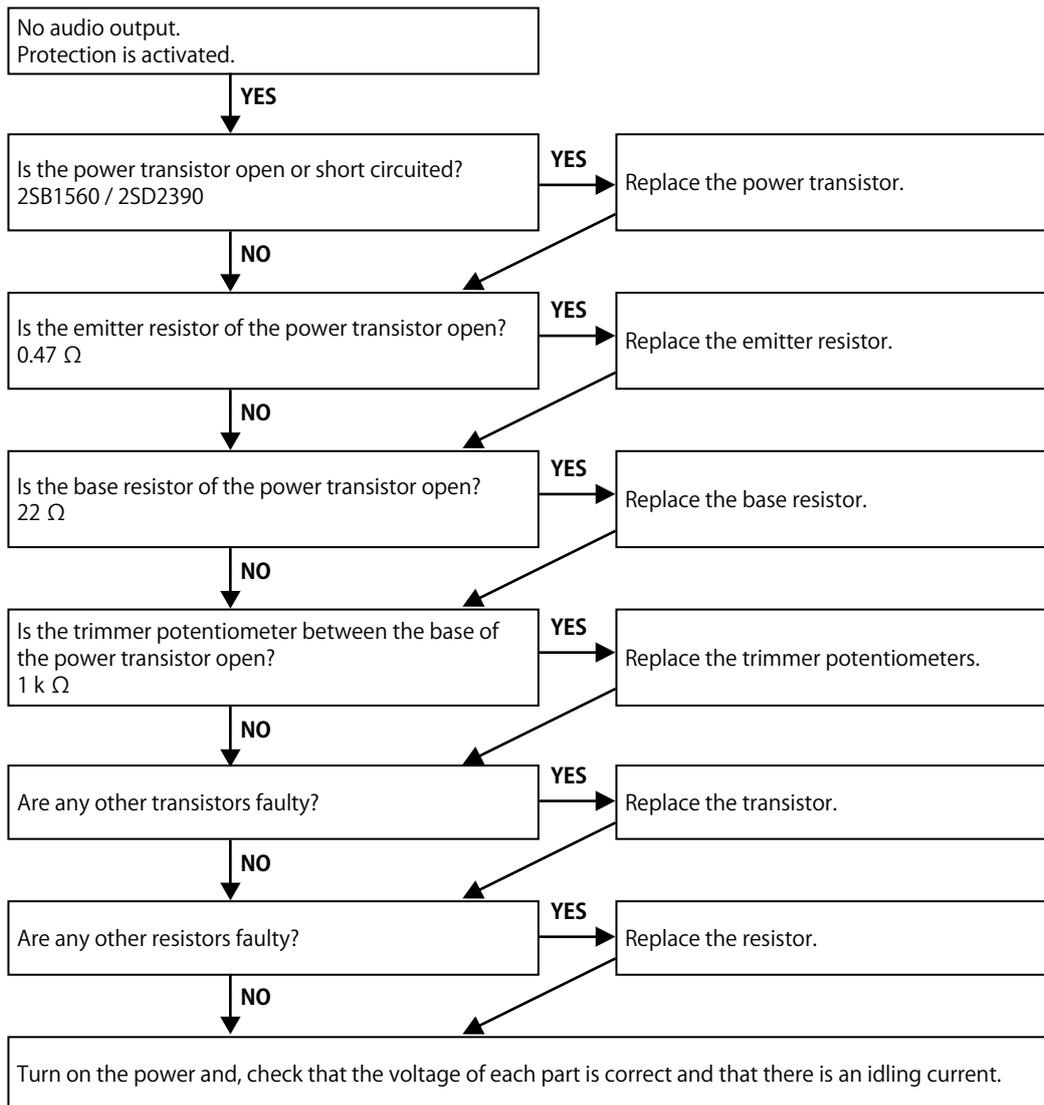


4. AUDIO

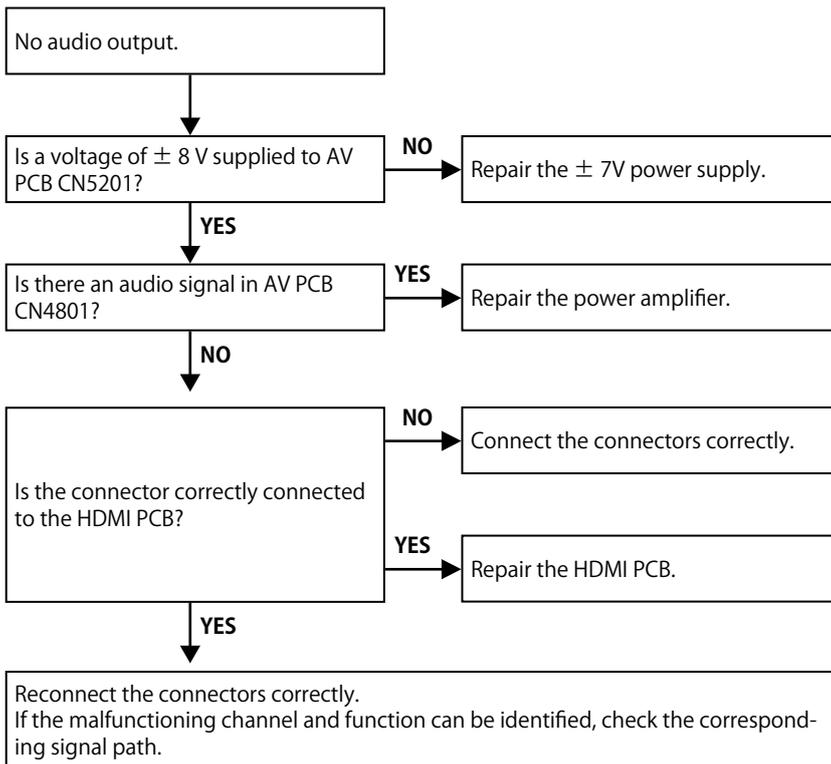
4.1. AUDIO CHECK



4.2. Power AMP (AMP PCB)

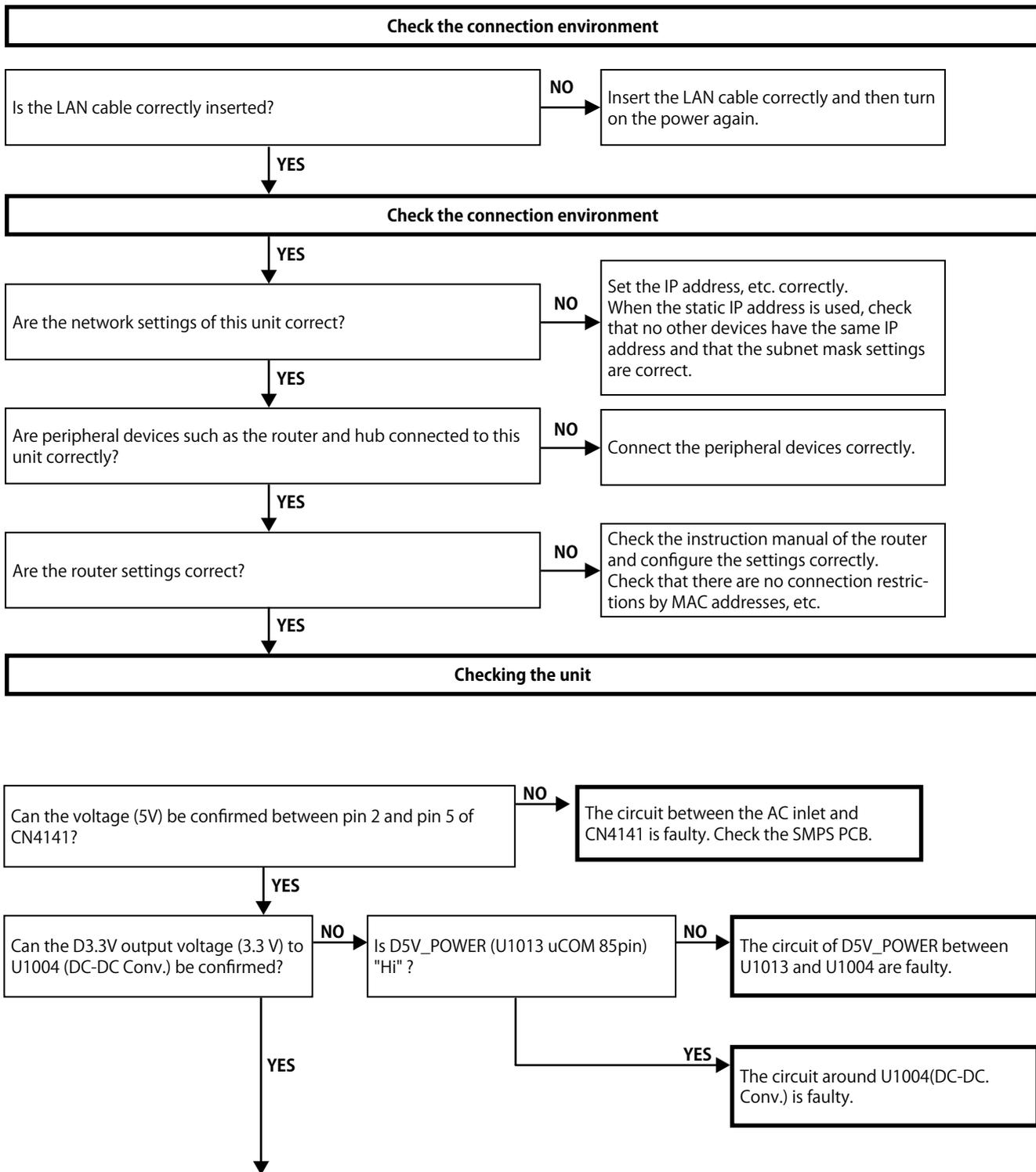


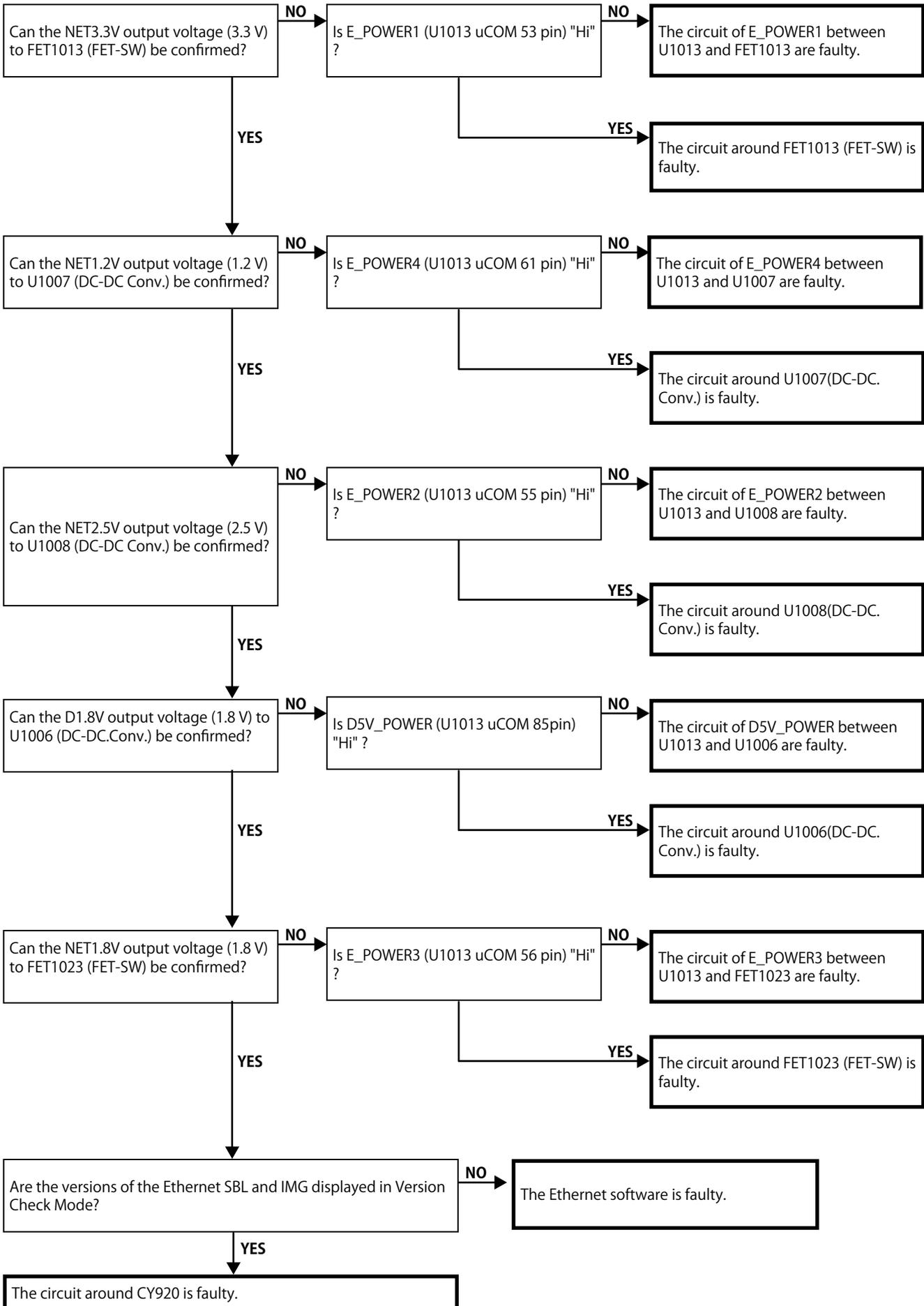
4.3. Analog audio



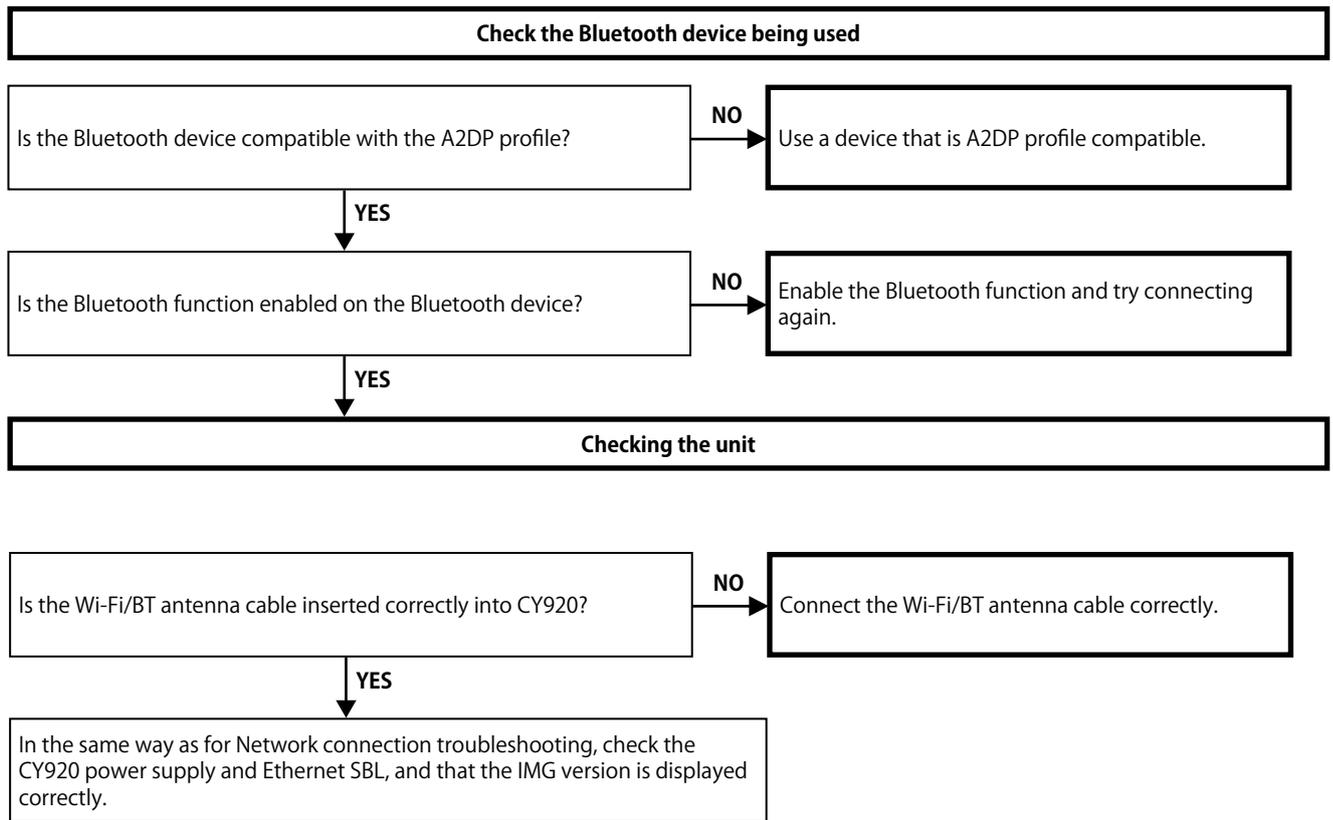
5. Network / Bluetooth / USB

5.1. Cannot connect to the network

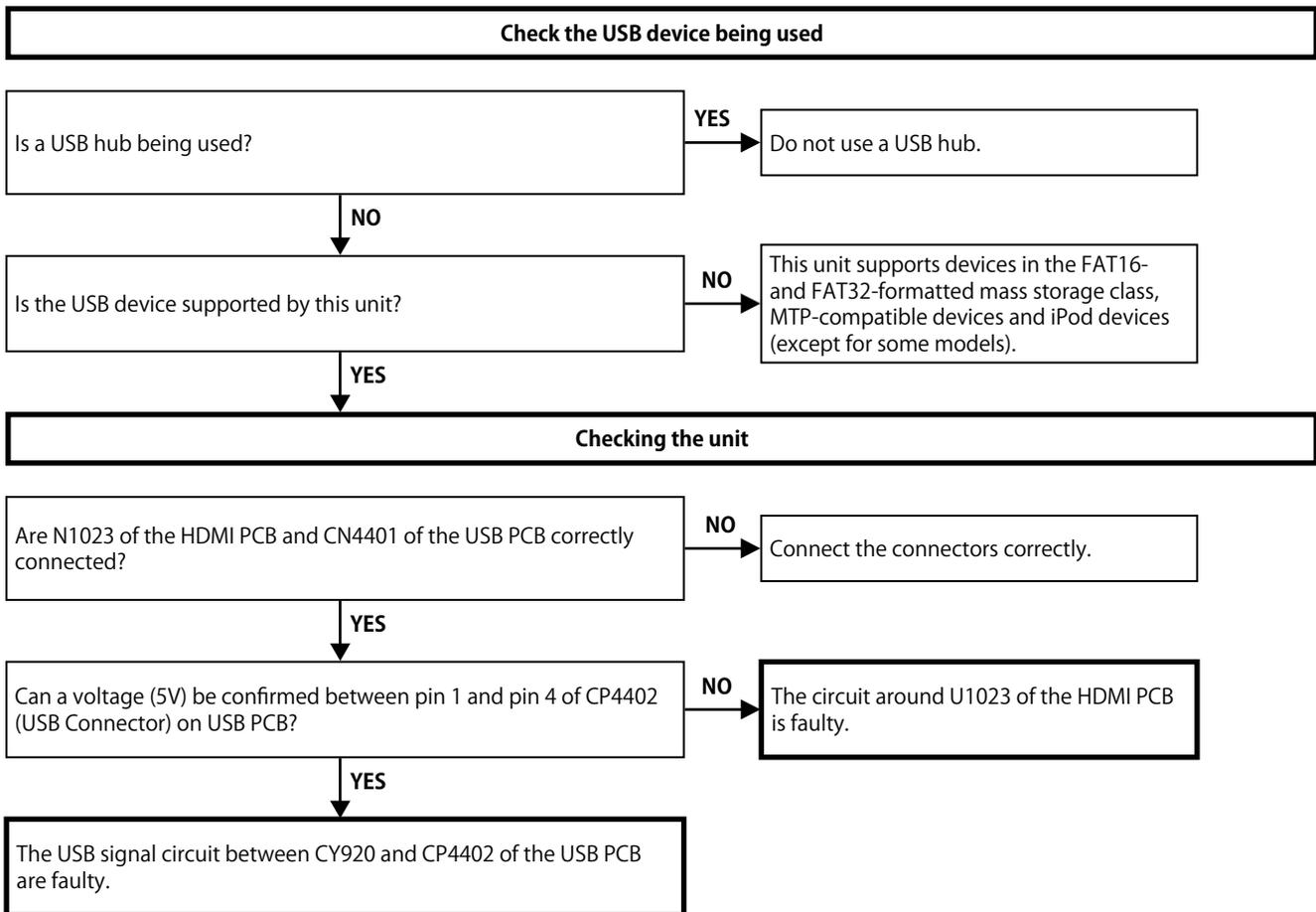




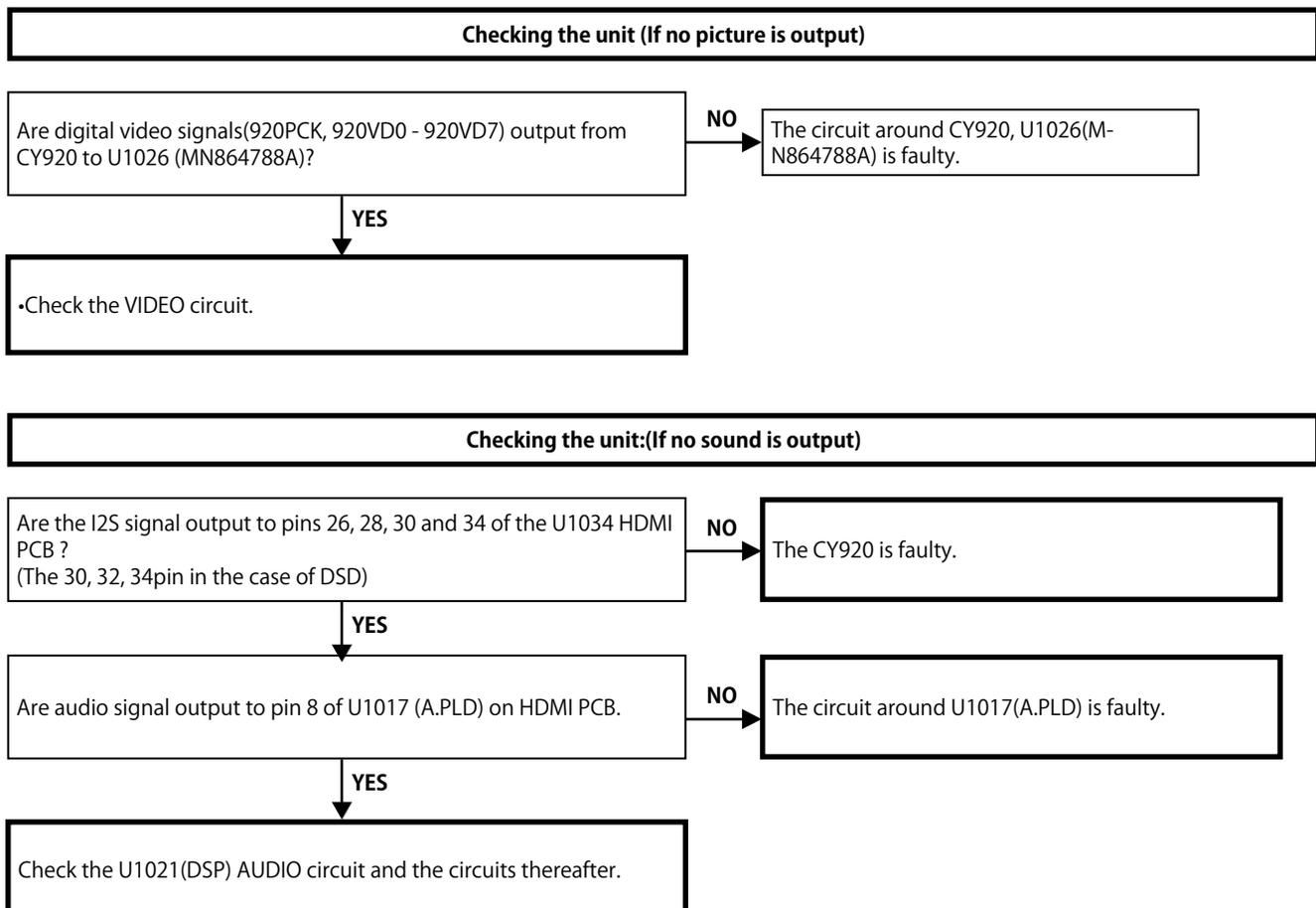
5.2. Cannot establish a Bluetooth connection



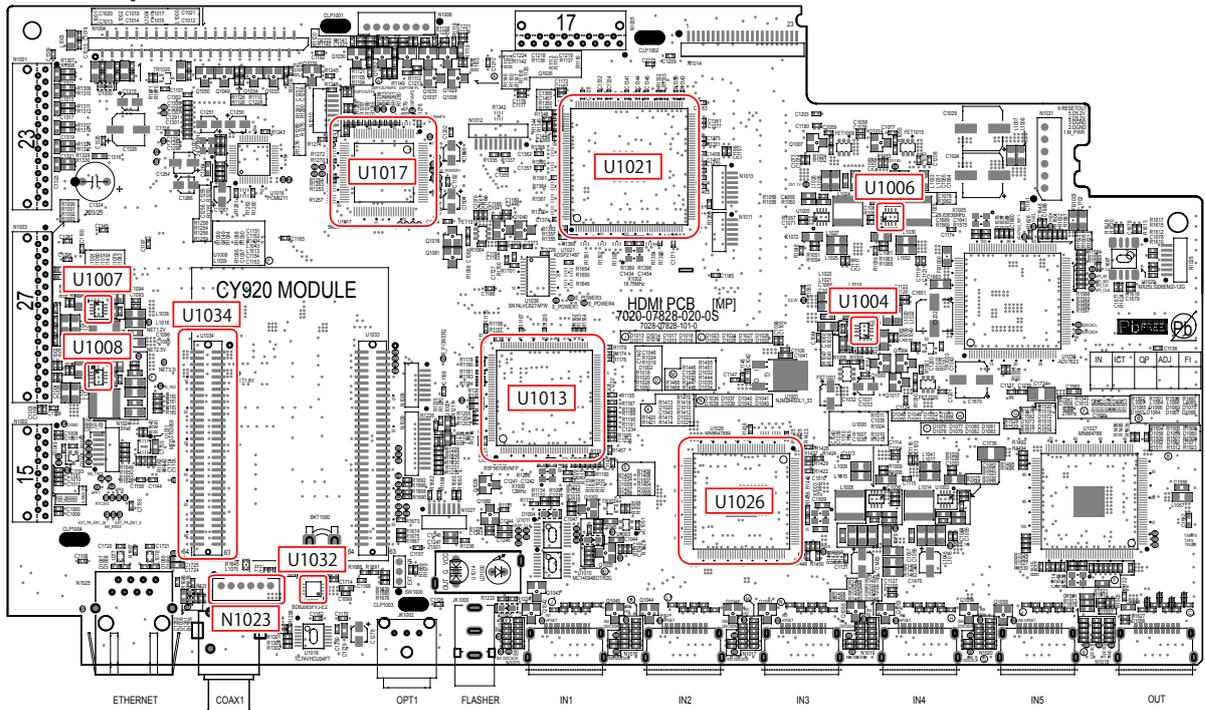
5.3. Cannot recognize the connected USB device



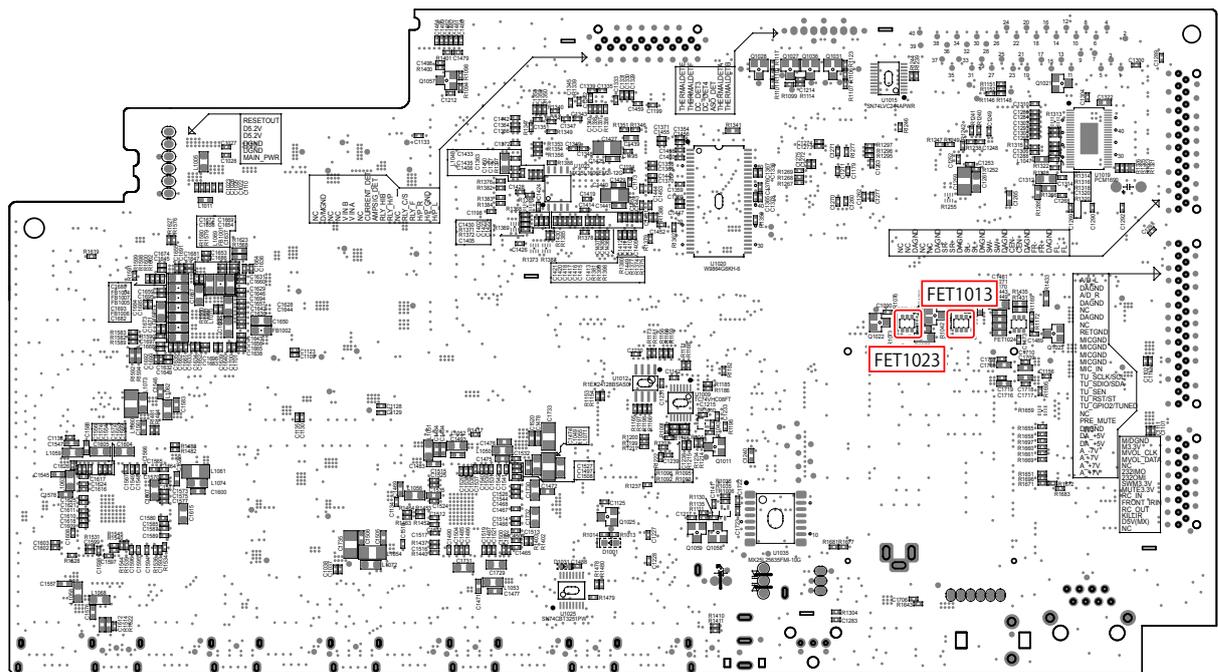
5.4. No picture or sound is output



HDMI test point

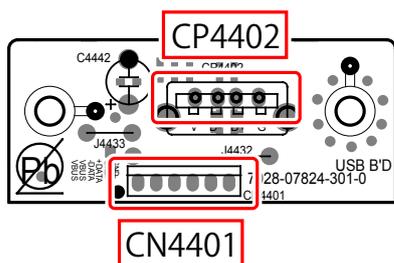


(A SIDE)



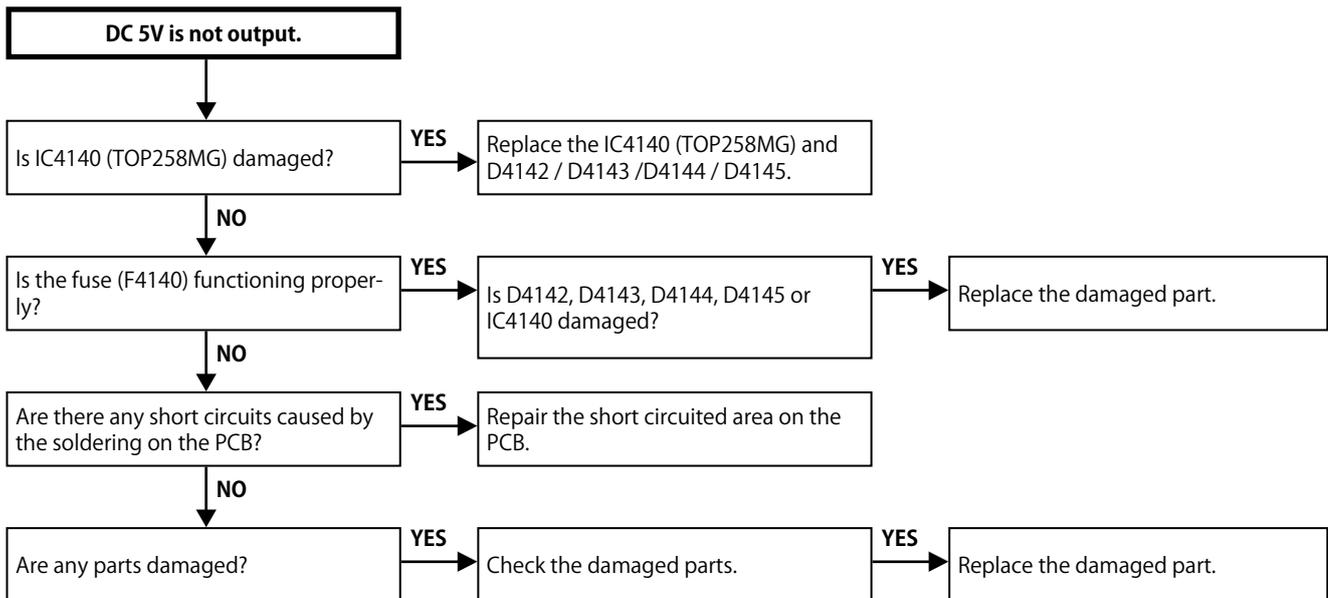
(B SIDE)

USB test point

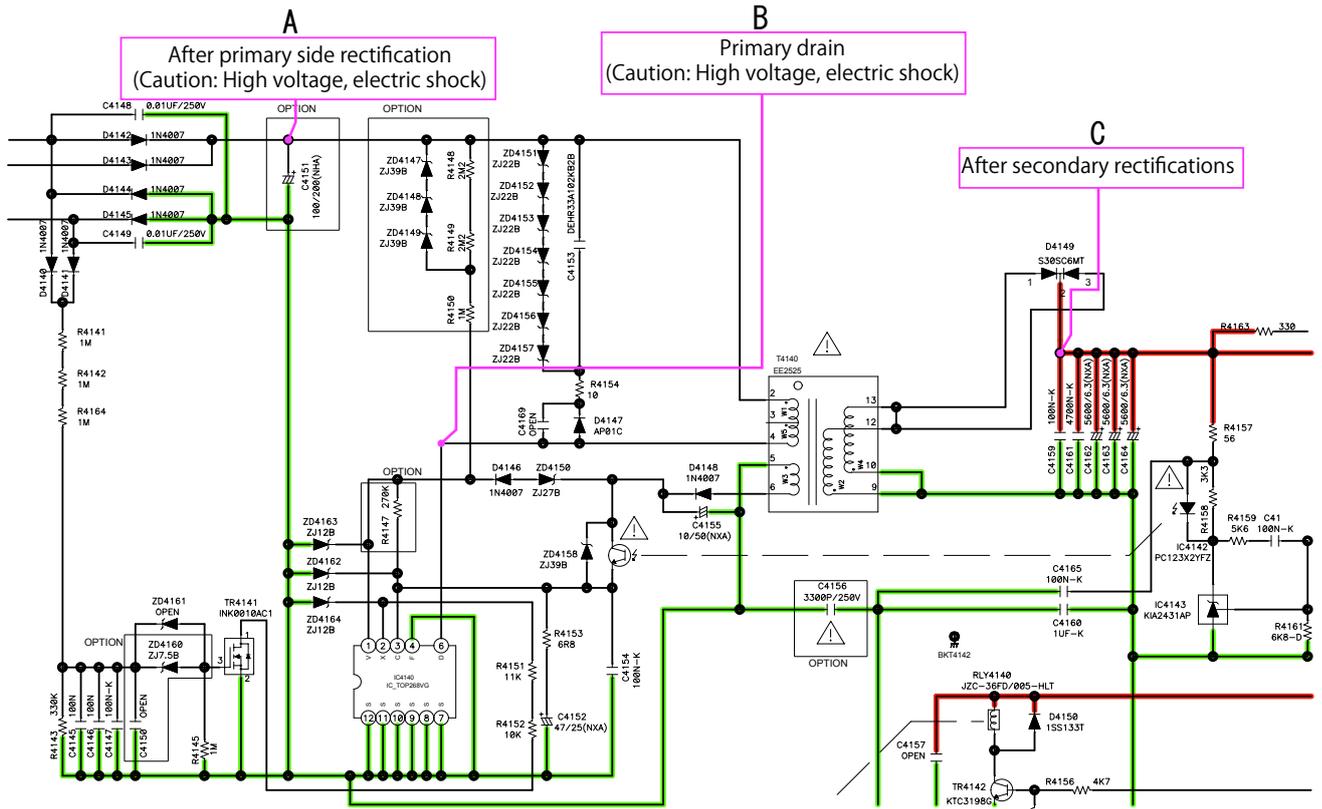


(A SIDE)

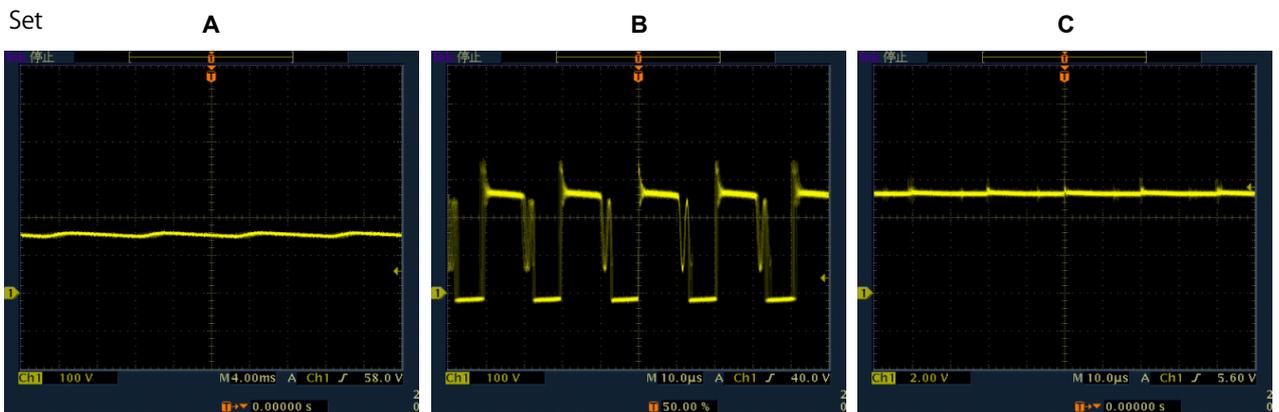
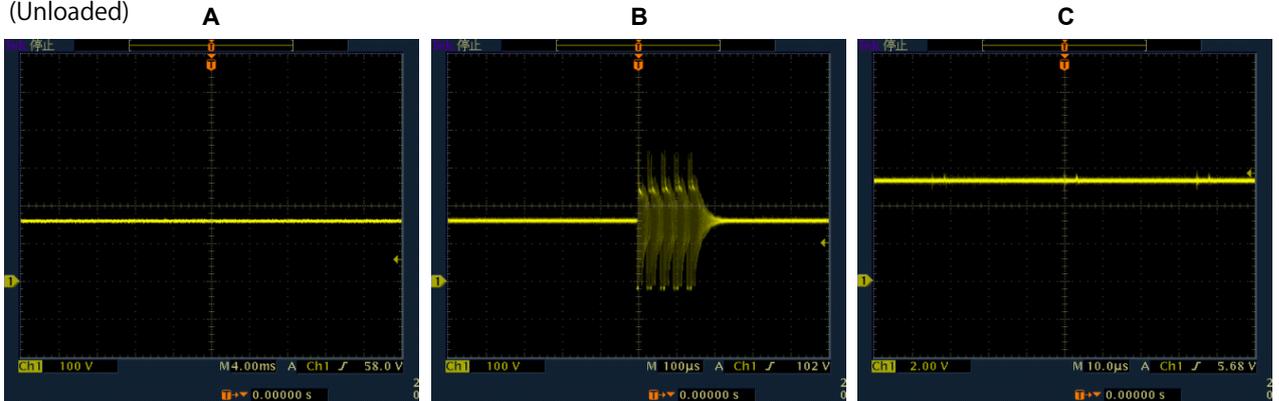
6. SMPS



Operation waveform for each part

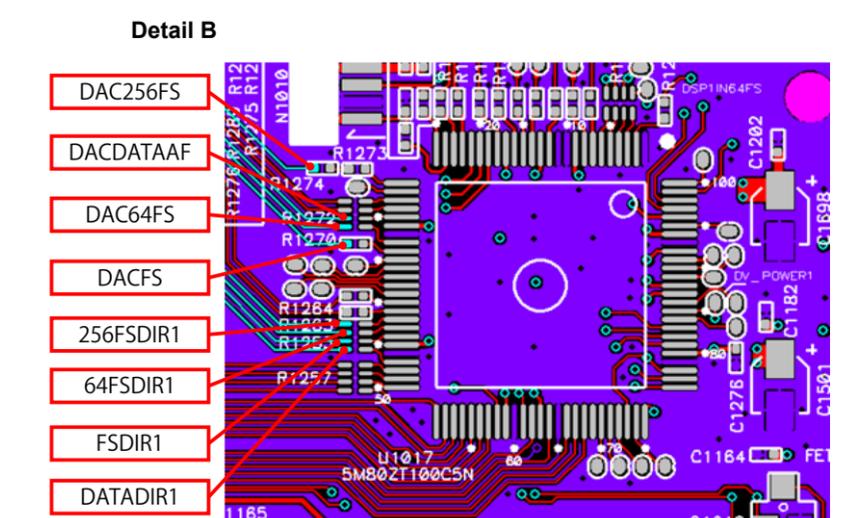
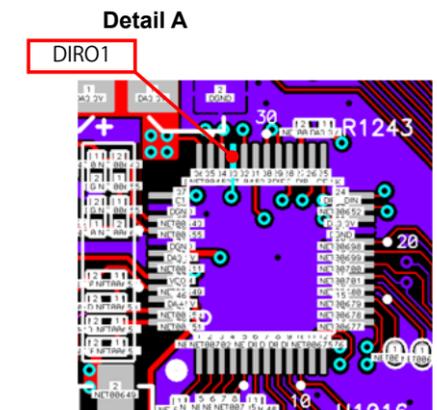
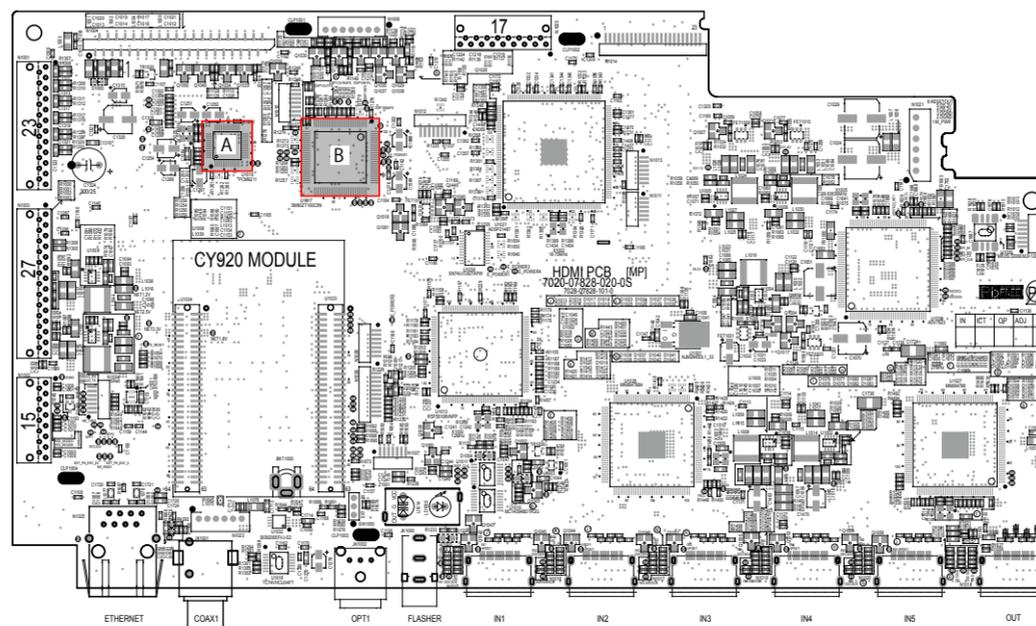
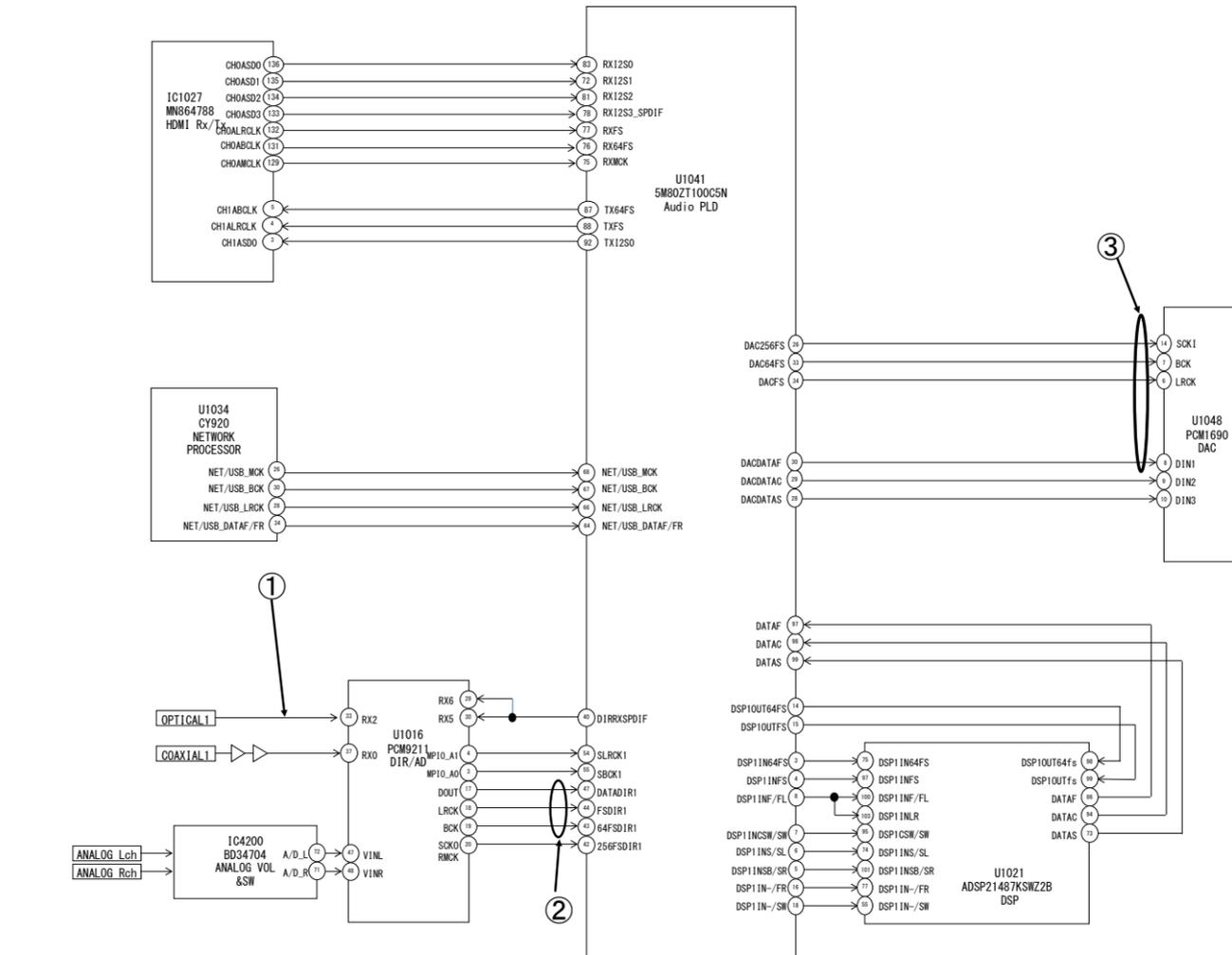
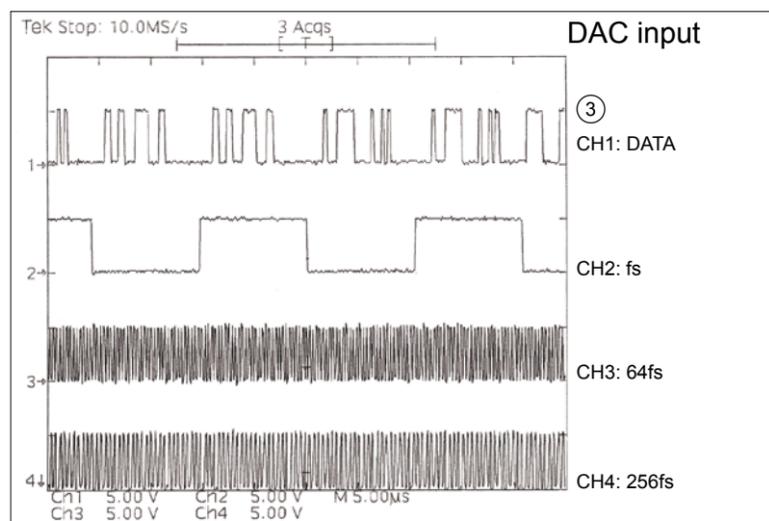
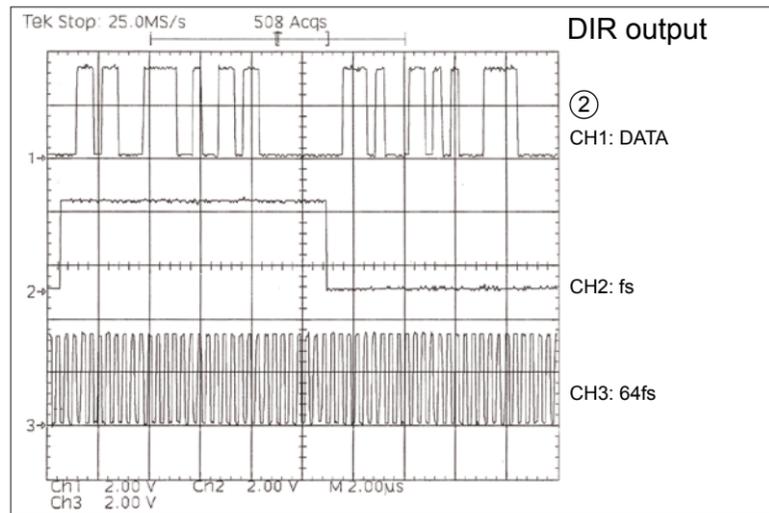
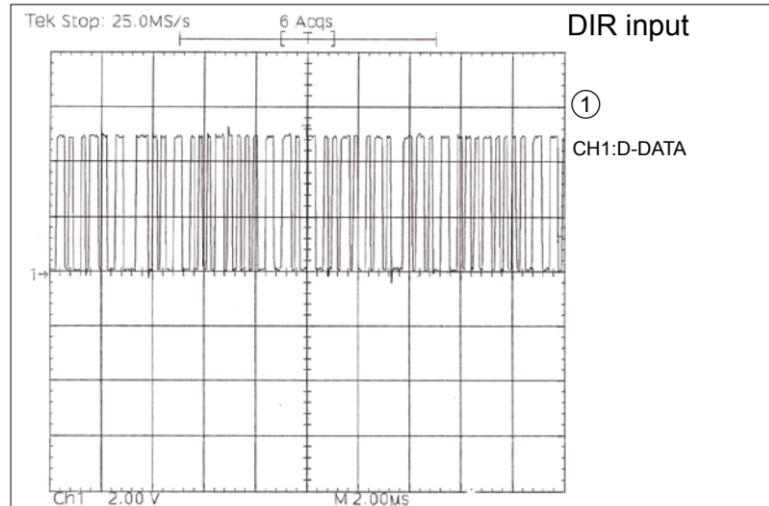


SMPS unit (Unloaded)



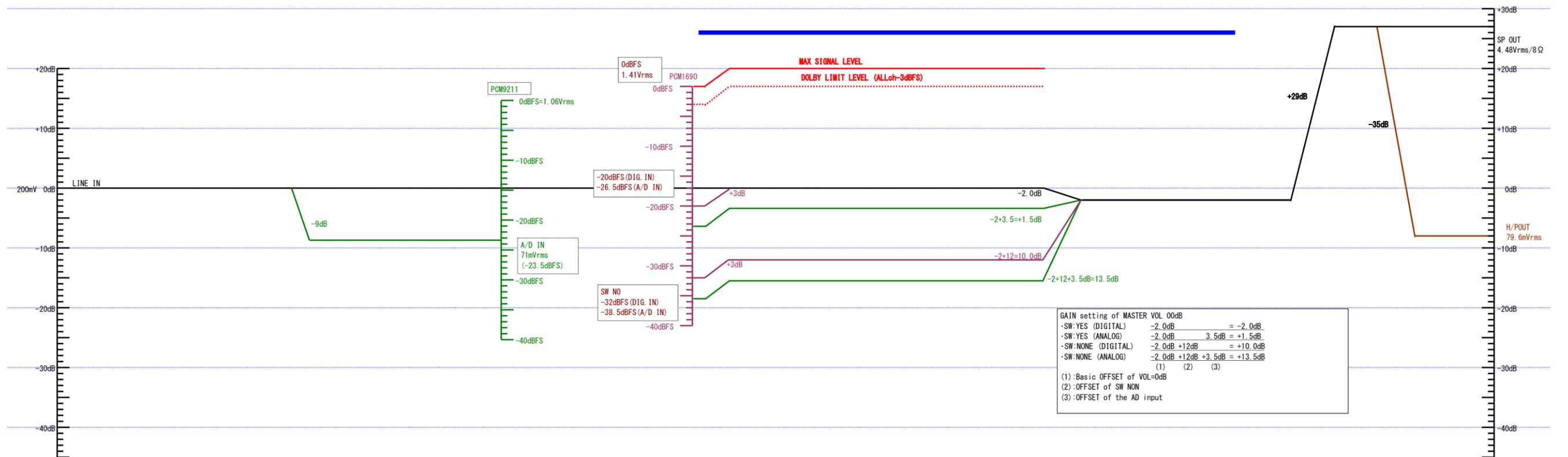
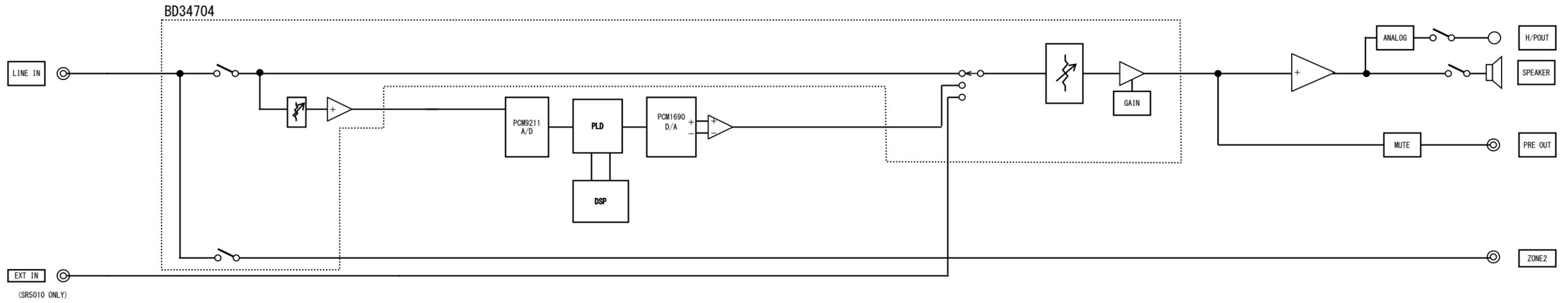
CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

WAVE FORM

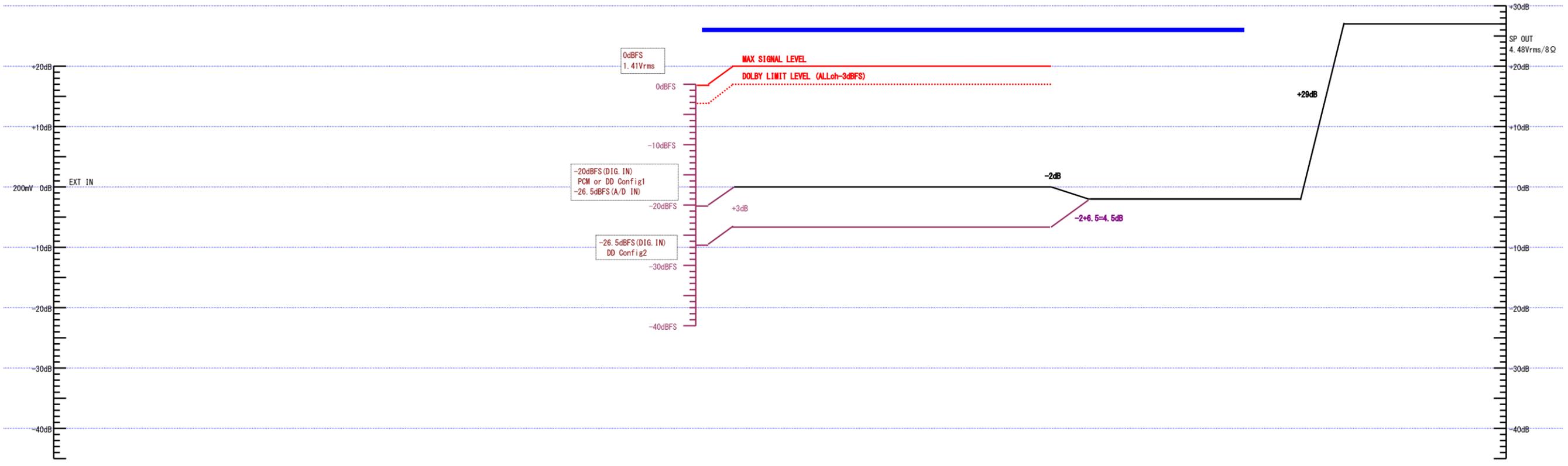
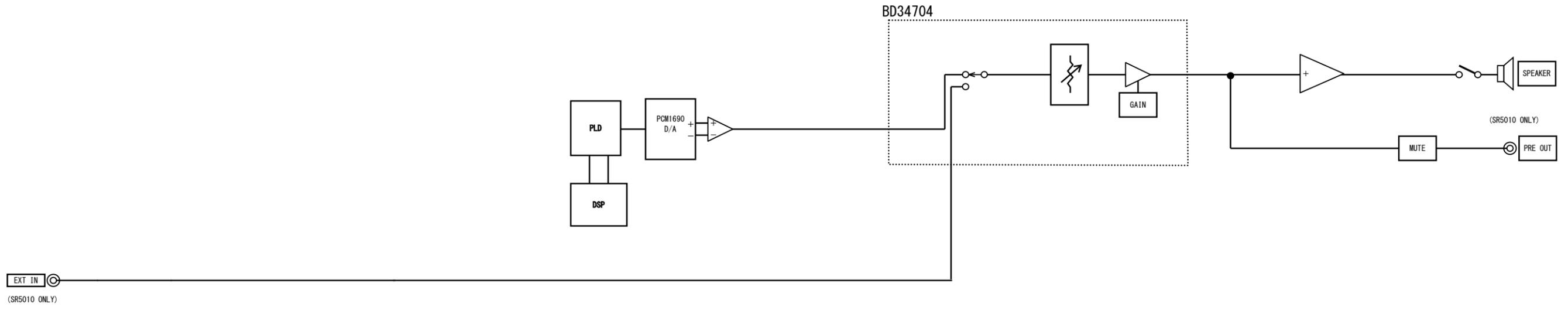


LEVEL DIAGRAM

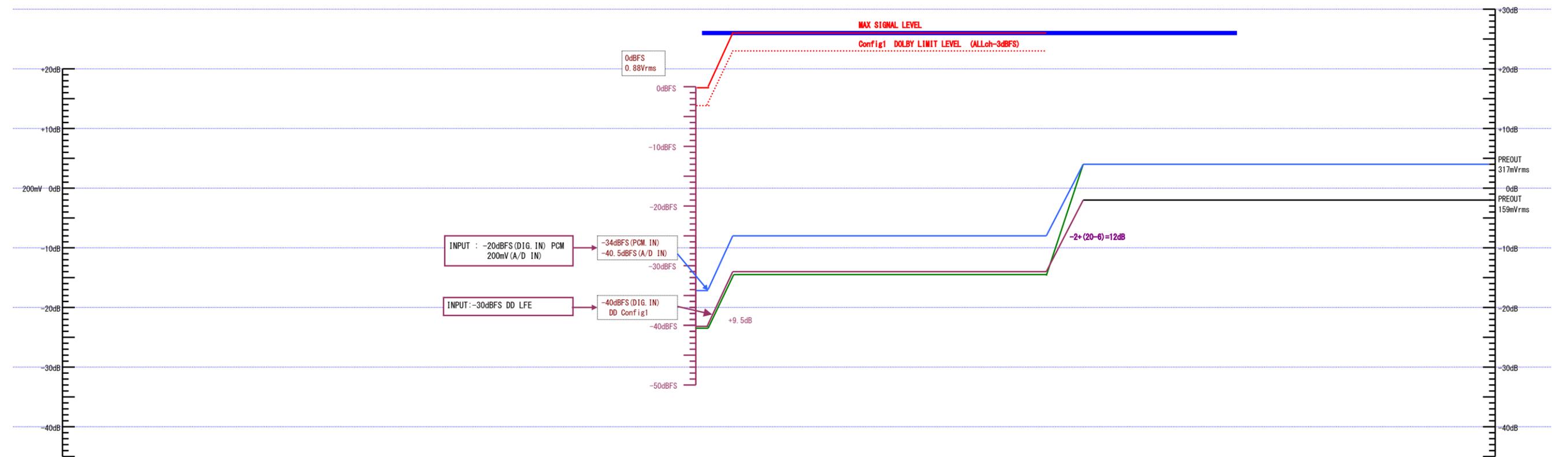
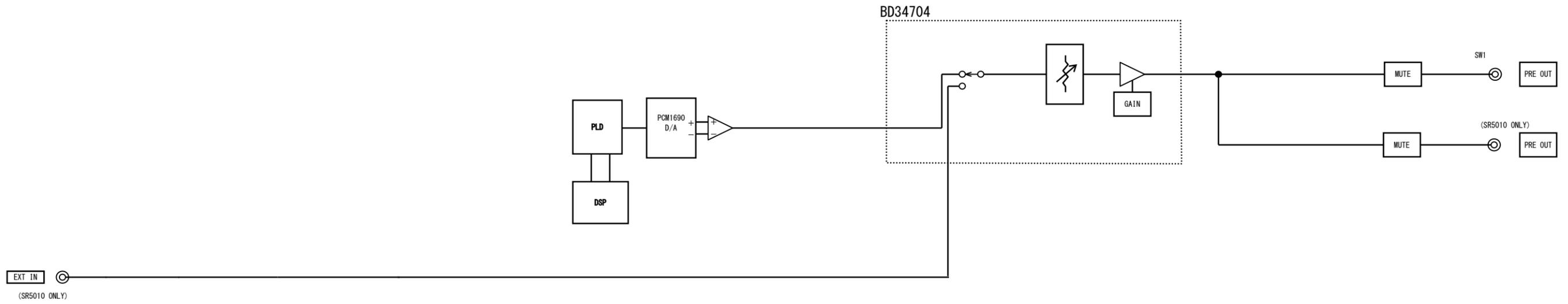
LEVEL DIAGRAM FRONT ch



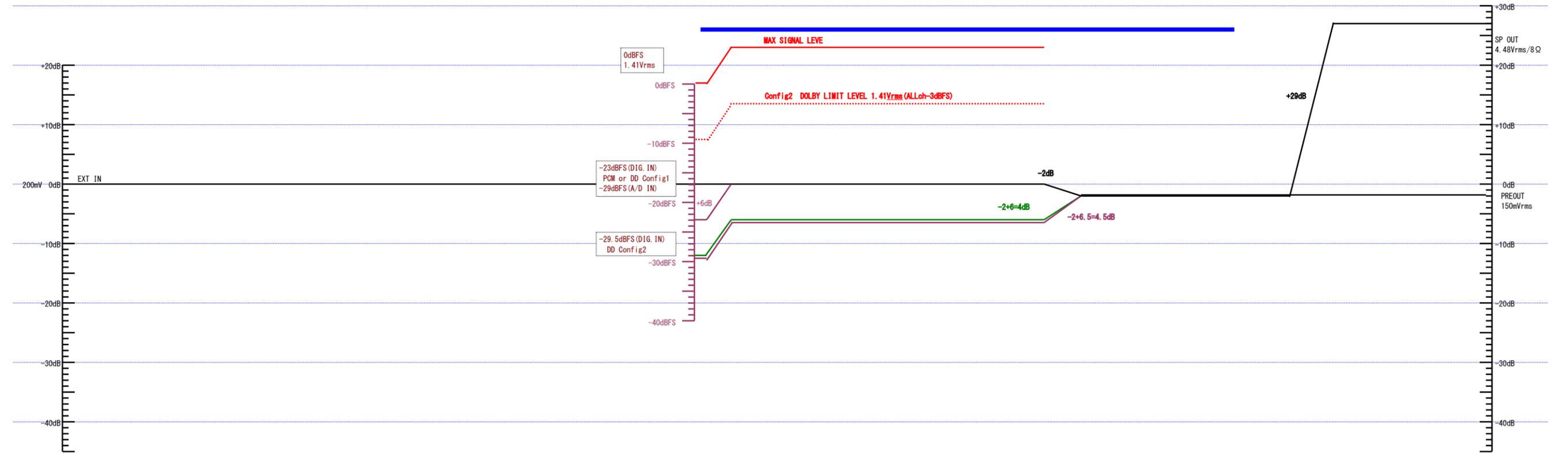
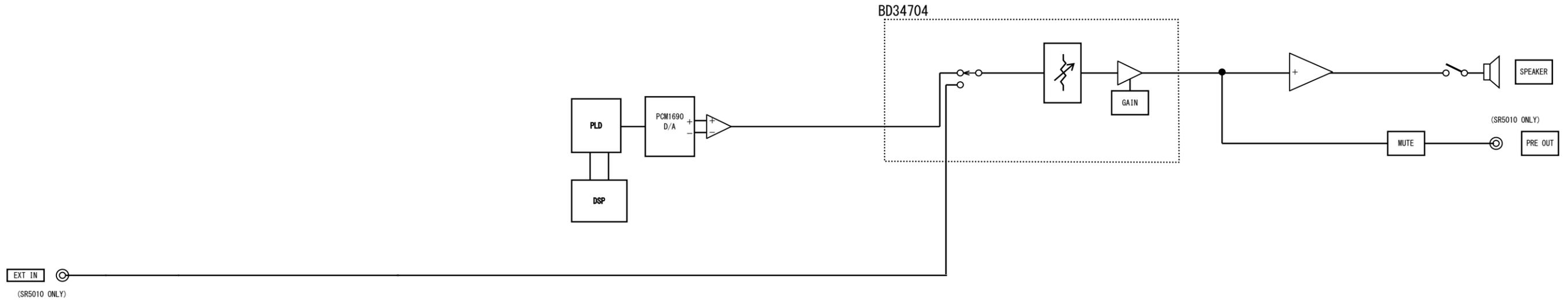
LEVEL DIAGRAM CENTER ch



**LEVEL DIAGRAM
SUBWOOFER ch**

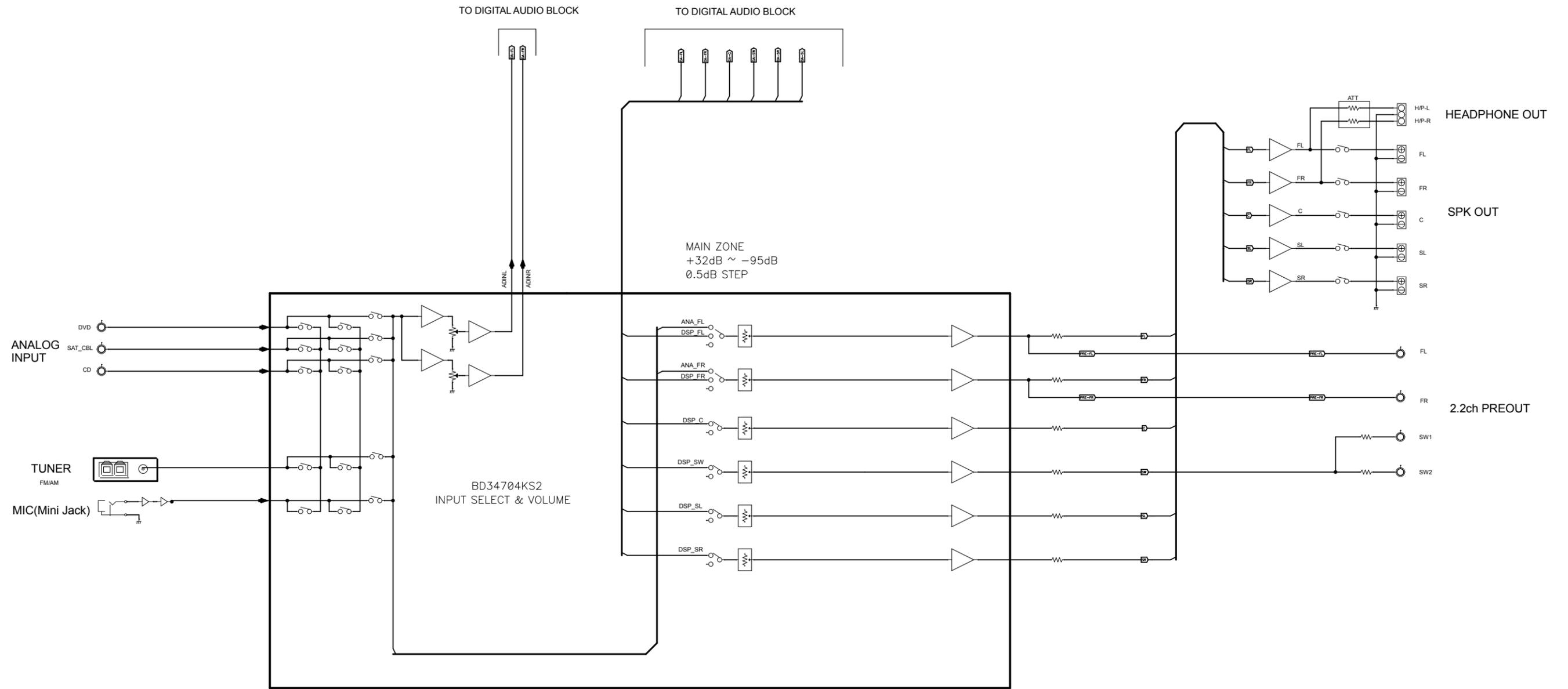


LEVEL DIAGRAM SURROUND ch

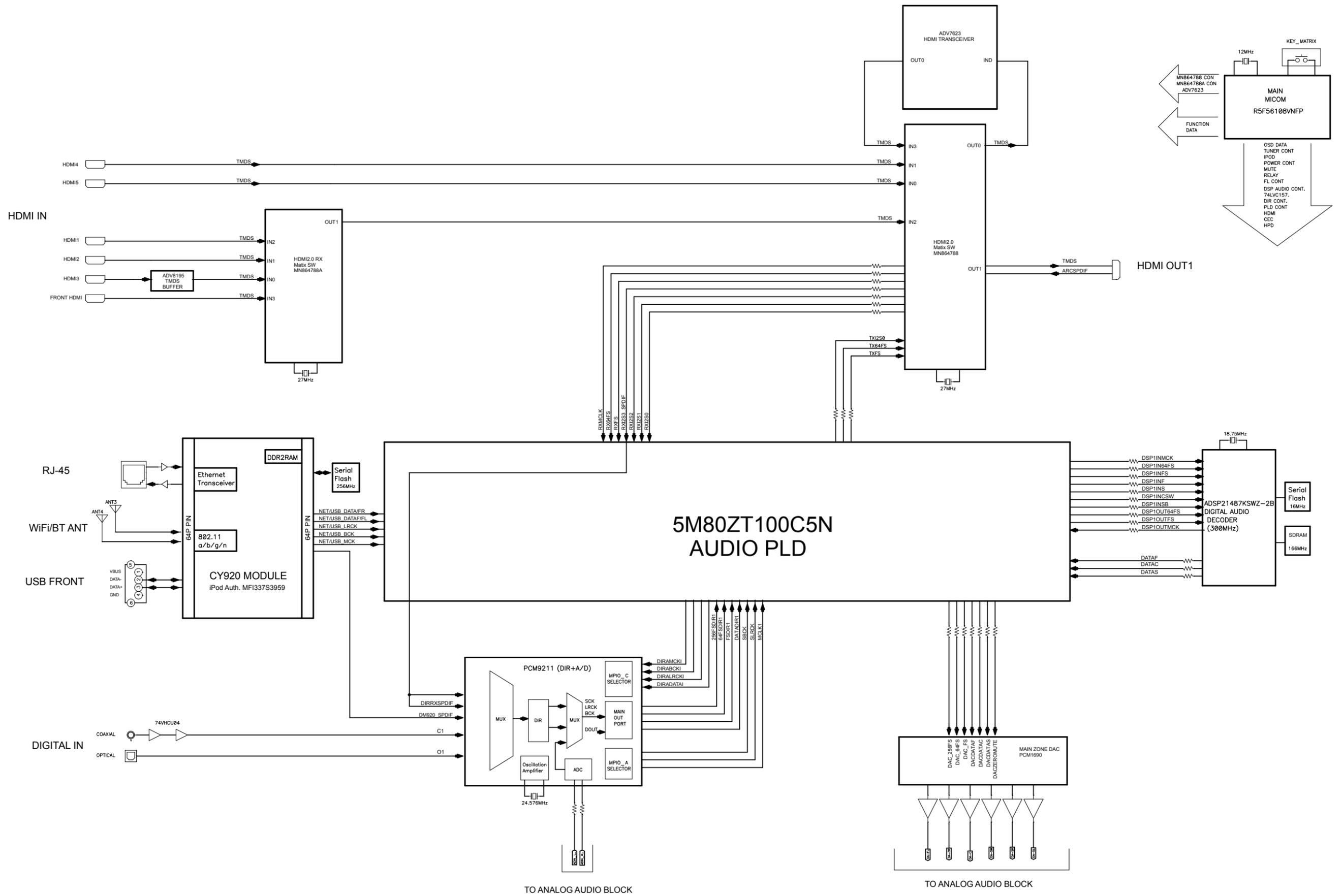


BLOCK DIAGRAM

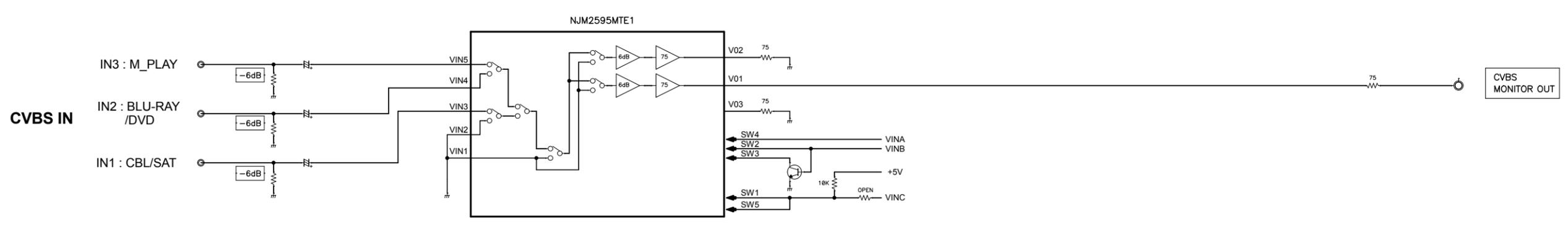
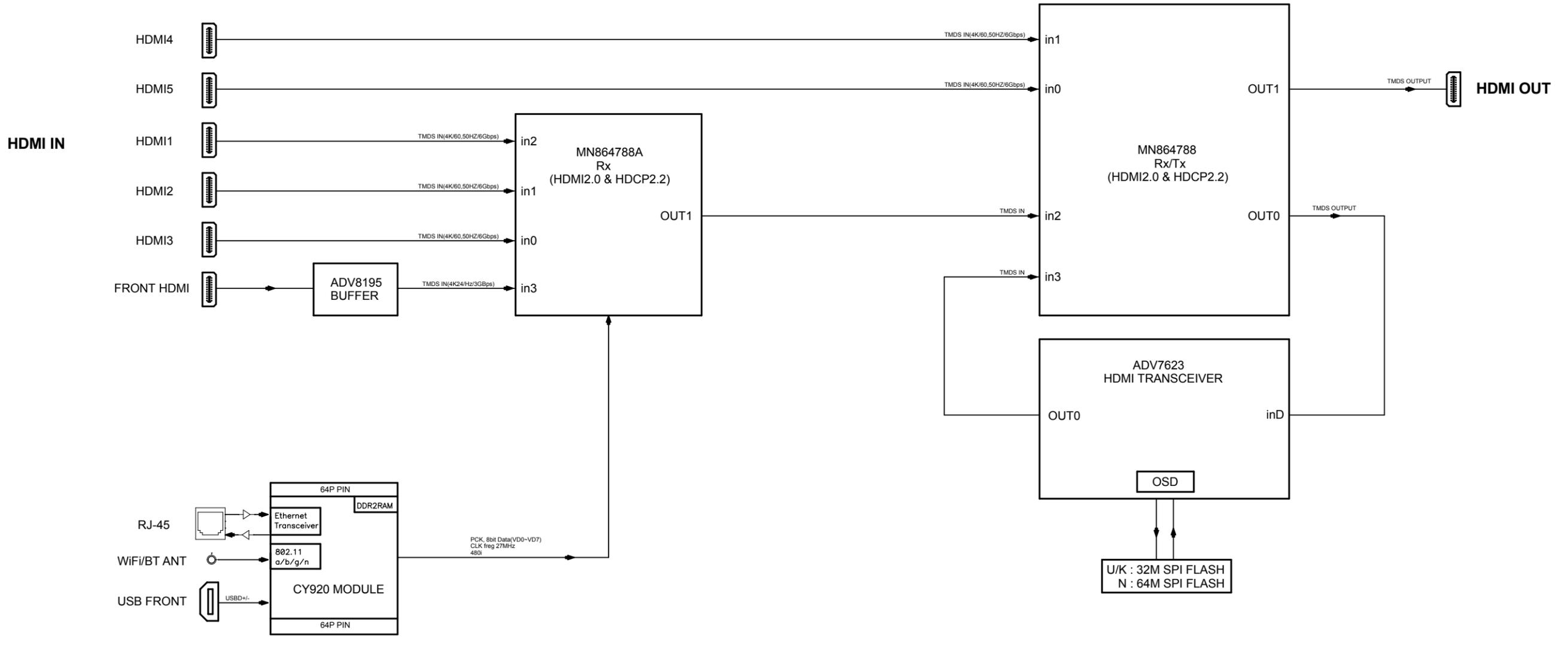
ANALOG AUDIO DIAGRAM



NR1506 DIGITAL AUDIO DIAGRAM



VIDEO DIAGRAM

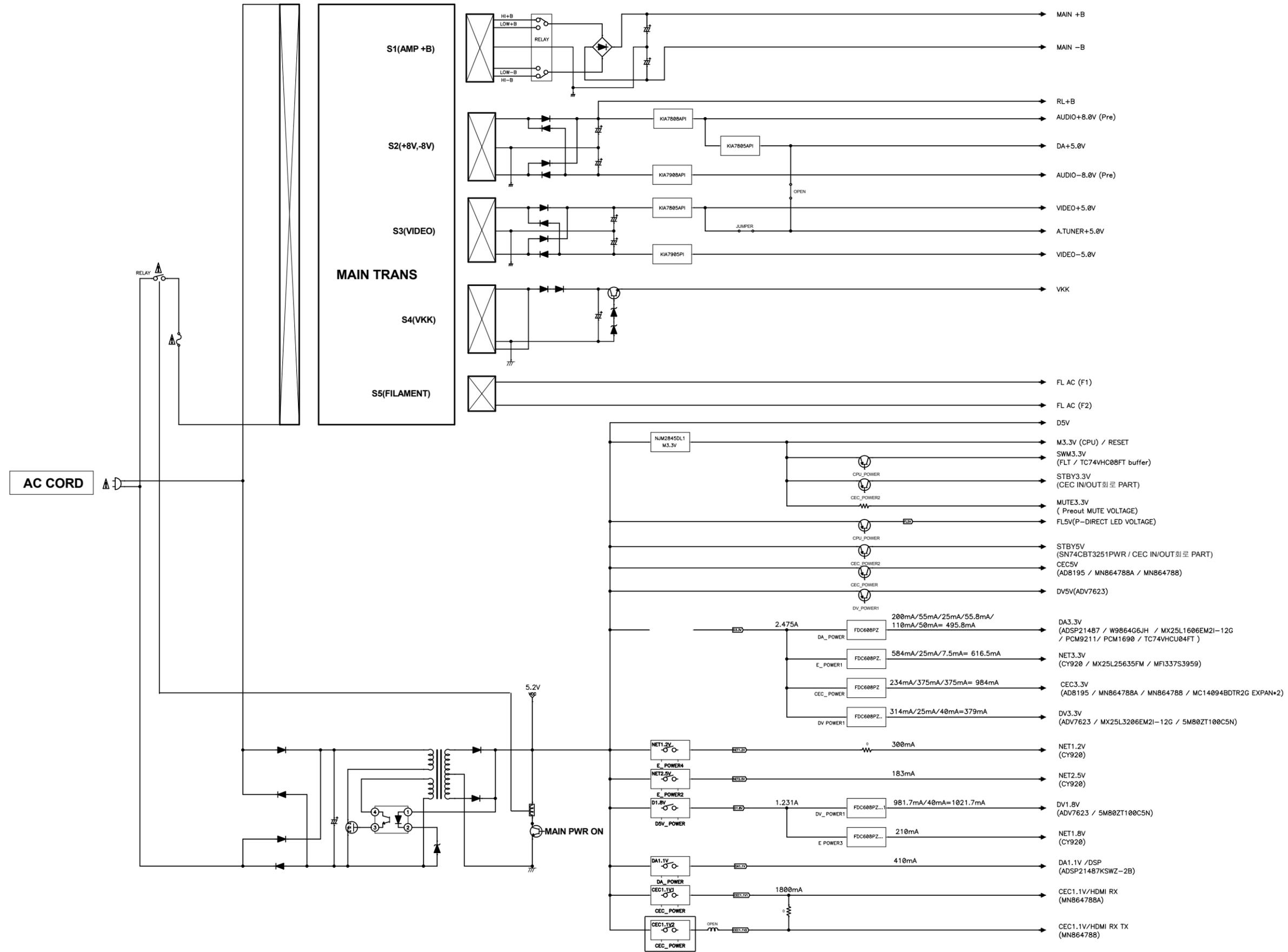


CVBS INPUT SW
NJM2595MTE1

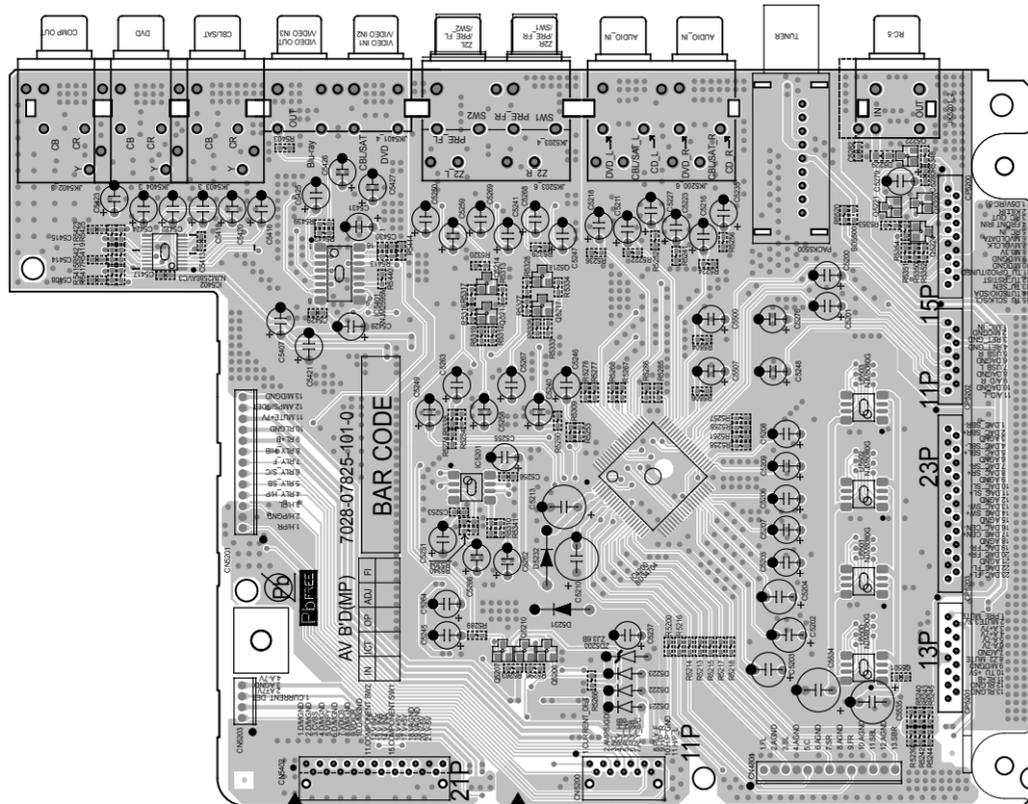
u-COM CON	IC CON					OUT PUT	NR1506	
VINA	VINB	VINC	SW1	SW2	SW3	SW4	SW5	
L	L	L	L	L	H	L	L	IN 1
L	L	H	H	L	H	L	H	IN 2
L	H	H	H	H	L	L	H	IN 3
H	H	H	H	H	L	H	H	IN 4
H	L	H	H	L	H	H	H	IN 5

POWER DIAGRAM

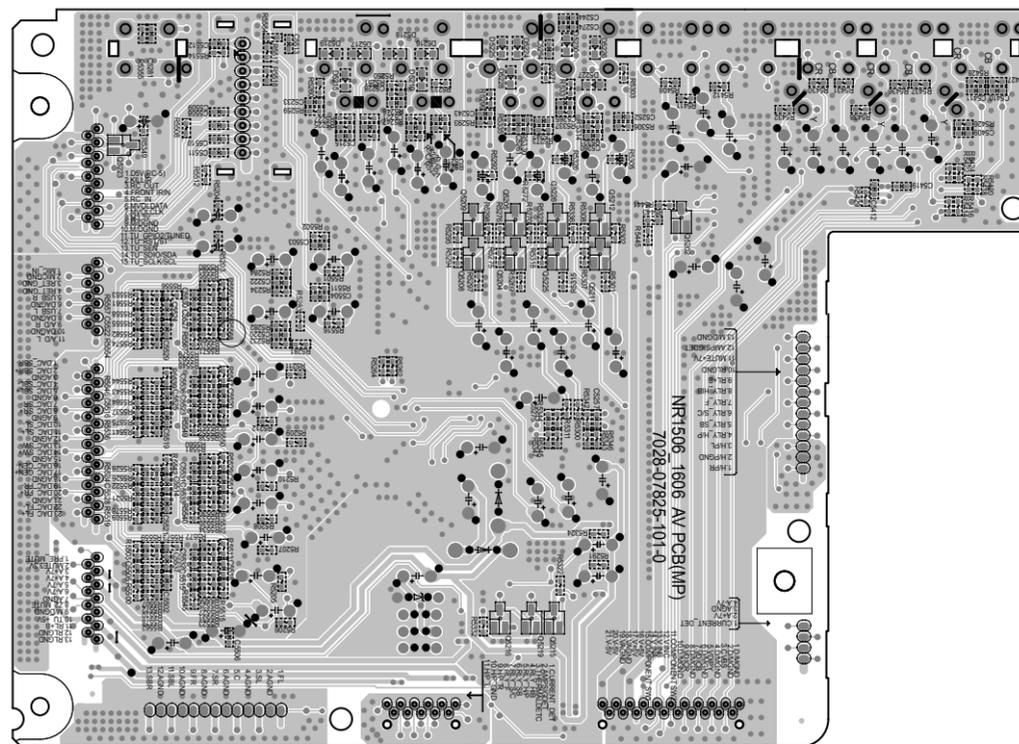
NR1506 VCC DIAGRAM



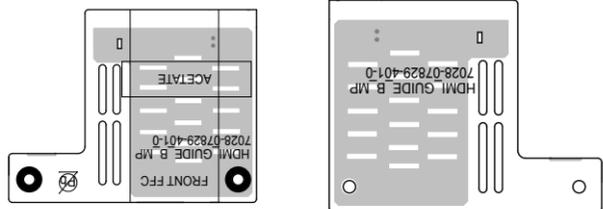
AV (A SIDE)



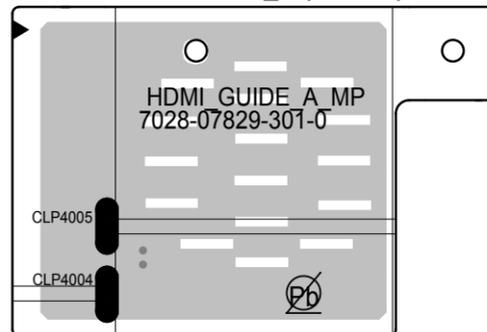
AV (B SIDE)



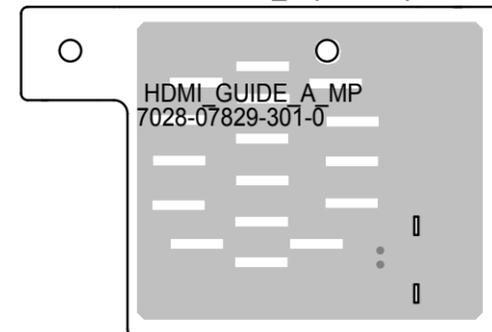
HDMI GUIDE_B (A SIDE) HDMI GUIDE_B (B SIDE)



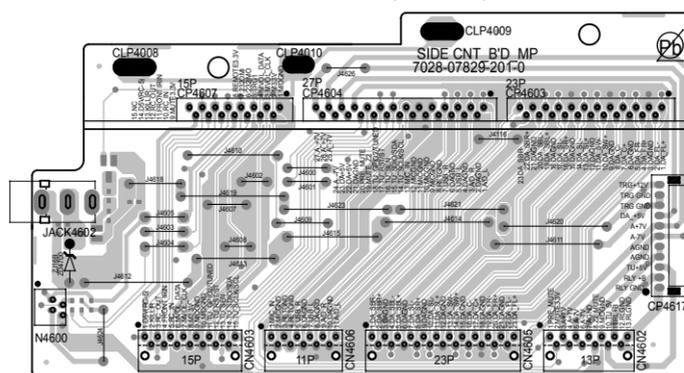
HDMI GUIDE_A (A SIDE)



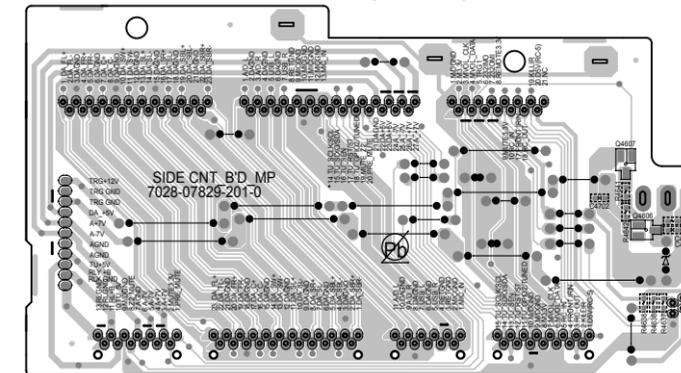
HDMI GUIDE_A (B SIDE)

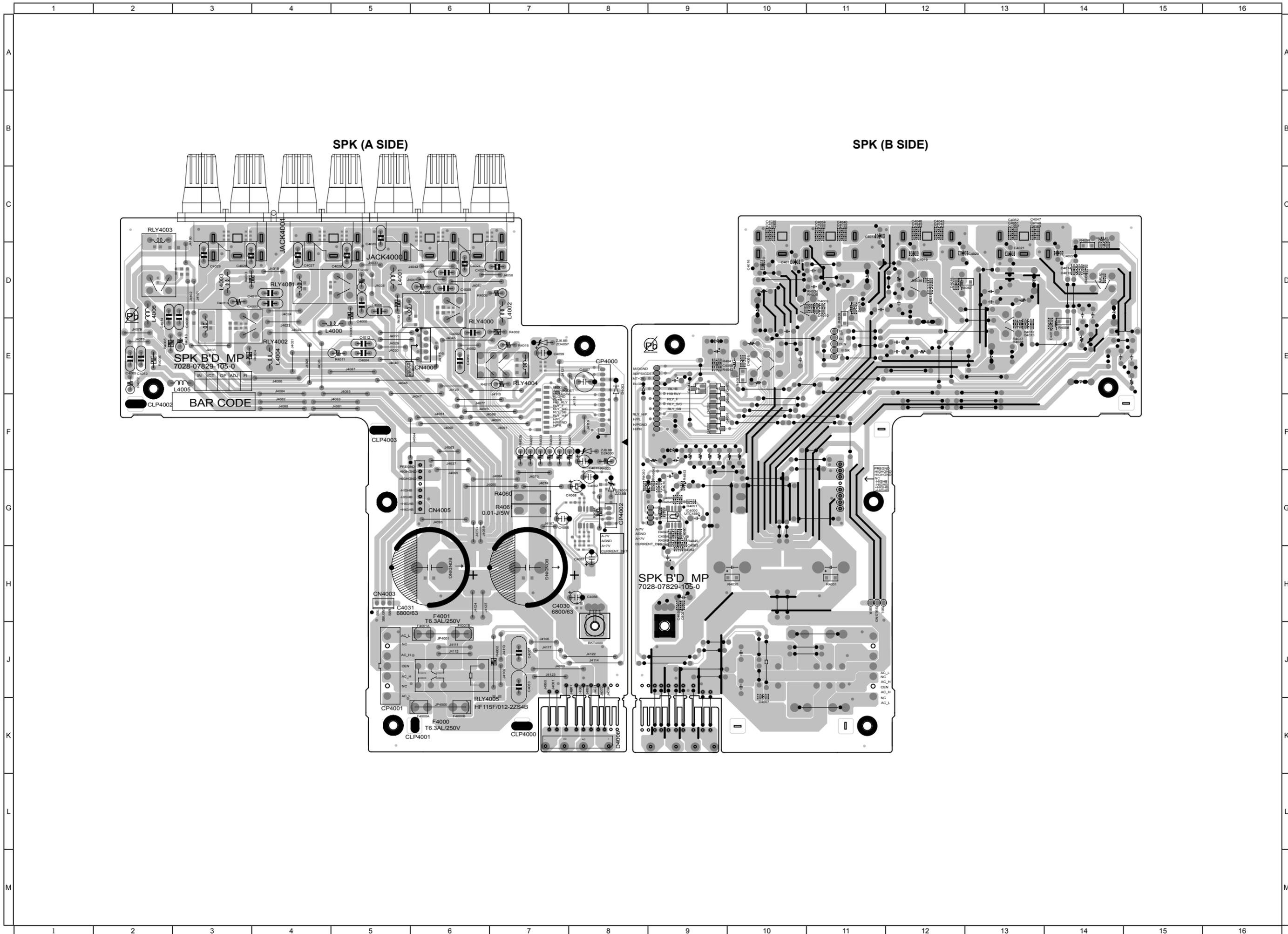


SIDE CNT (A SIDE)



SIDE CNT (B SIDE)



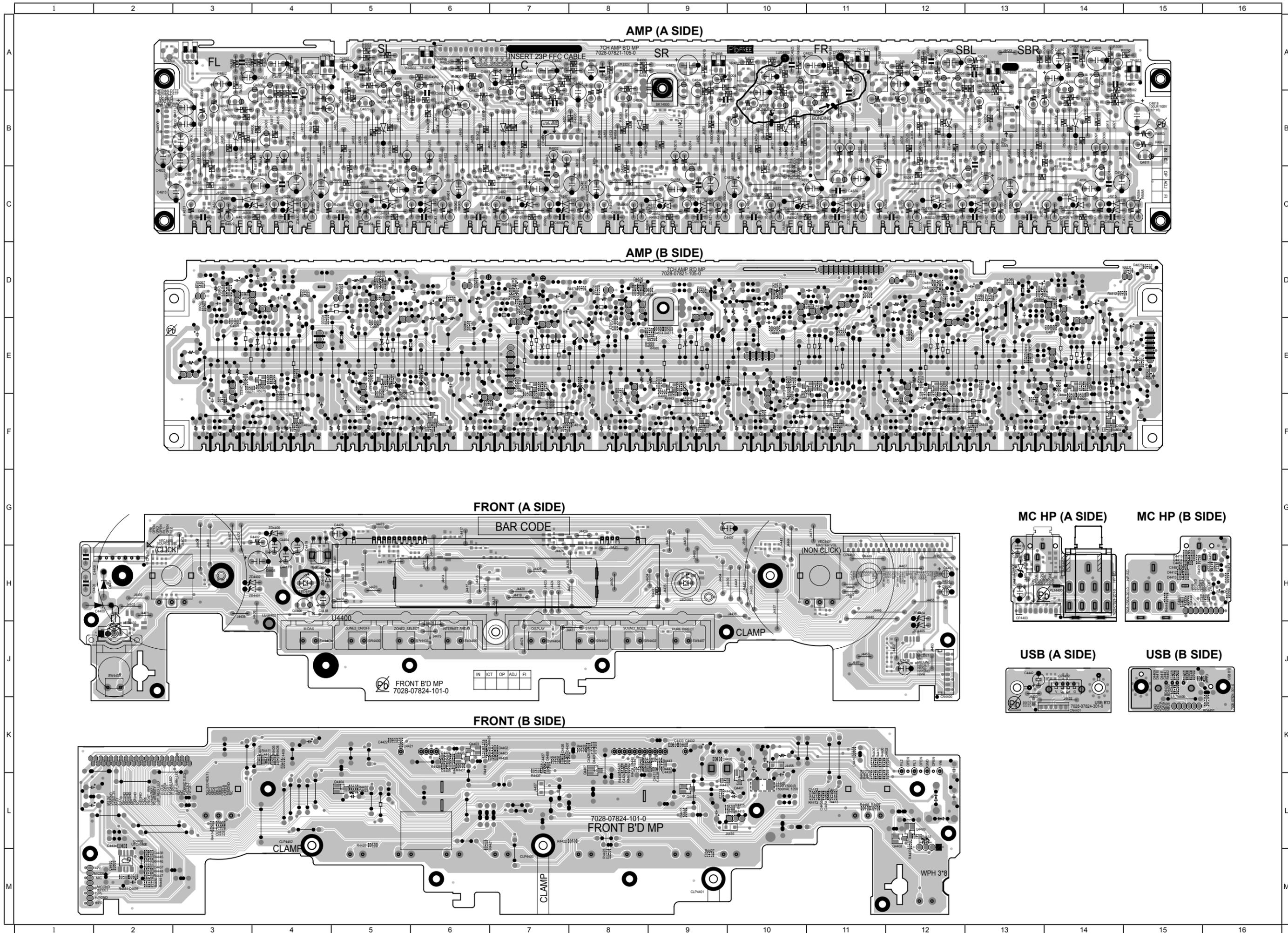


SPK (A SIDE)

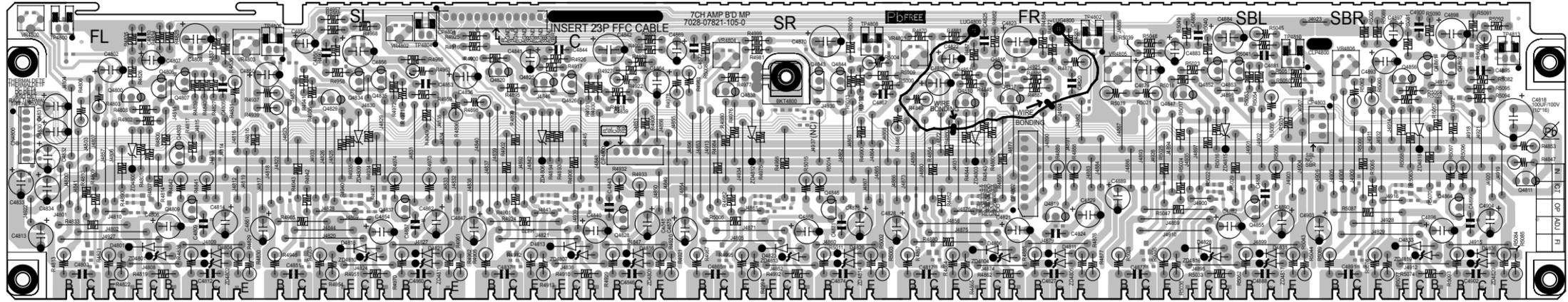
SPK (B SIDE)

SPK B'D MP
7028-07829-105-0
BAR CODE

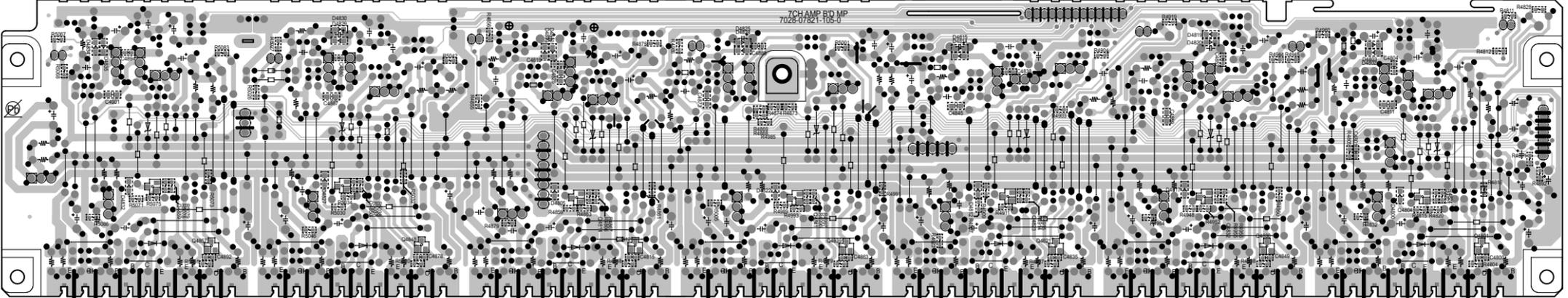
SPK B'D MP
7028-07829-105-0



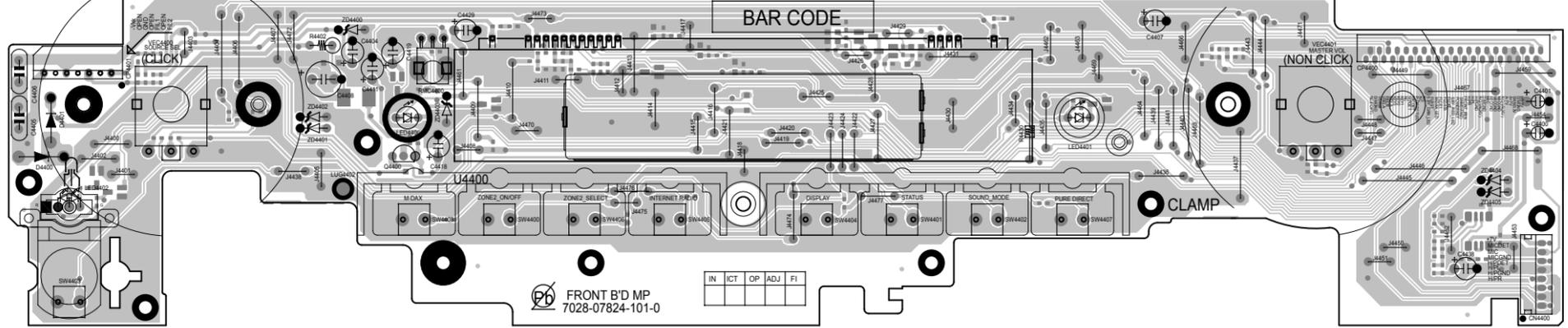
AMP (A SIDE)



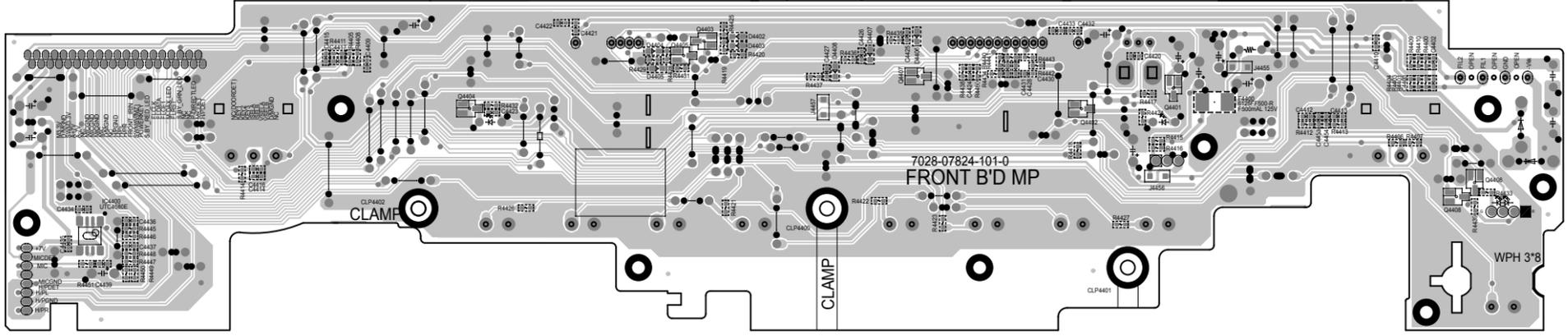
AMP (B SIDE)



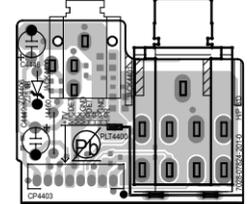
FRONT (A SIDE)



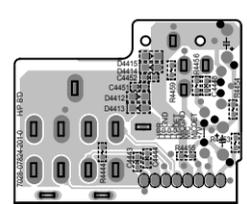
FRONT (B SIDE)



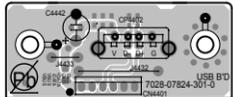
MC HP (A SIDE)



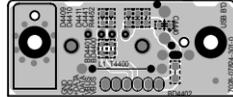
MC HP (B SIDE)

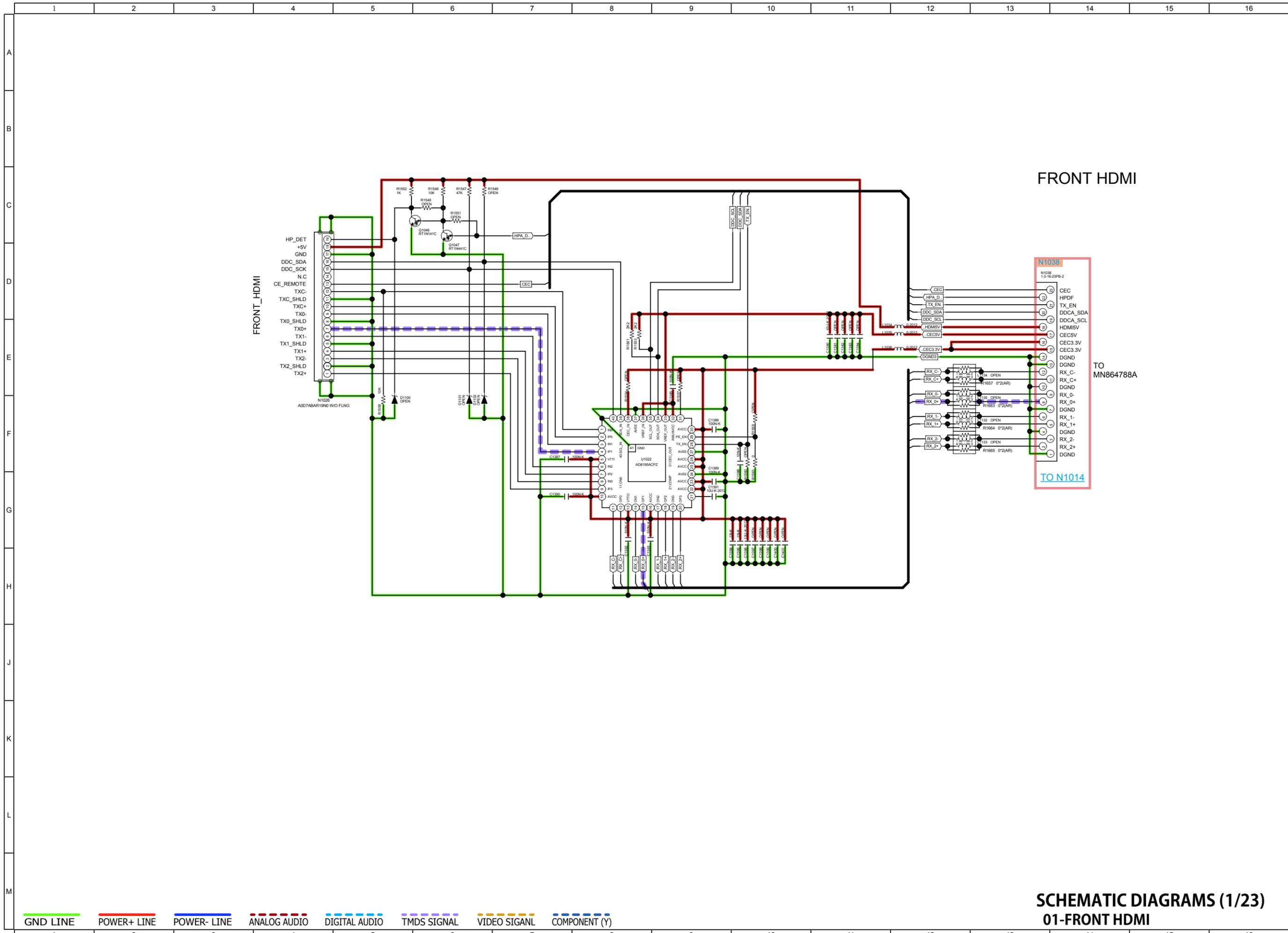


USB (A SIDE)



USB (B SIDE)





FRONT HDMI

N1038
1.0-16-23PB-2

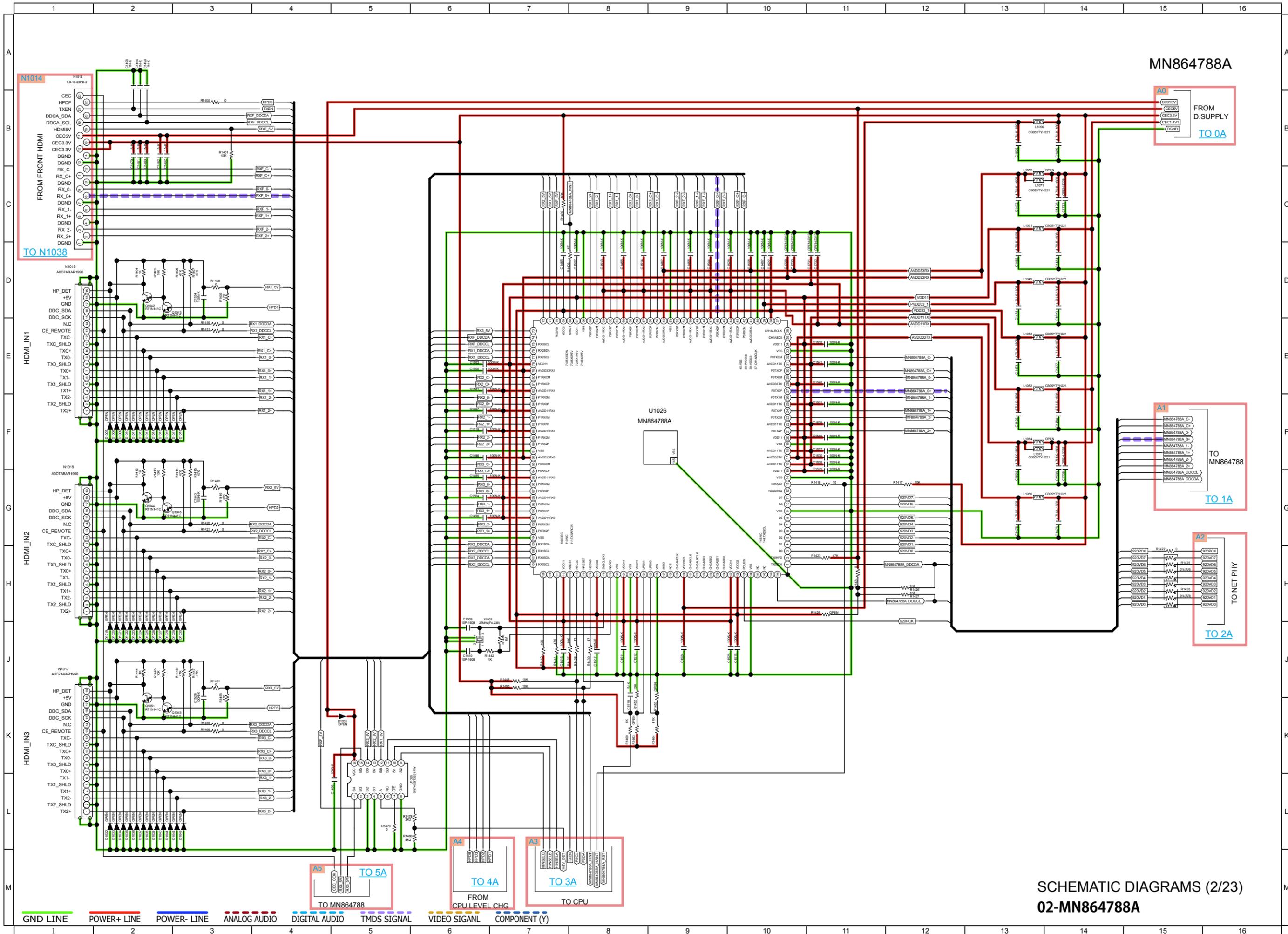
- CEC
- HPA_D
- TX_EN
- DDCA_SDA
- DDCA_SCL
- HDMI5V
- CEC5V
- CEC3.3V
- CEC3V
- DGND
- DGND
- RX_C-
- RX_C+
- DGND
- RX_0-
- RX_0+
- DGND
- RX_1-
- RX_1+
- DGND
- RX_2-
- RX_2+
- DGND

TO MN864788A

TO N1014

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

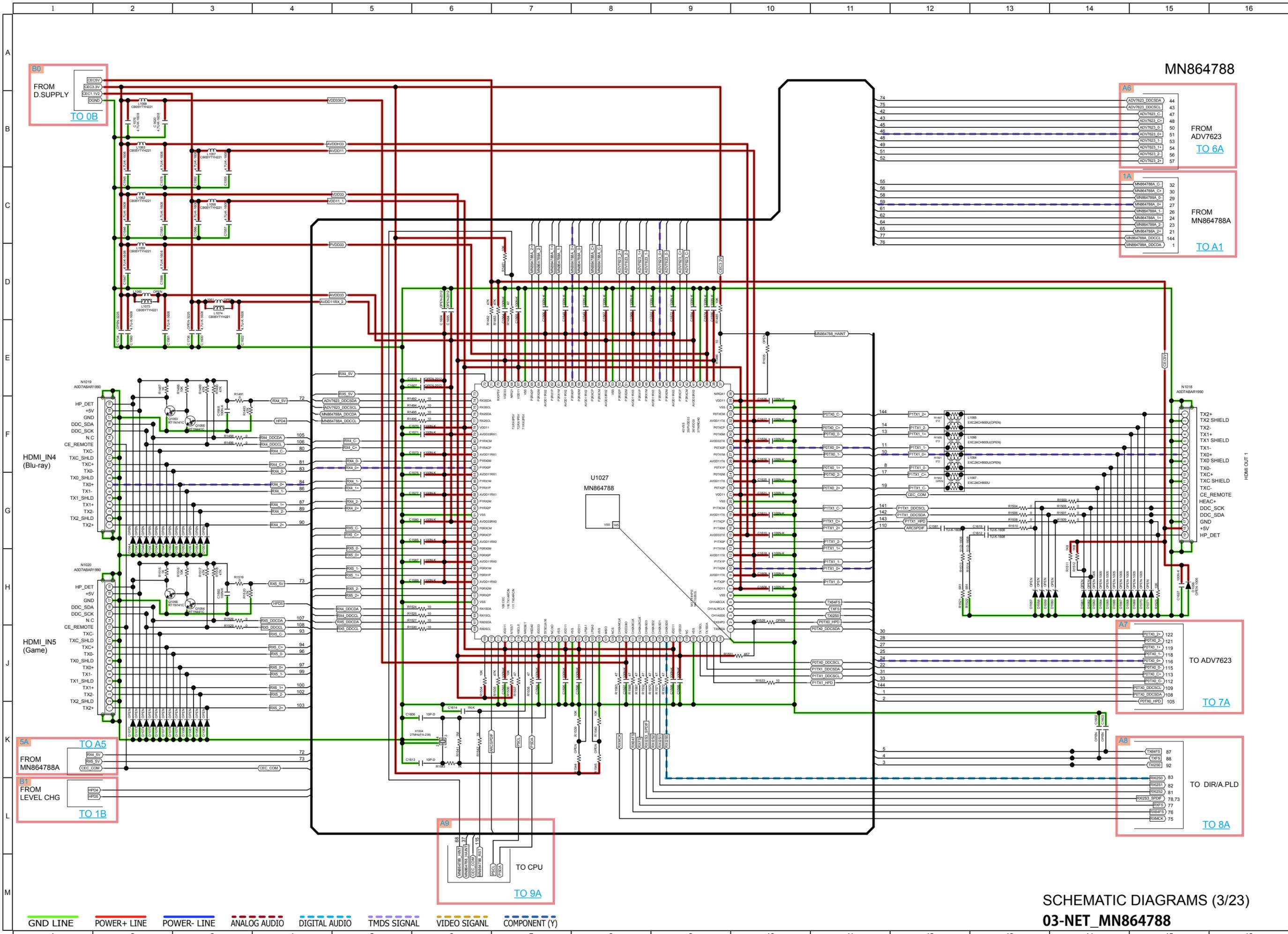
SCHEMATIC DIAGRAMS (1/23)
01-FRONT HDMI



MN864788A

SCHEMATIC DIAGRAMS (2/23)
02-MN864788A

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



MN864788

A6	ADV7623_DDCSDA	44
	ADV7623_DDCSCL	43
	ADV7623_C	47
	ADV7623_0	48
	ADV7623_1	51
	ADV7623_2	53
	ADV7623_3	54
	ADV7623_4	56
	ADV7623_5	57
1A	MN864788A_C	32
	MN864788A_0	30
	MN864788A_1	29
	MN864788A_2	27
	MN864788A_3	26
	MN864788A_4	24
	MN864788A_5	23
	MN864788A_DDCCL	21
	MN864788A_DDCDA	144
	MN864788A_DDCDA	1

FROM ADV7623
TO 6A

FROM MN864788A
TO A1

HDMI OUT 1

A7	POTX0_2+	122
	POTX0_2-	121
	POTX0_1+	119
	POTX0_1-	118
	POTX0_0+	116
	POTX0_0-	115
	POTX0_C+	113
	POTX0_C-	112
	POTX0_DCSCL	109
	POTX0_DDCSDA	108
	POTX0_HPD	105

TO ADV7623
TO 7A

A8	TX0F4FS	87
	TX0F5	88
	TX0F6	92
	TX0F7	83
	TX0F8	82
	TX0F9	81
	TX0F10	78.73
	TX0F11	77
	TX0F12	76
	TX0F13	75

TO DIRA.PLD
TO 8A

A9	MN864788_INT	58
	MN864788_HAINT	37
	CEC_COM	73
	MN864788_RST	123
	RST	72
	RESN	73

TO CPU
TO 9A

B0	CECV3V	72
	CECV1V2	73
	CECV0	74

FROM D.SUPPLY
TO 0B

5A	RX4_0V	72
	RX4_1V	73
	RX4_CCM	73

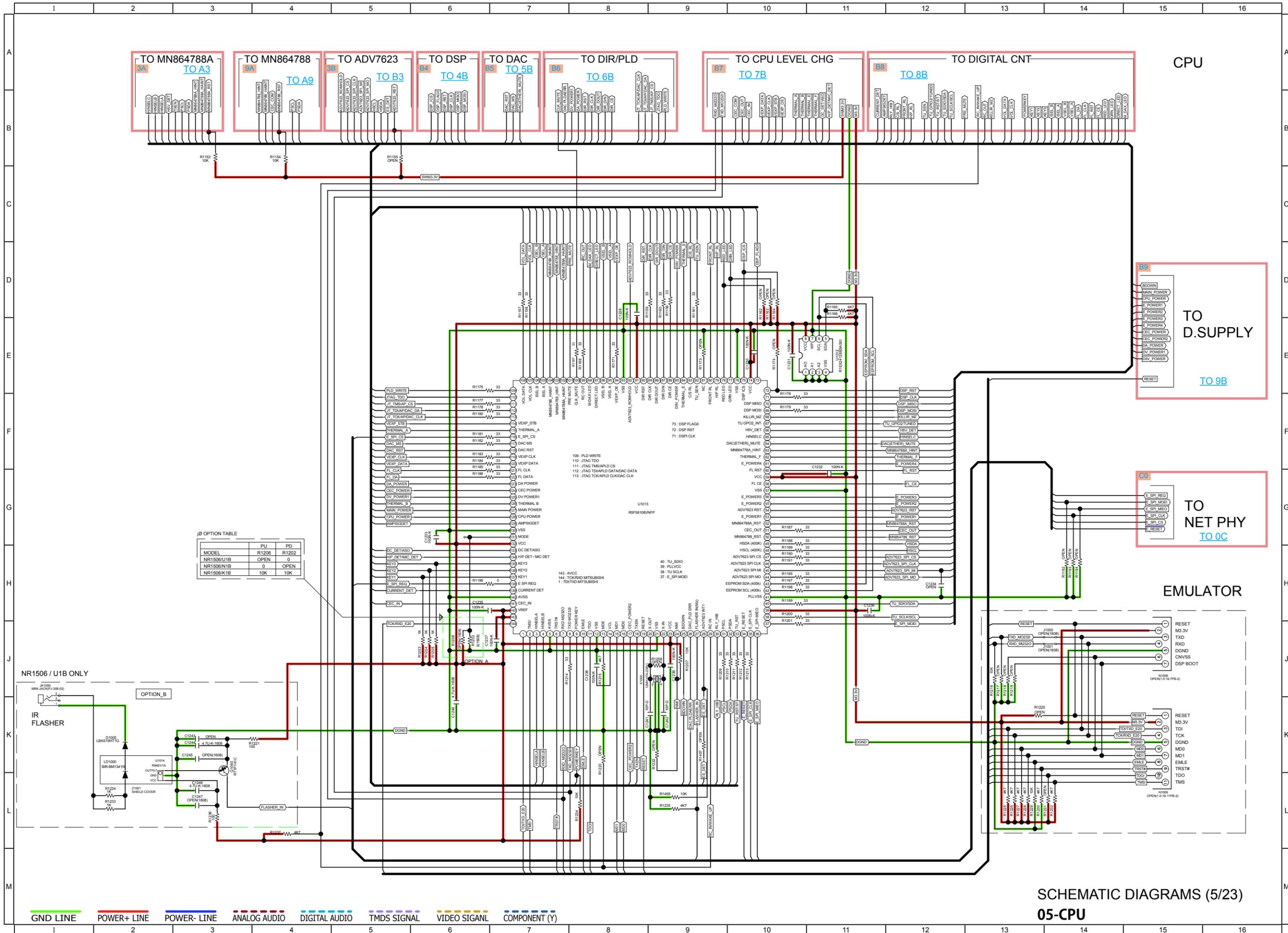
FROM MN864788A
TO A5

B1	HPD4	72
	HPD5	73

FROM LEVEL CHG
TO 1B

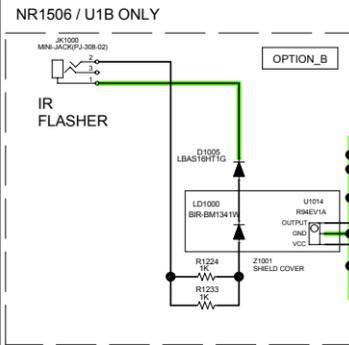
GND LINE POWER+ LINE POWER- LINE ANALOG AUDIO DIGITAL AUDIO TMDS SIGNAL VIDEO SIGNAL COMPONENT (Y)

SCHEMATIC DIAGRAMS (3/23)
03-NET_MN864788



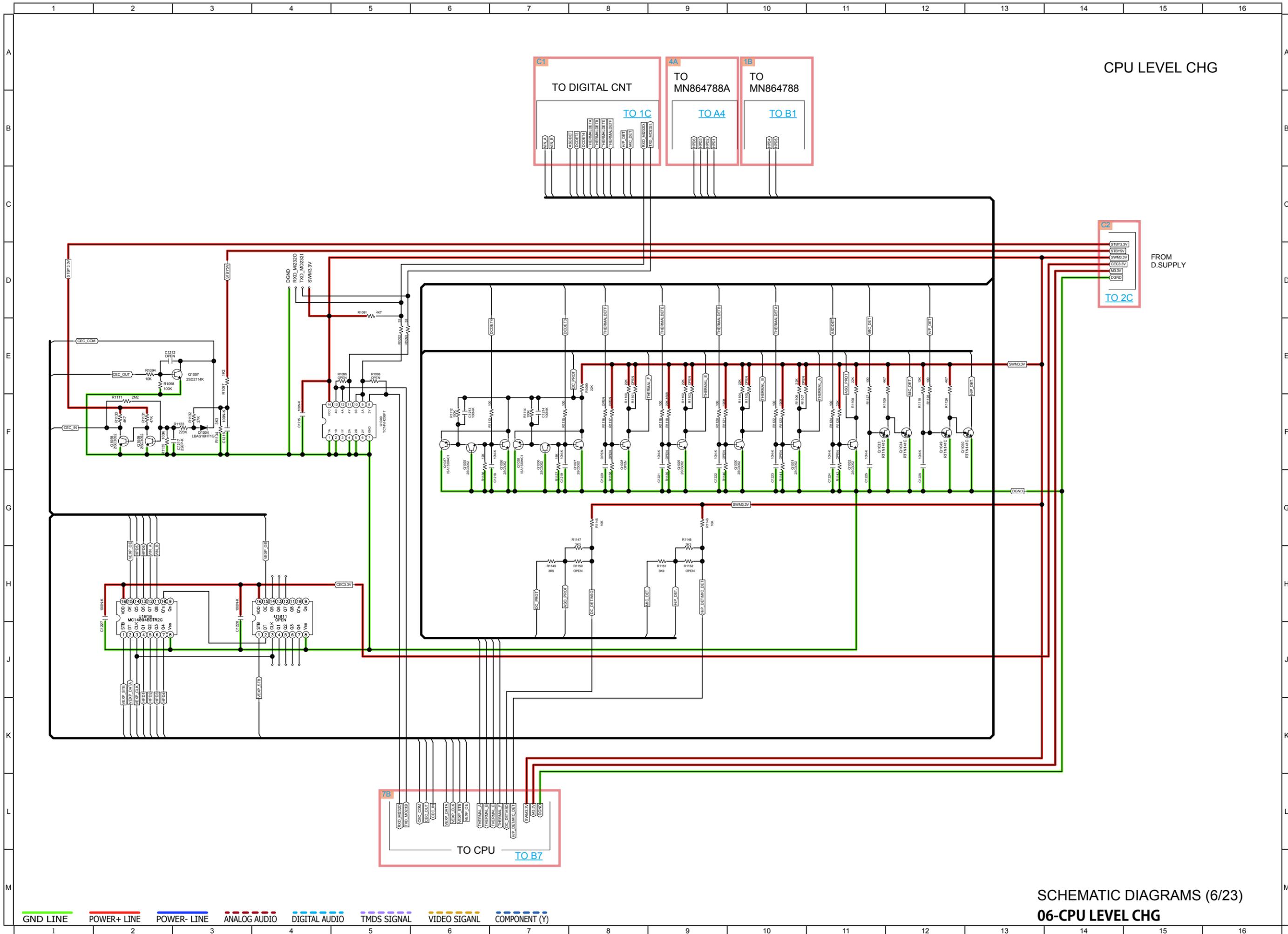
OPTION TABLE

MODEL	PU	PD
NR1506/U1B	R1206	R1202
NR1506/N1B	OPEN	0
NR1506/K1B	0	OPEN
	10K	10K

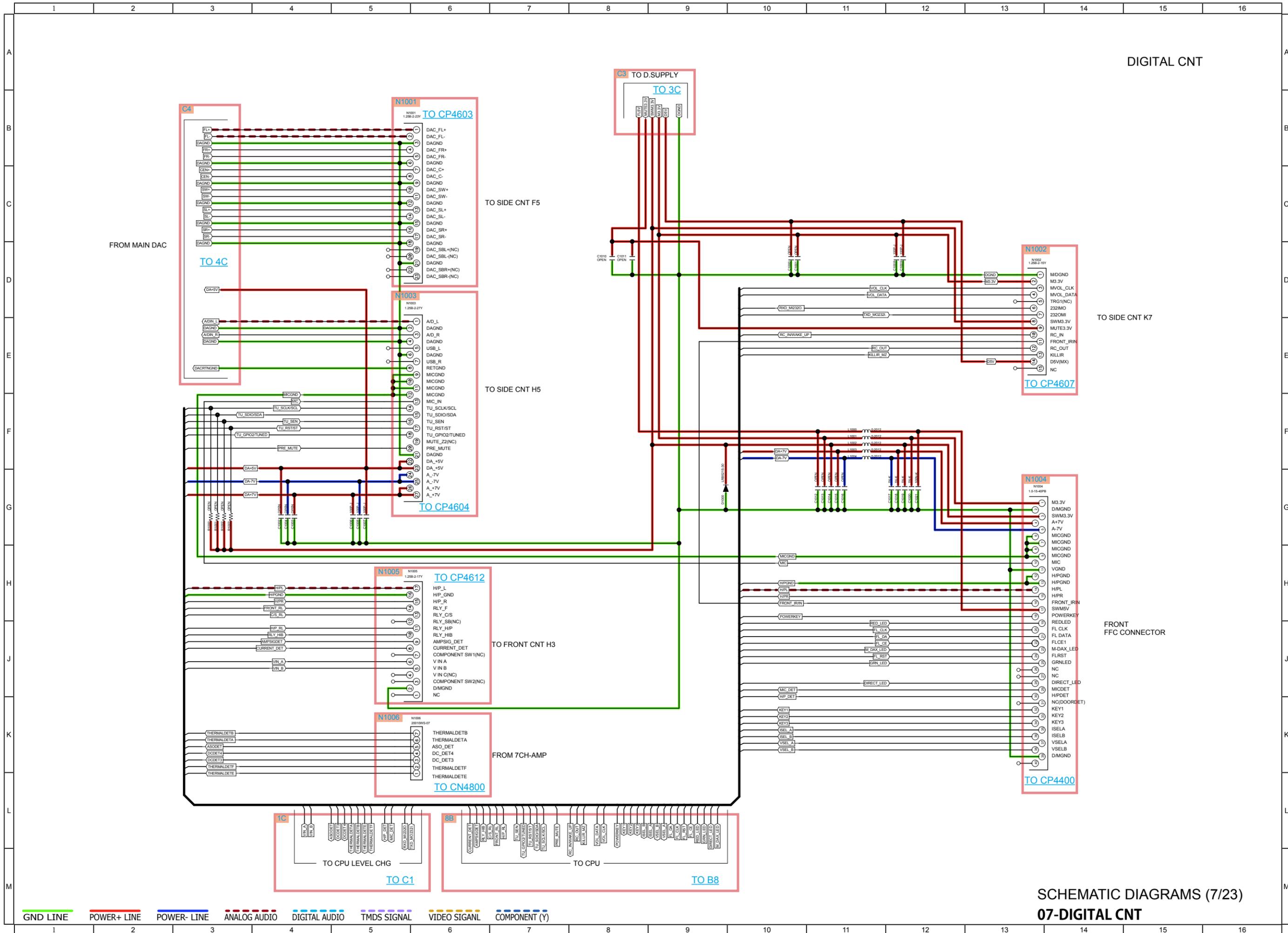


SCHEMATIC DIAGRAMS (5/23)
05-CPU

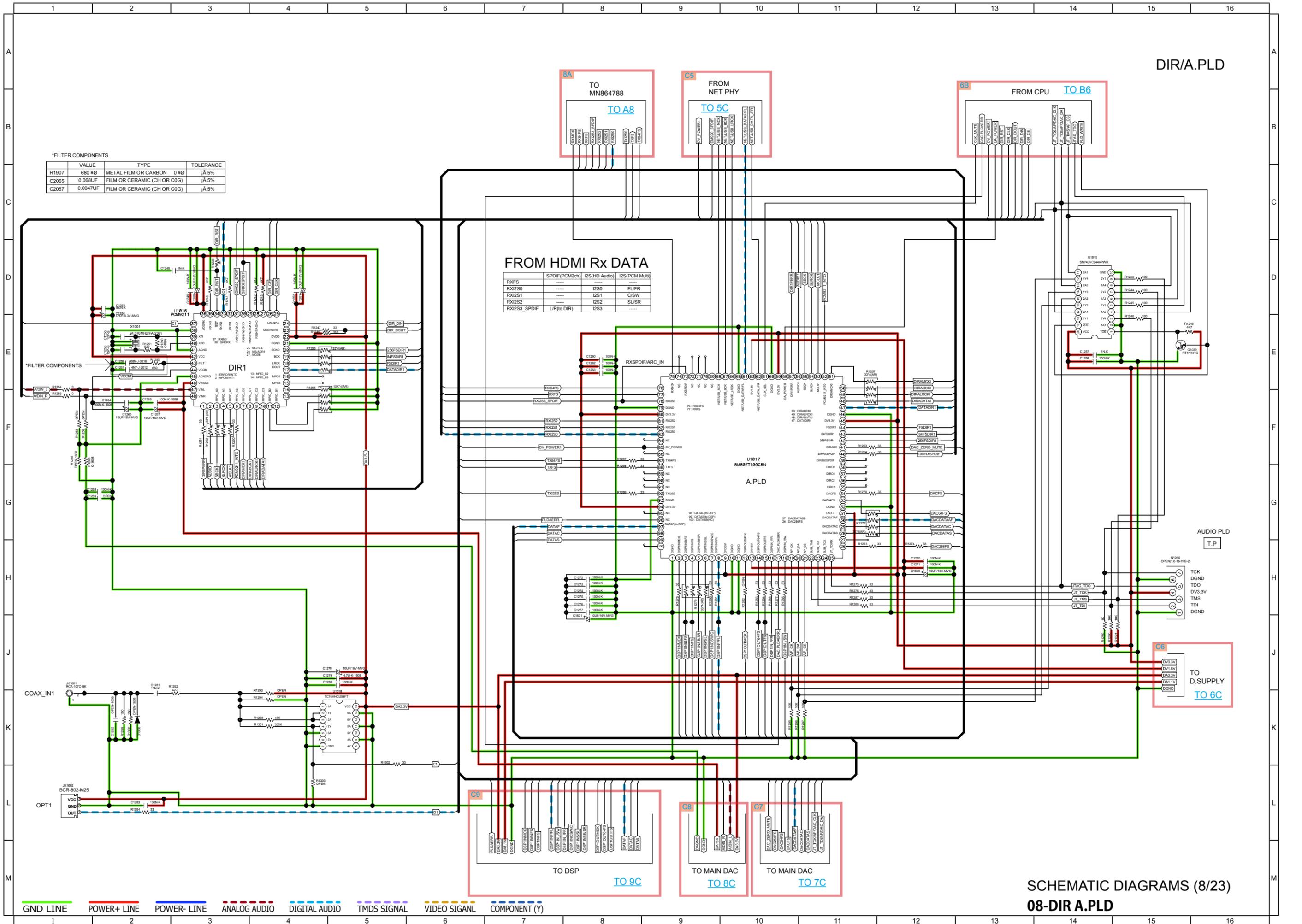
- GND LINE
- POWER+ LINE
- POWER- LINE
- ANALOG AUDIO
- DIGITAL AUDIO
- TMSD SIGNAL
- VIDEO SIGNAL
- COMPONENT (Y)



SCHEMATIC DIAGRAMS (6/23)
06-CPU LEVEL CHG



SCHMATIC DIAGRAMS (7/23)
07-DIGITAL CNT



DIR/A.PLD

*FILTER COMPONENTS

VALUE	TYPE	TOLERANCE
R1907 680 Ω	METAL FILM OR CARBON 0 WΩ	±5%
C2065 0.068UF	FILM OR CERAMIC (CH OR COG)	±5%
C2067 0.0047UF	FILM OR CERAMIC (CH OR COG)	±5%

FROM HDMI Rx DATA

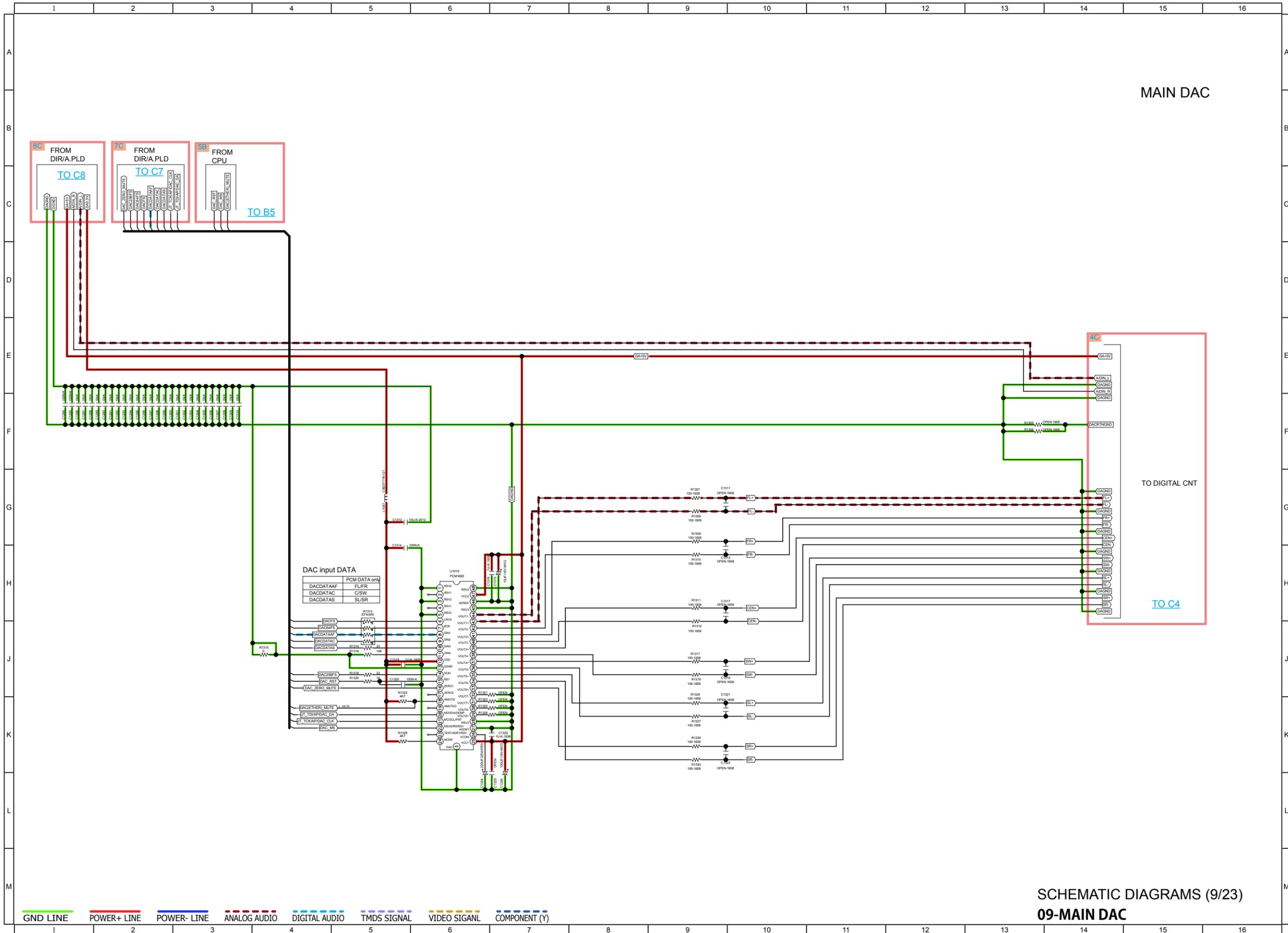
RXFS	SPDIF(PCM2ch)	I2S(HD Audio)	I2S(PCM Multi)
RX2S0	---	I2S0	FL/FR
RX2S1	---	I2S1	C/SR
RX2S2	---	I2S2	S/LSR
RX2S3 SPDIF	L/R(to DIR)	I2S3	---

AUDIO PLD
T.P.

TO D.SUPPLY
TO 6C

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

SCHEMATIC DIAGRAMS (8/23)
08-DIR A.PLD



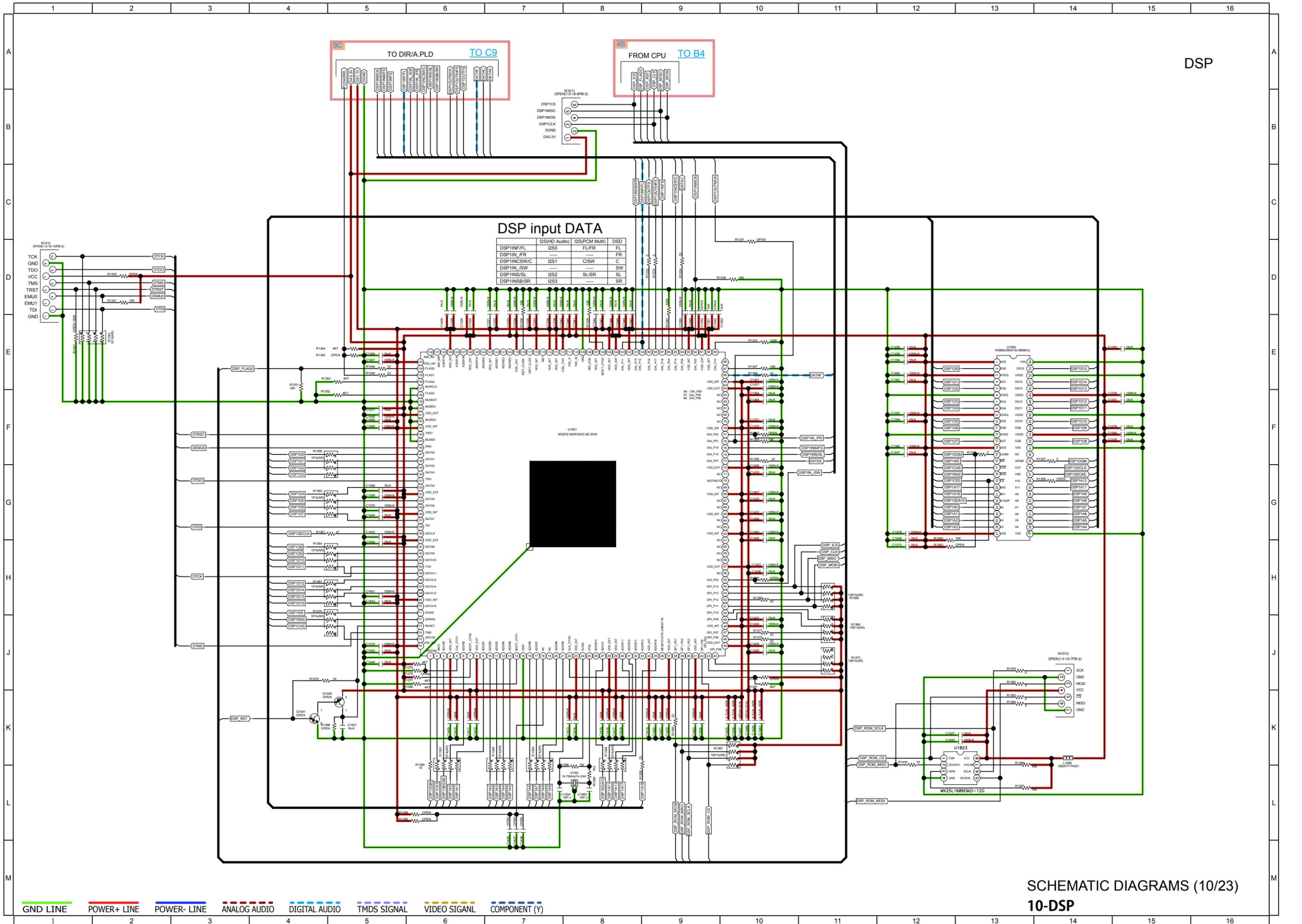
MAIN DAC

TO DIGITAL CNT

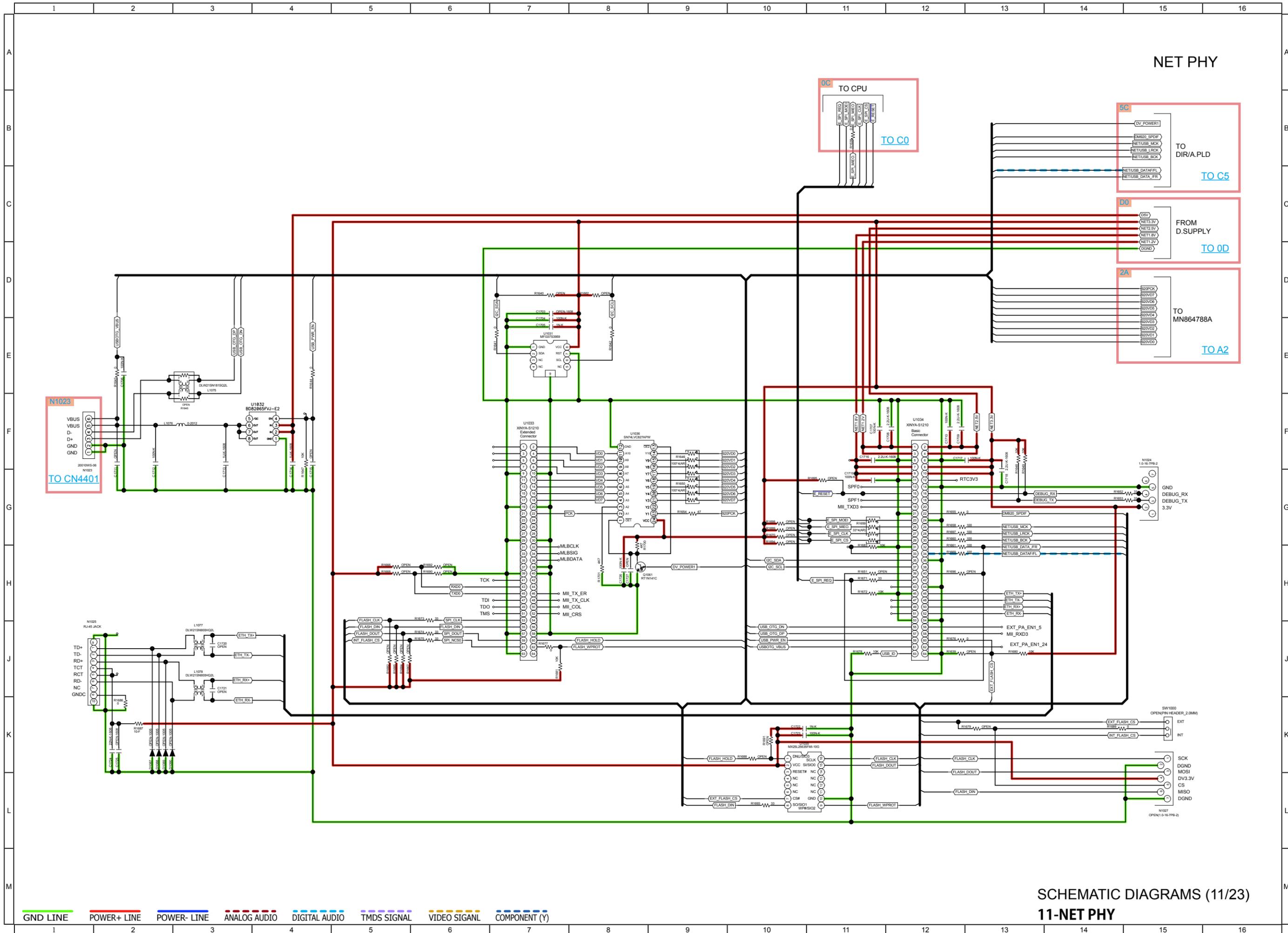
TO C4

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

SCHEMATIC DIAGRAMS (9/23)
09-MAIN DAC



SCHMATIC DIAGRAMS (10/23)
10-DSP



NET PHY

TO CPU
TO C0

TO DIR/A.PLD
TO C5

FROM D.SUPPLY
TO OD

TO MN864788A
TO A2

N1023
TO CN4401

N1024
GND
DEBUG_RX
DEBUG_TX
3.3V

N1025
RJ-45 JACK

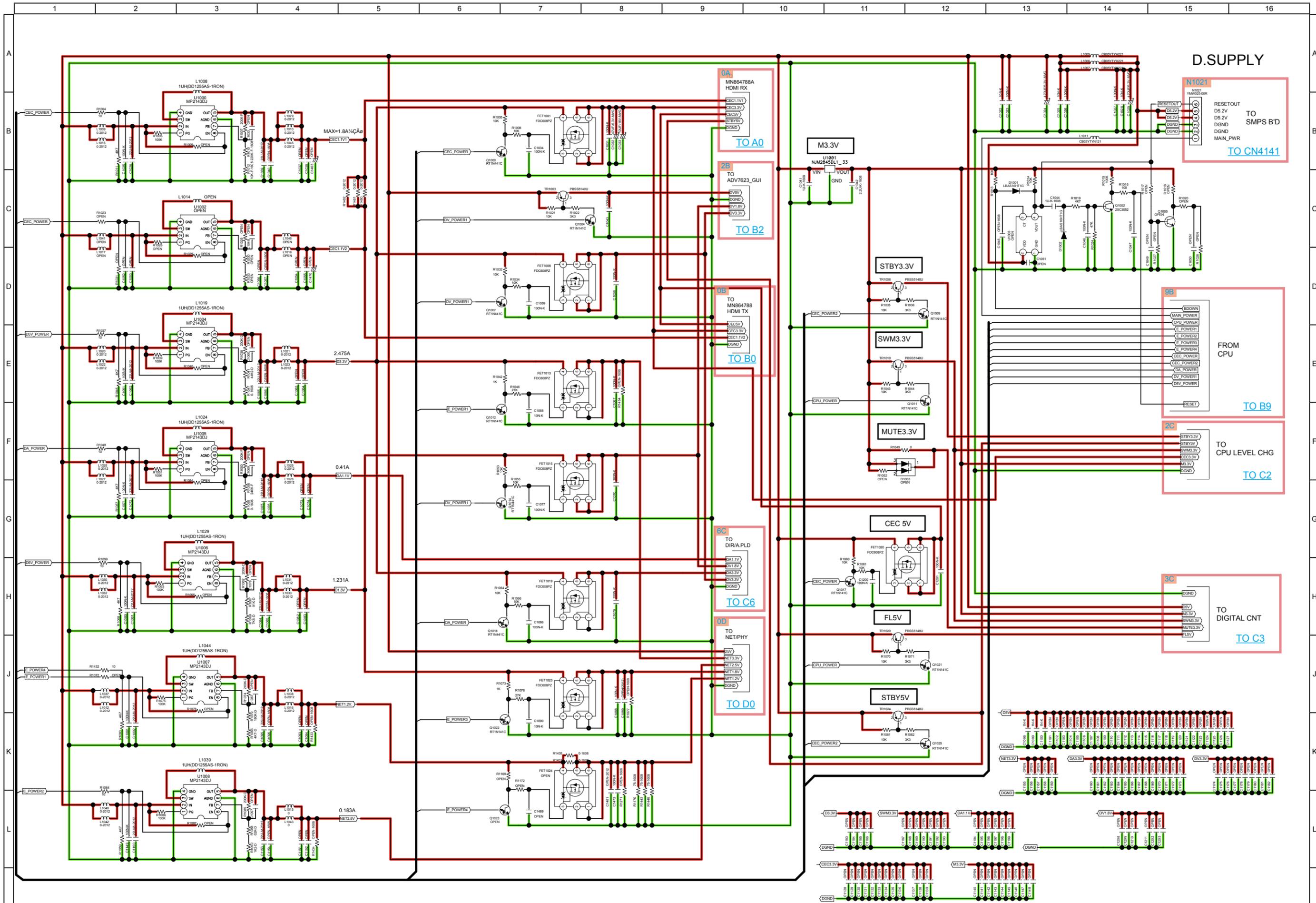
SW1000
OPEN/PM HEADER_2 (0MM)

EXT
INT

SCK
DGND
MOSI
DV3.3V
CS
MISO
DGND

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

SCHMATIC DIAGRAMS (11/23)
11-NET PHY



D.SUPPLY

N1021
VMM5050R

RESETOUT
DS 2V
DS 2V
DGND
DGND
MAIN_PWR

TO SMP5 B'D

TO CN4141

9B

FROM CPU

MAIN_POWER
CPU_POWER
E_POWER
E_POWER
E_POWER
CEC_POWER
DA_POWER
DV_POWER
RESET

TO B9

2C

TO CPU LEVEL CHG

STBY3.3V
STBY5V
SWM3.3V
CEC3.3V
M3.3V
DGND

TO C2

3C

TO DIGITAL CNT

DGND
DSV
FL5V
MUTES.3V
FL5V

TO C3

0A

MN864788A
HDMI RX

CEC1.1V
CEC3.3V
CEC5V
STBY5V
DGND

TO A0

2B

TO ADV7823_GUI

DV5V
DGND
DV1.8V
DV3.3V

TO B2

0B

TO MN864788
HDMI TX

CEC5V
CEC3.3V
CEC1.1V2
DGND

TO B0

6C

TO DIRA/PLD

DA1.1V
DV1.8V
DA3.3V
DV3.3V
DGND

TO C6

0D

TO NET/PHY

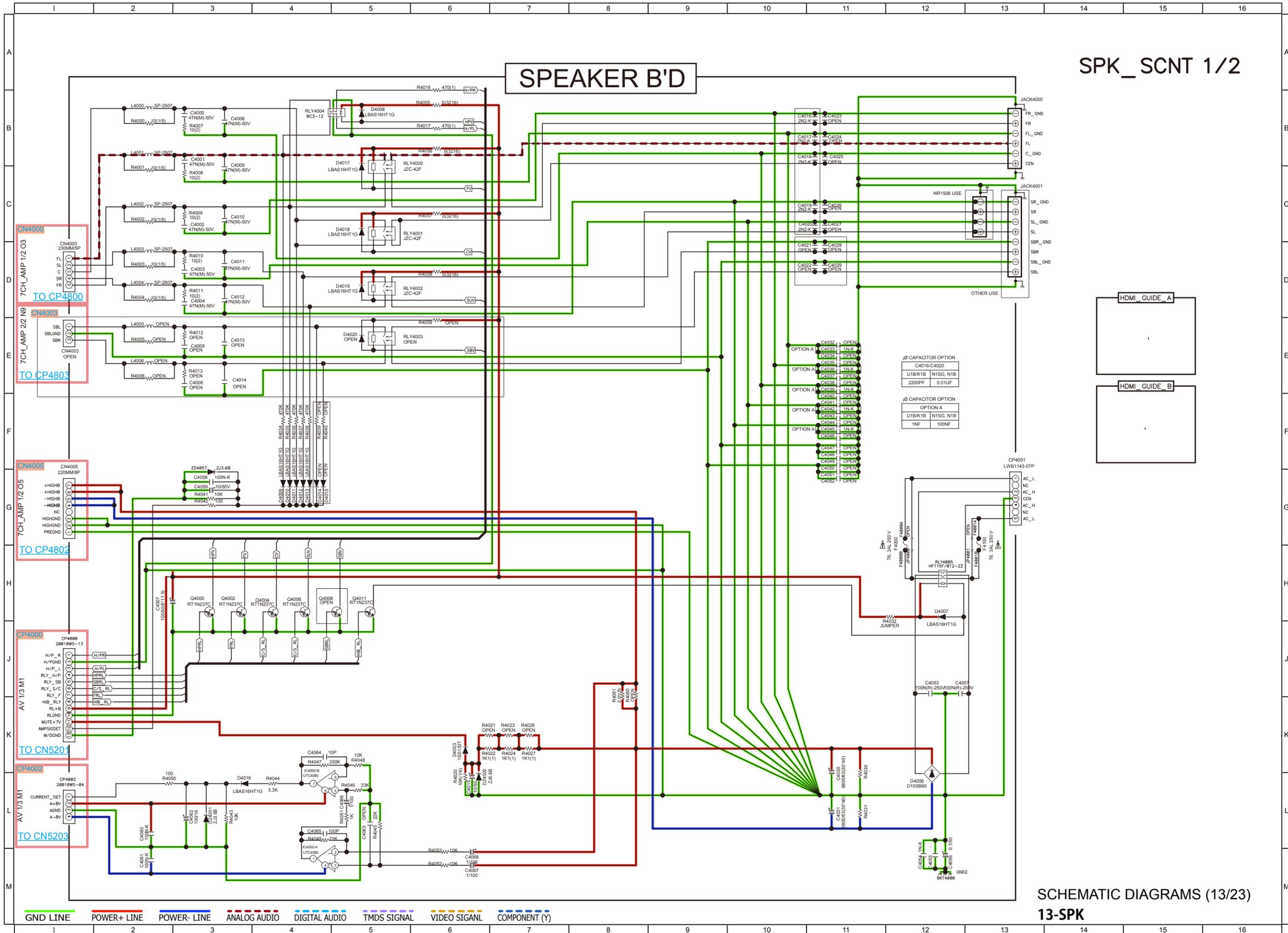
NET3.3V
NET2.5V
NET1.8V
NET1.2V
DGND

TO D0

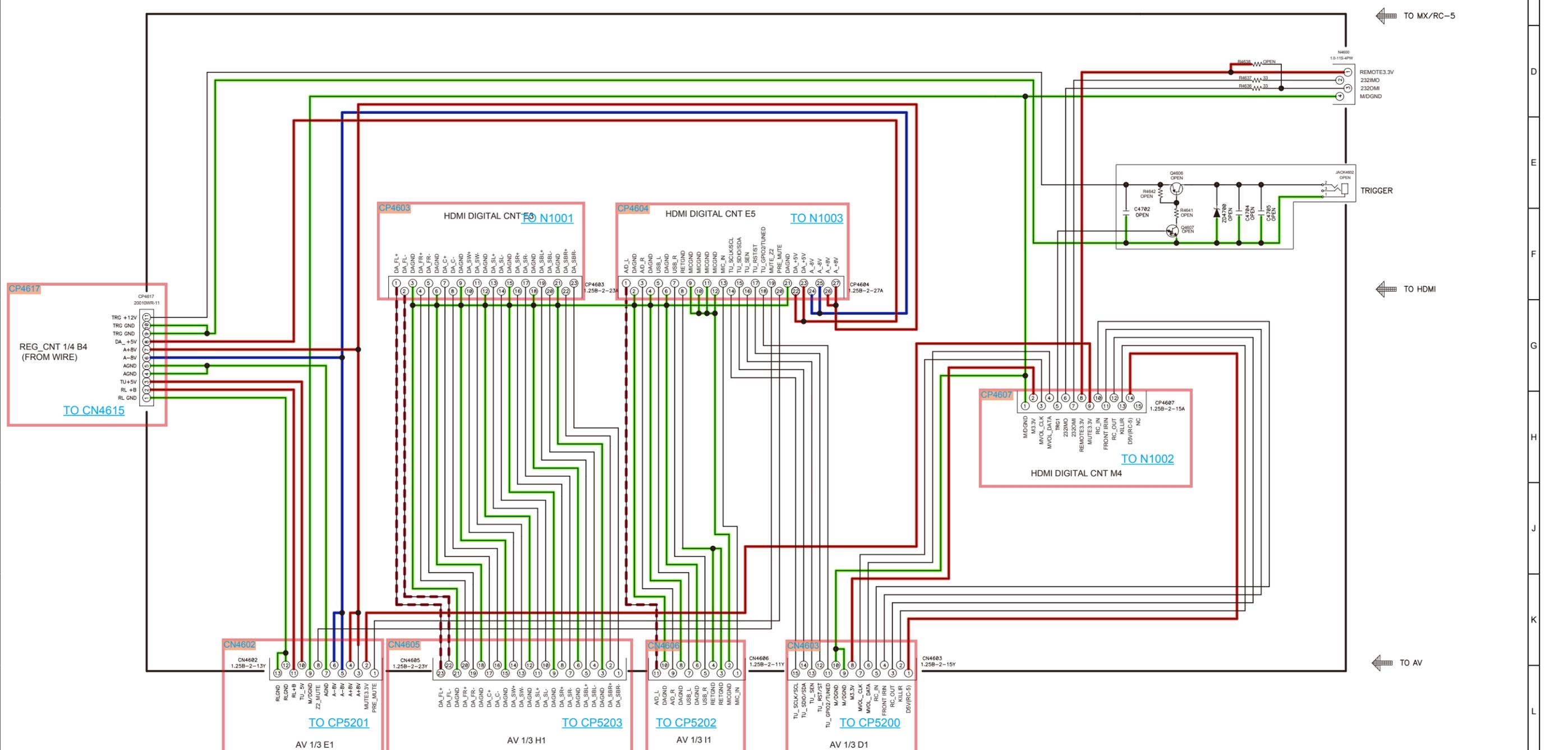
— GND LINE
 — POWER+ LINE
 — POWER- LINE
 — ANALOG AUDIO
 — DIGITAL AUDIO
 — TMSD SIGNAL
 — VIDEO SIGNAL
 — COMPONENT (Y)

SCHMATIC DIAGRAMS (12/23)
12-D.SUPPLY

SPEAKER B'D

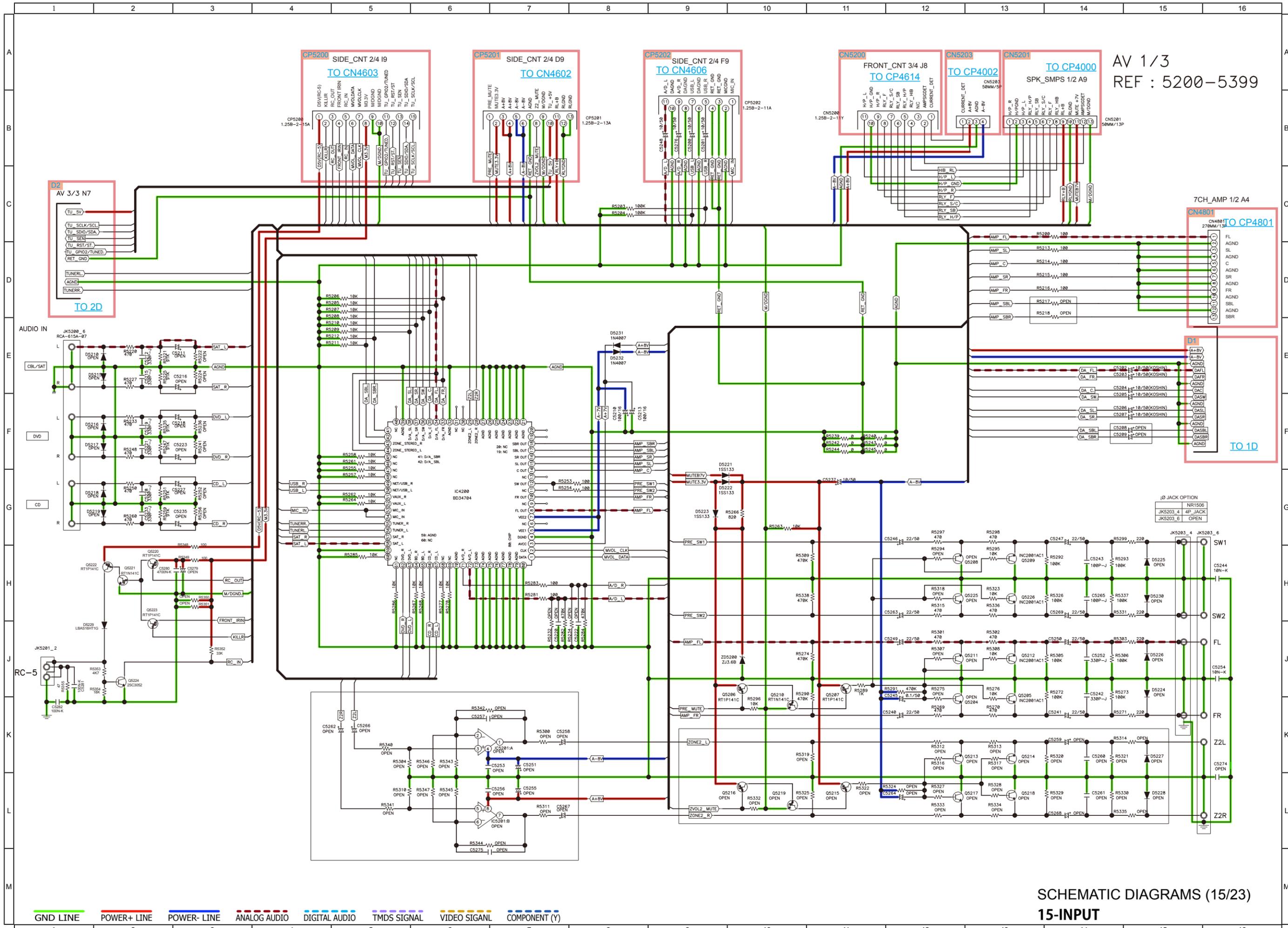


SIDE CONNECTOR



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

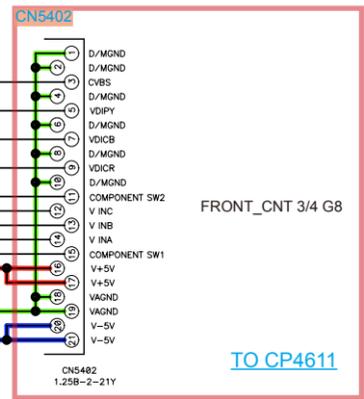
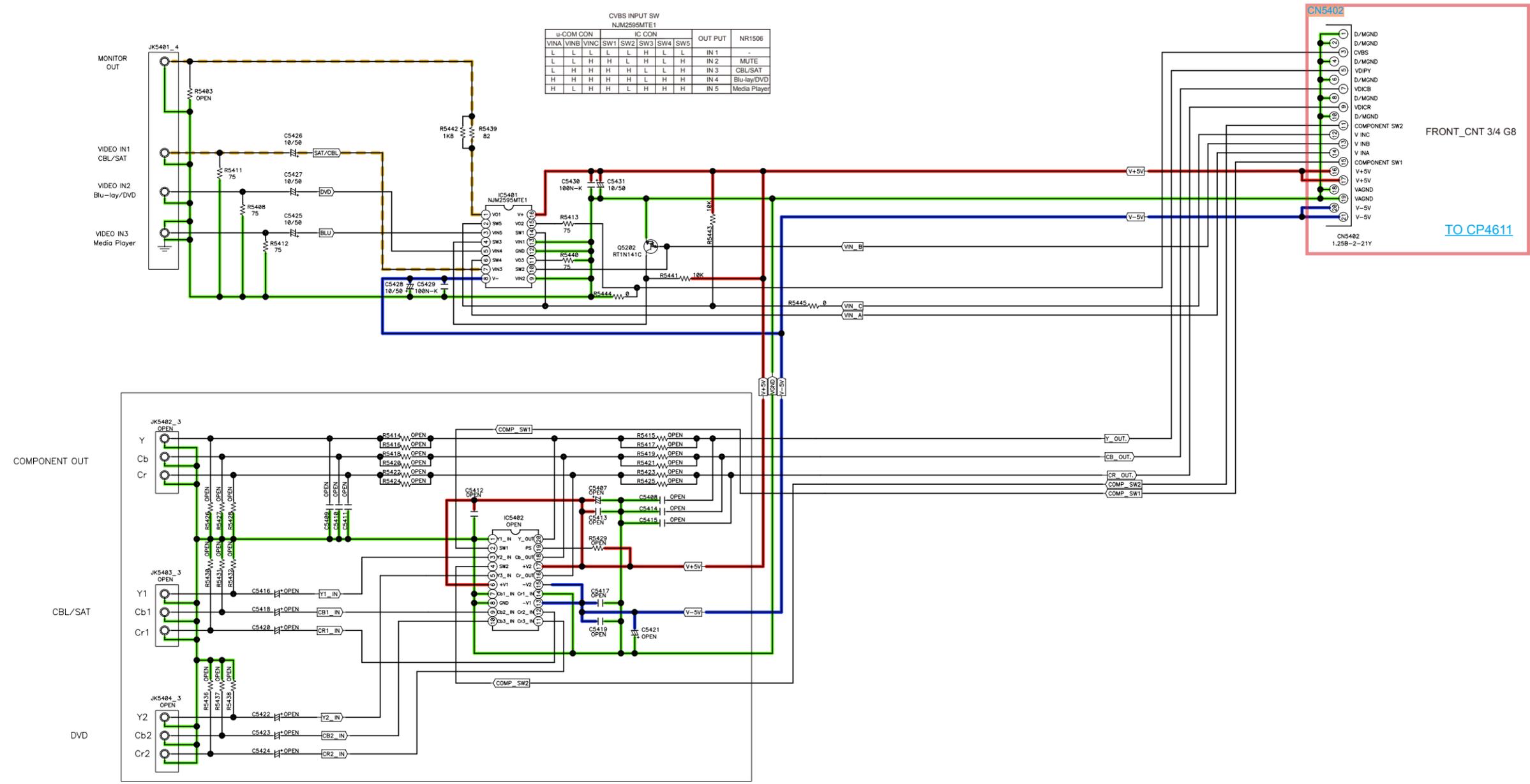
AV 1/3
REF : 5200-5399



SCHEMATIC DIAGRAMS (15/23)
15-INPUT

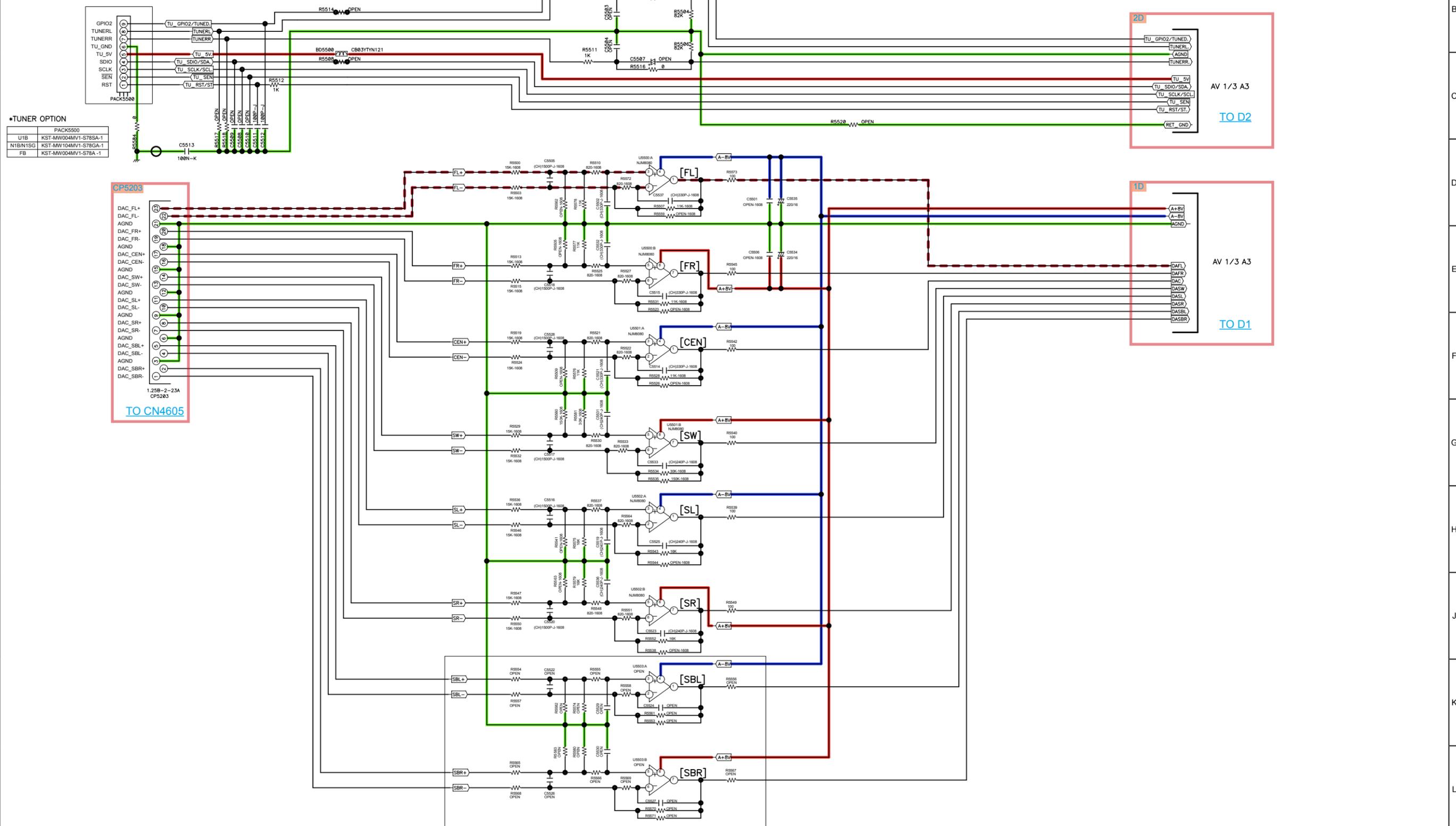
CVBS INPUT SW
NJM2595MTE1

u-COM CON			IC CON					OUT PUT	
VINA	VINB	VINC	SW1	SW2	SW3	SW4	SW5	IN 1	NR1506
L	L	L	L	L	H	L	L	IN 1	-
L	L	H	H	L	H	L	H	IN 2	MUTE
L	H	H	H	H	L	L	H	IN 3	CBL/SAT
H	H	H	H	H	L	H	H	IN 4	Blu-ray/DVD
H	L	H	H	L	H	H	H	IN 5	Media Player



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

TUNER PACK



*TUNER OPTION

	PACK5500
U1B	KST-MW004MV1-S78SA-1
N1B/N1SG	KST-MW104MV1-S78GA-1
FB	KST-MW004MV1-S78A-1

CP5203

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-

1.258-2-23A
CP5203

TO CN4605

2D

TU_GPIO2/TUNED+
TUNERL-
TUNERR-
AGND
TU_SV+
TU_SDO/SDA-
TU_SCLK/SCL-
TU_SEN-
RET_GND

AV 1/3 A3

TO D2

1D

A+B+
A-B+
AGND
DAFL-
DAFR-
DAC-
DASW-
DASL-
DASR-
DASBL-
DASBR-

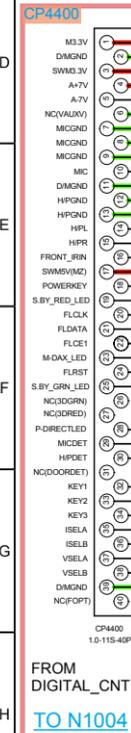
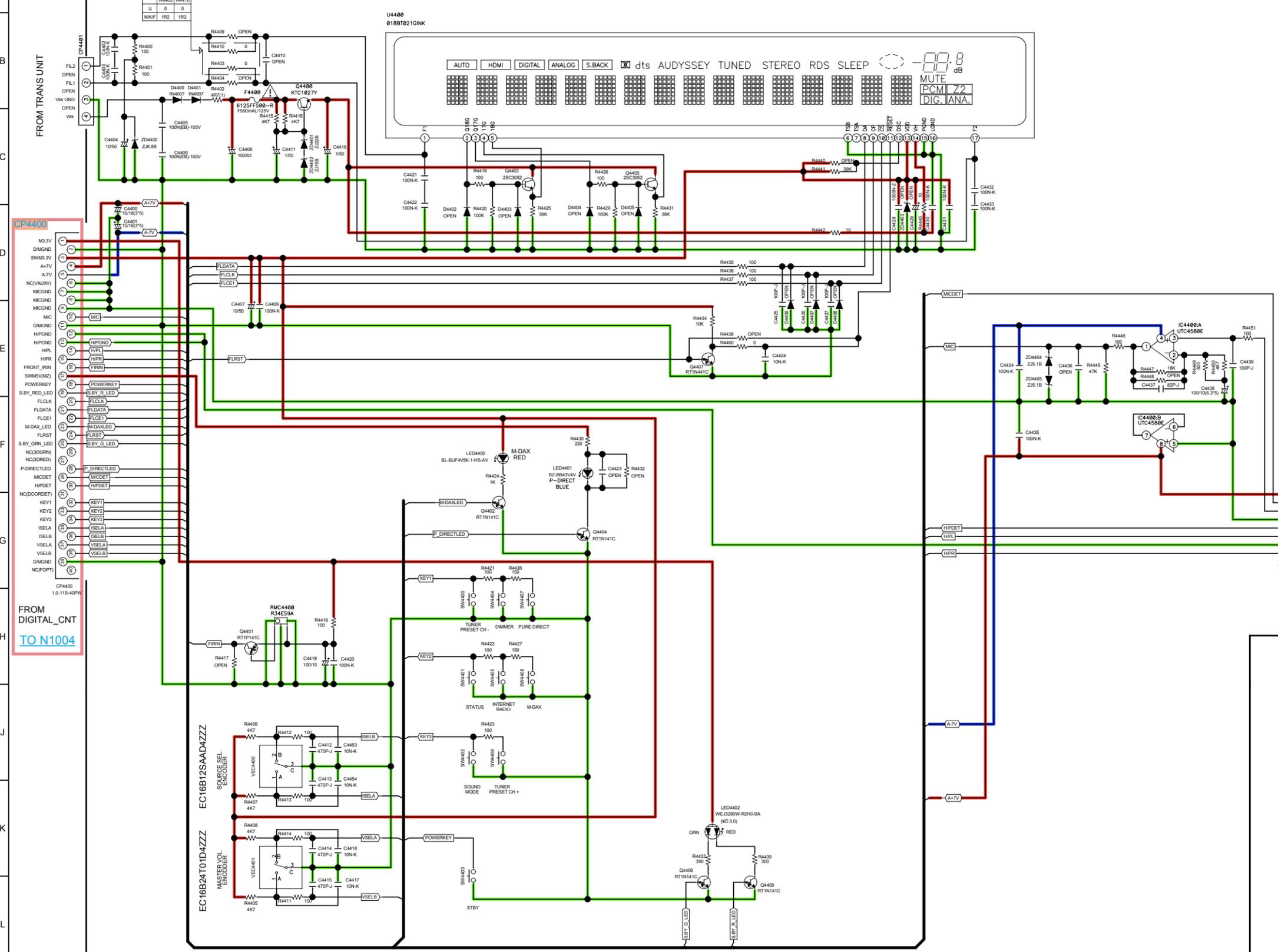
AV 1/3 A3

TO D1

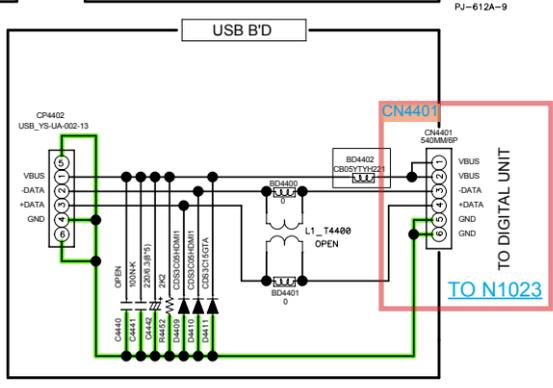
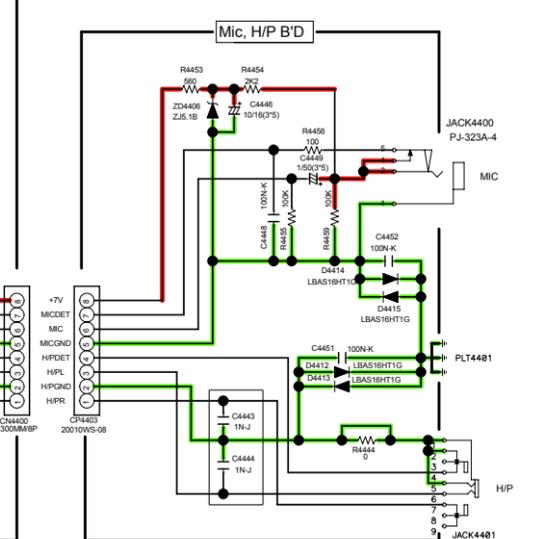
NR1506 FRONT B'D

FRONT 1/1
REF: 4400-4599

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



FROM DIGITAL_CNT
TO N1004



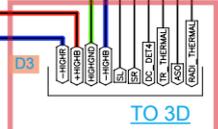
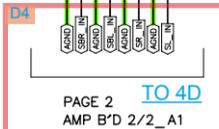
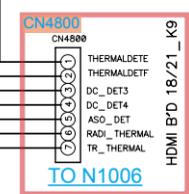
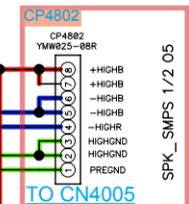
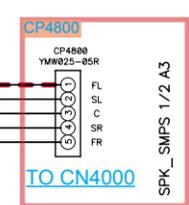
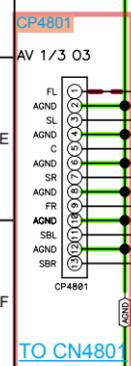
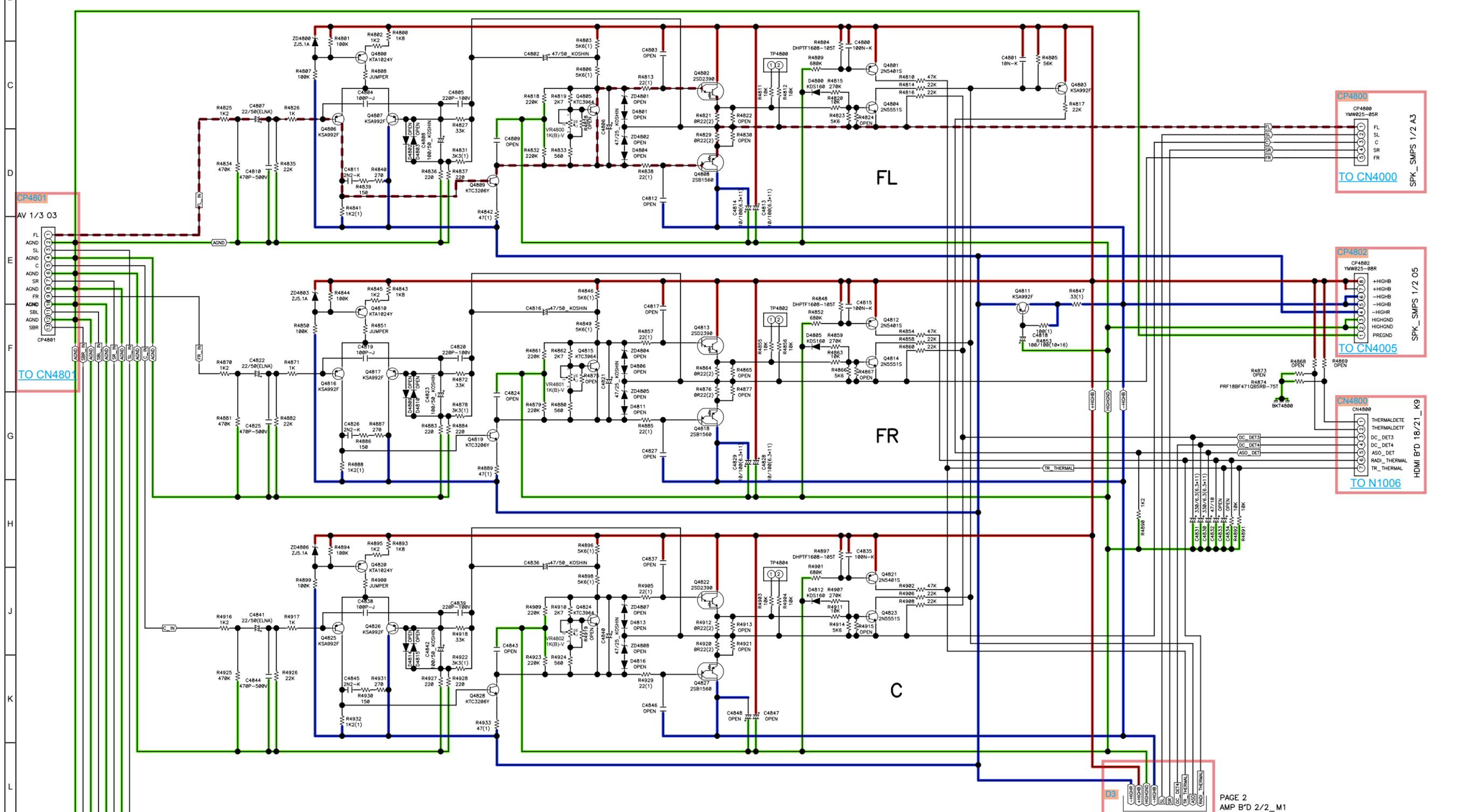
CN4401
TO N1023

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

SCHEMATIC DIAGRAMS (18/23)
18-FRONT

NR1506 AMP B'D 1/2

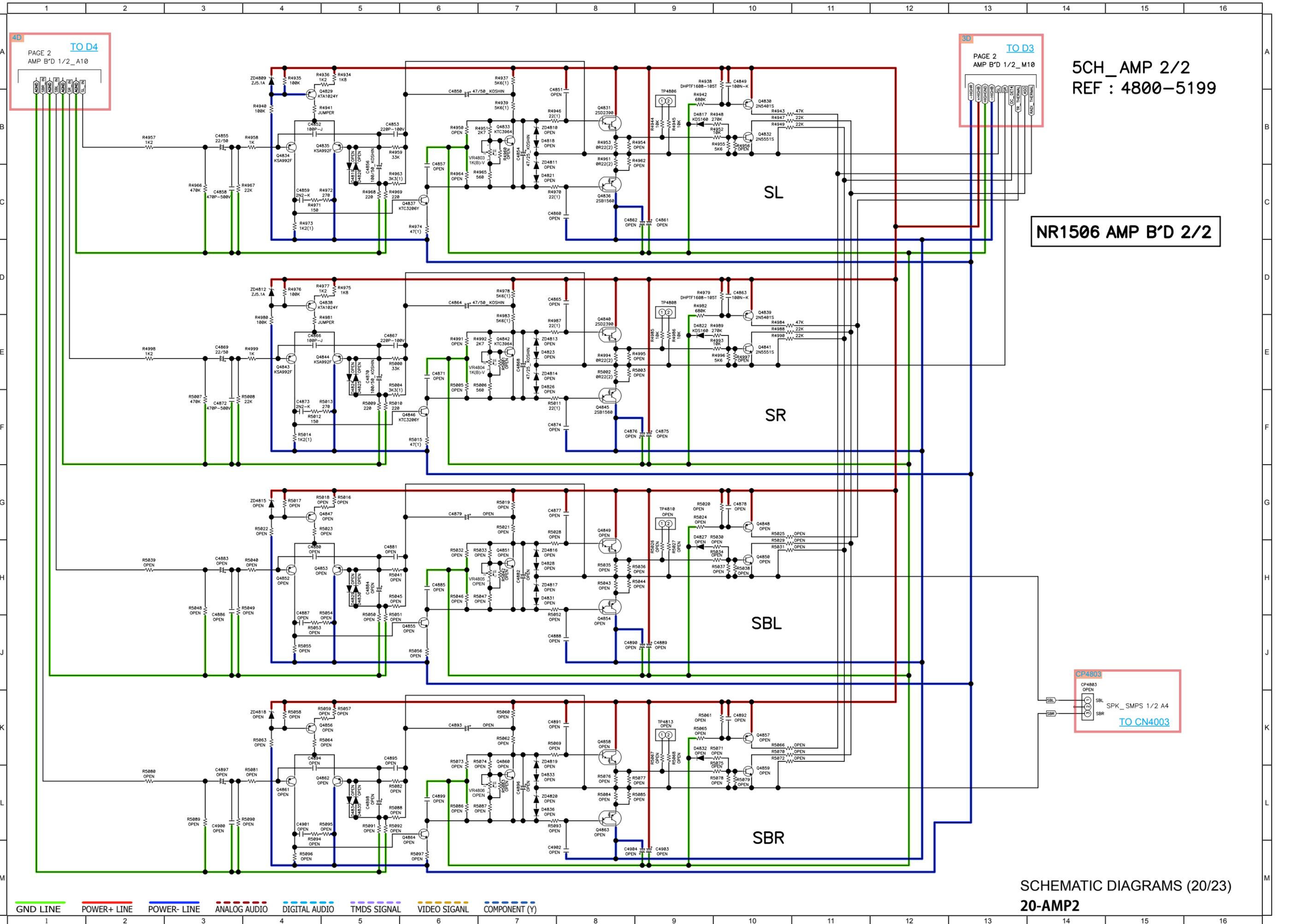
5CH_AMP 1/2
REF : 4800-5199



PAGE 2
AMP B'D 2/2_M1

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

SCHEMATIC DIAGRAMS (19/23)
19-AMP1



5CH_AMP 2/2
REF : 4800-5199

NR1506 AMP B'D 2/2

CP4803
CP4803 OPEN
SBL
SBR
SPK_SMPS 1/2 A4
TO CN4003

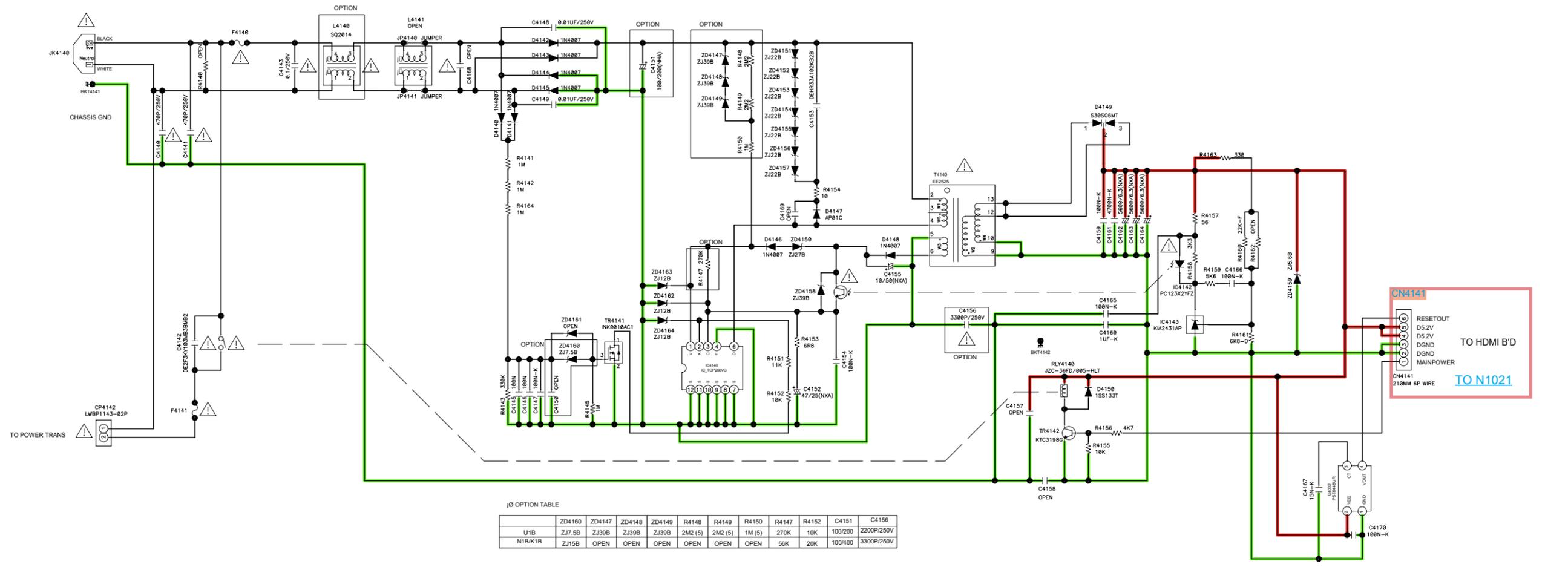
GND LINE POWER+ LINE POWER- LINE ANALOG AUDIO DIGITAL AUDIO TMDS SIGNAL VIDEO SIGNAL COMPONENT (Y)

SCHEMATIC DIAGRAMS (20/23)
20-AMP2

SMPS_REG_FCNT 1/3

NR1506 SMPS B'D

Ø FUSE OPTION				Ø LINE_FILTER OPTION					
U1B	N1SG, N1B, K1B			R_NO	U1B	N1SG, N1B, K1B			
F4140	F4141	F4140	F4141	L4140	27mH	50mH			
T2AL	T6.3AL	T1.6AL	T3.15AL						



Ø OPTION TABLE

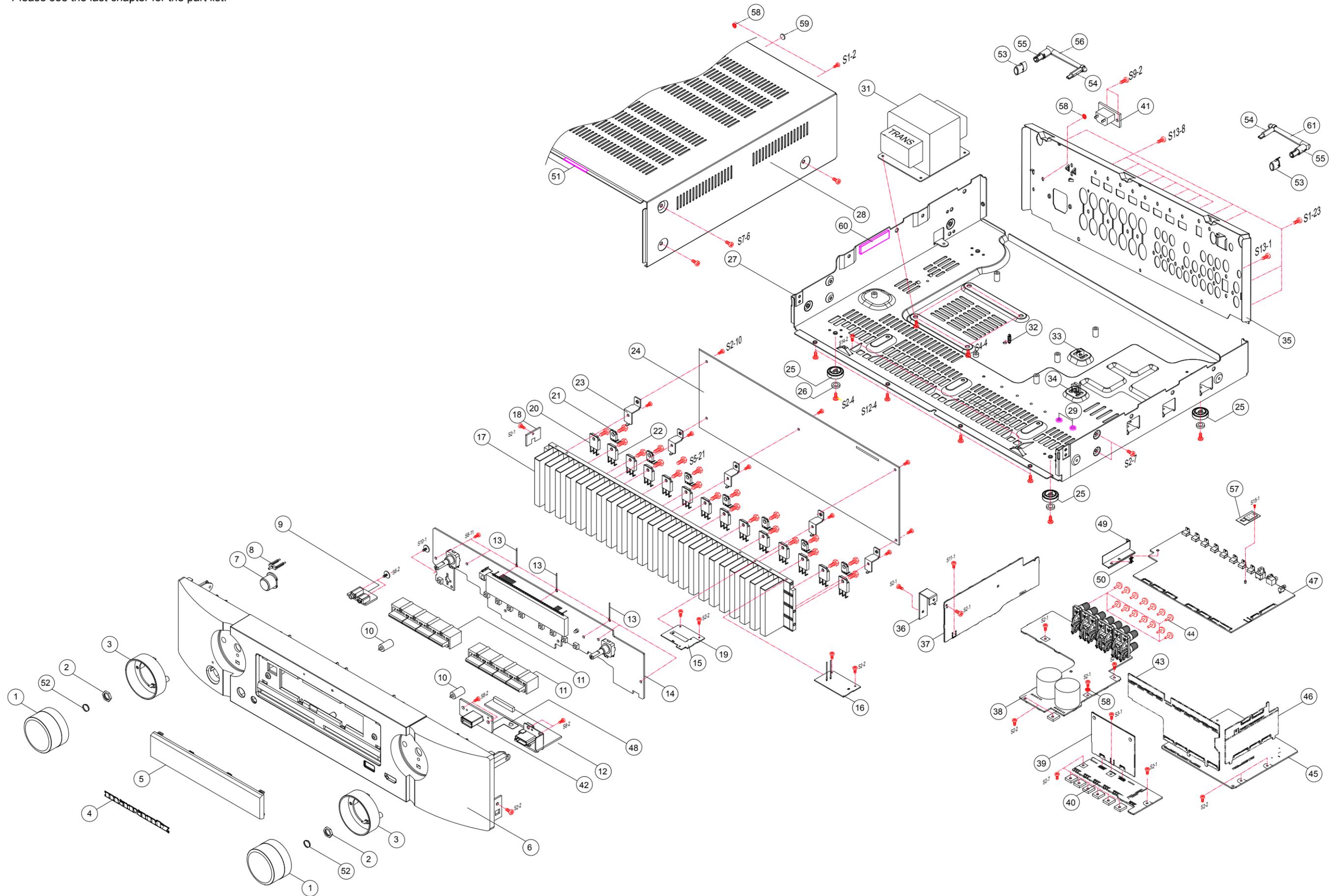
	ZD4160	ZD4147	ZD4148	ZD4149	R4148	R4149	R4150	R4147	R4152	C4151	C4156
U1B	ZJ7.5B	ZJ39B	ZJ39B	ZJ39B	2M2 (5)	2M2 (5)	1M (5)	270K	10K	100/200	2200P/250V
N1B/K1B	ZJ15B	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	56K	20K	100/400	3300P/250V



⚠ 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.

EXPLODED VIEW

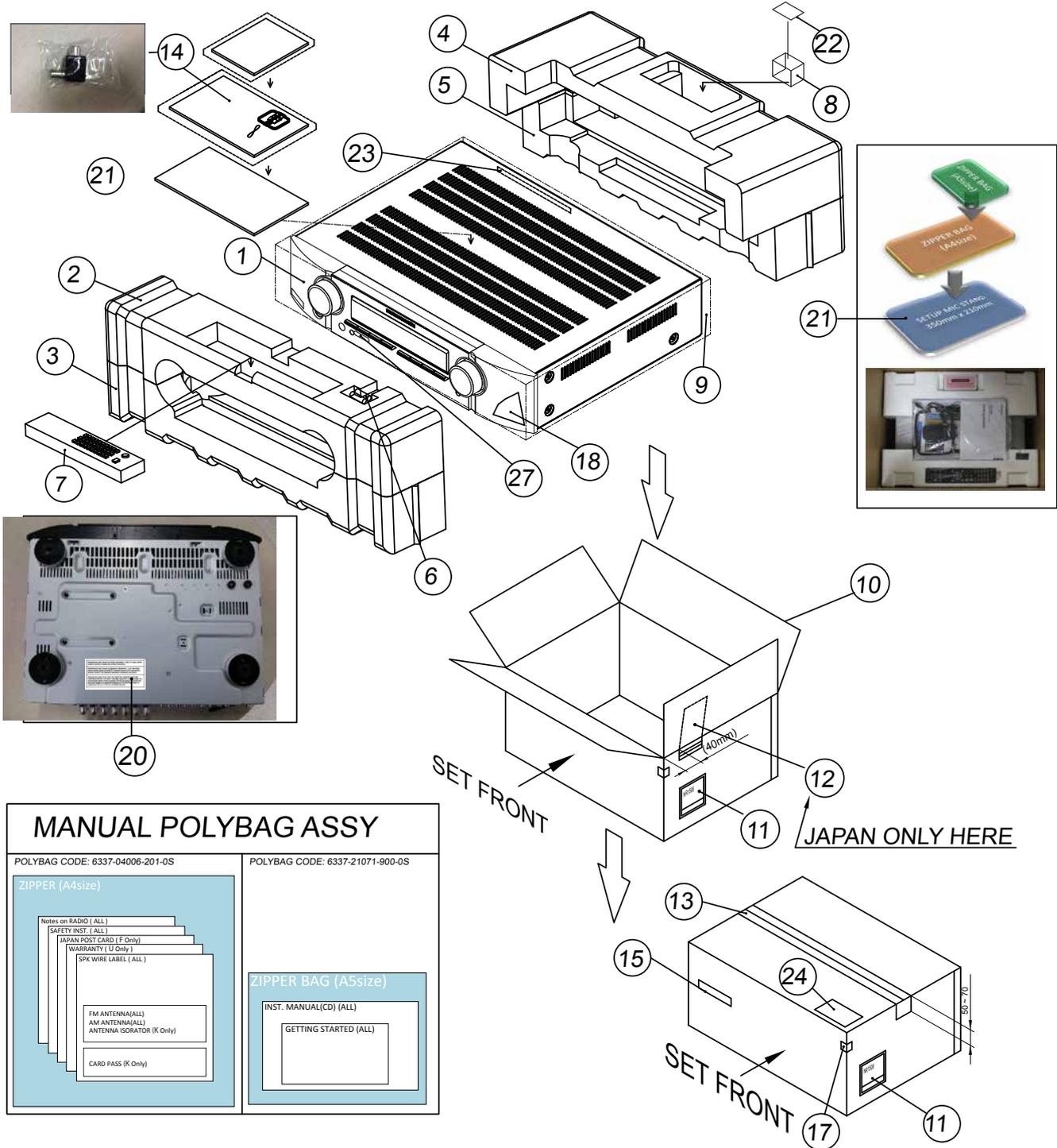
Please see the last chapter for the part list.



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

PACKING VIEW

Please see the last chapter for the part list.



MANUAL POLYBAG ASSY	
POLYBAG CODE: 6337-04006-201-0S	POLYBAG CODE: 6337-21071-900-0S
ZIPPER (A4size) Notes on RADIO (ALL) SAFETY INST. (ALL) JAPAN POST CARD (F Only) WARRANTY (U Only) SPK WIRE LABEL (ALL) FM ANTENNA(ALL) AM ANTENNA(ALL) ANTENNA ISORATOR (K Only) CARD PASS (K Only)	ZIPPER BAG (A5size) INST. MANUAL(CD) (ALL) GETTING STARTED (ALL)

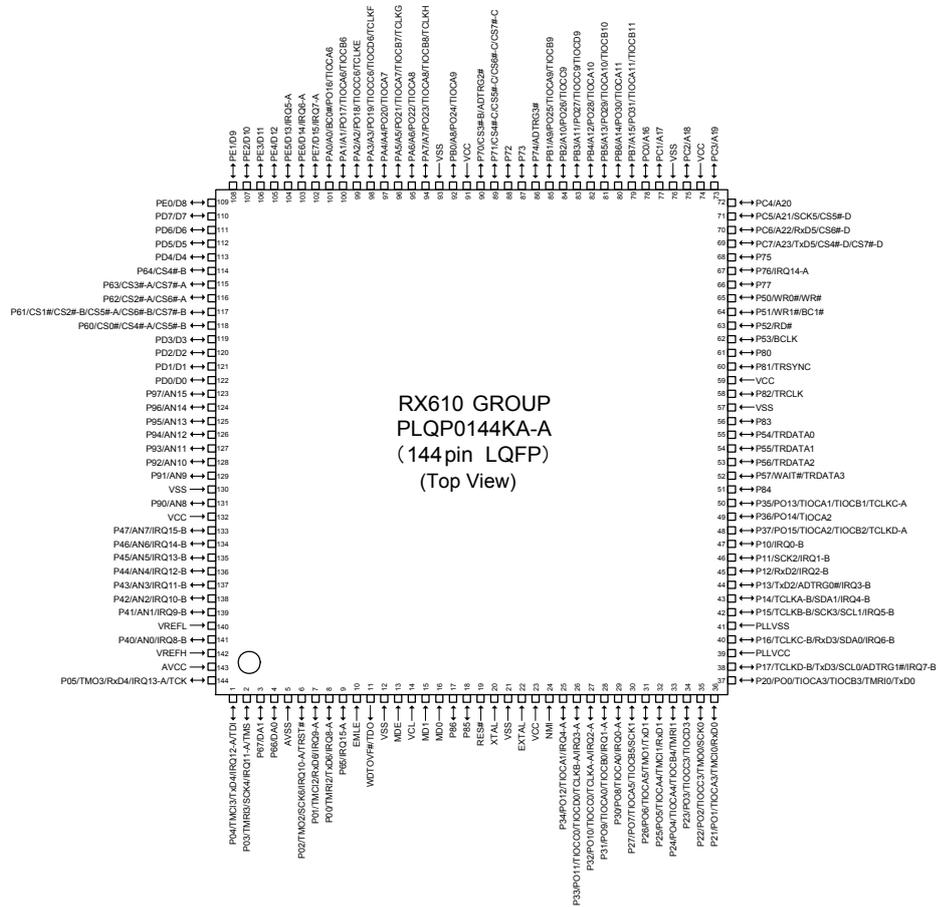
* POLY BAG PACKING STYLE	* BOX BOTTOM TAPE (O)	* BOX BOTTOM CLIP (X)
TAPE (CLEAR) CORD AC OLNLY UK PLUG(at store)		

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 : U1013)



R5F56108VNFP Terminal Functions

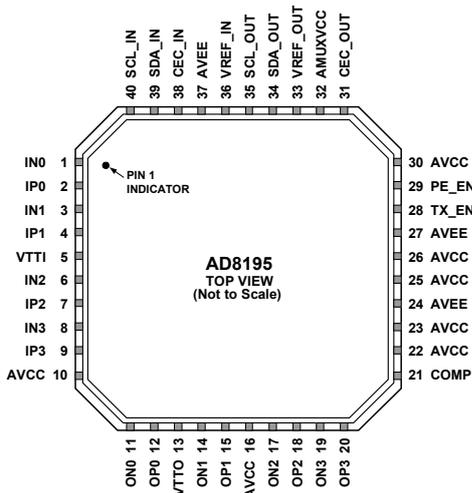
Pin	Pin Name	Symbol	I/O	Pu/Pd	STBY	STOP	CEC STBY	Function
1	P04/IRQ12-A/TMC13/TxD4/TDI	TDI/TXD MITSUBISHI/ NC(NORMRAL)	I/O/I	M3VPu	-/I	-/I	I	Unused
2	P03/IRQ11-A/TMR13/SCK4/TMS	TMS/NC(NORMRAL)	I/I	M3VPu	-/I	-/I	I	Unused
3	P67/DA1	HIN SELA	O		L	L	L	HDMI +5V Select pin(TC4051)
4	P66/DA0	HIN SELB	O		L	L	L	HDMI +5V Select pin(TC4051)
5	AVSS	AVSS	-		-	-	-	GND
6	P02/IRQ10-A/TMO2/SCK6/TRST#	TRST#/ NC(NORMRAL)	I/I	Pd	I/I	I/I	I	Unused
7	P01/IRQ9-A/TMC12/RxD6	RXD MI2320	I	M3VPu	I	I	I	Data received from the external pin(AMX)
8	P00/IRQ8-A/TMR12/TxD6	TXD MO232I	O		L	L	L	Data transfer to external pin(AMX)
9	P65/IRQ15-A	POWER KEY	I	M3VPu	I	I	I	POWER KEY (Waiting Mode cancel, interrupt port)
10	EMLE	EMLE	I	Pd	-	-	-	Unused
11	WDTOVF#/TDO	TDO/WDTOVF#	O/O		-	-	-	Unused
12	VSS	VSS	I		-	-	-	GND
13	MDE	MDE	I	Pd	-	-	-	Endian("L"=LittleEndian)
14	VCL	VCL	I		-	-	-	Connect to VSS via a C of 0.1µF
15	MD1	MD1	I	M3VPu	-	-	-	Unused
16	MD0	MD0	I	M3VPu	-	-	-	Unused
17	P86	CEC POWER2	O		L	L	H	CEC STANDBY SUPPLY control pin(CEC STANDBY)
18	P85	Tx EN	O		L	L	L	Front HDMI INPUT (AD8195) control pin
19	RES#	RESET	I		-	-	-	Reset input
20	XTAL	XTAL	I		-	-	-	Oscillator connection(12MHz)
21	VSS	VSS	-		-	-	-	GND

Pin	Pin Name	Symbol	I/O	Pu/Pd	STBY	STOP	CEC STBY	Function
22	EXTAL	EXTAL	-		-	-	-	Oscillator connection(12MHz)
23	VCC	VCC	-		-	-	-	POWER pin
24	NMI	NMI	I	M3VPu	-	-	-	PullUp
25	P34/IRQ4-A/PO12/TIOCA1	BDOWN	I		I	I	I	Power failure detection pin
26	P33/IRQ3-A/PO11/TIOCC0/TIOCD0/TCLKB-A	DAC.PLD ERR	I		L	L	L	DAC.PLD ERROR detection pin(APLD and DAC)
27	P32/IRQ2-A/PO10/TIOCC0/TCLKA-A	FLASHER IN(NA Only)/NC(Except NA)	I/O		I/L	I/L	I/L	FLASHER (RC-5) input pin (U Version Only)
28	P31/IRQ1-A/PO9/TIOCA0/TIOCB0	ES DET	I		I	I	I	NC
29	P30/IRQ0-A/PO8/TIOCA0	RC IN	I		I	I	I	Remote control signal input pin
30	P27/PO7/TIOCA5/TIOCB5/SCK1	Hi-B RL	O		L	L	L	HIGH B RELAY control pin
31	P26/PO6/TIOCA5/TMO1/TxD1	PSCL	I/O	CEC3VPu	O/L	L	L	MN864788/788A Control
32	P25/PO5/TIOCA4/TMC11/RxD1	PSDA	I/O	CEC3VPu	O/L	L	L	MN864788/788A Control
33	P24/PO4/TIOCA4/TIOCB4/TMRI1	TU RST	O	SW3VPu	L	L	L	TUNER Control
34	P23/PO3/TIOCC3/TIOCD3	E RESET	O(ODR)	N3VPu	L	L	L	ETHERNET RESET control pin(CY920)
35	P22/PO2/TIOCC3/TMO0/SCK0	E SPI CLK	O	N3VPu	L	L	L	ETHERNET communication control pin(CY920)
36	P21/PO1/TIOCA3/TMC10/RxD0	E SPI MIEO	I	N3VPu	I	L	I	ETHERNET communication control pin(CY920)
37	P20/PO0/TIOCA3/TIOCB3/TMRI0/TxD0	E SPI MOEI	O	N3VPu	L	L	L	ETHERNET communication control pin(CY920)
38	P17/IRQ7-B/TCLKD-B/TxD3/SCL0/ADTRG1#	TU SCLK	O		L	L	L	TUNER Control
39	PLLVCC	PLLVCC	-		-	-	-	PLL POWER pin
40	P16/IRQ6-B/TCLKC-B/RxD3/SDA0	TU SDIO	L_O		L	L	L	TUNER Control
41	PLLSS	PLLSS	-		-	-	-	PLL GND pin
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	L_O	M3VPu	I	I	I	EEPROM Control pin
44	P13/IRQ3-B/TxD2/ADTRG0#	ADV7623 SPI MO	O		L	L	L	OSD Control pin (ADV7623)
45	P12/IRQ2-B/RxD2	ADV7623 SPI MI	I		L	L	L	OSD Control pin (ADV7623)
46	P11/IRQ1-B/SCK2	ADV7623 SPI CLK	O		L	L	L	OSD Control pin (ADV7623)
47	P10/IRQ0-B	ADV7623 SPI CS	O		L	L	L	OSD Control pin (ADV7623)
48	P37/PO15/TIOCA2/TIOCB2/TCLKD-A	HSCL (400k)	O	CEC3VPu	L	L	L	ADV7623 Control
49	P36/PO14/TIOCA2	HSDA (400k)	L_O	CEC3VPu	L	L	L	ADV7623 Control
50	P35/PO13/TIOCA1/TIOCB1/TCLKC-A	MN864778 RST	O	SW3VPu	L	L	L	MN864788 Reset terminal
51	P84	CEC_OUT	O		L	L	-	CEC-D Signal output terminal
52	P57/WAIT#/TRDATA3	MN864778A RST	O	SW3VPu	L	L	L	MN864788 Reset terminal
53	P56/TRDATA2	E POWER1	O		L	L	L	ETHER POWER Control pin (CY920)(3.3V Control)
54	P55/TRDATA1	ADV7623 RST	O	SW3VPu	L	L	L	HDMI Tx/Rx/OSD Reset (ADV7623)
55	P54/TRDATA0	E POWER2	O		L	L	L	ETHER POWER Control pin (CY920)(2.5V Control)
56	P83	E POWER3	O		L	L	L	ETHER POWER Control pin (CY920)(1.8V Control)
57	VSS	VSS	-		-	-	-	GND
58	P82/TRCLK	FL CE	O		L	L	L	FL Control pin
59	VCC	VCC	-		-	-	-	POWER pin
60	P81/TRSYNC	FL RST	O		L	L	L	FL Control pin
61	P80	E POWER4	O		L	L	L	ETHER POWER Control pin (CY920)(1.2V Control)
62	BCLK/P53 (for Input)	THERMAL F	I	Pu	I	I	I	PROTECTION detection pin(Heat Sink)
63	P52/RD#	MN864778A HINT	I		I	I	I	MN864788A HDMI INT input pin
64	P51/WR1#/BC1#	NC	O		L	L	L	NC
65	P50/WR0#/WR#	HIN SELC	I	Pu	I	L	I	HDMI +5V Select pin(TC4051)
66	P77	H5V DET	I		I	I	I	HDMI INPUT 5V detection pin
67	P76/IRQ14-A	TU GPO2_INT	I		L	L	L	TUNER Control
68	P75	KILL IR	O		L	L	L	Front IR Disable control pin
69	PC7/A23/CS4#-D/CS7#-D/TxD5	DSP MOSI	O	DA3VPu	L	L	L	DSP control pin
70	PC6/A22/CS6#-D/RxD5	DSP MISO	I	DA3VPu	L	L	L	DSP control pin
71	PC5/A21/CS5#-D/SCK5	DSPI CLK	O	DA3VPu	L	L	L	DSP control pin
72	PC4/A20	DSP RST	O		L	L	L	DSP reset output pin (Reset : L)
73	PC3/A19	DSP FLAG0	I	Pd	L	L	L	DSP control pin

Pin	Pin Name	Symbol	I/O	Pu/Pd	STBY	STOP	CEC STBY	Function
74	VCC	VCC	-		-	-	-	POWER pin
75	PC2/A18	DSP ICS	O	DA3VPu	L	L	L	DSP ChipSelect
76	VSS	VSS	-		-	-	-	GND
77	PC1/A17	GREEN LED	O		L/H	L	L	POWER LED control pin (ON:H)
78	PC0/A16	RED LED	O		H	L	H	POWER/STANDBY LED control pin (ON:H)
79	PB7/A15/PO31/TIOCA11/ TIOCB11	H/P RL	O		L	L	L	HEADPHONE RELAY control pin
80	PB6/A14/PO30/TIOCA11	FRONT RL	O		L	L	L	SPEAKER RELAY control pin
81	PB5/A13/PO29/TIOCA10/ TIOCB10	NC	O		L	L	L	NC
82	PB4/A12/PO28/TIOCA10	TU_SEN	O		L	L	L	TUNER Control
83	PB3/A11/PO27/TIOCC9/ TIOCD9	C/S RL	O		L	L	L	SP RELAY control pin
84	PB2/A10/PO26/TIOCC9	THERMAL E	O		L	L	L	HEAT PROTECT detection pin(Heat Sink)
85	PB1/A9/PO25/TIOCA9/ TIOCB9	D5V POWER	O		L	L	H	DIGITAL POWER SUPPLY (D3.3V) control pin (ON:H)
86	P74/ADTRG3#	DIR CE	O		L	L	L	DIR control pin(PCM9211)
87	P73	DIR DIN	O		L	L	L	DIR control pin(PCM9211)
88	P72	DIR DOUT	I	DA3VPu	I	I	I	DIR control pin(PCM9211)
89	P71/CS4#-C/CS5#-C/ CS6#-C/CS7#-C	DIR CLK	O		L	L	L	DIR control pin(PCM9211)
90	P70/CS3#-B/ADTRG2#	DIR RST	O		L	L	L	DIR control pin(PCM9211)
91	VCC	VCC	-		-	-	-	POWER pin
92	PB0/A8/PO24/TIOCA9	7623 ROM HOLD	O		L	L	L	ADV7623 SPI FLASH ROM HOLD Control pin
93	VSS	VSS	-		-	-	-	GND
94	PA7/A7/PO23/TIOCA8/ TIOCB8/TCLKH	VEXP OE	O		L	L	L	VIDEO Control EXPANDER Control pin
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	DIRECT LED	O		L	L	L	DIRECT LED control pin
98	PA3/A3/PO19/TIOCC6/ TIOCD6/TCLKF	M-DAX LED	O		L	L	L	M-DAX LED control pin
99	PA2/A2/PO18/TIOCC6/ TCLKE	RC OUT	O		H	L	H	RC-5 CODE output pin
100	PA1/A1/PO17/TIOCA6/ TIOCB6	CLK MUTE	O		L	L	L	PLD Control pin (MUTE CLK SW) MUTE Active="H"
101	PA0/A0/BC0#/PO16/ TIOCA6	PRE MUTE	O		L	L	L	PRE OUT MUTE Control
102	PE7/IRQ7-A/D15	MN864778A HAIN	I		I	I	I	MN864778A HDMI Audio INTinput
103	PE6/IRQ6-A/D14	MN864778 HINT	I		I	I	I	MN864778 HDMI INTinput
104	PE5/IRQ5-A/D13	MN864778 HAIN	I		I	I	I	MN864778 HDMI Audio INTinput
105	PE4/D12	I SEL A	I		I	I	I	Input Selector rotation detection pin(Rotary encoder)
106	PE3/D11	I SEL B	I		I	I	I	Input Selector rotation detection pin(Rotary encoder)
107	PE2/D10	VOL CLK	O		L	L	L	FUNCTION / VOLUME control pin(BD34703KS2)
108	PE1/D9	VOL DATA	O		L	L	L	FUNCTION / VOLUME control pin(BD34703KS2)
109	PE0/D8	PLD WRITE	O		L	L	L	PLD/JTAGLINE switching
110	PD7/D7	JTAG TDO	I		L	L	L	JTAG I/F (PLD rewrite)
111	PD6/D6	JTAG TMS/APLD CS	O/O		L	L	L	JTAG I/F (PLD rewrite)/Audio PLD Control I/F
112	PD5/D5	JTAG TDI/APLD DATA/DAC DATA	O/O		L	L	L	JTAG I/F (PLD rewrite)/Audio PLD Control I/F / DAC Control
113	PD4/D4	JTAG TCK/APLD CLK/DAC CLK	O/O		L	L	L	JTAG I/F (PLD rewrite)/Audio PLD Control I/F / DAC Control
114	P64/CS4#-B	VEXP STB	O		L	L	L	VIDEO Control EXPANDER Control pin
115	P63/CS3#-A/CS7#-A	THERMAL A	I	SW3VPu	I	L	I	PROTECTION detection pin(THERMAL A)
116	P62/CS2#-A/CS6#-A	E SPI CS	O	N3VPu	L	L	L	ETHERNET communication control pin(CY920)
117	P61/CS1#/CS2#-B/ CS5#-A/CS6#-B/CS7#-B	DAC MS	O		L	L	L	DAC Control (PCM1690)
118	P60/CS0#/CS4#-A/ CS5#-B	DAC RST	O		L	L	L	DAC Control (PCM1690)
119	PD3/D3	VEXP CLK	O		L	L	L	VIDEO Control EXPANDER Control pin
120	PD2/D2	VEXP DATA	O		L	L	L	VIDEO Control EXPANDER Control pin
121	PD1/D1	FL CLK	O		L	L	L	FL Control pin
122	PD0/D0	FL DATA	O		L	L	L	FL Control pin
123	P97/AN15	DA POWER	O		L	L	L	DIGITAL POWER Contro (DA3.3V,DA1.2V) ON/ OFF SW ("H":ON)
124	P96/AN14	CEC POWER	O		L	L	※	HDMI CEC POWER SUPPLY control pin (CEC5V,CEC3.3V,CEC1.8V)
125	P95/AN13	DV POWER1	O		L	L	※	Digital VIDEO POWER SUPPLY control pin (DV5V,DV3.3V)
126	P94/AN12	THERMAL B	I	SW3VPu	I	L	I	PROTECTION detection pin(THERMAL B)
127	P93/AN11	MAIN POWER	O		L	L	L	MAIN POWER control pin

Pin	Pin Name	Symbol	I/O	Pu/Pd	STBY	STOP	CEC STBY	Function
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	-		-	-	-	POWER pin
133	P47/IRQ15-B/AN7	DC DET/ASO	I		I	I	I	PROTECTION detection pin(DC DET)/(ASO)
134	P46/IRQ14-B/AN6	H/P DET / MIC DET	I		I	I	I	Headphone detection pin/MIC detection pin
135	P45/IRQ13-B/AN5	KEY3	I	SW3VPu	I	I	I	Button input 3
136	P44/IRQ12-B/AN4	KEY2	I	SW3VPu	I	I	I	Button input 2
137	P43/IRQ11-B/AN3	KEY1	I	SW3VPu	I	I	I	Button input 1
138	P42/IRQ10-B/AN2	E SPI REQ	I	Pd	I	L	I	ETHERNET communication control pin(CY920)
139	P41/IRQ9-B/AN1	CURRENT DET	I		I	L	I	AMP CURRENT detection pin
140	AVSS	AVSS	-		-	-	-	ANALOG GND
141	P40/IRQ8-B/AN0	CEC_IN	I	SW3VPu	I	I	I	CEC-D signal input pin
142	VREF	VREF	-		-	-	-	Reference voltage input
143	AVCC	AVCC	-		-	-	-	ANALOG POWER pin
144	P05/IRQ13-A/TMO3/RxD4/TCK	TCK/RXD MITSUBISHI/ NC(NORMRAL)	I/I/I	M3VPu	-/I	-/I	I	Unused

AD8195ACPZ (HDMI : U1022)



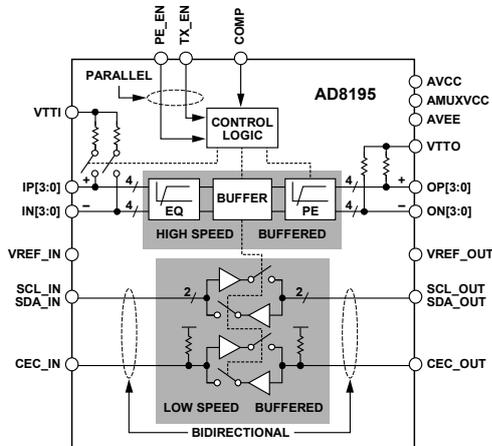
NOTES
 1. THE AD8195 LFCSP HAS AN EXPOSED PAD ON THE UNDERSIDE OF THE PACKAGE THAT AIDS IN HEAT DISSIPATION. THE PAD MUST BE ELECTRICALLY CONNECTED TO THE AVEE SUPPLY PLANE IN ORDER TO MEET THERMAL SPECIFICATIONS.

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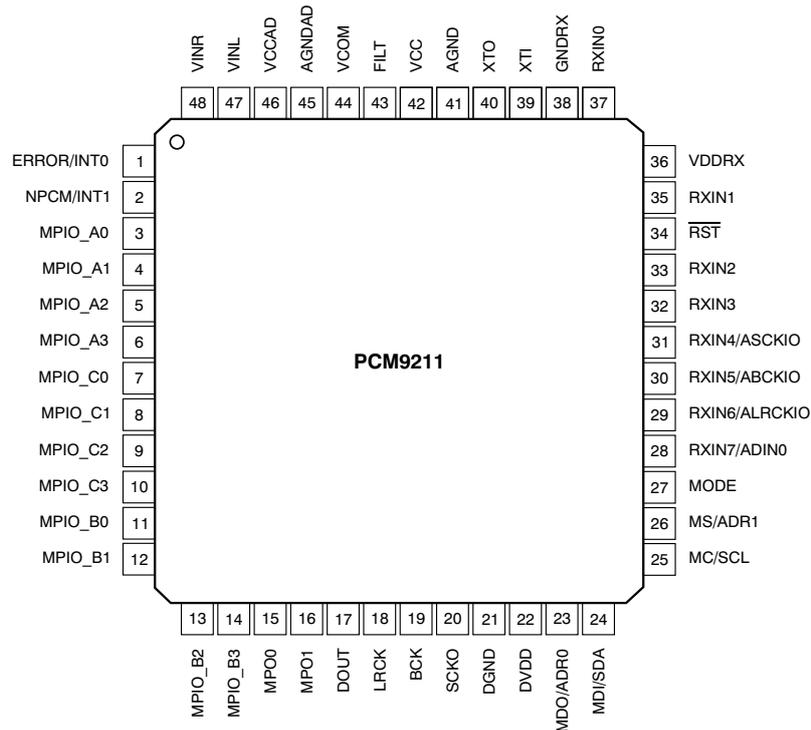
AD8195ACPZ Termini Function

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 : U1016)



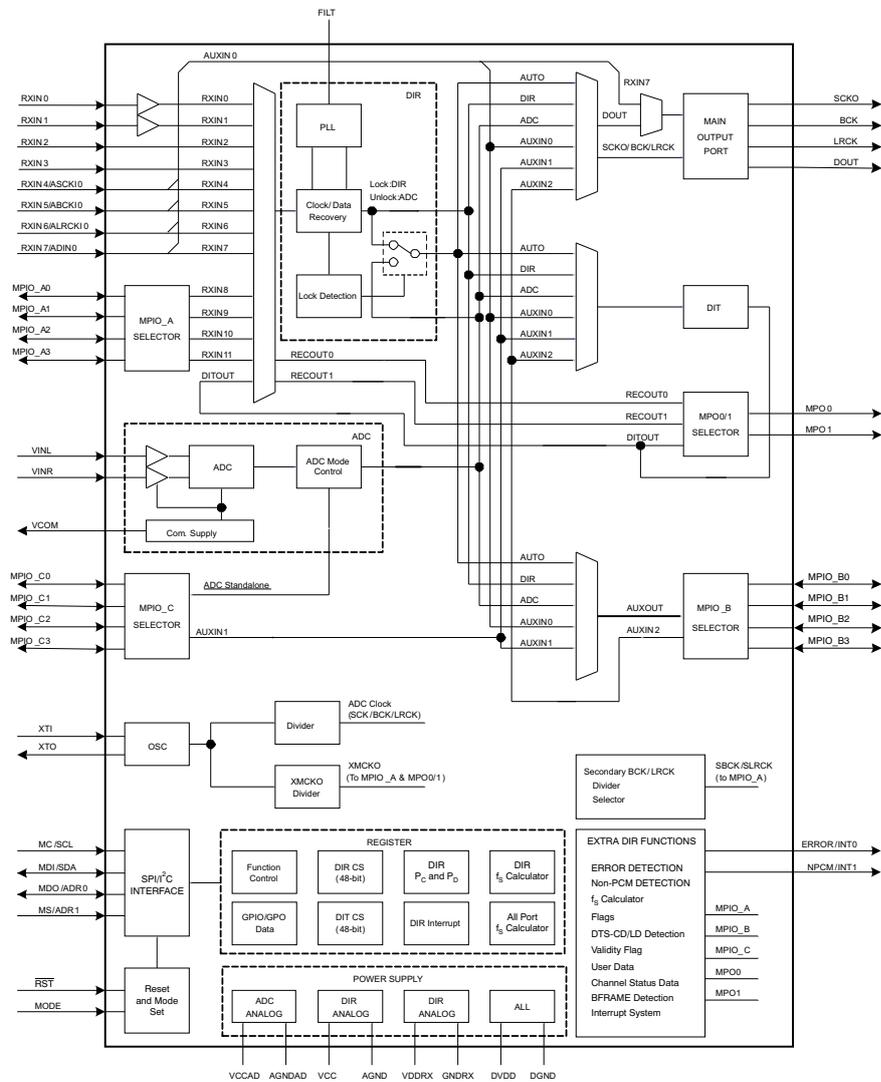
PIN Functions

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

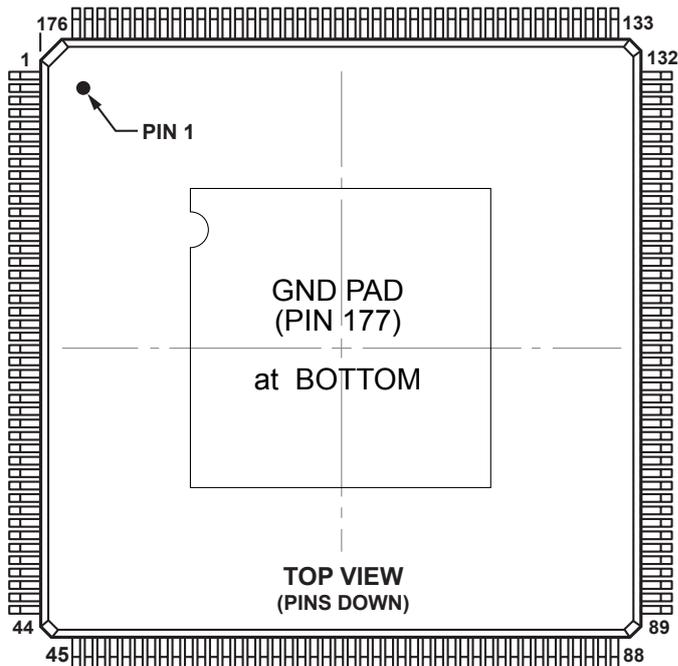
PIN				DESCRIPTION
NO.	NAME	I/O	5-V TOLERANT	
35	RXIN1	I	Yes	Biphase signal, input 1, built-in coaxial amplifier
36	VDDR _X	-	-	Power supply, 3.3 V (typ.), for RXIN0 and RXIN1.
37	RXIN0	I	Yes	Biphase signal, input 0, built-in coaxial amplifier
38	GNDR _X	-	-	Ground, for RXIN
39	XTI	I	No	Oscillation circuit 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



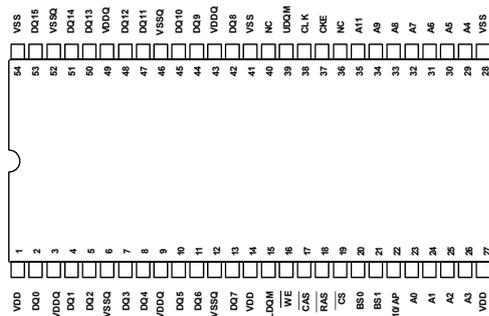
ADSP21487KSWZ-2B (HDMI : U1021)



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

* at BOTTOM

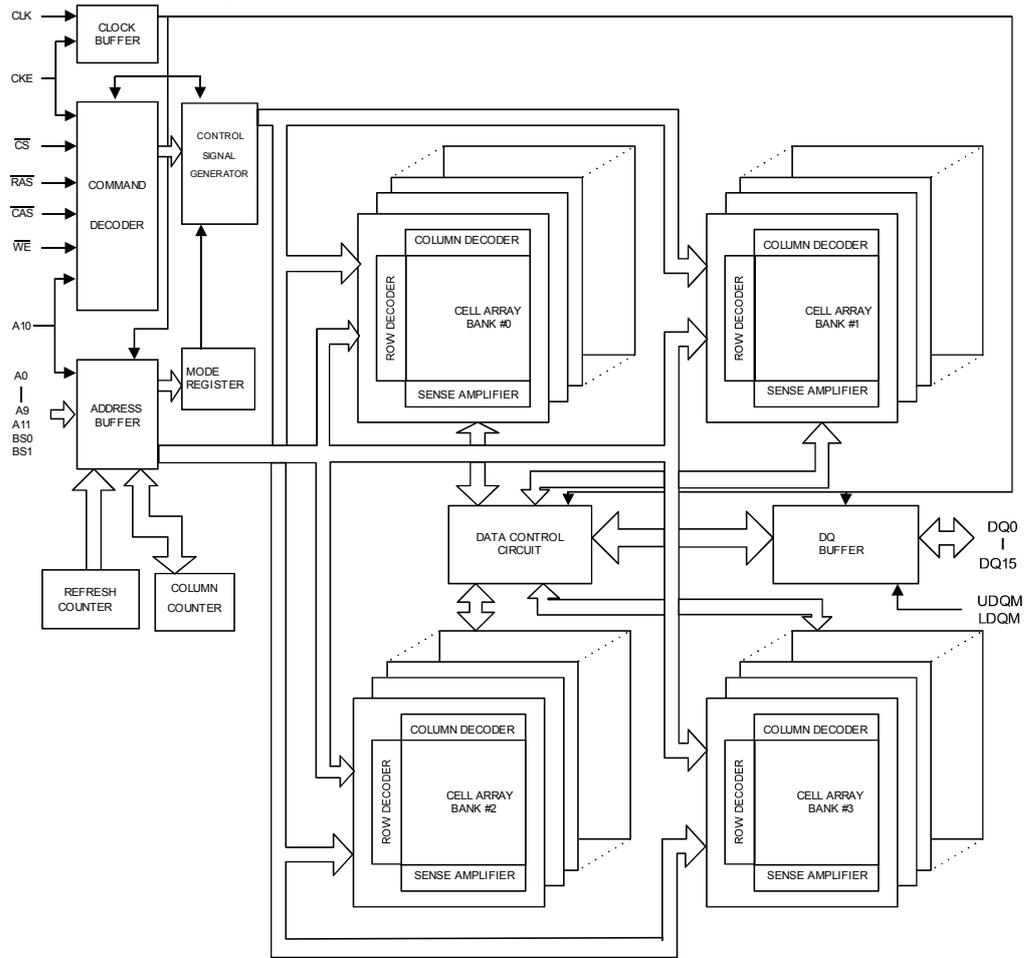
W9864G6KH-6 (HDMI : U1020)



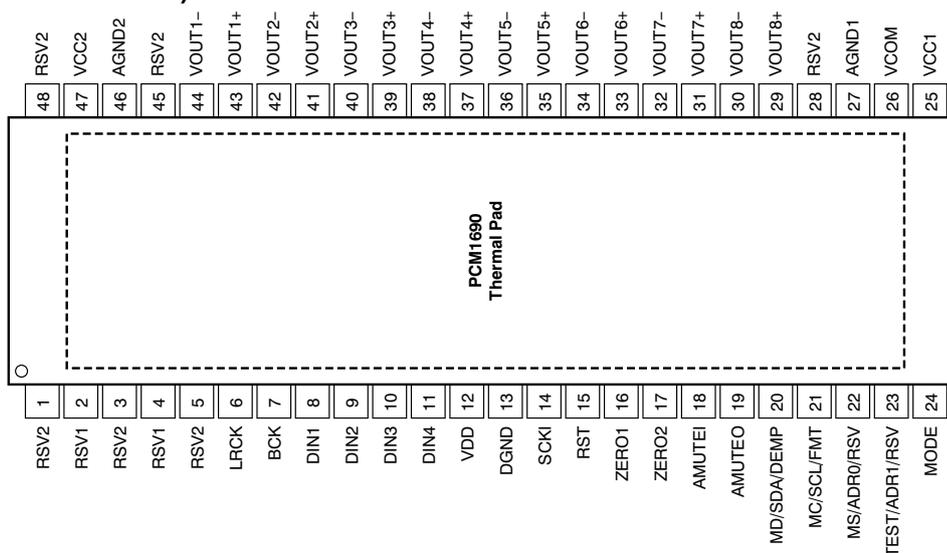
W9864G6KH-6 Pin description

PIN NUMBER	PIN NAME	FUNCTION	DESCRIPTION
23 ~ 26, 22, 29 ~ 35	A0–A11	Address	Multiplexed pins for row and column address. Row address: A0–A11. 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.
20, 21	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, 42, 44, 45, 47, 48, 50, 51, 53	DQ0–DQ15	Data Input/ Output	Multiplexed pins for data output and input.
19	\overline{CS}	Chip Select	Disable or enable the command decoder. When command decoder is disabled, new command is ignored and previous operation continues.
18	\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.
17	\overline{CAS}	Column Address Strobe	Referred to \overline{RAS}
16	\overline{WE}	Write Enable	Referred to \overline{RAS}
39, 15	UDQM LDQM	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.
38	CLK	Clock Inputs	System clock used to sample inputs on the rising edge of clock.
37	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, 14, 27	VDD	Power	Power for input buffers and logic circuit inside DRAM.
28, 41, 54	VSS	Ground	Ground for input buffers and logic circuit inside DRAM.
3, 9, 43, 49	VDDQ	Power for I/O buffer	Separated power from VDD, to improve DQ noise immunity.
6, 12, 46, 52	VSSQ	Ground for I/O buffer	Separated ground from VSS, to improve DQ noise immunity.
36, 40	NC	No Connection	No connection.

W9864G6KH-6 Block diagram



PCM1690 (HDMI : U1019)



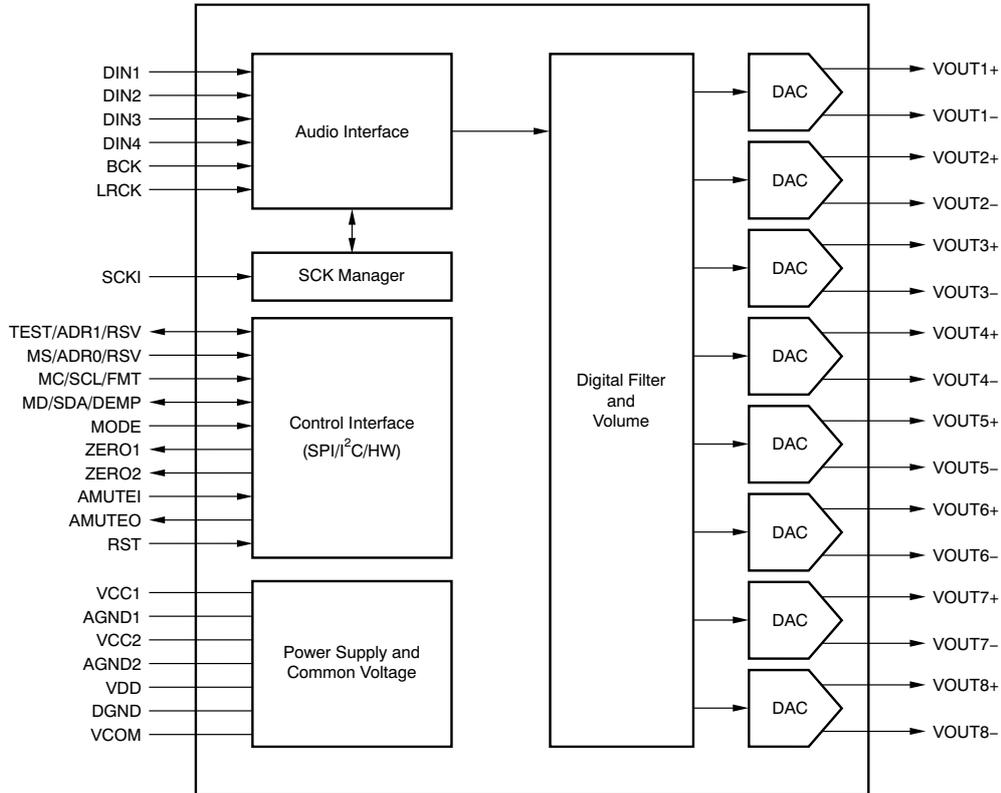
PCM1690 Pin Function

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

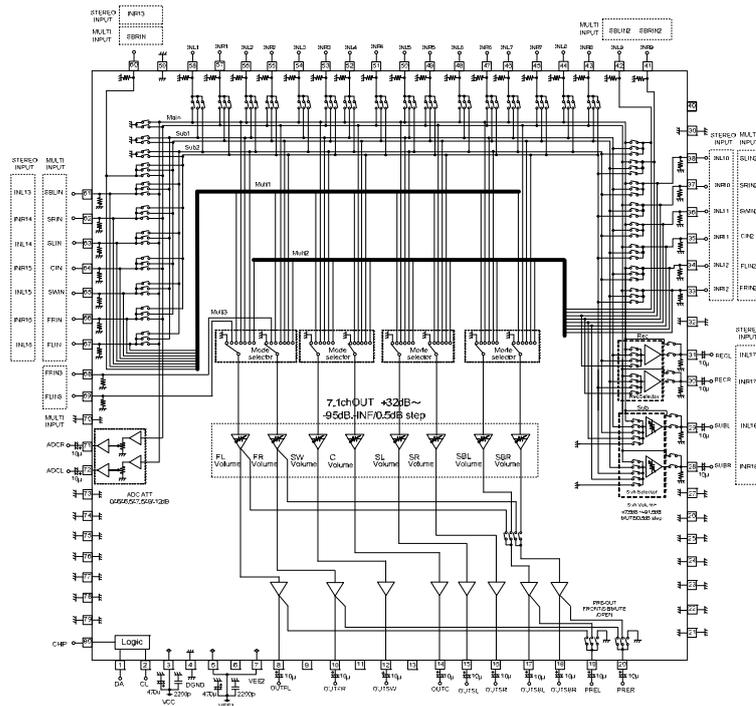
TERMINAL		I/O	PULL-DOWN	5-V TOLERANT	DESCRIPTION
NAME	PIN				
VOUT1+	43	O	No	No	Positive analog output from DAC1
VOUT1-	44	O	No	No	Negative analog output from DAC1
RSV2	45	—	—	—	Reserved, tied to analog ground
AGND2	46	—	—	—	Analog ground 2
VCC2	47	—	—	—	Analog power supply 2, +5 V
RSV2	48	—	—	—	Reserved,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

(1) Open-drain configuration in out mode.

PCM1690 FUNCTIONAL BLOCK DIAGRAM

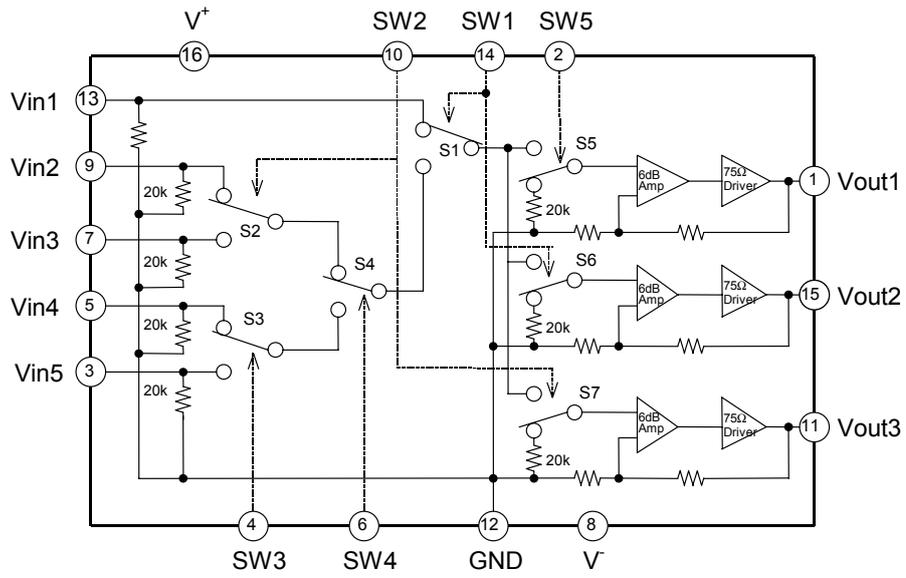


BD34704KS2 (AV : IC4200)



PIN No.	SYMBOL	PIN No.	SYMBOL	PIN No.	SYMBOL	PIN No.	SYMBOL
1	DA	21	GND	61	SBLIN	41	INR9(SBRIN2)
2	CL	22	GND	62	SRIN	42	INL9(SBLIN2)
3	VCC	23	GND	63	SLIN	43	INR8
4	DGND	24	GND	64	CIN	44	INL8
5	VEE1	25	GND	65	SWIN	45	INR7
6	N.C.	26	GND	66	FRIN	46	INL7
7	VEE2	27	GND	67	FLIN	47	INR6
8	OUTFL	28	SUBR	68	FRIN3	48	INL6
9	N.C.	29	SUBL	69	FLIN3	49	INR5
10	OUTFR	30	RECR	70	GND	50	INL5
11	N.C.	31	RECL	71	ADCR	51	INR4
12	OUTSW	32	GND	72	ADCL	52	INL4
13	N.C.	33	INR12(FRIN2)	73	GND	53	INR3
14	OUTC	34	INL12(FLIN2)	74	GND	54	INL3
15	OUTSL	35	INR11(CIN2)	75	GND	55	INR2
16	OUTSR	36	INL11(SWIN2)	76	GND	56	INL2
17	OUTSBL	37	INR10(SRIN2)	77	GND	57	INR1
18	OUTSBR	38	INL10(SLIN2)	78	GND	58	INL1
19	OUTPL	39	GND	79	GND	59	GND
20	OUTPR	40	N.C.	80	CHIP	60	SBRIN

NJM2595MTE1 (AV : IC5401)



ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G	14G	15G	16G	17G	18G
																	(AD3)	(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	YOTAL
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	DC
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	dB
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	AUDYASSY
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 below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

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

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

B : Black model SG : Silver Gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
SEMICONDUCTORS GROUP						
D4003	00D2760401905	D,SWITCHING 1SS133-DO34-AXIAL LRC		K000013300040S	1	
D4006	963203500300D	D,RECTIFIER BRIDGE DIODE BRIDGE D10SB60 600V/10A STRAIGHT TYPE		K047100600220S	1	
D4007-4013	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	7	
D4016-4019	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	4	
DZ4000	963202500330D	D,ZENER ZJ6.8B-0.5W/5MA-52MM SEMTECH		K06006R844522S	1	
DZ4001	963202500290D	D,ZENER ZJ3.6B-0.5W/5MA-52MM SEMTECH		K06003R644522S	1	
IC4000	963232100400S	IC,LINEAR OP UTC4580E SOP8 DUAL OP AMP		J121458001010S	1	
Q4000	963214500310S	SEMI,CHIP TR/NPN 2SC RT1N237C 0.2W/SC-59 ISAHAYA		J522102371210S	1	
Q4002	963214500310S	SEMI,CHIP TR/NPN 2SC RT1N237C 0.2W/SC-59 ISAHAYA		J522102371210S	1	
Q4004	963214500310S	SEMI,CHIP TR/NPN 2SC RT1N237C 0.2W/SC-59 ISAHAYA		J522102371210S	1	
Q4006	963214500310S	SEMI,CHIP TR/NPN 2SC RT1N237C 0.2W/SC-59 ISAHAYA		J522102371210S	1	
Q4011	963214500310S	SEMI,CHIP TR/NPN 2SC RT1N237C 0.2W/SC-59 ISAHAYA		J522102371210S	1	
ZD4057	963202500290D	D,ZENER ZJ3.6B-0.5W/5MA-52MM SEMTECH		K06003R644522S	1	
RESISTOR GROUP						
R4000-4004	nsp	R,CARBON FILM 10-J,1/5W-52RE-AX		C00001006P520S	5	
R4007-4011	963125010100S	R,METAL FILM 100PPM 10-J 2W, R-REEL		C060010066050S	5	
R4016,4017	nsp	R,METAL FILM 100PPM 470-J,1W-R.REEL		C060047165050S	2	
R4020	nsp	R,METAL FILM 100PPM 10K-J,1/4W-R.REEL		C060103063050S	1	
R4022	963125500070D	R,METAL FILM 100PPM 1.1K-J,1W-R.REEL		C060011265050S	1	
R4024	963125500070D	R,METAL FILM 100PPM 1.1K-J,1W-R.REEL		C060011265050S	1	
R4027	963125500070D	R,METAL FILM 100PPM 1.1K-J,1W-R.REEL		C060011265050S	1	
R4034-4038	nsp	R,CHIP THICK 470K-J,1/16W-1608REEL		C20004746M160S	5	
R4041	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	1	
R4042	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	1	
R4043	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	1	
R4044	nsp	R,CARBON FILM 3.3K-J,1/5W-52RE-AX		C00003326P520S	1	
R4045	nsp	R,CHIP THICK 22K-J,1/16W-1608REEL		C20002236M160S	1	
R4046	nsp	R,CHIP THICK 33K-J,1/16W-1608REEL		C20003336M160S	1	
R4047	nsp	R,CHIP THICK 330K-J,1/16W-1608REEL		C20003346M160S	1	
R4048	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	1	
R4049	nsp	R,CHIP THICK 22K-J,1/16W-1608REEL		C20002236M160S	1	
R4050	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	1	
R4051	nsp	R,CHIP THICK 1K-J,1/16W-1608REEL		C20001026M160S	1	
R4052,4053	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	2	
R4055-4058	nsp	R,CHIP THICK 0-J,1/8W-3216REEL		C20000061301S	4	
R4061	963129501010S	R,CEMENT MPR 0.01-J/5W W14*H18 9MM PITCH		C144R01069000S	1	
R4636,4637	nsp	R,CHIP THICK 33-J,1/16W-1608REEL		C20003306M160S	2	
CAPACITORS GROUP						
C4000-4004	963133502350S	C,FILM POLYESTER MI-0.047UF-J/100V-5RE HMM473J2AP050T DAEHUNG		D02047316C250S	5	
C4007	nsp	C,ELECT GE 85C 100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1	
C4008-4012	963133502350S	C,FILM POLYESTER MI-0.047UF-J/100V-5RE HMM473J2AP050T DAEHUNG		D02047316C250S	5	
C4015	nsp	C,ELECT GE 85C 10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4016-4020	nsp	C,CERAMIC CHIP HIK X7R)2200PF-K/50V-1608REEL	U, K	D011222777160S	5	
C4016-4020	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1608REEL	N	D011103777160S	5	
C4030,4031	00D9639003107	C,ELECT GE 85C 6800UF-M/63V DL,30*40-VNSN SY		D040682088010S	2	
C4033	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1608REEL	U, K	D011102777160S	1	
C4033	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL	N	D011104577160S	1	
C4036	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1608REEL	U, K	D011102777160S	1	
C4036	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL	N	D011104577160S	1	
C4039	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1608REEL	U, K	D011102777160S	1	
C4039	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL	N	D011104577160S	1	
C4042	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1608REEL	U, K	D011102777160S	1	
C4042	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL	N	D011104577160S	1	
C4045	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1608REEL	U, K	D011102777160S	1	
C4045	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL	N	D011104577160S	1	
C4053	nsp	C,FILM POLYESTER RED-0.1UF-K/250V-5RE PCMT365		D02010407H080S	1	
C4054	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1608REEL		D011102777160S	1	
C4056	nsp	C,ELECT GE 85C 0.1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040R10087080S	1	
C4057	nsp	C,FILM POLYESTER RED-0.1UF-K/250V-5RE PCMT365		D02010407H080S	1	
C4058	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/25V-1608REEL		D011104774161S	1	
C4059	nsp	C,ELECT GE 85C 10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4060,4061	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/25V-1608REEL		D011104774161S	2	
C4062	nsp	C,ELECT GE 85C 100UF-M/16V,5*11-5RE,SHL SY		D040101083090S	1	
C4064	nsp	C,CERAMIC CHIP T.C COG)10PF-J/50V-1608REEL		D010100167161S	1	
C4065	nsp	C,CERAMIC CHIP T.C COG)100PF-J/50V-1608REEL		D010101167160S	1	
C4066-4068	nsp	C,ELECT GE 85C 1UF-M/100V,5*11-5RE.SMS SY		D040010086060S	3	
OTHER PARTS GROUP						
BKT4000	nsp	TERMINAL MET37-0002/TAPIG EARTH FITTING		3790040886000S	1	
CLP4000-4005	nsp	CLAMP HMX9800(ON)(HAITAI) (W=2.6,L=50)WIRE(SOLDER)		4330000120000S	6	
CLP4008-4010	nsp	CLAMP HMX9800(ON)(HAITAI) (W=2.6,L=50)WIRE(SOLDER)		4330000120000S	3	
CN4000	nsp	CN,WIRE 230MM/5P YMH025-05=CKM2509HV-05 RD1569#22 105C		L000231050090S	1	
CN4005	nsp	CN,WIRE 220MM/8P YMH025-08=CKM2509HV-08 WH1569#22 105C		L000221080090S	1	
CN4602	nsp	CN,WAFER 1.25B-2-13Y 13P BtoB SOCKET(FEMALE) P=1.25MM		L109125421310S	1	
CN4603	nsp	CN,WAFER 1.25B-2-15Y 15P BtoB SOCKET(FEMALE) P=1.25MM		L109125421510S	1	
CN4605	nsp	CN,WAFER 1.25B-2-23Y 23P BtoB SOCKET(FEMALE) P=1.25MM		L109125422310S	1	
CN4606	nsp	CN,WAFER 1.25B-2-11Y 11P BtoB SOCKET(FEMALE) P=1.25MM		L109125421110S	1	
CP4000	nsp	CN.WAFER 2.0MM 20010WS-13A00 DIP13P STRAIGHT		L101200101310S	1	
CP4001	nsp	CN.WAFER 7.92MM LWB1143-07P 7.92MM HEADER,VER,7CKT		L108011430710S	1	
CP4002	nsp	CN.WAFER 2.0MM 20010WS-04A00 DIP4P STRAIGHT		L101200100410S	1	
CP4603	nsp	CN,WAFER 1.25B-2-23A 23P BtoB HEADER(MALE) P=1.25MM		L109125322310S	1	
CP4604	nsp	CN,WAFER 1.25B-2-27A 27P BtoB HEADER(MALE) P=1.25MM		L109125322710S	1	
CP4607	nsp	CN,WAFER 1.25B-2-15A 15P BtoB HEADER(MALE) P=1.25MM		L109125321510S	1	
CP4617	nsp	CN.WAFER 2.0MM 20010WR-11A00 DIP11P RIGHT ANGLE		L101200101120S	1	
! F4000	963652010520S	FUSE GLASS TUBE 20MM T6.3A/250V-IVBSUCPCcUR S506		N751506301160S	1	
F4000A	nsp	HOLDER,FUSE CLIP PI5.2-REEL		G645000050010S	1	
F4000B	nsp	HOLDER,FUSE CLIP PI5.2-REEL		G645000050010S	1	
! F4001	963652010520S	FUSE GLASS TUBE 20MM T6.3A/250V-IVBSUCPCcUR S506		N751506301160S	1	
F4001A	nsp	HOLDER,FUSE CLIP PI5.2-REEL		G645000050010S	1	
F4001B	nsp	HOLDER,FUSE CLIP PI5.2-REEL		G645000050010S	1	
JACK4000	963646100530S	TER,BOARD SCREW 6P JB-601AW-02(3RD/3BK)		G613602AW020YS	1	
JACK4001	963646100550S	TER,BOARD SCREW 4P JB-405EW-02 Stud(Clear) (RD,RD/BK,BK)		G612405EW020YS	1	
L4000-4004	nsp	COIL,FILTER-INDUCTOR SP-2507 1.0 PI*2UEW TURNS=7T SPRING COIL		D330900001330S	5	
N4600	nsp	CN.FPC 1.0MM 1.0-11S-4PW 4P AN DIP TOP CONTACT		L130100110450S	1	
RLY4000-4002	963682100280D	RELAY JZC-42F/012-2HST 24.4*12.8*24.8mm		G680060103010S	3	
RLY4004	963682100560S	RELAY HFD27/012-S 24V 2A (SMALL SIGNAL)		G680240202080S	1	
RLY4005	963682100510S	RELAY HF115F/012-2ZS4B		G680060083010S	1	

REG_SMPS_FCNT PCB ASS'Y

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

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

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

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

B : Black model SG : Silver Gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
SEMICONDUCTORS GROUP						
D4140-4146	963201500160D	D,SWITCHING 1N4007 52REEL 1000V 1A		K000400700220S	7	
! D4147	203050019501S	D,FAST RECOVERY AP01C-V1 52RE-AX FAST RECOVERY RECTIFIER DIODES		K050000015000S	1	
D4148	963201500160D	D,SWITCHING 1N4007 52REEL 1000V 1A		K000400700220S	1	
D4149	963204500210D	D,SCHOTTKY S30SC6MT 60V 30A TO-3P(MTO-3PT) SHINDENGEN		K120300600010S	1	
D4150	00D2760401905	D,SWITCHING 1SS133-DO34-AXIAL LRC		K000013300040S	1	
D4600	00D2760401905	D,SWITCHING 1SS133-DO34-AXIAL LRC		K000013300040S	1	
D4604-4607	00D2760401905	D,SWITCHING 1SS133-DO34-AXIAL LRC		K000013300040S	4	
D4612-4627	963201500160D	D,SWITCHING 1N4007 52REEL 1000V 1A		K000400700220S	16	
IC4140	943231102160S	IC,LINEAR POWER TOP268VG eDIP-12 OFF-LINE POWER SUPPLY IC		J122268001010S	1	
! IC4142	00D2623047008	PHOTO,COUPLER PC123X2YFZ (DIP4P SHARP)		K614123000010S	1	
IC4143	212050010508S	IC,LINEAR-REGULATOR KIA2431AP,0.7W TO-92		J126243118010S	1	
IC4600	00D2631100005	IC,LINEAR-REGULATOR KIA7805API,20W-TO220IS MOLD		J126780500110S	1	
IC4602	00D2631099006	IC,LINEAR-REGULATOR KIA7905PI,20W-TO220IS MOLD		J126790500070S	1	
IC4603	00D2631251006	IC,LINEAR-REGULATOR KIA7908PI,20W-TO220IS		J126790800060S	1	
IC4604	00D2631100005	IC,LINEAR-REGULATOR KIA7805API,20W-TO220IS MOLD		J126780500110S	1	
IC4605	00D2631100050	IC,LINEAR-REGULATOR KIA7808API,20W-TO220IS		J126780800050S	1	
TR4141	943229500110S	SEMI,FET CHIP INK0010AC1 N-CH MOSFET SC-59 ISAHAYA		J543001012010S	1	
TR4142	963213500170D	SEMI,TR/GE NPN 2SC KTC3198G,0.6W/TO92-REEL		J5023198G0000S	1	
U4002	943239100730S	IC,LINEAR-RESET PST8448UR SYSTEM RESET SC-82AB MITSUMI		J125844800010S	1	
ZD4147-4149	963202500370D	D,ZENER ZJ39B-0.5W/5MA-52MM SEMTECH	U	K06039R044522S	3	
ZD4150	963202500970S	D,ZENER ZJ27B-0.5W/5MA-52MM SEMTECH		K06027R044522S	1	
ZD4151-4157	963202500350D	D,ZENER ZJ22B-0.5W/5MA-52MM SEMTECH		K06022R044522S	7	
ZD4158	963202500370D	D,ZENER ZJ39B-0.5W/5MA-52MM SEMTECH		K06039R044522S	1	
ZD4159	963202500320D	D,ZENER ZJ5.6B-0.5W/5MA-52MM SEMTECH		K06005R644522S	1	
ZD4160	963202501020S	D,ZENER ZJ7.5B-0.5W/5MA-52MM SEMTECH	U	K06007R544522S	1	*
ZD4160	963202500340D	D,ZENER ZJ15B-0.5W/5MA-52MM SEMTECH	N, K	K06015R044522S	1	
ZD4162-4164	963202500960S	D,ZENER ZJ12B-0.5W/5MA-52MM SEMTECH		K06012R044522S	3	
RESISTOR GROUP						
R4141,4142	nsp	R,CARBON FILM 1M-J,1/5W-52RE-AX		C00001056P520S	2	
R4143	nsp	R,CARBON FILM 330K-J,1/5W-52RE-AX		C00003346P520S	1	
R4145	nsp	R,CHIP THICK 1M-J,1/16W-1608REEL		C20001056M160S	1	
R4147	nsp	R,CHIP THICK 270K-J,1/16W-1608REEL	U	C20002746M160S	1	
R4147	nsp	R,CHIP THICK 56K-J,1/16W-1608REEL	N, K	C20005636M160S	1	
R4148,4149	nsp	R,CARBON FILM 2.2M-J,1/5W-52RE-AX	U	C00002256P520S	2	
R4150	nsp	R,CARBON FILM 1M-J,1/5W-52RE-AX	U	C00001056P520S	1	
R4151	nsp	R,CHIP THICK 11K-J,1/16W-1608REEL		C20001136M160S	1	
R4152	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL	U	C20001036M160S	1	
R4152	nsp	R,CHIP THICK 20K-J,1/16W-1608REEL	N, K	C20002036M160S	1	
R4153	nsp	R,CARBON FILM 6.8-J,1/5W-52RE-AX		C0006R806P520S	1	
R4154	nsp	R,CHIP THICK 10-J,1/16W-1608REEL		C20001006M160S	1	
R4155	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	1	
R4156	nsp	R,CHIP THICK 4.7K-J,1/16W-1608REEL		C20004726M160S	1	
R4157	nsp	R,CARBON FILM 56-J,1/5W-52RE-AX		C00005606P520S	1	
R4158	nsp	R,CARBON FILM 3.3K-J,1/5W-52RE-AX		C00003326P520S	1	
R4159	nsp	R,CARBON FILM 5.6K-J,1/5W-52RE-AX		C00005626P520S	1	
R4160	nsp	R,CHIP THICK 22K-F,1/16W-1608REEL		C20002234M161S	1	
R4161	nsp	R,CHIP THICK 6.8K-D,1/16W-1608REEL		C20006821M160S	1	
R4163	nsp	R,CHIP THICK 330-J,1/16W-1608REEL		C20003316M160S	1	
R4164	nsp	R,CARBON FILM 1M-J,1/5W-52RE-AX		C00001056P520S	1	
CAPACITORS GROUP						
! C4140,4141	963134011730S	C,CERAMIC AC(SAFETY) DE1B3KX471KB4BL01 AC250V BULK MURATA		D00847127H010S	2	
! C4142	963132011940S	C,CERAMIC AC(SAFETY) DE2F3KY103MB3BM02 AC250V BULK MURATA		D008103589010S	1	
! C4143	nsp	C,FILM P.PROPYLENE 0.1UF-K/275V BULK X2 MPX104K3ID2 P=15MM CARLI		D02110407H010S	1	
C4145-4147	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	3	
! C4148,4149	963132011940S	C,CERAMIC AC(SAFETY) DE2F3KY103MB3BM02 AC250V BULK MURATA		D008103589010S	2	
C4151	943134501590S	C,ELECT GE 105C 100UF-M/200V,16*20 BULK NHA SY	U	D04110108G000S	1	
C4151	963134010200S	C,ELECT GE 105C 100UF-M/400V,18*31.5 BULK NHA SY	N, K	D04110108K000S	1	
C4152	963134010210S	C,ELECT GE 105C 47UF-M/25V,5*11-5RE NXA SY		D041470084050S	1	
C4153	963132010120S	C,CERAMIC AC(SAFETY) DEHR33A102KB2B		D00810207Q010S	1	
C4154	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	1	
C4155	963134010190S	C,ELECT GE 105C 10UF-M/50V,5*11-5RE NXA SY		D041100087050S	1	
! C4156	963132011930S	C,CERAMIC AC(SAFETY) DE1E3KX222MB4BL01 AC250V BULK MURATA	U	D00822248H010S	1	
! C4156	963133502500S	C,CERAMIC AC(SAFETY) DE1E3KX332MB4BN01F	N, K	D00833208H010S	1	
C4159	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	1	
C4160	nsp	C,CERAMIC CHIP HIK X7R)1UF-K/10V-1608REEL		D011105772161S	1	
C4161	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D0111475571160S	1	
C4162-4164	963134010220S	C,ELECT GE 105C 5600UF-M/6.3V,12.5*35 NXA SY		D041562081001S	3	
C4165,4166	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	2	
C4167	nsp	C,CERAMIC CHIP HIK X7R)0.015UF-K/50V-1608REEL		D011153777160S	1	
C4170	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	1	
C4600	963134502440S	C,ELECT GE 85C 470UF-M/50V,12.5*15 BULK MHA SY		D040471087070S	1	
C4602	nsp	C,ELECT GE 85C 10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4604,4605	nsp	C,ELECT GE 85C 100UF-M/16V,5*11 KR3-016V101MC110-T/A5.0S KOSHIN		D040101083650S	2	*
C4606,4607	nsp	C,ELECT GE 85C 10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2	
C4608,4609	90M-OA000500R	C,ELECT GE 85C 4700UF-M/25V(MHA),16*25 P=7.5 L.BLK		D040472084240S	2	
C4610	963134011290S	C,ELECT GE 85C 4700UF-M/16V,16*25-L.BLK SMS 5.0MC SY		D040472083020S	1	
C4611	00D9630217002	C,ELECT GE 85C 3300UF-M/16V,12.5*25L.BLK SHL 5.0MC SY		D040332083010S	1	
C4612,4613	963133502380S	C,FILM POLYESTER MI-0.1UF-J/100V-5RE HMM104J2AP050T DAEHUNG		D02010416C250S	2	
OTHER PARTS GROUP						
BKT4141	nsp	BRACKET VSX523K/CUXESM(PIONEER) Burring HOLE SPTE 0.8t/SCR		4010215796000S	1	
BKT4142	nsp	BRACKET AVRX2200WBKE3(DENON) SPCC t0.8+SN plating A4/SCREW		401021019600DS	1	*
BKT4602	nsp	BRACKET AVRX2200WBKE3(DENON) SPCC t0.8+SN plating A4/SCREW		401021019600DS	1	*
CLP4600	nsp	CLAMP HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	1	
CLP4603,4604	nsp	CLAMP HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	2	
CLP4606,4607	nsp	CLAMP HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	2	
CN4141	nsp	CN,WIRE 210MM/6P YMH025-06=CKM2509HV-06 WH1007#22		L000211060080S	1	*
CN4600,4601	nsp	CN,WAFER 1.25B-2-9Y 9P BtoB SOCKET(FEMALE) P=1.25MM		L109125420910S	2	
CN4607	nsp	CN,WIRE 2MM 120MM/4P 20010HS-04=CKM2002HV-04 WH1007#26		L002121040110S	1	
CN4615	nsp	CN,WIRE 2MM 120MM/11P 20010HS-11=CKM2002HV-11 WH1007#26		L002121110041S	1	
! CP4142	nsp	CN,WAFER 7.92MM LWB1143-02P 7.92MM HEADER,VER,2CKT		L108011430210S	1	
CP4600,4601	nsp	CN,WAFER 1.25B-2-9A 9P BtoB HEADER(MALE) P=1.25MM		L109125320910S	2	
CP4607	nsp	CN,WAFER 2.5MM YMW025-08R DIP ST		L102025080020S	1	
CP4611	nsp	CN,WAFER 1.25B-2-21A 21P BtoB HEADER(MALE) P=1.25MM		L109125322110S	1	
CP4612	nsp	CN,WAFER 1.25B-2-17A 17P BtoB HEADER(MALE) P=1.25MM		L109125321710S	1	
CP4614	nsp	CN,WAFER 1.25B-2-11A 11P BtoB HEADER(MALE) P=1.25MM		L109125321110S	1	
CP4615	nsp	CN,WAFER 2.0MM 20010WR-04A00 DIP4P RIGHT ANGLE		L101200100420S	1	
! F4601,4602	963644101960S	FUSE,MICRO 1.6A 250V SS-5 TIME DELAY RADIAL LEADED FUSE		G658162250050S	2	
! F4603	963652010500S	FUSE GLASS TUBE 20MM T1.6A/250V-IVBUSUCPCcUR S506		N751501601160S	1	
F4603A	nsp	HOLDER,FUSE CLIP PI5.2-REEL		G645000050010S	1	
F4603B	nsp	HOLDER,FUSE CLIP PI5.2-REEL		G645000050010S	1	
! F4604	963652010500S	FUSE GLASS TUBE 20MM T1.6A/250V-IVBUSUCPCcUR S506		N751501601160S	1	
F4604A	nsp	HOLDER,FUSE CLIP PI5.2-REEL		G645000050010S	1	
F4604B	nsp	HOLDER,FUSE CLIP PI5.2-REEL		G645000050010S	1	
JK4140	nsp	CN,WAFER 7.92MM PLUG YW396-03AV 2P		L108396030010S	1	
! L4140	963111101060S	COIL,LINE FILTER SQ2014 27mH VERTICAL TYPE LINE FILTER	U	D320201405510V	1	*

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
!	L4140	963111101070S	COIL,LINE FILTER SQ2014 50mH VERTICAL TYPE LINE FILTER	N, K		D320201405000V	1	*
!	RLY4140	963682100290D	RELAY JZC-36FD/005-HLT 23.8*9.5*24.5mm			G680060103030S	1	
	T4140	963102100540S	TRANS,SWITCHING EER2525 SW TRANSFORMER			E060252505510V	1	
!	F4140	963652010510S	FUSE GLASS TUBE 20MM T2A/250V-IVBSUCPCcUR S506	U		N751502001160S	1	
!	F4140	963652010500S	FUSE GLASS TUBE 20MM T1.6A/250V-IVBSUCPCcUR S506	N, K		N751501601160S	1	
★		nsp	LABEL AVR1611 T1.6AL/250V /FUUSE	K		5507000006790S	1	
	F4140_1	nsp	HOLDER,FUSE CLIP PI5.2-REEL			G645000050010S	1	
	F4140_2	nsp	HOLDER,FUSE CLIP PI5.2-REEL			G645000050010S	1	
!	F4141	963652010520S	FUSE GLASS TUBE 20MM T6.3A/250V-IVBSUCPCcUR S506	U		N751506301160S	1	
!	F4141	963652010910S	FUSE GLASS TUBE 20MM T3.15A/250V-IVBSUCPCcUR S506	N, K		N751503151160S	1	
★		nsp	LABEL AVR1911 T3.15AL/250V /FUUSE	K		5507000006800S	1	
	F4141_1	nsp	HOLDER,FUSE CLIP PI5.2-REEL			G645000050010S	1	
	F4141_2	nsp	HOLDER,FUSE CLIP PI5.2-REEL			G645000050010S	1	

FRONT PCB ASS'Y

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

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

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

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

B : Black model SG : Silver Gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
SEMICONDUCTORS GROUP						
D4400,4401	963201500160D	D,SWITCHING 1N4007 52REEL 1000V 1A		K000400700220S	2	
D4409,4410	963209003510S	D,ESD CHIP CDS3C05HDMI1 CERADIODE ESD FOR HDMI 1608REEL		K067030500010S	2	
D4411	963209500020S	D,ESD CHIP CDS3C15GTA 1608REEL CERADIODE ESD B72500D0150A060		K067031500010S	1	
D4412-4415	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	4	
IC4400	963232100400S	IC,LINEAR OP UTC4580E SOP8 DUAL OP AMP		J121458001010S	1	
Q4400	00D963022670S	SEMI,TR/GE NPN 2SC KTC1027Y,1W/TO92L-REEL		J5021027Y0020S	1	
Q4401	943215500020S	SEMI,CHIP TR/PNP 2SA RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	1	
Q4402	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q4403	943214500020S	SEMI,CHIP TR/NPN 2SC 2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1	
Q4404	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q4405	943214500020S	SEMI,CHIP TR/NPN 2SC 2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1	
Q4406	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q4407	943216500050S	SEMI,CHIP TR/NPN 2SC RT1N441C 0.2W/SC-59 ISAHAYA		J522104411210S	1	
Q4408	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
U4400	943172100150S	DISPLAY,FLT 018BT021GINK 129*25*6.1 GREEN /AVR1913		K530180210010S	1	
ZD4400	963202500330D	D,ZENER ZJ6.8B-0.5W/5MA-52MM SEMTECH		K06006R844522S	1	
ZD4401	963202500350D	D,ZENER ZJ22B-0.5W/5MA-52MM SEMTECH		K06022R044522S	1	
ZD4402	963202500340D	D,ZENER ZJ15B-0.5W/5MA-52MM SEMTECH		K06015R044522S	1	
ZD4404-4406	963202500310D	D,ZENER ZJ5.1B-0.5W/5MA-52MM SEMTECH		K06005R144522S	3	
RESISTOR GROUP						
R4400,4401	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	2	
R4402	00D9639006272	R,FIXED,M.O. RSD-R1-1WJ-4.7 3*9 P=5MM SMALL R.REEL		N113135647920S	1	
R4403	nsp	R,CHIP THICK 0-J,1/16W-1608REEL	U	C20000006M160S	1	
R4403	nsp	R,CHIP THICK 1.2-J,1/16W-1608REEL	N, K	C2001R200M160S	1	
R4405-4408	nsp	R,CHIP THICK 4.7K-J,1/16W-1608REEL		C20004726M160S	4	
R4410	nsp	R,CHIP THICK 0-J,1/16W-1608REEL	U	C20000006M160S	1	
R4410	nsp	R,CHIP THICK 1.2-J,1/16W-1608REEL	N, K	C2001R200M160S	1	
R4411-4414	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	4	
R4415,4416	nsp	R,CHIP THICK 4.7K-J,1/16W-1608REEL		C20004726M160S	2	
R4418,4419	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	2	
R4420	nsp	R,CHIP THICK 100K-J,1/16W-1608REEL		C20001046M160S	1	
R4421-4423	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	3	
R4424	nsp	R,CHIP THICK 1K-J,1/16W-1608REEL		C20001026M160S	1	
R4425	nsp	R,CHIP THICK 39K-J,1/16W-1608REEL		C20003936M160S	1	
R4426,4427	nsp	R,CHIP THICK 150-J,1/16W-1608REEL		C20001516M160S	2	
R4428	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	1	
R4429	nsp	R,CHIP THICK 100K-J,1/16W-1608REEL		C20001046M160S	1	
R4430	nsp	R,CARBON FILM 220-J,1/5W-52RE-AX		C00002216P520S	1	
R4431	nsp	R,CHIP THICK 39K-J,1/16W-1608REEL		C20003936M160S	1	
R4433	nsp	R,CHIP THICK 390-J,1/16W-1608REEL		C20003916M160S	1	
R4434	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	1	
R4435-4437	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	3	
R4439	nsp	R,CHIP THICK 300-J,1/16W-1608REEL		C20003016M160S	1	
R4441	nsp	R,CHIP THICK 39K-J,1/16W-1608REEL		C20003936M160S	1	
R4442,4443	nsp	R,CHIP THICK 10-J,1/16W-1608REEL		C20001006M160S	2	
R4444	nsp	R,CHIP THICK 0-J,1/16W-1608REEL		C20000006M160S	1	
R4445	nsp	R,CHIP THICK 47K-J,1/16W-1608REEL		C20004736M160S	1	
R4446	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	1	
R4447	nsp	R,CHIP THICK 18K-J,1/16W-1608REEL		C20001836M160S	1	
R4449	nsp	R,CHIP THICK 820-J,1/16W-1608REEL		C20008216M160S	1	
R4450	nsp	R,CHIP THICK 4.7K-J,1/16W-1608REEL		C20004726M160S	1	
R4451	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	1	
R4452	nsp	R,CHIP THICK 2.2K-J,1/16W-1608REEL		C20002226M160S	1	
R4453	nsp	R,CHIP THICK 560-J,1/16W-1608REEL		C20005616M160S	1	
R4454	nsp	R,CHIP THICK 2.2K-J,1/16W-1608REEL		C20002226M160S	1	
R4455	nsp	R,CHIP THICK 100K-J,1/16W-1608REEL		C20001046M160S	1	
R4456	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	1	
R4459	nsp	R,CHIP THICK 100K-J,1/16W-1608REEL		C20001046M160S	1	
R4460	nsp	R,CHIP THICK 0-J,1/16W-1608REEL		C20000006M160S	1	
CAPACITORS GROUP						
C4400,4401	nsp	C,ELECT GE 85C 10UF-M/16V,3*5-5RE SY		D040100083050S	2	
C4402,4403	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	2	
C4404	nsp	C,ELECT GE 85C 10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4405,4406	963133502530S	C,FILM POLYESTER ST-0.1UF-J/100V-5RE HPE104J2AP050T DAEHUNG		D02010406C250S	2	
C4407	nsp	C,ELECT GE 85C 10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C4408	nsp	C,ELECT GE 85C 100UF-M/63V,8*11.5 SHL SY		D040101088050S	1	
C4409	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	1	
C4411	nsp	C,ELECT GE 85C 1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	1	
C4412-4415	nsp	C,CERAMIC CHIP T.C COG470PF-J/50V-1608REEL		D010471167160S	4	
C4416,4417	nsp	C,CERAMIC CHIP HIK X7R0.01UF-K/50V-1608REEL		D011103777160S	2	
C4418	nsp	C,ELECT GE 85C 1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	1	
C4419	nsp	C,ELECT GE 85C 100UF-M/10V,5*11-5RE.SMS SY		D040101082070S	1	
C4420-4422	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	3	
C4424	nsp	C,CERAMIC CHIP HIK X7R0.01UF-K/50V-1608REEL		D011103777160S	1	
C4425-4427	nsp	C,CERAMIC CHIP T.C COG100PF-J/50V-1608REEL		D010101167160S	3	
C4428	nsp	C,CERAMIC CHIP HIK Y5V1UF-Z/50V-1608REEL		D011105597160S	1	
C4430-4435	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	6	
C4437	nsp	C,CERAMIC CHIP T.C COG82PF-J/50V-1608REEL		D010820167160S	1	
C4438	nsp	C,ELECT GE 85C 100UF-M/10V,6.3*5-5RE SY (Pb Free) SY		D040101082130S	1	
C4439	nsp	C,CERAMIC CHIP T.C COG100PF-J/50V-1608REEL		D010101167160S	1	
C4441	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	1	
C4442	nsp	C,ELECT GE 85C 220UF-M/6.3V,8*5-5RE SRE SY		D040221081070S	1	
C4443,4444	nsp	C,CERAMIC CHIP T.C COG)1000PF-J/50V-1608REEL		D010102167160S	2	
C4446	nsp	C,ELECT GE 85C 10UF-M/16V,3*5-5RE SY		D040100083050S	1	
C4448	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	1	
C4449	nsp	C,ELECT GE 85C 1UF-M/50V,3*5-5RE SY (Pb Free)		D040010087090S	1	
C4451,4452	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	2	
C4453,4454	nsp	C,CERAMIC CHIP HIK X7R0.01UF-K/50V-1608REEL		D011103777160S	2	
OTHER PARTS GROUP						
BD4400,4401	nsp	R,CHIP THICK 0-J,1/16W-1608REEL		C20000006M160S	2	
BD4402	nsp	COIL,BEAD CB05YTYH221-2012REEL		D340201292210S	1	
CN4400	nsp	CN,WIRE 2MM 300MM/8P 20010HS-08=CKM2002HR-08 WH1007#26		L002301082630S	1	
CN4401	nsp	CN,WIRE 2MM 540MM/6P 20010HS-06=CKM2002HV-06 RD2725#24 SH 105C		L002541060020S	1	*
CP4400	nsp	CN,FPC 1.0MM 1.0-11S-40PW 40P AN DIP TOP CONTACT		L130100114050S	1	
CP4401	nsp	CN,WAFER 2.5MM YMAW025-07R DIP RA		L102025070010S	1	
CP4402	963643101610D	CN,PLUG CONTACT USB A F 180 DIP L=15.0		G480040000180S	1	
CP4403	nsp	CN,WAFER 2.0MM 20010WS-08A00 DIP8P STRAIGHT		L101200100810S	1	
! F4400	963652500020S	FUSE CHIP 6125FF500-R 500mA FAST-ACTING SUBMINIATURE FUSE		G657612505030S	1	
J4455-4457	nsp	R,CHIP THICK 0-J,1/8W-3216REEL		C200000061300S	3	
JACK4400	9636430006910M	JACK,D3.5 MINIJACK(PJ-3234A-4)SILVER RINNG		G401PJ323A40YS	1	
JACK4401	963643101120S	JACK,D6.5 PHONE (YUQIU) D6.5 9P SILVER PJ-612A-9		G402PJ612A09YS	1	
LED4400	963263100990S	LED,ROUND BL-BUF4V5K-1-HS-NP-AV-FP3.5-TBF19.5C 3PI RED		K500032001260S	1	
LED4401	963209006790M	LED,ROUND BZ-BB43V4V-2-FP5-TBF22A 5PI BLUE P=5MM		K500056000130S	1	
LED4402	963263100510S	LED,ROUND WEJ3290W-R2H0-BA 3PI RED/YELLOW GREEN BI-COLOR		K500032451010S	1	
PLT4400	nsp	PLATE NR1504U1B(MARANTZ) SPT E t0.3/FRONT HP		4470212826000S	1	

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
RMC4400	963262012130S	MODULE,REMOCON R34ES9A 36KHZ IR REMOCON MODULE P=2.54MM		E940349003610S	1		
SW4400-4408	00D9630045708	SW,TACT SKHV10920A,5MM/260G-REEL		G180000270010S	9		
VEC4400	963667100170D	SW,ENCODER EC16B12SAAD4ZZZ		G121161200070S	1		
VEC4401	963667012360S	SW,ENCODER EC16B24T01D4ZZZ 24PLUSE 360' L=25MM		G121162400060S	1		

AV PCB ASS'Y

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

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

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

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

B : Black model SG : Silver Gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
SEMICONDUCTORS GROUP						
D5221-5223	00D2760401905	D,SWITCHING 1SS133-DO34-AXIAL LRC		K000013300040S	3	
D5229	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1	
D5231,5232	963201500160D	D,SWITCHING 1N4007 52REEL 1000V 1A		K000400700220S	2	
IC4200	963235100750S	IC,ELECT VR BD34704KS2 SQFP-T80C 7.1CH SOUND PROCESSOR		J084347040010S	1	
IC5401	963235100700S	IC,MONITOR SW NJM2595M-TE1 DMP16 5-INPUT 3-OUTPUT VIDEO SWITCH		J171259500010S	1	
Q5202	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q5205	943214500030S	SEMI,CHIP TR/NPN 2SC INC2001AC1 0.2W/SC-59 ISAHAYA		J522020011210S	1	
Q5206,5207	943215500020S	SEMI,CHIP TR/PNP 2SA RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	2	
Q5209	943214500030S	SEMI,CHIP TR/NPN 2SC INC2001AC1 0.2W/SC-59 ISAHAYA		J522020011210S	1	
Q5210	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q5212	943214500030S	SEMI,CHIP TR/NPN 2SC INC2001AC1 0.2W/SC-59 ISAHAYA		J522020011210S	1	
Q5220	943215500020S	SEMI,CHIP TR/PNP 2SA RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	1	
Q5221	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q5222,5223	943215500020S	SEMI,CHIP TR/PNP 2SA RT1P141C 0.2W/SC-59 ISAHAYA		J520101411210S	2	
Q5224	943214500020S	SEMI,CHIP TR/NPN 2SC 2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1	
Q5226	943214500030S	SEMI,CHIP TR/NPN 2SC INC2001AC1 0.2W/SC-59 ISAHAYA		J522020011210S	1	
U5500-5502	963232100390S	IC,LINEAR OP NJM8080G SOP8 DUAL OP AMP		J121808000010S	3	
ZD5200	963202500290D	D,ZENER ZJ3.6B-0.5W/5MA-52MM SEMTECH		K06003R644522S	1	
RESISTOR GROUP						
R5200	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	1	
R5203,5204	nsp	R,CHIP THICK 100K-J,1/16W-1608REEL		C20001046M160S	2	
R5205-5212	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	8	
R5213-5216	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	4	
R5220	nsp	R,CHIP THICK 470-J,1/16W-1608REEL		C20004716M160S	1	
R5221	nsp	R,CHIP THICK 91K-J,1/16W-1608REEL		C20009136M160S	1	
R5225	nsp	R,CHIP THICK 91K-J,1/16W-1608REEL		C20009136M160S	1	
R5227	nsp	R,CHIP THICK 470-J,1/16W-1608REEL		C20004716M160S	1	
R5233	nsp	R,CHIP THICK 470-J,1/16W-1608REEL		C20004716M160S	1	
R5235	nsp	R,CHIP THICK 91K-J,1/16W-1608REEL		C20009136M160S	1	
R5239,5240	nsp	R,CHIP THICK 0-J,1/16W-1608REEL		C20000006M160S	2	
R5242-5245	nsp	R,CHIP THICK 0-J,1/16W-1608REEL		C20000006M160S	4	
R5247	nsp	R,CHIP THICK 91K-J,1/16W-1608REEL		C20009136M160S	1	
R5248	nsp	R,CHIP THICK 470-J,1/16W-1608REEL		C20004716M160S	1	
R5250	nsp	R,CHIP THICK 470-J,1/16W-1608REEL		C20004716M160S	1	
R5251	nsp	R,CHIP THICK 91K-J,1/16W-1608REEL		C20009136M160S	1	
R5253,5254	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	2	
R5255	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	1	
R5257,5258	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	2	
R5259	nsp	R,CHIP THICK 91K-J,1/16W-1608REEL		C20009136M160S	1	
R5260	nsp	R,CHIP THICK 470-J,1/16W-1608REEL		C20004716M160S	1	
R5261-5264	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	4	
R5266	nsp	R,CHIP THICK 820-J,1/16W-1608REEL		C20008216M160S	1	
R5267,5268	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	2	
R5269,5270	nsp	R,CHIP THICK 470-J,1/16W-1608REEL		C20004716M160S	2	
R5271	nsp	R,CHIP THICK 220-J,1/16W-1608REEL		C20002216M160S	1	
R5272,5273	nsp	R,CHIP THICK 100K-J,1/16W-1608REEL		C20001046M160S	2	
R5274	nsp	R,CHIP THICK 470K-J,1/16W-1608REEL		C20004746M160S	1	
R5276-5278	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	3	
R5281	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	1	
R5282	nsp	R,CHIP THICK 470K-J,1/16W-1608REEL		C20004746M160S	1	
R5283	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	1	
R5284	nsp	R,CHIP THICK 470K-J,1/16W-1608REEL		C20004746M160S	1	
R5285,5286	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	2	
R5289	nsp	R,CHIP THICK 1K-J,1/16W-1608REEL		C20001026M160S	1	
R5290,5291	nsp	R,CHIP THICK 470K-J,1/16W-1608REEL		C20004746M160S	2	
R5292,5293	nsp	R,CHIP THICK 100K-J,1/16W-1608REEL		C20001046M160S	2	
R5295,5296	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	2	
R5297,5298	nsp	R,CHIP THICK 470-J,1/16W-1608REEL		C20004716M160S	2	
R5299	nsp	R,CHIP THICK 220-J,1/16W-1608REEL		C20002216M160S	1	
R5301,5302	nsp	R,CHIP THICK 470-J,1/16W-1608REEL		C20004716M160S	2	
R5303	nsp	R,CHIP THICK 220-J,1/16W-1608REEL		C20002216M160S	1	
R5305,5306	nsp	R,CHIP THICK 100K-J,1/16W-1608REEL		C20001046M160S	2	
R5308	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	1	
R5309	nsp	R,CHIP THICK 470K-J,1/16W-1608REEL		C20004746M160S	1	
R5315	nsp	R,CHIP THICK 470-J,1/16W-1608REEL		C20004716M160S	1	
R5323	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	1	
R5326	nsp	R,CHIP THICK 100K-J,1/16W-1608REEL		C20001046M160S	1	
R5331	nsp	R,CHIP THICK 220-J,1/16W-1608REEL		C20002216M160S	1	
R5336	nsp	R,CHIP THICK 470-J,1/16W-1608REEL		C20004716M160S	1	
R5337	nsp	R,CHIP THICK 100K-J,1/16W-1608REEL		C20001046M160S	1	
R5338	nsp	R,CHIP THICK 470K-J,1/16W-1608REEL		C20004746M160S	1	
R5348,5349	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	2	
R5352	nsp	R,CHIP THICK 33K-J,1/16W-1608REEL		C20003336M160S	1	
R5353	nsp	R,CHIP THICK 4.7K-J,1/16W-1608REEL		C20004726M160S	1	
R5354	nsp	R,CHIP THICK 18K-J,1/16W-1608REEL		C20001836M160S	1	
R5355	nsp	R,CHIP THICK 47-J,1/16W-1608REEL		C20004706M160S	1	
R5408	nsp	R,CHIP THICK 75-J,1/16W-1608REEL		C20007506M160S	1	
R5411-5413	nsp	R,CHIP THICK 75-J,1/16W-1608REEL		C20007506M160S	3	
R5439	nsp	R,CHIP THICK 82-J,1/16W-1608REEL		C20008206M160S	1	
R5440	nsp	R,CHIP THICK 75-J,1/16W-1608REEL		C20007506M160S	1	
R5441	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	1	
R5442	nsp	R,CHIP THICK 1.8K-J,1/16W-1608REEL		C20001826M160S	1	
R5443	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL		C20001036M160S	1	
R5444,5445	nsp	R,CHIP THICK 0-J,1/16W-1608REEL		C20000006M160S	2	
R5500	nsp	R,CHIP THICK 15K-J,1/16W-1608REEL		C20001536M160S	1	
R5501	nsp	R,CHIP THICK 0-J,1/16W-1608REEL		C20000006M160S	1	
R5502	nsp	R,CHIP THICK 1K-J,1/16W-1608REEL		C20001026M160S	1	
R5503	nsp	R,CHIP THICK 15K-J,1/16W-1608REEL		C20001536M160S	1	
R5504	nsp	R,CHIP THICK 82K-J,1/16W-1608REEL		C20008236M160S	1	
R5506	nsp	R,CHIP THICK 82K-J,1/16W-1608REEL		C20008236M160S	1	
R5507	nsp	R,CHIP THICK 11K-J,1/16W-1608REEL		C20001136M160S	1	
R5510	nsp	R,CHIP THICK 820-J,1/16W-1608REEL		C20008216M160S	1	
R5511,5512	nsp	R,CHIP THICK 1K-J,1/16W-1608REEL		C20001026M160S	2	
R5513	nsp	R,CHIP THICK 15K-J,1/16W-1608REEL		C20001536M160S	1	
R5515	nsp	R,CHIP THICK 15K-J,1/16W-1608REEL		C20001536M160S	1	
R5516	nsp	R,CHIP THICK 0-J,1/16W-1608REEL		C20000006M160S	1	
R5519	nsp	R,CHIP THICK 15K-J,1/16W-1608REEL		C20001536M160S	1	
R5521,5522	nsp	R,CHIP THICK 820-J,1/16W-1608REEL		C20008216M160S	2	
R5524	nsp	R,CHIP THICK 15K-J,1/16W-1608REEL		C20001536M160S	1	
R5525	nsp	R,CHIP THICK 820-J,1/16W-1608REEL		C20008216M160S	1	
R5527	nsp	R,CHIP THICK 820-J,1/16W-1608REEL		C20008216M160S	1	
R5528	nsp	R,CHIP THICK 11K-J,1/16W-1608REEL		C20001136M160S	1	
R5529	nsp	R,CHIP THICK 15K-J,1/16W-1608REEL		C20001536M160S	1	
R5530	nsp	R,CHIP THICK 820-J,1/16W-1608REEL		C20008216M160S	1	
R5531	nsp	R,CHIP THICK 11K-J,1/16W-1608REEL		C20001136M160S	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R5532	nsp	R,CHIP THICK 15K-J,1/16W-1608REEL		C20001536M160S	1	
R5533	nsp	R,CHIP THICK 820-J,1/16W-1608REEL		C20008216M160S	1	
R5534	nsp	R,CHIP THICK 30K-J,1/16W-1608REEL		C20003036M160S	1	
R5535	nsp	R,CHIP THICK 150K-J,1/16W-1608REEL		C20001546M160S	1	
R5536	nsp	R,CHIP THICK 15K-J,1/16W-1608REEL		C20001536M160S	1	
R5537	nsp	R,CHIP THICK 820-J,1/16W-1608REEL		C20008216M160S	1	
R5539,5540	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	2	
R5542	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	1	
R5543	nsp	R,CHIP THICK 16K-J,1/16W-1608REEL		C20001636M160S	1	
R5545	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	1	
R5546,5547	nsp	R,CHIP THICK 15K-J,1/16W-1608REEL		C20001536M160S	2	
R5548	nsp	R,CHIP THICK 820-J,1/16W-1608REEL		C20008216M160S	1	
R5549	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	1	
R5550	nsp	R,CHIP THICK 15K-J,1/16W-1608REEL		C20001536M160S	1	
R5551	nsp	R,CHIP THICK 820-J,1/16W-1608REEL		C20008216M160S	1	
R5552	nsp	R,CHIP THICK 16K-J,1/16W-1608REEL		C20001636M160S	1	
R5560	nsp	R,CHIP THICK 150K-J,1/16W-1608REEL		C20001546M160S	1	
R5564	nsp	R,CHIP THICK 820-J,1/16W-1608REEL		C20008216M160S	1	
R5572	nsp	R,CHIP THICK 820-J,1/16W-1608REEL		C20008216M160S	1	
R5573	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M160S	1	
R5575	nsp	R,CHIP THICK 16K-J,1/16W-1608REEL		C20001636M160S	1	
R5576-5578	nsp	R,CHIP THICK 11K-J,1/16W-1608REEL		C20001136M160S	3	
R5579	nsp	R,CHIP THICK 16K-J,1/16W-1608REEL		C20001636M160S	1	
R5581	nsp	R,CHIP THICK 30K-J,1/16W-1608REEL		C20003036M160S	1	
R5584	nsp	R,CHIP THICK 0-J,1/16W-1608REEL		C20000006M160S	1	
CAPACITORS GROUP						
C5200,5201	nsp	C,ELECT GE 85C 10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2	
C5202-5207	nsp	C,ELECT GE 85C 10UF-M/50V,5*11 KR3-050V100MC110-T/A5.0S KOSHIN		D040100087650S	6	*
C5210	nsp	C,ELECT GE 85C 100UF-M/16V,5*11-5RE,SHL SY		D040101083090S	1	
C5212	nsp	C,CERAMIC CHIP T.C COG330PF-J/50V-1608REEL		D010331167160S	1	
C5213	nsp	C,ELECT GE 85C 100UF-M/16V,5*11-5RE,SHL SY		D040101083090S	1	
C5215	nsp	C,CERAMIC CHIP T.C COG330PF-J/50V-1608REEL		D010331167160S	1	
C5219	nsp	C,CERAMIC CHIP T.C COG330PF-J/50V-1608REEL		D010331167160S	1	
C5221	nsp	C,CERAMIC CHIP T.C COG330PF-J/50V-1608REEL		D010331167160S	1	
C5228	nsp	C,CERAMIC CHIP T.C COG330PF-J/50V-1608REEL		D010331167160S	1	
C5233	nsp	C,CERAMIC CHIP T.C COG330PF-J/50V-1608REEL		D010331167160S	1	
C5237	nsp	C,ELECT GE 85C 10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C5240,5241	nsp	C,ELECT GE 85C 22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	2	
C5242	nsp	C,CERAMIC CHIP T.C COG330PF-J/50V-1608REEL		D010331167160S	1	
C5243	nsp	C,CERAMIC CHIP T.C COG100PF-J/50V-1608REEL		D010101167160S	1	
C5244	nsp	C,CERAMIC CHIP T.C X7R)0.01UF-K/50V-1608REEL		D010103777160S	1	
C5245	nsp	C,ELECT GE 85C 0.1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040R10087080S	1	
C5246,5247	nsp	C,ELECT GE 85C 22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	2	
C5248	nsp	C,ELECT GE 85C 10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C5249,5250	nsp	C,ELECT GE 85C 22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	2	
C5252	nsp	C,CERAMIC CHIP T.C COG330PF-J/50V-1608REEL		D010331167160S	1	
C5254	nsp	C,CERAMIC CHIP T.C X7R)0.01UF-K/50V-1608REEL		D010103777160S	1	
C5263	nsp	C,ELECT GE 85C 22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	1	
C5265	nsp	C,CERAMIC CHIP T.C COG100PF-J/50V-1608REEL		D010101167160S	1	
C5269	nsp	C,ELECT GE 85C 22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	1	
C5274	nsp	C,CERAMIC CHIP T.C X7R)0.01UF-K/50V-1608REEL		D010103777160S	1	
C5276	nsp	C,ELECT GE 85C 10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C5280	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1	
C5281,5282	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	2	
C5425-5428	nsp	C,ELECT GE 85C 10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	4	
C5429,5430	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	2	
C5431	nsp	C,ELECT GE 85C 10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1	
C5502	nsp	C,CERAMIC CHIP T.C CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	1	
C5505	nsp	C,CERAMIC CHIP T.C CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1	
C5511,5512	nsp	C,CERAMIC CHIP T.C COG100PF-J/50V-1608REEL		D010101167160S	2	
C5513	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	1	
C5514,5515	nsp	C,CERAMIC CHIP T.C CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	2	
C5516-5518	nsp	C,CERAMIC CHIP T.C CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	3	
C5519	nsp	C,CERAMIC CHIP T.C CH)240PF-J/50V-1608REEL GRM1882C1H241JA01D		D010241167165S	1	
C5520	nsp	C,CERAMIC CHIP T.C CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1	
C5521	nsp	C,CERAMIC CHIP T.C CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	1	
C5523	nsp	C,CERAMIC CHIP T.C CH)240PF-J/50V-1608REEL GRM1882C1H241JA01D		D010241167165S	1	
C5525	nsp	C,CERAMIC CHIP T.C CH)240PF-J/50V-1608REEL GRM1882C1H241JA01D		D010241167165S	1	
C5528	nsp	C,CERAMIC CHIP T.C CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1	
C5531	nsp	C,CERAMIC CHIP T.C CH)240PF-J/50V-1608REEL GRM1882C1H241JA01D		D010241167165S	1	
C5532	nsp	C,CERAMIC CHIP T.C CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	1	
C5533	nsp	C,CERAMIC CHIP T.C CH)240PF-J/50V-1608REEL GRM1882C1H241JA01D		D010241167165S	1	
C5534,5535	nsp	C,ELECT GE 85C 220UF-M/16V,8*11.5-5RE,SMS-SY		D040221083090S	2	
C5536	nsp	C,CERAMIC CHIP T.C CH)240PF-J/50V-1608REEL GRM1882C1H241JA01D		D010241167165S	1	
C5537	nsp	C,CERAMIC CHIP T.C CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	1	
OTHER PARTS GROUP						
BD5500	nsp	COIL,BEAD CB03YTYN121-1608REEL		D340160891210S	1	
CN4801	nsp	CN,WIRE 2MM 280MM/13P 20010HS-13=CKM2002HV-13 WH1007#26		L002281132620S	1	*
CN5200	nsp	CN,WAFER 1.25B-2-11Y 11P BtoB SOCKET(FEMALE) P=1.25MM		L109125421110S	1	
CN5201	nsp	CN,WIRE 2MM 50MM/13P 20010HS-13=CKM2002HV-13 WH1007#26		L002500132620S	1	
CN5203	nsp	CN,WIRE 2MM 50MM/4P 20010HS-04=CKM2002HV-04 WH1007#26		L002500040130S	1	*
CN5402	nsp	CN,WAFER 1.25B-2-21Y 21P BtoB SOCKET(FEMALE) P=1.25MM		L109125422110S	1	
CP5200	nsp	CN,WAFER 1.25B-2-15A 15P BtoB HEADER(MALE) P=1.25MM		L109125321510S	1	
CP5201	nsp	CN,WAFER 1.25B-2-13A 13P BtoB HEADER(MALE) P=1.25MM		L109125321310S	1	
CP5202	nsp	CN,WAFER 1.25B-2-11A 11P BtoB HEADER(MALE) P=1.25MM		L109125321110S	1	
CP5203	nsp	CN,WAFER 1.25B-2-23A 23P BtoB HEADER(MALE) P=1.25MM		L109125322310S	1	
JK5200_6	963643010330S	TER,RCA 6PIN RCA-615A-07(W/R/W/R/W/R)		G603615A0700YS	1	
JK5201_2	90M-YT004540R	TER,RCA 2PIN RCA-207AE-07(OR,OR)		G601207AE070YS	1	
JK5203_4	963643103200S	TER,RCA 4PIN RC045-F04R1BY-D(RD,WH/BK,BK)		G602F04R1BYDYS	1	*
JK5401_4	963643003460S	TER,RCA 4PIN RCA-405BE-31(YL,YL,YL,YL)-YUQIU		G602405BE310YS	1	
PACK5500	963183100620S	TUNER,FM/AM KST-MW004MV1-S78SA-1 4GANG+MW+50US NA	U	E903004102780S	1	
PACK5500	963183100610S	TUNER,FM/AM KST-MW104MV1-S78GA-1 4GANG+MW+50US RDS	N	E903104102780S	1	
PACK5500	963183100630S	TUNER,FM/AM KST-MW004MV1-S78A-1 4GANG+MW+50US NA IFT VENA	K	E903004100781S	1	

HDMI PCB ASS'Y

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

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

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

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

B : Black model SG : Silver Gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
SEMICONDUCTORS GROUP						
D1000	963204500220D	D,SCHOTTKY CHIP LRB521S-30T1G SOD523 SCHOTTKY BARRIER DIODE		K125521305230S	1	
D1001,1002	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	2	
D1004	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1	
D1005	963201500170D	D,SWITCHING CHIP LBAS16HT1G FAST SWITCHING SOD-323	U	K005041480230S	1	
FET1001	963219004200S	SEMI,FET CHIP FDC608PZ P-CH 2.5V MOSFET SOT6		J543608000010S	1	
FET1008	963219004200S	SEMI,FET CHIP FDC608PZ P-CH 2.5V MOSFET SOT6		J543608000010S	1	
FET1013	963219004200S	SEMI,FET CHIP FDC608PZ P-CH 2.5V MOSFET SOT6		J543608000010S	1	
FET1015	963219004200S	SEMI,FET CHIP FDC608PZ P-CH 2.5V MOSFET SOT6		J543608000010S	1	
FET1019,1020	963219004200S	SEMI,FET CHIP FDC608PZ P-CH 2.5V MOSFET SOT6		J543608000010S	2	
FET1023	963219004200S	SEMI,FET CHIP FDC608PZ P-CH 2.5V MOSFET SOT6		J543608000010S	1	
Q1000	943216500050S	SEMI,CHIP TR/NPN 2SC RT1N441C 0.2W/SC-59 ISAHAYA		J522104411210S	1	
Q1002	943214500020S	SEMI,CHIP TR/NPN 2SC 2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	1	
Q1004	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q1007	943216500050S	SEMI,CHIP TR/NPN 2SC RT1N441C 0.2W/SC-59 ISAHAYA		J522104411210S	1	
Q1009	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q1011,1012	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	2	
Q1014	943216500050S	SEMI,CHIP TR/NPN 2SC RT1N441C 0.2W/SC-59 ISAHAYA		J522104411210S	1	
Q1017	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q1018	943216500050S	SEMI,CHIP TR/NPN 2SC RT1N441C 0.2W/SC-59 ISAHAYA		J522104411210S	1	
Q1021,1022	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	2	
Q1025	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q1026,1027	943214500020S	SEMI,CHIP TR/NPN 2SC 2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	2	
Q1029-1032	943214500020S	SEMI,CHIP TR/NPN 2SC 2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	4	
Q1033,1034	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	2	
Q1035,1036	943214500020S	SEMI,CHIP TR/NPN 2SC 2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	2	
Q1037,1038	963212500030S	SEMI,CHIP TR/PNP 2SA ISA1530AC1 0.2W/SC-59 ISAHAYA		J520015301210S	2	
Q1039	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q1042	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q1043	943216500050S	SEMI,CHIP TR/NPN 2SC RT1N441C 0.2W/SC-59 ISAHAYA		J522104411210S	1	
Q1044	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q1045	943216500050S	SEMI,CHIP TR/NPN 2SC RT1N441C 0.2W/SC-59 ISAHAYA		J522104411210S	1	
Q1046	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q1047,1048	943216500050S	SEMI,CHIP TR/NPN 2SC RT1N441C 0.2W/SC-59 ISAHAYA		J522104411210S	2	
Q1049-1051	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	3	
Q1053	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q1054,1055	943216500050S	SEMI,CHIP TR/NPN 2SC RT1N441C 0.2W/SC-59 ISAHAYA		J522104411210S	2	
Q1056	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
Q1057	963219002180S	SEMI,CHIP TR/NPN 2SD 2SD2114KT146W SMT3 SOT23-REEL		J5232114K0010S	1	
Q1058,1059	943214500020S	SEMI,CHIP TR/NPN 2SC 2SC3052 0.15W/SC-59 REEL ISAHAYA		J522305200050S	2	
Q1060	943215500020S	SEMI,CHIP TR/PNP 2SA RT1P141C 0.2W/SC-59 ISAHAYA	U	J520101411210S	1	
Q1061	943216500020S	SEMI,CHIP TR/NPN 2SC RT1N141C 0.2W/SC-59 ISAHAYA		J522101411210S	1	
TR1003	963211500160D	SEMI,CHIP TR/PNP 2SB PBSS5140U SOT323 40V LOW VCEsat PNP TR		J521051401010S	1	
TR1006	963211500160D	SEMI,CHIP TR/PNP 2SB PBSS5140U SOT323 40V LOW VCEsat PNP TR		J521051401010S	1	
TR1010	963211500160D	SEMI,CHIP TR/PNP 2SB PBSS5140U SOT323 40V LOW VCEsat PNP TR		J521051401010S	1	
TR1020	963211500160D	SEMI,CHIP TR/PNP 2SB PBSS5140U SOT323 40V LOW VCEsat PNP TR		J521051401010S	1	
TR1024	963211500160D	SEMI,CHIP TR/PNP 2SB PBSS5140U SOT323 40V LOW VCEsat PNP TR		J521051401010S	1	
U1000	963231102200S	IC,LINEAR POWER MP2143DJ 3A STEP DOWN SWITCHER T-SOT23-8		J122214300010S	1	
U1001	943239010400S	IC,LINEAR-REGULATOR NJM2845DL1-33 3.3V TO-252-3 LOW-DROP VOL REGULATOR		J126284533010S	1	
U1004-1008	963231102200S	IC,LINEAR POWER MP2143DJ 3A STEP DOWN SWITCHER T-SOT23-8		J122214300010S	5	
U1009	00D2623444902	IC,LOGIC TC74VHC08FT CMOS 2-INPUT AND GATE TSSOP14 P-0.65		J040740800280S	1	
U1010	234810014504S	IC,LOGIC MC14094BDTR2G SHIFT REGISTER TSSOP16P		J040140940020S	1	
U1012	963239101320S	IC,MEMORY-EEPROM R1EX24128BSAS01 128Kbit SERIAL SOP8 RENESAS		J000241282010S	1	
U1013	963243103090S	IC, R5F56108VNFP (MAIN CPU) (U)	U	8952150600010	1	*
U1013	963243103240S	IC, R5F56108VNFP (MAIN CPU) (N)	N	8952150600020	1	*
U1013	963243103250S	IC, R5F56108VNFP (MAIN CPU) (K)	K	8952150600030	1	*
U1013	-	IC,CPU MICRO PROCESS R5F56108VNFP 32BIT MICROCOMPUTER P-LQFP144 RENESAS		J020610005510S		
U1014	963262012150M	MODULE,REMOCON R94EV1A 36KHZ STRAIGHT LEAD P=2.54MM	U	E940941003610S	1	
U1015	963239002150S	IC,LOGIC SN74LVC244APWR TSSOP 20P/OCTAL BUFFER/DRIVER		J040742440230S	1	
U1016	23681014050AS	IC,LOGIC-INTERFACE PCM9211 TRANSCEIVER LQFP48		J046921100010S	1	
U1017	963239101750S	IC, 5M80ZT100C5N NR1506 (AUDIO PLD)		8952150600040	1	*
U1017	-	IC,PAL/PLD 5M80ZT100C5N TQFP100		J003058010050S	1	
U1018	00D2623077900	IC,LOGIC TC74VHC04FT HEX INVERTER TSSOP14		J040740405580S	1	
U1019	236810082503S	IC,LOGIC-D/A CONVER PCM1690 HTSSOP48		J042169000010S	1	
U1020	963246101160S	IC,MEMORY-RAM W9864G6KH-6 1M*4BANKS*16BIT(64MB) TSOP54		J001986466020S	1	*
U1021	943245100310S	IC,ANALOG ADSP-21487KSWZ-2B SHARC PROCESSOR DSP LQFP176		J080214875550S	1	3
U1022	236810064604S	IC,LOGIC AD8195 HDMI/DVI BUFFER EQ LFCSP40		J040819505510S	1	
U1023	963248103300S	IC, MX25L1606EM2I-12G 16M (DSP)		8952150600050	1	*
U1023	-	IC,MEMORY FLASH MX25L1606EM2I-12G 16M CMOS SERIAL FLASH SOP8		J005251601210S	1	
U1025	963239101350S	IC,LOGIC SN74CBT3251PWR TSSOP16 FET MUX/DEMUX		J040743251030S	1	
U1026	963246101170S	IC,LOGIC MN864788A HDMI HQFP144P		J040864788110S	1	*
U1027	23681050460AS	IC,LOGIC MN864788 HDMI HQFP144P		J040864788010S	1	
U1029	963248103310S	IC, MX25L3206EM2I-12G 32M (GUI)(U)	U	8952150600060	1	*
U1029	963248103330S	IC, MX25L3206EM2I-12G 32M (GUI)(K)	K	8952150600070	1	*
U1029	-	IC, MX25L3206EM2I-12G 32M SERIAL FLASH SOP8		J005253201210S	1	
U1029	963248103320S	IC, MX25L6406EM2I-12G 64M (GUI)(N)	N	8952150600080	1	*
U1029	-	IC, MX25L6406EM2I-12G 64M SERIAL FLASH SOP8		J005256401210S	1	
U1030	943236012460S	IC,LOGIC ADV7623 HDMI 1.4 TRANSCEIVER LQFP144		J040762305510S	1	
U1031	23671011050AS	IC,LOGIC-DECODER MFI337S3959 COPROCESSOR(IPOD) DENON SAGUB		J044337395910S	1	
U1032	963239101360S	IC,LOGIC-INTERFACE BD82065FVJ CURRENT LIMIT 2.4A TSSOP-B&J		J046820650010S	1	
U1033,1034	nsp	PIN JUMPER PIN HEADER 1.27MM 64P S1210-64SVB-S01-1R		L424012102640S	2	
U1035	24681009260AS	IC,MEMORY FLASH MX25L25635FMI-10G 256M SERIAL FLASH SOP16		J005252561010S	1	
U1036	963233102120S	IC,LOGIC SN74LVC827APWR TSSOP24 10BIT BUFFER/DRIVER		J040748270010S	1	
RESISTOR GROUP						
R1004	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	1	
R1005	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1006	nsp	R,CHIP THICK 100K-J,1/16W-1005REEL		C20001046M101S	1	
R1007	nsp	R,CHIP THICK 200K-F,1/16W-1608REEL		C20002044M160S	1	
R1008	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1010	nsp	R,CHIP THICK 220K-F,1/16W-1608REEL		C20002244M160S	1	
R1011	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1012	nsp	R,CHIP THICK 10K-F,1/16W-1608REEL		C20001034M160S	1	
R1013,1014	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	2	
R1015	nsp	R,CHIP THICK 100K-J,1/16W-1005REEL		C20001046M101S	1	
R1016	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1019	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1021	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1022	nsp	R,CHIP THICK 3.3K-J,1/16W-1005REEL		C20003326M101S	1	
R1024	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1032	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1034,1035	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	2	
R1036	nsp	R,CHIP THICK 3.3K-J,1/16W-1005REEL		C20003326M101S	1	
R1037	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	1	
R1038	nsp	R,CHIP THICK 200K-D,1/10W-1608REEL		C200020410161S	1	
R1039	nsp	R,CHIP THICK 100K-J,1/16W-1005REEL		C20001046M101S	1	
R1041	nsp	R,CHIP THICK 44.2K-D,1/10W-1608REEL		C200442210160S	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R1042	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	1	
R1043	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1044	nsp	R,CHIP THICK 3.3K-J,1/16W-1005REEL		C20003326M101S	1	
R1045	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1046	nsp	R,CHIP THICK 27K-J,1/16W-1005REEL		C20002736M101S	1	
R1047	nsp	R,CHIP THICK 0-J,1/10W-1608REEL		C20000060161S	1	
R1048	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	1	
R1049	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	1	
R1050	nsp	R,CHIP THICK 200K-F,1/16W-1608REEL		C20002044M160S	1	
R1051	nsp	R,CHIP THICK 100K-J,1/16W-1005REEL		C20001046M101S	1	
R1053	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1055	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1056	nsp	R,CHIP THICK 240K-F,1/10W-1608REEL		C200024440160S	1	*
R1057	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1058	nsp	R,CHIP THICK 0-J,1/10W-1608REEL		C20000060161S	1	
R1059	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	1	
R1060,1061	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	2	
R1062	nsp	R,CHIP THICK 200K-D,1/10W-1608REEL		C200020410161S	1	
R1063	nsp	R,CHIP THICK 100K-J,1/16W-1005REEL		C20001046M101S	1	
R1064	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1066	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1067	nsp	R,CHIP THICK 91K-D,1/10W-1608REEL		C200091310161S	1	*
R1068	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1069	nsp	R,CHIP THICK 7.5K-D,1/16W-1608REEL		C20007521M160S	1	*
R1070	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1071	nsp	R,CHIP THICK 3.3K-J,1/16W-1005REEL		C20003326M101S	1	
R1073	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	1	
R1074	nsp	R,CHIP THICK 200K-D,1/10W-1608REEL		C200020410161S	1	
R1075	nsp	R,CHIP THICK 100K-J,1/16W-1005REEL		C20001046M101S	1	
R1076	nsp	R,CHIP THICK 27K-J,1/16W-1005REEL		C20002736M101S	1	
R1079	nsp	R,CHIP THICK 180K-D,1/10W-1608REEL		C200018410160S	1	
R1080	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1081	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1082	nsp	R,CHIP THICK 3.3K-J,1/16W-1005REEL		C20003326M101S	1	
R1083	nsp	R,CHIP THICK 4.7K-D,1/10W-1608REEL		C200047210161S	1	
R1084	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	1	
R1085	nsp	R,CHIP THICK 200K-D,1/10W-1608REEL		C200020410161S	1	
R1086	nsp	R,CHIP THICK 100K-J,1/16W-1005REEL		C20001046M101S	1	
R1088	nsp	R,CHIP THICK 62K-D,1/10W-1608REEL		C200062310161S	1	
R1089	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1090	nsp	R,CHIP THICK 1.2K-D,1/16W-1608REEL		C20001221M161S	1	
R1091	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1092,1093	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	2	
R1094	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1097	nsp	R,CHIP THICK 1.2K-J,1/16W-1005REEL		C20001226M101S	1	
R1098	nsp	R,CHIP THICK 100K-J,1/16W-1005REEL		C20001046M101S	1	
R1099,1100	nsp	R,CHIP THICK 22K-J,1/16W-1005REEL		C20002236M101S	2	
R1102	nsp	R,CHIP THICK 22K-J,1/16W-1005REEL		C20002236M101S	1	
R1104	nsp	R,CHIP THICK 22K-J,1/16W-1005REEL		C20002236M101S	1	
R1106	nsp	R,CHIP THICK 22K-J,1/16W-1005REEL		C20002236M101S	1	
R1108	nsp	R,CHIP THICK 22K-J,1/16W-1005REEL		C20002236M101S	1	
R1109	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1110	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1111	nsp	R,CHIP THICK 2.2M-J,1/16W-1005REEL		C20002256M101S	1	
R1112	nsp	R,CHIP THICK 100K-J,1/16W-1005REEL		C20001046M101S	1	
R1113	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1114	nsp	R,CHIP THICK 100K-J,1/16W-1005REEL		C20001046M101S	1	
R1115	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1118	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1119	nsp	R,CHIP THICK 22K-J,1/16W-1608REEL		C20002236M160S	1	
R1120	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1121	nsp	R,CHIP THICK 120K-J,1/16W-1005REEL		C20001246M101S	1	
R1122	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1123	nsp	R,CHIP THICK 120K-J,1/16W-1005REEL		C20001246M101S	1	
R1124	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1125	nsp	R,CHIP THICK 22K-J,1/16W-1005REEL		C20002236M101S	1	
R1126	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1127,1128	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	2	
R1130	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1131	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1132	nsp	R,CHIP THICK 27K-J,1/16W-1005REEL		C20002736M101S	1	
R1133	nsp	R,CHIP THICK 220K-J,1/16W-1005REEL		C20002246M101S	1	
R1134	nsp	R,CHIP THICK 3.3K-J,1/16W-1005REEL		C20003326M101S	1	
R1135	nsp	R,CHIP THICK 100K-J,1/16W-1005REEL		C20001046M101S	1	
R1136	nsp	R,CHIP THICK 12K-J,1/16W-1005REEL		C20001236M101S	1	
R1137	nsp	R,CHIP THICK 18K-J,1/16W-1005REEL		C20001836M101S	1	
R1145,1146	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	2	
R1147,1148	nsp	R,CHIP THICK 3.3K-J,1/16W-1005REEL		C20003326M101S	2	
R1149	nsp	R,CHIP THICK 3.9K-J,1/16W-1005REEL		C20003926M101S	1	*
R1151	nsp	R,CHIP THICK 3.9K-J,1/16W-1005REEL		C20003926M101S	1	*
R1153,1154	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	2	
R1156-1161	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	6	
R1165,1166	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	2	
R1167,1168	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	2	
R1170	nsp	R,CHIP THICK 75-J,1/16W-1608REEL		C20007506M160S	1	
R1171	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1175-1191	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	17	
R1195	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1196	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000060161S	1	
R1197-1201	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	5	
R1202	nsp	R,CHIP THICK 0-J,1/10W-1608REEL	U	C20000060161S	1	
R1202	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL	K	C20001036M160S	1	
R1203-1205	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	3	
R1206	nsp	R,CHIP THICK 0-J,1/10W-1608REEL	N	C20000060161S	1	
R1206	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL	K	C20001036M160S	1	
R1207	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1209-1214	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	6	
R1215	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1216	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1221	nsp	R,CHIP THICK 100-J,1/16W-1005REEL	U	C20001016M101S	1	
R1224	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL	U	C20001026M101S	1	
R1225-1228	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	4	
R1229	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1230	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1232	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1233	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL	U	C20001026M101S	1	
R1234	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1235	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1236	nsp	R,CHIP THICK 100-J,1/16W-1005REEL	U	C20001016M101S	1	
R1237	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1238	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	1	
R1239	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1240-1243	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	4	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R1244-1246	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	3	
R1247	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1248	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1249	nsp	R,CHIP THICK 3.3K-J,1/16W-1005REEL		C20003326M101S	1	
R1251	nsp	R,CHIP THICK 820-J,1/16W-1005REEL		C20008216M101S	1	
R1252	nsp	R,CHIP THICK 680-J,1/16W-1005REEL		C20006816M101S	1	
R1253	nsp	R,NETWORK A-TYPE 33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1	
R1254	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	1	
R1255	nsp	R,NETWORK A-TYPE 10K-J*4 1/16W SMD(1005) WA04		C180103042100S	1	
R1256	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	1	
R1257	nsp	R,NETWORK A-TYPE 33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1	
R1260,1261	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	2	
R1262	nsp	R,NETWORK A-TYPE 33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1	
R1263,1264	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	2	
R1266	nsp	R,CHIP THICK 0-J,1/10W-1608REEL		C20000060161S	1	
R1267-1270	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	4	
R1272	nsp	R,NETWORK A-TYPE 33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1	
R1273-1278	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	6	
R1279	nsp	R,NETWORK A-TYPE 33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1	
R1280,1281	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	2	
R1283-1288	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	6	
R1289	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	1	
R1290,1291	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	2	
R1292	nsp	R,CHIP THICK 470-J,1/16W-1005REEL		C20004716M101S	1	
R1295-1297	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	3	
R1298	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1299,1300	nsp	R,CHIP THICK 150-J,1/16W-1005REEL		C20001516M101S	2	
R1301	nsp	R,CHIP THICK 330K-J,1/16W-1005REEL		C20003346M101S	1	
R1302	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1304	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1307-1312	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M161S	6	
R1313	nsp	R,NETWORK A-TYPE 33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1	
R1314	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1315	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	1	
R1316	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1317	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M161S	1	
R1318	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1319	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M161S	1	
R1320	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	1	
R1322	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1324	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M161S	1	
R1327	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M161S	1	
R1328	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1329,1330	nsp	R,CHIP THICK 100-J,1/16W-1608REEL		C20001016M161S	2	
R1332,1333	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	2	
R1334	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1336-1339	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	4	
R1340	nsp	R,CHIP THICK 100K-J,1/16W-1005REEL		C20001046M101S	1	
R1342	nsp	R,NETWORK A-TYPE 33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1	
R1343	nsp	R,CHIP THICK 100K-J,1/16W-1005REEL		C20001046M101S	1	
R1344	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1346	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1347	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1348,1349	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	2	
R1350	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1351	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1352	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1354	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1355	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	1	
R1356	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1357	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	1	
R1358	nsp	R,NETWORK A-TYPE 10-J 1/16W SMD(1005)*4 WA04X		C180100042100S	1	
R1360	nsp	R,NETWORK A-TYPE 10-J 1/16W SMD(1005)*4 WA04X		C180100042100S	1	
R1361	nsp	R,CHIP THICK 47-J,1/16W-1005REEL		C20004706M101S	1	
R1362	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1364	nsp	R,NETWORK A-TYPE 10-J 1/16W SMD(1005)*4 WA04X		C180100042100S	1	
R1366	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1367	nsp	R,NETWORK A-TYPE 10-J 1/16W SMD(1005)*4 WA04X		C180100042100S	1	
R1368,1369	nsp	R,NETWORK A-TYPE 10K-J*4 1/16W SMD(1005) WA04		C180103042100S	2	
R1370	nsp	R,NETWORK A-TYPE 33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1	
R1371,1372	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	2	
R1373	nsp	R,NETWORK A-TYPE 10K-J*4 1/16W SMD(1005) WA04		C180103042100S	1	
R1374	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1376	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	1	
R1377	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1379	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	1	
R1380,1381	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	2	
R1382-1384	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	3	
R1385	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1387	nsp	R,NETWORK A-TYPE 10K-J*4 1/16W SMD(1005) WA04		C180103042100S	1	
R1388	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1389	nsp	R,CHIP THICK 1M-J,1/16W-1005REEL		C20001056M101S	1	
R1390	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	1	
R1391-1394	nsp	R,NETWORK A-TYPE 33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	4	
R1395	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1396	nsp	R,CHIP THICK 1.2K-J,1/16W-1005REEL		C20001226M101S	1	
R1397	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1400	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	1	
R1401	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1402	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1403	nsp	R,CHIP THICK 47-J,1/16W-1005REEL		C20004706M101S	1	
R1404	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	1	
R1405	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1406,1407	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	2	
R1408	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	1	
R1409	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1410,1411	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	2	
R1412	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	1	
R1413	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1414,1415	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	2	
R1416	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	1	
R1417	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1418	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	1	
R1419	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1420-1422	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	3	
R1423	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1424	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	1	
R1425	nsp	R,NETWORK A-TYPE 0-J 1/16W SMD(1005) WA04		C180000040100S	1	*
R1426,1427	nsp	R,CHIP THICK 1.8K-J,1/16W-1005REEL		C20001826M101S	2	
R1428	nsp	R,NETWORK A-TYPE 0-J 1/16W SMD(1005) WA04		C180000040100S	1	*
R1430	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1431	nsp	R,CHIP THICK 0-J,1/10W-1608REEL		C20000060161S	1	
R1432	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R1435	nsp	R,CHIP THICK 0-J,1/10W-1608REEL		C20000060161S	1	
R1436	nsp	R,CHIP THICK 1M-J,1/16W-1005REEL		C20001056M101S	1	
R1437	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1438,1439	nsp	R,CHIP THICK 47-J,1/16W-1005REEL		C20004706M101S	2	
R1440	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1441	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1442	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	1	
R1443	nsp	R,CHIP THICK 75-J,1/16W-1608REEL		C20007506M160S	1	
R1444	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	1	
R1445	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1446,1447	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	2	
R1448	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1449	nsp	R,CHIP THICK 75-J,1/16W-1608REEL		C20007506M160S	1	
R1450	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1451	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	1	
R1452	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1455	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1456	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1460-1462	nsp	R,CHIP THICK 0-J,1/10W-2012REEL		C20000060201S	3	
R1464	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1466	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	1	
R1468	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	1	
R1469	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	1	
R1478	nsp	R,CHIP THICK 2.2K-J,1/16W-1005REEL		C20002226M101S	1	
R1479	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	1	
R1480	nsp	R,CHIP THICK 8.2K-J,1/16W-1005REEL		C20008226M101S	1	
R1481	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1482,1483	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	2	
R1484	nsp	R,CHIP THICK 47-J,1/16W-1005REEL		C20004706M101S	1	
R1485	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1486	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	1	
R1487	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	1	
R1488	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1489,1490	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	2	
R1491	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	1	
R1492	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	1	
R1493	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1494-1496	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	3	
R1497	nsp	R,NETWORK A-TYPE 0-J*2 1/16W SMD(1005) WA04Y		C18000022100S	1	
R1498,1499	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	2	
R1500,1501	nsp	R,NETWORK A-TYPE 0-J*2 1/16W SMD(1005) WA04Y		C18000022100S	2	
R1503-1510	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	8	
R1511,1512	nsp	R,CHIP THICK 1.8K-J,1/16W-1005REEL		C20001826M101S	2	
R1513,1514	nsp	R,CHIP THICK 51-D,1/16W-1608REEL		C20005101M160S	2	
R1515	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	1	
R1516	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1517,1518	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	2	
R1519	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	1	
R1520	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1521,1522	nsp	R,CHIP THICK 5.1-J,1/16W-1005REEL		C2005R106M100S	2	
R1523	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1524,1525	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	2	
R1526	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	1	
R1527	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	1	
R1529	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	1	
R1530	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	1	
R1531	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1532	nsp	R,CHIP THICK 47-J,1/16W-1005REEL		C20004706M101S	1	
R1533	nsp	R,CHIP THICK 10-J,1/16W-1005REEL		C20001006M101S	1	
R1534	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1535	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1536	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1537,1538	nsp	R,CHIP THICK 47-J,1/16W-1005REEL		C20004706M101S	2	
R1539,1540	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	2	
R1541	nsp	R,CHIP THICK 1M-J,1/16W-1005REEL		C20001056M101S	1	
R1542,1543	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	2	
R1546	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1547	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1550	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	1	
R1552	nsp	R,CHIP THICK 1K-J,1/16W-1005REEL		C20001026M101S	1	
R1553	nsp	R,CHIP THICK 2.2K-J,1/16W-1005REEL		C20002226M101S	1	
R1558	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1561	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	1	
R1562	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1563	nsp	R,CHIP THICK 47-J,1/16W-1005REEL		C20004706M101S	1	
R1566,1567	nsp	R,CHIP THICK 47-J,1/16W-1005REEL		C20004706M101S	2	
R1568	nsp	R,CHIP THICK 1K-D,1/16W-1608REEL		C20001021M160S	1	
R1569	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	1	
R1570-1572	nsp	R,CHIP THICK 47-J,1/16W-1005REEL		C20004706M101S	3	
R1575	nsp	R,CHIP THICK 1M-J,1/16W-1005REEL		C20001056M101S	1	
R1576	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1577	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1579-1581	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	3	
R1582,1583	nsp	R,CHIP THICK 1.8K-J,1/16W-1005REEL		C20001826M101S	2	
R1584-1590	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	7	
R1592	nsp	R,CHIP THICK 1.6K-D,1/16W-1608REEL		C20001621M160S	1	
R1593	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1594	nsp	R,CHIP THICK 2K-D,1/16W-1608REEL		C20002021M160S	1	
R1595-1597	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	3	
R1598	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1601	nsp	R,CHIP THICK 2.2K-J,1/16W-1005REEL		C20002226M101S	1	
R1602	nsp	R,CHIP THICK 47K-J,1/16W-1005REEL		C20004736M101S	1	
R1604	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1606	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1610	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1611	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1612	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1613	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1615	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1616	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1617	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1619	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1620,1621	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	2	
R1622	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1623	nsp	R,CHIP THICK 1K-D,1/16W-1608REEL		C20001021M160S	1	
R1627	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1631	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	1	
R1632	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1638	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	1	
R1641-1644	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C2000006M101S	4	
R1646	nsp	R,NETWORK A-TYPE 100-J*4 1/16W SMD(1005) WA04		C180101040500S	1	
R1647-1649	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	3	
R1650	nsp	R,NETWORK A-TYPE 100-J*4 1/16W SMD(1005) WA04		C180101040500S	1	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R1652,1653	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	2	
R1654	nsp	R,CHIP THICK 47-J,1/16W-1005REEL		C20004706M101S	1	
R1655	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	1	
R1657	nsp	R,NETWORK A-TYPE 0-J*2 1/16W SMD(1005) WA04Y		C180000022100S	1	
R1658	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1659	nsp	R,NETWORK A-TYPE 33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1	
R1660,1661	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	2	
R1663-1665	nsp	R,NETWORK A-TYPE 0-J*2 1/16W SMD(1005) WA04Y		C180000022100S	3	
R1669	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1671	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1672	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1673-1675	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	3	
R1676,1677	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	2	
R1678	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1680,1681	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	2	
R1683	nsp	R,CHIP THICK 10K-J,1/16W-1005REEL		C20001036M111S	1	
R1686	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	1	
R1687	nsp	R,CHIP THICK 10-F,1/16W-1005REEL		C20001004M101S	1	
R1689	nsp	R,CHIP THICK 0-J,1/16W-1005REEL		C20000006M101S	1	
R1693	nsp	R,CHIP THICK 33-J,1/16W-1005REEL		C20003306M101S	1	
R1697	nsp	R,CHIP THICK 100-J,1/16W-1005REEL		C20001016M101S	1	
R1700,1701	nsp	R,CHIP THICK 4.7K-J,1/16W-1005REEL		C20004726M101S	2	
CAPACITORS GROUP						
C1005-1009	nsp	C,CERAMIC CHIP HIK COG)100PF-J/50V-1005REEL		D011101167101S	5	
C1017-1020	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1005REEL		D011102177101S	4	
C1021	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1022	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1023	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1024	00D9630325402	C,ELECT CHIP(GE) 470UF-MVG/6.3V,8.3*9.0*10 REEL (Z8158) SY		D050471081200S	1	
C1025	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1026,1027	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	2	
C1028	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1029	00D9630325402	C,ELECT CHIP(GE) 470UF-MVG/6.3V,8.3*9.0*10 REEL (Z8158) SY		D050471081200S	1	
C1031	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1032	nsp	C,ELECT CHIP(GE) 47UF-MVG/6.3V,4*3*5.1*5.3 REEL (Z8155) SY		D050470081460S	1	
C1033	nsp	C,ELECT CHIP(GE) 10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	1	
C1034,1035	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	2	
C1036	nsp	C,CERAMIC CHIP HIK X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	
C1039	nsp	C,CERAMIC CHIP HIK X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	
C1041	nsp	C,CERAMIC CHIP HIK X7R)1UF-K/10V-1608REEL		D011105772161S	1	
C1042	nsp	C,CERAMIC CHIP HIK X5R)2.2UF-K/16V-1608REEL GRM188R61C225KE15D		D011225573160S	1	
C1043	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1044	nsp	C,CERAMIC CHIP HIK X7R)1UF-K/10V-1608REEL		D011105772161S	1	
C1046,1047	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	2	
C1058,1059	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	2	
C1061	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1062	nsp	C,CERAMIC CHIP HIK X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	
C1065	nsp	C,CERAMIC CHIP HIK X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	
C1067	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1068	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1070,1071	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	2	
C1072	nsp	C,CERAMIC CHIP HIK X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	
C1075	nsp	C,CERAMIC CHIP HIK X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	
C1077	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1079,1080	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	2	
C1081	nsp	C,CERAMIC CHIP HIK X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	
C1084	nsp	C,CERAMIC CHIP HIK X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	
C1086	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1088	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1090	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1091	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1092	nsp	C,CERAMIC CHIP HIK X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	
C1095	nsp	C,CERAMIC CHIP HIK X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	
C1098-1100	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1005REEL		D011102177101S	3	
C1124	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1149	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1150	nsp	C,CERAMIC CHIP HIK X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	
C1153	nsp	C,CERAMIC CHIP HIK X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1	
C1200,1201	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	2	
C1213-1216	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	4	
C1217	nsp	C,CERAMIC CHIP HIK X7R)220PF-K/50V-1005REEL		D011221177101S	1	
C1218,1219	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	2	
C1221-1226	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	6	
C1227-1233	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	7	
C1235-1239	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	5	
C1240	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1	
C1241,1242	nsp	C,CERAMIC CHIP HIK COG)10PF-D/50V-1005REEL		D011100117101S	2	
C1244	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL	U	D011475571160S	1	
C1246	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL	U	D011475571160S	1	
C1248	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1005REEL		D011102177101S	1	
C1249	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1250,1251	00D9630338606	C,ELECT CHIP(GE) 10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	2	
C1252,1253	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	2	
C1254	00D9630325305	C,ELECT CHIP(GE) 47UF-MVG/6.3V,4*3*5.1*5.3 REEL (Z8155) SY		D050470081460S	1	
C1255	nsp	C,CERAMIC CHIP T.C COG)12PF-G/50V-1005REEL GRM1555C1H120GA01D		D010120157100S	1	
C1256	nsp	C,CERAMIC CHIP T.C COG)15PF-G/50V-1005REEL GRM1555C1H150GA01D		D010150157100S	1	
C1257	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1005REEL		D011102177101S	1	
C1258	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1259	nsp	C,CERAMIC CHIP T.C COG)0.068UF-J/50V-3216REEL GRM31C5C1H683JA01L		D010683167300S	1	
C1260	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1261	nsp	C,CERAMIC CHIP T.C COG)4700PF-J/50V-2012REEL GRM2165C1H472JA01D		D010472167200S	1	
C1262,1263	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	2	
C1264,1265	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/25V-1608REEL		D011104774161S	2	
C1266,1267	00D9630338606	C,ELECT CHIP(GE) 10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	2	
C1268	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1270-1277	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	8	
C1278	00D9630338606	C,ELECT CHIP(GE) 10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	1	
C1279	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1	
C1280	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1281	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1283-1285	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	3	
C1286-1310	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1005REEL		D011102177101S	25	
C1312	nsp	C,CERAMIC CHIP HIK X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1	
C1314	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1315	00D9630338606	C,ELECT CHIP(GE) 10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	1	
C1316	nsp	C,CERAMIC CHIP HIK X7R)1UF-K/10V-1608REEL		D011105772161S	1	
C1318	nsp	C,CERAMIC CHIP HIK X7R)1UF-K/10V-1608REEL		D011105772161S	1	
C1320	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1322	nsp	C,CERAMIC CHIP HIK X7R)1UF-K/10V-1608REEL		D011105772161S	1	
C1324	13405013040AS	C,ELECT GE 85C 220UF-M/25V,8*11.5 KR3-025V221MF115-T/A5.0S KOSHIN		D040221084550S	1	
C1326	963134000450S	C,ELECT CHIP(GE) 100UF-MVG/16V,6.6*7.2*5.7 REEL (Z8157) SY		D050101083660S	1	
C1327	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1005REEL		D011102177101S	1	
C1328,1329	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	2	

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
C1537-1544	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	8	
C1545-1547	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	3	
C1548,1549	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	2	
C1552	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1554	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1555	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1	
C1556	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1557	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1	
C1560,1561	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2	
C1564-1575	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	12	
C1576	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1	
C1577	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1578	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1	
C1580	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1581	nsp	C,CERAMIC CHIP HIK X7R)1UF-K/10V-1608REEL		D011105772161S	1	
C1582,1583	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2	
C1585	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1586	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1	
C1587	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1588	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1	
C1589	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1592-1599	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	8	
C1600	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1	
C1606	nsp	C,CERAMIC CHIP HIK COG)10PF-D/50V-1005REEL		D011100117101S	1	
C1608-1611	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	4	
C1612	nsp	C,CERAMIC CHIP HIK X7R)1UF-K/10V-1608REEL		D011105772161S	1	
C1613	nsp	C,CERAMIC CHIP HIK COG)10PF-D/50V-1005REEL		D011100117101S	1	
C1614	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1005REEL		D011102177101S	1	
C1616-1618	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	3	
C1619	nsp	C,CERAMIC CHIP HIK X7R)1UF-K/10V-1608REEL		D011105772161S	1	
C1620	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1	
C1621	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1622	nsp	C,CERAMIC CHIP HIK X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1	
C1624-1629	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	6	
C1630	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1631	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1632	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1633	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1634	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1635	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1636	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1637	nsp	C,CERAMIC CHIP HIK X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1	
C1638	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1639	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1640	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1641	nsp	C,CERAMIC CHIP T.C C0G)6PF-C/50V-1005REEL		D010060107100S	1	*
C1642	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1643-1647	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	5	
C1649	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1650	nsp	C,CERAMIC CHIP HIK X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1	
C1652	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1653-1655	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	3	
C1656	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1657-1662	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	6	
C1663	nsp	C,CERAMIC CHIP HIK X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1	
C1664,1665	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	2	
C1666,1667	nsp	C,CERAMIC CHIP HIK X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	2	
C1668	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1669	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1671-1674	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	4	
C1675	nsp	C,CERAMIC CHIP HIK X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1	
C1676-1678	nsp	C,CERAMIC CHIP HIK COG)33PF-J/50V-1005REEL		D011330167101S	3	
C1680	nsp	C,CERAMIC CHIP HIK X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1	
C1681	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1682	nsp	C,CERAMIC CHIP HIK X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1	
C1683-1685	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	3	
C1686	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1687	nsp	C,CERAMIC CHIP HIK COG)33PF-J/50V-1005REEL		D011330167101S	1	
C1689	nsp	C,CERAMIC CHIP T.C C0G)6PF-C/50V-1005REEL		D010060107100S	1	*
C1690	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1005REEL		D011102177101S	1	
C1691	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1692	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1693	nsp	C,CERAMIC CHIP HIK X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1	
C1694-1697	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	4	
C1698	00D9630338606	C,ELECT CHIP(GE) 10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	1	
C1699,1700	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	2	
C1701	nsp	C,CERAMIC CHIP HIK X7R)0.01UF-K/50V-1005REEL		D011103777101S	1	
C1702	nsp	C,CERAMIC CHIP HIK X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1	
C1704	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1705	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1005REEL		D011102177101S	1	
C1706,1707	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	2	
C1708,1709	nsp	C,CERAMIC CHIP HIK X5R)2.2UF-K/16V-1608REEL GRM188R61C225KE15D		D011225573160S	2	
C1710	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1712	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1713,1714	nsp	C,CERAMIC CHIP HIK X7R)1UF-K/10V-1608REEL		D011105772161S	2	
C1716	nsp	C,CERAMIC CHIP HIK X5R)2.2UF-K/16V-1608REEL GRM188R61C225KE15D		D011225573160S	1	
C1717	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1718	nsp	C,CERAMIC CHIP HIK X5R)2.2UF-K/16V-1608REEL GRM188R61C225KE15D		D011225573160S	1	
C1719	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1722	nsp	C,CERAMIC CHIP HIK X7R)1000PF-K/50V-1005REEL		D011102177101S	1	
C1723	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
C1724	nsp	C,CERAMIC CHIP T.C X7R 0.022UF-K/50V-1608REEL		D010223777160S	1	
C1726	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/10V-1005REEL		D011104172101S	1	
OTHER PARTS GROUP						
BKT1000	nsp	BRACKET AVRX2100WBKE3(DENON) SPT0.5 A4/SCREW L6.65		4010216286000S	1	
BKT1003	nsp	BRACKET NR1606U1BSPCC 0.8t+Sn		4010216306000S	1	*
CLP1001	nsp	CLAMP HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	1	
CLP1003,1004	nsp	CLAMP HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	2	
FB1000-1007	nsp	COIL,BEAD CB05YTYH221-2012REEL		D340201292210S	8	
JK1000	00D9630244703	JACK,D3.5 EARPHONE JACK PJ-308-02	U	G40130802000YS	1	
JK1001	963646012160S	TER,RCA 1PIN RCA-107C-BK(Black) PLATE NI CAP		G600107C0BK0YS	1	
JK1002	963239101100S	MODULE BCR-802-M25 25MBPS OPTICAL RECEIVER INTERFACE		E100802000250S	1	
L1000-1004	nsp	R,CHIP THICK 0-J,1/10W-2012REEL		C200000060201S	5	
L1005-1007	nsp	COIL,BEAD CB05YTYH221-2012REEL		D340201292210S	3	
L1008	963115100680S	COIL,INDUCTOR DG6045C DD1255AS-1R0N=P3 1UH POWER INDUCTOR		D310604590100S	1	
L1009,1010	nsp	R,CHIP THICK 0-J,1/10W-2012REEL		C200000060201S	2	
L1011	nsp	COIL,BEAD CB03YTYN121-1608REEL		D340160891210S	1	
L1012,1013	nsp	R,CHIP THICK 0-J,1/10W-2012REEL		C200000060201S	2	
L1015,1016	nsp	R,CHIP THICK 0-J,1/10W-2012REEL		C200000060201S	2	
L1019	963115100680S	COIL,INDUCTOR DG6045C DD1255AS-1R0N=P3 1UH POWER INDUCTOR		D310604590100S	1	
L1020-1023	nsp	R,CHIP THICK 0-J,1/10W-2012REEL		C200000060201S	4	
L1024	963115100680S	COIL,INDUCTOR DG6045C DD1255AS-1R0N=P3 1UH POWER INDUCTOR		D310604590100S	1	
L1025-1028	nsp	R,CHIP THICK 0-J,1/10W-2012REEL		C200000060201S	4	

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
L1029	963115100680S	COIL,INDUCTOR DG6045C DD1255AS-1R0N=P3 1UH POWER INDUCTOR		D310604590100S	1		
L1030-1038	nsp	R,CHIP THICK 0-J,1/10W-2012REEL		C200000060201S	9		
L1039	963115100680S	COIL,INDUCTOR DG6045C DD1255AS-1R0N=P3 1UH POWER INDUCTOR		D310604590100S	1		
L1040	nsp	R,CHIP THICK 0-J,1/10W-2012REEL		C200000060201S	1		
L1042,1043	nsp	R,CHIP THICK 0-J,1/10W-2012REEL		C200000060201S	2		
L1044	963115100680S	COIL,INDUCTOR DG6045C DD1255AS-1R0N=P3 1UH POWER INDUCTOR		D310604590100S	1		
L1045	nsp	R,CHIP THICK 0-J,1/10W-2012REEL		C200000060201S	1		
L1047	nsp	COIL,BEAD CB03YTYN121-1608REEL		D340160891210S	1		
L1048-1053	nsp	COIL,BEAD CB05YTYH221-2012REEL		D340201292210S	6		
L1056-1059	nsp	COIL,BEAD CB05YTYH221-2012REEL		D340201292210S	4		
L1062,1063	nsp	COIL,BEAD CB05YTYH221-2012REEL		D340201292210S	2		
L1067	nsp	COIL,CHIP EXC24CH900U 90OHM COMMON MODE SMD-REEL		D311121089000S	1		
L1068	nsp	COIL,BEAD CB05YTYH221-2012REEL		D340201292210S	1		
L1071-1074	nsp	COIL,BEAD CB05YTYH221-2012REEL		D340201292210S	4		
L1075	nsp	COIL,CHIP DLW21SN181SQ2L COMMON MODE CHOKE COILS SMD2012		D311201211810S	1		
L1076	nsp	R,CHIP THICK 0-J,1/10W-2012REEL		C200000060201S	1		
L1077,1078	nsp	COIL,CHIP DLW21SN900HQ2L COMMON MODE CHOKE COILS SMD2012		D311201219000S	2		
L1079	nsp	R,CHIP THICK 0-J,1/10W-2012REEL		C200000060201S	1		
LD1000	963263101000S	LED,IR BIR-BM1341W 3PI INFRARED LED	U	K505134101050S	1		
N1001	nsp	CN,WAFER 1.25B-2-23Y 23P BtoB SOCKET(FEMALE) P=1.25MM		L109125422310S	1		
N1002	nsp	CN,WAFER 1.25B-2-15Y 15P BtoB SOCKET(FEMALE) P=1.25MM		L109125421510S	1		
N1003	nsp	CN,WAFER 1.25B-2-27Y 27P BtoB SOCKET(FEMALE) P=1.25MM		L109125422710S	1		
N1004	nsp	CN.FPC 1.0MM 1.0-15-40PB 40P VER SMT		L130100154030S	1		
N1005	nsp	CN,WAFER 1.25B-2-17Y 17P BtoB SOCKET(FEMALE) P=1.25MM		L109125421710S	1		
N1006	nsp	CN,WAFER 2.0MM 20010WS-07A00 DIP7P STRAIGHT		L101200100710S	1		
N1014	nsp	CN.FPC 1.0MM 1.0-16-23PB-2 23P ST SMT (JSY)		L130100162330S	1		
N1015-1020	64401030161AS	CN.WAFER A0D7ABAR1990 SMT HDMICON R/A W/FLANGE		L109100190710S	6		
N1021	nsp	CN.WAFER 2.5MM YMW025-06R DIP ST		L102025060020S	1		
N1023	nsp	CN.WAFER 2.0MM 20010WS-06A00 DIP6P STRAIGHT		L101200100610S	1		
N1024	nsp	CN.FPC 1.0MM 1.0-16-7PB-2 7P ST SMT (JSY)		L130100160730S	1		
N1025	963643102800S	JACK,MODULAR RJ45-JACK(KRJ-015XXNL) KYD		G4060RJ450230S	1		
N1026	64401030160AS	CN.WAFER A0D7ABAR19N0 SMT HDMICON R/A W/O FLNG		L109100190720S	1		
N1038	nsp	CN.FPC 1.0MM 1.0-16-23PB-2 23P ST SMT (JSY)		L130100162330S	1		
X1000	963141101160S	CRYSTAL CHIP 12.000MHz CL=8PF FA-238V/SMD3225 EPSON		E80512R000260S	1		
X1001	963141100770S	CRYSTAL CHIP 24.576MHz CL=10PF FA-238/SMD3225 EPSON		E80524R576050S	1		
X1002	963141101410S	CRYSTAL CHIP 18.75MHz CL=10PF FA-238/SMD3225 EPSON		E80518R750050S	1	*	
X1003,1004	963141101180S	CRYSTAL CHIP 27.000MHz CL=7PF FA-238/SMD3225 EPSON		E80527R000050S	2		
X1005	963141101420S	CRYSTAL CHIP 28.63636MHz CL=7PF FA-238/SMD3225 EPSON		E80528R636360S	1	*	
Z1001	nsp	SHIELD SR5010U1B(MARANTZ) SPT E t0.3 A4/CASE	U	3070210646000SV	1	*	

5CH_AMP PCB ASS'Y

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

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

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

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

B : Black model SG : Silver Gold model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
SEMICONDUCTORS GROUP						
D4800	00D9600197000	D,SWITCHING CHIP KDS160(UF) /USC	K005016000010S	1		
D4805	00D9600197000	D,SWITCHING CHIP KDS160(UF) /USC	K005016000010S	1		
D4812	00D9600197000	D,SWITCHING CHIP KDS160(UF) /USC	K005016000010S	1		
D4817	00D9600197000	D,SWITCHING CHIP KDS160(UF) /USC	K005016000010S	1		
D4822	00D9600197000	D,SWITCHING CHIP KDS160(UF) /USC	K005016000010S	1		
Q4800	00D2710314903	SEMI,TR/GE PNP 2SA KTA1024Y,1W/TO92L-REEL	J5001024Y0050S	1		
Q4801	00D2710318909	SEMI,CHIP TR/PNP 2SA 2N5401S 0.35W/SOT-23 REEL	J520254010010S	1		
Q4803	00D9600196205	SEMI,TR/GE PNP 2SA KSA992F,0.5W/TO92-REEL	J5000992F0050S	1		
Q4804	00D2730479909	SEMI,CHIP TR/NPN 2SC 2N5551S 0.35W/SOT-23 REEL	J522255510010S	1		
Q4806,4807	00D9600196205	SEMI,TR/GE PNP 2SA KSA992F,0.5W/TO92-REEL	J5000992F0050S	2		
Q4809	00D2730471907	SEMI,TR/GE NPN 2SC KTC3206Y,1W/TO92L-REEL	J5023206Y0050S	1		
Q4810	00D2710314903	SEMI,TR/GE PNP 2SA KTA1024Y,1W/TO92L-REEL	J5001024Y0050S	1		
Q4811	00D9600196205	SEMI,TR/GE PNP 2SA KSA992F,0.5W/TO92-REEL	J5000992F0050S	1		
Q4812	00D2710318909	SEMI,CHIP TR/PNP 2SA 2N5401S 0.35W/SOT-23 REEL	J520254010010S	1		
Q4814	00D2730479909	SEMI,CHIP TR/NPN 2SC 2N5551S 0.35W/SOT-23 REEL	J522255510010S	1		
Q4816,4817	00D9600196205	SEMI,TR/GE PNP 2SA KSA992F,0.5W/TO92-REEL	J5000992F0050S	2		
Q4819	00D2730471907	SEMI,TR/GE NPN 2SC KTC3206Y,1W/TO92L-REEL	J5023206Y0050S	1		
Q4820	00D2710314903	SEMI,TR/GE PNP 2SA KTA1024Y,1W/TO92L-REEL	J5001024Y0050S	1		
Q4821	00D2710318909	SEMI,CHIP TR/PNP 2SA 2N5401S 0.35W/SOT-23 REEL	J520254010010S	1		
Q4823	00D2730479909	SEMI,CHIP TR/NPN 2SC 2N5551S 0.35W/SOT-23 REEL	J522255510010S	1		
Q4825,4826	00D9600196205	SEMI,TR/GE PNP 2SA KSA992F,0.5W/TO92-REEL	J5000992F0050S	2		
Q4828	00D2730471907	SEMI,TR/GE NPN 2SC KTC3206Y,1W/TO92L-REEL	J5023206Y0050S	1		
Q4829	00D2710314903	SEMI,TR/GE PNP 2SA KTA1024Y,1W/TO92L-REEL	J5001024Y0050S	1		
Q4830	00D2710318909	SEMI,CHIP TR/PNP 2SA 2N5401S 0.35W/SOT-23 REEL	J520254010010S	1		
Q4832	00D2730479909	SEMI,CHIP TR/NPN 2SC 2N5551S 0.35W/SOT-23 REEL	J522255510010S	1		
Q4834,4835	00D9600196205	SEMI,TR/GE PNP 2SA KSA992F,0.5W/TO92-REEL	J5000992F0050S	2		
Q4837	00D2730471907	SEMI,TR/GE NPN 2SC KTC3206Y,1W/TO92L-REEL	J5023206Y0050S	1		
Q4838	00D2710314903	SEMI,TR/GE PNP 2SA KTA1024Y,1W/TO92L-REEL	J5001024Y0050S	1		
Q4839	00D2710318909	SEMI,CHIP TR/PNP 2SA 2N5401S 0.35W/SOT-23 REEL	J520254010010S	1		
Q4841	00D2730479909	SEMI,CHIP TR/NPN 2SC 2N5551S 0.35W/SOT-23 REEL	J522255510010S	1		
Q4843,4844	00D9600196205	SEMI,TR/GE PNP 2SA KSA992F,0.5W/TO92-REEL	J5000992F0050S	2		
Q4846	00D2730471907	SEMI,TR/GE NPN 2SC KTC3206Y,1W/TO92L-REEL	J5023206Y0050S	1		
ZD4800	963202500300D	D,ZENER ZJ5.1A-0.5W/5MA-52MM SEMTECH	K06005R134522S	1		
ZD4803	963202500300D	D,ZENER ZJ5.1A-0.5W/5MA-52MM SEMTECH	K06005R134522S	1		
ZD4806	963202500300D	D,ZENER ZJ5.1A-0.5W/5MA-52MM SEMTECH	K06005R134522S	1		
ZD4809	963202500300D	D,ZENER ZJ5.1A-0.5W/5MA-52MM SEMTECH	K06005R134522S	1		
ZD4812	963202500300D	D,ZENER ZJ5.1A-0.5W/5MA-52MM SEMTECH	K06005R134522S	1		
RESISTOR GROUP						
R4800	nsp	R,CARBON FILM 1.8K-J,1/5W-52RE-AX	C00001826P520S	1		
R4801	nsp	R,CARBON FILM 100K-J,1/5W-52RE-AX	C00001046P520S	1		
R4802	nsp	R,CARBON FILM 1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R4803	963125003140S	R,METAL FILM 100PPM 5.6K-J,1W-R.REEL	C060056265050S	1		
R4804	963252100140D	POSISTOR DHPTF1608 471P 105T SMD PTC THERMISTOR	F320471001050S	1		
R4805	nsp	R,CHIP THICK 56K-J,1/16W-1608REEL	C20005636M160S	1		
R4806	963125003140S	R,METAL FILM 100PPM 5.6K-J,1W-R.REEL	C060056265050S	1		
R4807	nsp	R,CARBON FILM 100K-J,1/5W-52RE-AX	C00001046P520S	1		
R4809	nsp	R,CARBON FILM 680K-J,1/5W-52RE-AX	C00006846P520S	1		
R4810	nsp	R,CARBON FILM 47K-J,1/5W-52RE-AX	C00004736P520S	1		
R4811,4812	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL	C20001036M160S	2		
R4813	963125012630S	R,METAL FILM 100PPM 22-J,1W-5REEL	C060022065050S	1		
R4814	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	1		
R4815	nsp	R,CHIP THICK 270K-J,1/16W-1608REEL	C20002746M160S	1		
R4816,4817	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	2		
R4818	nsp	R,CHIP THICK 220K-J,1/16W-1608REEL	C20002246M160S	1		
R4819	nsp	R,CARBON FILM 2.7K-J,1/5W-52RE-AX	C00002726P520S	1		
R4820	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL	C20001036M160S	1		
R4821	963124500500S	R,FIXED,M.O. RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL	N113136622820S	1		
R4823	nsp	R,CHIP THICK 5.6K-J,1/16W-1608REEL	C20005626M160S	1		
R4825	nsp	R,CARBON FILM 1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R4826	nsp	R,CARBON FILM 1K-J,1/5W-52RE-AX	C00001026P520S	1		
R4827	nsp	R,CARBON FILM 33K-J,1/5W-52RE-AX	C00003336P520S	1		
R4829	963124500500S	R,FIXED,M.O. RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL	N113136622820S	1		
R4831	nsp	R,METAL FILM 100PPM 3.3K-J,1W-R.REEL	C060033265050S	1		
R4832	nsp	R,CHIP THICK 220K-J,1/16W-1608REEL	C20002246M160S	1		
R4833	nsp	R,CARBON FILM 560-J,1/5W-52RE-AX	C00005616P520S	1		
R4834	nsp	R,CARBON FILM 470K-J,1/5W-52RE-AX	C00004746P520S	1		
R4835	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	1		
R4836,4837	nsp	R,CARBON FILM 220-J,1/5W-52RE-AX	C00002216P520S	2		
R4838	963125012630S	R,METAL FILM 100PPM 22-J,1W-5REEL	C060022065050S	1		
R4839	nsp	R,CARBON FILM 150-J,1/5W-52RE-AX	C00001516P520S	1		
R4840	nsp	R,CARBON FILM 270-J,1/5W-52RE-AX	C00002716P520S	1		
R4841	nsp	R,METAL FILM 100PPM 1.2K-J,1W-5REEL	C060012265050S	1		
R4842	nsp	R,METAL FILM 100PPM 47-J,1W-R.REEL	C060047065060S	1		
R4843	nsp	R,CARBON FILM 1.8K-J,1/5W-52RE-AX	C00001826P520S	1		
R4844	nsp	R,CARBON FILM 100K-J,1/5W-52RE-AX	C00001046P520S	1		
R4845	nsp	R,CARBON FILM 1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R4846	963125003140S	R,METAL FILM 100PPM 5.6K-J,1W-R.REEL	C060056265050S	1		
R4847	00D9630337908	R,METAL FILM 100PPM 33-J,1W-R.REEL	C060033065050S	1		
R4848	963252100140D	POSISTOR DHPTF1608 471P 105T SMD PTC THERMISTOR	F320471001050S	1		
R4849	963125003140S	R,METAL FILM 100PPM 5.6K-J,1W-R.REEL	C060056265050S	1		
R4850	nsp	R,CARBON FILM 100K-J,1/5W-52RE-AX	C00001046P520S	1		
R4852	nsp	R,CARBON FILM 680K-J,1/5W-52RE-AX	C00006846P520S	1		
R4853	00D9639005639	R,METAL FILM 100PPM 100-J,1W-R.REEL	C060010165060S	1		
R4854	nsp	R,CARBON FILM 47K-J,1/5W-52RE-AX	C00004736P520S	1		
R4855,4856	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL	C20001036M160S	2		
R4857	963125012630S	R,METAL FILM 100PPM 22-J,1W-5REEL	C060022065050S	1		
R4858	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	1		
R4859	nsp	R,CHIP THICK 270K-J,1/16W-1608REEL	C20002746M160S	1		
R4860	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	1		
R4861	nsp	R,CHIP THICK 220K-J,1/16W-1608REEL	C20002246M160S	1		
R4862	nsp	R,CARBON FILM 2.7K-J,1/5W-52RE-AX	C00002726P520S	1		
R4863	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL	C20001036M160S	1		
R4864	963124500500S	R,FIXED,M.O. RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL	N113136622820S	1		
R4866	nsp	R,CHIP THICK 5.6K-J,1/16W-1608REEL	C20005626M160S	1		
R4870	nsp	R,CARBON FILM 1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R4871	nsp	R,CARBON FILM 1K-J,1/5W-52RE-AX	C00001026P520S	1		
R4872	nsp	R,CARBON FILM 33K-J,1/5W-52RE-AX	C00003336P520S	1		
R4874	252310006544S	POSISTOR PTC PRF18BF471QB5RB SMD1608 75T	F320184710060S	1		
R4876	963124500500S	R,FIXED,M.O. RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL	N113136622820S	1		
R4878	nsp	R,METAL FILM 100PPM 3.3K-J,1W-R.REEL	C060033265050S	1		
R4879	nsp	R,CHIP THICK 220K-J,1/16W-1608REEL	C20002246M160S	1		
R4880	nsp	R,CARBON FILM 560-J,1/5W-52RE-AX	C00005616P520S	1		
R4881	nsp	R,CARBON FILM 470K-J,1/5W-52RE-AX	C00004746P520S	1		
R4882	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	1		
R4883,4884	nsp	R,CARBON FILM 220-J,1/5W-52RE-AX	C00002216P520S	2		

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
R4885	963125012630S	R,METAL FILM 100PPM 22-J,1W-5REEL	C060022065050S	1		
R4886	nsp	R,CARBON FILM 150-J,1/5W-52RE-AX	C00001516P520S	1		
R4887	nsp	R,CARBON FILM 270-J,1/5W-52RE-AX	C00002716P520S	1		
R4888	nsp	R,METAL FILM 100PPM 1.2K-J,1W-5REEL	C060012265050S	1		
R4889	nsp	R,METAL FILM 100PPM 47-J,1W-R.REEL	C060047065060S	1		
R4890	nsp	R,CARBON FILM 1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R4891,4892	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL	C20001036M160S	2		
R4893	nsp	R,CARBON FILM 1.8K-J,1/5W-52RE-AX	C00001826P520S	1		
R4894	nsp	R,CARBON FILM 100K-J,1/5W-52RE-AX	C00001046P520S	1		
R4895	nsp	R,CARBON FILM 1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R4896	963125003140S	R,METAL FILM 100PPM 5.6K-J,1W-R.REEL	C060056265050S	1		
R4897	963252100140D	POSISTOR DHPTF1608 471P 105T SMD PTC THERMISTOR	F320471001050S	1		
R4898	963125003140S	R,METAL FILM 100PPM 5.6K-J,1W-R.REEL	C060056265050S	1		
R4899	nsp	R,CARBON FILM 100K-J,1/5W-52RE-AX	C00001046P520S	1		
R4901	nsp	R,CARBON FILM 680K-J,1/5W-52RE-AX	C00006846P520S	1		
R4902	nsp	R,CARBON FILM 47K-J,1/5W-52RE-AX	C00004736P520S	1		
R4903,4904	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL	C20001036M160S	2		
R4905	963125012630S	R,METAL FILM 100PPM 22-J,1W-5REEL	C060022065050S	1		
R4906	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	1		
R4907	nsp	R,CHIP THICK 270K-J,1/16W-1608REEL	C20002746M160S	1		
R4908	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	1		
R4909	nsp	R,CHIP THICK 220K-J,1/16W-1608REEL	C20002246M160S	1		
R4910	nsp	R,CARBON FILM 2.7K-J,1/5W-52RE-AX	C00002726P520S	1		
R4911	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL	C20001036M160S	1		
R4912	963124500500S	R,FIXED,M.O. RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL	N113136622820S	1		
R4914	nsp	R,CHIP THICK 5.6K-J,1/16W-1608REEL	C20005626M160S	1		
R4916	nsp	R,CARBON FILM 1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R4917	nsp	R,CARBON FILM 1K-J,1/5W-52RE-AX	C00001026P520S	1		
R4918	nsp	R,CARBON FILM 33K-J,1/5W-52RE-AX	C00003336P520S	1		
R4920	963124500500S	R,FIXED,M.O. RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL	N113136622820S	1		
R4922	nsp	R,METAL FILM 100PPM 3.3K-J,1W-R.REEL	C060033265050S	1		
R4923	nsp	R,CHIP THICK 220K-J,1/16W-1608REEL	C20002246M160S	1		
R4924	nsp	R,CARBON FILM 560-J,1/5W-52RE-AX	C00005616P520S	1		
R4925	nsp	R,CARBON FILM 470K-J,1/5W-52RE-AX	C00004746P520S	1		
R4926	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	1		
R4927,4928	nsp	R,CARBON FILM 220-J,1/5W-52RE-AX	C00002216P520S	2		
R4929	963125012630S	R,METAL FILM 100PPM 22-J,1W-5REEL	C060022065050S	1		
R4930	nsp	R,CARBON FILM 150-J,1/5W-52RE-AX	C00001516P520S	1		
R4931	nsp	R,CARBON FILM 270-J,1/5W-52RE-AX	C00002716P520S	1		
R4932	nsp	R,METAL FILM 100PPM 1.2K-J,1W-5REEL	C060012265050S	1		
R4933	nsp	R,METAL FILM 100PPM 47-J,1W-R.REEL	C060047065060S	1		
R4934	nsp	R,CARBON FILM 1.8K-J,1/5W-52RE-AX	C00001826P520S	1		
R4935	nsp	R,CARBON FILM 100K-J,1/5W-52RE-AX	C00001046P520S	1		
R4936	nsp	R,CARBON FILM 1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R4937	963125003140S	R,METAL FILM 100PPM 5.6K-J,1W-R.REEL	C060056265050S	1		
R4938	963252100140D	POSISTOR DHPTF1608 471P 105T SMD PTC THERMISTOR	F320471001050S	1		
R4939	963125003140S	R,METAL FILM 100PPM 5.6K-J,1W-R.REEL	C060056265050S	1		
R4940	nsp	R,CARBON FILM 100K-J,1/5W-52RE-AX	C00001046P520S	1		
R4942	nsp	R,CARBON FILM 680K-J,1/5W-52RE-AX	C00006846P520S	1		
R4943	nsp	R,CARBON FILM 47K-J,1/5W-52RE-AX	C00004736P520S	1		
R4944,4945	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL	C20001036M160S	2		
R4946	963125012630S	R,METAL FILM 100PPM 22-J,1W-5REEL	C060022065050S	1		
R4947	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	1		
R4948	nsp	R,CHIP THICK 270K-J,1/16W-1608REEL	C20002746M160S	1		
R4949	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	1		
R4951	nsp	R,CARBON FILM 2.7K-J,1/5W-52RE-AX	C00002726P520S	1		
R4952	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL	C20001036M160S	1		
R4953	963124500500S	R,FIXED,M.O. RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL	N113136622820S	1		
R4955	nsp	R,CHIP THICK 5.6K-J,1/16W-1608REEL	C20005626M160S	1		
R4957	nsp	R,CARBON FILM 1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R4958	nsp	R,CARBON FILM 1K-J,1/5W-52RE-AX	C00001026P520S	1		
R4959	nsp	R,CARBON FILM 33K-J,1/5W-52RE-AX	C00003336P520S	1		
R4961	963124500500S	R,FIXED,M.O. RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL	N113136622820S	1		
R4963	nsp	R,METAL FILM 100PPM 3.3K-J,1W-R.REEL	C060033265050S	1		
R4965	nsp	R,CARBON FILM 560-J,1/5W-52RE-AX	C00005616P520S	1		
R4966	nsp	R,CARBON FILM 470K-J,1/5W-52RE-AX	C00004746P520S	1		
R4967	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	1		
R4968,4969	nsp	R,CARBON FILM 220-J,1/5W-52RE-AX	C00002216P520S	2		
R4970	963125012630S	R,METAL FILM 100PPM 22-J,1W-5REEL	C060022065050S	1		
R4971	nsp	R,CARBON FILM 150-J,1/5W-52RE-AX	C00001516P520S	1		
R4972	nsp	R,CARBON FILM 270-J,1/5W-52RE-AX	C00002716P520S	1		
R4973	nsp	R,METAL FILM 100PPM 1.2K-J,1W-5REEL	C060012265050S	1		
R4974	nsp	R,METAL FILM 100PPM 47-J,1W-R.REEL	C060047065060S	1		
R4975	nsp	R,CARBON FILM 1.8K-J,1/5W-52RE-AX	C00001826P520S	1		
R4976	nsp	R,CARBON FILM 100K-J,1/5W-52RE-AX	C00001046P520S	1		
R4977	nsp	R,CARBON FILM 1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R4978	963125003140S	R,METAL FILM 100PPM 5.6K-J,1W-R.REEL	C060056265050S	1		
R4979	963252100140D	POSISTOR DHPTF1608 471P 105T SMD PTC THERMISTOR	F320471001050S	1		
R4980	nsp	R,CARBON FILM 100K-J,1/5W-52RE-AX	C00001046P520S	1		
R4982	nsp	R,CARBON FILM 680K-J,1/5W-52RE-AX	C00006846P520S	1		
R4983	963125003140S	R,METAL FILM 100PPM 5.6K-J,1W-R.REEL	C060056265050S	1		
R4984	nsp	R,CARBON FILM 47K-J,1/5W-52RE-AX	C00004736P520S	1		
R4985,4986	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL	C20001036M160S	2		
R4987	963125012630S	R,METAL FILM 100PPM 22-J,1W-5REEL	C060022065050S	1		
R4988	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	1		
R4989	nsp	R,CHIP THICK 270K-J,1/16W-1608REEL	C20002746M160S	1		
R4990	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	1		
R4992	nsp	R,CARBON FILM 2.7K-J,1/5W-52RE-AX	C00002726P520S	1		
R4993	nsp	R,CHIP THICK 10K-J,1/16W-1608REEL	C20001036M160S	1		
R4994	963124500500S	R,FIXED,M.O. RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL	N113136622820S	1		
R4996	nsp	R,CHIP THICK 5.6K-J,1/16W-1608REEL	C20005626M160S	1		
R4998	nsp	R,CARBON FILM 1.2K-J,1/5W-52RE-AX	C00001226P520S	1		
R4999	nsp	R,CARBON FILM 1K-J,1/5W-52RE-AX	C00001026P520S	1		
R5000	nsp	R,CARBON FILM 33K-J,1/5W-52RE-AX	C00003336P520S	1		
R5002	963124500500S	R,FIXED,M.O. RSD-R1-2WJ-0.22 3.5*8.6 P=5MM R.REEL	N113136622820S	1		
R5004	nsp	R,METAL FILM 100PPM 3.3K-J,1W-R.REEL	C060033265050S	1		
R5006	nsp	R,CARBON FILM 560-J,1/5W-52RE-AX	C00005616P520S	1		
R5007	nsp	R,CARBON FILM 470K-J,1/5W-52RE-AX	C00004746P520S	1		
R5008	nsp	R,CARBON FILM 22K-J,1/5W-52RE-AX	C00002236P520S	1		
R5009,5010	nsp	R,CARBON FILM 220-J,1/5W-52RE-AX	C00002216P520S	2		
R5011	963125012630S	R,METAL FILM 100PPM 22-J,1W-5REEL	C060022065050S	1		
R5012	nsp	R,CARBON FILM 150-J,1/5W-52RE-AX	C00001516P520S	1		
R5013	nsp	R,CARBON FILM 270-J,1/5W-52RE-AX	C00002716P520S	1		
R5014	nsp	R,METAL FILM 100PPM 1.2K-J,1W-5REEL	C060012265050S	1		
R5015	nsp	R,METAL FILM 100PPM 47-J,1W-R.REEL	C060047065060S	1		
CAPACITORS GROUP						
C4800	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL	D011104577160S	1		
C4801	nsp	C,CERAMIC CHIP T.C X7R)0.01UF-K/50V-1608REEL	D010103777160S	1		
C4802	nsp	C,ELECT GE 85C 47UF-M/50V,6.3*11 KR3-050V470ME110-T/A5.0S KOSHIN	D040470087550S	1		
C4804	nsp	C,CERAMIC CHIP T.C COG100PF-J/50V-1608REEL	D010101167160S	1		
C4805	963133502490S	C,FILM POLYESTER ST-0.00022UF-J/100V-5RE HPE221J2AP050T DAEHUNG	D02022106C250S	1		
C4806	nsp	C,ELECT GE 85C 47UF-M/25V,5*11 KR3-025V470MC110-T/A5.0S KOSHIN	D040470084550S	1		
C4807	00D2544573994	C,ELECT GE 85C 22UF-M/50V,5*11 RA3-50V220ME3#8P-T2 ELNA	D040220087330S	1		

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
C4808	nsp	C,ELECT GE 85C 100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1	
C4810	nsp	C,CERAMIC HIK DISC B470PF-K/500V-5RE		D00447127D050S	1	
C4811	nsp	C,CERAMIC CHIP HIK X7R2200PF-K/50V-2012REEL		D011222777200S	1	
C4813,4814	nsp	C,ELECT GE 85C 10UF-M/100V,6.3*11-5RE,SMS SY		D04010008C050S	2	
C4815	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	1	
C4816	nsp	C,ELECT GE 85C 47UF-M/50V,6.3*11 KR3-050V470ME110-T/A5.0S KOSHIN		D040470087550S	1	
C4818	00D9630324005	C,ELECT GE 85C 100UF-M/100V,10*16-S.BULK,MHA-SY		D04010108C240S	1	
C4819	nsp	C,CERAMIC CHIP T.C COG100PF-J/50V-1608REEL		D010101167160S	1	
C4820	963133502490S	C,FILM POLYESTER ST-0.00022UF-J/100V-5RE HPE221J2AP050T DAEHUNG		D02022106C250S	1	
C4821	nsp	C,ELECT GE 85C 47UF-M/25V,5*11 KR3-025V470MC110-T/A5.0S KOSHIN		D040470084550S	1	
C4822	00D2544573994	C,ELECT GE 85C 22UF-M/50V,5*11 RA3-50V220ME3#8P-T2 ELNA		D040220087330S	1	
C4823	nsp	C,ELECT GE 85C 100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1	
C4825	nsp	C,CERAMIC HIK DISC B470PF-K/500V-5RE		D00447127D050S	1	
C4826	nsp	C,CERAMIC CHIP HIK X7R2200PF-K/50V-2012REEL		D011222777200S	1	
C4828,4829	nsp	C,ELECT GE 85C 10UF-M/100V,6.3*11-5RE,SMS SY		D04010008C050S	2	
C4830,4831	nsp	C,ELECT GE 85C 330UF-M/6.3V,6.3*11-5RE SMS SY		D040331081050S	2	
C4832	nsp	C,ELECT GE 85C 47UF-M/10V,5*11-5RE SMS SY (Pb Free)		D040470082060S	1	
C4835	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	1	
C4836	nsp	C,ELECT GE 85C 47UF-M/50V,6.3*11 KR3-050V470ME110-T/A5.0S KOSHIN		D040470087550S	1	
C4838	nsp	C,CERAMIC CHIP T.C COG100PF-J/50V-1608REEL		D010101167160S	1	
C4839	963133502490S	C,FILM POLYESTER ST-0.00022UF-J/100V-5RE HPE221J2AP050T DAEHUNG		D02022106C250S	1	
C4840	nsp	C,ELECT GE 85C 47UF-M/25V,5*11 KR3-025V470MC110-T/A5.0S KOSHIN		D040470084550S	1	
C4841	00D2544573994	C,ELECT GE 85C 22UF-M/50V,5*11 RA3-50V220ME3#8P-T2 ELNA		D040220087330S	1	
C4842	nsp	C,ELECT GE 85C 100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1	
C4844	nsp	C,CERAMIC HIK DISC B470PF-K/500V-5RE		D00447127D050S	1	
C4845	nsp	C,CERAMIC CHIP HIK X7R2200PF-K/50V-2012REEL		D011222777200S	1	
C4849	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	1	
C4850	nsp	C,ELECT GE 85C 47UF-M/50V,6.3*11 KR3-050V470ME110-T/A5.0S KOSHIN		D040470087550S	1	
C4852	nsp	C,CERAMIC CHIP T.C COG100PF-J/50V-1608REEL		D010101167160S	1	
C4853	963133502490S	C,FILM POLYESTER ST-0.00022UF-J/100V-5RE HPE221J2AP050T DAEHUNG		D02022106C250S	1	
C4854	nsp	C,ELECT GE 85C 47UF-M/25V,5*11 KR3-025V470MC110-T/A5.0S KOSHIN		D040470084550S	1	
C4855	nsp	C,ELECT GE 85C 22UF-M/50V,5*11-5RE,SMS SY		D040220087060S	1	
C4856	nsp	C,ELECT GE 85C 100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1	
C4858	nsp	C,CERAMIC HIK DISC B470PF-K/500V-5RE		D00447127D050S	1	
C4859	nsp	C,CERAMIC CHIP HIK X7R2200PF-K/50V-2012REEL		D011222777200S	1	
C4863	nsp	C,CERAMIC CHIP HIK X7R)0.1UF-K/50V-1608REEL		D011104577160S	1	
C4864	nsp	C,ELECT GE 85C 47UF-M/50V,6.3*11 KR3-050V470ME110-T/A5.0S KOSHIN		D040470087550S	1	
C4866	nsp	C,CERAMIC CHIP T.C COG100PF-J/50V-1608REEL		D010101167160S	1	
C4867	963133502490S	C,FILM POLYESTER ST-0.00022UF-J/100V-5RE HPE221J2AP050T DAEHUNG		D02022106C250S	1	
C4868	nsp	C,ELECT GE 85C 47UF-M/25V,5*11 KR3-025V470MC110-T/A5.0S KOSHIN		D040470084550S	1	
C4869	nsp	C,ELECT GE 85C 22UF-M/50V,5*11-5RE,SMS SY		D040220087060S	1	
C4870	nsp	C,ELECT GE 85C 100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1	
C4872	nsp	C,CERAMIC HIK DISC B470PF-K/500V-5RE		D00447127D050S	1	
C4873	nsp	C,CERAMIC CHIP HIK X7R2200PF-K/50V-2012REEL		D011222777200S	1	
OTHER PARTS GROUP						
BKT4800	nsp	TERMINAL MET37-0002/TAPIG EARTH FITTING		3790040886000S	1	
CLP4800	nsp	CLAMP HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	1	
CN4800	nsp	CN.WIRE 2MM 180MM/7P 20010HS-07=CKM2002HV-07 WH1007#26		L002181072620S	1	*
CP4800	nsp	CN.WAFER 2.5MM YMW025-05R DIP ST		L102025050020S	1	
CP4801	nsp	CN.WAFER 2.0MM 20010WS-13A00 DIP13P STRAIGHT		L101200101310S	1	
CP4802	nsp	CN.WAFER 2.5MM YMW025-08R DIP ST		L102025080020S	1	
LUG4800	nsp	CN,WIRE 120MM/1P CKM9919T=CKM9919T BK1007#20		L000121010240S	1	*
TP4800	nsp	CN.WAFER 2.0MM 20010WR-02A00 DIP2P RIGHT ANGLE		L101200100220S	1	
TP4802	nsp	CN.WAFER 2.0MM 20010WR-02A00 DIP2P RIGHT ANGLE		L101200100220S	1	
TP4804	nsp	CN.WAFER 2.0MM 20010WR-02A00 DIP2P RIGHT ANGLE		L101200100220S	1	
TP4806	nsp	CN.WAFER 2.0MM 20010WR-02A00 DIP2P RIGHT ANGLE		L101200100220S	1	
TP4808	nsp	CN.WAFER 2.0MM 20010WR-02A00 DIP2P RIGHT ANGLE		L101200100220S	1	
VR4800-4804	963161102010S	VR,SEMI CARBON MOLD NVZ6THT/REEL 1KB		C541102315020S	5	*

EXPLODED

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

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

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

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

B : Black model SG : Silver Gold model

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
1	963412100780M	KNOB NR1403U1B(MARANTZ) BLACK A3/VOLUME KNOB	BK	5080212691000S 5080212691000CN	2		
1	963412100790M	KNOB NR1403/1603 SG A3/VOLUME KNOB	SG	5087212691100S 5087212691100CN	2		
2	nsp	NUTS		-	2		
3	963419006180M	DECORATION NR1501FB(MARANTZ) ABS BK HF380-9001 RING KNOB	BK	5127210901000S 5127210901000CN	2		
3	963419006190M	DECORATION NR1501N1SG(MARANTZ) ABS SG HF380-8A529 RING KNOB	SG	5127210901100S 5127210901100CN	2		
4	963421006200M	BADGE NR1501FB(MARANTZ) SILVER/GRAY 11c AL		5630210678000S	1		
5	963416100560M	WINDOW NR-1402/1602(ALL) ACRYL RED WINE COLOR A4/WINDOW		5077212733020S 5077212733020CN	1		
6	963402105480S	PANEL NR1506U1B ABS BK A2 / FRONT	U	3067216441030S	1	*	
6	963402105490S	PANEL NR1506N1B/K1B ABS BK A2 / FRONT	N1BK, K	3067216441040S	1	*	
6	963402105500S	PANEL NR1506N1SG(MARANTZ) ABS SG A2 / FRONT	N1SG	3067216441110S	1	*	
7	411510021005M	BUTTON NR1501FB(MARANTZ) ABS BK HF380-9001 POWER TACT	BK	5090213961000S 5090213961000CN	1		
7	963411012000M	BUTTON NR1601(N1SG) ABS(HF380-8A529) POWER TACT	SG	5097213961100S 5097213961100CN	1		
8	963481006080M	LENS NR1506U1B PMMA MILKY/STANDBY		3710210873000S 3710210873000CN	1		
9	nsp	P.C.B SUB ASSY NR1506U1B(MARANTZ)/HP		7028078242010	1	*	
10	963481006070M	LENS NR1506U1BACRYL MILKY A4/HDMI		3710210843000S 3710210843000CN	2		
11	963411101820M	BUTTON NR-1403/1603 ABS BK A3/4KEY	BK	5097215011000S 5097215011000CN	2		
11	963411101830M	BUTTON NR-1403/1603 ABS SG A3/4KEY	SG	5097215011100S 5097215011100CN	2		
13	nsp	CLAMP (SECC+PVC)DARB-2-5.6-6X50/MTG		4330210189000S	3		
14	nsp	P.C.B SUB ASSY NR1506U1B(MARANTZ)/FRONT		7028078241010	1	*	
15	nsp	P.C.B SUB ASSY NR1506U1B(MARANTZ)/HDMI_GUIDE_B		7028078294010	1	*	
16	nsp	P.C.B SUB ASSY NR1506U1B(MARANTZ)/HDMI_GUIDE_A		7028078293010	1	*	
17	nsp	HEAT SINK NR1606U1B AL6063S A4/MAIN HEAT SINK		2120212408000S	1	*	
18	nsp	P.C.B SUB ASSY NR1506U1B(MARANTZ)/GUIDE_L		7028078235010	1	*	
19	nsp	TAPE NR1606U1B(MARANTZ) NO_156(15X45)SCETATE CLOTH TAPE		1220210059050SV	8	*	
20-Q4808	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
20-Q4818	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
20-Q4827	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
20-Q4836	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
20-Q4845	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
21-Q4805	963219003340S	KTC3964/TO126S-BULK		J502396400010S	1		
21-Q4815	963219003340S	KTC3964/TO126S-BULK		J502396400010S	1		
21-Q4824	963219003340S	KTC3964/TO126S-BULK		J502396400010S	1		
21-Q4833	963219003340S	KTC3964/TO126S-BULK		J502396400010S	1		
21-Q4842	963219003340S	KTC3964/TO126S-BULK		J502396400010S	1		
22-Q4802	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
22-Q4813	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
22-Q4822	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
22-Q4831	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
22-Q4840	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
23	nsp	BRACKET R925 SECC 1.0T/H SINK		4010056906010S	5		
24	nsp	P.C.B SUB ASSY NR1506U1B(MARANTZ)/5CH AMP		7028078211010	1	*	
25	00M243W057210	FOOT NR1605U1B(MARANTZ) ABS/FOOT (ANAM COM)		4007210841000S 4007210841000CN	4		
26	00M32CW107010	CUSHION NR1605U1BFELT+EAA(BK)A4/FOOT		4050215145000S	4		
27	nsp	CHASSIS NR1606U1B SECC 1.0T A2/MAIN		3200215226000S	1	*	
28	963403101240M	CABINET NR1606U1B(MARANTZ) NR1606U1BSECC t0.8 TOP COVER	BK	3007211786100S 3007212156000S	1		
28	963403101250M	CABINET NR1606N1SG(MARANTZ) NR1606U1B(MARANTZ) NR1606U1BSE	SG	3007211786110S 3007212156010S	1		
29	nsp	CUSHION RUBBER(HARDNESS50~70)BK/SCREW		4050213025000S	2		
! 31	963101102740S	POWER TRANS NR1506(U1B) 120V/60HZ 85.8*63/MAIN SEOUL	U	8200858630770S	1	*	
! 31	963101102750S	POWER TRANS NR1506(N1B) 230V/50,60HZ 85.8*63/MAIN SEOUL	N	8200858630780S	1	*	
! 31	963101102720S	POWER TRANS NR1506(K1B) 220V/50,60HZ 85.8*63/MAIN SEOUL	K	8200858630790S	1	*	
32	nsp	SUPPORTER KIFCO(PS801) /P.C.		4070210192000S	1		
33	nsp	CUSHION NR1606U1B(MARANTZ) RUBBER BK 8*12*10t/MD DOOR BK		4050212005000SV	1		
34	nsp	SUPPORTER UPAF07 ABS BK/PCB		4070001601010S	1		
35	nsp	CHASSIS NR1506U1B SECC 0.6T BACK	U	3207215216000S	1	*	
35	nsp	CHASSIS NR1506N1B/N1SG SECC 0.6T BACK	N	3207215216100S	1	*	
35	nsp	CHASSIS NR1506K1B SECC 0.6T BACK	K	3207215216110S	1	*	
36	nsp	BRACKET SECC t1.0 A4 /SMPS		4010214886000DS	1		
37	nsp	P.C.B SUB ASSY NR1506U1B(MARANTZ)/SMPS		7028078234010	1	*	
38	nsp	P.C.B SUB ASSY NR1506U1B(MARANTZ)/SPK		7028078291010	1	*	
39	nsp	P.C.B SUB ASSY NR1506U1B(MARANTZ)/REG_CNT		7028078232010	1	*	
40	nsp	P.C.B SUB ASSY NR1506U1B(MARANTZ)/REG		7028078231010	1	*	
41	nsp	SOCKET,POWER AC AC INLET R-301(B21)		G430040807010S	1	*	
42	nsp	P.C.B SUB ASSY NR1506U1B(MARANTZ)/USB		7028078243010	1	*	
43	nsp	P.C.B SUB ASSY NR1506U1B(MARANTZ)/FRONT_CNT		7028078233010	1	*	
44		-		-	-		
45	nsp	P.C.B SUB ASSY NR1506U1B(MARANTZ)/AV		7028078251010	1	*	
46	nsp	P.C.B SUB ASSY NR1506U1B(MARANTZ)/SIDE_CNT		7028078292010	1	*	
47	9U6391022300S	HDMI PCB ASSY (U)		7025HK1406015	1	*	
L12	-	F-HDMI PCB			1	*	
47	9U6391022400S	HDMI PCB ASSY (N)		7025HK1406025	1	*	
L12	-	F-HDMI PCB			1	*	
47	9U6391022500S	HDMI PCB ASSY (K)		7025HK1406045	1	*	
L12	-	F-HDMI PCB			1	*	
48	nsp	PLATE NR1606U1BSPT 0.3T A4/SHIELD PLATE		4470213046000S	1	*	
51	nsp	SHEET SR5006U1BHIMELON 10*70*t0.35 A4/HIMELON		1210211629000S	2		
52	nsp	SPRING NR1605U1BSUS304 P11.2/KNOB		3720210576000S	1		
53	963419100910S	BUSHING ABS(HB)(CMH1A357) A4/WIFI ANT		2410210161000S 2410210161000CN	2		
54	963419100930S	SUPPORTER ABS(HB)(CMH1A360) A3/WIFI ANT		4070212301000S 4070212301000CN	2		
55	963419100920S	HOLDER ABS(HB)(CMH1A358) A3/WIFI ANT		4320211391000S 4320211391000CN	2		
56	963116100530S	WIFI ANT(L) : wire 450mm		E600506600010S	1		
57	9R1891003100M	CY920 MODULE ASSY		9R1891003100M	1		
58	nsp	WASHER CM6001 F1B(MARANTZ) 2.75*6.5*0.45t TOOTHED WASHER		1530210126000S	3		
59	nsp	SHEET NR1601U1B(MARANTZ) PC 0.3t DARD GRAY/TOP SHEET		1210211362000S	1		
60	nsp	CUSHION NR1506U1B 60*10*4.5t EVA/SMPS		4050215985100SV	1	*	
61	963116100540S	WIFI ANT(R) : wire 300mm		E600505600010S	1		
SCREW							
S1	nsp	SCREW,TAP TITE +2S 3*10 B-TYPE(DOT) BK/BH		B020030103B11SV	2		
S1	nsp	SCREW,TAP TITE +2S 3*10 B-TYPE(DOT) BK/BH		B020030103B11SV	16		

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
S2	nsp	SCREW,TAP TITE +2S 3*8 B-TYPE ZNW/BH		B020030081B10SV	30		
S2	nsp	SCREW,TAP TITE +2S 3*8 B-TYPE ZNW/BH		B020030081B10SV	4		
S2	nsp	SCREW,TAP TITE +2S 3*8 B-TYPE ZNW/BH		B020030081B10SV	10		
S3	nsp	SCREW,TAP TITE +2S 3*17 B-TYPE ZNW/BH		B020030171B10SV	1		
S4	nsp	SCREW,TAP TITE +3S 4*10 P+S-WASHER(ROUND)BK/BH		B028940101B11SV	4		
S5	nsp	SCREW,TAPPING +2S 3*14 PS-WASHER ZNY/HH		B018230141H11SV	15		
S6	nsp	SCREW +2S 3*8 PI9.5 B-TYPE ZNW		1500001206010SV	2		
S7	nsp	SCREW,TAP TITE +2S 3*8 B-TYPE(DOT) BK/BH	BK	B020030083B11SV	6	*	
S7	nsp	SCREW,TAP TITE +2S 3*8 B-TITE(DOT) NI/BH	SG	B020030084B12SV	6	*	
S8	nsp	SCREW,TAP TITE +2S 3*10 B-TITE CZN /BH		B020030101B10SV	15	*	
S9	nsp	SCREW,TAP TITE +2S 3*8 B-TYPE BK/FH		B020030083F10SV	2	*	
S10	nsp	SCREW,TAP TITE +2S 3*8 B-TITE(PWH) CZN /BH		B020030081W10SV	1	*	
S11	nsp	SCREW,TAP TITE +3S 3*5 C-TITE CZN/BH		B020930051B10SV	1	*	
S12	nsp	SCREW,TAP TITE +2S 3*10 B-TYPE BK/BH	BK	B020030103B10SV	4	*	
S12	nsp	SCREW,TAP TITE +2S 3*10 B-TITE NI/BH	SG	B020030104B10SV	4	*	
S13	nsp	SCREW,TAP TITE +3S 3*4 S-TYPE BK/BH		B020030043B10SV	7		
S14	nsp	SCREW,TAP TITE +2S 3*6 B-TYPE BK/BH		B020030063B10SV	2	*	
S15	nsp	SCREW,TAP TITE +2S 3*6(ROUND) BK/BH		B020230063B10SV	1		
★	nsp	WIRING ASSY NR1506U1B(MARANTZ)		1028HK1406010	1	*	
★	963606502800S	CABLE,FLAT CARD 1.0MM 1.0*40*200*A(4/4/8/8)*(0.035*0.65)		N711402012480S	1	*	
★	963606502810S	CABLE,FLAT CARD 1.0MM 1.0*23*240*A(4/4/8/8)*(0.035*0.65)		N711232412480S	1	*	
★	nsp	CN,WIRE 60MM/2P CKM3962-03=18730(187REC) WH1617#22		L000600020130S	1		

PACKING

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

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

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

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	963533103060S	CUSHION,SNOW NR1606U1B EPS55 FRONT TOP		6230214094000S	1	*	
3	963533103070S	CUSHION,SNOW NR1606U1B EPS55 FRONT BOTTOM		6230214104000S	1	*	
4	963533103080S	CUSHION,SNOW NR1606U1B EPS55 REAR TOP		6230214114000S	1	*	
5	963533103090S	CUSHION,SNOW NR1606U1B(MARANTZ) EPS55 REAR BOTTOM		6230214124000S	1	*	
6	nsp	BATTERY,DRY R03 AAA SIZE 1.5V		G670001R50243S	2	*	
7	30701021600AS	REMOCON NR1506(MARANTZ)/RC028SR		8300028000040S	1	*	
8	32401000800AD	MIC CONDENSER AUTO SETUP MIC ACM1HB		M040000310080S	1		
9	nsp	PE,SHEET Warning 28 Language NITRON 750*1460/SET		6327040059000S	1		
10	963531105110S	BOX,GIFT NR1506U1B(MARANTZ) (BA FLUTE)(516*460*176)		6007213030010S	1	*	
11	nsp	LABEL NR1506 (U1B) CONTROL/Box 2EA+SERIAL 1EA attach		5507000019400S	1	*	
12	nsp	-		-	-		
13	nsp	TAPE TAPE PACKING W:50(NEW TAPE:4.5kgf)		1220210772000S	1.4		
14	nsp	CN.CATV SGLBF-6B ANT DUAL TUNER ISOLATOR BLACK	K	L170200060010S	1		
15	nsp	LABEL NR1506/1606/SR5009(U) SIRIUS XM/SPOFITY-BOXattach-	U	5507000019180S	1	*	
16	nsp	LABEL NR1506/1606/SR5009(N) SPOFITY-BOXattach-	NBK	5507000019190S	1	*	
17	nsp	LABEL Marantz (N1SG) / COLOR SG 544110091014M	NSG	5507000019520S	2	*	
18	nsp	LABEL NR-1506(U1B) POP/REMOVABLE -SET-		5507000019460S	1	*	
!	963611501070S	CORD ASSY 13A/125V SP14/IS14A SJT 16AWG*2 1.8M WH-STRAP		L068125130220S	1		
!	90M-ZC000600R	CORD ASSY 16A/250V M3204/VAC17S H05VV-F2C*1MM 1.8M WH-STRAP		L068250160120S	1		
!	963611501100S	CORD ASSY 10A/250V SP505A/IS14A RVV300/500 1.83M WH-STRAP		L068250100220S	1	*	
20	nsp	-		-	-		
21	963549101000D	STAND ASSY (CPG1A1021ZA)PAPER A3/MIC		4148210170000S	1		
22	nsp	LABEL AVR_NR_SR / MIC		5507000019510S	1		
23	963419100570M	SHEET NR1504(ALL)SPEAKER REAR SHEET		1217212369000S	1		
24	nsp	LABEL NR1506/U1B_QR CODE	U	5507000019550S	1	*	
A4 SIZE POLYBAG ASSY							
	963116100550S	ANTENNA,WIRE ANT FM NTSC CABLE 1500MM BK1007#22 WH-STARP LABEL		E605010140050S	1		
	963116100560S	ANTENNA,LOOP ANT AM LOOP STAND 9.5UH BK1691#24 WH-STRAP LABEL		E601019000050S	1		
	nsp	SHEET SR5010/NR1606/1506(ALL) Notes on RADIO Sheet (A3)		5227000003630S	1	*	
	nsp	WARRANTY CARD Marantz (U1B) WARRANTY No.54311010512AM	U	5727000000170S	1	*	
	nsp	Marantz (K1B) WARRANTY china 54311016220AM	K	5727000000450S	1	*	
	nsp	WARRANTY CARD Marantz (U1B) Canada warranty SN.00M183J854018	U	5727041650180S	1	*	
	nsp	SHEET NR1506 (U1B) Safety Instruction (A3)		5227000003660S	1	*	
	963544104560S	LABEL NR1506(ALL) SPEAKER WIRE LABEL		5507000018980S	1	*	
	nsp	CARD MARANTZ (K) Pass CARD CHINA	K	5777000000290S	1		
A5 SIZE POLYBAG ASSY							
	54111129400AM	INSTRUCTION MANUAL NR1506 (U1B) Quick Manual / No.	U	5707000010200S	1	*	
	54111129401AM	INSTRUCTION MANUAL NR1506 (N1B/N1SG) Quick Manual / No.	N	5707000010210S	1	*	
	54111129402AM	INSTRUCTION MANUAL NR1506 (K1B) Quick Manual / No.	K	5707000010220S	1	*	
	35201039901AM	DISC NR1506 (N1B) CD MANUAL No.	N	6517000002310S	1	*	
	35201039902AM	DISC NR1506 (K1B) CD MANUAL No.	K	6517000002320S	1	*	