DENON

Ver. 4

Please refer to the MODIFICATION NOTICE.

SERVICE MANUAL

MODEL	JP	E3	E2	EK	EA	E1	E1C	E1K
AVR-X2200W	✓	✓	✓				✓	
AVR-S910W		✓						

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.

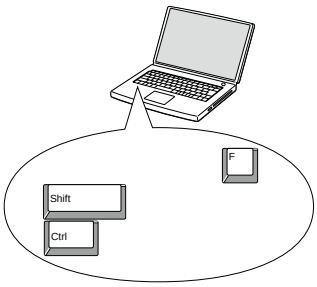
What you can do with this manual

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.

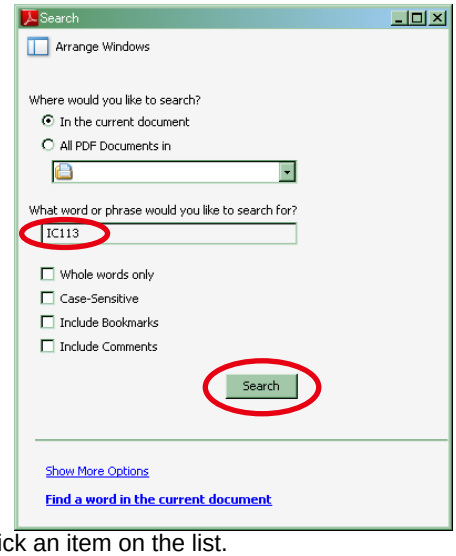
1.Press **Ctrl+Shift+F** on the keyboard.

- 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.



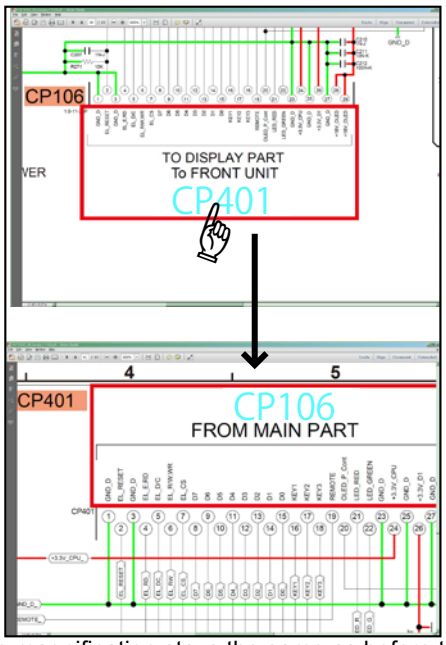
3.Click an item on the list.

• 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.

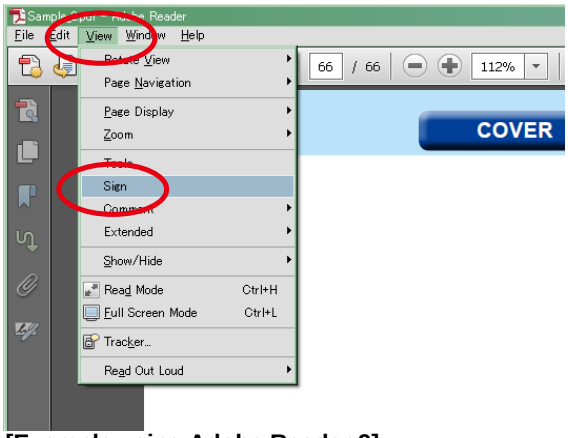
Using Adobe Reader (Windows version)

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.



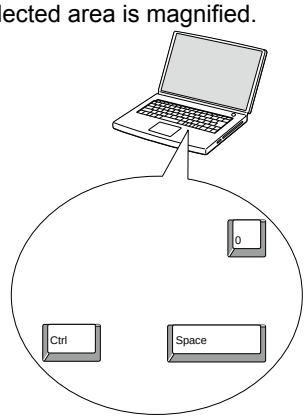
[Example using Adobe Reader 9]
On the **"Document"** menu, click **"Sign"**.

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.

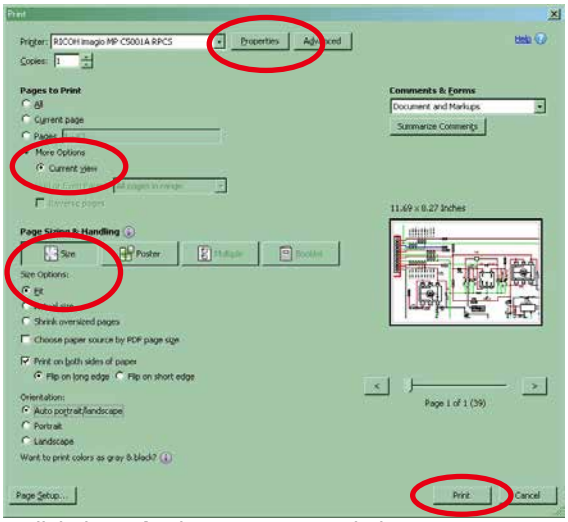


- When you want to move the area shown, hold down **Space** and drag the mouse.
- When you want to show a full page view, press **Ctrl+0** on the keyboard.

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**"

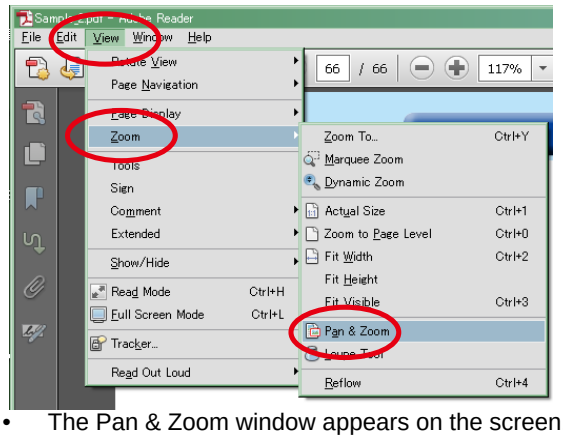
4. Click the **Print** button to start printing.

Magnify schematic / printed circuit board diagrams - 2

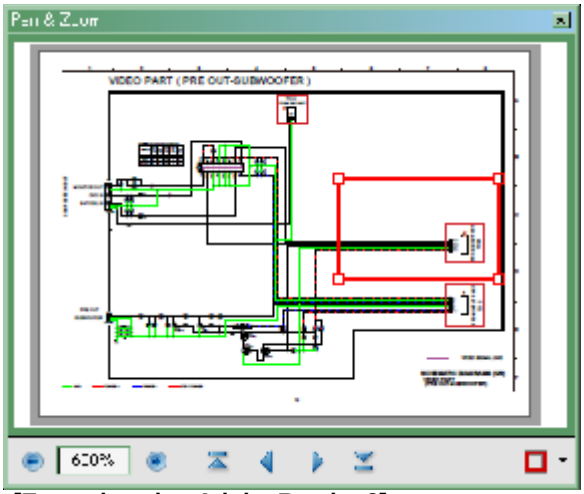
(Pan & Zoom function)

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.



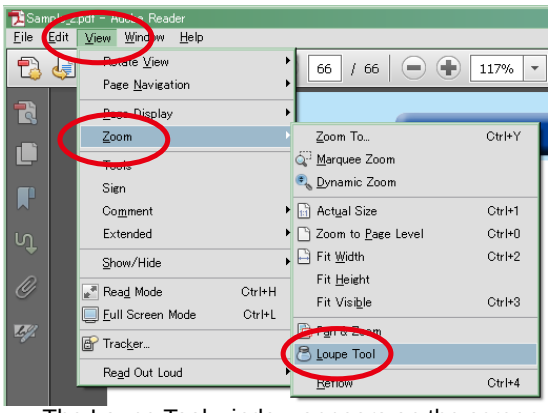
[Example using Adobe Reader 9]
On the **"Tools"** menu, point to **"Select & Zoom"**, and then click **"Pan & Zoom Window"**.

Magnify schematic / printed circuit board diagrams - 3

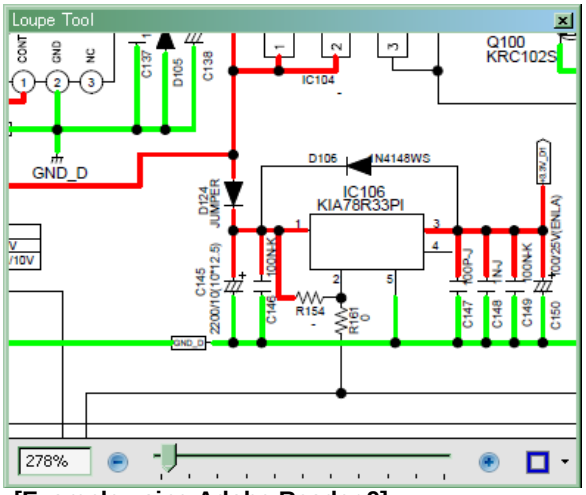
(Loupe Tool function)

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

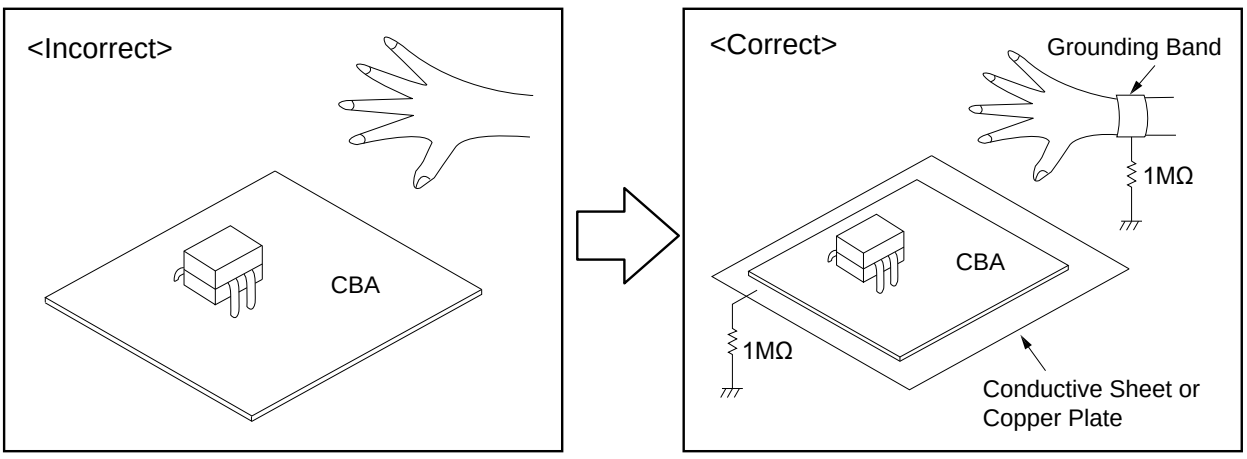
1. Parts indicated by **"nsp"** on this table cannot be supplied.
2. When ordering a part, make a clear distinction between "1" and "I" (i) to avoid mis-supplying.
3. A part ordered without specifying its part number can not be supplied.
4. Part indicated by " ★ " mark is not illustrated in the exploded 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-X2200W

❑ Audio section

- **Power amplifier**

Rated output :

Front :

95 W + 95 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)
125 W + 125 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Center :

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

Surround :

95 W + 95 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)
125 W + 125 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Surround back :

95 W + 95 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)
125 W + 125 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 : 100 dB (IHF-A, Direct mode)

❑ Video section

- **Color component video connector**

Input/output level and impedance : Y signal — 1 Vp-p, 75 Ω
P_B / C_B signal — 0.7 Vp-p, 75 Ω
P_R / C_R signal — 0.7 Vp-p, 75 Ω

Frequency response : 5 Hz - 60 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) (for E3) **FM** 1.2 μV (12.8 dBf) (for E2, E1C, JP) **AM** 18 μV (for E3) **AM** 18 μV (for E2, E1C, JP)
50 dB sensitivity :	MONO — 2.8 μV (20.2 dBf)
S/N ratio (IHF-A) :	MONO — 70 dB (for E3) MONO — 78 dB (for E2, E1C, JP) STEREO — 67 dB (for E3) STEREO — 67 dB (for E2, E1C, JP)
Distortion :	MONO — 0.7 % (for E3) MONO — 0.7 % (1 kHz) (for E2, E1C, JP) SRETEO — 1.0 % (for E3) SRETEO — 1.0 % (1 kHz) (for E2, E1C, JP)

❑ 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

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 : 500 W

Power consumption in standby mode : 0.1 W

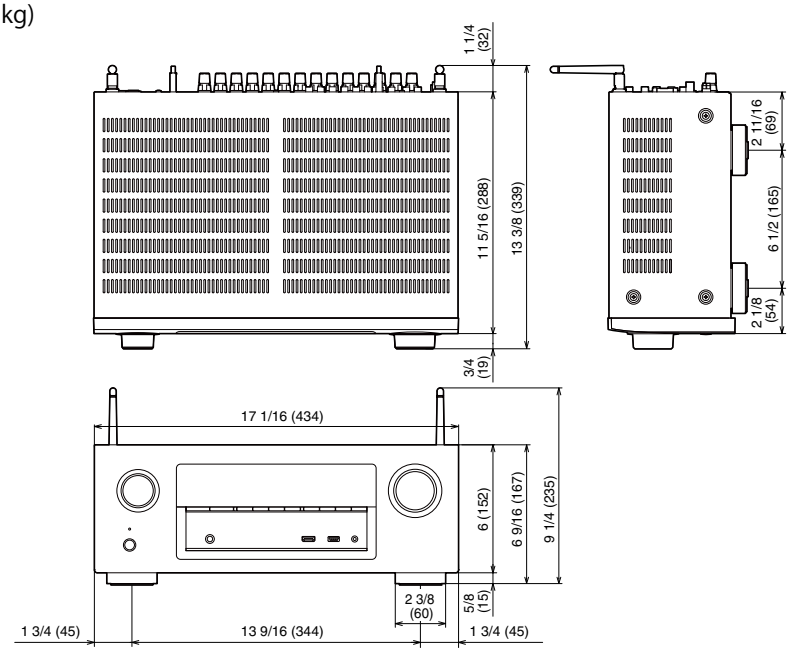
Power consumption in CEC standby mode : 0.5 W

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-X2200W

Unit : in. (mm)
Weight : 20 lb 12 oz (9.4 kg)



TECHNICAL SPECIFICATIONS FOR AVR-S910W

❑ Audio section

- **Power amplifier**

Rated output :

Front :

90 W + 90 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)
125 W + 125 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Center :

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

Surround :

90 W + 90 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)
125 W + 125 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Surround back :

90 W + 90 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.)
125 W + 125 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 : 100 dB (IHF-A, Direct mode)

❑ Video section

- **Color component video connector**

Input/output level and impedance : Y signal — 1 Vp-p, 75 Ω
P_B / C_B signal — 0.7 Vp-p, 75 Ω
P_R / C_R signal — 0.7 Vp-p, 75 Ω

Frequency response : 5 Hz - 60 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) **AM** 520 kHz - 1710 kHz (for E3)
Effective sensitivity :	**FM** 1.2 μV (12.8dBf) (for E3) **AM** 18 μV (for E3)
50 dB sensitivity :	MONO — 2.8 µV (20.2 dBf)
S/N ratio (IHF-A) :	MONO — 70 dB (for E3) STEREO — 67 dB (for E3)
Distortion :	MONO — 0.7 % (for E3) SRETEO — 1.0 % (for E3)

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

❑ Bluetooth section

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

Transmission power : Maximum 2.5 mW (Class 2)

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

Frequency band : 2.4 GHz band

Modulation scheme : FHSS (Frequency-Hopping Spread Spectrum)

Supported profiles : A2DP(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

Power consumption : 460 W

Power consumption in standby mode : 0.1 W

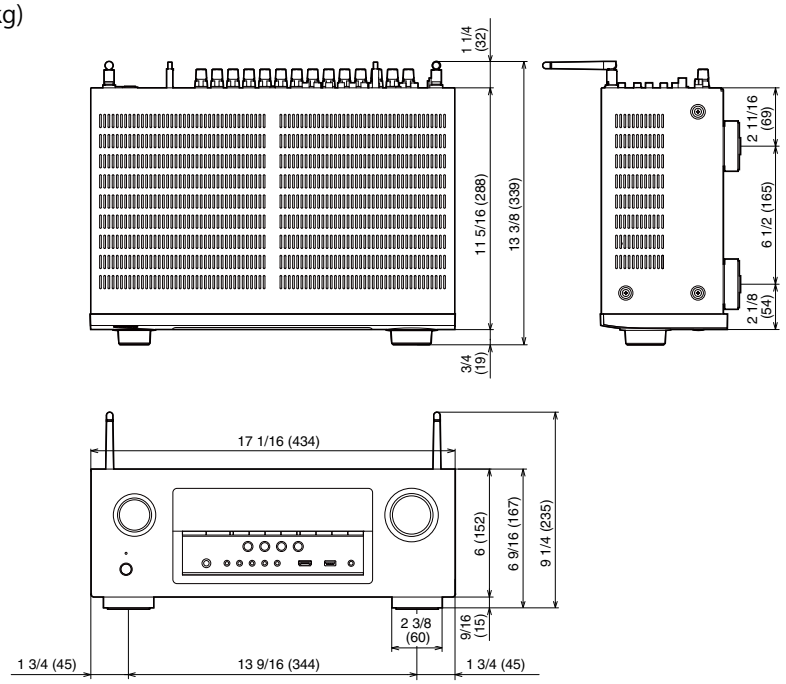
Power consumption in CEC standby mode : 0.5 W

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-S910W

Unit : in. (mm)
Weight : 20 lb 12 oz (9.4 kg)



CAUTION IN SERVICING (AVR-X2200W)

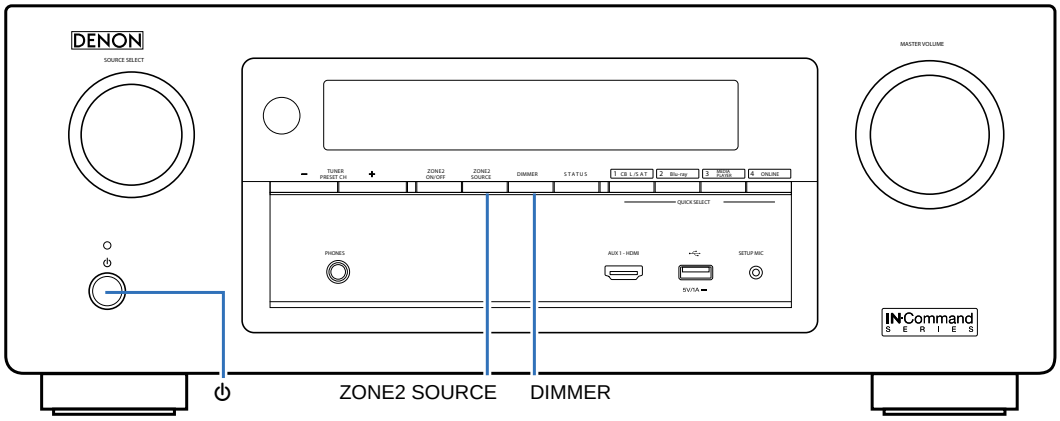
Initializing This Unit

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-X2200W



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
8U-110136S	:	EXTENSION UNIT KIT	:	1Sets

(See page 57)

CAUTION IN SERVICING (AVR-S910W)

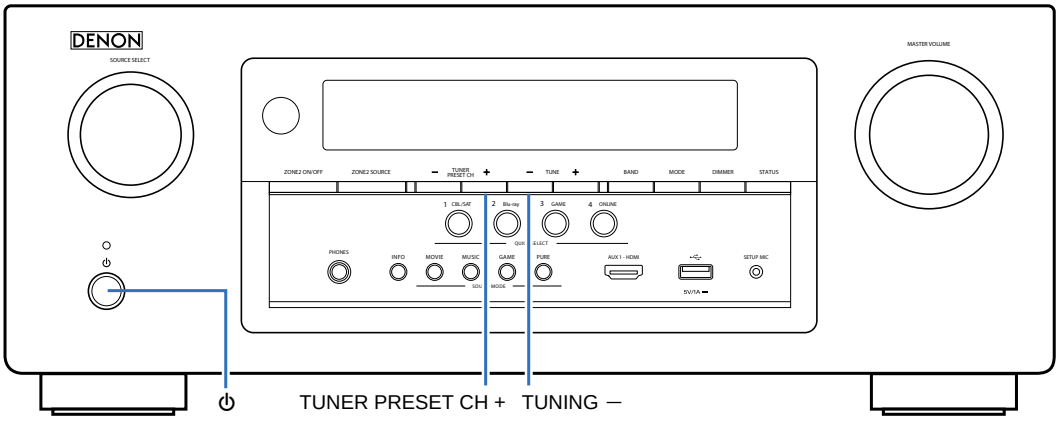
Initializing This Unit

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-S910W



JIG FOR SERVICING

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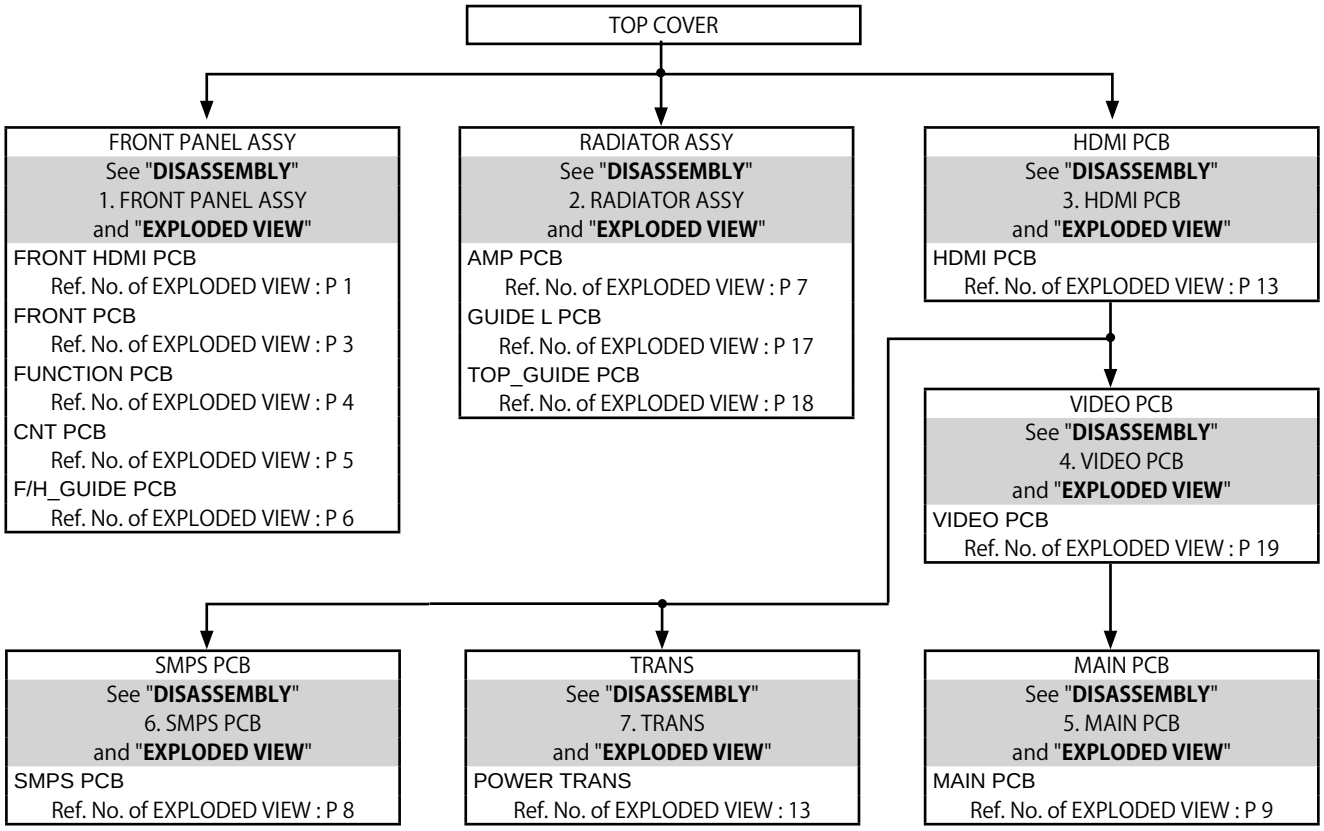
8U-110084S	:	EXTENSION UNIT KIT	:	1Sets
8U-110136S	:	EXTENSION UNIT KIT	:	1Sets

(See page 57)

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.

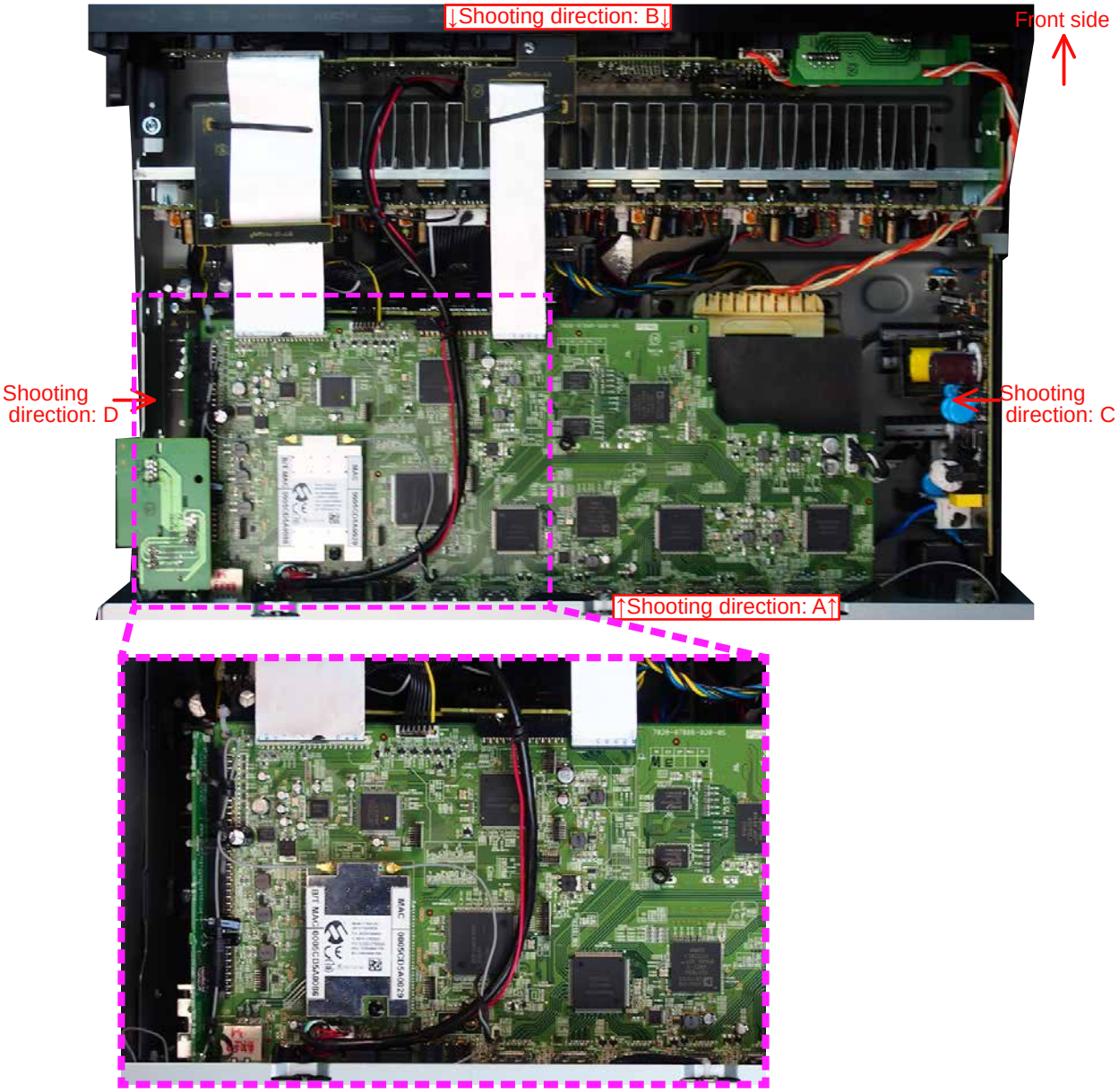


Explanatory Photos for DISASSEMBLY

- 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-X2200W E3 are used in this manual.

The viewpoint of each photograph

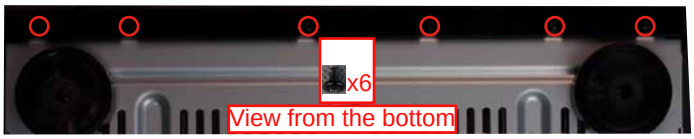
(Shooting direction : X) [View from the top]



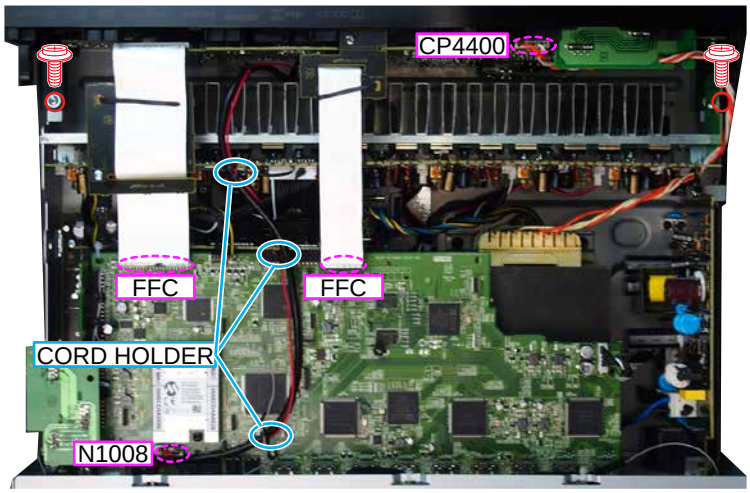
1. FRONT PANEL ASSY

Proceeding : TOP COVER → FRONT PANEL ASSY

(1) Remove the screws.



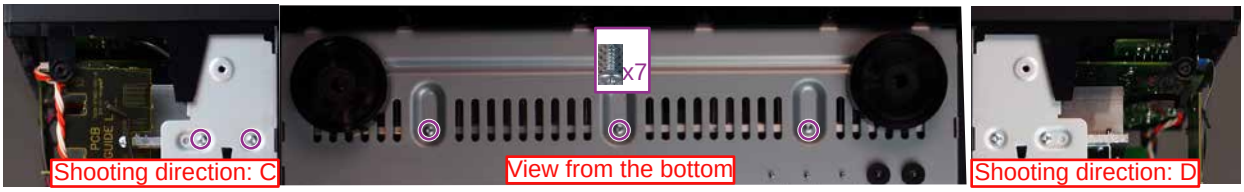
(2) Remove the screws. Remove the CORD HOLDERs and connector wires. Remove the FFC.



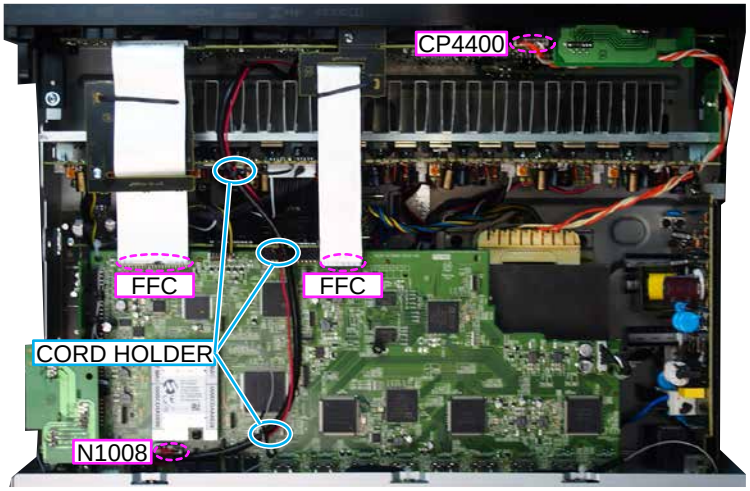
2. RADIATOR ASSY

Proceeding : TOP COVER → FRONT PANEL ASSY → RADIATOR ASSY

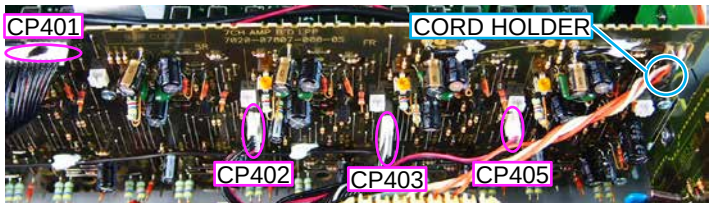
(1) Remove the screws.



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



(3) Remove the CORD HOLDERs and connector wires.

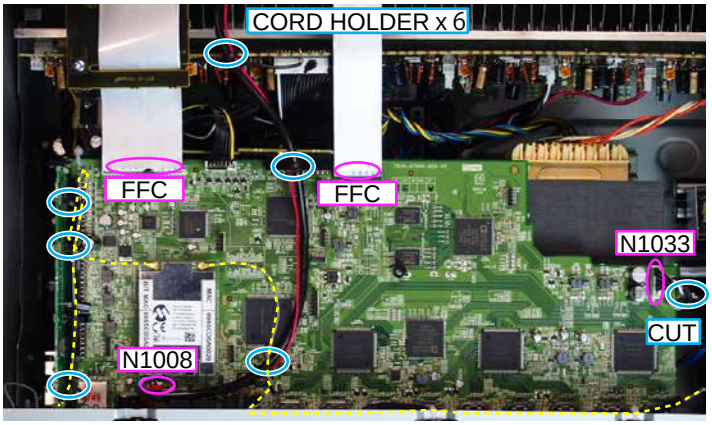


3. HDMI PCB

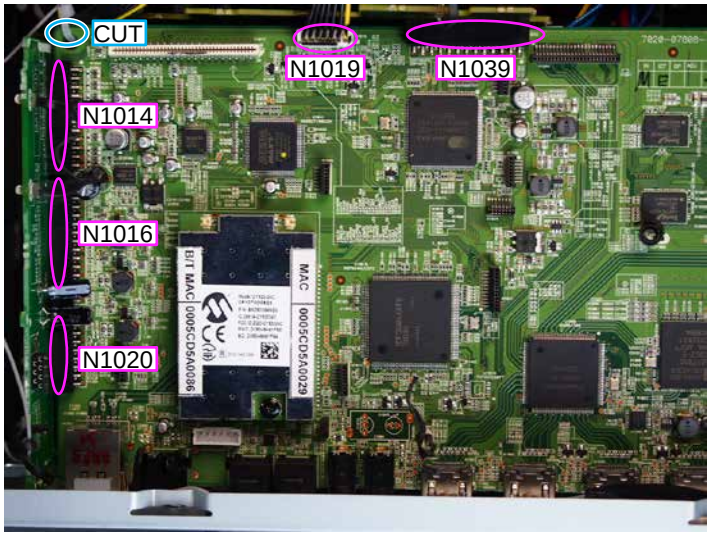
Proceeding : TOP COVER → HDMI PCB

(1) Remove the screws.

(2) Cut the wire clamps, then remove the CORD HOLDERs and connector wires. Remove the FFC.



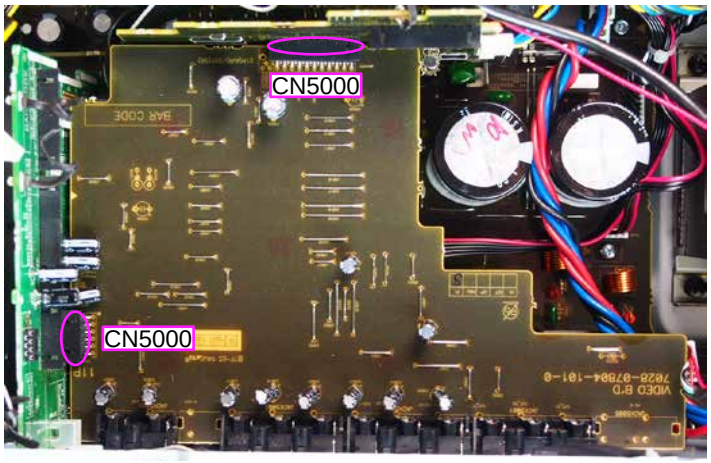
(3) Cut the wire clamp, then remove the connector.



4. VIDEO PCB

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

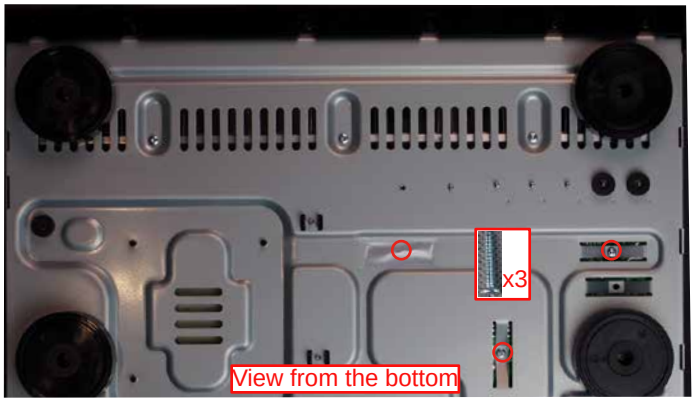
(1) Remove the connector.



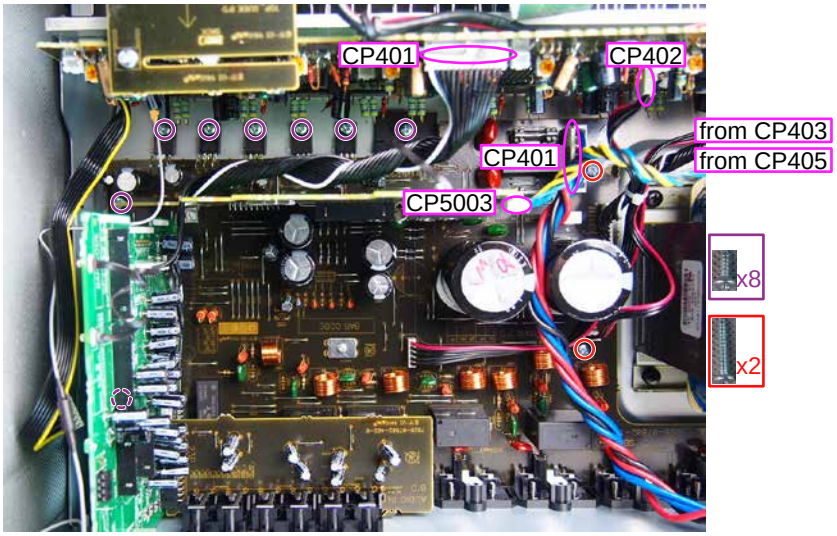
5. MAIN PCB

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

(1) Remove the screws.



(2) Remove the screws.



6. SMPS PCB

Proceeding : TOP COVER → **SMPS PCB**

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

7. TRANS

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

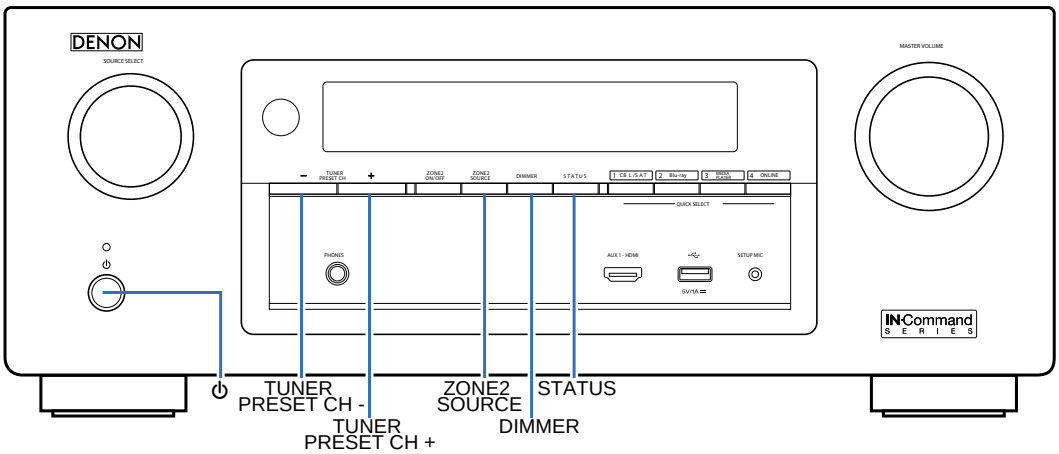
See "EXPLODED VIEW" for instructions on removing the transformer (TRANS).

SPECIAL MODE

Special mode setting button (for AVR-X2200W)

※ No. 1 - 6 : While holding down buttons "**A**", "**B**" and "**C**" simultaneously, press the power button to turn on the power.
※ No. 7 : While holding down buttons "**A**" and "**B**" simultaneously, insert the AC plug into the wall outlet to turn on the power.

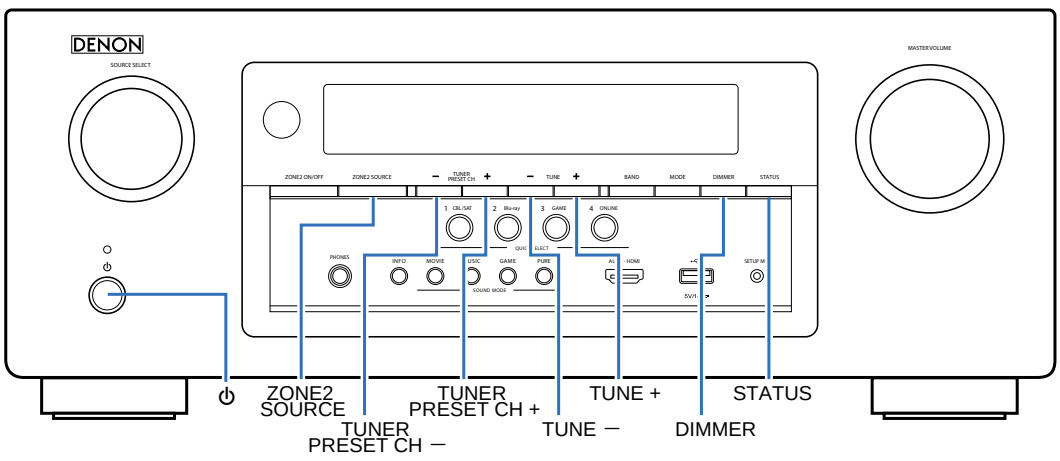
No.	Mode	Button A	Button B	Button C	Descriptions
1	Version Display (u-COM / DSP Error Display)	DIMMER	STATUS	-	Displays the version of firmware such as the main firmware or DSP. Errors that have occurred are displayed. (See page 24)
2	Selecting the Mode for Service-related	ZONE2 SOURCE	DIMMER	STATUS	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 50)
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 30)
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 54)
2-4	TUNER STEP Mode (E3 and E2 model only)	↑	-	-	Enables reception STEP of the ANALOG TUNER to be changed. (See page 53)
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 52)
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 28) PANEL LOCK MODE : No. 5 - 1 - No. 5 - 3
5-1	PANEL LOCK Mode (with Volume)	↑	-	-	This function disables reception from all keys and encoders on the front panel except the power button (including the volume).
5-2	PANEL LOCK Mode (without Volume)	↑	-	-	This function disables reception from all keys and encoders on the front panel except the power button and volume encoder.
5-3	PANEL LOCK mode is turned off	↑	-	-	This function releases the PANEL LOCK.
6	Protection Pass Mode	TUNER PRESET CH +	ZONE2 SOURCE	STATUS	Enables the power to be turned on when protection detection is disabled. (See page 55)
7	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 62)



Special mode setting button (AVR-S910W)

※ No. 1 - 6 : While holding down buttons "**A**", "**B**" and "**C**" simultaneously, press the power button to turn on the power.
※ No. 7 : 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 24)
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 50)
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 30)
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 54)
2-4	TUNER STEP Mode (E3 and E2 model only)	↑	-	-	Enables reception STEP of the ANALOG TUNER to be changed. (See page 53)
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 52)
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 28) PANEL LOCK MODE : No. 5 - 1 - No. 5 - 3
5-1	PANEL LOCK Mode (with Volume)	TUNER PRESET CH +	-	-	This function disables reception from all keys and encoders on the front panel except the power button (including the volume).
5-2	PANEL LOCK Mode (without Volume)	↑	-	-	This function disables reception from all keys and encoders on the front panel except the power button and volume encoder.
5-3	PANEL LOCK mode is turned off	↑	-	-	This function releases the PANEL LOCK.
6	Protection Pass Mode	ZONE2 SOURCE	TUNER PRESET CH +	TUNE +	Enables the power to be turned on when protection detection is disabled. (See page 55)
7	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 62)



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 GUI SFLASH → ⑧ Ethernet 1st Boot Loader, Hardware ID → ⑨ Ethernet 2nd Boot Loader, Rhapsody Flag → ⑩ Ethernet IMAGE → ⑪ Ethernet MAC ADDRESS information → ⑫ BT MAC Address information

① Model destination information :

FLD	A	V	R	-	S	9	1	0	W		E	3				*
FLD	A	V	R	-	X	2	2	0	0	W		E	3			*
FLD	A	V	R	-	X	2	2	0	0	W		E	2			*
FLD	A	V	R	-	X	2	2	0	0	W		E	1	C		*
FLD	A	V	R	-	X	2	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 :

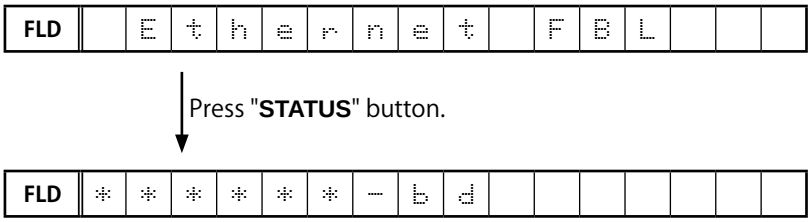
FLD		A	u	d	i	o		P	L	D	:	*	*	.	*	*

⑦ GUI SFLASH :

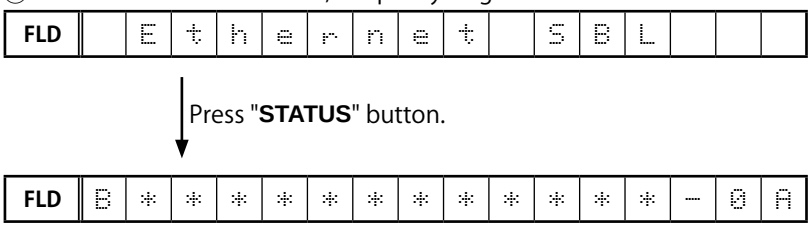
FLD		G	U	I				:	@	@	$	\	*	*	*	*

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

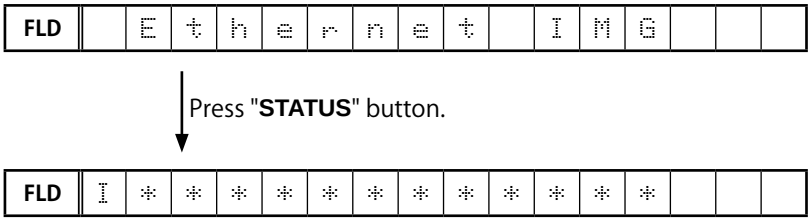
⑧ Ethernet 1st Boot Loader, Hardware ID :



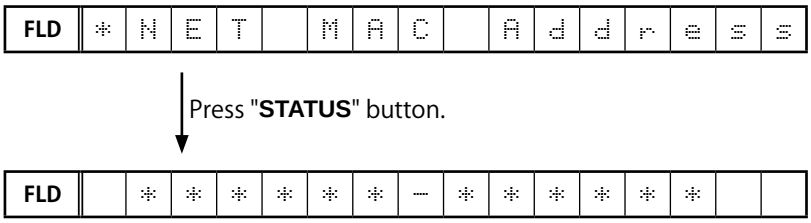
⑨ Ethernet 2nd Boot Loader, Rhapsody Flag :



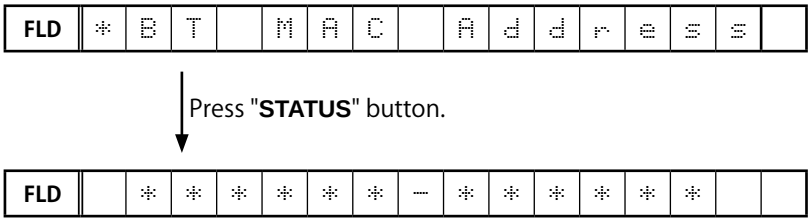
⑩ Ethernet IMAGE :



⑪ Ethernet MAC ADDRESS information：



⑫ BT MAC ADDRESS information：



1.4. 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.
Item is displayed. The priority order is ②, ③, ④, ⑤, ⑥, ⑦, 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(R1524 / 1525 HDMI PCB). •Write the firmware for the correct region.
② IP SCALER NG	An error occurs in Loopback Test of the DDR memory which is performed during the initial setting of i/p Scaler (ADV8003).	IP SCALER ERR 01	•Check the circuits around the IP SCALER (U1026, HDMI PCB) and DDR2 (U1028/1029). If there appear to be no problems, U1026 or U1028/1029 is faulty.
	During the initial setting of i/p Scaler (ADV8003) , there is not the reply of the Loopback Test result of the DDR memory .	IP SCALER ERR 02	
③ 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.
④ 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.
⑤ 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 (U1073, HDMI 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	
⑥ 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

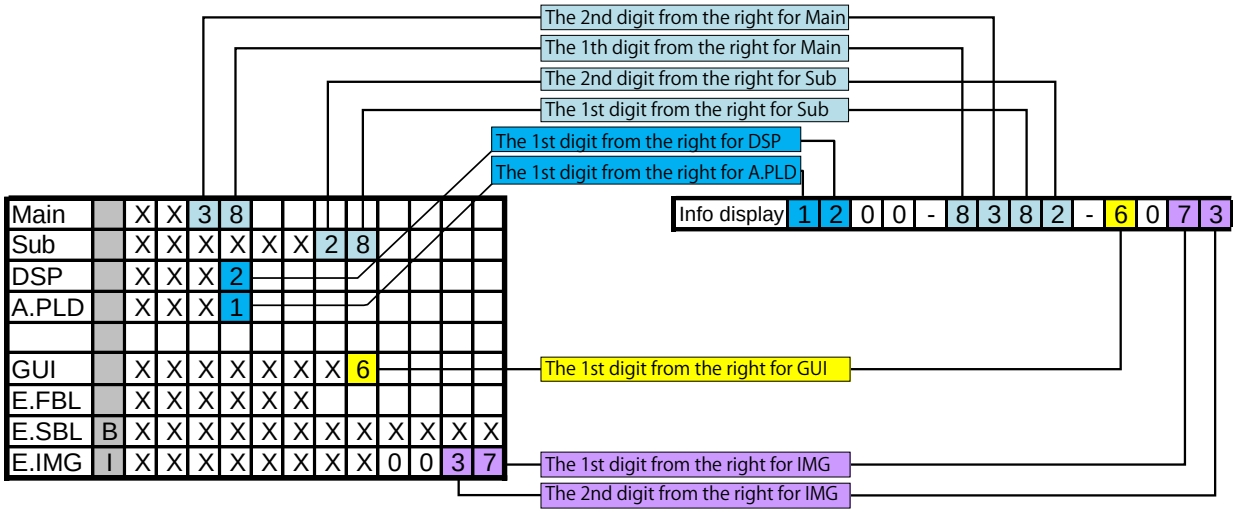
Follow the steps below to display the firmware information.

(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.

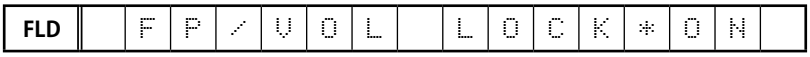
2.2. Starting up

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

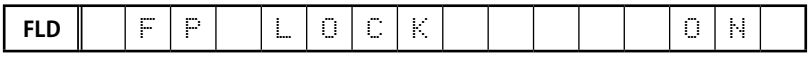
The information shown on the display switches each time the "**TUNER PRESET CH+**" button is pressed.
Press the "**STATUS**" button to set the currently displayed mode and restart the device.
The setting with "*" is selected for each mode.

①



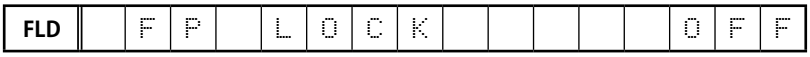
The buttons on the unit and the master volume knob does not function.

②



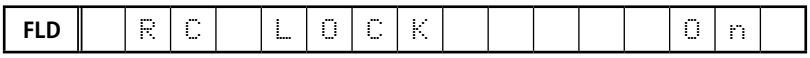
The buttons on the unit does not function.

③



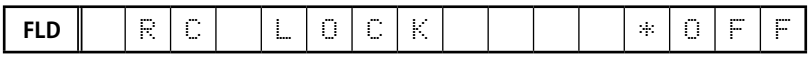
The PANEL LOCK mode is turned off.

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, or 232C standby clear mode.

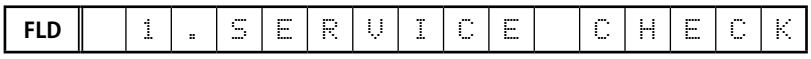
3.2. Starting up

AVR-X2200W
While holding down buttons "**ZONE2 SOURCE**", "**DIMMER**" and "**STATUS**" simultaneously, press the power button to turn on the power.
AVR-S910W
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

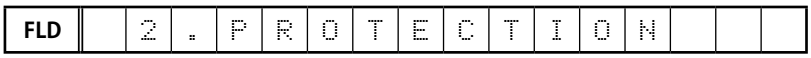
The information shown on the display switches each time the "**TUNER PRESET CH+**" button is pressed.
Press the "**STATUS**" button to set the currently displayed mode and restart the device.

①



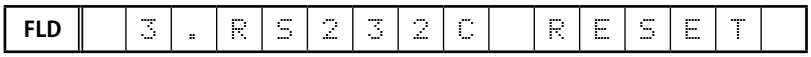
Service Path Check Mode：
The Video and Audio paths can be checked.
This function is convenient for confirming problem paths in the product and checking the paths after repairing.

②



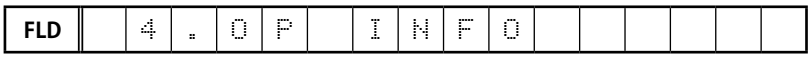
The protection history can be checked.

③



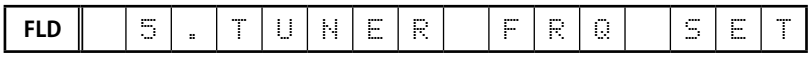
Switches from 232C standby mode to normal standby mode.

④



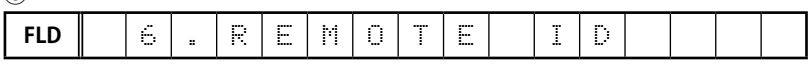
Operation Info for the unit can be checked.

⑤



Enables reception STEP of the ANALOG TUNER to be changed.

⑥



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-X2200W
While holding down buttons "**ZONE2 SOURCE**", "**DIMMER**" and "**STATUS**" simultaneously, press the power button to turn on the power.
AVR-S910W
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 ►

3.4.6. 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 ALL Speaker = 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 OUT output (Front L/R, Center, Surround L/R, Surround Back L/R) (※ 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)
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)

3.4.5. Confirmation items for the video system

See the block diagram fig.XXth.

	Paths to be confirmed	Display	Settings	What to confirm
1	Analog Video pass **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 (S910 / X2200E3 ONLY) (※ The input source can be switched to any source except CBL/SAT.)
2	Video Convert (Analog or HDMI ⇒ HDMI) **fig.08**	V02:V.CONVERT	Input Source : CBL/SAT Video Convert (IP Scaler) : ON, All sources IP Scaler : "Analog & HDMI", All sources Resolution : "Auto", All sources MAIN ZONE ON ZONE2 OFF	・CVBS input ⇒ IP Scaler ⇒ HDMI output. ・Component input ⇒ IP Scaler ⇒ HDMI output. ・HDMI input ⇒ IP Scaler ⇒ HDMI output. ・ETHERNET input ⇒ IP Scaler ⇒ HDMI output. (※ The input source can be switched to any source except CBL/SAT.)
3	HDMI pass (MAIN ZONE) **fig.09**	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.)
4	HDMI CEC (Control Monitor : HDMI Monitor1) **fig.10**	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).
5	HDMI Audio (Audio : AVR) **fig.11a** **fig.11b**	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.)
6	HDMI Audio (Audio : TV) **fig.12**	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.)
7	GUI **fig.13**	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

ANALOG AUDIO DIAGRAM

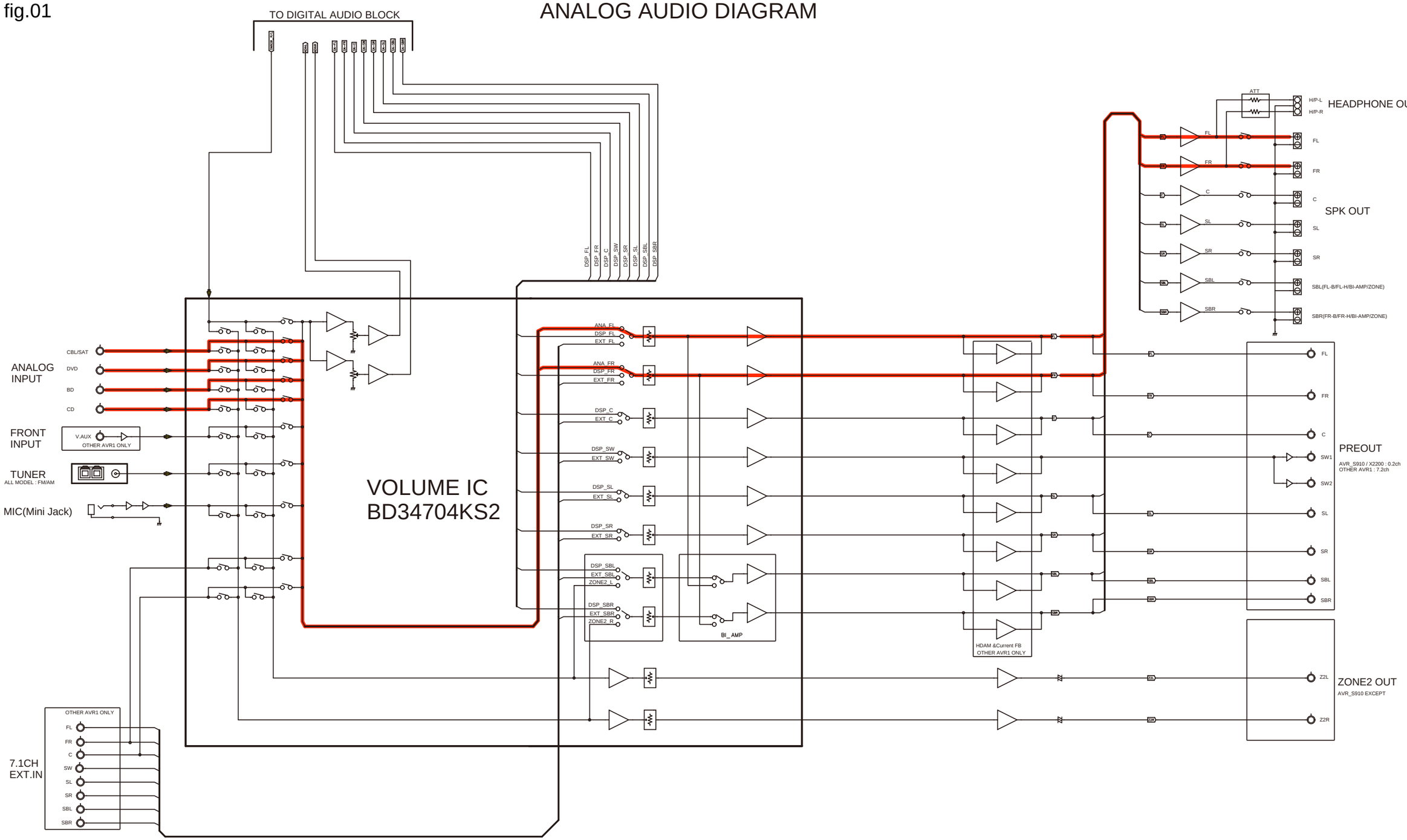
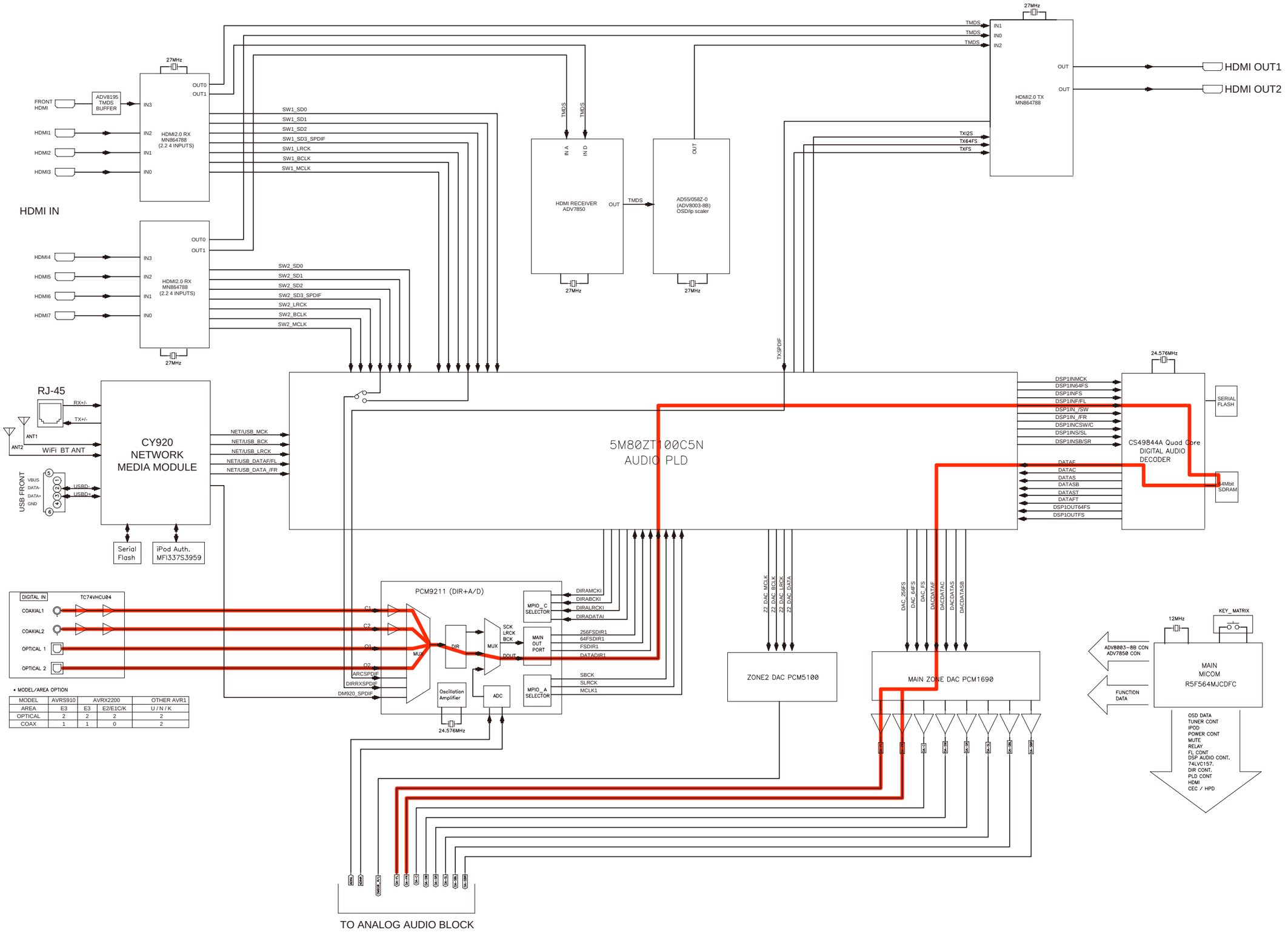


fig.02a

DIGITAL AUDIO DIAGRAM



* MODEL/AREA OPTION

MODEL	AVRS910	AVRX2200		OTHER AVR1
AREA	E3	E3	E2/E1C/K	U / N / K
OPTICAL	2	2	2	2
COAX	1	1	0	2

fig.02b

ANALOG AUDIO DIAGRAM

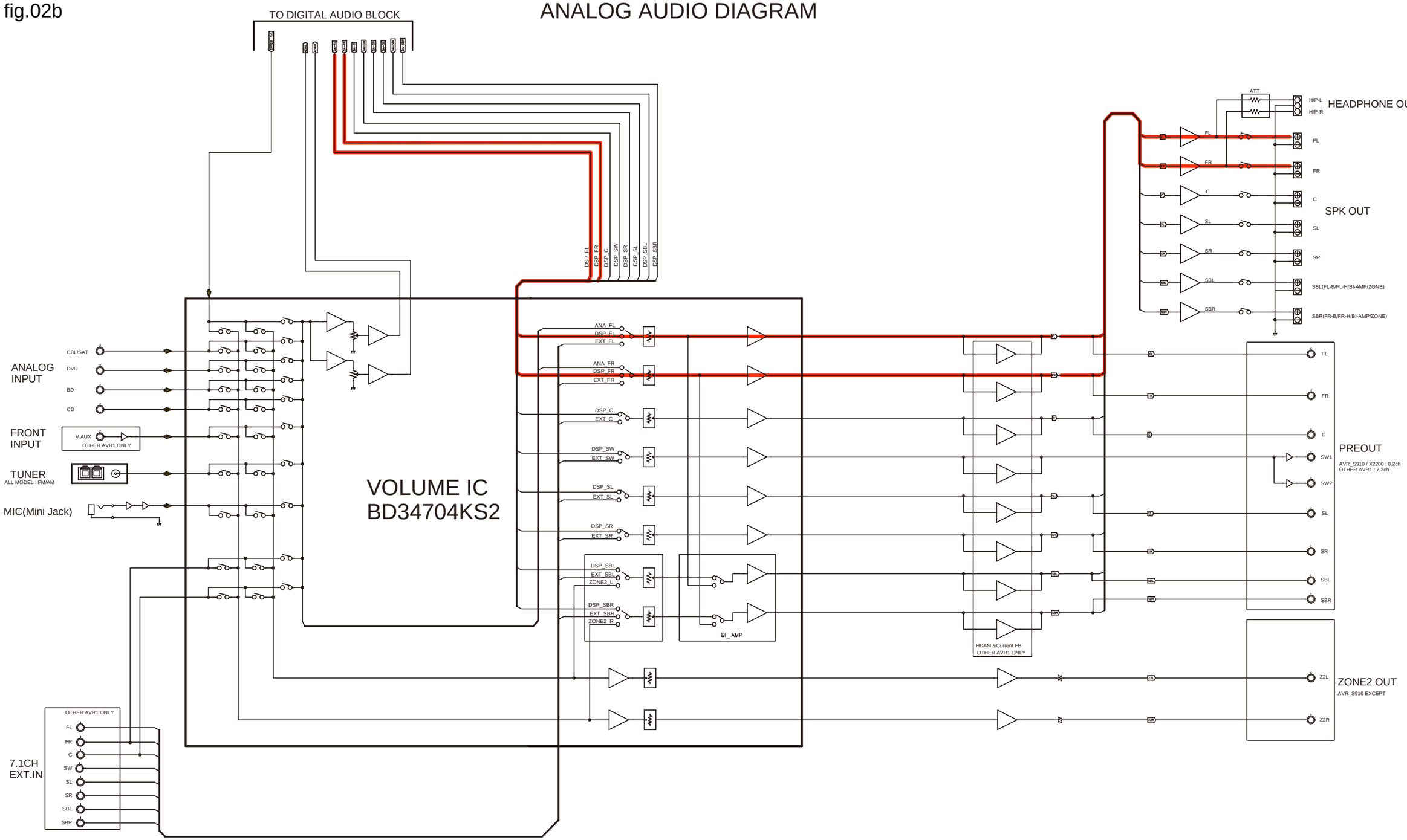
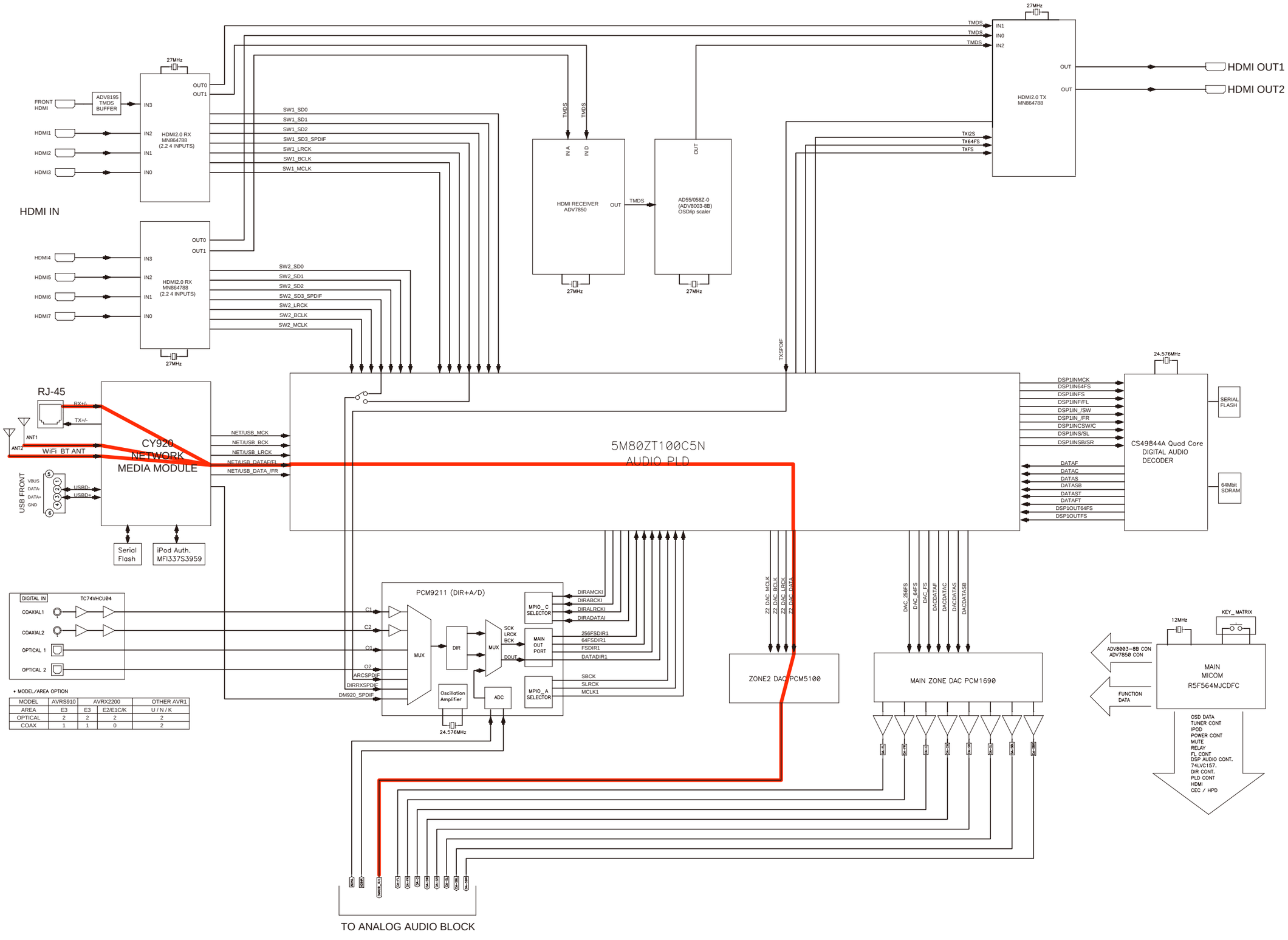


fig.03a

DIGITAL AUDIO DIAGRAM



* MODEL/AREA OPTION

MODEL	AVRS910	AVRX2200		OTHER AVR1
AREA	E3	E3	E2/E1C/K	U / N / K
OPTICAL	2	2	2	2
COAX	1	1	0	2

fig.03b

ANALOG AUDIO DIAGRAM

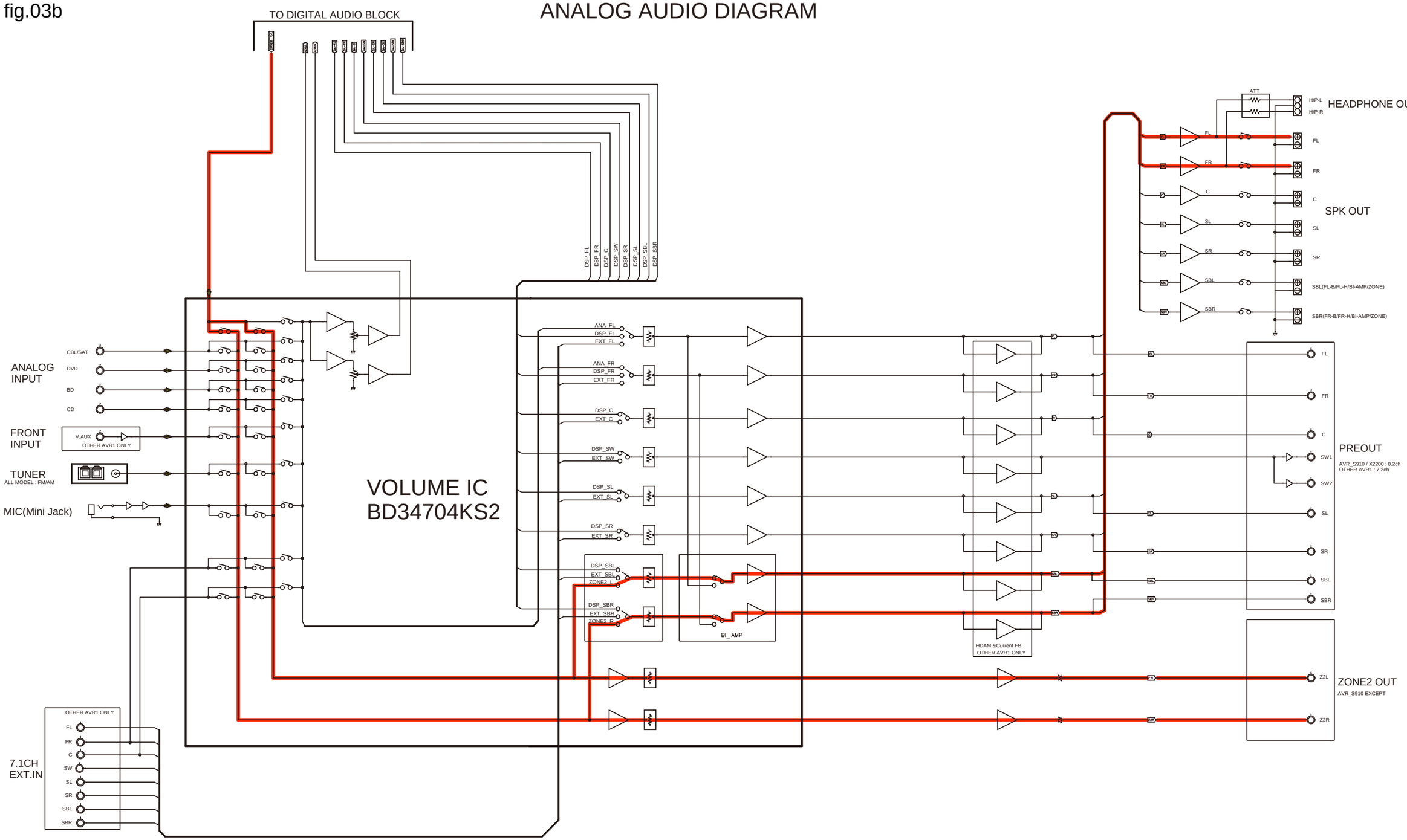
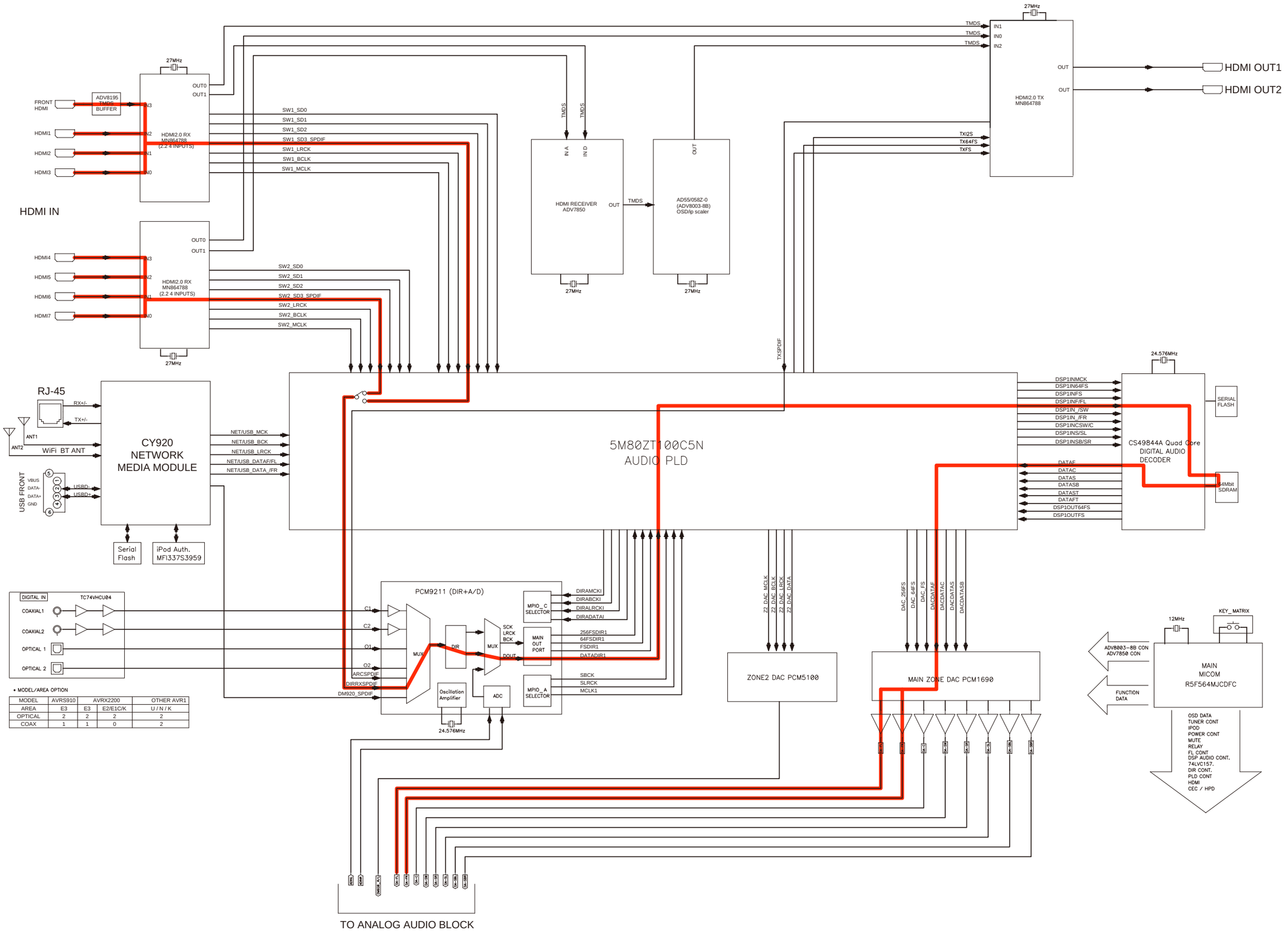


fig.04a

DIGITAL AUDIO DIAGRAM



* MODEL/AREA OPTION

MODEL	AVRS910	AVRX2200		OTHER AVR1
AREA	E3	E3	E2/E1C/K	U / N / K
OPTICAL	2	2	2	2
COAX	1	1	0	2

fig.04b

ANALOG AUDIO DIAGRAM

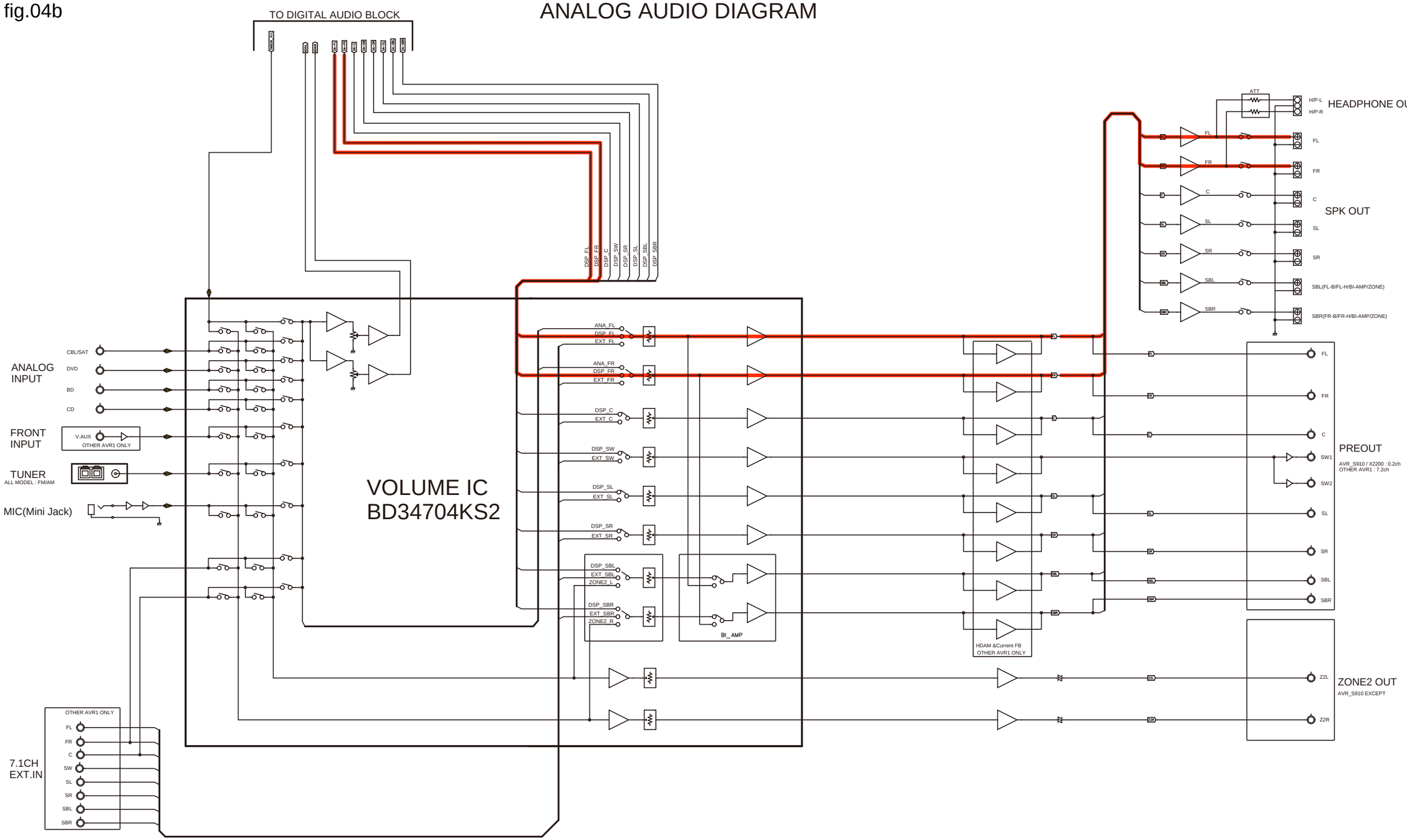
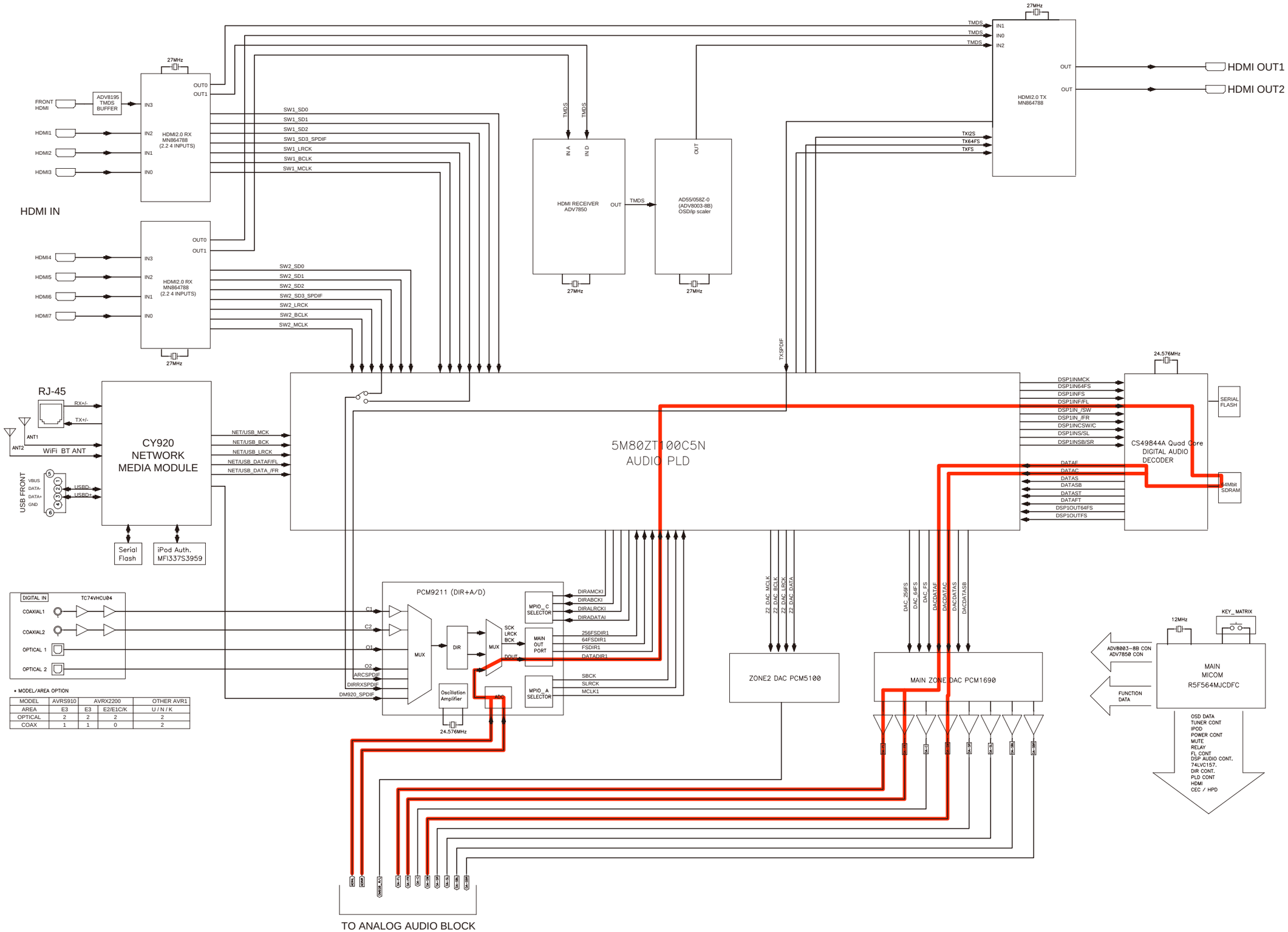


fig.05a

DIGITAL AUDIO DIAGRAM



• MODEL/AREA OPTION

MODEL	AVRS910	AVRX2200		OTHER AVR1
AREA	E3	E3	E2/E1C/K	U / N / K
OPTICAL	2	2	2	2
COAX	1	1	0	2

fig.05b

ANALOG AUDIO DIAGRAM

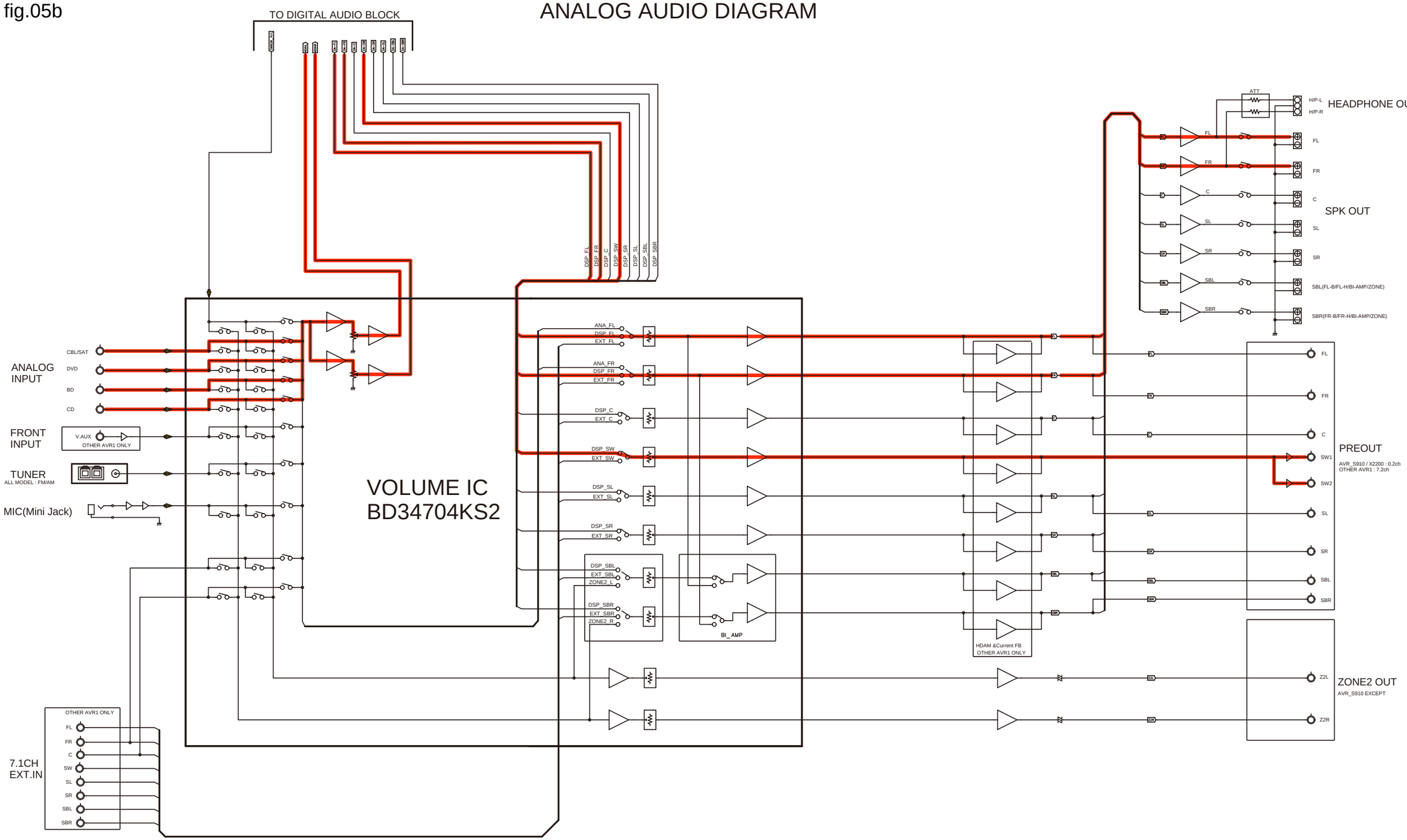


fig.06

ANALOG AUDIO DIAGRAM

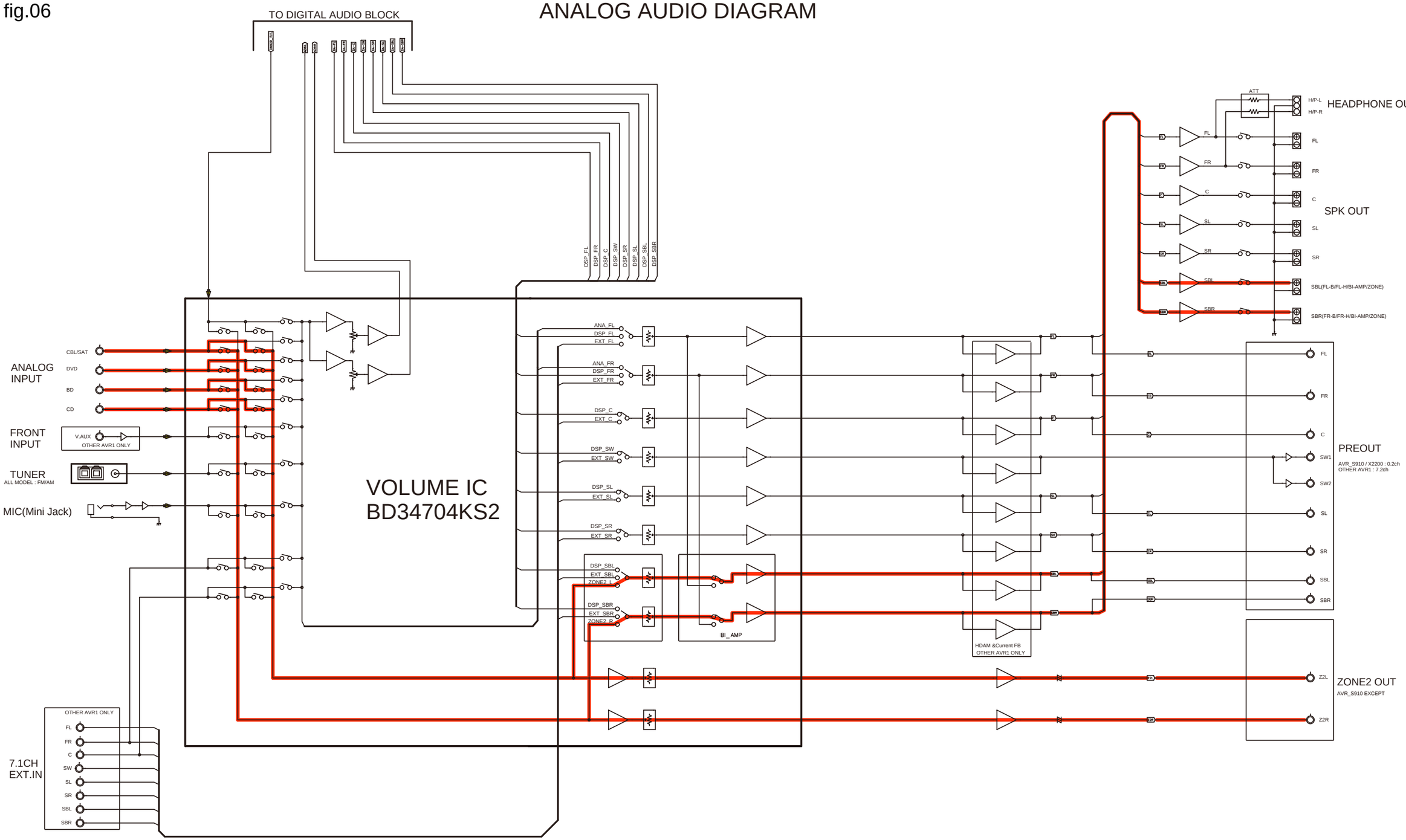
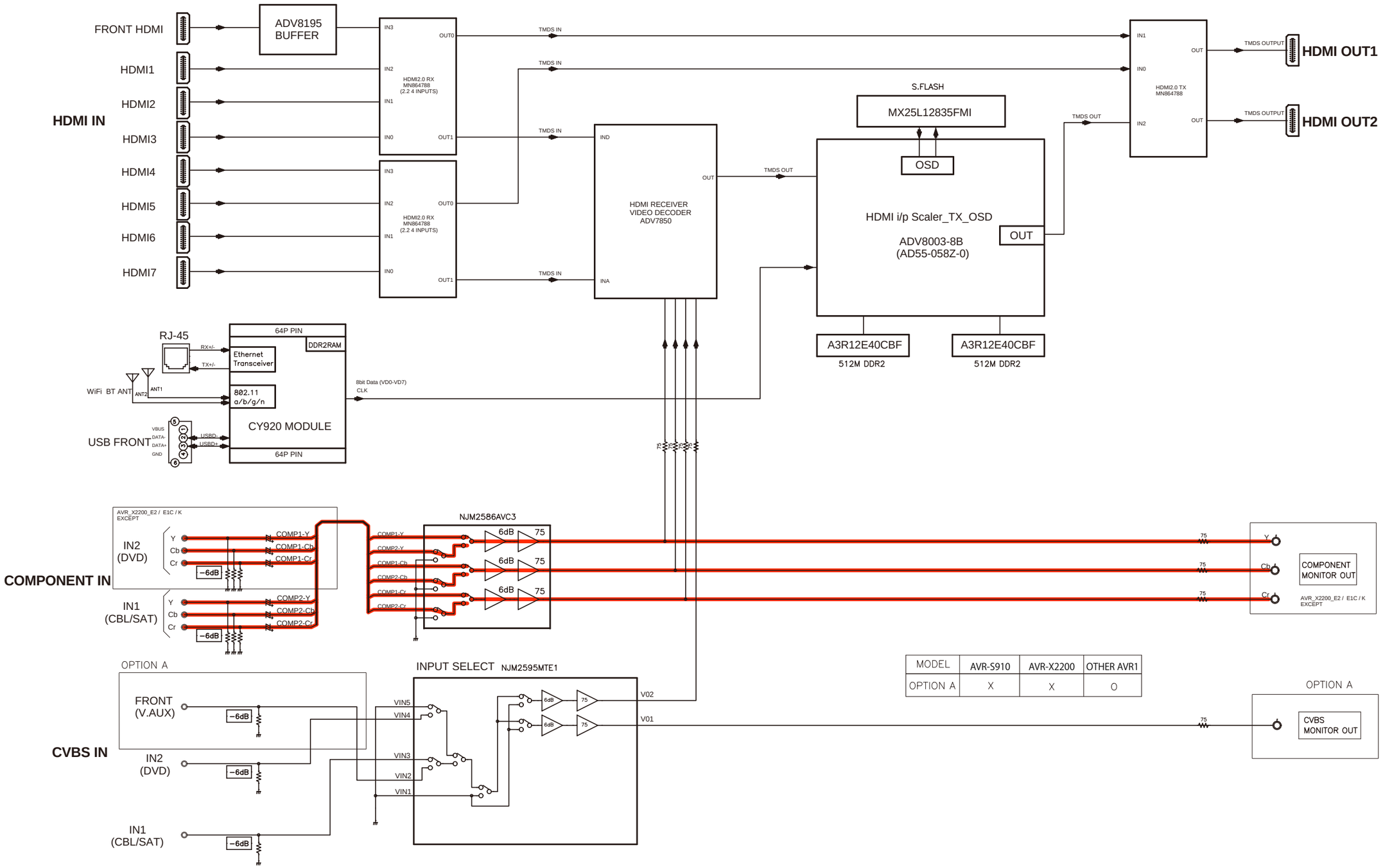


fig.07

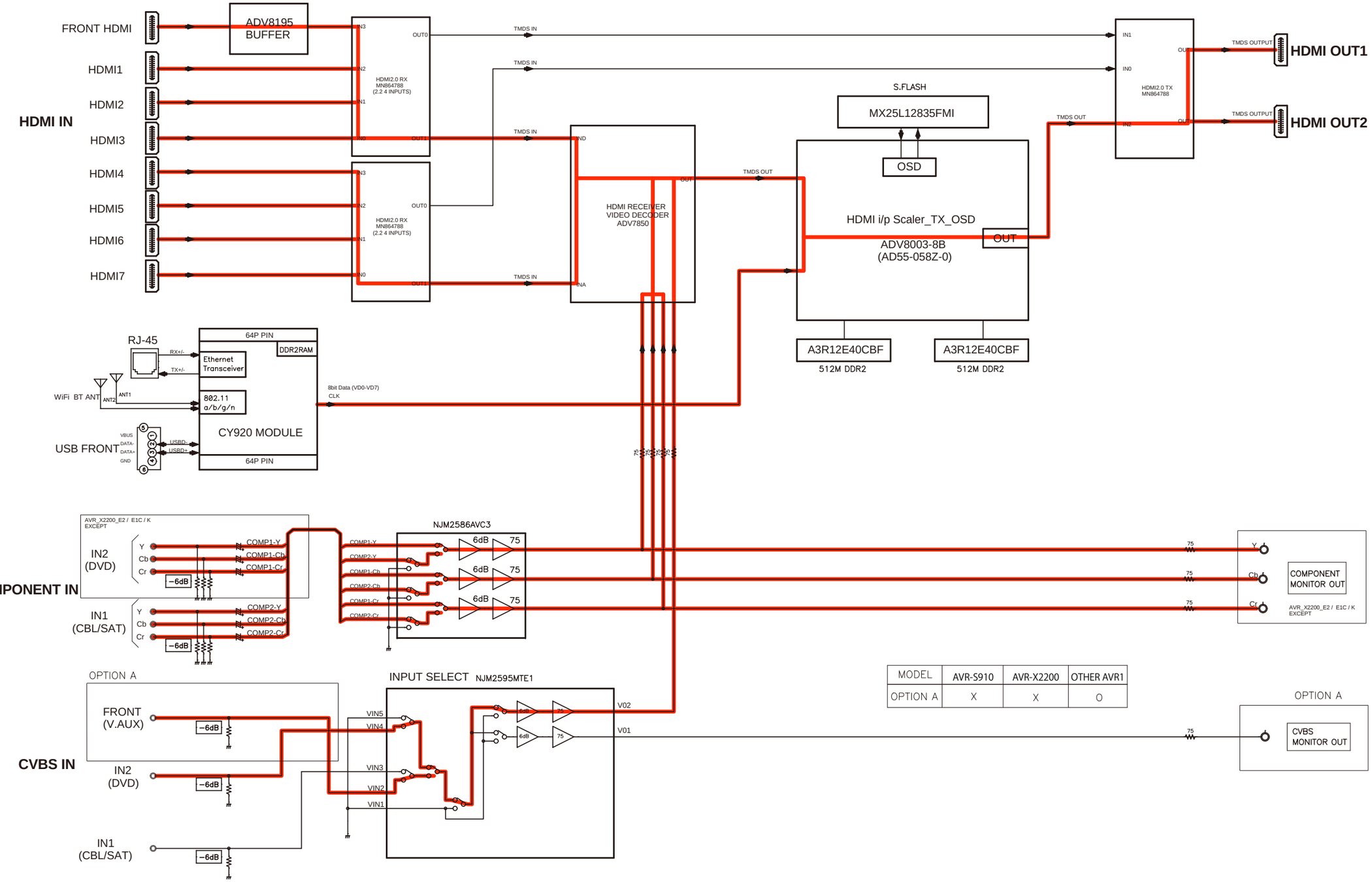
VIDEO DIAGRAM



MODEL	AVR-S910	AVR-X2200	OTHER AVR1
OPTION A	X	X	O

fig.08

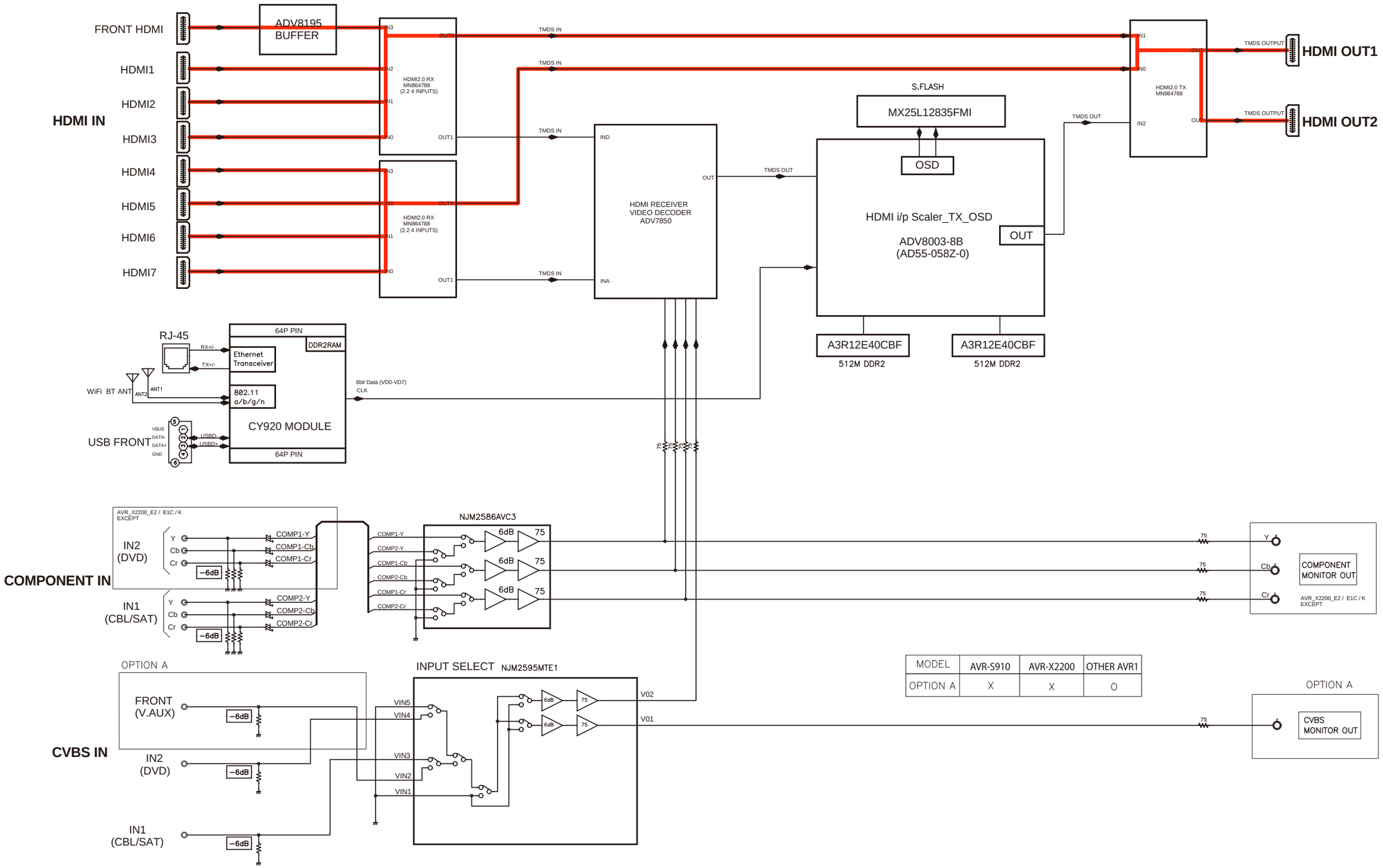
VIDEO DIAGRAM



MODEL	AVR-S910	AVR-X2200	OTHER AVR1
OPTION A	X	X	O

fig.09

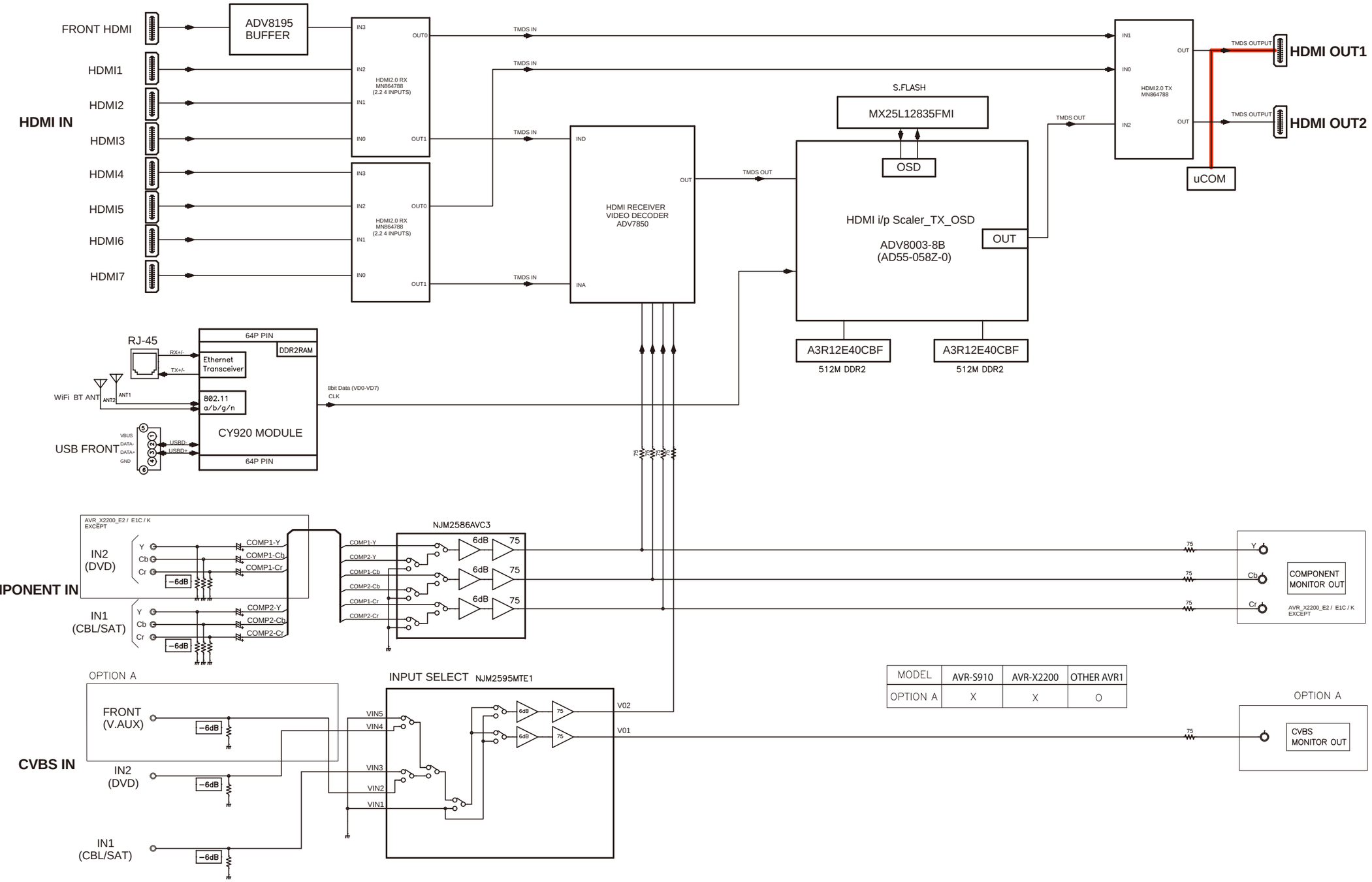
VIDEO DIAGRAM



MODEL	AVR-S910	AVR-X2200	OTHER AVR1
OPTION A	X	X	O

fig.10

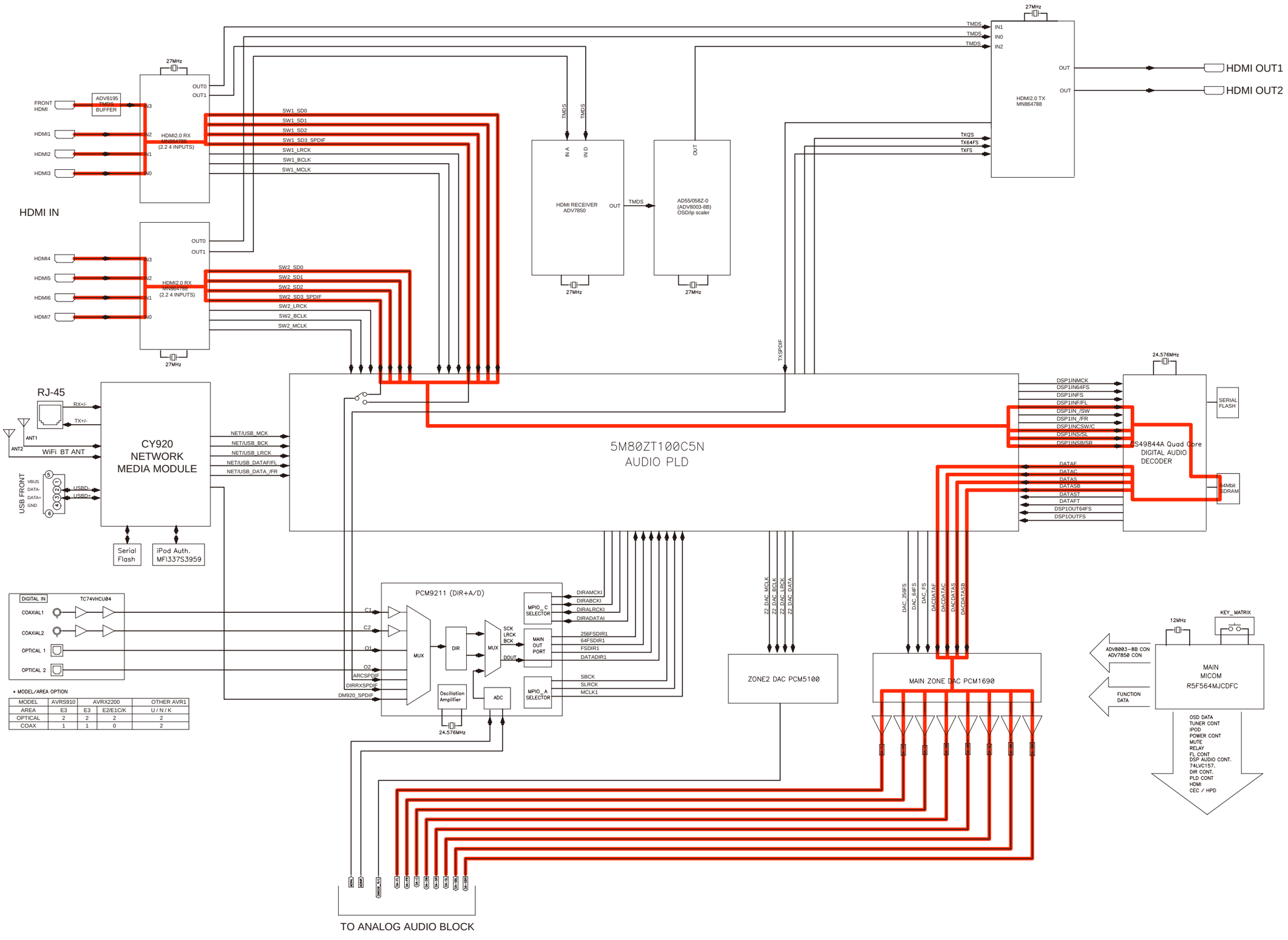
VIDEO DIAGRAM



MODEL	AVR-S910	AVR-X2200	OTHER AVR1
OPTION A	X	X	O

fig.11a

DIGITAL AUDIO DIAGRAM



• MODEL/AREA OPTION

MODEL	AVRS910	AVRX2200		OTHER AVR1
AREA	E3	E3	E2/E1C/K	U / N / K
OPTICAL	2	2	2	2
COAX	1	1	0	2

fig.11b

ANALOG AUDIO DIAGRAM

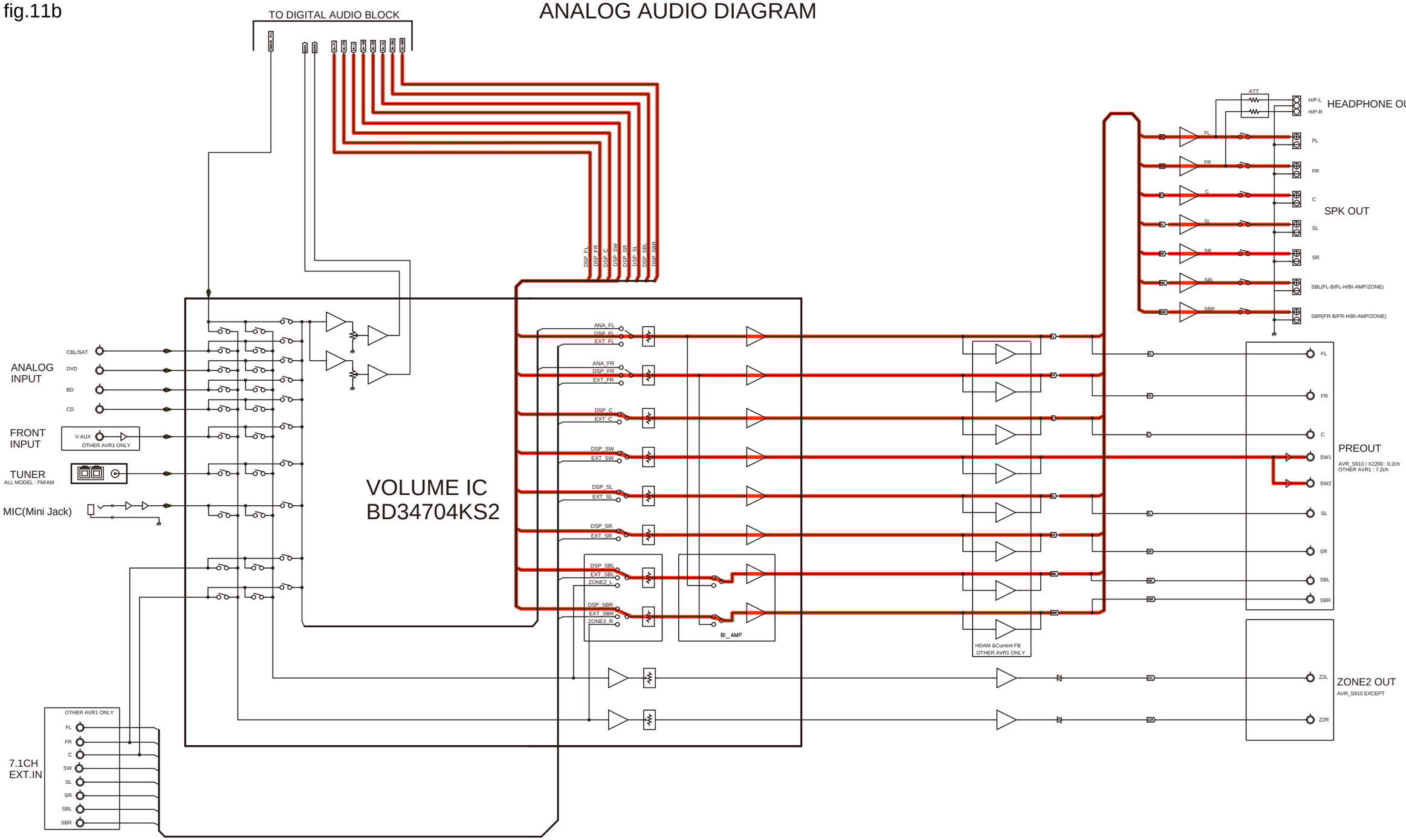
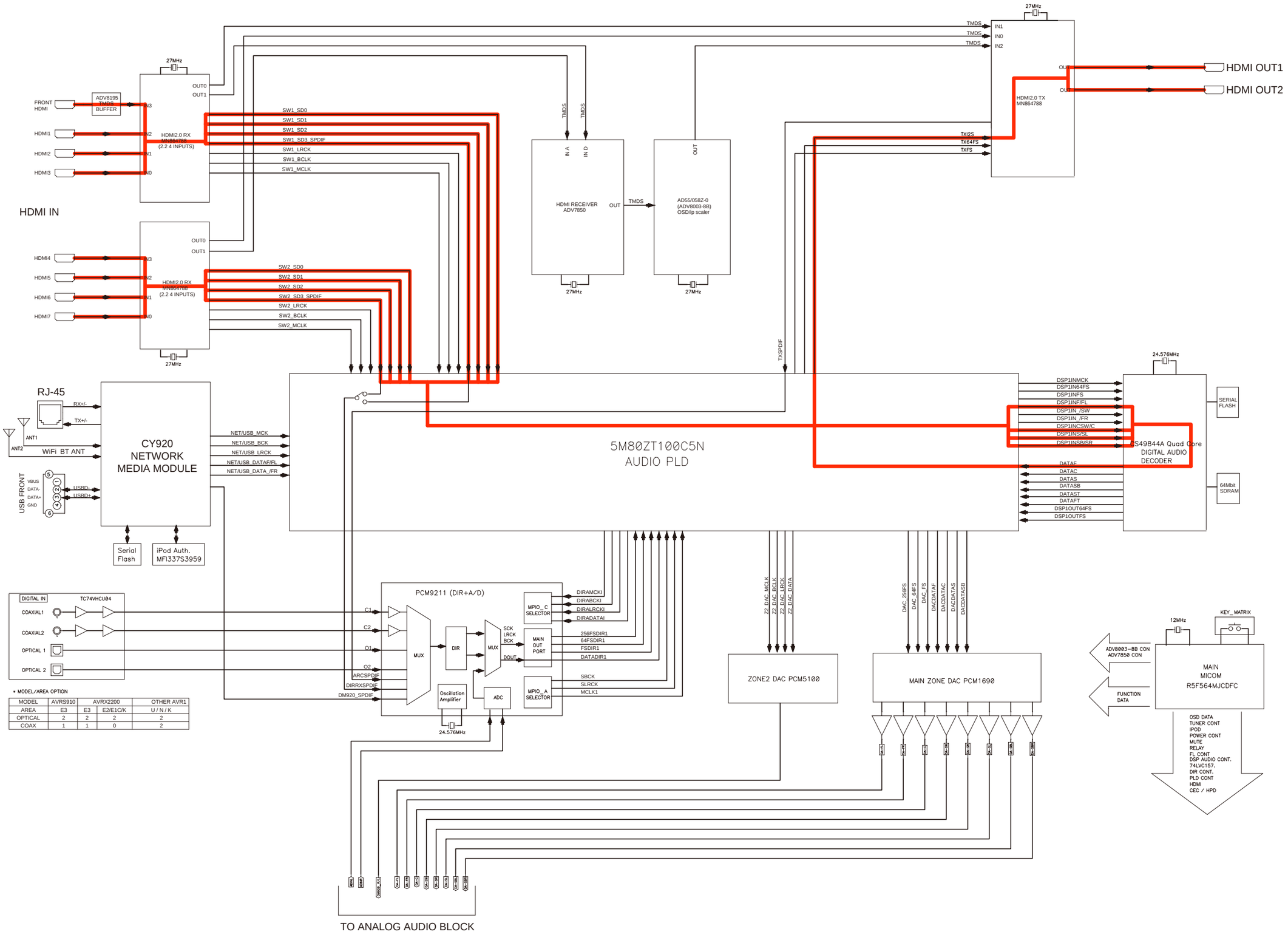


fig.12

DIGITAL AUDIO DIAGRAM

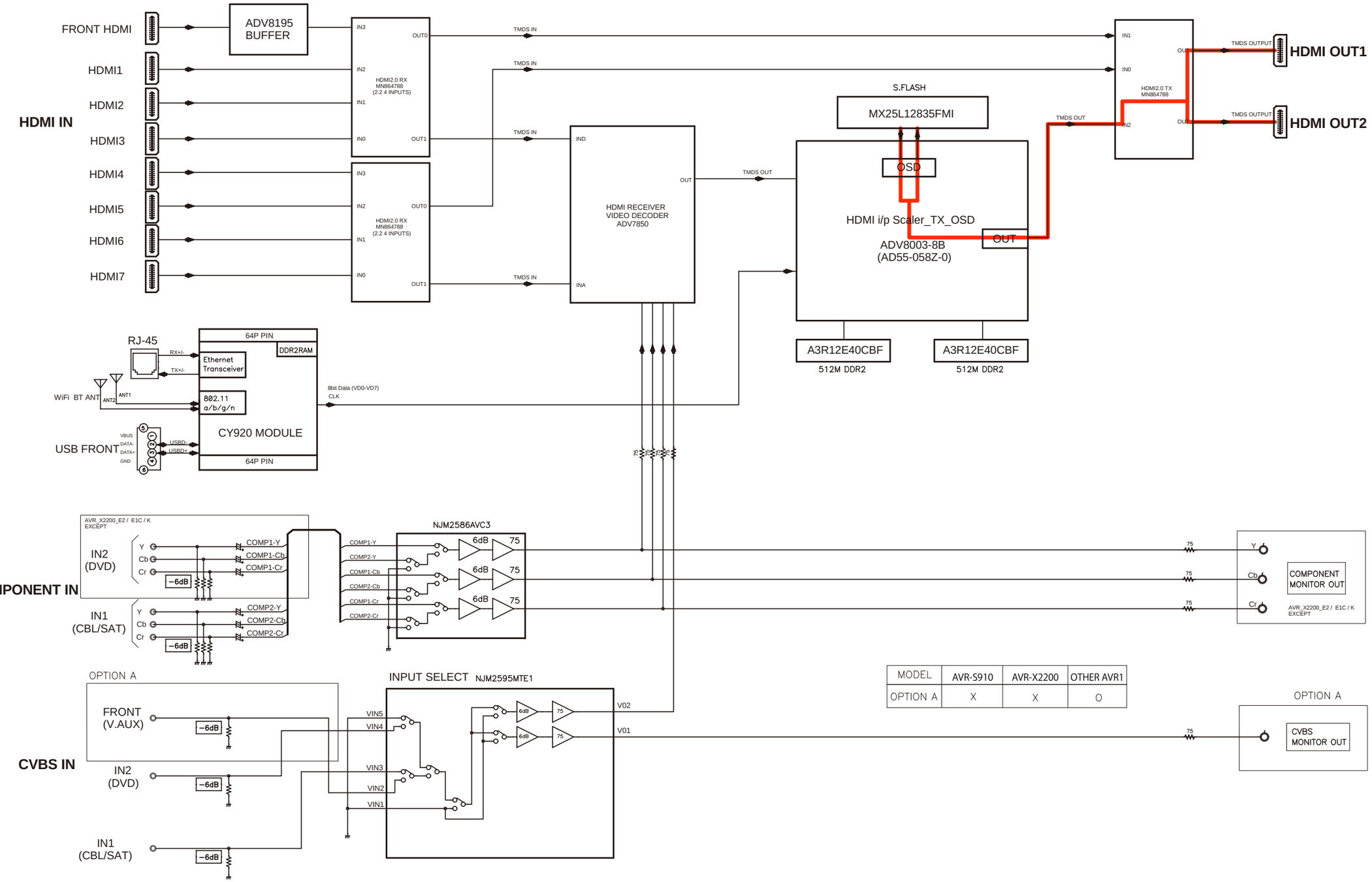


• MODEL/AREA OPTION

MODEL	AVRS910	AVRX2200		OTHER AVR1
AREA	E3	E3	E2/E1C/K	U / N / K
OPTICAL	2	2	2	2
COAX	1	1	0	2

fig.13

VIDEO DIAGRAM



MODEL	AVR-S910	AVR-X2200	OTHER AVR1
OPTION A	X	X	O

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-X2200W
· While holding down buttons "**ZONE2 SOURCE**", "**DIMMER**" and "**STATUS**" simultaneously, press the power button to turn on the power.
AVR-S910W
· 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 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	NO PROTECT													

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

FLD	PRT:ASO													

Cause : A short circuit occurred between the speaker terminals, or speakers with an impedance outside the rating were connected.
DC output of the power amplifier is abnormal.
Note : A short circuit occurred between the speaker terminals, or speakers with an impedance outside the rating were connected.
If the power is turned on in the abnormal state, protection is activated after around 6 seconds and the power is turned off.

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

FLD	PRT:DC													

Cause : A short circuit occurred between the speaker terminals, or speakers with an impedance outside the rating were connected.
DC output of the power amplifier is abnormal.
Note : A short circuit occurred between the speaker terminals, or speakers with an impedance outside the rating were connected.
If the power is turned on in the abnormal state, protection is activated after around 6 seconds and the power is turned off.

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

FLD	PRT:THERMAL A													
FLD	PRT:THERMAL B													
FLD	PRT:THERMAL E													
FLD	PRT:THERMAL F													

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)

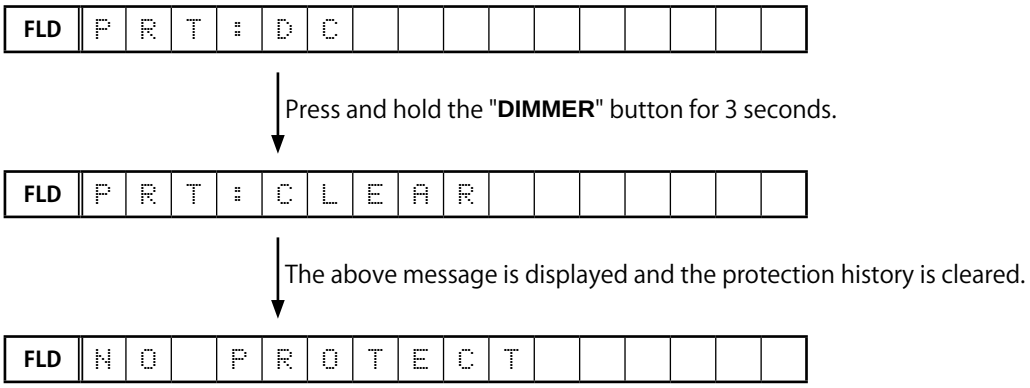
FLD	:CURRENT													

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**" page 13)

※ Use the method in **3.5.4.(a)** if you do not want to erase your settings from this unit.

Warning Displays by POWER LED

If the power is turned off while a protection is being detected, the POWER LED flashes in red to warn you depending on the protection status as follows.

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

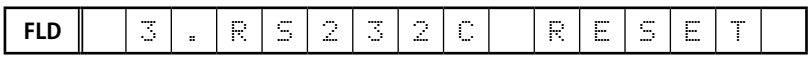
3.6. 232C Standby Clear Mode (AVR-X2200W E3 only)

3.6.1. Actions

Switches from 232C standby mode to normal standby mode.

3.6.2. Starting up

While holding down buttons "**ZONE2 SOURCE**", "**DIMMER**" and "**STATUS**" simultaneously, press the power button to turn on the power.
Select the "**3.RS232C RESET**" using the "**TUNER PRESET CH +/-**" button, then press the "**STATUS**" button then to confirm.



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-X2200W

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

AVR-S910W

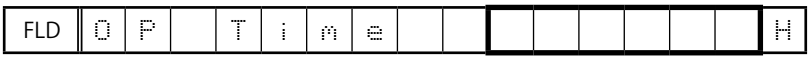
· While holding down buttons "**TUNER PRESET CH+**", "**TUNE -**" and "**PRESET +**" simultaneously, press the power button to turn on the power.

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.

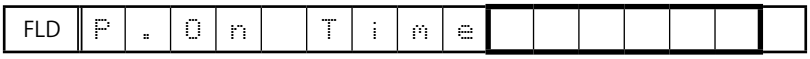
(a) Accumulated operating time



↑ Time display

"**STATUS**"

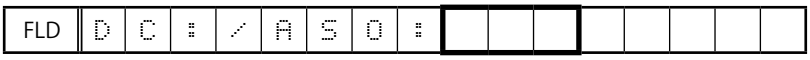
(b) Power on count



↑ Count display

"**STATUS**"

(c) DC / ASO Protection count



"**STATUS**"

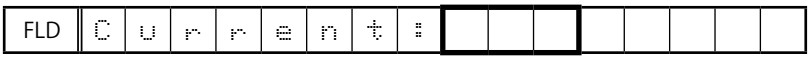
(d) Thermal Protection (A/B) count

"**STATUS**"

(e) Thermal Protection (E/F) count

"**STATUS**"

(f) Thermal 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-X2200W

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

AVR-S910W

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

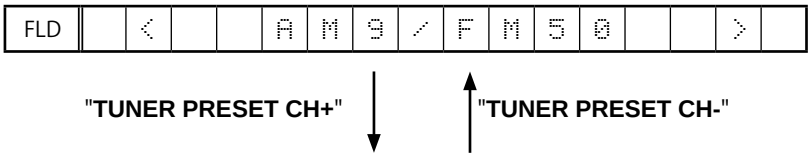
Select the "**5. TUNER FRQ SET**" using the "**TUNER PRESET CH +/-**" button, then press the "**STATUS**" button to confirm.

3.7.3. Displays

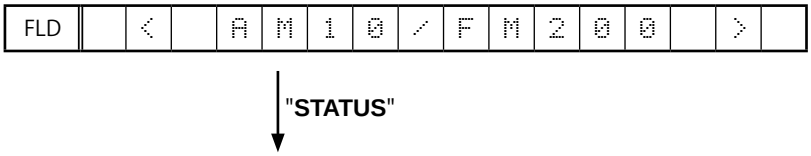
Start up this unit in TUNER STEP mode, select the desired option using the "**TUNER PRESET CH +/-**" button, then enter using the "**STATUS**" button.

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-X2200W
· While holding down buttons "**ZONE2 SOURCE**", "**DIMMER**" and "**STATUS**" simultaneously, press the power button to turn on the power.
AVR-S910W
· 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 desired "**QUICK SELECT 1 - 4**" button.

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

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

※ Only "**QUICK SELECT 1 - 4**" and the POWER button on the unit can be used in Remote ID Setup Mode.
※ The remote ID of the remote control supplied with this unit cannot be changed. ⚠2
⚠2

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-X2200W
· While holding down buttons "**TUNER PRESET CH +**", "**ZONE2 SOURCE**" and "**STATUS**" simultaneously, press the power button to turn on the power.
AVR-S910W
· 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	Protection Pass

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.
Display during CY920 reboot

FLD	Network Restart

(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-X2200W
· While the power is on, hold down buttons "**ZONE2 SOURCE**" and "**DIMMER**" for at least 3 seconds.
AVR-S910W
· 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

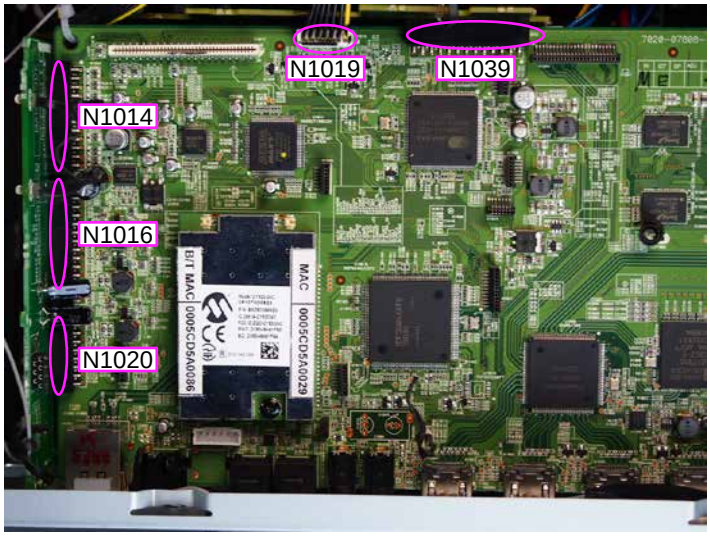
---Items to Be Prepared---

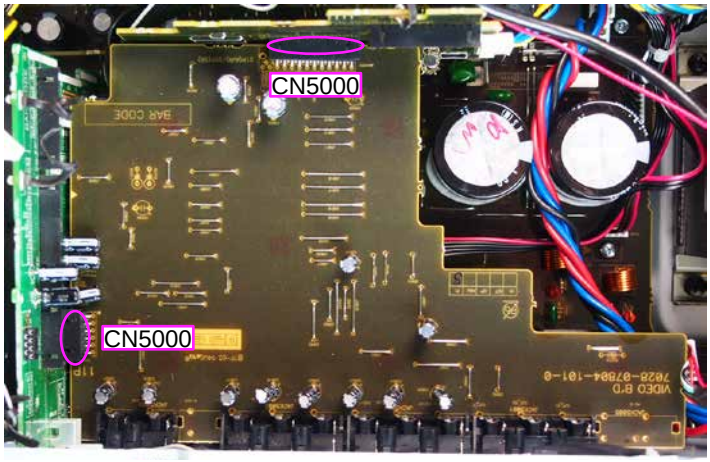
8U-110084S	:	EXTENSION UNIT KIT	:	1Sets
8U-110136S	:	EXTENSION UNIT KIT	:	1Sets
Insulation sheet (Not supplied)			:	2 sheets
Ground lead (Not supplied)			:	2 pc

-Procedures-

(1) Remove the screws.

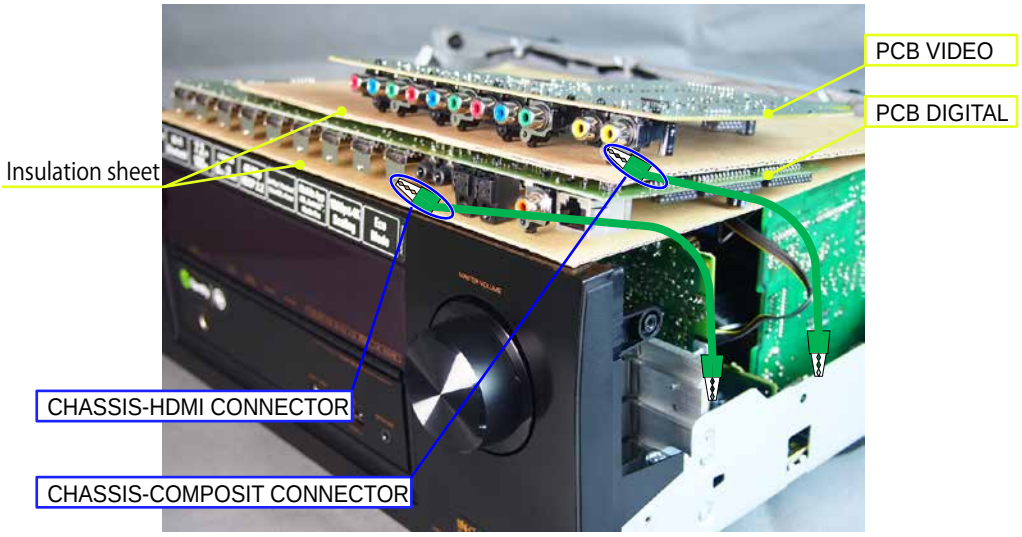
(2) Remove the connector PCB.



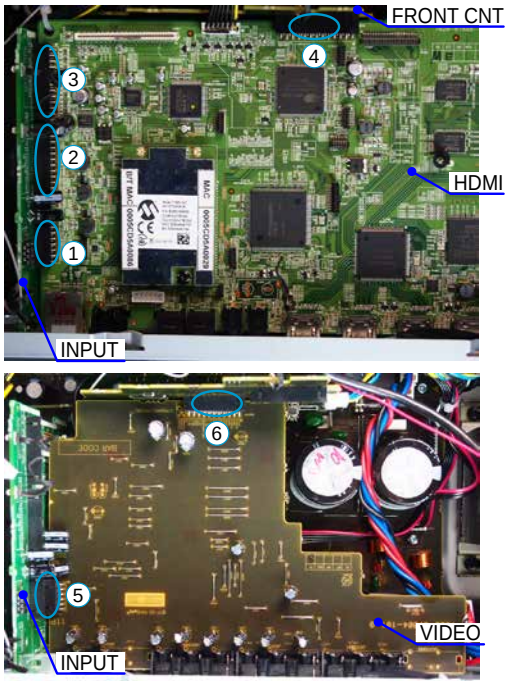


(3) Remove the HDMI PCB from the chassis and turn it over.
Place an insulation sheet larger than the PCB underneath the HDMI PCB.

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



(4) Connect the expansion cables.



Board-to-Board Connections

No.	Pin	Ref. No.	PCB		Ref. No.	PCB
①	15pin	CP4200	INPUT	⟷	N1020	HDMI
②	27pin	CP4205	INPUT	⟷	N1016	HDMI
③	23pin	CP4201	INPUT	⟷	N1014	HDMI
④	25pin	CP3401	FRONT CNT	⟷	N1039	HDMI
⑤	11pin	CP4204	INPUT	⟷	CN5003	VIDEO
⑥	21pin	CP5000	FRONT CNT	⟷	CN5000	VIDEO

PROCEDURE AFTER REPLACING THE MICROPROCESSOR, ETC.

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

PCB Name	Ref. No.	Description	Procedure after Replacement	Remark
HDMI	U1018	R5F564MJCDFC 32BIT	B	SOFTWARE : Main
HDMI	U1025	MX25L6406EM2I-12G 64M	B	SOFTWARE : DSP1 ROM
HDMI	U1027	MX25L12835FMI-10G 128M	B	SOFTWARE : GUI ROM
HDMI	U1041	5M80ZT100C5N TQFP100	B	SOFTWARE : AUDIO PLD
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 IC501 (EXTERNAL ROM) of the DIGITAL circuit board.
"**CY920 Error**" appears in the display if the DIGITAL PCB or the CY920 is replaced, as this results in the version of the INTERNAL ROM differing from that of the EXTERNAL ROM.
In this case, see "**Update Procedure in the Event of a CY920 Error**".
(This does not require special operations such as pushing multiple buttons at the same time. The firmware also cannot be updated via DPMS.)

Procedure after Replacement

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

FIRMWARE UPDATE PROCEDURE

1. Updating via USB

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

1.1. Connecting to the USB Memory

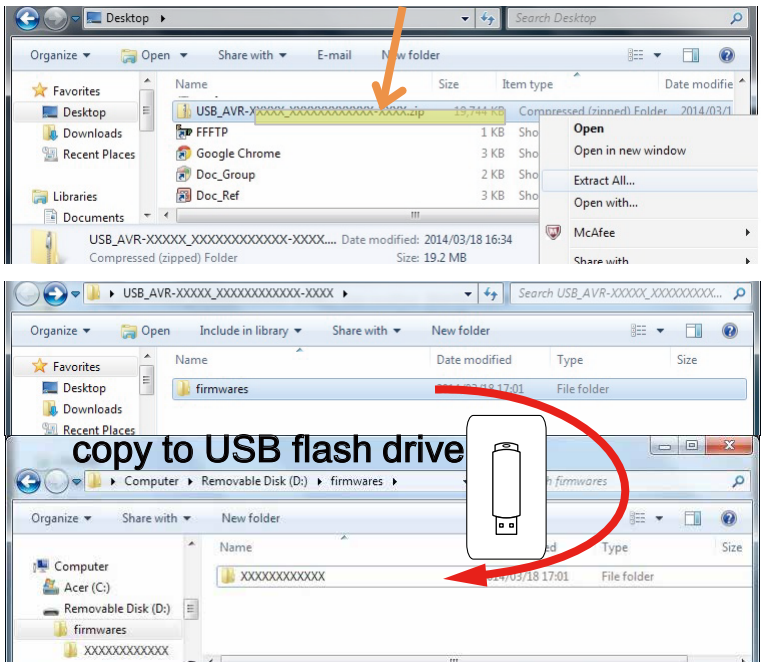
(1) Preparation

- Use a memory that supports USB2.0.
- USB format : Prepare a USB memory formatted in FAT16 or FAT32.
- Do not run the USB memory through a hub.
- Do not connect a computer to the USB port of this unit using a USB cable.
- Do not use an extension cable when connecting the USB unit.
- 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).

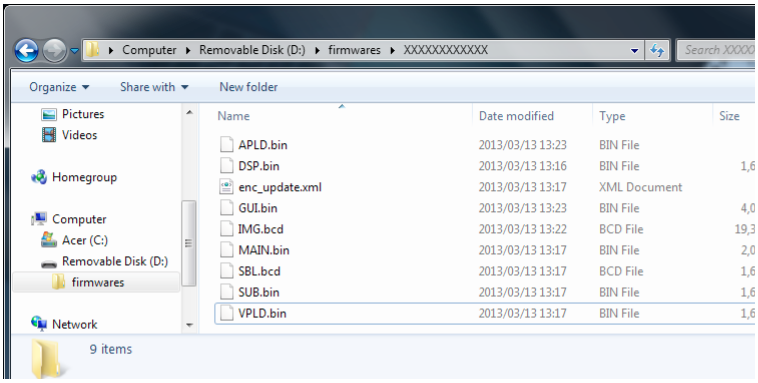
1.3. File structure on USB Memory

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

USB memory root

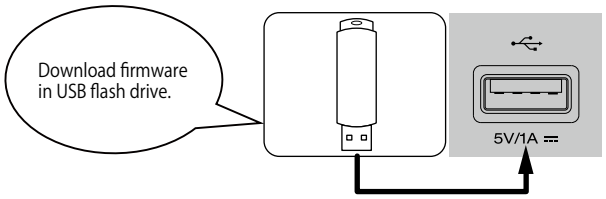
Model Name	Model Area	Product ID
AVR-X2200WE3	North America (E3)	000100830100
AVR-X2200WE2	Europe (E2)	000100830200
AVR-X2200WJP	Japan (JP)	000100830400
AVR-X2200WE1C	China (E1C)	000100830500
AVR-S910W	North America (E3)	000100830700

+ 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-X2200W

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

AVR-S910W

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-X2200W
While holding down buttons the "**TUNER PRESET CH +**" and "**STATUS**" buttons simultaneously, insert the AC plug to turn the power on.
AVR-S910W
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

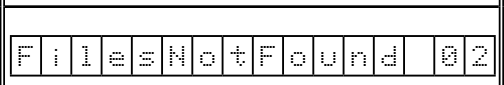
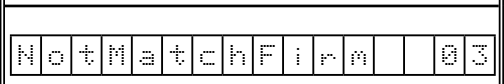
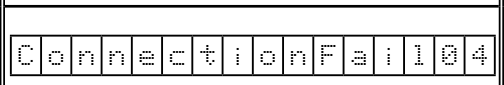
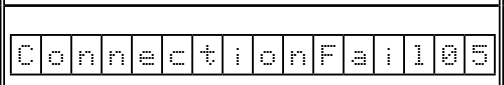
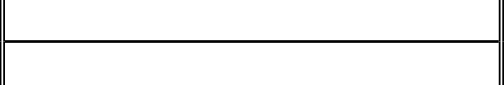
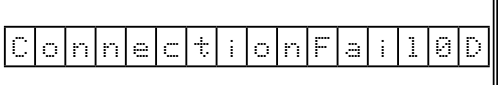
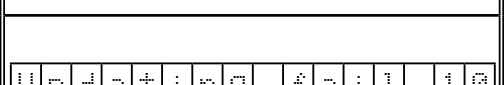
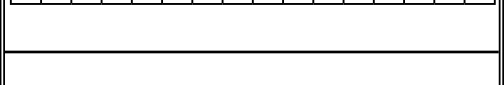
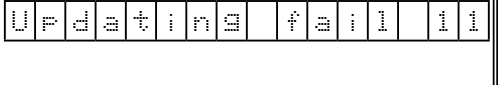
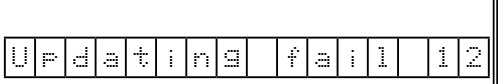
FLD	U	p	d	a	t	e		C	o	m	p	l	e	t	e	

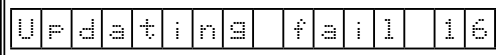
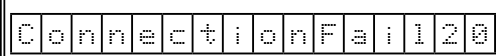
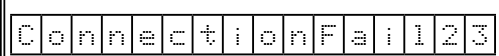
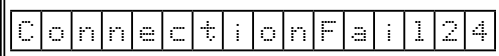
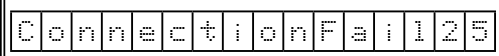
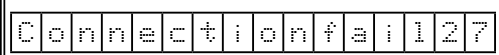
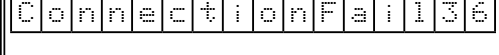
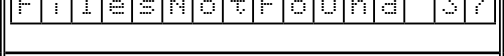
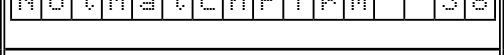
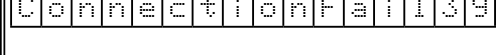
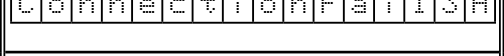
The unit restarts after the update is finished.

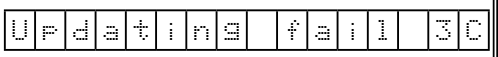
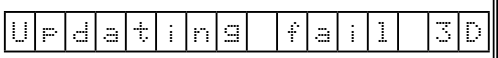
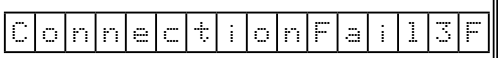
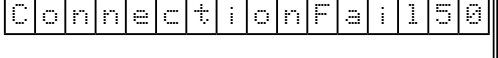
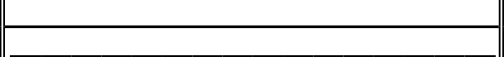
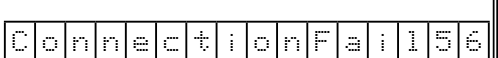
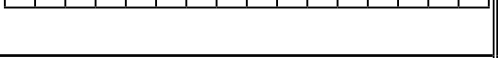
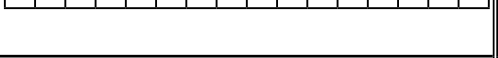
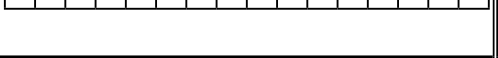
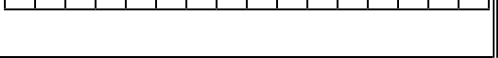
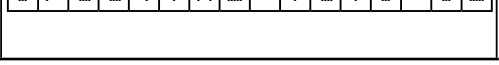
(6) After the update, check that "**CY920 Error**" is no longer displayed, and check the version of the new firmware.
See "**1. Version Display Mode**" (page 24).

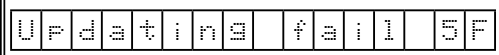
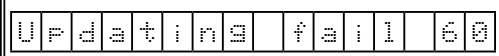
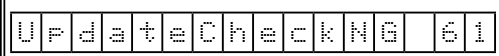
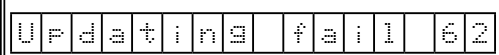
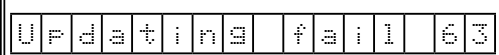
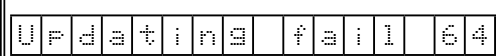
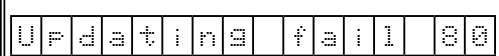
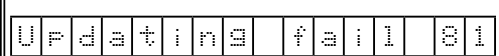
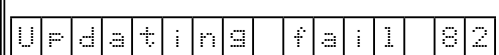
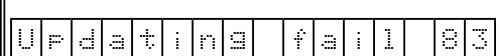
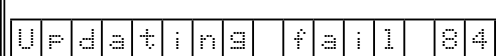
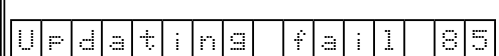
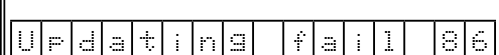
1.10. About the error codes

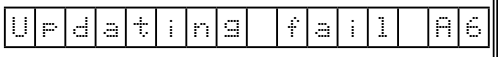
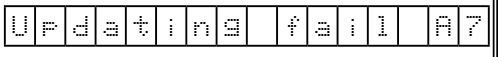
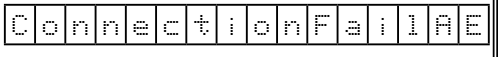
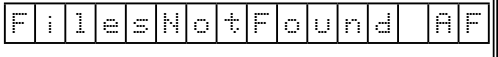
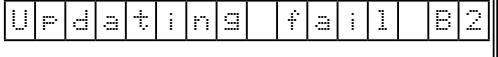
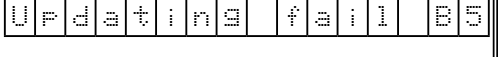
See the table below for error codes and details of faults when the firmware is updated through USB memory.

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.
0D		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.

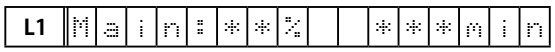
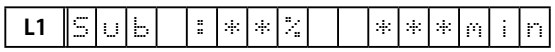
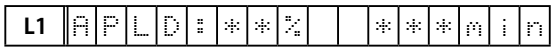
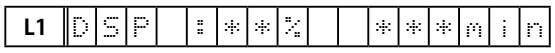
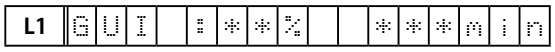
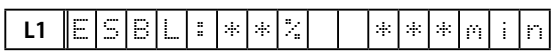
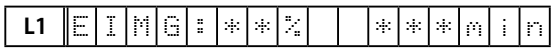
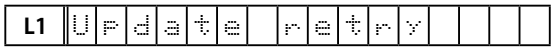
Error Code	USB Update Error Display	Details of Error code	Remedies
5F		Setup failure of the XModem transfer method.	This unit automatically retries the request several times. Wait until the Display stops. If the Display stops at the Error display, press and hold the "Power operation" button for 5 seconds.
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 24).

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
Sub		50 - 52 54 - 57 5A - 64
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 24).

2. Updating via DPMS

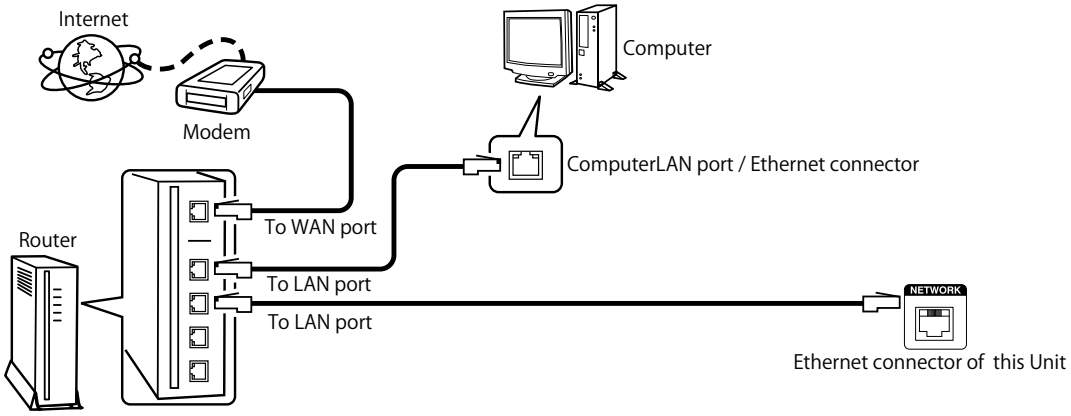
Download the latest firmware from our website and update the firmware.

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---

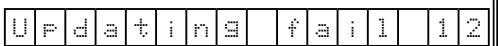
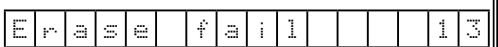
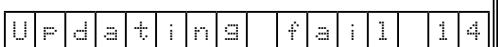
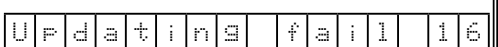
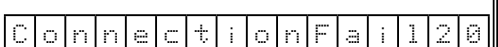
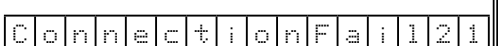
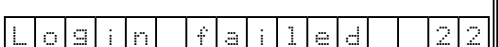
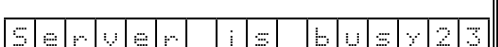
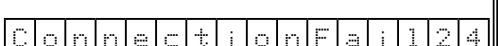
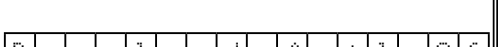
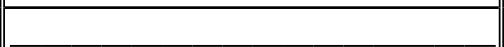
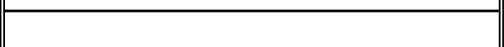
- For the update procedure, a proper broadband Internet connection environment and settings are required.
- Do not turn off the power until updating is completed.

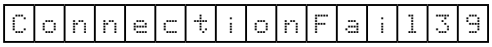
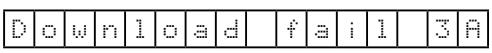
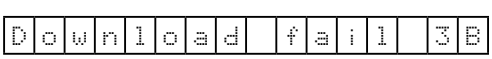
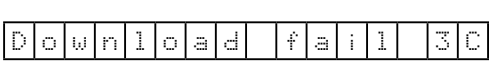
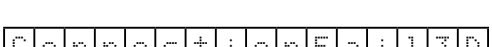
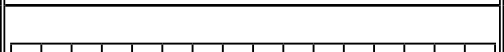
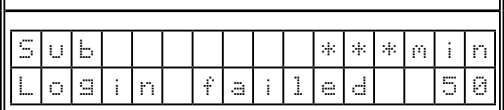
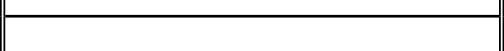
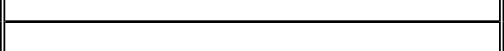
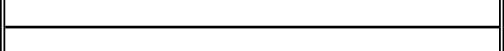
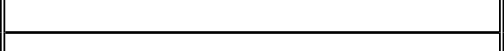
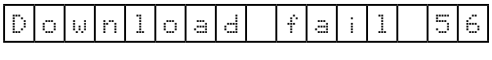
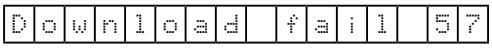
• It takes around 1 hour to complete the update.
Once an update is started, normal operations cannot be performed until it is completed.
The GUI menu settings and image adjustment settings of this unit may be initialized.
Note down the settings before updating, and set them again after updating.

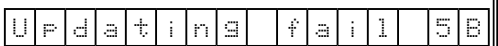
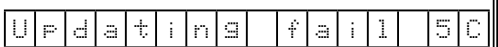
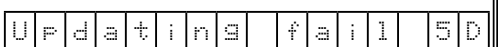
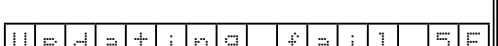
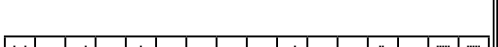
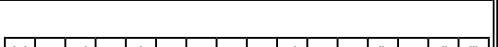
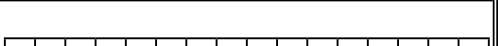
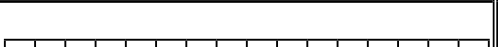
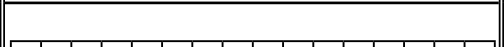
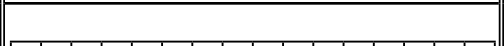
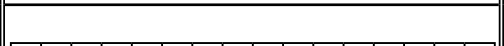
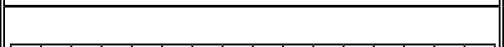
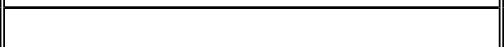
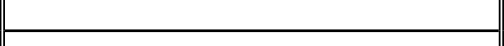
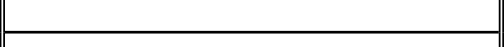
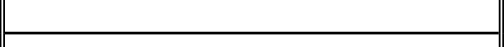
2.3. About the error codes

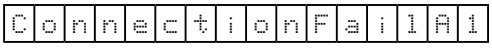
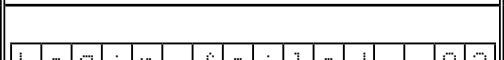
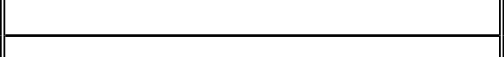
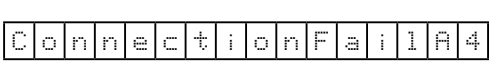
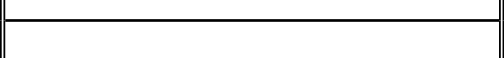
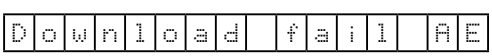
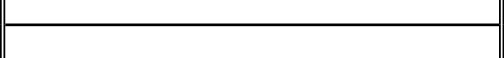
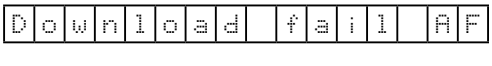
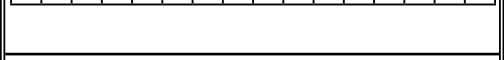
See the following table for details on the error code display, details of the error code, remedies when updating the firmware via DPMS. (DPMS : D&M Product Management Server)

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.

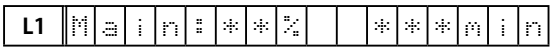
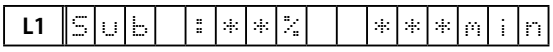
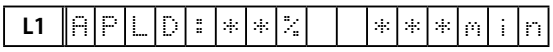
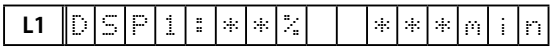
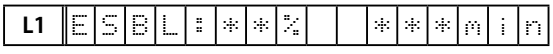
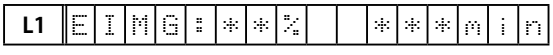
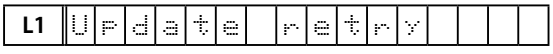
Error Code	DPMS Update Error Display	Details of Error code	Remedies
39		DPMS connection Time Out Error.	Check the network connection. Carry out the update in an environment that has little network load.
3A		Error(NG) notification received while requesting Firmware Download.	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3B		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		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		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		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		Failed to transit to SBL Mode.	Check the network connection. Carry out the update in an environment that has little network load.
50		DPMS login incorrect notification.	Carry out the update in an environment that has little network load.
51		DPMS congestion notification.	Carry out the update in an environment that has little network load.
52		DPMS connection failure notification.	Check the network connection. Carry out the update in an environment that has little network load.
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		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		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		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		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		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
Sub		50 - 52 54 - 58 5A - 62
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 24).

ADJUSTMENT

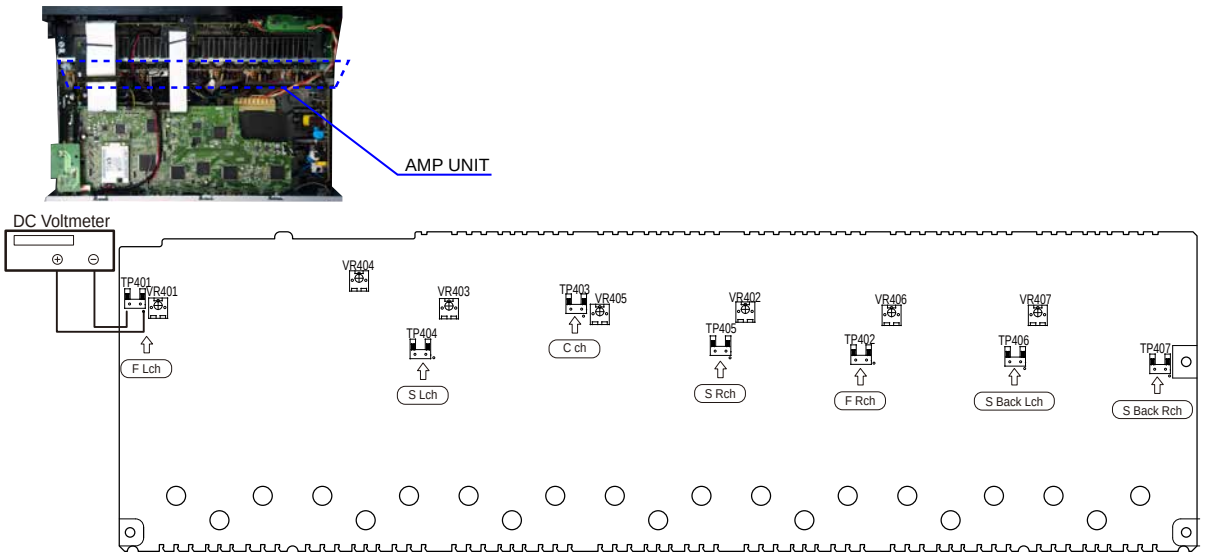
Adjusting Idling Current

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 VR401(ALL Channel) of the AMP PCB counterclockwise(↺) as far as possible.
(2) Connect the DC Voltmeter to the test points.
FRONT-Lch : TP401
FRONT-Rch : TP402
CENTER ch : TP403
SURROUND-Lch : TP404
SURROUND-Rch : TP405
SURROUND-BACK Lch : TP406
SURROUND-BACK Rch : TP407
(3) Connect the power cord to 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 VR401 clockwise (↻) and adjust the voltage of the test point to "**6.0mV ± 0.5mV DC**" within 2 minutes.
(6) 10 minutes after the preliminary adjustment, turn VR401 and set the voltage to "**8.0mV ± 0.5mV DC**".
(7) Adjust the variable resistance of each channel using the same method.



SURROUND MODES AND PARAMETERS

Sound modes and channel output

○ This indicates the audio output channels or surround parameters that can be set.
◎ This indicates the audio output channels. The output channels depend on the settings of “Speaker Config.”. (☞ p. 196)

Sound mode	Channel output									
	Front L/R	Center	Surround L/R	Surround Back L/R	Front Height L/R	Top Front L/R	Top Middle L/R	Front Dolby Atmos Enabled L/R	Surround Dolby Atmos Enabled L/R	Subwoofer
Direct/Pure Direct (2-channel)	○									◎∗4
Direct/Pure Direct (Multi-channel)	○	◎	◎	◎∗1	◎∗1	◎∗1	◎∗1	◎∗1	◎∗1	◎
Stereo	○									◎
Multi Ch In	○	◎	◎	◎∗1	◎∗3	◎∗3	◎∗3	◎∗3	◎∗3	◎
Dolby Surround	○	◎	◎	◎∗2	◎	◎	◎	◎	◎	◎
DTS Neural:X	○	◎	◎	◎	◎	◎	◎	◎	◎	◎
Dolby Digital	○	◎	◎	◎	◎∗3	◎∗3	◎∗3	◎∗3	◎∗3	◎
Dolby Digital Plus	○	◎	◎	◎∗1	◎∗1	◎∗3	◎∗3	◎∗3	◎∗3	◎
Dolby TrueHD	○	◎	◎	◎∗1	◎∗1	◎∗3	◎∗3	◎∗3	◎∗3	◎
Dolby Atmos	○	◎	◎	◎	◎	◎	◎	◎	◎	◎
DTS Surround	○	◎	◎	◎	◎∗3	◎∗3	◎∗3	◎∗3	◎∗3	◎
DTS 96/24	○	◎	◎	◎	◎∗3	◎∗3	◎∗3	◎∗3	◎∗3	◎
DTS-HD	○	◎	◎	◎∗1	◎∗1	◎∗3	◎∗3	◎∗3	◎∗3	◎
DTS Express	○	◎	◎	◎	◎∗3	◎∗3	◎∗3	◎∗3	◎∗3	◎
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.” - “Surr. Back” in the menu is set to “1 spkr”. (☞ p. 198)
∗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”. (☞ p. 204)

Sound modes and surround parameters

Sound mode	Surround Parameter								
	Dialog Level Adjust	Subwoofer Level Adjust	Cinema EQ	Loudness Management ∗1	Dynamic Compression ∗2	Dialog Control ∗3	Low Frequency Effects ∗4	Delay Time	Effect Level
Direct/Pure Direct (2-channel) ∗5		○∗6		○	○				
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		○		○	○		○		

*1 - *6 : “Sound modes and surround parameters” (☞ p. 259)

Sound mode	Surround 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” (☞ p. 259)

∗1 This item can be selected when a Dolby Digital, Dolby Digital Plus, Dolby TrueHD or Dolby Atmos 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”. (☞ p. 204)
∗7 This item cannot be set when “Dynamic EQ” is set to “On”. (☞ p. 161)
∗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”. (☞ p. 161)
∗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” (☞ p. 262)

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		●	○	○	○	○	○	○	○	○	○	○	○	○	○

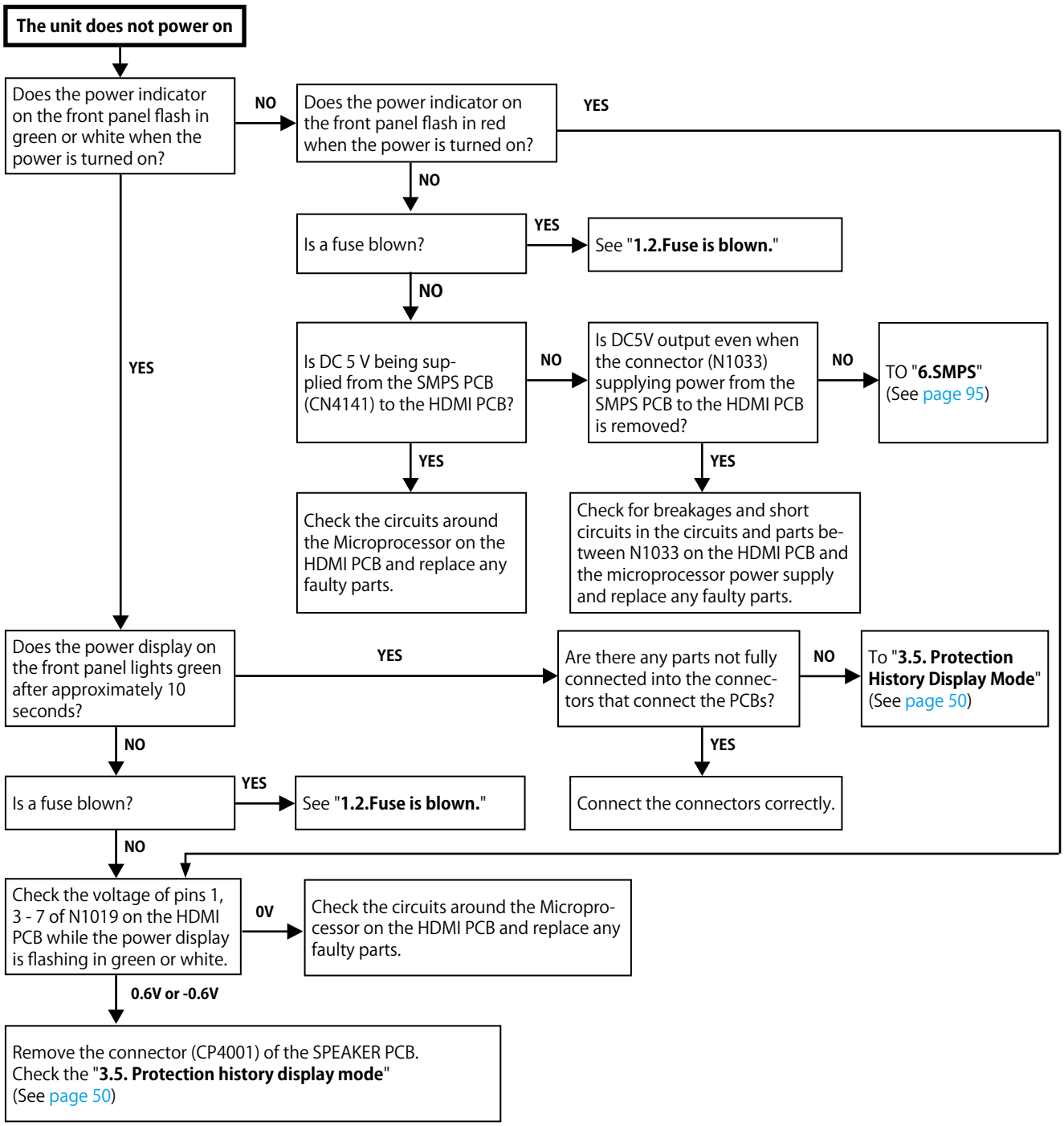
∗2, ∗8 – ∗10 : “Types of input signals, and corresponding sound modes” (☞ p. 262)

∗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.

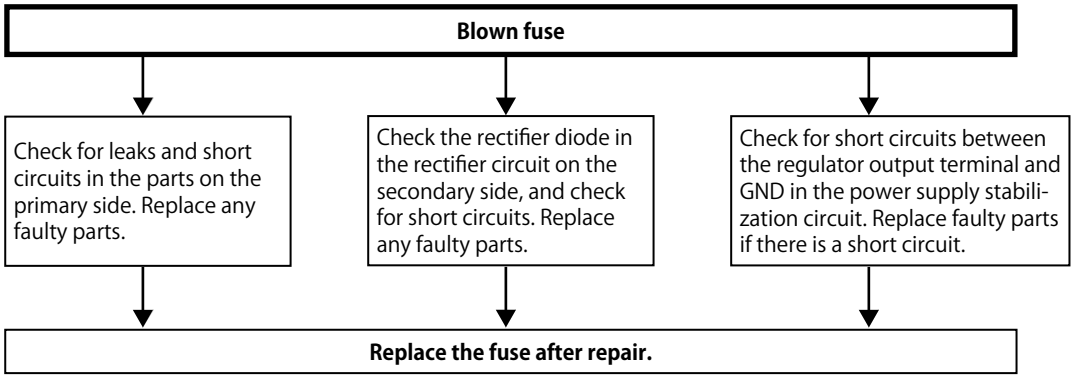
TROUBLE SHOOTING

1. POWER

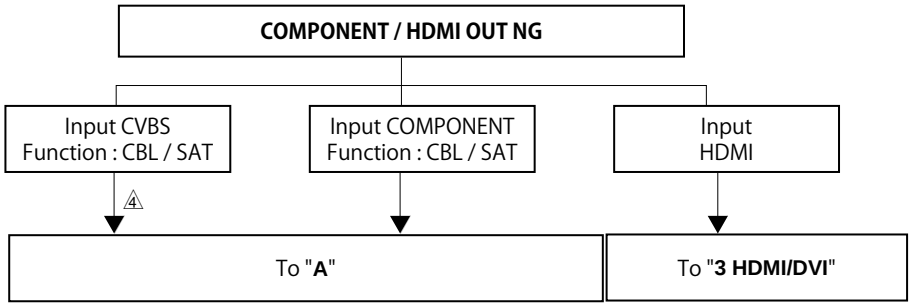
1.1. The unit does not power on



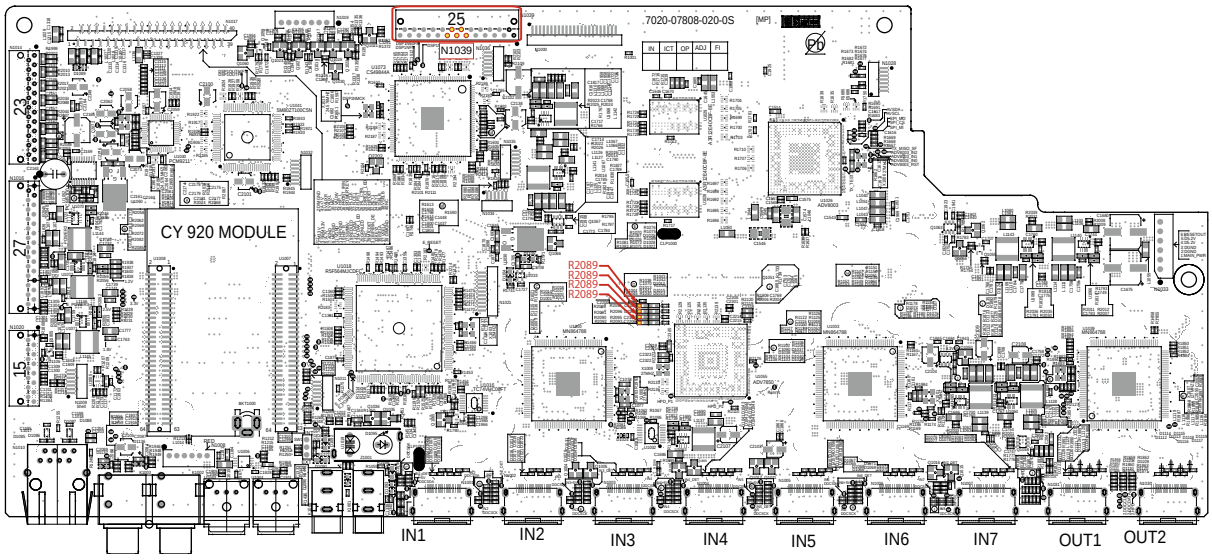
1.2. Fuse is blown



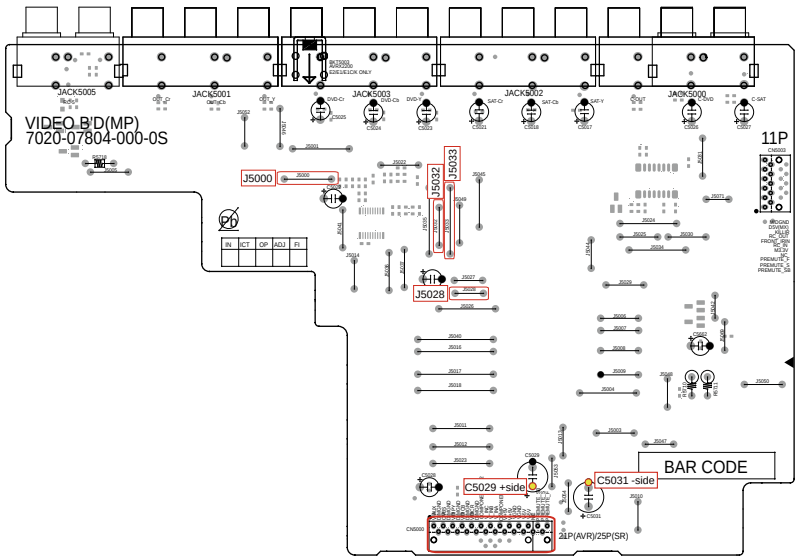
2. Analog video

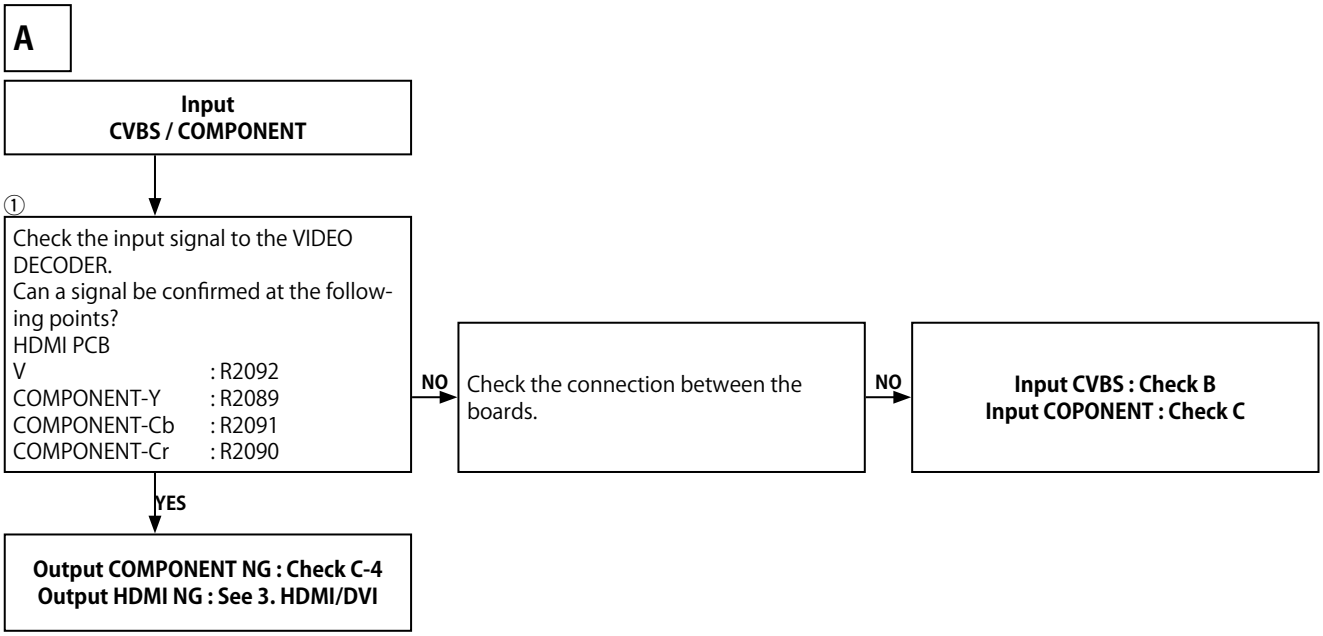


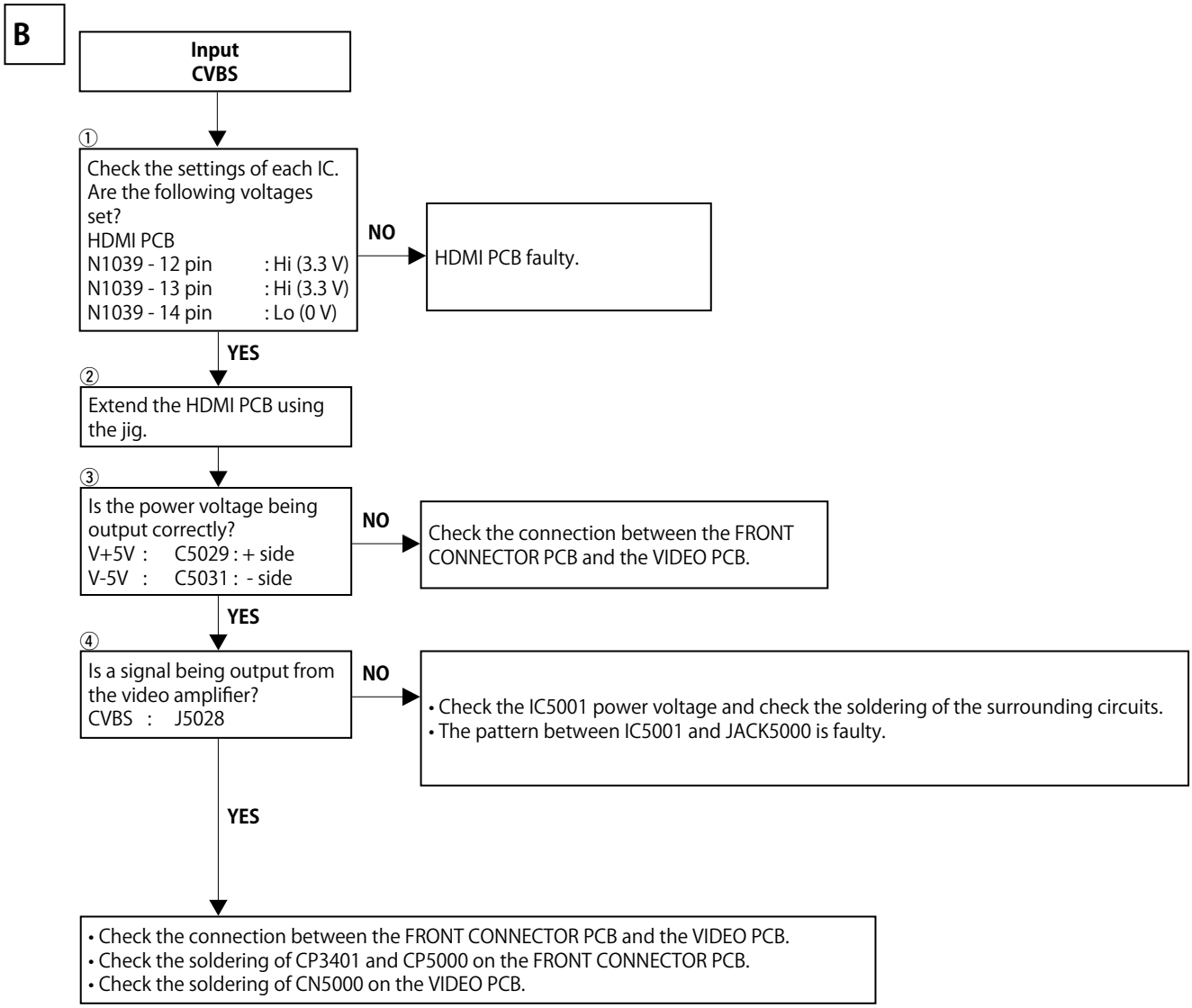
<HDMI PCB> test point



<VIDEO PCB> test point




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



※ These instructions refer to the VIDEO PCB unless otherwise specified.

C

Input
COMPONENT

①

Check the settings of each IC.
Are the following voltages set?
HDMI PCB
N1039 - 11 pin : Lo (0 V)
N1039 - 15 pin : Hi (3.3 V)

NO → HDMI PCB faulty.

YES

②

Extend the HDMI PCB using the jig.

③

Is the power voltage being output correctly?
V+5V : C5029 : + side
V-5V : C5031 : - side

NO → Check the connection between the FRONT CONNECTOR PCB and the VIDEO PCB.

YES

④

Is a signal being output from the video amplifier?
COMP-Y : J5032
COMP-CB : J5033
COMP-CR : J5000

NO → ⚠4
- Check the IC5002 power voltage and check the soldering of the surrounding circuits.
- The pattern between IC5002 and JACK5002, JACK5003 are faulty.

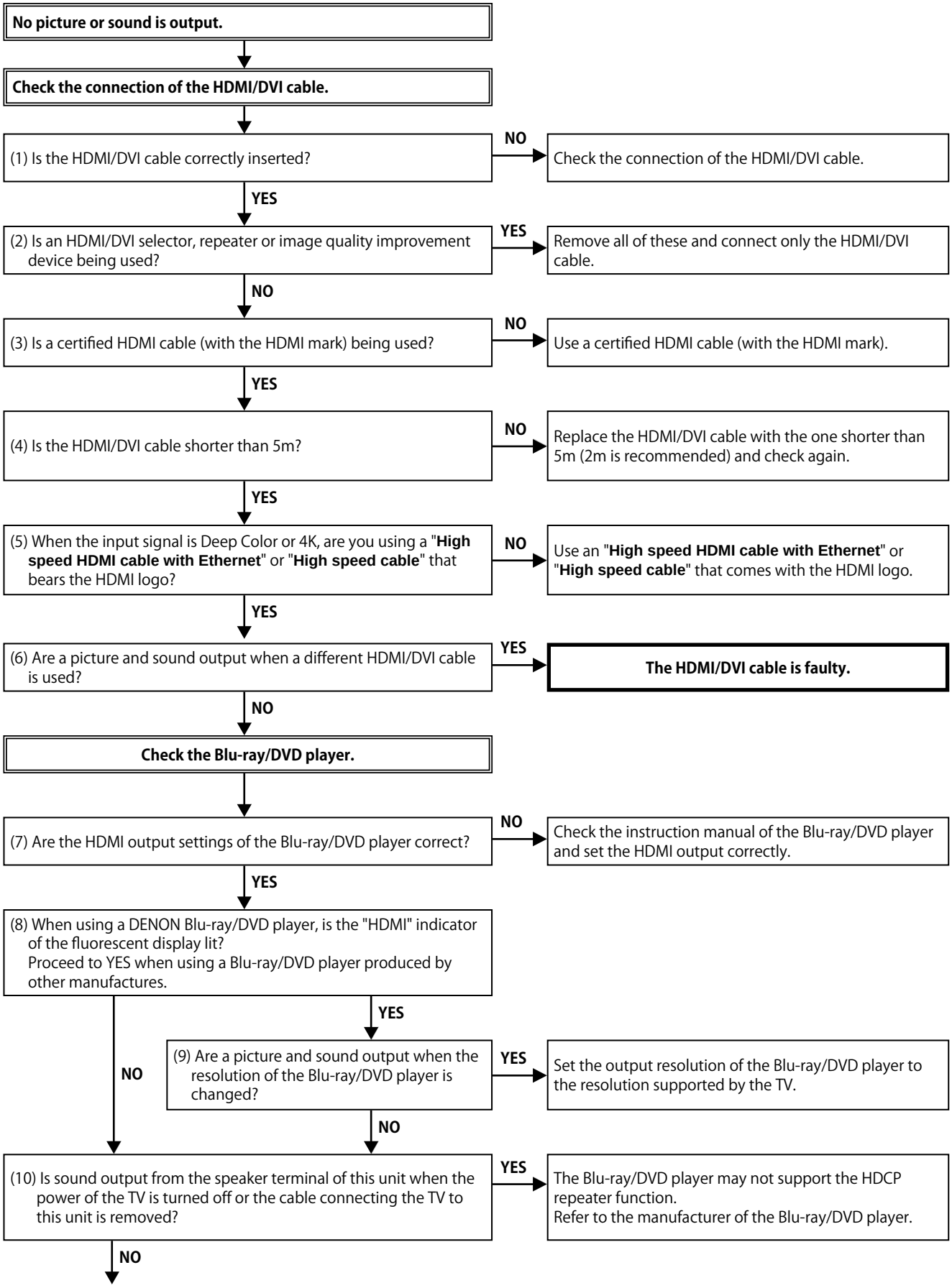
YES

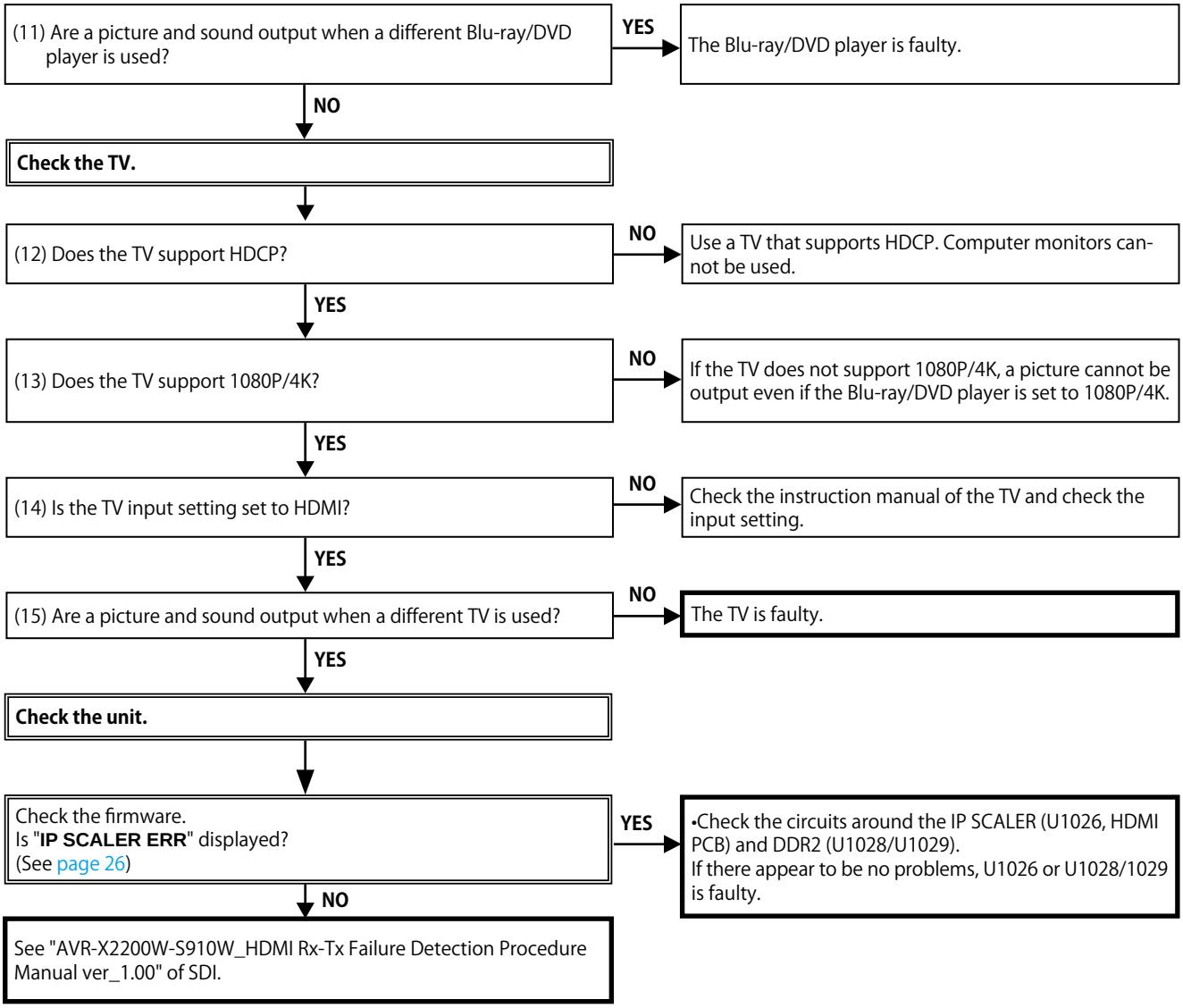
- Check the connection between the FRONT CONNECTOR PCB and the VIDEO PCB.
- Check the soldering of CP3401 and CP5000 on the FRONT CONNECTOR PCB.
- Check the soldering of CN5000 on the VIDEO PCB.
- Check the soldering of JACK5001 on the VIDEO PCB. ⚠4

※ These instructions refer to the VIDEO PCB unless otherwise specified.

3. HDMI/DVI

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




(11) Are a picture and sound output when a different Blu-ray/DVD player is used?
YES
The Blu-ray/DVD player is faulty.
NO
Check the TV.
(12) Does the TV support HDCP?
NO
Use a TV that supports HDCP. Computer monitors cannot be used.
YES
(13) Does the TV support 1080P/4K?
NO
If the TV does not support 1080P/4K, a picture cannot be output even if the Blu-ray/DVD player is set to 1080P/4K.
YES
(14) Is the TV input setting set to HDMI?
NO
Check the instruction manual of the TV and check the input setting.
YES
(15) Are a picture and sound output when a different TV is used?
NO
The TV is faulty.
YES
Check the unit.
Check the firmware.
Is "IP SCALER ERR" displayed?
(See page 26)
YES
•Check the circuits around the IP SCALER (U1026, HDMI PCB) and DDR2 (U1028/U1029).
If there appear to be no problems, U1026 or U1028/1029 is faulty.
NO
See "AVR-X2200W-S910W_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

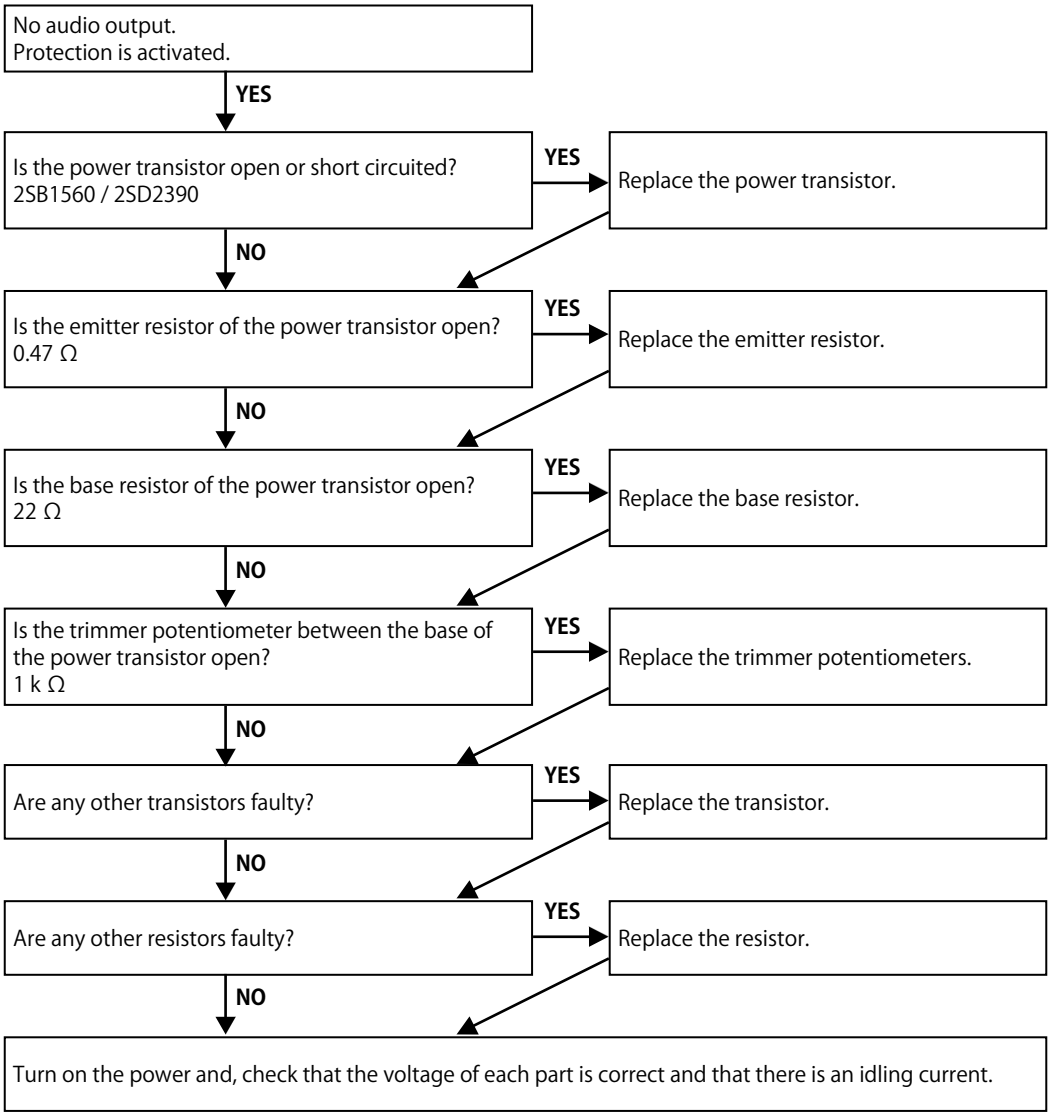
NO

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)

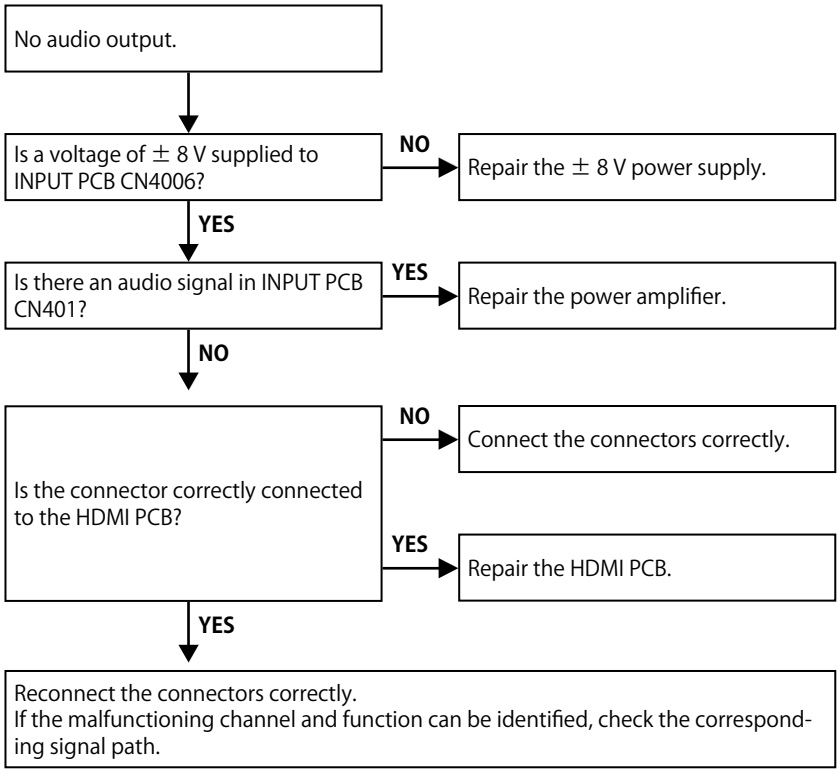
YES → Check the DIGITAL AUDIO BLOCK

NO → Check the HDMI BLOCK

4.2. Power AMP (AMP PCB)

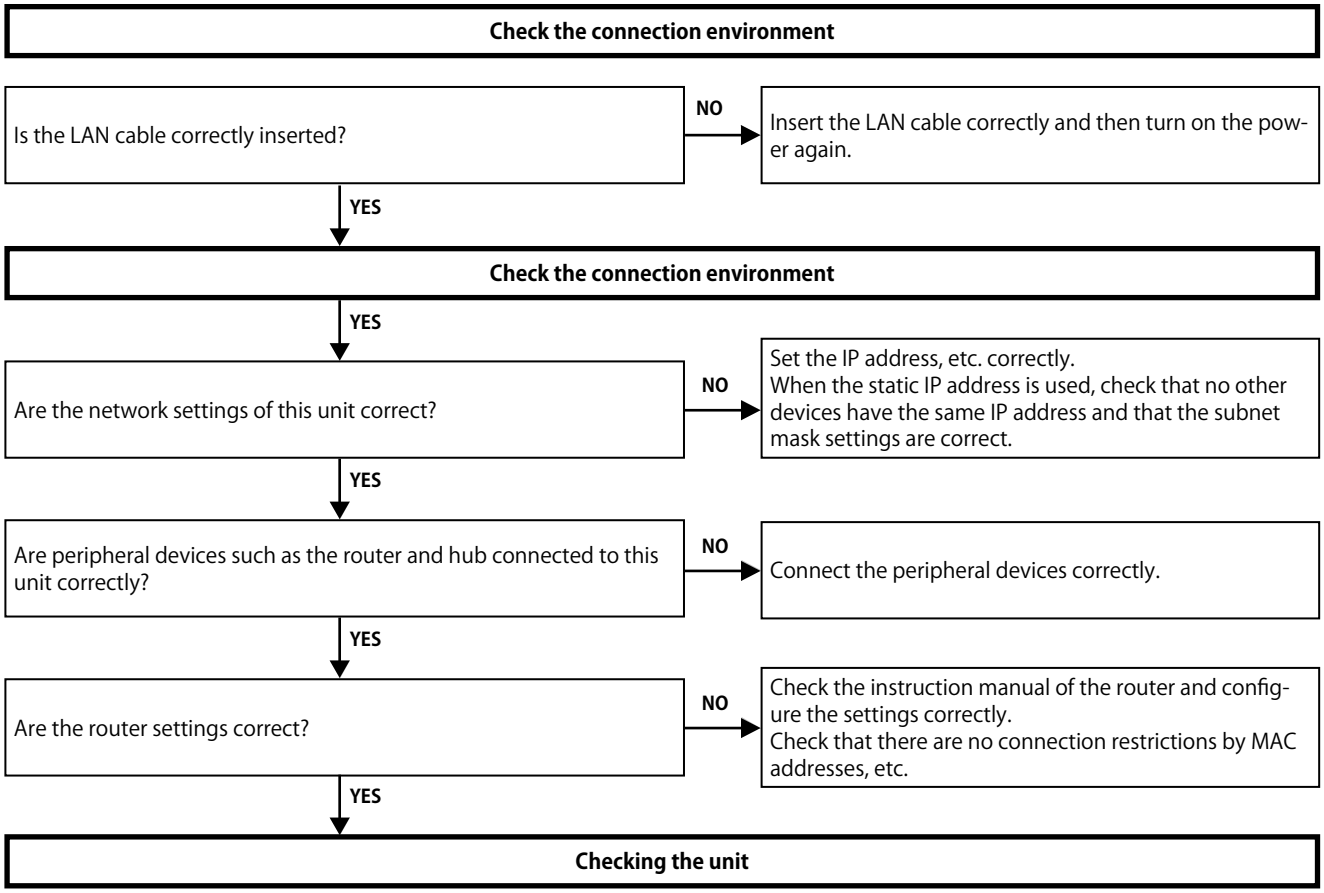


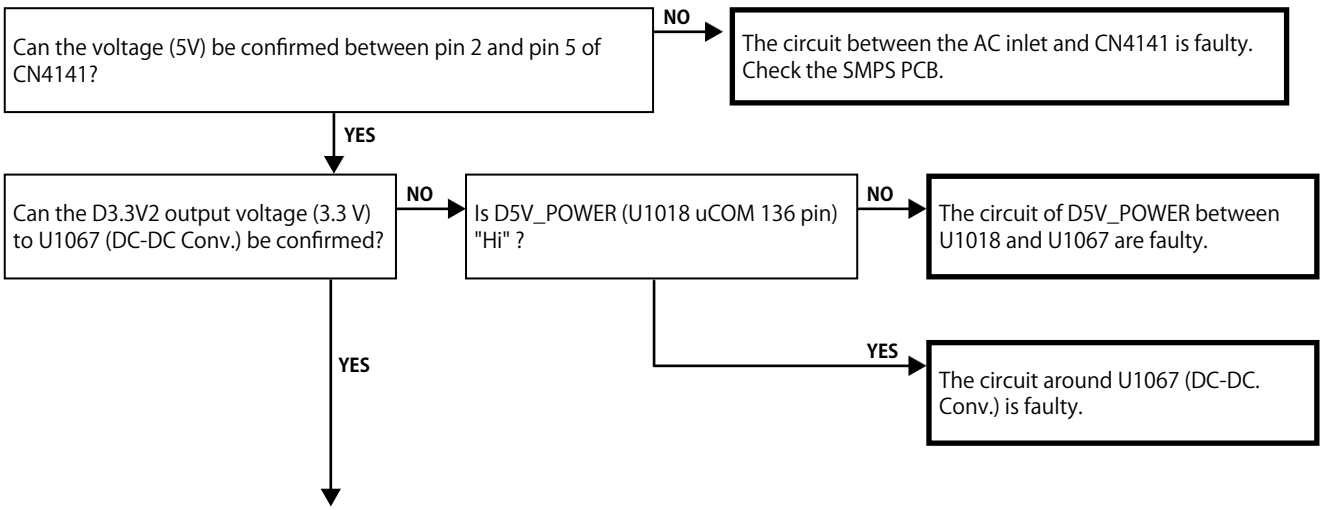
4.3. Analog audio

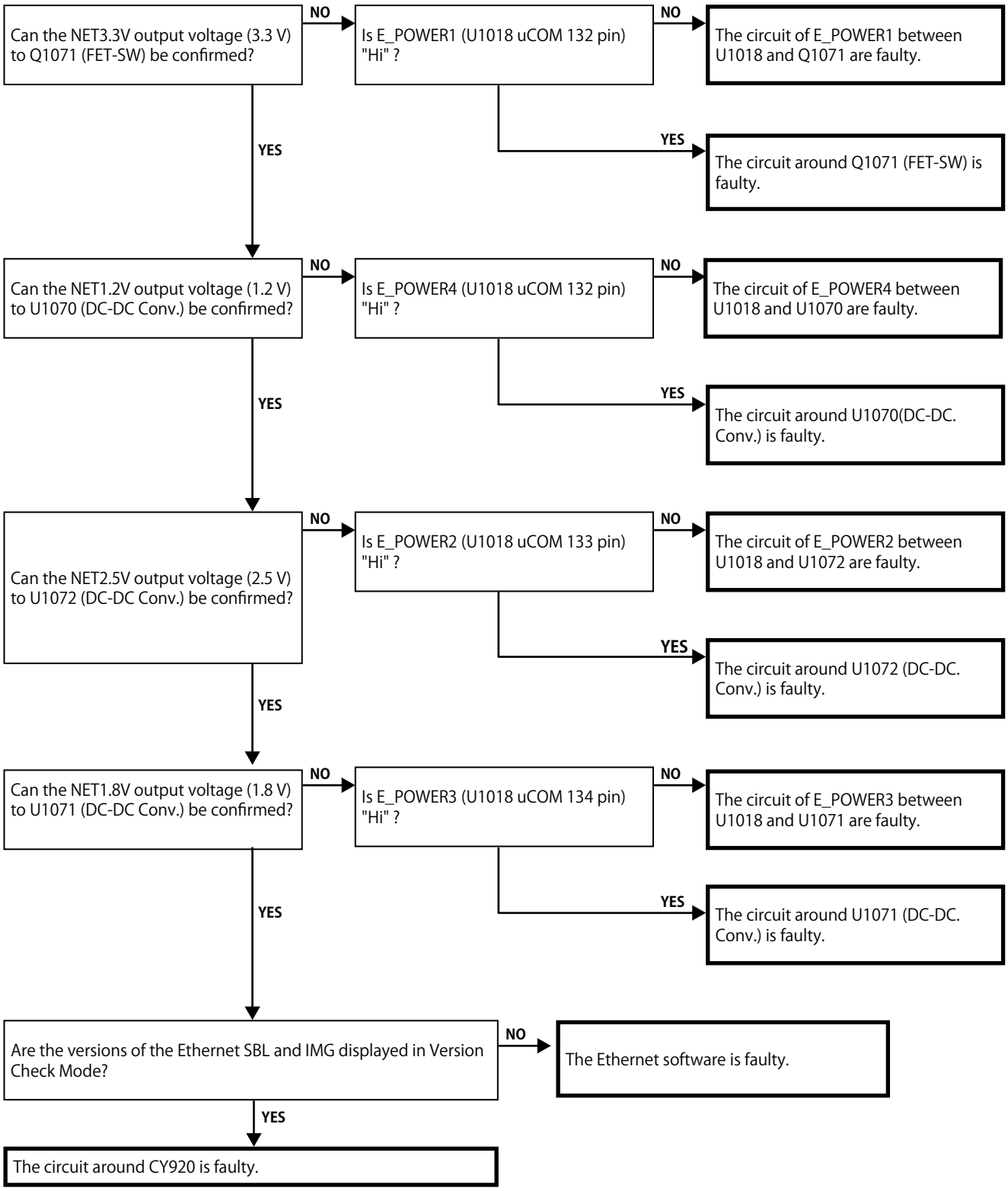


5. Network / Bluetooth / USB

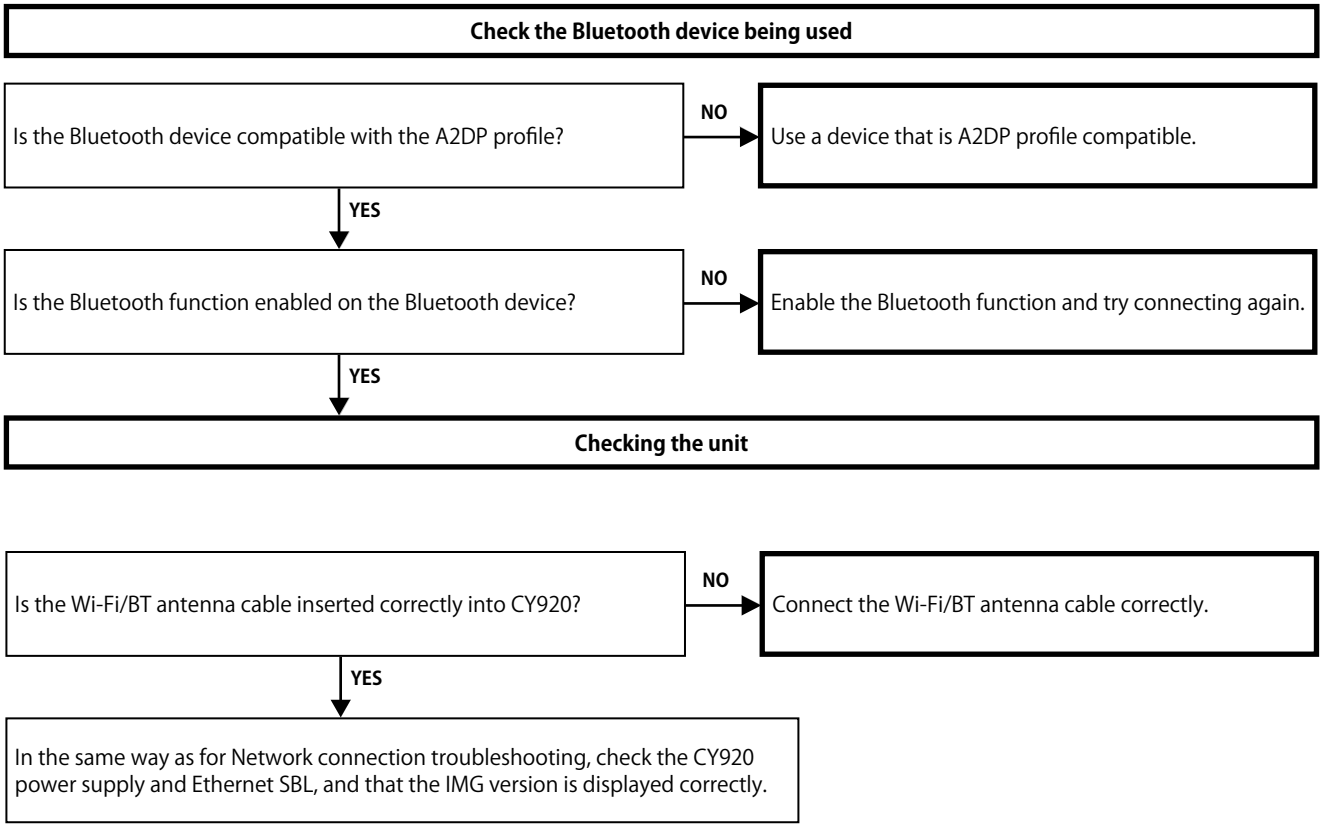
5.1. Cannot connect to the network



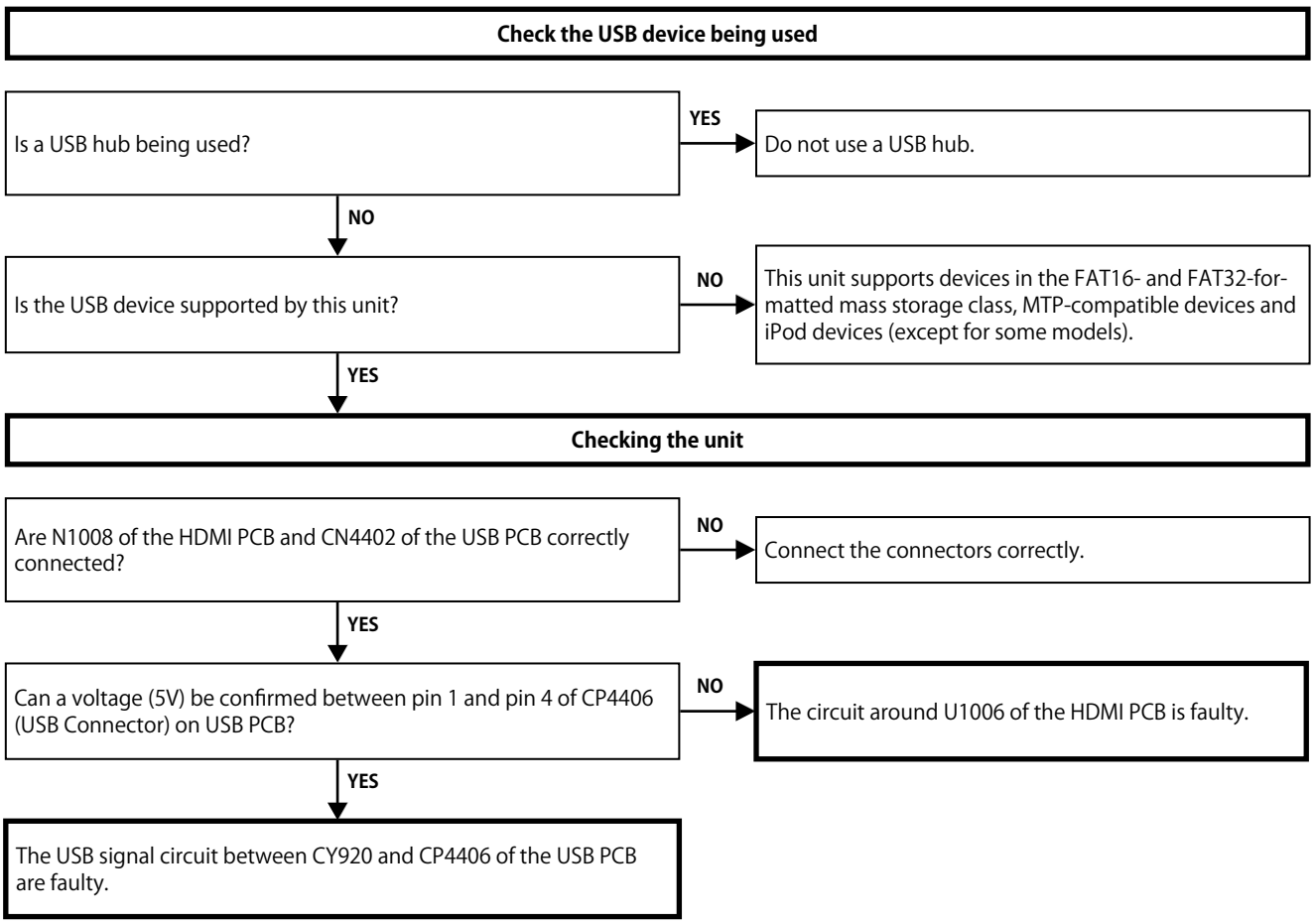



Can the NET3.3V output voltage (3.3 V) to Q1071 (FET-SW) be confirmed?
NO
Is E_POWER1 (U1018 uCOM 132 pin) "Hi" ?
NO
The circuit of E_POWER1 between U1018 and Q1071 are faulty.
YES
The circuit around Q1071 (FET-SW) is faulty.
YES
Can the NET1.2V output voltage (1.2 V) to U1070 (DC-DC Conv.) be confirmed?
NO
Is E_POWER4 (U1018 uCOM 132 pin) "Hi" ?
NO
The circuit of E_POWER4 between U1018 and U1070 are faulty.
YES
The circuit around U1070(DC-DC. Conv.) is faulty.
YES
Can the NET2.5V output voltage (2.5 V) to U1072 (DC-DC Conv.) be confirmed?
NO
Is E_POWER2 (U1018 uCOM 133 pin) "Hi" ?
NO
The circuit of E_POWER2 between U1018 and U1072 are faulty.
YES
The circuit around U1072 (DC-DC. Conv.) is faulty.
YES
Can the NET1.8V output voltage (1.8 V) to U1071 (DC-DC Conv.) be confirmed?
NO
Is E_POWER3 (U1018 uCOM 134 pin) "Hi" ?
NO
The circuit of E_POWER3 between U1018 and U1071 are faulty.
YES
The circuit around U1071 (DC-DC. Conv.) is faulty.
YES
Are the versions of the Ethernet SBL and IMG displayed in Version Check Mode?
NO
The Ethernet software is faulty.
YES
The circuit around CY920 is faulty.

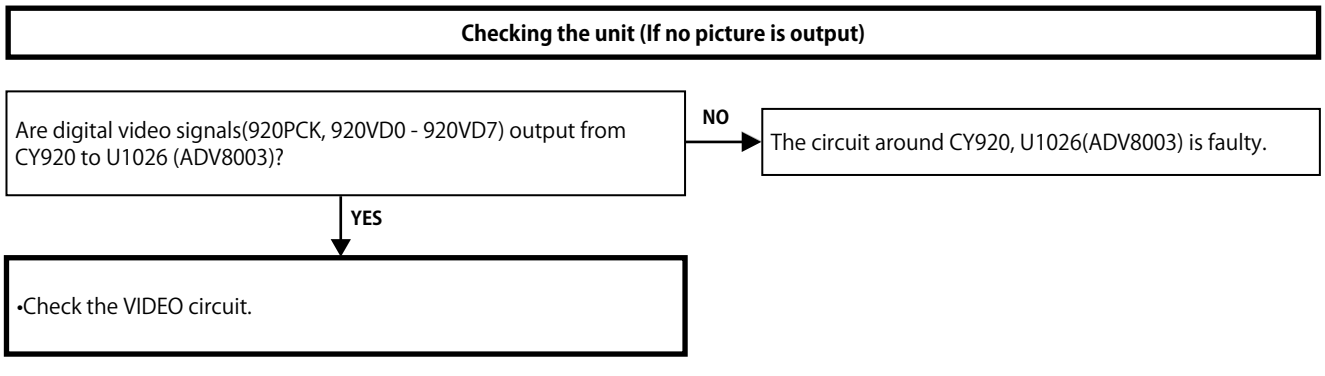
5.2. Cannot establish a Bluetooth connection

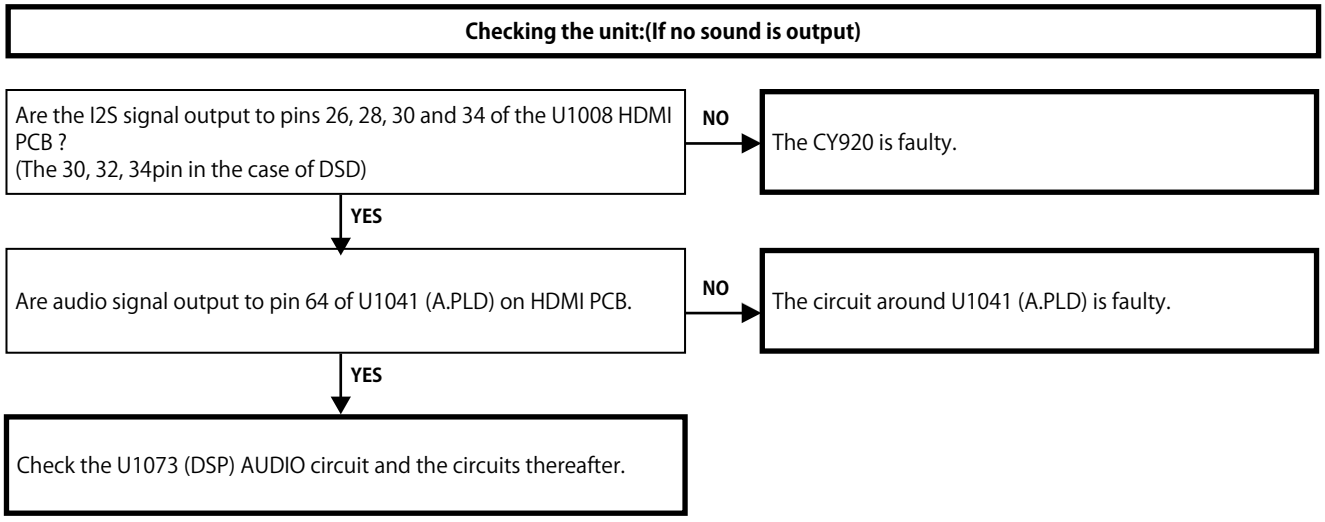


5.3. Cannot recognize the connected USB device

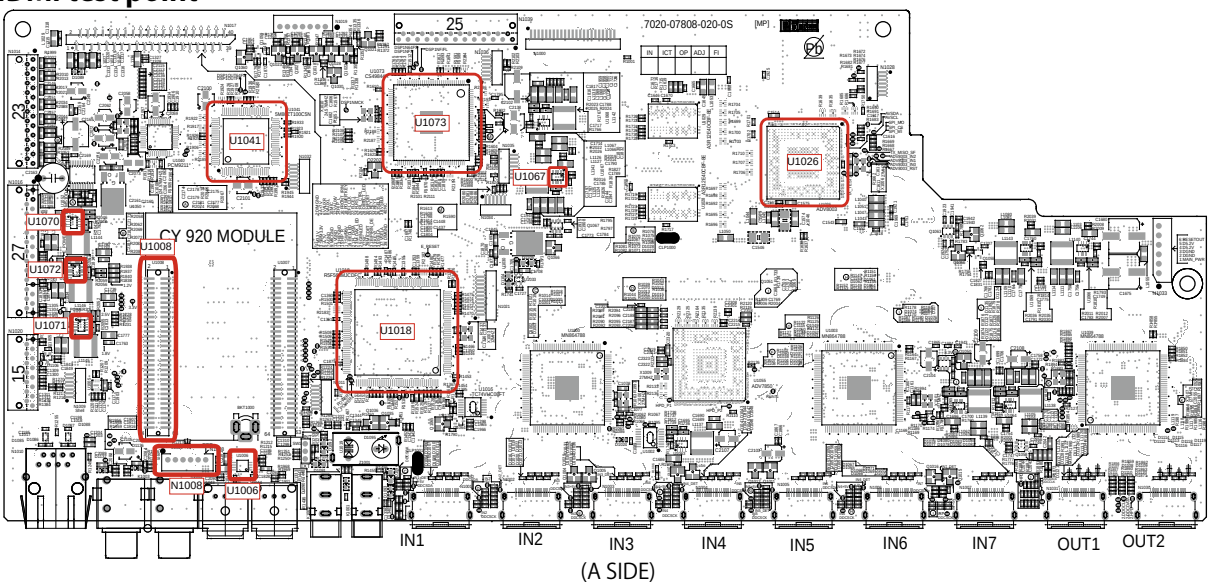


5.4. No picture or sound is output

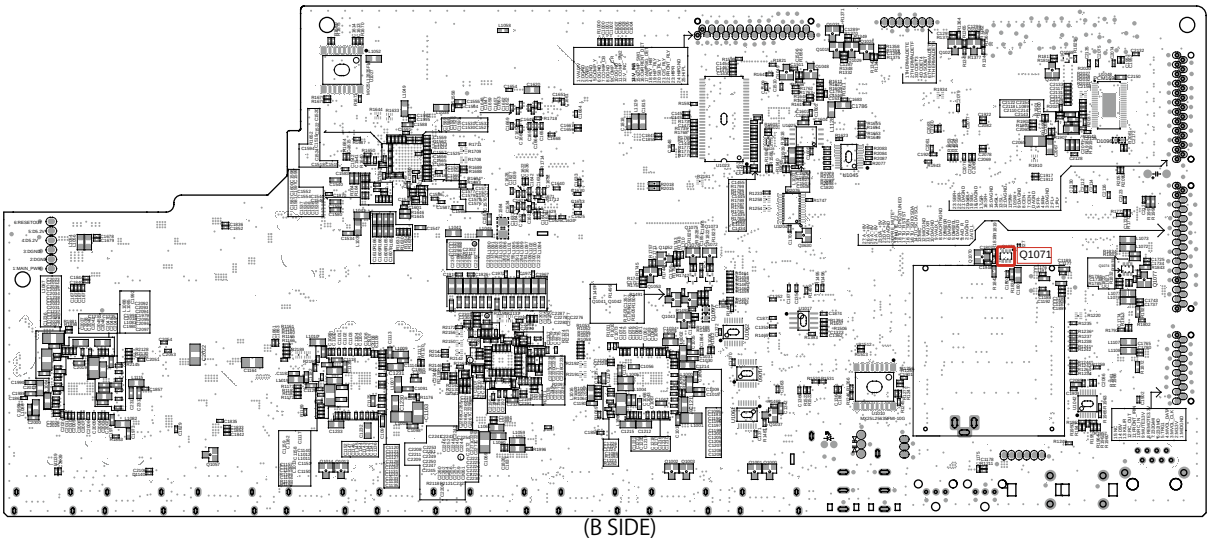




HDMI test point

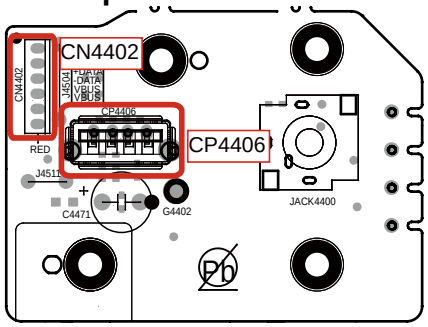


(A SIDE)



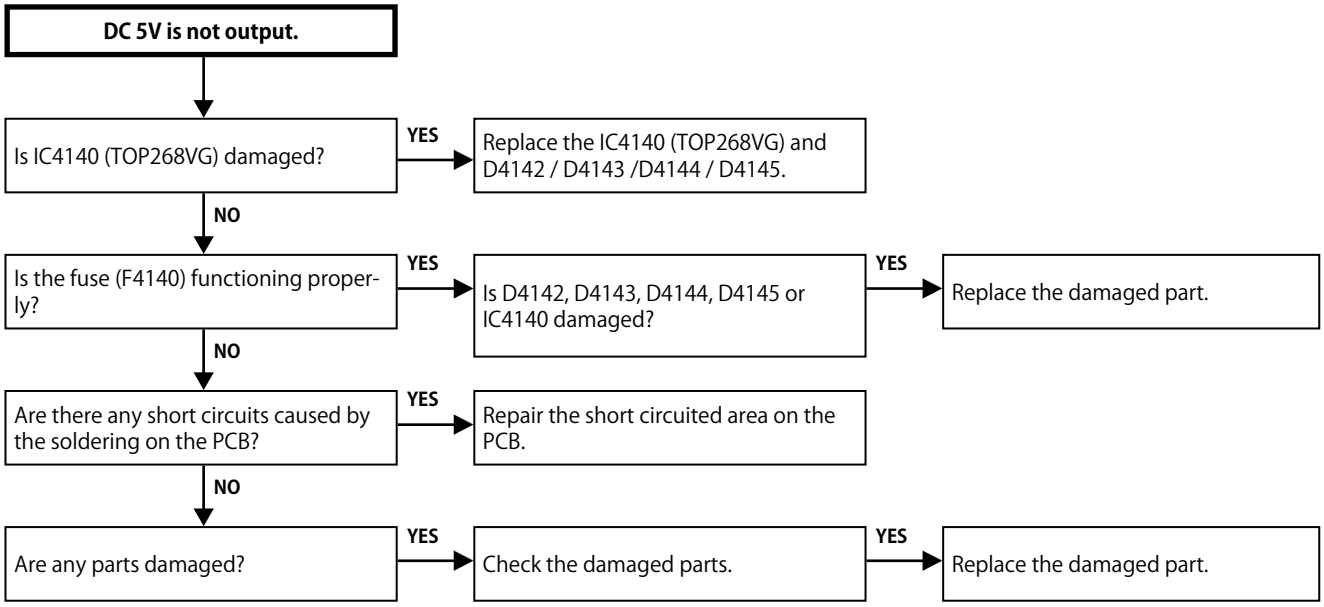
(B SIDE)

USB test point

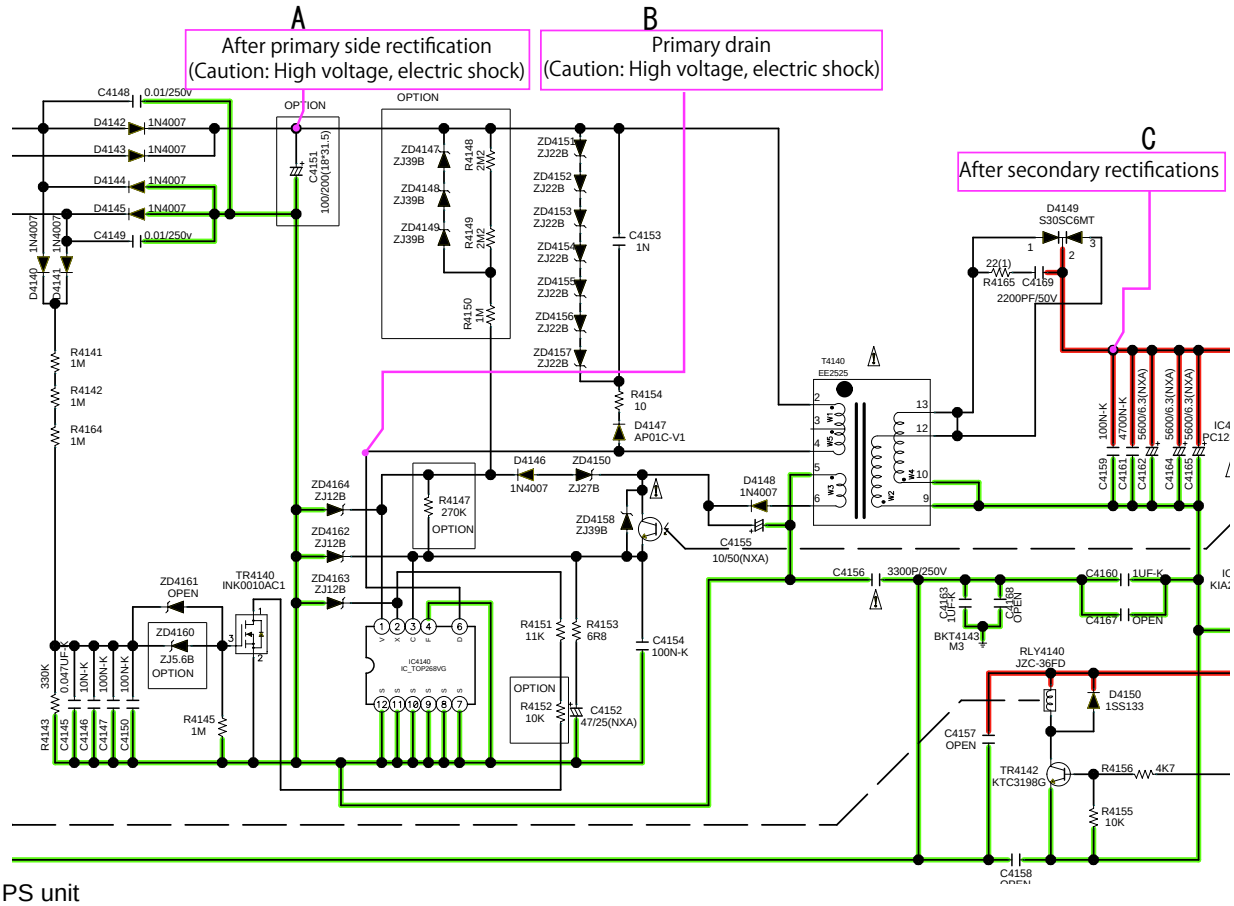


(A SIDE)

6. SMPS

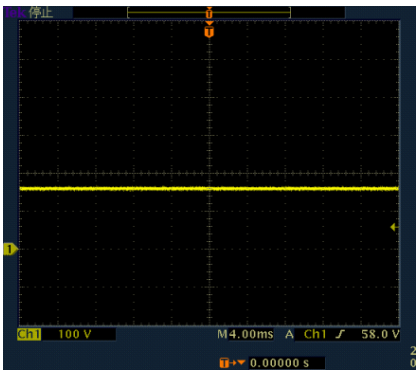

DC 5V is not output.
Is IC4140 (TOP268VG) damaged?
YES
Replace the IC4140 (TOP268VG) and D4142 / D4143 /D4144 / D4145.
NO
Is the fuse (F4140) functioning properly?
YES
Is D4142, D4143, D4144, D4145 or IC4140 damaged?
YES
Replace the damaged part.
NO
Are there any short circuits caused by the soldering 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

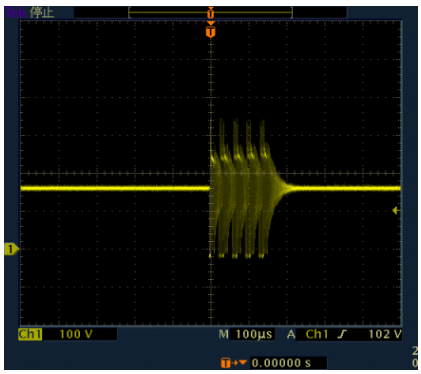


SMPS unit
(Unloaded)

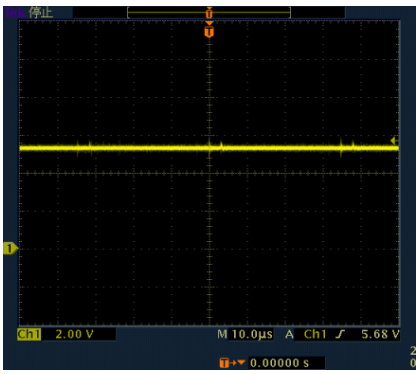
A



B

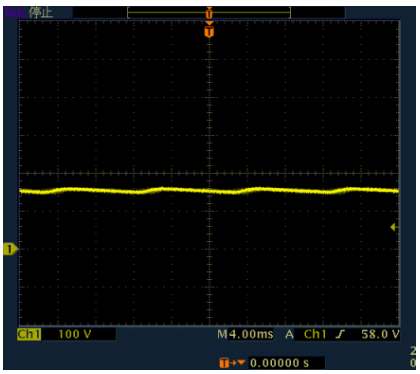


C

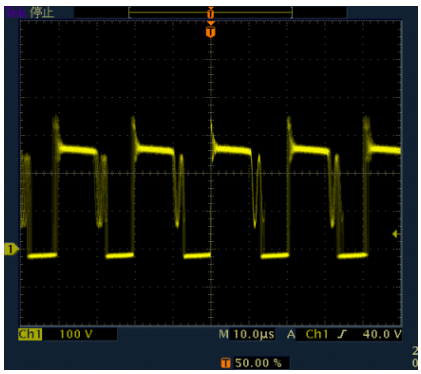


Set

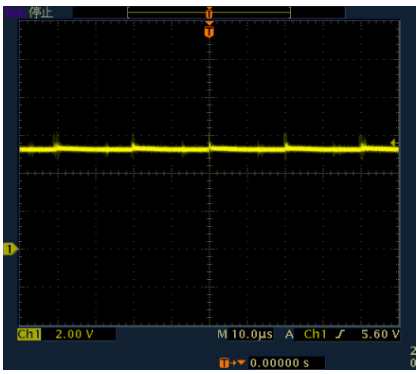
A



B

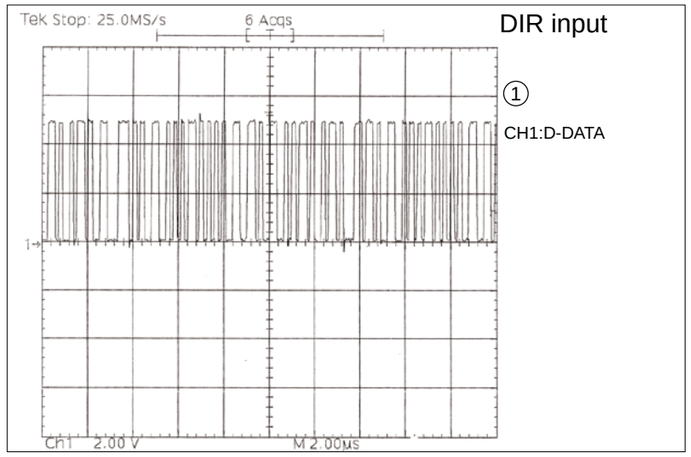


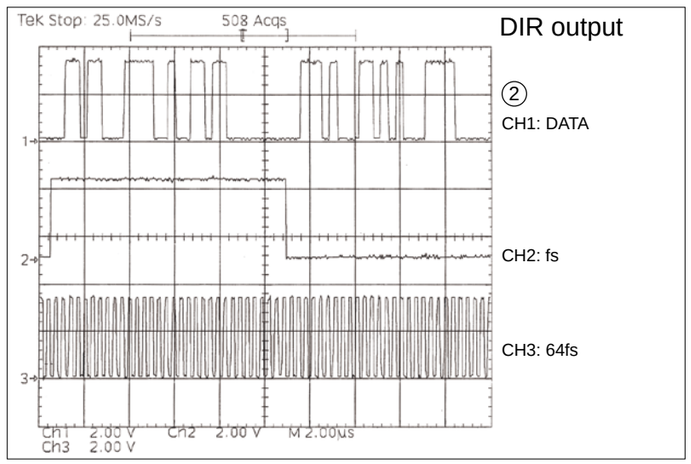
C

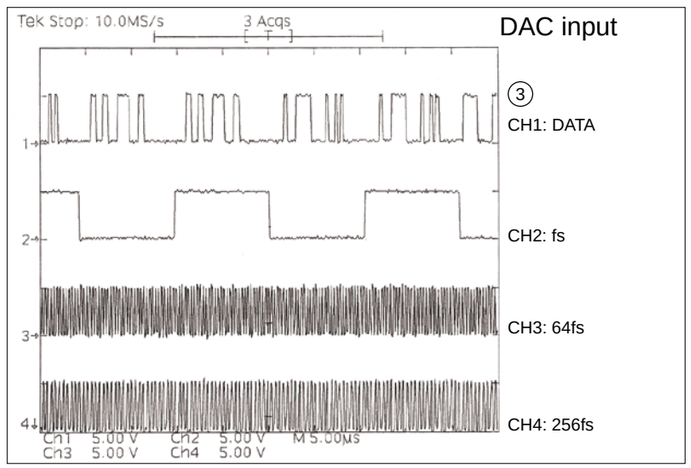


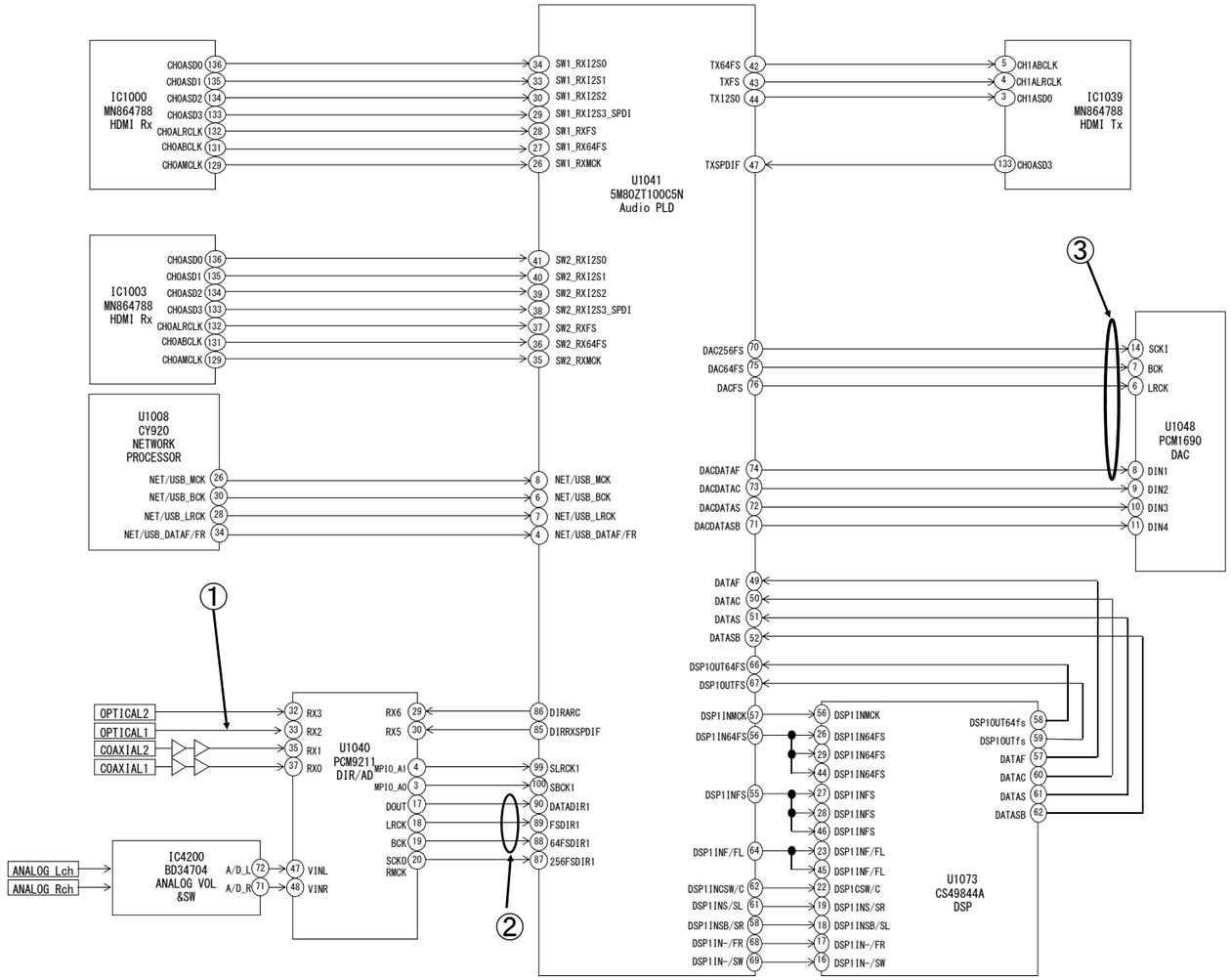
CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

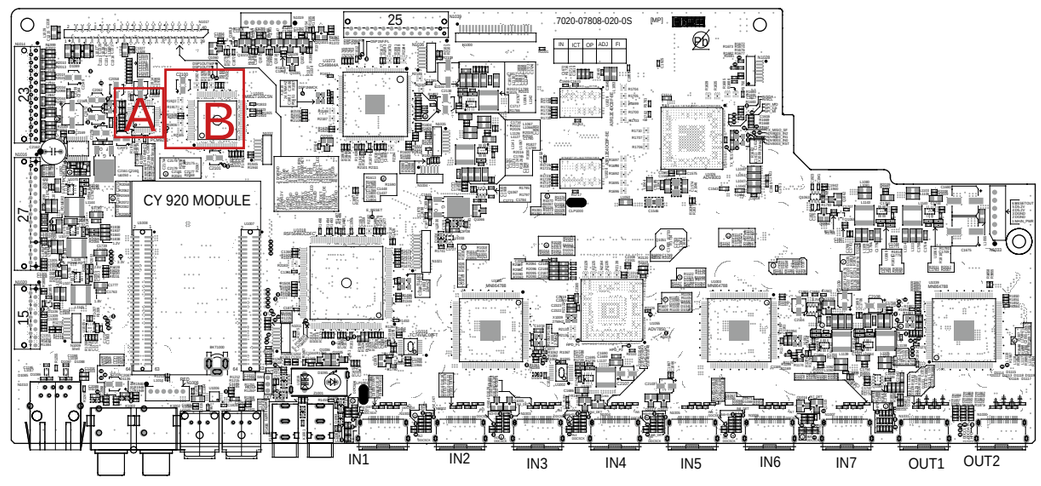
WAVE FORM



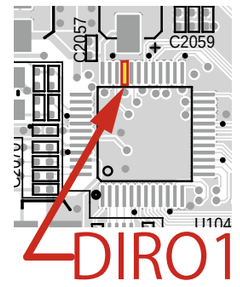




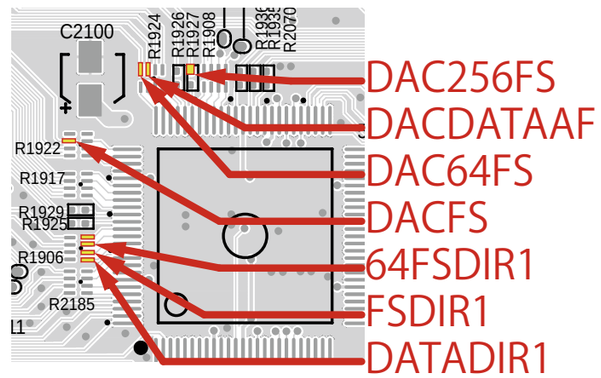




Detail A

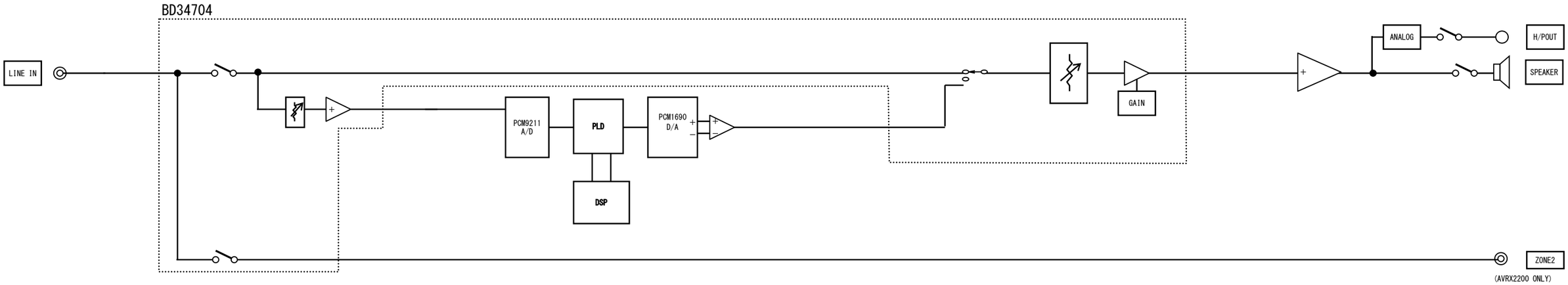


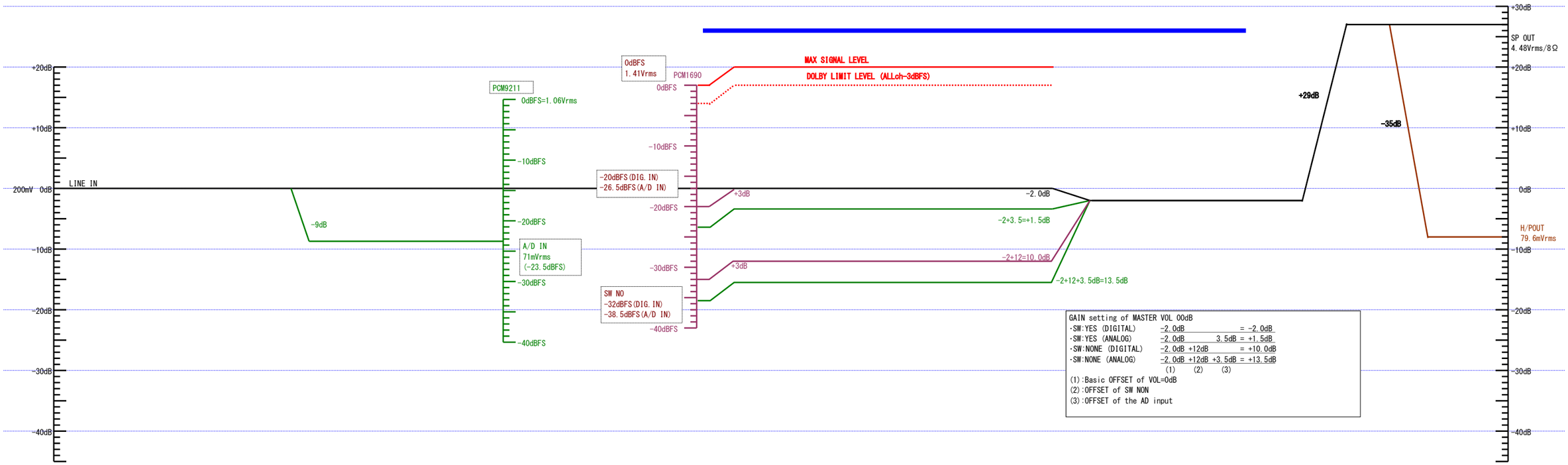
Detail B



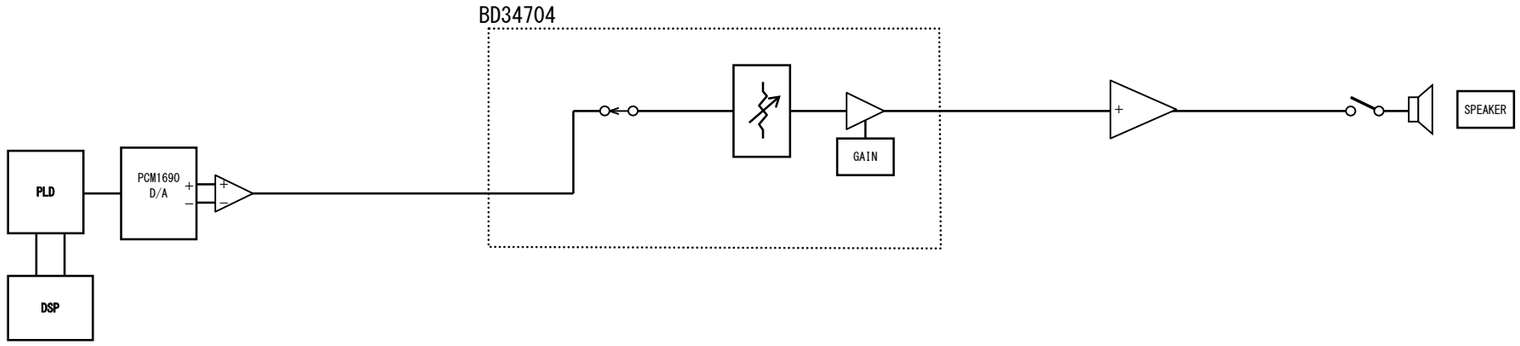
LEVEL DIAGRAM

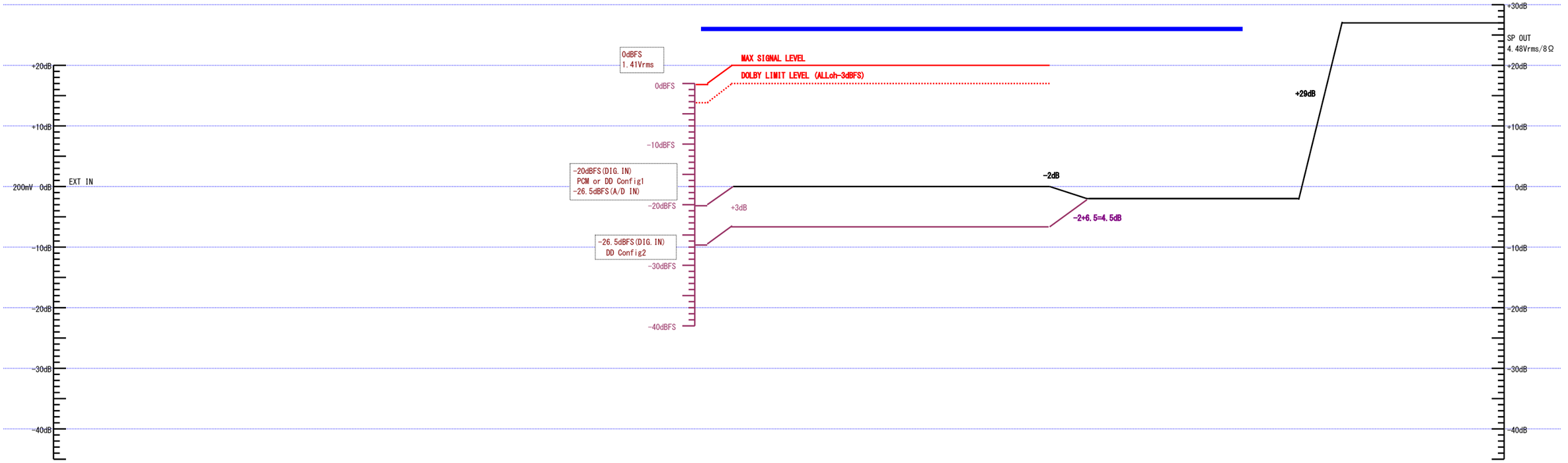
AVR-S910W/X2200W
LEVEL DIAGRAM
FRONT ch



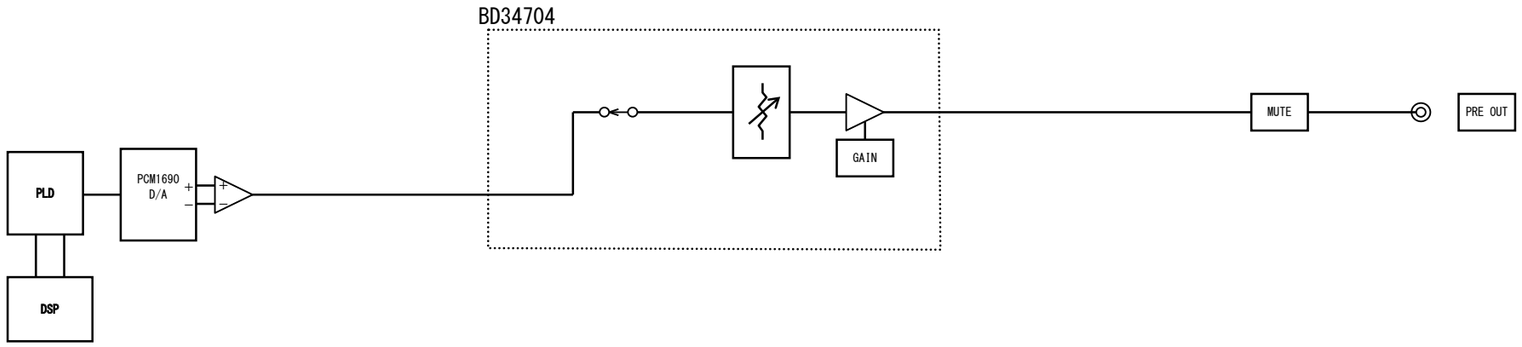


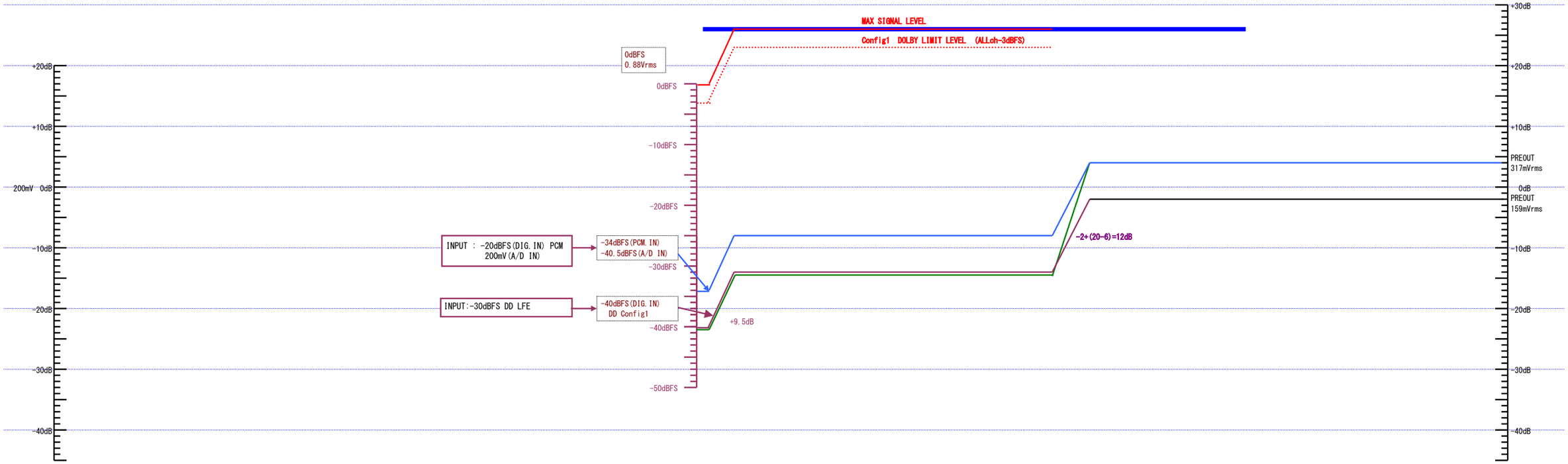
AVR-S910W/X2200W
LEVEL DIAGRAM
CENTER ch



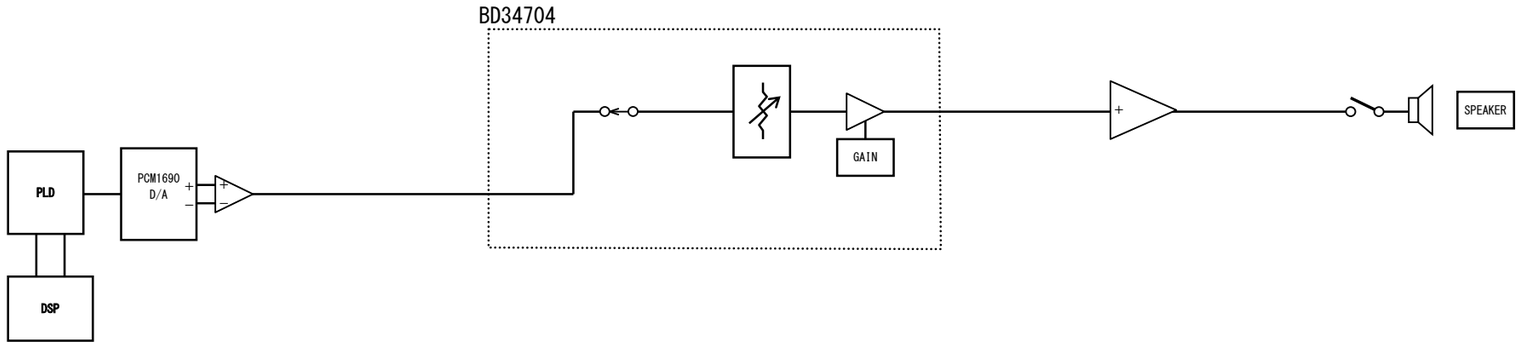


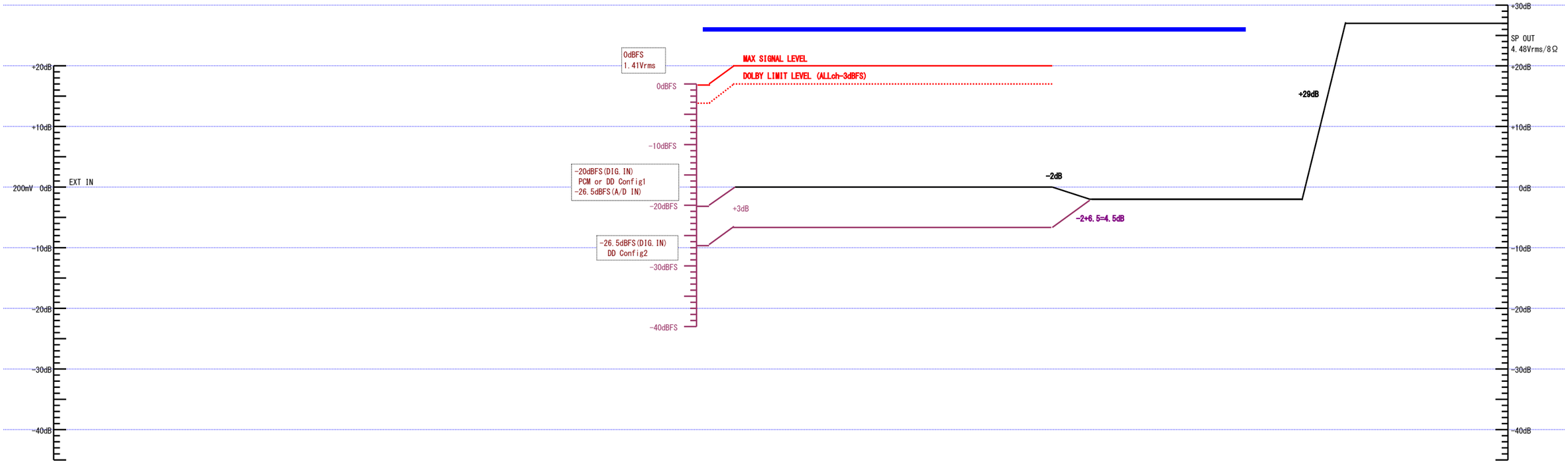
AVR-S910W/X2200W
LEVEL DIAGRAM
SUBWOOFER ch



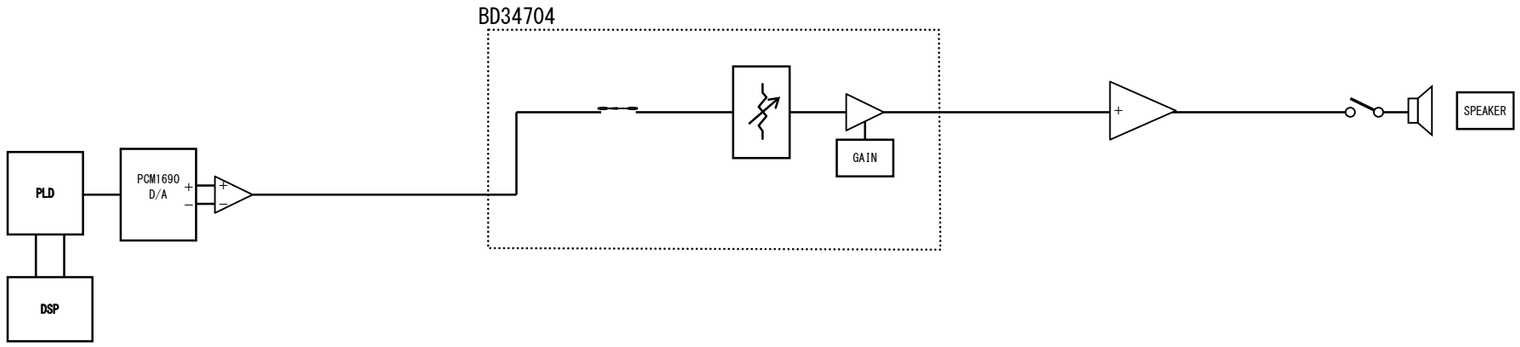


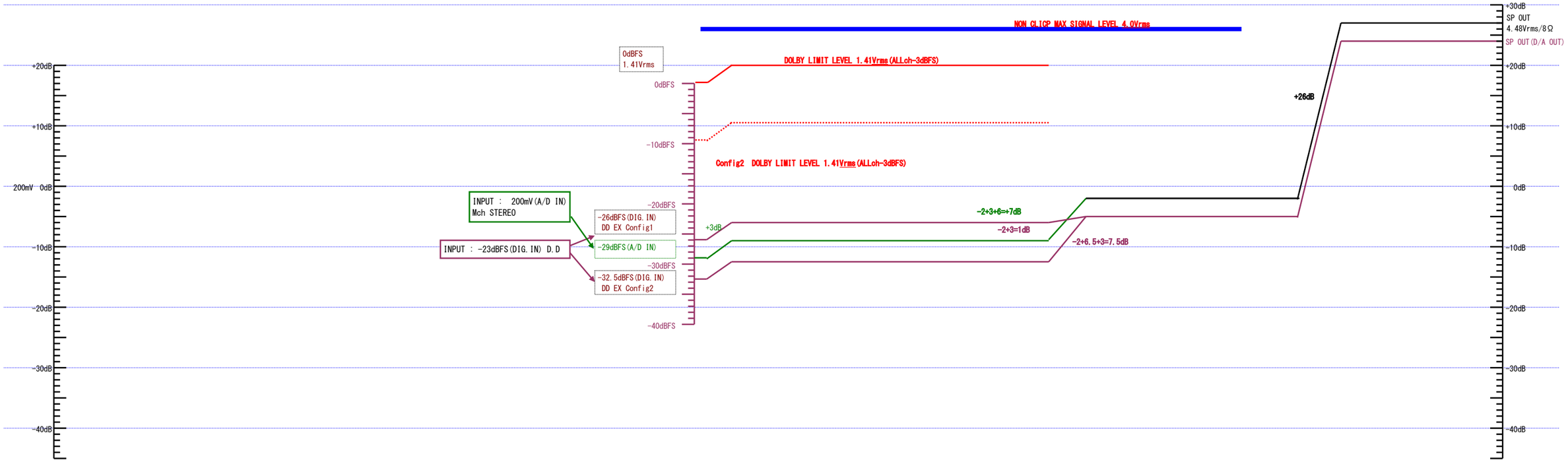
AVR-S910W/X2200W
LEVEL DIAGRAM
SURROUND ch





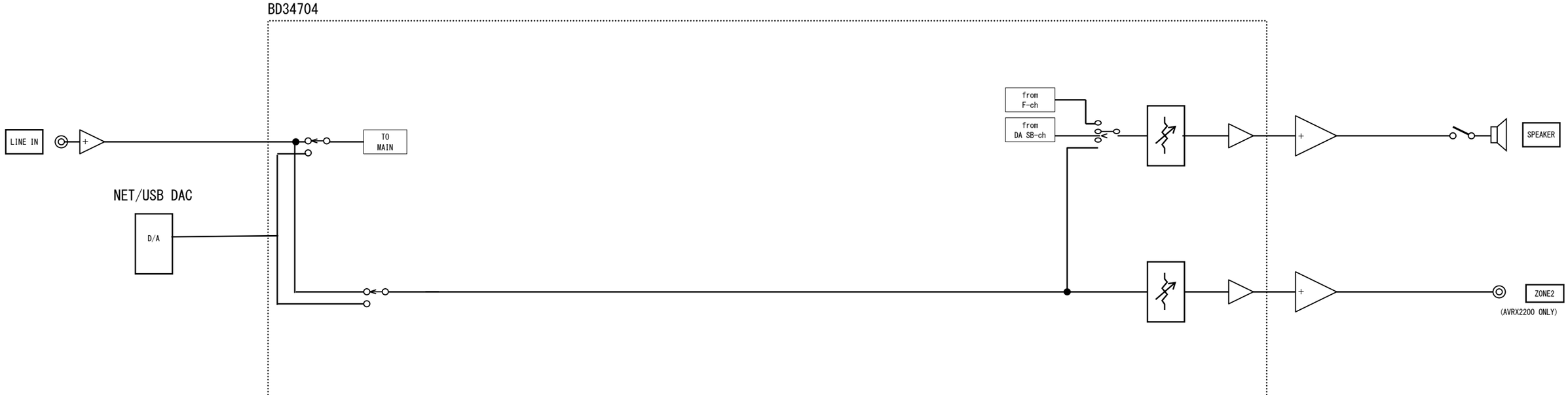
AVR-S910W/X2200W
LEVEL DIAGRAM
SURR.BACK ch





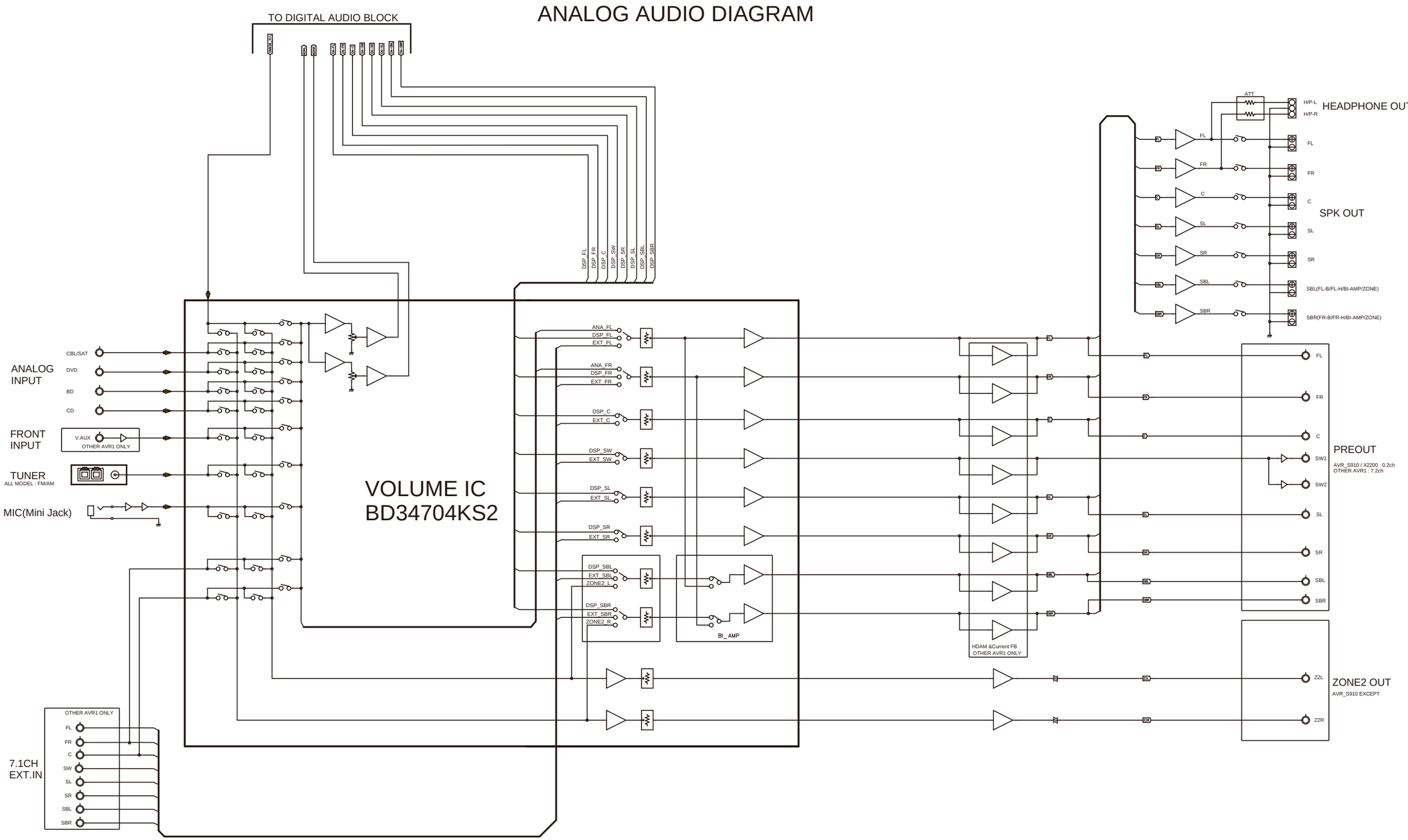
AVR-S910W/X2200W
LEVEL DIAGRAM
ZONE2

BD34704

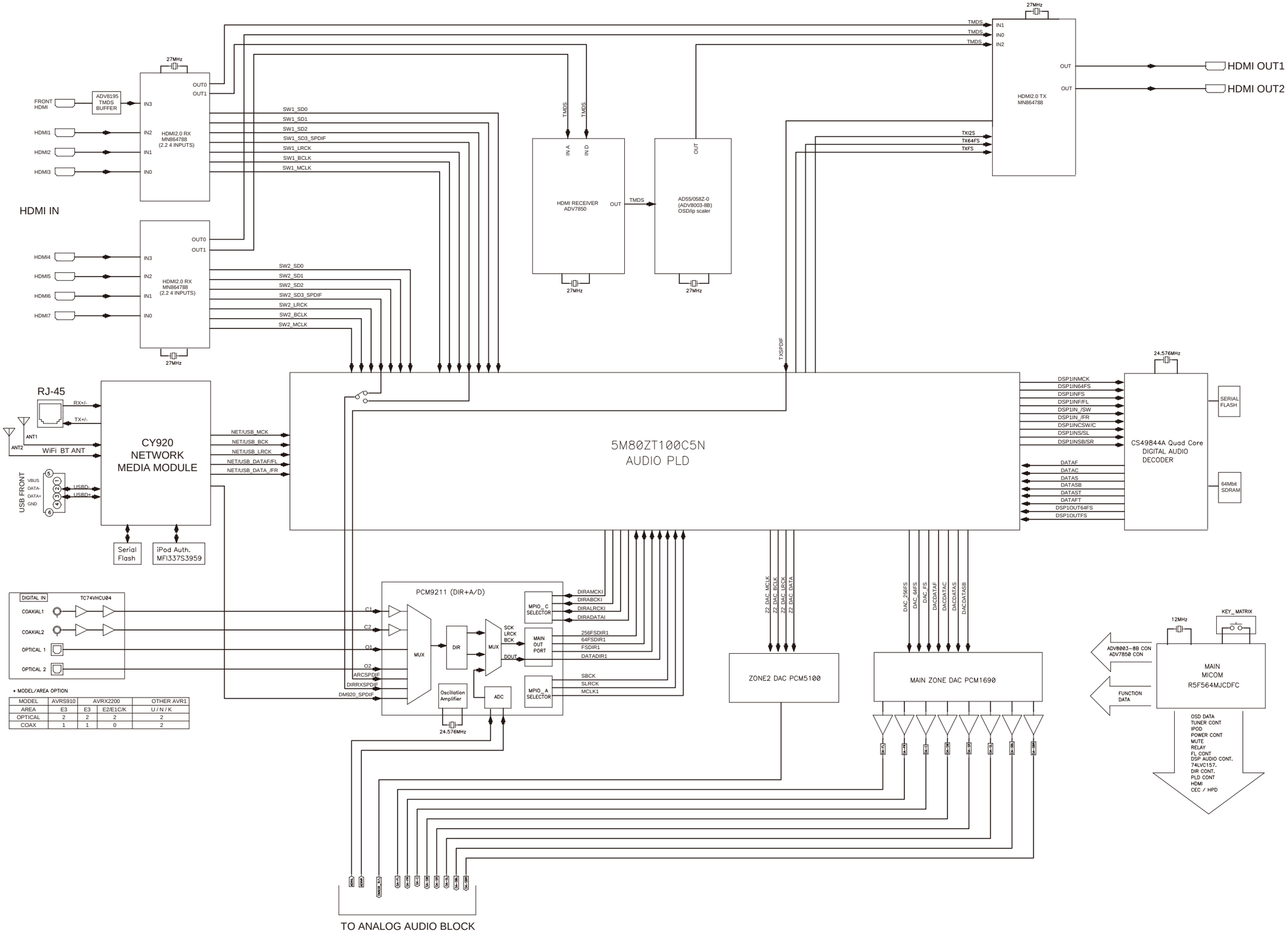


BLOCK DIAGRAM

ANALOG AUDIO DIAGRAM



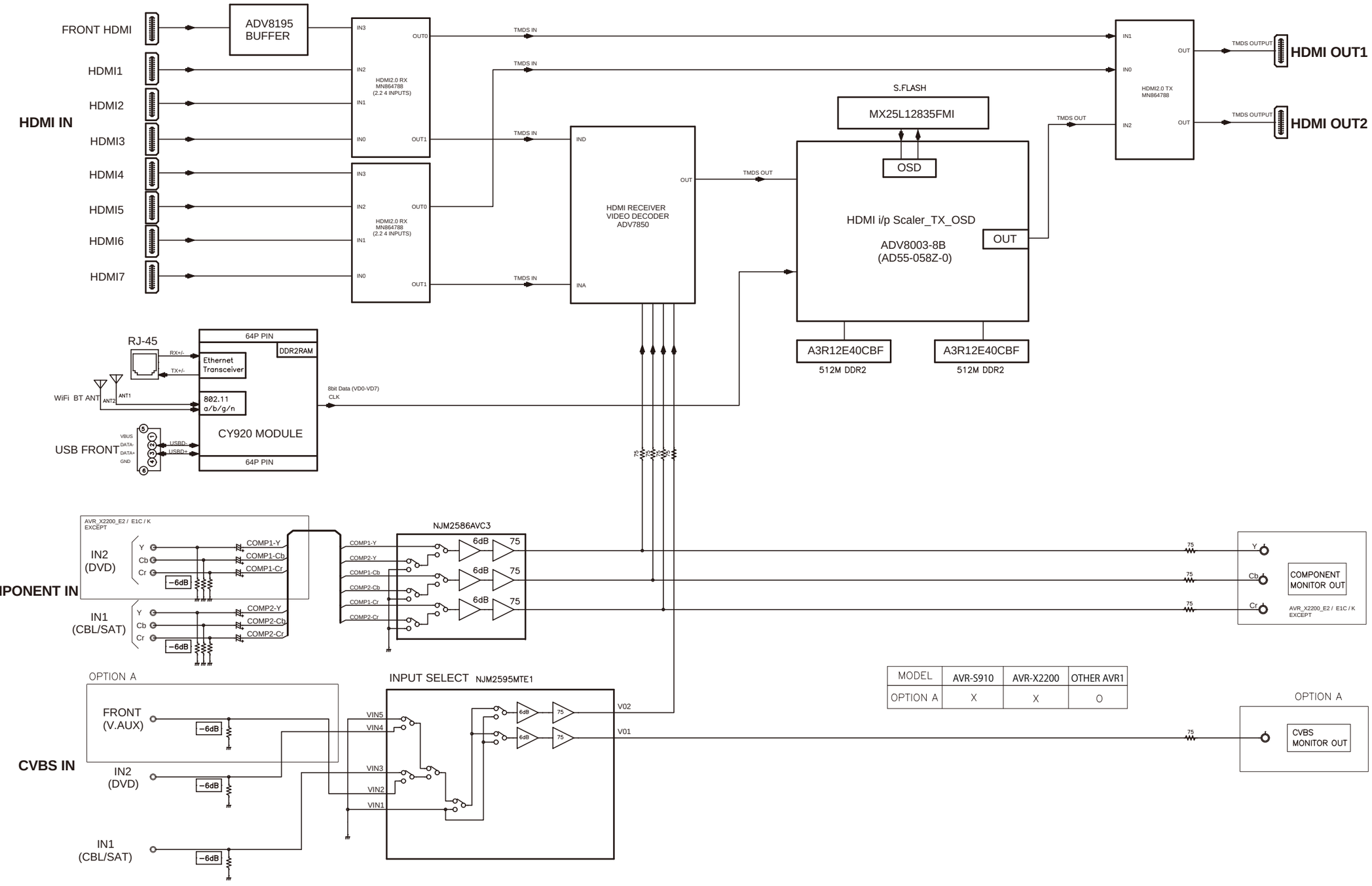
DIGITAL AUDIO DIAGRAM



• MODEL/AREA OPTION

MODEL	AVRS910	AVRX2200		OTHER AVR1
AREA	E3	E3	E2/E1C/K	U / N / K
OPTICAL	2	2	2	2
COAX	1	1	0	2

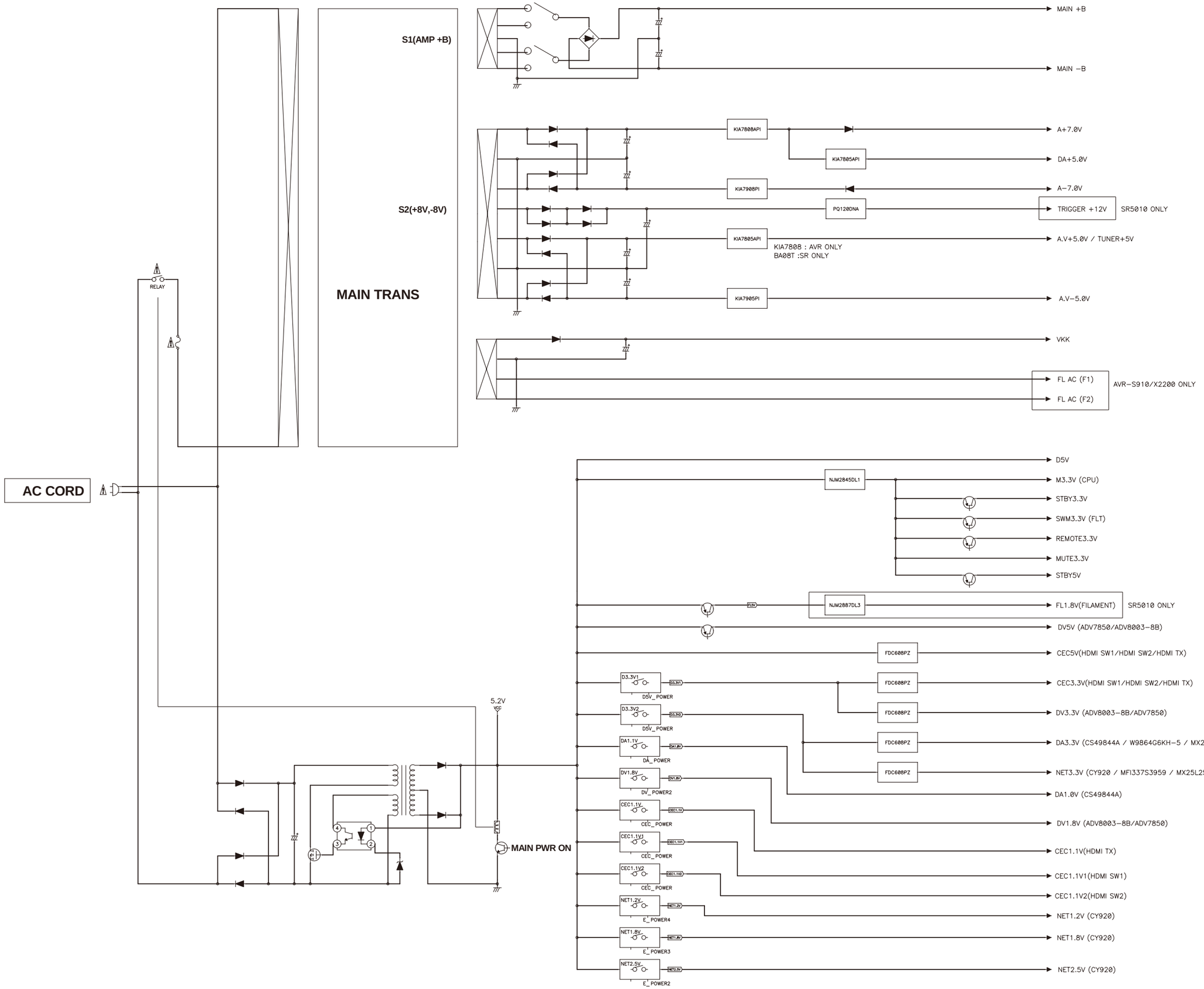
VIDEO DIAGRAM



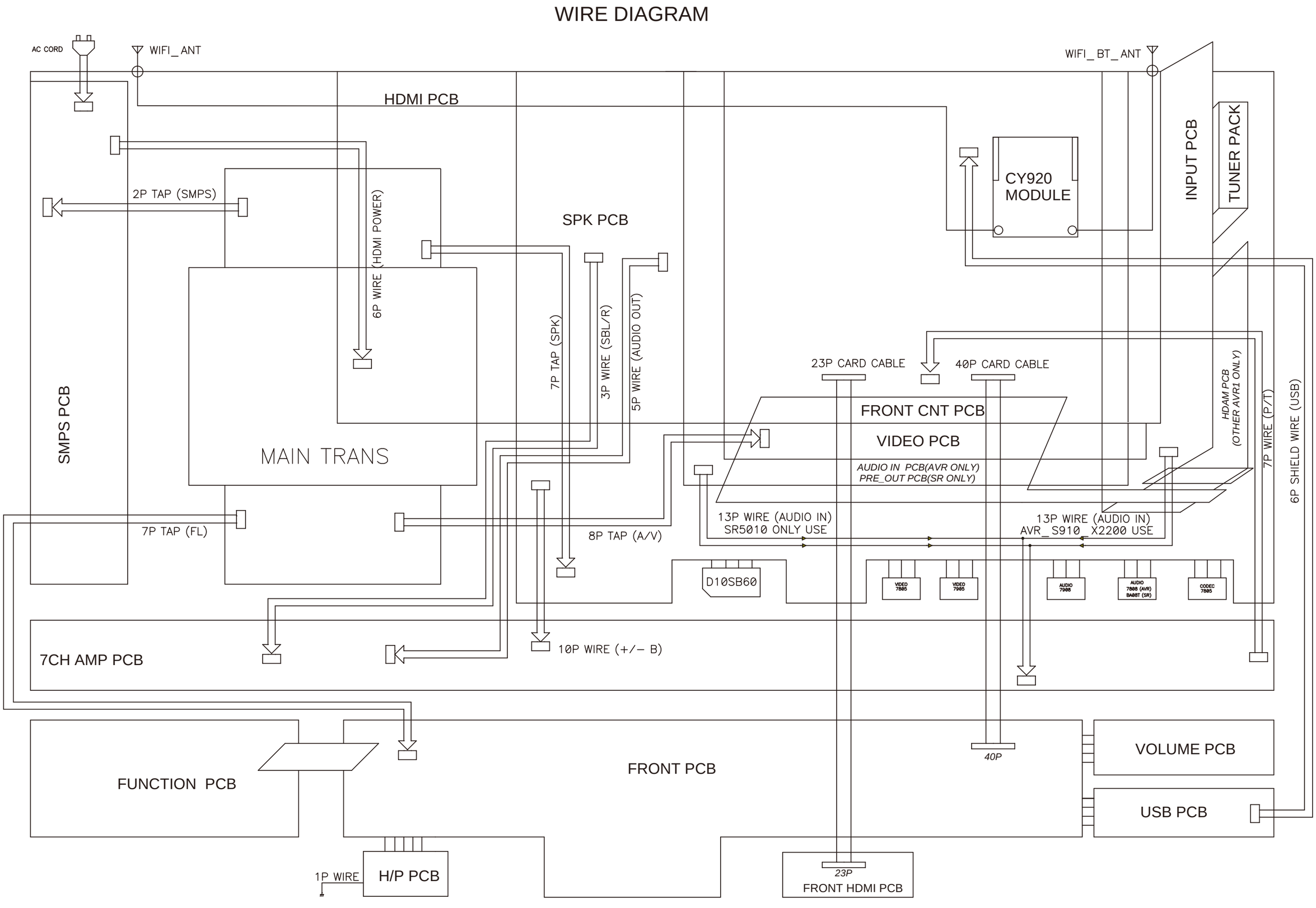
MODEL	AVR-S910	AVR-X2200	OTHER AVR1
OPTION A	X	X	O

POWER DIAGRAM

VCC DIAGRAM



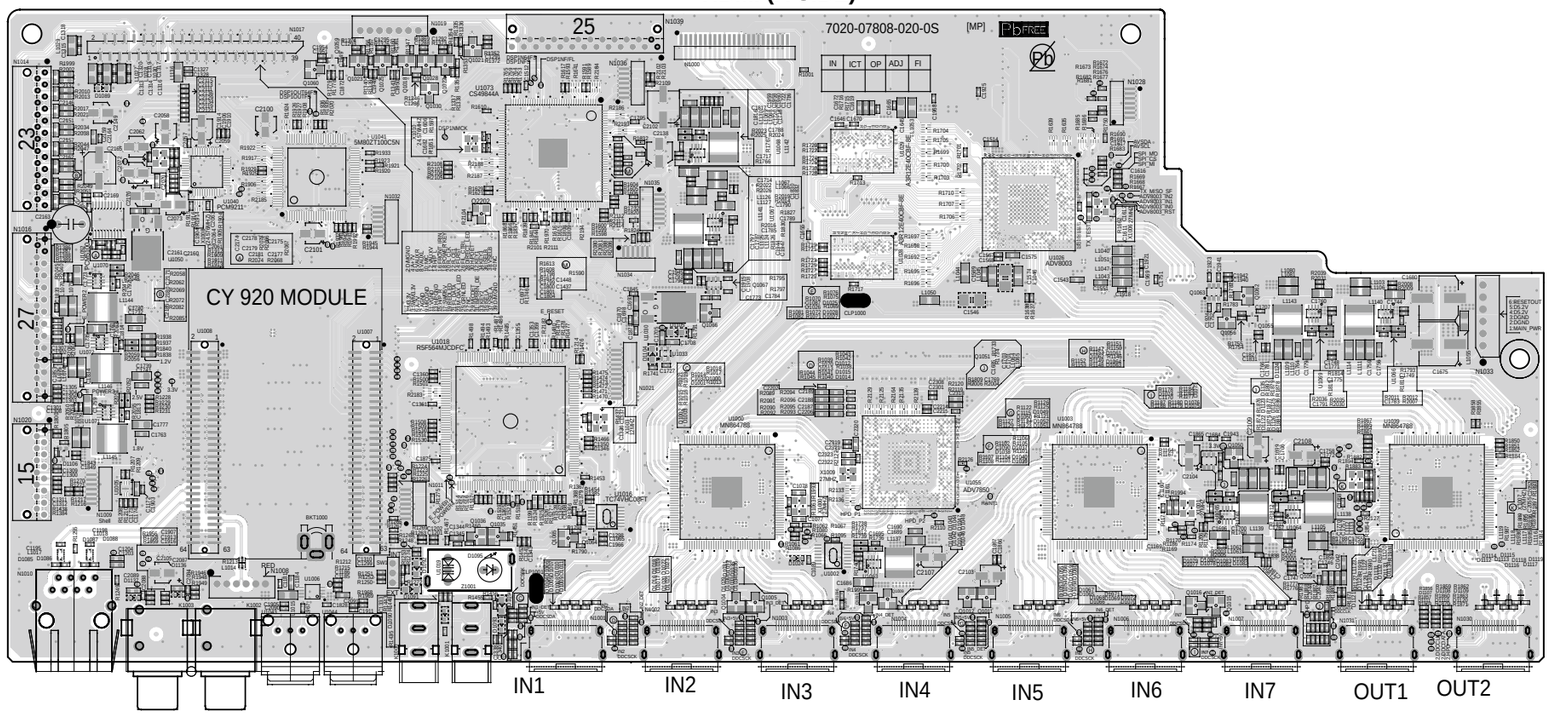
WIRING DIAGRAM



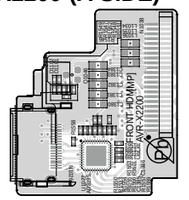
PRINTED WIRING BOARDS

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

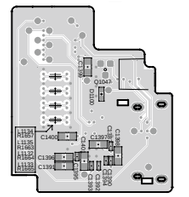
HDMI (A SIDE)



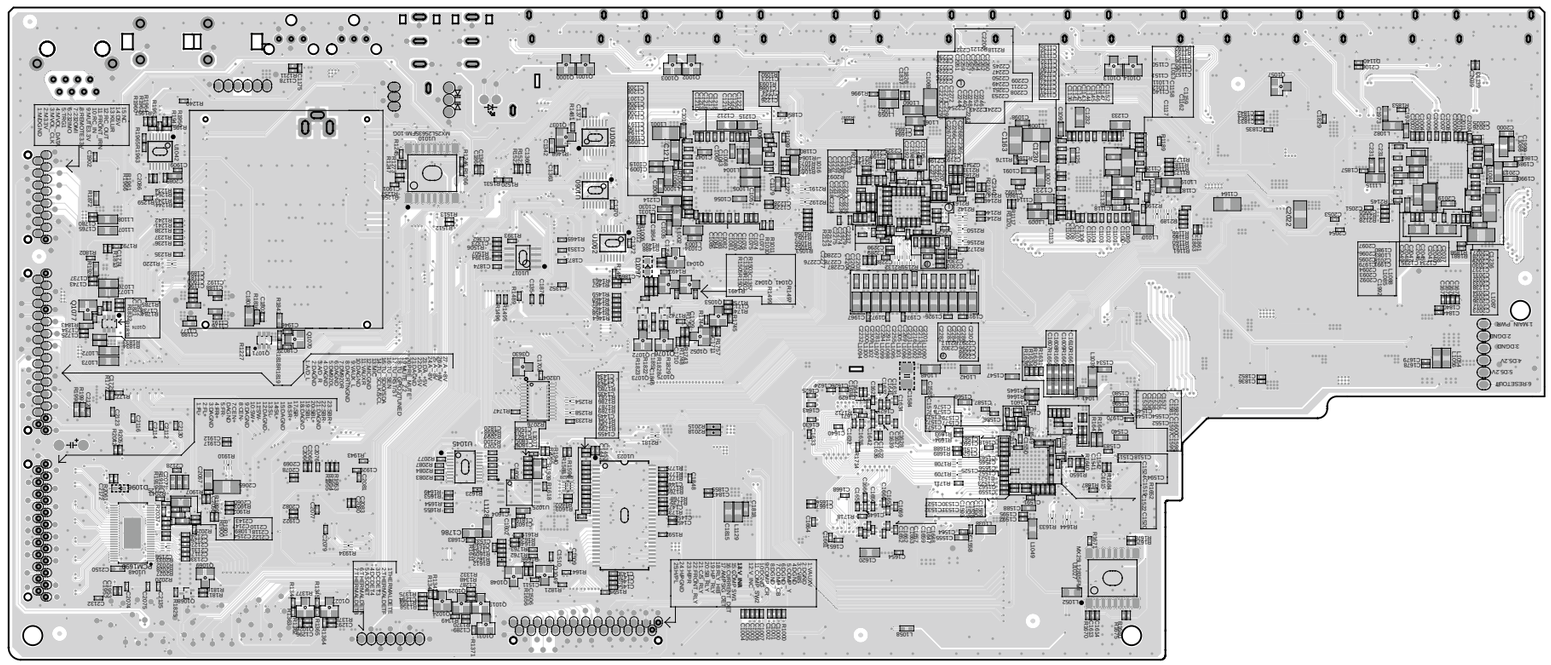
F HDMI_X2200 (A SIDE)



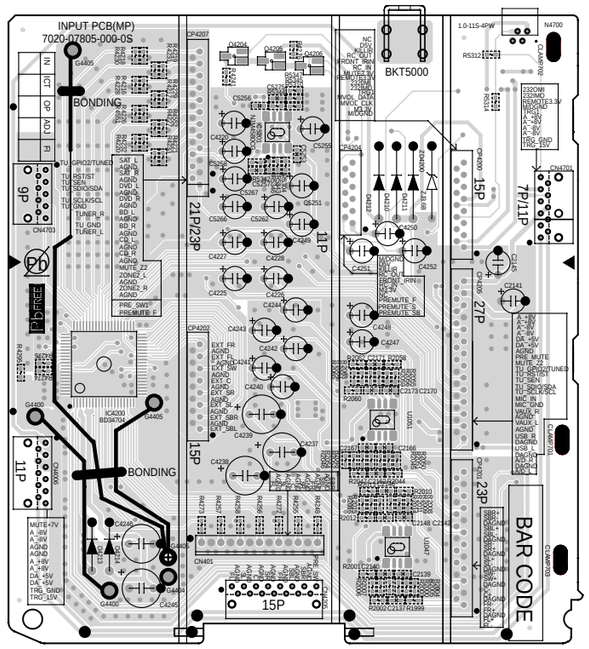
F HDMI_X2200 (B SIDE)



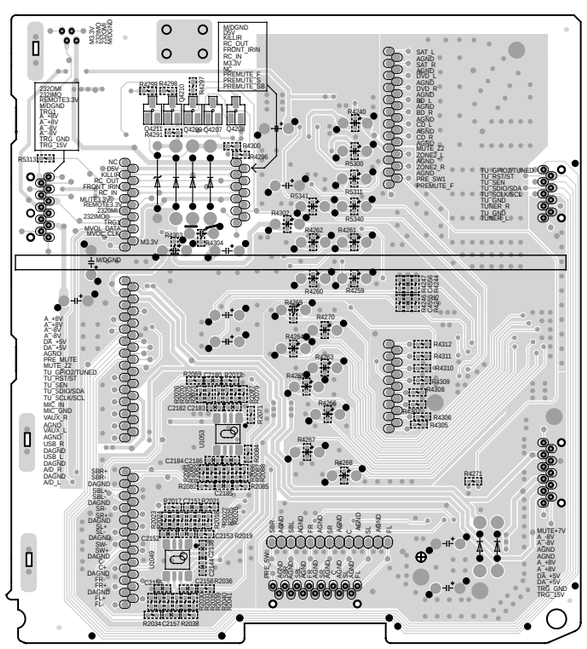
HDMI (B SIDE)



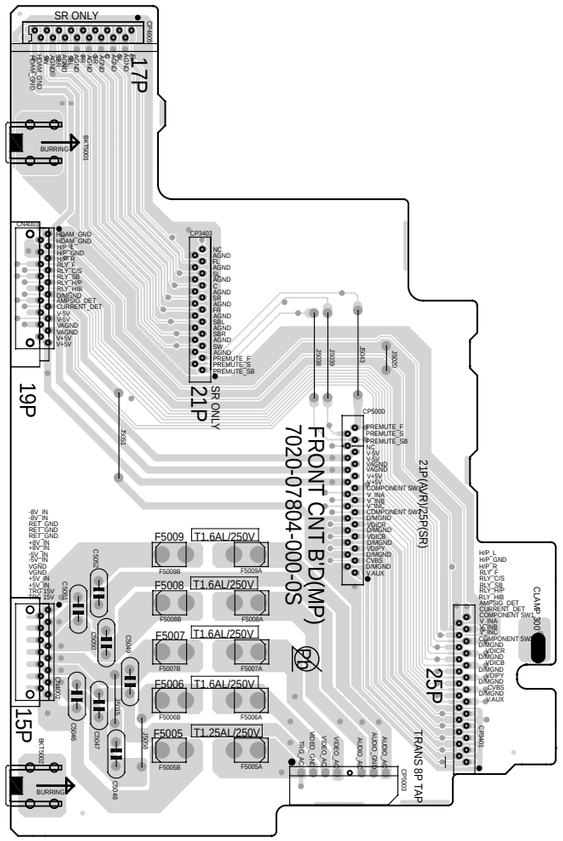
INPUT (A SIDE)



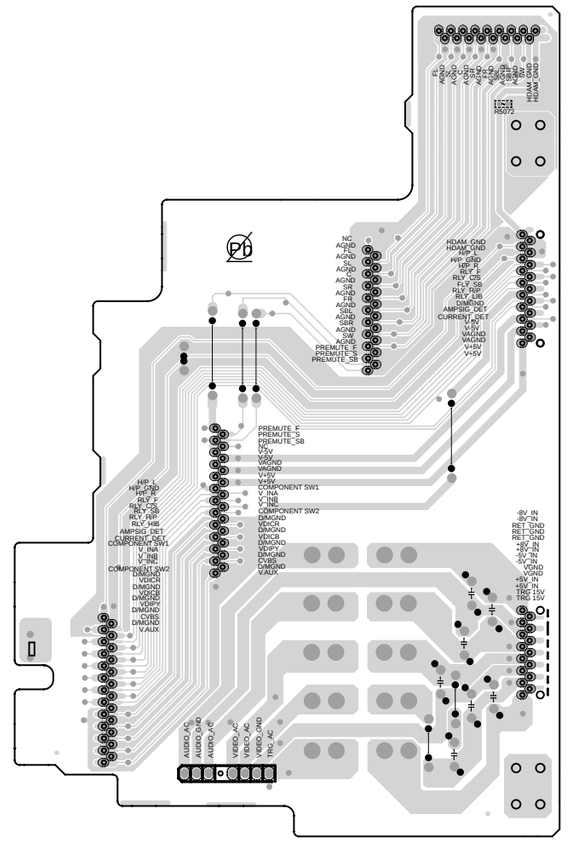
INPUT (B SIDE)



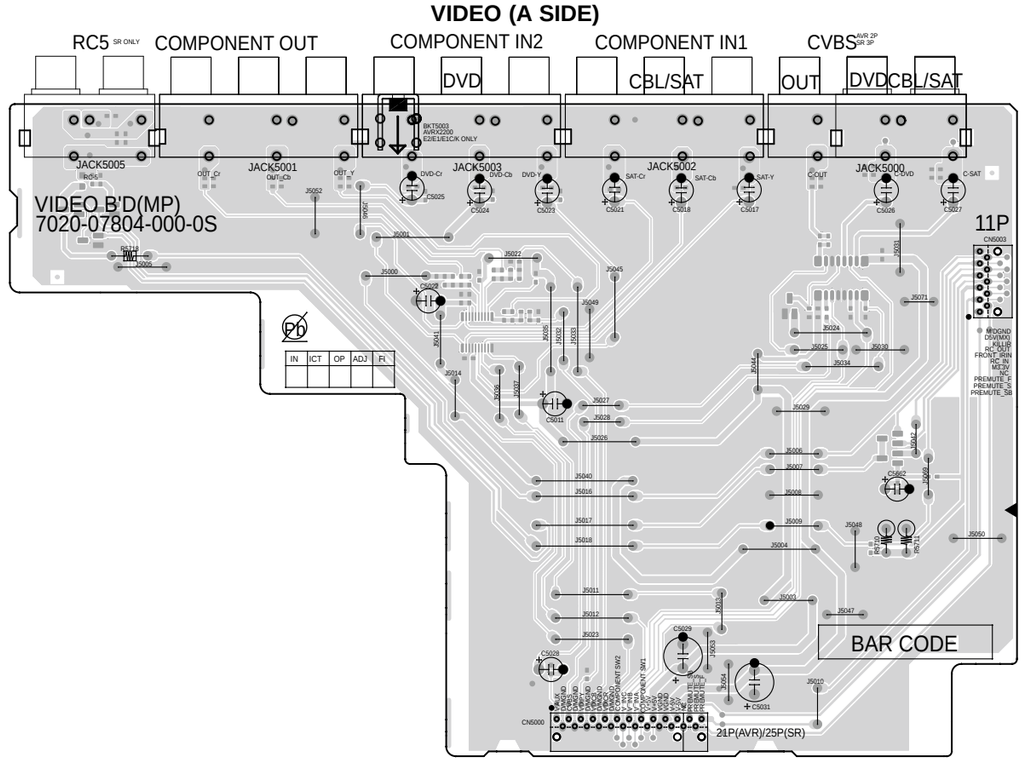
FRONT CNT (A SIDE)



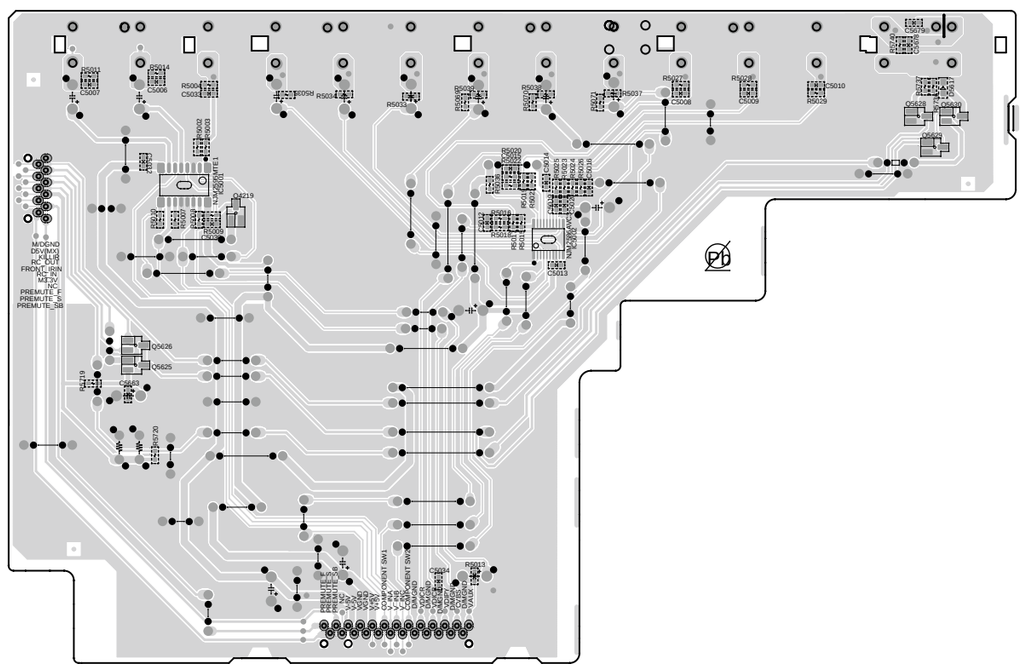
FRONT CNT (B SIDE)



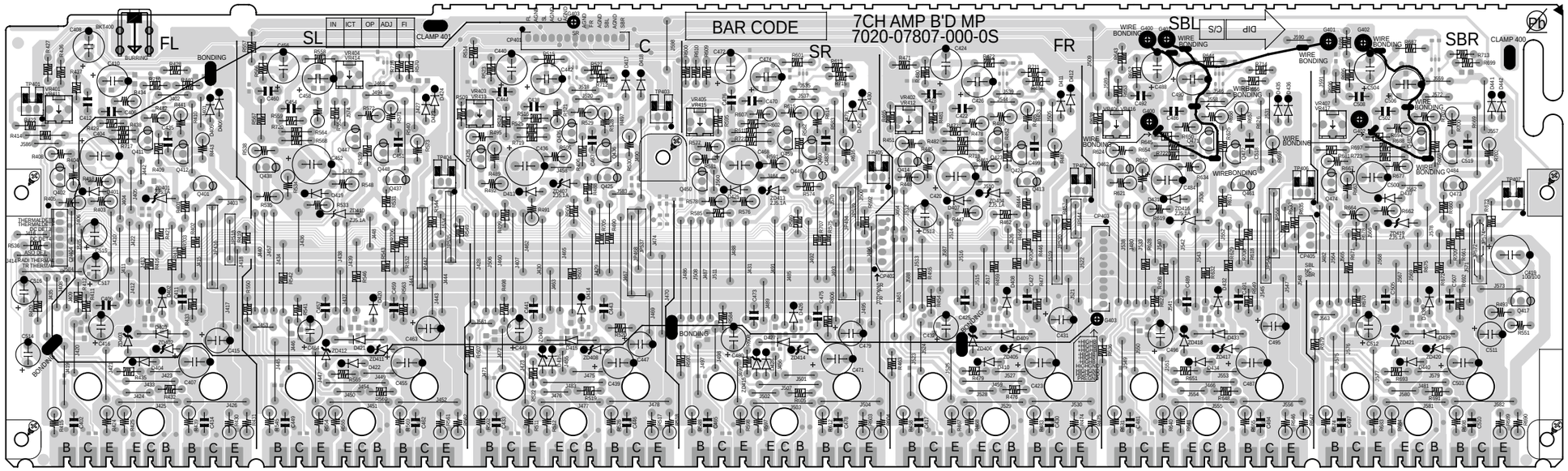
VIDEO (A SIDE)



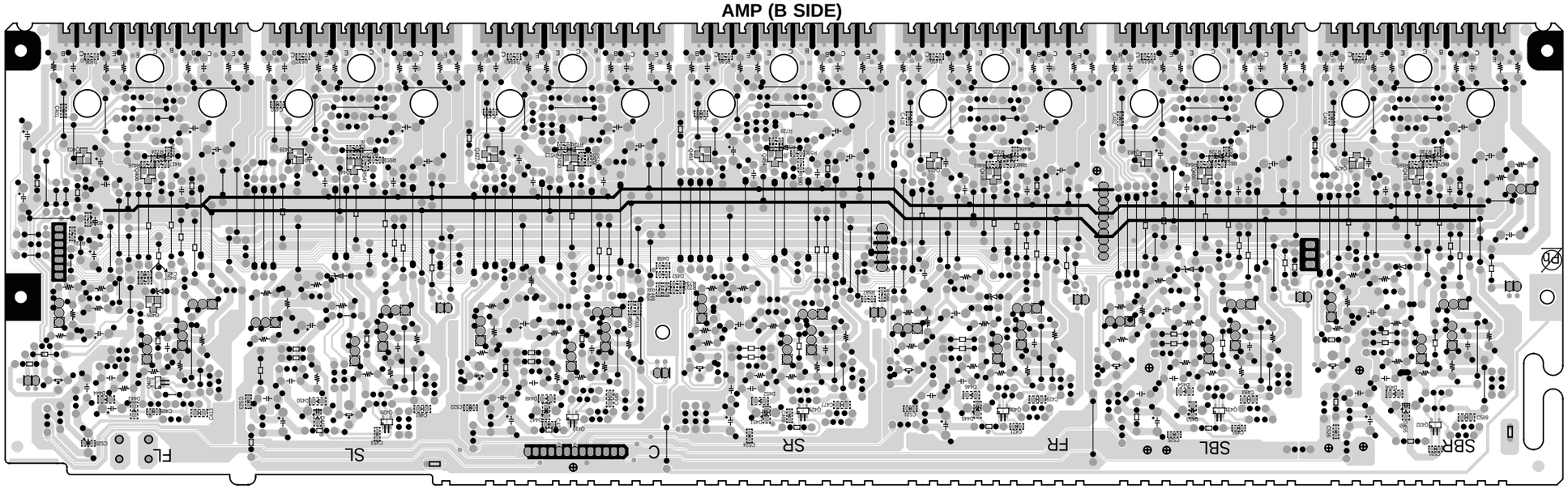
VIDEO (B SIDE)



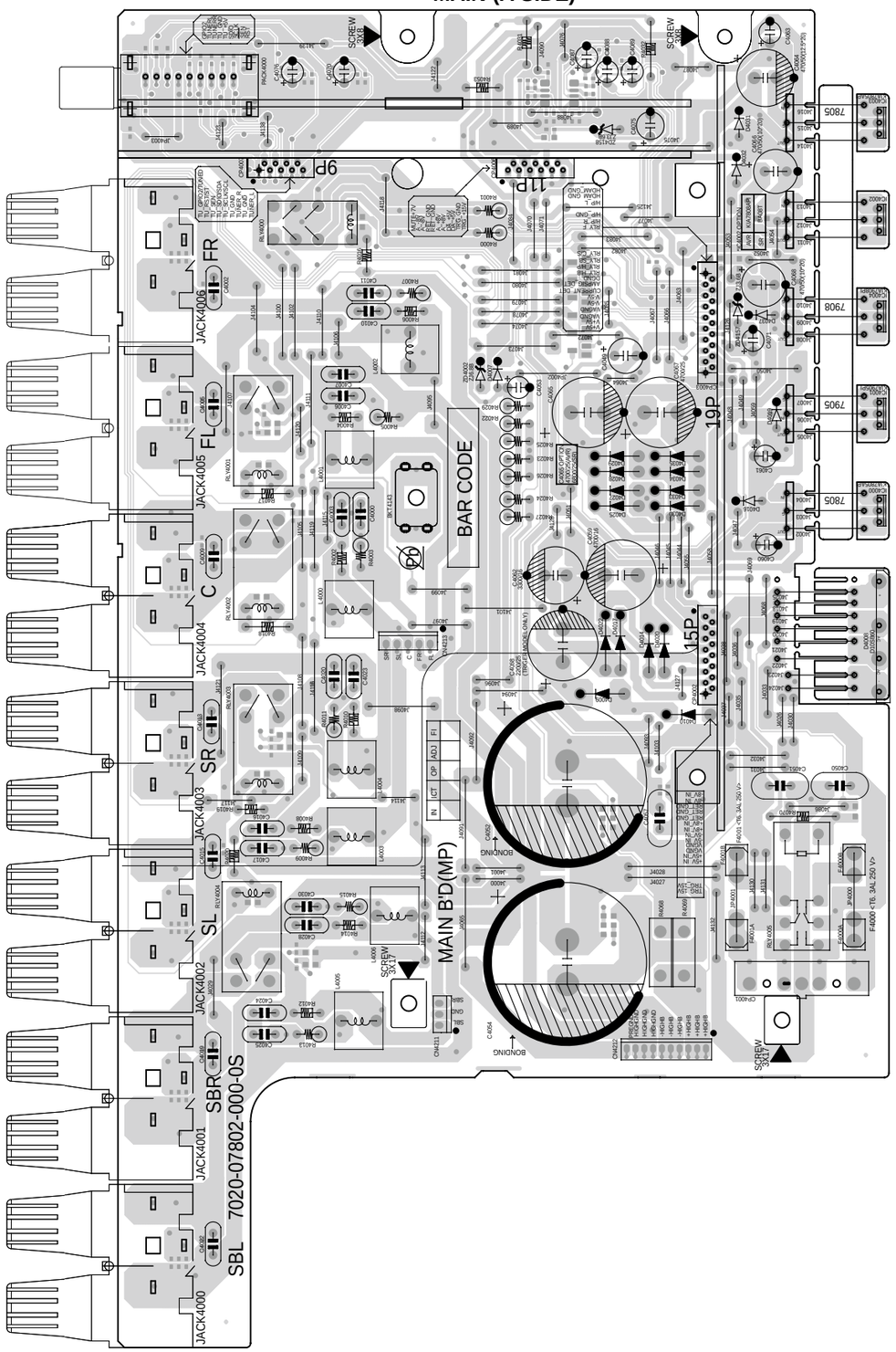
AMP (A SIDE)



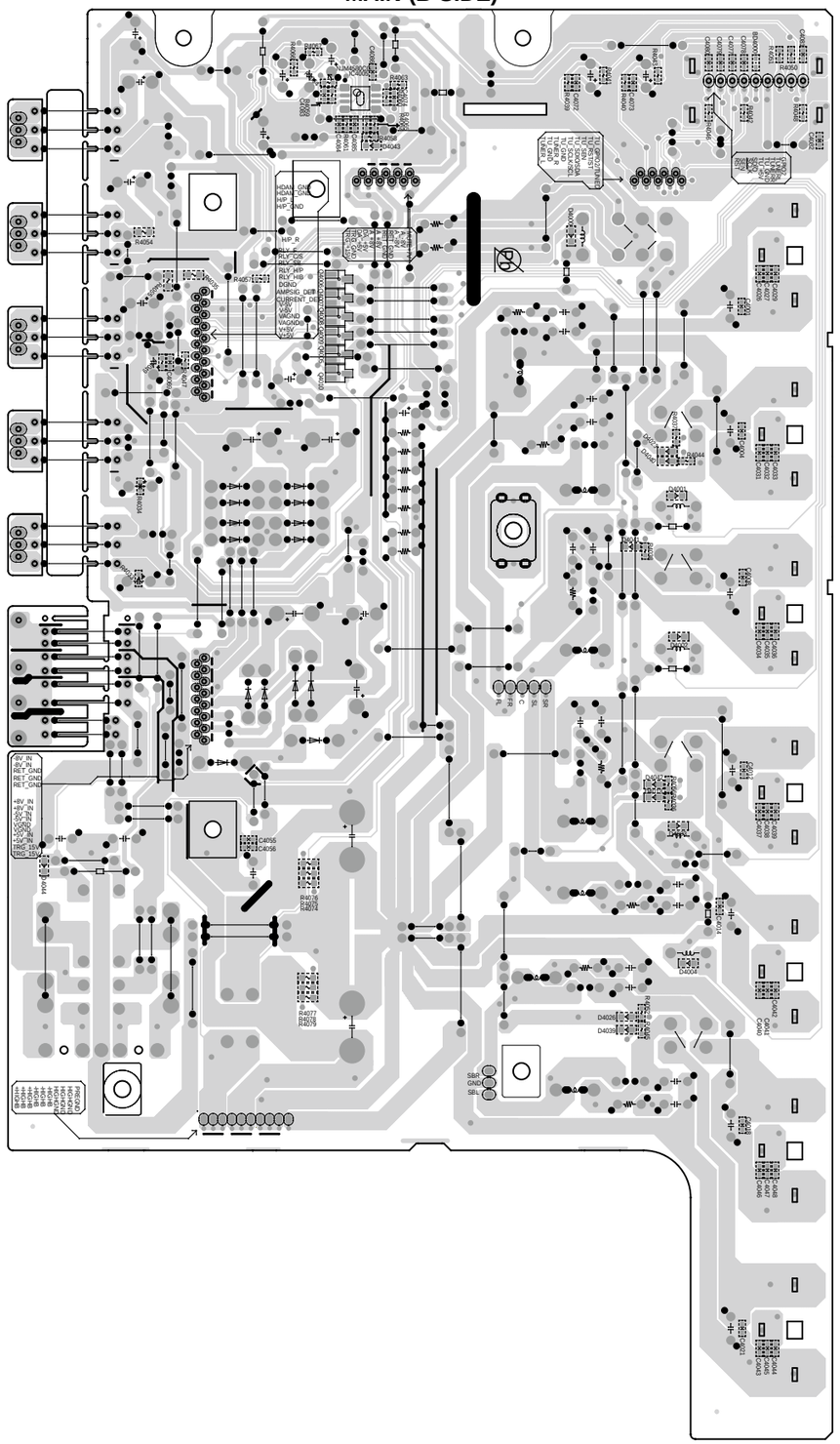
AMP (B SIDE)



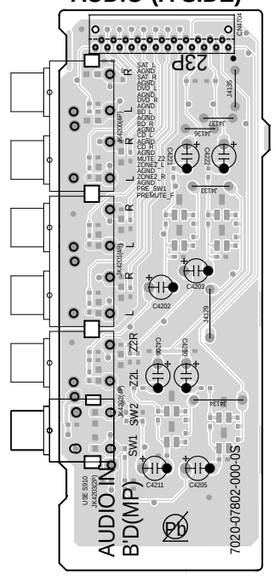
MAIN (A SIDE)



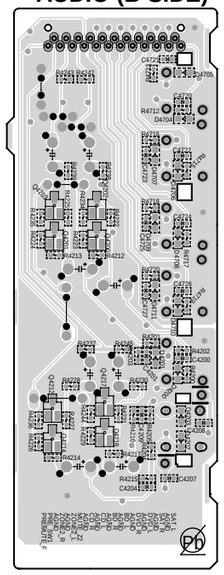
MAIN (B SIDE)



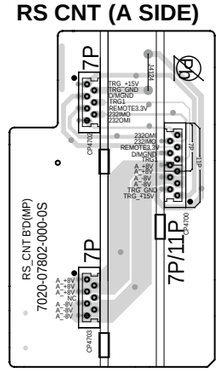
AUDIO (A SIDE)



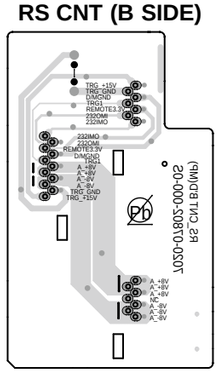
AUDIO (B SIDE)



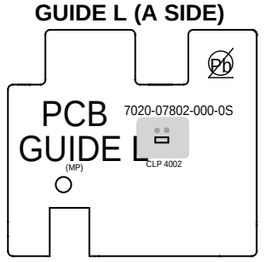
RS CNT (A SIDE)



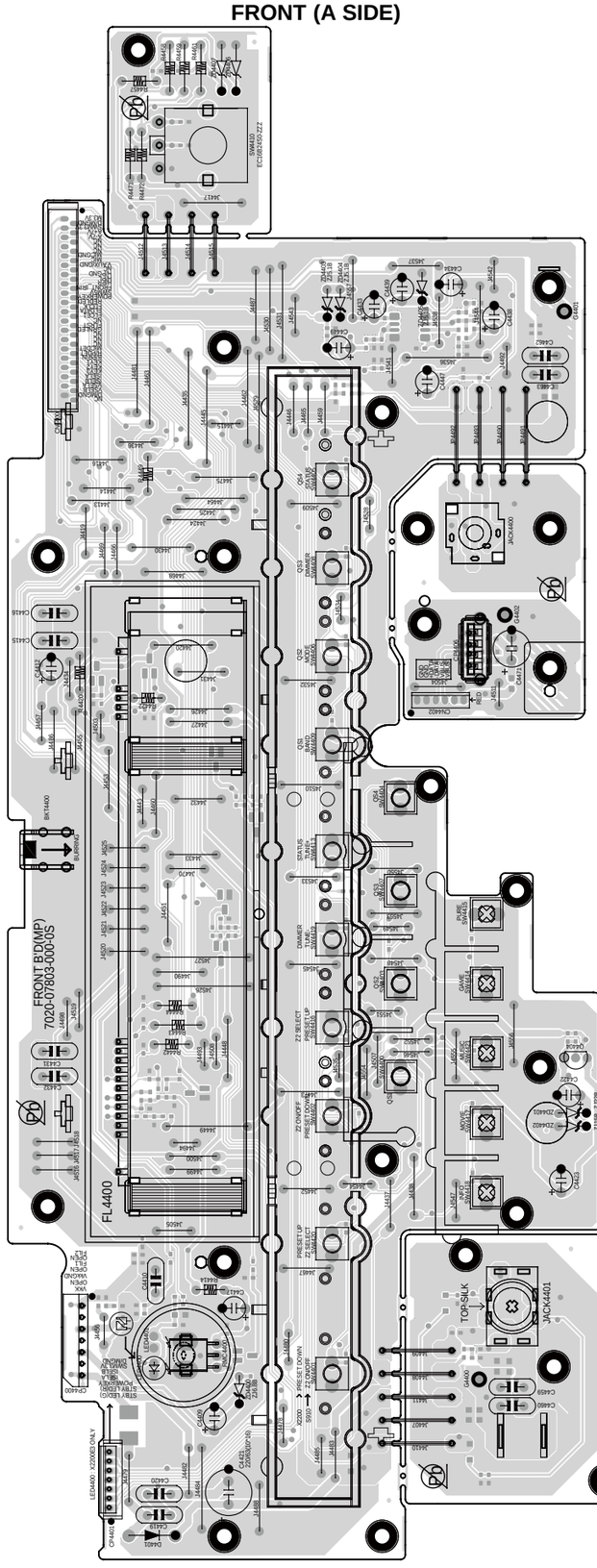
RS CNT (B SIDE)



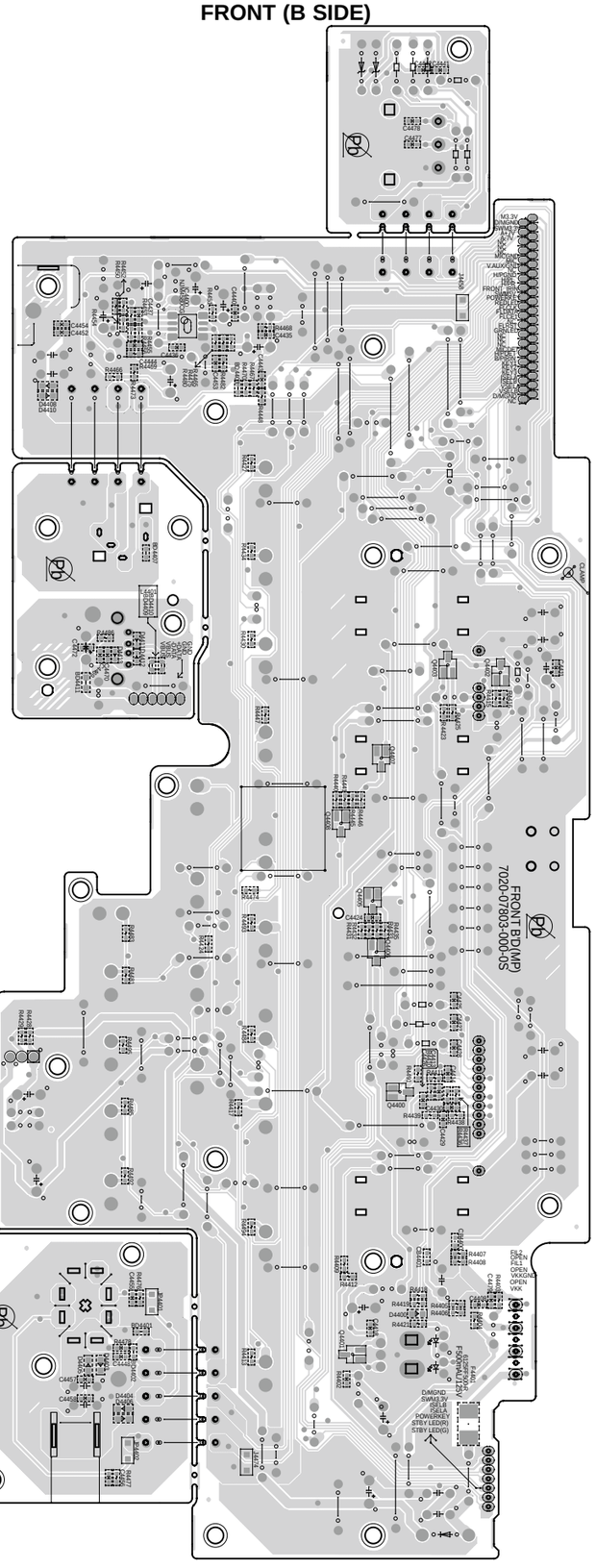
GUIDE L (A SIDE)



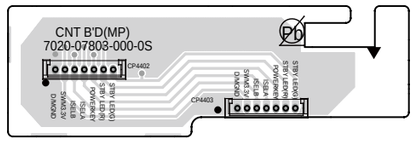
FRONT (A SIDE)



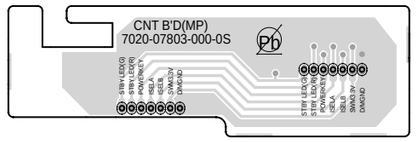
FRONT (B SIDE)



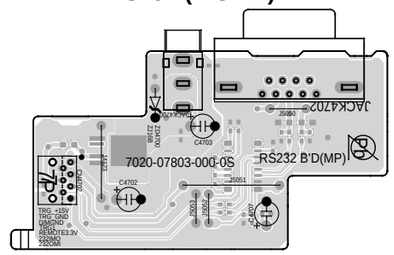
CNT (A SIDE)



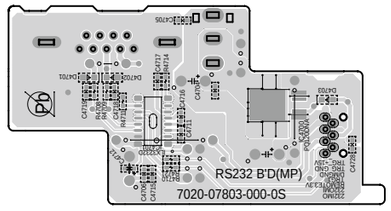
CNT (B SIDE)



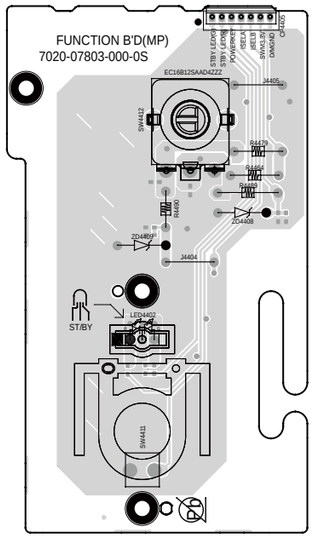
RS232 (A SIDE)



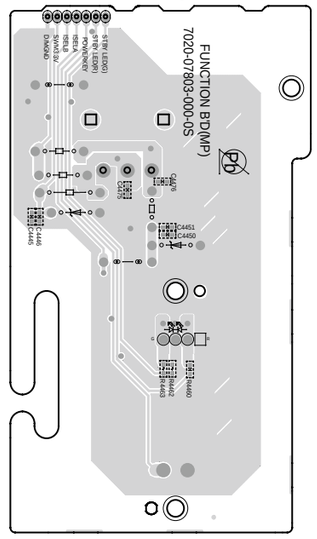
RS232 (B SIDE)



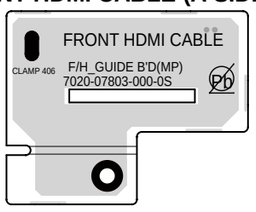
FUNCTION (A SIDE)



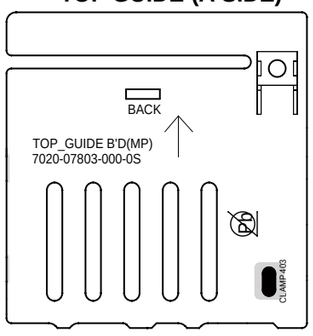
FUNCTION (B SIDE)



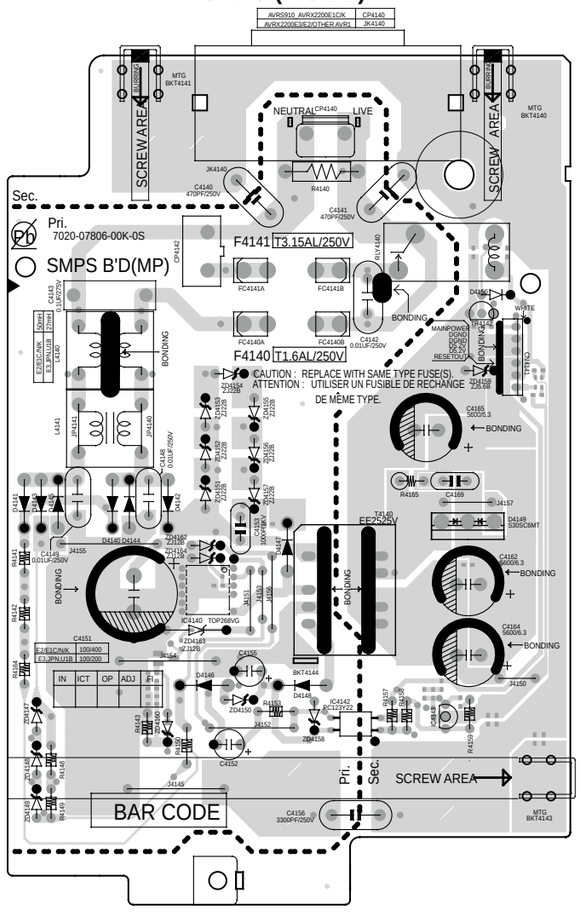
FRONT HDMI CABLE (A SIDE)



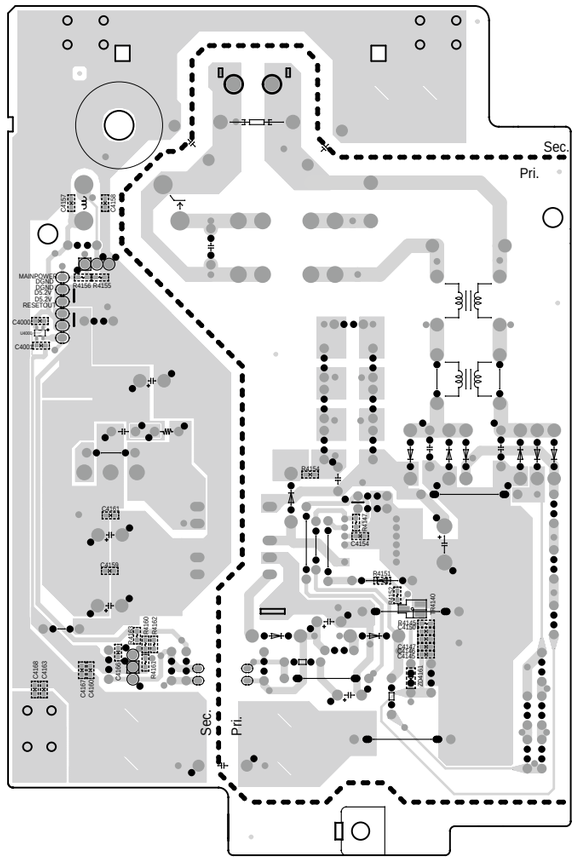
TOP GUIDE (A SIDE)



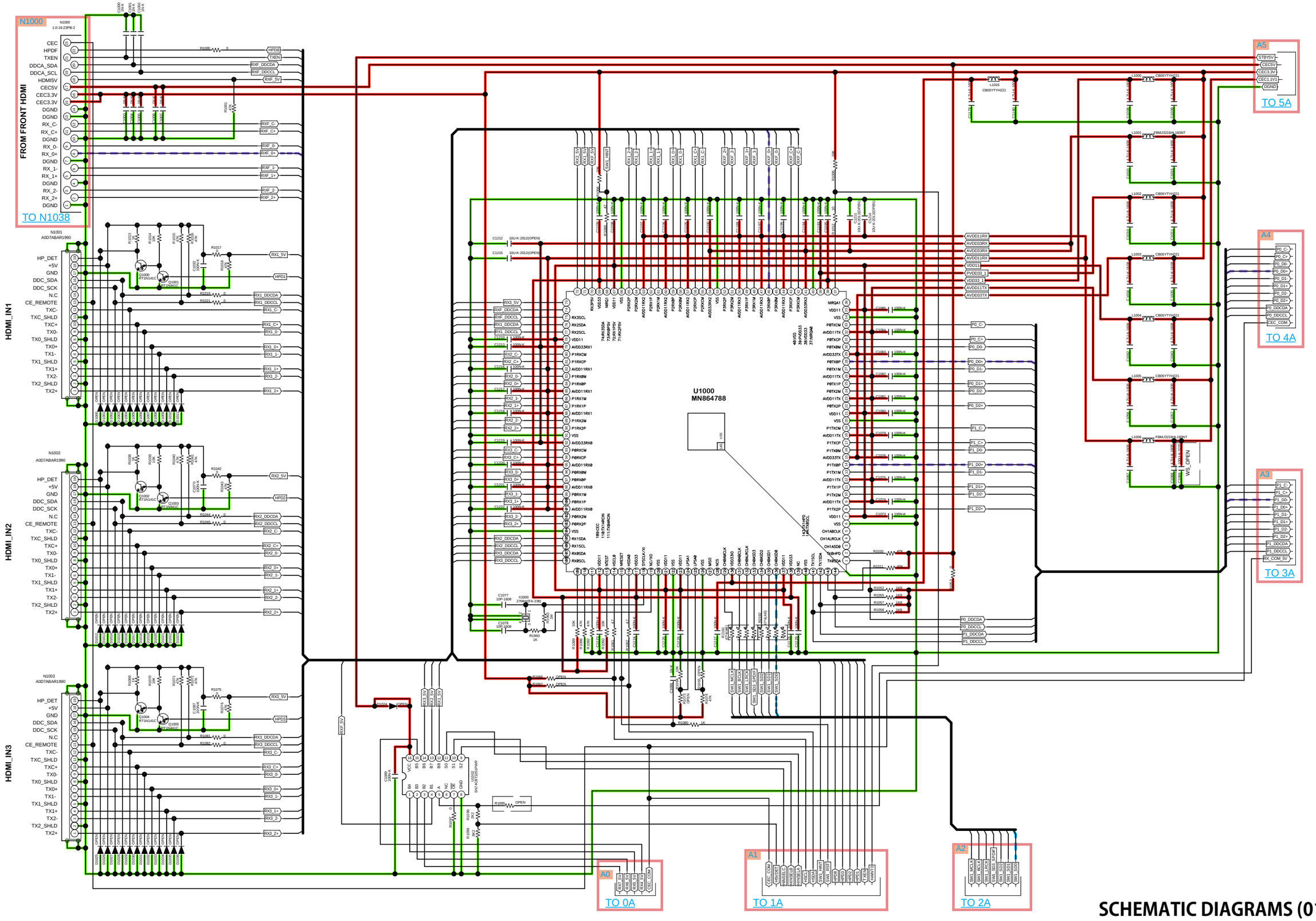
SMPS (A SIDE)



SMPS (B SIDE)



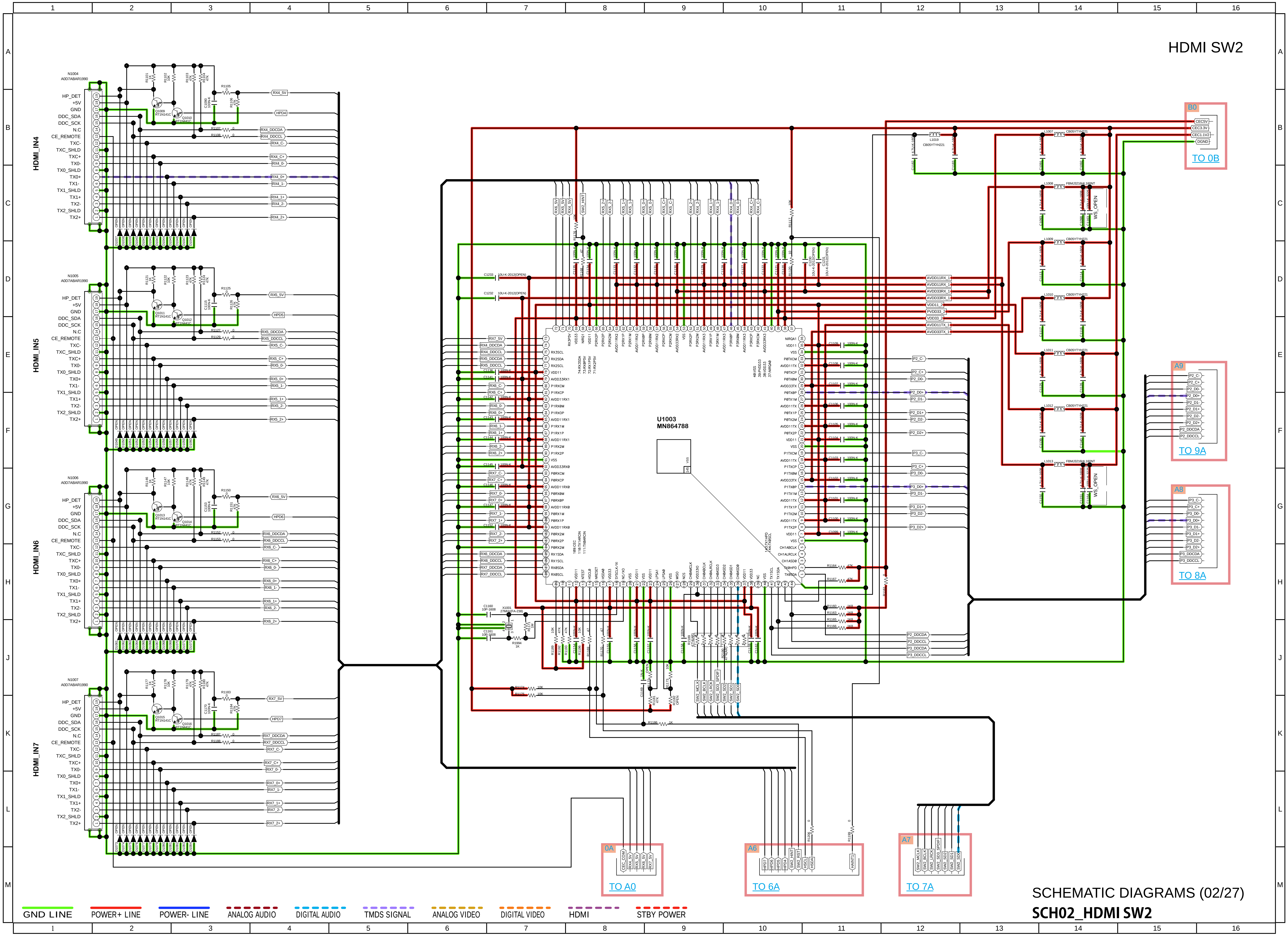
HDMI SW1



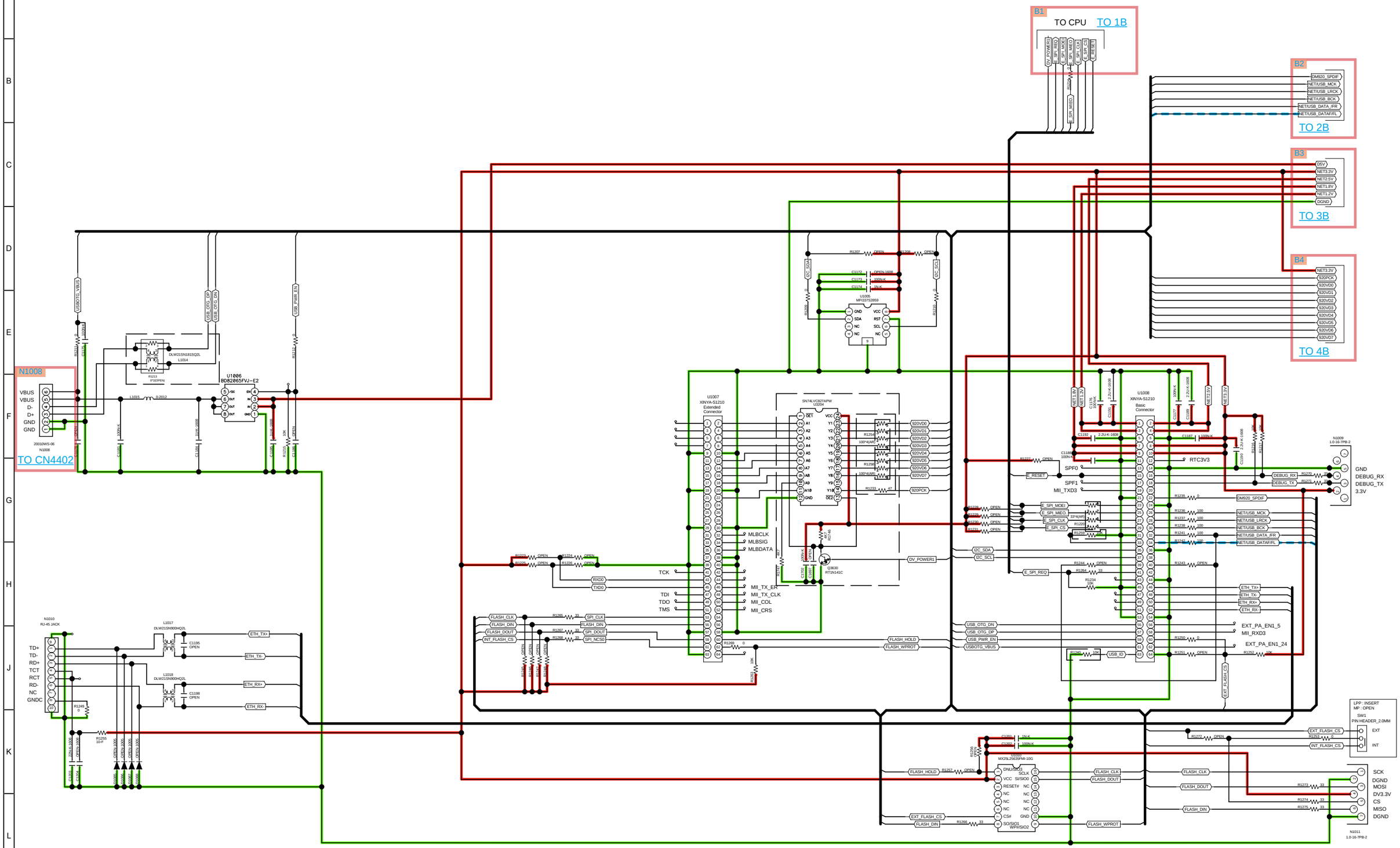
GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | HDMI | STBY POWER

SCHEMATIC DIAGRAMS (01/27)

SCH01_HDMI SW1


HDMI SW2
HDMI_IN4
HDMI_IN5
HDMI_IN6
HDMI_IN7
U1003
MN864788
TO 0B
TO 9A
TO 8A
TO A0
TO 6A
TO 7A
GND LINE
POWER+ LINE
POWER- LINE
ANALOG AUDIO
DIGITAL AUDIO
TMDS SIGNAL
ANALOG VIDEO
DIGITAL VIDEO
HDMI
STBY POWER
SCHEMATIC DIAGRAMS (02/27)
SCH02_HDMI SW2

NET PHY

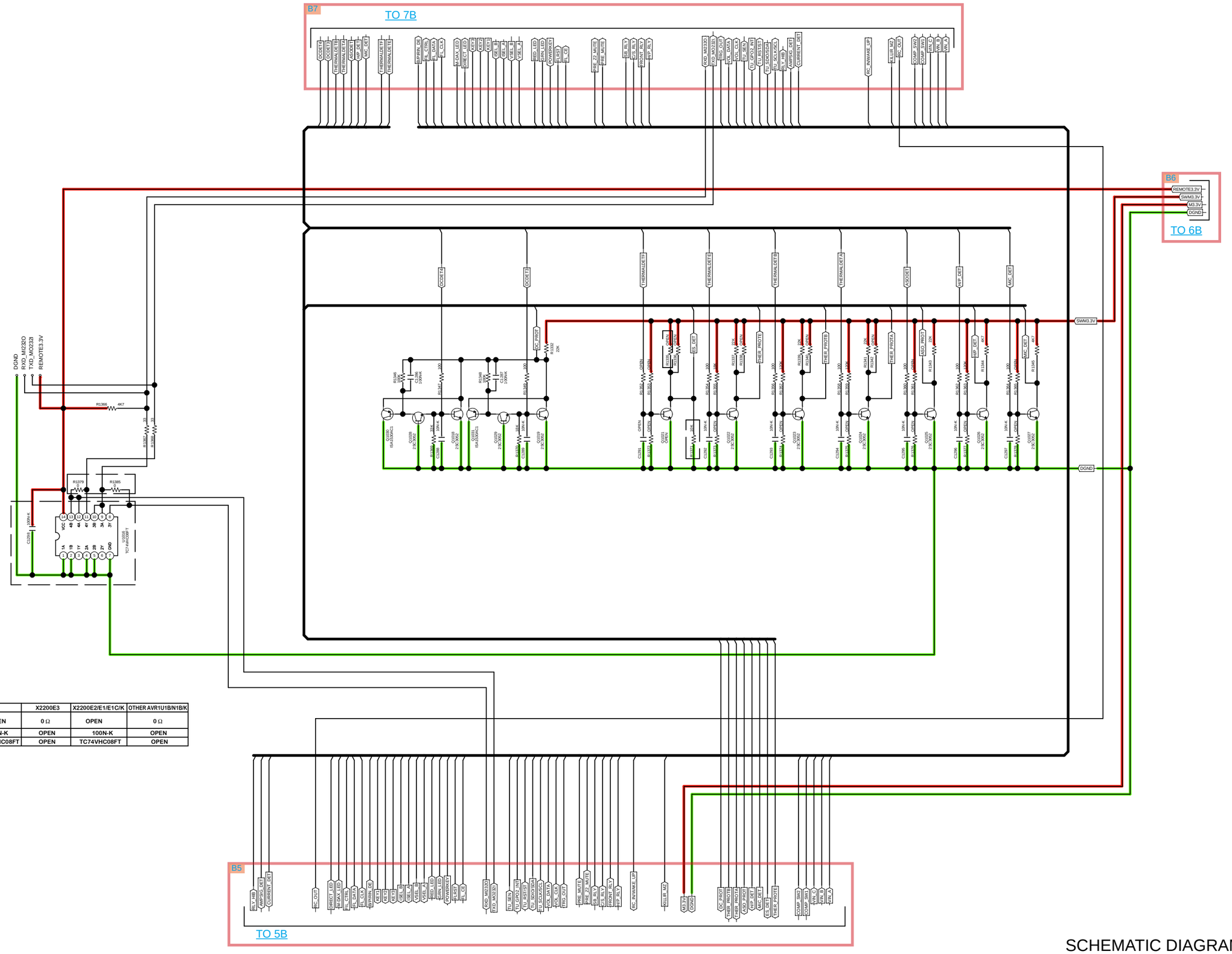


SCHEMATIC DIAGRAMS (03/27)

SCH03_NET_PHY

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

CPU LEVEL CHG



* OPTION TABLE

	S910	X2200E3	X2200E2/E1/E1C/K	OTHER AVR1U1B/N1B/K
R1379 R1385	OPEN	0 Ω	OPEN	0 Ω
C1298	100N-K	OPEN	100N-K	OPEN
U1016	TC74VHC08FT	OPEN	TC74VHC08FT	OPEN

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

SCHEMATIC DIAGRAMS (04/27)

SCH04_CPU_LEVEL_CHG

DIGITAL CNT

C0 — TO 0C

N1014 — TO CP4201

B9 — TO 9B

N1016 — TO CP4205

N1039 — TO CP3401

B8 — TO 8B

N1020 — TO CP4200

N1017 — TO CN4400

N1019 — TO CN404

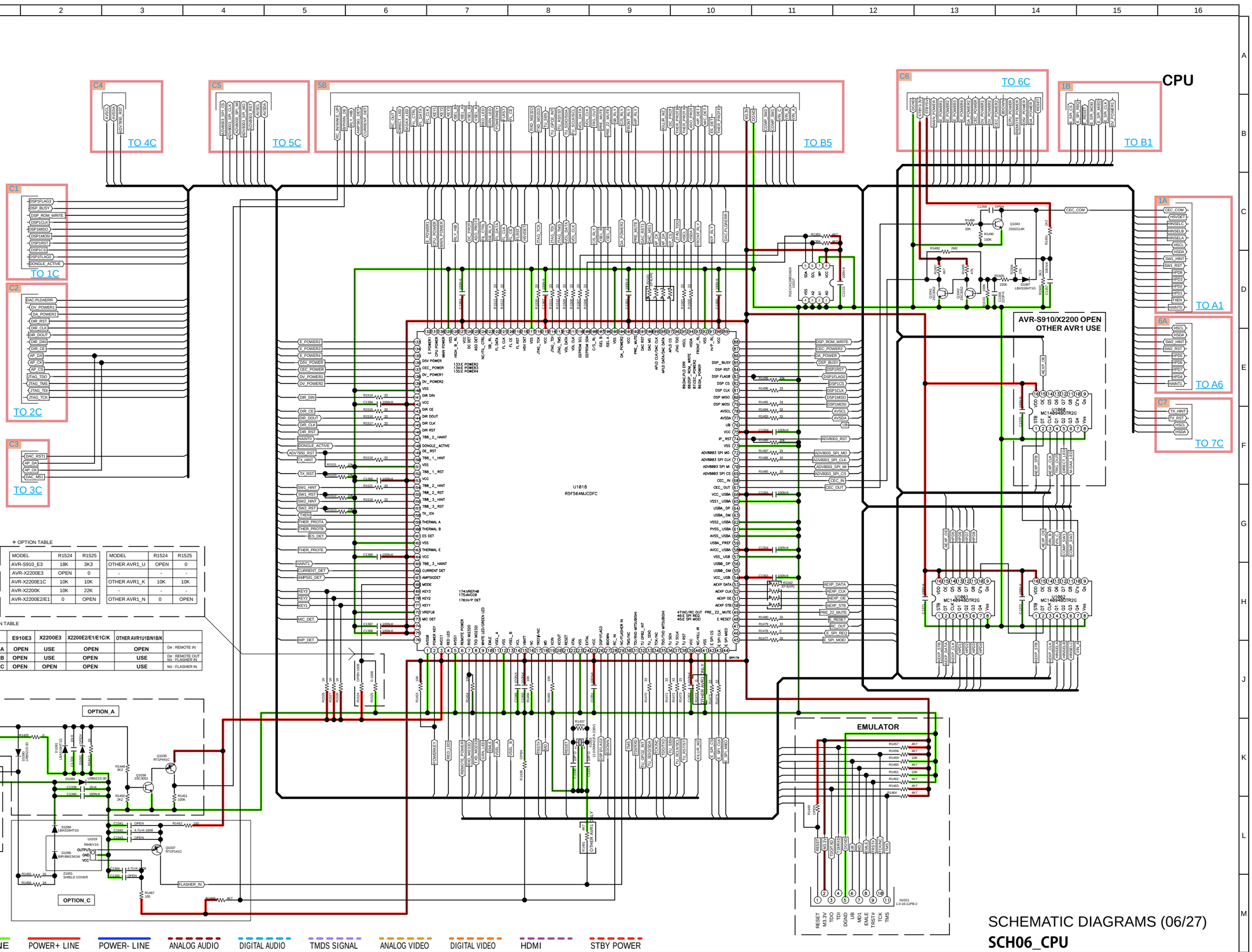
7B — TO B7

AVR-S910/X2200 ONLY

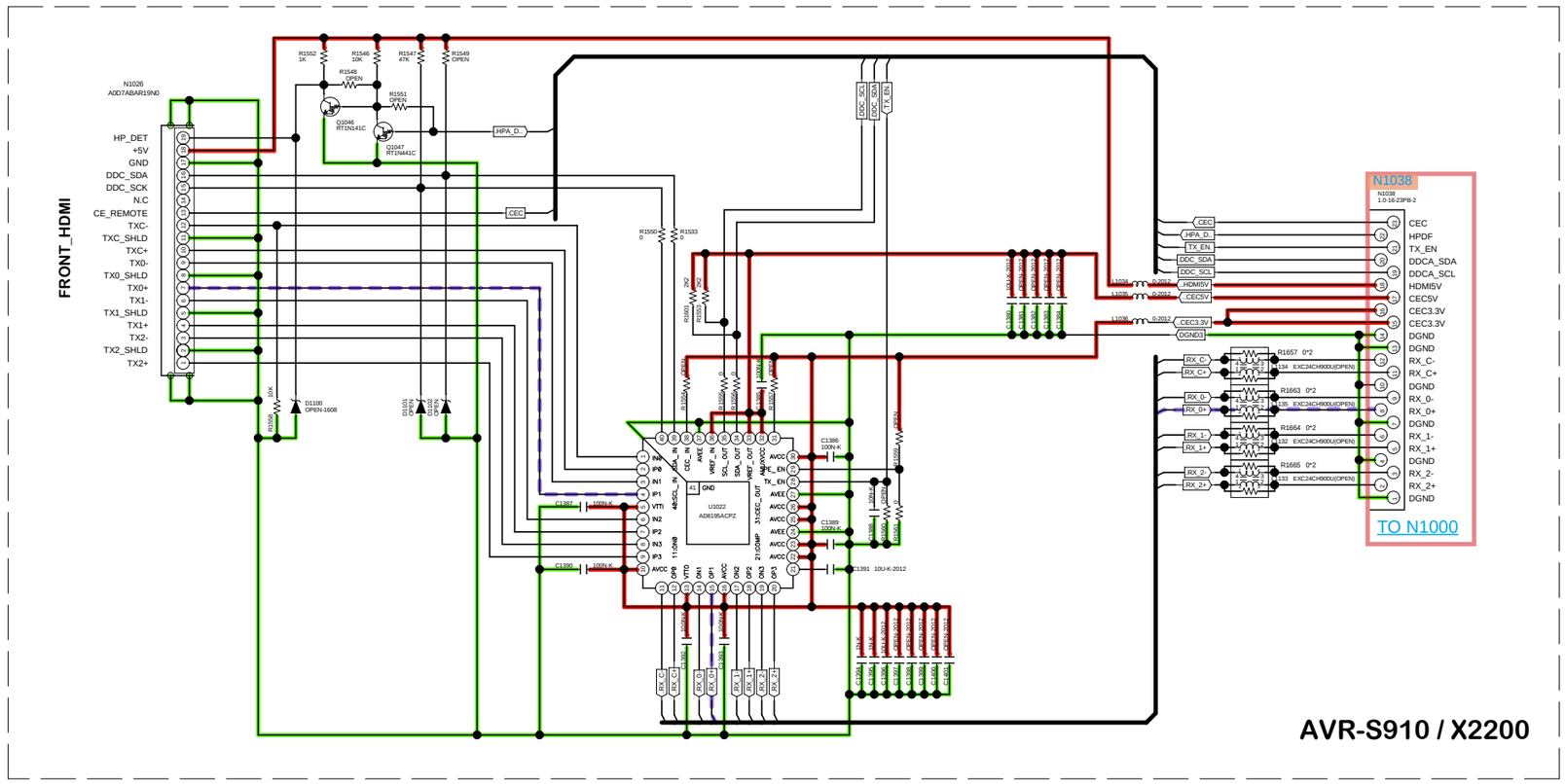
GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | HDMI | STBY POWER

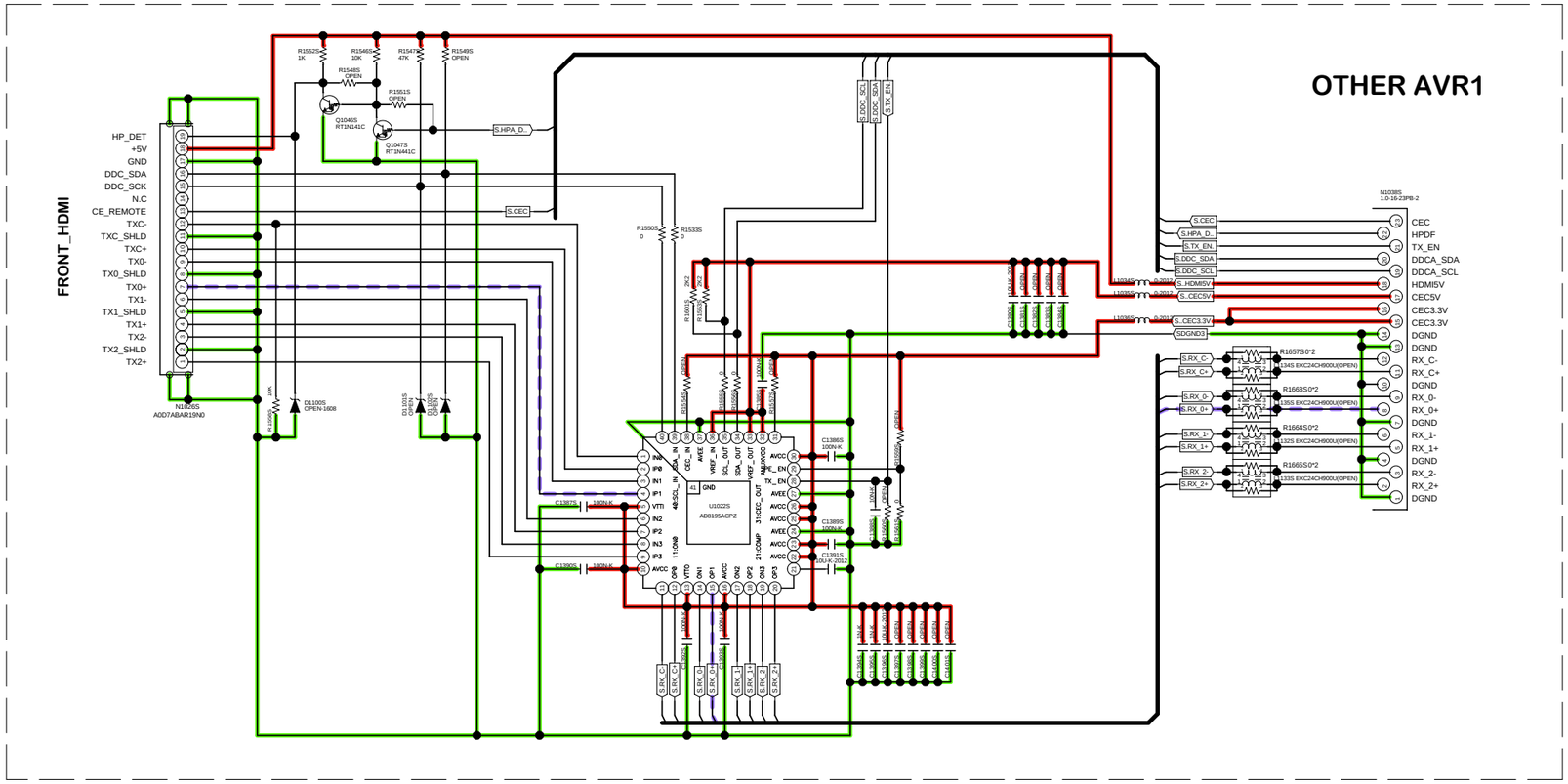
SCHEMATIC DIAGRAMS (05/27)

SCH05_DIGITAL_CNT


CPU
TO 1A
TO 1B
TO 1C
TO 2C
TO 3C
TO 4C
TO 5C
TO B5
TO 6C
TO A1
TO A6
TO 7C
AVR-S910/X2200 OPEN
OTHER AVR1 USE
U1018
R5F564MJCDFC
U1060
MC14094BDTR2G
U1061
MC14094BDTR2G
U1062
MC14094BDTR2G
EMULATOR
REMOTE IN
OPTION_A
REMOTE OUT
IR FLASHER
OPTION_B
OPTION_C
FLASHER_IN
* OPTION TABLE
MODEL R1524 R1525
AVR-S910_E3 18K 3K3
AVR-X2200E3 OPEN 0
AVR-X2200E1C 10K 10K
AVR-X2200K 10K 22K
AVR-X2200E2/E1 0 OPEN
OTHER AVR1_U OPEN 0
OTHER AVR1_K 10K 10K
OTHER AVR1_N 0 OPEN
* OPTION TABLE
E910E3 X2200E3 X2200E2/E1/E1C/K OTHER AVR1U1B/N1B/K
OPTION_A OPEN USE OPEN OPEN De : REMOTE IN
OPTION_B OPEN USE OPEN USE De : REMOTE OUT Mz : FLASHER IN
OPTION_C OPEN OPEN OPEN USE Mz : FLASHER IN
GND LINE
POWER+ LINE
POWER- LINE
ANALOG AUDIO
DIGITAL AUDIO
TMDS SIGNAL
ANALOG VIDEO
DIGITAL VIDEO
HDMI
STBY POWER
SCHEMATIC DIAGRAMS (06/27)
SCH06_CPU

FRONT HDMI





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

SCHEMATIC DIAGRAMS (07/27)

SCH07_FRONT HDMI

DSP

C8 — TO 8C

1C — TO C1

MP OPEN
N1034
1.0-16-6PB-2

OPTION A

MODEL	R1866	R1868
AVR-X2200	OPEN	4K7
AVR-S910	4K7	OPEN
OTHER AVR1	OPEN	4K7
OTHER AVR2	4K7	OPEN

U1073 CS49844A

U1023 W9864G6KH-5

U1025 MX25L6406EM2I-12G

MP : OPEN N1035 1.0-16-7PB-2

MP : OPEN N1036 1.0-16-7PB-2

SCHEMATIC DIAGRAMS (08/27)

SCH08_DSP

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

ADV8003

C9

DV5V
DV3.3V
DV1.8V
DGND

TO 9C

DDR_1.8V

DVDD_TX
AVDD3_1_TX
PVDD_TX
PVDD3_TX
PVDD5_TX
AVDD2_TX
PVDDR_TX
AVDD3_3_TX
AVDD3_2_TX
CVDD1
PVDD6_TX
DVDDIO_TX

U1026
ADV8003KBCZ-8B(AD55/058Z-0)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A	A1 TX_OSD23	A2 TX_OSDDE	A3 TX_OSDCLK	A4 TX2S0/DSD1	A5 TX2S1/DSD2	A6 TXFS/DSD5	A7 TX_ARC2OUT	A8 ADV8003_SPI_MO	A9 TX_SCK_SF	A10 TX_CS_SF	A11 ADV8003_RESET	A12 TX_XTALN	A13 PVDD_TX	A14 .	A15 .	A16 CVDD1	A17 TX_C-	A18 TX_0-	A19 TX_1-	A20 TX_2-	A21 CVDD1	A22 .	A23 .
B	B1 TX_OSD21	B2 TX_OSD22	B3 TX_OSDVS	B4 TXSPDIF/DSD0	B5 TX2S2/DSD3	B6 NC_01	B7 TX_ARC1OUT	B8 ADV8003_SPI_MI	B9 TX_MOSI_SF	B10 TX_MISO_SF	B11 TX_ALSB	B12 TX_XTALP	B13 PVDD_TX	B14 .	B15 .	B16 DGND	B17 TX_C+	B18 TX_0+	B19 TX_1+	B20 TX_2+	B21 DGND	B22 .	B23 .
C	C1 TX_OSD19	C2 TX_OSD20	C3 DGND	C4 TX2S3/DSD4	C5 TX64FS/DSDSCK	C6 TX64FS/DSDSCK	C7 AVSCL	C8 ADV8003_SPI_CLK	C9 DGND	C10 ADV8003_INT0	C11 TX_PDN	C12 DGND	C13 DGND	C14 .	C15 .	C16 TX_HPD.	C17 AVDD1_TX	C18 DGND	C19 DGND	C20 AVDD1_TX	C21 AVDD1_TX	C22 .	C23 .
D	D1 TX_OSD16	D2 TX_OSD17	D3 TX_OSD18	D4 DGND	D5 DVDDIO_TX	D6 256FS/DSDMCK	D7 AVSDA	D8 ADV8003_SPI_CS	D9 DGND	D10 ADV8003_INT1	D11 ADV8003_INT2	D12 DVDDIO_TX	D13 TX_TEST1	D14 .	D15 .	D16 DV5V	D17 .	D18 .	D19 TX_RTERM	D20 AVDD2_TX	D21 AVDD2_TX	D22 .	D23 .
E	E1 TX_OSD13	E2 TX_OSD14	E3 TX_OSD15	E4 DVDDIO_TX	E5 .	E6 .	E7 .	E8 .	E9 .	E10 .	E11 .	E12 .	E13 .	E14 .	E15 .	E16 .	E17 .	E18 .	E19 .	E20 .	E21 DGND	E22 .	E23 .
F	F1 .	F2 .	F3 .	F4 TX_OSD12	F5 .	F6 .	F7 .	F8 .	F9 .	F10 .	F11 .	F12 .	F13 .	F14 .	F15 .	F16 .	F17 .	F18 .	F19 .	F20 .	F21 PVDD3_TX	F22 DGND	F23 .
G	G1 .	G2 .	G3 .	G4 .	G5 .	G6 .	G7 DGND	G8 DGND	G9 DGND	G10 DVDD_TX	G11 DGND	G12 DGND	G13 DVDD_TX	G14 DGND	G15 DGND	G16 DGND	G17 DGND	G18 .	G19 .	G20 TX_ELPF1	G21 TX_ELPF2	G22 DGND	G23 AVDD3_1_TX
H	H1 .	H2 .	H3 .	H4 .	H5 .	H6 .	H7 DGND	H8 DGND	H9 DGND	H10 DGND	H11 DGND	H12 DGND	H13 DGND	H14 DGND	H15 DGND	H16 DGND	H17 DGND	H18 .	H19 .	H20 DGND	H21 DGND	H22 TX1_2+	H23 TX1_2-
J	J1 DGND	J2 DGND	J3 .	J4 .	J5 .	J6 .	J7 DVDD_TX	J8 DGND	J9 DGND	J10 DGND	J11 DGND	J12 DGND	J13 DGND	J14 DGND	J15 DGND	J16 DGND	J17 DVDD_TX	J18 .	J19 .	J20 ADV8003_DDCSDA	J21 DGND	J22 TX1_1+	J23 TX1_1-
K	K1 DGND	K2 920PCK	K3 DVDDIO_TX	K4 DVDDIO_TX	K5 .	K6 .	K7 DGND	K8 DGND	K9 DGND	K10 DGND	K11 DGND	K12 DGND	K13 DGND	K14 DGND	K15 DGND	K16 DGND	K17 DGND	K18 .	K19 .	K20 ADV8003_DDCSCL	K21 DGND	K22 TX1_0+	K23 TX1_0-
L	L1 DGND	L2 DGND	L3 DGND	L4 DGND	L5 .	L6 .	L7 DVDD_TX	L8 DGND	L9 DGND	L10 DGND	L11 DGND	L12 DGND	L13 DGND	L14 DGND	L15 DGND	L16 DGND	L17 DGND	L18 .	L19 .	L20 TX1_HPD	L21 DGND	L22 TX1_C+	L23 TX1_C-
M	M1 DGND	M2 DGND	M3 DGND	M4 DGND	M5 .	M6 .	M7 DGND	M8 DGND	M9 DGND	M10 DGND	M11 DGND	M12 DGND	M13 DGND	M14 DGND	M15 DGND	M16 DGND	M17 DGND	M18 .	M19 .	M20 TX_R_TX1	M21 PVDD5_TX	M22 TX1_HEAC+	M23 TX1_HEAC-
N	N1 DGND	N2 DGND	N3 DGND	N4 DGND	N5 .	N6 .	N7 DGND	N8 DGND	N9 DGND	N10 DGND	N11 DGND	N12 DGND	N13 DGND	N14 DGND	N15 DGND	N16 DGND	N17 DGND	N18 .	N19 .	N20 .	N21 PVDD5_TX	N22 AVDD3_2_TX	N23 .
P	P1 920VD4	P2 920VD5	P3 920VD6	P4 920VD7	P5 .	P6 .	P7 DVDD_TX	P8 DGND	P9 DGND	P10 DGND	P11 DGND	P12 DGND	P13 DGND	P14 DGND	P15 DGND	P16 DGND	P17 DVDD_TX	P18 .	P19 .	P20 .	P21 DGND	P22 .	P23 .
R	R1 920VD0	R2 920VD1	R3 920VD2	R4 920VD3	R5 .	R6 .	R7 DGND	R8 DGND	R9 DGND	R10 DGND	R11 DGND	R12 DGND	R13 DGND	R14 DGND	R15 DGND	R16 DGND	R17 DGND	R18 .	R19 .	R20 .	R21 DGND	R22 .	R23 .
T	T1 DGND	T2 DGND	T3 DGND	T4 DGND	T5 .	T6 .	T7 DGND	T8 DGND	T9 DGND	T10 DGND	T11 DGND	T12 DGND	T13 DGND	T14 DGND	T15 DGND	T16 DGND	T17 DGND	T18 .	T19 .	T20 .	T21 DGND	T22 .	T23 .
U	U1 DGND	U2 DGND	U3 DGND	U4 DGND	U5 .	U6 .	U7 DGND	U8 DGND	U9 DVDD_TX	U10 DGND	U11 DGND	U12 DVDD_TX	U13 DGND	U14 DGND	U15 DVDD_TX	U16 DGND	U17 DGND	U18 .	U19 .	U20 .	U21 DGND	U22 .	U23 .
V	V1 DGND	V2 DGND	V3 DGND	V4 DGND	V5 .	V6 .	V7 .	V8 .	V9 .	V10 .	V11 .	V12 .	V13 .	V14 .	V15 .	V16 .	V17 .	V18 .	V19 .	V20 DGND	V21 PVDD6_TX	V22 .	V23 .
W	W1 DGND	W2 DGND	W3 DGND	W4 DGND	W5 .	W6 .	W7 .	W8 .	W9 .	W10 .	W11 .	W12 .	W13 .	W14 .	W15 .	W16 .	W17 .	W18 .	W19 .	W20 .	W21 PVDD6_TX	W22 AVDD3_3_TX	W23 .
Y	Y1 DGND	Y2 DGND	Y3 TX_DDRDQS2	Y4 DGND	Y5 TX_DDRDQ23	Y6 DDR_1.8V	Y7 TX_DDRDQS3	Y8 DGND	Y9 TX_DDRA11	Y10 DDR_1.8V	Y11 TX_DDRA4	Y12 DGND	Y13 TX_DDRCASB	DDR_1.8V	Y14 TX_DDRCKB	Y15 DGND	Y16 TX_DDRDQ9	Y17 DDR_1.8V	Y18 TX_DDRDQ14	Y19 DGND	Y20 TX_DDRDQ6	Y21 PVDDR_TX	Y22 DGND	Y23 .
AA	AA1 TX_DDRDQ18	AA2 DGND	AA3 DGND	AA4 TX_DDRQS2	AA5 TX_DDRDQ26	AA6 DDR_1.8V	AA7 TX_DDRQS3	AA8 DGND	AA9 TX_DDRA8	AA10 DDR_1.8V	AA11 TX_DDRA2	AA12 DGND	AA13 TX_DDRCSB	AA14 DDR_1.8V	AA15 TX_DDRCK	AA16 DGND	AA17 TX_DDRDQ11	AA18 DDR_1.8V	AA19 TX_DDRDM1	AA20 TX_DDRDM0	AA21 DGND	AA22 DGND	AA23 TX_DDRDQ3
AB	AB1 TX_DDRDQ21	AB2 TX_DDRDQ19	AB3 TX_DDRDQ17	AB4 TX_DDRDM2	AB5 TX_DDRDQ30	AB6 TX_DDRDM3	AB7 TX_DDRDQ31	AB8 TX_DDRDQ29	AB9 TX_DDRA12	AB10 TX_DDRA6	AB11 TX_DDRA3	AB12 TX_DDRA0	AB13 TX_DDRBA0	AB14 TX_DDRRASB	AB15 TX_DDRCKE	AB16 TX_DDRDQ12	AB17 TX_DDRDQS1	AB18 TX_DDRDQ8	AB19 TX_DDRDQ13	AB20 TX_DDRDQ0	AB21 TX_DDRDQ5	AB22 TX_DDRDQS0	AB23 TX_DDRDQ4
AC	AC1 TX_DDRDQ16	AC2 TX_DDRDQ20	AC3 TX_DDRDQ22	AC4 TX_DDRDQ25	AC5 TX_DDRDQ28	AC6 TX_DDRDQ27	AC7 TX_DDRDQ24	AC8 TX_DDRA9	AC9 TX_DDRA5	AC10 TX_DDRA7	AC11 TX_DDRA1	AC12 TX_DDRA10	AC13 TX_DDRBA1	AC14 TX_DDRBA2	AC15 TX_DDRWEB	AC16 TX_DDRVREF	AC17 TX_DDRDQ10	AC18 TX_DDRQS0B1	AC19 TX_DDRDQ15	AC20 TX_DDRDQ7	AC21 TX_DDRDQ2	AC22 TX_DDRDQS0B	AC23 TX_DDRDQ1

U1028
MX25L12833FMI-10G

U1027
MX25L12833FMI-10G

U1029
MX25L12833FMI-10G

U1030
MX25L12833FMI-10G

X1006
24MHz(TA-238)

D0
TO 0D

TX_C-
TX_C+
TX_0-
TX_0+
TX_1-
TX_1+
TX_2-
TX_2+
TX_HPD.
TX_RXCN A17
TX_RXCP B17
TX_RXDN A18
TX_RXDP B18
TX_RX1N A19
TX_RX1P B19
TX_RX2N A20
TX_AX2P B20
TX_AXHPD C16
DV5V TX_RX5V D16

D1
TO 1D

D2
TO 2D

D3
TO 3D

D4
TO 4D

TX1_C-
TX1_C+
TX1_0-
TX1_0+
TX1_1-
TX1_1+
TX1_2-
TX1_2+
ADV8003_DDCSCL
ADV8003_DDCSDA

5C
TO C5

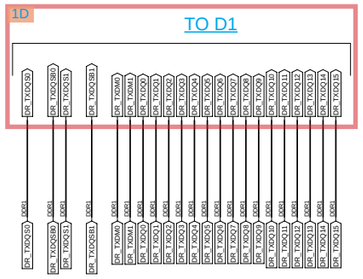
SCK
DGND
MOSI
DV3.3V
CS
MISO
DGND

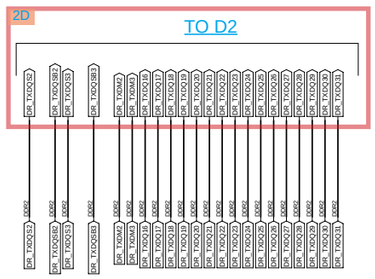
GND LINE
POWER+ LINE
POWER- LINE
ANALOG AUDIO
DIGITAL AUDIO
TMDS SIGNAL
ANALOG VIDEO
DIGITAL VIDEO
HDMI
STBY POWER

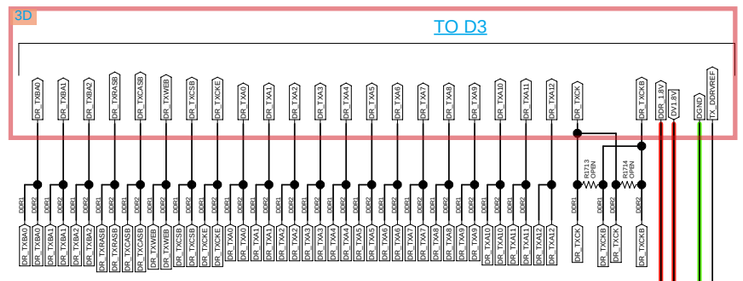
SCHEMATIC DIAGRAMS (09/27)

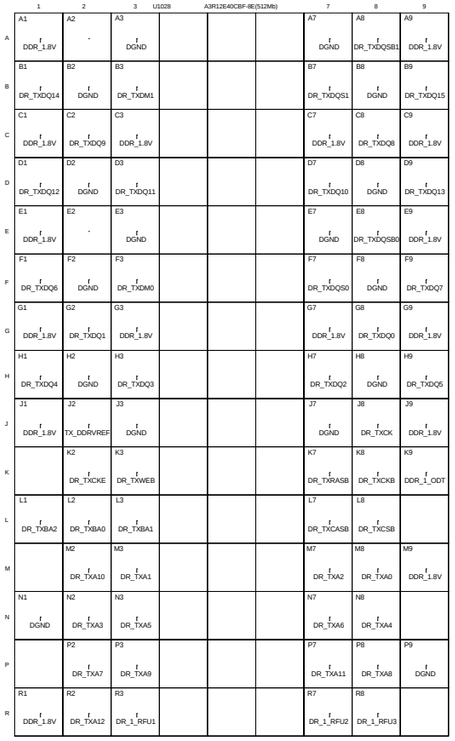
SCH09_ADV8003

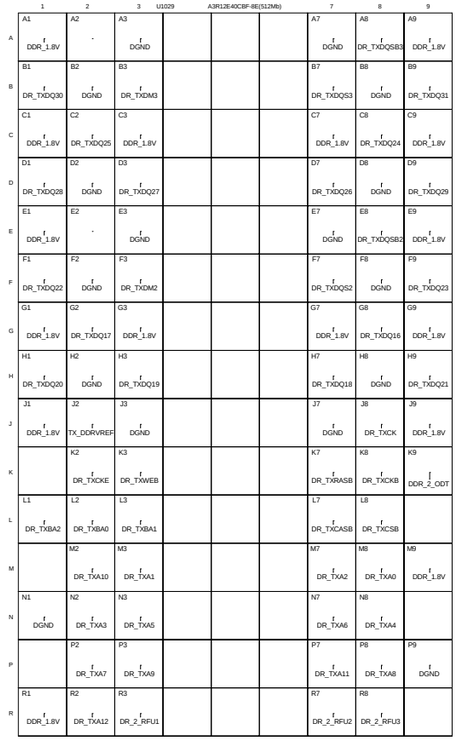
ADV8003 DDR

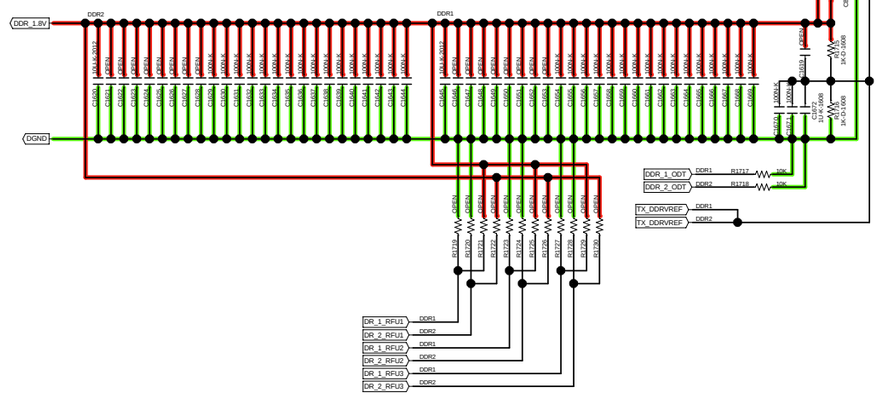










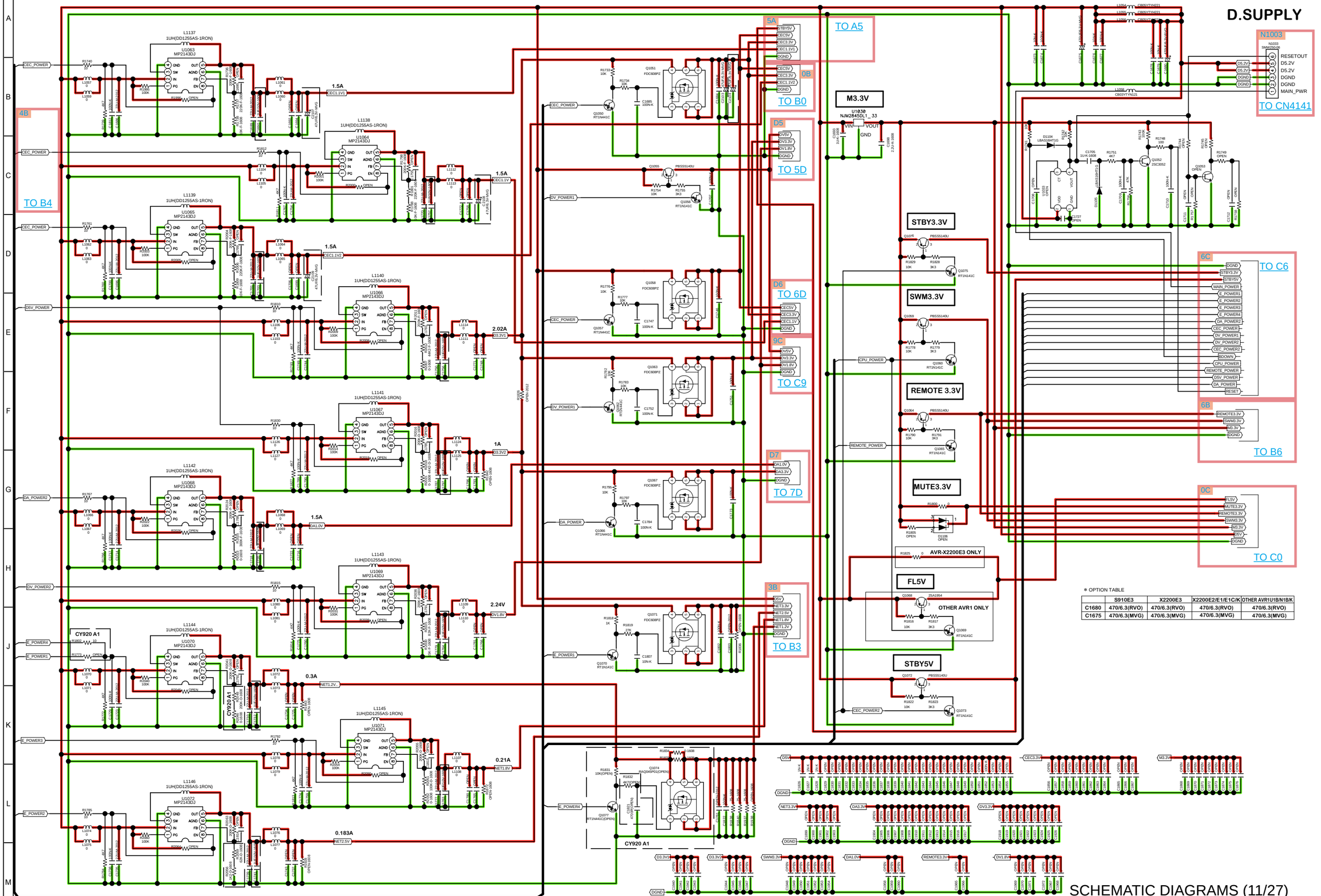


SCHEMATIC DIAGRAMS (10/27)

SCH10_ADV8003 DDR

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

D.SUPPLY



* OPTION TABLE

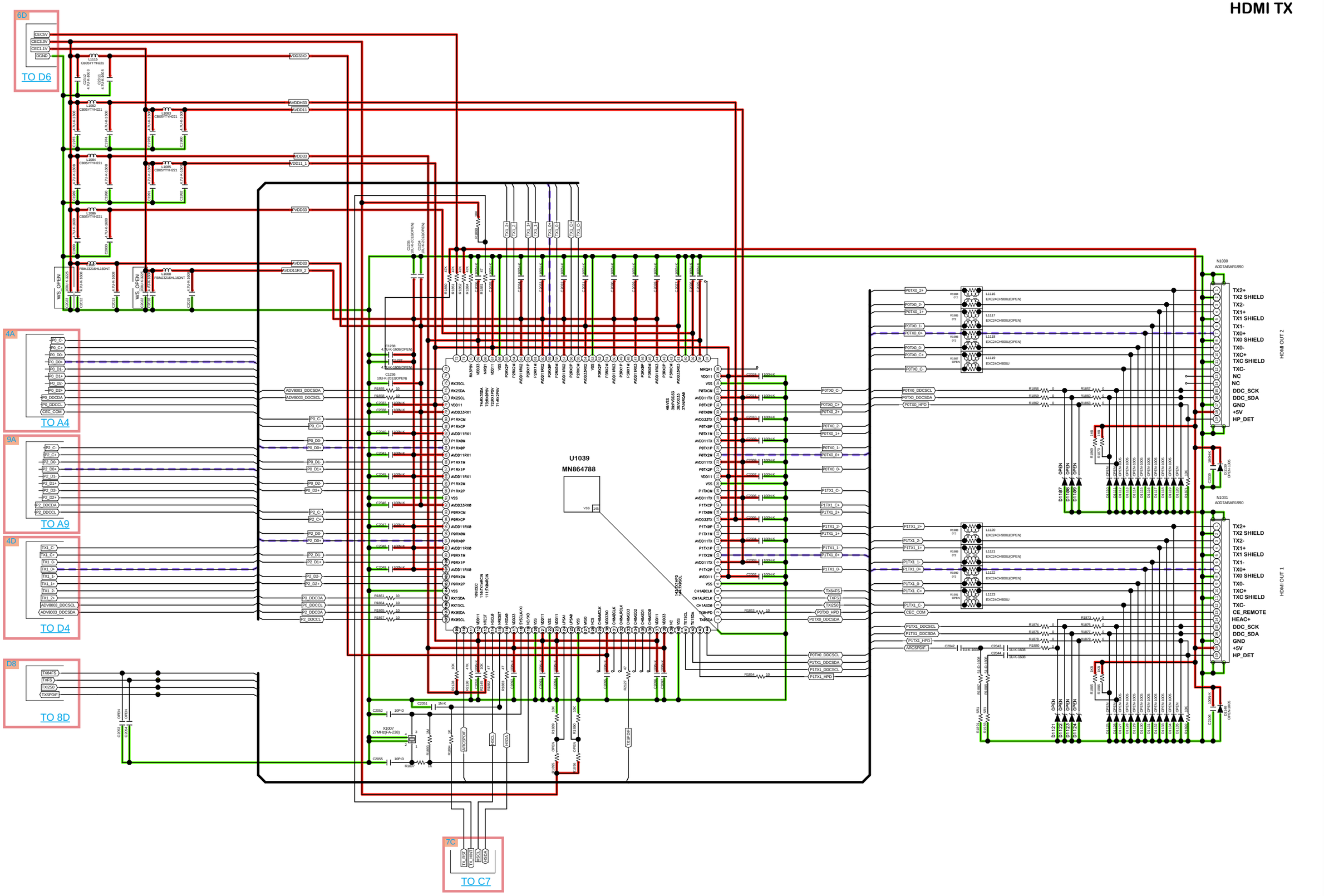
	S910E3	X2200E3	X2200E2/E1/E1C/K	OTHER AVR1U1B/N1B/K
C1680	470/6.3(RVO)	470/6.3(RVO)	470/6.3(RVO)	470/6.3(RVO)
C1675	470/6.3(MVG)	470/6.3(MVG)	470/6.3(MVG)	470/6.3(MVG)

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

SCHEMATIC DIAGRAMS (11/27)

SCH11_D SUPPLY

HDMI TX



SCHEMATIC DIAGRAMS (12/27)

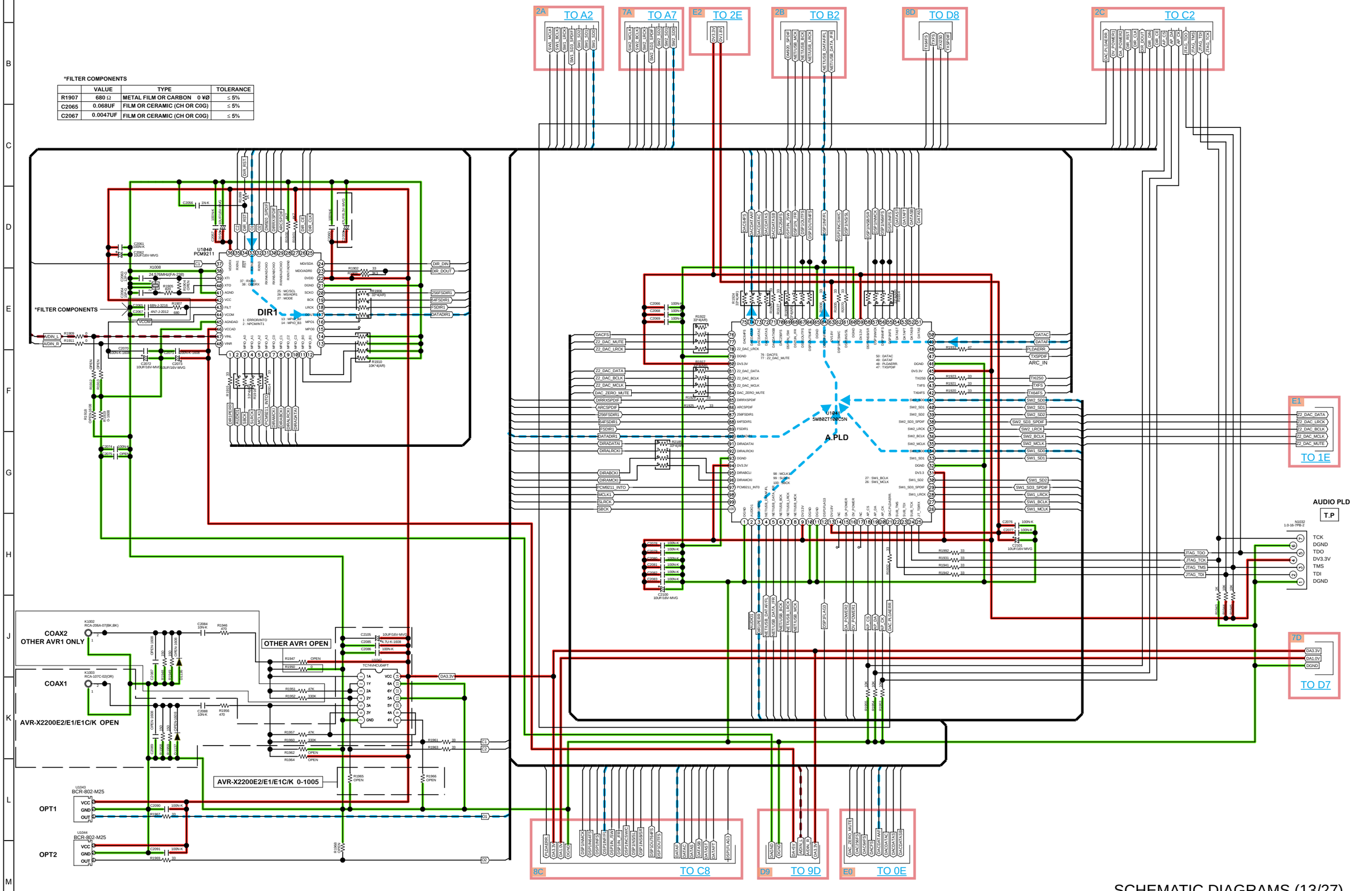
SCH12_HDMI TX

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

DIR/A.PLD

*FILTER COMPONENTS

	VALUE	TYPE	TOLERANCE
R1907	680 Ω	METAL FILM OR CARBON 0 WØ	≤ 5%
C2065	0.068UF	FILM OR CERAMIC (CH OR C0G)	≤ 5%
C2067	0.0047UF	FILM OR CERAMIC (CH OR C0G)	≤ 5%

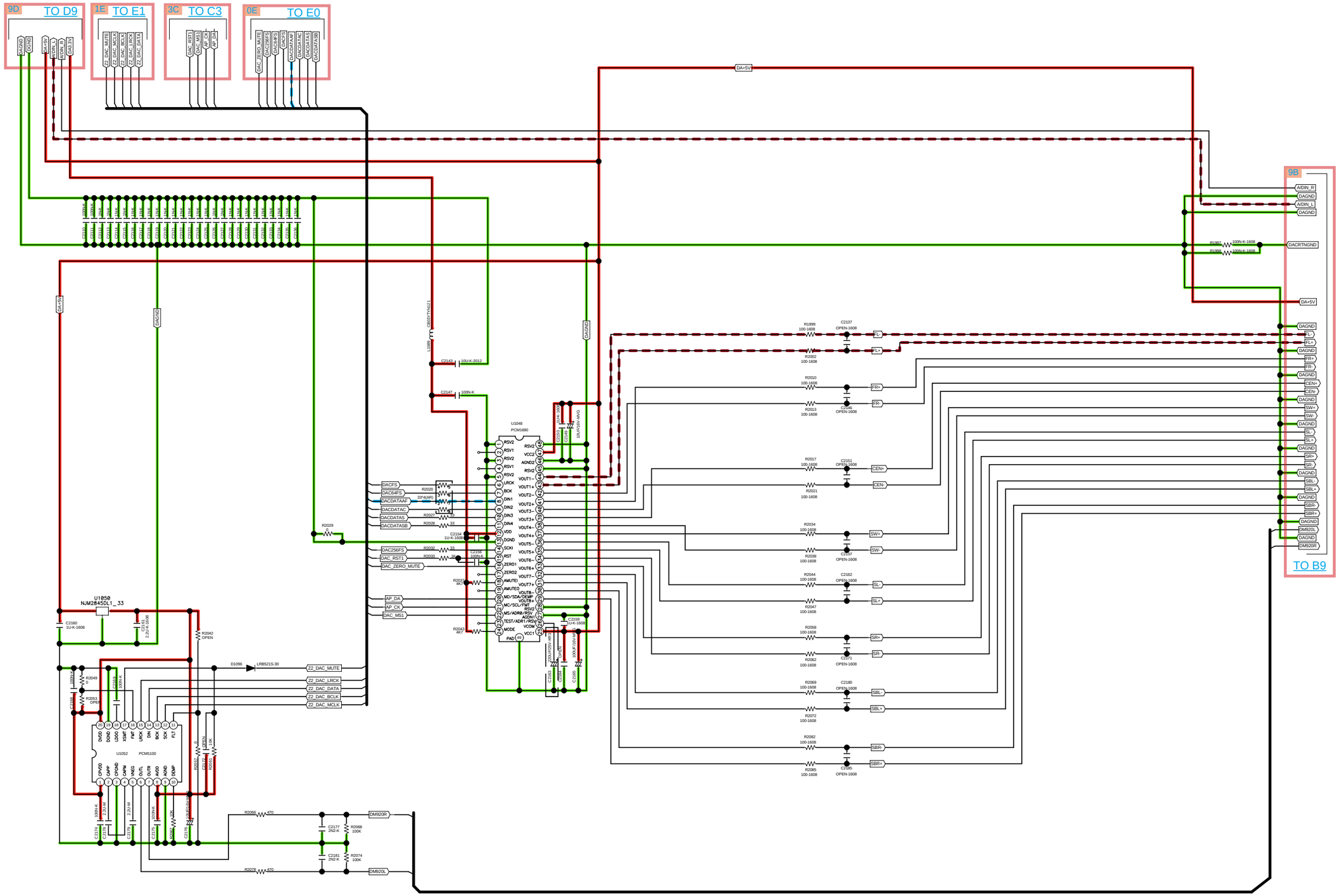


SCHEMATIC DIAGRAMS (13/27)

SCH13_DIR_A PLD

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

MAIN DAC

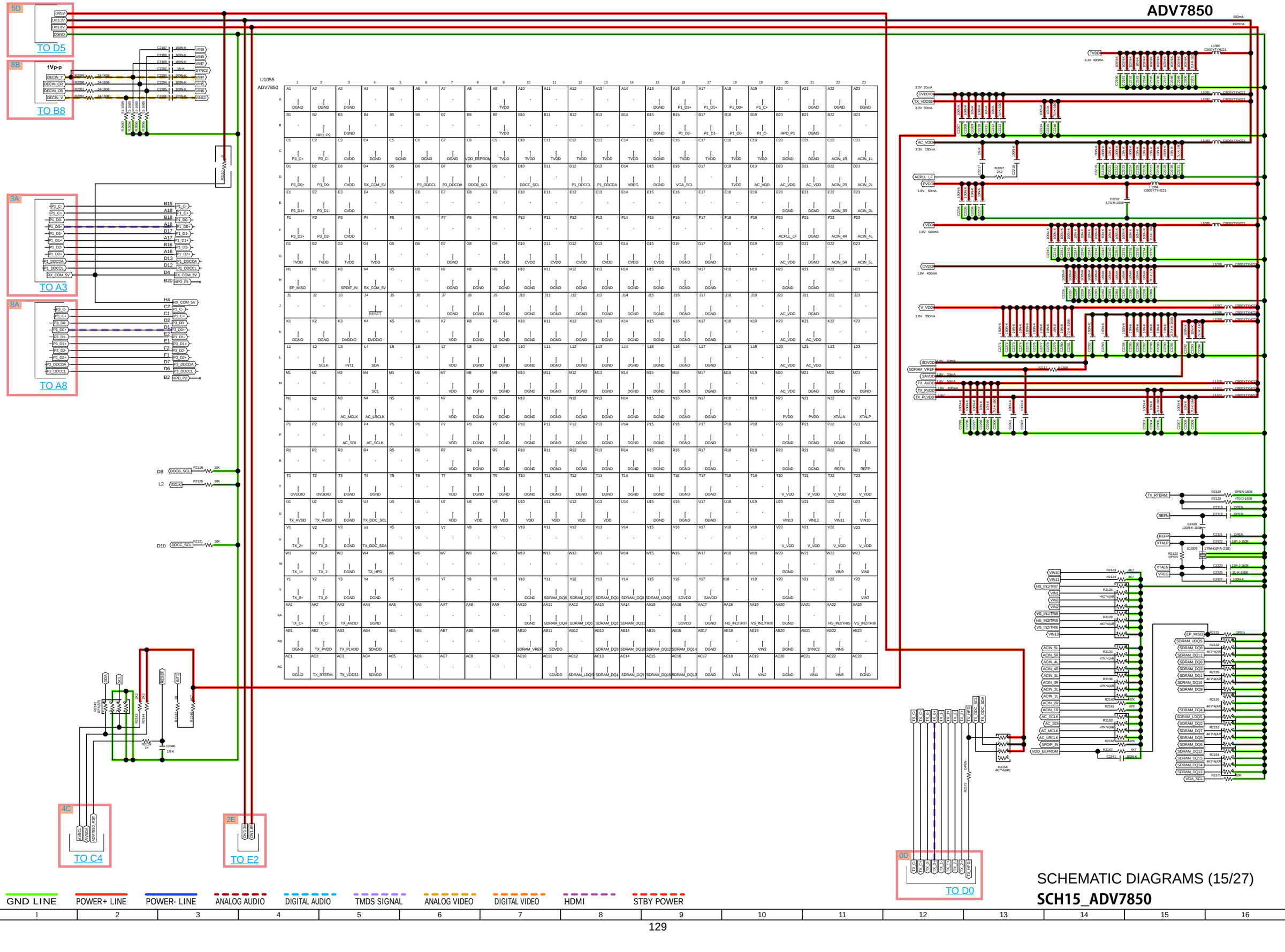


SCHEMATIC DIAGRAMS (14/27)

SCH14_MAIN DAC

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

ADV7850



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

INPUT 1/1

CN4701 TO CP4700

CP4200 TO N1020

CP4201 TO N1014

CP4205 TO N1016

PREOUT

CN4006 TO CP4006

N4703 TO CP4007

* MODEL/AREA OPTION

MODEL	AVRS910	AVRX2200		OTHER AVR1
AREA	E3	E3	E2/E1C/K	U / N / K
OPTION A		X		O
OPTION B		O		X
OPTION C	X	O	O	O
OPTION D	O	X	O	X
OPTION F	470UF/16V(KOSHIN)			220UF/16V(SMS)

CN401 TO CP401

CP4204 TO CN5003

VIDEO_F/CNT 1/3 O8

CP4207 TO CN4704

IC4200 BD34704

GAIN : 8.5dB

SCHEMATIC DIAGRAMS (16/27)

SCH16_INPUT

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

VIDEO PART

VIDEO_F/CNT 1/3

JACK5000
CVBS OUT
C5033 OPEN
R5004 OPEN
SR ONLY
CHASSIS
Y/V
R5003 1.8K
R5002 82
SR ONLY
DVD
CBL/SAT
CVBS IN
C5026 10/50
DVD
C5006 OPEN
R5014 75
C5027 10/50
CBL/SAT
C5007 OPEN
R5011 75

CVBS INPUT SW
NJM2595MTE1

INPUT					OUT PUT	AVR_S910/X2200	OTHER AVR1
SW1	SW2	SW3	SW4	SW5			
L	L	H	H	L	MUTE	MUTE	
H	H	L	L	H	VIN 3	CBL/SAT	
H	H	L	H	H	VIN 4	DVD	
H	L	H	L	H	VIN 2	NOT USED	V.AUX

IC5001
NJM2595MTE1
R5008 75
R5007 75
C5030 100N-K
C5029 10/50
Q4219 RT1N141C
R5009 10K
C5031 100N-K
C5032 100N-K
R5010 10K
AVR ONLY
V+5V
VIN_B
V.AUX
VIN_C
VIN_A
V-5V
CVBS.
V-5V
COMP_SW2

SR ONLY
R5013 75
C5028 10/50
C5034 OPEN

CN5000
AVR ONLY(21P)
VAUX
M/DGND
CVBS
M/DGND
VDIPY
M/DGND
VDICB
M/DGND
VDICR
M/DGND
COMPONENT SW2
V INC
V INB
V INA
COMPONENT_SW1
V+5V
V+5V
VAGND
VAGND
V-5V
V-5V
NC
PREMUTE_SB
PREMUTE_S
PREMUTE_F
SR ONLY(25P)
TO CP5000

OPTION A
JACK5001
COMPONENT OUT
Y
Cb
Cr
R5022 OPEN
R5029 OPEN
R5029 OPEN
R5015 150
R5017 160
R5019 150
R5021 160
R5023 150
R5025 160
C5008 68P
C5009 68P
C5010 68P
R5016 150
R5018 160
R5020 150
R5022 160
R5024 150
R5026 160
C5013 100N-K
C5011 100/10
C5014 100N-K
C5012 68P
C5015 68P
C5016 68P
V_OUT
CB_OUT.
CR_OUT.
COMP_SW2
V-5V
COMP_SW1

JACK5002
Y1
Cb1
Cr1
R5033 75
R5034 75
R5035 75
C5017 1/50
Y1_IN
C5018 1/50
CB1_IN
C5021 1/50
CR1_IN
CBL/SAT
OPTION B
BKT5003
COMPONENT IN

IC5002
NJM2586AVC3
R5036 10K
C5019 100N-K
C5020 100N-K
C5022 100/10
V+5V
V-5V
OPTION B
R5069
R5070
R5071
COMP_SW2

CN5003
CN5003
PREMUTE_SB
PREMUTE_S
PREMUTE_F
NC
M3.3V
RC_IN
FRONT_IRIN
RC_OUT
KILLIR
D5V
M/DGND
TO CP4204

JACK5003
DVD
Y2
Cb2
Cr2
R5037 75
R5038 75
R5039 75
C5023 1/50
Y2_IN
C5024 1/50
CB2_IN
C5025 1/50
CR2_IN
CHASSIS GND
OPTION A

	MUTE(PS)
H	OFF
L	ON

COMPONENT INPUT SW
(NJM2586AVC3)

INPUT		OUT PUT	AVR_S910/X2200 OTHER AVR1
SW1	SW2		
H	L	IN2	CBL/SAT
H	H	IN3	DVD

* MODEL / AREA OPTION

MODEL	AVR-S910	AVR-X2200		OTHER AVR1
AREA	E3	E3	E2/E1/E1C/JP	U1B/N1B/K1B
OPTION A	O	O	X	O
OPTION B	X	X	O	X
JACK5000	2P JACK			3P JACK

E3
D5V(MX)
M/DGND
M3.3V
KILLIR
RC_OUT
FRONT_IRIN
RC_IN
TO 3E

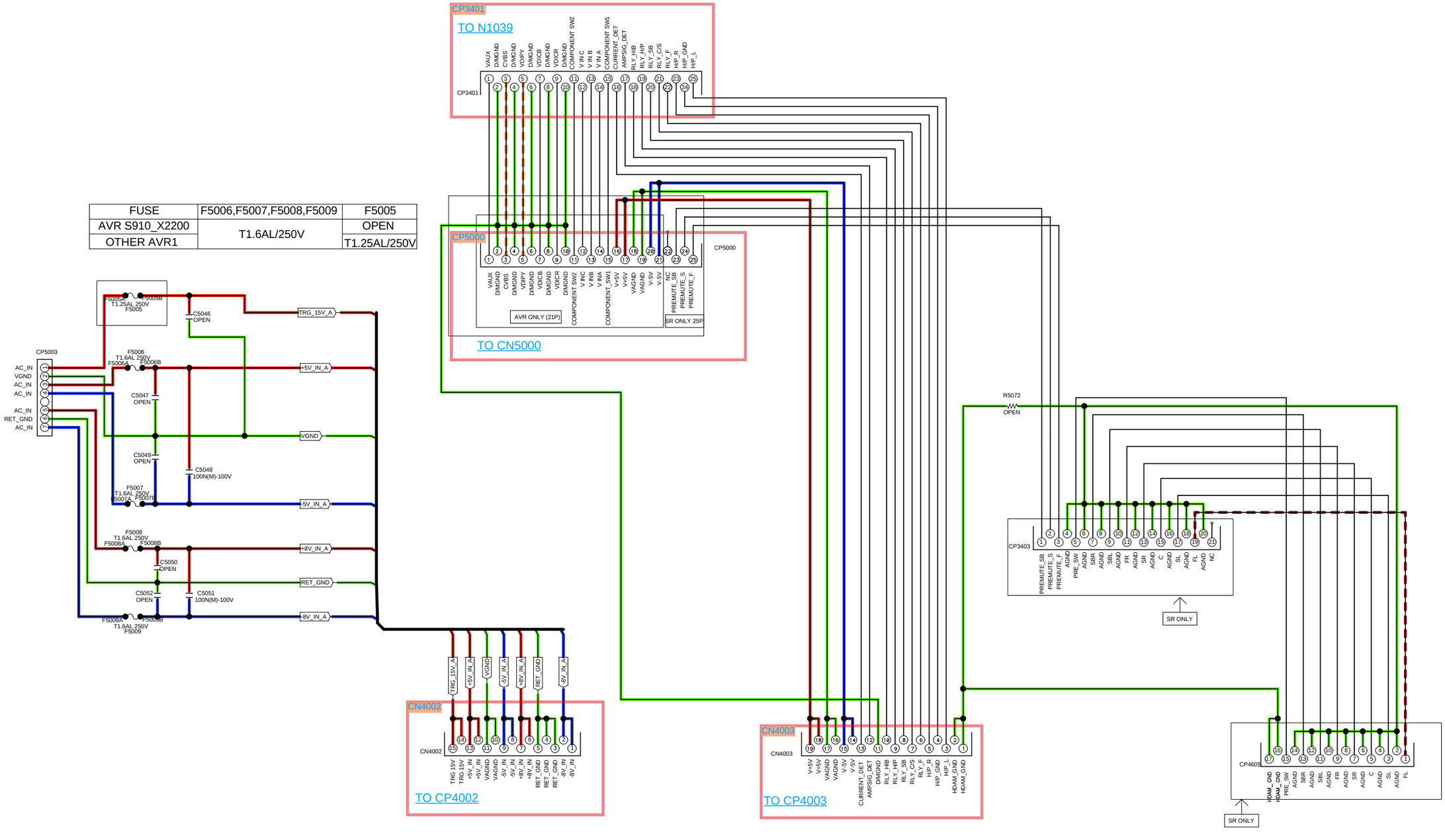
GND LINE
POWER+ LINE
POWER- LINE
ANALOG AUDIO
DIGITAL AUDIO
TMDS SIGNAL
ANALOG VIDEO
DIGITAL VIDEO
HDMI
STBY POWER

SCHEMATIC DIAGRAMS (17/27)
SCH17_VIDEO

FRONT_CNT PART

VIDEO_F/CNT 2/3

FUSE	F5006,F5007,F5008,F5009	F5005
AVR S910_X2200	T1.6AL/250V	OPEN
OTHER AVR1		T1.25AL/250V

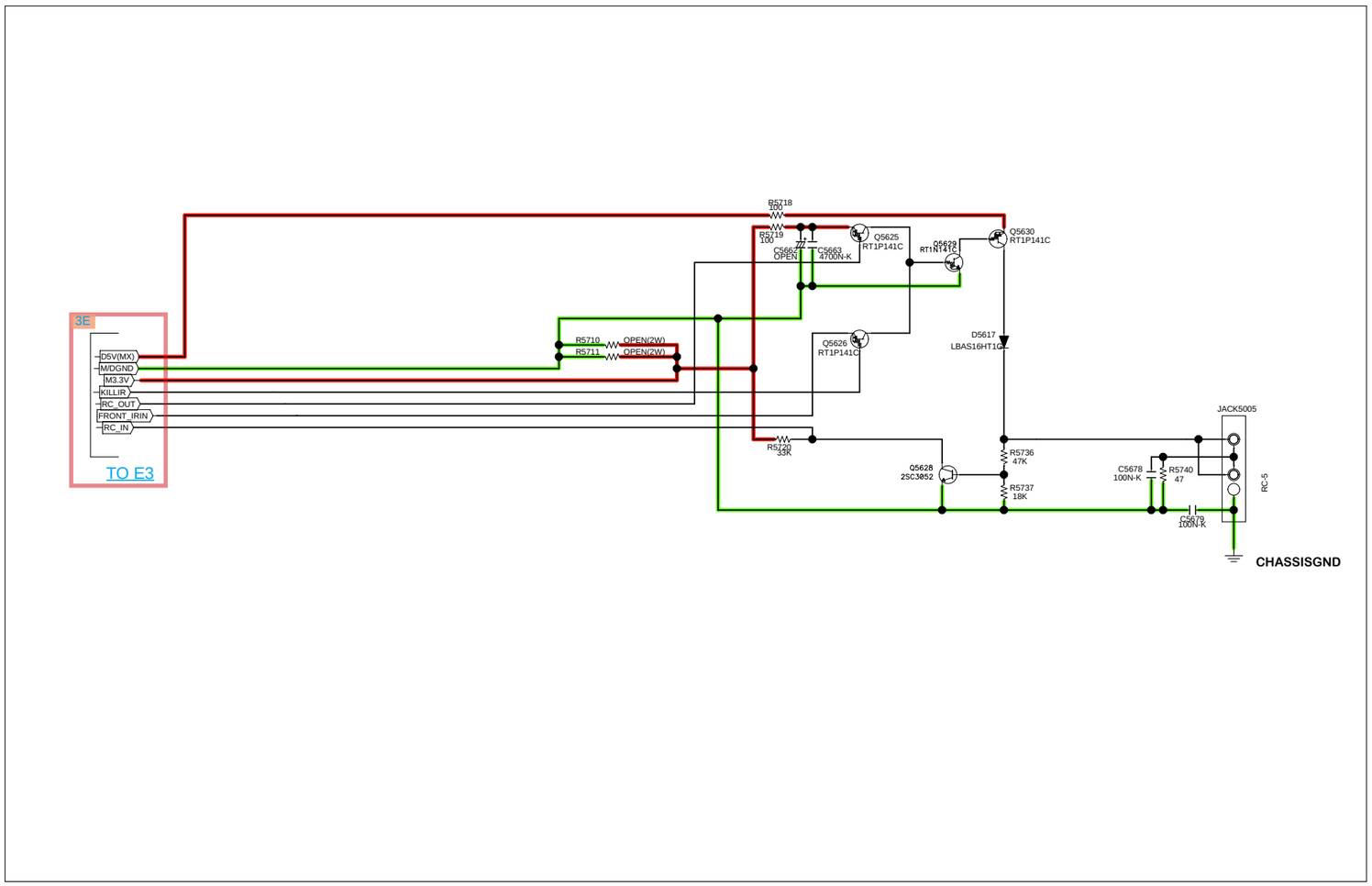


GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | HDMI | STBY POWER

SCHEMATIC DIAGRAMS (18/27)

SCH18_VIDEO_FRONT_CNT

RC-5 PART
SR ONLY



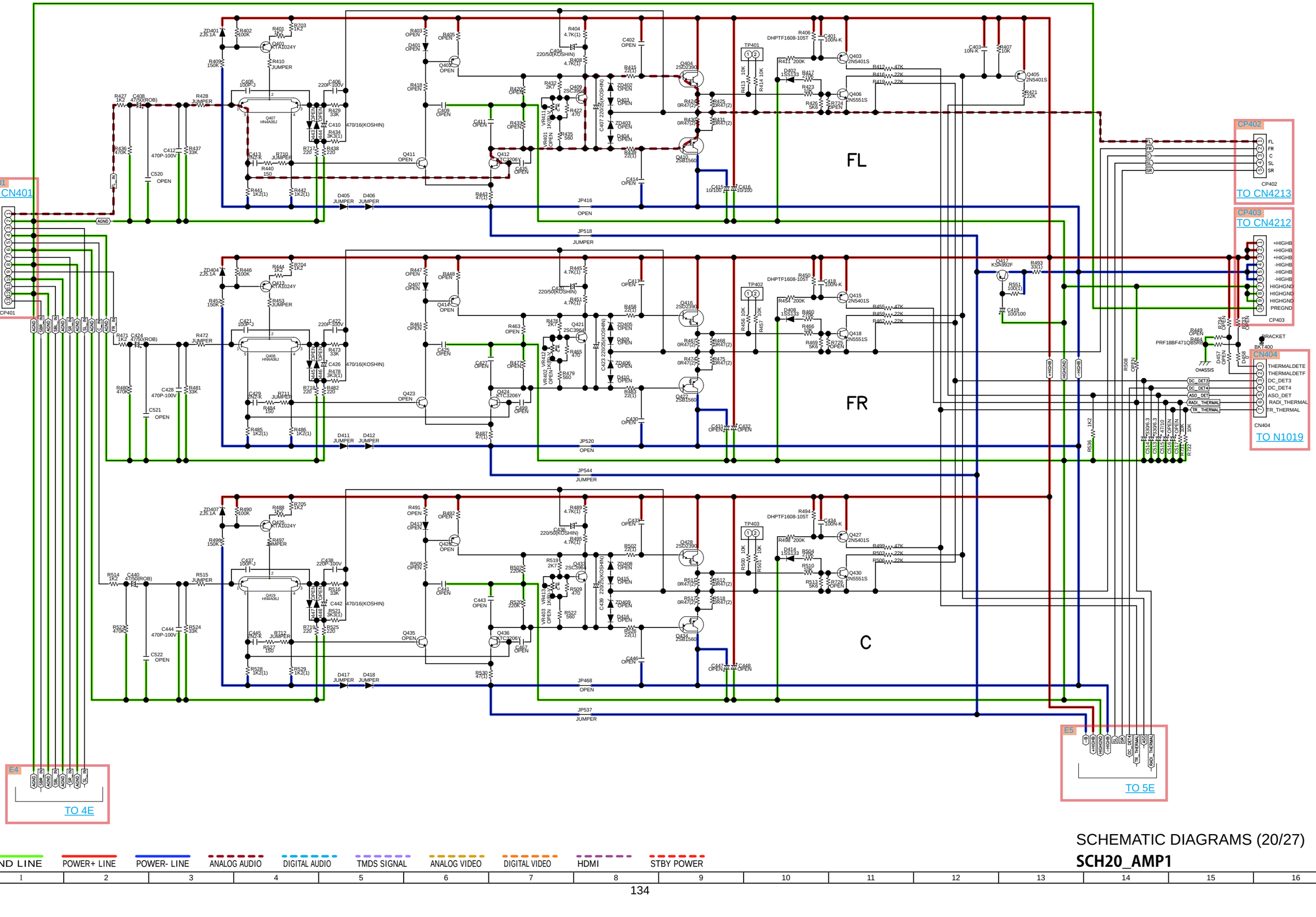
GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | HDMI | STBY POWER

SCHEMATIC DIAGRAMS (19/27)

SCH19_VIDEO_RC5

7CH_AMP

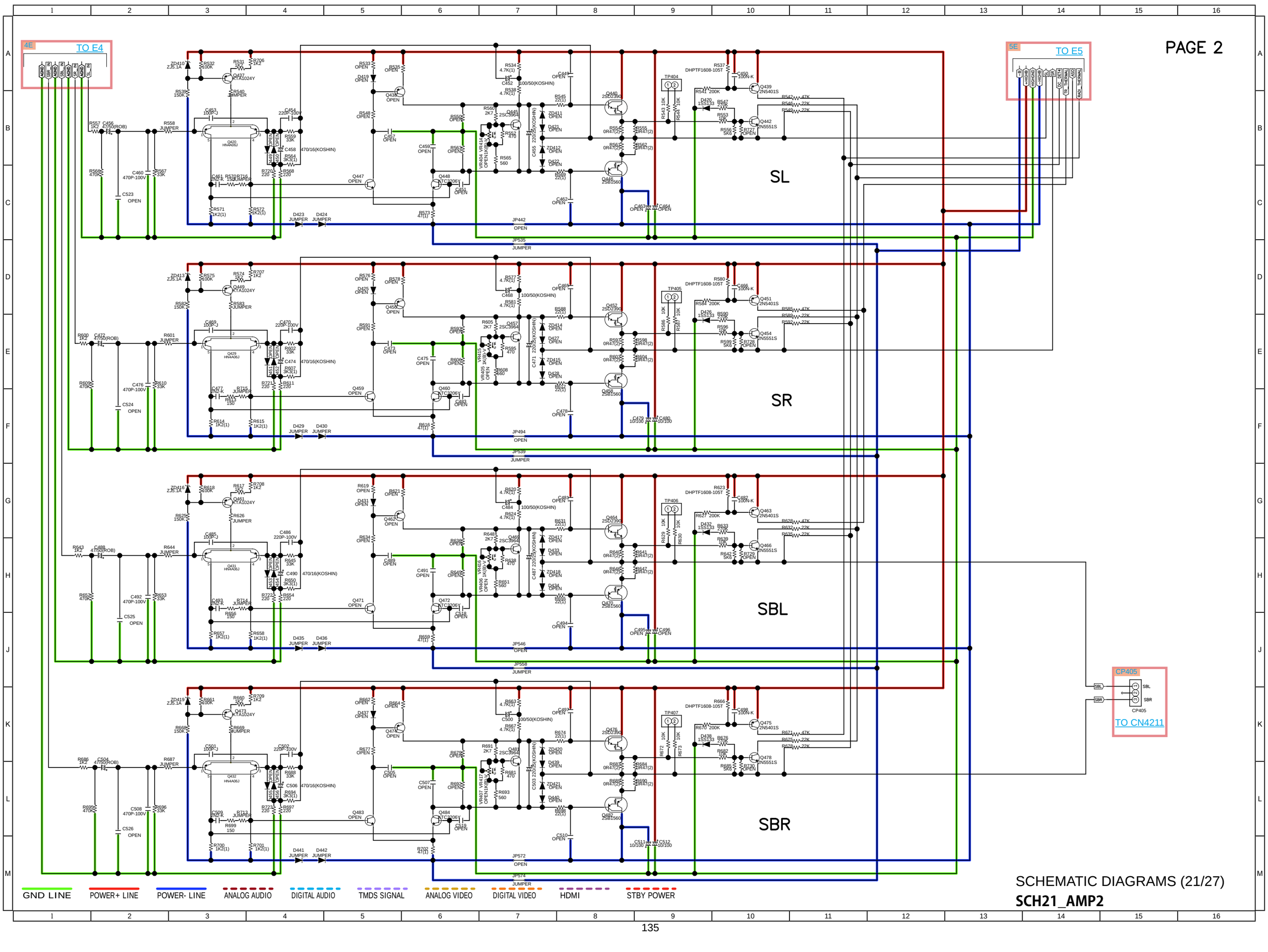
PAGE 1



SCHEMATIC DIAGRAMS (20/27)

SCH20_AMP1

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



SCHEMATIC DIAGRAMS (21/27)

SCH21_AMP2

SPK PART

MAIN 1/3

CN4213 TO CP402 — FL, FR, C, SL, SR

CN4211 — SBL, SBLGND, SBR — TO CP405

CN4212 — +HIGHB, +HIGHB, +HIGHB, −HIGHB, −HIGHB, −HIGHB, HIGHGND, HIGHGND, HIGHGND, PREGND — TO CP403

E6 — H/PR, H/P_GND, H/PL, A_+8V_IN, RET_GND, HPRL, FRL, C/S_RL, SBRL, HIB_RL, MUTE+7V, DGND, AMPSIGDET, CURRENT_DET, A_+8V, A_−8V — TO 6E

RLY4000 BC3−12

RLY4001 JZC-42F

RLY4002 JZC-42F

RLY4003 JZC-42F

RLY4004 JZC-42F

RLY4005 HF115F/012−2Z

OPTION I

OPTION J

OPTION K

OPTION L

OPTION N

OPTION O

JACK4000 — FR_GND, FR_A, FL_GND, FL_A, C_GND, CEN

JACK4001 — SR_GND, SR, SL_GND, SL, SBR_GND, SBR, SBL_GND, SBL

CP4001 35328-0360 — AC_L, NC, AC_H, GND, AC_H, NC, AC_L

F4000 T6.3AL 250 V

F4001 T6.3AL 250 V

* MODEL / AREA OPTION

MODEL	AVR-S910	AVR-X2200		OTHER AVR1	
AREA	E3	E3/E1C/K	E2	U/K	N
OPTION N	10000uF/69V (NICHICON)		12000uF/71V (NICHICON)	10000uF/71V (ELNA)	
OPTION O	1N-K		100N-K	1N-K	100N-K
OPTION I	OPEN			47NF(M)/50V	
OPTION J	OPEN			2N2F/50V	
OPTION K	22N/100V(PP 2A223J)			OPEN	
OPTION L	100N/100V(2A104J)			100N/250V	

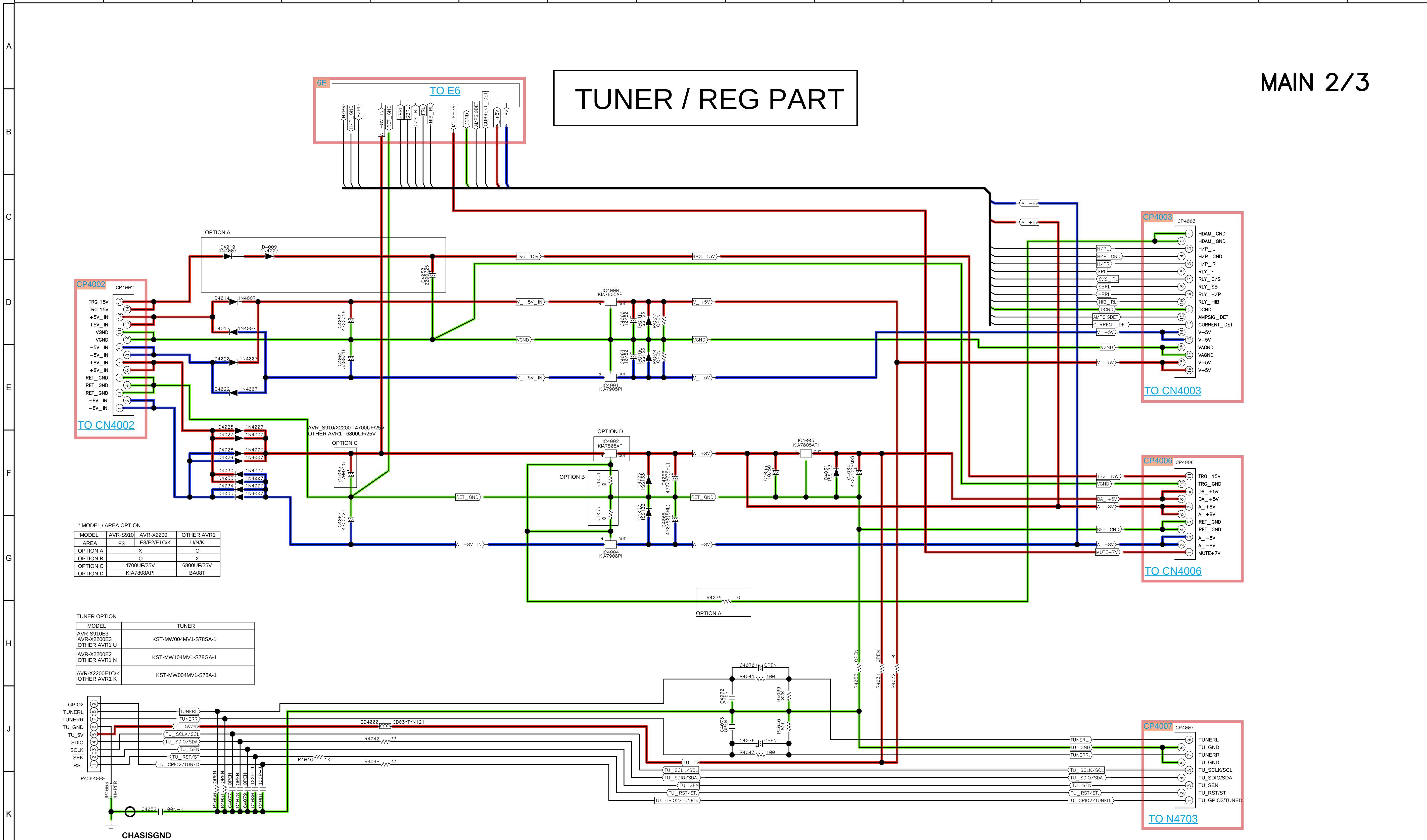
GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | HDMI | STBY POWER

SCHEMATIC DIAGRAMS (22/27)

SCH22_MAIN_SPK

TUNER / REG PART

MAIN 2/3



* MODEL / AREA OPTION

MODEL	AVR-S910	AVR-X2200	OTHER AVR1
AREA	E3	E3/E2/E1C/K	U/N/K
OPTION A	X		O
OPTION B	O		X
OPTION C	4700UF/25V		6800UF/25V
OPTION D	KIA7808API		BA08T

TUNER OPTION

MODEL	TUNER
AVR-S910E3 AVR-X2200E3 OTHER AVR1 U	KST-MW004MV1-S78SA-1
AVR-X2200E2 OTHER AVR1 N	KST-MW104MV1-S78GA-1
AVR-X2200E1C/K OTHER AVR1 K	KST-MW004MV1-S78A-1

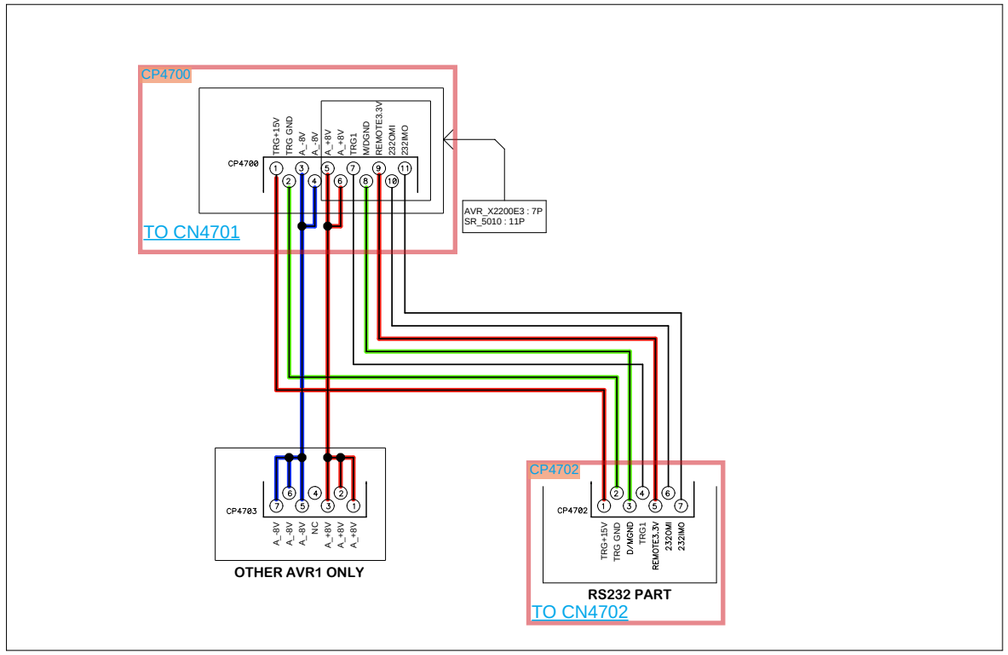
GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | HDMI | STBY POWER

SCHEMATIC DIAGRAMS (23/27)

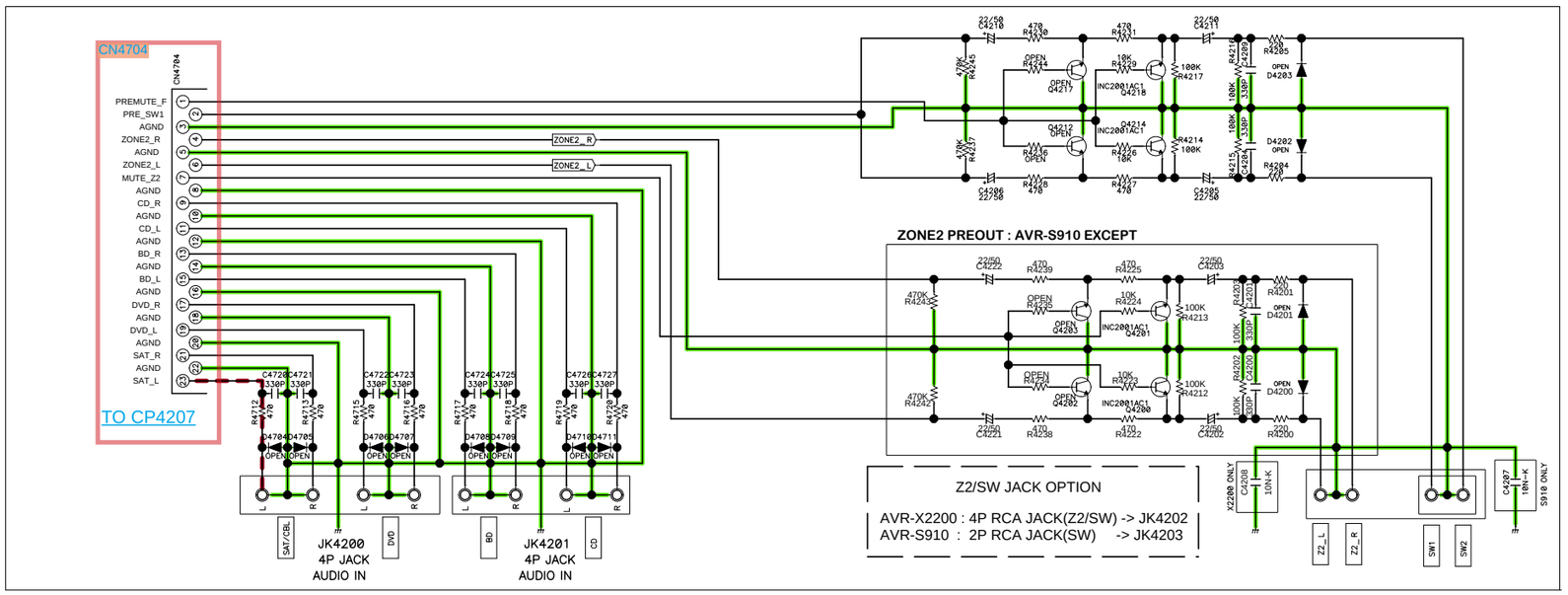
SCH23_MAIN_TUNER_REG

RS_CNT PART
(AVR_X2200E3 / OTHER AVR1 ONLY)

MAIN 3/3



AUDIO IN PART
(AVR SERIES ONLY)

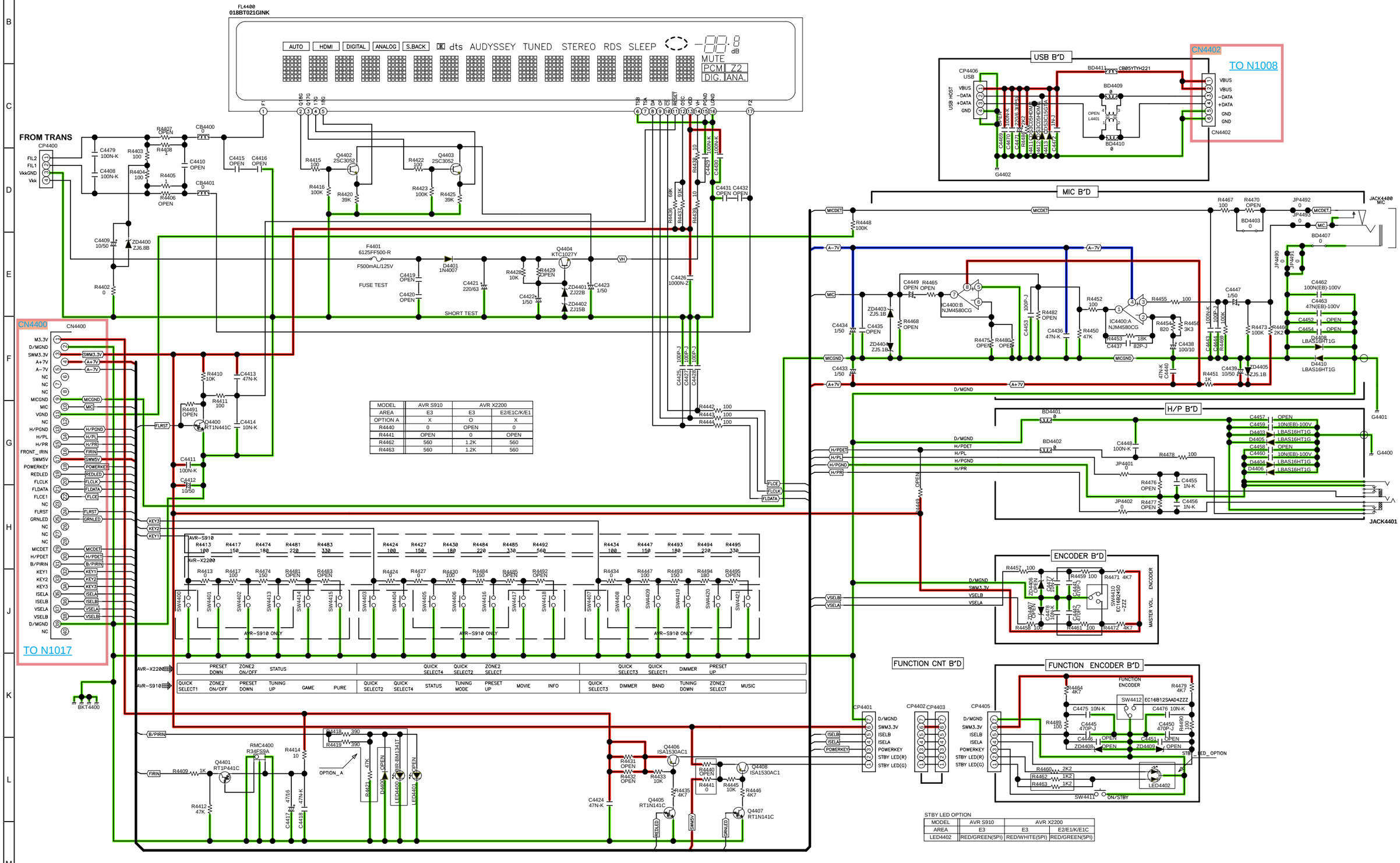


GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | HDMI | STBY POWER

SCHEMATIC DIAGRAMS (24/27)

SCH24_MAIN_RS CNT_AUDIO IN

AVR_S910_X2200_FRONT

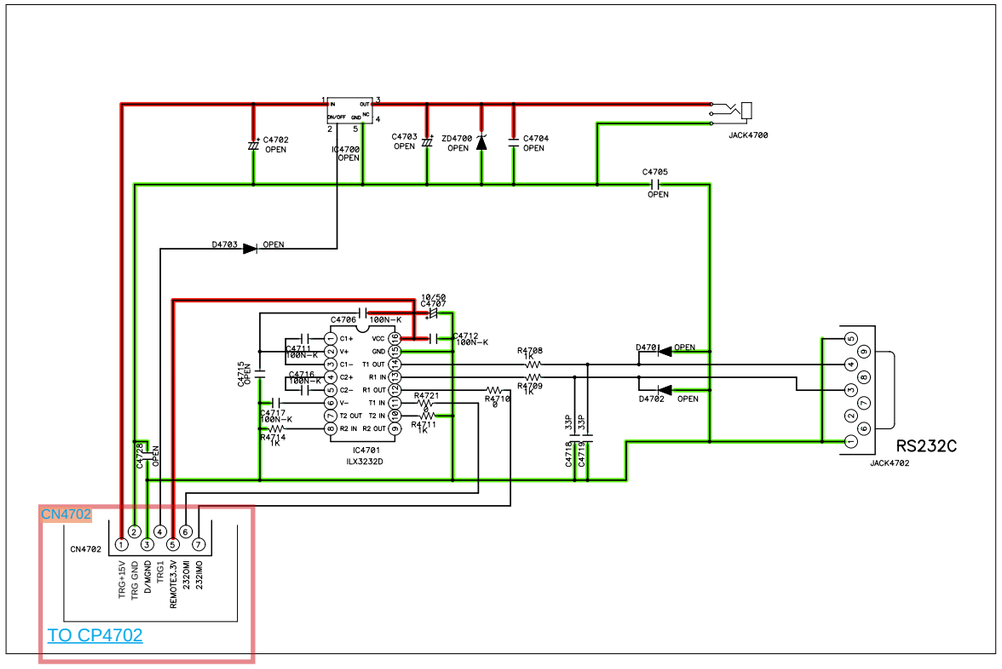


MODEL	AVR S910	AVR X2200	
AREA	E3	E3	E2/E1C/K/E1
OPTION A	X	O	X
R4440	0	OPEN	0
R4441	OPEN	0	OPEN
R4462	560	1.2K	560
R4463	560	1.2K	560

STBY LED OPTION			
MODEL	AVR S910	AVR X2200	
AREA	E3	E3	E2/E1/K/E1C
LED4402	RED/GREEN(5PI)	RED/WHITE(5PI)	RED/GREEN(5PI)

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

RS232 PART
(AVR_X2200E3 ONLY)



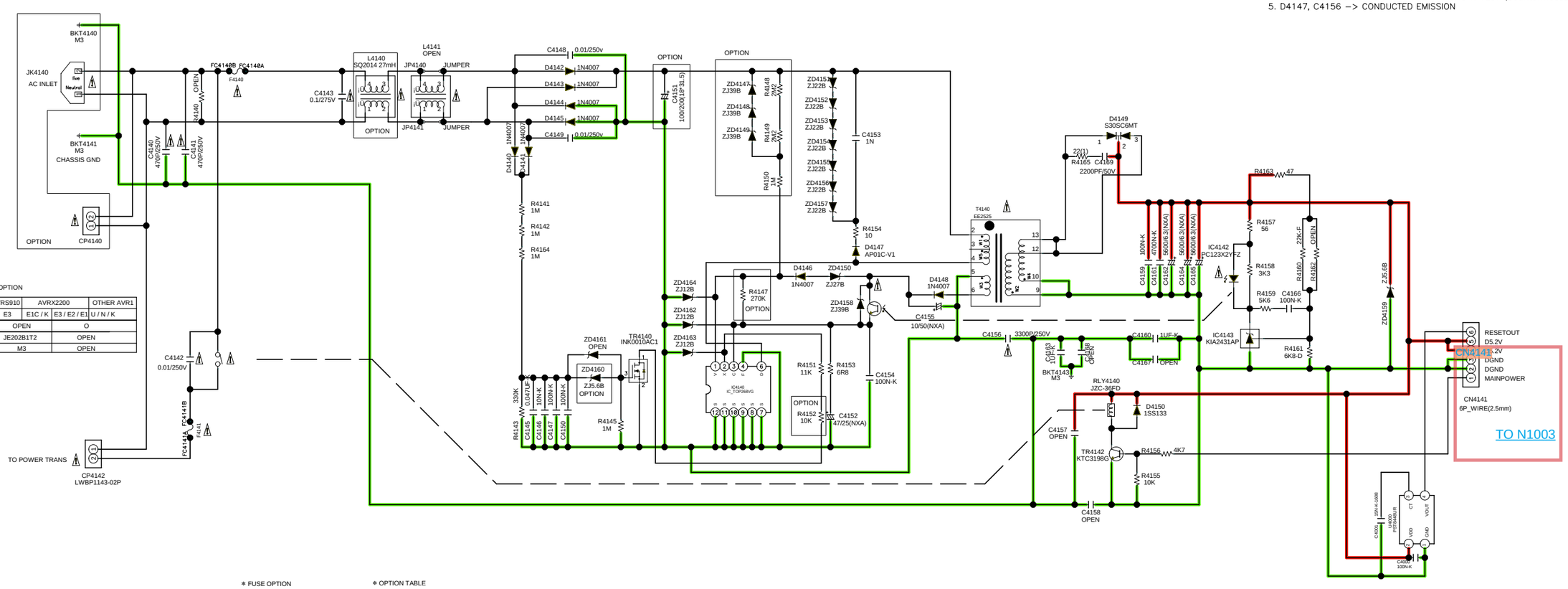
SCHEMATIC DIAGRAMS (26/27)

SCH26_FRONT_RS232

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

SMPS B'D

REVISION
1. ZD4162 –> SMPS SHORT TEST
2. R4151, R4152 –> TRANS FREQUENCY
3. R4163 –> USB POWER
4. ZD4164,ZD4163,C4148,C4149 ADD – >SHORT TEST (Countermeasures against)
5. D4147, C4156 –> CONDUCTED EMISSION



* AC CORD OPTION

	AVRS910	AVRX2200	OTHER AVR1
	E3	E1C / K	E3 / E2 / E1	U / N / K
JK4140	OPEN		O
CP4140	JE202B1T2		OPEN
BKT4140	M3		OPEN

* FUSE OPTION

	E3		K(JP)		E1C, E2	
	F4140	F4141	F4140	F4141	F4140	F4141
AVR_X2200	T2AL	T6.3AL	T2AL	T6.3AL	T1.6AL	T3.15AL
AVR_S910	T2AL	T6.3AL	X	X	X	X

* OPTION TABLE

	ZD4160	ZD4147	ZD4148	ZD4149	R4148	R4149	R4150	R4147	L4140	C4151	R4152
E3, U	ZJ5.6B	ZJ39B	ZJ39B	ZJ39B	2M2 (5)	2M2 (5)	1M (5)	270K	SQ2014 27mH	100/200	10K
E2,E1C / N,K	ZJ15B	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	56K	SQ2014 50mH	100/400	20K
K(JP)	ZJ5.6B	ZJ39B	ZJ39B	ZJ39B	2M2 (5)	2M2 (5)	1M (5)	270K	SQ2014 27mH	100/200	10K

* FUSE OPTION

	U1B		N1SG, N1B, K1B	
	F4140	F4141	F4140	F4141
OTHER AVR1	T2AL	T6.3AL	T1.6AL	T3.15AL

* PCB QUALITY OPTION

	AVRX2200	OTHER AVR1
E2	CHANGCHUN_CTI600J	-
N1B, N1SG	-	CHANGCHUN_CTI600J

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

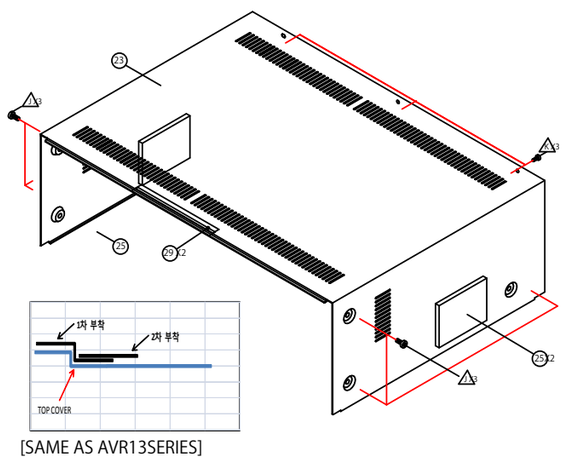
GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | DIGITAL VIDEO | HDMI | STBY POWER

SCHEMATIC DIAGRAMS (27/27)

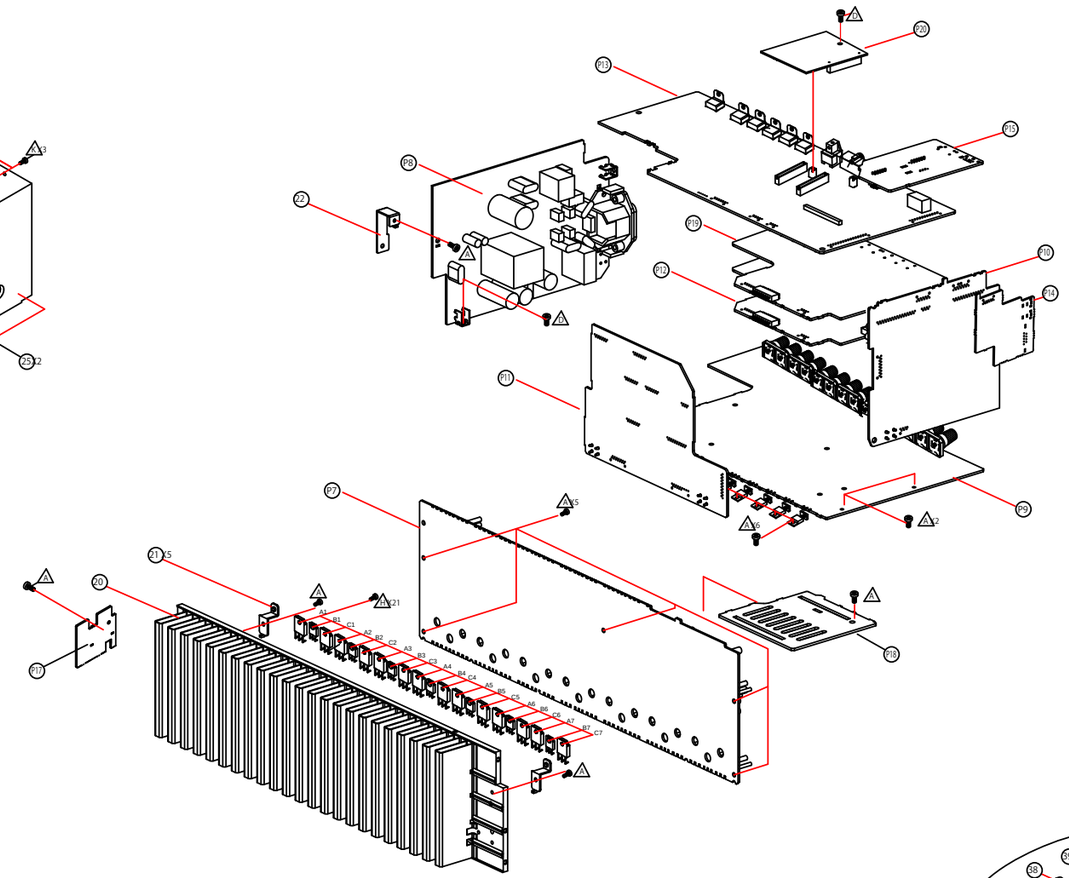
SCH27_SMPS

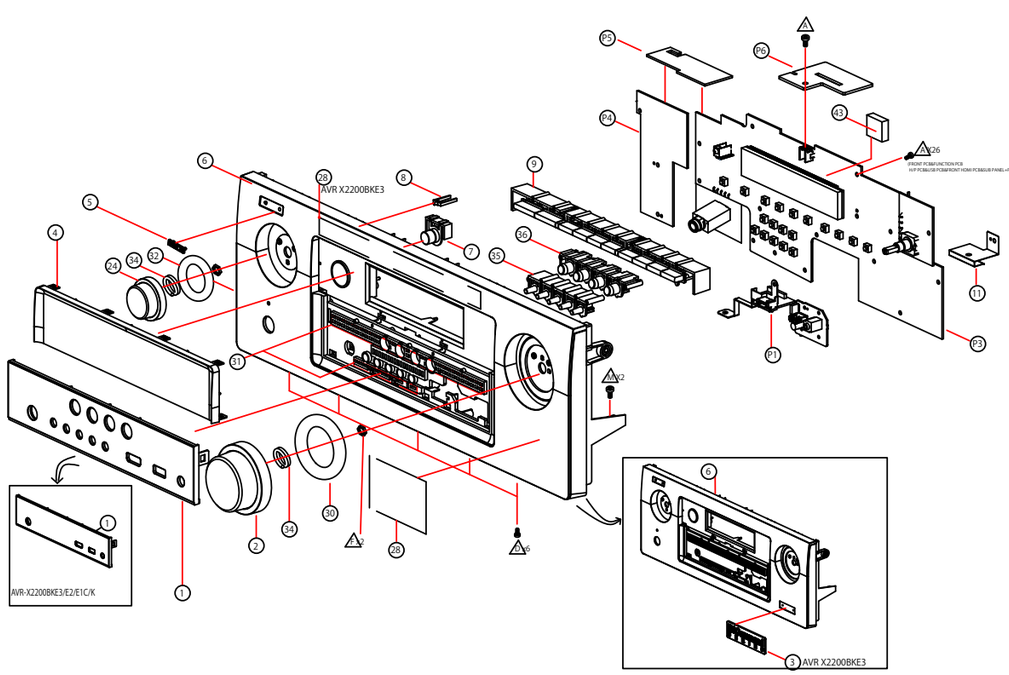
EXPLODED VIEW

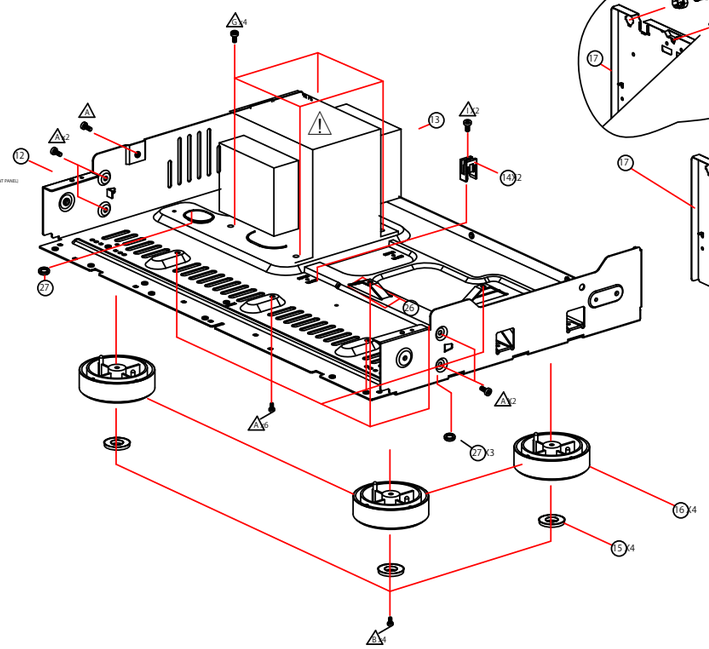
Please see the last chapter for the part list.

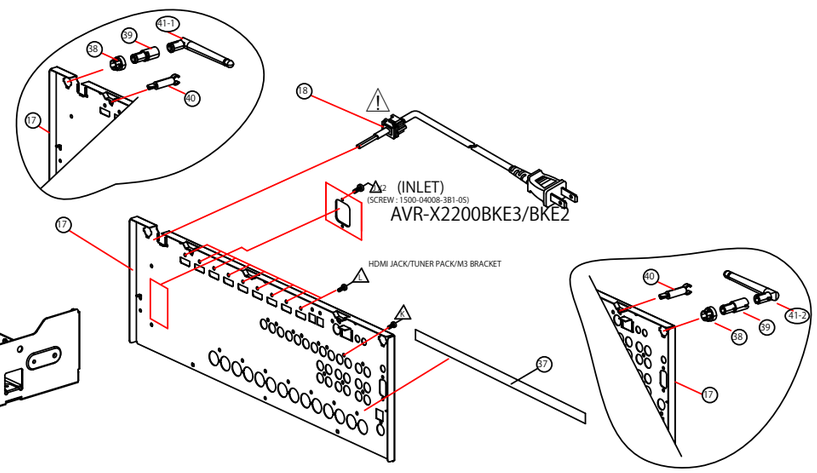


[SAME AS AVR13SERIES]





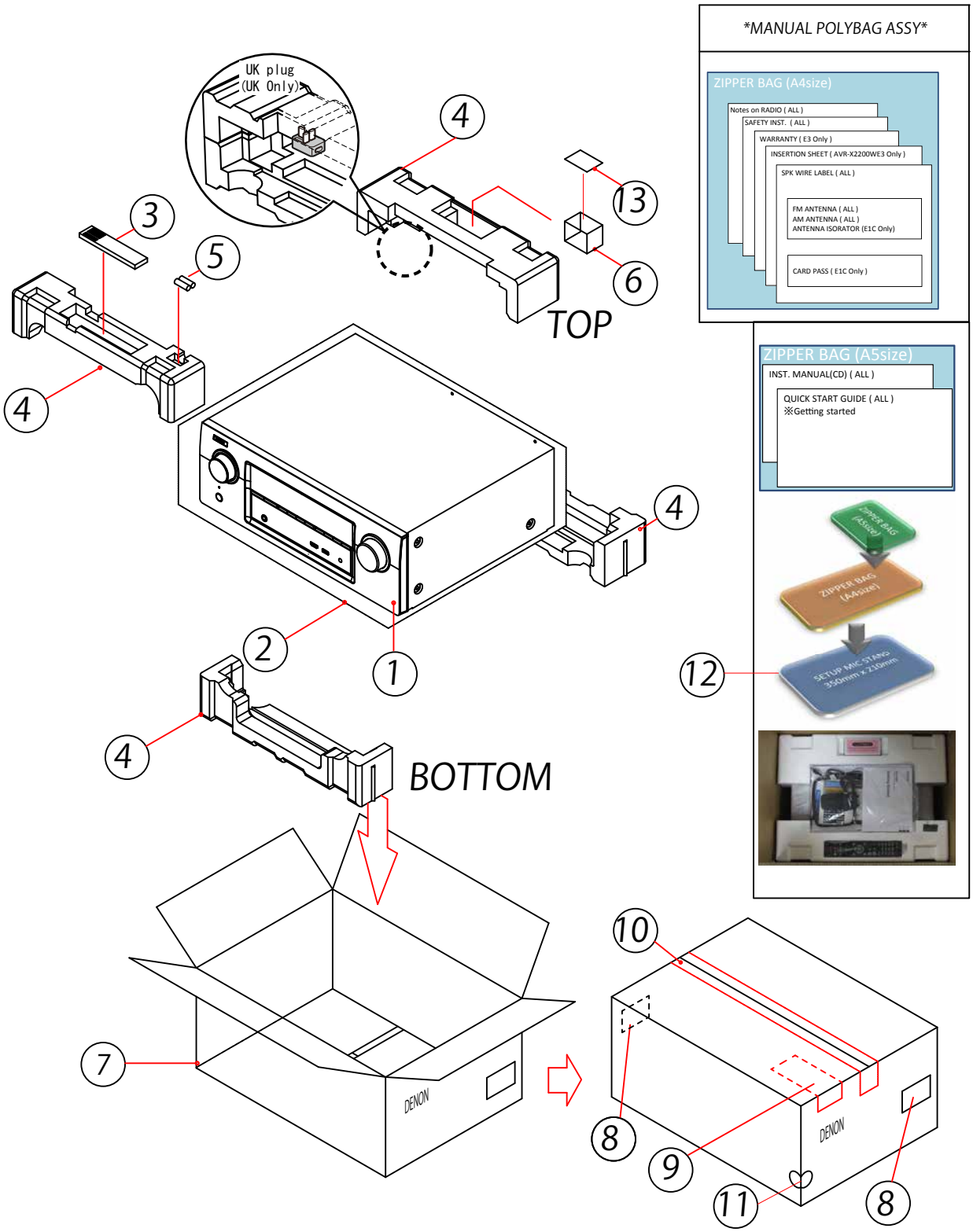


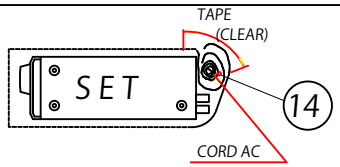
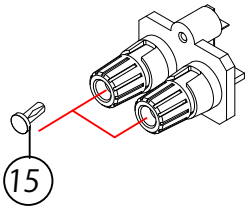
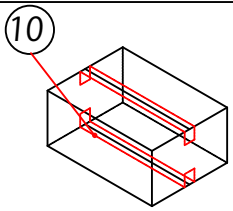


WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

PACKING VIEW

Please see the last chapter for the part list.



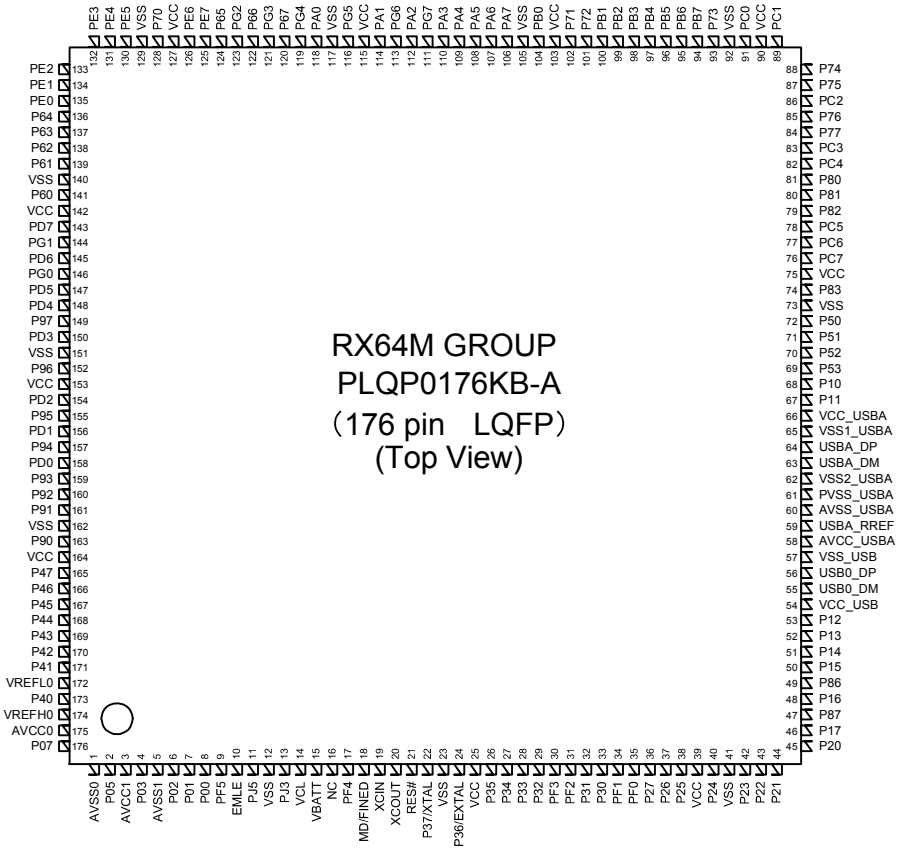
* POLY BAG PACKING STYLE	SPEAKER TERMINAL BUSHING	* BOX BOTTOM TAPING
		

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

R5F564MJCDFC (HDMI : U1018)



R5F56108VNFP Terminal Functions

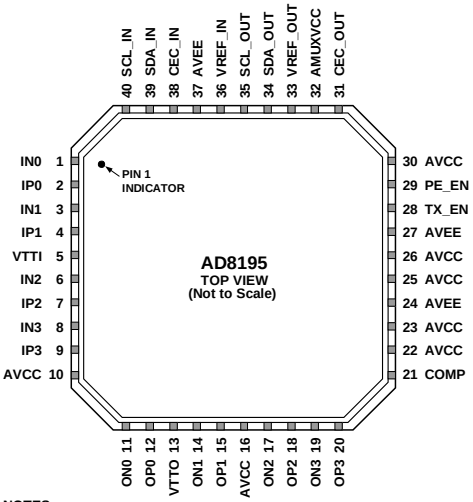
Pin	Pin Name	Symbol	I/O	Pu/Pd	STBY	STOP	CEC STBY	Function
1	AVSS0	AVSS0	-		-	-	-	GND
2	P05/IRQ13	POWER KEY	I	M3VPu	I	I	I	POWER KEY (Waiting Mode cancel, interrupt port)
3	AVCC1	AVCC1	-		-	-	-	POWER pin
4	P03/IRQ11	RED LED	O		L/H	L	H	POWER/STANDBY LED control pin (ON:H)
5	AVSS1	AVSS1	-		-	-	-	GND
6	P02/SCK6/IRQ10/AN120	REMOTE POWER(232C) (X2200(NA))/ NC(X2100(EU/CH/ AP/JP)/S910)	O		L	L	L	232C POWER SUPPLY (REMOTE 3.3V) control pin. (ON: H)
7	P01/RXD6/IRQ9/AN119	RXD MI232O	I	Pd	I	I	I	Data received from the external pin(AMX)
8	P00/TXD6/IRQ8/AN118	TXD MO232I	O		L	L	L	Data transfer to external pin(AMX)
9	PF5/IRQ4	WHITE LED(X2200(NA))/ GREEN LED(X2200(EU/CH/ JP)/S910)	O		L	L	L	POWER LED control pin(ON:H)
10	EMLE	NC	I	Pd	-	-	-	Unused
11	PJ5	VSEL A	I		I	I	I	Master Volume rotation detection pin(Rotary encoder)
12	VSS	VSS	-		-	-	-	GND
13	PJ3	VSEL B	I		I	I	I	Master Volume rotation detection pin(Rotary encoder)
14	VCL	VCL	I		-	-	-	Smoothing capacitor connection pin
15	VBATT	VBATT	-		-	-	-	POWER pin
16	NC	NC	I	Pd	-	-	-	NC(Pull down)
17	TRST#/PF4	NC	I/I	Pd	I/I	I/I	I/I	Unused
18	MD/FINED	NC	I	M3VPu	I	I	I	Unused
19	XCIN	XCIN	I	Pd	-	-	-	NC(Pull down)
20	XCOUT	XCOUT	I		-	-	-	NC(open)
21	RES#	RESET	I		-	-	-	Reset input

Pin	Pin Name	Symbol	I/O	Pu/Pd	STBY	STOP	CEC STBY	Function
22	XTAL/P37	XTAL	I		-	-	-	Oscillator connection(12MHz)
23	VSS	VSS	-		-	-	-	GND
24	EXTAL/P36	EXTAL	-		-	-	-	Oscillator connection(12MHz)
25	VCC	VCC	-		-	-	-	POWER pin
26	UPSEL/P35(IN)/NMI	DSP FLAG3	I	Pd	I	I	I	DSP control pin
27	P34/SCK6/SCK0/IRQ4	BDOWN	I		I	I	I	Power failure detection pin
28	P33/TIOCD0/RXD6/ RXD0/IRQ3-DS	RC IN	I		I	I	I	Remote control signal input pin
29	P32/TIOCC0/TXD6/TXD0/ IRQ2-DS	NC	O/I		L/I	L/I	L/I	NC
30	TMS/PF3	NC	I/I	M3VPu	-/I	-/I	I	Unused
31	TDI/PF2/RXD1	NC	I/O/I	M3VPu	-/-/I	-/-/I	I	Unused
32	P31/IRQ1-DS	TU GPO2_INT	I		L	L	L	TUNER control pin
33	P30/RXD1	TU SDIO	I_O	SW3VPu	L	L	L	TUNER control pin
34	TCK/FINEC/PF1/SCK1	NC	I/I/I	M3VPu	-/-/I	-/-/I	I	Unused
35	TD0/TXD1/PF0	NC	O/O/I	M3VPu	-/-/I	-/-/I	I	Unused
36	P27/SCK1	TU SEN	O		L	L	L	TUNER control pin
37	P26/TXD1	TU SCLK	O		L	L	L	TUNER control pin
38	P25/RXD3	TU RST	O	SW3VPu	L	L	L	TUNER control pin
39	VCC	VCC	-		-	-	-	POWER pin
40	P24/SCK3	NC	O		L	L	L	NC
41	VSS	VSS	-		-	-	-	GND
42	P23/TXD3	E SPI CS	O	N3VPu	L	L	L	ETHERNET communication control pin(CY920)
43	P22/SCK0	E SPI CLK	O	N3VPu	L	L	L	ETHERNET communication control pin(CY920)
44	P21/RXD0/IRQ9	E SPI MIEO	I	N3VPu	I	L	I	ETHERNET communication control pin(CY920)
45	P20/TXD0/IRQ8	E SPI MOEI	O	N3VPu	L	L	L	ETHERNET communication control pin(CY920)
46	P17/SCK1/TXD3/IRQ7	E SPI REQ	I	Pd	I	L	I	ETHERNET communication control pin(CY920)
47	P87/TXD10/TIOCA2	NC	O		L/H	L/L	L/H	NC
48	P16/TXD1/RXD3/IRQ6	E RESET	O(ODR)	N3VPu	L	L	L	ETHERNET RESET control pin(CY920)
49	P86/RXD10	PRE Z2 MUTE(X2200)/ NC(S910)	O		L	L	L	ZONE2 PRE OUT MUTE control pin
50	P15/RXD1/SCK3/IRQ5	AEXP STB	O		L	L	L	EXPANDER control pin
51	P14/IRQ4	AEXP OE	O		L	L	L	EXPANDER control pin
52	P13/TXD2/IRQ3	AEXP CLK	O		L	L	L	EXPANDER control pin
53	P12/RXD2/IRQ2	AEXP DATA	O		L	L	L	EXPANDER control pin
54	VCC_USB	VCC_USB	-		-	-	-	POWER pin
55	USB0_DM	USB0_DM	-		-	-	-	NC(open)
56	USB0_DP	USB0_DP	-		-	-	-	NC(open)
57	VSS_USB	VSS_USB	-		-	-	-	GND
58	AVCC_USBA	AVCC_USBA	-		-	-	-	POWER pin
59	USBA_PREF	USBA_PREF	-		-	-	-	NC(open)
60	AVSS_USBA	AVSS_USBA	-		-	-	-	GND
61	PVSS_USBA	PVSS_USBA	-		-	-	-	GND
62	VSS2_USBA	VSS2_USBA	-		-	-	-	GND
63	USBA_DM	USBA_DM	-		-	-	-	NC(open)
64	USBA_DP	USBA_DP	-		-	-	-	NC(open)
65	VSS1_USBA	VSS1_USBA	-		-	-	-	GND
66	VCC_USBA	VCC_USBA	-		-	-	-	POWER pin
67	P11/SCK2/IRQ1	CEC_OUT	O		L	L	-	CEC-D signal output pin
68	P10/IRQ0	CEC_IN	I	SW3VPu	I	I	I	CEC-D signal input pin
69	P53	ADV8003 SPI CS	O		L	L	L	GUI control pin(ADV8003)
70	P52/RXD2	ADV8003 SPI MI	I		L	L	L	GUI control pin(ADV8003)
71	P51/SCK2	ADV8003 SPI CLK	O		L	L	L	GUI control pin(ADV8003)
72	P50/TXD2	ADV8003 SPI MO	O		L	L	L	GUI control pin(ADV8003)
73	VSS	VSS	-		-	-	-	GND
74	P83/SCK10	IP_RST	O	Pd	I	I	L	HDMI ADV8003 RESET control pin
75	VCC	VCC	-		-	-	-	POWER pin
76	UB/PC7/TXD8/IRQ14	NC	I	Pd	-	-	-	Unused
77	PC6/RXD8/IRQ13	AVSDA	I_O	DV3VPu	O/L	O/L	L	VIDEO I2C- ADV8003/ADV7850
78	PC5/SCK8	AVSCL	I_O	DV3VPu	O/L	O/L	L	VIDEO I2C- ADV8003/ADV7850
79	P82/TXD10	DSP MOSI	O	DA3VPu	L	L	L	DSP control pin
80	P81/RXD10	DSP MISO	I	DA3VPu	L	L	L	DSP control pin
81	P80/SCK10	DSP CLK	O	DA3VPu	L	L	L	DSP control pin
82	PC4/SCK5	DSP CS	O	DA3VPu	L	L	L	DSP control pin
83	PC3/TXD5	DSP FLAG0	I	Pd	L	L	L	DSP control pin
84	P77/TXD11	DSP RST	O		L	L	L	DSP reset output pin (Reset : L)
85	P76/RXD11	DSP BUSY	I		L	L	L	DSP control pin

Pin	Pin Name	Symbol	I/O	Pu/Pd	STBY	STOP	CEC STBY	Function
86	PC2/RXD5	DA_POWER	O		L	L	L	DIGITAL AUDIO POWER SUPPLY (DA3.3V) control pin.(ON:H)
87	P75/SCK11	CEC POWER2	O		L	L	L	CEC STANDBY SUPPLY control pin(CEC STANDBY)
88	P74	DSP ROM WRITE	O		L	L	L	DSP ROM rewrite path switching (DSP rewritten during the "H")
89	PC1/SCK5/IRQ12	DAC.PLD ERR	I		L	L	L	PLD ERROR detection pin
90	VCC	VCC	-		-	-	-	POWER pin
91	PC0/IRQ14	H/P RL	O	-	L	L	L	HEADPHONE RLY control pin
92	VSS	VSS	-		-	-	-	GND
93	P73	FRONT RL	O	-	L	L	L	SPEAKER RELAY control pin
94	PB7/TXD9	HSDA	I/O	CEC3VPu	L	L	L	HDMI I2C- MN864788
95	PB6/RXD9	HSCL	I/O	CEC3VPu	L	L	L	HDMI I2C- MN864788
96	PB5/SCK9	JTAG TDO	I		L	L	L	A.PLD rewriting pin(JTAG)
97	PB4	APLD CS	O		L	L	L	A.PLD control pin
98	PB3/SCK4/SCK6	APLD DATA/DAC DATA	O		L	L	L	Audio PLD Control I/F / DAC Control
99	PB2	APLD CLK/DAC CLK	O		L	L	L	Audio PLD Control I/F / DAC Control
100	PB1/TXD4/TXD6/IRQ4-DS	DAC MS	O		L	L	L	DAC Control (PCM1690)
101	P72	DAC RST	O		L	L	L	DAC Control (PCM1690)
102	P71	PRE MUTE	O	-	L	L	L	PRE OUT MUTE control pin
103	VCC	VCC	-		-	-	-	POWER pin
104	PB0/RXD4/RXD6/IRQ12	DA POWER2	O		L	L	L	DIGITAL AUDIO POWER SUPPLY (DA1.0V) control pin.(ON:H)
105	VSS	VSS	-		-	-	-	GND
106	PA7	ISEL A	I		I	I	I	Input Selector rotation detection pin(Rotary encoder)
107	PA6	ISEL B	I		I	I	I	Input Selector rotation detection pin(Rotary encoder)
108	PA5	C/S RL	O		L	L	L	SPEAKER RELAY control pin
109	PA4/TXD5/SSDA5/IRQ5-DS	EEPROM SDA	O	M3VPu	I	I	I	EEPROM control pin
110	PA3/RXD5/SSCL5	EEPROM SCL	I_O	M3VPu	I	I	I	EEPROM control pin
111	TRDATA3/PG7	VOL CLK	O		L	L	L	FUNCTION / VOLUME control pin(BD34703KS2)
112	PA2/RXD5	VOL DATA	O		L	L	L	FUNCTION / VOLUME control pin(BD34703KS2)
113	TRDATA2/PG6	JTAG TMS	O	DA3.3Pu	L	L	L	A.PLD rewriting pin(JTAG)
114	PA1/SCK5/IRQ11	JTAG TDI	O	DA3.3Pu	L	L	L	A.PLD rewriting pin(JTAG)
115	VCC	VCC	-		-	-	-	POWER pin
116	TRCLK/PG5	JTAG TCK	O	PD	L	L	L	A.PLD rewriting pin(JTAG)
117	VSS	VSS	-		-	-	-	GND
118	PA0	H5V DET	I	-	I	I	I	HDMI INPUT 5V (for EDID / HOT PLUG) detection pin
119	TRSYNC/PG4	FL RST	O		L	L	L	VFD control pin
120	P67/IRQ15	FL CE	O		L	L	L	VFD control pin
121	TRDATA1/PG3	FL CLK	O		L	L	L	VFD control pin
122	P66	FL DATA	O		L	L	L	VFD control pin
123	TRDATA0/PG2	SB RL	O		L	L	L	SPEAKER RELAY control pin
124	P65	NC	O		L	L	L	NC
125	PE7/IRQ7/AN105	ASO DET	I	SW3VPu	I	L	I	PROTECTION (ASO)
126	PE6/IRQ6/AN104	DC DET	I	SW3VPu	I	L	I	PROTECTION (DC DET)
127	VCC	VCC	-		-	-	-	POWER pin
128	P70	HIGH B RL	O		L	L	L	HIGH B RELAY control pin
129	VSS	VSS	-		-	-	-	GND
130	PE5/IRQ5/AN103	MAIN POWER	O		L	L	L	MAIN POWER control pin
131	PE4/AN102	CPU POWER	O		L	L	L	CPU INTERFACE POWER SUPPLY (SWM3.3V & SWM5V) control pin (POWER ON: H , CEC ON STANDBY: H)
132	PE3/AN101	E POWER1	O		L	L	L	ETHERNET POWER SUPPLY (NET3.3V) control pin
133	PE2/RXD12/IRQ7-DS/ AN100	E POWER2	O		L	L	L	ETHERNET POWER SUPPLY (NET2.5V) control pin
134	PE1/TXD12	E POWER3	O		L	L	L	ETHERNET POWER SUPPLY (NET1.8V) control pin
135	PE0/SCK12	E POWER4	O		L	L	L	ETHERNET POWER SUPPLY (NET1.2V) control pin
136	P64	D5V POWER	O		L	L	H	DIGITAL POWER SUPPLY (D3.3V) control pin (ON:H)
137	P63	CEC_POWER	O		L	L	※	HDMI CEC POWER SUPPLY control pin (CEC5V,CEC3.3V,CEC1.8V)
138	P62	DV_POWER1	O		L	L	L	Digital VIDEO POWER SUPPLY control pin (DV5V,DV3.3V)
139	P61	DV_POWER2	O		L	L	L	Digital VIDEO POWER SUPPLY control pin (DV1.8V)
140	VSS	VSS	-		-	-	-	GND
141	P60	DIR DIN	O		L	L	L	DIR control pin(PCM9211)
142	VCC	VCC	-		-	-	-	POWER pin
143	PD7/IRQ7/AN107	DIR CE	O		L	L	L	DIR control pin(PCM9211)

Pin	Pin Name	Symbol	I/O	Pu/Pd	STBY	STOP	CEC STBY	Function
144	PG1	DIR DOUT	I	DA3.3Pu	I	I	I	DIR control pin(PCM9211)
145	PD6/IRQ6/AN106	DIR CLK	O		L	L	L	DIR control pin(PCM9211)
146	PG0	DIR RST	O		L	L	L	DIR control pin(PCM9211)
147	PD5/IRQ5/AN113	788_2_HAINT	I	-	Z		-	HDMI MN864788(RX) Audio INT input pin
148	PD4/IRQ4/AN112	NC	I		I	L	I	Unused
149	P97	DE_RST	O	Pd	Z		L	HDMI ADV7850 RESET control pin
150	PD3/IRQ3/AN111	788_1_HINT	I	-	Z		-	HDMI MN864788(TX) HDMI INT input pin
151	VSS	VSS	-		-	-	-	GND
152	P96	788_1_RST	O	Pd	Z		※	HDMI MN864788(TX) RESET control pin
153	VCC	VCC	-		-	-	-	POWER pin
154	PD2/IRQ2/AN110	788_2_HINT	I	-	Z		-	HDMI MN864788(RX) HDMI INT input pin
155	P95	788_2_RST	O	Pd	Z		※	HDMI MN864788(RX) RESET control pin
156	PD1/IRQ1/AN109	788_3_HINT	I	-	Z		-	HDMI MN864788(RX) HDMI INT input pin
157	P94	788_3_RST	O	Pd	Z		※	HDMI MN864788(RX) RESET control pin
158	PD0/IRQ0/AN108	TX EN	O		L	L	L	Front HDMI INPUT (AD8195) control pin
159	P93/AN117	THERMAL A	I	SW3VPu	I	L	I	HEAT PROTECT-A detection pin(P.TR)
160	P92/RXD7/AN116	THERMAL B	I	SW3VPu	I	L	I	HEAT PROTECT-A detection pin(P.TR)
161	P91/AN115	NC	I	-	I	I	I	NC
162	VSS	VSS	-		-	-	-	GND
163	P90/TXD7/AN114	THERMAL E	I	SW3VPu	I	L	I	HEAT PROTECT-A detection pin(Heat Sink)
164	VCC	VCC	-		-	-	-	POWER pin
165	P47/IRQ15-DS/AN007	788_3_HAINT	I	-	Z		-	HDMI MN864788(RX) Audio INT input pin
166	P46/IRQ14-DS/AN006	CURRENT DET	I/O		I/L	L/L	I/L	AMP CURRENT detection pin
167	P45/IRQ13-DS/AN005	AMPSIGDET	I		I	L	I	AMP SIGNAL detection pin
168	P44/IRQ12-DS/AN004	MODE	I		I	I	I	Destination detection pin
169	P43/IRQ11-DS/AN003	KEY3	I	M3VPu	I	I	I	Button input 3
170	P42/IRQ10-DS/AN002	KEY2	I	M3VPu	I	I	I	Button input 2
171	P41/IRQ9-DS/AN001	KEY1	I	M3VPu	I	I	I	Button input 1
172	VREFL0	VREFL0	-		-	-	-	GND
173	P40	MIC DET	I		I	I	I	MIC detection detection pin
174	VREFH0	VREFH0	-		-	-	-	POWER pin
175	AVCC0	AVCC0	-		-	-	-	POWER pin
176	P07/IRQ15	H/P DET	I		I	I	I	Headphone detection detection pin

AD8195ACPZ (HDMI : U1022)



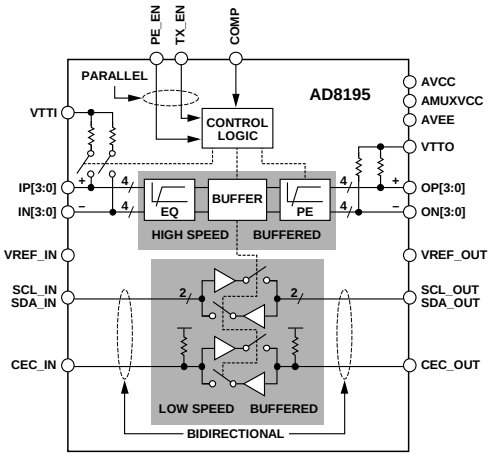
NOTES
1. THE AD8195 LFCSP HAS AN EXPOSED PAD ON THE UNDERSIDE OF THE PACKAGE THAT AIDS IN HEAT DISSIPATION. THE PAD MUST BE ELECTRICALLY CONNECTED TO THE AVEE SUPPLY PLANE IN ORDER TO MEET THERMAL SPECIFICATIONS.

07049-003

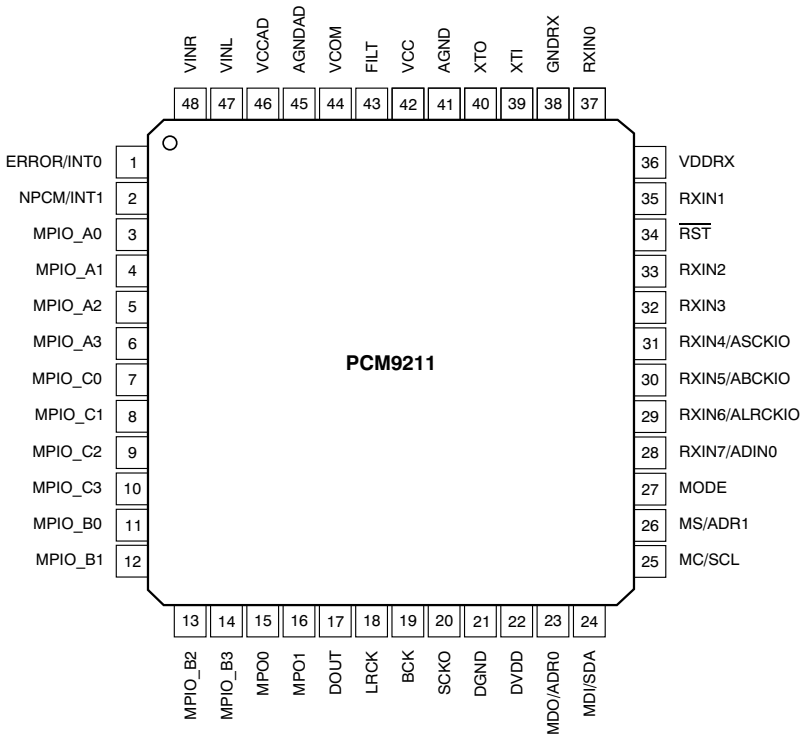
AD8195ACPZ Terminl Function

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

AD8195ACPZ Block diagram



PCM9211 (HDMI : U1040)



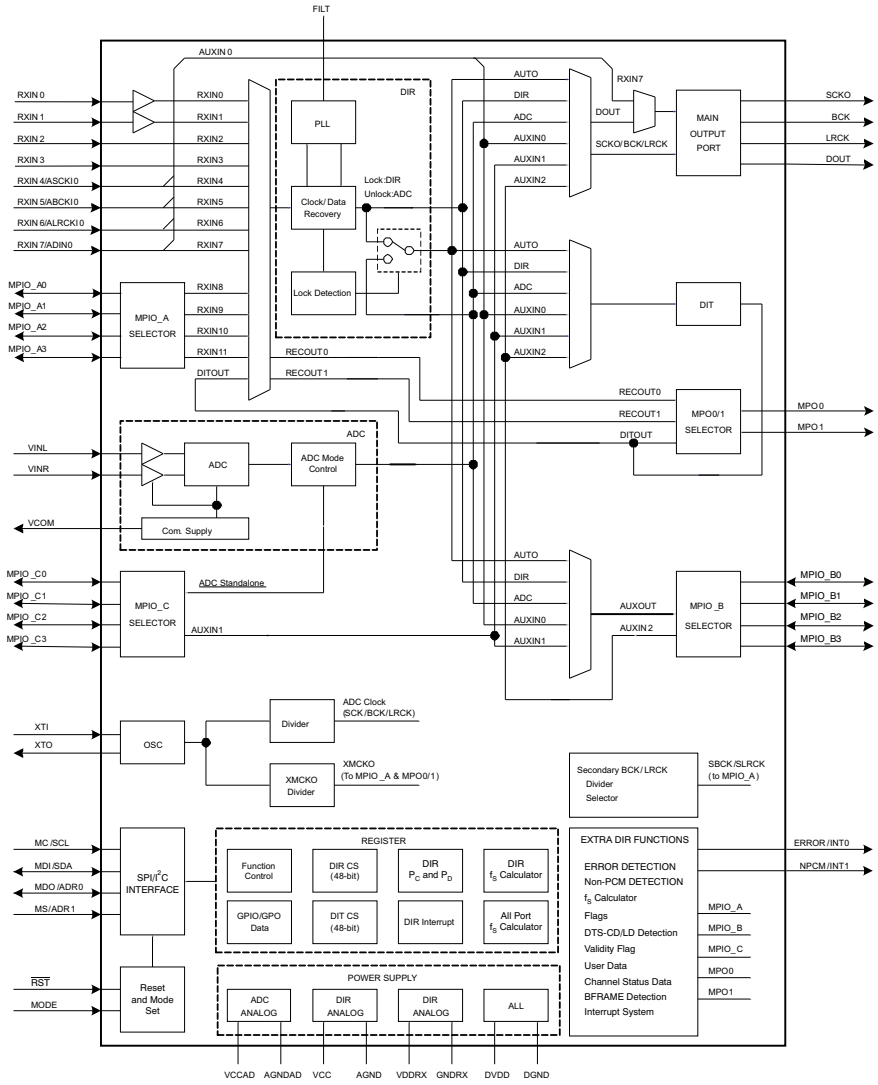
PIN Functions

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

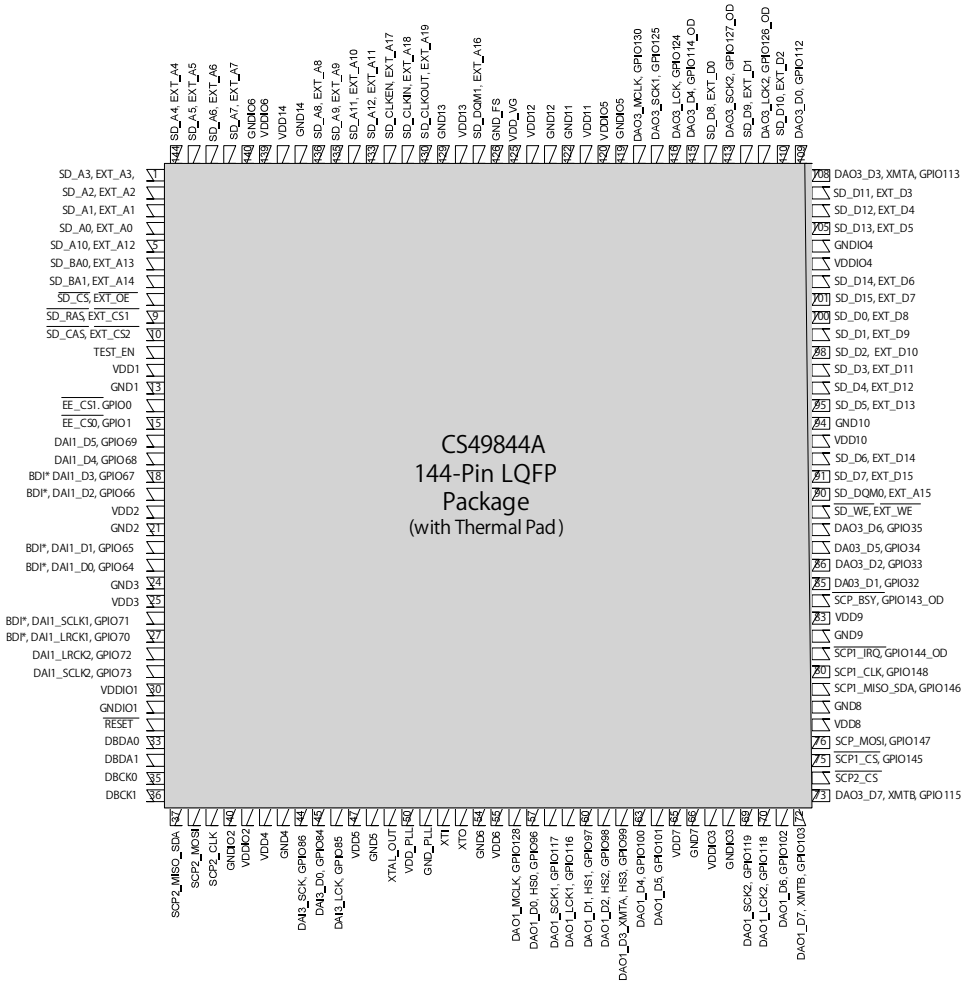
PIN				DESCRIPTION
NO.	NAME	I/O	5-V TOLERANT	
35	RXIN1	I	Yes	Biphase signal, input 1, built-in coaxial amplifier
36	VDDRX	–	–	Power supply, 3.3 V (typ.), for RXIN0 and RXIN1.
37	RXIN0	I	Yes	Biphase signal, input 0, built-in coaxial amplifier
38	GNDRX	-	-	Ground, for RXIN
39	XTI	I	No	Oscillation circuit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

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

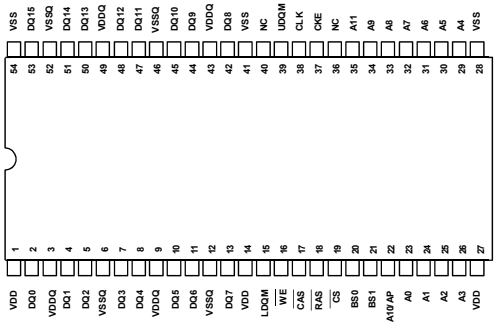
PCM9211 BLOCK DIAGRAM



CS49844A (HDMI : U1073)



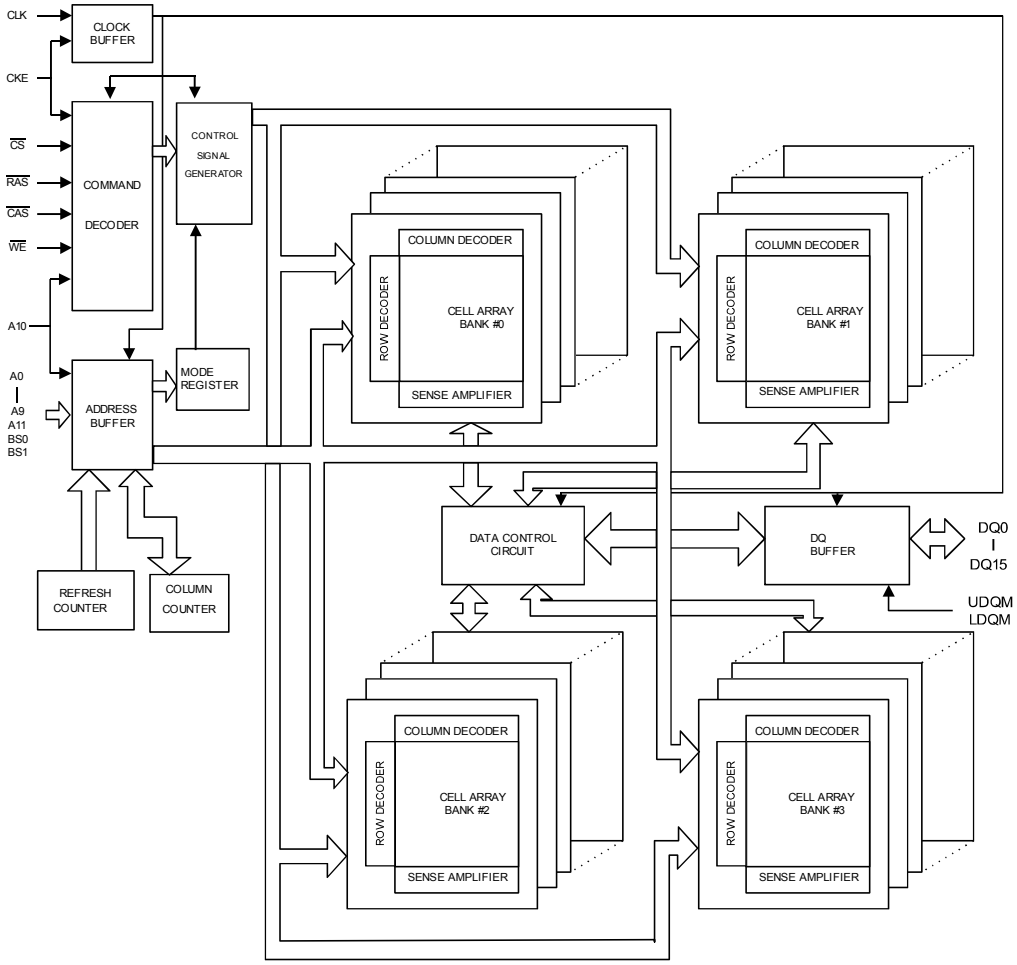
W9864G6KH-5 (HDMI : U1023)



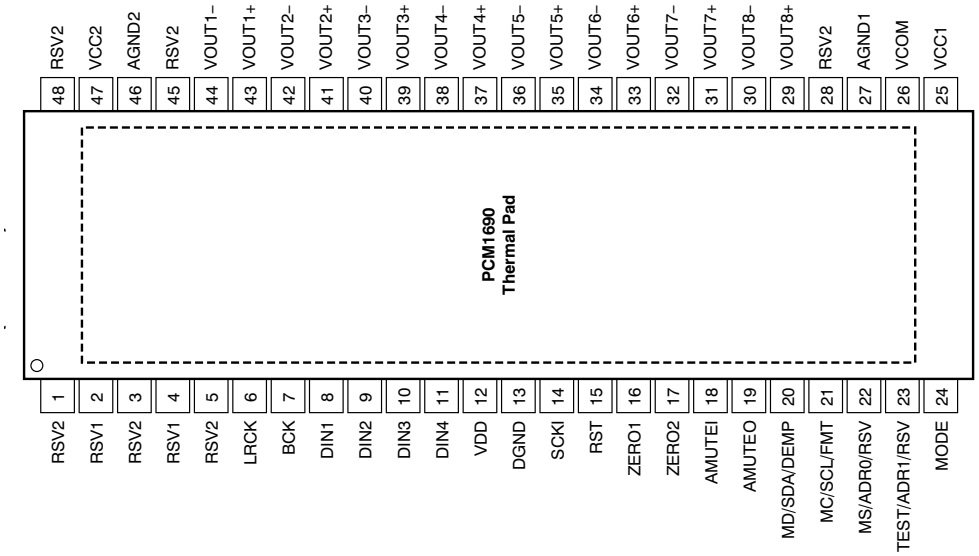
W9864G6KH-5 Pin description

PIN NUMBER	PIN NAME	FUNCTION	DESCRIPTION
23 ~ 26, 22, 29 ~35	A0–A11	Address	Multiplexed pins for row and column address. Row address: A0–A11. Column address: A0–A7. A10 is sampled during a precharge command to determine if all banks are to be precharged or bank selected by BS0, BS1.
20, 21	BS0, BS1	Bank Select	Select bank to activate during row address latch time, or bank to read/write during address latch time.
2, 4, 5, 7, 8, 10, 11, 13, 42, 44, 45, 47, 48, 50, 51, 53	DQ0–DQ15	Data Input/ Output	Multiplexed pins for data output and input.
19	$\overline{CS}$	Chip Select	Disable or enable the command decoder. When command decoder is disabled, new command is ignored and previous operation continues.
18	$\overline{RAS}$	Row Address Strobe	Command input. When sampled at the rising edge of the clock $\overline{RAS}$, $\overline{CAS}$ and $\overline{WE}$ define the operation to be executed.
17	$\overline{CAS}$	Column Address Strobe	Referred to $\overline{RAS}$
16	$\overline{WE}$	Write Enable	Referred to $\overline{RAS}$
39, 15	UDQM LDQM	Input/output mask	The output buffer is placed at Hi-Z (with latency of 2) when DQM is sampled high in read cycle. In write cycle, sampling DQM high will block the write operation with zero latency.
38	CLK	Clock Inputs	System clock used to sample inputs on the rising edge of clock.
37	CKE	Clock Enable	CKE controls the clock activation and deactivation. When CKE is low, Power Down mode, Suspend mode, or Self Refresh mode is entered.
1, 14, 27	V_{DD}	Power	Power for input buffers and logic circuit inside DRAM.
28, 41, 54	V_{SS}	Ground	Ground for input buffers and logic circuit inside DRAM.
3, 9, 43, 49	V_{DDQ}	Power for I/O buffer	Separated power from V_{DD}, to improve DQ noise immunity.
6, 12, 46, 52	V_{SSQ}	Ground for I/O buffer	Separated ground from V_{SS}, to improve DQ noise immunity.
36, 40	NC	No Connection	No connection.

W9864G6KH-5 Block diagram



PCM1690 (HDMI : U1048)



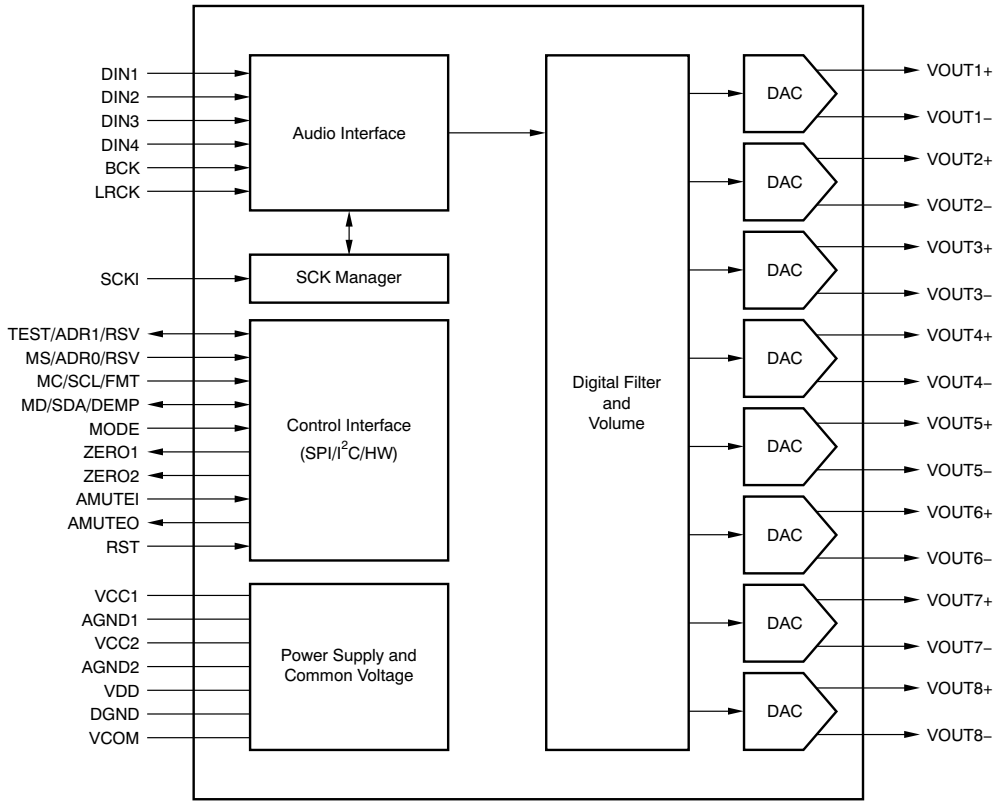
PCM1690 Pin Function

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

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

(1) Open-drain configuration in out mode.

PCM1690 FUNCTIONAL BLOCK DIAGRAM



PCM5100 (HDMI:U1052)

PCM510X (top view)

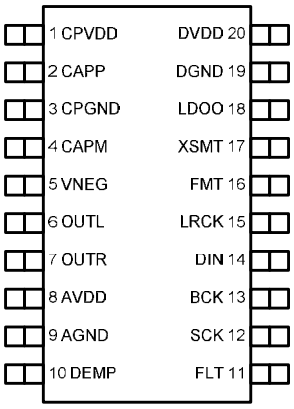


Table 2. TERMINAL FUNCTIONS, PCM510x

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

(1) Failsafe LVCMOS Schmitt trigger input

PCM5100 Block Diagram

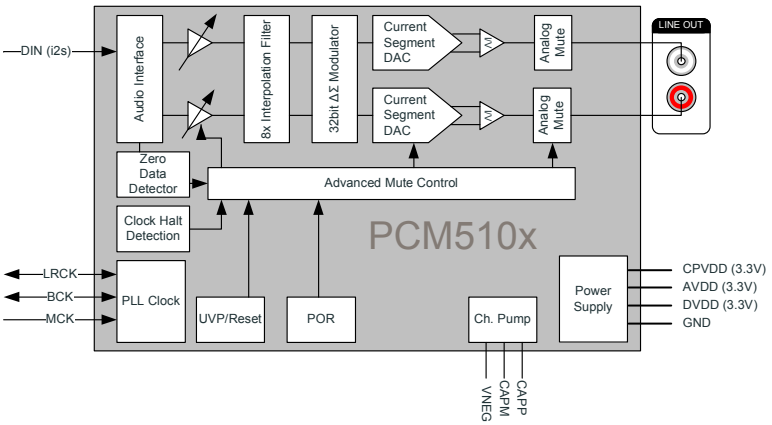
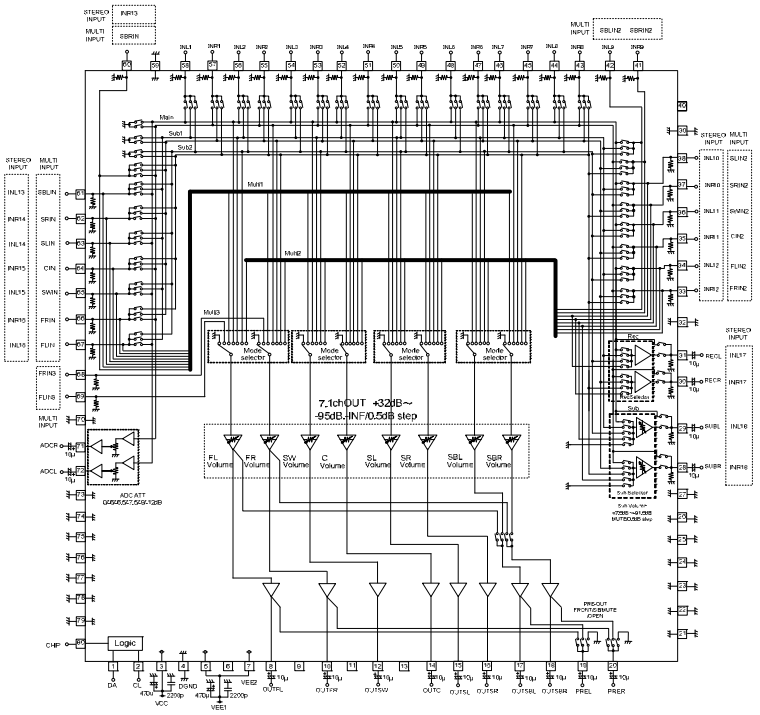


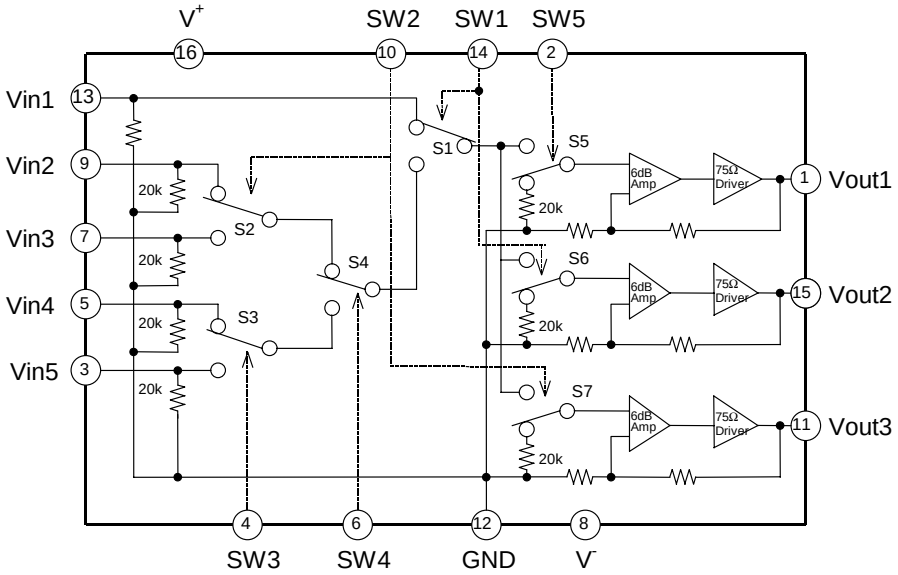
Figure 1. PCM510x Functional Block Diagram

BD34704KS2 (INPUT : IC4200)

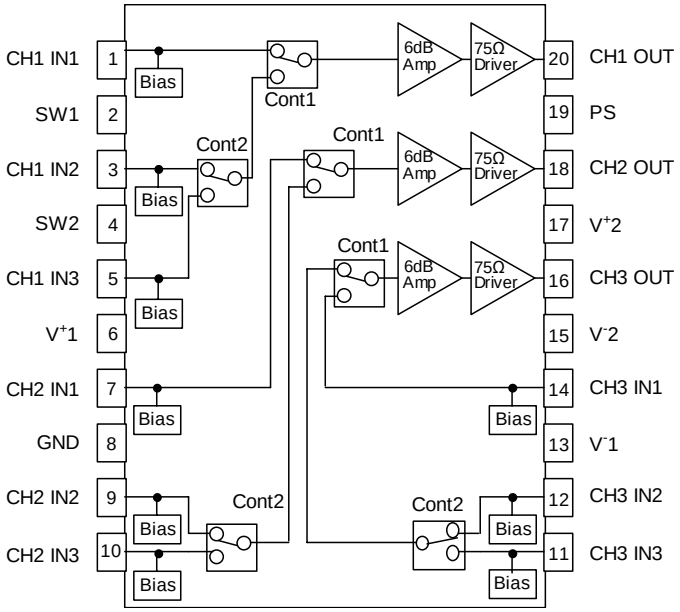


PIN No.	SYMBOL	PIN No.	SYMBOL	PIN No.	SYMBOL	PIN No.	SYMBOL
1	DA	21	GND	61	SBLIN	41	INR9(SBRIN2)
2	CL	22	GND	62	SRIN	42	INL9(SBLIN2)
3	VCC	23	GND	63	SLIN	43	INR8
4	DGND	24	GND	64	CIN	44	INL8
5	VEE1	25	GND	65	SWIN	45	INR7
6	N.C.	26	GND	66	FRIN	46	INL7
7	VEE2	27	GND	67	FLIN	47	INR6
8	OUTFL	28	SUBR	68	FRIN3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

NJM2595MTE1 (VIDEO:IC5001)



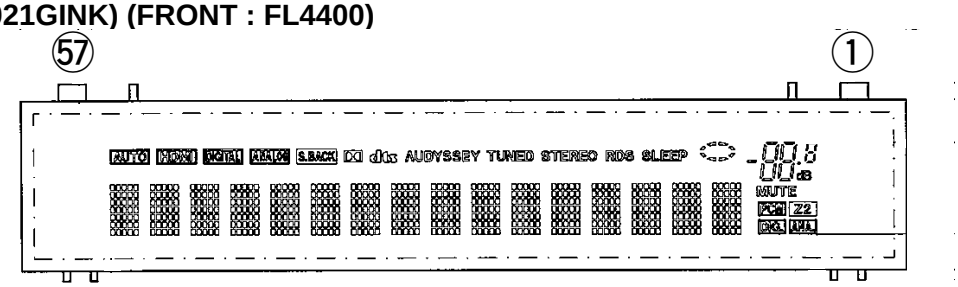
NJM2586AVC3(VIDEO:IC5002)



SSOP20-C3

2. FL DISPLAY

FLD (018BT021GINK) (FRONT : FL4400)



PIN CONNECTION

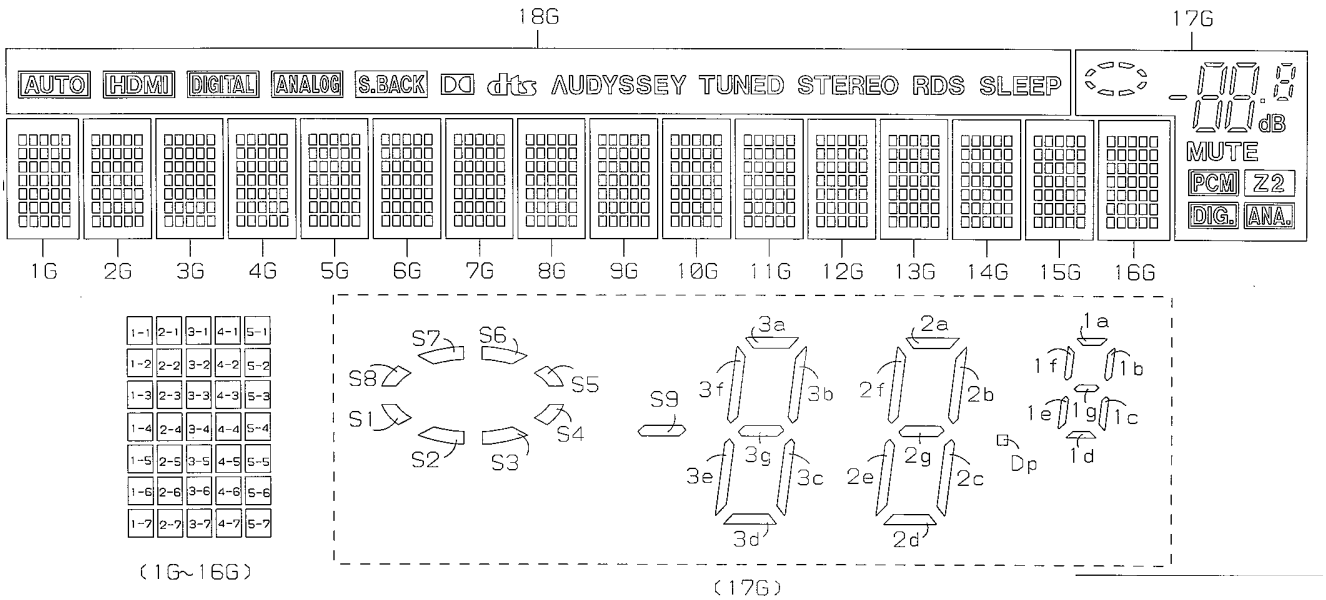
PIN CONNECTION

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

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

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

GRID ASSIGNMENT



ANODE CONNECTION

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

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							
	D4000-4004	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	5		
	D4007	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	1		
	D4008	963203500300D	DIODE BRIDGE D10SB60 600V/10A STRAIGHT TYPE		K047100600220S	1		
	D4013	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1		
	D4014	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	1		
	D4016	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	1		
	D4017	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	1		
	D4019	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	1		
	D4020	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	1		
	D4022	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	1		
	D4023	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1		
	D4025	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	1		
	D4026	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1		
	D4027-4030	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	4		
	D4031,4032	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	2		
	D4033-4035	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	3		
	D4037	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	1		
	D4039-4044	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	6		
	IC4000	00D2631100005	KIA7805API,20W-TO220IS MOLD		J126780500110S	1		
	IC4001	00D2631099006	KIA7905PI,20W-TO220IS MOLD		J126790500070S	1		
	IC4002	00D2631100050	KIA7808API,20W-TO220IS		J126780800050S	1		
	IC4003	00D2631100005	KIA7805API,20W-TO220IS MOLD		J126780500110S	1		
	IC4004	00D2631251006	KIA7908PI,20W-TO220IS		J126790800060S	1		
	IC4005	963232100450S	NJM4580CG SOP8		J1214580000050S	1	*	
	Q4005-4010	963214500310S	RT1N237C 0.2W/SC-59 ISAHAYA		J522102371210S	6		
	Q4200,4201	943214500030S	INC2001AC1 0.2W/SC-59 ISAHAYA	E3, E2, E1C, JP	J5220200112l0S	2		
	Q4214	943214500030S	INC2001AC1 0.2W/SC-59 ISAHAYA		J5220200112l0S	1		
	Q4218	943214500030S	INC2001AC1 0.2W/SC-59 ISAHAYA		J522020011210S	1		
	ZD4002	963202500330D	ZJ6.8B-0.5W/5MA-52MM SEMTECH		K06006R844522S	1		
	ZD4157,4158	963202500290D	ZJ3.6B-0.5W/5MA-52MM SEMTECH		K06003R644522S	2		
	RESISTOR GROUP							
	R4000,4001	963125010110S	470-J,2W-R.REEL		C060047166060S	2		
	R4002	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1		
	R4003	963125010100S	10-J 2W, R-REEL		C060010066050S	1		
	R4004	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1		
	R4005	963125010100S	10-J 2W, R-REEL		C060010066050S	1		
	R4006	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1		
	R4007	963125010100S	10-J 2W, R-REEL		C060010066050S	1		
	R4008	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1		
	R4009	963125010100S	10-J 2W, R-REEL		C060010066050S	1		
	R4010	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1		
	R4011	963125010100S	10-J 2W, R-REEL		C060010066050S	1		
	R4012	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1		
	R4013	963125010100S	10-J 2W, R-REEL		C060010066050S	1		
	R4014	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1		
	R4015	963125010100S	10-J 2W, R-REEL		C060010066050S	1		
	R4016	nsp	100-J,1/5W-52RE-AX		C00001016P520S	1		
	R4017-4020	nsp	20-J,1/5W-52RE-AX		C00002006P520S	4		
	R4025-4027	963125500070D	1.1K-J,1W-R.REEL		C060011265050S	3		
	R4029	nsp	10K-J,1/4W-R.REEL		C060103063050S	1		
	R4036-4038	nsp	470K-J,1/16W-1608REEL		C20004746M160S	3		
	R4039,4040	nsp	82K-J,1/16W-1608REEL		C20008236M160S	2		
	R4041	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4042	nsp	33-J,1/16W-1608REEL		C20003306M160S	1		
	R4043	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4044,4045	nsp	470K-J,1/16W-1608REEL		C20004746M160S	2		
	R4046	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1		
	R4047	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4048	nsp	33-J,1/16W-1608REEL		C20003306M160S	1		
	R4049	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4052	nsp	470K-J,1/16W-1608REEL		C20004746M160S	1		
	R4054,4055	nsp	0-J,1/10W-2012REEL		C200000060200S	2		
	R4056	nsp	470K-J,1/16W-1608REEL		C20004746M160S	1		
	R4057	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4058	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4059	nsp	22K-J,1/16W-1608REEL		C20002236M160S	1		
	R4060	nsp	330K-J,1/16W-1608REEL		C20003346M160S	1		
	R4061	nsp	22K-J,1/16W-1608REEL		C20002236M160S	1		
	R4062	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4063	nsp	3.3K-J,1/16W-1608REEL		C20003326M160S	1		
	R4064	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1		
	R4065	nsp	33K-J,1/16W-1608REEL		C20003336M160S	1		
	R4066,4067	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	R4069	963129501010S	0.01-J/5W W14*H18 9MM PITCH		C144R01069000S	1		
	R4070	nsp	20-J,1/5W-52RE-AX		C00002006P520S	1		
	R4200,4201	nsp	220-J,1/16W-1608REEL	E3, E2, E1C, JP	C20002216M160S	2		
	R4202,4203	nsp	100K-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001046M160S	2		
	R4204,4205	nsp	220-J,1/16W-1608REEL		C20002216M160S	2		
	R4212,4213	nsp	100K-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001046M160S	2		
	R4214-4217	nsp	100K-J,1/16W-1608REEL		C20001046M160S	6		
	R4222	nsp	470-J,1/16W-1608REEL	E3, E2, E1C, JP	C20004716M160S	1		
	R4223,4224	nsp	10K-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001036M160S	2		
	R4225	nsp	470-J,1/16W-1608REEL	E3, E2, E1C, JP	C20004716M160S	1		
	R4226	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4227,4228	nsp	470-J,1/16W-1608REEL		C20004716M160S	2		
	R4229	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4230,4231	nsp	470-J,1/16W-1608REEL		C20004716M160S	2		
	R4237	nsp	470K-J,1/16W-1608REEL		C20004746M160S	1		
	R4238,4239	nsp	470-J,1/16W-1608REEL	E3, E2, E1C, JP	C20004716M160S	2		
	R4242,4243	nsp	470K-J,1/16W-1608REEL	E3, E2, E1C, JP	C20004746M160S	2		
	R4245	nsp	470K-J,1/16W-1608REEL		C20004746M160S	1		
	R4712,4713	nsp	470-J,1/16W-1608REEL		C20004716M160S	2		
	R4715-4720	nsp	470-J,1/16W-1608REEL		C20004716M160S	6		
	CAPACIITORS GROUP							
	C4000	963133502350S	MI-0.047UF-J/100V-5RE HMM473J2AP050T DAEHUNG		D02047316C250S	1	*	
	C4002	963133502360S	ST-0.022UF-J/100V-5RE HPR223J2AP050T DAEHUNG		D02122306C250S	1	*	
	C4005	963133502360S	ST-0.022UF-J/100V-5RE HPR223J2AP050T DAEHUNG		D02122306C250S	1	*	
	C4006	963133502350S	MI-0.047UF-J/100V-5RE HMM473J2AP050T DAEHUNG		D02047316C250S	1	*	
	C4009	963133502360S	ST-0.022UF-J/100V-5RE HPR223J2AP050T DAEHUNG		D02122306C250S	1	*	
	C4011	963133502350S	MI-0.047UF-J/100V-5RE HMM473J2AP050T DAEHUNG		D02047316C250S	1	*	
	C4013	963133502360S	ST-0.022UF-J/100V-5RE HPR223J2AP050T DAEHUNG		D02122306C250S	1	*	
	C4015	963133502360S	ST-0.022UF-J/100V-5RE HPR223J2AP050T DAEHUNG		D02122306C250S	1	*	
	C4017	963133502350S	MI-0.047UF-J/100V-5RE HMM473J2AP050T DAEHUNG		D02047316C250S	1	*	
	C4019	963133502360S	ST-0.022UF-J/100V-5RE HPR223J2AP050T DAEHUNG		D02122306C250S	1	*	
	C4022	963133502360S	ST-0.022UF-J/100V-5RE HPR223J2AP050T DAEHUNG		D02122306C250S	1	*	

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C4023	963133502350S	MI-0.047UF-J/100V-5RE HMM473J2AP050T DAEHUNG		D02047316C250S	1	*	
	C4025	963133502350S	MI-0.047UF-J/100V-5RE HMM473J2AP050T DAEHUNG		D02047316C250S	1	*	
	C4027	nsp	X7R)1000PF-K/50V-1608REEL	E3, E1C, JP, S910	D011102777160S	1		
	C4027	nsp	X7R)0.1UF-K/50V-1608REEL	E2	D011104577160S	1		
	C4030	963133502350S	MI-0.047UF-J/100V-5RE HMM473J2AP050T DAEHUNG		D02047316C250S	1	*	
	C4032	nsp	X7R)1000PF-K/50V-1608REEL	E3, E1C, JP, S910	D011102777160S	1		
	C4032	nsp	X7R)0.1UF-K/50V-1608REEL	E2	D011104577160S			
	C4035	nsp	X7R)1000PF-K/50V-1608REEL	E3, E1C, JP, S910	D011102777160S	1		
	C4035	nsp	X7R)0.1UF-K/50V-1608REEL	E2	D011104577160S			
	C4038	nsp	X7R)1000PF-K/50V-1608REEL	E3, E1C, JP, S910	D011102777160S	1		
	C4038	nsp	X7R)0.1UF-K/50V-1608REEL	E2	D011104577160S			
	C4041	nsp	X7R)1000PF-K/50V-1608REEL	E3, E1C, JP, S910	D011102777160S	1		
	C4041	nsp	X7R)0.1UF-K/50V-1608REEL	E2	D011104577160S			
	C4044	nsp	X7R)1000PF-K/50V-1608REEL	E3, E1C, JP, S910	D011102777160S	1		
	C4044	nsp	X7R)0.1UF-K/50V-1608REEL	E2	D011104577160S			
	C4047	nsp	X7R)1000PF-K/50V-1608REEL	E3, E1C, JP, S910	D011102777160S	1		
	C4047	nsp	X7R)0.1UF-K/50V-1608REEL	E2	D011104577160S			
	C4049	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1		
	C4050,4051	963133502370S	ST-0.1UF-J/100V-5RE HPR104J2AP050T DAEHUNG		D02110406C250S	2	*	
	C4052	963133502010S	10000UF-M/69V,35*45 DL LKSF2103MESBZT NICHICON	E3, E1C, JP, S910	D04010308Z560S	1		
	C4052	963134010180S	12000UF-M/71V,35*60	E2	D040123089550S			
	C4053	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C4054	963133502010S	10000UF-M/69V,35*45 DL LKSF2103MESBZT NICHICON	E3, E1C, JP, S910	D04010308Z560S	1		
	C4054	963134010180S	12000UF-M/71V,35*60	E2	D040123089550S			
	C4057	963133502380S	MI-0.1UF-J/100V-5RE HMM104J2AP050T DAEHUNG		D02010416C250S	1	*	
	C4059	963134011290S	4700UF-M/16V,16*25-L.BLK SMS 5.0MC SY		D040472083020S	1		
	C4060,4061	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2		
	C4062	00D9630217002	3300UF-M/16V,12.5*25L.BLK SHL 5.0MC SY		D040332083010S	1		
	C4063	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C4064	963134502380S	470UF-M/50V,12.5*20L BULK 5.0MC SMS SY		D040471087010S	1		
	C4065	90M-OA000500R	4700UF-M/25V(MHA),16*25 P=7.5 L.BLK		D040472084240S	1		
	C4066	963134502390S	470UF-M/50V,10*20 BULK SHL SY		D040471087040S	1		
	C4067	90M-OA000500R	4700UF-M/25V(MHA),16*25 P=7.5 L.BLK		D040472084240S	1		
	C4068	963134502390S	470UF-M/50V,10*20 BULK SHL SY		D040471087040S	1		
	C4069	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4071	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C4074	nsp	COG)10PF-J/50V-1608REEL		D010100167161S	1		
	C4075	00D9630333203	100UF-M/16V,5*11-5RE,SHL SY		D040101083090S	1		
	C4080,4081	nsp	COG100PF-J/50V-1608REEL		D010101167160S	2		
	C4082	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4083	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C4085,4086	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	2		
	C4087-4089	00D9609010625	1UF-M/100V,5*11-5RE.SMS SY		D040010086060S	3		
	C4200,4201	nsp	COG330PF-J/50V-1608REEL	E3, E2, E1C, JP	D010331167160S	2		
	C4202,4203	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY	E3, E2, E1C, JP	D040220087060S	2		
	C4204	nsp	COG330PF-J/50V-1608REEL		D010331167160S	1		
	C4205,4206	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	2		
	C4207	nsp	X7R)0.01UF-K/50V-1608REEL	S910	D010103777160S	1		
	C4208	nsp	X7R)0.01UF-K/50V-1608REEL	E3, E2, E1C, JP	D010103777160S	1		
	C4209	nsp	COG330PF-J/50V-1608REEL		D010331167160S	1		
	C4210,4211	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY		D040220087060S	2		
	C4221,4222	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY	E3, E2, E1C, JP	D040220087060S	2		
	C4720-4727	nsp	COG330PF-J/50V-1608REEL		D010331167160S	8		
	OTHER PARTS GROUP							
	BD4000	nsp	CB03YTYN121-1608REEL		D340160891210S	1		
	BKT4143	nsp	AVRX2200WBKE3(DENON) SECC t1.0+Sn plating /PCB MT		4010214876000SV	1	*	
	CLP4002	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	1		
	CN4211	nsp	260MM/3P YMH025-03=CKM2509HV-03 RD1569#22 105C		L000261030130S	1	*	
	CN4212	nsp	120MM/10P 20010HS-10=CKM2002HV-10 WH1007#26		L002121102620S	1		
	CN4213	nsp	220MM/5P YMH025-05=CKM2509HV-05 RD1569#22 105C		L000221050080S	1	*	
	CN4704	nsp	1.25B-2-23Y 23P BtoB SOCKET(FEMALE) P=1.25MM		L109125422310S	1		
	CP4001	nsp	LWB1143-07P 7.92MM HEADER,VER,7CKT		L108011430710S	1		
	CP4002	nsp	1.25B-2-15A 15P BtoB HEADER(MALE) P=1.25MM		L109125321510S	1		
	CP4003	nsp	1.25B-2-19A 19P BtoB HEADER(MALE) P=1.25MM		L109125321910S	1	*	
	CP4006	nsp	1.25B-2-11A 11P BtoB HEADER(MALE) P=1.25MM		L109125321110S	1		
	CP4007	nsp	1.25B-2-9A 9P BtoB HEADER(MALE) P=1.25MM		L109125320910S	1		
	CP4700	nsp	1.25B-2-7A 7P BtoB HEADER(MALE) P=1.25MM	E3	L109125320710S	1		
	CP4702	nsp	1.25B-2-7A 7P BtoB HEADER(MALE) P=1.25MM	E3	L109125320710S	1		
!	F4000	963652010520S	T6.3A/250V-IVBSUCPCcUR S506		N751506301160S	1		
	F4000A	nsp	PI5.2-REEL		G645000050010S	1		
	F4000B	nsp	PI5.2-REEL		G645000050010S	1		
!	F4001	963652010520S	T6.3A/250V-IVBSUCPCcUR S506		N751506301160S	1		
	F4001A	nsp	PI5.2-REEL		G645000050010S	1		
	F4001B	nsp	PI5.2-REEL		G645000050010S	1		
	J4124	nsp	JUMPER (0.6/52MM)	E3	L045084006040S	1		
	JACK4000-4006	963646100520S	SJ2003S-A006-00A200B(RD,BK) BINDING		G6112003SA00JS	7		
	JK4200,4201	00D9630132103	RCA-405B-04(WH,WH,RD,RD)-YUQIU		G602405B0400YS	2		
	JK4202	963643102820S	RCA-405B0-02-25(WH,BK/RD,BK)	E3, E2, E1C, JP	G602405B0225YS	1		
	JK4203	963643102810S	RCA-207AE-06(BK,BK)	S910	G601207AE060YS	1		
	L4000-4006	nsp	SP-2507 1.0 PI*2UEW TURNS=7T SPRING COIL		D330900001330S	7		
	PACK4000	963183100620S	KST-MW004MV1-S78SA-1 4GANG+MW+50US NA	E3, S910	E903004102780S	1	*	
	PACK4000	963183100610S	KST-MW104MV1-S78GA-1 4GANG+MW+50US RDS	E2	E903104102780S	1	*	
	PACK4000	963183100630S	KST-MW004MV1-S78A-1 4GANG+MW+50US NA IFT_VENA	E1C, JP	E903004100781S	1	*	
	RLY4000	963682100560S	HFD27/012-S 24V 2A 2회로 2접점(SMALL SIGNAL)		G680240202080S	1	*	
	RLY4001-4004	963682100280D	JZC-42F/012-2HST 24.4*12.8*24.8mm		G680060103010S	4		
	RLY4005	963682100510S	HF115F/012-2ZS4B		G680060083010S	1		

FRONT PCB ASS'Y

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

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

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

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							
	D4401	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	1		
	D4403-4406	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	4		
	D4408	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1		
	D4410	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1		
	D4411,4412	963209003510S	CDS3C05HDMI1 CERADIODE ESD FOR HDMI 1608REEL		K067030500010S	2		
	D4413	963209500020S	CDS3C15GTA 1608REEL CERADIODE ESD B72500D0150A060		K067031500010S	1		
	IC4701	236810090504S	ILX3232D 3V3 RS232 INTERFACE TRANSCEIVER SOP16	E3	J0463232000020S	1		
	Q4400	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112l0S	1		
	Q4401	943215500030S	RT1P441C 0.2W/SC-59 ISAHAYA		J5201044112l0S	1		
	Q4402,4403	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J5223052000050S	2		
	Q4404	00D9630226705	KTC1027Y,1W/TO92L-REEL		J5021027Y0020S	1		
	Q4405	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112l0S	1		
	Q4406	963212500030S	ISA1530AC1 0.2W/SC-59 ISAHAYA		J5200153012l0S	1		
	Q4407	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112l0S	1		
	Q4408	963212500030S	ISA1530AC1 0.2W/SC-59 ISAHAYA		J5200153012l0S	1		
	ZD4400	963202500330D	ZJ6.8B-0.5W/5MA-52MM SEMTECH		K06006R844522S	1		
	ZD4401	963202500350D	ZJ22B-0.5W/5MA-52MM SEMTECH		K06022R044522S	1		
	ZD4402	963202500340D	ZJ15B-0.5W/5MA-52MM SEMTECH		K06015R044522S	1		
	ZD4403-4405	963202500310D	ZJ5.1B-0.5W/5MA-52MM SEMTECH		K06005R144522S	3		
	RESISTOR GROUP							
	CB4400,4401	nsp	0-J,1/16W-1608REEL		C20000006M160S	2		
	BD4401-4403	nsp	0-J,1/16W-1608REEL		C20000006M160S	3		
	BD4407	nsp	0-J,1/16W-1608REEL		C20000006M160S	1		
	BD4409,4410	nsp	0-J,1/16W-1608REEL		C20000006M160S	2		
	BD4411	nsp	CB05YTYH221-2012REEL		D340201292210S	1		
	R4402	nsp	0-J,1/16W-1608REEL		C20000006M160S	1		
	R4403,4404	nsp	100-J,1/16W-1608REEL		C20001016M160S	2		
	R4405	nsp	1-J,1/16W-1608REEL		C20000106M160S	1		
	R4408	nsp	1-J,1/16W-1608REEL		C20000106M160S	1		
	R4409	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1		
	R4410	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4411	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4412	nsp	47K-J,1/16W-1608REEL		C20004736M160S	1		
	R4413	nsp	0-J,1/16W-1608REEL	E3, E2, E1C, JP	C20000006M160S	1		
	R4413	nsp	100-J,1/16W-1608REEL	S910	C20001016M160S	1		
	R4414	nsp	10-J,1/5W-52RE-AX		C00001006P520S	1		
	R4415	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4416	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1		
	R4417	nsp	100-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001016M160S	1		
	R4417	nsp	150-J,1/16W-1608REEL	S910	C20001516M160S	1		
	R4418,4419	nsp	390-J,1/16W-1608REEL	E3	C20003916M160S	2		
	R4420	nsp	39K-J,1/5W-52RE-AX		C00003936P520S	1		
	R4421	nsp	47K-J,1/16W-1608REEL	E3	C20004736M160S	1		
	R4422	nsp	100-J,1/5W-52RE-AX		C00001016P520S	1		
	R4423	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1		
	R4424	nsp	0-J,1/16W-1608REEL	E3, E2, E1C, JP	C20000006M160S	1		
	R4424	nsp	100-J,1/16W-1608REEL	S910	C20001016M160S	1		
	R4425	nsp	39K-J,1/16W-1608REEL		C20003936M160S	1		
	R4427	nsp	0-J,1/16W-1608REEL	E3, E2, E1C, JP	C20000006M160S	1		
	R4427	nsp	150-J,1/16W-1608REEL	S910	C20001516M160S	1		
	R4428	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4430	nsp	100-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001016M160S	1		
	R4430	nsp	180-J,1/16W-1608REEL	S910	C20001816M160S	1		
	R4433	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4434	nsp	0-J,1/16W-1608REEL	E3, E2, E1C, JP	C20000006M160S	1		
	R4434	nsp	100-J,1/16W-1608REEL	S910	C20001016M160S	1		
	R4435	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	1		
	R4436	nsp	68K-J,1/16W-1608REEL		C20006836M160S	1		
	R4437	nsp	91K-J,1/16W-1608REEL		C20009136M160S	1		
	R4438,4439	nsp	10-J,1/16W-1608REEL		C20001006M160S	2		
	R4440	nsp	0-J,1/16W-1608REEL	E2, E1C, JP, S910	C20000006M160S	1		
	R4441	nsp	0-J,1/16W-1608REEL	E3	C20000006M160S	1		
	R4442-4444	nsp	100-J,1/5W-52RE-AX		C00001016P520S	3		
	R4445	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4446	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	1		
	R4447	nsp	100-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001016M160S	1		
	R4447	nsp	150-J,1/16W-1608REEL	S910	C20001516M160S	1		
	R4448	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1		
	R4450	nsp	47K-J,1/16W-1608REEL		C20004736M160S	1		
	R4451	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1		
	R4452	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4453	nsp	18K-J,1/16W-1608REEL		C20001836M160S	1		
	R4454	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R4455	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4456	nsp	3.3K-J,1/16W-1608REEL		C20003326M160S	1		
	R4457-4459	nsp	100-J,1/5W-52RE-AX		C00001016P520S	3		
	R4460	nsp	2.2K-J,1/16W-1608REEL		C20002226M160S	1		
	R4461	nsp	100-J,1/5W-52RE-AX		C00001016P520S	1		
	R4462,4463	nsp	1.2K-J,1/16W-1608REEL	E3	C20001226M160S	2		
	R4462,4463	nsp	560-J,1/16W-1608REEL	E2, E1C, JP, S910	C20005616M160S	2		
	R4464	nsp	4.7K-J,1/5W-52RE-AX		C00004726P520S	1		
	R4466	nsp	2.2K-J,1/16W-1608REEL		C20002226M160S	1		
	R4467	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4469	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1		
	R4471,4472	nsp	4.7K-J,1/5W-52RE-AX		C00004726P520S	2		
	R4473	nsp	100K-J,1/16W-1608REEL		C20001046M160S	1		
	R4474	nsp	150-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001516M160S	1		
	R4474	nsp	180-J,1/16W-1608REEL	S910	C20001816M160S	1		
	R4478	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4479	nsp	4.7K-J,1/5W-52RE-AX		C00004726P520S	1		
	R4481	nsp	220-J,1/16W-1608REEL	S910	C20002216M160S	1		
	R4483	nsp	330-J,1/16W-1608REEL	S910	C20003316M160S	1		
	R4484	nsp	150-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001516M160S	1		
	R4484	nsp	220-J,1/16W-1608REEL	S910	C20002216M160S	1		
	R4485	nsp	330-J,1/16W-1608REEL	S910	C20003316M160S	1		
	R4486	nsp	2.2K-J,1/16W-1608REEL		C20002226M160S	1		
	R4489,4490	nsp	100-J,1/5W-52RE-AX		C00001016P520S	2		
	R4492	nsp	560-J,1/16W-1608REEL	S910	C20005616M160S	1		
	R4493	nsp	150-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001516M160S	1		
	R4493	nsp	180-J,1/16W-1608REEL	S910	C20001816M160S	1		
	R4494	nsp	180-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001816M160S	1		
	R4494	nsp	220-J,1/16W-1608REEL	S910	C20002216M160S	1		
	R4495	nsp	330-J,1/16W-1608REEL	S910	C20003316M160S	1		
	R4708,4709	nsp	1K-J,1/16W-1608REEL	E3	C20001026M160S	2		
	R4710	nsp	0-J,1/16W-1608REEL	E3	C20000006M160S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R4711	nsp	1K-J,1/16W-1608REEL	E3	C20001026M160S	1		
	R4714	nsp	1K-J,1/16W-1608REEL	E3	C20001026M160S	1		
	R4721	nsp	0-J,1/16W-1608REEL	E3	C20000006M160S	1		
	CAPACIITORS GROUP							
	C4408	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4409	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C4411	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4412	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C4413	nsp	X7R)0.047UF-K/25V-1608REEL		D011473774161S	1		
	C4414	nsp	X7R0.01UF-K/50V-1608REEL		D011103777160S	1		
	C4417	963134502370S	47UF-M/16V,5*11-5RE.SMS SY		D040470083080S	1		
	C4418	nsp	X7R)0.047UF-K/25V-1608REEL		D011473774161S	1		
	C4421	963133502390S	220UF-M/63V,10*16-5RE SHL SY		D040221088050S	1	*	
	C4422,4423	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	2		
	C4424	nsp	X7R)0.047UF-K/25V-1608REEL		D011473774161S	1		
	C4425	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C4426	nsp	Y5V1UF-Z/50V-1608REEL		D011105597160S	1		
	C4427,4428	nsp	COG100PF-J/50V-1608REEL		D010101167160S	2		
	C4429,4430	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	2		
	C4433,4434	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	2		
	C4436	nsp	X7R)0.047UF-K/25V-1608REEL		D011473774161S	1		
	C4437	nsp	COG82PF-J/50V-1608REEL		D010820167160S	1		
	C4438	00D9630293709	100UF-M/10V,5*11-5RE.SMS SY		D040101082070S	1		
	C4439	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C4440	nsp	X7R)0.047UF-K/25V-1608REEL		D011473774161S	1		
	C4441,4442	nsp	COG470PF-J/50V-1608REEL		D010471167160S	2		
	C4443	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4444	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C4445	nsp	COG470PF-J/50V-1608REEL		D010471167160S	1		
	C4447	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	1		
	C4448	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4450	nsp	COG470PF-J/50V-1608REEL		D010471167160S	1		
	C4453	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C4455,4456	nsp	X7R)1000PF-K/50V-1608REEL		D011102777160S	2		
	C4459,4460	963133502520S	ST-0.01UF-J/100V-5RE HPE103J2AP050T DAEHUNG		D02010306C250S	2	*	
	C4462	963133502530S	ST-0.1UF-J/100V-5RE HPE104J2AP050T DAEHUNG		D02010406C250S	1	*	
	C4463	963133502540S	ST-0.047UF-J/100V-5RE HPE473J2AP050T DAEHUNG		D02047306C250S	1	*	
	C4470	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4471	nsp	220UF-M/6.3V,8*5-5RE SRE SY		D040221081070S	1		
	C4472	nsp	C0G)1000PF-J/50V-1608REEL		D010102167160S	1		
	C4475-4478	nsp	X7R0.01UF-K/50V-1608REEL		D011103777160S	4		
	C4479	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4706	nsp	X7R)0.1UF-K/50V-1608REEL	E3	D011104577160S	1		
	C4707	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY	E3	D040100087070S	1		
	C4711,4712	nsp	X7R)0.1UF-K/50V-1608REEL	E3	D011104577160S	2		
	C4716,4717	nsp	X7R)0.1UF-K/50V-1608REEL	E3	D011104577160S	2		
	C4718,4719	nsp	COG)33PF-J/50V-1608REEL	E3	D010330167160S	2		
	OTHER PARTS GROUP							
	BKT4400	nsp	AVRX2200WBKE3(DENON) BURRING HOLE SPCC t0.8+SN A4/		4010210196100SV	1	*	
	CLAMP403	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	1		
	CLAMP406	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	1		
	CN4400	nsp	1.0-11S-40PW 40P AN DIP TOP CONTACT		L130100114050S	1		
	CN4402	nsp	440MM/6P 20010HS-06=CKM2002HV-06 RD2725#24,28 SH		L002441060010S	1	*	
	CN4702	nsp	1.25B-2-7Y 7P BtoB SOCKET(FEMALE) P=1.25MM	E3	L109125420710S	1		
	CP4400	nsp	YMAW025-07R DIP RA		L102025070010S	1		
	CP4401	nsp	TUC-P07X-B1 BD-TO-BD 7P HOUSING ST (35237-07)		L101100030710S	1		
	CP4402,4403	nsp	TUC-P07P-B1 BD-TO-BD 7P WAFER ST (35336-07)		L101100040710S	2		
	CP4405	nsp	TUC-P07X-B1 BD-TO-BD 7P HOUSING ST (35237-07)		L101100030710S	1		
	CP4406	963643101610D	USB A F 180 DIP L=15.0		G480040000180S	1		
!	F4401	963652500020S	6125FF500-R 500mA FAST-ACTING SUBMINIATURE FUSE		G657612505030S	1		
	FL_BKT1,2	nsp	AVR2313CIBKE3(DENON) FLT		4018214916000	2		
	FL4400	943172100150S	018BT021GINK 129*25*6.1 GREEN /AVR1913		K530180210010S	1		
	G4400	nsp	160MM/1P 609A-BS-2=CKM9919T BK1617#22		8410161010190S	1		
	IC4400	963232100450S	NJM4580CG SOP8		J1214580000050S	1	*	
	J4123	nsp	JUMPER (0.6/52MM)	E3	L045084006040S	1		
	J4458	nsp	0-J,1/8W-3216REEL		C200000061300S	1		
	J4474	nsp	0-J,1/8W-3216REEL		C200000061300S	1		
	J5050-5053	nsp	JUMPER (0.6/52MM)	E3	L045084006040S	4		
	JACK4400	00D9630367802	EARPHONE JACK(PJ-354H-4)(MIC) BLACK		G401PJ354H40YS	1		
	JACK4401	963643101600D	PHONE (YUQIU) D6.5 9P NI PJ-621HA		G402PJ621HA0YS	1		
	JACK4702	00D2051305008	9P FEMALE D-SUB DS03-09 ADD SCREW(4.8*11.8)BLACK	E3	L103090090030S	1		
	JP4401,4402	nsp	0-J,1/8W-3216REEL		C200000061300S	2		
	LED4400	963262100300D	BIR-BM1341T 3PI INFRARED LED	E3	K505134101040S	1		
	LED4402	963263100960S	PVBWR-5A2M-CREDISEA 5PI WHITE/RED	E3	K500059209010S	1		
	LED4402	00D9630366108	BL-BJEGJ204-L 5PI RED/GREEN 5MM-REEL	E2, E1C, JP, S910	K500052004010S	1		
	RMC4400	963262010290S	R34FS9A 38KHZ IR REMOCON MODULE P=2.54MM H=15MM		E940349003810S	1		
	SW4400	00D9630095305	SKHV10910D01 KB581/LG 160G	S910	G180040500010S	1	*	
	SW4401,4402	00D9630095305	SKHV10910D01 KB581/LG 160G		G180040500010S	2		
	SW4403,4404	00D9630095305	SKHV10910D01 KB581/LG 160G	S910	G180040500010S	2	*	
	SW4405,4406	00D9630095305	SKHV10910D01 KB581/LG 160G		G180040500010S	2		
	SW4407	00D9630095305	SKHV10910D01 KB581/LG 160G	S910	G180040500010S	1	*	
	SW4408,4409	00D9630095305	SKHV10910D01 KB581/LG 160G		G180040500010S	2		
	SW4410	00D9630387408	EC16B24SO-ZZZ L=25MM CLICK=24 TORQUE=100-300		G121162400070S	1		
	SW4411	00D9630095305	SKHV10910D01 KB581/LG 160G		G180040500010S	1		
	SW4412	963667100170D	EC16B12SAAD4ZZZ		G121161200070S	1		
	SW4413	00D9630095305	SKHV10910D01 KB581/LG 160G		G180040500010S	1		
	SW4414,4415	00D9630095305	SKHV10910D01 KB581/LG 160G	S910	G180040500010S	2	*	
	SW4416	00D9630095305	SKHV10910D01 KB581/LG 160G		G180040500010S	1		
	SW4417,4418	00D9630095305	SKHV10910D01 KB581/LG 160G	S910	G180040500010S	2	*	
	SW4419,4420	00D9630095305	SKHV10910D01 KB581/LG 160G		G180040500010S	2		
	SW4421	00D9630095305	SKHV10910D01 KB581/LG 160G	S910	G180040500010S	1	*	
	★	nsp	SR5005U1BSPTH 0.5T/FIP		4010214916000S	2		

VIDEO PCB ASS'Y

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

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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

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	IC5001	963235100700S	NJM2595M-TE1 DMP16 5-INPUT 3-OUTPUT VIDEO SWITCH		J1712595000010S	1		
	IC5002	963235100630S	NJM2586AVC3 VIDEO SWITCH SSOP20-C3		J171258600020S	1		
	Q4219	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112l0S	1		
	RESISTOR GROUP							
	R5007,5008	nsp	75-J,1/16W-1608REEL		C20007506M160S	2		
	R5009,5010	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	R5011	nsp	75-J,1/16W-1608REEL		C20007506M160S	1		
	R5014	nsp	75-J,1/16W-1608REEL		C20007506M160S	1		
	R5015	nsp	150-J,1/16W-1608REEL	E3, S910	C20001516M160S	1		
	R5016	nsp	150-J,1/16W-1608REEL		C20001516M160S	1		
	R5017	nsp	160-J,1/16W-1608REEL	E3, S910	C20001616M160S	1		
	R5018	nsp	160-J,1/16W-1608REEL		C20001616M160S	1		
	R5019	nsp	150-J,1/16W-1608REEL	E3, S910	C20001516M160S	1		
	R5020	nsp	150-J,1/16W-1608REEL		C20001516M160S	1		
	R5021	nsp	160-J,1/16W-1608REEL	E3, S910	C20001616M160S	1		
	R5022	nsp	160-J,1/16W-1608REEL		C20001616M160S	1		
	R5023	nsp	150-J,1/16W-1608REEL	E3, S910	C20001516M160S	1		
	R5024	nsp	150-J,1/16W-1608REEL		C20001516M160S	1		
	R5025	nsp	160-J,1/16W-1608REEL	E3, S910	C20001616M160S	1		
	R5026	nsp	160-J,1/16W-1608REEL		C20001616M160S	1		
	R5033-5035	nsp	75-J,1/16W-1608REEL		C20007506M160S	3		
	R5036	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R5037-5039	nsp	75-J,1/16W-1608REEL	E3, S910	C20007506M160S	3		
	R5069-5071	nsp	10K-J,1/16W-1608REEL	E2, E1C, JP	C20001036M160S	3		
	CAPACIITORS GROUP							
	C5008-5010	nsp	COG68PF-J/50V-1608REEL	E3, S910	D010680167160S	3		
	C5011	00D9630293709	100UF-M/10V,5*11-5RE.SMS SY		D040101082070S	1		
	C5012	nsp	COG68PF-J/50V-1608REEL		D010680167160S	1		
	C5013,5014	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	2		
	C5015,5016	nsp	COG68PF-J/50V-1608REEL		D010680167160S	2		
	C5017,5018	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	2		
	C5019,5020	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	2		
	C5021	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040010087150S	1		
	C5022	00D9630293709	100UF-M/10V,5*11-5RE.SMS SY		D040101082070S	1		
	C5023-5025	00D9630293602	1UF-M/50V,5*11-5RE.SMS SY (Pb Free)	E3, S910	D040010087150S	3		
	C5026,5027	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2		
	C5029	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1		
	C5030	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C5031	00D2544574922	100UF-M/50V,8*11.5-5RE.SMS SY		D040101087060S	1		
	C5032	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C5048	963133502380S	MI-0.1UF-J/100V-5RE HMM104J2AP050T DAEHUNG		D02010416C250S	1	*	
	C5051	963133502380S	MI-0.1UF-J/100V-5RE HMM104J2AP050T DAEHUNG		D02010416C250S	1	*	
	OTHER PARTS GROUP							
	BKT5001,5002	nsp	AVRX2200WBKE3(DENON) BURRING HOLE SPCC t0.8+SN A4/		4010210196100SV	2	*	
	BKT5003	nsp	AVRX2200WBKE3(DENON) BURRING HOLE SPCC t0.8+SN A4/	E2, E1C, JP	4010210196100SV	1	*	
	CLAMP300	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	1		
	CN4002	nsp	1.25B-2-15Y 15P BtoB SOCKET(FEMALE) P=1.25MM		L1091254215l0S	1		
	CN4003	nsp	1.25B-2-19Y 19P BtoB SOCKET(FEMALE) P=1.25MM		L1091254219l0S	1	*	
	CN5000	nsp	1.25B-2-21Y 21P BtoB SOCKET(FEMALE) P=1.25MM		L1091254221l0S	1		
	CN5003	nsp	1.25B-2-11Y 11P BtoB SOCKET(FEMALE) P=1.25MM		L1091254211l0S	1		
	CP3401	nsp	1.25B-2-25A 25P BtoB HEADER(MALE) P=1.25MM		L109125322510S	1	*	
	CP5000	nsp	1.25B-2-21A 21P BtoB HEADER(MALE) P=1.25MM		L1091253221l0S	1		
	CP5003	nsp	YMAW025-08R DIP RA		L1020250800l0S	1		
!	F5006	963652010500S	T1.6A/250V-IVBSUCPCcUR S506		N751501601160S	1		
	F5006A	nsp	PI5.2-REEL		G6450000500l0S	1		
	F5006B	nsp	PI5.2-REEL		G6450000500l0S	1		
!	F5007	963652010500S	T1.6A/250V-IVBSUCPCcUR S506		N751501601160S	1		
	F5007A	nsp	PI5.2-REEL		G6450000500l0S	1		
	F5007B	nsp	PI5.2-REEL		G6450000500l0S	1		
!	F5008	963652010500S	T1.6A/250V-IVBSUCPCcUR S506		N751501601160S	1		
	F5008A	nsp	PI5.2-REEL		G6450000500l0S	1		
	F5008B	nsp	PI5.2-REEL		G6450000500l0S	1		
!	F5009	963652010500S	T1.6A/250V-IVBSUCPCcUR S506		N751501601160S	1		
	F5009A	nsp	PI5.2-REEL		G6450000500l0S	1		
	F5009B	nsp	PI5.2-REEL		G6450000500l0S	1		
	JACK5000	00D9630257004	RCA-206B-01(YL,YL)		G601206B0100YS	1		
	JACK5001	963643101630D	RCA-303B1-08(GN,BL,RD)	E3, S910	G606303B1080YS	3		
	JACK5002	963643101630D	RCA-303B1-08(GN,BL,RD)		G606303B1080YS	3		
	JACK5003	963643101630D	RCA-303B1-08(GN,BL,RD)	E3, S910	G606303B1080YS	3		

INPUT PCB ASS'Y

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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
	SEMICONDUCTORS GROUP							
	D4210-4212	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	3		
	D4213,4214	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	2		
	IC4200	963235100750S	BD34704KS2 SQFP-T80C 7.1CH SOUND PROCESSOR		J084347040010S	1	*	
	IC5201	963232100450S	NJM4580CG SOP8	E3, E2, E1C, JP	J1214580000050S	1	*	
	Q4204	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J5201014112l0S	1		
	Q4205	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112l0S	1		
	Q4206,4207	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J5201014112l0S	2		
	Q4208	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112l0S	1		
	Q4209	943215500020S	RT1P141C 0.2W/SC-59 ISAHAYA		J5201014112l0S	1		
	U1047	963232100390S	NJM8080G SOP8 DUAL OP AMP		J1218080000l0S	1		
	U1049	963232100390S	NJM8080G SOP8 DUAL OP AMP		J1218080000l0S	1		
	U1051	963232100390S	NJM8080G SOP8 DUAL OP AMP		J1218080000l0S	1		
	U1053	963232100390S	NJM8080G SOP8 DUAL OP AMP		J1218080000l0S	1		
	ZD4200	963202500290D	ZJ3.6B-0.5W/5MA-52MM SEMTECH		K06003R644522S	1		
	RESISTOR GROUP							
	R1999	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2000	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2001	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2002	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2003	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2005,2006	nsp	11K-J,1/16W-1608REEL		C20001136M160S	2		
	R2009	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R2010	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2011	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2012	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2013	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2014	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2015	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R2017	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2018	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2019	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2021	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2022	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2024,2025	nsp	11K-J,1/16W-1608REEL		C20001136M160S	2		
	R2030	nsp	150K-J,1/16W-1608REEL		C20001546M160S	1		
	R2031	nsp	30K-J,1/16W-1608REEL		C20003036M160S	1		
	R2034	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2035	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2036	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2038	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2039	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2040	nsp	30K-J,1/16W-1608REEL		C20003036M160S	1		
	R2041	nsp	150K-J,1/16W-1608REEL		C20001546M160S	1		
	R2044	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2045	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2046	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2047	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2048	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2051,2052	nsp	11K-J,1/16W-1608REEL		C20001136M160S	2		
	R2056	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R2058	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2059	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2060	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2062	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2063	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2064	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R2069	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2070	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2071	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2072	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2073	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2076,2077	nsp	11K-J,1/16W-1608REEL		C20001136M160S	2		
	R2081	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R2082	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2083	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2084	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2085	nsp	15K-J,1/16W-1608REEL		C20001536M160S	1		
	R2086	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R2087	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R4216,4217	nsp	91K-J,1/16W-1608REEL		C20009136M160S	2		
	R4218-4221	nsp	91K-J,1/16W-1608REEL		C20009136M160S	4		
	R4240	nsp	470K-J,1/16W-1608REEL		C20004746M160S	1		
	R4241	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1		
	R4244,4245	nsp	470K-J,1/16W-1608REEL		C20004746M160S	2		
	R4248	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R4255-4258	nsp	100-J,1/16W-1608REEL		C20001016M160S	4		
	R4259-4262	nsp	100K-J,1/16W-1608REEL		C20001046M160S	4		
	R4263-4270	nsp	10K-J,1/16W-1608REEL		C20001036M160S	8		
	R4271-4273	nsp	100-J,1/16W-1608REEL		C20001016M160S	3		
	R4274-4276	nsp	10K-J,1/16W-1608REEL		C20001036M160S	3		
	R4291	nsp	820-J,1/16W-1608REEL		C20008216M160S	1		
	R4295	nsp	0-J,1/16W-1608REEL		C20000006M160S	1		
	R4296	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4297	nsp	1K-J,1/16W-1608REEL		C20001026M160S	1		
	R4300	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4302	nsp	470K-J,1/16W-1608REEL		C20004746M160S	1		
	R4305-4312	nsp	100K-J,1/16W-1608REEL		C20001046M160S	8		
	R4551,4552	nsp	91K-J,1/16W-1608REEL		C20009136M160S	2		
	R5300	nsp	47-J,1/16W-1608REEL	E3, E2, E1C, JP	C20004706M160S	1		
	R5304	nsp	47K-J,1/16W-1608REEL	E3, E2, E1C, JP	C20004736M160S	1		
	R5310	nsp	47K-J,1/16W-1608REEL	E3, E2, E1C, JP	C20004736M160S	1		
	R5311	nsp	47-J,1/16W-1608REEL	E3, E2, E1C, JP	C20004706M160S	1		
	R5312	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	1		
	R5313,5314	nsp	33-J,1/16W-1608REEL		C20003306M160S	2		
	R5340,5341	nsp	100-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001016M160S	2		
	R5342	nsp	10K-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001036M160S	1		
	R5343	nsp	12K-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001236M160S	1		
	R5344	nsp	10K-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001036M160S	1		
	R5345-5347	nsp	12K-J,1/16W-1608REEL	E3, E2, E1C, JP	C20001236M160S	3		
	CAPACIITORS GROUP							
	C2137	00D2570505910	CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D0101521671l65S	1		
	C2139,2140	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D0103311671l65S	2		
	C2141	00D9630333203	100UF-M/16V,5*11-5RE,SHL SY		D040101083090S	1		
	C2142	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D0103311671l65S	1		
	C2145	00D9630333203	100UF-M/16V,5*11-5RE,SHL SY		D040101083090S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C2146	00D2570505910	CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1		
	C2148	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	1		
	C2151	00D2570505910	CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1		
	C2152,2153	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	2		
	C2155	00D2570507947	CH)240PF-J/50V-1608REEL GRM1882C1H241JA01D		D010241167165S	1		
	C2157	00D2570505910	CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1		
	C2158	00D2570507947	CH)240PF-J/50V-1608REEL GRM1882C1H241JA01D		D010241167165S	1		
	C2162	00D2570505910	CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1		
	C2166,2167	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	2		
	C2170	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	1		
	C2171	00D2570505910	CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1		
	C2173	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	1		
	C2180	00D2570505910	CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1		
	C2182-2184	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	3		
	C2185	00D2570505910	CH)1500PF-J/50V-1608REEL GRM1882C1H152JA01D		D010152167165S	1		
	C2186	00D2570507976	CH)330PF-J/50V-1608REEL GRM1882C1H331JA01D		D010331167165S	1		
	C4220	00D9630244606	0.1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040R10087080S	1		
	C4225,4226	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2		
	C4237-4239	963134503020S	47UF-M/50V,6.3*11 KR3-050V470ME110-T/A5.0S KOSHIN		D040470087550S	3		
	C4240-4244	13405013240AS	47UF-M/25V,5*11 KR3-025V470MC110-T/A5.0S KOSHIN		D040470084550S	5		
	C4245,4246	963133502020S	470UF-M/16V,8*11.5 KR3-016V471MF115-T/A5.0S KOSHIN		D040471083550S	2		
	C4247,4248	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	2		
	C4249	00D9630244606	0.1UF-M/50V,5*11-5RE.SMS SY (Pb Free)		D040R10087080S	1		
	C4251	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY		D040100087070S	1		
	C5251	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY	E3, E2, E1C, JP	D040100087070S	1		
	C5255	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY	E3, E2, E1C, JP	D040100087070S	1		
	C5257	00D9630223902	COG39PF-J/50V-1608REEL	E3, E2, E1C, JP	D010390167160S	1		
	C5258	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY	E3, E2, E1C, JP	D040220087060S	1		
	C5262	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY	E3, E2, E1C, JP	D040100087070S	1		
	C5266	00D2544573981	10UF-M/50V,5*11-5RE.SMS SY	E3, E2, E1C, JP	D040100087070S	1		
	C5267	00D9630224503	22UF-M/50V,5*11-5RE.SMS SY	E3, E2, E1C, JP	D040220087060S	1		
	C5275	00D9630223902	COG39PF-J/50V-1608REEL	E3, E2, E1C, JP	D010390167160S	1		
	OTHER PARTS GROUP							
	BKT5000	nsp	AVRX2200WBKE3(DENON) BURRING HOLE SPCC t0.8+SN A4/		40102101961005V	1	*	
	CLAMP701-703	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	3		
	CN4006	nsp	1.25B-2-11Y 11P BtoB SOCKET(FEMALE) P=1.25MM		L1091254211105	1		
	CN401	nsp	200MM/13P 20010HS-13=CKM2002HV-13 WH1007#26		L0022011300105	1		
	CN4701	nsp	1.25B-2-7Y 7P BtoB SOCKET(FEMALE) P=1.25MM	E3	L1091254207105	1		
	CN4703	nsp	1.25B-2-9Y 9P BtoB SOCKET(FEMALE) P=1.25MM		L1091254209105	1		
	N4700	nsp	1.0-11S-4PW 4P AN DIP TOP CONTACT	E2, E1C, JP, S910	L1301001104505	1		
	CP4200	nsp	1.25B-2-15A 15P BtoB HEADER(MALE) P=1.25MM		L1091253215105	1		
	CP4201	nsp	1.25B-2-23A 23P BtoB HEADER(MALE) P=1.25MM		L1091253223105	1		
	CP4204	nsp	1.25B-2-11A 11P BtoB HEADER(MALE) P=1.25MM		L1091253211105	1		
	CP4205	nsp	1.25B-2-27A 27P BtoB HEADER(MALE) P=1.25MM		L1091253227105	1	*	
	CP4207	nsp	1.25B-2-23A 23P BtoB HEADER(MALE) P=1.25MM		L1091253223105	1		
	G4400	nsp	50MM/1P CKM9919T=CKM9919T BK1007#20		L0005000101405	1	*	
	G4405	nsp	120MM,50MM/2P CKM9919T=CKM9919T BK1007#20		L0001210202905	1	*	

SMPS 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							
	D4140-4146	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	7		
!	D4147	203050019501S	AP01C-V1 52RE-AX FAST RECOVERY RECTIFIER DIODES		K050000015000S	1		
	D4148	963201500160D	1N4007 52REEL 1000V 1A		K000400700220S	1		
	D4149	963204500210D	S30SC6MT 60V 30A TO-3P(MTO-3PT) SHINDENGEN		K120300600010S	1		
	D4150	00D2760401905	1SS133-DO34-AXIAL LRC		K000013300040S	1		
	IC4140	943231102160S	TOP268VG eDIP-12 OFF-LINE POWER SUPPLY IC		J1222680010S	1	*	
!	IC4142	00D2623047008	PC123X2YFZ (DIP4P SHARP)		K6141230000010S	1		
	IC4143	212050010508S	KIA2431AP,0.7W TO-92		J1262431180010S	1		
	TR4140	943229500110S	INK0010AC1 N-CH MOSFET SC-59 ISAHAYA		J5430010120010S	1	*	
	TR4142	963213500170D	KTC3198G,0.6W/TO92-REEL		J5023198G0000S	1		
	U4000	943239100730S	PST8448UR SYSTEM RESET SC-82AB MITSUMI		J1258448000010S	1		
	ZD4147-4149	963202500370D	ZJ39B-0.5W/5MA-52MM SEMTECH	E3, JP, S910	K06039R044522S	3		
	ZD4150	963202500970S	ZJ27B-0.5W/5MA-52MM SEMTECH		K06027R044522S	1	*	
	ZD4151-4156	963202500350D	ZJ22B-0.5W/5MA-52MM SEMTECH		K06022R044522S	6		
	ZD4157	963202500350D	ZJ22B-0.5W/5MA-52MM SEMTECH		K06022R044522S	1		
	ZD4158	963202500370D	ZJ39B-0.5W/5MA-52MM SEMTECH		K06039R044522S	1		
	ZD4159	963202500320D	ZJ5.6B-0.5W/5MA-52MM SEMTECH		K06005R644522S	1		
	ZD4160	963202500320D	ZJ5.6B-0.5W/5MA-52MM SEMTECH	E3, JP, S910	K06005R644522S	1		
	ZD4160	963202500340D	ZJ15B-0.5W/5MA-52MM SEMTECH	E2, E1C	K06015R044522S	1		
	ZD4162-4164	963202500960S	ZJ12B-0.5W/5MA-52MM SEMTECH		K06012R044522S	3		
	RESISTOR GROUP							
	R4141,4142	nsp	1M-J,1/5W-52RE-AX		C00001056P520S	2		
	R4143	nsp	330K-J,1/5W-52RE-AX		C00003346P520S	1		
	R4145	nsp	1M-J,1/16W-1608REEL		C20001056M160S	1		
	R4147	nsp	270K-J,1/16W-1608REEL	E3, JP, S910	C20002746M160S	1		
	R4147	nsp	56K-J,1/16W-1608REEL	E2, E1C	C20005636M160S	1		
	R4148,4149	nsp	2.2M-J,1/5W-52RE-AX	E3, JP, S910	C00002256P520S	2		
	R4150	nsp	1M-J,1/5W-52RE-AX	E3, JP, S910	C00001056P520S	1		
	R4151	nsp	11K-J,1/16W-1608REEL		C20001136M160S	1		
	R4152	nsp	10K-J,1/16W-1608REEL	E3, JP, S910	C20001036M160S	1		
	R4152	nsp	20K-J,1/16W-1608REEL	E2, E1C	C20002036M160S	1		
	R4153	nsp	6.8-J,1/5W-52RE-AX		C0006R806P520S	1		
	R4154	nsp	10-J,1/16W-1608REEL		C20001006M160S	1		
	R4155	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R4156	nsp	4.7K-J,1/16W-1608REEL		C20004726M160S	1		
	R4157	nsp	56-J,1/5W-52RE-AX		C00005606P520S	1		
	R4158	nsp	3.3K-J,1/5W-52RE-AX		C00003326P520S	1		
	R4159	nsp	5.6K-J,1/5W-52RE-AX		C00005626P520S	1		
	R4160	nsp	22K-F,1/16W-1608REEL		C20002234M161S	1		
	R4161	00D2472041967	6.8K-D,1/16W-1608REEL		C20006821M160S	1		
	R4163	nsp	47-F,1/16W-1608REEL		C20004704M161S	1	*	
	R4164	nsp	1M-J,1/5W-52RE-AX		C00001056P520S	1		
	R4165	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	CAPACIITORS GROUP							
	C4000	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4001	nsp	X7R0.015UF-K/50V-1608REEL		D011153777160S	1		
!	C4140,4141	963134011730S	DE1B3KX471KB4BL01 AC250V BULK MURATA		D00847127H010S	2		
!	C4142	963132011940S	DE2F3KY103MB3BM02 AC250V BULK MURATA		D008103589010S	1		
!	C4143	nsp	0.1UF-K/275V BULK X2 MPX104K3ID2 P=15MM CARLI		D02110407H010S	1		
	C4145	nsp	X7R 0.047UF-K/50V-1608REEL		D010473777160S	1	*	
	C4146	nsp	X7R)0.01UF-K/50V-1608REEL		D010103777160S	1		
	C4147	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
!	C4148,4149	963132011940S	DE2F3KY103MB3BM02 AC250V BULK MURATA		D008103589010S	2		
	C4150	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4151	943134501590S	100UF-M/200V,16*20 BULK NHA SY	E3, JP, S910	D04110108G000S	1		
	C4151	963134010200S	100UF-M/400V,18*31.5 BULK NHA SY	E2, E1C	D04110108K000S	1		
	C4152	963134010210S	47UF-M/25V,5*11-5RE NXA SY		D041470084050S	1		
	C4153	963132010120S	DEHR33A102KB2B		D00810207Q010S	1		
	C4154	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4155	963134010190S	10UF-M/50V,5*11-5RE NXA SY		D041100087050S	1		
!	C4156	963133502500S	DE1E3KX332MB4BN01F		D00833208H010S	1	*	
	C4159	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4160	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C4161	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C4162	963134010220S	5600UF-M/6.3V,12.5*35 NXA SY		D041562081001S	1		
	C4163	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C4164,4165	963134010220S	5600UF-M/6.3V,12.5*35 NXA SY		D041562081001S	2		
	C4166	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C4169	963133502510S	ST-0.0022UF-J/100V-5RE HPE222J2AP050T DAEHUNG		D02022206C250S	1	*	
	OTHER PARTS GROUP							
	BKT4141	nsp	AVRX2200WBKE3(DENON) BURRING HOLE SPCC t0.8+SN A4/		4010210196100SV	1	*	
	BKT4143	nsp	AVRX2200WBKE3(DENON) SPCC t0.8+SN plating A4/SCREW		4010210196000SV	1	*	
	BKT4144	nsp	SR5010U1B SPTE t0.3/SMPS		3070210836000S	1	*	
	CN4141	nsp	150MM/6P YMH025-06=CKM2509HV-06 WH1007#22		L000151060180S	1	*	
!	CP4142	nsp	LWB1143-02P 7.92MM HEADER,VER,2CKT		L1080114302l0S	1		
!	F4140	963652010510S	T2A/250V-IVBSUCPCcUR S506	E3, JP, S910	N751502001160S	1		
!	F4140	963652010500S	T1.6A/250V-IVBSUCPCcUR S506	E2, E1C	N751501601160S	1		
!	F4141	963652010520S	T6.3A/250V-IVBSUCPCcUR S506	E3, JP, S910	N751506301160S	1		
!	F4141	963652010910S	T3.15A/250V-IVBSUCPCcUR S506	E2, E1C	N751503151160S	1		
	FC4140A	nsp	PI5.2-REEL		G645000050010S	1		
	FC4140B,4141	nsp	PI5.2-REEL		G645000050010S	2		
	FC4141B	nsp	PI5.2-REEL		G645000050010S	1		
!	JK4140	963641011240S	AC0152PPA66 AC INLET 2P_REV1.0 CCC	E3, E2	G4300152P0001S	1		
	L4140	963111100420D	SQ2014 27mH VERTICAL TYPE LINE FILTER	E3, JP, S910	D320201405510VD3	1	*	
	L4140	963111100470S	SQ2014 50mH VERTICAL TYPE LINE FILTER	E2, E1C	D320201405000VD3	1	*	
!	RLY4140	963682100290D	JZC-36FD/005-HLT 23.8*9.5*24.5mm		G680060103030S	1		
	T4140	963102100540S	EER2525 SW TRANSFORMER		E060252505510V	1	*	
	CP4140	nsp	PLUG YW396-03AV 2P	E1C, JP, S910	L1083960300l0S	1		
	BKT4140	nsp	AVRX2200WBKE3(DENON) BURRING HOLE SPCC t0.8+SN A4/	E1C, JP, S910	4010210196100SV	1	*	

7CH_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							
	D402	00D2760401905	1SS133-DO34-AXIAL LRC		K0000013300040S	1		
	D405,406	nsp	JUMPER (0.6/52MM)		L0450840060040S	2		
	D408	00D2760401905	1SS133-DO34-AXIAL LRC		K0000013300040S	1		
	D411,412	nsp	JUMPER (0.6/52MM)		L0450840060040S	2		
	D414	00D2760401905	1SS133-DO34-AXIAL LRC		K0000013300040S	1		
	D417,418	nsp	JUMPER (0.6/52MM)		L0450840060040S	2		
	D420	00D2760401905	1SS133-DO34-AXIAL LRC		K0000013300040S	1		
	D423,424	nsp	JUMPER (0.6/52MM)		L0450840060040S	2		
	D426	00D2760401905	1SS133-DO34-AXIAL LRC		K0000013300040S	1		
	D429,430	nsp	JUMPER (0.6/52MM)		L0450840060040S	2		
	D432	00D2760401905	1SS133-DO34-AXIAL LRC		K0000013300040S	1		
	D435,436	nsp	JUMPER (0.6/52MM)		L0450840060040S	2		
	D438	00D2760401905	1SS133-DO34-AXIAL LRC		K0000013300040S	1		
	D441,442	nsp	JUMPER (0.6/52MM)		L0450840060040S	2		
	D458	nsp	0-J,1/16W-1608REEL		C20000006M160S	1		
	Q401	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	1		
	Q403	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100010S	1		
	Q405	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100010S	1		
	Q406	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J5222555100010S	1		
	Q407,408	21785000550AS	HN4A06J		J5200406002 10S	2		
	Q412	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	1		
	Q413	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	1		
	Q415	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100010S	1		
	Q417	00D9600196205	KSA992F,0.5W/TO92-REEL		J5000992F0050S	1		
	Q418	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J5222555100010S	1		
	Q419,420	21785000550AS	HN4A06J		J5200406002 10S	2		
	Q424	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	1		
	Q425	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	1		
	Q427	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100010S	1		
	Q429	21785000550AS	HN4A06J		J5200406002 10S	1		
	Q430	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J5222555100010S	1		
	Q431,432	21785000550AS	HN4A06J		J5200406002 10S	2		
	Q436	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	1		
	Q437	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	1		
	Q439	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100010S	1		
	Q442	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J5222555100010S	1		
	Q448	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	1		
	Q449	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	1		
	Q451	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100010S	1		
	Q454	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J5222555100010S	1		
	Q460	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	1		
	Q461	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	1		
	Q463	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100010S	1		
	Q466	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J5222555100010S	1		
	Q472	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	1		
	Q473	00D2710314903	KTA1024Y,1W/TO92L-REEL		J5001024Y0050S	1		
	Q475	00D2710318909	2N5401S 0.35W/SOT-23 REEL		J5202540100010S	1		
	Q478	00D2730479909	2N5551S 0.35W/SOT-23 REEL		J5222555100010S	1		
	Q484	00D2730471907	KTC3206Y,1W/TO92L-REEL		J5023206Y0050S	1		
	ZD401	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1		
	ZD404	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1		
	ZD407	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1		
	ZD410	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1		
	ZD413	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1		
	ZD416	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1		
	ZD419	963202500300D	ZJ5.1A-0.5W/5MA-52MM SEMTECH		K06005R134522S	1		
	RESISTOR GROUP							
	R401	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R402	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R404	nsp	RSD-R0-1WJ-4.7K 3*9 P=5MM SMALL R.REEL		N113135647230S	1		
	R406	963252100140D	DHPTF1608 471P 105T SMD PTC THERMISTOR		F320471001050S	1		
	R407	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R408	nsp	RSD-R0-1WJ-4.7K 3*9 P=5MM SMALL R.REEL		N113135647230S	1		
	R409	nsp	150K-J,1/5W-52RE-AX		C00001546P520S	1		
	R411	nsp	200K-J,1/5W-52RE-AX		C00002046P520S	1		
	R412	963121006330M	47K-J,1/5W-52RE-AX		C00004736P520S	1		
	R413,414	nsp	10K-J,1/5W-52RE-AX		C00001036P520S	2		
	R415	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	R416	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R417	nsp	270K-J,1/16W-1608REEL		C20002746M160S	1		
	R419	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R421	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R422	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1		
	R423	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R424,425	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2		
	R426	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1		
	R427	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R429	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R430,431	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2		
	R432	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1		
	R434	nsp	3.3K-J,1W-R.REEL		C060033265050S	1		
	R435	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1		
	R436	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1		
	R437	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R438	nsp	220-J,1/5W-52RE-AX		C00002216P520S	1		
	R439	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	R440	nsp	150-J,1/5W-52RE-AX		C00001516P520S	1		
	R441,442	nsp	1.2K-J,1W-5REEL		C060012265050S	2		
	R443	nsp	47-J,1W-R.REEL		C060047065060S	1		
	R444	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R445	nsp	RSD-R0-1WJ-4.7K 3*9 P=5MM SMALL R.REEL		N113135647230S	1		
	R446	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R450	963252100140D	DHPTF1608 471P 105T SMD PTC THERMISTOR		F320471001050S	1		
	R451	nsp	RSD-R0-1WJ-4.7K 3*9 P=5MM SMALL R.REEL		N113135647230S	1		
	R452	nsp	150K-J,1/5W-52RE-AX		C00001546P520S	1		
	R454	nsp	200K-J,1/5W-52RE-AX		C00002046P520S	1		
	R455	963121006330M	47K-J,1/5W-52RE-AX		C00004736P520S	1		
	R456,457	nsp	10K-J,1/5W-52RE-AX		C00001036P520S	2		
	R458	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	R459	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R460	nsp	270K-J,1/16W-1608REEL		C20002746M160S	1		
	R462	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R464	252310006544S	PTC PRF18BF471QB5RB SMD1608 75T		F320184710060S	1		
	R465	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1		
	R466	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R467,468	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2		
	R469	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1		
	R471	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R473	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R474,475	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2		
	R476	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1		
	R478	nsp	3.3K-J,1W-R.REEL		C060033265050S	1		
	R479	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1		
	R480	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1		
	R481	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R482	nsp	220-J,1/5W-52RE-AX		C00002216P520S	1		
	R483	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	R484	nsp	150-J,1/5W-52RE-AX		C00001516P520S	1		
	R485,486	nsp	1.2K-J,1W-5REEL		C060012265050S	2		
	R487	nsp	47-J,1W-R.REEL		C060047065060S	1		
	R488	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R489	nsp	RSD-R0-1WJ-4.7K 3*9 P=5MM SMALL R.REEL		N113135647230S	1		
	R490	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R493	00D9630337908	33-J,1W-R.REEL		C060033065050S	1		
	R494	963252100140D	DHPTF1608 471P 105T SMD PTC THERMISTOR		F320471001050S	1		
	R495	nsp	RSD-R0-1WJ-4.7K 3*9 P=5MM SMALL R.REEL		N113135647230S	1		
	R496	nsp	150K-J,1/5W-52RE-AX		C00001546P520S	1		
	R498	nsp	200K-J,1/5W-52RE-AX		C00002046P520S	1		
	R499	963121006330M	47K-J,1/5W-52RE-AX		C00004736P520S	1		
	R500,501	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	R502	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	R503	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R504	nsp	270K-J,1/16W-1608REEL		C20002746M160S	1		
	R506	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R507	nsp	220K-J,1/5W-52RE-AX		C00002246P520S	1		
	R509	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1		
	R510	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R511,512	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2		
	R513	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1		
	R514	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R516	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R517,518	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2		
	R519	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1		
	R520	nsp	220K-J,1/5W-52RE-AX		C00002246P520S	1		
	R521	nsp	3.3K-J,1W-R.REEL		C060033265050S	1		
	R522	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1		
	R523	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1		
	R524	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R525	nsp	220-J,1/5W-52RE-AX		C00002216P520S	1		
	R526	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	R527	nsp	150-J,1/5W-52RE-AX		C00001516P520S	1		
	R528,529	nsp	1.2K-J,1W-5REEL		C060012265050S	2		
	R530	nsp	47-J,1W-R.REEL		C060047065060S	1		
	R531	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R532	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R534	nsp	RSD-R0-1WJ-4.7K 3*9 P=5MM SMALL R.REEL		N113135647230S	1		
	R536	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R537	963252100140D	DHPTF1608 471P 105T SMD PTC THERMISTOR		F320471001050S	1		
	R538	nsp	RSD-R0-1WJ-4.7K 3*9 P=5MM SMALL R.REEL		N113135647230S	1		
	R539	nsp	150K-J,1/5W-52RE-AX		C00001546P520S	1		
	R541	nsp	200K-J,1/5W-52RE-AX		C00002046P520S	1		
	R542	963121006330M	47K-J,1/5W-52RE-AX		C00004736P520S	1		
	R543,544	nsp	10K-J,1/5W-52RE-AX		C00001036P520S	2		
	R545	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	R546	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R547	nsp	270K-J,1/16W-1608REEL		C20002746M160S	1		
	R549	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R551	00D9639005639	100-J,1W-R.REEL		C060010165060S	1		
	R552	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1		
	R553	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R554,555	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2		
	R556	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1		
	R557	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R559	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R560	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1		
	R561,562	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2		
	R564	nsp	3.3K-J,1W-R.REEL		C060033265050S	1		
	R565	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1		
	R566	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1		
	R567	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R568	nsp	220-J,1/5W-52RE-AX		C00002216P520S	1		
	R569	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	R570	nsp	150-J,1/5W-52RE-AX		C00001516P520S	1		
	R571,572	nsp	1.2K-J,1W-5REEL		C060012265050S	2		
	R573	nsp	47-J,1W-R.REEL		C060047065060S	1		
	R574	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R575	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R577	nsp	RSD-R0-1WJ-4.7K 3*9 P=5MM SMALL R.REEL		N113135647230S	1		
	R580	963252100140D	DHPTF1608 471P 105T SMD PTC THERMISTOR		F320471001050S	1		
	R581	nsp	RSD-R0-1WJ-4.7K 3*9 P=5MM SMALL R.REEL		N113135647230S	1		
	R582	nsp	150K-J,1/5W-52RE-AX		C00001546P520S	1		
	R584	nsp	200K-J,1/5W-52RE-AX		C00002046P520S	1		
	R585	963121006330M	47K-J,1/5W-52RE-AX		C00004736P520S	1		
	R586,587	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	R588	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	R589	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R590	nsp	270K-J,1/16W-1608REEL		C20002746M160S	1		
	R592	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R595	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1		
	R596	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R597,598	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2		
	R599	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1		
	R600	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R602	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R603,604	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2		
	R605	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1		
	R607	nsp	3.3K-J,1W-R.REEL		C060033265050S	1		
	R608	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1		
	R609	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1		
	R610	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R611	nsp	220-J,1/5W-52RE-AX		C00002216P520S	1		
	R612	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	R613	nsp	150-J,1/5W-52RE-AX		C00001516P520S	1		
	R614,615	nsp	1.2K-J,1W-5REEL		C060012265050S	2		
	R616	nsp	47-J,1W-R.REEL		C060047065060S	1		
	R617	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R618	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R620	nsp	RSD-R0-1WJ-4.7K 3*9 P=5MM SMALL R.REEL		N113135647230S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R623	963252100140D	DHPTF1608 471P 105T SMD PTC THERMISTOR		F3204710010 50S	1		
	R624	nsp	RSD-R0-1WJ-4.7K 3*9 P=5MM SMALL R.REEL		N113135647230S	1		
	R625	nsp	150K-J,1/5W-52RE-AX		C00001546P520S	1		
	R627	nsp	200K-J,1/5W-52RE-AX		C00002046P520S	1		
	R628	963121006330M	47K-J,1/5W-52RE-AX		C00004736P520S	1		
	R629,630	nsp	10K-J,1/5W-52RE-AX		C00001036P520S	2		
	R631	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	R632	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R633	nsp	270K-J,1/16W-1608REEL		C20002746M160S	1		
	R635	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R638	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1		
	R639	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R640,641	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2		
	R642	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1		
	R643	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R645	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R646,647	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2		
	R648	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1		
	R650	nsp	3.3K-J,1W-R.REEL		C060033265050S	1		
	R651	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1		
	R652	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1		
	R653	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R654	nsp	220-J,1/5W-52RE-AX		C00002216P520S	1		
	R655	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	R656	nsp	150-J,1/5W-52RE-AX		C00001516P520S	1		
	R657,658	nsp	1.2K-J,1W-5REEL		C060012265050S	2		
	R659	nsp	47-J,1W-R.REEL		C060047065060S	1		
	R660	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R661	nsp	100K-J,1/5W-52RE-AX		C00001046P520S	1		
	R663	nsp	RSD-R0-1WJ-4.7K 3*9 P=5MM SMALL R.REEL		N113135647230S	1		
	R666	963252100140D	DHPTF1608 471P 105T SMD PTC THERMISTOR		F3204710010 50S	1		
	R667	nsp	RSD-R0-1WJ-4.7K 3*9 P=5MM SMALL R.REEL		N113135647230S	1		
	R668	nsp	150K-J,1/5W-52RE-AX		C00001546P520S	1		
	R670	nsp	200K-J,1/5W-52RE-AX		C00002046P520S	1		
	R671	963121006330M	47K-J,1/5W-52RE-AX		C00004736P520S	1		
	R672,673	nsp	10K-J,1/5W-52RE-AX		C00001036P520S	2		
	R674	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	R675	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R676	nsp	270K-J,1/16W-1608REEL		C20002746M160S	1		
	R678	nsp	22K-J,1/5W-52RE-AX		C00002236P520S	1		
	R681	nsp	470-J,1/5W-52RE-AX		C00004716P520S	1		
	R682	nsp	10K-J,1/16W-1608REEL		C20001036M160S	1		
	R683,684	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2		
	R685	nsp	5.6K-J,1/16W-1608REEL		C20005626M160S	1		
	R686	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	1		
	R688	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R689,690	00D9630345903	RSD-R1-2WJ-0.47 3.5*8.6 P=5MM SMALL R.REEL		N113136647820S	2		
	R691	nsp	2.7K-J,1/5W-52RE-AX		C00002726P520S	1		
	R693	nsp	560-J,1/5W-52RE-AX		C00005616P520S	1		
	R694	nsp	3.3K-J,1W-R.REEL		C060033265050S	1		
	R695	nsp	470K-J,1/5W-52RE-AX		C00004746P520S	1		
	R696	nsp	33K-J,1/5W-52RE-AX		C00003336P520S	1		
	R697	nsp	220-J,1/5W-52RE-AX		C00002216P520S	1		
	R698	963125012630S	22-J,1W-5REEL		C060022065050S	1		
	R699	nsp	150-J,1/5W-52RE-AX		C00001516P520S	1		
	R700,701	nsp	1.2K-J,1W-5REEL		C060012265050S	2		
	R702	nsp	47-J,1W-R.REEL		C060047065060S	1		
	R703-709	nsp	1.2K-J,1/5W-52RE-AX		C00001226P520S	7		
	R717-723	nsp	220-J,1/5W-52RE-AX		C00002216P520S	7		
	R731,732	nsp	10K-J,1/16W-1608REEL		C20001036M160S	2		
	CAPACIITORS GROUP							
	C401	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C403	nsp	X7R)0.01UF-K/50V-1608REEL		D010103777160S	1		
	C404	13405014740AS	220UF-M/50V,10*12.5 KR3-050V221MG125-T/A5.0 KOSHIN		D040221087150S	1		
	C405	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C406	963133502490S	ST-0.00022UF-J/100V-5RE HPE221J2AP050T DAEHUNG		D02022106C250S	1	*	
	C407	13405013040AS	220UF-M/25V,8*11.5 KR3-025V221MF115-T/A5.0S KOSHIN		D040221084550S	1		
	C408	00D2544583971	47UF-M/50V,8*11.5-5RE ROB-50V470MG3#9-T2		D040470087140S	1		
	C410	963133502020S	470UF-M/16V,8*11.5 KR3-016V471MF115-T/A5.0S KOSHIN		D040471083550S	1		
	C412	963133502480S	ST-0.00047UF-J/100V-5RE HPE471J2AP050T DAEHUNG		D02047106C250S	1	*	
	C413	nsp	X7R2200PF-K/50V-2012REEL		D011222777200S	1		
	C415,416	00D9630234302	10UF-M/100V,6.3*11-5RE,SMS SY		D04010008C050S	2		
	C418	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C419	00D9630324005	100UF-M/100V,10*16-S.BULK,MHA-SY		D04010108C240S	1		
	C420	13405014740AS	220UF-M/50V,10*12.5 KR3-050V221MG125-T/A5.0 KOSHIN		D040221087150S	1		
	C421	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C422	963133502490S	ST-0.00022UF-J/100V-5RE HPE221J2AP050T DAEHUNG		D02022106C250S	1	*	
	C423	13405013040AS	220UF-M/25V,8*11.5 KR3-025V221MF115-T/A5.0S KOSHIN		D040221084550S	1		
	C424	00D2544583971	47UF-M/50V,8*11.5-5RE ROB-50V470MG3#9-T2		D040470087140S	1		
	C426	963133502020S	470UF-M/16V,8*11.5 KR3-016V471MF115-T/A5.0S KOSHIN		D040471083550S	1		
	C428	963133502480S	ST-0.00047UF-J/100V-5RE HPE471J2AP050T DAEHUNG		D02047106C250S	1	*	
	C429	nsp	X7R2200PF-K/50V-2012REEL		D011222777200S	1		
	C434	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C436	13405014740AS	220UF-M/50V,10*12.5 KR3-050V221MG125-T/A5.0 KOSHIN		D040221087150S	1		
	C437	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C438	963133502490S	ST-0.00022UF-J/100V-5RE HPE221J2AP050T DAEHUNG		D02022106C250S	1	*	
	C439	13405013040AS	220UF-M/25V,8*11.5 KR3-025V221MF115-T/A5.0S KOSHIN		D040221084550S	1		
	C440	00D2544583971	47UF-M/50V,8*11.5-5RE ROB-50V470MG3#9-T2		D040470087140S	1		
	C442	963133502020S	470UF-M/16V,8*11.5 KR3-016V471MF115-T/A5.0S KOSHIN		D040471083550S	1		
	C444	963133502480S	ST-0.00047UF-J/100V-5RE HPE471J2AP050T DAEHUNG		D02047106C250S	1	*	
	C445	nsp	X7R2200PF-K/50V-2012REEL		D011222777200S	1		
	C450	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C452	13405014440AS	100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1		
	C453	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C454	963133502490S	ST-0.00022UF-J/100V-5RE HPE221J2AP050T DAEHUNG		D02022106C250S	1	*	
	C455	13405013040AS	220UF-M/25V,8*11.5 KR3-025V221MF115-T/A5.0S KOSHIN		D040221084550S	1		
	C456	00D2544583971	47UF-M/50V,8*11.5-5RE ROB-50V470MG3#9-T2		D040470087140S	1		
	C458	963133502020S	470UF-M/16V,8*11.5 KR3-016V471MF115-T/A5.0S KOSHIN		D040471083550S	1		
	C460	963133502480S	ST-0.00047UF-J/100V-5RE HPE471J2AP050T DAEHUNG		D02047106C250S	1	*	
	C461	nsp	X7R2200PF-K/50V-2012REEL		D011222777200S	1		
	C466	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C468	13405014440AS	100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1		
	C469	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C470	963133502490S	ST-0.00022UF-J/100V-5RE HPE221J2AP050T DAEHUNG		D02022106C250S	1	*	
	C471	13405013040AS	220UF-M/25V,8*11.5 KR3-025V221MF115-T/A5.0S KOSHIN		D040221084550S	1		
	C472	00D2544583971	47UF-M/50V,8*11.5-5RE ROB-50V470MG3#9-T2		D040470087140S	1		
	C474	963133502020S	470UF-M/16V,8*11.5 KR3-016V471MF115-T/A5.0S KOSHIN		D040471083550S	1		
	C476	963133502480S	ST-0.00047UF-J/100V-5RE HPE471J2AP050T DAEHUNG		D02047106C250S	1	*	
	C477	nsp	X7R2200PF-K/50V-2012REEL		D011222777200S	1		
	C479,480	00D9630234302	10UF-M/100V,6.3*11-5RE,SMS SY		D04010008C050S	2		
	C482	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C484	13405014440AS	100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1		
	C485	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C486	963133502490S	ST-0.00022UF-J/100V-5RE HPE221J2AP050T DAEHUNG		D02022106C250S	1	*	
	C487	13405013040AS	220UF-M/25V,8*11.5 KR3-025V221MF115-T/A5.0S KOSHIN		D040221084550S	1		
	C488	00D2544583971	47UF-M/50V,8*11.5-5RE ROB-50V470MG3#9-T2		D040470087140S	1		
	C490	963133502020S	470UF-M/16V,8*11.5 KR3-016V471MF115-T/A5.0S KOSHIN		D040471083550S	1		
	C492	963133502480S	ST-0.00047UF-J/100V-5RE HPE471J2AP050T DAEHUNG		D02047106C250S	1	*	
	C493	nsp	X7R2200PF-K/50V-2012REEL		D011222777200S	1		
	C498	nsp	X7R)0.1UF-K/50V-1608REEL		D011104577160S	1		
	C500	13405014440AS	100UF-M/50V,8*11.5 KR3-050V101MF115-T/A5.0S KOSHIN		D040101087550S	1		
	C501	nsp	COG100PF-J/50V-1608REEL		D010101167160S	1		
	C502	963133502490S	ST-0.00022UF-J/100V-5RE HPE221J2AP050T DAEHUNG		D02022106C250S	1	*	
	C503	13405013040AS	220UF-M/25V,8*11.5 KR3-025V221MF115-T/A5.0S KOSHIN		D040221084550S	1		
	C504	00D2544583971	47UF-M/50V,8*11.5-5RE ROB-50V470MG3#9-T2		D040470087140S	1		
	C506	963133502020S	470UF-M/16V,8*11.5 KR3-016V471MF115-T/A5.0S KOSHIN		D040471083550S	1		
	C508	963133502480S	ST-0.00047UF-J/100V-5RE HPE471J2AP050T DAEHUNG		D02047106C250S	1	*	
	C509	nsp	X7R2200PF-K/50V-2012REEL		D011222777200S	1		
	C511,512	00D9630234302	10UF-M/100V,6.3*11-5RE,SMS SY		D04010008C050S	2		
	C513,514	00D9630338402	330UF-M/6.3V,6.3*11-5RE SMS SY		D040331081050S	2		
	C515	00D9630324607	47UF-M/10V,5*11-5RE SMS SY (Pb Free)		D040470082060S	1		
	OTHER PARTS GROUP							
	BKT400	nsp	AVRX2200WBKE3(DENON) BURRING HOLE SPCC t0.8+SN A4/		4010210196100SV	1	*	
	CLAMP400,401	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	2		
	CN404	nsp	180MM/7P 20010HS-07=CKM2002HV-07 YW1007#26		L002181070070S	1	*	
	CP401	nsp	20010WS-13A00 DIP13P STRAIGHT		L101200101310S	1		
	CP402	nsp	YMW025-05R DIP ST		L102025050020S	1		
	CP403	nsp	20010WS-10A00 DIP10P STRAIGHT		L101200101010S	1		
	CP405	nsp	YMW025-03R DIP ST		L102025030020S	1		
	G400	nsp	70MM/1P CKM9919T*2 BK1007#20		L000700010150S	1		
	G402	nsp	70MM/1P CKM9919T*2 BK1007#20		L000700010150S	1		
	G403	nsp	470MM/1P CKM9919T=CKM9919T BK1007#20		L000471010020S	1	*	
	TP401-407	nsp	20010WR-02A00 DIP2P RIGHT ANGLE		L101200100220S	7		
	VR411-417	963161012400S	EVN-DCAA03B13/REEL 1KB		C541102315000S	7		

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							
	D1089	963204500220D	LRB521S-30T1G SOD523 SCHOTTKY BARRIER DIODE		K125521305230S	1		
	D1090	963204500220D	LRB521S-30T1G SOD523 SCHOTTKY BARRIER DIODE	E3	K125521305230S	1		
	D1091	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323	E3	K005041480230S	1		
	D1093	963204500220D	LRB521S-30T1G SOD523 SCHOTTKY BARRIER DIODE	E3	K125521305230S	1		
	D1096	963204500220D	LRB521S-30T1G SOD523 SCHOTTKY BARRIER DIODE		K125521305230S	1		
	D1097	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	1		
	D1104,1105	963201500170D	LBAS16HT1G FAST SWITCHING SOD-323		K005041480230S	2		
	Q1000	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1001	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1002	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1003	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1004	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1005	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1009	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1010	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1011	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1012	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1013	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1014	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1015	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1016	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1018,1019	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J5223052000050S	2		
	Q1022-1029	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J5223052000050S	8		
	Q1030,1031	963212500030S	ISA1530AC1 0.2W/SC-59 ISAHAYA		J5200153012105	2		
	Q1035	943215500030S	RT1P441C 0.2W/SC-59 ISAHAYA	E3	J5201044112105	1		
	Q1036	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA	E3	J5223052000050S	1		
	Q1041,1042	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J5223052000050S	2		
	Q1043	963219002180S	2SD2114KT146W SMT3 SOT23-REEL		J5232114K00105	1		
	Q1046	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1047	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1050	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1051	963219004200S	FDC608PZ P-CH 2.5V MOSFET SOT6		J5436080000105	1		
	Q1052	943214500020S	2SC3052 0.15W/SC-59 REEL ISAHAYA		J5223052000050S	1		
	Q1055	963211500160D	PBSS5140U SOT323 40V LOW VCEsat PNP TR		J5210514010105	1		
	Q1056	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1057	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1058	963219004200S	FDC608PZ P-CH 2.5V MOSFET SOT6		J5436080000105	1		
	Q1059	963211500160D	PBSS5140U SOT323 40V LOW VCEsat PNP TR		J5210514010105	1		
	Q1060	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1062	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1063	963219004200S	FDC608PZ P-CH 2.5V MOSFET SOT6		J5436080000105	1		
	Q1064	963211500160D	PBSS5140U SOT323 40V LOW VCEsat PNP TR		J5210514010105	1		
	Q1065	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1066	943216500050S	RT1N441C 0.2W/SC-59 ISAHAYA		J5221044112105	1		
	Q1067	963219004200S	FDC608PZ P-CH 2.5V MOSFET SOT6		J5436080000105	1		
	Q1070	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1071	963219004200S	FDC608PZ P-CH 2.5V MOSFET SOT6		J5436080000105	1		
	Q1072	963211500160D	PBSS5140U SOT323 40V LOW VCEsat PNP TR		J5210514010105	1		
	Q1073	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1075	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q1076	963211500160D	PBSS5140U SOT323 40V LOW VCEsat PNP TR		J5210514010105	1		
	Q2202	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	Q3630	943216500020S	RT1N141C 0.2W/SC-59 ISAHAYA		J5221014112105	1		
	U1000	23681050460AS	MN864788 HDMI HQFP144P		J0408647880105	1		
	U1002	963239101350S	SN74CBT3251PWR TSSOP16 FET MUX/DEMUX		J0407432510305	1		
	U1003	23681050460AS	MN864788 HDMI HQFP144P		J0408647880105	1		
	U1005	23671011050AS	MFI337S3959 COPROCESSOR(IPOD) DENON SAGUB		J0443739591005	1		
	U1006	963239101360S	BD82065FVJ CURRENT LIMIT 2.4A TSSOP-B8J		J0468206500105	1		
	U1007,1008	nsp	PIN HEADER 1.27MM 64P S1210-64SVB-S01-1R		L4240121026405	2		
	U1010	24681009260AS	IC,MEMORY FLASH MX25L25635FMI-10G 256M SERIAL FLASH SOP16		J0052525610105	1		4
	U1016	00D2623444902	TC74VHC08FT CMOS 2-INPUT AND GATE TSSOP14 P-0.65	E2, E1C, JP, S910	J0407408002805	1		
	U1017	963239101320S	R1EX24128BSAS0I 128Kbit SERIAL SOP8 RENESAS		J0002412820105	1		
	U1018	963243103060S	R5F564MJCDFC AVRX2200W / AVRS910W (MPU)		8952910000010	1	*	
	└	-	R5F564MJCDFC		J0205640001005	1	*	
	U1022	236810064604S	AD8195ACPZ HDMI/DVI BUFFER EQ LFCSP40		J0408195055105	1		
	U1023	963246101150S	W9864G6KH-5 1M*4BANKS*16BIT(64MB) TSOP54 200MHz		J0019864650205	1	*	
	U1025	963248103280S	MX25L6406EM2I-12G (WITH DSP SOFTWARE)		8952220000090	1	*	4
	└	-	MX25L6406EM2I-12G 64M SERIAL FLASH SOP8		J0052564012105	1		
	U1026	23681016160AS	ADV8003KBCZ-8B (AD55/058Z-0)		J0458003050105	1		
	U1027	963248103290S	MX25L12835FMI-10G AVRX2200W / AVRS910W (GUI)		8952220000100	1	*	4
	└	-	MX25L12835FMI-10G 128M SERIAL FLASH SOP16		J0052512810605	1		
	U1028,1029	963246101010S	A3R12E40CBF-8E 512Mb DDR2 SDRAM FBGA84		J0010301240805	2		
	U1030	943239010400S	NJM2845DL1-33 3.3V TO-252-3 LOW-DROP VOL REGULATOR		J1262845330105	1		
	U1039	23681050460AS	MN864788 HDMI HQFP144P		J0408647880105	1		
	U1040	23681014050AS	PCM9211 TRANSCEIVER LQFP48		J0469211000105	1		
	U1041	963239101710S	5M80ZT100C5N TQFP100 (WITH AUDIO PLD SOFTWARE)		8952220000110	1	*	4
	└	-	5M80ZT100C5N TQFP100		J0030580100505	1		
	U1042	00D2623077900	TC74VHCU04FT HEX INVERTER TSSOP14	E3, S910	J0407404055805	1		
	U1043,1044	963239101100S	BCR-802-M25 25MBPS OPTICAL RECEIVER INTERFACE		E1008020002505	2		
	U1045	963239002150S	SN74LVC244APWR TSSOP 20P/OCTAL BUFFER/DRIVER		J0407424402305	1		
	U1048	236810082503S	PCM1690 HTSSOP48		J0421690000105	1		
	U1050	943239010400S	NJM2845DL1-33 3.3V TO-252-3 LOW-DROP VOL REGULATOR		J1262845330105	1		
	U1052	23681012050AS	PCM5100 TSSOP20 AUDIO STEREO DAC		J0425100055105	1		
	U1055	23681012760AS	ADV7850 HDMI 1.4A RECEIVER BGA425		J0407850055105	1		
	U1061,1062	234810014504S	MC14094BDTR2G SHIFT REGISTER TSSOP16P		J0401409400205	2		
	U1063-1072	963231102200S	MP2143DJ 3A STEP DOWN SWITCHER T-SOT23-8		J1222143000105	10	*	
	U1073	963245100680S	CS49844A AUDIO DSP		J0804984400105	1	*	
	U3204	963233102120S	SN74LVC827APWR TSSOP24 10BIT BUFFER/DRIVER		J0407482700105	1	*	
	RESISTOR GROUP							
	R1000	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1001	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1006	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1010,1011	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1012	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1013	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1014	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1015,1016	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1017	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1018	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1019	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1021	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1038	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1039	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1040,1041	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1042	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R1043	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1044,1045	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1052	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	1		
	R1053	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1055	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	1		
	R1057,1058	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	2		
	R1060-1062	nsp	47-J,1/16W-1005REEL		C20004706M101S	3		
	R1063	nsp	1M-J,1/16W-1005REEL		C20001056M101S	1		
	R1064	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1068	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1069	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1070	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1071,1072	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1074	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1075	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1076	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1080	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1081,1082	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1086	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1089	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1092	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1093	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1096	nsp	2.2K-J,1/16W-1005REEL		C20002226M101S	1		
	R1097	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1099	nsp	8.2K-J,1/16W-1005REEL		C20008226M101S	1		
	R1101	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1102	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1103,1104	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1105	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1106	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1107,1108	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1117	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1120	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1121	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1122	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1123,1124	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1125	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1126	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1127	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1129	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1146	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1147	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1148,1149	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1150	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1151	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1152,1153	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1160	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	1		
	R1161	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1163	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	1		
	R1164	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1165,1166	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	2		
	R1167	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1168-1170	nsp	47-J,1/16W-1005REEL		C20004706M101S	3		
	R1171	nsp	1M-J,1/16W-1005REEL		C20001056M101S	1		
	R1173-1176	nsp	10K-J,1/16W-1005REEL		C20001036M111S	4		
	R1177	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1178	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1179-1181	nsp	47K-J,1/16W-1005REEL		C20004736M101S	3		
	R1183	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1184	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1186	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1187,1188	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1189	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1192,1193	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R1196	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1199	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1206	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1209-1212	nsp	0-J,1/16W-1005REEL		C20000006M101S	4		
	R1214	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1215-1217	nsp	10K-J,1/16W-1005REEL		C20001036M111S	3		
	R1220	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1233	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1234	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1235	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1236-1238	nsp	100-J,1/16W-1005REEL		C20001016M101S	3		
	R1240	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1241,1242	nsp	100-J,1/16W-1005REEL		C20001016M101S	2		
	R1249,1250	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1252	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1253	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1254	nsp	100-J*4 1/16W SMD(1005) WA04		C180101040500S	1		
	R1255	nsp	10-F,1/16W-1005REEL		C20001004M100S	1		
	R1258	nsp	100-J*4 1/16W SMD(1005) WA04		C180101040500S	1		
	R1259	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1263	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1264-1268	nsp	33-J,1/16W-1005REEL		C20003306M101S	5		
	R1269	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1270,1271	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1273-1275	nsp	33-J,1/16W-1005REEL		C20003306M101S	3		
	R1332	nsp	22K-J,1/16W-1005REEL		C20002236M101S	1		
	R1337	nsp	22K-J,1/16W-1005REEL		C20002236M101S	1		
	R1339	nsp	22K-J,1/16W-1005REEL		C20002236M101S	1		
	R1341	nsp	22K-J,1/16W-1005REEL		C20002236M101S	1		
	R1343	nsp	22K-J,1/16W-1005REEL		C20002236M101S	1		
	R1344,1345	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1346	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1347	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1348	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1349	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1354	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1355	nsp	18K-J,1/16W-1005REEL		C20001836M101S	1		
	R1356	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1357	nsp	120K-J,1/16W-1005REEL		C20001246M101S	1		
	R1358	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1359	nsp	120K-J,1/16W-1005REEL		C20001246M101S	1		
	R1360	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1362	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1363	nsp	120K-J,1/16W-1005REEL		C20001246M101S	1		
	R1364	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1366	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1367,1368	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1369	nsp	33K-J,1/16W-1005REEL		C20003336M101S	1		
	R1370	nsp	18K-J,1/16W-1005REEL		C20001836M101S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R1371	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1379	nsp	0-J,1/16W-1005REEL	E3	C20000006M101S	1		
	R1384	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1385	nsp	0-J,1/16W-1005REEL	E3	C20000006M101S	1		
	R1393,1394	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1435	nsp	0-J,1/16W-1005REEL	E3	C20000006M101S	1		
	R1443	nsp	1K-J,1/16W-1005REEL	E3	C20001026M101S	1		
	R1448	nsp	3.3K-J,1/16W-1005REEL	E3	C20003326M101S	1		
	R1450	nsp	2.2K-J,1/16W-1005REEL	E3	C20002226M101S	1		
	R1451	nsp	100K-J,1/16W-1005REEL	E3	C20001046M101S	1		
	R1453,1454	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1457,1458	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1459	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1460	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1461	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1462-1464	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	3		
	R1465,1466	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1470-1473	nsp	33-J,1/16W-1005REEL		C20003306M101S	4		
	R1474	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1475-1477	nsp	33-J,1/16W-1005REEL		C20003306M101S	3		
	R1478	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1479,1480	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1485	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1486	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1487	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1488,1489	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1490	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1491	nsp	1.2K-J,1/16W-1005REEL		C20001226M101S	1		
	R1492	nsp	2.2M-J,1/16W-1005REEL		C20002256M101S	1		
	R1493-1496	nsp	33-J,1/16W-1005REEL		C20003306M101S	4		
	R1497	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1498	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1499	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1500,1501	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1502	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1503	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1504	nsp	27K-J,1/16W-1005REEL		C20002736M101S	1		
	R1505	nsp	220K-J,1/16W-1005REEL		C20002246M101S	1		
	R1506-1519	nsp	33-J,1/16W-1005REEL		C20003306M101S	14		
	R1520	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1521	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1522,1523	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1524	nsp	0-J,1/16W-1608REEL	E2	C20000006M160S	1		
	R1524	nsp	10K-J,1/16W-1608REEL	E1C, JP	C20001036M160S	1		
	R1524	nsp	18K-J,1/16W-1608REEL	S910	C20001836M160S	1		
	R1525	nsp	0-J,1/16W-1608REEL	E3	C20000006M160S	1		
	R1525	nsp	10K-J,1/16W-1608REEL	E1C	C20001036M160S	1		
	R1525	nsp	22K-J,1/16W-1608REEL	JP	C20002236M160S	1		
	R1525	nsp	3.3K-J,1/16W-1608REEL	S910	C20003326M160S	1		
	R1526-1528	nsp	1K-J,1/16W-1005REEL		C20001026M101S	3		
	R1530	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1531	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1533	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1546	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1547	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1550	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1552	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1553	nsp	2.2K-J,1/16W-1005REEL		C20002226M101S	1		
	R1555,1556	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1558	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1561	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1588	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1589	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1590	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1591	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1593	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1595	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1597	nsp	1M-J,1/16W-1005REEL		C20001056M101S	1		
	R1598-1600	nsp	47-J,1/16W-1005REEL		C20004706M101S	3		
	R1601	nsp	2.2K-J,1/16W-1005REEL		C20002226M101S	1		
	R1602-1606	nsp	47-J,1/16W-1005REEL		C20004706M101S	5		
	R1608	nsp	56-J,1/16W-1005REEL		C20005606M101S	1		
	R1609,1610	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	2		
	R1611	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1612	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1613	nsp	56-J,1/16W-1005REEL		C20005606M101S	1		
	R1614-1616	nsp	47-J,1/16W-1005REEL		C20004706M101S	3		
	R1617	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1618	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1619,1620	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1622,1623	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1627	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1628	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	1		
	R1630,1631	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	2		
	R1632	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1634	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1637,1638	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1640	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1641	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	1		
	R1642,1643	nsp	1K-D,1/16W-1608REEL		C20001021M160S	2		
	R1645	nsp	470-D,1/16W-1608REEL		C20004711M160S	1		
	R1647	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1648	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1651	nsp	20K-J,1/16W-1005REEL		C20002036M101S	1		
	R1652	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1653,1654	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	2		
	R1656	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1657	nsp	0-J*2 1/16W SMD(1005) WA04Y		C180000022100S	1		
	R1658	nsp	2.7K-F,1/16W-1608REEL		C20002724M161S	1		
	R1659	nsp	180-F,1/16W-1608REEL		C20001814M161S	1		
	R1660	nsp	2.7K-F,1/16W-1608REEL		C20002724M161S	1		
	R1661	nsp	180-F,1/16W-1608REEL		C20001814M161S	1		
	R1663-1665	nsp	0-J*2 1/16W SMD(1005) WA04Y		C180000022100S	3		
	R1666-1669	nsp	33-J,1/16W-1005REEL		C20003306M101S	4		
	R1671-1674	nsp	0-J,1/16W-1005REEL		C20000006M101S	4		
	R1675	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1676,1677	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1678	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1680	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1681	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1682	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1683	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1684	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R1685,1686	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	2		
	R1687	nsp	56-J,1/16W-1005REEL		C20005606M101S	1		
	R1688,1689	nsp	47-J,1/16W-1005REEL		C20004706M101S	2		
	R1690,1691	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1692	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	1		
	R1693,1694	nsp	47-J,1/16W-1005REEL		C20004706M101S	2		
	R1695-1700	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	6		
	R1701,1702	nsp	47-J,1/16W-1005REEL		C20004706M101S	2		
	R1703-1710	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	8		
	R1711	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1715,1716	nsp	1K-D,1/16W-1608REEL		C20001021M160S	2		
	R1717,1718	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1731	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1732	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1733,1734	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1735	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1736	nsp	200K-F,1/16W-1608REEL		C20002044M160S	1	*	
	R1737	nsp	220K-F,1/16W-1608REEL		C20002244M160S	1	*	
	R1738	nsp	10K-F,1/16W-1608REEL		C20001034M160S	1		
	R1739	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1740	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1741,1742	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1743	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1746,1747	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1748	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R1750,1751	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1753	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1754	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1755	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1756	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1759	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1760	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1761	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1762-1765	nsp	0-J,1/16W-1005REEL		C20000006M101S	4		
	R1766	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1767	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1768-1771	nsp	33-J,1/16W-1005REEL		C20003306M101S	4		
	R1772	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1774,1775	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1776-1778	nsp	10K-J,1/16W-1005REEL		C20001036M111S	3		
	R1779	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1780,1781	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1782,1783	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1784	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1785	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1786,1787	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1788	nsp	10K-F,1/16W-1608REEL		C20001034M160S	1		
	R1789	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1790	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1791	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1792	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1793	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1794	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1795	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1796	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1797	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1798	nsp	200K-F,1/16W-1608REEL		C20002044M160S	1	*	
	R1799	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1800	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1801	nsp	220K-F,1/16W-1608REEL		C20002244M160S	1	*	
	R1802	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1809	nsp	10K-F,1/16W-1608REEL		C20001034M160S	1		
	R1810	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1811	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1812	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1813,1814	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1815	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1818	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1819	nsp	27K-J,1/16W-1005REEL		C20002736M101S	1		
	R1820,1821	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1822	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1823	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1824	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1825	nsp	0-J,1/16W-1005REEL	E3	C20000006M101S	1		
	R1827	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R1828	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1829	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1830	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1833,1834	nsp	0-J,1/16W-1608REEL		C20000006M160S	2		
	R1837	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1838	nsp	75-J,1/16W-1608REEL		C20007506M160S	1		
	R1839	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1840	nsp	75-J,1/16W-1608REEL		C20007506M160S	1		
	R1841	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1844	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1850-1852	nsp	47K-J,1/16W-1005REEL		C20004736M101S	3		
	R1853-1855	nsp	10-J,1/16W-1005REEL		C20001006M101S	3		
	R1856,1857	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1858	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1859,1860	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1861	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1862,1863	nsp	0-J,1/16W-1005REEL		C20000006M101S	2		
	R1864,1865	nsp	10-J,1/16W-1005REEL		C20001006M101S	2		
	R1866	nsp	4.7K-J,1/16W-1005REEL	S910	C20004726M101S	1		
	R1867	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R1868	nsp	4.7K-J,1/16W-1005REEL	E3, E2, E1C, JP	C20004726M101S	1		
	R1869,1870	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	2		
	R1871	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1873-1880	nsp	0-J,1/16W-1005REEL		C20000006M101S	8		
	R1881-1883	nsp	47-J,1/16W-1005REEL		C20004706M101S	3		
	R1884	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R1885,1886	nsp	1.8K-J,1/16W-1005REEL		C20001826M101S	2		
	R1887,1888	nsp	51-D,1/16W-1608REEL		C20005101M160S	2		
	R1889,1890	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1891	nsp	5.1-J,1/16W-1005REEL		C2005R106M100S	1		
	R1892	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1893	nsp	1M-J,1/16W-1005REEL		C20001056M101S	1		
	R1894	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1897	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1898	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R1899	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1900,1901	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R1902	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R1903	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R1905	nsp	820-J,1/16W-1005REEL		C20008216M101S	1		
	R1906	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1907	nsp	680-J,1/16W-1005REEL		C20006816M101S	1		
	R1908	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1909	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1910	nsp	10K-J*4 1/16W SMD(1005) WA04		C180103042100S	1		
	R1911	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1914,1915	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1916,1917	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	2		
	R1919	nsp	0-J,1/16W-1608REEL		C20000006M160S	1		
	R1920,1921	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1922	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1923	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1924	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1925-1927	nsp	33-J,1/16W-1005REEL		C20003306M101S	3		
	R1929	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1931,1932	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1933	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1934	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R1935,1936	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1937	nsp	75-J,1/16W-1608REEL		C20007506M160S	1		
	R1940	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1941,1942	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R1943	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R1944,1945	nsp	10K-J,1/16W-1005REEL		C20001036M111S	2		
	R1950	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R1953-1955	nsp	10K-J,1/16W-1005REEL		C20001036M111S	3		
	R1956	nsp	470-J,1/16W-1005REEL	E3, S910	C20004716M101S	1		
	R1957	nsp	47K-J,1/16W-1005REEL	E3, S910	C20004736M101S	1		
	R1958,1959	nsp	150-J,1/16W-1005REEL	E3, S910	C20001516M101S	2		
	R1960	nsp	330K-J,1/16W-1005REEL	E3, S910	C20003346M101S	1		
	R1961	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1963	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1965, 1966	nsp	0-J,1/16W-1005REEL	E2, E1C, JP	C20000006M101S	2		
	R1967	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1969	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1970	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R1983	nsp	5.1-J,1/16W-1005REEL		C2005R106M100S	1		
	R1984-1986	nsp	0-J*2 1/16W SMD(1005) WA04Y		C180000022100S	3		
	R1988-1990	nsp	0-J*2 1/16W SMD(1005) WA04Y		C180000022100S	3		
	R1992	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R1993,1994	nsp	1K-J,1/16W-1005REEL		C20001026M101S	2		
	R1995	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R1997,1998	nsp	X7R)0.1UF-K/25V-1608REEL		D011104774161S	2		
	R1999	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2001	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R2002	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2003	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R2004	nsp	200K-F,1/16W-1608REEL		C20002044M160S	1	*	
	R2006	nsp	220K-F,1/16W-1608REEL		C20002244M160S	1	*	
	R2007	nsp	0-J,1/16W-1608REEL		C20000006M160S	1		
	R2009	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R2010	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2011	nsp	200K-F,1/16W-1608REEL		C20002044M160S	1	*	
	R2012	nsp	44.2K-F,1/10W-1608REEL		C200442240161S	1	*	
	R2013	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2014	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R2015	nsp	0-J,1/16W-1608REEL		C20000006M160S	1		
	R2016	nsp	200K-D,1/10W-1608REEL		C200020410161S	1	*	
	R2017	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2018	nsp	44.2K-D,1/10W-1608REEL		C200442210160S	1	*	
	R2020	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R2021	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2022	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R2023	nsp	0-J,1/16W-1608REEL		C20000006M160S	1		
	R2024	nsp	200K-F,1/16W-1608REEL		C20002044M160S	1	*	
	R2025	nsp	300K-F,1/16W-1608REEL		C20003044M160S	1		
	R2027,2028	nsp	33-J,1/16W-1005REEL		C20003306M101S	2		
	R2029	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R2030	nsp	15K-F,1/16W-1608REEL		C20001534M160S	1	*	
	R2031	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R2032	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R2033	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R2034	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2035	nsp	82K-F,1/16W-1608REEL		C20008234M161S	1	*	
	R2036	nsp	200K-F,1/16W-1608REEL		C20002044M160S	1	*	
	R2037	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R2038	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2040	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R2041	nsp	200K-D,1/10W-1608REEL		C200020410161S	1	*	
	R2043	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R2044	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2046	nsp	4.7K-D,1/10W-1608REEL		C200047210161S	1	*	
	R2047	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2048	nsp	180K-D,1/10W-1608REEL		C200018410160S	1	*	
	R2049	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R2051	nsp	100K-D,1/16W-1608REEL		C20001041M161S	1		
	R2052	nsp	0-J,1/16W-1608REEL		C20000006M160S	1		
	R2054	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R2055	nsp	200K-D,1/10W-1608REEL		C200020410161S	1	*	
	R2056	nsp	1.2K-D,1/16W-1608REEL		C20001221M161S	1	*	
	R2057	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R2058	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2059	nsp	62K-D,1/10W-1608REEL		C200062310161S	1	*	
	R2060	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R2061	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R2062	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2063	nsp	200K-D,1/10W-1608REEL		C200020410161S	1	*	
	R2065	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R2066	nsp	470-J,1/16W-1005REEL		C20004716M101S	1		
	R2067	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R2068	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R2069	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2070	nsp	33-J,1/16W-1005REEL		C20003306M101S	1		
	R2072	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2074	nsp	100K-J,1/16W-1005REEL		C20001046M101S	1		
	R2076	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R2077	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R2078	nsp	470-J,1/16W-1005REEL		C20004716M101S	1		
	R2079	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R2082	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2083,2084	nsp	100-J,1/16W-1005REEL		C20001016M101S	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R2085	nsp	100-J,1/16W-1608REEL		C20001016M160S	1		
	R2087	nsp	100-J,1/16W-1005REEL		C20001016M101S	1		
	R2089-2092	nsp	24-J,1/16W-1608REEL		C20002406M160S	4		
	R2093-2096	nsp	51-J,1/16W-1608REEL		C20005106M160S	4		
	R2097	nsp	2.2K-J,1/16W-1005REEL		C20002226M101S	1		
	R2098-2100	nsp	100-J,1/16W-1005REEL		C20001016M101S	3		
	R2101-2103	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	3		
	R2104	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R2105	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R2108	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	1		
	R2109	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R2110	nsp	0-J,1/16W-1005REEL		C20000006M101S	1		
	R2111-2114	nsp	3.3K-J,1/16W-1005REEL		C20003326M101S	4		
	R2117	nsp	0-J,1/16W-1608REEL		C20000006M160S	1		
	R2118	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R2120	nsp	470-D,1/16W-1608REEL		C20004711M160S	1		
	R2121	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R2123,2124	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	2		
	R2125	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2126	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R2127	nsp	47-J,1/16W-1005REEL		C20004706M101S	1		
	R2128	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R2129	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2130	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R2132	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2133	nsp	47K-J 1/16W SMD(1005)*4 WA04X		C180473042100S	1		
	R2135	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2136	nsp	47K-J 1/16W SMD(1005)*4 WA04X		C180473042100S	1		
	R2139	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2140,2141	nsp	47K-J,1/16W-1005REEL		C20004736M101S	2		
	R2142	nsp	10-J 1/16W SMD(1005)*4 WA04X		C180100042100S	1		
	R2143,2144	nsp	2.2K-J,1/16W-1005REEL		C20002226M101S	2		
	R2145	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R2146	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R2147	nsp	10-J,1/16W-1005REEL		C20001006M101S	1		
	R2150	nsp	47K-J 1/16W SMD(1005)*4 WA04X		C180473042100S	1		
	R2151	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2156	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2159	nsp	1K-J,1/16W-1005REEL		C20001026M101S	1		
	R2162	nsp	47K-J,1/16W-1005REEL		C20004736M101S	1		
	R2163	nsp	4.7K-J,1/16W-1005REEL		C20004726M101S	1		
	R2164	nsp	4.7K-J 1/16W SMD(1005)*4 WA04X		C180472042100S	1		
	R2171	nsp	10K-J,1/16W-1005REEL		C20001036M111S	1		
	R2181	nsp	10K-J*4 1/16W SMD(1005) WA04		C180103042100S	1		
	R2182,2183	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	2		
	R2184	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	1		
	R2185	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	1		
	R2186	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	1		
	R2187,2188	nsp	33-J 1/16W SMD(1005)*4 WA04X		C180330042100S	2		
	R2189-2194	nsp	47-J 1/16W SMD(1005)*4 WA04X		C180470042100S	6		
	CAPACIITORS GROUP							
	C1000-1007	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	8		
	C1008-1010	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	3		
	C1015	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1030,1031	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1032	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1034,1035	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1042,1043	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1056,1057	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1067,1068	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1070	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1073-1076	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	4		
	C1077,1078	nsp	COG)10PF-J/50V-1608REEL		D010100167161S	2		
	C1079-1085	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	7		
	C1086	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1087	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1089,1090	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1091-1093	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	3		
	C1095	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1098	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1099-1109	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	11		
	C1113,1114	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1115	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1117,1118	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1120-1122	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1125,1126	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1127-1136	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	10		
	C1139,1140	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1141-1147	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	7		
	C1150,1151	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1152-1159	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	8		
	C1160,1161	nsp	COG)10PF-J/50V-1608REEL		D010100167161S	2		
	C1162	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1169	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1170	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1173	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1174	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1175-1177	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1179,1180	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1181	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1182,1183	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1184,1185	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	2		
	C1187,1188	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1189-1192	nsp	X5R)2.2UF-K/16V-1608REEL GRM188R61C225KE15D		D011225573160S	4		
	C1193,1194	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1196,1197	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1199,1200	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1201	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1202	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1203	nsp	X7R0.022UF-K/25V-1608REEL		D011223777160S	1		
	C1205-1210	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	6		
	C1213	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1216-1229	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	14		
	C1286,1287	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1288,1289	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	2		
	C1292-1297	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	6		
	C1298	nsp	X7R)0.1UF-K/16V-1005REEL	E2, E1C, JP, S910	D011104177101S	1		
	C1305-1310	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	6		
	C1317-1320	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	4		
	C1323	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1327	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1333	nsp	X7R)1000PF-K/50V-1005REEL	E3	D011102177101S	1		
	C1336,1337	nsp	COG)10PF-D/50V-1005REEL		D011100117101S	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C1338	nsp	X7R)1000PF-K/50V-1005REEL	E3	D011102177101S	1		
	C1340	nsp	X7R)0.1UF-K/16V-1005REEL	E3	D011104177101S	1		
	C1346	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1350-1355	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	6		
	C1357	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1358	nsp	X7R)220PF-K/50V-1005REEL		D011221177101S	1		
	C1359-1368	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	10		
	C1371,1372	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1380	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1385-1387	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1388	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1389,1390	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1391	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1392,1393	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1394,1395	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	2		
	C1396	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1429,1430	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	2		
	C1432	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1434	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1435	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1437	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1440	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1442	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1445	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1448	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1451	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1452	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1453	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1454	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1455	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1467	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1470	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1472	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1507	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1508-1513	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	6		
	C1514	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1515-1517	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	3		
	C1518-1522	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	5		
	C1523	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1524,1525	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1526	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1527,1528	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1529-1532	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	4		
	C1533	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1534	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1535	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1536	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1540	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1541	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1542	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1543	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1544	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1545	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1547	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1548	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1549	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1551	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1552	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1553	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1554	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1555	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1556-1561	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	6		
	C1562-1565	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	4		
	C1566	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1567	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1568	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1569	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1570	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1571	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1575	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1576	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1577	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1580	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1581	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1582	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1583	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1585	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1586	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1587	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1588	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1589	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1590-1592	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1593	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1594	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1595	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1596	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C1597	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1598,1599	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	2		
	C1600	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1602-1605	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	4		
	C1606	nsp	COG)15PF-G/50V-1005REEL GRM1555C1H150GA01D		D010150157100S	1		
	C1607	nsp	X7R 0.15uF-K/10V-1608REEL		D011154172160S	1		
	C1608	nsp	X7R)0.012UF-K/50V-1608REEL		D011123177161S	1		
	C1609	nsp	X7R 0.15uF-K/10V-1608REEL		D011154172160S	1		
	C1610	nsp	X7R)0.012UF-K/50V-1608REEL		D011123177161S	1		
	C1611	nsp	COG18PF-J/50V-1608REEL		D010180167160S	1		
	C1612	nsp	COG15PF-J/50V-1608REEL		D010150167160S	1		
	C1613	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1614	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1615	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C1616	nsp	COG)33PF-J/50V-1005REEL		D011330167101S	1		
	C1618	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1620	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1629-1644	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	16		
	C1645	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1654-1671	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	18		
	C1672	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1673	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1674	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1675	00D9630325402	470UF-MVG/6.3V,8.3*9.0*10 REEL (Z8158) SY		D050471081200S	1		
	C1676	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1677,1678	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1679	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C1680	963134501220S	470UF-M/6.3V,8*10 RVO-6V471MG10P2U-R2 ELNA		D050471081330S	1		
	C1682	nsp	COG)12PF-G/50V-1005REEL GRM1555C1H120GA01D		D010120157100S	1		
	C1683-1685	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1686	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1689	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1690	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1693	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1696	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1698	nsp	X5R)2.2UF-K/16V-1608REEL GRM188R61C225KE15D		D011225573160S	1		
	C1700	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1701	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1702	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1703	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1705	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1707	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1709,1710	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1714	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1717	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1718	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1720	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1723	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1729	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1730	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1732	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1735	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1738	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1739	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1741	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1744	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1746,1747	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1749	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1750	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1751,1752	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1754	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1756,1757	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	2		
	C1759,1760	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	2		
	C1763,1764	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	2		
	C1767	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1770	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1773-1775	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1777	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1779	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1784	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1786	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C1787	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1789	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1790	nsp	X5R)22UF-M/6.3V-2012REEL JMK212BJ226MG-T		D011226581203S	1		
	C1794,1795	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1797	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C1798-1802	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	5		
	C1804-1806	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C1807	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C1808,1809	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C1812	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1815,1816	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	2		
	C1817-1819	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	3		
	C1820	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1822	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1826-1828	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	3		
	C1852	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C1973,1974	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1979,1980	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C1989-1992	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	4		
	C1999,2000	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C2002-2011	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	10		
	C2012,2013	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C2018,2019	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C2024-2041	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	18		
	C2042-2044	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	3		
	C2045-2050	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	6		
	C2051	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C2052	nsp	COG)10PF-D/50V-1005REEL		D011100117101S	1		
	C2055	nsp	COG)10PF-D/50V-1005REEL		D011100117101S	1		
	C2056	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C2057	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2058	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	1		
	C2059	00D9630325305	47UF-MVG/6.3V,4*3*5.1*5.3 REEL (Z8155) SY		D050470081460S	1		
	C2060,2061	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2062	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	1		
	C2063	nsp	COG)12PF-G/50V-1005REEL GRM1555C1H120GA01D		D010120157100S	1		
	C2064	nsp	COG)15PF-G/50V-1005REEL GRM1555C1H150GA01D		D010150157100S	1		
	C2065	nsp	C0G)0.068UF-J/50V-3216REEL GRM31C5C1H683JA01L		D010683167300S	1		
	C2066	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2067	nsp	C0G)4700PF-J/50V-2012REEL GRM2165C1H472JA01D		D010472167200S	1		
	C2068,2069	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2070,2071	nsp	X7R)0.1UF-K/25V-1608REEL		D011104774161S	2		
	C2072,2073	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	2		
	C2074	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2076-2083	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	8		
	C2085	nsp	X7R)4.7UF-K/6.3V-1608REEL	E3, S910	D011475571160S	1		
	C2086	nsp	X7R)0.1UF-K/16V-1005REEL	E3, S910	D011104177101S	1		
	C2088	nsp	X7R)0.01UF-K/25V-1005REEL	E3, S910	D011103174101S	1		
	C2090-2097	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	8		
	C2100,2101	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	2		
	C2102	963134000450S	100UF-MVG/16V,6.6*7.2*5.7 REEL (Z8157) SY		D050101083660S	1		
	C2103,2104	00D9630325305	47UF-MVG/6.3V,4*3*5.1*5.3 REEL (Z8155) SY		D050470081460S	2		
	C2105	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY	E3, S910	D050100083470S	1		
	C2106	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2107-2109	00D9630325305	47UF-MVG/6.3V,4*3*5.1*5.3 REEL (Z8155) SY		D050470081460S	3		
	C2110,2111	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2112-2136	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	25		
	C2138	00D9630325305	47UF-MVG/6.3V,4*3*5.1*5.3 REEL (Z8155) SY		D050470081460S	1		
	C2143	nsp	X5R)10UF-K/16V-2012REEL GRM21BR61C106KE15L		D011106573200S	1		
	C2147	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2149	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	1		
	C2150	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C2154	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C2156	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2159,2160	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	2		
	C2161	nsp	X5R)2.2UF-K/16V-1608REEL GRM188R61C225KE15D		D011225573160S	1		
	C2163	13405013040AS	220UF-M/25V,8*11.5 KR3-025V221MF115-T/A5.0S KOSHIN		D040221084550S	1		
	C2165	963134000450S	100UF-MVG/16V,6.6*7.2*5.7 REEL (Z8157) SY		D050101083660S	1		
	C2168,2169	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C2174,2175	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2176	00D9630338606	10UF-MVG/16V,3.3*3.7*5.2 REEL (Z8154) SY		D050100083470S	1		
	C2177	nsp	X7R)2200PF-K/50V-1005REEL		D011222177101S	1		
	C2178,2179	nsp	X5R)2.2UF-M/6.3V-1005REEL		D011225581100S	2		
	C2181	nsp	X7R)2200PF-K/50V-1005REEL		D011222177101S	1		
	C2187-2192	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	6		
	C2193	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C2194-2200	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	7		
	C2201	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2202	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C2203-2208	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	6		
	C2209	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C2210	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2211,2212	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	2		
	C2213	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2214	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2215	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C2216	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2217	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C2218-2220	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C2221	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C2222	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2223	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C2224	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2225-2228	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	4		
	C2229	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2230	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C2231,2232	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C2234,2235	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2236,2237	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	2		
	C2240-2243	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	4		
	C2244-2246	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	3		
	C2247	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2248,2249	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	2		
	C2250,2251	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2252,2253	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	2		
	C2254	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2255	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2256,2257	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2258	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C2259-2261	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C2262-2268	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	7		
	C2269	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2271,2272	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2273,2274	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	2		
	C2275,2276	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	2		
	C2277-2280	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	4		
	C2281	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2282-2284	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C2285-2290	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	6		
	C2291	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2292	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2293	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C2294	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2295-2297	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C2298,2299	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	2		
	C2300	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2301-2303	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	3		
	C2304	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C2305	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2307	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2308	nsp	X7R)0.01UF-K/25V-1005REEL		D011103174101S	1		
	C2309	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	1		
	C2311,2312	nsp	X7R)4.7UF-K/6.3V-1608REEL		D011475571160S	2		
	C2320	nsp	X7R)0.1UF-K/25V-1608REEL		D011104774161S	1		
	C2322	nsp	COG18PF-J/50V-1608REEL		D010180167160S	1		
	C2323	nsp	COG15PF-J/50V-1608REEL		D010150167160S	1		
	C2325	nsp	X7R)1UF-K/10V-1608REEL		D011105772161S	1		
	C2327	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	C2340	nsp	X7R)1000PF-K/50V-1005REEL		D011102177101S	1		
	C2341	nsp	X7R)0.1UF-K/16V-1005REEL		D011104177101S	1		
	OTHER PARTS GROUP							
	BKT1000	nsp	AVRX2100WBKE3(DENON) SPTE t0.5 A4/SCREW L6.65		40102162860000S	1		
	CLP1001	nsp	HMX9800(ON)(HAITAI) (W=2.6,L=50)/WIRE(SOLDER)		4330000120000S	1		
	K1000,1001	00D9630244703	EARPHONE JACK PJ-308-02	E3	G40130802000YS	2		
	K1003	963643003580S	RCA-107C-02(OR)	E3, S910	G600107C0020YS	1		
	L1000	nsp	CB05YTYH221-2012REEL		D3402012922105	1		
	L1001	963115100670S	FBMJ3216HL160NT 16ohm SMD3216		D3403216616005	1	*	
	L1002-1005	nsp	CB05YTYH221-2012REEL		D3402012922105	4		
	L1006	963115100670S	FBMJ3216HL160NT 16ohm SMD3216		D3403216616005	1	*	
	L1007	nsp	CB05YTYH221-2012REEL		D3402012922105	1		
	L1008	963115100670S	FBMJ3216HL160NT 16ohm SMD3216		D3403216616005	1	*	
	L1009-1012	nsp	CB05YTYH221-2012REEL		D3402012922105	4		
	L1013	963115100670S	FBMJ3216HL160NT 16ohm SMD3216		D3403216616005	1	*	
	L1014	nsp	DLW21SN181SQ2L COMMON MODE CHOKE COILS SMD2012		D3112012118105	1		
	L1015	nsp	0-J,1/10W-2012REEL		C2000000602005	1		
	L1016	nsp	CB05YTYH221-2012REEL		D3402012922105	1		
	L1017,1018	nsp	DLW21SN900HQ2L COMMON MODE CHOKE COILS SMD2012		D3112012190005	2		
	L1019	nsp	CB05YTYH221-2012REEL		D3402012922105	1		
	L1027,1028	nsp	0-J,1/10W-2012REEL		C2000000602005	2		
	L1029,1030	nsp	CB05YTYH221-2012REEL		D3402012922105	2		
	L1034-1036	nsp	0-J,1/10W-2012REEL		C2000000602005	3		
	L1037	nsp	CB05YTYH221-2012REEL		D3402012922105	1		
	L1038	nsp	CB05YTYH101-2012REEL		D3402012910105	1	*	
	L1039-1049	nsp	CB05YTYH221-2012REEL		D3402012922105	11		
	L1051-1056	nsp	CB05YTYH221-2012REEL		D3402012922105	6		
	L1057	nsp	0-J,1/10W-2012REEL		C2000000602005	1		
	L1058	nsp	CB03YTYN121-1608REEL		D3401608912105	1		
	L1059-1081	nsp	0-J,1/10W-2012REEL		C2000000602005	23		
	L1082-1086	nsp	CB05YTYH221-2012REEL		D3402012922105	5		
	L1087,1088	963115100670S	FBMJ3216HL160NT 16ohm SMD3216		D3403216616005	2	*	
	L1089	nsp	CB03YTYN121-1608REEL		D3401608912105	1		
	L1090-1102	nsp	CB05YTYH221-2012REEL		D3402012922105	13		
	L1103-1114	nsp	0-J,1/10W-2012REEL		C2000000602005	12		
	L1115	nsp	CB05YTYH221-2012REEL		D3402012922105	1		
	L1119	nsp	EXC24CH900U 90OHM COMMON MODE SMD-REEL		D3111210890005	1		
	L1123	nsp	EXC24CH900U 90OHM COMMON MODE SMD-REEL		D3111210890005	1		
	L1124-1127	nsp	0-J,1/10W-2012REEL		C2000000602005	4		
	L1128-1130	nsp	CB05YTYH221-2012REEL		D3402012922105	3		
	L1136	nsp	0-J,1/10W-2012REEL		C2000000602005	1		
	L1137-1146	963115100680S	DG6045C DD1255AS-1R0N=P3 1UH POWER INDUCTOR		D3106045901005	10	*	
	N1000	nsp	1.0-16-23PB-2 23P ST SMT (JSY)		L1301001623305	1		
	N1001-1007	64401030161AS	A0D7ABAR1990 SMT HDMICON R/A W/FLANGE		L1091001907105	7		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	N1008	nsp	20010WS-06A00 DIP6P STRAIGHT		L101200100610S	1		
	N1009	nsp	1.0-16-7PB-2 7P ST SMT (JSY)		L130100160730S	1		
	N1010	963643102800S	RJ45-JACK(KRJ-015XXNL) KYD		G4060RJ450230S	1		
	N1014	nsp	1.25B-2-23Y 23P BtoB SOCKET(FEMALE) P=1.25MM		L109125422310S	1		
	N1016	nsp	1.25B-2-27Y 27P BtoB SOCKET(FEMALE) P=1.25MM		L109125422710S	1	*	
	N1017	nsp	1.0-15-40PB 40P VER SMT		L130100154030S	1		
	N1019	nsp	20010WS-07A00 DIP7P STRAIGHT		L101200100710S	1		
	N1020	nsp	1.25B-2-15Y 15P BtoB SOCKET(FEMALE) P=1.25MM		L109125421510S	1		
	N1026	64401030160AS	A0D7ABAR19N0 SMT HDMICON R/A W/O FLNG		L109100190720S	1		
	N1030,1031	64401030161AS	A0D7ABAR1990 SMT HDMICON R/A W/FLANGE		L109100190710S	2		
	N1033	nsp	YMW025-06R DIP ST		L102025060020S	1	*	
	N1038	nsp	1.0-16-23PB-2 23P ST SMT (JSY)		L130100162330S	1		
	N1039	nsp	1.25B-2-25Y 25P BtoB SOCKET(FEMALE) P=1.25MM		L109125422510S	1	*	
	X1000,1001	963141101180S	27.000MHz CL=7PF FA-238/SMD3225 EPSON		E80527R000050S	2		
	X1003	963141101160S	12.000MHz CL=8PF FA-238V/SMD3225 EPSON		E80512R000260S	1		
	X1006	963141101400S	27.000MHz CL=12PF FA-238/SMD3225 EPSON		E80527R000120S	1	*	
	X1007	963141101180S	27.000MHz CL=7PF FA-238/SMD3225 EPSON		E80527R000050S	1		
	X1008	963141100770S	24.576MHz CL=10PF FA-238/SMD3225 EPSON		E80524R576050S	1		
	X1009	963141101400S	27.000MHz CL=12PF FA-238/SMD3225 EPSON		E80527R000120S	1	*	
	X1010	963141100770S	24.576MHz CL=10PF FA-238/SMD3225 EPSON		E80524R576050S	1		
	★	nsp	AVRS900WBKE3 SPCC t0.8 Sn-Plating A4/HDMI FRONT		4010215996000S	1		

EXPLODED

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

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

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

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
	P13	9U6391021800S	HDMI PCB ASSY (S910W)	S910W	7025HK1404016	1	*	
	┗P1	┗	PCB FRONT HDMI ASSY		―	1	*	
	P13	9U6391021900S	HDMI PCB ASSY (X2200WE3)	E3	7025HK1403016	1	*	
	┗P1	┗	PCB FRONT HDMI ASSY		―	1	*	
	P13	9U6391022000S	HDMI PCB ASSY (X2200WE2)	E2	7025HK1403026	1	*	
	┗P1	┗	PCB FRONT HDMI ASSY		―	1	*	
	P13	9U6391022100S	HDMI PCB ASSY (X2200WE1C)	E1C	7025HK1403036	1	*	
	┗P1	┗	PCB FRONT HDMI ASSY		―	1	*	
	P13	9U6391022200S	HDMI PCB ASSY (X2200WK)	JP	7025HK1403046	1	*	
	┗P1	┗	PCB FRONT HDMI ASSY		―	1	*	
	P3	nsp	PCB FRONT ASSY		7025HK1403011	1	*	
	┣P4	┣	PCB FUNCTION ASSY		7025HK1403011	1	*	
	┣P5	┣	PCB CNT ASSY		7025HK1403011	1	*	
	┣P6	┣	PCB F/H_GUIDE ASSY		7025HK1403011	1	*	
	┣P14	┣	PCB RS232C ASSY		7025HK1403011	1	*	
	┗P18	┗	PCB TOP_GUIDE		7025HK1403011	1	*	
	P7	nsp	PCB AMP ASSY		7025HK1403015	1		
	P8	nsp	PCB SMPS ASSY		7025HK1403014	1	*	
	P9	nsp	PCB MAIN ASSY		7025HK1403010	1	*	
	┣P15	┣	PCB RS CNT ASSY		7025HK1403010	1	*	
	┣P17	┣	PCB GUIDE L		7025HK1403010	1	*	
	┗P12	┗	PCB AUDIO ASSY		7025HK1403010	1	*	
	P10	nsp	PCB INPUT ASSY		7025HK1403013	1	*	
	P11	nsp	PCB FRONT CNT ASSY		7025HK1403012	1	*	
	┗P19	┗	PCB VIDEO ASSY		7025HK1403012	1	*	
	P20	9R1891003003D	CY920 MODULE ASSY (7200WAE3)		―	1		
	1	963446100850S	PLATE SUB (E3/JP)	E3, JP	4477213091000S	1	*	
	1	963446100860S	PLATE SUB (E2/E1C)	E2, E1C	4477213091010S	1	*	
	1	963446100840S	PLATE SUB (S910W)	S910	4477213081000S	1	*	
	2	963412100730D	KNOB VOLUME		5080212641000S	1		
	3	963421100500D	AVRX2100WBKE3 GOLD(42131003300AD)/IN-COMMAND	E3	5630210878000S	1		
	4	963416101340D	WINDOW (E3/JP)	E3、JP	5077213333060S	1		
	4	963416101350D	WINDOW (E2/E1/E1C)	E2, E1C	5077213333070S	1		
	4	963416101330D	WINDOW (S900W)	S910	5077213333050S	1		
	5	963421100510D	BADGE	E3、JP	5630210838200S	1		
	5	42151002100AD	BADGE	E2/E1C/S910	56372108380000S			
	6	963402105450S	PANEL FRONT (X2200E3)	E3	3067216461000S	1	*	
	6	963402105460S	PANEL FRONT (E2/E1C)	E2, E1C	3067216451010S	1	*	
	6	963402105440S	PANEL FRONT (S910W)	S910	3067216451000S	1	*	
	6	963402105470S	PANEL FRONT (JP)	JP	3067216451020S	1	*	
	7	963402103910D	BUTTON BK/POWER		5098215301000SZ	1		
	8	963423100500D	BUTTON STANDBY		3710211283100S	1		
	9	963411103160D	BUTTON 10KEY		5090215381000S	1		
	11	nsp	PLATE		4470212696000SV	1	*	
	12	nsp	CHASSIS		32002152360000S	1	*	
!	13	963101102340D	POWER TRANS (E3)	E3, S910	8200960611610S	1		
!	13	963101102350D	POWER TRANS (E2/E1)	E2	8200960611620S	1		
!	13	963101102360D	POWER TRANS (E1C)	E1C	8200960611630S	1		
!	13	963101102370D	POWER TRANS (JP)	JP	8200960611640S	1		
	14	nsp	SUPPORTER		40700016010205	2	*	
	15	00D9630214607	CUSHION		4050211295000S	4		
	16	963407100200D	FOOT	E3, E1C, JP, S910	4000210261000SV4(	4		
	16	963407100420D	FOOT	E2	40002108310005	4		
	17	nsp	CHASSIS	E3	32072151961005	1	*	
	17	nsp	CHASSIS	E2	32072151962005	1	*	
	17	nsp	CHASSIS	E1C	32072151963105	1	*	
	17	nsp	CHASSIS	JP	32072151963005	1	*	
	17	nsp	CHASSIS	S910	32072151960005	1	*	
	18	nsp	CORD HOLDER DACH-1	E1C, JP, S910	43800401620105	1		
!	18-1	963611500410S	6A/250V RVV 2*0.75MMSQ 2M KE-51 CHI 60227 WH-STRAP	E1C	L0682500600705	1		
!	18-1	963611500570D	7A/125V VCTFK2 1.7M SP-18B PSE WH-STRAP	JP	L0681250718905	1		
!	18-1	00D9630292205	10A/125V NISPT-2 18AWG*2C 2M KE-01P WH-STRAP	S910	L0681251003205	1		
	20	nsp	HEAT SINK		2120212398000S	1	*	
	21	nsp	BRACKET		40100569060105	5		
	22	nsp	BRACKET		401021488600DS	1		
	23	963403110100D	CABINET	BJP	30072121660005	1		
	24	963412101090D	KNOB		5080212631000S	1		
	25	nsp	CUSHION		4050214795000S	2		
	26	nsp	SHEET		1210211909000S	1		
	27	nsp	CUSHION		4050213025000S	3		
	28	nsp	LABEL	E3	55070000192305	2	*	
	28	nsp	AVR-X2200(BKE2) POP LABEL -SET- (REMOVABLE)	E2	55070000190605	1	*	
	28	nsp	AVR-X2200(BKE1C) POP LABEL -SET- (REMOVABLE)	E1C	55070000190705	1	*	
	28	nsp	AVR-X2200(BKK) POP LABEL -SET- (REMOVABLE)	JP	55070000190805	1	*	
	28	nsp	AVR-S910(BKE3) POP LABEL -SET- (REMOVABLE)	S910	55070000190305	1	*	
	29	nsp	TAPE		12202114590005	2		
	30	963451101130D	SHEET		1210211919000S	1		
	31-1	nsp	TAPE		A710000270000S	0.3		
	31-2	nsp	TAPE		A710000280000S	0.1		
	32	963451101140D	SHEET		1210211939000S121	1		
	34	nsp	SPRING		372021056600DS	2		
	35	963411103170D	AVRS900WBKE3(DENON) SPIN ABS BK A3/5KEY	S910	50902153710005	1		
	36	963411103180D	AVRS900WBKE3(DENON) SPIN ABS BK A3/4KEY	S910	5090215361000S	1		
	37	nsp	SHEET		12172123490005	1		
	38	963419100910S	BUSHING		24102101610005	2		
	39	963419100920S	HOLDER		4320211391000S	2		
	40	963419100930S	SUPPORTER		40702123010005	2		
	41-1	963116100530S	ANTENNA,ROD		E600506600010S	1		
	41-2	963116100540S	ANTENNA,ROD		E600505600010S	1		
	43	nsp	CUSHION		4050215325000S	1		
	★	963606501980S	CABLE,FLAT CARD SHIELD 1.0MM		N713232312480S	1		
	★	963606502780S	CABLE,FLAT CARD SHIELD 1.0MM		N713401512480S	1	*	
	SEMICONDUCTORS GROUP							
	A1-Q404	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
	A2-Q440	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
	A3-Q428	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
	A4-Q452	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
	A5-Q416	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
	A6-Q464	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
	A7-Q476	00D9960018706	TR NPN 2SD2390-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5032390Y0000S	1		
	B1-Q409	963219003340S	KTC3964/TO126S-BULK		J5023964000105	1		
	B2-Q445	963219003340S	KTC3964/TO126S-BULK		J5023964000105	1		
	B3-Q433	963219003340S	KTC3964/TO126S-BULK		J5023964000105	1		
	B4-Q457	963219003340S	KTC3964/TO126S-BULK		J5023964000105	1		
	B5-Q421	963219003340S	KTC3964/TO126S-BULK		J5023964000105	1		
	B6-Q469	963219003340S	KTC3964/TO126S-BULK		J5023964000105	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	B7-Q481	963219003340S	KTC3964/TO126S-BULK		J5023964000010S	1		
	C1-Q410	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
	C2-Q446	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
	C3-Q434	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
	C4-Q458	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
	C5-Q422	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
	C6-Q470	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
	C7-Q482	00D9960018706	TR PNP 2SB1560-Y (2SD2390-Y and 2SB1560-Y is one pair parts.)		J5011560Y0000S	1		
	SCREW GROUP							
	A	nsp	SCREW,TAP TITE		B020030081B10SV	61	*	
	B	nsp	SCREW,TAP TITE		B020030061B10SV	4	*	
	D	nsp	SCREW,TAP TITE		B020230063B10SV	8	*	
	G	nsp	SCREW,TAP TITE ASSY		B028940101B11SV	4	*	
	H	nsp	SCREW,TAPPING ASSY		B018230141H11SV	21	*	
	I	nsp	SCREW,TAP TITE		B020030171B10SV	2	*	
	J	nsp	SCREW	E3, E2	1500040083B10SV	8	*	
	J	nsp	SCREW	E1C, JP, S910	1500040083B10SV	6	*	
	K	nsp	SCREW,TAP TITE	E3, S910	B020030103B11SV	28	*	
	K	nsp	SCREW,TAP TITE	E2, E1C, JP	B020030103B11SV	23	*	
	L	nsp	SCREW,TAP TITE	E3	B020030043B10SV	12	*	
	L	nsp	SCREW,TAP TITE	E2, JP	B020030043B10SV	13	*	
	L	nsp	SCREW,TAP TITE	E1C, S910	B020030043B10SV	14	*	
	M	nsp	SCREW		1500001206010SV	2	*	

PACKING

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

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

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

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

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	1	nsp	SET		-	1		
	2	nsp	PE,SHEET		6327040059000S	1		
	3	30701016900AD	REMOCON (RC-1192)		8300119201010S	1		
	4	963533103020S	CUSHION SNOW (F/TOP)		6230214004000S	1	*	
	4	963533103030S	CUSHION SNOW (F/BTTM)		6230214014000S	1	*	
	4	963533103040S	CUSHION SNOW (R/TOP)		6230214024000S	1	*	
	4	963533103050S	CUSHION SNOW (R/BTTM)		6230214034000S	1	*	
	5	nsp	BATTERY,DRY		G670001R50242S	2		
	6	32401000800AD	MIC CONDENSER		M040000310080S	1		
	7	963531105070S	BOX GIFT AVR-X2200W(E3)	E3	6007212990010S	1	*	
	7	963531105080S	BOX GIFT AVR-X2200W(E2)	E2	6007212990020S	1	*	
	7	963531105090S	BOX GIFT AVR-X2200W(E1C)	E1C	6007212990040S	1	*	
	7	963531105100S	BOX GIFT AVR-X2200W(K)	JP	6007212990030S	1	*	
	7	963531105060S	BOX GIFT AVR-S910W(E3)	S910	6007212990000S	1	*	
	8	nsp	LABEL	E3	5507000019100S	1	*	
	8	nsp	LABEL	E2	5507000019110S	1	*	
	8	nsp	LABEL	E1C	5507000019120S	1	*	
	8	nsp	LABEL	JP	5507000019130S	1	*	
	8	nsp	LABEL	S910	5507000019090S	1	*	
	9	nsp	DENON(SPE1C) WARRANTY CARD china 54311016120AD	E1C	5727000000440S	1	*	
	9	nsp	DENON JP WARRANY Consumers visit (54311004930AD)	JP	5727000002010S	1	*	
	10	nsp	TAPE		1220210772000S	1.5		
	12	963549101000D	MIC STAND ASSY		4148210170000S	1		
	13	nsp	LABEL		5507000019510S	1	*	
!	14	963611501070S	AC CORD X2200WE3	E3	L068125130220S	1	*	
!	14	90M-ZC000600R	AC CORD X2200WE2	E2	L068250160120S	1		
	15	nsp	NYLON(BK)/TERMINAL	E2, E1C	2410040353010S	1		
	★	nsp	Pass CARD _ CHINA	E1C	5777000000290S	1	*	
A4 SIZE POLYBAG ASSY								
	A4-1	54311043800AD	AVR-S910/X2200(ALL) Notes on RADIO Sheet (A3)		52270000003560S	1	*	
	A4-2	nsp	AVR-S910/X2200(E3) Safety Instruction (A3)	E3, S910	52270000003550S	1	*	
	A4-2	nsp	AVR-X2200(E2) Safety Instruction (A3)	E2	52270000003570S		*	
	A4-2	nsp	AVR-X2200(E1C) Safety Instruction (A3)	E1C	52270000003580S		*	
	A4-2	nsp	AVR-X2200(K) Safety Instruction (A3)	JP	52270000003590S		*	
	A4-3	nsp	WARRANTY CARD	E3, S910	57270000003040S	1	*	
	A4-3	nsp	SHEET	E3, S910	52270000008660S	1	*	
	A4-4	963544104550S	SPEAKER WIRE LABEL		5507000018970S	1	*	
	A4-5	963116100550S	ANTENNA,WIRE		E6050101400500S	1		
	A4-6	963116100560S	ANTENNA,LOOP		E6010190000500S	1		
	A4-7	nsp	SGLBF-6B ANT DUAL TUNER ISOLATOR BLACK	E1C	L1702000600100S	1		
A5 SIZE POLYBAG ASSY								
	A5-1	35201038301AD	INST. MANUAL (E2 CD-ROM)	E2	65170000002200S	1	*	
	A5-1	35201038302AD	INST. MANUAL (E1C CD-ROM)	E1C	65170000002210S	1	*	
	A5-1	35201038303AD	INST. MANUAL (JP CD-ROM)	JP	65170000002220S	1	*	
	A5-2	54111126400AD	QUICK START GUIDE X2200WE3	E3	57070000010090S	1	*	
	A5-2	54111126401AD	QUICK START GUIDE E2	E2	57070000010100S	1	*	
	A5-2	54111126402AD	QUICK START GUIDE E1C	E1C	57070000010110S	1	*	
	A5-2	54111126403AD	QUICK START GUIDE JP	JP	57070000010120S	1	*	
	A5-2	54111127500AD	QUICK START GUIDE S910WE3	S910	57070000010080S	1	*	