DENON

Ver. 1

SERVICE MANUAL

MODEL	JP	E3	E2	E1	EK	EA	E1C	E1K
AVR-E300		✓						
AVR-X1000		✓	✓	✓			✓	
AVR-X1010							✓	

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.

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ABOUT THIS MANUAL

Read the following information before using the service manual.

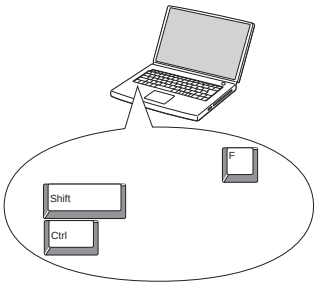
What you can do with this manual

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

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

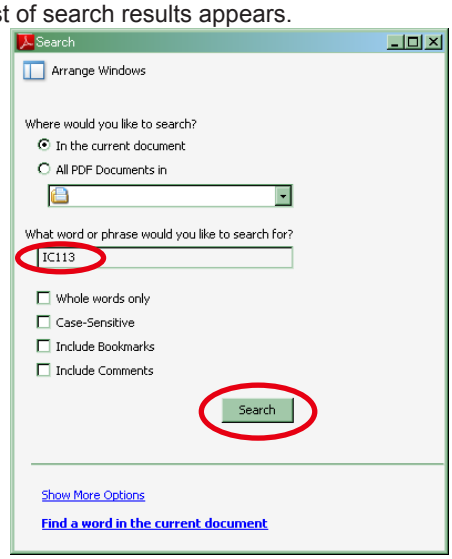
1.Press **Ctrl+Shift+F** on the keyboard.

- 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.



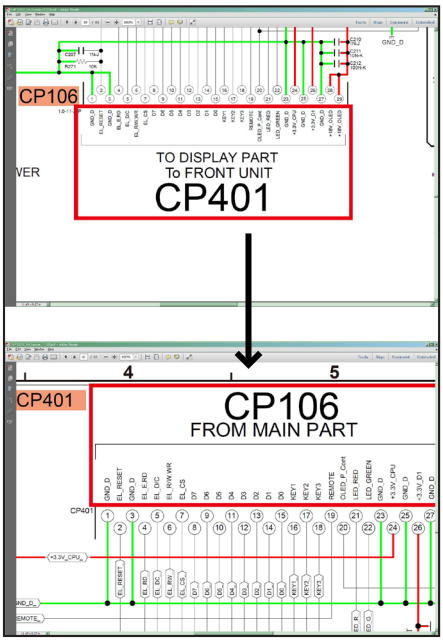
3.Click an item on the list.

• 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.

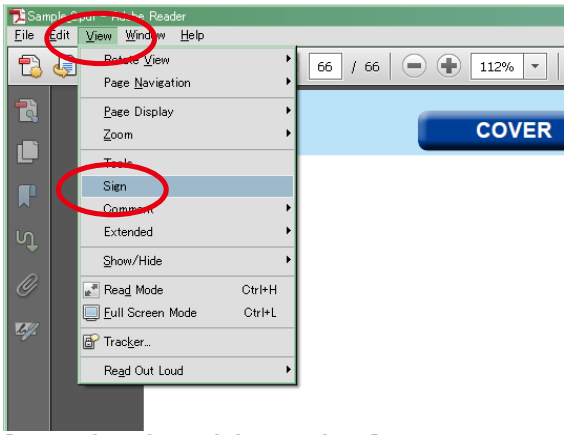
Using Adobe Reader (Windows version)

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.



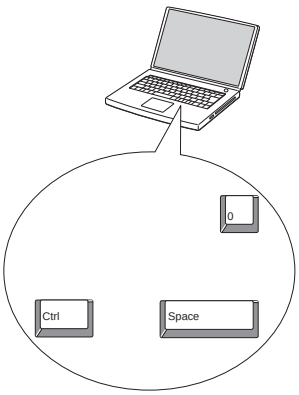
[Example using Adobe Reader 9]
On the **"Document"** menu, click **"Sign"**.

Magnify schematic / printed wiring board diagrams - 1

(Ctrl+Space, mouse operation)

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

- The selected area is magnified.

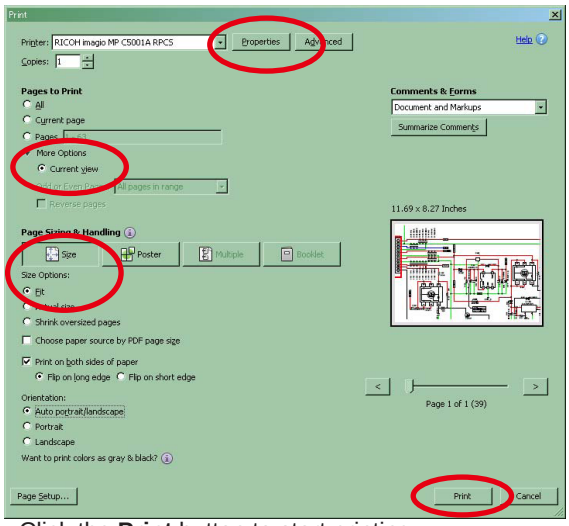


- When you want to move the area shown, hold down **Space** and drag the mouse.
- When you want to show a full page view, press **Ctrl+0** on the keyboard.

Print a magnified part of the manual

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

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



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

- **Properties**

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

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

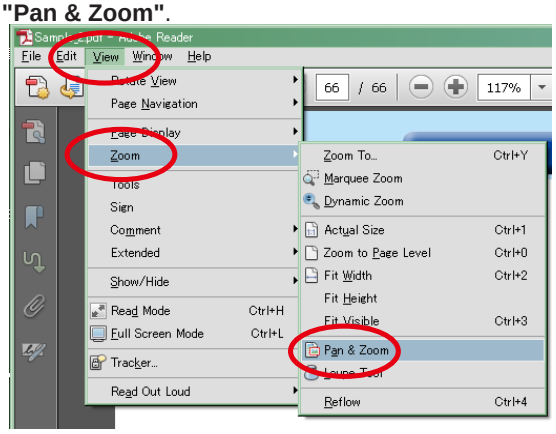
  Select the following checkbox.
  "**Size**" / "**Size Options**" : "**Fit**"

Magnify schematic / printed wiring board diagrams - 2

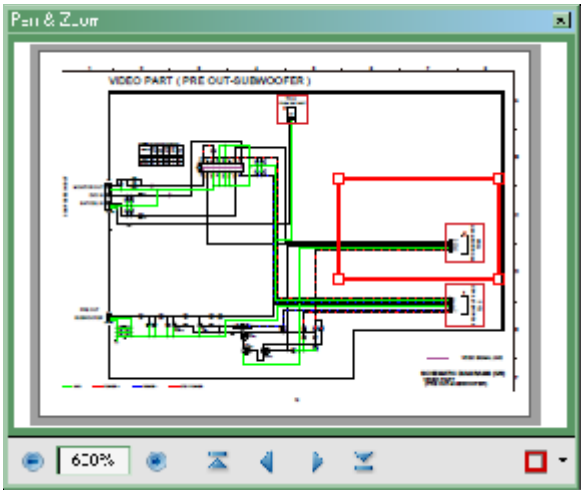
(Pan & Zoom function)

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.



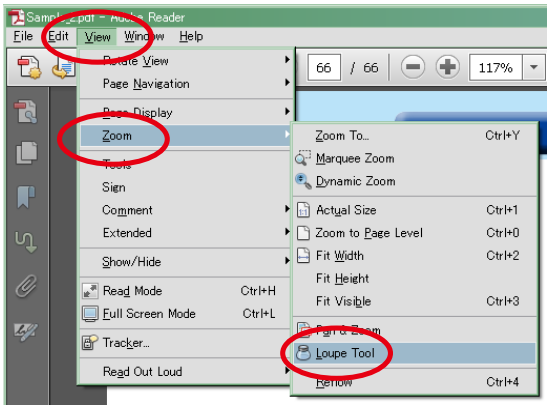
[Example using Adobe Reader 9]
On the **"Tools"** menu, point to **"Select & Zoom"**, and then click **"Pan & Zoom Window"**.

Magnify schematic / printed wiring board diagrams - 3

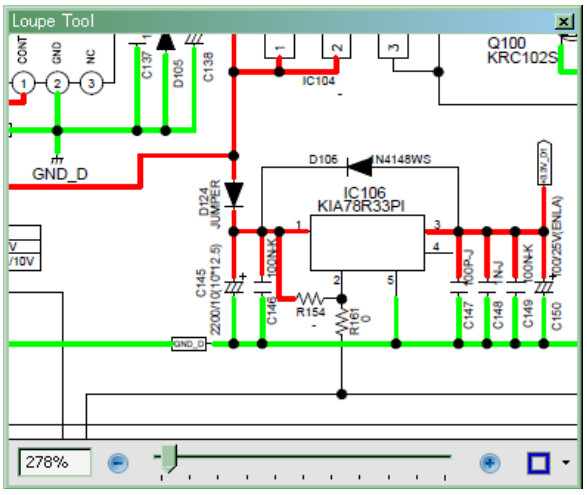
(Loupe Tool function)

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

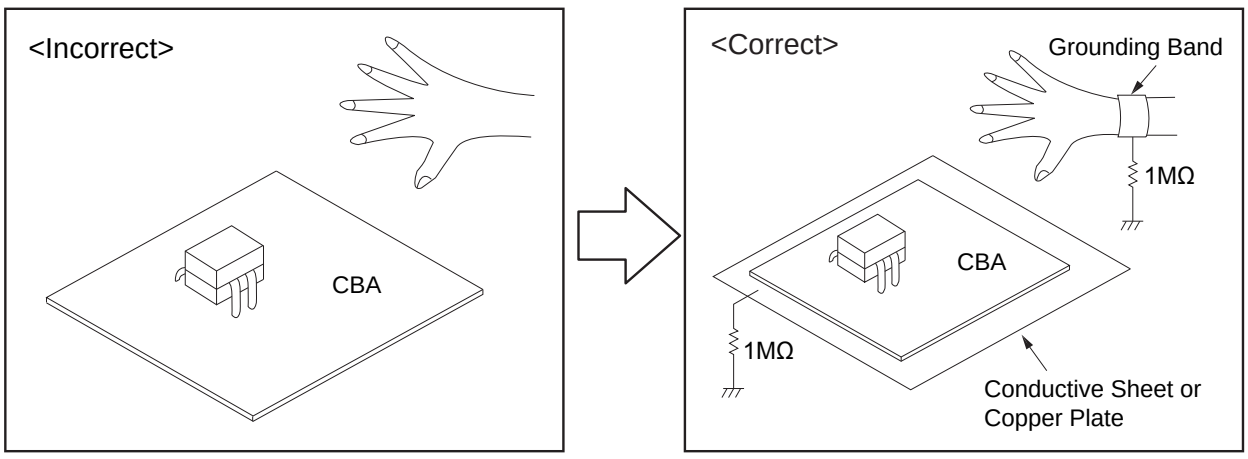
1. Parts indicated by "nsp" on this table cannot be supplied.
2. When ordering a part, make a clear distinction between "1" and "I" (i) to avoid mis-supplying.
3. A part ordered without specifying its part number can not be supplied.
4. Part indicated by "★" mark is not illustrated in the exploded view.
5. General-purpose Carbon Film Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
6. General-purpose Carbon Chip Resistors are not included are not included in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

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



TECHNICAL SPECIFICATIONS

❑ Audio Section

- **Power amplifier**

Rated output :

Front : (for AVR-E300)
75 W + 75 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)
120 W + 120 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Front : (for AVR-X1000/1010)
80 W + 80 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)
120 W + 120 W (6 Ω, 1 kHz with 0.7 % T.H.D.)
135 W + 135 W (6Ω, JEITA)

Center : (for AVR-E300)
75 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)
120 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Center : (for AVR-X1000/1010)
80 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)
120 W (6 Ω, 1 kHz with 0.7 % T.H.D.)
135 W (6Ω, JEITA)

Surround : (for AVR-E300)
75 W + 75 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)
120 W + 120 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Surround : (for AVR-X1000/1010)
80 W + 80 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)
120 W + 120 W (6 Ω, 1 kHz with 0.7 % T.H.D.)
135 W + 135 W (6Ω, JEITA)

Output connectors : 6 – 16 Ω

- **Analog**

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

- **Standard video connectors**

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

❑ Tuner section

[FM](Note: µV at 75 Ω, 0 dBf = 1 x 10^{-15} W)
Receiving Range (for E3) :
[FM] 87.5 MHz – 107.9 MHz
Receiving Range (for E2/E1C) :
[FM] 87.5 MHz – 108.0 MHz
Usable Sensitivity :
[FM]1.2 µV (12.8 dBf)
50 dB Quieting Sensitivity :
[FM]MONO 2.8 µV (20.2 dBf)
S/N (IHF-A) :
[FM]MONO 70 dB (IHF–A weighted, DIRECT mode)
STEREO 67 dB (IHF–A weighted, DIRECT mode)
Total harmonic Distortion (at 1 kHz) :
[FM]MONO 0.7 %
STEREO 1.0 %

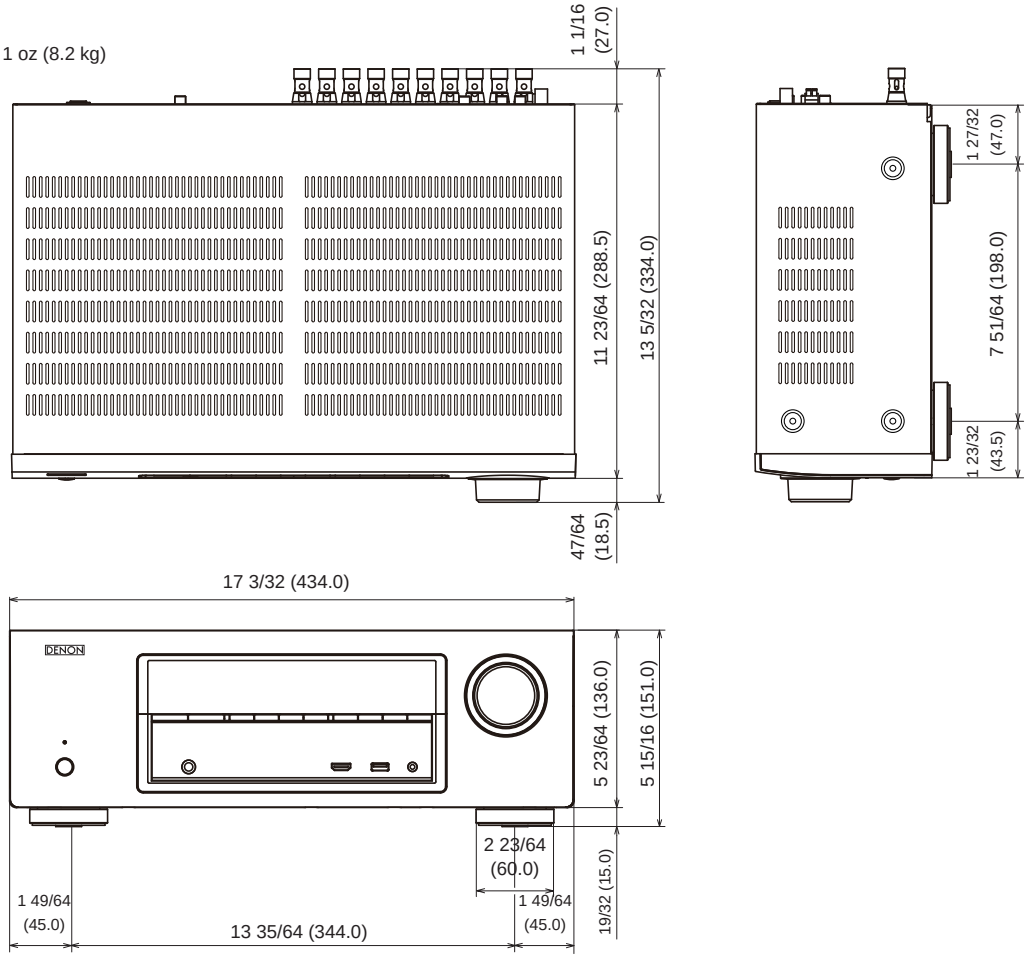
❑ General

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

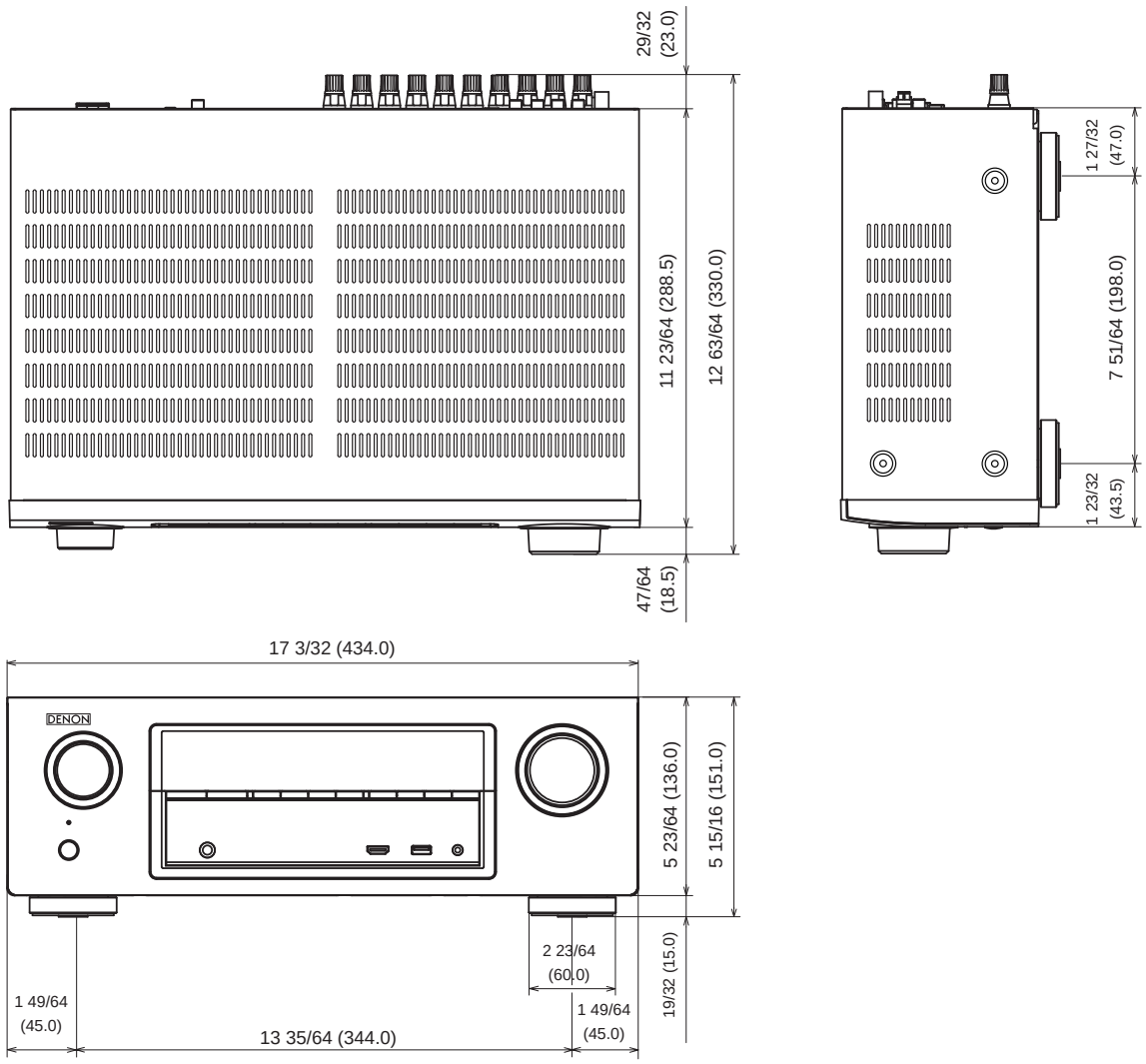
Power consumption : 360 W (for AVR-E300)
390 W (for AVR-X1000/1010)
0.1 W (Standby)

DIMENSION

AVR-E300
Unit : in. (mm)
Weight : 18 lbs 1 oz (8.2 kg)



AVR-X1000/1010
Unit : in. (mm)
Weight : 18 lbs 1 oz (8.2 kg)



CAUTION IN SERVICING

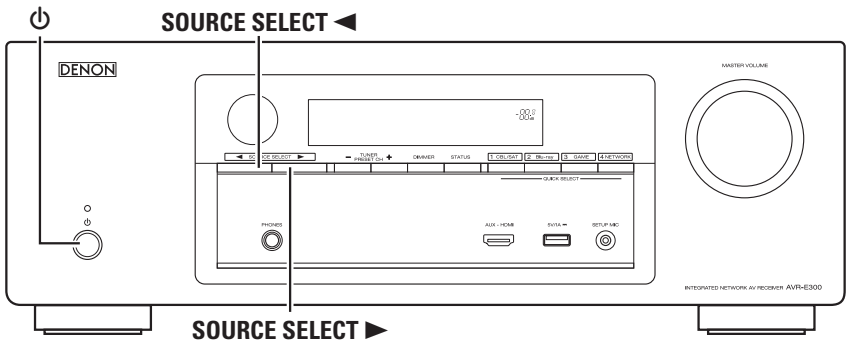
Initializing INTEGRATED NETWORK AV RECEIVER

INTEGRATED NETWORK AV RECEIVER initialization should be performed when the µcom, peripheral parts of µcom, and Digital P.W.B. were replaced.

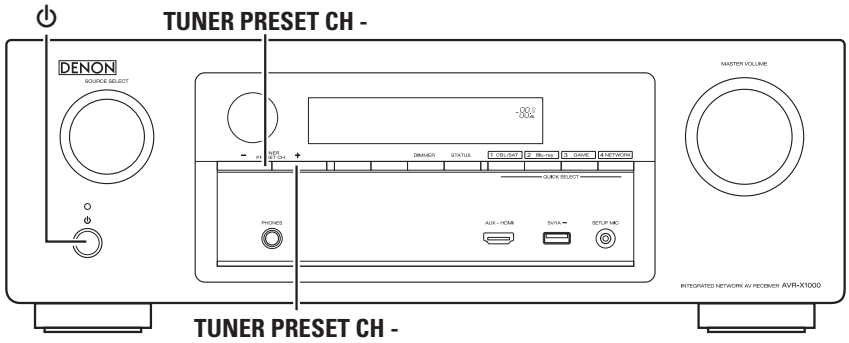
1. Turn off the power pressing ⏻ button.
2. Press ⏻ button while simultaneously while pressing
   "TUNER PRESET CH -" and "TUNER PRESET CH +" buttons for AVR-E300.
   ("SOURCE SELECT ◄" and "SOURCE SELECT ►" button for AVR-X1000)
3. Check that the entire display is flashing at intervals of about 1 second, and then release the 2 buttons.
   The microprocessor will be initialized.

Note: • If step 3 fails, start over from step 1.
• All user settings will be lost and the factory setting will be recovered after the set is initialized.
So make sure to note down your setting beforehand for restoring after the initialization.

[AVR-E300E3 model]



[AVR-X1000 model]



Service Jig

When you repair the printing board, you can use the following JIG (Extension cable kit).
Please order it from Denon Official Service Distributor in your region if necessary.

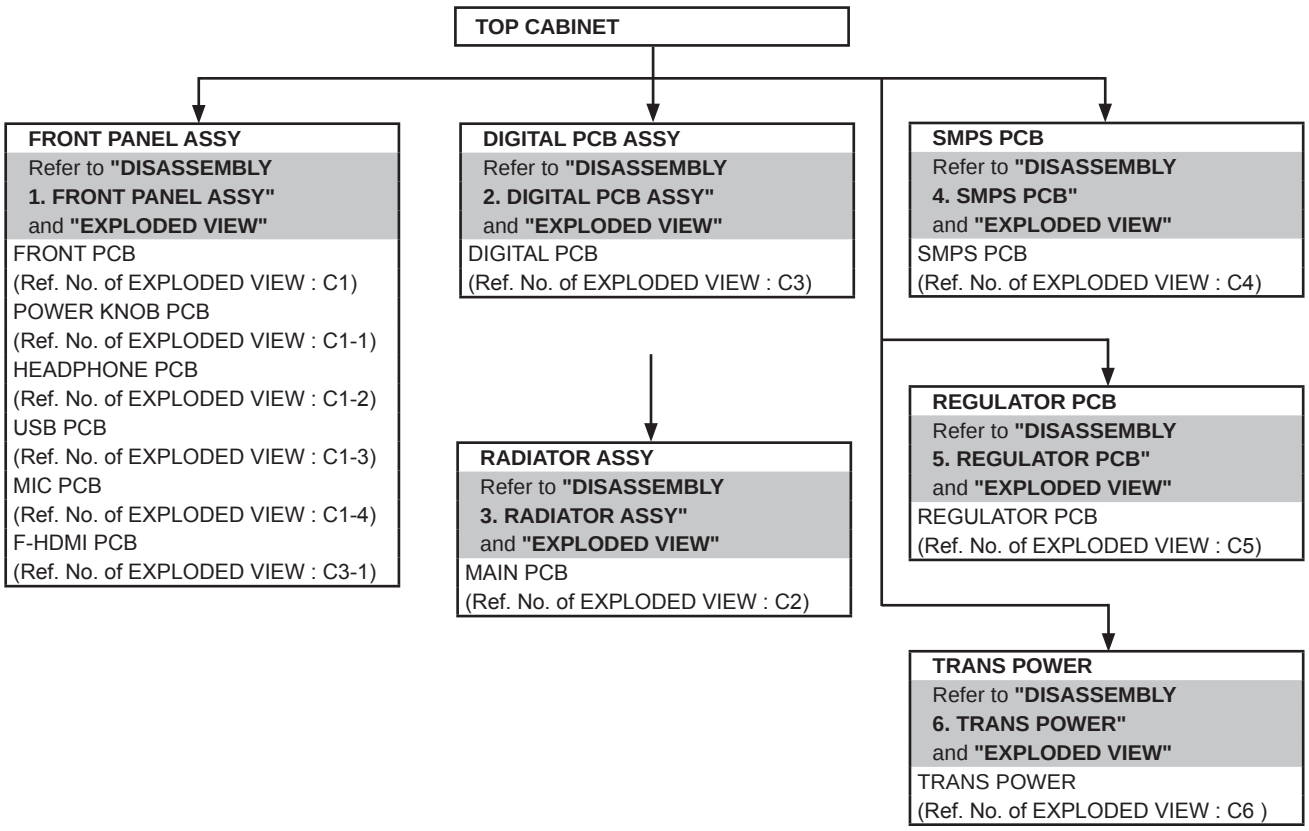
8U-110084S : EXTENSION UNIT KIT : 1 Set

When you update the firmware by DFW, you can use the following JIG (RS232C to internal connector conversion adapter with 4P FFC cable kit).
Please order to Denon Official Service Distributor in your region if necessary.

8U-210100S : WRITING KIT : 1 Set
(Refer to 44 page.)

DISASSEMBLY

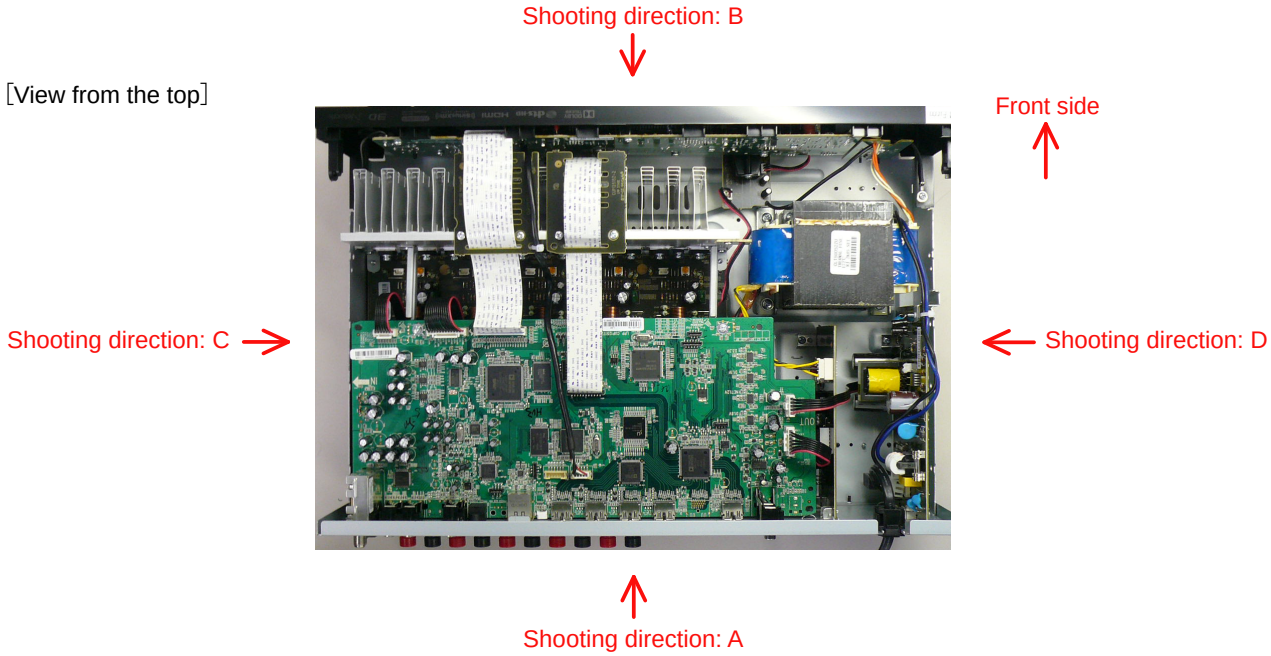
- Disassemble in order of the arrow in the following figure.
- In the case of the re-assembling, assemble it in order of the reverse of the following flow.
- In the case of the reassembling, observe "Caution concerning disassembly and assembly!".
- If wire bundles are untied or moved to perform adjustment or replace parts etc., be sure to rearrange them neatly as they were originally bundled or placed afterward.
  Otherwise, incorrect arrangement can be a cause of noise generation.



bout the photos used for "descriptions of the DISASSEMBLY" section

- The shooting direction of each photograph used herein is indicated on the left side of the respective photograph as "Shooting direction: ***". (*** : A,B,C,D)
- Refer to the diagram below about the shooting direction of each photograph.
- Photographs with no shooting direction indicated were taken from the top of the set.
- The photograph is AVR-E400 model.

The viewpoint of each photograph (Shooting direction)



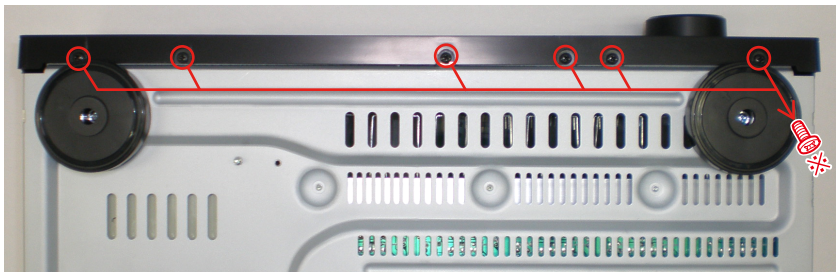
Note: • Before disassembling this unit, be sure to discharge the power line (the colored line in the schematic diagram).
• FFC cables with one end disconnected should be insulated by using tapes, etc.

1. FRONT PANEL ASSY

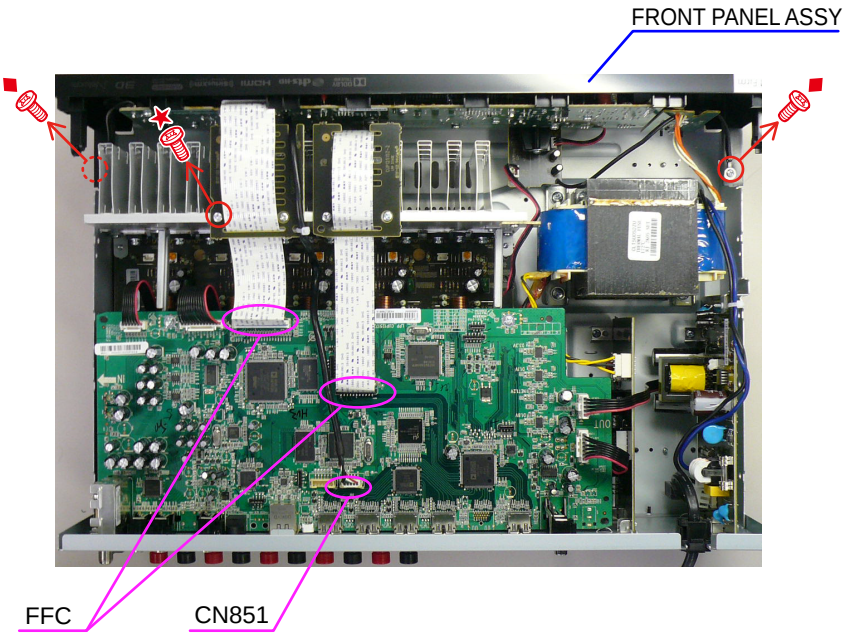
Proceeding : TOP COVER → FRONT PANEL ASSY

(1) Remove the screws.

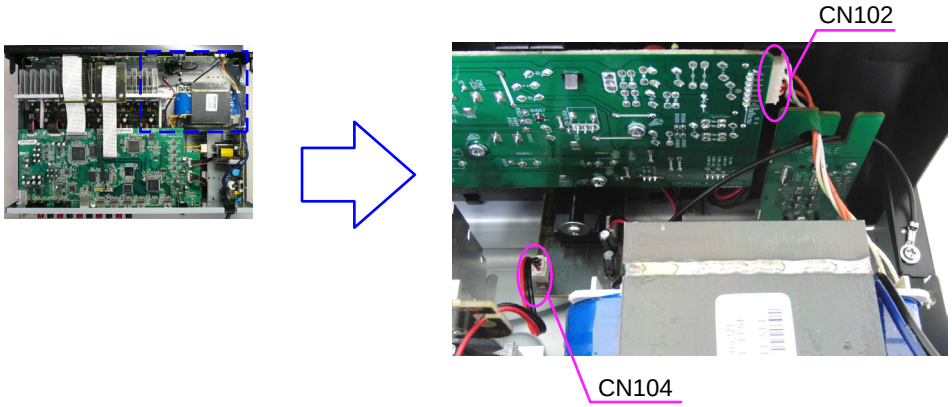
View from the bottom



(2) Remove the screws and disconnect the FFC.



(3) Disconnect the connector wires.



Please refer to "EXPLODED VIEW" for the disassembly method of each PCB included in FRONT PANEL ASSY.

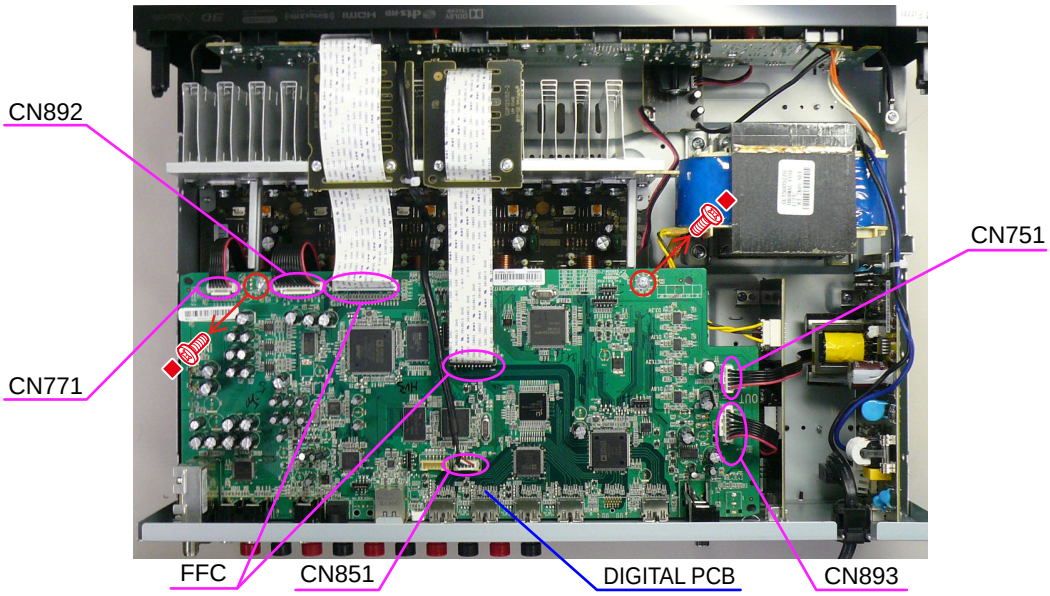
2. DIGITAL PCB ASSY

Proceeding : TOP COVER → DIGITAL PCB ASSY

(1) Remove the screws.

Shooting direction: A

(2) Remove the screws.
Disconnect the connector wires and FFC then disconnect the TUNER PCB.



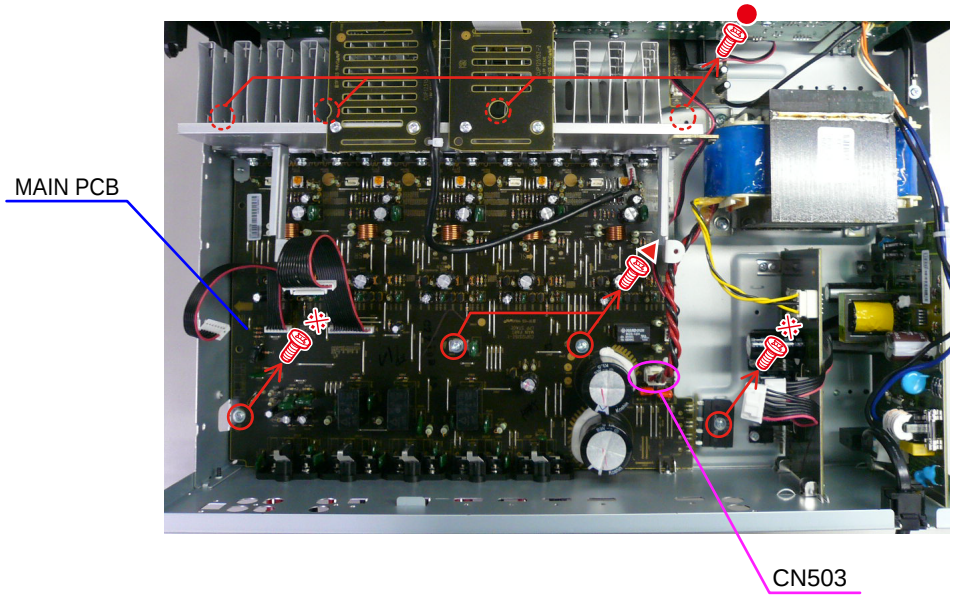
3. RADIATOR ASSY

Proceeding : TOP COVER → DIGITAL PCB ASSY → RADIATOR ASSY

(1) Remove the screws.

Shooting direction: A

(2) Remove the screws then disconnect the connector wire.
Remove the RADIATOR ASSY from the CHASSIS BOTTOM.



4. SMPS PCB

Proceeding : TOP COVER → **SMPS PCB**

Please refer to "EXPLODED VIEW" for the disassembly method of SMPS PCB.

5. REGULATOR PCB

Proceeding : TOP COVER → **REGULATOR PCB**

Please refer to "EXPLODED VIEW" for the disassembly method of REGULATOR PCB.

6. TRANS POWER

Proceeding : TOP COVER → **TRANS POWER**

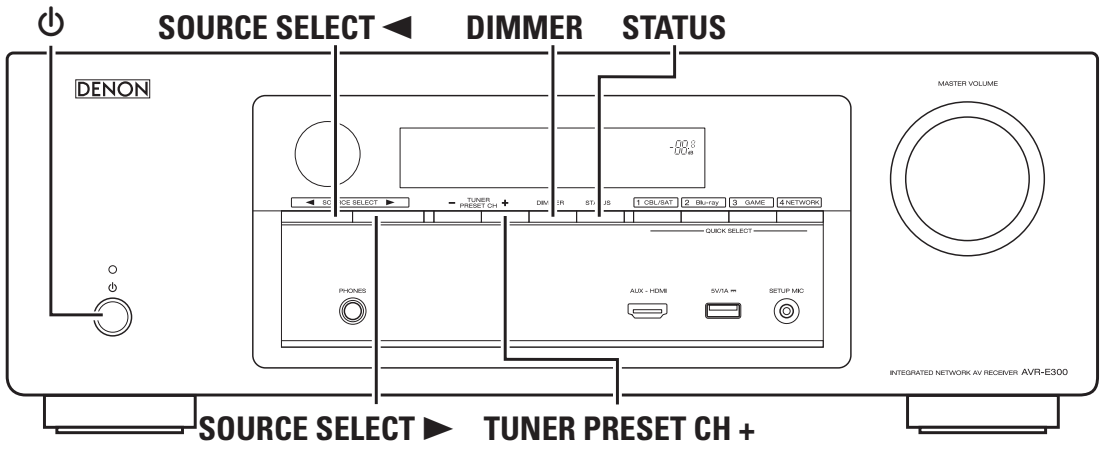
Please refer to "EXPLODED VIEW" for the disassembly method of TRANS POWER.

SPECIAL MODE

Special mode setting button (for E300 model)

※ No.1 - 9 : Press the ⏻ button to turn on the power while pressing both the button A,B and the button C at the same time.
※ No.10 : Turn on the power, then press and hold down A and B buttons for over 3 second.

No.	Mode	Button A	Button B	Button C	Contents
1	Version display (µcom/DSP Error Display)	DIMMER	STATUS	-	Firmware versions such as Main or DSP are displayed in the FL manager. Errors are displayed when they occur. (Refer to 20 page)
2	Errors checking (Displaying the protection history mode)	TUNER PRESET CH +	DIMMER	STATUS	The protection history is displayed. (Refer to 23 page)
3	User Initialization (Installer Setup settings are not initialized.)	SOURCE SELECT ◄	SOURCE SELECT ►	-	Backup data initialization is carried out. (Installer Setup settings are not initialized.)
4	Factory initialization (Installer Setup settings are also initialized)	TUNER PRESET CH +	DIMMER	-	Backup data initialization is carried out. (Installer Setup settings are also initialized)
5	Mode for preventing remote control acceptance	SOURCE SELECT ►	TUNER PRESET CH +	-	Operations using the remote control are rejected. Press the SOURCE SELECT ◄/► to select "RC LOCK On", then press the "STATUS" button to set. (Mode cancellation: Execute the same button operations as when performing setup and select "RC LOCK Off".)
6	Panel lock	↑	↑	-	Operations using the main unit panel buttons or the master volume knob are rejected. Press the SOURCE SELECT ◄/► to select "FP/VOL LOCK On", then press the "STATUS" button to set.
7	Panel lock (Master volume is not locked.)	↑	↑	-	Operations using the main unit panel buttons are rejected. Press the SOURCE SELECT ◄/► to select "FP LOCK On", then press the "STATUS" button to set.
8	Cancellation of panel lock	↑	↑	-	Panel lock mode is cancelled. (Mode cancellation: Execute the same button operations as when performing setup and select "FP LOCK Off", then press the "STATUS" button to set.)
9	Diagnostic	TUNER PRESET CH +	DIMMER	STATUS	This mode is used for confirming the Video and Audio signal paths. (Troubleshooting) The signal paths of the set can be easily confirmed after repair. (Refer to 29 page)
10	Remote ID Setup	DIMMER	STATUS	-	When using multiple DENON AV receivers in the same room, make this setting so that only the desired AV receiver operates.(Refer to 25 page)

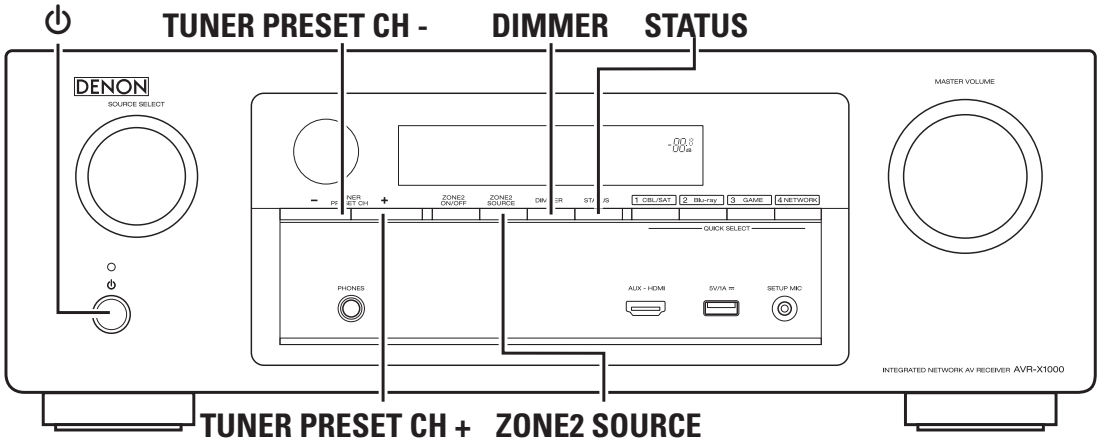


SPECIAL MODE

Special mode setting button (for X1000E3 model)

※ No.1 - 9 : Press the ⏻ button to turn on the power while pressing both the button A,B and the button C at the same time.
※ No.10 : Turn on the power, then press and hold down A and B buttons for over 3 second.

No.	Mode	Button A	Button B	Button C	Contents
1	Version display (µcom/DSP Error Display)	DIMMER	STATUS	-	Firmware versions such as Main or DSP are displayed in the FL manager. Errors are displayed when they occur. (Refer to 20 page)
2	Errors checking (Displaying the protection history mode)	ZONE2 SOURCE	DIMMER	STATUS	The protection history is displayed. (Refer to 23 page)
3	User Initialization (Installer Setup settings are not initialized.)	TUNER PRESET CH-	TUNER PRESET CH+	-	Backup data initialization is carried out. (Installer Setup settings are not initialized.)
4	Factory initialization (Installer Setup settings are also initialized)	ZONE2 SOURCE	DIMMER	-	Backup data initialization is carried out. (Installer Setup settings are also initialized)
5	Mode for preventing remote control acceptance	TUNER PRESET CH+	ZONE2 SOURCE	-	Operations using the remote control are rejected. Press the TUNER PRESET CH - / + to select "RC LOCK On", then press the "STATUS" button to set. (Mode cancellation: Execute the same button operations as when performing setup and select "RC LOCK Off".)
6	Panel lock	↑	↑	-	Operations using the main unit panel buttons or the master volume knob are rejected. Press the TUNER PRESET CH - / + to select "FP/VOL LOCK On", then press the "STATUS" button to set.
7	Panel lock (Master volume is not locked.)	↑	↑	-	Operations using the main unit panel buttons are rejected. Press the TUNER PRESET CH - / + to select "FP LOCK On", then press the "STATUS" button to set.
8	Cancellation of panel lock	↑	↑	-	Panel lock mode is cancelled. (Mode cancellation: Execute the same button operations as when performing setup and select "FP LOCK Off", then press the "STATUS" button to set.)
9	Diagnostic	ZONE2 SOURCE	DIMMER	STATUS	This mode is used for confirming the Video and Audio signal paths. (Troubleshooting) The signal paths of the set can be easily confirmed after repair. (Refer to 29 page)
10	Remote ID Setup	DIMMER	STATUS	-	When using multiple DENON AV receivers in the same room, make this setting so that only the desired AV receiver operates.(Refer to 25 page)

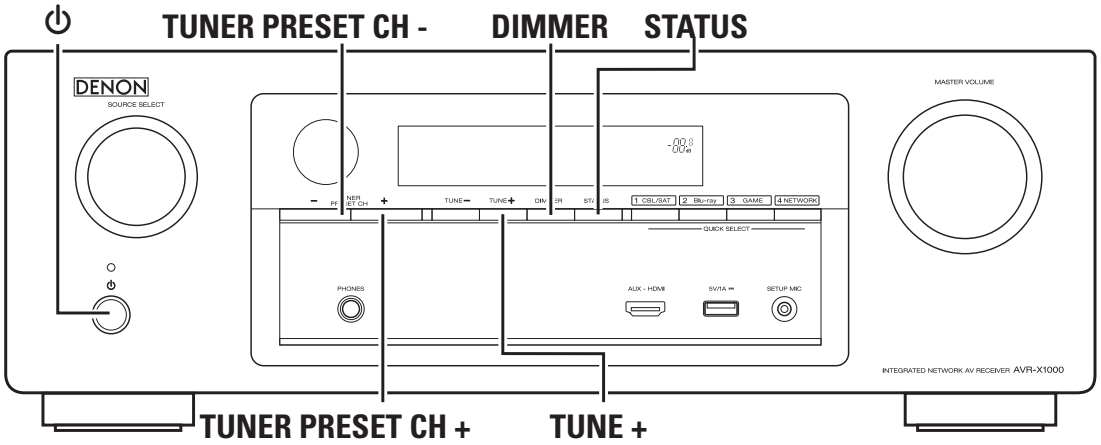


SPECIAL MODE

Special mode setting button (for E2 , E1C model)

※ No.1 - 10 : Press the ⏻ button to turn on the power while pressing both the button A,B and the button C at the same time.
※ No.11 : Turn on the power, then press and hold down A and B buttons for over 3 second.

No.	Mode	Button A	Button B	Button C	Contents
1	Version display (µcom/DSP Error Display)	DIMMER	STATUS	-	Firmware versions such as Main or DSP are displayed in the FL manager. Errors are displayed when they occur. (Refer to 20 page)
2	Errors checking (Displaying the protection history mode)	TUNE +	DIMMER	STATUS	The protection history is displayed. (Refer to 23 page)
3	User Initialization (Installer Setup settings are not initialized.)	TUNER PRESET CH-	TUNER PRESET CH+	-	Backup data initialization is carried out. (Installer Setup settings are not initialized.)
4	Factory initialization (Installer Setup settings are also initialized)	TUNE +	DIMMER	-	Backup data initialization is carried out. (Installer Setup settings are also initialized)
5	Mode for switching tuner frequency step (E2 only)	TUNER PRESET CH+	DIMMER	-	Change tuner frequency step to FM:200kHz/50kHz STEP. Press the TUNER PRESET CH - / + to select "Mode for switching tuner frequency step", then press the "STATUS" button to set. Turn the power off in this state and turn the power on again to make the setting take effect.
6	Mode for preventing remote control acceptance	TUNE +	TUNER PRESET CH+	-	Operations using the remote control are rejected. Press the TUNER PRESET CH - / + to select "RC LOCK On", then press the "STATUS" button to set. (Mode cancellation: Execute the same button operations as when performing setup and select "RC LOCK Off".)
7	Panel lock	↑	↑	-	Operations using the main unit panel buttons or the master volume knob are rejected. Press the TUNER PRESET CH - / + to select "FP/VOL LOCK On", then press the "STATUS" button to set.
8	Panel lock (Master volume is not locked.)	↑	↑	-	Operations using the main unit panel buttons are rejected. Press the TUNER PRESET CH - / + to select "FP LOCK On", then press the "STATUS" button to set.
9	Cancellation of panel lock	↑	↑	-	Panel lock mode is cancelled. (Mode cancellation: Execute the same button operations as when performing setup and select "FP LOCK Off", then press the "STATUS" button to set.)
10	Diagnostic	ZONE2 SOURCE	DIMMER	STATUS	This mode is used for confirming the Video and Audio signal paths. (Troubleshooting) The signal paths of the set can be easily confirmed after repair. (Refer to 29 page)
11	Remote ID Setup	DIMMER	STATUS	-	When using multiple DENON AV receivers in the same room, make this setting so that only the desired AV receiver operates.(Refer to 25 page)



1. µcom/DSP Version display mode

1.1. Operation specifications

µcom/DSP version display mode:
When the set is started up in this mode, the version information is displayed.

Starting up:
Press the ⏻ button to turn on the power while pressing the "DIMMER" and "STATUS" buttons.
Now, press the "STATUS" button to the display the 2nd item information on the FL Display.

※ When the version is displayed on the FL Display, the version list is also displayed on the GUI.

1.2. Display Order

Error information(Refer to **1.3. 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(DM860) 1st Boot Loader, Hardware ID → *⑨ Ethernet(DM860) 2nd Boot Loader, Rhapsody Flag → *⑩ Ethernet(DM860) IMAGE → *⑪ Ethernet(DM860)MAC ADDRESS information

① Model destination information :

Model	FLD
AVR-E300 E3 model	AVR-E300 E3
AVR-X1000 E3 model	AVR-X1000 E3
AVR-X1000 E2 model	AVR-X1000 E2
AVR-X1000 E1C model	AVR-X1000 E1C
AVR-X1010 E1C model	AVR-X1010 E1C

② Firmware Package Version :

FLD	Package:****

③ Main µ-com :

FLD	Main:**** ####

(*: Main version, #: Sub version)

④ Main 1st Boot Loader :

FLD	Main FBL:**.**

⑤ DSP ROM :

FLD	DSP:**.**

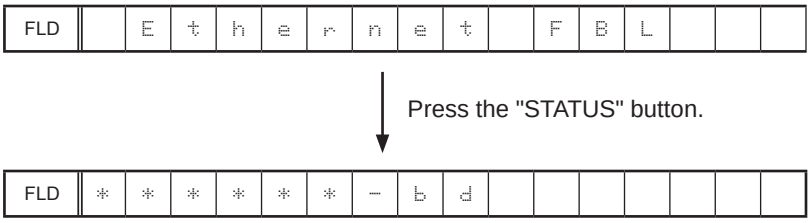
⑥ Audio PLD :

FLD	Audio PLD:**.**

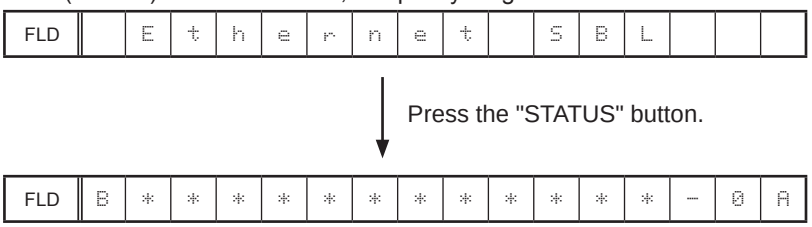
⑦ GUI SFLASH :

Model	FLD
AVR-E300 E3 model AVR-X1000 E3 model	GUI:6311****
AVR-X1000 E2 model	GUI:6312****
AVR-X1000 E1 model	GUI:6315****
AVR-X1000 E1C model AVR-X1010 E1C model	GUI:6316****

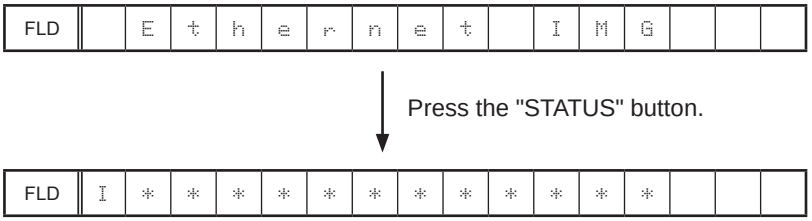
⑧ Ethernet(DM860) 1st Boot Loader, Hardware ID :



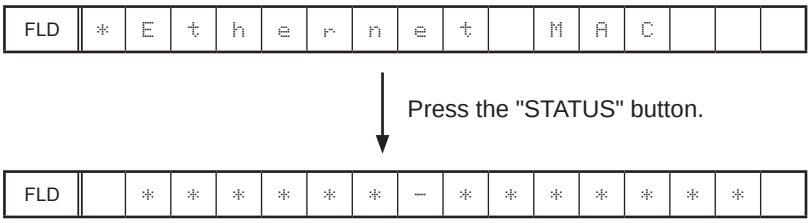
⑨ Ethernet(DM860) 2nd Boot Loader, Rhapsody Flag :



⑩ Ethernet(DM860) IMAGE :



⑪ Ethernet(DM860)MAC ADDRESS information :



1.3. Error display

See the following table for each "Error information" display and its explanation (status).
Display order is ①,②,③,④,⑤.

Condition	Status	FL Display	Trouble shooting
① Firm Check NG	Compared with the destination setting on the board. This is displayed when the model name or destination information written into the firmware does not match. (※)	FIRM ERROR	• Please check the destination-resistors (R7663/R7664, DIGITAL PCB). • Please write the firmware of correct destination.
② DIR NG	No response from DIR	DIR ERROR 01	• Please check DIR (IC782, DIGITAL PCB) and around circuits.
③ DSP NG	When DSP code boot is performed, the DSP FLAG0 port does not change to "H" even if DSP reset is executed.	DSP ERROR 01	• Please check DSP (IC791, DIGITAL PCB) and around circuits.
	Before DSP command is issued, the DSP FLAG0 port does not change to "H".	DSP ERROR 02	
	When DSP data read is performed, executing WRITE="L" does not result in ACK="H".	DSP ERROR 03	
	When DSP data read is performed, executing REQ="L" does not result in ACK="L".	DSP ERROR 04	
	When DSP data writing is performed, executing WRITE="H" does not result in ACK="H".	DSP ERROR 05	
	When DSP data writing is performed, executing REQ="L" does not result in ACK="L".	DSP ERROR 06	
④ EEPROM NG	Error occurs in EEPROM checksum.(*** is a block address number.)	E2PROM ERR***	
⑤ Both DSP / EEPROM OK		(No error display, version display only)	

Status	FL Display
※ When the firmware version is displayed, ▲ is displayed at the start of the firmware.	▲Main :*******
	▲DSP :**.**
	▲Audio PLD:**.**
	▲GUI :*******

2. Errors checking mode (Displaying the protection history)

2.1. Operation specifications

Error mode (Displaying the protection history):

When the set is started up in this mode, the error information is displayed.

Starting up:

• Common in all the models

Press the ⏻ button to turn on the power while pressing the
"TUNER PRESET CH +" (AVR-E300) / "ZONE2 SELECT" (AVR-X1000 E3) / "TUNE +"(E2 , E1C) button, "DIMMER" and "STATUS" buttons.
Press the SOURCE SELECT ◄/► (AVR-E300) / "TUNER PRESET CH - / +" (except AVR-E300) to select "2.PROTECTION", then press the "STATUS" button to set.
The error (protection history display) mode is set.
Now, press the "STATUS" button to turn on the FL display.

2.2. About the display on the FL display

When the "STATUS" button is pressed after setting the error (protection history display) mode is set, a history like the one shown below is displayed, depending on the conditions.

(1) Normal (when there has been no protection incident)

FLD	N	O		P	R	O	T	E	C	T						

(2) For ASO (when the last protection incident was ASO protection)

FLD	P	R	T	:	A	S	O									

Cause: The line between speaker terminals is shorted, or speakers with impedance of less than the rated value.
Supplementary information: As the excess current is detected after operation of the speaker relay, a short on the speaker terminal and the connected speaker can be identified.

If the power is turned on without correcting the abnormality, the protection function will work about 6 seconds later and the power supply will be shut off.

(3) For DC (when the last protection incident was DC protection)

FLD	P	R	T	:	D	C										

Cause: DC output of the power amplifier is abnormal.

If the power is turned on without correcting the abnormality, the protection function will work about 6 seconds later and the power supply will be shut off.

(4) For THERMAL (when the last protection incident was THERMAL(A) or THERMAL(B) protection)

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: The temperature of the heat sink is excessive.

If the power is turned on without correcting the abnormality, the protection function will work about 2 minutes later and the power supply will be shut off.

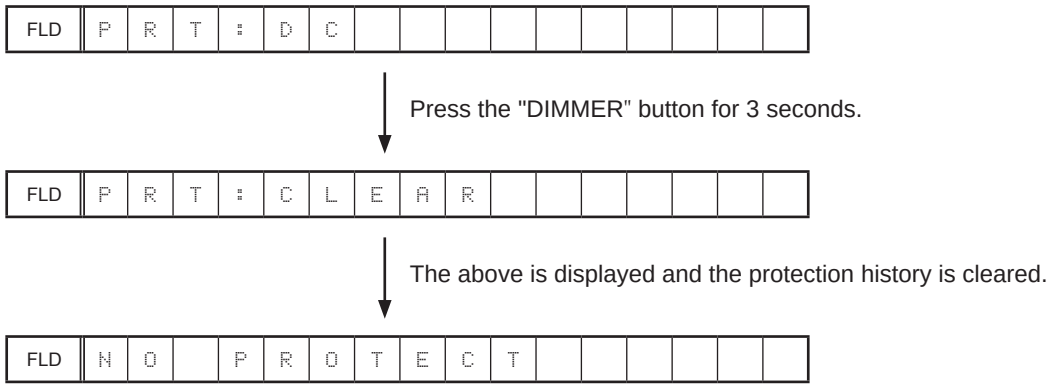
※ Additional causes of protection can be due to loose connections, associated components, Microprocessor, etc.

When the "STATUS" button is pressed again after the above protection history as shown above is displayed, the normal display reappears.

2.3. Clearing the protection history

There are two ways to clear the protection history, as described below.

(1) Start up the set in error (protection display) mode and display the error, then press and hold down the "DIMMER" button for 3 seconds.



(2) Initialize. (Refer to "Initializing INTEGRATED NETWORK AV RECEIVER" 10 page.)

※ If you want to save a backup, perform the method in 2.3.(1) above.

Warning indication by the POWER LED

If the power is turned off when a protection incident has been detected, the POWER LED (red) flashes as a warning according to the conditions in which the protection incident occurred.

(1) ASO/DC PROTECTION : Flashes at intervals of 0.5 seconds (0.25 seconds lit, 0.25 seconds off)
(2) THERMAL (A/B) PROTECTION : Flashes at intervals of 2 seconds (1 second lit, 1 second off)

3. Remote ID Setup mode

3.1. Specifications

When using multiple DENON AV receivers in the same room, make this setting so that only the desired AV receiver operates.

3.2. Setting the AV receivers

Starting up:

Press and hold both "STATUS" and "DIMMER" buttons for over 3 second with the power turned on.

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

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

Button	FL 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) Turn off the power using ⏻ button.

(4) Turn on the power using ⏻ button.

※ When Remote ID Setup mode is running, operations other than the QUICK SELECT 1 - 4 buttons or ⏻ buttons on the main unit are not received.

※ For the remote control that is supplied with this unit, you cannot change the REMOTE ID.

NOTE:

If the IDs do not match, "AVAMP ∗" (∗ is the main unit's remote control ID) appears on the display when the remote control unit is operated.

Personal notes:

4. DIAGNOSTIC MODE (Video/Audio (signal) path confirmation mode

4.1. Specification

This mode is used for confirming the Video and Audio (signal) paths. (Troubleshooting)
Confirming the operation of unit can be easily done after repair.
Backup data will not be lost.

4.2. Starting diagnostic mode

Press the ⏻ button to turn on the power while pressing the "TUNER PRESET CH +"(AVR-E300) / "ZONE2 SOURCE"(AVR-X1000E3) / "TUNE +"(E2 , E1C) , "DIMMER" and "STATUS".
Press the SOURCE SELECT ◄/► (except AVR-E300) , "TUNER PRESET CH +"(AVR-X1000) to select "1.SERVICE CHECK", then press the "STATUS" button to set.
TUNED, STEREO and RDS are lit in FL display.

4.3. Canceling diagnostic mode

Turn off the power by pressing the ⏻ button.

4.4 Selecting items

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

This unit			remote controller		
① audio ⇔ video	② previous	③ next	① audio ⇔ video	② previous	③ next
DIMMER	QUICK SELECT 1	QUICK SELECT 2	SLEEP	CURSOR LEFT	CURSOR RIGHT

4.5 Video system confirmation items

fig. XX: Refer to the block diagram of the fig.XXth.

	Confirmation item	FL display	settings	Contents of confirmationRemarks
1	Analog Video Signal Path (analog or HDMI ⇒ HDMI) **fig.1**	V01:VIDEO PASS	Input Source : CBL/SAT	·CVBS input ⇒ CVBS output (※ Input source can be switched.)
2	HDMI Thru Signal Path **fig.2**	V03:HDMI PASS	Input Source : CBL/SAT	·HDMI input ⇒ HDMI output (※ Input source can be switched.)
3	HDMI CEC **fig.3**	V04:HDMI CEC	Input Source : CBL/SAT HDMI Control : ON	·When the power supply of a TV is put in the standby mode, make sure that the power supply of this unit is also put in the standby mode. (※ Input source can be switched.) ·To check ARC path, switch the input source to "TV AUDIO".
4	HDMI audio (audio: AVR) **fig.4a** **fig.4b**	V05:H.AUDIO-AVR	Input Source : CBL/SAT HDMI Control : OFF HDMI Audio : AVR	·HDMI input(PCM , DolbyDigital , DTS) ⇒ Speaker output ·HDMI input(HD audio) ⇒ Speaker output (※ Input source can be switched.)
5	HDMI audio (audio: TV) **fig.2**	V06:H.AUDIO-TV	HDMI Audio : TV	·HDMI input(PCM , DolbyDigital , DTS) ⇒ HDMI output (audio output from connected TV) (※ Input source can be switched.)
6	GUI menu **fig.5**	V07:GUI MENU ON	Input Source : CBL/SAT Setup Menu ON	·GUI display ⇒ HDMI output (※ Input source can be switched.)

4.6 Audio system confirmation items

fig. XX: Refer to the block diagram of the fig.XXth.

	Confirmation item		FL display	settings	Contents of confirmationRemarks
1	analog pass	**fig.6**	A01:ANALOG PASS	Input Source: CBL/SAT Input Mode: ANALOG(fixed) Sound mode: DIRECT	·Analog input ⇒ Speaker output (※ Input source can be switched.)
2	digital	**fig.7** **fig.4b**	A02:DIGITAL	Input Source : CBL/SAT Input Mode : DIGITAL(fixed) Sound mode: MULTI CH STEREO Speaker Config: all Speakers =Small SW=Yes	·Digital input ⇒ Speaker output (※ Input source can be switched.)
3	HDMI	**fig.4a** **fig.4b**	A05:HDMI	Input Source : CBL/SAT Input Mode : HDMI(fixed) Sound mode: STEREO	·HDMI input ⇒ Speaker output (※ Input source can be switched.)
4	analog A/D (MAIN)	**fig.8a** **fig.8b**	A06:AD	Input Source : CBL/SAT Input Mode : Analog(fixed) Sound mode: MULTI CH STEREO Speaker Config: all Speaker=Small/ SW=Yes	·Analog input ⇒ Speaker output (※ Input source can be switched.)
5	digital (ZONE2) ※only X1000 E3	**fig.9a** **fig.9b**	A03:DIGITAL-Z2	Input Source : NETWORK Input Mode : Auto Sound mode: STEREO ZONE2: ON	·Network input ⇒ ZONE2 Preout output ·USB input ⇒ ZONE2 Preout output

BLOCK DIAGRAM

fig.1

ANALOG AUDIO/VIDEO BLOCK

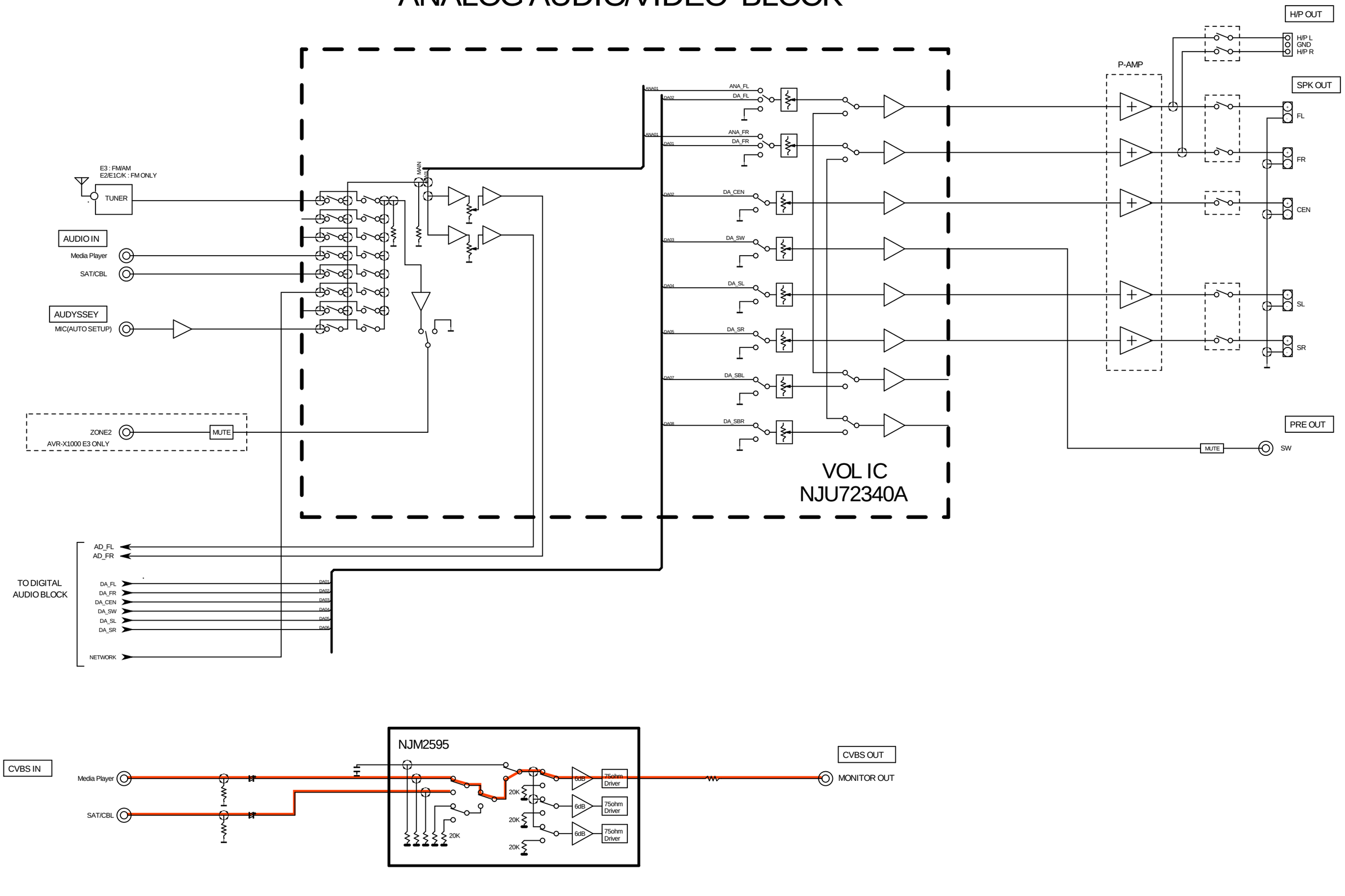


fig.2

DIGITAL AUDIO/HDMI BLOCK

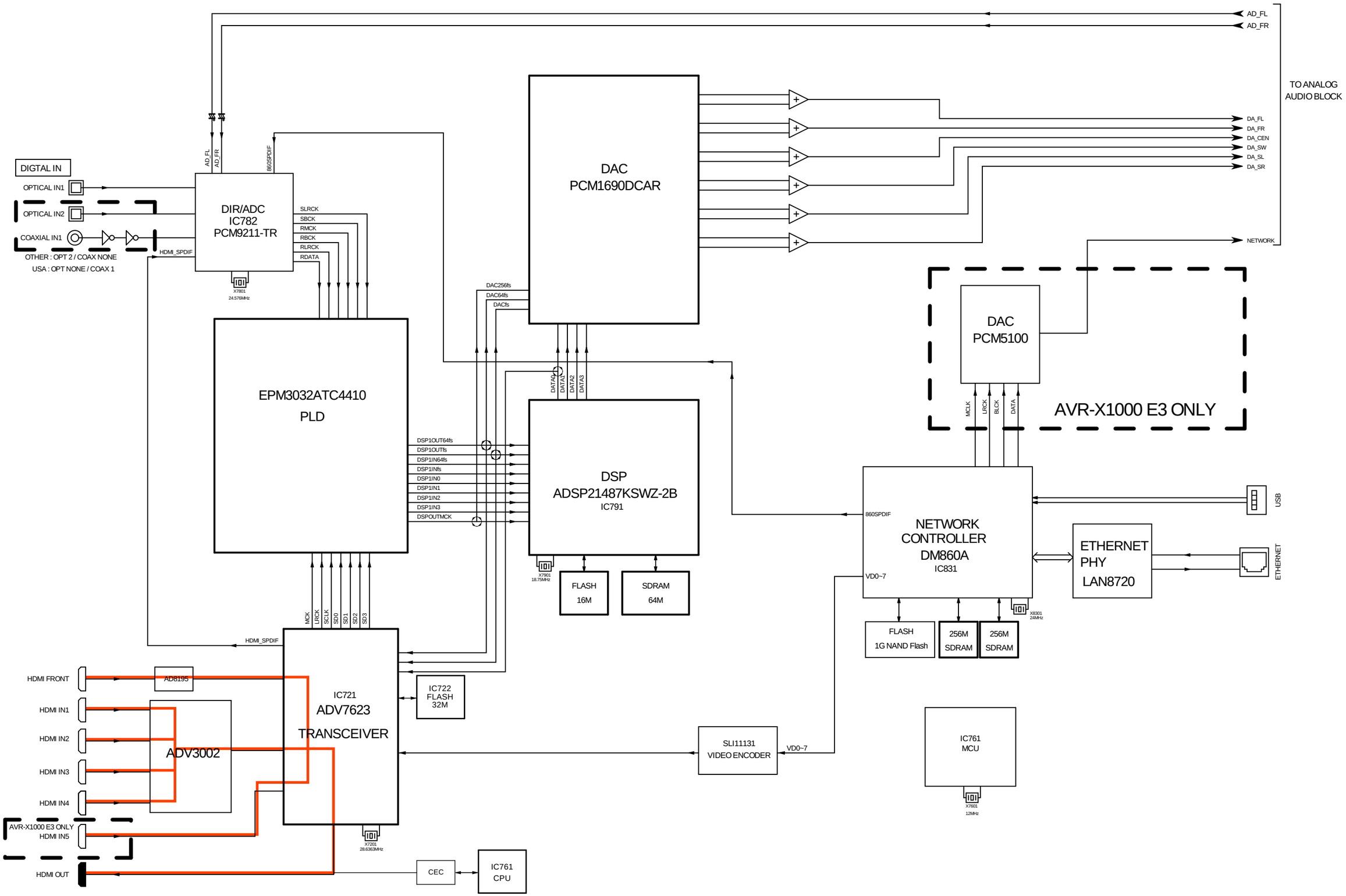


fig.3

DIGITAL AUDIO/HDMI BLOCK

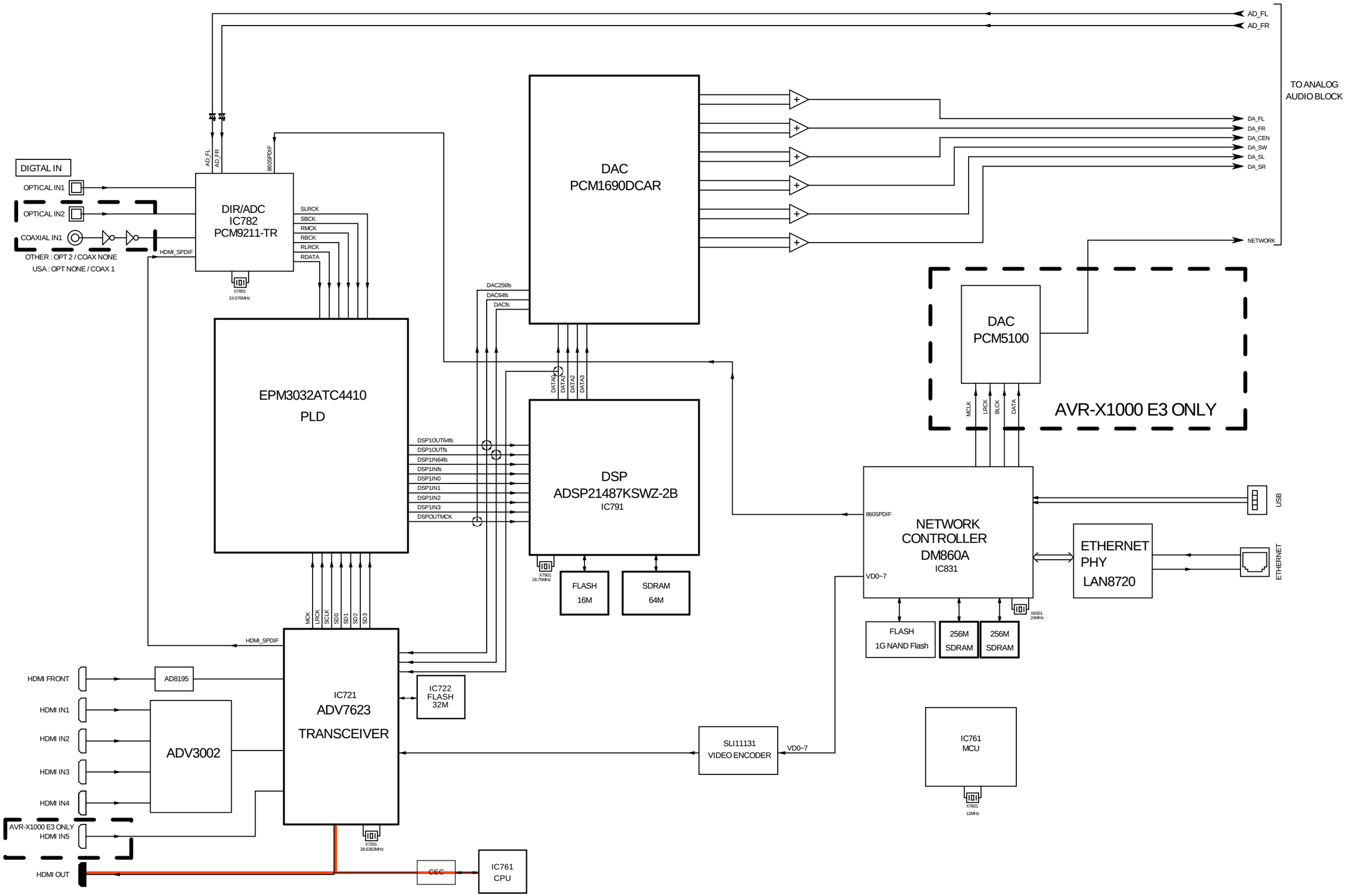


fig.4a

DIGITAL AUDIO/HDMI BLOCK

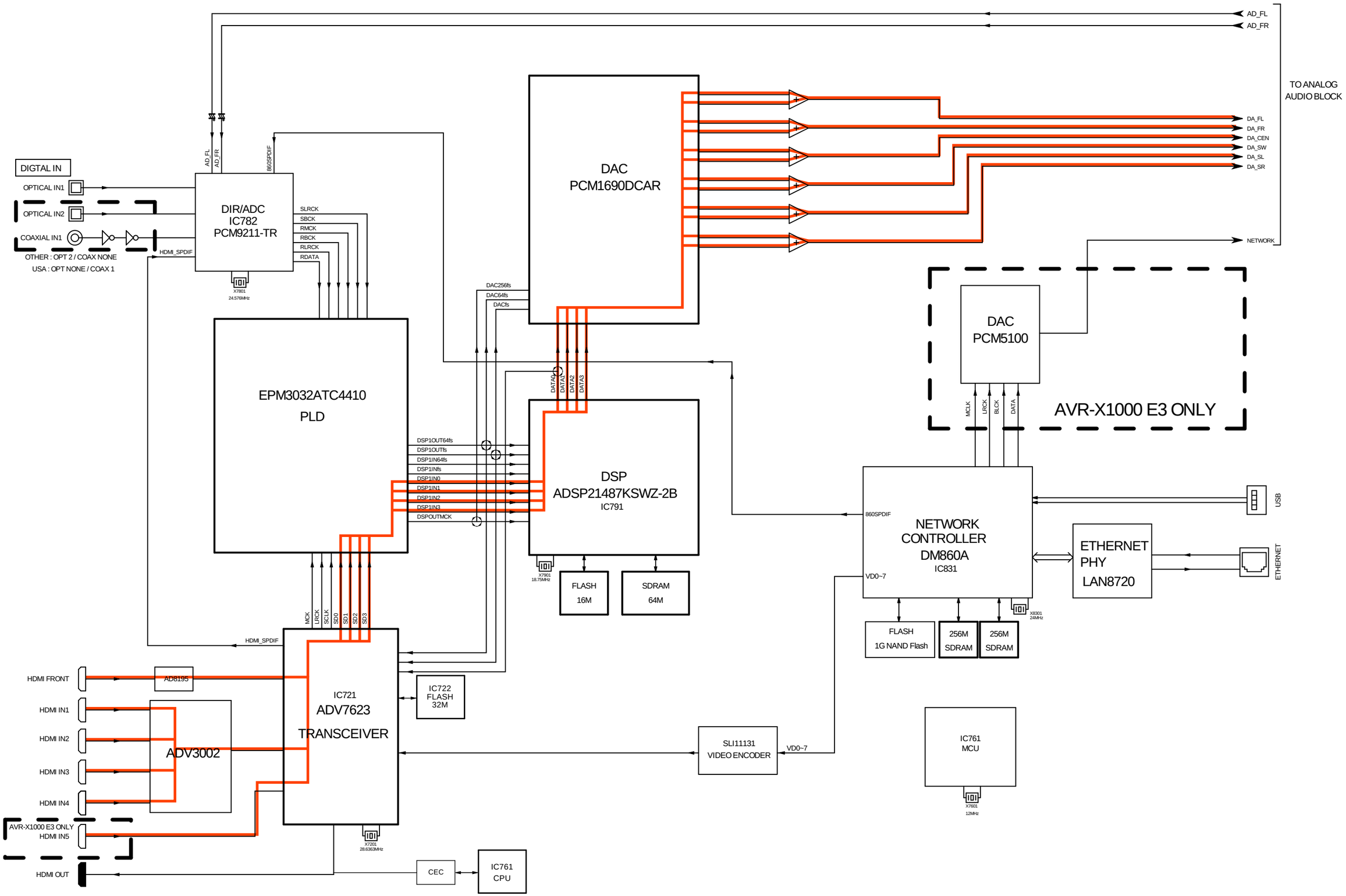


fig.4b

ANALOG AUDIO/VIDEO BLOCK

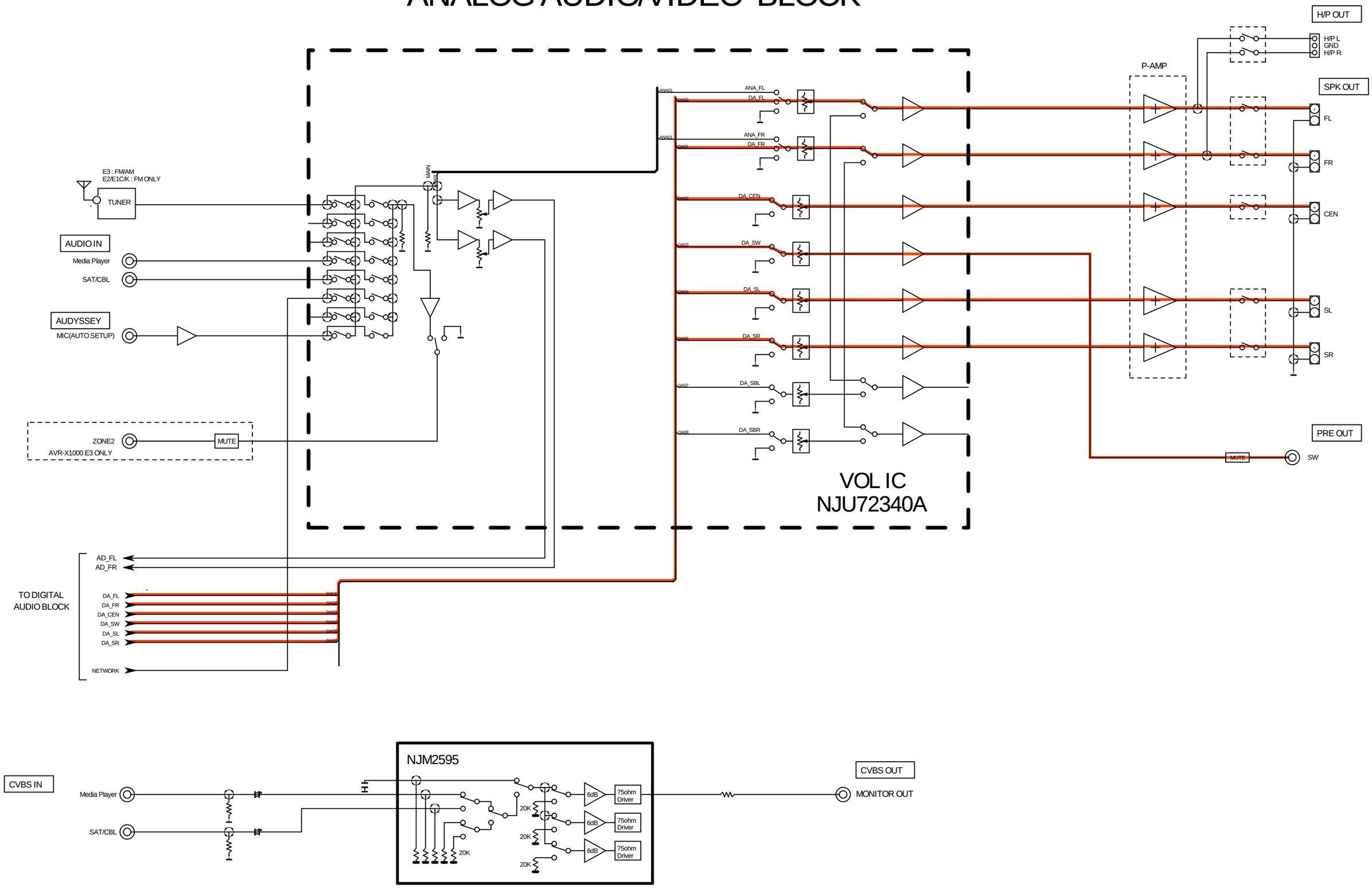


fig.5

DIGITAL AUDIO/HDMI BLOCK

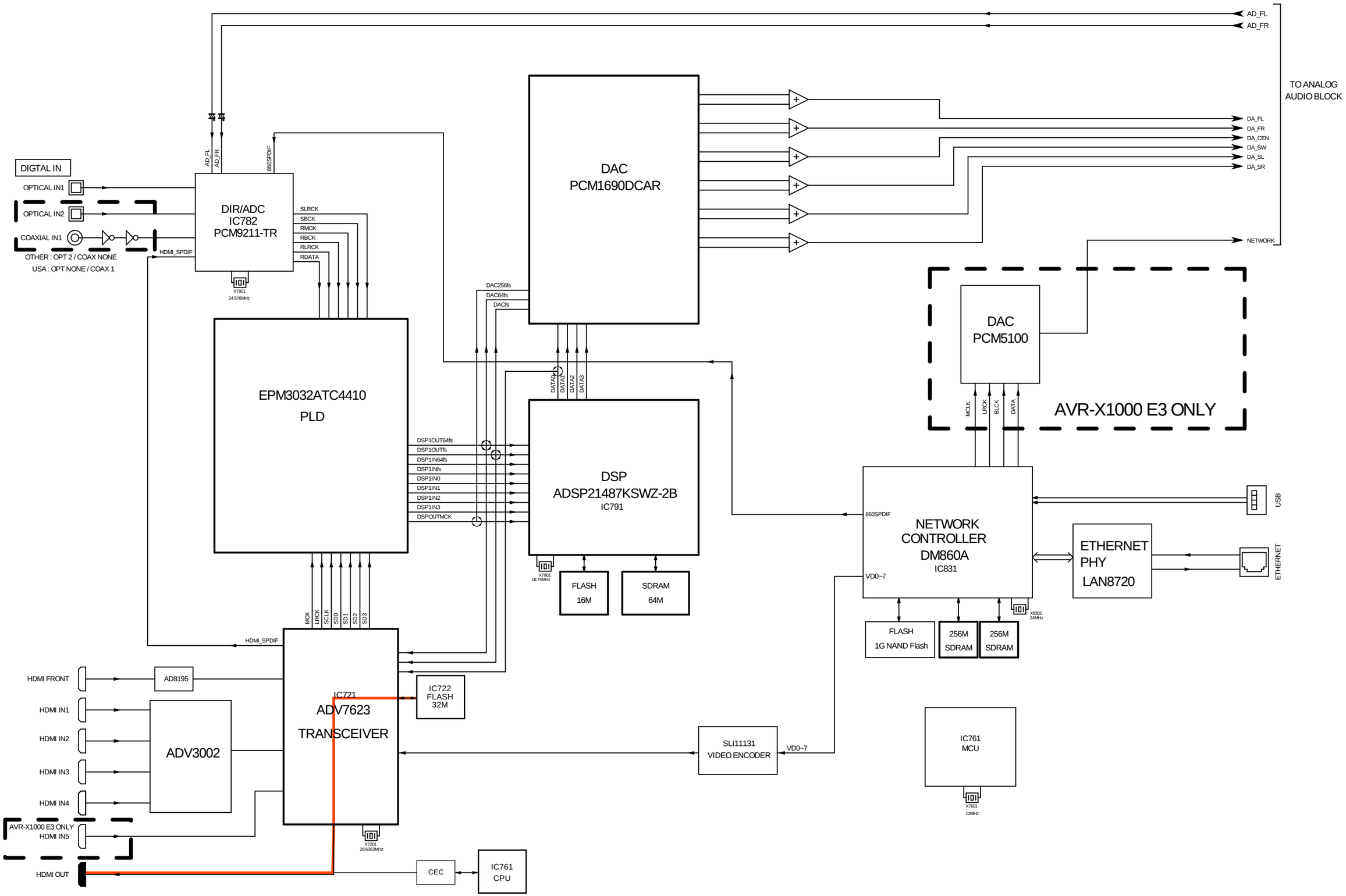


fig.6

ANALOG AUDIO/VIDEO BLOCK

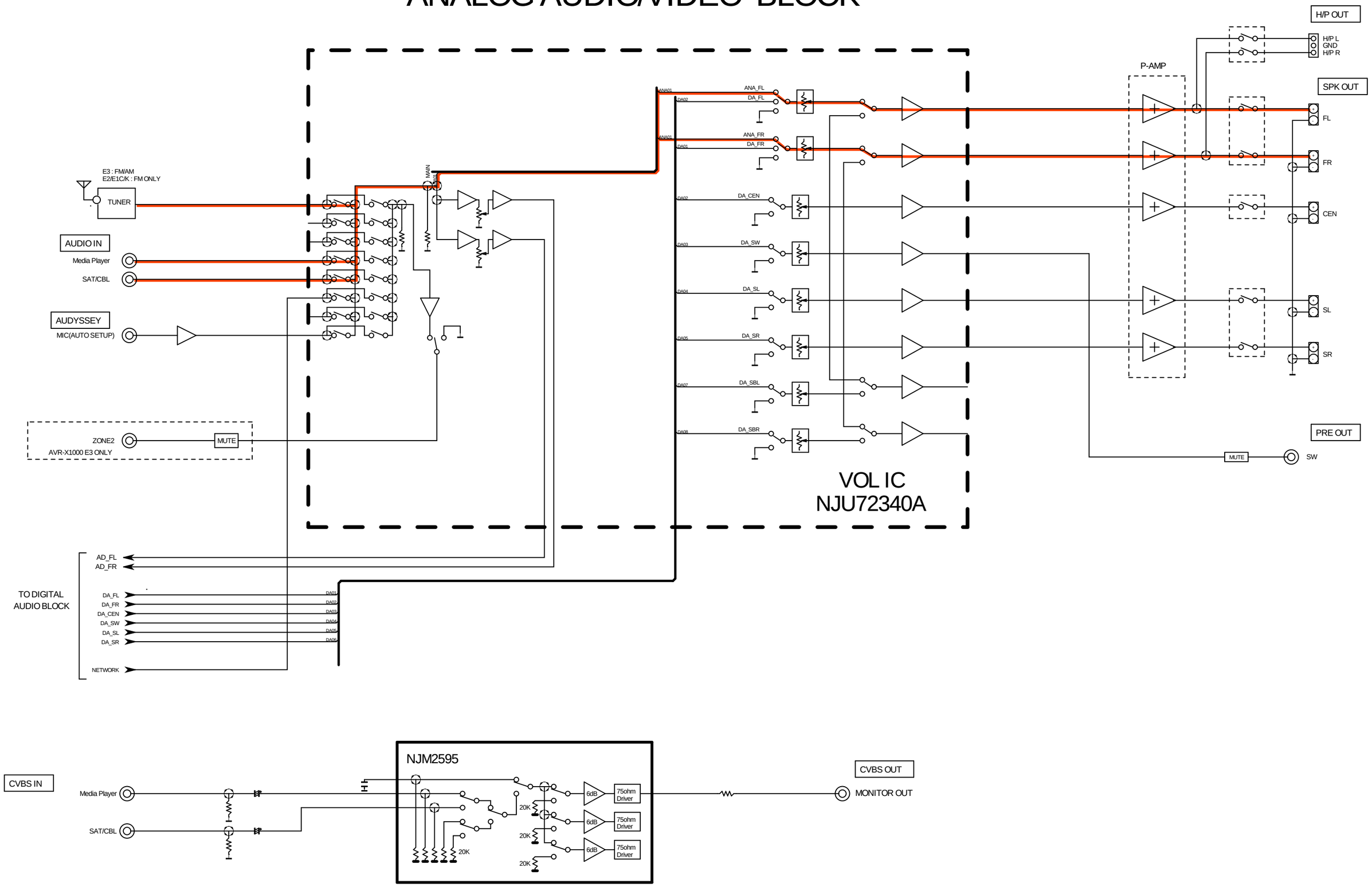


fig.7

DIGITAL AUDIO/HDMI BLOCK

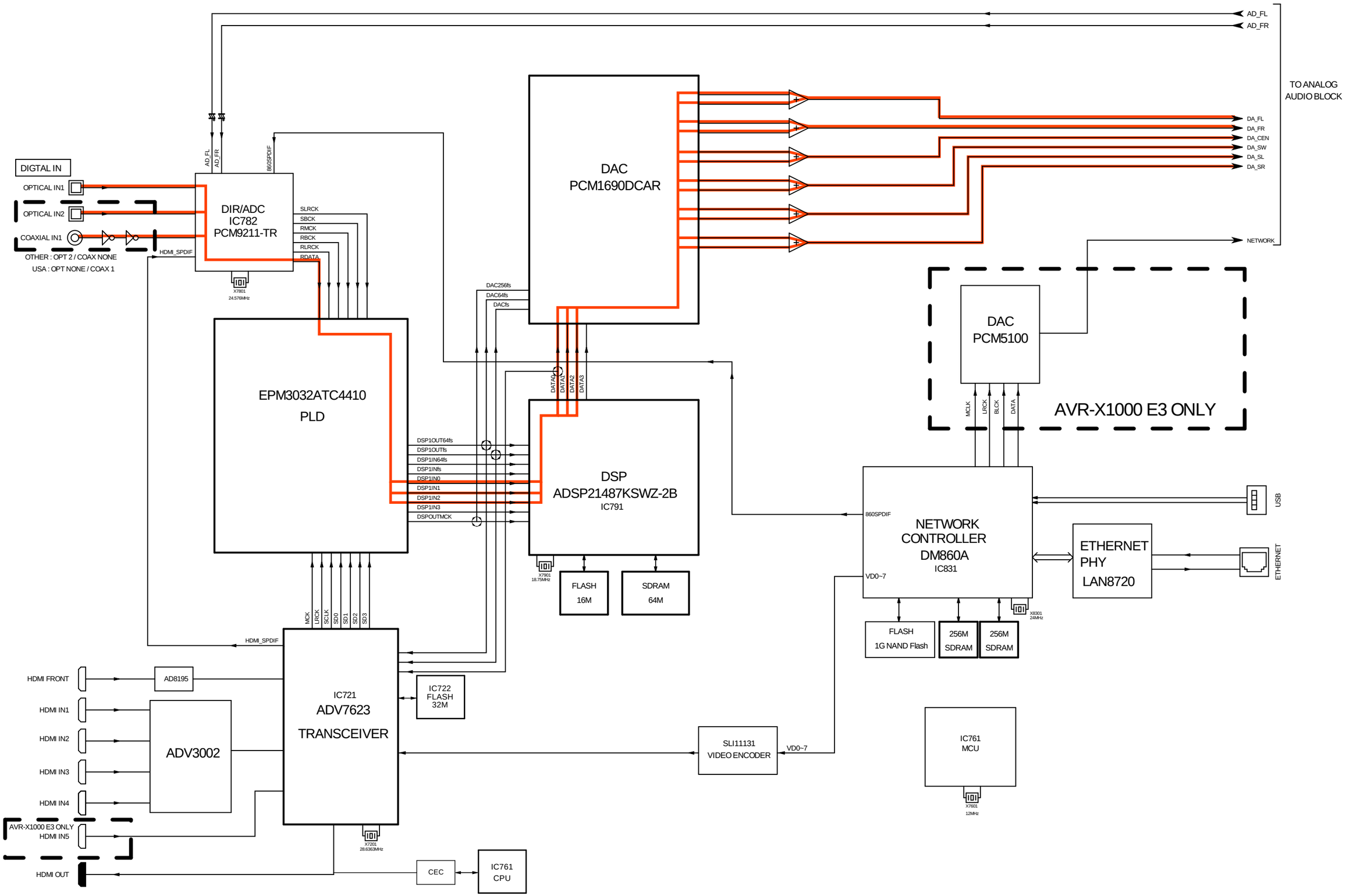


fig.8a

ANALOG AUDIO/VIDEO BLOCK

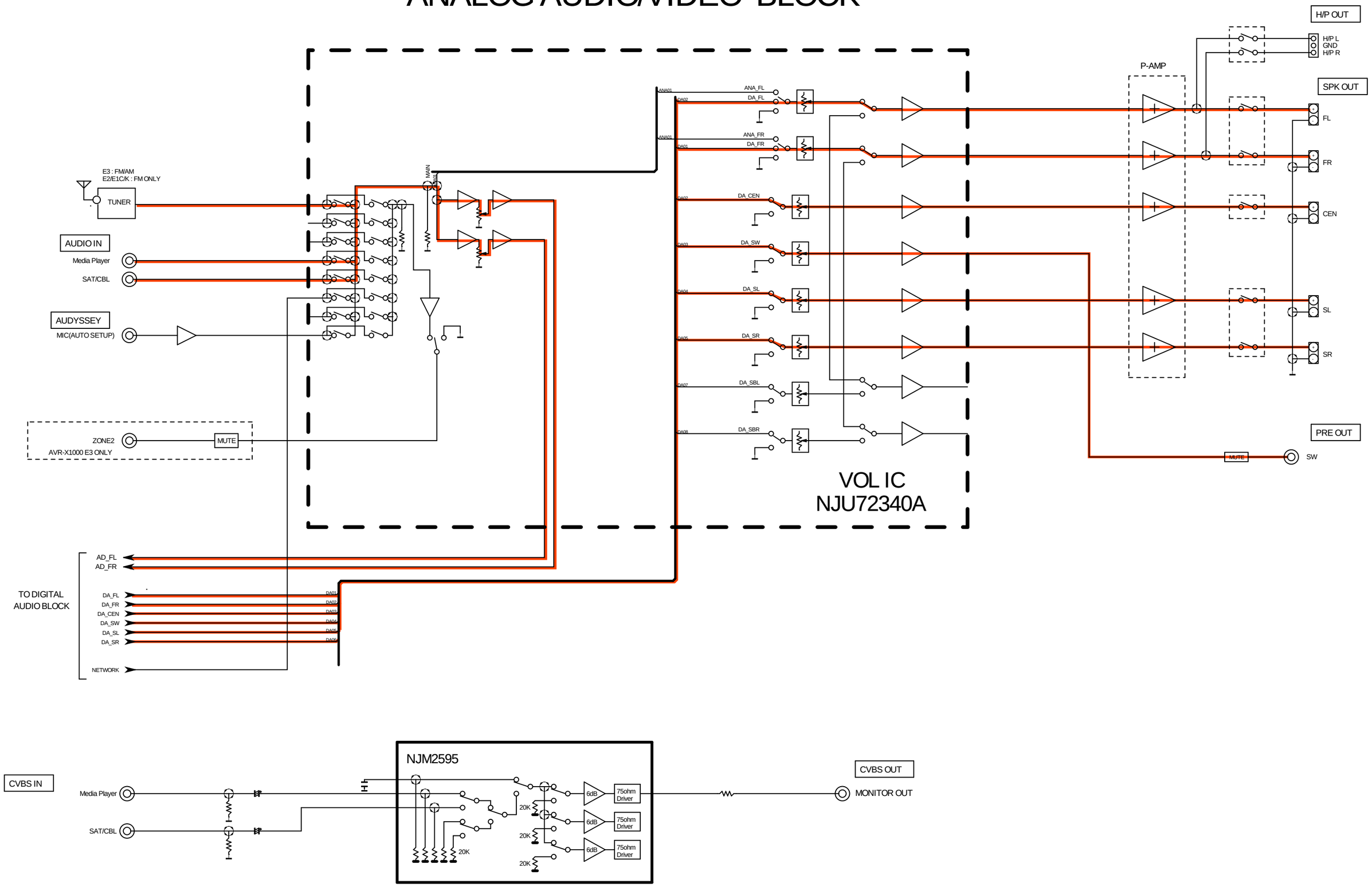


fig.8b

DIGITAL AUDIO/HDMI BLOCK

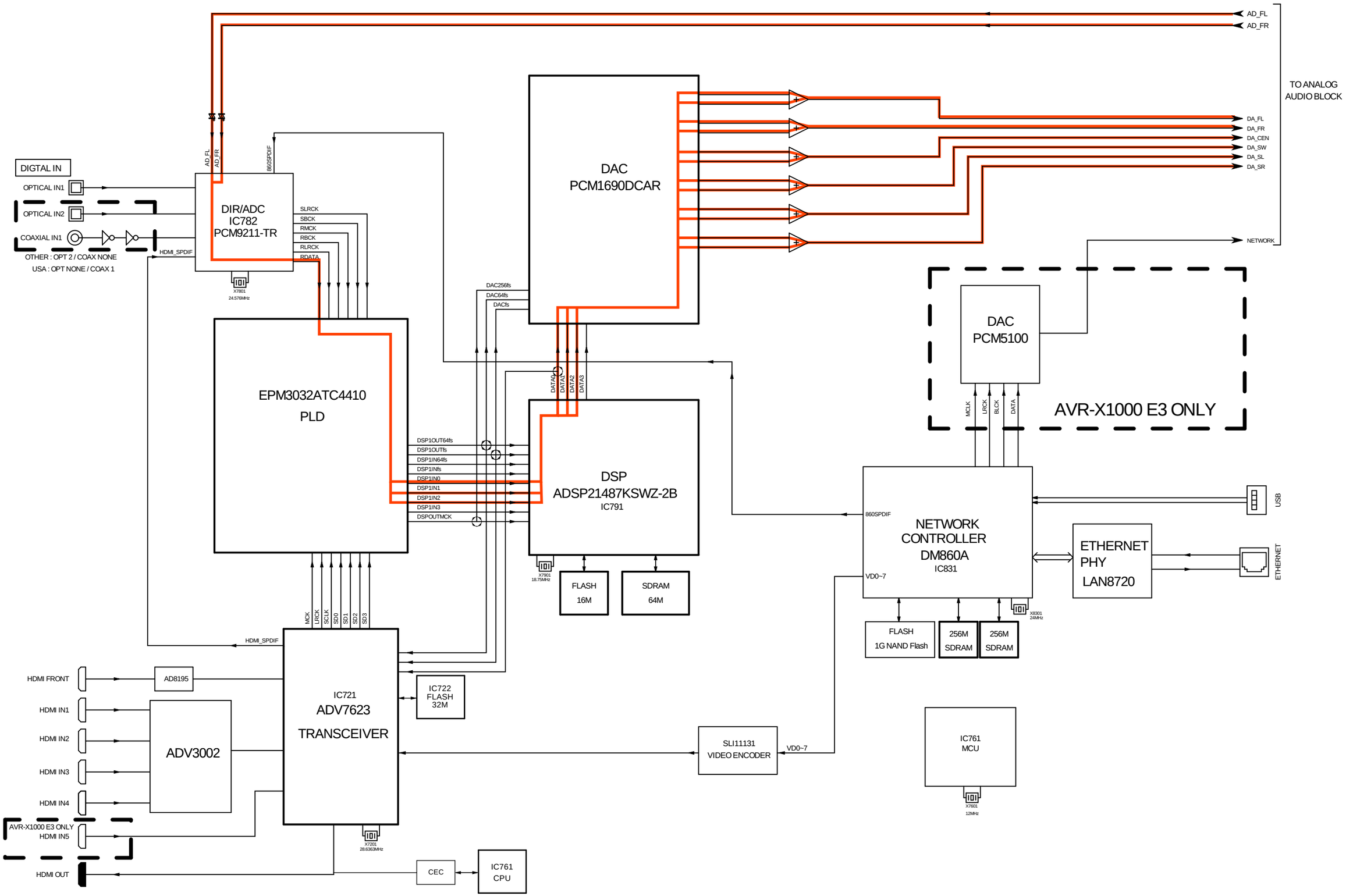


fig.9a

ANALOG AUDIO/VIDEO BLOCK

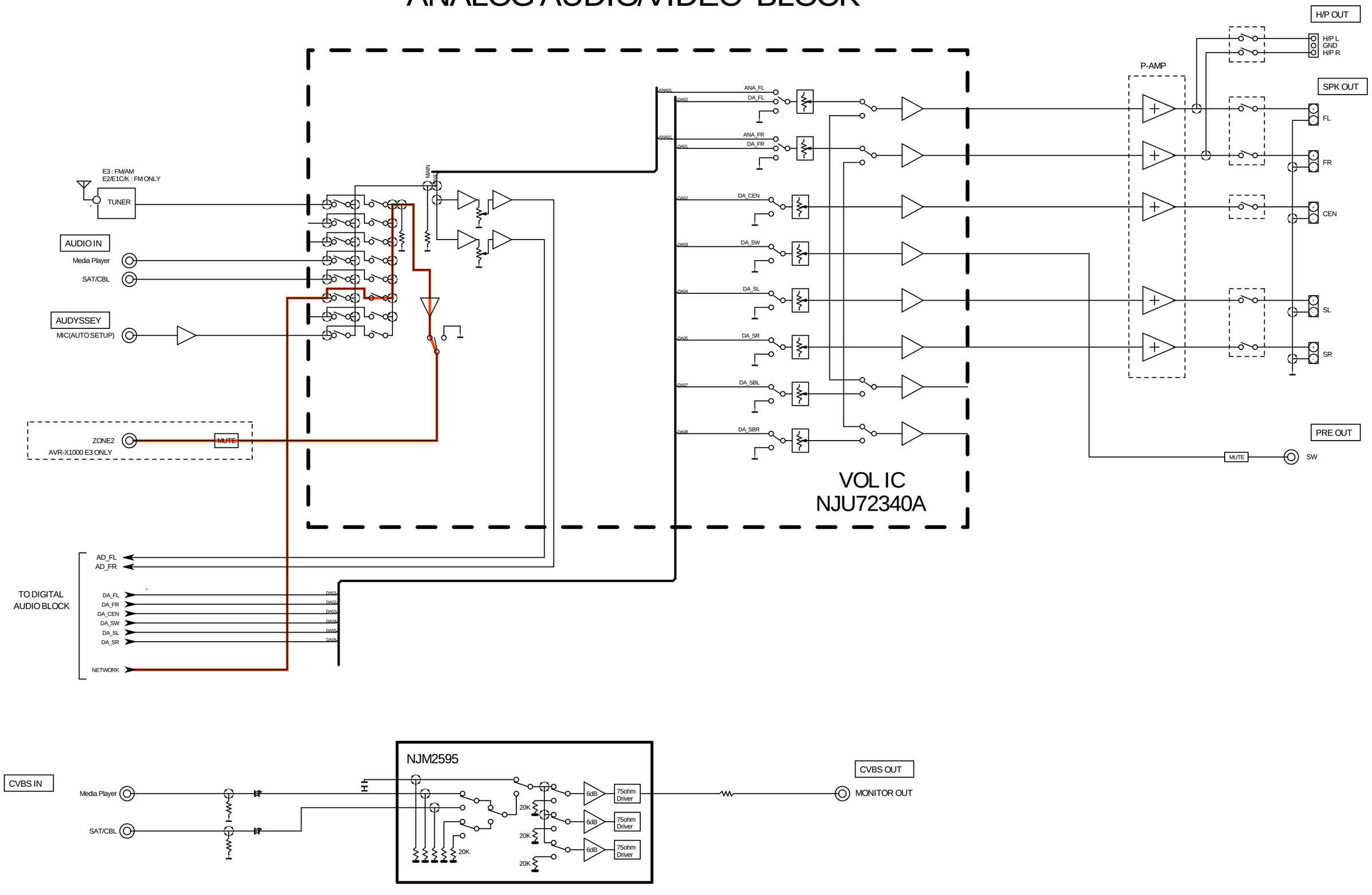
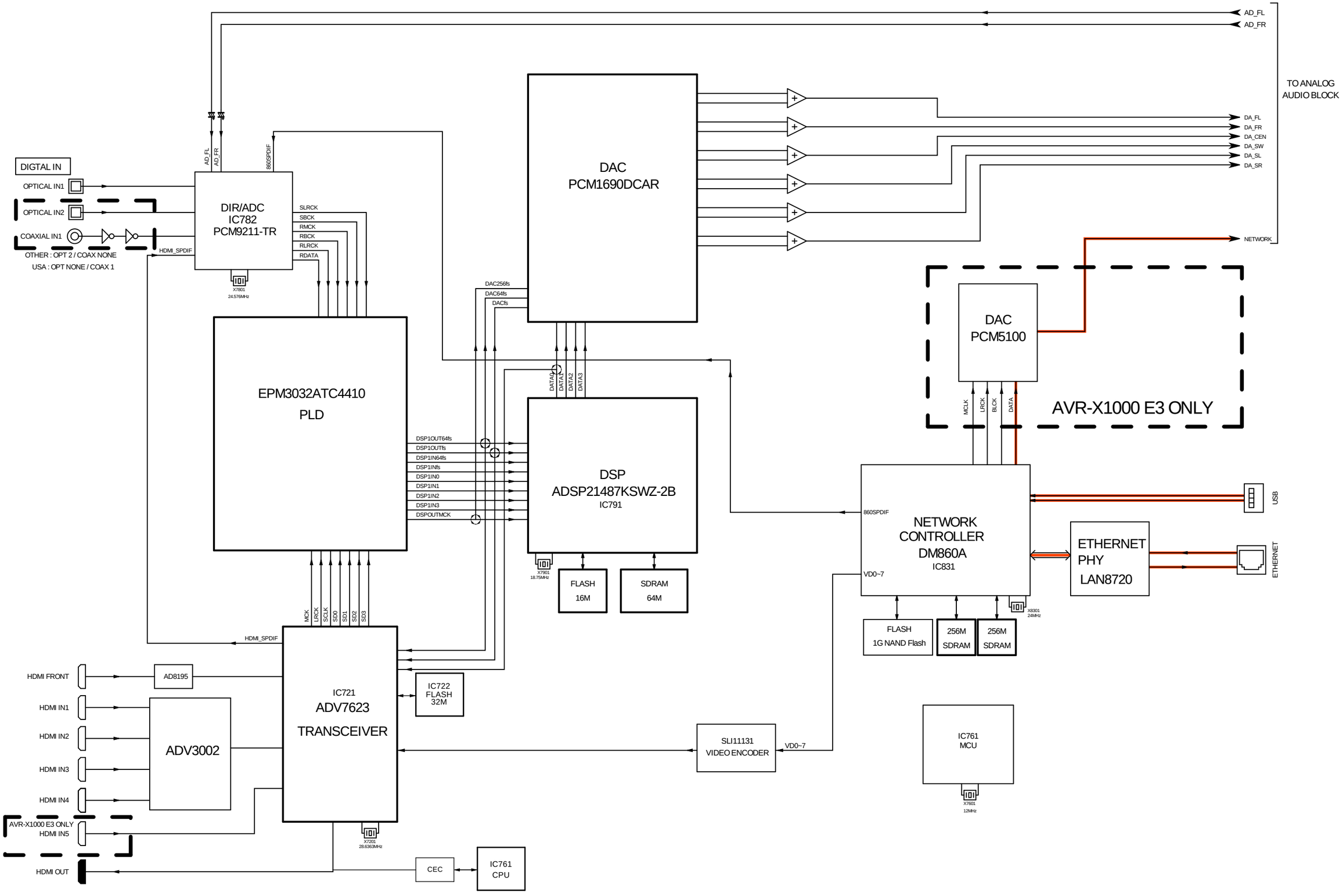
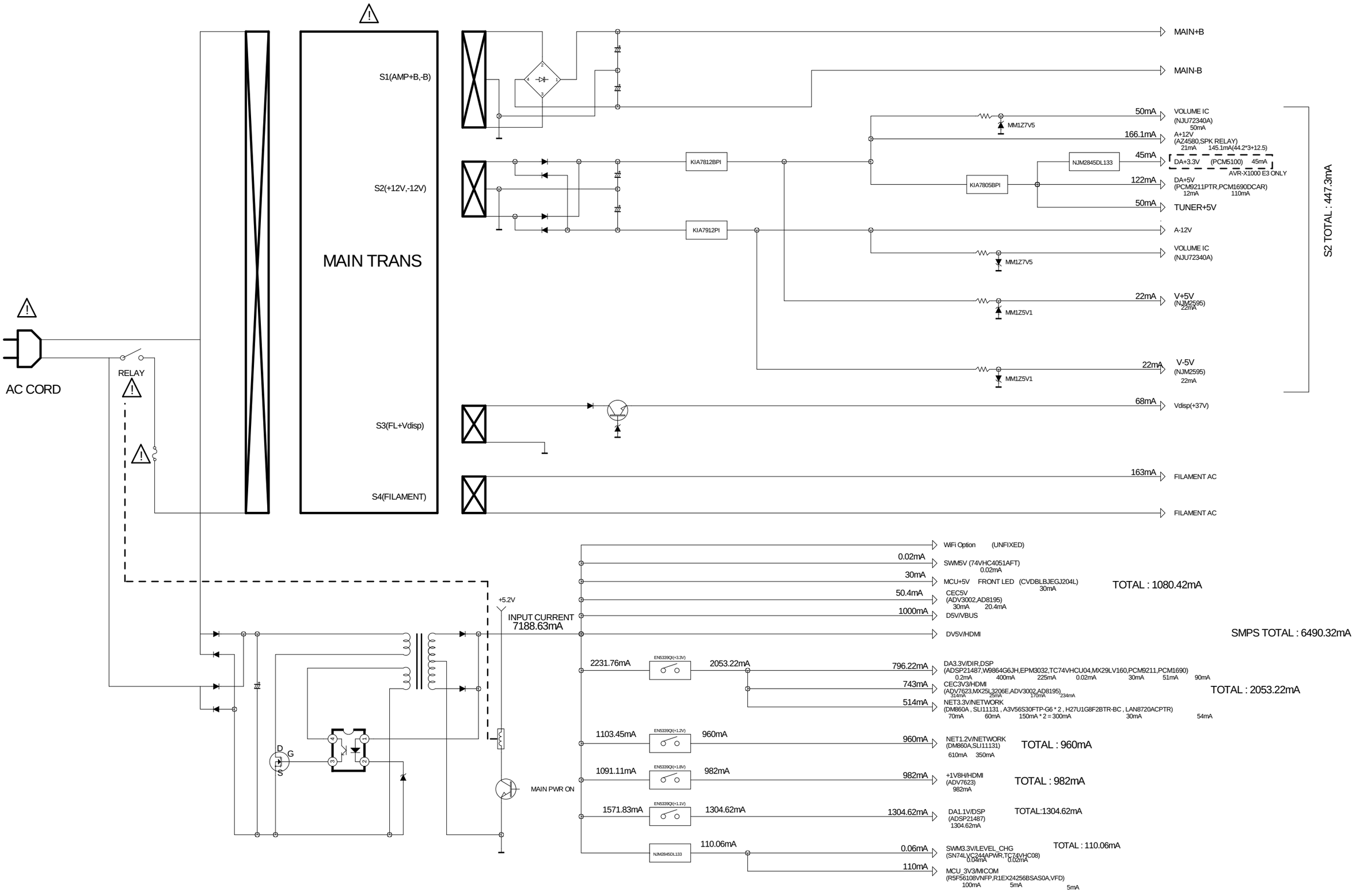


fig.9b

DIGITAL AUDIO/HDMI BLOCK



POWER BLOCK DIAGRAM



Personal notes:

Personal notes:

WHEN THE MICROPROCESSOR IS REPLACED WITH A NEW ONE

When the U-PRO (Microprocessor) or the Flash ROM is replaced, confirm the following.

PWB Name	Ref. No.	Description	After replaced	Remark
DIGITAL	IC761	R5F56108VNFP	**B**	SOFTWARE: Main
DIGITAL	IC793	MX29LV160DBTI-70G	**B**	SOFTWARE: DSP ROM
DIGITAL	IC783	EPM3032A-TC4410	**B**	SOFTWARE: AUDIO PLD
DIGITAL	IC722	MX25L3206EM2I-12G	**B**	SOFTWARE: OSD ROM

After replacing

A : Mask ROM (With software). No need for write-in of software to the microprocessor.

B : Flash ROM (With software). Usually, no need for write-in of software. But, when the software was updated, you should write the new software on the microprocessor or flash ROM. Please check the software version.

C : Empty Flash ROM (Without software). You should write the software on the microprocessor or flash ROM. Refer to "Update procedure" or "writing procedure", when you write the software.

PROCEDURE FOR UPGRADING THE VERSION OF THE FIRMWARE

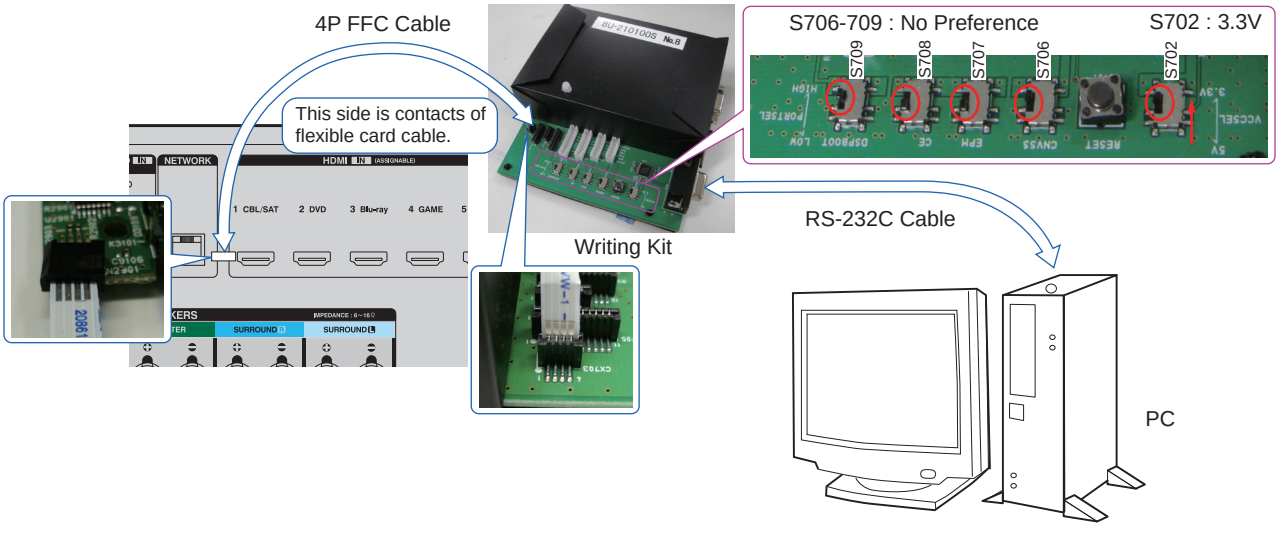
1. How to update by DFW

1.1. Preparations before starting the operation

(1) Personal Computer (Installed "DFW_0063_AVRX1000_1010_E300(Rev.2.1.8).exe".
(2) RS-232 cable (9P (Male), Straight).
(3) 8U-210100 Writing Kit.

1.2. Connection of AV receiver

(1) Confirm the power on/off switch of the AV receiver is turning off.
(2) Connect the update terminal of AV receiver with the "Writing Kit".
(3) Connect the RS-232C cable from PC with the "Writing Kit".

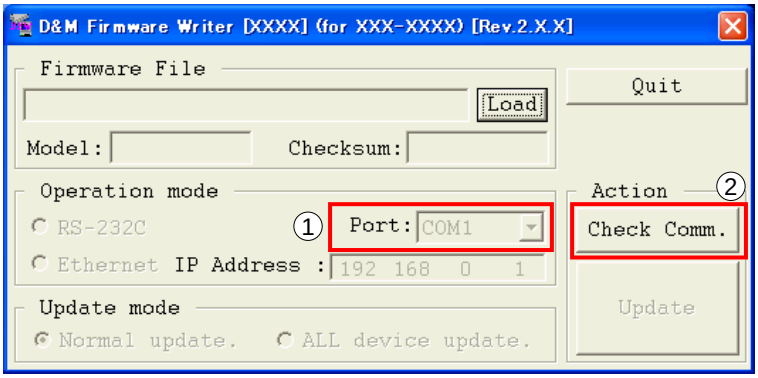


1.3. Run the DFW

Run the "DFW_0063_AVRX1000_1010_E300(Rev.2.1.8).exe" on desktop of PC.

1.4. Communication check

(1) Select the serial port number of RS-232C in PC.
(2) Click the "Check Comm." button.



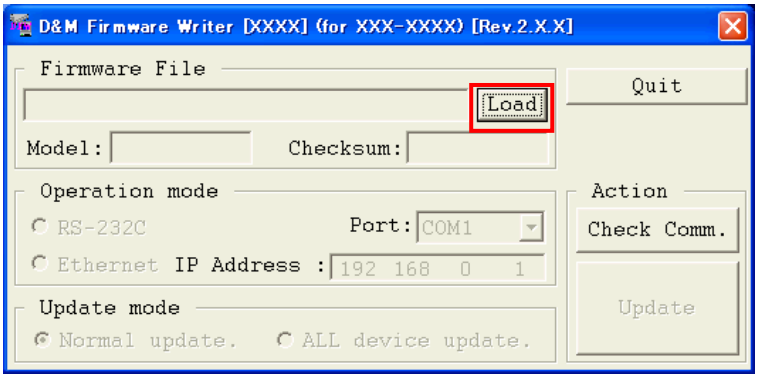
(3) When connection is good, then you can see the "Communication check OK." message.

(4) If connection is not good, then you can see the "Communication check NG" message.

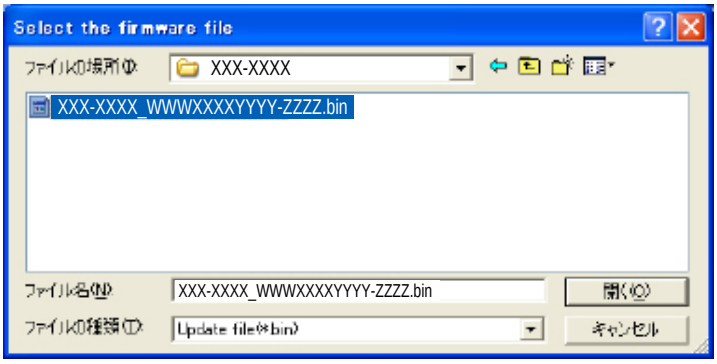
Please confirm the following
(a) Check the connection of the AV receiver and PC. (refer to "**1.2. Connection of the AV receiver**")
(b) Check the selection of the RS-232C port number of PC.

1.5. Download the firmware

(1) Click the "Load" button.

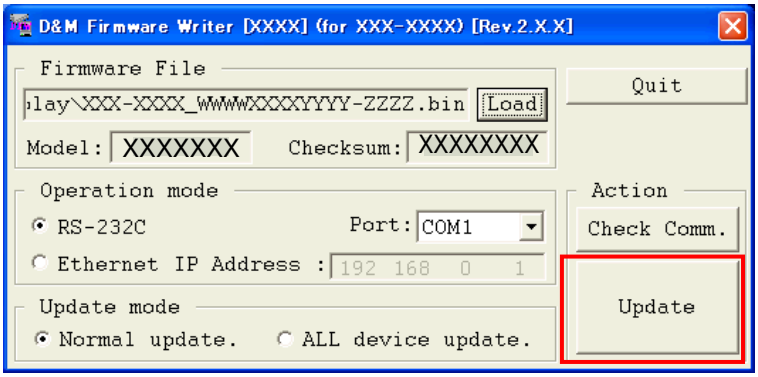


(2) Download the firmware from the specified download source to PC.

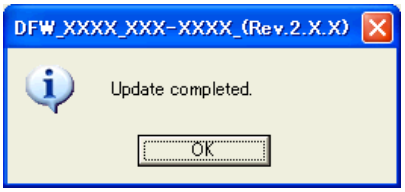


1.6. Complete the firmware updating

(1) Click the "Update" button.



(2) When writing of the firmware is completed, the power of AV receiver turns on automatically and you can see the "Update completed" message.



(3) If you can’t complete the firmware update, please retry the firmware update from "1.3. Run the DFW".

1.7. Notice:

Please keep the following notice for firmware update.

(a) Keep the PC environment
(b) Avoid the communication cable from the electrical noise source.
(e.g. telephone cable, AC line, a fluorescent light)
(c) Don’t remove cable during update.
(d) Don’t turn off the power during update.
(e) Don’t run other PC application during update.
(f) Stop the resident program on PC (Virus checker and System check utility, etc)
(g) Stop the screen saver on PC.
(h) Stop the power save ability on PC.
(i) In case of laptop PC, Use the AC adaptor.

Confirming the firmware’s number after upgraded

After updating the firmware, check the version. Refer to "**1. µcom/DSP Version display mode**" (20 page).

2. How to update by DPMS

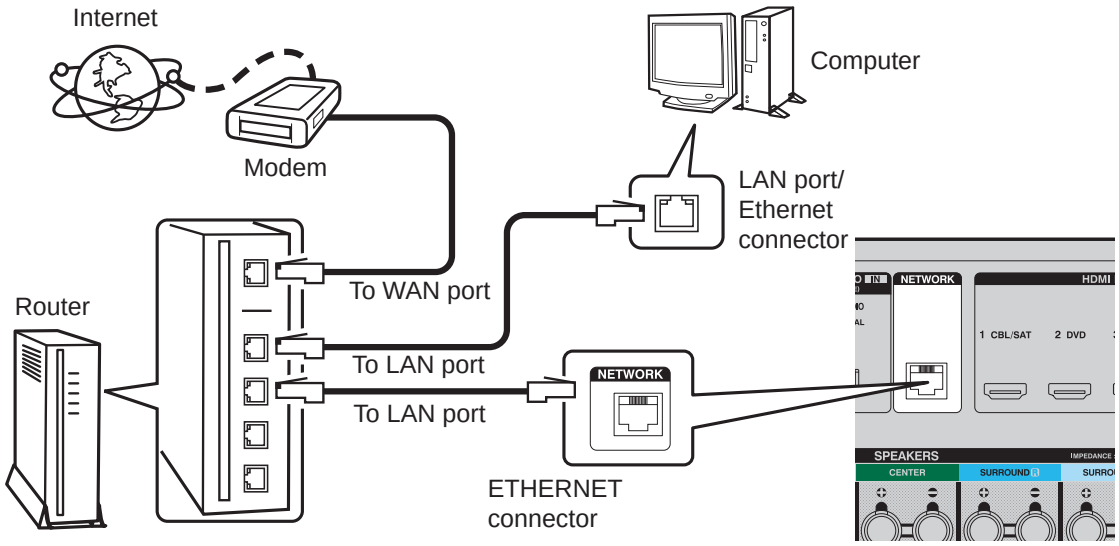
You can update the firmware by downloading the latest version from the Internet.

2.1. Connecting to the Network

(1) System requirements

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

(2) Setting



2.2. Checking and updating the firmware

Check if the latest firmware exists. You can also check approximately time required to complete an update.

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

(2) Use the cursor buttons to select "General" → "Firmware" → "Update" → "Check for Update".

(3) Press the ENTER button.

- The latest version of the firmware on the website is displayed.
- If the firmware on the website is latest, proceed to (4).
- If the latest firmware has been already installed, press the SETUP button to close the menu.

(4) Use the cursor buttons to select "Start", then press the ENTER button.

- During update, the power indicator lights in red and the GUI screen disappears. And an approximately remaining time is indicated on the display.
- When updating is complete the power indicator lights in green and normal status is resumed.

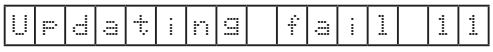
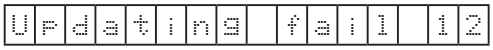
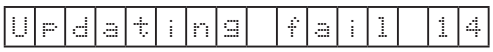
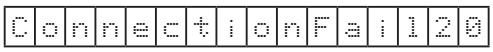
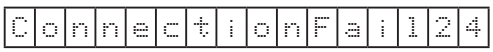
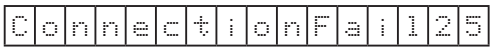
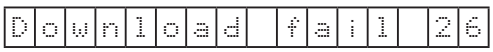
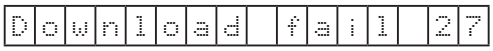
--- Cautions on Firmware Update ---

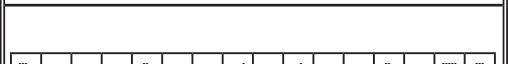
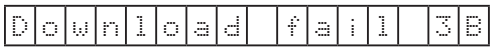
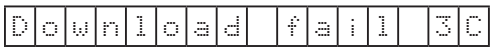
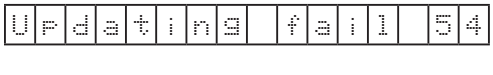
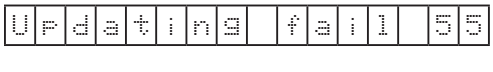
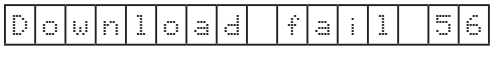
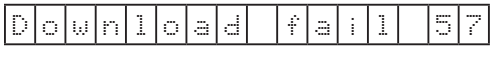
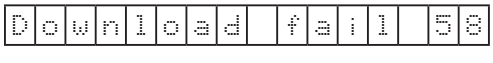
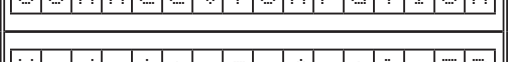
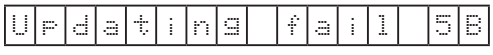
- In order to update the firmware, you must have the correct system requirements and settings for a broadband Internet connection.
- Do not turn off the power until updating is completed.
- Even with a broadband connection to the Internet, approximately 1 hour is required for the updating procedure to be completed.
  Once updating starts, normal operations on the this unit cannot be performed until updating is completed. Also, setting items of the GUI menu of this unit or setting items of the image adjustment may be initialized.
  Note down the settings before updating, and set them again after updating.

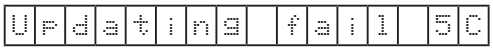
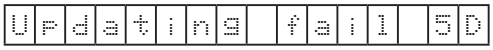
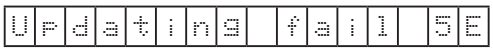
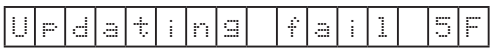
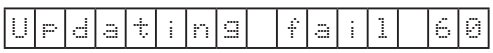
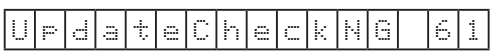
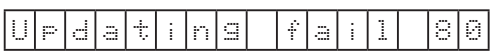
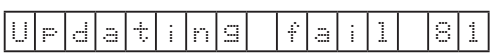
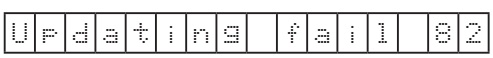
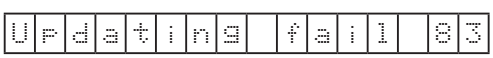
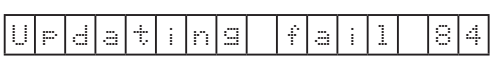
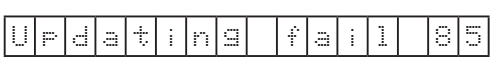
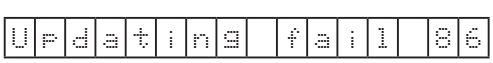
2.3. About the error code

See the table below for error codes, details of faults, and coping strategies when the firmware is updated through DPMS (Denon Product Management Server).

Error Code	Details of Error code	Display	Coping strategies
01	Log-in to DPMS failed.	Login failed 01	Reset and update again. Carry out the update in an environment that has little network load.
02	Line, etc., is busy when logging into DPMS.	Server is busy02	Carry out the update in an environment that has little network load.
03	Connection to DPMS failed.	ConnectionFai103	Check the network connection. Carry out the update in an environment that has little network load.
04	Firmware file data was requested but error message was received.	ConnectionFai104	Check the network connection. Carry out the update in an environment that has little network load.
05	Firmware file data was requested but it timed out.	ConnectionFai105	Check the network connection. Carry out the update in an environment that has little network load.
06	Firmware file data was requested but error message was received.	ConnectionFai106	Check the network connection. Carry out the update in an environment that has little network load.
07	All firmware file data was requested but it timed out.	ConnectionFai107	Check the network connection. Carry out the update in an environment that has little network load.
08	Firmware file data of Main CPU was requested but error message was received.	ConnectionFai108	Check the network connection. Carry out the update in an environment that has little network load.
09	Firmware file data of Main CPU was requested but it timed out.	ConnectionFai109	Check the network connection. Carry out the update in an environment that has little network load.
0A	Error (NG) message was received when firmware of Main CPU was downloaded.	Download fail 0A	Check the network connection. Carry out the update in an environment that has little network load.
0B	Error (line congestion) message was received when firmware of Main CPU was downloaded.	Download fail 0B	Check the network connection. Carry out the update in an environment that has little network load.
0C	Error (connection failure) message was received when firmware of Main CPU was downloaded.	Download fail 0C	Check the network connection. Carry out the update in an environment that has little network load.
0D	Received Package Version is wrong.	Download fail 0D	Check the network connection. Carry out the update in an environment that has little network load.
0E	Connection to DPMS failed. (can not get NTP)	ConnectionFai10E	Check the network connection. Carry out the update in an environment that has little network load.
10	Main CPU failed to receive firmware for rewriting sent from DM860A (when timed out).	Updating fail 10	Turn off and on the power. Updating starts automatically.

Error Code	Details of Error code	Display	Coping strategies
11	Main CPU failed to receive firmware for rewriting sent from DM860A (when an error occurred).		Turn off and on the power. Updating starts automatically.
12	There was invalid data in the firmware for rewriting sent from DM860A to Main CPU (when a Check Sum error occurred).		Turn off and on the power. Updating starts automatically.
13	The deletion of block data failed before Main CPU was rewritten.		Turn off and on the power. Updating starts automatically.
14	The rewriting of block data failed when Main CPU was rewritten.		Turn off and on the power. Updating starts automatically.
15	The data verification was invalid after Main CPU was rewritten.		Turn off and on the power. Updating starts automatically.
20	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (AutoIP).		Check the network connection. Carry out the update in an environment that has little network load.
21	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (when timed out).		Check the network connection. Carry out the update in an environment that has little network load.
22	Log-in to DPMS failed.		Reset and update again. Carry out the update in an environment that has little network load.
23	Line, etc., is busy when logging into DPMS.		Carry out the update in an environment that has little network load.
24	Connection to DPMS failed.		Check the network connection. Carry out the update in an environment that has little network load.
25	Mode change failure of DM860A.		Reset and update again.
26	Data acquisition failed (timed out) when firmware of Main CPU was downloaded. Received Package Version is wrong.		Check the network connection. Carry out the update in an environment that has little network load.
27	Mode change failure of DM860A.		Reset and update again.
36	Log-in to DPMS failed when Main CPU was rewritten.		Carry out the update in an environment that has little network load.
37	Line, etc., is busy when logging into DPMS when Main CPU was rewritten.		Carry out the update in an environment that has little network load.
38	Connection to DPMS failed when Main CPU was rewritten.		Check the network connection. Carry out the update in an environment that has little network load.

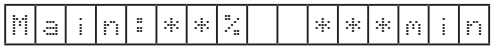
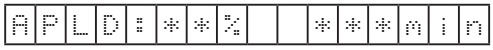
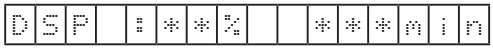
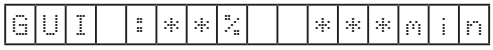
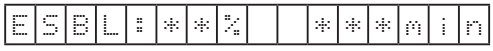
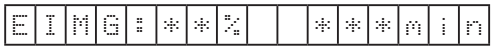
Error Code	Details of Error code	Display	Coping strategies
39	Connection to DPMS timed out when Main CPU was rewritten.		Check the network connection. Carry out the update in an environment that has little network load.
3A	Error (NG) message was received when firmware was downloaded or Main CPU was rewritten.		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3B	Error (line congestion) message received when downloading firmware when Main CPU was rewritten.		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3C	Error (connection failure) message received when downloading firmware when Main CPU was rewritten.		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3D	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (AutoIP).		Check the network connection. Carry out the update in an environment that has little network load.
3E	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (when timed out).		Check the network connection. Carry out the update in an environment that has little network load.
50	Log-in to DPMS failed when firmware such as DSP and PLD was rewritten.		Carry out the update in an environment that has little network load.
51	Line, etc., is busy when the log-in to DPMS when firmware such as DSP and PLD was rewritten.		Carry out the update in an environment that has little network load.
52	Connection to DPMS failed when firmware such as DSP and PLD was rewritten.		Check the network connection. Carry out the update in an environment that has little network load.
54	Error message received regarding firmware data after the log-in to DPMS when firmware such as DSP and PLD was rewritten.		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
55	When firmware such as DSP and PLD was rewritten, request was made for firmware data after the log-in to DPMS, but it timed out.		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
56	Downloading firmware failed after the log-in to DPMS when firmware such as DSP and PLD was rewritten.		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
57	Firmware download error received (line congestion) after the log-in to DPMS when firmware such as DSP and PLD was rewritten.		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
58	Firmware download error received (connection failure) after the log-in to DPMS when firmware such as DSP and PLD was rewritten.		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
5A	NACK was received when "C" command sent to DSP, PLD etc.		Turn off and on the power. Updating starts automatically.
5B	NACK was received when "L" command sent to DSP, PLD etc.		Turn off and on the power. Updating starts automatically.

Error Code	Details of Error code	Display	Coping strategies
5C	DSP, PLD etc. failed to receive firmware for rewriting sent from DM860A (when timed out).		Turn off and on the power. Updating starts automatically.
5D	DSP, PLD etc. failed to receive firmware for rewriting sent from DM860A (when an error occurred).		Turn off and on the power. Updating starts automatically.
5E	Data in firmware such as DSP and PLD for rewriting sent from DM860A was invalid (when a Check Sum error occurred).		Turn off and on the power. Updating starts automatically.
5F	Invalid data in firmware such as DSP and PLD for rewriting sent from DM860A was invalid (invalid data was received).		Turn off and on the power. Updating starts automatically.
60	NACK was received when "P" command sent to DSP, PLD etc.		Turn off and on the power. Updating starts automatically.
61	NACK was received when "I" command sent to DSP, PLD etc.		Turn off and on the power. Updating starts automatically.
80	Acquisition of serial flash data failed before serial flash was deleted.		Turn off and on the power. Updating starts automatically.
81	Deleting data failed before serial flash was rewritten.		Turn off and on the power. Updating starts automatically.
82	Receiving firmware for rewriting serial flash sent by DM860A failed (when timed out).		Turn off and on the power. Updating starts automatically.
83	Receiving firmware for rewriting serial flash sent by DM860A failed (when an error).		Turn off and on the power. Updating starts automatically.
84	Receiving firmware for rewriting serial flash sent by DM860A failed (when a Check Sum error).		Turn off and on the power. Updating starts automatically.
85	Receiving firmware for rewriting serial flash sent by DM860A failed (when invalid data was received).		Turn off and on the power. Updating starts automatically.
86	The data verification was invalid after serial flash was rewritten.		Turn off and on the power. Updating starts automatically.
A0	Acquisition of (Application Mode) IP address failed before DM860A was rewritten (AutoIP).		Check the network connection. Carry out the update in an environment that has little network load.
A1	Acquisition of (Application Mode) IP address failed before DM860A was rewritten (when timed out).		Check the network connection. Carry out the update in an environment that has little network load.
A2	Invalid login via DPMS access was notified when DM860A related firmware was rewritten (Application Mode).		Check the network connection. Carry out the update in an environment that has little network load.

Error Code	Details of Error code	Display	Coping strategies
A3	Line congestion via DPMS access was notified when DM860A related firmware was rewritten (Application Mode).	Server is busy A3	Check the network connection. Carry out the update in an environment that has little network load.
A4	Connection failure via DPMS access was notified when DM860A related firmware was rewritten (Application Mode).	ConnectionFail A4	Check the network connection. Carry out the update in an environment that has little network load.
A6	Firmware data error message was received after DPMS login when DM860A related firmware was rewritten (Application Mode).	Updating fail A6	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
A7	When DM860A related firmware was rewritten (Application Mode), request was made for firmware data after DPMS login but it timed out.	Updating fail A7	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
AE	Firmware download error message received (when download fails) when DM860A related firmware was rewritten (Boot Loader Mode).	Download fail AE	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
AF	Firmware download error message received (line congestion) when DM860A related firmware was rewritten (Boot Loader Mode).	Download fail AF	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B0	Firmware download error message received (connection failure) when DM860A related firmware was rewritten (Boot Loader Mode).	Download fail B0	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B1	Firmware download error message. (Timeout failure)	Download fail B1	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B2	Error message received when DM860A related firmware was rewritten.	Download fail B2	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B3	Firmware writing error message. (Timeout failure)	Updating fail B3	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B4	Mode change failure of DM860A. (Boot Loader Mode)	Updating fail B4	Reset and update again.
B5	Mode change failure of DM860A. (Application Mode)	Updating fail B5	Reset and update 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
DM860A Boot Loader		A0 - A4 A6 - A7 AE - B5
DM860A Image		A0 - A4 A6 - A7 AE - B5
DM860A Image (EmergencyMode)		–

Confirming the firmware's number after upgraded

After updating the firmware, check the version. Refer to "**1. µcom/DSP Version display mode**" (20 page).

3. How to update by USB Memory

You can update the firmware by downloading the latest version with USB Memory.

3.1. Connecting to the Network

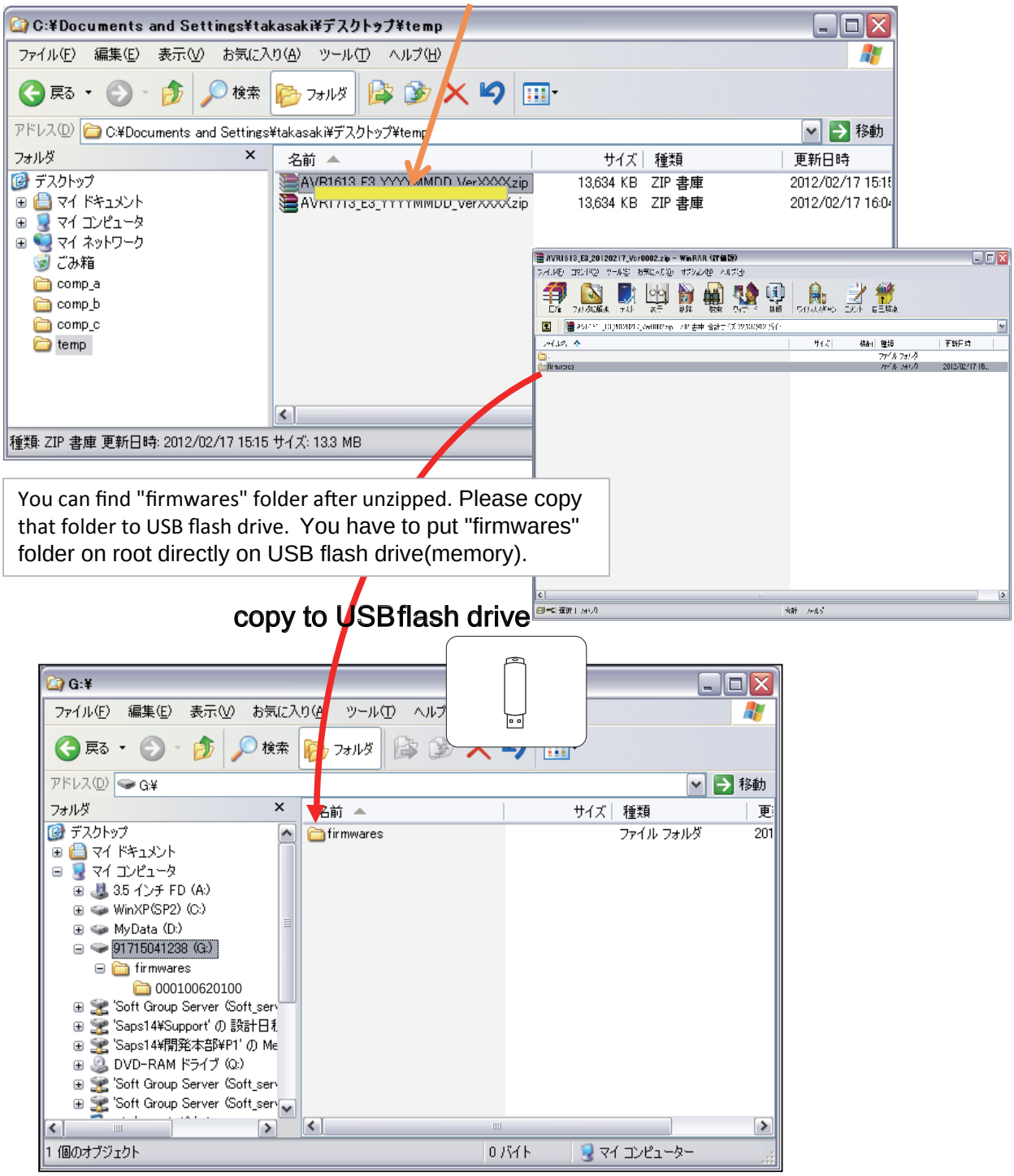
(1) Requirements

- USB Memory capacity : FAT16 : 2 GB, FAT32 : 2 TB
- USB memory devices will not work via a USB hub.
- It is not possible to use this unit by connecting the unit's USB port to a PC via a USB cable.
- Do not use an extension cable when connecting a USB memory device.
  This may cause radio interference.

3.2. Unzip Download File

Pleases unzip the downloaded file on PC

AVRE300 E3	USB_AVR-E300E3_000100620100-0001.zip



3.3. Copy for USB flash drive

USB location is below

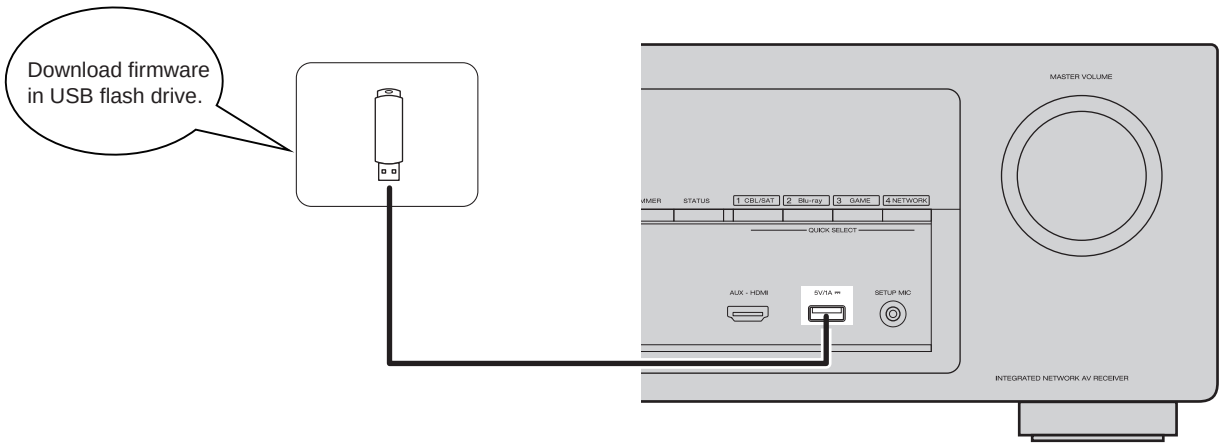
USB memory root

Model Name	Model Area	Product ID
AVRE300	North America (E3)	000100630700
AVRX1000	North America (E3)	000100630100
	Europe (E2)	000100630200
	China (E1C)	000100630500
AVRX1010	China (E1C)	000100630800

+ firmwares
  + 000100630X00
    + APLD.bin
    + DSP.bin
    + enc_update.xml
    + GUI.bin
    + IMG.bcd
    + MAIN.bin
    + SBL.bcd
    + SUB.bin

3.4. Insert the USB memory into a USB port

NOTE: Please UNPLUG LAN cable from the unit during update.



3.5. Start update

Turn on the power of this unit in the "STATUS" + "OPTION" button.

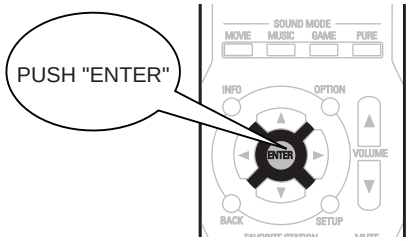
3.6. "USB Update Start" on FL Display

After arround half minutes, FL display shows the following message.

FL Display

Upper	*	F	I	R	M	W	A	R	E		U	P	D	A	T	E
Lower	U	S	B		U	p	d	a	t	e		S	t	a	r	t

3.7. Push "ENTER" key on RC or Main unit



Then start Firmware Update.

FL Display

Upper	P	l	e	a	s	e		w	a	i	t	.	.	.		
Lower	U	p	d	a	t	e	F	i	l	e	C	h	e	c	k	

3.8. Finish firmware update

FL display shows the following message.

FL Display

Upper	F	i	r	m		U	p	d	a	t	e					
Lower	U	p	d	a	t	i	n	g	C	o	m	p	l	e	t	e

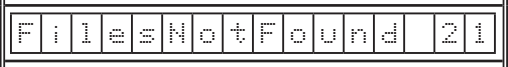
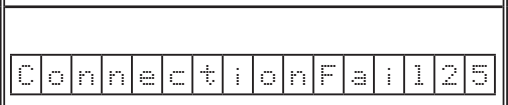
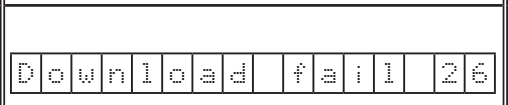
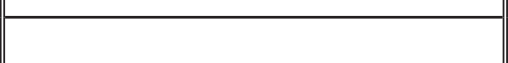
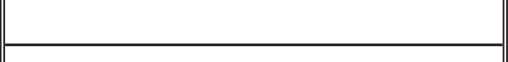
--- Cautions on Firmware Update ---

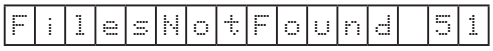
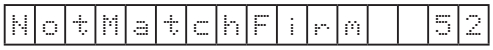
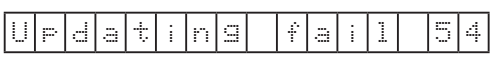
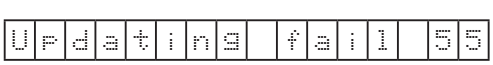
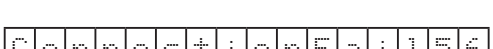
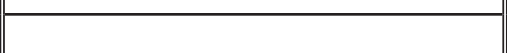
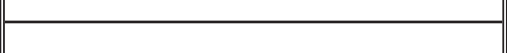
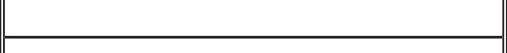
- Do not remove a USB memory until updating is completed.
- Do not turn off the power until updating is completed.
  Approximately 1 hour is required for the updating procedure to be completed.
  Once updating starts, normal operations on the this unit cannot be performed until updating is completed. Also, setting items of the GUI menu of this unit or setting items of the image adjustment may be initialized.
  Note down the settings before updating, and set them again after updating.

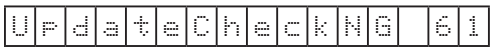
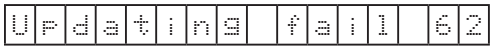
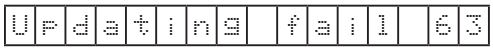
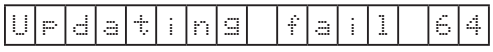
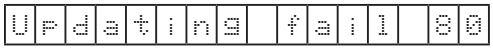
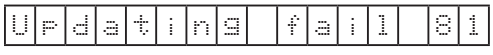
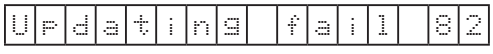
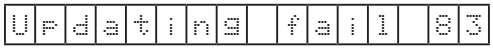
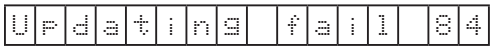
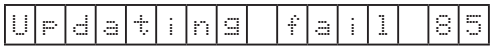
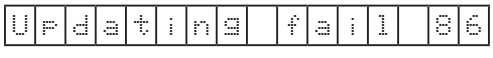
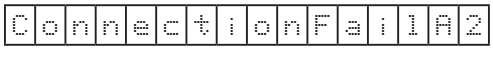
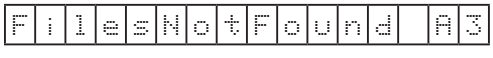
3.3. About the error code

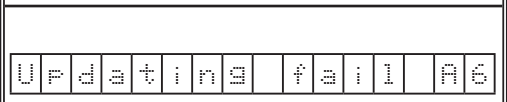
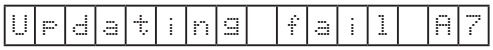
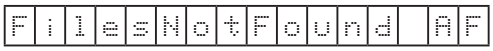
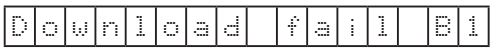
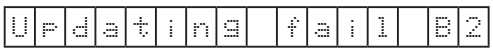
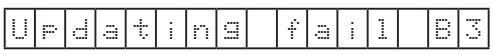
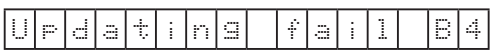
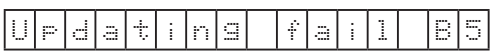
See the table below for error codes and details of faults when the firmware is updated through USB memory.

Error Code	Details of Error code	Display	Coping strategies
01	Unable to detect USB.	ConnectionFail01	Disconnect and connect the USB memory.
02	No FirmwareFile in USB.	FileNotFound 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.	ConnectionFail06	Start the USB Update again.
05	TimeOut while obtaining individual Firmware information	ConnectionFail07	Start the USB Update again.
06	Failed to obtain entire Firmware information.	ConnectionFail04	Start the USB Update again.
07	TimeOut while obtaining entire Firmware information	ConnectionFail05	Start the USB Update again.
08	Error notification received while requesting FirmwareInfo.	ConnectionFail08	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the ⏻ button for five seconds.
09	TimeOut while obtaining Firmware information	ConnectionFail09	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the ⏻ button for five seconds.
0A	Unable to detect USB for FirmwareDownload.	ConnectionFail0A	Disconnect and connect the USB memory.
0B	No FirmwareFile for FirmwareDownload.	FileNotFound 0B	Disconnect and connect the USB memory.
0D	Received value with invalid PackageVersion.	ConnectionFail0D	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the ⏻ button for five seconds.
10	No UpdatePacket received from DM860A (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 ⏻ button for five seconds.
11	Abnormal data in UpdatePacket received from DM860A (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 ⏻ button for five seconds.
12	Abnormal data in UpdatePacket received from DM860A (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 ⏻ button for five seconds.
13	BlockErase failed before rewriting Main.	Erase fail 13	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 ⏻ button for five seconds.
14	BlockWrite failed while rewriting Main.	Updating fail 14	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 ⏻ button for five seconds.
15	Error in Verify after rewriting Main (CheckSumError).	UpdateCheckNG 15	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 ⏻ button for five seconds.
20	Unable to detect USB after SBLMode.	ConnectionFail20	Disconnect and connect the USB memory.

Error Code	Details of Error code	Display	Coping strategies
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 ⏻ 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 ⏻ 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 ⏻ 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 ⏻ 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 ⏻ 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 ⏻ 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 ⏻ button for five seconds.
39	TimeOut in USBCheck		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 ⏻ button for five seconds.
3A	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 ⏻ button for five seconds.
3B	No FirmwareFile 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 ⏻ button for five seconds.
3F	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 ⏻ button for five seconds.
50	Unable to detect USB.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the ⏻ button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
51	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 ⏻ button for five seconds.
52	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 ⏻ button for five seconds.
54	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 ⏻ button for five seconds.
55	TimeOut while obtaining Firmware		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 ⏻ button for five seconds.
56	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 ⏻ button for five seconds.
57	No FirmwareFile 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 ⏻ button for five seconds.
5A	Invalid DeviceID in response or no response from Sub for C command.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the ⏻ button for five seconds.
5B	NACK received in response or no response from Sub for L command.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the ⏻ button for five seconds.
5C	No UpdatePacket received from DM860A (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 ⏻ button for five seconds.
5D	Abnormal data in UpdatePacket received from DM860A (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 ⏻ button for five seconds.
5E	Abnormal data in UpdatePacket received from DM860A (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 ⏻ button for five seconds.
5F	Abnormal data in UpdatePacket received from DM860A (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 ⏻ 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 ⏻ button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
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 ⏻ 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 ⏻ 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 ⏻ 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 ⏻ 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 ⏻ 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 ⏻ button for five seconds.
82	No UpdatePacket received from DM860A (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 ⏻ button for five seconds.
83	Abnormal data in UpdatePacket received from DM860A (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 ⏻ button for five seconds.
84	Abnormal data in UpdatePacket received from DM860A (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 ⏻ button for five seconds.
85	Abnormal data in UpdatePacket received from DM860A (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 ⏻ button for five seconds.
86	Mismatched CheckSum in CheckSum 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 ⏻ 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 ⏻ 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 ⏻ button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
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 ⏻ 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 ⏻ button for five seconds.
A7	TimeOut while obtaining Firmware		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 ⏻ 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 ⏻ button for five seconds.
AF	No FirmwareFile 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 ⏻ 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 ⏻ button for five seconds.
B2	Error notification received after rewriting DM860A 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 ⏻ button for five seconds.
B3	Error in FirmwareUpdate (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 ⏻ button for five seconds.
B4	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 ⏻ button for five seconds.
B5	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 ⏻ button for five seconds.

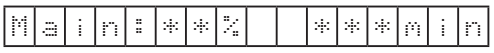
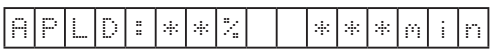
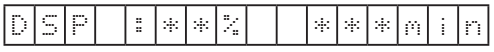
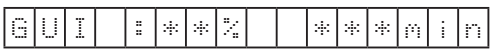
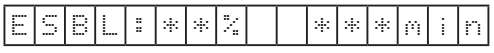
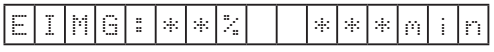
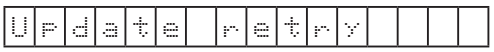
--- Cautions on Firmware Update ---

When an error code as shown above appears in the DISPLAY, check the following:

- Check whether the Firmware downloaded to the USB memory is correct (whether the MODEL name and area of the downloaded Firmware match those for the product, and whether the USB Memory contains data other than the latest Firmware).
- Update after resetting the product.
- Use a different USB memory.

3.4. 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
DM860A Boot Loader		A0 - A4 A6 - A7 AE - B5
DM860A Image		A0 - A4 A6 - A7 AE - B5
DM860A Image (EmergencyMode)		–

Confirming the firmware's number after upgraded

After updating the firmware, check the version. Refer to "**1. µcom/DSP Version display mode**" (20 page).

ADJUSTMENT

Audio Section

Adjusting Idling Current

Required measurement equipment: DC Voltmeter

1. Preparation

(1) Avoid direct blow from an air conditioner or an electric fan and humidity should be moderate, and place the set at normal usage environment.
Temperature should be at 15 °C ~ 30 °C (59 °F ~ 86 °F).

(2) Presetting

- POWER (Power source switch) OFF
- SPEAKER (Speaker terminal) No load

(Do not connect speaker, dummy resistor, etc.)

2. Adjustment

(1) Remove the top cover and set VR510(FL), VR550(FR), VR530(C), VR520(SL), VR540(SR), on MAIN PCB at fully counterclockwise (↺) position.

(2) Connect DC Voltmeter to test points (FRONT-Lch: CN510, FRONT-Rch: CN550, CENTER ch: CN530, SURROUND-Lch: CN520, SURROUND-Rch: CN540).

(3) Connect the power cord to AC Line, and set the power switch to "ON".

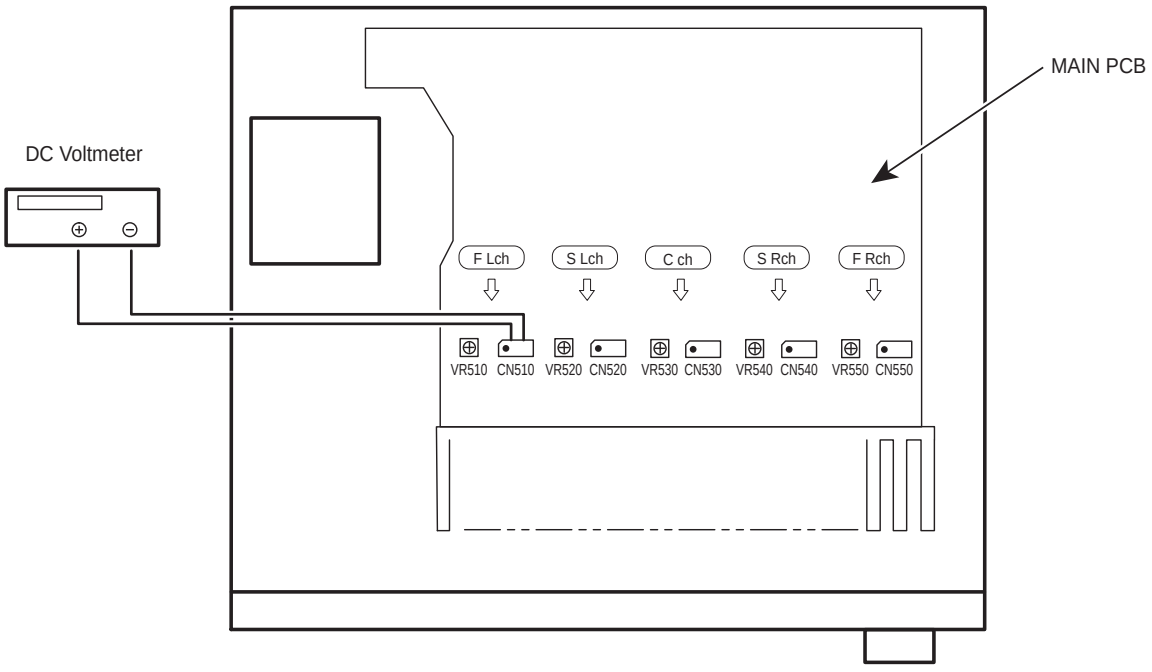
(4) Presetting.

MASTER VOLUME : ↺ minimum
SPEAKER (Speaker terminal) : No load
(Do not connect speaker, dummy resistor, etc.)
MODE : MCH STEREO
FUNCTION : CBL/SAT

(5) Within 2 minutes after the power on, turn VR510 clockwise (↻) to adjust the TEST POINT voltage at 1.5mV ± 0.5mV DC.

(6) After 10 minutes from the preset above, turn VR510 to set the voltage to 2.0mV ± 0.5mV DC.

(7) Adjust the Variable Resistors of each channel(VR520-VR550) in the same way.



Surround

This unit is equipped with a sophisticated digital signal processing circuit that lets you play your favorite movie and music sources and listen to them with a wide range of surround sound mode choices.

Sound modes and surround parameters

This table shows the speakers that can be used in each sound mode and the surround parameters adjustable in each sound mode.

Symbols in the table

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

Sound Mode	Channel output				Surr.Parameter						
	Front L/R	Center	Surround L/R	Subwoofer	Cinema EQ	Loudness Mngmt ∗1	Dynamic Comp. ∗2	Low Frequency ∗3	Delay Time	Effect Level	Room Size
DIRECT (2-channel)	○			◎∗4		○	○				
DIRECT (Multi-channel)	○	◎	◎	◎		○	○	○			
STEREO	○			◎		○	○	○			
MULTI CH IN	○	◎	◎	◎				○			
DOLBY PRO LOGIC Ⅱ	○	◎	◎	◎	○∗5	○	○				
DOLBY DIGITAL	○	◎	◎	◎	○		○	○			
DOLBY DIGITAL Plus	○	◎	◎	◎	○		○	○			
DOLBY TrueHD	○	◎	◎	◎	○	○	○	○			
DTS NEO:6	○	◎	◎	◎	○∗6	○	○				
DTS SURROUND	○	◎	◎	◎	○		○	○			
DTS 96/24	○	◎	◎	◎	○		○	○			
DTS-HD	○	◎	◎	◎	○		○	○			
DTS Express	○	◎	◎	◎	○		○	○			
MULTI CH STEREO	○	◎	◎	◎		○	○	○			
ROCK ARENA	○	◎	◎	◎		○	○	○		○	○
JAZZ CLUB	○	◎	◎	◎		○	○	○		○	○
MONO MOVIE	○	◎	◎	◎		○	○	○		○	○
VIDEO GAME	○	◎	◎	◎		○	○	○		○	○
MATRIX	○	◎	◎	◎		○	○	○	○		
VIRTUAL	○			◎		○	○	○			

∗1 This item can be selected when a Dolby TrueHD signal is played.
∗2 This item can be selected when a 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 Only when “Subwoofer Mode” is set to “LFE+Main” , sound is output from the subwoofer.
∗5 This setting is possible when the sound mode is “PLⅡ Cinema”.
∗6 This setting is possible when the sound mode is “DTS NEO:6 Cinema”.

Sound Mode	Surr.Parameter				Tone ∗7	Audyssey			Restorer ∗10
	PRO LOGIC Ⅱ Music mode only			NEO:6 Music mode only					
	Panorama	Dimension	Center Width	Center Image		MultEQ® ∗8	Dynamic EQ ∗9	Dynamic Volume ∗9	
DIRECT (2-channel)									
DIRECT (Multi-channel)									
STEREO					○	○	○	○	○
MULTI CH IN					○	○	○	○	
DOLBY PRO LOGIC Ⅱ	○	○	○		○	○	○	○	○
DOLBY DIGITAL					○	○	○	○	
DOLBY DIGITAL Plus					○	○	○	○	
DOLBY TrueHD					○	○	○	○	
DTS NEO:6				○	○	○	○	○	○
DTS SURROUND					○	○	○	○	
DTS 96/24					○	○	○	○	
DTS-HD					○	○	○	○	
DTS Express					○	○	○	○	
MULTI CH STEREO					○	○	○	○	○
ROCK ARENA					○∗11	○	○	○	○
JAZZ CLUB					○	○	○	○	○
MONO MOVIE					○	○	○	○	○
VIDEO GAME					○	○	○	○	○
MATRIX					○	○	○	○	○
VIRTUAL					○	○	○	○	○

∗7 This item cannot be set when “Dynamic EQ” is set to “On”.
∗8 For HD Audio whose sampling frequency of an input signal is more than 96 kHz, this sound parameter cannot be set.
∗9 This item cannot be set when “MultEQ®” is set to “Off” or “Manual EQ”.
∗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 table shows the input signal that can be played in each sound mode. Check the audio signal of the input source then select the sound mode.

Symbols in the table

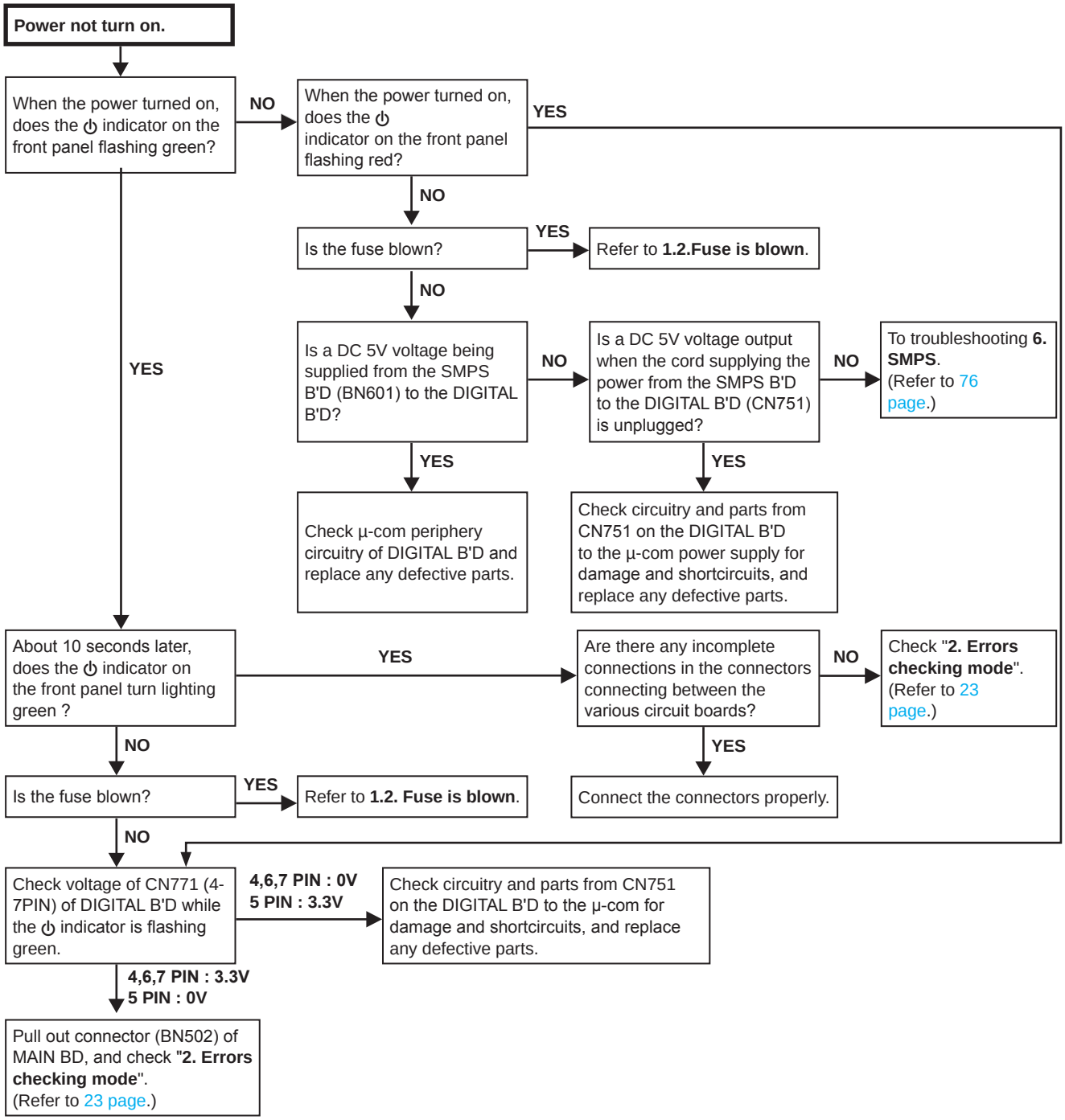
● This indicates the default sound mode.
○ This indicates the selectable sound mode.

Sound Mode	Input signal types and formats															
	ANALOG	PCM		DTS-HD		DTS					DOLBY		DOLBY DIGITAL			
		PCM (Multi-channel)	PCM (2-channel)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1-channel)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1-channel)	DOLBY DIGITAL (2-channel)
DTS SURROUND																
DTS-HD MSTR				●												
DTS-HD HI RES					●											
DTS SURROUND							○	○	●							
DTS 96/24										●						
DTS EXPRESS						●										
DTS NEO:6 CINEMA	○		○													○
DTS NEO:6 MUSIC	○		○													○
DOLBY SURROUND																
DOLBY TrueHD											●					
DOLBY DIGITAL+												●				
DOLBY DIGITAL													○	●	●	
DOLBY PRO LOGIC Ⅱ CINEMA	○		○													○
DOLBY PRO LOGIC Ⅱ MUSIC	○		○													○
DOLBY PRO LOGIC Ⅱ GAME	○		○													○
MULTI CH IN																
MULTI CH IN		●														
DIRECT																
DIRECT	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
DSP SIMULATION																
MULTI CH STEREO	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ROCK ARENA	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
JAZZ CLUB	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MONO MOVIE	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VIDEO GAME	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MATRIX	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VIRTUAL	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
STEREO																
STEREO	●	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○

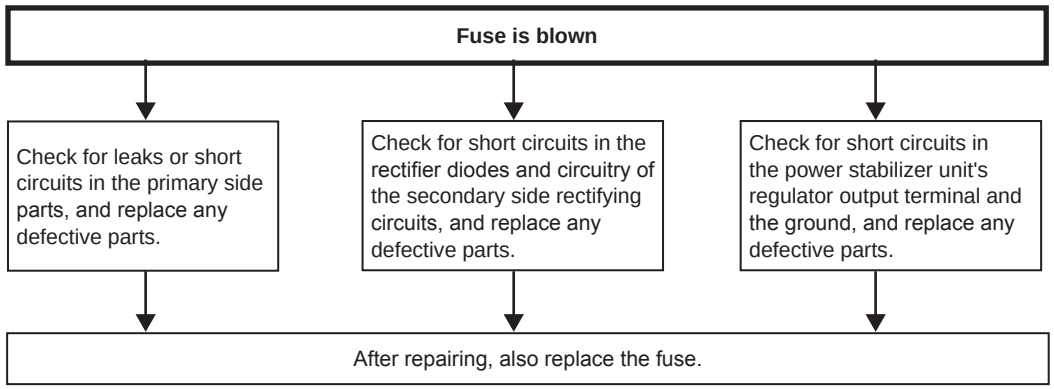
TROUBLE SHOOTING

1. POWER

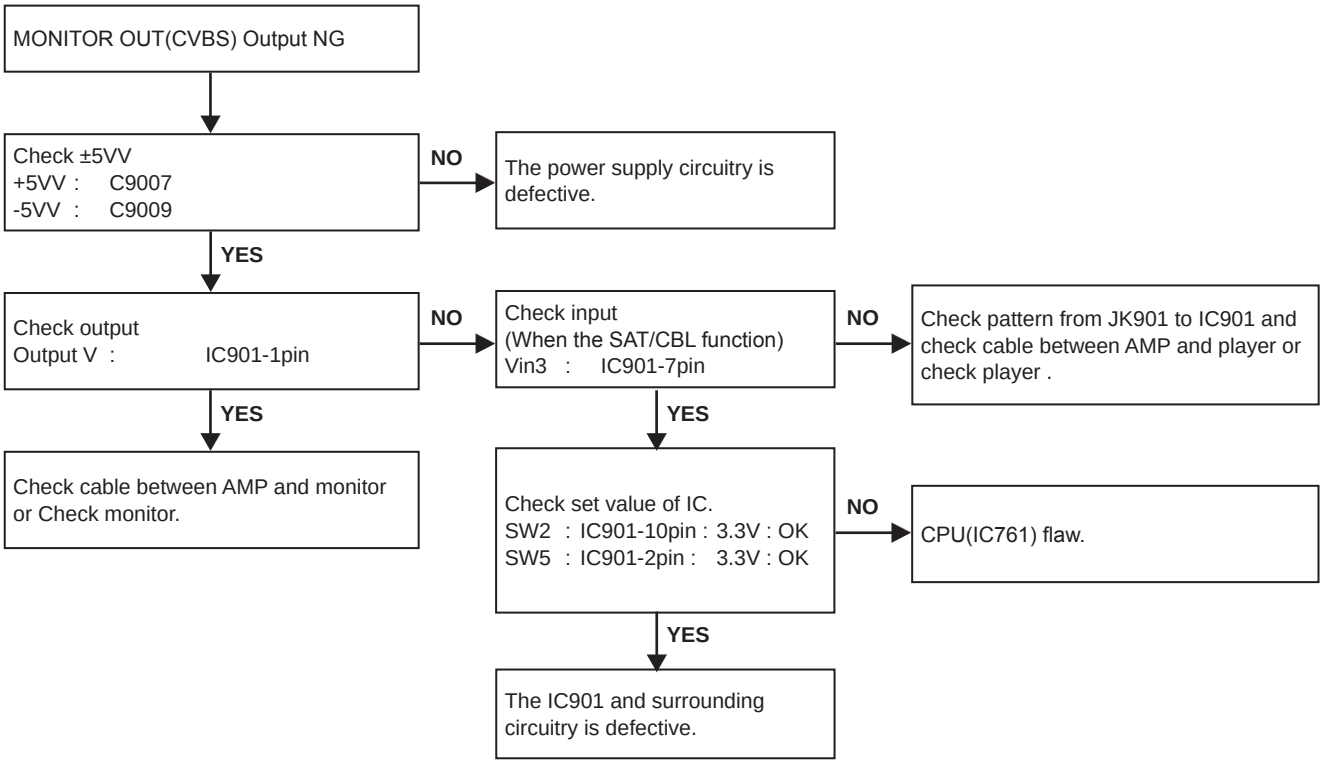
1.1. Power not turn on



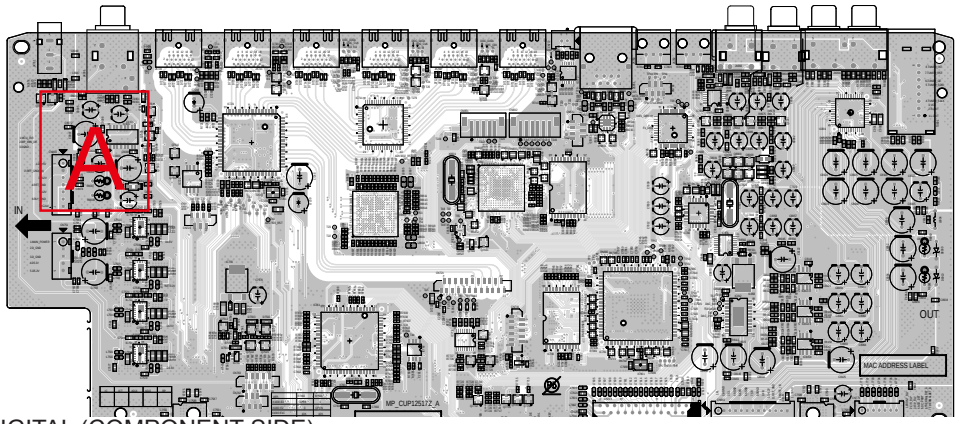
1.2. Fuse is blown



2. Analog video

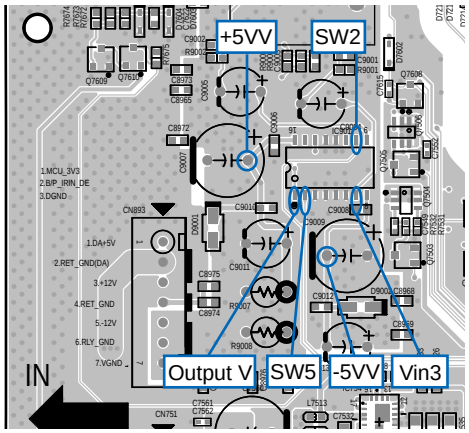


VIDEO test point



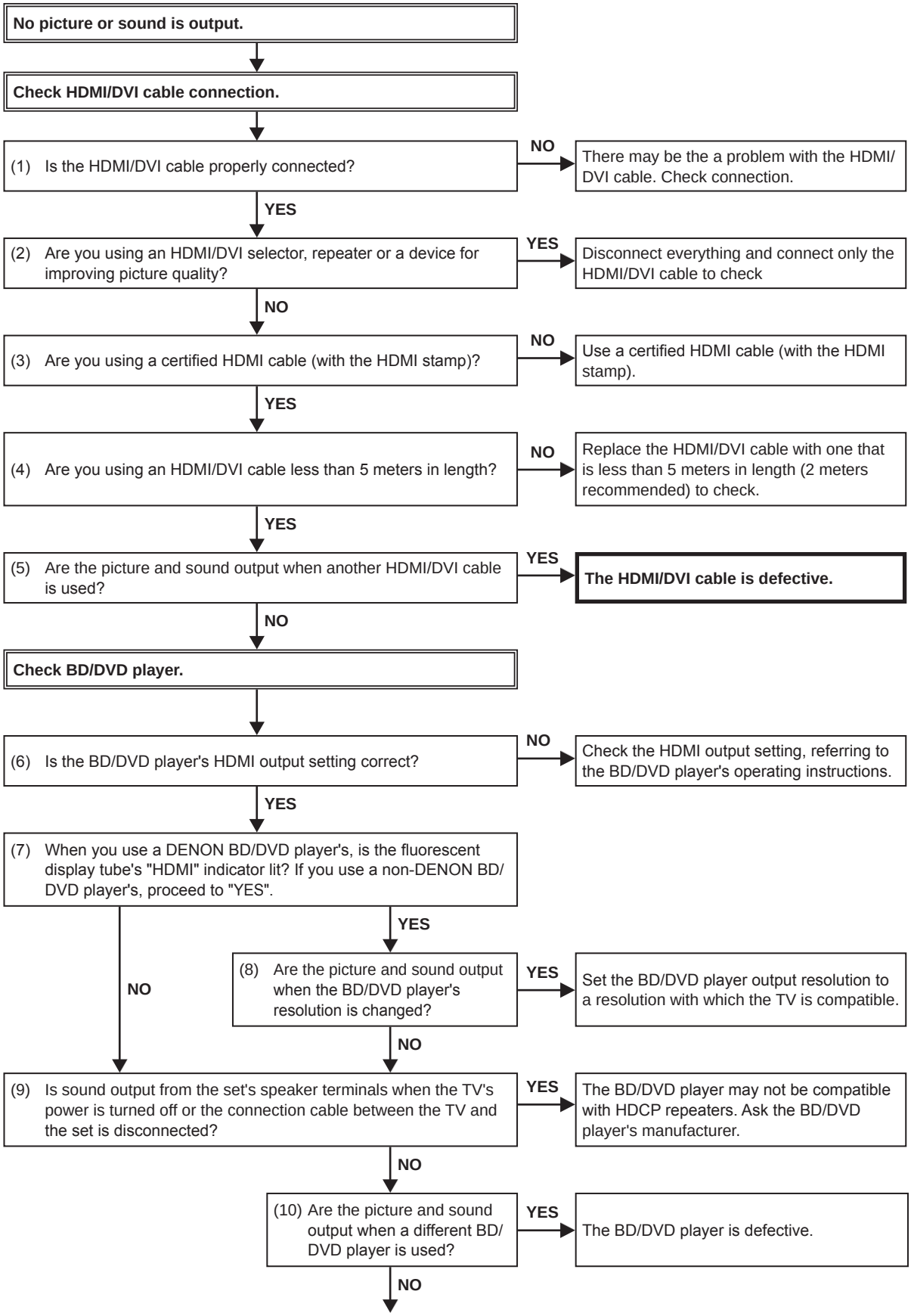
DIGITAL (COMPONENT SIDE)

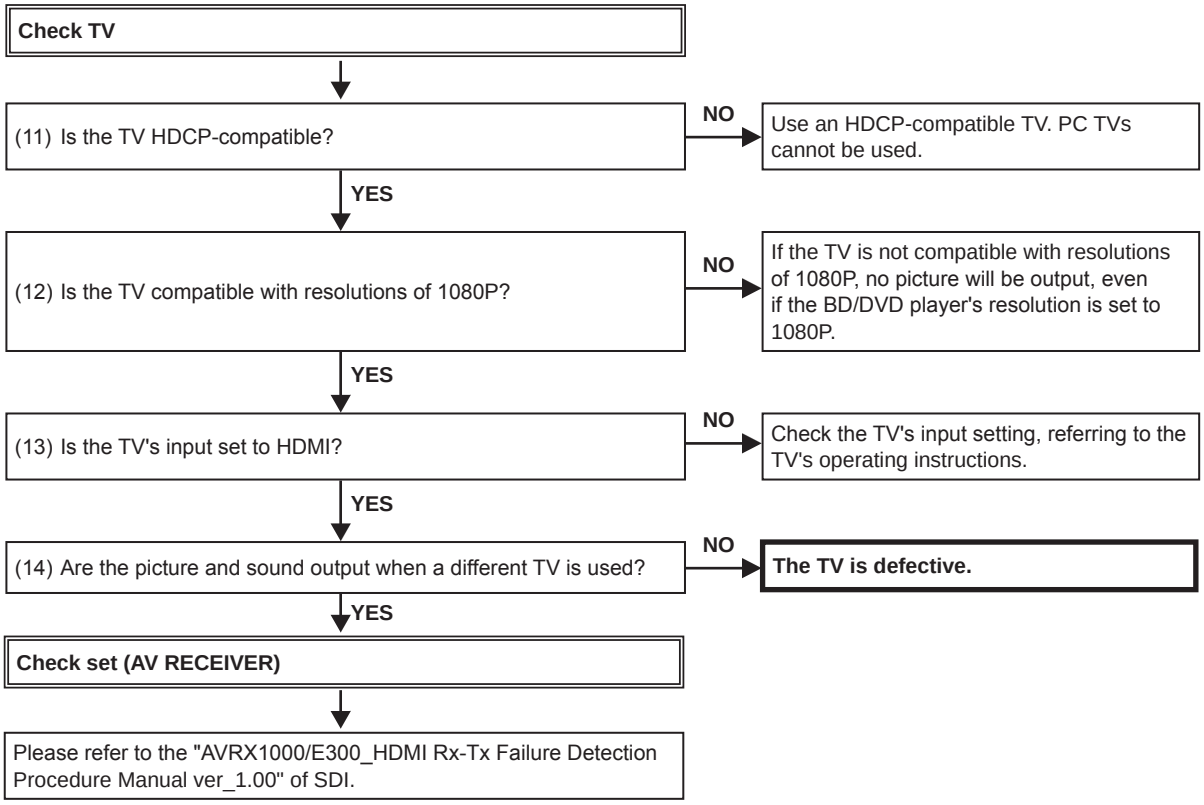
Detail A



3. HDMI/DVI

3.1. No picture or sound is output




Check TV
(11) Is the TV HDCP-compatible?
NO
Use an HDCP-compatible TV. PC TVs cannot be used.
YES
(12) Is the TV compatible with resolutions of 1080P?
NO
If the TV is not compatible with resolutions of 1080P, no picture will be output, even if the BD/DVD player's resolution is set to 1080P.
YES
(13) Is the TV's input set to HDMI?
NO
Check the TV's input setting, referring to the TV's operating instructions.
YES
(14) Are the picture and sound output when a different TV is used?
NO
The TV is defective.
YES
Check set (AV RECEIVER)
Please refer to the "AVRX1000/E300_HDMI Rx-Tx Failure Detection Procedure Manual ver_1.00" of SDI.

4. AUDIO

4.1. AUDIO CHECK

Audio output NG.

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

NO → Check ANALOG audio BLOCK.

YES

CHECK2	INPUT	SURROND MODE	SOURCE
Audio output OK?	COAX or OPT	Don't care	Legacy (PCM or DolbyDigital or dts…)

NO → Check Digital audio BLOCK.

YES

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

NO → Check ADC BLOCK

YES

CHECK4	INPUT	SURROND MODE	SOURCE
Audio output OK?	HDMI	Don't care	Legacy (PCM2ch or DolbyDigital or dts…)

NO → Check HDMI BLOCK.

YES

CHECK5	INPUT	SURROND MODE	SOURCE
Audio output OK?	HDMI	Don't care	HBR audio (DolbyTrueHD or dtsHD MA)

YES (Digital audio Block is OK) → Check other factors.

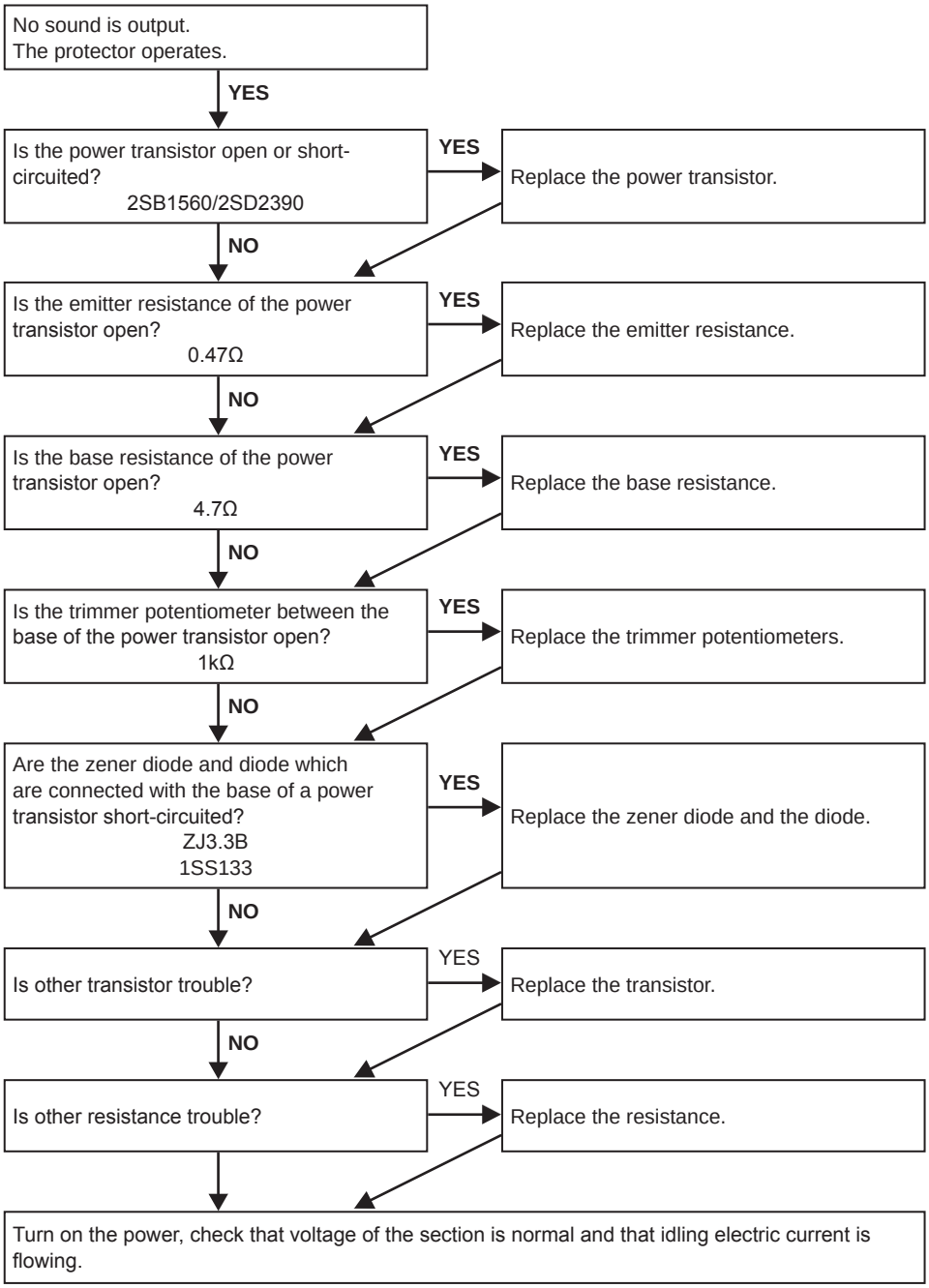
NO

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

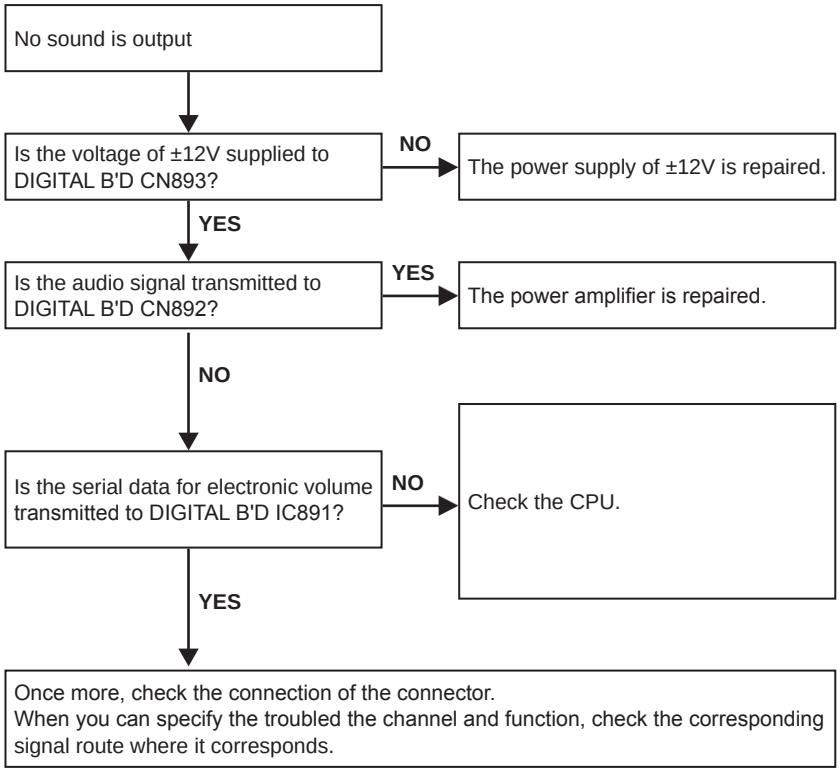
YES → Check Digital audio BLOCK

NO → Check HDMI BLOCK.

4.2. Power AMP (MAIN UNIT)

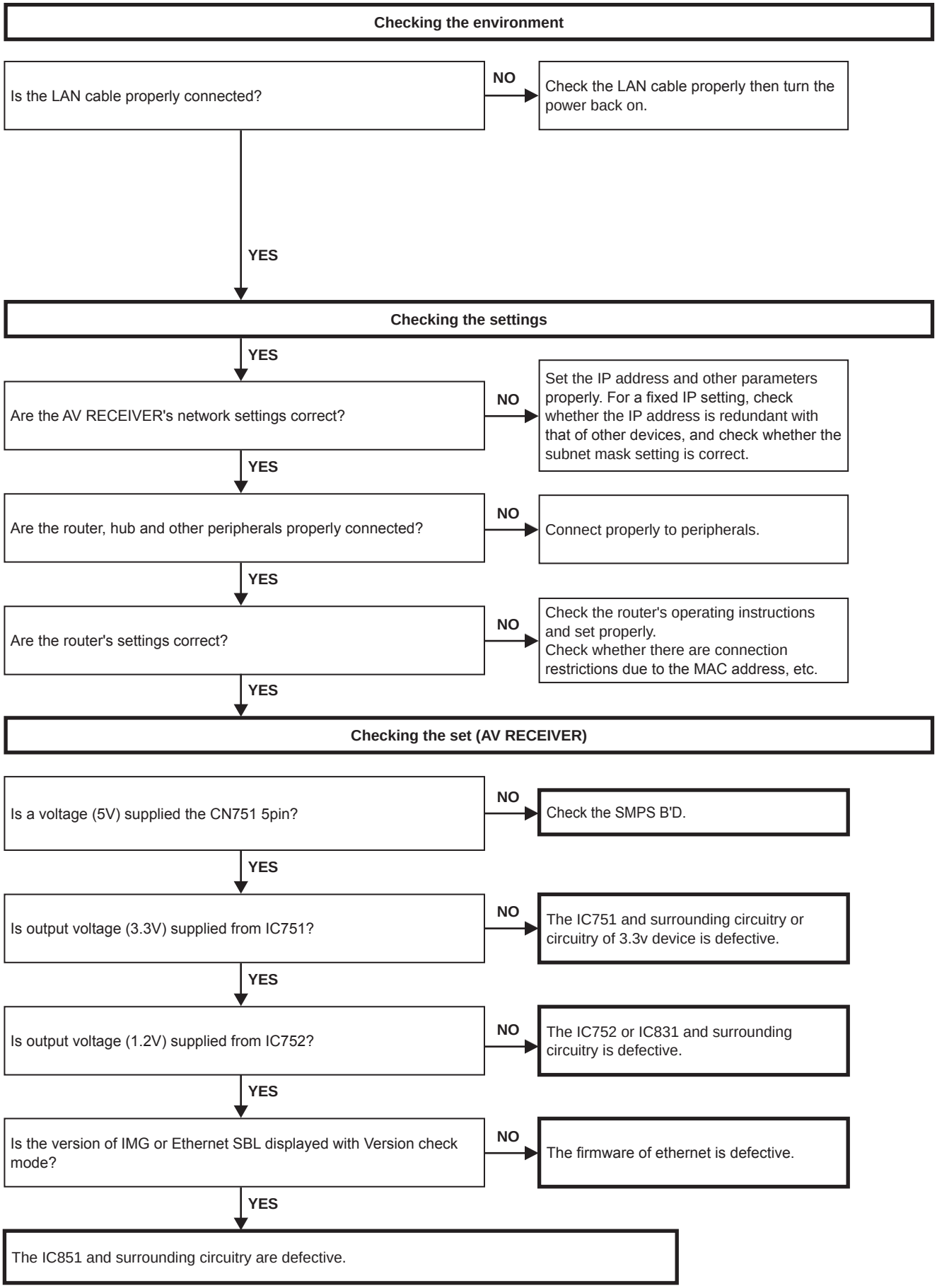


4.3. Analog audio

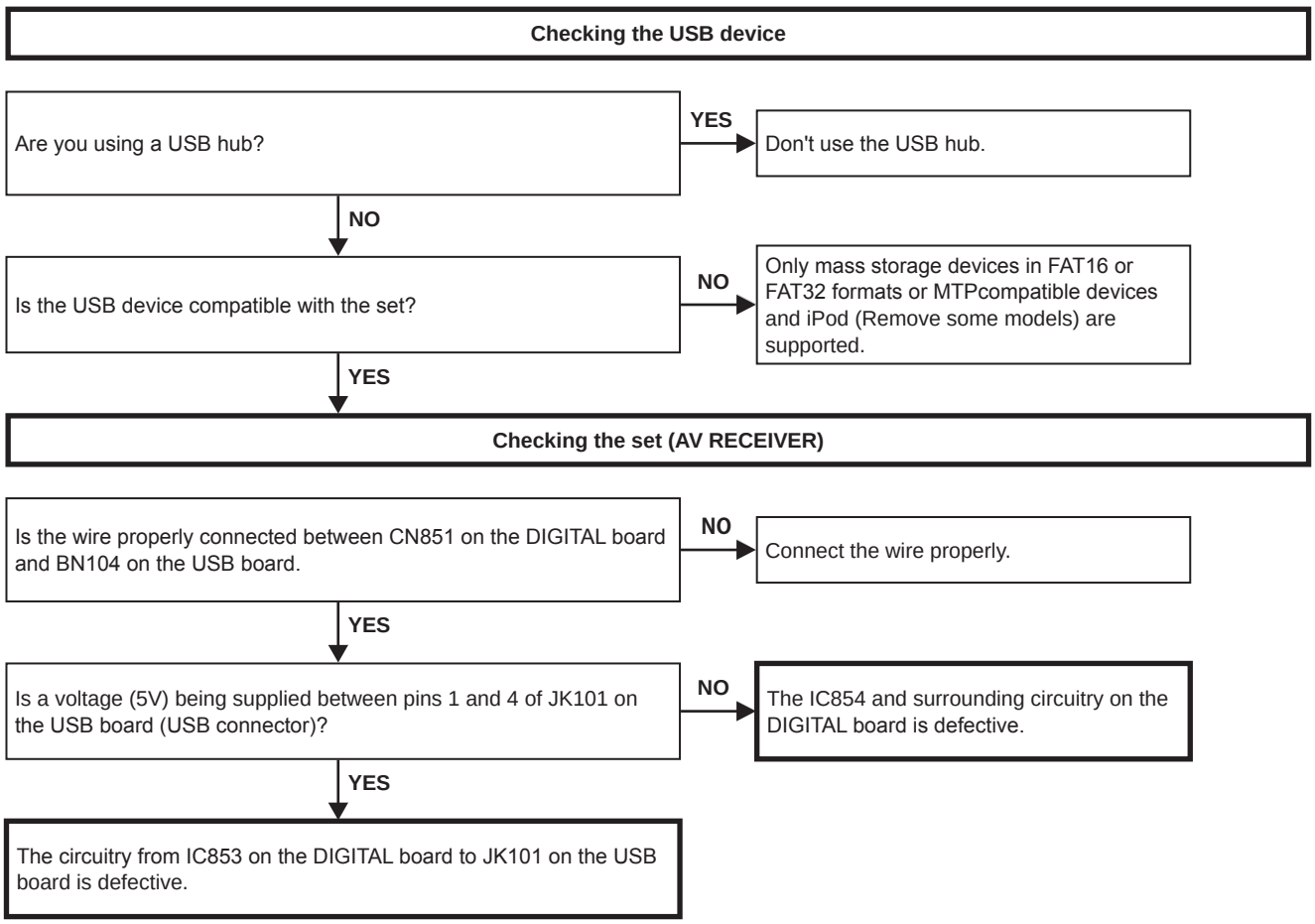


5. Network/USB

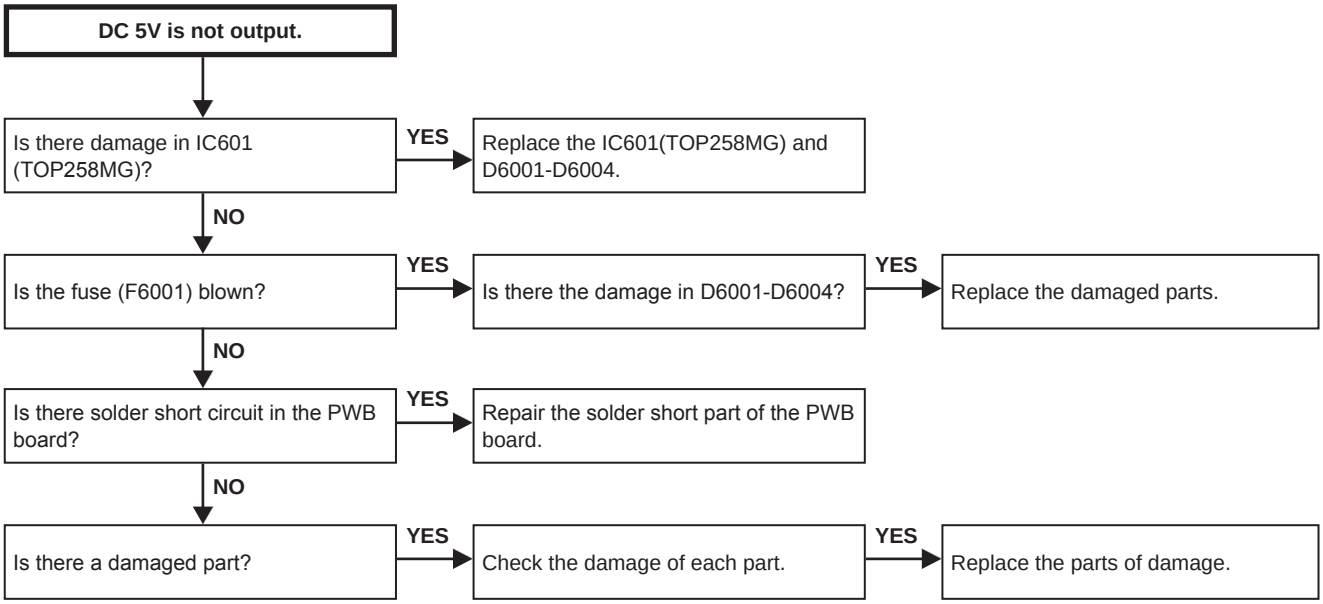
5.1. Cannot connect to network



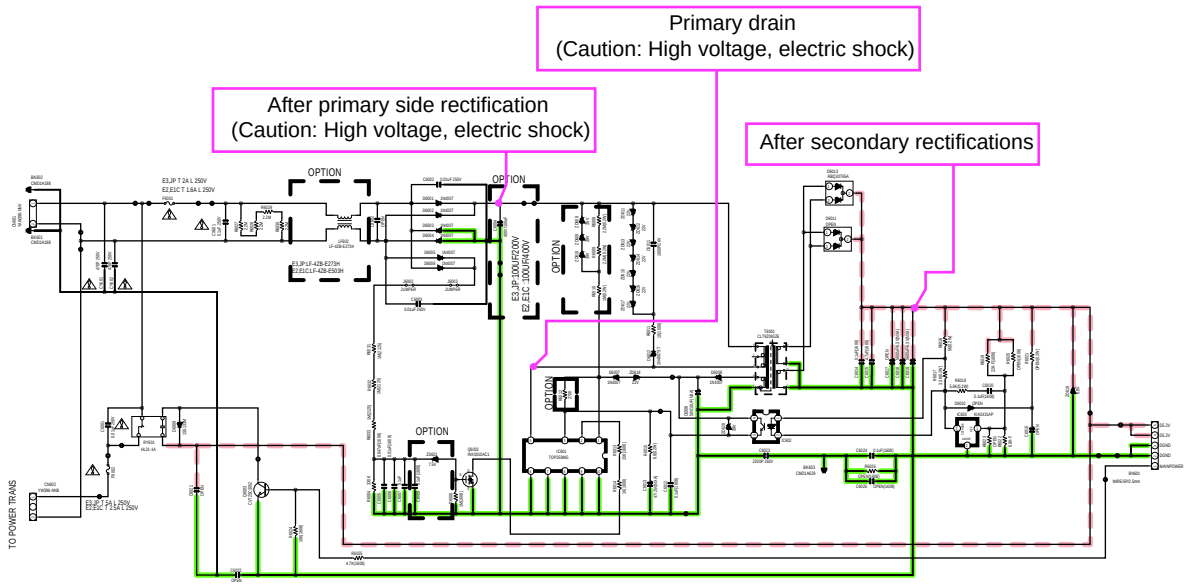
5.2.USB device is not recognized



6. SMPS

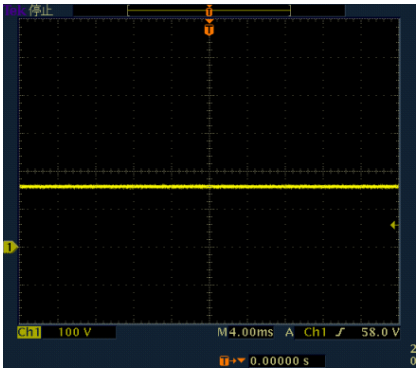

DC 5V is not output.
Is there damage in IC601 (TOP258MG)?
YES
Replace the IC601(TOP258MG) and D6001-D6004.
NO
Is the fuse (F6001) blown?
YES
Is there the damage in D6001-D6004?
YES
Replace the damaged parts.
NO
Is there solder short circuit in the PWB board?
YES
Repair the solder short part of the PWB board.
NO
Is there a damaged part?
YES
Check the damage of each part.
YES
Replace the parts of damage.

Operation waveform for each part

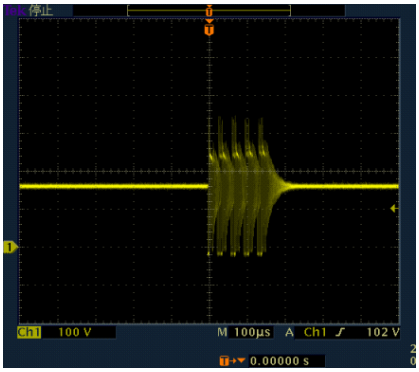


SMPS unit
(Unloaded)

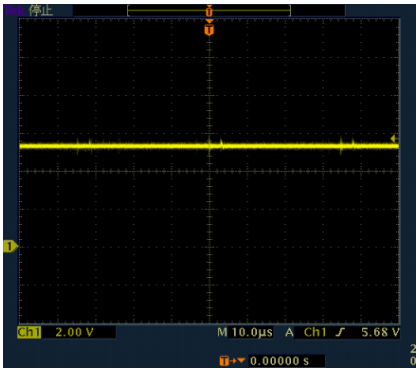
A



B

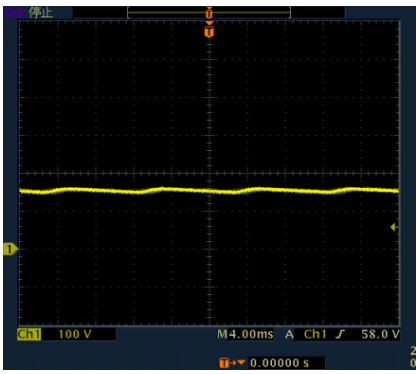


C

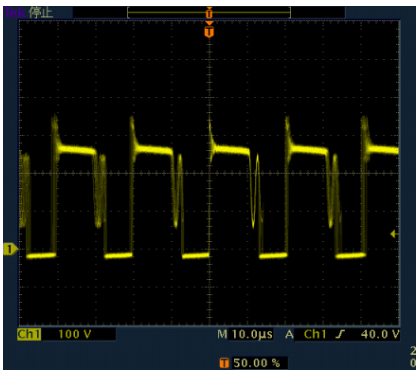


Set

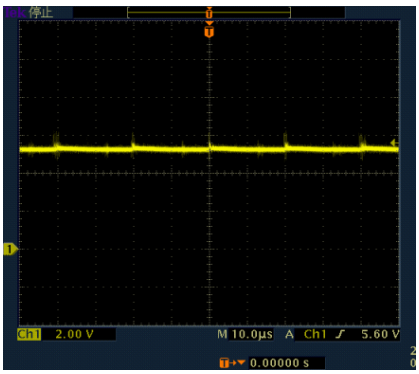
A



B

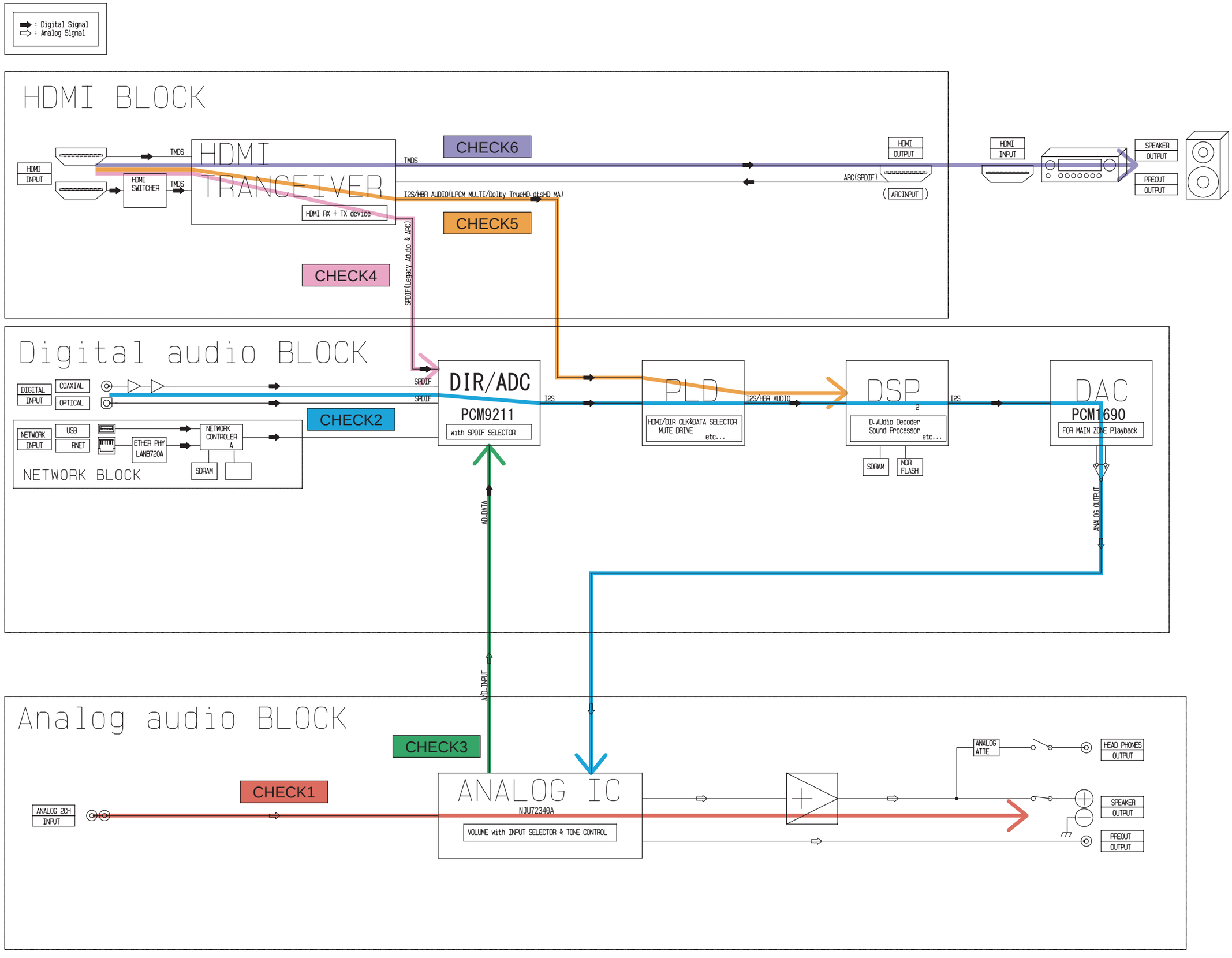


C



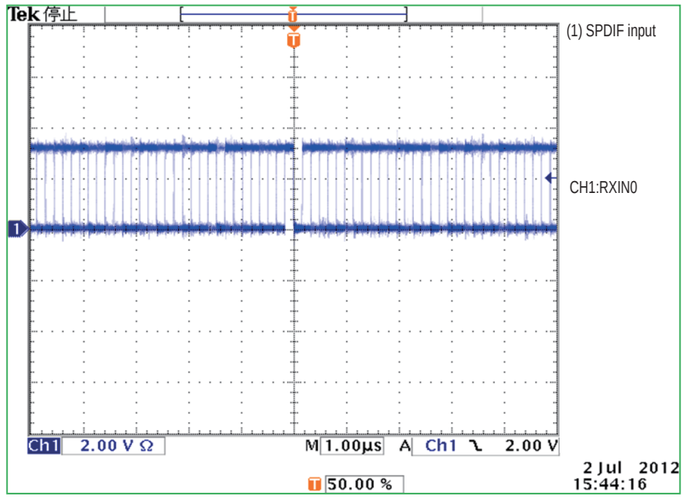
Personal notes:

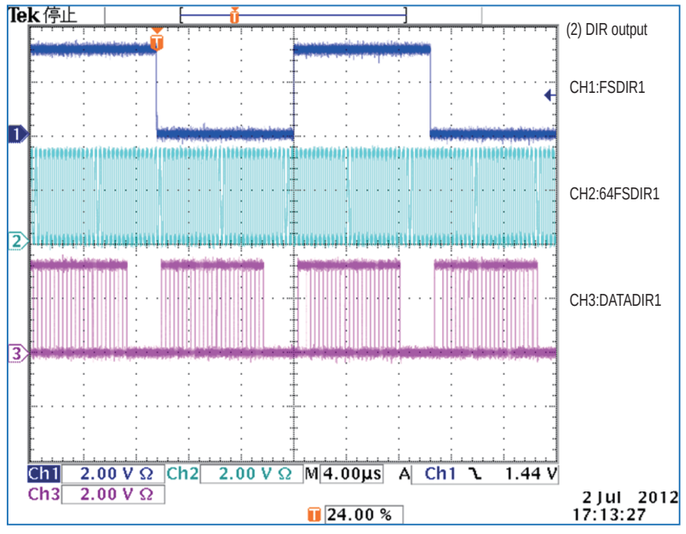
Audio Check PASS

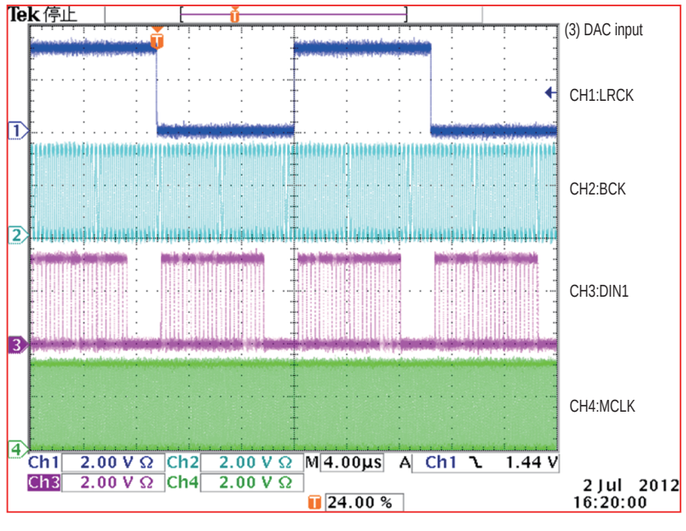


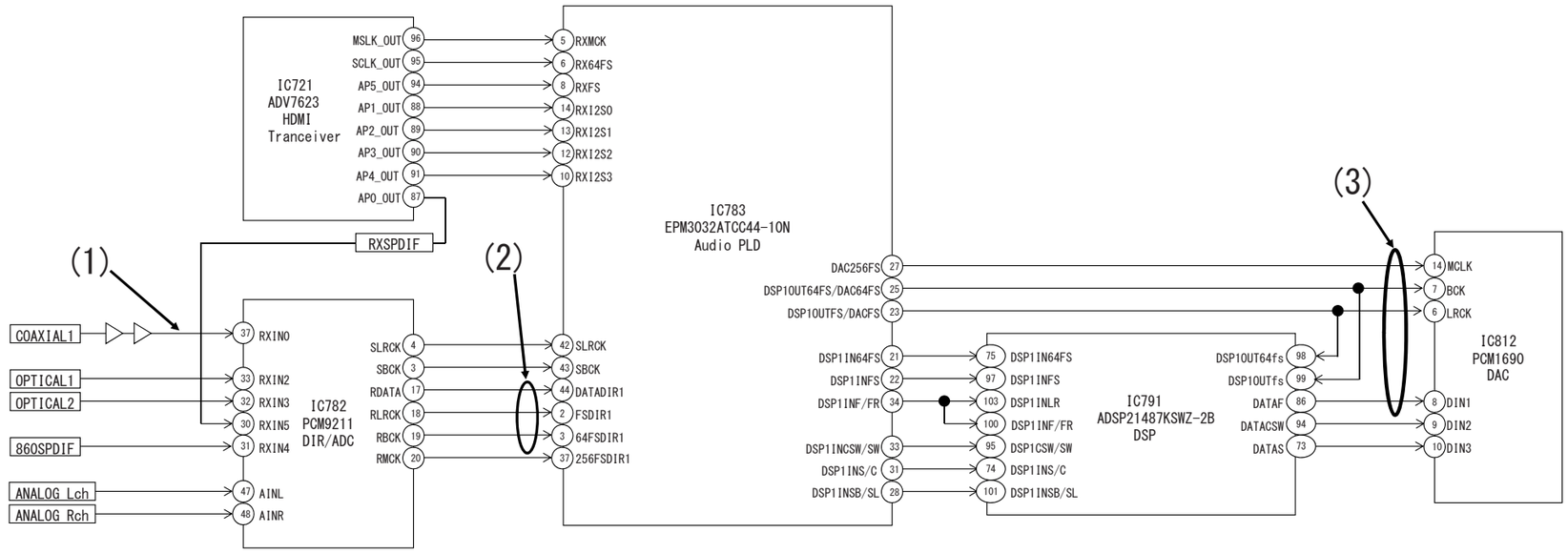
CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

WAVE FORM

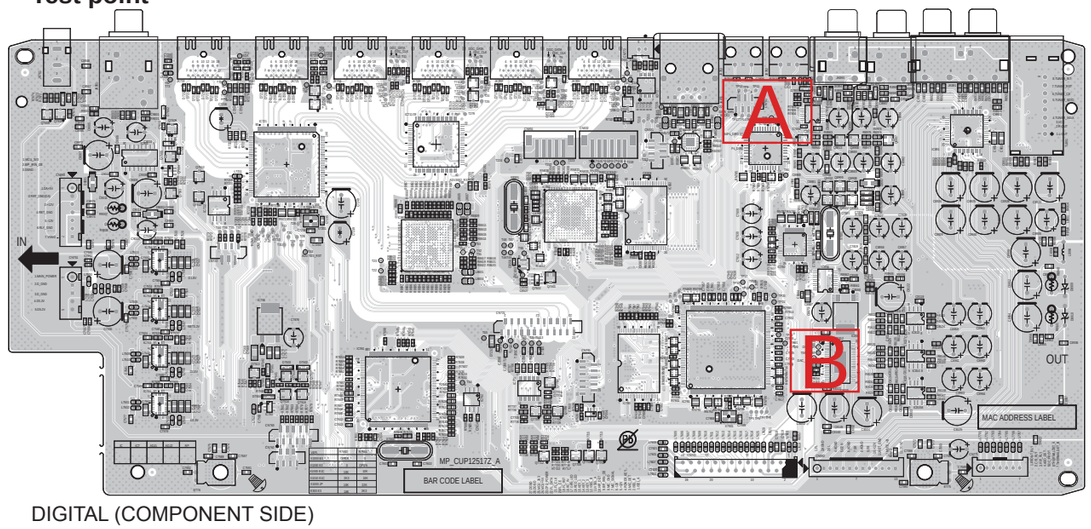






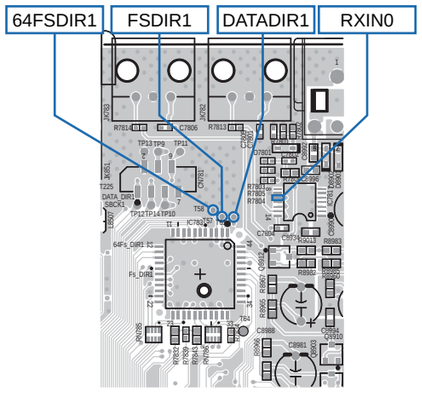


Test point

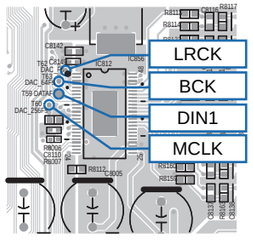


DIGITAL (COMPONENT SIDE)

Detail A

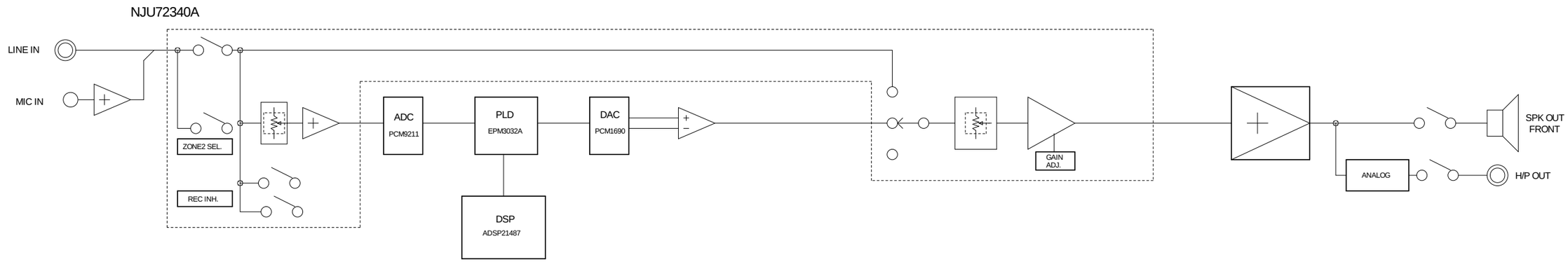


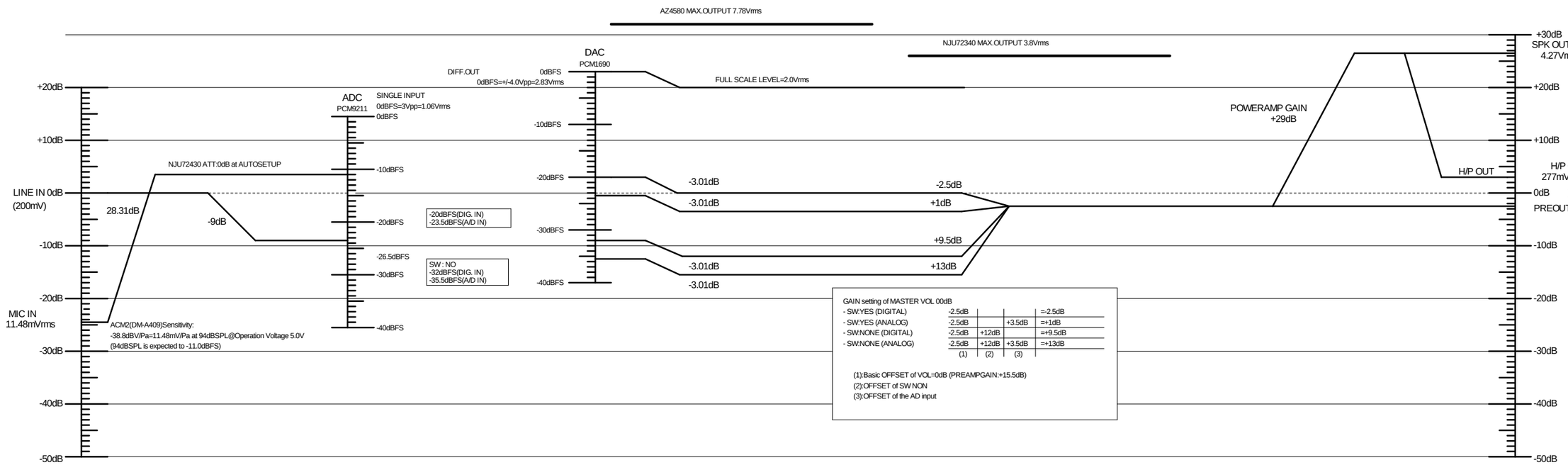
Detail B



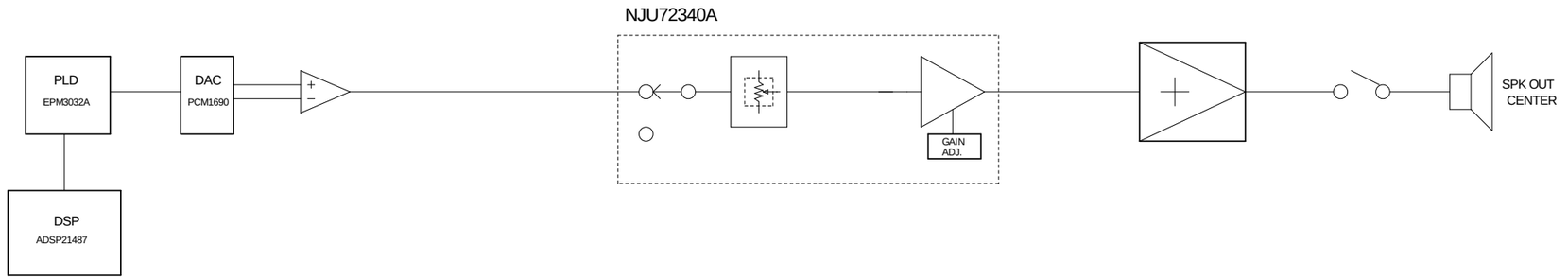
LEVEL DIAGRAM

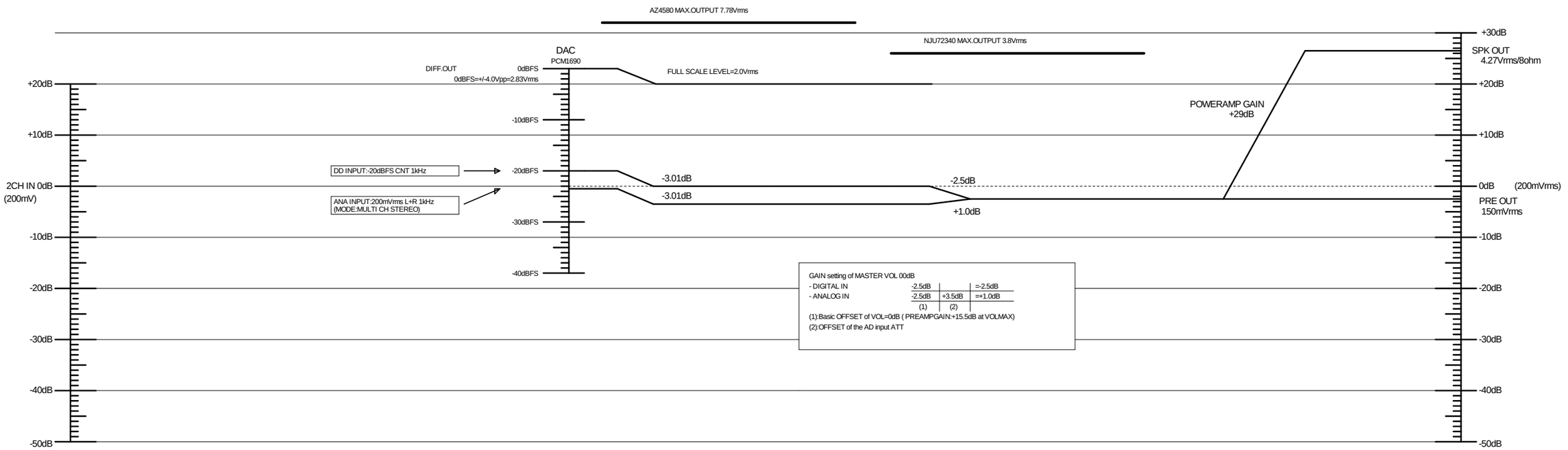
FRONT CHANNEL



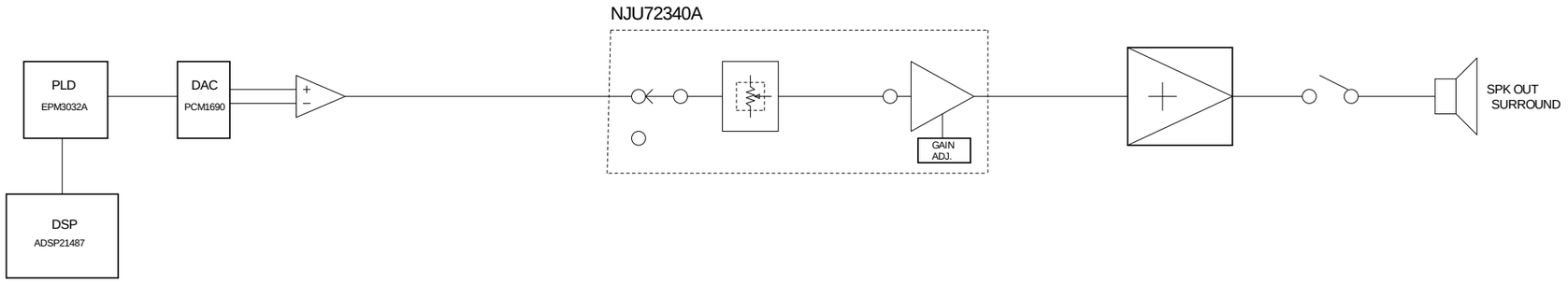


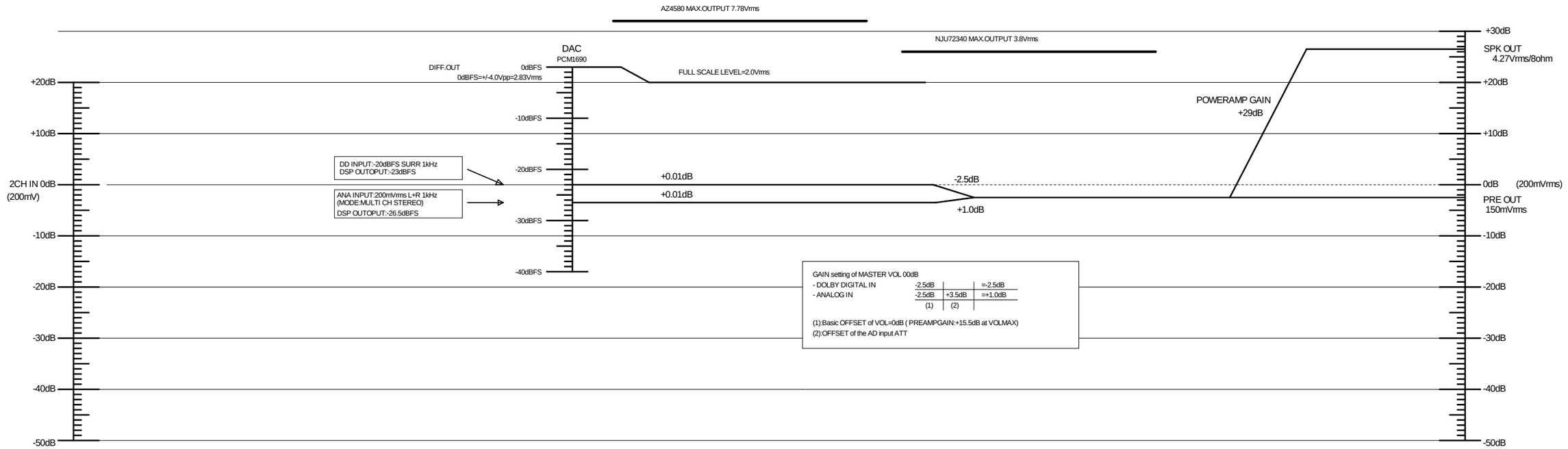
CENTER CHANNEL



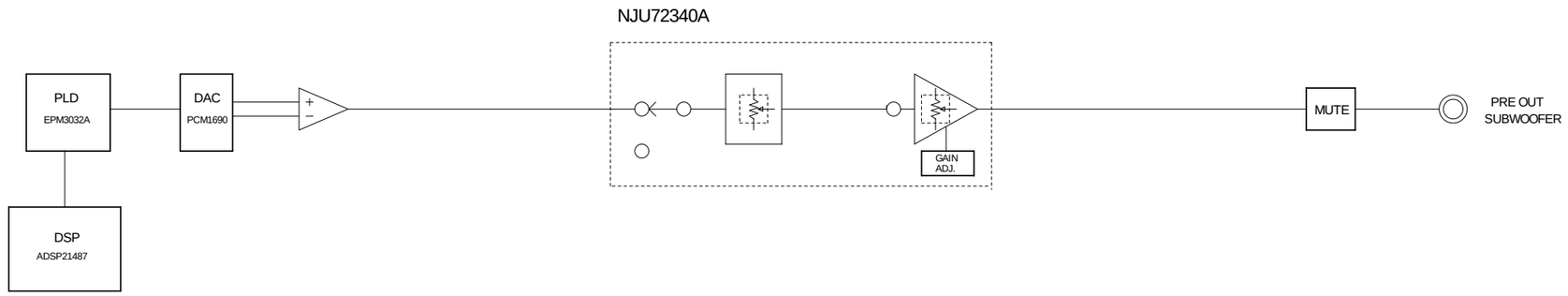


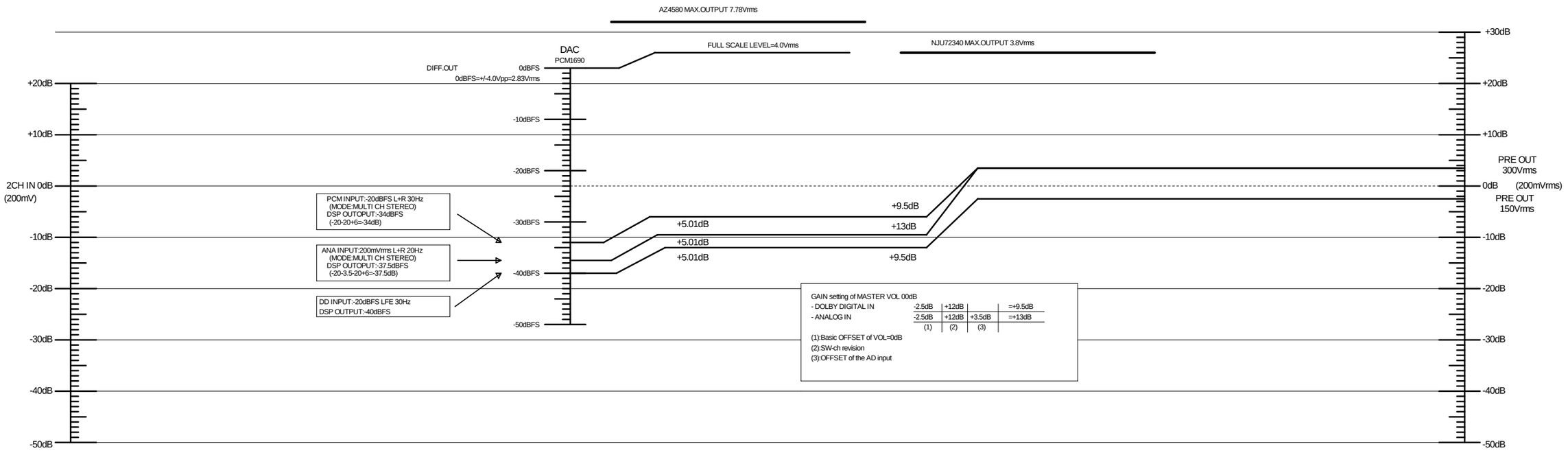
SURROUND CHANNEL



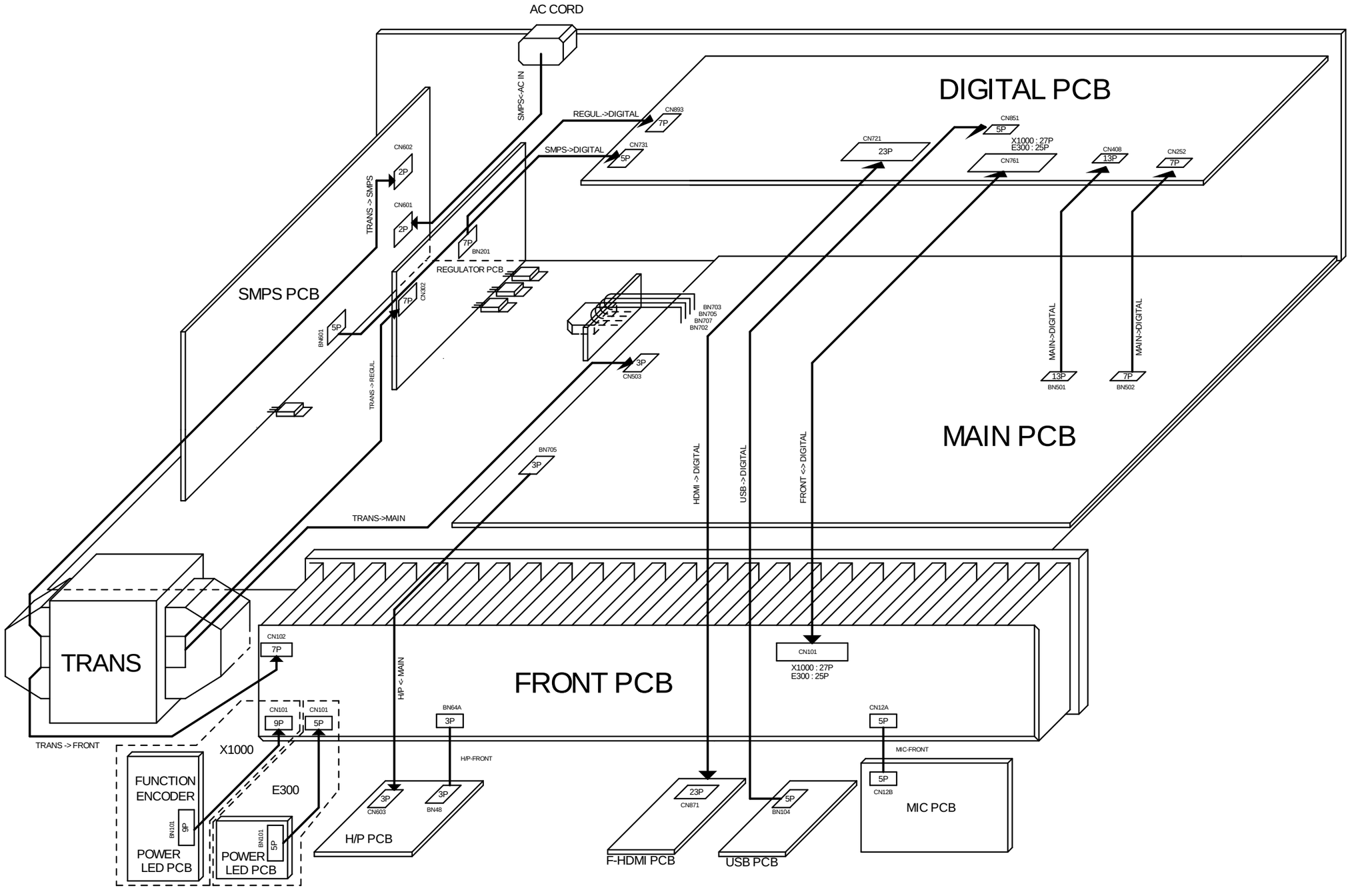


SUBWOOFER CHANNEL





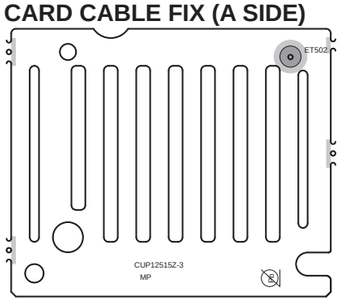
WIRING DIA-GRAM



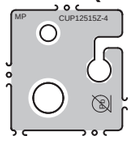
PRINTED WIRING BOARDS

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

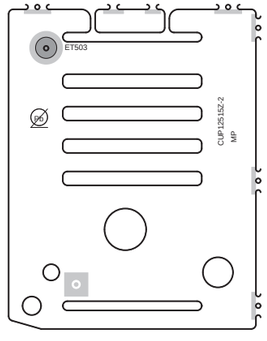
CARD CABLE FIX (A SIDE)



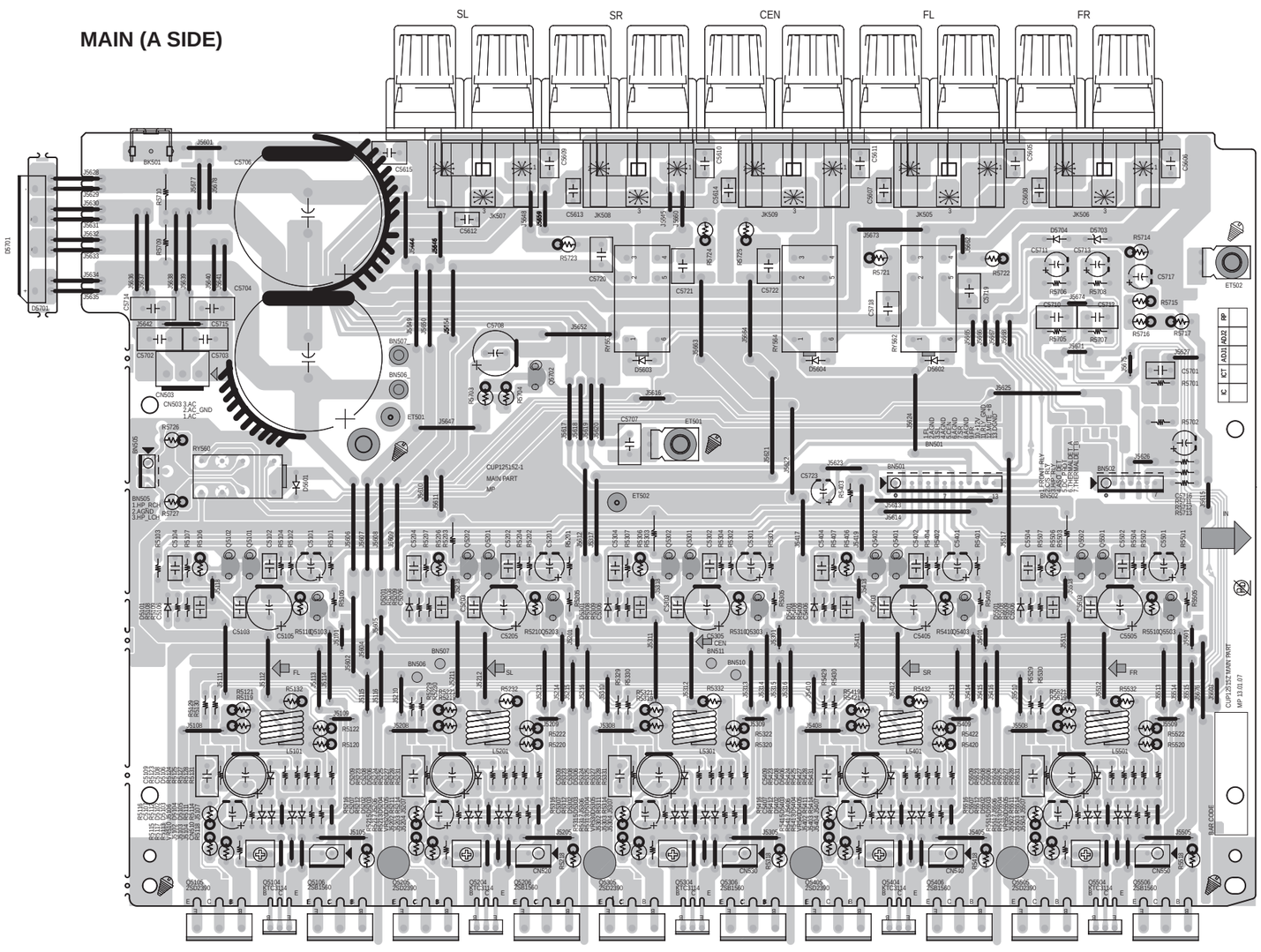
CABLE (A SIDE)



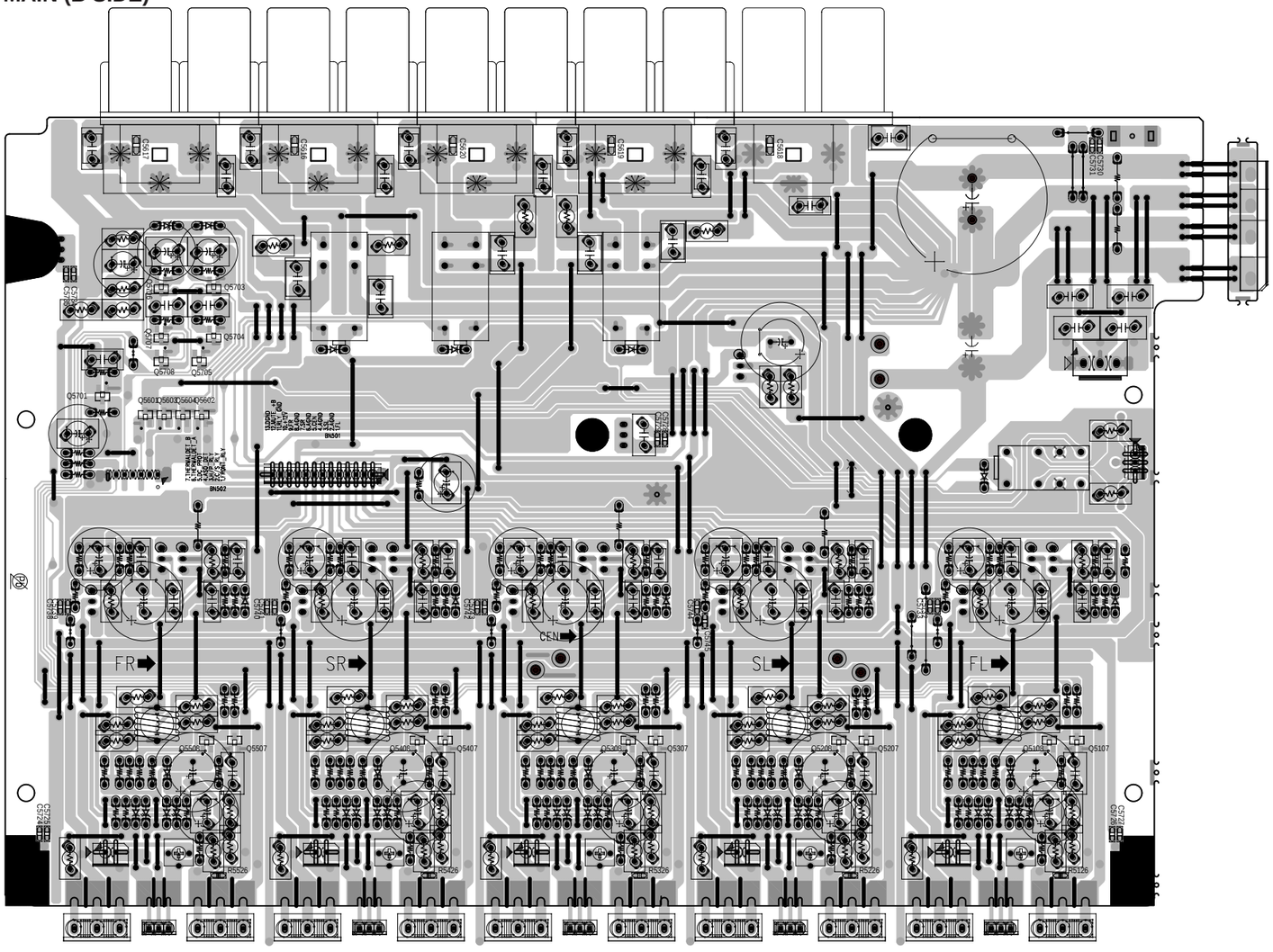
HDMI CABLE (A SIDE)



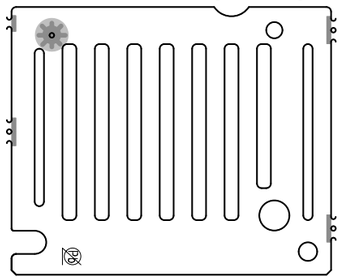
MAIN (A SIDE)



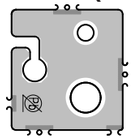
MAIN (B SIDE)



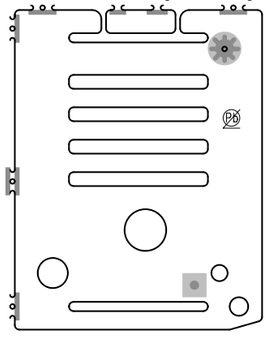
CARD CABLE FIX (A SIDE)



CABLE (A SIDE)

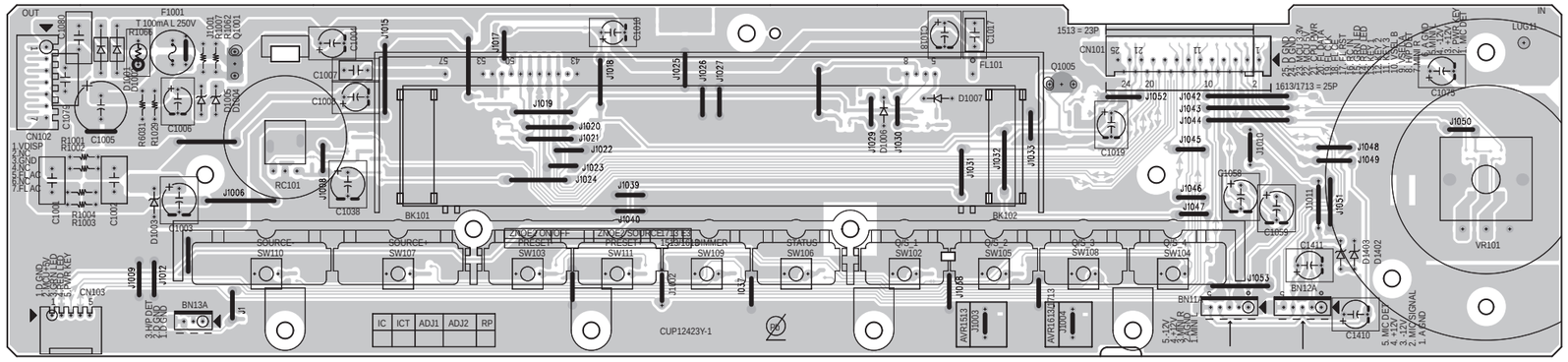


HDMI CABLE (A SIDE)

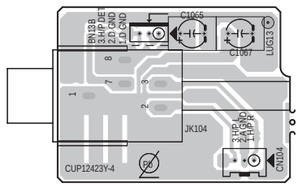


AVR-E300 ONLY

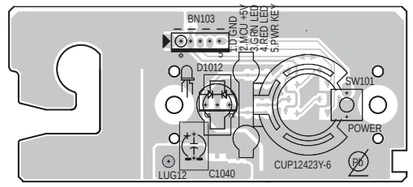
FRONT (A SIDE)



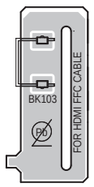
HEADPHONE (A SIDE)



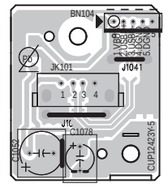
POWER KNOB (A SIDE)



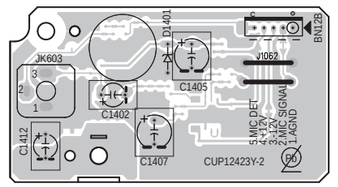
FRONT HDMI CABLE (A SIDE)



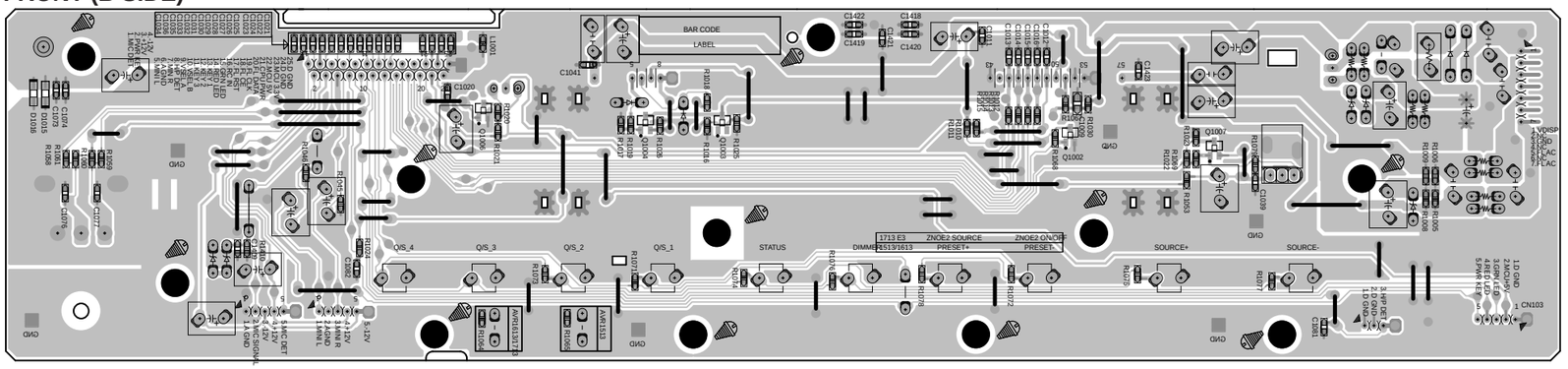
USB (A SIDE)



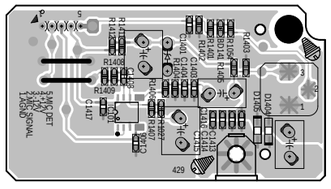
MIC (A SIDE)



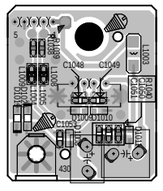
FRONT (B SIDE)



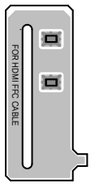
MIC (B SIDE)



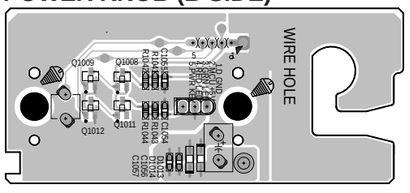
USB (B SIDE)



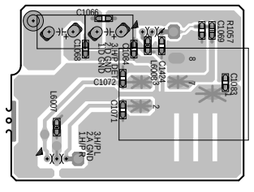
FRONT HDMI CABLE (B SIDE)



POWER KNOB (B SIDE)

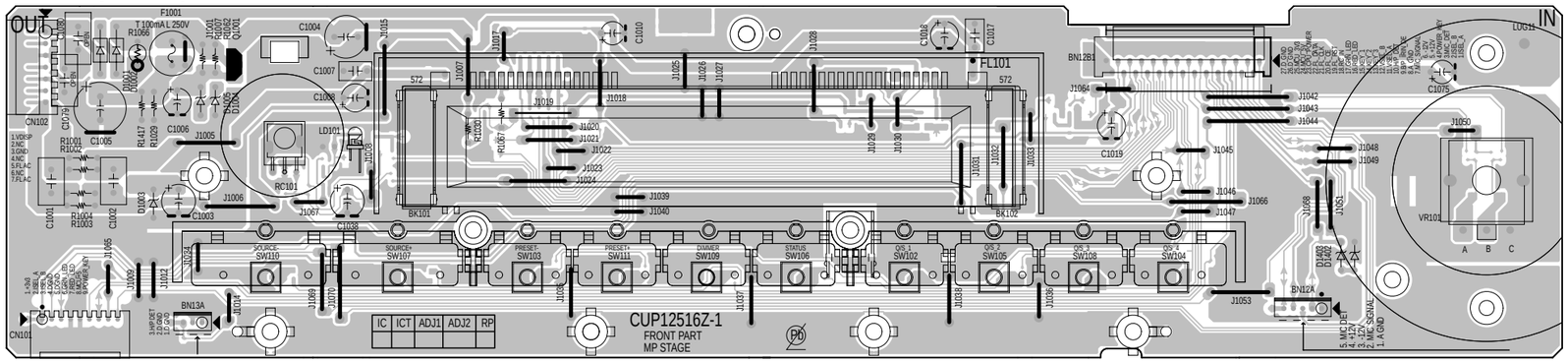


HEADPHONE (B SIDE)

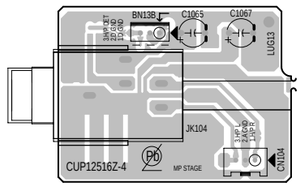


AVR-X1000 ONLY

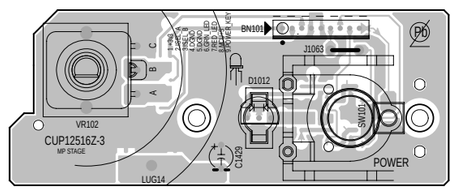
FRONT (A SIDE)



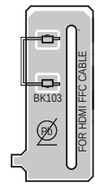
HEADPHONE (A SIDE)



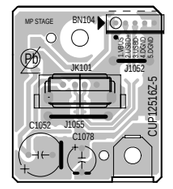
ENCODER&POWER (A SIDE)



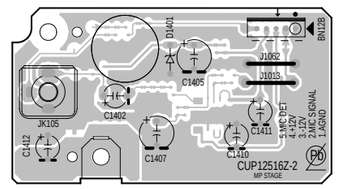
FRONT HDMI CABLE (A SIDE)



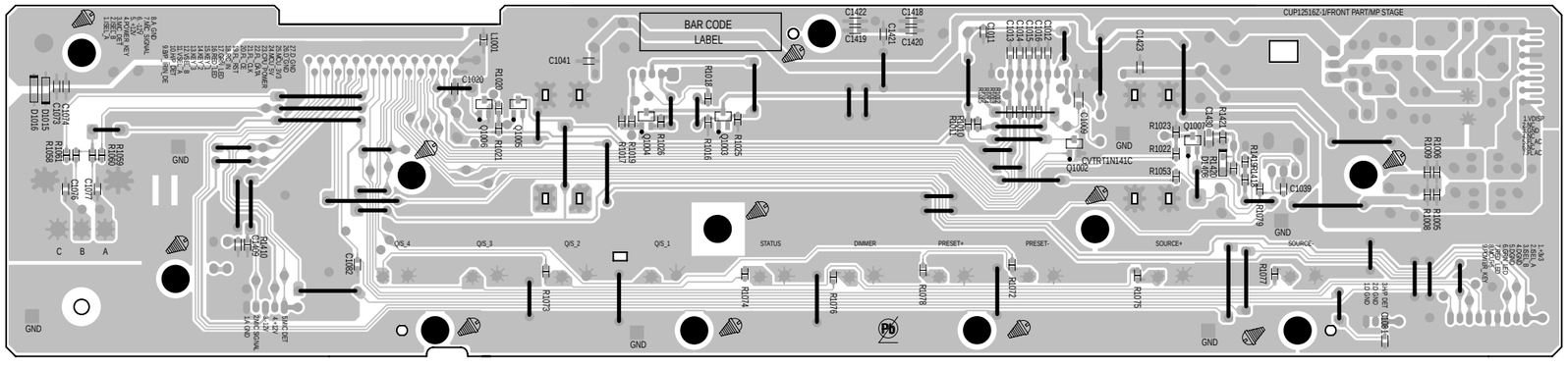
USB (A SIDE)



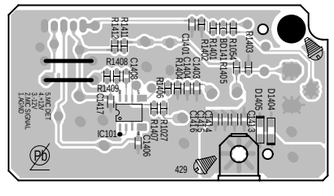
MIC (A SIDE)



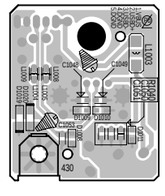
FRONT (B SIDE)



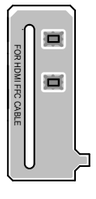
MIC (B SIDE)



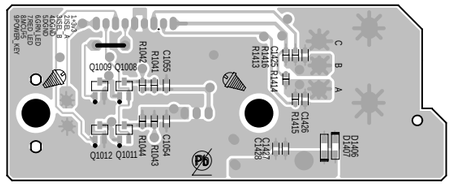
USB (B SIDE)



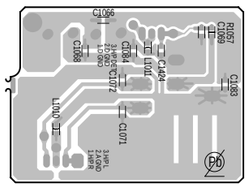
FRONT HDMI CABLE (B SIDE)



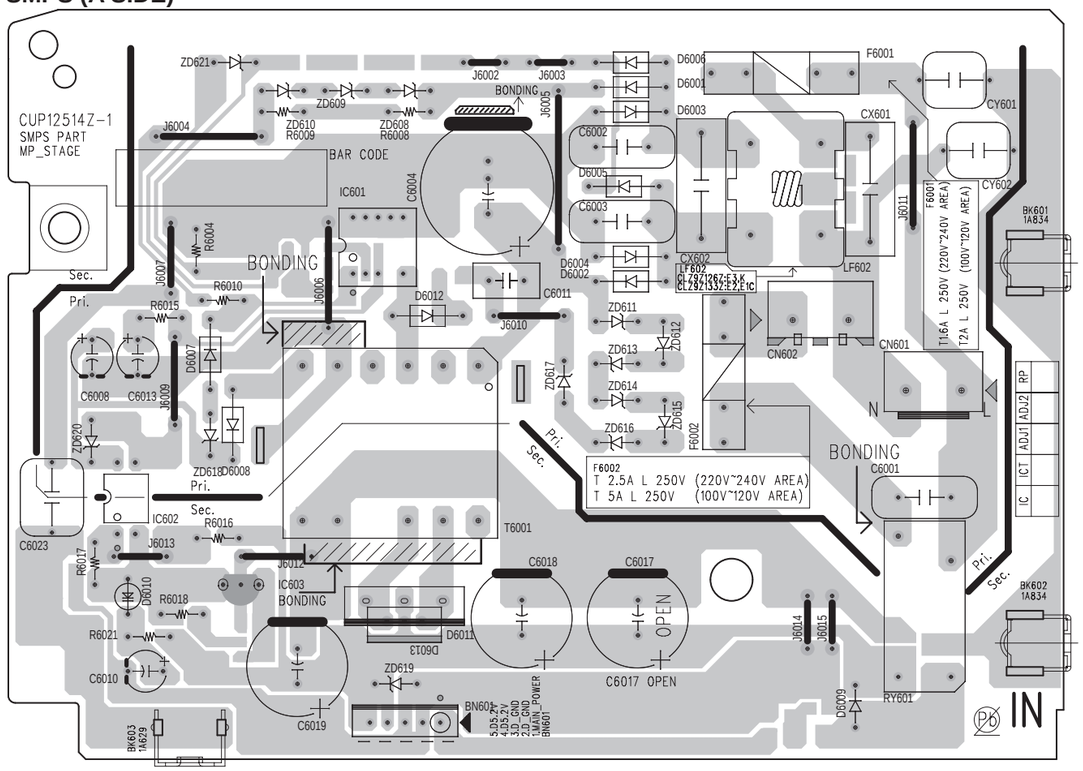
ENCODER&POWER (B SIDE)



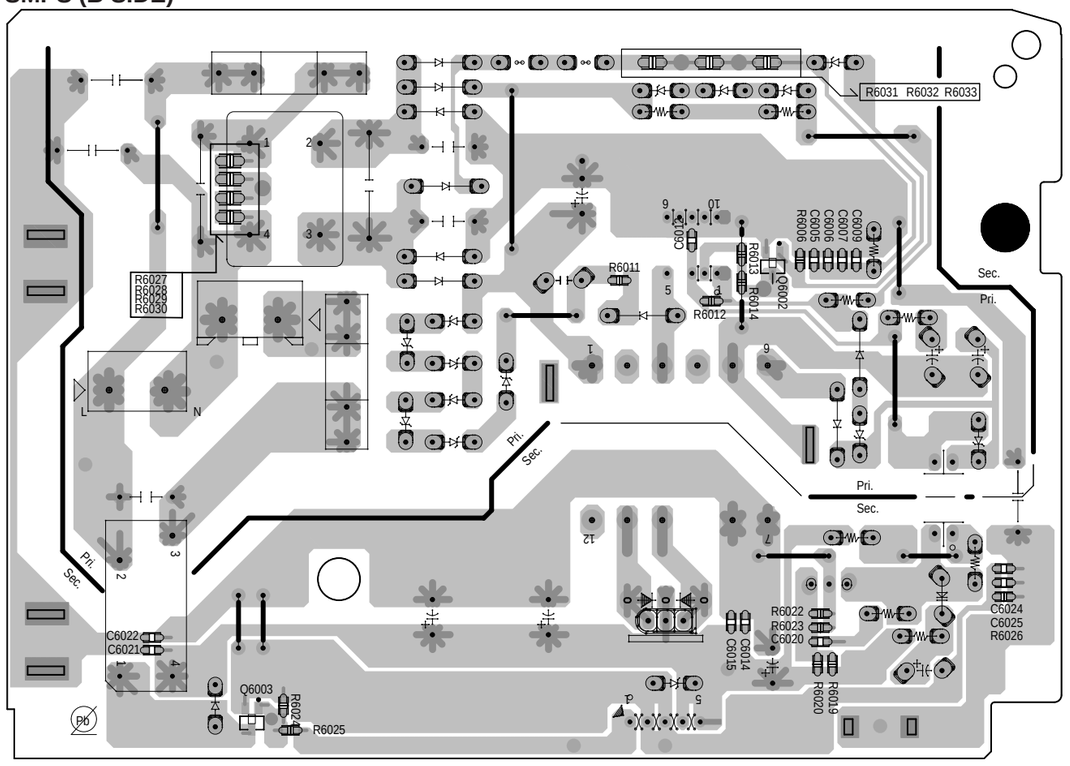
HEADPHONE (B SIDE)



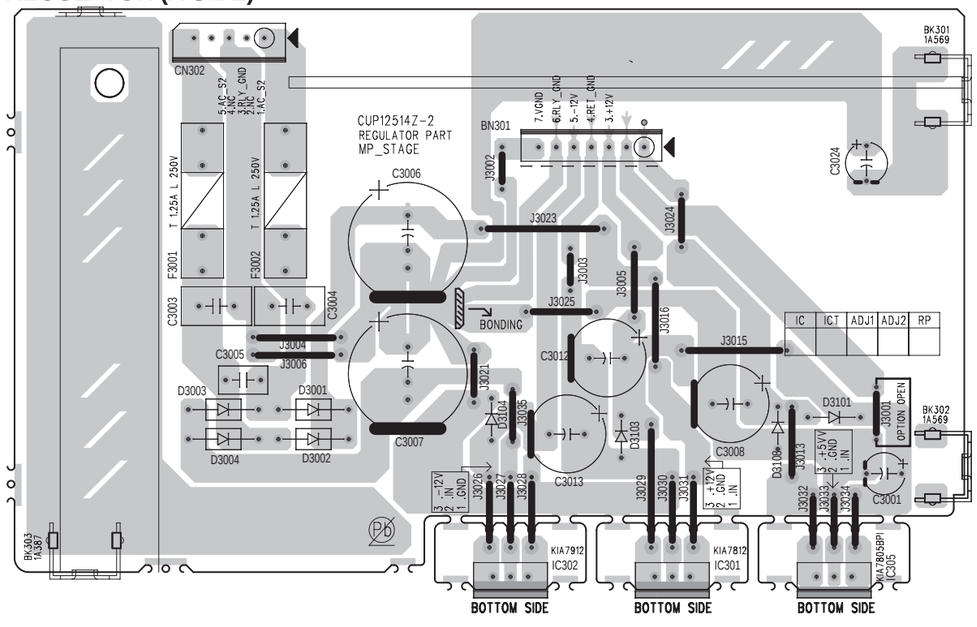
SMPS (A SIDE)



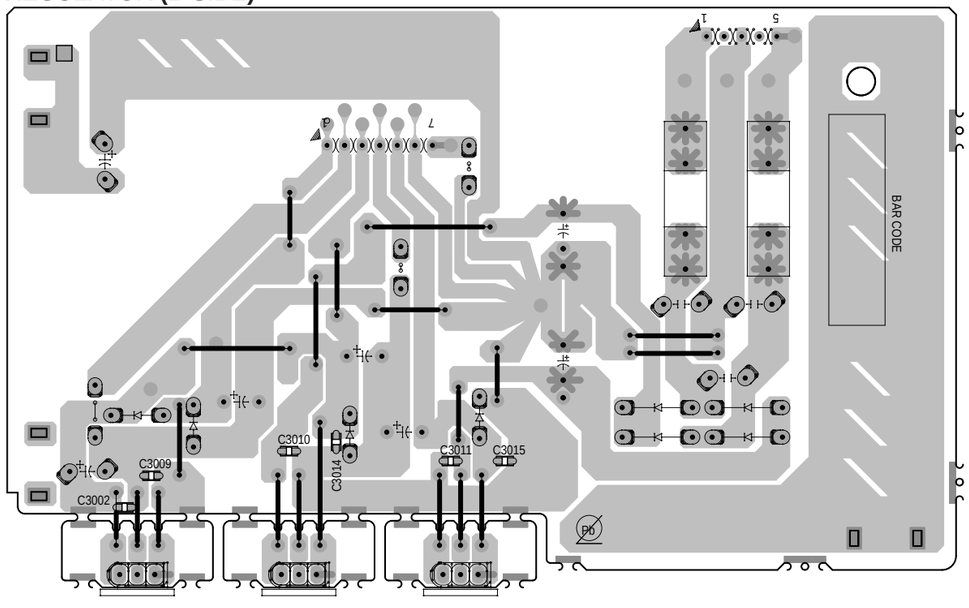
SMPS (B SIDE)



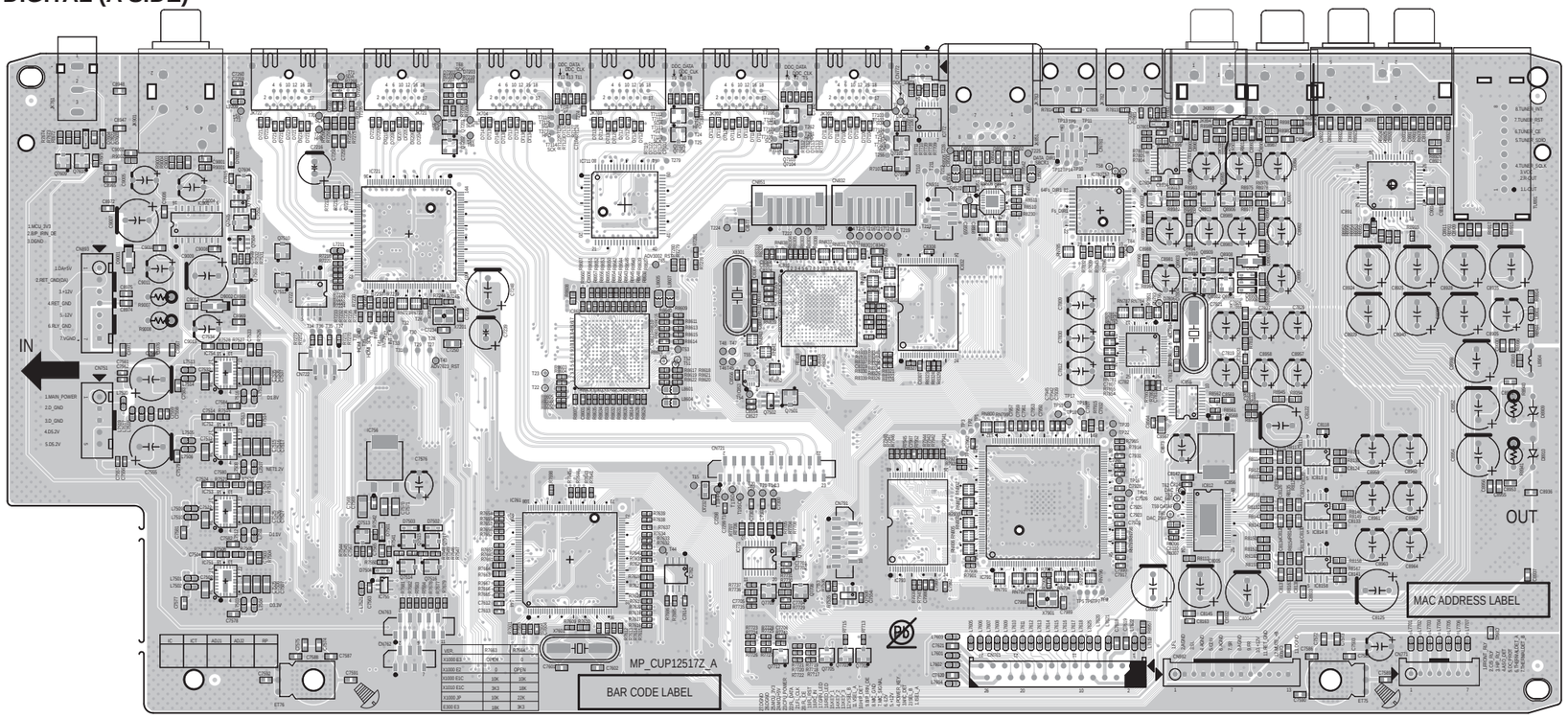
REGULATOR (A SIDE)



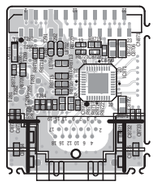
REGULATOR (B SIDE)



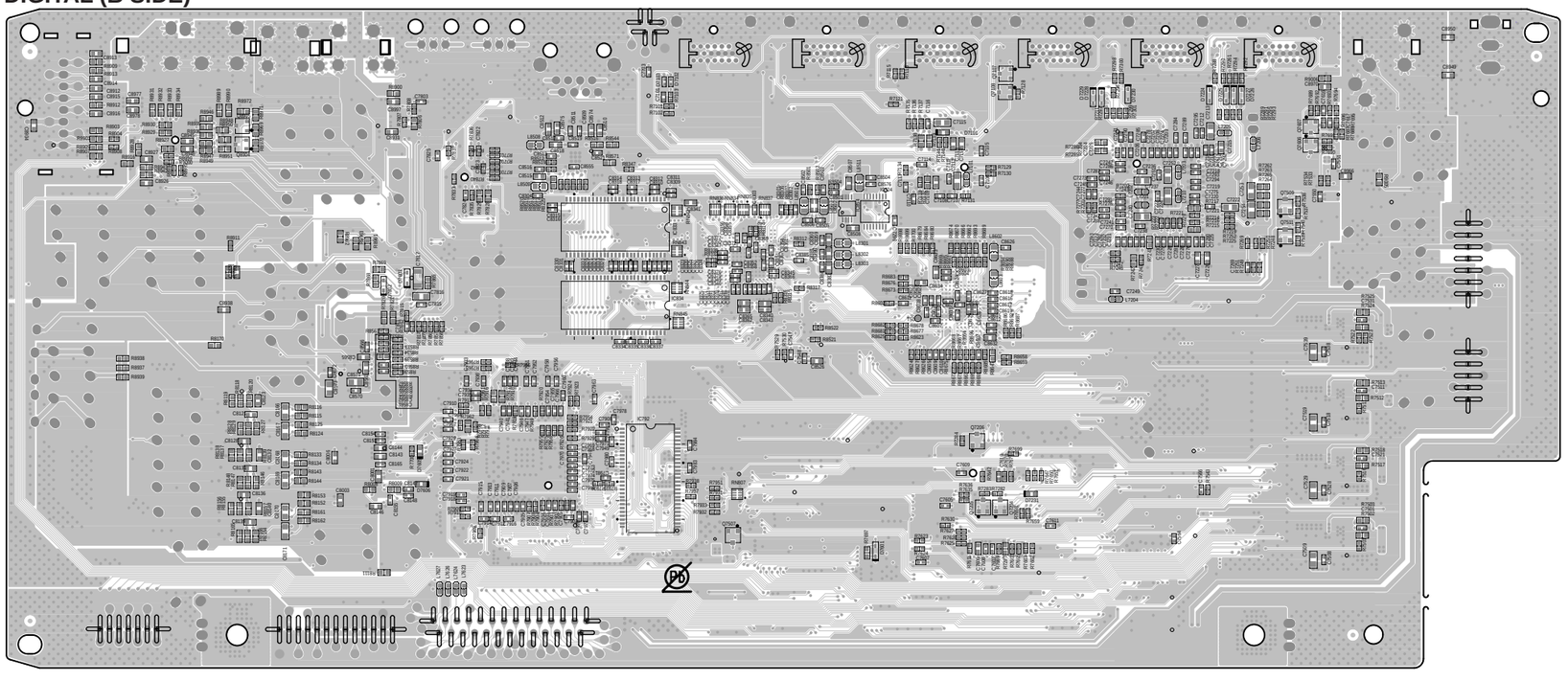
DIGITAL (A SIDE)



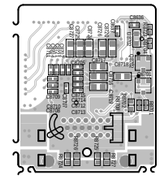
HDMI (A SIDE)



DIGITAL (B SIDE)



HDMI (B SIDE)



AVR-E300 ONLY

AVR-E300 FRONT PART

FRONT PART

25p -AVR1613/1713/E300
1.25mm 25PIN FFC
FROM DIGITAL B'D

23p -AVR1513/E200/X500
1.25mm 23PIN FFC
FROM DIGITAL B'D

DIGITAL PART
TO CN761

CN101

AVR1513/E200/X500 : 5.PORTABLE_L
AVR1613/1713/E300 : 5.MIC_SIGNAL

FROM TRANS
7. FL_AC
6. NC
5. FL_AC
4. NC
3. GND
2. NC
1. VDISP

FL101 CFL18BT021GINK

AVR1613/1713/E300 ONLY

option

ENCODER PART

ENCODER

CUP12423Z-1

AVR1513/E200 X500 ONLY

AVR1513/E200/X500 ONLY

AVR1613/1713/E300 ONLY

CUP12423Z-2

JACK IN : SW OPEN

AVR1613/1713/E300 ONLY

MIC

MODEL DISTINCTION OPTION

	AVR1513/ E200/X500	AVR1613/1713/ E300
F,H	INSERTION	NON INSERTION
G,I	NON INSERTION	INSERTION

2.0 ANGLE

AVR1513/E200/X500 ONLY

AVR1513/E200/X500 RESISTOR VALUE

LINE	KEY_1				KEY_2			KEY_3	
NAME	R1078	R1072	R1071	J1002	R1075	R1074	R1073	R1077	R1076
ohm	2.7K	1.5K	1K	0	2.7K	1.5K	1K	1.5K	1K

AVR1613/1713/E300 RESISTOR VALUE

LINE	KEY_1				KEY_2			KEY_3	
NAME	R1078	R1072	R1071	J1002	R1075	R1074	R1073	R1077	R1076
ohm	150	100	0	X	180	150	100	150	100

1. CONNECTION ONLY AT AVR1513/ E200/X500
2. CONNECTION ONLY AT AVR1613/1713/ E300

AVR1513/E200/X500 ONLY

AVR1613/1713/E300 ONLY

CUP12423Z-3

PORTABLE

AVR1513/E200/X500 ONLY

TO CN851
TO DIGITAL BOARD
USB BOARD

BN104

CUP12423Z-5

iPOD/USB

AVR1613/1713/E300 ONLY

TO BN505
TO MAIN

CN104

CUP12423Z-4

HEAD PHONE OPTION

	AVR1513/1613/1713	AVR1513/E200/X500/E300
C1057	220P	680P
C1058	220P	680P

HEADPHONE

CUP12423Z-6

POWER

SCHEMATIC DIAGRAMS (1/18)
FRONT PART(for E300)

GND LINE
POWER+ LINE
POWER- LINE
STBY POWER
ANALOG AUDIO1

AVR-X1000 ONLY

AVR-X1000 FRONT PART

27p -AVR-X1000
1.25mm 27PIN FFC
FROM DIGITAL B'D

AVRX1000E3 ONLY

FROM TRANS
7. FL_AC
6. NC
5. FL_AC
4. NC
3. GND
2. NC
1. VDISP

CUP12516Z-1

VOLUME ENCODER

CUP12516Z-2

JACK IN : SW OPEN

MIC

SW111&SW103 OPTION

	AVR-X1000E3	AVR-X1000E2/E1C/K
SW111	ZONE2 SOURCE	PRESET+
SW103	ZONE2 ON/OFF	PRESET-

CUP12516Z-3

FUNCTION ENCODER

ON/STANDBY

ENCODER&POWER

TO DIGITAL BOARD
USB BOARD

CUP12516Z-5

iPOD/USB

TO MAIN

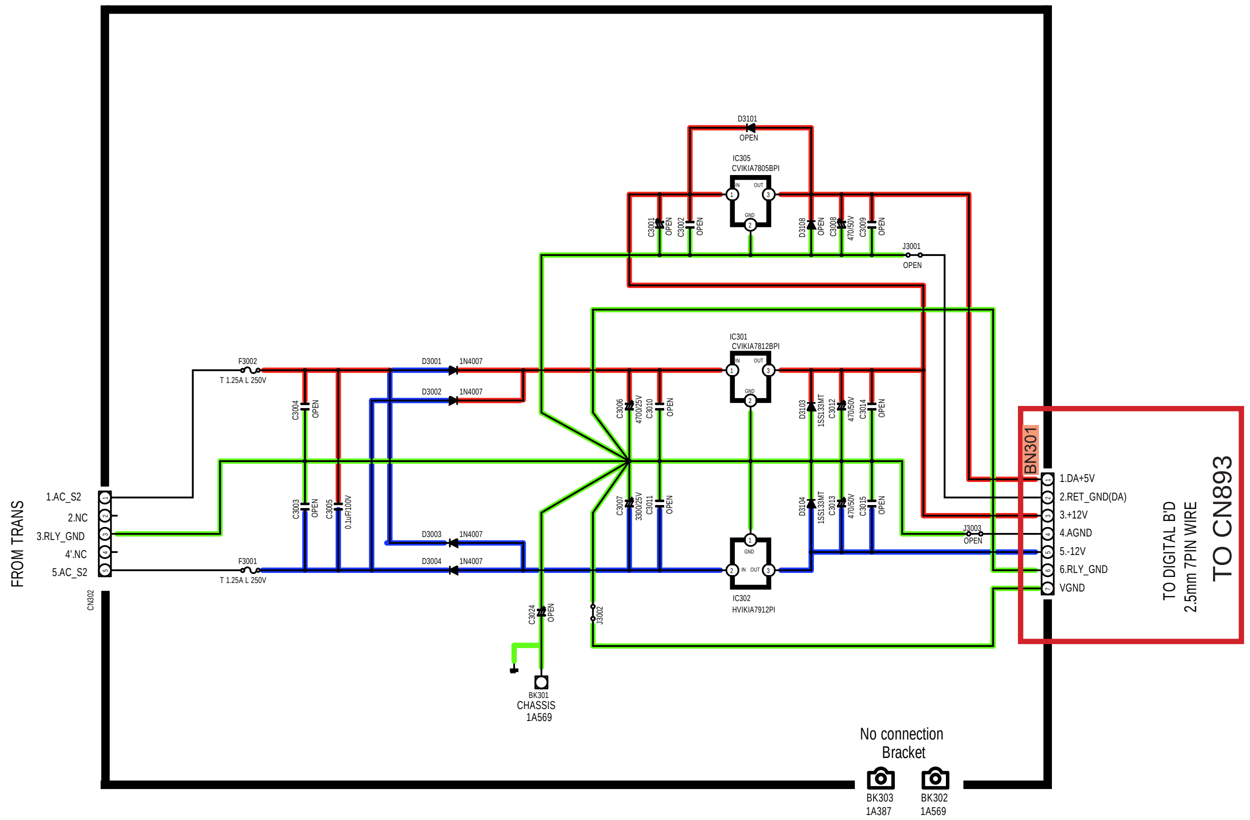
CUP12516Z-4

HEADPHONE

GND LINE
POWER+ LINE
POWER- LINE
STBY POWER
ANALOG AUDIO1

SCHEMATIC DIAGRAMS (2/18)
FRONT PART(for X1000)

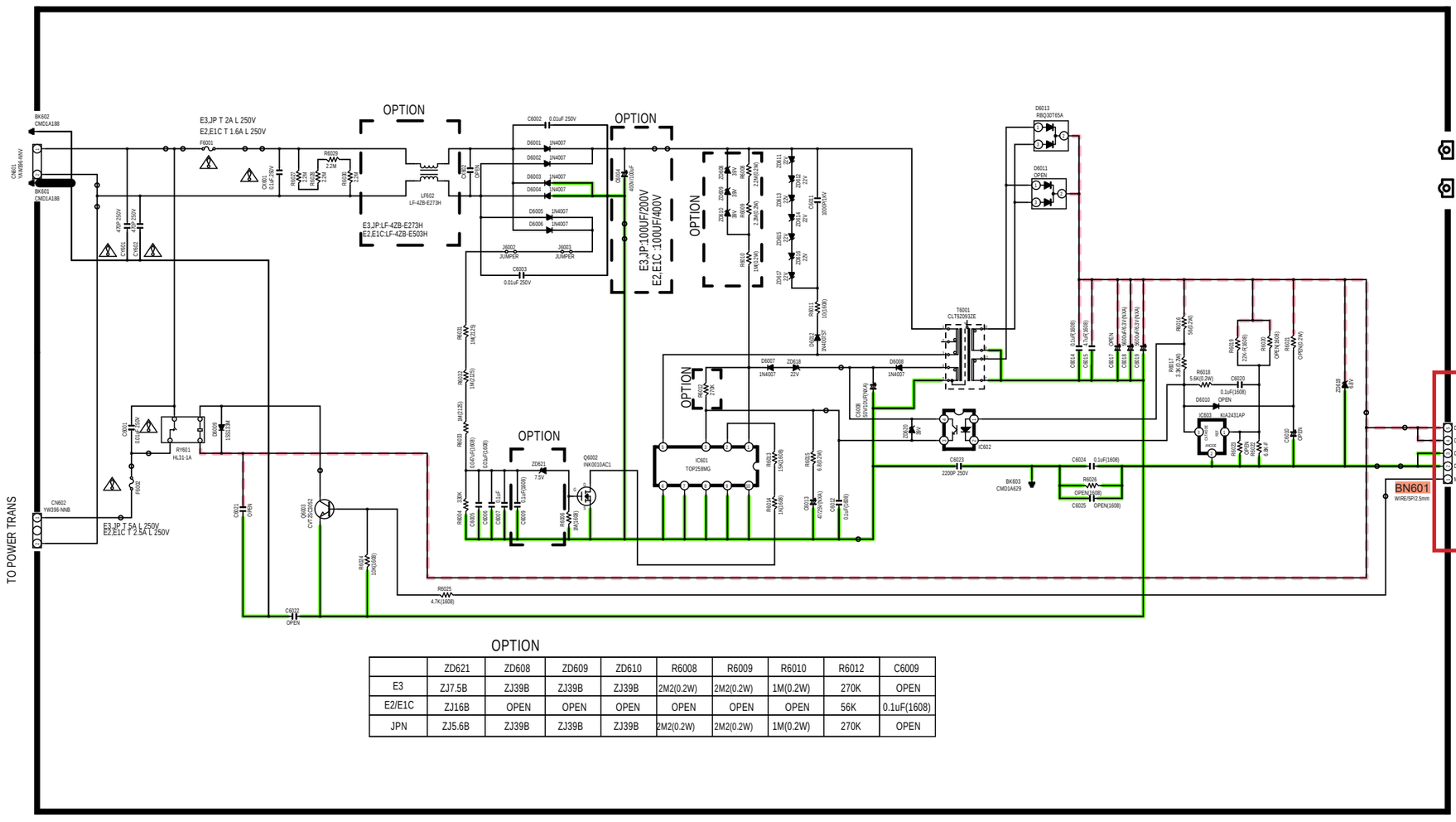
REGULATOR PART



GND LINE POWER+ LINE POWER- LINE STBY POWER ANALOG AUDIO1

SCHEMATIC DIAGRAMS (3/18)
REGULATOR PART

SMPS PART



OPTION

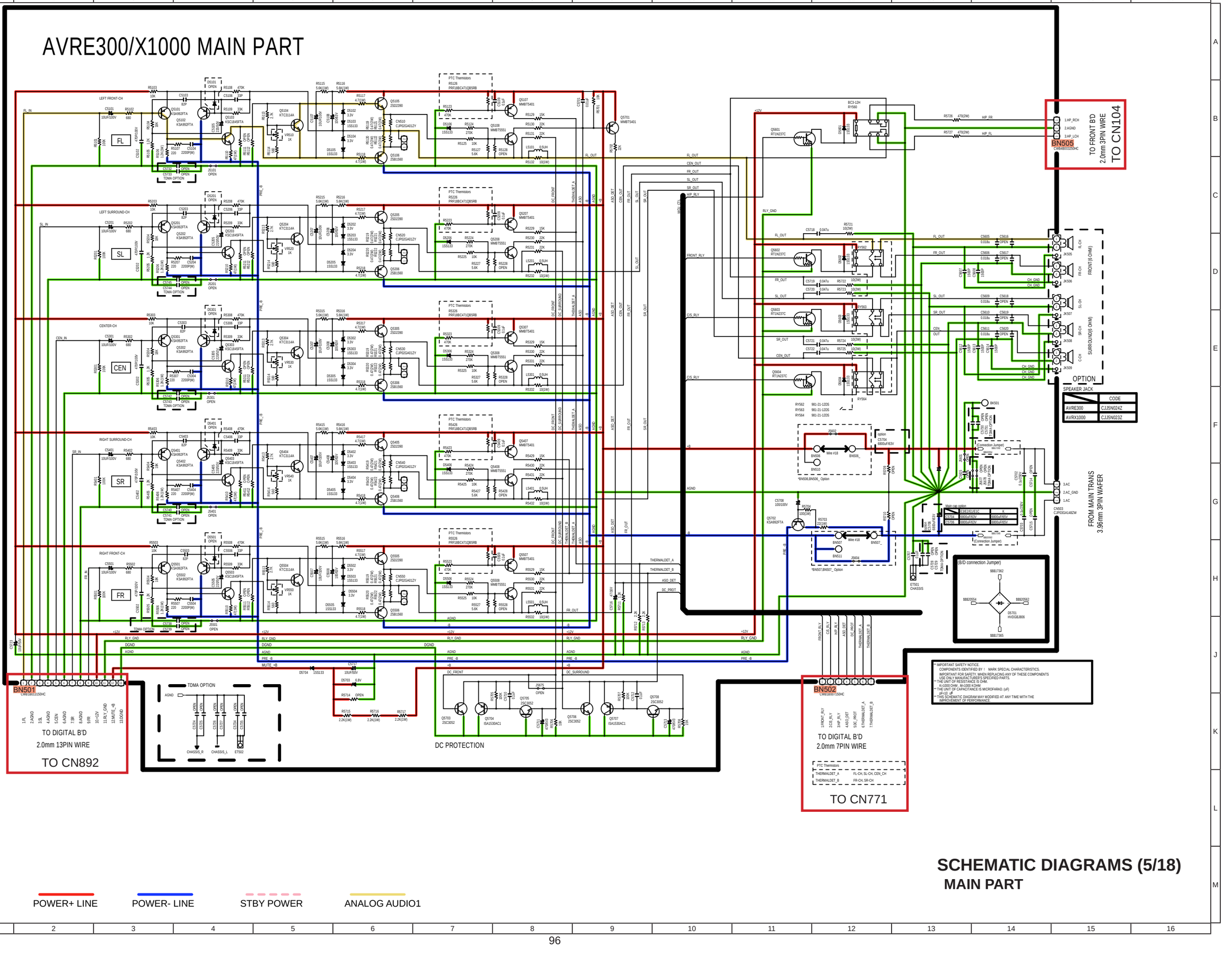
	ZD621	ZD608	ZD609	ZD610	R6008	R6009	R6010	R6012	C6009
E3	ZJ7.5B	ZJ39B	ZJ39B	ZJ39B	2M2(0.2W)	2M2(0.2W)	1M(0.2W)	270K	OPEN
E2/E1C	ZJ16B	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	56K	0.1uF(1608)
JPN	ZJ5.6B	ZJ39B	ZJ39B	ZJ39B	2M2(0.2W)	2M2(0.2W)	1M(0.2W)	270K	OPEN

SCHEMATIC DIAGRAMS (4/18)

SMPS UNIT

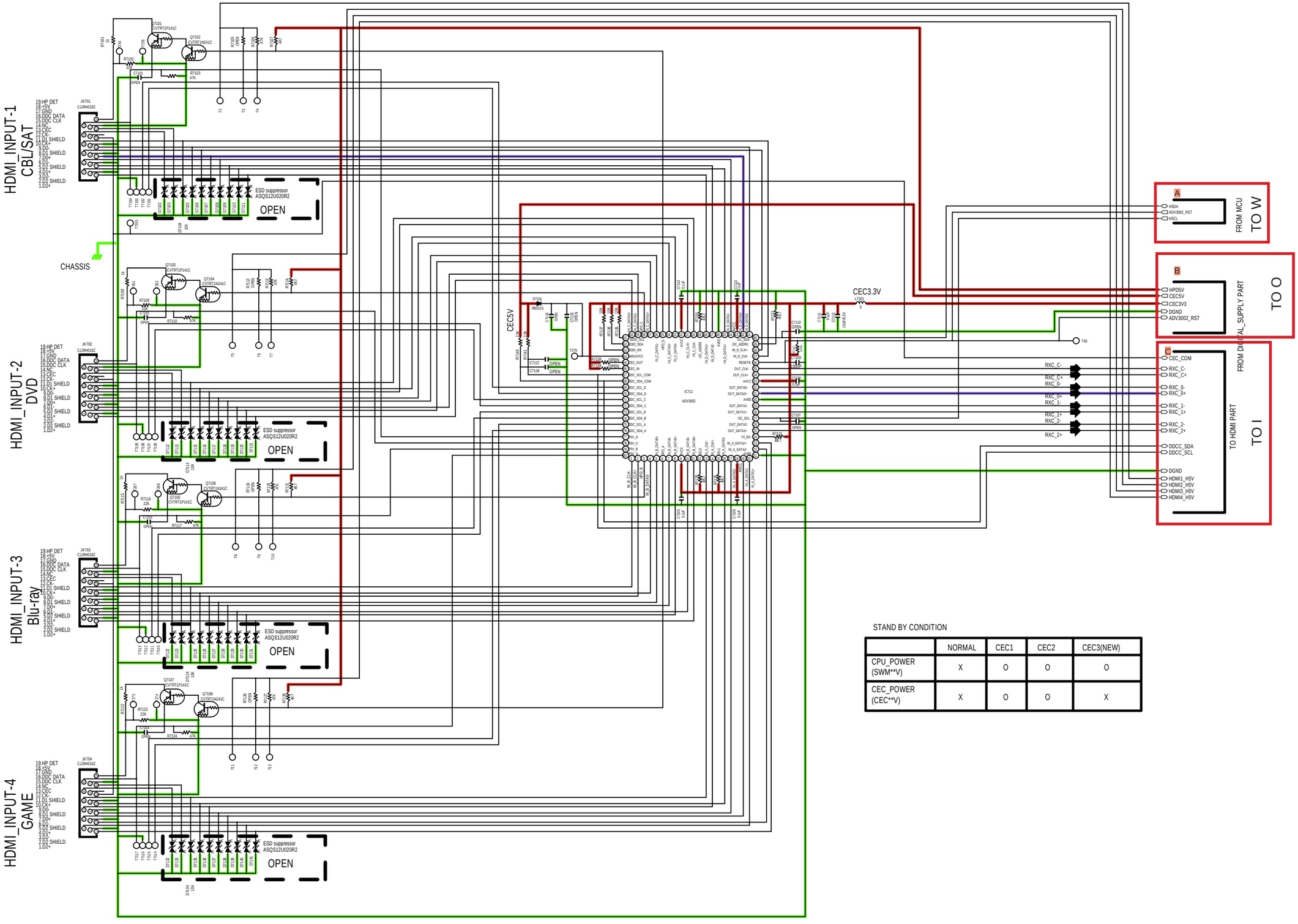
GND LINE POWER+ LINE POWER- LINE STBY POWER ANALOG AUDIO1

AVRE300/X1000 MAIN PART



SCHEMATIC DIAGRAMS (5/18)
MAIN PART

GND LINE | POWER+ LINE | POWER- LINE | STBY POWER | ANALOG AUDIO1



STAND BY CONDITION

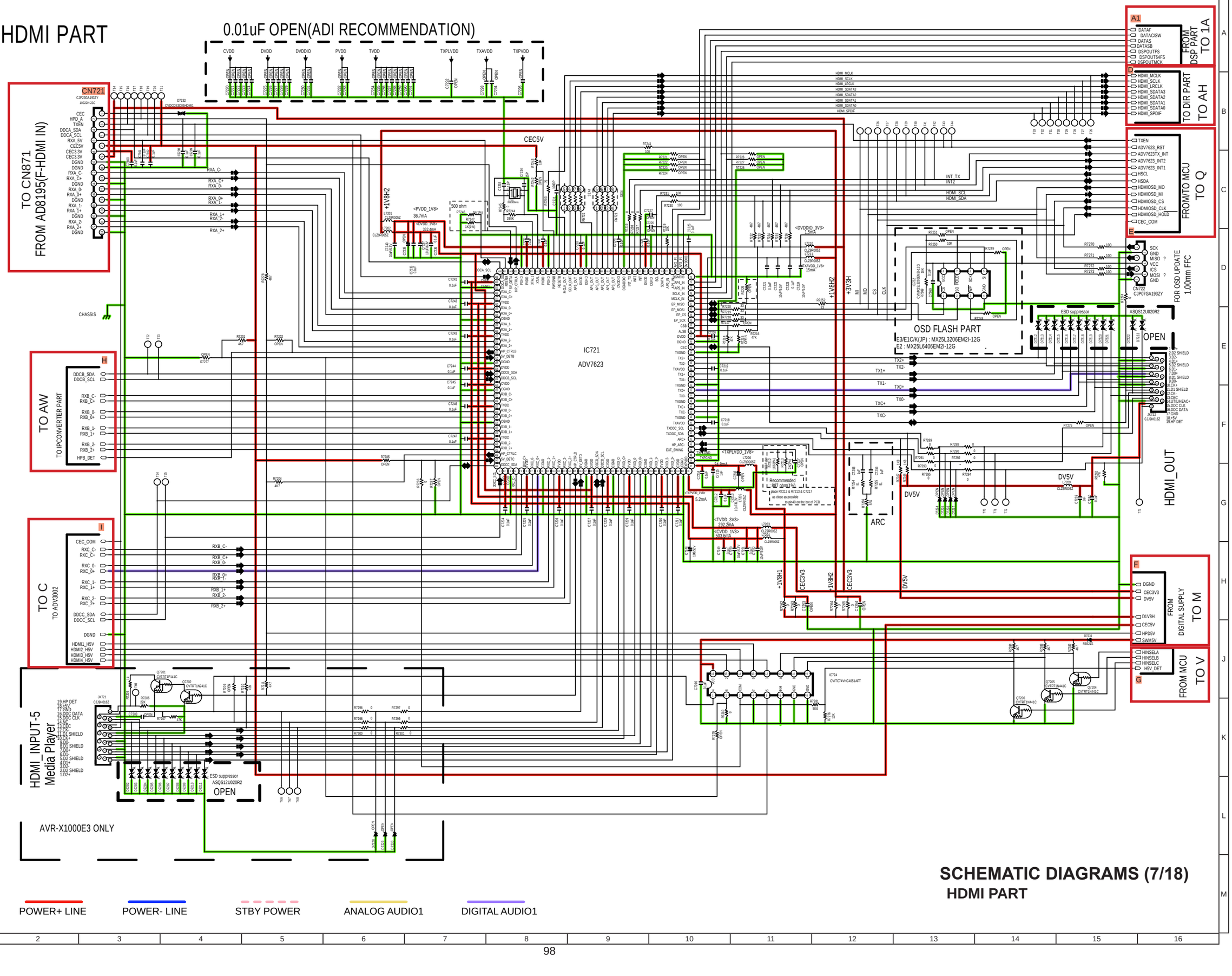
	NORMAL	CEC1	CEC2	CEC3(NEW)
CPU_POWER (SWM**V)	X	O	O	O
CEC_POWER (CEC**V)	X	O	O	X

SCHEMATIC DIAGRAMS (6/18)

ADV3002 PART

GND LINE | POWER+ LINE | POWER- LINE | STBY POWER | ANALOG AUDIO1 | DIGITAL AUDIO1

HDMI PART

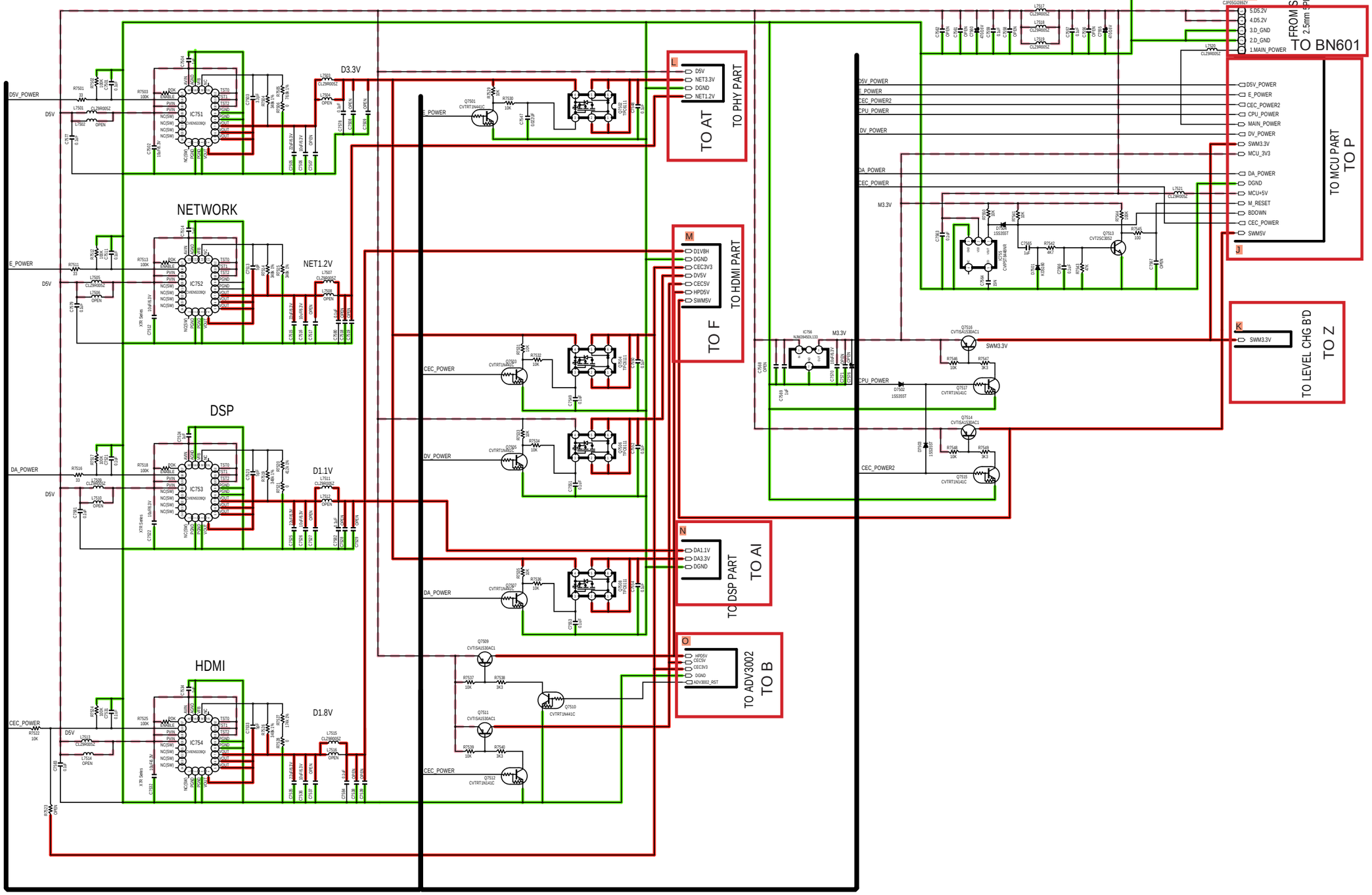


SCHEMATIC DIAGRAMS (7/18)

HDMI PART

GND LINE | POWER+ LINE | POWER- LINE | STBY POWER | ANALOG AUDIO1 | DIGITAL AUDIO1

DIGITAL SUPPLY PART



SCHEMATIC DIAGRAMS (8/18)

DIGITAL SUPPLY PART

GND LINE | POWER+ LINE | POWER- LINE | STBY POWER | ANALOG AUDIO1 | DIGITAL AUDIO1

MCU PART

TO AA

TO MCU LEVEL CHG.

TO CN101
TO FRONT B'D

AVR-X1000 ONLY
CN761
AVR-E300 : CJP25GA285ZN
AVR-X1000 : CJP27GA285ZN

TO AZ
TO AUDIO PART

TO A
TO ADV3002 PART

TO IP CONVERT
TO 2A

TO DIGITAL SUPPLY
TO J

TO HDMI
TO E

TO G
TO HDMI PART

TO DSP PART
TO AK

TO MAIN DAC
TO AM

AVR-X1000E3 ONLY
OTHER OPEN

IC761
CVIR5F56108VNFP

HDMI CEC_PART

EEPROM PART

* AVR-E300/X1000 VERSION OPTION

VER.	R7663(PU)	R7664(PD)
X1000 E3	OPEN	0
X1000 E2	0	OPEN
X1000 E1C	10K	10K
X1010 E1C	3K3	18K
X1000 JP	10K	22K
E300 E3	18K	3K3

REMOTE IN

AVR-X1000E3 ONLY

CN762
CJP07GA193ZY
1.RESET
2.VCC
3.TXD
4.RXD
5.DGND
6.CNVSS
7.DSP BOOT

CN763
CJP11GA193ZY
1.RESET
2.MCU_3V3
3.TDI
4.TCK
5.DGND
6.MD0
7.MD1
8.EMLE
9.TRST#
10.TDO
11.TMS

RS232C Update
1.00mm FFC

MP : OPEN
E20/EMULATOR
1.00mm FFC

TO DM860 PART
TO AR

TO DIR PART
TO AC

GND LINE
POWER+ LINE
POWER- LINE
STBY POWER
ANALOG AUDIO1
DIGITAL AUDIO1

SCHEMATIC DIAGRAMS (9/18)
MCU PART

MCU_LEVEL_CHG

TO BN502
TO MAIN B'D
2.0mm 7PIN WAFER
CN771
CJP07G1288ZY
1.FRONT_RLY
2.CS_RLY
3.HP_RLY
4.ASO_DET
5.DC_PROT
6.THEMALDET_A
7.THEMALDET_B

TO AD
TO DIR PART
AB
JTAG_TCK
JTAG_TDI
JTAG_TMS
JTAG_TDOO
APLD_CLK
APLD_DATA
APLD_CS

Z
SWM3.3V
TO DIGITAL SUPPLY
TO K

CN772
CJP04GB113ZY
1.3.3V
2.TX
3.RX
4.DGND
UPDATE 1.00mm 4PIN FFC

DETECT PARTS
MIC/ HP

PROTECT PARTS

OPEN

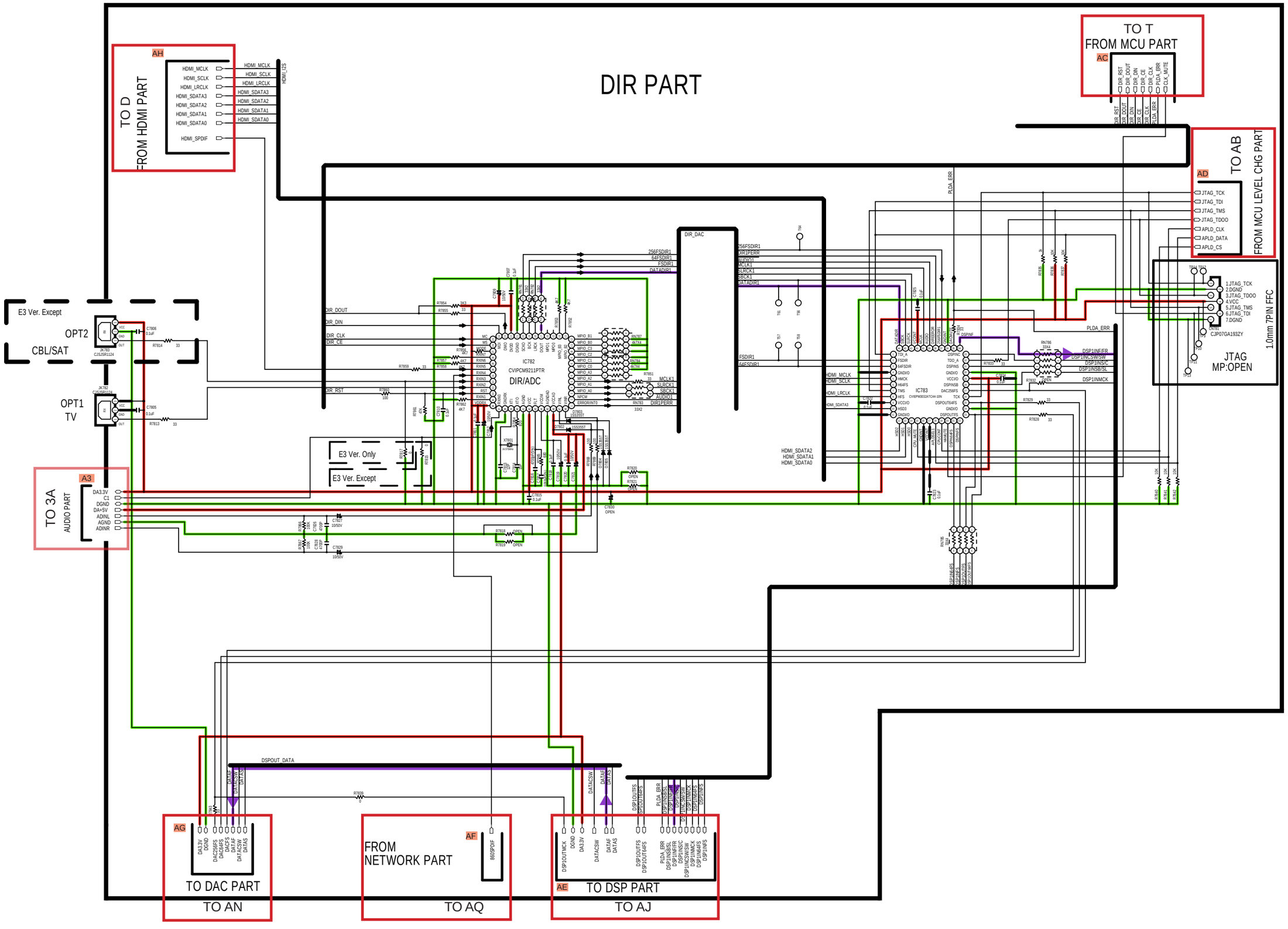
AA
TO Y

FRONT_RLY
CS_RLY
HP_RLY
PLD_WRITE
JTAG_TDO
JTAG_TOKIAPLD_CS
JTAG_TOKIAPLD_DATA
JTAG_TOKIAPLD_CLK
TXD
RXD
MIC_DET
HP_DET
DGND
HP_DETMIC_DET
DC_DETASO
THERMAL_A
THERMAL_B

GND LINE
POWER+ LINE
POWER- LINE
STBY POWER
ANALOG AUDIO1
DIGITAL AUDIO1

SCHEMATIC DIAGRAMS (10/18)
MCU_LEVEL_DHG PART

DIR PART



SCHEMATIC DIAGRAMS (11/18)

DIR PART

GND LINE | POWER+ LINE | POWER- LINE | STBY POWER | ANALOG AUDIO1 | DIGITAL AUDIO1 | DIGITAL AUDIO2

DSP PART

FROM DIGITAL SUPPLY PART
TO N
AI
DGND
DA1.1V
DA3.3V

AJ
FROM DIR PART
TO AE
DSP1OUTMCK
DGND
DA3.3V
DATACSW
DATAF
DATAS
DSP1OUTFS
DSP1OUT64FS
FLDA_ESR
DSP1_LESRSL
DSP1INFEFR
DSP1INSSC
DSP1INSCSNSW
DSP1INSCK
DSP1IN64FS
DSP1INFS

1A
TO HDMI PART
TO A1
DATAF
DATAC/SW
DATAS
DATASB
DSPOUTFS
DSPOUT64FS
DSPOUTMCK

DSPROM_RST
DSP_CONT
DSP_FLAG0
DSP_RST

IC791
CVIADSP21487KSWZ-2B
300MHz

IC792
CVIW9864G6JH1-6

IC793
MX29LV160DBTI-70G

CN791
CJP11GA1932V
1.0mm 10PIN FFC
MP:OPEN
EMULATOR
1.TCK
2.GND
3.TDO
4.VCC
5.TMS
6.TRST
7.EMV
8.NC
9.TDI
10.GND
11.NC

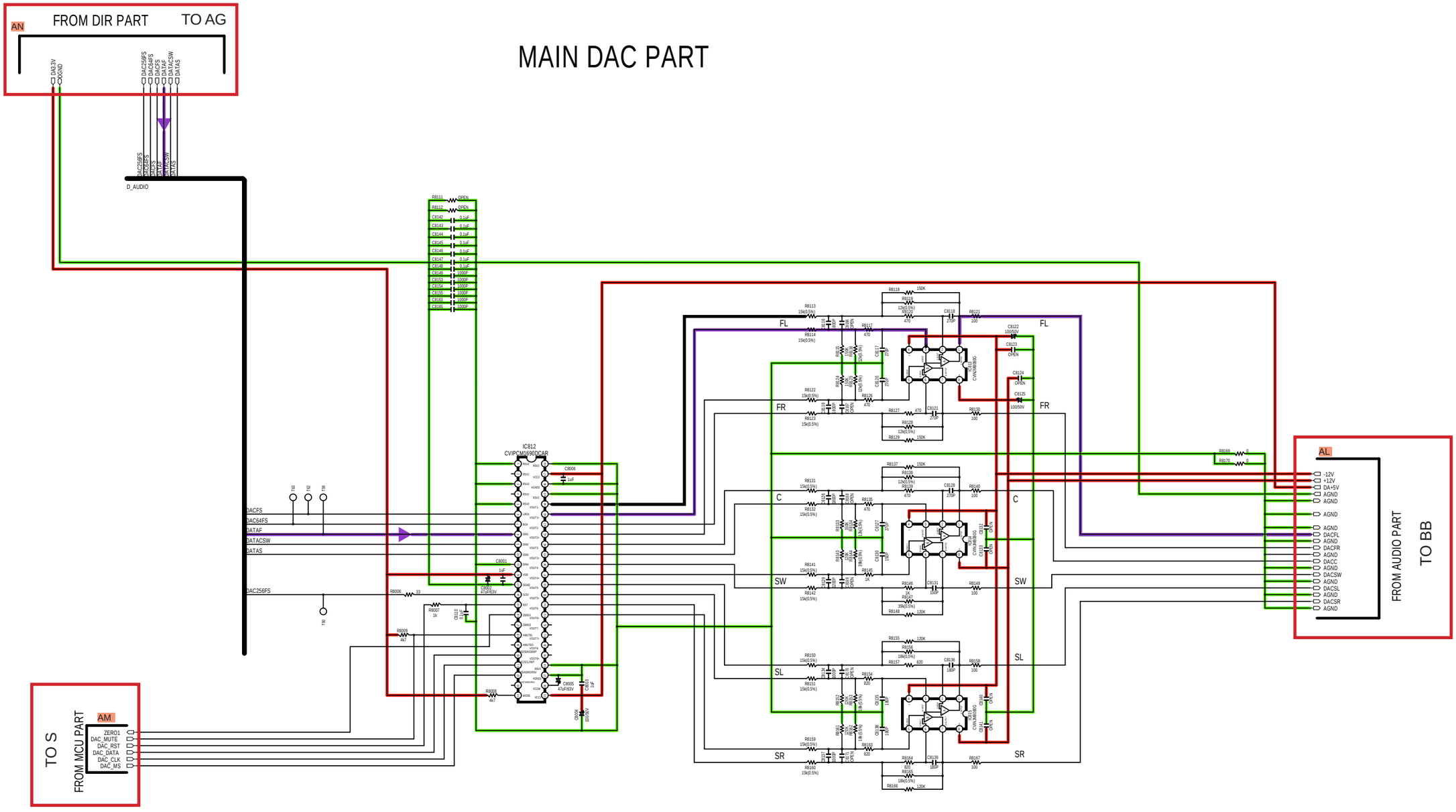
TO R
FROM MCU PART
AK
DSPROM_RST
DSP_MOSI
DSP_MISO
DSP_CLK
DSP_RST
DSP_FLAG0
DSP_ICS

DSP_MOSI
DSP_MISO
DSP_CLK
DSP_ICS

SCHEMATIC DIAGRAMS (12/18)
DSP PART

GND LINE
POWER+ LINE
POWER- LINE
STBY POWER
ANALOG AUDIO1
DIGITAL AUDIO1
DIGITAL AUDIO2

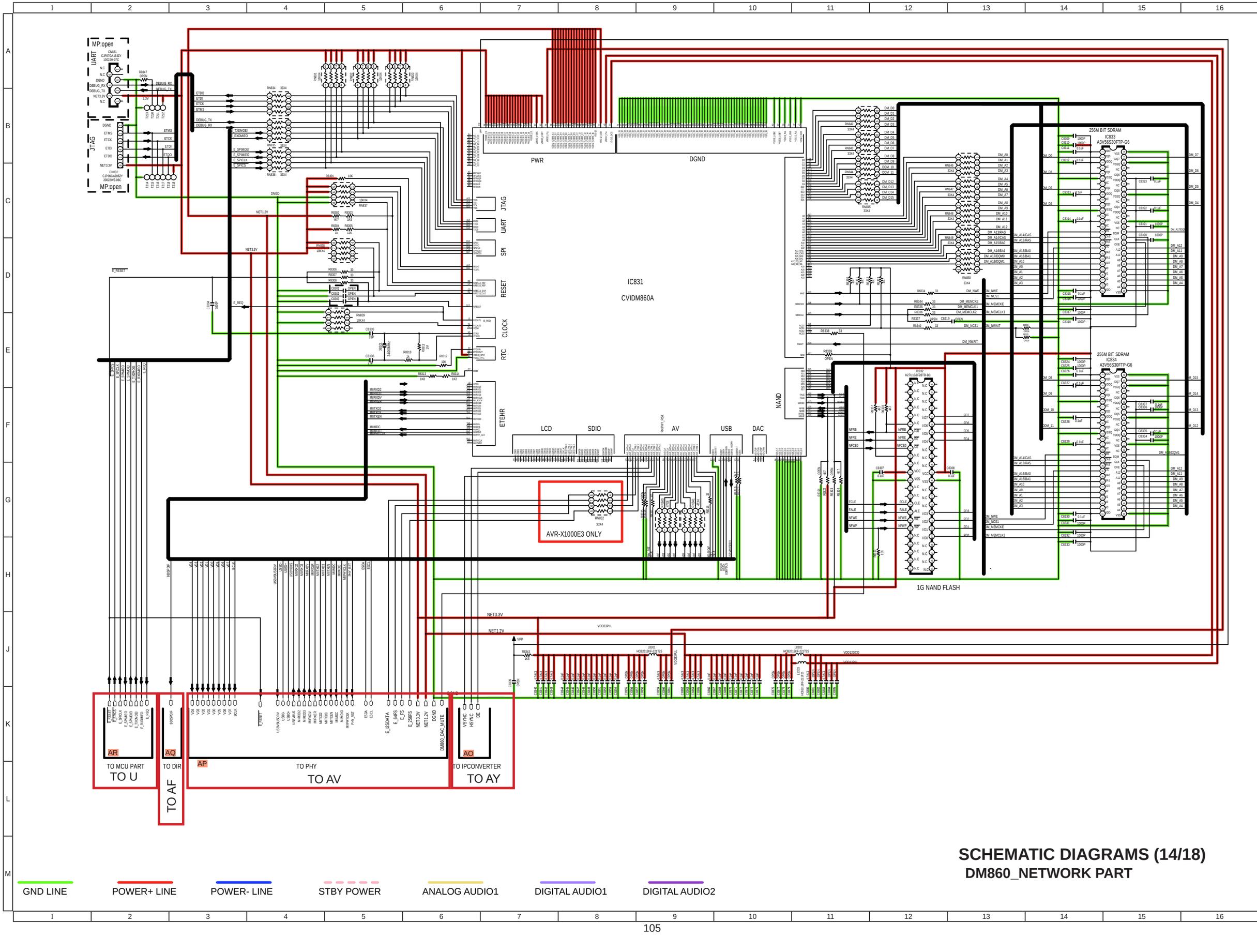
MAIN DAC PART

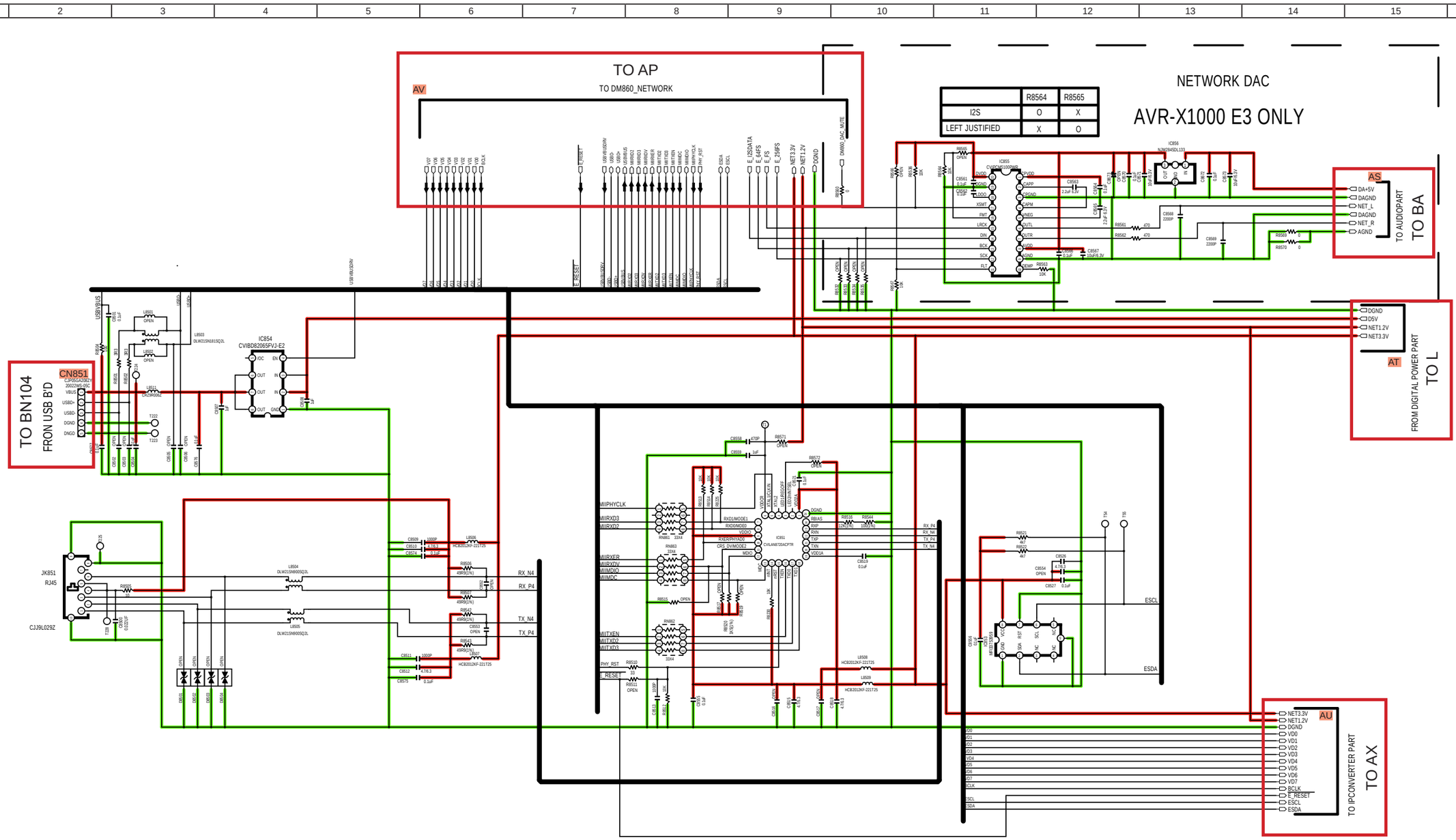


SCHEMATIC DIAGRAMS (13/18)

MAIN DAC PART

GND LINE | POWER+ LINE | POWER- LINE | STBY POWER | ANALOG AUDIO1 | DIGITAL AUDIO1 | DIGITAL AUDIO2

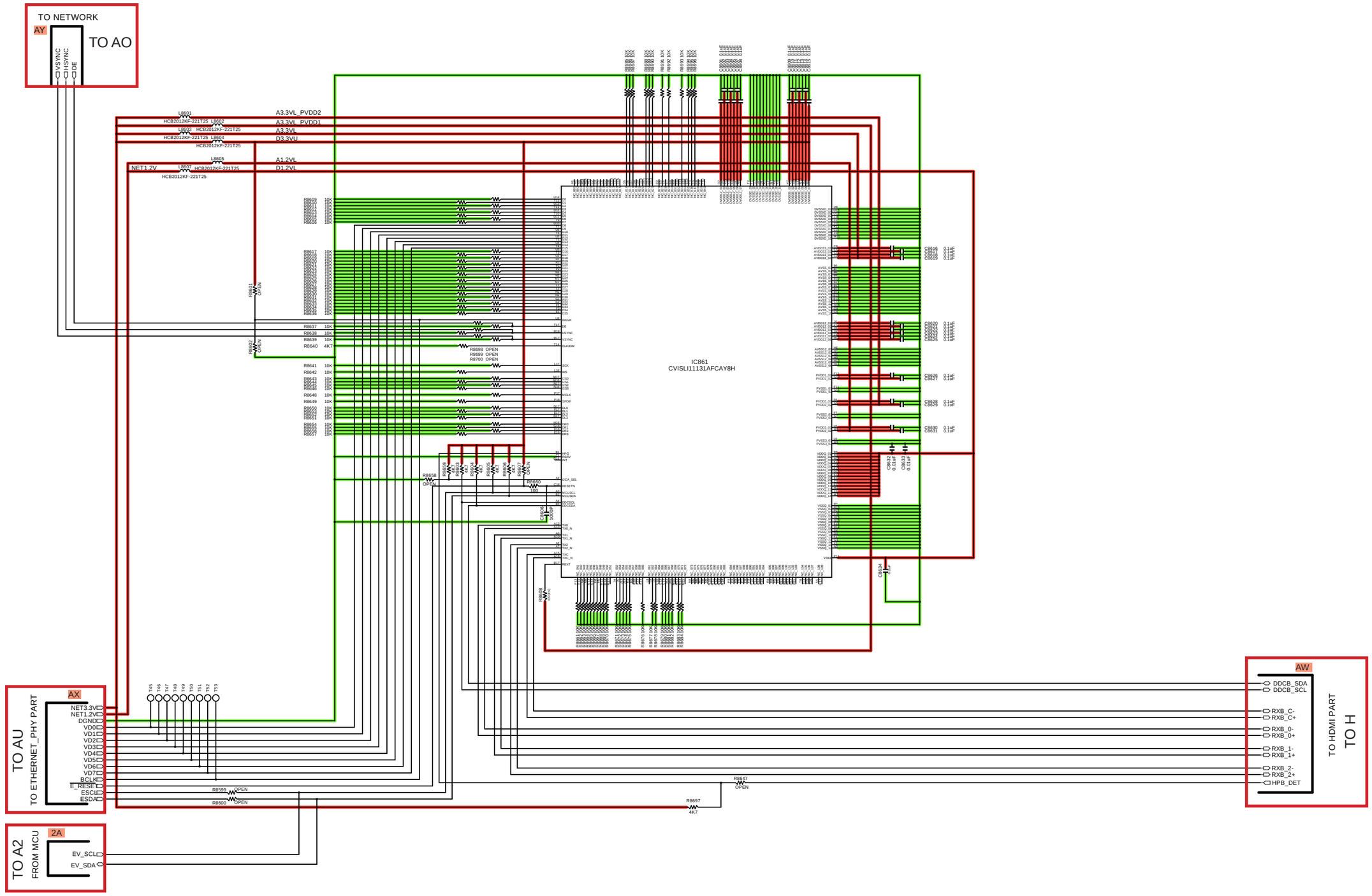

UART
JTAG
MP:open
MP:open
PWR
DGND
IC831
CVIDM860A
JTAG
UART
SPI
RESET
CLOCK
RTC
ETEHR
LCD
SDIO
AV
USB
DAC
NAND
256M BIT SDRAM
IC833
A3V56S30FTP-G6
256M BIT SDRAM
IC834
A3V56S30FTP-G6
1G NAND FLASH
AVR-X1000E3 ONLY
TO MCU PART
TO U
TO DIR
TO AF
TO PHY
TO AV
TO IPCONVERTER
TO AY
AR
AQ
AP
AO
SCHEMATIC DIAGRAMS (14/18)
DM860_NETWORK PART
GND LINE
POWER+ LINE
POWER- LINE
STBY POWER
ANALOG AUDIO1
DIGITAL AUDIO1
DIGITAL AUDIO2



SCHEMATIC DIAGRAMS (15/18)

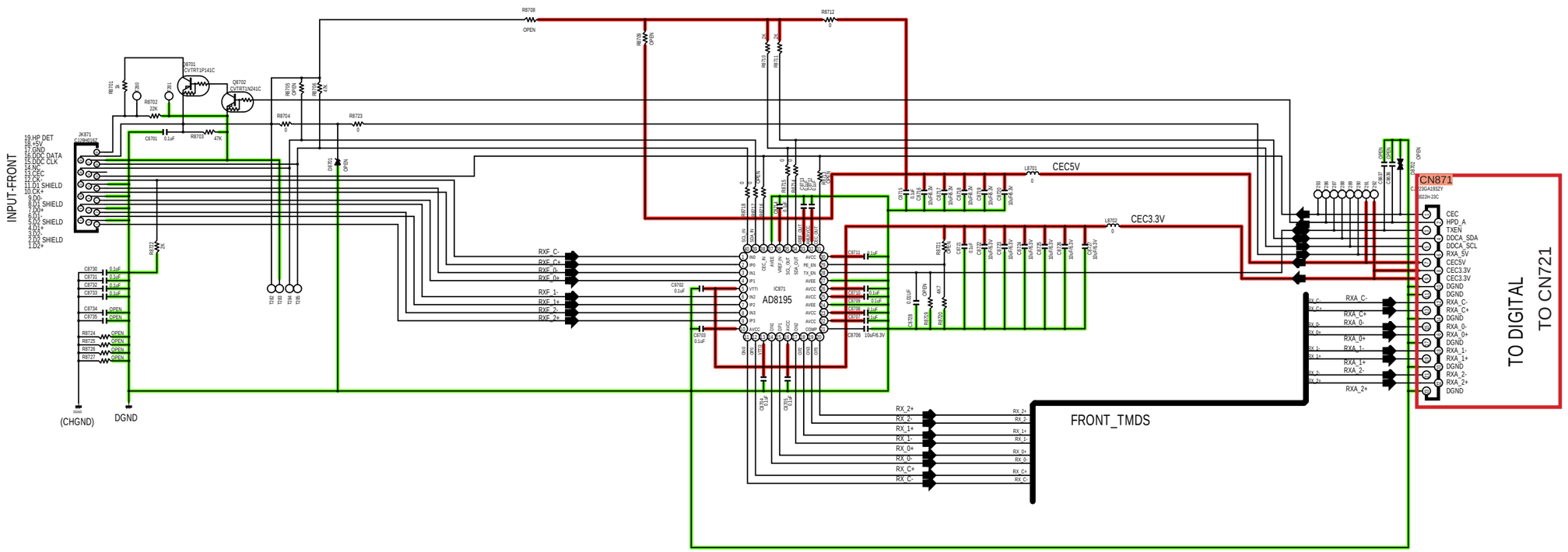
ETHERNET_PHY PART(1/2)

GND LINE | POWER+ LINE | POWER- LINE | STBY POWER | ANALOG AUDIO1 | DIGITAL AUDIO1 | DIGITAL AUDIO2



SCHEMATIC DIAGRAMS (16/18)

ETHERNET_PHY PART(2/2)



SCHEMATIC DIAGRAMS (17/18)

FRONT HDMI PART

GND LINE
POWER+ LINE
POWER- LINE
STBY POWER
ANALOG AUDIO1
DIGITAL AUDIO1
DIGITAL AUDIO2

AUDIO PART

TUNER MODULE

E3 : YST990-A9U0 (FM/AM)
E2 : YST990-R6E0 (FM ONLY)
E1/K : YST990-F8J0 (FM ONLY)

TU891
INT
/RST
/CE
SDIO
SCLK
VCC
R-OUT
L-OUT

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

AVR-X1000E3 ONLY

ZONE2 OUT

PRE OUT SW
E3 Ver. Except

PRE OUT SW
COAXIAL CBL/SAT
E3 version only

COMPOSITE VIDEO IN
CBL/SAT
Media Player
MONITOR

VIDEO PART

X1000E3
R8984,R8995 : 0
C8998,C8999 : 100/50
R8910,R8911 : OPEN
C9014,C9015 : 4.7uF/10V

E300,X1000E/E2/E1/C/K
R8984,R8995 : OPEN
C8998,C8999 : OPEN
R8910,R8911 : 0
C9014,C9015 : OPEN

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
DVD	H	L	X (L)	L	H
SAT/CBL	H	H	X (L)	L	H

TO X
FROM MCU PART
TU_INT
TU_RST
TU_CE
TU_SDIO
TU_SCLK
VINA
VINB
-12V
+12V
MIC_SIGNAL
MIC_GND
VOL_CLK
VOL_DATA
DGND
MUTE_3V3
PRESW_MUTE
ZONE2_MUTE

TO AS
FROM PHY PART
DA+5V
DAGND
NET_L
DAGND
NET_R
AGND

TO AL
DAC PART
-12V
+12V
DA+5V
AGND
DACFL
DACFR
DACC
DACSW
DACSL
DACSR
DAC_FL
DAC_FR
DAC_C
DAC_SW
DAC_SL
DAC_SR

TO A3
DIR PART
DA3.3V
C1
DGND
DA+5V
ADINL
AGND
ADINR

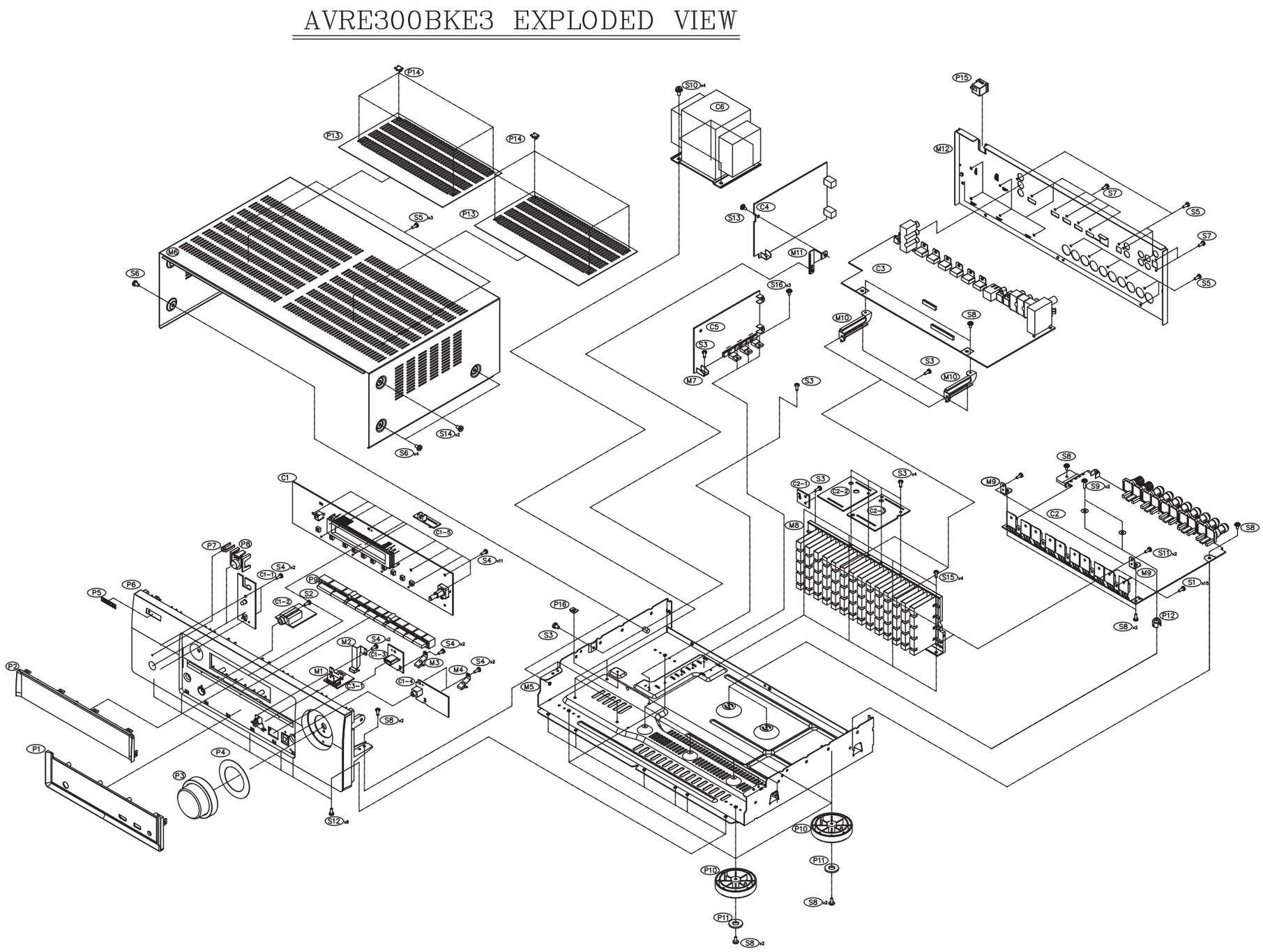
TO BN501
TO MAIN B'D
WAFER/13P/2mm
CN892
FL
AGND
SL
AGND
CEN
AGND
SR
AGND
FR
+12V
RLY_GND
MUTE_+B
DGND

TO BN301
FROM REGULATOR B'D
WAFER/09P/2.5mm
CN893
DA+5V
PRE_GND(DA)
+12V
AGND
-12V
RLY_GND
VGND

GND LINE
POWER+ LINE
POWER- LINE
STBY POWER
ANALOG AUDIO1
DIGITAL AUDIO1
DIGITAL AUDIO2
ANALOG VIDEO

SCHEMATIC DIAGRAMS (18/18)
AUDIO PART
VIDEO PART

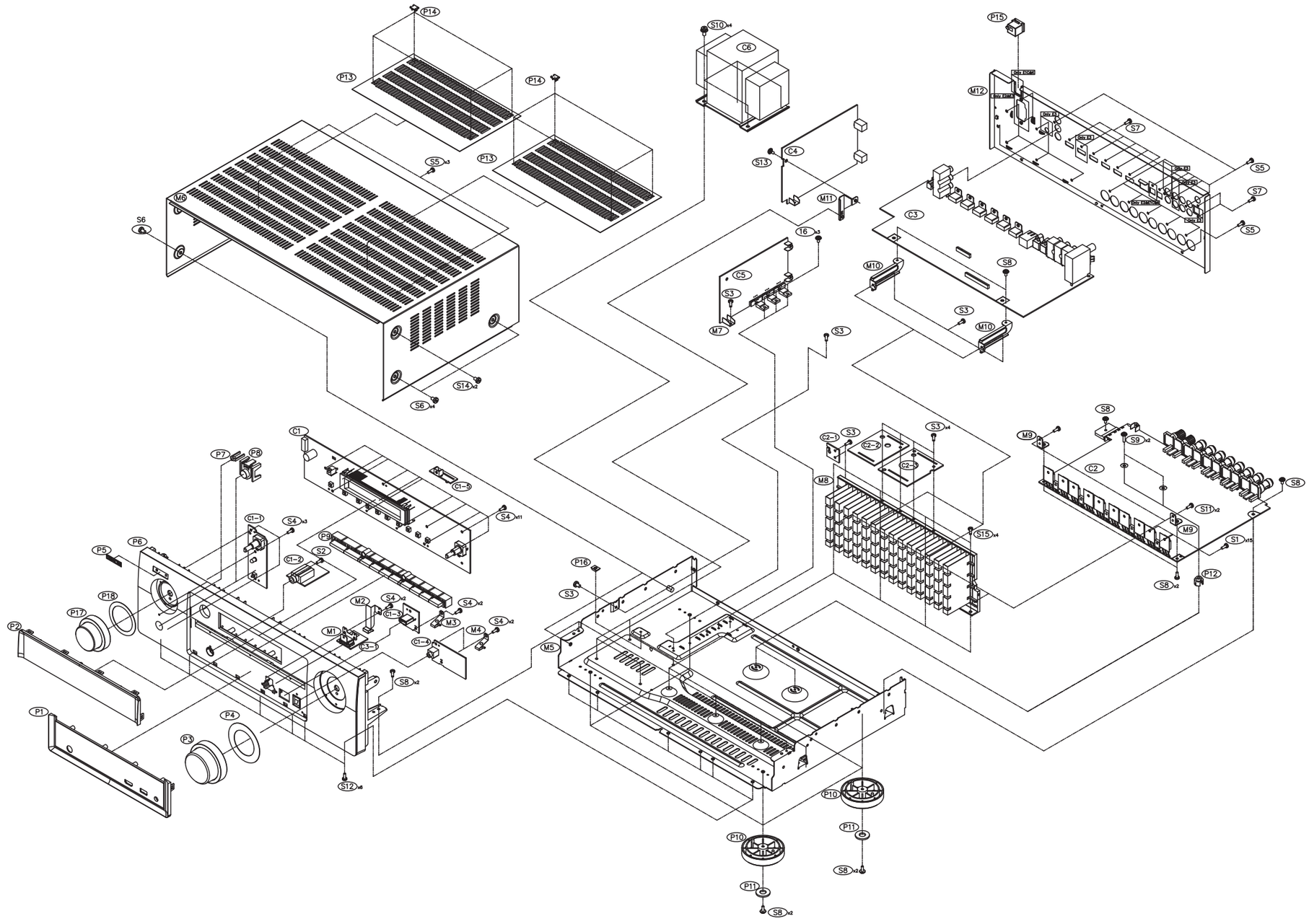
EXPLODED VIEW (FOR AVRE300)



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

EXPLODED VIEW (FOR AVRX1000)

AVRX1000BKE3&BKE2&BKE1C&SPE1C&K&X1010SPE1C EXPLODED VIEW



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

PARTS LIST OF EXPLODED VIEW

Please refer to the last chapter.

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

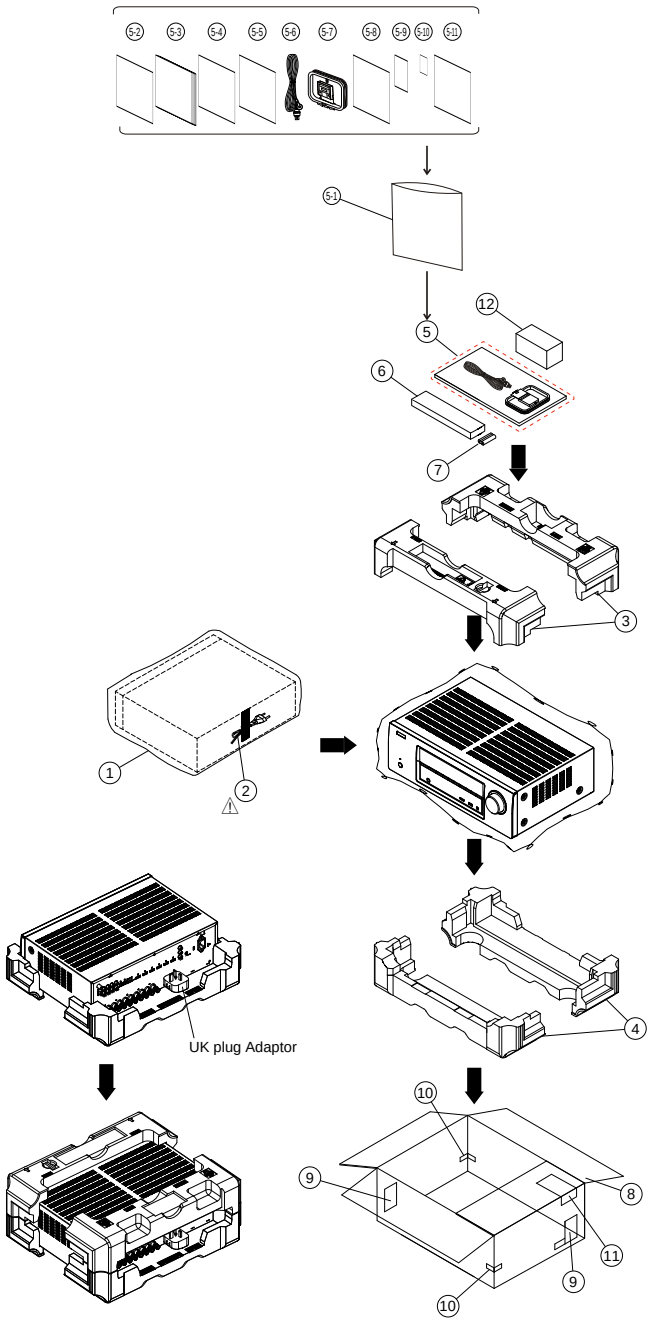
∗P.W.B. ASS'Y indicated by "nsp" on this table cannot be supplied. When repairing the P.W.B. ASS'Y, check the board parts list and order replacement parts.

∗Parts indicated by the " ★ " mark are not illustrated in the exploded view.

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

Personal notes:

PACKING VIEW



PARTS LIST OF PACKING & ACCESSORIES

Please refer to the last chapter.

- ✻Parts indicated by "nsp" on this table cannot be supplied.
- ✻Parts indicated by the " ★ " mark are not illustrated in the exploded view.
- ✻The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

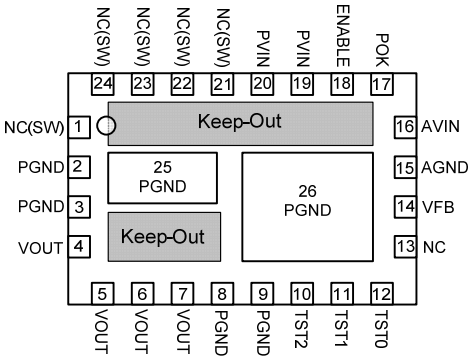
Personal notes:

SEMICONDUCTORS

Only major semiconductors are shown. Genaral semiconductors etc. are omitted from list.
The semiconductors which have a detailed drawing in a schematic diagram are omitted from list.

1. IC's

EN5339QI (DIGITAL : IC751~154)

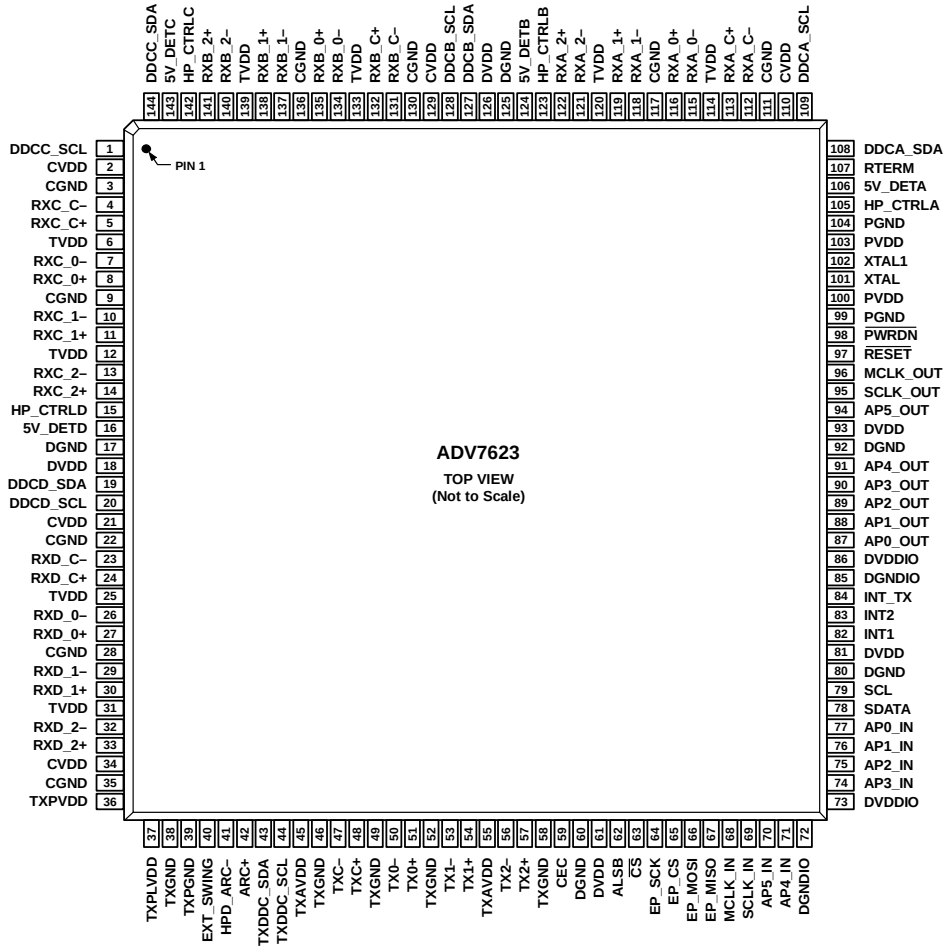


EN5339QI Terminal Functions

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.

ADV7623 (DIGITAL : IC721)



Pin Function Descriptions

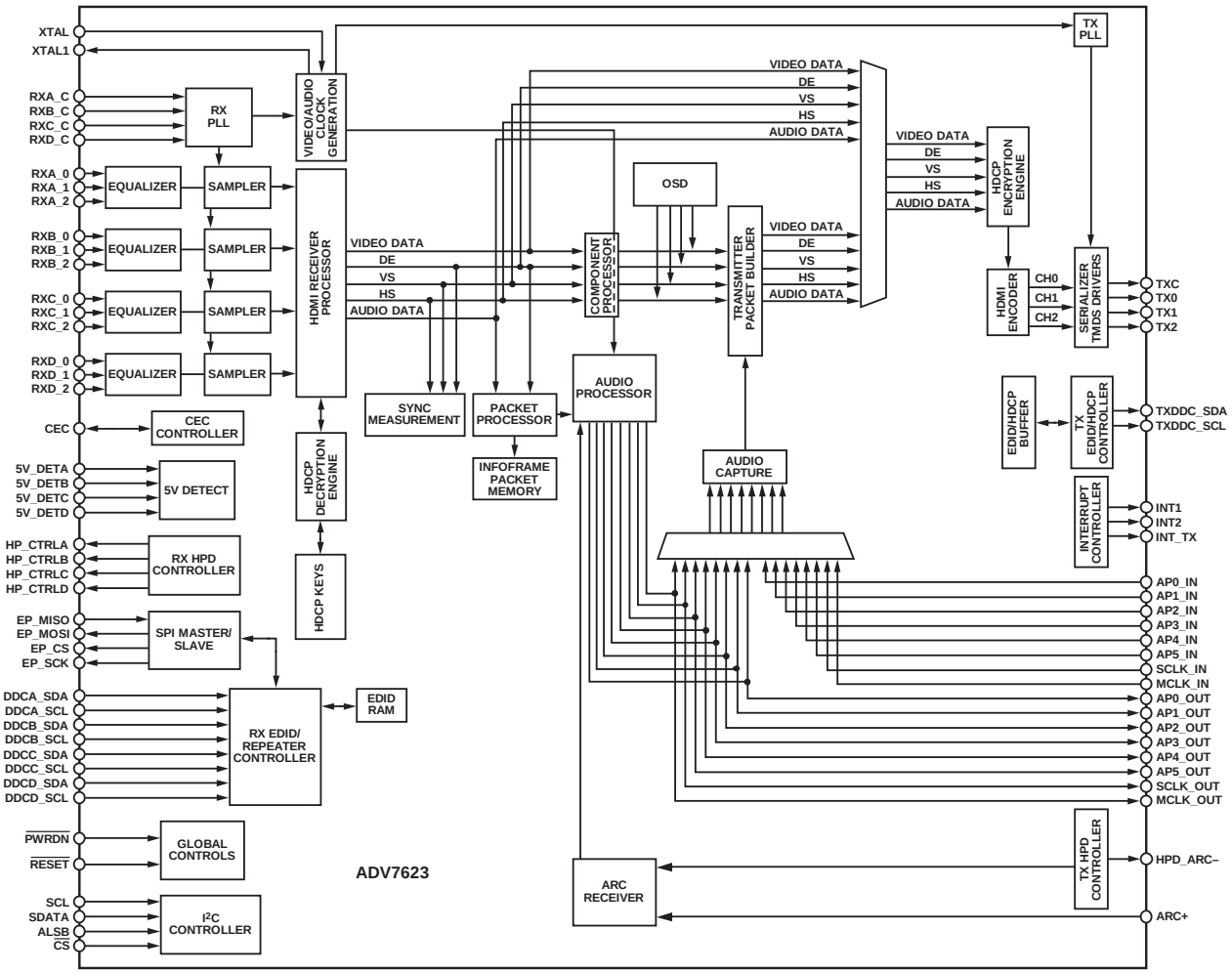
Pin No.	Mnemonic	Type	Description
1	DDCC_SCL	Digital input	HDCP Slave Serial Clock Port C. DDCC_SCL is a 3.3 V input that is 5 V tolerant.
2	CVDD	Power	Receiver Comparator Supply Voltage (1.8 V).
3	CGND	Ground	TVDD and CVDD Ground.
4	RXC_C–	HDMI input	Digital Input Clock Complement of Port C in the HDMI 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.

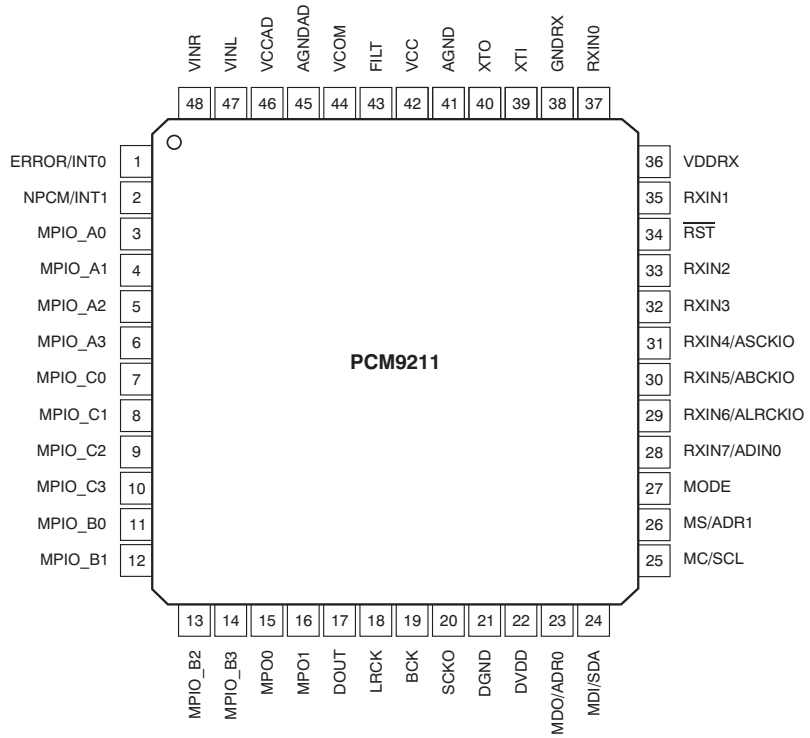
Pin No.	Mnemonic	Type	Description
13	RXC_2−	HDMI input	Digital Input Channel 2 Complement of Port C in the HDMI Interface.
14	RXC_2+	HDMI input	Digital Input Channel 2 True of Port C in the HDMI Interface.
15	HP_CTRLD	Digital output	Hot Plug Detect for Port D.
16	5V_DETD	Digital input	5 V Detect Pin 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



PCM9211 (DIGITAL : IC782)



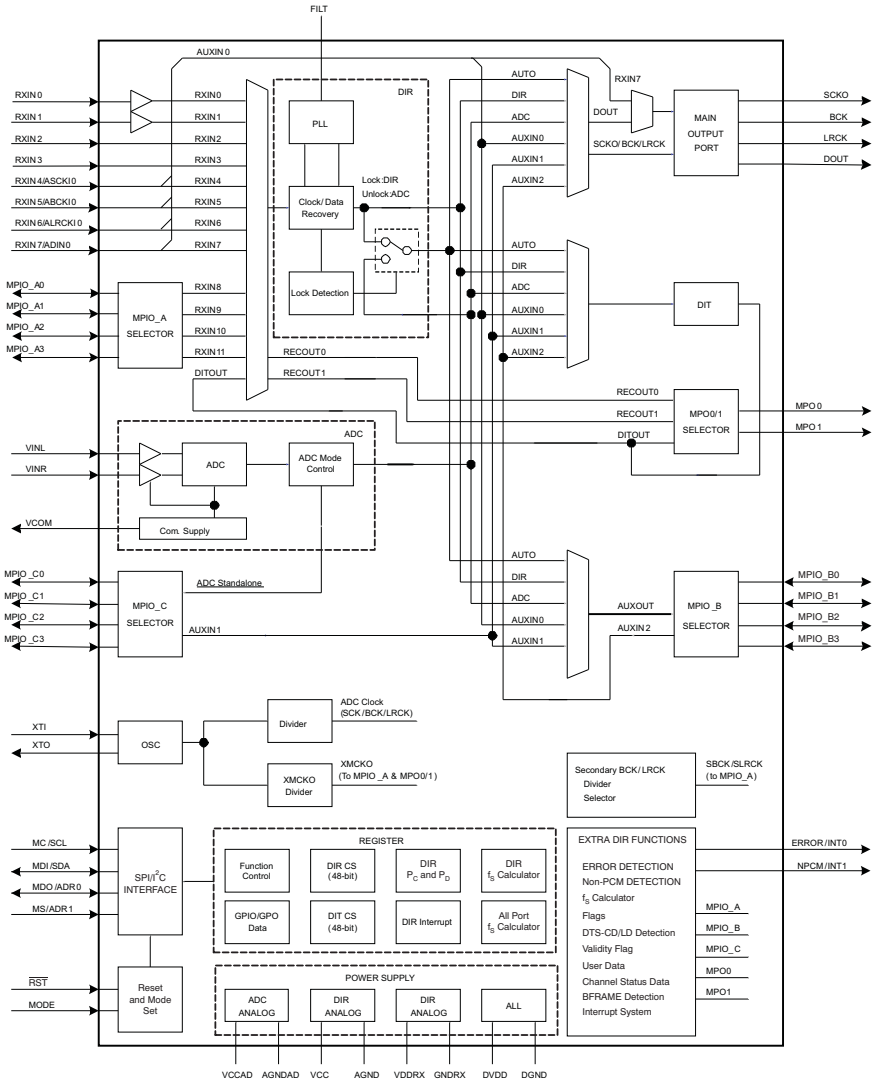
PIN Functions

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

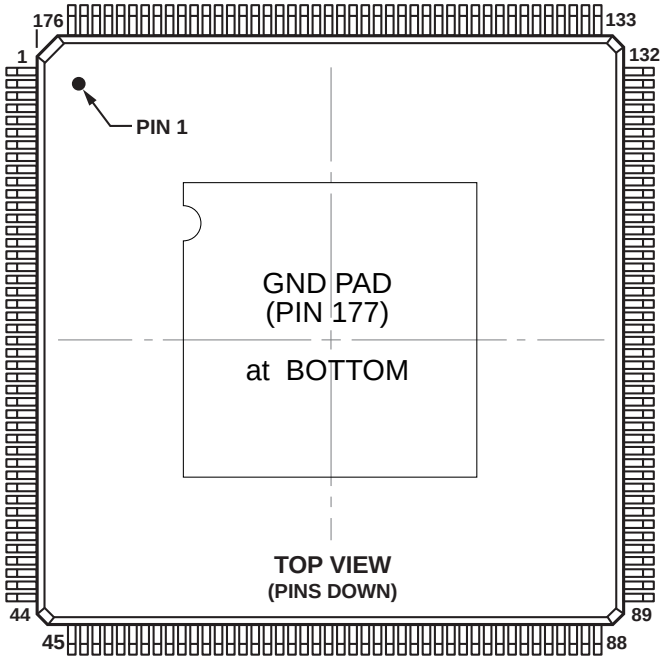
PIN				DESCRIPTION
NO.	NAME	I/O	5-V TOLERANT	
35	RXIN1	I	Yes	Biphase signal, input 1, built-in coaxial amplifier
36	VDDRX	–	–	Power supply, 3.3 V (typ.), for RXIN0 and RXIN1.
37	RXIN0	I	Yes	Biphase signal, input 0, built-in coaxial amplifier
38	GNDRX	-	-	Ground, for RXIN
39	XTI	I	No	Oscillation circuit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

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

PCM9211 BLOCK DIAGRAM



ADSP21487KSWZ-2B (DIGITAL : IC791)

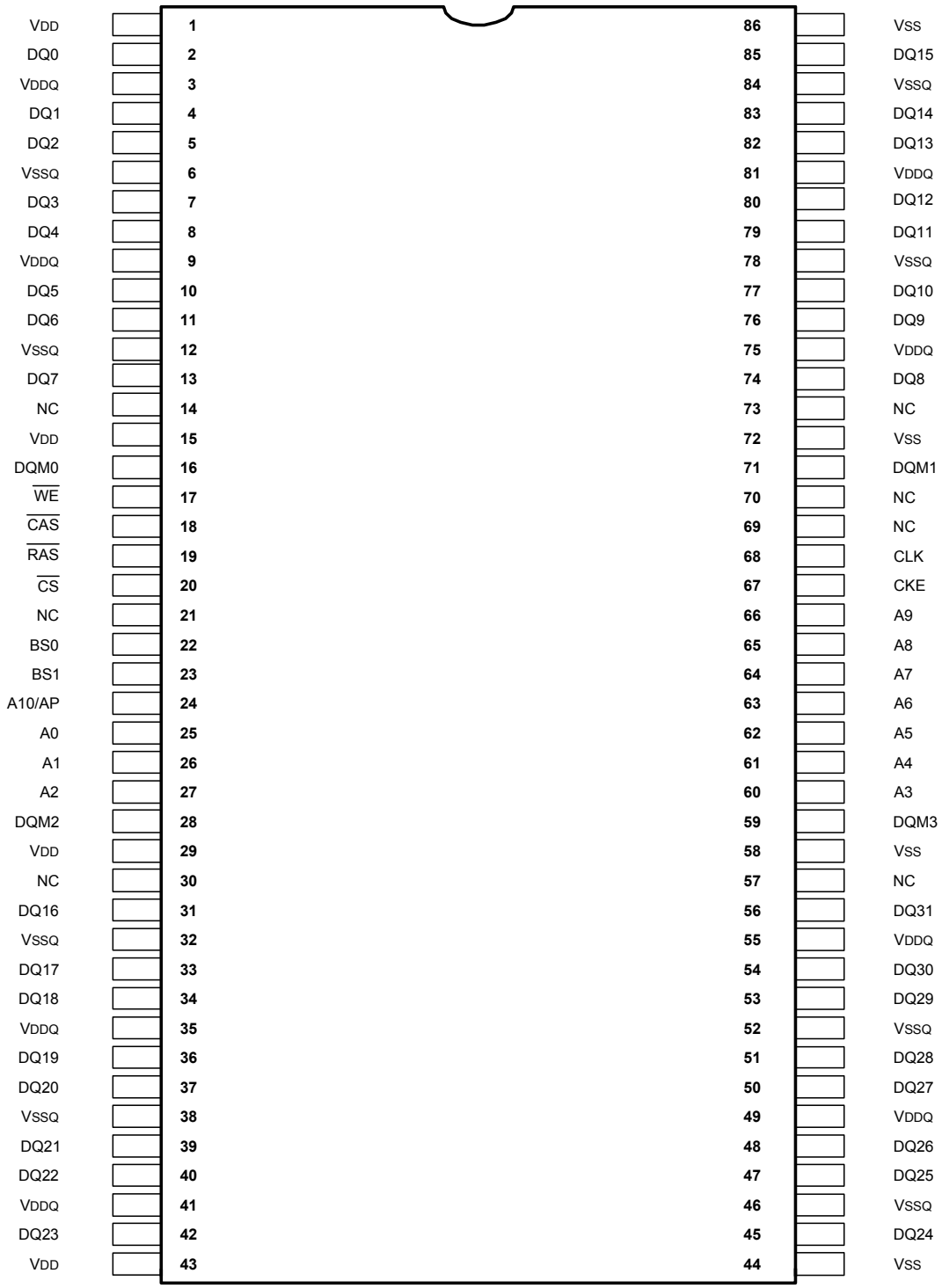


ADSP21487KSWZ-2B Terminal Function

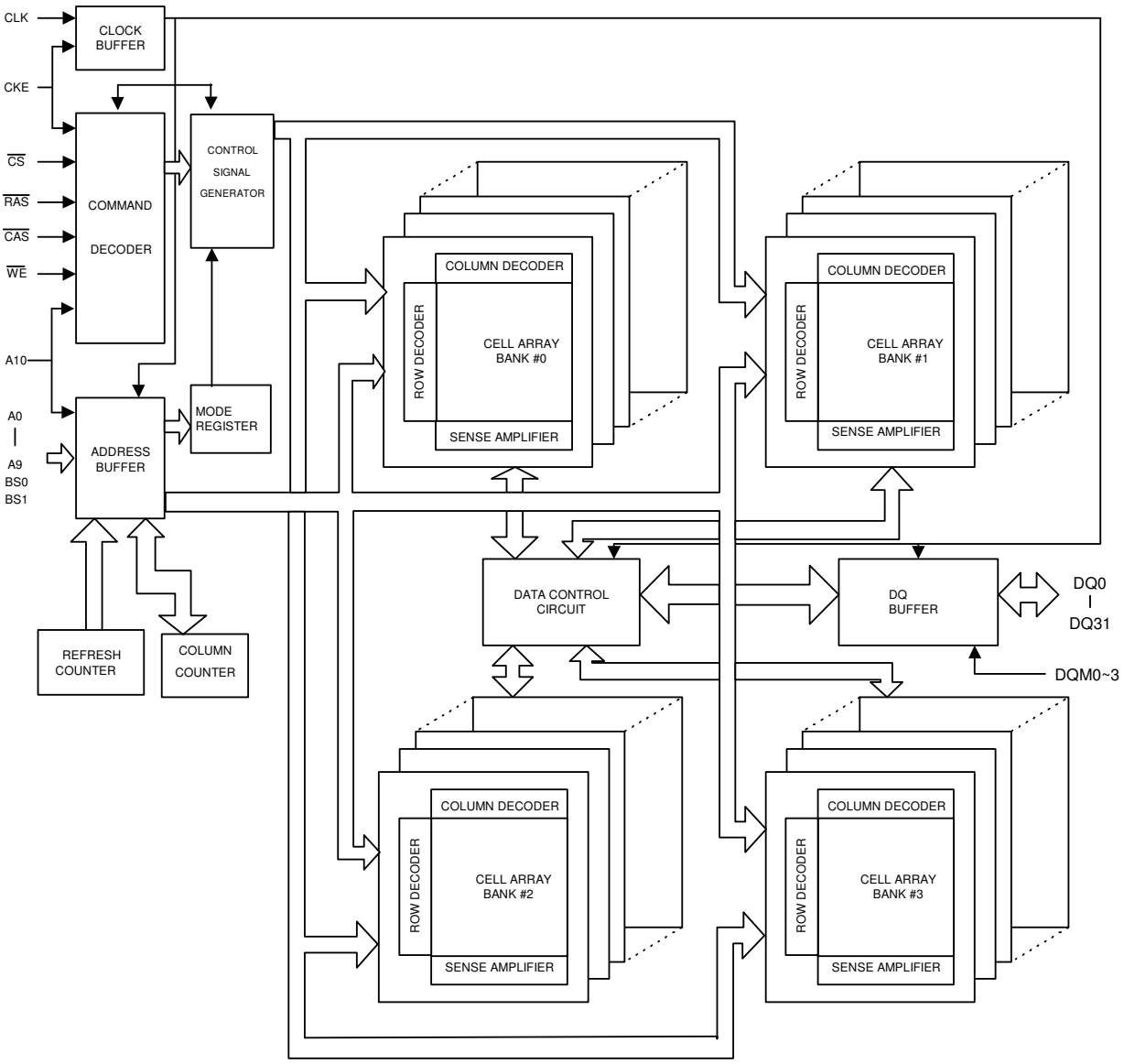
Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.
SDDQM	1	V_{DD_EXT}	45	DAI_P10	89	V_{DD_INT}	133
$\overline{MS0}$	2	DPI_P08	46	V_{DD_INT}	90	FLAG0	134
SDCKE	3	DPI_P07	47	V_{DD_EXT}	91	FLAG1	135
V_{DD_INT}	4	V_{DD_INT}	48	DAI_P20	92	FLAG2	136
CLK_CFG1	5	DPI_P09	49	V_{DD_INT}	93	NC	137
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*

* at BOTTOM

W9864G6JH-6 (DIGITAL : IC792)



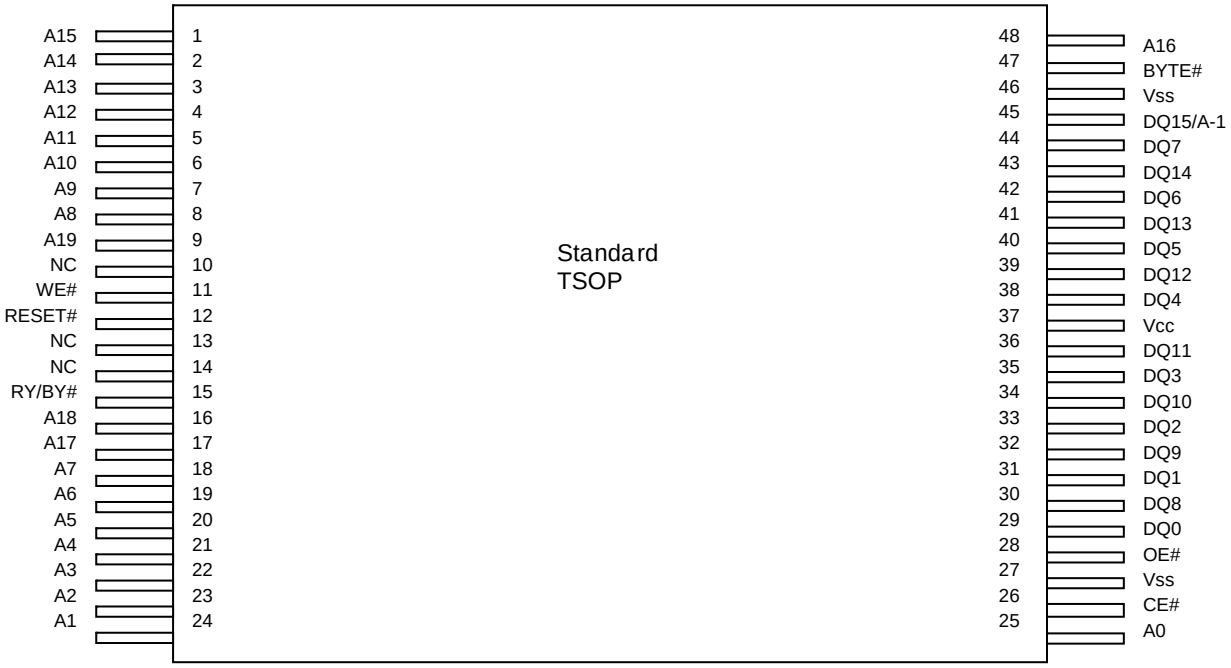
W9864G6JH-6 Block diagram



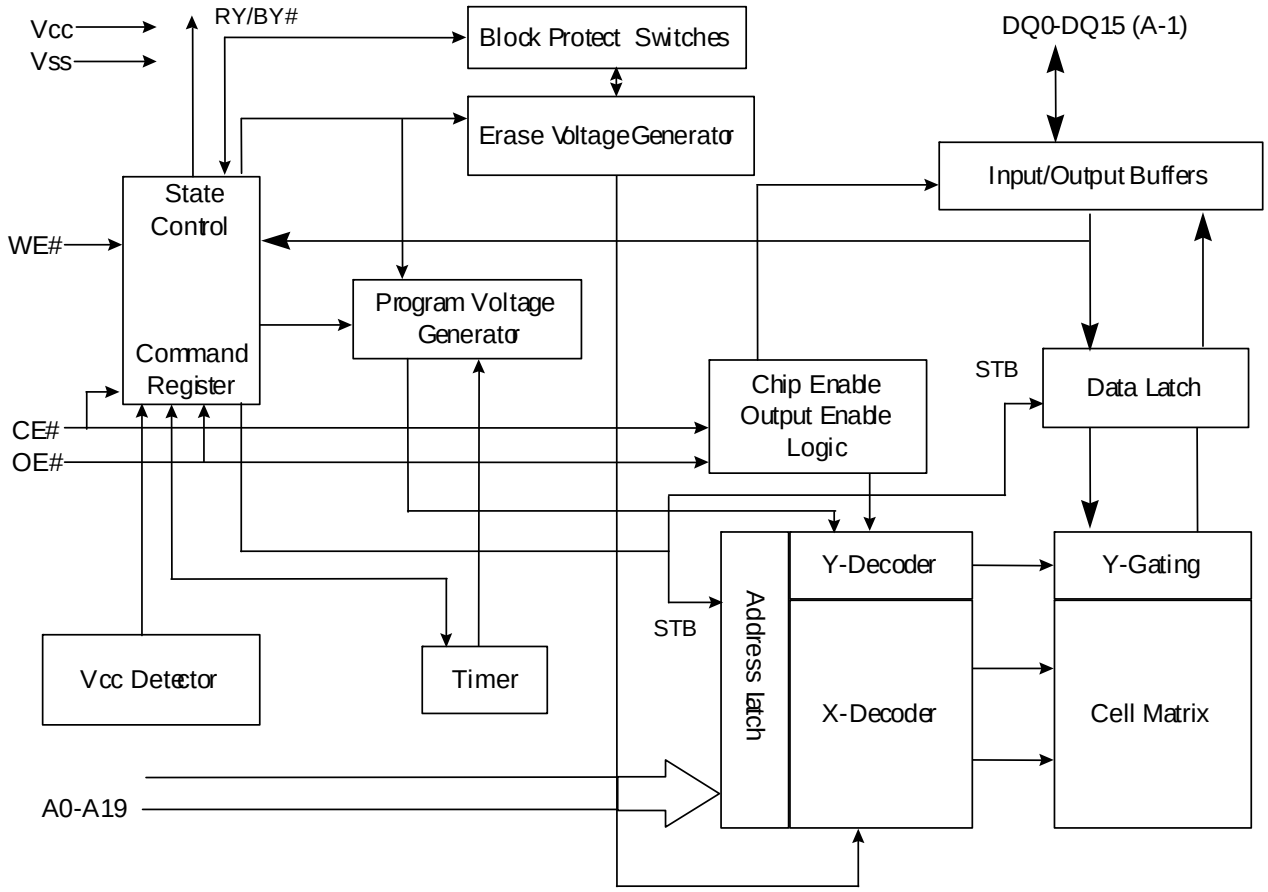
W9864G6JH-6 Pin description

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

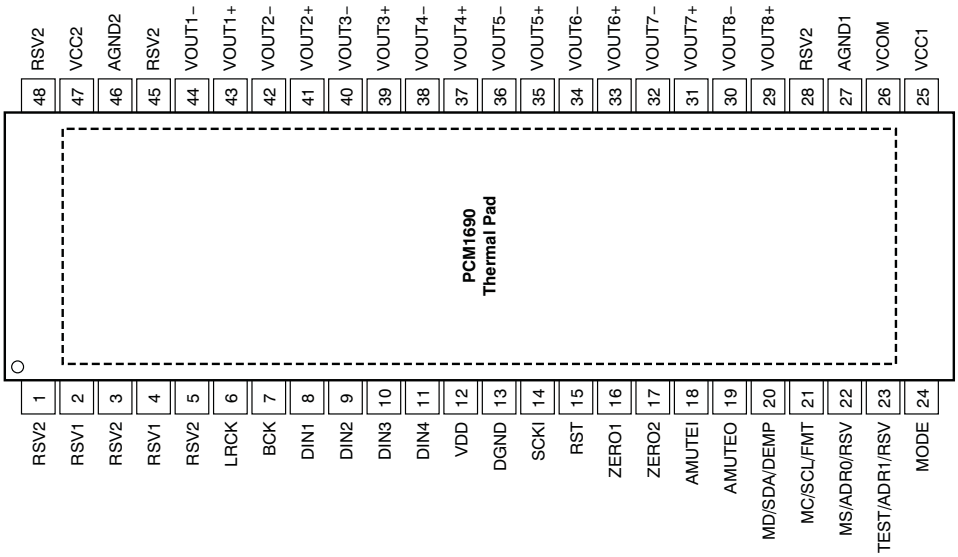
MX29LV160DBTI-70G (DIGITAL : IC793)



MX29LV160DBTI-70G Block Diagram



PCM1690 (DIGITAL : IC812)



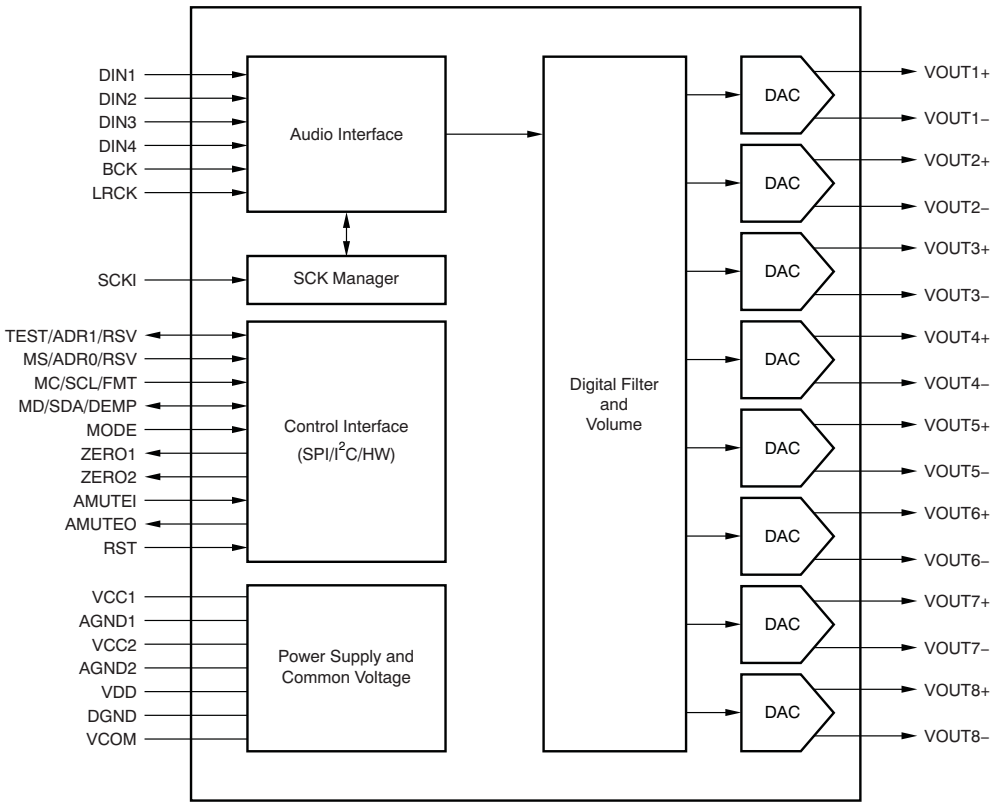
PCM1690 Pin Function

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

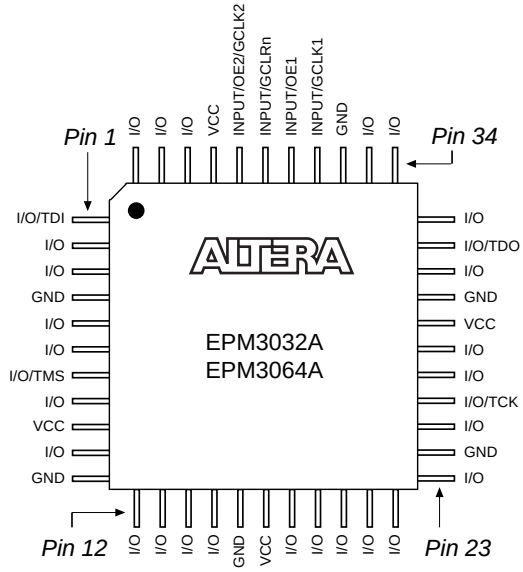
TERMINAL		I/O	PULL-DOWN	5-V TOLERANT	DESCRIPTION
NAME	PIN				
VOUT1+	43	O	No	No	Positive analog output from DAC1
VOUT1-	44	O	No	No	Negative analog output from DAC1
RSV2	45	—	—	—	Reserved, tied to analog ground
AGND2	46	—	—	—	Analog ground 2
VCC2	47	—	—	—	Analog power supply 2, +5 V
RSV2	48	—	—	—	Reserved,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

(1) Open-drain configuration in out mode.

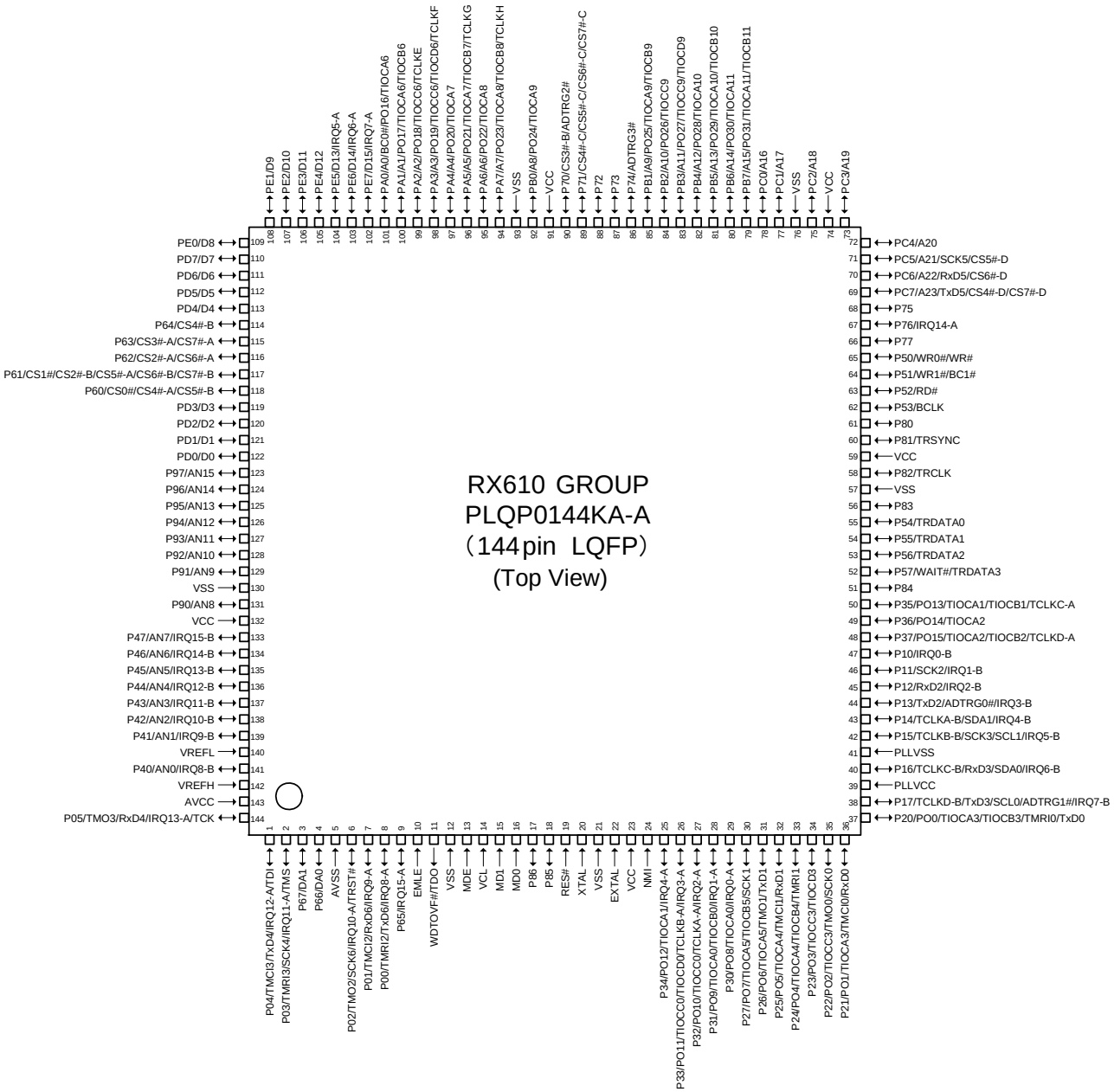
PCM1690 FUNCTIONAL BLOCK DIAGRAM



EPM3032A (DIGITAL : IC783)



R5F56108VNFP (DIGITAL : IC761)



R5F56108VNFP Terminal Functions

Pin	Pin Name	Symbol	I/O	Pu/Pd	LvCnv	STBY	STOP	CEC STBY	Function
1	P04/IRQ12-A/TMCI3/ TxD4/TDI	NC	I/O/I	M3VPu	-	-/-/I	-/-/I	I	NC
2	P03/IRQ11-A/TMRI3/ SCK4/TMS	NC	I/I	M3VPu	-	-/I	-/I	I	NC
3	P67/DA1	HIN SELA	O	-	-	L	L	L	TC4051 Control(for CEC Standby HDMI detect)
4	P66/DA0	HIN SELB	O	-	-	L	L	L	TC4051 Control(for CEC Standby HDMI detect)
5	AVSS	AVSS	-	-	-	-	-	-	GND
6	P02/IRQ10-A/TMO2/ SCK6/TRST#	NC	I/I	Pd	-	I/I	I/I	I	NC
7	P01/IRQ9-A/TMCI2/ RxD6	RXD MI232O	I	-	-	I	I	I	Data received from the external pin(AMX)/ MITSUBISHI writer rewrite
8	P00/IRQ8-A/TMRI2/ TxD6	TXD MO232I	O	-	-	L	L	L	Data transfer to external pin(AMX)/MITSUBISHI writer rewrite
9	P65/IRQ15-A	POWER KEY	I	M3VPu	-	I	I	I	POWER KEY (WAIT MODE cancel, interrupt port)
10	EMLE	EMLE	I	Pd	-	-	-	-	Emulator communication pin
11	WDTOVF#/TDO	TDO/ WDTOVF#	O/O	-	-	-	-	-	Emulator communication pin

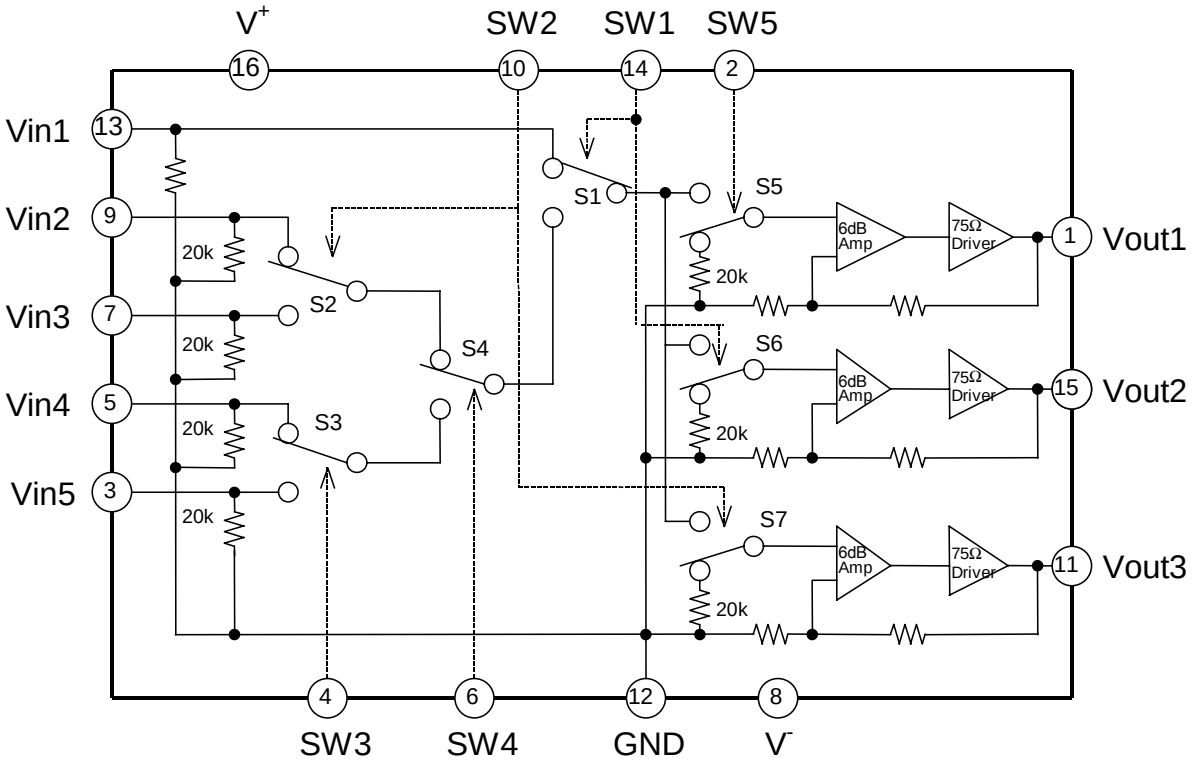
Pin	Pin Name	Symbol	I/O	Pu/Pd	LvCnv	STBY	STOP	CEC STBY	Function
12	VSS	VSS	I	-	-	-	-	-	GND
13	MDE	MDE	I	Pd	-	-	-	-	NC
14	VCL	VCL	I	-	-	-	-	-	Smoothing capacitor connection pin
15	MD1	MD1	I	M3VPu	-	-	-	-	NC
16	MD0	MD0	I	M3VPu	-	-	-	-	NC
17	P86	CEC POWER2	O	-	-	L	L	H	CEC Standby Mode=3 Control)
18	P85	NC	O	-	-	L	L	L	NC
19	RES#	RESET	I	-	-	-	-	-	Reset input pin (reset:L)
20	XTAL	XTAL	I	-	-	-	-	-	Clock input
21	VSS	VSS	-	-	-	-	-	-	GND
22	EXTAL	EXTAL	-	-	-	-	-	-	Clock output
23	VCC	VCC	-	-	-	-	-	-	+3.3V
24	NMI	NMI	I	M3VPu	-	-	-	-	NC
25	P34/IRQ4-A/PO12/ TIOCA1	BDOWN	I	-	-	I	I	I	Power failure detection pin(Power failure:L)
26	P33/IRQ3-A/PO11/ TIOCC0/TIOCD0/ TCLKB-A	PLDAERR	I	-	-	L	L	L	PLD ERROR detection pin
27	P32/IRQ2-A/PO10/ TIOCC0/TCLKA-A	NC	O	-	-	L	L	L	NC
28	P31/IRQ1-A/PO9/ TIOCA0/TIOCB0	ADV7623 INT1	I	-	-	I	I	I	HDMI transmitter /receiver / OSD (ADV7623) INT1 output pin
29	P30/IRQ0-A/PO8/ TIOCA0	RC IN	I	-	-	I	I	I	Remote Control Input
30	P27/PO7/TIOCA5/ TIOCB5/SCK1	DAC MUTE	O	-	-	L	L	L	DAC MUTE CONTROL (PCM1690)
31	P26/PO6/TIOCA5/ TMO1/TxD1	NC	O	-	-	L	L	L	NC
32	P25/PO5/TIOCA4/ TMCI1/RxD1	NC	O	-	-	L	L	L	NC
33	P24/PO4/TIOCA4/ TIOCB4/TMRI1	TU RST	O	SW3VPu	-	L	L	L	TUNER Reset
34	P23/PO3/TIOCC3/ TIOCD3	E RESET	O (ODR)	N3VPu	-	L	L	L	ETHERNET RESET control pin (DM860A)
35	P22/PO2/TIOCC3/ TMO0/SCK0	E POWER	O	-	-	L	L	L	ETHERNET POWER SUPPLY (NET3.3V) control pin.(ON:H)
36	P21/PO1/TIOCA3/ TMCI0/RxD0	E_RXDMIEO	I	N3VPu	-	I	I	I	ETHERNET communication control pin (DM860A)
37	P20/PO0/TIOCA3/ TIOCB3/TMRI0/TxD0	E_TXDMOEI	O	N3VPu	-	L	L	L	ETHERNET communication control pin (DM860A)
38	P17/IRQ7-B/ TCLKD-B/TxD3/ SCL0/ADTRG1#	TU SCLK	O	-	-	L	L	L	TUNER control pin
39	PLLVCC	PLLVCC	-	-	-	-	-	-	+3.3V
40	P16/IRQ6-B/ TCLKC-B/RxD3/ SDA0	TU SDIO	I_O	-	-	L	L	L	TUNER control pin
41	PLLVSS	PLLVSS	-	-	-	-	-	-	GND
42	P15/IRQ5-B/ TCLKB-B/SCK3/ SCL1	HSCL (400k)	O	CEC3VPu	-	L	L	L	I2C-SCL(ADV7623/ADV3002)
43	P14/IRQ4-B/ TCLKA-B/SDA1	HSDA (400k)	I_O	CEC3VPu	-	L	L	L	I2C-SDA(ADV7623/ADV3002)
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	EEPROM SDA	I_O	M3VPu	-	I	I	I	EEPROM control pin
49	P36/PO14/TIOCA2	EEPROM SCL	O	M3VPu	-	I	I	I	EEPROM control pin
50	P35/PO13/TIOCA1/ TIOCB1/TCLKC-A	NC	O	-	-	L	L	L	NC
51	P84	CEC_OUT	O	-	-	L	L	-	CEC-D signal input pin

Pin	Pin Name	Symbol	I/O	Pu/Pd	LvCnv	STBY	STOP	CEC STBY	Function
52	P57/WAIT#/ TRDATA3	ADV3002 RST	O	SW3VPu	-	L	L	L	RESET control pin (ADV3002)
53	P56/TRDATA2	E SPI MOEI	O	N3VPu	-	L	L	L	ETHERNET communication control pin (DM860A)
54	P55/TRDATA1	ADV7623 RST	O	SW3VPu	-	L	L	L	HDMI Tx/Rx/OSD RESET control pin (ADV7623)
55	P54/TRDATA0	E SPI MIEO	I	N3VPu	-	I	L	I	ETHERNET communication control pin (DM860A)
56	P83	E SPI CLK	O	N3VPu	-	L	L	L	ETHERNET communication control pin (DM860A)
57	VSS	VSS	-	-	-	-	-	-	GND
58	P82/TRCLK	FL CE	O	-	-	L	L	L	FL Chip Enable Control
59	VCC	VCC	-	-	-	-	-	-	+3.3V
60	P81/TRSYNC	FL RST	O	-	-	L	L	L	FL Reset Control
61	P80	VIN A	O	-	3->5	L	L	L	CVBS Select(NJM2595)
62	BCLK/P53(Input only)	NC	I	-	-	-	-	-	NC
63	P52/RD#	EV SCL	O	-	-	L	L	L	SLI 11131 CONTROL
64	P51/WR1#/BC1#	EV SDA	O	-	-	L	L	L	SLI 11131 CONTROL
65	P50/WR0#/WR#	NC	O	-	-	L	L	L	NC
66	P77	VIN B	O	-	3->5	L	L	L	CVBS Select(NJM2595)
67	P76/IRQ14-A	TU GPO2_INT	I	-	-	L	L	L	TUNER GPIO2 input pin
68	P75	DSP ROMRST	O	-	-	I	I	I	Memory reset for DSP (Reset : L)
69	PC7/A23/CS4#-D/ CS7#-D/TxD5	DSP MOSI	O	DA3VPu	-	L	L	L	DSP control pin (ADSP21487KSWZ-2B)
70	PC6/A22/CS6#-D/ RxD5	DSP MISO	I	DA3VPu	-	L	L	L	DSP control pin (ADSP21487KSWZ-2B)
71	PC5/A21/CS5#-D/ SCK5	DSPI CLK	O	DA3VPu	-	L	L	L	DSP control pin (ADSP21487KSWZ-2B)
72	PC4/A20	DSP RST	O	-	-	L	L	L	DSP(ADSP21487KSWZ-2B) reset output pin (Reset : L)
73	PC3/A19	DSP FLAG0	I	Pd	-	L	L	L	DSP control pin (ADSP21487KSWZ-2B)
74	VCC	VCC	-	-	-	-	-	-	+3.3V
75	PC2/A18	DSP ICS	O	DA3VPu	-	L	L	L	DSP control pin (ADSP21487KSWZ-2B)
76	VSS	VSS	-	-	-	-	-	-	GND
77	PC1/A17	GRN LED	O	-	-	L	L	L	POWER LED control pin(ON:H)
78	PC0/A16	RED LED	O	-	-	L/H	L	H	POWER/STANDBY LED control pin (ON:H)
79	PB7/A15/PO31/ TIOCA11/TIOCB11	H/P RL	O	-	-	L	L	L	HEADPHONE RELAY Control
80	PB6/A14/PO30/ TIOCA11	FRONT RL	O	-	-	L	L	L	SPEAKER FRONT RELAY Control
81	PB5/A13/PO29/ TIOCA10/TIOCB10	HIN SELC	O	-	-	L	L	L	TC4051 Control(for CEC Standby HDMI detect)
82	PB4/A12/PO28/ TIOCA10	TU_SEN	O	-	-	L	L	L	TUNER control pin
83	PB3/A11/PO27/ TIOCC9/TIOCD9	C/S RL	O	-	-	L	L	L	SPEAKER CEN/SURR RELAY Control
84	PB2/A10/PO26/ TIOCC9	NC	O	-	-	L	L	L	NC
85	PB1/A9/PO25/ TIOCA9/TIOCB9	D5V POWER	O	-	-	L	L	H	Digital 5V power supply control pin(5→3.3V,1.8V)
86	P74/ADTRG3#	DIR CE	O	-	-	L	L	L	DIR control pin (PCM9211)
87	P73	DIR DIN	O	-	-	L	L	L	DIR control pin (PCM9211)
88	P72	DIR DOUT	I	DA3VPu	-	I	I	I	DIR control pin (PCM9211)
89	P71/CS4#-C/ CS5#-C/CS6#-C/ CS7#-C	DIR CLK	O	-	-	L	L	L	DIR control pin (PCM9211)
90	P70/CS3#-B/ ADTRG2#	DIR RST	O	-	-	L	L	L	DIR control pin (PCM9211)
91	VCC	VCC	-	-	-	-	-	-	+3.3V
92	PB0/A8/PO24/ TIOCA9	7623 ROM HOLD	O	-	-	L	L	L	SPI FLASH ROM HOLD control pin (ADV7623)
93	VSS	VSS	-	-	-	-	-	-	GND
94	PA7/A7/PO23/ TIOCA8/TIOCB8/ TCLKH	NC	O	-	-	L	L	L	NC
95	PA6/A6/PO22/ TIOCA8	VSEL A	I	-	-	I	I	I	Master Volume rotation detection pin(Rotary encoder)

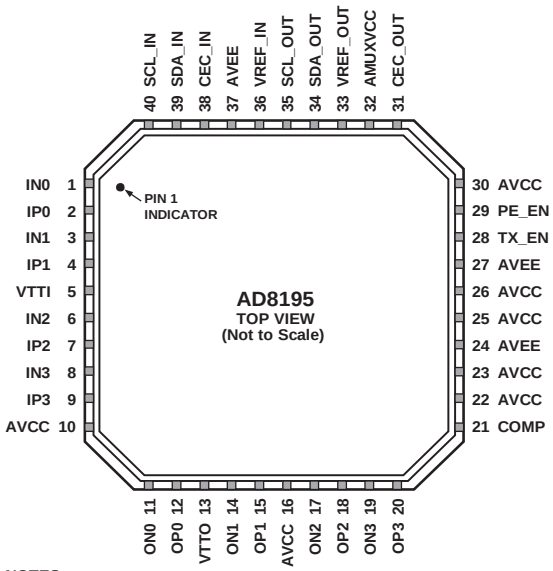
Pin	Pin Name	Symbol	I/O	Pu/Pd	LvCnv	STBY	STOP	CEC STBY	Function
96	PA5/A5/PO21/ TIOCA7/TIOCB7/ TCLKG	VSEL B	I	-	-	I	I	I	Master Volume rotation detection pin(Rotary encoder)
97	PA4/A4/PO20/ TIOCA7	NC	O	-	-	L	L	L	NC
98	PA3/A3/PO19/ TIOCC6/TIOCD6/ TCLKF	NC	O	-	-	L	L	L	NC
99	PA2/A2/PO18/ TIOCC6/TCLKE	PRE Z2 MUTE(X1000 E3)/NC(Except X1000 E3)	O/O	-	-	L	L	L	ZONE2 PRE OUT MUTE control pin
100	PA1/A1/PO17/ TIOCA6/TIOCB6	NC	O	-	-	L	L	L	NC
101	PA0/A0/BC0#/PO16/ TIOCA6	PRE MUTE	O	-	-	L	L	L	PRE SW OUT MUTE control pin
102	PE7/IRQ7-A/D15	ADV7623 INT2	I	-	-	I	I	I	HDMI RECEIVER INT2 output pin (ADV7623)
103	PE6/IRQ6-A/D14	ADV7623 Tx INT	I	-	-	I	I	I	HDMI signal detection pin (ADV7623)
104	PE5/IRQ5-A/D13	NC	O	-	-	L	L	L	NC
105	PE4/D12	NC (E300) ISEL_A(X1000)	I/O	-	-	I/L	I/L	I/L	INPUT SELECTOR (ROTARY ENCODER)
106	PE3/D11	NC (E300) ISEL_B(X1000)	I/O	-	-	I/L	I/L	I/L	INPUT SELECTOR (ROTARY ENCODER)
107	PE2/D10	VOL CLK	O	-	-	L	L	L	FUNCTION/VOLUME control pin(NJU72340A)
108	PE1/D9	VOL DATA	O	-	-	L	L	L	FUNCTION/VOLUME control pin(NJU72340A)
109	PE0/D8	PLD WRITE	O	-	-	L	L	L	A.PLD /JTAG switching control pin
110	PD7/D7	JTAG TDO	I	-	-	L	L	L	A.PLD rewriting control pin(JTAG)
111	PD6/D6	JTAG TMS/ APLD CS	O/O	-	-	L	L	L	A.PLD rewriting & control pin
112	PD5/D5	JTAG TDI/ APLD DATA/ DAC DATA	O/O	-	-	L	L	L	A.PLD rewriting & control /DAC control pin
113	PD4/D4	JTAG TCK/ APLD CLK/ DAC CLK	O/O	-	-	L	L	L	A.PLD rewriting & control /DAC control pin
114	P64/CS4#-B	NC	O	-	-	L	L	L	NC
115	P63/CS3#-A/CS7#-A	THERMAL A	I	-	-	L	L	L	PROTECTION Detect(THERMAL A)
116	P62/CS2#-A/CS6#-A	E SPI CS	O	N3VPu	-	L	L	L	ETHERNET communication control pin(DM860A)
117	P61/CS1#/CS2#-B/ CS5#-A/CS6#-B/ CS7#-B	DAC MS	O	-	-	L	L	L	D/A converter control pin(PCM1690)
118	P60/CS0#/CS4#-A/ CS5#-B	DAC RST	O	-	-	L	L	L	D/A converter control pin(PCM1690)
119	PD3/D3	NC	O	-	-	L	L	L	NC
120	PD2/D2	NC	O	-	-	L	L	L	NC
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 supply (DA3.3V & DA1.2V) control pin (ON:H)
124	P96/AN14	CEC POWER	O	-	-	L	L	H	CEC power supply (CEC5V & CEC3.3V & CEC1.8V) control pin for CEC STANDBY.
125	P95/AN13	DV POWER1	O	-	-	L	L	*	Digital (VIDEO) power supply (DV5V & DV3.3V) control pin. *CEC STANDBY:MODE1=H, MODE2=L
126	P94/AN12	THERMAL B	I	-	-	L	L	L	PROTECTION Detect(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 pin (POWER ON: H CEC ON = STANDBY: H)
129	P91/AN9	Tx EN	O	-	-	L	L	L	Front HDMI(AD8195) Chip Enable
130	VSS	VSS	-	-	-	-	-	-	GND
131	P90/AN8	MODE	I	-	-	I	I	I	MODEL switch input pin (No assign)
132	VCC	VCC	-	-	-	-	-	-	+3.3V
133	P47/IRQ15-B/AN7	DC DET/ASO	I	-	-	I	I	I	PROTECTION Detect(DC DET)/(ASO)
134	P46/IRQ14-B/AN6	H/P DET / MIC DET	I	-	-	I	I	I	Headphone Detect/MIC Detect
135	P45/IRQ13-B/AN5	KEY3	I	SW3VPu	-	I	I	I	Button input 3

Pin	Pin Name	Symbol	I/O	Pu/Pd	LvCnv	STBY	STOP	CEC STBY	Function
136	P44/IRQ12-B/AN4	KEY2	I	SW3VPu	-	I	I	I	Button input 2
137	P43/IRQ11-B/AN3	KEY1	I	SW3VPu	-	I	I	I	Button input 1
138	P42/IRQ10-B/AN2	E SPI REQ	I	Pd	-	I	L	I	ETHERNET communication control pin(DM860A)
139	P41/IRQ9-B/AN1	H5V DET	I	-	-	I	I	I	HDMI INPUT 5V (for EDID / HOT PLUG) detection pin
140	AVSS	AVSS	-	-	-	-	-	-	GND
141	P40/IRQ8-B/AN0	CEC_IN	I	SW3VPu	-	I	I	I	CEC-D signal input pin
142	VREF	VREF	-	-	-	-	-	-	Reference voltage (+3.3V) input pin for A/D port
143	AVCC	AVCC	-	-	-	-	-	-	+3.3V
144	P05/IRQ13-A/TMO3/ RxD4/TCK	TCK/RXD MITSUBISHI/ NC(NORMRAL)	I/I/I	M3VPu	-	-/-/I	-/-/I	I	NC

NJM2595M (DIGITAL : IC901)



AD8195 (F-HDMI : IC871)



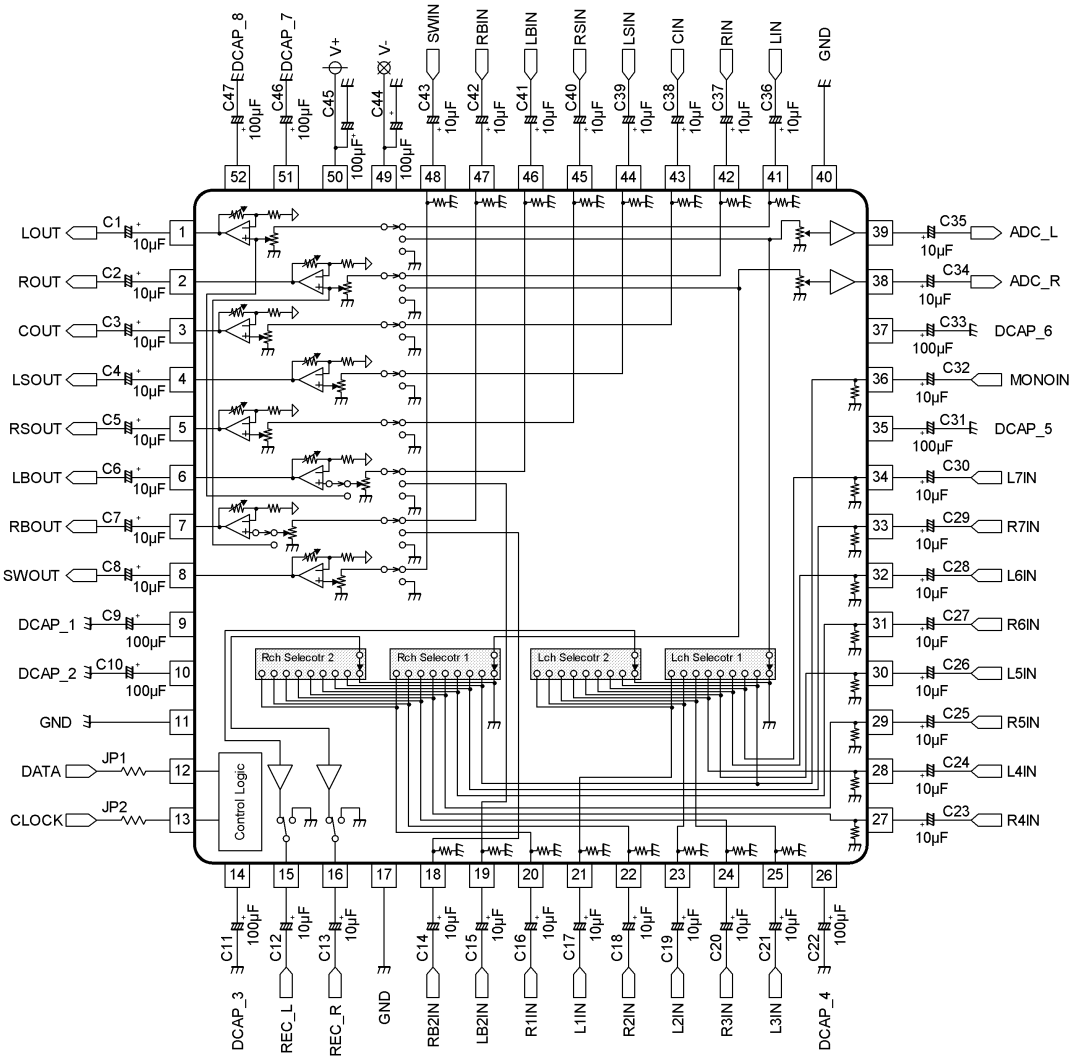
NOTES
1. THE AD8195 LFCSP HAS AN EXPOSED PAD ON THE UNDERSIDE OF THE PACKAGE THAT AIDS IN HEAT DISSIPATION. THE PAD MUST BE ELECTRICALLY CONNECTED TO THE AVEE SUPPLY PLANE IN ORDER TO MEET THERMAL SPECIFICATIONS.

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.

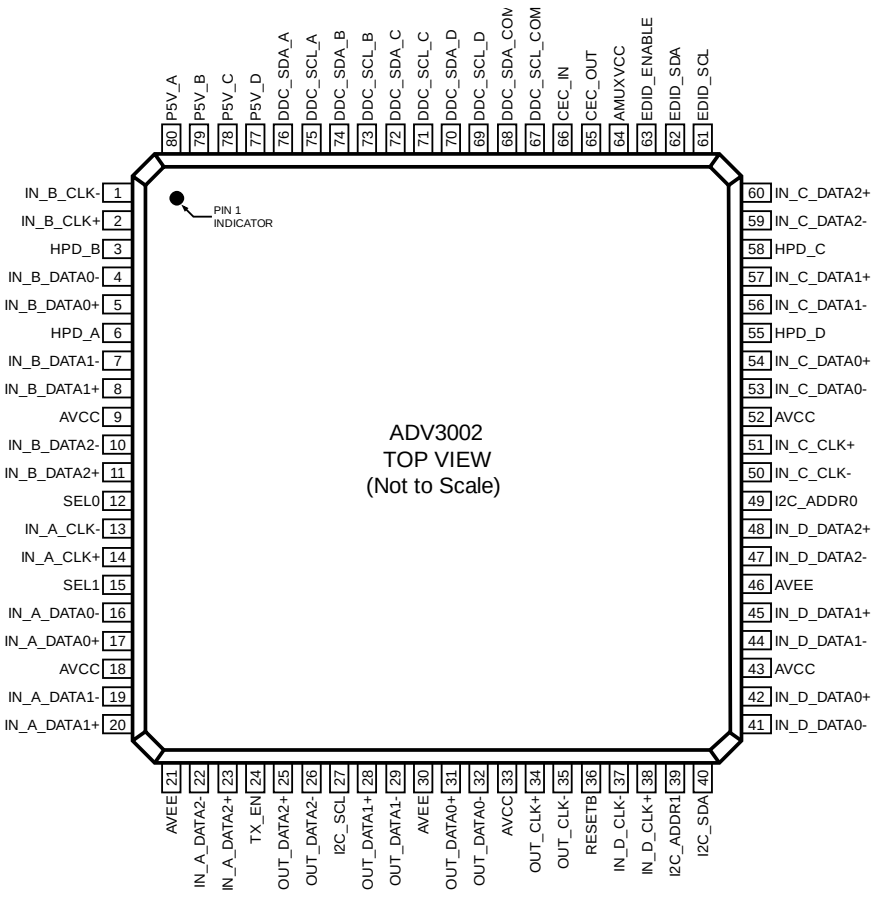
NJU72340A (DIGITAL :IC891)



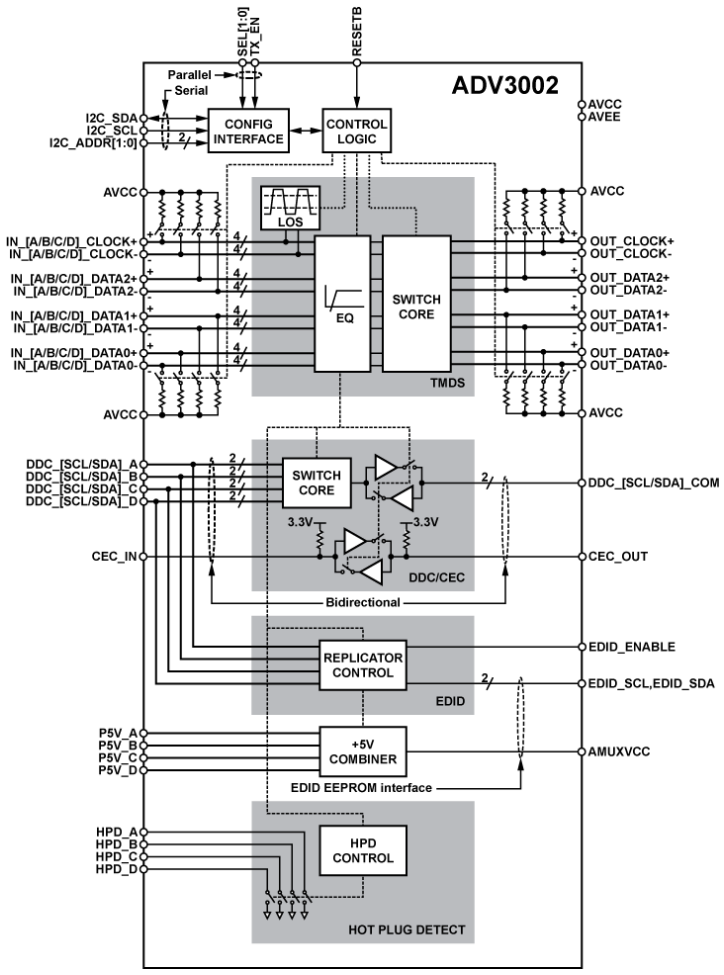
NJU72340A Terminal Functions

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

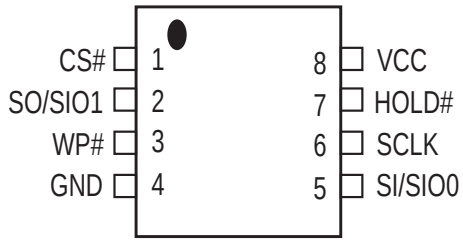
ADV3002BSTZ (DIGITAL : IC711)



ADV3002BSTZ Block diagram



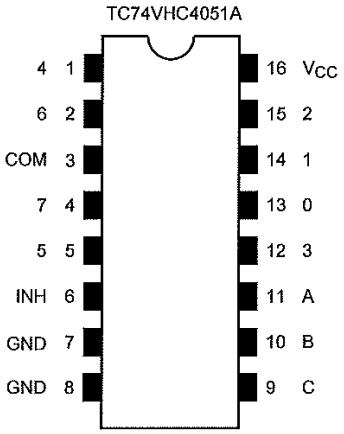
DIGITAL : IC722
MX25L3206EM2I-12G (except : E2)
MX25L6406EM2I-12G (ONLY E2)



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

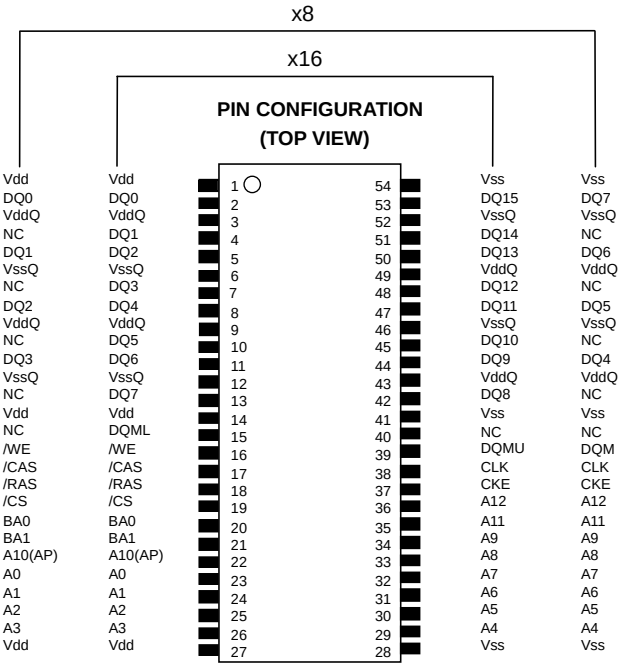
74VHC4051A (DIGITAL : IC724)



Control Inputs				"ON" Channel
Inhibit	C	B	A	TC74VHC4051A
L	L	L	L	0
L	L	L	H	1
L	L	H	L	2
L	L	H	H	3
L	H	L	L	4
L	H	L	H	5
L	H	H	L	6
L	H	H	H	7
H	X	X	X	None

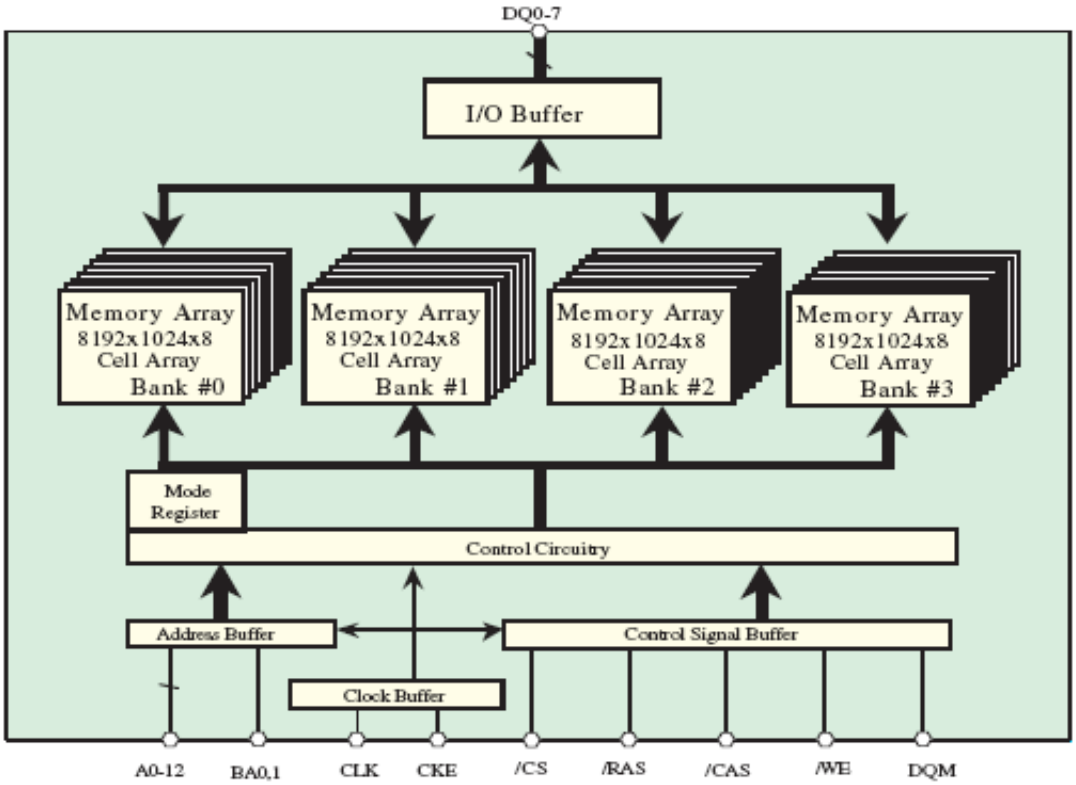
X: Don't care,

A3V56S30FTP (DIGITAL : IC833,834)



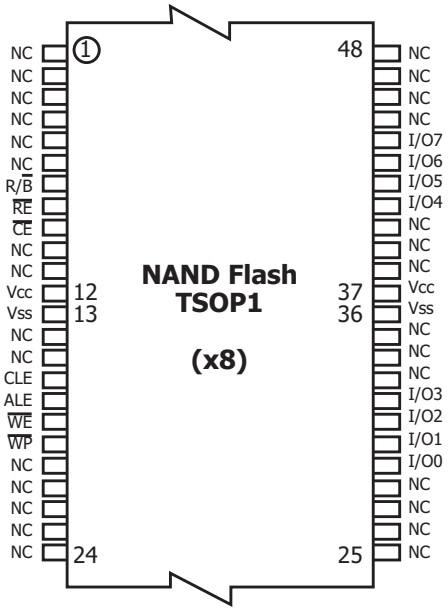
CLK	: Master Clock	DQM	: Output Disable / Write Mask (A3V56S30FTP)
CKE	: Clock Enable	DQMU,L	: Output Disable / Write Mask (A3V56S40FTP)
/CS	: Chip Select	A0-12	: Address Input
/RAS	: Row Address Strobe	BA0,1	: Bank Address
/CAS	: Column Address Strobe	Vdd	: Power Supply
/WE	: Write Enable	VddQ	: Power Supply for Output
DQ0-7	: Data I/O (A3V56S30FTP)	Vss	: Ground
DQ0-15	: Data I/O (A3V56S40FTP)	VssQ	: Ground for Output

A3V56S30FTP Pin Function



Note:This figure shows the A3V56S30FTP
The A3V56S40FTP configuration is 8192x512x16 of cell array and DQ0-15

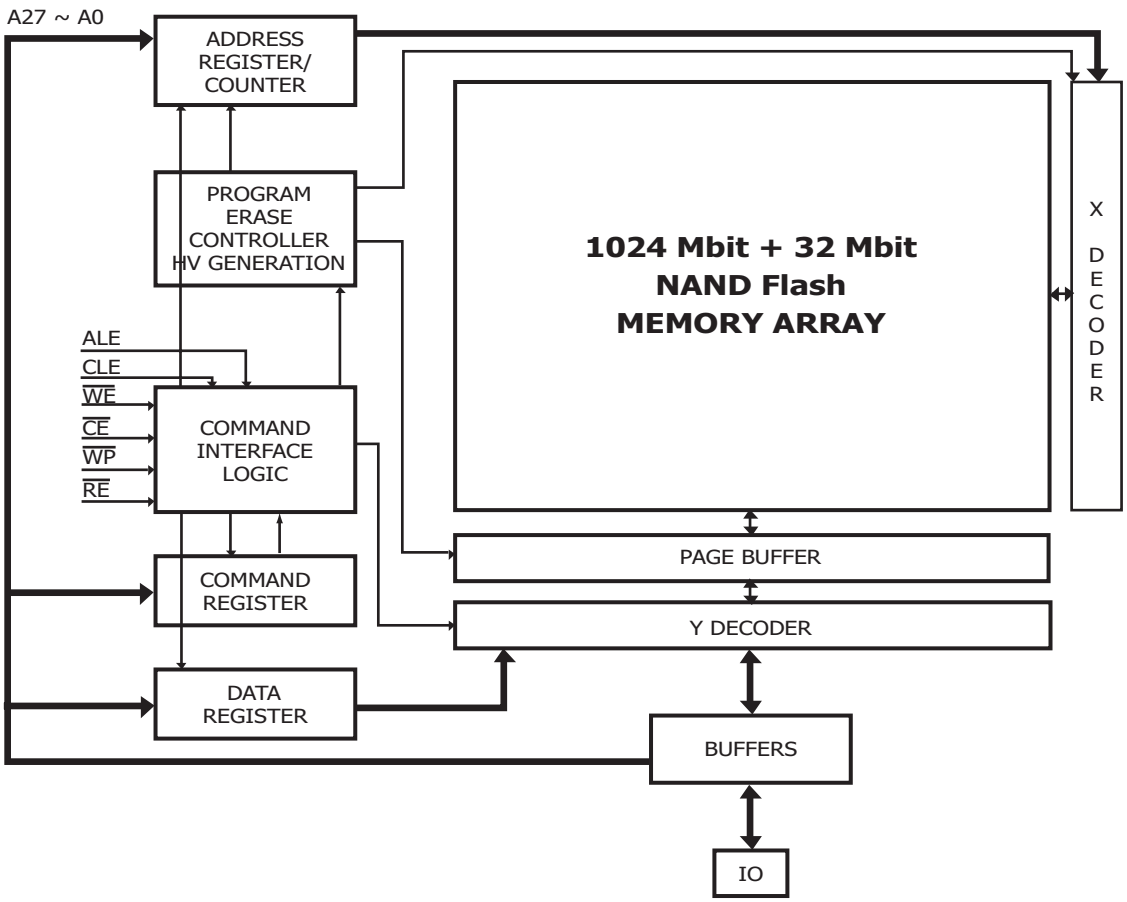
H27U1G8F2BTR-BC (DIGITAL : IC 832)



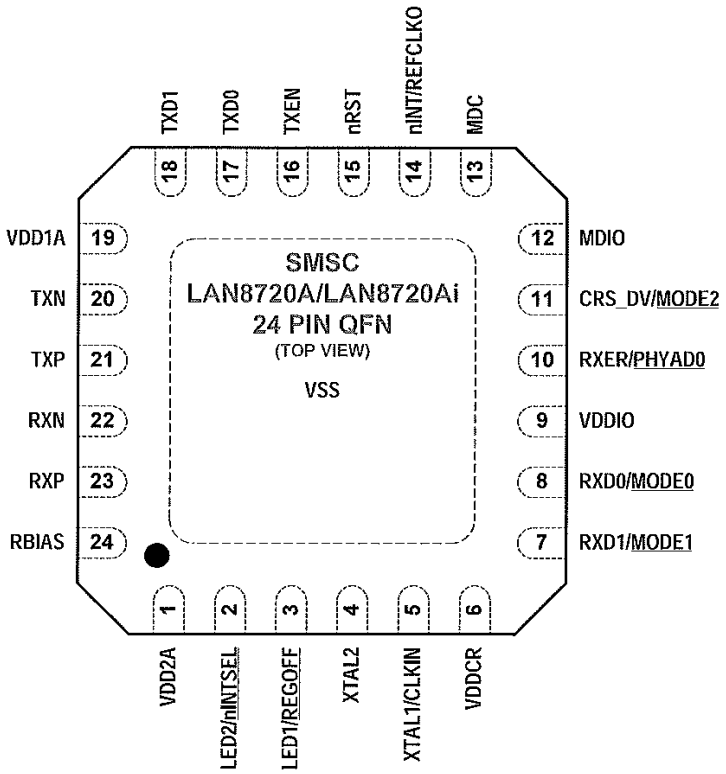
H27U1G8F2BTR-BC Pin Function

Pin Name	Description
IO0 ~ IO7	**DATA INPUTS/OUTPUTS** The IO pins allow to input command, address and data and to output data during read / program operations. The inputs are latched on the rising edge of Write Enable ($\overline{WE}$). The I/O buffer float to High-Z when the device is deselected or the outputs are disabled.
CLE	**COMMAND LATCH ENABLE** This input activates the latching of the IO inputs inside the Command Register on the Rising edge of Write Enable ($\overline{WE}$).
ALE	**ADDRESS LATCH ENABLE** This input activates the latching of the IO inputs inside the Address Register on the Rising edge of Write Enable ($\overline{WE}$).
$\overline{CE}$	**CHIP ENABLE** This input controls the selection of the device.
$\overline{WE}$	**WRITE ENABLE** This input acts as clock to latch Command, Address and Data. The IO inputs are latched on the rise edge of $\overline{WE}$.
$\overline{RE}$	**READ ENABLE** The $\overline{RE}$ input is the serial data-out control, and when active drives the data onto the I/O bus. Data is valid tREA after the falling edge of $\overline{RE}$ which also increments the internal column address counter by one.
$\overline{WP}$	**WRITE PROTECT** The $\overline{WP}$ pin, when Low, provides an Hardware protection against undesired modify (program / erase) operations.
R/$\overline{B}$	**READY BUSY** The Ready/Busy output is an Open Drain pin that signals the state of the memory.
Vcc	**SUPPLY VOLTAGE** The Vcc supplies the power for all the operations (Read, Write, Erase).
Vss	GROUND
NC	NO CONNECTION

H27U1G8F2BTR-BC Block Diagram

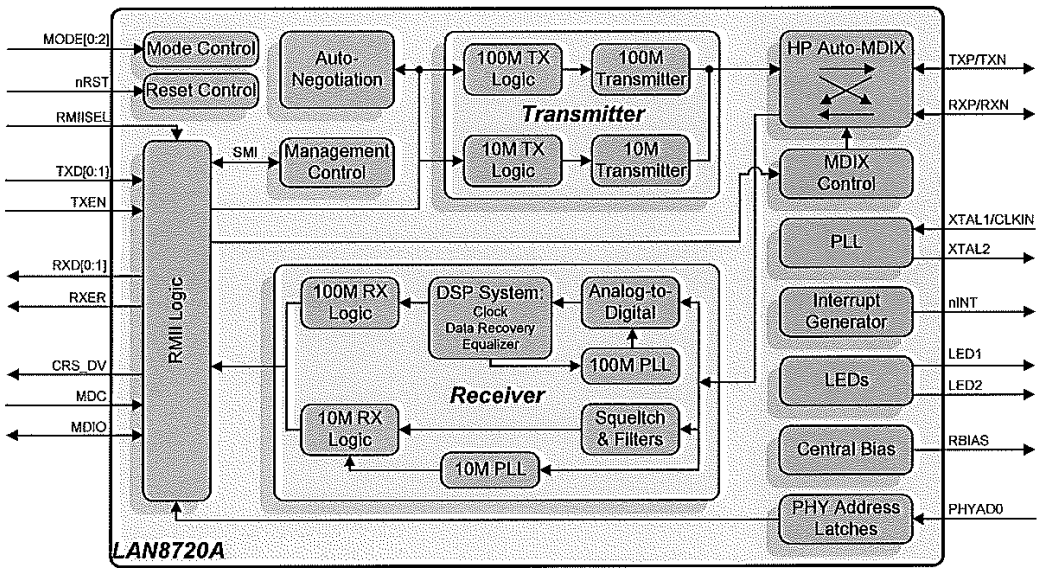


LAN8720A (DIGITAL : IC851)



LAN8720A Terminal Functions

PIN NUM	PIN NAME	PIN NUM	PIN NAME
1	VDD2A	13	MDC
2	LED2/nINTSEL	14	nINT/REFCLKO
3	LED1/REGOFF	15	nRST
4	XTAL2	16	TXEN
5	XTAL1/CLKIN	17	TXD0
6	VDDCR	18	TXD1
7	RXD1/MODE1	19	VDD1A
8	RXD0/MODE0	20	TXN
9	VDDIO	21	TXP
10	RXER/PHYAD0	22	RXN
11	CRS_DV/MODE2	23	RXP
12	MDIO	24	RBIAS


MODE[0:2]
nRST
RMIISEL
TXD[0:1]
TXEN
RXD[0:1]
RXER
CRS_DV
MDC
MDIO
Mode Control
Reset Control
Auto-Negotiation
SMI
Management Control
RMII Logic
100M TX Logic
100M Transmitter
Transmitter
10M TX Logic
10M Transmitter
100M RX Logic
DSP System
Clock Data Recovery Equalizer
Analog-to-Digital
100M PLL
Receiver
10M RX Logic
Squelch & Filters
10M PLL
HP Auto-MDIX
MDIX Control
PLL
Interrupt Generator
LEDs
Central Bias
PHY Address Latches
TXP/TXN
RXP/RXN
XTAL1/CLKIN
XTAL2
nINT
LED1
LED2
RBIAS
PHYAD0
LAN8720A

PCM5100 (DIGITAL : IC855(AVR-X1000 E3 only))

PCM510X (top view)

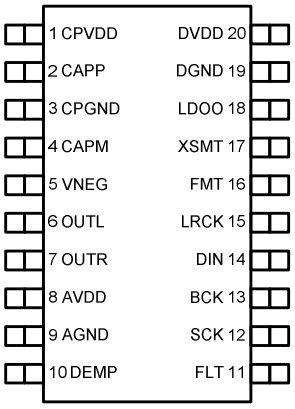
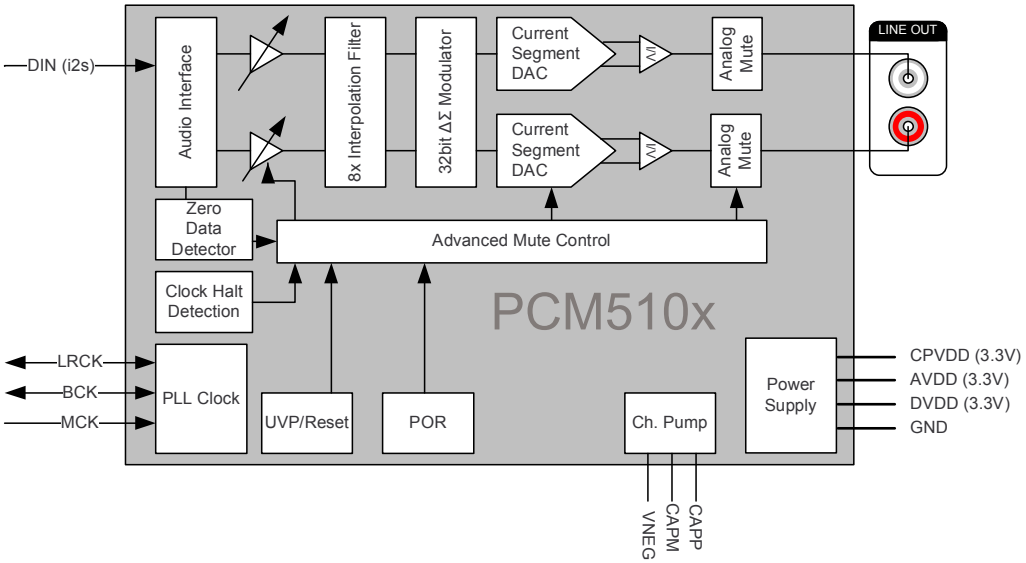


Table 2. TERMINAL FUNCTIONS, PCM510x

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

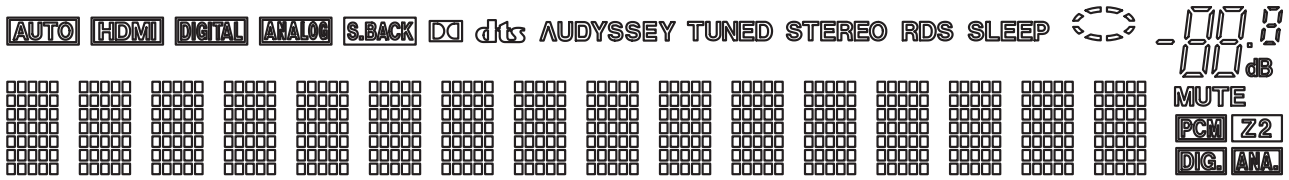
(1) Failsafe LVCMOS Schmitt trigger input

PCM5100 Block diagram



2. FL DISPLAY

FLD (018BT021GINK) (FRONT : FL101)



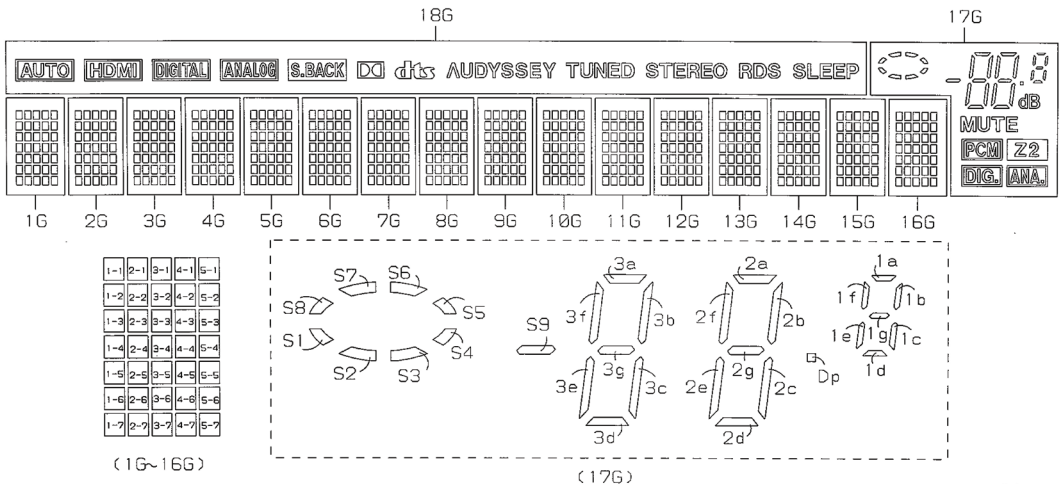
PIN CONNECTION

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	OSC	-RESET	TCS	-	CSP	CDA	TSSAB	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	NX	NX	NX	NX	NX	NX	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_E300 PCB ASS'Y

NOTE: The symbols in the column "Remarks" indicate the following destinations.
E300E3 : U.S.A. & Canada model
X1000E3 : U.S.A. & Canada model X1000E2 : Europe model X1000E1C : China model X1000E1 : Singapore model X1000K : Japan model X1010E1C : Chin

	REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
SEMICONDUCTORS GROUP							
	IC101	943239005300M	I.C,OPAMP	HVIBA4560RF	1		
	Q1001	943219006820S	TR KTC1027Y	CVTKTC1027YT	1		
	Q1002	943216500020S	T.R,RT1N141C(10K-10K)	CVTRT1N141C	1		
	Q1003	943214500020S	T.R,2SC3052	CVT2SC3052	1		
	Q1004	943214500020S	T.R,2SC3052	CVT2SC3052	1		
	Q1005	00MHT600141B1	TR KTA1271Y	HVTKTA1271YT	1		
	Q1006	943216500020S	T.R,RT1N141C(10K-10K)	CVTRT1N141C	1		
	Q1007	943215500020S	T.R,RT1P141C(10K-10K)	CVTRT1P141C	1		
	Q1008	943215500020S	T.R,RT1P141C(10K-10K)	CVTRT1P141C	1		
	Q1009	943216500020S	T.R,RT1N141C(10K-10K)	CVTRT1N141C	1		
	Q1011	943215500020S	T.R,RT1P141C(10K-10K)	CVTRT1P141C	1		
	Q1012	943216500020S	T.R,RT1N141C(10K-10K)	CVTRT1N141C	1		
	D1001	00D9630328409	DIODE,RECTIFIERS	CVD1N4007ST	1		
	D1002	00D9630328409	DIODE,RECTIFIERS	CVD1N4007ST	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	963209003510S	DIODE,RELIABLEESDPROTECTION	CVDCDS3C05HDMI:	1		
	D1009	963209003510S	DIODE,RELIABLEESDPROTECTION	CVDCDS3C05HDMI:	1		
	D1010	963209003510S	DIODE,RELIABLEESDPROTECTION	CVDCDS3C05HDMI:	1		
	D1011	963209003510S	DIODE,RELIABLEESDPROTECTION	CVDCDS3C05HDMI:	1		
	D1012	943176010090S	L.E.D,(GREEN/RED5PI)	CVDBLBJEGJ204L	1		
	D1019	943209001080S	DIODE,CHIP,SWITCHING	CVD1SS355T	1		
	D1020	943209001080S	DIODE,CHIP,SWITCHING	CVD1SS355T	1		
	D1401	943202010080S	DIODE,ZENER,1/2W,5.1V	CVDZJ5.1BT	1		
	D1402	943202010080S	DIODE,ZENER,1/2W,5.1V	CVDZJ5.1BT	1		
	D1403	943202010080S	DIODE,ZENER,1/2W,5.1V	CVDZJ5.1BT	1		
	D1404	943209001080S	DIODE,CHIP,SWITCHING	CVD1SS355T	1		
	D1405	943209001080S	DIODE,CHIP,SWITCHING	CVD1SS355T	1		
RESISTORS GROUP							
	R1001	nsp	RES,CARBON(1/5W,1.8ohm,J)	CRD20TJ1R8T	1		
	R1004	nsp	RES,CARBON(1/5W,1.8ohm,J)	CRD20TJ1R8T	1		
	R1005	00MNN05221610	RES,CHIP(1608/5%/220ohm)	CRJ10DJ221T	1		
	R1006	00MNN05221610	RES,CHIP(1608/5%/220ohm)	CRJ10DJ221T	1		
	R1007	00MGD05103160	RES,CARBON(1/5W,10Kohm,J)	CRD20TJ103T	1		
	R1008	00MNN05221610	RES,CHIP(1608/5%/220ohm)	CRJ10DJ221T	1		
	R1009	00MNN05221610	RES,CHIP(1608/5%/220ohm)	CRJ10DJ221T	1		
	R1010	00MNN05393610	RES,CHIP(1608/5%/39Kohm)	CRJ10DJ393T	1		
	R1011	nsp	RES,CHIP(1608/5%/10Kohm)	CRJ10DJ103T	1		
	R1012	00MNN05101610	RES,CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
	R1013	00MNN05101610	RES,CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
	R1014	00MNN05101610	RES,CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
	R1015	00MNN05101610	RES,CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
	R1016	00MNN05104610	RES,CHIP(1608/5%/100Kohm)	CRJ10DJ104T	1		
	R1017	00MNN05104610	RES,CHIP(1608/5%/100Kohm)	CRJ10DJ104T	1		
	R1018	00MNN05101610	RES,CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
	R1019	00MNN05101610	RES,CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
	R1020	00MNN05332610	RES,CHIP(1608/5%/3.3Kohm)	CRJ10DJ332T	1		
	R1021	00MNN05102610	RES,CHIP(1608/5%/1Kohm)	CRJ10DJ102T	1		
	R1022	00MNN05102610	RES,CHIP(1608/5%/1Kohm)	CRJ10DJ102T	1		
	R1023	00MNN05473610	RES,CHIP(1608/5%/47Kohm)	CRJ10DJ473T	1		
	R1025	00MNN05393610	RES,CHIP(1608/5%/39Kohm)	CRJ10DJ393T	1		
	R1026	00MNN05393610	RES,CHIP(1608/5%/39Kohm)	CRJ10DJ393T	1		
	R1027	nsp	RES,CHIP(1608/5%/4.7Kohm)	CRJ10DJ472T	1		
	R1030	00MNN05100610	RES,CHIP(1608/5%/10ohm)	CRJ10DJ100T	1		
	R1038	nsp	RES,CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
	R1039	nsp	RES,CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
	R1040	00MNN05222610	RES,CHIP(1608/5%/2.2Kohm)	CRJ10DJ222T	1		
	R1041	00MNN05122610	RES,CHIP(1608/5%/1.2Kohm)	CRJ10DJ122T	1		
	R1042	00MNN05122610	RES,CHIP(1608/5%/1.2Kohm)	CRJ10DJ122T	1		
	R1043	nsp	RES,CHIP(1608/5%/4.7Kohm)	CRJ10DJ472T	1		
	R1053	00MNN05100610	RES,CHIP(1608/5%/10ohm)	CRJ10DJ100T	1		
	R1057	00MNN05471610	RES,CHIP(1608/5%/470ohm)	CRJ10DJ471T	1		
	R1058	00MNN05102610	RES,CHIP(1608/5%/1Kohm)	CRJ10DJ102T	1		
	R1059	00MNN05102610	RES,CHIP(1608/5%/1Kohm)	CRJ10DJ102T	1		
	R1060	nsp	RES,CHIP(1608/5%/10Kohm)	CRJ10DJ103T	1		
	R1061	nsp	RES,CHIP(1608/5%/10Kohm)	CRJ10DJ103T	1		
	R1064	nsp	RES,CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
!	R1066	943124500040S	RES,M-OXIDEFILM(1W/4.7ohm)	CRG1SANJ4R7RT	1		
	R1067	00MNN05100610	RES,CHIP(1608/5%/10ohm)	CRJ10DJ100T	1		
	R1071	nsp	RES,CHIP(1608/5%/0ohm)	CRJ10DJ0R0T	1		
	R1072	00MNN05101610	RES,CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
	R1073	00MNN05101610	RES,CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
	R1074	00MNN05151610	RES,CHIP(1608/5%/150ohm)	CRJ10DJ151T	1		
	R1075	00MNN05181610	RES,CHIP(1608/5%/180ohm)	CRJ10DJ181T	1		
	R1076	00MNN05101610	RES,CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
	R1077	00MNN05151610	RES,CHIP(1608/5%/150ohm)	CRJ10DJ151T	1		
	R1078	00MNN05151610	RES,CHIP(1608/5%/150ohm)	CRJ10DJ151T	1		
	R1401	00MNN05101610	RES,CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
	R1402	00MNN05104610	RES,CHIP(1608/5%/100Kohm)	CRJ10DJ104T	1		
	R1403	00MNN05104610	RES,CHIP(1608/5%/100Kohm)	CRJ10DJ104T	1		
	R1404	00MNN05104610	RES,CHIP(1608/5%/100Kohm)	CRJ10DJ104T	1		
	R1405	00MNN05222610	RES,CHIP(1608/5%/2.2Kohm)	CRJ10DJ222T	1		
	R1406	00MNN05101610	RES,CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
	R1407	00MNN05821610	RES,CHIP(1608/5%/820ohm)	CRJ10DJ821T	1		
	R1408	nsp	RES,CHIP(1608/5%/18Kohm)	CRJ10DJ183T	1		
	R1409	00MNN05101610	RES,CHIP(1608/5%/100ohm)	CRJ10DJ101T	1		
	R1410	00MNN05473610	RES,CHIP(1608/5%/47Kohm)	CRJ10DJ473T	1		
	R1411	00MNN05222610	RES,CHIP(1608/5%/2.2Kohm)	CRJ10DJ222T	1		
CAPACITORS GROUP							
	C1002	nsp	CAP,MYLAR(100V/0.1uF/J)	HCQI1H104JZT	1		
	C1003	nsp	CAP,ELECT(50V/10uF)-S	CCEA1HKS100T	1		
	C1004	943134010530S	CAP,ELECT(50V/1uF)	CCEA1HH1R0T	1		
	C1005	00MOA22706320	CAP,ELECT(63V/220uF)	CCEA1JH221E	1		
	C1006	943134010530S	CAP,ELECT(50V/1uF)	CCEA1HH1R0T	1		
	C1007	nsp	CAP,METAL-FILM(100V/0.047uF)	CCME2A473JXT	1		
	C1009	nsp	CAP,CHIP(2012,50V/0.1uF)	CCUC1H104KC	1		
	C1010	00D9430175108	CAP,ELECT(50V/10uF)	CCEA1HH100T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C1011	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC	1		
	C1013	nsp	CAP,CHIP(1608,50V/100pF)		CCUS1H101JA	1		
	C1014	nsp	CAP,CHIP(1608,50V/100pF)		CCUS1H101JA	1		
	C1015	nsp	CAP,CHIP(1608,50V/330pF)		CCUS1H331JA	1		
	C1016	nsp	CAP,CHIP(1608,50V/1000pF)		CCUS1H102KC	1		
	C1017	nsp	CAP,METAL-FILM(100V/0.047uF)		CCME2A473JXT	1		
	C1019	00D9430175108	CAP,ELECT(50V/10uF)		CCEA1HH100T	1		
	C1020	nsp	CAP,CHIP(1608,50V/0.01uF)		CCUS1H103KC	1		
	C1038	943134010670S	CAP,ELECT(16V/47uF)-S		CCEA1CKS470T	1		
	C1039	nsp	CAP,CHIP(1608,50V/100pF)		CCUS1H101JA	1		
	C1050	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC	1		
	C1052	00D9430173003	CAP,ELECT(10V/220uF)-S		CCEA1AKS221T	1		
	C1053	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC	1		
	C1054	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC	1		
	C1055	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC	1		
	C1065	943134010530S	CAP,ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C1066	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC	1		
	C1067	943134010530S	CAP,ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C1068	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC	1		
	C1071	nsp	CAP,CHIP(1608,50V/220pF)		CCUS1H221JA	1		
	C1072	nsp	CAP,CHIP(1608,50V/220pF)		CCUS1H221JA	1		
	C1073	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC	1		
	C1076	nsp	CAP,CHIP(1608,50V/0.01uF)		CCUS1H103KC	1		
	C1077	nsp	CAP,CHIP(1608,50V/0.01uF)		CCUS1H103KC	1		
	C1081	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC	1		
	C1401	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC	1		
	C1402	nsp	CAP,ELECT(50V/1uF)-S		CCEA1HKS1R0T	1		
	C1403	nsp	CAP,CHIP(1608,50V/100pF)		CCUS1H101JA	1		
	C1405	nsp	CAP,ELECT(50V/10uF)-S		CCEA1HKS100T	1		
	C1406	nsp	CAP,CHIP(1608,50V/0.047uF)		CCUS1H473KC	1		
	C1407	nsp	CAP,ELECT(16V/100uF)-S		CCEA1CKS101T	1		
	C1408	nsp	CAP,CHIP(1608,50V/82pF)		CCUS1H820JA	1		
	C1410	943134010530S	CAP,ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C1411	943134010530S	CAP,ELECT(50V/1uF)		CCEA1HH1R0T	1		
	C1414	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC	1		
	C1415	nsp	CAP,CHIP(1608,50V/1000pF)		CCUS1H102KC	1		
	C1417	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC	1		
	C1424	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC	1		
	OTHERS PARTS GROUP							
	BD141	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z	1		
	BK101	nsp	BRACKET,FIP		CMD1A572	1		
	BK102	nsp	BRACKET,FIP		CMD1A572	1		
	BK103	nsp	BRACKET,PCB		CMD1A629	1		
	BN103	nsp	WIRE,ASS'Y		CWB1B005050HC	1		
	BN104	nsp	WIRE,ASS'Y		CWB1C205350LC00	1		
	BN12A	nsp	WIRE,ASS'Y		CWB1B005080CC	1		
	BN13A	nsp	WIRE,ASS'Y		CWB1B003080CC	1		
	CN101	nsp	WAFER,FFC1.25mm,ANGLE		CJP25GB286ZN	1		
	CN102	nsp	WAFER/ANGLE/2.5mm/07P		CJP07GB03ZY	1		
	CN103	nsp	LOCK-WAFER/ANGLE/2MMPITCH/5PIN		CJP05GJ288ZY	1		
	CN104	nsp	LOCK-WAFER/STRAIGHT/2MMPITCH/3PIN		CJP03GI288ZY	1		
!	F1001	943652000620S	FUSE(372Series/100mA/TR5)		CBA2D0100A3EYT	1		
	FL101	943172100150S	V.F.D(FUTABA,18-BT-02GINK)		CFL18BT021GINK	1		
	JK101	943643101590S	JACK,USBSTRAIGHT(BLACK1.5A)		CJJ9X010Z	1		
	JK104	90M-YT004500R	JACK,PHONES(6.35mm,SILVER)		CJJ2E026Z	1		
	JK603	943643100160S	JACK,MONO,3.5mm		CJJ1D001Z	1		
	L1001	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z	1		
	L1003	nsp	FERRITE,CHIPBEAD(4516/60R)		CLZ9Z014Z	1		
	L1004	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L1005	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	L6007	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z	1		
	L6008	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	LUG11	nsp	WIRE,ASS'Y		CWE8102100RV	1		
	LUG13	nsp	WIRE,ASS'Y		CWE8102180RV	1		
	RC101	943262100140S	SENSOR,REMOCON(37.9KHz)		CRVHM238RT12	1		
	SW101	90M-SP001400R	SW,TACT		CST1A023ZT	1		
	SW102	90M-SP001400R	SW,TACT		CST1A023ZT	1		
	SW103	90M-SP001400R	SW,TACT		CST1A023ZT	1		
	SW104	90M-SP001400R	SW,TACT		CST1A023ZT	1		
	SW105	90M-SP001400R	SW,TACT		CST1A023ZT	1		
	SW106	90M-SP001400R	SW,TACT		CST1A023ZT	1		
	SW107	90M-SP001400R	SW,TACT		CST1A023ZT	1		
	SW108	90M-SP001400R	SW,TACT		CST1A023ZT	1		
	SW109	90M-SP001400R	SW,TACT		CST1A023ZT	1		
	SW110	90M-SP001400R	SW,TACT		CST1A023ZT	1		
	SW111	90M-SP001400R	SW,TACT		CST1A023ZT	1		
	VR101	943671010330S	ENCODER(16MM,24PULSES),W/CLICK		CSR2A055Z	1		

FRONT_X1000 PCB ASS'Y

NOTE: The symbols in the column "Remarks" indicate the following destinations.
E300E3 : U.S.A. & Canada model
X1000E3 : U.S.A. & Canada model X1000E2 : Europe model X1000E1C : China model X1000E1 : Singapore model X1000K : Japan model X1010E1C : Chin

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
SEMICONDUCTORS GROUP							
D1001,1002	00D9630328409	DIODE , RECTIFIER, AXIAL		CVD1N4007ST	2		
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	963209003510S	DIODE , RELIABLE ESD PROTECTION		CVDCDS3C05HDMI:	4		
D1012	943176010090S	L.E.D,(GREEN/RED 5PI)		CVDBLBJEGJ204L	1		
D1019,1020	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	2		
D1401-1403	943202010080S	DIODE , ZENER ,1/2W, 5.1V		CVDZJ5.1BT	3		
D1404,1405	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	2		
Q1001	943219006820S	T.R		CVTKTC1027YT	1		
Q1002	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
Q1003,1004	943214500020S	T.R,2SC3052		CVT2SC3052	2		
Q1005	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
Q1006	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
Q1007,1008	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	2		
Q1009	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
Q1011	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	1		
Q1012	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
RESISTOR GROUP							
R1001	nsp	RES, CARBON(1/5W,1.8ohm,J)		CRD20TJ1R8T	1		
R1004	nsp	RES, CARBON(1/5W,1.8ohm,J)		CRD20TJ1R8T	1		
R1005,1006	nsp	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	2		
R1007	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
R1008,1009	nsp	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	2		
R1010	nsp	RES, CHIP(1608/5%/39Kohm)		CRJ10DJ393T	1		
R1011	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
R1012-1015	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	4		
R1016,1017	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
R1018,1019	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
R1020	nsp	RES, CHIP(1608/5%/3.3Kohm)		CRJ10DJ332T	1		
R1021,1022	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	2		
R1023	nsp	RES, CHIP(1608/5%/47Kohm)		CRJ10DJ473T	1		
R1025,1026	nsp	RES, CHIP(1608/5%/39Kohm)		CRJ10DJ393T	2		
R1027	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
R1030	nsp	RES, CARBON(1/5W,10ohm,J)		CRD20TJ100T	1		
R1040	nsp	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	1		
R1041,1042	nsp	RES, CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T	2		
R1043	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
R1053	nsp	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T	1		
R1057	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
R1058,1059	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	2		
R1060,1061	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	2		
R1066	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	1		
R1067	nsp	RES, CARBON(1/5W,10ohm,J)		CRD20TJ100T	1		
R1072,1073	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
R1074	nsp	RES, CHIP(1608/5%/150ohm)		CRJ10DJ151T	1		
R1075	nsp	RES, CHIP(1608/5%/180ohm)		CRJ10DJ181T	1		
R1076	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R1077,1078	nsp	RES, CHIP(1608/5%/150ohm)		CRJ10DJ151T	2		
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)	X1000BKE3	CRJ10DJ391T	2		
R1420	nsp	RES, CHIP(1608/5%/47Kohm)	X1000BKE3	CRJ10DJ473T	1		
CAPACIITORS GROUP							
C1002	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
C1003	nsp	CAP, ELECT(50V/10uF)-S		CCEA1HKS100T	1		
C1004	13405014440AS	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)		CCUC1H104KC	1		
C1010	nsp	CAP, ELECT(16V/10uF)-S		CCEA1CKS100T	1		
C1011	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C1013,1014	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA	2		
C1015	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA	1		
C1016	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	1		
C1017	nsp	CAP,METAL-FILM(100V/0.047uF)		CCME2A473JXT	1		
C1019	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
C1020	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC	1		
C1038	nsp	CAP, ELECT(16V/47uF)-S		CCEA1CKS470T	1		
C1039	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA	1		
C1050	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C1052	nsp	CAP, ELECT(10V/220uF)-S		CCEA1AKS221T	1		
C1053-1055	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	3		
C1065	nsp	CAP, ELECT(50V/1uF)		CCEA1HH1R0T	1		
C1066	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C1067	nsp	CAP, ELECT(50V/1uF)		CCEA1HH1R0T	1		
C1068	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C1071,1072	nsp	CAP, CHIP(1608, 50V/680pF)		CCUS1H681JA	2		
C1073	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C1076,1077	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC	2		
C1081	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C1401	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C1402	nsp	CAP, ELECT(50V/1uF)-S		CCEA1HKS1R0T	1		
C1403	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA	1		
C1405	nsp	CAP, ELECT(50V/10uF)-S		CCEA1HKS100T	1		
C1406	nsp	CAP, CHIP(1608, 50V/0.047uF)		CCUS1H473KC	1		
C1407	nsp	CAP, ELECT(16V/100uF)-S		CCEA1CKS101T	1		
C1408	nsp	CAP, CHIP(1608, 50V/82pF)		CCUS1H820JA	1		
C1410,1411	nsp	CAP, ELECT(50V/1uF)-S		CCEA1HKS1R0T	2		
C1414	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	C1415	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	1		
	C1417	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
	C1424	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
	C1425,1426	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC	2		
	OTHER PARTS GROUP							
	BD141	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	1		
	BK101,102	nsp	BRACKET , FIP		CMD1A572-V1	2	*	
	BK103	nsp	BRACKET , PCB		CMD1A629	1		
	BN101	nsp	WIREASS'YLocking(9P,2.0MM,80MM,#28)		CWB1A009080HC	1	*	
	BN104	nsp	WIRE ASS'Y (5P,2.0MM,350MM,Shield)_USB		CWB1C205350LC00	1		
	BN12A	nsp	WIRE ASS'Y B'D to B'D(CKM) (5P,2MM,80MM,#26)		CWB1B005080CC	1		
	BN12B1	nsp	WAFER,FFC 1.25mm,ANGLE		CJP27GB286ZN	1		
	BN13A	nsp	WIRE ASS'Y B'D to B'D(CKM) (3P,2MM,80MM,26#)		CWB1B003080CC	1		
	CN101	nsp	LOCK-WAFER/ANGLE/2MM PITCH/9PIN		CJP09GJ288ZY	1		
	CN102	nsp	WAFER/ANGLE/2.5mm/07P		CJP07GB03ZY	1		
	CN104	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/3PIN		CJP03GI288ZY	1		
!	F1001	943652000620S	FUSE(372 Series/100mA/TR5)		CBA2D0100A3EYT	1		
	FL101	943172100150S	V.F.D (FUTABA, 18-BT-02GINK)		CFL18BT021GINK	1		
	IC101	943232100380S	I.C , DUAL OPAMP(SOP-8P)		CVINJM8080G	1	*	
	JK101	943643101590S	JACK, USB STRAIGHT(BLACK 1.5A)		CJJ9X010Z	1		
	JK104	90M-YT004500R	JACK, PHONES(6.35mm,SILVER)		CJJ2E026Z	1		
	JK105	943643102400S	JACK, PHONE(MONO)		CJJ1D006Z	1	*	
	L1001	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	1		
	L1003	nsp	FERRITE CHIP BEAD(4516/60R)		CLZ9Z014Z	1		
	L1004,1005	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
	L1010	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	1		
	L1011	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
	LD101	963262010460S	L.E.D (Infrared light emitting diode)	X1000BKE3	CVDSIR341ST3FT0	1		
	LUG11	nsp	WIRE ASS'Y		CWE8102100RV	1		
	LUG13	nsp	WIRE ASS'Y		CWE8102180RV	1		
	RC101	943262100140S	SENSOR, REMOTE(37.9KHz)		CRVHM238RT12	1		
	SW101-111	00D9430004402	SW , TACT		CST1A012ZT	11		
	VR101,102	943671010330S	ENCODER(16MM, 24PULSES),W/CLICK		CSR2A055Z	2		

POWER PCB ASS'Y

NOTE: The symbols in the column "Remarks" indicate the following destinations.
E300E3 : U.S.A. & Canada model
X1000E3 : U.S.A. & Canada model X1000E2 : Europe model X1000E1C : China model X1000E1 : Singapore model X1000K : Japan model X1010E1C : Chin

	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		
	D6001-6008	00D9630328409	DIODE , RECTIFIER, AXIAL		CVD1N4007ST	8		
	D6009	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	1		
	D6012	00D9630328409	DIODE , RECTIFIER, AXIAL		CVD1N4007ST	1		
	D6013	943204500310S	DIODE , Schottky Battier (TO220FN)		CVDRBQ30T65A	1	*	
	IC301	943232100370S	I.C,REGULATOR(+12V,TO220)		CVIKIA7812BPI	1	*	
	IC302	00D9430183909	I.C , REGULATOR		HVIKIA7912PI	1		
	IC305	943231010390S	I.C,REGULATOR(+5V,T0220IS)		CVIKIA7805BPI	1		
!	IC601	231010091708S	I.C , OFF-LINE POWER SWITCH		CVITOP258MG	1		
!	IC602	963239010480S	I.C , PHOTOCOUPLER		CVIPC123Y22FZ0F	1		
	IC603	212050010508S	I.C,SHUNT REGULATOR(TO-92)		CVIKIA2431AP	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	E300,X1000E3	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	E300,X1000E3	CVDZJ7.5BT	1		
	ZD621	943202000940S	DIODE , ZENER ,1/2W, 16V	X1000E2,E1,E1C X1010E1C	CVDZJ16BT	1		
RESISTOR GROUP								
	R6004	nsp	RES, CARBON(1/5W,330Kohm,J)		CRD20TJ334T	1		
	R6006	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
	R6008,6009	00MGD05225160	RES, CARBON(1/5W,2.2Mohm,J)	E300,X1000E3	CRD20TJ225T	2		
	R6010	nsp	RES, CARBON(1/5W,1Mohm,J)	E300,X1000E3	CRD20TJ105T	1		
	R6011	nsp	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T	1		
	R6012	00MNN05274610	RES, CHIP(1608/5%/270Kohm)	E300,X1000E3	CRJ10DJ274T	1		
	R6012	00MNN05563610	RES, CHIP(1608/5%/56Kohm)	X1000E2,E1,E1C X1010E1C	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	00MGD05560160	RES, CARBON(1/5W,56ohm,J)		CRD20TJ560T	1		
	R6017	nsp	RES, CARBON(1/5W,3.3Kohm,J)		CRD20TJ332T	1		
	R6018	00MGD05562160	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	943121500030S	RES, CHIP(2012/5%/2.2Mohm)		CRJ18AJ225T	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	*	
!	C6001-6003	963132011940S	CAP, CERAMIC(X1/Y2,0.01uF,AC250V)		CCKDKY103MFM	3		
	C6004	943134501590S	CAP, ELECT(200V/100uF),105'C	E300,X1000E3	CCET200NHA101E	1		
	C6004	963134010200S	CAP , ELECT (400V/100UF, 18X40, NHA)	X1000E2,E1,E1C X1010E1C	CCET400NHA101ES	1		
	C6005	nsp	CAP, CHIP(1608, 50V/0.047uF)		CCUS1H473KC	1		
	C6006	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC	1		
	C6007	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
	C6008	00D9430175108	CAP, ELECT(50V/10uF),105'C		CCEA1HNXA100TS	1		
	C6009	nsp	CAP, CHIP(1608, 50V/0.1uF)	X1000E2,E1,E1C X1010E1C	CCUS1H104KC	1		
	C6011	963132010120S	CAP, CERAMIC(DC1KV/1000pF)		CCKDDEH102KCM	1		
	C6012	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
	C6013	00MOA47602520	CAP, ELECT(25V/47uF),105'C		CCEA1ENXA470TS	1		
	C6014	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
	C6015	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	1		
	C6018,6019	963134010220S	CAP, ELECT(6.3V/5600uF)		CCEA0JNXA562ES	2		
	C6020	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
!	C6023	963132011930S	CAP, CERAMIC(X1/Y1,2200P,AC250V)		CCKDKX222MEM	1		
	C6024	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
OTHER PARTS GROUP								
	BK301,302	nsp	BRACKET , PCB		CMD1A569-V1	2		
	BK303	nsp	BRACKET , PCB		CMD1A387-V1	1		
	BK601,602	nsp	BRACKET , PCB M3		CMD1A834	2	*	
	BK603	nsp	BRACKET , PCB		CMD1A629	1		
	BN301	CWB1C0070803D	WIREASS'YLocking(7P,2.5MM,80MM,#24)		COP12514B	1		
	BN601	nsp	WIRE ASS'Y Locking (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	943139500020S	CAP , POLYPROPYLENE FILM		HCQF2E104KZE	1		
!	CY601,602	963134011730S	CAP, CERAMIC(X1/Y1,470P,AC250V)		CCKDKX471KBM	2		
!	F3001,3002	00D2061096006	FUSE(218Series,250V/1.25A)		KBA2C1250TLEY	2		
!	F6001	963652010510S	FUSE(S506Series,250V,2A)	E300,X1000E3	CBA2C2000TLEC	1		
!	F6001	963652010500S	FUSE(S506Series,250V,1.6A)	X1000E2,E1,E1C X1010E1C	CBA2C1600TLEC	1		
!	F6002	90M-FS001090R	FUSE(218Series,250V/5A)	E300,X1000E3	KBA2C5000TLEY	1		
!	F6002	00D9430199109	FUSE(218Series,250V/2.5A)	X1000E2,E1,E1C X1010E1C	KBA2C2500TLEY	1		
!	LF602	963111010230S	LINE FILTER, 27uH	E300,X1000E3	CLZ9Z126Z	1		
!	LF602	943111100410S	LINE FILTER, 50uH	X1000E2,E1,E1C X1010E1C	CLZ9Z133Z	1		
!	RY601	963682010370S	RELAY,HL31-1AT-5H,DC5V,1C1P		CSL1C006ZE	1		
!	T6001	943102100350S	TRANS , SWITCHING		CLT9Z093ZE	1	*	

MAIN PCB ASS'Y

NOTE: The symbols in the column "Remarks" indicate the following destinations.
E300E3 : U.S.A. & Canada model
X1000E3 : U.S.A. & Canada model X1000E2 : Europe model X1000E1C : China model X1000E1 : Singapore model X1000K : Japan model X1010E1C : Chin

	REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
SEMICONDUCTORS GROUP							
	D5102	90M-HD302390R	DIODE , ZENER ,1/2W, 3.3V	CVDZJ3.3BT	1		
	D5103	00D9430182609	DIODE , SWITCHING	CVD1SS133MT	1		
	D5104	90M-HD302390R	DIODE , ZENER ,1/2W, 3.3V	CVDZJ3.3BT	1		
	D5105,5106	00D9430182609	DIODE , SWITCHING	CVD1SS133MT	2		
	D5202	90M-HD302390R	DIODE , ZENER ,1/2W, 3.3V	CVDZJ3.3BT	1		
	D5203	00D9430182609	DIODE , SWITCHING	CVD1SS133MT	1		
	D5204	90M-HD302390R	DIODE , ZENER ,1/2W, 3.3V	CVDZJ3.3BT	1		
	D5205,5206	00D9430182609	DIODE , SWITCHING	CVD1SS133MT	2		
	D5302	90M-HD302390R	DIODE , ZENER ,1/2W, 3.3V	CVDZJ3.3BT	1		
	D5303	00D9430182609	DIODE , SWITCHING	CVD1SS133MT	1		
	D5304	90M-HD302390R	DIODE , ZENER ,1/2W, 3.3V	CVDZJ3.3BT	1		
	D5305,5306	00D9430182609	DIODE , SWITCHING	CVD1SS133MT	2		
	D5402	90M-HD302390R	DIODE , ZENER ,1/2W, 3.3V	CVDZJ3.3BT	1		
	D5403	00D9430182609	DIODE , SWITCHING	CVD1SS133MT	1		
	D5404	90M-HD302390R	DIODE , ZENER ,1/2W, 3.3V	CVDZJ3.3BT	1		
	D5405,5406	00D9430182609	DIODE , SWITCHING	CVD1SS133MT	2		
	D5502	90M-HD302390R	DIODE , ZENER ,1/2W, 3.3V	CVDZJ3.3BT	1		
	D5503	00D9430182609	DIODE , SWITCHING	CVD1SS133MT	1		
	D5504	90M-HD302390R	DIODE , ZENER ,1/2W, 3.3V	CVDZJ3.3BT	1		
	D5505,5506	00D9430182609	DIODE , SWITCHING	CVD1SS133MT	2		
	D5601-5604	00D9430182609	DIODE , SWITCHING	CVD1SS133MT	4		
	D5701	943203002640S	DIODE , BRIDGE	HVDGBJ806	1		
	D5703	90M-HD302360R	DIODE , ZENER ,1/2W, 6.8V	CVDZJ6.8BT	1		
	D5704	00D9430182609	DIODE , SWITCHING	CVD1SS133MT	1		
	Q5101,5102	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA	2		
	Q5103	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSC1845FTA	1		
	Q5104	90M-HT800120R	T.R , BIAS	HVTKTC3114A	1		
	Q5105	90M-HT400490R	T.R , POWER	HVT2SD2390	1		
	Q5106	90M-HT200440R	T.R , POWER	HVT2SB1560	1		
	Q5107	943212500020S	High Voltage PNP Transistors(SOT-23)	CVTMMBT5401	1		
	Q5108	943214500040S	High Voltage NPN Transistors(SOT-23)	CVTMMBT5551	1		
	Q5201,5202	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA	2		
	Q5203	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSC1845FTA	1		
	Q5204	90M-HT800120R	T.R , BIAS	HVTKTC3114A	1		
	Q5205	90M-HT400490R	T.R , POWER	HVT2SD2390	1		
	Q5206	90M-HT200440R	T.R , POWER	HVT2SB1560	1		
	Q5207	943212500020S	High Voltage PNP Transistors(SOT-23)	CVTMMBT5401	1		
	Q5208	943214500040S	High Voltage NPN Transistors(SOT-23)	CVTMMBT5551	1		
	Q5301,5302	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA	2		
	Q5303	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSC1845FTA	1		
	Q5304	90M-HT800120R	T.R , BIAS	HVTKTC3114A	1		
	Q5305	90M-HT400490R	T.R , POWER	HVT2SD2390	1		
	Q5306	90M-HT200440R	T.R , POWER	HVT2SB1560	1		
	Q5307	943212500020S	High Voltage PNP Transistors(SOT-23)	CVTMMBT5401	1		
	Q5308	943214500040S	High Voltage NPN Transistors(SOT-23)	CVTMMBT5551	1		
	Q5401,5402	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA	2		
	Q5403	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSC1845FTA	1		
	Q5404	90M-HT800120R	T.R , BIAS	HVTKTC3114A	1		
	Q5405	90M-HT400490R	T.R , POWER	HVT2SD2390	1		
	Q5406	90M-HT200440R	T.R , POWER	HVT2SB1560	1		
	Q5407	943212500020S	High Voltage PNP Transistors(SOT-23)	CVTMMBT5401	1		
	Q5408	943214500040S	High Voltage NPN Transistors(SOT-23)	CVTMMBT5551	1		
	Q5501,5502	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA	2		
	Q5503	943213500150S	NPN, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSC1845FTA	1		
	Q5504	90M-HT800120R	T.R , BIAS	HVTKTC3114A	1		
	Q5505	90M-HT400490R	T.R , POWER	HVT2SD2390	1		
	Q5506	90M-HT200440R	T.R , POWER	HVT2SB1560	1		
	Q5507	943212500020S	High Voltage PNP Transistors(SOT-23)	CVTMMBT5401	1		
	Q5508	943214500040S	High Voltage NPN Transistors(SOT-23)	CVTMMBT5551	1		
	Q5601-5604	943213500160S	T.R,RT1N237C(2.2K-47K)	CVTRT1N237C	4		
	Q5701	943212500020S	High Voltage PNP Transistors(SOT-23)	CVTMMBT5401	1		
	Q5702	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA	1		
	Q5703	943214500020S	T.R,2SC3052	CVT2SC3052	1		
	Q5704	963212500030S	T.R, ISA1530AC1	CVTISA1530AC1	1		
	Q5705,5706	943214500020S	T.R,2SC3052	CVT2SC3052	2		
	Q5707	963212500030S	T.R, ISA1530AC1	CVTISA1530AC1	1		
	Q5708	943214500020S	T.R,2SC3052	CVT2SC3052	1		
RESISTOR GROUP							
	R5101	00MGD05104160	RES, CARBON(1/5W,100Kohm,J)	CRD20TJ104T	1		
	R5102	00MGD05681160	RES, CARBON(1/5W,680ohm,J)	CRD20TJ681T	1		
	R5103	nsp	RES, CARBON(1/5W,10Kohm,J)	CRD20TJ103T	1		
	R5104	nsp	RES, CARBON(1/5W,18Kohm,J)	CRD20TJ183T	1		
	R5105	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)	CRD20TJ122T	1		
	R5106	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)	CRG1SANJ122RT	1		
	R5107	nsp	RES, CARBON(1/5W,220ohm,J)	CRD20TJ221T	1		
	R5108	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)	CRD20TJ474T	1		
	R5109	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)	CRD20TJ333T	1		
	R5110	nsp	RES, M-OXIDE FILM(1W/47ohm)	CRG1SANJ470RT	1		
	R5113	00MGD05272160	RES, CARBON(1/5W,2.7Kohm,J)	CRD20TJ272T	1		
	R5114	00MGD05561160	RES, CARBON(1/5W,560ohm,J)	CRD20TJ561T	1		
	R5115,5116	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)	CRG1SANJ562RT	2		
	R5117,5118	nsp	RES, M-OXIDE FILM(1W/4.7ohm)	CRG1SANJ4R7RT	2		
	R5119-5122	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)	CRG2SANJR47RT	4		
	R5123	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)	CRD20TJ474T	1		
	R5124	00MGD05274160	RES, CARBON(1/5W,270Kohm,J)	CRD20TJ274T	1		
	R5125	nsp	RES, CARBON(1/5W,10Kohm,J)	CRD20TJ103T	1		
!	R5126	963252004160S	PTC THEMISTORS, CHIP(105'C)	CRTPRF18BC471QE	1		
	R5127	00MGD05562160	RES, CARBON(1/5W,5.6Kohm,J)	CRD20TJ562T	1		
	R5129	nsp	RES, CARBON(1/5W,15Kohm,J)	CRD20TJ153T	1		
	R5130,5131	nsp	RES, CARBON(1/5W,22Kohm,J)	CRD20TJ223T	2		
	R5132	nsp	RES, M-OXIDE FILM(1W/10ohm)	CRG1SANJ100RT	1		
	R5201	00MGD05104160	RES, CARBON(1/5W,100Kohm,J)	CRD20TJ104T	1		
	R5202	00MGD05681160	RES, CARBON(1/5W,680ohm,J)	CRD20TJ681T	1		
	R5203	nsp	RES, CARBON(1/5W,10Kohm,J)	CRD20TJ103T	1		
	R5204	nsp	RES, CARBON(1/5W,18Kohm,J)	CRD20TJ183T	1		
	R5205	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)	CRD20TJ122T	1		
	R5206	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)	CRG1SANJ122RT	1		
	R5207	nsp	RES, CARBON(1/5W,220ohm,J)	CRD20TJ221T	1		
	R5208	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)	CRD20TJ474T	1		

	REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
	R5209	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R5210	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R5213	00MGD05272160	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5214	00MGD05561160	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5215,5216	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5217,5218	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5219-5222	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5223	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5224	00MGD05274160	RES, CARBON(1/5W,270Kohm,J)		CRD20TJ274T	1		
	R5225	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5226	963252004160S	PTC THEMISTORS, CHIP(105'C)		CRTPRF18BC471QE	1		
	R5227	00MGD05562160	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5229	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5230,5231	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5232	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5301	00MGD05104160	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5302	00MGD05681160	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R5303	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5304	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R5305	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R5306	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R5307	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R5308	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5309	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R5310	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R5313	00MGD05272160	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5314	00MGD05561160	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5315,5316	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5317,5318	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5319-5322	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5323	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5324	00MGD05274160	RES, CARBON(1/5W,270Kohm,J)		CRD20TJ274T	1		
	R5325	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5326	963252004160S	PTC THEMISTORS, CHIP(105'C)		CRTPRF18BC471QE	1		
	R5327	00MGD05562160	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5329	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5330,5331	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5332	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5401	00MGD05104160	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5402	00MGD05681160	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R5403	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5404	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R5405	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R5406	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R5407	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R5408	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5409	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R5410	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R5413	00MGD05272160	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5414	00MGD05561160	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5415,5416	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5417,5418	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5419-5422	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5423	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5424	00MGD05274160	RES, CARBON(1/5W,270Kohm,J)		CRD20TJ274T	1		
	R5425	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5426	963252004160S	PTC THEMISTORS, CHIP(105'C)		CRTPRF18BC471QE	1		
	R5427	00MGD05562160	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-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5501	00MGD05104160	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5502	00MGD05681160	RES, CARBON(1/5W,680ohm,J)		CRD20TJ681T	1		
	R5503	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5504	nsp	RES, CARBON(1/5W,18Kohm,J)		CRD20TJ183T	1		
	R5505	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R5506	nsp	RES, M-OXIDE FILM(1W/1.2Kohm)		CRG1SANJ122RT	1		
	R5507	nsp	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T	1		
	R5508	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5509	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T	1		
	R5510	nsp	RES, M-OXIDE FILM(1W/47ohm)		CRG1SANJ470RT	1		
	R5513	00MGD05272160	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T	1		
	R5514	00MGD05561160	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T	1		
	R5515,5516	nsp	RES, M-OXIDE FILM(1W/5.6Kohm)		CRG1SANJ562RT	2		
	R5517,5518	nsp	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT	2		
	R5519-5522	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT	4		
	R5523	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T	1		
	R5524	00MGD05274160	RES, CARBON(1/5W,270Kohm,J)		CRD20TJ274T	1		
	R5525	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
!	R5526	963252004160S	PTC THEMISTORS, CHIP(105'C)		CRTPRF18BC471QE	1		
	R5527	00MGD05562160	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T	1		
	R5529	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5530,5531	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	2		
	R5532	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	1		
	R5701	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5702	nsp	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T	1		
	R5703	9431245002405	RES, M-OXIDE FILM(1W/22ohm)		CRG1SANJ220RT	1		
	R5704	nsp	RES, M-OXIDE FILM(1W/100ohm)		CRG1SANJ101RT	1		
	R5705	00MGD05104160	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5706	nsp	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T	1		
	R5707	00MGD05104160	RES, CARBON(1/5W,100Kohm,J)		CRD20TJ104T	1		
	R5708	nsp	RES, CARBON(1/5W,15Kohm,J)		CRD20TJ153T	1		
	R5711	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T	1		
	R5712,5713	nsp	RES, CARBON(1/5W,2.2Kohm,J)		CRD20TJ222T	2		
	R5715-5717	nsp	RES, M-OXIDE FILM(1W/2.2Kohm)		CRG1SANJ222RT	3		
	R5721-5725	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	5		
	R5726,5727	nsp	RES, M-OXIDE FILM(2W/470ohm)		CRG2SANJ471RT	2		
CAPACIITORS GROUP								
	C5101	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T	1		
	C5102	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
	C5103	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
	C5104	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
	C5105	943134501770S	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
	C5106	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
	C5107	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T	1		

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
C5108	13405014940AS	CAP , ELECT(63V/100uF)		CCEA1JH101T	1		
C5109	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
C5201	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T	1		
C5202	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
C5203	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
C5204	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
C5205	943134501770S	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
C5206	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	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		
C5301	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T	1		
C5302	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
C5303	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
C5304	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
C5305	943134501770S	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
C5306	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	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		
C5401	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T	1		
C5402	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
C5403	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
C5404	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
C5405	943134501770S	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
C5406	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	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		
C5501	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T	1		
C5502	nsp	CAP, MYLAR(100V/470pF/J)		HCQI2A471JZT	1		
C5503	nsp	CAP, CERAMIC(50V/82pF/J)		CCCT1H820JC	1		
C5504	nsp	CAP, MYLAR(50V/2200pF/J)		HCQI1H222JZT	1		
C5505	943134501770S	CAP, ELECT(50V/220uF)		CCEA1HH221T	1		
C5506	nsp	CAP, CERAMIC(50V/33pF/J)		CCCT1H330JC	1		
C5507	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T	1		
C5508	13405014940AS	CAP , ELECT(63V/100uF)		CCEA1JH101T	1		
C5509	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
C5605,5606	nsp	CAP, MYLAR(50V/0.018pF/J)		HCQI1H183JZT	2		
C5607,5608	nsp	CAP, MYLAR(50V/1500pF/J)		HCQI1H152JZT	2		
C5609-5611	nsp	CAP, MYLAR(50V/0.018pF/J)		HCQI1H183JZT	3		
C5612-5614	nsp	CAP, MYLAR(50V/1500pF/J)		HCQI1H152JZT	3		
C5701	nsp	CAP, MYLAR(50V/0.01uF/J)		HCQI1H103JZT	1		
C5702,5703	90M-OF100490R	CAP, METAL PE FILM(250V/0.1uF)		KCME2E104JP04T	2		
C5704, 5706	943134010460S	CAP , ELECT (30X35) WITHOUT PLATE ON THE TOP		CCET63VKL5682NK	2		
C5707	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
C5708	943134010480S	CAP, ELECT(100V/100uF)		CCEA2AH101E	1		
C5710	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
C5711	943134010660S	CAP, ELECT(6.3V/470uF)		CCEA0JH471T	1		
C5712	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	1		
C5713	943134010660S	CAP, ELECT(6.3V/470uF)		CCEA0JH471T	1		
C5716	nsp	CAP, ELECT(16V/47uF)		CCEA1CH470T	1		
C5717	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
C5718-5722	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	5		
C5723	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
OTHER PARTS GROUP							
BK501	nsp	BRACKET , PCB		CMD1A569-V1	1		
BN501	nsp	WIRE ASS'Y Locking (YH) (13P,2MM,150MM,#26)		CWB1B013150HC	1		
BN502	nsp	WIRE ASS'Y Locking (YH) (7P,2MM,150MM,#26)		CWB1B007150HC	1		
BN505	nsp	WIRE ASS'Y Locking (YH) (3P,2MM,250MM,#26,105)		CWB4B003250HC	1		
CN503	nsp	WAFER (3.96MM)		CJP03GA148ZW	1		
CN510	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
CN520	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
CN530	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
CN540	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
CN550	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY	1		
ET501	nsp	PLATE , EARTH(TRONIC ELECTRONICS)		CJT1A026	1	*	
JK505-509	943643102410S	2P, SCREW SPK(R/B)	E300	CJJ5N024Z	5	*	
JK505-509	943643102420S	2P, SCREW SPK(R/B)	X1000	CJJ5N023Z	5	*	
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		
RY560	943682000810S	RELAY,BC3-12H,DC12V,2C2P		CSL4A016ZU	1		
RY562-564	943682100270S	RELAY,981-2A-12DS,DC12V,2C1P		CSL3A022ZU	3		
VR510	963161012400S	RES , SEMI FIXED (1K, B CURVE)		CVN1RA102B03T	1		
VR520	963161012400S	RES , SEMI FIXED (1K, B CURVE)		CVN1RA102B03T	1		
VR530	963161012400S	RES , SEMI FIXED (1K, B CURVE)		CVN1RA102B03T	1		
VR540	963161012400S	RES , SEMI FIXED (1K, B CURVE)		CVN1RA102B03T	1		
VR550	963161012400S	RES , SEMI FIXED (1K, B CURVE)		CVN1RA102B03T	1		

DIGITAL PCB ASS'Y

NOTE: The symbols in the column "Remarks" indicate the following destinations.
E300E3 : U.S.A. & Canada model
X1000E3 : U.S.A. & Canada model X1000E2 : Europe model X1000E1C : China model X1000E1 : Singapore model X1000K : Japan model X1010E1C : Chin

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
SEMICONDUCTORS GROUP							
D7101	00D2760718902	DIODE, SCHOTTKY, 30V		CVDRB521S-30	1		
D7104	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
D7114	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
D7124	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
D7134	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
D7231	00D2760718902	DIODE, SCHOTTKY, 30V		CVDRB521S-30	1		
D7232	963209003510S	DIODE , RELIABLE ESD PROTECTION		CVDCDS3C05HDMI:	1		
D7501	2013100015O3S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	1		
D7502-7504	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	3		
D7601	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	1		
D7602	2013100015O3S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	1		
D7603	943209001080S	DIODE , CHIP , SWITCHING	X1000E3	CVD1SS355T	1		
D7605,7606	00D2760718902	DIODE, SCHOTTKY, 30V		CVDRB521S-30	2		
D7802-7805	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	4		
D8905,8906	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	2		
D8907	943202500720S	DIODE , ZENER(3.6V/0.5W, SOD-123)		CVDMM1Z3V6H	1	*	
D8908	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	1		
D8909,8910	00D9430196306	DIODE , ZENER ,1/2W, 7.5V		CVDZJ7.5BT	2		
D9001,9002	943202500730S	DIODE , ZENER(5.1V/0.5W, SOD-123)		CVDMM1Z5V1H	2	*	
IC711	236810057606S	I.C , HDMI MUX		CVIADV3002BSTZ	1		
IC721	943236012460S	I.C , HDMI Transceiver (LQFP-144P)		CVIADV7623BSTZ	1		
IC722	943248101720S	I.C , OSD Serial Flash (AVR-E300, X1000E3)	E300,X1000E3	CVIANAM1763AV	1	*	
IC722	943248101730S	I.C,OSDSerialFlash(AVRX1000E2)	X1000E2	CVIANAM1764AV	1	*	
IC722	943248101750S	I.C,OSDSerialFlash(AVRX1000E1C, X1010E1C)	X1000E1C, X1010E1C	CVIANAM1766AV	1	*	
IC722	nsp	I.C,SERIALFLASH(64M)	X1000E2	CVIMX25L6406EM2I	1		
IC722	nsp	I.C,SERIALFLASH(32M)	except X1000E2	CVIMX25L3206EM2I	1		
IC724	943239100760S	I.C , DE/MUX (8CH ANALOG,TSSOP-16P)		CVITC74VHC4051AF	1		
IC751-754	943239101070S	I.C , DC-DC CONVERTER (3A, QFN T&R-24P)		CVIEN5339QI	4	*	
IC755	943239100730S	I.C , SYSTEM RESET(4.8V , SOT-25A)		CVIPST8448NR	1		
IC756	943239010400S	I.C, REGULATOR(3.3V/TO-252)		CVINJM2845DL133	1		
IC761	943243101550S	I.C , MAIN MCU(AVR-E300, X1000E3)	E300,X1000E3	CVIANAM1757AV	1	*	
IC761	943243101560S	I.C,MAINMCU(AVRX1000E2)	X1000E2	CVIANAM1758AV	1	*	
IC761	943243101580S	I.C,MAINMCU(AVRX1000E1C, X1010E1C)	X1000E1C, X1010E1C	CVIANAM1760AV	1	*	
IC762	943239100720S	I.C , EEPROM(256KBIT,SOP-8P)		CVIR1EX24256BSAS	1		
IC771	963239002150S	I.C , OCTAL BUFFER/DRIVER		CVISN74LVC244APW	1		
IC781	00D2623077900	I.C, HEX INVERTER	E300,X1000E3	HVITC74VHCU04FT	1		
IC782	943236101350D	I.C , DIR/DIT(WITH ADC,LQFP-48P)		CVIPCM9211PTR	1		
IC783	943243101590S	I.C , PLD(AVRE300_X1000)		CVIANAM1762AV	1	*	
IC791	943245100310S	I.C , DSP SHARC(LQFP-176P/300M)		CVIADSP21487KSW	1		
IC792	943246012690S	I.C , 64M SDRAM		CVIW9864G6JH-6	1		
IC793	943248101770S	I.C, DSP Serial Flash(AVRE300_X1000)		CVIANAM1761AV	1	*	
IC812	943239101080S	I.C , DAC (8CH , HTSSOP-48)		CVIPCM1690DCAR	1	*	
IC813-815	943232100380S	I.C , DUAL OPAMP(SOP-8P)		CVINJM8080G	3	*	
IC831	23681011260AS	I.C , Network Media processor(LFBGA-320P)		CVIDM860A	1		
IC832	943248101780S	I.C , NEWWORK (AVRE300E3)		CVIANAM1767AV	1	*	
IC832	943248101790S	I.C,NEWWORK(AVRX1000E3)		CVIANAM1768AV	1	*	
IC832	943248101800S	I.C,NEWWORK(AVRX1000E2)		CVIANAM1769AV	1	*	
IC832	943248101810S	I.C,NEWWORK(AVRX1000K)		CVIANAM1777AV	1	*	
IC832	943248101820S	I.C,NEWWORK(AVRX1000E1C)		CVIANAM1778AV	1	*	
IC832	943248101830S	I.C,NEWWORK(AVRX1010E1C)		CVIANAM1781AV	1	*	
IC833,834	963246100740D	I.C , SDRAM(256M,8BIT,TSOP-54P)		CVIA3V56S30FTP-G	2		
IC851	943239100700S	I.C , Ethernet Transceiver(QFN-24P)		CVILAN8720ACPTR	1		
IC853	23671011050AS	I.C , IPOD AUTHENTICATION FROM D&M		CVI23671011050AS_	1		
IC854	943239101090S	I.C , High side switch (TSSOP-B8)		CVIBD82065FVJ-E2	1	*	
IC855	943239100690S	I.C , 2CH DAC(32BIT,384KHZ,TSSOP-20P)	X1000E3	CVIPCM5100PWR	1		
IC856	943239010400S	I.C, REGULATOR(3.3V/TO-252)	X1000E3	CVINJM2845DL133	1		
IC861	943239100830S	I.C , HDMI transmitter I/P Converter		CVISLI11131AFCAY	1	*	
IC871	963236101380P	I.C, HDMI BUFFER		CVIAD8195ACPZ	1		
IC891	943235100520S	I.C , INPUT WITH 8CH VOLUME(52P LQFP)		CVINJU72340AFH3	1		
IC901	90M-HC109700R	I.C , VIDEO S/W (JRC)		CVINJM2595MTE1	1		
Q7101	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	1		
Q7102	943216500040S	T.R,RT1N241C(22K-22K)		CVTRT1N241C	1		
Q7103	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	1		
Q7104	943216500040S	T.R,RT1N241C(22K-22K)		CVTRT1N241C	1		
Q7105	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	1		
Q7106	943216500040S	T.R,RT1N241C(22K-22K)		CVTRT1N241C	1		
Q7107	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	1		
Q7108	943216500040S	T.R,RT1N241C(22K-22K)		CVTRT1N241C	1		
Q7201	943215500020S	T.R,RT1P141C(10K-10K)	X1000E3	CVTRT1P141C	1		
Q7202	943216500040S	T.R,RT1N241C(22K-22K)	X1000E3	CVTRT1N241C	1		
Q7204-7206	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	3		
Q7501	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
Q7502	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
Q7503	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
Q7504	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
Q7505	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
Q7506	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
Q7507	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
Q7508	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111	1		
Q7509	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
Q7510	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
Q7511	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
Q7512	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
Q7513	943214500020S	T.R,2SC3052		CVT2SC3052	1		
Q7514	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
Q7515	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
Q7516	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1	1		
Q7517	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
Q7606,7607	943214500020S	T.R,2SC3052		CVT2SC3052	2		
Q7608	943214500030S	T.R , MUTE		CVTINC2001AC1	1		
Q7609	943214500020S	T.R,2SC3052	X1000E3	CVT2SC3052	1		
Q7610	943215500020S	T.R,RT1P141C(10K-10K)	X1000E3	CVTRT1P141C	1		
Q7701-7703	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	3		
Q7705	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	1		
Q7706	943214500020S	T.R,2SC3052		CVT2SC3052	1		
Q7709	943214500020S	T.R,2SC3052		CVT2SC3052	1		
Q7712	943214500020S	T.R,2SC3052		CVT2SC3052	1		
Q8701	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	1		

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
Q8702	943216500040S	T.R,RT1N241C(22K-22K)		CVTRT1N241C	1		
Q8901	943215500030S	T.R,RT1P441C(47K-47K)	X1000E3	CVTRT1P441C	1		
Q8902	943216500050S	T.R,RT1N441C(47K-47K)	X1000E3	CVTRT1N441C	1		
Q8903	943215500030S	T.R,RT1P441C(47K-47K)	X1000E3	CVTRT1P441C	1		
Q8905	943214500030S	T.R , MUTE	X1000E3	CVTINC2001AC1	1		
Q8907	943214500030S	T.R , MUTE	X1000E3	CVTINC2001AC1	1		
Q8908	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
Q8909	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	1		
Q8910	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C	1		
Q8913	943214500030S	T.R , MUTE		CVTINC2001AC1	1		
RESISTOR GROUP							
R7101	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
R7102	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
R7103	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R7106	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R7107	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7108	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
R7109	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
R7110	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R7113	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R7114	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7115	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
R7116	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
R7117	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R7120	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R7121	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7122	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
R7123	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
R7124	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R7127	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R7128-7131	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	4		
R7133,7134	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
R7135-7137	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
R7140,7141	nsp	RES, CHIP(1005/5%/2.2Kohm)		CRJ06IJ222T	2		
R7201	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7203	nsp	RES, CHIP(1005/5%/75ohm)		CRJ06IJ750T	1		
R7204	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7205	nsp	RES, CHIP(1005/5%/1Kohm)	X1000E3	CRJ06IJ102T	1		
R7206	nsp	RES, CHIP(1005/5%/22Kohm)	X1000E3	CRJ06IJ223T	1		
R7207	nsp	RES, CHIP(1005/5%/47Kohm)	X1000E3	CRJ06IJ473T	1		
R7210	nsp	RES, CHIP(1005/5%/47Kohm)	X1000E3	CRJ06IJ473T	1		
R7211	nsp	RES, CHIP(1005/5%/4.7Kohm)	X1000E3	CRJ06IJ472T	1		
R7212	nsp	RES, CHIP(1608/1%/1.6Kohm)		CRJ10DF1601T	1		
R7213	nsp	RES, CHIP(1608/1%/2Kohm)		CRJ10DF2001T	1		
R7214	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R7216	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R7218-7220	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
R7229	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7230,7231	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
R7232-7236	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	5		
R7237-7239	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	3		
R7241	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R7243	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7244	nsp	RES, CHIP(1608/5%/390Kohm)		CRJ10DJ394T	1		
R7245	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
R7246,7247	nsp	RES, CHIP(1005/1%/1Kohm)		CRJ06IF1001T	2		
R7250	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7252	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R7254,7255	nsp	RES, CHIP(1608/5%/51ohm)		CRJ10DJ510T	2		
R7261	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R7262-7265	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	4		
R7266	nsp	RES, CHIP(1608/5%/5.1ohm)		CRJ10DJ5R1T	1		
R7267,7268	nsp	RES, CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	2		
R7269	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7270-7273	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	4		
R7274	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
R7276	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7278	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7280	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
R7281	nsp	RES, CHIP(1005/5%/5.6Kohm)		CRJ06IJ562T	1		
R7282-7284	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	3		
R7286	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
R7288-7295	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	8		
R7296-7301	nsp	RES, CHIP(1005/5%/0ohm)	X1000E3	CRJ06IJ0R0T	6		
R7501	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R7502,7503	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
R7504	nsp	RES, CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1	*	
R7505	nsp	RES, CHIP(1608/1%/76.8Kohm)		CRJ10DF7682T	1	*	
R7506	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
R7511	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R7512,7513	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
R7514,7515	nsp	RES, CHIP(1608/1%/348Kohm)		CRJ10DF3483T	2	*	
R7516	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R7517,7518	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
R7519	nsp	RES, CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1	*	
R7520	nsp	RES, CHIP(1608/1%/412Kohm)		CRJ10DF4123T	1	*	
R7521	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
R7522	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7524,7525	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
R7526	nsp	RES, CHIP(1608/1%/348Kohm)		CRJ10DF3483T	1	*	
R7527	nsp	RES, CHIP(1608/1%/174Kohm)		CRJ10DF1743T	1	*	
R7528	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
R7529-7537	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	9		
R7538	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
R7539	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7540	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
R7541	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7542	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7543	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R7544	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
R7545	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
R7546	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7547	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
R7548	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7549	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
R7550	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7601-7604	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
R7605	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7609	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
R7610	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
R7611	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7613	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R7616-7619	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
R7620,7621	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	2		
R7622	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
R7625-7627	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
R7628,7629	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	2		
R7631-7634	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	4		
R7635,7636	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	2		
R7638,7639	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
R7641	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R7643-7645	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
R7650-7657	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	8		
R7660,7661	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
R7663	nsp	RES, CHIP(1608/5%/18Kohm)	E300	CRJ10DJ183T	1		
R7663	nsp	RES, CHIP(1608/5%/0ohm)	X1000E2,E1	CRJ10DJ0R0T	1		
R7663	nsp	RES, CHIP(1608/5%/10Kohm)	X1000K,E1C	CRJ10DJ103T	1		
R7663	nsp	RES, CHIP(1608/5%/3.3Kohm)	X1010E1C	CRJ10DJ332T	1		
R7664	nsp	RES, CHIP(1608/5%/3.3Kohm)	E300	CRJ10DJ332T	1		
R7664	nsp	RES, CHIP(1608/5%/0ohm)	X1000E3	CRJ10DJ0R0T	1		
R7664	nsp	RES, CHIP(1608/5%/10Kohm)	X1000E1C	CRJ10DJ103T	1		
R7664	nsp	RES, CHIP(1608/5%/18Kohm)	X1010E1C	CRJ10DJ183T	1		
R7665-7667	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	3		
R7668	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7669	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
R7672	nsp	RES, CHIP(1608/5%/1Kohm)	X1000E3	CRJ10DJ102T	1		
R7673	nsp	RES, CHIP(1608/5%/3.3Kohm)	X1000E3	CRJ10DJ332T	1		
R7674	nsp	RES, CHIP(1608/5%/2.2Kohm)	X1000E3	CRJ10DJ222T	1		
R7675	nsp	RES, CHIP(1608/5%/100Kohm)	X1000E3	CRJ10DJ104T	1		
R7677	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7678	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7679	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7681-7686	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	6		
R7687	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7688	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
R7689	nsp	RES, CHIP(1005/5%/2.2Mohm)		CRJ06IJ225T	1		
R7690	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7691	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R7692	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	1		
R7693	nsp	RES, CHIP(1005/5%/220Kohm)		CRJ06IJ224T	1		
R7694	nsp	RES, CHIP(1005/5%/27Kohm)		CRJ06IJ273T	1		
R7695	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
R7696	nsp	RES, CHIP(1005/5%/1.2Kohm)		CRJ06IJ122T	1		
R7698	nsp	RES, CHIP(1005/5%/33ohm)	X1000E3	CRJ06IJ330T	1		
R7699	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R7700	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7701-7703	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
R7704-7707	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	4		
R7708	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
R7710	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R7713	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7715	nsp	RES, CHIP(1005/5%/3.9Kohm)		CRJ06IJ392T	1		
R7717	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7718	nsp	RES, CHIP(1005/5%/27Kohm)		CRJ06IJ273T	1		
R7719	nsp	RES, CHIP(1005/5%/2.7Kohm)		CRJ06IJ272T	1		
R7720	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7721	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
R7722-7724	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
R7725	nsp	RES, CHIP(1005/5%/27Kohm)		CRJ06IJ273T	1		
R7726	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
R7727	nsp	RES, CHIP(1005/5%/2.7Kohm)		CRJ06IJ272T	1		
R7728	nsp	RES, CHIP(1005/5%/3.9Kohm)		CRJ06IJ392T	1		
R7729	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
R7730	nsp	RES, CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
R7731	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
R7735	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
R7736	nsp	RES, CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
R7737	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
R7738,7739	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
R7741	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
R7801	nsp	RES, CHIP(1005/5%/150ohm)	E300,X1000E3	CRJ06IJ151T	1		
R7802	nsp	RES, CHIP(1005/5%/150ohm)	E300,X1000E3	CRJ06IJ151T	1		
R7803	nsp	RES, CHIP(1005/5%/470ohm)	E300,X1000E3	CRJ06IJ471T	1		
R7806	nsp	RES, CHIP(1608/5%/330Kohm)	E300,X1000E3	CRJ10DJ334T	1		
R7807	nsp	RES, CHIP(1005/5%/47Kohm)	E300,X1000E3	CRJ06IJ473T	1		
R7808	nsp	RES, CHIP(1005/5%/33ohm)	E300,X1000E3	CRJ06IJ330T	1		
R7813	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R7814	nsp	RES, CHIP(1005/5%/33ohm)	X1000E2,E1,E1C X1010E1C	CRJ06IJ330T	1		
R7815	nsp	RES, CHIP(1005/5%/0ohm)	X1000E2,E1,E1C X1010E1C	CRJ06IJ0R0T	1		
R7817	nsp	RES, CHIP(1005/5%/0ohm)	E300,X1000E3	CRJ06IJ0R0T	1		
R7828,7829	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	2		
R7833,7834	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
R7835	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
R7836,7837	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	2		
R7839	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
R7840-7842	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
R7843	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
R7851	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
R7852,7853	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
R7854	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	1		
R7855	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R7856-7858	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	3		
R7859	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R7860	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
R7861	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R7862	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7864	nsp	RES, CHIP(1005/5%/820ohm)		CRJ06IJ821T	1		
R7865	nsp	RES, CHIP(1608/5%/680ohm)		CRJ10DJ681T	1		
R7866,7867	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
R7868,7869	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	2		
R7901	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
R7902-7904	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	3		
R7905	nsp	RES, CHIP(1005/5%/1Mohm)		CRJ06IJ105T	1		
R7906	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
R7907	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7909-7911	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
R7913	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R7914	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7915	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	1		
R7916	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7917,7918	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
R7919	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7920	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7922	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7923	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R7924	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7925-7929	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	5		
R7930	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
R7933	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R7935	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
R7936	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7938	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
R7939	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7940	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
R7941-7948	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	8		
R7949	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
R7952	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R7953,7954	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	2		
R7955,7956	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
R7961-7967	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	7		
R7969	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R8006	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
R8007	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
R8008,8009	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	2		
R8113,8114	nsp	RES, CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2	*	
R8115	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
R8116	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1	*	
R8117	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
R8118	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
R8119	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1	*	
R8120	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
R8121	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R8122,8123	nsp	RES, CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2	*	
R8124	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
R8125	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1	*	
R8126,8127	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	2		
R8128	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1	*	
R8129	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
R8130	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R8131,8132	nsp	RES, CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2	*	
R8133	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
R8134	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1	*	
R8135	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
R8137	nsp	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	1		
R8138	nsp	RES, CHIP(1608/0.5%/12Kohm)		CRJ06DD123TP	1	*	
R8139	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
R8140	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R8141,8142	nsp	RES, CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2	*	
R8143	nsp	RES, CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
R8144	nsp	RES, CHIP(1608/0.5%/39Kohm)		CRJ06DD393TP	1	*	
R8145,8146	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	2		
R8147	nsp	RES, CHIP(1608/0.5%/39Kohm)		CRJ06DD393TP	1	*	
R8148	nsp	RES, CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
R8149	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R8150,8151	nsp	RES, CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2	*	
R8152	nsp	RES, CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
R8153	nsp	RES, CHIP(1608/0.5%/18Kohm)		CRJ06DD183TP	1	*	
R8154	nsp	RES, CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
R8155	nsp	RES, CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
R8156	nsp	RES, CHIP(1608/0.5%/18Kohm)		CRJ06DD183TP	1	*	
R8157	nsp	RES, CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
R8158	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R8159,8160	nsp	RES, CHIP(1608/0.5%/15Kohm)		CRJ06DD153TP	2	*	
R8161	nsp	RES, CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
R8162	nsp	RES, CHIP(1608/0.5%/18Kohm)		CRJ06DD183TP	1	*	
R8163,8164	nsp	RES, CHIP(1608/5%/820ohm)		CRJ10DJ821T	2		
R8165	nsp	RES, CHIP(1608/0.5%/18Kohm)		CRJ06DD183TP	1	*	
R8166	nsp	RES, CHIP(1608/5%/120Kohm)		CRJ10DJ124T	1		
R8167	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R8169,8170	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
R8225	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R8230	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R8301	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R8302	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R8303	nsp	RES, CHIP(1005/5%/1.5Kohm)		CRJ06IJ152T	1		
R8304	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
R8305	nsp	RES, CHIP(1005/5%/12Kohm)		CRJ06IJ123T	1		
R8306-8308	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
R8310	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
R8311	nsp	RES, CHIP(1005/5%/1Mohm)		CRJ06IJ105T	1		
R8312	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R8313	nsp	RES, CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	1		
R8314	nsp	RES, CHIP(1005/5%/1.2Kohm)		CRJ06IJ122T	1		
R8317	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	1		
R8318	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R8319	nsp	RES, CHIP(1005/5%/2.7Kohm)		CRJ06IJ272T	1		
R8320	nsp	RES, CHIP(1005/5%/1.5Kohm)		CRJ06IJ152T	1		
R8322	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R8324	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R8327,8328	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
R8329	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	1		
R8330-8333	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	4		
R8334-8336	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	3		
R8338	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R8340	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
R8343	nsp	RES, CHIP(1005/5%/1.5Kohm)		CRJ06IJ152T	1		
R8344	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R8501,8502	nsp	RES, CHIP(1005/5%/3.3ohm)		CRJ06IJ3R3T	2		
R8504	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
R8505	nsp	RES, CHIP(1005/5%/10ohm)		CRJ06IJ100T	1		
R8506,8507	nsp	RES, CHIP(1608/1%/49.9ohm)		CRJ10DF49R9T	2	*	
R8510	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	1		
R8512-8514	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	3		
R8516	943124003370S	RES, CHIP(1608/1%/12Kohm)		CRJ10DF1202T	1		
R8520	90M-NN000600R	RES, CHIP(1608/1%/1.5Kohm)		CRJ10DF1501T	1		
R8521,8522	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	2		
R8536	nsp	RES, CHIP(1005/5%/10Kohm)	X1000E3	CRJ06IJ103T	1		
R8542,8543	nsp	RES, CHIP(1608/1%/49.9ohm)		CRJ10DF49R9T	2	*	
R8544	nsp	RES, CHIP(1608/1%/100ohm)		CRJ10DF1000T	1		
R8560	nsp	RES, CHIP(1005/5%/0ohm)	X1000E3	CRJ06IJ0R0T	1		
R8561,8562	nsp	RES, CHIP(1005/5%/470ohm)	X1000E3	CRJ06IJ471T	2		
R8563	nsp	RES, CHIP(1005/5%/10Kohm)	X1000E3	CRJ06IJ103T	1		
R8564	nsp	RES, CHIP(1608/5%/10Kohm)	X1000E3	CRJ10DJ103T	1		
R8567	nsp	RES, CHIP(1005/5%/10Kohm)	X1000E3	CRJ06IJ103T	1		
R8569,8570	nsp	RES, CHIP(1608/5%/0ohm)	X1000E3	CRJ10DJ0R0T	2		
R8603-8606	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	4		
R8608	nsp	RES, CHIP(1608/1%/470ohm)		CRJ10DF4700T	1		
R8609-8639	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	31		
R8640	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R8641-8646	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	6		
R8648-8657	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	10		
R8659	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R8660	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	1		
R8661-8696	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	36		
R8697	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R8701	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	1		
R8702	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	1		
R8703	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R8704	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
R8706	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	1		
R8710,8711	nsp	RES, CHIP(1005/5%/2Kohm)		CRJ06IJ202T	2		
R8712	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
R8714,8715	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
R8717,8718	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
R8720	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	1		
R8722	nsp	RES, CHIP(1005/5%/2Kohm)		CRJ06IJ202T	1		
R8723	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
R8900	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
R8901	nsp	RES, CHIP(1608/5%/270ohm)		CRJ10DJ271T	1		
R8903	nsp	RES, CHIP(1608/5%/27Kohm)		CRJ10DJ273T	1		
R8904	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
R8905	nsp	RES, CHIP(1608/5%/270ohm)		CRJ10DJ271T	1		
R8907	nsp	RES, CHIP(1608/5%/27Kohm)		CRJ10DJ273T	1		
R8908	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	1		
R8909	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R8910,8911	nsp	RES, CHIP(1005/5%/0ohm)	except X1000E3	CRJ06IJ0R0T	2		
R8912	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R8913	nsp	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	1		
R8917	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
R8918	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R8919	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
R8920	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R8921	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
R8922	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R8923	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
R8924	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R8925	nsp	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	1		
R8926	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
R8935,8936	nsp	RES, CHIP(1608/5%/0ohm)	X1000E3	CRJ10DJ0R0T	2		
R8937-8939	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	3		
R8940,8941	943125500060S	RES, M-OXIDE FILM(1W/150ohm)		CRG1SANJ151RT	2		
R8942-8944	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	3		
R8945	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
R8946-8951	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	6		
R8952-8956	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	5		
R8957	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
R8958,8959	nsp	RES, CHIP(1608/5%/100ohm)	X1000E3	CRJ10DJ101T	2		
R8960	nsp	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	1		
R8961	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
R8962	nsp	RES, CHIP(1608/5%/10Kohm)	X1000E3	CRJ10DJ103T	1		
R8963	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
R8964	nsp	RES, CHIP(1608/5%/1Kohm)	X1000E3	CRJ10DJ102T	1		
R8965	nsp	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	1		
R8966	nsp	RES, CHIP(1608/5%/470Kohm)	X1000E3	CRJ10DJ474T	1		
R8967	nsp	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	1		
R8968	nsp	RES, CHIP(1608/5%/470ohm)	X1000E3	CRJ10DJ471T	1		
R8969	nsp	RES, CHIP(1608/5%/10Kohm)	X1000E3	CRJ10DJ103T	1		
R8971	nsp	RES, CHIP(1608/5%/470ohm)	X1000E3	CRJ10DJ471T	1		
R8972,8973	nsp	RES, CHIP(1608/5%/100Kohm)	X1000E3	CRJ10DJ104T	2		
R8974	nsp	RES, CHIP(1608/5%/220ohm)	X1000E3	CRJ10DJ221T	1		
R8976	nsp	RES, CHIP(1608/5%/10Kohm)	X1000E3	CRJ10DJ103T	1		
R8977,8978	nsp	RES, CHIP(1608/5%/470ohm)	X1000E3	CRJ10DJ471T	2		
R8979,8980	nsp	RES, CHIP(1608/5%/100Kohm)	X1000E3	CRJ10DJ104T	2		
R8981	nsp	RES, CHIP(1608/5%/220ohm)	X1000E3	CRJ10DJ221T	1		
R8982	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
R8983	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
R8984	nsp	RES, CHIP(1005/5%/0ohm)	X1000E3	CRJ06IJ0R0T	1		
R8985	nsp	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	1		
R8986,8987	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	2		
R8988	nsp	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	1		
R8989,8990	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
R8991	nsp	RES, CHIP(1608/5%/820ohm)		CRJ10DJ821T	1		
R8992	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
R8994	nsp	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	1		
R8995	nsp	RES, CHIP(1005/5%/0ohm)	X1000E3	CRJ06IJ0R0T	1		
R8996	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
R9001,9002	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	2		
R9003	nsp	RES, CHIP(1608/5%/1.8Kohm)		CRJ10DJ182T	1		
R9004	nsp	RES, CHIP(1608/1%/82ohm)		CRJ10DF82R0T	1		
R9005	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	1		
R9006	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
R9007,9008	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT	2		
RN721,722	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	2		
RN781-783	nsp	RES, CHIP(1005/5%/33ohm*2)		CRJ062IJ330T	3		
RN784	nsp	RES, CHIP(1005/5%/4.7Kohm*4)		CRJ064IJ472T	1		
RN785,786	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	2		
RN787	nsp	RES, CHIP(1005/5%/4.7Kohm*4)		CRJ064IJ472T	1		
RN791-795	nsp	RES, CHIP(1005/5%/100ohm*4)		CRJ064IJ101T	5		
RN796-798	nsp	RES, CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T	3		
RN799,800	nsp	RES, CHIP(1005/5%/100ohm*4)		CRJ064IJ101T	2		
RN802-806	nsp	RES, CHIP(1005/5%/100ohm*4)		CRJ064IJ101T	5		
RN807	nsp	RES, CHIP(1005/5%/0ohm*4)		CRJ064IJ0R0T	1		
RN831-833	nsp	RES, CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T	3		
RN834-836	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	3		
RN837-839	nsp	RES, CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T	3		
RN840,841	nsp	RES, CHIP(1005/5%/47ohm*4)		CRJ064IJ470T	2		
RN842-850	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	9		
RN852	nsp	RES, CHIP(1005/5%/33ohm*4)	X1000E3	CRJ064IJ330T	1		
RN861-863	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T	3		
CAPACIITORS GROUP							
C7105,7106	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C7108	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7109	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	1		
C7111	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7112	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7113,7114	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C7204-7212	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	9		
C7213	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7214	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7215	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	1		
C7218-7221	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	4		
C7222	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7223	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7224	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7225	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7228-7230	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	3		
C7231	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7232,7233	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C7234,7235	nsp	CAP, CHIP(1608, 50V/15pF)		CCUS1H150JA	2		
C7236	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7237	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7238	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7240	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7241-7247	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	7		
C7248	13405014440AS	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
C7249	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7250	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7251	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7252	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7255,7256	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	2		
C7259	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	1		
C7260	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7269	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7296	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7298-7302	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	5		
C7501	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7502	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7503	nsp	CAP, CHIP(1608, 50V/3.3pF)		CCUS1H3R3JA	1		
C7504	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	1		
C7505	nsp	CAP, CHIP(2012, 6.3V/22uF, X7R)		CCUC0J226KC	1		
C7506	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7511	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7512	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7513	nsp	CAP, CHIP(1608, 50V/5pF)		CCUS1H050CA	1		
C7514	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	1		
C7515	nsp	CAP, CHIP(2012, 6.3V/22uF, X7R)		CCUC0J226KC	1		
C7516	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7521	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7522	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7523	nsp	CAP, CHIP(1608, 50V/5pF)		CCUS1H050CA	1		
C7524	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	1		
C7525	nsp	CAP, CHIP(2012, 6.3V/22uF, X7R)		CCUC0J226KC	1		
C7526	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7531	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7532	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7533	nsp	CAP, CHIP(1608, 50V/5pF)		CCUS1H050CA	1		
C7534	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	1		
C7535	nsp	CAP, CHIP(2012, 6.3V/22uF, X7R)		CCUC0J226KC	1		
C7536	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7547	nsp	CAP, CHIP(1005, 25V/0.022uF)		CCUI1E223KC	1		
C7548-7554	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	7		
C7555	00D9430103905	CAP, ELECT(16V/470uF)		CCEA1CH471T	1		
C7557	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7559	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7560	00D9430103905	CAP, ELECT(16V/470uF)		CCEA1CH471T	1		
C7563	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7564	nsp	CAP, CHIP(1005, 25V/0.015uF)		CCUI1E153KC	1		
C7565	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	1		
C7566	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7569	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	1		
C7570	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C7572-7575	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	4		
C7577-7592	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	16		
C7601,7602	nsp	CAP, CHIP(1608, 50V/27pF)		CCUS1H270JA	2		
C7603-7605	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	3		
C7606	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C7607-7614	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	8		
C7616	nsp	CAP, CHIP(1005, 50V/220pF)		CCUI1H221JA	1		
C7617	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7618-7621	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC	4		
C7622	nsp	CAP, CHIP(1608, 50V/1000pF)	X1000E3	CCUS1H102KC	1		
C7701	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7704-7706	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	3		
C7802	nsp	CAP, CHIP(1005, 25V/0.01uF)	E300,X1000E3	CCUI1E103KC	1		
C7803,7804	nsp	CAP, CHIP(1005, 16V/0.1uF)	E300,X1000E3	CCUI1C104KC	2		
C7805	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
C7806	nsp	CAP, CHIP(1005, 16V/0.1uF)	X1000E2,E1,E1C X1010E1C	CCUI1C104KC	1		
C7807	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7809	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
C7810,7811	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C7812	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
C7813	nsp	CAP, CHIP(1608, 50V/12pF)		CCUS1H120JA	1		
C7814	nsp	CAP, CHIP(1608, 50V/15pF)		CCUS1H150JA	1		
C7815	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7816	nsp	CAP, CHIP(2012, 50V/4700pF, MURATA GRM21)		CCUMUC1H472JAM	1		
C7817	nsp	CAP, CHIP(3216, 50V/0.068uF, MURATA GRM31)		CCUMUP1H683JAM	1		
C7818	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7819	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
C7820	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7821	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
C7822-7825	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	4		
C7826	nsp	CAP, CHIP(1608, 50V/4700pF)		CCUS1H472KC	1		
C7827	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
C7828	nsp	CAP, CHIP(1608, 50V/4700pF)		CCUS1H472KC	1		
C7829	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
C7901	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7902,7903	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	2		
C7904	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7905	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7906	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7907	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7908,7909	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C7910	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7911	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7912,7913	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	2		
C7914,7915	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C7916,7917	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	2		
C7918	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7919,7920	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	2		
C7921	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7922	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7923	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7924	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7925	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7926	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7927	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7928	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7929,7930	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C7931,7932	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	2		
C7933,7934	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C7935	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7936	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7937,7938	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	2		
C7939	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7940	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7941,7942	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C7943	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7944	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7945,7946	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	2		
C7947	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7948	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7949	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7950	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7951,7952	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C7953	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7954	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7955,7956	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	2		
C7957	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7958	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7959	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7960	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7961	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7962	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7963	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7964	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7965,7966	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C7967,7968	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	2		
C7969	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7970	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7971	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7972	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7973	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C7974	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7975,7976	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C7977	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C7978-7987	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	10		
C7988,7989	nsp	CAP, CHIP(1608, 50V/18pF)		CCUS1H180JA	2		
C7990	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C8001	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	1		
C8002	9431345017805	CAP,ELECT(KR1,47uF/63V,8X11.5)		CCEA1JKR1470T	1		
C8003	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	1		
C8004	13405014440AS	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
C8005	9431345017805	CAP,ELECT(KR1,47uF/63V,8X11.5)		CCEA1JKR1470T	1		
C8006	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	1		
C8110	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C8116	nsp	CAP, CHIP(1608, 50V/1800pF)		CCUS1H182KC	1		
C8117,8118	nsp	CAP, CHIP(1608, 50V/270pF)		CCUS1H271JA	2		
C8119	00MDK96182300	CAP, CHIP(1608, 50V/1800pF)		CCUS1H182KC	1		
C8120,8121	nsp	CAP, CHIP(1608, 50V/270pF)		CCUS1H271JA	2		
C8122	13405014440AS	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
C8125	13405014440AS	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
C8126	nsp	CAP, CHIP(1608, 50V/1800pF)		CCUS1H182KC	1		
C8127,8128	nsp	CAP, CHIP(1608, 50V/270pF)		CCUS1H271JA	2		
C8129	nsp	CAP, CHIP(1608, 50V/1200pF)		CCUS1H122KC	1		
C8130,8131	nsp	CAP, CHIP(1608, 50V/150pF)		CCUS1H151JA	2		
C8134	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	1		
C8135,8136	nsp	CAP, CHIP(1608, 50V/180pF)		CCUS1H181JA	2		
C8137	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	1		
C8138,8139	nsp	CAP, CHIP(1608, 50V/180pF)		CCUS1H181JA	2		
C8142-8146	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	5		
C8147,8148	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
C8149	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C8153-8155	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	3		
C8163	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C8165	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C8304	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C8305	nsp	CAP, CHIP(1608, 50V/33pF)		CCUS1H330JA	1		
C8306	nsp	CAP, CHIP(1608, 50V/27pF)		CCUS1H270JA	1		
C8307,8308	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C8309,8310	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	2		
C8311-8315	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	5		
C8316-8318	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	3		
C8320,8321	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	2		
C8322,8323	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C8324,8325	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	2		
C8326-8330	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	5		
C8331-8334	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	4		
C8335	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C8336	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C8337	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C8340-8343	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	4		
C8344-8354	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	11		
C8359	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	1		
C8362-8365	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	4		
C8366-8375	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	10		
C8380	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	1		
C8383	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	1		
C8500	nsp	CAP, CHIP(1005, 25V/0.022uF)		CCUI1E223KC	1		
C8501	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C8504	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C8507,8508	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	2		
C8509	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C8510	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	1		
C8511	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C8512	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	1		
C8513	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C8515	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	1		
C8518	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	1		
C8519	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C8521	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C8526	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	1		
C8527	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C8555,8556	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	2		
C8558	nsp	CAP, CHIP(1608, 50V/470pF)		CCUS1H471JA	1		
C8559	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	1		
C8561,8562	nsp	CAP, CHIP(1005, 16V/0.1uF)	X1000E3	CCUI1C104KC	2		
C8563	nsp	CAP, CHIP(1608, 6.3V/2.2uF)	X1000E3	CCUS0J225KC	1		
C8564	nsp	CAP, CHIP(1005, 16V/0.1uF)	X1000E3	CCUI1C104KC	1		
C8565	nsp	CAP, CHIP(1608, 6.3V/2.2uF)	X1000E3	CCUS0J225KC	1		
C8566	nsp	CAP, CHIP(1005, 16V/0.1uF)	X1000E3	CCUI1C104KC	1		
C8567	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)	X1000E3	CCUC0J106KC	1		
C8568,8569	nsp	CAP, CHIP(1608, 50V/2200pF)	X1000E3	CCUS1H222KC	2		
C8570	nsp	CAP, CHIP(1005, 16V/0.1uF)	X1000E3	CCUI1C104KC	1		
C8571	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)	X1000E3	CCUC0J106KC	1		
C8573	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)	X1000E3	CCUC0J106KC	1		
C8574,8575	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	2		
C8576	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C8577	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C8601-8605	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	5		
C8606	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC	1		
C8607-8631	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	25		
C8632-8634	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC	3		
C8672	nsp	CAP, CHIP(1005, 16V/0.1uF)	X1000E3	CCUI1C104KC	1		
C8701-8705	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	5		
C8706	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	1		
C8707-8715	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	9		
C8716-8720	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	5		
C8721	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	1		
C8722-8727	nsp	CAP, CHIP(2012, 6.3V/10uF, X7R)		CCUC0J106KC	6		
C8728	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	1		
C8730-8733	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	4		
C8904	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C8905	nsp	CAP, ELECT(10V/470uF)		CCEA1AH471T	1		
C8909,8910	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	2		
C8912,8913	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA	2		
C8914	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C8915,8916	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA	2		
C8917-8920	nsp	CAP, CHIP(1608, 50V/220pF)		CCUS1H221JA	4		
C8922,8923	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	2		
C8924,8925	13405014440AS	CAP, ELECT(50V/100uF)		CCEA1HH101T	2		
C8928,8929	13405014440AS	CAP, ELECT(50V/100uF)		CCEA1HH101T	2		
C8930-8934	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	5		
C8935	13405014440AS	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
C8936-8939	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	4		
C8940	13405014440AS	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
C8941	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C8945,8946	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	2		
C8952	13405014440AS	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
C8954	13405014440AS	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
C8955,8956	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	2		
C8957,8958	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	2		
C8959-8964	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T	6		
C8965-8978	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	4		
C8980	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	1		
C8981	nsp	CAP, ELECT(50V/0.1uF)	X1000E3	CCEA1HH0R1T	1		
C8982-8985	nsp	CAP, ELECT(50V/22uF)	X1000E3	CCEA1HH220T	4		
C8986,8987	nsp	CAP, CHIP(1608, 50V/330pF)	X1000E3	CCUS1H331JA	2		
C8988	nsp	CAP, ELECT(50V/0.1uF)		CCEA1HH0R1T	1		
C8989,8990	nsp	CAP, ELECT(50V/22uF)		CCEA1HH220T	2		
C8991	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA	1		
C8992	nsp	CAP, CHIP(1608, 50V/0.1uF)	X1000E3	CCUS1H104KC	1		
C8993,8994	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	2		
C8996,8997	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	2		
C8998,8999	13405014440AS	CAP, ELECT(50V/100uF)	X1000E3	CCEA1HH101T	2		
C9003	nsp	CAP, CHIP(1608, 50V/22pF)		CCUS1H220JA	1		
C9004,9005	nsp	CAP, ELECT(50V/10uF)		CCEA1HH100T	2		
C9006	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
C9007	13405014440AS	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
C9008	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	1		
C9009	13405014440AS	CAP, ELECT(50V/100uF)		CCEA1HH101T	1		
C9014,9015	nsp	CAP, CHIP(2012, 10V/4.7uF)	X1000E3	CCUC1A475ZF	2		
OTHER PARTS GROUP							
BK871	nsp	EARTH , HDMI		CMC1A422	1		
CN721	nsp	WAFER, FFC, SMD(23P-1mm, STRAIGHT)		CJP23GA193ZY	1		
CN722	nsp	WAFER, FFC, SMD(07P-1mm, STRAIGHT)		CJP07GA193ZY	1		
CN751	nsp	LOCK-WAFER/STRAIGHT/2.5MM PITCH/5PIN		CJP05GI289ZY	1		
CN761	nsp	WAFER,FFC1.25mm,STRAIGHT	E300	CJP25GA285ZN	1		
CN761	nsp	WAFER,FFC 1.25mm,STRAIGHT	X1000	CJP27GA285ZN	1		
CN762	nsp	WAFER, FFC, SMD(07P-1mm, STRAIGHT)		CJP07GA193ZY	1		
CN771	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/7PIN		CJP07GI288ZY	1		
CN772	nsp	WAFER, FFC(4P-1mm, ANGLE)		CJP04GB113ZY	1		
CN851	nsp	WAFER , SMD (2MM PITCH)		CJP05GA208ZY	1		
CN871	nsp	WAFER, FFC, SMD(23P-1mm, STRAIGHT)		CJP23GA193ZY	1		
CN892	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/13PIN		CJP13GI288ZY	1		
CN893	nsp	LOCK-WAFER/STRAIGHT/2.5MM PITCH/7PIN		CJP07GI289ZY	1		
JK701-704	943643100040S	JACK, HDMI(KSI-TWI, W/ FLANGE)		CJJ9H016Z	4		
JK721	943643100040S	JACK, HDMI(KSI-TWI, W/ FLANGE)	X1000E3	CJJ9H016Z	1		
JK722	943643100040S	JACK, HDMI(KSI-TWI, W/ FLANGE)		CJJ9H016Z	1		
JK761	90M-YT004860R	JACK, STEREO (BLK MOLD)	X1000E3	CJJ2D008Z	1		
JK782	943262100150S	MODULE , OPTICAL(RX 16MHz)		CJSJSR1124	1		
JK783	943262100150S	MODULE , OPTICAL(RX 16MHz)	X1000E2,E1,E1C X1010E1C	CJSJSR1124	1		
JK851	943643102430S	JACK , RJ-45 W/TRANSFORMER		CJJ9L029Z	1	*	
JK871	943643100040S	JACK, HDMI(KSI-TWI, W/ FLANGE)		CJJ9H016Z	1		
JK891	943643101570S	JACK, 4P(W/R,W/R),SEPA-GND		CJJ4P048U	1		
JK892	943643010150S	JACK, 2P(W/R),SEPA-GND, SILVER	X1000E3	CJJ4N034U	1		
JK893	943643102380S	JACK , RCA 2P (BK/OR) , SILVER	E300,X1000E3	CJJ4N105Z	1	*	
JK894	943643102390S	JACK , RCA 1P (BLACK) , SILVER	X1000E2,E1,E1C X1010E1C	CJJ4M078Z	1	*	
JK901	943643102370S	JACK , RCA 3P (Y/Y/Y) , SILVER		CJJ4S052Z	1	*	
L7101	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	1		
L7201-7206	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	6		
L7209-7211	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	3		
L7501	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	1		
L7503	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	1		
L7505	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	1		
L7507	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	1		
L7509	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	1		
L7511	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	1		
L7513	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	1		
L7515	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	1		
L7517-7521	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	5		
L7601-7617	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	17		
L7618	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	1		
L7619-7623	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	5		
L7624	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	1		
L7625-7627	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	3		
L7701-7707	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	7		
L8301-8303	nsp	FERRITE CHIP BEAD(2012/220R)		CLZ9R006Z	3		
L8503	nsp	COIL, CHOKE CHIP(2012/180R)		CLZ9Z127Z	1		
L8504,8505	nsp	COIL, CHOKE CHIP(2012/90R)		CLZ9Z128Z	2		
L8506-8509	nsp	FERRITE CHIP BEAD(2012/220R)		CLZ9R006Z	4		
L8511	nsp	FERRITE CHIP BEAD(2012/220R)		CLZ9R006Z	1		
L8601-8605	nsp	FERRITE CHIP BEAD(2012/220R)		CLZ9R006Z	5		
L8607	nsp	FERRITE CHIP BEAD(2012/220R)		CLZ9R006Z	1		
L8701,8702	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	2		
L8901	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z	1		
TU891	9431831002305	TUNER , FM(SCREW : F TYPE), AM , SI4730-D60	E300,X1000E3	CNVYST990-A9U0	1		
TU891	943183100330S	TUNER , RDS , FM(PAL TYPE) , SI4705-D60	X1000E2,E1	CNVYST990-R3E0	1	*	
TU891	943183100340S	TUNER , NO RDS , FM(PAL TYPE) , SI4704- D60	X1000E1C X1010E1C	CNVYST990-F8J0	1	*	
X7201	943141100600S	X-TAL, SMD 3.2X2.5, 28.636MHz, 12PF		COX28636I120ST	1		
X7601	943141100930S	X-TAL, HC-49/S SMD , 12.000MHz, 20PF		COX12000E200ST	1	*	
X7801	943141100900S	X-TAL, HC-49/S SMD , 24.576MHz, 12PF		COX24576E120ST	1	*	
X7901	943141100630S	X-TAL, SMD 3.2X2.5, 18.750MHz, 12PF		COX18750I120ST	1		
X8301	943141100940S	X-TAL, HC-49/S SMD , 24.000MHz, 20PF		COX24000E200ST	1	*	

EXPLODED_E300 PCB ASS'Y

NOTE: The symbols in the column "Remarks" indicate the following destinations.
E300E3 : U.S.A. & Canada model
X1000E3 : U.S.A. & Canada model X1000E2 : Europe model X1000E1C : China model X1000E1 : Singapore model X1000K : Japan model X1010E1C : Chin
BK : Black model SP : Premium Silver model

REF No.	Part No.	Part Name	Remarks	Q'ty	New	Ver
C1	nsp	FRONT PCB ASS`Y	COP12423L-1	1		
C1-1	-	POWER KNOB PCB ASS`Y	COP12423L-6	1		
C1-2	-	HEADPHONE PCB ASS`Y	COP12423L-4	1		
C1-3	-	USB PCB ASS'Y	COP12423L-5	1		
C1-4	-	MIC PCB ASS'Y	COP12423L-2	1		
C1-5	-	FRONT HDMI CABLE PCB ASS'Y	COP12423L-7	1		
C2	nsp	MAIN PCB ASS`Y	COP12515B-1	1	*	
C2-1	-	CABLE PCB ASS`Y	COP12515B-2	1		
C2-2	-	HDMI CABLE PCB ASS`Y	COP12515B-3	1		
C2-3	-	CARD CABLE FIX PCB ASS`Y	COP12515B-4	1		
C3	9U6391007700D	DIGITAL PCB ASS`Y	COP12517B-1	1	*	
C3-1	-	F-HDMI PCB ASS`Y	COP12517B-2	1		
C4	-	SMPS PCB ASS`Y	COP12514B-1	1	*	
C5	-	REGULATOR PCB ASS`Y	COP12514B-2	1	*	
C6	943101101320D	TRANS, POWER(58X)	CLT5U052ZU	1		
P1	943419100550D	PANEL, SUB	CGR1A534Y	1	*	
P2	943416100990D	WINDOW, FL	CGU1A462W	1	*	
P3	943412100710D	KNOB, VOLUME	CBN1A263	1		
P4	943446100590D	PLATE, VOLUM KNOB	CGX1A469	1		
P5	42141002400AD	BADGE, DENON	CGB1A254Z-V1	1		
P6	943402103470D	PANEL, FRONT	CGW3A520RHUB63	1	*	
P7	943423100310D	INDICATOR, POWER	CGL1A299	1		
P8	943411101750D	BUTTON, STANDBY	CBT1A1167	1		
P9	943411101770D	BUTTON, 10KEY	CBT2A1164	1		
P10	943407100020D	FOOT	CKL1A190	4		
P11	nsp	CUSHION, FOOT	CHG2A289	4		
P12	nsp	HOLDER, PCB	CHE170	2		
P13	943419100250D	SHEET, TOP	CGX1A492Z	2		
P14	45451000500AM	STOPPER, SHEET	CMH1A306Z	8		
P15	nsp	BUSHING	CHR1A028	1		
P16	nsp	RUBBER	CHG1A113	1		
M1	nsp	EARTH PLATE, HDMI	CMC1A422	1		
M2	nsp	EARTH PLATE, HDMI	CMC1A431	1		
M3	nsp	EARTH PLATE, USB	CMC1A430	1		
M4	nsp	EARTH PLATE, MIC	CMC1A429	1		
M5	nsp	CHASSIS, BOTTOM	CUA2A335	1		
M6	943403100570D	CABINET, TOP	CKC1A215K117	1		
M7	nsp	BRACKET, PCB	CMD1A387	1		
M8	nsp	HEAT SINK	CMY6A381	1		
M9	nsp	BRACKET, H/S PCB	CMD1A802	2		
M10	nsp	BRACKET, PCB	CMD1A830	2		
M11	nsp	SMPS BRACKET	CMD1A790	1		
M12	nsp	PANEL, REAR	CKF1A466Z	1	*	
S1	nsp	SCREW	CHD1A012ZR	15		
S2	nsp	SCREW	CTWS3+10GR	1		
S3	nsp	SCREW	CTB3+6JR	11		
S4	nsp	SCREW	CTB3+10JR	19		
S5	nsp	SCREW	CTBD3+8JFZR	18		
S6	nsp	SCREW	CTBD4+6FFZR	4		
S7	nsp	SCREW	CTBD3+6FFZR	12		
S8	nsp	SCREW	CTW3+8JR	11		
S9	nsp	SCREW	CTW3+12JR	2		
S10	nsp	SCREW	CHDR1A023R	4		
S11	nsp	SCREW	CTB3+8JR	2		
S12	nsp	SCREW	CTB3+8JFZR	6		
S13	nsp	SCREW	CTW3+6JR	2		
S14	nsp	SCREW	CTBD4+8JFZR	2		
S15	nsp	SCREW	CTB3+6FR	4		
S16	nsp	SCREW	CHD4A012R	3		
★	nsp	LABEL , POP	CQB1A1127Z	1	*	
★	943606501550S	CARDCABLE(1.25mm,25p,180mm,Btype,105)	CWC5C4A25B180B10	1		
★	943606501560S	CARD CABLE(1.00mm, 23p, 270mm, Btype,105)	CWC5F4A23A270B08	1		
★	nsp	ORNAMENT , REAR PANEL	CGX1A482Z	1	*	
★	nsp	TAPE , HEMELON	CHS1A032	2		
★	nsp	LABEL , HOT	CQB1A906Z	1		
★	nsp	LABEL , SERIAL NO	CQB1A995	1		
★	nsp	2P WIRE ASS'Y(100MM)	CWZPM5003TW91A	1		

EXPLODED_X1000/X1010 PCB ASS'Y

NOTE: The symbols in the column "Remarks" indicate the following destinations.
E300E3 : U.S.A. & Canada model
X1000E3 : U.S.A. & Canada model X1000E2 : Europe model X1000E1C : China model X1000E1 : Singapore model X1000K : Japan model X1010E1C : C
BK : Black model SP : Premium Silver model

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
C1	nsp	FRONT PCB ASS`Y		COP12516B-1	1	*	
C1-1	-	POWER KNOB PCB ASS`Y		COP12516B-6	1		
C1-2	-	HEADPHONE PCB ASS`Y		COP12516B-4	1		
C1-3	-	USB PCB ASS'Y		COP12516B-5	1		
C1-4	-	MIC PCB ASS'Y		COP12516B-2	1		
C1-5	-	FRONT HDMI CABLE PCB ASS'Y		COP12516B-7	1		
C2	nsp	MAIN PCB ASS`Y		COP12515C-1	1	*	
C2-1	-	CABLE PCB ASS`Y		COP12515C-2	1		
C2-2	-	HDMI CABLE PCB ASS`Y		COP12515C-3	1		
C2-3	-	CARD CABLE FIX PCB ASS`Y		COP12515C-4	1		
C3	9U6391007800D	DIGITAL PCB ASS`Y	X1000E3	COP12517C	1	*	
C3	9U6391007900D	DIGITAL PCB ASS`Y	X1000E2/E1	COP12517D	1	*	
C3	9U6391008000D	DIGITAL PCB ASS`Y	X1000E1C	COP12517G	1	*	
C3	9U6391008100D	DIGITAL PCB ASS`Y	X1010E1C	COP12517H	1	*	
C3	9U6391008200D	DIGITAL PCB ASS`Y	X1000K	COP12517F	1	*	
C3-1	-	F-HDMI PCB ASS`Y		COP12517C-2	1		
C4	-	SMPS PCB ASS`Y		COP12514C-1	1	*	
C5	-	REGULATOR PCB ASS`Y		COP12514C-2	1	*	
C6	943101101320D	TRANS, POWER(58X)	E3	CLT5U052ZU	1		
C6	943101101330D	TRANS, POWER(58X)	E2/E1	CLT5U052ZE	1		
C6	943101101350D	TRANS, POWER(58X)	K	CLT5U052ZJ	1		
C6	943101101340D	TRANS, POWER(58X)	E1C	CLT5U052ZH	1		
P1	943419100550D	PANEL, SUB		CGR1A534Y	1	*	
P2	943416101000D	WINDOW, FL	E3	CGU1A462V	1	*	
P2	943416101010D	WINDOW, FL	E2/E1,E1C.K	CGU1A462T	1	*	
P3	943412100710D	KNOB, VOLUME	BK	CBN1A263	1		
P3	943412100720D	KNOB, VOLUME	SP	CBN1A263C73	1		
P4	943446100590D	PLATE, VOLUME KNOB		CGX1A469	1		
P5	42141002400AD□	BADGE, DENON	BK	CGB1A254Z-V1	1		
P5	42141002401AD	BADGE, DENON	SP	CGB1A254Y-V1	1		
P6	943402103480D	PANEL, FRONT	E3	CGW1A535RHZB63	1	*	
P6	943402103490D	PANEL, FRONT	E2/E1	CGW1A535RHYB63	1	*	
P6	943402103500D	PANEL, FRONT	BKE1C	CGW1A535RHXB63	1	*	
P6	943402103510D	PANEL, FRONT	X1000SPE1C	CGW1A535RGZG45	1	*	
P6	943402103520D	PANEL, FRONT	K	CGW1A535RHWB63	1	*	
P6	943402103530D	PANEL, FRONT	X1010SPE1C	CGW1A535RGYG45	1	*	
P7	943423100310D	INDICATOR, POWER		CGL1A299	1		
P8	943411101750D	BUTTON, STANDBY	BK	CBT1A1167	1		
P8	943411101760D	BUTTON, STANDBY	SP	CBT1A1167C73	1		
P9	943411101770D	BUTTON, 10KEY		CBT2A1164	1		
P10	943407100020D	FOOT		CKL1A190	4		
P11	nsp	CUSHION, FOOT		CHG2A289	4		
P12	nsp	HOLDER, PCB		CHE170	2		
P13	943419100250D	SHEET, TOP	BK	CGX1A492Z	2		
P13	943419100260D	SHEET, TOP	SP	CGX1A492Y	2		
P14	45451000500AM	STOPPER, SHEET	BK	CMH1A306Z	8		
P14	45451000501AM	STOPPER, SHEET	SP	CMH1A306Y	8		
P15	nsp	BUSHING		CHR1A028	1		
P16	nsp	RUBBER		CHG1A113	1		
P17	943412101070D	KNOB, SELECT	BK	CBN1A274	1	*	
P17	943412101080D	KNOB, SELECT	SP	CBN1AC73	1	*	
P18	943446100760D	PLATE, SELECT KNOB		CGX1A481	1	*	
M1	nsp	EARTH PLATE, HDMI		CMC1A422	1		
M2	nsp	EARTH PLATE, HDMI		CMC1A431	1		
M3	nsp	EARTH PLATE, USB		CMC1A430	1		
M4	nsp	EARTH PLATE, MIC		CMC1A429	1		
M5	nsp	CHASSIS, BOTTOM		CUA2A335	1		
M6	943403100570D	CABINET, TOP	BK	CKC1A215K117	1		
M6	943403100580D	CABINET, TOP	SP	CKC1A215D11	1		
M7	nsp	BRACKET, PCB		CMD1A387	1		
M8	nsp	HEAT SINK		CMY6A381	1		
M9	nsp	BRACKET, H/S PCB		CMD1A802	2		
M10	nsp	BRACKET, PCB		CMD1A830	2		
M11	nsp	SMPS BRACKET		CMD1A790	1		
M12	nsp	PANEL, REAR	E3	CKF2A466Z	1	*	
M12	nsp	PANEL, REAR	E2/E1	CKF3A466Z	1	*	
M12	nsp	PANEL, REAR	E1C	CKF4A466Z	1	*	
M12	nsp	PANEL, REAR	K	CKF4A466Y	1	*	
M12	nsp	PANEL, REAR	X1010SPE1C	CKF4A466X	1	*	
S1	nsp	SCREW		CHD1A012ZR	15		
S2	nsp	SCREW		CTWS3+10GR	1		
S3	nsp	SCREW		CTB3+6JR	11		
S4	nsp	SCREW		CTB3+10JR	19		
S5	nsp	SCREW		CTBD3+8JFZR	18		
S6	nsp	SCREW	BK	CTBD4+6FFZR	4		
S6	nsp	SCREW	SP	CTBD4+6FJFN	4		
S7	nsp	SCREW		CTBD3+6FFZR	12		
S8	nsp	SCREW		CTW3+8JR	11		
S9	nsp	SCREW		CTW3+12JR	2		
S10	nsp	SCREW		CHDR1A023R	4		
S11	nsp	SCREW		CTB3+8JR	2		
S12	nsp	SCREW	BK	CTB3+8JFZR	6		
S12	nsp	SCREW	SP	CTB3+8JFN	6		
S13	nsp	SCREW		CTW3+6JR	2		
S14	nsp	SCREW	BK	CTBD4+8JFZR	2		
S14	nsp	SCREW	SP	CTBD4+8JFN	2		
S15	nsp	SCREW		CTB3+6FR	4		
S16	nsp	SCREW		CHD4A012R	3		
★	nsp	LABEL , POP	E3	CQB1A1181Z	1	*	
★	nsp	LABEL , POP	E2	CQB1A1129Z	1	*	
★	nsp	LABEL , POP	E1	CQB1A1178Z	1	*	
★	nsp	LABEL , POP	X1000E1C	CQB1A1130Z	1	*	
★	nsp	LABEL , POP	X1010E1C	CQB1A1132Z	1	*	
★	nsp	LABEL , POP	K	CQB1A1131Z	1	*	
★	943606501970S	CARD CABLE(1.25mm, 27p, 180mm, Btype, 105)		CWC5C4A27B180B10	1		
★	943606501560S	CARD CABLE(1.00mm, 23p, 270mm, Btype,105)		CWC5F4A23A270B08	1		
★	nsp	ORNAMENT , REAR PANEL		CGX1A482Z	1	*	
★	nsp	TAPE , HEMELON		CHS1A032	2		
★	nsp	LABEL , HOT		CQB1A906Z	1		
★	nsp	LABEL , SERIAL NO		CQB1A995	1		
★	nsp	2P WIRE ASS'Y(100MM)		CWZPM5003TW91A	1		
★	nsp	LOCKER	E2/E1,E1C	CRE1A037	10		

PAKING PCB ASS'Y

NOTE: The symbols in the column "Remarks" indicate the following destinations.
E300E3 : U.S.A. & Canada model
X1000E3 : U.S.A. & Canada model X1000E2 : Europe model X1000E1C : China model X1000E1 : Singapore model X1000K : Japan model X1010E1C : Chin
BK : Black model SP : Premium Silver model

REF No.	Part No.	Part Name	Remarks		Q'ty	New	Ver
1	nsp	BAG,POLY		CPP1A081X	1		
2	90M-YC000780R	CORD,POWER	E300E3	CJA523FBWA	1		
2	943611500590S	CORD,POWER	X1000E3	CJA2A119Y	1		
2	90M-ZC000320R	CORD,POWER	E2/E1	CJA2B054Y	1		
2	90M-YC000850R	CORD,POWER	E1C	CJA2N047WA	1		
2	943611006710S	CORD,POWER	JP	CJA2J049WA	1		
3	943533101680D	PAD,SNOW(TOP)		CPS1A932	1	*	
4	943533101690D	PAD,SNOW(BOTTOM)		CPS1A933	1	*	
5	nsp	INSTRUCTIONMANUALASS'Y			1	*	
5-1	nsp	BAG,POLY(MANUAL)		CPB1A197Z	1		
5-2	35201020800AD	CDMANUALASS'Y	E300E3	CFT1A081ZA	1	*	
	35201020900AD	CDMANUALASS'Y	X1000E3	CFT1A082ZA	1	*	
	35201021000AD	CDMANUALASS'Y	E2/E1	CFT1A083ZA	1	*	
	35201021200AD	CDMANUALASS'Y	X1000E1C	CFT1A084ZA	1	*	
	35201025000AD	CDMANUALASS'Y	X1010E1C	CFT1A086ZA	1	*	
	35201021100AD	CDMANUALASS'Y	JP	CFT1A085ZA	1	*	
5-3	54111100900AD	MANUAL,GUIDE	E300E3	CQX1A1718Z	1	*	
	54111101000AD	MANUAL,GUIDE	X1000E3	CQX1A1719Z	1	*	
	54111101100AD	MANUAL,GUIDE	E2/E1	CQX1A1720Z	1	*	
	54111101300AD	MANUAL,GUIDE	X1000E1C	CQX1A1721Z	1	*	
	54111104300AD	MANUAL,GUIDE	X1010E1C	CQX1A1723Z	1	*	
	54111101200AD	MANUAL,GUIDE	JP	CQX1A1722Z	1	*	
5-4	943543102630D	LABEL,SPEAKERLABEL		CQB1A1123Z	1	*	
5-5	54311024900AD	SHEET,SAFTY	E3	CQE1A577Z	1	*	
5-5	54311026400AD	SHEET,SAFTY	E2/E1	CQE1A575Z	1	*	
5-5	54311026500AD	SHEET,SAFTY	E1C	CQE1A576Z	1	*	
5-5	54311026600AD	SHEET,SAFTY	JP	CQE1A578Z	1	*	
5-6	943116100170D	FM1POLEANT(ULTYPE)		CSA1A044Z	1		
5-7	963116100070S	ANT,AMLOOP(9.5uH/5T)		CSA1A039Y	1		
5-8	nsp	CARD,WARRANTY	E3	CQE1A224P	1		
5-9	nsp	SHEET , INSERTION	E3	CQE1A559Z	1		
5-10	nsp	CARD FOR CHINA INDENTIFICATION	E1C	CQE1A450Z	1		
5-11	nsp	SHEET,SERVICE	JP E300	CQE1A196P	1		
	30701014000AD	REMOCONASS'Y(RC-1181)	X1000E2/E1/E1C /JP	CARTAVRE300	1	*	
6							
6	30701013900AD	REMOCONASS'Y(RC-1182)	X1000E3	CARTAVRX1000	1	*	
7	nsp	BATTERY,AAA2PCSINPACK		CABR03PPB	2		
8	943531103460D	BOX,OUTCARTON	E300E3	CPG1A963U	1	*	
8	943531103470D	BOX,OUTCARTON	X1000E3	CPG1A962O	1	*	
8	943531103480D	BOX,OUTCARTON	X1000E2	CPG1A962N	1	*	
8	943531103490D	BOX,OUTCARTON	X1000E1	CPG1A963S	1	*	
8	943531103500D	BOX,OUTCARTON	X1000E1C	CPG1A962M	1	*	
8	943531103510D	BOX,OUTCARTON	X1010E1C	CPG1A962K	1	*	
8	943531103520D	BOX,OUTCARTON	X1000K	CPG1A962L	1	*	
9	nsp	CONTROL,LABEL		CQB1A993Z	1		
10	nsp	LABEL,WHITEM1SG	SPE1C	CQB1A908Z	1		
11	nsp	WARRANTY CARD CHINA	E1C	CQE1A473Y	1		
12	32401000800AD	MIC AUDYSSEY ACM1HB		CJXACM1HB	1		
★	nsp	China Tuner Isolator, SGLBF-6B	E1C	CLR9Z001Z	1	*	