DENON

Ver. 1

SERVICE MANUAL

MODEL	JP	E3	E2	EK	EA	E1	E1C	E1K
AVR-X1200W	✓	✓	✓				✓	
AVR-S710W		✓						

INTEGRATED NETWORK AV RECEIVER

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

• Please use this service manual with referring to the operating instructions without fail.

• Some illustrations using in this service manual are slightly different from the actual set.

DENON

D&M Holdings Inc.

CONTENTS

ABOUT THIS MANUAL

Read the following information before using the service manual.

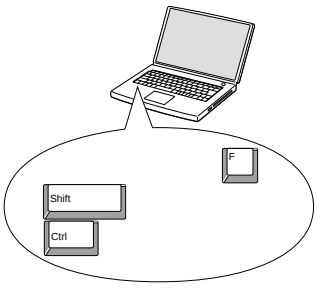
What you can do with this manual

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

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

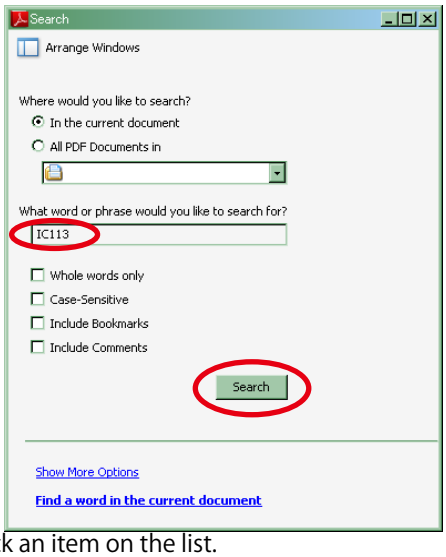
1.Press **Ctrl+Shift+F** on the keyboard.

- The Search window appears.



2.Enter the Ref. No. you want to search for in the Search window, and then click the **Search** button.

•A list of search results appears.



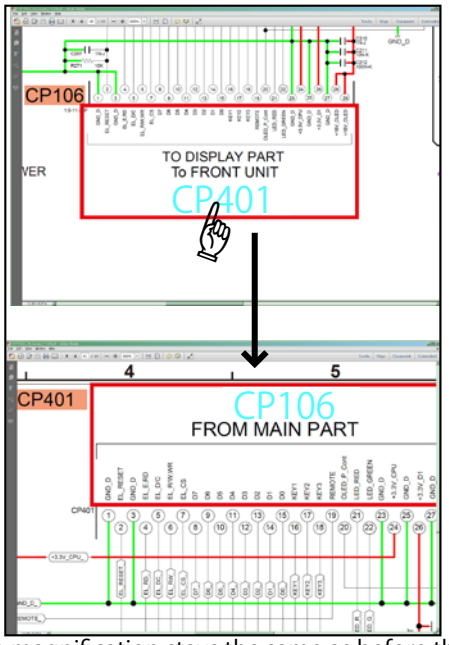
3.Click an item on the list.

• The screen jumps to the page for that item, and the search phrase is displayed.

Jump to the target of a schematic diagram connector

Click the Ref. No. of the target connector in the red box around a schematic diagram connector.

•The screen jumps to the target connector.



•Page magnification stays the same as before the jump.

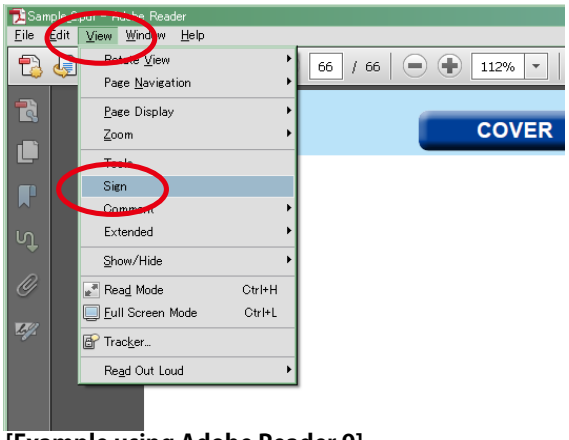
Using Adobe Reader (Windows version)

Add notes to this data (Sign)

The Sign function lets you add notes to the data in this manual.
Save the file once you have finished adding notes.

[Example using Adobe Reader X]
On the **"View"** menu, click **"Sign"**.

- The Sign pane appears.



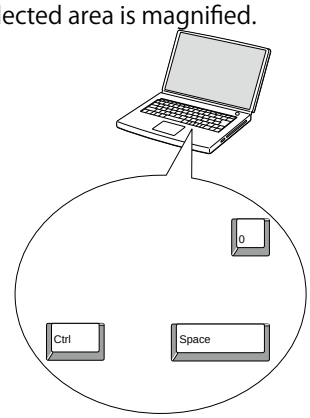
[Example using Adobe Reader 9]
On the **"Document"** menu, click **"Sign"**.

Magnify schematic / printed circuit board diagrams - 1

(Ctrl+Space, mouse operation)

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

- The selected area is magnified.

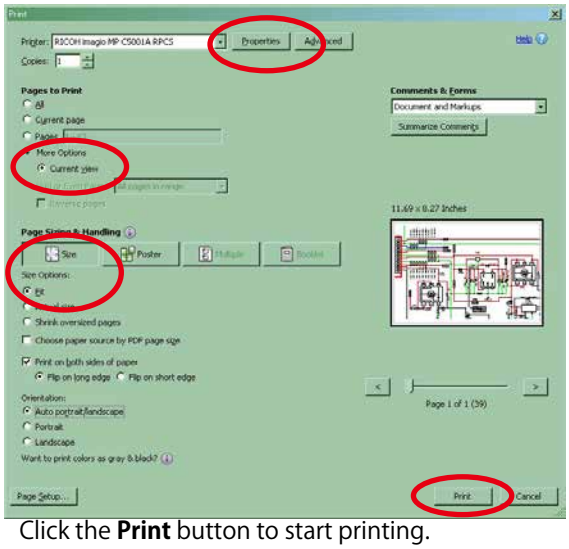


- When you want to move the area shown, hold down **Space** and drag the mouse.
- When you want to show a full page view, press **Ctrl+0** on the keyboard.

Print a magnified part of the manual

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

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



- **Properties**

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

  Select the following checkbox.
  "More Options" : **"Current View"**
- **Page Sizing & Handling**

  Select the following checkbox.
  "Size" / **"Size Options"** : **"Fit"**

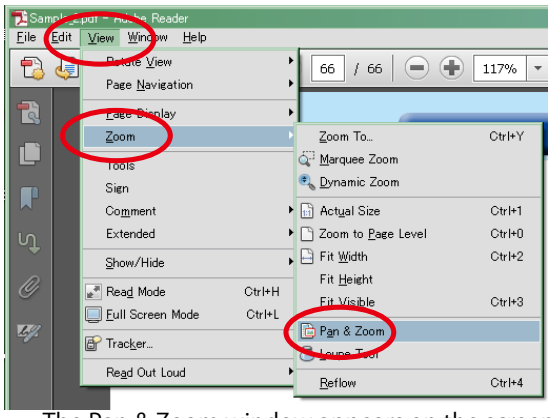
4. Click the **Print** button to start printing.

Magnify schematic / printed circuit board diagrams - 2

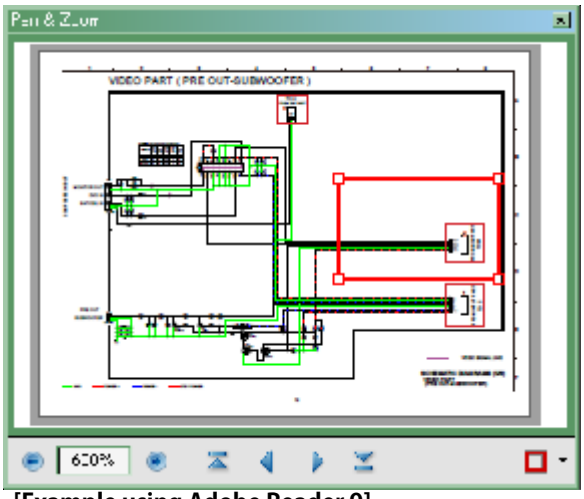
(Pan & Zoom function)

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

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



- The Pan & Zoom window appears on the screen.



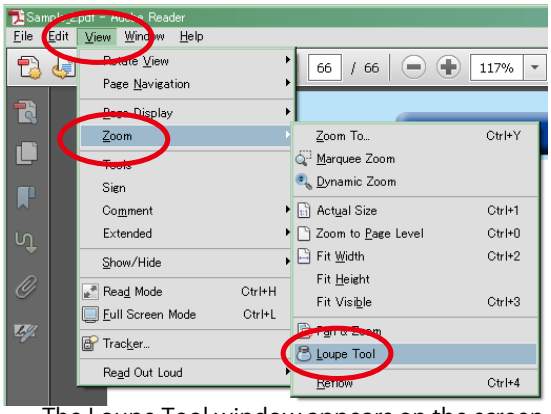
[Example using Adobe Reader 9]
On the **"Tools"** menu, point to **"Select & Zoom"**, and then click **"Pan & Zoom Window"**.

Magnify schematic / printed circuit board diagrams - 3

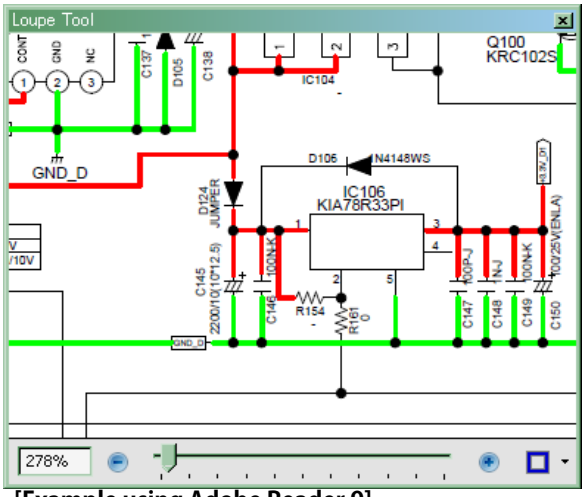
(Loupe Tool function)

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

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



- The Loupe Tool window appears on the screen.



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

SAFETY PRECAUTIONS

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

leakage current check

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

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

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

◎ **Heed the cautions!**

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

◎ **Cautions concerning electric shock!**

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

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

◎ **Caution concerning disassembly and assembly!**

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

◎ **Use only designated parts!**

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). Be sure to use parts which have the same properties for replacement. The burrs have the same properties. In particular, for the important safety parts that are indicated by the ⚠ mark on schematic diagrams and parts lists, be sure to use the designated parts.

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

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

◎ **Make a safety check after servicing!**

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

(Insulation check procedure)

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

CAUTION **Concerning important safety parts**

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

(1) Schematic diagrams.....Indicated by the ⚠ mark.

(2) Parts lists.....Indicated by the ⚠ mark.

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

NOTE FOR SCHEMATIC DIAGRAM

WARNING:
Parts indicated by the ⚠ mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.
CAUTION:
Before returning the set to the customer, be sure to carry out either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the set is defective.
WARNING:
DO NOT return the set to the customer unless the problem is identified and remedied.
NOTICE:
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM / M=1,000,000 OHM
ALL CAPACITANCE VALUES ARE EXPRESSED IN MICRO FARAD, UNLESS OTHERWISE INDICATED. P INDICATES MICRO-MICRO FARAD. EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

NOTE FOR PARTS LIST

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

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

INSTRUCTIONS FOR HANDLING SEMI-CONDUCTORS AND OPTICAL UNIT

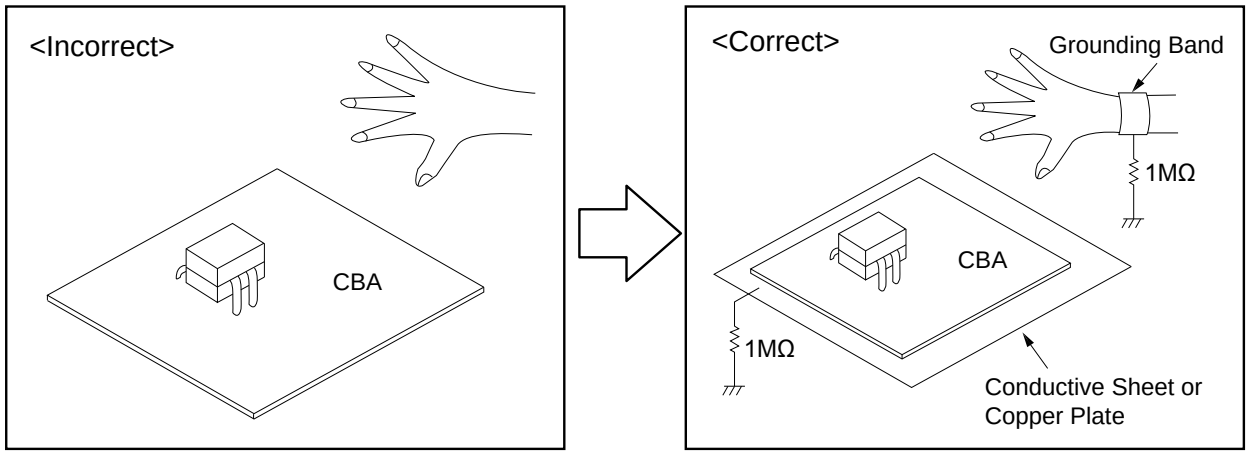
Electrostatic breakdown of the semi-conductors or optical pickup may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

1. Ground for Human Body

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

2. Ground for Workbench

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



Personal notes:

TECHNICAL SPECIFICATIONS FOR AVR-X1200W

❑ Audio section

- **Power amplifier**

Rated output :

Front :

80 W + 80 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)
120 W + 120 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Center :

80 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)
120 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Surround :

80 W + 80 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)
120 W + 120 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Surround back :

80 W + 80 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)
120 W + 120 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Output connectors : 4 - 16 Ω

❑ Analog section

Input sensitivity/Input impedance : 200 mV / 47 kΩ

Frequency response : 10 Hz - 100 kHz — +1, -3 dB (Direct mode)

S/N ratio : 98 dB (IHF-A, Direct mode)

❑ Video section

- **Color component video connector**

Input/output level and impedance : 1 Vp-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 E3)
FM 87.5 MHz - 108.0 MHz (for E2, E1C)
FM 76.0 MHz - 95.0 MHz (for JP)
AM 520 kHz - 1710 kHz (for E3)
AM 522 kHz - 1611 kHz (for E2, E1C)
AM 522 kHz - 1629 kHz (for JP)

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)
SRETEO — 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 E3)
1 - 13 ch (for E2, E1C, JP)

∗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 E3) : AC 120 V, 60 Hz
(for E2) : AC 230 V, 50 Hz / 60 Hz
(for E1C) : AC 220 V, 50 Hz
(for JP) : AC 100 V, 50 Hz / 60 Hz

Power consumption : 430 W

Power consumption in standby mode : 0.1 W

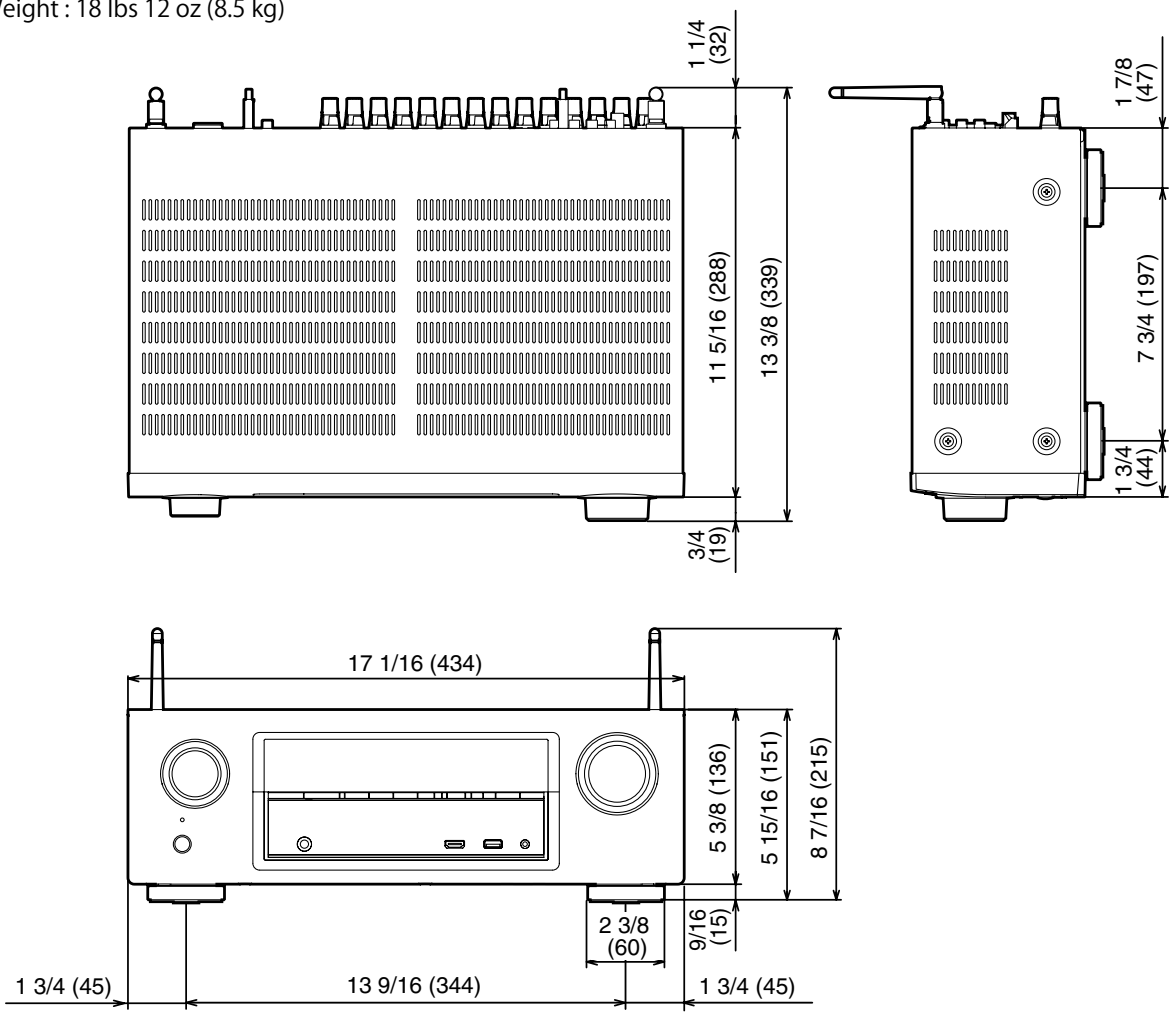
Power consumption in CEC standby mode : 0.5 W

Power consumption in network standby mode : 2.7 W

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

DIMENSION FOR AVR-X1200W

Unit : in. (mm)
Weight : 18 lbs 12 oz (8.5 kg)



TECHNICAL SPECIFICATIONS FOR AVR-S710W

❑ Audio section

- **Power amplifier**

Rated output :

Front :

75 W + 75 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)
110 W + 110 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Center :

75 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)
110 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Surround :

75 W + 75 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)
110 W + 110 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Surround back :

75 W + 75 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)
110 W + 110 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Output connectors : 4 - 16 Ω

❑ Analog section

Input sensitivity/Input impedance : 200 mV / 47 kΩ
Frequency response : 10 Hz - 100 kHz — +1, -3 dB (Direct mode)
S/N ratio : 98 dB (IHF-A, Direct mode)

❑ Video section

- **Color component video connector**

Input/output level and impedance : 1 Vp-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
AM 520 kHz - 1710 kHz

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)
SRETEO — 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

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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 : AC 120 V, 60 Hz

Power consumption : 400 W

Power consumption in standby mode : 0.1 W

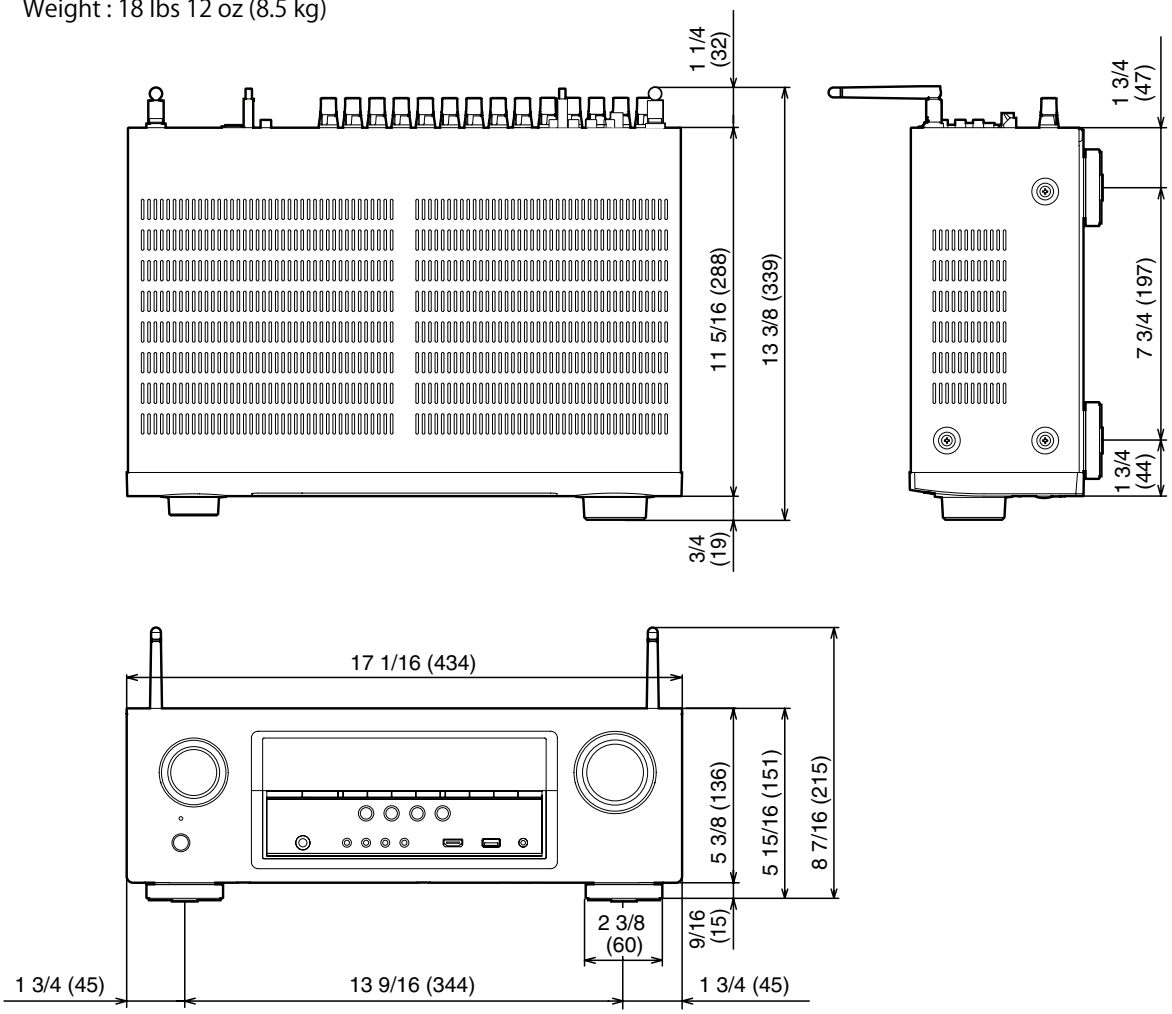
Power consumption in CEC standby mode : 0.5 W

Power consumption in network standby mode : 2.7 W

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

DIMENSION FOR AVR-S710W

Unit : in. (mm)
Weight : 18 lbs 12 oz (8.5 kg)



CAUTION IN SERVICING (AVR-X1200W)

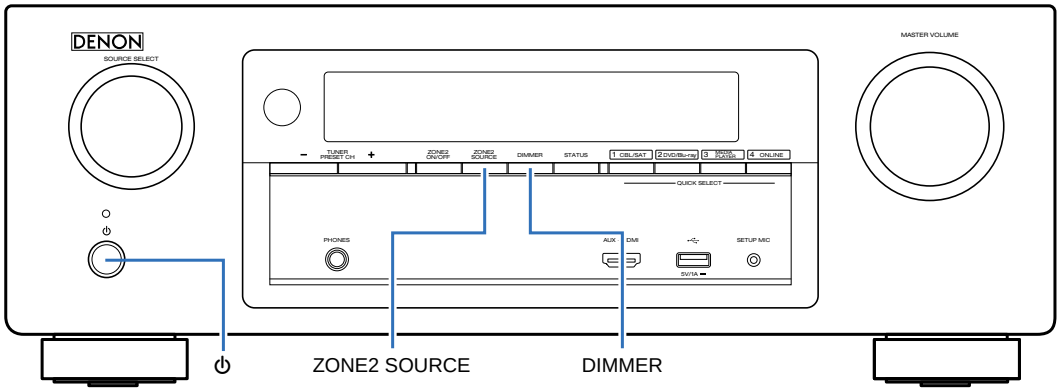
Initializing This Unit

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 "**ZONE2 SOURCE**" and "**DIMMER**" 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.

AVR-X1200W



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 : 1Sets
(See page 51)

CAUTION IN SERVICING (AVR-S710W)

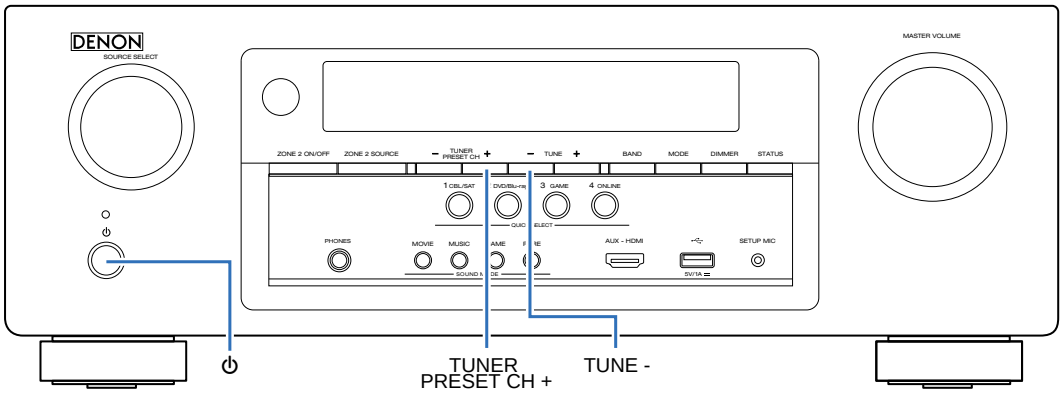
Initializing This Unit

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 "**TUNE -**" 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.

AVR-S710W



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Order with your dealer for the jigs your dealer if necessary.

8U-110084S : EXTENSION UNIT KIT : 1Sets
(See page 51)

DISASSEMBLY

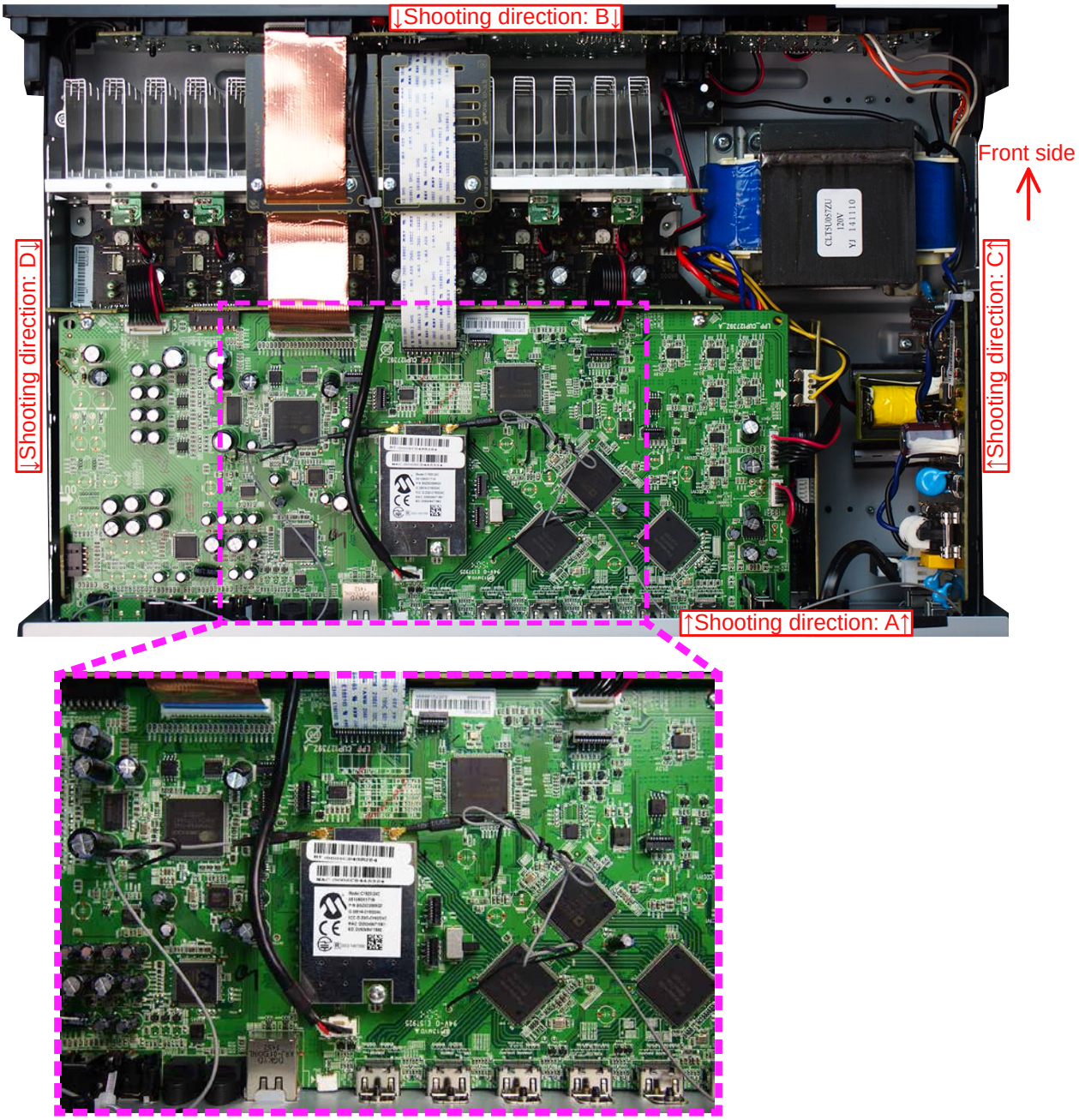
- Remove each part following the flow below.
- Reassemble the removed parts in the reverse order.
- Read "**Precautions During Work**" before reassembling the removed parts.
- If wire bundles are removed or moved during adjustment or part replacement, reshape the wires after completing the work. Failure 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 AVR-S710W E3 are used in this manual.

The viewpoint of each photograph

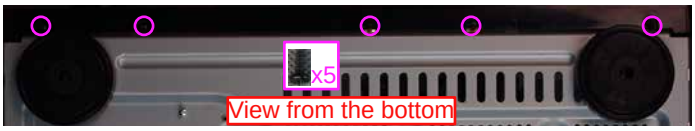
(Shooting direction : X) [View from the top]



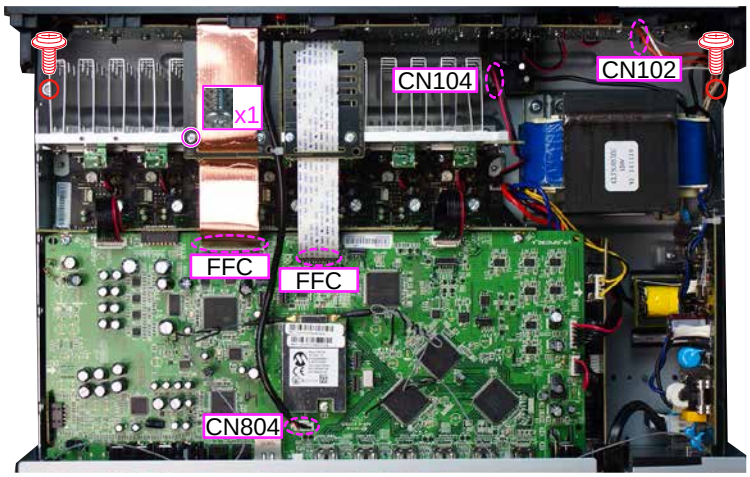
1. FRONT PANEL ASSY

Proceeding : TOP COVER → FRONT PANEL ASSY

(1) Remove the screws.



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

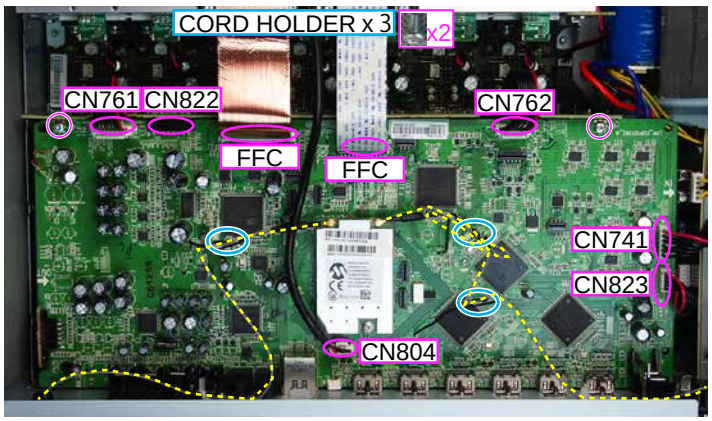


2. DIGITAL PCB

Proceeding : TOP COVER → DIGITAL PCB

(1) Remove the screws.

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

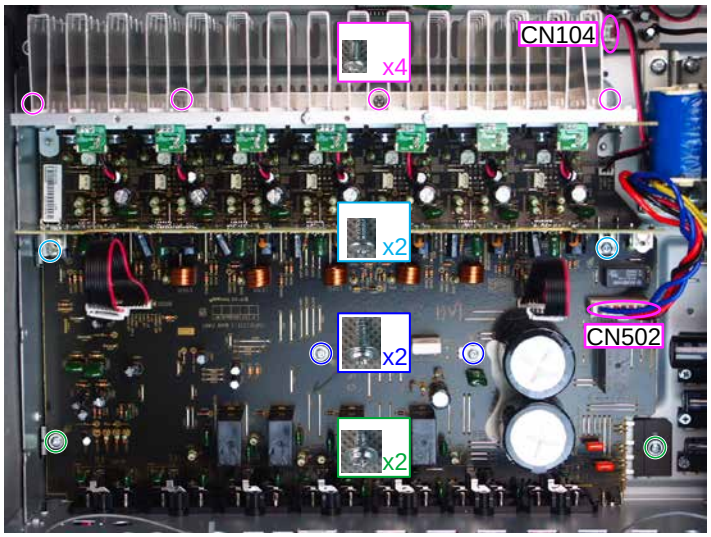


3. RADIATOR ASSY

Proceeding : TOP COVER → DIGITAL PCB → RADIATOR ASSY

(1) Remove the screws.

(2) Remove the screws.



4. POWER PCB

Proceeding : TOP COVER → POWER PCB

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

5. REGULATOR PCB

Proceeding : TOP COVER → REGULATOR PCB

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

6. TRANS POWER

Proceeding : TOP COVER → TRANS POWER

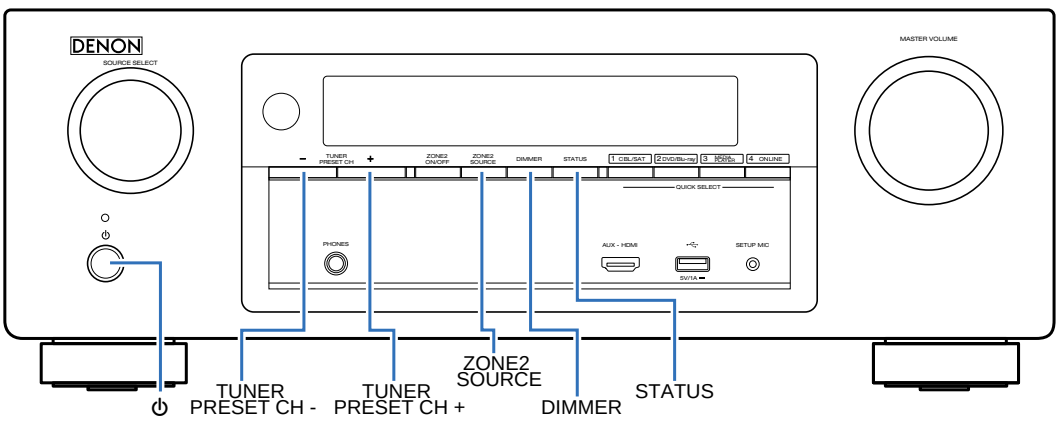
See "EXPLODED VIEW" for instructions on removing the transformer (TRANS).

SPECIAL MODE

Special mode setting button (for AVR-X1200W)

※ 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.

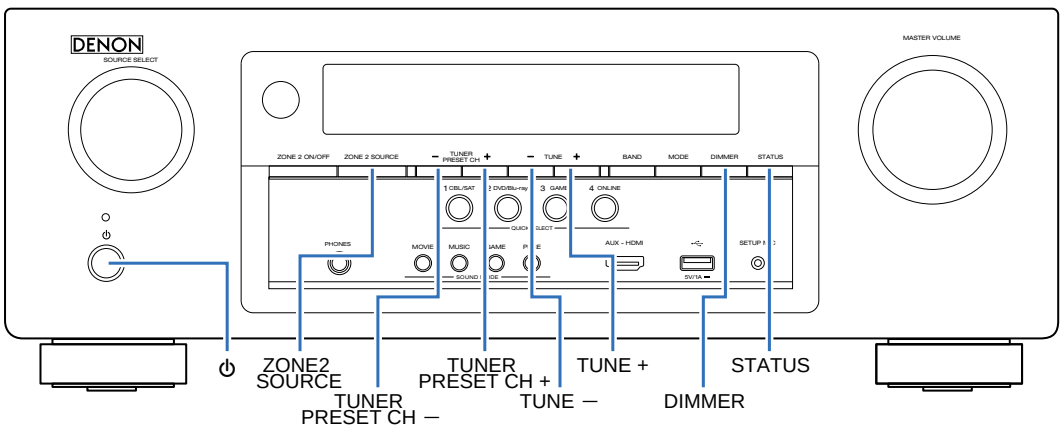
No.	Mode	Button A	Button B	Button C	Descriptions
1	Version Display (u-COM / DSP Error Display)	DIMMER	STATUS	-	Displays the version of firmware such as the main firmware or DSP. Errors that have occurred are displayed. (See page 21)
2	Selecting the Mode for Service-related	ZONE2 SOURCE	DIMMER	STATUS	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	TUNER PRESET CH +	-	-	Displays the protection occurrence history. (See page 44)
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 27)
2-3	Remote ID Setup Mode	↑	-	-	If there are multiple DENON AV receivers in the same area, this mode prevents other AV receivers from being operated concurrently with this device. (See page 48)
2-4	TUNER STEP Mode (E3 and E2 model only)	↑	-	-	Enables reception STEP of the ANALOG TUNER to be changed. (See page 47)
2-5	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 46)
3	User Initialization Mode	TUNER PRESET CH -	TUNER PRESET CH +	-	Initializes backup data. (Settings for the Installer Setup are not initialized.)
4	Factory Initialization Mode	ZONE2 SOURCE	DIMMER	-	Initializes backup data. (The settings for the Installer Setup is also initialized.)
5	PANEL / REMOTE LOCK Selection Mode	TUNER PRESET CH +	ZONE2 SOURCE	-	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 25)
6	Protection Pass Mode	TUNER PRESET CH +	ZONE2 SOURCE	STATUS	Enables the power to be turned on when protection detection is disabled. (See page 49)
7	CY920 Reboot Mode	TUNER PRESET CH -	TUNER PRESET CH +	-	The CY920 is restarted after CY920 hang up.
8	CY920 Initialization Mode	ZONE2 SOURCE	DIMMER	-	Enter this mode only after replacing Flash for CX870 / CY920 and rewriting the firmware.
9	USB Update Mode	ZONE2 SOURCE	TUNER PRESET CH -	-	Switches this unit to USB Update mode.
10	Forced USB All Device Write Mode	TUNER PRESET CH +	STATUS	-	Mode used when this unit cannot be recovered. Forcibly switches this unit to USB update mode. (See page 56)



Special mode setting button (for AVR-S710W)

※ 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 21)
2	Selecting the Mode for Service-related	TUNER PRESET CH +	TUNE -	TUNE +	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 44)
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 27)
2-3	Remote ID Setup Mode	↑	-	-	If there are multiple DENON AV receivers in the same area, this mode prevents other AV receivers from being operated concurrently with this device. (See page 48)
2-4	TUNER STEP Mode	↑	-	-	Enables reception STEP of the ANALOG TUNER to be changed. (See page 47)
2-5	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 46)
3	User Initialization Mode	TUNER PRESET CH -	TUNER PRESET CH +	-	Initializes backup data. (Settings for the Installer Setup are not initialized.)
4	Factory Initialization Mode	TUNER PRESET CH +	TUNE -	-	Initializes backup data. (The settings for the Installer Setup is also initialized.)
5	PANEL / REMOTE LOCK Selection Mode	ZONE2 SOURCE	TUNER PRESET CH +	-	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 25)
6	Protection Pass Mode	ZONE2 SOURCE	TUNER PRESET CH +	TUNE +	Enables the power to be turned on when protection detection is disabled. (See page 49)
7	CY920 Reboot Mode	TUNER PRESET CH -	TUNER PRESET CH +	-	The CY920 is restarted after CY920 hang up.
8	CY920 Initialization Mode	TUNER PRESET CH +	TUNE -	-	Enter this mode only after replacing Flash for CX870 / CY920 and rewriting the firmware.
9	USB Update Mode	ZONE2 SOURCE	TUNE +	-	Switches this unit to USB Update mode.
10	Forced USB All Device Write Mode	TUNE +	ZONE2 SOURCE	-	Mode used when this unit cannot be recovered. Forcibly switches this unit to USB update mode. (See page 56)



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

Error information("See **1.4. Error display**") → ① Model destination information → ② Firmware Package Version → ③ Main µ-com → ④ Main 1st Boot Loader → ⑤ DSP ROM → ⑥ Audio PLD → ⑦ Video PLD → ⑧ GUI SFLASH → ⑨ Ethernet 1st Boot Loader, Hardware ID → ⑩ Ethernet 2nd Boot Loader, Rhapsody Flag → ⑪ Ethernet IMAGE → ⑫ Ethernet MAC ADDRESS information → ⑬ BT MAC Address information

① Model destination information :

FLD	A	V	R	–	S	7	1	0	W		E	3				*
FLD	A	V	R	–	X	1	2	0	0	W		E	3			*
FLD	A	V	R	–	X	1	2	0	0	W		E	2			*
FLD	A	V	R	–	X	1	2	0	0	W		E	1	C		*
FLD	A	V	R	–	X	1	2	0	0	W		J	P			*

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 Video PLD

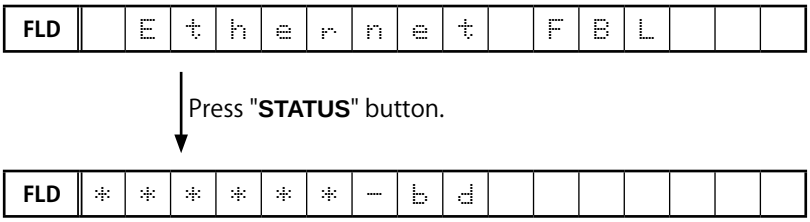
FLD		V	i	d	e	o		P	L	D	:	*	*	.	*	*

⑧ GUI SFLASH :

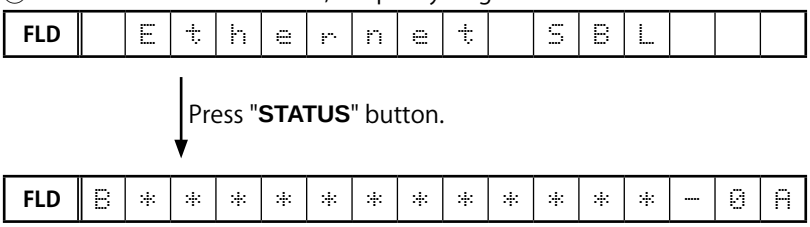
FLD		G	U	I				:	@	@	$	\	*	*	*	*

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

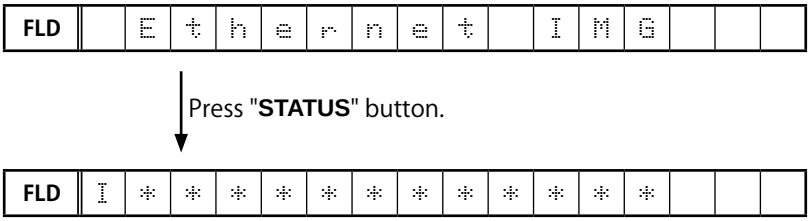
⑨ Ethernet 1st Boot Loader, Hardware ID :



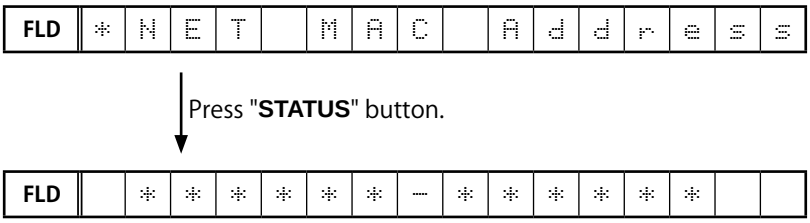
⑩ Ethernet 2nd Boot Loader, Rhapsody Flag :



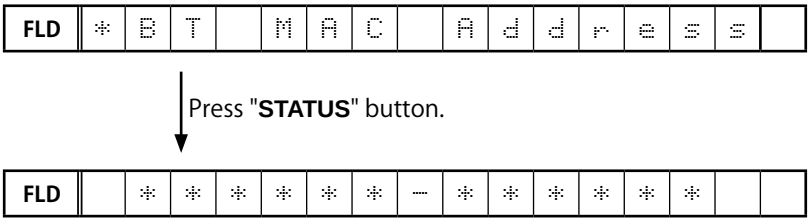
⑪ Ethernet IMAGE :



⑫ Ethernet MAC ADDRESS information：



⑬ BT MAC ADDRESS information：



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).	FIRM ERROR ▲Main :******* ▲DSP :***.*** ▲Audio PLD:***.*** ▼GUI :*******	•Check the resistor for setting the region(R7581 / 7582 DIGITAL 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 (ADV8003),	GUI VER. ERROR	•Check the firmware version.
③ DIR NG	This error is displayed if there is no response from the DIR.	DIR ERROR 01	•Check the DIR (U1040, HDMI PCB) and surrounding circuits.
④ DSP NG	The DSP FLAG0 port does not enter "**Hi**" status while booting a DSP code even after resetting DSP.	DSP ERROR 01	•Check the DSP (IC781, DIGITAL PCB) and surrounding circuits.
	The DSP FLAG0 port does not enter "**Hi**" status before issuing a DSP command.	DSP ERROR 02	
	Setting WRITE to "**Lo**" does not set ACK to "**Hi**" during DSP data reading.	DSP ERROR 03	
	Setting REQ to "**Lo**" does not set ACK to "**Lo**" during DSP data reading.	DSP ERROR 04	
	Setting WRITE to "**Hi**" does not set ACK to "**Hi**" during DSP data writing.	DSP ERROR 05	
	Setting REQ to "**Lo**" does not set ACK to "**Lo**" during DSP data writing.	DSP ERROR 06	
⑤ EEPROM NG	An error occurred in a checksum of the EEPROM(*** is a block address number).	E2PROM ERR***	

1.5. Version Display in the Setup Menu

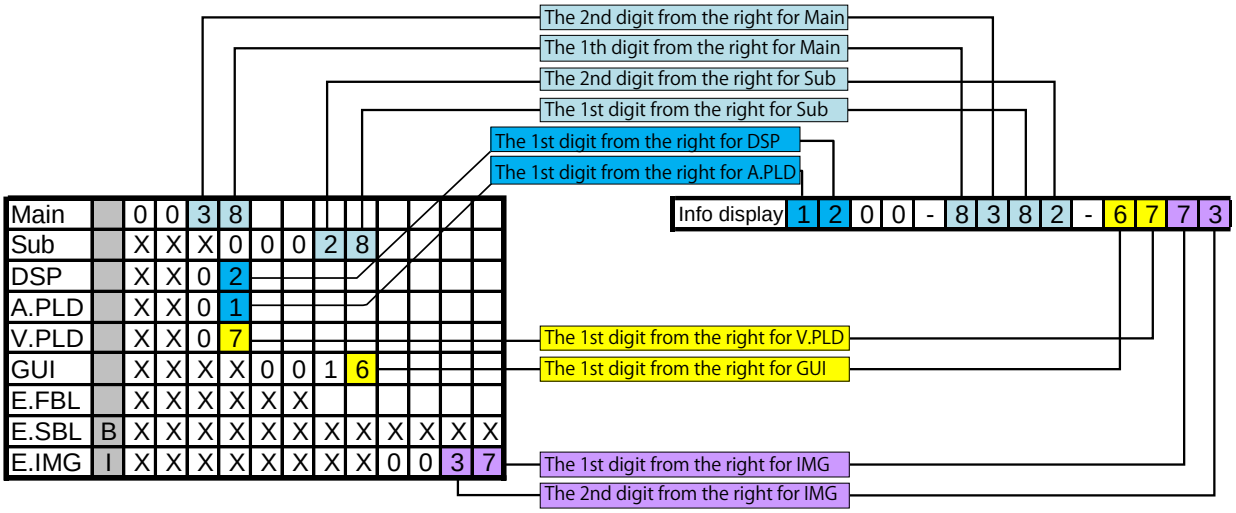
Follow the steps below to display the firmware information.

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

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

GUI Image

This 12-digit number comprises 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.

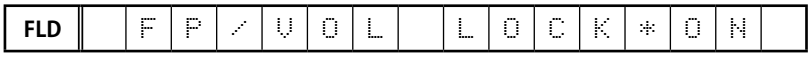
2.2. Starting up

While holding down buttons "**TUNER PRESET CH+**" and "**ZONE2 SOURCE**" 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

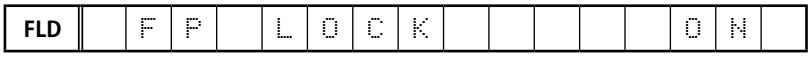
The information shown on the display switches each time the "**TUNER PRESET CH+**" button is pressed.
Press the "**STATUS**" button to set the currently displayed mode and restart the device.
The setting with "*" is selected for each mode.

①



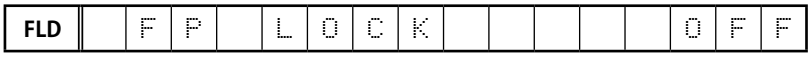
The buttons on the unit and the master volume knob does not function.

②



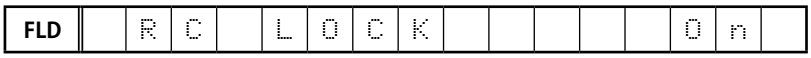
The buttons on the unit does not function.

③



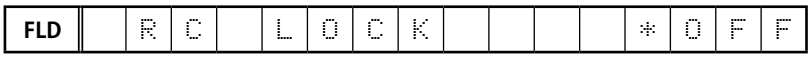
The PANEL LOCK mode is turned off.

④



The device cannot be operated by the remote control.

⑤



The REMOTE LOCK mode is turned off.

3. Selecting the Mode for Service-related Operations

3.1. Actions

Select diagnostic mode (service path check mode), protection history display mode.

3.2. Starting up

AVR-X1200W

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

AVR-S710W

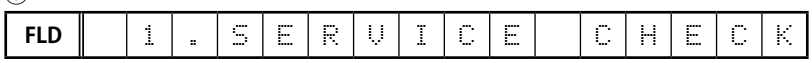
2. While holding down buttons "**TUNER PRESET CH+**", "**TUNE -**" and "**TUNE +**" simultaneously, press the power button to turn on the power.

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.

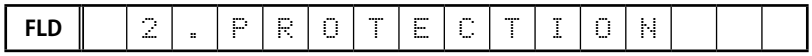
①



Service Path Check Mode：

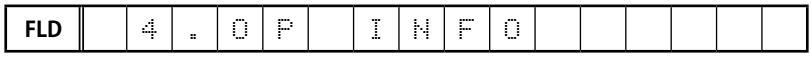
The Video and Audio paths can be checked.
This function is convenient for confirming problem paths in the product and checking the paths after repairing.

②



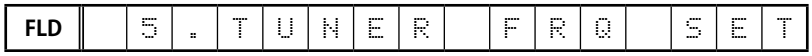
The protection history can be checked.

③



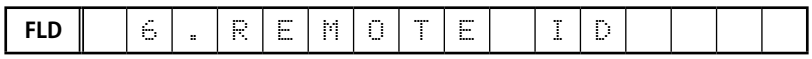
Operation Info for the unit can be checked.

④



Enables reception STEP of the ANALOG TUNER to be changed.

⑤



This function is for operating only the desired AV receiver.

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

AVR-X1200W
While holding down buttons "**ZONE2 SOURCE**", "**DIMMER**" and "**STATUS**" simultaneously, press the power button to turn on the power.
AVR-S710W
While holding down buttons "**TUNER PRESET CH +**", "**TUNE -**" and "**TUNE +**" 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.

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

3.4.5. Audio system confirmation items

See the block diagram fig.XXth.

	Paths to be confirmed	Display	Settings	What to confirm
1	Analog **fig.01**	A01:ANALOG PASS	Input Source : CBL/SAT Input Mode : Analog (fixed) Sound mode : DIRECT Amp assign : Surround Back MAIN ZONE : ON ZONE2 : OFF	・Analog input ⇒ Speaker output (Front L/R) (※ The input source can be switched to any source except CBL/SAT.)
2	DIGITAL (MAIN) **fig.02a** **fig.02b**	A02:DIGITAL	Input Source : CBL/SAT Input Mode : DIGITAL (fixed) Sound mode : MULTI CH STEREO Amp assign : Surround Back Speaker Config ALLSpeaker = Small/SW=Yes(2ch) MAIN ZONE ON ZONE2 OFF	・Digital input ⇒ Speaker output (Front L/R, Center, Surround L/R, Surround Back L/R) ・Digital input ⇒ Pre output (Front L/R, Center, Surround L/R, Surround Back L/R, Subwoofer) (※ The input source can be switched to any source except CBL/SAT.)
3	DIGITAL (ZONE2) **fig.03a** **fig.03b**	A03:DIGITAL-Z2	Input Source : NETWORK Input Mode : Auto Sound mode : STEREO Amp assign : ZONE2 MAIN ZONE : ON ZONE2 : ON	・Digital(PCM) input ⇒ Speaker output (Surround Back (ZONE2) L/R) ・Digital(PCM) input ⇒ Pre OUT output (ZONE2 L/R) (AVR-X1200 only)
4	HDMI **fig.04a** **fig.04b**	A05:HDMI	Input Source : CBL/SAT Input Mode : HDMI (fixed) Sound mode : STEREO Amp assign : Surround Back MAIN ZONE : ON ZONE2 : OFF	・HDMI input ⇒ Speaker output (Front L/R) (※ The input source can be switched to any source except CBL/SAT.)
5	Analog AD (MAIN) **fig.05a** **fig.05b**	A06:AD	Input Source : CBL/SAT Input Mode : Analog (fixed) Sound mode : MULTI CH STEREO Vol-60dB Amp assign : Surround Back Speaker Config ALL Speaker = Small / SW = Yes(2ch) MAIN ZONE : ON ZONE2 : OFF	・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)

	Paths to be confirmed	Display	Settings	What to confirm
6	Analog Amp Assign (Amp Assign : ZONE2) **fig.06**	A07:ASSIGN-Z2	Input Source : CBL/SAT Input Mode : Auto Sound mode : STEREO Z2 Source : Source Vol -60dB Amp assign : ZONE2 MAIN ZONE : ON ZONE2 : ON	• Analog input ⇒ Speaker output (Surround Back (ZONE2) L/R) • Analog input ⇒ Pre OUT output (ZONE2 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)

3.4.6. 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 **fig.07**	V01:VIDEO PASS	Input Source : CBL/SAT Video Convert (IP Scaler) : OFF, All sources MAIN ZONE ON ZONE2 ON	• Component input ⇒ Component output (S710 / X1200E3 ONLY) (※ The input source can be switched to any source except CBL/SAT.)
2	HDMI pass (MAIN ZONE) **fig.08**	V03:HDMI PASS	Input Source : CBL/SAT Video Convert (IP Scaler) : OFF, All sources MAIN ZONE ON ZONE2 OFF	• 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) **fig.09**	V04:HDMI CEC	Input Source : CBL/SAT HDMI Control : ON Control Monitor : Monitor1 (if checking the HDMI Monitor Out1) MAIN ZONE ON ZONE2 OFF	• When the power supply of a TV is put in the standby mode, make sure that the power supply of this unit is also put in the standby mode. (※ The 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) **fig.04**	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) **fig.10**	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 **fig.11**	V07:GUI MENU ON	Input Source : CBL/SAT Video Convert(IP Scaler) : ON, All sources IP Scaler : "Analog & HDMI", All sources Resolution : "AUTO", All sources Setup Menu : ON MAIN ZONE ON ZONE2 OFF	• GUI display ⇒ HDMI output. (※ The input source can be switched to any source except CBL/SAT.)

DIAGNOSTIC PATH DIAGRAM

fig.01

AVRS710W/X1200W ANALOG AUDIO BLOCK

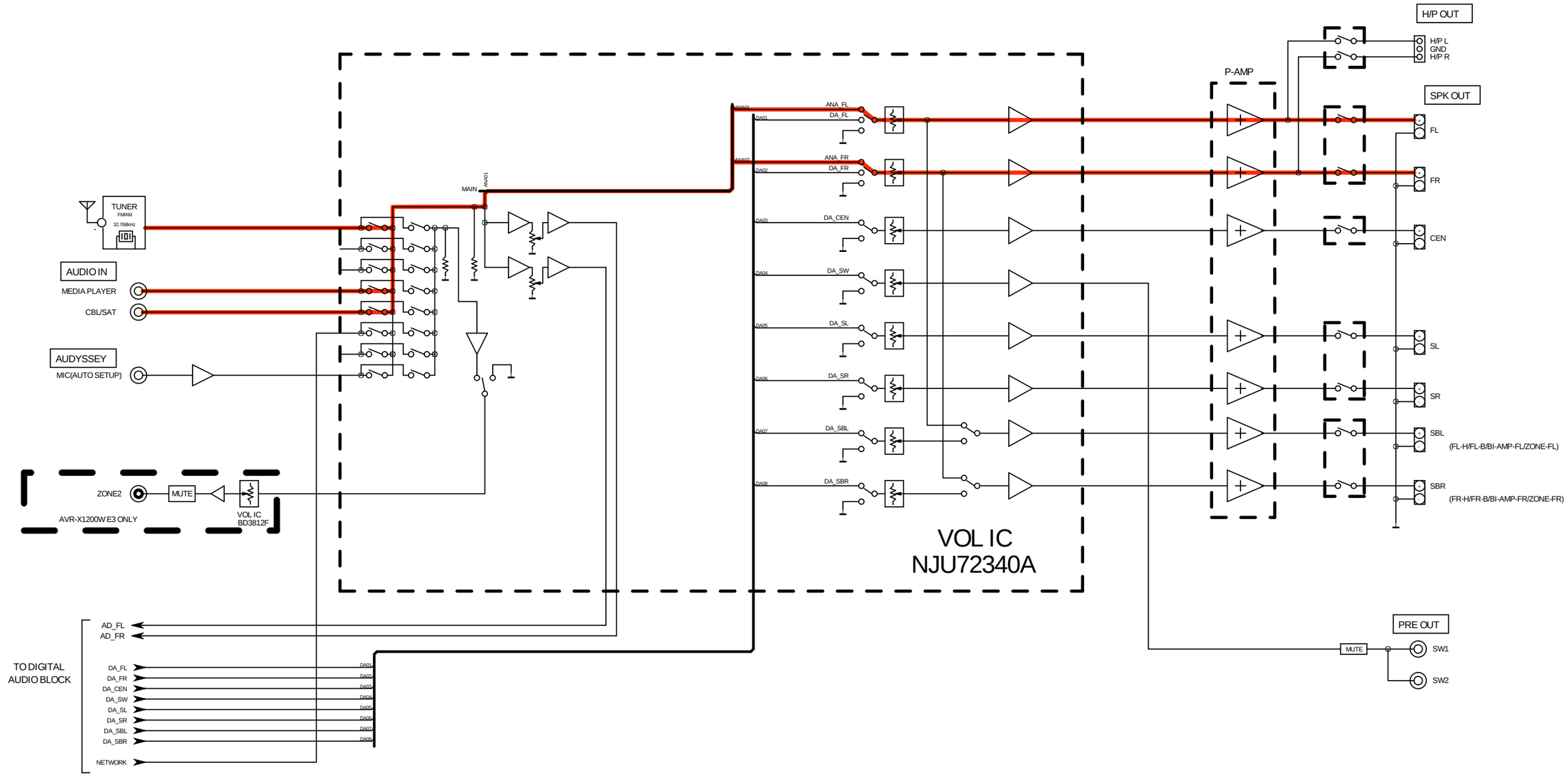


fig.02a

AVRS710W/X1200W DIGITAL AUDIO BLOCK

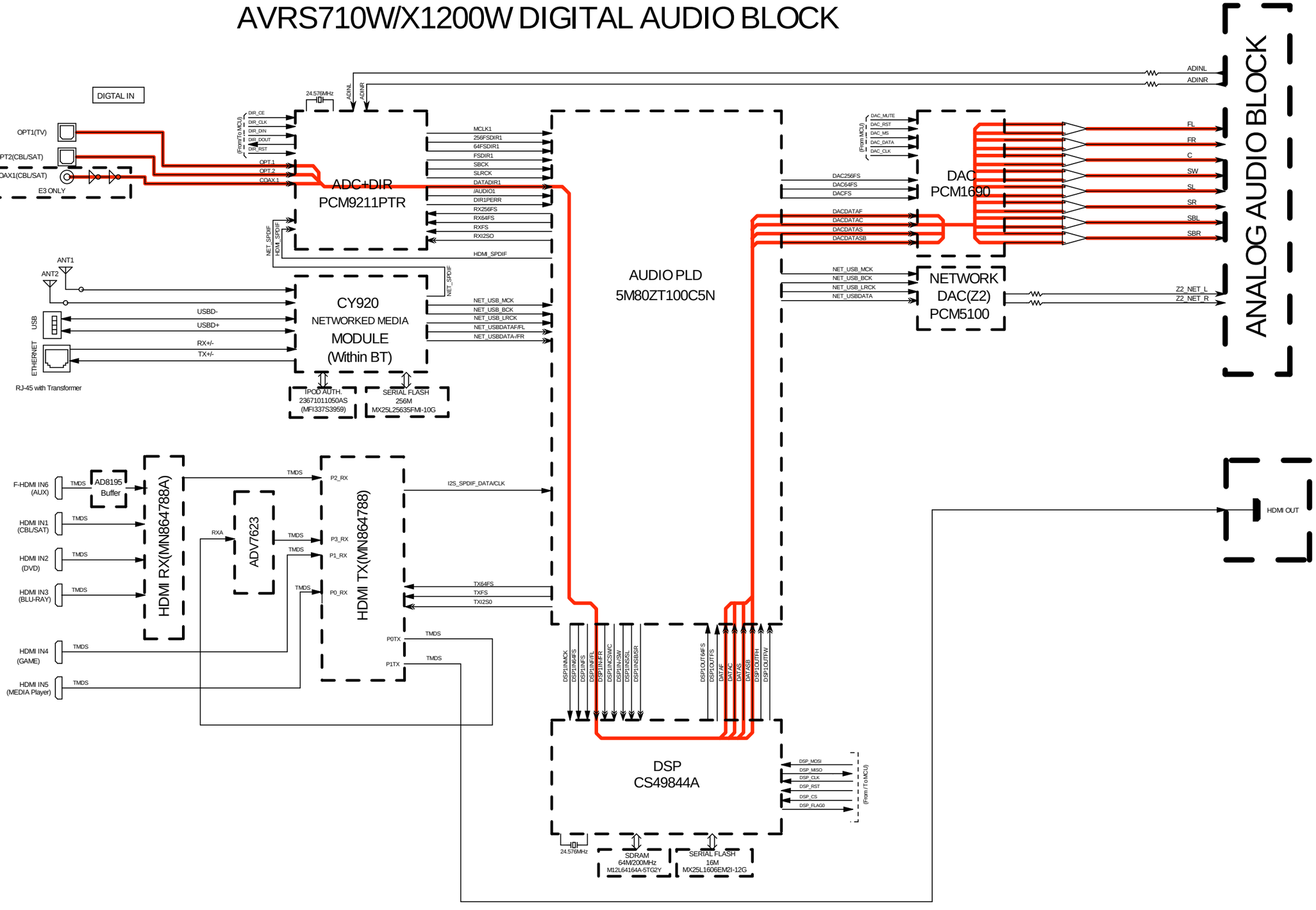


fig.02b

AVRS710W/X1200W ANALOG AUDIO BLOCK

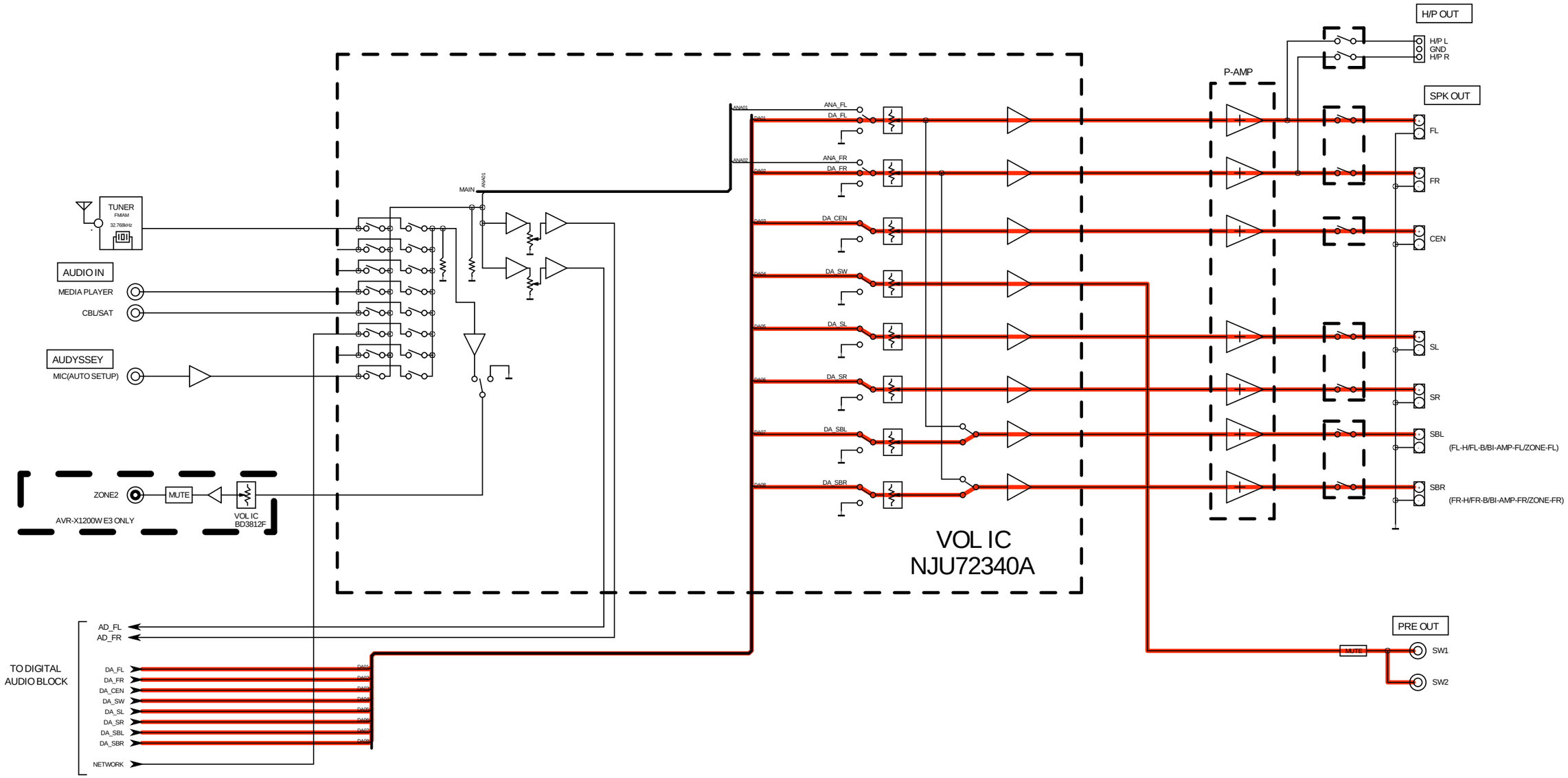


fig.03a

AVRS710W/X1200W DIGITAL AUDIO BLOCK

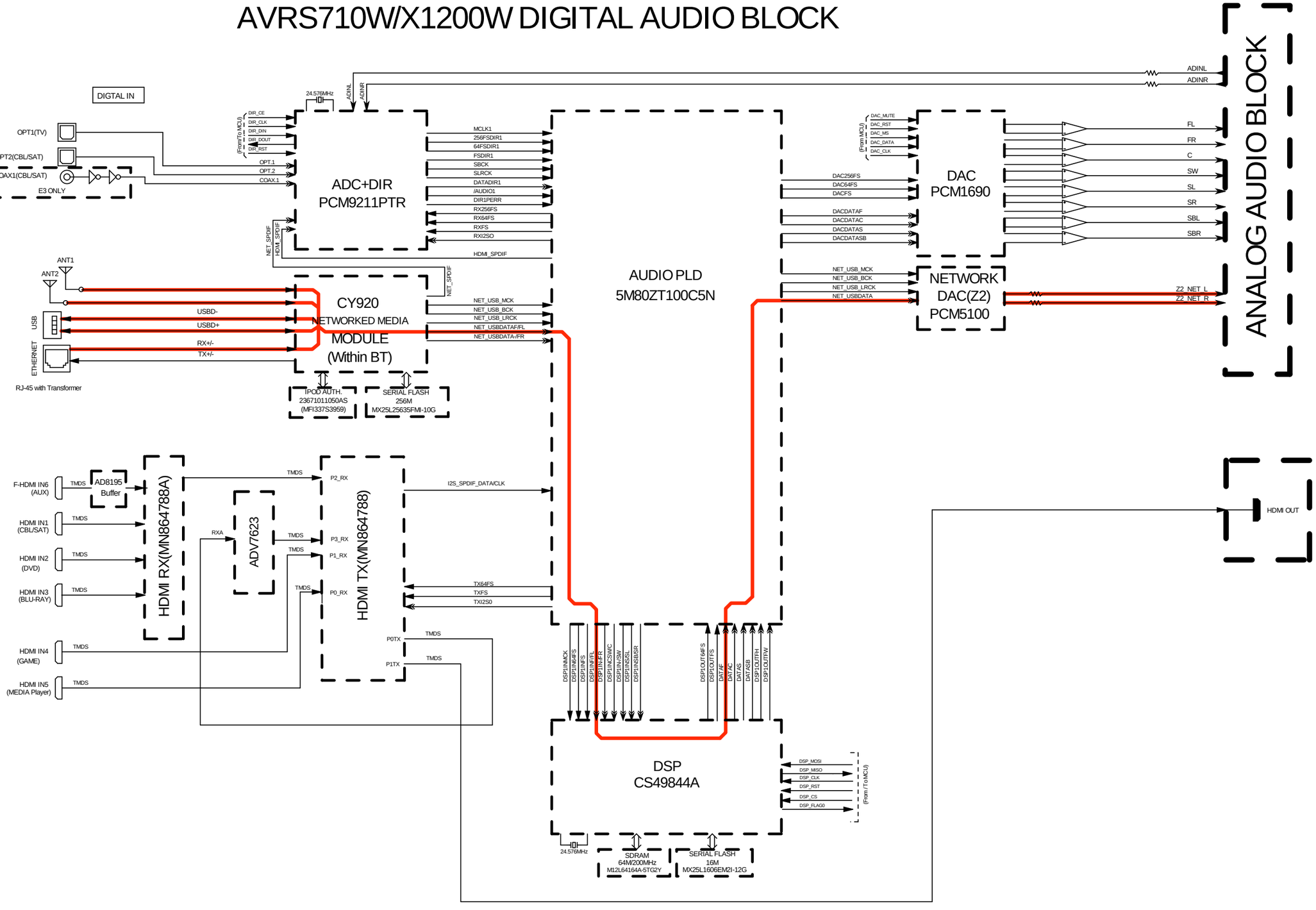


fig.03b

AVRS710W/X1200W ANALOG AUDIO BLOCK

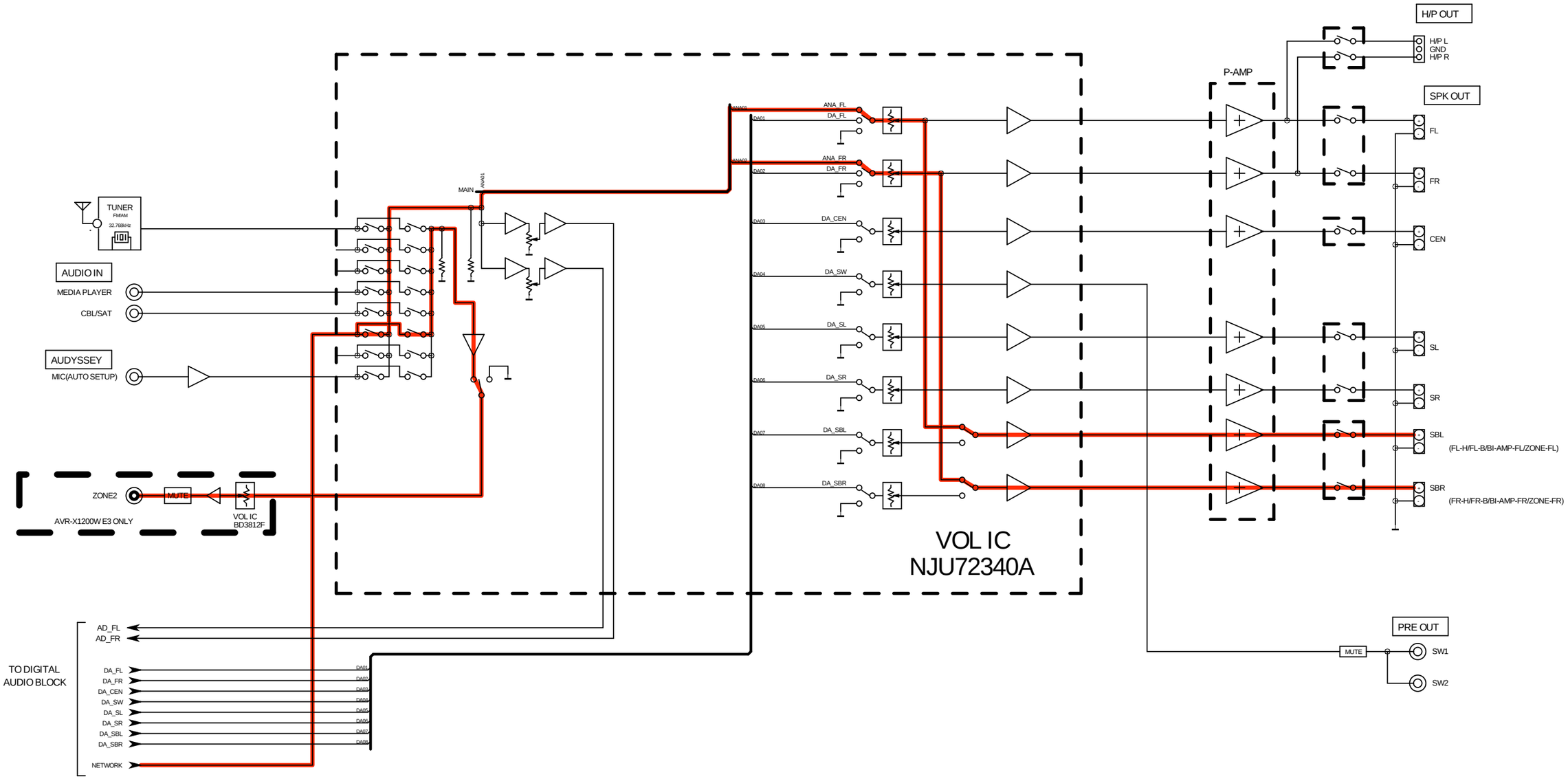


fig.04a

AVRS710W/X1200W DIGITAL AUDIO BLOCK

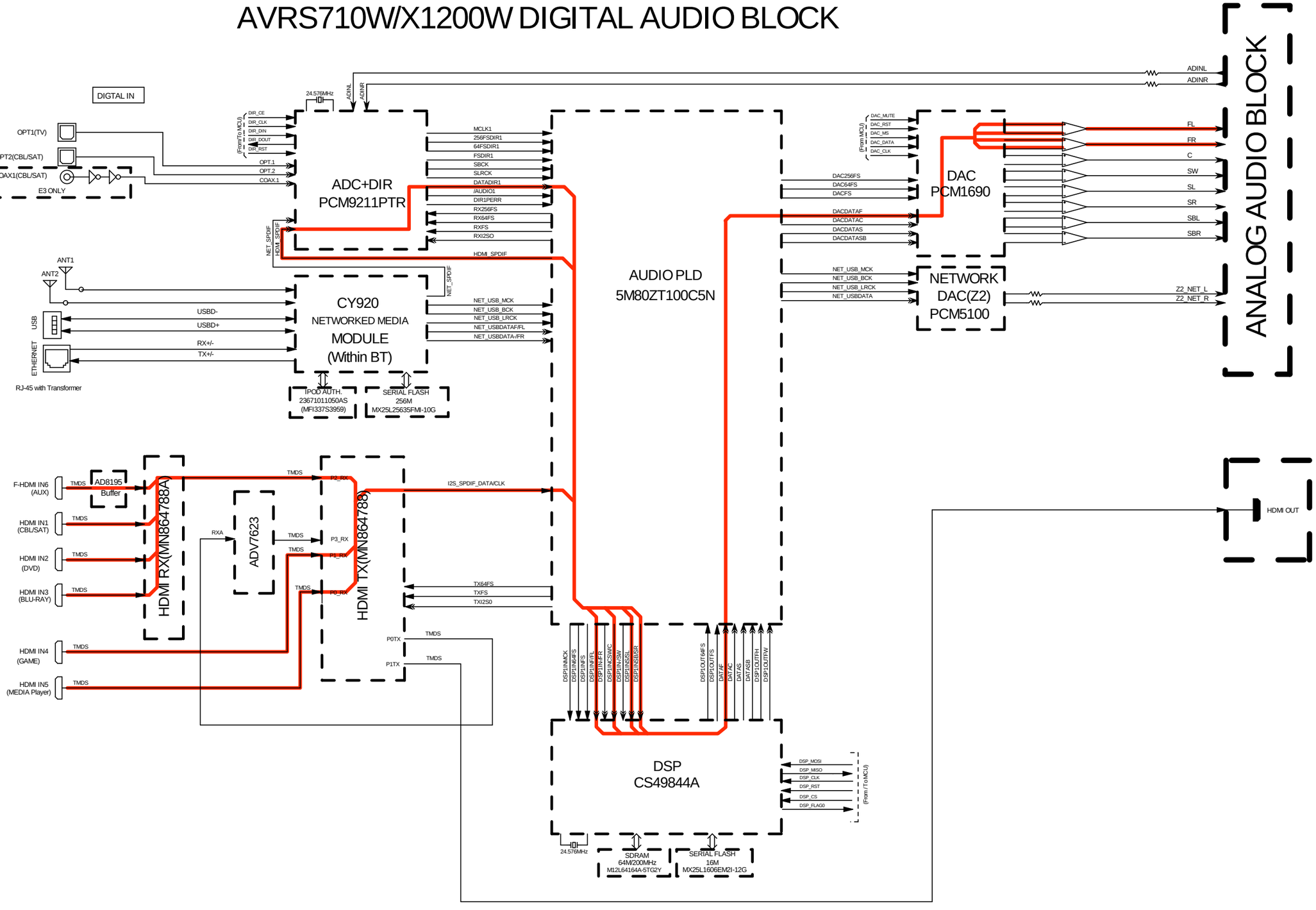


fig.04b

AVRS710W/X1200W ANALOG AUDIO BLOCK

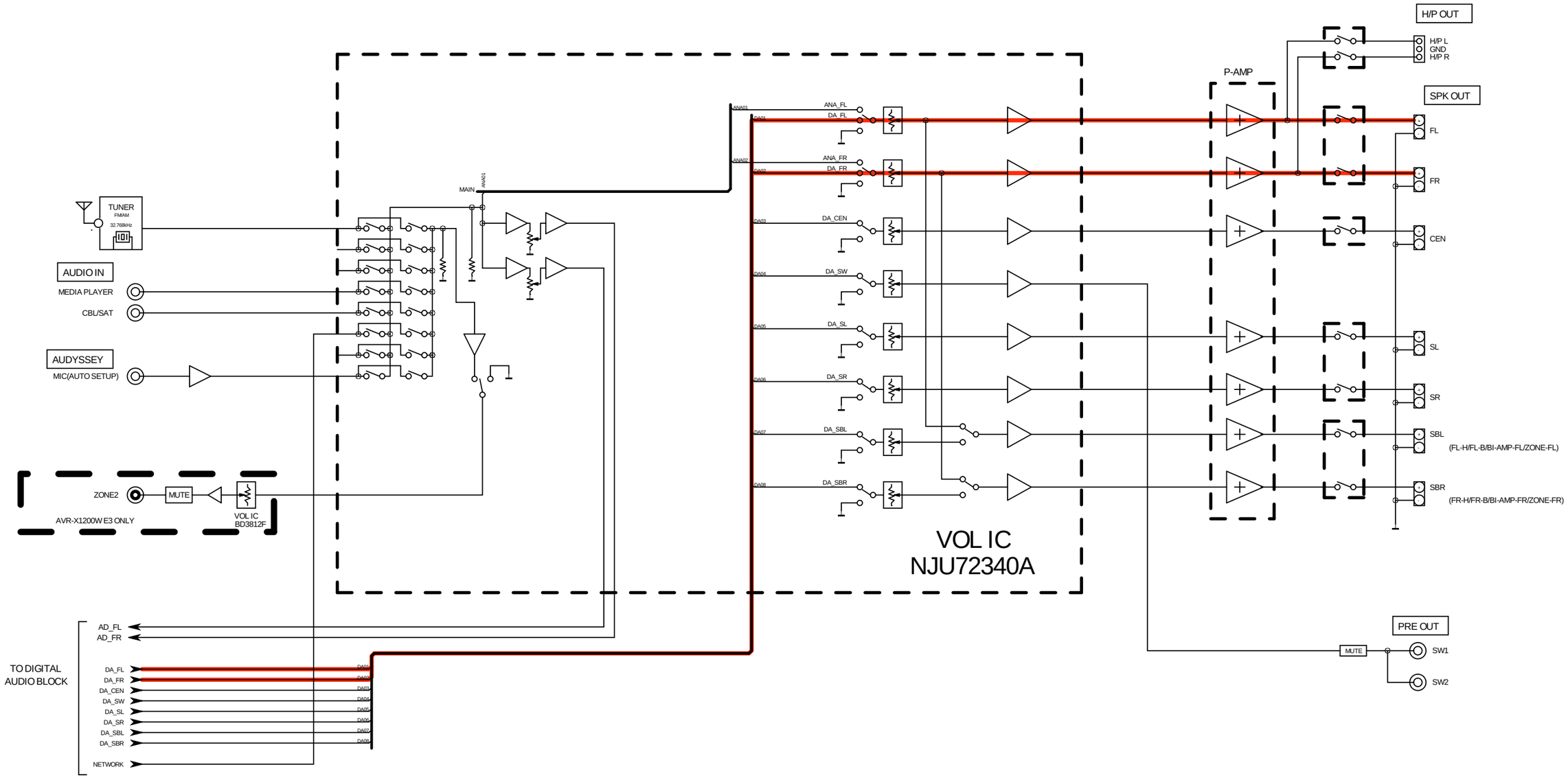


fig.05a

AVRS710W/X1200W DIGITAL AUDIO BLOCK

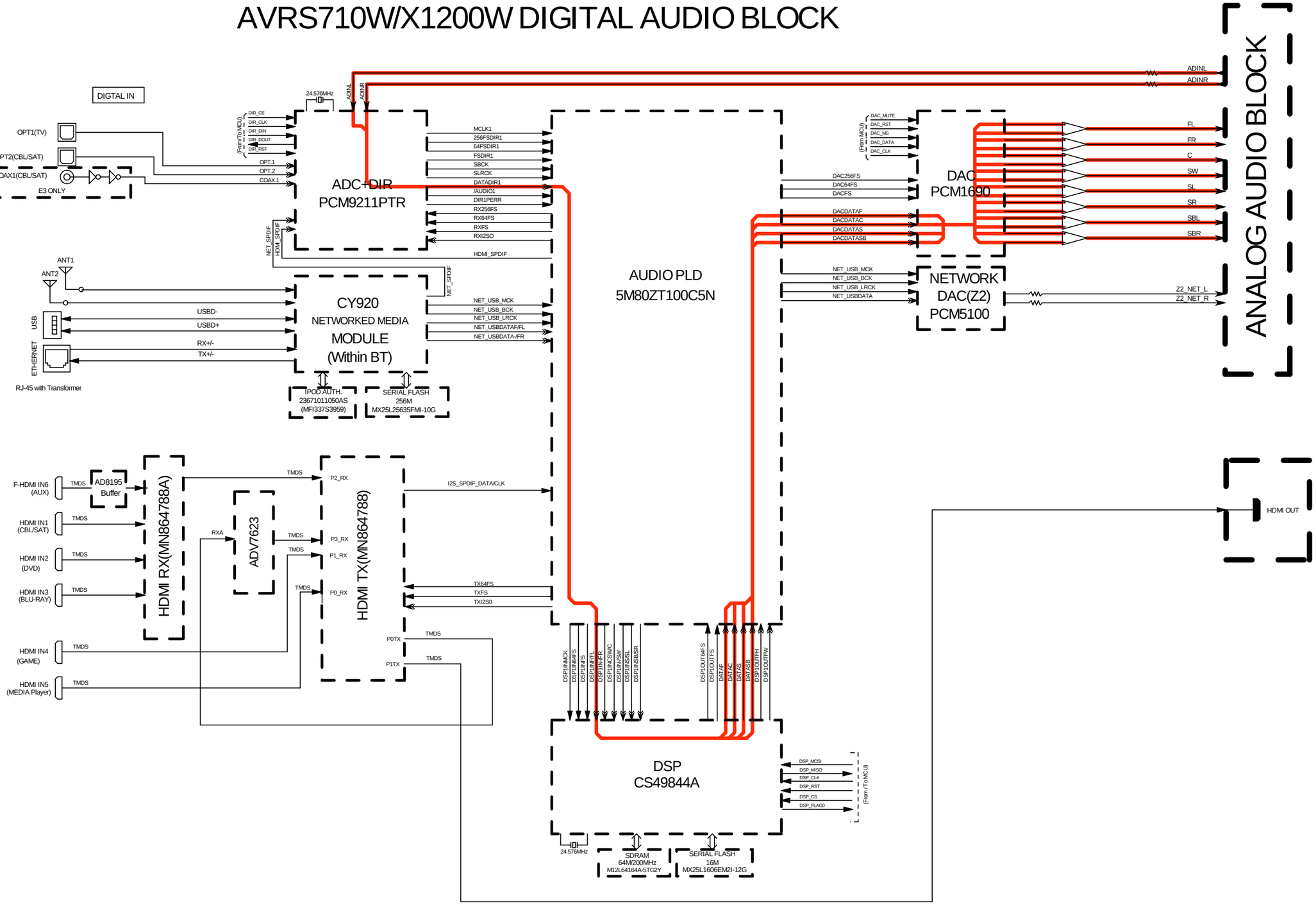


fig.05b

AVRS710W/X1200W ANALOG AUDIO BLOCK

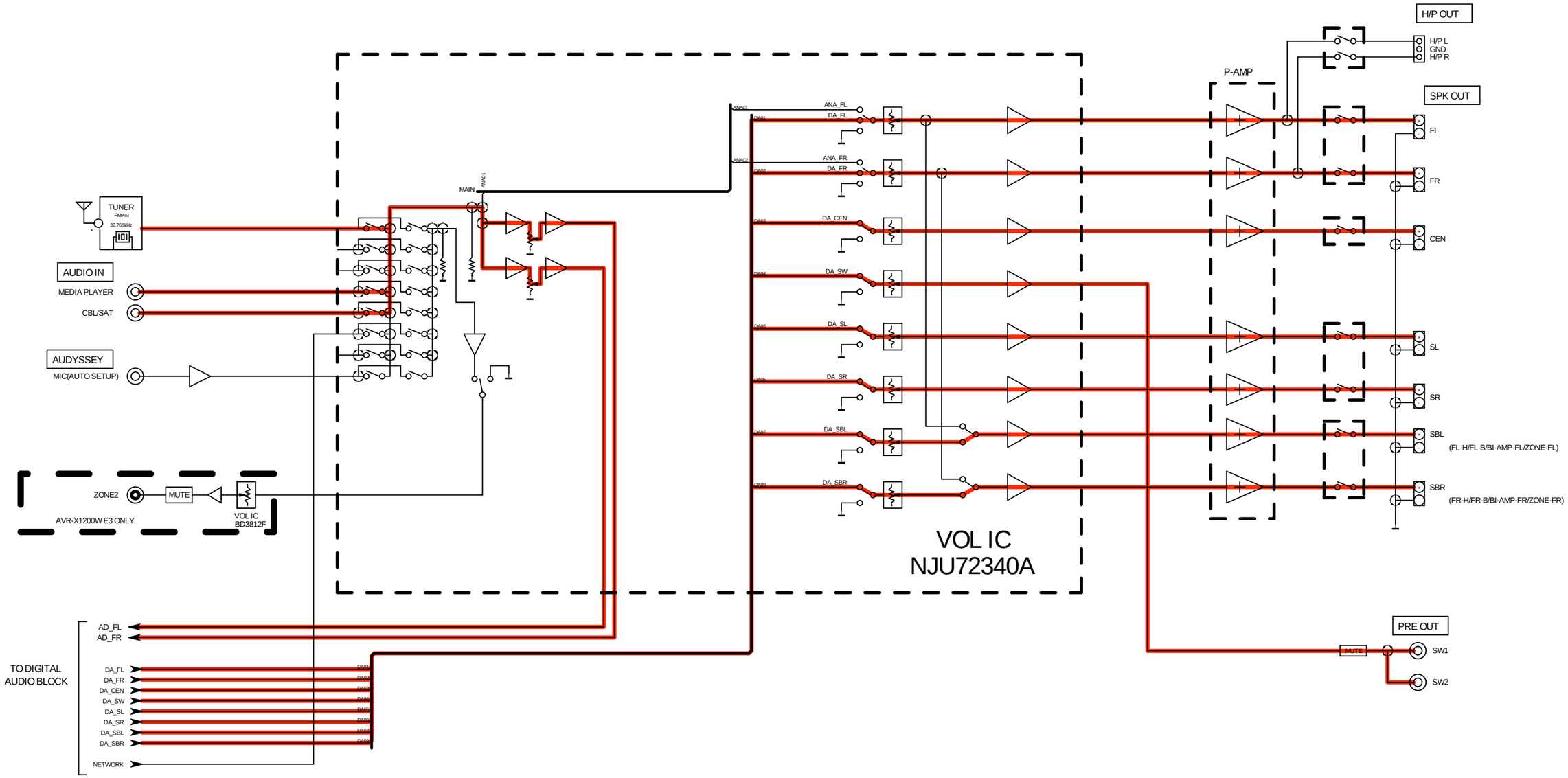


fig.06

AVRS710W/X1200W ANALOG AUDIO BLOCK

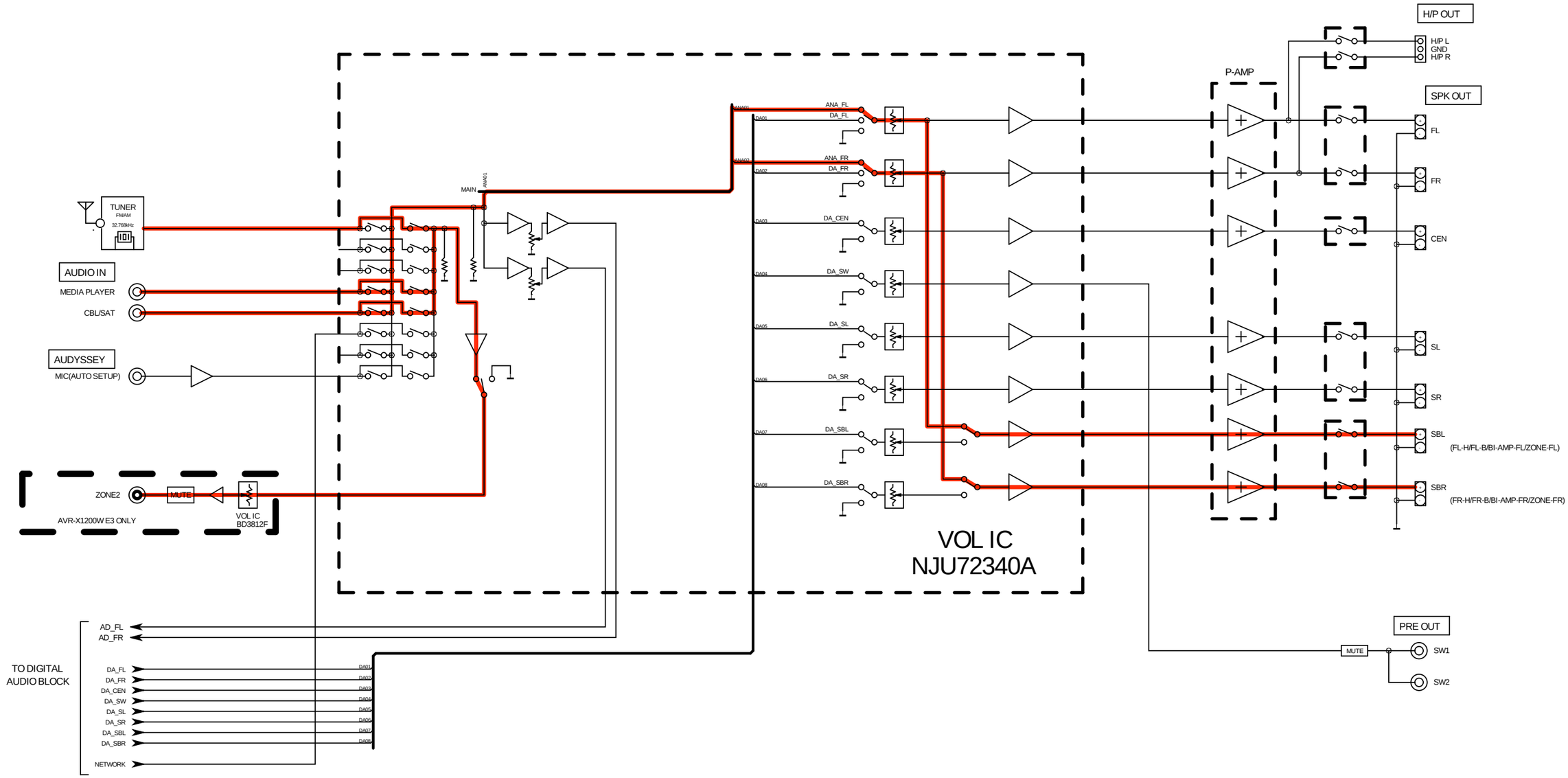


fig.07

AVRS710W/X1200W VIDEO BLOCK

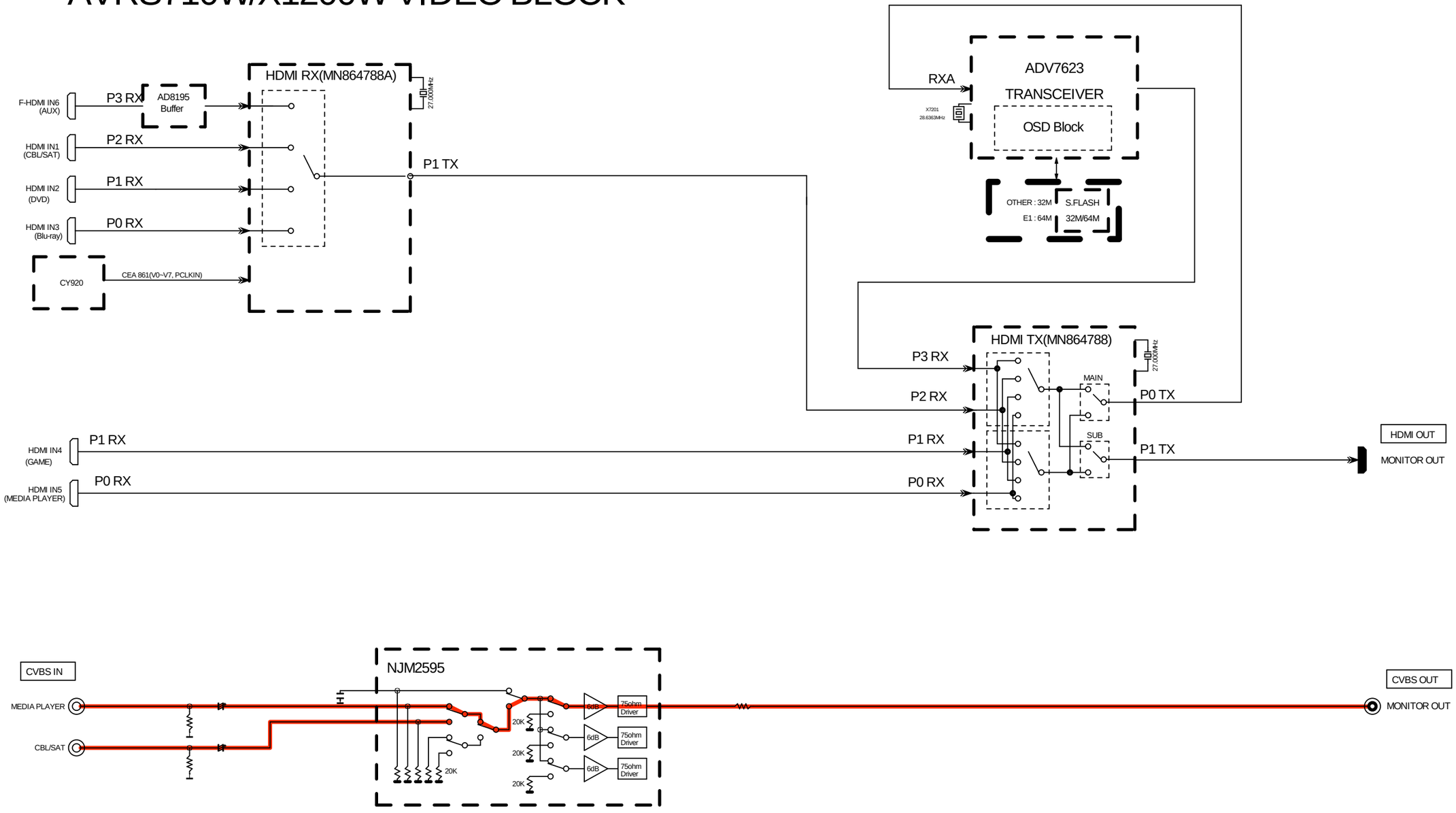


fig.08

AVRS710W/X1200W VIDEO BLOCK

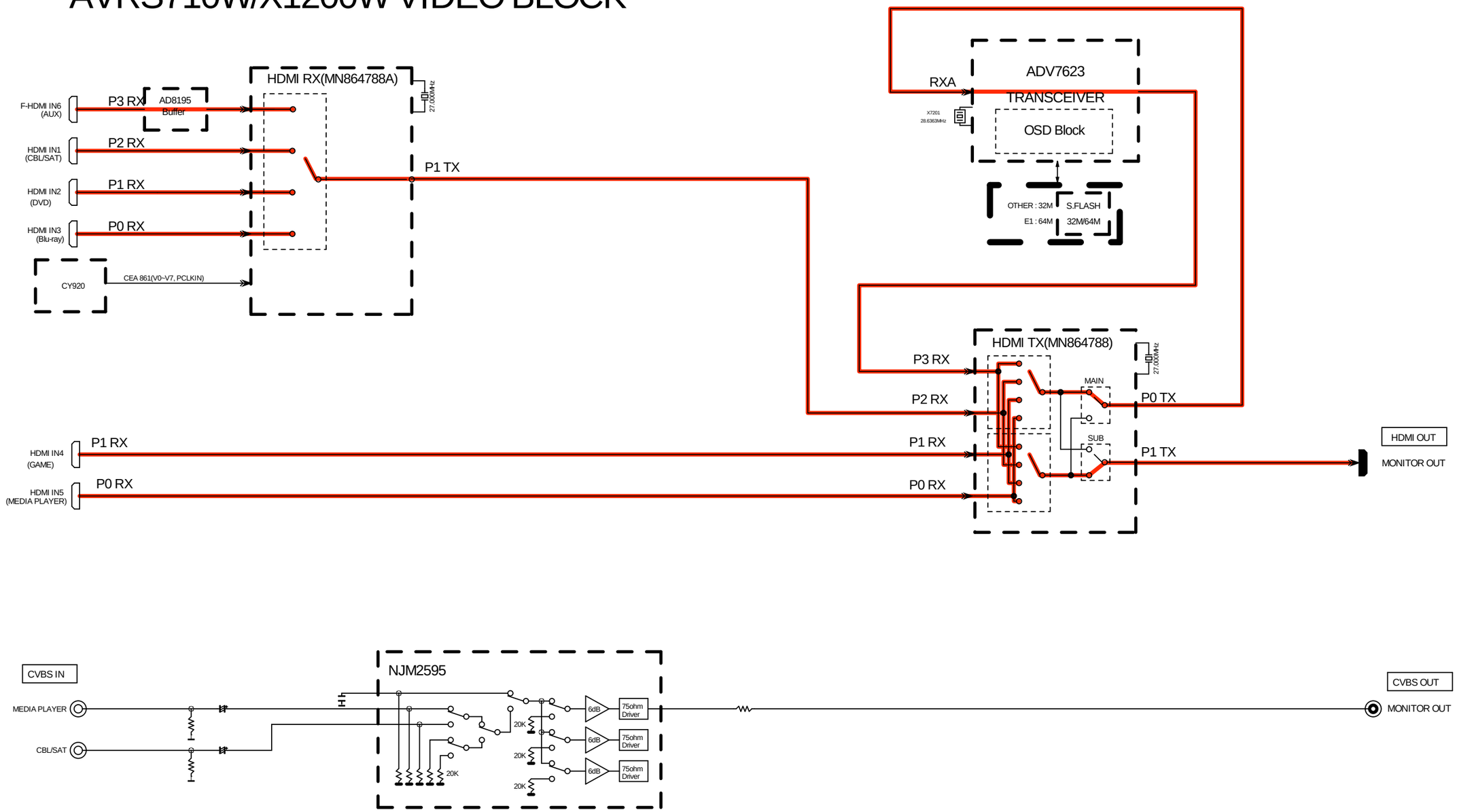


fig.09

AVRS710W/X1200W VIDEO BLOCK

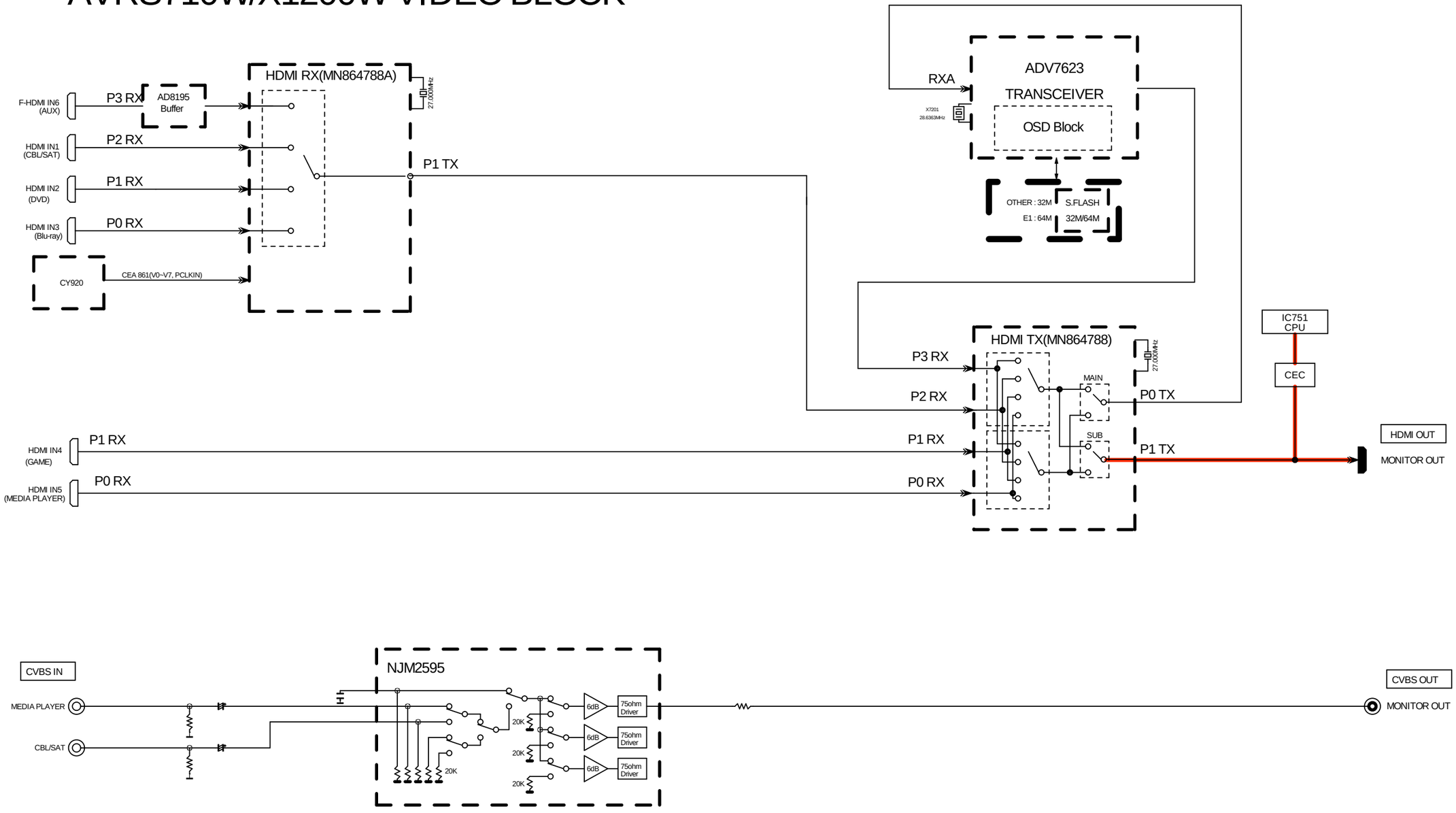


fig.10

AVRS710W/X1200W DIGITAL AUDIO BLOCK

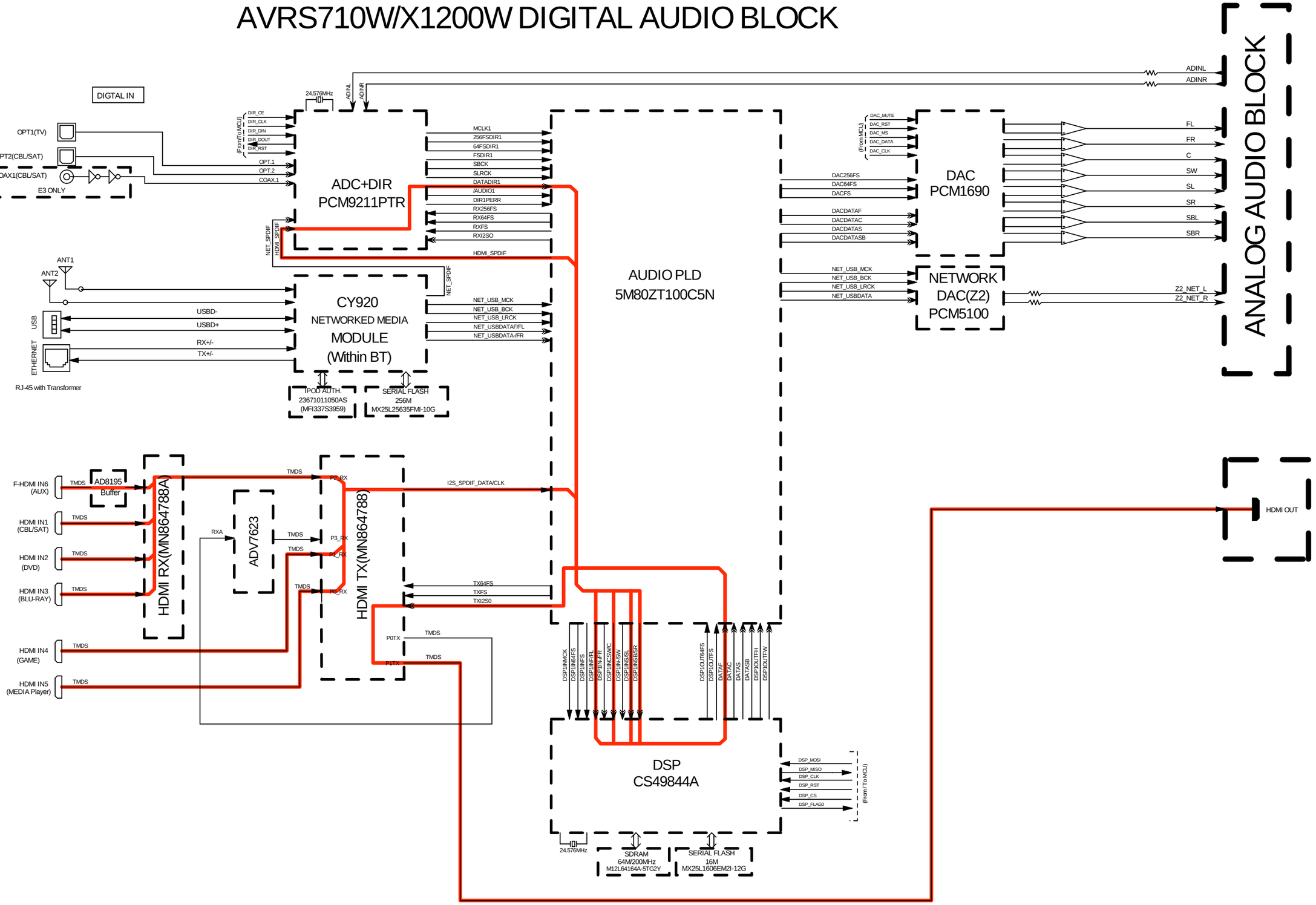
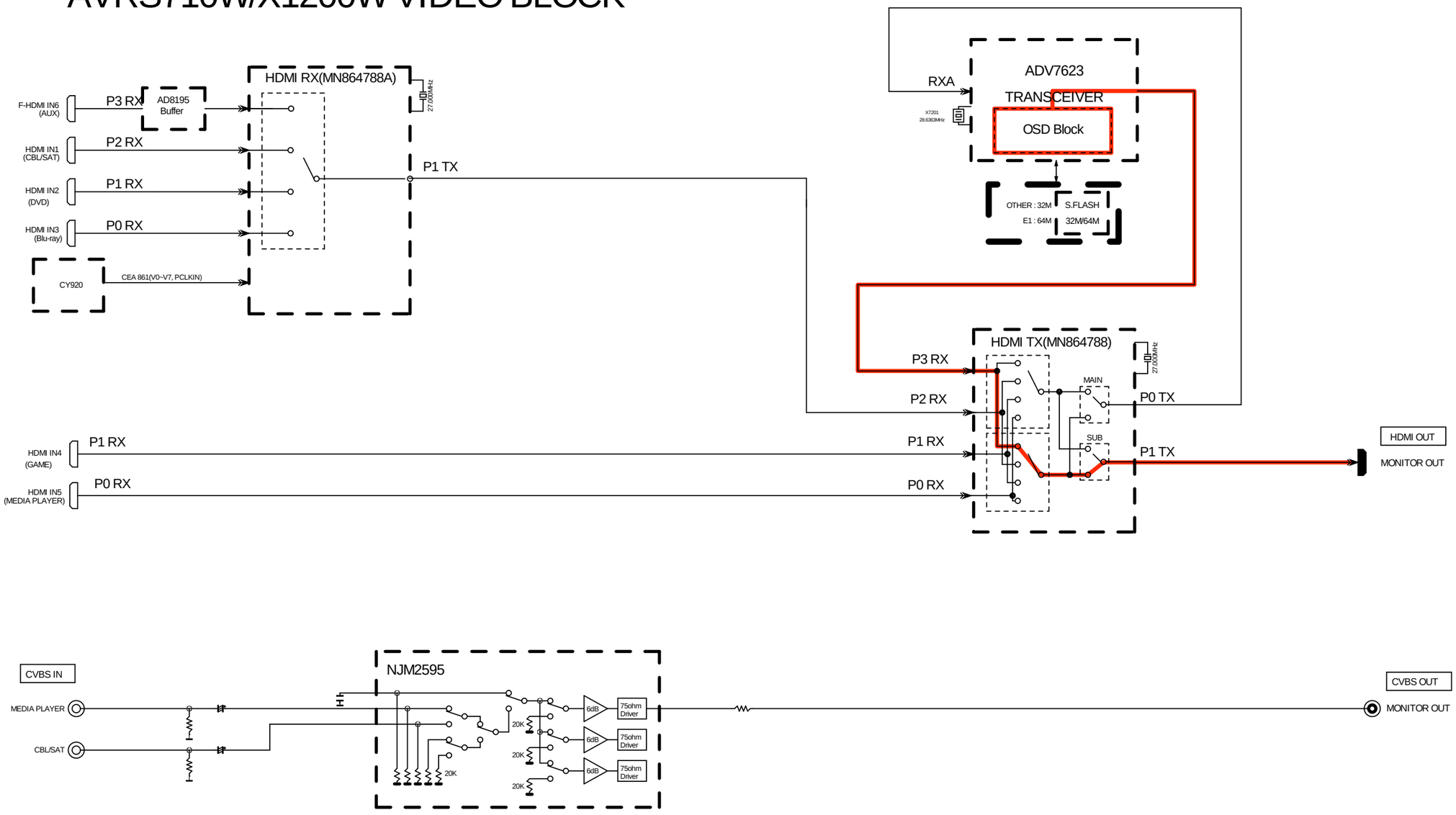


fig.11

AVRS710W/X1200W VIDEO BLOCK



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

AVR-X1200W
· While holding down buttons "**ZONE2 SOURCE**", "**DIMMER**" and "**STATUS**" simultaneously, press the power button to turn on the power.
AVR-S710W
· While holding down buttons "**TUNER PRESET CH+**", "**TUNE -**" and "**PRESET +**" 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 then 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 (if the last protection is ASO)

FLD	P	R	T	:	A	S	O									

Cause : A short circuit occurred between the speaker terminals, or speakers with an impedance outside the rating were connected.
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) DC (if the last protection is DC)

FLD	P	R	T	:	D	C										

Cause : DC output of the power amplifier is abnormal.
If the power is turned on in the abnormal state, protection is activated after around 6 seconds and the power is turned off.

(d) 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.

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

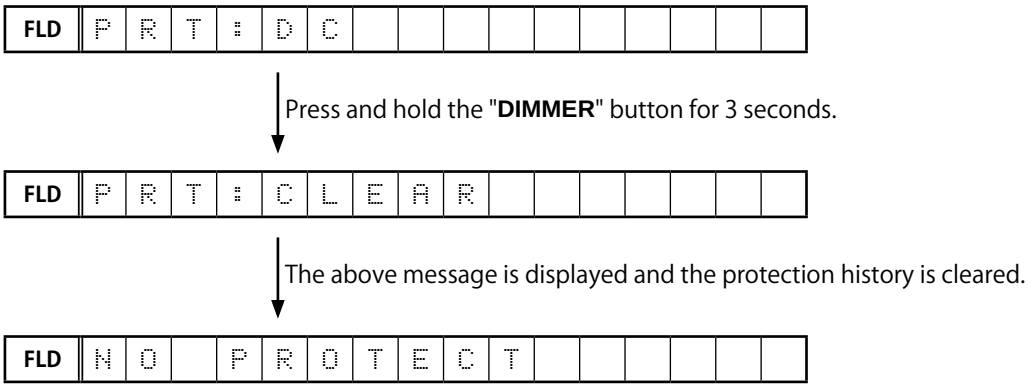
FLD	:	C	U	R	R	E	N	T								

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.



(b) Initialize this unit. (See "**Initializing This Unit**" on page 13)

※ Use the method in **3.5.1.** if you do not want to erase your settings from this unit.

Warning Displays by POWER LED

If the power is turned off while a protection is 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

AVR-X1200W

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

AVR-S710W

·While holding down buttons "**TUNER PRESET CH+**", "**TUNE -**" and "**PRESET +**" simultaneously, press the power button to turn on the power.

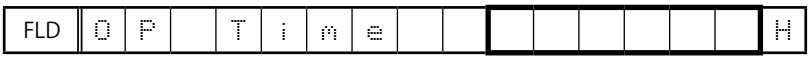
Select the "**4. OP INFO**" using the "**TUNER PRESET CH+ / -**" button, then press the "**STATUS**" button to confirm.

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.

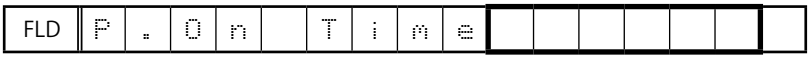
(a) Accumulated operating time



↑ Time display

"**STATUS**"

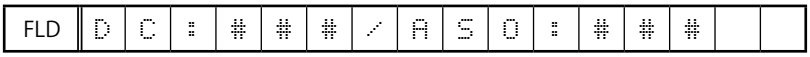
(b) Power on count



↑ Count display

"**STATUS**"

(c) DC / ASO Protection count

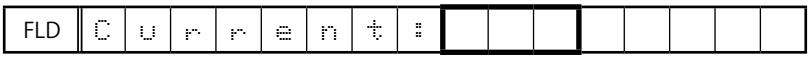


"**STATUS**"

(d) Thermal Protection count

"**STATUS**"

(e) CURRENT Protection count



"**STATUS**"

(Returns to normal display)

3.7. TUNER STEP mode (E2 / E3 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

AVR-X1200W

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

AVR-S710W

·While holding down buttons "**TUNER PRESET CH+**", "**TUNE -**" and "**PRESET +**" simultaneously, press the power button to turn on the power.

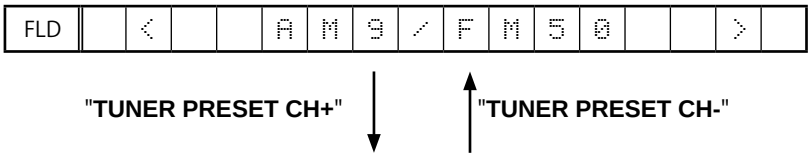
Select the "**5. TUNER FRQ SET**" using the "**TUNER PRESET CH +/-**" button, then press the **STATUS** button to confirm.

3.7.3. Displays

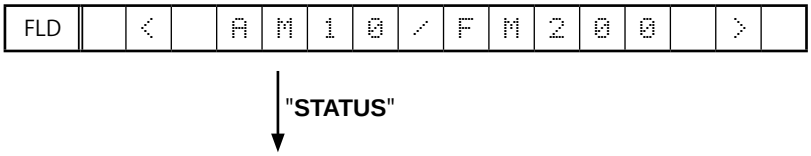
Start up this unit in TUNER STEP mode, select the desired option using the "**TUNER PRESET CH +/-**" button, then enter using the "**STATUS**" button.

The following information is displayed in the following order.

(a) AM9 kHz / FM50 kHz is selected



(b) AM10 kHz / FM200 kHz is selected



(c) Press the power button to turn off the power.

(d) Press the power button to turn on the power.

4. Remote ID Setup Mode

4.1. Actions

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

4.2. Starting up

AVR-X1200W
·While holding down buttons "**ZONE2 SOURCE**", "**DIMMER**" and "**STATUS**" simultaneously, press the power button to turn on the power.
AVR-S710W
·While holding down buttons "**TUNER PRESET CH+**", "**TUNE -**" and "**TUNE +**" simultaneously, press the power button to turn on the power.
Select the "**6. REMOTE ID**" using the "**TUNER PRESET CH +/-**" button, then press the "**STATUS**" button to confirm.

4.3. Operations

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

FLD				R	E	M	O	T	E		I	D		?		

(2) Press the "**QUICK SECT1-4**" button that corresponds to the number you want to this unit.

Button	Display
QUICK SELECT 1	R E M O T E I D 1
QUICK SELECT 2	R E M O T E I D 2
QUICK SELECT 3	R E M O T E I D 3
QUICK SELECT 4	R E M O T E I D 4

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

※ Only "**QUICK SELECT 1 - 4**" and the POWER button on the unit can be used in Remote ID Setup Mode.
※ The remote ID of the remote control supplied with this unit cannot be changed.

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

5. Protection Pass Mode

5.1. Actions

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

5.2. Operations

AVR-X1200W
· While holding down buttons "**TUNER PRESET CH +**", "**ZONE2 SOURCE**" and "**STATUS**" simultaneously, press the power button to turn on the power.
AVR-S710W
· While holding down buttons "**ZONE2 SOURCE**", "**TUNER PRESET CH +**" and "**TUNE +**" 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	o	t	e	c	t	i	o	n		P	a	s	s	

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

6. CY920 Reboot Mode

6.1. 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**")

6.2. Operations

(1) Turn the "**MAIN ZONE**" button on and set the input source to NETWORK.
(2) While the power is on, hold down buttons "**TUNER PRESET CH +**" and "**TUNER PRESET CH -**" for at least 3 seconds.
(3) Display during CY920 reboot

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

(4) 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.

7. CY920 Initialization Mode

7.1. Actions

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

7.2. Operations

AVR-X1200W
· While the power is on, hold down buttons "**ZONE2 SOURCE**" and "**DIMMER**" for at least 3 seconds.
AVR-S710W
· While the power is on, hold down buttons "**TUNER PRESET CH +**" and "**TUNE -**" 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

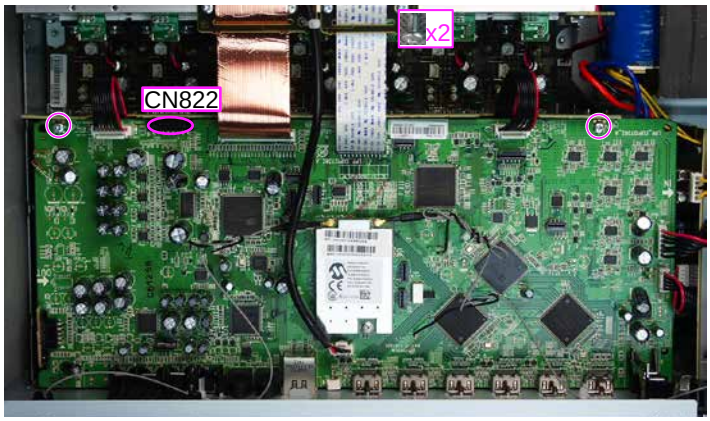
---Items to Be Prepared---

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

- 手順 -

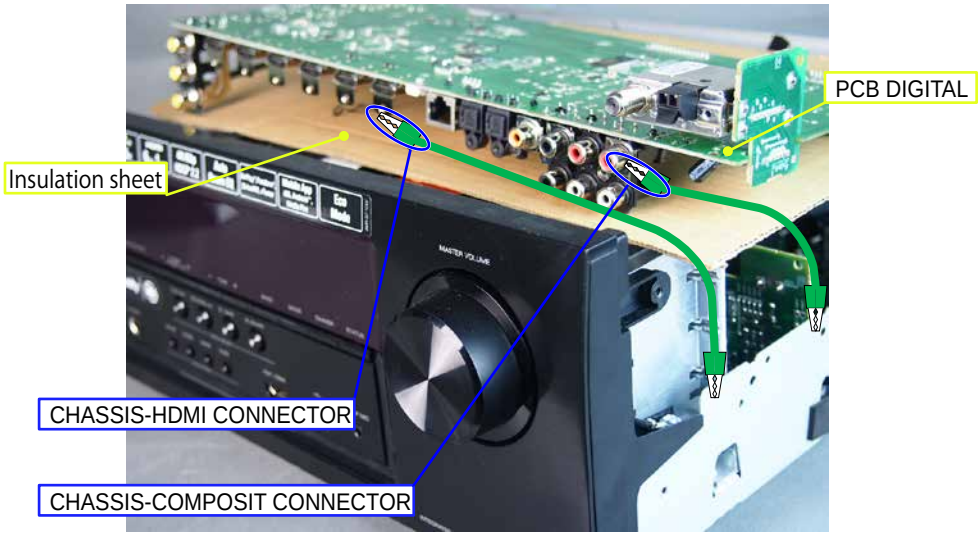
(1) Remove the screws.

(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	15pin	CN201	DIFF-AMP	⟷	CN822	DIGITAL

PROCEDURE AFTER REPLACING THE MICROPROCESSOR, ETC.

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

PCB Name	Ref. No.	Description	Procedure after Replacement	Remark
DIGITAL	IC751	R5F56108VNFP	B	SOFTWARE : Main
DIGITAL	IC732	MX25L3206EM2I-12G	B	SOFTWARE : GUI ROM
DIGITAL	IC773	5M80ZT100C5N	B	SOFTWARE : AUDIO PLD
DIGITAL	IC782	MX25L6406EM2I-12G	B	SOFTWARE : DSP ROM
MODULE	30	CY920 MODULE (CY920 Model)	D	SOFTWARE : SBL.bcd / IMG.bcd ※1
DIGITAL	U602	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 IC803 (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

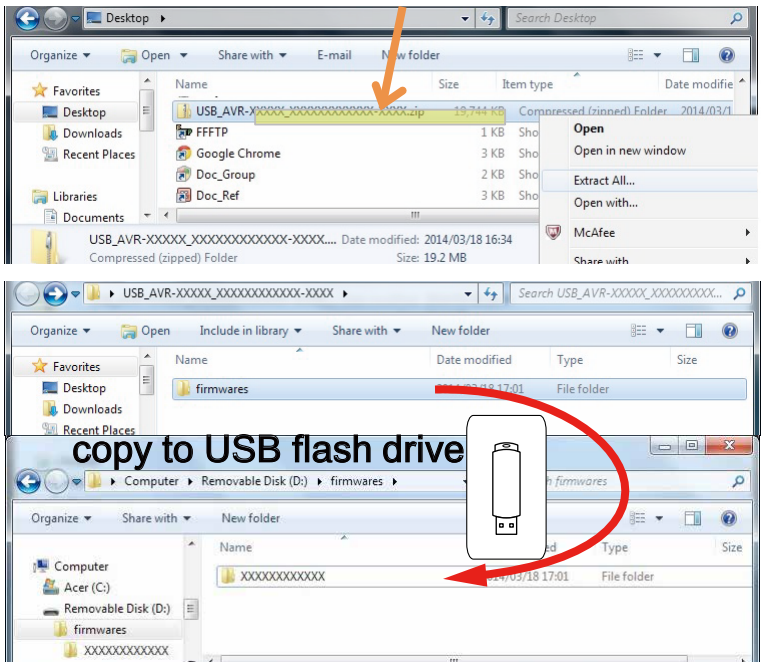
(1) Preparation

- 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.
- If a USB memory device cannot be updated, replace it with a different USB memory device and perform the update again.

1.2. Unzipping the Downloaded File

Unzip the downloaded file on your computer.

AVR-XXXXXXX	**USB_AVR-XXXXXXX_XXXXXXXXXXXX-XXXX.zip**



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).

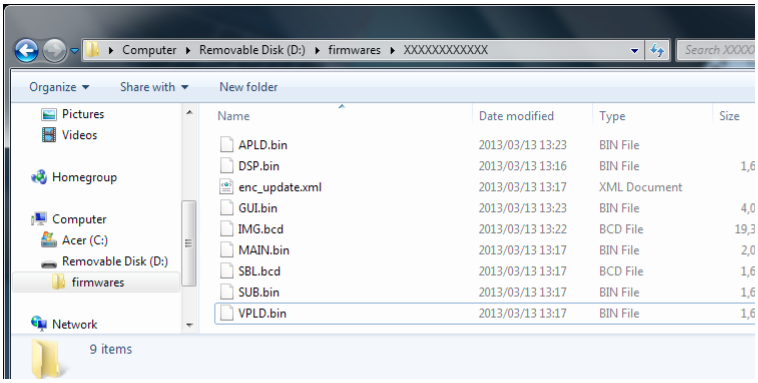
1.3. File structure on USB Memory

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

USB memory root

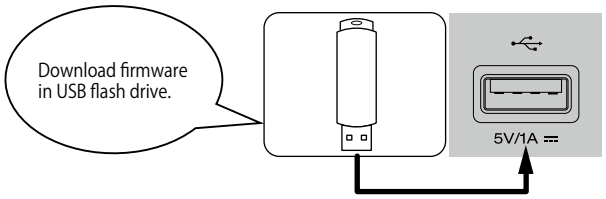
Model Name	Model Area	Product ID
AVR-X1200WE3	North America (E3)	000100820100
AVR-X1200WE2	Europe (E2)	000100820200
AVR-X1200WJP	Japan (JP)	000100820400
AVR-X1200WE1C	China (E1C)	000100820500
AVR-S710W	North America (E3)	000100820700

+ firmwares
  + 000100XXXXXX
    + 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.

AVR-X1200W

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

AVR-S710W

While holding down buttons "**ZONE2 SOURCE**" and "**TUNE +**" 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	m	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

AVR-X1200W
While holding down buttons the "**TUNER PRESET CH +**" and "**STATUS**" buttons simultaneously, insert the AC plug to turn the power on.
AVR-S710W
While holding down buttons the "**ZONE2 SOURCE**" and "**TUNE +**" 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

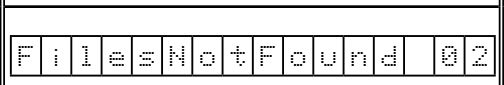
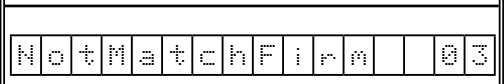
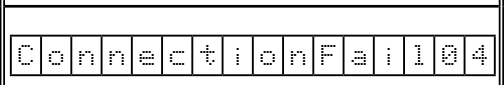
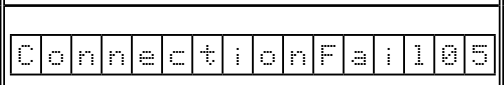
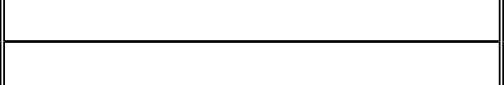
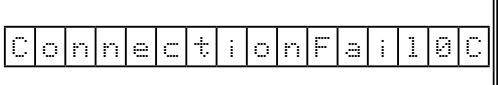
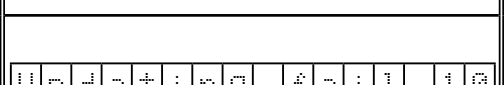
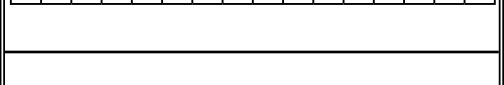
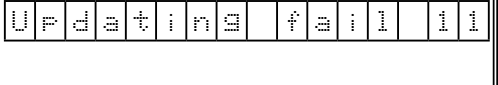
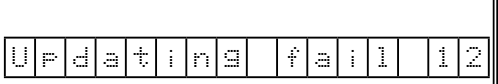
FLD	U	p	d	a	t	e		C	o	m	p	l	e	t	e	

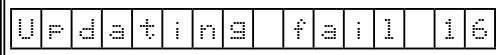
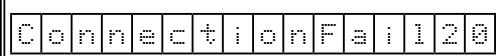
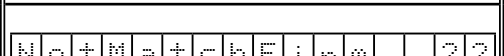
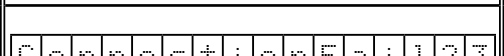
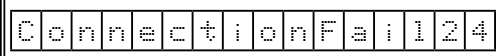
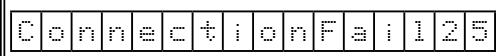
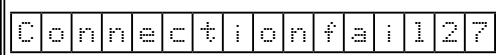
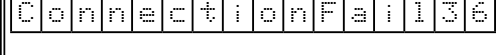
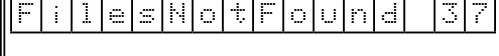
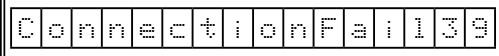
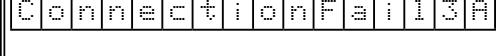
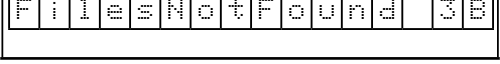
The unit restarts after the update is finished.

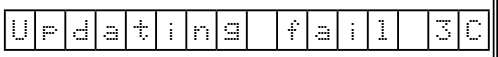
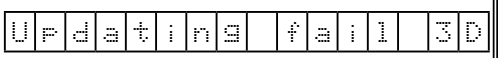
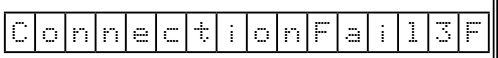
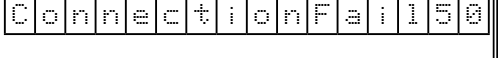
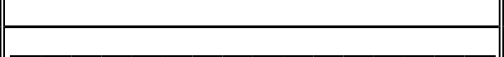
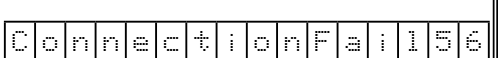
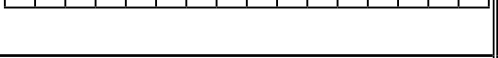
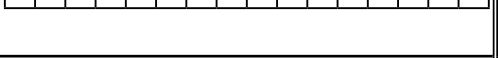
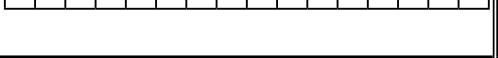
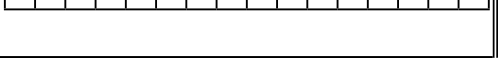
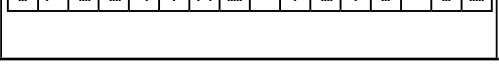
(6) After the update, check that "**CY920 Error**" is no longer displayed, and check the version of the new firmware.
See "**1. Version Display Mode**" (page 21).

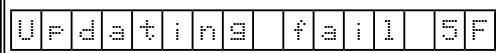
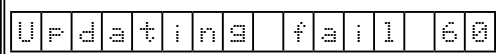
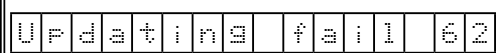
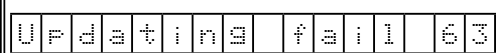
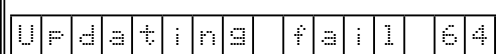
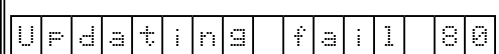
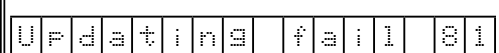
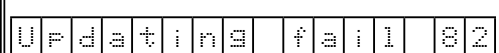
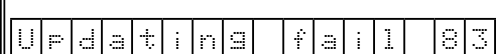
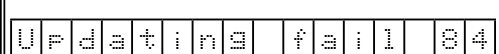
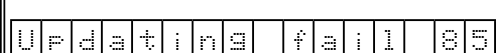
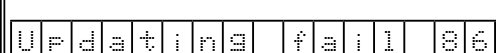
1.10. About the error codes

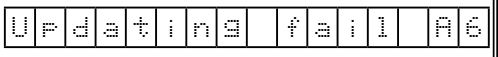
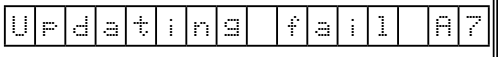
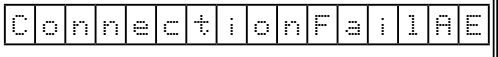
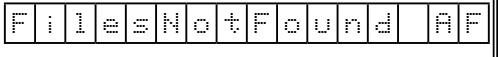
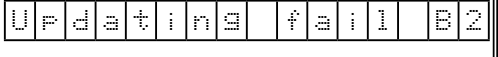
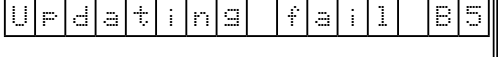
See the table below for error codes and details of faults when the firmware is updated through USB memory.

Error Code	USB Update Error Display	Details of Error code	Remedies
01		Unable to detect USB.	Disconnect and reconnect the USB memory.
02		No Firmware File in USB.	Make sure that the Firmware File is in the USB memory.
03		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		Failed to obtain the entire Firmware information.	Start the USB Update again.
05		Time Out while obtaining the entire Firmware information.	Start the USB Update again.
08		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		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		Unable to detect USB for Firmware Download.	Disconnect and reconnect the USB memory.
0B		No Firmware File for Firmware Download.	Make sure that the Firmware File is in the USB memory.
0C		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		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		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		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		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		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		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		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		Unable to detect USB after SBL Mode.	Disconnect and reconnect the USB memory.
21		No Firmware File in USB after SBL Mode.	Make sure that the Firmware File is in the USB memory.
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		Failed to obtain the entire Firmware information after SBL Mode.	Start the USB Update again.
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		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		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		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		Unable to detect USB.	Disconnect and reconnect the USB memory.
37		No Firmware File in USB.	Make sure that the Firmware File is in the USB memory.
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		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		Unable to detect USB for Firmware Download.	Disconnect and reconnect the USB memory.
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		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		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.
3F		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		Unable to detect USB.	Disconnect and reconnect the USB memory.
51		No Firmware File in USB.	Make sure that the Firmware File is in the USB memory.
52		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		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		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.
56		Unable to detect USB for Firmware Download.	Disconnect and reconnect the USB memory.
57		No Firmware File for Firmware Download.	Make sure that the Firmware File is in the USB memory.
5A		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		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		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		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		Abnormal data in Update Packet received from CY920 (PacketNoError).	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.

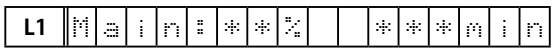
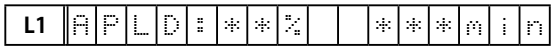
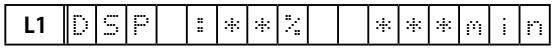
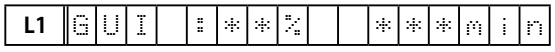
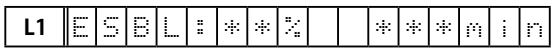
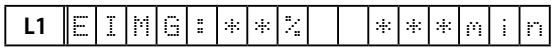
Error Code	USB Update Error Display	Details of Error code	Remedies
5F		Setup failure of the XModem transfer method.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
60		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		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		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		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.
64		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.
80		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. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
81		Block Erase failed in Read after issuing the "BE" 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.
82		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.
83		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.
84		Abnormal data in Update Packet received from CY920 (Packet No 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.
85		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. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
86		Mismatched Check Sum in Check Sum comparison after rewriting.	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.
A2		Unable to detect 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.

Error Code	USB Update Error Display	Details of Error code	Remedies
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		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		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		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		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		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		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		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		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		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		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 21).

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		10 - 16 36 - 3D 3F
Audio PLD		50 - 52 54 - 57 5A - 64
DSP		50 - 52 54 - 57 5A - 64
GUI Serial Flash		50 - 52 54 - 57 5A 62 - 64 80 - 86
CY920 second Boot Loader		A2 - A4 A6 - A7 AE - AF B1 - B5
CY920 Image		A2 - A4 A6 - A7 AE - AF B1 - B5
CY920 Image (Emergency Mode)		–

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

After updating the firmware, check the version. See "**1. Version Display Mode**" (page 21).

2. Updating via DPMS

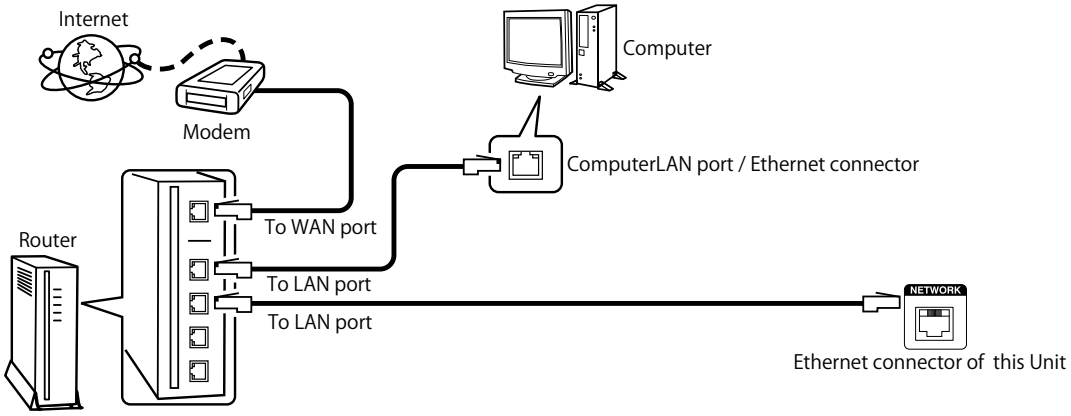
Download the latest firmware from our website and update the firmware.

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---

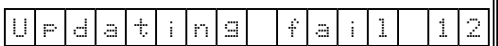
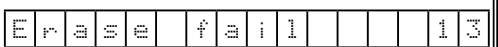
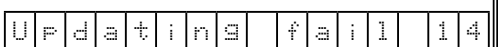
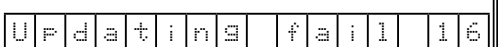
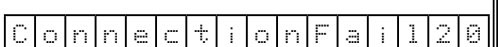
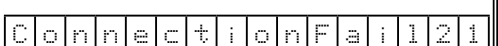
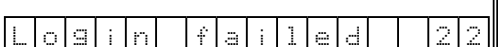
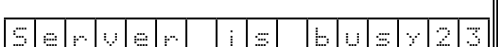
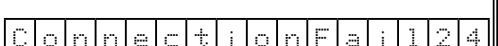
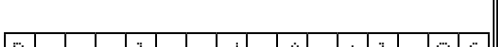
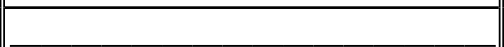
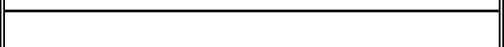
- For the update procedure, a proper broadband Internet connection environment and settings are required.
- Do not turn off the power until updating is completed.
- It takes around 1 hour to complete the update.

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.

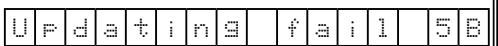
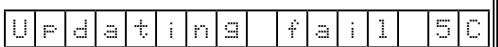
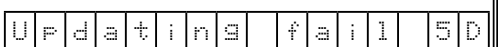
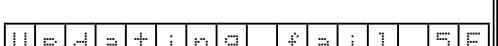
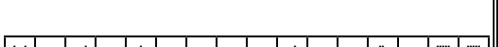
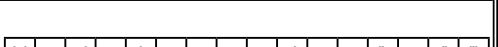
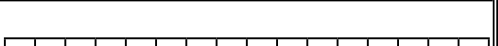
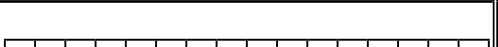
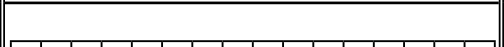
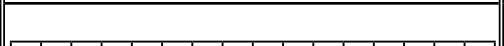
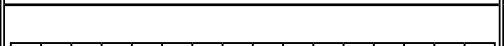
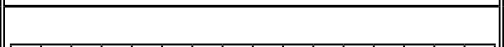
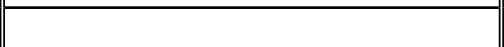
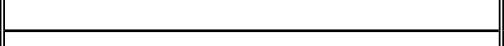
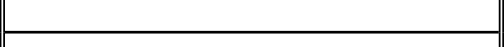
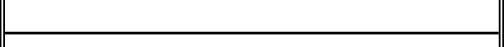
2.3. About the error codes

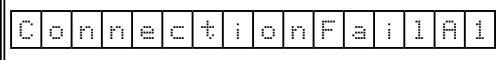
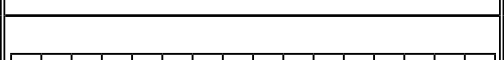
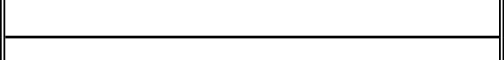
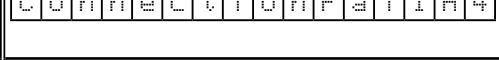
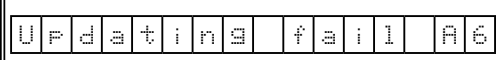
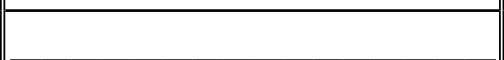
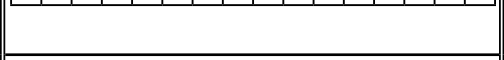
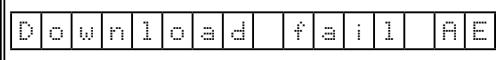
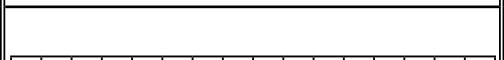
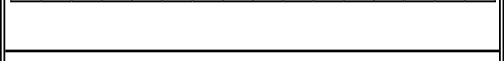
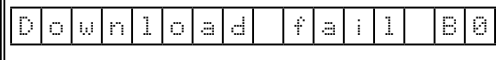
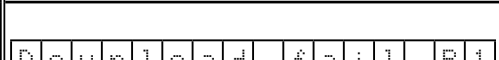
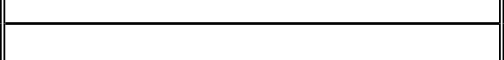
See the following table for details on the error code display, details of the error code, remedies when updating the firmware via DPMS. (DPMS : D&M Product Management Server)

Error Code	DPMS Update Error Display	Details of Error code	Remedies
01	Login 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	ConnectionFail03	Connection to DPMS failed.	Check the network connection. Carry out the update in an environment that has little network load.
04	ConnectionFail04	Failed to obtain the entire Firmware information.	Check the network connection. Carry out the update in an environment that has little network load.
05	ConnectionFail05	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	ConnectionFail06	Failed to obtain the individual Firmware information.	Check the network connection. Carry out the update in an environment that has little network load.
07	ConnectionFail07	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	ConnectionFail08	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	ConnectionFail09	Time Out while obtaining Firmware information.	Check the network connection. Carry out the update in an environment that has little network load.
0A	Download fail 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 fail 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 fail 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	ConnectionFail0D	Received value with the invalid Package Version.	Check the network connection. Carry out the update in an environment that has little network load.
0E	ConnectionFail0E	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 fail 10	No Update Packet received from CY920 (Time Out).	Turn off and on the power. Updating starts automatically.
11	Updating fail 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		Abnormal data in Update Packet received from CY920 (Packet No Error).	Turn off and on the power. Updating starts automatically.
13		Failed in Block Erase before rewriting Main.	Turn off and on the power. Updating starts automatically.
14		Failed in Block Erase while rewriting Main.	Turn off and on the power. Updating starts automatically.
15		Error in Verify after rewriting Main (Check Sum Error).	Turn off and on the power. Updating starts automatically.
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		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		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		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		DPMS congestion notification after SBL.	Carry out the update in an environment that has little network load.
24		DPMS connection failure notification after SBL.	Check the network connection. Carry out the update in an environment that has little network load.
25		Failed to transit to SBL Mode.	Initialize the unit and try updating again.
26		Error in Firmware Download (Time Out).	Check the network connection. Carry out the update in an environment that has little network load.
27		Failed to write to EEPROM after SBL Mode.	Initialize the unit and try updating again.
36		DPMS login incorrect notification.	Carry out the update in an environment that has little network load.
37		DPMS congestion notification.	Carry out the update in an environment that has little network load.
38		DPMS connection failure notification.	Check the network connection. Carry out the update in an environment that has little network load.

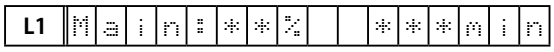
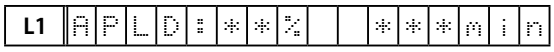
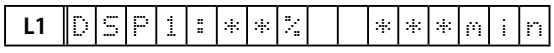
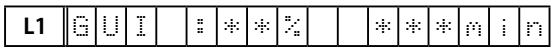
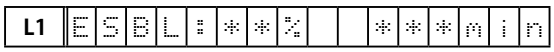
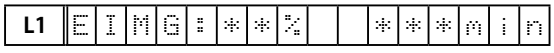
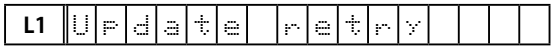
Error Code	DPMS Update Error Display	Details of Error code	Remedies
39	ConnectionFail39	DPMS connection Time Out Error.	Check the network connection. Carry out the update in an environment that has little network load.
3A	Download fail 3A	Error(NG) notification received while requesting Firmware Download.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3B	Download fail 3B	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 fail 3C	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	ConnectionFail3D	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	ConnectionFail3E	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	ConnectionFail3F	Failed to transit to SBL Mode.	Check the network connection. Carry out the update in an environment that has little network load.
50	Sub ***min Login failed 50	DPMS login incorrect notification.	Carry out the update in an environment that has little network load.
51	Server is busy51	DPMS congestion notification.	Carry out the update in an environment that has little network load.
52	ConnectionFail52	DPMS connection failure notification.	Check the network connection. Carry out the update in an environment that has little network load.
54	Updating fail 54	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 fail 55	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 fail 56	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 fail 57	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 fail 58	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	ConnectionFail5A	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		NACK received in response or no response from Sub for the "L" command.	Turn off and on the power. Updating starts automatically.
5C		No Update Packet received from CY920 (Time Out).	Turn off and on the power. Updating starts automatically.
5D		Abnormal data in Update Packet received from CY920 (CRCError).	Turn off and on the power. Updating starts automatically.
5E		Abnormal data in Update Packet received from CY920 (PacketNo-Error).	Turn off and on the power. Updating starts automatically.
5F		Setup failure of the XModem transfer method.	Turn off and on the power. Updating starts automatically.
60		NACK received in response or no response from Sub for the "P" command.	Turn off and on the power. Updating starts automatically.
61		Mismatched Check Sum in response or no response from Sub for the "I" command.	Turn off and on the power. Updating starts automatically.
62		Failed to start up Sub in Power On sequence during Update.	Turn off and on the power. Updating starts automatically.
80		Write Enable Latch Bit not set in Read after issuing the "WREN" command.	Turn off and on the power. Updating starts automatically.
81		Block Erase failed in Read after issuing the "BE" command.	Turn off and on the power. Updating starts automatically.
82		No Update Packet received from CY920 (Time Out).	Turn off and on the power. Updating starts automatically.
83		Abnormal data in Update Packet received from CY920 (CRCError).	Turn off and on the power. Updating starts automatically.
84		Abnormal data in Update Packet received from CY920 (PacketNo-Error).	Turn off and on the power. Updating starts automatically.
85		Setup failure of the XModem transfer method.	Turn off and on the power. Updating starts automatically.
86		Mismatched Check Sum in Check Sum comparison after rewriting.	Turn off and on the power. Updating starts automatically.
A0		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		IP Address acquisition failure (Time Out).	Check the network connection. Carry out the update in an environment that has little network load.
A2		DPMS login incorrect notification.	Check the network connection. Carry out the update in an environment that has little network load.
A3		DPMS congestion notification.	Check the network connection. Carry out the update in an environment that has little network load.
A4		DPMS connection failure notification.	Check the network connection. Carry out the update in an environment that has little network load.
A6		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		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		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		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		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		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		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		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		Failed to transit to Boot Loader Mode.	Initialize the unit and try updating again.
B5		Failed to transit to Application Mode.	Initialize the unit and try updating again.

Device display during 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		10 - 16 36 - 3F
Audio PLD		50 - 52 54 - 58 5A - 62
DSP		50 - 52 54 - 58 5A - 62
GUI Serial Flash		50 - 52 54 - 58 5A 62 80 - 86
CY920 second Boot Loader		A0 - A4 A6 - A7 AE - B5
CY920 Image		A0 - A4 A6 - A7 AE - B5
CY920 Image (Emergency Mode)		–

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

After updating the firmware, check the version.

See "**1. Version Display Mode**" (page 21).

ADJUSTMENT

Adjusting Idling Current

1. Preparation

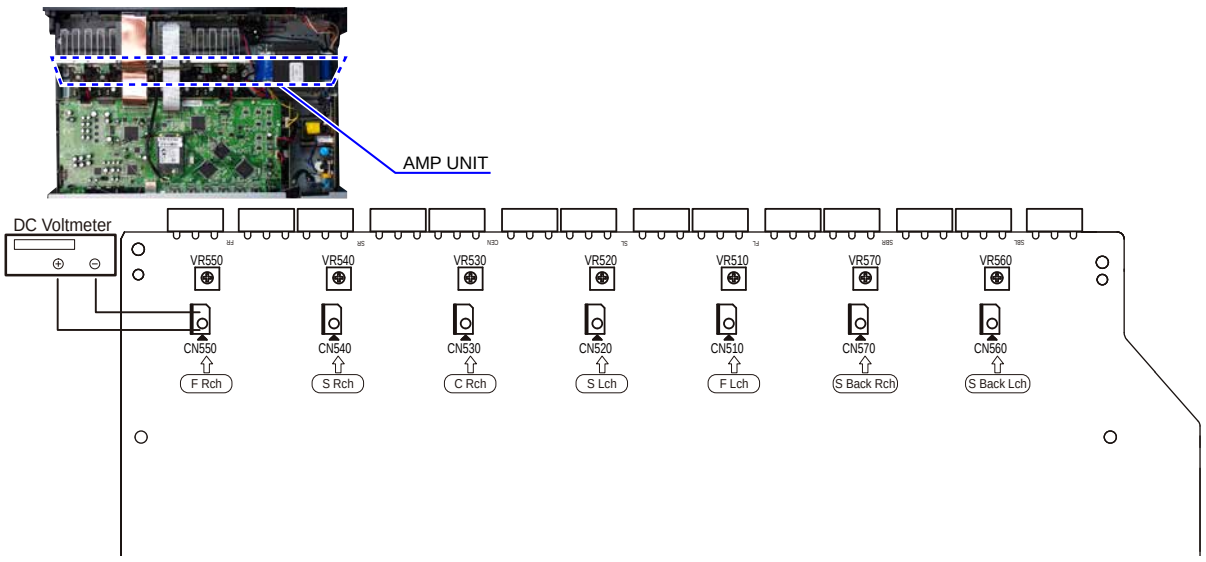
(1) Prepare a DC voltmeter.
(2) Place the unit under normal usage conditions, away from highly ventilated areas such as next to an air conditioning machine or electric fan.
The set requires an ambient temperature of 15℃ to 30℃ and standard humidity.。
(3) Settings of This Unit
• POWER (Power source switch)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

2. Adjustment Procedure

(1) Remove the top cover and turn VR550, VR540, VR530, VR520, VR510, VR570, VR560 of the AMP PCB counterclockwise(↺) as far as possible.
(2) Connect the DC Voltmeter to the test points.

FRONT-Lch	: CN510
FRONT-Rch	: CN550
CENTER ch	: CN530
SURROUND-Lch	: CN520
SURROUND-Rch	: CN540
SURROUND-BACK Lch	: CN560
SURROUND-BACK Rch	: CN570

(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 : DVD
(5) Turn VR550 clockwise (↻) and adjust the voltage of the test point to "**1.5mV ± 0.5mV DC**" within 2 minutes.
(6) 10 minutes after the preliminary adjustment, turn VR550 and set the voltage to "**2.0mV ± 0.5mV DC**".
(7) Adjust the variable resistance of each channel using the same method.



SURROUND MODES AND PARAMETERS

Sound modes and channel output

◯ This indicates the audio output channels or surround parameters that can be set.
◎ This indicates the audio output channels. The output channels depend on the settings of “Speaker Config.”.

Sound mode	Surr.Parameter								
	Dialog Level	Subwoofer Level	Cinema EQ	Loudness Mngmt *1	Dynamic Comp. *2	Dialog Control *3	Low Frequency *4	Delay Time	Effect Level
Direct (2-channel)		◯*5		◯	◯				
Direct (Multi-channel)	◯	◯		◯	◯		◯		
Stereo		◯		◯	◯		◯		
Multi Ch In	◯	◯	◯				◯		
Dolby Surround	◯	◯	◯	◯	◯		◯		
DTS Neural:X	◯	◯	◯	◯	◯				
Dolby Digital	◯	◯	◯	◯	◯		◯		
Dolby Digital Plus	◯	◯	◯	◯	◯		◯		
Dolby TrueHD	◯	◯	◯	◯	◯		◯		
Dolby Atmos	◯	◯	◯	◯	◯		◯		
DTS Surround	◯	◯	◯		◯		◯		
DTS 96/24	◯	◯	◯				◯		
DTS-HD	◯	◯	◯				◯		
DTS Express	◯	◯	◯				◯		
DTS:X	◯	◯	◯		◯	◯	◯		
Multi Ch Stereo	◯	◯	◯	◯	◯		◯		
Rock Arena	◯	◯		◯	◯		◯		◯
Jazz Club	◯	◯		◯	◯		◯		◯
Mono Movie	◯	◯		◯	◯		◯		◯
Video Game	◯	◯		◯	◯		◯		◯
Matrix	◯	◯		◯	◯		◯	◯	
Virtual		◯		◯	◯		◯		

*1 A signal for each channel contained in an input signal is output as audio.
*2 Audio is not output when “Speaker Config.” - “Surround Back” in the menu is set to “1 spkr”.
*3 Audio is output when the set sound mode name contains “+ Dolby Surround”.
*4 Audio is output when “Subwoofer Mode” in the menu is set to “LFE+Main”.

Sound modes and surround parameters

Sound mode	Surr.Parameter			Tone *6	Audyssey			Restorer *9
	Room Size	Center Spread	DTS Neural:X		MultEQ® XT *7	Dynamic EQ *8	Dynamic Volume *8	
Direct (2-channel)								
Direct (Multi-channel)								
Stereo				◯	◯	◯	◯	◯
Multi Ch In				◯	◯	◯	◯	
Dolby Surround		◯		◯	◯	◯	◯	◯
DTS Neural:X				◯	◯	◯	◯	◯
Dolby Digital				◯	◯	◯	◯	
Dolby Digital Plus				◯	◯	◯	◯	
Dolby TrueHD				◯	◯	◯	◯	
Dolby Atmos				◯	◯	◯	◯	
DTS Surround				◯	◯	◯	◯	
DTS 96/24				◯	◯	◯	◯	
DTS-HD				◯	◯	◯	◯	
DTS Express				◯	◯	◯	◯	
DTS:X			◯	◯	◯	◯	◯	
Multi Ch Stereo				◯	◯	◯	◯	◯
Rock Arena	◯			◯	◯	◯	◯	◯
Jazz Club	◯			◯	◯	◯	◯	◯
Mono Movie	◯			◯	◯	◯	◯	◯
Video Game	◯			◯	◯	◯	◯	◯
Matrix				◯	◯	◯	◯	◯
Virtual				◯	◯	◯	◯	◯

*1 - *6 : “Sound modes and surround parameters”

Sound mode	Surr.Parameter			Tone ∗7	Audyssey			Restorer ∗10
	Room Size	Center Spread	DTS Neural:X		MultEQ® XT ∗8	Dynamic EQ ∗9	Dynamic Volume ∗9	
Direct/Pure Direct (2-channel) ∗5								
Direct/Pure Direct (Multi-channel) ∗5								
Stereo				○	○	○	○	○
Multi Ch In				○	○	○	○	
Dolby Surround		○		○	○	○	○	○
DTS Neural:X				○	○	○	○	○
Dolby Digital				○	○	○	○	
Dolby Digital Plus				○	○	○	○	
Dolby TrueHD				○	○	○	○	
Dolby Atmos				○	○	○	○	
DTS Surround				○	○	○	○	
DTS 96/24				○	○	○	○	
DTS-HD				○	○	○	○	
DTS Express				○	○	○	○	
DTS:X			○	○	○	○	○	
Multi Ch Stereo				○	○	○	○	○
Rock Arena	○			○	○	○	○	○
Jazz Club	○			○	○	○	○	○
Mono Movie	○			○	○	○	○	○
Video Game	○			○	○	○	○	○
Matrix				○	○	○	○	○
Virtual				○	○	○	○	○

*5, *7 - *10: “Sound modes and surround parameters”

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

Types of input signals, and corresponding sound modes

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

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

*1 – *7 : “Types of input signals, and corresponding sound modes”

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

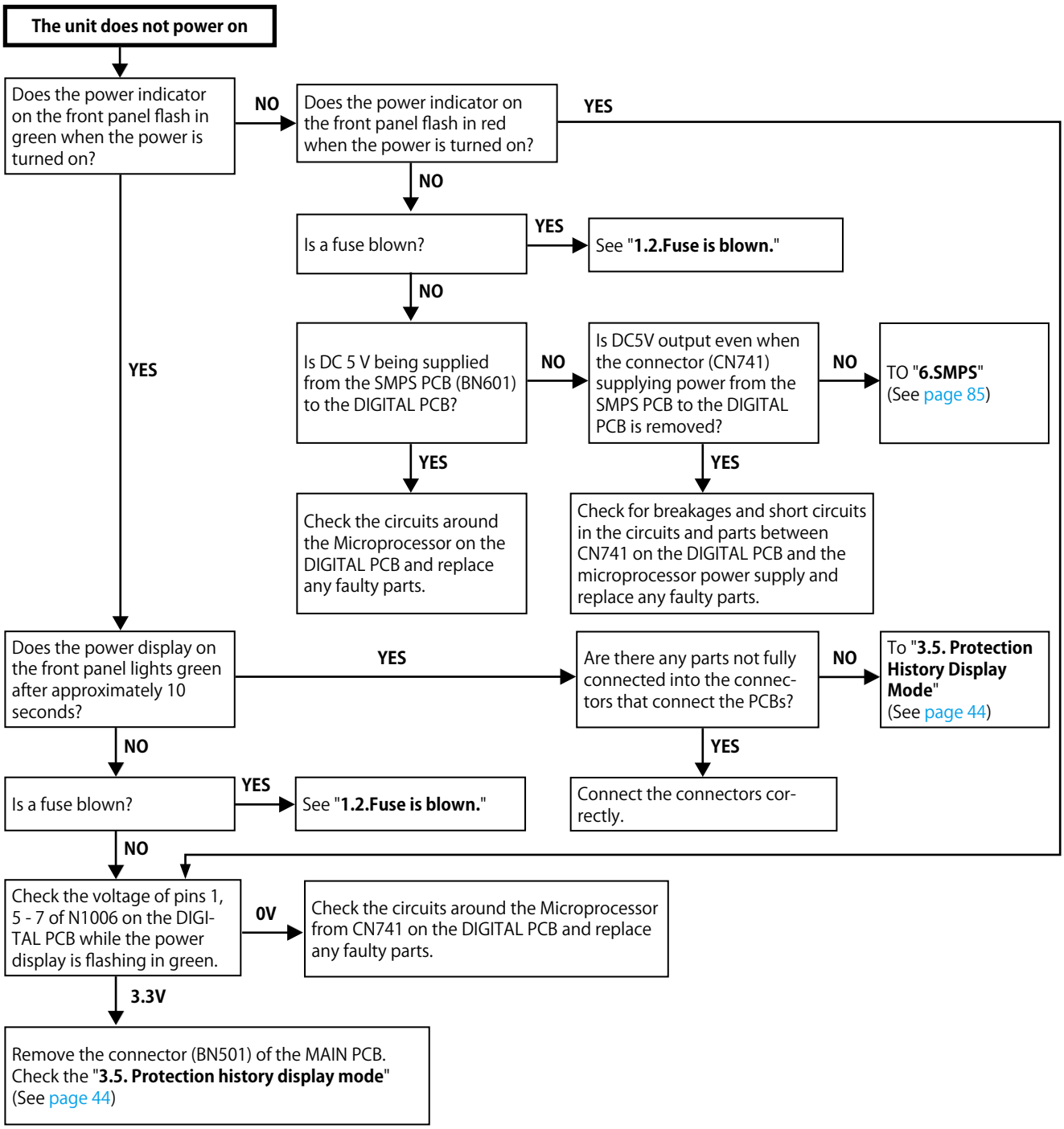
*2, *8 – *10 : “Types of input signals, and corresponding sound modes”

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

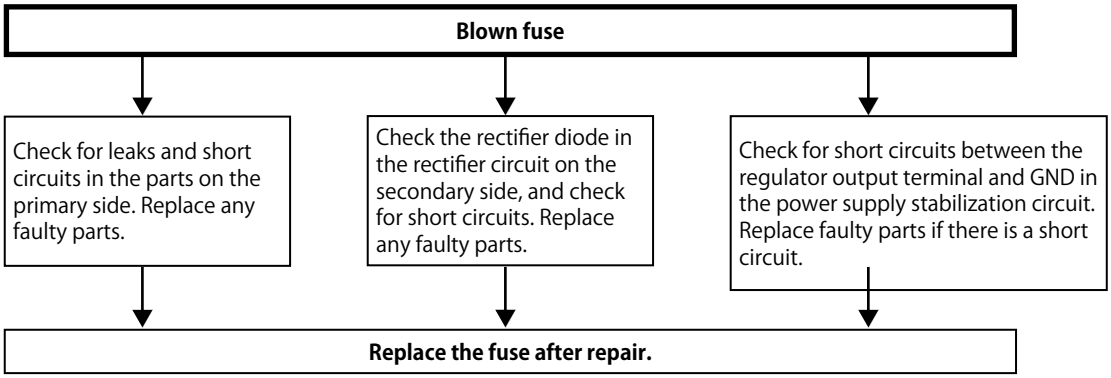
TROUBLE SHOOTING

1. POWER

1.1. The unit does not power on



1.2. Fuse is blown



2. Analog video

MONITOR OUT (CVBS) output NG

↓

Is the power voltage being output correctly?
+5VV :C8812 : + side
-5VV :C8813 : - side

NO → The circuit around CY920 is faulty.

YES ↓

Is a signal being output from the video amplifier?
Output V :IC881-1pin

NO → Does the signal input to the video amplifier?
(SAT/CBL function)
Vin3 : IC881-7pin

NO → Check the pattern between JK881 and IC881, and then check the Blu-ray/DVD player or the cable between the unit and the Blu-ray/DVD player.

YES ↓

Check the cable between the unit and the monitor or check the monitor.

YES ↓

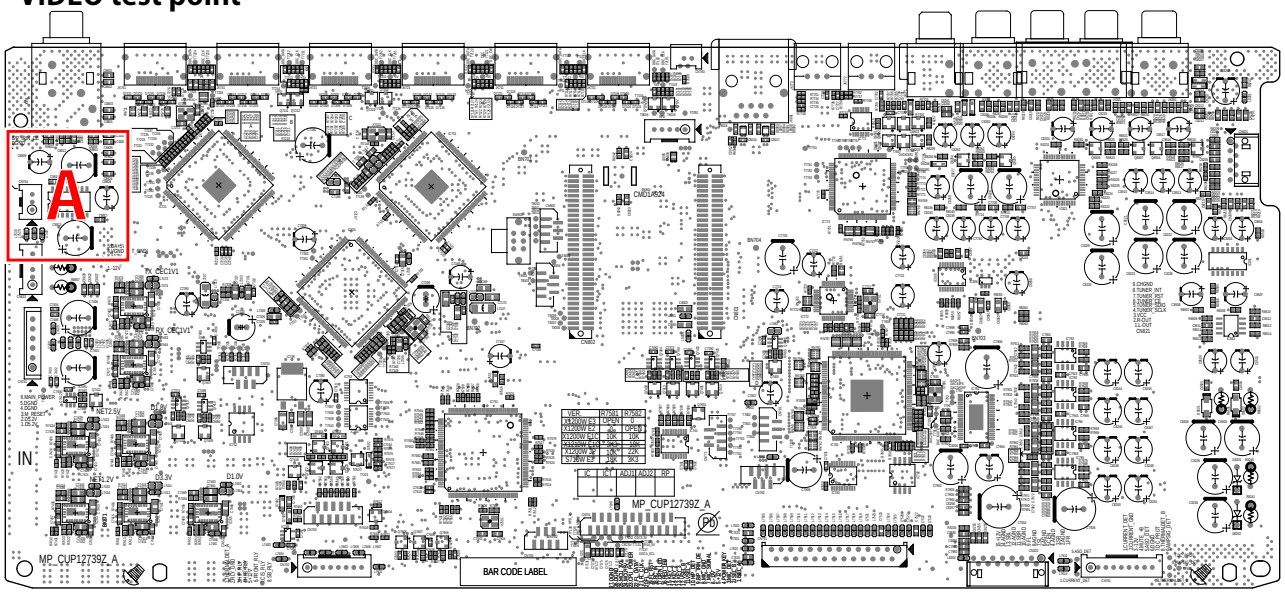
Check the settings of each IC. Are the following voltages set?
SW2 :IC881-10pin :3.3V : OK
SW5 :IC881-2pin : 3.3V : OK

NO → The CPU(IC751) is faulty.

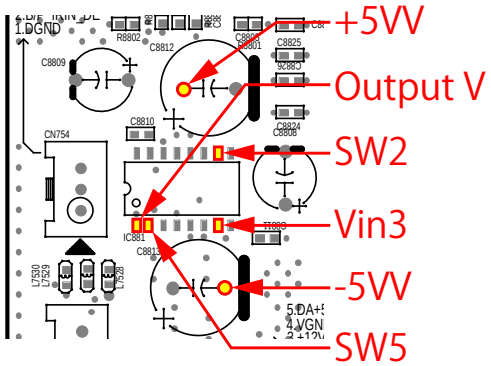
YES ↓

The circuit around IC881 is faulty.

VIDEO test point

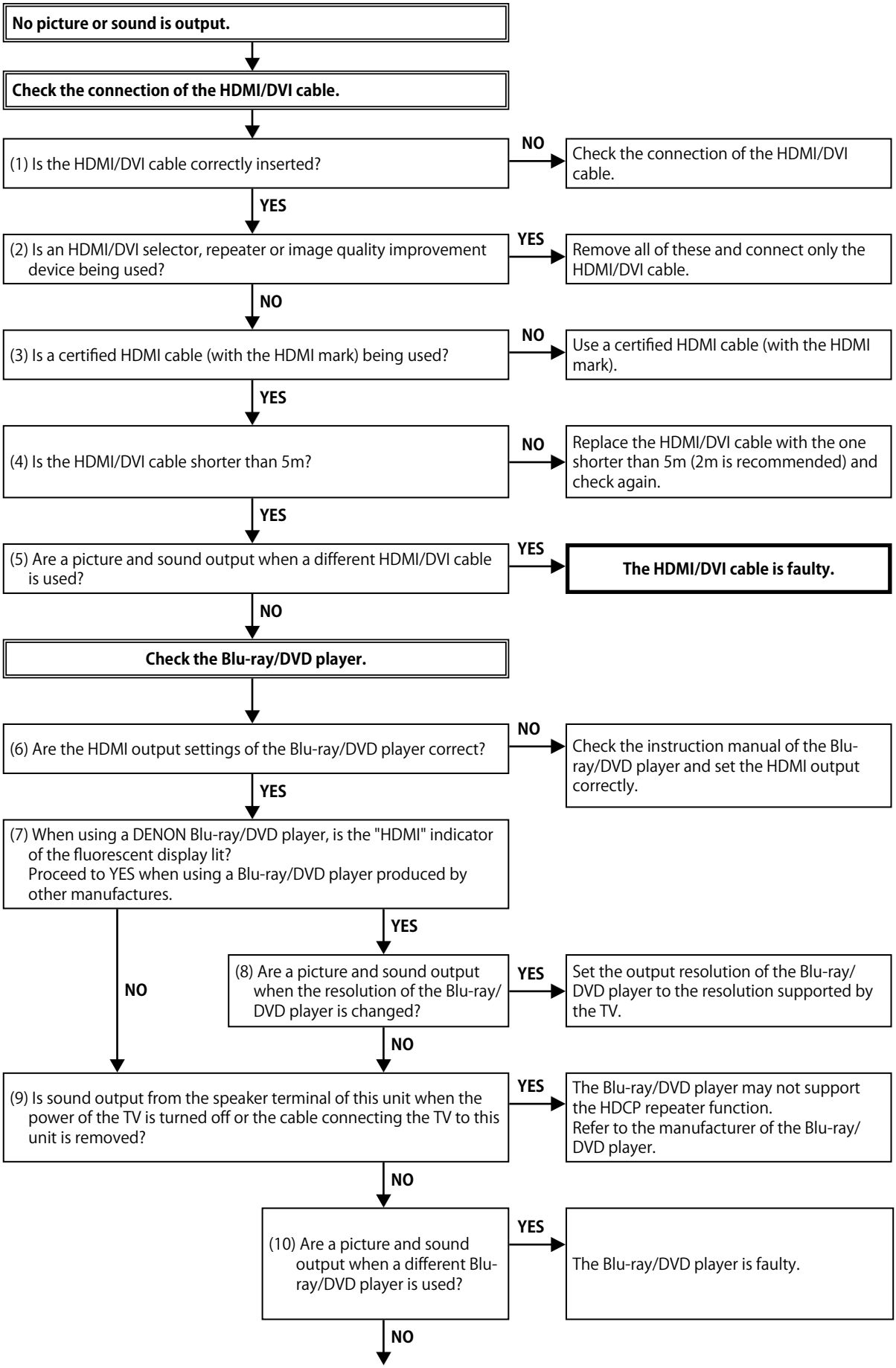


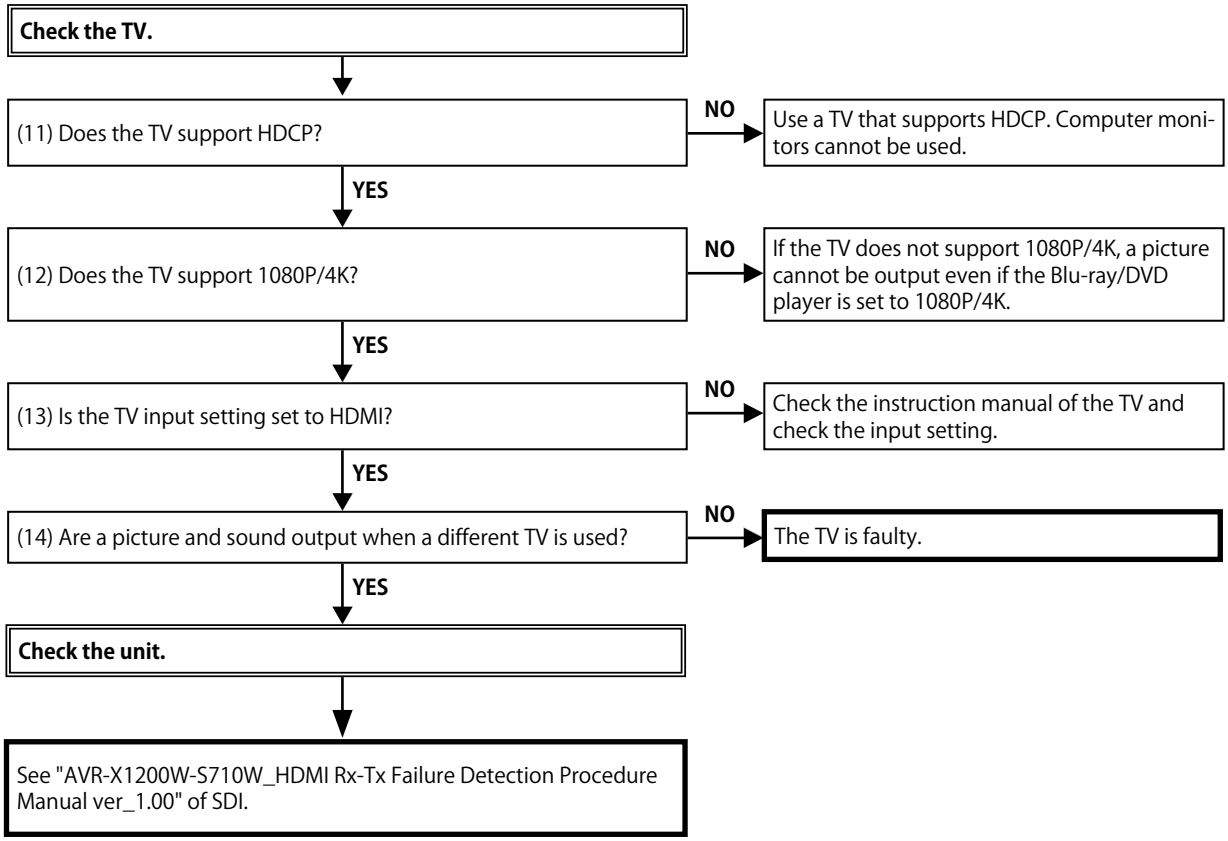
DIGITAL (COMPONENT SIDE)



3. HDMI/DVI

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




Check the TV.
(11) Does the TV support HDCP?
NO
Use a TV that supports HDCP. Computer monitors cannot be used.
YES
(12) Does the TV support 1080P/4K?
NO
If the TV does not support 1080P/4K, a picture cannot be output even if the Blu-ray/DVD player is set to 1080P/4K.
YES
(13) Is the TV input setting set to HDMI?
NO
Check the instruction manual of the TV and check the input setting.
YES
(14) Are a picture and sound output when a different TV is used?
NO
The TV is faulty.
YES
Check the unit.
See "AVR-X1200W-S710W_HDMI Rx-Tx Failure Detection Procedure Manual ver_1.00" of SDI.

4. AUDIO

4.1. AUDIO CHECK

No audio output

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

NO → Check the ANALOG AUDIO BLOCK

YES

CHECK2	INPUT	SURROND MODE	SOURCE
Audio output OK?	COAX or OPT	-	Legacy (PCM or DolbyDigital or dts…)

NO → Check the DIGITAL AUDIO BLOCK

YES

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

NO → Check the ADC BLOCK

YES

CHECK4	INPUT	SURROND MODE	SOURCE
Audio output OK?	HDMI	-	Legacy (PCM2ch or DolbyDigital or dts…)

NO → Check the HDMI BLOCK

YES

CHECK5	INPUT	SURROND MODE	SOURCE
Audio output OK?	HDMI	-	HBR audio (DolbyTrueHD or dtsHD MA)

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

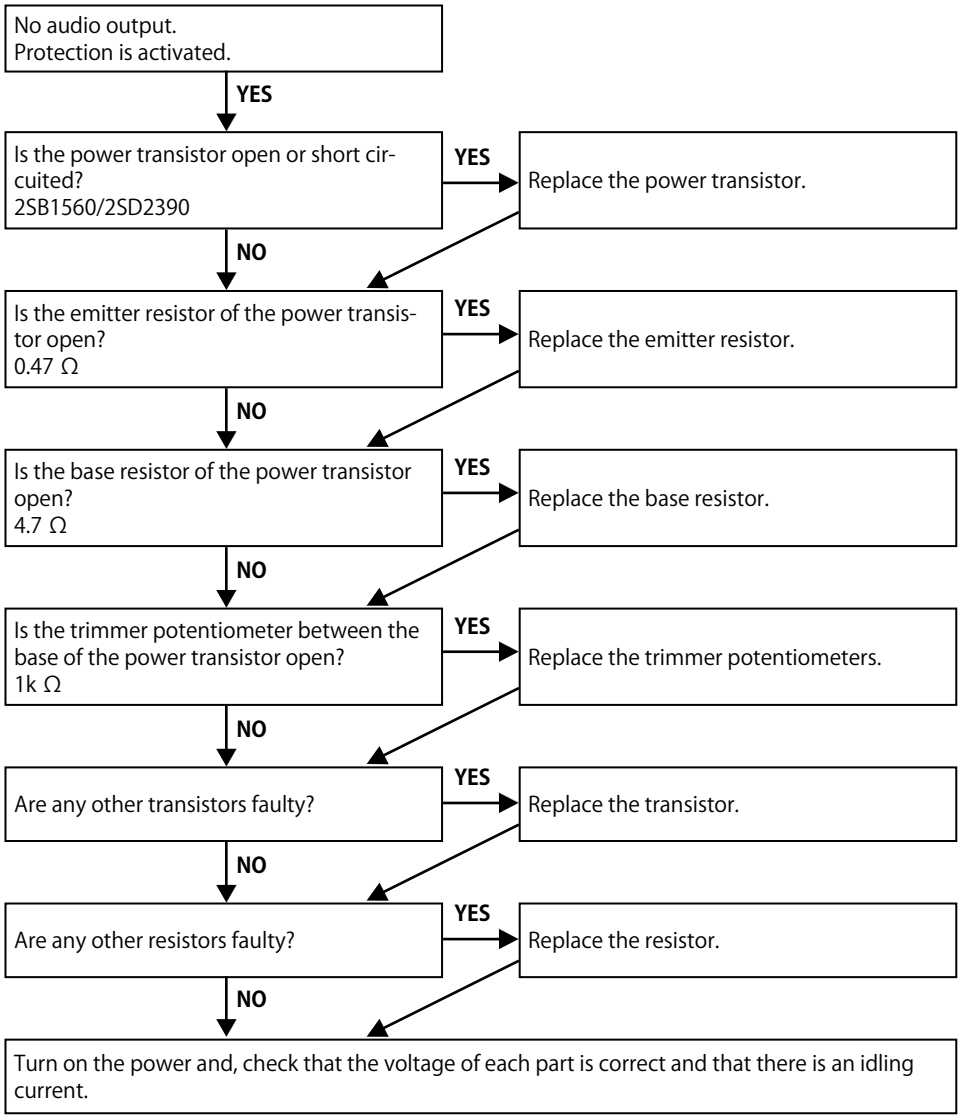
NO

CHECK6	INPUT	Connect	
AVR's (connected in HDMI) audio output OK?	HDMI	This unit's HDMI OUT → Other AVR's HDMI IN	
	Setting	SURROND MODE	SOURCE
	CEC STANDBY	-	HBR audio(DolbyTrueHD or dtsHD MA)

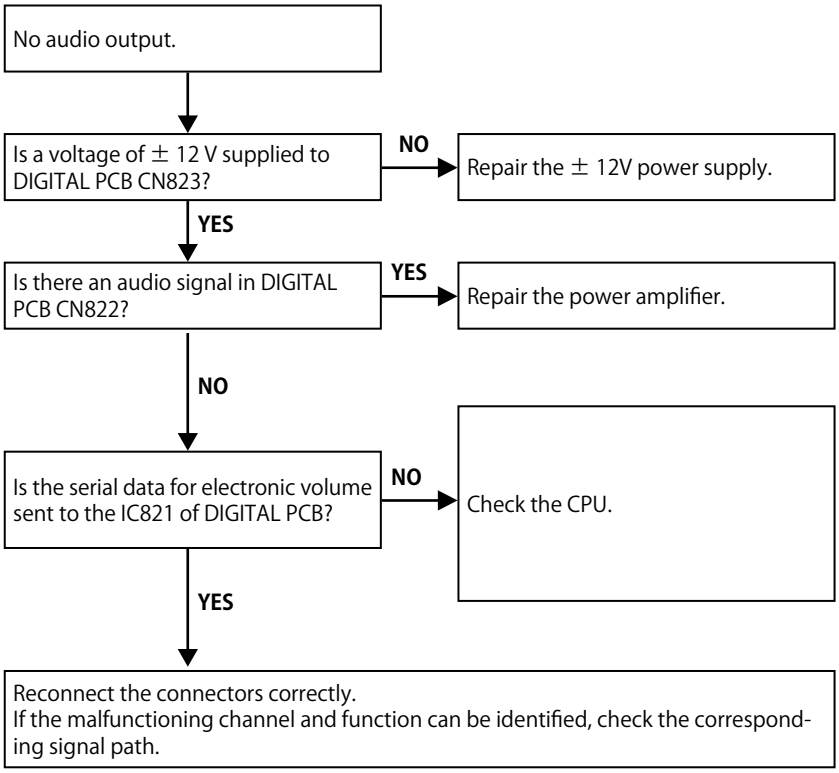
YES → Check the DIGITAL AUDIO BLOCK

NO → Check the HDMI BLOCK

4.2. Power AMP (AMP PCB)

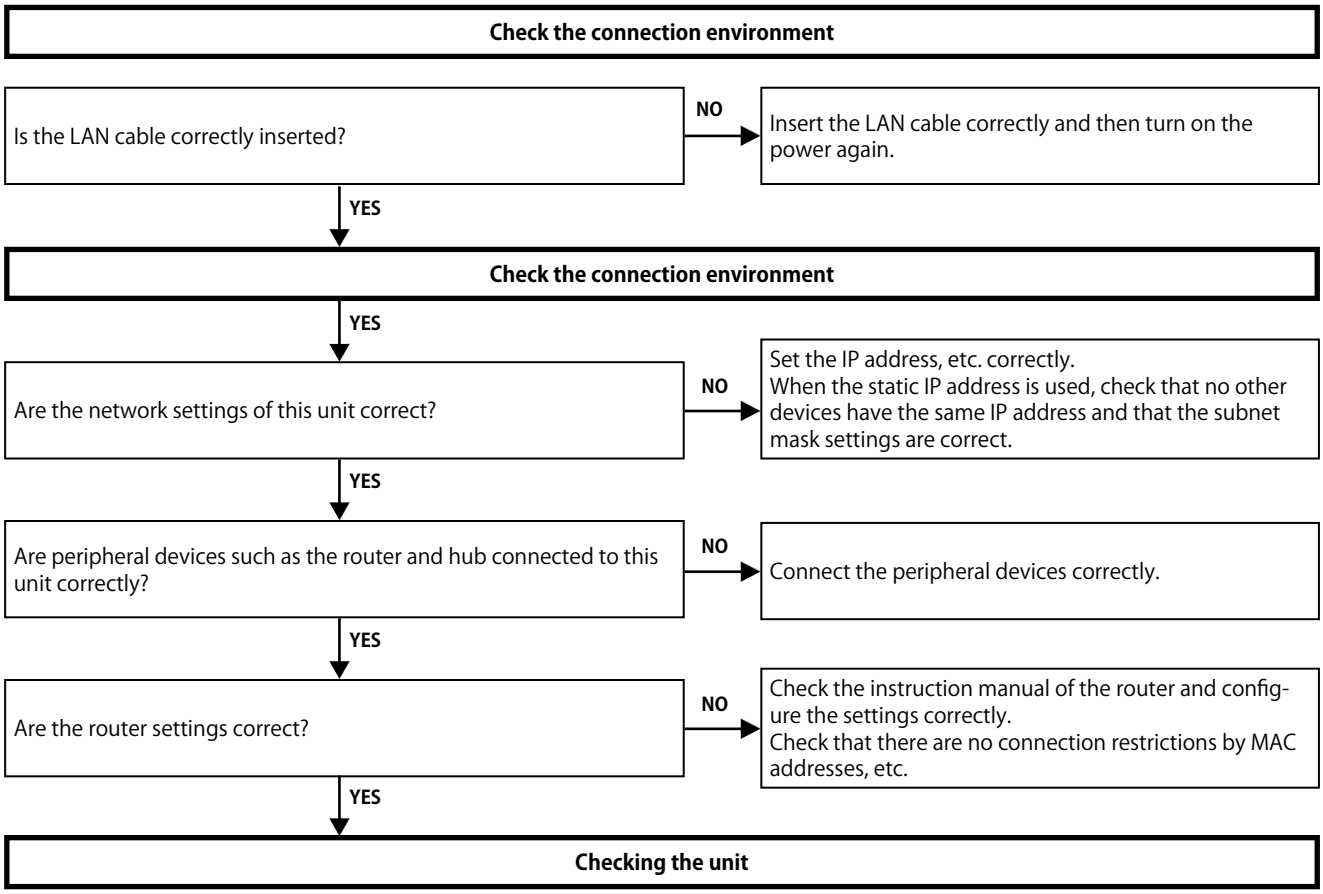


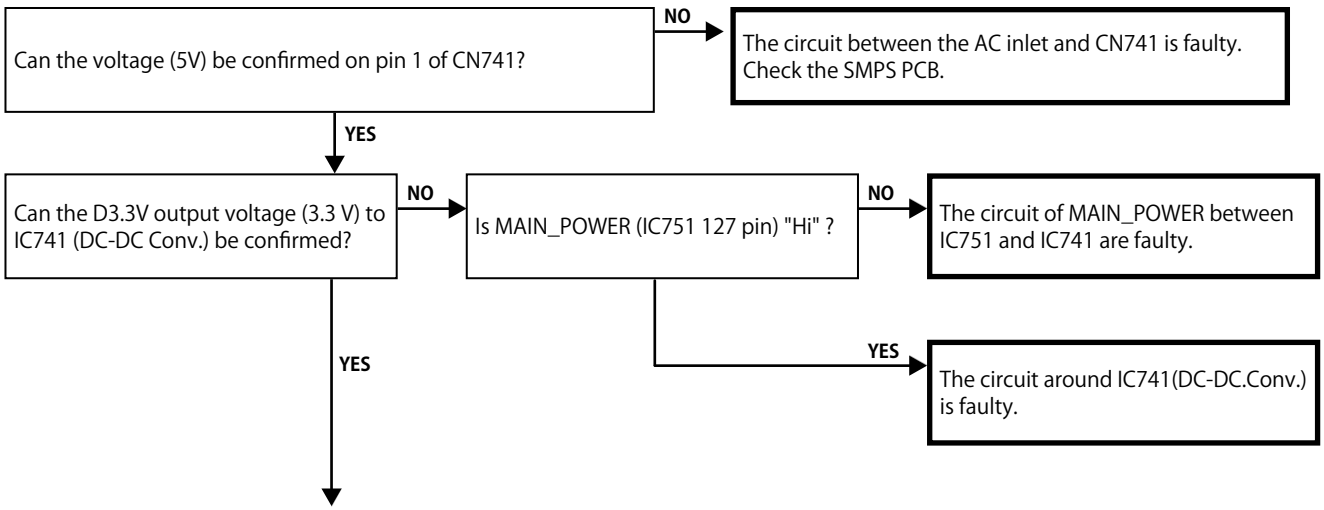
4.3. Analog audio

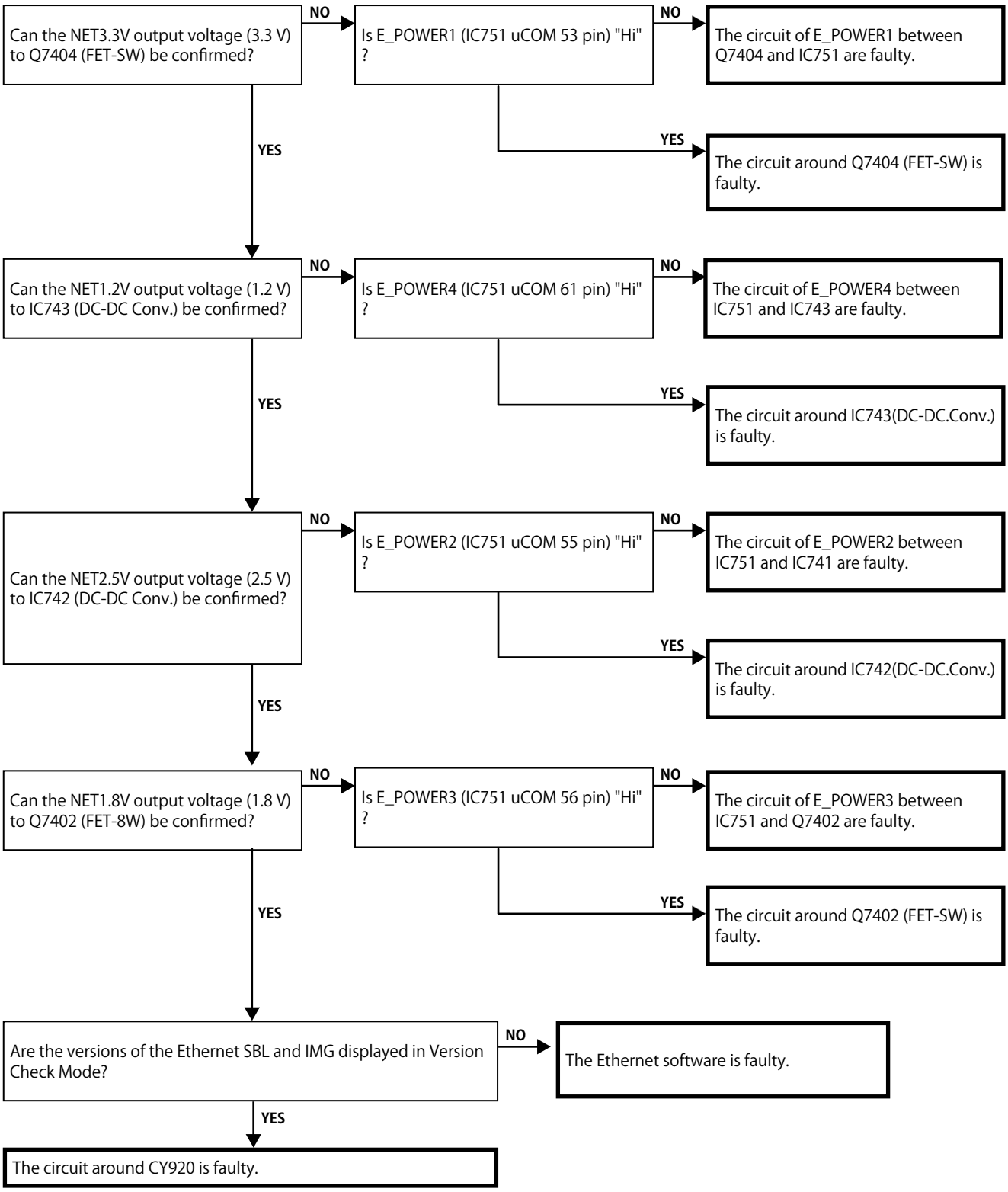


5. Network/Bluetooth/USB

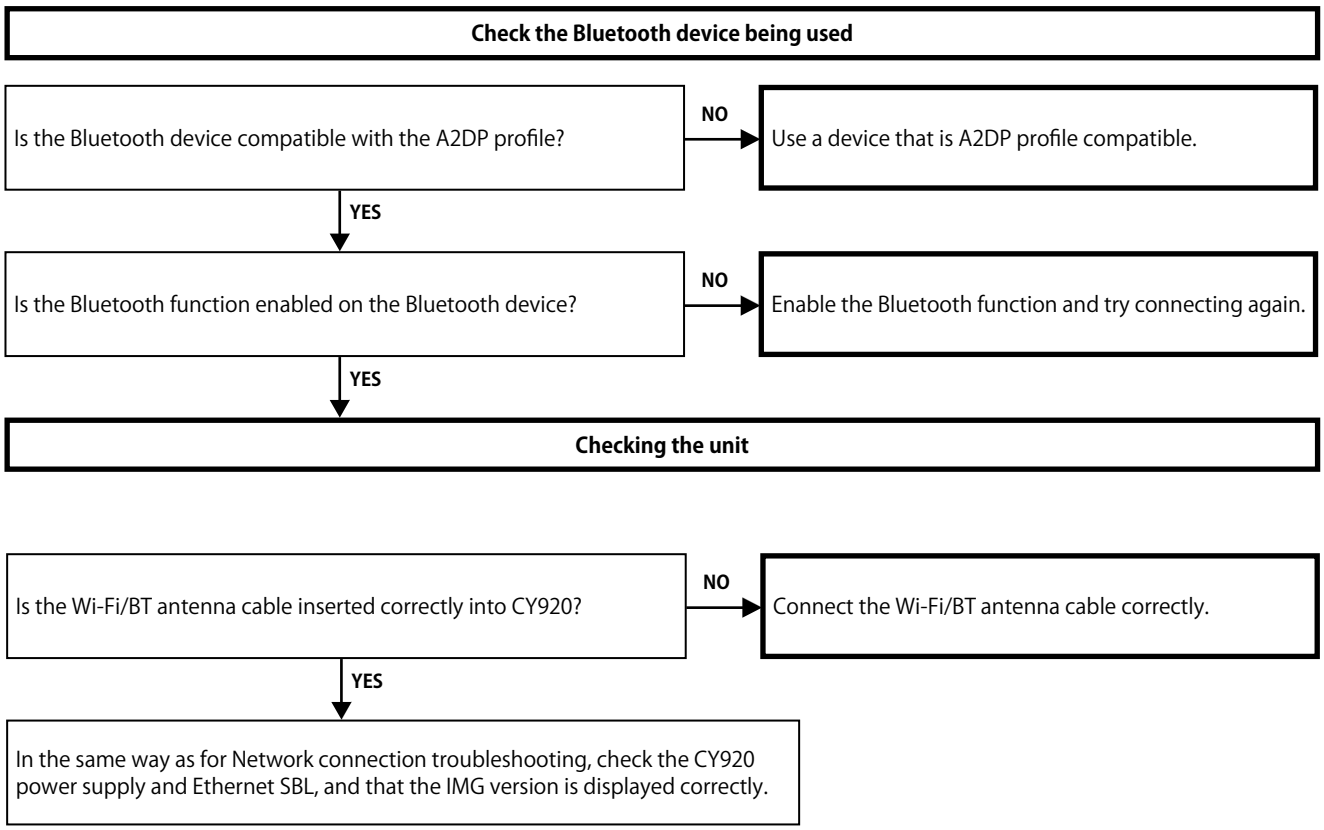
5.1. Cannot connect to the network



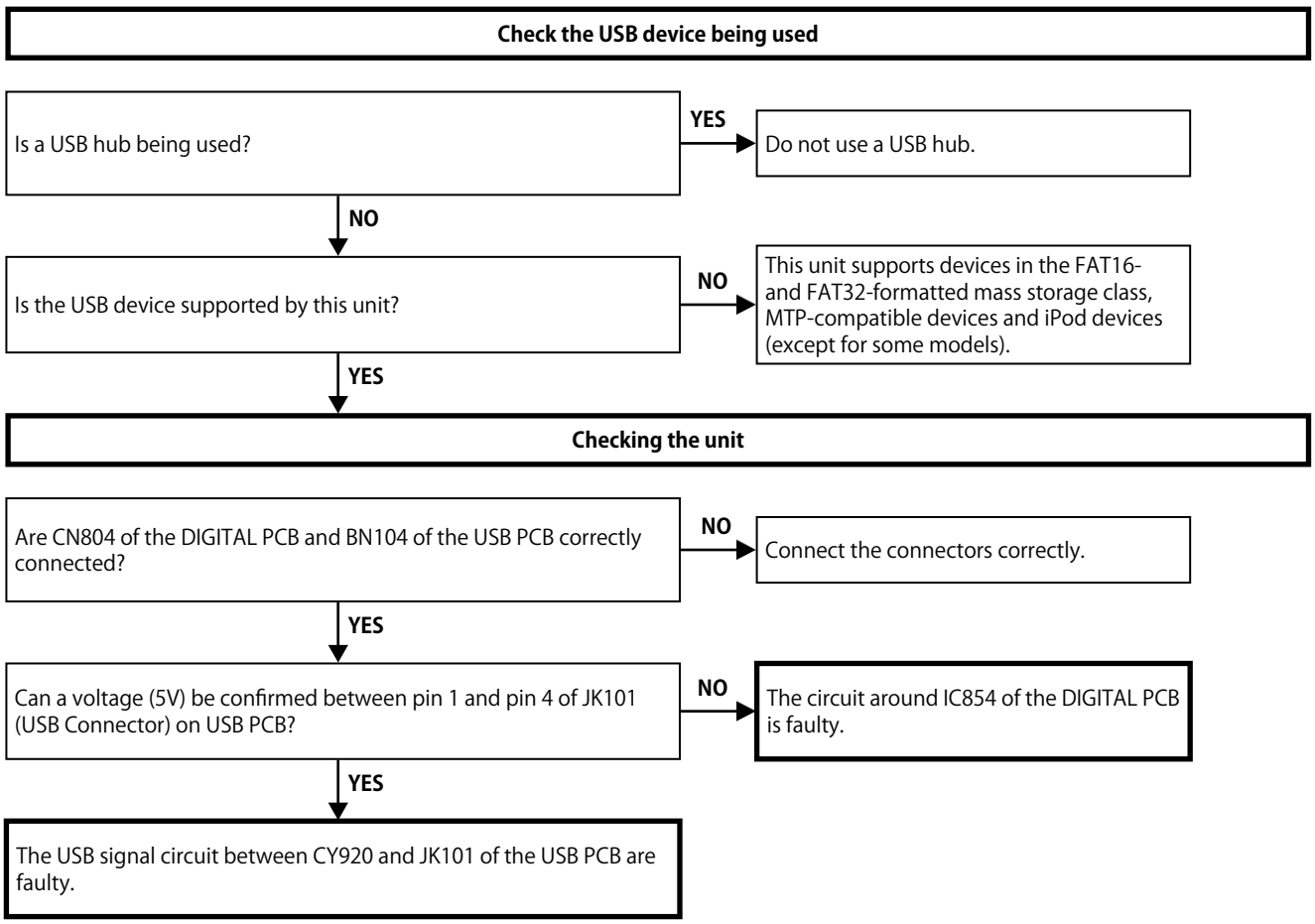



Can the NET3.3V output voltage (3.3 V) to Q7404 (FET-SW) be confirmed?
NO
Is E_POWER1 (IC751 uCOM 53 pin) "Hi" ?
NO
The circuit of E_POWER1 between Q7404 and IC751 are faulty.
YES
The circuit around Q7404 (FET-SW) is faulty.
YES
Can the NET1.2V output voltage (1.2 V) to IC743 (DC-DC Conv.) be confirmed?
NO
Is E_POWER4 (IC751 uCOM 61 pin) "Hi" ?
NO
The circuit of E_POWER4 between IC751 and IC743 are faulty.
YES
The circuit around IC743(DC-DC.Conv.) is faulty.
YES
Can the NET2.5V output voltage (2.5 V) to IC742 (DC-DC Conv.) be confirmed?
NO
Is E_POWER2 (IC751 uCOM 55 pin) "Hi" ?
NO
The circuit of E_POWER2 between IC751 and IC741 are faulty.
YES
The circuit around IC742(DC-DC.Conv.) is faulty.
YES
Can the NET1.8V output voltage (1.8 V) to Q7402 (FET-8W) be confirmed?
NO
Is E_POWER3 (IC751 uCOM 56 pin) "Hi" ?
NO
The circuit of E_POWER3 between IC751 and Q7402 are faulty.
YES
The circuit around Q7402 (FET-SW) is faulty.
YES
Are the versions of the Ethernet SBL and IMG displayed in Version Check Mode?
NO
The Ethernet software is faulty.
YES
The circuit around CY920 is faulty.

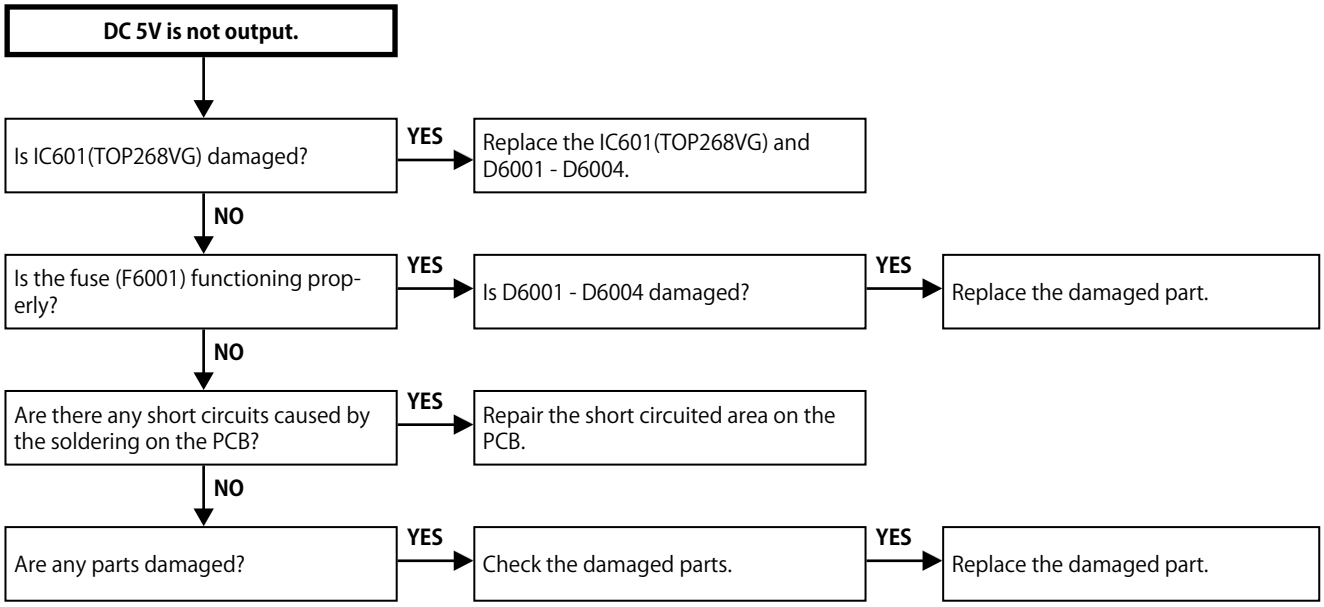
5.2. Cannot establish a Bluetooth connection



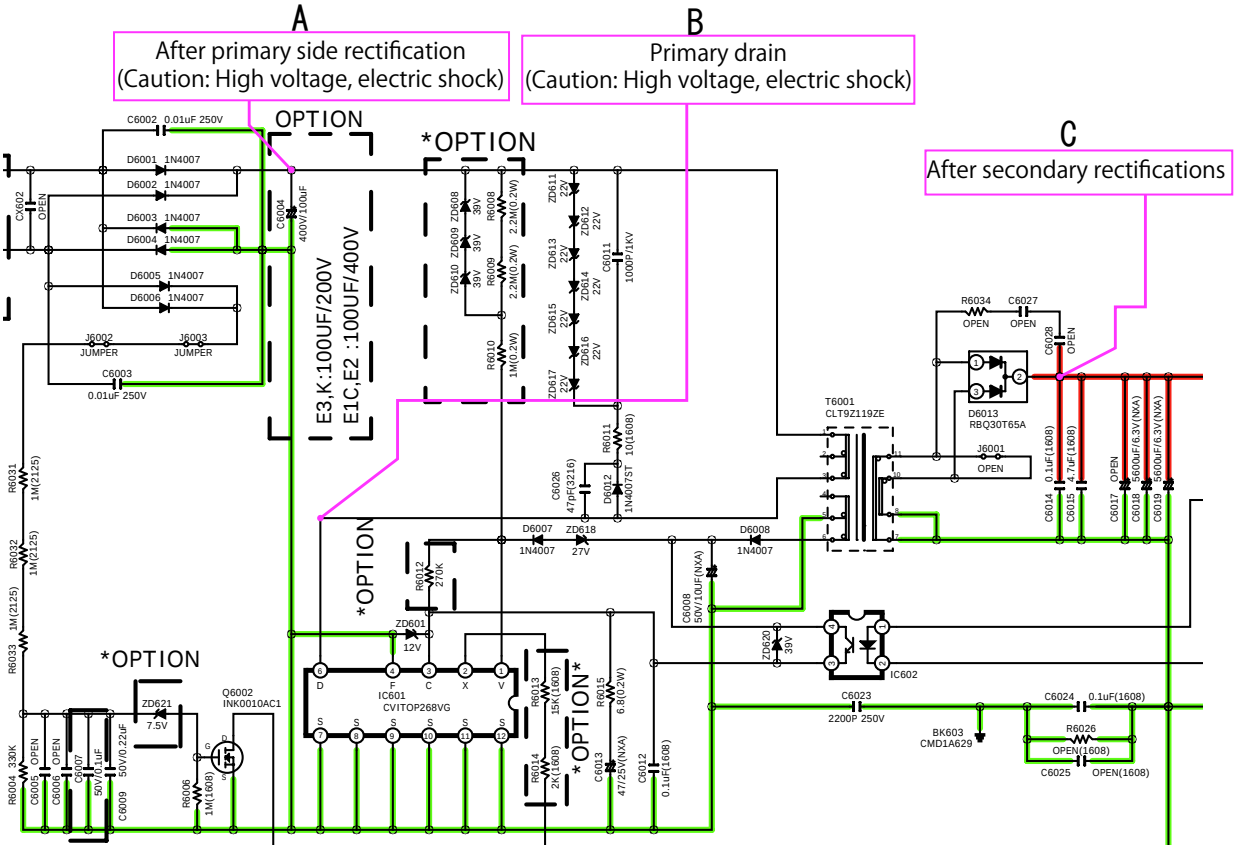
5.3. Cannot recognize the connected USB device



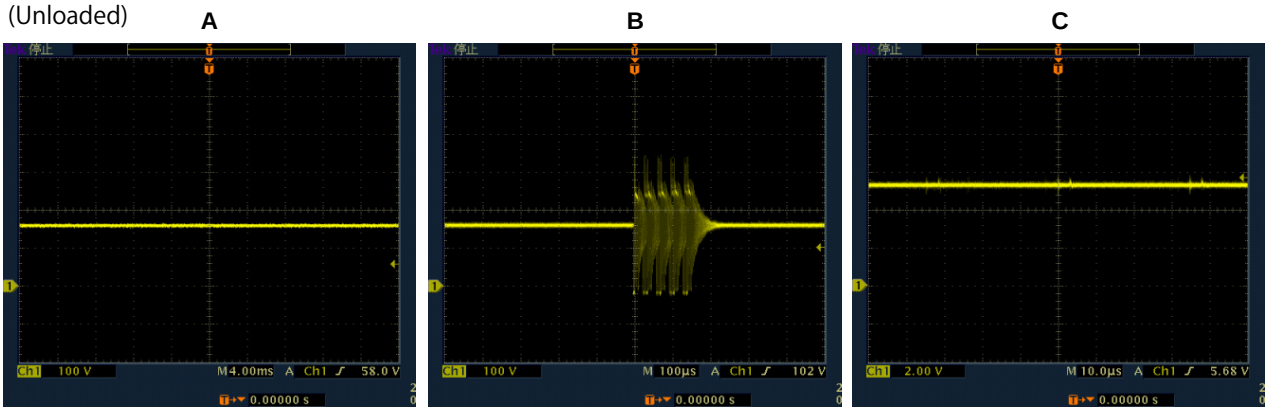
6. SMPS


DC 5V is not output.
Is IC601(TOP268VG) damaged?
YES
Replace the IC601(TOP268VG) and D6001 - D6004.
NO
Is the fuse (F6001) functioning properly?
YES
Is D6001 - D6004 damaged?
YES
Replace the damaged part.
NO
Are there any short circuits caused by the soldering on the PCB?
YES
Repair the short circuited area on the PCB.
NO
Are any parts damaged?
YES
Check the damaged parts.
YES
Replace the damaged part.

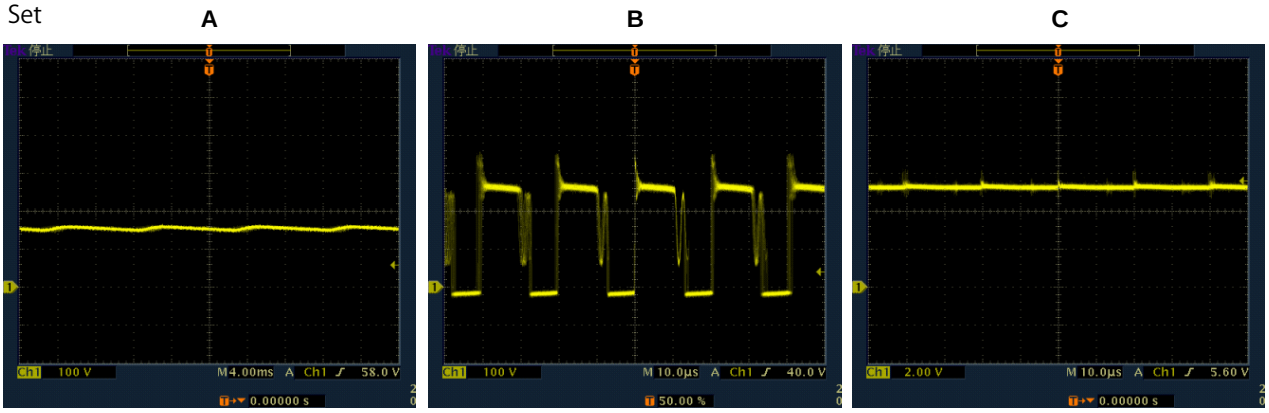
Operation waveform for each part



SMPS unit
(Unloaded)

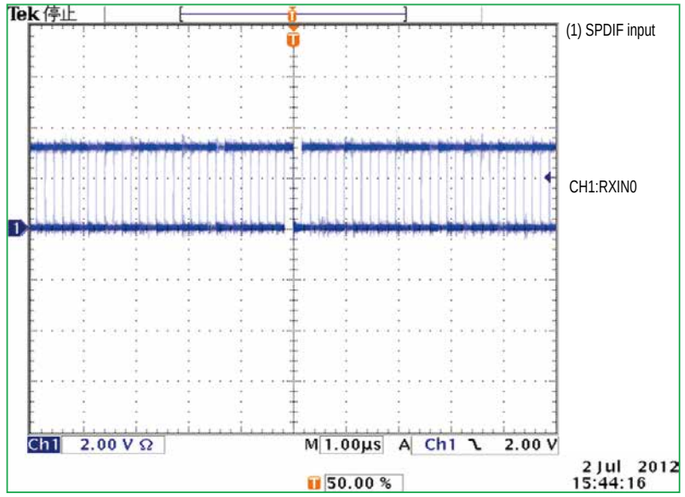


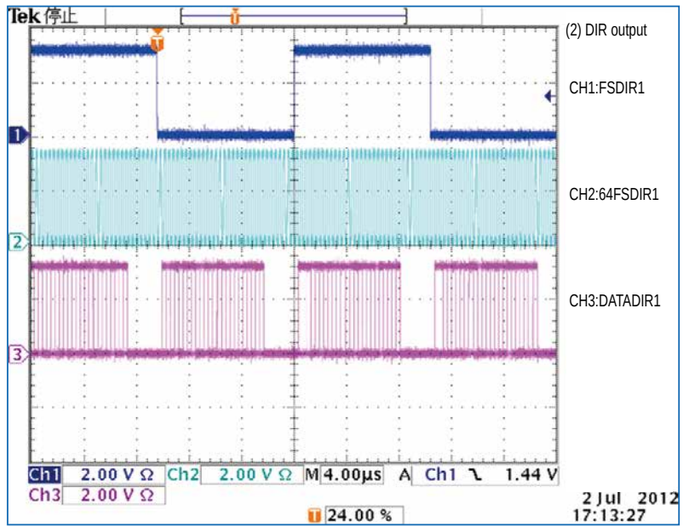
Set

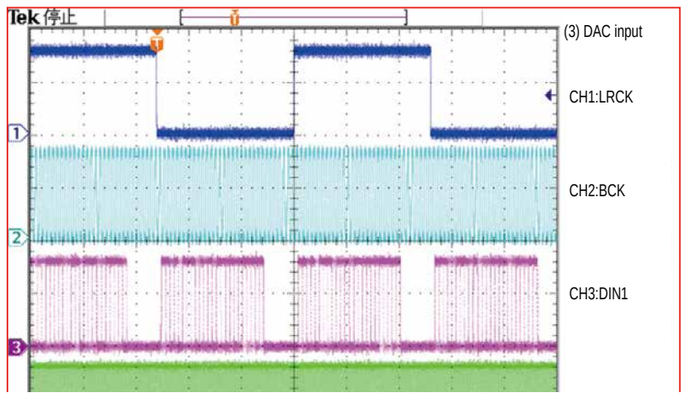


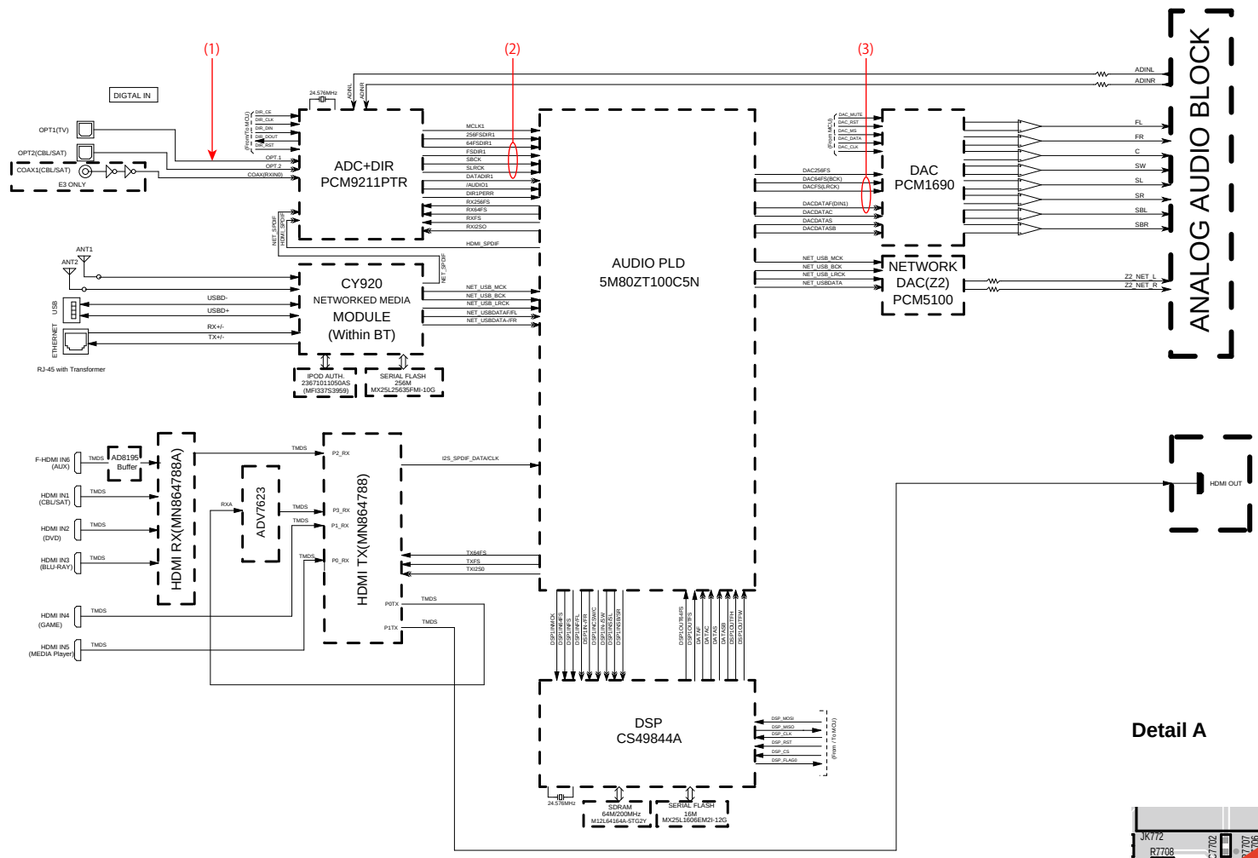
CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

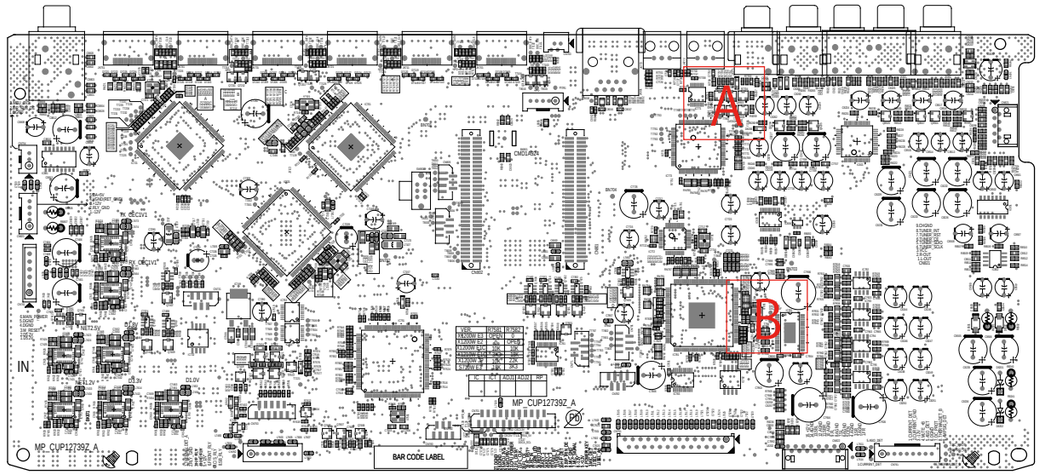
WAVE FORM



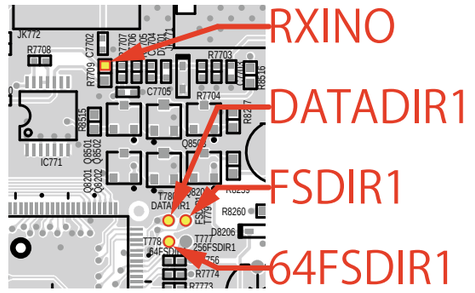




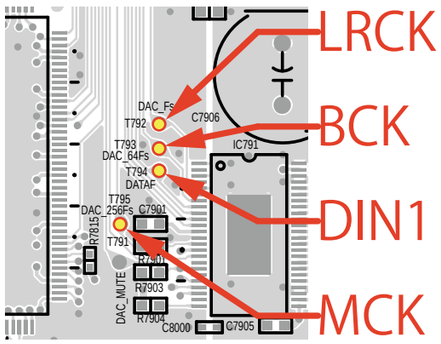




Detail A

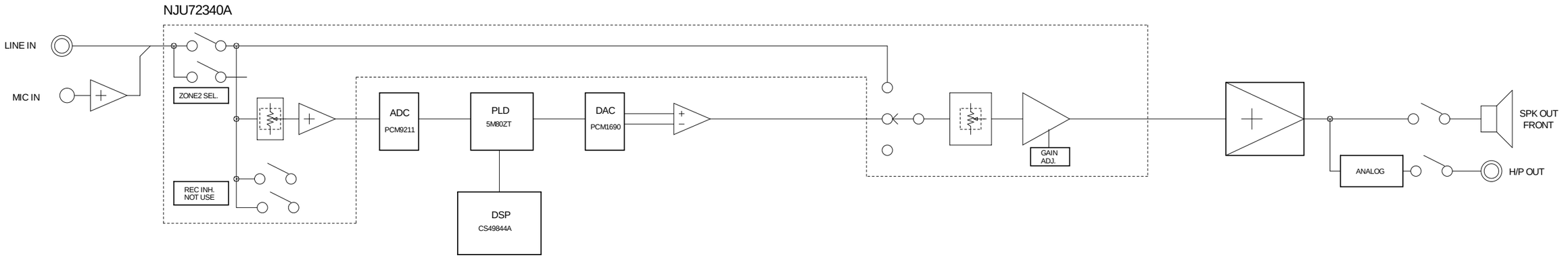


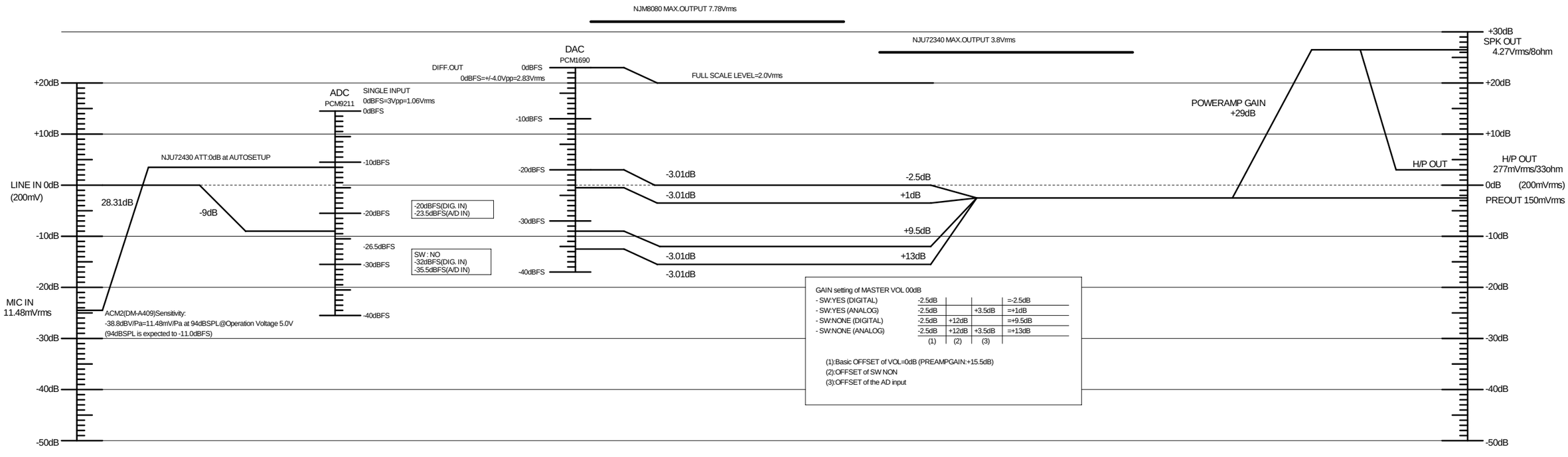
Detail B



LEVEL DIAGRAM

FRONT CHANNEL



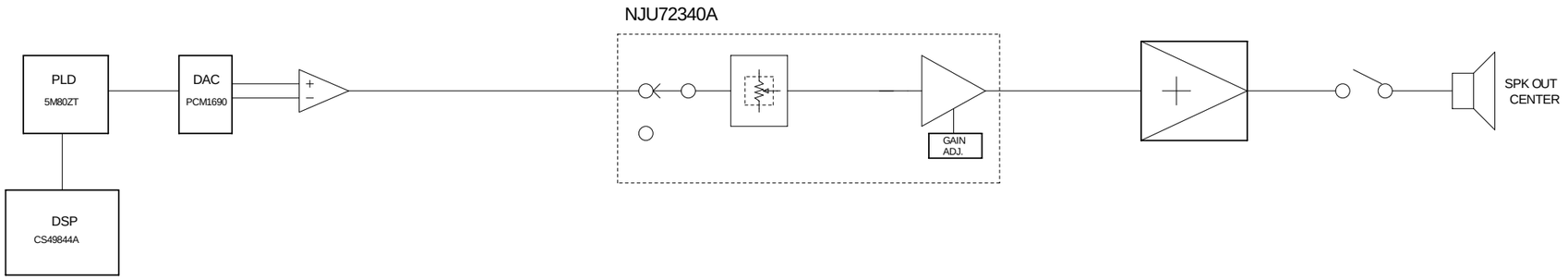


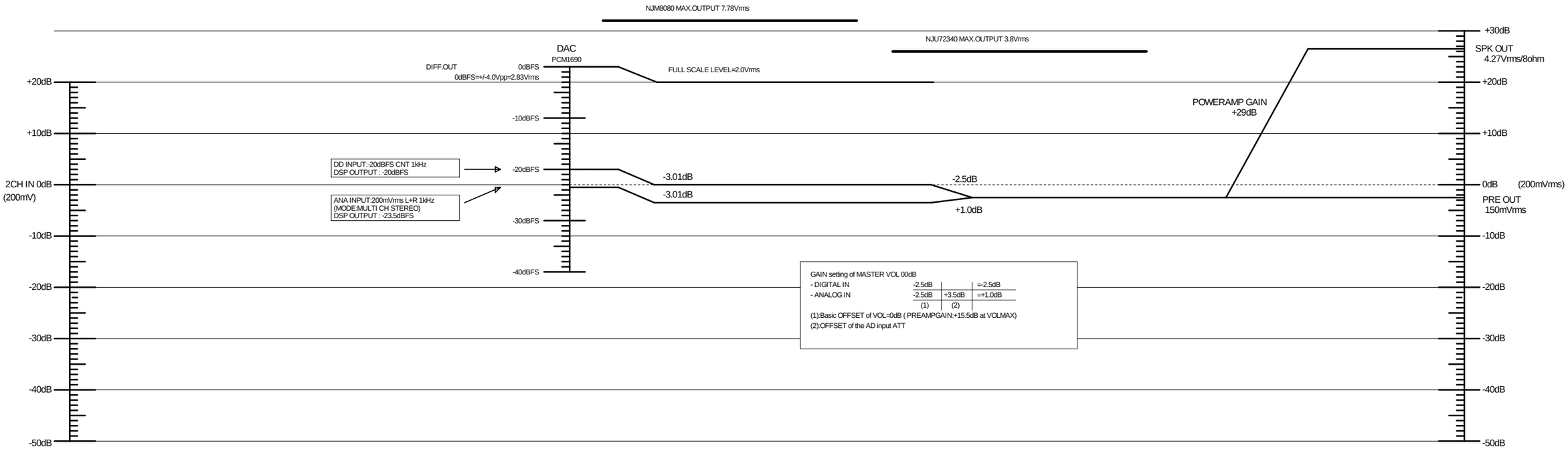
GAIN setting of MASTER VOL 00dB

- SW:YES (DIGITAL)	-2.5dB			=-2.5dB
- SW:YES (ANALOG)	-2.5dB		+3.5dB	=+1dB
- SW:NONE (DIGITAL)	-2.5dB	+12dB		=+9.5dB
- SW:NONE (ANALOG)	-2.5dB	+12dB	+3.5dB	=+13dB
	(1)	(2)	(3)	

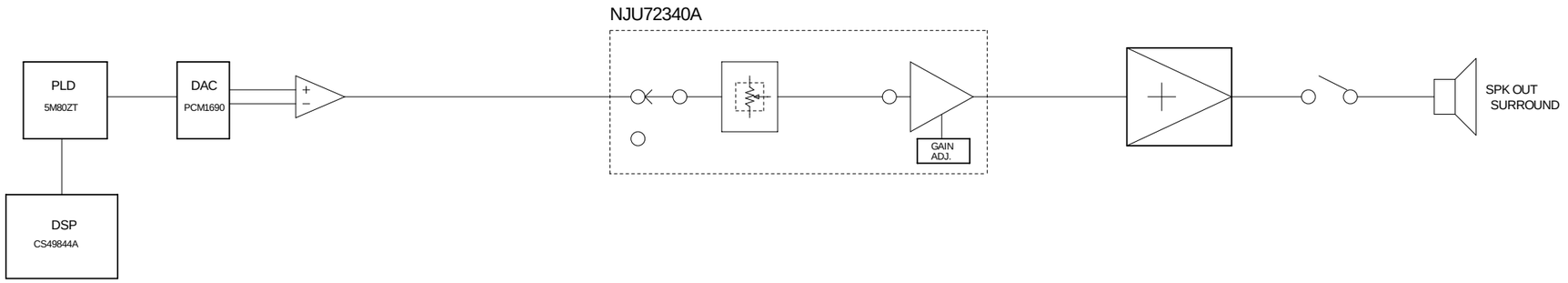
(1):Basic OFFSET of VOL=0dB (PREAMPGAIN:+15.5dB)
(2):OFFSET of SW NON
(3):OFFSET of the AD input

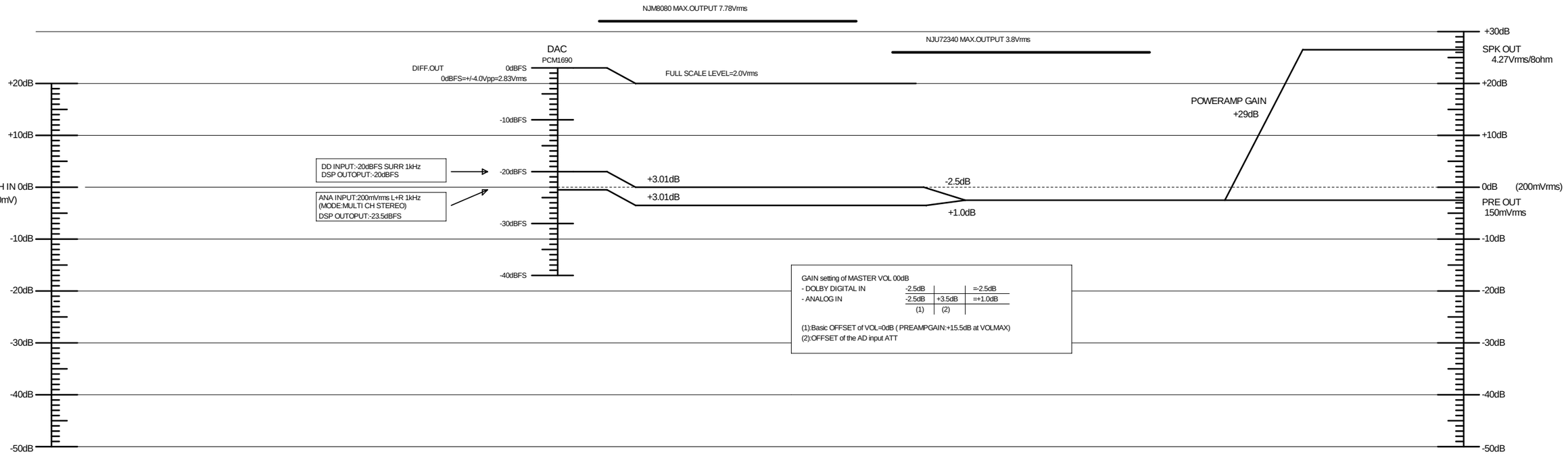
CENTER CHANNEL



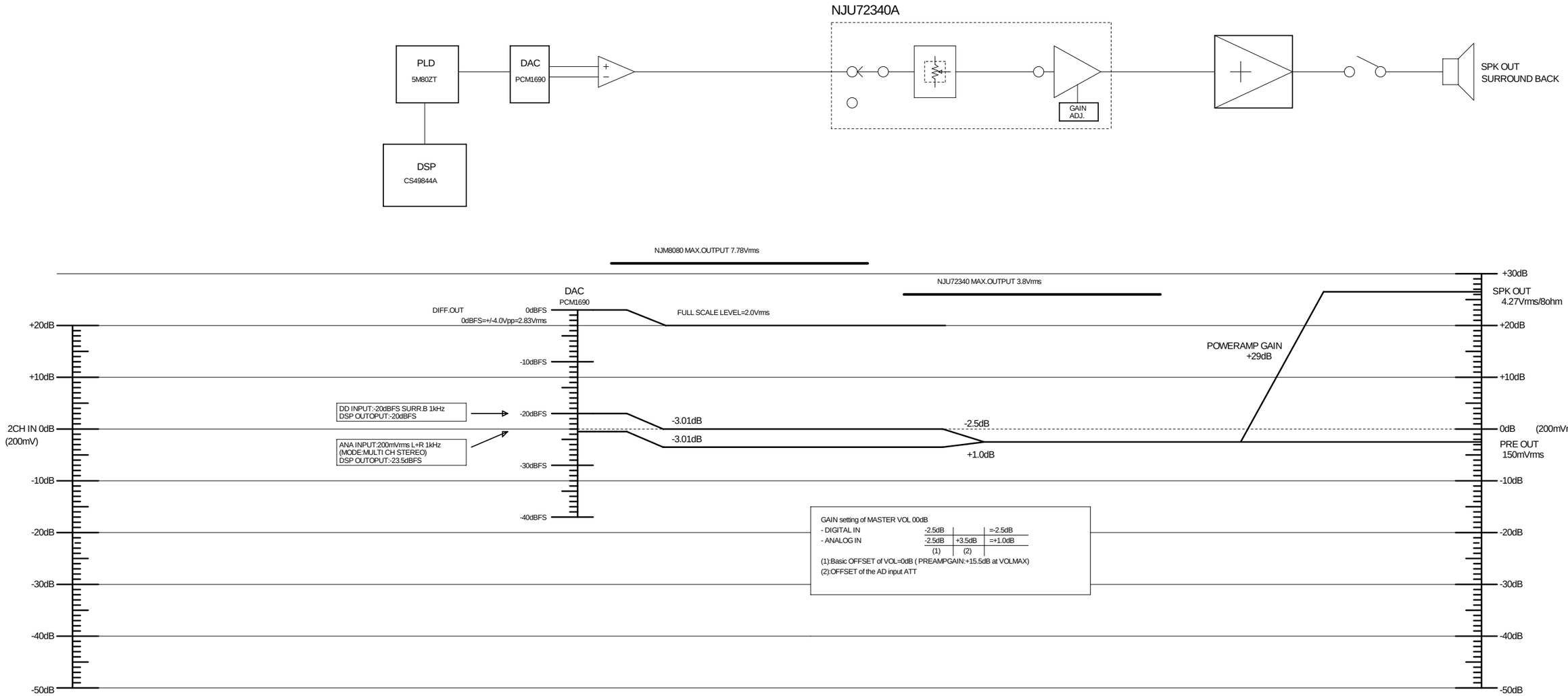


SURROUND CHANNEL

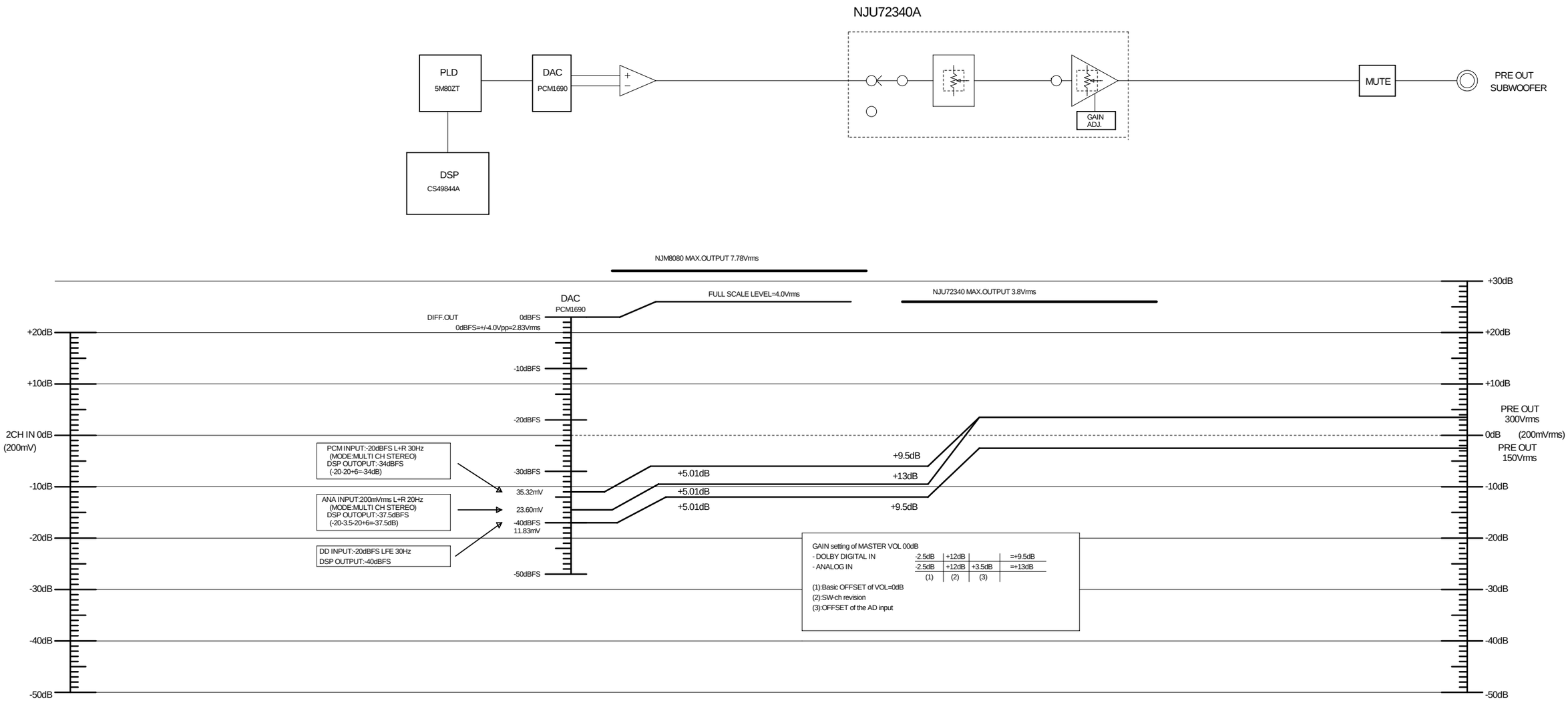




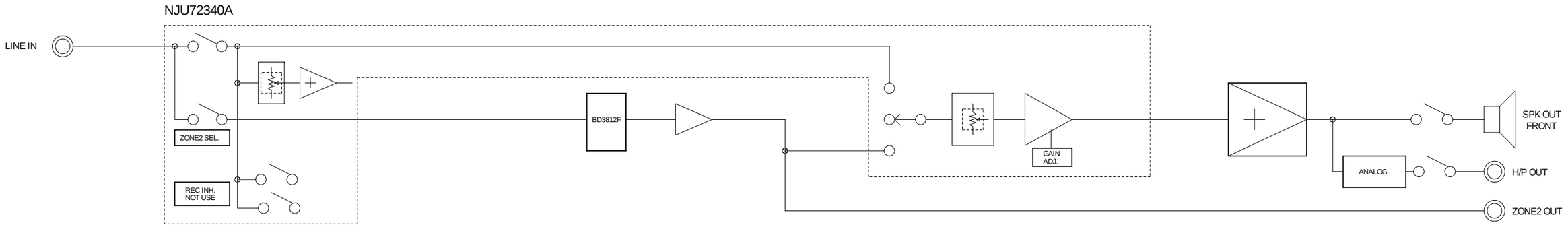
SURROUND BACK CHANNEL

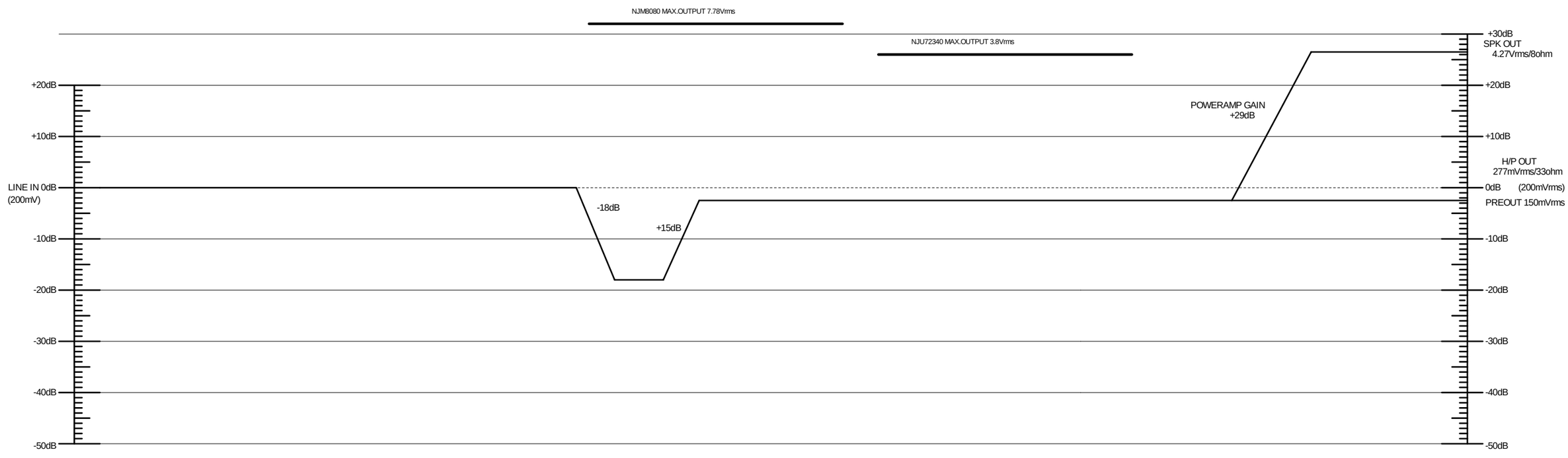


SUBWOOFER CHANNEL



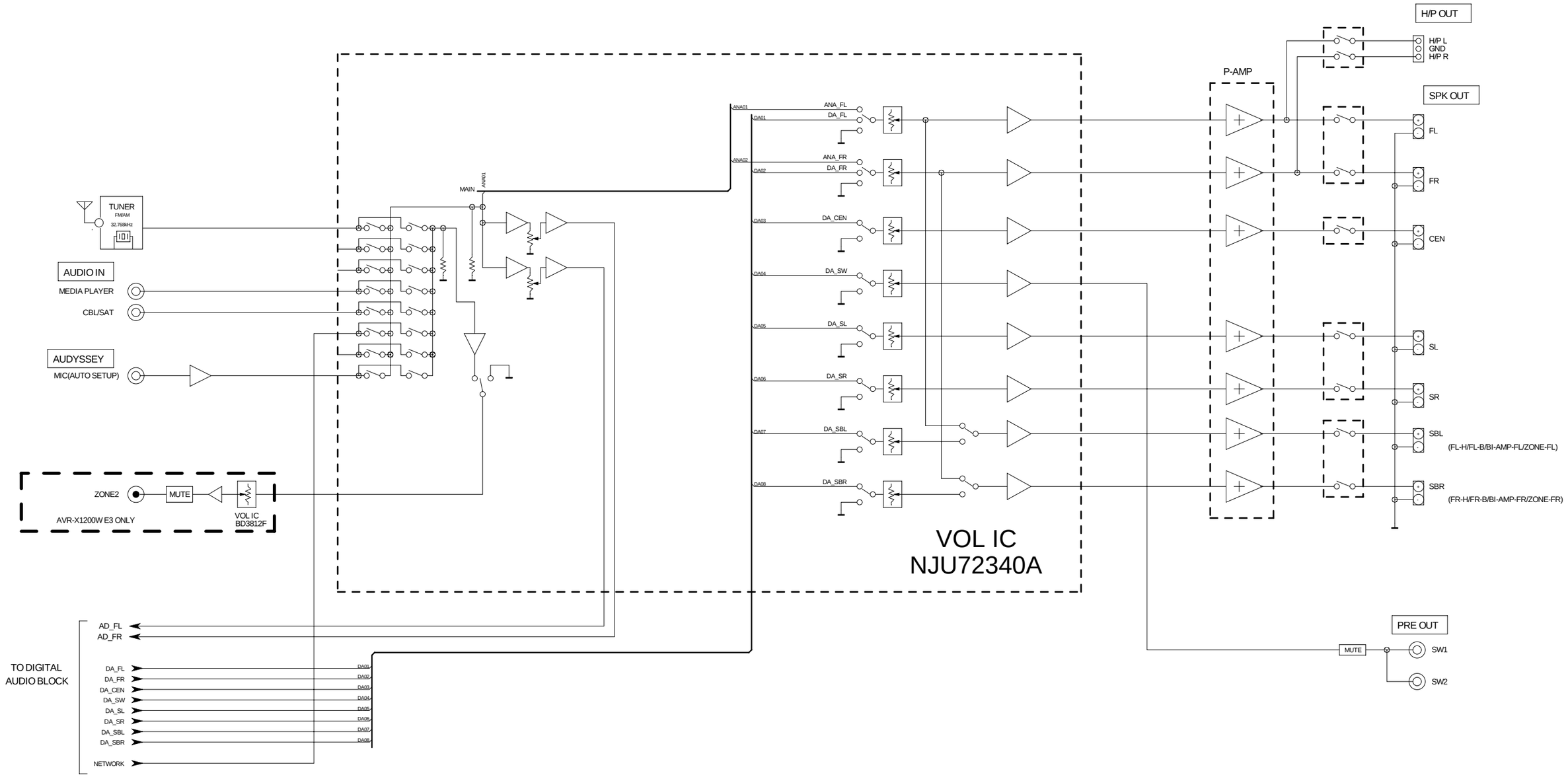
ZONE2


NJU72340A
LINE IN
ZONE2 SEL.
REC INH.
NOT USE
BD3812F
GAIN
ADJ.
ANALOG
SPK OUT
FRONT
H/P OUT
ZONE2 OUT

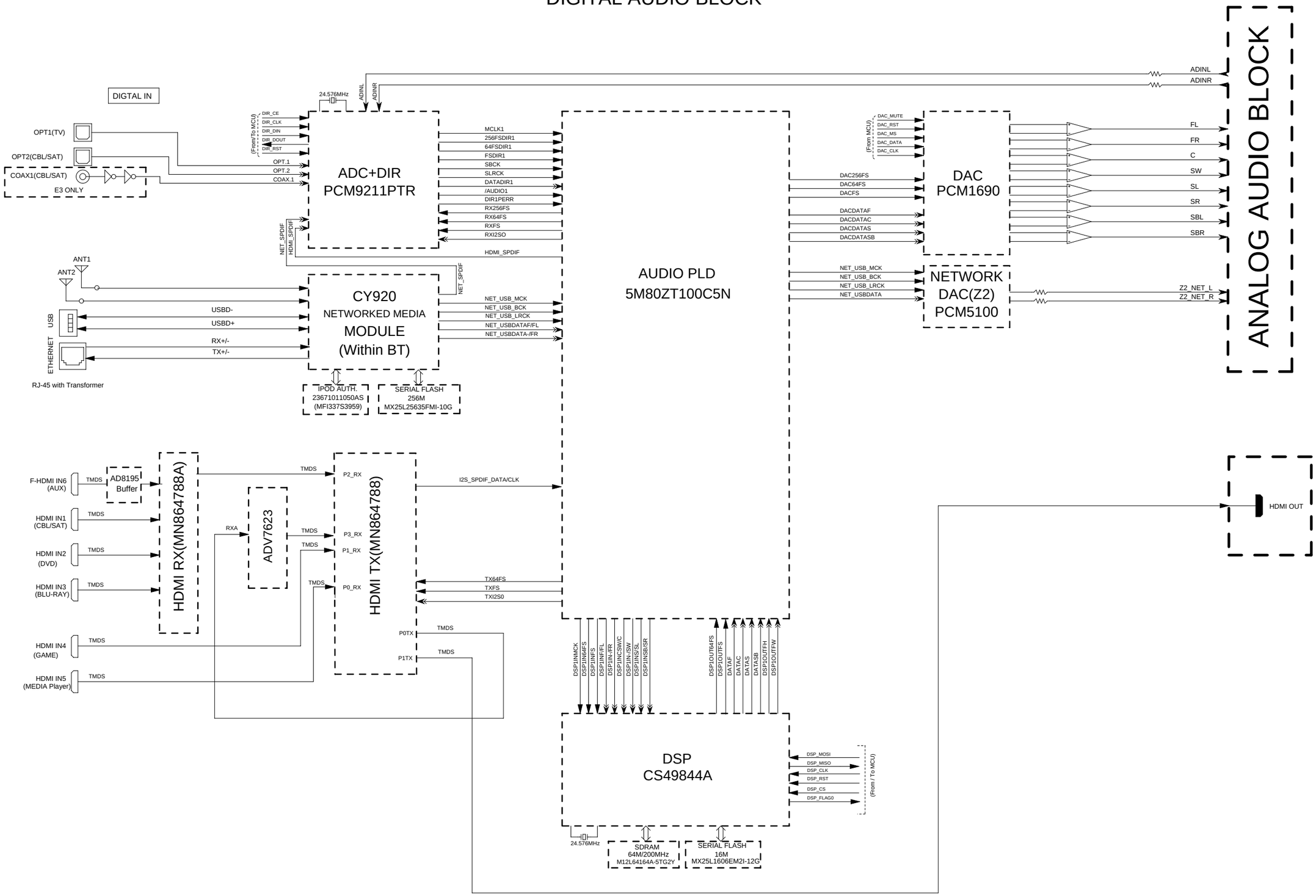

NJM8080 MAX.OUTPUT 7.78Vrms
NJU72340 MAX.OUTPUT 3.8Vrms
+30dB
SPK OUT
4.27Vrms/8ohm
+20dB
+10dB
0dB
-10dB
-20dB
-30dB
-40dB
-50dB
LINE IN 0dB
(200mV)
-18dB
+15dB
POWERAMP GAIN
+29dB
H/P OUT
277mVrms/33ohm
(200mVrms)
PREOUT 150mVrms

BLOCK DIAGRAM

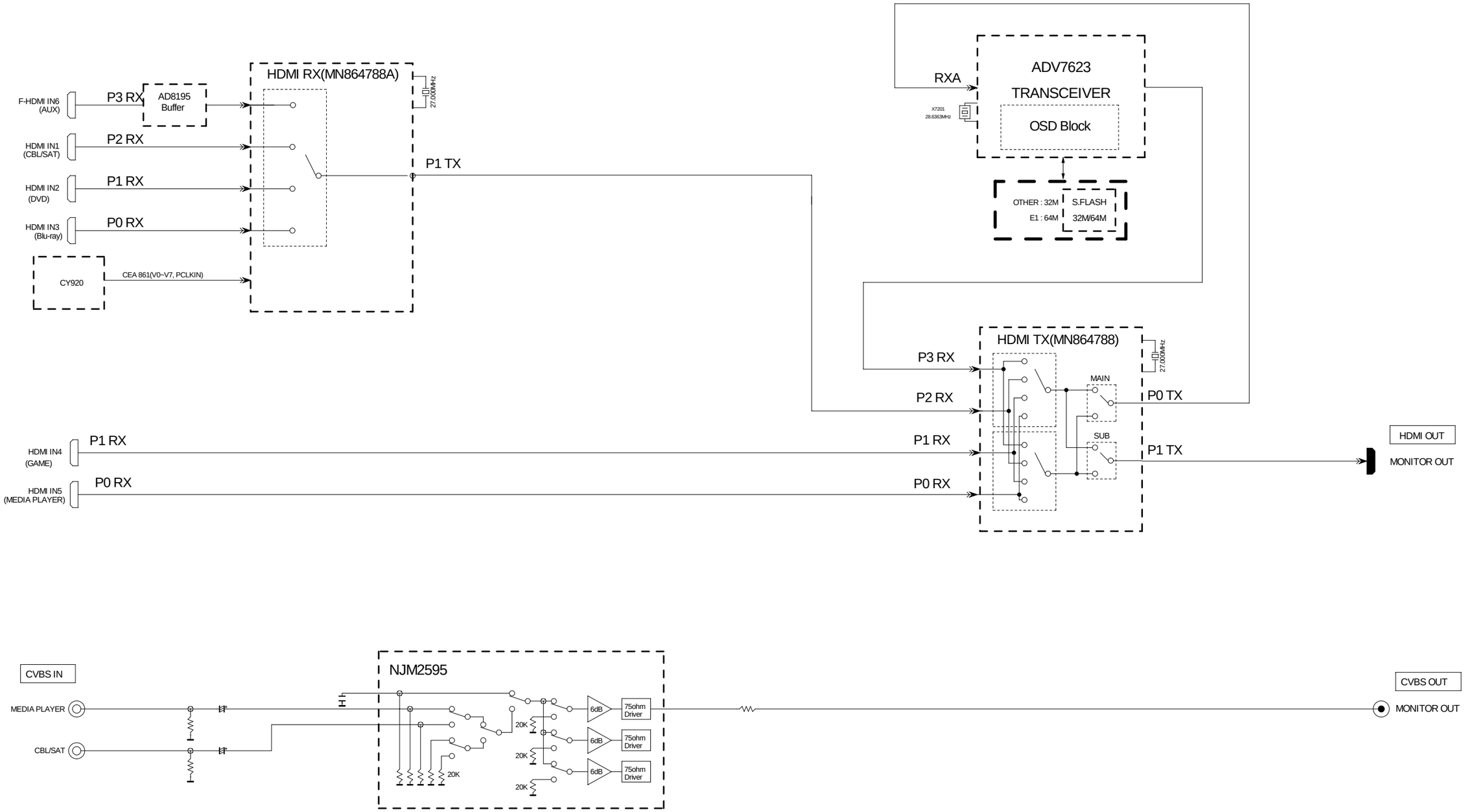
ANALOG AUDIO BLOCK



DIGITAL AUDIO BLOCK

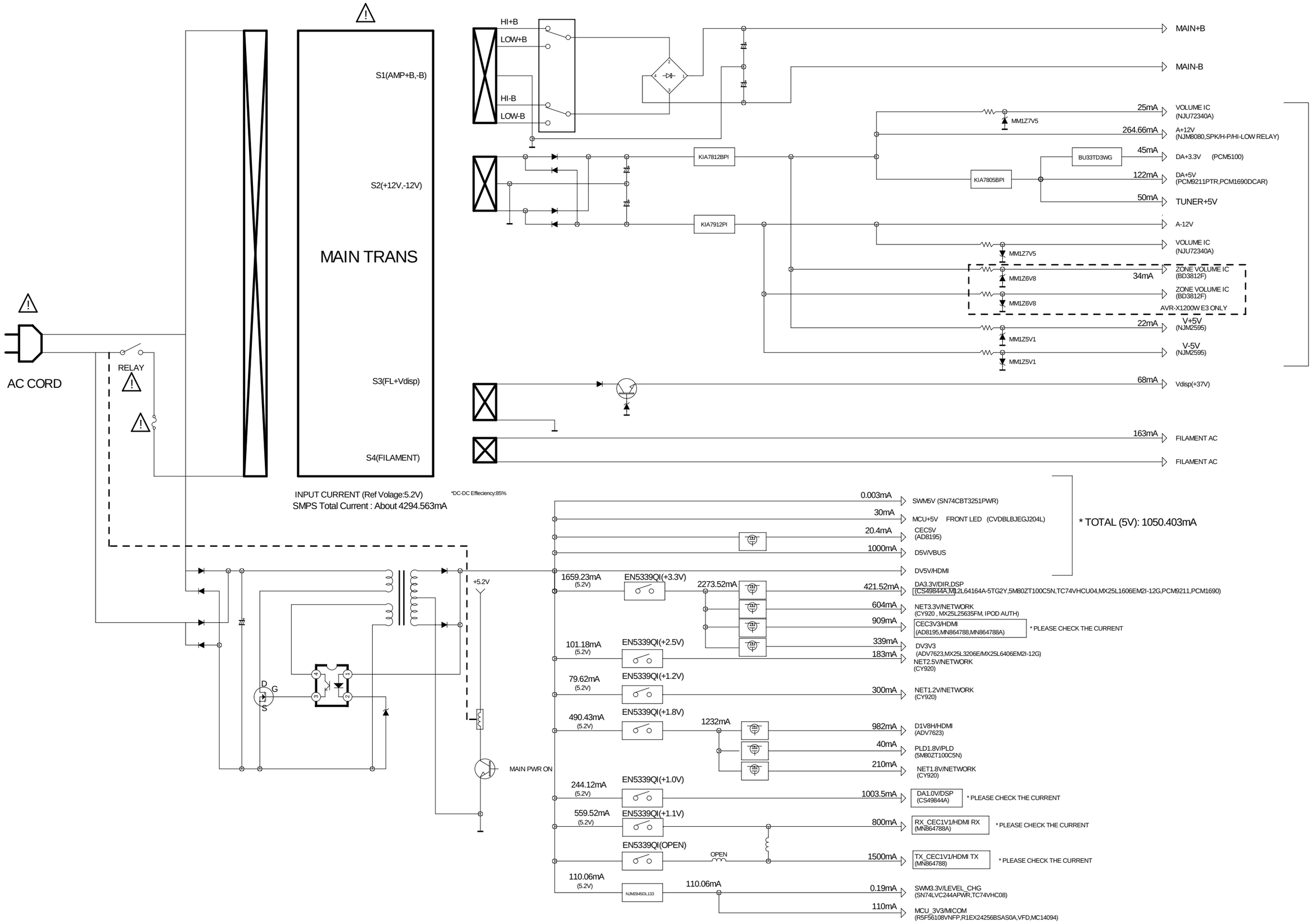


VIDEO BLOCK

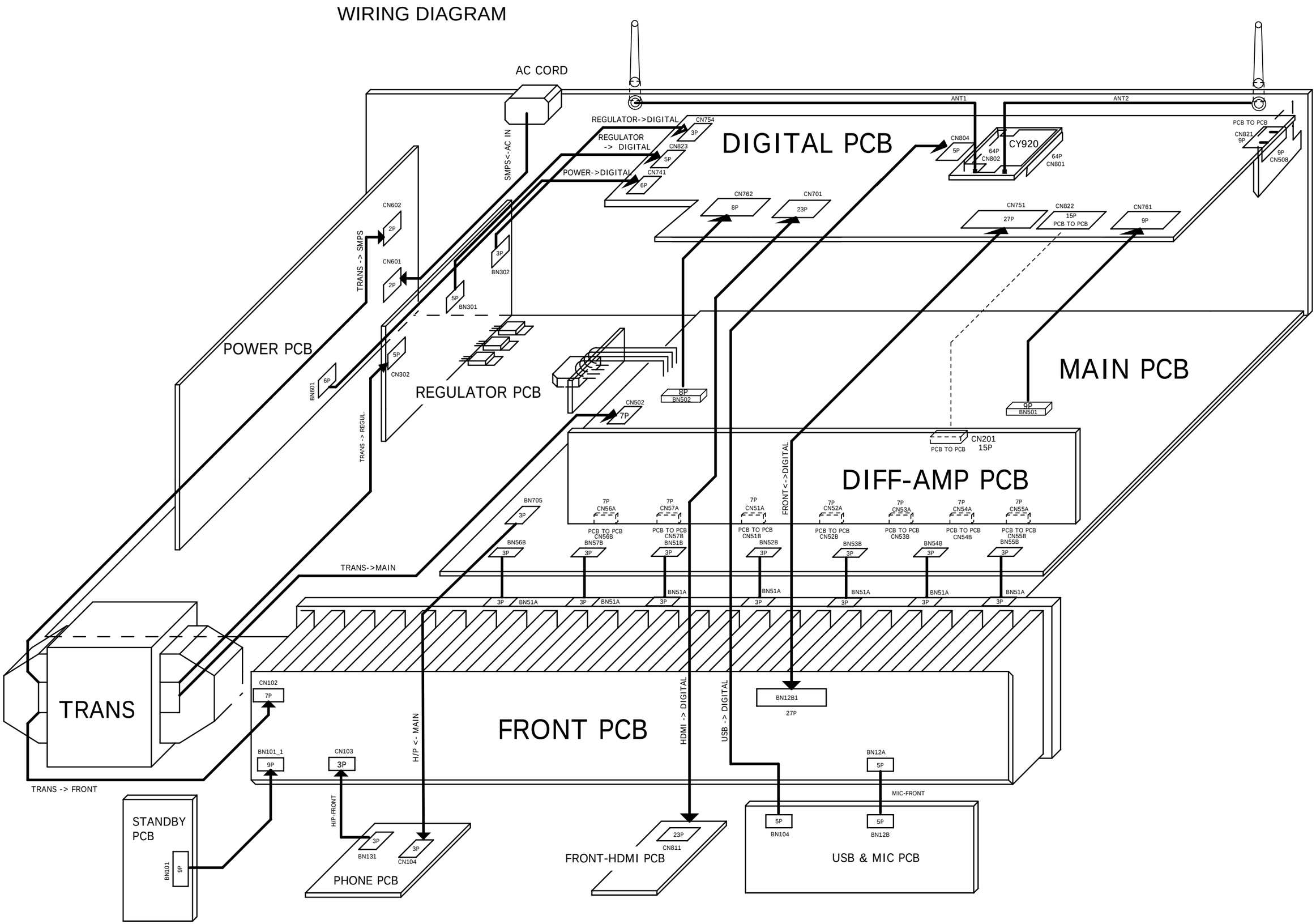

HDMI RX(MN864788A)
27.000MHz
F-HDMI IN6
(AUX)
P3 RX
AD8195
Buffer
HDMI IN1
(CBL/SAT)
P2 RX
HDMI IN2
(DVD)
P1 RX
HDMI IN3
(Blu-ray)
P0 RX
CY920
CEA 861(V0~V7, PCLKIN)
P1 TX
RXA
ADV7623
TRANSCEIVER
X7201
28.6363MHz
OSD Block
OTHER : 32M
E1 : 64M
S.FLASH
32M/64M
HDMI TX(MN864788)
27.000MHz
P3 RX
P2 RX
P1 RX
P0 RX
MAIN
SUB
P0 TX
P1 TX
HDMI IN4
(GAME)
HDMI IN5
(MEDIA PLAYER)
HDMI OUT
MONITOR OUT
CVBS IN
MEDIA PLAYER
CBL/SAT
NJM2595
20K
6dB
75ohm
Driver
CVBS OUT
MONITOR OUT

POWER DIAGRAM

VCC DIAGRAM



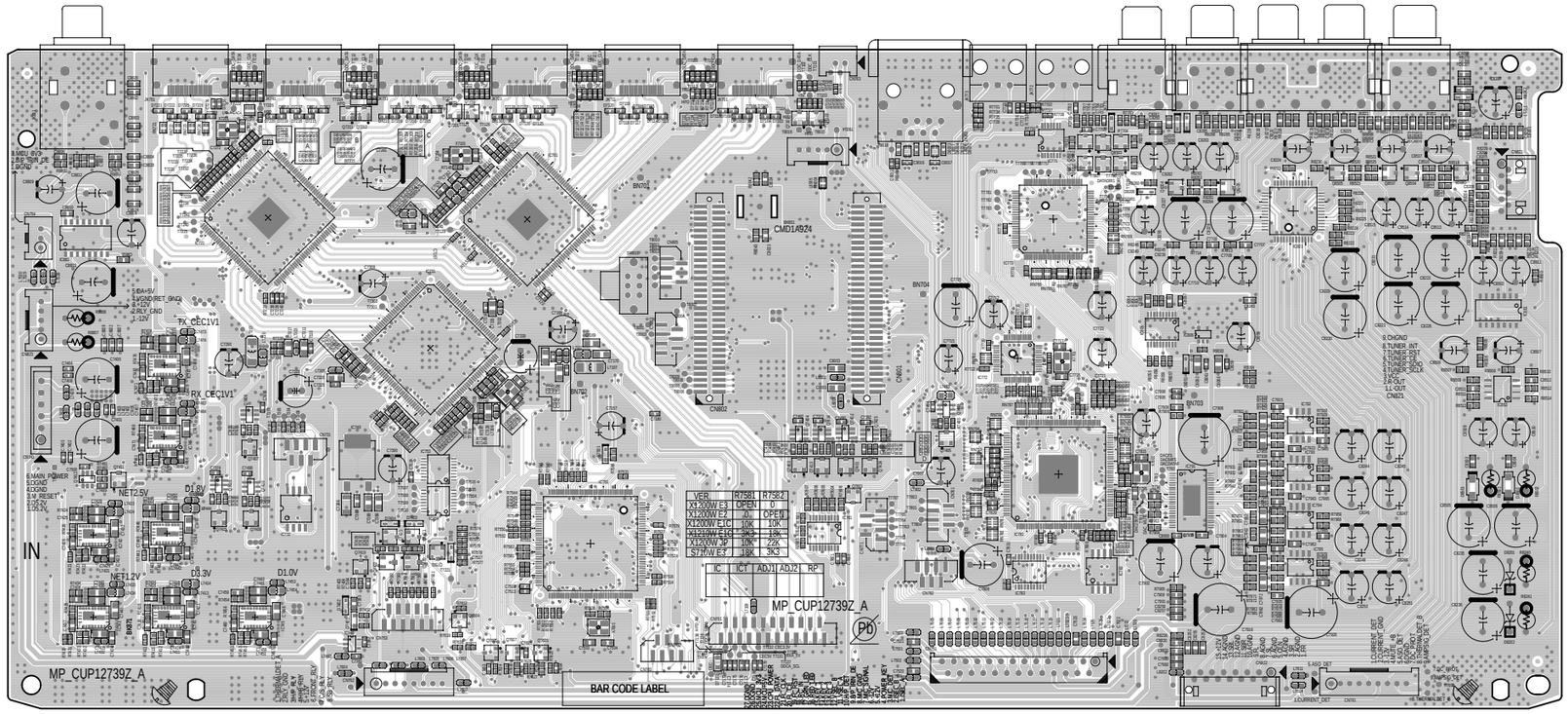
WIRING DIAGRAM



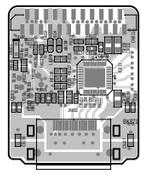
PRINTED CIRCUIT BOARDS

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

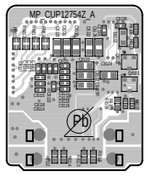
DIGITAL (A SIDE)



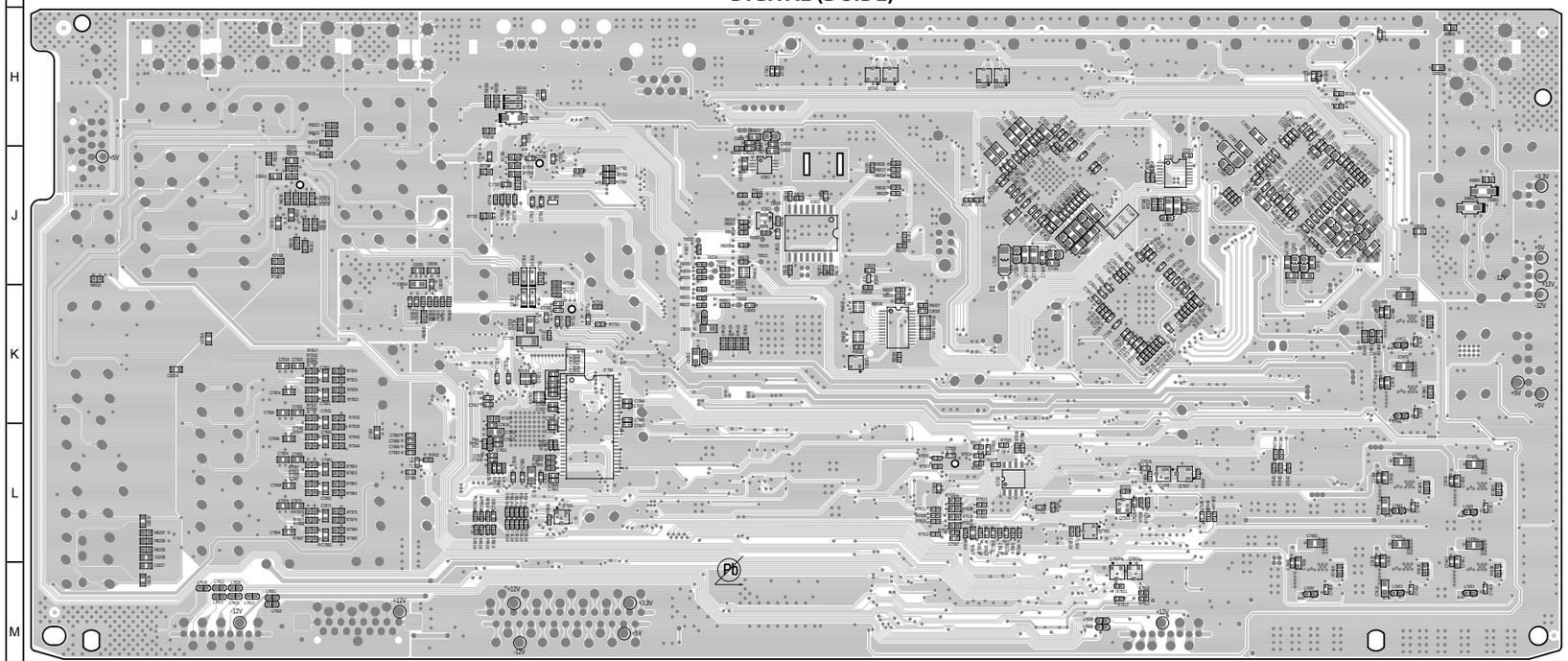
FRONT HDMI (A SIDE)



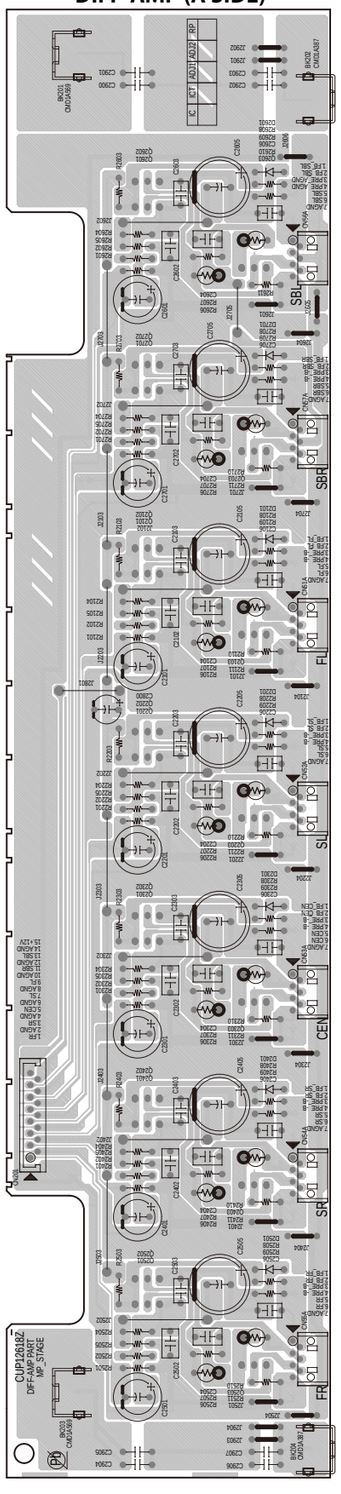
FRONT HDMI (B SIDE)



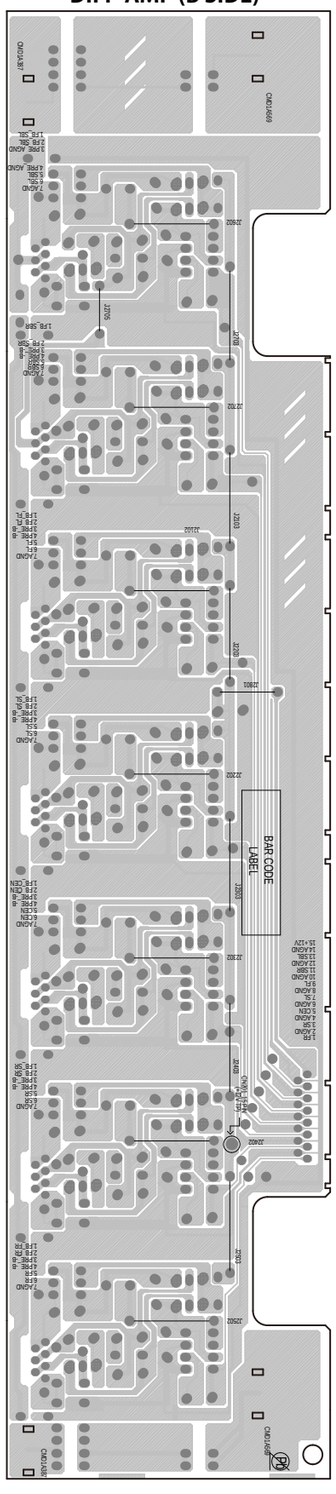
DIGITAL (B SIDE)



DIFF-AMP (A SIDE)



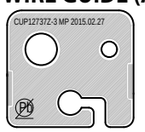
DIFF-AMP (B SIDE)



BIAS-TR (A SIDE)

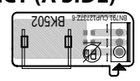
BIAS-TR (B SIDE)

PHONE WIRE GUIDE (A SIDE)

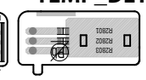


PHONE WIRE GUIDE (B SIDE)

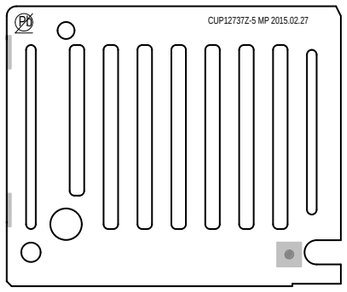
TEMP_DETECT (A SIDE)



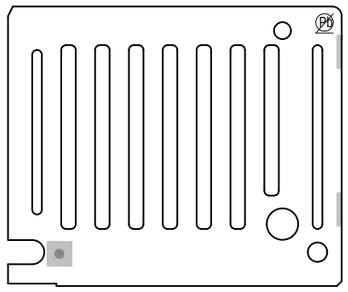
TEMP_DETECT (B SIDE)



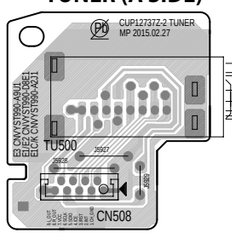
FRONT CABLE GUIDE (A SIDE)



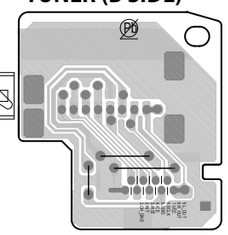
FRONT CABLE GUIDE (B SIDE)



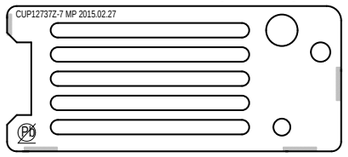
TUNER (A SIDE)



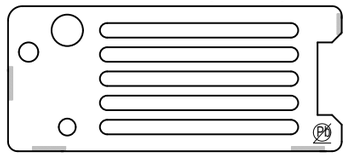
TUNER (B SIDE)



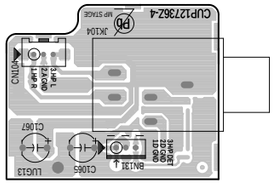
BT WIRE GUIDE (A SIDE)



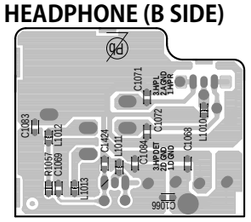
BT WIRE GUIDE (B SIDE)



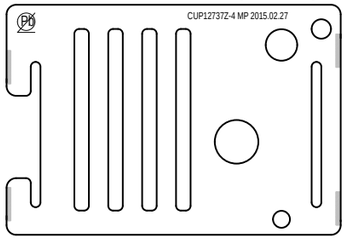
HEADPHONE (A SIDE)



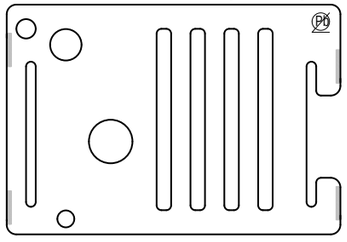
HEADPHONE (B SIDE)



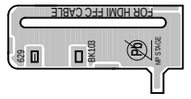
HDMI CABLE GUIDE (A SIDE)



HDMI CABLE GUIDE (B SIDE)

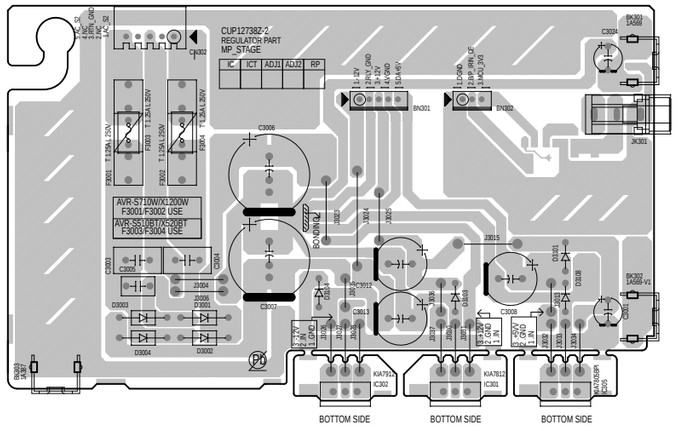


HDMI_FFC_CABLE (A SIDE)

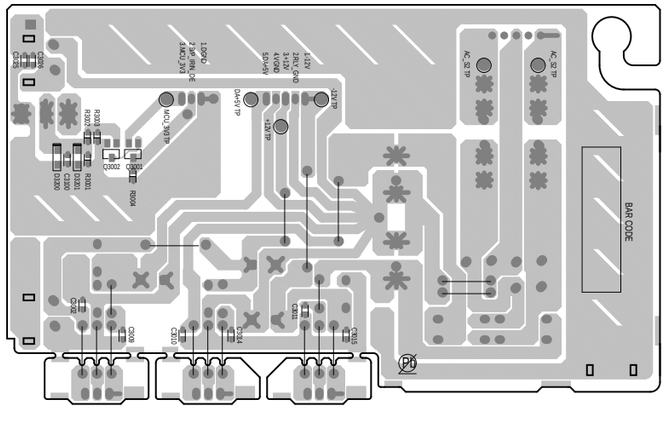


HDMI_FFC_CABLE (B SIDE)

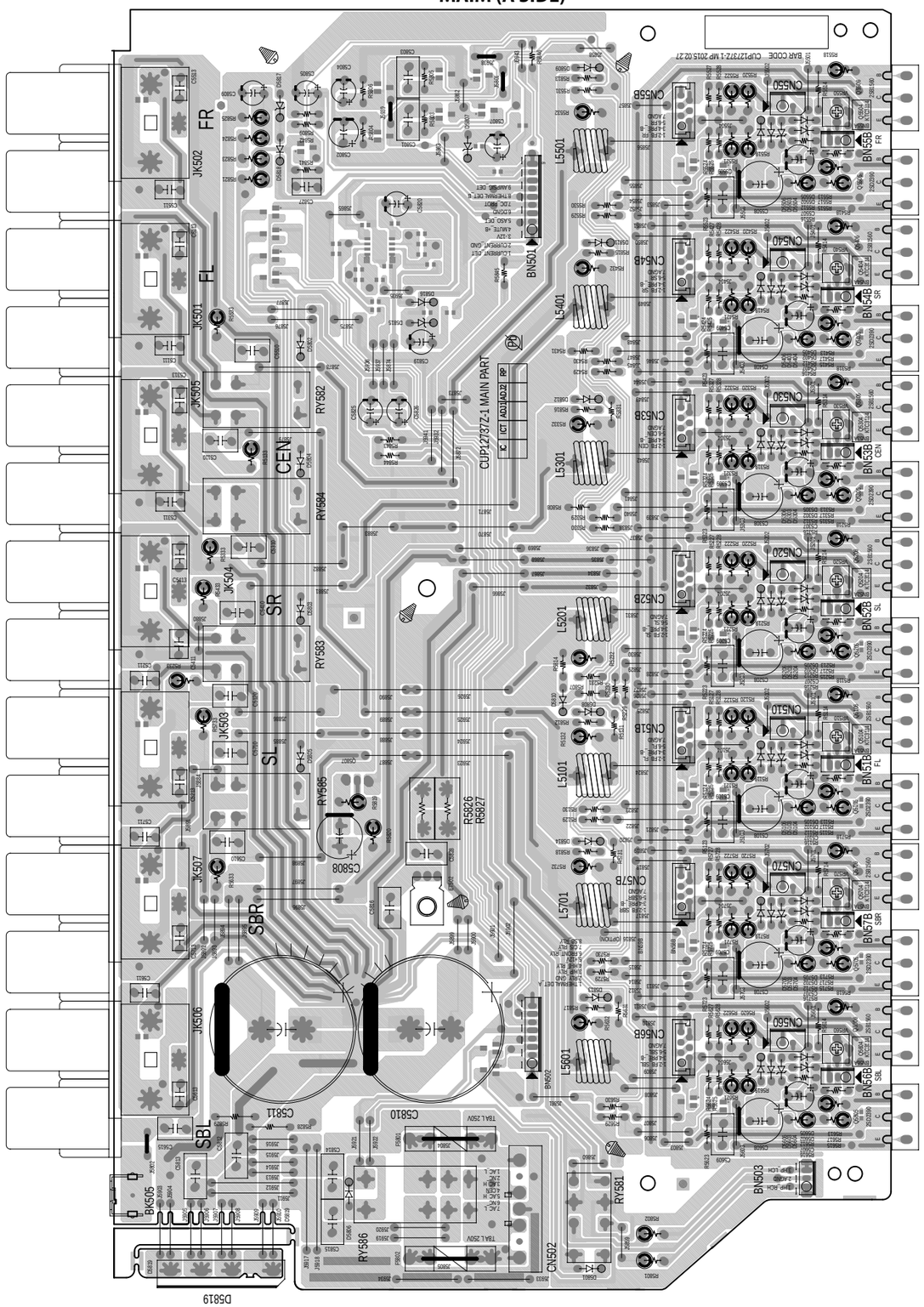
REGULATOR (A SIDE)



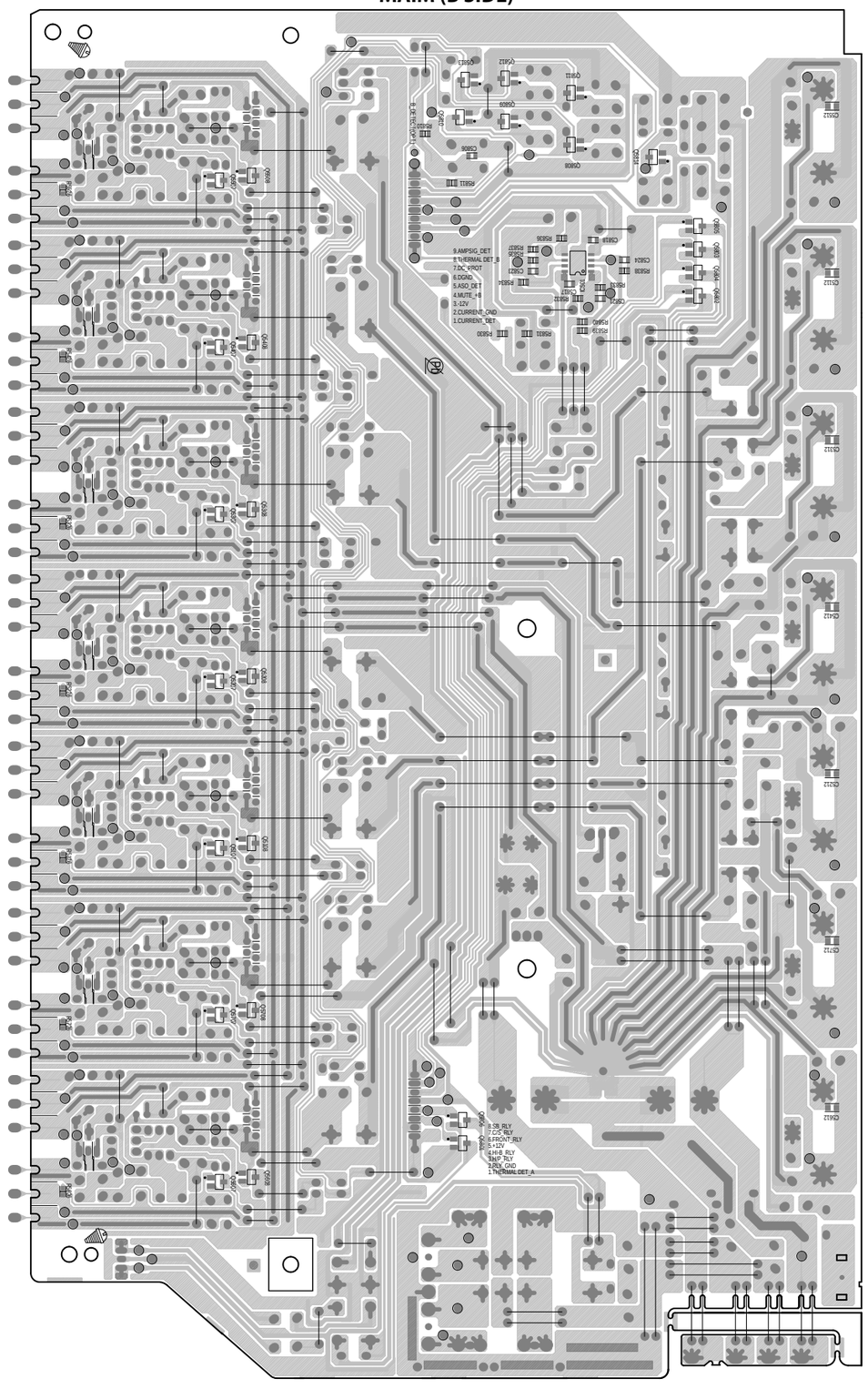
REGULATOR (B SIDE)

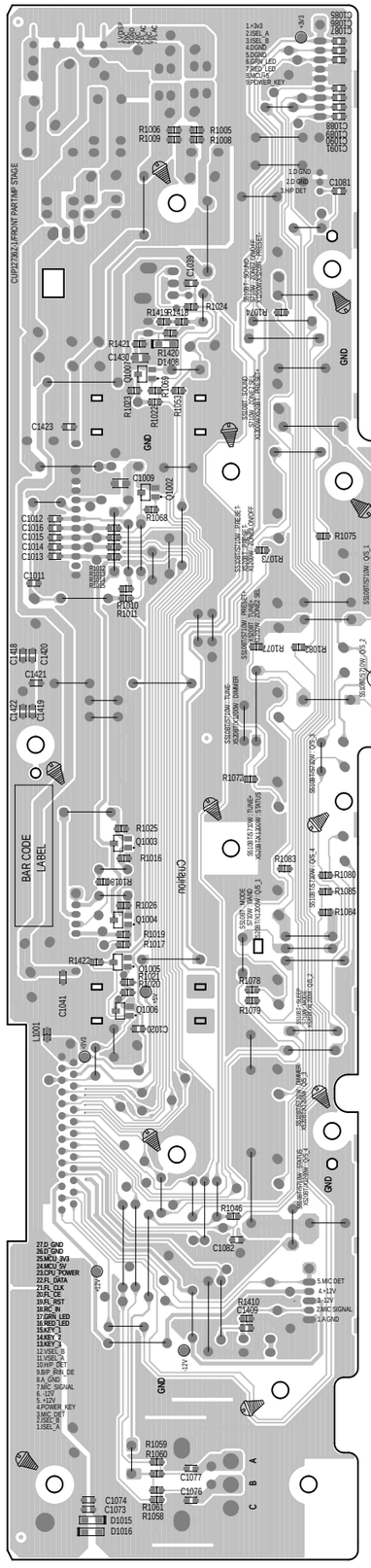


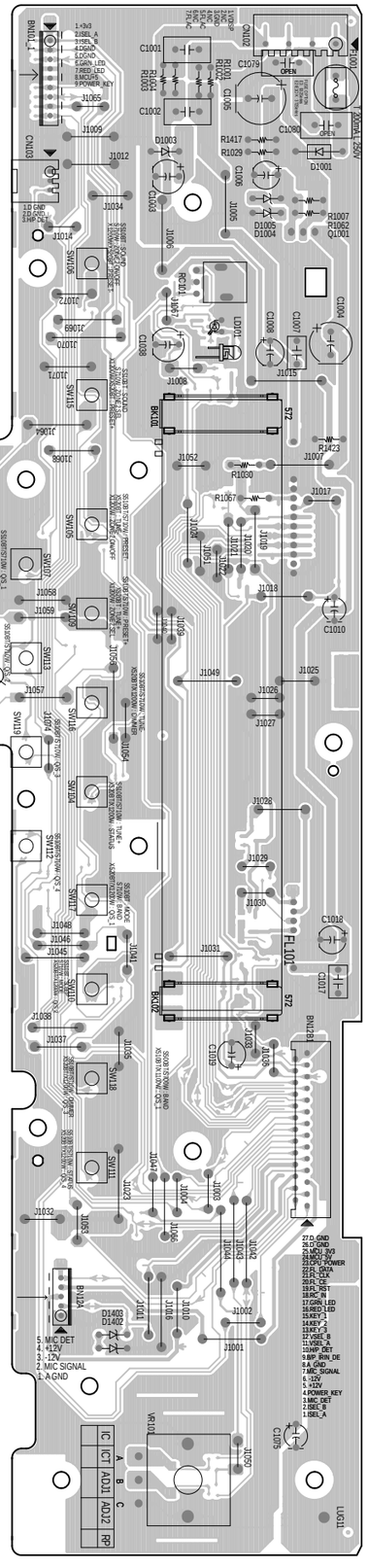
MAIM (A SIDE)



MAIM (B SIDE)







FRONT (A SIDE)

FRONT (B SIDE)

iPODUSB_MIC (A SIDE)

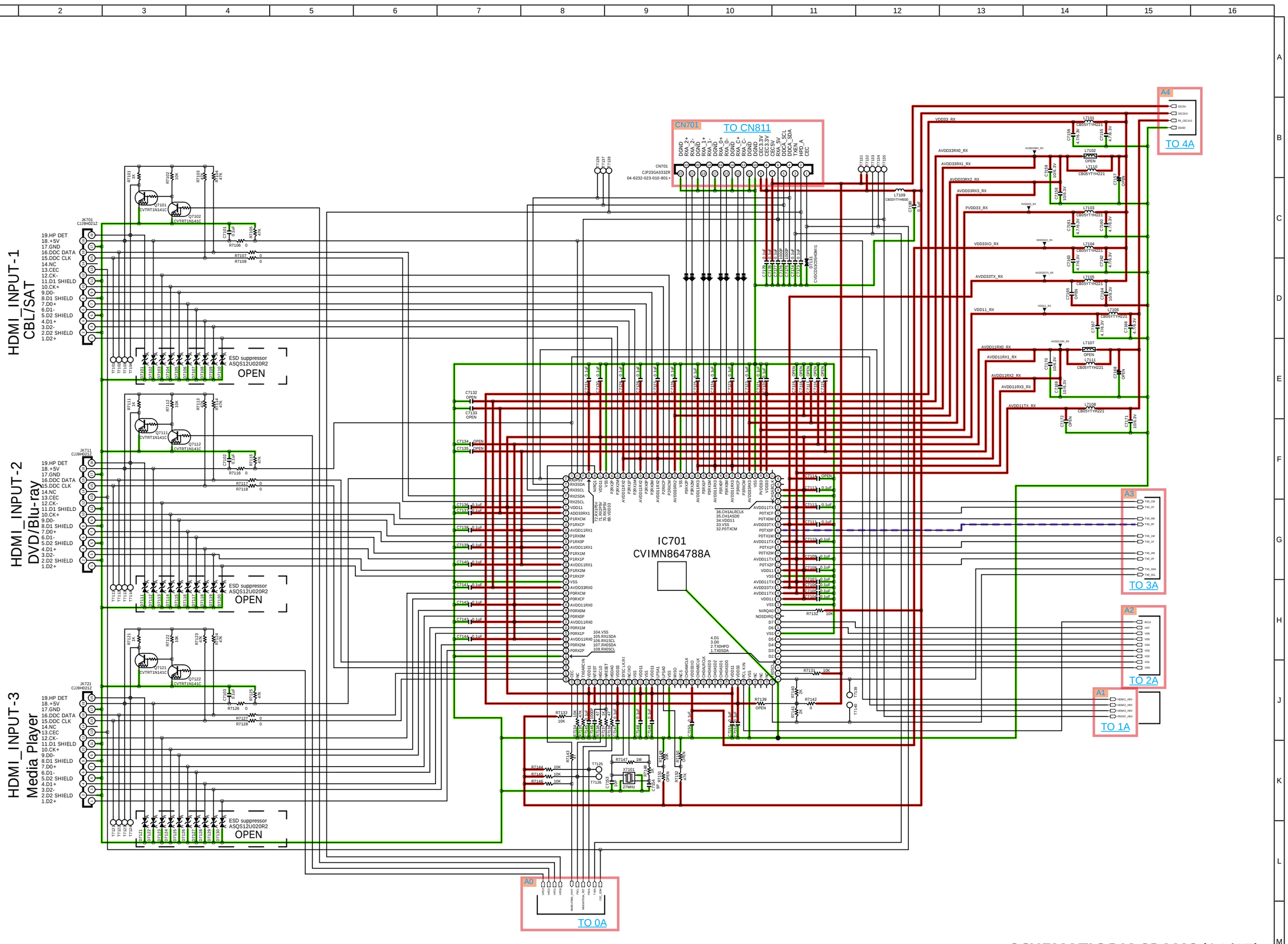
iPODUSB_MIC (B SIDE)

ENCODER&POWER (A SIDE)

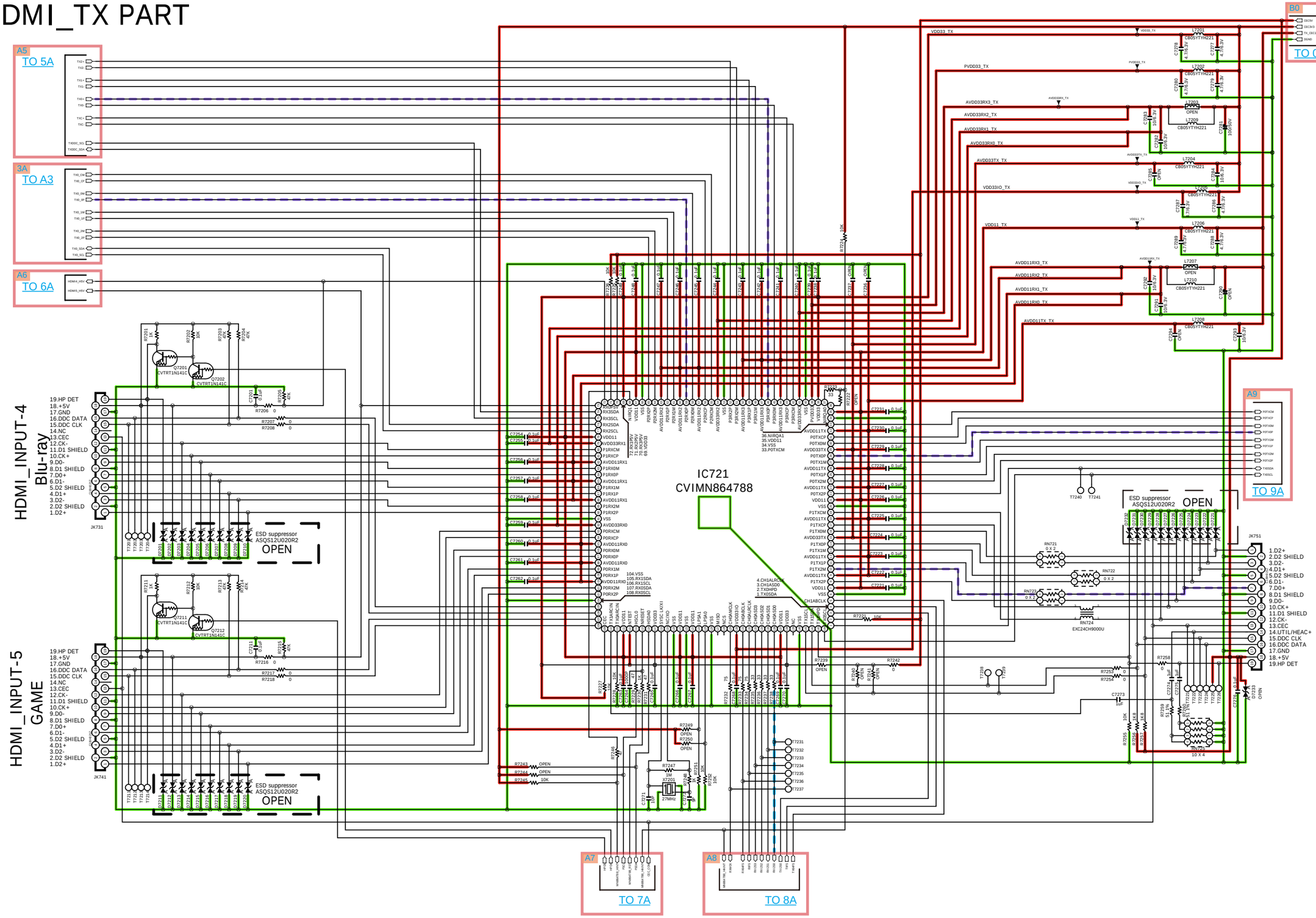
ENCODER&POWER (B SIDE)

SMPS (A SIDE)

SMPS (B SIDE)


HDMI_INPUT-1
CBL/SAT
HDMI_INPUT-2
DVD/Blu-ray
HDMI_INPUT-3
Media Player
19.HP DET
18.+5V
17.GND
16.DDC DATA
15.DDC CLK
14.NC
13.CEC
12.CK-
11.D1 SHIELD
10.CK+
9.D0-
8.D1 SHIELD
7.D0+
6.D1-
5.D2 SHIELD
4.D1+
3.D2-
2.D2 SHIELD
1.D2+
ESD suppressor
ASQS12U020R2
OPEN
CN701
TO CN811
CJP23GA333ZR
04-623Z-023-010-801+
IC701
CVIMN864788A
TO 0A
TO 1A
TO 2A
TO 3A
TO 4A
SCHEMATIC DIAGRAMS (01/17)
SCH01_HDMI RX
GND LINE
POWER+ LINE
POWER- LINE
AUDIO SIGNAL
TMDS SIGNAL
ANALOG VIDEO
DIGITAL VIDEO

HDMI_TX PART

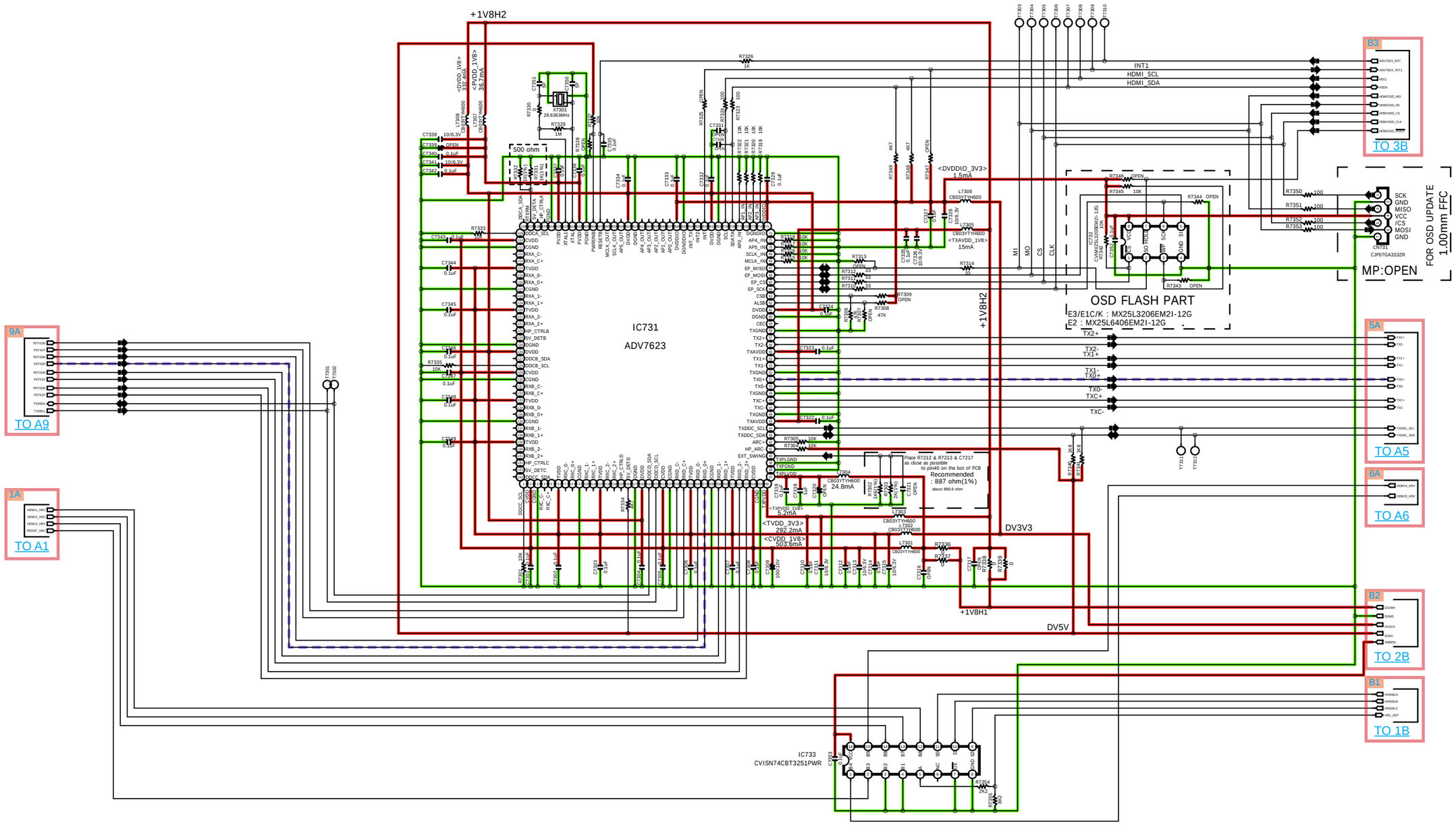


SCHEMATIC DIAGRAMS (02/17)

SCH02_HDMI TX

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

OSD PART

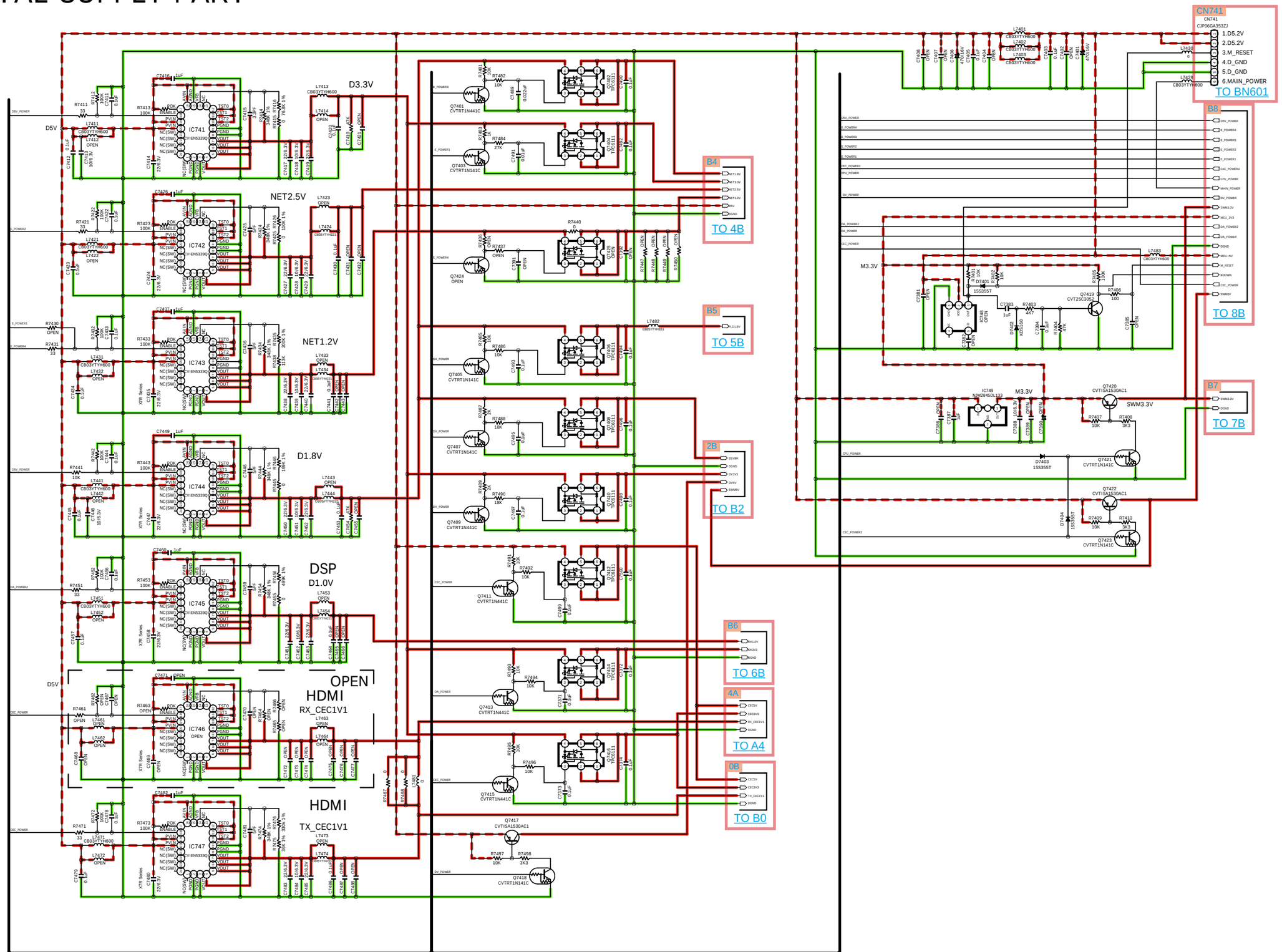


SCHEMATIC DIAGRAMS (03/17)

SCH03_OSD

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

DIGITAL SUPPLY PART



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

SCHEMATIC DIAGRAMS (04/17)

SCH04_DIGITAL SUPPLY

MCU PART

0A TO A0

7A TO A7

C4 TO 4C

CN751 TO BN12B1

B9 TO 9B

8B TO B8

3B TO B3

C3 TO 3C

C2 TO 2C

1B TO B1

CN754 TO BN302

C0 TO 0C

C1 TO 1C

HDMI CEC_PART

EEPROM PART

IC751

CVIR5F56108VNFP

AVR-X1200W E3
ONLY USE

OTHER OPEN

L7501~L7520
L7522~L7527
:CB03YTYH600

REMOTE IN
AVR-X1200W E3 ONLY

MP : OPEN
E20/EMULATOR
1.00mm FFC

* AVR-S710W/X1200W VERSION OPTION

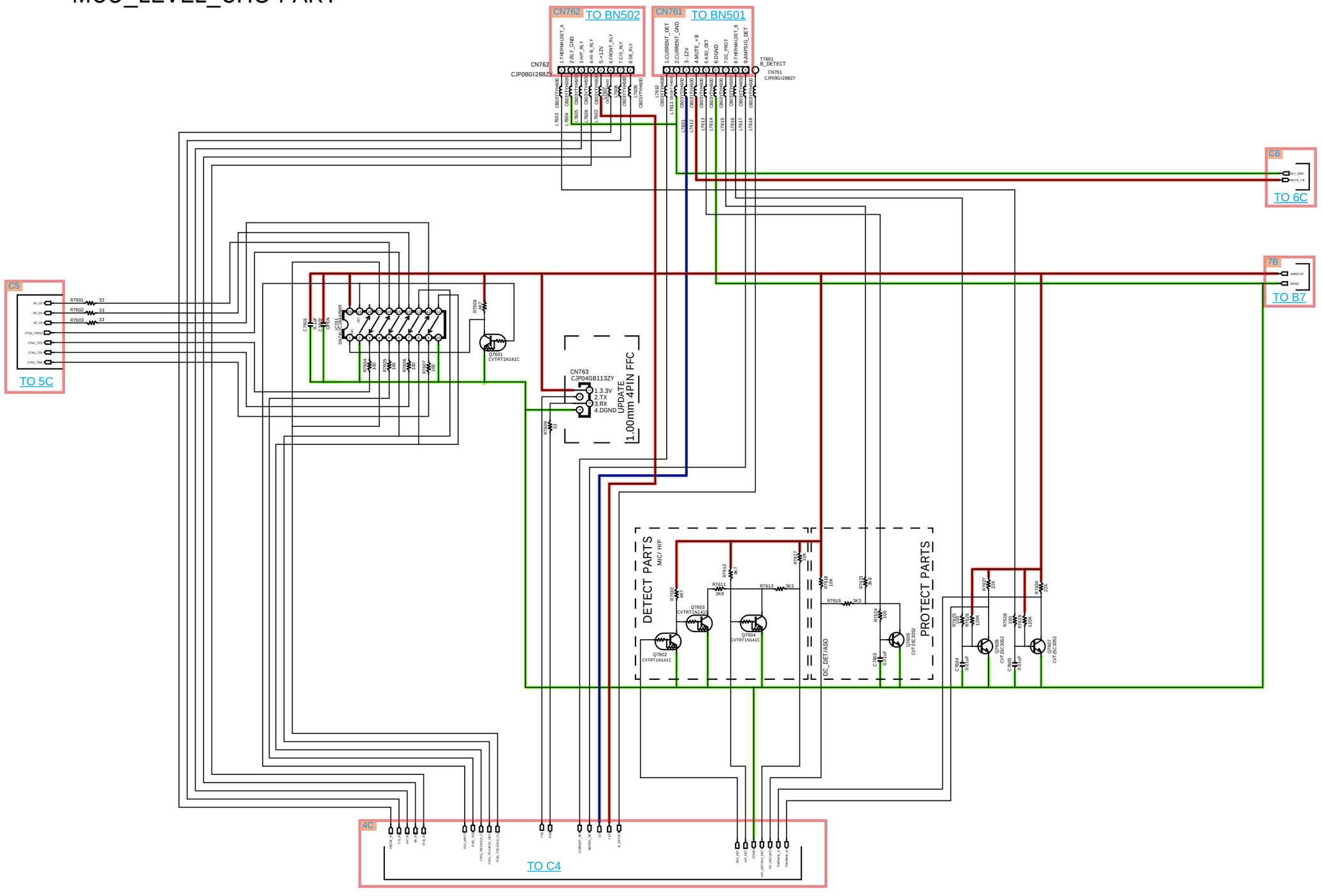
VER.	R7581(PU)	R7582(PD)
X1200 E3	OPEN	0
X1200 E2	0	OPEN
X1200 E1C	10K	10K
~~X1210 E1C~~	~~3K3~~	~~18K~~
X1200 JP	10K	22K
S710W E3	18K	3K3

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

SCHEMATIC DIAGRAMS (05/17)

SCH05_MCU

MCU_LEVEL_CHG PART

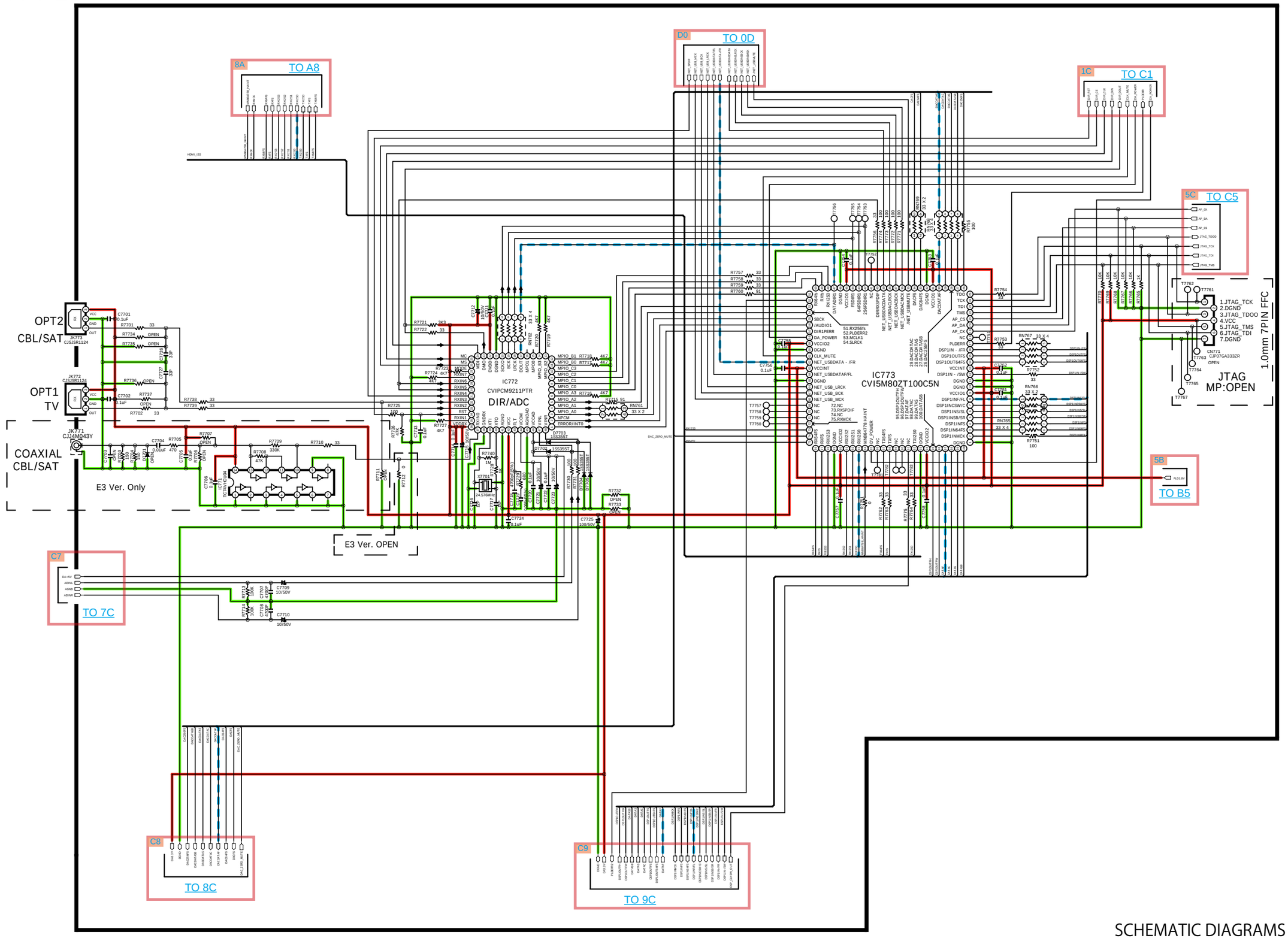


GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (06/17)

SCH06_MCU LEVEL CHG

DIR/PLD PART

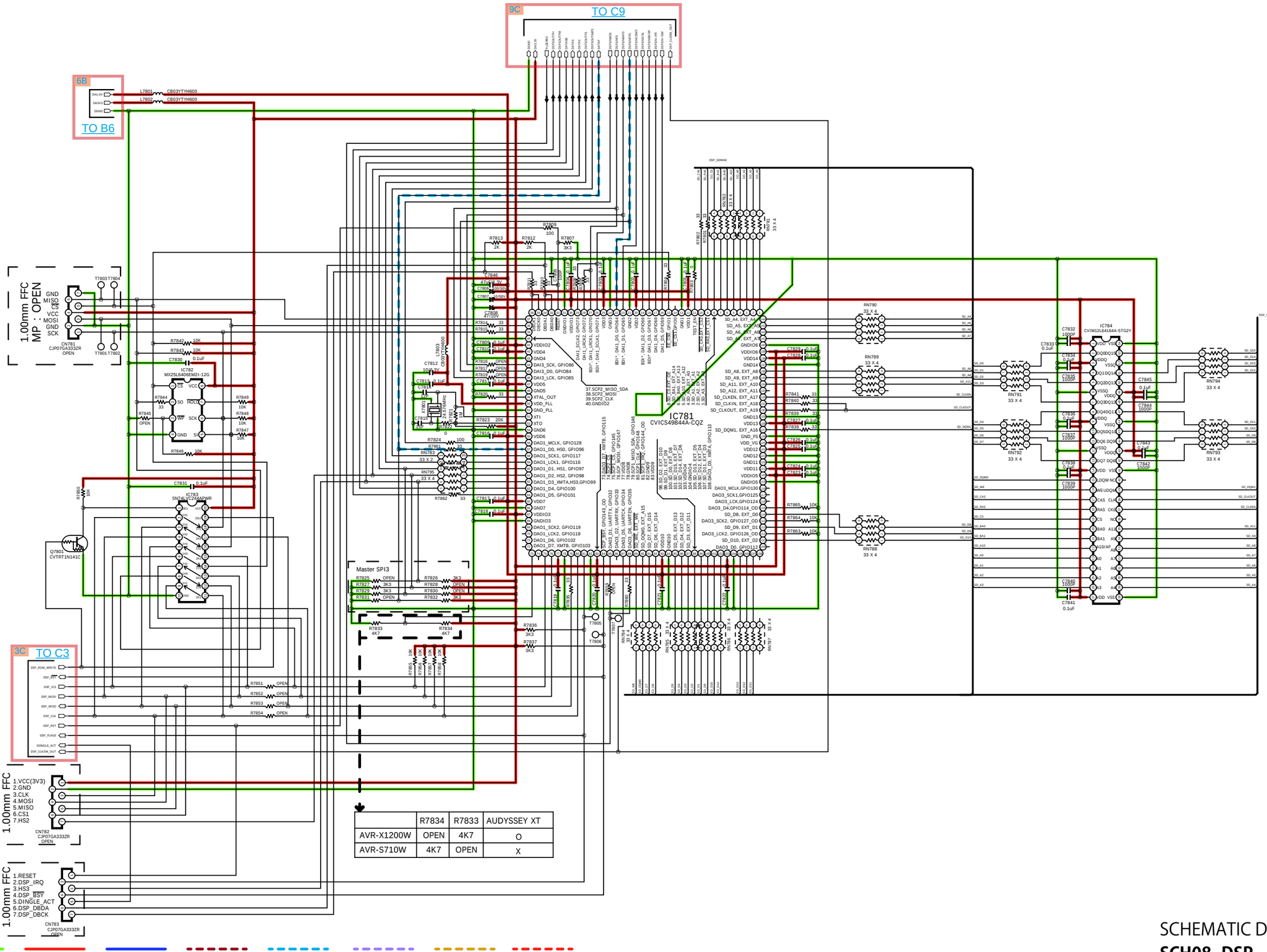


SCHEMATIC DIAGRAMS (07/17)

SCH07_DIR, PLD

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

DSP PART



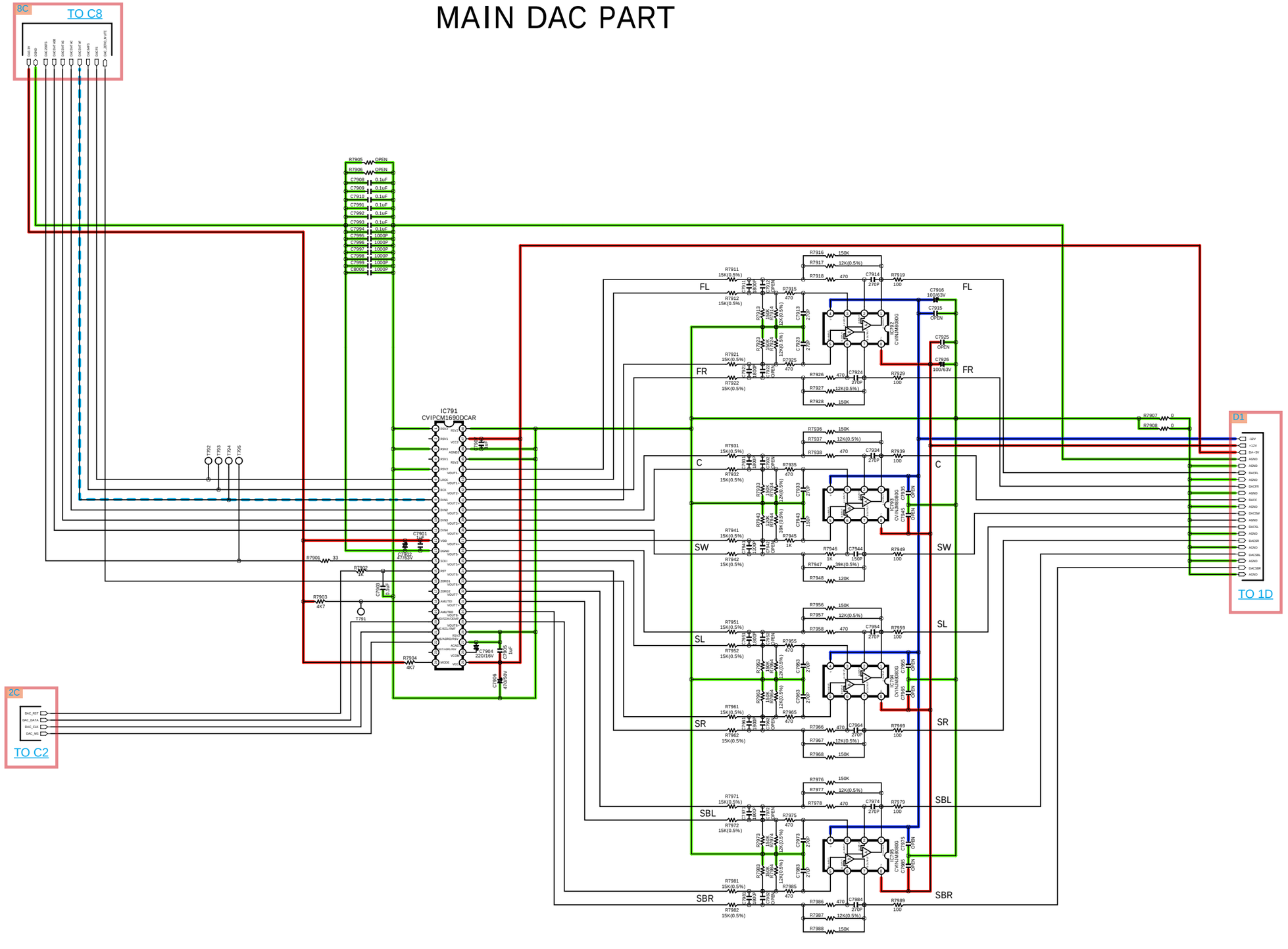
	R7834	R7833	AUDYSSEY XT
AVR-X1200W	OPEN	4K7	O
AVR-S710W	4K7	OPEN	X

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

SCHEMATIC DIAGRAMS (08/17)

SCH08_DSP

MAIN DAC PART

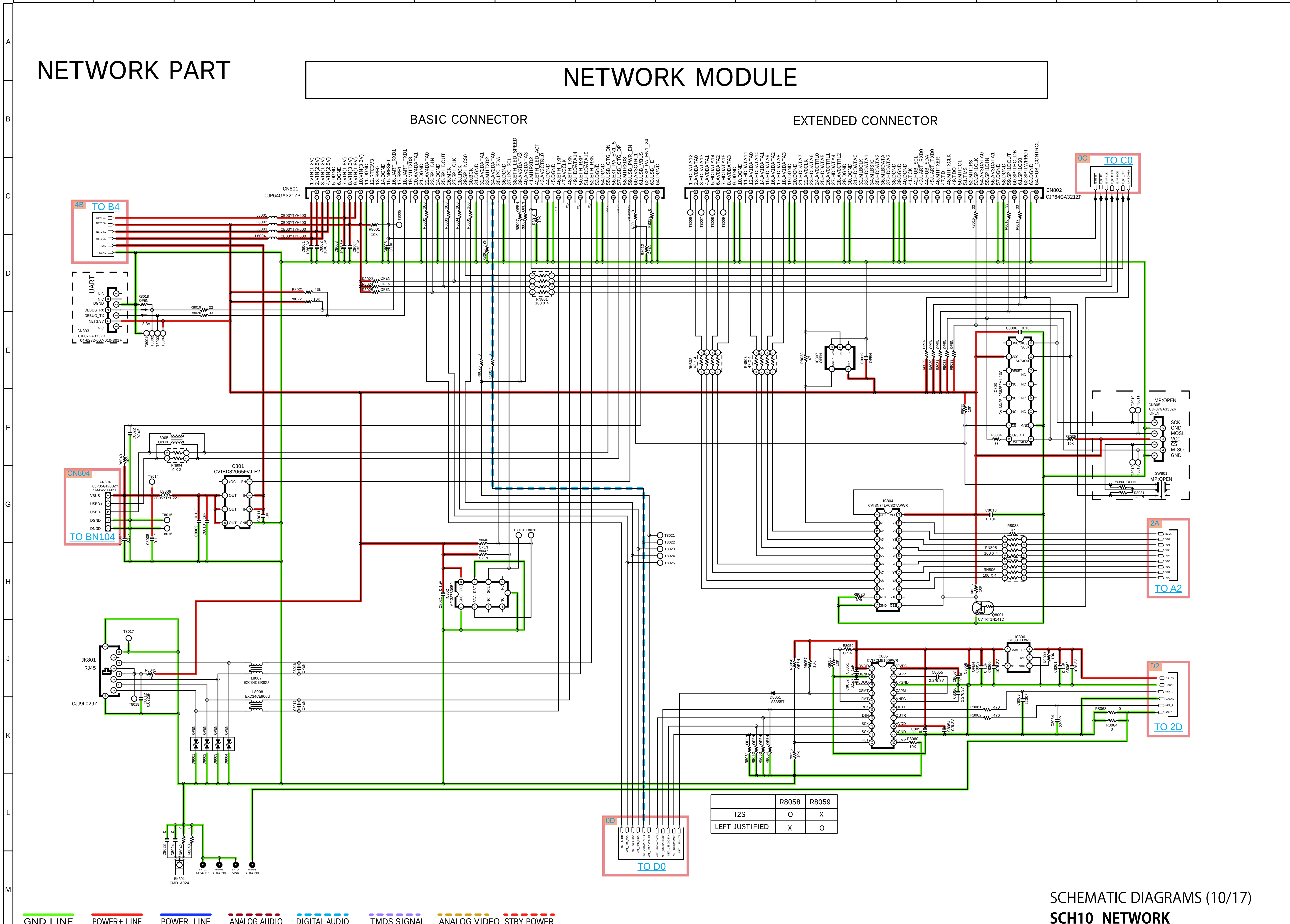


GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (09/17)

SCH09_MAIN DAC

NETWORK PART

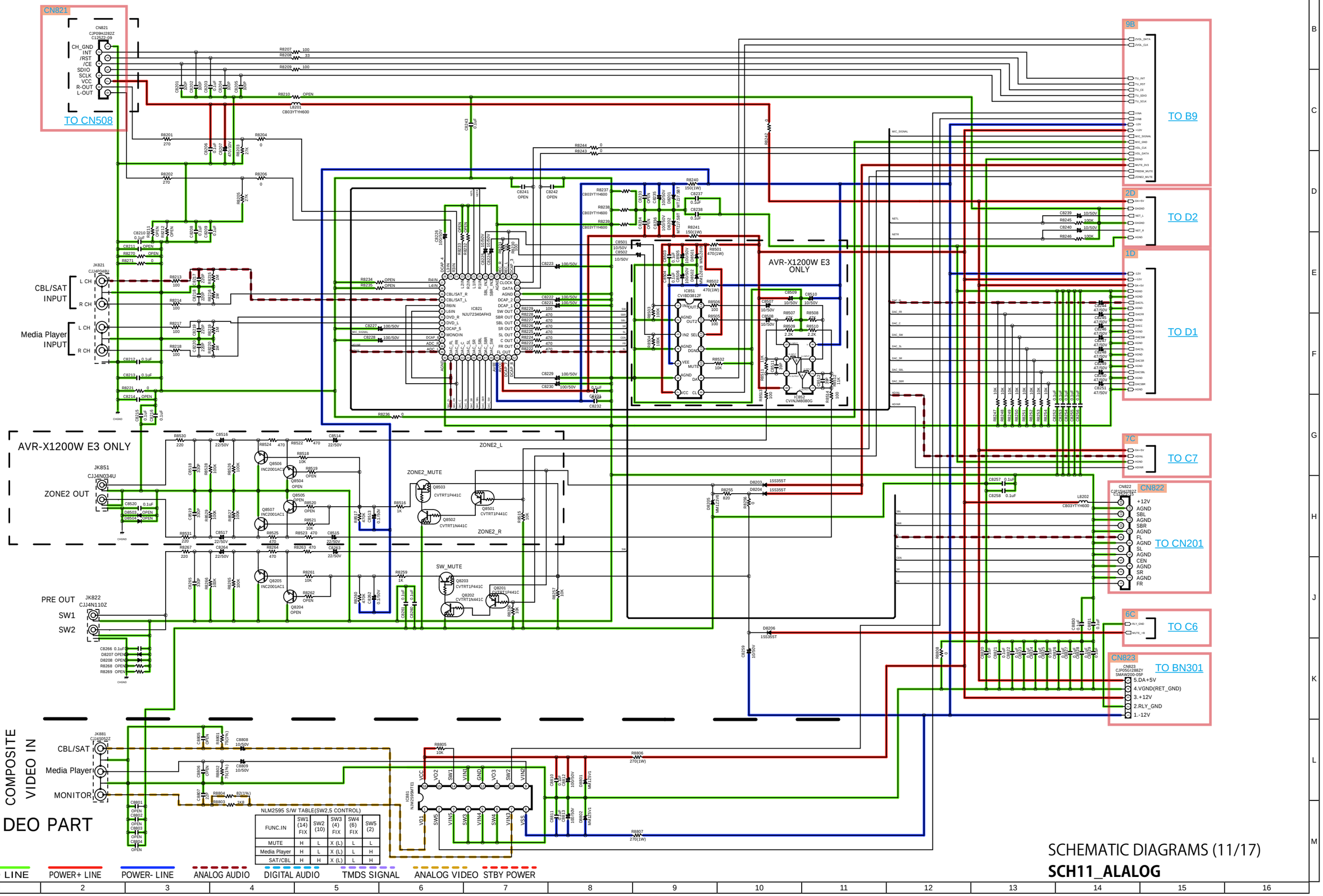


	R8058	R8059
I2S	O	X
LEFT JUSTIFIED	X	O

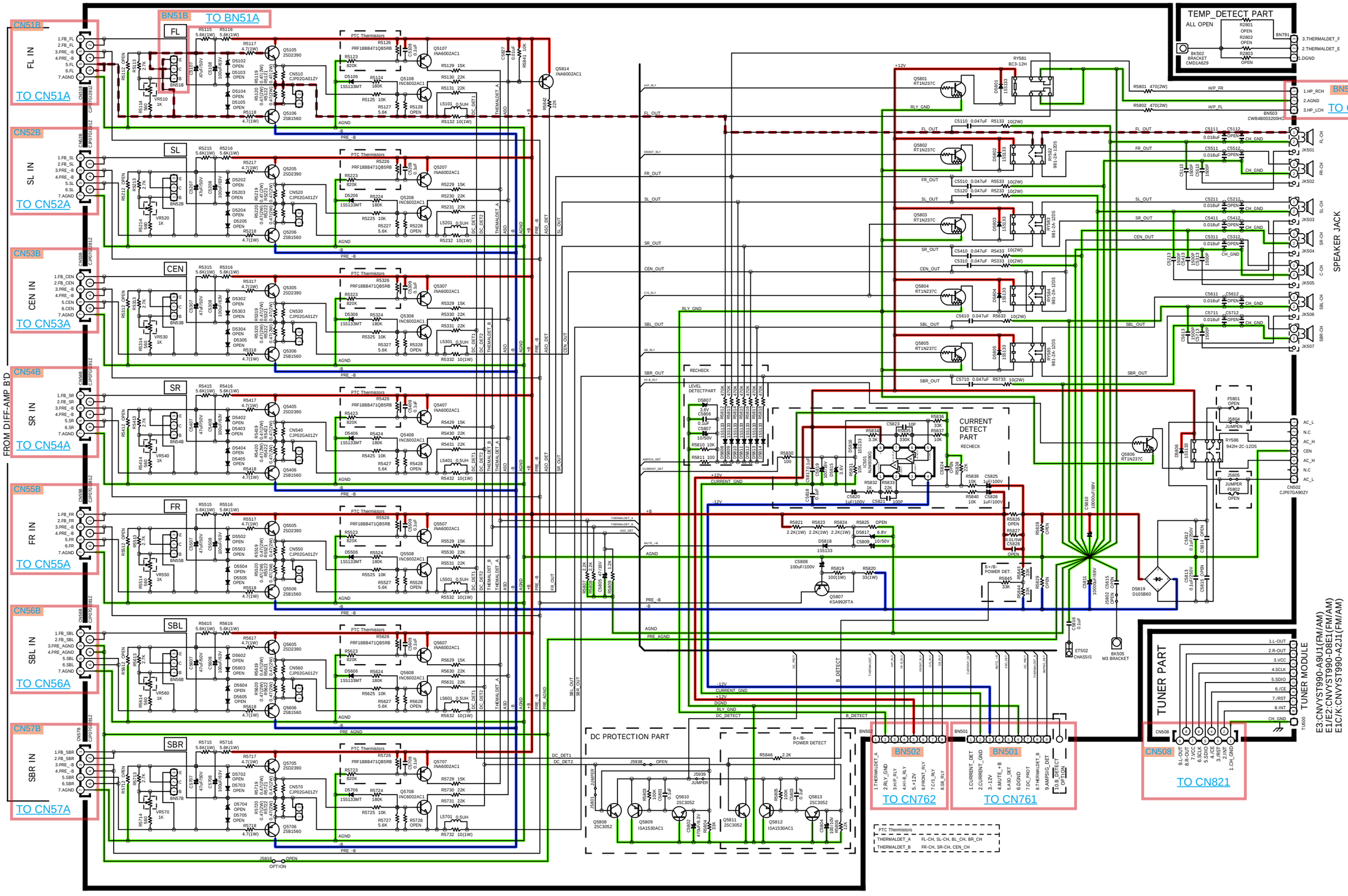
SCHEMATIC DIAGRAMS (10/17)

SCH10_NETWORK

ANALOG PART


CN821
CN821
CJP09H1Z82Z
C12522-09
CH_GND
INT
/RST
/CE
SDIO
SCLK
VCC
R-OUT
L-OUT
TO CN508
TO B9
TO D2
TO D1
TO C7
TO C6
TO BN301
CN822
CN823
CBL/SAT INPUT
Media Player INPUT
L CH
R CH
JK821
CJJ4R04BU
JK851
CJJ4N034U
ZONE2 OUT
JK822
CJJ4N110Z
PRE OUT
SW1
SW2
AVR-X1200W E3 ONLY
ZONE2_L
ZONE2_R
ZONE2_MUTE
SW_MUTE
IC821
NJU72340AFH3
IC851
CVIIBD3812F
IC852
CVINJM8080G
COMPOSITE VIDEO IN
CBL/SAT
Media Player
MONITOR
JK881
CJJ4S052Z
VIDEO PART
IC881
NJM2595MTE1
NLM2595 S/W TABLE(SW2,5 CONTROL)
FUNC.IN
SW1 (14) FIX
SW2 (10)
SW3 (4) FIX
SW4 (6) FIX
SW5 (2)
MUTE
Media Player
SAT/CBL
GND LINE
POWER+ LINE
POWER- LINE
ANALOG AUDIO
DIGITAL AUDIO
TMDS SIGNAL
ANALOG VIDEO
STBY POWER
SCHEMATIC DIAGRAMS (11/17)
SCH11_ALALOG

MAIN PART

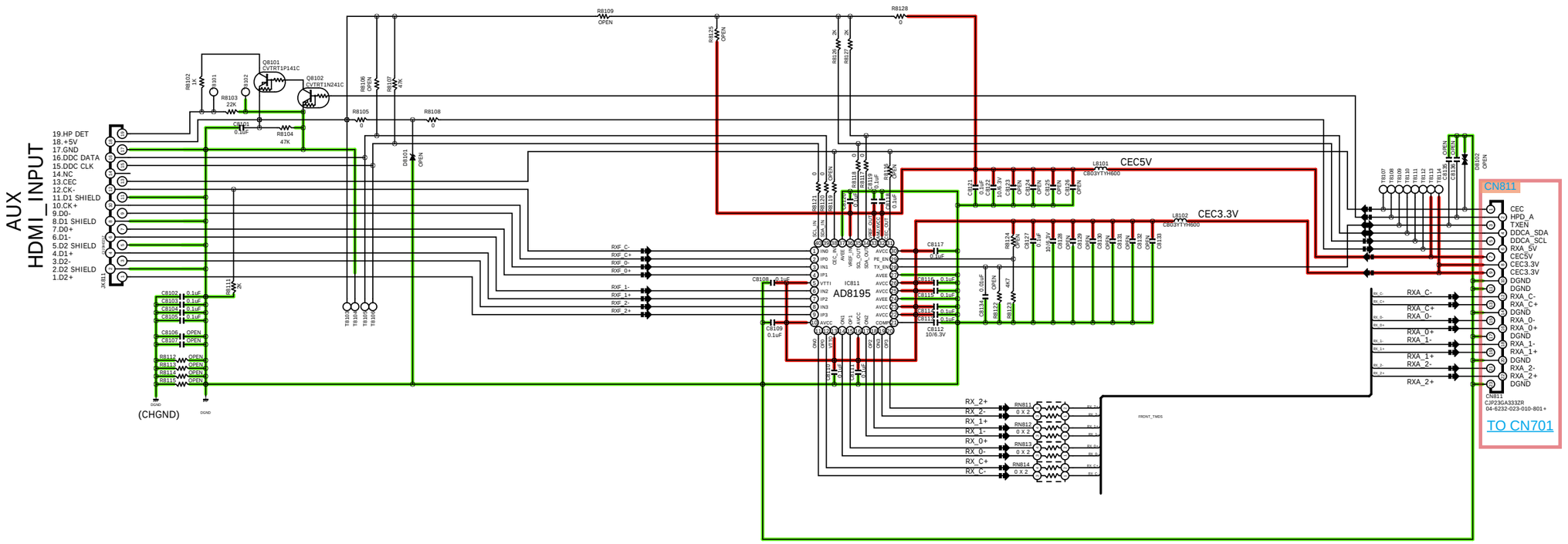


SCHEMATIC DIAGRAMS (12/17)

SCH12_MAIN

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

FRONT_HDMI PART

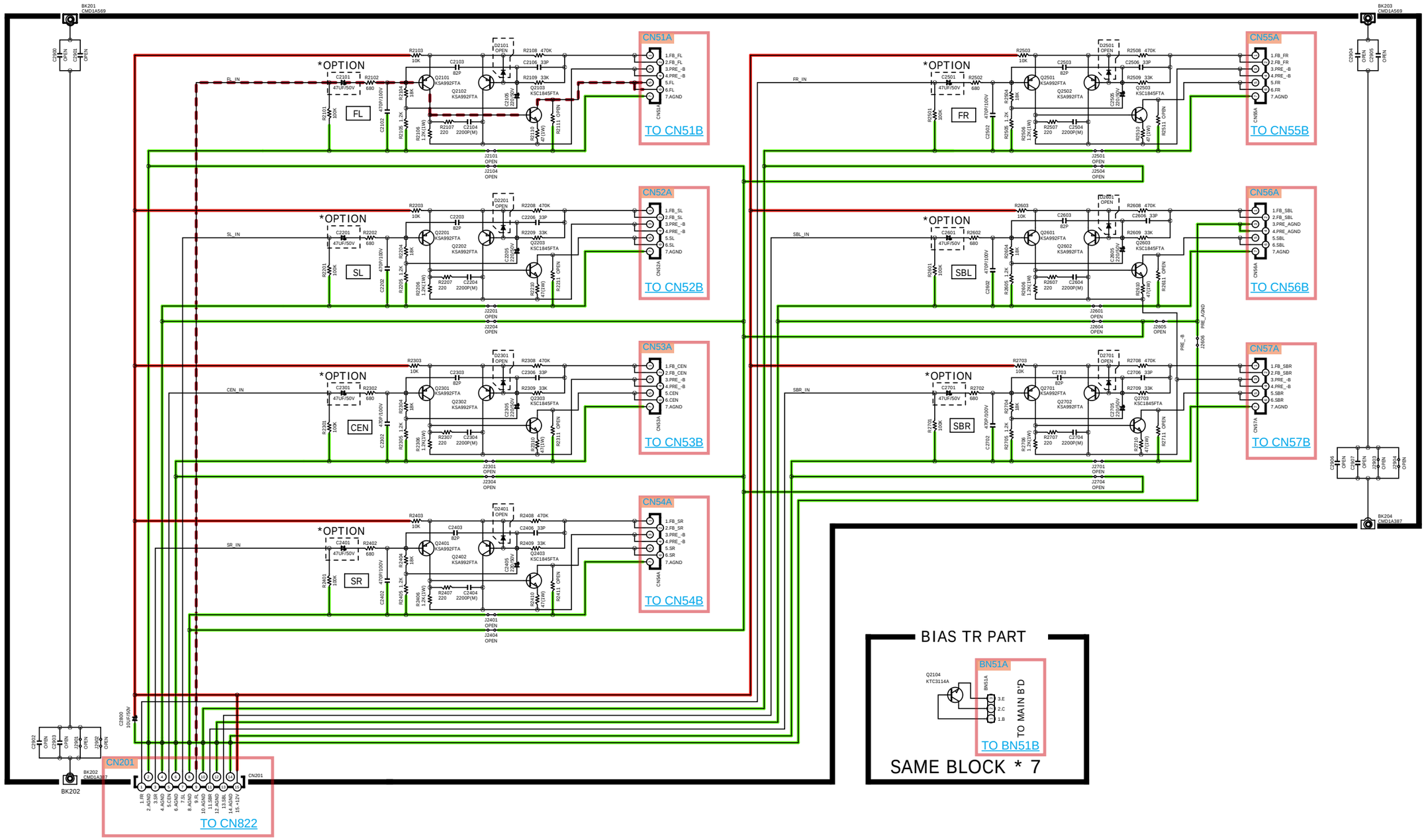


GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (13/17)

SCH13_FRONT HDMI

AVR-S700W/X1100W/S710W/X1200W DIFF-AMP PART



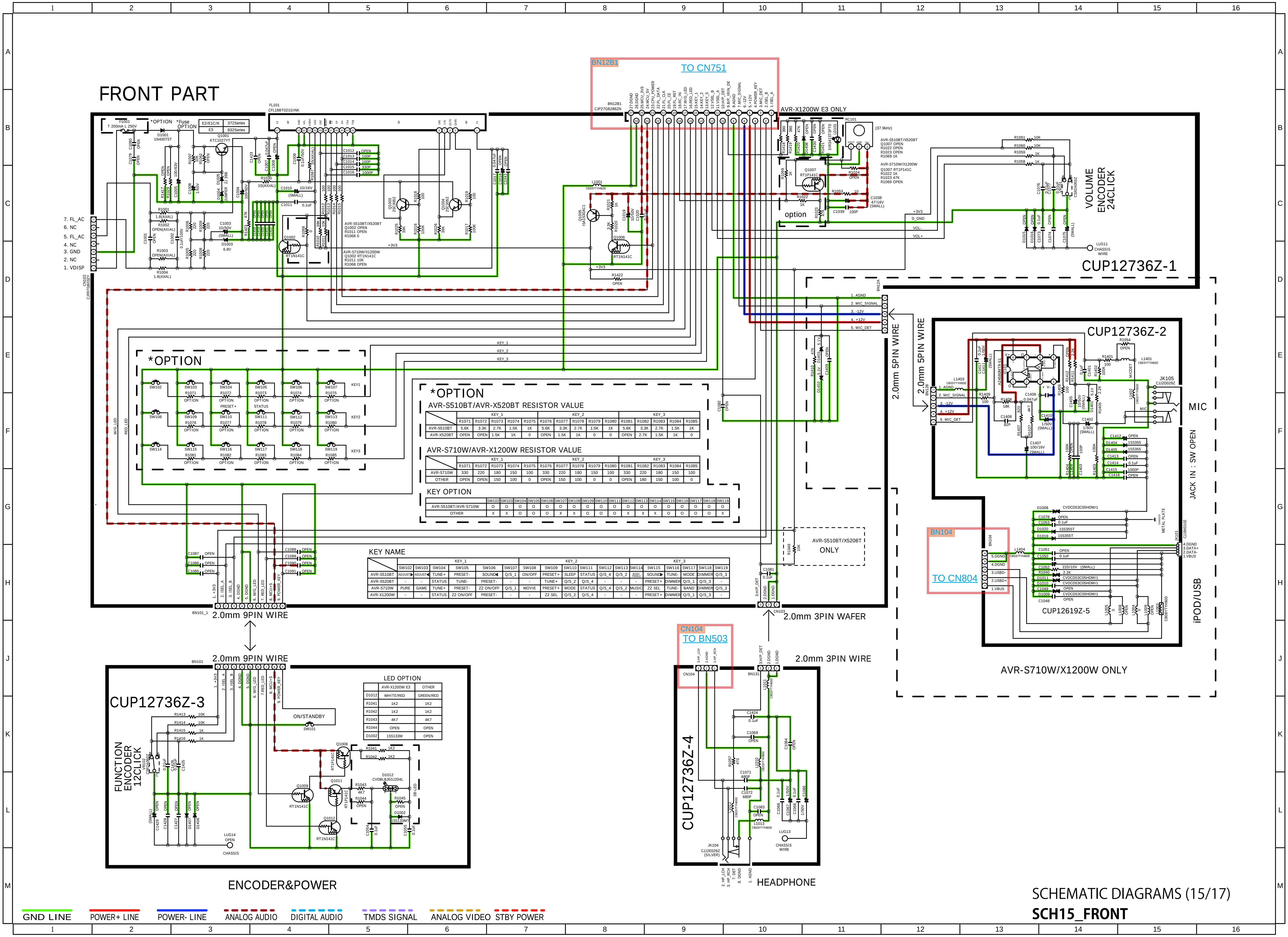
*OPTION

	C2101	C2201	C2301	C2401	C2501	C2601	C2701
AVR-S700W/X1100W	10uF/100V	10uF/100V	10uF/100V	10uF/100V	10uF/100V	10uF/100V	10uF/100V
AVR-S710W/X1200W	47uF/50V	47uF/50V	47uF/50V	47uF/50V	47uF/50V	47uF/50V	47uF/50V

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

SCHEMATIC DIAGRAMS (14/17)

SCH14_DIFF-AMP



*OPTION

AVR-S510BT/AVR-X520BT RESISTOR VALUE

	KEY_1					KEY_2					KEY_3				
	R1071	R1072	R1073	R1074	R1075	R1076	R1077	R1078	R1079	R1080	R1081	R1082	R1083	R1084	R1085
AVR-S510BT	5.6K	3.3K	2.7K	1.5K	1K	5.6K	3.3K	2.7K	1.5K	1K	5.6K	3.3K	2.7K	1.5K	1K
AVR-X520BT	OPEN	OPEN	1.5K	1K	0	OPEN	1.5K	1K	0	0	OPEN	2.7K	1.5K	1K	0

AVR-S710W/AVR-X1200W RESISTOR VALUE

	KEY_1					KEY_2					KEY_3				
	R1071	R1072	R1073	R1074	R1075	R1076	R1077	R1078	R1079	R1080	R1081	R1082	R1083	R1084	R1085
AVR-S710W	330	220	180	150	100	330	220	180	150	100	330	220	180	150	100
OTHER	OPEN	OPEN	150	100	0	OPEN	150	100	0	0	OPEN	180	150	100	0

KEY OPTION

	SW102	SW103	SW104	SW105	SW106	SW107	SW108	SW109	SW110	SW111	SW112	SW113	SW114	SW115	SW116	SW117	SW118	SW119
AVR-S510BT/AVR-S710W	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
OTHER	X	X	O	O	O	X	X	O	O	O	X	X	X	O	O	O	O	X

KEY NAME

	KEY_1						KEY_2						KEY_3					
	SW102	SW103	SW104	SW105	SW106	SW107	SW108	SW109	SW110	SW111	SW112	SW113	SW114	SW115	SW116	SW117	SW118	SW119
AVR-S510BT	ADJUST▶	ADJUST◀	TUNE+	PRESET-	SOUND◀	Q/S_1	ON/OFF	PRESET+	SLEEP	STATUS	Q/S_4	Q/S_2	BASS/TREBLE	SOUND▶	TUNE-	MODE	DIMMER	Q/S_3
AVR-X520BT	-	-	STATUS	TUNE-	PRESET-	-	-	TUNE+	Q/S_2	Q/S_4	-	-	-	PRESET+	DIMMER	Q/S_1	Q/S_3	-
AVR-S710W	PURE	GAME	TUNE+	PRESET-	Z2 ON/OFF	Q/S_1	MOVIE	PRESET+	MODE	STATUS	Q/S_4	Q/S_2	MUSIC	Z2 SEL	TUNE-	BAND	DIMMER	Q/S_3
AVR-X1200W	-	-	STATUS	Z2 ON/OFF	PRESET-	-	-	Z2 SEL	Q/S_2	Q/S_4	-	-	-	PRESET+	DIMMER	Q/S_1	Q/S_3	-

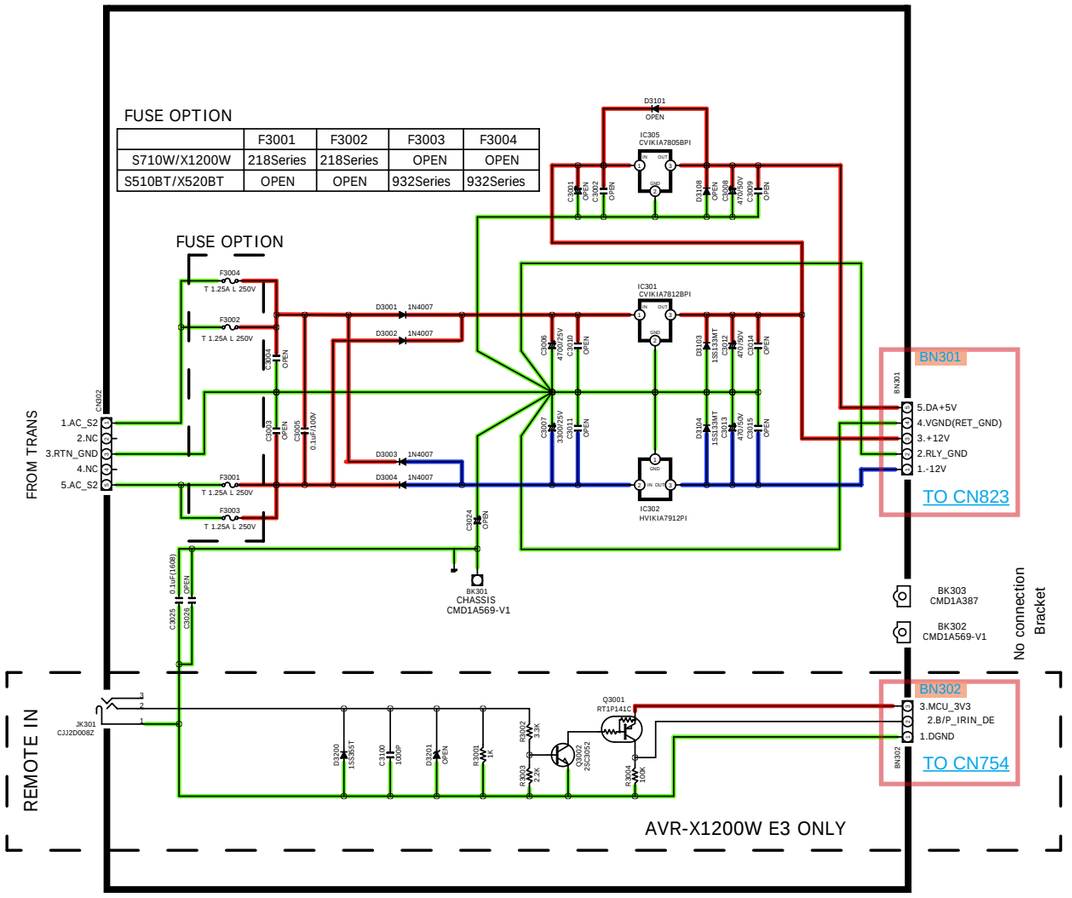
LED OPTION

	AVR-X1200W E3	OTHER
D1012	WHITE/RED	GREEN/RED
R1041	1K2	1K2
R1042	1K2	1K2
R1043	4K7	4K7
R1044	OPEN	OPEN
D1002	1SS133M	OPEN

SCHEMATIC DIAGRAMS (15/17)

SCH15_FRONT

REGULATOR PART

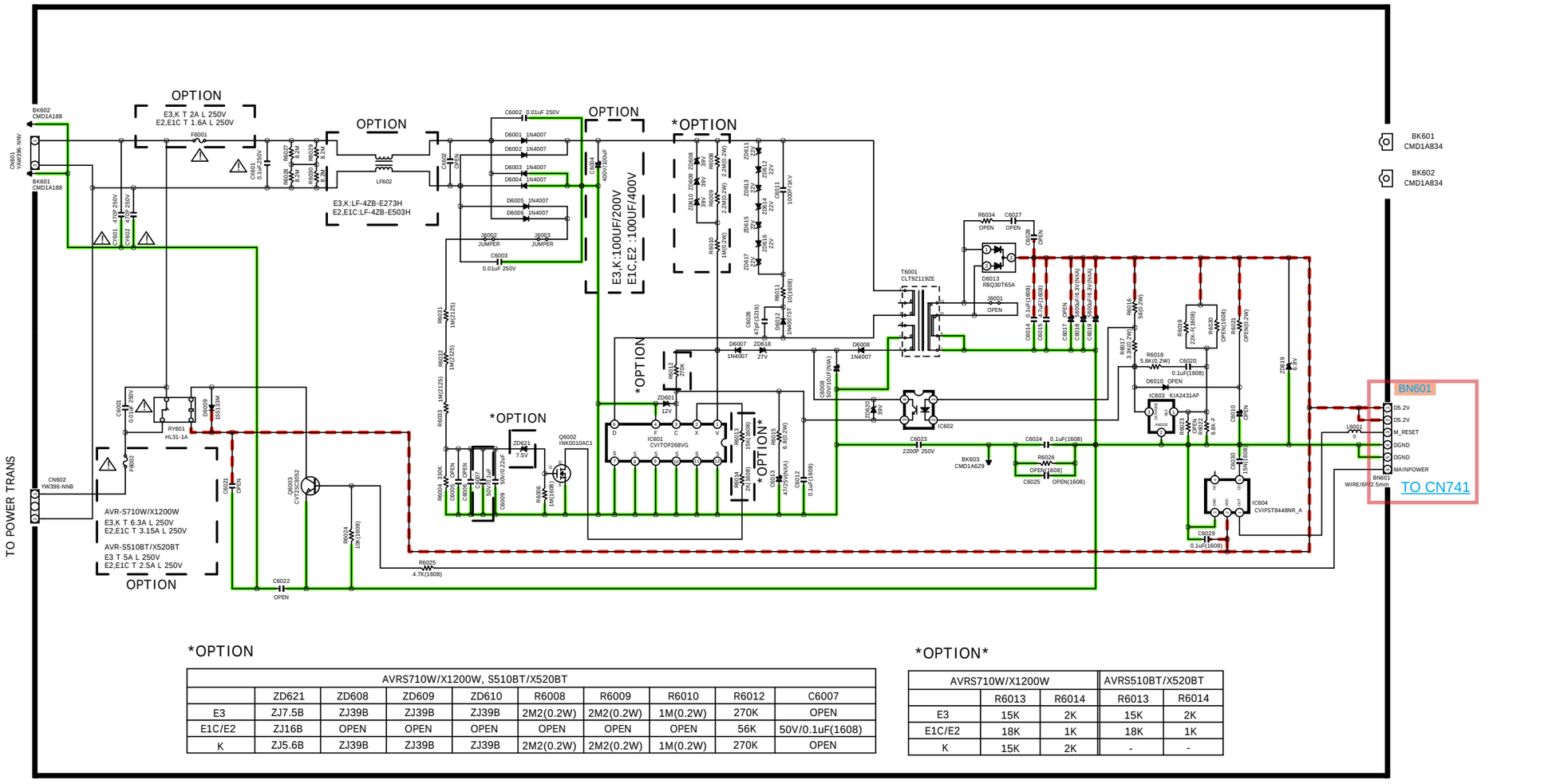


GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (16/17)

SCH16_REGULATOR

SMPS PART



*OPTION

AVRS710W/X1200W, S510BT/X520BT									
	ZD621	ZD608	ZD609	ZD610	R6008	R6009	R6010	R6012	C6007
E3	ZJ7.5B	ZJ39B	ZJ39B	ZJ39B	2M2(0.2W)	2M2(0.2W)	1M(0.2W)	270K	OPEN
E1C/E2	ZJ16B	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	56K	50V/0.1uF(1608)
K	ZJ5.6B	ZJ39B	ZJ39B	ZJ39B	2M2(0.2W)	2M2(0.2W)	1M(0.2W)	270K	OPEN

OPTION

	AVRS710W/X1200W		AVRS510BT/X520BT	
	R6013	R6014	R6013	R6014
E3	15K	2K	15K	2K
E1C/E2	18K	1K	18K	1K
K	15K	2K	-	-

** IMPORTANT SAFETY NOTICE.
COMPONENT IDENTIFIED BY ⚠ MARK HAVE SPECIAL CHARACTERISICS.
IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS
USE ONLY MANUFACTURER'S SPECIFIED PARTS.
** THE UNIT OF RESISTANCE IS OHM.
K = 1000 OHM, M = 1000KOHM.
** THE UNIT OF CAPACITANCE IS MICROFARAD(uF)
pF = 10^{-6}uF
** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE
IMPROVEMENT OF PERFORMANCE.

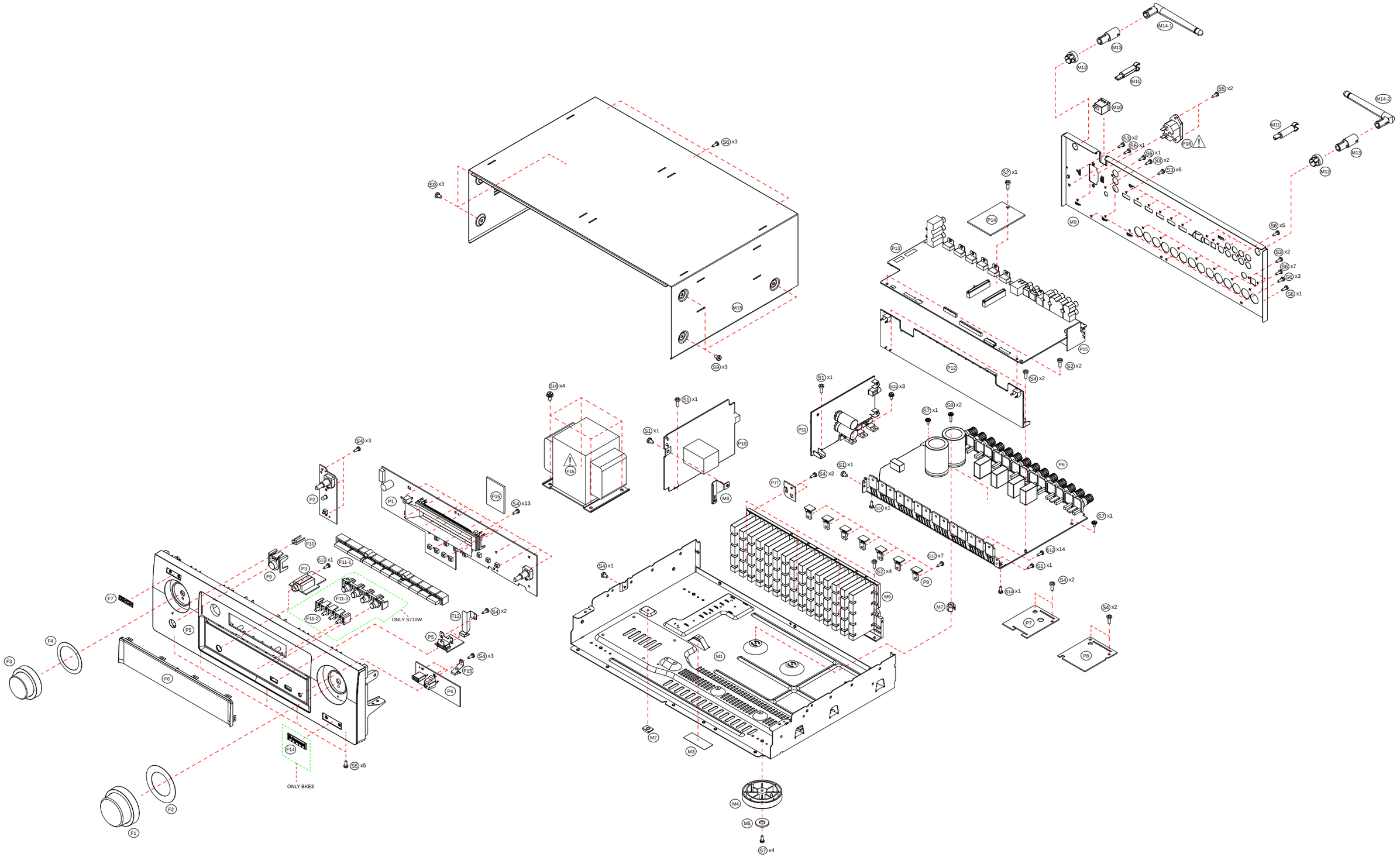
GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (17/17)

SCH17_SMPS

EXPLODED VIEW

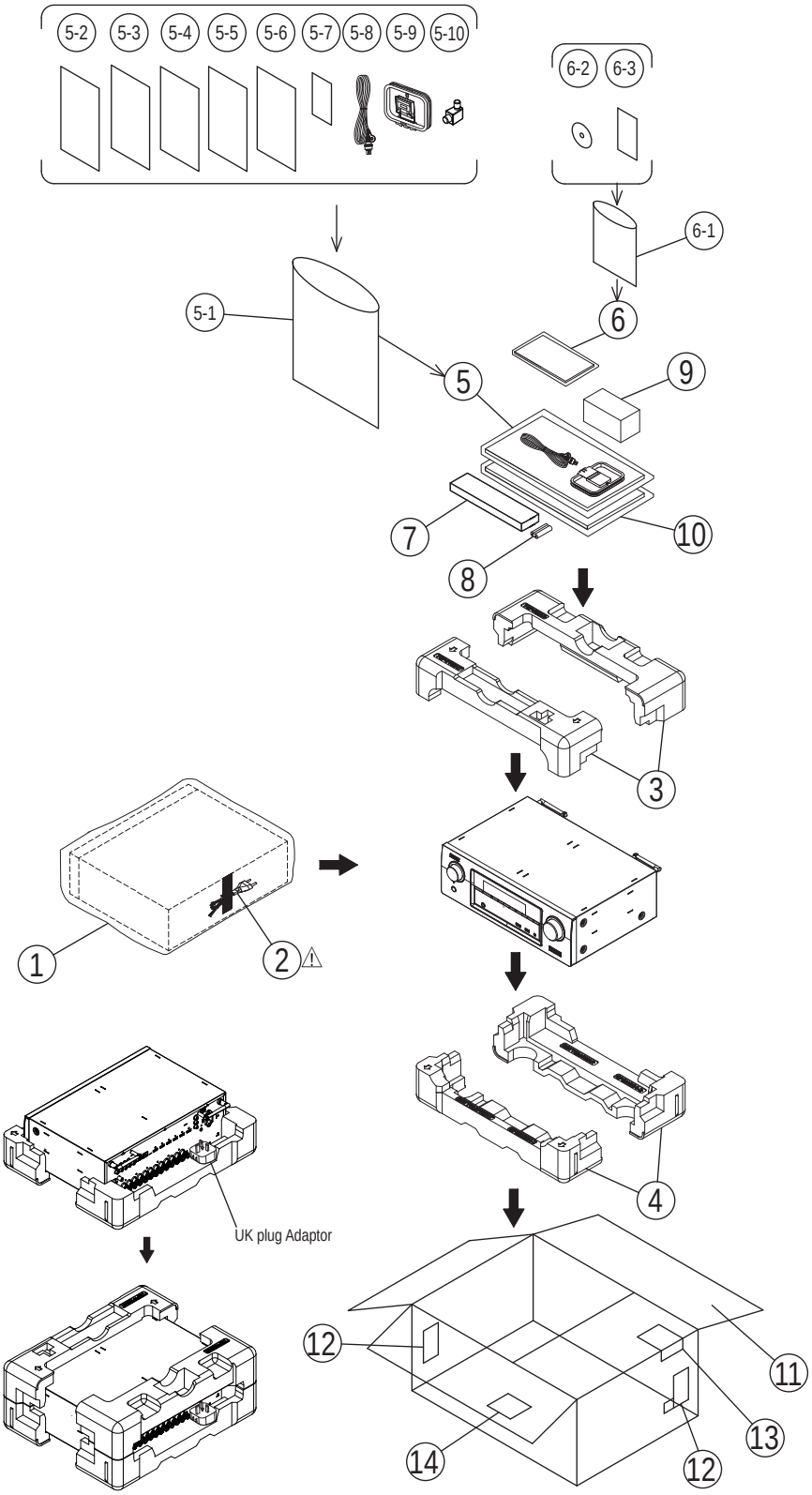
Please see the last chapter for the part list.



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

PACKING VIEW

Please see the last chapter for the part list.

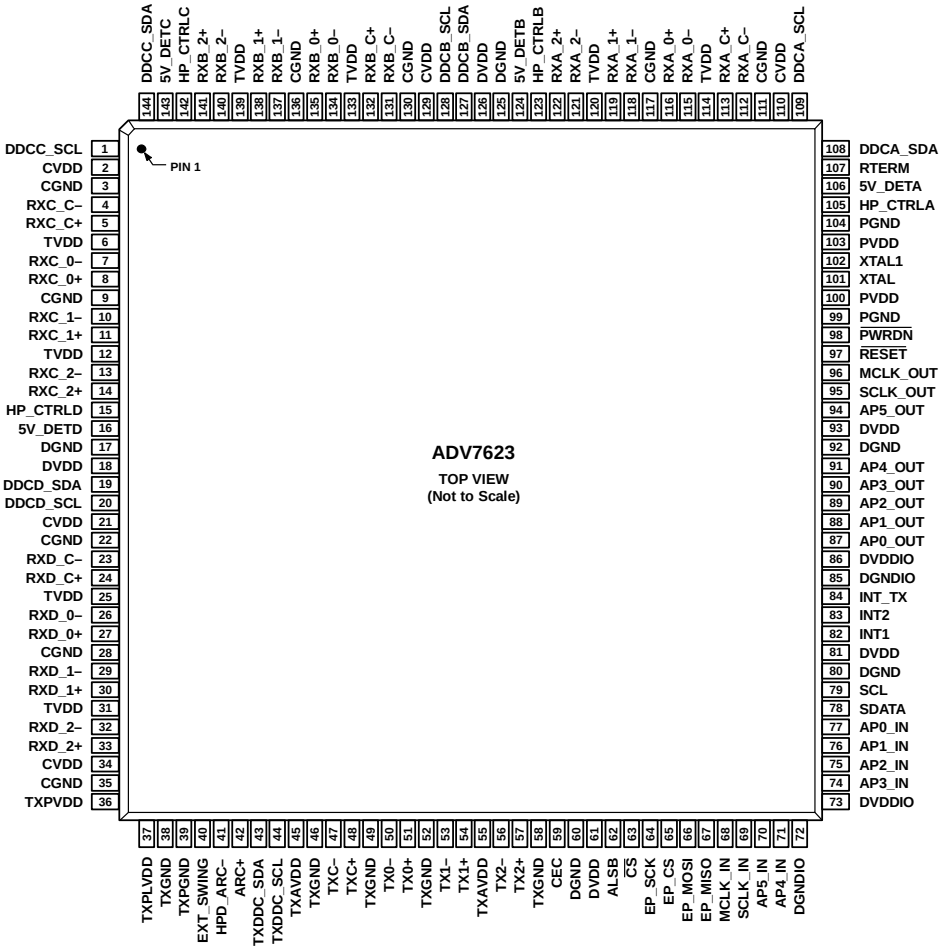


SEMICONDUCTORS

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

1. IC's

ADV7623 (DIGITAL_HDMI_ADV7623 : IC731)



Pin Function Descriptions

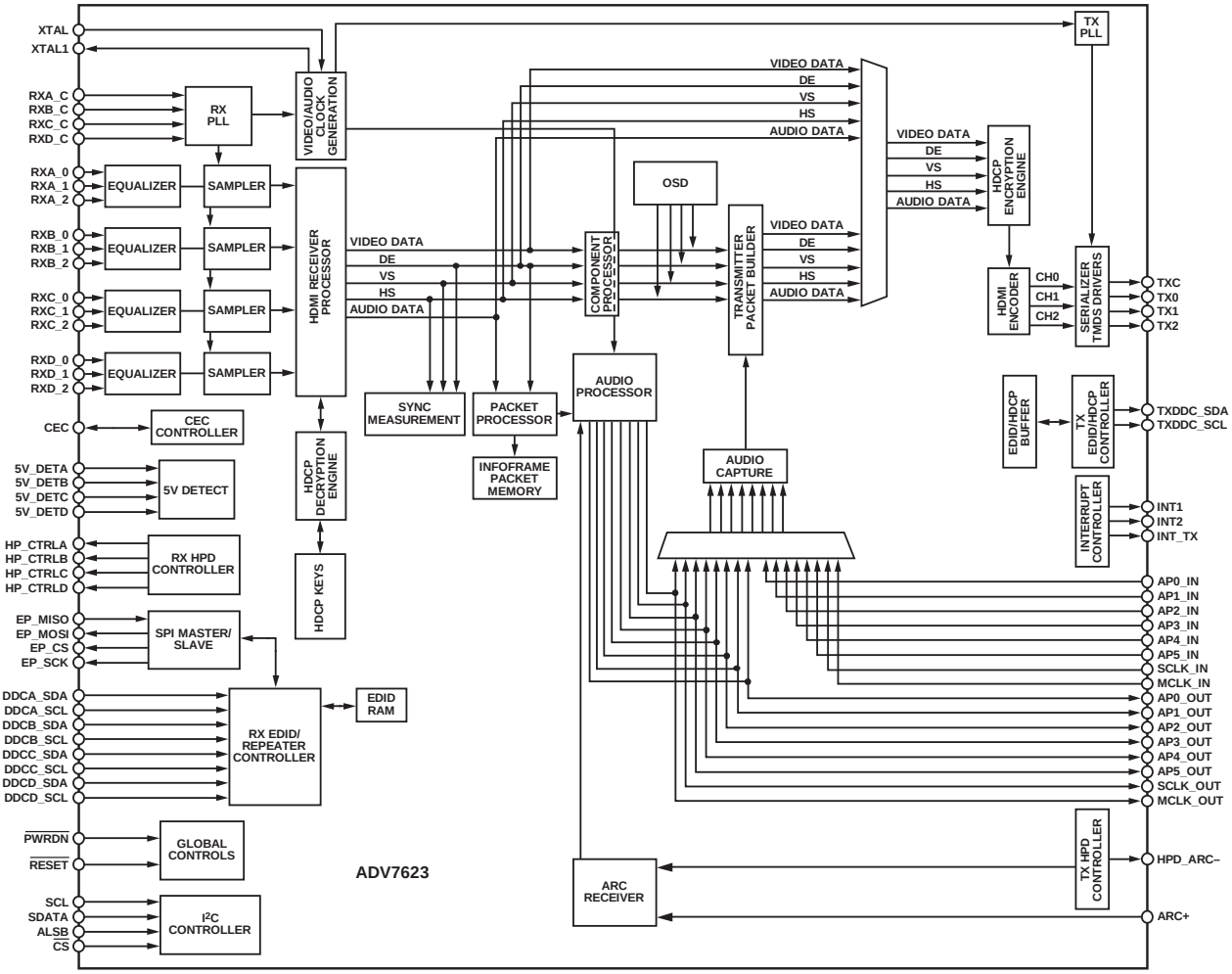
Pin No.	Mnemonic	Type	Description
1	DDCC_SCL	Digital input	HDCP Slave Serial Clock Port C. DDCC_SCL is a 3.3 V input that is 5 V tolerant.
2	CVDD	Power	Receiver Comparator Supply Voltage (1.8 V).
3	CGND	Ground	TVDD and CVDD Ground.
4	RXC_C–	HDMI input	Digital Input Clock Complement of Port C in the HDMI Interface.
5	RXC_C+	HDMI input	Digital Input Clock True of Port C in the HDMI Interface.
6	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
7	RXC_0–	HDMI input	Digital Input Channel 0 Complement of Port C in the HDMI Interface.
8	RXC_0+	HDMI input	Digital Input Channel 0 True of Port C in the HDMI Interface.
9	CGND	Ground	TVDD and CVDD Ground.
10	RXC_1–	HDMI input	Digital Input Channel 1 Complement of Port C in the HDMI Interface.
11	RXC_1+	HDMI input	Digital Input Channel 1 True of Port C in the HDMI Interface.
12	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).

Pin No.	Mnemonic	Type	Description
13	RXC_2−	HDMI input	Digital Input Channel 2 Complement of Port C in the HDMI Interface.
14	RXC_2+	HDMI input	Digital Input Channel 2 True of Port C in the HDMI Interface.
15	HP_CTRLD	Digital output	Hot Plug Detect for Port D.
16	5V_DETD	Digital input	5 V Detect Pin for Port D in the HDMI Interface.
17	DGND	Ground	DVDD Ground.
18	DVDD	Power	Digital Supply Voltage (1.8 V).
19	DDCD_SDA	Digital I/O	HDCP Slave Serial Data Port D. DDCD_SDA is a 3.3 V input/output that is 5 V tolerant.
20	DDCD_SCL	Digital input	HDCP Slave Serial Clock Port D. DDCD_SCL is a 3.3 V input that is 5 V tolerant.
21	CVDD	Power	Receiver Comparator Supply Voltage (1.8 V).
22	CGND	Ground	TVDD and CVDD Ground.
23	RXD_C−	HDMI input	Digital Input Clock Complement of Port D in the HDMI Interface.
24	RXD_C+	HDMI input	Digital Input Clock True of Port D in the HDMI Interface.
25	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
26	RXD_0−	HDMI input	Digital Input Channel 0 Complement of Port D in the HDMI Interface.
27	RXD_0+	HDMI input	Digital Input Channel 0 True of Port D in the HDMI Interface.
28	CGND	Ground	TVDD and CVDD Ground.
29	RXD_1−	HDMI input	Digital Input Channel 1 Complement of Port D in the HDMI Interface.
30	RXD_1+	HDMI input	Digital Input Channel 1 True of Port D in the HDMI Interface.
31	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
32	RXD_2−	HDMI input	Digital Input Channel 2 Complement of Port D in the HDMI Interface.
33	RXD_2+	HDMI input	Digital Input Channel 2 True of Port D in the HDMI Interface.
34	CVDD	Power	Receiver Comparator Supply Voltage (1.8 V).
35	CGND	Ground	TVDD and CVDD Ground.
36	TXPVDD	Power	1.8 V Power Supply for Digital and I/O Power Supply. This pin supplies power to the digital logic and I/Os. It should be filtered and as quiet as possible.
37	TXPLVDD	Power	1.8 V Power Supply.
38	TXGND	Ground	TXPVDD Ground.
39	TXPGND	Ground	TXPLVDD Ground.
40	EXT_SWING	Analog input	This pin sets the internal reference currents. Place an 887 Ω resistor (1% tolerance) between this pin and ground.
41	HPD_ARC−	Analog input	Hot Plug Detect Signal. This pin indicates to the interface whether the receiver is connected. It supports 1.8 V to 5 V CMOS logic levels.
42	ARC+	Analog input	Audio Return Channel Input (5 V Tolerant).
43	TXDDC_SDA	Digital I/O	Serial Port Data I/O to Receiver. This pin serves as the master to the DDC bus. It supports a 5 V CMOS logic level.
44	TXDDC_SCL	Digital output	Serial Port Data Clock to Receiver. This pin serves as the master clock for the DDC bus. It supports a 5 V CMOS logic level.
45	TXAVDD	Power	1.8 V Power Supply for TMDS Outputs.
46	TXGND	Ground	TXAVDD Ground.
47	TXC−	HDMI output	Differential Clock Output. Differential clock output at the TMDS clock rate; supports TMDS logic level.
48	TXC+	HDMI output	Differential Clock Output. Differential clock output at the TMDS clock rate; supports TMDS logic level.
49	TXGND	Ground	TXAVDD Ground.
50	TX0−	HDMI output	Differential Output Channel 0 Complement. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
51	TX0+	HDMI output	Differential Output Channel 0 True. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
52	TXGND	Ground	TXAVDD Ground.
53	TX1−	HDMI output	Differential Output Channel 1 Complement. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
54	TX1+	HDMI output	Differential Output Channel 1 True. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
55	TXAVDD	Power	1.8 V Power Supply for TMDS Outputs.

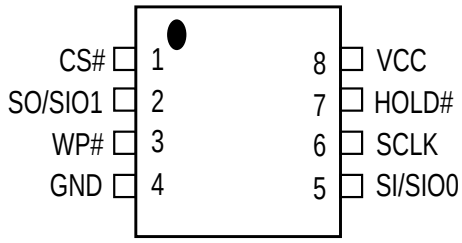
Pin No.	Mnemonic	Type	Description
13	RXC_2–	HDMI input	Digital Input Channel 2 Complement of Port C in the HDMI Interface.
14	RXC_2+	HDMI input	Digital Input Channel 2 True of Port C in the HDMI Interface.
15	HP_CTRLD	Digital output	Hot Plug Detect for Port D.
16	5V_DETD	Digital input	5 V Detect Pin for Port D in the HDMI Interface.
17	DGND	Ground	DVDD Ground.
18	DVDD	Power	Digital Supply Voltage (1.8 V).
19	DDCD_SDA	Digital I/O	HDCP Slave Serial Data Port D. DDCD_SDA is a 3.3 V input/output that is 5 V tolerant.
20	DDCD_SCL	Digital input	HDCP Slave Serial Clock Port D. DDCD_SCL is a 3.3 V input that is 5 V tolerant.
21	CVDD	Power	Receiver Comparator Supply Voltage (1.8 V).
22	CGND	Ground	TVDD and CVDD Ground.
23	RXD_C–	HDMI input	Digital Input Clock Complement of Port D in the HDMI Interface.
24	RXD_C+	HDMI input	Digital Input Clock True of Port D in the HDMI Interface.
25	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
26	RXD_0–	HDMI input	Digital Input Channel 0 Complement of Port D in the HDMI Interface.
27	RXD_0+	HDMI input	Digital Input Channel 0 True of Port D in the HDMI Interface.
28	CGND	Ground	TVDD and CVDD Ground.
29	RXD_1–	HDMI input	Digital Input Channel 1 Complement of Port D in the HDMI Interface.
30	RXD_1+	HDMI input	Digital Input Channel 1 True of Port D in the HDMI Interface.
31	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
32	RXD_2–	HDMI input	Digital Input Channel 2 Complement of Port D in the HDMI Interface.
33	RXD_2+	HDMI input	Digital Input Channel 2 True of Port D in the HDMI Interface.
34	CVDD	Power	Receiver Comparator Supply Voltage (1.8 V).
35	CGND	Ground	TVDD and CVDD Ground.
36	TXPVDD	Power	1.8 V Power Supply for Digital and I/O Power Supply. This pin supplies power to the digital logic and I/Os. It should be filtered and as quiet as possible.
37	TXPLVDD	Power	1.8 V Power Supply.
38	TXGND	Ground	TXPVDD Ground.
39	TXPGND	Ground	TXPLVDD Ground.
40	EXT_SWING	Analog input	This pin sets the internal reference currents. Place an 887 Ω resistor (1% tolerance) between this pin and ground.
41	HPD_ARC–	Analog input	Hot Plug Detect Signal. This pin indicates to the interface whether the receiver is connected. It supports 1.8 V to 5 V CMOS logic levels.
42	ARC+	Analog input	Audio Return Channel Input (5 V Tolerant).
43	TXDDC_SDA	Digital I/O	Serial Port Data I/O to Receiver. This pin serves as the master to the DDC bus. It supports a 5 V CMOS logic level.
44	TXDDC_SCL	Digital output	Serial Port Data Clock to Receiver. This pin serves as the master clock for the DDC bus. It supports a 5 V CMOS logic level.
45	TXAVDD	Power	1.8 V Power Supply for TMDS Outputs.
46	TXGND	Ground	TXAVDD Ground.
47	TXC–	HDMI output	Differential Clock Output. Differential clock output at the TMDS clock rate; supports TMDS logic level.
48	TXC+	HDMI output	Differential Clock Output. Differential clock output at the TMDS clock rate; supports TMDS logic level.
49	TXGND	Ground	TXAVDD Ground.
50	TX0–	HDMI output	Differential Output Channel 0 Complement. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
51	TX0+	HDMI output	Differential Output Channel 0 True. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
52	TXGND	Ground	TXAVDD Ground.
53	TX1–	HDMI output	Differential Output Channel 1 Complement. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
54	TX1+	HDMI output	Differential Output Channel 1 True. Differential output of the red data at 10× the pixel clock rate; supports TMDS logic level.
55	TXAVDD	Power	1.8 V Power Supply for TMDS Outputs.

Pin No.	Mnemonic	Type	Description
99	PGND	Ground	PVDD Ground.
100	PVDD	Power	PLL Supply Voltage (1.8 V).
101	XTAL	Miscellaneous analog	Input pin for 28.63636 MHz crystal or an external 1.8 V 28.63636 MHz clock oscillator source to clock the ADV7623.
102	XTAL1	Miscellaneous analog	Crystal Output Pin. This pin should be left floating if a clock oscillator is used.
103	PVDD	Power	PLL Supply Voltage (1.8 V).
104	PGND	Ground	PVDD Ground.
105	HP_CTRLA	Digital output	Hot Plug Detect for Port A.
106	5V_DETA	Digital input	5 V Detect Pin for Port A in the HDMI Interface.
107	RTERM	Miscellaneous analog	This pin sets the internal termination resistance. A 500 Ω resistor between this pin and ground should be used.
108	DDCA_SDA	Digital I/O	HDCP Slave Serial Data Port A. DDCA_SDA is a 3.3 V input/output that is 5 V tolerant.
109	DDCA_SCL	Digital input	HDCP Slave Serial Clock Port A. DDCA_SCL is a 3.3 V input that is 5 V tolerant.
110	CVDD	Power	Receiver Comparator Supply Voltage (1.8 V).
111	CGND	Ground	TVDD and CVDD Ground.
112	RXA_C−	HDMI input	Digital Input Clock Complement of Port A in the HDMI Interface.
113	RXA_C+	HDMI input	Digital Input Clock True of Port A in the HDMI Interface.
114	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
115	RXA_0−	HDMI input	Digital Input Channel 0 Complement of Port A in the HDMI Interface.
116	RXA_0+	HDMI input	Digital Input Channel 0 True of Port A in the HDMI Interface.
117	CGND	Ground	TVDD and CVDD Ground.
118	RXA_1−	HDMI input	Digital Input Channel 1 Complement of Port A in the HDMI Interface.
119	RXA_1+	HDMI input	Digital Input Channel 1 True of Port A in the HDMI Interface.
120	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
121	RXA_2−	HDMI input	Digital Input Channel 2 Complement of Port A in the HDMI Interface.
122	RXA_2+	HDMI input	Digital Input Channel 2 True of Port A in the HDMI Interface.
123	HP_CTRLB	Digital output	Hot Plug Detect for Port B.
124	5V_DETB	Digital input	5 V Detect Pin for Port B in the HDMI Interface.
125	DGND	Ground	DVDD Ground.
126	DVDD	Power	Digital Supply Voltage (1.8 V).
127	DDCB_SDA	Digital I/O	HDCP Slave Serial Data Port B. DDCB_SDA is a 3.3 V input/output that is 5 V tolerant.
128	DDCB_SCL	Digital input	HDCP Slave Serial Clock Port B. DDCB_SCL is a 3.3 V input that is 5 V tolerant.
129	CVDD	Power	Receiver Comparator Supply Voltage (1.8 V).
130	CGND	Ground	TVDD and CVDD Ground.
131	RXB_C−	HDMI input	Digital Input Clock Complement of Port B in the HDMI Interface.
132	RXB_C+	HDMI input	Digital Input Clock True of Port B in the HDMI Interface.
133	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
134	RXB_0−	HDMI input	Digital Input Channel 0 Complement of Port B in the HDMI Interface.
135	RXB_0+	HDMI input	Digital Input Channel 0 True of Port B in the HDMI Interface.
136	CGND	Ground	TVDD and CVDD Ground.
137	RXB_1−	HDMI input	Digital Input Channel 1 Complement of Port B in the HDMI Interface.
138	RXB_1+	HDMI input	Digital Input Channel 1 True of Port B in the HDMI Interface.
139	TVDD	Power	Receiver Terminator Supply Voltage (3.3 V).
140	RXB_2−	HDMI input	Digital Input Channel 2 Complement of Port B in the HDMI Interface.
141	RXB_2+	HDMI input	Digital Input Channel 2 True of Port B in the HDMI Interface.
142	HP_CTRLC	Digital output	Hot Plug Detect for Port C.
143	5V_DETC	Digital input	5 V Detect Pin for Port C in the HDMI Interface.
144	DDCC_SDA	Digital I/O	HDCP Slave Serial Data Port C. DDCC_SDA is a 3.3 V input/output that is 5 V tolerant.

ADV7623 Block diagram



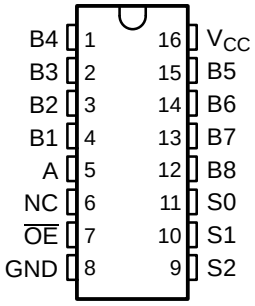
DIGITAL_HDMI_ADV7623 : IC732
MX25L3206EM2I-12G (except : E2)
MX25L6406EM2I-12G (ONLY E2)



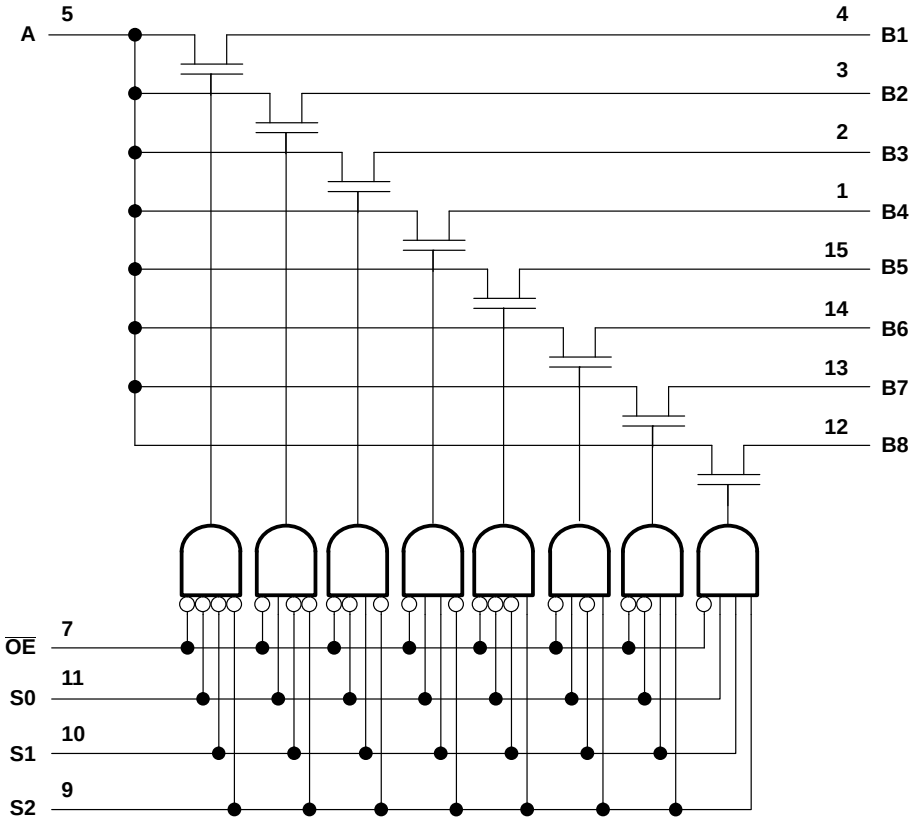
PIN DESCRIPTION

SYMBOL	DESCRIPTION
CS#	Chip Select
SI/SIO0	Serial Data Input (for 1 x I/O)/ Serial Data Input & Output (for Dual Output mode)
SO/SIO1	Serial Data Output (for 1 x I/O)/ Serial Data Output (for Dual Output mode)
SCLK	Clock Input
WP#	Write protection
HOLD#	Hold, to pause the device without deselecting the device
VCC	+ 3.3V Power Supply
GND	Ground

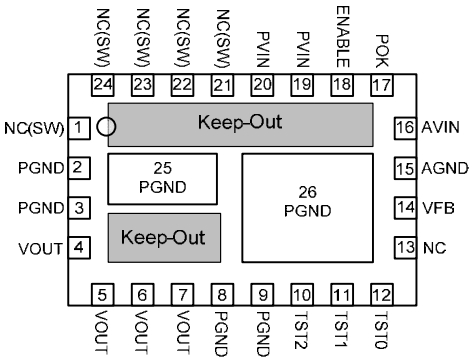
SN74CBT3251PWR (DIGITAL_HDMI_ADV7623 : IC733)



Block diagram



EN5339QI (DIGITAL_DIGITAL SUPPLY : IC741~745, 747)

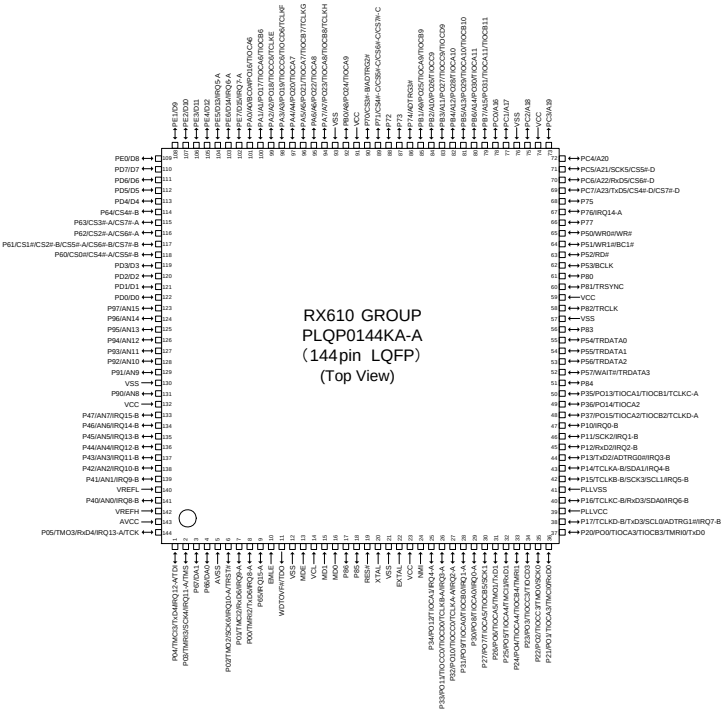


EN5339QI Terminal Functions

Pin Description

PIN	NAME	FUNCTION
1, 21-24	NC(SW)	NO CONNECT: These pins are internally connected to the common switching node of the internal MOSFETs. They must be soldered to PCB but not be electrically connected to any external signal, ground, or voltage. Failure to follow this guideline may result in device damage.
2-3, 8-9	PGND	Input and output power ground. Connect these pins to the ground electrode of the input and output filter capacitors. See VOUT, PVIN descriptions and Layout Recommendation for more details.
4-7	VOUT	Regulated converter output. Connect to the load and place output filter capacitor(s) between these pins and PGND pins 7 and 8. See layout recommendation for details
10	TST2	Test Pin. For Enpirion internal use only. Connect to AVIN at all times.
11	TST1	Test Pin. For Enpirion internal use only. Connect to AVIN at all times.
12	TST0	Test Pin. For Enpirion internal use only. Connect to AVIN at all times.
13	NC	NO CONNECT: This pin must be soldered to PCB but not electrically connected to any other pin or to any external signal, voltage, or ground. This pin may be connected internally. Failure to follow this guideline may result in device damage.
14	VFB	This is the external feedback input pin. A resistor divider connects from the output to AGND. The mid-point of the resistor divider is connected to VFB. A feed-forward capacitor is required parallel to the upper feedback resistor (R_A). The output voltage regulation is based on the VFB node voltage equal to 0.600V.
15	AGND	The quiet ground for the control circuits. Connect to the ground plane with a via right next to the pin.
16	AVIN	Analog input voltage for the control circuits. Connect this pin to the input power supply (PVIN) at a quiet point. Decouple with a 1uF capacitor to AGND.
17	POK	POK is an open drain output. Refer to Power OK section for details. Leave POK open if unused.
18	ENABLE	Output Enable. A logic high level on this pin enables the output and initiates a soft-start. A logic low signal disables the output and discharges the output to GND. This pin must not be left floating.
19-20	PVIN	Input power supply. Connect to input power supply and place input filter capacitor(s) between these pins and PGND pins 2 to 3.
25,26	PGND	Not a perimeter pin. Device thermal pad to be connected to the system GND plane for heat-sinking purposes. See Layout Recommendation section.

R5F56108VNFP (DIGITAL_MCU : IC751)



R5F56108VNFP Terminal Functions

Pin	Pin Name	Symbol	I/O	Pu/Pd	Lv Cnv	STBY	STOP	CEC STBY	Function
1	P04/IRQ12-A/TMCI3/ TxD4/TDI	TDI/TXD MITSUBISHI/ NC(NORMRAL)	I/O/I	M3VPu		-/-/I	-/-/I	I	E20 Emulator control pin
2	P03/IRQ11-A/TMRI3/ SCK4/TMS	TMS/ NC(NORMRAL)	I/I	M3VPu		-/I	-/I	I	E20 Emulator control pin
3	P67/DA1	HIN SELA	O			L	L	L	HDMI +5V (TC4051) control pin
4	P66/DA0	HIN SELB	O			L	L	L	HDMI +5V (TC4051) control pin
5	AVSS	AVSS	-			-	-	-	Ground pin.
6	P02/IRQ10-A/TMO2/ SCK6/TRST#	TRST#/ NC(NORMRAL)	I/I	Pd		I/I	I/I	I	E20 Emulator control pin
7	P01/IRQ9-A/TMCI2/ RxD6	RXD MI232O	I	M3VPu		I	I	I	External data input port
8	P00/IRQ8-A/TMRI2/ TxD6	TXD MO232I	O			L	L	L	External data output port
9	P65/IRQ15-A	POWER KEY	I	M3VPu		I	I	I	Detect POWER switch
10	EMLE	EMLE	I	Pd		-	-	-	E20 Emulator control pin
11	WDTOVF#/TDO	TDO/WDTOVF#	O/O			-	-	-	E20 Emulator control pin
12	VSS	VSS	I			-	-	-	Ground pin.
13	MDE	MDE	I	Pd		-	-	-	Pins for setting the operating mode
14	VCL	VCL	I			-	-	-	Smoothing capacitor connection pin
15	MD1	MD1	I	M3VPu		-	-	-	Pins for setting the operating mode
16	MD0	MD0	I	M3VPu		-	-	-	
17	P86	CEC POWER2	O			L	L	H	CEC STANDBY power control
18	P85	Tx EN	O			L	L	L	AD8195 control
19	RES#	RESET	I			-	-	-	Reset signal input pin.
20	XTAL	XTAL	I			-	-	-	Pins for a crystal resonator.
21	VSS	VSS	-			-	-	-	Ground pin.
22	EXTAL	EXTAL	-			-	-	-	Pins for a crystal resonator.
23	VCC	VCC	-			-	-	-	Power supply pin.
24	NMI	NMI	I	M3VPu		-	-	-	Non-maskable interrupt request signal(Pull-up)
25	P34/IRQ4-A/PO12/ TIOCA1	BDOWN	I			I	I	I	Detect power down
26	P33/IRQ3-A/PO11/ TIOCC0/TIOCD0/ TCLKB-A	DAC.PLD ERR	I			L	L	L	Detect DAC.PLD ERROR
27	P32/IRQ2-A/PO10/ TIOCC0/TCLKA-A	DA POWER2	O			L	L	L	DIGITAL AUDIO power supply (D1.0V) control pin
28	P31/IRQ1-A/PO9/ TIOCA0/TIOCB0	ES DET	I			I	I	I	For debug

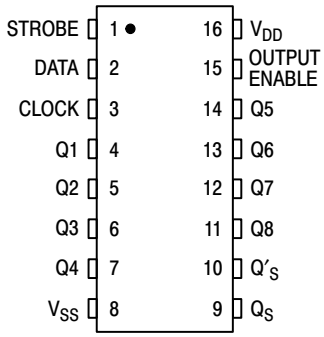
Pin	Pin Name	Symbol	I/O	Pu/Pd	Lv Cnv	STBY	STOP	CEC STBY	Function
29	P30/IRQ0-A/PO8/ TIOCA0	RC IN	I			I	I	I	remote input
30	P27/PO7/TIOCA5/ TIOCB5/SCK1	Hi-B RL	O			L	L	L	HIGH B RELAY control pin
31	P26/PO6/TIOCA5/ TMO1/TxD1	PSCL	I/O	C	CEC3VPu	O/L	L	L	HDMI (MN864788/788A) control pin
32	P25/PO5/TIOCA4/ TMCI1/RxD1	PSDA	I/O	C	CEC3VPu	O/L	L	L	HDMI (MN864788/788A) control pin
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(CY920) RESET control pin
35	P22/PO2/TIOCC3/ TMO0/SCK0	E SPI CLK	O	N3VPu		L	L	L	ETHERNET(CY920) control pin
36	P21/PO1/TIOCA3/ TMCI0/RxD0	E SPI MIEO	I	N3VPu		I	L	I	ETHERNET(CY920) control pin
37	P20/PO0/TIOCA3/ TIOCB3/TMRI0/TxD0	E SPI MOEI	O	N3VPu		L	L	L	ETHERNET(CY920) control pin
38	P17/IRQ7-B/ TCLKD-B/TxD3/ SCL0/ADTRG1#	TU SCLK	O			L	L	L	TUNER control pin
39	PLLVCC	PLLVCC	-			-	-	-	Power supply pin for the PLL circuit
40	P16/IRQ6-B/ TCLKC-B/RxD3/ SDA0	TU SDIO	I_O			L	L	L	TUNER control pin
41	PLLVSS	PLLVSS	-			-	-	-	Ground pin for the PLL circuit
42	P15/IRQ5-B/ TCLKB-B/SCK3/ SCL1	EEPROM SCL	O	M3VPu		I	I	I	EEPROM control pin
43	P14/IRQ4-B/ TCLKA-B/SDA1	EEPROM SDA	I_O	M3VPu		I	I	I	EEPROM control pin
44	P13/IRQ3-B/TxD2/ ADTRG0#	ADV7623 SPI MO	O			L	L	L	HDMI transceiver w/ GUI(ADV7623) control pin
45	P12/IRQ2-B/RxD2	ADV7623 SPI MI	I			L	L	L	HDMI transceiver w/ GUI(ADV7623) control pin
46	P11/IRQ1-B/SCK2	ADV7623 SPI CLK	O			L	L	L	HDMI transceiver w/ GUI(ADV7623) control pin
47	P10/IRQ0-B	ADV7623 SPI CS	O			L	L	L	HDMI transceiver w/ GUI(ADV7623) control pin
48	P37/PO15/TIOCA2/ TIOCB2/TCLKD-A	HSCL (400k)	O	CEC3VPu		L	L	L	HDMI transceiver w/ GUI(ADV7623) control pin
49	P36/PO14/TIOCA2	HSDA (400k)	I_O	CEC3VPu		L	L	L	HDMI transceiver w/ GUI(ADV7623) control pin
50	P35/PO13/TIOCA1/ TIOCB1/TCLKC-A	MN864788 RST	O	SW3VPu		L	L	L	HDMI Tx (MN864788) Reset control pin
51	P84	CEC_OUT	O			L	L	-	CEC-D control pin
52	P57/WAIT#/ TRDATA3	MN864788A RST	O	SW3VPu		L	L	L	HDMI Rx (MN864788A) Reset control pin
53	P56/TRDATA2	E POWER1	O			L	L	L	ETHERNET (CY920) power supply control
54	P55/TRDATA1	ADV7623 RST	O	SW3VPu		L	L	L	HDMI transceiver w/ GUI(ADV7623) reset control pin
55	P54/TRDATA0	E POWER2	O			L	L	L	ETHERNET (CY920) power supply control
56	P83	E POWER3	O			L	L	L	ETHERNET (CY920) power supply control
57	VSS	VSS	-			-	-	-	Ground pin.
58	P82/TRCLK	FL CE	O			L	L	L	Fluorescent display control pin
59	VCC	VCC	-			-	-	-	Power supply pin.
60	P81/TRSYNC	FL RST	O			L	L	L	Fluorescent display control pin
61	P80	E POWER4	O			L	L	L	ETHERNET (CY920) power supply control
62	BCLK/P53(for Input)	DSP BSY	I			I	I	I	DSP BSY signal input
63	P52/RD#	MN864788A HINT	I	Pu		I	I	I	HDMI Rx (MN864788A) interrupt signal det
64	P51/WR1#/BC1#	PWR_UNBAL	I			I	L	I	Poweramp unbalance det
65	P50/WR0#/WR#	HIN SELC	I			I	L	I	HDMI +5V (TC4051) control pin
66	P77	H5V DET	I			I	I	I	HDMI IN 5V detect signal pin
67	P76/IRQ14-A	TU GPO2_INT	I			L	L	L	TUNER control pin
68	P75	DONGLE DET	I			I	L	I	For debug
69	PC7/A23/CS4#-D/ CS7#-D/TxD5	DSP MOSI	O	DA3VPu		L	L	L	DSP(CS49844A) control pin

Pin	Pin Name	Symbol	I/O	Pu/Pd	Lv Cnv	STBY	STOP	CEC STBY	Function
70	PC6/A22/CS6#-D/ RxD5	DSP MISO	I	DA3VPu		L	L	L	DSP(CS49844A) control pin
71	PC5/A21/CS5#-D/ SCK5	DSPI CLK	O	DA3VPu		L	L	L	DSP(CS49844A) control pin
72	PC4/A20	DSP RST	O			L	L	L	DSP(CS49844A) reset control pin
73	PC3/A19	DSP FLAG0	I	Pd		L	L	L	DSP(CS49844A) interrupt signal input pin
74	VCC	VCC	-			-	-	-	Power supply pin.
75	PC2/A18	DSP ICS	O	DA3VPu		L	L	L	DSP(CS49844A) control pin
76	VSS	VSS	-			-	-	-	Ground pin.
77	PC1/A17	WHITE LED(NA)/ GREEN LED(AP/CH)	O			L	L	L	POWER LED control pin
78	PC0/A16	RED LED	O			L/H	L	H	POWER/STANDBY LED control pin
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	DSP ROM WRITE	O			L	L	L	DSP ROM writing control
82	PB4/A12/PO28/ TIOCA10	TU_SEN	O			L	L	L	TUNER control pin
83	PB3/A11/PO27/ TIOCC9/TIOCD9	C/S RL	O			L	L	L	SP RELAY control pin
84	PB2/A10/PO26/ TIOCC9	SB RL	O			L	L	L	RELAY control pin
85	PB1/A9/PO25/ TIOCA9/TIOCB9	D5V POWER	O			L	L	H	Digital 5V power supply control pin
86	P74/ADTRG3#	DIR CE	O			L	L	L	DIR (PCM9211) control pin
87	P73	DIR DIN	O			L	L	L	DIR (PCM9211) control pin
88	P72	DIR DOUT	I	DA3VPu		I	I	I	DIR (PCM9211) control pin
89	P71/CS4#-C/ CS5#-C/CS6#-C/ CS7#-C	DIR CLK	O			L	L	L	DIR (PCM9211) control pin
90	P70/CS3#-B/ ADTRG2#	DIR RST	O			L	L	L	DIR (PCM9211) control pin
91	VCC	VCC	-			-	-	-	Power supply pin.
92	PB0/A8/PO24/ TIOCA9	7623 ROM HOLD	O			L	L	L	FLASH ROM for GUI control pin
93	VSS	VSS	-			-	-	-	Ground pin.
94	PA7/A7/PO23/ TIOCA8/TIOCB8/ TCLKH	VEXP OE	O			L	L	L	EXPANDER (MC14094) control pin
95	PA6/A6/PO22/ TIOCA8	VSEL A	I			I	I	I	Master Volume signal input pin
96	PA5/A5/PO21/ TIOCA7/TIOCB7/ TCLKG	VSEL B	I			I	I	I	Master Volume signal input pin
97	PA4/A4/PO20/ TIOCA7	ZVOL DATA(NA)/ NC(AP/CH)	O			L	L	L	ZONE VOL(BD3812) control pin
98	PA3/A3/PO19/ TIOCC6/TIOCD6/ TCLKF	ZVOL CLK(NA)/ NC(AP/CH)	O			L	L	L	ZONE VOL(BD3812) 制御
99	PA2/A2/PO18/ TIOCC6/TCLKE	PRE Z2 MUTE(NA)/ NC(AP/CH)	O			L	L	L	ZONE VOL(BD3812) control pin
100	PA1/A1/PO17/ TIOCA6/TIOCB6	CLK MUTE	O			L	L	L	Audio PLD (5M80ZT100C5N) control pin
101	PA0/A0/BC0#/PO16/ TIOCA6	PRE MUTE	O			L	L	L	MUTE for preout control pin 制御
102	PE7/IRQ7-A/D15	DSP FLAG3	I			L	L	L	DSP(CS49844A) interrupt signal input pin
103	PE6/IRQ6-A/D14	MN864788 HINT	I			I	I	I	HDMI Tx (MN864788) interrupt signal input pin
104	PE5/IRQ5-A/D13	MN864788 HAINT	I			I	I	I	HDMI Tx (MN864788) interrupt signal input pin
105	PE4/D12	ISEL A	I			I	I	I	Input Selector signal input pin
106	PE3/D11	ISEL B	I			I	I	I	Input Selector signal input pin

Pin	Pin Name	Symbol	I/O	Pu/Pd	Lv Cnv	STBY	STOP	CEC STBY	Function
107	PE2/D10	VOL CLK	O			L	L	L	Input selecter w/ E.volume(NJU72340A) control pin
108	PE1/D9	VOL DATA	O			L	L	L	Input selecter w/ E.volume(NJU72340A) control pin
109	PE0/D8	PLD WRITE	O			L	L	L	Audio PLD (5M80ZT100C5N) control pin
110	PD7/D7	JTAG TDO	I			L	L	L	Audio PLD (5M80ZT100C5N) control pin
111	PD6/D6	JTAG TMS/ APLD CS	O/O			L	L	L	Audio PLD (5M80ZT100C5N) control pin
112	PD5/D5	JTAG TDI/APLD DATA/DAC DATA	O/O			L	L	L	Audio PLD (5M80ZT100C5N) control pin
113	PD4/D4	JTAG TCK/ APLD CLK/DAC CLK	O/O			L	L	L	Audio PLD (5M80ZT100C5N) control pin
114	P64/CS4#-B	VEXP STB	O			L	L	L	EXPANDER (MC14094) control pin
115	P63/CS3#-A/CS7#-A	THERMAL A	I	SW3VPu		I	L	I	PROTECTION detect signal input pin
116	P62/CS2#-A/CS6#-A	E SPI CS	O	N3VPu		L	L	L	ETHERNET(CY920) control pin
117	P61/CS1#/CS2#-B/ CS5#-A/CS6#-B/ CS7#-B	DAC MS	O			L	L	L	DAC (PCM1690) control pin
118	P60/CS0#/CS4#-A/ CS5#-B	DAC RST	O			L	L	L	DAC (PCM1690) control pin
119	PD3/D3	VEXP CLK	O			L	L	L	EXPANDER (MC14094) control pin
120	PD2/D2	VEXP DATA	O			L	L	L	EXPANDER (MC14094) control pin
121	PD1/D1	FL CLK	O			L	L	L	Fluorescent display control pin
122	PD0/D0	FL DATA	O			L	L	L	Fluorescent display control pin
123	P97/AN15	DA POWER	O			L	L	L	DIGITAL AUDIO power supply control pin
124	P96/AN14	CEC POWER	O			L	L	※	CEC STANDBY power supply control
125	P95/AN13	DV POWER1	O			L	L	※	DIGITAL VIDEO power supply control pin
126	P94/AN12	THERMAL B	I	SW3VPu		I	L	I	PROTECTION detect signal input pin
127	P93/AN11	MAIN POWER	O			L	L	L	Power supply control pin
128	P92/AN10	CPU POWER	O			L	L	L	CPU POWER supply control pin
129	P91/AN9	AMPSIGDET	I			I	L	I	AMP sig. detect signal input pin
130	VSS	VSS	-			-	-	-	Ground pin.
131	P90/AN8	MODE	I			I	I	I	Region setting pin
132	VCC	VCC	-			-	-	-	Power supply pin.
133	P47/IRQ15-B/AN7	DC DET/ASO	I			I	I	I	PROTECTION detect signal input pin
134	P46/IRQ14-B/AN6	H/P DET / MIC DET	I			I	I	I	Headphone insert detect pin
135	P45/IRQ13-B/AN5	KEY3	I	SW3VPu		I	I	I	Key control signalinput pin
136	P44/IRQ12-B/AN4	KEY2	I	SW3VPu		I	I	I	Key control signalinput pin
137	P43/IRQ11-B/AN3	KEY1	I	SW3VPu		I	I	I	Key control signalinput pin
138	P42/IRQ10-B/AN2	E SPI REQ	I	Pd		I	L	I	ETHERNET(CY920) control pin
139	P41/IRQ9-B/AN1	CURRENT DET	I			I	L	I	Current level monitor pin
140	AVSS	AVSS	-			-	-	-	Ground pin.
141	P40/IRQ8-B/AN0	CEC_IN	I	SW3VPu		I	I	I	CEC-D control pin
142	VREF	VREF	-			-	-	-	Reference power supply pin
143	AVCC	AVCC	-			-	-	-	Analog power supply pin
144	P05/IRQ13-A/TMO3/ RxD4/TCK	TCK/RXD MITSUBISHI/ NC(NORMRAL)	I/I/I	M3VPu		-/-/I	-/-/I	I	E20 Emulator control pin

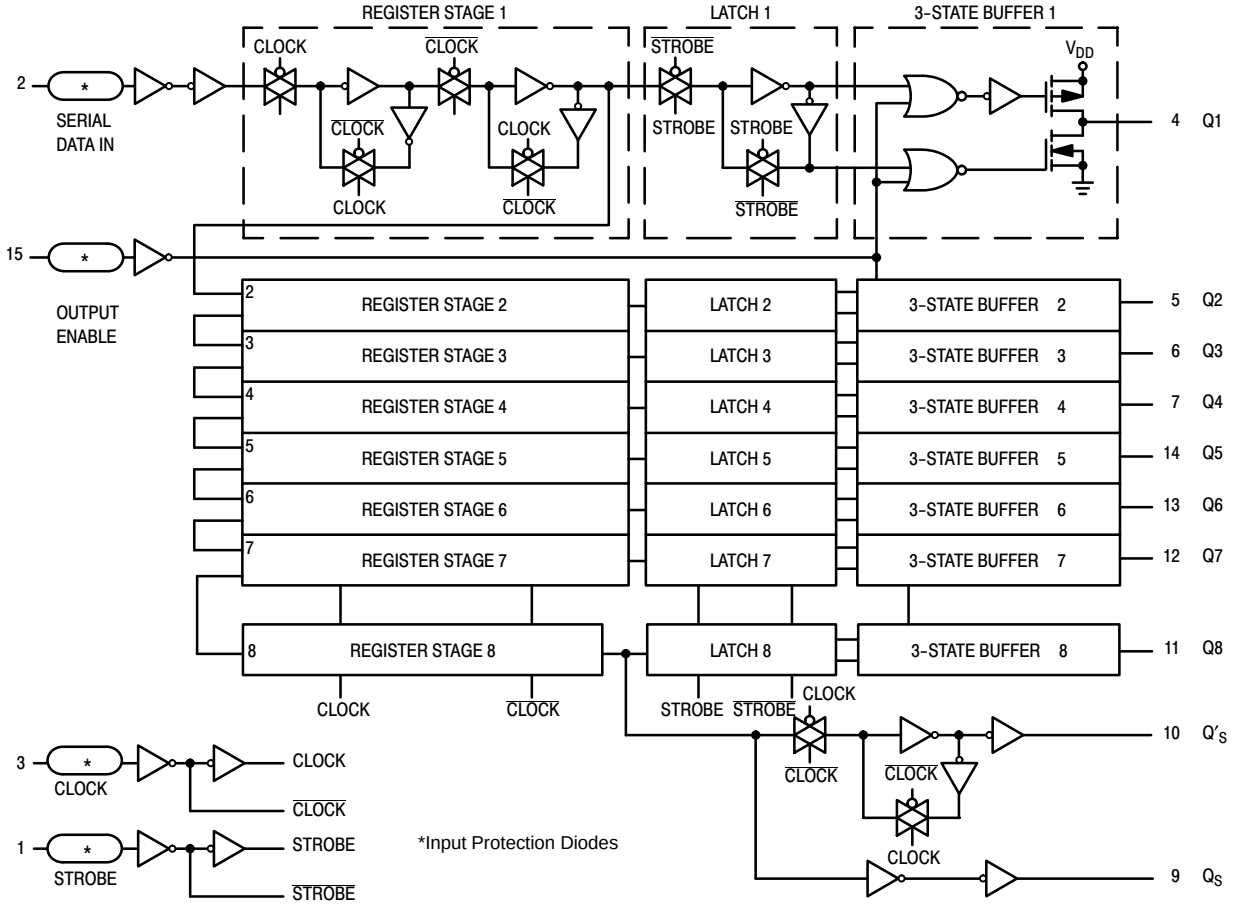
MC14094BDTR2G (DIGITAL_MCU : IC753)

PIN ASSIGNMENT



Block diagram

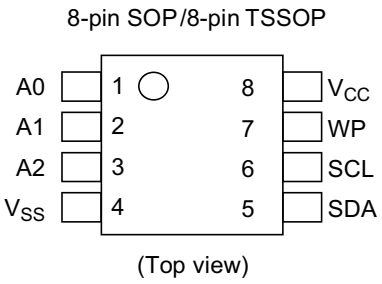
BLOCK DIAGRAM



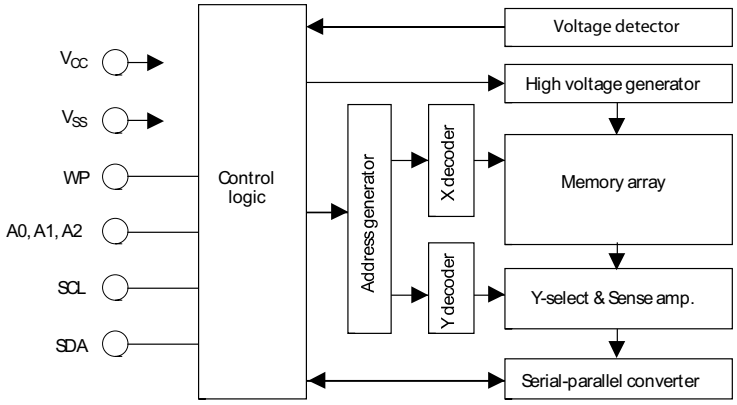
Terminal Functions

	Symbol	I/O	Pu/Pd	Lv Cnv	STBY	STOP	CEC STBY	Function
Q1	HPD1				L	L	L	Hot-Plug-Detect (HDMI) control pin
Q2	HPD2				L	L	L	Hot-Plug-Detect (HDMI) control pin
Q3	HPD3				L	L	L	Hot-Plug-Detect (HDMI) control pin
Q4	HPD4				L	L	L	Hot-Plug-Detect (HDMI) control pin
Q5	HPD5				L	L	L	Hot-Plug-Detect (HDMI) control pin
Q6	HPD6				L	L	L	Hot-Plug-Detect (HDMI) control pin
Q7	VIN A				L	L	L	COMPOSITE VIDEO SELECT IC(NJM2595) control pin
Q8	VIN B				L	L	L	COMPOSITE VIDEO SELECT IC(NJM2595) control pin

R1EX24128BSASOI (DIGITAL_MCU : IC752)



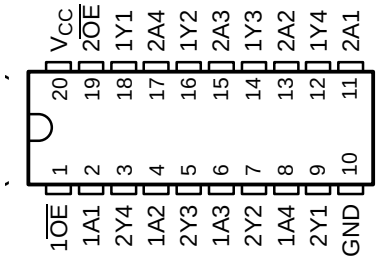
Block diagram



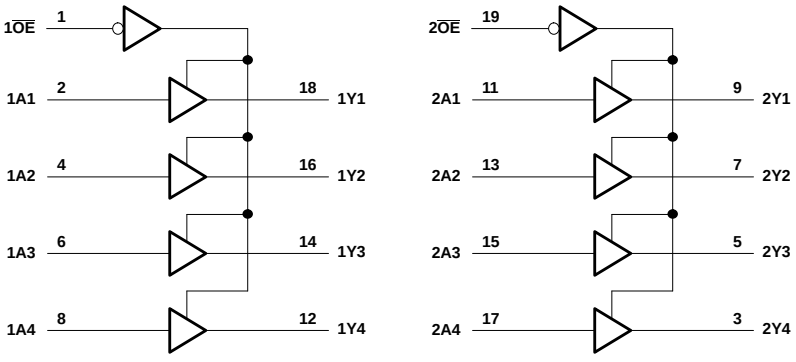
Pin Function Descriptions

Pin name	Function
A0 to A2	Device address
SCL	Serial clock input
SDA	Serial data input/output
WP	Write protect
V_{CC}	Power supply
V_{SS}	Ground

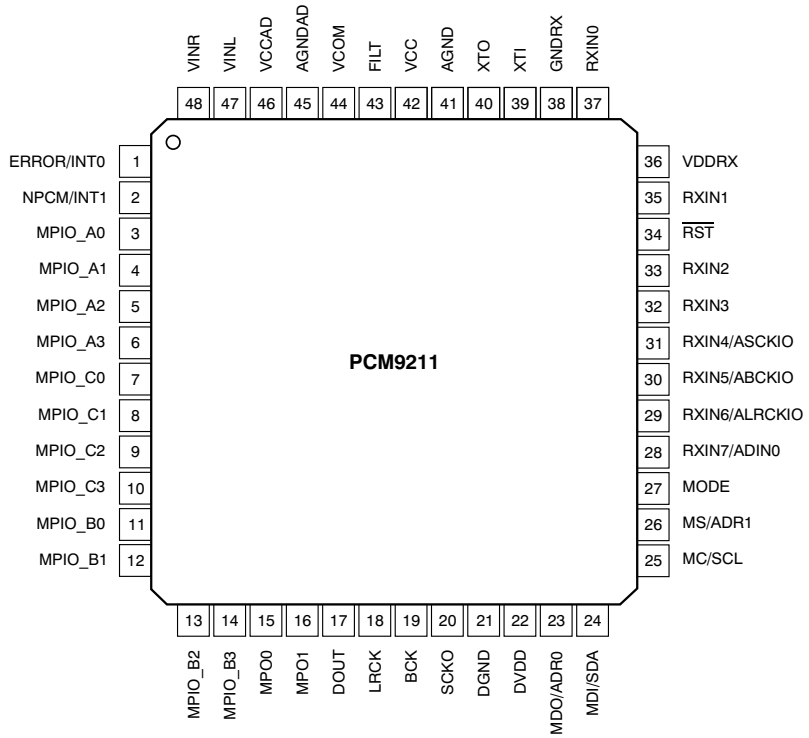
SN74LVC244APWR (DIGITAL_MCU LEVEL CHG : IC761)
(DIGITAL_DSP : IC783)



Block diagram



PCM9211PTR (DIGITAL_DIR : IC772)



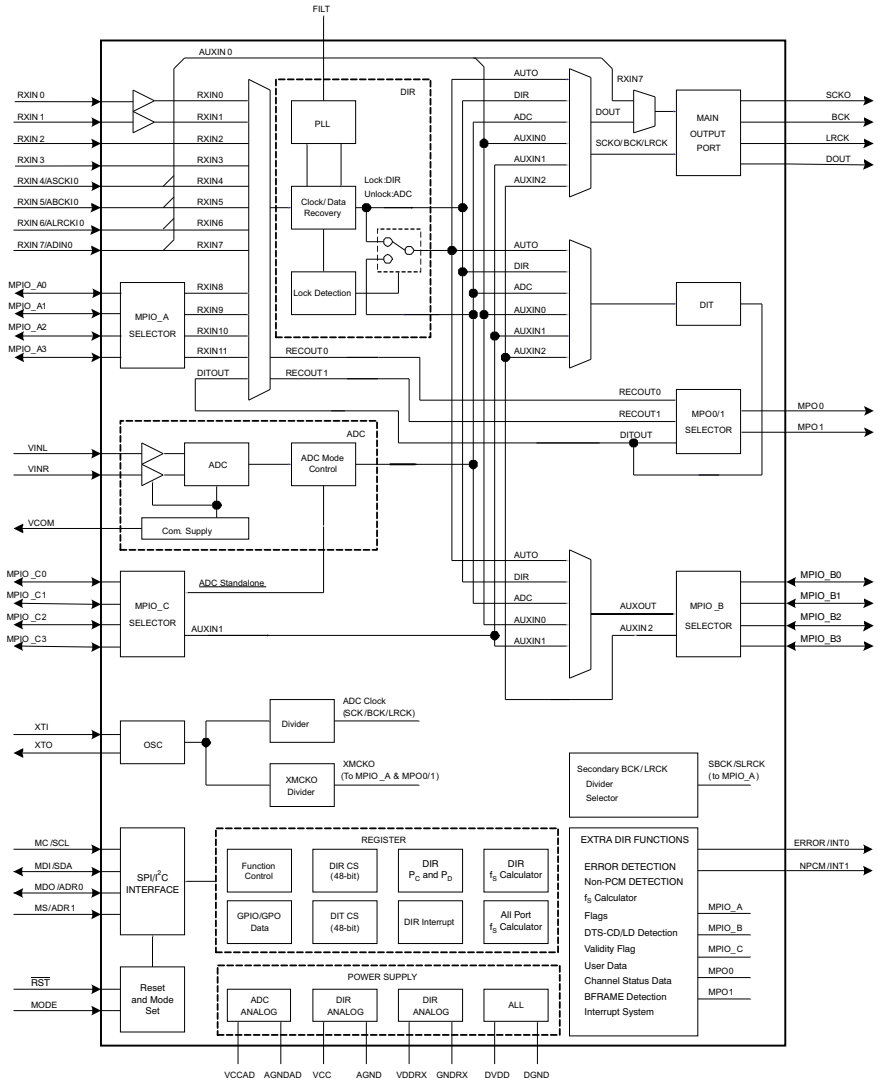
PIN Functions

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

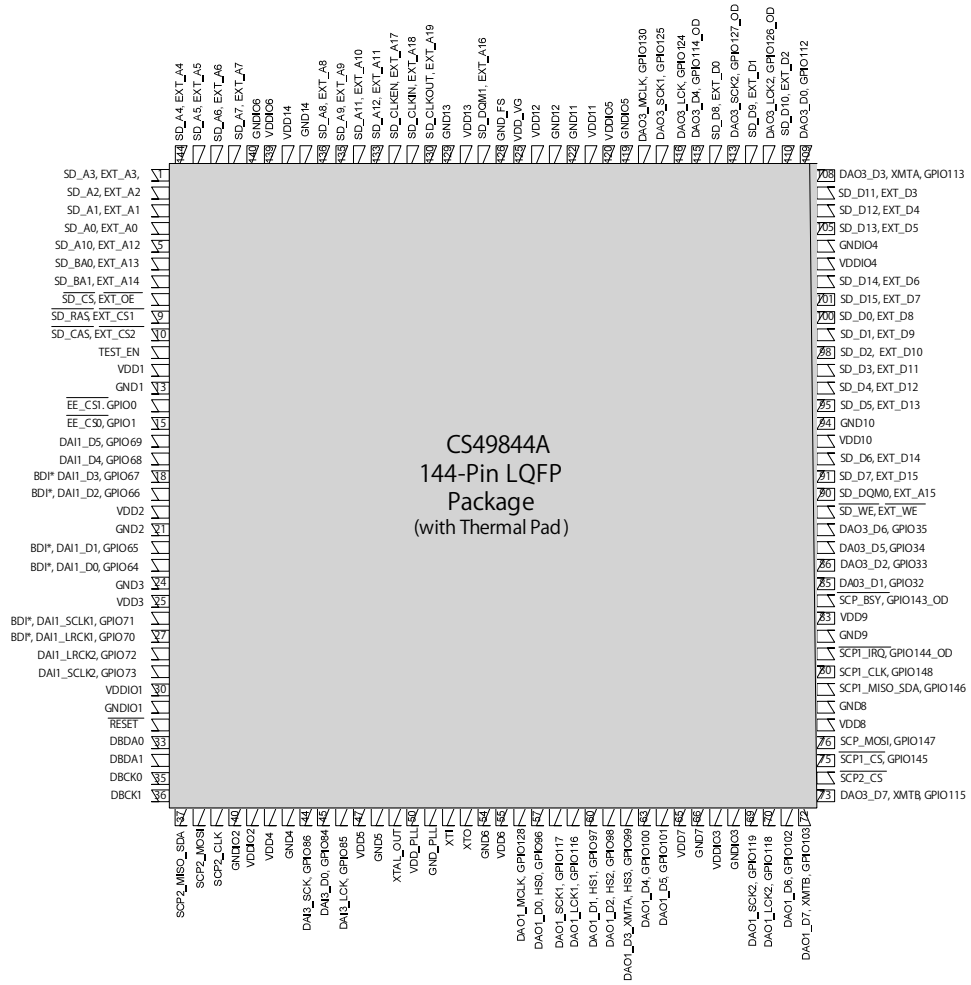
PIN				DESCRIPTION
NO.	NAME	I/O	5-V TOLERANT	
34	RST	I	Yes	Reset Input, active low(2) (4)
35	RXIN1	I	Yes	Biphase signal, input 1, built-in coaxial amplifier
36	VDDRX	–	–	Power supply, 3.3 V (typ.), for RXIN0 and RXIN1.
37	RXIN0	I	Yes	Biphase signal, input 0, built-in coaxial amplifier
38	GNDRX	-	-	Ground,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

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

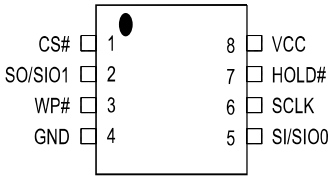
PCM9211PTR BLOCK DIAGRAM



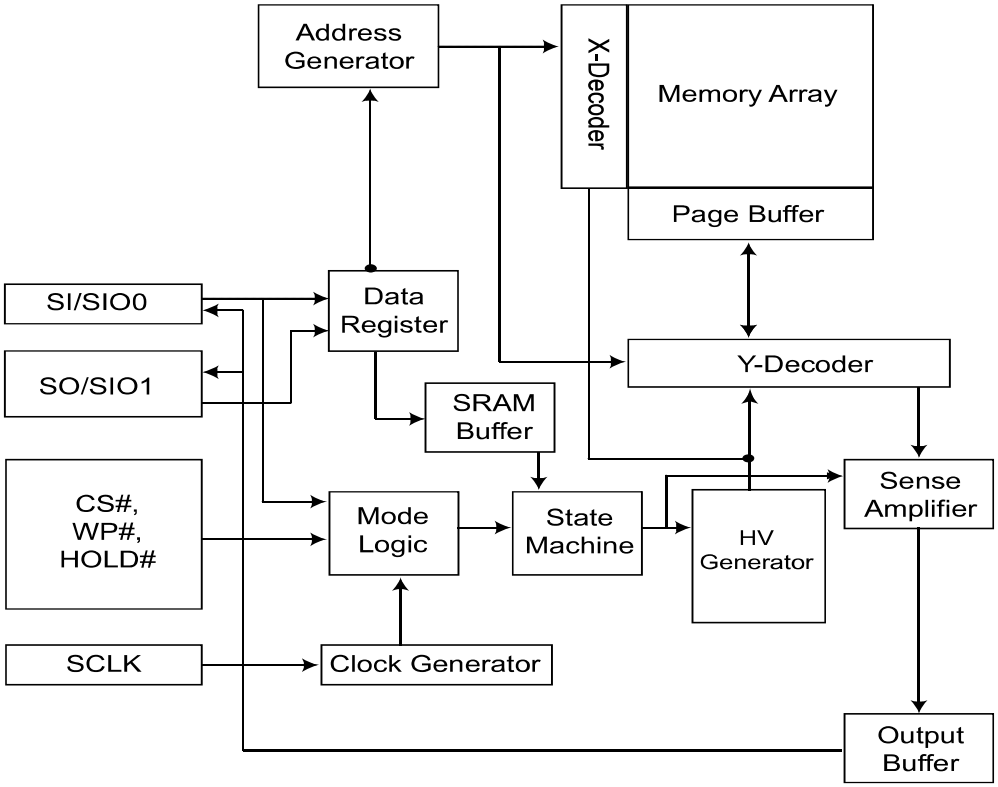
CS49844A-CQZ (DIGITAL_DSP : IC781)



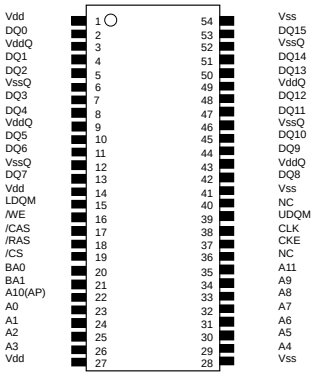
MX25L6406EM2I-12G (DIGITAL_DSP : IC782)



Block diagram

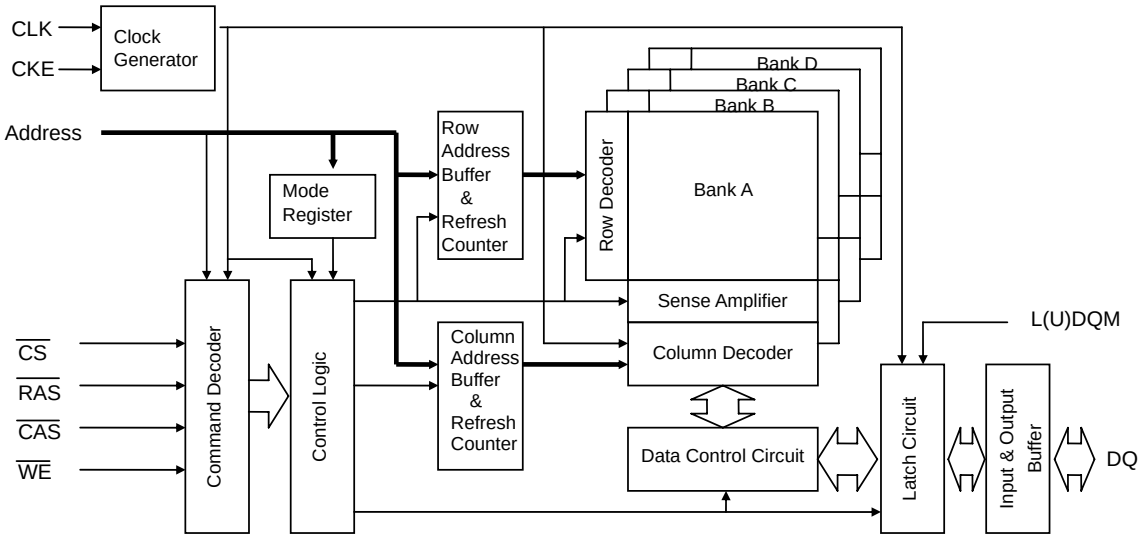


M12L64164A-5TG2Y (DIGITAL_DSP : IC784)

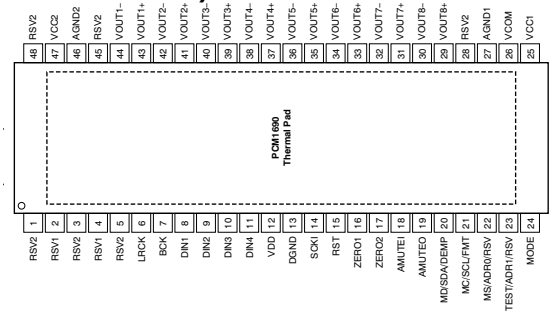


CLK	: Master Clock	U,LDQM	: Output Disable / Write Mask
CKE	: Clock Enable	A0-11	: Address Input
/CS	: Chip Select	BA0,1	: Bank Address
/RAS	: Row Address Strobe	Vdd	: Power Supply
/CAS	: Column Address Strobe	VddQ	: Power Supply for Output
/WE	: Write Enable	Vss	: Ground
DQ0-15	: Data I/O	VssQ	: Ground for Output

Block diagram



PCM1690DCAR (DIGITAL_MAIN DAC : IC791)

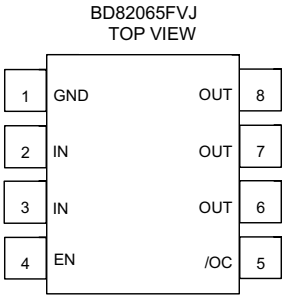


PCM1690 Pin Function

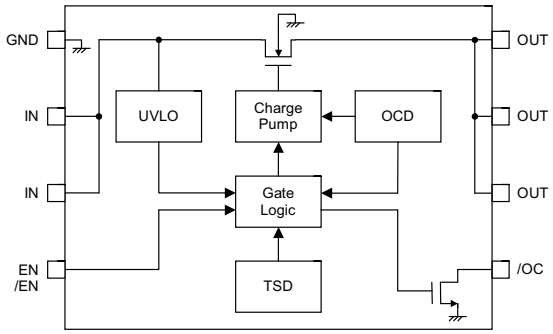
TERMINAL NAME	PIN	I/O	PULL-DOWN	5-V TOLERANT	DESCRIPTION
RSV2	1	—	—	—	Reserved, tied to analog ground
RSV1	2	—	—	—	Reserved, left open
RSV2	3	—	—	—	Reserved, tied to analog ground
RSV1	4	—	—	—	Reserved, left open
RSV2	5	—	—	—	Reserved, tied to analog ground
LRCK	6	I	Yes	No	Audio data word clock input
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
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.

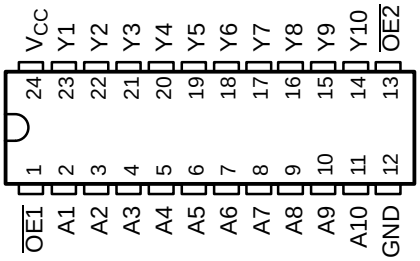
BD82065FVJ-E2 (DIGITAL_NETWORK : IC801)



Block diagram



SN74LVC827APWR (DIGITAL_NETWORK : IC804)

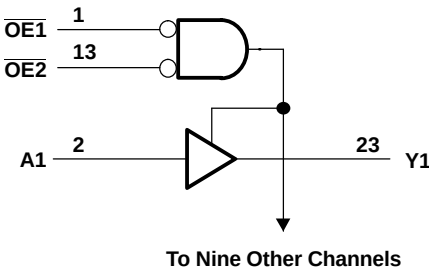


Block diagram

FUNCTION TABLE

INPUTS			OUTPUT
$\overline{OE1}$	$\overline{OE2}$	A	Y
L	L	L	L
L	L	H	H
H	X	X	Z
X	H	X	Z

LOGIC DIAGRAM (POSITIVE LOGIC)



PCM5100PWR (DIGITAL_NETWORK : IC805)

PCM510X (top view)

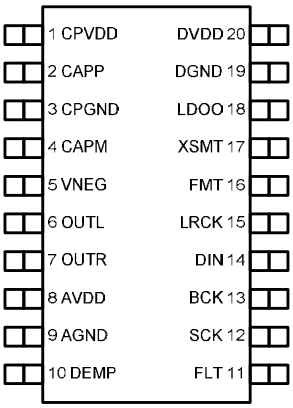
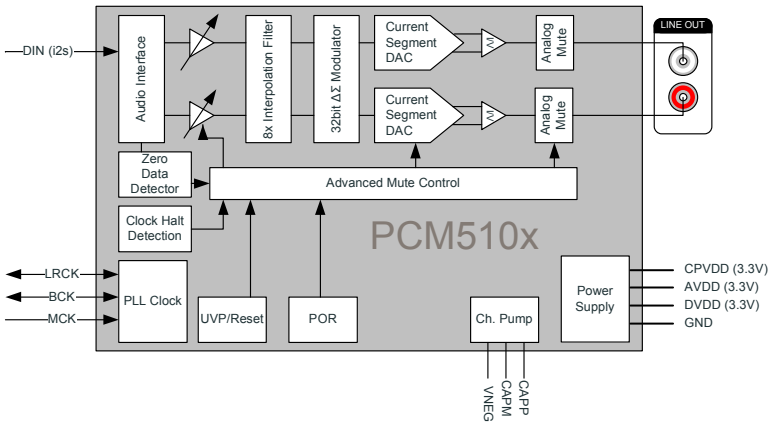


Table 2. TERMINAL FUNCTIONS, PCM510x

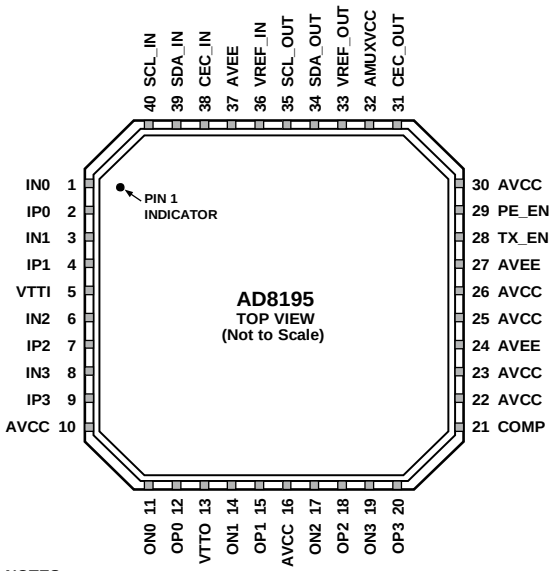
TERMINAL		I/O	DESCRIPTION
NAME	NO.		
CPVDD	1	-	Charge pump power supply, 3.3V
CAPP	2	O	Charge pump flying capacitor terminal for positive rail
CPGND	3	-	Charge pump ground
CAPM	4	O	Charge pump flying capacitor terminal for negative rail
VNEG	5	O	Negative charge pump rail terminal for decoupling, -3.3V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

(1) Failsafe LVCMOS Schmitt trigger input

Block diagram



AD8195 (F-HDMI : IC811)



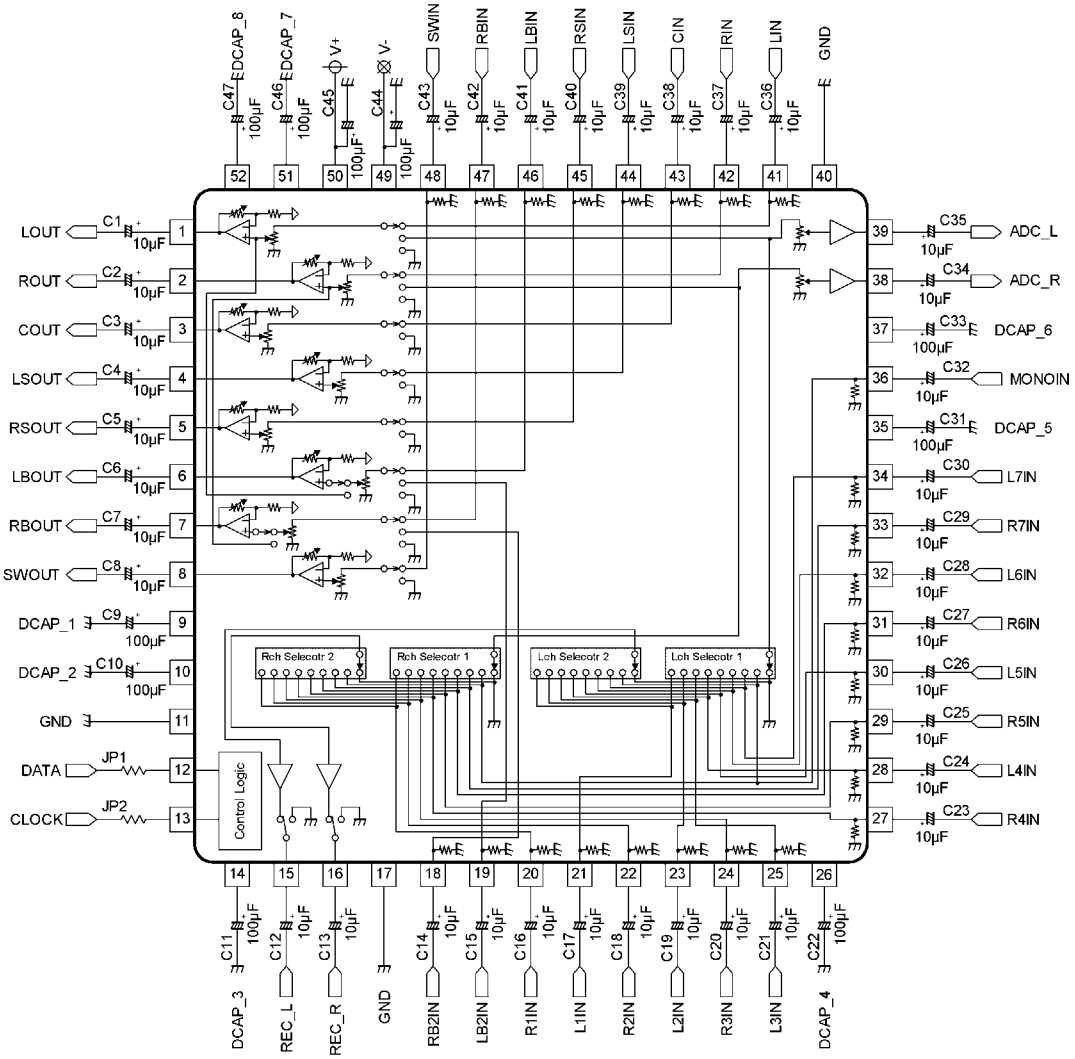
NOTES
1. THE AD8195 LFCSP HAS AN EXPOSED PAD ON THE UNDERSIDE OF THE PACKAGE THAT AIDS IN HEAT DISSIPATION. THE PAD MUST BE ELECTRICALLY CONNECTED TO THE AVEE SUPPLY PLANE IN ORDER TO MEET THERMAL SPECIFICATIONS.

AD8195 Terminal Functions

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.
33	VREF_OUT	Reference	DDC Output Side Pull-Up Reference Voltage.
34	SDA_OUT	LS I/O	DDC Output Side Data Line Input/Output.
35	SCL_OUT	LS I/O	DDC Output Side Clock Line Input/Output.
36	VREF_IN	Reference	DDC Input Side Pull-Up Reference Voltage.
38	CEC_IN	LS I/O	CEC Input Side.
39	SDA_IN	LS I/O	DDC Input Side Data Line.
40	SCL_IN	LS I/O	DDC Input Side Clock Line

[1] HS = high speed, LS = low speed, I = input, and O = output.

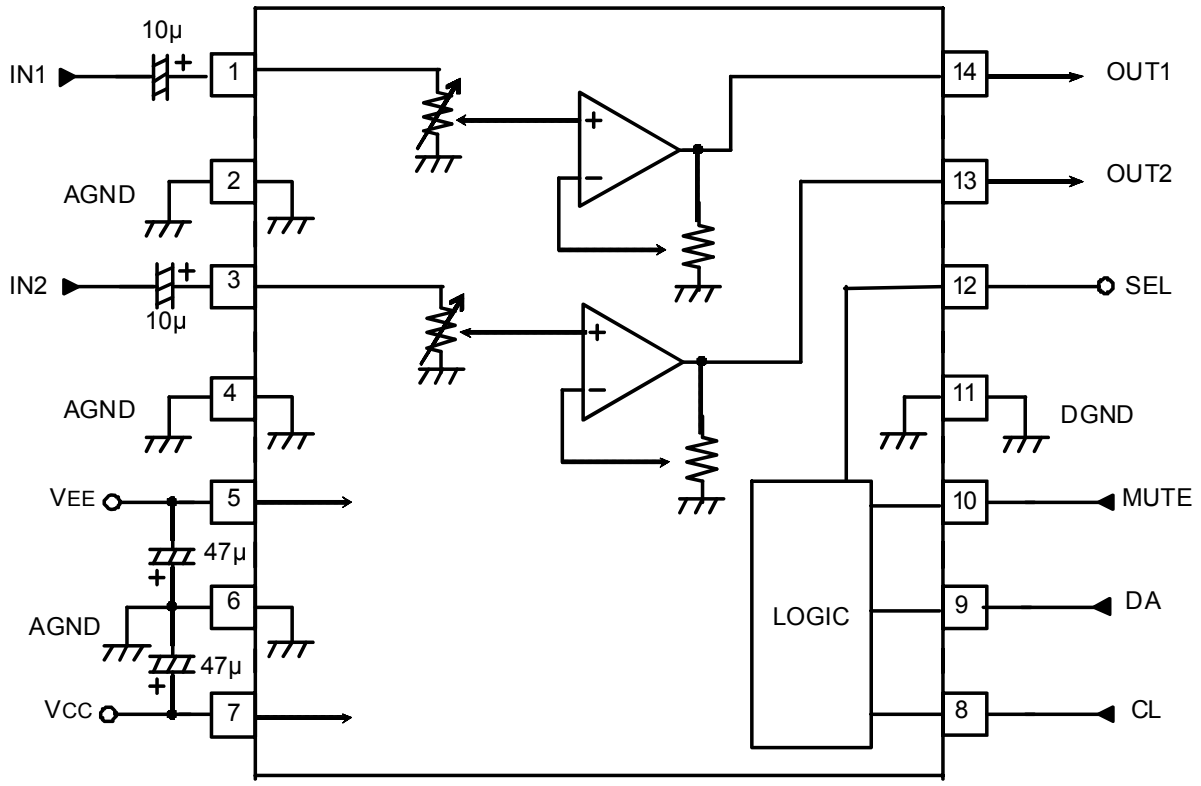
NJU72340AFH3 (DIGITAL_ANALOG : IC821)



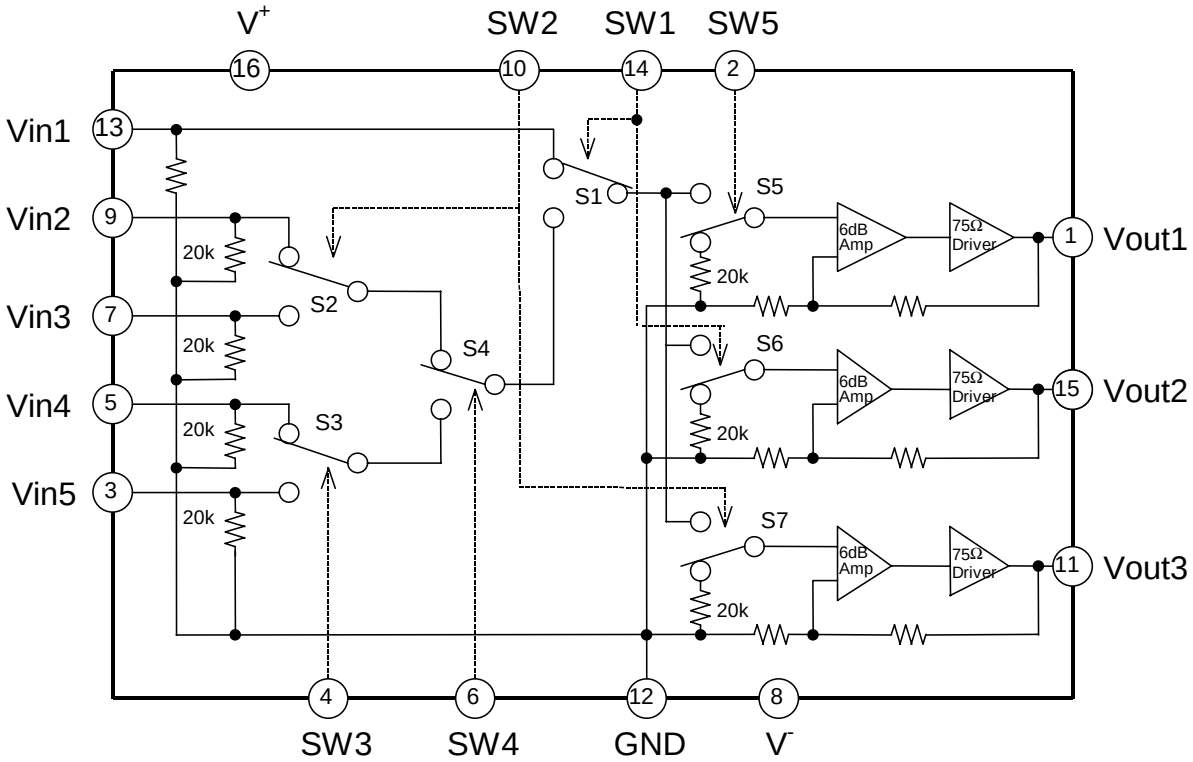
NJU72340A Terminal Functions

Pin No.	SYMBOL	Pin No.	SYMBOL	Pin No.	SYMBOL	Pin No.	SYMBOL
1	LOUT	14	DCAP_3	27	R4IN	40	GND
2	ROUT	15	REC_R	28	L4IN	41	LIN
3	COUT	16	REG_L	29	R5IN	42	RIN
4	LSOUT	17	GND	30	L5IN	43	CIN
5	RSOUT	18	RB2IN	31	R6IN	44	LSIN
6	LBOUT	19	LB2IN	32	L6IN	45	RSIN
7	RBOUT	20	R1IN	33	R7IN	46	LBIN
8	SWOUT	21	L1IN	34	L7IN	47	RBIN
9	DCAP_1	22	R2IN	35	DCAP_5	48	SWIN
10	DCAP_2	23	L2IN	36	MONOIN	49	V^-
11	GND	24	R3IN	37	DCAP_6	50	V^+
12	DATA	25	L3IN	38	ADC_R	51	DCAP_7
13	CLOCK	26	DCAP_4	39	ADC_L	52	DCAP_8

BD3812F (DIGITAL_ANALOG : IC851)



NJM2595MTE1 (DIGITAL_ANALOG : IC881)



TOP268VG (SMPS : IC601)

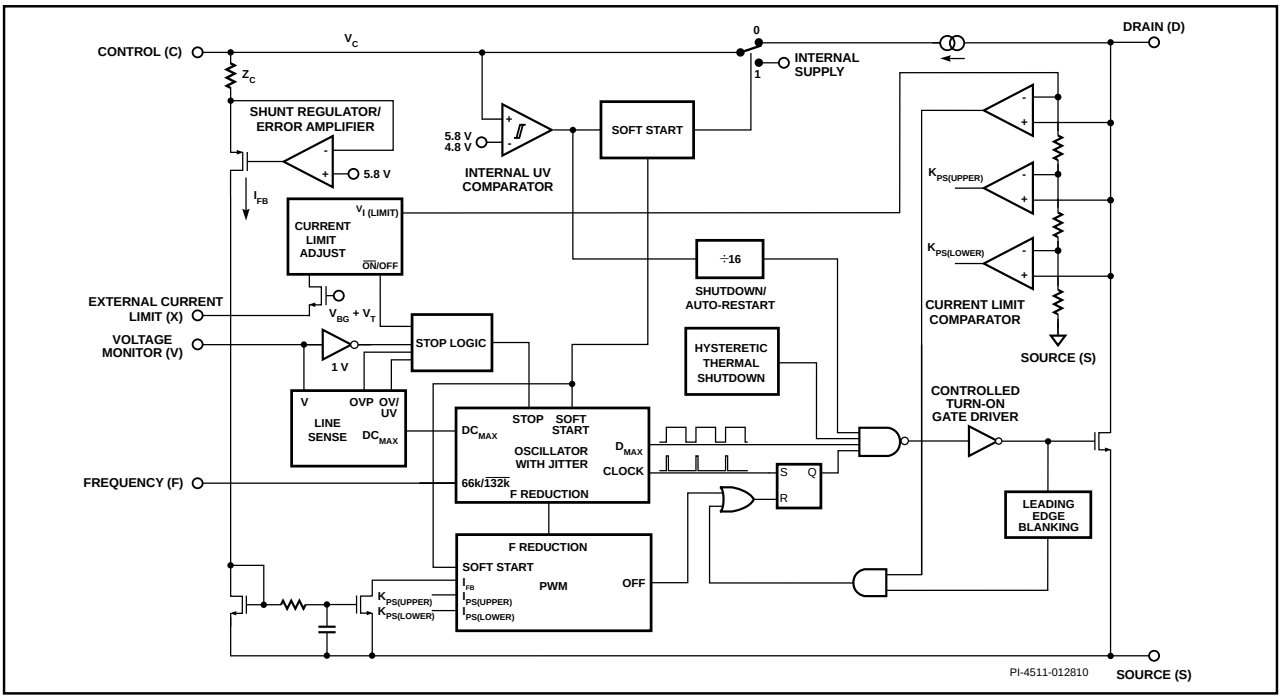


Figure 3. Functional Block Diagram.

Pin Functional Description

DRAIN (D) Pin:
High-voltage power MOSFET DRAIN pin. The internal start-up bias current is drawn from this pin through a switched high-voltage current source. Internal current limit sense point for drain current.

CONTROL (C) Pin:
Error amplifier and feedback current input pin for duty cycle control. Internal shunt regulator connection to provide internal bias current during normal operation. It is also used as the connection point for the supply bypass and auto-restart/ compensation capacitor.

EXTERNAL CURRENT LIMIT (X) Pin:
Input pin for external current limit adjustment remote-ON/OFF and device reset. A connection to SOURCE pin disables all functions on this pin. This pin should not be left floating.

VOLTAGE MONITOR (V) Pin:
Input for OV, UV, line feed-forward with DC_{MAX} reduction, output overvoltage protection (OVP), remote-ON/OFF. A connection to the SOURCE pin disables all functions on this pin. This pin should not be left floating.

FREQUENCY (F) Pin :
Input pin for selecting switching frequency 132 kHz if connected to SOURCE pin and 66 kHz if connected to CONTROL pin. This pin should not be left floating.

SOURCE (S) Pin:
Output MOSFET source connection for high-voltage power return. Primary-side control circuit common and reference point.

NO CONNECTION (NC) Pin:
Internally not connected, floating potential pin.

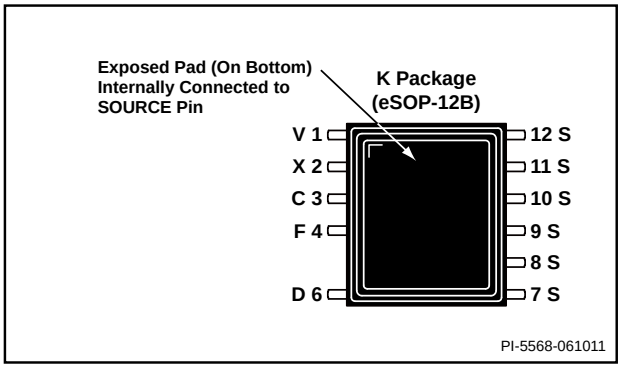


Figure 4. Pin Configuration (Top View).

2. FL DISPLAY

FLD (018BT021GINK) (FRONT : FL101)

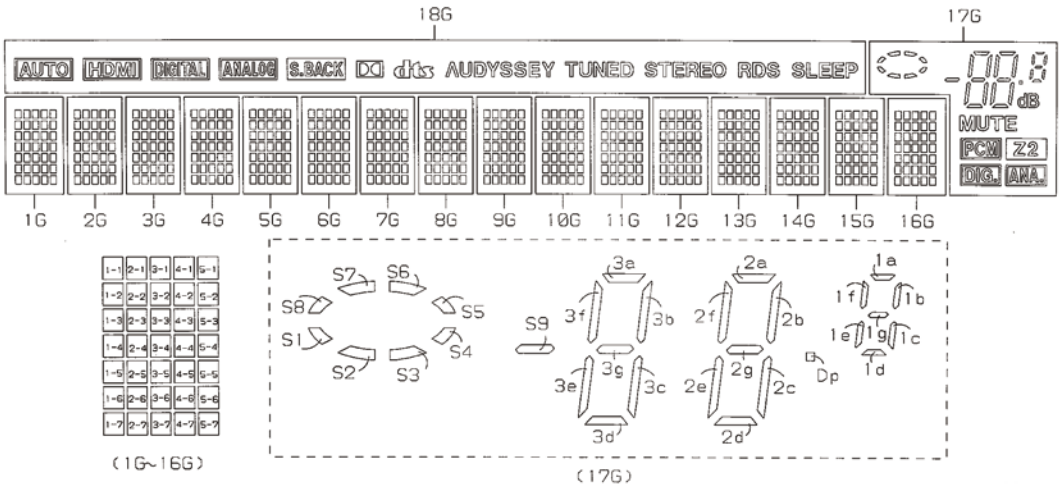
PIN CONNECTION

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

PIN NO.	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	VDD	OSCT	IRES	ICS	CP	DA	TSA	TSB	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	18G	17G	Q18G	Q17G	NP	NP	NP	NP	F1	F1

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

GRID ASSIGNMENT



ANODE CONNECTION

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

FRONT PCB ASS'Y

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

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

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

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

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D1001	00D9630328409	DIODE , RECTIFIER, AXIAL		CVD1N4007ST	1		
	D1002	00D9430182609	DIODE , SWITCHING	E3	CVD1SS133MT	1		
	D1003	90M-HD302360R	DIODE , ZENER ,1/2W, 6.8V		CVDZJ6.8BT	1		
	D1004	nsp	WIRE, COPPER(D0.6)		C3A206	0.02		
	D1005	00D2760762958	DIODE , ZENER ,1/2W, 39V		CVDZJ39BT	1		
	D1008-1011	963209003510S	DIODE , RELIABLE ESD PROTECTION		CVDCDS3C05HDMI1	4		
	D1012	963263100960S	LED , WHITE/RED	E3	CVDPVBWR5A2M	1		
	D1012	943176010090S	L.E.D,(GREEN/RED 5PI)	E2, E1C, JP, S710	CVDBLBJEGJ204L	1		
	D1019,1020	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	2		
	D1401-1403	943202010080S	DIODE , ZENER ,1/2W, 5.1V		CVDZJ5.1BT	3		
	D1404,1405	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	2		
	Q1001	943219006820S	T.R		CVTKTC1027YT	1		
	Q1002	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q1003,1004	943214500020S	T.R,2SC3052		CVT2SC3052	2		
	Q1005	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
	Q1006	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q1007,1008	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	2		
	Q1009	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q1011	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	1		
	Q1012	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	RESISTOR GROUP							
	R1001	nsp	RES, CARBON(1/5W,1.8ohm,J)		CRD20TJ1R8T	1		
	R1004	nsp	RES, CARBON(1/5W,1.8ohm,J)		CRD20TJ1R8T	1		
	R1005,1006	nsp	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	2		
	R1007	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R1008,1009	nsp	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	2		
	R1010	nsp	RES, CHIP(1608/5%/39Kohm)		CRJ10DJ393T	1		
	R1011	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R1012-1015	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	4		
	R1016,1017	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R1018,1019	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R1020	nsp	RES, CHIP(1608/5%/3.3Kohm)		CRJ10DJ332T	1		
	R1021,1022	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	2		
	R1023	nsp	RES, CHIP(1608/5%/47Kohm)		CRJ10DJ473T	1		
	R1025,1026	nsp	RES, CHIP(1608/5%/39Kohm)		CRJ10DJ393T	2		
	R1027	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R1030	nsp	RES, CARBON(1/5W,10ohm,J)		CRD20TJ100T	1		
	R1040	nsp	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
	R1041,1042	nsp	RES, CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	2		
	R1043	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R1053	nsp	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T	1		
	R1057	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R1058,1059	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	2		
	R1060,1061	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R1067	nsp	RES, CARBON(1/5W,10ohm,J)		CRD20TJ100T	1		
	R1071	nsp	RES, CHIP(1608/5%/330ohm)	S710	CRJ10DJ331T	1		
	R1072	nsp	RES, CHIP(1608/5%/220ohm)	S710	CRJ10DJ221T	1		
	R1073	nsp	RES, CHIP(1608/5%/150ohm)	E3, E2, E1C, JP	CRJ10DJ151T	1		
	R1073	nsp	RES, CHIP(1608/5%/180ohm)	S710	CRJ10DJ181T	1		
	R1074	nsp	RES, CHIP(1608/5%/100ohm)	E3, E2, E1C, JP	CRJ10DJ101T	1		
	R1074	nsp	RES, CHIP(1608/5%/150ohm)	S710	CRJ10DJ151T	1		
	R1075	nsp	RES, CHIP(1608/5%/0ohm)	E3, E2, E1C, JP	CRJ10DJ0R0T	1		
	R1075	nsp	RES, CHIP(1608/5%/100ohm)	S710	CRJ10DJ101T	1		
	R1076	nsp	RES, CHIP(1608/5%/330ohm)	S710	CRJ10DJ331T	1		
	R1077	nsp	RES, CHIP(1608/5%/150ohm)	E3, E2, E1C, JP	CRJ10DJ151T	1		
	R1077	nsp	RES, CHIP(1608/5%/220ohm)	S710	CRJ10DJ221T	1		
	R1078	nsp	RES, CHIP(1608/5%/100ohm)	E3, E2, E1C, JP	CRJ10DJ101T	1		
	R1078	nsp	RES, CHIP(1608/5%/180ohm)	S710	CRJ10DJ181T	1		
	R1079	nsp	RES, CHIP(1608/5%/0ohm)	E3, E2, E1C, JP	CRJ10DJ0R0T	1		
	R1079	nsp	RES, CHIP(1608/5%/150ohm)	S710	CRJ10DJ151T	1		
	R1080	nsp	RES, CHIP(1608/5%/0ohm)	E3, E2, E1C, JP	CRJ10DJ0R0T	1		
	R1080	nsp	RES, CHIP(1608/5%/100ohm)	S710	CRJ10DJ101T	1		
	R1081	nsp	RES, CHIP(1608/5%/330ohm)	S710	CRJ10DJ331T	1		
	R1082	nsp	RES, CHIP(1608/5%/180ohm)	E3, E2, E1C, JP	CRJ10DJ181T	1		
	R1082	nsp	RES, CHIP(1608/5%/220ohm)	S710	CRJ10DJ221T	1		
	R1083	nsp	RES, CHIP(1608/5%/150ohm)	E3, E2, E1C, JP	CRJ10DJ151T	1		
	R1083	nsp	RES, CHIP(1608/5%/180ohm)	S710	CRJ10DJ181T	1		
	R1084	nsp	RES, CHIP(1608/5%/100ohm)	E3, E2, E1C, JP	CRJ10DJ101T	1		
	R1084	nsp	RES, CHIP(1608/5%/150ohm)	S710	CRJ10DJ151T	1		
	R1085	nsp	RES, CHIP(1608/5%/0ohm)	E3, E2, E1C, JP	CRJ10DJ0R0T	1		
	R1085	nsp	RES, CHIP(1608/5%/100ohm)	S710	CRJ10DJ101T	1		
	R1401	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R1402-1404	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	3		
	R1405	nsp	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
	R1406	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R1407	nsp	RES, CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R1408	nsp	RES, CHIP(1608/5%/18Kohm)		CRJ10DJ183T	1		
	R1409	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R1410	nsp	RES, CHIP(1608/5%/47Kohm)		CRJ10DJ473T	1		
	R1411	nsp	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
	R1413,1414	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R1415,1416	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	2		
	R1418,1419	nsp	RES, CHIP(1608/5%/390ohm)	E3	CRJ10DJ391T	2		
	R1420	nsp	RES, CHIP(1608/5%/47Kohm)	E3	CRJ10DJ473T	1		
	R1423	nsp	RES, CARBON(1/5W,47Kohm,J)		CRD20TJ473T	1		
	CAPACIITORS GROUP							
	C1002	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C1003	nsp	CAP, ELECT(50V/10uF)-S		CCEA1HKS100T	1		
	C1004	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
	C1005	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101E	1		
	C1006	nsp	CAP, ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C1007	nsp	CAP,METAL-FILM(100V/0.047uF)		CCME2A473JXT	1		
	C1009	nsp	CAP, CHIP(2012, 50V/0.1uF, X7R)_SAMSUNG		CCUC1H104KCS	1		
	C1010	nsp	CAP, ELECT(16V/10uF)-S		CCEA1CKS100T	1		
	C1011	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1013,1014	nsp	CAP, CHIP(1608, 50V/100pF, C0G)_SAMSUNG		CCUS1H101JAS	2		
	C1015	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG		CCUS1H331JAS	1		
	C1016	nsp	CAP, CHIP(1608, 50V/1000pF, X7R)_SAMSUNG		CCUS1H102KCS	1		
	C1017	nsp	CAP,METAL-FILM(100V/0.047uF)		CCME2A473JXT	1		
	C1019	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C1020	nsp	CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG		CCUS1H103KCS	1		
	C1038	nsp	CAP, ELECT(16V/47uF)-S		CCEA1CKS470T	1		
	C1039	nsp	CAP, CHIP(1608, 50V/100pF, C0G)_SAMSUNG		CCUS1H101JAS	1		
	C1050	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1052	nsp	CAP, ELECT(10V/220uF)-S		CCEA1AKS221T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C1053-1055	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	3		
	C1065	nsp	CAP, ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C1066	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1067	nsp	CAP, ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C1068	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1071,1072	nsp	CAP, CHIP(1608, 50V/680pF, C0G)_SAMSUNG		CCUS1H681JAS	2		
	C1073	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1076,1077	nsp	CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG		CCUS1H103KCS	2		
	C1081	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1401	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1402	nsp	CAP, ELECT(50V/1uF)-S		CCEA1HKS1R0T	1		
	C1403	nsp	CAP, CHIP(1608, 50V/100pF, C0G)_SAMSUNG		CCUS1H101JAS	1		
	C1405	nsp	CAP, ELECT(50V/10uF)-S		CCEA1HKS100T	1		
	C1406	nsp	CAP, CHIP(1608, 50V/0.047uF, X7R)_SAMSUNG		CCUS1H473KCS	1		
	C1407	nsp	CAP, ELECT(16V/100uF)-S		CCEA1CKS101T	1		
	C1408	nsp	CAP, CHIP(1608, 50V/82pF, C0G)_SAMSUNG		CCUS1H820JAS	1		
	C1410,1411	nsp	CAP, ELECT(50V/1uF)-S		CCEA1HKS1R0T	2		
	C1414	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1415	nsp	CAP, CHIP(1608, 50V/1000pF, X7R)_SAMSUNG		CCUS1H102KCS	1		
	C1417	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1424	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1425,1426	nsp	CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG		CCUS1H103KCS	2		
	OTHER PARTS GROUP							
	BK101,102	nsp	BRACKET , FIP		CMD1A572-V1	2		
	BN101	nsp	WIRE ASS'Y B'D-B'D IN (9P,2MM,80MM,#28)		CWB1A009080CC	1		
	BN104	nsp	WIRE ASS'Y Locking (YH,5P,2.0MM,330MM,#24)		CWB1C205330HC001	1	*	
	BN12A	nsp	WIRE ASS'Y B'D to B'D(CKM) (5P,2MM,80MM,#26)		CWB1B005080CC	1		
	BN12B1	nsp	WAFER,FFC 1.25mm,ANGLE		CJP27GB286ZN	1		
	BN131	nsp	WIRE ASS'Y Locking (YH) (3P,2MM,50MM,#28)		CWB1A003050HC	1		
	CN102	nsp	WAFER/ANGLE/2.5mm/07P		CJP07GB03ZY	1		
	CN103	nsp	LOCK-WAFER/ANGLE/2MM PITCH/3PIN		CJP03GJ288ZY	1		
	CN104	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/3PIN		CJP03GI288ZY	1		
!	F1001	943652500600S	FUSE(932Series, 250V/200mA)	E3, S710	CBA2J0200TLUBT	1		
!	F1001	943652500550D	FUSE(372 Series/200mA/TR5)	E2, E1C, JP	CBA2D0200A3EYT	1		
	FL101	943172100150S	V.F.D (FUTABA, 18-BT-02GINK)		CFL18BT021GINK	1		
	IC101	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)		CVIAZ4580MTR-E1	1		
	J1056,1057	nsp	WIRE, COPPER(D0.6)	S710	C3A206	2		
	J1059	nsp	WIRE, COPPER(D0.6)	S710	C3A206	1		
	J1061	nsp	WIRE, COPPER(D0.6)	S710	C3A206	1		
	J1064	nsp	WIRE, COPPER(D0.6)	S710	C3A206	1		
	JK101	943643101590S	JACK, USB STRAIGHT(BLACK 1.5A)		CJJ9X010Z	1		
	JK104	90M-YT004500R	JACK, PHONES(6.35mm,SILVER)		CJJ2E026Z	1		
	JK105	943643102930S	JACK, STEREO, 3.5mm MINI, BLACK MOLD		CJJ2D029Z	1		
	L1001	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1003	nsp	FERRITE CHIP BEAD(4516/60R)		CLZ9Z014V	1		
	L1004,1005	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	L1010-1013	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	4		
	L1401-1404	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	4		
	LD101	963262010460S	L.E.D (Infrared light emitting diode)	E3	CVDSIR341ST3FT0	1		
	LUG11	nsp	WIRE ASS'Y		CWE8102100RV	1		
	LUG13	nsp	WIRE ASS'Y		CWE8102180RV	1		
	RC101	943262100140S	SENSOR, REMOTE(37.9KHz)		CRVHM238RT12	1		
	SW101	00D9430004402	SW , TACT		CST1A012ZT	1		
	SW102,103	00D9430004402	SW , TACT	S710	CST1A012ZT	2		
	SW104-106	00D9430004402	SW , TACT		CST1A012ZT	3		
	SW107,108	00D9430004402	SW , TACT	S710	CST1A012ZT	2		
	SW109-111	00D9430004402	SW , TACT		CST1A012ZT	3		
	SW112-114	00D9430004402	SW , TACT	S710	CST1A012ZT	3		
	SW115-118	00D9430004402	SW , TACT		CST1A012ZT	4		
	SW119	00D9430004402	SW , TACT	S710	CST1A012ZT	1		
	VR101	943671010330S	ENCODER(16MM, 24PULSES),W/CLICK		CSR2A055Z	1		
	VR102	943671101000D	ENCODER(16MM, 12PULSES)		CSR2A060Z	1		

FRONT-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.

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

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	IC811	963236101380P	I.C, HDMI BUFFER		CVIAD8195ACPZ	1		
	Q8101	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	1		
	Q8102	943216500040S	T.R,RT1N241C(22K-22K)		CVTRT1N241C	1		
	RESISTOR GROUP							
	R8102	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R8103	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R8104	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R8105	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R8107	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R8108	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R8111	nsp	RES, CHIP(1005/5%/2Kohm)		CRJ06IJ202T	1		
	R8117,8118	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R8120,8121	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R8123	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R8126,8127	nsp	RES, CHIP(1005/5%/2Kohm)		CRJ06IJ202T	2		
	R8128	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	RN811-814	nsp	RES, CHIP(1005/5%/0ohm*2)		CRJ062IJ0R0T	4		
	CAPACIITORS GROUP							
	C8101-8105	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG		CCUI1C104KCS	5		
	C8108-8111	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG		CCUI1C104KCS	4		
	C8112	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG		CCUC0J106KCS	1		
	C8113-8121	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG		CCUI1C104KCS	9		
	C8122	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG		CCUC0J106KCS	1		
	C8127	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG		CCUI1C104KCS	1		
	C8128	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG		CCUC0J106KCS	1		
	C8134	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R) SAMSUNG		CCUI1E103KCS	1		
	OTHER PARTS GROUP							
	BK871	nsp	EARTH , HDMI		CMC1A422	1		
	CN811	nsp	WAFER, FFC(23PIN, 1mm STRAIGHT)		CJP23GA333ZR	1	*	
	JK811	943643102920S	JACK , HDMI(TYPE-A, SMT-19P, WITH FLANGE)		CJJ9H021Z	1		
	L8101,8102	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	2		

DIFF-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.

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

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	Q2101,2102	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	2		
	Q2103	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1		
	Q2104	90M-HT800120R	T.R , BIAS		HVTKTC3114A	7		
	Q2201,2202	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	2		
	Q2203	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1		
	Q2301,2302	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	2		
	Q2303	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1		
	Q2401,2402	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	2		
	Q2403	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1		
	Q2501,2502	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	2		
	Q2503	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1		
	Q2601,2602	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	2		
	Q2603	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1		
	Q2701,2702	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	2		
	Q2703	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSC1845FTA	1		
	RESISTOR GROUP							
	R2101	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R2102	nsp	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R2103	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R2104	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R2105	nsp	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R2106	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R2107	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R2108	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R2109	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R2110	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R2201	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R2202	nsp	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R2203	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R2204	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R2205	nsp	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R2206	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R2207	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R2208	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R2209	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R2210	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R2301	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R2302	nsp	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R2303	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R2304	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R2305	nsp	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R2306	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R2307	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R2308	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R2309	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R2310	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R2401	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R2402	nsp	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R2403	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R2404	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R2405	nsp	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R2406	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R2407	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R2408	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R2409	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R2410	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R2501	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R2502	nsp	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R2503	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R2504	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R2505	nsp	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R2506	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R2507	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R2508	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R2509	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R2510	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R2601	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R2602	nsp	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R2603	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R2604	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R2605	nsp	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R2606	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R2607	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R2608	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R2609	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R2610	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R2701	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R2702	nsp	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R2703	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R2704	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R2705	nsp	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R2706	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R2707	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R2708	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R2709	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R2710	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	CAPACIITORS GROUP							
	C2101	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C2102	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C2103	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C2104	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C2105	nsp	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
	C2106	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C2201	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C2202	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C2203	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C2204	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C2205	nsp	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
	C2206	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C2301	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C2302	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C2303	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C2304	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C2305	nsp	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
	C2306	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C2401	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C2402	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C2403	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C2404	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C2405	nsp	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
	C2406	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C2501	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C2502	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C2503	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C2504	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C2505	nsp	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
	C2506	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C2601	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C2602	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C2603	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C2604	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C2605	nsp	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
	C2606	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C2701	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	1		
	C2702	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C2703	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C2704	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C2705	nsp	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
	C2706	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C2800	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	OTHER PARTS GROUP							
	BK201	nsp	BRACKET , PCB		CMD1A569-V1	1		
	BK202	nsp	BRACKET , PCB		CMD1A387-V1	1		
	BK203	nsp	BRACKET , PCB		CMD1A569-V1	1		
	BK204	nsp	BRACKET , PCB		CMD1A387-V1	1		
	BN51A	nsp	WIRE ASS'Y Locking (YH) (3P,2MM,50MM,#24)		CWB4C003050CC	7		
	CN201	nsp	PINHEADER(15P,1.25mm,STRAIGHT,B-TO-B)		CJP15GI281Z	1		
	CN51A-57	nsp	PINSOCKET(07P,1.25mm,ANGLE,B-TO-B)		CJP07HJ282Z	7		

MAIN PCB ASS'Y

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

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

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

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

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D5106	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5206	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5306	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5406	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5506	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5606	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5706	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5801-5806	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	6		
	D5807	90M-HD302380R	DIODE , ZENER ,1/2W, 3.6V		CVDZJ3.6BT	1		
	D5808-5814	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	7		
	D5815	90M-HD302380R	DIODE , ZENER ,1/2W, 3.6V		CVDZJ3.6BT	1		
	D5816	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5817	90M-HD302360R	DIODE , ZENER ,1/2W, 6.8V		CVDZJ6.8BT	1		
	D5818	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D5819	943209500040S	DIODE , BRIDGE(600V/10A)		CVDD10SB60	1		
	IC501	943232100380S	I.C , DUAL OPAMP(SOP-8P)		CVINJM8080G	1		
	Q5105	943216500510S	TR , POWER (MICA 43 TYPE)		CVT2SD2390P43M	1		
	Q5106	963215500500D	TR , POWER (MICA 43 TYPE)		CVT2SB1560P43M	1		
	Q5107	943212500330S	TR, INA6002AC1, PNP, SC-59, ISAHAYA		CVTINA6002AC1	1		
	Q5108	943214500370S	TR, INA6002AC1, NPN, SC-59, ISAHAYA		CVTINC6002AC1	1		
	Q5205	943216500510S	TR , POWER (MICA 43 TYPE)		CVT2SD2390P43M	1		
	Q5206	963215500500D	TR , POWER (MICA 43 TYPE)		CVT2SB1560P43M	1		
	Q5207	943212500330S	TR, INA6002AC1, PNP, SC-59, ISAHAYA		CVTINA6002AC1	1		
	Q5208	943214500370S	TR, INA6002AC1, NPN, SC-59, ISAHAYA		CVTINC6002AC1	1		
	Q5305	943216500510S	TR , POWER (MICA 43 TYPE)		CVT2SD2390P43M	1		
	Q5306	963215500500D	TR , POWER (MICA 43 TYPE)		CVT2SB1560P43M	1		
	Q5307	943212500330S	TR, INA6002AC1, PNP, SC-59, ISAHAYA		CVTINA6002AC1	1		
	Q5308	943214500370S	TR, INA6002AC1, NPN, SC-59, ISAHAYA		CVTINC6002AC1	1		
	Q5405	943216500510S	TR , POWER (MICA 43 TYPE)		CVT2SD2390P43M	1		
	Q5406	963215500500D	TR , POWER (MICA 43 TYPE)		CVT2SB1560P43M	1		
	Q5407	943212500330S	TR, INA6002AC1, PNP, SC-59, ISAHAYA		CVTINA6002AC1	1		
	Q5408	943214500370S	TR, INA6002AC1, NPN, SC-59, ISAHAYA		CVTINC6002AC1	1		
	Q5505	943216500510S	TR , POWER (MICA 43 TYPE)		CVT2SD2390P43M	1		
	Q5506	90M-HT200440R	T.R , POWER		HVT2SB1560	1		
	Q5507	943212500330S	TR, INA6002AC1, PNP, SC-59, ISAHAYA		CVTINA6002AC1	1		
	Q5508	943214500370S	TR, INA6002AC1, NPN, SC-59, ISAHAYA		CVTINC6002AC1	1		
	Q5605	90M-HT400490R	T.R , POWER		HVT2SD2390	1		
	Q5606	963215500500D	TR , POWER (MICA 43 TYPE)		CVT2SB1560P43M	1		
	Q5607	943212500330S	TR, INA6002AC1, PNP, SC-59, ISAHAYA		CVTINA6002AC1	1		
	Q5608	943214500370S	TR, INA6002AC1, NPN, SC-59, ISAHAYA		CVTINC6002AC1	1		
	Q5705	943216500510S	TR , POWER (MICA 43 TYPE)		CVT2SD2390P43M	1		
	Q5706	963215500500D	TR , POWER (MICA 43 TYPE)		CVT2SB1560P43M	1		
	Q5707	943212500330S	TR, INA6002AC1, PNP, SC-59, ISAHAYA		CVTINA6002AC1	1		
	Q5708	943214500370S	TR, INA6002AC1, NPN, SC-59, ISAHAYA		CVTINC6002AC1	1		
	Q5801-5806	943213500160S	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C	6		
	Q5807	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD		CVTKSA992FTA	1		
	Q5808	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q5809	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
	Q5810,5811	943214500020S	T.R,2SC3052		CVT2SC3052	2		
	Q5812	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
	Q5813	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q5814	943212500330S	TR, INA6002AC1, PNP, SC-59, ISAHAYA		CVTINA6002AC1	1		
	RESISTOR GROUP							
	R5113	nsp	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5114	nsp	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5115,5116	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5117,5118	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5119-5122	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5123	nsp	RES, CARBON(1/5W,820Kohm,J)		CRD20TJ824T	1		
	R5124	nsp	RES, CARBON(1/5W,180Kohm,J)		CRD20TJ184T	1		
	R5125	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5126	252310006506S	PTC THEMISTORS, CHIP(115'C)		CRTPRF18BB471QB5RB	1		
	R5127	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5129	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5130,5131	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5132	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5133	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5213	nsp	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5214	nsp	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5215,5216	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5217,5218	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5219-5222	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5223	nsp	RES, CARBON(1/5W,820Kohm,J)		CRD20TJ824T	1		
	R5224	nsp	RES, CARBON(1/5W,180Kohm,J)		CRD20TJ184T	1		
	R5225	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5226	252310006506S	PTC THEMISTORS, CHIP(115'C)		CRTPRF18BB471QB5RB	1		
	R5227	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5229	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5230,5231	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5232	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5233	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5313	nsp	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5314	nsp	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5315,5316	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5317,5318	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5319-5322	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5323	nsp	RES, CARBON(1/5W,820Kohm,J)		CRD20TJ824T	1		
	R5324	nsp	RES, CARBON(1/5W,180Kohm,J)		CRD20TJ184T	1		
	R5325	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5326	252310006506S	PTC THEMISTORS, CHIP(115'C)		CRTPRF18BB471QB5RB	1		
	R5327	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5329	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5330,5331	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5332	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5333	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5413	nsp	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5414	nsp	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5415,5416	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5417,5418	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5419-5422	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5423	nsp	RES, CARBON(1/5W,820Kohm,J)		CRD20TJ824T	1		
	R5424	nsp	RES, CARBON(1/5W,180Kohm,J)		CRD20TJ184T	1		
	R5425	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5426	252310006506S	PTC THEMISTORS, CHIP(115'C)		CRTPRF18BB471QB5RB	1		
	R5427	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R5429	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5430,5431	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5432	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5433	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5513	nsp	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5514	nsp	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5515,5516	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5517,5518	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5519-5522	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5523	nsp	RES, CARBON(1/5W,820Kohm,J)		CRD20TJ824T	1		
	R5524	nsp	RES, CARBON(1/5W,180Kohm,J)		CRD20TJ184T	1		
	R5525	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5526	252310006506S	PTC THEMISTORS, CHIP(115'C)		CRTPRF18BB471QB5RB	1		
	R5527	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5529	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5530,5531	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5532	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5533	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5613	nsp	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5614	nsp	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5615,5616	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5617,5618	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5619-5622	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5623	nsp	RES, CARBON(1/5W,820Kohm,J)		CRD20TJ824T	1		
	R5624	nsp	RES, CARBON(1/5W,180Kohm,J)		CRD20TJ184T	1		
	R5625	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5626	252310006506S	PTC THEMISTORS, CHIP(115'C)		CRTPRF18BB471QB5RB	1		
	R5627	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5629	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5630,5631	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5632	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5633	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5713	nsp	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5714	nsp	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5715,5716	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5717,5718	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5719-5722	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5723	nsp	RES, CARBON(1/5W,820Kohm,J)		CRD20TJ824T	1		
	R5724	nsp	RES, CARBON(1/5W,180Kohm,J)		CRD20TJ184T	1		
	R5725	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5726	252310006506S	PTC THEMISTORS, CHIP(115'C)		CRTPRF18BB471QB5RB	1		
	R5727	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5729	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5730,5731	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5732	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5733	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5801,5802	nsp	RES, M-OXIDE FILM(2W/470ohm)		CRG2SANJ471RT	2		
	R5803	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5804	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R5805	nsp	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5806	nsp	RES, CARBON(1/5W,12Kohm,J)		CRD20TJ123T	1		
	R5807,5808	nsp	RES, CARBON(1/5W,2.2Kohm,J)		CRD20TJ222T	2		
	R5809	nsp	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R5810	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R5811	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R5812-5818	nsp	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	7		
	R5819	nsp	RES, M-OXIDE FILM(1W/100ohm)		CRG1SANJ101RT	1		
	R5820	nsp	RES, M-OXIDE FILM(1W/33ohm)		CRG1SANJ330RT	1		
	R5821	nsp	RES, M-OXIDE FILM(1W/2.2Kohm)		CRG1SANJ222RT	1		
	R5823,5824	nsp	RES, M-OXIDE FILM(1W/2.2Kohm)		CRG1SANJ222RT	2		
	R5827	943129501040S	RES , CEMENT (5W, 0.01 OHM, 5% SMALL SIZE)		CRF5EJR01HS	1	*	
	R5830	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R5831	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R5832	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R5833	nsp	RES, CHIP(1608/5%/22Kohm)		CRJ10DJ223T	1		
	R5834	nsp	RES, CHIP(1608/5%/3.3Kohm)		CRJ10DJ332T	1		
	R5835	nsp	RES, CHIP(1608/5%/330Kohm)		CRJ10DJ334T	1		
	R5836	nsp	RES, CHIP(1608/5%/33Kohm)		CRJ10DJ333T	1		
	R5837	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R5838	nsp	RES, CHIP(1608/5%/22Kohm)		CRJ10DJ223T	1		
	R5839,5840	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R5841	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5842	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R5843-5845	nsp	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	3		
	R5846	nsp	RES, CARBON(1/5W,2.2Kohm,J)		CRD20TJ222T	1		
	CAPACIITORS GROUP							
	C5107	nsp	CAP, ELECT(50V/47uF)	E3, E1C, JP, S710	CCEA1HH470T	1		
	C5107	nsp	CAP, ELECT(16V/220uF)	E2	CCEA1CH221T	1		
	C5108	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101T	1		
	C5109	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5110	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5111	nsp	CAP, MYLAR(50V/0.018uF/J)		HCQI1H183JZT	1		
	C5113	nsp	CAP, MYLAR(50V/1500pF/J)		HCQI1H152JZT	1		
	C5120	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5207	nsp	CAP, ELECT(50V/47uF)	E3, E1C, JP, S710	CCEA1HH470T	1		
	C5207	nsp	CAP, ELECT(16V/220uF)	E2	CCEA1CH221T	1		
	C5208	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101T	1		
	C5209	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5211	nsp	CAP, MYLAR(50V/0.018uF/J)		HCQI1H183JZT	1		
	C5213	nsp	CAP, MYLAR(50V/1500pF/J)		HCQI1H152JZT	1		
	C5307	nsp	CAP, ELECT(50V/47uF)	E3, E1C, JP, S710	CCEA1HH470T	1		
	C5307	nsp	CAP, ELECT(16V/220uF)	E2	CCEA1CH221T	1		
	C5308	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101T	1		
	C5309	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5310	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5311	nsp	CAP, MYLAR(50V/0.018uF/J)		HCQI1H183JZT	1		
	C5313	nsp	CAP, MYLAR(50V/1500pF/J)		HCQI1H152JZT	1		
	C5407	nsp	CAP, ELECT(50V/47uF)	E3, E1C, JP, S710	CCEA1HH470T	1		
	C5407	nsp	CAP, ELECT(16V/220uF)	E2	CCEA1CH221T	1		
	C5408	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101T	1		
	C5409	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5410	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5411	nsp	CAP, MYLAR(50V/0.018uF/J)		HCQI1H183JZT	1		
	C5413	nsp	CAP, MYLAR(50V/1500pF/J)		HCQI1H152JZT	1		
	C5507	nsp	CAP, ELECT(50V/47uF)	E3, E1C, JP, S710	CCEA1HH470T	1		
	C5507	nsp	CAP, ELECT(16V/220uF)	E2	CCEA1CH221T	1		
	C5508	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101T	1		
	C5509	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5510	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5511	nsp	CAP, MYLAR(50V/0.018uF/J)		HCQI1H183JZT	1		
	C5513	nsp	CAP, MYLAR(50V/1500pF/J)		HCQI1H152JZT	1		
	C5607	nsp	CAP, ELECT(50V/47uF)	E3, E1C, JP, S710	CCEA1HH470T	1		
	C5607	nsp	CAP, ELECT(16V/220uF)	E2	CCEA1CH221T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C5608	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101T	1		
	C5609	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5610	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5611	nsp	CAP, MYLAR(50V/0.018uF/J)		HCQI1H183JZT	1		
	C5613	nsp	CAP, MYLAR(50V/1500pF/J)		HCQI1H152JZT	1		
	C5707	nsp	CAP, ELECT(50V/47uF)	E3, E1C, JP, S710	CCEA1HH470T	1		
	C5707	nsp	CAP, ELECT(16V/220uF)	E2	CCEA1CH221T	1		
	C5708	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101T	1		
	C5709	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5710	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5711	nsp	CAP, MYLAR(50V/0.018uF/J)		HCQI1H183JZT	1		
	C5713	nsp	CAP, MYLAR(50V/1500pF/J)		HCQI1H152JZT	1		
	C5801	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5802	nsp	CAP, ELECT(6.3V/470uF)		CCEA0JH471T	1		
	C5803	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5804	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1		
	C5805	nsp	CAP, ELECT(16V/47uF)		CCEA1CH470T	1		
	C5806	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C5807	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C5808	943134010480S	CAP, ELECT(100V/100uF)		CCEA2AH101E	1		
	C5809	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C5810,5811	943134503680S	CAP, ELECT(69V/10000uF),85'C, 35 x 45		CCET69VLKS103N	2	*	
	C5812,5813	90M-OF100490R	CAP, METAL PE FILM(250V/0.1uF)		KCME2E104JP04T	2		
	C5816	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5817,5818	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	2		
	C5819	nsp	CAP, ELECT(16V/100uF)		CCEA1CH101T	1		
	C5820	nsp	CAP, ELECT(100V/1uF),85'C Black		CCEA2AH1R0T	1		
	C5821	nsp	CAP, CHIP(1608, 50V/100pF, C0G)_SAMSUNG		CCUS1H101JAS	1		
	C5823	nsp	CAP, CHIP(1608, 50V/10pF, C0G)_SAMSUNG		CCUS1H100JAS	1		
	C5825,5826	nsp	CAP, ELECT(100V/1uF),85'C Black		CCEA2AH1R0T	2		
	C5827	nsp	CAP, MYLAR(50V/0.01uF/J)		HCQI1H103JZT	1		
	OTHER PARTS GROUP							
	BK505	nsp	BRACKET , PCB		CMD1A569-V1	1		
	BN501	nsp	WIRE ASS'Y Locking (YH) (9P,2MM,150MM,#26)		CWB1B009150HC	1		
	BN502	nsp	WIRE ASS'Y Locking (YH) (8P,2MM,150MM,#26)		CWB1B008150HC	1		
	BN503	nsp	WIRE ASS'Y Locking (YH) (3P,2MM,200MM,#26)		CWB4B003200HC	1		
	CN502	nsp	WAFER , 7P(DIP, 3.96PITCH)		CJP07GA90ZY	1		
	CN508	nsp	PIN HEADER (09P,1.25mm,STRAIGHT,B-TO-B)		CJP09GI281Z	1		
	CN510	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN51B	nsp	PINHEADER(07P,1.25mm,STRAIGHT,B-TO-B)		CJP07GI281Z	1		
	CN520	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN52B	nsp	PINHEADER(07P,1.25mm,STRAIGHT,B-TO-B)		CJP07GI281Z	1		
	CN530	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN53B	nsp	PINHEADER(07P,1.25mm,STRAIGHT,B-TO-B)		CJP07GI281Z	1		
	CN540	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN54B	nsp	PINHEADER(07P,1.25mm,STRAIGHT,B-TO-B)		CJP07GI281Z	1		
	CN550	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN55B	nsp	PINHEADER(07P,1.25mm,STRAIGHT,B-TO-B)		CJP07GI281Z	1		
	CN560	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN56B	nsp	PINHEADER(07P,1.25mm,STRAIGHT,B-TO-B)		CJP07GI281Z	1		
	CN570	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN57B	nsp	PINHEADER(07P,1.25mm,STRAIGHT,B-TO-B)		CJP07GI281Z	1		
	ET502	nsp	PLATE , EARTH(TRONIC ELECTRONICS)		CJT1A026	1		
	JK501-507	943643102420S	2P, SCREW SPK(R/B)		CJJ5N023Z	7		
	L5101	943115100310S	COIL , SPEAKER (0.5UH)		CLEY0R5KAD	1		
	L5201	943115100310S	COIL , SPEAKER (0.5UH)		CLEY0R5KAD	1		
	L5301	943115100310S	COIL , SPEAKER (0.5UH)		CLEY0R5KAD	1		
	L5401	943115100310S	COIL , SPEAKER (0.5UH)		CLEY0R5KAD	1		
	L5501	943115100310S	COIL , SPEAKER (0.5UH)		CLEY0R5KAD	1		
	L5601	943115100310S	COIL , SPEAKER (0.5UH)		CLEY0R5KAD	1		
	L5701	943115100310S	COIL , SPEAKER (0.5UH)		CLEY0R5KAD	1		
	RY581	943682000810S	RELAY,BC3-12H,DC12V,2C2P		CSL4A016ZU	1		
	RY582-585	943682100270S	RELAY,981-2A-12DS,DC12V,2C1P		CSL3A022ZU	4		
	RY586	943682100520S	RELAY, 942H-2C-12DS, DC12V, 2C2P		CSL4A022ZU	1		
	TU500	943183100510S	TUNER , FM(SCREW : F TYPE), AM , SI4730-D60	E3, S710	CNVYST990-A9U1	1		
	TU500	943183100520S	TUNER , RDS , FM(PAL TYPE) , AM , SI4731-D60	E2	CNVYST990-D8E1	1		
	TU500	943183100500S	TUNER , FM(PAL TYPE) , AM , SI4730-D60	E1C, JP	CNVYST990-A2J1	1		
	VR510	963161012400S	RES , SEMI FIXED (1K, B CURVE)		CVN1RA102B03T	1		
	VR520	963161012400S	RES , SEMI FIXED (1K, B CURVE)		CVN1RA102B03T	1		
	VR530	963161012400S	RES , SEMI FIXED (1K, B CURVE)		CVN1RA102B03T	1		
	VR540	963161012400S	RES , SEMI FIXED (1K, B CURVE)		CVN1RA102B03T	1		
	VR550	963161012400S	RES , SEMI FIXED (1K, B CURVE)		CVN1RA102B03T	1		
	VR560	963161012400S	RES , SEMI FIXED (1K, B CURVE)		CVN1RA102B03T	1		
	VR570	963161012400S	RES , SEMI FIXED (1K, B CURVE)		CVN1RA102B03T	1		

POWER PCB ASS'Y

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

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

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

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

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D3001-3004	00D9630328409	DIODE , RECTIFIER, AXIAL		CVD1N4007ST	4		
	D3103,3104	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	2		
	D3200	943209001080S	DIODE , CHIP , SWITCHING	E3	CVD1SS355T	1		
	D6001-6008	00D9630328409	DIODE , RECTIFIER, AXIAL		CVD1N4007ST	8		
	D6009	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D6012	00D9630328409	DIODE , RECTIFIER, AXIAL		CVD1N4007ST	1		
	D6013	943204500310S	DIODE , Schottky Battier (TO220FN)		CVDRBQ30T65A	1		
	IC301	943232100370S	I.C,REGULATOR(+12V,TO220)		CVIKIA7812BPI	1		
	IC302	00D9430183909	I.C , REGULATOR		HVIKIA7912PI	1		
	IC305	943231010390S	I.C,REGULATOR(+5V,T0220IS)		CVIKIA7805BPI	1		
	IC601	943231102160S	I.C , OFF-LINE POWER SWITCH		CVITOP268VG	1		
!	IC602	963239010480S	I.C , PHOTOCOUPLER		CVIPC123Y22FZ0F	1		
	IC603	212050010508S	I.C,SHUNT REGULATOR(TO-92)		CVIKIA2431AP	1		
	IC604	943239100730S	I.C , SYSTEM RESET(4.8V , SOT-25A)		CVIPST8448NR_A	1		
	Q3001	943215500020S	T.R,RT1P141C(10K-10K)	E3	CVTRT1P141C	1		
	Q3002	943214500020S	T.R,2SC3052	E3	CVT2SC3052	1		
	Q6002	943229500110S	F.E.T , INK0010AC1 (N-CH, SC-59, MOSFET, ISAHAYA)		CVTINK0010AC1	1		
	Q6003	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	ZD601	943202008160S	DIODE , ZENER ,1/2W, 12V		CVDZJ12BT	1		
	ZD608-610	00D2760762958	DIODE , ZENER ,1/2W, 39V	E3, JP, S710	CVDZJ39BT	3		
	ZD611-617	963202010440S	DIODE , ZENER ,1/2W, 22V		CVDZJ22BT	7		
	ZD618	90M-HD302350R	DIODE , ZENER ,1/2W, 27V		CVDZJ27BT	1		
	ZD619	90M-HD302360R	DIODE , ZENER ,1/2W, 6.8V		CVDZJ6.8BT	1		
	ZD620	00D2760762958	DIODE , ZENER ,1/2W, 39V		CVDZJ39BT	1		
	ZD621	00D9430196306	DIODE , ZENER ,1/2W, 7.5V	E3, S710	CVDZJ7.5BT	1		
	ZD621	943202000940S	DIODE , ZENER ,1/2W, 16V	E2, E1C	CVDZJ16BT	1		
	ZD621	00D9600095607	DIODE , ZENER ,1/2W, 5.6V	JP	CVDZJ5.6BT	1		
	RESISTOR GROUP							
	R3001	nsp	RES, CHIP(1608/5%/1Kohm)	E3	CRJ10DJ102T	1		
	R3002	nsp	RES, CHIP(1608/5%/3.3Kohm)	E3	CRJ10DJ332T	1		
	R3003	nsp	RES, CHIP(1608/5%/2.2Kohm)	E3	CRJ10DJ222T	1		
	R3004	nsp	RES, CHIP(1608/5%/100Kohm)	E3	CRJ10DJ104T	1		
	R6004	nsp	RES, CARBON(1/5W,330Kohm,J)		CRD20TJ334T	1		
	R6006	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R6008,6009	nsp	RES, CARBON(1/5W,2.2Mohm,J)	E3, JP, S710	CRD20TJ225T	2		
	R6010	nsp	RES, CARBON(1/5W,1Mohm,J)	E3, JP, S710	CRD20TJ105T	1		
	R6011	nsp	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T	1		
	R6012	nsp	RES, CHIP(1608/5%/270Kohm)	E3, JP, S710	CRJ10DJ274T	1		
	R6012	nsp	RES, CHIP(1608/5%/56Kohm)	E2, E1C	CRJ10DJ563T	1		
	R6013	nsp	RES, CHIP(1608/5%/15Kohm)	E3, JP, S710	CRJ10DJ153T	1		
	R6013	nsp	RES, CHIP(1608/5%/18Kohm)	E2, E1C	CRJ10DJ183T	1		
	R6014	nsp	RES, CHIP(1608/5%/2Kohm)	E3, JP, S710	CRJ10DJ202T	1		
	R6014	nsp	RES, CHIP(1608/5%/1Kohm)	E2, E1C	CRJ10DJ102T	1		
	R6015	nsp	RES, CARBON(1/5W,6.8ohm,J)		CRD20TJ6R8T	1		
	R6016	nsp	RES, CARBON(1/5W,56ohm,J)		CRD20TJ560T	1		
	R6017	nsp	RES, CARBON(1/5W,3.3Kohm,J)		CRD20TJ332T	1		
	R6018	nsp	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R6019	nsp	RES, CHIP(1608/1%/22Kohm)		CRJ10DF2202T	1		
	R6022	nsp	RES, CHIP(1608/1%/6.8Kohm)		CRJ10DF6801T	1		
	R6024	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R6025	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R6027-6030	nsp	RES, CHIP(2012/5%/8.2Mohm)		CRJ18AJ825T	4		
	R6031-6033	nsp	RES, CHIP(2012/5%/1Mohm)		CRJ18AJ105T	3		
	CAPACIITORS GROUP							
	C3005	00MOF15104040	CAP,METAL-FILM(100V/0.1uF)	E3, JP, S710	CCME2A104JXT	1		
	C3005	nsp	CAP, MYLAR(50V/0.1uF/J)	E2, E1C	HCQI1H104JZT	1		
	C3006	943134010620S	CAP, ELECT(25V/4700uF)		CCEA1EH472E	1		
	C3007	00MOA33802520	CAP, ELECT(25V/3300uF)		CCEA1EH332E	1		
	C3008	943134502350S	CAP, ELECT(50V/470uF)		CCEA1HH471E	1		
	C3012,3013	943134502350S	CAP, ELECT(50V/470uF)		CCEA1HH471E	2		
	C3025	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C3100	nsp	CAP, CHIP(1608, 50V/1000pF, X7R)_SAMSUNG	E3	CCUS1H102KCS	1		
!	C6001-6003	963132011940S	CAP, CERAMIC(X1/Y2,0.01uF,AC250V)		CCKDKY103MFM	3		
	C6004	943134501590S	CAP, ELECT(200V/100uF),105'C	E3	CCET200NHA101ES	1		
	C6007	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG	E2, E1C	CCUS1H104KCS	1		
	C6008	00D9430175108	CAP, ELECT(50V/10uF),105'C		CCEA1HNXA100TS	1		
	C6009	nsp	CAP, CHIP(1608, 50V/0.22uF, X5R)_SAMSUNG		CCUS1H224KCS	1		
	C6011	963132010120S	CAP, CERAMIC(DC1KV/1000pF)		CCKDDEH102KCM	1		
	C6012	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6013	00MOA47602520	CAP, ELECT(25V/47uF),105'C		CCEA1ENXA470TS	1		
	C6014	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6015	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	1		
	C6018,6019	963134010220S	CAP, ELECT(6.3V/5600uF)		CCEA0JNXA562ES	2		
	C6020	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
!	C6023	963132011930S	CAP, CERAMIC(X1/Y1,2200P,AC250V)		CCKDKX222MEM	1		
	C6024	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6026	943139500110S	CAP, CHIP(3216, 1KV/47pF, C0G)_SAMSUNG		CCUP3A470JAS	1		
	C6029	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C6030	nsp	CAP, CHIP(1608, 50V/0.015uF, X7R)_SAMSUNG		CCUS1H153KCS	1		
	OTHER PARTS GROUP							
	BK301	nsp	BRACKET , PCB		CMD1A569-V1	1		
	BK302	nsp	BRACKET , PCB	E3	CMD1A569-V1	1		
	BK303	nsp	BRACKET , PCB		CMD1A387-V1	1		
	BK601,602	nsp	BRACKET , PCB M3		CMD1A834	2		
	BK603	nsp	BRACKET , PCB		CMD1A629	1		
	BN301	nsp	WIRE ASS'Y Locking (YH,5P,2.0MM,80MM,#24)		CWB1C005080HC	1	*	
	BN302	nsp	WIRE ASS'Y Locking (YH) (3P,2MM,50MM,#28)		CWB1A003050HC	1		
	BN601	nsp	WIRE ASS'Y (JST,6P,2.5MM,150MM,#22)		CWB1D006150AGD	1	*	
	CN302	nsp	WAFER/ANGLE/2.5mm/05P		CJP05GB03ZY	1		
	CN601	nsp	WAFER, 2P, 3.96mm		CJP02KA060ZY	1		
	CN602	nsp	WAFER, 2P, 7.92mm		CJP02GA89ZY	1		
!	CX601	943139500020S	CAP , POLYPROPYLENE FILM		HCQF2E104KZE	1		
!	CY601,602	963134011730S	CAP, CERAMIC(X1/Y1,470P,AC250V)		CCKDKX471KBM	2		
	F3001,3002	nsp	HOLDER , FUSE		KJCFC5S	2		
!	F3001	00D2061096006	FUSE(218Series, 250V/1.25A)		KBA2C1250TLEY	1		
!	F3002	00D2061096006	FUSE(218Series, 250V/1.25A)		KBA2C1250TLEY	1		
	F6001,6002	nsp	HOLDER , FUSE		KJCFC5S	2		
!	F6001	963652010510S	FUSE(S506 Series, 250V,2A)	E3, JP, S710	CBA2C2000TLEC	1		
!	F6001	963652010500S	FUSE(S506 Series, 250V,1.6A)	E2, E1C	CBA2C1600TLEC	1		
!	F6002	90M-FS001430R	FUSE(218Series, 250V/6.3A)	E3, JP, S710	KBA2C6300TLEY	1		
!	F6002	90M-FS001420R	FUSE(218Series, 250V/3.15A)	E2, E1C	KBA2C3150TLEY	1		
	JK301	90M-YT004860R	JACK, STEREO (BLK MOLD)	E3	CJJ2D008Z	1		
	L6001	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
!	LF602	963111010230S	LINE FILTER, 27mH	E3, JP, S710	CLZ9Z126Z	1		
!	LF602	943111100410S	LINE FILTER, 50mH	E2, E1C	CLZ9Z133Z	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
!	RY601	963682010370S	RELAY,HL31-1AT-5H,DC5V,1C1P		CSL1C006ZE	1		
	T6001	943102100510S	TRANS, SWITCHING		VLT9Z119ZE	1		

DIGITAL PCB ASS'Y

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

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

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

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

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D7131	963209003510S	DIODE , RELIABLE ESD PROTECTION		CVDCDS3C05HDMI1	1		
	D7401	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	1		
	D7402	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	1		
	D7403,7404	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	2		
	D7502	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	1		
	D7702-7705	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	4		
	D8051	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	1		
	D8201,8202	00D9430196306	DIODE , ZENER ,1/2W, 7.5V		CVDZJ7.5BT	2		
	D8203,8204	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	2		
	D8205	943202500720S	DIODE , ZENER(3.6V/0.5W, SOD-123)		CVDMM1Z3V6H	1		
	D8206	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	1		
	D8501,8502	943202500820S	DIODE , ZENER(6.8V/0.5W, SOD-123)	E3	CVDMM1Z6V8H	2		
	D8801,8802	943202500730S	DIODE , ZENER(5.1V/0.5W, SOD-123)		CVDMM1Z5V1H	2		
	IC701	943236101940S	I.C , HDMI 2.0 Transceiver (HQFP-144P)		CVIMN864788A	1	*	
	IC721	23681050460AS	I.C , HDMI 2.0 Transceiver (HQFP-144P)		CVIMN864788	1		
	IC731	943236012460S	I.C , HDMI Transceiver (LQFP-144P)		CVIADV7623BSTZ	1		
	IC732	943248103380S	I.C , OSD Serial Flash (AVRS710WBKE3/X1200WBKE3)	E3, S710	CVIANAM2107AV	1	*	
	IC732	943248103350S	I.C , OSD Serial Flash (AVRX1200WBKE1C)	E1C	CVIANAM2110AV	1	*	
	IC732	943248103370S	I.C , OSD Serial Flash (AVRX1200WK)	JP	CVIANAM2109AV	1	*	
	└IC732	-	I.C , SERIAL FLASH(32M)	E3, E1C, JP, S710	CVIMX25L3206EM2I-12G	1		
	IC732	943248103360S	I.C , OSD Serial Flash (AVRX1200WBKE2)	E2	CVIANAM2108AV	1	*	
	└IC732	-	I.C , SERIAL FLASH(64M)	E2	CVIMX25L6406EM2I-12G	1		
	IC733	943239101510S	I.C , MUX/DEMUX (TSSOP-16P)		CVISN74CBT3251PWR	1		
	IC741-745	943239101070S	I.C , DC-DC CONVERTER (3A, QFN T&R-24P)		CVIEN5339QI	5		
	IC747	943239101070S	I.C , DC-DC CONVERTER (3A, QFN T&R-24P)		CVIEN5339QI	1		
	IC749	943239010400S	I.C, REGULATOR(3.3V/TO-252)		CVINJM2845DL133	1		
	IC751	943243103020S	IC, R5F56108VNFP (MAIN CPU) S710W/X1200WE3		CVIANAM2101AV	1	*	
	IC751	943243103030S	IC, R5F56108VNFP (MAIN CPU) E2		CVIANAM2102AV	1	*	
	IC751	943243103040S	IC, R5F56108VNFP (MAIN CPU) E1C		CVIANAM2104AV	1	*	
	IC751	943243103050S	IC, R5F56108VNFP (MAIN CPU) JP		CVIANAM2103AV	1	*	
	└IC751	-	I.C ,CPU(2M/PLQP0144KA-A)		CVIR5F56108VNFP	1		
	IC752	943239101500S	I.C , EEPROM(128KBIT,SOP-8P)		CVIR1EX24128BSAS0I	1		
	IC753	943239101490S	I.C , 8-STAGE SHIFT REGISTER(TSSOP-16)		CVIMC14094BDTR2G	1		
	IC761	963239002150S	I.C , OCTAL BUFFER/DRIVER		CVISN74LVC244APWR	1		
	IC771	00D2623077900	I.C, HEX INVERTER	E3, S710	HVITC74VHCU04FT	1		
	IC772	943236101350D	I.C , DIR/DIT(WITH ADC,LQFP-48P)		CVIPCM9211PTR	1		
	IC773	943248103340S	I.C , PLD(AVRS710W/X1200W ALL)		CVIANAM2106AV	1	*	
	└IC773	-	I.C , CPLD (TQFP-100P)		CVI5M80ZT100C5N	1		
	IC781	963245100680S	I.C,AUDIODSP(QUAD-CORE,LQFP-144P)		CVICS49844A-CQZ	1	*	
	IC782	963248103280S	I.C, DSP Serial Flash(AVRS710W/X1200W ALL)		CVIANAM2105AV	1	*	
	└IC782	-	I.C , SERIAL FLASH(64M)		CVIMX25L6406EM2I-12G	1		
	IC783	963239002150S	I.C , OCTAL BUFFER/DRIVER		CVISN74LVC244APWR	1		
	IC784	943246101180S	I.C , SDRAM 64M(TSOPII-54P)		CVIM12L64164A-5TG2Y	1	*	
	IC791	943239101080S	I.C , DAC (8CH , HTSSOP-48)		CVIPCM1690DCAR	1		
	IC792-795	943232100380S	I.C , DUAL OPAMP(SOP-8P)		CVINJM8080G	4		
	IC801	943239101090S	I.C , High side switch (TSSOP-B8)		CVIBD82065FVJ-E2	1		
	IC802	23671011050AS	I.C , IPOD AUTHENTICATION FROM D&M		CVI23671011050AS_DM	1		
	IC803	24681009260AS	I.C , SERIAL FLASH(256M,SOP-16)		CVIMX25L25635FMI-10G	1		
	IC804	943239101520S	I.C,0-BIT BUFFER/DRIVER TSSOP24 TEXAS INSTRUMENTS		CVISN74LVC827APWR	1		
	IC805	943239100690S	I.C , 2CH DAC(32BIT,384KHZ,TSSOP-20P)		CVIPCM5100PWR	1		
	IC806	943231102150S	IC, regulator(3.3V , SSOP5)		CVIBU33TD3WG	1		
	IC821	943235100520S	I.C , INPUT WITH 8CH VOLUME(52P LQFP)		CVINJU72340AFH3	1		
	IC851	90M-HC109850R	I.C , VIDEO 2CH	E3	CVIBD3812F	1		
	IC852	943232100380S	I.C , DUAL OPAMP(SOP-8P)	E3	CVINJM8080G	1		
	IC881	90M-HC109700R	I.C , VIDEO S/W (JRC)		CVINJM2595MTE1	1		
	Q7101,7102	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q7111,7112	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q7121,7122	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q7201,7202	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q7211,7212	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q7401	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q7402	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7403	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q7404	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7405	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q7406	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7407	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q7408	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7409	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q7410	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7411	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q7412	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7413	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q7414	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7415	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q7416	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7417	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
	Q7418	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q7419	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q7420	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
	Q7421	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q7422	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
	Q7423	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q7501	943214500030S	T.R , MUTE		CVTINC2001AC1	1		
	Q7502,7503	943214500020S	T.R,2SC3052		CVT2SC3052	2		
	Q7601-7604	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	4		
	Q7605-7607	943214500020S	T.R,2SC3052		CVT2SC3052	3		
	Q7801	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q8001	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q8201	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8202	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q8203	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8205	943214500030S	T.R , MUTE		CVTINC2001AC1	1		
	Q8501	943215500030S	T.R,RT1P441C(47K-47K)	E3	CVTRT1P441C	1		
	Q8502	943216500050S	T.R,RT1N441C(47K-47K)	E3	CVTRT1N441C	1		
	Q8503	943215500030S	T.R,RT1P441C(47K-47K)	E3	CVTRT1P441C	1		
	Q8506,8507	943214500030S	T.R , MUTE	E3	CVTINC2001AC1	2		
	RESISTOR GROUP							
	R7101	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7102	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7103-7105	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	3		
	R7106-7108	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R7111	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7112	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7113-7115	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	3		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R7116-7118	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R7121	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7122	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7123-7125	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	3		
	R7126-7128	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R7131-7134	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	4		
	R7135	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7136	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R7137	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7138	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R7140,7141	nsp	RES, CHIP(1005/5%/2Kohm)		CRJ06IJ202T	2		
	R7142	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7143	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R7144-7146	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
	R7147	nsp	RES, CHIP(1005/5%/1Mohm)		CRJ06IJ105T	1		
	R7148	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7149	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7152	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7201	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7202	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7203-7205	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	3		
	R7206-7208	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R7211	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7212	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7213-7215	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	3		
	R7216-7218	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R7221	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7223	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7224-7228	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	5		
	R7229	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R7230	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7231	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R7232-7234	nsp	RES, CHIP(1005/5%/75ohm)		CRJ06IJ750T	3		
	R7235-7238	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
	R7242	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7245	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7246	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R7247	nsp	RES, CHIP(1005/5%/1Mohm)		CRJ06IJ105T	1		
	R7248	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7251,7252	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R7253,7254	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
	R7255	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7256,7257	nsp	RES, CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	2		
	R7258	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7259,7260	nsp	RES, CHIP(1608/1%/51ohm)		CRJ10DF51R0T	2		
	R7301	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7302	nsp	RES, CHIP(1608/1%/1.6Kohm)		CRJ10DF1601T	1		
	R7303	nsp	RES, CHIP(1608/1%/2Kohm)		CRJ10DF2001T	1		
	R7304,7305	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R7306	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7308	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7310-7312	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R7314	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7315-7322	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	8		
	R7323,7324	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R7326	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R7327	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7329	nsp	RES, CHIP(1005/5%/1Mohm)		CRJ06IJ105T	1		
	R7330	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7331,7332	nsp	RES, CHIP(1005/1%/1Kohm)		CRJ06IF1001T	2		
	R7333	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7334	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7335	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7336-7339	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	4		
	R7340,7341	nsp	RES, CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	2		
	R7342	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7345	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7348,7349	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R7350-7353	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	4		
	R7354	nsp	RES, CHIP(1005/5%/2.2Kohm)		CRJ06IJ222T	1		
	R7355	nsp	RES, CHIP(1005/5%/8.2Kohm)		CRJ06IJ822T	1		
	R7401,7402	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R7403	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7404	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7405	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R7406	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7407	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7408	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7409	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7410	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7411	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7412,7413	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R7414	nsp	RES, CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R7415	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7416	nsp	RES, CHIP(1608/1%/76.8Kohm)		CRJ10DF7682T	1		
	R7421	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7422,7423	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R7424	nsp	RES, CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R7425	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7426	nsp	RES, CHIP(1608/1%/110Kohm)		CRJ10DF1103T	1	*	
	R7431	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7432,7433	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R7434	nsp	RES, CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R7435	nsp	RES, CHIP(1608/1%/200Kohm)		CRJ10DF2003T	1	*	
	R7438	nsp	RES, CHIP(1608/1%/113Kohm)		CRJ10DF1133T	1	*	
	R7440	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7441	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7442,7443	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R7444	nsp	RES, CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R7445	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7446	nsp	RES, CHIP(1608/1%/169Kohm)		CRJ10DF1693T	1		
	R7451	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7452,7453	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R7454	nsp	RES, CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R7455	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7456	nsp	RES, CHIP(1608/1%/499Kohm)		CRJ10DF4993T	1	*	
	R7467,7468	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R7471	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7472,7473	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R7474	nsp	RES, CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R7475	nsp	RES, CHIP(1608/1%/36Kohm)		CRJ10DF3602T	1	*	
	R7476	nsp	RES, CHIP(1608/1%/330Kohm)		CRJ10DF3303T	1		
	R7481,7482	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R7483	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7484	nsp	RES, CHIP(1005/5%/27Kohm)		CRJ06IJ273T	1		
	R7485-7492	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	8		
	R7493	nsp	RES, CHIP(1005/5%/2Kohm)		CRJ06IJ202T	1		
	R7494	nsp	RES, CHIP(1005/5%/18Kohm)		CRJ06IJ183T	1	*	
	R7495	nsp	RES, CHIP(1005/5%/2Kohm)		CRJ06IJ202T	1		
	R7496	nsp	RES, CHIP(1005/5%/18Kohm)		CRJ06IJ183T	1	*	
	R7497	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7498	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7501-7504	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
	R7505	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7506	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7507	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R7508	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7509,7510	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R7511-7513	nsp	RES, CHIP(1005/5%/75ohm)		CRJ06IJ750T	3		
	R7514	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7515	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7516	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7517,7518	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	2		
	R7519-7521	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R7522,7523	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	2		
	R7524,7525	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R7527	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7529-7552	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	24		
	R7553-7555	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	3		
	R7556	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7557	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7558	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7559	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7560	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7561-7565	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	5		
	R7566	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7567,7568	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R7569	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7570	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R7571	nsp	RES, CHIP(1005/5%/2.2Mohm)		CRJ06IJ225T	1		
	R7572	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7573	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7574	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R7575	nsp	RES, CHIP(1005/5%/220Kohm)		CRJ06IJ224T	1		
	R7576	nsp	RES, CHIP(1005/5%/27Kohm)		CRJ06IJ273T	1		
	R7577	nsp	RES, CHIP(1005/5%/1.2Kohm)		CRJ06IJ122T	1		
	R7578	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7580	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7581	nsp	RES, CHIP(1608/5%/0ohm)	E2	CRJ10DJ0R0T	1		
	R7581	nsp	RES, CHIP(1608/5%/10Kohm)	E1C,	CRJ10DJ103T	1		
	R7581	nsp	RES, CHIP(1608/5%/10Kohm)	JP	CRJ10DJ103T	1		
	R7581	nsp	RES, CHIP(1608/5%/18Kohm)	S710	CRJ10DJ183T	1		
	R7582	nsp	RES, CHIP(1608/5%/0ohm)	E3	CRJ10DJ0R0T	1		
	R7582	nsp	RES, CHIP(1608/5%/10Kohm)	E1C,	CRJ10DJ103T	1		
	R7582	nsp	RES, CHIP(1608/5%/22Kohm)	JP	CRJ10DJ223T	1		
	R7582	nsp	RES, CHIP(1608/5%/3.3Kohm)	S710	CRJ10DJ332T	1		
	R7583	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7601-7603	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R7604-7607	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	4		
	R7608	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R7609	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7610	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7611	nsp	RES, CHIP(1005/5%/3.9Kohm)		CRJ06IJ392T	1		
	R7612	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7613	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7617,7618	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R7619	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7623	nsp	RES, CHIP(1005/5%/3.9Kohm)		CRJ06IJ392T	1		
	R7624,7625	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	2		
	R7626	nsp	RES, CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
	R7627	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R7628	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7629	nsp	RES, CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
	R7630	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R7701,7702	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R7703,7704	nsp	RES, CHIP(1005/5%/150ohm)	E3, S710	CRJ06IJ151T	2		
	R7705	nsp	RES, CHIP(1005/5%/470ohm)	E3, S710	CRJ06IJ471T	1		
	R7708	nsp	RES, CHIP(1005/5%/47Kohm)	E3, S710	CRJ06IJ473T	1		
	R7709	nsp	RES, CHIP(1608/5%/330Kohm)	E3, S710	CRJ10DJ334T	1		
	R7710	nsp	RES, CHIP(1005/5%/33ohm)	E3, S710	CRJ06IJ330T	1		
	R7712	nsp	RES, CHIP(1005/5%/0ohm)	E2, E1C, JP	CRJ06IJ0R0T	1		
	R7713,7714	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R7715	nsp	RES, CHIP(1608/5%/91ohm)		CRJ10DJ910T	1		
	R7716-7720	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	5		
	R7721	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7722	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7723,7724	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R7725	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7726	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7727	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7728	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7729	nsp	RES, CHIP(1608/5%/680ohm)		CRJ10DJ681T	1		
	R7730,7731	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R7738,7739	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R7740	nsp	RES, CHIP(1005/5%/1Mohm)		CRJ06IJ105T	1		
	R7751	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7752-7754	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R7755	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7756	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7757-7759	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	3		
	R7760	nsp	RES, CHIP(1608/5%/91ohm)		CRJ10DJ910T	1		
	R7761	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7762-7764	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	3		
	R7765	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7766-7770	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	5		
	R7771-7774	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	4		
	R7775	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7801,7802	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R7803	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7804-7806	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R7807	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7809	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7810,7811	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R7812,7813	nsp	RES, CHIP(1005/5%/2Kohm)		CRJ06IJ202T	2		
	R7814,7815	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R7820	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R7821	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R7822	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7823	nsp	RES, CHIP(1608/5%/20Kohm)		CRJ10DJ203T	1		
	R7824	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7826,7827	nsp	RES, CHIP(1608/5%/3.3Kohm)		CRJ10DJ332T	2		
	R7829	nsp	RES, CHIP(1608/5%/3.3Kohm)		CRJ10DJ332T	1		
	R7832	nsp	RES, CHIP(1608/5%/3.3Kohm)		CRJ10DJ332T	1		
	R7833	nsp	RES, CHIP(1005/5%/4.7Kohm)	E3, E2, E1C, JP	CRJ06IJ472T	1		
	R7834	nsp	RES, CHIP(1005/5%/4.7Kohm)	S710	CRJ06IJ472T	1		
	R7835	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7836,7837	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	2		
	R7838	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7839,7840	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	2		
	R7841	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7842,7843	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R7844	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7846-7850	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	5		
	R7855-7858	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	4		
	R7860-7862	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R7863-7865	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
	R7901	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R7902	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7903,7904	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	2		
	R7907,7908	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R7911,7912	nsp	RES, CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7913	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7914	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7915	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7916	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7917	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7918	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7919	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7921,7922	nsp	RES, CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7923	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7924	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7925,7926	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	2		
	R7927	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7928	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7929	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7931,7932	nsp	RES, CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7933	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7934	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7935	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7936	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7937	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7938	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7939	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7941,7942	nsp	RES, CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7943	nsp	RES, CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
	R7944	nsp	RES, CHIP(1608/0.5%/39Kohm)		CRJ06DD393TP	1		
	R7945,7946	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	2		
	R7947	nsp	RES, CHIP(1608/0.5%/39Kohm)		CRJ06DD393TP	1		
	R7948	nsp	RES, CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
	R7949	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7951,7952	nsp	RES, CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7953	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7954	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7955	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7956	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7957	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7958	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7959	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7961,7962	nsp	RES, CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7963	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7964	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7965,7966	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	2		
	R7967	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7968	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7969	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7971,7972	nsp	RES, CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7973	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7974	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7975	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7976	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7977	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7978	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7979	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7981,7982	nsp	RES, CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7983	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7984	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7985,7986	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	2		
	R7987	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7988	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7989	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R8001	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8002-8005	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	4		
	R8006	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8010	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8011	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R8013	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R8015-8017	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R8019,8020	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R8021,8022	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R8026,8027	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
	R8028	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R8034	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R8035	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8036	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R8037	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8038	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R8040	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R8041	nsp	RES, CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R8042,8043	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R8055	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8057	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8058	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8060	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8061,8062	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T	2		
	R8063,8064	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R8075	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8201,8202	nsp	RES, CHIP(1608/5%/270ohm)		CRJ10DJ271T	2		
	R8203	nsp	RES, CHIP(1608/5%/27Kohm)		CRJ10DJ273T	1		
	R8204	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R8205	nsp	RES, CHIP(1608/5%/27Kohm)		CRJ10DJ273T	1		
	R8206	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R8207	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R8208	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R8209	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R8213,8214	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R8215,8216	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	2		
	R8217,8218	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R8219,8220	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	2		
	R8221	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R8222-8228	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	7		
	R8229-8231	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	3		
	R8236	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R8237-8239	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	3		
	R8240,8241	nsp	RES, M-OXIDE FILM(1W/150ohm)		CRG1SANJ151RT	2		
	R8242-8244	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	3		
	R8245,8246	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R8247-8254	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	8		
	R8255	nsp	RES, CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R8256	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R8257,8258	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R8259	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R8260	nsp	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1		
	R8261	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8263,8264	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	2		
	R8265,8266	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R8267	nsp	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	1		
	R8271	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R8501,8502	nsp	RES, M-OXIDE FILM(1W/470ohm)	E3	CRG1SANJ471RT	2		
	R8503,8504	nsp	RES, CHIP(1608/5%/100Kohm)	E3	CRJ10DJ104T	2		
	R8505,8506	nsp	RES, CHIP(1608/5%/100ohm)	E3	CRJ10DJ101T	2		
	R8507,8508	nsp	RES, CHIP(1608/5%/47Kohm)	E3	CRJ10DJ473T	2		
	R8509,8510	nsp	RES, CHIP(1608/5%/2.2Kohm)	E3	CRJ10DJ222T	2		
	R8511,8512	nsp	RES, CHIP(1608/5%/11Kohm)	E3	CRJ10DJ113T	2		
	R8513,8514	nsp	RES, CHIP(1608/5%/100ohm)	E3	CRJ10DJ101T	2		
	R8515	nsp	RES, CHIP(1608/5%/10Kohm)	E3	CRJ10DJ103T	1		
	R8516	nsp	RES, CHIP(1608/5%/1Kohm)	E3	CRJ10DJ102T	1		
	R8517	nsp	RES, CHIP(1608/5%/470Kohm)	E3	CRJ10DJ474T	1		
	R8518	nsp	RES, CHIP(1608/5%/10Kohm)	E3	CRJ10DJ103T	1		
	R8521	nsp	RES, CHIP(1608/5%/10Kohm)	E3	CRJ10DJ103T	1		
	R8522-8525	nsp	RES, CHIP(1608/5%/470ohm)	E3	CRJ10DJ471T	4		
	R8526-8529	nsp	RES, CHIP(1608/5%/100Kohm)	E3	CRJ10DJ104T	4		
	R8530,8531	nsp	RES, CHIP(1608/5%/220ohm)	E3	CRJ10DJ221T	2		
	R8532	nsp	RES, CHIP(1608/5%/10Kohm)	E3	CRJ10DJ103T	1		
	R8801,8802	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	2		
	R8803	nsp	RES, CHIP(1608/5%/1.8Kohm)		CRJ10DJ182T	1		
	R8804	nsp	RES, CHIP(1608/1%/82ohm)		CRJ10DF82R0T	1		
	R8805	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8806,8807	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT	2		
	R8808	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R9093	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	RN721-723	nsp	RES, CHIP(1005/5%/0ohm*2)		CRJ062IJ0R0T	3		
	RN724	943113100000S	COMMON MODE FILTER (1210, 90ohm)		CLZ9Z188Z	1		
	RN725	nsp	RES, CHIP(1005/5%/10ohm*4)		CRJ064IJ100T	1		
	RN761	nsp	RES, CHIP(1005/5%/33ohm*2)		CRJ062IJ330T	1		
	RN762	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN765	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN766	nsp	RES, CHIP(1005/5%/33ohm*2)		CRJ062IJ330T	1		
	RN767,768	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	2		
	RN769	nsp	RES, CHIP(1005/5%/33ohm*2)		CRJ062IJ330T	1		
	RN781,782	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	2		
	RN783	nsp	RES, CHIP(1005/5%/33ohm*2)		CRJ062IJ330T	1		
	RN784-795	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	12		
	RN801	nsp	RES, CHIP(1005/5%/100ohm*4)		CRJ064IJ101T	1		
	RN802,803	nsp	RES, CHIP(1005/5%/47ohm*4)		CRJ064IJ470T	2		
	RN804	nsp	RES, CHIP(1005/5%/0ohm*2)		CRJ062IJ0R0T	1		
	RN805,806	nsp	RES, CHIP(1005/5%/100ohm*4)		CRJ064IJ101T	2		
	CAPACIITORS GROUP							
	C7101-7113	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	13		
	C7120-7131	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	12		
	C7136-7145	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	10		
	C7146	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7147-7152	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	6		
	C7153	nsp	CAP, CHIP(1608, 50V/10pF, C0G)_SAMSUNG		CCUS1H100JAS	1		
	C7154	nsp	CAP, CHIP(1608, 50V/9pF, C0G)_SAMSUNG		CCUS1H090DAS	1		
	C7155,7156	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7158,7159	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	2		
	C7160-7163	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	4		
	C7164	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7166,7167	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7169-7171	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	3		
	C7173,7174	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	2		
	C7175,7176	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	2		
	C7177-7180	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	4		
	C7201	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7211	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7221-7231	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	11		
	C7238-7249	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	12		
	C7254-7263	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	10		
	C7264	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7265-7270	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	6		
	C7271	nsp	CAP, CHIP(1608, 50V/10pF, C0G)_SAMSUNG		CCUS1H100JAS	1		
	C7272	nsp	CAP, CHIP(1608, 50V/9pF, C0G)_SAMSUNG		CCUS1H090DAS	1		
	C7273-7275	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	3		
	C7276	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7277-7280	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	4		
	C7281	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
	C7282-7284	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	3		
	C7286-7289	nsp	CAP, CHIP(1608, 6.3V/4.7uF, X5R)_SAMSUNG		CCUS0J475KCS	4		
	C7291-7293	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	3		
	C7301-7308	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	8		
	C7309	nsp	CAP, ELECT(10V/100uF)		CCEA1AH101T	1		
	C7310	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7311	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7312	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7313	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7314	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7315	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7318	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7319	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7322-7325	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	4		
	C7326	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7327	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C7328	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7329	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7332-7337	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	6		
	C7338	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7340	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7341	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7342-7349	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	8		
	C7350,7351	nsp	CAP, CHIP(1608, 50V/5pF, C0G)_SAMSUNG		CCUS1H050CAS	2		
	C7352,7353	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	2		
	C7371-7374	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	4		
	C7383	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7384	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7387	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7388	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7401	nsp	CAP, ELECT(16V/470uF)		CCEA1CH471T	1		
	C7403	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7405	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7406	nsp	CAP, ELECT(16V/470uF)		CCEA1CH471T	1		
	C7410	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	C7411	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7412	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7413	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7414	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7415	nsp	CAP, CHIP(1608, 50V/3.3pF, C0G)_SAMSUNG		CCUS1H3R3JAS	1		
	C7416	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7417	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7418	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7419	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7420	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7422	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7423	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7424	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7425	nsp	CAP, CHIP(1608, 50V/5pF, C0G)_SAMSUNG		CCUS1H050CAS	1		
	C7426	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7427	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7428	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7429	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7430	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7433	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7434	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7435	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7436	nsp	CAP, CHIP(1608, 50V/5pF, C0G)_SAMSUNG		CCUS1H050CAS	1		
	C7437	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7438	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7439	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7440	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7441	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7444	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7445	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7446	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7447	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7448	nsp	CAP, CHIP(1608, 50V/5pF, C0G)_SAMSUNG		CCUS1H050CAS	1		
	C7449	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7450	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7451	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7452	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7453	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7454	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	C7456	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7457	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7458	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7459	nsp	CAP, CHIP(1608, 50V/5pF, C0G)_SAMSUNG		CCUS1H050CAS	1		
	C7460	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7461	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7462	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7463	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7464	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7478	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7479	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7480	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7481	nsp	CAP, CHIP(1608, 50V/5pF, C0G)_SAMSUNG		CCUS1H050CAS	1		
	C7482	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7483	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7484	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7485	nsp	CAP, CHIP(2012, 6.3V/22uF, X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7486	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7489	nsp	CAP, CHIP(1005, 25V/0.022uF, X7R)_SAMSUNG		CCUI1E223KCS	1		
	C7490	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7491	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	1		
	C7492-7502	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	11		
	C7503,7504	nsp	CAP, CHIP(1608, 50V/9pF, C0G)_SAMSUNG		CCUS1H090DAS	2		
	C7505	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7506	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7507-7514	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	8		
	C7516	nsp	CAP, CHIP(1005, 50V/220pF, C0G)_SAMSUNG		CCUI1H221JAS	1		
	C7517,7518	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	2		
	C7520-7523	nsp	CAP, CHIP(1608, 50V/0.01uF, X7R)_SAMSUNG		CCUS1H103KCS	4		
	C7601	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7603-7605	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG		CCUI1E103KCS	3		
	C7701,7702	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	2		
	C7704	nsp	CAP, CHIP(1005, 25V/0.01uF, X7R)_SAMSUNG	E3, S710	CCUI1E103KCS	1		
	C7705,7706	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG	E3, S710	CCUI1C104KCS	2		
	C7707,7708	nsp	CAP, CHIP(1608, 50V/4700pF, X7R)_SAMSUNG		CCUS1H472KCS	2		
	C7709,7710	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	2		
	C7711	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7712	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C7713,7714	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	2		
	C7715	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C7716	nsp	CAP, CHIP(1608, 50V/12pF, C0G)_SAMSUNG		CCUS1H120JAS	1		
	C7717	nsp	CAP, CHIP(1608, 50V/15pF, C0G)_SAMSUNG		CCUS1H150JAS	1		
	C7718	nsp	CAP, CHIP(2012, 50V/4700pF, MURATA GRM21)		CCUMUC1H472JAM	1		
	C7719	nsp	CAP, CHIP(3216, 50V/0.068uF, MURATA GRM31)		CCUMUP1H683JAM	1		
	C7720	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7721	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C7722	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7723	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C7724	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7725	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
	C7726,7727	nsp	CAP, CHIP(1005, 50V/33pF, C0G)_SAMSUNG		CCUI1H330JAS	2		
	C7751-7758	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	8		
	C7801-7804	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	4		
	C7805	nsp	CAP, CHIP(1005, 50V/100pF, C0G)_SAMSUNG		CCUI1H101JAS	1		
	C7806	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C7807	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C7808	nsp	CAP, ELECT(10V/47uF)		CCEA1AH470T	1		
	C7809-7811	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	3		
	C7812	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7813	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7814	nsp	CAP, CHIP(1608, 50V/12pF, C0G)_SAMSUNG		CCUS1H120JAS	1		
	C7815	nsp	CAP, CHIP(1608, 50V/15pF, C0G)_SAMSUNG		CCUS1H150JAS	1		
	C7816-7831	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	16		
	C7832	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7833,7834	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	2		
	C7835	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7836	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7837	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7838	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7839,7840	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	2		
	C7841	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7842	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7843	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7844	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7845	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7846	nsp	CAP, CHIP(2012, 6.3V/47uF, X5R)_SAMSUNG		CCUC0J476KCS	1	*	
	C7901	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7902	nsp	CAP,ELECT(KR1,47uF/63V,8X11.5)		CCEA1JKR1470T	1		
	C7903	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7904	nsp	CAP, ELECT(16V/220uF)		CCEA1CH221T	1		
	C7905	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7906	nsp	CAP, ELECT(50V/470uF)		CCEA1HH471E	1		
	C7907	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7908-7910	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	3		
	C7911	nsp	CAP, CHIP(1608, 50V/1800pF, X7R)_SAMSUNG		CCUS1H182KCS	1		
	C7913,7914	nsp	CAP, CHIP(1608, 50V/270pF, C0G)_SAMSUNG		CCUS1H271JAS	2		
	C7916	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101E	1		
	C7921	nsp	CAP, CHIP(1608, 50V/1800pF, X7R)_SAMSUNG		CCUS1H182KCS	1		
	C7923,7924	nsp	CAP, CHIP(1608, 50V/270pF, C0G)_SAMSUNG		CCUS1H271JAS	2		
	C7926	nsp	CAP , ELECT(63V/100uF)		CCEA1JH101E	1		
	C7931	nsp	CAP, CHIP(1608, 50V/1800pF, X7R)_SAMSUNG		CCUS1H182KCS	1		
	C7933,7934	nsp	CAP, CHIP(1608, 50V/270pF, C0G)_SAMSUNG		CCUS1H271JAS	2		
	C7941	nsp	CAP, CHIP(1608, 50V/1200pF, X7R)_SAMSUNG		CCUS1H122KCS	1		
	C7943,7944	nsp	CAP, CHIP(1608, 50V/150pF, C0G)_SAMSUNG		CCUS1H151JAS	2		
	C7951	nsp	CAP, CHIP(1608, 50V/1800pF, X7R)_SAMSUNG		CCUS1H182KCS	1		
	C7953,7954	nsp	CAP, CHIP(1608, 50V/270pF, C0G)_SAMSUNG		CCUS1H271JAS	2		
	C7961	nsp	CAP, CHIP(1608, 50V/1800pF, X7R)_SAMSUNG		CCUS1H182KCS	1		
	C7963,7964	nsp	CAP, CHIP(1608, 50V/270pF, C0G)_SAMSUNG		CCUS1H271JAS	2		
	C7971	nsp	CAP, CHIP(1608, 50V/1800pF, X7R)_SAMSUNG		CCUS1H182KCS	1		
	C7973,7974	nsp	CAP, CHIP(1608, 50V/270pF, C0G)_SAMSUNG		CCUS1H271JAS	2		
	C7981	nsp	CAP, CHIP(1608, 50V/1800pF, X7R)_SAMSUNG		CCUS1H182KCS	1		
	C7983,7984	nsp	CAP, CHIP(1608, 50V/270pF, C0G)_SAMSUNG		CCUS1H271JAS	2		
	C7991,7992	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	2		
	C7993,7994	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	2		
	C7995-8000	nsp	CAP, CHIP(1005, 50V/1000pF, X7R)_SAMSUNG		CCUI1H102KCS	6		
	C8001-8004	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	4		
	C8005,8006	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	2		
	C8007	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C8008,8009	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	2		
	C8010,8011	nsp	CAP, CHIP(1608, 10V/1uF, X7R, X7S)_SAMSUNG		CCUS1A105KCS	2		
	C8012	nsp	CAP, CHIP(1005, 25V/0.022uF, X7R)_SAMSUNG		CCUI1E223KCS	1		
	C8018	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C8021,8022	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	2		
	C8023,8024	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	C8051-8053	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	3		
	C8054	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C8055,8056	nsp	CAP, CHIP(1608, 6.3V/2.2uF, X7R)_SAMSUNG		CCUS0J225KCS	2		
	C8057	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C8059	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C8060	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C8061	nsp	CAP, CHIP(1005, 16V/0.1uF, X7R)_SAMSUNG		CCUI1C104KCS	1		
	C8062	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)_SAMSUNG		CCUC0J106KCS	1		
	C8063,8064	nsp	CAP, CHIP(1608, 50V/2200pF, X7R)_SAMSUNG		CCUS1H222KCS	2		
	C8201,8202	nsp	CAP, CHIP(1608, 50V/100pF, C0G)_SAMSUNG		CCUS1H101JAS	2		
	C8203	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C8204,8205	nsp	CAP, CHIP(1608, 50V/100pF, C0G)_SAMSUNG		CCUS1H101JAS	2		
	C8206	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C8207	nsp	CAP, ELECT(10V/470uF)		CCEA1AH471T	1		
	C8208-8210	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	3		
	C8212,8213	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	2		
	C8215,8216	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	2		
	C8217-8220	nsp	CAP, CHIP(1608, 50V/220pF, C0G)_SAMSUNG		CCUS1H221JAS	4		
	C8221-8223	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	3		
	C8224,8225	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	2		
	C8226-8230	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	5		
	C8231,8232	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	2		
	C8235,8236	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	2		
	C8237,8238	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	2		
	C8239,8240	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	2		
	C8243	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C8244-8251	nsp	CAP, ELECT(50V/47uF)		CCEA1HH470T	8		
	C8252-8258	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	7		
	C8259	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
	C8260,8261	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	2		
	C8262	nsp	CAP, ELECT(50V/0.1uF)		CCEA1HH0R1T	1		
	C8263,8264	nsp	CAP, ELECT(50V/22uF)		CCEA1HH220T	2		
	C8265	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG		CCUS1H331JAS	1		
	C8266	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	1		
	C8501,8502	nsp	CAP, ELECT(50V/10uF)	E3	CCEA1HH100T	2		
	C8503,8504	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG	E3	CCUS1H104KCS	2		
	C8505,8506	nsp	CAP, ELECT(50V/100uF)	E3	CCEA1HH101T	2		
	C8507-8510	nsp	CAP, ELECT(50V/10uF)	E3	CCEA1HH100T	4		
	C8511,8512	nsp	CAP, CHIP(1608, 50V/39pF, C0G)_SAMSUNG	E3	CCUS1H390JAS	2		
	C8513	nsp	CAP, ELECT(50V/0.1uF)	E3	CCEA1HH0R1T	1		
	C8514-8517	nsp	CAP, ELECT(50V/22uF)	E3	CCEA1HH220T	4		
	C8518,8519	nsp	CAP, CHIP(1608, 50V/330pF, C0G)_SAMSUNG	E3	CCUS1H331JAS	2		
	C8520	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG	E3	CCUS1H104KCS	1		
	C8807	nsp	CAP, CHIP(1608, 50V/22pF, C0G)_SAMSUNG		CCUS1H220JAS	1		
	C8808,8809	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	2		
	C8810,8811	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	2		
	C8812,8813	nsp	CAP, ELECT(50V/100uF)		CCEA1HH101T	2		
	C8820-8831	nsp	CAP, CHIP(1608, 50V/0.1uF, X7R)_SAMSUNG		CCUS1H104KCS	12		
	OTHER PARTS GROUP							
	BK801	nsp	BRACKET , CY920		CMD1A924	1	*	
	BN701-703	nsp	WIRE ASS'Y(1P, 80MM,BLK,#22)		CWE5202080A	3		
	CN701	nsp	WAFER, FFC(23PIN, 1mm STRAIGHT)		CJP23GA333ZR	1	*	
	CN741	nsp	WAFER, STRAIGHT 2.5MM DIP 06P		CJP06GA353ZJ	1		
	CN751	nsp	WAFER,FFC 1.25mm,STRAIGHT		CJP27GA285ZN	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	CN754	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/3PIN	E3	CJP03GI288ZY	1		
	CN761	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/9PIN		CJP09GI288ZY	1		
	CN762	nsp	LOCKING TYPE , STRAIGHT 8P WAFER		CJP08GI288ZY	1		
	CN763	nsp	WAFER, FFC(4P-1mm, ANGLE)		CJP04GB113ZY	1		
	CN801,802	nsp	WAFER, 64pin (2 x 32 x 1.27mm) MALE SMD TYPE		CJP64GA321ZP	2	*	
	CN803	nsp	WAFER, FFC(7PIN, 1mm STRAIGHT)		CJP07GA333ZR	1	*	
	CN804	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/5PIN		CJP05GI288ZY	1		
	CN821	nsp	PIN SOCKET (09P,1.25mm,ANGLE,B-TO-B)		CJP09HJ282Z	1		
	CN822	nsp	PINSOCKET(15P,1.25mm,ANGLE,B-TO-B)		CJP15HJ282Z	1		
	CN823	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/5PIN		CJP05GI288ZY	1		
	JK701	943643102920S	JACK , HDMI(TYPE-A, SMT-19P, WITH FLANGE)		CJJ9H021Z	1		
	JK711	943643102920S	JACK , HDMI(TYPE-A, SMT-19P, WITH FLANGE)		CJJ9H021Z	1		
	JK721	943643102920S	JACK , HDMI(TYPE-A, SMT-19P, WITH FLANGE)		CJJ9H021Z	1		
	JK731	943643102920S	JACK , HDMI(TYPE-A, SMT-19P, WITH FLANGE)		CJJ9H021Z	1		
	JK741	943643102920S	JACK , HDMI(TYPE-A, SMT-19P, WITH FLANGE)		CJJ9H021Z	1		
	JK751	943643102920S	JACK , HDMI(TYPE-A, SMT-19P, WITH FLANGE)		CJJ9H021Z	1		
	JK771	943643100170S	JACK, 1P(ORG), SILVER	E3, S710	CJJ4M043Y	1		
	JK772,773	943262100150S	MODULE , OPTICAL(RX 16MHz)		CJSJSR1124	2		
	JK801	943643102430S	JACK , RJ-45 W/TRANSFORMER		CJJ9L029Z	1		
	JK821	943643101570S	JACK, 4P(W/R,W/R),SEPA-GND		CJJ4P048U	1		
	JK822	943643102940S	JACK, RCA 2P (B/B) SILVER VERTICAL		CJJ4N110Z	1		
	JK851	943643010150S	JACK, 2P(W/R),SEPA-GND, SILVER	E3	CJJ4N034U	1		
	JK881	943643102370S	JACK , RCA 3P (Y/Y/Y) , SILVER		CJJ4S052Z	1		
	L7101	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7103-7106	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	4		
	L7108	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7109	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7110,7111	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	2		
	L7201,7202	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	2		
	L7204-7206	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	3		
	L7208-7210	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	3		
	L7301-7308	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	8		
	L7401-7403	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	3		
	L7411	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7413	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7421	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7424	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7429	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7430	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7431	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7434	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7441	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7444	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7451	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7454	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7471	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7474	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7481	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7482	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L7483	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7501-7520	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	20		
	L7521	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L7522-7527	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	6		
	L7528-7530	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)	E3	CLZ9R005V	3		
	L7601-7618	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	18		
	L7801-7803	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	3		
	L8001-8004	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	4		
	L8006	nsp	FERRITE CHIP BEAD(2012/220R, CB05YTYH221)		CLZ9R018V	1		
	L8007,8008	nsp	COMMON MODE FILTER (2012, 90ohm)		CLZ9Z174Z	2		
	L8201,8202	nsp	FERRITE CHIP BEAD(1608/60R,CB03YTYH600)		CLZ9R005V	2		
	X7101	943141101290S	X-TAL, SMD(27MHz/7pF, FA-238, 3.2X2.5)		COX27000I070SP	1		
	X7201	943141101290S	X-TAL, SMD(27MHz/7pF, FA-238, 3.2X2.5)		COX27000I070SP	1		
	X7301	943141101440S	X-TAL, SMD(28.63636MHz/7pF, FA-238, 3.2X2.5)		COX28636I070SP	1	*	
	X7501	943141101260S	X-TAL, SMD(12MHz/8pF, FA-238V, 3.2X2.5)		COX12000I080SP	1		
	X7701	943141101310S	X-TAL, SMD(24.576MHz/10pF, FA-238, 3.2X2.5)		COX24576I100SP	1		
	X7801	943141101310S	X-TAL, SMD(24.576MHz/10pF, FA-238, 3.2X2.5)		COX24576I100SP	1		

EXPLODED

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

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

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	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	P1	nsp	FRONT PCB ASS'Y		COP12736C	1	*	
	┣P2	nsp	STANDBY PCB ASS'Y		COP12736C	1	*	
	┣P3	nsp	PHONE PCB ASS'Y		COP12736C	1	*	
	┣P4	nsp	USB&MIC PCB ASS'Y		COP12736C	1	*	
	┗P17	nsp	PHONE WIRE GUIDE		COP12736C	1	*	
	P6	nsp	MAIN PCB ASS'Y		COP12737B	1	*	
	┣P7	nsp	HDMI CABLE GUIDE		COP12737B	1	*	
	┣P8	nsp	FRONT CABLE GUIDE		COP12737B	1	*	
	┗P15	nsp	TUNER PCB ASS'Y		COP12737B	1	*	
	P9	nsp	BIAS TR PCB ASS'Y		COP12618B	7		
	┗P12	nsp	DIFF AMP PCB ASS'Y		COP12618B	1		
	P10	nsp	POWER PCB ASS'Y		COP12738C	1	*	
	┗P11	nsp	REGULATOR PCB ASS'Y		COP12738C	1	*	
	P13	9U6391021500S	DIGITAL PCB ASS'Y (E3)	E3	COP12739C	1	*	
	P13	9U6391021400S	DIGITAL PCB ASSY (S710WE3)	S710	COP12739B	1	*	
	P13	9U6391021600S	DIGITAL PCB ASSY (E2)	E2	COP12739D	1	*	
	P13	9U6391021700S	DIGITAL PCB ASSY (E1C/JP)	E1C, JP	COP12739E	1	*	
	P5	943639102070S	FRONT-HDMI PCB ASS'Y		COP12754B	1	*	
	P14	9R1891003003D	CY920 MODULE ASSY		CVIANAM2112AV	1		
!	P16	943101102410D	TRANS , POWER AVR-S700W_X1100W/E3, (85.8X69)	E3, S710	CLT5U057ZU	1		
!	P16	943101102420D	TRANS , POWER AVR-X1100W/E1/E2, (85.8X69)	E2	CLT5U057ZE	1		
!	P16	943101102430D	TRANS , POWER AVR-X1100W/E1C, (85.8X69)	E1C	CLT5U057ZH	1		
!	P16	943101102440D	TRANS , POWER AVR-X1100W/K, (85.8X69)	JP	CLT5U057ZJ	1		
!	P18	00MYJ04002640	RECEPTACLE , AC(15A/250V,R-301,B21)	E3, E2	CJJ8A006ZW	1		
	F1	943412100710D	KNOB , VOLUME		CBN1A263	1		
	F2	943446100590D	PLATE , VOLUME KNOB		CGX1A469	1		
	F3	943412101070D	KNOB,SELECT		CBN1A274	1		
	F4	943446100760D	PLATE,SELECT KNOB	E3	CGX1A481	1		
	F5	943402105410D	FRONT/SUB PANEL ASS'Y	E3	CGW1A552YA VGW1A552YA	1	*	
	F5	943402105420D	FRONT/SUB PANEL ASS'Y	E2, E1C	VGW1A553NA	1	*	
	F5	943402105430D	FRONT/SUB PANEL ASS'Y	JP	VGW1A553PA	1	*	
	F5	943402105400D	FRONT/SUB PANEL ASS'Y	S710	CGW1A553QA VGW1A553QA	1	*	
	F6	943416101290D	WINDOW , FL	E3, JP	CGU1A462R VGU1A462R	1		
	F6	943416101520D	WINDOW , FL	E2, E1C	VGU1A462S	1	*	
	F6	943416101280D	WINDOW , FL	S710	CGU1A462Q VGU1A462Q	1		
	F7	42141003400AD	BADGE , DENON	E3, JP	CGB1A275Z	1		
	F7	42141002400AD	BADGE , DENON	E2, E1C, S710	CGB1A254Z-V1	1		
	F9	943411101750D	BUTTON , POWER		CBT1A1167	1		
	F10	943423100510D	INDICATOR , POWER		CGL1A299A36	1		
	F11-1	943411101770D	BUTTON , 10KEY		CBT2A1164	1		
	F11-2	943411103220D	BUTTON , SOURCE	S710	CBT1A1195	1		
	F11-3	943411103210D	BUTTON , NETWORK	S710	CBT1A1194	1		
	F12	nsp	EARTH PLATE , HDMI		CMC1A431	1		
	F13	nsp	EARTH PLATE , USB		CMC1A430	1		
	F14	42131003300AD	BADGE, INCOMMAND	E3	CGB1A276Z	1		
	F15	nsp	CUSHION , HDMI		CHG1A622	1		
	M1	nsp	CHASSIS , BOTTOM		CUA3A335 VUA3A335	1		
	M2	nsp	RUBBER		CHG1A113	1		
	M3	nsp	LABEL , BOTTOM		VQB1A1243	1		
	M4	943407100020D	FOOT		CKL1A190	4		
	M5	nsp	CUSHION , FOOT		CHG2A289	4		
	M6	nsp	HEAT SINK MAIN		CMY1A408 VMY1A408	1		
	M7	nsp	HOLDER , PCB		CHE170	2		
	M8	nsp	SMPS BRACKET		CMD1A790	1		
	M9	nsp	PANEL , REAR	E3	CKF1A480R VKF1A480R	1	*	
	M9	nsp	PANEL , REAR	E2	VKF2A480N	1	*	
	M9	nsp	PANEL , REAR	E1C	VKF3A480M	1	*	
	M9	nsp	PANEL , REAR	JP	VKF3A480Q	1	*	
	M9	nsp	PANEL , REAR	S710	CKF4A480S VKF4A480S	1	*	
	M10	nsp	BUSHING , AC CORD	E1C, JP, S710	CHR1A028	1		
!	M10★	90M-YC000850R	POWER CORD (CHINA CONNECTOR TYPE WHITE BANDING)	E1C	CJA2N047WA	1		
!	M10★	943611006710S	POWER CORD (JAPAN CONNECTOR TYPE WHITE BANDING)	JP	CJA2J049WA	1		
!	M10★	90M-YC000780R	POWER CORD (USA CONNECTOR TYPE, WHITE BANDING)	S710	CJA523FBWA	1		
	M11	963419100930S	CLIP , WIFI ANTENNA		CMH1A360	2		
	M12	963419100910S	BUSH , WIFI ANTENNA		CMH1A357	2		
	M13	963419100920S	HOLDER , WIFI ANTENNA		CMH1A358	2		
	M14-1	963116100530S	WIFI ANT(L) : wire 450mm		E600506600010S	1		
	M14-2	963116100540S	WIFI ANT(R) : wire 300mm		E600505600010S	1		
	M15	943403100570D	CABINET , TOP		CKC1A215K117	1		
	★	943606502480S	CARD CABLE(1.25mm,27P,170mm,Btype, 105'C, Shield		CWC5C4A27B170B1	1		
	★	943606502470S	CARD CABLE(1.0mm, 23P, 230mm, Btype, 105'C)		CWC5F4A23A230B0	1		
	SCREW							
	S1	nsp	SCREW		CTB3+6JR VTB3+6JR	5		
	S2	nsp	SCREW		CTB3+6FR	7		
	S3	nsp	SCREW		CTBD3+6FFZR VTBD3+6FFZR	13		
	S4	nsp	SCREW		CTB3+8JR VTB3+8JR	30		
	S5	nsp	SCREW	E2	CTB3+8JFZR VTB3+8JFZR	2		
	S5	nsp	SCREW		CTB3+8JFZR VTB3+8JFZR	5		
	S6	nsp	SCREW		CTBD3+8JFZR VTBD3+8JFZR	22		
	S7	nsp	SCREW		CTW3+8JR VTW3+8JR	6		
	S8	nsp	SCREW		CTW3+12JR VTW3+12JR	2		
	S9	nsp	SCREW		CTBD4+8JFZR	6		
	S10	nsp	SCREW , TRANS		CHDR1A023R VHDR1A023R	4		
	S11	nsp	SCREW , SPECIAL		CHD4A012R VHD4A012R	3		
	S12	nsp	SCREW , SPECIAL		CHD1A012ZR VHD1A012ZR	21		
	S13	nsp	SCREW		CTWS3+10GR VTWS3+10GR	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	S14	nsp	SCREW		CTW3+6JR VTW3+6JR	2		

PACKING

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	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	1	nsp	POLY SHEET		CPB2A213 VPB1A213	1		
!	2	943611500590S	POWER CORD (USA PLUG+SOCKET WHITE BANDING)	E3	CJA2A119Y	1		
!	2	90M-ZC000320R	POWER CORD (EUR PLUG+SOCKET WHITE BANDING)	E2	CJA2B054Y	1		
	3	943533102470D	PAD , SNOW TOP		CPS1A983 VPS1A983	1		
	4	943533102480D	PAD , SNOW BOTTOM		CPS1A984 VPS1A984	1		
	5	-	INSTRUCTION MANUAL ASS'Y		-	1		
	5-1	nsp	BAG,POLY		CPB1A216Z VPB1A216Z	1		
	5-1	nsp	BAG,POLY		CPB1A197Z VPB1061W	1		
	5-2	nsp	SHEET , NOTE ON RADIO		CQE1A757Z VQE1A757Z	1	*	
	5-3	nsp	SHEET , SAFETY	E3, S710	CQE1A759Z VQE1A759Z	1	*	
	5-3	nsp	SHEET , SAFETY	E2	VQE1A760Z	1	*	
	5-3	nsp	SHEET , SAFETY	E1C	VQE1A761Z	1	*	
	5-3	nsp	SHEET , SAFETY	JP	VQE1A762Z	1	*	
	5-4	nsp	CARD , WARRANTY	E3, S710	CQE1A224N VQE1A224N	1		
	5-5	nsp	SHEET , INSERTION	E3	CQE1A559Z	1		
	5-5	54111127600AD	SHEET , GETTING START	S710	CQX1A1884Z VQX1A1884Z	1	*	
	5-6	943543104070S	LABEL , SPEAKER		CQB1A1383Z	1	*	
	5-7	nsp	CARD FOR CHINA INDENTIFICATION	E1C	VQE1A450Z	1		
	5-8	943116100170D	FM 1 POLE ANT (UL TYPE)		CSA1A044Z	1		
	5-9	963116100070S	ANT, AM LOOP(9.5uH/5T)		CSA1A039Y	1		
	5-10	nsp	China Tuner Isolator, SGLBF-6B	E1C	CLR9Z001Z	1		
	6	-	CD/GETTING ASS'Y	E3, E2, E1C, JP	-	1		
	6-1	nsp	BAG , ZIPPER POLY(A5)	E3, E2, E1C, JP	VPB1A227Z	1	*	
	6-2	35201039500AD	CD MANUAL ASS'Y	E2	VFT1A162ZA	1	*	
	6-2	35201039600AD	CD MANUAL ASS'Y	E1C	VFT1A163ZA	1	*	
	6-2	35201039700AD	CD MANUAL ASS'Y	JP	VFT1A164ZA	1	*	
	6-3	54111126500AD	SHEET , GETTING START	E3	CQX1A1885Z VQX1A1885Z	1	*	
	6-3	54111128800AD	SHEET , GETTING START	E2	VQX1A1886Z	1	*	
	6-3	54111128900AD	SHEET , GETTING START	E1C	VQX1A1887Z	1	*	
	6-3	54111129000AD	SHEET , GETTING START	JP	VQX1A1888Z	1	*	
	7	30701016700AD	REMOCON ASS'Y (RC-1189) AVR-X1100W/S700W		CARTAVRX1100W/S	1		
	8	nsp	BATTERY , AAA 2PCS IN PACK		CABR03PPB-GN	2		
	9	32401000800AD	MIC , AUDYSSEY		CJXACM1HB	1		
	10	963549101000D	MIC STAND ASS'Y		CPG1A1021YA	1	*	
	11	943531105020D	BOX , OUT CARTON	E3	CPG2A1014T VPG1A1014T	1	*	
	11	943531105030D	BOX , OUT CARTON	E2	VPG1A1014R	1	*	
	11	943531105040D	BOX , OUT CARTON	E1C	VPG1A1014Q	1	*	
	11	943531105050D	BOX , OUT CARTON	JP	VPG1A1014S	1	*	
	11	943531105010D	BOX , OUT CARTON	S710	CPG2A1014U VPG1A1014U	1	*	
	12	nsp	LABEL , CONTROL		VQB1A993Z	1	*	
	13	nsp	CARD , GUARANTEE (M)	JP	VQE1A194T	1	*	
	13	nsp	CARD , WARRANTY CHINA	E1C	CQE1A473W VQE1A473W	1		
	14	nsp	LABEL , RETURN	E3	CQB1A1414Z	1	*	
	14	nsp	LABEL , RETURN	S710	CQB1A1413Z	1	*	
	★	nsp	LABEL,AM ANTENNA	E3, E2, E1C, JP	CQB1A1240Z VQB1A1240Z	1		
	★	nsp	LABEL,FM ANTENNA	E3, E2, E1C, JP	CQB1A1241Z VQB1A1241Z	1		
	★	nsp	LABEL, MIC		CQB1A1242Z VQB1A1242Z	1		