DENON

Ver. 3

Please refer to the MODIFICATION NOTICE.

SERVICE MANUAL

MODEL	JP	E3	E2	EK	EA	E1	E1C	E1K
AVR-X1100W	✓	✓	✓			✓	✓	
AVR-S700W		✓						

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.

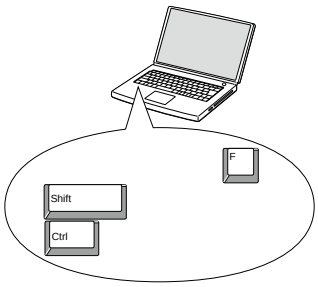
What you can do with this manual

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.

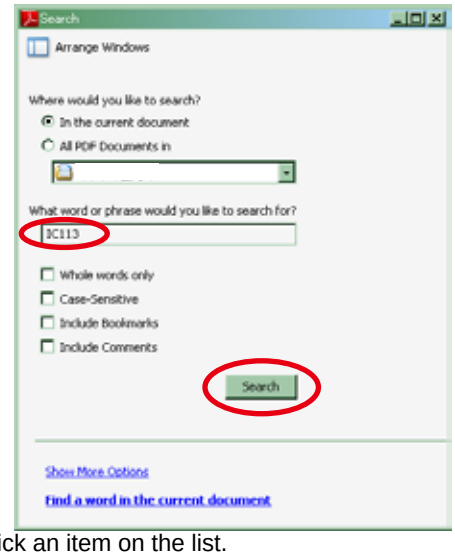
1.Press **Ctrl+Shift+F** on the keyboard.

- 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.



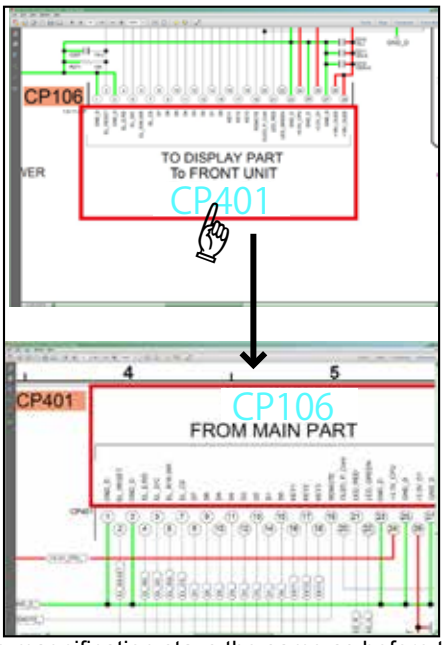
3.Click an item on the list.

• 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.

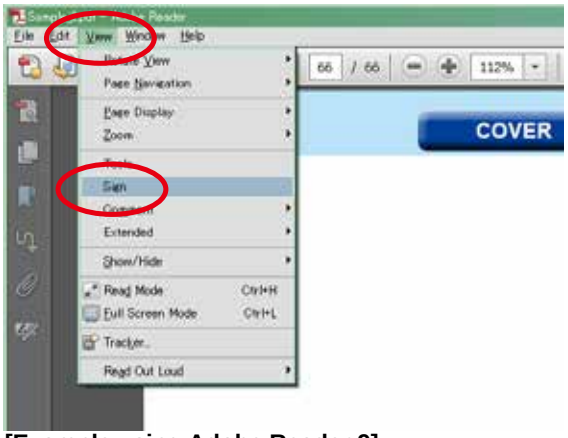
Using Adobe Reader (Windows version)

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.



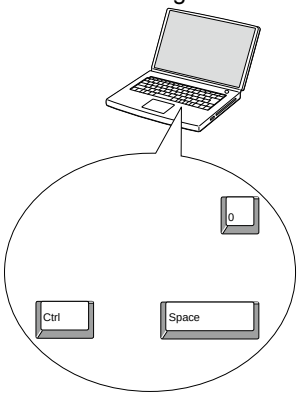
[Example using Adobe Reader 9]
On the **"Document"** menu, click **"Sign"**.

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.

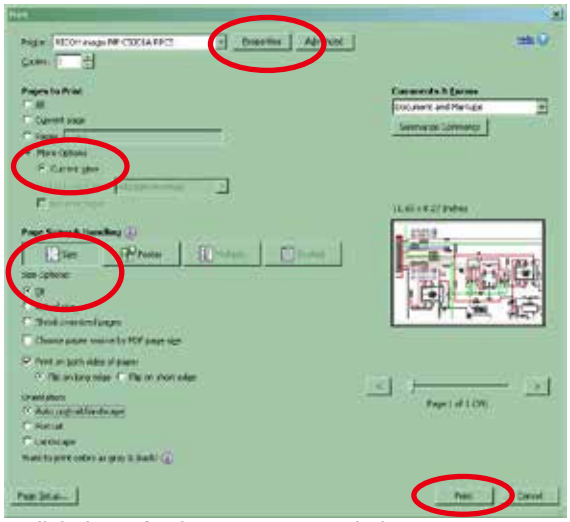


- When you want to move the area shown, hold down **Space** and drag the mouse.
- When you want to show a full page view, press **Ctrl+0** on the keyboard.

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**"

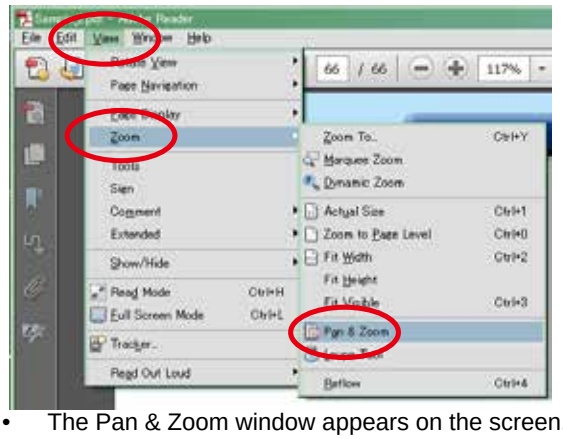
4. Click the **Print** button to start printing.

Magnify schematic / printed circuit board diagrams - 2

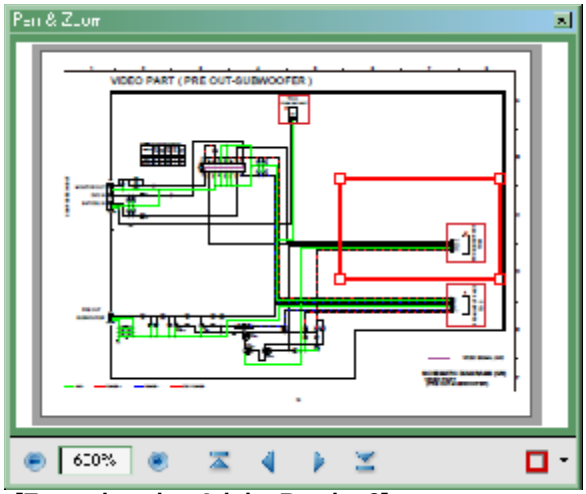
(Pan & Zoom function)

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.



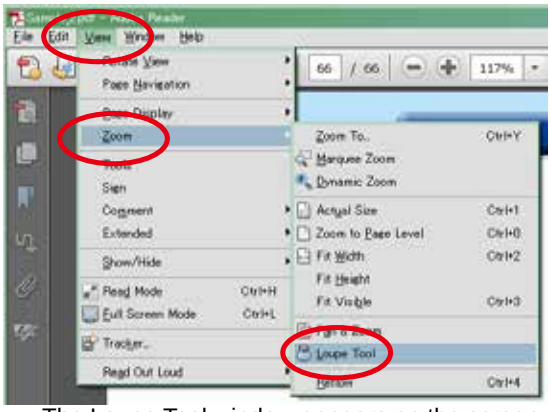
[Example using Adobe Reader 9]
On the **"Tools"** menu, point to **"Select & Zoom"**, and then click **"Pan & Zoom Window"**.

Magnify schematic / printed circuit board diagrams - 3

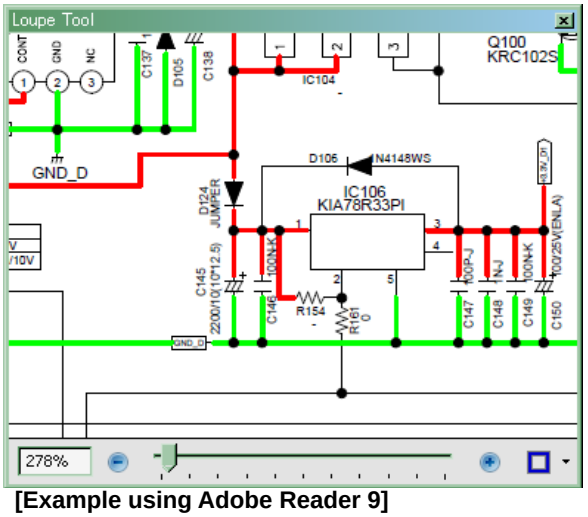
(Loupe Tool function)

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

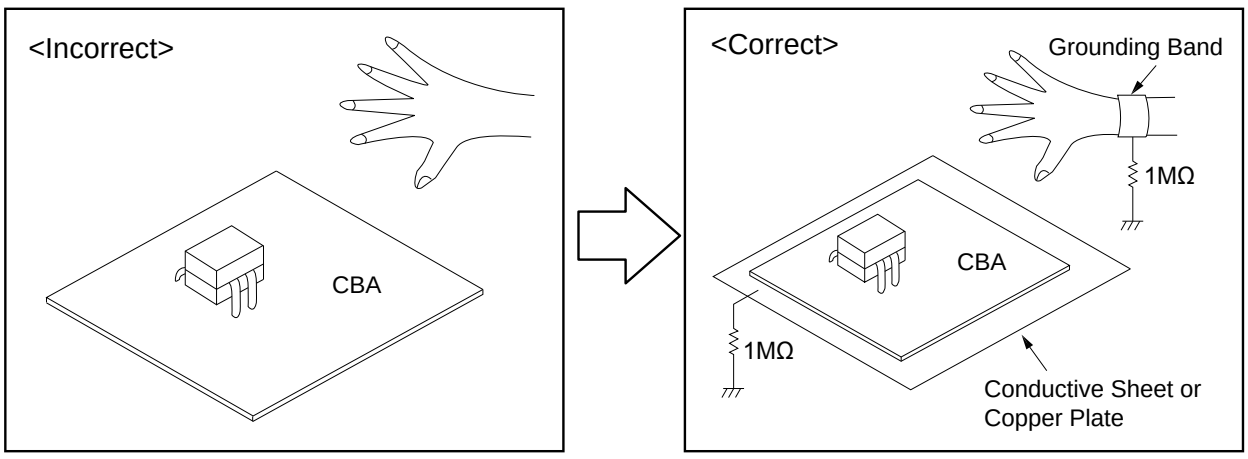
1. Parts indicated by **"nsp"** on this table cannot be supplied.
2. When ordering a part, make a clear distinction between "1" and "I" (i) to avoid mis-supplying.
3. A part ordered without specifying its part number can not be supplied.
4. Part indicated by " ★ " mark is not illustrated in the exploded 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-X1100W

❑ Audio section

- **Power amplifier**

Rated output :

Front :

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

Center :

80W（8Ω、20Hz～20kHz with 0.05% T.H.D.）
120W（6Ω、1 kHz with 0.7 % T.H.D.）

Surround :

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

Surround back:

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

Output connectors : 4～16Ω

❑ Analog section

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

❑ Video section

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

❑ Tuner section

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

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

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

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

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

❑ Wireless LAN section

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

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

Radio frequency : 2.4 GHz

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

∗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/10m 2 in line of sight

Frequency band : 2.4 GHz band

Modulation scheme : FHSS (Frequency-Hopping Spread Spectrum)

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

Corresponding codec : SBC, AAC

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

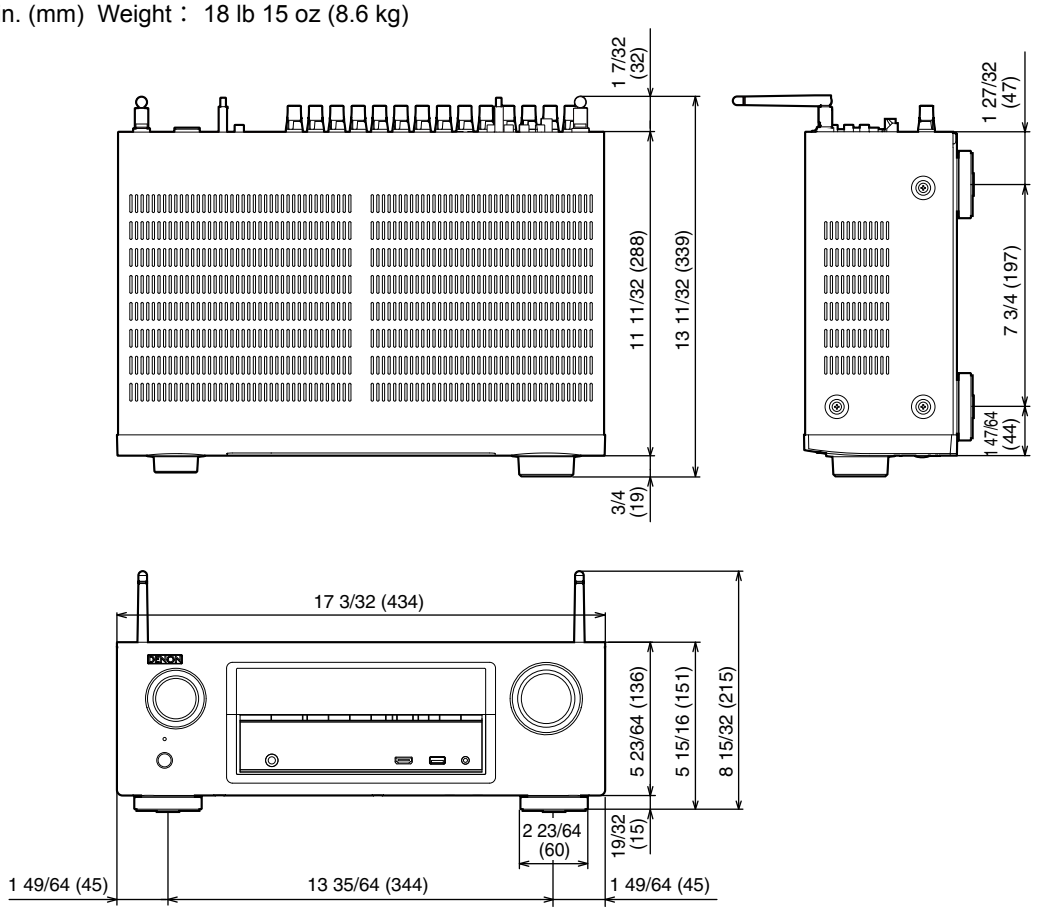
❑ General

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

Power consumption : 430W
Power consumption in standby mode : 0.1W
Power consumption in CEC standby mode : 0.5W
Power consumption in network standby mode : 2.7W

DIMENSION FOR AVR-X1100W

Unit： Unit : in. (mm) Weight： 18 lb 15 oz (8.6 kg)



TECHNICAL SPECIFICATIONS FOR AVR-S700W

❑ Audio section

- **Power amplifier**

Rated output :

Front :
75W+75W（8Ω、20Hz～20kHz with 0.08% T.H.D.）
110W+110W（6Ω、1kHz with 0.7% T.H.D）

Center :
75W（8Ω、20Hz～20kHz with 0.05% T.H.D.）
110W（6Ω、1 kHz with 0.7 % T.H.D.)

Surround :
75W+75W（8Ω、20 Hz – 20 kHz with 0.08% T.H.D.)
110W+110W（6Ω、1 kHz with 0.7 % T.H.D.)

Surround back:
75W+75W（8Ω、20 Hz – 20 kHz with 0.08% T.H.D.)
110W+110W（6Ω、1 kHz with 0.7 % T.H.D.)

Output connectors : 4～16Ω

❑ Analog section

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

❑ Video section

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

❑ Tuner section

Reception frequency range : **FM** 87.5 MHz – 107.9 MHz
AM 520 kHz – 1710 kHz
Effective sensitivity : **FM** 1.2 μV（12.8dBf）
AM 18 μV
50 dB sensitivity : MONO — 2.8 μV (20.2 dBf)
S/N: MONO — 70 dB (IHF–A weighted, Direct mode)
STEREO — 67 dB (IHF–A weighted, Direct mode)
Distortion : MONO — 0.7 % (1 kHz)
SRETEO — 1.0 % (1 kHz)

❑ Wireless LAN section

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

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

Radio frequency : 2.4 GHz

No. of channels : 1 – 11 ch

∗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/10m 2 in line of sight

Frequency band : 2.4 GHz band

Modulation scheme : FHSS (Frequency-Hopping Spread Spectrum)

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

Corresponding codec : SBC, AAC

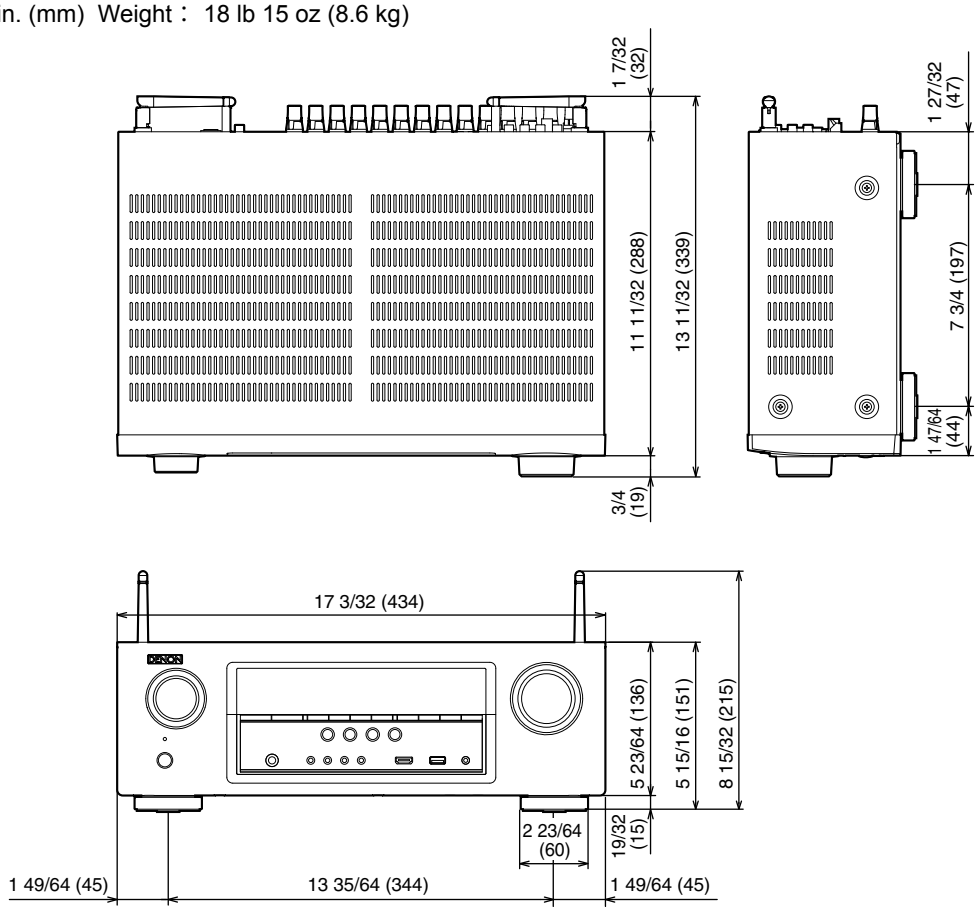
Transmission range (A2DP) : 20 Hz - 20,000 Hz

❑ General

Power supply : (for E3) : AC 120 V, 60 Hz
Power consumption : 400W
Power consumption in standby mode : 0.1W
Power consumption in CEC standby mode : 0.5W
Power consumption in network standby mode : 2.7W

DIMENSION FOR AVR-S700W

Unit： Unit : in. (mm) Weight： 18 lb 15 oz (8.6 kg)



PRECAUTIONS DURING SERVICE

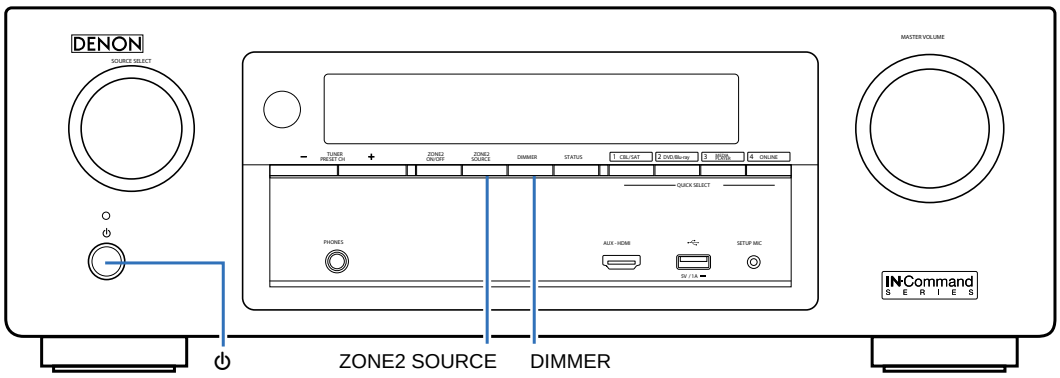
Initializing This Unit

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

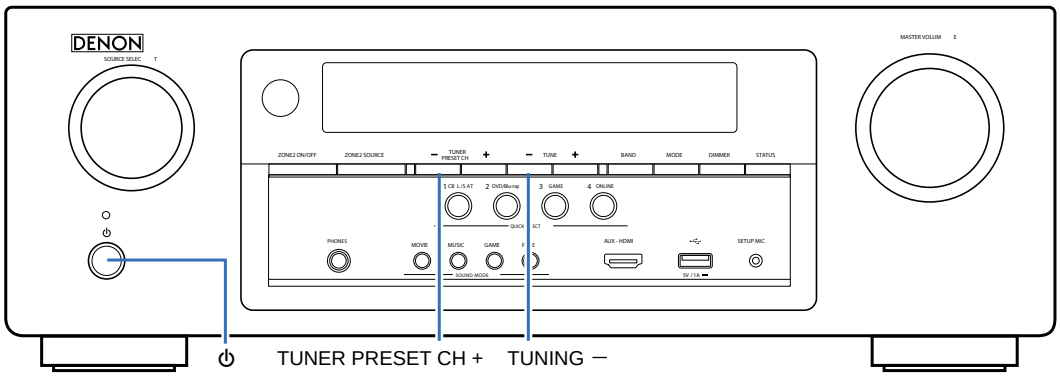
1. Press the power button to turn off the power.
2. AVR-X1100W
   Hold down buttons "**ZONE2 SOURCE**" and "**DIMMER**" at the same time and press the power button to turn on the power.
   AVR-S700W
   Hold down buttons **TUNER PRESET CH +** and "**TUNE -**" at the same time and press the power button to turn on the power.
3. Release the buttons after confirming that the display flashes in intervals of approximately 1 second.
   ∗ The unit is initialized.

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

AVR-X1100W



AVR-S700W

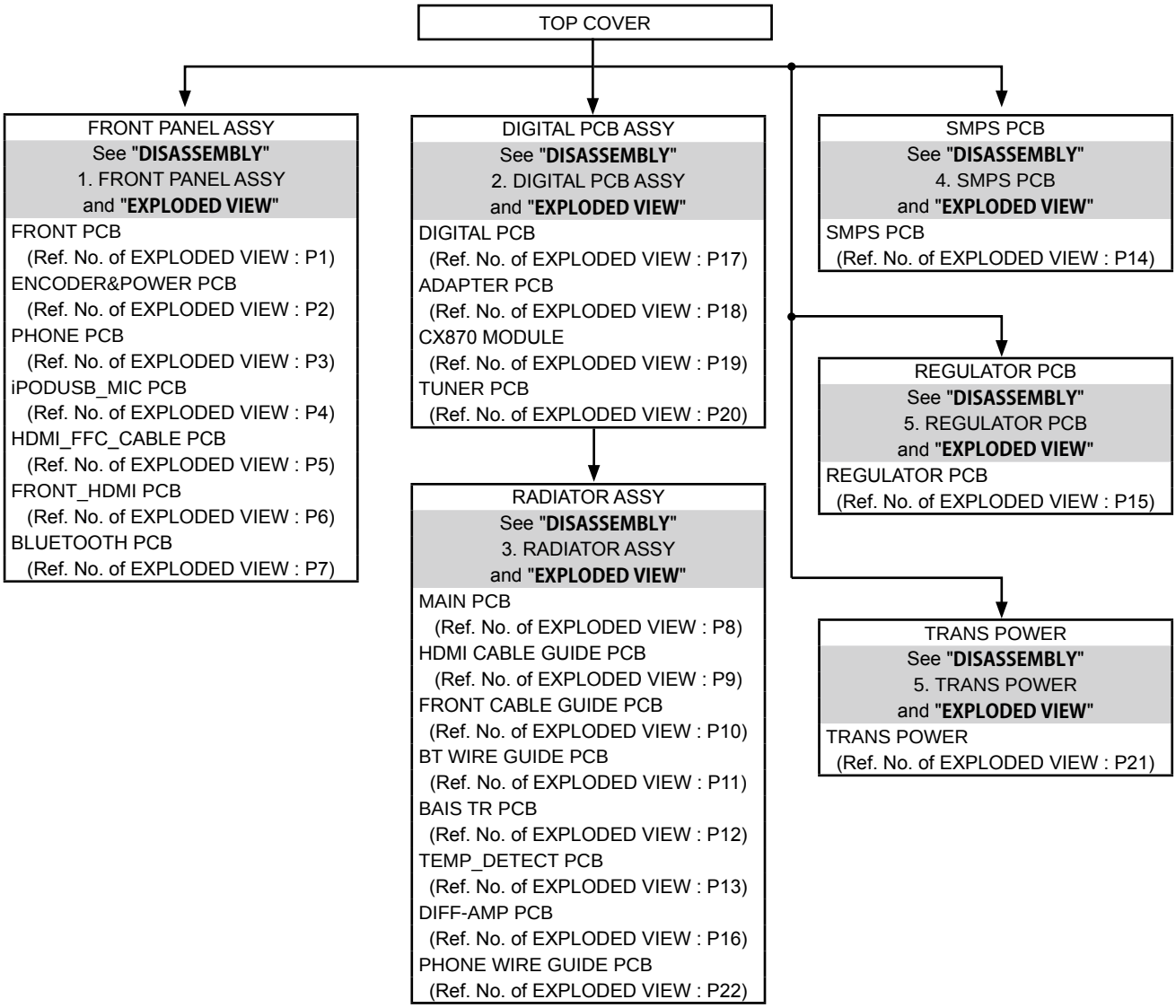


Service Jigs

The following jigs (extension cable kit) are used when repairing the PCB.
Order the jigs from your dealer if necessary.
8U- 110084S : EXTENSION UNIT KIT : 1 Set
(See 52 page)

DISASSEMBLY

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

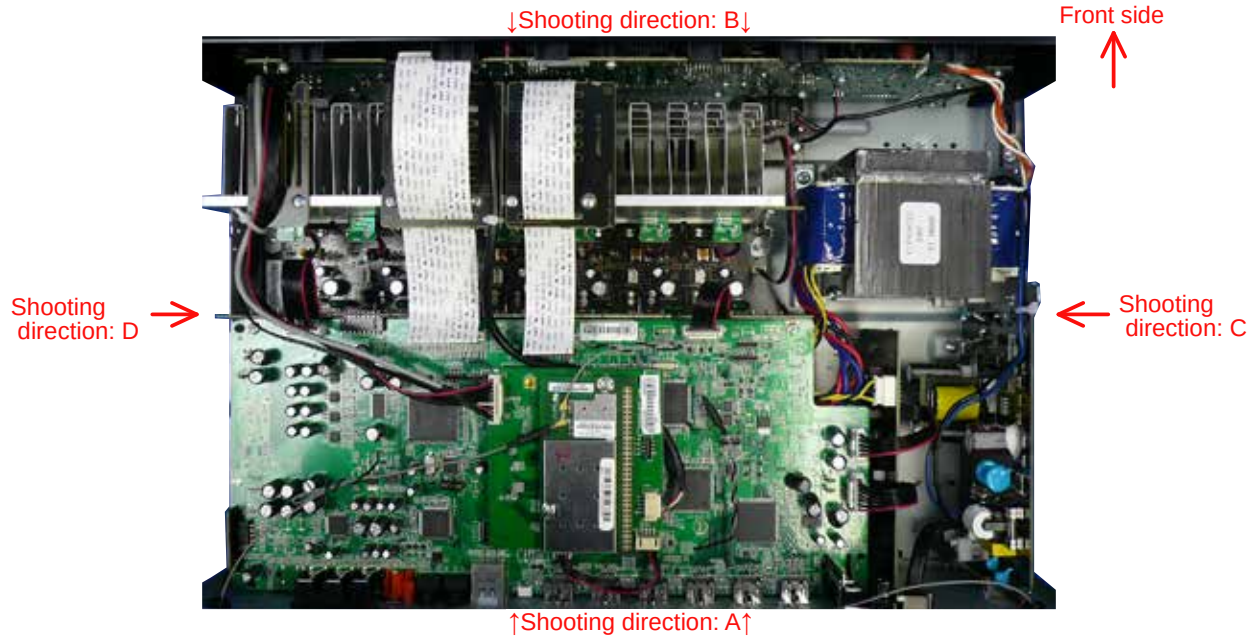


Explanatory Photos for DISASSEMBLY

- The angles from which the photos are taken are shown by "**Photo angle: A, B, C, D**".
- See the diagram below about the shooting direction of each photograph.
- Photographs with no shooting direction indicated were taken from the top of the unit.
- The photograph is AVR-S700E3 model.

The viewpoint of each photograph

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

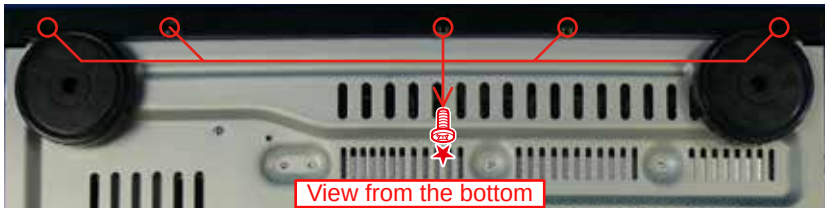


Caution:	**・Before disassembling this unit, be sure to discharge the power line (the colored line in the schematic diagram).** **・FFC cables with one end disconnected should be insulated by using tapes, etc.**

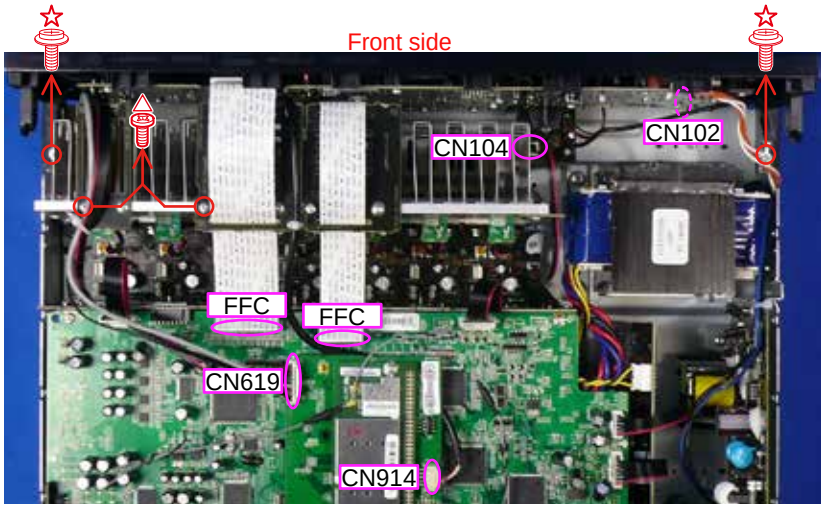
1. FRONT PANEL ASSY

Proceeding : TOP COVER → FRONT PANEL ASSY

(1) Remove the screws.



(2) Remove the connector wire and FFC. Remove the screws.



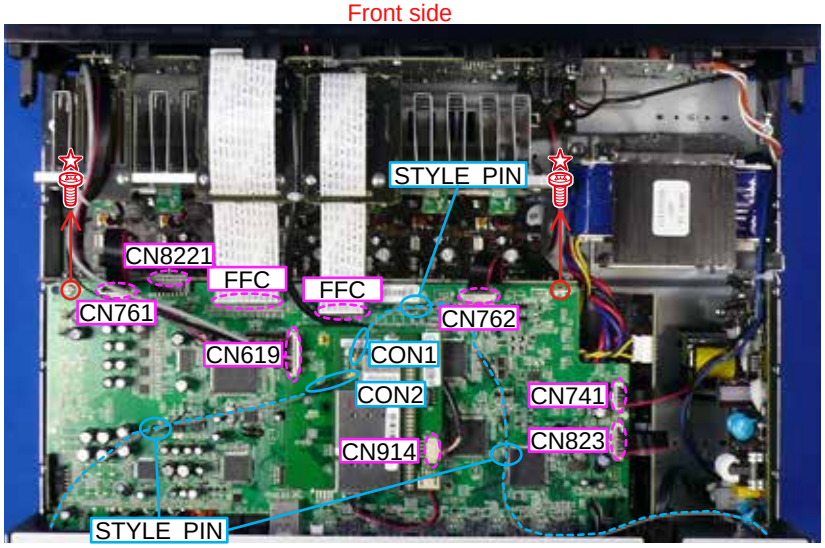
2. DIGITAL PCB

Proceeding : TOP COVER → DIGITAL PCB

(1) Remove the screws.

(2) Remove the connector wire and FFC. Remove the screws.

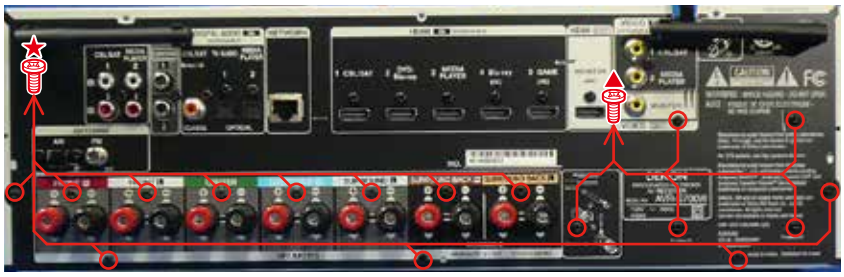
Front side



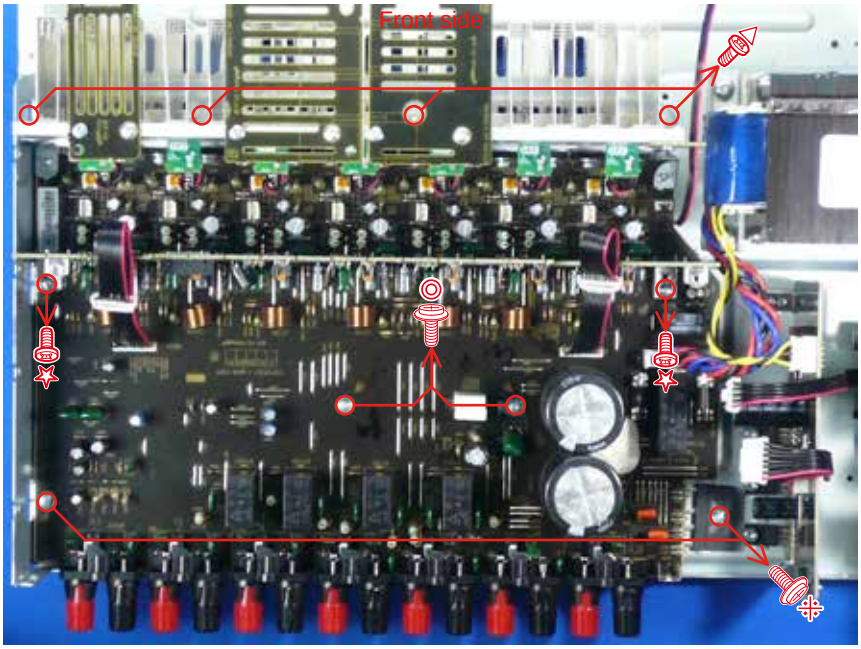
3. RADIATOR ASSY

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

(1) Remove the screws.



(2) Remove the screws.



4. SMPS PCB

Proceeding : TOP COVER → **SMPS PCB**

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

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

5. REGULATOR PCB

Proceeding : TOP COVER → **REGULATOR PCB**

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

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

6. TRANS POWER

Proceeding : TOP COVER → **TRANS POWER**

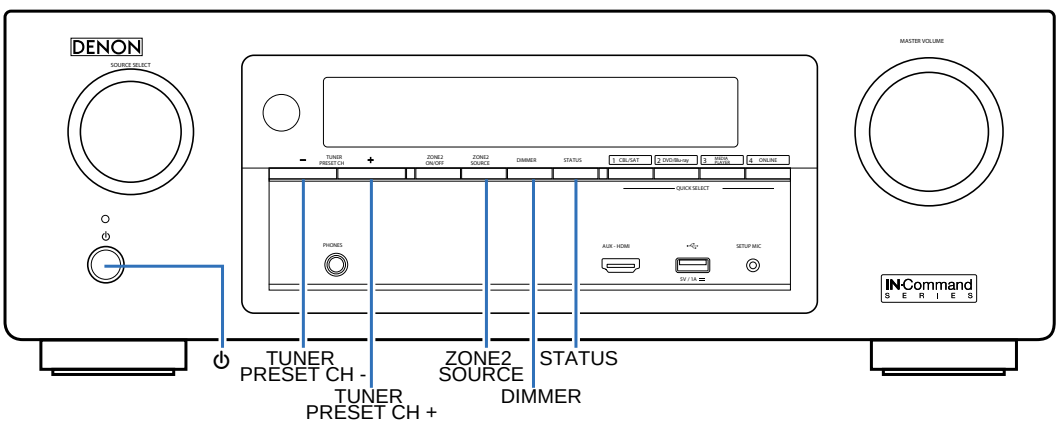
See "EXPLODED VIEW" for instructions on how to remove each PCB of the "**TRANS POWER**".

SPECIAL MODE

Special Mode Configuration Buttons (for AVR-X1100W)

※ No. 1 - 13 : Hold down buttons A, B and C at the same time and press the power button to turn on the power.
※ No. 14 : Press the A and B buttons simultaneously while inserting the AC plug to turn the power on.

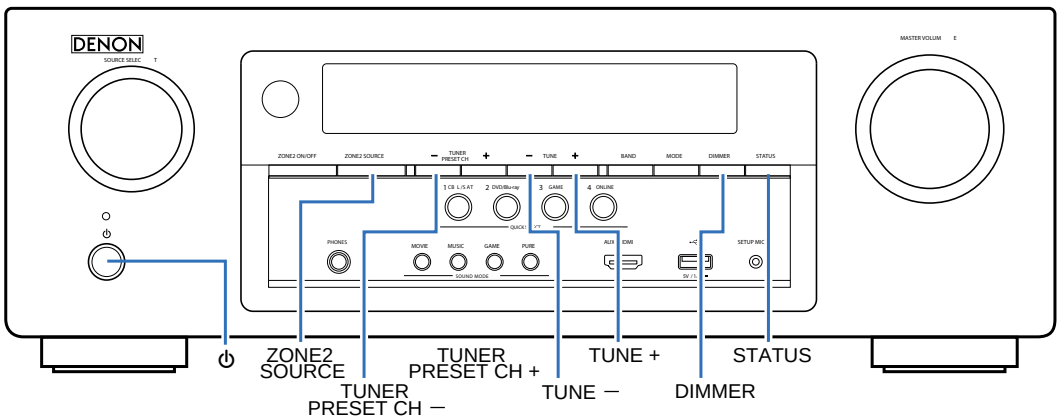
No.	Mode	Button A	Button B	Button C	Contents
1	Version Display (u-COM / DSP Error Display)	DIMMER	STATUS	–	Displays the version of firmware such as the main firmware or DSP, etc. Errors that have occurred are displayed. (See 18 page)
2	Protection History Display Mode	ZONE2 SOURCE	DIMMER	STATUS	Displays the protection occurrence history. (See 45 page)
3	Check the Video/Audio pass Mode	↑	↑	↑	This is a special mode for service confirmation used during repair work to simplify the confirmation work for the Audio channel/video channel. (See 25 page)
4	Remote ID Setup Mode	↑	↑	↑	If there are multiple DENON AV receivers in the same area, this mode stops the other AV receivers from being operated concurrently with this device. (See 49 page)
5	TUNER step	↑	↑	↑	Enables reception STEP of the ANALOG TUNER to be changed. (See 48 page)
6	Operation INFO	↑	↑	↑	Displays the total operating time of the set, number of times the power was switched on, and number of occurrences of each protection. (See 47 page)
7	User Initialization mode (Settings for the Installer Setup are not initialized.)	TUNER PRESET CH -	TUNER PRESET CH +	-	Initializes backup data. (Settings for the Installer Setup are not initialized.)
8	Factory Initialization mode (Initialization includes settings for the Installer Setup.)	ZONE2 SOURCE	DIMMER	-	Initializes backup data. (Initialization includes settings for the Installer Setup.)
9	Mode for preventing remote control acceptance	TUNER PRESET CH +	ZONE2 SOURCE	-	Start this unit in the PANEL/REMOTE LOCK selection mode so that PANEL LOCK and Remote Lock can be selected as ON or OFF. (See 22 page)
10	PANEL LOCK mode (with Volume)	↑	↑	-	This function prevents reception of all keys/encoders (including VOLUME) other than the power supply button on the Front Panel.
11	PANEL LOCK mode (without Volume)	↑	↑	-	This function prevents reception of all keys/encoders other than the power supply button and VOLUME encoder on the Front Panel.
12	Panel Lock Release	↑	↑	-	Function for Releasing the PANEL LOCK
13	Protection pass mode	TUNER PRESET CH +	ZONE2 SOURCE	STATUS	Enables the power to be turned on when protection detection is in the stopped state. (See 50 page)
14	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 56 page)



Special Mode Configuration Buttons (for AVR-S700W)

※ No. 1 - 13 : Hold down buttons A, B and C at the same time and press the power button to turn on the power.
※ No. 14 : Press the A and B buttons simultaneously while inserting the AC plug to turn the power on.

No.	Mode	Button A	Button B	Button C	Contents
1	Version Display (u-COM / DSP Error Display)	DIMMER	STATUS	–	Displays the version of firmware such as the main firmware or DSP, etc. Errors that have occurred are displayed. (See 18 page)
2	Protection History Display Mode	TUNER PRESET CH +	TUNE -	TUNE +	Displays the protection occurrence history. (See 45 page)
3	Check the Video/Audio pass Mode	↑	↑	↑	This is a special mode for service confirmation used during repair work to simplify the confirmation work for the Audio channel/video channel. (See 25 page)
4	Remote ID Setup Mode	↑	↑	↑	If there are multiple DENON AV receivers in the same area, this mode stops the other AV receivers from being operated concurrently with this device. (See 49 page)
5	TUNER step	↑	↑	↑	Enables reception STEP of the ANALOG TUNER to be changed. (See 48 page)
6	Operation INFO	↑	↑	↑	Displays the total operating time of the set, number of times the power was switched on, and number of occurrences of each protection. (See 47 page)
7	User Initialization mode (Settings for the Installer Setup are not initialized.)	TUNER PRESET CH -	TUNER PRESET CH +	-	Initializes backup data. (Settings for the Installer Setup are not initialized.)
8	Factory Initialization mode (Initialization includes settings for the Installer Setup.)	TUNER PRESET CH +	TUNE -	-	Initializes backup data. (Initialization includes settings for the Installer Setup.)
9	Mode for preventing remote control acceptance	ZONE2 SOURCE	TUNER PRESET CH +	-	Start this unit in the PANEL/REMOTE LOCK selection mode so that PANEL LOCK and Remote Lock can be selected as ON or OFF. (See 22 page)
10	PANEL LOCK mode (with Volume)	↑	↑	-	This function prevents reception of all keys/encoders (including VOLUME) other than the power supply button on the Front Panel.
11	PANEL LOCK mode (without Volume)	↑	↑	-	This function prevents reception of all keys/encoders other than the power supply button and VOLUME encoder on the Front Panel.
12	Panel Lock Release	↑	↑	-	Function for Releasing the PANEL LOCK
13	Protection pass mode	ZONE2 SOURCE	TUNER PRESET CH +	TUNE +	Enables the power to be turned on when protection detection is in the stopped state. (See 50 page)
14	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 56 page)



1. Version Display Mode

1.1. Actions

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

1.2. Starting up

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

1.3. Display Order

Error information(See **1.4. Error display**) → ① Model destination information → ② Firmware Package Version → ③ Main µ-com → ④ Main 1st Boot Loader → ⑤ DSP ROM → ⑥ Audio PLD → ⑦ 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	7	0	0	W		E	3				*
FLD	A	V	R	-	X	1	1	0	0	W		E	3			*
FLD	A	V	R	-	X	1	1	0	0	W		E	2			*
FLD	A	V	R	-	X	1	1	0	0	W		E	1			*
FLD	A	V	R	-	X	1	1	0	0	W		E	1	C		*
FLD	A	V	R	-	X	1	1	0	0	W		J	P			*

② Firmware Package Version :

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

③ Main µ-com Version :

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

*：Main version, #：Sub version

④ Main 1st Boot Loader :

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

⑤ DSP ROM :

FLD		D	S	P							:	*	*	.	*	*

⑥ Audio PLD :

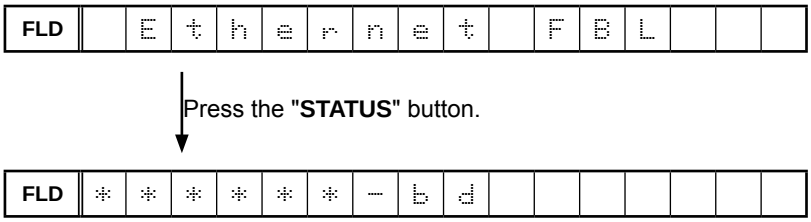
FLD		A	u	d	i	o		P	L	D	:	*	*	.	*	*

⑦ GUI SFLASH :

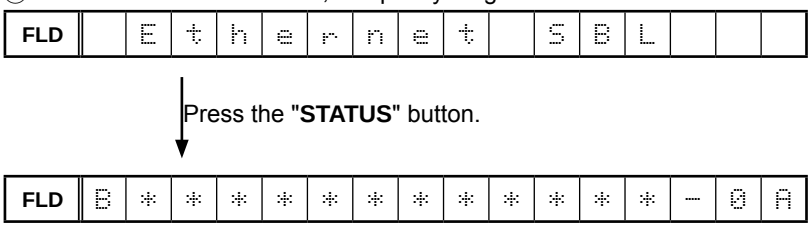
FLD		G	U	I				:	@	@	$	\	*	*	*	*

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

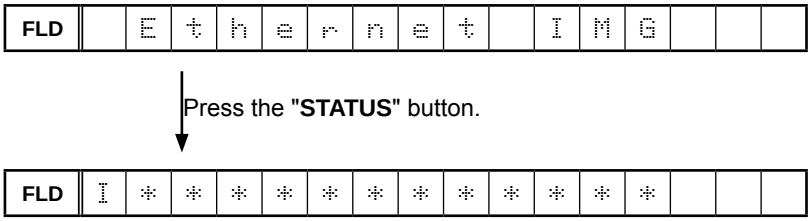
⑧ Ethernet 1st Boot Loader, Hardware ID :



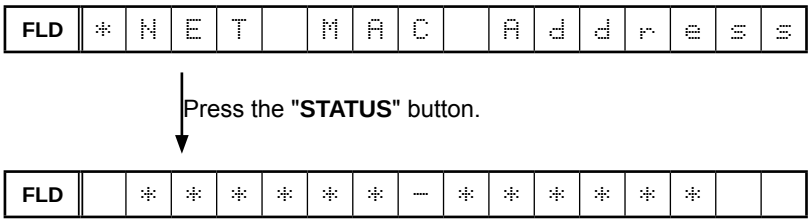
⑨ Ethernet 2nd Boot Loader, Rhapsody Flag :



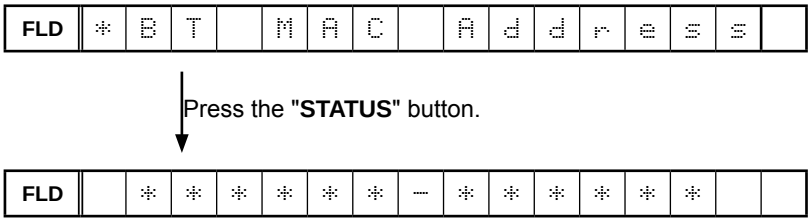
⑩ Ethernet IMAGE :



⑪ Ethernet MAC ADDRESS information :



⑫ BT MAC ADDRESS information :



1.4. Error display

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

Condition	States	Display	TROUBLE SHOOTING
① Firm Check NG	The model name, brand name and region information written in the firmware are compared to the region settings in the PCB.This error is displayed if the information does not match. "▲" or "▼" is displayed as the first character if the firmware is not correct (see right section of table).	FIRM ERROR ▲Main :******** ▲DSP :***.** ▲Audio PLD:***.** ▲GUI :********	•Check the resistor for setting region(R7581 / R7582, DIGITAL PCB). •Write the firmware for the correct region.
② DIR NG	This error is displayed if there is no response from the DIR.	DIR ERROR 01	•Check the DIR (IC772, DIGITAL PCB) and surrounding circuits.
③ DSP NG	The DSP FLAG0 port does not enter "**Hi**" status even after executing a DSP reset during a DSP code boot.	DSP ERROR 01	•Check the DSP (IC781, DIGITAL PCB) and surrounding circuits.
	The DSP FLAG0 port does not enter "**Hi**" status before issuing a DSP command.	DSP ERROR 02	
	ACK="**Hi**" does not occur during DSP data reading, even when WRITE="**Lo**".	DSP ERROR 03	
	ACK="**Lo**" does not occur during DSP data reading, even when REQ="**Lo**".	DSP ERROR 04	
	ACK="**Hi**" does not occur during DSP data writing, even when WRITE="**Hi**".	DSP ERROR 05	
	ACK="**Lo**" does not occur during DSP data writing, even when REQ="**Lo**".	DSP ERROR 06	
④ EEPROM NG	An error occurred in a checksum of the EEPROM(*** is a block address number).	E2PROM ERR***	

1.5. Version Display in the Setup Menu

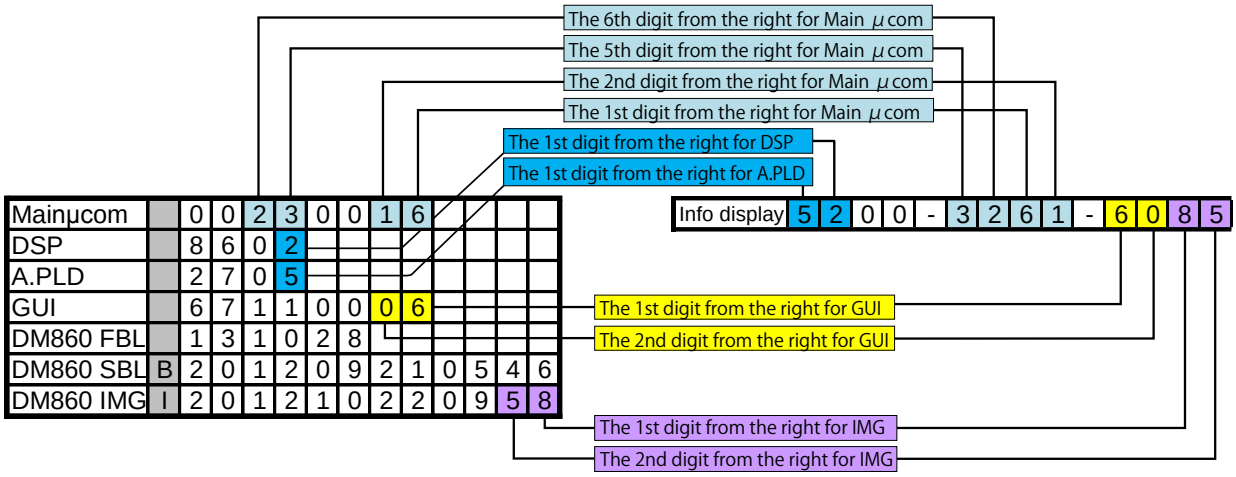
Follow the steps below to display the firmware information.

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

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

GUI Image

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



※ The firmware version numbers and this 12-digit version information are written in the Service Information.

2. PANEL / REMOTE LOCK Selection Mode

2.1. Actions

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

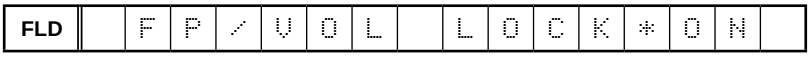
2.2. Starting up

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

2.3. Displaying and Selecting Each Mode

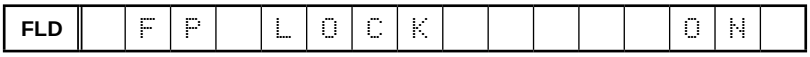
The information shown on the display changes each time the button "**TUNER PRESET CH+**" is pressed.
Press the button "**STATUS**" to set the currently displayed mode and restart the device.
The On/Off setting for each mode is shown by an asterisk "※".

①



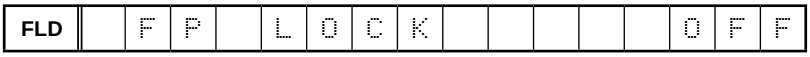
The buttons on the unit and the master volume knob cannot be operated.

②



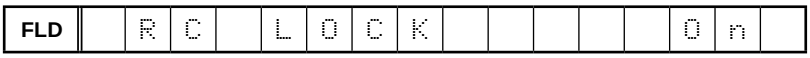
The buttons on the unit cannot be operated.

③



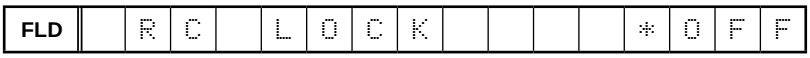
The PANEL LOCK mode is turned off.

④



The device cannot be operated by the remote control.

⑤



The REMOTE LOCK mode is turned off.

3. Selection Modes for Service-related Operations

3.1. Actions

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

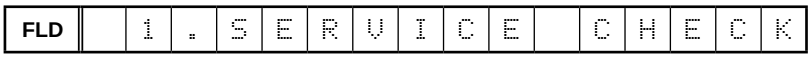
3.2. Starting up

AVR-X1100W
Hold down buttons "**ZONE2 SOURCE**", "**DIMMER**" and "**STATUS**" at the same time and press the power button to turn on the power.
AVR-S700W
Hold down buttons "**TUNER PRESET CH+**", "**TUNE -**" and **TUNE +**" at the same time and press the power button to turn on the power.
Select the mode using the button "**TUNER PRESET CH+**", and press the button "**STATUS**" to commit the selection.

3.3. Displaying and Selecting Each Mode

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

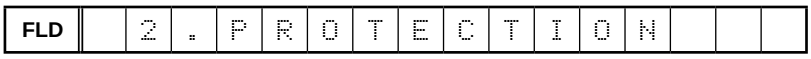
①



Service Path Check Mode:

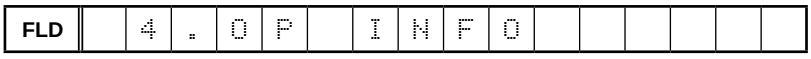
The Video and Audio paths can be checked.
This function is convenient for confirming problem paths in the product and executing a path check after repair.

②



The protection history can be checked.

③



Operation Info for the unit can be checked.

④

Enables reception STEP of the ANALOG TUNER to be changed.

⑤

Function to operate only the desired AV receiver.

3.3. Canceling the mode

Press the power button to turn off the power.

Personal notes:

3.4. DIAGNOSTIC MODE (Service Path Check Mode)

3.4.1. Actions

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

3.4.2. Starting up

AVR-X1100W
Hold down buttons "**ZONE2 SOURCE**", "**DIMMER**" and "**STATUS**" at the same time and press the power button to turn on the power.
AVR-S700W
Hold down buttons "**TUNER PRESET CH +**", "**TUNE -**" and "**TUNE +**" at the same time and press the power button to turn on the power.
Select the mode using the button "**TUNER PRESET CH+**", and press the button "**STATUS**" to commit the selection.
Select "**1. SERVICE CHECK**" and press the "**STATUS**" button to start the diagnostic mode.
The "**TUNED**", "**STERO**" and "**RDS**" segments are lit in this mode.

3.4.3. Canceling diagnostic mode

Press the power button to turn off the power.

3.4.4. Selecting items

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

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

3.4.5. Video system confirmation items

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

	Paths confirmation item	Display	Settings	Contents of confirmation Remarks
1	Analog Video pass **fig.01**	V01:VIDEO PASS	Input Source : CBL/SAT Source of Video Convert(IP Scaler) : OFF, All sources MAIN ZONE ON ZONE2 ON	• Check of CVBS input ⇒ CVBS output. （※ The input source can be switched to any source except CBL/SAT.）
2	HDMI pass （MAIN ZONE） **fig.02**	V03:HDMI PASS	Input Source : CBL/SAT Source of Video Convert(IP Scaler) : OFF, All sources MAIN ZONE ON ZONE2 OFF	• Check of HDMI input（MAIN Function）⇒ HDMI output（MAIN） （※ The input source can be switched to any source except CBL/SAT.）
3	HDMI CEC **fig.03**	V04:HDMI CEC	Input Source : CBL/SAT HDMI Control : ON MAIN ZONE ON ZONE2 OFF	• When the TV is set to Standby by the HDMI1 OUT, check that this unit switches to Standby • The ARC path can also be checked (check this using the TV input source). （※ The input source can be switched to any source except CBL/SAT.）
4	HDMI Audio (Audio: AVR) **fig.04a fig.04b**	V05:H.AUDIO-AVR	Input Source : CBL/SAT HDMI Control : OFF HDMI Audio：AVR (if checking the audio output from AVR)	• Check of HDMI input(PCM , DolbyDigital , DTS) ⇒ Speaker output. • Check of HDMI input(HD audio) ⇒ Speaker output. （※ The input source can be switched to any source except CBL/SAT.）
5	HDMI Audio (Audio: TV) **fig.05**	V06:H.AUDIO-TV	HDMI Audio：TV (if checking the audio output from TV)	• Check of HDMI input(PCM , DolbyDigital , DTS) ⇒ HDMI output (audio output from connected TV) （※ The input source can be switched to any source except CBL/SAT.）
6	GUI **fig.06**	V07:GUI MENU ON	Input Source : CBL/SAT Video Convert(IP Scaler) : ON, All sources IP Scaler : "Analog & HDMI", All sources Resolution : "AUTO", All sources Setup Menu ON MAIN ZONE ON ZONE2 OFF	• Check of GUI display ⇒ HDMI output. （※ The input source can be switched to any source except CBL/SAT.）

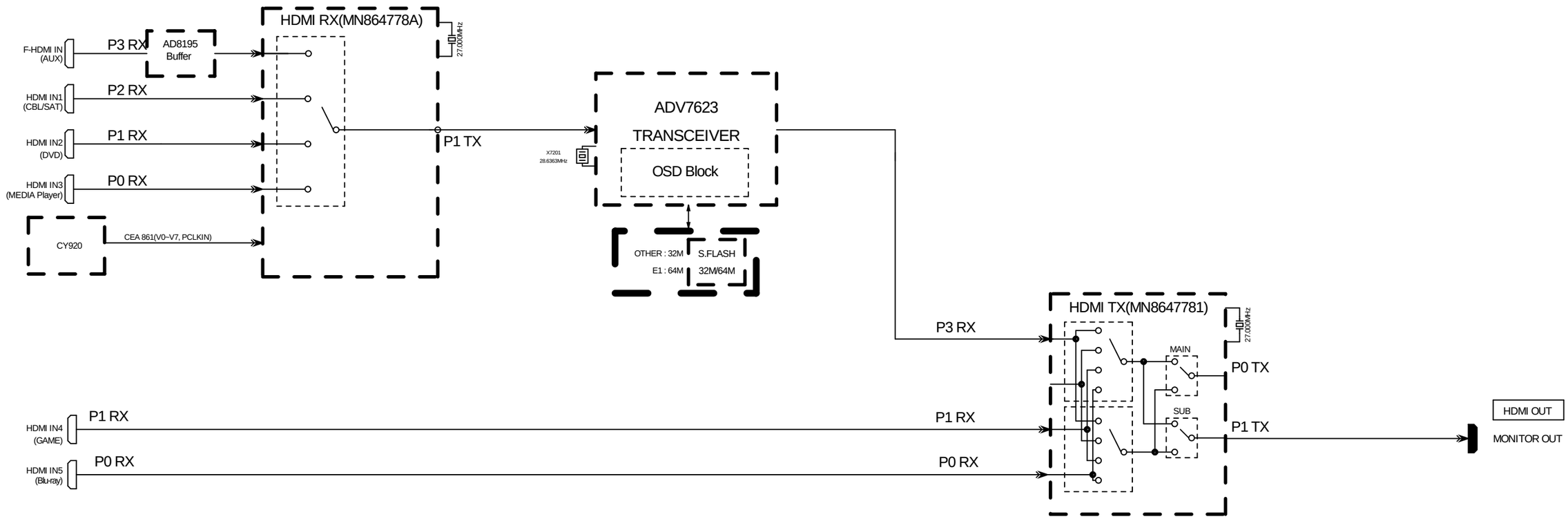
3.4.6. Audio system confirmation items

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

	Paths confirmation item	Display	Settings	Contents of confirmation Remarks
1	Analog (pass) **fig.07**	A01:ANALOG PASS	Input Source: CBL/SAT Input Mode: ANALOG fixed Sound mode: DIRECT Amp assign: Surround Back MAIN ZONE: ON ZONE2: OFF	・Check the audio output. ・Check of Analog input ⇒ Speaker output. Front L/R （※ The input source can be switched to any source except CBL/SAT.）
2	DIGITAL (MAIN) **fig.08a** **fig.08b**	A02:DIGITAL	Input Source : CBL/SAT Input Mode : DIGITAL fixed Sound mode: MULTI CH STEREO Amp assign : Surround Back Speaker Config all Speaker=Small / SW=Yes(2ch) MAIN ZONE ON ZONE2 OFF	・Check the audio output. ・Check of Digital input ⇒ Speaker output. Front L/R、Center、Surround L/R、Surround Back L/R ・Check of Digital(PCM) input ⇒ Preout output. Front L/R、Center、Surround L/R、Surround Back L/R、Subwoofer （※ The input source can be switched to any source except CBL/SAT.）
3	HDMI **fig.09a** **fig.09b**	A05:HDMI	Input Source : CBL/SAT Input Mode : HDMI fixed Sound mode: STEREO Amp assign : Surround Back MAIN ZONE: ON ZONE2: OFF	・Check the audio output. ・HDMI input ⇒ Speaker output. Front L/R （※ The input source can be switched to any source except CBL/SAT.）
4	Analog AD (MAIN) **fig.10a** **fig.10b**	A06:AD	Input Source : CBL/SAT Input Mode : Analog fixed Sound mode: MULTI CH STEREO Vol -20dB Amp assign : Surround Back Speaker Config all Speaker=Small / SW=Yes(2ch) MAIN ZONE: ON ZONE2: OFF	・Check the audio output. ・Check of Analog input ⇒ Speaker output. Front L/R、Center、Surround L/R、Surround Back L/R ・Check of Analog input ⇒ Pre OUT. Front L/R、Center、Surround L/R、Surround Back L/R、Subwoofer （※ The input source can be switched to any source except CBL/SAT.） （※ Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used）
5	Analog Amp Assign (Amp Assign: ZONE2) **fig.11**	A07:ASSIGN-Z2	Input Source : CBL/SAT Input Mode : Auto Sound mode: STEREO Z2 Source : Source Vol -20dB Amp assign : ZONE2 MAIN ZONE: ON ZONE2: ON	・Check the audio output. ・Check of Analog input ⇒ Speaker output. Surround Back(ZONE2) L/R ・Check of Analog input ⇒ Pre OUT. ZONE2 L/R （※ The input source can be switched to any source except CBL/SAT.） （※ Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used）
6	Analog Amp Assign (Amp Assign: Bi-Amp) AVR-X1100W Only **fig.12**	A11:ASSIGN-Bi AMP	Input Source : CBL/SAT Input Mode : Auto Sound mode: MULTI CH STEREO Amp assign : Bi-Amp MAIN ZONE ON ZONE2 OFF	・Check the audio output. ・Check of Analog input ⇒ Speaker output. Surround Back L/R （※ The input source can be switched to any source except CBL/SAT.） （※ Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used）
7	Front Height **fig.13a** **fig.13b**	A14:FRONT HEIGHT	Input Source : CBL/SAT Input Mode : Auto Sound mode: MULTI CH STEREO Vol -20dB Amp assign : Front Height MAIN ZONE ON ZONE2 OFF	・Check the audio output. ・Check of Analog input ⇒ Speaker output. Surround Back L/R （※ The input source can be switched to any source except CBL/SAT.） ・Check of PREOUT output. （※ Volume -20dB is the value when Relative settings are used. The value is 60 when Absolute settings are used）

DIAGNOSTIC PATH DIAGRAM

fig.01 AVR-S700W/X1100W VIDEO BLOCK



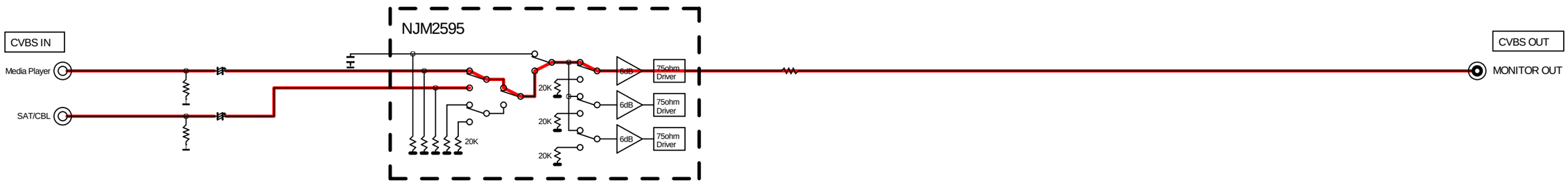
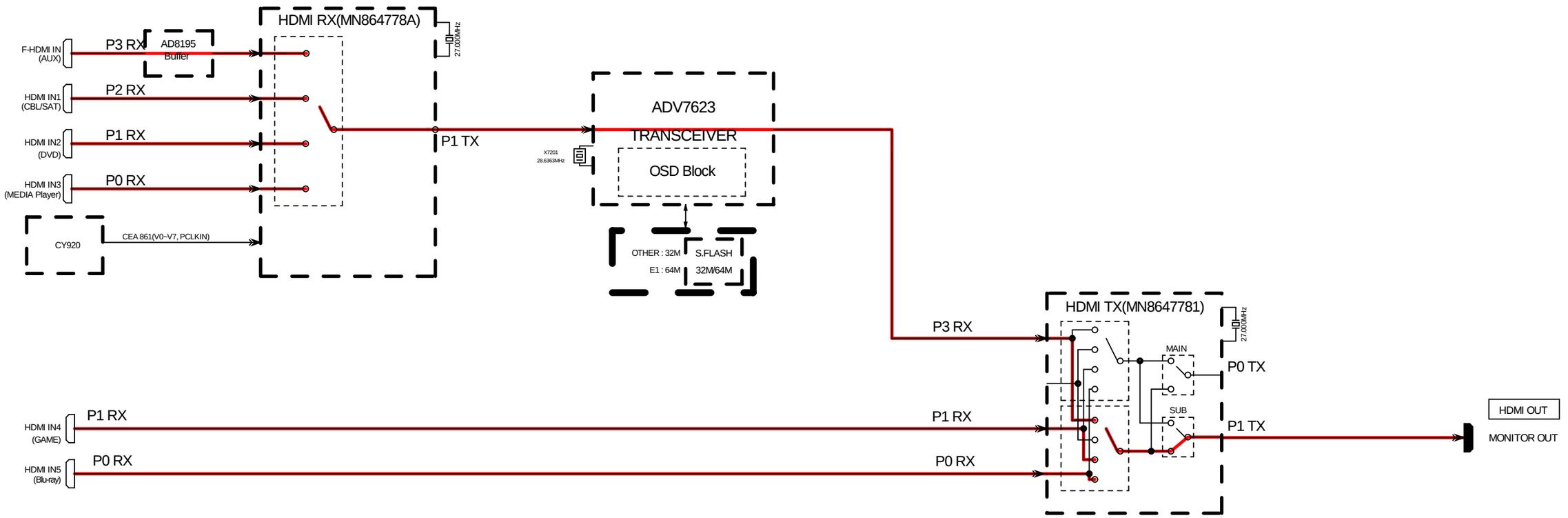


fig.02

AVR-S700W/X1100W VIDEO BLOCK



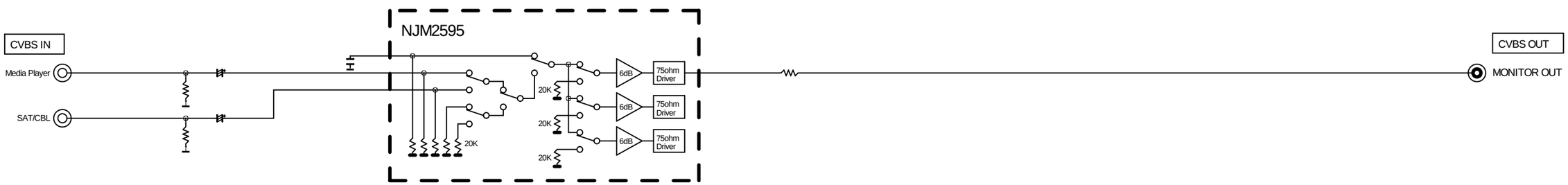
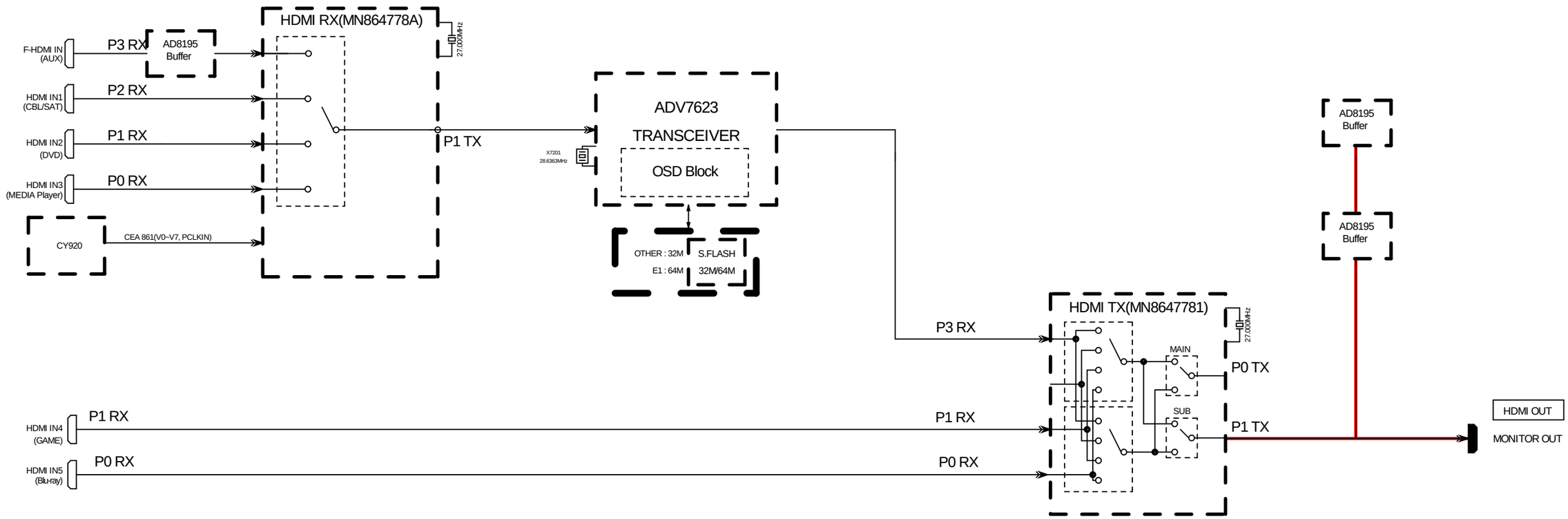


fig.03

AVR-S700W/X1100W VIDEO BLOCK



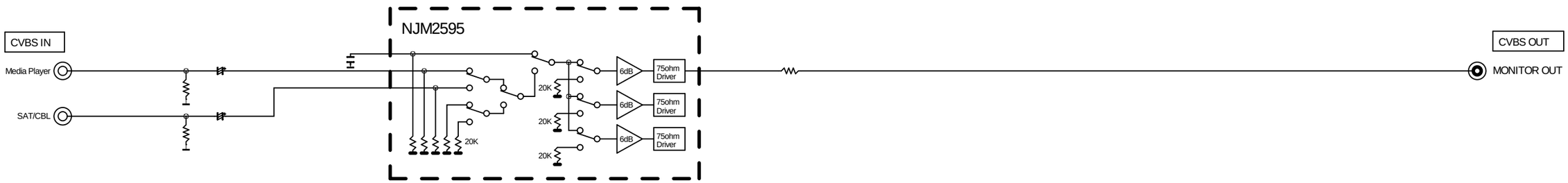


fig.04a

AVR-S700W/X1100W DIGITAL AUDIO BLOCK

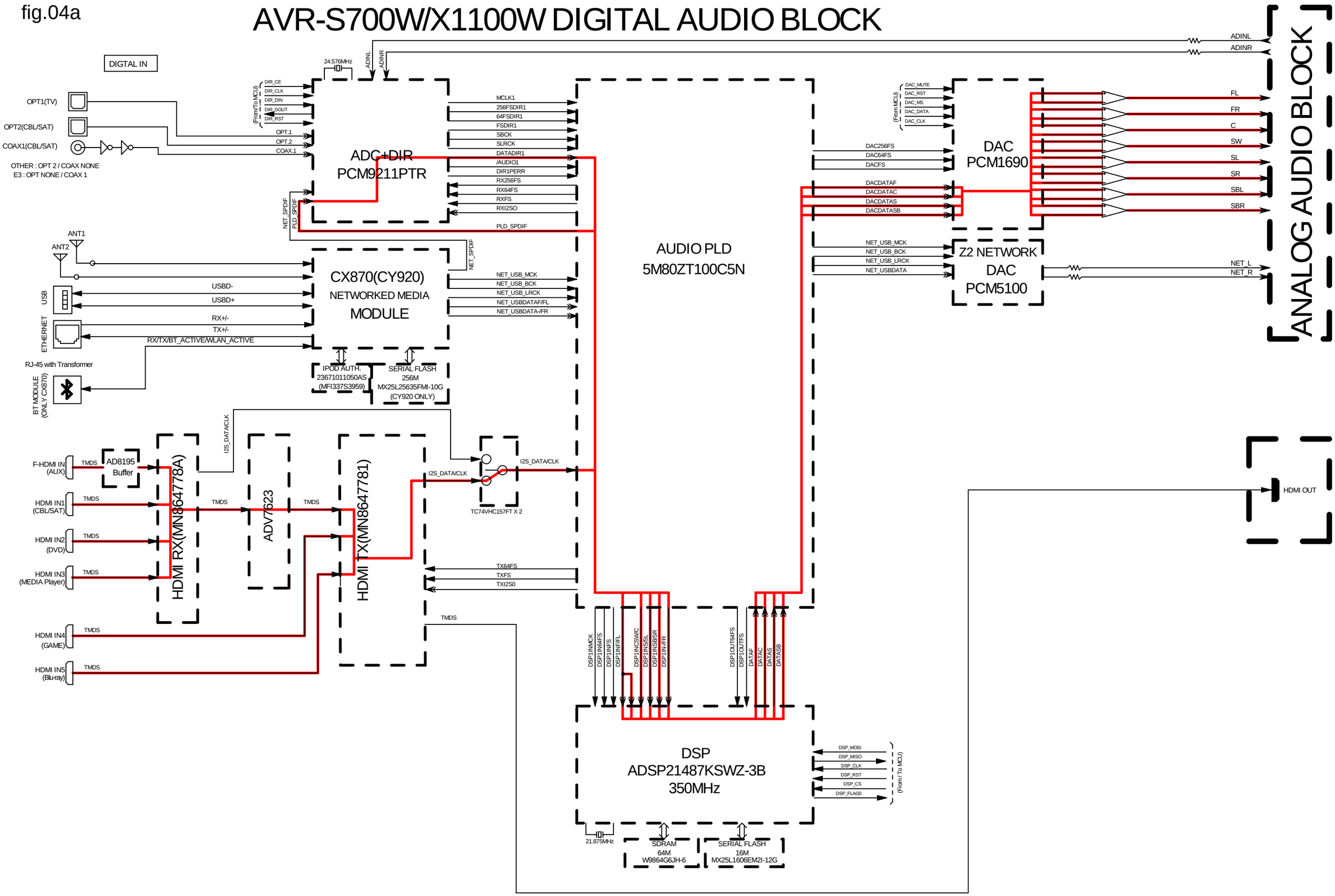


fig.04b

AVR-S700W/X1100W ANALOG AUDIO BLOCK

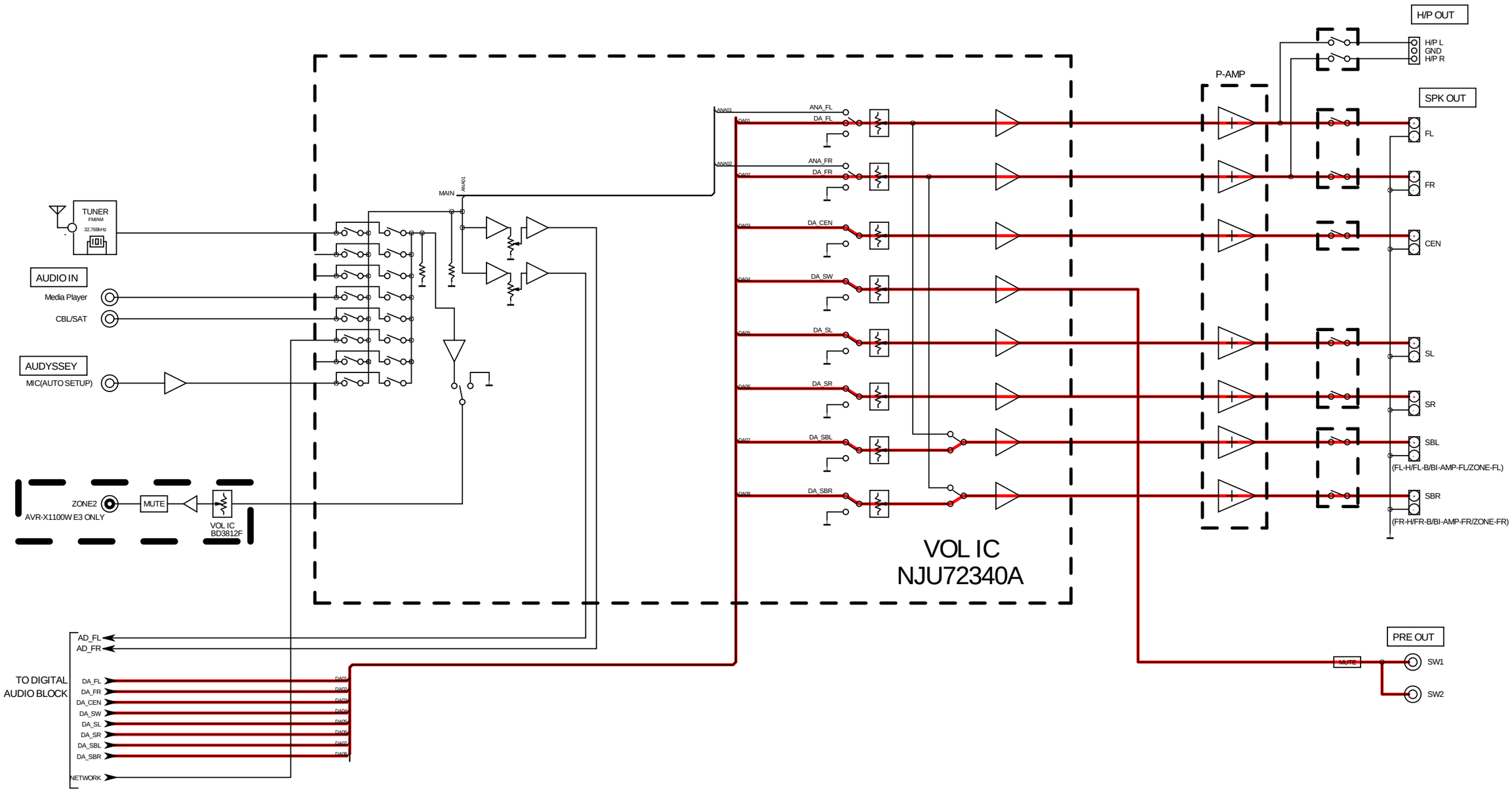


fig.05

AVR-S700W/X1100W DIGITAL AUDIO BLOCK

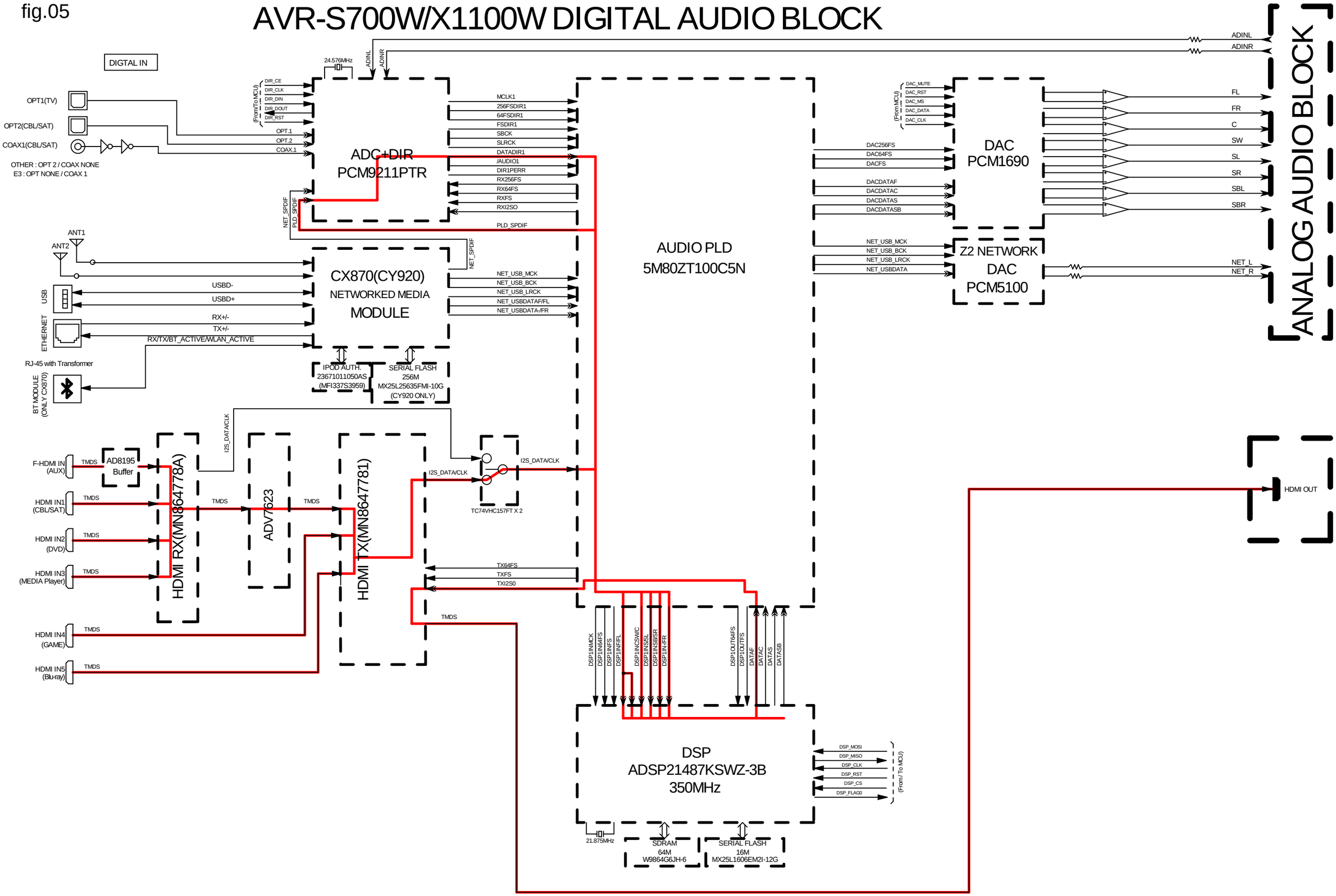
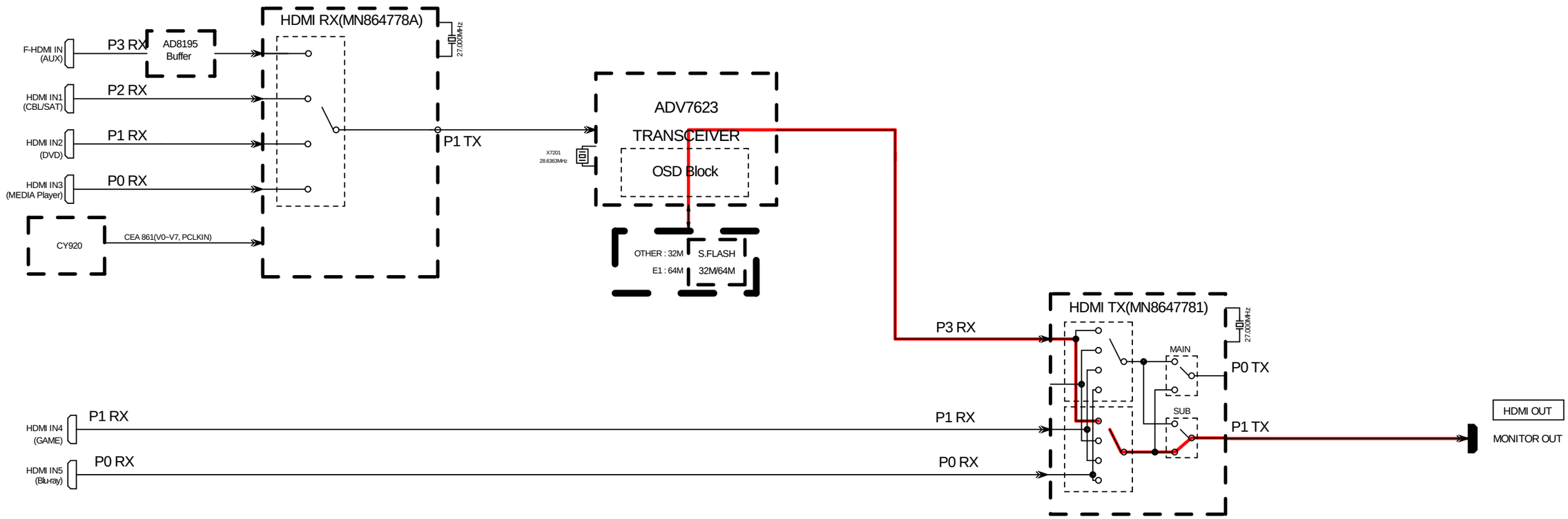


fig.06

AVR-S700W/X1100W VIDEO BLOCK



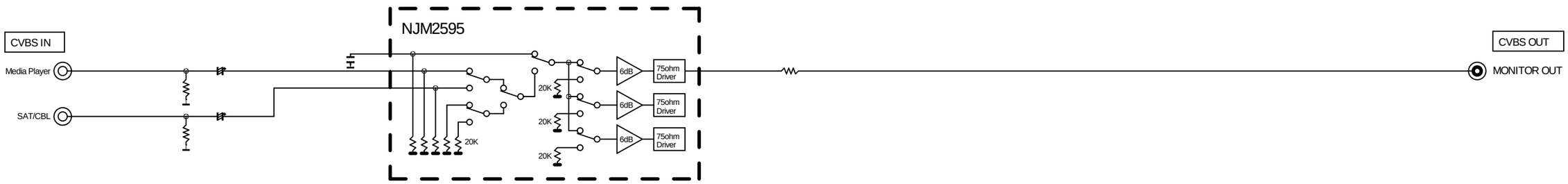


fig.07

AVR-S700W/X1100W ANALOG AUDIO BLOCK

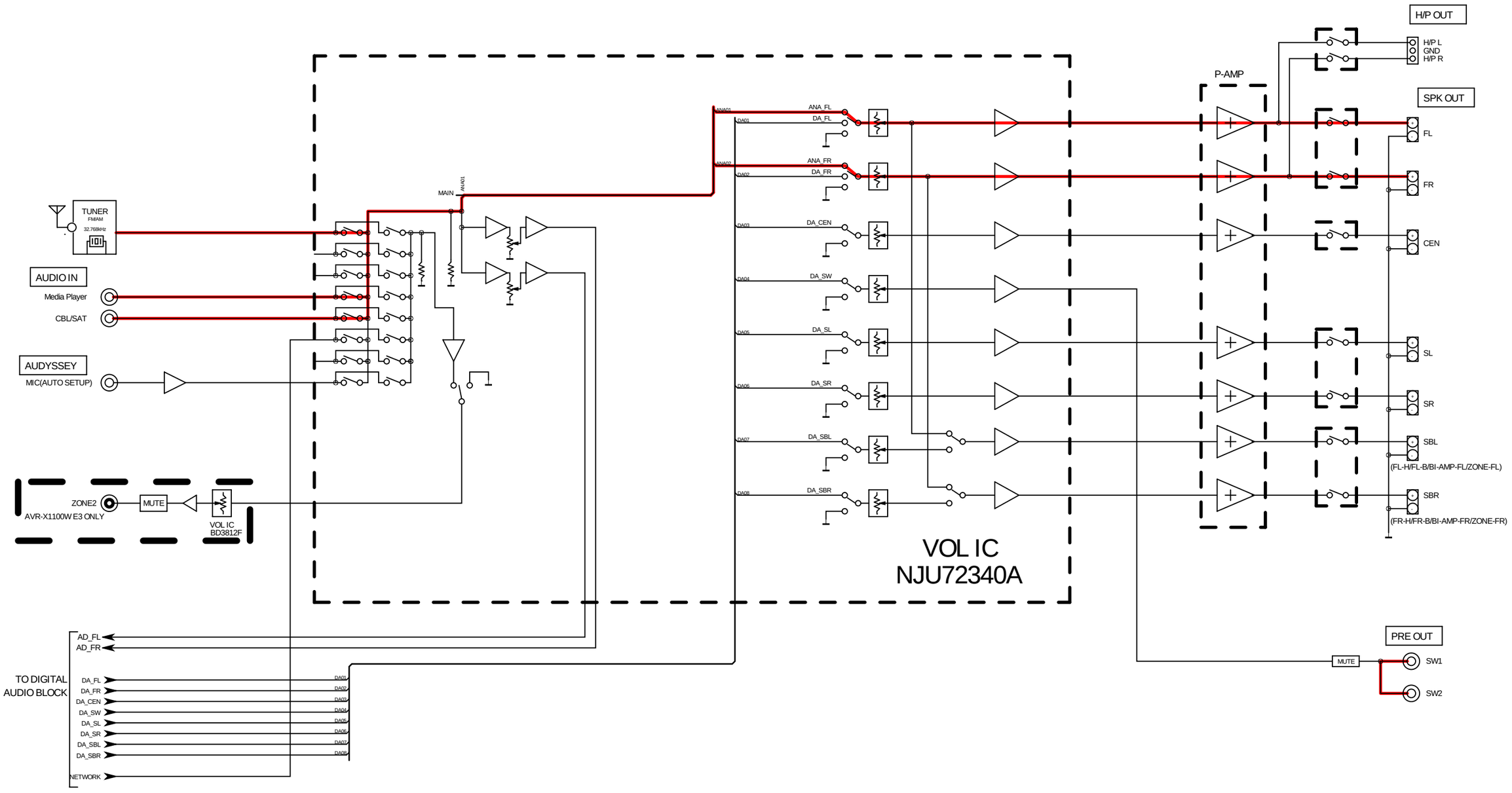


fig.08a

AVR-S700W/X1100W DIGITAL AUDIO BLOCK

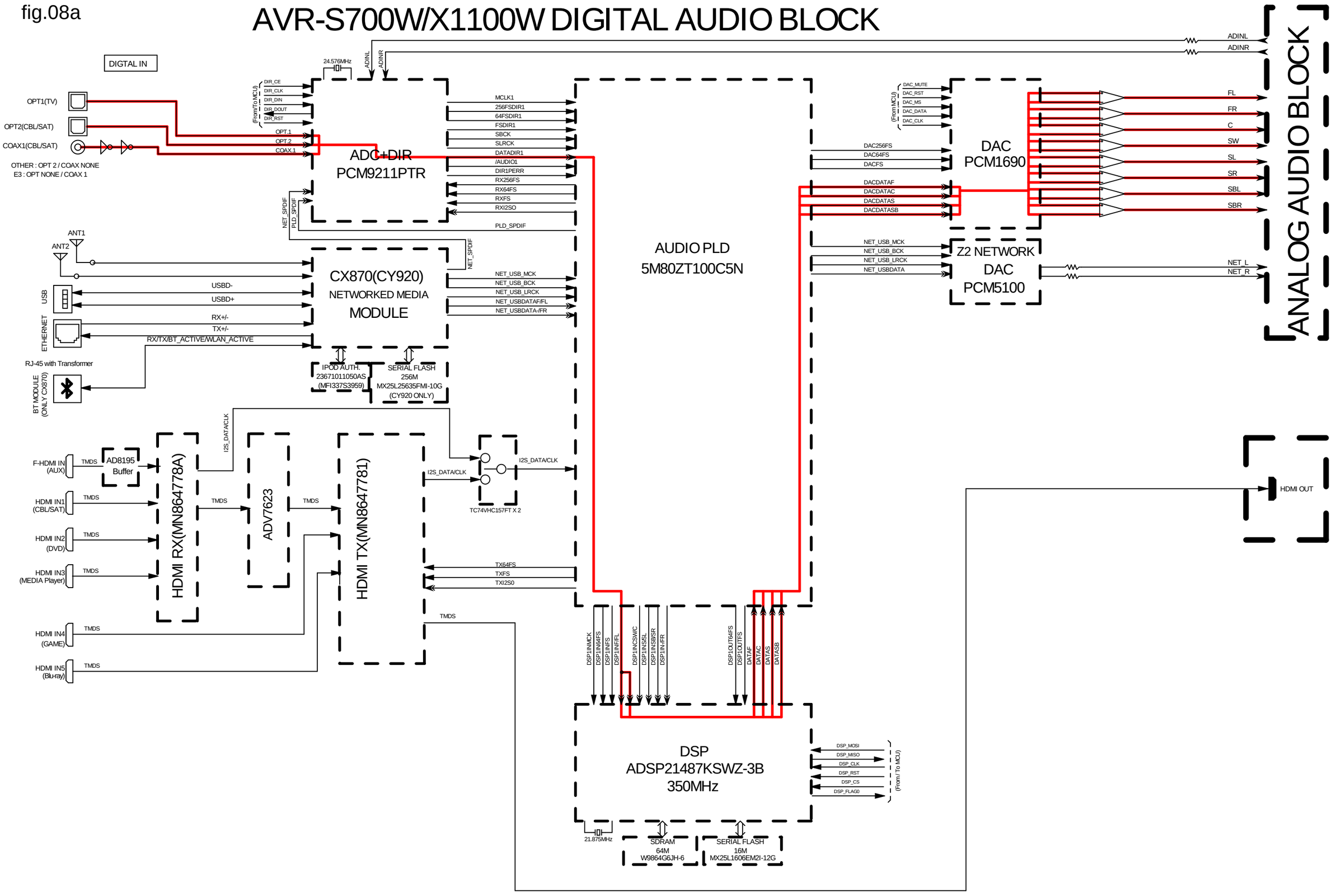


fig.08b

AVR-S700W/X1100W ANALOG AUDIO BLOCK

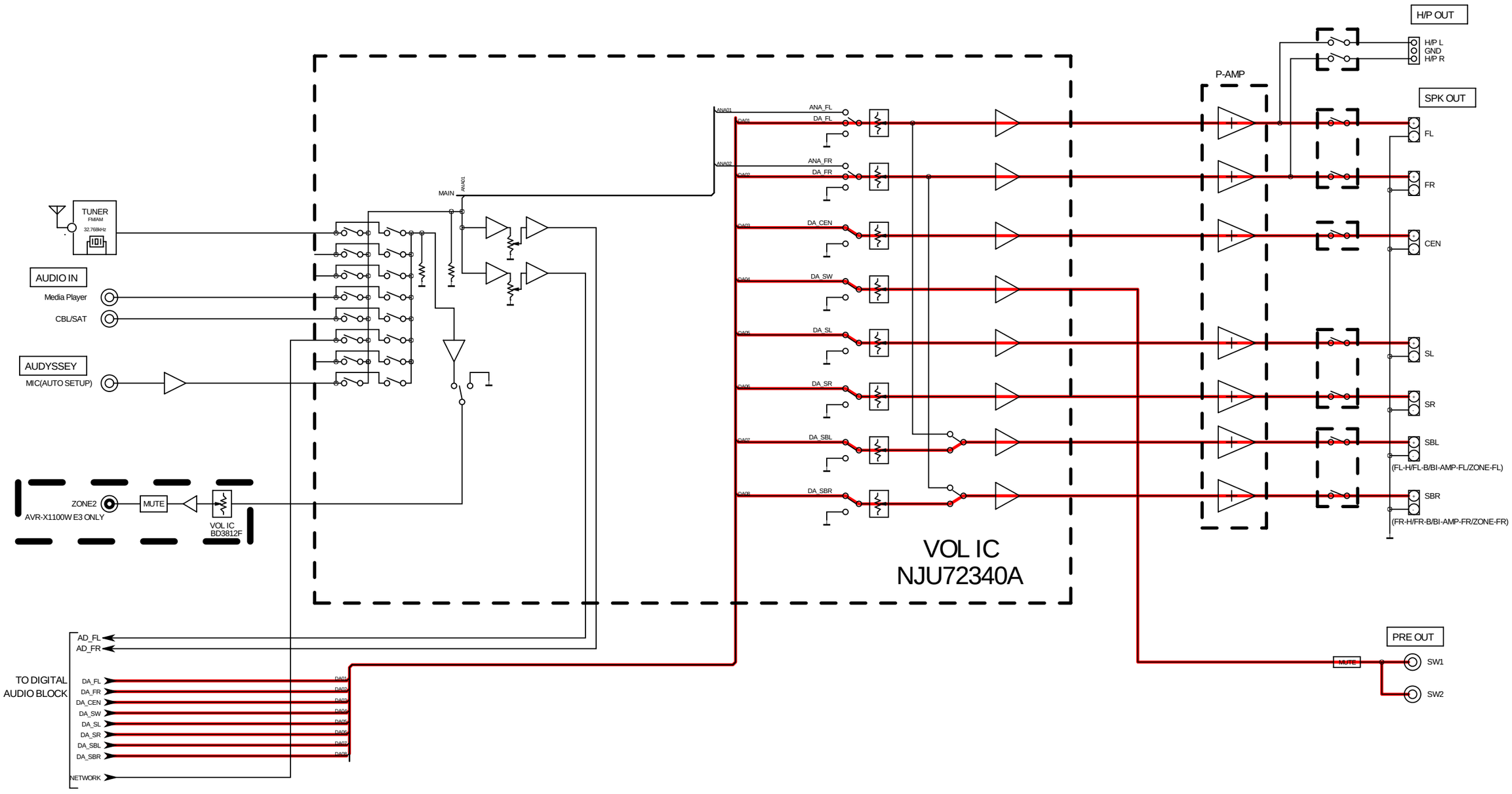


fig.09a

AVR-S700W/X1100W DIGITAL AUDIO BLOCK

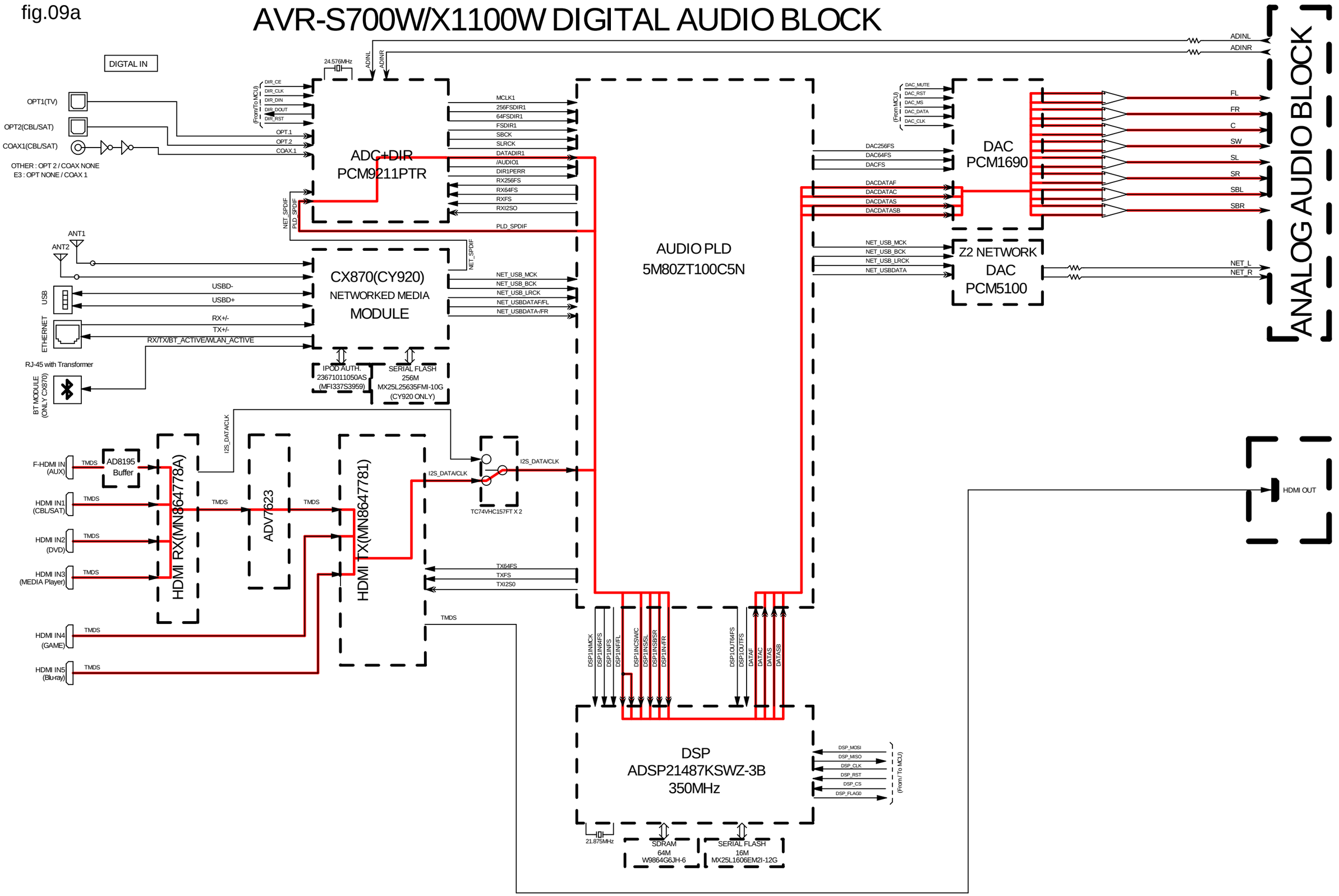


fig.09b

AVR-S700W/X1100W ANALOG AUDIO BLOCK

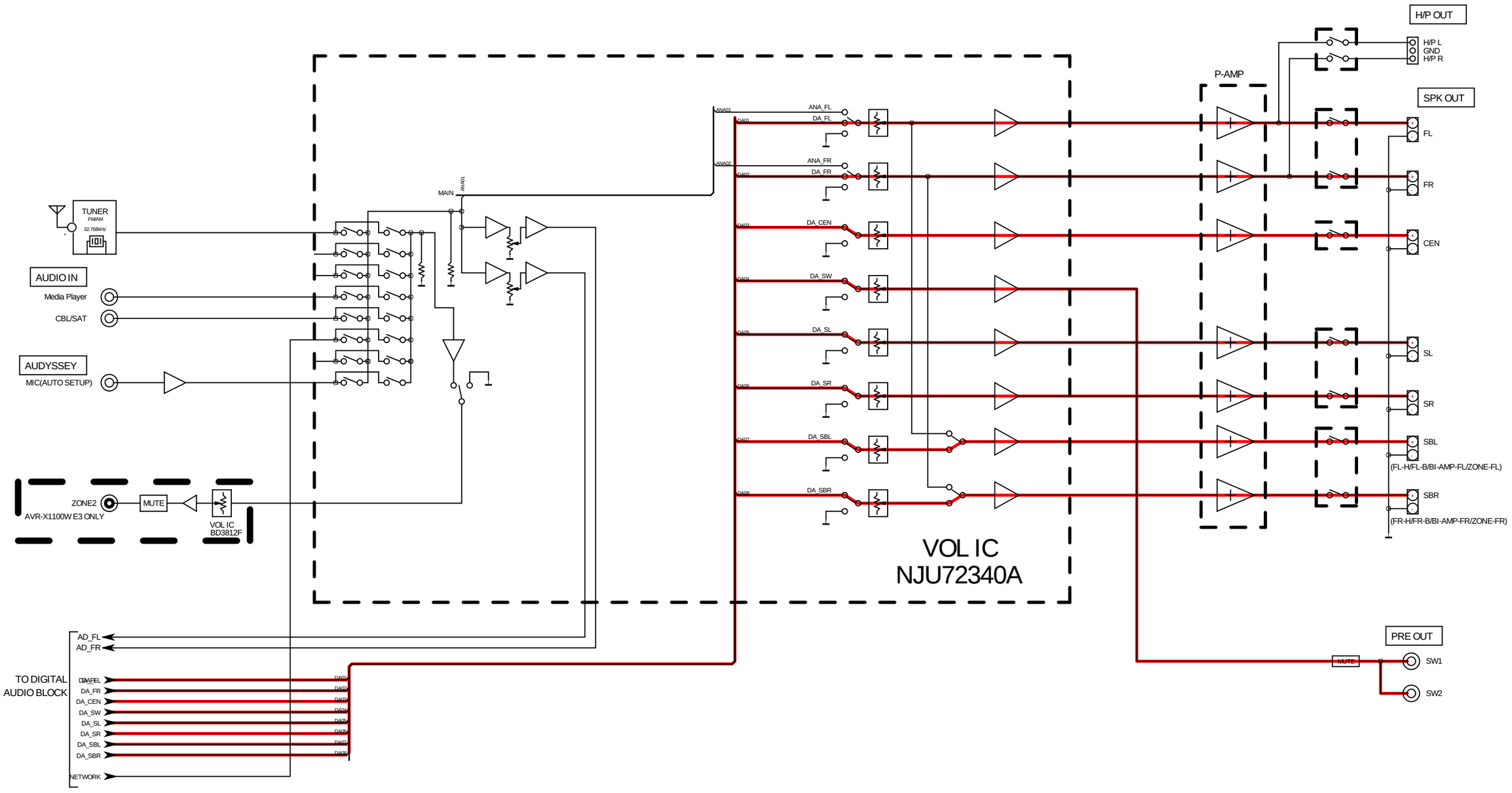


fig.10a

AVR-S700W/X1100W DIGITAL AUDIO BLOCK

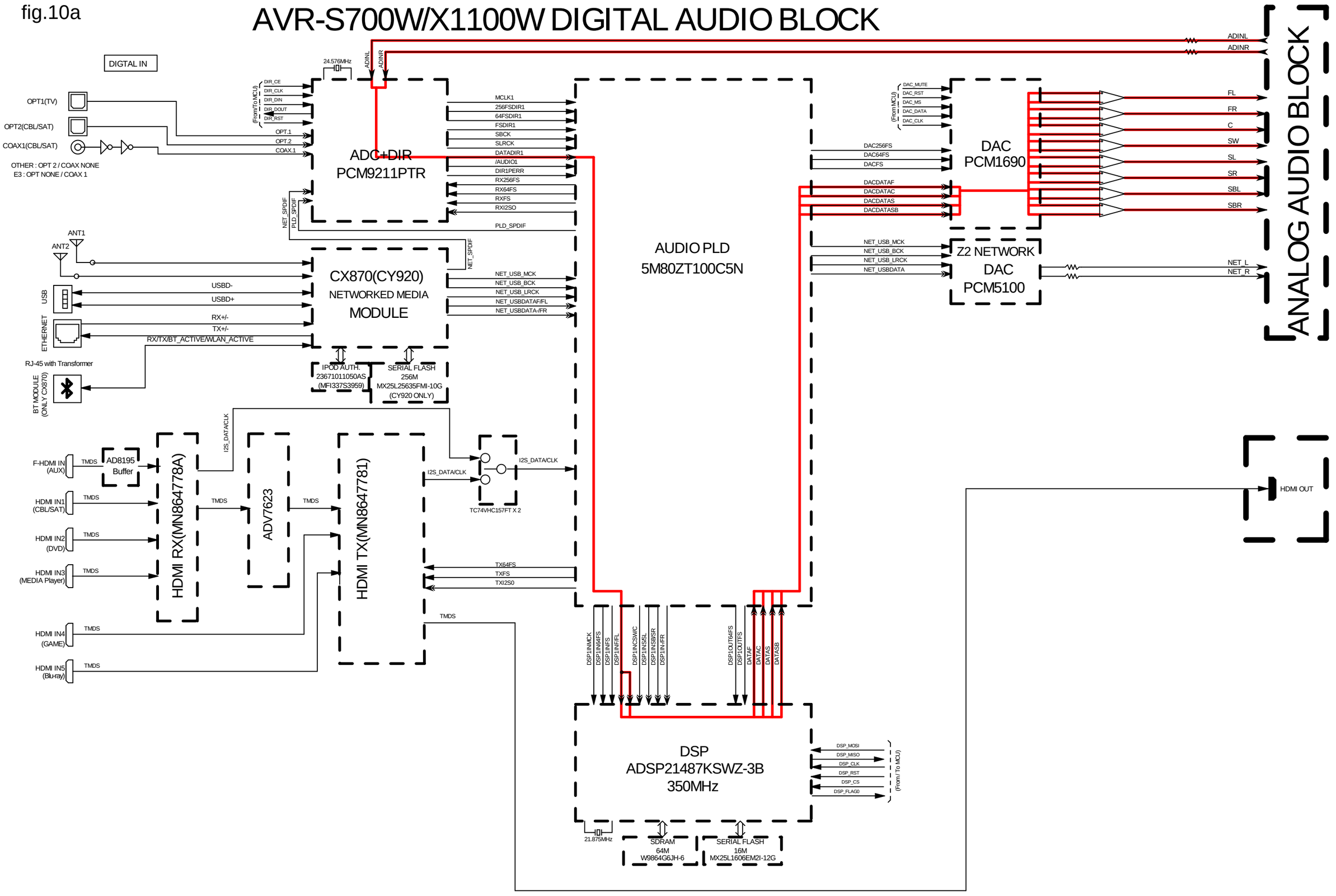


fig.10b

AVR-S700W/X1100W ANALOG AUDIO BLOCK

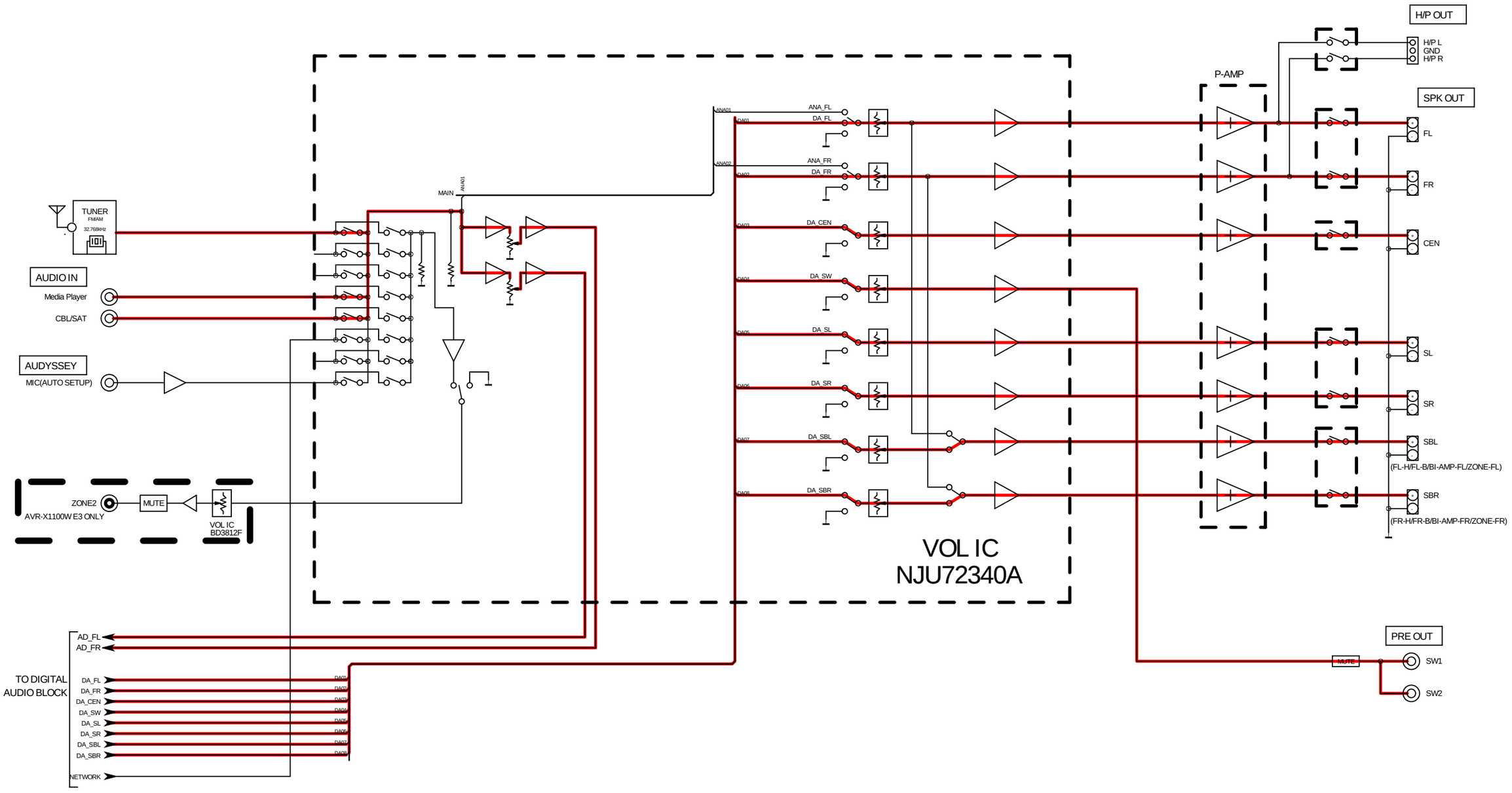


fig.11

AVR-S700W/X1100W ANALOG AUDIO BLOCK

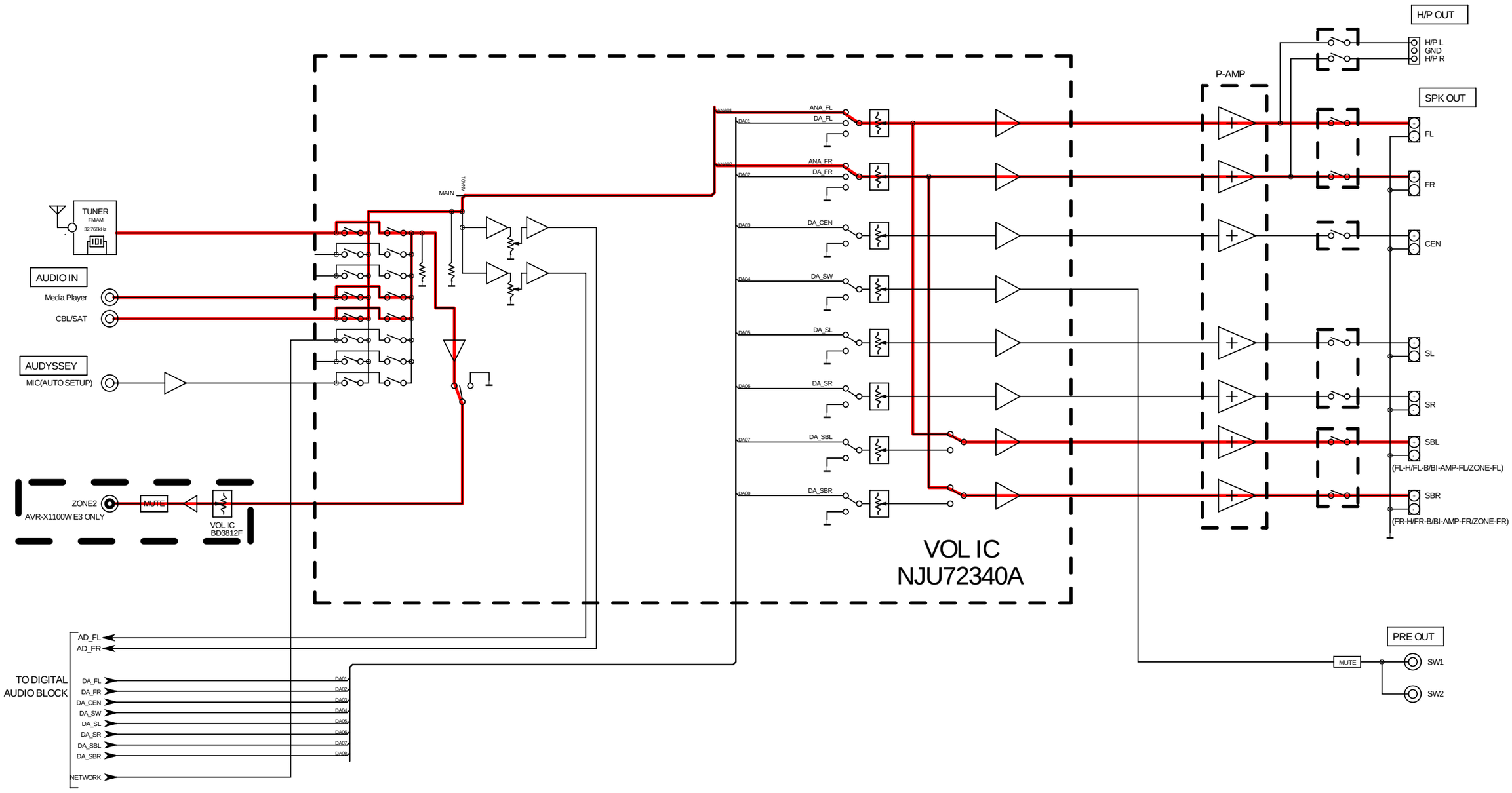


fig.12

AVR-S700W/X1100W ANALOG AUDIO BLOCK

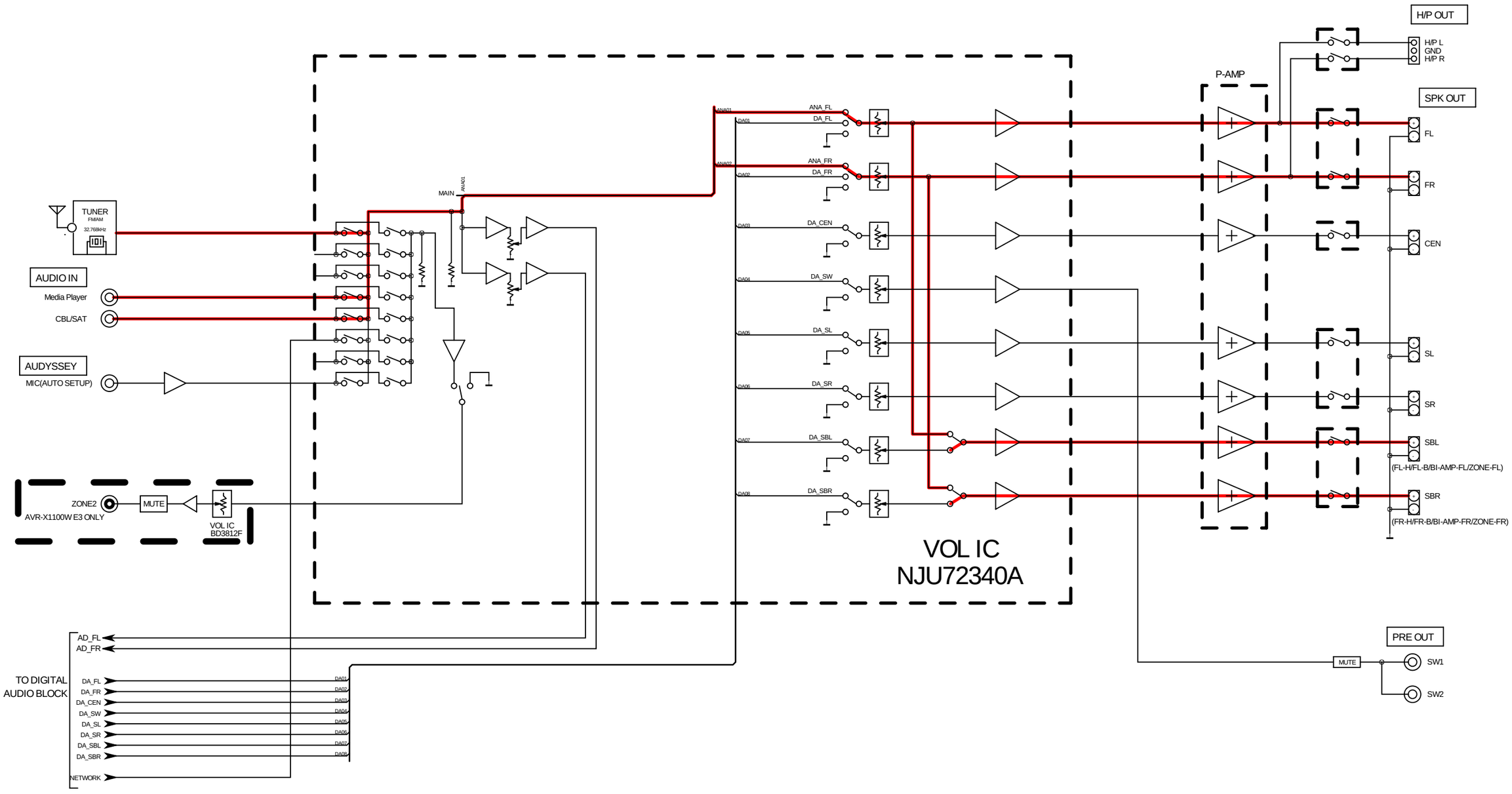


fig.13a

AVR-S700W/X1100W DIGITAL AUDIO BLOCK

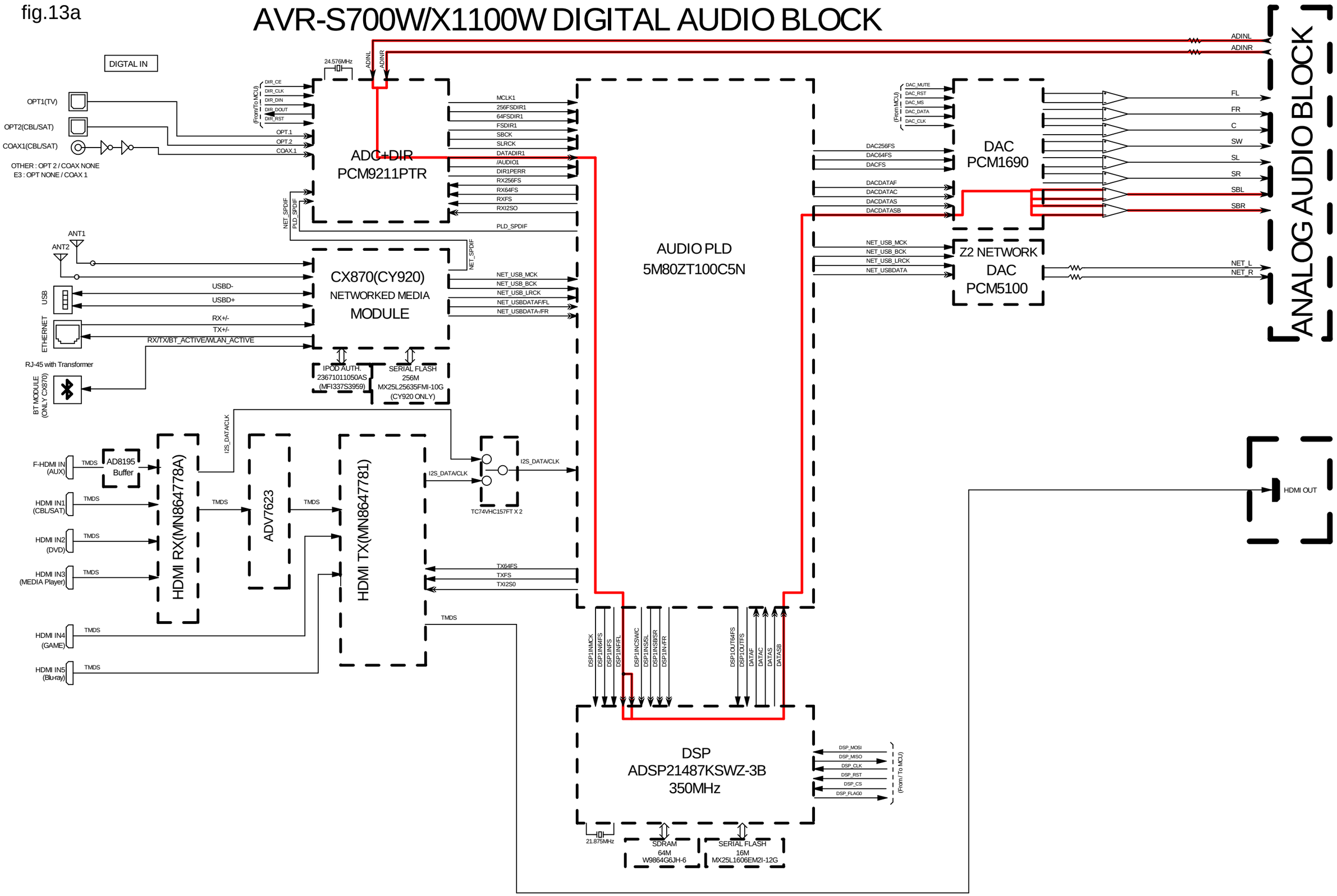
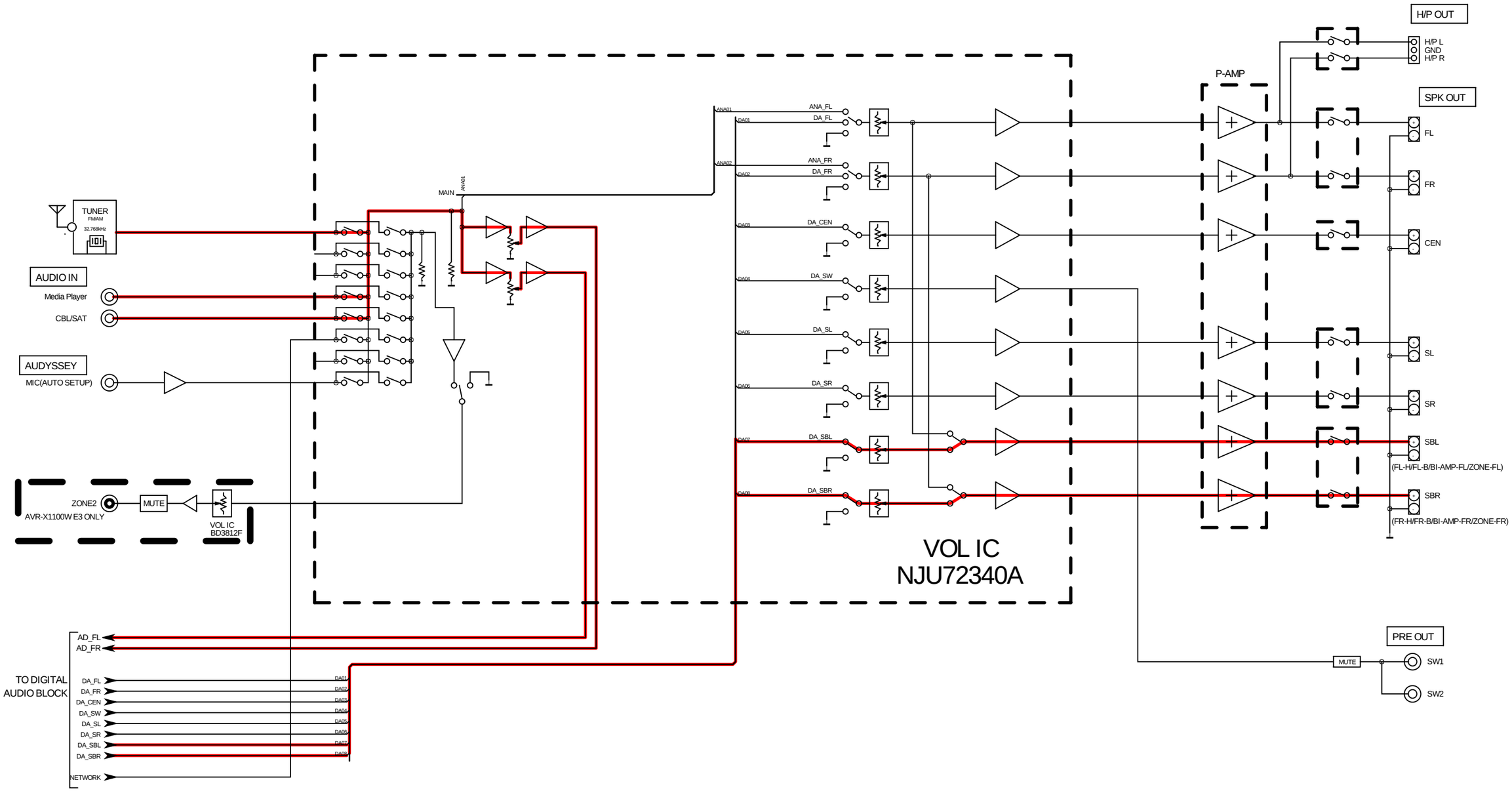


fig.13b

AVR-S700W/X1100W ANALOG AUDIO BLOCK



3.5. Protection History Display Mode

3.5.1. Actions

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

3.5.2. Starting up

AVR-X1100W
・Hold down buttons "**ZONE2 SOURCE**", "**DIMMER**" and "**STATUS**" at the same time and press the power button to turn on the power.
AVR-S700W
・Hold down buttons "**TUNER PRESET CH+**", "**TUNE -**" and "**PRESET +**" at the same time and press the power button to turn on the power.
Select the "**2. PROTECTION**" using the button "**TUNER PRESET CH+ / -**", and press the button "**STATUS**" to commit the selection.

3.5.3. Protection information and displays

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

(1) If no protections have occurred.

FLD	N	O		P	R	O	T	E	C	T						

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

FLD	P	R	T	:	A	S	O	/	D	C						

Cause: A short circuit occurred between the speaker terminals, or speakers with an impedance outside the rating were connected.
Abnormal DC output from the power amp.
Note: Short circuits in speaker terminals or speakers can be identified.

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

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

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

Cause: Abnormal heat sink temperature.

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

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

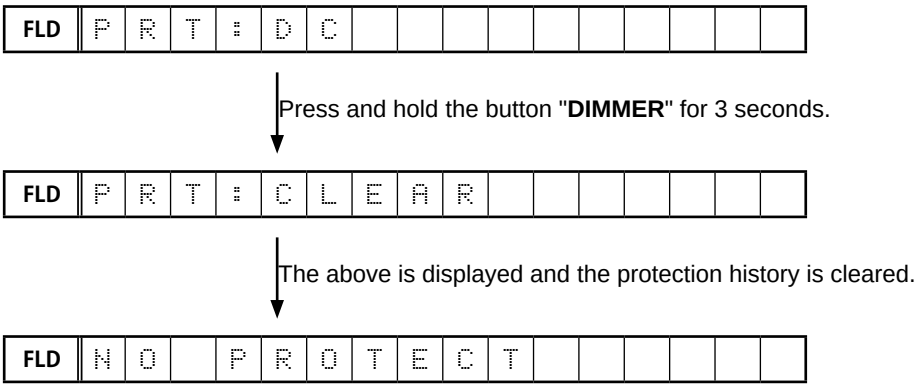
FLD	:	C	U	R	R	E	N	T								

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

3.5.4. Clearing the Protection History

There are two ways to clear the protection history.

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



(2) Initialize this unit. ("See "**Initializing This Unit**" 11 page)

※ Use the method in **3.5.3.(1)** if you do not want to erase your settings from this unit.

Warning Displays by POWER LED

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

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

3.6. Operation Info Mode

3.6.1. Actions

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

3.6.2. Starting up

AVR-X1100W

・Hold down buttons "**ZONE2 SOURCE**", "**DIMMER**" and "**STATUS**" at the same time and press the power button to turn on the power.

AVR-S700W

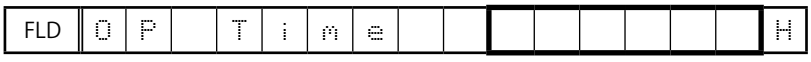
・Hold down buttons "**TUNER PRESET CH+**", "**TUNE -**" and "**PRESET +**" at the same time and press the power button to turn on the power.

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

3.6.3. Operations

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

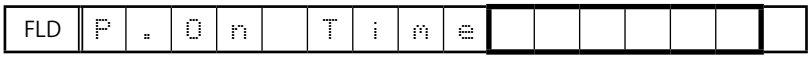
(a) Accumulated operating time



↑Time display

"**STATUS**"

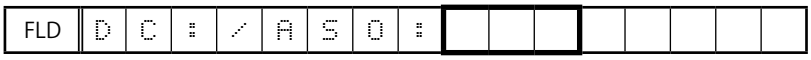
(b) Power on count



↑Count display

"**STATUS**"

(c) DC / ASO Protection count

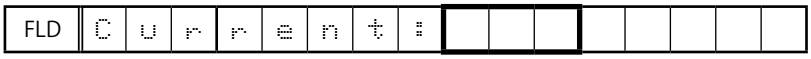


"**STATUS**"

(d) Thermal Protection count

"**STATUS**"

(e) Thermal Protection count



"**STATUS**"

(Returns to normal display)

3.7. TUNER STEP mode (for E2 / E3)

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-X1100W

・Hold down buttons "**ZONE2 SOURCE**", "**DIMMER**" and "**STATUS**" at the same time and press the power button to turn on the power.

AVR-S700W

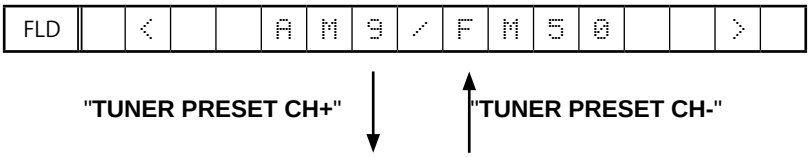
・Hold down buttons "**TUNER PRESET CH+**", "**TUNE -**" and "**PRESET +**" at the same time and press the power button to turn on the power.

Select the "**5. TUNER FRQ SER**" using the button "**TUNER PRESET CH+ / -**", and press the button "**STATUS**" to commit the selection.

3.7.3. Displays

Start this unit in TUNER STEP mode, select using button "**TUNER PRESET CH+/-" and enter using button "**STATUS".
The following information is displayed in the following order.

(a) AM9kHz/FM50kHz selected



(b) AM10KHz/FM200kHz 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-X1100W

・Hold down buttons "**ZONE2 SOURCE**", "**DIMMER**" and "**STATUS**" at the same time and press the power button to turn on the power.

AVR-S700W

・Hold down buttons "**TUNER PRESET CH+**", "**TUNE -**" and "**TUNE +**" at the same time and press the power button to turn on the power.

Select the "**6. REMOTE ID**" using the button "**TUNER PRESET CH+ / -**", and press the button "**STATUS**" to commit the selection.

4.3. Operations

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

FLD				R	E	M	O	T	E		I	D		?		

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

Button	Display
QUICK SELECT 1	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.

NOTE:

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

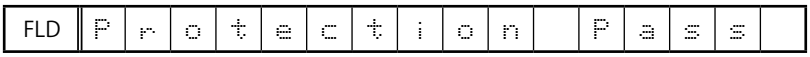
5. Protection Pass Mode

5.1. Actions

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

5.2. Operations

AVR-X1100W
・Hold down buttons "**TUNER PRESET CH +**", "**ZONE2 SOURCE**" and "**STATUS**" at the same time and press the power button to turn on the power.
AVR-S700W
・Hold down buttons "**ZONE2 SOURCE**", "**TUNER PRESET CH +**" and "**TUNE +**" at the same time and press the power button to turn on the power.
The device returns to the normal display after the following is displayed.



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

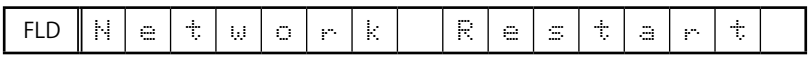
6. CX870 / CY920 Reboot mode

6.1. Actions

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

6.2. Operations

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



4. Returns to the normal display.

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

7. CX870 / CY920 Initialization mode

7.1. Actions

The following items are initialized.

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

7.2. Operations

AVR-X1100W

・Hold down buttons "**ZONE2 SOURCE**" and "**DIMMER**" for at least 3 seconds while the power is on.

AVR-S700W

・Hold down buttons "**TUNER PRESET CH +**" and "**TUNE -**" for at least 3 seconds while the power is on.

Initializing Display

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

Complete Display

FLD				C	o	m	p	l	e	t	e	d		

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

Failed Display

FLD						F	a	i	l	e	d			

SERVICE JIGS

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

CAUTION : Incorrect connections may cause malfunction.

• Connection of Jig for DIGITAL PCB

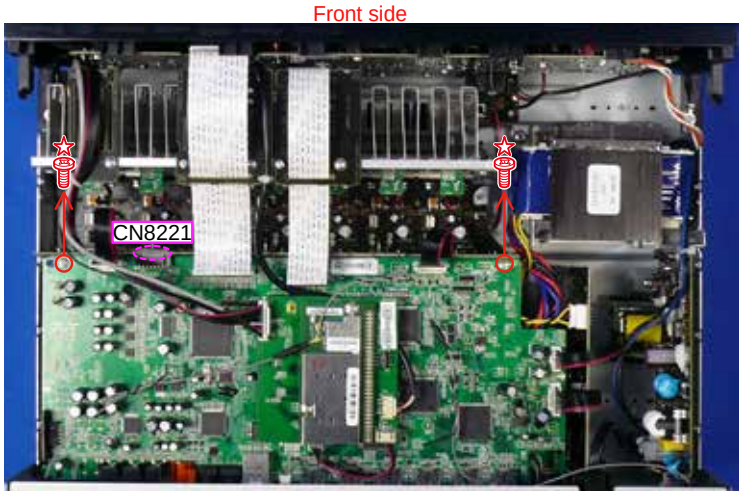
-Items to Be Prepared-

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

-Procedures-

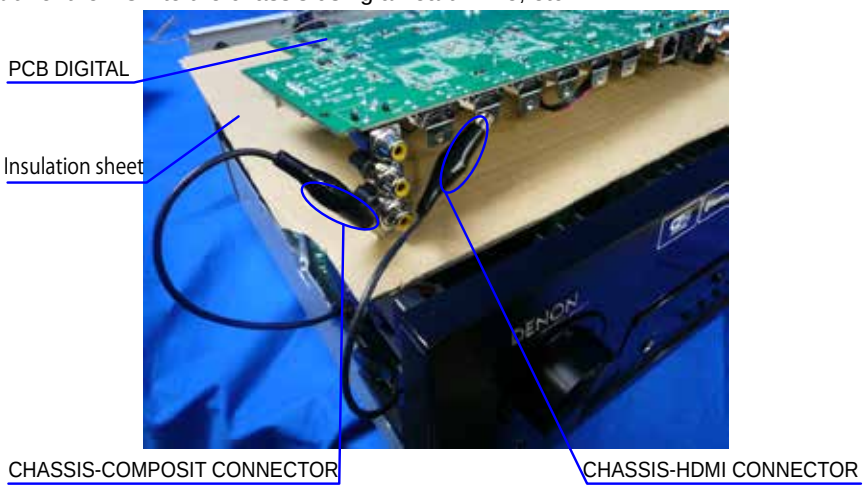
(1) Remove the screws.

(2) Remove the connector PCB. Remove the screws.

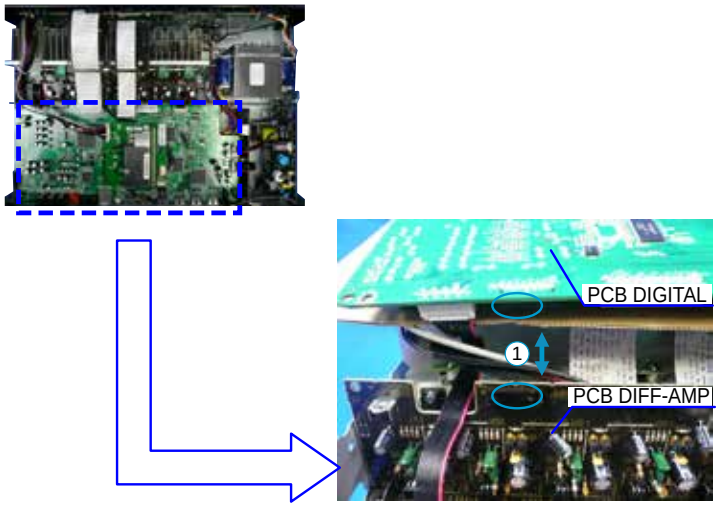


(3) Remove the DIGITAL PCB from the chassis and turn it over.
Place an insulation sheet larger than the PCB underneath the DIGITAL PCB.

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



(4) Connect the expansion cables.



Connection table of Board to Board

No.	Pin	Ref. No.	PCB		Ref. No.	PCB
①	15pin	CN201	DIFF-AMP	⟷	CN822	DIGITAL

Procedure after Replacing the WLAN MODULE.

When replaced of the WLAN MODULE(CX870-3B-D60), confirm contents of the following.

(1) Part numbers differ depending on the region of the WLAN MODULE.
Be sure to follow the table below when replacing the parts.

MODULE Name	Remarks	Part No.
CX870 MODULE ASSY (E3)	X1100E3	943189100770D
CX870 MODULE ASSY (E2/E1)	E2/E1	943189100780D
CX870 MODULE ASSY (E1C)	E1C	943189100790D
CX870 MODULE ASSY (JP)	K	943189100800D
CX870 MODULE ASSY (S700S)	S700W	943189100760D

(2) With DPMS or USB memory, update firmware.
See "**Firmware Update Procedure**"(54 page)"**1.Updating by USB**" or "**2.Updating by DPMS**"

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 Replace-ment	Remark
DIGITAL	IC722	MX25L3206EM2I-12G	B	SOFTWARE: GUI ROM
DIGITAL	IC751	R5F56108VNFP	B	SOFTWARE: Main
DIGITAL	IC773	5M80ZT100C5N	B	SOFTWARE: AUDIO PLD
DIGITAL	IC782	MX25L1606EM2I-12G	B	SOFTWARE: DSP ROM

Procedure after Replacement

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

FIRMWARE UPDATE PROCEDURE

1. Updating by USB

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

1.1. Connecting to the USB Memory

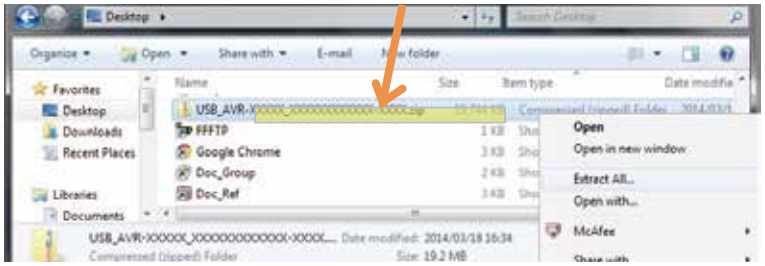
(1) Preparation

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

1.2. Unzip Download File

Unzip the downloaded file on your computer.

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



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

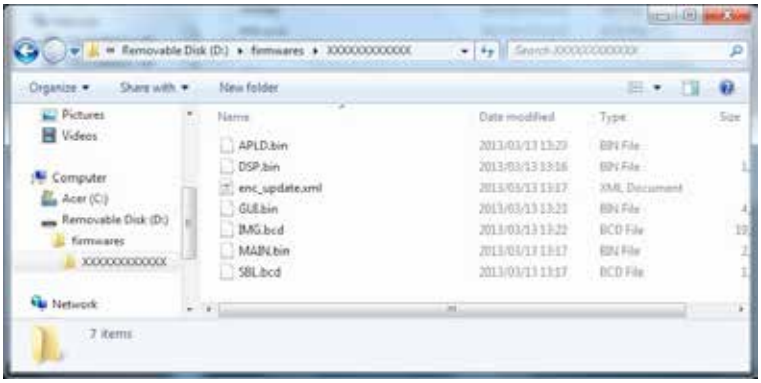
1.3. File structure on USB Memory

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

USB memory root

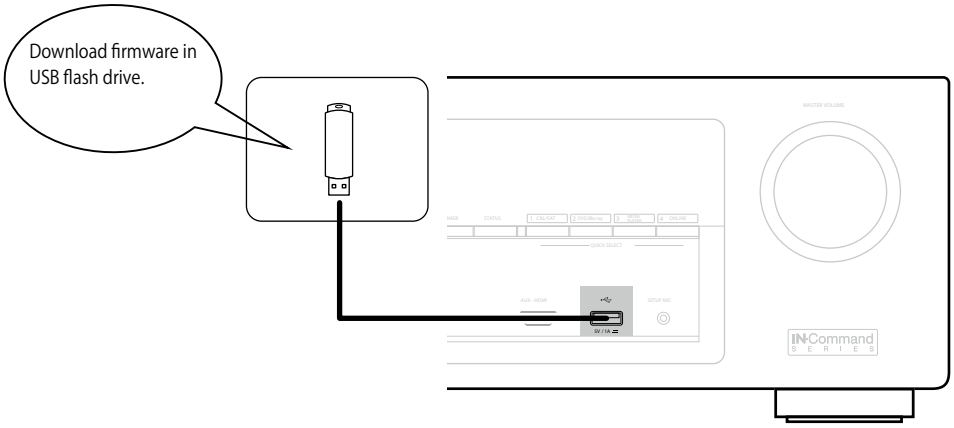
Model Name	Model Area	Product ID
AVR-X1100WE3	North America (E3)	000100670100
AVR-X1100WE2/E1	Europe (E2)/Asia (E1)	000100670200
AVR-X1100WE1C	China (E1C)	000100670500
AVR-X1100WK	Japan (JP)	000100670400
AVR-S700WE3	North America (E3)	000100670700

+ firmwares
  + 000100XXXXXX
    + APLD.bin
    + DSP.bin
    + enc_update.xml
    + GUI.bin
    + IMG.bcd
    + MAIN.bin



1.4. Insert the USB memory in the USB port.

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



1.5. Start the update.

AVR-X1100W

・Hold down buttons "**TUNER PRESET CH +**" and "**STATUS**" at the same time and press the power button to turn on the power.

AVR-S700W

・Hold down buttons "**ZONE2 SOURCE**" and "**TUNE +**" at the same time and press the power button to turn on the power.

1.6. Display during USB update

The following message appears on the display after around 30 seconds

Display

FLD	U	S	B		U	p	d	a	t	e		S	t	a	r	t

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

Then start Firmware Update.

Display

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

1.8. The firmware update finishes.

The following message appears on the display:

Display

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

--- Precautions for Updates ---

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

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

1.9 Forced USB All Device Write Mode

1.9.1. Actions

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

1.9.2. Operations

AVR-X1100W

Press the "**TUNER PRESET CH +**" and "**STATUS**" buttons simultaneously while inserting the AC plug to turn the power on.

AVR-S700W

Press the "**ZONE2 SOURCE**" and "**TUNE +**" buttons simultaneously while inserting the AC plug to turn the power on.

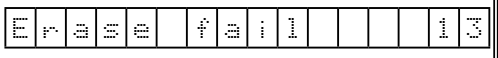
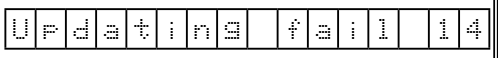
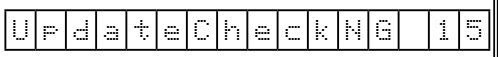
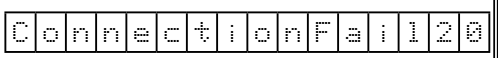
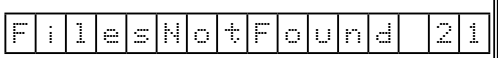
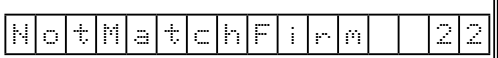
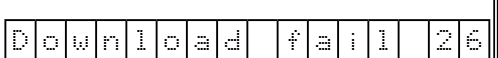
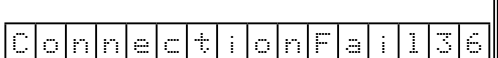
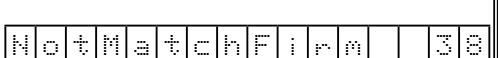
1.9.2. The firmware update finishes.

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

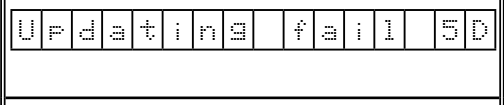
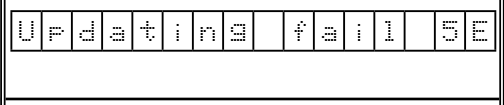
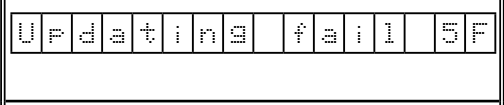
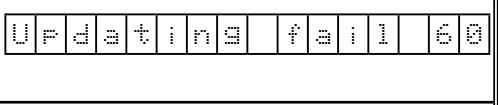
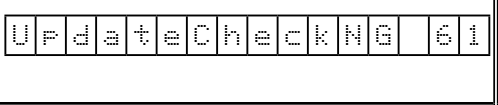
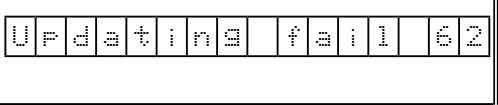
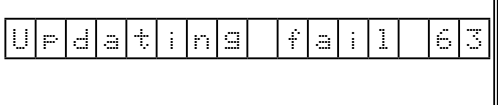
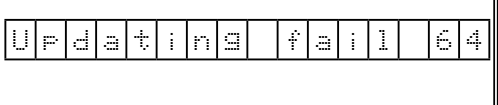
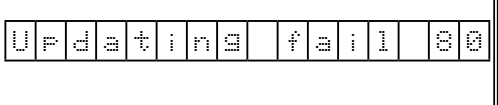
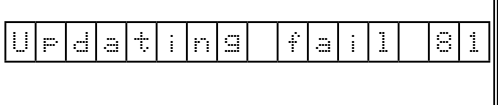
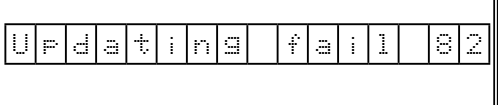
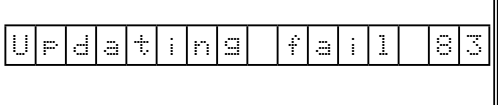
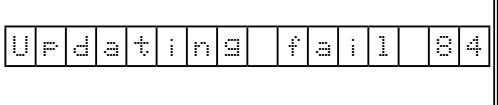
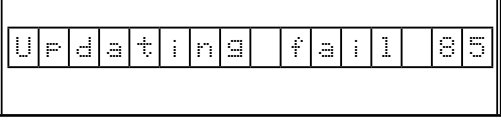
1.10.About the error code

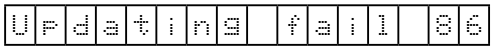
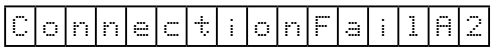
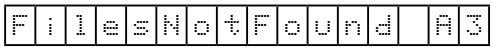
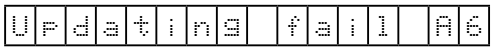
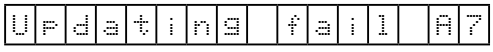
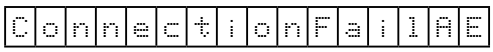
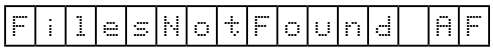
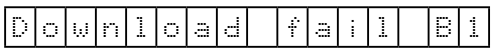
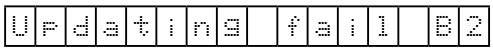
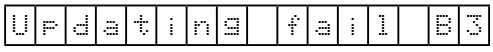
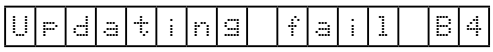
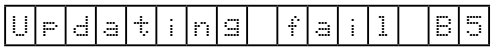
See the table below for error codes and details of faults when the firmware is updated through USB memory.

Error Code	Details of Error code	Display	Coping strategies
01	Unable to detect USB.	ConnectionFai101	Disconnect and connect the USB memory.
02	No FirmwareFile in USB.	FilesNotFound 02	Make sure that the FirmwareFile is in the USB memory.
03	FirmwareFile in USB for unsupported Model name/area.	NotMatchFirm 03	Check the supported Model name/area for the FirmwareFile.
04	Failed to obtain individual Firmware information.	ConnectionFai106	Start the USB Update again.
05	TimeOut while obtaining individual Firmware information.	ConnectionFai107	Start the USB Update again.
06	Failed to obtain entire Firmware information.	ConnectionFai104	Start the USB Update again.
07	TimeOut while obtaining entire Firmware information.	ConnectionFai105	Start the USB Update again.
08	Error notification received while requesting FirmwareInfo.	ConnectionFai108	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
09	TimeOut while obtaining Firmware information.	ConnectionFai109	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
0A	Unable to detect USB for FirmwareDownload.	ConnectionFai10A	Disconnect and connect the USB memory.
0B	No FirmwareFile for FirmwareDownload.	FilesNotFound 0B	Disconnect and connect the USB memory.
0D	Received value with invalid PackageVersion.	ConnectionFai10D	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
10	No UpdatePacket received from CX870 (TimeOut).	Updating fail 10	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
11	Abnormal data in UpdatePacket received from CX870 (FormatError).	Updating fail 11	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
12	Abnormal data in UpdatePacket received from CX870 (CheckSumError).	Updating fail 12	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
13	BlockErase failed before rewriting Main.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
14	BlockWrite failed while rewriting Main.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
15	Error in Verify after rewriting Main (CheckSumError).		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
20	Unable to detect USB after SBLMode.		Disconnect and connect the USB memory.
21	No FirmwareFile in USB after SBLMode.		Disconnect and connect the USB memory.
22	FirmwareFile in USB after SBLMode for unsupported Model name/area.		Check the supported Model name/area for the FirmwareFile.
23	Failed to obtain entire Firmware information after SBLMode.		Disconnect and connect the USB memory.
24	TimeOut while obtaining entire Firmware information after SBLMode.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
25	Failed to transit to SBLMode.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
26	TimeOut in Download (writing to SDRAM) for FirmwareDownload.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
27	Failed to write to EEPROM after SBLMode.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
36	Unable to detect USB.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
37	No FirmwareFile in USB.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
38	FirmwareFile in USB for unsupported Model name/area.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
39	TimeOut in USBCheck.	ConnectionFai139	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
3A	Unable to detect USB for FirmwareDownload.	ConnectionFai13A	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
3B	No FirmwareFile for FirmwareDownload.	FilesNotFound 3B	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
3F	Failed to transit to SBLMode.	ConnectionFai13F	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
50	Unable to detect USB.	ConnectionFai150	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
51	No FirmwareFile in USB.	FilesNotFound 51	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
52	FirmwareFile in USB for unsupported Model name/area.	NotMatchFirm 52	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
54	Error notification received while requesting FirmwareInfo.	Updating fail 54	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
55	TimeOut while obtaining Firmware information.	Updating fail 55	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
56	Unable to detect USB for FirmwareDownload.	ConnectionFai156	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
57	No FirmwareFile for FirmwareDownload.	FilesNotFound 57	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
5A	Invalid DeviceID in response or no response from Sub for C command.	ConnectionFai15A	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
5B	NACK received in response or no response from Sub for L command.	Updating fail 5B	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
5C	No UpdatePacket received from CX870 (TimeOut).	Updating fail 5C	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
5D	Abnormal data in UpdatePacket received from CX870 (FormatError).		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
5E	Abnormal data in UpdatePacket received from CX870 (CheckSumError).		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
5F	Abnormal data in UpdatePacket received from CX870 (DataLength/DataNo).		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
60	NACK received in response or no response from Sub for P command.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
61	Mismatched CheckSum in response or no response from Sub for I command.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
62	Failed to start up Sub in PowerOn sequence during Update.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
63	Failed to transit to ApplicationMode.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
64	Failed to transit to BootLoaderMode.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
80	WriteEnableLatchBit not set in Read after issuing WREN command.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
81	BlockErase failed in Read after issuing BE command.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
82	No UpdatePacket received from CX870 (TimeOut).		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
83	Abnormal data in UpdatePacket received from CX870 (FormatError).		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
84	Abnormal data in UpdatePacket received from CX870 (CheckSumError).		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
85	Abnormal data in UpdatePacket received from CX870 (DataLength/DataNo).		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.

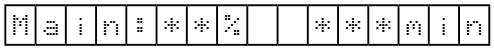
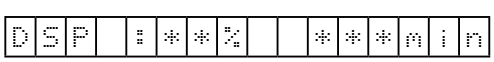
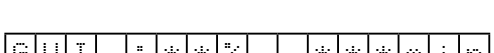
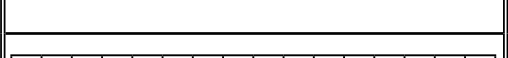
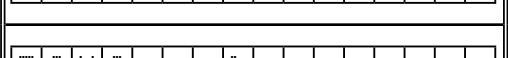
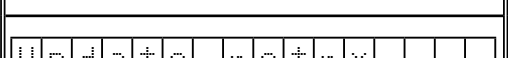
Error Code	Details of Error code	Display	Coping strategies
86	Mismatched CheckSum in Check-Sum comparison after rewriting.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
A2	Unable to detect USB.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
A3	No FirmwareFile in USB.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
A4	FirmwareFile in USB for unsupported Model name/area.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
A6	Error notification received while requesting FirmwareInfo.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
A7	TimeOut while obtaining Firmware information.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
AE	Unable to detect USB for FirmwareDownload.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
AF	No FirmwareFile for Firmware-Download.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
B1	TimeOut in Download (writing to SDRAM) for FirmwareDownload.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
B2	Error notification received after rewriting CX870 Firm.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
B3	Error in FirmwareUpdate (Time-Out).		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
B4	Failed to transit to BootLoader-Mode.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.
B5	Failed to transit to Application-Mode.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "Power operation" button for five seconds.

---Check the firmware version after updating.---

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

1.11. Device display during firmware update

Display of target device during firmware update.

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

Checking the Firmware Version After an Update

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

2. Updating by DPMS

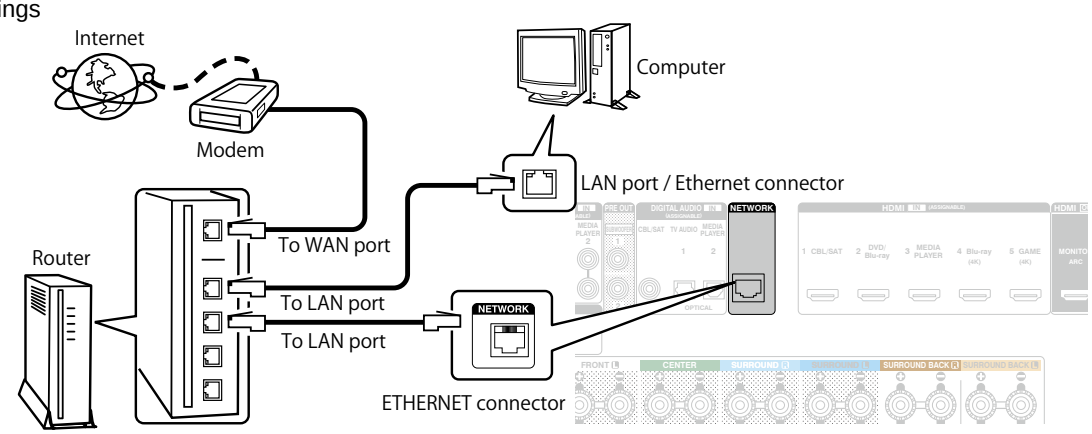
Download the latest firmware from the internet and update the firmware.

2.1. Network Connection

(1) System Requirements

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

(2) Settings



2.2. Check and update the firmware

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

(1) Press the button "**SETUP**" on the remote control to display the GUI menu.

(2) Press the cursor button to select "**General**" → "**Firmware**" → "**Update**" → "**Check Update**".

(3) Press the button "**ENTER**".

- The latest firmware version uploaded to our website is displayed.
- Proceed to (4) if new firmware is available on our website.
- If the latest firmware is already installed, press the button "**SETUP**" to exit the menu.

(4) Select "**Start**" using the cursor buttons and then press "**ENTER**".

- The power display lights in red and the GUI screen display disappears during the update.
  The remaining time of the update is shown on the display of the unit.
- The normal status resumes after the update is completed.

--- Precautions for Updates ---

- The environment and settings must allow connection to broadband Internet for updates.
- Never turn off the power before an update is completed.
- It takes around 1 hour to complete the update.

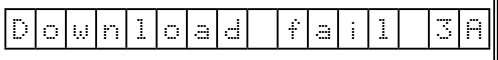
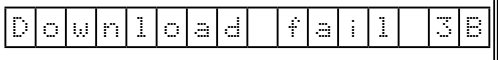
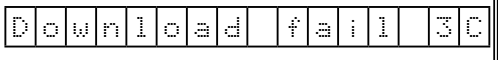
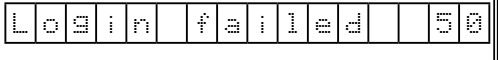
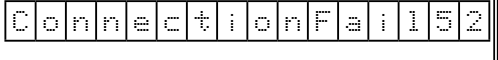
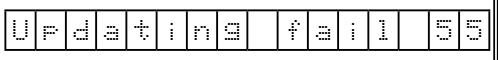
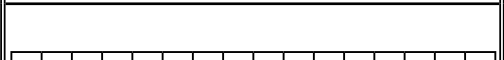
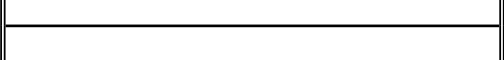
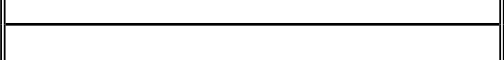
Once an update is started, normal operations cannot be performed until it is completed.
The GUI menu settings and image adjustment settings of this unit may be initialized.
Take note of your settings beforehand and reconfigure them after the update.

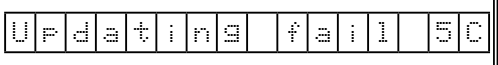
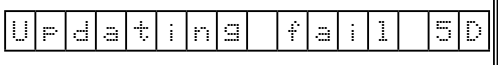
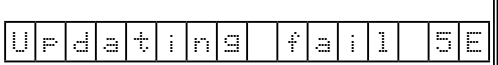
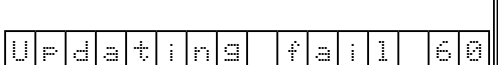
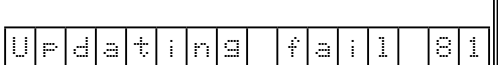
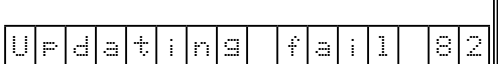
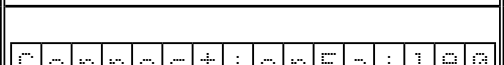
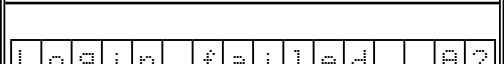
2.3. About the error code

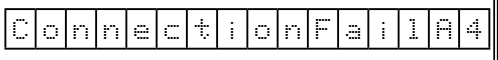
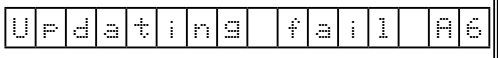
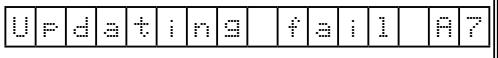
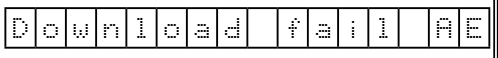
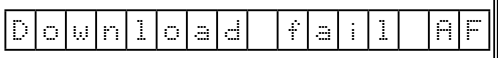
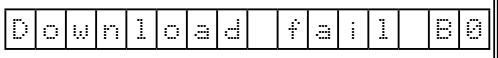
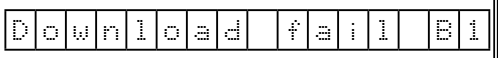
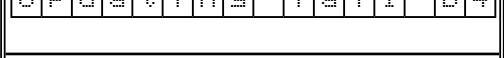
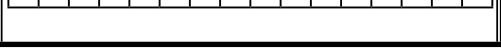
See the following table for details on the error code, details of the error code, display and coping strategies when updating the firmware from DPMS. (DPMS:Denon Product Management Server).

Error Code	Details of Error code	Display	Coping strategies
01	Failed to log in to DPMS.	Login failed 01	Initialize the unit and try updating again. Update in an environment where there is a small network load.
02	Line etc. is congested when logging in to DPMS.	Server is busy02	Update in an environment where there is a small network load.
03	Connection to DPMS failed.	ConnectionFail03	Check the network connection. Update in an environment where there is a small network load.
04	Firmware file data was requested but error message was received.	ConnectionFail04	Check the network connection. Update in an environment where there is a small network load.
05	Firmware file data was requested but it timed out.	ConnectionFail05	Check the network connection. Update in an environment where there is a small network load.
06	Firmware file data was requested but error message was received.	ConnectionFail06	Check the network connection. Update in an environment where there is a small network load.
07	All firmware file information was requested but a timeout occurred.	ConnectionFail07	Check the network connection. Update in an environment where there is a small network load.
08	Main CPU firmware file information was requested but error message was received.	ConnectionFail08	Check the network connection. Update in an environment where there is a small network load.
09	Main CPU firmware file information was requested but error message was received.	ConnectionFail09	Check the network connection. Update in an environment where there is a small network load.
0A	Error (NG) message was received when firmware of Main CPU was downloaded.	Download fail 0A	Check the network connection. Update in an environment where there is a small network load.
0B	Error (line congestion) message was received when firmware of Main CPU was downloaded.	Download fail 0B	Check the network connection. Update in an environment where there is a small network load.
0C	Error (connection failure) message was received when firmware of Main CPU was downloaded.	Download fail 0C	Check the network connection. Update in an environment where there is a small network load.
0D	Received an invalid pacage version.	Download fail 0D	Check the network connection. Update in an environment where there is a small network load.
0E	Connection to DPMS failed. (Cannot get NTP)	ConnectionFail0E	Check the network connection. Update in an environment where there is a small network load.
10	Main CPU failed to receive firmware for rewriting sent from CX870 (when timed out).	Updating fail 10	Turn on the power again. Update will start automatically.

Error Code	Details of Error code	Display	Coping strategies
11	Main CPU failed to receive firmware for rewriting sent from CX870 (when an error occurred).	Updating fail 11	Turn on the power again. Update will start automatically.
12	Firmware for rewriting sent from CX870 received by the Main CPU contained corrupt data (Check Sum error occurred).	Updating fail 12	Turn on the power again. Update will start automatically.
13	The erasing of block data failed before Main CPU was rewritten.	Erase fail 13	Turn on the power again. Update will start automatically.
14	The rewriting of block data failed when Main CPU was rewritten.	Updating fail 14	Turn on the power again. Update will start automatically.
15	Data was found to be corrupt during verification after the Main CPU was rewritten.	UpdateCheckNG 15	Turn on the power again. Update will start automatically.
20	Failed to acquire the IP address before CX870 rewrite (Boot Loader Mode). (Auto IP)	ConnectionFai120	Check the network connection. Update in an environment where there is a small network load.
21	Failed to acquire the IP address before CX870 rewrite (Boot Loader Mode). (when timed out)	ConnectionFai121	Check the network connection. Update in an environment where there is a small network load.
22	Failed to log in to DPMS.	Login failed 22	Initialize the unit and try updating again. Update in an environment where there is a small network load.
23	Line etc. is congested when logging in to DPMS.	Server is busy23	Update in an environment where there is a small network load.
24	Connection to DPMS failed.	ConnectionFai124	Check the network connection. Update in an environment where there is a small network load.
25	Failed to change the CX870 mode.	ConnectionFai125	Initialize the unit and try updating again.
26	Timeout occurred obtaining data when downloading the Main CPU firmware.Received an invalid pacage version. Received an invalid pacage version.	Download fail 26	Check the network connection. Update in an environment where there is a small network load.
27	Failed to change the CX870 mode.	Download fail 27	Initialize the unit and try updating again.
36	Log in to DPMS failed when rewriting the Main CPU.	Login failed 36	Update in an environment where there is a small network load.
37	Unit logs in to DPMS but the line etc. is congested when rewriting the Main CPU.	Server is busy37	Update in an environment where there is a small network load.
38	Connect to DPMS failed when rewriting the Main CPU.	ConnectionFai138	Check the network connection. Update in an environment where there is a small network load.

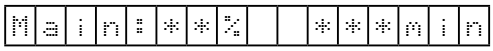
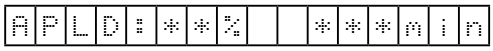
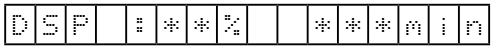
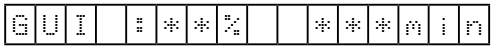
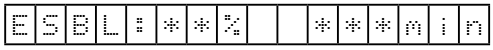
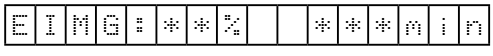
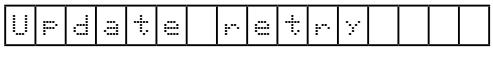
Error Code	Details of Error code	Display	Coping strategies
39	Connection to DPMS has timed out when rewriting the Main CPU.		Check the network connection. Update in an environment where there is a small network load.
3A	Error (NG) notification was received when downloading firmware for rewriting the Main CPU.		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
3B	Error notification (line congestion) was received when downloading firmware for rewriting the Main CPU.		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
3C	Error notification (connection failure) was received when downloading firmware for rewriting the Main CPU.		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
3D	Failed to acquire the IP address (Auto IP) before CX870 rewrite (Boot Loader Mode).		Check the network connection. Update in an environment where there is a small network load.
3E	Failed to acquire the IP address before CX870 rewrite (Boot Loader Mode) (timed out).		Check the network connection. Update in an environment where there is a small network load.
50	Log in to DPMS failed when rewriting the DSP, PLD etc. firmware.		Update in an environment where there is a small network load.
51	Unit logs in to DPMS to rewrite the DSP, PLD etc. firmware, but the line etc. is congested.		Update in an environment where there is a small network load.
52	Connect to DPMS failed when rewriting the DSP, PLD etc. firmware.		Check the network connection. Update in an environment where there is a small network load.
54	Unit logs in to DPMS to rewrite the DSP, PLD etc. firmware, but error was received as firmware information.		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
55	Unit logs in to DPMS to rewrite the DSP, PLD etc. firmware, but logged into DPMS and requested firmware data information but a timeout occurred.		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
56	Unit logs in to DPMS to rewrite the DSP, DLP etc. firmware, but failed to download the firmware.		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
57	Unit logs in to DPMS to rewrite the DSP, DLP etc. firmware, but download firmware error was received (line congestion).		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
58	Unit logs in to DPMS to rewrite the DSP, DLP etc. firmware, but download firmware error was received (connection failure).		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
5A	NACK was received when "C" command was sent to DSP, PLD etc.		Turn on the power again. Update will start automatically.
5B	NACK was received when "L" command was sent to DSP, PLD etc.		Turn on the power again. Update will start automatically.

Error Code	Details of Error code	Display	Coping strategies
5C	DSP, PLD etc. failed to receive the firmware for rewriting sent from CX870 (when timed out).		Turn on the power again. Update will start automatically.
5D	DSP, PLD etc. failed to receive the firmware for rewriting sent from CX870 (when an error occurred).		Turn on the power again. Update will start automatically.
5E	DSP, PLD etc. receive the corrupted firmware data for rewriting sent from CX870 (when the Check Sum error occurred).		Turn on the power again. Update will start automatically.
5F	DSP, PLD etc. receive the corrupted firmware data for rewriting sent from CX870 (invalid data was received).		Turn on the power again. Update will start automatically.
60	NACK was received when "P" command was sent to DSP, PLD etc.		Turn on the power again. Update will start automatically.
61	NACK was received when "I" command was sent to DSP, PLD etc.		Turn on the power again. Update will start automatically.
80	Failed to obtain flash information before erasing the flash.		Turn on the power again. Update will start automatically.
81	Failed to erase the data before rewriting the flash.		Turn on the power again. Update will start automatically.
82	Failed to receive the serial flash firmware for rewriting sent from CX870 (when timed out).		Turn on the power again. Update will start automatically.
83	Failed to receive the serial flash firmware for rewriting sent from CX870 (when an error occurred).		Turn on the power again. Update will start automatically.
84	Failed to receive the serial flash firmware for rewriting sent from CX870 (when the Check Sum error occurred).		Turn on the power again. Update will start automatically.
85	Failed to receive the the serial flash firmware for rewriting sent from CX870 (invalid data was received).		Turn on the power again. Update will start automatically.
86	Data was found to be corrupt during verification after the flash was rewritten.		Turn on the power again. Update will start automatically.
A0	Failed to acquire the IP address (AutoIP) before CX870 rewrite (Application Mode).		Check the network connection. Update in an environment where there is a small network load.
A1	Failed to acquire the IP address before CX870 rewrite (Application Mode) (whern timed out).		Check the network connection. Update in an environment where there is a small network load.
A2	Unauthorized login DPMS access notification was received when rewriting the CX870 related firmware (Application Mode).		Check the network connection. Update in an environment where there is a small network load.

Error Code	Details of Error code	Display	Coping strategies
A3	Notified that the access to the DPMS is congested line, when rewriting the CX870 system (Application Mode).		Check the network connection. Update in an environment where there is a small network load.
A4	Notified that the access to the DPMS connection is failed, when rewriting the CX870 system (Application Mode).		Check the network connection. Update in an environment where there is a small network load.
A6	Logged into DPMS and error was received as firmware information, when rewriting the CX870 system (Application Mode).		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
A7	Logged into DPMS and requested firmware data information but a timeout occurred when when rewriting the CX870 system (Application Mode).		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
AE	Error notification was received when downloading firmware for rewriting the CX870 system (when failed to download).		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
AF	Error notification was received when downloading firmware for rewriting the CX870 system (Boot Loader Mode) (line congestion).		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
B0	Error notification was received when downloading firmware for rewriting the CX870 system (Boot Loader Mode) (When a connection failed).		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
B1	Firmware downloding error notification was received (Timeout failure).		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
B2	Error notification was received when rewriting the CX870 system firmware.		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
B3	Notification is failed to rewriting the firmware (Timeout failure).		Turn on the power again. Update will start automatically. Update in an environment where there is a small network load.
B4	Failed to change the CX870 system mode. (Boot Loader Mode)		Initialize the unit and try updating again.
B5	Failed to change the CX870 system mode. (Application Mode)		Initialize the unit and try updating again.

Device display during firmware update

Display of target device during firmware update.

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

Checking the Firmware Version After an Update

After updating the firmware, check the version.

See "**1. Version Display Mode**" (18 page).

ADJUSTMENT

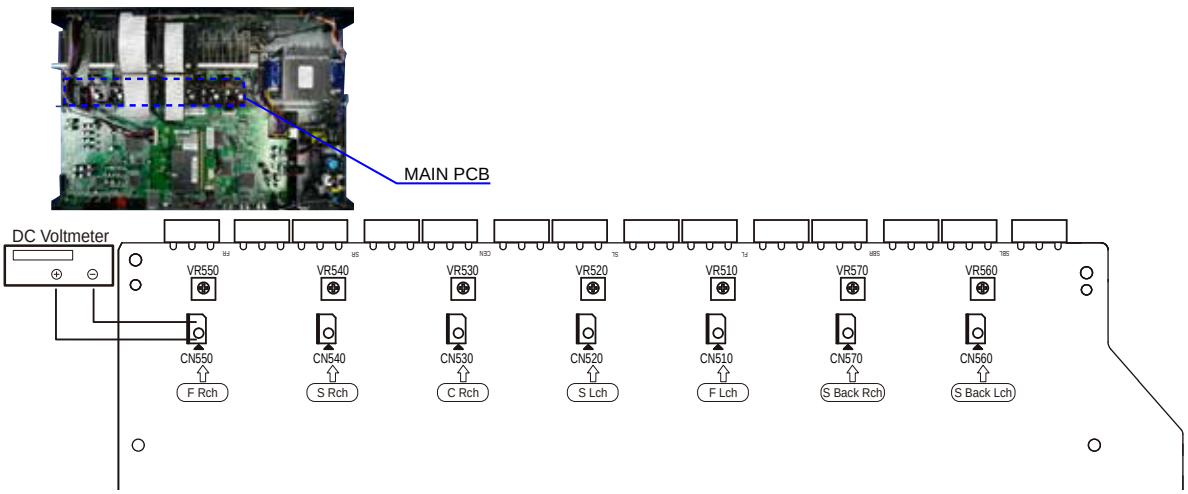
Adjusting Idling Current

1. Preparation

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

2. Adjustment Procedure

(1) Remove the top cover and turn VR550, VR540, VR530, VR520, VR510, VR570 and VR560 of the AMP PCB as far anticlockwise(↺) as possible.
(2) Connect the DC Voltmeter test points.
FRONT-Lch ：CN510
FRONT-Rch ：CN550
CENTER ch ：CN530
SURROUND-Lch ：CN520
SURROUND-Rch ：CN540
SURROUND-BACK Lch ：CN560
SURROUND-BACK Rch ：CN570
(3) Connect the power cord to an outlet. Next, press the power button to turn on the power.
(4) Set this unit as follows.
MASTER VOLUME : "---" anticlockwise (↺ min.)
SPEAKER (Speaker terminal)：No load
(Do not connect equipment such as speakers or dummy resistors.)
MODE ：MCH STEREO
FUNCTION ：DVD
(5) Turn VR550 clockwise (↻) and adjust the voltage of the test point to "**6.0mV ± 0.5mV DC**" within 2 minutes.
(6) 10 minutes after the preliminary adjustment, turn VR550 and set the voltage as "**8.0mV ± 0.5mV DC**".
(7) Adjust the variable resistance of each channel using the same method.



SURROUND MODES AND PARAMETERS

Sound modes and channel output

○This indicates the audio output channels or surround parameters that can be set.
◎ This indicates the audio output channels. The output channels depend on the settings of “Speaker Config.”. (☞ p. 174)

Sound mode (☞ p. 114)	Channel output					
	Front L/R	Center	Surround L/R	Surround back L/R	Front height L/R	Subwoofer
Direct/Pure Direct (2-channel)	○					◎*3
Direct/Pure Direct (Multi-channel)	○	◎	◎	◎*1	◎*1	◎
DSD Direct (2-channel)	○					
Stereo	○					◎
Multi Ch In	○	◎	◎	◎*1		◎
Dolby Pro Logic IIz	○	◎	◎		◎	◎
Dolby Pro Logic IIx	○	◎	◎	◎		◎
Dolby Pro Logic II	○	◎	◎			◎
DTS Neo:6	○	◎	◎	◎		◎
Dolby Digital	○	◎	◎	◎	◎*2	◎
Dolby Digital Plus	○	◎	◎	◎*1	◎*1	◎
Dolby TrueHD	○	◎	◎	◎*1	◎*1	◎
DTS Surround	○	◎	◎	◎	◎*2	◎
DTS 96/24	○	◎	◎	◎	◎*2	◎
DTS-HD	○	◎	◎	◎*1	◎*1	◎
DTS Express	○	◎	◎	◎	◎*2	◎
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 output when the set sound mode name contains “+PLIIz”.
*3 Audio is output when “Subwoofer Mode” in the menu is set to “LFE+Main”. (☞ p. 179)

Sound modes and surround parameters

Sound mode (☞ p. 114)	Surr.Parameter (☞ p. 145)									
	Dialog Level (☞ p. 144)	Subwoofer Level (☞ p. 144)	Cinema EQ (☞ p. 145)	Loudness Mngmt *1 (☞ p. 145)	Dynamic Comp. *2 (☞ p. 146)	Low Frequency *3 (☞ p. 146)	Delay Time (☞ p. 147)	Effect Level (☞ p. 147)	Room Size (☞ p. 148)	Height Gain *4 (☞ p. 148)
Direct/Pure Direct (2-channel) *5		○ *6		○	○					
Direct/Pure Direct (Multi-channel) *5	○	○		○	○					
Stereo		○		○	○	○				
Multi Ch In	○	○	○			○				○
Dolby Pro Logic IIz	○	○	○	○	○					○
Dolby Pro Logic IIx	○	○	○	○	○					
Dolby Pro Logic II	○	○	○	○	○					
DTS Neo:6	○	○	○	○	○					
Dolby Digital	○	○	○		○	○				○
Dolby Digital Plus	○	○	○		○	○				○
Dolby TrueHD	○	○	○	○	○	○				○
DTS Surround	○	○	○		○	○				○
DTS 96/24	○	○	○			○				○
DTS-HD	○	○	○			○				○
DTS Express	○	○	○			○				○
Multi Ch Stereo	○	○	○	○	○	○				
Rock Arena	○	○		○	○	○		○	○	
Jazz Club	○	○		○	○	○		○	○	
Mono Movie	○	○		○	○	○		○	○	
Video Game	○	○		○	○	○		○	○	
Matrix	○	○		○	○	○	○			
Virtual		○		○	○	○				

*1 - *6 : “Sound modes and surround parameters” (☞ p. 228)

Sound mode (☞ p. 114)	Surr.Parameter (☞ p. 145)				Tone Control *7 (☞ p. 111)	Audyssey (☞ p. 151)			Restorer *10 (☞ p. 149)
	Pro LogicII/IIx Music mode only			Neo: 6 Music mode only					
	Panorama (☞ p. 146)	Dimension (☞ p. 147)	Center Width (☞ p. 147)	Center Image (☞ p. 146)		MultEQ® XT *8 (☞ p. 151)	Dynamic EQ *9 (☞ p. 152)	Dynamic Volume *9 (☞ p. 153)	
Direct/Pure Direct (2-channel) *5									
Direct/Pure Direct (Multi-channel) *5									
Stereo						○	○	○	○
Multi Ch In					○	○	○	○	
Dolby Pro Logic IIz					○	○	○	○	○
Dolby Pro Logic IIx	○	○	○		○	○	○	○	○
Dolby Pro Logic II	○	○	○		○	○	○	○	○
DTS Neo:6				○	○	○	○	○	○
Dolby Digital					○	○	○	○	
Dolby Digital Plus					○	○	○	○	
Dolby TrueHD					○	○	○	○	
DTS Surround					○	○	○	○	
DTS 96/24					○	○	○	○	
DTS-HD					○	○	○	○	
DTS Express					○	○	○	○	
Multi Ch Stereo					○	○	○	○	○
Rock Arena					○ *11	○	○	○	○
Jazz Club					○	○	○	○	○
Mono Movie					○	○	○	○	○
Video Game					○	○	○	○	○
Matrix					○	○	○	○	○
Virtual					○	○	○	○	○

*5, *7 - *11: “Sound modes and surround parameters” (☞ p. 228)

*1 This item can be selected when a Dolby TrueHD signal is played.
*2 This item can be selected when Dolby TrueHD, Dolby Digital or DTS signal is played.
*3 This item can be selected when a Dolby Digital or DTS signal or DVD-Audio is played.
*4 This setting is available when the set sound mode name contains “+PLIIz”.
*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. 180)
*7 This item cannot be set when “Dynamic EQ” is set to “On”. (☞ p. 152)
*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. 151)
*10 This item can be set when the input signal is analog, PCM 48 kHz or 44.1 kHz.
*11 In this sound mode, bass is +6 dB, and treble is +4 dB. (Default)

Types of input signals, and corresponding sound modes

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

Sound mode (☞ p. 114)	NOTE	2-channel signal		Multi-channel signal									
		Analog /PCM	Dolby Digital (+/HD)/DTS (-HD)	PCM Multi	DTS-HD	DTS Express	DTS ES DSCRT 6.1	DTS ES MTRIX 6.1	DTS	Dolby TrueHD	Dolby Digital Plus	Dolby Digital EX	Dolby Digital
DTS Surround													
DTS-HD Mstr					●*6								
DTS-HD Hi Res					●*7								
DTS ES Dscrt6.1	*1						●						
DTS ES Mtrx6.1	*1							●					
DTS Surround									●				
DTS 96/24									●*8				
DTS (–HD) + PLIIx	*1*2				○	○			○				
DTS (–HD) + PLIIz	*3				○	○	○	○	○				
DTS Express						●							
DTS Neo:6	*4	○	○										
Dolby Surround													
Dolby TrueHD										●			
Dolby Digital+											●		
Dolby Digital EX	*1											○	○
Dolby (D+) (HD) + EX	*1									○	○		
Dolby Digital												●	●
Dolby (D) (D+) (HD) + PLIIx	*1*2									○	○	○	○
Dolby (D) (D+) (HD) + PLIIz	*3									○	○	○	○
Dolby Pro Logic II/IIx	*5	○	○										
Dolby Pro Logic IIz	*3	○	○										

*1 – *8 : “Types of input signals, and corresponding sound modes” (☞ p. 231)

Sound mode (☞ p. 114)	NOTE	2-channel signal		Multi-channel signal									
		Analog /PCM	Dolby Digital (+/HD)/DTS (-HD)	PCM Multi	DTS-HD	DTS Express	DTS ES DSCRT 6.1	DTS ES MTRIX 6.1	DTS	Dolby TrueHD	Dolby Digital Plus	Dolby Digital EX	Dolby Digital
Multi Ch In													
Multi Ch In				●									
Multi Ch In + Dolby EX	*1			○									
Multi Ch In + PLIIx	*1*2			○									
Multi Ch In + PLIIz	*3			○									
Multi Ch In 7.1	*1			●*10									
Direct													
Direct		○*9	○	○	○	○	○	○	○	○	○	○	○
Pure Direct													
Pure Direct		○	○	○	○	○	○	○	○	○	○	○	○
Original sound mode													
Multi Ch Stereo		○	○	○	○	○	○	○	○	○	○	○	○
Rock Arena		○	○	○	○	○	○	○	○	○	○	○	○
Jazz Club		○	○	○	○	○	○	○	○	○	○	○	○
Mono Movie		○	○	○	○	○	○	○	○	○	○	○	○
Video Game		○	○	○	○	○	○	○	○	○	○	○	○
Matrix		○	○	○	○	○	○	○	○	○	○	○	○
Virtual		○	○	○	○	○	○	○	○	○	○	○	○
Stereo													
Stereo		●	○	○	○	○	○	○	○	○	○	○	○

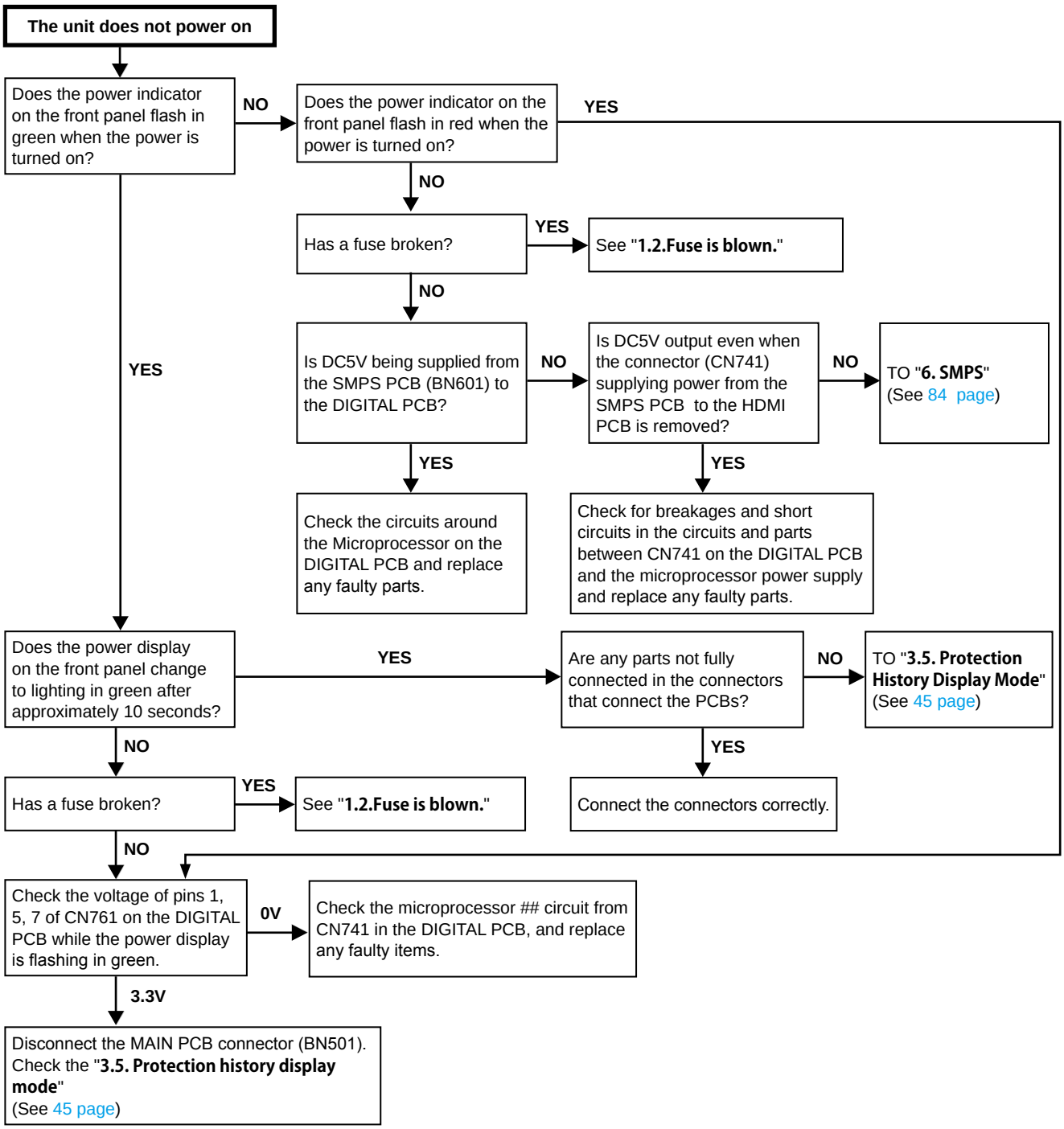
*1 – *3, *9, *10 : “Types of input signals, and corresponding sound modes” (☞ p. 231)

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

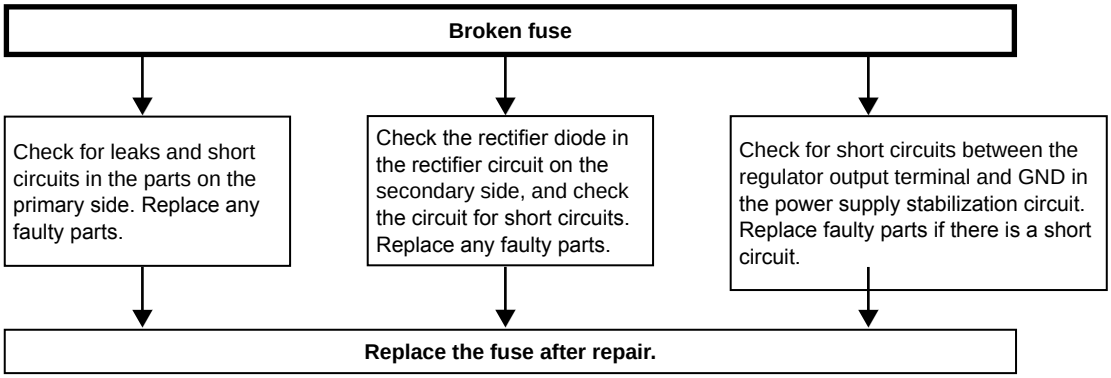
TROUBLE SHOOTING

1. POWER

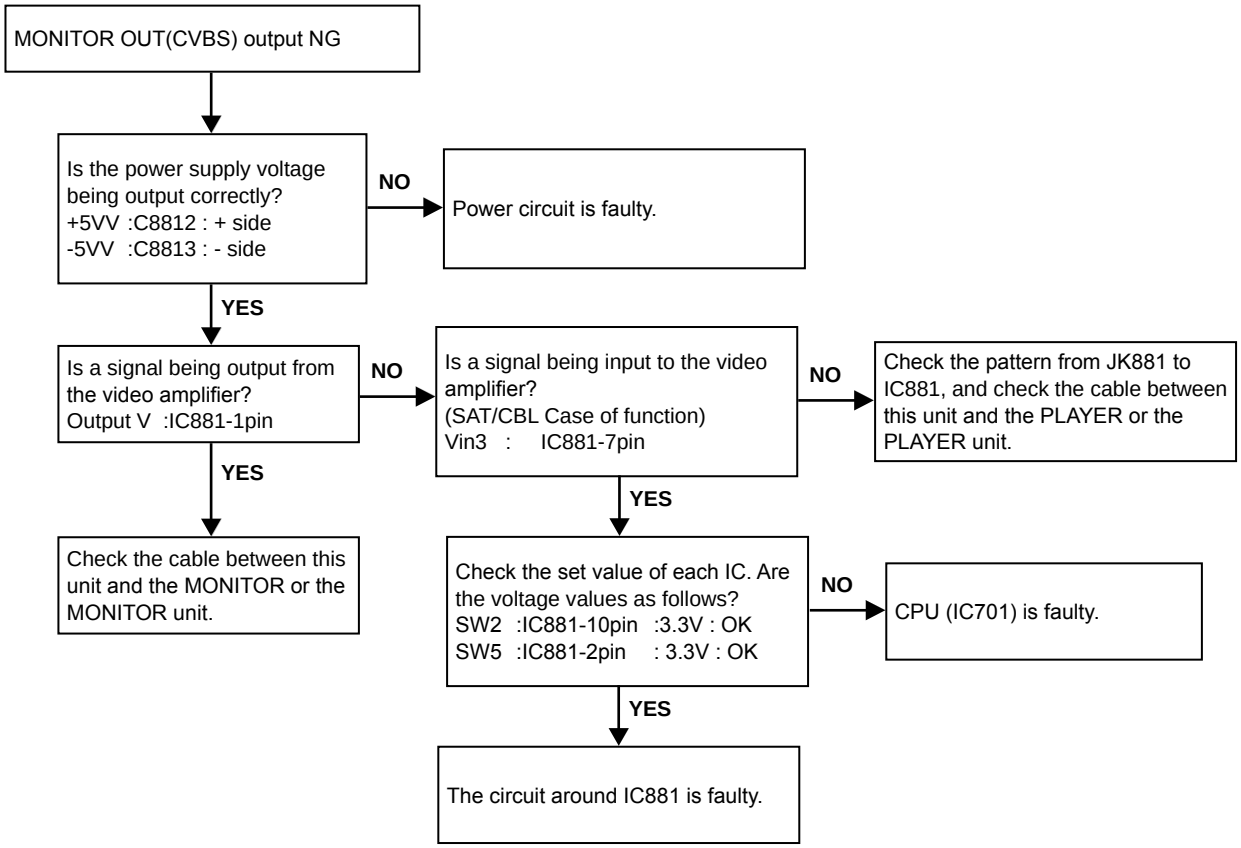
1.1. The unit does not power on



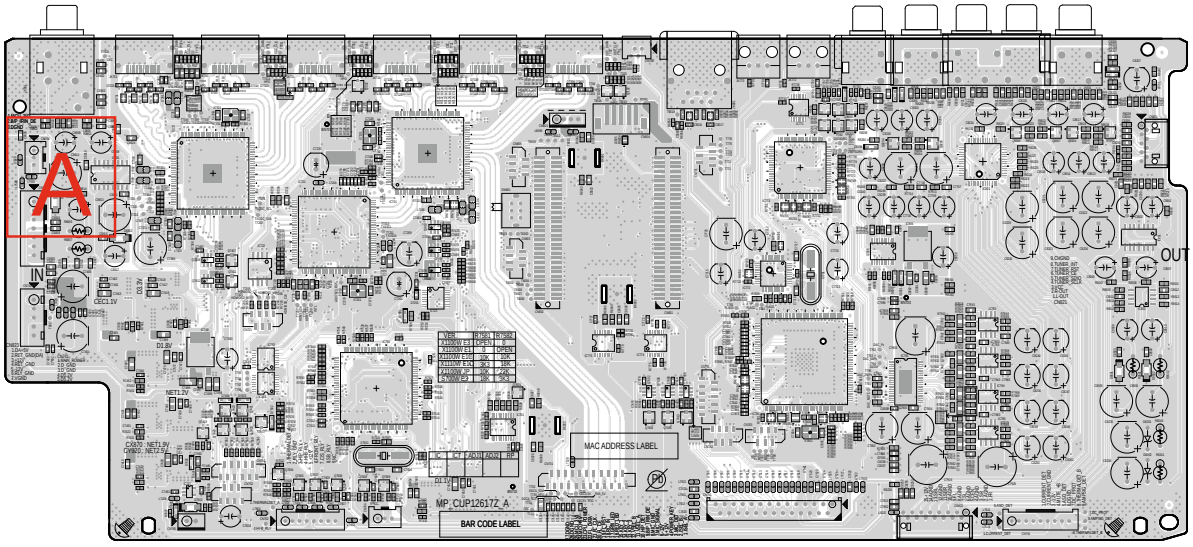
1.2. Fuse is blown



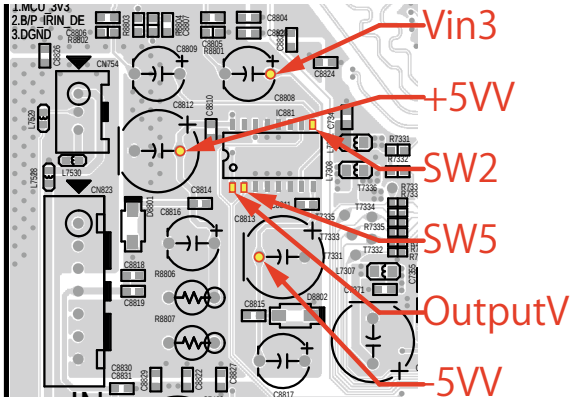
2. Analog video



VIDEO Test Points

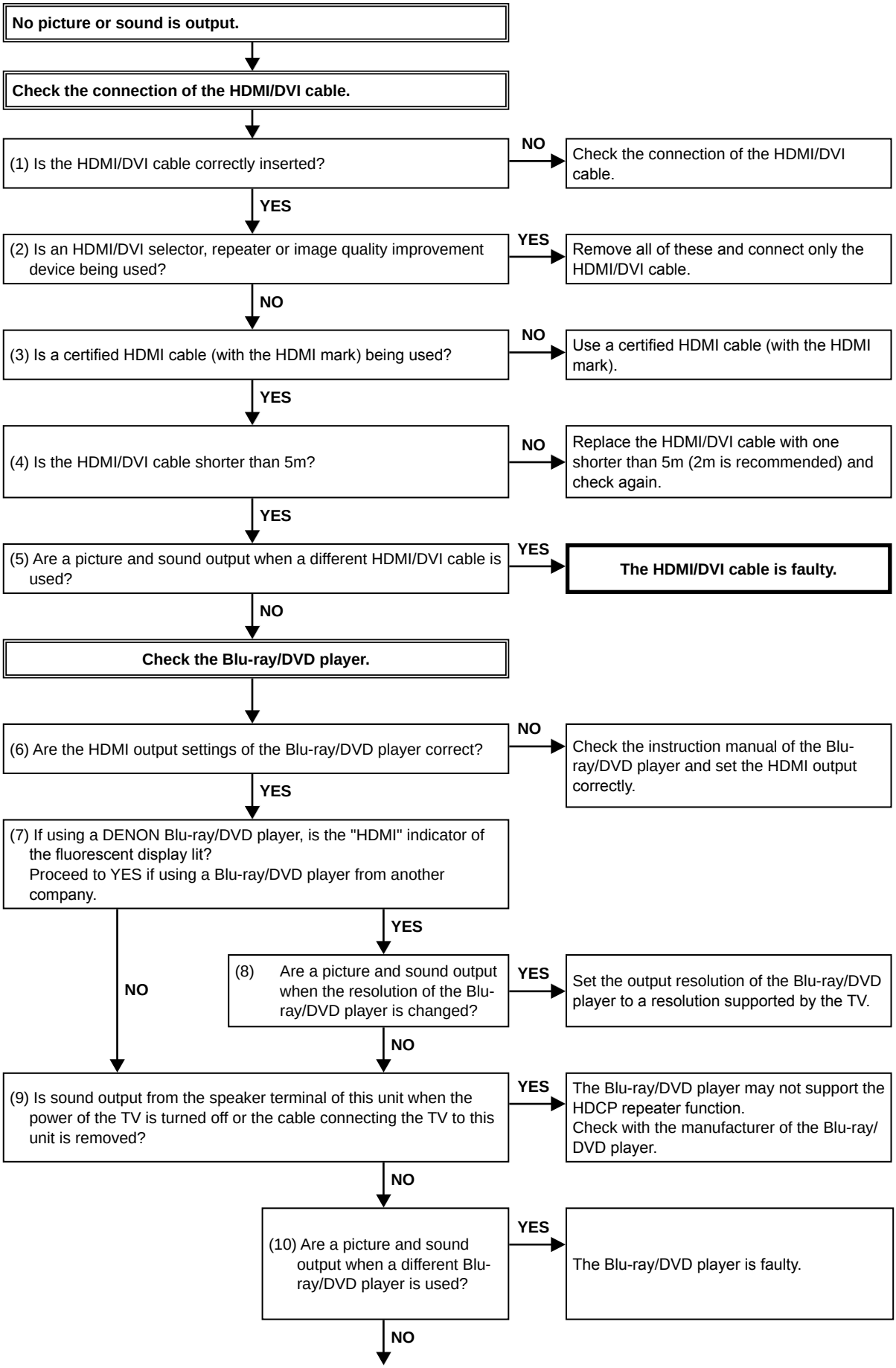


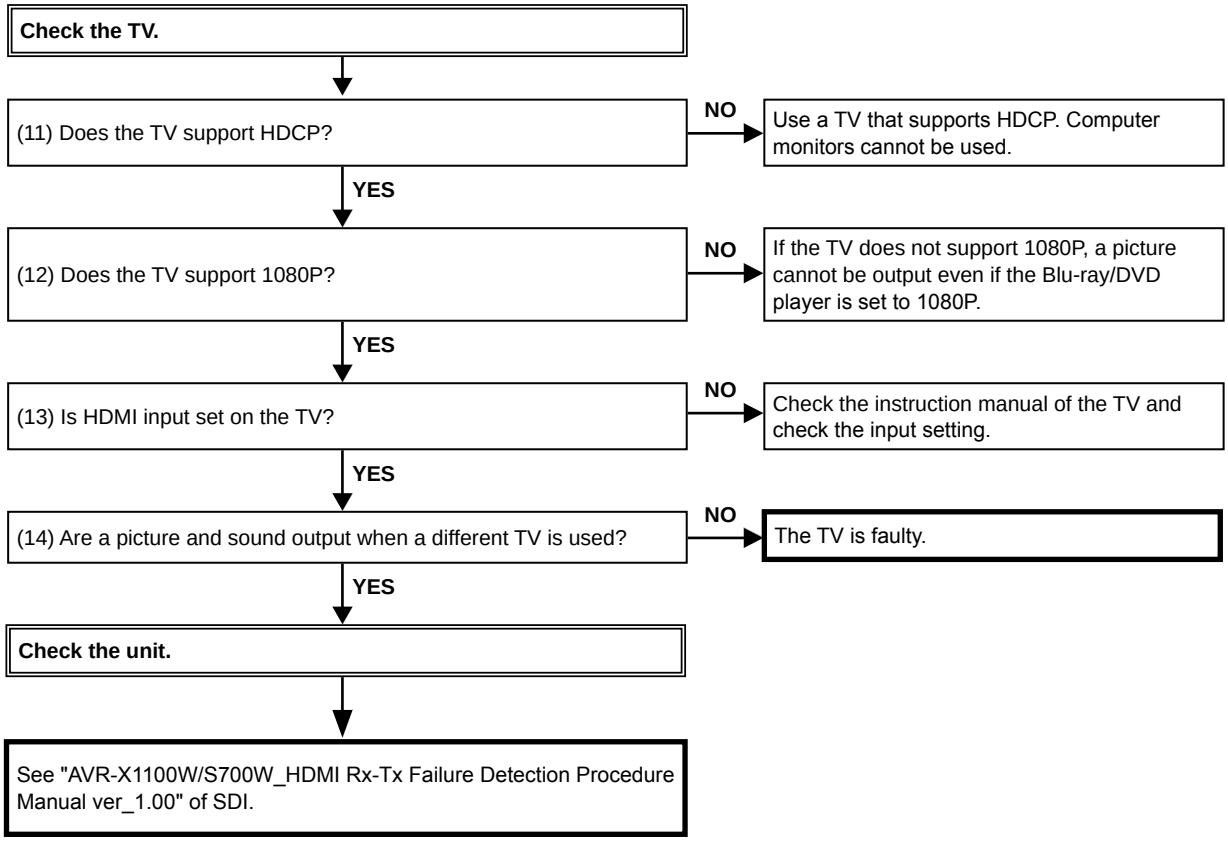
DIGITAL (COMPONENT SIDE)



3. HDMI/DVI

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




Check the TV.
(11) Does the TV support HDCP?
NO
Use a TV that supports HDCP. Computer monitors cannot be used.
YES
(12) Does the TV support 1080P?
NO
If the TV does not support 1080P, a picture cannot be output even if the Blu-ray/DVD player is set to 1080P.
YES
(13) Is HDMI input set on the TV?
NO
Check the instruction manual of the TV and check the input setting.
YES
(14) Are a picture and sound output when a different TV is used?
NO
The TV is faulty.
YES
Check the unit.
See "AVR-X1100W/S700W_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	DIAGNOSTIC PATH DIAGRAM
Audio output OK?	ANALOG 2CH	DIRECT	ANALOG	fig.7

NO → Check the ANALOG AUDIO BLOCK

YES

CHECK2	INPUT	SURROND MODE	SOURCE	DIAGNOSTIC PATH DIAGRAM
Audio output OK?	COAX or OPT	Don't care	Legacy (PCM or DolbyDigital or dts…)	fig.8

NO → Check the DIGITAL AUDIO BLOCK

YES

CHECK3	INPUT	SURROND MODE	SOURCE	DIAGNOSTIC PATH DIAGRAM
Audio output OK?	ANALOG 2CH	MULTICH STEREO	ANALOG	fig.10

NO → Check the ADC BLOCK

YES

CHECK4	INPUT	SURROND MODE	SOURCE	DIAGNOSTIC PATH DIAGRAM
Audio output OK?	HDMI	Don't care	Legacy (PCM2ch or DolbyDigital or dts…)	fig.4

NO → Check the HDMI BLOCK

YES

CHECK5	INPUT	SURROND MODE	SOURCE	DIAGNOSTIC PATH DIAGRAM
Audio output OK?	HDMI	Don't care	HBR audio (DolbyTrueHD or dtsHD MA)	fig.4

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

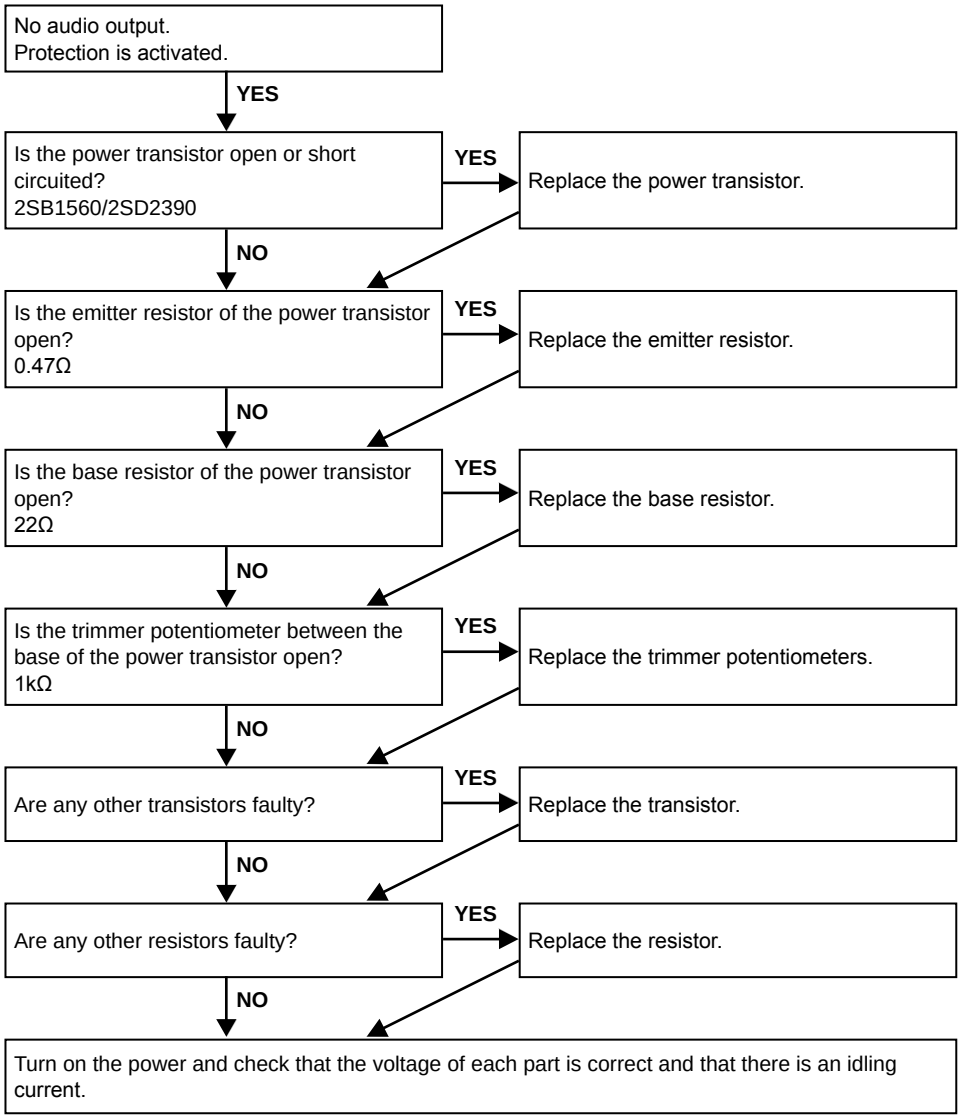
NO

CHECK6	INPUT	Connect		DIAGNOSTIC PATH DIAGRAM
AVR's (connected in HDMI) audio output OK?	HDMI	This unit's HDMI OUT → Other AVR's HDMI IN		fig.5
	Setting	SURROND MODE	SOURCE	
	CEC STANDBY	Don't care	HBR audio (DolbyTrueHD or dtsHD MA)	

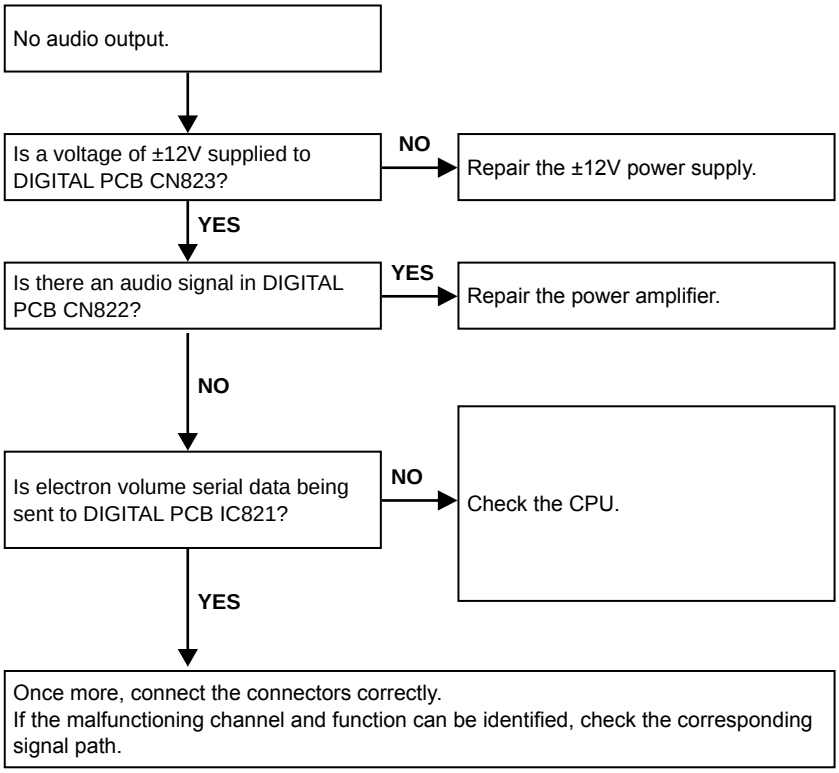
YES → Check the DIGITAL AUDIO BLOCK

NO → Check the HDMI BLOCK

4.2. Power AMP (AMP PCB)

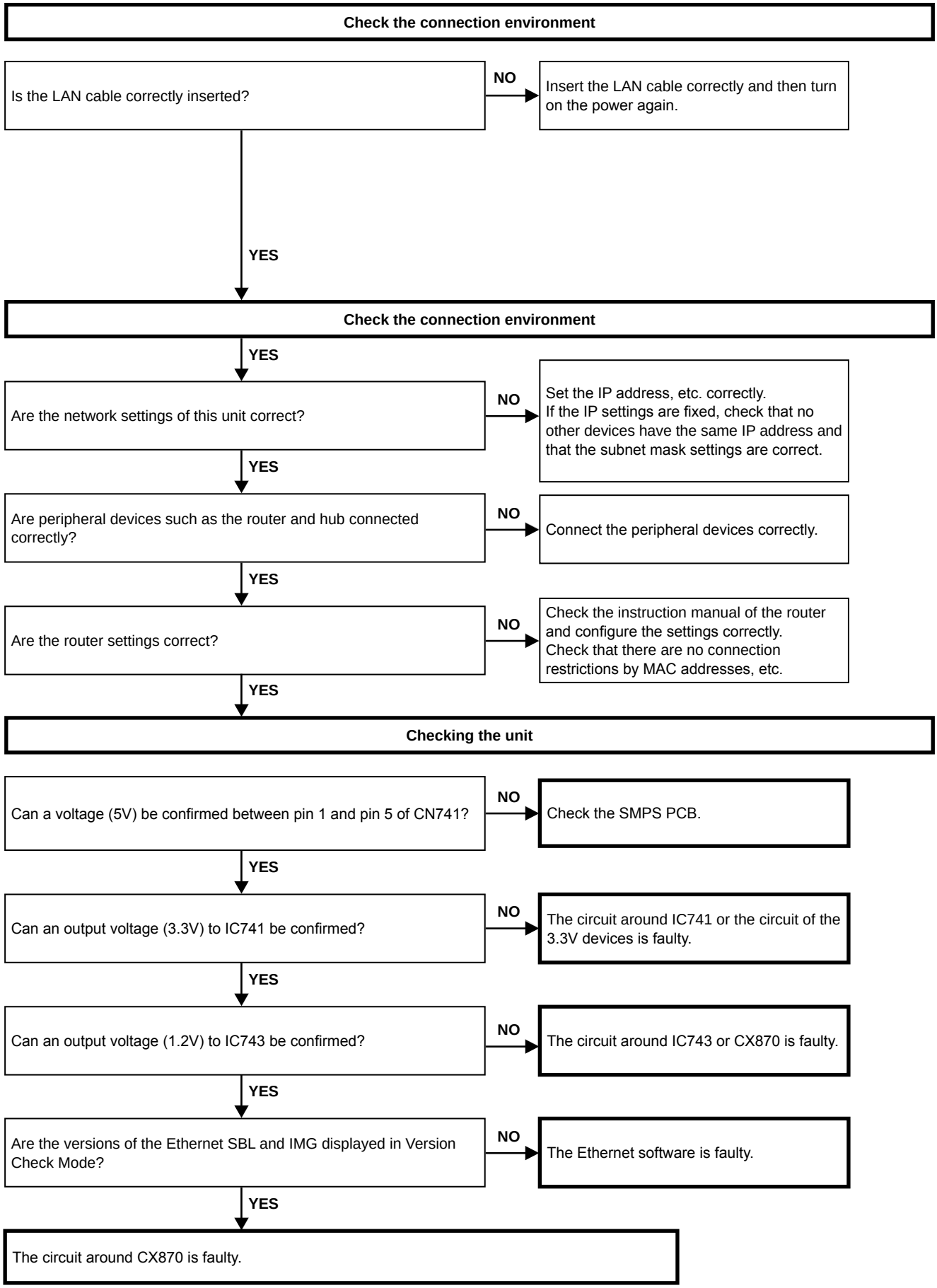


4.3. Analog audio



5. Network/Bluetooth/USB

5.1. Cannot connect to the network



5.2. Cannot connect to the Bluetooth

Can a voltage (5V) be confirmed between pin 1 and pin 4 of CN471 on DIGITAL PCB?
NO → The circuit between the AC inlet and BN601 is faulty. Check the SMPS PCB.
YES

Can a voltage (3.6V) be confirmed to BN921 on Bluetooth PCB?
NO → The circuit between CN741 of the DIGITAL PCB and BN921 of the Bluetooth PCB are faulty of wire or board.
YES

Can a voltage (3.3V) be confirmed to pin 4 of BN921 on Bluetooth PCB?
NO → The circuit around Q7404 or IC741 of the DIGITAL PCB is faulty.
YES

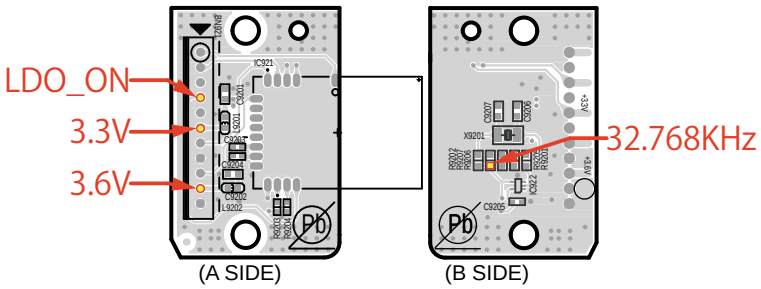
Can a voltage (3.6V) be confirmed to pin 10 of BN921 on Bluetooth PCB?
NO → The circuit around IC912 of the ADAPTER PCB is faulty.
YES

Can a waveform (32.768kHz) be confirmed to pin 4 of IC922 on Bluetooth PCB?
NO → The oscillation circuit including IC922 is faulty.
YES

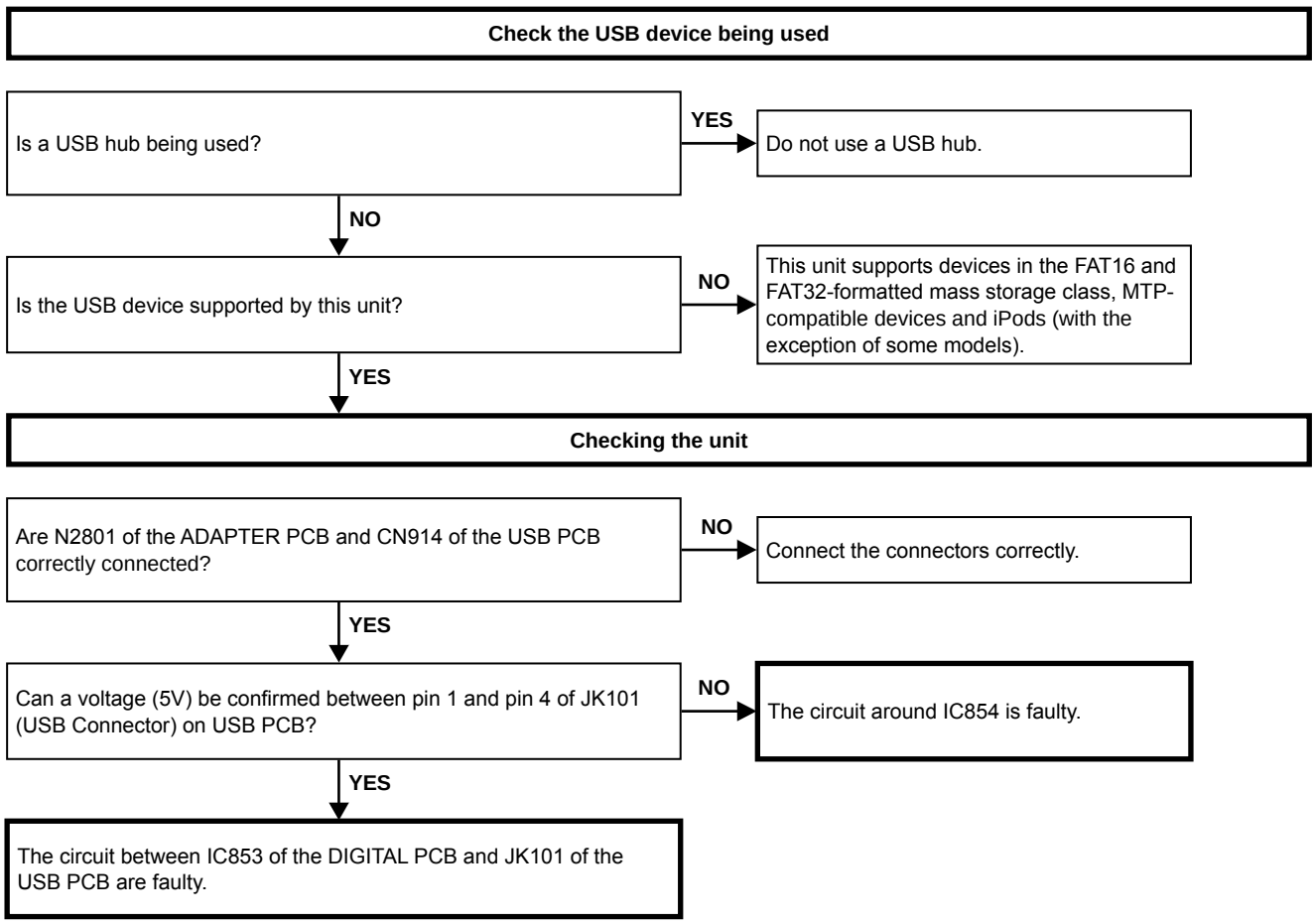
Is 4pin(LDO_ON) of Bluetooth PCB BN921 "Hi"?
NO → The circuit between CX870 and BN921 of the LDO_ON are faulty.
YES

The circuit around Bluetooth Module (iBT-06-02S) or CX870 is faulty.

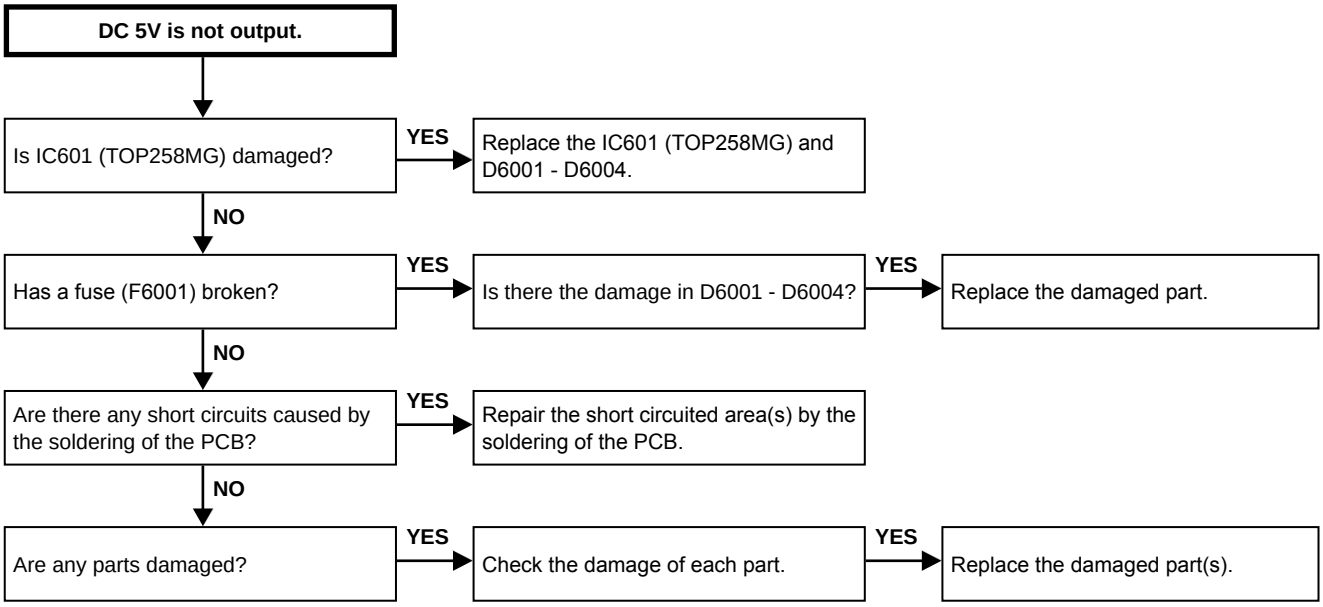
Bluetooth Test Points



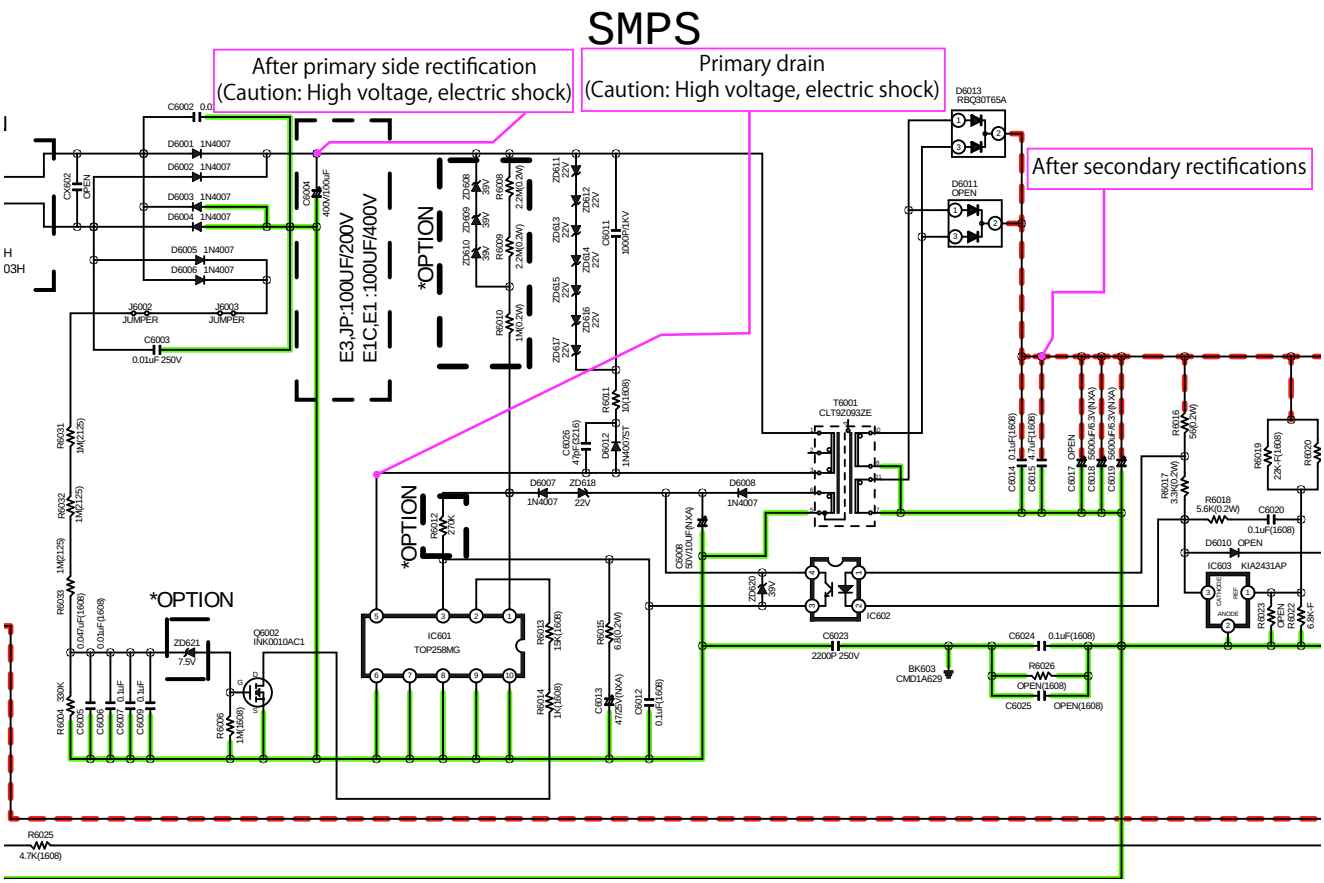
5.3. A connected USB device is not recognized.



6. SMPS


DC 5V is not output.
Is IC601 (TOP258MG) damaged?
YES
Replace the IC601 (TOP258MG) and D6001 - D6004.
NO
Has a fuse (F6001) broken?
YES
Is there the damage in D6001 - D6004?
YES
Replace the damaged part.
NO
Are there any short circuits caused by the soldering of the PCB?
YES
Repair the short circuited area(s) by the soldering of the PCB.
NO
Are any parts damaged?
YES
Check the damage of each part.
YES
Replace the damaged part(s).

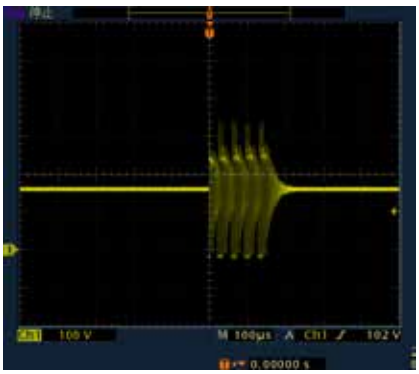
Operation waveform for each part



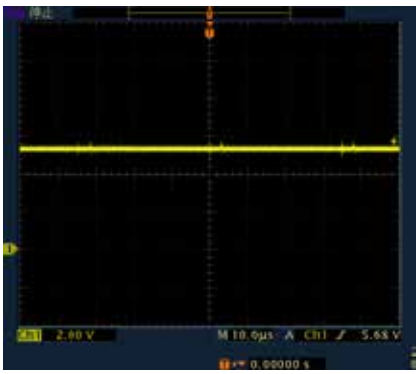
SMPS unit
(Unloaded)

A

B

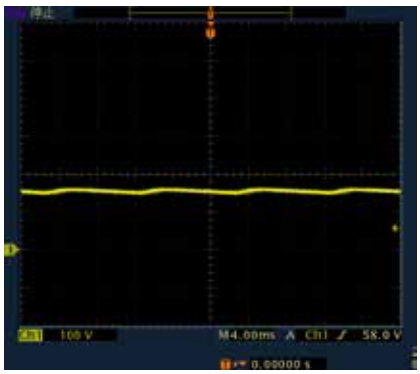


C

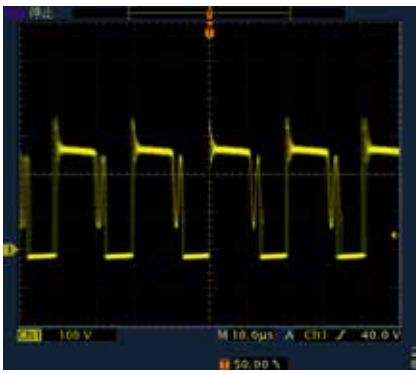


Set

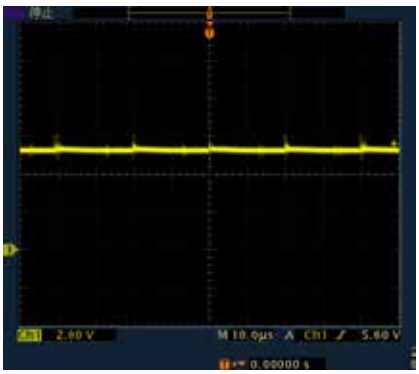
A



B

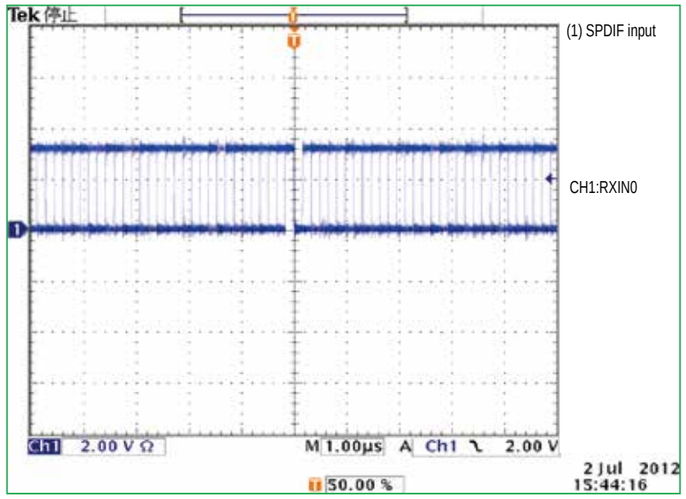


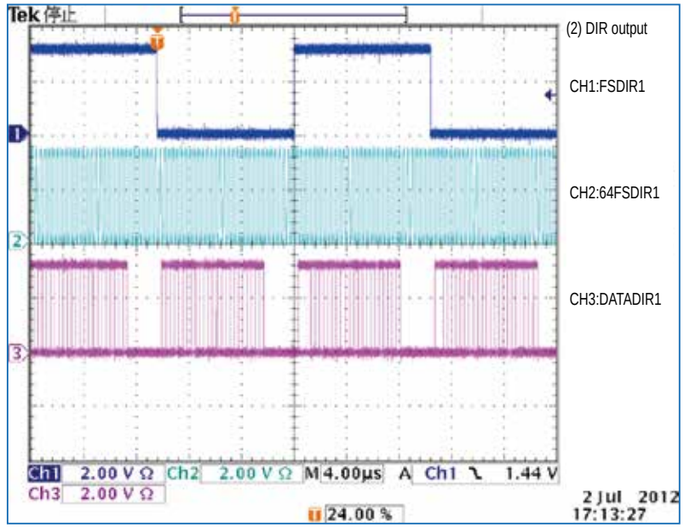
C

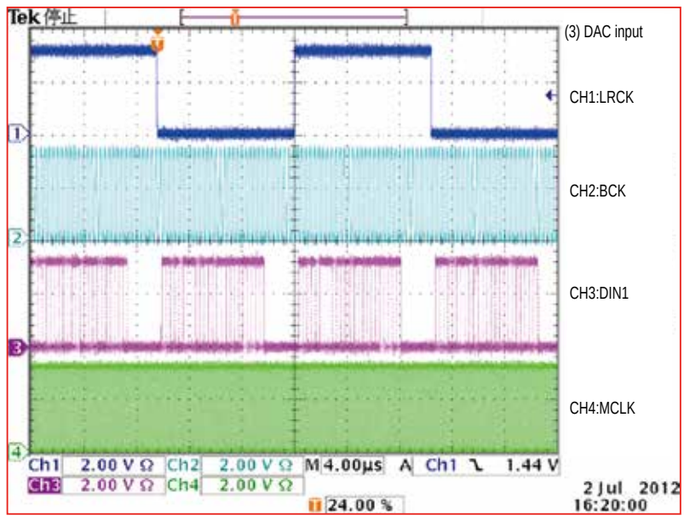


CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

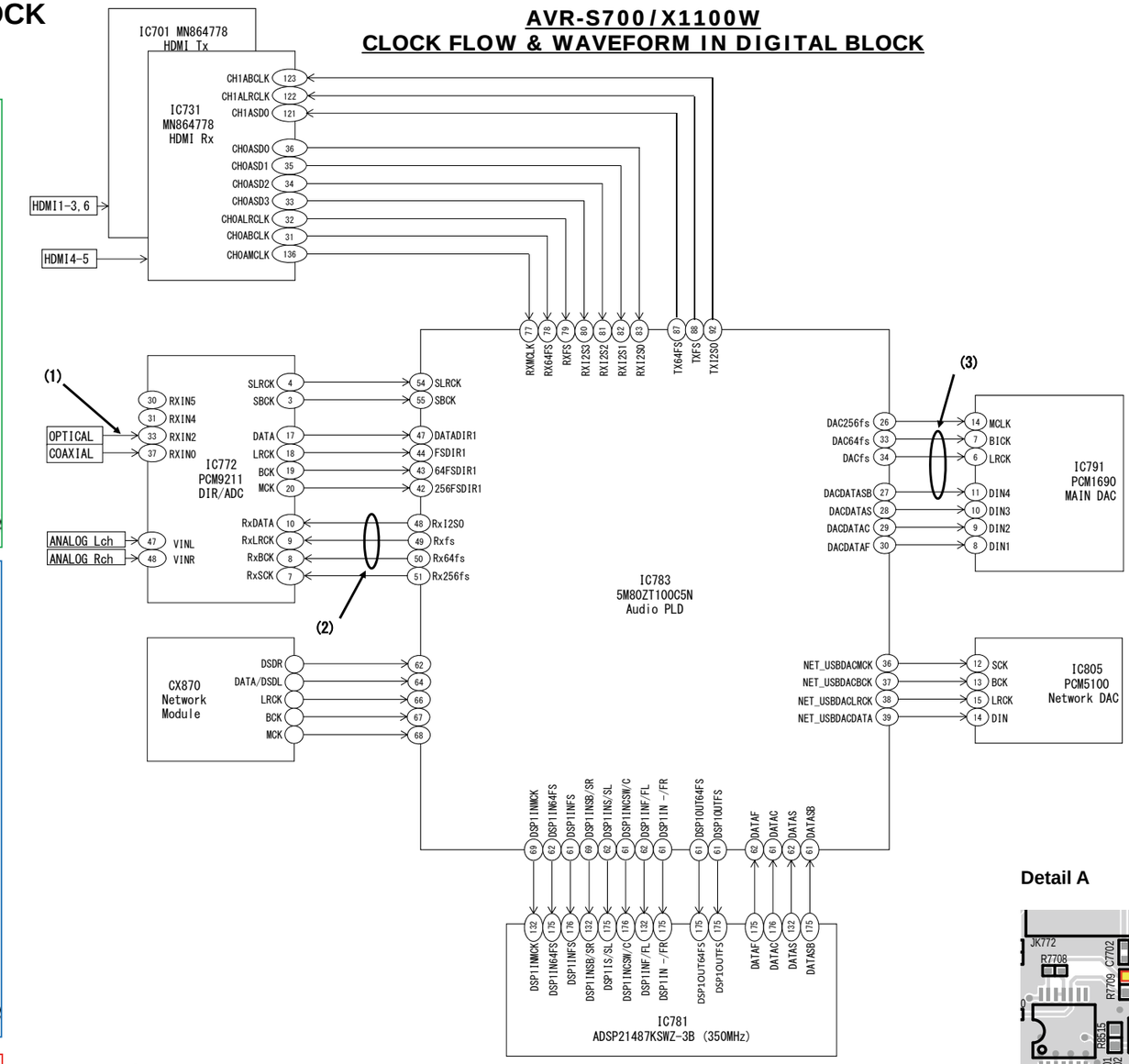
WAVE FORM



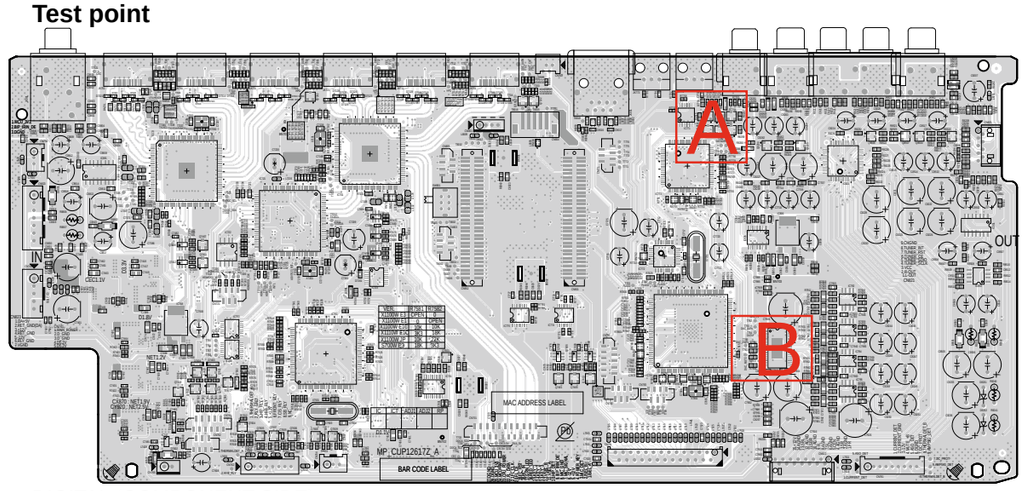




AVR-S700/X1100W
CLOCK FLOW & WAVEFORM IN DIGITAL BLOCK

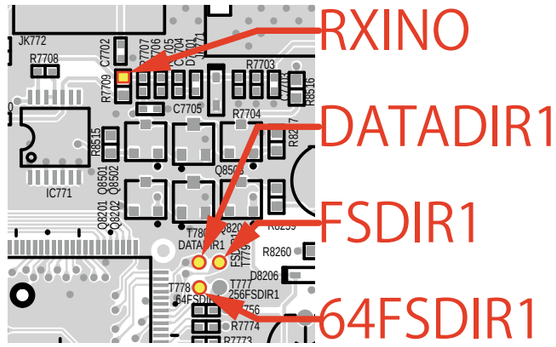


Test point

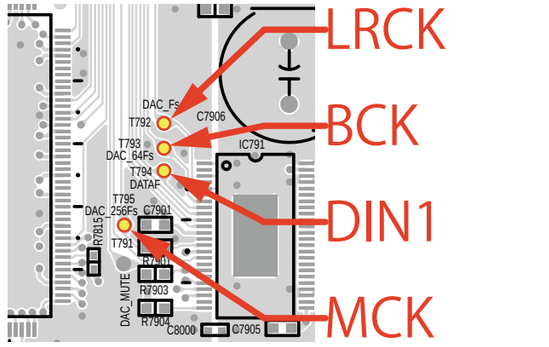


DIGITAL (COMPONENT SIDE)

Detail A

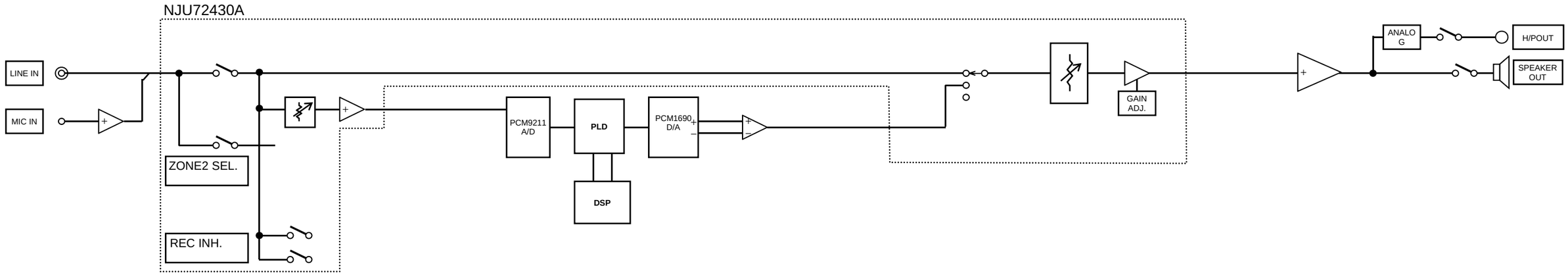


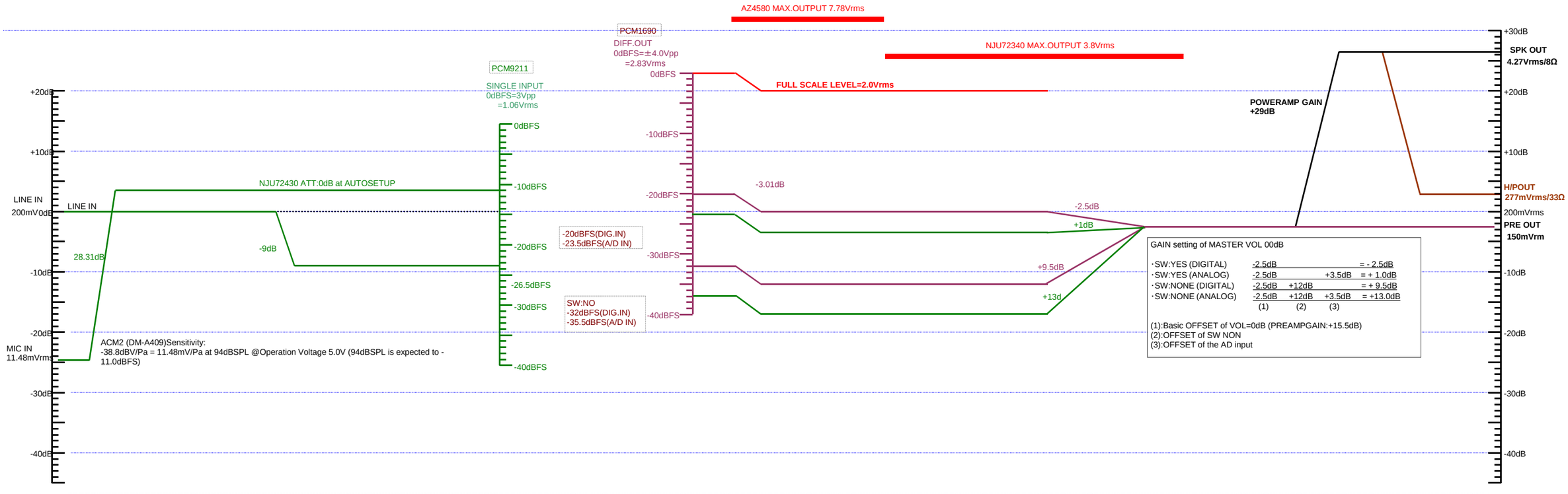
Detail B



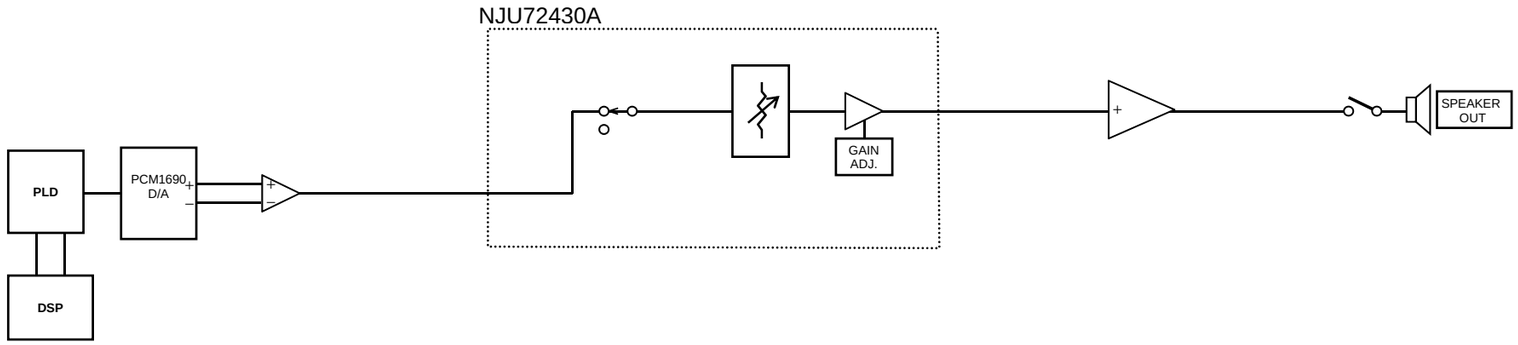
LEVEL DIAGRAM

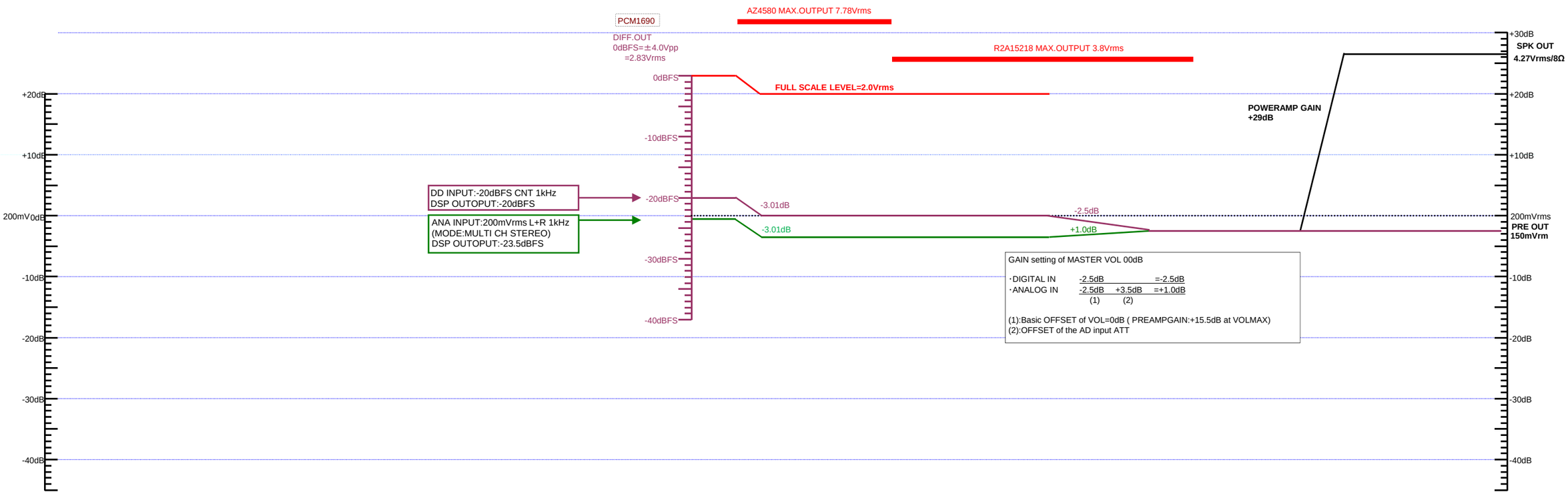
AVR-S700W/X1100W
LEVEL DIAGRAM
FRONT ch



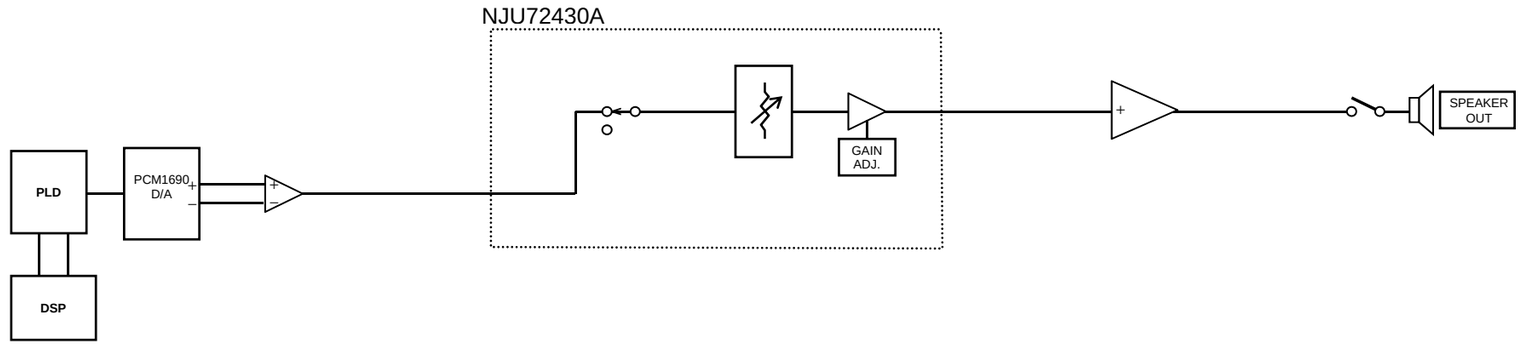


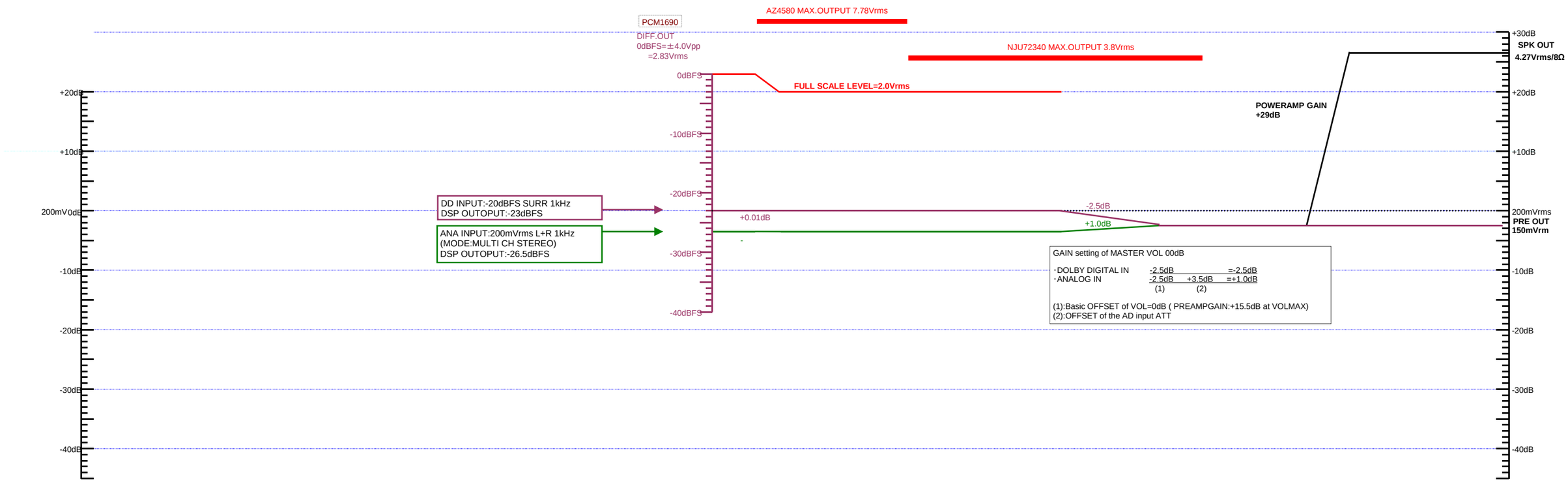
AVR-S700W/X1100Q
LEVEL DIAGRAM
CENTER ch



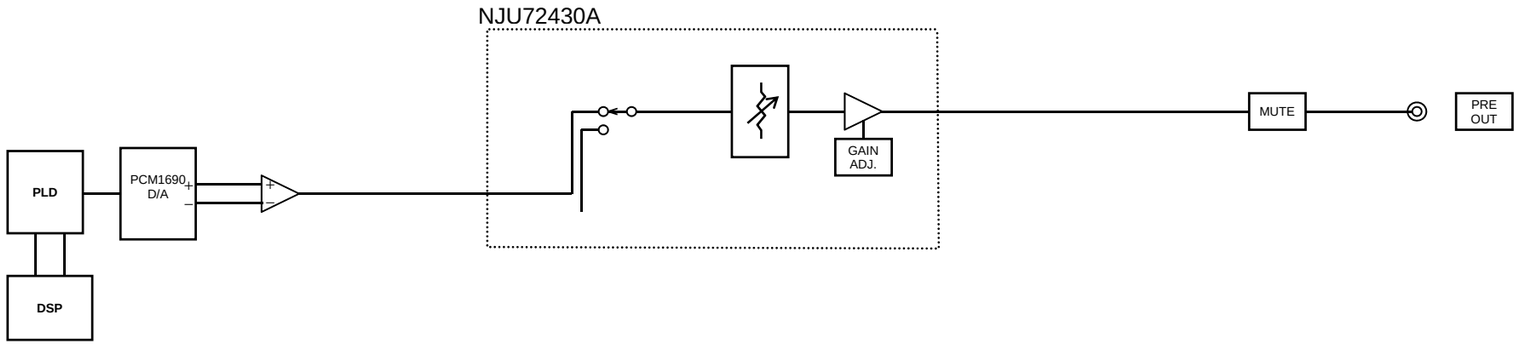


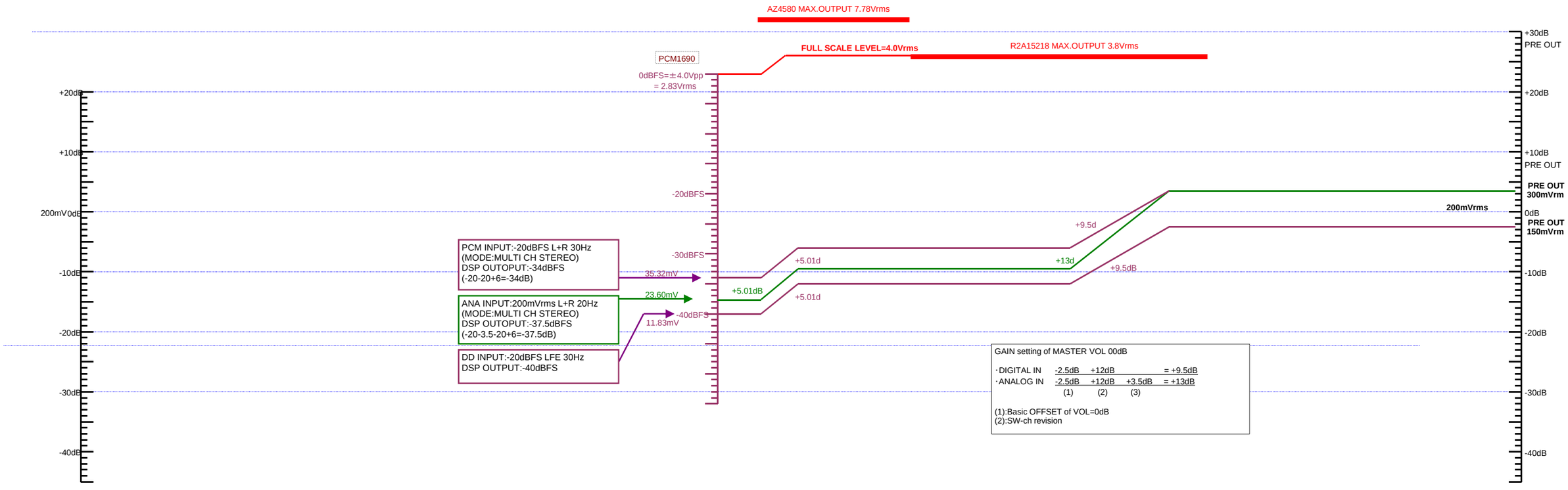
AVRXS700W/X1100W
LEVEL DIAGRAM
SURROUND ch



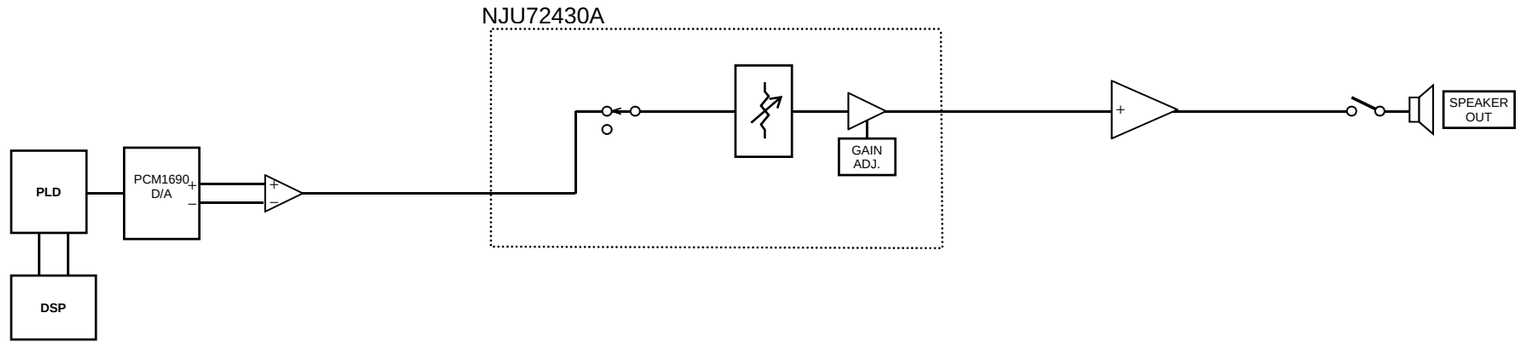


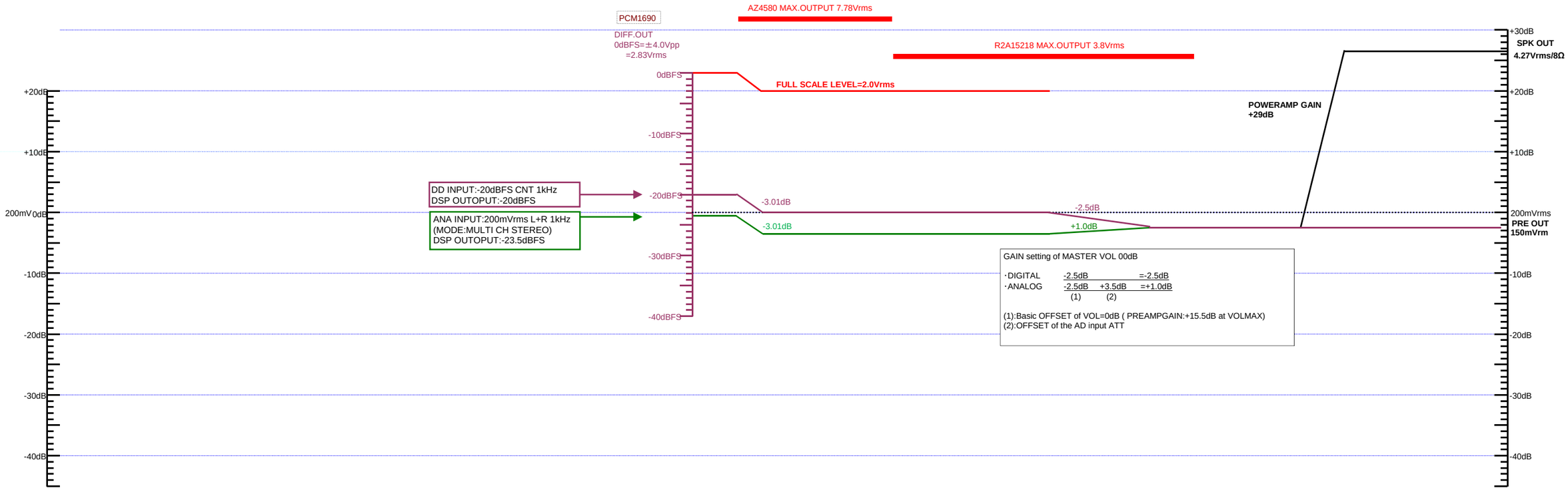
AVR-S700W/X1100W
LEVEL DIAGRAM
SUBWOOFER ch



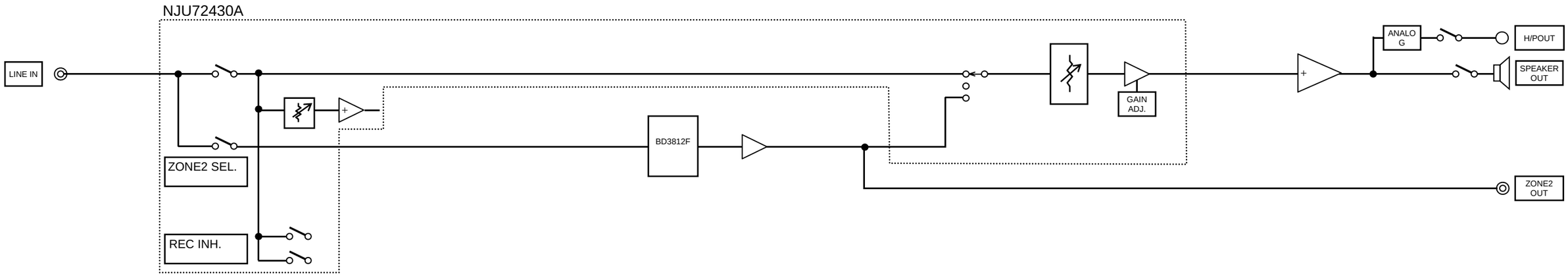


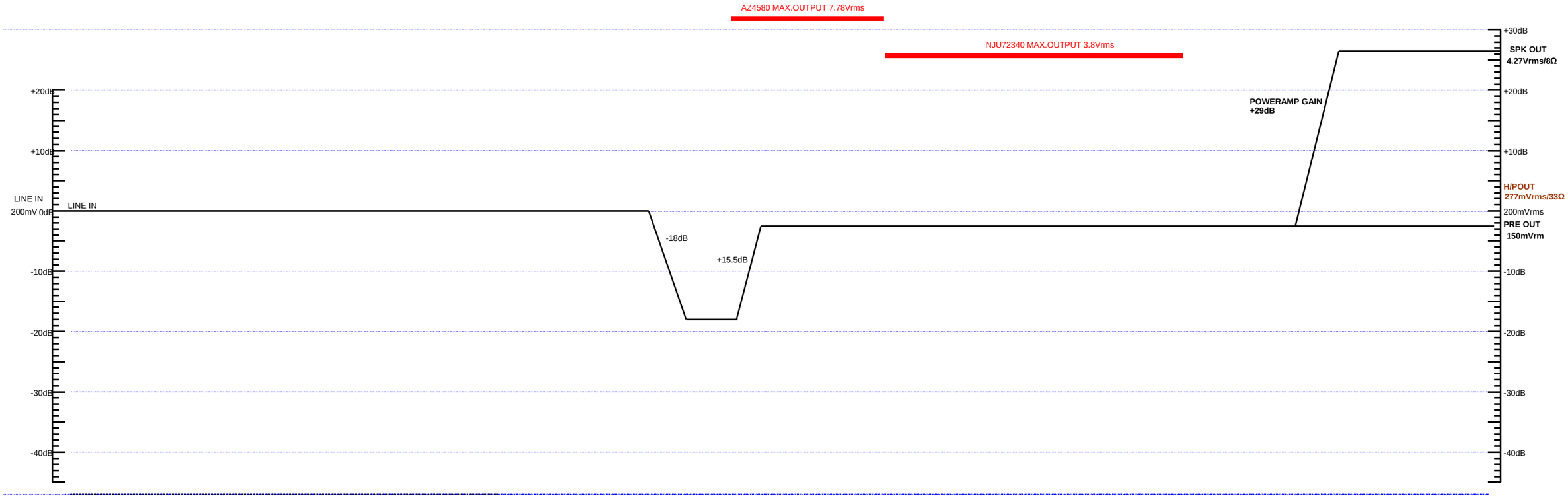
AVR-S700W/X1100W
LEVEL DIAGRAM
SURROUNDBACK ch



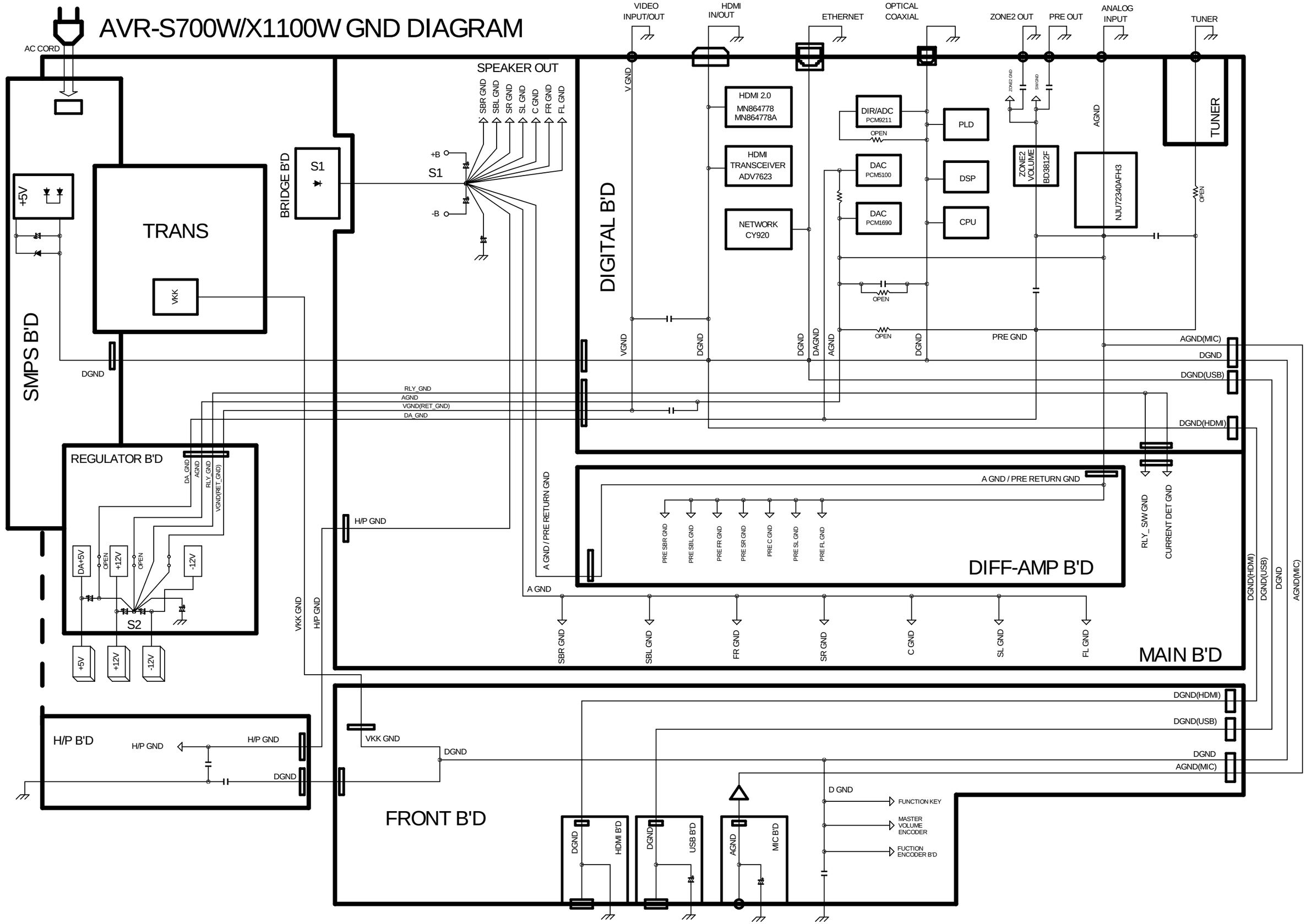


AVR-S700W/X1100W
LEVEL DIAGRAM
ZONE2



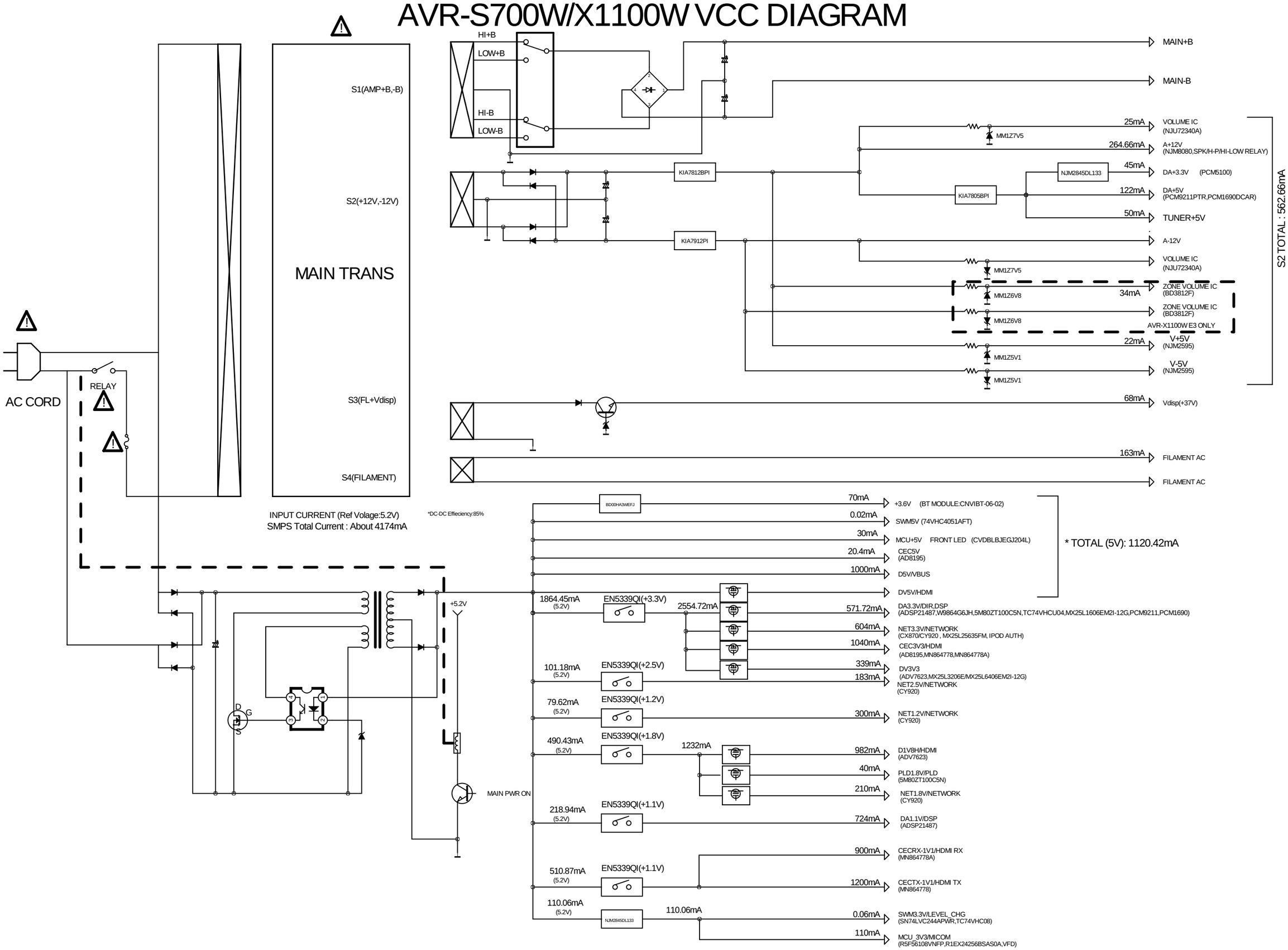


BLOCK DIAGRAM



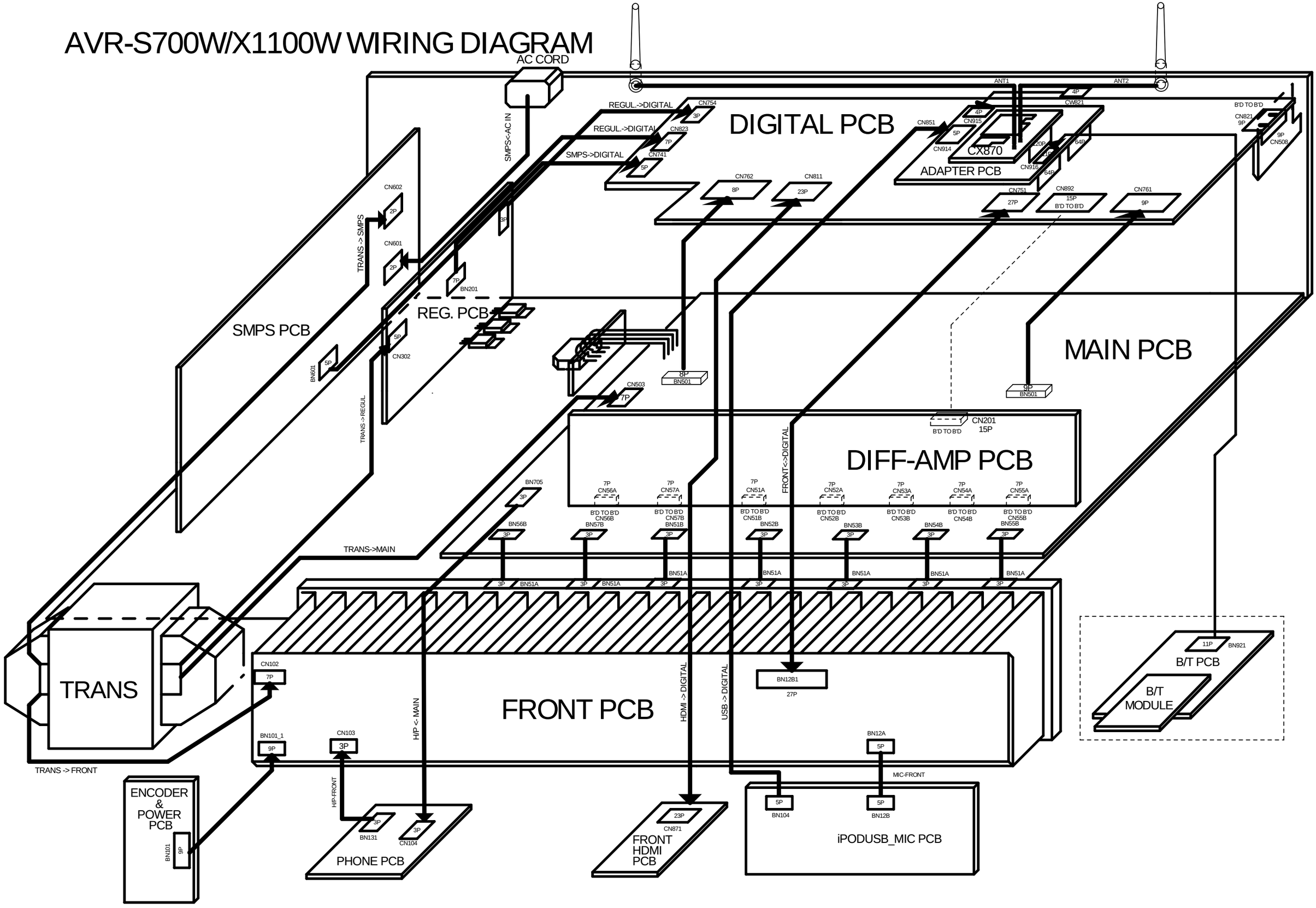
POWER DIAGRAM

AVR-S700W/X1100W VCC DIAGRAM



WIRING DIAGRAM

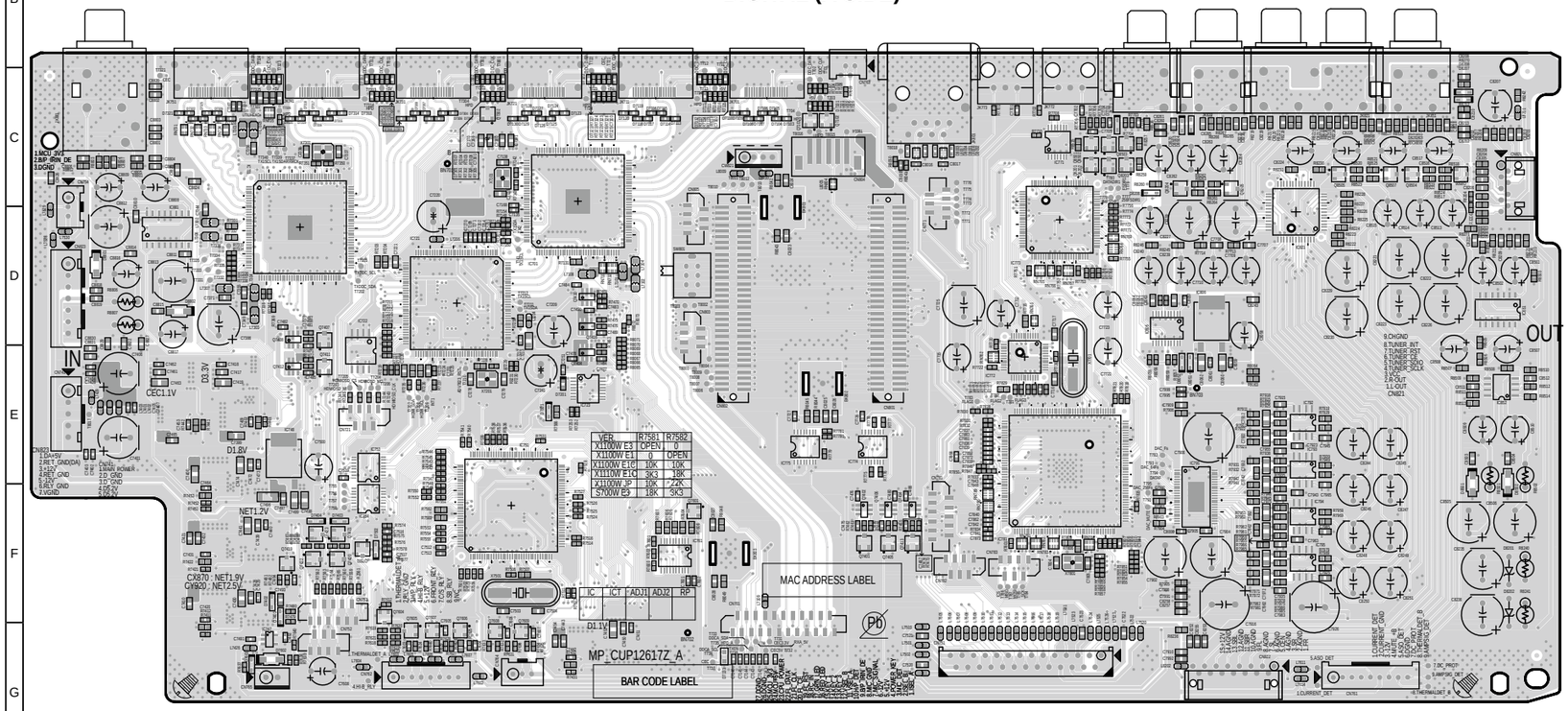
AVR-S700W/X1100W WIRING DIAGRAM



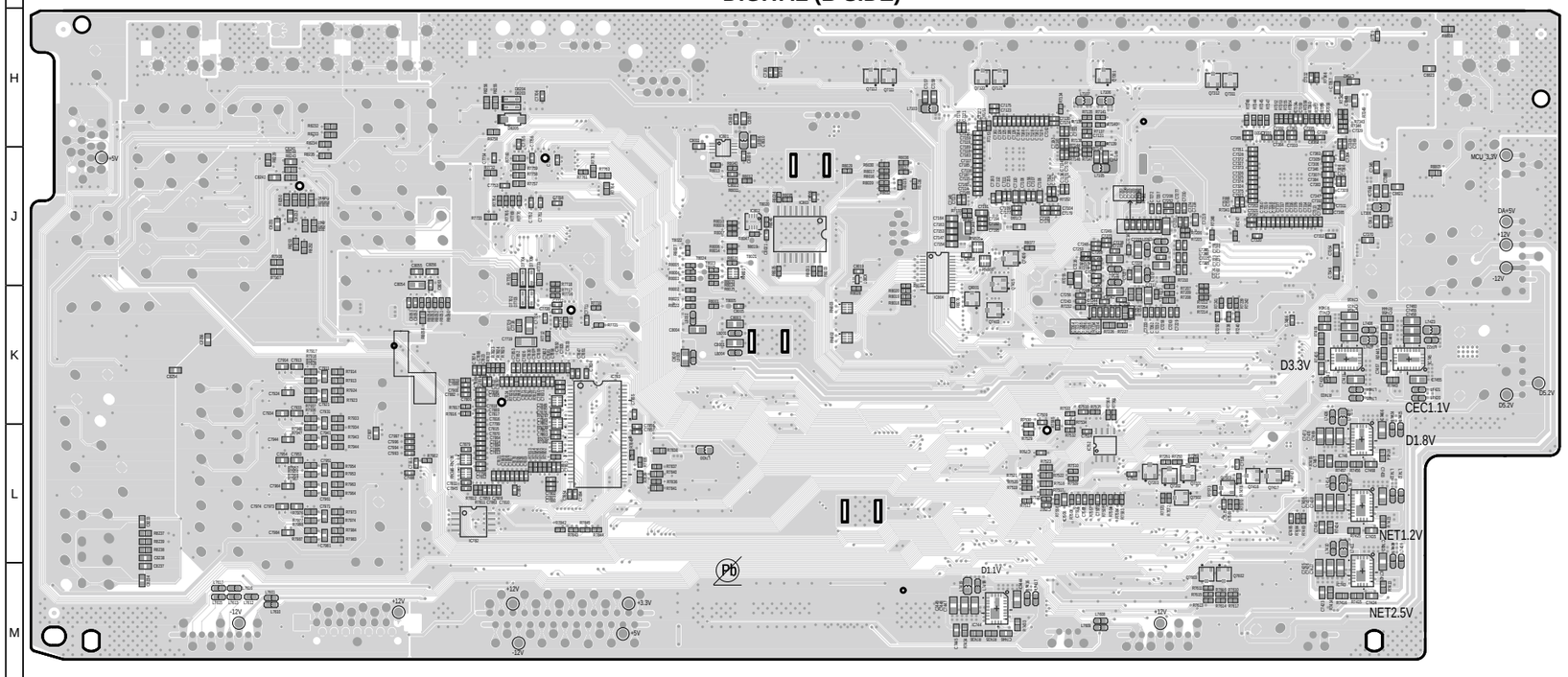
PRINTED WIRING BOARDS

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

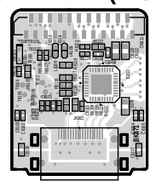
DIGITAL (A SIDE)



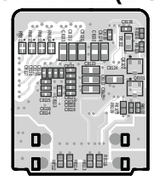
DIGITAL (B SIDE)



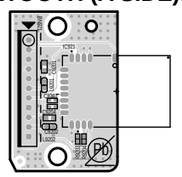
FRONT HDMI (A SIDE)



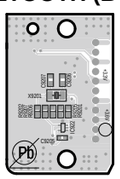
FRONT HDMI (B SIDE)



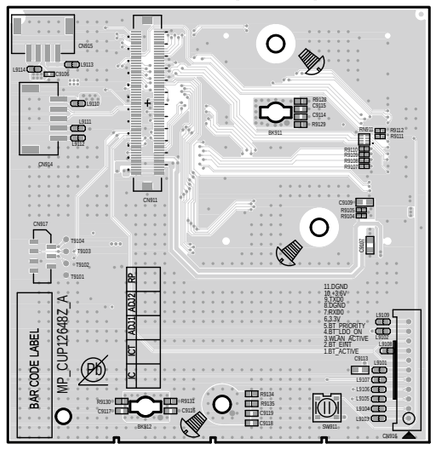
BLUETOOTH (A SIDE)



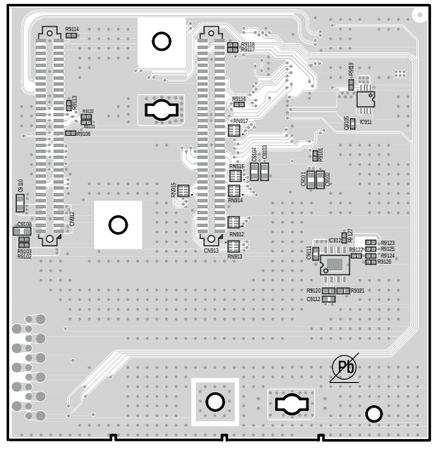
BLUETOOTH (B SIDE)



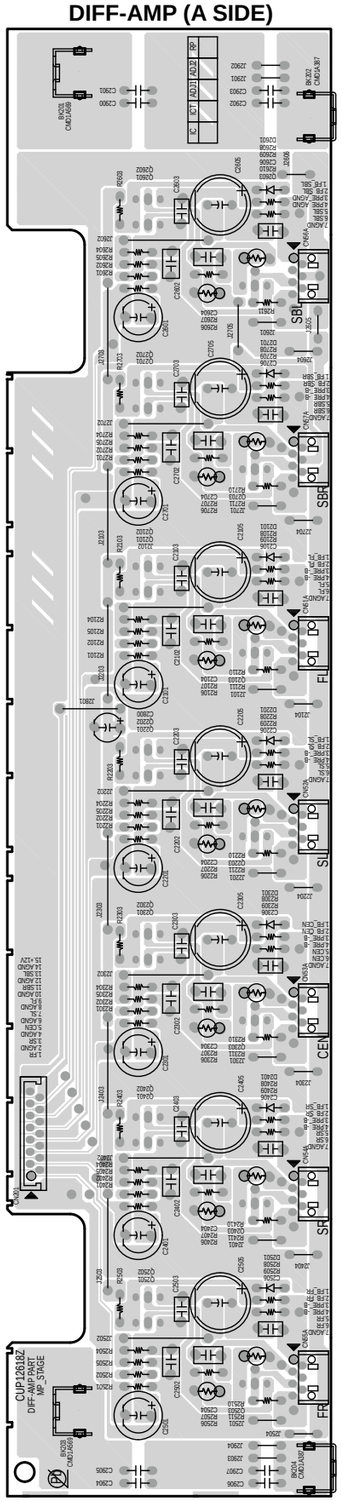
ADAPTER (A SIDE)



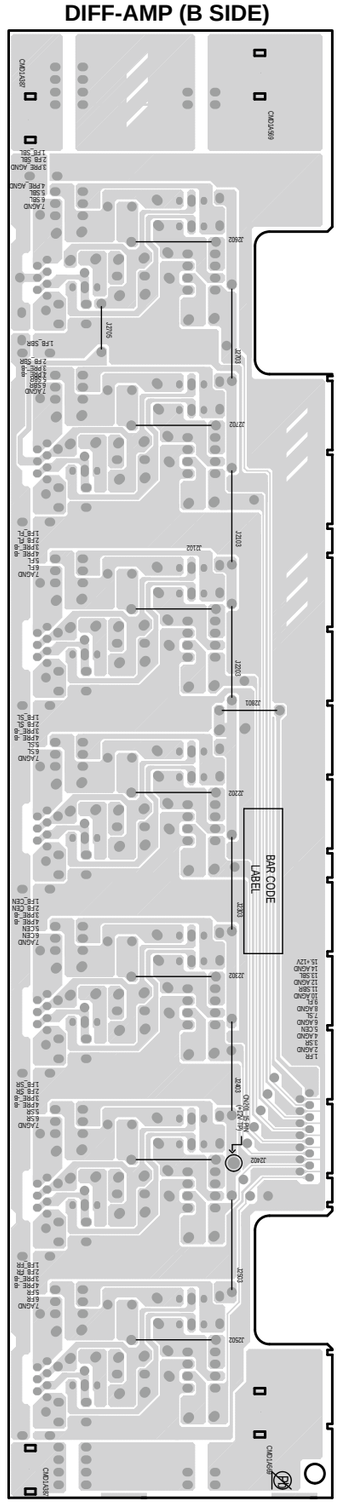
ADAPTER (B SIDE)



DIFF-AMP (A SIDE)



DIFF-AMP (B SIDE)

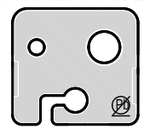


BIAS-TR (A SIDE)

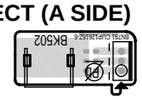
BIAS-TR (B SIDE)

PHONE WIRE GUIDE (A SIDE)

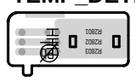
PHONE WIRE GUIDE (B SIDE)



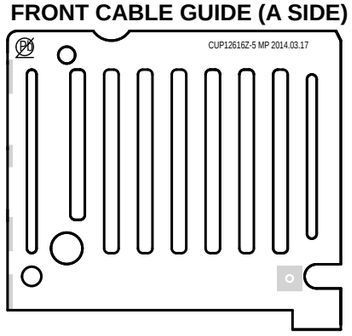
TEMP_DETECT (A SIDE)



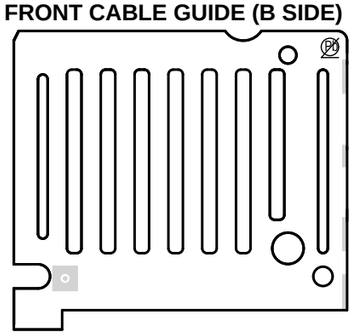
TEMP_DETECT (B SIDE)



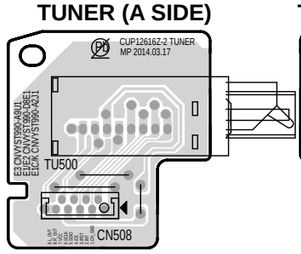
FRONT CABLE GUIDE (A SIDE)



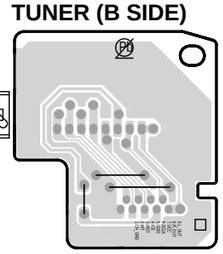
FRONT CABLE GUIDE (B SIDE)



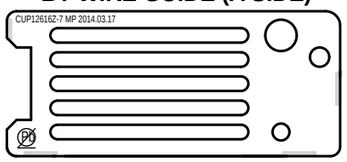
TUNER (A SIDE)



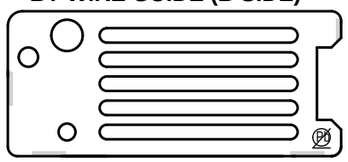
TUNER (B SIDE)



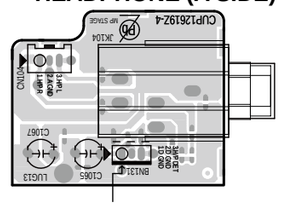
BT WIRE GUIDE (A SIDE)



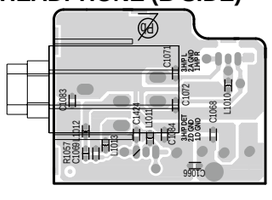
BT WIRE GUIDE (B SIDE)



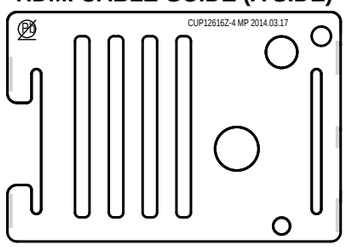
HEADPHONE (A SIDE)



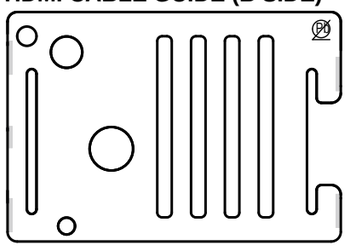
HEADPHONE (B SIDE)



HDMI CABLE GUIDE (A SIDE)

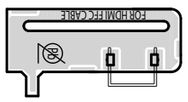


HDMI CABLE GUIDE (B SIDE)

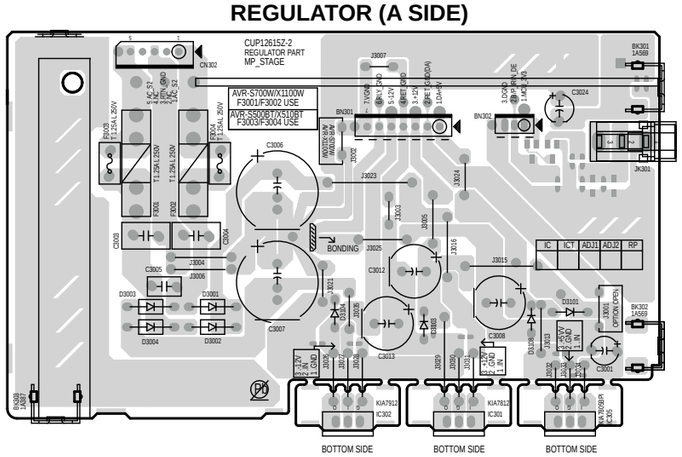


HDMI_FFC_CABLE (A SIDE)

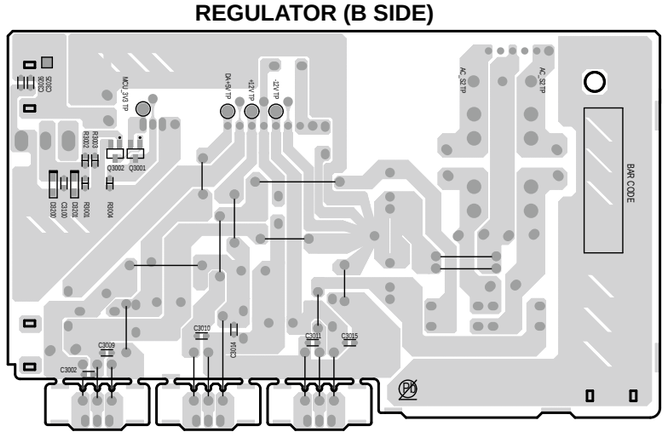
HDMI_FFC_CABLE (B SIDE)



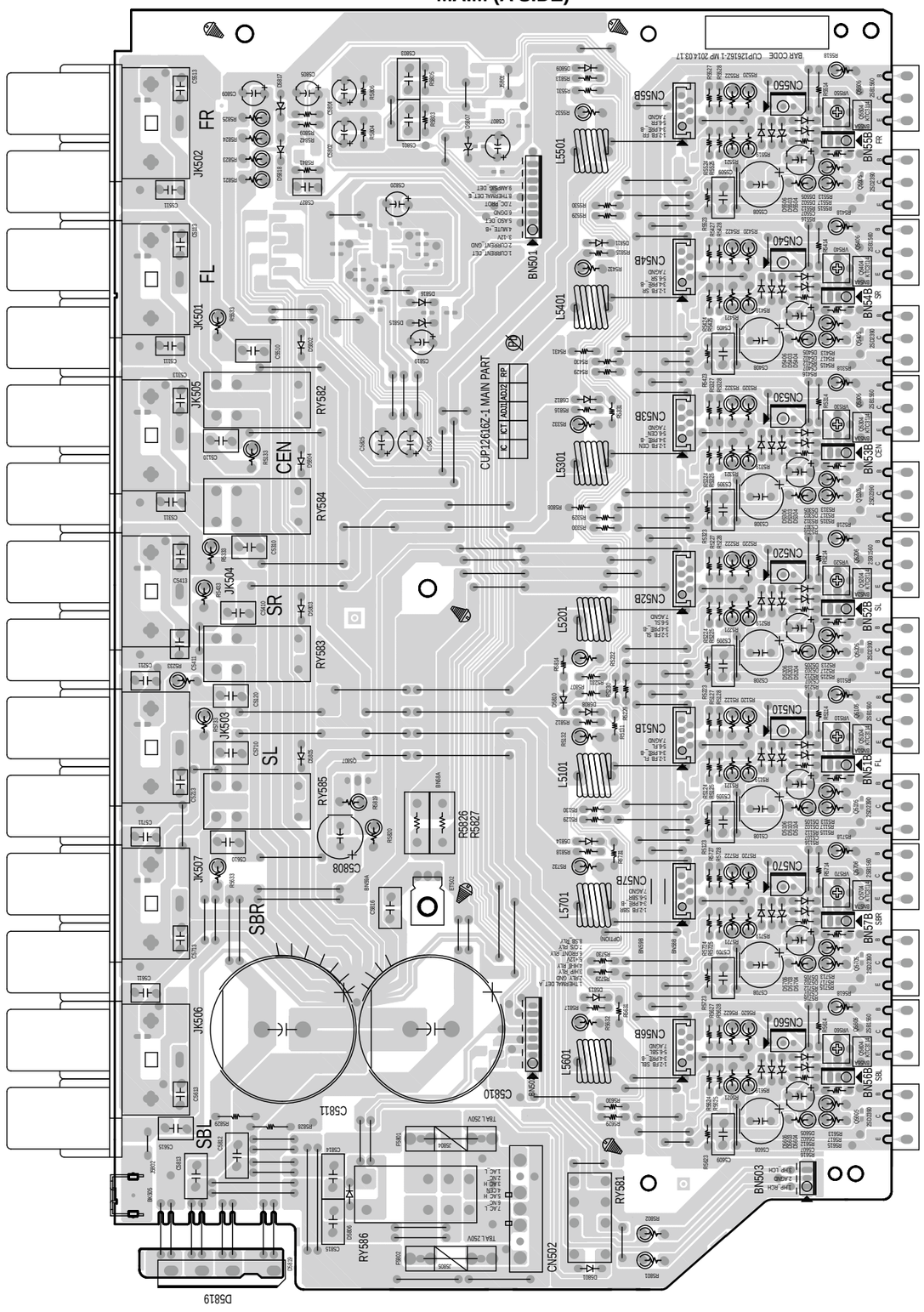
REGULATOR (A SIDE)



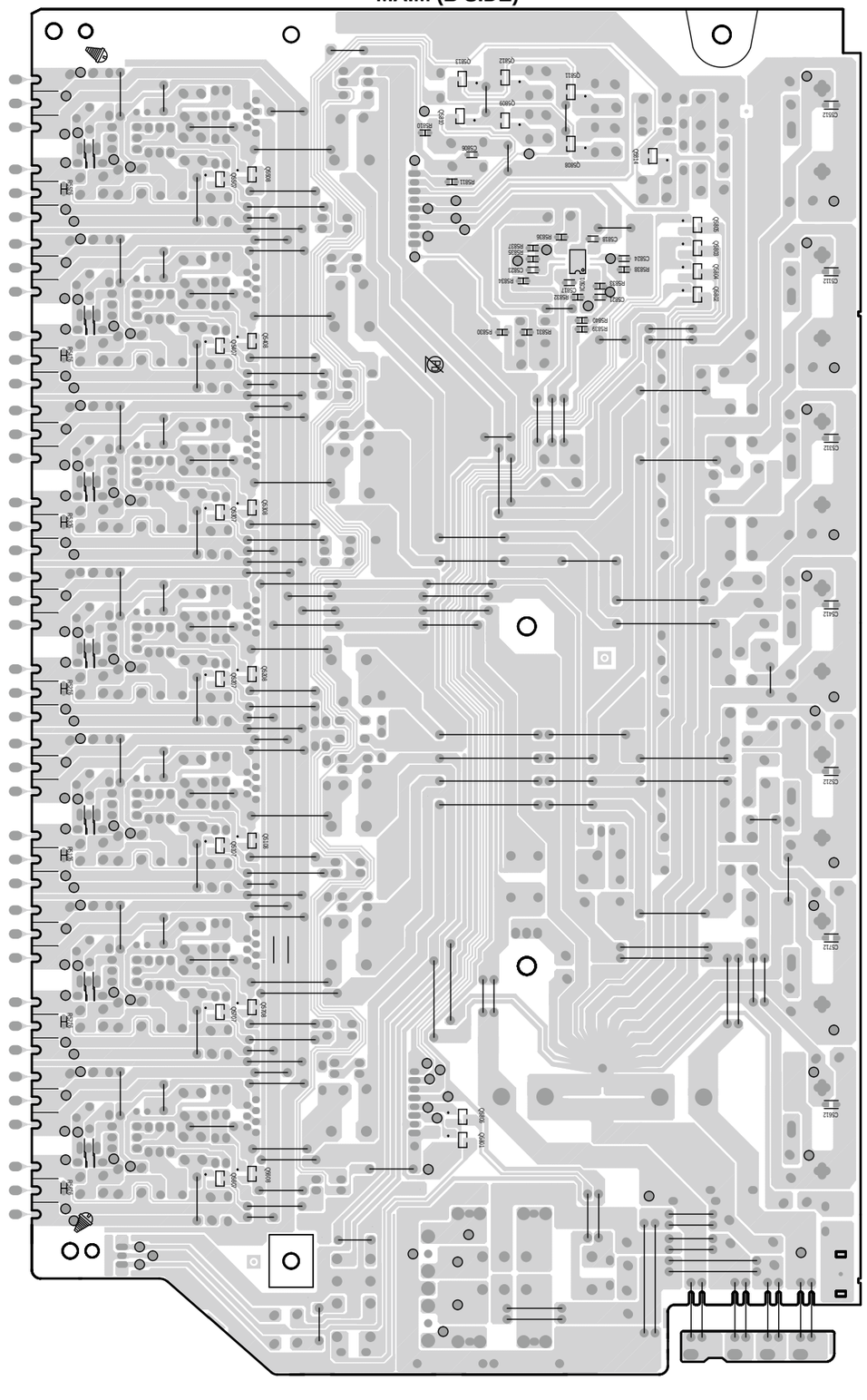
REGULATOR (B SIDE)



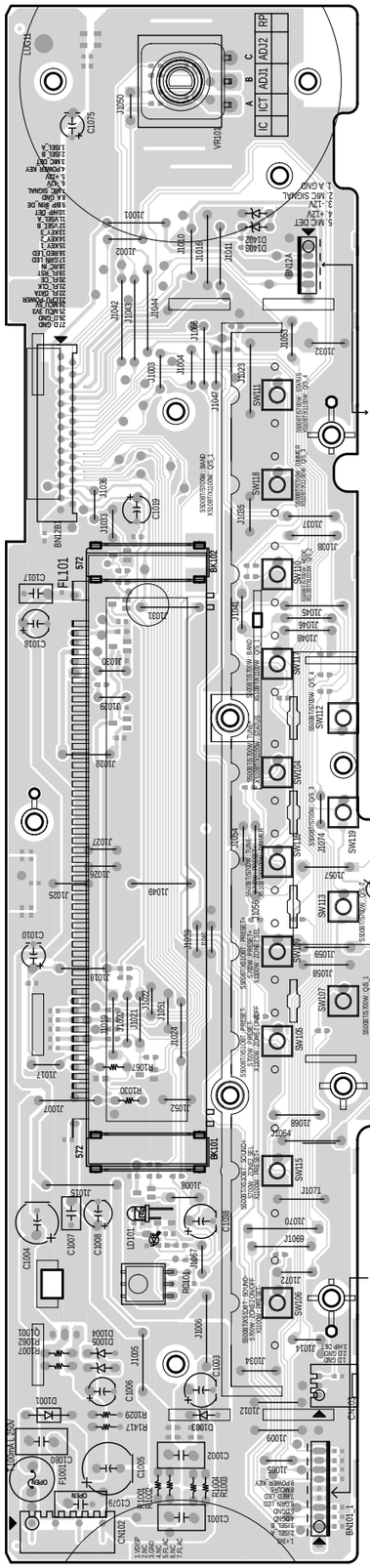
MAIM (A SIDE)



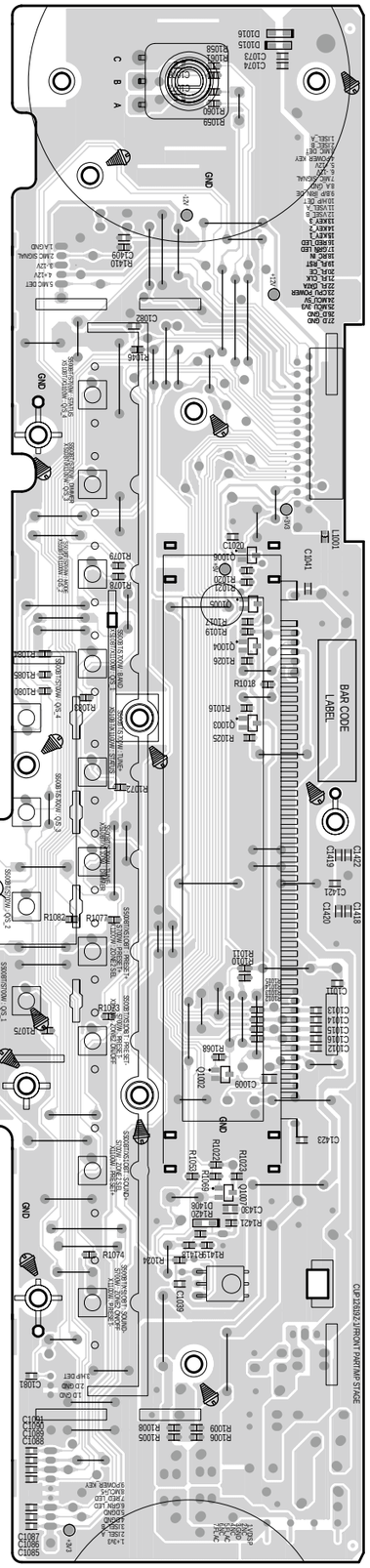
MAIM (B SIDE)



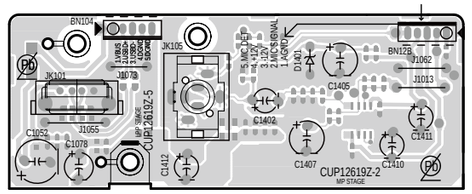
FRONT (A SIDE)



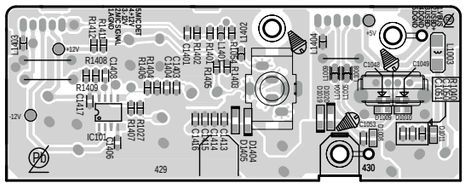
FRONT (B SIDE)



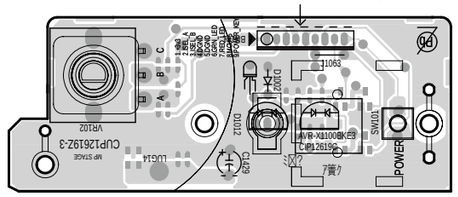
iPODUSB_MIC (A SIDE)



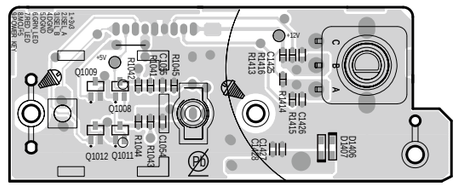
iPODUSB_MIC (B SIDE)



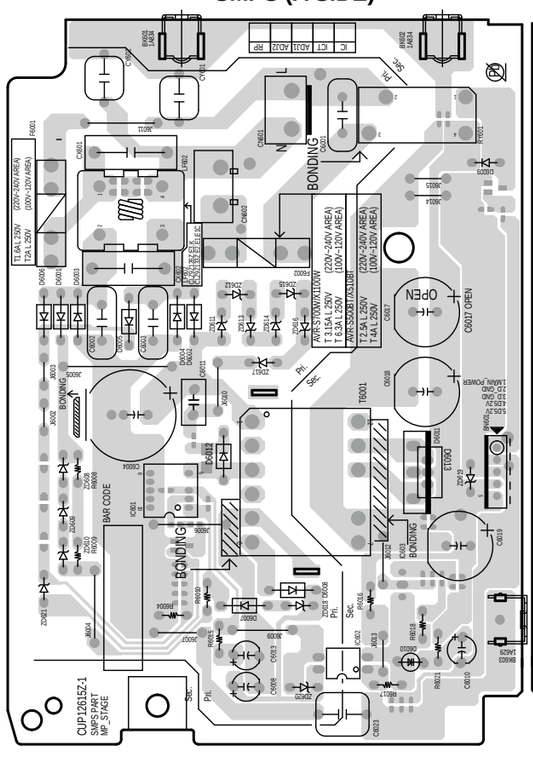
ENCODER&POWER (A SIDE)



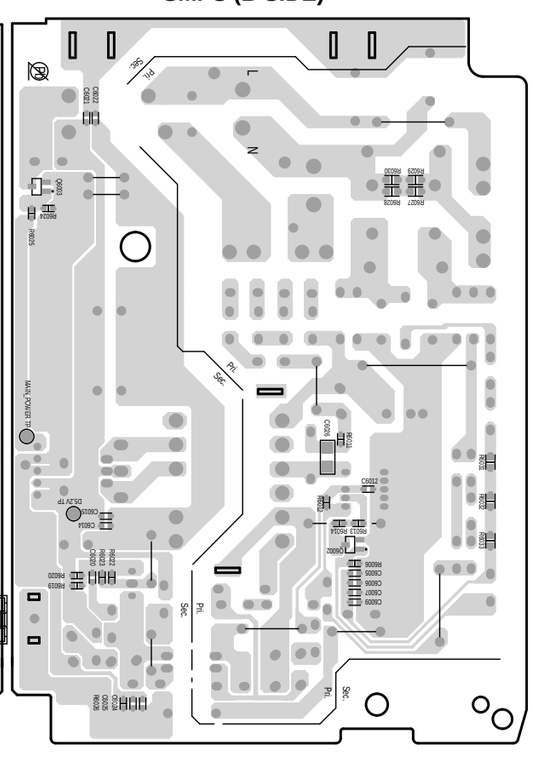
ENCODER&POWER (B SIDE)



SMPS (A SIDE)



SMPS (B SIDE)



HDMI_RX PART

HDMI_INPUT-1 CBL/SAT

JK701 CJJ9H021Z

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

ESD suppressor ASQS12U020R2 OPEN

HDMI_INPUT-2 DVD/Blue-ray

JK711 CJJ9H021Z

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

ESD suppressor ASQS12U020R2 OPEN

HDMI_INPUT-3 MEDIA PLAYER

JK721 CJJ9H021Z

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

ESD suppressor ASQS12U020R2 OPEN

CN701 CJP23GA193ZY 10023H-23C

CN701
TO CN811

DGND, RXA_2+, RXA_2-, DGND, RXA_1+, RXA_1-, DGND, RXA_0+, RXA_0-, DGND, RXA_C+, RXA_C-, DGND, DGND, CEC3.3V, CEC3.3V, RXA_5V, DDCA_SCL, DDCA_SDA, TXEN, HPD_A, CEC

IC701
CVIMN8647781A

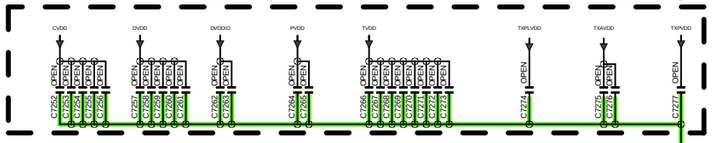
A0 TO 0A
A1 TO 1A
A2 TO 2A
A3 TO 3A
A4 TO 4A

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

SCHEMATIC DIAGRAMS (1/19)
SCH01_HDMI_RX

HDMI ADV7623 PART

0.01uF OPEN(ADI RECOMMENDATION)



IC721
ADV7623

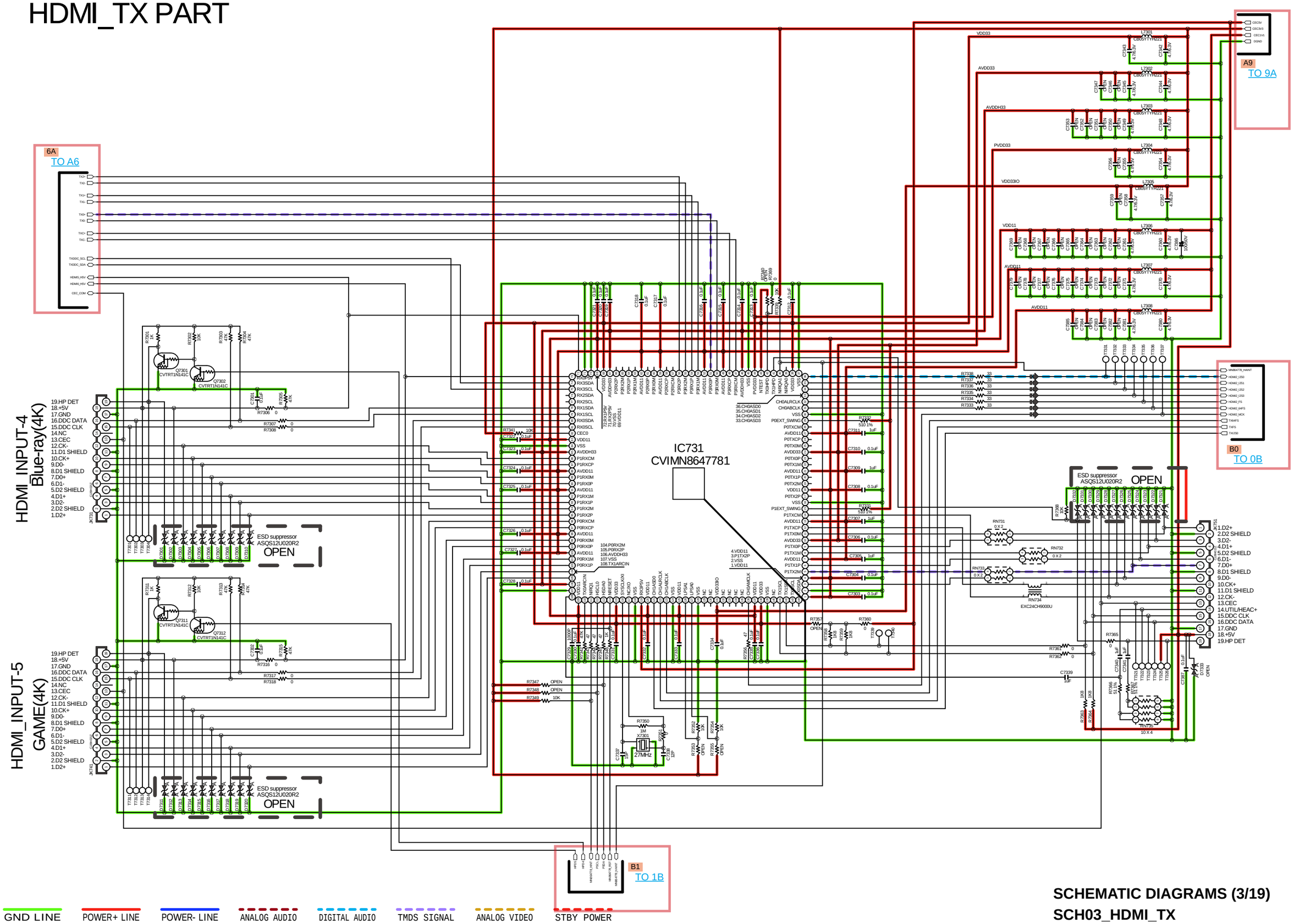
IC723
CVISN74CBT3251PWR

OSD FLASH PART
E3/E1C/K : MX25L3206EM2I-12G
E1 : MX25L6406EM2I-12G

SCHEMATIC DIAGRAMS (2/19)
SCH02_HDMI ADV7623

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

HDMI_TX PART

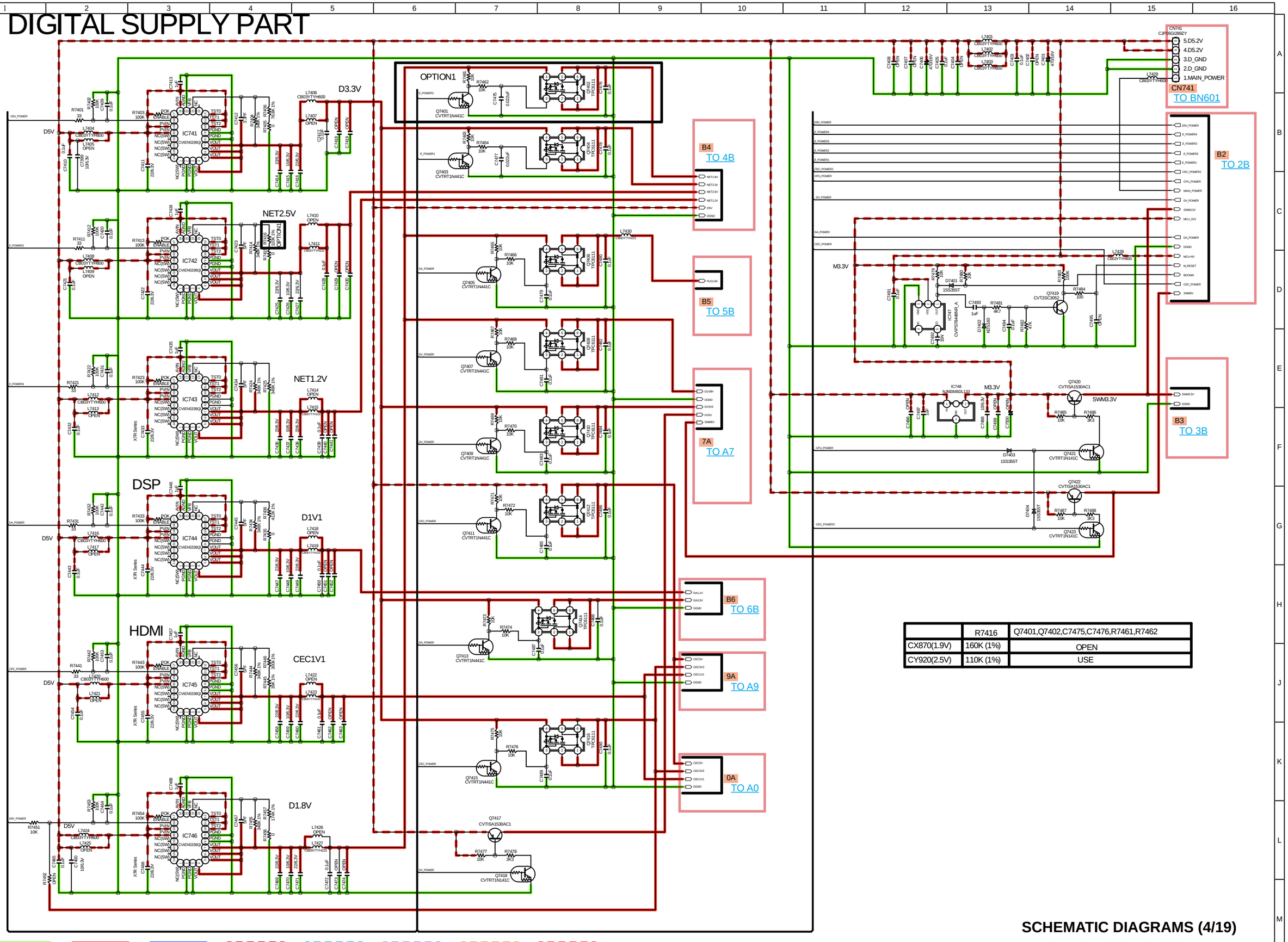


GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (3/19)

SCH03_HDMI_TX

DIGITAL SUPPLY PART



	R7416	Q7401,Q7402,C7475,C7476,R7461,R7462
CX870(1.9V)	160K (1%)	OPEN
CY920(2.5V)	110K (1%)	USE

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

SCHEMATIC DIAGRAMS (4/19)

SCH04_DIGITAL SUPPLY

MCU PART

3A TO A3

1B TO B1

C2 TO 2C

CN751 TO BN12B1

C1 TO 1C

2B TO B2

5A TO A5

B7 TO 7B

B8 TO 8B

8A TO A8

C0 TO 0C

B9 TO 9B

CN754 TO BN302

IC751
CVIR5F56108VNFP

HDMI CEC_PART

EEPROM PART

AVR-X1100W E3 ONLY USE
OTHER OPEN

CN752 CJP07GA193ZY
1.RESET
2.VCC
3.TXD
4.RXD
5.DGND
6.CNVSS
7.DSP BOOT
RS232C Update
1.00mm FFC

CN753 10022H-11C
CJP11GA193ZY
1.RESET
2.MCU_3V3
3.TDI
4.TCK
5.DGND
6.MD0
7.MD1
8.EMLE
9.TRST#
10.TDO
11.TMS
MP : OPEN
E20/EMULATOR
1.00mm FFC

REMOTE IN
2.0mm 3PIN WIRE
1.MCU_3V3
2.B/P_IRIN_DE
3.DGND
AVR-X1100W E3 ONLY

* AVR-S700W/X1100W VERSION OPTION

VER.	R7581(PU)	R7582(PD)
X1100 E3	OPEN	0
X1100 E1	0	OPEN
X1100 E1C	10K	10K
~~X1010 E1C~~	~~3K3~~	~~18K~~
X1010 JP	10K	22K
S700W E3	18K	3K3

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

SCHEMATIC DIAGRAMS (5/19)
SCH05_MCU

MCU_LEVEL_CHG PART

TEMP DETECT & POSISTOR NOT USE : OPTION1,OPTION2,OPTION3 NOT USE & MCU 62PIN,65PIN SET OUTPUT PORT
TEMP DETECT USE : OPTION1,OPTION3
POSISTOR USE : OPTION2,OPTION3 (BUT R7633 NOT USE)

CN762 TO BN502 — CJP08GI2882Y — 1.THERMALDET_A, 2.RLY_GND, 3.HP_RLY, 4.H/B_RLY, 5.+12V, 6.FRONT_RLY, 7.CS_RLY, 8.SB_RLY

CN761 TO BN501 — 1.CURRENT_DET, 2.CURRENT_GND, 3.-12V, 4.MUTE_+B, 5.ASO_DET, 6.DGND, 7.DC_PROT, 8.THERMALDET_B, 9.AMPSIG_DET

OPTION1
TO H/S TEMP DETECT PART
2.0mm 3PIN WAFER
CN764 TO BN791 — 1.DGND, 2.THERMALDET_E, 3.THERMALDET_F

OPTION2
TO H/S POSISTOR ASS'Y
CN765

C4 TO 4C — AP_CK, AP_DX, AP_CS, JTAG_TDOO, JTAG_TCK, JTAG_TDI, JTAG_TMS — R7601 33, R7602 33, R7603 33

C3 TO 3C — RLY_GND, MUTE_+B

3B TO B3 — 3VMS.3V, DGND

CN763 CJP04GB113ZY — 1.3.3V, 2.TX, 3.RX, 4.DGND — UPDATE 1.00mm 4PIN FFC

DETECT PARTS MIC/ HP — DC_DET/ASO — PROTECT PARTS

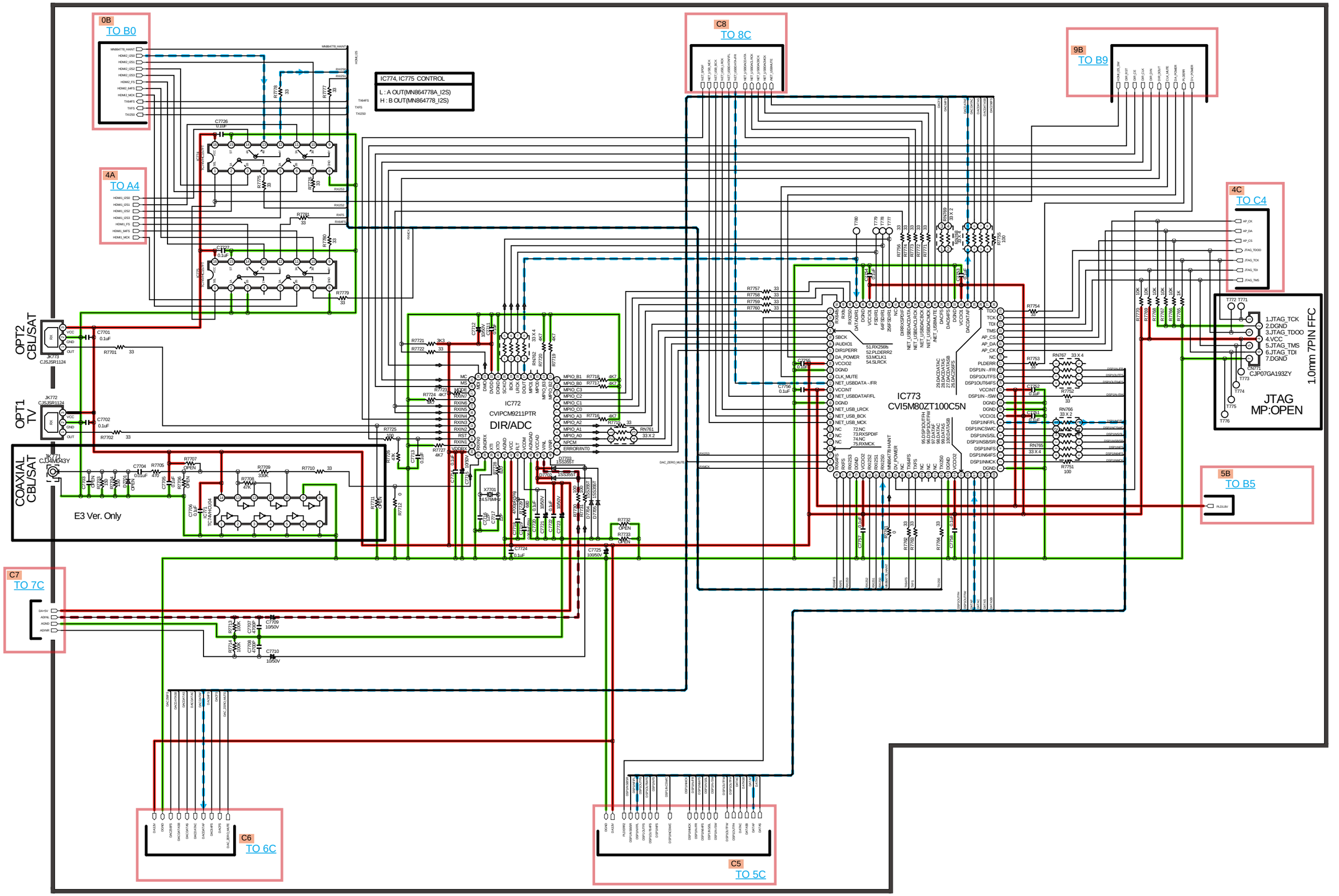
OPTION3 / OPTION1

2C TO C2 — FRONT_RLY, CS_RLY, HP_RLY, SB_RLY, H/B_RLY, PLD_WRITE, JTAG_TDO, JTAG_TDI/AVLD_CS, JTAG_TCK/AVLD_DATA, JTAG_TMS/AVLD_CLK, TXD, RXD, CURRENT_DET, AMPSIG_DET, -12V, +12V, MIC_DET, H/P_DET, DGND, H/P_DET/MIC_DET, DC_DET/ASO, THERMAL_A, THERMAL_B, THERMAL_E, THERMAL_F

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

SCHEMATIC DIAGRAMS (6/19)
SCH06_MCU_LEVEL_CHG

DIR/PLD PART



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

SCHEMATIC DIAGRAMS (7/19)

SCH07_DIR_PLD

DSP PART

6B TO B6

5C TO C5

IC781
ADSP21487KSWZ-3B

IC783
A3V64S40GTP-60
64M BIT SDRAM

	R7829	R7831
AVR-X1100W	OPEN	4K7
AVR-S700W	4K7	OPEN

7B TO B7

CN781
CJP11GA193ZY
10022H-11C
MP : OPEN
1.00mm FFC
EMULATOR

CN782
CJP07GA193ZY
10022H-07C
MP : OPEN
1.00mm FFC
1.VCC(3V3)
2.GND
3.CLK
4.MOSI
5.MISO
6.CS1
7.CS2

CN783
CJP07GA193ZY
10022H-07C
MP : OPEN
1.00mm FFC
SCK
GND
MOSI
VCC
CS
MISO
GND

IC782
MX25L1606EM2I-12G

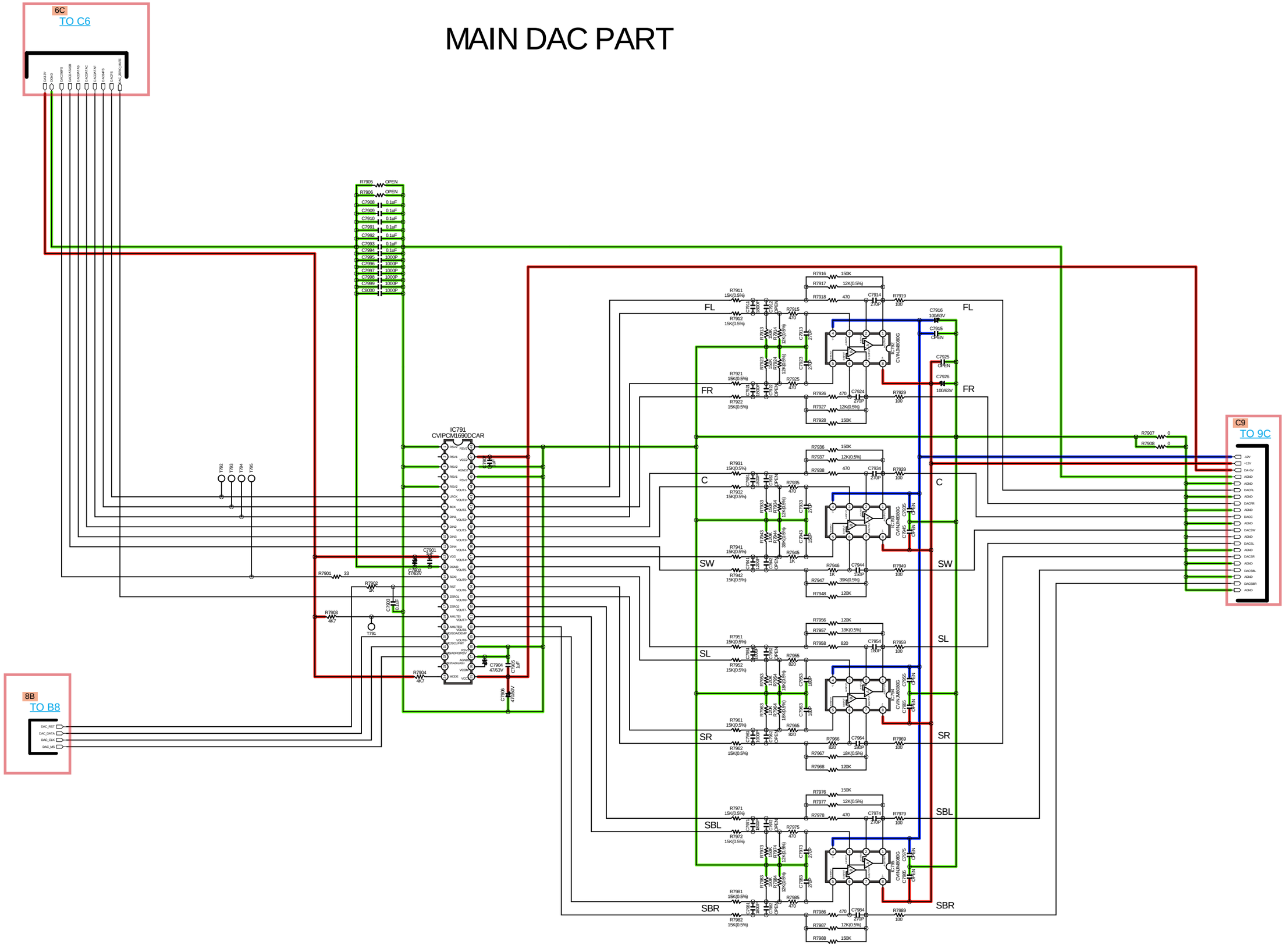
X7801
12.288MHz
TXC 21.875MHz

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

SCHEMATIC DIAGRAMS (8/19)

SCH08_DSP

MAIN DAC PART



SCHEMATIC DIAGRAMS (9/19)

SCH09_MAIN DAC

NETWORK PART

NETWORK MODULE

BASIC CONNECTOR

EXTENDED CONNECTOR

4B
TO B4

0C
TO C0

TO CONNECT B'D
2.0mm 4PIN WIRE
CW821
TO CN915

FROM USB B'D

OPTION5

	OPTION4	OPTION5	CW821
CX870	X	X	O
CY920	O	O	X

	R8050	R8041	R8013
W. IP1756	0	OPEN	OPEN
W/O IP175	OPEN	10	0

	OPTION1	OPTION2	OPTION3
CX870	X	O	X
CY920	O	X	O

OPTION1
OPTION2
OPTION3
OPTION4

	R8058	R8059
I2S	O	X
LEFT JUSTIFIED	X	O

8C
TO C8

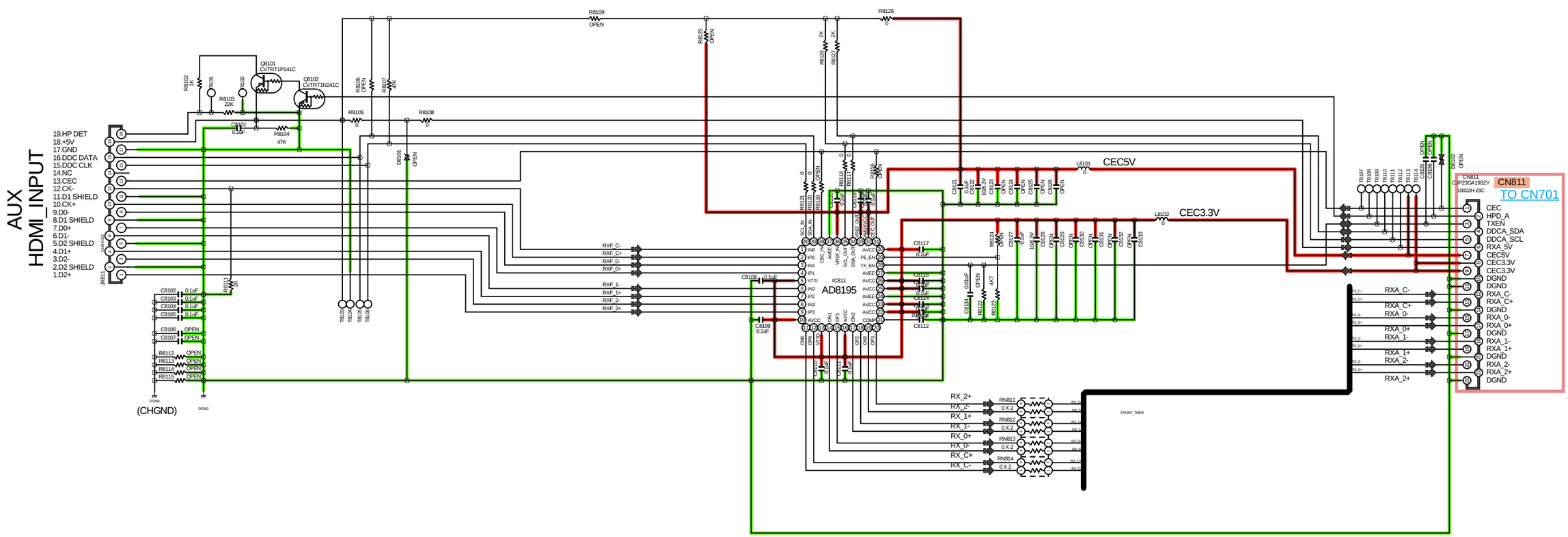
2A
TO A2

D0
TO 0D

SCHEMATIC DIAGRAMS (10/19)
SCH10_NETWORK

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

FRONT_HDMI PART



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

SCHEMATIC DIAGRAMS (11/19)

SCH11_FRONT_HDMI

ANALOG PART

CN821
CJP06H-U2822
C125Z2-09
CH_GND
INT
/RST
/CE
SDIO
SCLK
VCC
R-OUT
L-OUT
CN821
TO CN508

CBL/SAT INPUT
Media Player INPUT
JK821
CJ14P048U
L CH
R CH

PRE OUT
JK822
CJ14N110Z
SW1
SW2

ZONE2 OUT
JK851
CJ14N034U

AVR-X1100W E3 ONLY

IC821
NJU72340AFH3

IC851
CVIB03812F

IC852
CVINJM8080G

ZONE2_L
ZONE2_R
ZONE2_MUTE
SW_MUTE

1C TO C1
0D TO D0
9C TO C9
7C TO C7
CN822 TO CN201
3C TO C3
CN823 TO BN301

CN822
CJP15H-U282Z
C125Z2-15
+12V
AGND
SBL
AGND
SBR
AGND
FL
AGND
SL
AGND
CEN
AGND
SR
AGND
FR

CN823
CJP07GI289ZY
DA+5V
DA_GND
+12V
AGND
-12V
RLY_GND
VGND(RET_GND)

COMPOSITE VIDEO IN
JK881
CJ14S262Z
CBL/SAT
Media Player
MONITOR

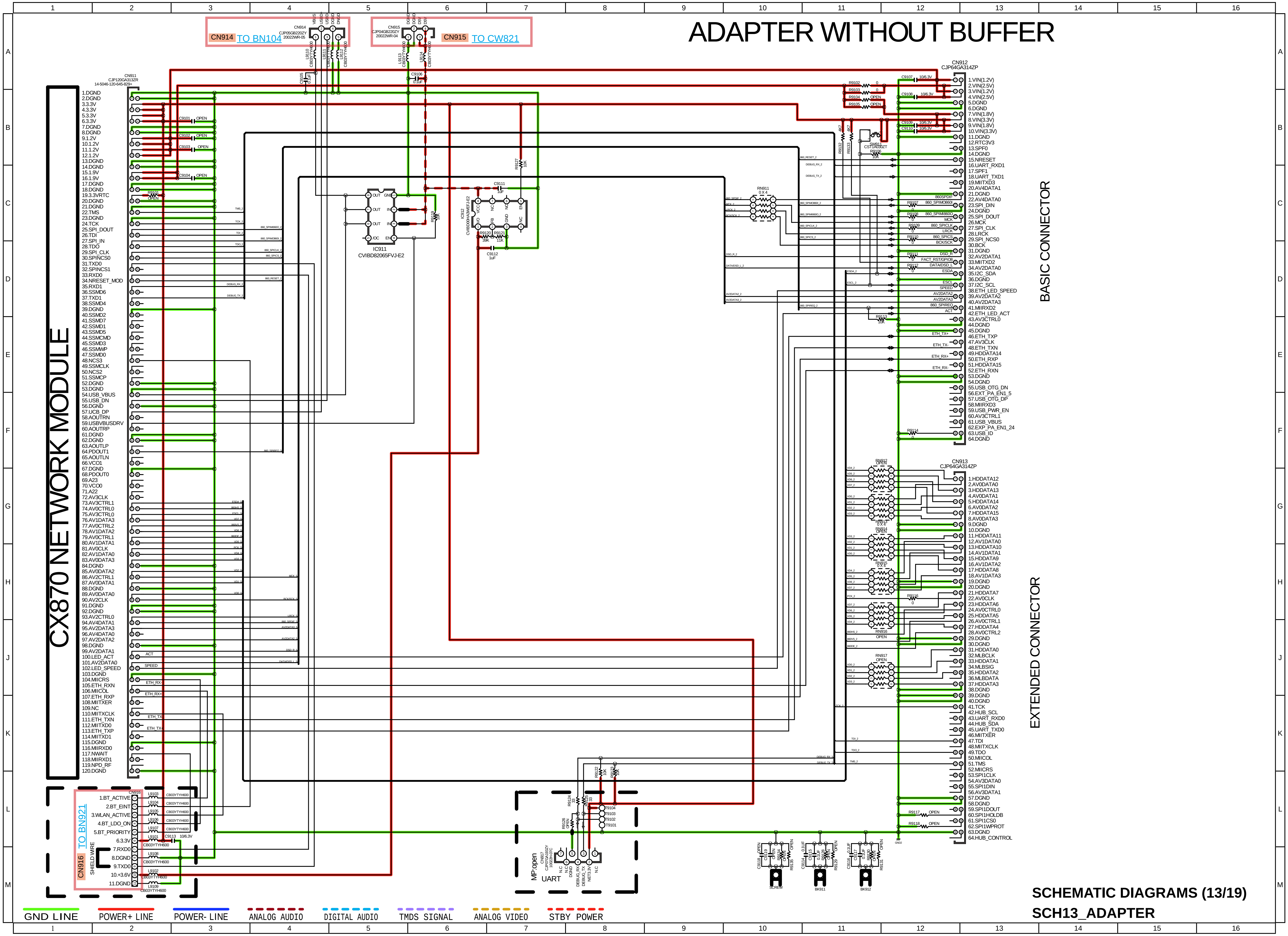
VIDEO PART

NLM2595 S/W TABLE(SW2,5 CONTROL)

FUNC.IN	SW1 (14) FIX	SW2 (10)	SW3 (4) FIX	SW4 (6) FIX	SW5 (2)
MUTE	H	L	X (L)	L	L
Media Player	H	L	X (L)	L	H
SAT/CBL	H	H	X (L)	L	H

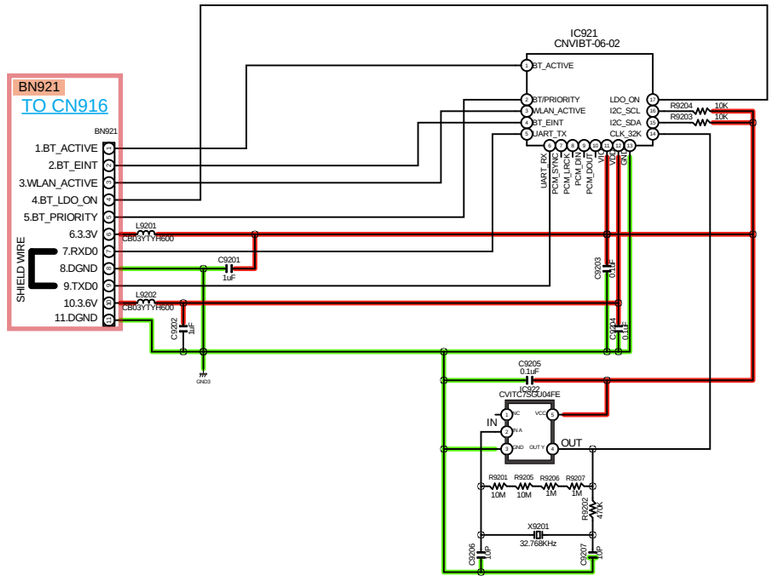
GND LINE
POWER+ LINE
POWER- LINE
ANALOG AUDIO
DIGITAL AUDIO
TMDS SIGNAL
ANALOG VIDEO
STBY POWER

SCHEMATIC DIAGRAMS (12/19)
SCH12_ANALOG


ADAPTER WITHOUT BUFFER
CN914 TO BN104
CN915 TO CW821
CX870 NETWORK MODULE
CN911
CJP120GA313ZR
CN912
CJP64GA314ZP
BASIC CONNECTOR
CN913
CJP64GA314ZP
EXTENDED CONNECTOR
IC911
CVIBD82065FVJ-E2
CN916 TO BN921
SHIELD WIRE
MP:open
UART
GND LINE
POWER+ LINE
POWER- LINE
ANALOG AUDIO
DIGITAL AUDIO
TMDS SIGNAL
ANALOG VIDEO
STBY POWER
SCHEMATIC DIAGRAMS (13/19)
SCH13_ADAPTER

BLUETOOTH PART

BLUETOOTH MODULE

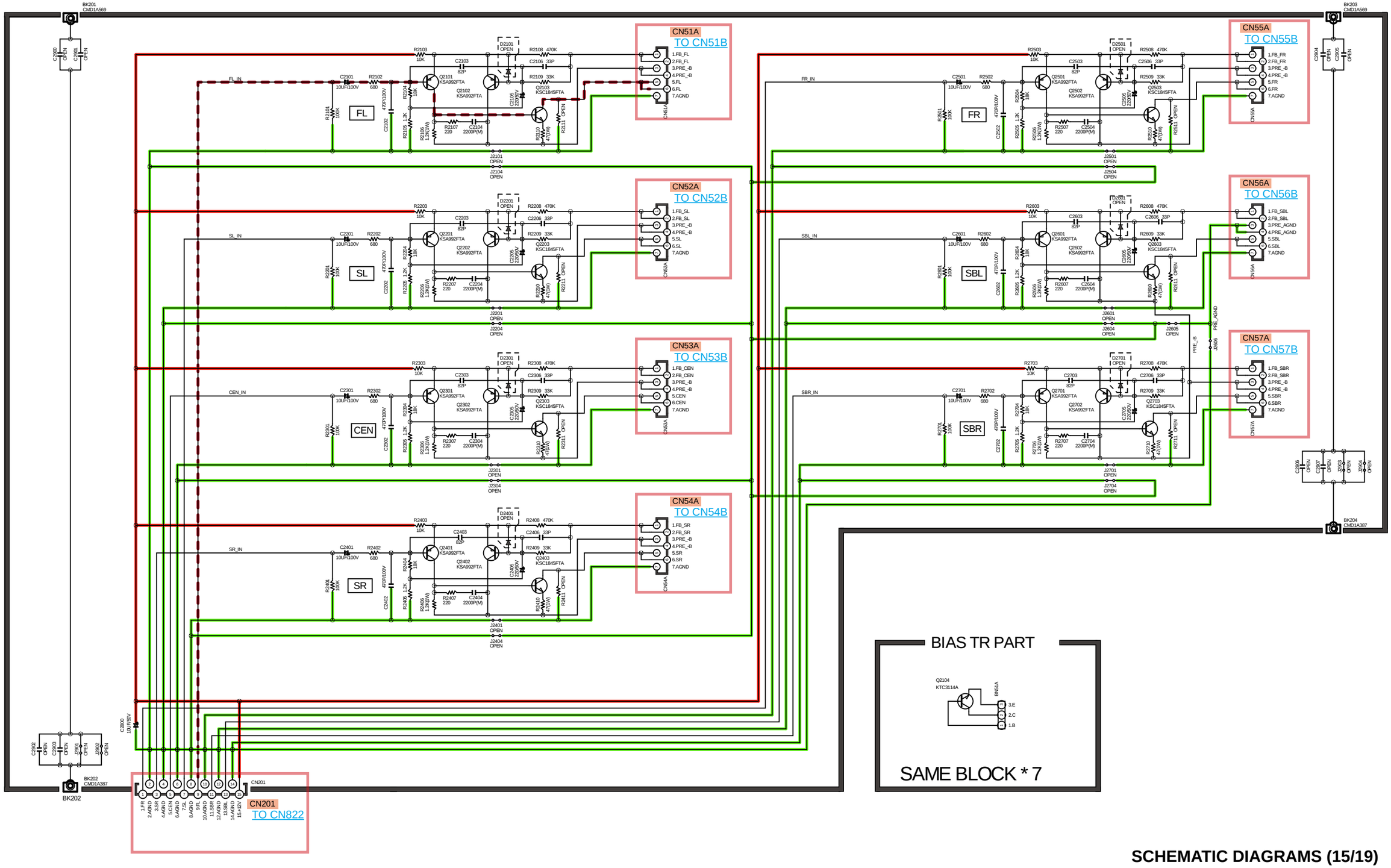


GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (14/19)

SCH14_BLUETOOTH

AVR-S700W/X1100W DIFF-AMP PART



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

SCHEMATIC DIAGRAMS (15/19)

SCH15_DIFF-AMP

MAIN PART

FROM DIFF-AMP B'D

CN51B TO CN51A
CN52B TO CN52A
CN53B TO CN53A
CN54B TO CN54A
CN55B TO CN55A
CN56B TO CN56A
CN57B TO CN57A

FL
SL
CEN
SR
FR
SBL
SBR

PTC Thermistors
PRF18BB471QB5RB
RECHECK

TEMP_DETECT PART
ALL OPEN
BK502 BRACKET CMD1A629
BN791 TO CN764
1.THERMALDET_F
2.THERMALDET_E
1.DGND

BN503 TO CN104
1.HP_RCH
2.AGND
3.HP_LCH

SPEAKER JACK
JK501 FL-CH
JK502 FR-CH
JK503 SL-CH
JK504 SR-CH
JK505 C-CH
JK506 SBL-CH
JK507 SBR-CH

CURRENT DETECT PART
RECHECK

DC PROTECTION PART

TUNER PART
TUNER MODULE
E3:CNVYST990-A9U1(FM/AM)
E1:CNVYST990-D8E1(FM/AM)
E1C/K:CNVYST990-A2J1(FM/AM)
CN508 TO CN821
1.L-OUT
2.R-OUT
3.VCC
4.SCLK
5.SDIO
6.ICE
7.RST
8.INT
CH_GND

BN502 TO CN762
1.THERMALDET_A
2.RLY_GND
3.HP_RLY
4.HI-B_RLY
5.+12V
6.FRONT_RLY
7.CS_RLY
8.SB_RLY
9.NC

BN501 TO CN761
1.CURRENT_DET
2.CURRENT_GND
3.-12V
4.MUTE_+B
5.ASO_DET
6.DGND
7.DC_PROT
8.THERMALDET_B
9.AMPSIG_DET

CN502 CJP07GA902Y
AC_L
N.C
AC_H
CEN
AC_H
N.C
AC_L

SCHEMATIC DIAGRAMS (16/19)
SCH16_MAIN

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

AVR-S500BT/X510BT/S700W/X1100W FRONT PART

BN12B1
TO CN751
BN12B1
CJP27GB286ZN

AVR-X1100W E3 ONLY

CUP12619Z-1

CUP12619Z-2

CUP12619Z-5

CUP12619Z-3

CUP12619Z-4

*OPTION

AVR-S500BT/AVR-X510BT RESISTOR VALUE

	KEY_1					KEY_2					KEY_3				
	R1071	R1072	R1073	R1074	R1075	R1076	R1077	R1078	R1079	R1080	R1081	R1082	R1083	R1084	R1085
AVR-S500BT	5.6K	3.3K	2.7K	1.5K	1K	5.6K	3.3K	2.7K	1.5K	1K	5.6K	3.3K	2.7K	1.5K	1K
AVR-X510BT	OPEN	OPEN	1.5K	1K	0	OPEN	1.5K	1K	0	0	OPEN	2.7K	1.5K	1K	0

AVR-S700W/AVR-X1100W RESISTOR VALUE

	KEY_1					KEY_2					KEY_3				
	R1071	R1072	R1073	R1074	R1075	R1076	R1077	R1078	R1079	R1080	R1081	R1082	R1083	R1084	R1085
AVR-S700W	330	220	180	150	100	330	220	180	150	100	330	220	180	150	100
OTHER	OPEN	OPEN	150	100	0	OPEN	150	100	0	0	OPEN	180	150	100	0

KEY OPTION

	SW102	SW103	SW104	SW105	SW106	SW107	SW108	SW109	SW110	SW111	SW112	SW113	SW114	SW115	SW116	SW117	SW118	SW119
AVR-S500BT/AVR-S700W	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
OTHER	X	X	O	O	O	X	X	O	O	O	X	X	X	O	O	O	O	X

KEY NAME

	KEY_1					KEY_2						KEY_3					
	SW102	SW103	SW104	SW105	SW106	SW107	SW108	SW109	SW110	SW111	SW112	SW113	SW114	SW115	SW116	SW117	SW118	SW119
AVR-S500BT	NIGHT	TONE	TUNE+	PRESET-	SOUND-	Q/S_1	RESTORE	PRESET+	MODE	STATUS	Q/S_4	Q/S_2	EQ	SOUND+	TUNE-	BAND	DIMMER	Q/S_3
AVR-X510BT	-	-	STATUS	PRESET-	SOUND-	-	-	PRESET+	Q/S_2	Q/S_4	-	-	-	SOUND+	DIMMER	Q/S_1	Q/S_3	-
AVR-S700W	PURE	GAME	TUNE+	PRESET-	Z2 ON/OFF	Q/S_1	MOVIE	PRESET+	MODE	STATUS	Q/S_4	Q/S_2	MUSIC	Z2 SEL	TUNE-	BAND	DIMMER	Q/S_3
AVR-X1100W	-	-	STATUS	Z2 ON/OFF	PRESET-	-	-	Z2 SEL	Q/S_2	Q/S_4	-	-	-	PRESET+	DIMMER	Q/S_1	Q/S_3	-

LED OPTION

	AVR-X1100W E3	OTHER
D1012	WHITE/RED	GREEN/RED
R1041	1K2	1K2
R1042	1K2	1K2
R1043	4K7	4K7
R1044	OPEN	OPEN
D1002	1SS133M	OPEN

AVR-S500BT/X500BT ONLY

AVR-S700W/X1100W ONLY

ENCODER&POWER

HEADPHONE

2.0mm 5PIN WIRE

2.0mm 9PIN WIRE

2.0mm 3PIN WIRE

2.0mm 3PIN WIRE

VOLUME ENCODER 24CLICK

MIC

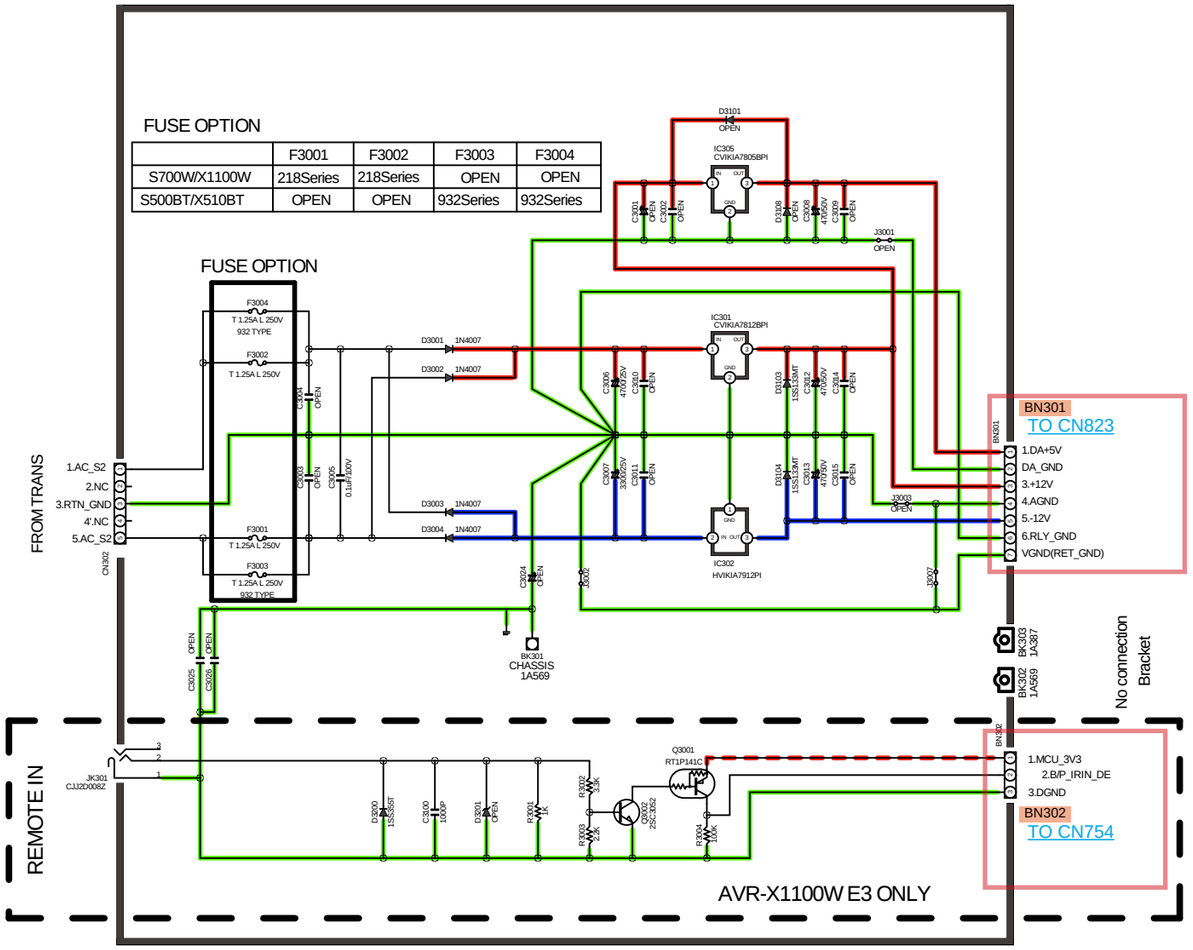
JACK IN : SWOPEN

iPOD/USB

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

SCHEMATIC DIAGRAMS (17/19)
SCH17_FRONT

REGULATOR PART

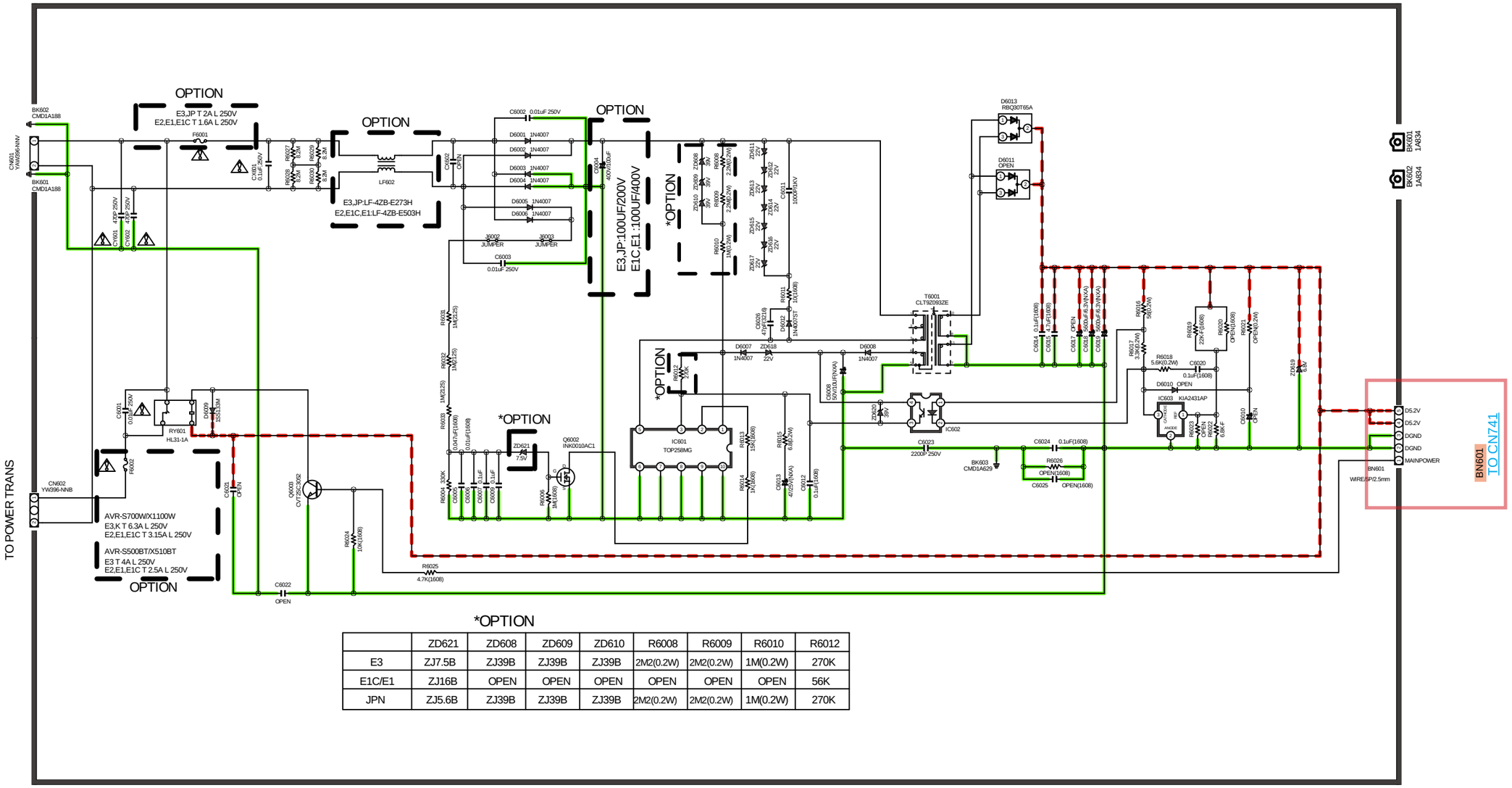


GND LINE | POWER+ LINE | POWER- LINE | ANALOG AUDIO | DIGITAL AUDIO | TMDS SIGNAL | ANALOG VIDEO | STBY POWER

SCHEMATIC DIAGRAMS (18/19)

SCH18_REGULATOR

SMPS PART



*OPTION

	ZD621	ZD608	ZD609	ZD610	R6008	R6009	R6010	R6012
E3	ZJ7.5B	ZJ39B	ZJ39B	ZJ39B	2M2(0.2W)	2M2(0.2W)	1M(0.2W)	270K
E1C/E1	ZJ16B	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	56K
JPN	ZJ5.6B	ZJ39B	ZJ39B	ZJ39B	2M2(0.2W)	2M2(0.2W)	1M(0.2W)	270K

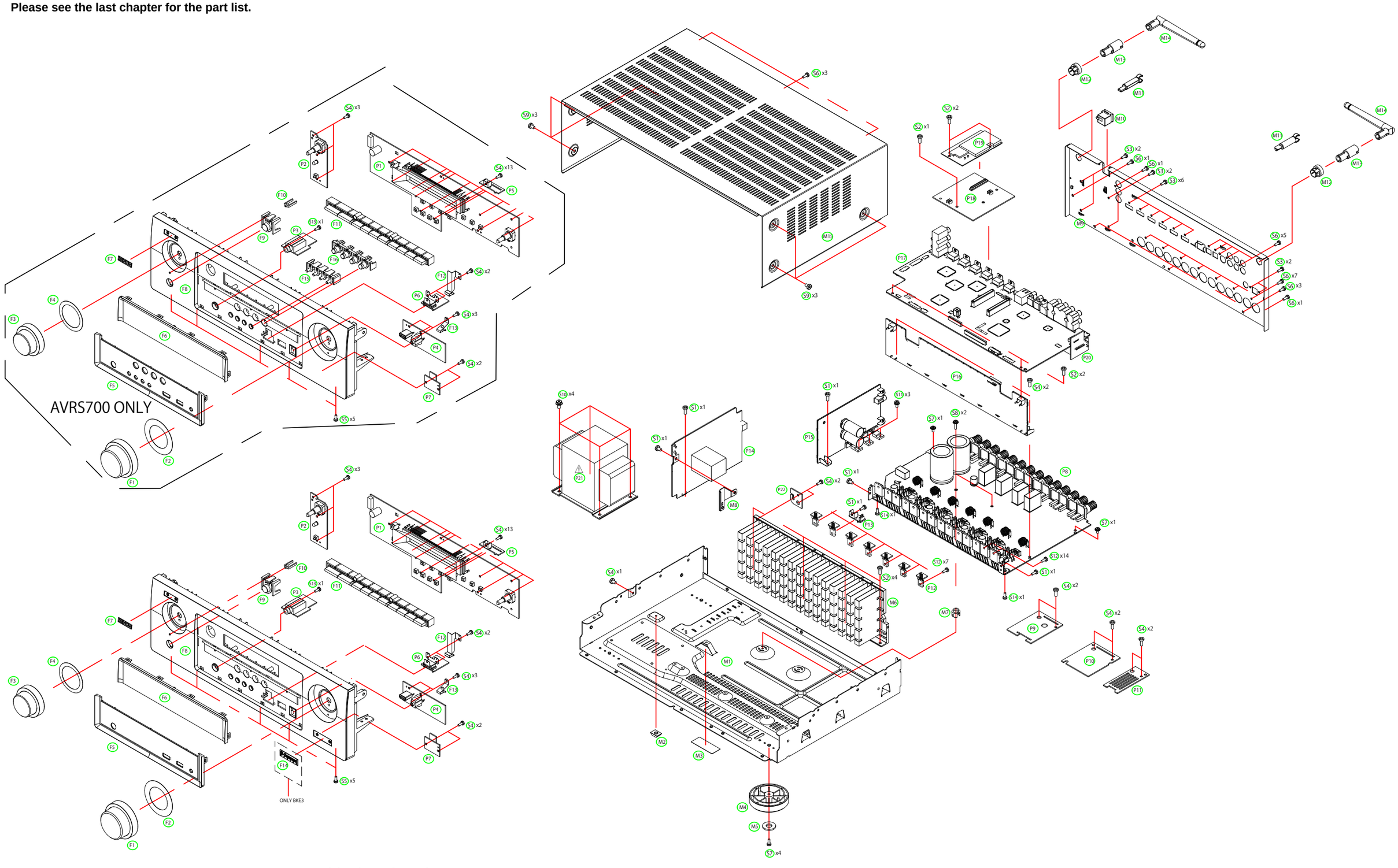
** IMPORTANT SAFETY NOTICE:
COMPONENT IDENTIFIED BY ⚠ MARK HAVE SPECIAL CHARACTERISICS.
IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS
USE ONLY MANUFACTURER'S SPECIFIED PARTS.
** THE UNIT OF RESISTANCE IS OHM.
K = 1000 OHM. M = 1000KOHM.
** THE UNIT OF CAPACITANCE IS MICROFARAD(uF)
PF =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

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

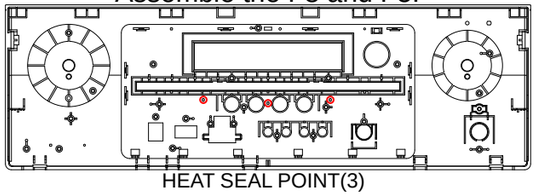
SCHEMATIC DIAGRAMS (19/19)
SCH19_SMPS

EXPLODED VIEW

Please see the last chapter for the part list.



Assemble the F8 and F5.



HEAT SEAL POINT(3)

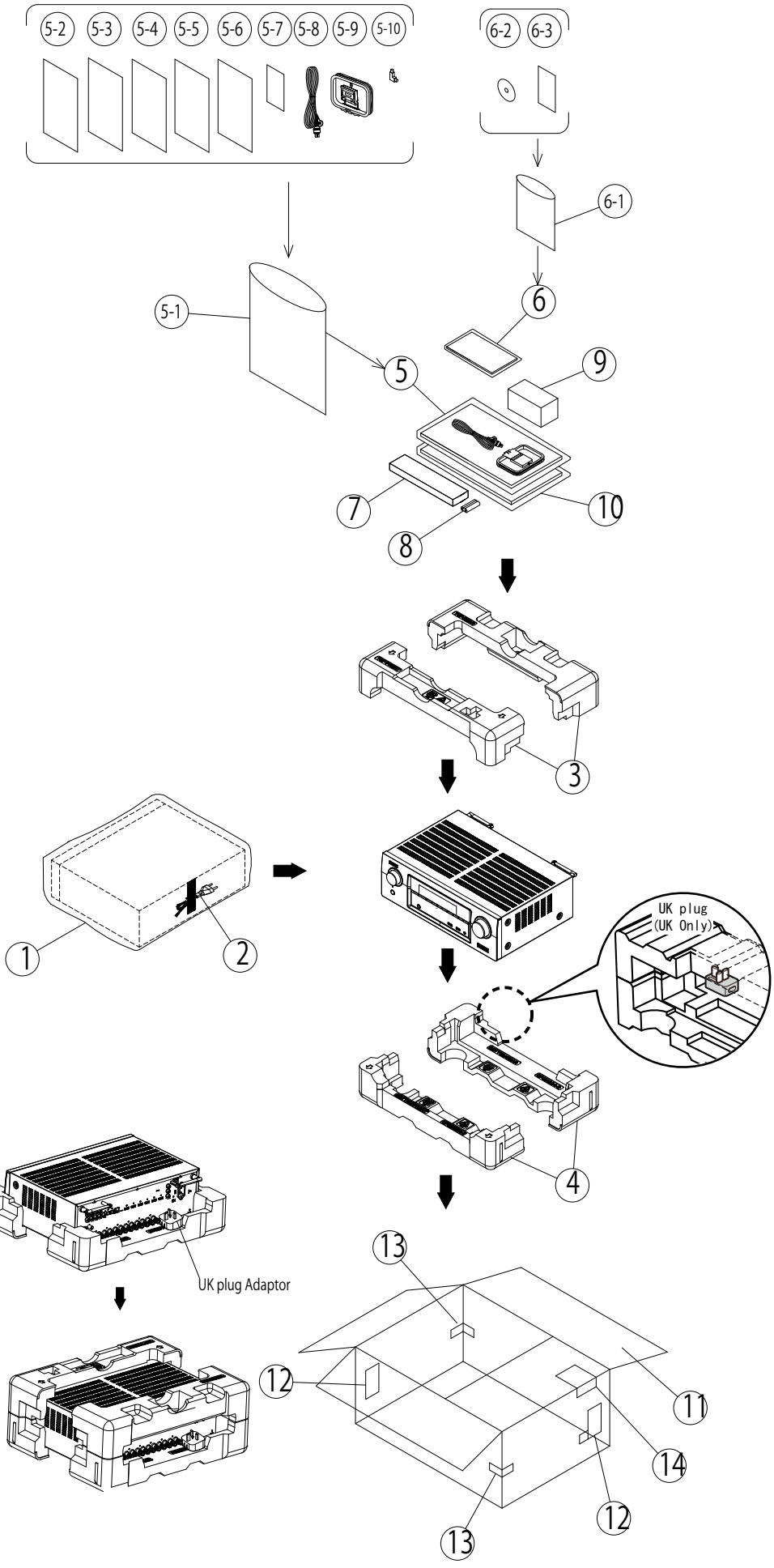
WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

Personal notes:

Personal notes:

PACKING VIEW

Please see the last chapter for the part list.

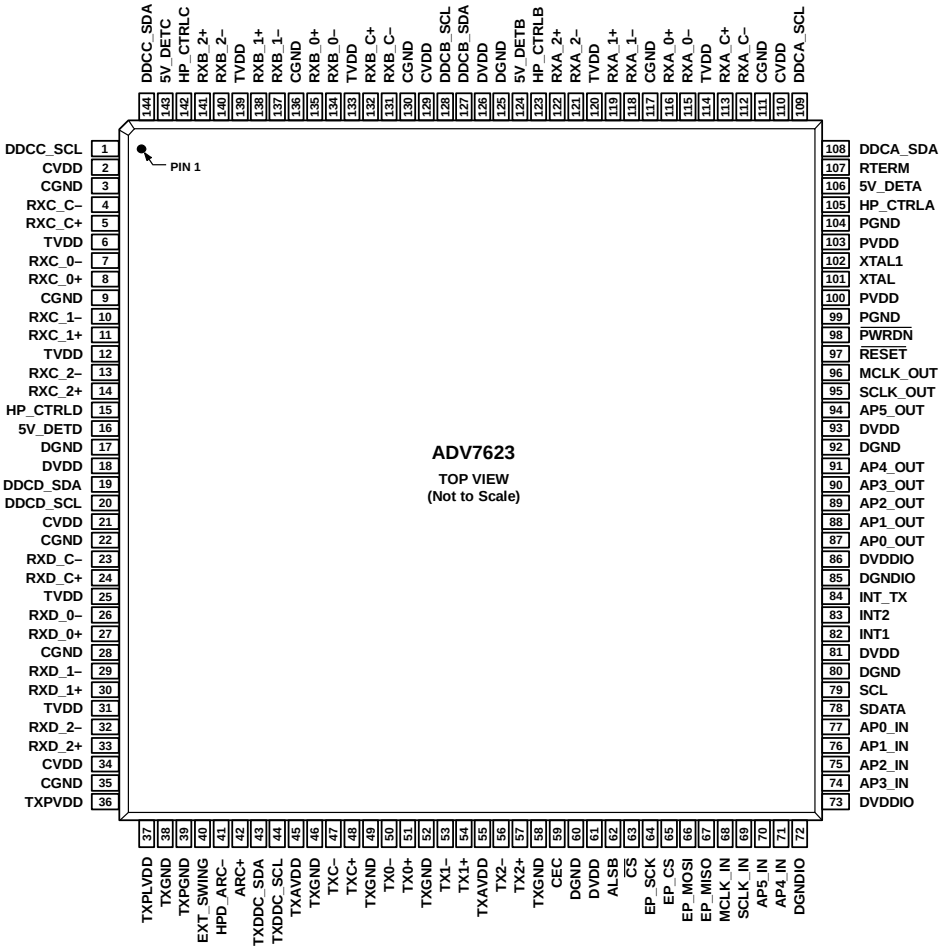


SEMICONDUCTORS

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

1. IC's

ADV7623 (DIGITAL_HDMI_ADV7623 : IC721)



Pin Function Descriptions

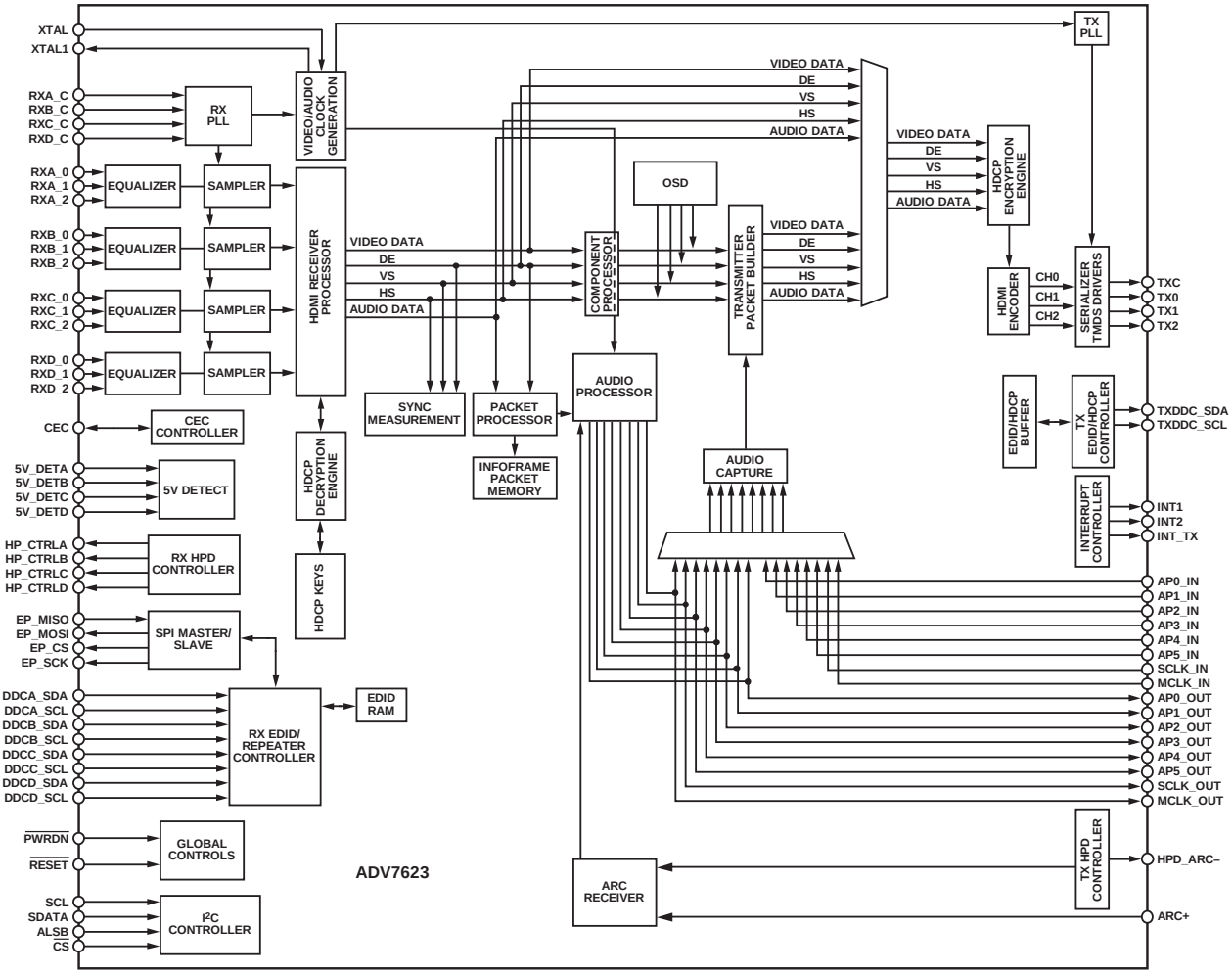
Pin No.	Mnemonic	Type	Description
1	DDCC_SCL	Digital input	HDCP Slave Serial Clock Port C. DDCC_SCL is a 3.3 V input that is 5 V tolerant.
2	CVDD	Power	Receiver Comparator Supply Voltage (1.8 V).
3	CGND	Ground	TVDD and CVDD Ground.
4	RXC_C–	HDMI input	Digital Input Clock Complement of Port C in the HDMI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

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

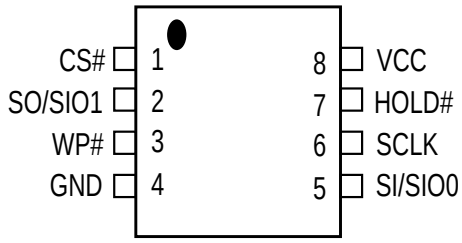
Pin No.	Mnemonic	Type	Description
13	RXC_2–	HDMI input	Digital Input Channel 2 Complement of Port C in the HDMI Interface.
14	RXC_2+	HDMI input	Digital Input Channel 2 True of Port C in the HDMI Interface.
15	HP_CTRLD	Digital output	Hot Plug Detect for Port D.
16	5V_DETD	Digital input	5 V Detect Pin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

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

ADV7623 Block diagram



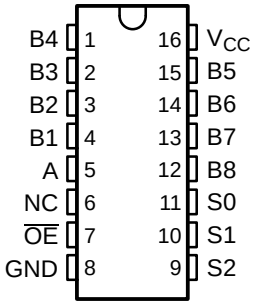
DIGITAL_HDMI_ADV7623 : IC722
MX25L3206EM2I-12G (except : E2)
MX25L6406EM2I-12G (ONLY E2)



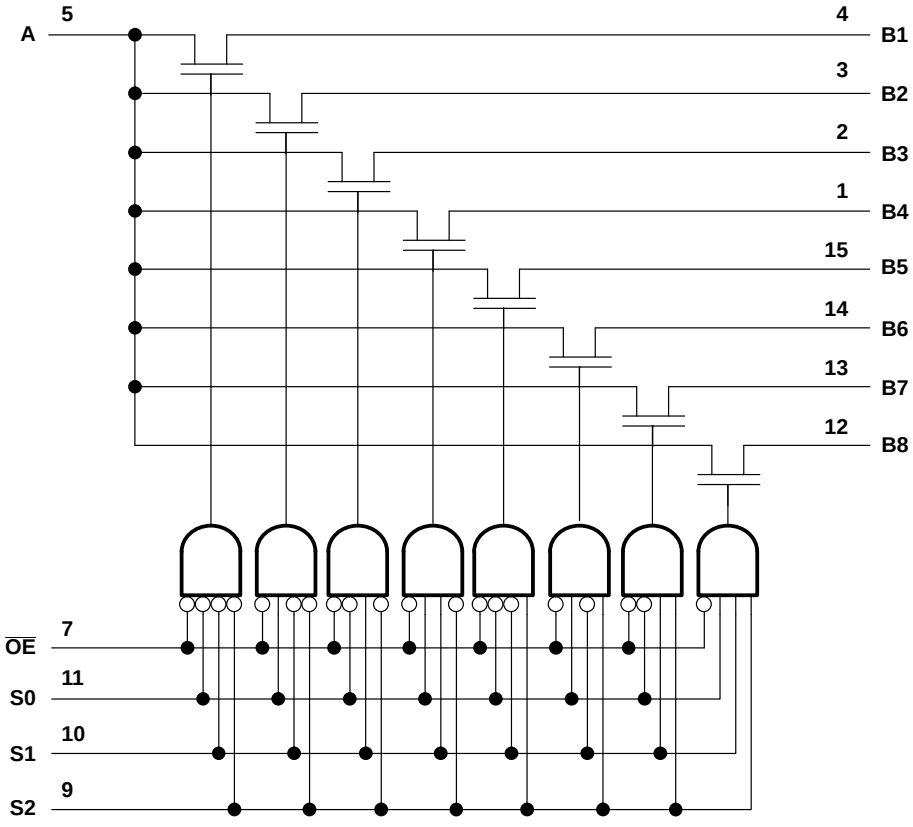
PIN DESCRIPTION

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

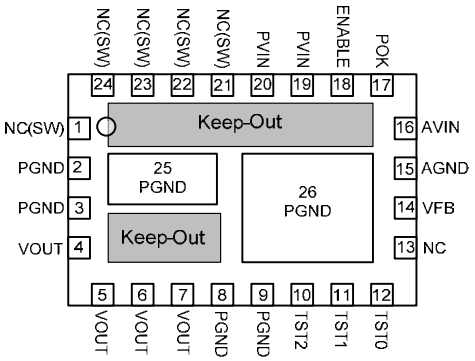
SN74CBT3251PWR (DIGITAL_HDMI_ADV7623 : IC723)



Block diagram



EN5339QI (DIGITAL_DIGITAL SUPPLY : IC741~146)

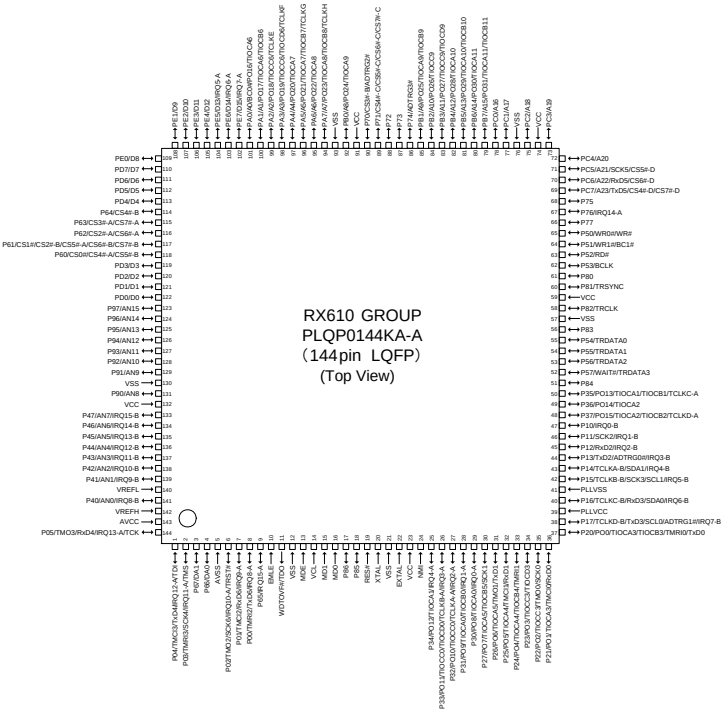


EN5339QI Terminal Functions

Pin Description

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

R5F56108VNFP (DIGITAL_MCU : IC751)



R5F56108VNFP Terminal Functions

Pin	Pin Name	Symbol	I/O	Pu/Pd	Lv Cnv	STBY	STOP	CEC STBY	Function
1	P04/IRQ12-A/TMCI3/ TxD4/TDI	TDI/TXD MITSUBISHI/ NC(NORMRAL)	I/O/I	M3VPu		-/-/I	-/-/I	I	E20 Emulator Control signal/ MITSUBISHI writer rewrite/set normal:"input"
2	P03/IRQ11-A/TMRI3/ SCK4/TMS	TMS/ NC(NORMRAL)	I/I	M3VPu		-/I	-/I	I	E20Emulator Control signal/set normal:"input"
3	P67/DA1	HUB SDA	O			L	L	L	870 Joint board HUB IC Control
4	P66/DA0	HUB SCL	O			L	L	L	870 Joint board HUB IC Control
5	AVSS	AVSS	-			-	-	-	GND
6	P02/IRQ10-A/TMO2/ SCK6/TRST#	TRST#/ NC(NORMRAL)	I/I	Pd		I/I	I/I	I	E20Emulator Control signal/set normal:"input"
7	P01/IRQ9-A/TMCI2/ RxD6	RXD MI232O	I	M3VPu		I	I	I	Data received from the external pin (AMX/ Update) :FFC Connect
8	P00/IRQ8-A/TMRI2/ TxD6	TXD MO232I	O			L	L	L	Data transfer to external pin (AMX/Update) :FFC Connect
9	P65/IRQ15-A	POWER KEY	I	M3VPu		I	I	I	POWER KEY(WAIT MODE cancel, interrupt port)
10	EMLE	EMLE	I	Pd		-	-	-	E20Emulator Control signal "H":Usable , "L"Unavailable(Pull-down is necessary to single CPU operation)
11	WDTOVF#/TDO	TDO/WDTOVF#	O/O			-	-	-	E20 Emulator Control signal
12	VSS	VSS	I			-	-	-	GND
13	MDE	MDE	I	Pd		-	-	-	Endian("L"=LittleEndian)
14	VCL	VCL	I			-	-	-	Connect to VSS via a C of 0.1 μF
15	MD1	MD1	I	M3VPu		-	-	-	"BootMode, UserBootMode, SingleChipMode (SingleChipMode:MD0=1,MD1=1) E20Emulator Control signal"
16	MD0	MD0	I	M3VPu		-	-	-	
17	P86	CEC POWER2	O			L	L	H	CEC Standby Mode=3 Control)
18	P85	Tx EN	O			L	L	L	Front HDMI Control AD8195 ENABLEpin
19	RES#	RESET	I			-	-	-	RESET
20	XTAL	XTAL	I			-	-	-	Oscillator connection (12MHz(Tentative))
21	VSS	VSS	-			-	-	-	GND
22	EXTAL	EXTAL	-			-	-	-	Oscillator connection(12MHz(Tentative))
23	VCC	VCC	-			-	-	-	POWER pin
24	NMI	NMI	I	M3VPu		-	-	-	PullUp
25	P34/IRQ4-A/PO12/ TIOCA1	BDOWN	I			I	I	I	Power failure detection pin
26	P33/IRQ3-A/PO11/ TIOCC0/TIOCD0/ TCLKB-A	DAC.PLD ERR	I			L	L	L	DAC.PLD ERROR detection pin(APLD and DAC)

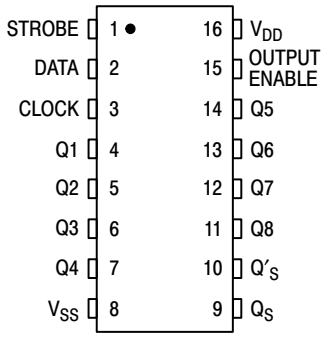
Pin	Pin Name	Symbol	I/O	Pu/Pd	Lv Cnv	STBY	STOP	CEC STBY	Function
27	P32/IRQ2-A/PO10/ TIOCC0/TCLKA-A	MN864778A HINT	I			I	I	I	MN864778A HDMI INT input
28	P31/IRQ1-A/PO9/ TIOCA0/TIOCB0	ADV7623 INT1	I			I	I	I	ADV7623 INT1 output
29	P30/IRQ0-A/PO8/ TIOCA0	RC IN	I			I	I	I	RemoteControl Signal input
30	P27/PO7/TIOCA5/ TIOCB5/SCK1	Hi-B RL	O			L	L	L	HIGH B RELAY Control
31	P26/PO6/TIOCA5/ TMO1/TxD1	PSCL	I/O	C	CEC 3VPu	O/L	L	L	MN864778/778A Control
32	P25/PO5/TIOCA4/ TMCI1/RxD1	PSDA	I/O	C	CEC 3VPu	O/L	L	L	MN864778/778A Control
33	P24/PO4/TIOCA4/ TIOCB4/TMRI1	TU RST	O	SW3VPu		L	L	L	TUNER Control
34	P23/PO3/TIOCC3/ TIOCD3	E RESET	O (ODR)	N3VPu		L	L	L	ETHERNET RESET Control pin (CY920) ※control in the NMOS open-drain configuration
35	P22/PO2/TIOCC3/ TMO0/SCK0	E SPI CLK	O	N3VPu		L	L	L	ETHERNET Communication control pin (CY920)
36	P21/PO1/TIOCA3/ TMCI0/RxD0	E SPI MIEO	I	N3VPu		I	L	I	ETHERNETCommunication control pin (CY920)
37	P20/PO0/TIOCA3/ TIOCB3/TMRI0/TxD0	E SPI MOEI	O	N3VPu		L	L	L	ETHERNETCommunication control pin (CY920)
38	P17/IRQ7-B/ TCLKD-B/TxD3/ SCL0/ADTRG1#	TU SCLK	O			L	L	L	TUNER Control
39	PLLVCC	PLLVCC	-			-	-	-	PLL POWER pin
40	P16/IRQ6-B/ TCLKC-B/RxD3/ SDA0	TU SDIO	I_O			L	L	L	TUNER Control
41	PLLVSS	PLLVSS	-			-	-	-	PLL GND pin
42	P15/IRQ5-B/ TCLKB-B/SCK3/ SCL1	EEPROM SCL	O	M3VPu		I	I	I	EEPROM Control pin
43	P14/IRQ4-B/ TCLKA-B/SDA1	EEPROM SDA	I_O	M3VPu		I	I	I	EEPROM Control pin
44	P13/IRQ3-B/TxD2/ ADTRG0#	ADV7623 SPI MO	O			L	L	L	OSD Control pin (ADV7623)
45	P12/IRQ2-B/RxD2	ADV7623 SPI MI	I			L	L	L	OSD Control pin (ADV7623)
46	P11/IRQ1-B/SCK2	ADV7623 SPI CLK	O			L	L	L	OSD Control pin (ADV7623)
47	P10/IRQ0-B	ADV7623 SPI CS	O			L	L	L	OSD Control pin (ADV7623)
48	P37/PO15/TIOCA2/ TIOCB2/TCLKD-A	HSCL (400k)	O	CEC 3VPu		L	L	L	ADV7623 Control
49	P36/PO14/TIOCA2	HSDA (400k)	I_O	CEC 3VPu		L	L	L	ADV7623 Control
50	P35/PO13/TIOCA1/ TIOCB1/TCLKC-A	MN864778 RST	O	SW3VPu		L	L	L	MN864778 Reset termina
51	P84	CEC_OUT	O			L	L	-	CEC-D Signal output terminal
52	P57/WAIT#/ TRDATA3	MN864778A RST	O	SW3VPu		L	L	L	MN864778A Reset termina
53	P56/TRDATA2	E POWER1	O			L	L	L	ETHER POWER Control pin (CY920)(3.3V Control)
54	P55/TRDATA1	ADV7623 RST	O	SW3VPu		L	L	L	HDMI Tx/Rx/OSD Reset (ADV7623)
55	P54/TRDATA0	E POWER2	O			L	L	L	ETHER POWER Control pin (CY920)(2.5V Control)
56	P83	E POWER3	O			L	L	L	ETHER POWER Control pin (CY920)(1.8V Control)
57	VSS	VSS	-			-	-	-	GND
58	P82/TRCLK	FL CE	O			L	L	L	FL Control pin
59	VCC	VCC	-			-	-	-	POWER pin
60	P81/TRSYNC	FL RST	O			L	L	L	FL Control pin
61	P80	E POWER4	O			L	L	L	ETHER POWER Control pin (CY920)(1.2V Control)
62	BCLK/P53(input 専用)	THERMAL F	I	Pu		I	L	I	PROTECTION detection pin(Heat Sink)
63	P52/RD#	E FACT RST	O	Pd		L	L	L	ETHERNET Control pin (Factory Reset)(CY920)
64	P51/WR1#/BC1#	DAC(ETHER) MUTE	O			L	L	L	DAC MUTE Control pin MUTE ON="L"
65	P50/WR0#/WR#	THERMAL E	I	Pu		I	L	I	PROTECTION detection pin(Heat Sink)
66	P77	H5V DET	I			I	I	I	HDMI IN 5V detection pin

Pin	Pin Name	Symbol	I/O	Pu/Pd	Lv Cnv	STBY	STOP	CEC STBY	Function
67	P76/IRQ14-A	TU GPO2_INT	I			L	L	L	TUNER Control
68	P75	ZVOL MUTE(NA)/ NC(AP/CH)	O			L	L	L	ZONE VOL(BD3812) Control
69	PC7/A23/CS4#-D/ CS7#-D/TxD5	DSP MOSI	O	DA3VPu		L	L	L	DSP communication (transmission)
70	PC6/A22/CS6#-D/ RxD5	DSP MISO	I	DA3VPu		L	L	L	DSP communication (reception)
71	PC5/A21/CS5#-D/ SCK5	DSPI CLK	O	DA3VPu		L	L	L	DSP communication (CLK)
72	PC4/A20	DSP RST	O			L	L	L	DSP RESET
73	PC3/A19	DSP FLAG0	I	Pd		L	L	L	DSP FLAG0 input
74	VCC	VCC	-			-	-	-	POWER pin
75	PC2/A18	DSP ICS	O	DA3VPu		L	L	L	DSP ChipSelect
76	VSS	VSS	-			-	-	-	GND
77	PC1/A17	WHITE LED(NA)/ GREEN LED(AP/CH)	O			L	L	L	POWER LED Control pin (ON:"H")
78	PC0/A16	RED LED	O			L/H	L	H	POWER/STANDBY LED Control pin (ON:"H")(De)
79	PB7/A15/PO31/ TIOCA11/TIOCB11	H/P RL	O			L	L	L	HEADPHONE RELAY Control
80	PB6/A14/PO30/ TIOCA11	FRONT RL	O			L	L	L	SPEAKER RELAY Control
81	PB5/A13/PO29/ TIOCA10/TIOCB10	HUB CONTROL	O			L	L	L	870 oint board HUB IC Control
82	PB4/A12/PO28/ TIOCA10	TU_SEN	O			L	L	L	TUNER Control
83	PB3/A11/PO27/ TIOCC9/TIOCD9	C/S RL	O			L	L	L	SP RELAY Control
84	PB2/A10/PO26/ TIOCC9	SB RL	O			L	L	L	RELAY Control
85	PB1/A9/PO25/ TIOCA9/TIOCB9	D5V POWER	O			L	L	H	Digital 5V Control pin (5 → 3.3V,1.8V)
86	P74/ADTRG3#	DIR CE	O			L	L	L	DIR Control pin
87	P73	DIR DIN	O			L	L	L	DIR Control pin
88	P72	DIR DOUT	I	DA3VPu		I	I	I	DIR Control pin
89	P71/CS4#-C/ CS5#-C/CS6#-C/ CS7#-C	DIR CLK	O			L	L	L	DIR Control pin
90	P70/CS3#-B/ ADTRG2#	DIR RST	O			L	L	L	DIR Control pin
91	VCC	VCC	-			-	-	-	POWER pin
92	PB0/A8/PO24/ TIOCA9	7623 ROM HOLD	O			L	L	L	ADV7623 用 SPI FLASH ROM HOLD Control pin
93	VSS	VSS	-			-	-	-	GND
94	PA7/A7/PO23/ TIOCA8/TIOCB8/ TCLKH	VEXP OE	O			L	L	L	VIDEO Control EXPANDER Control pin
95	PA6/A6/PO22/ TIOCA8	VSEL A	I			I	I	I	Master Volume Rotation detection input （ENCODOR） ※ Operate as VSEL B
96	PA5/A5/PO21/ TIOCA7/TIOCB7/ TCLKG	VSEL B	I			I	I	I	Master Volume Rotation detection input （ENCODOR） ※ Operate as VSEL A
97	PA4/A4/PO20/ TIOCA7	ZVOL DATA(NA)/ NC(AP/CH)	O			L	L	L	ZONE VOL(BD3812) Control
98	PA3/A3/PO19/ TIOCC6/TIOCD6/ TCLKF	ZVOL CLK(NA)/ NC(AP/CH)	O			L	L	L	ZONE VOL(BD3812) Control
99	PA2/A2/PO18/ TIOCC6/TCLKE	PRE Z2 MUTE(NA)/ NC(AP/CH)	O			L	L	L	ZONE2 PRE OUT MUTE Control
100	PA1/A1/PO17/ TIOCA6/TIOCB6	CLK MUTE	O			L	L	L	PLD Control pin (MUTE CLK SW) MUTE Active="H"
101	PA0/A0/BC0#/PO16/ TIOCA6	PRE MUTE	O			L	L	L	PRE OUT MUTE Control

Pin	Pin Name	Symbol	I/O	Pu/Pd	Lv Cnv	STBY	STOP	CEC STBY	Function
102	PE7/IRQ7-A/D15	MN864778A HAINT	I			I	I	I	MN864778A HDMI Audio INT input
103	PE6/IRQ6-A/D14	MN864778 HINT	I			I	I	I	MN864778 HDMI INT input
104	PE5/IRQ5-A/D13	MN864778 HAINT	I			I	I	I	MN864778 HDMI Audio INT input
105	PE4/D12	ISEL A	I			I	I	I	Input Selector Rotation detection input (ENCODOR) ※ Operate as VSEL B
106	PE3/D11	ISEL B	I			I	I	I	Input Selector Rotation detection input (ENCODOR) ※ Operate as VSEL A
107	PE2/D10	VOL CLK	O			L	L	L	FUNCTION/VOLUME Control(NJU72340A)
108	PE1/D9	VOL DATA	O			L	L	L	FUNCTION/VOLUME Control(NJU72340A)
109	PE0/D8	PLD WRITE	O			L	L	L	PLD/JTAGLINE switching
110	PD7/D7	JTAG TDO	I			L	L	L	JTAG I/F (PLD rewrite)
111	PD6/D6	JTAG TMS/ APLD CS	O/O			L	L	L	JTAG I/F (PLD rewrite)/Audio PLD Control I/F
112	PD5/D5	JTAG TDI/APLD DATA/DAC DATA	O/O			L	L	L	JTAG I/F (PLD rewrite)/Audio PLD Control I/F / DAC Control
113	PD4/D4	JTAG TCK/ APLD CLK/DAC CLK	O/O			L	L	L	JTAG I/F (PLD rewrite)/Audio PLD Control I/F / DAC Control
114	P64/CS4#-B	VEXP STB	O			L	L	L	VIDEO Control EXPANDER Control pin
115	P63/CS3#-A/CS7#-A	THERMAL A	I	SW3VPu		I	L	I	PROTECTION detection pin(THERMAL A)
116	P62/CS2#-A/CS6#-A	E SPI CS	O	N3VPu		L	L	L	ETHERNET Communication Control pin (CY920)
117	P61/CS1#/CS2#-B/ CS5#-A/CS6#-B/ CS7#-B	DAC MS	O			L	L	L	DAC Control (PCM1690)
118	P60/CS0#/CS4#-A/ CS5#-B	DAC RST	O			L	L	L	DAC Control (PCM1690)
119	PD3/D3	VEXP CLK	O			L	L	L	VIDEO Control EXPANDER Control pin
120	PD2/D2	VEXP DATA	O			L	L	L	VIDEO Control EXPANDER Control pin
121	PD1/D1	FL CLK	O			L	L	L	FL Control pin
122	PD0/D0	FL DATA	O			L	L	L	FL Control pin
123	P97/AN15	DA POWER	O			L	L	L	DIGITAL POWER Contro (DA3.3V,DA1.2V) ON/ OFF SW ("H":ON)
124	P96/AN14	CEC POWER	O			L	L	※	CEC STANDBY POWER Contro (CEC5V,CEC3.3V,CEC1.8V)※CEC STANDBY:MODE1=H,MODE2=H,MODE3=L
125	P95/AN13	DV POWER1	O			L	L	※	DIGITAL POWER Contro(VIDEO)(DV5V,DV3.3V) ※ CEC STANDBY:MODE1=H,MODE2=L,MODE3=L
126	P94/AN12	THERMAL B	I	SW3VPu		I	L	I	PROTECTION detection pin(THERMAL B)
127	P93/AN11	MAIN POWER	O			L	L	L	MAIN POWER Control pin
128	P92/AN10	CPU POWER	O			L	L	L	MAIN CPU POWER Control pin(POWER ON : "H") (CEC ON=STANDBY : "H")
129	P91/AN9	AMPSIGDET	I			I	L	I	AMP Supply current detection pin(AD)
130	VSS	VSS	-			-	-	-	GND
131	P90/AN8	MODE	I			I	I	I	Destination switching input
132	VCC	VCC	-			-	-	-	POWER pin
133	P47/IRQ15-B/AN7	DC DET/ASO	I			I	I	I	PROTECTION detection pin(DC DET)/(ASO) A/D
134	P46/IRQ14-B/AN6	H/P DET / MIC DET	I			I	I	I	Headphone detection pin/MIC detection pin A/ D
135	P45/IRQ13-B/AN5	KEY3	I	SW3VPu		I	I	I	KEY input 3 (STANDBY : interrupt setting)
136	P44/IRQ12-B/AN4	KEY2	I	SW3VPu		I	I	I	KEY input 2 (STANDBY : interrupt setting)
137	P43/IRQ11-B/AN3	KEY1	I	SW3VPu		I	I	I	KEY input 1 (STANDBY : interrupt setting)
138	P42/IRQ10-B/AN2	E SPI REQ	I	Pd		I	L	I	ETHERNET Communication Control pin (CY920)
139	P41/IRQ9-B/AN1	CURRENT DET	I			I	L	I	AMP Supply current detection pin(AD)
140	AVSS	AVSS	-			-	-	-	ANALOG GND
141	P40/IRQ8-B/AN0	CEC_IN	I	SW3VPu		I	I	I	CEC-D signal input pin
142	VREF	VREF	-			-	-	-	Reference voltage input
143	AVCC	AVCC	-			-	-	-	ANALOG POWER
144	P05/IRQ13-A/TMO3/ RxD4/TCK	TCK/RXD MITSUBISHI/ NC(NORMRAL)	I/I/I	M3VPu		-/-/I	-/-/I	I	E20Emulator Control signal/MITSUBISHI writer rewrite/set normal:"input"

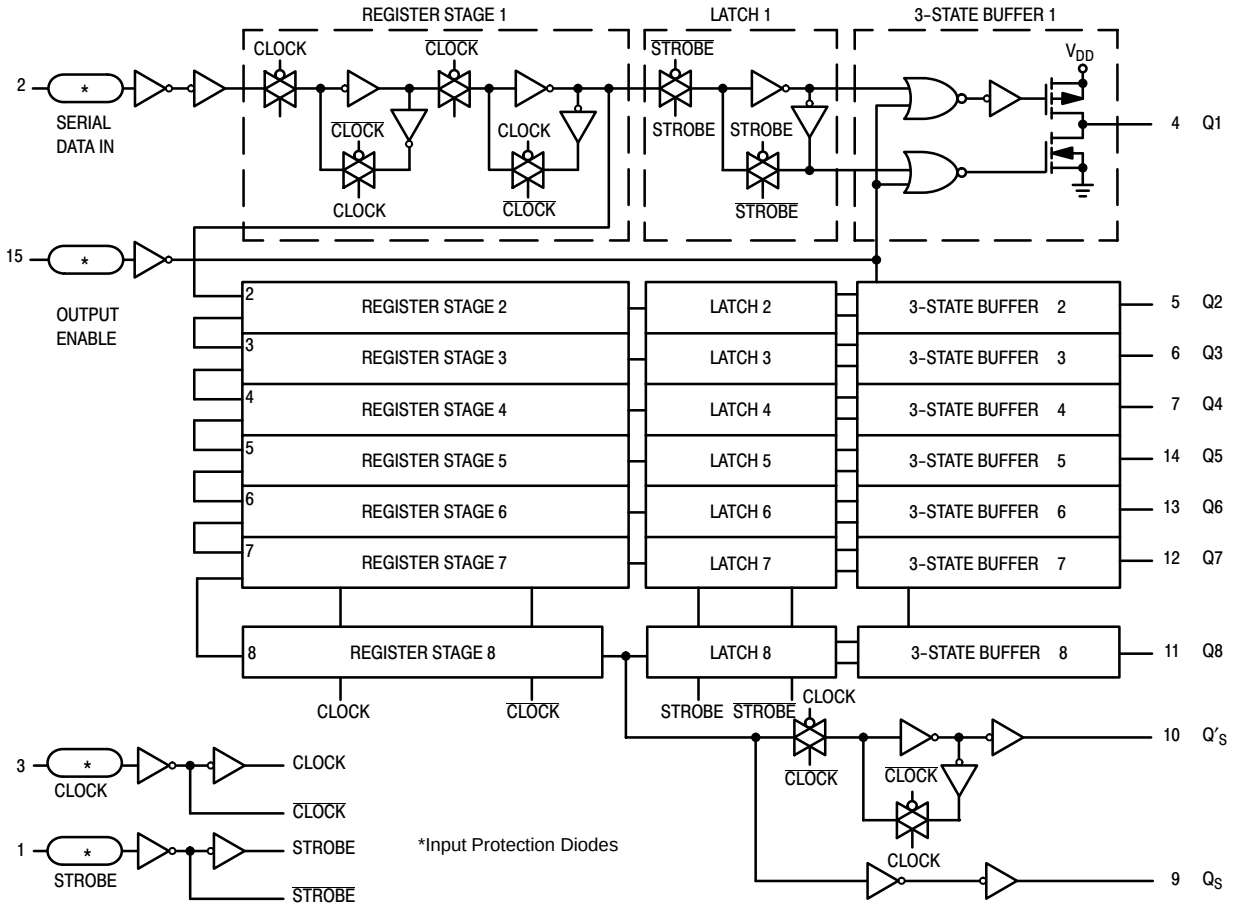
MC14094BDTR2G (DIGITAL_MCU : IC753-754)

PIN ASSIGNMENT



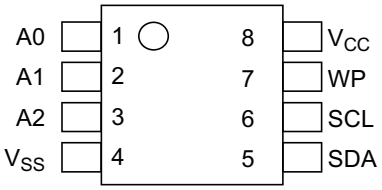
Block diagram

BLOCK DIAGRAM



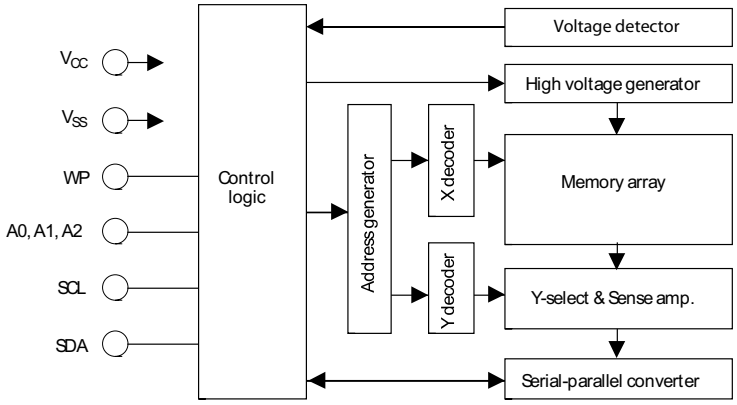
R1EX24128BSASOI (DIGITAL_MCU : IC752)

8-pin SOP/8-pin TSSOP



(Top view)

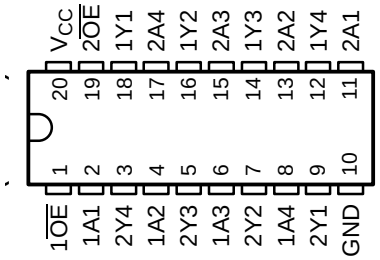
Block diagram



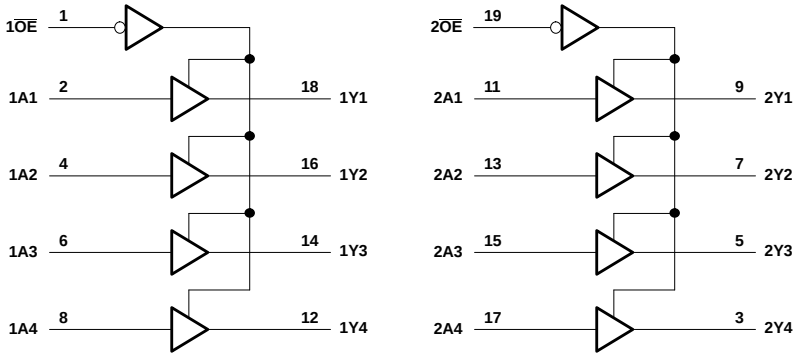
Pin Function Descriptions

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

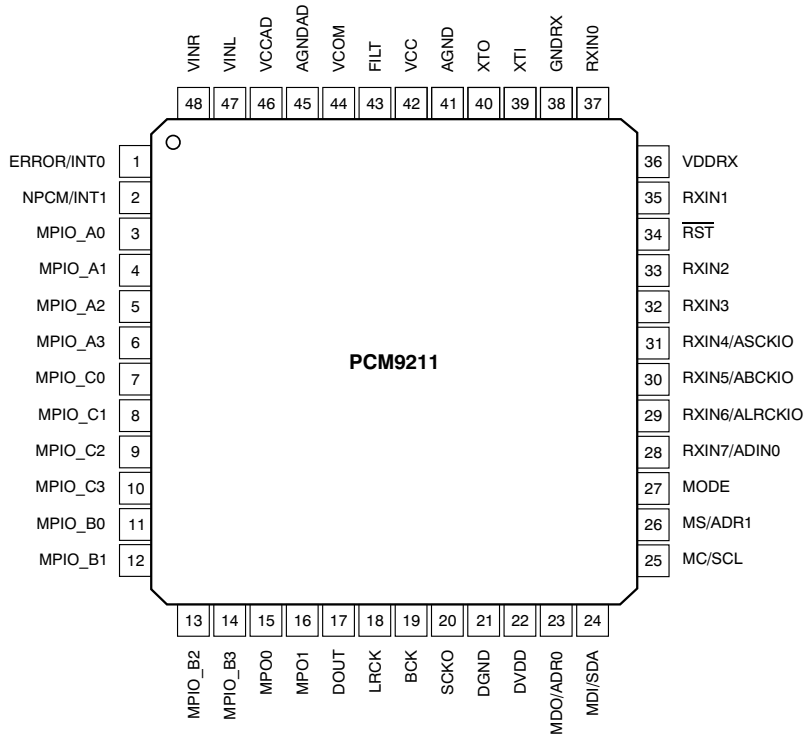
SN74LVC244APWR (DIGITAL_MCU LEVEL CHG : IC761)



Block diagram



PCM9211PTR (DIGITAL_DIR : IC772)



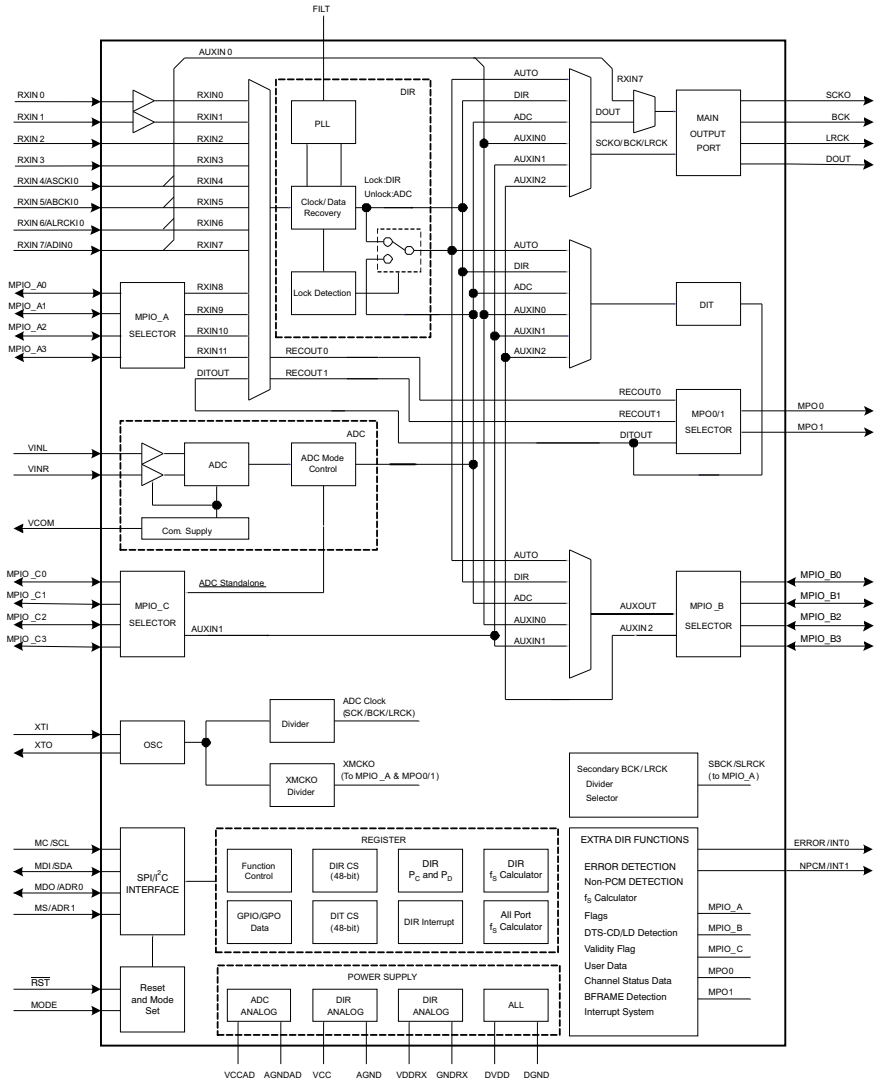
PIN Functions

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

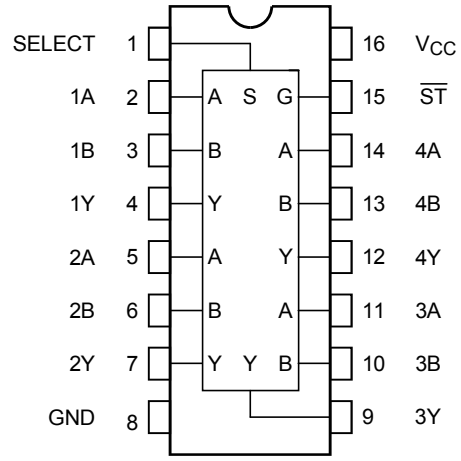
PIN				DESCRIPTION
NO.	NAME	I/O	5-V TOLERANT	
34	RST	I	Yes	Reset Input, active low(2) (4)
35	RXIN1	I	Yes	Biphase signal, input 1, built-in coaxial amplifier
36	VDDRX	–	–	Power supply, 3.3 V (typ.), for RXIN0 and RXIN1.
37	RXIN0	I	Yes	Biphase signal, input 0, built-in coaxial amplifier
38	GNDRX	-	-	Ground,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

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

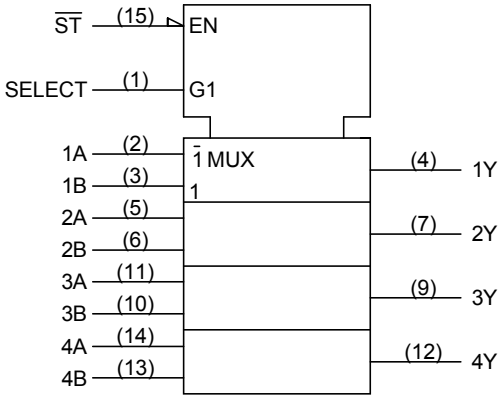
PCM9211PTR BLOCK DIAGRAM



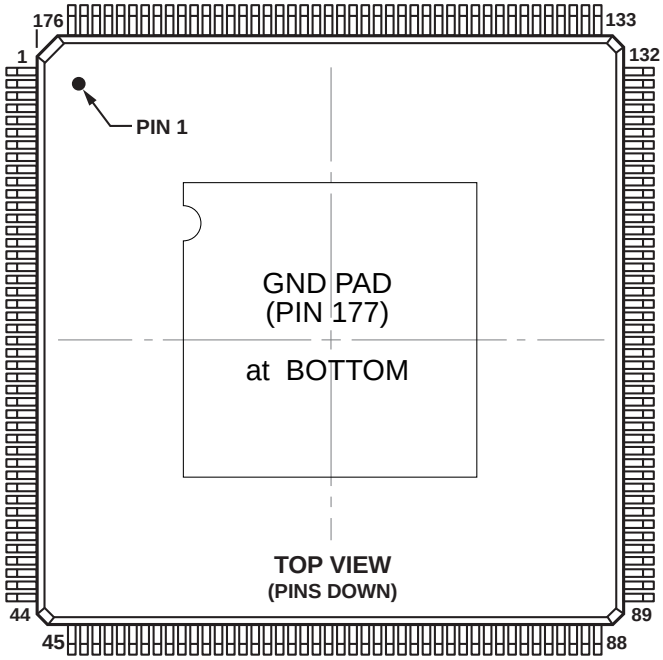
TC74VHC157F (DIGITAL_DIR : IC774-775)



Block diagram



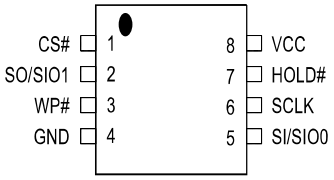
ADSP21487KSWZ-3B (DIGITAL_DSP : IC781)



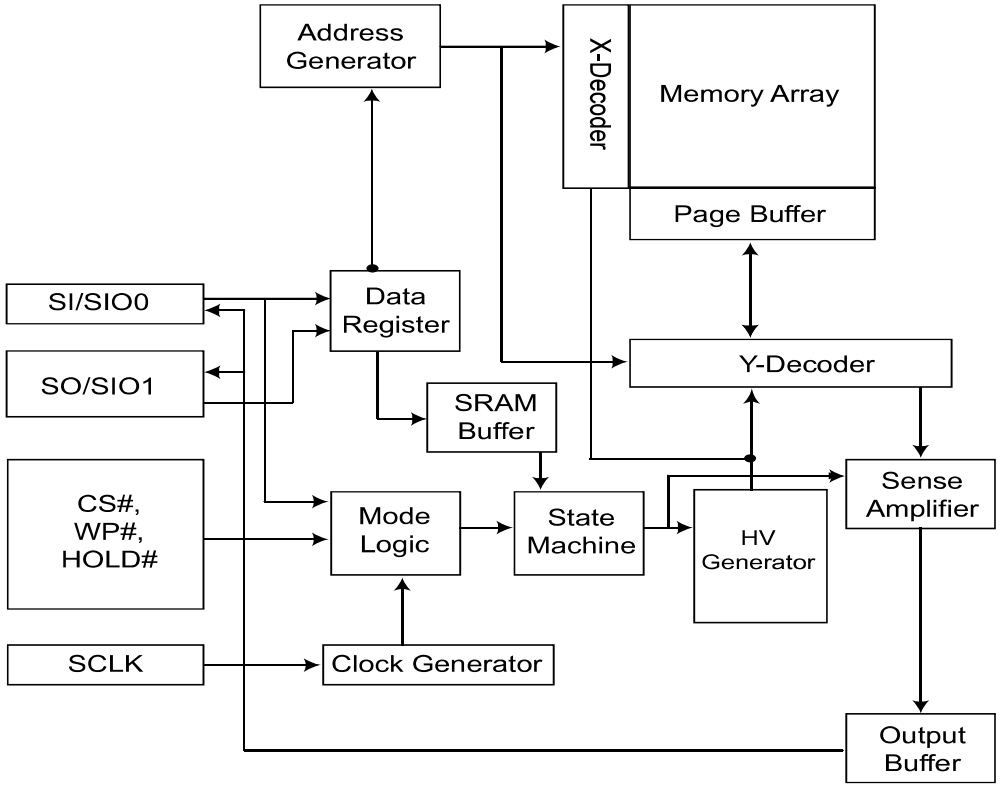
ADSP21487KSWZ-2B Terminal Function

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

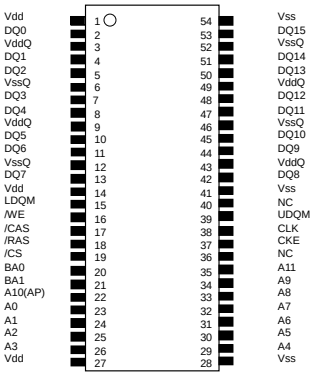
MX25L1606EM2I-12G (DIGITAL_DSP : IC782)



Block diagram

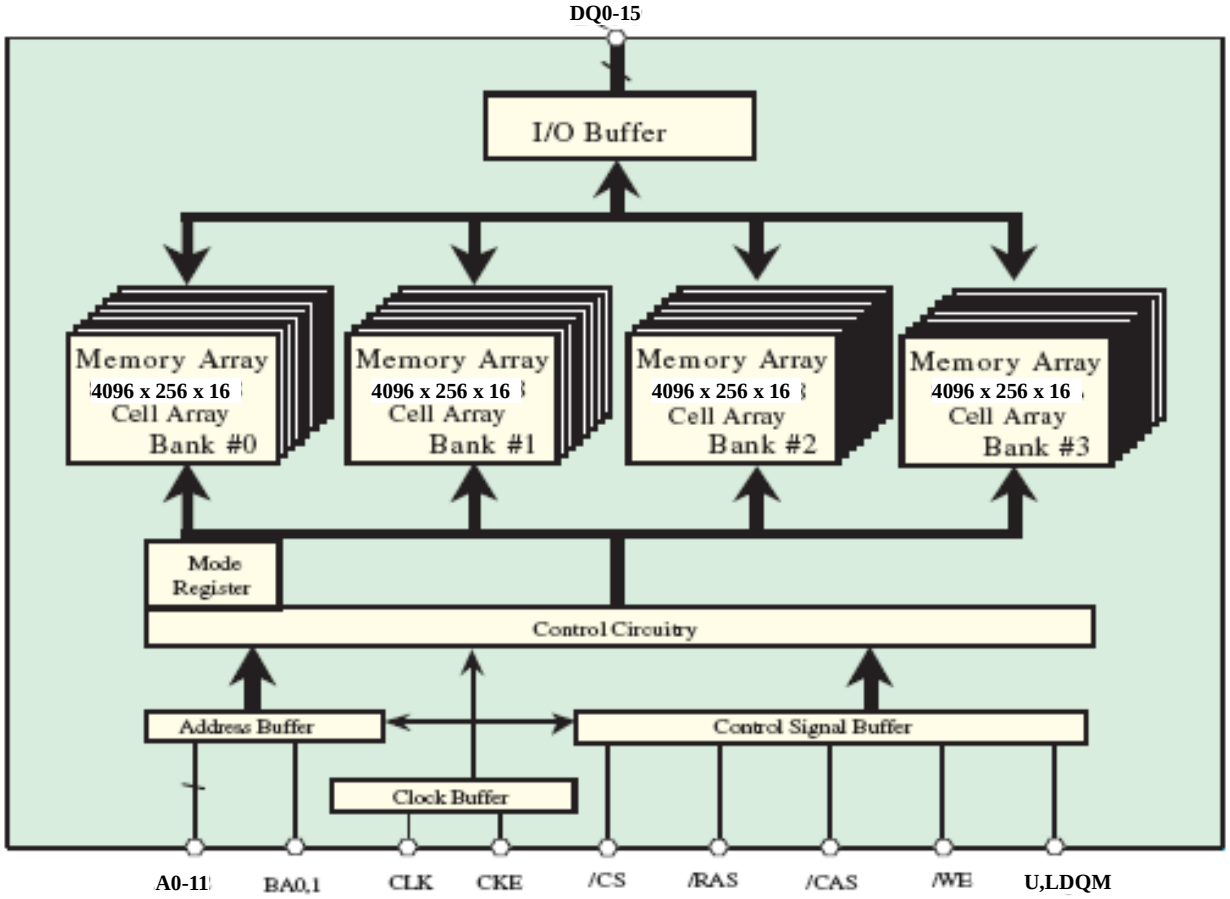


A3V64S40GTP-60 (DIGITAL_DSP : IC783)

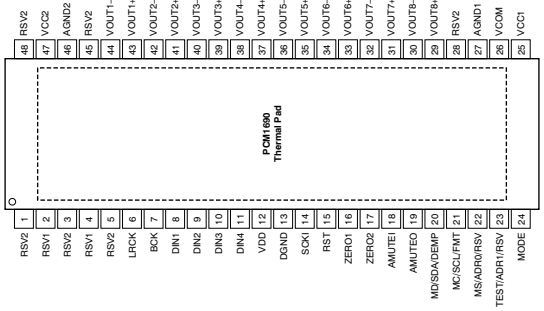


CLK	: Master Clock	U,LDQM	: Output Disable / Write Mask
CKE	: Clock Enable	A0-11	: Address Input
/CS	: Chip Select	BA0,1	: Bank Address
/RAS	: Row Address Strobe	Vdd	: Power Supply
/CAS	: Column Address Strobe	VddQ	: Power Supply for Output
/WE	: Write Enable	Vss	: Ground
DQ0-15	: Data I/O	VssQ	: Ground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

Block diagram



PCM1690DCAR (DIGITAL_MAIN DAC : IC791)

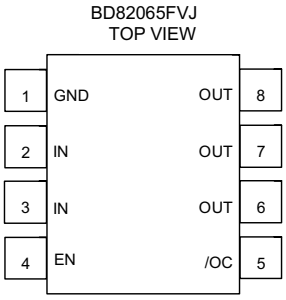


PCM1690 Pin Function

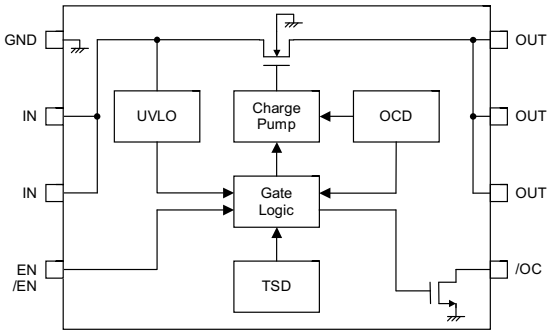
TERMINAL		I/O	PULL-DOWN	5-V TOLERANT	DESCRIPTION
NAME	PIN				
RSV2	1	—	—	—	Reserved, tied to analog ground
RSV1	2	—	—	—	Reserved, left open
RSV2	3	—	—	—	Reserved, tied to analog ground
RSV1	4	—	—	—	Reserved, left open
RSV2	5	—	—	—	Reserved, tied to analog ground
LRCK	6	I	Yes	No	Audio data word clock 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
VOUT1+	43	O	No	No	Positive analog output from DAC1
VOUT1-	44	O	No	No	Negative analog output from DAC1
RSV2	45	—	—	—	Reserved, tied to analog ground
AGND2	46	—	—	—	Analog ground 2
VCC2	47	—	—	—	Analog power supply 2, +5 V
RSV2	48	—	—	—	Reserved, tied to analog ground

(1) Open-drain configuration in out mode.

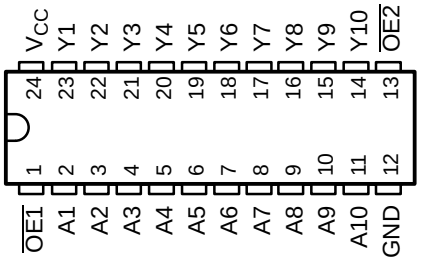
BD82065FVJ-E2 (DIGITAL_NETWORK : IC801)



Block diagram



SN74LVC827APWR (DIGITAL_NETWORK : IC804)

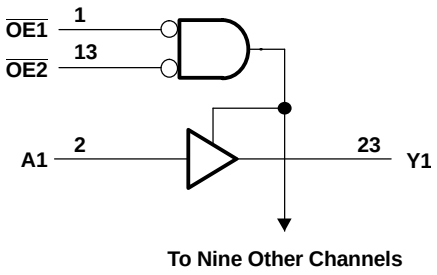


Block diagram

FUNCTION TABLE

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

LOGIC DIAGRAM (POSITIVE LOGIC)



PCM5100PWR (DIGITAL_NETWORK : IC805)

PCM510X (top view)

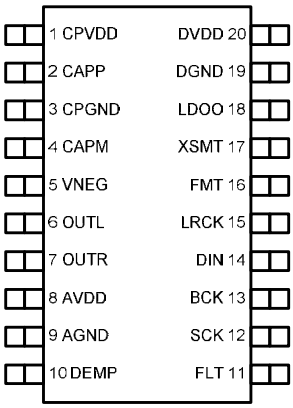
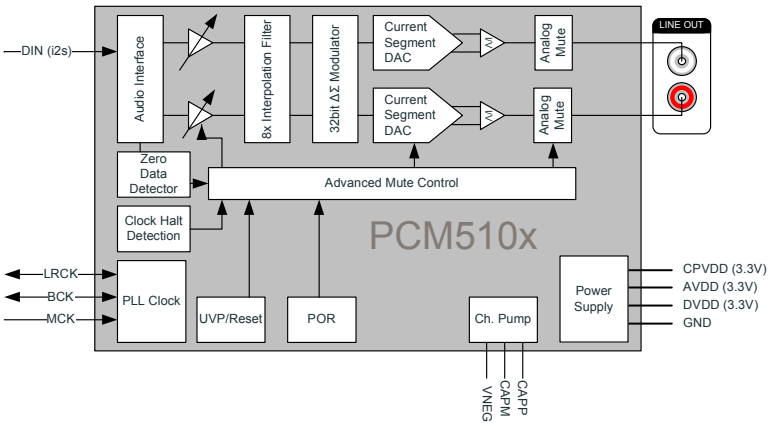


Table 2. TERMINAL FUNCTIONS, PCM510x

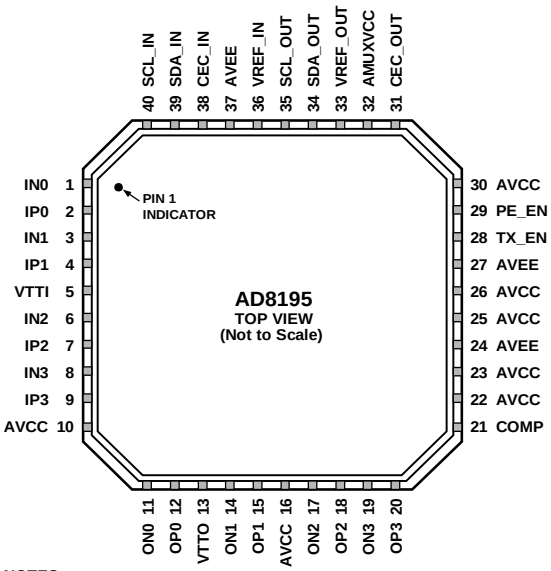
TERMINAL		I/O	DESCRIPTION
NAME	NO.		
CPVDD	1	-	Charge pump power supply, 3.3V
CAPP	2	O	Charge pump flying capacitor terminal for positive rail
CPGND	3	-	Charge pump ground
CAPM	4	O	Charge pump flying capacitor terminal for negative rail
VNEG	5	O	Negative charge pump rail terminal for decoupling, -3.3V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

(1) Failsafe LVCMOS Schmitt trigger input

Block diagram



AD8195 (DIGITAL_F-HDMI : IC811)



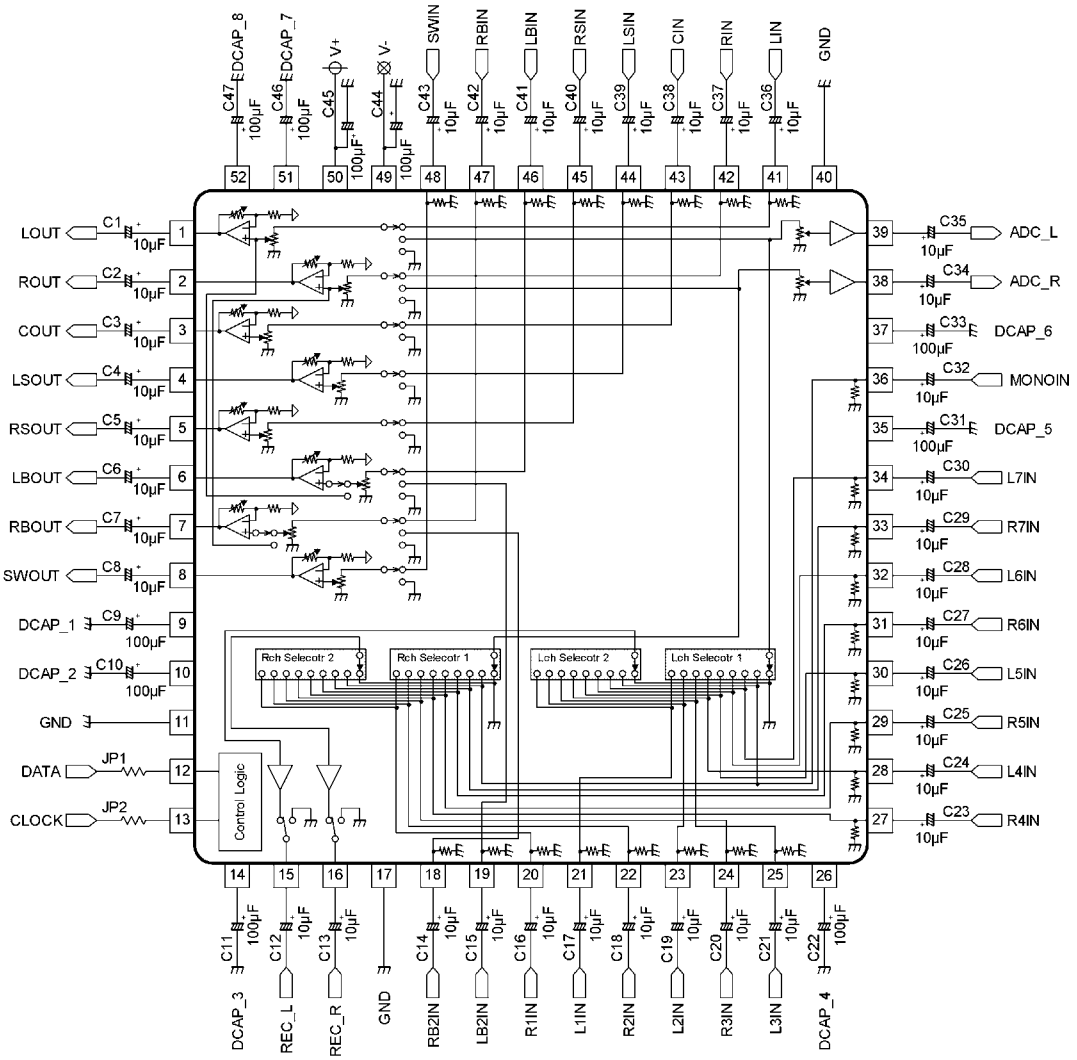
NOTES
1. THE AD8195 LFCSP HAS AN EXPOSED PAD ON THE UNDERSIDE OF THE PACKAGE THAT AIDS IN HEAT DISSIPATION. THE PAD MUST BE ELECTRICALLY CONNECTED TO THE AVEE SUPPLY PLANE IN ORDER TO MEET THERMAL SPECIFICATIONS.

AD8195 Terminal Functions

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

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

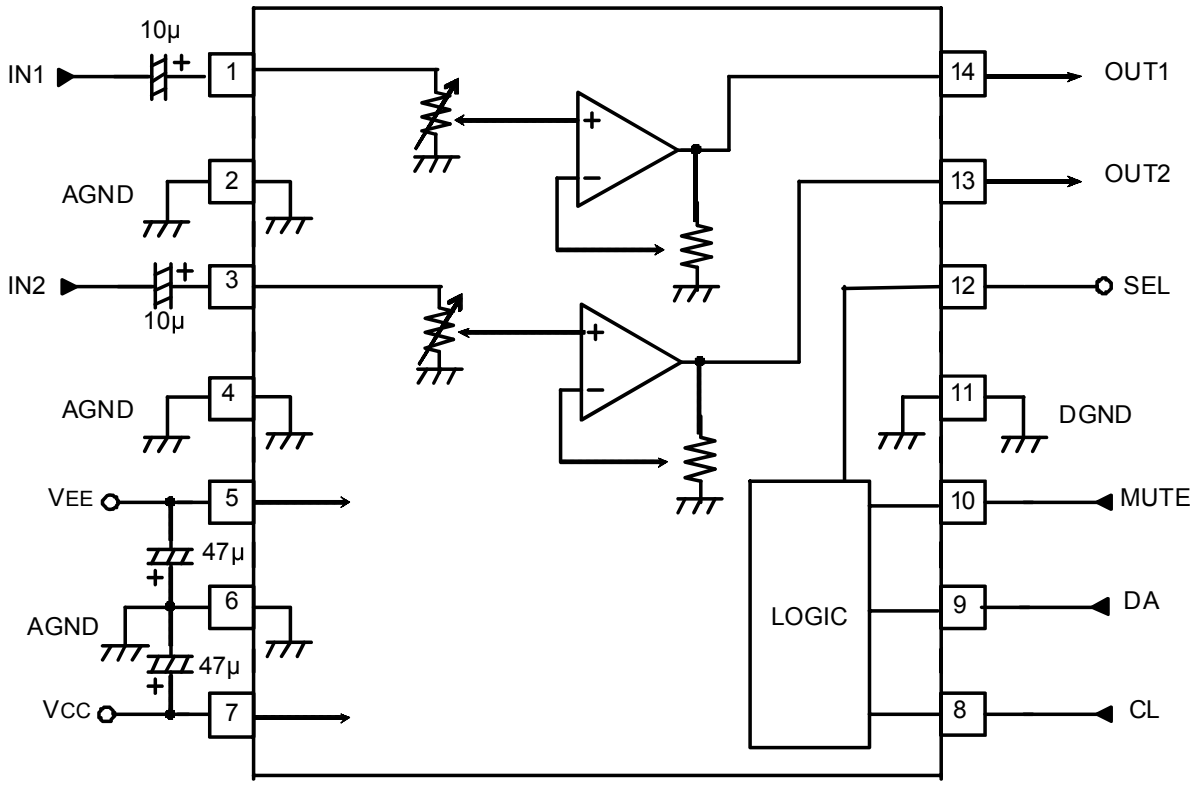
NJU72340AFH3 (DIGITAL_ANALOG : IC821)



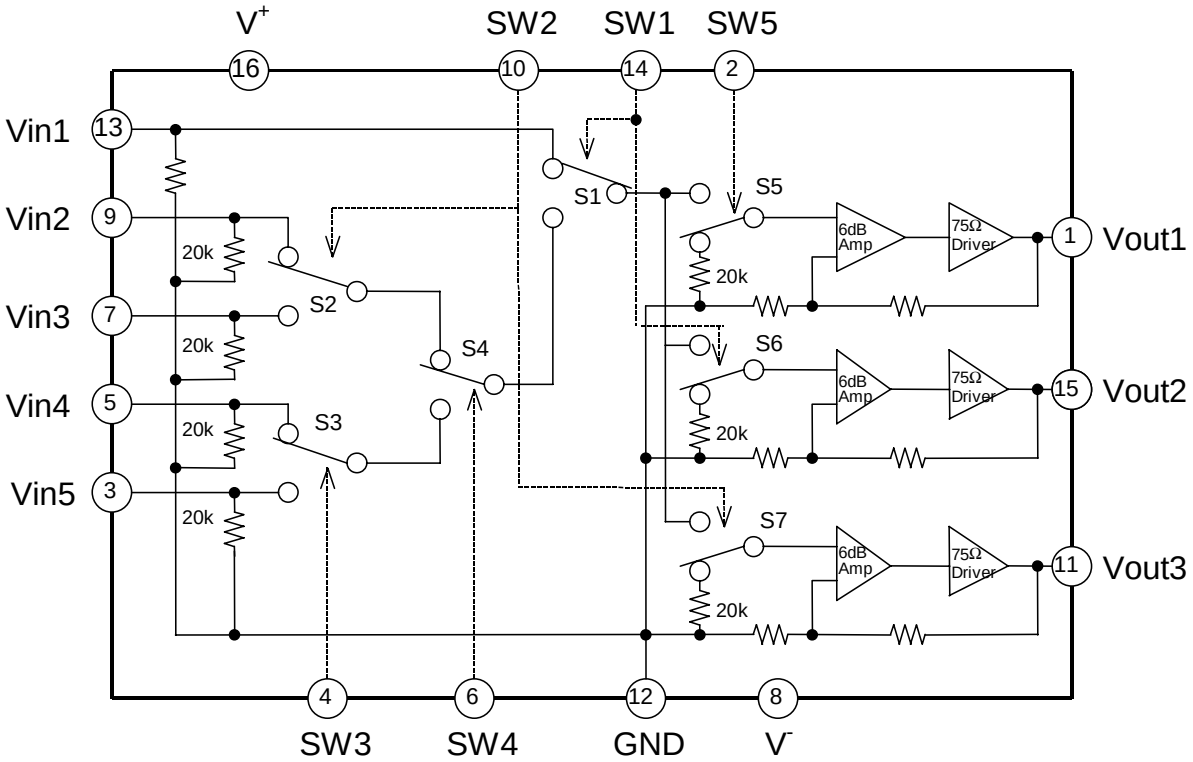
NJU72340A Terminal Functions

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

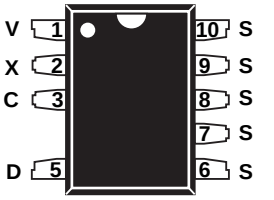
BD3812F (DIGITAL_ANALOG : IC851)



NJM2595MTE1 (DIGITAL_ANALOG : IC881)



TOP258MG (SMPS : IC601)



Block diagram

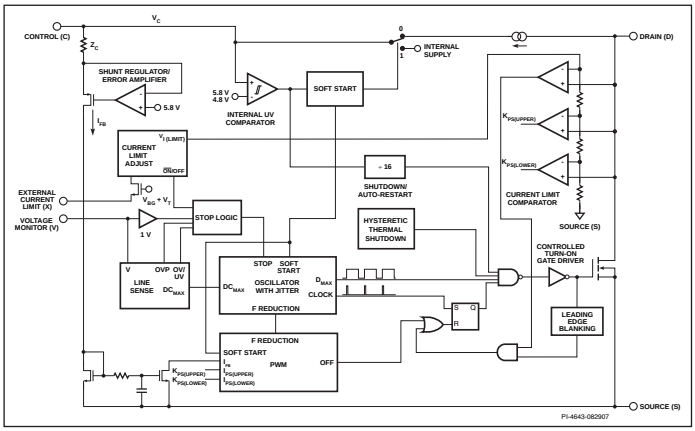


Figure 3b. Functional Block Diagram (M Package).

2. FL DISPLAY

FLD (018BT021GINK) (FRONT : FL101)

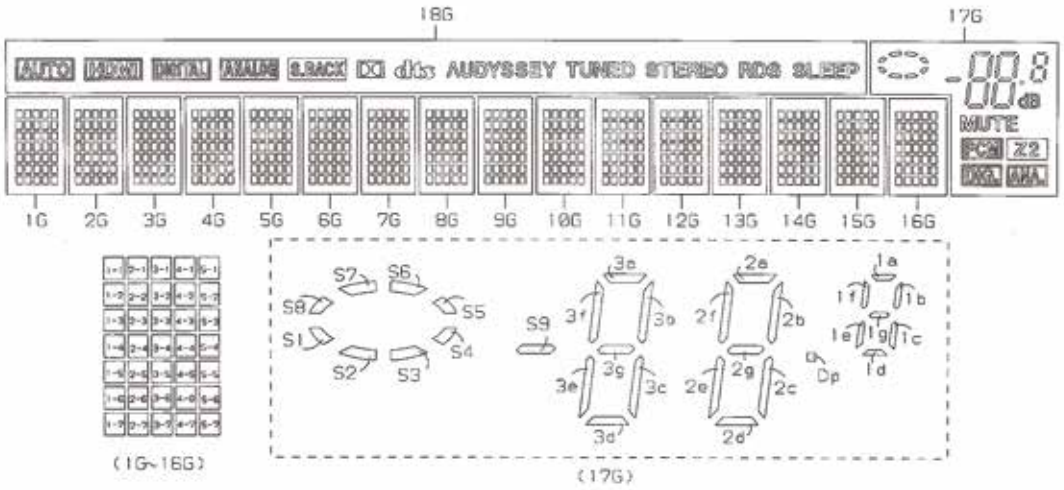
PIN CONNECTION

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

PIN NO.	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	VDD	DC	RESET	CS	CP	DA	TSA	TSB	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	18G	17G	Q17G	Q18G	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) $\overline{CS}$ ------ Chip Select Input pin
13) $\overline{RESET}$ --- Reset Input
14) OSC ----- Pin for self-oscillation
15) Solder composition is Sn-3Ag-0.5Cu.
16) 17G,18G ----- Grid
17) Q17G,Q18G ----- Driver Output Port.
18) Field of vision is a minimum of 21.8° from the lower side.

GRID ASSIGNMENT



ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G	14G	15G	16G	17G (AD3)	18G (AD4)
D0	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	S9	–
D1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	3d	–
D2	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	2d	–
D3	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	3e	–
D4	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	2e	–
D5	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	3c	–
D6	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2c	–
D7	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3g	–
D8	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	2g	–
D9	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	3f	–
D10	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	2f	–
D11	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	3b	–
D12	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	2b	–
D13	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	3a	–
D14	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	2a	–
D15	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	Dp	–
D16	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	dB	–
D17	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	1d	–
D18	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	1e	–
D19	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	1c	–
D20	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1g	–
D21	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	1f	–
D22	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	1b	–
D23	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	1a	AUTO
D24	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	S1	HDMI
D25	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	S2	DIGITAL
D26	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	S3	ANALOG
D27	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	S4	S.BACK
D28	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	S5	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.	–

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 K : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D1001	00D9630328409	DIODE,RECTIFIER,AXIAL		CVD1N4007ST	1		
	D1002	00D9430182609	DIODE,SWITCHING	X1100E3	CVD1SS133MT	1		
	D1003	90M-HD302360R	DIODE,ZENER,1/2W,6.8V		CVDZJ6.8BT	1		
	D1004	00D9430087209	DIODE,ZENER,1/2W,24V		CVDZJ24BT	1		
	D1005	90M-HD302450R	DIODE,ZENER,1/2W,13V		CVDZJ13BT	1		
	D1008-1011	9632090035105	DIODE,RELIABLEESDPROTECTION		CVDCDS3C05HDMI	4		
	D1012	9632631009605	LED,WHITE/RED	X1100E3	CVDPVBWR5A2M	1	*	
	D1012	9431760100905	L.E.D,(GREEN/RED5PI)	E2/E1/E1C/K/S700	CVDBLBJEGJ204L	1		
	D1019,1020	9432090010805	DIODE,CHIP,SWITCHING		CVD1SS355T	2		
	D1401-1403	9432020100805	DIODE,ZENER,1/2W,5.1V		CVDZJ5.1BT	3		
	D1404,1405	9432090010805	DIODE,CHIP,SWITCHING		CVD1SS355T	2		
	Q1001	9432190068205	T.R		CVTKTC1027YT	1		
	Q1002	9432165000205	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q1003,1004	9432145000205	T.R,2SC3052		CVT2SC3052	2		
	Q1005	9632125000305	T.R,ISA1530AC1		CVTISA1530AC1	1		
	Q1006	9432165000205	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q1007,1008	9432155000205	T.R,RT1P141C(10K-10K)		CVTRT1P141C	2		
	Q1009	9432165000205	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q1011	9432155000205	T.R,RT1P141C(10K-10K)		CVTRT1P141C	1		
	Q1012	9432165000205	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	RESISTOR GROUP							
	R1001	nsp	RES,CARBON(1/5W,1.8ohm,J)		CRD20TJ1R8T	1		
	R1004	nsp	RES,CARBON(1/5W,1.8ohm,J)		CRD20TJ1R8T	1		
	R1005,1006	nsp	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T	2		
	R1007	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R1008,1009	nsp	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T	2		
	R1010	nsp	RES,CHIP(1608/5%/39Kohm)		CRJ10DJ393T	1		
	R1011	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R1012-1015	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	4		
	R1016,1017	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R1018,1019	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R1020	nsp	RES,CHIP(1608/5%/3.3Kohm)		CRJ10DJ332T	1		
	R1021,1022	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	2		
	R1023	nsp	RES,CHIP(1608/5%/47Kohm)		CRJ10DJ473T	1		
	R1025,1026	nsp	RES,CHIP(1608/5%/39Kohm)		CRJ10DJ393T	2		
	R1027	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R1030	nsp	RES,CARBON(1/5W,10ohm,J)		CRD20TJ100T	1		
	R1040	nsp	RES,CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
	R1041,1042	nsp	RES,CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	2		
	R1043	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R1053	nsp	RES,CHIP(1608/5%/10ohm)		CRJ10DJ100T	1		
	R1057	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R1058,1059	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	2		
	R1060,1061	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R1067	nsp	RES,CARBON(1/5W,10ohm,J)		CRD20TJ100T	1		
	R1071	nsp	RES,CHIP(1608/5%/330ohm)	S700	CRJ10DJ331T	1		
	R1072	nsp	RES,CHIP(1608/5%/220ohm)	S700	CRJ10DJ221T	1		
	R1073	nsp	RES,CHIP(1608/5%/150ohm)	X1100	CRJ10DJ151T	1		
	R1073	nsp	RES,CHIP(1608/5%/180ohm)	S700	CRJ10DJ181T	1		
	R1074	nsp	RES,CHIP(1608/5%/100ohm)	X1100	CRJ10DJ101T	1		
	R1074	nsp	RES,CHIP(1608/5%/150ohm)	S700	CRJ10DJ151T	1		
	R1075	nsp	RES,CHIP(1608/5%/0ohm)	X1100	CRJ10DJ0R0T	1		
	R1075	nsp	RES,CHIP(1608/5%/100ohm)	S700	CRJ10DJ101T	1		
	R1076	nsp	RES,CHIP(1608/5%/330ohm)	S700	CRJ10DJ331T	1		
	R1077	nsp	RES,CHIP(1608/5%/150ohm)	X1100	CRJ10DJ151T	1		
	R1077	nsp	RES,CHIP(1608/5%/220ohm)	S700	CRJ10DJ221T	1		
	R1078	nsp	RES,CHIP(1608/5%/100ohm)	X1100	CRJ10DJ101T	1		
	R1078	nsp	RES,CHIP(1608/5%/180ohm)	S700	CRJ10DJ181T	1		
	R1079	nsp	RES,CHIP(1608/5%/0ohm)	X1100	CRJ10DJ0R0T	1		
	R1079	nsp	RES,CHIP(1608/5%/150ohm)	S700	CRJ10DJ151T	1		
	R1080	nsp	RES,CHIP(1608/5%/0ohm)	X1100	CRJ10DJ0R0T	1		
	R1080	nsp	RES,CHIP(1608/5%/100ohm)	S700	CRJ10DJ101T	1		
	R1081	nsp	RES,CHIP(1608/5%/330ohm)	S700	CRJ10DJ331T	1		
	R1082	nsp	RES,CHIP(1608/5%/180ohm)	X1100	CRJ10DJ181T	1		
	R1082	nsp	RES,CHIP(1608/5%/220ohm)	S700	CRJ10DJ221T	1		
	R1083	nsp	RES,CHIP(1608/5%/150ohm)	X1100	CRJ10DJ151T	1		
	R1083	nsp	RES,CHIP(1608/5%/180ohm)	S700	CRJ10DJ181T	1		
	R1084	nsp	RES,CHIP(1608/5%/100ohm)	X1100	CRJ10DJ101T	1		
	R1084	nsp	RES,CHIP(1608/5%/150ohm)	S700	CRJ10DJ151T	1		
	R1085	nsp	RES,CHIP(1608/5%/0ohm)	X1100	CRJ10DJ0R0T	1		
	R1085	nsp	RES,CHIP(1608/5%/100ohm)	S700	CRJ10DJ101T	1		
	R1401	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R1402-1404	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	3		
	R1405	nsp	RES,CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
	R1406	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R1407	nsp	RES,CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R1408	nsp	RES,CHIP(1608/5%/18Kohm)		CRJ10DJ183T	1		
	R1409	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R1410	nsp	RES,CHIP(1608/5%/47Kohm)		CRJ10DJ473T	1		
	R1411	nsp	RES,CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
	R1413,1414	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R1415,1416	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	2		
	R1418,1419	nsp	RES,CHIP(1608/5%/390ohm)	X1100E3	CRJ10DJ391T	2		
	R1420	nsp	RES,CHIP(1608/5%/47Kohm)	X1100E3	CRJ10DJ473T	1		
	CAPACIITORS GROUP							
	C1002	nsp	CAP,MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C1003	nsp	CAP,ELECT(50V/10uF)-S		CCEA1HKS100T	1		
	C1004	nsp	CAP,ELECT(50V/100uF)		CCEA1HH101T	1		
	C1005	nsp	CAP,ELECT(63V/220uF)		CCEA1JH221E	1		
	C1006	nsp	CAP,ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C1007	nsp	CAP,METAL-FILM(100V/0.047uF)		CCME2A473JXT	1		
	C1009	nsp	CAP,CHIP(2012,50V/0.1uF,X7R)_SAMSUNG		CCUC1H104KCS	1		
	C1010	nsp	CAP,ELECT(16V/10uF)-S		CCEA1CKS100T	1		
	C1011	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1013,1014	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG		CCUS1H101JAS	2		
	C1015	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	1		
	C1016	nsp	CAP,CHIP(1608,50V/1000pF,X7R)_SAMSUNG		CCUS1H102KCS	1		
	C1017	nsp	CAP,METAL-FILM(100V/0.047uF)		CCME2A473JXT	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C1019	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C1020	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	1		
	C1038	nsp	CAP,ELECT(16V/47uF)-S		CCEA1CKS470T	1		
	C1039	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG		CCUS1H101JAS	1		
	C1050	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1052	nsp	CAP,ELECT(10V/220uF)-S		CCEA1AKS221T	1		
	C1053-1055	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	3		
	C1065	nsp	CAP,ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C1066	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1067	nsp	CAP,ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C1068	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1071,1072	nsp	CAP,CHIP(1608,50V/680pF,C0G)_SAMSUNG		CCUS1H681JAS	2		
	C1073	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1076,1077	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	2		
	C1081	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1401	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1402	nsp	CAP,ELECT(50V/1uF)-S		CCEA1HKS1R0T	1		
	C1403	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG		CCUS1H101JAS	1		
	C1405	nsp	CAP,ELECT(50V/10uF)-S		CCEA1HKS100T	1		
	C1406	nsp	CAP,CHIP(1608,50V/0.047uF,X7R)_SAMSUNG		CCUS1H473KCS	1		
	C1407	nsp	CAP,ELECT(16V/100uF)-S		CCEA1CKS101T	1		
	C1408	nsp	CAP,CHIP(1608,50V/82pF,C0G)_SAMSUNG		CCUS1H820JAS	1		
	C1410,1411	nsp	CAP,ELECT(50V/1uF)-S		CCEA1HKS1R0T	2		
	C1414	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1415	nsp	CAP,CHIP(1608,50V/1000pF,X7R)_SAMSUNG		CCUS1H102KCS	1		
	C1417	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1424	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C1425,1426	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	2		
	OTHER PARTS GROUP							
	BK101,102	nsp	BRACKET,FIP		CMD1A572-V1	2		
	BK103	nsp	BRACKET,PCB		CMD1A629	1		
	BN101	nsp	WIREASS'YB'D-B'DIN(9P,2MM,80MM,#28)		CWB1A009080CC	1		
	BN104	nsp	WIREASS'Y(5P,2.0MM,350MM,Shield)_USB		CWB1C205350LC00	1		
	BN12A	nsp	WIREASS'YB'DtoB'D(CKM)(5P,2MM,80MM,#26)		CWB1B005080CC	1		
	BN12B1	nsp	WAFER,FFC1.25mm,ANGLE		CJP27GB286ZN	1		
	BN131	nsp	WIREASS'YLocking(YH)(3P,2MM,50MM,#28)		CWB1A003050HC	1		
	CN102	nsp	WAFER/ANGLE/2.5mm/07P		CJP07GB03ZY	1		
	CN103	nsp	LOCK-WAFER/ANGLE/2MMPITCH/3PIN		CJP03GJ288ZY	1		
	CN104	nsp	LOCK-WAFER/STRAIGHT/2MMPITCH/3PIN		CJP03GI288ZY	1		
!	F1001	9436520006205	FUSE(372Series/100mA/TR5)		CBA2D0100A3EYT	1		
	FL101	9431721001505	V.F.D(FUTABA,18-BT-02GINK)		CFL18BT021GINK	1		
	IC101	9432321003805	I.C,DUALOPAMP(SOP-8P)		CVINJM8080G	1		
	J1056/1057	nsp	WIRE,COPPER(D0.6)	S700	C3A206	2		
	J1059	nsp	WIRE,COPPER(D0.6)	S700	C3A206	1		
	J1061	nsp	WIRE,COPPER(D0.6)	S700	C3A206	1		
	J1064	nsp	WIRE,COPPER(D0.6)	S700	C3A206	1		
	JK101	9436431015905	JACK,USBSTRAIGHT(BLACK1.5A)		CJJ9X010Z	1		
	JK104	90M-YT004500R	JACK,PHONES(6.35mm,SILVER)		CJJ2E026Z	1		
	JK105	9436431029305	JACK,STEREO,3.5mmMINI,BLACKMOLD		CJJ2D029Z	1	*	
	L1001	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L1003	nsp	FERRITECHIPBEAD(4516/60R)		CLZ9Z014V	1		
	L1004,1005	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	L1010-1013	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	4		
	L1401-1404	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	4		
	LD101	9632620104605	L.E.D(Infraredlightemittingdiode)		CVDSIR341ST3FT0	1		
	LUG11	nsp	WIREASS'Y		CWE8102100RV	1		
	LUG13	nsp	WIREASS'Y		CWE8102180RV	1		
	RC101	9432621001405	SENSOR,REMOTE(37.9KHz)		CRVHM238RT12	1		
	SW101	00D9430004402	SW,TACT		CST1A012ZT	1		
	SW102/103	00D9430004402	SW,TACT	S700	CST1A012ZT	2		
	SW104-106	00D9430004402	SW,TACT		CST1A012ZT	3		
	SW107/108	00D9430004402	SW,TACT	S700	CST1A012ZT	2		
	SW109-111	00D9430004402	SW,TACT		CST1A012ZT	3		
	SW112-113	00D9430004402	SW,TACT	S700	CST1A012ZT	3		
	SW115-118	00D9430004402	SW,TACT		CST1A012ZT	4		
	SW119	00D9430004402	SW,TACT	S700	CST1A012ZT	1		
	VR101	9436710103305	ENCODER(16MM,24PULSES),W/CLICK		CSR2A055Z	1		
	VR102	9436711010000	ENCODER(16MM,12PULSES)		CSR2A060Z	1	*	

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 K : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D5106	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D5206	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D5306	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D5406	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D5506	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D5606	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D5706	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D5801-5806	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	6		
	D5807	90M-HD302380R	DIODE,ZENER,1/2W,3.6V		CVDZJ3.6BT	1		
	D5808-5814	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	7		
	D5815	90M-HD302380R	DIODE,ZENER,1/2W,3.6V		CVDZJ3.6BT	1		
	D5816	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D5817	90M-HD302360R	DIODE,ZENER,1/2W,6.8V		CVDZJ6.8BT	1		
	D5818	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D5819	90M-HE200390R	DIODE,BRIDGE		HVDGBJ1006	1		
	Q5105	9432165005105	TR,POWER(MICA43TYPE)		CVT2SD2390P43M	1	*	
	Q5106	9632155005000	TR,POWER(MICA43TYPE)		CVT2SB1560P43M	1	*	
	Q5107	9432125000205	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q5108	9432145000405	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551	1		
	Q5205	9432165005105	TR,POWER(MICA43TYPE)		CVT2SD2390P43M	1	*	
	Q5206	9632155005000	TR,POWER(MICA43TYPE)		CVT2SB1560P43M	1	*	
	Q5207	9432125000205	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q5208	9432145000405	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551	1		
	Q5305	9432165005105	TR,POWER(MICA43TYPE)		CVT2SD2390P43M	1	*	
	Q5306	9632155005000	TR,POWER(MICA43TYPE)		CVT2SB1560P43M	1	*	
	Q5307	9432125000205	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q5308	9432145000405	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551	1		
	Q5405	9432165005105	TR,POWER(MICA43TYPE)		CVT2SD2390P43M	1	*	
	Q5406	9632155005000	TR,POWER(MICA43TYPE)		CVT2SB1560P43M	1	*	
	Q5407	9432125000205	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q5408	9432145000405	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551	1		
	Q5505	9432165005105	TR,POWER(MICA43TYPE)		CVT2SD2390P43M	1	*	
	Q5506	9632155005000	TR,POWER(MICA43TYPE)		CVT2SB1560P43M	1	*	
	Q5507	9432125000205	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q5508	9432145000405	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551	1		
	Q5605	9432165005105	TR,POWER(MICA43TYPE)		CVT2SD2390P43M	1	*	
	Q5606	9632155005000	TR,POWER(MICA43TYPE)		CVT2SB1560P43M	1	*	
	Q5607	9432125000205	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q5608	9432145000405	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551	1		
	Q5705	9432165005105	TR,POWER(MICA43TYPE)		CVT2SD2390P43M	1	*	
	Q5706	9632155005000	TR,POWER(MICA43TYPE)		CVT2SB1560P43M	1	*	
	Q5707	9432125000205	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	Q5708	9432145000405	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551	1		
	Q5801-5806	9432135001605	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C	6		
	Q5807	9432115001505	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA	1		
	Q5808	9432145000205	T.R,2SC3052		CVT2SC3052	1		
	Q5809	9632125000305	T.R,ISA1530AC1		CVTISA1530AC1	1		
	Q5810,5811	9432145000205	T.R,2SC3052		CVT2SC3052	2		
	Q5812	9632125000305	T.R,ISA1530AC1		CVTISA1530AC1	1		
	Q5813	9432145000205	T.R,2SC3052		CVT2SC3052	1		
	Q5814	9432125000205	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401	1		
	IC501	9432321003805	I.C,DUALOPAMP(SOP-8P)		CVINJM8080G	1		
	RESISTOR GROUP							
	R5113	nsp	RES,CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5114	nsp	RES,CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5115,5116	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5117,5118	nsp	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5119-5122	9431245000505	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5123	nsp	RES,CARBON(1/5W,820Kohm,J)		CRD20TJ824T	1		
	R5124	nsp	RES,CARBON(1/5W,180Kohm,J)		CRD20TJ184T	1		
	R5125	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5126	2523100065065	PTCTHEMISTORS,CHIP(115'C)		CRTPRF18BB471QB	1		
	R5127	nsp	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5129	nsp	RES,CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5130,5131	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5132	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5133	nsp	RES,M-OXIDEFILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5213	nsp	RES,CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5214	nsp	RES,CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5215,5216	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5217,5218	nsp	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5219-5222	9431245000505	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5223	nsp	RES,CARBON(1/5W,820Kohm,J)		CRD20TJ824T	1		
	R5224	nsp	RES,CARBON(1/5W,180Kohm,J)		CRD20TJ184T	1		
	R5225	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5226	2523100065065	PTCTHEMISTORS,CHIP(115'C)		CRTPRF18BB471QB	1		
	R5227	nsp	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5229	nsp	RES,CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5230,5231	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5232	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5233	nsp	RES,M-OXIDEFILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5313	nsp	RES,CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5314	nsp	RES,CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5315,5316	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5317,5318	nsp	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5319-5322	9431245000505	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5323	nsp	RES,CARBON(1/5W,820Kohm,J)		CRD20TJ824T	1		
	R5324	nsp	RES,CARBON(1/5W,180Kohm,J)		CRD20TJ184T	1		
	R5325	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5326	2523100065065	PTCTHEMISTORS,CHIP(115'C)		CRTPRF18BB471QB	1		
	R5327	nsp	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5329	nsp	RES,CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5330,5331	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5332	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5333	nsp	RES,M-OXIDEFILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5413	nsp	RES,CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5414	nsp	RES,CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5415,5416	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R5417,5418	nsp	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5419-5422	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5423	nsp	RES,CARBON(1/5W,820Kohm,J)		CRD20TJ824T	1		
	R5424	nsp	RES,CARBON(1/5W,180Kohm,J)		CRD20TJ184T	1		
	R5425	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5426	2523100065O6S	PTCTHEMISTORS,CHIP(115'C)		CRTPRF18BB471QB	1		
	R5427	nsp	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5429	nsp	RES,CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5430,5431	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5432	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5433	nsp	RES,M-OXIDEFILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5513	nsp	RES,CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5514	nsp	RES,CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5515,5516	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5517,5518	nsp	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5519-5522	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5523	nsp	RES,CARBON(1/5W,820Kohm,J)		CRD20TJ824T	1		
	R5524	nsp	RES,CARBON(1/5W,180Kohm,J)		CRD20TJ184T	1		
	R5525	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5526	2523100065O6S	PTCTHEMISTORS,CHIP(115'C)		CRTPRF18BB471QB	1		
	R5527	nsp	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5529	nsp	RES,CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5530,5531	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5532	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5533	nsp	RES,M-OXIDEFILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5613	nsp	RES,CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5614	nsp	RES,CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5615,5616	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5617,5618	nsp	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5619-5622	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5623	nsp	RES,CARBON(1/5W,820Kohm,J)		CRD20TJ824T	1		
	R5624	nsp	RES,CARBON(1/5W,180Kohm,J)		CRD20TJ184T	1		
	R5625	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5626	2523100065O6S	PTCTHEMISTORS,CHIP(115'C)		CRTPRF18BB471QB	1		
	R5627	nsp	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5629	nsp	RES,CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5630,5631	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5632	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5633	nsp	RES,M-OXIDEFILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5713	nsp	RES,CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5714	nsp	RES,CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5715,5716	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5717,5718	nsp	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5719-5722	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5723	nsp	RES,CARBON(1/5W,820Kohm,J)		CRD20TJ824T	1		
	R5724	nsp	RES,CARBON(1/5W,180Kohm,J)		CRD20TJ184T	1		
	R5725	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5726	2523100065O6S	PTCTHEMISTORS,CHIP(115'C)		CRTPRF18BB471QB	1		
	R5727	nsp	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5729	nsp	RES,CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5730,5731	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5732	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5733	nsp	RES,M-OXIDEFILM(2W/10ohm)		CRG2SANJ100RT	1		
	R5801,5802	nsp	RES,M-OXIDEFILM(2W/470ohm)		CRG2SANJ471RT	2		
	R5803	nsp	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5804	nsp	RES,CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5805	nsp	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5806	nsp	RES,CARBON(1/5W,20Kohm,J)		CRD20TJ203T	1		
	R5807,5808	nsp	RES,CARBON(1/5W,2.2Kohm,J)		CRD20TJ222T	2		
	R5809	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R5810	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R5811	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R5812-5818	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	7		
	R5819	nsp	RES,M-OXIDEFILM(1W/100ohm)		CRG1SANJ101RT	1		
	R5820	nsp	RES,M-OXIDEFILM(1W/33ohm)		CRG1SANJ330RT	1		
	R5821	nsp	RES,M-OXIDEFILM(1W/2.2Kohm)		CRG1SANJ222RT	1		
	R5823,5824	nsp	RES,M-OXIDEFILM(1W/2.2Kohm)		CRG1SANJ222RT	2		
	R5826,5827	943124500350M	RES,CEMENT(0.02ohm/3W)		CRF3EJR02	2		
	R5830	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R5831	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R5832	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R5833	nsp	RES,CHIP(1608/5%/22Kohm)		CRJ10DJ223T	1		
	R5834	nsp	RES,CHIP(1608/5%/3.3Kohm)		CRJ10DJ332T	1		
	R5835	nsp	RES,CHIP(1608/5%/330Kohm)		CRJ10DJ334T	1		
	R5836	nsp	RES,CHIP(1608/5%/33Kohm)		CRJ10DJ333T	1		
	R5837	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R5838	nsp	RES,CHIP(1608/5%/22Kohm)		CRJ10DJ223T	1		
	R5839,5840	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R5841	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5842	nsp	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	CAPACIITORS GROUP							
	C5107	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	1		
	C5108	13405014940AS	CAP,ELECT(63V/100uF)		CCEA1JH101T	1		
	C5109	nsp	CAP,MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5110	nsp	CAP,MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5111	nsp	CAP,MYLAR(50V/0.018pF/J)		HCQI1H183JZT	1		
	C5113	nsp	CAP,MYLAR(50V/1500pF/J)		HCQI1H152JZT	1		
	C5120	nsp	CAP,MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5207	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	1		
	C5208	13405014940AS	CAP,ELECT(63V/100uF)		CCEA1JH101T	1		
	C5209	nsp	CAP,MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5211	nsp	CAP,MYLAR(50V/0.018pF/J)		HCQI1H183JZT	1		
	C5213	nsp	CAP,MYLAR(50V/1500pF/J)		HCQI1H152JZT	1		
	C5307	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	1		
	C5308	13405014940AS	CAP,ELECT(63V/100uF)		CCEA1JH101T	1		
	C5309	nsp	CAP,MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5310	nsp	CAP,MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5311	nsp	CAP,MYLAR(50V/0.018pF/J)		HCQI1H183JZT	1		
	C5313	nsp	CAP,MYLAR(50V/1500pF/J)		HCQI1H152JZT	1		
	C5407	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	1		
	C5408	13405014940AS	CAP,ELECT(63V/100uF)		CCEA1JH101T	1		
	C5409	nsp	CAP,MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5410	nsp	CAP,MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5411	nsp	CAP,MYLAR(50V/0.018pF/J)		HCQI1H183JZT	1		
	C5413	nsp	CAP,MYLAR(50V/1500pF/J)		HCQI1H152JZT	1		
	C5507	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C5508	13405014940AS	CAP,ELECT(63V/100uF)		CCEA1JH101T	1		
	C5509	nsp	CAP,MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5510	nsp	CAP,MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5511	nsp	CAP,MYLAR(50V/0.018pF/J)		HCQI1H183JZT	1		
	C5513	nsp	CAP,MYLAR(50V/1500pF/J)		HCQI1H152JZT	1		
	C5607	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	1		
	C5608	13405014940AS	CAP,ELECT(63V/100uF)		CCEA1JH101T	1		
	C5609	nsp	CAP,MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5610	nsp	CAP,MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5611	nsp	CAP,MYLAR(50V/0.018pF/J)		HCQI1H183JZT	1		
	C5613	nsp	CAP,MYLAR(50V/1500pF/J)		HCQI1H152JZT	1		
	C5707	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	1		
	C5708	13405014940AS	CAP,ELECT(63V/100uF)		CCEA1JH101T	1		
	C5709	nsp	CAP,MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5710	nsp	CAP,MYLAR(50V/0.047uF/J)		HCQI1H473JZT	1		
	C5711	nsp	CAP,MYLAR(50V/0.018pF/J)		HCQI1H183JZT	1		
	C5713	nsp	CAP,MYLAR(50V/1500pF/J)		HCQI1H152JZT	1		
	C5801	nsp	CAP,MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5802	nsp	CAP,ELECT(6.3V/470uF)		CCEA0JH471T	1		
	C5803	nsp	CAP,MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5804	nsp	CAP,ELECT(6.3V/470uF)		CCEA0JH471T	1		
	C5805	nsp	CAP,ELECT(16V/47uF)		CCEA1CH470T	1		
	C5806	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC	1		
	C5807	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C5808	943134010480S	CAP,ELECT(100V/100uF)		CCEA2AH101E	1		
	C5809	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C5810,5811	943134503010S	CAP,ELECT(35X45)WITHOUTPLATEONTHETOP		CCET67VPKPO103N	2	*	
	C5812,5813	90M-OF100490R	CAP,METALPEFILM(250V/0.1uF)		KCME2E104JP04T	2		
	C5816	nsp	CAP,MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
	C5817,5818	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C5819	nsp	CAP,ELECT(16V/100uF)		CCEA1CH101T	1		
	C5820	nsp	CAP,ELECT(100V/1uF),85'CBlack		CCEA2AH1R0T	1		
	C5821	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG		CCUS1H101JAS	1		
	C5823	nsp	CAP,CHIP(1608,50V/10pF,C0G)_SAMSUNG		CCUS1H100JAS	1		
	C5825,5826	nsp	CAP,ELECT(100V/1uF),85'CBlack		CCEA2AH1R0T	2		
	C5827	nsp	CAP,MYLAR(50V/0.01uF/J)		HCQI1H103JZT	1		
	OTHER PARTS GROUP							
	BK505	nsp	BRACKET,PCB		CMD1A569-V1	1		
	BK506	nsp	BRACKET,PCB		CMD1A629	1		
	BN501	nsp	WIREASS'YLocking(YH)(9P,2MM,150MM,#26)		CWB1B009150HC	1		
	BN502	nsp	WIREASS'YLocking(YH)(8P,2MM,150MM,#26)		CWB1B008150HC	1		
	BN503	nsp	WIREASS'YLocking(YH)(3P,2MM,200MM,#26)		CWB4B003200HC	1		
	CN502	nsp	WAFER,7P(DIP,3.96PITCH)		CJP07GA90ZY	1		
	CN508	nsp	PINHEADER(09P,1.25mm,STRAIGHT,B-TO-B)		CJP09GI281Z	1		
	CN510	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN51B	nsp	PINHEADER(07P,1.25mm,STRAIGHT,B-TO-B)		CJP07GI281Z	1		
	CN520	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN52B	nsp	PINHEADER(07P,1.25mm,STRAIGHT,B-TO-B)		CJP07GI281Z	1		
	CN530	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN53B	nsp	PINHEADER(07P,1.25mm,STRAIGHT,B-TO-B)		CJP07GI281Z	1		
	CN540	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN54B	nsp	PINHEADER(07P,1.25mm,STRAIGHT,B-TO-B)		CJP07GI281Z	1		
	CN550	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN55B	nsp	PINHEADER(07P,1.25mm,STRAIGHT,B-TO-B)		CJP07GI281Z	1		
	CN560	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN56B	nsp	PINHEADER(07P,1.25mm,STRAIGHT,B-TO-B)		CJP07GI281Z	1		
	CN570	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
	CN57B	nsp	PINHEADER(07P,1.25mm,STRAIGHT,B-TO-B)		CJP07GI281Z	1		
	ET502	nsp	PLATE,EARTH(TRONICELECTRONICS)		CJT1A026	1		
	F5801,5802	nsp	HOLDER,FUSE		KJCFC5S	2		
	JK501-507	943643102420S	2P,SCREWSPK(R/B)		CJJ5N023Z	7		
	L5101	943115100310S	COIL,SPEAKER(0.5UH)		CLEY0R5KAD	1		
	L5201	943115100310S	COIL,SPEAKER(0.5UH)		CLEY0R5KAD	1		
	L5301	943115100310S	COIL,SPEAKER(0.5UH)		CLEY0R5KAD	1		
	L5401	943115100310S	COIL,SPEAKER(0.5UH)		CLEY0R5KAD	1		
	L5501	943115100310S	COIL,SPEAKER(0.5UH)		CLEY0R5KAD	1		
	L5601	943115100310S	COIL,SPEAKER(0.5UH)		CLEY0R5KAD	1		
	L5701	943115100310S	COIL,SPEAKER(0.5UH)		CLEY0R5KAD	1		
	RY581	943682000810S	RELAY,BC3-12H,DC12V,2C2P		CSL4A016ZU	1		
	RY582-585	943682100270S	RELAY,981-2A-12DS,DC12V,2C1P		CSL3A022ZU	4		
	RY586	943682100520S	RELAY,942H-2C-12DS,DC12V,2C2P		CSL4A022ZU	1	*	
	TU500	943183100510S	TUNER,FM(SCREW:FTYPE),AM,SI4730-D60	E3	CNVYST990-A9U1	1	*	
	TU500	943183100520S	TUNER,RDS,FM(PALTYPE),AM,SI4731-D60	E2/E1	CNVYST990-D8E1	1	*	
	TU500	943183100500S	TUNER,FM(PALTYPE),AM,SI4730-D60	E1C/K	CNVYST990-A2J1	1	*	
	VR510	963161012400S	RES,SEMIFIXED(1K,BCURVE)		CVN1RA102B03T	1		
	VR520	963161012400S	RES,SEMIFIXED(1K,BCURVE)		CVN1RA102B03T	1		
	VR530	963161012400S	RES,SEMIFIXED(1K,BCURVE)		CVN1RA102B03T	1		
	VR540	963161012400S	RES,SEMIFIXED(1K,BCURVE)		CVN1RA102B03T	1		
	VR550	963161012400S	RES,SEMIFIXED(1K,BCURVE)		CVN1RA102B03T	1		
	VR560	963161012400S	RES,SEMIFIXED(1K,BCURVE)		CVN1RA102B03T	1		
	VR570	963161012400S	RES,SEMIFIXED(1K,BCURVE)		CVN1RA102B03T	1		

POWER PCB ASS'Y

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

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

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

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

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D3001-3004	00D9630328409	DIODE,RECTIFIER,AXIAL		CVD1N4007ST	4		
	D3103,3104	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	2		
	D3200	943209001080S	DIODE,CHIP,SWITCHING	X1100E3	CVD1SS355T	1		
	D6001-6008	00D9630328409	DIODE,RECTIFIER,AXIAL		CVD1N4007ST	8		
	D6009	00D9430182609	DIODE,SWITCHING		CVD1SS133MT	1		
	D6012	00D9630328409	DIODE,RECTIFIER,AXIAL		CVD1N4007ST	1		
	D6013	943204500310S	DIODE,SchottkyBattier(TO220FN)		CVDRBQ30T65A	1		
	IC301	943232100370S	I.C,REGULATOR(+12V,TO220)		CVIKIA7812BPI	1		
	IC302	00D9430183909	I.C,REGULATOR		HVIKIA7912PI	1		
	IC305	943231010390S	I.C,REGULATOR(+5V,T0220IS)		CVIKIA7805BPI	1		
!	IC601	231010091708S	I.C,OFF-LINEPOWERSWITCH		CVITOP258MG	1		
!	IC602	963239010480S	I.C,PHOTOCOUPLER		CVIPC123Y22FZ0F	1		
	IC603	212050010508S	I.C,SHUNTREGULATOR(TO-92)		CVIKIA2431AP	1		
	Q3001	943215500020S	T.R,RT1P141C(10K-10K)	X1100E3	CVTRT1P141C	1		
	Q3002	943214500020S	T.R,2SC3052	X1100E3	CVT2SC3052	1		
	Q6002	943229500110S	F.E.T,INK0010AC1(N-CH,SC-59,MOSFET,ISAHAYA)		CVTINK0010AC1	1		
	Q6003	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	ZD608-610	00D2760762958	DIODE,ZENER,1/2W,39V	E3/K	CVDZJ39BT	3		
	ZD611-618	963202010440S	DIODE,ZENER,1/2W,22V		CVDZJ22BT	8		
	ZD619	90M-HD302360R	DIODE,ZENER,1/2W,6.8V		CVDZJ6.8BT	1		
	ZD620	00D2760762958	DIODE,ZENER,1/2W,39V		CVDZJ39BT	1		
	ZD621	00D9430196306	DIODE,ZENER,1/2W,7.5V	E3	CVDZJ7.5BT	1		
	ZD621	943202000940S	DIODE,ZENER,1/2W,16V	E2/E1/E1C	CVDZJ16BT	1		
	ZD621	00D9600095607	DIODE,ZENER,1/2W,5.6V	K	CVDZJ5.6BT	1		
	RESISTOR GROUP							
	R3001	nsp	RES,CHIP(1608/5%/1Kohm)	X1100E3	CRJ10DJ102T	1		
	R3002	nsp	RES,CHIP(1608/5%/3.3Kohm)	X1100E3	CRJ10DJ332T	1		
	R3003	nsp	RES,CHIP(1608/5%/2.2Kohm)	X1100E3	CRJ10DJ222T	1		
	R3004	nsp	RES,CHIP(1608/5%/100Kohm)	X1100E3	CRJ10DJ104T	1		
	R6004	nsp	RES,CARBON(1/5W,330Kohm,J)		CRD20TJ334T	1		
	R6006	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R6008,6009	nsp	RES,CARBON(1/5W,2.2Mohm,J)	E3/K	CRD20TJ225T	2		
	R6010	nsp	RES,CARBON(1/5W,1Mohm,J)	E3/K	CRD20TJ105T	1		
	R6011	nsp	RES,CHIP(1608/5%/10ohm)		CRJ10DJ100T	1		
	R6012	nsp	RES,CHIP(1608/5%/270Kohm)	E3/K	CRJ10DJ274T	1		
	R6012	nsp	RES,CHIP(1608/5%/56Kohm)	E2/E1/E1C	CRJ10DJ563T	1		
	R6013	nsp	RES,CHIP(1608/5%/15Kohm)		CRJ10DJ153T	1		
	R6014	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R6015	nsp	RES,CARBON(1/5W,6.8ohm,J)		CRD20TJ6R8T	1		
	R6016	nsp	RES,CARBON(1/5W,56ohm,J)		CRD20TJ560T	1		
	R6017	nsp	RES,CARBON(1/5W,3.3Kohm,J)		CRD20TJ332T	1		
	R6018	nsp	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R6019	nsp	RES,CHIP(1608/1%/22Kohm)		CRJ10DF2202T	1		
	R6022	nsp	RES,CHIP(1608/1%/6.8Kohm)		CRJ10DF6801T	1		
	R6024	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R6025	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R6027-6030	nsp	RES,CHIP(2012/5%/8.2Mohm)		CRJ18AJ825T	4		
	R6031-6033	nsp	RES,CHIP(2012/5%/1Mohm)		CRJ18AJ105T	3		
	CAPACIITORS GROUP							
	C3005	00MOF15104040	CAP,METAL-FILM(100V/0.1uF)		CCME2A104JXT	1		
	C3006	943134010620S	CAP,ELECT(25V/4700uF)		CCEA1EH472E	1		
	C3007	00MOA33802520	CAP,ELECT(25V/3300uF)		CCEA1EH332E	1		
	C3008	943134502350S	CAP,ELECT(50V/470uF)		CCEA1HH471E	1		
	C3012,3013	943134502350S	CAP,ELECT(50V/470uF)		CCEA1HH471E	2		
	C3100	nsp	CAP,CHIP(1608,50V/1000pF,X7R) SAMSUNG	X1100E3	CCUS1H102KCS	1		
!	C6001-6003	963132011940S	CAP,CERAMIC(X1/Y2,0.01uF,AC250V)		CCKDKY103MFM	3		
	C6004	943134501590S	CAP,ELECT(200V/100uF),105'C	E3/K	CCET200NHA101ES	1		
	C6004	963134010200S	CAP,ELECT(400V/100UF,18X40,NHA)	E2/E1/E1C	CCET400NHA101ES	1		
	C6005	nsp	CAP,CHIP(1608,50V/0.047uF,X7R) SAMSUNG		CCUS1H473KCS	1		
	C6006	nsp	CAP,CHIP(1608,50V/0.01uF,X7R) SAMSUNG		CCUS1H103KCS	1		
	C6007	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
	C6008	00D9430175108	CAP,ELECT(50V/10uF),105'C		CCEA1HNXA100TS	1		
	C6009	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
	C6011	963132010120S	CAP,CERAMIC(DC1KV/1000pF)		CCKDDEH102KCM	1		
	C6012	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
	C6013	00MOA47602520	CAP,ELECT(25V/47uF),105'C		CCEA1ENXA470TS	1		
	C6014	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
	C6015	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R) SAMSUNG		CCUS0J475KCS	1		
	C6018,6019	963134010220S	CAP,ELECT(6.3V/5600uF)		CCEA0JNXA562ES	2		
	C6020	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
!	C6023	963132011930S	CAP,CERAMIC(X1/Y1,2200P,AC250V)		CCKDKX222MEM	1		
	C6024	nsp	CAP,CHIP(1608,50V/0.1uF,X7R) SAMSUNG		CCUS1H104KCS	1		
	C6026	943132100510S	CAP,CHIP(3216,1KV/47pF,X7R)		CCUP3A470JA	1	*	
	OTHER PARTS GROUP							
	BK301,302	nsp	BRACKET,PCB		CMD1A569-V1	2		
	BK303	nsp	BRACKET,PCB		CMD1A387-V1	1		
	BK601,602	nsp	BRACKET,PCBM3		CMD1A834	2		
	BK603	nsp	BRACKET,PCB		CMD1A629	1		
	BN301	nsp	WIREASS'YLocking(7P,2.5MM,80MM,#24)		CWB1C0070803D	1		
	BN302	nsp	WIREASS'YLocking(YH)(3P,2MM,50MM,#28)	X1100E3	CWB1A003050HC	1		
	BN601	nsp	WIREASS'YLocking(YH)(5P,2.5MM,150MM,#22)		CWB1D0051503D	1		
	CN302	nsp	WAFER/STRAIGHT/2.5mm/5P		CJP05GA01ZY	1		
	CN601	nsp	WAFER,2P,3.96mm		CJP02KA060ZY	1		
	CN602	nsp	WAFER,2P,7.92mm		CJP02GA89ZY	1		
!	CX601	9431395000020S	CAP,POLYPROPYLENEFILM		HCQF2E104KZE	1		
!	CY601,602	963134011730S	CAP,CERAMIC(X1/Y1,470P,AC250V)		CCKDKX471KBM	2		
	F3001,3002	nsp	HOLDER,FUSE		KJCFC5S	2		
	F6001,6002	nsp	HOLDER,FUSE		KJCFC5S	2		
	JK301	90M-YT004860R	JACK,STEREO(BLKMOLD)	X1100E3	CJJ2D008Z	1		
!	LF602	963111010230S	LINEFILTER,27mH	E3/K	CLZ9Z126Z	1		
	LF602	963134010200S	CAP,ELECT(400V/100UF,18X40,NHA)	E2/E1/E1C	CCET400NHA101ES	1		
!	RY601	963682010370S	RELAY,HL31-1AT-5H,DC5V,1C1P		CSL1C006ZE	1		
!	T6001	943102100350S	TRANS,SWITCHING		CLT9Z093ZE	1		
!	F3001	00D2061096006	FUSE(218Series,250V/1.25A)		KBA2C1250TLEY	1		
!	F3002	00D2061096006	FUSE(218Series,250V/1.25A)		KBA2C1250TLEY	1		
!	F5801	90M-FS001220R	FUSE(218Series,250V/8A)		KBA2C8000TLEY	1		
!	F5802	90M-FS001220R	FUSE(218Series,250V/8A)		KBA2C8000TLEY	1		
!	F6001	963652010510S	FUSE(S506Series,250V,2A)	E3/K	CBA2C2000TLEC	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
!	F6001	963652010500S	FUSE(S506Series,250V,1.6A)	E2/E1/E1C	CBA2C1600TLEC	1		
!	F6002	90M-FS001430R	FUSE(218Series,250V/6.3A)	E3/K	KBA2C6300TLEY	1		
!	F6002	90M-FS001420R	FUSE(218Series,250V/3.15A)	E2/E1/E1C	KBA2C3150TLEY	1		

DIGITAL PCB ASS'Y

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

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

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

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

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	D7131	963209003510S	DIODE,RELIABLEESDPROTECTION		CVDCDS3C05HDMI2	1		
	D7201	00D2760718902	DIODE,SCHOTTKY,30V		CVDRB521S-30	1		
	D7401	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T	1		
	D7402	201310001503S	DIODE,ULTRA-HIGHSPEED		CVDKDS160RTKP	1		
	D7403,7404	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T	2		
	D7501	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T	1		
	D7502	201310001503S	DIODE,ULTRA-HIGHSPEED		CVDKDS160RTKP	1		
	D7702-7705	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T	4		
	D8051,8052	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T	2		
	D8201,8202	00D9430196306	DIODE,ZENER,1/2W,7.5V		CVDZJ7.5BT	2		
	D8203,8204	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T	2		
	D8205	943202500720S	DIODE,ZENER(3.6V/0.5W,SOD-123)		CVDMM1Z3V6H	1		
	D8206	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T	1		
	D8501,8502	943202500820S	DIODE,ZENER(6.8V/0.5W,SOD-123)	X1100E3	CVDMM1Z6V8H	2	*	
	D8801,8802	943202500730S	DIODE,ZENER(5.1V/0.5W,SOD-123)		CVDMM1Z5V1H	2		
	IC701	943236101820S	I.C,HDMI2.0Transceiver(HQFP-144P)		CVIMN8647781A	1	*	
	IC721	943236012460S	I.C,HDMITransceiver(LQFP-144P)		CVIADV7623BSTZ	1		
	IC722	–	I.C,SERIALFLASH(32M)		CVIMX25L3206EM2I	1		
	IC722 L	943248102660S	I.C,OSDSerialFlash(AVR-S700WBKE3/X1100WBKE3)	E3/E1C/K	CVIANAM1902AV	1	*	
	IC722 L	943248102670S	I.C,OSDSerialFlash(AVR-X1100WBKE2/E1)	E2/E1	CVIMX25L6406EM2I	1	*	
	IC722 L	943248102680S	I.C,OSDSerialFlash(AVR-X1100WBKE1C/SPE1C)	E1C	CVIANAM1904AV	1	*	
	IC722 L	943248102690S	I.C,OSDSerialFlash(AVR-X1100W-K)	JP	CVIANAM1905AV	1	*	
	IC723	943239101510S	I.C,MUX/DEMUX(TSSOP-16P)		CVISN74CBT3251PV	1	*	
	IC731	963236101810S	I.C,HDMI2.0Transceiver(HQFP-144P)		CVIMN8647781	1	*	
	IC741-746	943239101070S	I.C,DC-DCCONVERTER(3A,QFNT&R-24P)		CVIEN5339QI	6		
	IC747	943239100730S	I.C,SYSTEMRESET(4.8V,SOT-25A)		CVIPST8448NR_A	1		
	IC748	943239010400S	I.C,REGULATOR(3.3V/TO-252)		CVINJM2845DL133	1		
	IC751	–	I.C,CPU(2M/PLQP0144KA-A)		CVIR5F56108VNFP	1		
	IC751 L	943243102100D	R5F56108VNFP (MAIN CPU for CX870) E3	E3	CVIANAM1896AV	1	*	
	IC751 L	943243102110D	R5F56108VNFP (MAIN CPU for CX870) E2/E1	E2/E1	CVIANAM1897AV	1	*	
	IC751 L	943243102120D	R5F56108VNFP (MAIN CPU for CX870) E1C	E1C	CVIANAM1899AV	1	*	
	IC751 L	943243102130D	R5F56108VNFP (MAIN CPU for CX870) JP	JP	CVIANAM1898AV	1	*	
	IC752	943239101500S	I.C,EEPROM(128KBIT,SOP-8P)		CVIR1EX24128BSAS	1	*	
	IC753,754	943239101490S	I.C,8-STAGESHIFTREGISTER(TSSOP-16)		CVIMC14094BDTR2(	2	*	
	IC761	963239002150S	I.C,OCTALBUFFER/DRIVER		CVISN74LVC244APV	1		
	IC771	00D2623077900	I.C,HEXINVERTER	E3	HVITC74VHCU04FT	1		
	IC772	943236101350D	I.C,DIR/DIT(WITHADC,LQFP-48P)		CVIPCM9211PTR	1		
	IC773	–	I.C,CPLD(TQFP-100P)		CVI5M80ZT100C5N	1		
	IC773 L	943243102270S	I.C,PLD(AVR-S700W/X1100WALL)		CVIANAM1901AV	1	*	
	IC774,775	00D2623198902	I.C,QUAD2-CHANNELMUX(TSSOP-16)		HVITC74VHC157FT	2		
	IC781	943245100360D	I.C,DSP(LQFP-176P/350M)		CVIADSP21487KSW	1		
	IC782	–	I.C,SERIALFLASH(16M)		CVIMX25L1606EM2I	1		
	IC782 L	943248102700S	I.C,DSPSerialFlash(AVR-S700W/X1100WALL)		CVIANAM1900AV	1	*	
	IC783	943246101030S	I.C,64MDRAM(54P)		CVIA3V64S40GTP-6	1	*	
	IC791	943239101080S	I.C,DAC(8CH,HTSSOP-48)		CVIPCM1690DCAR	1		
	IC792-795	943232100380S	I.C,DUALOPAMP(SOP-8P)		CVINJM8080G	4		
	IC802	23671011050AS	I.C,IPODAUTHENTICATIONFROMD&M		CVI23671011050AS	1		
	IC804	943239101520S	I.C,0-BITBUFFER/DRIVERTSSOP24TEXASINSTRUMENTS		CVISN74LVC827APV	1	*	
	IC805	943239100690S	I.C,2CHDAC(32BIT,384KHZ,TSSOP-20P)		CVIPCM5100PWR	1		
	IC806	943239010400S	I.C,REGULATOR(3.3V/TO-252)		CVINJM2845DL133	1		
	IC811	963236101380P	I.C,HDMIBUFFER		CVIAD8195ACPZ	1		
	IC821	943235100520S	I.C,INPUTWITH8CHVOLUME(52PLQFP)		CVINJU72340AFH3	1		
	IC851	90M-HC109850R	I.C,VIDEO2CH	X1100E3	CVIBD3812F	1		
	IC852	943232100380S	I.C,DUALOPAMP(SOP-8P)	X1100E3	CVINJM8080G	1		
	IC881	90M-HC109700R	I.C,VIDEOS/W(JRC)		CVINJM2595MTE1	1		
	Q7101,7102	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q7111,7112	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q7121,7122	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q7201-7203	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	3		
	Q7301,7302	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q7311,7312	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	2		
	Q7403	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q7404	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7405	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q7406	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7407	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q7408	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7409	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q7410	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7411	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q7412	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7413	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q7414	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7415	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q7416	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
	Q7417	963212500030S	T.R,ISA1530AC1		CVTISA1530AC1	1		
	Q7418	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q7419	943214500020S	T.R,2SC3052		CVT2SC3052	1		
	Q7420	963212500030S	T.R,ISA1530AC1		CVTISA1530AC1	1		
	Q7421	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q7422	963212500030S	T.R,ISA1530AC1		CVTISA1530AC1	1		
	Q7423	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q7501	943214500030S	T.R,MUTE		CVTINC2001AC1	1		
	Q7502,7503	943214500020S	T.R,2SC3052		CVT2SC3052	2		
	Q7601-7604	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	4		
	Q7605-7607	943214500020S	T.R,2SC3052		CVT2SC3052	3		
	Q8001	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
	Q8101	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	1		
	Q8102	943216500040S	T.R,RT1N241C(22K-22K)		CVTRT1N241C	1		
	Q8201	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8202	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
	Q8203	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
	Q8205	943214500030S	T.R,MUTE		CVTINC2001AC1	1		
	Q8501	943215500030S	T.R,RT1P441C(47K-47K)	X1100E3	CVTRT1P441C	1		
	Q8502	943216500050S	T.R,RT1N441C(47K-47K)	X1100E3	CVTRT1N441C	1		
	Q8503	943215500030S	T.R,RT1P441C(47K-47K)	X1100E3	CVTRT1P441C	1		
	Q8506,8507	943214500030S	T.R,MUTE	X1100E3	CVTINC2001AC1	2		
	RESISTOR GROUP							

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R7101	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7102	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7103-7105	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	3		
	R7106-7108	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R7111	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7112	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7113-7115	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	3		
	R7116-7118	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R7121	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7122	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7123-7125	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	3		
	R7126-7128	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R7131	nsp	RES,CHIP(1608/1%/510ohm)		CRJ10DF5100T	1		
	R7132,7133	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R7134	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7135,7136	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	2		
	R7137	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7138	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R7139-7141	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
	R7142	nsp	RES,CHIP(1005/5%/1Mohm)		CRJ06IJ105T	1		
	R7143	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7144	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7147	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7149	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7150,7151	nsp	RES,CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	2		
	R7152,7153	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R7154	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R7201,7202	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R7203	nsp	RES,CHIP(1608/1%/1.6Kohm)		CRJ10DF1601T	1		
	R7204	nsp	RES,CHIP(1608/1%/2Kohm)		CRJ10DF2001T	1		
	R7205,7206	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R7207	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7209	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7211-7213	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R7215-7222	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	8		
	R7223,7224	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R7225	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7227	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7228	nsp	RES,CHIP(1608/5%/390Kohm)		CRJ10DJ394T	1		
	R7229	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7230,7231	nsp	RES,CHIP(1005/1%/1Kohm)		CRJ06IF1001T	2		
	R7232	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7233	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7234	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7235-7237	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	3		
	R7239	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7241	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7243-7246	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	4		
	R7247,7248	nsp	RES,CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	2		
	R7249-7251	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	3		
	R7252	nsp	RES,CHIP(1005/5%/2.2Kohm)		CRJ06IJ222T	1		
	R7253	nsp	RES,CHIP(1005/5%/8.2Kohm)		CRJ06IJ822T	1		
	R7254	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7255-7258	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	4		
	R7301	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7302	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7303-7305	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	3		
	R7306-7308	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R7311	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7312	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7313-7315	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	3		
	R7316-7318	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R7331,7332	nsp	RES,CHIP(1608/1%/510ohm)		CRJ10DF5100T	2		
	R7333-7338	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	6		
	R7339	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7341	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7342	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7343-7345	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	3		
	R7346	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7349	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7350	nsp	RES,CHIP(1005/5%/1Mohm)		CRJ06IJ105T	1		
	R7351	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7352	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7354	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7356	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R7358,7359	nsp	RES,CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	2		
	R7360-7362	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R7363,7364	nsp	RES,CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	2		
	R7365	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7366,7367	nsp	RES,CHIP(1608/1%/51ohm)		CRJ10DF51R0T	2		
	R7368	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7369	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7401	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7402,7403	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R7404	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R7405	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7406	nsp	RES,CHIP(1608/1%/76.8Kohm)		CRJ10DF7682T	1		
	R7411	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7412,7413	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R7414	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R7415	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7416	nsp	RES,CHIP(1608/1%/160Kohm)		CRJ10DF1603T	1		
	R7421	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7422,7423	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R7424,7425	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	2		
	R7431	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7432,7433	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R7434	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R7435	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7436	nsp	RES,CHIP(1608/1%/412Kohm)		CRJ10DF4123T	1		
	R7441	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7442,7443	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R7444	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R7445	nsp	RES,CHIP(1608/1%/39Kohm)		CRJ10DF3902T	1		
	R7446	nsp	RES,CHIP(1608/1%/300Kohm)		CRJ10DF3003T	1		
	R7451	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R7453,7454	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R7455	nsp	RES,CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1		
	R7456	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R7457	nsp	RES,CHIP(1608/1%/174Kohm)		CRJ10DF1743T	1		
	R7463-7477	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	15		
	R7478	nsp	RES,CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7479,7480	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R7481	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7482	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7483	nsp	RES,CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R7484	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7485	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7486	nsp	RES,CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7487	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7488	nsp	RES,CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7501-7504	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
	R7505	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7506	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7507	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R7508	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7509-7514	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	6		
	R7515	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7516	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7517,7518	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	2		
	R7519-7521	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R7522,7523	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	2		
	R7524,7525	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R7527-7535	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	9		
	R7536-7538	nsp	RES,CHIP(1005/5%/33ohm)	X1100E3	CRJ06IJ330T	3		
	R7539-7552	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	14		
	R7553-7555	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	3		
	R7556	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7557	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7558	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7559	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7560	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7561-7565	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	5		
	R7567,7568	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R7569	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7570	nsp	RES,CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R7571	nsp	RES,CHIP(1005/5%/2.2Mohm)		CRJ06IJ225T	1		
	R7572	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7573	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7574	nsp	RES,CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
	R7575	nsp	RES,CHIP(1005/5%/220Kohm)		CRJ06IJ224T	1		
	R7576	nsp	RES,CHIP(1005/5%/27Kohm)		CRJ06IJ273T	1		
	R7577	nsp	RES,CHIP(1005/5%/1.2Kohm)		CRJ06IJ122T	1		
	R7578	nsp	RES,CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7581	nsp	RES,CHIP(1608/5%/0ohm)	E2/E1	CRJ10DJ0R0T	1		
	R7581	nsp	RES,CHIP(1608/5%/1Kohm)	E1C/K	CRJ10DJ102T	1		
	R7581	nsp	RES,CHIP(1608/5%/1.8Kohm)	S700	CRJ10DJ182T	1		
	R7582	nsp	RES,CHIP(1608/5%/0ohm)	X1100E3	CRJ10DJ0R0T	1		
	R7582	nsp	RES,CHIP(1608/5%/1Kohm)	E1C	CRJ10DJ102T	1		
	R7582	nsp	RES,CHIP(1608/5%/3.3Kohm)	S700	CRJ10DJ332T	1		
	R7583-7585	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R7601-7603	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R7604-7607	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	4		
	R7608	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
	R7609	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7610	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7611	nsp	RES,CHIP(1005/5%/3.9Kohm)		CRJ06IJ392T	1		
	R7612	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7613	nsp	RES,CHIP(1005/5%/27Kohm)		CRJ06IJ273T	1		
	R7614	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7615	nsp	RES,CHIP(1005/5%/2.7Kohm)		CRJ06IJ272T	1		
	R7616	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7617-7619	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
	R7620	nsp	RES,CHIP(1005/5%/27Kohm)		CRJ06IJ273T	1		
	R7621	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7622	nsp	RES,CHIP(1005/5%/2.7Kohm)		CRJ06IJ272T	1		
	R7623	nsp	RES,CHIP(1005/5%/3.9Kohm)		CRJ06IJ392T	1		
	R7624,7625	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	2		
	R7626	nsp	RES,CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
	R7627	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R7628	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7629	nsp	RES,CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
	R7630	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R7633	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R7636	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R7701,7702	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R7703,7704	nsp	RES,CHIP(1005/5%/150ohm)	E3	CRJ06IJ151T	2		
	R7705	nsp	RES,CHIP(1005/5%/470ohm)	E3	CRJ06IJ471T	1		
	R7708	nsp	RES,CHIP(1005/5%/47Kohm)	E3	CRJ06IJ473T	1		
	R7709	nsp	RES,CHIP(1608/5%/330Kohm)	E3	CRJ10DJ334T	1		
	R7710	nsp	RES,CHIP(1005/5%/33ohm)	E3	CRJ06IJ330T	1		
	R7713,7714	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R7715	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R7716-7720	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	5		
	R7721	nsp	RES,CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
	R7722	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7723,7724	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R7725	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7726	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R7727	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7728	nsp	RES,CHIP(1005/5%/820ohm)		CRJ06IJ821T	1		
	R7729	nsp	RES,CHIP(1608/5%/680ohm)		CRJ10DJ681T	1		
	R7730,7731	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R7751	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7752-7754	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R7755	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
	R7756	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7757-7760	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	4		
	R7761	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7762-7764	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	3		
	R7765	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7766-7770	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	5		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R7771-7781	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	11		
	R7801	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7802-7804	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	3		
	R7805	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R7806	nsp	RES,CHIP(1608/5%/390ohm)		CRJ10DJ391T	1		
	R7807-7810	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
	R7811,7812	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R7813	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7815,7816	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R7817	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7818	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7819	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7820-7823	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
	R7824,7825	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
	R7826	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7827	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7828	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7829	nsp	RES,CHIP(1608/5%/4.7Kohm)	S700	CRJ10DJ472T	1		
	R7830	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7831	nsp	RES,CHIP(1005/5%/4.7Kohm)	X1100	CRJ06IJ472T	1		
	R7832	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7833	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
	R7834	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R7836	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R7838-7841	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	4		
	R7842-7845	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	4		
	R7847	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R7848	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7850	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R7851,7852	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R7853	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R7855	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R7857-7859	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
	R7901	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R7902	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R7903,7904	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	2		
	R7907,7908	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R7911,7912	nsp	RES,CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7913	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7914	nsp	RES,CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7915	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7916	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7917	nsp	RES,CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7918	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7919	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7921,7922	nsp	RES,CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7923	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7924	nsp	RES,CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7925,7926	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	2		
	R7927	nsp	RES,CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7928	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7929	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7931,7932	nsp	RES,CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7933	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7934	nsp	RES,CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7935	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7936	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7937	nsp	RES,CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7938	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7939	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7941,7942	nsp	RES,CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7943	nsp	RES,CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
	R7944	nsp	RES,CHIP(1608/0.5%/39Kohm)		CRJ06DD393TP	1		
	R7945,7946	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	2		
	R7947	nsp	RES,CHIP(1608/0.5%/39Kohm)		CRJ06DD393TP	1		
	R7948	nsp	RES,CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
	R7949	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7951,7952	nsp	RES,CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7953	nsp	RES,CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
	R7954	nsp	RES,CHIP(1608/0.5%/18Kohm)		CRJ06DD183TP	1		
	R7955	nsp	RES,CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R7956	nsp	RES,CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
	R7957	nsp	RES,CHIP(1608/0.5%/18Kohm)		CRJ06DD183TP	1		
	R7958	nsp	RES,CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R7959	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7961,7962	nsp	RES,CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7963	nsp	RES,CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
	R7964	nsp	RES,CHIP(1608/0.5%/18Kohm)		CRJ06DD183TP	1		
	R7965,7966	nsp	RES,CHIP(1608/5%/820ohm)		CRJ10DJ821T	2		
	R7967	nsp	RES,CHIP(1608/0.5%/18Kohm)		CRJ06DD183TP	1		
	R7968	nsp	RES,CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
	R7969	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7971,7972	nsp	RES,CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7973	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7974	nsp	RES,CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7975	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7976	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7977	nsp	RES,CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7978	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
	R7979	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R7981,7982	nsp	RES,CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2		
	R7983	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7984	nsp	RES,CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7985,7986	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	2		
	R7987	nsp	RES,CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1		
	R7988	nsp	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
	R7989	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R8001	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8002	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R8003-8005	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T	3		
	R8006	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8010	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8011	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R8013,8014	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
	R8015-8017	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
	R8021,8022	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R8026-8028	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
	R8041	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
	R8055	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8057	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8058	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8060	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8061,8062	nsp	RES,CHIP(1005/5%/470ohm)		CRJ06IJ471T	2		
	R8063,8064	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R8074	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R8076	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R8077	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
	R8102	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
	R8103	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
	R8104	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R8105	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R8107	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
	R8108	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R8111	nsp	RES,CHIP(1005/5%/2Kohm)		CRJ06IJ202T	1		
	R8117,8118	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R8120,8121	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	R8123	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
	R8126,8127	nsp	RES,CHIP(1005/5%/2Kohm)		CRJ06IJ202T	2		
	R8128	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R8201,8202	nsp	RES,CHIP(1608/5%/270ohm)		CRJ10DJ271T	2		
	R8203	nsp	RES,CHIP(1608/5%/27Kohm)		CRJ10DJ273T	1		
	R8204	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R8205	nsp	RES,CHIP(1608/5%/27Kohm)		CRJ10DJ273T	1		
	R8206	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R8207	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R8208	nsp	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
	R8209	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
	R8213,8214	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R8215,8216	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	2		
	R8217,8218	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
	R8219,8220	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	2		
	R8221	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R8222-8228	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	7		
	R8229-8231	nsp	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T	3		
	R8236-8239	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	4		
	R8240,8241	nsp	RES,M-OXIDEFILM(1W/150ohm)		CRG1SANJ151RT	2		
	R8242-8244	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	3		
	R8245,8246	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R8247-8254	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	8		
	R8255	nsp	RES,CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
	R8256	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R8257,8258	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
	R8259	nsp	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
	R8260	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1		
	R8261	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8263,8264	nsp	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T	2		
	R8265,8266	nsp	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
	R8267	nsp	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T	1		
	R8271	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	R8501,8502	nsp	RES,M-OXIDEFILM(1W/470ohm)	X1100E3	CRG1SANJ471RT	2		
	R8503,8504	nsp	RES,CHIP(1608/5%/100Kohm)	X1100E3	CRJ10DJ104T	2		
	R8505,8506	nsp	RES,CHIP(1608/5%/100ohm)	X1100E3	CRJ10DJ101T	2		
	R8507,8508	nsp	RES,CHIP(1608/5%/47Kohm)	X1100E3	CRJ10DJ473T	2		
	R8509,8510	nsp	RES,CHIP(1608/5%/2.2Kohm)	X1100E3	CRJ10DJ222T	2		
	R8511,8512	nsp	RES,CHIP(1608/5%/11Kohm)	X1100E3	CRJ10DJ113T	2		
	R8513,8514	nsp	RES,CHIP(1608/5%/100ohm)	X1100E3	CRJ10DJ101T	2		
	R8515	nsp	RES,CHIP(1608/5%/10Kohm)	X1100E3	CRJ10DJ103T	1		
	R8516	nsp	RES,CHIP(1608/5%/1Kohm)	X1100E3	CRJ10DJ102T	1		
	R8517	nsp	RES,CHIP(1608/5%/470Kohm)	X1100E3	CRJ10DJ474T	1		
	R8518	nsp	RES,CHIP(1608/5%/10Kohm)	X1100E3	CRJ10DJ103T	1		
	R8521	nsp	RES,CHIP(1608/5%/10Kohm)	X1100E3	CRJ10DJ103T	1		
	R8522-8525	nsp	RES,CHIP(1608/5%/470ohm)	X1100E3	CRJ10DJ471T	4		
	R8526-8529	nsp	RES,CHIP(1608/5%/100Kohm)	X1100E3	CRJ10DJ104T	4		
	R8530,8531	nsp	RES,CHIP(1608/5%/220ohm)	X1100E3	CRJ10DJ221T	2		
	R8801,8802	nsp	RES,CHIP(1608/1%/75ohm)		CRJ10DF75R0T	2		
	R8803	nsp	RES,CHIP(1608/5%/1.8Kohm)		CRJ10DJ182T	1		
	R8804	nsp	RES,CHIP(1608/1%/82ohm)		CRJ10DF82R0T	1		
	R8805	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
	R8806,8807	nsp	RES,M-OXIDEFILM(1W/270ohm)		CRG1SANJ271RT	2		
	R8808	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	RN711	nsp	RES,CHIP(1005/5%/33ohm*2)		CRJ062IJ330T	1		
	RN712	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN731-733	nsp	RES,CHIP(1005/5%/0ohm*2)		CRJ062IJ0R0T	3		
	RN734	943113100000S	COMMONMODEFILTER(1210,90ohm)		CLZ9Z188Z	1	*	
	RN735	nsp	RES,CHIP(1005/5%/10ohm*4)		CRJ064IJ100T	1		
	RN761	nsp	RES,CHIP(1005/5%/33ohm*2)		CRJ062IJ330T	1		
	RN762	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN765	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN766	nsp	RES,CHIP(1005/5%/33ohm*2)		CRJ062IJ330T	1		
	RN767,768	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	2		
	RN769	nsp	RES,CHIP(1005/5%/33ohm*2)		CRJ062IJ330T	1		
	RN781-784	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	4		
	RN785,786	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T	2		
	RN787-790	nsp	RES,CHIP(1005/5%/10ohm*4)		CRJ064IJ100T	4		
	RN791	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN801	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	1		
	RN802,803	nsp	RES,CHIP(1005/5%/0ohm*4)		CRJ064IJ0R0T	2		
	RN805,806	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	2		
	RN811-814	nsp	RES,CHIP(1005/5%/0ohm*2)		CRJ062IJ0R0T	4		
	CAPACIITORS GROUP							
	C7101-7105	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	5		
	C7106	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7107	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7108	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7109	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7110	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7111	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7112	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7113-7130	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	18		
	C7131	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7132-7137	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	6		
	C7138	nsp	CAP,CHIP(1608,50V/15pF,C0G)_SAMSUNG		CCUS1H150JAS	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C7139	nsp	CAP,CHIP(1608,50V/12pF,C0G)_SAMSUNG		CCUS1H120JAS	1		
	C7140-7142	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C7143,7144	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	2		
	C7145,7146	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C7147,7148	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7153,7154	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7157,7158	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7163,7164	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7166,7167	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7169,7170	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7180,7181	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7190,7191	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7201-7208	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	8		
	C7209	nsp	CAP,ELECT(10V/100uF)-S		CCEA1AKS101T	1		
	C7210	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7211	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7212	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7213	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7214	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7215	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7218	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7219	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7222-7225	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	4		
	C7226	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7227	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7228	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7229	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7232-7234	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C7235	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7236-7238	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C7239	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7240	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7242	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7243-7251	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	9		
	C7278,7279	nsp	CAP,CHIP(1608,50V/15pF,C0G)_SAMSUNG		CCUS1H150JAS	2		
	C7301-7304	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	4		
	C7305	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7306	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7307	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7308	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7309	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7310	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7311	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7312-7328	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	17		
	C7329	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7330-7336	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	7		
	C7337	nsp	CAP,CHIP(1608,50V/15pF,C0G)_SAMSUNG		CCUS1H150JAS	1		
	C7338	nsp	CAP,CHIP(1608,50V/12pF,C0G)_SAMSUNG		CCUS1H120JAS	1		
	C7339-7341	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	3		
	C7342-7345	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	4		
	C7348,7349	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7354,7355	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7357,7358	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7360,7361	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7370,7371	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7380,7381	nsp	CAP,CHIP(1608,6.3V/4.7uF,X5R)_SAMSUNG		CCUS0J475KCS	2		
	C7386	13405014440AS	CAP,ELECT(50V/100uF)		CCEA1HH101T	1		
	C7387	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7399,7400	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	2		
	C7401	00D9430103905	CAP,ELECT(16V/470uF)		CCEA1CH471T	1		
	C7403	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7405	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7406	00D9430103905	CAP,ELECT(16V/470uF)		CCEA1CH471T	1		
	C7409	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7410	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7411	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7412	nsp	CAP,CHIP(1608,50V/3.3pF,C0G)_SAMSUNG		CCUS1H3R3JAS	1		
	C7413	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7414	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7415	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7416	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7417	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7420	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7421	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7422	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7423	nsp	CAP,CHIP(1608,50V/5pF,C0G)_SAMSUNG		CCUS1H050CAS	1		
	C7424	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7425	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7426	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7427	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7428	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7431	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7432	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7433	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7434	nsp	CAP,CHIP(1608,50V/5pF,C0G)_SAMSUNG		CCUS1H050CAS	1		
	C7435	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7436	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7437	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7438	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7439	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7442	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7443	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7444	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7445	nsp	CAP,CHIP(1608,50V/5pF,C0G)_SAMSUNG		CCUS1H050CAS	1		
	C7446	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7447	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7448	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7449	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7450	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7453	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7454	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7455	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7456	nsp	CAP,CHIP(1608,50V/5pF,C0G)_SAMSUNG		CCUS1H050CAS	1		
	C7457	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7458	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7459	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C7460	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7461	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7464	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7465	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7466	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7467	nsp	CAP,CHIP(1608,50V/5pF,C0G)_SAMSUNG		CCUS1H050CAS	1		
	C7468	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7469	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7470	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7471	nsp	CAP,CHIP(2012,6.3V/22uF,X5R)_SAMSUNG		CCUC0J226KCS	1		
	C7472	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7477	nsp	CAP,CHIP(1005,25V/0.022uF,X7R)_SAMSUNG		CCUI1E223KCS	1		
	C7478-7491	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	14		
	C7492	nsp	CAP,CHIP(1005,25V/0.015uF,X7R)_SAMSUNG		CCUI1E153KCS	1		
	C7493	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7494	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7497	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7498	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C7501,7502	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C7503,7504	nsp	CAP,CHIP(1608,50V/27pF,C0G)_SAMSUNG		CCUS1H270JAS	2		
	C7505	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7506	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C7507-7514	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	8		
	C7516	nsp	CAP,CHIP(1005,50V/220pF,C0G)_SAMSUNG		CCUI1H221JAS	1		
	C7517-7519	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C7520-7523	nsp	CAP,CHIP(1608,50V/0.01uF,X7R)_SAMSUNG		CCUS1H103KCS	4		
	C7601	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7603-7605	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	3		
	C7701,7702	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C7704	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG	E3	CCUI1E103KCS	1		
	C7705,7706	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG	E3	CCUI1C104KCS	2		
	C7707,7708	nsp	CAP,CHIP(1608,50V/4700pF,X7R)_SAMSUNG		CCUS1H472KCS	2		
	C7709,7710	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	2		
	C7711	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7712	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C7713,7714	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C7715	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C7716,7717	nsp	CAP,CHIP(1608,50V/12pF,C0G)_SAMSUNG		CCUS1H120JAS	2		
	C7718	nsp	CAP,CHIP(2012,50V/4700pF,MURATAGRM21)		CCUMUC1H472JAM	1		
	C7719	nsp	CAP,CHIP(3216,50V/0.068uF,MURATAGRM31)		CCUMUP1H683JAM	1		
	C7720	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7721	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C7722	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7723	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C7724	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7725	13405014440AS	CAP,ELECT(50V/100uF)		CCEA1HH101T	1		
	C7726,7727	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C7751-7758	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	8		
	C7798-7800	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	3		
	C7801-7803	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C7804,7805	nsp	CAP,CHIP(1608,50V/18pF,C0G)_SAMSUNG		CCUS1H180JAS	2		
	C7806-7841	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	36		
	C7843	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7845	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7846,7847	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C7848	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7849	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7850	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7851	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7852,7853	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	2		
	C7854	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7855	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7856	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7857	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	1		
	C7858	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7859-7896	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	38		
	C7901	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7902	9431345017805	CAP,ELECT(KR1,47uF/63V,8X11.5)		CCEA1JKR1470T	1		
	C7903	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C7904	9431345017805	CAP,ELECT(KR1,47uF/63V,8X11.5)		CCEA1JKR1470T	1		
	C7905	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7906	9431345023505	CAP,ELECT(50V/470uF)		CCEA1HH471E	1		
	C7907	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	1		
	C7908-7910	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	3		
	C7911	nsp	CAP,CHIP(1608,50V/1800pF,X7R)_SAMSUNG		CCUS1H182KCS	1		
	C7913,7914	nsp	CAP,CHIP(1608,50V/270pF,C0G)_SAMSUNG		CCUS1H271JAS	2		
	C7916	nsp	CAP,ELECT(63V/100uF)		CCEA1JH101E	1		
	C7921	nsp	CAP,CHIP(1608,50V/1800pF,X7R)_SAMSUNG		CCUS1H182KCS	1		
	C7923,7924	nsp	CAP,CHIP(1608,50V/270pF,C0G)_SAMSUNG		CCUS1H271JAS	2		
	C7926	nsp	CAP,ELECT(63V/100uF)		CCEA1JH101E	1		
	C7931	nsp	CAP,CHIP(1608,50V/1800pF,X7R)_SAMSUNG		CCUS1H182KCS	1		
	C7933,7934	nsp	CAP,CHIP(1608,50V/270pF,C0G)_SAMSUNG		CCUS1H271JAS	2		
	C7941	nsp	CAP,CHIP(1608,50V/1200pF,X7R)_SAMSUNG		CCUS1H122KCS	1		
	C7943,7944	nsp	CAP,CHIP(1608,50V/150pF,C0G)_SAMSUNG		CCUS1H151JAS	2		
	C7951	nsp	CAP,CHIP(1608,50V/1000pF,X7R)_SAMSUNG		CCUS1H102KCS	1		
	C7953,7954	nsp	CAP,CHIP(1608,50V/180pF,C0G)_SAMSUNG		CCUS1H181JAS	2		
	C7961	nsp	CAP,CHIP(1608,50V/1000pF,X7R)_SAMSUNG		CCUS1H102KCS	1		
	C7963,7964	nsp	CAP,CHIP(1608,50V/180pF,C0G)_SAMSUNG		CCUS1H181JAS	2		
	C7971	nsp	CAP,CHIP(1608,50V/1800pF,X7R)_SAMSUNG		CCUS1H182KCS	1		
	C7973,7974	nsp	CAP,CHIP(1608,50V/270pF,C0G)_SAMSUNG		CCUS1H271JAS	2		
	C7981	nsp	CAP,CHIP(1608,50V/1800pF,X7R)_SAMSUNG		CCUS1H182KCS	1		
	C7983,7984	nsp	CAP,CHIP(1608,50V/270pF,C0G)_SAMSUNG		CCUS1H271JAS	2		
	C7991,7992	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C7993,7994	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C7995-8000	nsp	CAP,CHIP(1005,50V/1000pF,X7R)_SAMSUNG		CCUI1H102KCS	6		
	C8001-8004	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	4		
	C8005	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C8012	nsp	CAP,CHIP(1005,25V/0.022uF,X7R)_SAMSUNG		CCUI1E223KCS	1		
	C8018	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C8021,8022	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C8023-8028	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	6		
	C8051-8053	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C8054	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C8055,8056	nsp	CAP,CHIP(1608,6.3V/2.2uF,X7R)_SAMSUNG		CCUS0J225KCS	2		
	C8057	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C8059	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C8060	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C8061	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C8062	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C8063,8064	nsp	CAP,CHIP(1608,50V/2200pF,X7R)_SAMSUNG		CCUS1H222KCS	2		
	C8101-8105	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	5		
	C8108-8111	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	4		
	C8112	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C8113-8121	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	9		
	C8122	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C8127	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	1		
	C8128	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C8134	nsp	CAP,CHIP(1005,25V/0.01uF,X7R)_SAMSUNG		CCUI1E103KCS	1		
	C8201,8202	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG		CCUS1H101JAS	2		
	C8203	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C8204,8205	nsp	CAP,CHIP(1608,50V/100pF,C0G)_SAMSUNG		CCUS1H101JAS	2		
	C8206	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C8207	nsp	CAP,ELECT(10V/470uF)		CCEA1AH471T	1		
	C8208-8210	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	3		
	C8212,8213	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C8215,8216	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C8217-8220	nsp	CAP,CHIP(1608,50V/220pF,C0G)_SAMSUNG		CCUS1H221JAS	4		
	C8221-8223	13405014440AS	CAP,ELECT(50V/100uF)		CCEA1HH101T	3		
	C8224,8225	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	2		
	C8226-8230	13405014440AS	CAP,ELECT(50V/100uF)		CCEA1HH101T	5		
	C8231,8232	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C8235,8236	13405014440AS	CAP,ELECT(50V/100uF)		CCEA1HH101T	2		
	C8237,8238	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C8239,8240	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	2		
	C8243	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C8244-8251	9431345000070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	8		
	C8252-8258	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	7		
	C8259	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C8260,8261	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C8262	nsp	CAP,ELECT(50V/0.1uF)		CCEA1HH0R1T	1		
	C8263,8264	nsp	CAP,ELECT(50V/22uF)		CCEA1HH220T	2		
	C8265	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG		CCUS1H331JAS	1		
	C8266	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	1		
	C8501,8502	nsp	CAP,ELECT(50V/10uF)	X1100E3	CCEA1HH100T	2		
	C8503,8504	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG	X1100E3	CCUS1H104KCS	2		
	C8505,8506	13405014440AS	CAP,ELECT(50V/100uF)	X1100E3	CCEA1HH101T	2		
	C8507-8510	nsp	CAP,ELECT(50V/10uF)	X1100E3	CCEA1HH100T	4		
	C8511,8512	nsp	CAP,CHIP(1608,50V/39pF,C0G)_SAMSUNG	X1100E3	CCUS1H390JAS	2		
	C8513	nsp	CAP,ELECT(50V/0.1uF)	X1100E3	CCEA1HH0R1T	1		
	C8514-8517	nsp	CAP,ELECT(50V/22uF)	X1100E3	CCEA1HH220T	4		
	C8518,8519	nsp	CAP,CHIP(1608,50V/330pF,C0G)_SAMSUNG	X1100E3	CCUS1H331JAS	2		
	C8520	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG	X1100E3	CCUS1H104KCS	1		
	C8807	nsp	CAP,CHIP(1608,50V/22pF,C0G)_SAMSUNG		CCUS1H220JAS	1		
	C8808,8809	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	2		
	C8810,8811	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	2		
	C8812,8813	13405014440AS	CAP,ELECT(50V/100uF)		CCEA1HH101T	2		
	C8818-8831	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	14		
	OTHER PARTS GROUP							
	BK803	nsp	BRACKET,NETWORKA		CMD1A900	1		
	BK871	nsp	EARTH,HDMI		CMC1A422	1		
	CN701	nsp	WAFER,FFC,SMD(23P-1mm,STRAIGHT)		CJP23GA193ZY	1		
	CN721	nsp	WAFER,FFC,SMD(07P-1mm,STRAIGHT)		CJP07GA193ZY	1		
	CN741	nsp	LOCK-WAFER/STRAIGHT/2.5MMPITCH/5PIN		CJP05GI289ZY	1		
	CN751	nsp	WAFER,FFC1.25mm,STRAIGHT		CJP27GA285ZN	1		
	CN752	nsp	WAFER,FFC,SMD(07P-1mm,STRAIGHT)		CJP07GA193ZY	1		
	CN754	nsp	LOCK-WAFER/STRAIGHT/2MMPITCH/3PIN	X1100E3	CJP03GI288ZY	1		
	CN761	nsp	LOCK-WAFER/STRAIGHT/2MMPITCH/9PIN		CJP09GI288ZY	1		
	CN762	nsp	LOCKINGTYPE,STRAIGHT8PWAFER		CJP08GI288ZY	1		
	CN763	nsp	WAFER,FFC(4P-1mm,ANGLE)		CJP04GB113ZY	1		
	CN801,802	nsp	WAFER,64pin(2x32x1.27mm)SMDTYPE		CJP64GA312ZP	2		
	CN811	nsp	WAFER,FFC,SMD(23P-1mm,STRAIGHT)		CJP23GA193ZY	1		
	CN821	nsp	PINSOCKET(09P,1.25mm,ANGLE,B-TO-B)		CJP09HJ282Z	1		
	CN822	nsp	PINSOCKET(15P,1.25mm,ANGLE,B-TO-B)		CJP15HJ282Z	1		
	CN823	nsp	LOCK-WAFER/STRAIGHT/2.5MMPITCH/7PIN		CJP07GI289ZY	1		
	CW821	nsp	WIREASS'Y(YH)(4P,2MM,80MM,#26)		CWB1B004080LC	1		
	JK701	9436431029205	JACK,HDMI(TYPE-A,SMT-19P,WITHFLANGE)		CJJ9H021Z	1	*	
	JK711	9436431029205	JACK,HDMI(TYPE-A,SMT-19P,WITHFLANGE)		CJJ9H021Z	1	*	
	JK721	9436431029205	JACK,HDMI(TYPE-A,SMT-19P,WITHFLANGE)		CJJ9H021Z	1	*	
	JK731	9436431029205	JACK,HDMI(TYPE-A,SMT-19P,WITHFLANGE)		CJJ9H021Z	1	*	
	JK741	9436431029205	JACK,HDMI(TYPE-A,SMT-19P,WITHFLANGE)		CJJ9H021Z	1	*	
	JK751	9436431029205	JACK,HDMI(TYPE-A,SMT-19P,WITHFLANGE)		CJJ9H021Z	1	*	
	JK771	9436431001705	JACK,1P(ORG),SILVER	E3	CJJ4M043Y	1		
	JK772,773	9432621001505	MODULE,OPTICAL(RX16MHz)		CJSJSR1124	2		
	JK801	9436431024305	JACK,RJ-45W/TRANSFORMER		CJJ9L029Z	1		
	JK811	9436431029205	JACK,HDMI(TYPE-A,SMT-19P,WITHFLANGE)		CJJ9H021Z	1	*	
	JK821	9436431015705	JACK,4P(W/R,W/R),SEPA-GND		CJJ4P048U	1		
	JK822	9436431029405	JACK,RCA2P(B/B)SILVERVERTICAL		CJJ4N110Z	1	*	
	JK851	9436430101505	JACK,2P(W/R),SEPA-GND,SILVER	X1100E3	CJJ4N034U	1		
	JK881	9436431023705	JACK,RCA3P(Y/Y/Y),SILVER		CJJ4S052Z	1		
	L7101-7108	nsp	FERRITECHIPBEAD(2012/220R,CB05YTYH221)		CLZ9R018V	8		
	L7109	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7201-7208	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	8		
	L7301-7308	nsp	FERRITECHIPBEAD(2012/220R,CB05YTYH221)		CLZ9R018V	8		
	L7401-7404	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	4		
	L7406	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7408	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7411	nsp	FERRITECHIPBEAD(2012/220R,CB05YTYH221)		CLZ9R018V	1		
	L7412	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7415	nsp	FERRITECHIPBEAD(2012/220R,CB05YTYH221)		CLZ9R018V	1		
	L7416	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7419	nsp	FERRITECHIPBEAD(2012/220R,CB05YTYH221)		CLZ9R018V	1		
	L7420	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7423	nsp	FERRITECHIPBEAD(2012/220R,CB05YTYH221)		CLZ9R018V	1		
	L7424	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7427	nsp	FERRITECHIPBEAD(2012/220R,CB05YTYH221)		CLZ9R018V	1		
	L7428,7429	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	2		
	L7430	nsp	FERRITECHIPBEAD(2012/220R,CB05YTYH221)		CLZ9R018V	1		
	L7501-7517	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	17		
	L7518	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7519-7524	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	6		
	L7525	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	1		
	L7526,7527	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	L7528-7530	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)	X1100E3	CLZ9R005V	3		
	L7601-7617	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	17		
	L8001-8004	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	4		
	L8007,8008	nsp	COMMONMODEFILTER(2012,90ohm)		CLZ9Z174Z	2		
	L8009,8010	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	2		
	L8101,8102	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	L8201,8202	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	2		
	X7101	943141100720S	X-TAL,SMD3.2X2.5,27.000MHz,10PF		COX27000I100ST	1		
	X7201	943141100600S	X-TAL,SMD3.2X2.5,28.636MHz,12PF		COX28636I120ST	1		
	X7301	943141100720S	X-TAL,SMD3.2X2.5,27.000MHz,10PF		COX27000I100ST	1		
	X7501	943141100930S	X-TAL,HC-49/SSMD,12.000MHz,20PF		COX12000E200ST	1		
	X7701	943141100900S	X-TAL,HC-49/SSMD,24.576MHz,12PF		COX24576E120ST	1		
	X7801	943141101000D	X-TAL,SMD3.2X2.5,21.875MHz,12PF		COX21875I120ST	1		

KDIFF-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 K : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	Q2101,2102	9432115001505	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA	2		
	Q2103	9432135001505	NPN,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSC1845FTA	1		
	Q2104	90M-HT800120R	T.R,BIAS		HVTKTC3114A	7		
	Q2201,2202	9432115001505	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA	2		
	Q2203	9432135001505	NPN,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSC1845FTA	1		
	Q2301,2302	9432115001505	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA	2		
	Q2303	9432135001505	NPN,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSC1845FTA	1		
	Q2401,2402	9432115001505	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA	2		
	Q2403	9432135001505	NPN,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSC1845FTA	1		
	Q2501,2502	9432115001505	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA	2		
	Q2503	9432135001505	NPN,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSC1845FTA	1		
	Q2601,2602	9432115001505	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA	2		
	Q2603	9432135001505	NPN,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSC1845FTA	1		
	Q2701,2702	9432115001505	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA	2		
	Q2703	9432135001505	NPN,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSC1845FTA	1		
	RESISTOR GROUP							
	R2101	nsp	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R2102	nsp	RES,CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R2103	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R2104	nsp	RES,CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R2105	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R2106	nsp	RES,M-OXIDEFILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R2107	nsp	RES,CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R2108	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R2109	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R2110	nsp	RES,M-OXIDEFILM(1W/47ohm)		CRG1SANJ470RT	1		
	R2201	nsp	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R2202	nsp	RES,CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R2203	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R2204	nsp	RES,CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R2205	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R2206	nsp	RES,M-OXIDEFILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R2207	nsp	RES,CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R2208	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R2209	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R2210	nsp	RES,M-OXIDEFILM(1W/47ohm)		CRG1SANJ470RT	1		
	R2301	nsp	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R2302	nsp	RES,CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R2303	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R2304	nsp	RES,CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R2305	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R2306	nsp	RES,M-OXIDEFILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R2307	nsp	RES,CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R2308	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R2309	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R2310	nsp	RES,M-OXIDEFILM(1W/47ohm)		CRG1SANJ470RT	1		
	R2401	nsp	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R2402	nsp	RES,CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R2403	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R2404	nsp	RES,CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R2405	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R2406	nsp	RES,M-OXIDEFILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R2407	nsp	RES,CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R2408	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R2409	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R2410	nsp	RES,M-OXIDEFILM(1W/47ohm)		CRG1SANJ470RT	1		
	R2501	nsp	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R2502	nsp	RES,CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R2503	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R2504	nsp	RES,CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R2505	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R2506	nsp	RES,M-OXIDEFILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R2507	nsp	RES,CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R2508	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R2509	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R2510	nsp	RES,M-OXIDEFILM(1W/47ohm)		CRG1SANJ470RT	1		
	R2601	nsp	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R2602	nsp	RES,CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R2603	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R2604	nsp	RES,CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R2605	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R2606	nsp	RES,M-OXIDEFILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R2607	nsp	RES,CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R2608	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R2609	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R2610	nsp	RES,M-OXIDEFILM(1W/47ohm)		CRG1SANJ470RT	1		
	R2701	nsp	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R2702	nsp	RES,CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R2703	nsp	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R2704	nsp	RES,CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R2705	nsp	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R2706	nsp	RES,M-OXIDEFILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R2707	nsp	RES,CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R2708	nsp	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R2709	nsp	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R2710	nsp	RES,M-OXIDEFILM(1W/47ohm)		CRG1SANJ470RT	1		
	CAPACIITORS GROUP							
	C2101	9431345000705	CAP,ELECT(100V/10uF)		CCEA2AH100T	1		
	C2102	nsp	CAP,MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C2103	nsp	CAP,CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C2104	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C2105	9431345017705	CAP,ELECT(50V/220uF)		CCEA1HH221T	1		
	C2106	nsp	CAP,CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C2201	9431345000705	CAP,ELECT(100V/10uF)		CCEA2AH100T	1		
	C2202	nsp	CAP,MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C2203	nsp	CAP,CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C2204	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C2205	9431345017705	CAP,ELECT(50V/220uF)		CCEA1HH221T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C2206	nsp	CAP,CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C2301	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	1		
	C2302	nsp	CAP,MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C2303	nsp	CAP,CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C2304	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C2305	943134501770S	CAP,ELECT(50V/220uF)		CCEA1HH221T	1		
	C2306	nsp	CAP,CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C2401	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	1		
	C2402	nsp	CAP,MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C2403	nsp	CAP,CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C2404	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C2405	943134501770S	CAP,ELECT(50V/220uF)		CCEA1HH221T	1		
	C2406	nsp	CAP,CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C2501	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	1		
	C2502	nsp	CAP,MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C2503	nsp	CAP,CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C2504	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C2505	943134501770S	CAP,ELECT(50V/220uF)		CCEA1HH221T	1		
	C2506	nsp	CAP,CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C2601	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	1		
	C2602	nsp	CAP,MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C2603	nsp	CAP,CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C2604	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C2605	943134501770S	CAP,ELECT(50V/220uF)		CCEA1HH221T	1		
	C2606	nsp	CAP,CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C2701	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T	1		
	C2702	nsp	CAP,MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C2703	nsp	CAP,CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C2704	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C2705	943134501770S	CAP,ELECT(50V/220uF)		CCEA1HH221T	1		
	C2706	nsp	CAP,CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C2800	nsp	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	OTHER PARTS GROUP							
	BK201	nsp	BRACKET,PCB		CMD1A569-V1	1		
	BK202	nsp	BRACKET,PCB		CMD1A387-V1	1		
	BK203	nsp	BRACKET,PCB		CMD1A569-V1	1		
	BK204	nsp	BRACKET,PCB		CMD1A387-V1	1		
	BN51A	nsp	WIREASS'YLocking(YH)(3P,2MM,50MM,#24)		CWB4C003050CC	1		
	CN201	nsp	PINHEADER(15P,1.25mm,STRAIGHT,B-TO-B)		CJP15GI281Z	1		
	CN51A-57	nsp	PINSOCKET(07P,1.25mm,ANGLE,B-TO-B)		CJP07HJ282Z	7		

ADAPTER 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 K : Japan model
BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	SEMICONDUCTORS GROUP							
	IC911	943239101090S	I.C,Highsideswitch(TSSOP-B8)		CVIBD82065FVJ-E2	1		
	IC912	943231101890S	I.C,LDOREGULATOR(HTSOP-J8)		CVIBD00HA3WEFJ-E	1	*	
	IC921	943639101380D	MODULE,BLUETOOTH,CLASS2,IBT-06-02		CNVIBT-06-02	1		Ver.2
	IC922	00MHC012405KY	I.C,INVERTER(SON5-P-0.50)		CVITC7SGU04FE	1		
	RESISTOR GROUP							
	R9102,9103	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
	R9106	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9107-9112	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	6		
	R9113	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9114	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R9116	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
	R9119	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9120	nsp	RES,CHIP(1608/5%/39Kohm)		CRJ10DJ393T	1		
	R9121	nsp	RES,CHIP(1608/5%/11Kohm)		CRJ10DJ113T	1		
	R9122,9123	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R9124,9125	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
	R9127	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
	R9132,9133	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
	R9201	nsp	RES,CHIP(1608/5%/10Mohm)		CRJ10DJ106T	1		
	R9202	nsp	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1		
	R9203,9204	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
	R9205	nsp	RES,CHIP(1608/5%/10Mohm)		CRJ10DJ106T	1		
	R9206,9207	nsp	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T	2		
	RN911	nsp	RES,CHIP(1005/5%/0ohm*4)		CRJ064IJ0R0T	1		
	RN913	nsp	RES,CHIP(1005/5%/0ohm*4)		CRJ064IJ0R0T	1		
	RN915	nsp	RES,CHIP(1005/5%/0ohm*4)		CRJ064IJ0R0T	1		
	CAPACIITORS GROUP							
	C9105,9106	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	2		
	C9107-9110	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	4		
	C9111,9112	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	2		
	C9113	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)_SAMSUNG		CCUC0J106KCS	1		
	C9114-9117	nsp	CAP,CHIP(1608,50V/0.1uF,X7R)_SAMSUNG		CCUS1H104KCS	4		
	C9201,9202	nsp	CAP,CHIP(1608,10V/1uF,X7R,X7S)_SAMSUNG		CCUS1A105KCS	2		
	C9203-9205	nsp	CAP,CHIP(1005,16V/0.1uF,X7R)_SAMSUNG		CCUI1C104KCS	3		
	C9206,9207	nsp	CAP,CHIP(1608,50V/10pF,C0G)_SAMSUNG		CCUS1H100JAS	2		
	OTHER PARTS GROUP							
	BK911,912	nsp	BRACKET,NETWORKB		CMD1A902	2		
	BN921	nsp	WIREASS'YLocking(YH)(11P,2MM,350MM,#26)		CWB7B011350HC00	1		
	CN911	nsp	WAFER,120PINH=4.5mmp=0.5mm		CJP120GA313ZR	1		
	CN912,913	nsp	WAFER,64pin(2x32x1.27mm)FEMALESMDTYPE		CJP64GA314ZP	2		
	CN914	nsp	WAFER,SMTRIGHTANGLE(5P,2.0MMPITCH)		CJP05GB220ZY	1		
	CN915	nsp	WAFER,SMTRIGHTANGLE		CJP04GB220ZY	1		
	CN916	nsp	LOCK-WAFER/STRAIGHT/2MMPITCH/11PIN		CJP11GI288ZY	1		
	L9101-9114	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	14		
	L9201,9202	nsp	FERRITECHIPBEAD(1608/60R,CB03YTYH600)		CLZ9R005V	2		
	X9201	943141101200S	X-TAL,SMD3.2X2.5,32.768KHz,7PF		COX00032I070ST	1	*	

EXPLODE

※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 K : Japan model

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	P17	9U6391014500D	DIGITAL PCB ASSY (E3)	X1100E3	COP12617C	1	*	
	P17	9U6391014600D	DIGITAL PCB ASSY (E2/E1)	E2/E1	COP12617D	1	*	
	P17	9U6391014700D	DIGITAL PCB ASSY (E1C)	E1C	COP12617F	1	*	
	P17	9U6391014800D	DIGITAL PCB ASSY (JP)	K	COP12617E	1	*	
	P17	9U6391014400D	DIGITAL PCB ASSY (S700W)	S700	COP12617B	1	*	
	└P6	-	FRONT_HDMI PCB		COP12617C	1	*	
	P19	943189100770D	CX870 MODULE ASSY (E3)	X1100E3	COP12712C	1	*	Ver.3
	P19	943189100780D	CX870 MODULE ASSY (E2/E1)	E2/E1	COP12712D	1	*	Ver.3
	P19	943189100790D	CX870 MODULE ASSY (E1C)	E1C	COP12712F	1	*	Ver.3
	P19	943189100800D	CX870 MODULE ASSY (JP)	K	COP12712E	1	*	Ver.3
	P19	943189100760D	CX870 MODULE ASSY (S700S)	S700W	COP12712B	1	*	Ver.3
	P1	nsp	FRONT PCB		COP12619	1	*	
	├P2	nsp	ENCODER&POWER PCB		COP12619	1	*	
	├P3	nsp	PHONE PCB		COP12619	1	*	
	├P4	nsp	iPODUSB_MIC PCB		COP12619	1	*	
	└P5	nsp	HDMI_FFC_CABLE PCB		COP12619	1	*	
	P15	nsp	REGULATOR PCB		COP12615C	1	*	
	└P14	nsp	SMPS PCB		COP12615C	1	*	
	P18	943639101460D	ADAPTER PCB		COP12648B	1	*	
	└P7	-	BLUETOOTH PCB		COP12648B	1	*	Ver.2
	P16	nsp	DIFF-AMP PCB		COP12618B	1	*	
	└P12	nsp	BAIS TR PCB		COP12618B	7	*	
	P8	nsp	MAIN PCB		COP12616B	1	*	
	├P9	nsp	HDMI CABLE GUIDE		COP12616	1	*	
	├P10	nsp	FRONT CABLE GUIDE		COP12616	1	*	
	├P11	nsp	BT WIRE GUIDE		COP12616	1	*	
	├P13	nsp	TEMP_DETECT PCB		COP12616B	1	*	
	├P20	nsp	TUNER PCB		COP12616B	1	*	
	└P22	nsp	PHONE WIRE GUIDE		COP12619C	1	*	
!	P21	943101102410D	POWER TRANS (E3)	E3	CLT5U057ZU	1	*	
!	P21	943101102420D	POWER TRANS (E2/E1)	E2/E1	CLT5U057ZE	1	*	
!	P21	943101102430D	POWER TRANS (E1C)	E1C	CLT5U057ZH	1	*	
!	P21	943101102440D	POWER TRANS (JP)	JP	CLT5U057ZJ	1	*	
	RT01	00MYJ04002640	RECEPTACLE,AC(15A/250V,R-301,B21)		CJJ8A006ZW	1		
	F1	943412100710D	KNOB,VOLUME	BK	CBN1A263	1		
	F1	943412100720D	KNOB,VOLUME	SP	CBN1A263C73	1		
	F2	943446100590D	PLATE,VOLUMEKNOB		CGX1A469	1		
	F3	943412101070D	KNOB,SELECT	BK	CBN1A274	1		
	F3	943412101080D	KNOB,SELECT	SP	CBN1A274C73	1		Ver.2
	F4	943446100760D	PLATE,SELECTKNOB		CGX1A481	1		
	F5	943419100830D	PANEL SUB (E3/JP)	X1100E3/K	CGR1A577R12ZH70	1	*	
	F5	943419100840D	PANEL SUB (E2/E1/BKE1C)BK	E2/E1/E1C	CGR1A577R12YH70	1	*	
	F5	943419100850D	PANEL SUB (E1C)SP	SP	CGR1A577R12X	1	*	
	F5	943419100820D	PANEL SUB (S700W)	S700	CGR1A568R12ZH70	1	*	
	F6	943416101290D	WINDOW (E3/JP)	X1100E3/K	CGU1A462R	1	*	
	F6	943416101300D	WINDOW (E2/E1/E1C)	E2/E1/E1C	CGU1A462S	1	*	
	F6	943416101280D	WINDOW (S700W)	S700	CGU1A462Q	1	*	
	F7	42141003400AD	BADGE,DENON	X1100E3/K	CGB1A275Z	1		
	F7	42141002400AD	BADGE,DENON	E2/E1/BKE1C/S700	CGB1A254Z-V1	1		
	F7	42141002401AD	BADGE,DENON	SPE1C	CGB1A254Y-V1	1		
	F8	943402104540D	PANEL FRONT (E3)	X1100E3	CGW1A552RHZH70	1	*	
	F8	943402104550D	PANEL FRONT (E2/E1/E1C)BK	E2/E1/BKE1C	CGW1A553RHYH70	1	*	
	F8	943402104560D	PANEL FRONT (E1C) SP	SPE1C	CGW1A553RGXG45	1	*	
	F8	943402104570D	PANEL FRONT (JP)	K	CGW1A553RHZH70	1	*	
	F8	943402104530D	PANEL FRONT (S700W)	S700	CGW1A553RHWH70	1	*	
	F9	943411101750D	BUTTON,POWER	BK	CBT1A1167	1		
	F9	943411101760D	BUTTON,POWER	SP	CBT1A1167C73	1		
	F10	943423100510D	INDICATOR,POWER		CGL1A299A36	1	*	
	F11	943411101770D	BUTTON,10KEY		CBT2A1164	1		
	F12	nsp	EARTHPLATE,HDMI		CMC1A431	1		
	F13	nsp	EARTHPLATE,USB		CMC1A430	1		
	F14	42131003300AD	BADGE,INCOMMAND	X1100E3	CGB1A276Z	1	*	
	F15	943411103210D	BUTTON,NETWORK	S700	CBT1A1194	1	*	
	F16	943411103220D	BUTTON,SOURCE	S700	CBT1A1195	1	*	
	M1	nsp	CHASSIS,BOTTOM		CUA3A335	1	*	
	M2	nsp	RUBBER		CHG1A113	1		
	M3	nsp	LABEL,BOTTOM		CQB1A1243	1	*	
	M4	943407100020D	FOOT		CKL1A190	4		
	M5	nsp	CUSHION,FOOT		CHG2A289	4		
	M6	nsp	HEATSINKMAIN		CMY1A408	1	*	
	M7	nsp	HOLDER,PCB		CHE170	2		
	M8	nsp	SMPSBRACKET		CMD1A790	1		
	M9	nsp	PANEL,REAR	X1100E3	CKF1A480Z	1	*	
	M9	nsp	PANEL,REAR	E2/E1	CKF2A480Y	1	*	
	M9	nsp	PANEL,REAR	E1C	CKF3A480X	1	*	
	M9	nsp	PANEL,REAR	K	CKF3A480W	1	*	
	M9	nsp	PANEL,REAR	S700	CKF4A480V	1	*	
	M10	nsp	BUSHING,ACCORD	E1C/K/S700	CHR1A028	1		
	M11	963419100930S	SUPPORTER,WIFI ANT		CMH1A360	2	*	Ver.3
	M12	963419100910S	BUSH,WIFI ANT		CMH1A357	2	*	Ver.3
	M13	963419100920S	HOLDER,WIFI ANT		CMH1A358	2	*	Ver.3
	M14-1	963116100530S	WIFI ANT(L)		-	1	*	
	M14-2	963116100540S	WIFI ANT(R)		-	1	*	
	M15	943403100570D	CABINET,TOP	BK	CKC1A215K117	1		
	M15	943403100580D	CABINET,TOP	SP	CKC1A215D11	1		
	★	943606502470S	CARDCABLE(1.0mm,23P,230mm,Btype,105'C)		CWC5F4A23A230B0	1	*	
	★	943606502480S	CARDCABLE(1.25mm,27P,170mm,Btype,105'C,Shield		CWC5C4A27B170B1	1	*	
	S1	nsp	SCREW		CTB3+6JR	14		
	S2	nsp	SCREW		CTB3+6FR	9		
	S3	nsp	SCREW		CTBD3+6FFZR	13		
	S4	nsp	SCREW		CTB3+8JR	24		
	S5	nsp	SCREW	BK	CTB3+8JFZR	7		
	S5	nsp	SCREW	SP	CTB3+8JFN	7		
	S6	nsp	SCREW		CTBD3+8JFZR	22		
	S7	nsp	SCREW		CTW3+8JR	11		
	S8	nsp	SCREW		CTW3+12JR	2		
	S9	nsp	SCREW	BK	CTBD4+8JFZR	6		
	S9	nsp	SCREW	SP	CTBD4+8JFN	6		
	S10	nsp	SCREW,TRANS		CHDR1A023R	4		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	S11	nsp	SCREW,SPECIAL		CHD4A012R	3		
	S12	nsp	SCREW,SPECIAL		CHD1A012ZR	14		
	S13	nsp	SCREW		CTWS3+10GR	1		
	S14	nsp	SCREW,SPECIAL		CHD3A012R	7		
	★	nsp	BRACKET,PCBR		CMD1A812	1		
	★	nsp	LABEL,POP	S700WE3	CQB1A1249Z	1	*	
	★	nsp	LABEL,POP	X1100WE3	CQB1A1250Z	1	*	
	★	nsp	LABEL,POP	E2	CQB1A1251Z	1	*	
	★	nsp	LABEL,POP	E1	CQB1A1252Z	1	*	
	★	nsp	LABEL,POP	E1C	CQB1A1253Z	1	*	
	★	nsp	LABEL,POP	K	CQB1A1254Z	1	*	
	★	nsp	LABEL,SPOTIFY	E3/E2/E1	CQB1A1299Z	1	*	
	★	nsp	BRACKET,H/SPCB		CMD1A802	1		
	★	nsp	ORNAMENT,REAR PANEL		CGX1A487Z	1		

PACKING

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

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

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

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

BK : Black model SP : Premium Silver model

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	1	nsp	POLYSHEET		CPB1A213	1		
!	2	943611500590S	POWERCORD(USAPLUG+SOCKETWHITEBANDING)	E3	CJA2A119Y	1		
!	2	90M-ZC000320R	POWERCORD(EURPLUG+SOCKETWHITEBANDING)	E2/E1	CJA2B054Y	1		
!	2	90M-YC000850R	POWERCORD(CHINACONNECTORTYPEWHITEBANDING)	E1C	CJA2N047WA	1		
!	2	943611006710S	POWERCORD(JAPANCONNECTORTYPEWHITEBANDING)	K	CJA2J049WA	1		
!	2	90M-YC000780R	POWERCORD(USACONNECTORTYPE,WHITEBANDING)	S700	CJA523FBWA	1		
	3	943533102470D	PAD SNOW (TOP)		CPS1A983	1	*	
	4	943533102480D	PAD SNOW (BOTTOM)		CPS1A984	1	*	
	5	nsp	INSTRUCTION MANUAL ASS'Y		-	-		
	5-1	nsp	BAG,POLY	X1100	CPB1A216Z	1		
	5-1	nsp	BAG,POLY(MANUAL)	S700	CPB1A197Z	1		
	5-2	nsp	SHEET,NOTEONRADIO		CQE1A676Z	1	*	
	5-3	nsp	SHEET,SAFTY	E3	CQE1A574Z	1	*	
	5-3	nsp	SHEET /SAFTY	E2/E1	CQE1A575Z	1	*	
	5-3	nsp	SHEET /SAFTY	E1C	CQE1A618Z	1	*	
	5-3	nsp	SHEET /SAFTY	K	CQE1A578Z	1		
	5-4	nsp	SHEET /SERVICE	K	CQE1A196N	1		
	5-5	nsp	CARD,WARRANTY	E3	CQE1A224N	1		
	5-6	nsp	SHEET,INSERTION	E3	CQE1A559Z	1		
	5-6	54111118204AD	GETTING STARTED (S700W)	S700	CQX1A1808Z	1	*	
	5-7	943543104010D	LABEL,SPEAKER		CQB1A1258Z	1	*	
	5-8	943116100170D	FM1POLEANT(ULTYPE)		CSA1A044Z	1		
	5-9	963116100070S	ANT,AMLOOP(9.5uH/5T)		CSA1A039Y	1		
	5-10	nsp	ChinaTunerIsolator,SGLBF-6B	E1C	CLR9Z001Z	1		
	6	nsp	MANUAL ASS'Y	X1100	-			
	6-1	nsp	BAG,ZIPPERPOLY(A5)	X1100	CPB1A227Z	1		
	6-2	35201033600AD	INSTRUCTION MANUAL (E3)	X1100E3	CFT1A121ZA	1		
	6-2	35201033601AD	INSTRUCTION MANUAL (E2/E1)	E1/E2	CFT1A122ZA	1		
	6-2	35201033602AD	INSTRUCTION MANUAL (E1C)	E1C	CFT1A123ZA	1		
	6-2	35201033603AD	INSTRUCTION MANUAL (JP)	K	CFT1A124ZA	1		
	6-3	54111118200AD	GETTING STARTED (E3)	X1100E3	CQX1A1804Z	1		
	6-3	54111118201AD	GETTING STARTED (E2/E1)	E1/E2	CQX1A1805Z	1		
	6-3	54111118202AD	GETTING STARTED (E1C)	E1C	CQX1A1806Z	1		
	6-3	54111118203AD	GETTING STARTED (JP)	K	CQX1A1807Z	1		
	7	30701016700AD	REMOCON (RC-1189)		CARTAVRX1100W	1		
	8	nsp	BATTERY,AAA2PCSINPACK		CABR03PPB	2		
	9	32401000800AD	MIC,AUDYSSEY		CJXACM1HB	1		
	10	963549101000D	MICSTANDASS'Y		CPG1A1021ZA	1		
	11	53121050800AM	BOX-GIFT(E3)	E3	CPG1A1014Z	1	*	
	11	53121050900AM	BOX-GIFT(E2)	E2	CPG1A1014X	1	*	
	11	53121051000AM	BOX-GIFT(E1)	E1	CPG1A1022Z	1	*	
	11	53121051100AM	BOX-GIFT(E1C)	E1C	CPG1A1014Y	1	*	
	11	53121051200AM	BOX-GIFT(JP)	K	CPG1A1014W	1	*	
	11	53121042500AM	BOX-GIFT(S700W)	S700	CPG1A1014V	1	*	
	12	nsp	CONTROL,LABEL		CQB1A993Z	1		
	13	nsp	LABEL /WHITE M1 SG	SP	CQB1A908Z	2		
	14	nsp	CARD,WARRANTY	E1C,K	CQE1A473W	1		
	★	nsp	LABEL,AMANTENNA		CQB1A1240Z	1		
	★	nsp	LABEL,FMANTENNA		CQB1A1241Z	1		
	★	nsp	LABEL,MIC		CQB1A1242Z	1		