DENON

Ver. 1

SERVICE MANUAL

MODEL	JP	E3	E2	EK	EA	E1C	E1K	CI
AVR-1613		✓						
AVR-1713		✓	✓			✓		
AVR-1723						✓		

INTEGRATED NETWORK AV RECEIVER

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

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

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

DENON

D&M Holdings Inc.

CONTENTS

ABOUT THIS MANUAL

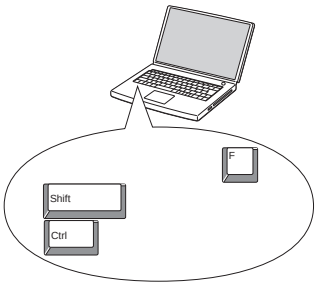
Read the following information before using the service manual.

What you can do with this manual

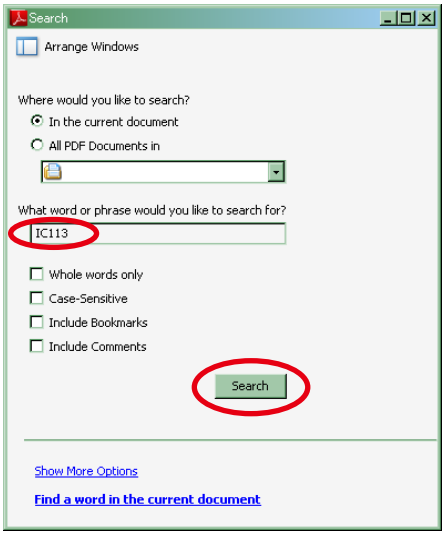
Search for a Ref. No. (phrase) (Ctrl+Shift+F)

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

1.Press **Ctrl**+**Shift**+**F** on the keyboard.
- The Search window appears.



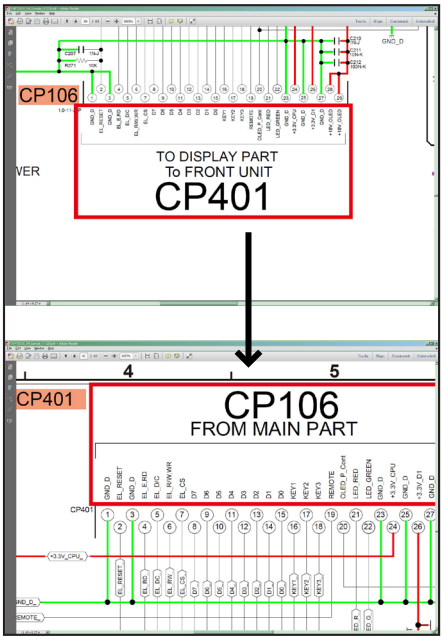
2.Enter the Ref. No. you want to search for in the Search window, and then click the **Search** button.
- A list of search results appears.



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.

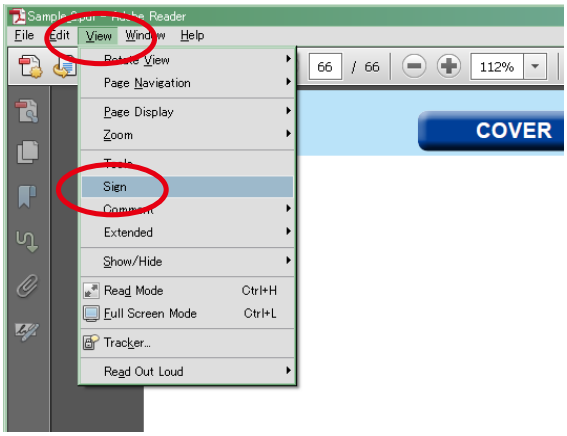
Using Adobe Reader (Windows version)

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.

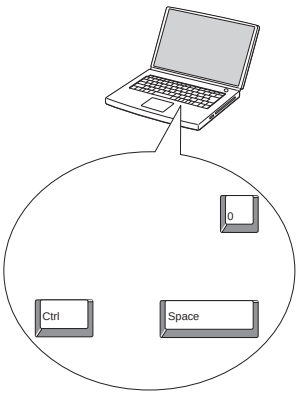


[Example using Adobe Reader 9]
On the "**Document**" menu, click "**Sign**".

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.

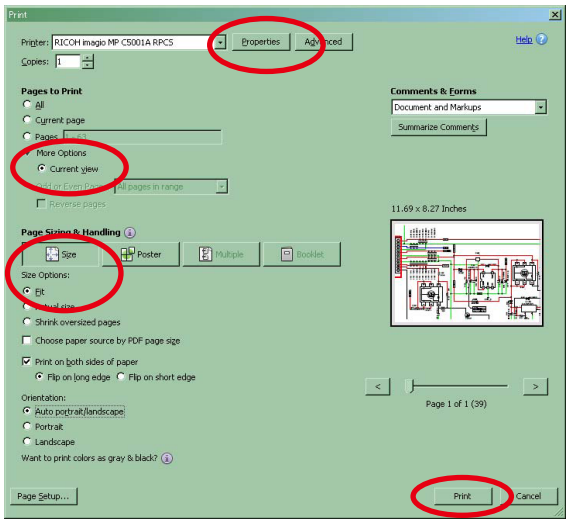


- When you want to move the area shown, hold down **Space** and drag the mouse.
- When you want to show a full page view, press **Ctrl**+**0** on the keyboard.

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.



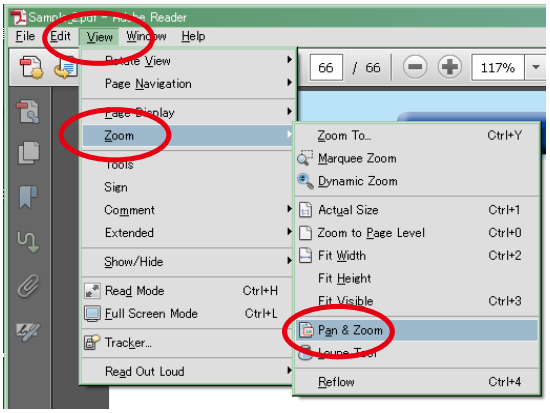
- **Properties**
  Click this button and check that the printer is set to a suitable paper size.
- **Page to print**
  Select the following checkbox.
  "**More Options**" : "**Current View**"
- **Page Sizing & Handling**
  Select the following checkbox.
  "**Size**" / "**Size Options**" : "**Fit**"

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

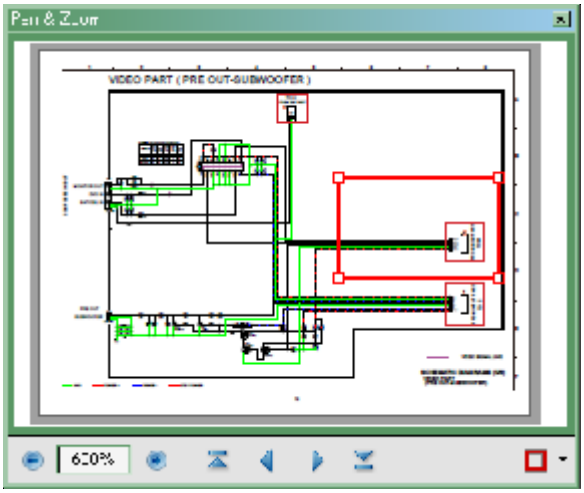
Magnify schematic / printed wiring board diagrams - 2
(Pan & Zoom function)

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.

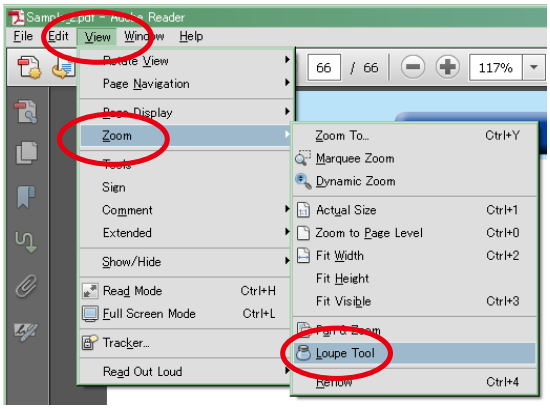


[Example using Adobe Reader 9]
On the "**Tools**" menu, point to "**Select & Zoom**", and then click "**Pan & Zoom Window**".

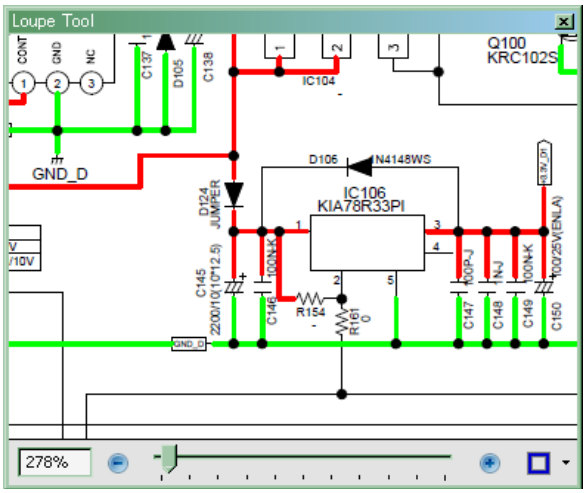
Magnify schematic / printed wiring board diagrams - 3
(Loupe Tool function)

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.

TECHNICAL SPECIFICATIONS

❑ Audio Section

- **Power amplifier**

Rated output :

Front : (for AVR-1613)
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-1713/1723)
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-1613)
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-1713/1723)
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-1613)
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-1713/1723)
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

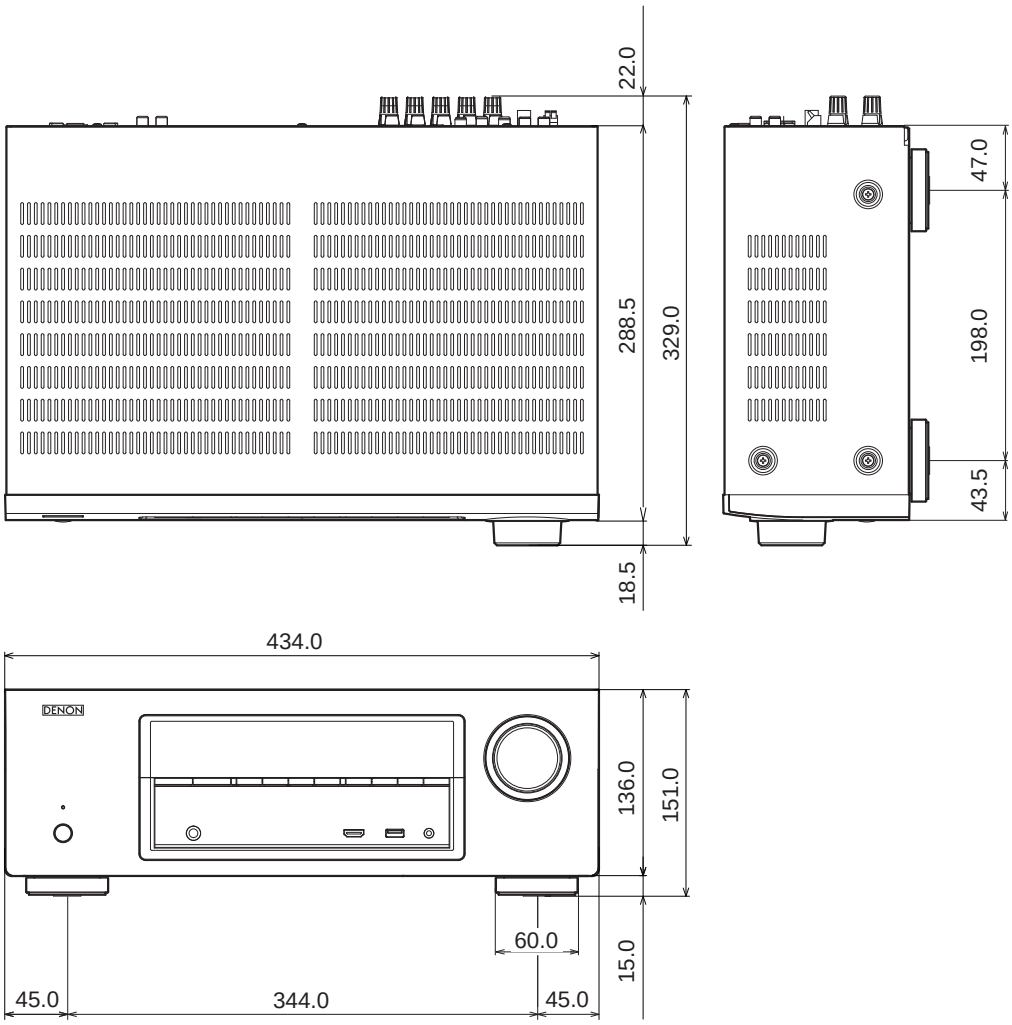
[FM](Note: µV at 75 Ω, 0 dBf = 1 x 10^{-15} W)
Receiving Range (for E3) **:**
[FM] 87.5 MHz – 107.9 MHz
Receiving Range (for E2/E1C) **:**
[FM] 87.5 MHz – 108.0 MHz
Usable Sensitivity :
[FM]1.2 µV (12.8 dBf)
50 dB Quieting Sensitivity :
[FM]MONO 2.8 µV (20.2 dBf)
S/N (IHF-A) :
[FM]MONO 70 dB (IHF–A weighted, 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) **:** AC 230 V, 50 Hz / 60Hz
(for E1C) **:** AC 220 V, 50 Hz

Power consumption : 360 W (for AVR-1613)
390 W (for AVR-1713/1723)
0.1 W (Standby)

DIMENSION



Weight : 8.2kg (AVR-1613)
8.3kg (AVR-1713/1723)

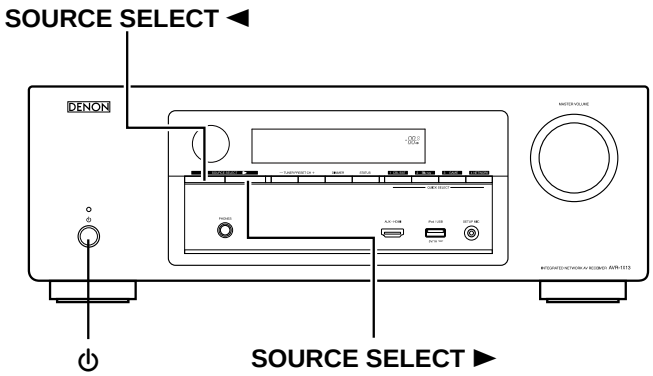
CAUTION IN SERVICING

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 "SOURCE SELECT ◄" and "SOURCE SELECT ►" buttons.
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.



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.

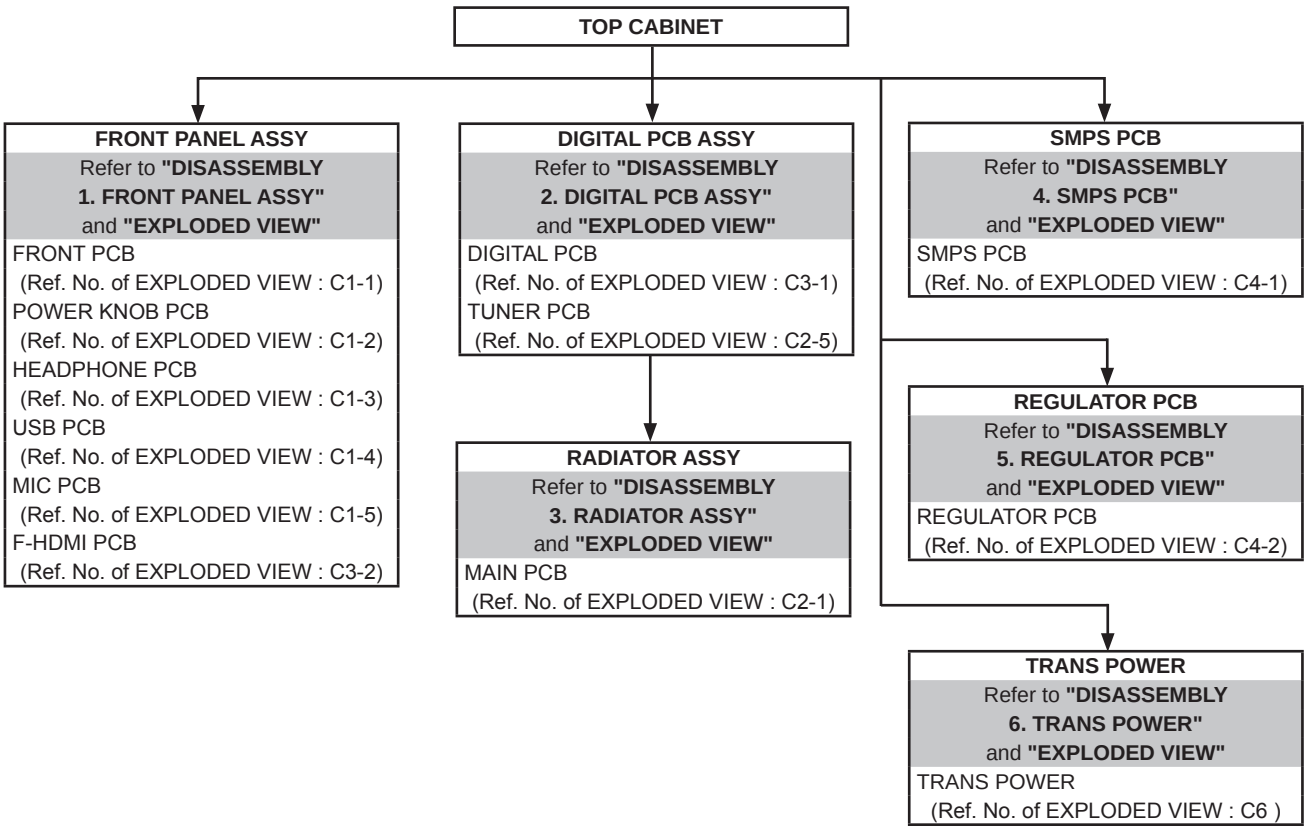
8U-110084S : EXTENSION UNIT KIT : 1 Set

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 39 page.)

DISASSEMBLY

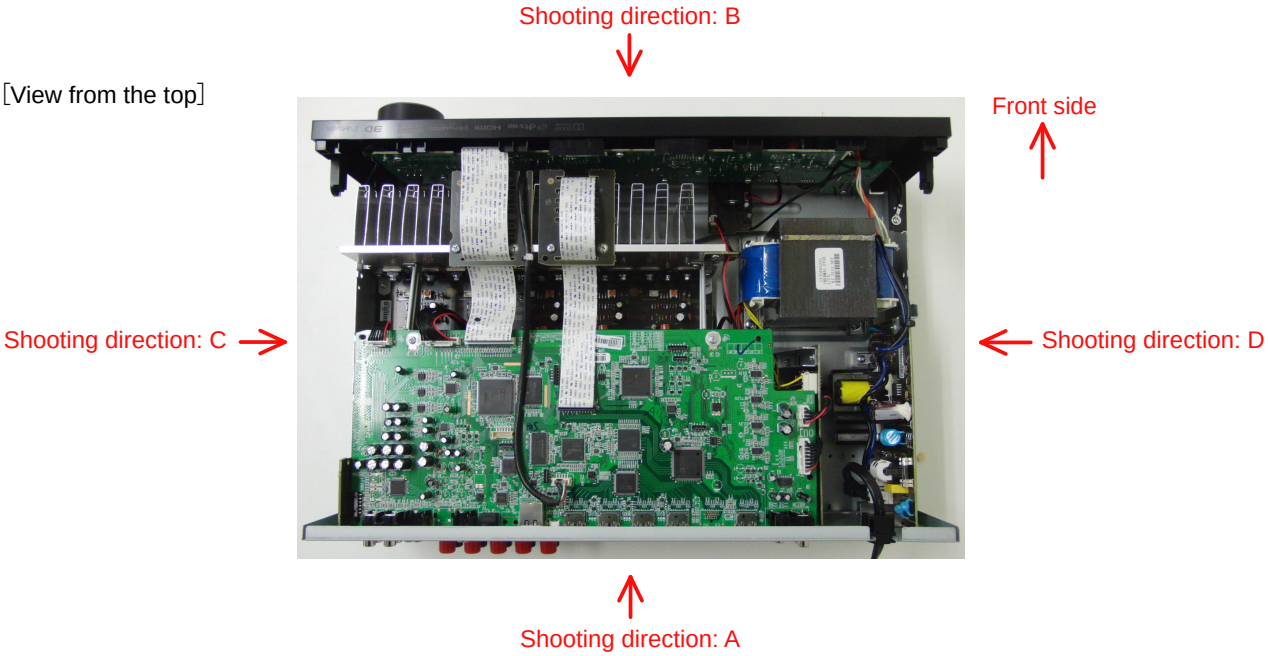
- Disassemble in order of the arrow in the following figure.
- In the case of the re-assembling, assemble it in order of the reverse of the following flow.
- In the case of the reassembling, observe "Caution concerning disassembly and assembly!".
- If wire bundles are untied or moved to perform adjustment 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-1613E3 model.

The viewpoint of each photograph (Shooting direction)



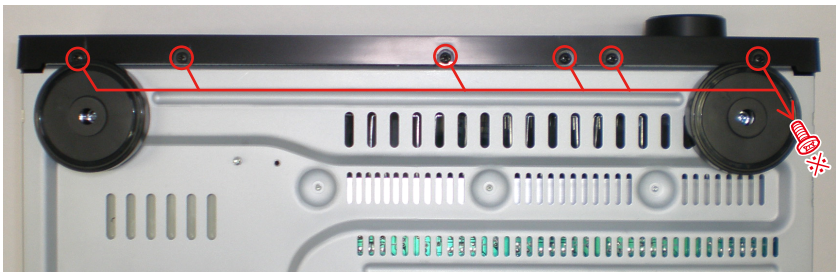
Note: • Before disassembling this unit, be sure to discharge the power line (the colored line in the schematic diagram).
• FFC cables with one end disconnected should be insulated by using tapes, etc.

1. FRONT PANEL ASSY

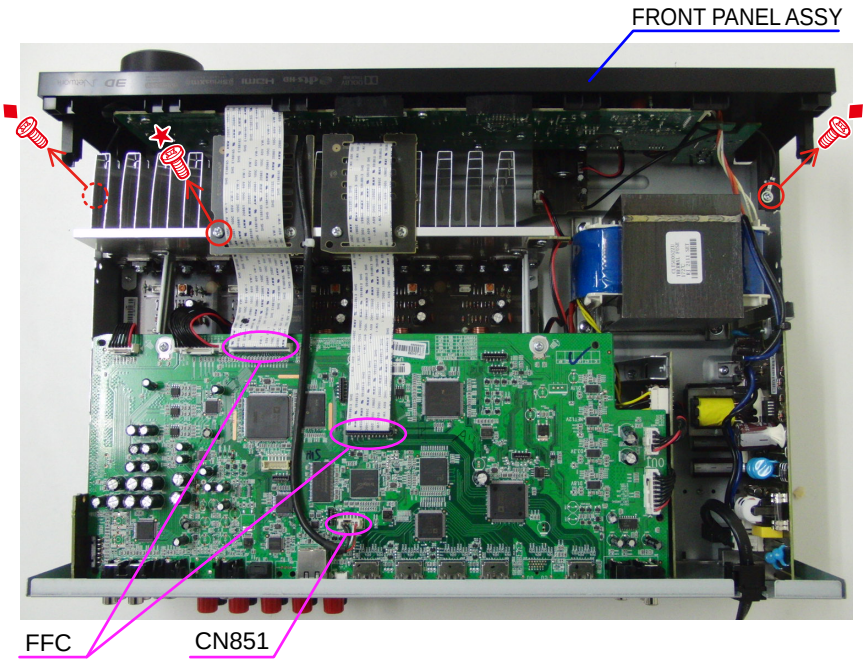
Proceeding : CABINET TOP → FRONT PANEL ASSY

(1) Remove the screws.

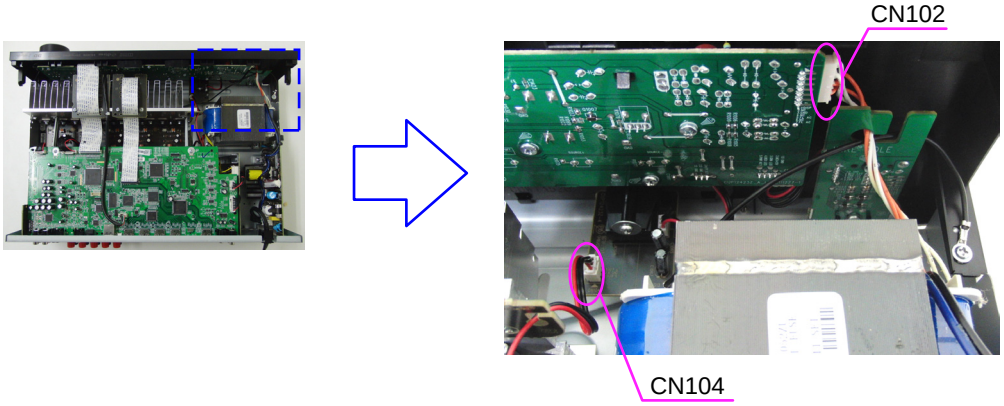
View from the bottom



(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.

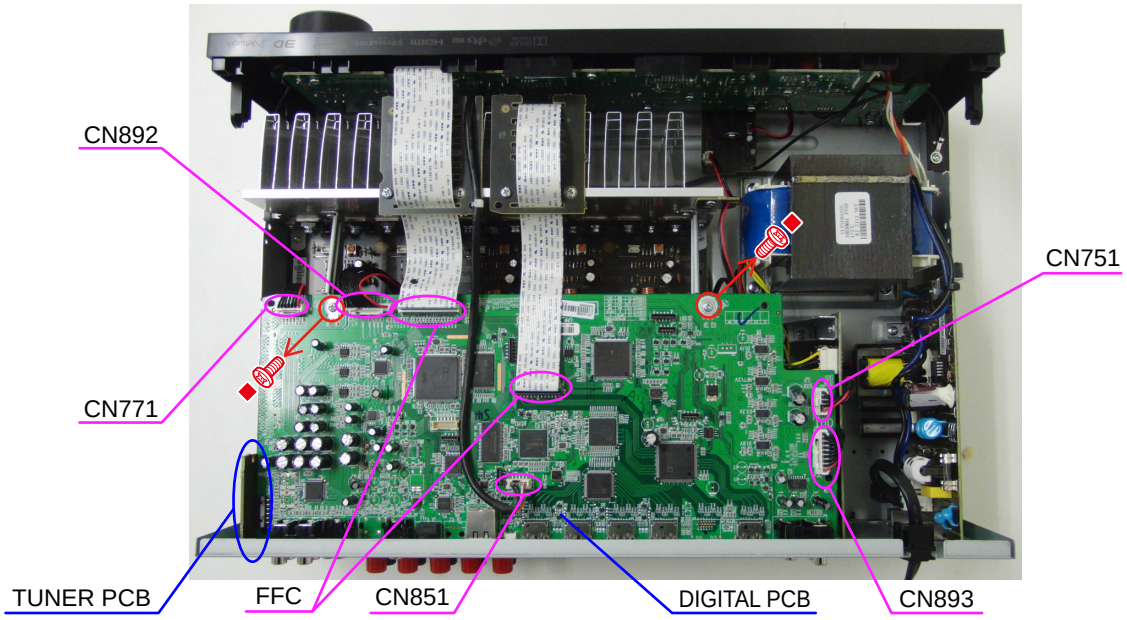
2. DIGITAL PCB ASSY

Proceeding : CABINET TOP → 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.



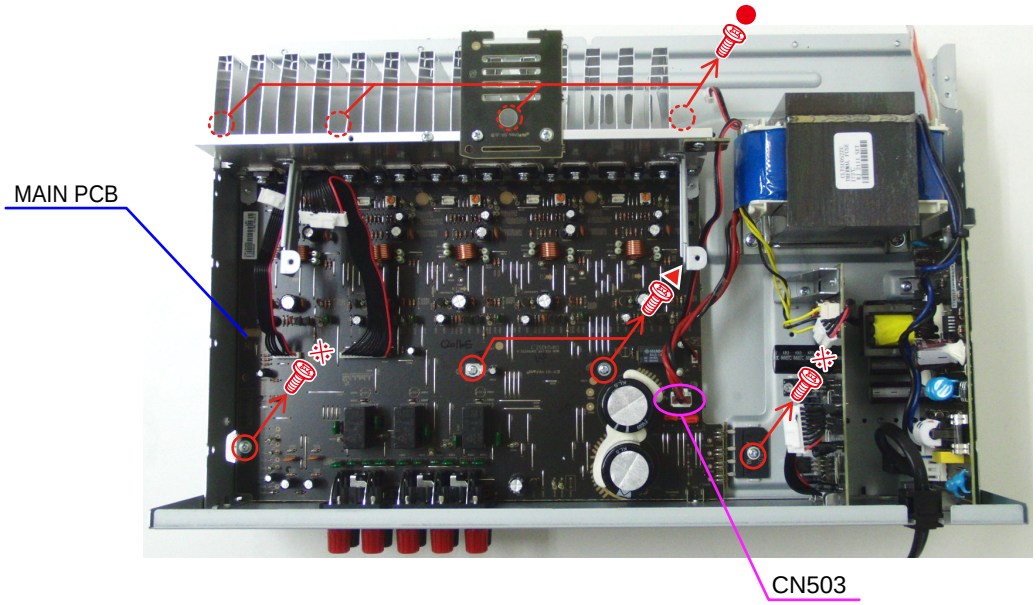
3. RADIATOR ASSY

Proceeding : CABINET TOP → 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 : CABINET TOP → **SMPS PCB**

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

5. REGULATOR PCB

Proceeding : CABINET TOP → **REGULATOR PCB**

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

6. TRANS POWER

Proceeding : CABINET TOP → **TRANS POWER**

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

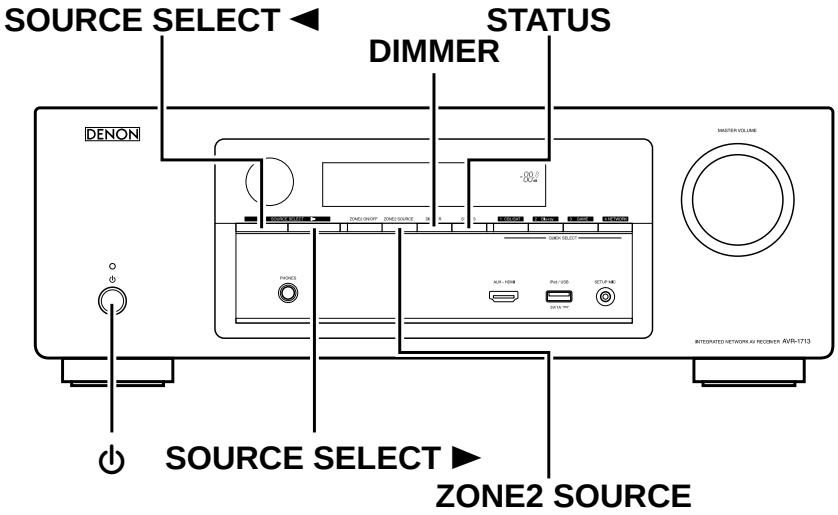
SPECIAL MODE

Special mode setting button

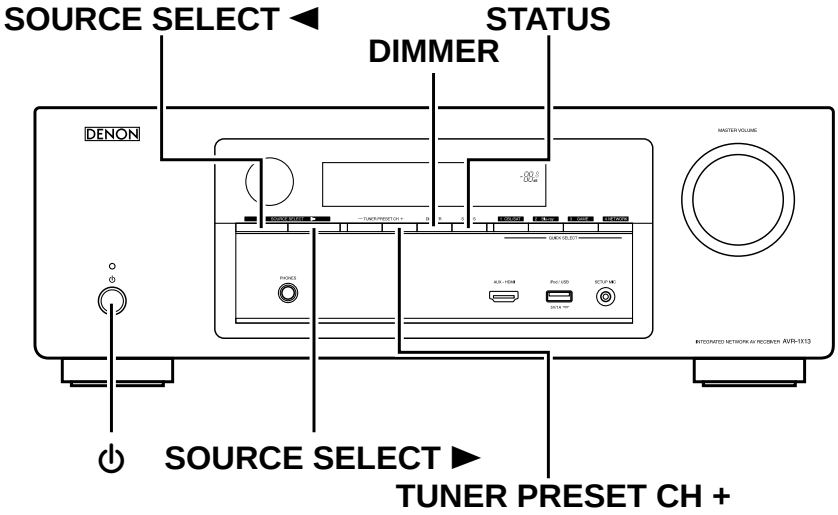
※ No.1 - 9 : Press the ⏻ button to turn on the power while pressing both the button A,B and the button C at the same time.
※ No.10 : Turn on the power, then press and hold down A and B buttons for over 3 second.

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 18 page)
2	Displaying the protection history mode	DIMMER	STATUS	ZONE2 SOURCE (AVR-1713E3) TUNER PRESET CH + (Other model)	The protection history is displayed. (Refer to 21 page)
3	User Initialization mode (Installer Setup settings are not initialized.)	SOURCE SELECT ◄	SOURCE SELECT ►	-	Backup data initialization is carried out. (Installer Setup settings are not initialized.)
4	Mode for switching tuner frequency step (E2 model Only)	DIMMER	SOURCE SELECT ►	-	Change tuner frequency step to FM:200kHz/50kHz STEP. Press the SOURCE SELECT ◄/► 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.
5	Mode for preventing remote control acceptance	ZONE2 SOURCE (AVR-1713E3) TUNER PRESET CH + (Other model)	SOURCE SELECT ►	-	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 mode	ZONE2 SOURCE (AVR-1713E3) TUNER PRESET CH + (Other model)	SOURCE SELECT ►	-	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 mode (Master volume is not locked.)	ZONE2 SOURCE (AVR-1713E3) TUNER PRESET CH + (Other model)	SOURCE SELECT ►	-	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 mode	ZONE2 SOURCE (AVR-1713E3) TUNER PRESET CH + (Other model)	SOURCE SELECT ►	-	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 mode	DIMMER	STATUS	ZONE2 SOURCE (AVR-1713E3) TUNER PRESET CH + (Other model)	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 27 page)
10	Remote ID Setup mode	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 23 page)

AVR-1713E3



Other model



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 "STATUS" and "DIMMER" 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-1613 E3 model	AVR1613 E3
AVR-1713 E3 model	AVR1713 E3
AVR-1713 E2 model	AVR1713 E2
AVR-1713 E1C model	AVR1713 E1C
AVR-1723 E1C model	AVR1723 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: **.**

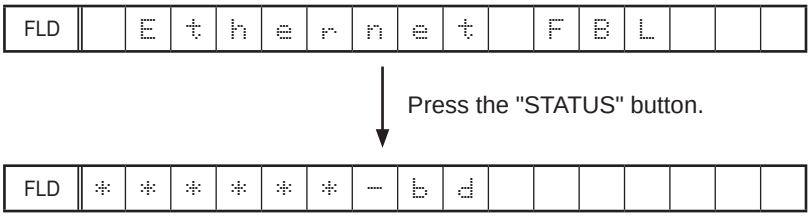
⑥ Audio PLD :

FLD	Audio PLD: **.**

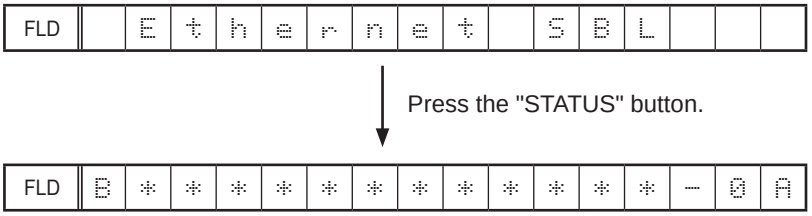
⑦ GUI SFLASH :

Model	FLD
AVR-1613 E3 model	GUI :5718 ****
AVR-1713 E3 model	GUI :5711 ****
AVR-1713 E2 model	GUI :5712 ****
AVR-1713 E1C model	GUI :5715 ****
AVR-1723 E1C model	GUI :5716 ****

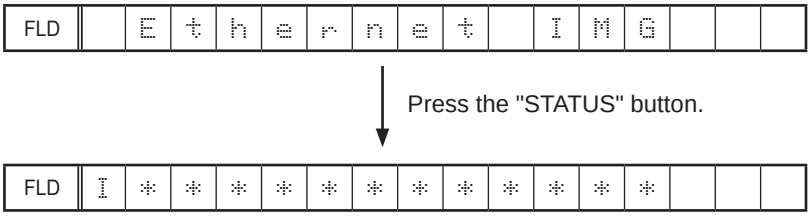
⑧ Ethernet(DM860) 1st Boot Loader, Hardware ID :



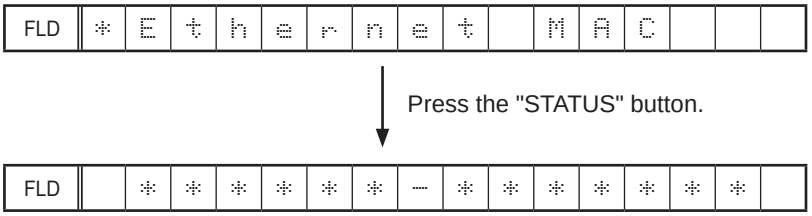
⑨ Ethernet(DM860) 2nd Boot Loader, Rhapsody Flag :



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 "DIMMER", "STATUS" buttons and "ZONE2 SELECT"(only AVR-1713E3)/ "TUNER PRESET CH +"(expect AVR-1713E3) button.
Press the SOURCE SELECT ◄/► 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.

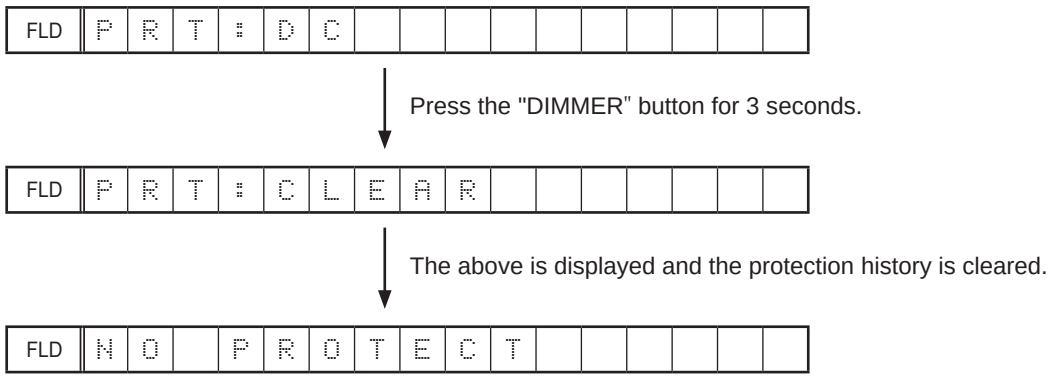
※ Additional causes of protection can be due to loose connections, associated components, Microprocessor, etc.

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" 9 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.

FLD				R	E	M	O	T	E		I	D		?		

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

Button	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)

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.

4.1. Starting diagnostic mode

Press the ⏻ button to turn on the power while pressing the "DIMMER", "STATUS" and "ZONE2 SELECT"(only AVR-1713E3)/ "TUNER PRESET CH +"(expect AVR-1713E3).
Press the SOURCE SELECT ◄/► to select "1.SERVICE CHECK", then press the "STATUS" button to set.
TUNED, STEREO and RDS are lit in FL display.

4.2. Canceling diagnostic mode

Turn off the power by pressing the ON/Standby button.

4.3. Operation

When you perform remote operation in accordance with the instructions in "Details of how to operate remote controller" *a) in the table below using the remote control unit (RC-1156).
You will find using another remote control unit with the macro functions very useful. To use the macro functions, program a macro function to output a remote control code in accordance with the steps in *b) in the table below.

4.4. Video system confirmation items

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

	Confirmation item	Setting and display	Details of how to operate remote controller *a)	Output sequence of remote control codes ※ It is useful to form a macro program. *b)	Contents of confirmation	Remarks
1	Analog Video (signal) Path **fig.1**	Display: V01 DVD	1.Press [AMP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [1/./]	①KEY 1/CODE1 (Main Zone) Initialization	·Input : CVBS / Output : CVBS	
			4.Press [DVD]	②DVD (Main Zone)		
2	HDMI (signal) Path **fig.2**	Display: V01 DVD	1.Press [AMP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [1/./]	①KEY 1/CODE1 (Main Zone) Initialization	·Input HDMI / Output : HDMI (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		
3	OSD FUNCTION **fig.3**	Menu : ON Display: V02 DVD	1.Press [AMP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [2/ABC]	①KEY 2/ABC (Main Zone) Initialization	·OSD Display / Output : HDMI (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		
			5.Press [AMP] 6.Press [MENU]	③GUI MENU (Main Zone)		
4	CEC FUNCTION (Control Monitor : HDMI Monitor) **fig.4**	HDMI Control : ON Display: V03 DVD	1.Press [AMP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [3/DEF]	①KEY 3/DEF (Main Zone) Initialization & CEC 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. (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		
5	HDMI Audio (signal) Path (Audio : AMP) **fig.5a** **fig.5b**	Audio : AMP(When checking the audio output from AMP) Display: V05 DVD	1.Press [AMP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [5/JKL]	①KEY 5/JKL (Main Zone) Initialization & Select Audio AMP	·Input : HDMI (Signal of PCM, DolbyDigital or DTS) / Output : Speakers ·Input : HDMI (Signal of HD Audio) / Output : Speakers (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		
6	HDMI Audio (signal) Path (Audio : TV) **fig.2**	Audio : TV(When checking the audio output from TV) Display: V06 DVD	1.Press [AMP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [6/MNO]	①KEY 6/MNO (Main Zone) Initialization & Audio Select TV	·Input : HDMI (Signal of PCM or DolbyDigital or DTS) / Output : HDMI (Audio output from connected TV) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		

4.5. Audio system confirmation items

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

	Confirmation item	Setting and display	Details of how to operate remote controller	Output sequence of remote control codes ※ It is useful to form a macro program.	Contents of confirmation	Remarks
1	Analog (signal) Path **fig.6**	Input Mode : Fixed ANALOG SURROUND mode : DIRECT Amp assign : NORMAL Display: 	1.Press [AMP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [7/PQRS]	①KEY 7/PQRS (Main Zone) Initialization & Amp assign NORMAL& Input Mode Fixed ANALOG & SURROUND mode DIRECT	·Input : Analog / Output : Speakers (Front L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		
2	DIGITAL (signal) Path (MAIN) **fig.7**	Input Mode : Fixed DIGITAL Amp assign : NORMAL Display: 	1.Press [AMP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [8/TUV]	①KEY 8/TUV (Main Zone) Initialization & Amp assign NORMAL& Input Mode Fixed DIGITAL	·Input : Digital / Output : Speakers (Front L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		
3	HDMI (signal) Path **fig.8**	Input Mode : Fixed HDMI Amp assign : NORMAL Display: 	1.Press [AMP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [MOVIE]	①MOVIE Select Initialization &Amp assign NORMAL & Input Mode Fixed HDMI	·Input : HDMI / Output : Speakers (Front L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		
4	A/D (signal) Path (Main Zone) **fig.9a** **fig.9b**	Amp assign : NORMAL SURROUND mode : Multi ch STEREO Vol -20dB Speaker Config : SSSSY (Front/Center/Surround/SourroundBack : Small, SW : Yes) Display: 	1.Press [AMP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [MUSIC]	①MUSIC Initialization &Amp assign NORMAL & SURROUND mode : Multi ch STEREO & Volume -20dB	·Input : Analog / Output : Speakers (Front L/R) ·Input : Analog / Output : SW(20Hz) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		

BLOCK DIAGRAM

fig.1

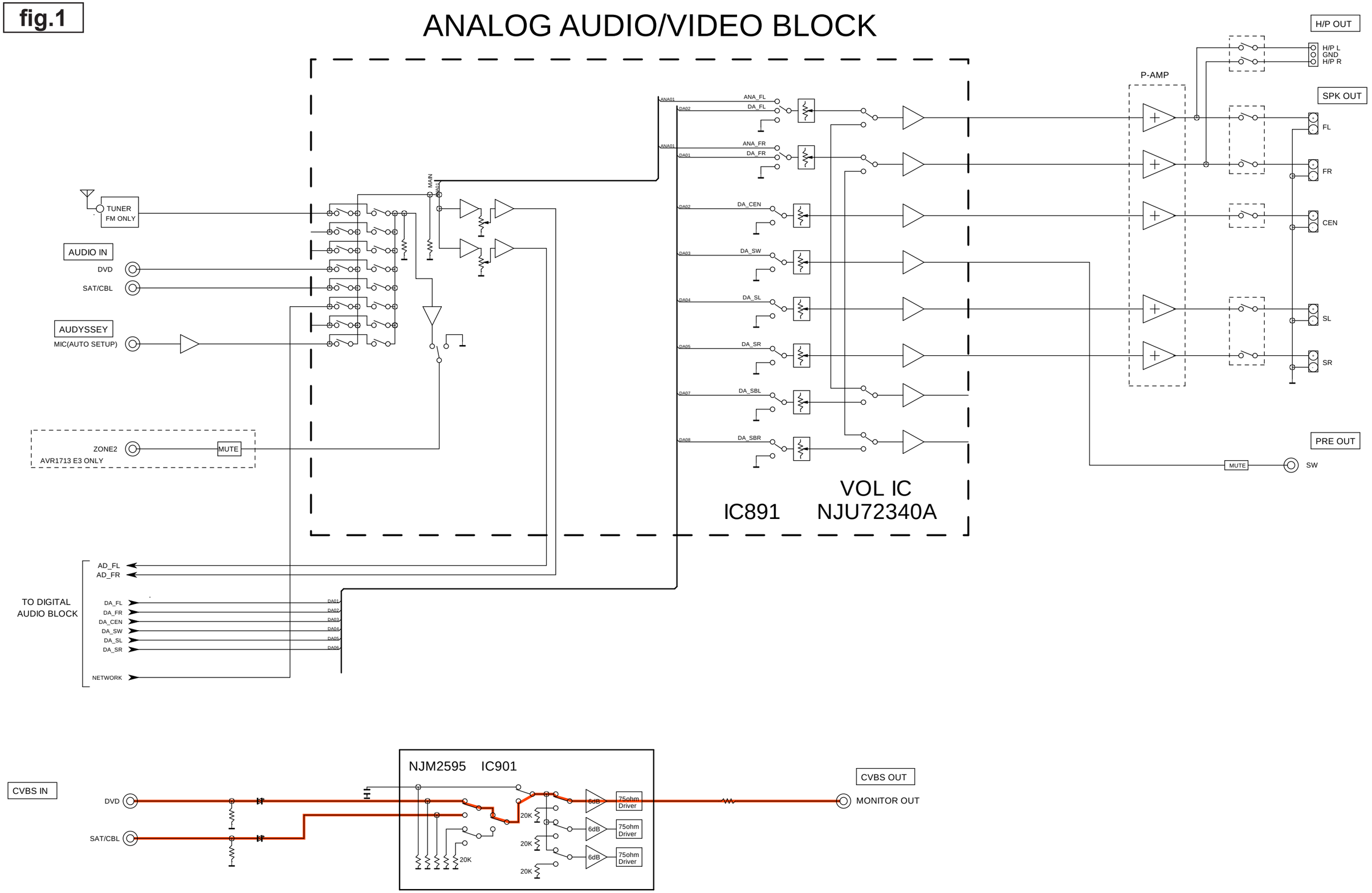


fig.2

DIGITAL AUDIO/HDMI BLOCK

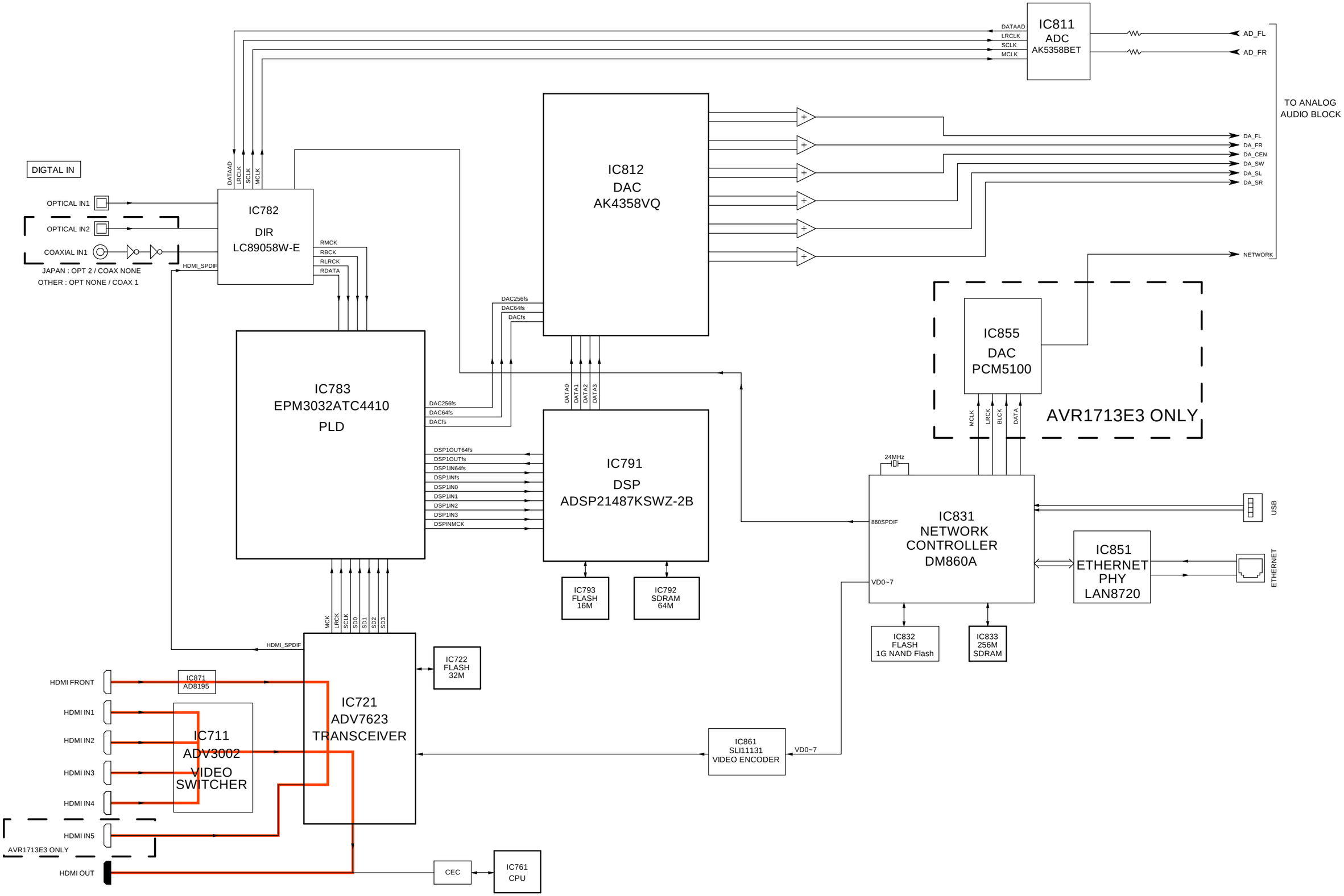


fig.3

DIGITAL AUDIO/HDMI BLOCK

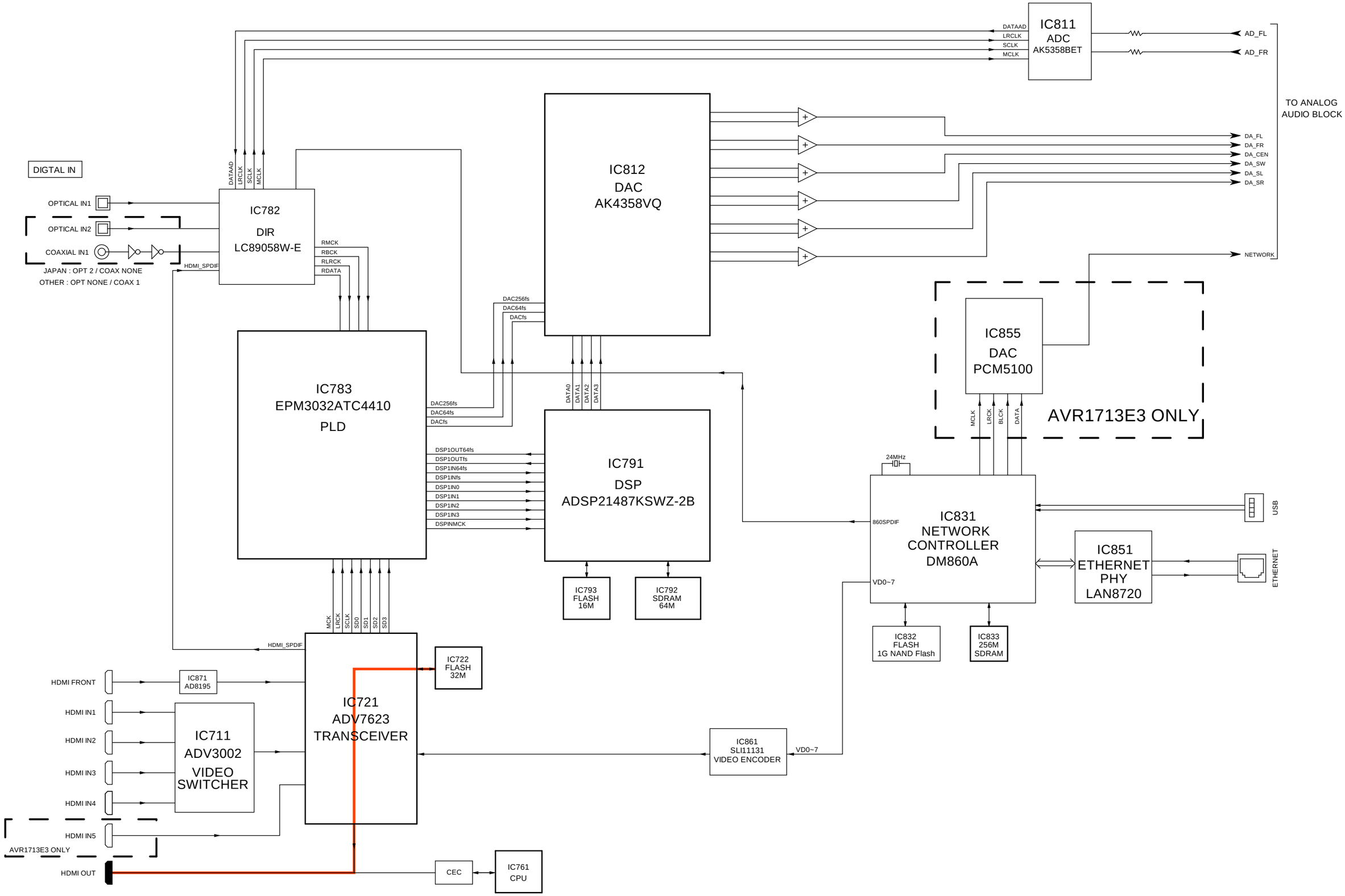


fig.4

DIGITAL AUDIO/HDMI BLOCK

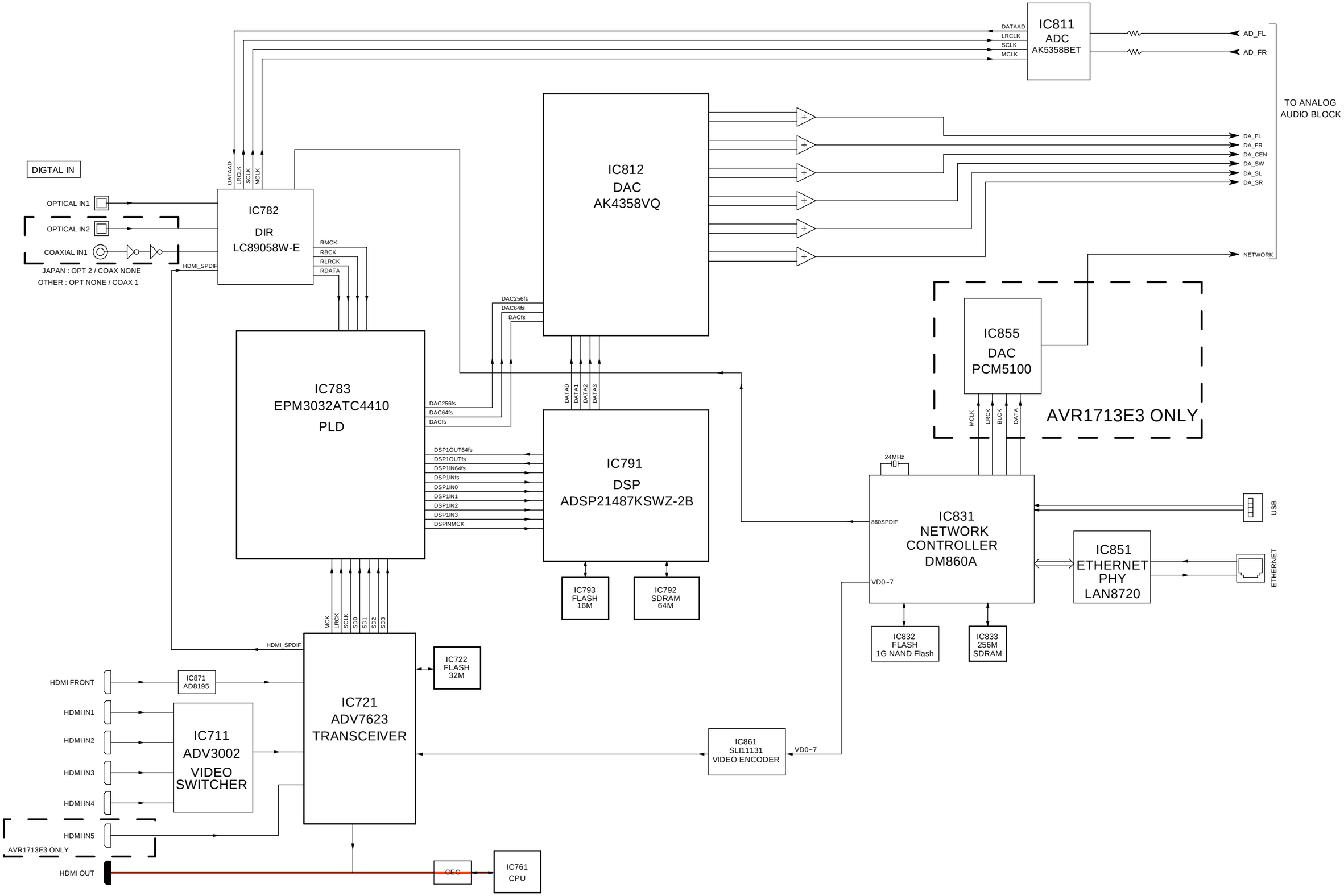


fig.5a

DIGITAL AUDIO/HDMI BLOCK

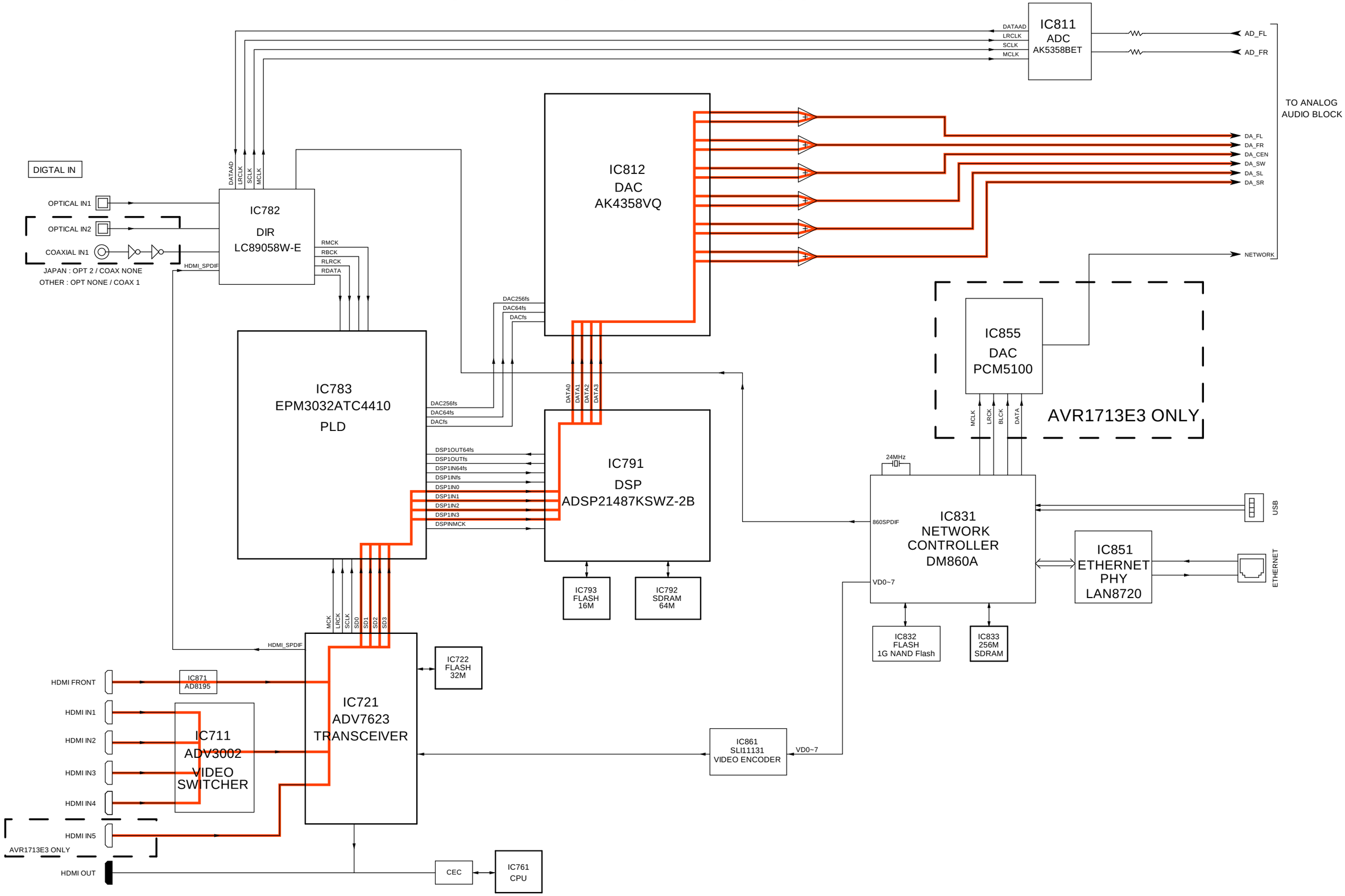


fig.5b

ANALOG AUDIO/VIDEO BLOCK

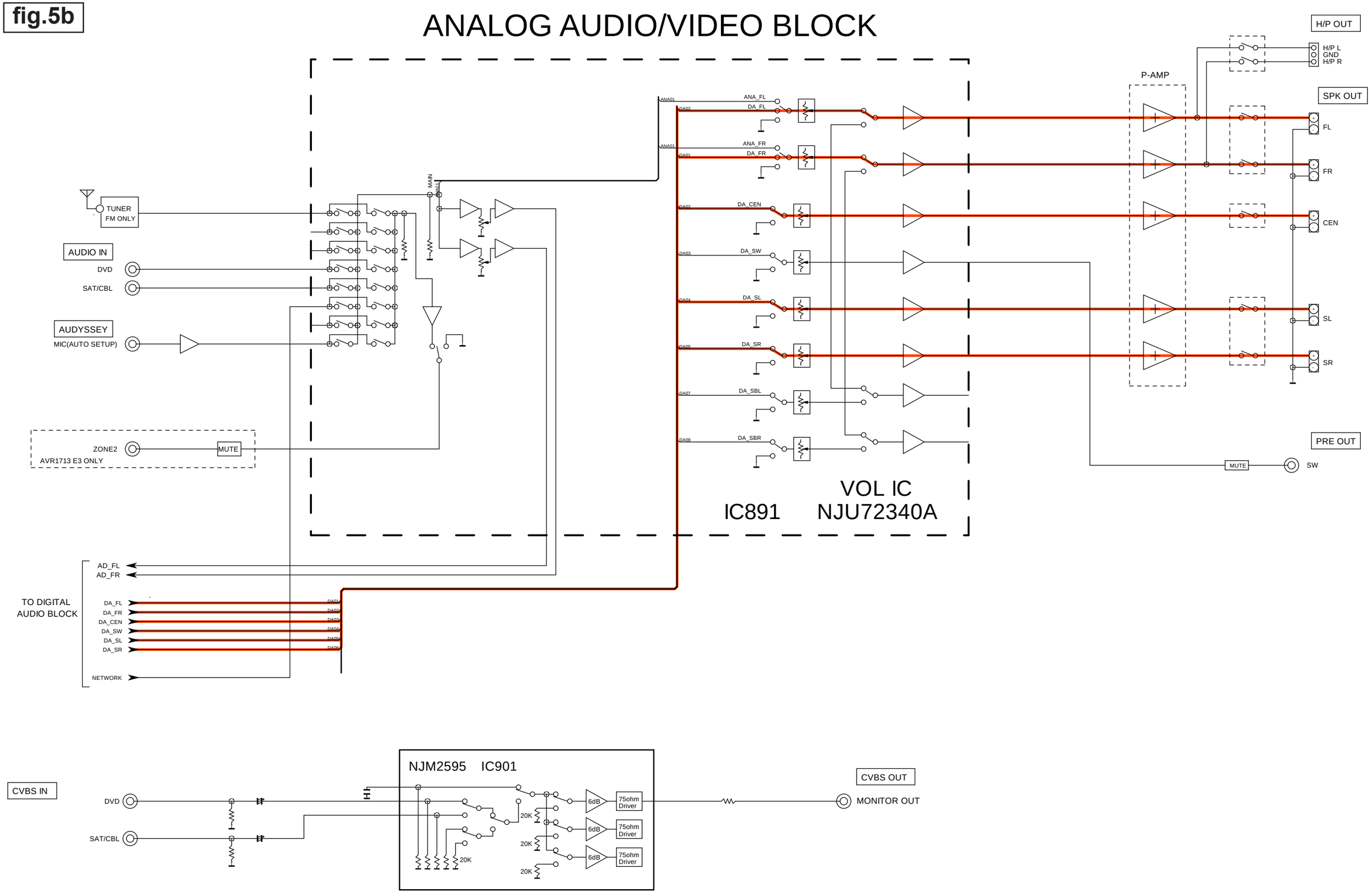


fig.6

ANALOG AUDIO/VIDEO BLOCK

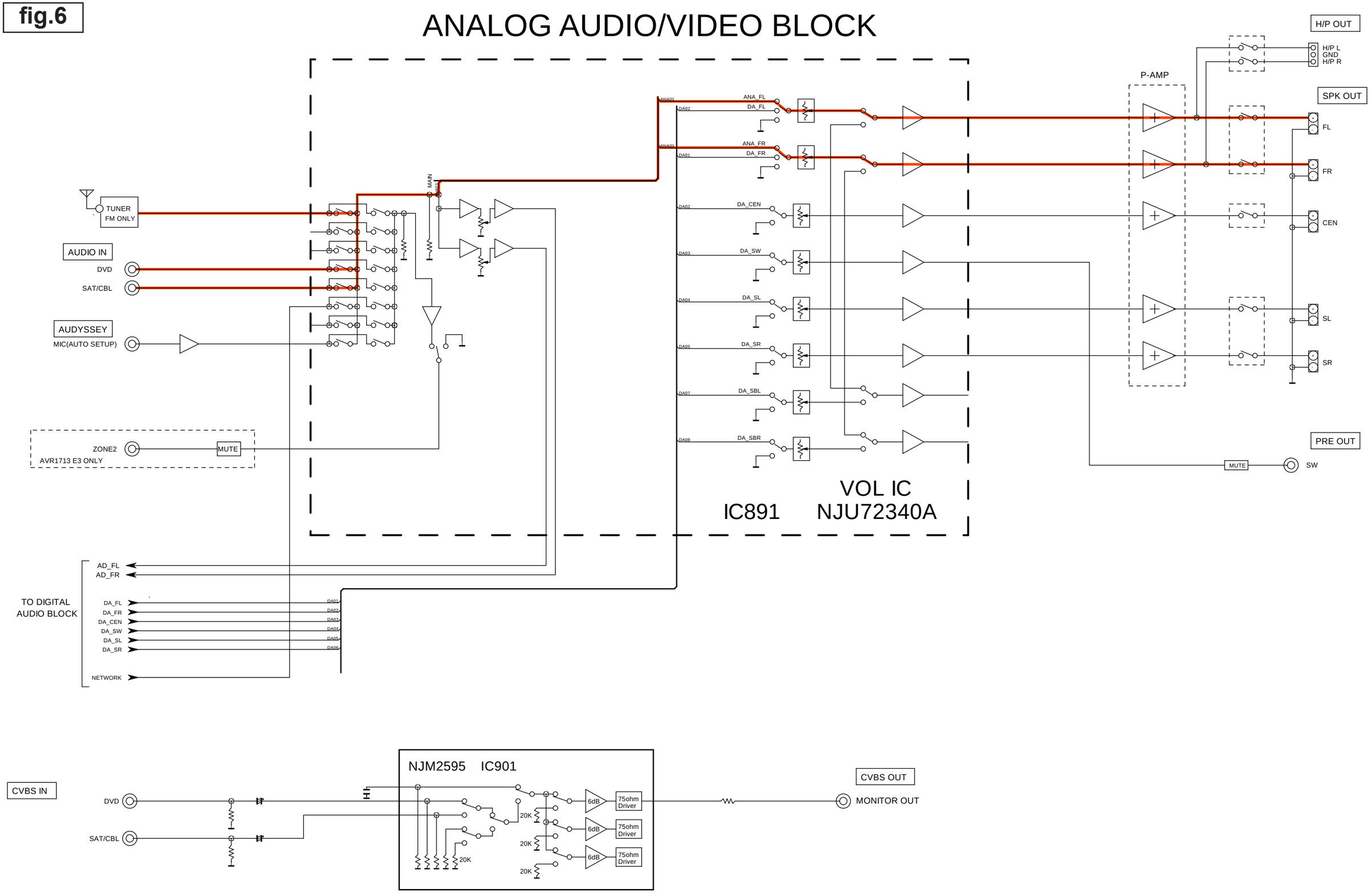


fig.7

DIGITAL AUDIO/HDMI BLOCK

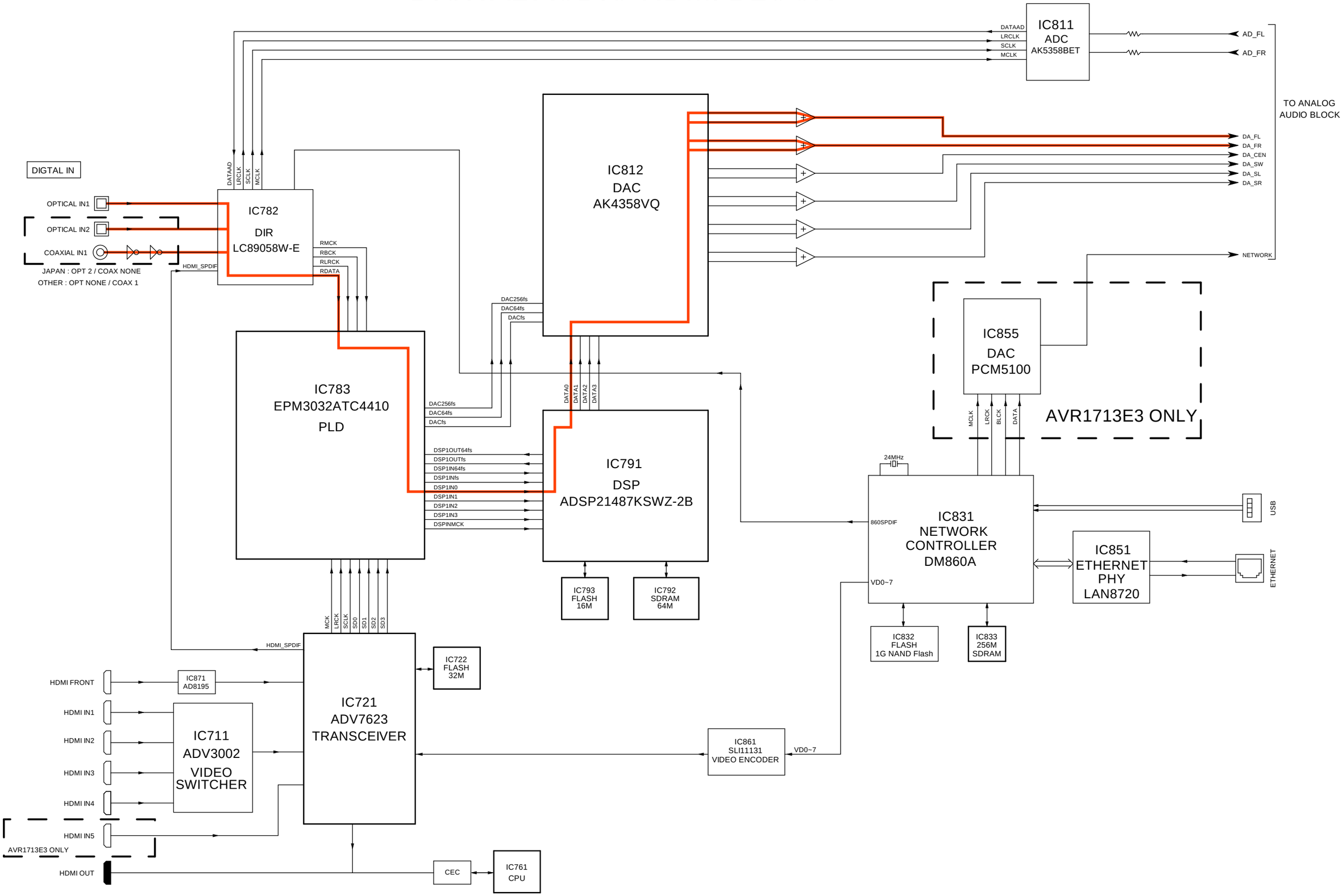


fig.8

DIGITAL AUDIO/HDMI BLOCK

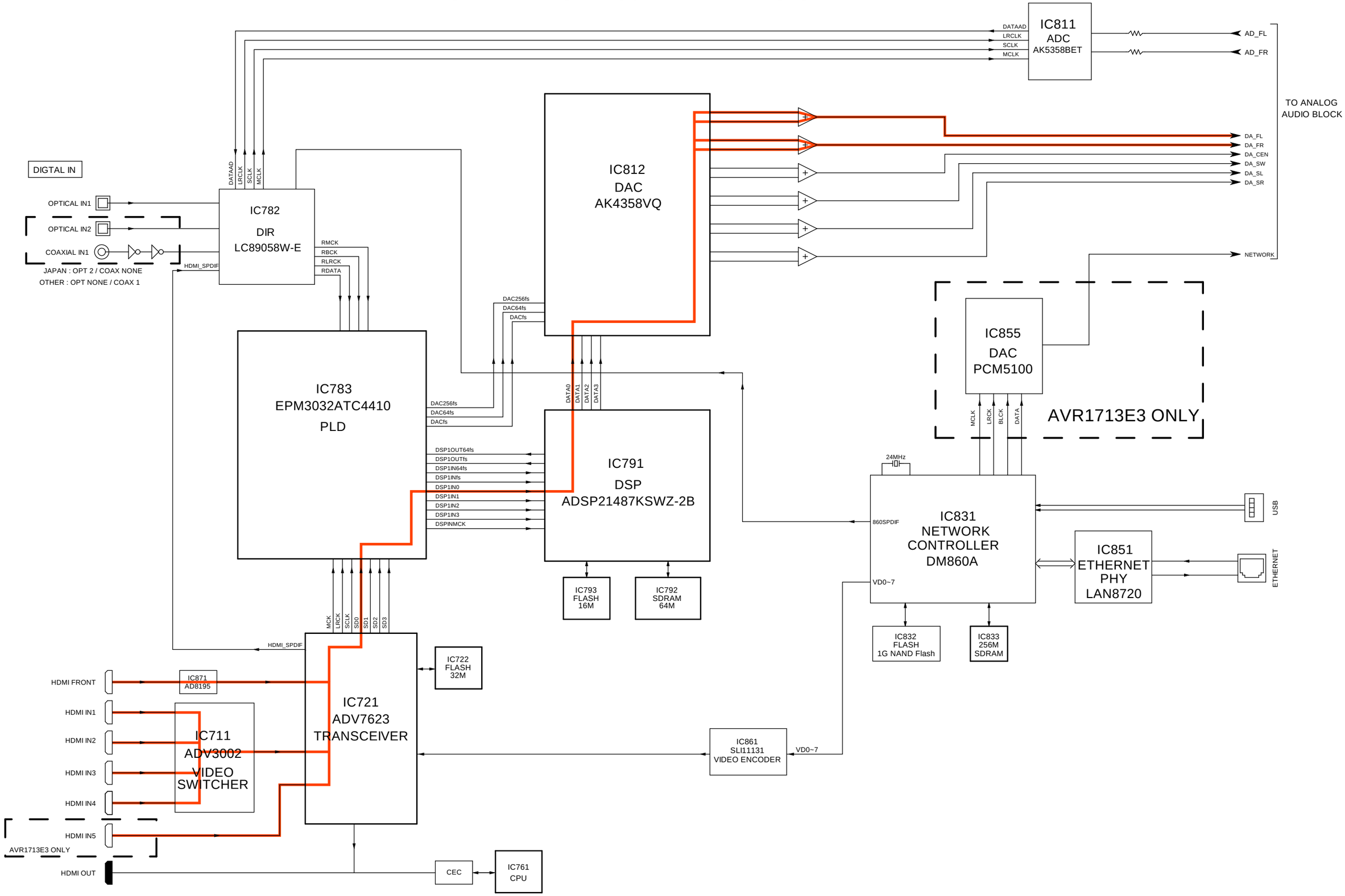


fig.9a

ANALOG AUDIO/VIDEO BLOCK

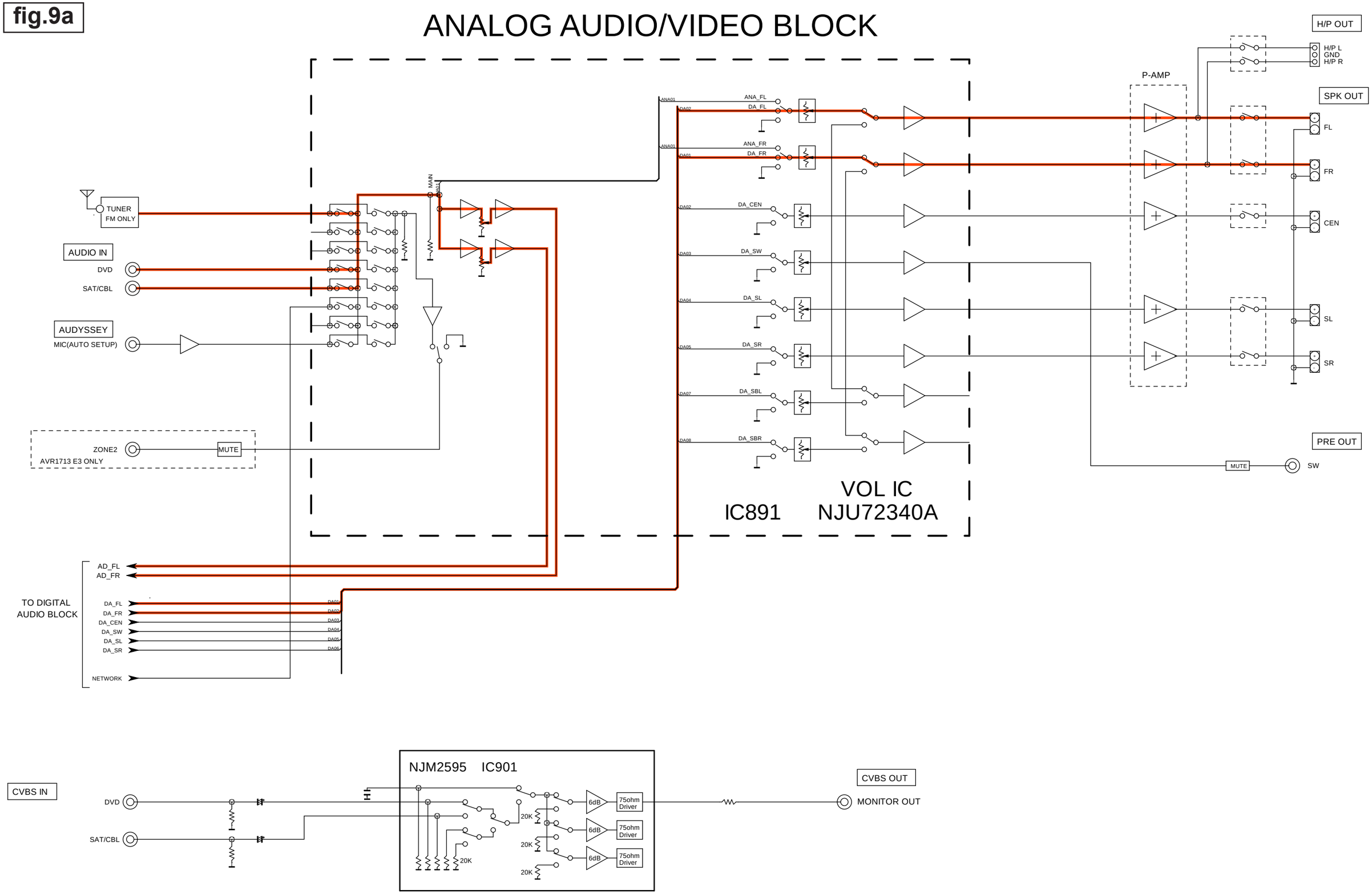
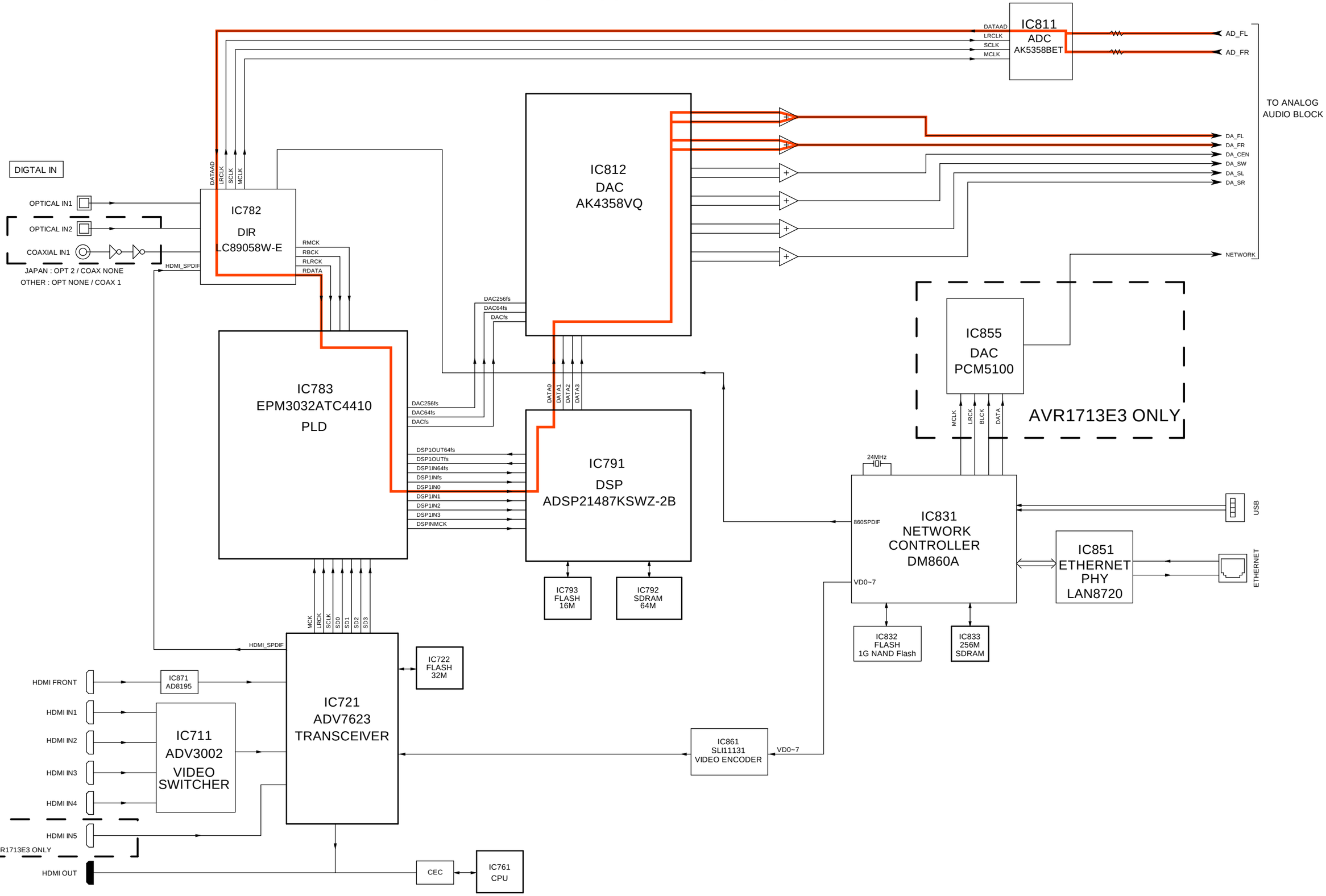
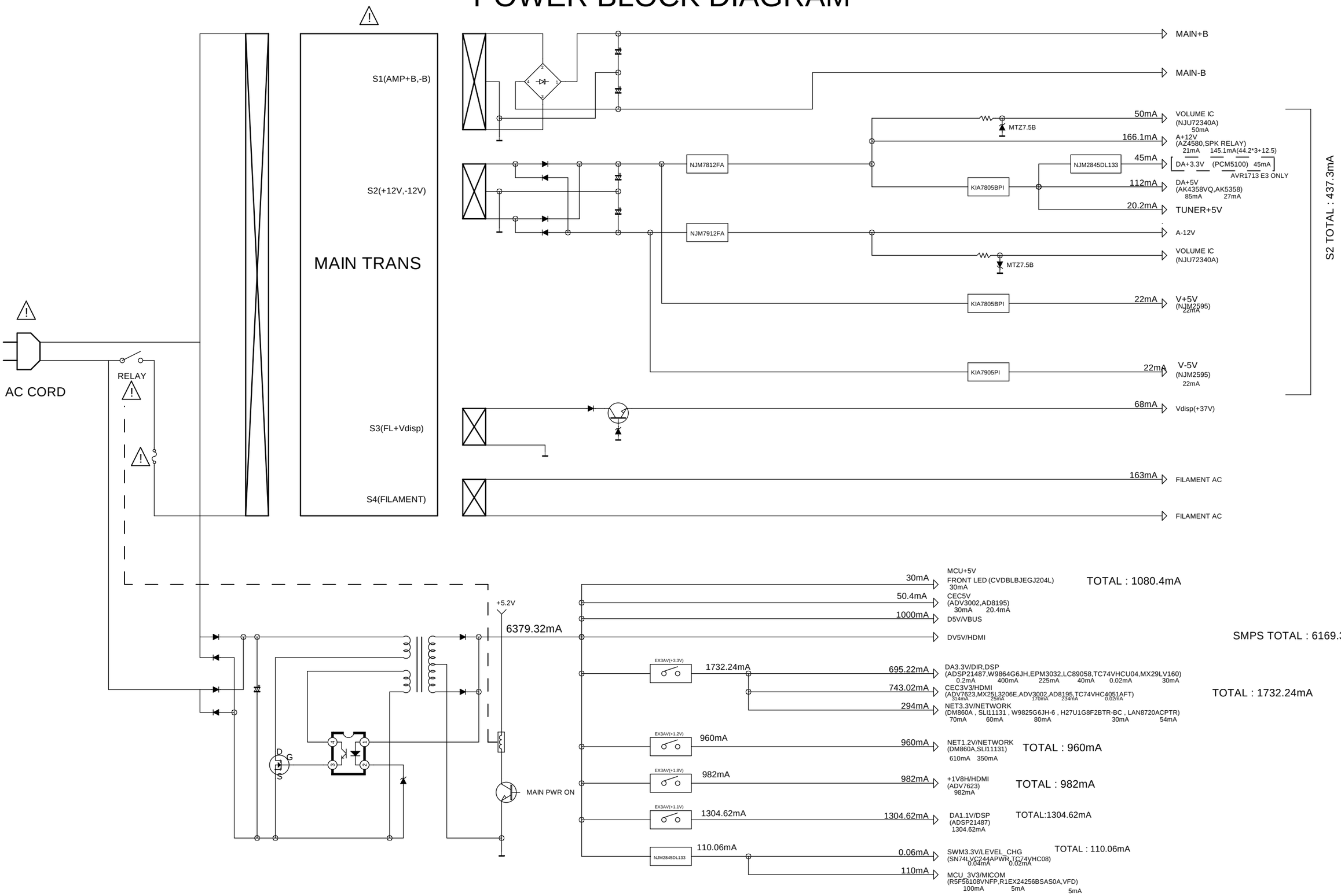


fig.9b

DIGITAL AUDIO/HDMI BLOCK



POWER BLOCK DIAGRAM



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

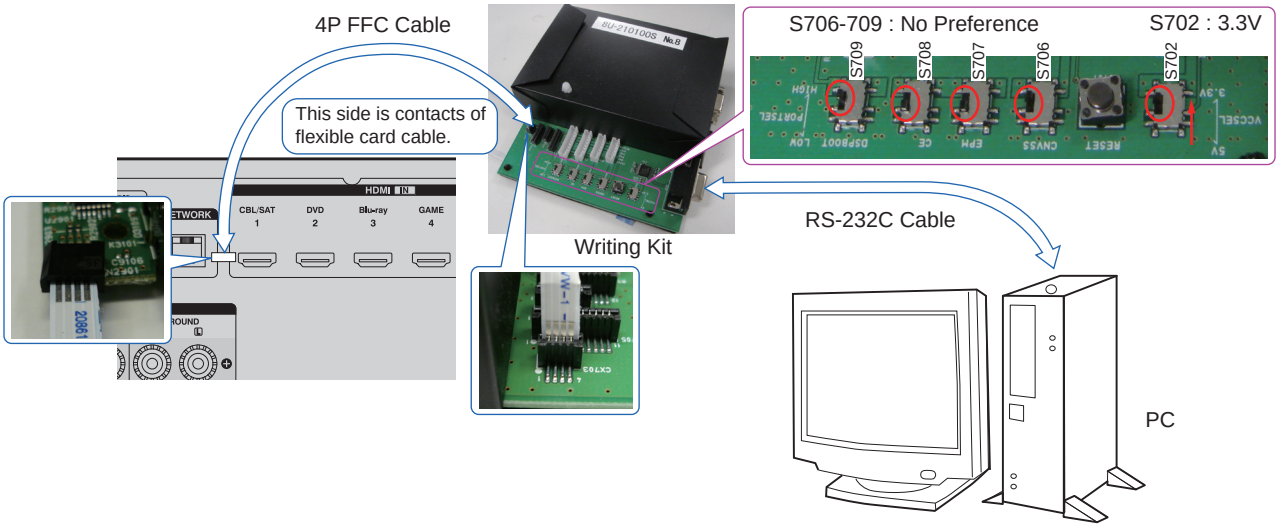
1. How to update by DFW

1.1. Preparations before starting the operation

(1) Personal Computer (Installed "DFW_0057_AVR1713_1723_1613(Rev.2.1.5).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. Turn on the AV receiver

Operate the following. Turn on the AV receiver.

(1) Connect the power cable to the AC outlet while simultaneously pushing the "SOURCE SELECT ◄", "SOURCE SELECT ►" and the "ZONE2 SELECT"(only AVR-1713E3)/ "TUNER PRESET CH +"(expect AVR-1713E3) button of the front panel.

(2) Confirm the power indicator is green and "WRITTING" is displayed in the front panel.

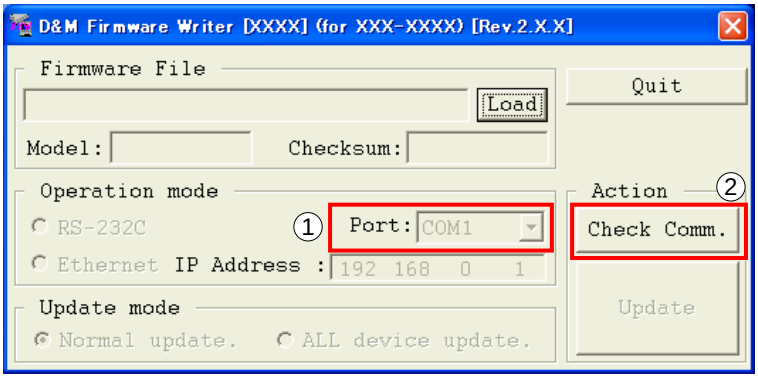
1.4. Run the DFW

Run the "DFW_0057_AVR1713_1723_1613(Rev.2.1.5).exe" on desktop of PC.

1.5. 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

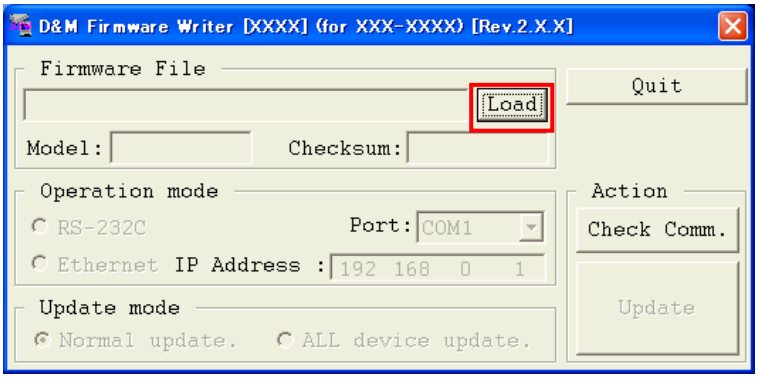
(a) Check the connection of the AV receiver and PC. (refer to "**1.2. Connection of the AV receiver**")

(b) Check the operation mode of the AV receiver. (refer to "**1.3.Turn on the AV receiver**")

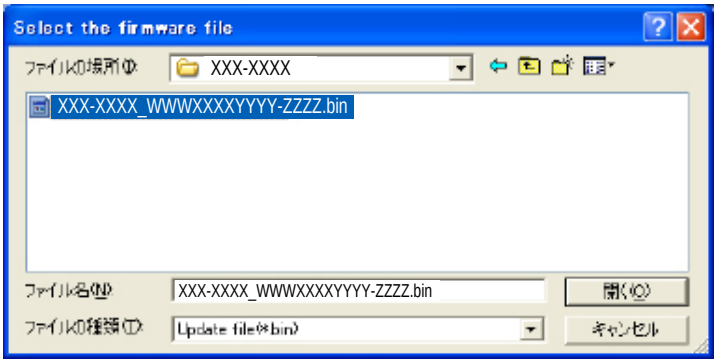
(c) Check the selection of the RS-232C port number of PC.

1.6. Download the firmware

(1) Click the "Load" button.

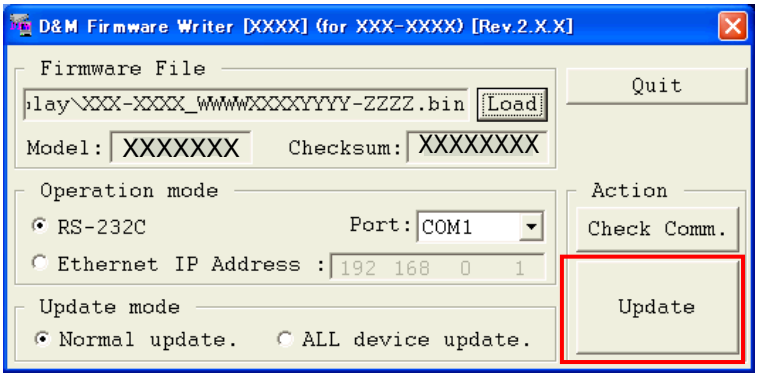


(2) Download the firmware from the specified download source to PC.



1.7. 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. Turn on the AV receiver".

1.8. 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**" (18 page).

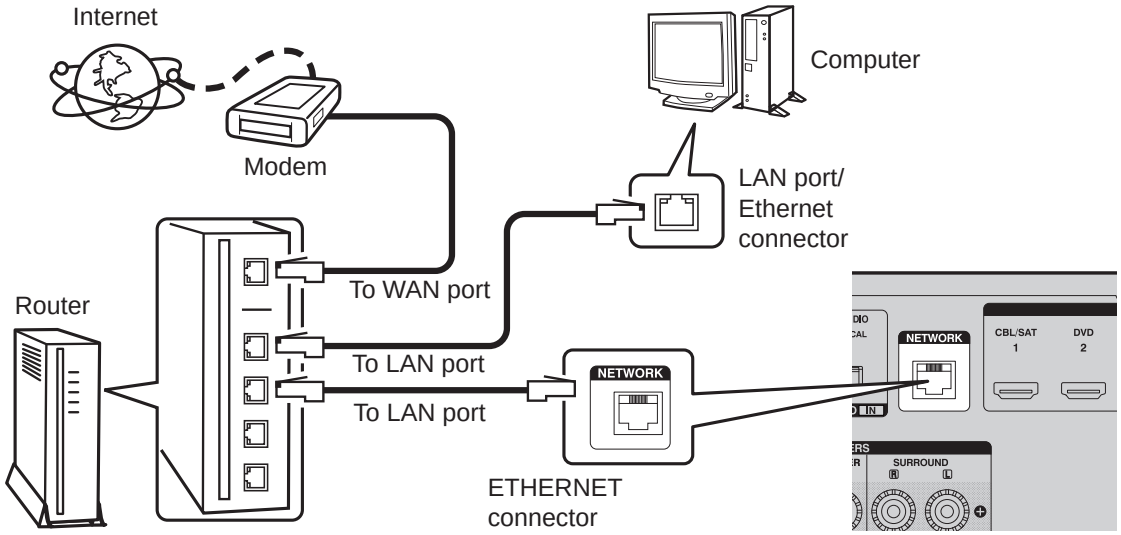
2. How to update by DPMS

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.

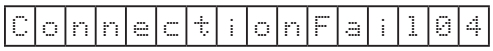
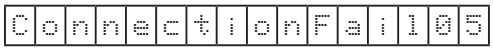
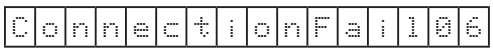
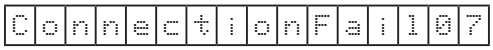
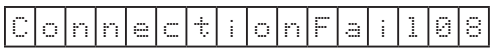
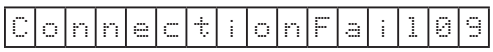
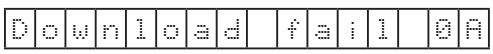
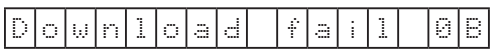
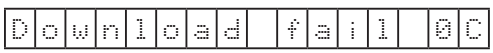
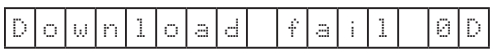
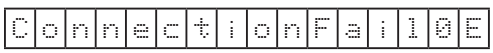
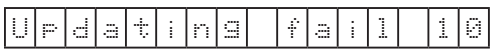
(4) Use the cursor buttons to select "Start", then press the ENTER button.
- During update, the power indicator lights in red and the GUI screen disappears. And an approximately remaining time is indicated on the display.
- When updating is complete the power indicator lights in green and normal status is resumed.

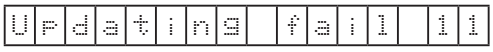
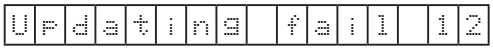
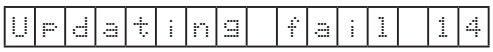
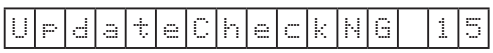
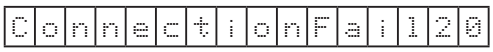
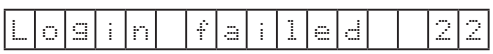
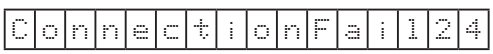
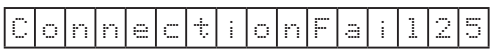
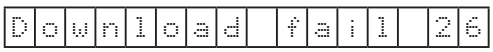
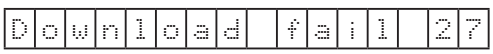
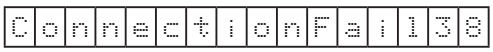
--- Cautions on Firmware Update ---

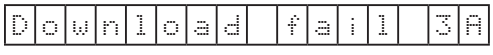
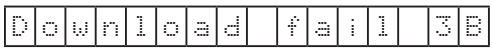
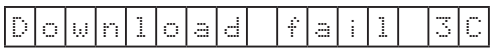
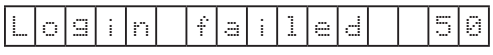
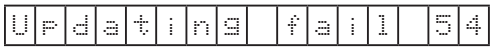
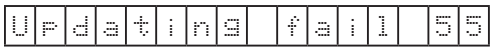
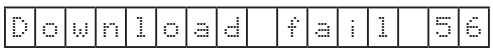
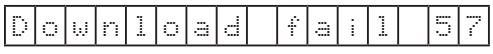
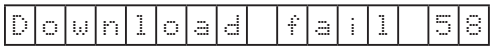
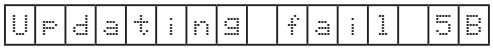
- In order to update the firmware, you must have the correct system requirements and settings for a broadband Internet connection.
- Do not turn off the power until updating is completed.
- Even with a broadband connection to the Internet, approximately 1 hour is required for the updating procedure to 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.

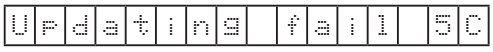
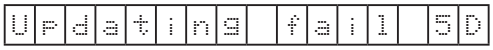
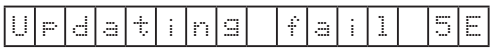
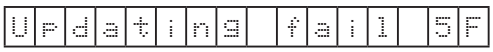
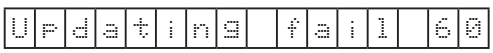
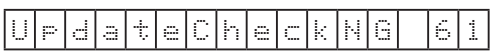
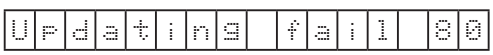
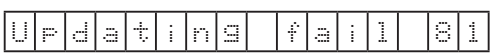
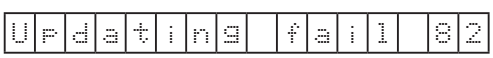
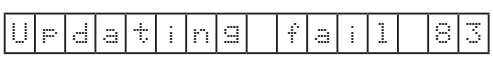
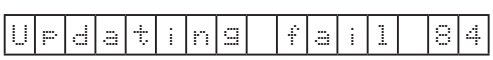
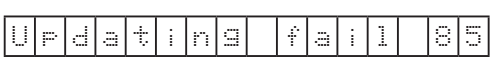
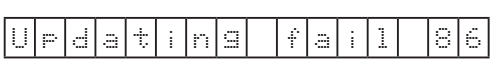
2.3. About the error code

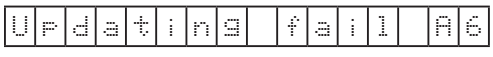
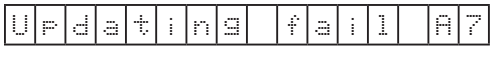
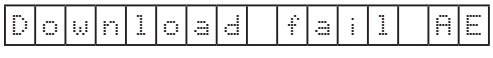
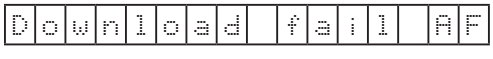
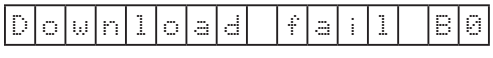
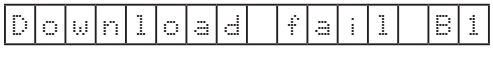
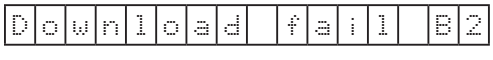
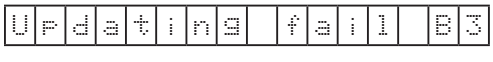
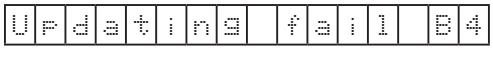
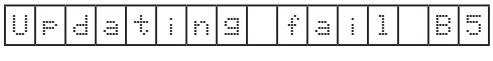
See the table below for error codes, details of faults, and coping strategies when the firmware is updated through DPMS (Denon Product Management Server).

Error Code	Details of Error code	Display	Coping strategies
01	Log-in to DPMS failed.		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.		Carry out the update in an environment that has little network load.
03	Connection to DPMS failed.		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.		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.		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.		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.		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.		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.		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.		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.		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.		Check the network connection. Carry out the update in an environment that has little network load.
0D	Received Package Version is wrong.		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)		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).		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.

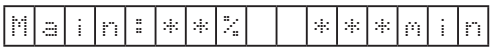
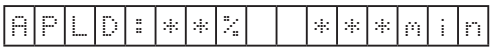
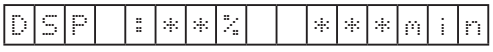
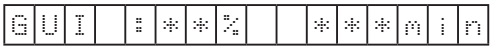
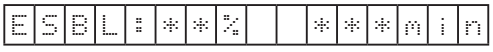
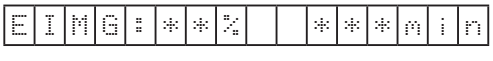
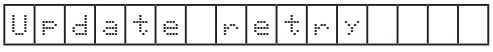
Error Code	Details of Error code	Display	Coping strategies
39	Connection to DPMS timed out when Main CPU was rewritten.		Check the network connection. Carry out the update in an environment that has little network load.
3A	Error (NG) message was received when firmware was downloaded or Main CPU was rewritten.		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).		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).		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).		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.		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).		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).		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).		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)		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.		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)		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)		Reset and update again.
B5	Mode change failure of DM860A. (Application Mode)		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**" (18 page).

3. How to update by USB Memory

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

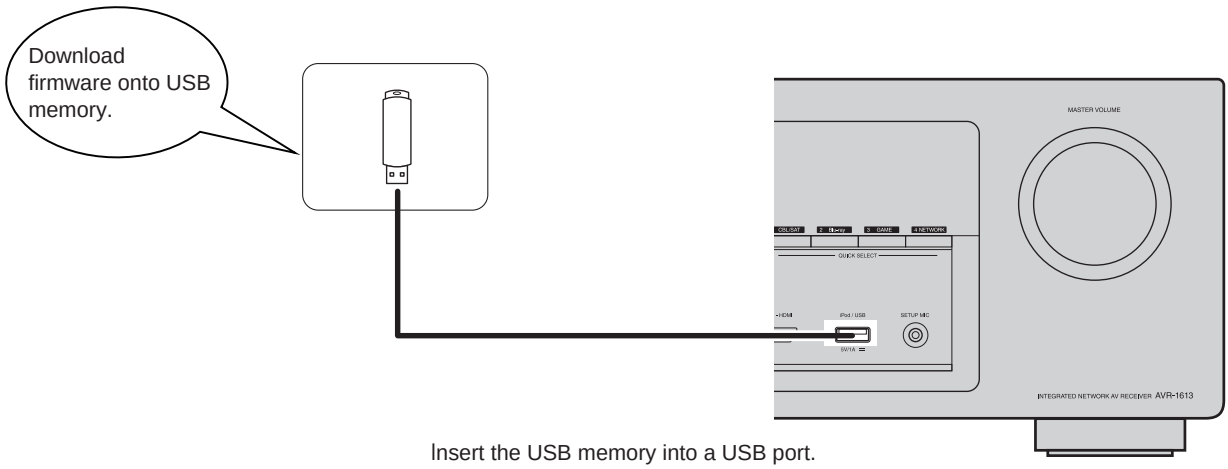
3.1. Connecting to the Network

(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.

Place the USB update file in an appropriate folder. The folder name should be the Product ID based on the Model name/area.

Model Name	Model Area	Product ID
AVR1613	North America (E3)	000100570700
AVR1713	North America (E3)	000100570100
	Europe (E2)	000100570200
	China (E1C)	000100570500
AVR1723	China (E1C)	000100570800

(2) Setting



Insert the USB memory into a USB port.

3.2. Download the firmware

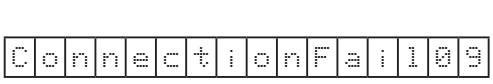
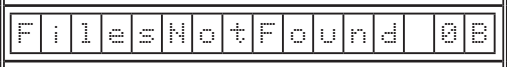
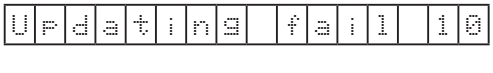
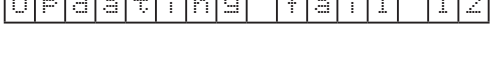
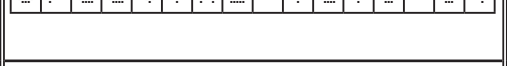
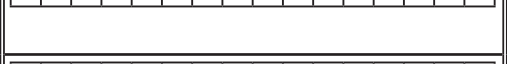
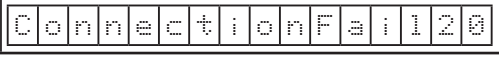
(1) While pressing the "STATUS" button and the "SOURCE SELECT ◀" button at the same time, power on this unit.
(2) "USB Update Start" appears in the FL display.
(3) Press the "ENTER" button with a remote controler. "UpdateFileCheck" appears in the FL display and the firmware update starts.
(4) During the update, the power indicator lights in red and the GUI disappears.
The remaining update time appears FL display on the main unit.
When the update is completed, this unit returns to the normal state.

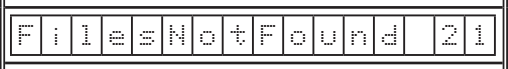
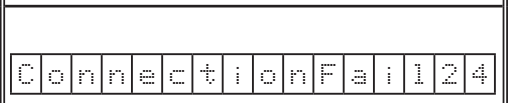
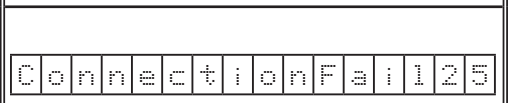
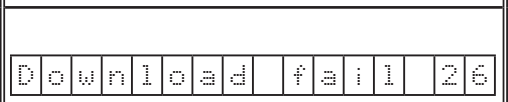
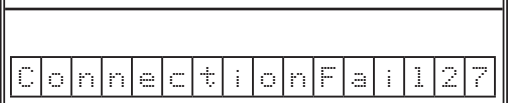
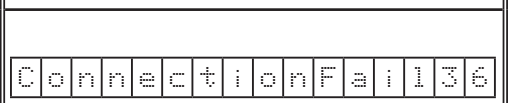
--- Cautions on Firmware Update ---

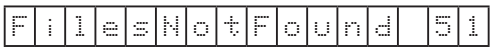
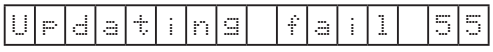
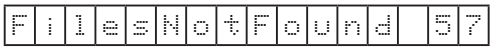
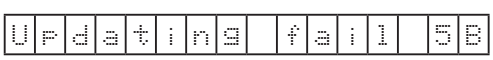
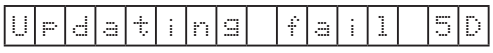
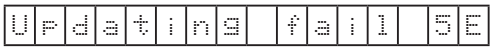
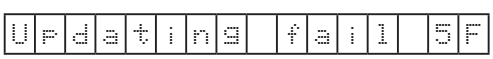
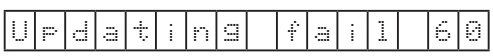
- Do not remove a USB memory until updating is completed.
- Do not turn off the power until updating is completed.
  Approximately 1 hour is required for the updating procedure to be completed.
  Once updating starts, normal operations on the this unit cannot be performed until updating is completed. 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.

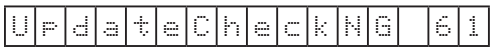
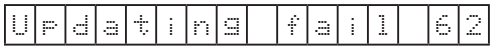
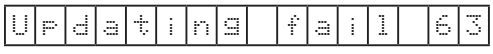
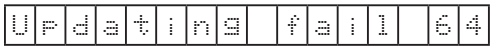
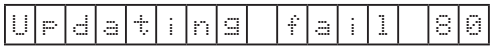
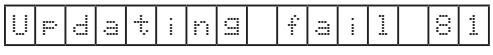
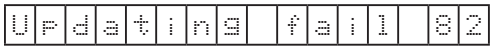
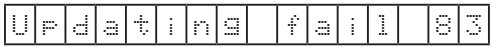
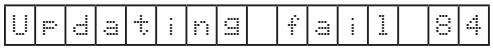
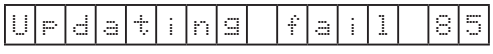
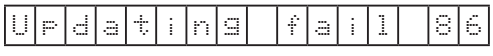
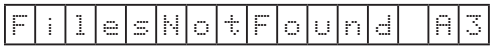
3.3. About the error code

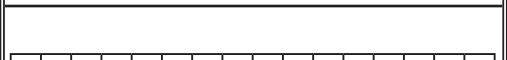
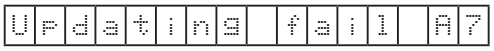
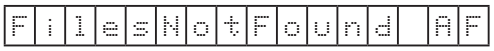
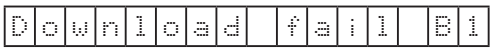
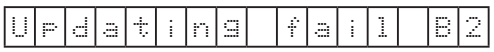
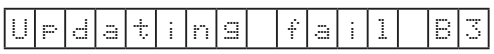
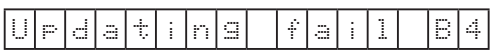
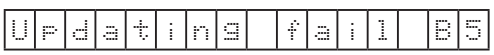
See the table below for error codes and details of faults when the firmware is updated through USB memory.

Error Code	Details of Error code	Display	Coping strategies
01	Unable to detect USB.		Disconnect and connect the USB memory.
02	No FirmwareFile in USB.		Make sure that the FirmwareFile is in the USB memory.
03	FirmwareFile in USB for unsupported Model name/area		Check the supported Model name/area for the FirmwareFile.
04	Failed to obtain individual Firmware information.		Start the USB Update again.
05	TimeOut while obtaining individual Firmware information		Start the USB Update again.
06	Failed to obtain entire Firmware information.		Start the USB Update again.
07	TimeOut while obtaining entire Firmware information		Start the USB Update again.
08	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.
09	TimeOut while obtaining Firmware information		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the ⏻ button for five seconds.
0A	Unable to detect USB for FirmwareDownload.		Disconnect and connect the USB memory.
0B	No FirmwareFile for FirmwareDownload.		Disconnect and connect the USB memory.
0D	Received value with invalid PackageVersion.		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).		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).		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).		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.		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.		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).		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.		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.

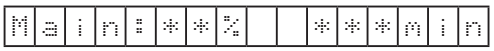
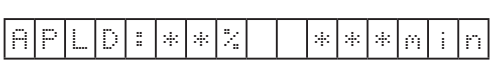
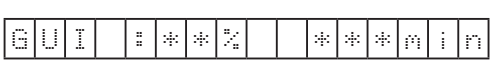
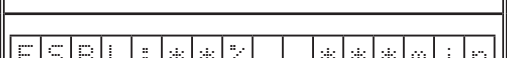
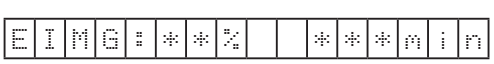
--- Cautions on Firmware Update ---

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**" (18 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".

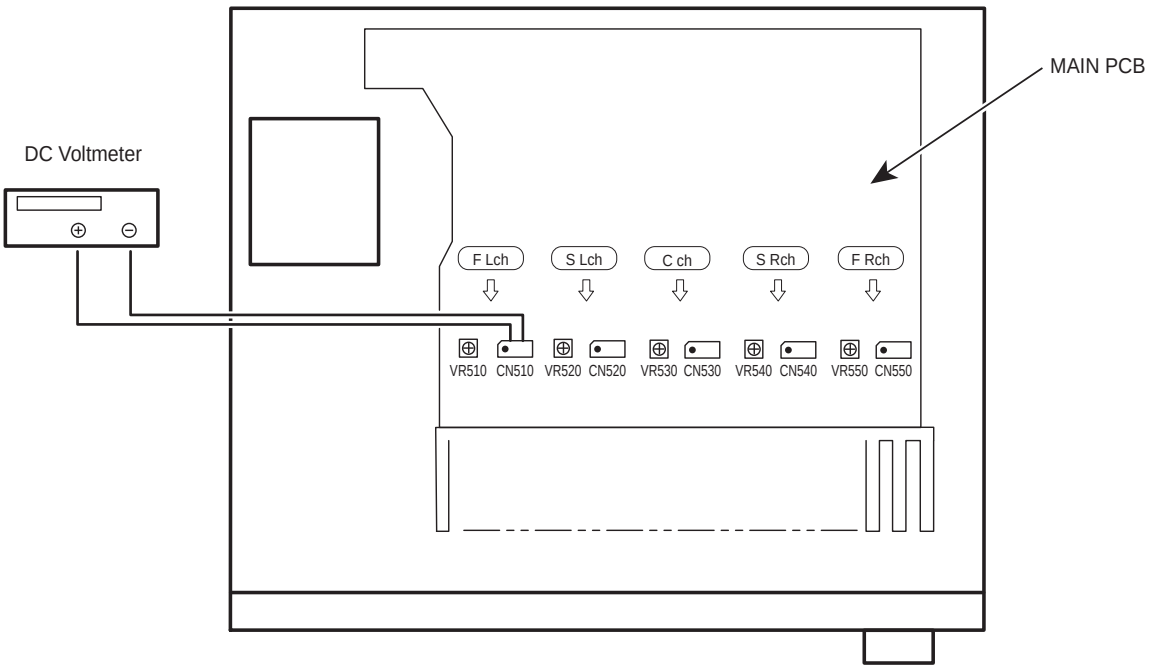
(4) Presetting.

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.



This unit is equipped with a digital signal processing circuit that lets you play program sources in the sound mode to achieve the same sense of presence as in a movie theater.

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 *2	Dynamic Comp. *3	Low Frequency *4	Delay Time	Effect Level	Room Size
DIRECT/PURE DIRECT (2channel)*1	○			◎*5		○	○				
DIRECT/PURE DIRECT (Multi-channel)*1	○	◎	◎	◎		○	○	○			
STEREO	○			◎		○	○	○			
MULTI CH IN	○	◎	◎	◎				○			
DOLBY PRO LOGIC II	○	◎	◎	◎	○*6	○	○				
DOLBY PRO LOGIC	○	◎	◎	◎	○	○	○				
DOLBY DIGITAL	○	◎	◎	◎			○	○			
DOLBY DIGITAL Plus	○	◎	◎	◎			○	○			
DOLBY TrueHD	○	◎	◎	◎		○	○	○			
DTS NEO:6	○	◎	◎	◎	○*7	○	○				
DTS SURROUND	○	◎	◎	◎			○	○			
DTS 96/24	○	◎	◎	◎			○	○			
DTS-HD	○	◎	◎	◎			○	○			
DTS Express	○	◎	◎	◎			○	○			
MULTI CH STEREO	○	◎	◎	◎		○	○	○			
ROCK ARENA	○	◎	◎	◎		○	○	○		○	○
JAZZ CLUB	○	◎	◎	◎		○	○	○		○	○
MONO MOVIE	○	◎	◎	◎		○	○	○		○	○
VIDEO GAME	○	◎	◎	◎		○	○	○		○	○
MATRIX	○	◎	◎	◎		○	○	○	○		
VIRTUAL	○			◎		○	○	○			

*1 During playback in PURE DIRECT mode, the surround parameters are the same as in DIRECT mode.
*2 This item can be selected when a Dolby TrueHD signal is played.
*3 This item can be selected when a Dolby Digital or DTS signal is played.
*4 This item can be selected when a Dolby Digital or DTS signal or DVD-Audio is played.
*5 Only when "Subwoofer Mode" is set to "LFE+Main", sound is output from the subwoofer.
*6 This setting is possible when the sound mode is "PLII Cinema".
*7 This setting is possible when the sound mode is "DTS NEO:6 Cinema".

Sound Mode	Surr.Parameter				Tone *8	Audyssey *9			Restorer *11
	PRO LOGIC II Music mode only			NEO:6 Music mode only					
	Panorama	Dimension	Center Width	Center Image		MultEQ® XT	Dynamic EQ® *10	Dynamic Volume® *10	
DIRECT/PURE DIRECT (2channel)*1									
DIRECT/PURE DIRECT (Multi-channel)*1									
STEREO					○	○	○	○	○
MULTI CH IN					○	○	○	○	
DOLBY PRO LOGIC II	○	○	○		○	○	○	○	○
DOLBY PRO LOGIC	○	○	○		○	○	○	○	○
DOLBY DIGITAL					○	○	○	○	
DOLBY DIGITAL Plus					○	○	○	○	
DOLBY TrueHD					○	○	○	○	
DTS NEO:6				○	○	○	○	○	○
DTS SURROUND					○	○	○	○	
DTS 96/24					○	○	○	○	
DTS-HD					○	○	○	○	
DTS Express					○	○	○	○	
MULTI CH STEREO					○	○	○	○	○
ROCK ARENA					○*12	○	○	○	○
JAZZ CLUB					○	○	○	○	○
MONO MOVIE					○	○	○	○	○
VIDEO GAME					○	○	○	○	○
MATRIX					○	○	○	○	○
VIRTUAL					○	○	○	○	○

*1 During playback in PURE DIRECT mode, the surround parameters are the same as in DIRECT mode.
*8 This item cannot be set when "Dynamic EQ®" is set to "On".
*9 For HD Audio whose sampling frequency of an input signal is more than 96 kHz, this sound parameter cannot be set.
*10 This item cannot be set when "MultEQ® XT" is set to "Off" or "Manual EQ".
*11 This item can be set when the input signal is analog, PCM 48 kHz or 44.1 kHz.
*12 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

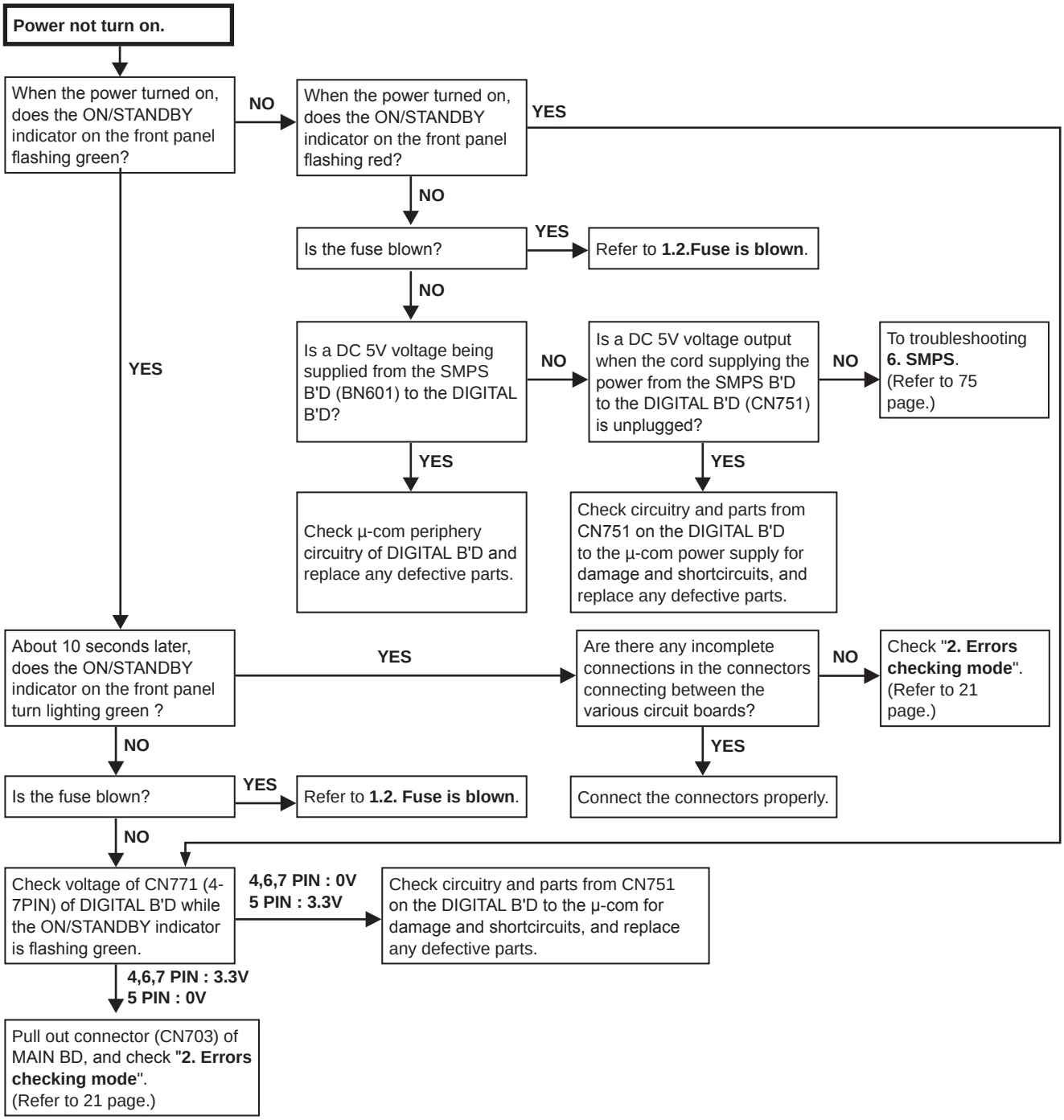
● This indicates the default sound mode.
○ This indicates the selectable sound mode.

Sound Mode	NOTE	Input signal types and formats															
		ANALOG	PCM		DTS-HD		DTS					DOLBY		DOLBY DIGITAL			
			PCM (multi ch)	PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1ch)	DOLBY DIGITAL (2ch)
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		○		○													○
DOLBY PRO LOGIC		○		○													○
MULTI CH IN																	
MULTI CH IN			●														
DIRECT																	
DIRECT		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
PURE DIRECT																	
PURE DIRECT		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
DSP SIMULATION																	
MULTI CH STEREO		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ROCK ARENA		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
JAZZ CLUB		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MONO MOVIE		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VIDEO GAME		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MATRIX		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VIRTUAL		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
STEREO																	
STEREO		●	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○

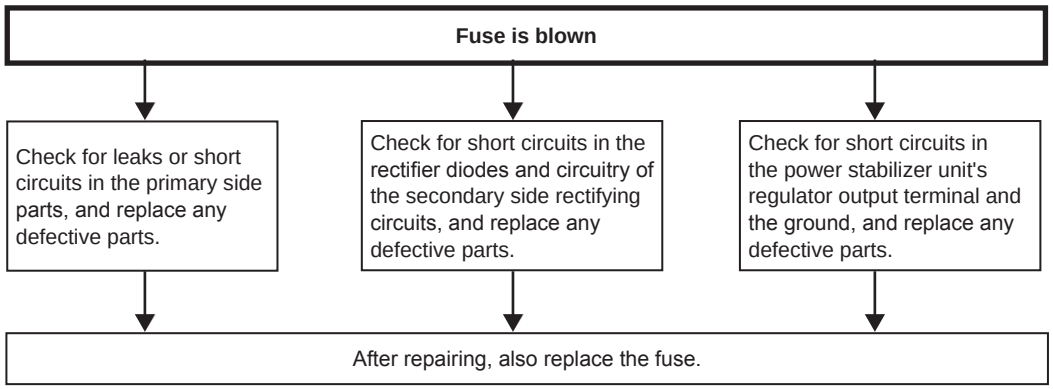
TROUBLE SHOOTING

1. POWER

1.1. Power not turn on



1.2. Fuse is blown



2. Analog video

MONITOR OUT(CVBS) Output NG

Check ±5VV
+5VV : C9007
-5VV : C9009

NO → The power supply circuitry is defective.

YES

Check output
Output V : IC901-1pin

NO → Check input
(When the SAT/CBL function)
Vin3 : IC901-7pin

NO → Check pattern from JK901 to IC901 and check cable between AMP and player or check player .

YES

Check cable between AMP and monitor or Check monitor.

YES

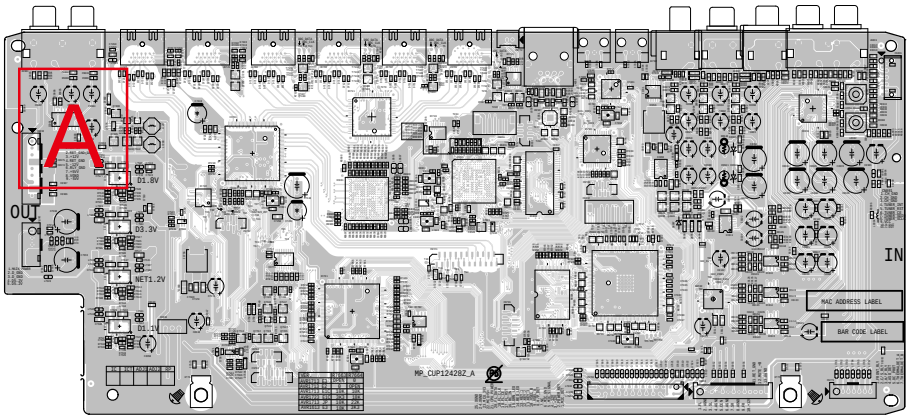
Check set value of IC.
SW2 : IC901-10pin : 3.3V : OK
SW5 : IC901-2pin : 3.3V : OK

NO → CPU(IC761) flaw.

YES

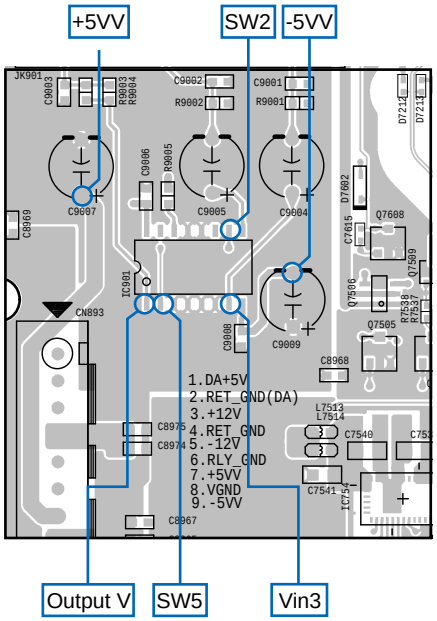
The IC901 and surrounding circuitry is defective.

VIDEO test point



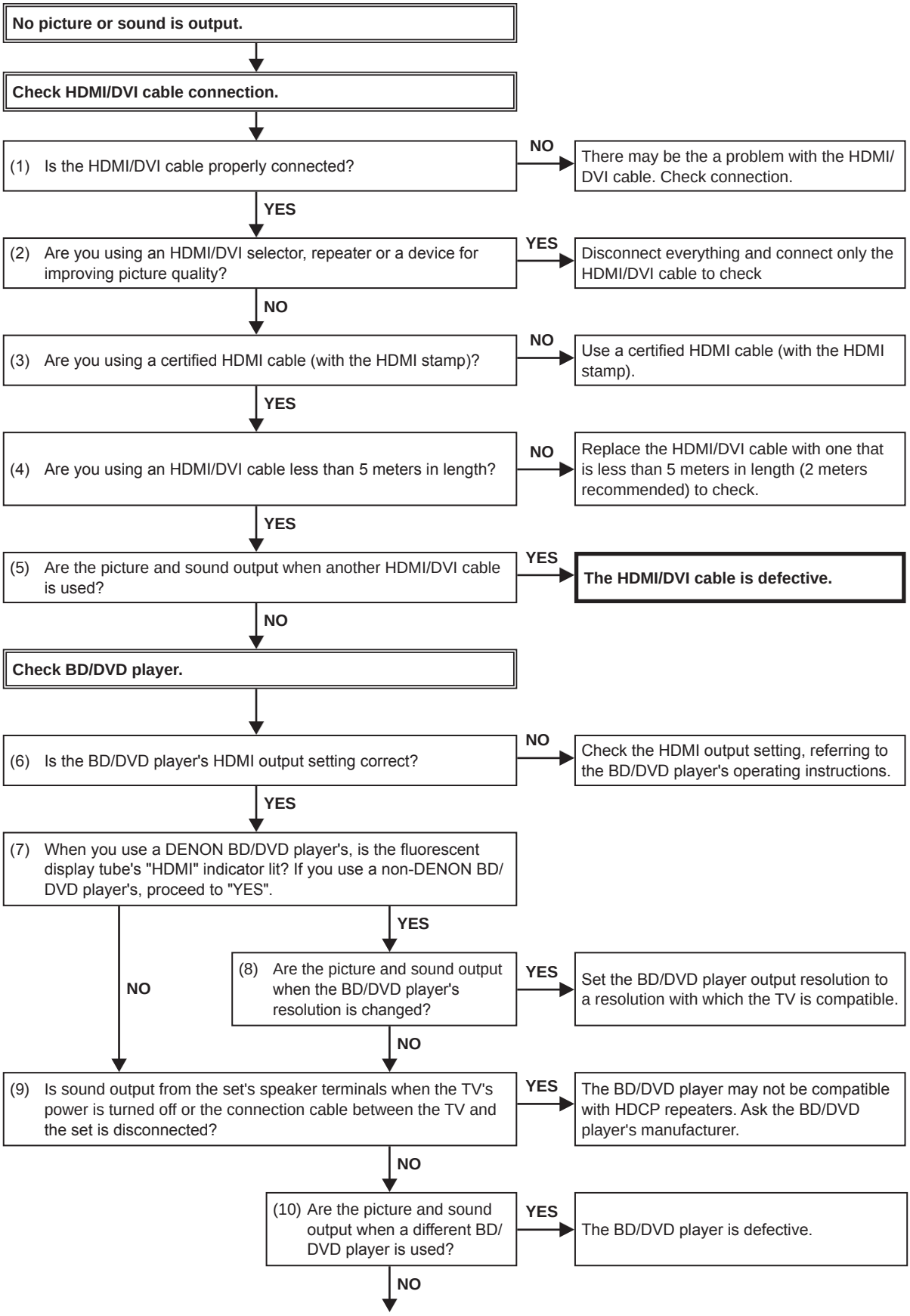
DIGITAL (COMPONENT SIDE)

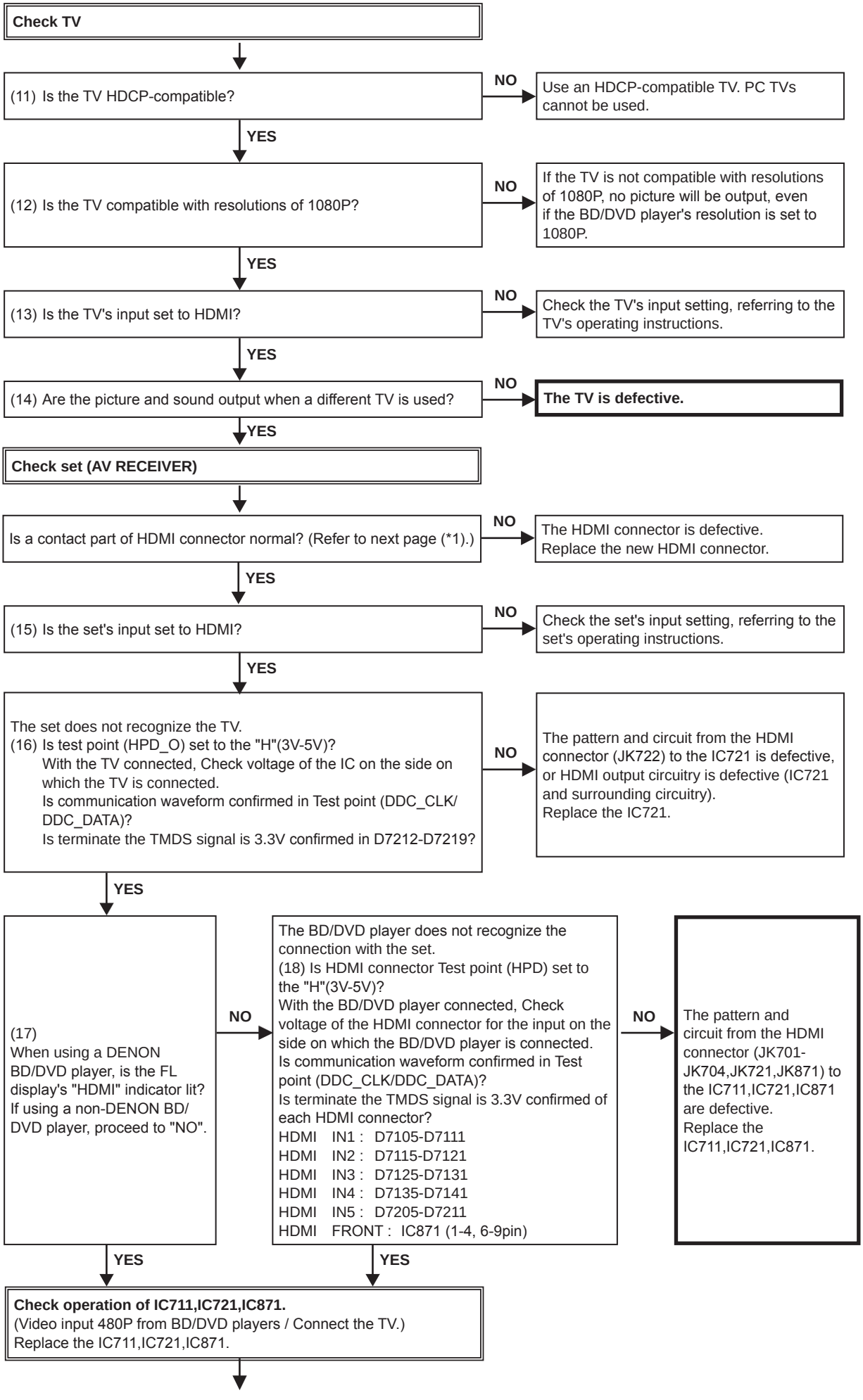
Detail A



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)
Is a contact part of HDMI connector normal? (Refer to next page (*1).)
NO
The HDMI connector is defective. Replace the new HDMI connector.
YES
(15) Is the set's input set to HDMI?
NO
Check the set's input setting, referring to the set's operating instructions.
YES
The set does not recognize the TV.
(16) Is test point (HPD_O) set to the "H"(3V-5V)?
With the TV connected, Check voltage of the IC on the side on which the TV is connected.
Is communication waveform confirmed in Test point (DDC_CLK/DDC_DATA)?
Is terminate the TMDS signal is 3.3V confirmed in D7212-D7219?
NO
The pattern and circuit from the HDMI connector (JK722) to the IC721 is defective, or HDMI output circuitry is defective (IC721 and surrounding circuitry).
Replace the IC721.
YES
(17)
When using a DENON BD/DVD player, is the FL display's "HDMI" indicator lit?
If using a non-DENON BD/DVD player, proceed to "NO".
NO
The BD/DVD player does not recognize the connection with the set.
(18) Is HDMI connector Test point (HPD) set to the "H"(3V-5V)?
With the BD/DVD player connected, Check voltage of the HDMI connector for the input on the side on which the BD/DVD player is connected.
Is communication waveform confirmed in Test point (DDC_CLK/DDC_DATA)?
Is terminate the TMDS signal is 3.3V confirmed of each HDMI connector?
HDMI IN1 : D7105-D7111
HDMI IN2 : D7115-D7121
HDMI IN3 : D7125-D7131
HDMI IN4 : D7135-D7141
HDMI IN5 : D7205-D7211
HDMI FRONT : IC871 (1-4, 6-9pin)
NO
The pattern and circuit from the HDMI connector (JK701-JK704,JK721,JK871) to the IC711,IC721,IC871 are defective.
Replace the IC711,IC721,IC871.
YES
YES
Check operation of IC711,IC721,IC871.
(Video input 480P from BD/DVD players / Connect the TV.)
Replace the IC711,IC721,IC871.

(19) Check power supply.
Are 1.8V or 3.3V supplied to IC721 (each power supply pin)?

NO → The power supply circuitry is defective.

YES

(20) Check xtal oscillator.
Is there 28.6363MHz oscillation of X7201?

NO → The X7201 or IC721 is defective.
Replace the new parts.

YES

(21) Check RESET.
Is RESET waveform confirmed at IC721 (97pin)? (If reference waveform, proceed to "YES".)

NO → The RESET pattern or IC721 is defective.
Replace the new parts.

YES

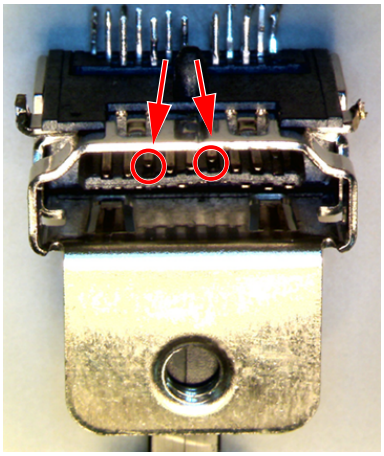
(22) Check control signal(I2C).
Is waveform confirmed at Test point (SDA/SCL). (If not continued to " L", proceed to "YES".)

NO → The SDATA/SCL line pattern is defective.

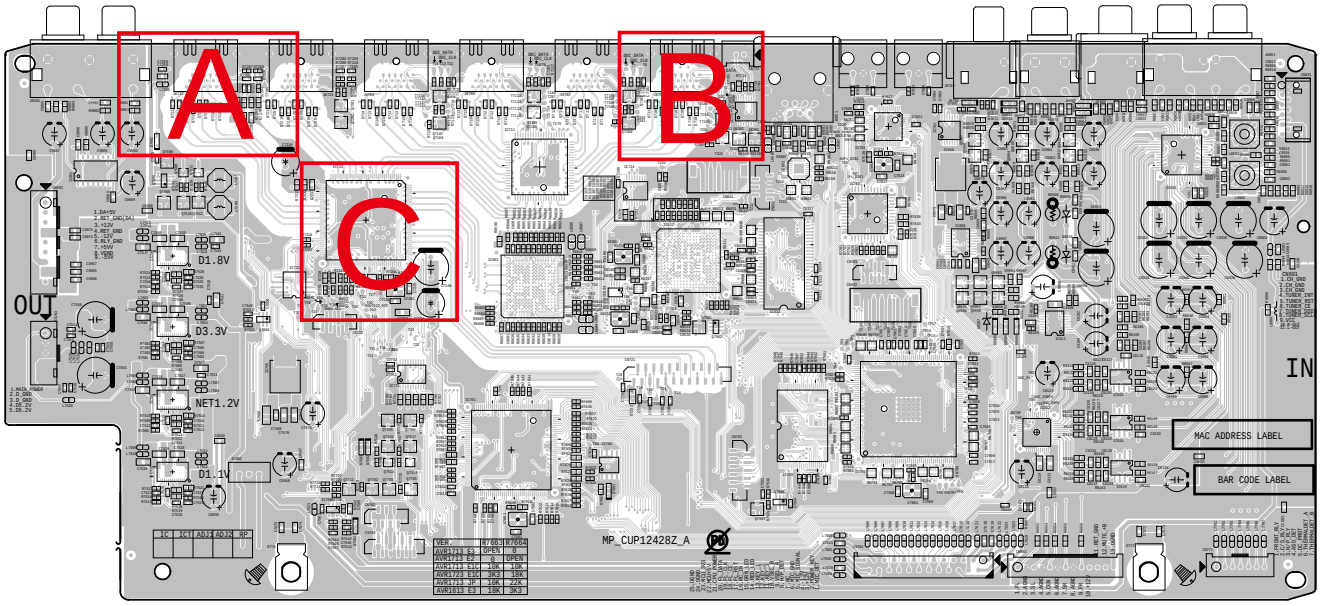
YES

HDMI output circuitry is defective (IC721 and surrounding circuitry).
Replace the IC721.

(*1) Abnormal sample of HDMI connector : The internal terminal has bent.

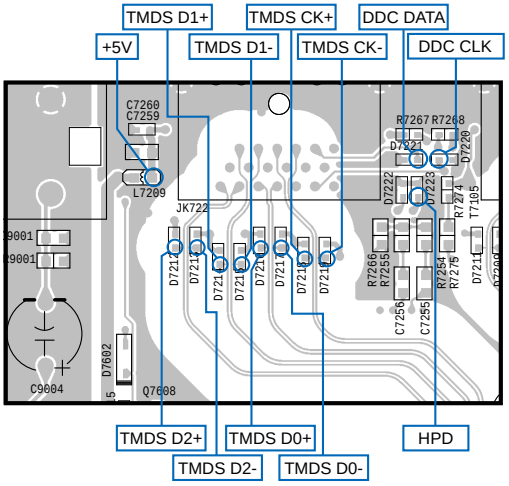


3.2. HDMI test point and waveforms

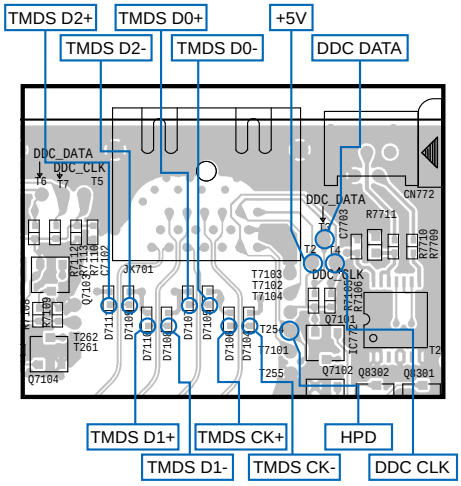


DIGITAL (COMPONENT SIDE)

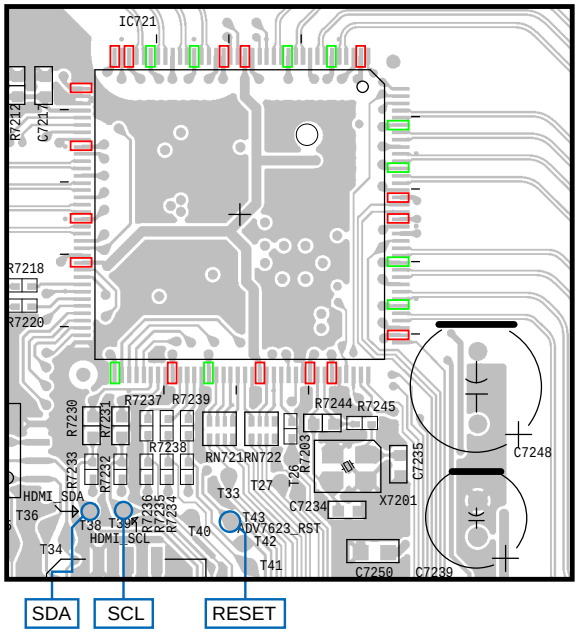
Detail A



Detail B



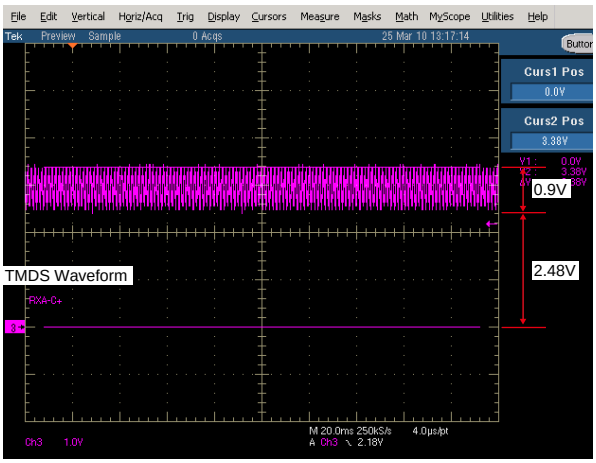
Detail C

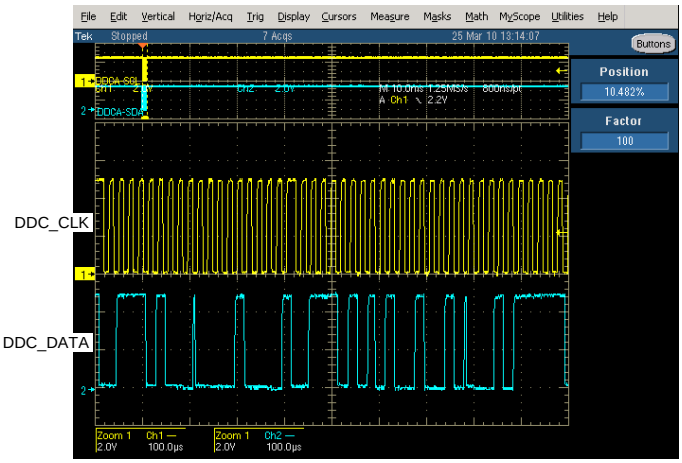


▯:A
▯:B

A: 1.8V	2,18,21,34,36,37,45,55,61,81,93,100,103,110,126,129 pin
B: 3.3V	6,12,25,31,73,86,114,120,133,139 pin

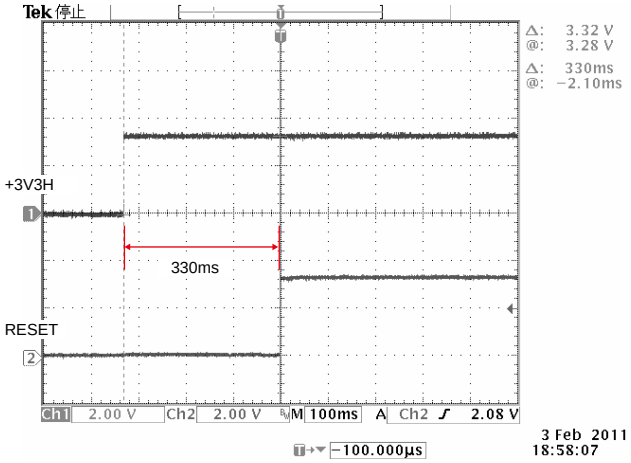
DDC_CLK/DDC_DATA/TMDS : Check items (16)/(18)



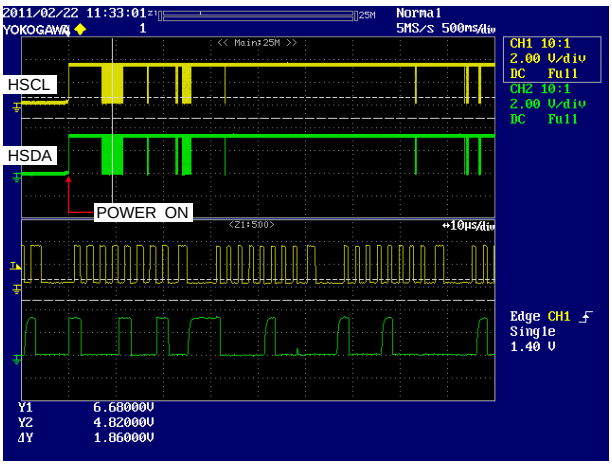


Timing waveform illustration from the start of +3V3H to when reset is released :

Check items (21)



Controlled waveform(I2C), when power is turned on : Check items (22)



4. AUDIO

4.1. AUDIO CHECK

Audio output NG. Refer to "**Audio Check PASS**" (77 page).

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.

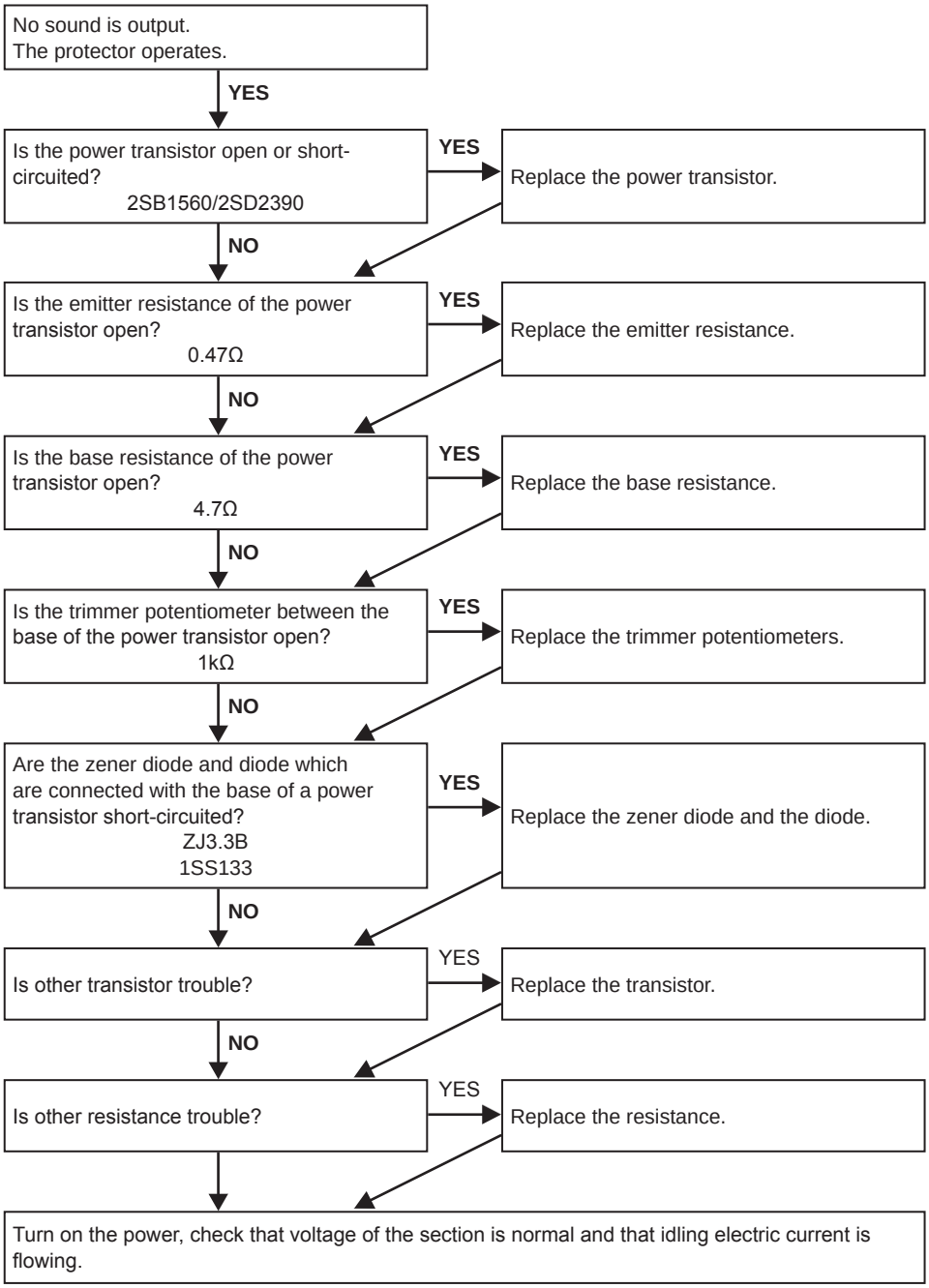
NO

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)

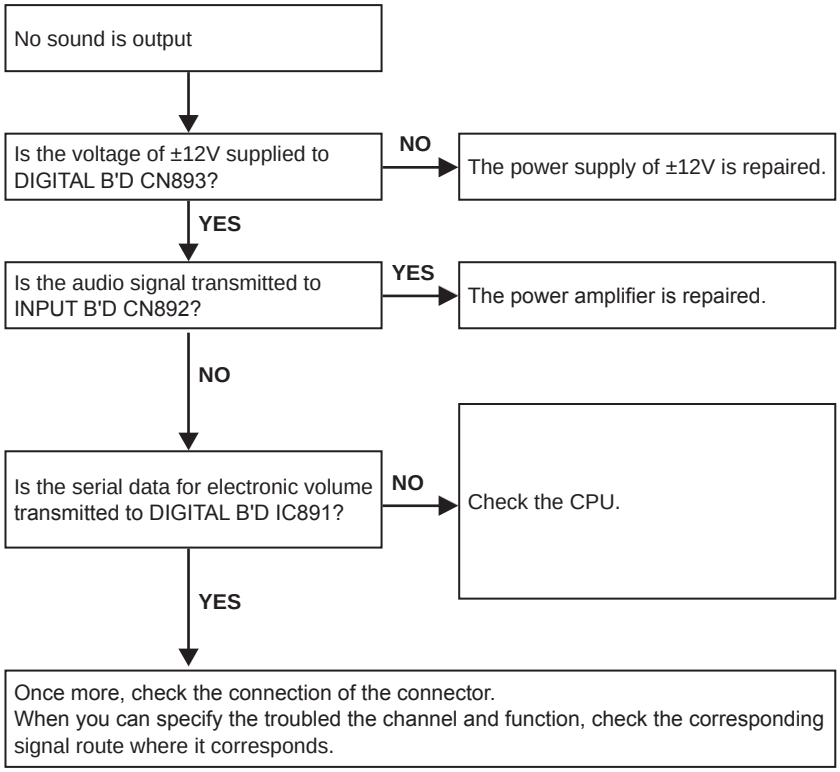
YES → Check Digital audio BLOCK

NO → Check HDMI BLOCK.

4.2. Power AMP (MAIN UNIT)

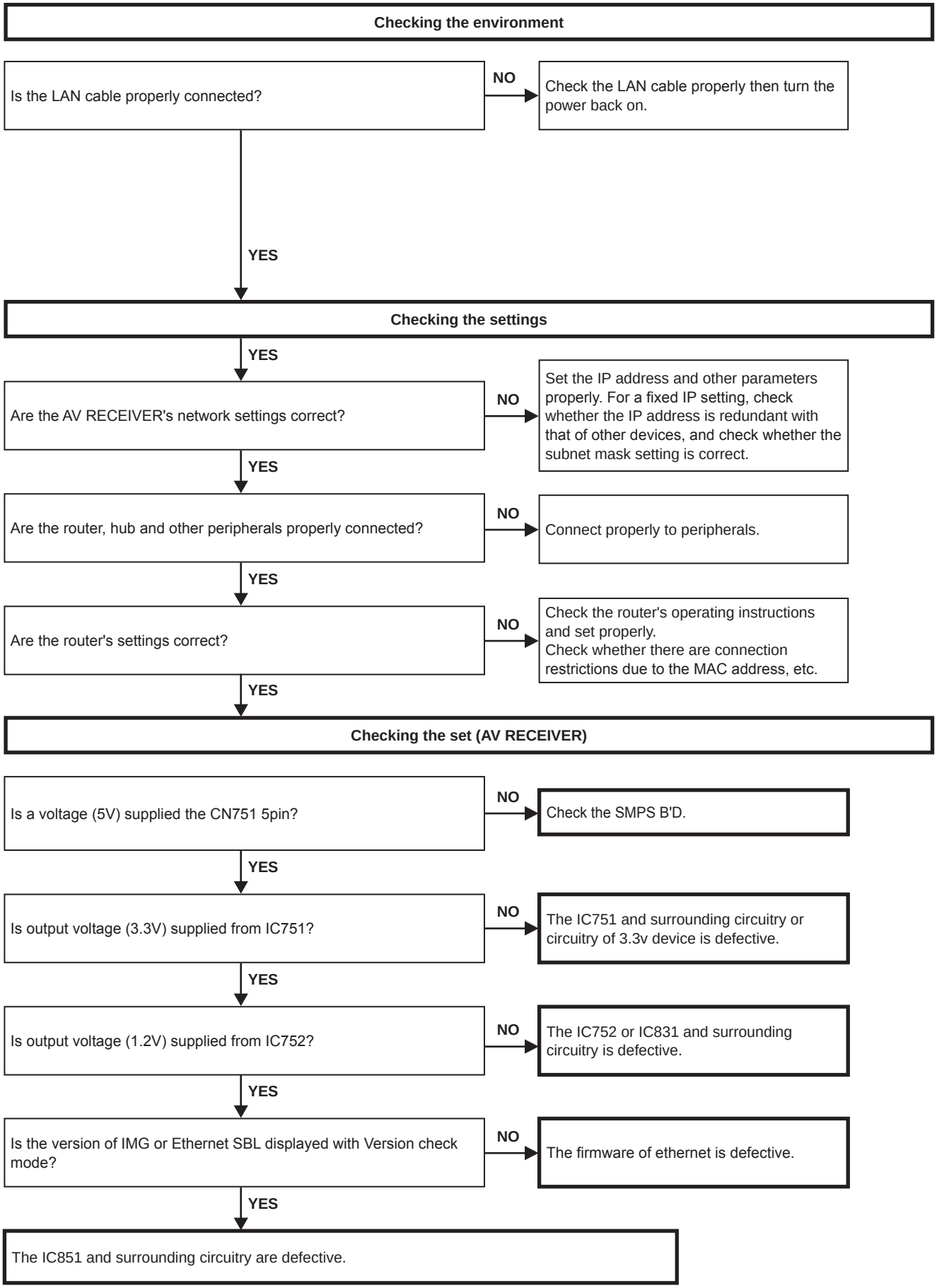


4.3. Analog audio

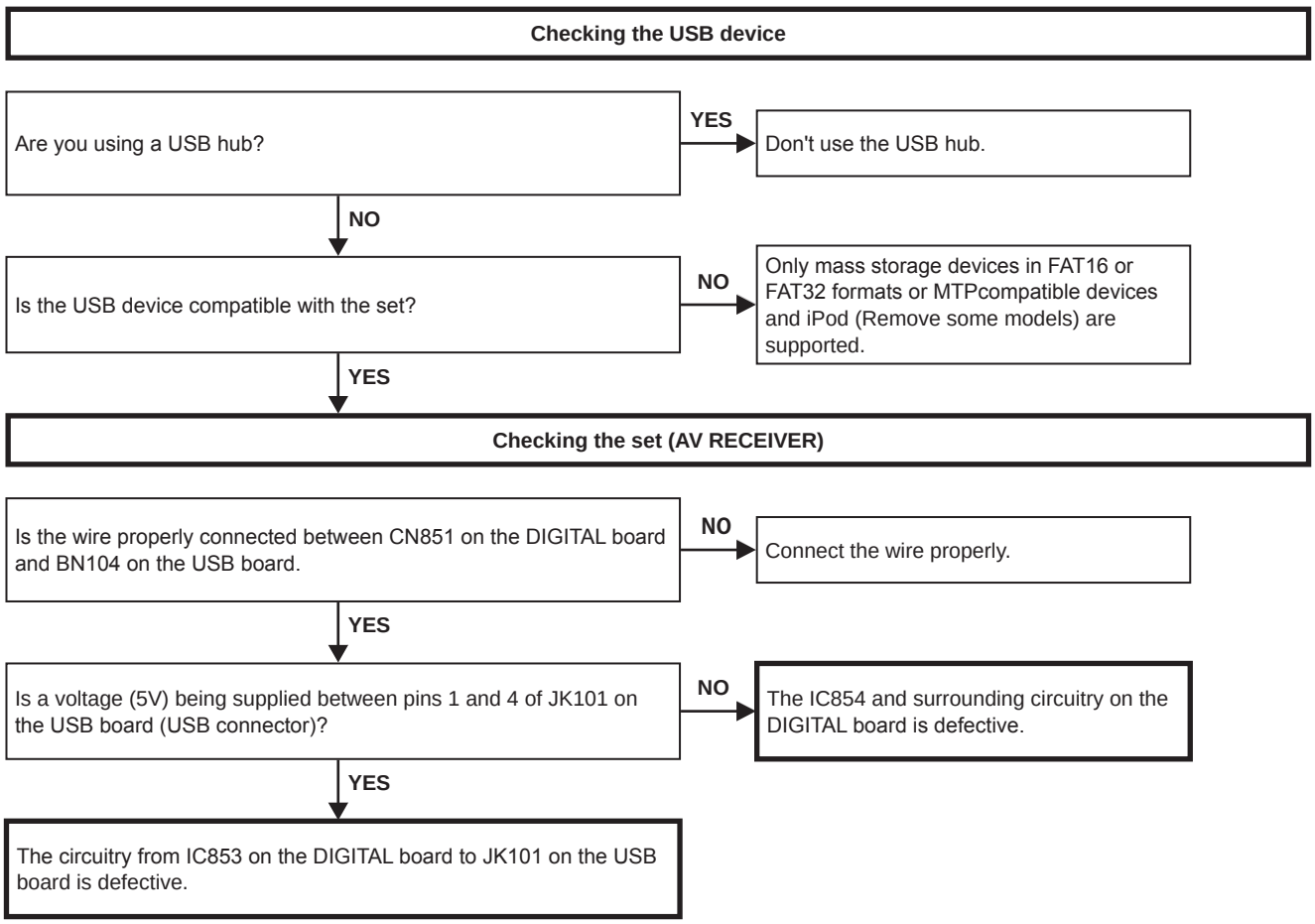


5. Network/USB

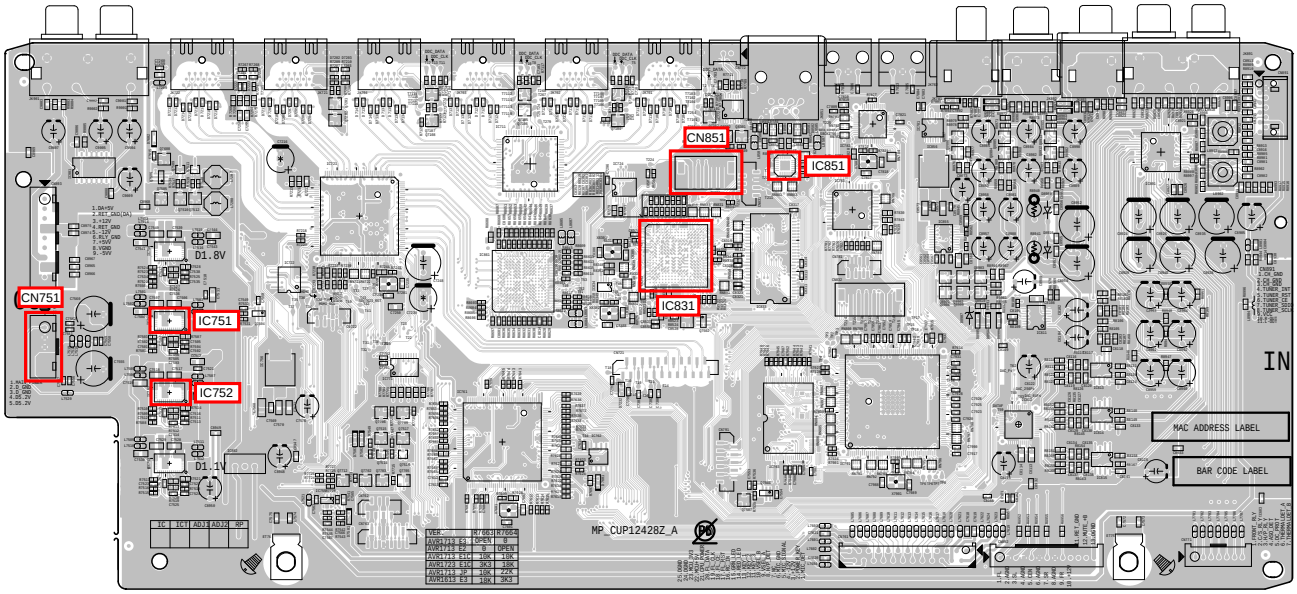
5.1. Cannot connect to network



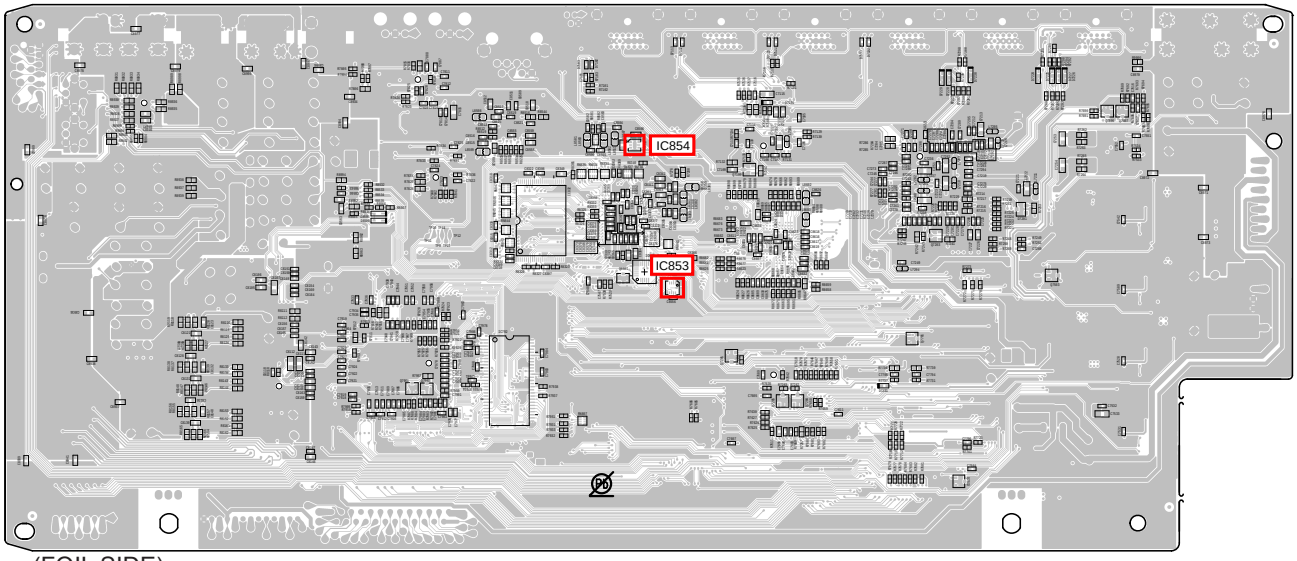
5.2. USB device is not recognized



HDMI test point

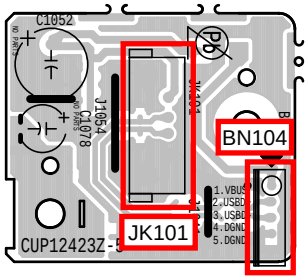


(COMPONENT SIDE)



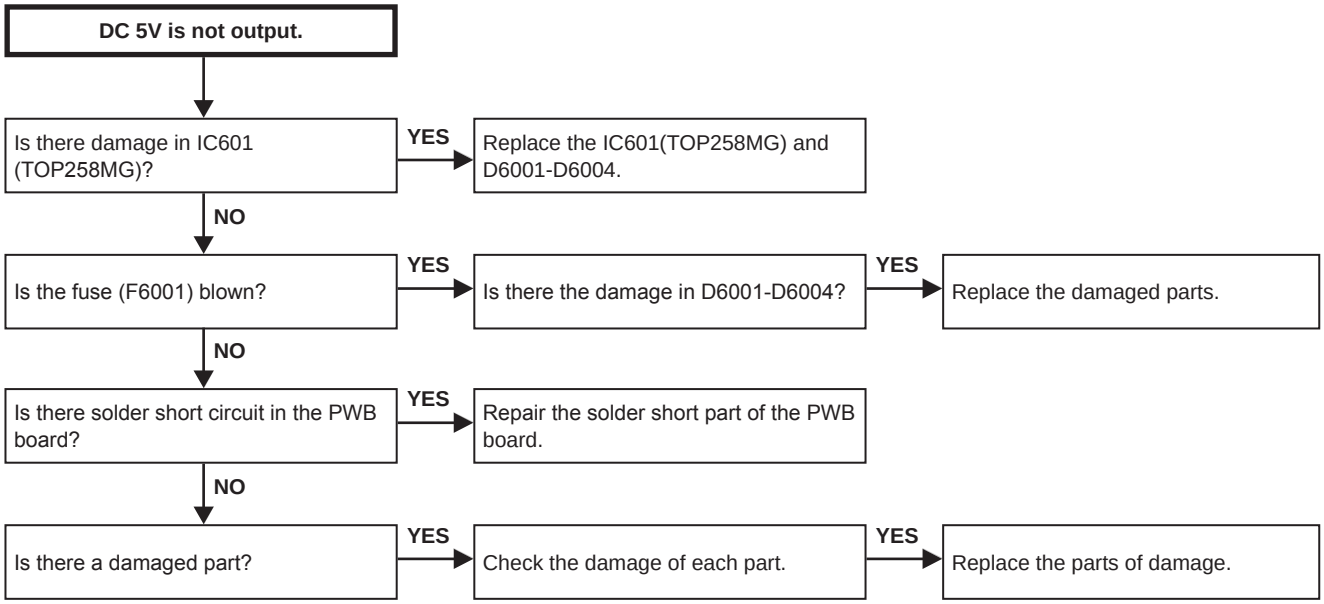
(FOIL SIDE)

USB test point

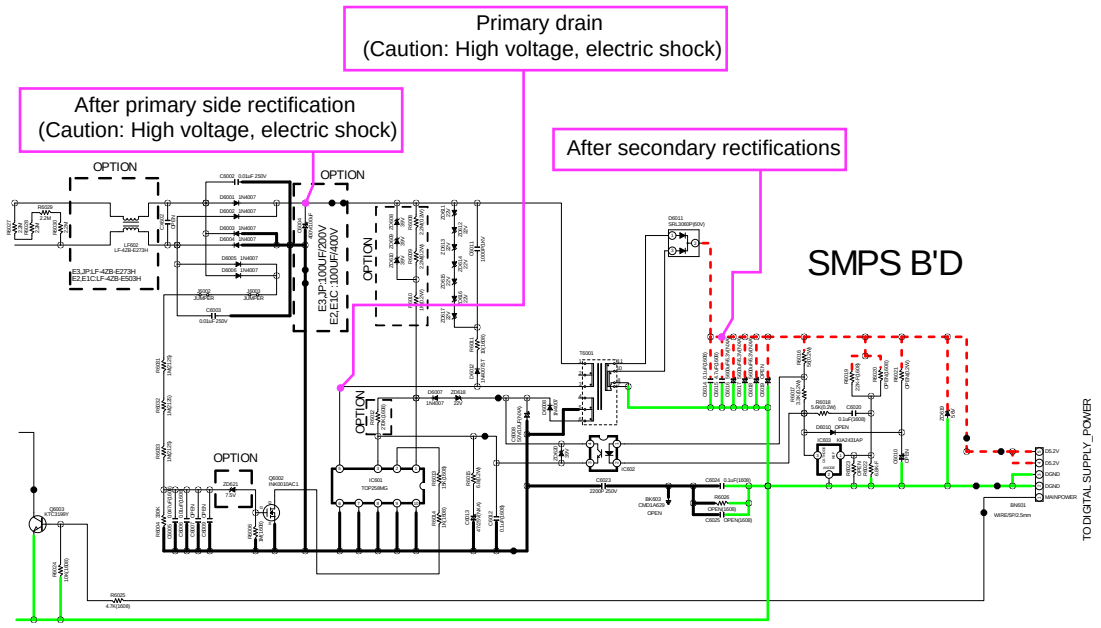


(COMPONENT SIDE)

6. SMPS

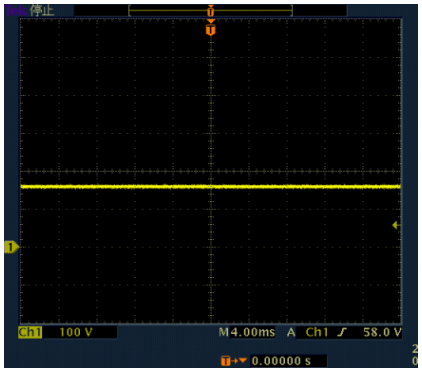

DC 5V is not output.
Is there damage in IC601 (TOP258MG)?
YES
Replace the IC601(TOP258MG) and D6001-D6004.
NO
Is the fuse (F6001) blown?
YES
Is there the damage in D6001-D6004?
YES
Replace the damaged parts.
NO
Is there solder short circuit in the PWB board?
YES
Repair the solder short part of the PWB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

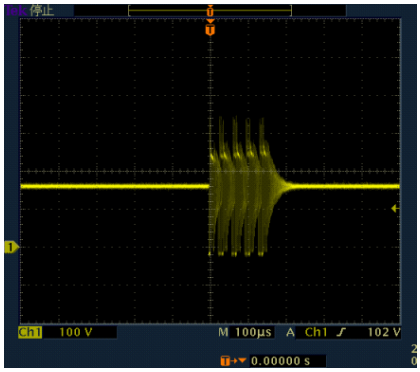


SMPS unit
(Unloaded)

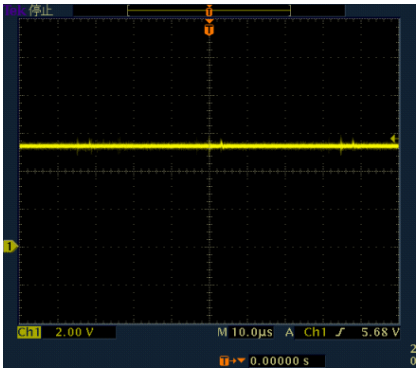
A



B

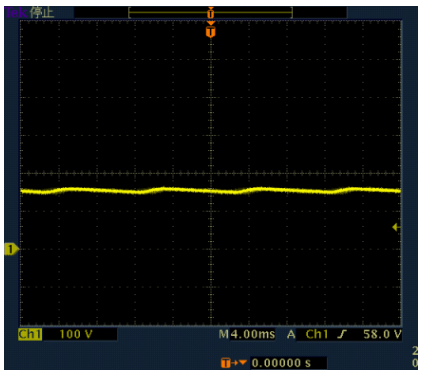


C

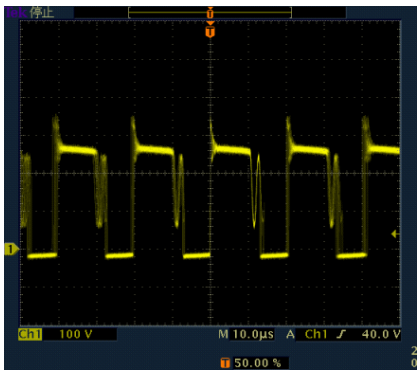


Set

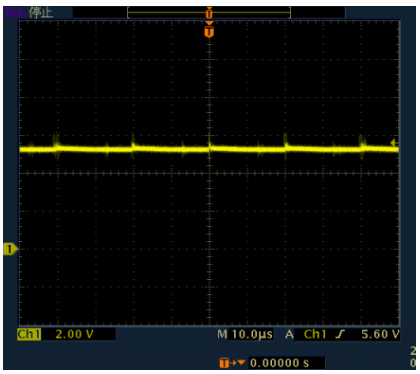
A



B

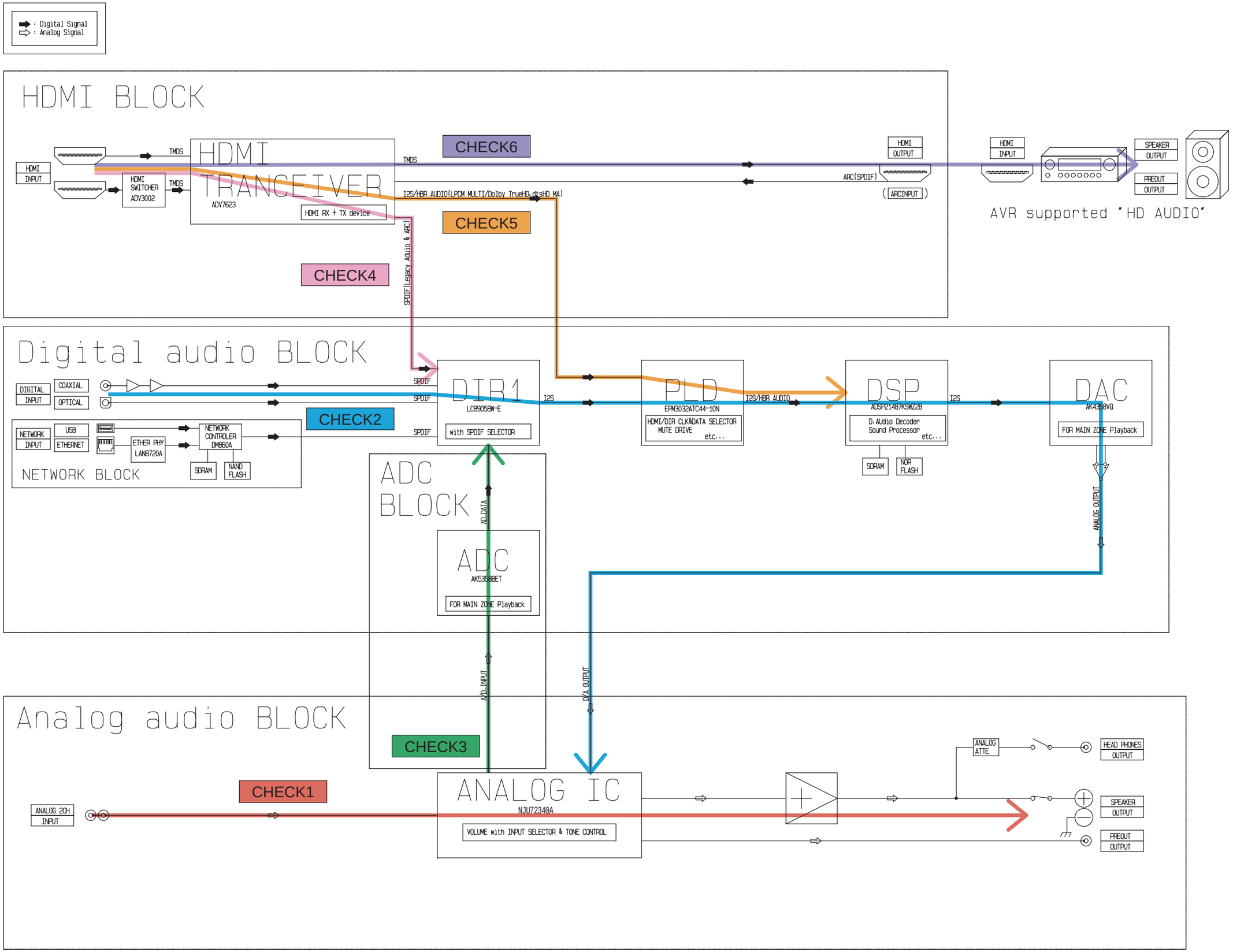


C



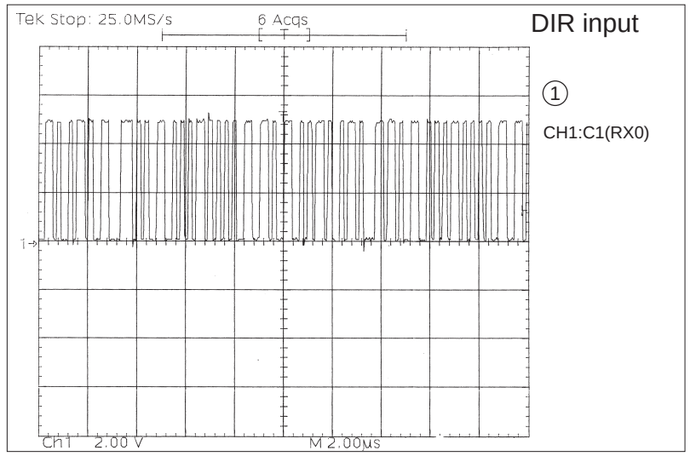
Audio Check PASS

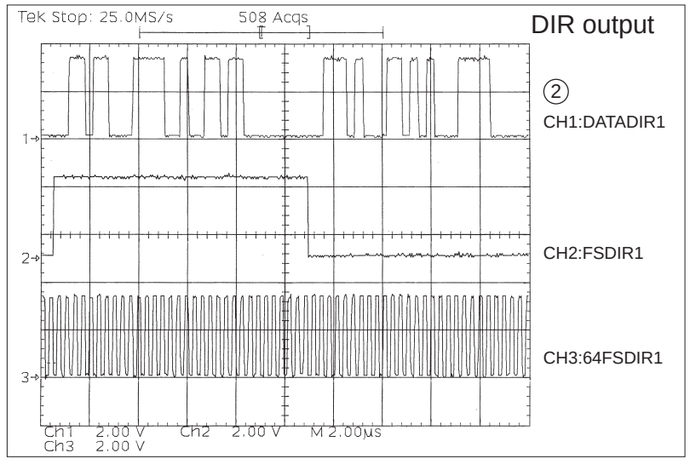
Refer to troubleshooting "**4.1. AUDIO CHECK**"(69 page).

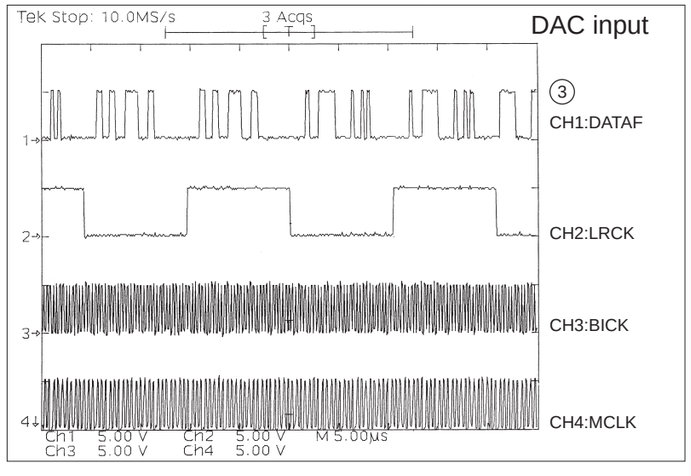


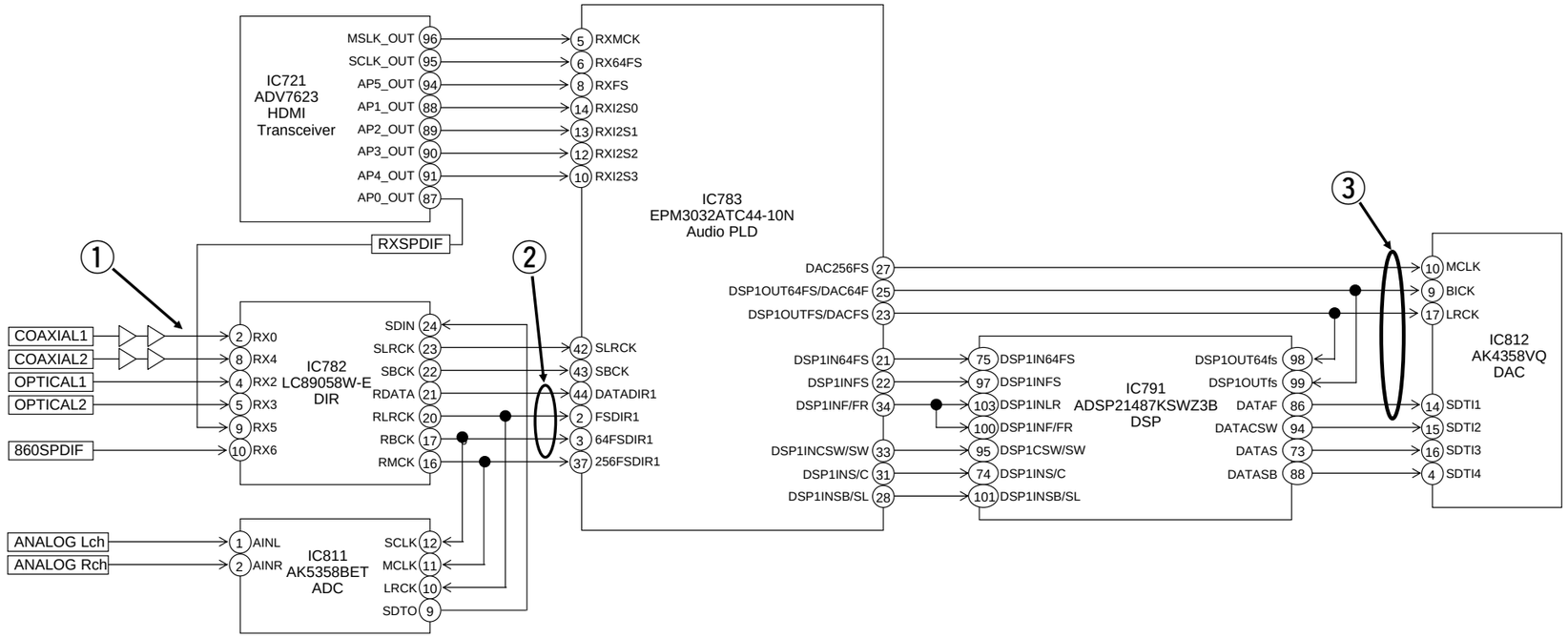
CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

WAVE FORM

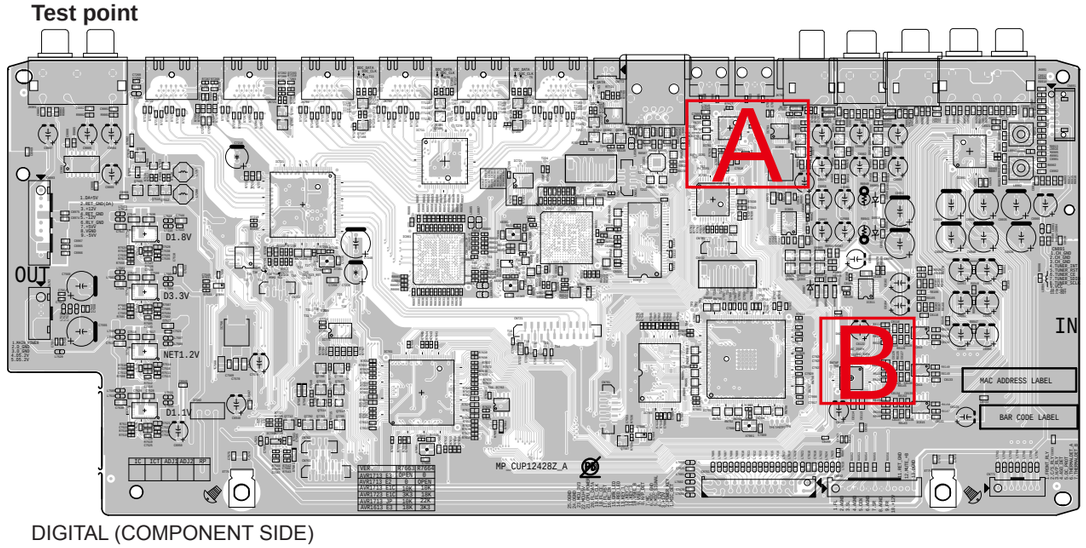






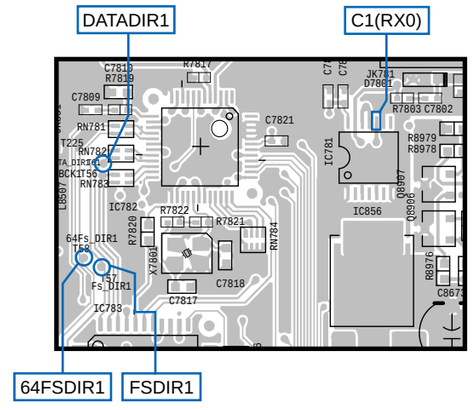


Test point

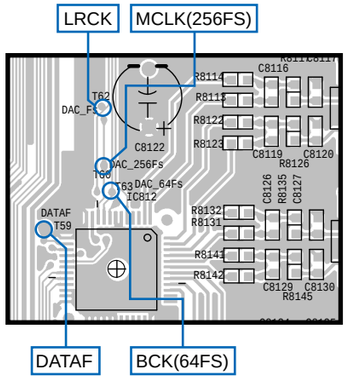


DIGITAL (COMPONENT SIDE)

Detail A

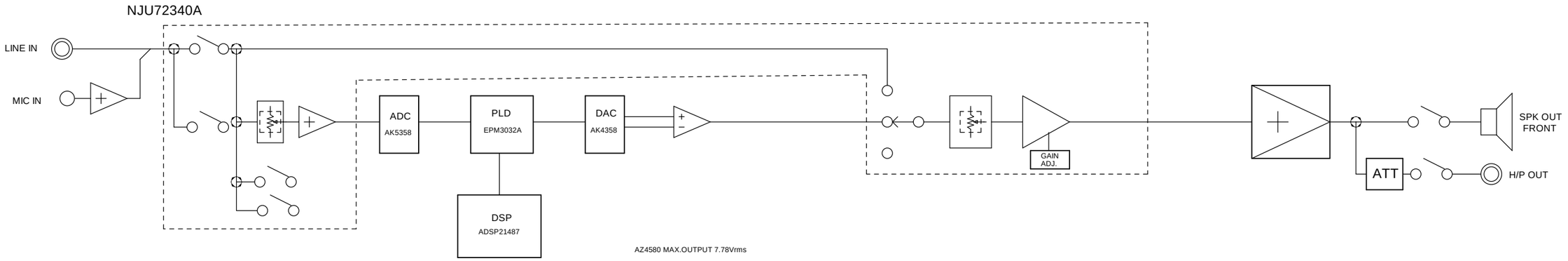


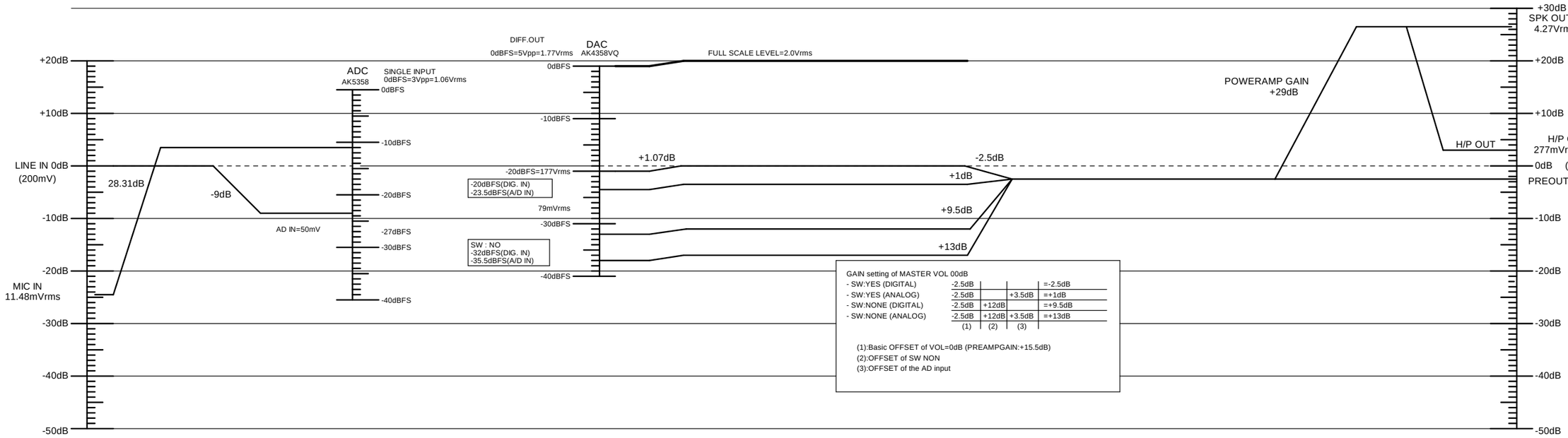
Detail B



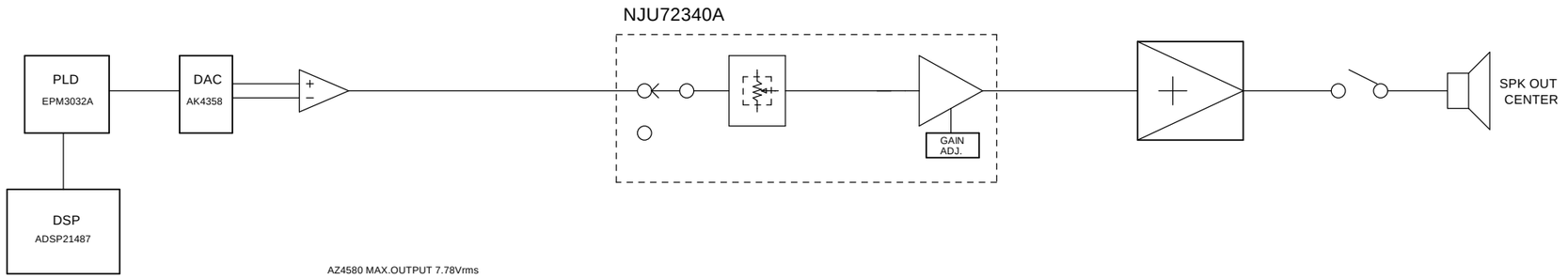
LEVEL DIAGRAM

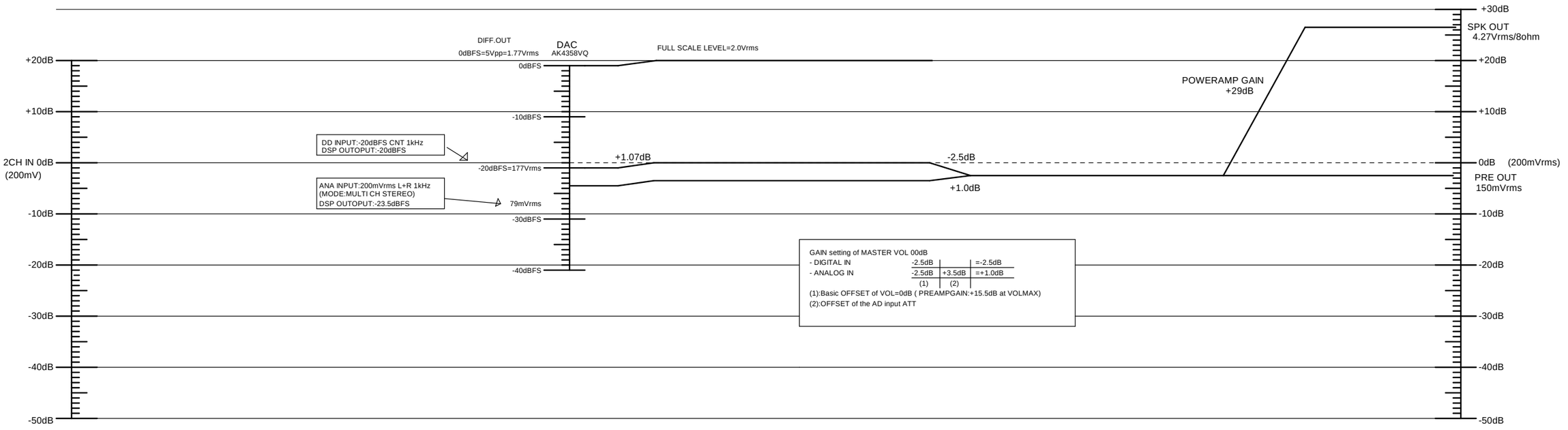
FRONT CHANNEL



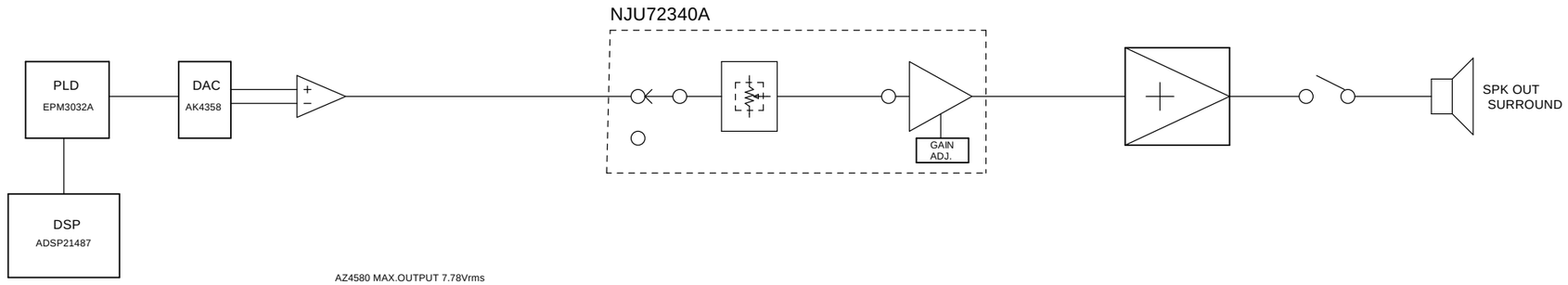


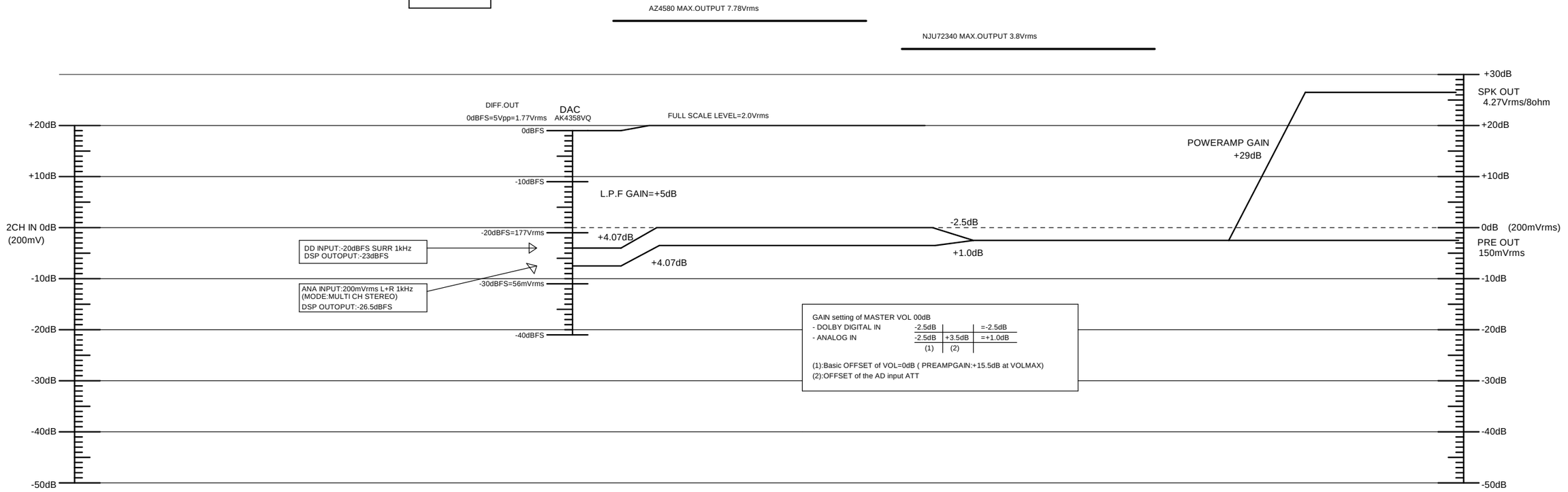
CENTER CHANNEL



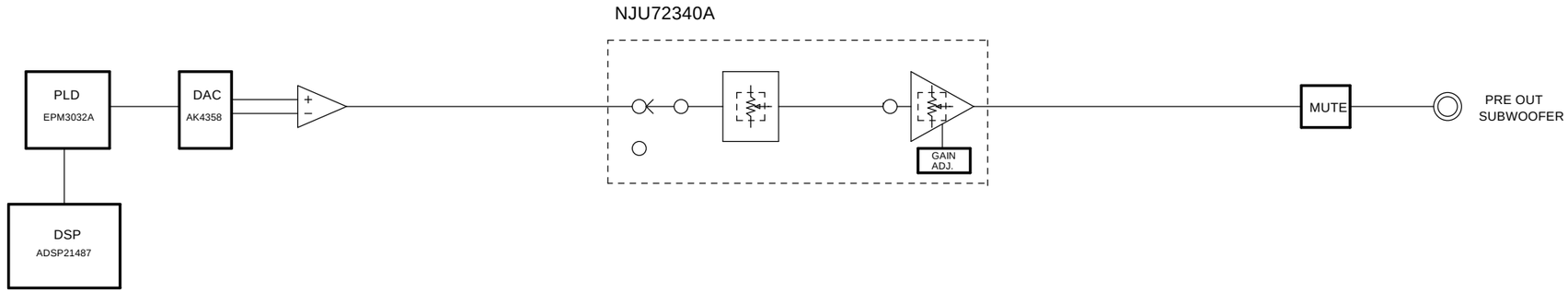


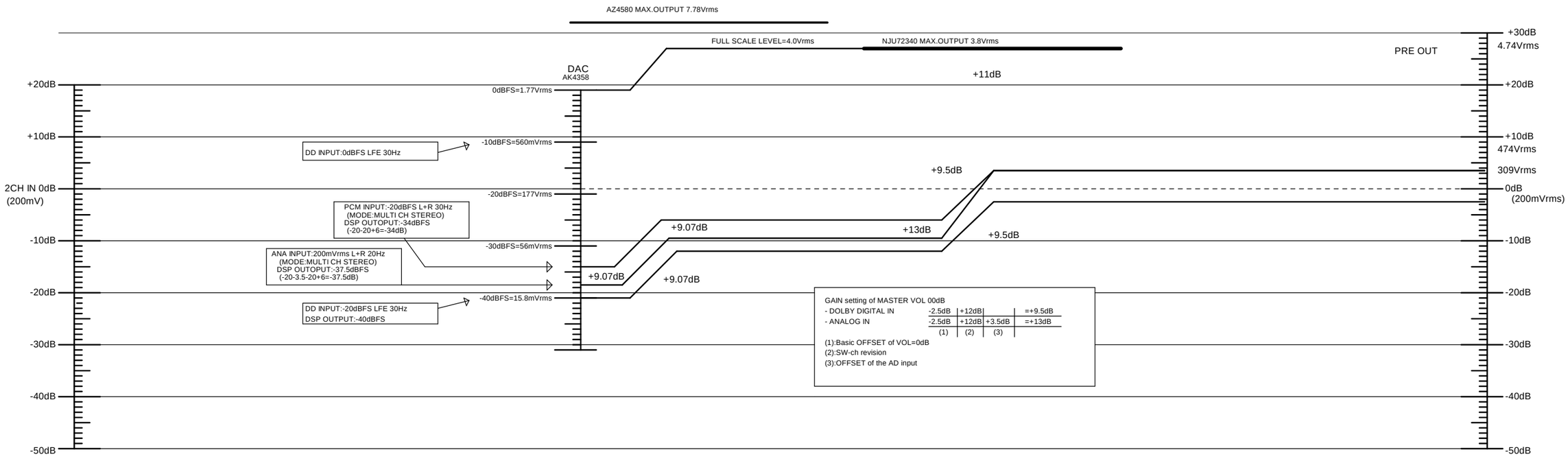
SURROUND CHANNEL



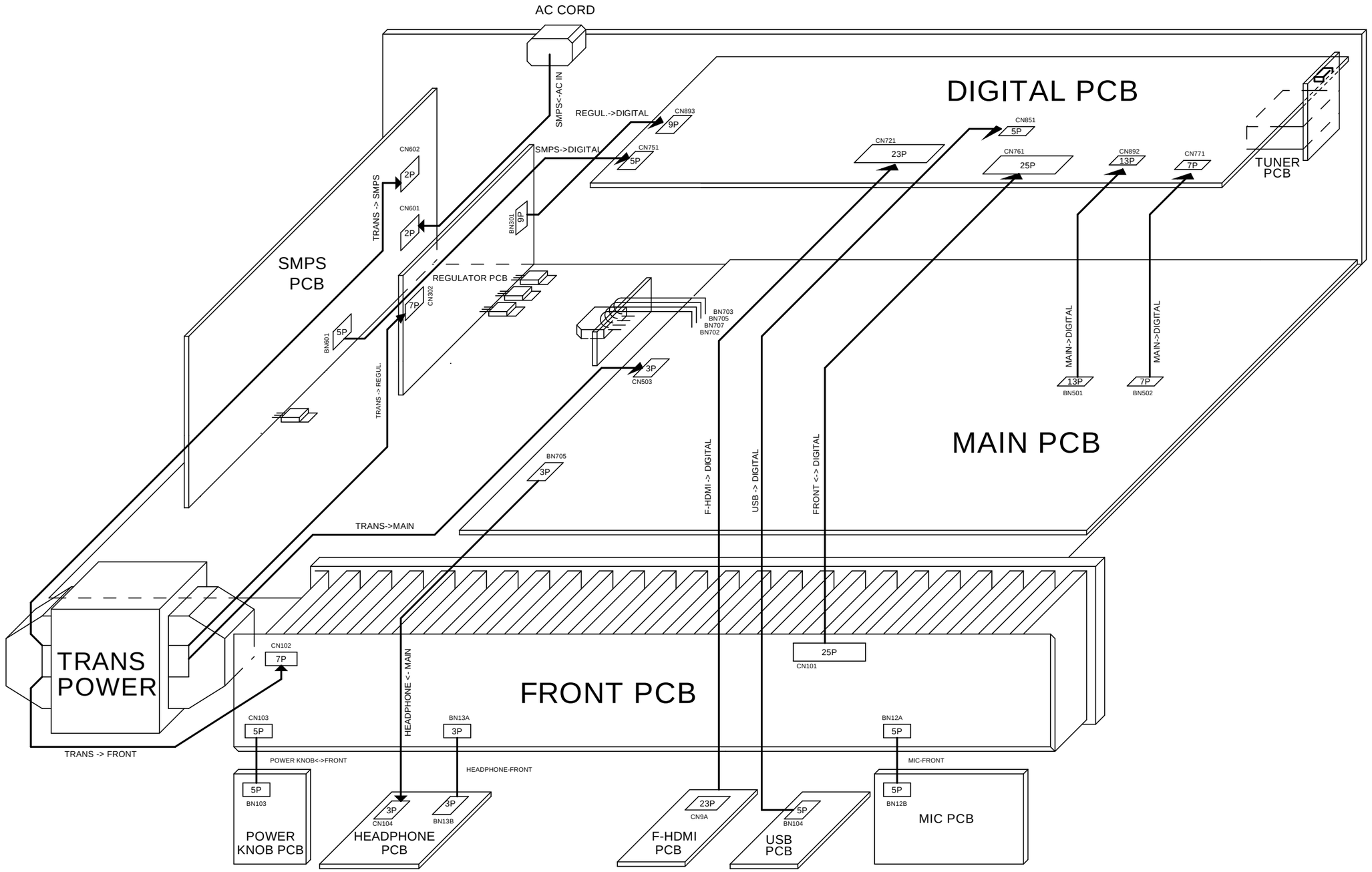


SUBWOOFER CHANNEL

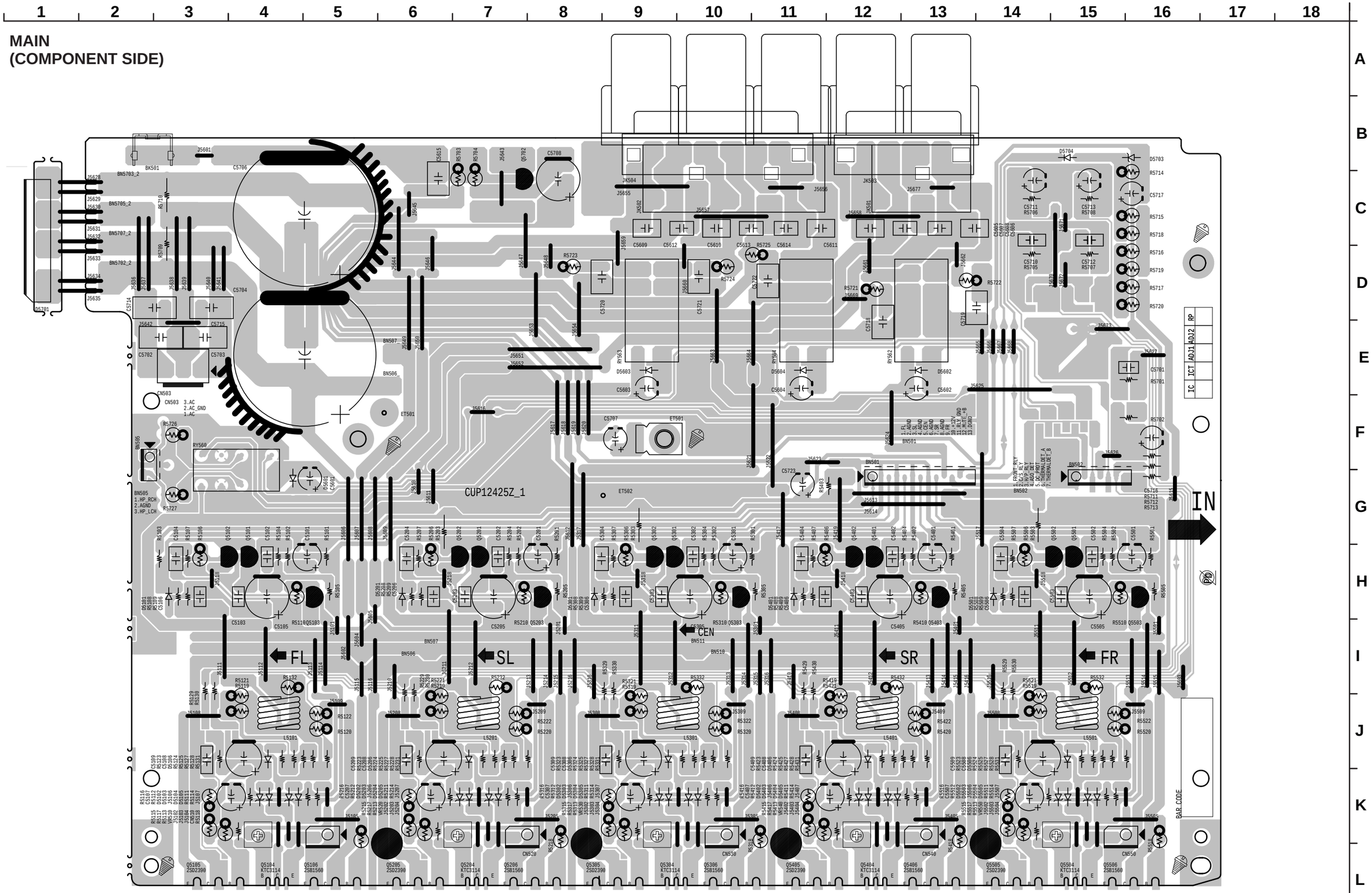




WIRING DIAGRAM



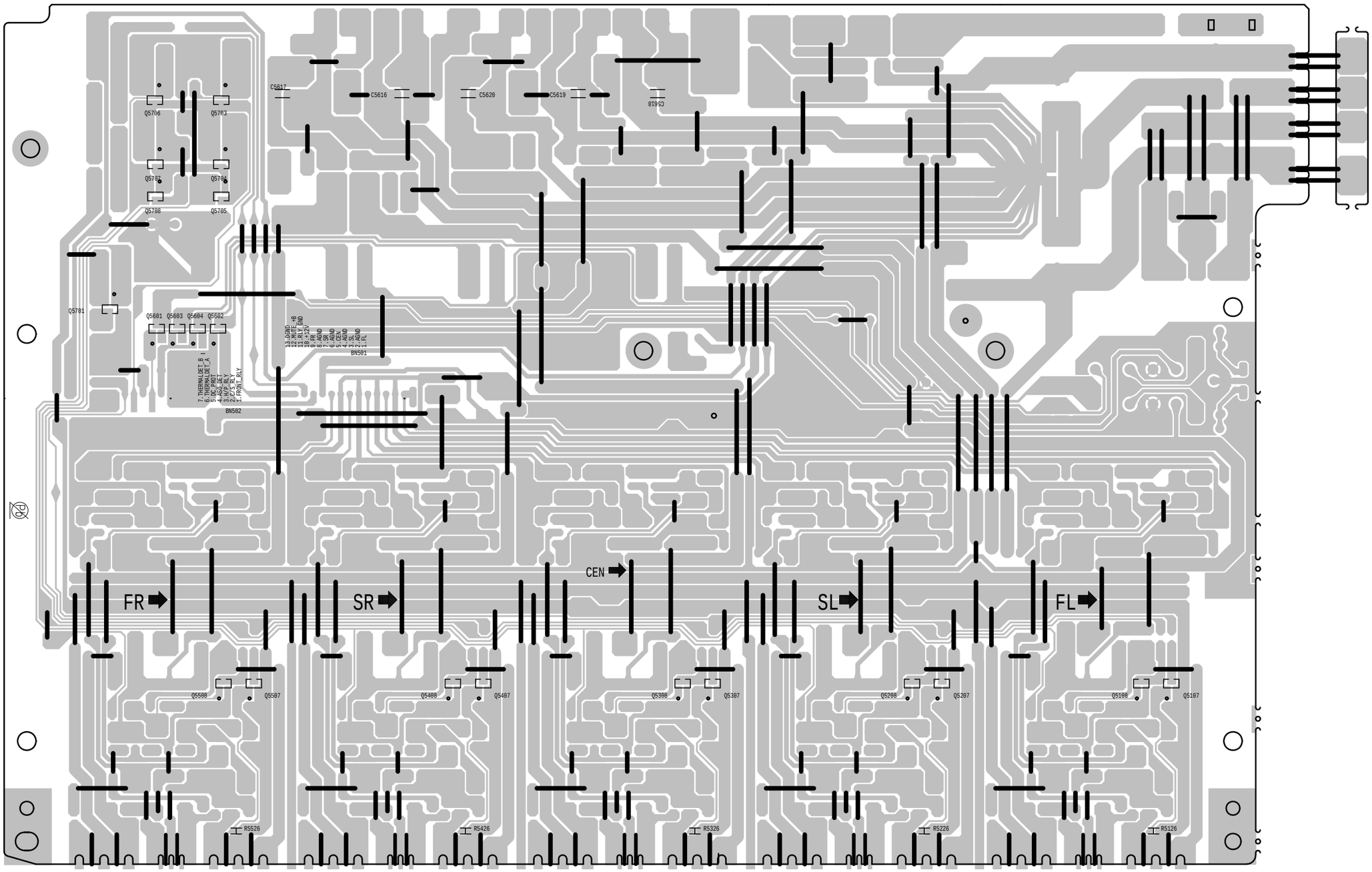
MAIN
(COMPONENT SIDE)



鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

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

MAIN
(FOIL SIDE)



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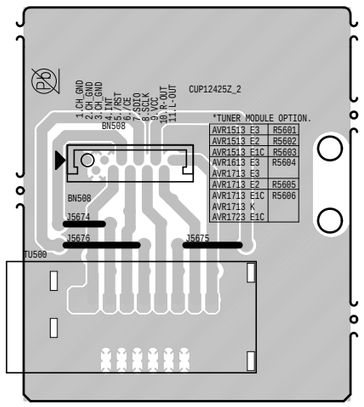
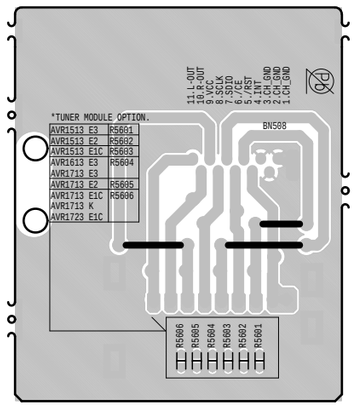
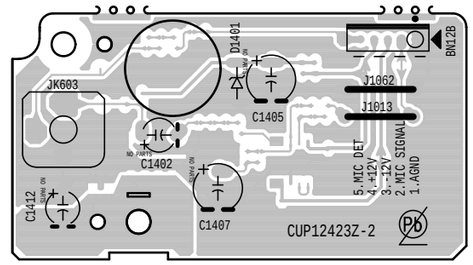
TUNER (COMPONENT SIDE)



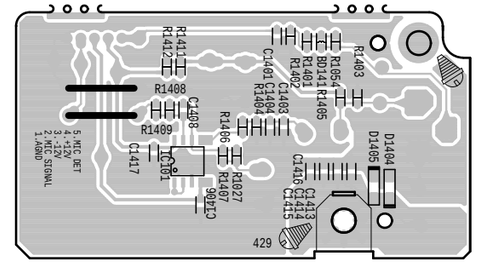
TUNER (FOIL SIDE)



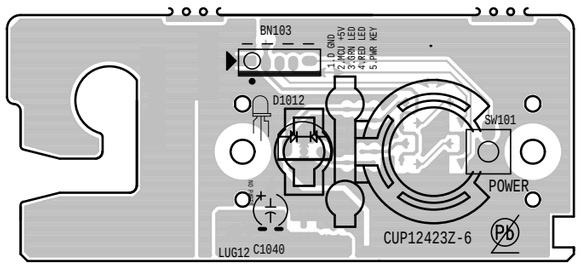
MIC (COMPONENT SIDE)



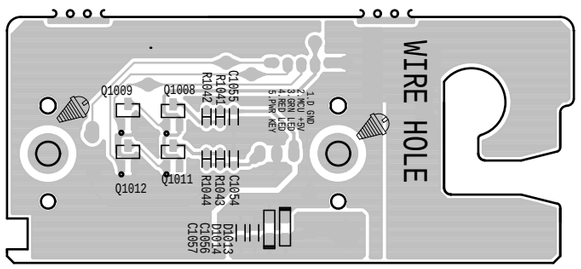
MIC (FOIL SIDE)



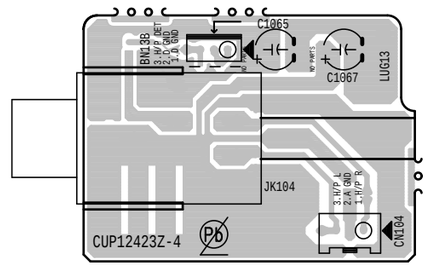
POWER KNOB (COMPONENT SIDE)A



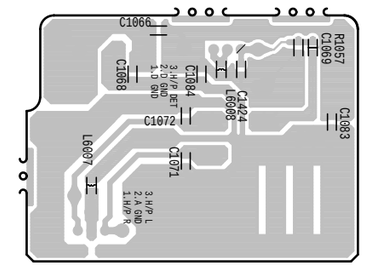
POWER KNOB (FOIL SIDE)



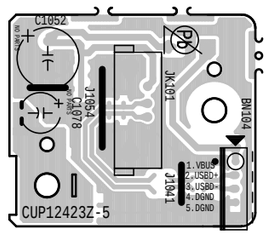
HEADPHONE (COMPONENT SIDE)



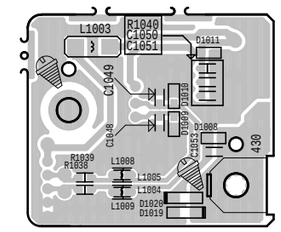
HEADPHONE (FOIL SIDE)



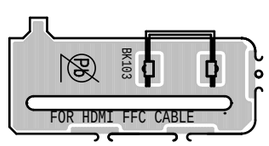
USB (COMPONENT SIDE)



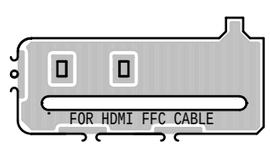
USB (FOIL SIDE)



FOR HDMI FFC CABLE (COMPONENT SIDE)



FOR HDMI FFC CABLE (FOIL SIDE)



鉛フリー半田
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Lead-free Solder
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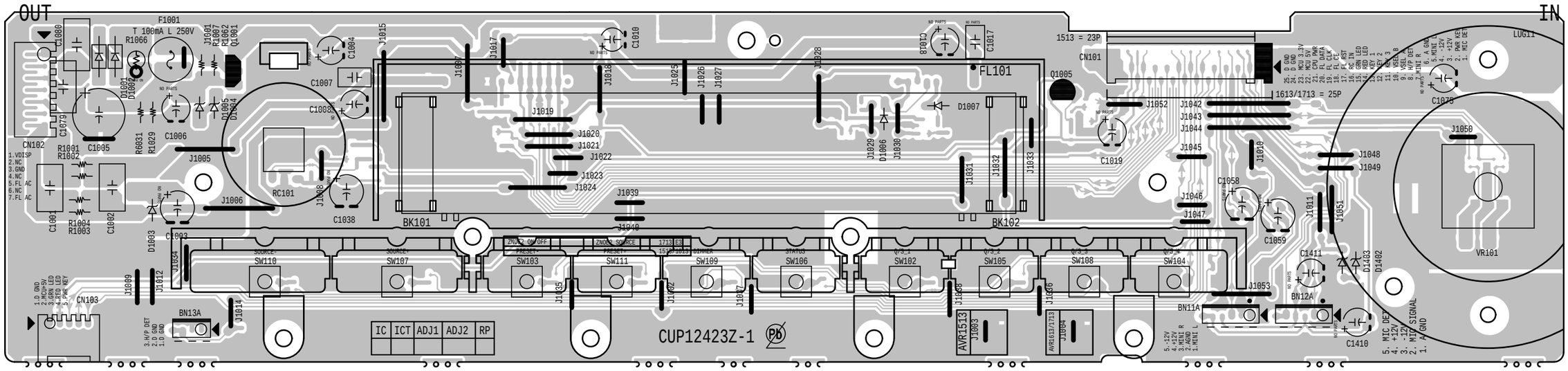
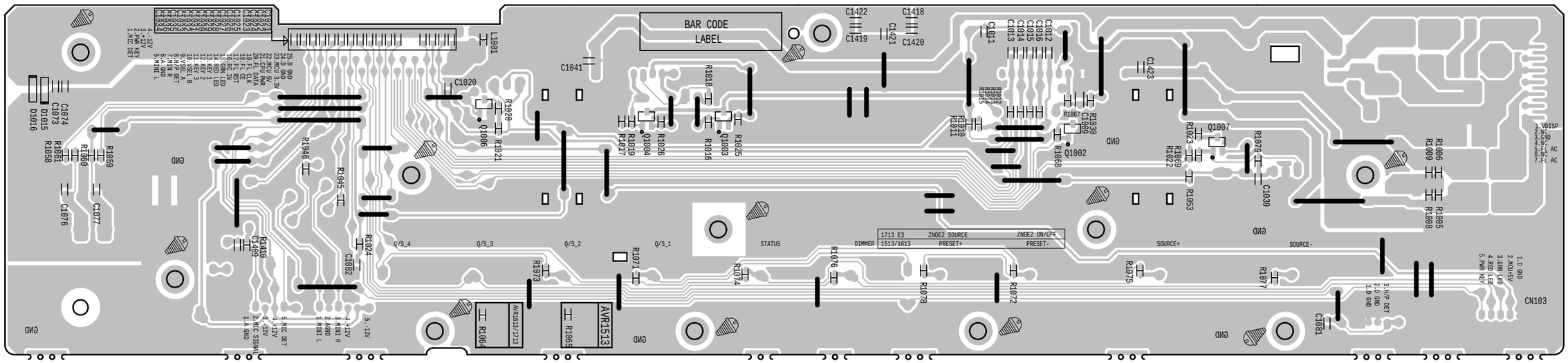
FRONT
(COMPONENT SIDE)



FRONT
(FOIL SIDE)



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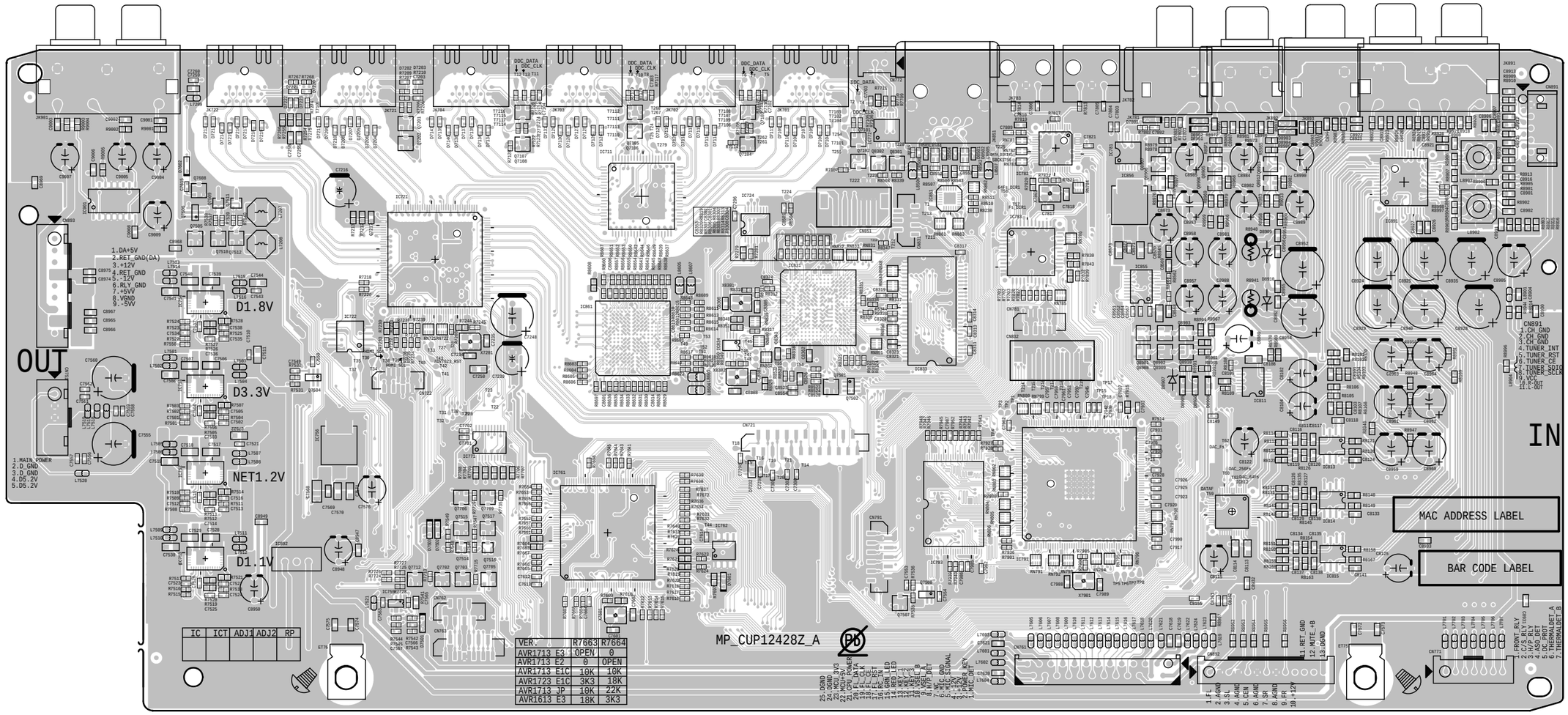
DIGITAL
(COMPONENT SIDE)



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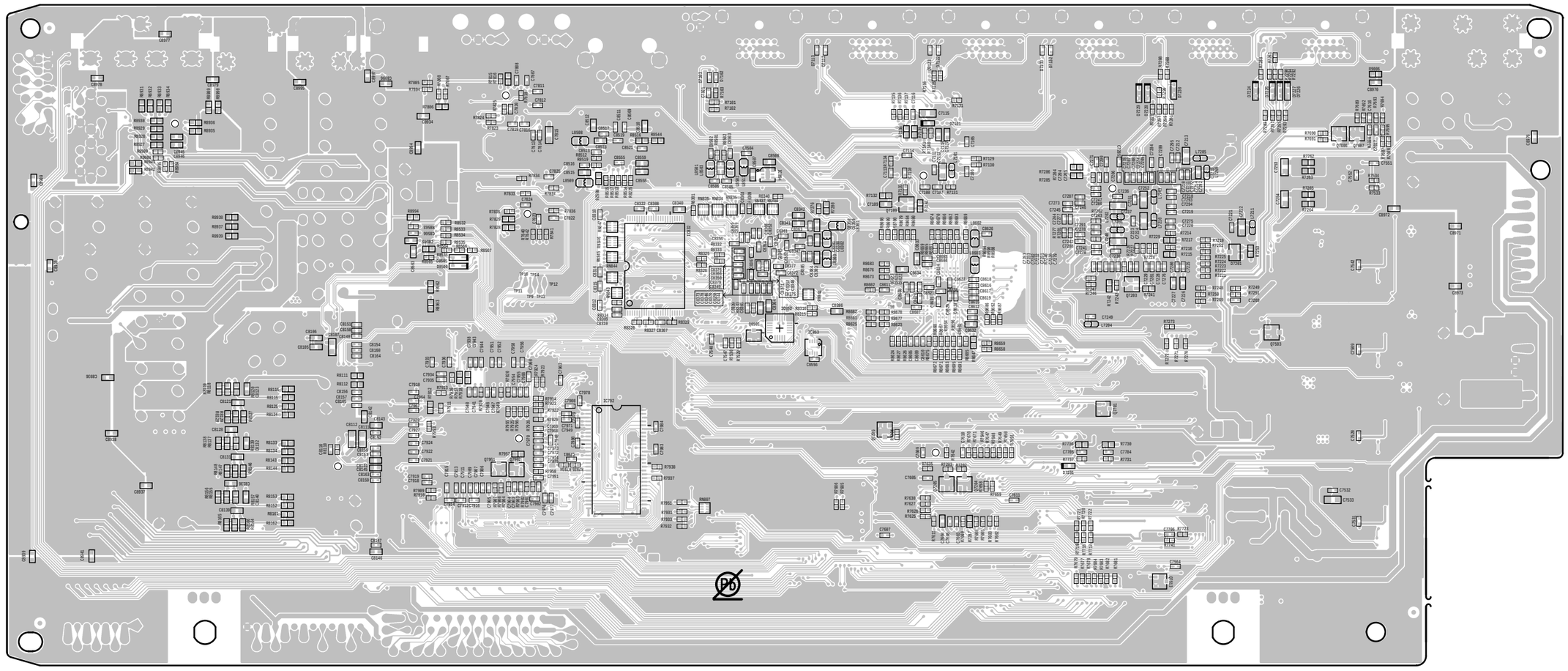
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

A B C D E F G H I J K L M

DIGITAL
(FOIL SIDE)



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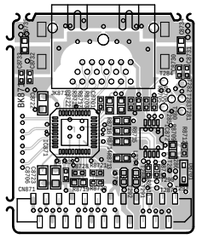
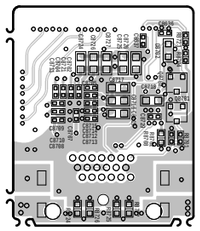
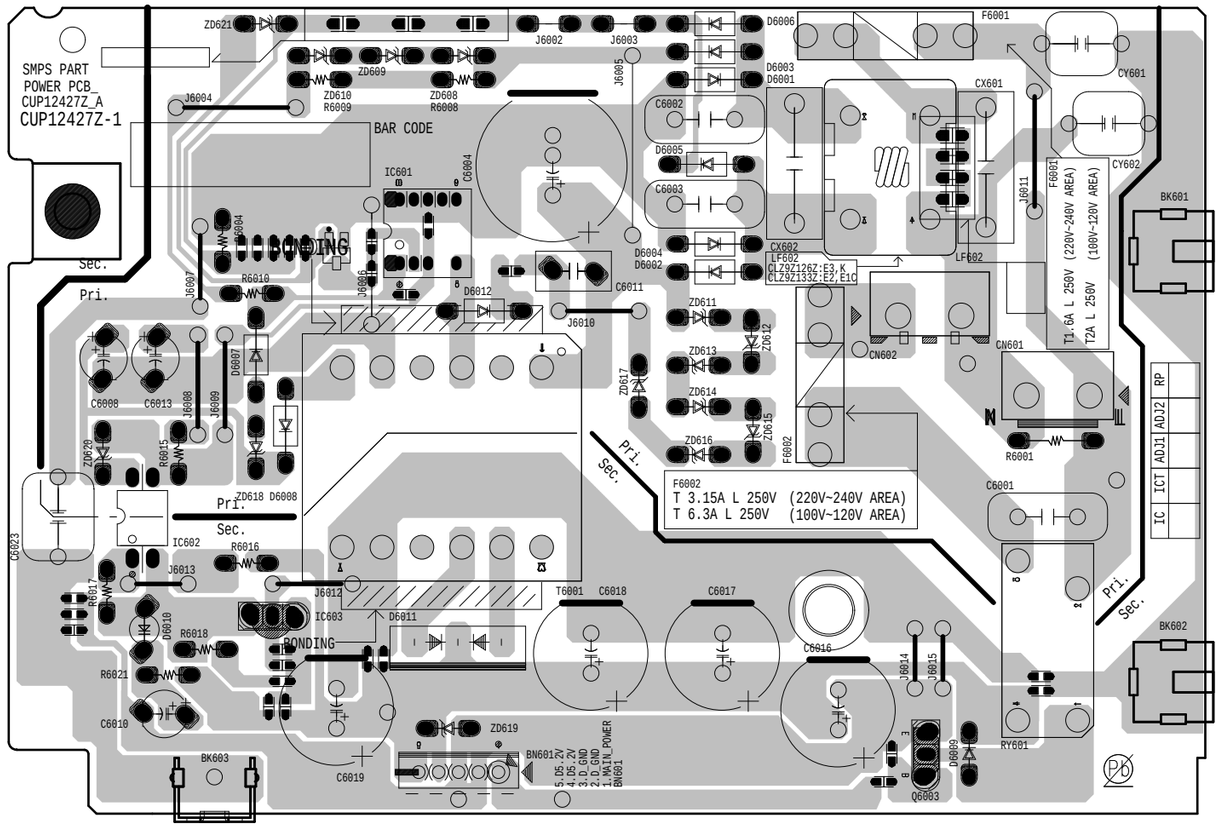
F-HDMI (COMPONENT SIDE)



F-HDMI (FOIL SIDE)



SMPS (COMPONENT SIDE)



鉛フリー半田
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Lead-free Solder
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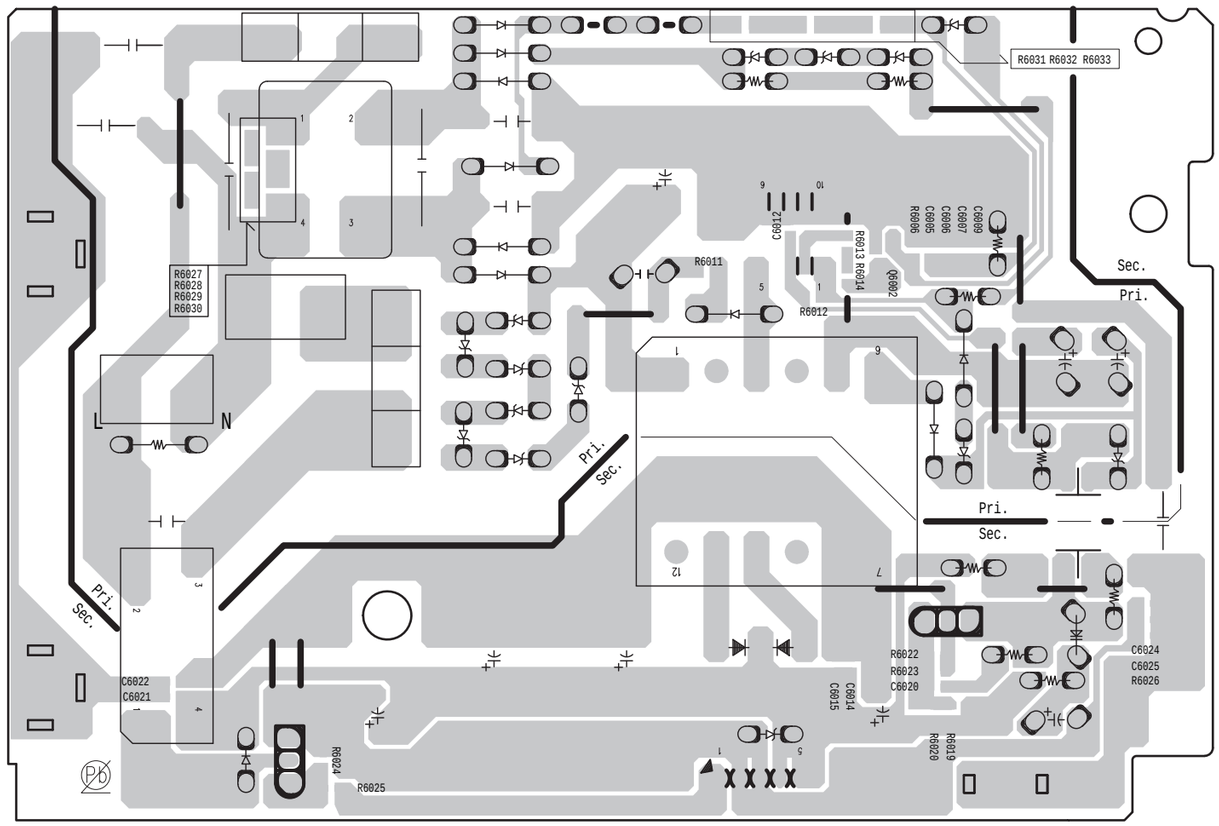
SMPS
(FOIL SIDE)



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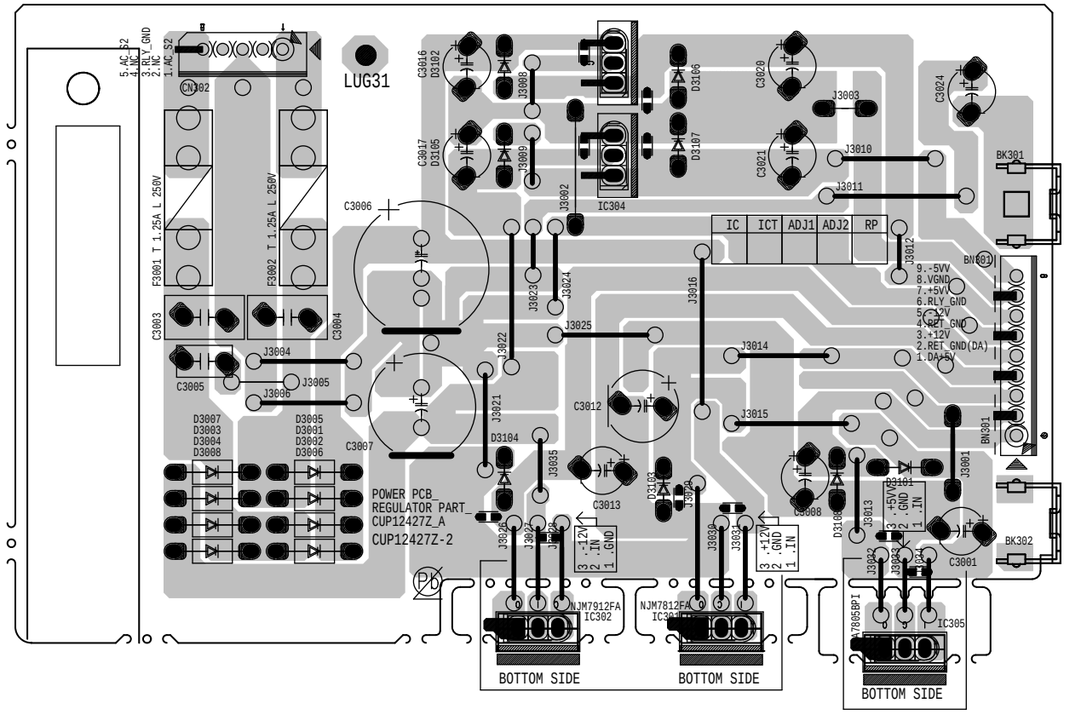
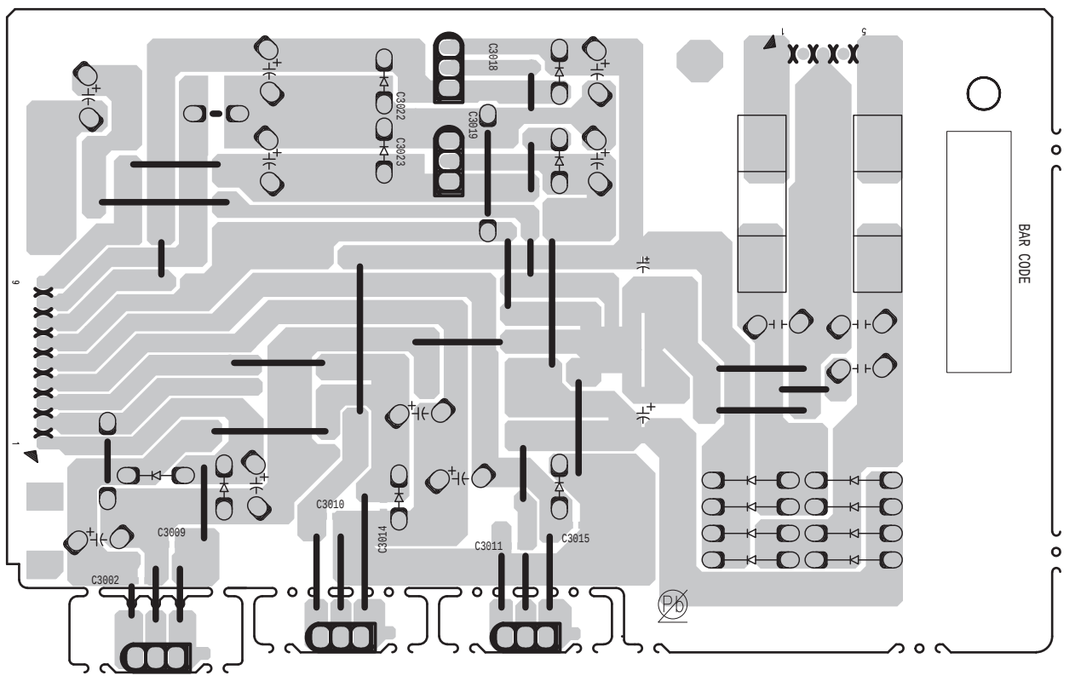
Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

REGULATOR
(COMPONENT SIDE)



REGULATOR
(FOIL SIDE)



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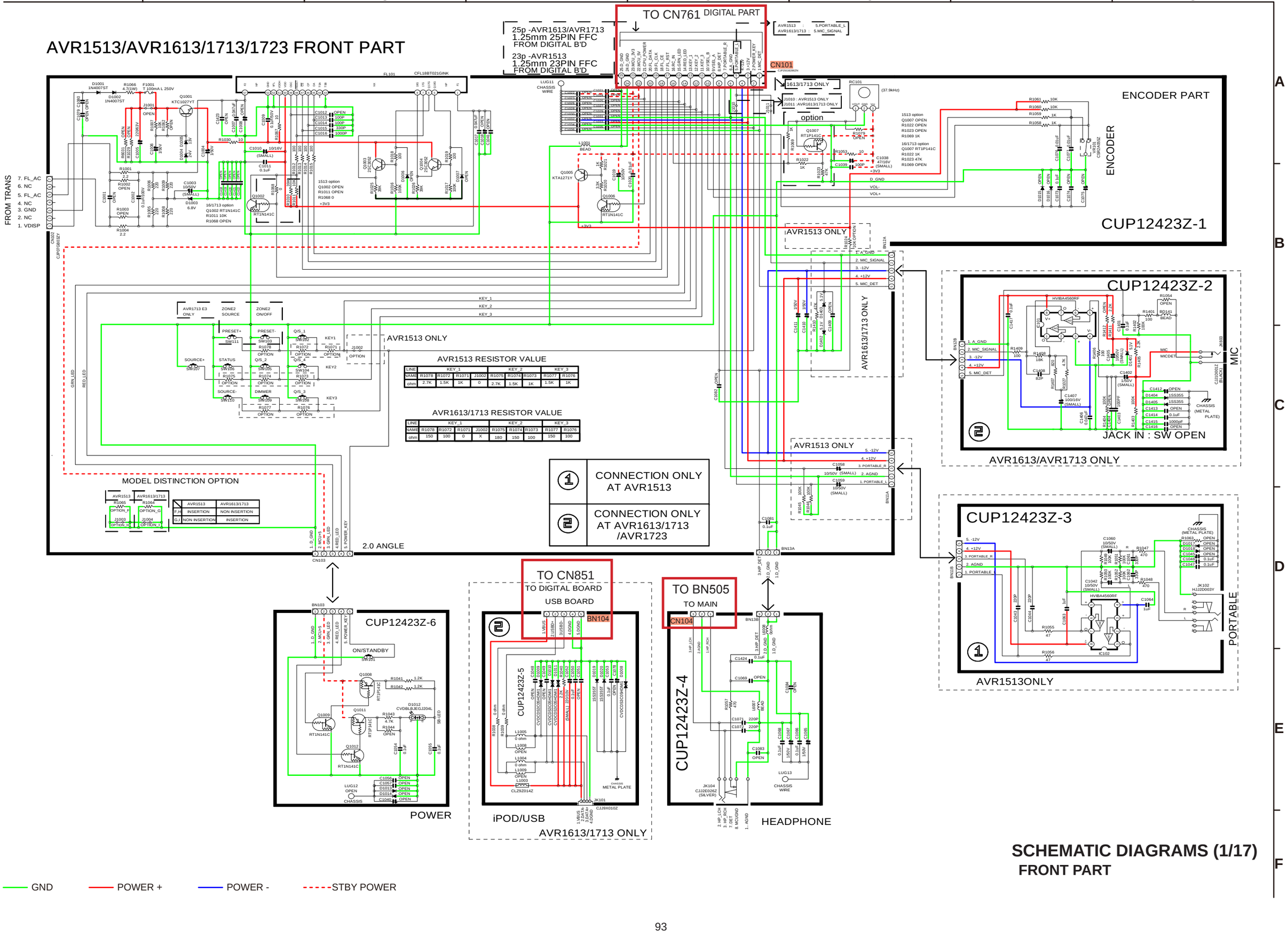
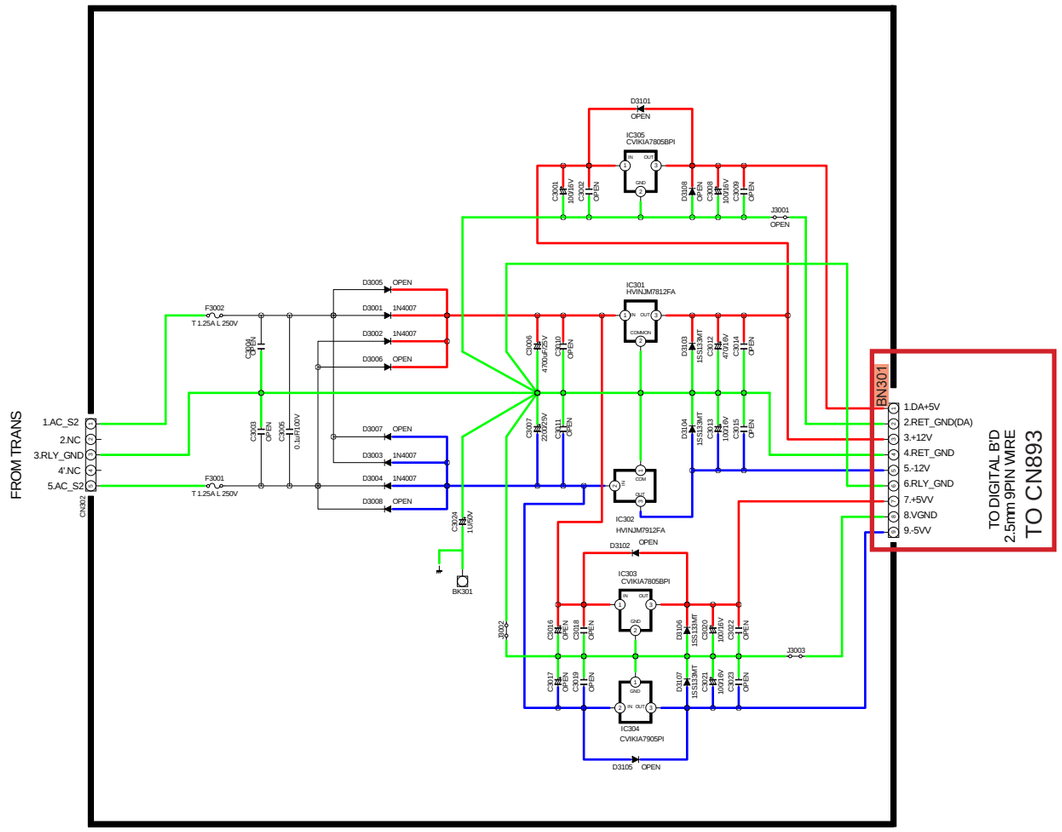
AVR1513/AVR1613/1713/1723 FRONT PART

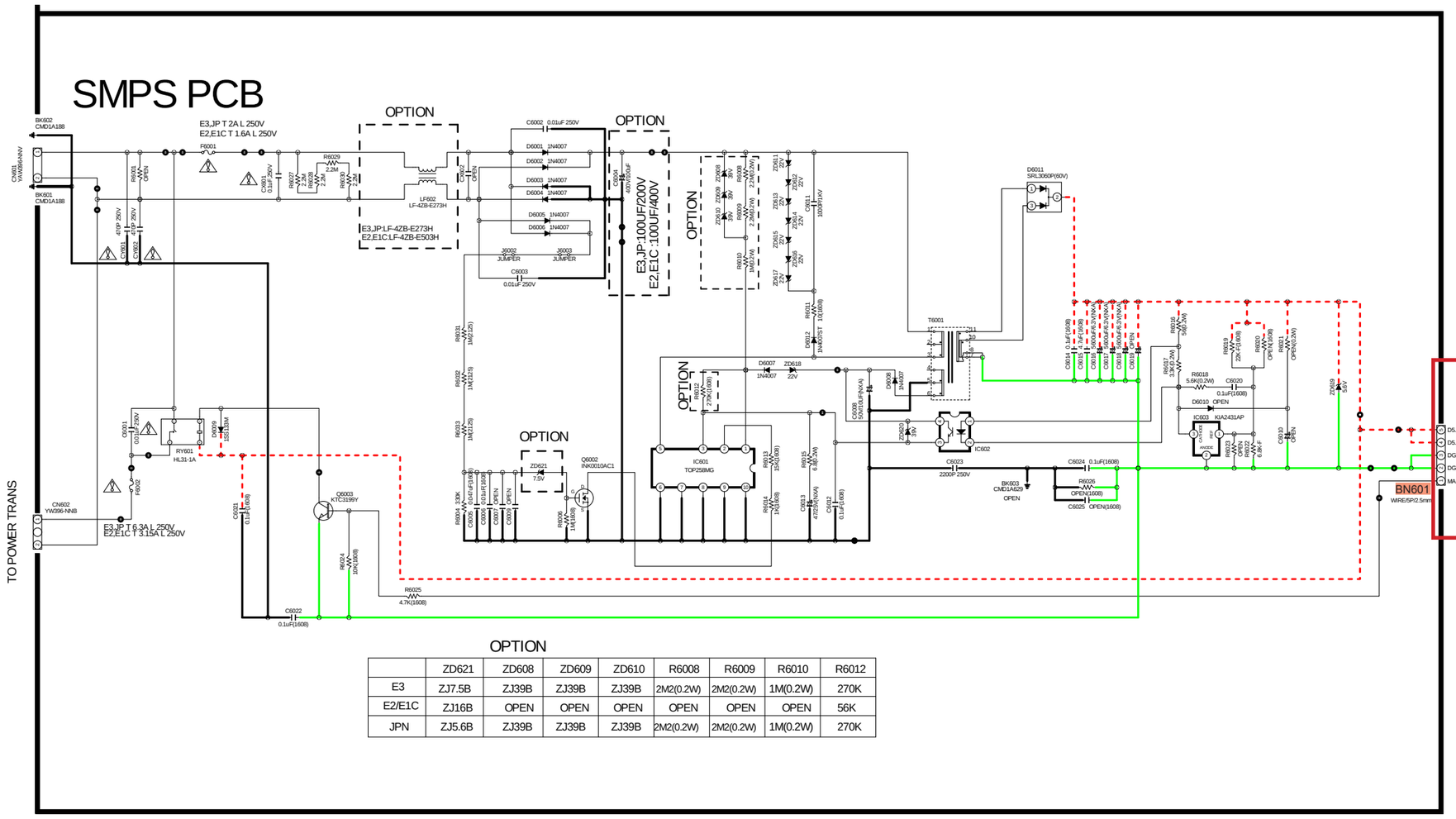


REGULATOR PART



GND POWER + POWER - STBY POWER

SCHEMATIC DIAGRAMS (2/17)
REGULATOR PART



OPTION

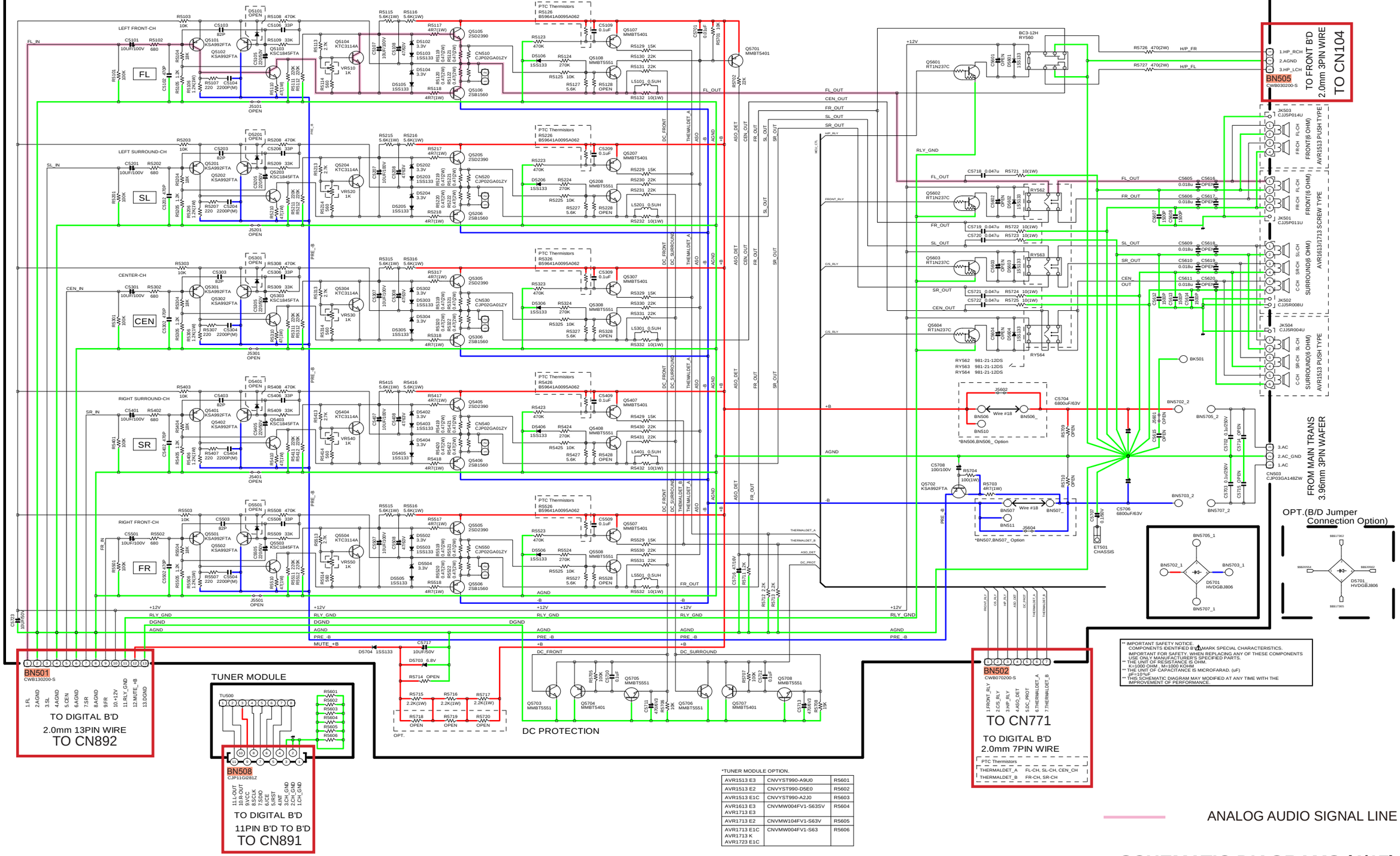
	ZD621	ZD608	ZD609	ZD610	R6008	R6009	R6010	R6012
E3	ZJ7.5B	ZJ39B	ZJ39B	ZJ39B	2M2(0.2W)	2M2(0.2W)	1M(0.2W)	270K
E2/E1C	ZJ16B	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	56K
JPN	ZJ5.6B	ZJ39B	ZJ39B	ZJ39B	2M2(0.2W)	2M2(0.2W)	1M(0.2W)	270K

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

GND POWER + POWER - STBY POWER

SCHEMATIC DIAGRAMS (3/17)
SMPS UNIT

AVR1513/AVR1613/1713 MAIN PART

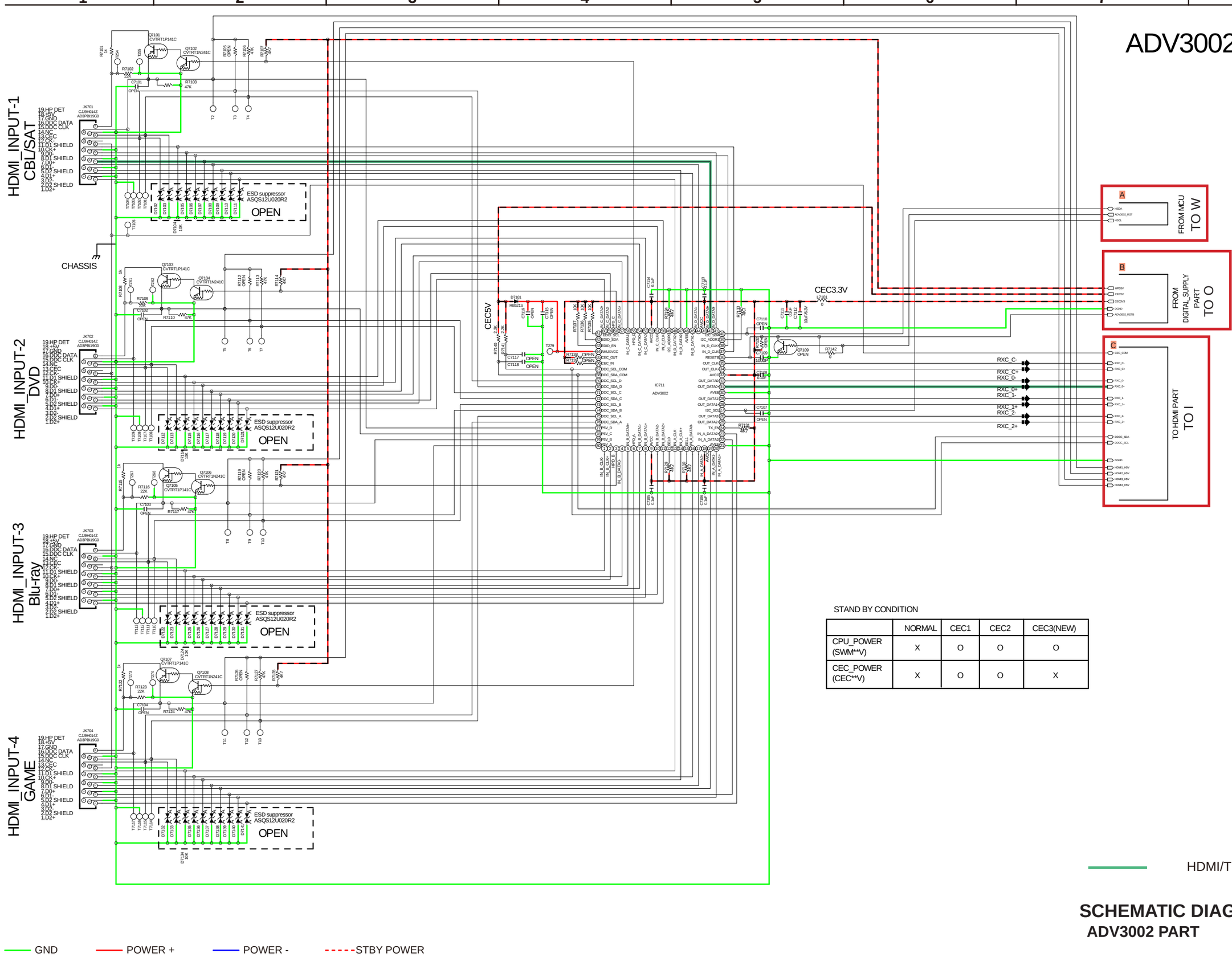


*TUNER MODULE OPTION.

AVR1513 E3	CNVYST990-A9U0	R5601
AVR1513 E2	CNVYST990-D5E0	R5602
AVR1513 E1C	CNVYST990-A2J0	R5603
AVR1613 E3 AVR1713 E3	CNVMW004FV1-S63SV	R5604
AVR1713 E2	CNVMW104FV1-S63V	R5605
AVR1713 E1C AVR1713 K AVR1723 E1C	CNVMW004FV1-S63	R5606

SCHEMATIC DIAGRAMS (4/17)
MAIN PART

ADV3002 PART



STAND BY CONDITION

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

HDMI/TMDS SIGNAL LINE

GND POWER + POWER - STBY POWER

SCHEMATIC DIAGRAMS (5/17)
ADV3002 PART

HDMI PART

0.01uF OPEN(ADI RECOMMENDATION)

TO CN871
FROM AD8195(F-HDMI IN)

CN721
CJP23GA193ZY
10022H-23C

CEC
HPD_A
TXEN
DDCA_SDA
DDCA_SCL
RXA_5V
CEC5V
CEC3.3V
CEC3.3V
DGND
DGND
RXA_C-
RXA_C+
DGND
RXA_0-
RXA_0+
DGND
RXA_1-
RXA_1+
DGND
RXA_2-
RXA_2+
DGND

D7232
CVDCDS3C05HDM1

RXA_C-
RXA_C+
RXA_0-
RXA_0+
RXA_1-
RXA_1+
RXA_2-
RXA_2+

CHASSIS

TO AW
TO IPCONVERTER PART

TO C
TO ADV3002

HDMI_INPUT-5
Media Player

JK721
CJJ9H014Z
19.HP DET
18.+5V
17.GND
16.DDC DATA
15.DDC CLK
14.NC
13.CEC
12.CK-
11.D1 SHIELD
10.CK+
9.D0-
8.D1 SHIELD
7.D0+
6.D1-
5.D2 SHIELD
4.D1+
3.D2-
2.D2 SHIELD
1.D2+

AVR1712E3 ONLY

ESD suppressor
ASQS12U020R2
OPEN

CEC5V

+1V8H2
<PVDD_1V8>
36.7mA
<DVDD_1V8>
332.4mA
500 ohm

IC721
ADV7623

HDMI_MCLK
HDMI_SCLK
HDMI_LRCLK
HDMI_SDATA3
HDMI_SDATA2
HDMI_SDATA1
HDMI_SDATA0
HDMI_SPDIF

TO DIR PART
TO AH

INT_TX
INT2
HDMI_SCL
HDMI_SDA

FROM/TO MCU
TO Q

<DVDDIO_3V3>
1.5mA
<TXAVDD_1V8>
15mA

+3V3H
MI
MO
CS
CLK

OSD FLASH PART
IC722 : MX25L3206EM2I-12G

CN722
CJP07GA193ZY
SCK
GND
MISO ?
VCC
/CS
MOSI ?
GND

FOR OSD UPDATE
1.00mm FFC

ESD suppressor
ASQS12U020R2
OPEN

JK722
CJJ9H014Z

HDMI_OUT

TX2+
TX2-
TX1+
TX1-
TX0+
TX0-
TXC+
TXC-

<TXPLVDD_1V8>
24.8mA
<TXPVDD_1V8>
5.2mA
<TVDD_3V3>
292.2mA
<CVDD_1V8>
503.8mA

Recommended:
887.zabon(1%)
place R7212 & R7213 & C7217
as close as possible
to pin40 on the bot of PCB

DV5V
ARC

FROM
DIGITAL SUPPLY
TO M

FROM
MCU
TO V

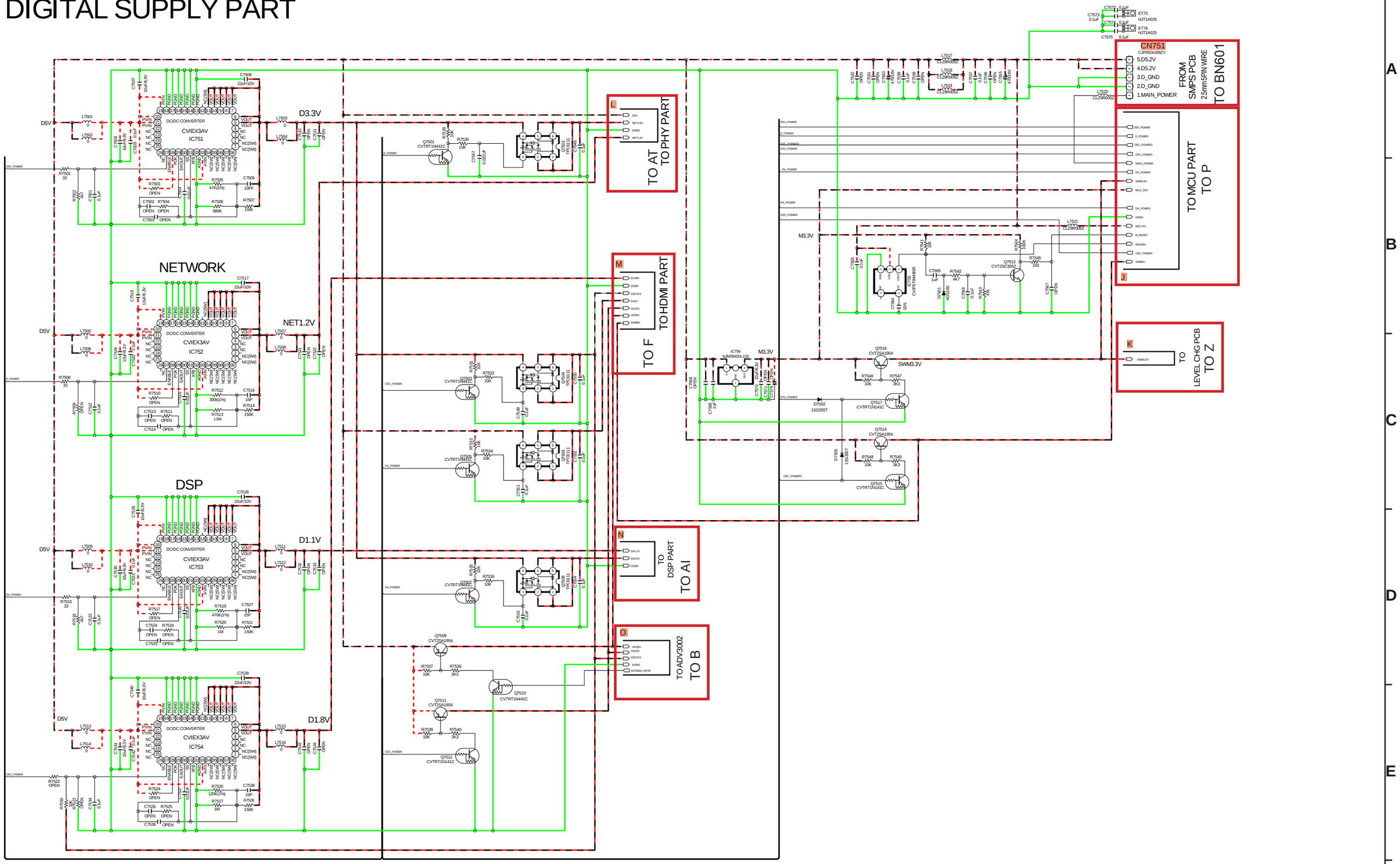
IC724
CVITC74VHC4051AFT

HDMI/TMDS SIGNAL LINE

GND
POWER +
POWER -
STBY POWER

SCHEMATIC DIAGRAMS (6/17)
HDMI PART

DIGITAL SUPPLY PART



GND POWER + POWER - STBY POWER

SCHEMATIC DIAGRAMS (7/17)
DIGITAL SUPPLY PART

MCU PART

TO AA TO MCU LEVEL CHG.

TO CN101
1.25mm 25PIN FFC
TO FRONT PCB

CN761
CJP25GA285ZN

TO AZ
TO AUDIO PART

TO A
TO
ADV3002 PART

TO G
TO
HDMI PART

AVR1713E3 ONLY
OTHER OPEN

IC761
CVIR5F56108VNFP

* AVR1613/AVR1713 VERSION OPTION

VER.	R7663(PU)	R7664(PD)
AVR1713 E3	OPEN	0
AVR1713 E2	0	OPEN
AVR1713 E1C	10K	10K
AVR1723 E1C	3K3	18K
AVR1713 JP	10K	22K
AVR1613 E3	18K	3K3

R7635,R7636,R7672
ES:4K7
DPP~:OPEN

DC DET/ASO
H/P DET/MIC DET

R7663 R7664
OPTION OPTION
VERSION OPTION

HDMI CEC_PART

EEPROM PART

TO DIGITAL SUPPLY
TO J

TO HDMI
TO E

TO DSP PART
TO AK

TO MAIN DAC
TO AM

CN762
CJP07GA193ZY
1.RESET
2.VCC
3.TXD
4.RXD
5.DGND
6.CNVSS
7.DSP BOOT
RS232C Update
1.00mm FFC

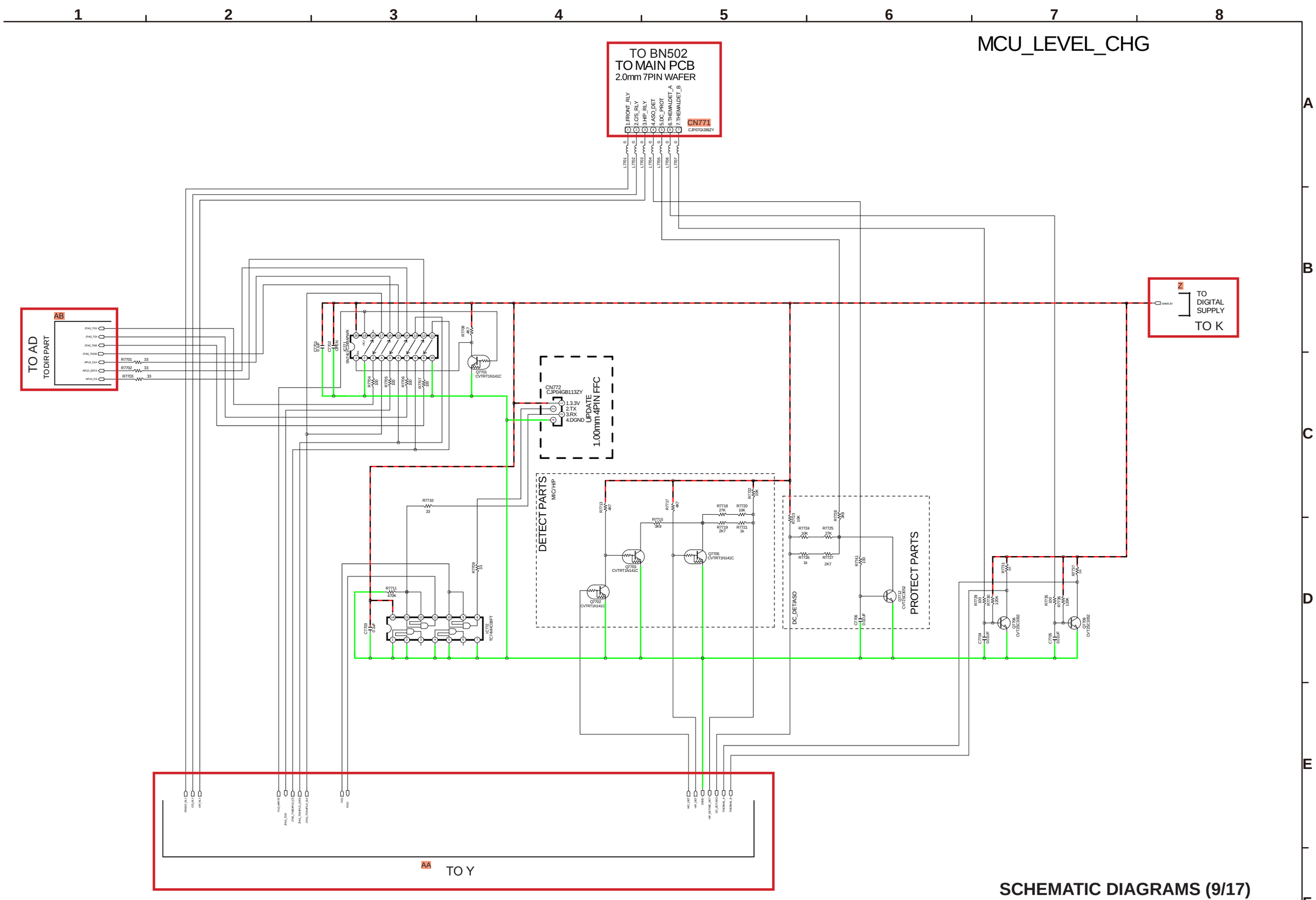
CN763
CJP11GA193ZY
1.RESET
2.MCU_3V3
3.TDI
4.TCK
5.DGND
6.MD0
7.MD1
8.EMLE
9.TRST#
10.TDO
11.TMS
MP : OPEN
E20/EMULATOR
1.00mm FFC

TO
DM860 PART
TO AR

TO
DIR PART
TO AC

GND
POWER +
POWER -
STBY POWER

SCHEMATIC DIAGRAMS (8/17)
MCU PART


MCU_LEVEL_CHG
TO BN502
TO MAIN PCB
2.0mm 7PIN WAFER
CN771
CJP07GI288ZY
1.FRONT_RLY
2.CFS_RLY
3.HP_RLY
4.ASO_DET
5.DC_PROT
6.THERMALDET_A
7.THERMALDET_B
L701
L702
L703
L704
L705
L706
L707
AB
TO AD
TO DIR PART
JTAG_TCK
JTAG_TDI
JTAG_TMS
JTAG_TDO0
APLO_CLK
APLO_DATA
APLO_CS
R7701 33
R7702 33
R7703 33
Z
SWIO3V
TO
DIGITAL
SUPPLY
TO K
C7701 0.1UF
C7702 0.1UF
SN74A244ANSR
R7704 100
R7705 100
R7706 100
R7707 100
R7708 4K7
Q7701 CVTRT1N141C
CN772 CJP04GB113ZY
1.3.3V
2.TX
3.RX
4.DGND
UPDATE
1.00mm 4PIN FFC
DETECT PARTS
MIC/ HP
R7710 33
R7709 33
R7711 470K
C7703 0.1UF
IC772 TC74AHC08FT
R7713 4K7
R7717 4K7
R7718 27K
R7720 10K
R7715 3K9
R7719 2K7
R7721 1k
R7722 10K
Q7703 CVTRT1N141C
Q7705 CVTRT1N141C
Q7702 CVTRT1N141C
DC_DETASO
PROTECT PARTS
R7723 10K
R7728 3K9
R7724 10K
R7725 27K
R7726 1k
R7727 2K7
R7731 100
C7708 0.1UF
Q7712 CVT2SC3052
R7732 2K
R7729 100
R7730 10K
R7733 10K
Q7706 CVT2SC3052
C7704 0.1UF
R7736 100
R7737 2K
R7738 10K
Q7709 CVT2SC3052
C7705 0.1UF
AA
TO Y
SCHEMATIC DIAGRAMS (9/17)
MCU_LEVEL_DHG PART
GND
POWER +
POWER -
STBY POWER

DIR PART

TO D
FROM
HDMI PART
AH

TO T
FROM MCU PART
AC

AD
FROM
MCU LEVEL CHG
PART
TO AB

JTAG
MP:OPEN
1.0mm 7PIN FFC
1.JTAG_TCK
2.DGND
3.JTAG_TDOO
4.VCC
5.JTAG_TMS
6.JTAG_TDI
7.DGND

IC782
CVILC89058W-E
DIR

IC783
EPM3032ATC4410

JP Ver. only

JP Ver. Except

JP version Except

COAXIAL
CBL/SAT

OPT1
TV

JP version only

OPT2

TO DAC PART TO AN
AG

FROM
NETWORK PART
TO AQ
AF

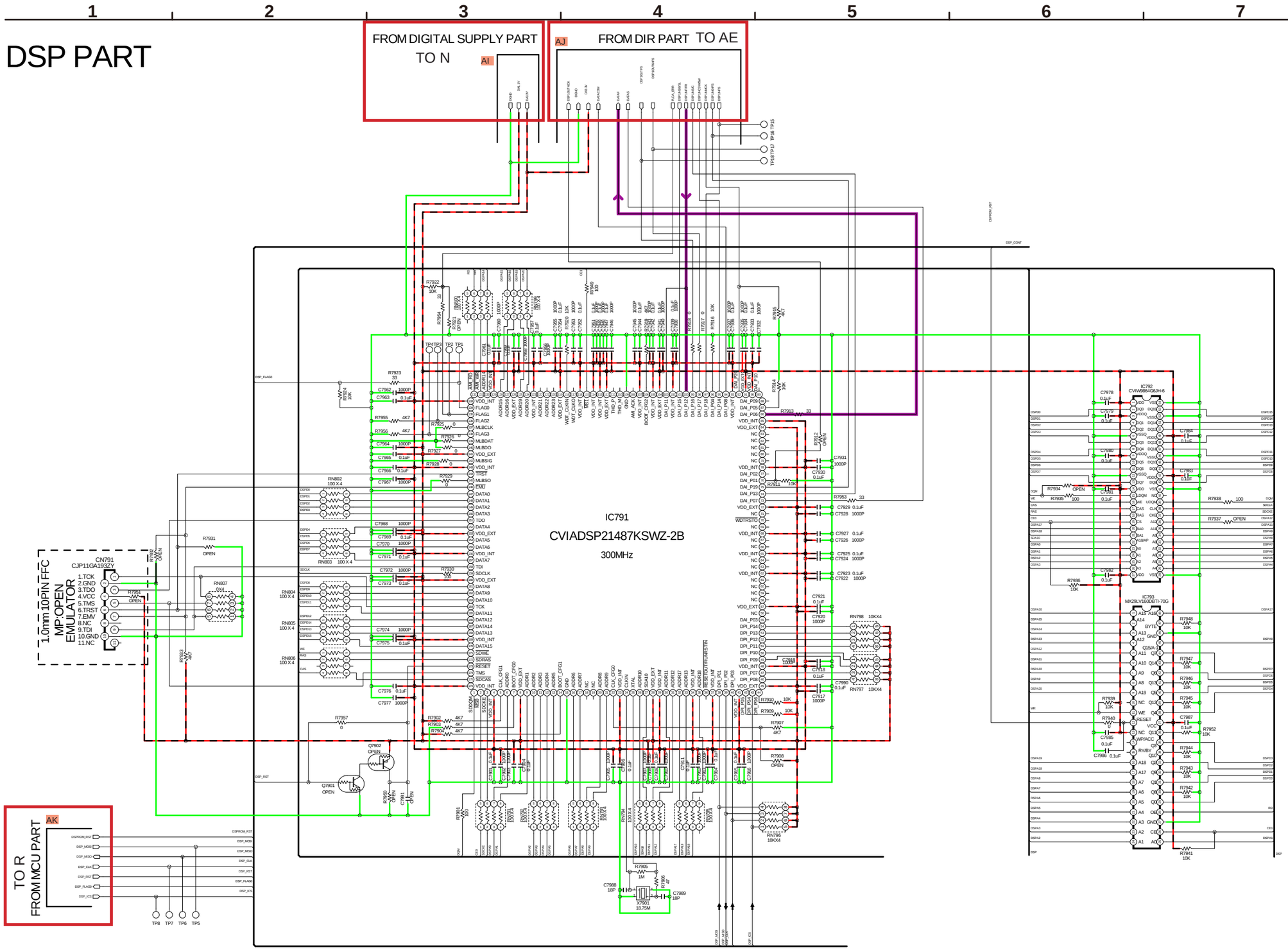
TO DSP PART
TO AJ
AE

DIGITAL AUDIO SIGNAL LINE

GND
POWER +
POWER -
STBY POWER

SCHEMATIC DIAGRAMS (10/17)
DIR PART

DSP PART



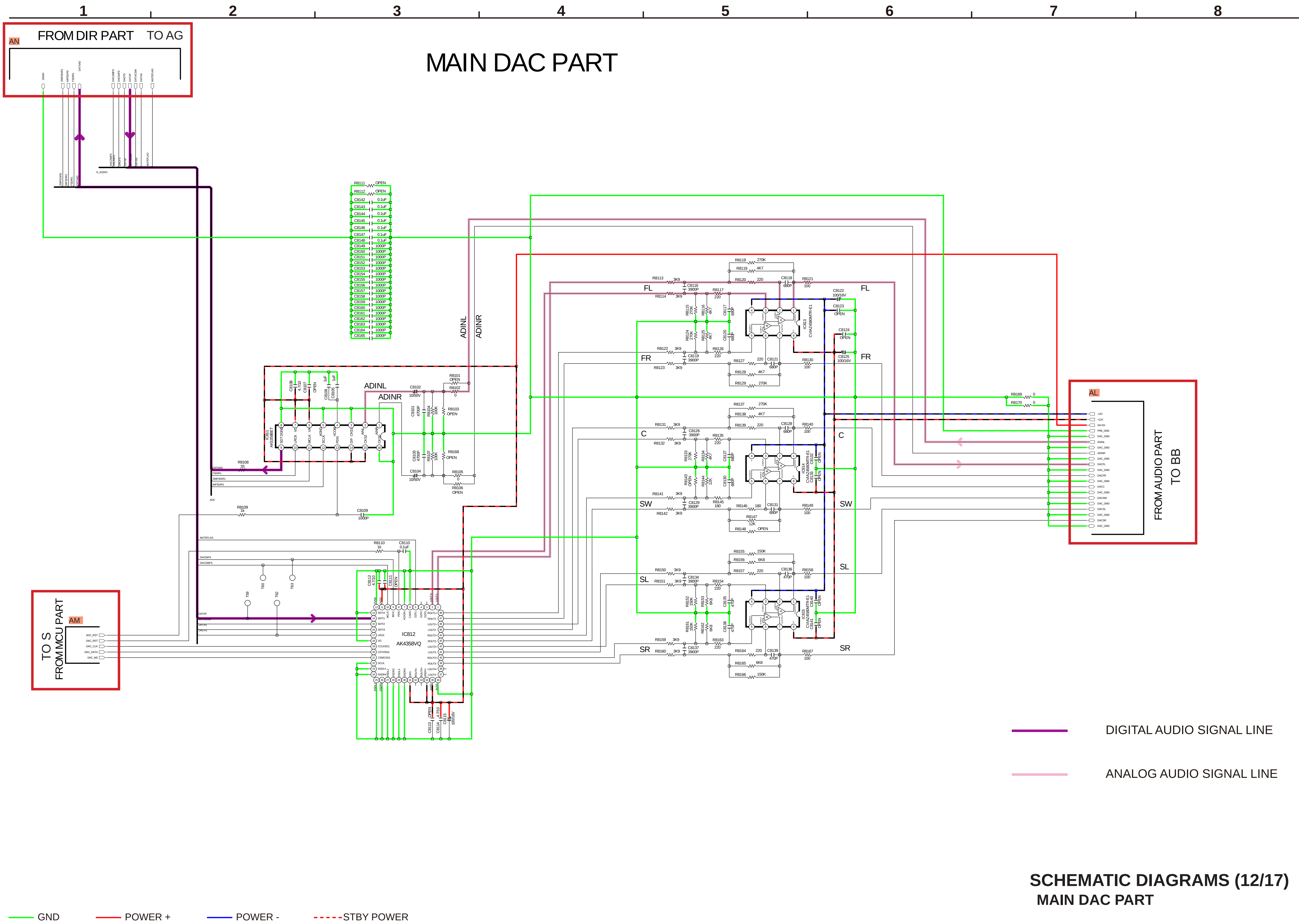
DIGITAL AUDIO SIGNAL LINE

GND POWER + POWER - STBY POWER

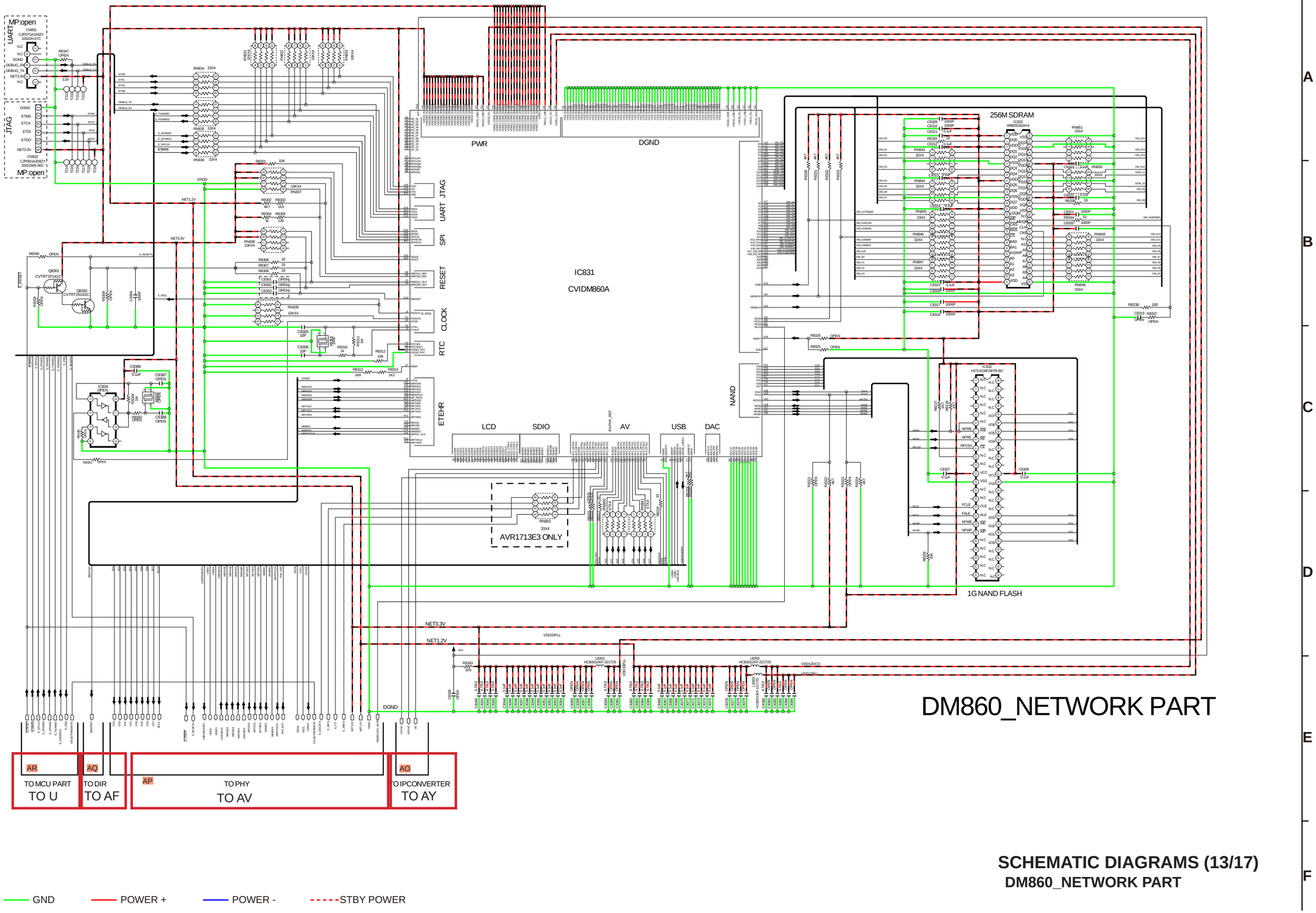
SCHEMATIC DIAGRAMS (11/17)

DSP PART

MAIN DAC PART



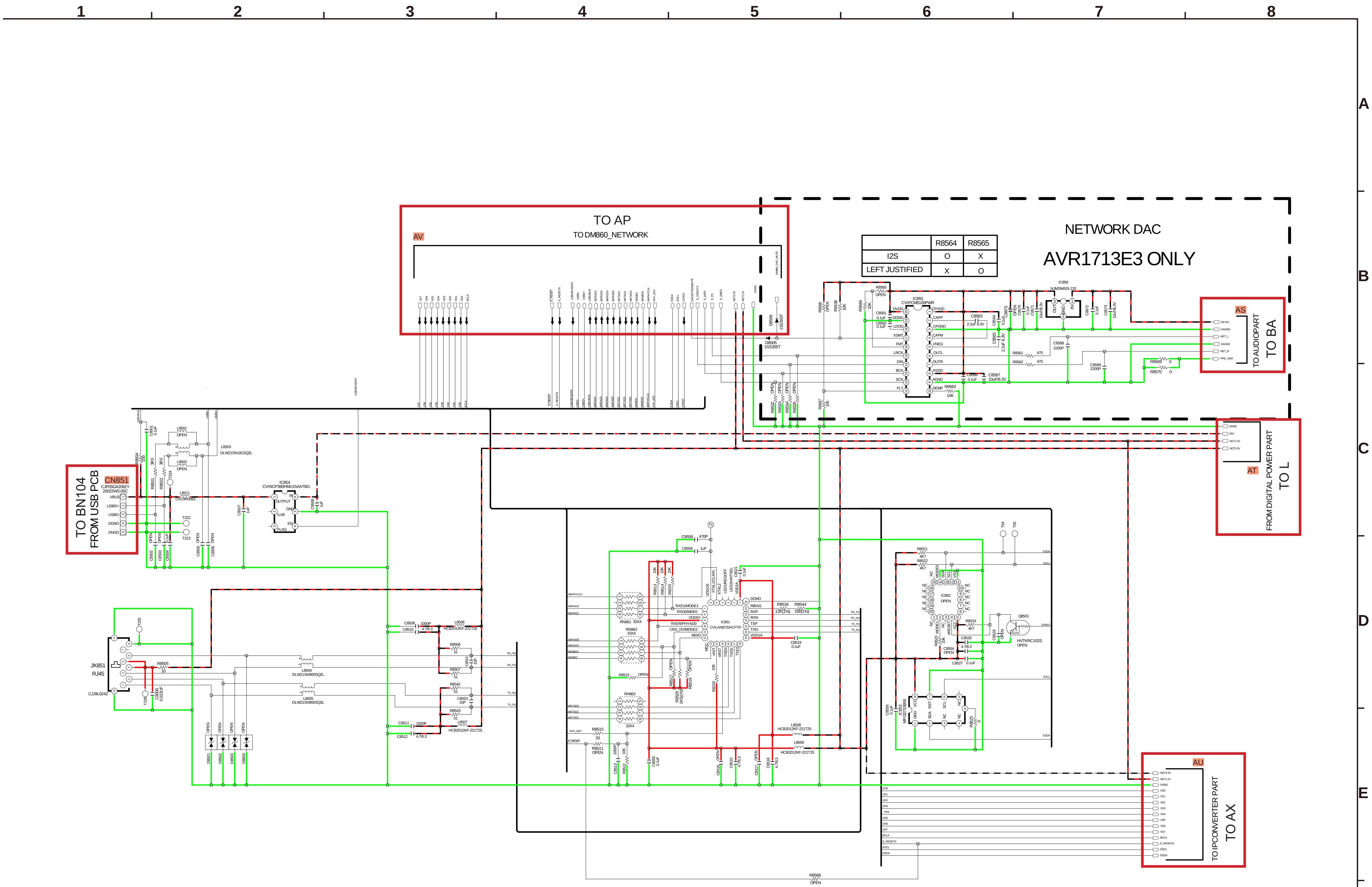
SCHEMATIC DIAGRAMS (12/17)
MAIN DAC PART



DM860_NETWORK PART

SCHEMATIC DIAGRAMS (13/17)

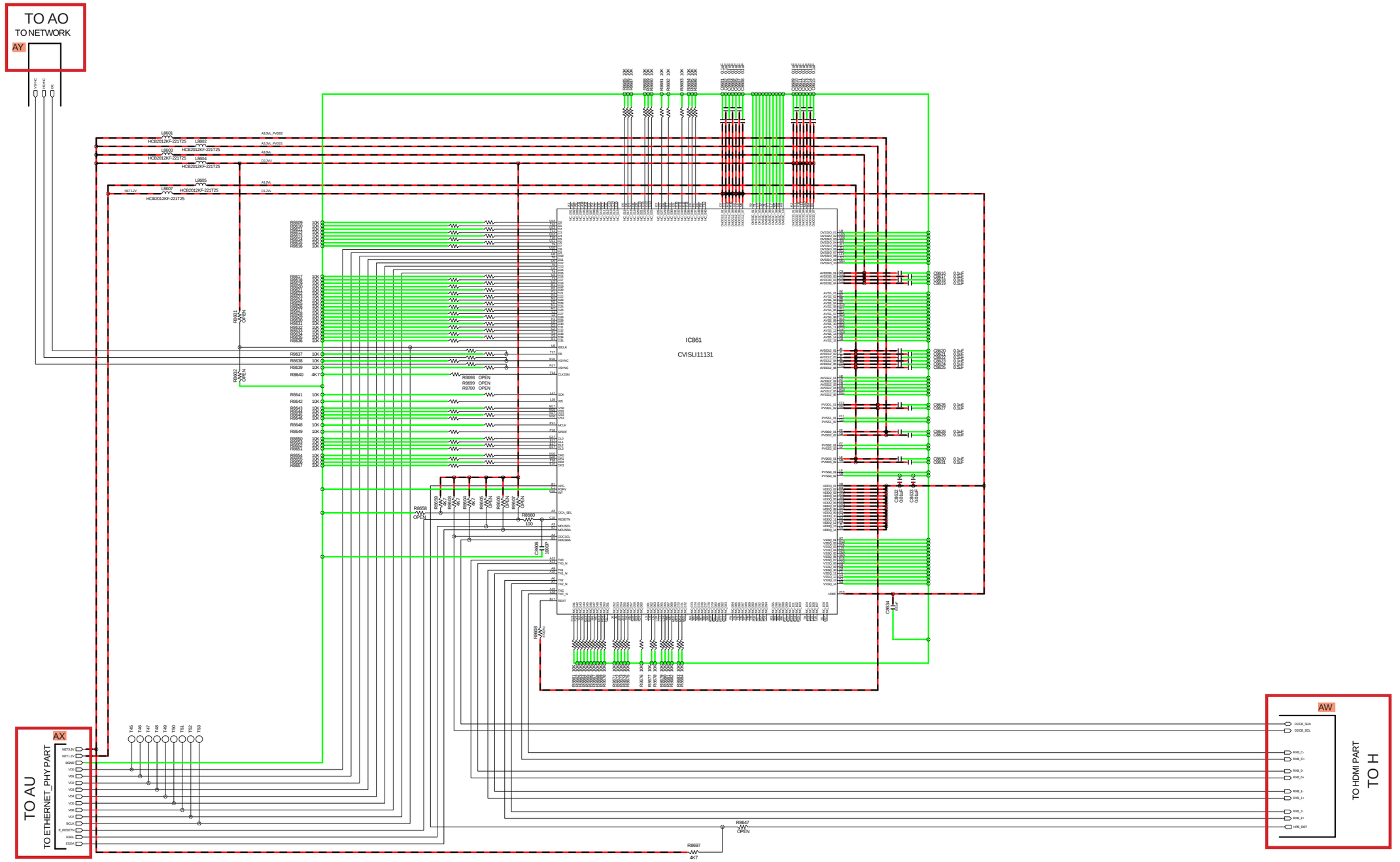
DM860_NETWORK PART



SCHEMATIC DIAGRAMS (14/17)

ETHERNET_PHY PART(1/2)

GND POWER + POWER - STBY POWER

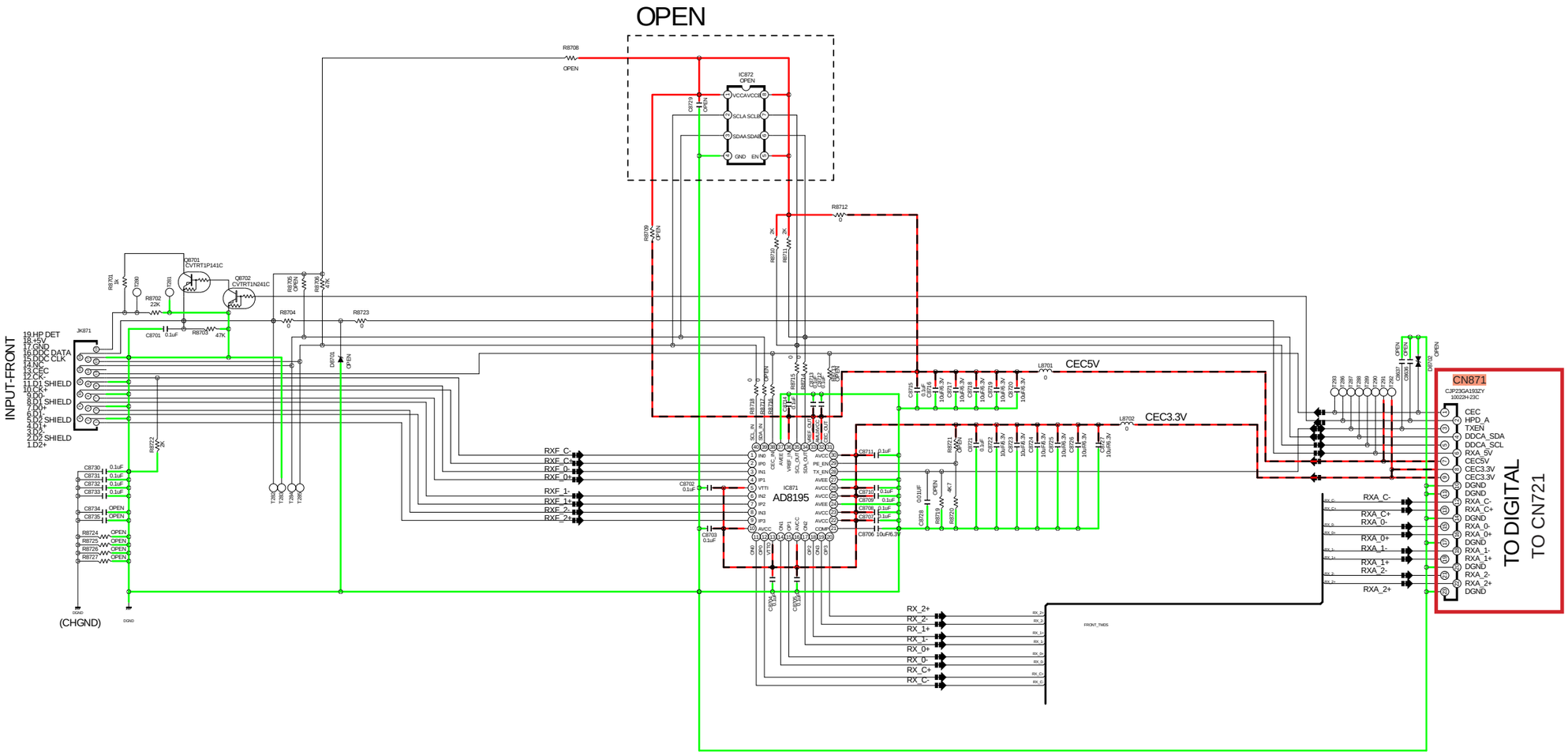


SCHEMATIC DIAGRAMS (15/17)

ETHERNET_PHY PART(2/2)

GND POWER + POWER - STBY POWER

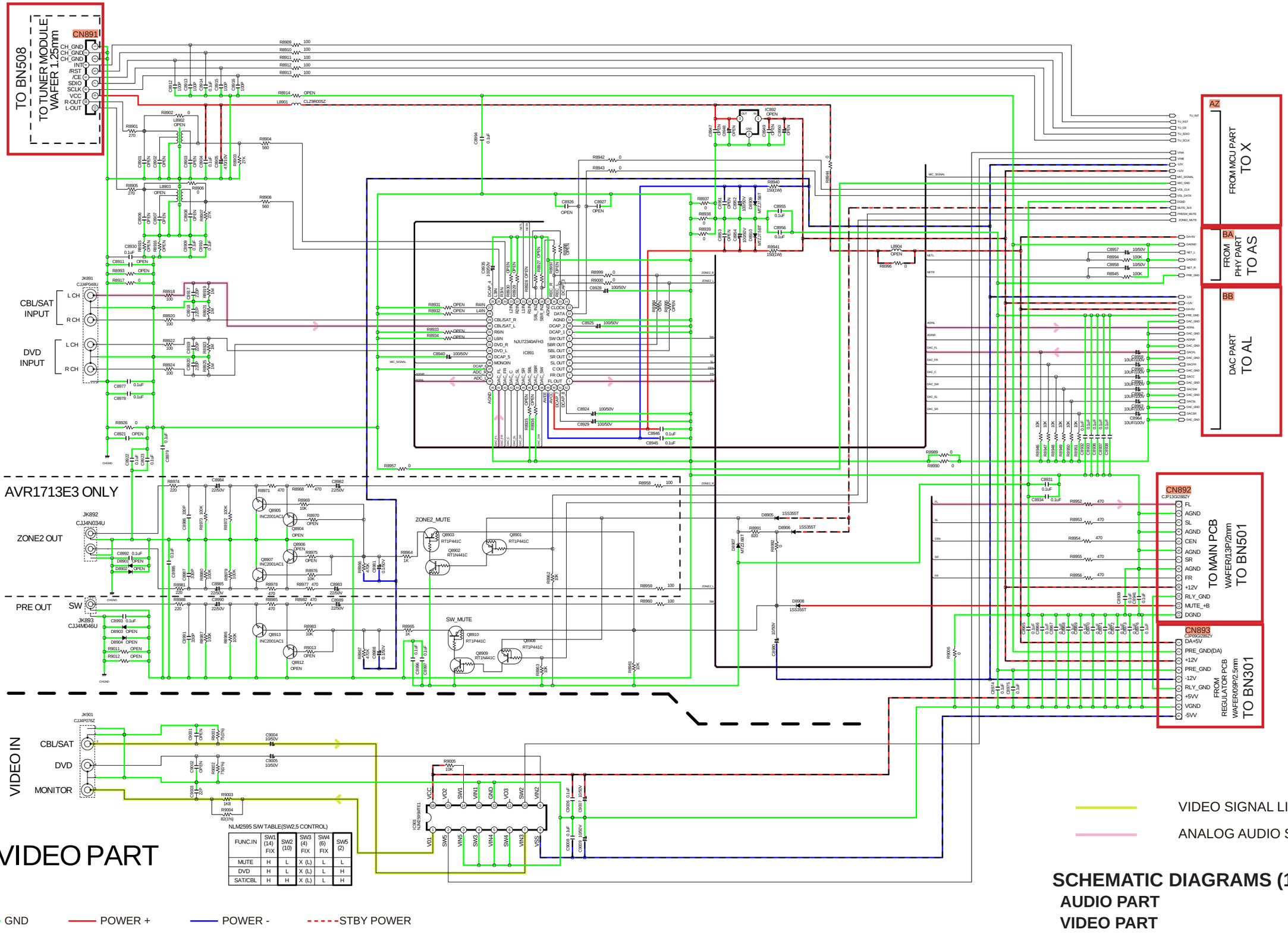
FRONT_HDMI PART



SCHEMATIC DIAGRAMS (16/17)
FRONT HDMI PART

GND POWER + POWER - STBY POWER

AUDIO PART

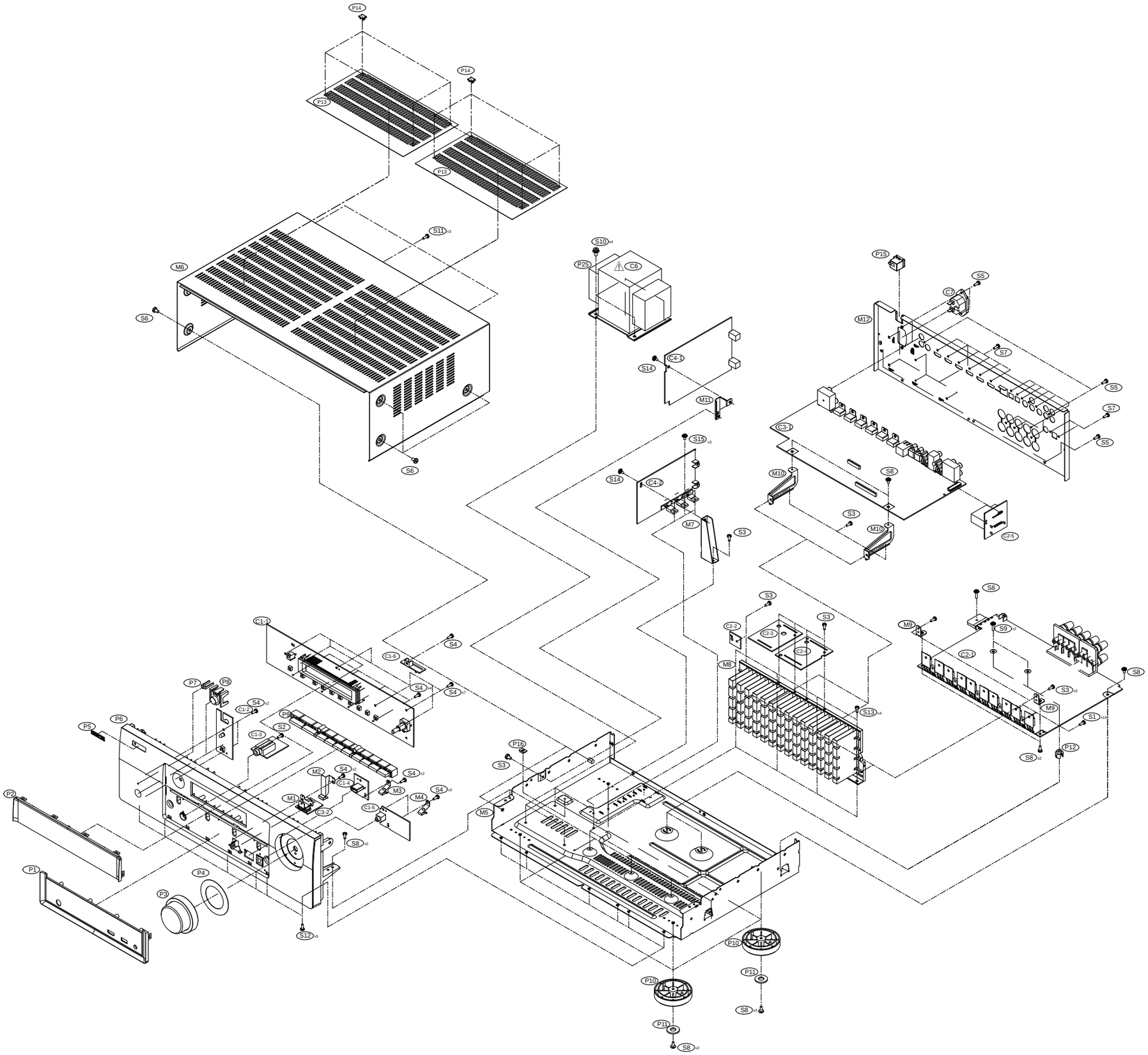


SCHEMATIC DIAGRAMS (17/17)

AUDIO PART

VIDEO PART

EXPLODED VIEW



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

PARTS LIST OF EXPLODED VIEW

∗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.

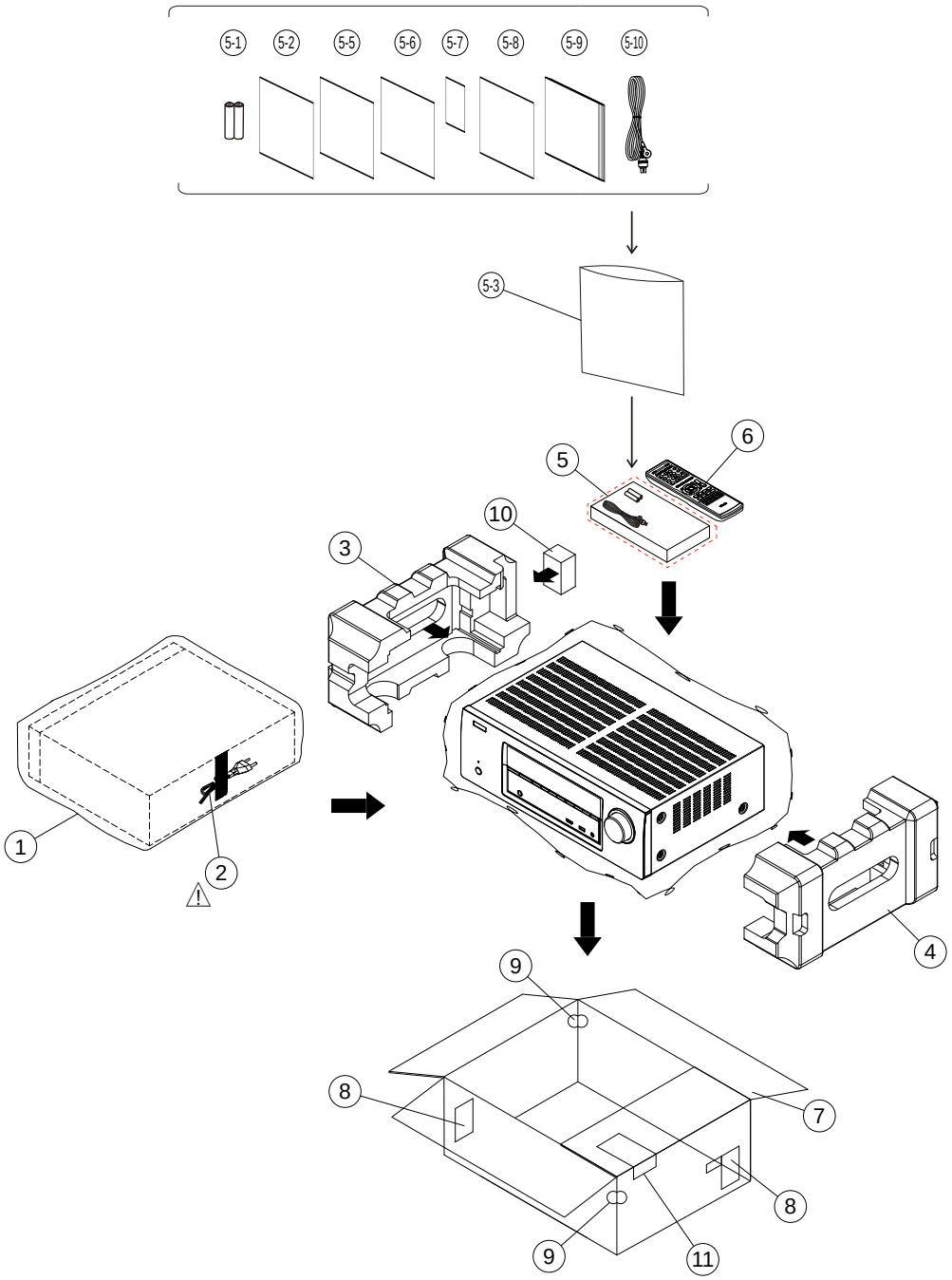
Note: The symbols in the column "Remarks" indicate the following destinations.
E3 : U.S.A. & Canada model E2 : Europe model
E1C : China model
BK : Black model SP : Premium Silver model

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C1	nsp	FRONT PCB ASS'Y	1613E3, 1713E3	COP12423D	1	*
	C1	nsp	FRONT PCB ASS'Y	1713E2	COP12423G	1	*
	C1	nsp	FRONT PCB ASS'Y	1713E1C, 1723E1C	COP12423E	1	*
	C1-1	-	FRONT PCB				
	C1-2	-	POWER KNOB PCB				
	C1-3	-	HEADPHONE PCB				
	C1-4	-	USB PCB				
	C1-5	-	MIC PCB				
	C1-6	-	FOR HDMI FFC CABLE PCB				
	C2	nsp	MAIN PCB ASS'Y	1613E3, 1713E3	COP12425E	1	*
	C2	nsp	MAIN PCB ASS'Y	1713E2	COP12425F	1	*
	C2	nsp	MAIN PCB ASS'Y	1713E1C, 1723E1C	COP12425G	1	*
	C2-1	-	MAIN PCB				
	C2-2	-	CABLE PCB				
	C2-3	-	HDMI CABLE PCB				
	C2-4	-	CARD CABLE FIX PCB				
	C2-5	-	TUNER PCB				
	C3	8U6391000600D	DIGITAL PCB ASS'Y	1613E3	COP12428B	1	*
	C3	8U6391000610D	DIGITAL PCB ASS'Y	1713E3	COP12428C	1	*
	C3	8U6391000620D	DIGITAL PCB ASS'Y	1713E2	COP12428D	1	*
	C3	8U6391000630D	DIGITAL PCB ASS'Y	1713E1C	COP12428E	1	*
	C3	8U6391000640D	DIGITAL PCB ASS'Y	1723E1C	COP12428G	1	*
	C3-1	-	DIGITAL PCB				
	C3-2	-	F-HDMI PCB				
	C4	nsp	POWER PCB ASS'Y	1613E3, 1713E3	COP12427B	1	*
	C4	nsp	POWER PCB ASS'Y	1713E2	COP12427C	1	*
	C4	nsp	POWER PCB ASS'Y	1713E1C, 1723E1C	COP12427D	1	*
	C4-1	-	SMPS PCB				
	C4-2	-	REGULATOR PCB				
⚠	C6	943101101320D	TRANS,POWER AVR1613/1713/E3,(85.8X63)	1613E3, 1713E3	CLT5U052ZU	1	*
⚠	C6	943101101330D	TRANS,POWER AVR1713/E2,(85.8X63)	1713E2	CLT5U052ZE	1	*
⚠	C6	943101101340D	TRANS,POWER AVR1713/1723/E1C,(85.8X63)	1713E1C, 1723E1C	CLT5U052ZH	1	*
	C7	nsp	ACSOCKET ASS'Y	1713E2	CWZPM5003TW91A	1	
	P1	943419100460D	PANEL, SUB		CGR1A534Z	1	*
	P2	943416100700D	WINDOW, FL	1713E3	CGU1A462X	1	*
	P2	943416100710D	WINDOW FL	1613E3, 1713E2, 1713E1C, 1723E1C	CGU1A462Y	1	*
	P3	943412100710D	KNOB, VOLUME	BK	CBN1A263	1	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	P3	943412100720D	KNOB, VOLUME	SP	CBN1A263C73	1	
	P4	943446100590D	PLATE, VOLUME KNOB		CGX1A469	1	
	P5	42151002100AD	DENON BADGE	BK	CGB1A247H67	1	
	P5	42151002101AD	DENON BADGE	SP	-	1	
	P6	943402102090D	PANEL, FRONT	1613BKE3	CGW1A520RHZB63	1	*
	P6	943402102100D	PANEL, FRONT	1713BKE3	CGW1A520RHYB63	1	*
	P6	943402102110D	PANEL, FRONT	1713BKE2	CGW1A520RHXB63	1	*
	P6	943402102120D	PANEL, FRONT	1713BKE1C	CGW1A520RHWB63	1	*
	P6	943402102130D	PANEL, FRONT	1713SPE1C	CGW1A520RGZG45	1	*
	P6	943402102140D	PANEL, FRONT	1723SPE1C	CGW1A520RGYG45	1	*
	P7	943423100310D	INDICATOR, POWER		CGL1A299	1	
	P8	943411101750D	BUTTON, POWER	BK	CBT1A1167	1	
	P8	943411101760D	BUTTON, POWER	SP	CBT1A1167C73	1	
	P9	943411101770D	BUTTON, 10KEY		CBT1A1164	1	
	P10	943407100020D	FOOT		CKL1A190	4	
	P11	00D9430202902	CUSHION, FOOT		CHG2A289	4	
	P12	nsp	HOLDER, PCB		CHE170	2	
	P13	943419100250D	SHEET,TOP	BK	CGX1A492Z	2	
	P13	943419100250D	SHEET,TOP	SP	CGX1A492Y	2	
	P14	45451000500AM	STOPPER, SHEET	BK	CMH1A306Z	8	
	P14	45451000501AM	STOPPER, SHEET	SP	CMH1A306Y	8	
	P15	nsp	BUSHING ,ACCORD	1613E3, 1713E3, 1713E1C, 1723E1C	CHR1A028	1	
	P16	nsp	RUBBER		CHG1A113	1	
	★ P17	nsp	CLAMPER		CHR301	5	
	★ P18	nsp	LOCKER		CRE1A037	10	
	★ P19	nsp	LABEL,HOT		CQB1A906Z	1	
	★ P20	nsp	LABEL,POP	1613BKE3	CQB1A1096Z	1	*
	★ P20	nsp	LABEL,POP	1713BKE3	CQB1A1097Z	1	*
	★ P20	nsp	LABEL,POP	1713BKE2	CQB1A1098Z	1	*
	★ P20	nsp	LABEL,POP	1713BKE1C, 1713SPE1C	CQB1A1100Z	1	*
	★ P20	nsp	LABEL,POP	1723SPE1C	CQB1A1102Z	1	*
	★ P21	nsp	TAPE,HEMELON		CHS1A032	3	
	M1	nsp	EARTH,HDMI		CMC1A422	1	
	M2	nsp	EARTHPLATE, HDMI		CMC1A431	1	
	M3	nsp	EARTHPLATE, USB		CMC1A430	1	
	M4	nsp	EARTHPLATE, MIC		CMC1A429	1	*
	M5	nsp	CHASSIS, BOTTOM		CUA1A335	1	
	M6	943403100570D	CABINET,TOP	BK	CKC1A215K117	1	
	M6	943403100580D	CABINET,TOP	SP	CKC1A215D11	1	
	M7	nsp	BRACKET,PCB		CMD1A398	1	
	M8	nsp	HEATSINK		CMY6A381	1	
	M9	nsp	BRACKET, H/S PCB		CMD1A802	2	
	M10	nsp	BRACKET, PCB		CMD1A803	2	
	M11	nsp	SMPS, BRACKET		CMD1A790	1	
	M12	nsp	PANEL, REAR	1613BKE3	CKF1A455Z	1	*
	M12	nsp	PANEL, REAR	1713BKE3	CKF2A455Z	1	*
	M12	nsp	PANEL, REAR	1713BKE2	CKF3A455Z	1	*
	M12	nsp	PANEL, REAR	1713BKE1C, 1713SPE1C	CKF1A455Y	1	*
	M12	nsp	PANEL, REAR	1723SPE1C	CKF1A455X	1	*

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SCREWS							
	S1	nsp	SCREW, SPECIAL		CHD1A012ZR	15	
	S2	nsp	SCREW		CTWS3+10GR	1	
	S3	nsp	SCREW		CTB3+6JR	13	
	S4	nsp	SCREW		CTB3+10JR	19	
	S5	nsp	SCREW		CTBD3+8JFZR	15	
	S6	nsp	SCREW	BK	CTBD4+8JFZR	6	
	S6	nsp	SCREW	SP	CTBD4+8JFN	6	
	S7	nsp	SCREW		CTBD3+6FFZR	12	
	S8	nsp	SCREW		CTW3+8JR	14	
	S9	nsp	SCREW		CTW3+12JR	2	
	S10	nsp	SCREW,TRANS		CHDR1A023R	4	
	S11	nsp	SCREW	BK	CTB3+8JFZR	3	
	S11	nsp	SCREW	SP	CTB3+8JFN	3	
	S12	nsp	SCREW	BK	CTBD3+8JFZR	6	
	S12	nsp	SCREW	SP	CTBD3+8JFN	6	
	S13	nsp	SCREW		CTB3+6FR	4	
	S14	nsp	SCREW		CTW3+6JR	2	
	S15	nsp	SCREW,SPECIAL		CHD4A012R	3	
WIRES							
	H1	943606501550S	CARD,CABLE		CWC5C4A25B180B10	1	
	H2	943606501560S	CARD,CABLE		CWC5F4A23A270B08	1	
	H3	nsp	WIRE,ASS'Y		CWE8102050RR	1	

PACKING VIEW



PARTS LIST OF PACKING & ACCESSORIES

∗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.

Note: The symbols in the column "Remarks" indicate the following destinations.
E3 : U.S.A. & Canada model E2 : Europe model
E1C : China model
BK : Black model SP : Premium Silver model

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	1	nsp	BAG,POLY		CPP1A081X	1	
⚠	2	90M-YC000780R	CORD,POWER(U/L)/KENIC	1613E3, 1713E3	CJA523FBYA	1	
⚠	2	90M-ZC000320R	CORD,POWER(DETACHABLE/EUR)	1713E2	CJA2B054Z	1	
⚠	2	90M-YC000850R	CORD,POWER	1713E1C, 1723E1C	CJA2N047ZA	1	
	3	943533101120D	PAD,SNOW(L)		CPS1A916	1	

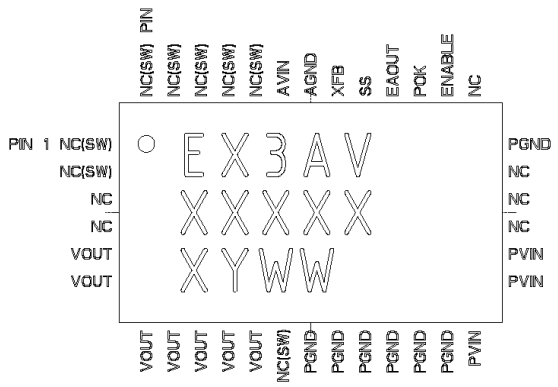
	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	4	943533101130D	PAD,SNOW(R)		CPS1A917	1	
	5	-	INSTRUCTIONMANUALASS'Y		-	1	
	5-1	nsp	BATTERY,AAA2PCSINPACK		CABR03PPB	2	
	5-2	35201006600AD	CDMANUALASS'Y	1613E3	CFT1A052ZA	1	*
	5-2	35201006500AD	CDMANUALASS'Y	1713E3	CFT1A053ZA	1	*
	5-2	35201006700AD	CDMANUALASS'Y	1713E2	CFT1A054ZA	1	*
	5-2	35201006800AD	CDMANUALASS'Y	1713E1C, 1723E1C	CFT1A055ZA	1	*
	5-2	35201006900AD	CDMANUALASS'Y	1723E1C	CFT1A057ZA	1	*
	5-3	nsp	BAG,POLY(MANUAL)		CPB1A197Z	1	
	★ 5-4	nsp	LABEL,BARCODE(MANUAL)		CQB1A971	1	
	5-5	nsp	LIST,S.S		CQE1A226P	1	
	5-6	nsp	CARD,WARRANTY	1613BKE3, 1713BKE3	CQE1A224Q	1	
	5-7	nsp	CARD FOR CHINA INDENTIFICATION	1713E1C, 1723E1C	CQE1A450Z	1	
	5-8	54111092900AD	SAFETY INSTRUCTIONS(E3)	1613E3, 1713E3	CQE1A548Z	1	*
	5-8	54111093000AD	SAFETY INSTRUCTIONS (E2)	1713E2	CQE1A549Z	1	
	5-8	54111093100AD	SAFETY INSTRUCTIONS (E1C)	1713E1C, 1723E1C	CQE1A550Z	1	
	5-9	54111076000AD	MANUAL,GUIDE	1613E3	CQX1A1648Z	1	*
	5-9	54111075900AD	MANUAL,GUIDE	1713E3	CQX1A1649Z	1	*
	5-9	54111076100AD	MANUAL,GUIDE	1713E2	CQX1A1650Z	1	*
	5-9	54111076200AD	MANUAL,GUIDE	1713E1C	CQX1A1651Z	1	*
	5-9	54111076300AD	MANUAL,GUIDE	1723E1C	CQX1A1653Z	1	*
	5-10	90M-ZA000230R	FM1POLEANT(UL)	1613E3, 1713E3, 1713E1C, 1723E1C	CSA1A019Z	1	
	5-10	00D9430113403	FM1POLEANT	1713E2	CSA1A018Z	1	
	6	30701010300AD	REMOCONASS'Y(RC-1168)	1713E3	RC-1168CF1	1	*
	6	30701010200AD	REMOCONASS'Y(RC-1169)	1613E3, 1713E2, 1713E1C, 1723E1C	RC-1169CF1	1	*
	7	943531102270D	BOX,OUTCARTON	1613E3	CPG1A963Y	1	*
	7	943531102280D	BOX,OUTCARTON	1713E3	CPG1A963X	1	*
	7	943531102290D	BOX,OUTCARTON	1713E2	CPG1A962U	1	*
	7	943531102300D	BOX,OUTCARTON	1713E1C	CPG1A962T	1	*
	7	943531102310D	BOX,OUTCARTON	1723E1C	CPG1A962R	1	*
	8	nsp	CONTROL,LABEL		CQB1A993Z	1	
	9	nsp	LABEL ,COLORLABEL(WHITE)	1713SPE1C, 1723SPE1C	CQB1A676	2	
	10	32401000800AD	MIC AUDYSSEY ACM1HB		CJXACM1HB	1	
	11	nsp	WARRANTYCARD CHINA	1713E1C, 1723E1C	CQE1A473Y	1	
	★ 12	nsp	LABEL,BARCODE(SET)		CQB1A978	1	

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

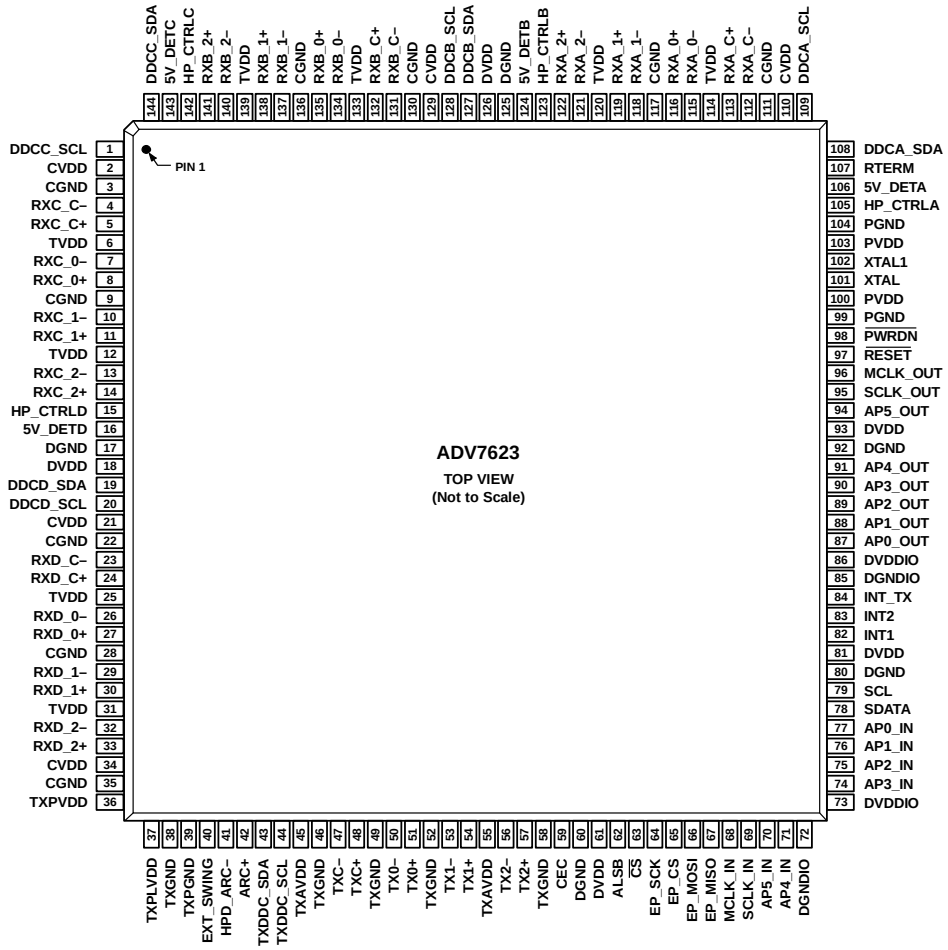
EX3AV (DIGITAL : IC751~154)



EX3AV Terminal Functions

PIN	NAME	FUNCTION
1-2, 12, 26, 34-38	NC(SW)	NO CONNECT – These pins are internally connected to the common switching node of the internal MOSFETs. They are not to be electrically connected to any external signal, ground, or voltage. Failure to follow this guideline may result in damage to the device.
3-4, 22-25	NC	NO CONNECT – These pins may be internally connected. Do not connect them to each other or to any other electrical signal. Failure to follow this guideline may result in device damage.
5-11	VOUT	Regulated converter output. Connect these pins to the load, and place output capacitor from these pins and PGND pins 13-15
13-18	PGND	Input/Output power ground. Connect these pins to the ground electrode of the Input and output filter capacitors. See VOUT and PVIN pin descriptions for more details.
19-21	PVIN	Input power supply. Connect to input power supply. Decouple with input capacitor to PGND pins 16-18.
27	ENABLE	Input Enable. Applying logic high enables the output and initiates a soft-start. Applying a logic low disables the output.
28	POK	Power OK is an open drain transistor for power system state indication. POK will be logic high when VOUT is with -10% to +20% of VOUT nominal.
29	EAOUT	Optional Error Amplifier output. Allows for customization of the control loop response.
30	SS	Soft-Start node. The soft-start capacitor is connected between this pin and AGND. The value of this capacitor determines the startup time.
31	XFB	External Feedback Input. The feedback loop is closed through this pin. A voltage divider at VOUT is used to set the output voltage. The mid point of the divider is connected to XFB. A phase lead capacitor from this pin to VOUT is also required to stabilize the loop.
32	AGND	Analog Ground. This is the Ground return for the controller. Needs to be connected to a quiet ground.
33	AVIN	Input power supply for the controller. Needs to be connected to input voltage at a quiet point.

ADV7623 (DIGITAL : IC721)



Pin Function Descriptions

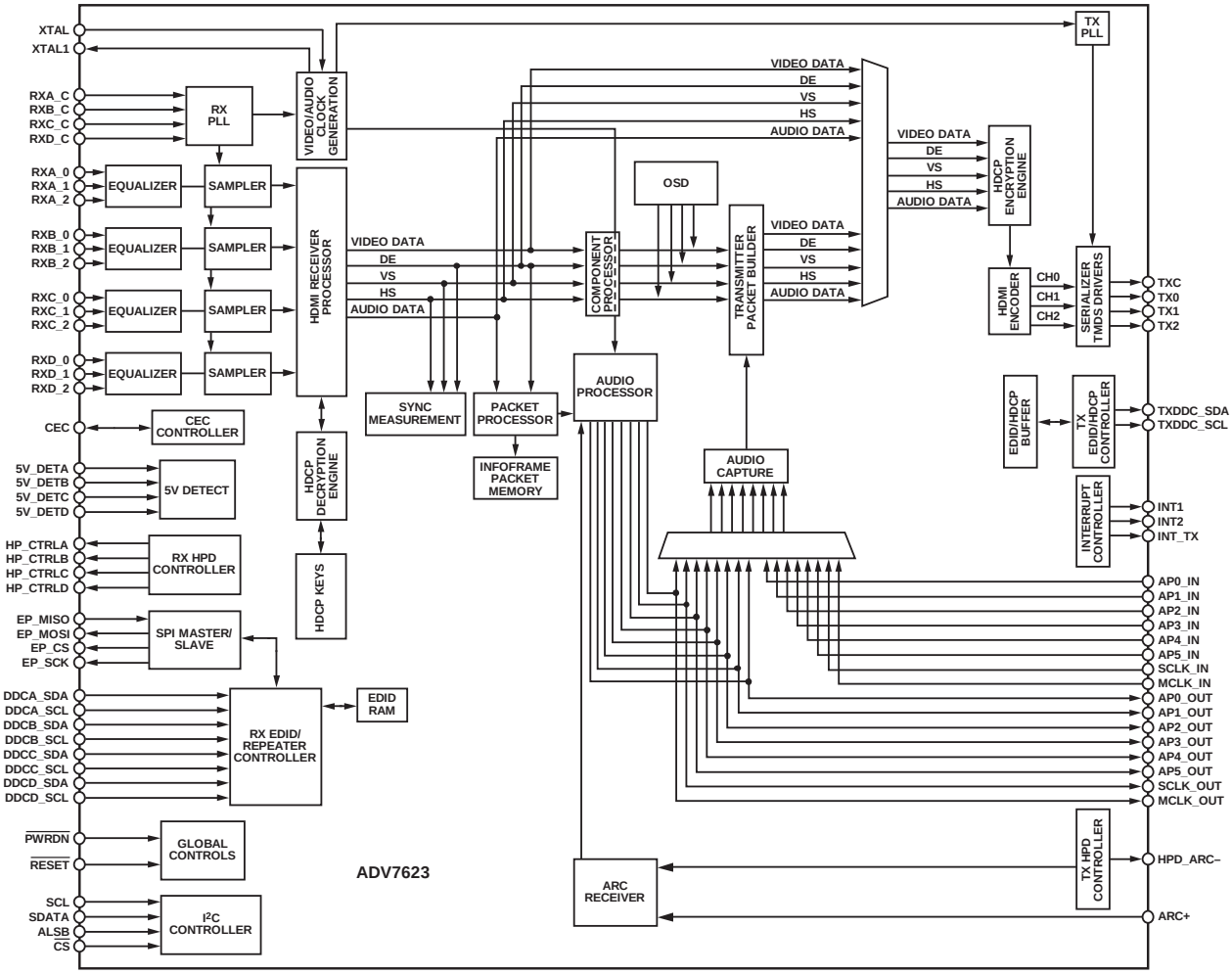
Pin No.	Mnemonic	Type	Description
1	DDCC_SCL	Digital input	HDCP Slave Serial Clock Port C. DDCC_SCL is a 3.3 V input that is 5 V tolerant.
2	CVDD	Power	Receiver Comparator Supply Voltage (1.8 V).
3	CGND	Ground	TVDD and CVDD Ground.
4	RXC_C–	HDMI input	Digital Input Clock Complement of Port C in the HDMI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

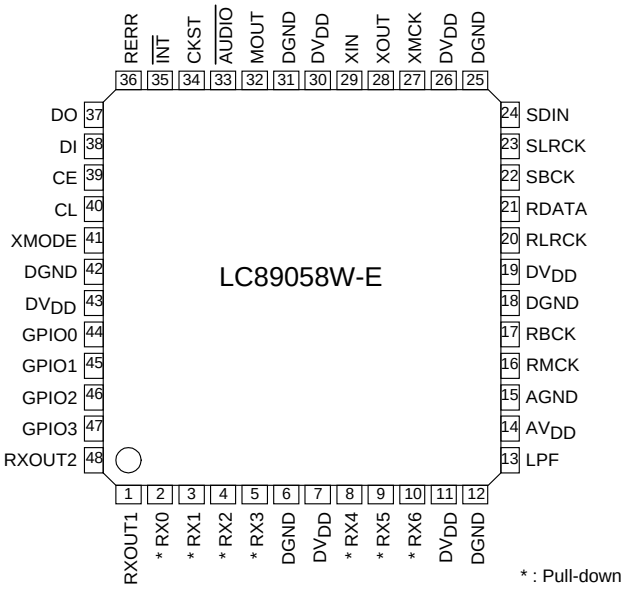
Pin No.	Mnemonic	Type	Description
13	RXC_2−	HDMI input	Digital Input Channel 2 Complement of Port C in the HDMI Interface.
14	RXC_2+	HDMI input	Digital Input Channel 2 True of Port C in the HDMI Interface.
15	HP_CTRLD	Digital output	Hot Plug Detect for Port D.
16	5V_DETD	Digital input	5 V Detect Pin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



LC89058W-E (DIGITAL : IC782)



* : Pull-down resistor internal at no selection

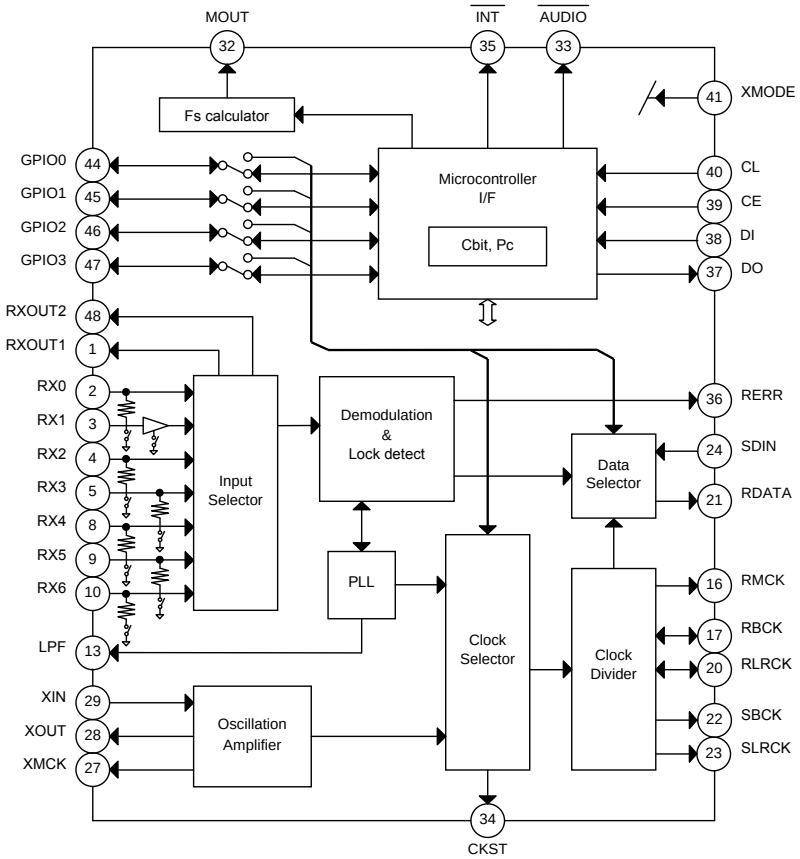
Pin Functions

Pin No.	Name	I/O	Function
1	RXOUT1	O	RX0-6 input S/PDIF through output pin 1
2	RX0	I_5(pd)	5V withstand voltage TTL input level compatible S/PDIF input pin (connected to GND when RX1 is set)
3	RX1	I(pd)	Co-axial compatible S/PDIF input pin (supported demodulation sampling frequency of up to 96kHz)
4	RX2	I_5(pd)	5V withstand voltage TTL input level compatible S/PDIF input pin (connected to GND when RX1 is set)
5	RX3	I_5(pd)	5V withstand voltage TTL input level compatible S/PDIF input pin
6	DGND		Digital GND
7	DV_{DD}		Digital power supply (3.3V)
8	RX4	I_5(pd)	5V tolerable TTL input level compatible S/PDIF input pin
9	RX5	I_5(pd)	5V tolerable TTL input level compatible S/PDIF input pin
10	RX6	I_5(pd)	5V tolerable TTL input level compatible S/PDIF input pin
11	DV_{DD}		Digital power supply (3.3V)
12	DGND		Digital GND
13	LPF	O	PLL loop filter connection pin
14	AV_{DD}		Analog power supply (3.3V)
15	AGND		Analog GND
16	RMCK	O	R system clock output pin (VCO, 512fs, XIN)
17	RBCK	O/I	R system bit clock I/O pin (64fs)
18	DGND		Digital GND
19	DV_{DD}		Digital power supply (3.3V)
20	RLRCK	O/I	R system LR clock I/O pin (fs)
21	RDATA	O	Serial audio data output pin
22	SBCK	O	S system bit clock output pin (16fs, 32fs, 64fs, 128fs)
23	SLRCK	O	S system LR clock output pin (fs/4, fs/2, fs, 2fs)
24	SDIN	I_5	External serial audio data input pin

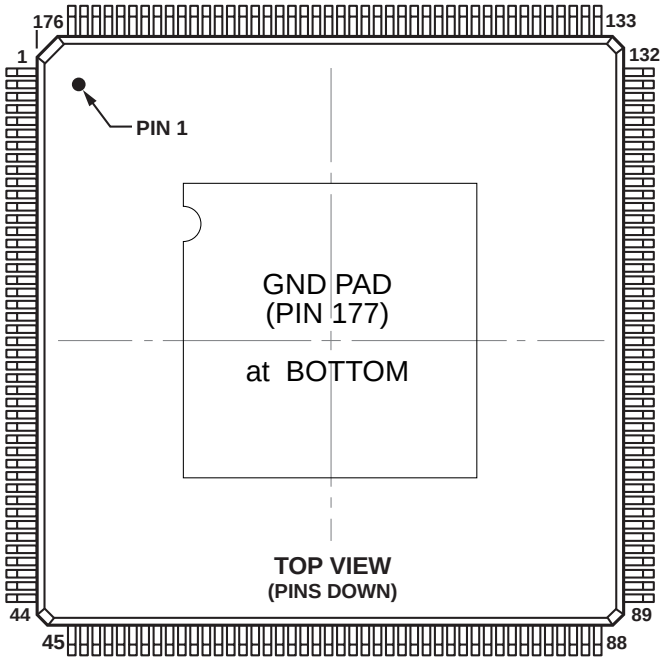
Pin No.	Name	I/O	Function
25	DGND		Digital GND
26	DV_{DD}		Digital power supply (3.3V)
27	XMCK	O	Oscillation amplifier clock output pin
28	XOUT	O	Output pin connected to the resonator
29	XIN	I	External clock input pin, connected to the resonator (12.288MHz/24.576MHz)
30	DV_{DD}		Digital power supply
31	DGND		Digital GND
32	MOUT	I/O	Emphasis information || Input fs monitor output || Chip address setting input pin
33	$\overline{AUDIO}$	I/O	Channel status bit 1 output || Chip address setting input pin
34	CKST	I/O	Clock switching transition period signal output || Master/slave setting input pin
35	$\overline{INT}$	I/O	Microcontroller interrupt signal output || Pins44-48 I/O setting input pin
36	RERR	O	PLL lock error, data error flag output pin
37	DO	O	CCB microcontroller I/F, read data output pin (3-state)
38	DI	I_5	CCB microcontroller I/F, write data input pin
39	CE	I_5	CCB microcontroller I/F, chip enable input pin
40	CL	I_5	CCB microcontroller I/F, clock input pin
41	XMODE	I_5	System reset input pin
42	DGND		Digital GND
43	DV_{DD}		Digital power supply (3.3V)
44	GPIO0	O/I	General-purpose I/O pin || Selector input pin (output referred to RDATA pin)
45	GPIO1	O/I	General-purpose I/O pin || Selector input pin (output referred to RLRCK pin)
46	GPIO2	O/I	General-purpose I/O pin || Selector input pin (output referred to RBCK pin)
47	GPIO3	O/I	General-purpose I/O pin || Selector input pin (output referred to RMCK pin)
48	RXOUT2	O	RX0-6 input S/PDIF through output pin 2

* Input voltage: I= -0.3 to 3.6V, I_5 = -0.3 to 5.5V
* Output voltage: O= -0.3 to 3.6V
* Pins 2, 4, 5, 8, 9, 10, 24, 38, 39, 40, and 41 have an internal pull-down resistor (pd).
  Their level is fixed when they are unselected.
* Pins 32 and 33 are input pins for chip address setting when pin 41 is held at the low level.
* Pin 34 serves as the input pin for designating as the master or slave when pin 41 is held at the low level.
* Pin 35 serves as the input pin for configuring the I/O of pins 44 to 47 when pin 41 is held at the low level.
* The DV_{DD} and AV_{DD} pins must be held at the same level and turned on and off at the same timing to preclude Latch-up conditions.

LC89058W-E Block diagram



ADSP21487KSWZ-2B (DIGITAL : IC791)

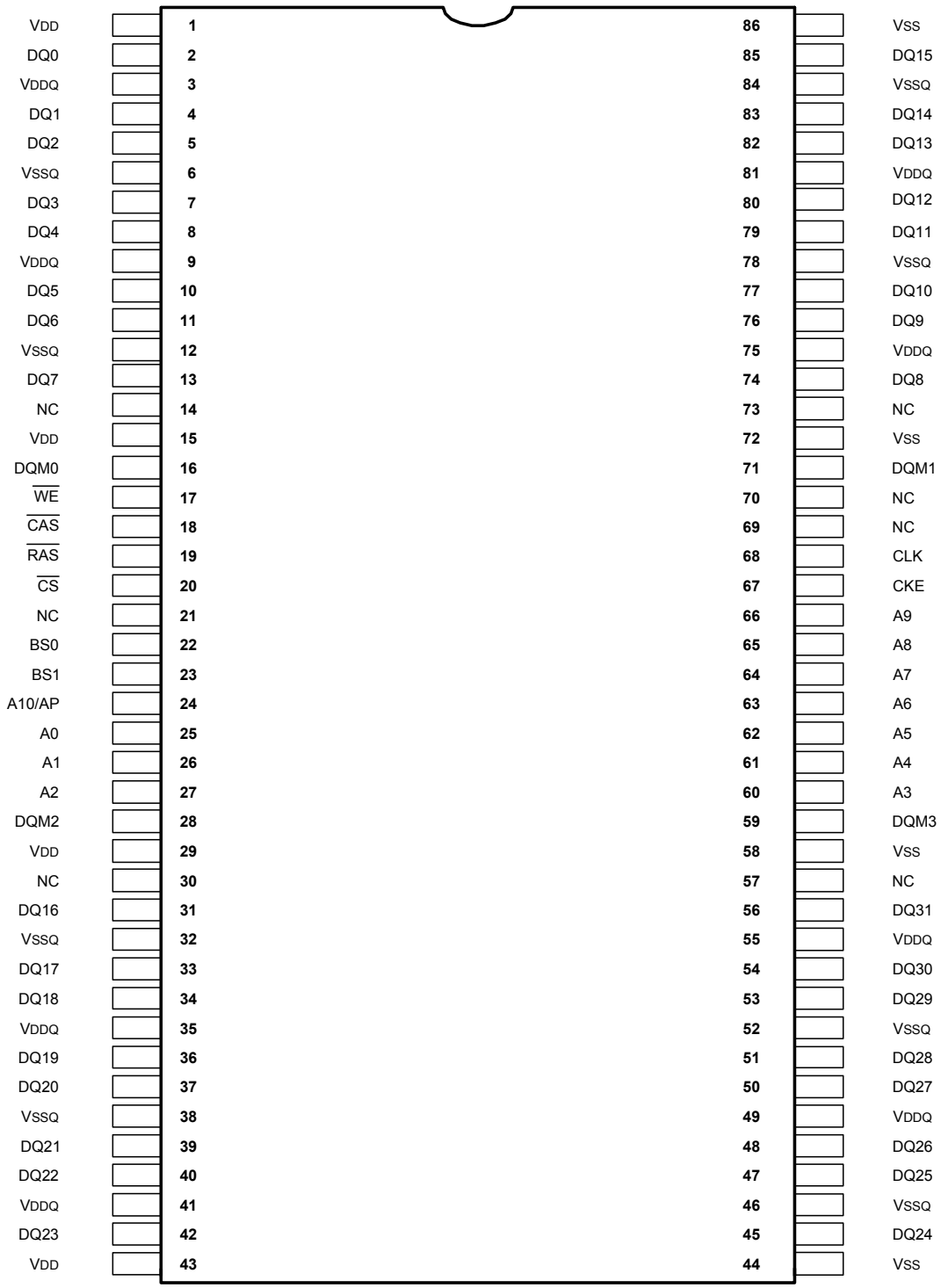


ADSP21487KSWZ-2B Terminal Function

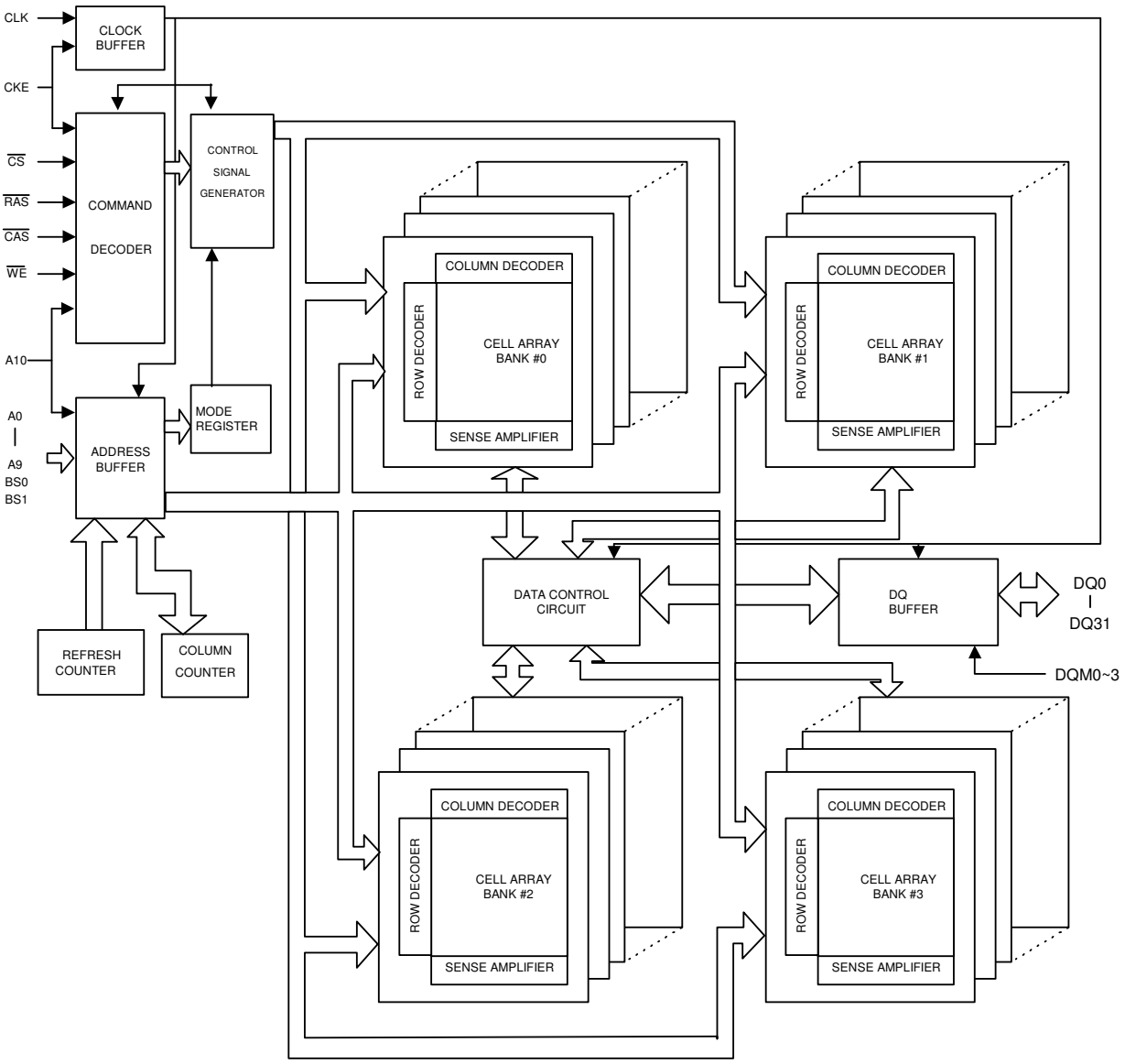
Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.
SDDQM	1	V_{DD_EXT}	45	DAI_P10	89	V_{DD_INT}	133
$\overline{MS0}$	2	DPI_P08	46	V_{DD_INT}	90	FLAG0	134
SDCKE	3	DPI_P07	47	V_{DD_EXT}	91	FLAG1	135
V_{DD_INT}	4	V_{DD_INT}	48	DAI_P20	92	FLAG2	136
CLK_CFG1	5	DPI_P09	49	V_{DD_INT}	93	NC	137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



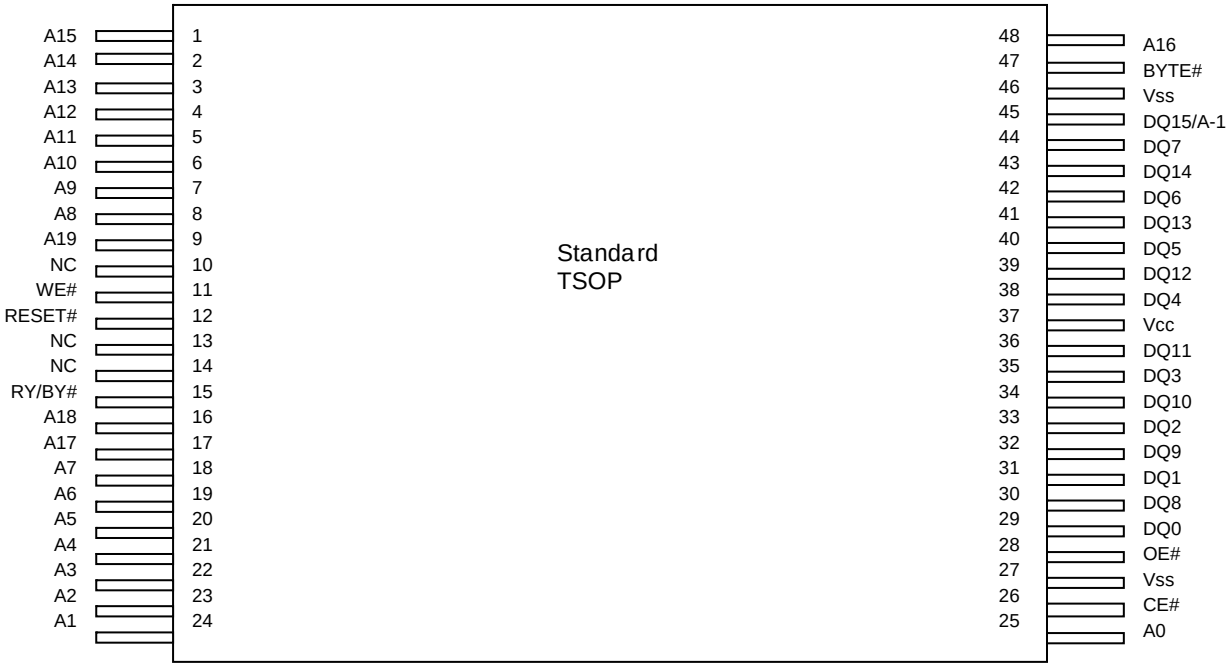
W9864G6JH-6 Block diagram



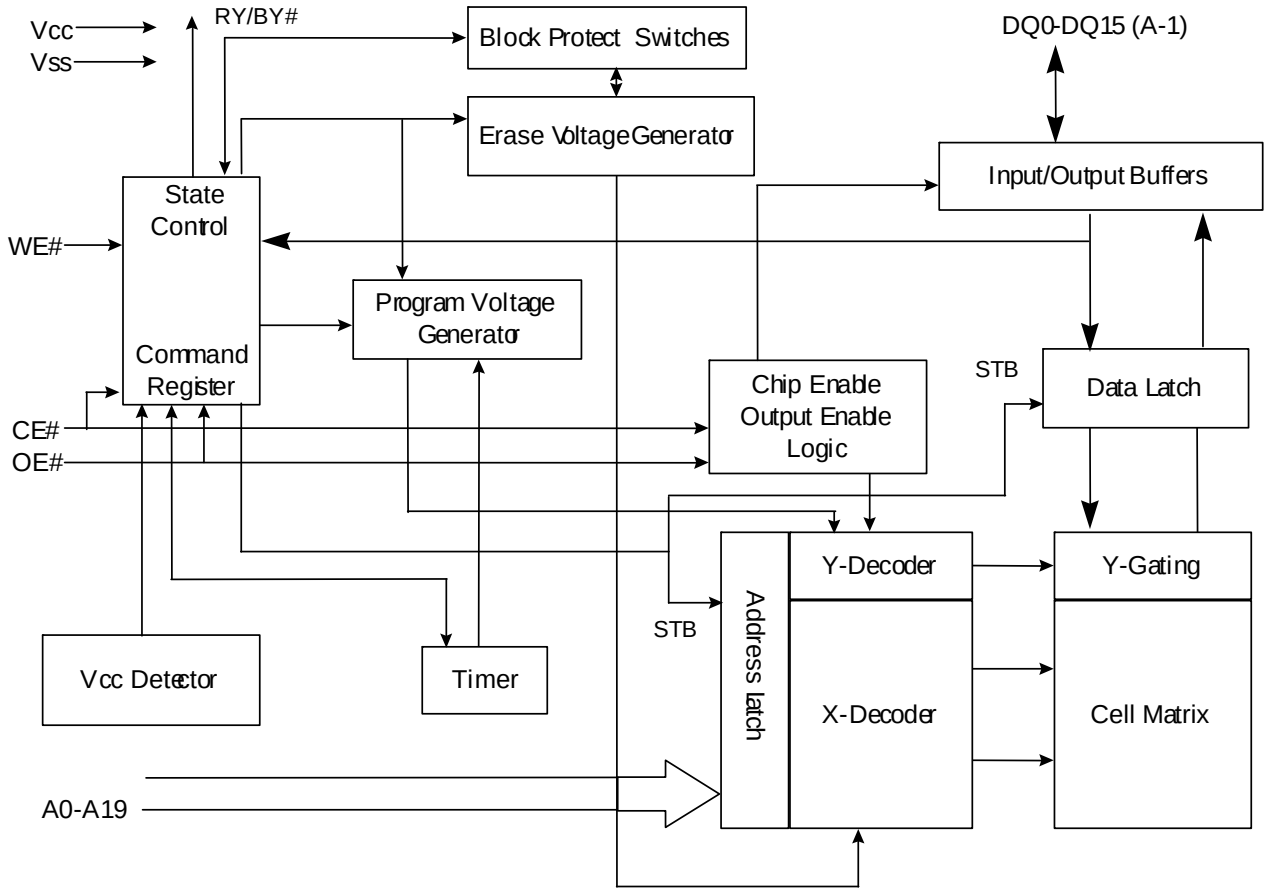
W9864G6JH-6 Pin description

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.

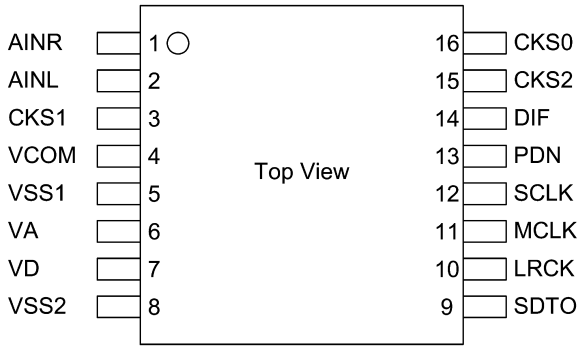
MX29LV160DBTI-70G (DIGITAL : IC793)



MX29LV160DBTI-70G Block Diagram



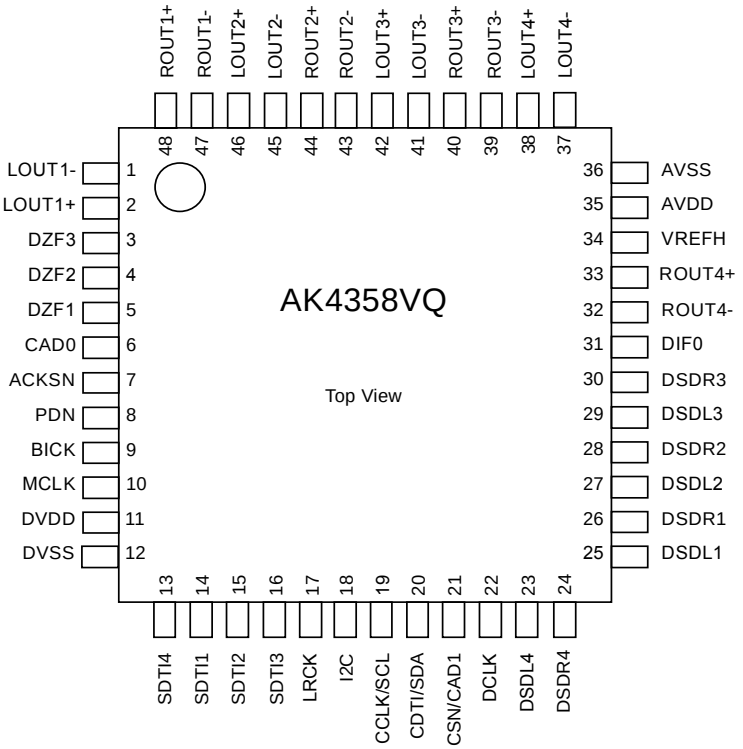
AK5358BET (DIGITAL : IC811)



AK5358BET Pin Function

No.	Pin Name	I/O	Function
1	AINR	I	Rch Analog Input Pin
2	AINL	I	Lch Analog Input Pin
3	CKS1	I	Mode Select 1 Pin
4	VCOM	O	Common Voltage Output Pin, VA/2 Bias voltage of ADC input.
5	VSS1	-	Ground Pin
6	VA	-	Analog Power Supply Pin, 4.5 ~ 5.5V
7	VD	-	Digital Power Supply Pin, 2.7 ~ 5.5V
8	VSS2	-	Ground Pin
9	SDTO	O	Audio Serial Data Output Pin "L" Output at Power-down mode.
10	LRCK	I/O	Output Channel Clock Pin "L" Output in Master Mode at Power-down mode.
11	MCLK	I	Master Clock Input Pin
12	SCLK	I/O	Audio Serial Data Clock Pin "L" Output in Master Mode at Power-down mode.
13	PDN	I	Power Down Mode & Reset Pin "H": Power up, "L": Power down & Reset
14	DIF	I	Audio Interface Format Pin "H": 24bit I^2S Compatible, "L": 24bit MSB justified
15	CKS2	I	Mode Select 2 Pin
16	CKS0	I	Mode Select 0 Pin

AK4358VQ (DIGITAL : IC812)



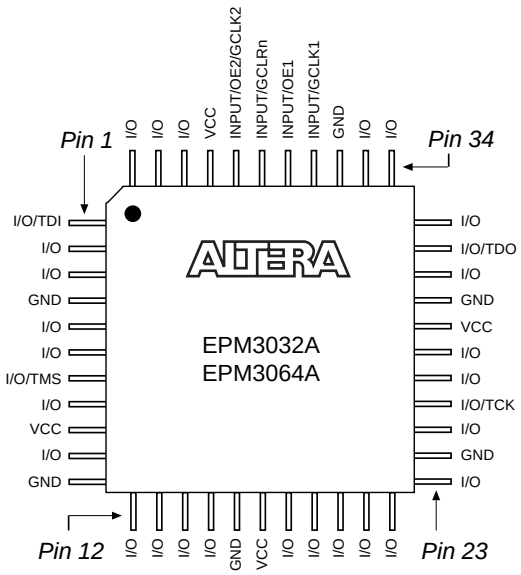
AK4358VQ Pin Function

No.	Pin Name	I/O	Function
1	LOUT1-	O	DAC1 Lch Negative Analog Output Pin
2	LOUT1+	O	DAC1 Lch Positive Analog Output Pin
3	DZF3	O	Zero Input Detect 3 Pin
4	DZF2	O	Zero Input Detect 2 Pin
5	DZF1	O	Zero Input Detect 1 Pin
6	CAD0	I	Chip Address 0 Pin
7	ACKSN	I	Auto Setting Mode Disable Pin (Pull-down Pin) "L": Auto Setting Mode, "H": Manual Setting Mode
8	PDN	I	Power-Down Mode Pin When at "L", the AK4358 is in the power-down mode and is held in reset. The AK4358 should always be reset upon power-up.
9	BICK	I	Audio Serial Data Clock Pin
10	MCLK	I	Master Clock Input Pin An external TTL clock should be input on this pin.
11	DVDD	-	Digital Power Supply Pin, +4.75~+5.25V
12	DVSS	-	Digital Ground Pin
13	SDTI4	I	DAC4 Audio Serial Data Input Pin
14	SDTI1	I	DAC1 Audio Serial Data Input Pin
15	SDTI2	I	DAC2 Audio Serial Data Input Pin
16	SDTI3	I	DAC3 Audio Serial Data Input Pin
17	LRCK	I	L/R Clock Pin
18	I2C	I	Control Mode Select Pin "L": 3-wire Serial, "H": I^2C Bus
19	CCLK/SCL	I	Control Data Clock Pin I2C = "L": CCLK (3-wire Serial), I2C = "H": SCL (I^2C Bus)
20	CDTI/SDA	I/O	Control Data Input Pin I2C = "L": CDTI (3-wire Serial), I2C = "H": SDA (I^2C Bus)
21	CSN/CAD1	I	Chip Select Pin I2C = "L": CSN (3-wire Serial), I2C = "H": CAD1 (I^2C Bus)
22	DCLK	I	DSD Clock Pin
23	DSDL4	I	DAC4 DSD Lch Data Input Pin
24	DSDR4	I	DAC4 DSD Rch Data Input Pin
25	DSDL1	I	DAC1 DSD Lch Data Input Pin
26	DSDR1	I	DAC1 DSD Rch Data Input Pin
27	DSDL2	I	DAC2DSD Lch Data Input Pin
28	DSDR2	I	DAC2 DSD Rch Data Input Pin

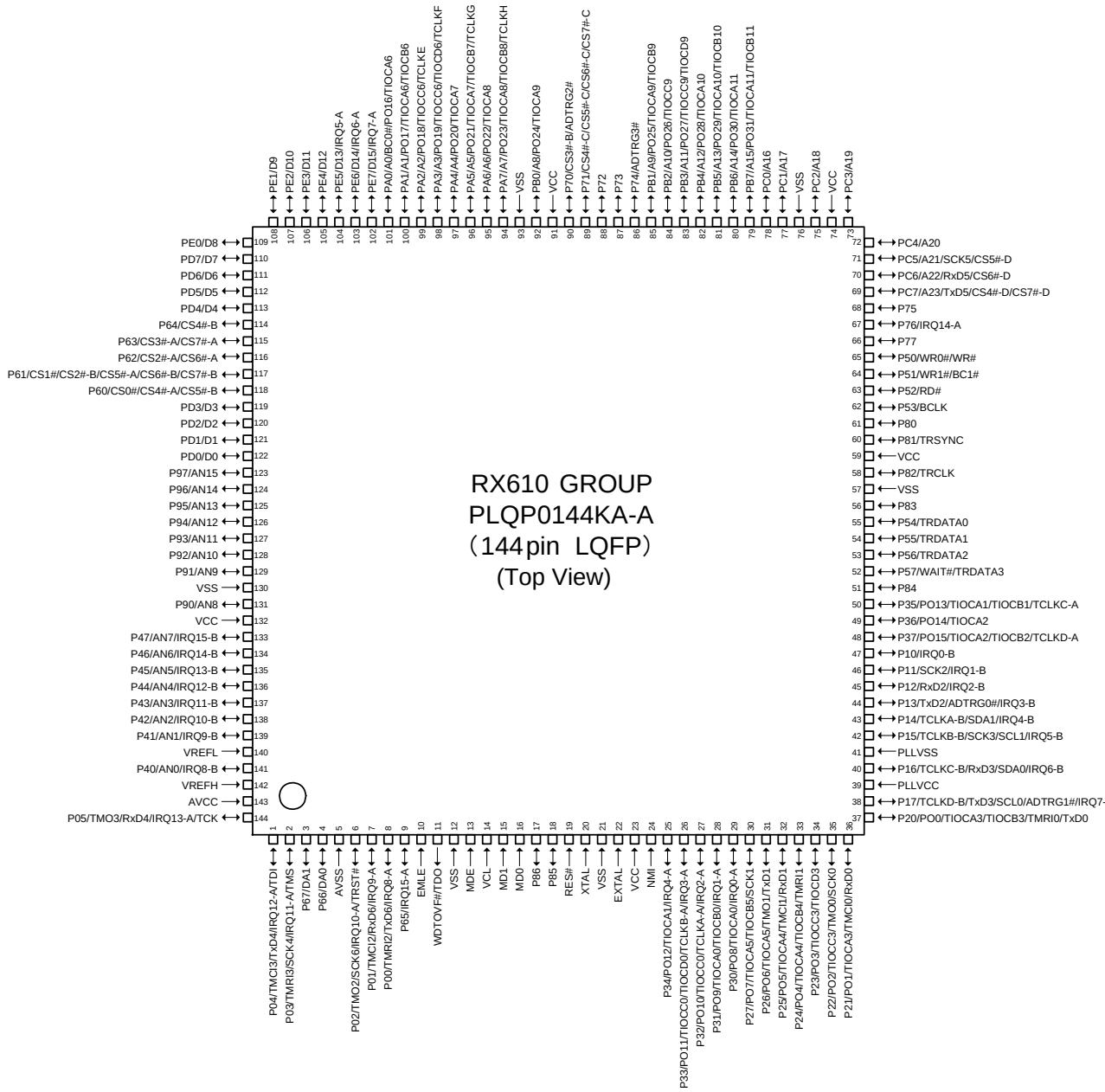
29	DSDL3	I	DAC3 DSD Lch Data Input Pin
30	DSDR3	I	DAC3 DSD Rch Data Input Pin
31	DIF0	I	Audio Data Interface Format 0 Pin
32	ROUT4-	O	DAC4 Rch Negative Analog Output Pin
33	ROUT4+	O	DAC4 Rch Positive Analog Output Pin
34	VREFH	I	Positive Voltage Reference Input Pin
35	AVDD	-	Analog Power Supply Pin, +4.75~+5.25V
36	AVSS	-	Analog Ground Pin
37	LOUT4-	O	DAC4 Lch Negative Analog Output Pin
38	LOUT4+	O	DAC4 Lch Positive Analog Output Pin
39	ROUT3-	O	DAC3 Rch Negative Analog Output Pin
40	ROUT3+	O	DAC3 Rch Positive Analog Output Pin
41	LOUT3-	O	DAC3 Lch Negative Analog Output Pin
42	LOUT3+	O	DAC3 Lch Positive Analog Output Pin
43	ROUT2-	O	DAC2 Rch Negative Analog Output Pin
44	ROUT2+	O	DAC2 Rch Positive Analog Output Pin
45	LOUT2-	O	DAC2 Lch Negative Analog Output Pin
46	LOUT2+	O	DAC2 Lch Positive Analog Output Pin
47	ROUT1-	O	DAC1 Rch Negative Analog Output Pin
48	ROUT1+	O	DAC1 Rch Positive Analog Output Pin

Note: All input pins except pull-down pin should not be left floating.

EPM3032A (DIGITAL : IC783)



R5F56108VNFP (DIGITAL : IC761)



R5F56108VNFP Terminal Functions

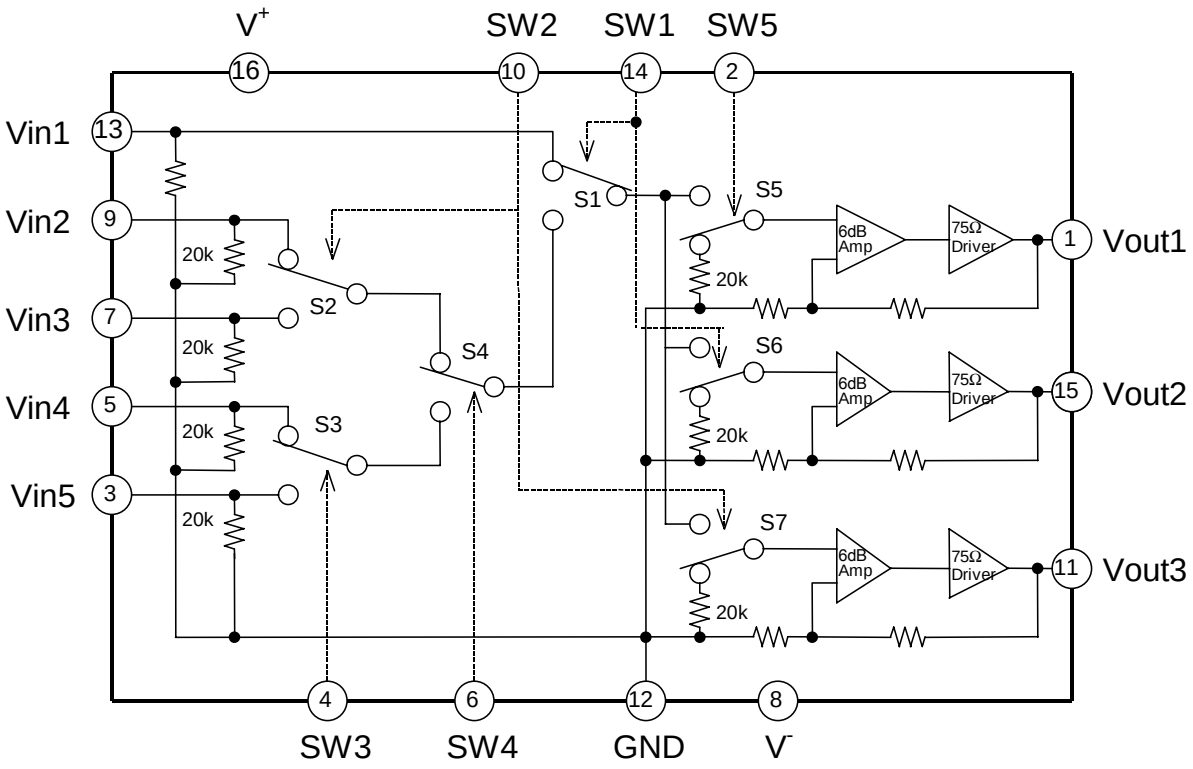
Pin	Pin Name	Symbol	I/O	Pu/Pd	LvCnv	STBY	STOP	CEC STBY	Function
1	P04/IRQ12-A/TMCI3/ TxD4/TDI	NC	I/O/I	M3VPu	-	-/-/I	-/-/I	I	NC
2	P03/IRQ11-A/TMRI3/ SCK4/TMS	NC	I/I	M3VPu	-	-/I	-/I	I	NC
3	P67/DA1	HIN SELA	O	-	-	L	L	L	TC4051 Control(for CEC Standby HDMI detect)
4	P66/DA0	HIN SELB	O	-	-	L	L	L	TC4051 Control(for 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
12	VSS	VSS	I	-	-	-	-	-	GND
13	MDE	MDE	I	Pd	-	-	-	-	NC

Pin	Pin Name	Symbol	I/O	Pu/Pd	LvCnv	STBY	STOP	CEC STBY	Function
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	NC	O	-	-	L	L	L	NC
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 (DM860)
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	-	-	I	I	I	ETHERNET communication control pin (DM860)
37	P20/PO0/TIOCA3/ TIOCB3/TMRI0/TxD0	E_TXDMOEI	O	-	-	L	L	L	ETHERNET communication control pin (DM860)
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
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 (DM860)
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 (DM860)
56	P83	E SPI CLK	O	N3VPu	-	L	L	L	ETHERNET communication control pin (DM860)
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)

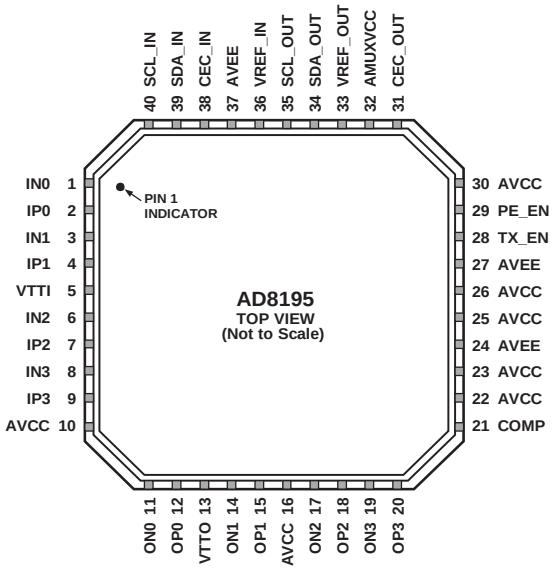
Pin	Pin Name	Symbol	I/O	Pu/Pd	LvCnv	STBY	STOP	CEC STBY	Function
62	BCLK/P53(Input only)	NC	I	-	-	-	-	-	NC
63	P52/RD#	NC	O	-	-	L	L	L	NC
64	P51/WR1#/BC1#	NC	O	-	-	L	L	L	NC
65	P50/WR0#/WR#	NC	O	-	-	L	L	L	NC
66	P77	VIN B	O	-	3->5	L	L	L	CVBS Select(NJM2595)
67	P76/IRQ14-A	TU GPO2_INT	I	-	-	L	L	L	TUNER GPIO2 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 (LC89058W-E)
87	P73	DIR DIN	O	-	-	L	L	L	DIR control pin (LC89058W-E)
88	P72	DIR DOUT	I	DA3VPu	-	I	I	I	DIR control pin (LC89058W-E)
89	P71/CS4#-C/CS5#-C/ CS6#-C/CS7#-C	DIR CLK	O	-	-	L	L	L	DIR control pin (LC89058W-E)
90	P70/CS3#-B/ADTRG2#	DIR RST	O	-	-	L	L	L	DIR control pin (LC89058W-E)
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)
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	DAC(ETHER) MUTE	O	-	-	L	L	L	DAC (ETHER) MUTE control pin (PCM5100)MUTE ON="L"
99	PA2/A2/PO18/TIOCC6/ TCLKE	PRE Z2 MUTE(1713E3)/ NC(Except 1713E3)	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	O	-	-	L	L	L	NC
106	PE3/D11	NC	O	-	-	L	L	L	NC
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	ADC RST	O	-	-	L	L	L	A/D converter control pin(AK5358B)

Pin	Pin Name	Symbol	I/O	Pu/Pd	LvCnv	STBY	STOP	CEC STBY	Function
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(DM860)
117	P61/CS1#/CS2#-B/ CS5#-A/CS6#-B/CS7#-B	DAC MS	O	-	-	L	L	L	D/A converter control pin(AK4358VQ)
118	P60/CS0#/CS4#-A/ CS5#-B	DAC RST	O	-	-	L	L	L	D/A converter control pin(AK4358VQ)
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
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(DM860)
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)



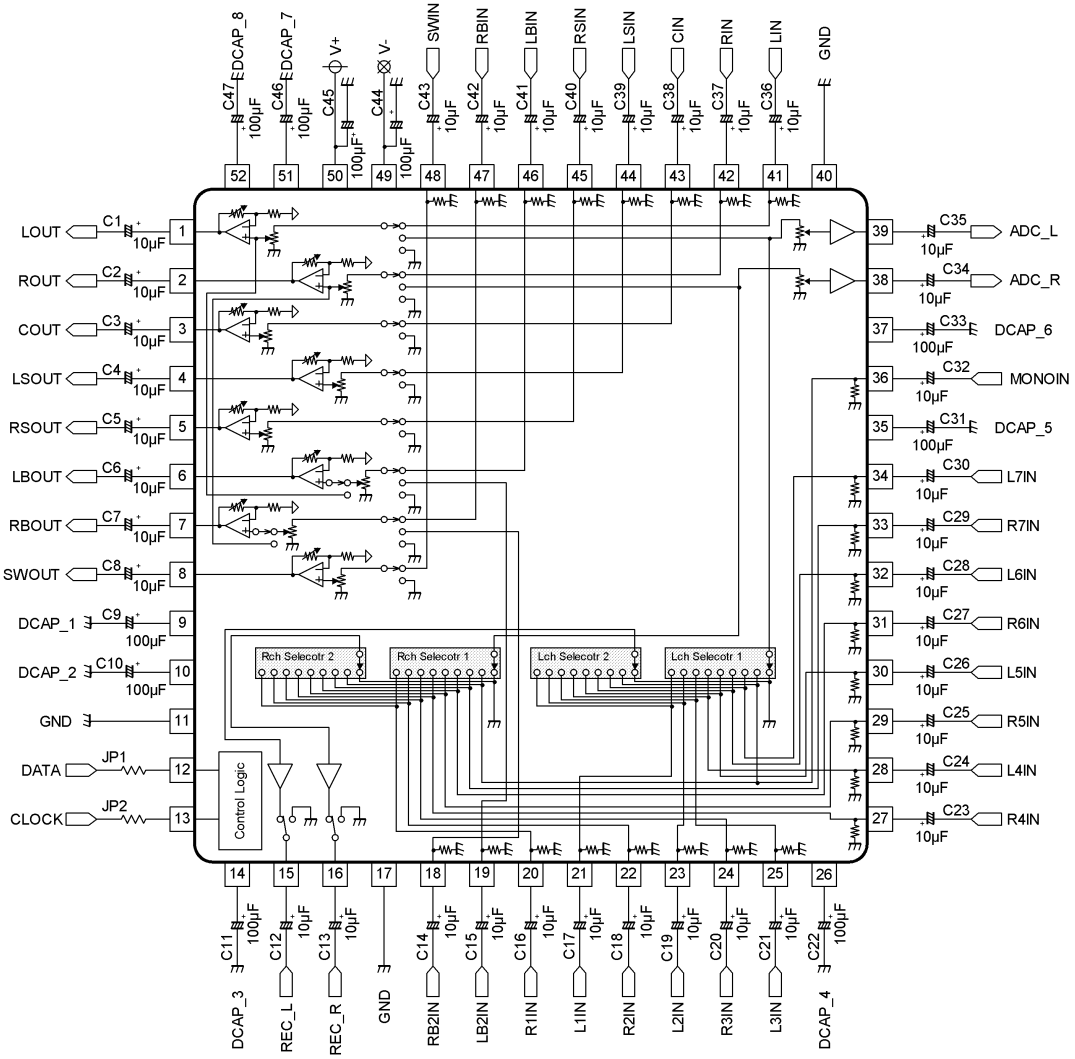
NOTES
1. THE AD8195 LFCSP HAS AN EXPOSED PAD ON THE UNDERSIDE OF THE PACKAGE THAT AIDS IN HEAT DISSIPATION. THE PAD MUST BE ELECTRICALLY CONNECTED TO THE AVEE SUPPLY PLANE IN ORDER TO MEET THERMAL SPECIFICATIONS.

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.

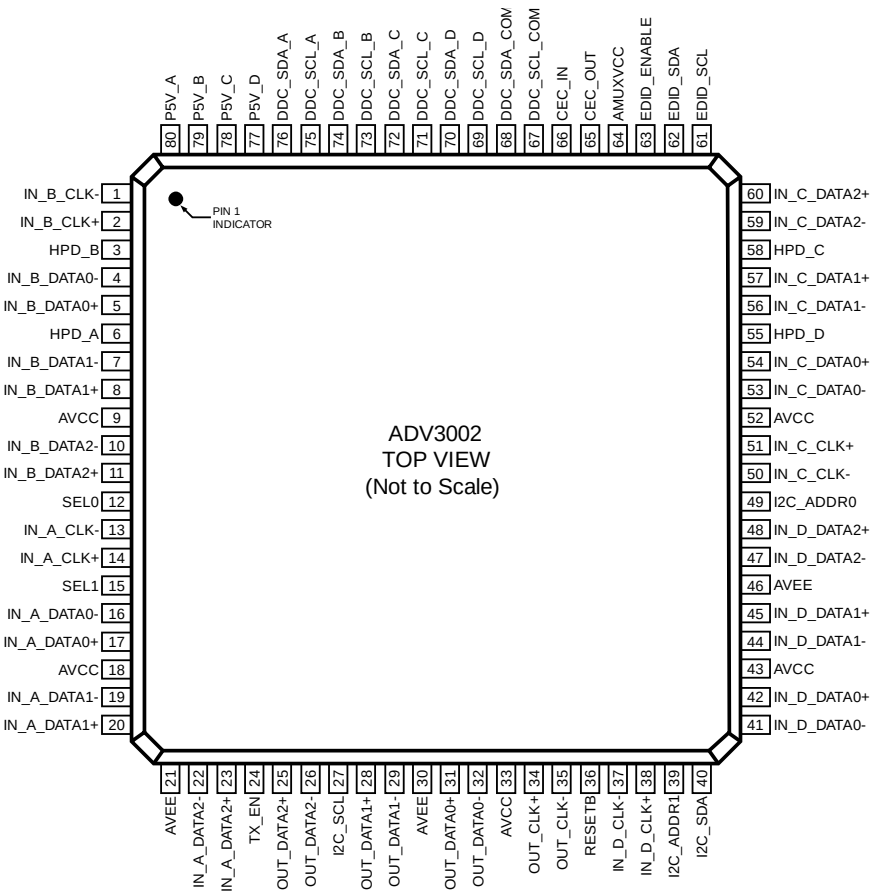
NJU72340A (DIGITAL :IC891)



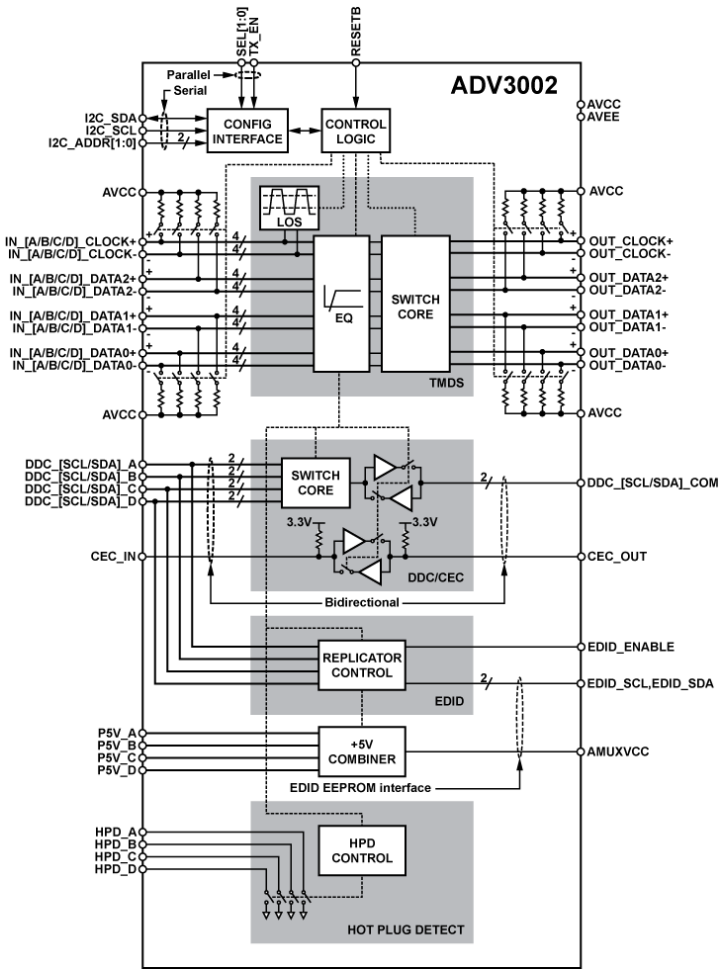
NJU72340A Terminal Functions

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

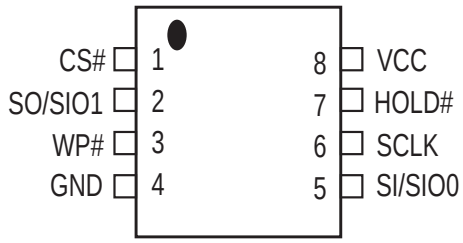
ADV3002BSTZ (DIGITAL : IC711)



ADV3002BSTZ Block diagram



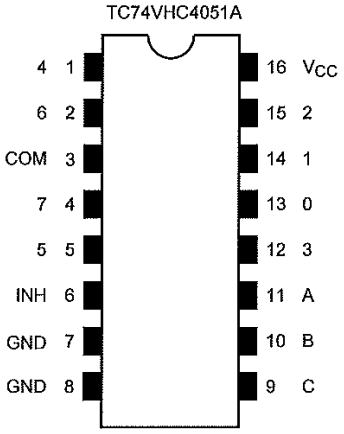
MX25L3206EM2I-12G (DIGITAL : IC722)



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

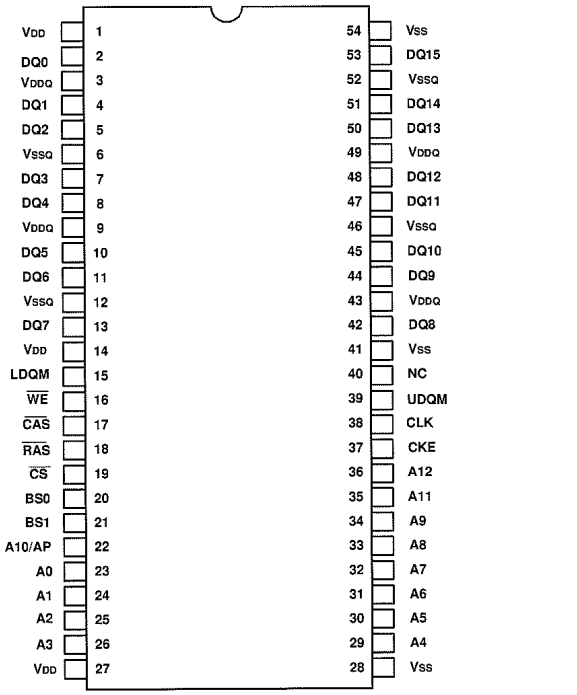
74VHC4051A (DIGITAL : IC724)



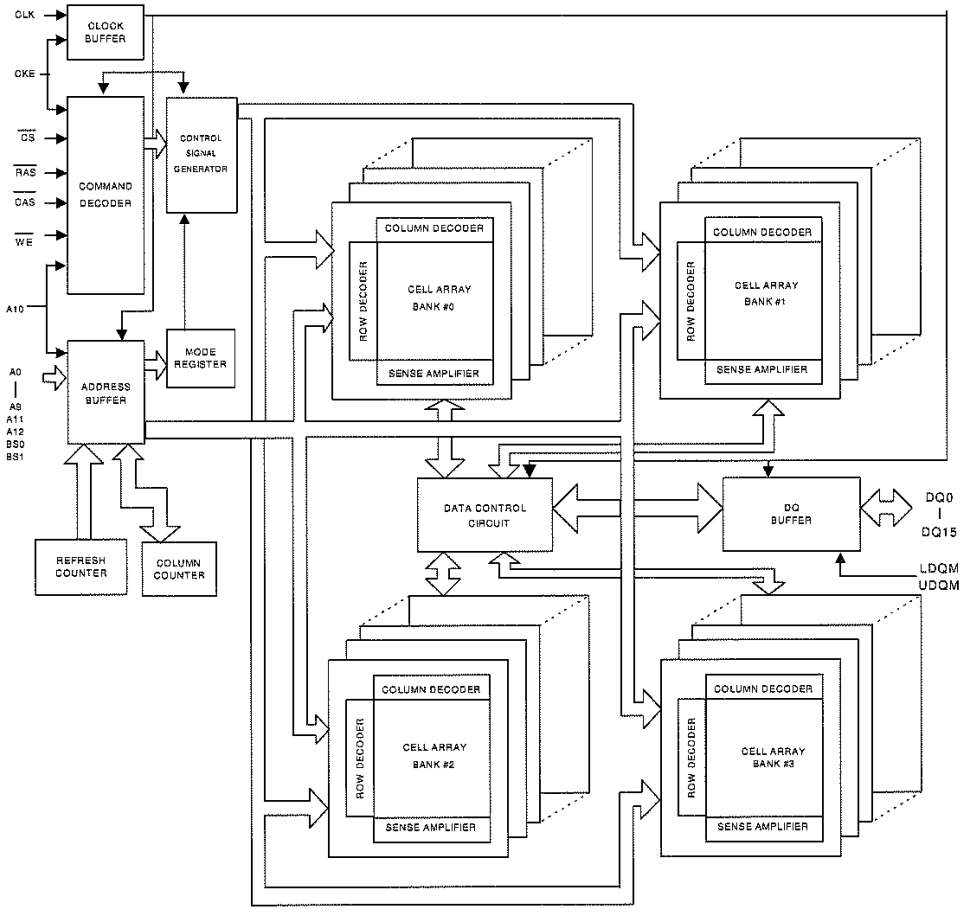
Control Inputs				"ON" Channel
Inhibit	C	B	A	TC74VHC4051A
$\overline{L}$	L	L	L	0
L	L	L	H	1
L	L	H	L	2
L	L	H	H	3
$\overline{L}$	H	L	L	4
L	H	L	H	5
L	H	H	L	6
L	H	H	H	7
H	X	X	X	None

X: Don't care,

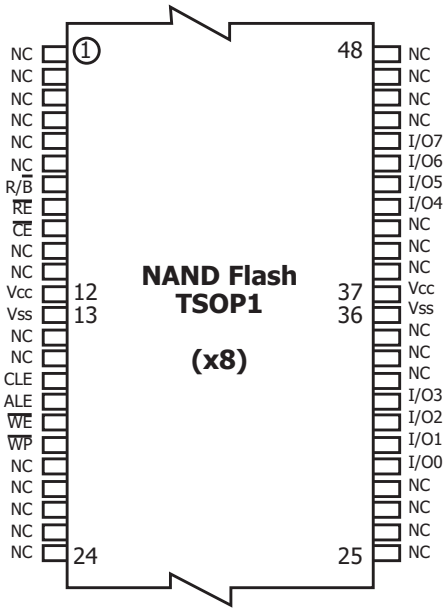
W9825G6JH-6 (DIGITAL : IC833)



W9825G6JH-6 Pin Function



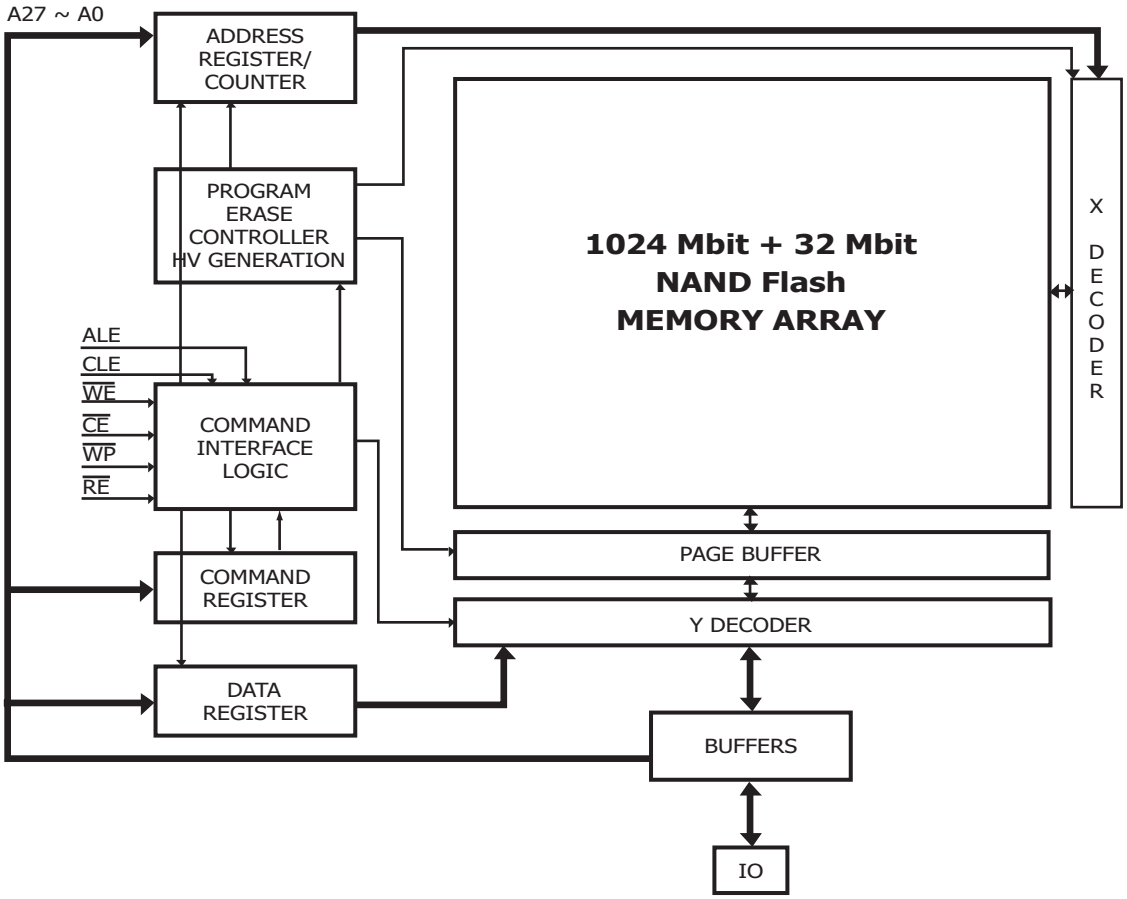
H27U1G8F2BTR-BC (DIGITAL : IC 832)



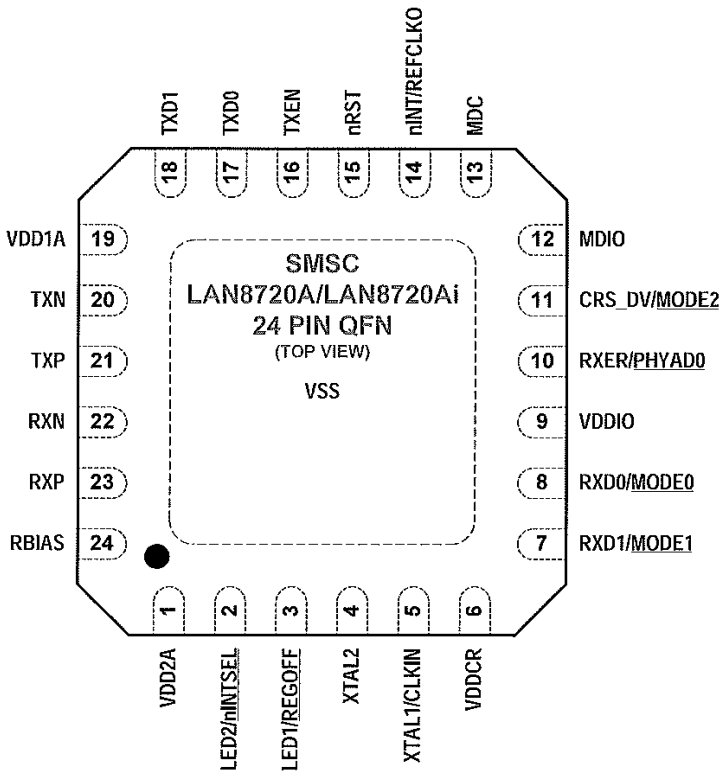
H27U1G8F2BTR-BC Pin Function

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

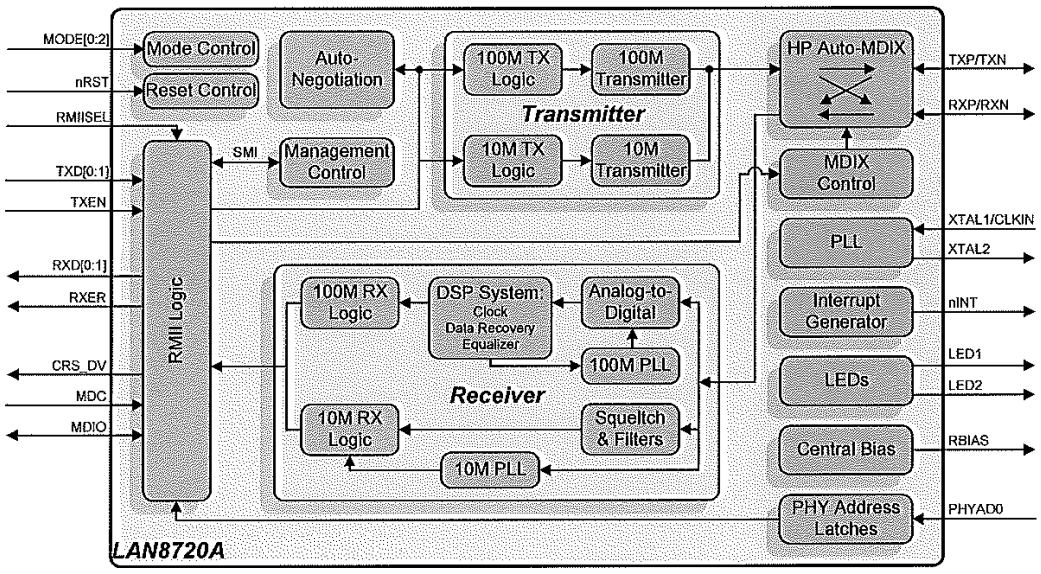


LAN8720A (DIGITAL : IC851)



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-1713E3 only))

PCM510X (top view)

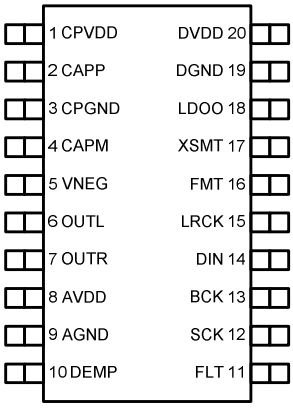
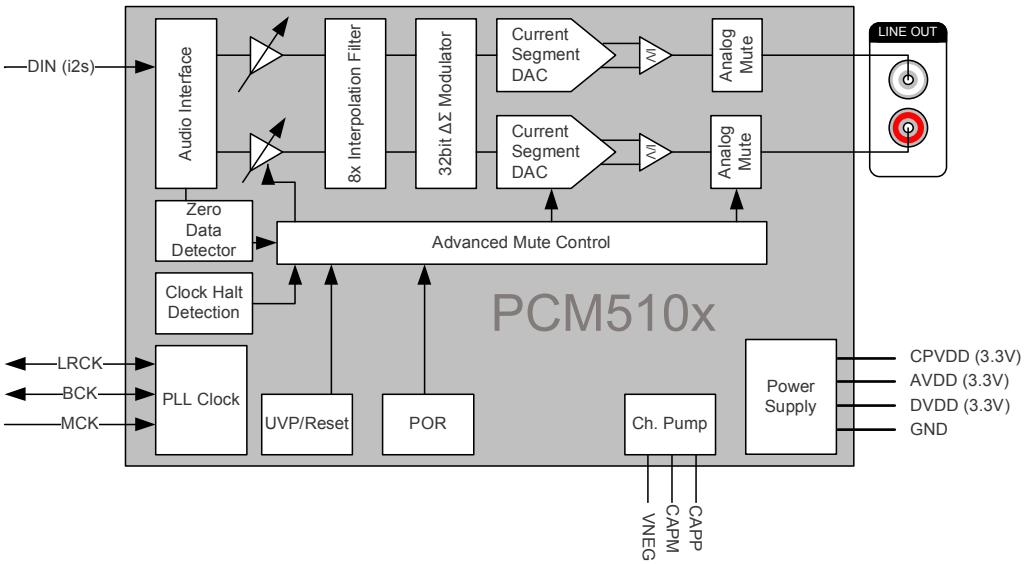


Table 2. TERMINAL FUNCTIONS, PCM510x

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

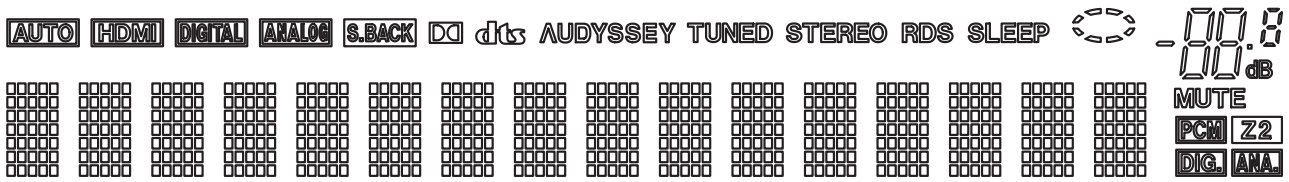
(1) Failsafe LVCMOS Schmitt trigger input

PCM5100 Block diagram



2. FL DISPLAY

FLD (018BT021GINK) (FRONT : FL101)



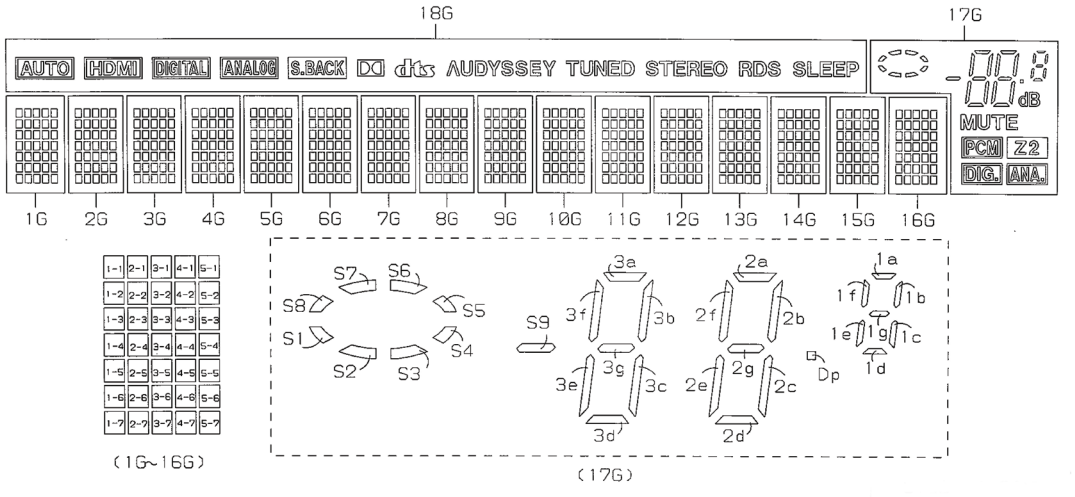
PIN CONNECTION

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	-	CSP	DA	TSA	TSB	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	18G	17G	Q17G	Q18G	NP	NP	NP	NP	F1

NOTE
1) F1,F2 --- Filament
2) NP ------ No pin
3) DL ------ Datum Line
4) NX ------ No extend pin
5) LGND -----Logic GND pin
6) PGND -----Power GND pin
7) VH ------ High Voltage Supply pin
8) VDD ----- Logic Voltage Supply pin
9) CP ------ Shift Register Clock
10) DA ------ Serial Data Input
11) TSA,B --- Test pin
12) $\overline{CS}$ ------ 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.	-

PARTS LIST OF P.C.B. UNIT

∗Parts indicated by "nsp" on this table cannot be supplied.
∗The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.
E3 : U.S.A. & Canada model E2 : Europe modelE1C : China model
E1C : China model

FRONT PCB UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC101	943239005300M	I.C,OPAMP		HVIBA4560RF		
	Q1001	943219006820S	TR KTC1027Y		CVTKTC1027YT		
	Q1002	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q1003	943214500020S	T.R,2SC3052		CVT2SC3052		
	Q1004	943214500020S	T.R,2SC3052		CVT2SC3052		
	Q1005	00MHT600141B1	TR KTA1271Y		HVTKTA1271YT		
	Q1006	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q1007	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C		
	Q1008	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C		
	Q1009	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q1011	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C		
	Q1012	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	D1001	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
	D1002	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
	D1003	90M-HD302360R	DIODE,ZENER,1/2W,6.8V		CVDZJ6.8BT		
	D1004	00D9430087209	DIODE,ZENER,1/2W,24V		CVDZJ24BT		
	D1005	90M-HD302450R	DIODE,ZENER,1/2W,13V		CVDZJ13BT		
	D1008	963209003510S	DIODE,RELIABLEESDPROTECTION		CVDCDS3C05HDMI1		
	D1009	963209003510S	DIODE,RELIABLEESDPROTECTION		CVDCDS3C05HDMI1		
	D1010	963209003510S	DIODE,RELIABLEESDPROTECTION		CVDCDS3C05HDMI1		
	D1011	963209003510S	DIODE,RELIABLEESDPROTECTION		CVDCDS3C05HDMI1		
	D1012	943176010090S	L.E.D,(GREEN/RED5PI)		CVDBLBJEGJ204L		
	D1019	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T		
	D1020	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T		
	D1401	943202010080S	DIODE,ZENER,1/2W,5.1V		CVDZJ5.1BT		
	D1402	943202010080S	DIODE,ZENER,1/2W,5.1V		CVDZJ5.1BT		
	D1403	943202010080S	DIODE,ZENER,1/2W,5.1V		CVDZJ5.1BT		
	D1404	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T		
	D1405	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T		
RESISTORS GROUP							
	R1001	nsp	RES,CARBON(1/5W,1.8ohm,J)		CRD20TJ1R8T		
	R1004	nsp	RES,CARBON(1/5W,1.8ohm,J)		CRD20TJ1R8T		
	R1005	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R1006	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R1007	00MGD05103160	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T		
	R1008	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R1009	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R1010	00MNN05393610	RES,CHIP(1608/5%/39Kohm)		CRJ10DJ393T		
	R1011	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R1012	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R1013	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R1014	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R1015	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R1016	00MNN05104610	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R1017	00MNN05104610	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R1018	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R1019	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R1020	00MNN05332610	RES,CHIP(1608/5%/3.3Kohm)		CRJ10DJ332T		
	R1021	00MNN05102610	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R1022	00MNN05102610	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R1023	00MNN05473610	RES,CHIP(1608/5%/47Kohm)		CRJ10DJ473T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R1025	00MNN05393610	RES,CHIP(1608/5%/39Kohm)		CRJ10DJ393T		
	R1026	00MNN05393610	RES,CHIP(1608/5%/39Kohm)		CRJ10DJ393T		
	R1027	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R1030	00MNN05100610	RES,CHIP(1608/5%/10ohm)		CRJ10DJ100T		
	R1038	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R1039	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R1040	00MNN05222610	RES,CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T		
	R1041	00MNN05122610	RES,CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T		
	R1042	00MNN05122610	RES,CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T		
	R1043	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R1053	00MNN05100610	RES,CHIP(1608/5%/10ohm)		CRJ10DJ100T		
	R1057	00MNN05471610	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R1058	00MNN05102610	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R1059	00MNN05102610	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R1060	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R1061	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R1064	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
⚠	R1066	943124500040S	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT		
	R1067	00MNN05100610	RES,CHIP(1608/5%/10ohm)		CRJ10DJ100T		
	R1071	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R1072	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R1073	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R1074	00MNN05151610	RES,CHIP(1608/5%/150ohm)		CRJ10DJ151T		
	R1075	00MNN05181610	RES,CHIP(1608/5%/180ohm)		CRJ10DJ181T		
	R1076	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R1077	00MNN05151610	RES,CHIP(1608/5%/150ohm)		CRJ10DJ151T		
	R1078	00MNN05151610	RES,CHIP(1608/5%/150ohm)		CRJ10DJ151T		
	R1401	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R1402	00MNN05104610	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R1403	00MNN05104610	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R1404	00MNN05104610	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R1405	00MNN05222610	RES,CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T		
	R1406	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R1407	00MNN05821610	RES,CHIP(1608/5%/820ohm)		CRJ10DJ821T		
	R1408	nsp	RES,CHIP(1608/5%/18Kohm)		CRJ10DJ183T		
	R1409	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R1410	00MNN05473610	RES,CHIP(1608/5%/47Kohm)		CRJ10DJ473T		
	R1411	00MNN05222610	RES,CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T		
CAPACITORS GROUP							
	C1002	nsp	CAP,MYLAR(100V/0.1uF/J)		HCQI1H104JZT		
	C1003	nsp	CAP,ELECT(50V/10uF)-S		CCEA1HKS100T		
	C1004	943134010530S	CAP,ELECT(50V/1uF)		CCEA1HH1R0T		
	C1005	00MOA22706320	CAP,ELECT(63V/220uF)		CCEA1JH221E		
	C1006	943134010530S	CAP,ELECT(50V/1uF)		CCEA1HH1R0T		
	C1007	nsp	CAP,METAL-FILM(100V/0.047uF)		CCME2A473JXT		
	C1009	nsp	CAP,CHIP(2012,50V/0.1uF)		CCUC1H104KC		
	C1010	00D9430175108	CAP,ELECT(50V/10uF)		CCEA1HH100T		
	C1011	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C1013	nsp	CAP,CHIP(1608,50V/100pF)		CCUS1H101JA		
	C1014	nsp	CAP,CHIP(1608,50V/100pF)		CCUS1H101JA		
	C1015	nsp	CAP,CHIP(1608,50V/330pF)		CCUS1H331JA		
	C1016	nsp	CAP,CHIP(1608,50V/1000pF)		CCUS1H102KC		
	C1017	nsp	CAP,METAL-FILM(100V/0.047uF)		CCME2A473JXT		
	C1019	00D9430175108	CAP,ELECT(50V/10uF)		CCEA1HH100T		
	C1020	nsp	CAP,CHIP(1608,50V/0.01uF)		CCUS1H103KC		
	C1038	943134010670S	CAP,ELECT(16V/47uF)-S		CCEA1CKS470T		
	C1039	nsp	CAP,CHIP(1608,50V/100pF)		CCUS1H101JA		
	C1050	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C1052	00D9430173003	CAP,ELECT(10V/220uF)-S		CCEA1AKS221T		
	C1053	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C1054	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C1055	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C1065	943134010530S	CAP,ELECT(50V/1uF)		CCEA1HH1R0T		
	C1066	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C1067	943134010530S	CAP,ELECT(50V/1uF)		CCEA1HH1R0T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C1068	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C1071	nsp	CAP,CHIP(1608,50V/220pF)		CCUS1H221JA		
	C1072	nsp	CAP,CHIP(1608,50V/220pF)		CCUS1H221JA		
	C1073	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C1076	nsp	CAP,CHIP(1608,50V/0.01uF)		CCUS1H103KC		
	C1077	nsp	CAP,CHIP(1608,50V/0.01uF)		CCUS1H103KC		
	C1081	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C1401	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C1402	nsp	CAP,ELECT(50V/1uF)-S		CCEA1HKS1R0T		
	C1403	nsp	CAP,CHIP(1608,50V/100pF)		CCUS1H101JA		
	C1405	nsp	CAP,ELECT(50V/10uF)-S		CCEA1HKS100T		
	C1406	nsp	CAP,CHIP(1608,50V/0.047uF)		CCUS1H473KC		
	C1407	nsp	CAP,ELECT(16V/100uF)-S		CCEA1CKS101T		
	C1408	nsp	CAP,CHIP(1608,50V/82pF)		CCUS1H820JA		
	C1410	943134010530S	CAP,ELECT(50V/1uF)		CCEA1HH1R0T		
	C1411	943134010530S	CAP,ELECT(50V/1uF)		CCEA1HH1R0T		
	C1414	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C1415	nsp	CAP,CHIP(1608,50V/1000pF)		CCUS1H102KC		
	C1417	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C1424	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
OTHERS PARTS GROUP							
	BD141	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	BK101	nsp	BRACKET,FIP		CMD1A572		
	BK102	nsp	BRACKET,FIP		CMD1A572		
	BK103	nsp	BRACKET,PCB		CMD1A629		
	BN103	nsp	WIRE,ASS'Y		CWB1B005050HC		*
	BN104	nsp	WIRE,ASS'Y		CWB1C205350LC001		*
	BN12A	nsp	WIRE,ASS'Y		CWB1B005080CC		*
	BN13A	nsp	WIRE,ASS'Y		CWB1B003080CC		
	CN101	nsp	WAFER,FFC1.25mm,ANGLE		CJP25GB286ZN		*
	CN102	nsp	WAFER/ANGLE/2.5mm/07P		CJP07GB03ZY		
	CN103	nsp	LOCK-WAFER/ANGLE/2MMPITCH/5PIN		CJP05GJ288ZY		
	CN104	nsp	LOCK-WAFER/STRAIGHT/2MMPITCH/3PIN		CJP03GI288ZY		*
⚠	F1001	943652000620S	FUSE(372Series/100mA/TR5)		CBA2D0100A3EYT		
	FL101	943172100150S	V.F.D(FUTABA,18-BT-02GINK)		CFL18BT021GINK		
	JK101	943643101590S	JACK,USBSTRAIGHT(BLACK1.5A)		CJJ9X010Z		*
	JK104	90M-YT004500R	JACK,PHONES(6.35mm,SILVER)		CJJ2E026Z		
	JK603	943643100160S	JACK,MONO,3.5mm		CJJ1D001Z		
	L1001	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L1003	nsp	FERRITE,CHIPBEAD(4516/60R)		CLZ9Z014Z		
	L1004	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L1005	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L6007	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L6008	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	LUG11	nsp	WIRE,ASS'Y		CWE8102100RV		
	LUG13	nsp	WIRE,ASS'Y		CWE8102180RV		
	RC101	943262100140S	SENSOR,REMOCON(37.9KHz)		CRVHM238RT12		
	SW101	90M-SP001400R	SW,TACT		CST1A023ZT		
	SW102	90M-SP001400R	SW,TACT		CST1A023ZT		
	SW103	90M-SP001400R	SW,TACT		CST1A023ZT		
	SW104	90M-SP001400R	SW,TACT		CST1A023ZT		
	SW105	90M-SP001400R	SW,TACT		CST1A023ZT		
	SW106	90M-SP001400R	SW,TACT		CST1A023ZT		
	SW107	90M-SP001400R	SW,TACT		CST1A023ZT		
	SW108	90M-SP001400R	SW,TACT		CST1A023ZT		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	SW109	90M-SP001400R	SW,TACT		CST1A023ZT		
	SW110	90M-SP001400R	SW,TACT		CST1A023ZT		
	SW111	90M-SP001400R	SW,TACT		CST1A023ZT		
	VR101	943671010330S	ENCODER(16MM,24PULSES),W/CLICK		CSR2A055Z		

POWER PCB UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC301	00D2630801004	I.C,REGULATOR		HVINJM7812FA		
	IC302	00D2630641002	I.C,REGULATOR		HVINJM7912FA		
	IC303	943231010390S	I.C,REGULATOR(+5V,T0220IS)		CVIKIA7805BPI		
	IC304	00D2631099006	I.C,REGULATOR(-5V,T0220IS)		CVIKIA7905PI		
	IC305	943231010390S	I.C,REGULATOR(+5V,T0220IS)		CVIKIA7805BPI		
⚠	IC601	231010091708S	I.C,OFF-LINEPOWERSWITCH		CVITOP258MG		
⚠	IC602	963239010480S	I.C,PHOTOCOUPLER		CVIPC123Y22FZ0F		
	IC603	2120500105085	I.C,SHUNTREGULATOR(TO-92)		CVIKIA2431AP		
	Q6002	943229500110S	F.E.T,INK0010AC1 (N-CH,SC-59,MOSFET,ISAHAYA)		CVTINK0010AC1		*
	Q6003	00MHT30001000	T.R		HVTKTC3199YT		
	D3001	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
	D3002	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
	D3003	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
	D3004	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
	D3103	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D3104	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D3106	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D3107	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D6001	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
	D6002	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
	D6003	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
	D6004	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
	D6005	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
	D6006	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
	D6007	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
	D6008	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
	D6009	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D6011	943209500030S	DIODE,LOWFORWARDSCHOTTKYRECTIFIER		CVDSRL3060P		
	D6012	00D9630328409	DIODE,RECTIFIERS		CVD1N4007ST		
RESISTORS GROUP							
	R6004	00MGD05334160	RES,CARBON(1/5W,330Kohm,J)		CRD20TJ334T		
	R6006	00MNN05105610	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R6008	00MGD05225160	RES,CARBON(1/5W,2.2Mohm,J)	1613E3, 1713E3	CRD20TJ225T		
	R6009	00MGD05225160	RES,CARBON(1/5W,2.2Mohm,J)	1613E3, 1713E3	CRD20TJ225T		
	R6010	00MGD05105160	RES,CARBON(1/5W,1Mohm,J)	1613E3, 1713E3	CRD20TJ105T		
	R6011	00MNN05100610	RES,CHIP(1608/5%/10ohm)		CRJ10DJ100T		
	R6012	00MNN05274610	RES,CHIP(1608/5%/270Kohm)	1613E3, 1713E3	CRJ10DJ274T		
	R6012	00MNN05563610	RES,CHIP(1608/5%/56Kohm)	1713E2, 1713E1C, 1723E1C	CRJ10DJ563T		
	R6013	00MNN05153610	RES,CHIP(1608/5%/15Kohm)		CRJ10DJ153T		
	R6014	00MNN05102610	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R6019	nsp	RES,CHIP(1608/1%/22Kohm)		CRJ10DF2202T		
	R6015	nsp	RES,CARBON(1/5W,6.8ohm,J)		CRD20TJ6R8T		
	R6016	00MGD05560160	RES,CARBON(1/5W,56ohm,J)		CRD20TJ560T		
	R6017	00MGD05332160	RES,CARBON(1/5W,3.3Kohm,J)		CRD20TJ332T		
	R6018	00MGD05562160	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T		
	R6022	nsp	RES,CHIP(1608/1%/6.8Kohm)		CRJ10DF6801T		
	R6024	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R6025	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
⚠	R6027	943121500030S	RES,CHIP(2012/5%/2.2Mohm)		CRJ18AJ225T		
⚠	R6028	943121500030S	RES,CHIP(2012/5%/2.2Mohm)		CRJ18AJ225T		
⚠	R6029	943121500030S	RES,CHIP(2012/5%/2.2Mohm)		CRJ18AJ225T		
⚠	R6030	943121500030S	RES,CHIP(2012/5%/2.2Mohm)		CRJ18AJ225T		
	R6031	nsp	RES,CHIP(2012/5%/1Mohm)		CRJ18AJ105T		
	R6032	nsp	RES,CHIP(2012/5%/1Mohm)		CRJ18AJ105T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R6033	nsp	RES,CHIP(2012/5%/1Mohm)		CRJ18AJ105T		
CAPACITORS GROUP							
	C3001	00D9430062101	CAP,ELECT(16V/100uF)		CCEA1CH101T		
	C3005	00MOF15104040	CAP,METAL-FILM(100V/0.1uF)		CCME2A104JXT		
	C3006	943134010620S	CAP,ELECT(25V/4700uF)		CCEA1EH472E		
	C3007	943134001290S	CAP,ELECT(25V/2200uF)		CCEA1EH222E		
	C3008	00D9430062101	CAP,ELECT(16V/100uF)		CCEA1CH101T		
	C3012	00D9430103905	CAP,ELECT(16V/470uF)		CCEA1CH471T		
	C3013	00D9430062101	CAP,ELECT(16V/100uF)		CCEA1CH101T		
	C3020	00D9430062101	CAP,ELECT(16V/100uF)		CCEA1CH101T		
	C3021	00D9430062101	CAP,ELECT(16V/100uF)		CCEA1CH101T		
	C3024	943134010530S	CAP,ELECT(50V/1uF)		CCEA1HH1R0T		
⚠	C6001	963132011940S	CAP,CERAMIC(X1/Y2,0.01uF,AC250V)		CCKDKY103MFM		
⚠	C6002	963132011940S	CAP,CERAMIC(X1/Y2,0.01uF,AC250V)		CCKDKY103MFM		
⚠	C6003	963132011940S	CAP,CERAMIC(X1/Y2,0.01uF,AC250V)		CCKDKY103MFM		
	C6004	943134501590S	CAP,ELECT(200V/100uF),105'C	1613E3, 1713E3	CCET200NHA101ES		
	C6004	963134010200S	CAP,ELECT(400V/100UF,18X40,NHA)	1713E2, 1713E1C, 1723E1C	CCET400NHA101ES		
	C6005	nsp	CAP,CHIP(1608,50V/0.047uF)		CCUS1H473KC		
	C6006	nsp	CAP,CHIP(1608,50V/0.01uF)		CCUS1H103KC		
	C6007	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C6008	00D9430175108	CAP,ELECT(50V/10uF),105'C		CCEA1HNXA100TS		
	C6011	963132010120S	CAP,CERAMIC(DC1KV/1000pF)		CCKDDEH102KCM		
	C6012	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C6013	00MOA47602520	CAP,ELECT(25V/47uF),105'C		CCEA1ENXA470TS		
	C6014	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C6015	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C6016	963134010220S	CAP,ELECT(6.3V/5600uF)		CCEA0JNXA562ES		
	C6017	963134010220S	CAP,ELECT(6.3V/5600uF)		CCEA0JNXA562ES		
	C6018	963134010220S	CAP,ELECT(6.3V/5600uF)		CCEA0JNXA562ES		
	C6020	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C6021	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C6022	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
⚠	C6023	963132011930S	CAP,CERAMIC(X1/Y1,2200P,AC250V)		CCKDKX222MEM		
	C6024	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
OTHERS PARTS GROUP							
	BK301	nsp	BRACKET,PCB		CMD1A569		
	BK302	nsp	BRACKET,PCB		CMD1A569		
	BK601	nsp	BRACKET,PCB(A)		CMD2A188		
	BK602	nsp	BRACKET,PCB(A)		CMD2A188		
	BK603	nsp	BRACKET,PCB		CMD1A629		
	BN301	nsp	WIRE,ASS'Y		CWB1C0091203D		*
	BN601	nsp	WIRE,ASS'Y		CWB1D0051503D		*
	CN302	nsp	WAFER/STRAIGHT/2.5mm/5P		CJP05GA01ZY		
	CN601	nsp	WAFER,2P,3.96mm		CJP02KA060ZY		
	CN602	nsp	WAFER,2P,7.92mm		CJP02GA89ZY		
⚠	CX601	943139500020S	CAP,POLYPROPYLENEFILM		HCQF2E104KZE		
⚠	CY601	963134011730S	CAP,CERAMIC(X1/Y1,470P,AC250V)		CCKDKX471KBM		
⚠	CY602	963134011730S	CAP,CERAMIC(X1/Y1,470P,AC250V)		CCKDKX471KBM		
⚠	F3001	00D2061096006	FUSE(218Series,250V/1.25A)		KBA2C1250TLEY		
⚠	F3002	00D2061096006	FUSE(218Series,250V/1.25A)		KBA2C1250TLEY		
⚠	F6001	963652010510S	FUSE(S506Series,250V,2A)	1613E3, 1713E3	CBA2C2000TLEC		
⚠	F6001	963652010500S	FUSE(S506Series,250V,1.6A)	1713E2, 1713E1C, 1723E1C	CBA2C1600TLEC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
⚠	F6002	90M-FS001430R	FUSE(218Series,250V/6.3A)	1613E3, 1713E3	KBA2C6300TLEY		
⚠	F6002	90M-FS001420R	FUSE(218Series,250V/3.15A)	1713E2, 1713E1C, 1723E1C	KBA2C3150TLEY		
⚠	LF602	963111010230S	LINEFILTER,27uH	1613E3, 1713E3	CLZ9Z126Z		
⚠	LF602	943111100410S	LINEFILTER,50uH	1713E2, 1713E1C, 1723E1C	CLZ9Z133Z		*
⚠	RY601	963682010370S	RELAY,HL31-1AT-5H,DC5V,1C1P		CSL1C006ZE		
⚠	T6001	963102010240S	TRANS,SWITCHING(ST-4430A)		CLT9Z067ZE		
	TW91	nsp	2PWIREASS'Y(100MM)	1713E2	CWZPM5003TW91		
	ZD608	00D2760762958	DIODE,ZENER,1/2W,39V	1613E3, 1713E3	CVDZJ39BT		
	ZD609	00D2760762958	DIODE,ZENER,1/2W,39V	1613E3, 1713E3	CVDZJ39BT		
	ZD610	00D2760762958	DIODE,ZENER,1/2W,39V	1613E3, 1713E3	CVDZJ39BT		
	ZD611	963202010440S	DIODE,ZENER,1/2W,22V		CVDZJ22BT		
	ZD612	963202010440S	DIODE,ZENER,1/2W,22V		CVDZJ22BT		
	ZD613	963202010440S	DIODE,ZENER,1/2W,22V		CVDZJ22BT		
	ZD614	963202010440S	DIODE,ZENER,1/2W,22V		CVDZJ22BT		
	ZD615	963202010440S	DIODE,ZENER,1/2W,22V		CVDZJ22BT		
	ZD616	963202010440S	DIODE,ZENER,1/2W,22V		CVDZJ22BT		
	ZD617	963202010440S	DIODE,ZENER,1/2W,22V		CVDZJ22BT		
	ZD618	963202010440S	DIODE,ZENER,1/2W,22V		CVDZJ22BT		
	ZD619	00D9600095607	DIODE,ZENER,1/2W,5.6V		CVDZJ5.6BT		
	ZD620	00D2760762958	DIODE,ZENER,1/2W,39V		CVDZJ39BT		
	ZD621	00D9430196306	DIODE,ZENER,1/2W,7.5V	1613E3, 1713E3	CVDZJ7.5BT		
	ZD621	943202000940S	DIODE,ZENER,1/2W,16V	1713E2, 1713E1C, 1723E1C	CVDZJ16BT		
		nsp	HOLDER,FUSE	F3001	KJCFC5S		
		nsp	HOLDER,FUSE	F3002	KJCFC5S		
		nsp	HOLDER,FUSE	F6001	KJCFC5S		
		nsp	HOLDER,FUSE	F6002	KJCFC5S		

MAIN PCB UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	Q5101	943211500150S	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA		*
	Q5102	943211500150S	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA		*
	Q5103	943213500150S	NPN,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSC1845FTA		*
	Q5104	90M-HT800120R	T.R,BIAS		HVTKTC3114A		
	Q5105	90M-HT400490R	T.R,POWER		HVT2SD2390		
	Q5106	90M-HT200440R	T.R,POWER		HVT2SB1560		
	Q5107	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401		
	Q5108	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551		
	Q5201	943211500150S	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA		*
	Q5202	943211500150S	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA		*
	Q5203	943213500150S	NPN,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSC1845FTA		*
	Q5204	90M-HT800120R	T.R,BIAS		HVTKTC3114A		
	Q5205	90M-HT400490R	T.R,POWER		HVT2SD2390		
	Q5206	90M-HT200440R	T.R,POWER		HVT2SB1560		
	Q5207	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401		
	Q5208	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551		
	Q5301	943211500150S	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA		*
	Q5302	943211500150S	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA		*
	Q5303	943213500150S	NPN,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSC1845FTA		*
	Q5304	90M-HT800120R	T.R,BIAS		HVTKTC3114A		
	Q5305	90M-HT400490R	T.R,POWER		HVT2SD2390		
	Q5306	90M-HT200440R	T.R,POWER		HVT2SB1560		
	Q5307	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401		
	Q5308	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551		
	Q5401	943211500150S	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA		*
	Q5402	943211500150S	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA		*
	Q5403	943213500150S	NPN,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSC1845FTA		*
	Q5404	90M-HT800120R	T.R,BIAS		HVTKTC3114A		
	Q5405	90M-HT400490R	T.R,POWER		HVT2SD2390		
	Q5406	90M-HT200440R	T.R,POWER		HVT2SB1560		
	Q5407	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401		
	Q5408	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551		
	Q5501	943211500150S	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA		*
	Q5502	943211500150S	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA		*
	Q5503	943213500150S	NPN,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSC1845FTA		*
	Q5504	90M-HT800120R	T.R,BIAS		HVTKTC3114A		
	Q5505	90M-HT400490R	T.R,POWER		HVT2SD2390		
	Q5506	90M-HT200440R	T.R,POWER		HVT2SB1560		
	Q5507	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401		
	Q5508	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551		
	Q5601	943213500160S	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C		*
	Q5602	943213500160S	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C		*
	Q5603	943213500160S	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C		*
	Q5604	943213500160S	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C		*
	Q5701	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401		
	Q5702	943211500150S	PNP,TO-92,LOWNOISE,HFE:300-600,FAILCHILD		CVTKSA992FTA		*
	Q5703	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551		
	Q5704	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401		
	Q5705	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551		
	Q5706	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551		
	Q5707	943212500020S	HighVoltagePNPTransistors(SOT-23)		CVTMMBT5401		
	Q5708	943214500040S	HighVoltageNPNTransistors(SOT-23)		CVTMMBT5551		
	D5102	90M-HD302390R	DIODE,ZENER,1/2W,3.3V		CVDZJ3.3BT		
	D5103	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5104	90M-HD302390R	DIODE,ZENER,1/2W,3.3V		CVDZJ3.3BT		
	D5105	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5106	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5202	90M-HD302390R	DIODE,ZENER,1/2W,3.3V		CVDZJ3.3BT		
	D5203	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5204	90M-HD302390R	DIODE,ZENER,1/2W,3.3V		CVDZJ3.3BT		
	D5205	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5206	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5302	90M-HD302390R	DIODE,ZENER,1/2W,3.3V		CVDZJ3.3BT		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	D5303	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5304	90M-HD302390R	DIODE,ZENER,1/2W,3.3V		CVDZJ3.3BT		
	D5305	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5306	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5402	90M-HD302390R	DIODE,ZENER,1/2W,3.3V		CVDZJ3.3BT		
	D5403	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5404	90M-HD302390R	DIODE,ZENER,1/2W,3.3V		CVDZJ3.3BT		
	D5405	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5406	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5502	90M-HD302390R	DIODE,ZENER,1/2W,3.3V		CVDZJ3.3BT		
	D5503	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5504	90M-HD302390R	DIODE,ZENER,1/2W,3.3V		CVDZJ3.3BT		
	D5505	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5506	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5601	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5602	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5603	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5604	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
	D5701	943203002640S	DIODE,BRIDGE		HVDGBJ806		
	D5703	90M-HD302360R	DIODE,ZENER,1/2W,6.8V		CVDZJ6.8BT		
	D5704	00D9430182609	DIODE,SWITCHING		CVD1SS133MT		
RESISTORS GROUP							
	R5101	00MGD05104160	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T		
	R5102	00MGD05681160	RES,CARBON(1/5W,680ohm,J)		CRD20TJ681T		
	R5103	00MGD05103160	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T		
	R5104	00MGD05183160	RES,CARBON(1/5W,18Kohm,J)		CRD20TJ183T		
	R5105	00MGD05122160	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R5106	nsp	RES,M-OXIDEFILM(1W/1.2Kohm)		CRG1SANJ122RT		
	R5107	00MGD05221160	RES,CARBON(1/5W,220ohm,J)		CRD20TJ221T		
	R5108	00MGD05474160	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T		
	R5109	00MGD05333160	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R5110	nsp	RES,M-OXIDEFILM(1W/47ohm)		CRG1SANJ470RT		
	R5111	00MGD05224160	RES,CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R5112	00MGD05224160	RES,CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R5113	00MGD05272160	RES,CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T		
	R5114	00MGD05561160	RES,CARBON(1/5W,560ohm,J)		CRD20TJ561T		
	R5115	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT		
	R5116	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT		
	R5117	943124500040S	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT		
	R5118	943124500040S	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT		
	R5119	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5120	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5121	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5122	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5123		RES,CARBON(1/5W,820Kohm,J)		CRD20TJ824T		
	R5124	00MGD05274160	RES,CARBON(1/5W,270Kohm,J)		CRD20TJ274T		
	R5125	00MGD05103160	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T		
⚠	R5126	943252100130S	PTCTHEMISTORS,CHIP(95C)		CRTB59641A0095		*
	R5127	00MGD05562160	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T		
	R5129	00MGD05153160	RES,CARBON(1/5W,15Kohm,J)		CRD20TJ153T		
	R5130	00MGD05223160	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R5131	00MGD05223160	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R5132	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT		
	R5201	00MGD05104160	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T		
	R5202	00MGD05681160	RES,CARBON(1/5W,680ohm,J)		CRD20TJ681T		
	R5203	00MGD05103160	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T		
	R5204	00MGD05183160	RES,CARBON(1/5W,18Kohm,J)		CRD20TJ183T		
	R5205	00MGD05122160	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R5206	nsp	RES,M-OXIDEFILM(1W/1.2Kohm)		CRG1SANJ122RT		
	R5207	00MGD05221160	RES,CARBON(1/5W,220ohm,J)		CRD20TJ221T		
	R5208	00MGD05474160	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T		
	R5209	00MGD05333160	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R5210	nsp	RES,M-OXIDEFILM(1W/47ohm)		CRG1SANJ470RT		
	R5211	00MGD05224160	RES,CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R5212	00MGD05224160	RES,CARBON(1/5W,220Kohm,J)		CRD20TJ224T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R5213	00MGD05272160	RES,CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T		
	R5214	00MGD05561160	RES,CARBON(1/5W,560ohm,J)		CRD20TJ561T		
	R5215	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT		
	R5216	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT		
	R5217	943124500040S	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT		
	R5218	943124500040S	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT		
	R5219	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5220	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5221	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5222	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5223		RES,CARBON(1/5W,820Kohm,J)		CRD20TJ824T		
	R5224	00MGD05274160	RES,CARBON(1/5W,270Kohm,J)		CRD20TJ274T		
	R5225	00MGD05103160	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T		
⚠	R5226	943252100130S	PTCTHEMISTORS,CHIP(95C)		CRTB59641A0095		*
	R5227	00MGD05562160	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T		
	R5229	00MGD05153160	RES,CARBON(1/5W,15Kohm,J)		CRD20TJ153T		
	R5230	00MGD05223160	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R5231	00MGD05223160	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R5232	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT		
	R5301	00MGD05104160	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T		
	R5302	00MGD05681160	RES,CARBON(1/5W,680ohm,J)		CRD20TJ681T		
	R5303	00MGD05103160	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T		
	R5304	00MGD05183160	RES,CARBON(1/5W,18Kohm,J)		CRD20TJ183T		
	R5305	00MGD05122160	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R5306	nsp	RES,M-OXIDEFILM(1W/1.2Kohm)		CRG1SANJ122RT		
	R5307	00MGD05221160	RES,CARBON(1/5W,220ohm,J)		CRD20TJ221T		
	R5308	00MGD05474160	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T		
	R5309	00MGD05333160	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R5310	nsp	RES,M-OXIDEFILM(1W/47ohm)		CRG1SANJ470RT		
	R5311	00MGD05224160	RES,CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R5312	00MGD05224160	RES,CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R5313	00MGD05272160	RES,CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T		
	R5314	00MGD05561160	RES,CARBON(1/5W,560ohm,J)		CRD20TJ561T		
	R5315	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT		
	R5316	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT		
	R5317	943124500040S	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT		
	R5318	943124500040S	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT		
	R5319	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5320	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5321	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5322	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5323		RES,CARBON(1/5W,820Kohm,J)		CRD20TJ824T		
	R5324	00MGD05274160	RES,CARBON(1/5W,270Kohm,J)		CRD20TJ274T		
	R5325	00MGD05103160	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T		
⚠	R5326	943252100130S	PTCTHEMISTORS,CHIP(95C)		CRTB59641A0095		*
	R5327	00MGD05562160	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T		
	R5329	00MGD05153160	RES,CARBON(1/5W,15Kohm,J)		CRD20TJ153T		
	R5330	00MGD05223160	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R5331	00MGD05223160	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R5332	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT		
	R5401	00MGD05104160	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T		
	R5402	00MGD05681160	RES,CARBON(1/5W,680ohm,J)		CRD20TJ681T		
	R5403	00MGD05103160	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T		
	R5404	00MGD05183160	RES,CARBON(1/5W,18Kohm,J)		CRD20TJ183T		
	R5405	00MGD05122160	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R5406	nsp	RES,M-OXIDEFILM(1W/1.2Kohm)		CRG1SANJ122RT		
	R5407	00MGD05221160	RES,CARBON(1/5W,220ohm,J)		CRD20TJ221T		
	R5408	00MGD05474160	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T		
	R5409	00MGD05333160	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R5410	nsp	RES,M-OXIDEFILM(1W/47ohm)		CRG1SANJ470RT		
	R5411	00MGD05224160	RES,CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R5412	00MGD05224160	RES,CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R5413	00MGD05272160	RES,CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T		
	R5414	00MGD05561160	RES,CARBON(1/5W,560ohm,J)		CRD20TJ561T		
	R5415	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT		
	R5416	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT		
	R5417	943124500040S	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R5418	943124500040S	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT		
	R5419	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5420	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5421	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5422	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5423		RES,CARBON(1/5W,820Kohm,J)		CRD20TJ824T		
	R5424	00MGD05274160	RES,CARBON(1/5W,270Kohm,J)		CRD20TJ274T		
	R5425	00MGD05103160	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T		
⚠	R5426	943252100130S	PTCTHEMISTORS,CHIP(95C)		CRTB59641A0095		*
	R5427	00MGD05562160	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T		
	R5429	00MGD05153160	RES,CARBON(1/5W,15Kohm,J)		CRD20TJ153T		
	R5430	00MGD05223160	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R5431	00MGD05223160	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R5432	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT		
	R5501	00MGD05104160	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T		
	R5502	00MGD05681160	RES,CARBON(1/5W,680ohm,J)		CRD20TJ681T		
	R5503	00MGD05103160	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T		
	R5504	00MGD05183160	RES,CARBON(1/5W,18Kohm,J)		CRD20TJ183T		
	R5505	00MGD05122160	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R5506	nsp	RES,M-OXIDEFILM(1W/1.2Kohm)		CRG1SANJ122RT		
	R5507	00MGD05221160	RES,CARBON(1/5W,220ohm,J)		CRD20TJ221T		
	R5508	00MGD05474160	RES,CARBON(1/5W,470Kohm,J)		CRD20TJ474T		
	R5509	00MGD05333160	RES,CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R5510	nsp	RES,M-OXIDEFILM(1W/47ohm)		CRG1SANJ470RT		
	R5511	00MGD05224160	RES,CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R5512	00MGD05224160	RES,CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R5513	00MGD05272160	RES,CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T		
	R5514	00MGD05561160	RES,CARBON(1/5W,560ohm,J)		CRD20TJ561T		
	R5515	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT		
	R5516	nsp	RES,M-OXIDEFILM(1W/5.6Kohm)		CRG1SANJ562RT		
	R5517	943124500040S	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT		
	R5518	943124500040S	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT		
	R5519	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5520	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5521	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5522	943124500050S	RES,M-OXIDEFILM(2W/0.47ohm)		CRG2SANJR47RT		
	R5523		RES,CARBON(1/5W,820Kohm,J)		CRD20TJ824T		
	R5524	00MGD05274160	RES,CARBON(1/5W,270Kohm,J)		CRD20TJ274T		
	R5525	00MGD05103160	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T		
⚠	R5526	943252100130S	PTCTHEMISTORS,CHIP(95C)		CRTB59641A0095		*
	R5527	00MGD05562160	RES,CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T		
	R5529	00MGD05153160	RES,CARBON(1/5W,15Kohm,J)		CRD20TJ153T		
	R5530	00MGD05223160	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R5531	00MGD05223160	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R5532	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT		
	R5701	00MGD05103160	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T		
	R5702	00MGD05223160	RES,CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R5703	943124500040S	RES,M-OXIDEFILM(1W/4.7ohm)		CRG1SANJ4R7RT		
	R5704	nsp	RES,M-OXIDEFILM(1W/100ohm)		CRG1SANJ101RT		
	R5705	00MGD05104160	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T		
	R5706	00MGD05103160	RES,CARBON(1/5W,10Kohm,J)		CRD20TJ103T		
	R5707	00MGD05104160	RES,CARBON(1/5W,100Kohm,J)		CRD20TJ104T		
	R5708	00MGD05153160	RES,CARBON(1/5W,15Kohm,J)		CRD20TJ153T		
	R5711	00MGD05122160	RES,CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R5712	00MGD05222160	RES,CARBON(1/5W,2.2Kohm,J)		CRD20TJ222T		
	R5713	00MGD05222160	RES,CARBON(1/5W,2.2Kohm,J)		CRD20TJ222T		
	R5715	nsp	RES,M-OXIDEFILM(1W/2.2Kohm)		CRG1SANJ222RT		
	R5716	nsp	RES,M-OXIDEFILM(1W/2.2Kohm)		CRG1SANJ222RT		
	R5717	nsp	RES,M-OXIDEFILM(1W/2.2Kohm)		CRG1SANJ222RT		
	R5721	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT		
	R5722	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT		
	R5723	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT		
	R5724	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT		
	R5725	nsp	RES,M-OXIDEFILM(1W/10ohm)		CRG1SANJ100RT		
	R5726	nsp	RES,M-OXIDEFILM(2W/470ohm)		CRG2SANJ471RT		
	R5727	nsp	RES,M-OXIDEFILM(2W/470ohm)		CRG2SANJ471RT		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	VR510	963161012400S	RES,SEMIFIXED(1K,BCURVE)		CVN1RA102B03T		
	VR520	963161012400S	RES,SEMIFIXED(1K,BCURVE)		CVN1RA102B03T		
	VR530	963161012400S	RES,SEMIFIXED(1K,BCURVE)		CVN1RA102B03T		
	VR540	963161012400S	RES,SEMIFIXED(1K,BCURVE)		CVN1RA102B03T		
	VR550	963161012400S	RES,SEMIFIXED(1K,BCURVE)		CVN1RA102B03T		
CAPACITORS GROUP							
	C5101	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C5102	nsp	CAP,CERAMIC(50V/470pF/K)		CCKT1H471KB		
	C5103	nsp	CAP,CERAMIC(50V/82pF/J)		CCCT1H820JC		
	C5104	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT		
	C5105	943134501770S	CAP,ELECT(50V/220uF)		CCEA1HH221T		
	C5106	nsp	CAP,CERAMIC(50V/33pF/J)		CCCT1H330JC		
	C5107	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C5108	943134501780S	CAP,ELECT(KR1,47uF/63V,8X11.5)		CCEA1JKR1470T		
	C5109	nsp	CAP,SEMICONDUCTOR		CCFT1H104ZF		
	C5201	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C5202	nsp	CAP,CERAMIC(50V/470pF/K)		CCKT1H471KB		
	C5203	nsp	CAP,CERAMIC(50V/82pF/J)		CCCT1H820JC		
	C5204	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT		
	C5205	943134501770S	CAP,ELECT(50V/220uF)		CCEA1HH221T		
	C5206	nsp	CAP,CERAMIC(50V/33pF/J)		CCCT1H330JC		
	C5207	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C5208	943134501780S	CAP,ELECT(KR1,47uF/63V,8X11.5)		CCEA1JKR1470T		
	C5209	nsp	CAP,SEMICONDUCTOR		CCFT1H104ZF		
	C5301	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C5302	nsp	CAP,CERAMIC(50V/470pF/K)		CCKT1H471KB		
	C5303	nsp	CAP,CERAMIC(50V/82pF/J)		CCCT1H820JC		
	C5304	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT		
	C5305	943134501770S	CAP,ELECT(50V/220uF)		CCEA1HH221T		
	C5306	nsp	CAP,CERAMIC(50V/33pF/J)		CCCT1H330JC		
	C5307	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C5308	943134501780S	CAP,ELECT(KR1,47uF/63V,8X11.5)		CCEA1JKR1470T		
	C5309	nsp	CAP,SEMICONDUCTOR		CCFT1H104ZF		
	C5401	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C5402	nsp	CAP,CERAMIC(50V/470pF/K)		CCKT1H471KB		
	C5403	nsp	CAP,CERAMIC(50V/82pF/J)		CCCT1H820JC		
	C5404	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT		
	C5405	943134501770S	CAP,ELECT(50V/220uF)		CCEA1HH221T		
	C5406	nsp	CAP,CERAMIC(50V/33pF/J)		CCCT1H330JC		
	C5407	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C5408	943134501780S	CAP,ELECT(KR1,47uF/63V,8X11.5)		CCEA1JKR1470T		
	C5409	nsp	CAP,SEMICONDUCTOR		CCFT1H104ZF		
	C5501	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C5502	nsp	CAP,CERAMIC(50V/470pF/K)		CCKT1H471KB		
	C5503	nsp	CAP,CERAMIC(50V/82pF/J)		CCCT1H820JC		
	C5504	nsp	CAP,MYLAR(50V/2200pF/J)		HCQI1H222JZT		
	C5505	943134501770S	CAP,ELECT(50V/220uF)		CCEA1HH221T		
	C5506	nsp	CAP,CERAMIC(50V/33pF/J)		CCCT1H330JC		
	C5507	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C5508	943134501780S	CAP,ELECT(KR1,47uF/63V,8X11.5)		CCEA1JKR1470T		
	C5509	nsp	CAP,SEMICONDUCTOR		CCFT1H104ZF		
	C5605	nsp	CAP,MYLAR(50V/0.018pF/J)		HCQI1H183JZT		
	C5606	nsp	CAP,MYLAR(50V/0.018pF/J)		HCQI1H183JZT		
	C5607	nsp	CAP,MYLAR(50V/1500pF/J)		HCQI1H152JZT		
	C5608	nsp	CAP,MYLAR(50V/1500pF/J)		HCQI1H152JZT		
	C5609	nsp	CAP,MYLAR(50V/0.018pF/J)		HCQI1H183JZT		
	C5610	nsp	CAP,MYLAR(50V/0.018pF/J)		HCQI1H183JZT		
	C5611	nsp	CAP,MYLAR(50V/0.018pF/J)		HCQI1H183JZT		
	C5612	nsp	CAP,MYLAR(50V/1500pF/J)		HCQI1H152JZT		
	C5613	nsp	CAP,MYLAR(50V/1500pF/J)		HCQI1H152JZT		
	C5614	nsp	CAP,MYLAR(50V/1500pF/J)		HCQI1H152JZT		
	C5701	nsp	CAP,CERAMIC		CCFT1H103ZF		
	C5702	nsp	CAP,METALPEFILM(250V/0.1uF)		KCME2E104JP04T		
	C5703	nsp	CAP,METALPEFILM(250V/0.1uF)		KCME2E104JP04T		
	C5704	943134010460S	CAP,ELECT(30X35)WITHOUTPLATEONTHETOP		CCET63VKL5682NKZ		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C5706	943134010460S	CAP,ELECT(30X35)WITHOUTPLATEONTHETOP		CCET63VKL5682NKZ		
	C5707	943134010470S	CAP,ELECT(50V/0.1uF)		CCEA1HH0R1T		
	C5708	943134010480S	CAP,ELECT(100V/100uF)		CCEA2AH101E		
	C5710	nsp	CAP,SEMICONDUCTOR		CCFT1H104ZF		
	C5711	943134010660S	CAP,ELECT(6.3V/470uF)		CCEA0JH471T		
	C5712	nsp	CAP,SEMICONDUCTOR		CCFT1H104ZF		
	C5713	943134010660S	CAP,ELECT(6.3V/470uF)		CCEA0JH471T		
	C5716	963134010980S	CAP,ELECT(16V/47uF)		CCEA1CH470T		
	C5717	00D9430175108	CAP,ELECT(50V/10uF)		CCEA1HH100T		
	C5718	nsp	CAP,MYLAR(50V/0.047uF/J)		HCQI1H473JZT		
	C5719	nsp	CAP,MYLAR(50V/0.047uF/J)		HCQI1H473JZT		
	C5720	nsp	CAP,MYLAR(50V/0.047uF/J)		HCQI1H473JZT		
	C5721	nsp	CAP,MYLAR(50V/0.047uF/J)		HCQI1H473JZT		
	C5722	nsp	CAP,MYLAR(50V/0.047uF/J)		HCQI1H473JZT		
	C5723	00D9430175108	CAP,ELECT(50V/10uF)		CCEA1HH100T		
OTHERS PARTS GROUP							
	BK501	nsp	BRACKET,PCB		CMD1A569		
	BN501	nsp	WIRE ASS'Y		CWB1B013150HC		*
	BN502	nsp	WIRE ASS'Y		CWB1B007150HC		*
	BN505	nsp	WIRE ASS'Y		CWB4B003250HC		*
	BN508	nsp	PINHEADER(11P,1.25mm,STRAIGHT,B-TO-B)		CJP11GI281Z		
	CN503	nsp	WAFER(3.96MM)		CJP03GA148ZW		
	CN510	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY		
	CN520	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY		
	CN530	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY		
	CN540	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY		
	CN550	nsp	WAFER/STRAIGHT/2.5mm/2P		CJP02GA01ZY		
	ET501	nsp	PALTE,EARTH		HJT1A025		
	JK501	943646010250S	JACK,SPK(4PRR/BB,SCREW)		CJJ5P011U		
	JK502	943646010240S	JACK,SPK(6PRRR/BBB,SCREW		CJJ5R008U		
	L5101	943115100310S	COIL,SPEAKER(0.5UH)		CLEY0R5KAD		*
	L5201	943115100310S	COIL,SPEAKER(0.5UH)		CLEY0R5KAD		*
	L5301	943115100310S	COIL,SPEAKER(0.5UH)		CLEY0R5KAD		*
	L5401	943115100310S	COIL,SPEAKER(0.5UH)		CLEY0R5KAD		*
	L5501	943115100310S	COIL,SPEAKER(0.5UH)		CLEY0R5KAD		*
	RY560	943682000810S	RELAY,BC3-12H,DC12V,2C2P		CSL4A016ZU		
	RY562	943682100270S	RELAY,981-2A-12DS,DC12V,2C1P		CSL3A022ZU		*
	RY563	943682100270S	RELAY,981-2A-12DS,DC12V,2C1P		CSL3A022ZU		*
	RY564	943682100270S	RELAY,981-2A-12DS,DC12V,2C1P		CSL3A022ZU		*
	TU500	943183100200S	TUNER,FM(SCREW:FTYPE),SI4704-B20	1713E3	CNVMW004FV1-S63SV		*
	TU500	943183100210S	TUNER,RDS,FM(PALTYPE),SI4705-B20	1713E2	CNVMW104FV1-S63V		*
	TU500	943183100220S	TUNER,NORDS,FM(PALTYPE),SI4704-B20	171KE1C, 1723E1C	CNVMW004FV1-S63		*

DIGITAL PCB UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC711	236810057606S	I.C,HDMIMUX		CVIADV3002BSTZ		
	IC721	943236012460S	I.C,HDMITransceiver(LQFP-144P)		CVIADV7623BSTZ		
	IC722	943248101050S	I.C , OSD Serial Flash (AVR1613E3)	1613 E3	CVIANAM1674AV		*
	IC722	943248101060S	I.C , OSD Serial Flash (AVR1713E3)	1713 E3	CVIANAM1675AV		*
	IC722	943248101070S	I.C , OSD Serial Flash (AVR1713E2)	1713 E2	CVIANAM1676AV		*
	IC722	943248101090S	I.C , OSD Serial Flash (AVR1713E1C)	1713 E1C	CVIANAM1677AV		*
	IC722	943248101100S	I.C , OSD Serial Flash (AVR1723E1C)	1723 E1C	CVIANAM1678AV		*
	IC724	943239100760S	I.C,DE/MUX(8CHANALOG,TSSOP-16P)		CVITC74VHC4051AFT		*
	IC751	nsp	I.C,DC-DCCONVERTER(3A,QFNT&R-38P)		CVIEX3AV		
	IC752	nsp	I.C,DC-DCCONVERTER(3A,QFNT&R-38P)		CVIEX3AV		
	IC753	nsp	I.C,DC-DCCONVERTER(3A,QFNT&R-38P)		CVIEX3AV		
	IC754	nsp	I.C,DC-DCCONVERTER(3A,QFNT&R-38P)		CVIEX3AV		
	IC755	943239100730S	I.C,SYSTEMRESET(4.8V,SOT-25A)		CVIPST8448NR		*
	IC756	943239010400S	I.C,REGULATOR(3.3V/TO-252)		CVINJM2845DL133		
	IC761	943243100860S	I.C , MAIN MCU(AVR1613E3)	1613 E3	CVIANAM1662AV		*
	IC761	943243100870S	I.C , MAIN MCU(AVR1713E3)	1713 E3	CVIANAM1663AV		*
	IC761	943243100880S	I.C , MAIN MCU(AVR1713E2)	1713 E2	CVIANAM1664AV		*
	IC761	943243100900S	I.C , MAIN MCU(AVR1713E1C)	1713 E1C	CVIANAM1665AV		*
	IC761	943243100910S	I.C , MAIN MCU(AVR1723E1C)	1723 E1C	CVIANAM1666AV		*
	IC762	943239100720S	I.C,EEPROM(256KBIT,SOP-8P)		CVIR1EX24256BSAS0A		*
	IC771	963239002150S	I.C,OCTALBUFFER/DRIVER		CVISN74LVC244APWR		
	IC772	00D2623444902	I.C,QUAD2-INPUTANDGATE		CVITC74VHC08FT		
	IC781	00D2623077900	IC,HEXINVERTER		HVITC74VHCU04FT		
	IC782	236810062608S	I.C,DIR		CVILC89058W-E		
	IC783	943243100920S	I.C , PLD(AVR1613/1713)		CVIANAM1680AV		*
	IC791	943245100310S	I.C,DSPSHARC(LQFP-176P)		CVIADSP21487KSWZ-2B		*
	IC792	943246012690S	I.C,64MSDRAM		CVIW9864G6JH-6		
	IC793	943248101110S	I.C , DSP(AVR1613/1713)		CVIANAM1681AV		*
	IC811	236810086505S	I.C,ADC(96kHz24-Bit)		CVIAK5358BET		
	IC812	236810073509S	I.C,DAC(8CH192kHz24-Bit)		CVIAK4358VQ		
	IC813	00D2631289900	EOLitemI.C,OPAMP(DUAL/LOWNOISE)		CVIAZ4580MTR-E1		
	IC814	00D2631289900	EOLitemI.C,OPAMP(DUAL/LOWNOISE)		CVIAZ4580MTR-E1		
	IC815	00D2631289900	EOLitemI.C,OPAMP(DUAL/LOWNOISE)		CVIAZ4580MTR-E1		
	IC831	23681011260AS	I.C,NetworkMediaprocessor(LFBGA-320P)		CVIDM860A		*
	IC832	nsp	I.C,1GNANDFLASH(48P-TSOP1)		CVIH27U1G8F2BTR-BC		
	IC833	246810063608S	I.C,256MSDRAM		CVIW9825G6JH-6		
	IC851	943239100700S	I.C,EthernetTransceiver(QFN-24P)		CVILAN8720ACPTR		*
	IC853	23671011050AS	I.C,IPODAUTHENTICATIONFROMD&M		CVI23671011050AS_DM		
	IC854	943239100710S	I.C,CURRENTLIMITE(1.5A,UDFN-6P)		CVINCP380HMU15AATBG		*
	IC855	943239100690S	I.C,2CHDAC(32BIT,384KHZ,TSSOP-20P)	1713E3	CVIPCM5100PWR		*
	IC856	943239010400S	I.C,REGULATOR(3.3V/TO-252)	1713E3	CVINJM2845DL133		
	IC861	nsp	I.C,HDMItransmitterwithI/PConverter(FBGA-289		CVISLI11131		*
	IC871	nsp	I.C,HDMIBUFFER		CVIAD8195ACPZ		
	IC891	943235100520S	I.C,INPUTWITH8CHVOLUME(52PLQFP)		CVINJU72340AFH3		*
	IC901	90M-HC109700R	I.C,VIDEOS/W(JRC)		CVINJM2595MTE1		
	Q7101	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C		
	Q7102	943216500040S	T.R,RT1N241C(22K-22K)		CVTRT1N241C		
	Q7103	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C		
	Q7104	943216500040S	T.R,RT1N241C(22K-22K)		CVTRT1N241C		
	Q7105	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C		
	Q7106	943216500040S	T.R,RT1N241C(22K-22K)		CVTRT1N241C		
	Q7107	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C		
	Q7108	943216500040S	T.R,RT1N241C(22K-22K)		CVTRT1N241C		
	Q7201	943215500020S	T.R,RT1P141C(10K-10K)	1713E3	CVTRT1P141C		
	Q7202	943216500040S	T.R,RT1N241C(22K-22K)	1713E3	CVTRT1N241C		
	Q7204	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q7205	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q7206	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q7501	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q7502	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111		
	Q7503	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		

NOTE :
When update Firmware, please confirm a last version in SDI. Use the service board after updating it.

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	Q7504	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111		
	Q7505	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q7506	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111		
	Q7507	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q7508	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111		
	Q7509	00D2710326904	T.R,2SA1954		CVT2SA1954		
	Q7510	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q7511	00D2710326904	T.R,2SA1954		CVT2SA1954		
	Q7512	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q7513	943214500020S	T.R,2SC3052		CVT2SC3052		
	Q7514	00D2710326904	T.R,2SA1954		CVT2SA1954		
	Q7515	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q7516	00D2710326904	T.R,2SA1954		CVT2SA1954		
	Q7517	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q7606	943214500020S	T.R,2SC3052		CVT2SC3052		
	Q7607	943214500020S	T.R,2SC3052		CVT2SC3052		
	Q7608	943214500030S	T.R,MUTE		CVTINC2001AC1		
	Q7701	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q7702	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q7703	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q7705	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q7706	943214500020S	T.R,2SC3052		CVT2SC3052		
	Q7709	943214500020S	T.R,2SC3052		CVT2SC3052		
	Q7712	943214500020S	T.R,2SC3052		CVT2SC3052		
	Q8301	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C		
	Q8302	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q8701	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C		
	Q8702	943216500040S	T.R,RT1N241C(22K-22K)		CVTRT1N241C		
	Q8901	943215500030S	T.R,RT1P441C(47K-47K)	1713E3	CVTRT1P441C		
	Q8902	943216500050S	T.R,RT1N441C(47K-47K)	1713E3	CVTRT1N441C		
	Q8903	943215500030S	T.R,RT1P441C(47K-47K)	1713E3	CVTRT1P441C		
	Q8905	943214500030S	T.R,MUTE	1713E3	CVTINC2001AC1		
	Q8907	943214500030S	T.R,MUTE	1713E3	CVTINC2001AC1		
	Q8908	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C		
	Q8909	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q8910	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C		
	Q8913	943214500030S	T.R,MUTE		CVTINC2001AC1		
	D7101	00D2760718902	DIODE,SCHOTTKY,30V		CVDRB521S-30		
	D7104	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	D7114	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	D7124	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	D7134	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	D7204	nsp	RES,CHIP(1005/5%/10Kohm)	1713E3	CRJ06IJ103T		
	D7231	00D2760718902	DIODE,SCHOTTKY,30V		CVDRB521S-30		
	D7232	963209003510S	DIODE,RELIABLEESDPROTECTION		CVDCDS3C05HDMI1		
	D7501	201310001503S	DIODE,ULTRA-HIGHSPEED		CVDKDS160RTKP		
	D7502	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T		
	D7503	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T		
	D7601	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T		
	D7602	201310001503S	DIODE,ULTRA-HIGHSPEED		CVDKDS160RTKP		
	D8505	943209001080S	DIODE,CHIP,SWITCHING	1713E3	CVD1SS355T		
	D8506	943209001080S	DIODE,CHIP,SWITCHING	1713E3	CVD1SS355T		
	D8905	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T		
	D8906	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T		
	D8907	90M-HD302380R	DIODE,ZENER,1/2W,3.6V		CVDZJ3.6BT		
	D8908	943209001080S	DIODE,CHIP,SWITCHING		CVD1SS355T		
	D8909	00D9430196306	DIODE,ZENER,1/2W,7.5V		CVDZJ7.5BT		
	D8910	00D9430196306	DIODE,ZENER,1/2W,7.5V		CVDZJ7.5BT		
RESISTORS GROUP							
	R7101	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R7102	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T		
	R7103	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R7106	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R7107	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R7108	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R7109	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T		
	R7110	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R7113	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R7114	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7115	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R7116	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T		
	R7117	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R7120	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R7121	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7122	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R7123	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T		
	R7124	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R7127	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R7128	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7129	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7130	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7131	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7133	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7134	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7135	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7136	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7137	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7140	nsp	RES,CHIP(1005/5%/2.2Kohm)		CRJ06IJ222T		
	R7141	nsp	RES,CHIP(1005/5%/2.2Kohm)		CRJ06IJ222T		
	R7142	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R7201	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7203	nsp	RES,CHIP(1005/5%/75ohm)		CRJ06IJ750T		
	R7204	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7205	nsp	RES,CHIP(1005/5%/1Kohm)	1713E3	CRJ06IJ102T		
	R7206	nsp	RES,CHIP(1005/5%/22Kohm)	1713E3	CRJ06IJ223T		
	R7207	nsp	RES,CHIP(1005/5%/47Kohm)	1713E3	CRJ06IJ473T		
	R7210	nsp	RES,CHIP(1005/5%/47Kohm)	1713E3	CRJ06IJ473T		
	R7211	nsp	RES,CHIP(1005/5%/4.7Kohm)	1713E3	CRJ06IJ472T		
	R7212	nsp	RES,CHIP(1608/1%/1.6Kohm)		CRJ10DF1601T		
	R7213	nsp	RES,CHIP(1608/1%/2Kohm)		CRJ10DF2001T		
	R7214	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R7216	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R7218	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7219	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7220	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7221	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7222	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7223	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7224	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7226	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7227	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7228	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7229	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7230	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R7231	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R7232	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7233	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7234	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7235	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7236	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7237	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7238	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7239	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7241	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R7243	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7244	nsp	RES,CHIP(1608/5%/390Kohm)		CRJ10DJ394T		
	R7245	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7246	nsp	RES,CHIP(1005/1%/1Kohm)		CRJ06IF1001T		
	R7247	nsp	RES,CHIP(1005/1%/1Kohm)		CRJ06IF1001T		
	R7250	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7252	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R7254	nsp	RES,CHIP(1608/5%/51ohm)		CRJ10DJ510T		
	R7255	nsp	RES,CHIP(1608/5%/51ohm)		CRJ10DJ510T		
	R7261	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R7262	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R7263	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R7264	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R7265	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R7266	nsp	RES,CHIP(1608/5%/5.1ohm)		CRJ10DJ5R1T		
	R7267	nsp	RES,CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T		
	R7268	nsp	RES,CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T		
	R7269	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7270	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R7271	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R7272	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R7273	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R7274	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7276	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7278	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7280	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R7281	nsp	RES,CHIP(1005/5%/5.6Kohm)		CRJ06IJ562T		
	R7282	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7283	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7284	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7286	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R7288	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7289	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7290	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7291	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7292	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7293	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7294	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7295	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7296	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7297	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7298	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7299	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7300	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7301	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7501	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7502	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7505	nsp	RES,CHIP(1608/1%/47Kohm)		CRJ10DF4702T		
	R7506	nsp	RES,CHIP(1608/5%/680Kohm)		CRJ10DJ684T		
	R7507	00MNN05154610	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T		
	R7508	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7512	90M-NN000680R	RES,CHIP(1608/1%/300Kohm)		CRJ10DF3003T		
	R7513	nsp	RES,CHIP(1608/5%/1.5Mohm)		CRJ10DJ155T		
	R7514	00MNN05154610	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T		
	R7515	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7516	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7519	nsp	RES,CHIP(1608/1%/470Kohm)		CRJ10DF4703T		
	R7520	00MNN05105610	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R7521	00MNN05154610	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T		
	R7526	nsp	RES,CHIP(1608/1%/120Kohm)		CRJ10DF1203T		
	R7527	00MNN05105610	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R7528	00MNN05154610	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T		
	R7529	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7530	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7531	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7532	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7533	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7534	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7535	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7536	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7537	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7538	nsp	RES,CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T		
	R7539	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7540	nsp	RES,CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R7541	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7542	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7543	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R7544	nsp	RES,CHIP(1005/5%/100Kohm)		CRJ06IJ104T		
	R7545	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R7546	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7547	nsp	RES,CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T		
	R7548	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7549	nsp	RES,CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T		
	R7550	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7601	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7602	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7603	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7604	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7605	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7609	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7611	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7616	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7617	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7618	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7619	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7620	00MNN05330610	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T		
	R7621	00MNN05330610	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T		
	R7622	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7625	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7626	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7627	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7628	00MNN05330610	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T		
	R7629	00MNN05330610	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T		
	R7631	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7632	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7633	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7634	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7638	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7639	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7641	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7643	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7644	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7645	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7650	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7651	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7652	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7653	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7654	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7655	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7656	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7657	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7660	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7661	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7663	nsp	RES,CHIP(1608/5%/0ohm)	1713E3	CRJ10DJ0R0T		
	R7663	nsp	RES,CHIP(1608/5%/10Kohm)	1713E1C	CRJ10DJ103T		
	R7663	nsp	RES,CHIP(1608/5%/18Kohm)	1613E3	CRJ10DJ183T		
	R7663	nsp	RES,CHIP(1608/5%/3.3Kohm)	1723E1C	CRJ10DJ332T		
	R7664	nsp	RES,CHIP(1608/5%/0ohm)	1713E3	CRJ10DJ0R0T		
	R7664	nsp	RES,CHIP(1608/5%/10Kohm)	1713E1C	CRJ10DJ103T		
	R7664	nsp	RES,CHIP(1608/5%/18Kohm)	1723E1C	CRJ10DJ183T		
	R7664	nsp	RES,CHIP(1608/5%/3.3Kohm)	1613E3	CRJ10DJ332T		
	R7665	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R7666	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R7667	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R7668	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7669	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R7677	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7678	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7679	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7681	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7682	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R7683	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7684	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7685	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7686	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7687	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7688	nsp	RES,CHIP(1005/5%/100Kohm)		CRJ06IJ104T		
	R7689	nsp	RES,CHIP(1005/5%/2.2Mohm)		CRJ06IJ225T		
	R7690	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7691	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R7692	nsp	RES,CHIP(1005/5%/100Kohm)		CRJ06IJ104T		
	R7693	nsp	RES,CHIP(1005/5%/220Kohm)		CRJ06IJ224T		
	R7694	nsp	RES,CHIP(1005/5%/27Kohm)		CRJ06IJ273T		
	R7695	nsp	RES,CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T		
	R7696	nsp	RES,CHIP(1005/5%/1.2Kohm)		CRJ06IJ122T		
	R7698	nsp	RES,CHIP(1005/5%/33ohm)	1713E3	CRJ06IJ330T		
	R7701	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7702	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7703	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7704	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R7705	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R7706	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R7707	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R7708	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R7709	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7710	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7711	00MNN05474610	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T		
	R7713	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7715	nsp	RES,CHIP(1005/5%/3.9Kohm)		CRJ06IJ392T		
	R7717	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7718	nsp	RES,CHIP(1005/5%/27Kohm)		CRJ06IJ273T		
	R7719	nsp	RES,CHIP(1005/5%/2.7Kohm)		CRJ06IJ272T		
	R7720	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7721	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R7722	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7723	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7724	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7725	nsp	RES,CHIP(1005/5%/27Kohm)		CRJ06IJ273T		
	R7726	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R7727	nsp	RES,CHIP(1005/5%/2.7Kohm)		CRJ06IJ272T		
	R7728	nsp	RES,CHIP(1005/5%/3.9Kohm)		CRJ06IJ392T		
	R7729	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R7730	00MNN05124610	RES,CHIP(1608/5%/120Kohm)		CRJ10DJ124T		
	R7731	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T		
	R7735	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R7736	00MNN05124610	RES,CHIP(1608/5%/120Kohm)		CRJ10DJ124T		
	R7737	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T		
	R7741	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R7801	nsp	RES,CHIP(1005/5%/150ohm)		CRJ06IJ151T		
	R7802	nsp	RES,CHIP(1005/5%/150ohm)		CRJ06IJ151T		
	R7803	nsp	RES,CHIP(1005/5%/470ohm)		CRJ06IJ471T		
	R7806	00MNN05334610	RES,CHIP(1608/5%/330Kohm)		CRJ10DJ334T		
	R7807	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R7808	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7813	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7816	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R7817	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7818	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7819	nsp	RES,CHIP(1005/5%/220ohm)		CRJ06IJ221T		
	R7820	00MNN05330610	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T		
	R7821	nsp	RES,CHIP(1005/5%/1Mohm)		CRJ06IJ105T		
	R7822	nsp	RES,CHIP(1005/5%/820ohm)		CRJ06IJ821T		
	R7823	nsp	RES,CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T		
	R7824	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7825	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R7826	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7828	00MNN05330610	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T		
	R7829	00MNN05330610	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R7830	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R7833	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7834	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7835	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R7836	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7837	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7840	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7841	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7842	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7843	00MNN05330610	RES,CHIP(1608/5%/33ohm)		CRJ10DJ330T		
	R7901	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R7902	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7903	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7904	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7905	nsp	RES,CHIP(1005/5%/1Mohm)		CRJ06IJ105T		
	R7906	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T		
	R7907	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7909	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7910	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7911	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7913	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7914	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7915	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R7916	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7917	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R7918	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R7919	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7920	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7922	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7923	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7924	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7925	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7926	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7927	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7928	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7929	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7930	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R7933	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7935	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R7936	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7938	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R7939	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7940	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R7941	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7942	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7943	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7944	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7945	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7946	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7947	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7948	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7949	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R7952	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R7953	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7954	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R7955	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7956	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R7957	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8102	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8104	00MNN05104610	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R8105	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8107	00MNN05104610	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R8108	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R8109	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R8110	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R8113	nsp	RES,CHIP(1608/0.5%/3.9Kohm)		CRJ06DD392TP		
	R8114	nsp	RES,CHIP(1608/0.5%/3.9Kohm)		CRJ06DD392TP		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R8115	nsp	RES,CHIP(1608/5%/270Kohm)		CRJ10DJ274T		
	R8116	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R8117	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R8118	nsp	RES,CHIP(1608/5%/270Kohm)		CRJ10DJ274T		
	R8119	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R8120	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R8121	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8122	nsp	RES,CHIP(1608/0.5%/3.9Kohm)		CRJ06DD392TP		
	R8123	nsp	RES,CHIP(1608/0.5%/3.9Kohm)		CRJ06DD392TP		
	R8124	nsp	RES,CHIP(1608/5%/270Kohm)		CRJ10DJ274T		
	R8125	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R8126	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R8127	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R8128	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R8129	nsp	RES,CHIP(1608/5%/270Kohm)		CRJ10DJ274T		
	R8130	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8131	nsp	RES,CHIP(1608/0.5%/3.9Kohm)		CRJ06DD392TP		
	R8132	nsp	RES,CHIP(1608/0.5%/3.9Kohm)		CRJ06DD392TP		
	R8133	nsp	RES,CHIP(1608/5%/270Kohm)		CRJ10DJ274T		
	R8134	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R8135	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R8137	nsp	RES,CHIP(1608/5%/270Kohm)		CRJ10DJ274T		
	R8138	nsp	RES,CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R8139	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R8140	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8141	nsp	RES,CHIP(1608/0.5%/3.9Kohm)		CRJ06DD392TP		
	R8142	nsp	RES,CHIP(1608/0.5%/3.9Kohm)		CRJ06DD392TP		
	R8144	00MNN05123610	RES,CHIP(1608/5%/12Kohm)		CRJ10DJ123T		
	R8145	00MNN05181610	RES,CHIP(1608/5%/180ohm)		CRJ10DJ181T		
	R8146	00MNN05181610	RES,CHIP(1608/5%/180ohm)		CRJ10DJ181T		
	R8147	00MNN05123610	RES,CHIP(1608/5%/12Kohm)		CRJ10DJ123T		
	R8149	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8150	nsp	RES,CHIP(1608/0.5%/3.9Kohm)		CRJ06DD392TP		
	R8151	nsp	RES,CHIP(1608/0.5%/3.9Kohm)		CRJ06DD392TP		
	R8152	00MNN05154610	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T		
	R8153	00MNN05682610	RES,CHIP(1608/5%/6.8Kohm)		CRJ10DJ682T		
	R8154	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R8155	00MNN05154610	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T		
	R8156	00MNN05682610	RES,CHIP(1608/5%/6.8Kohm)		CRJ10DJ682T		
	R8157	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R8158	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8159	nsp	RES,CHIP(1608/0.5%/3.9Kohm)		CRJ06DD392TP		
	R8160	nsp	RES,CHIP(1608/0.5%/3.9Kohm)		CRJ06DD392TP		
	R8161	00MNN05154610	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T		
	R8162	00MNN05682610	RES,CHIP(1608/5%/6.8Kohm)		CRJ10DJ682T		
	R8163	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R8164	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R8165	00MNN05682610	RES,CHIP(1608/5%/6.8Kohm)		CRJ10DJ682T		
	R8166	00MNN05154610	RES,CHIP(1608/5%/150Kohm)		CRJ10DJ154T		
	R8167	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8169	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8170	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8225	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8230	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8301	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8302	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8303	nsp	RES,CHIP(1005/5%/1.5Kohm)		CRJ06IJ152T		
	R8304	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R8305	nsp	RES,CHIP(1005/5%/12Kohm)		CRJ06IJ123T		
	R8306	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R8307	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R8308	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R8310	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R8311	nsp	RES,CHIP(1005/5%/1Mohm)		CRJ06IJ105T		
	R8312	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8313	nsp	RES,CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T		
	R8314	nsp	RES,CHIP(1005/5%/1.2Kohm)		CRJ06IJ122T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R8317	nsp	RES,CHIP(1005/5%/47ohm)		CRJ06IJ470T		
	R8318	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R8319	nsp	RES,CHIP(1005/5%/2.7Kohm)		CRJ06IJ272T		
	R8320	nsp	RES,CHIP(1005/5%/1.5Kohm)		CRJ06IJ152T		
	R8322	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8324	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8327	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8328	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8329	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8330	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8331	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8332	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8333	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8334	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R8336	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R8338	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R8343	nsp	RES,CHIP(1005/5%/1.5Kohm)		CRJ06IJ152T		
	R8344	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R8349	nsp	RES,CHIP(1005/5%/1Mohm)		CRJ06IJ105T		
	R8501	nsp	RES,CHIP(1005/5%/3.3ohm)		CRJ06IJ3R3T		
	R8502	nsp	RES,CHIP(1005/5%/3.3ohm)		CRJ06IJ3R3T		
	R8504	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R8505	nsp	RES,CHIP(1005/5%/10ohm)		CRJ06IJ100T		
	R8506	nsp	RES,CHIP(1608/5%/51ohm)		CRJ10DJ510T		
	R8507	nsp	RES,CHIP(1608/5%/51ohm)		CRJ10DJ510T		
	R8510	nsp	RES,CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R8512	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8513	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8514	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8516	943124003370S	RES,CHIP(1608/1%/12Kohm)		CRJ10DF1202T		
	R8520	90M-NN000600R	RES,CHIP(1608/1%/1.5Kohm)		CRJ10DF1501T		
	R8521	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8522	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8523	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8524	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8525	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8536	nsp	RES,CHIP(1005/5%/10Kohm)	1713E3	CRJ06IJ103T		
	R8542	nsp	RES,CHIP(1608/5%/51ohm)		CRJ10DJ510T		
	R8543	nsp	RES,CHIP(1608/5%/51ohm)		CRJ10DJ510T		
	R8544	nsp	RES,CHIP(1608/1%/100ohm)		CRJ10DF1000T		
	R8561	nsp	RES,CHIP(1005/5%/470ohm)	1713E3	CRJ06IJ471T		
	R8562	nsp	RES,CHIP(1005/5%/470ohm)	1713E3	CRJ06IJ471T		
	R8563	nsp	RES,CHIP(1005/5%/10Kohm)	1713E3	CRJ06IJ103T		
	R8564	nsp	RES,CHIP(1608/5%/10Kohm)	1713E3	CRJ10DJ103T		
	R8567	nsp	RES,CHIP(1005/5%/10Kohm)	1713E3	CRJ06IJ103T		
	R8569	nsp	RES,CHIP(1608/5%/0ohm)	1713E3	CRJ10DJ0R0T		
	R8570	nsp	RES,CHIP(1608/5%/0ohm)	1713E3	CRJ10DJ0R0T		
	R8603	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8604	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8608	943124001530S	RES,CHIP(1608/1%/470ohm)		CRJ10DF4700T		
	R8609	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8610	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8611	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8612	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8613	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8614	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8615	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8616	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8617	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8618	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8619	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8620	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8621	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8622	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8623	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8624	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8625	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R8626	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8627	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8628	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8629	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8630	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8631	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8632	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8633	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8634	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8635	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8636	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8637	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8638	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8639	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8640	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8641	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8642	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8643	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8644	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8645	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8646	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8648	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8649	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8650	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8651	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8652	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8653	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8654	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8655	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8656	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8657	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8659	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8660	nsp	RES,CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R8661	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8662	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8663	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8664	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8665	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8666	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8667	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8668	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8669	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8670	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8671	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8672	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8673	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8674	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8675	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8676	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8677	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8678	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8679	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8680	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8681	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8682	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8683	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8684	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8685	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8686	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8687	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8688	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8689	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8690	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8691	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8692	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8693	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8694	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R8695	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8696	nsp	RES,CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R8697	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8701	nsp	RES,CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R8702	nsp	RES,CHIP(1005/5%/22Kohm)		CRJ06IJ223T		
	R8703	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R8704	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R8706	nsp	RES,CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R8710	nsp	RES,CHIP(1005/5%/2Kohm)		CRJ06IJ202T		
	R8711	nsp	RES,CHIP(1005/5%/2Kohm)		CRJ06IJ202T		
	R8712	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R8714	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8715	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8717	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8718	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8720	nsp	RES,CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R8722	nsp	RES,CHIP(1005/5%/2Kohm)		CRJ06IJ202T		
	R8723	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R8901	00MNN05271610	RES,CHIP(1608/5%/270ohm)		CRJ10DJ271T		
	R8902	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8903	00MNN05273610	RES,CHIP(1608/5%/27Kohm)		CRJ10DJ273T		
	R8904	00MNN05561610	RES,CHIP(1608/5%/560ohm)		CRJ10DJ561T		
	R8905	00MNN05271610	RES,CHIP(1608/5%/270ohm)		CRJ10DJ271T		
	R8906	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8907	00MNN05273610	RES,CHIP(1608/5%/27Kohm)		CRJ10DJ273T		
	R8908	00MNN05561610	RES,CHIP(1608/5%/560ohm)		CRJ10DJ561T		
	R8909	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8910	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8911	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8912	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8913	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8917	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8918	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8919	00MNN05105610	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R8920	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8921	00MNN05105610	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R8922	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8923	00MNN05105610	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R8924	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8925	00MNN05105610	RES,CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R8926	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8937	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8938	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8939	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8940	943125500060S	RES,M-OXIDEFILM(1W/150ohm)		CRG1SANJ151RT		
	R8941	943125500060S	RES,M-OXIDEFILM(1W/150ohm)		CRG1SANJ151RT		
	R8942	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8943	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8944	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8945	00MNN05104610	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R8946	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R8947	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R8948	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R8949	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R8950	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R8951	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R8952	00MNN05471610	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R8953	00MNN05471610	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R8954	00MNN05471610	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R8955	00MNN05471610	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R8956	00MNN05471610	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R8957	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8958	00MNN05101610	RES,CHIP(1608/5%/100ohm)	1713E3	CRJ10DJ101T		
	R8959	00MNN05101610	RES,CHIP(1608/5%/100ohm)	1713E3	CRJ10DJ101T		
	R8960	00MNN05101610	RES,CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R8961	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R8962	nsp	RES,CHIP(1608/5%/10Kohm)	1713E3	CRJ10DJ103T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R8963	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R8964	00MNN05102610	RES,CHIP(1608/5%/1Kohm)	1713E3	CRJ10DJ102T		
	R8965	00MNN05102610	RES,CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R8966	00MNN05474610	RES,CHIP(1608/5%/470Kohm)	1713E3	CRJ10DJ474T		
	R8967	00MNN05474610	RES,CHIP(1608/5%/470Kohm)		CRJ10DJ474T		
	R8968	00MNN05471610	RES,CHIP(1608/5%/470ohm)	1713E3	CRJ10DJ471T		
	R8969	nsp	RES,CHIP(1608/5%/10Kohm)	1713E3	CRJ10DJ103T		
	R8971	00MNN05471610	RES,CHIP(1608/5%/470ohm)	1713E3	CRJ10DJ471T		
	R8972	00MNN05104610	RES,CHIP(1608/5%/100Kohm)	1713E3	CRJ10DJ104T		
	R8973	00MNN05104610	RES,CHIP(1608/5%/100Kohm)	1713E3	CRJ10DJ104T		
	R8974	00MNN05221610	RES,CHIP(1608/5%/220ohm)	1713E3	CRJ10DJ221T		
	R8976	nsp	RES,CHIP(1608/5%/10Kohm)	1713E3	CRJ10DJ103T		
	R8977	00MNN05471610	RES,CHIP(1608/5%/470ohm)	1713E3	CRJ10DJ471T		
	R8978	00MNN05471610	RES,CHIP(1608/5%/470ohm)	1713E3	CRJ10DJ471T		
	R8979	00MNN05104610	RES,CHIP(1608/5%/100Kohm)	1713E3	CRJ10DJ104T		
	R8980	00MNN05104610	RES,CHIP(1608/5%/100Kohm)	1713E3	CRJ10DJ104T		
	R8981	00MNN05221610	RES,CHIP(1608/5%/220ohm)	1713E3	CRJ10DJ221T		
	R8982	00MNN05471610	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R8983	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R8985	00MNN05471610	RES,CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R8986	00MNN05104610	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R8987	00MNN05104610	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R8988	00MNN05221610	RES,CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R8989	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8990	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8991	00MNN05821610	RES,CHIP(1608/5%/820ohm)		CRJ10DJ821T		
	R8992	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8994	00MNN05104610	RES,CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R8996	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R8999	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R9000	nsp	RES,CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R9001	nsp	RES,CHIP(1608/1%/75ohm)		CRJ10DF75R0T		
	R9002	nsp	RES,CHIP(1608/1%/75ohm)		CRJ10DF75R0T		
	R9003	00MNN05182610	RES,CHIP(1608/5%/1.8Kohm)		CRJ10DJ182T		
	R9004	nsp	RES,CHIP(1608/1%/82ohm)		CRJ10DF82R0T		
	R9005	nsp	RES,CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R9006	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	RN721	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN722	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN781	nsp	RES,CHIP(1005/5%/33ohm*2)		CRJ062IJ330T		
	RN782	nsp	RES,CHIP(1005/5%/33ohm*2)		CRJ062IJ330T		
	RN783	nsp	RES,CHIP(1005/5%/33ohm*2)		CRJ062IJ330T		
	RN784	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T		
	RN785	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN786	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN791	nsp	RES,CHIP(1005/5%/100ohm*4)		CRJ064IJ101T		
	RN792	nsp	RES,CHIP(1005/5%/100ohm*4)		CRJ064IJ101T		
	RN793	nsp	RES,CHIP(1005/5%/100ohm*4)		CRJ064IJ101T		
	RN794	nsp	RES,CHIP(1005/5%/100ohm*4)		CRJ064IJ101T		
	RN795	nsp	RES,CHIP(1005/5%/100ohm*4)		CRJ064IJ101T		
	RN796	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T		
	RN797	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T		
	RN798	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T		
	RN799	nsp	RES,CHIP(1005/5%/100ohm*4)		CRJ064IJ101T		
	RN800	nsp	RES,CHIP(1005/5%/100ohm*4)		CRJ064IJ101T		
	RN802	nsp	RES,CHIP(1005/5%/100ohm*4)		CRJ064IJ101T		
	RN803	nsp	RES,CHIP(1005/5%/100ohm*4)		CRJ064IJ101T		
	RN804	nsp	RES,CHIP(1005/5%/100ohm*4)		CRJ064IJ101T		
	RN805	nsp	RES,CHIP(1005/5%/100ohm*4)		CRJ064IJ101T		
	RN806	nsp	RES,CHIP(1005/5%/100ohm*4)		CRJ064IJ101T		
	RN807	nsp	RES,CHIP(1005/5%/0ohm*4)		CRJ064IJ0R0T		
	RN831	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T		
	RN832	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T		
	RN833	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T		
	RN834	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN835	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	RN836	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN837	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T		
	RN838	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T		
	RN839	nsp	RES,CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T		
	RN840	nsp	RES,CHIP(1005/5%/47ohm*4)		CRJ064IJ470T		
	RN841	nsp	RES,CHIP(1005/5%/47ohm*4)		CRJ064IJ470T		
	RN843	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN844	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN845	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN846	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN847	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN848	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN849	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN850	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN851	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN852	nsp	RES,CHIP(1005/5%/33ohm*4)	1713E3	CRJ064IJ330T		
	RN861	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN862	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	RN863	nsp	RES,CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
CAPACITORS GROUP							
	C7105	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7106	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7108	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7109	nsp	CAP,CHIP(1608,50V/1000pF)		CCUS1H102KC		
	C7111	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7112	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7113	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7114	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7204	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7205	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7206	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7207	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7208	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7209	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7210	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7211	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7212	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7213	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7214	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7215	nsp	CAP,CHIP(1608,10V/1uF)		CCUS1A105KC		
	C7218	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7219	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7220	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7221	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7222	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7223	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7224	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7225	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7228	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7229	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7230	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7231	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7232	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7233	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7234	nsp	CAP,CHIP(1608,50V/15pF)		CCUS1H150JA		
	C7235	nsp	CAP,CHIP(1608,50V/15pF)		CCUS1H150JA		
	C7236	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7237	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7238	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7240	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7241	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7242	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7243	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7244	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7245	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C7246	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7247	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7248	943134500060S	CAP,ELECT(50V/100uF)		CCEA1HH101T		
	C7249	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7250	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7251	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7252	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7255	nsp	CAP,CHIP(1608,10V/1uF)		CCUS1A105KC		
	C7256	nsp	CAP,CHIP(1608,10V/1uF)		CCUS1A105KC		
	C7259	nsp	CAP,CHIP(1608,10V/1uF)		CCUS1A105KC		
	C7260	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7269	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7296	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7298	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7299	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7300	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7301	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7302	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7501	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7504	nsp	CAP,CHIP(1005,25V/0.01uF)		CCUI1E103KC		
	C7505	nsp	CAP,CHIP(1005,50V/10pF)		CCUI1H100JA		
	C7506	nsp	CAP,CHIP(2012,10V/22uF)		CCUC1A226KC		
	C7507	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7508	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7509	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7512	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7515	nsp	CAP,CHIP(1005,25V/0.01uF)		CCUI1E103KC		
	C7516	nsp	CAP,CHIP(1005,50V/15pF)		CCUI1H150JA		
	C7517	nsp	CAP,CHIP(2012,10V/22uF)		CCUC1A226KC		
	C7518	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7519	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7520	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7523	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7526	nsp	CAP,CHIP(1005,25V/0.01uF)		CCUI1E103KC		
	C7527	nsp	CAP,CHIP(1005,50V/15pF)		CCUI1H150JA		
	C7528	nsp	CAP,CHIP(2012,10V/22uF)		CCUC1A226KC		
	C7529	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7530	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7531	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7534	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7537	nsp	CAP,CHIP(1005,25V/0.01uF)		CCUI1E103KC		
	C7538	nsp	CAP,CHIP(1005,50V/15pF)		CCUI1H150JA		
	C7539	nsp	CAP,CHIP(2012,10V/22uF)		CCUC1A226KC		
	C7540	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7541	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7542	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7547	nsp	CAP,CHIP(1005,25V/0.022uF)		CCUI1E223KC		
	C7548	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7549	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7550	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7551	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7552	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7553	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7554	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7555	00D9430103905	CAP,ELECT(16V/470uF)		CCEA1CH471T		
	C7557	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7559	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7560	00D9430103905	CAP,ELECT(16V/470uF)		CCEA1CH471T		
	C7563	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7564	nsp	CAP,CHIP(1005,25V/0.015uF)		CCUI1E153KC		
	C7565	nsp	CAP,CHIP(1608,10V/1uF)		CCUS1A105KC		
	C7566	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7569	nsp	CAP,CHIP(1608,10V/1uF)		CCUS1A105KC		
	C7570	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7572	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C7573	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C7574	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C7575	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C7601	nsp	CAP,CHIP(1608,50V/15pF)		CCUS1H150JA		
	C7602	nsp	CAP,CHIP(1608,50V/15pF)		CCUS1H150JA		
	C7603	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7604	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7605	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7606	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C7607	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7608	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7609	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7610	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7611	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7612	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7613	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7614	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7616	nsp	CAP,CHIP(1005,50V/220pF)		CCUI1H221JA		
	C7617	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7618	nsp	CAP,CHIP(1608,50V/0.01uF)		CCUS1H103KC		
	C7619	nsp	CAP,CHIP(1608,50V/0.01uF)		CCUS1H103KC		
	C7620	nsp	CAP,CHIP(1608,50V/0.01uF)		CCUS1H103KC		
	C7621	nsp	CAP,CHIP(1608,50V/0.01uF)		CCUS1H103KC		
	C7701	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7703	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7704	nsp	CAP,CHIP(1005,25V/0.01uF)		CCUI1E103KC		
	C7705	nsp	CAP,CHIP(1005,25V/0.01uF)		CCUI1E103KC		
	C7706	nsp	CAP,CHIP(1005,25V/0.01uF)		CCUI1E103KC		
	C7802	nsp	CAP,CHIP(1005,25V/0.01uF)		CCUI1E103KC		
	C7803	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7804	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7805	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7807	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7808	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7809	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7810	nsp	CAP,CHIP(1608,50V/0.022uF)		CCUS1H223KC		
	C7811	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7812	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7813	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7815	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C7816	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7817	nsp	CAP,CHIP(1608,50V/12pF)		CCUS1H120JA		
	C7818	nsp	CAP,CHIP(1608,50V/12pF)		CCUS1H120JA		
	C7819	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7820	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7821	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7822	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7823	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7824	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7825	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7901	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7902	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7903	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7904	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7905	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7906	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7907	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7908	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7909	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7910	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7911	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7912	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7913	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7914	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7915	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7916	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7917	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7918	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7919	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C7920	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7921	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7922	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7923	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7924	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7925	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7926	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7927	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7928	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7929	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7930	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7931	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7932	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7933	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7934	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7935	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7936	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7937	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7938	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7939	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7940	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7941	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7942	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7943	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7944	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7945	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7946	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7947	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7948	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7949	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7950	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7951	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7952	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7953	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7954	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7955	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7956	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7957	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7958	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7959	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7960	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7961	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7962	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7963	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7964	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7965	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7966	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7967	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7968	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7969	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7970	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7971	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7972	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7973	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7974	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7975	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7976	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7977	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C7978	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7979	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7980	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7981	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7982	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7983	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7984	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7985	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7986	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C7987	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C7988	nsp	CAP,CHIP(1608,50V/18pF)		CCUS1H180JA		
	C7989	nsp	CAP,CHIP(1608,50V/18pF)		CCUS1H180JA		
	C7990	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8101	nsp	CAP,CHIP(1608,50V/4700pF)		CCUS1H472KC		
	C8102	00D9430175108	CAP,ELECT(50V/10uF)		CCEA1HH100T		
	C8103	nsp	CAP,CHIP(1608,50V/4700pF)		CCUS1H472KC		
	C8104	00D9430175108	CAP,ELECT(50V/10uF)		CCEA1HH100T		
	C8105	nsp	CAP,CHIP(1608,10V/1uF)		CCUS1A105KC		
	C8106	nsp	CAP,CHIP(1608,10V/1uF)		CCUS1A105KC		
	C8108	nsp	CAP,CHIP(2012,10V/4.7uF)		CCUC1A475ZF		
	C8109	nsp	CAP,CHIP(1608,50V/1000pF)		CCUS1H102KC		
	C8110	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8112	nsp	CAP,CHIP(2012,10V/4.7uF)		CCUC1A475ZF		
	C8114	nsp	CAP,CHIP(2012,10V/4.7uF)		CCUC1A475ZF		
	C8115	00D9430062101	CAP,ELECT(16V/100uF)		CCEA1CH101T		
	C8116	nsp	CAP,CHIP(1608,50V/3900pF)		CCUS1H392KC		
	C8117	nsp	CAP,CHIP(1608,50V/680pF)		CCUS1H681JA		
	C8118	nsp	CAP,CHIP(1608,50V/680pF)		CCUS1H681JA		
	C8119	nsp	CAP,CHIP(1608,50V/3900pF)		CCUS1H392KC		
	C8120	nsp	CAP,CHIP(1608,50V/680pF)		CCUS1H681JA		
	C8121	nsp	CAP,CHIP(1608,50V/680pF)		CCUS1H681JA		
	C8122	00D9430062101	CAP,ELECT(16V/100uF)		CCEA1CH101T		
	C8125	00D9430062101	CAP,ELECT(16V/100uF)		CCEA1CH101T		
	C8126	nsp	CAP,CHIP(1608,50V/3900pF)		CCUS1H392KC		
	C8127	nsp	CAP,CHIP(1608,50V/680pF)		CCUS1H681JA		
	C8128	nsp	CAP,CHIP(1608,50V/680pF)		CCUS1H681JA		
	C8129	nsp	CAP,CHIP(1608,50V/3900pF)		CCUS1H392KC		
	C8130	nsp	CAP,CHIP(1608,50V/680pF)		CCUS1H681JA		
	C8131	nsp	CAP,CHIP(1608,50V/680pF)		CCUS1H681JA		
	C8134	nsp	CAP,CHIP(1608,50V/3900pF)		CCUS1H392KC		
	C8135	nsp	CAP,CHIP(1608,50V/470pF)		CCUS1H471JA		
	C8136	nsp	CAP,CHIP(1608,50V/470pF)		CCUS1H471JA		
	C8137	nsp	CAP,CHIP(1608,50V/3900pF)		CCUS1H392KC		
	C8138	nsp	CAP,CHIP(1608,50V/470pF)		CCUS1H471JA		
	C8139	nsp	CAP,CHIP(1608,50V/470pF)		CCUS1H471JA		
	C8142	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8143	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8144	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8145	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8146	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8147	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8148	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8149	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8150	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8151	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8152	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8153	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8154	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8155	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8156	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8157	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8158	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8159	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8160	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8161	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8162	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8163	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8164	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8165	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8304	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8305	nsp	CAP,CHIP(1608,50V/10pF)		CCUS1H100JA		
	C8306	nsp	CAP,CHIP(1608,50V/10pF)		CCUS1H100JA		
	C8307	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8308	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8309	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8310	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C8311	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8312	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8313	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8314	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8315	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8316	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8317	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8318	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8320	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8321	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8322	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8323	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8340	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8341	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8342	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8343	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8344	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8345	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8346	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8347	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8348	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8349	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8350	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8351	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8352	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8353	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8354	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8359	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8362	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8363	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8364	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8365	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8366	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8367	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8368	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8369	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8370	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8371	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8372	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8373	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8374	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8375	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8380	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8383	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8386	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8500	nsp	CAP,CHIP(1005,25V/0.022uF)		CCUI1E223KC		
	C8501	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8504	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8507	nsp	CAP,CHIP(1608,10V/1uF)		CCUS1A105KC		
	C8508	nsp	CAP,CHIP(1608,10V/1uF)		CCUS1A105KC		
	C8509	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8510	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8511	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8512	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8513	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8515	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8518	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8519	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8521	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8526	nsp	CAP,CHIP(1608,6.3V/4.7uF,MURATAGRM18)		CCUS0J475KC		
	C8527	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8552	nsp	CAP,CHIP(1005,50V/15pF)		CCUI1H150JA		
	C8553	nsp	CAP,CHIP(1005,50V/15pF)		CCUI1H150JA		
	C8555	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8556	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8558	nsp	CAP,CHIP(1608,50V/470pF)		CCUS1H471JA		
	C8559	nsp	CAP,CHIP(1608,10V/1uF)		CCUS1A105KC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C8561	nsp	CAP,CHIP(1005,16V/0.1uF)	1713E3	CCUI1C104KC		
	C8562	nsp	CAP,CHIP(1005,16V/0.1uF)	1713E3	CCUI1C104KC		
	C8563	nsp	CAP,CHIP(1608,6.3V/2.2uF)	1713E3	CCUS0J225KC		
	C8564	nsp	CAP,CHIP(1005,16V/0.1uF)	1713E3	CCUI1C104KC		
	C8565	nsp	CAP,CHIP(1608,6.3V/2.2uF)	1713E3	CCUS0J225KC		
	C8566	nsp	CAP,CHIP(1005,16V/0.1uF)	1713E3	CCUI1C104KC		
	C8567	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)	1713E3	CCUC0J106KC		
	C8568	nsp	CAP,CHIP(1608,50V/2200pF)	1713E3	CCUS1H222KC		
	C8569	nsp	CAP,CHIP(1608,50V/2200pF)	1713E3	CCUS1H222KC		
	C8570	nsp	CAP,CHIP(1005,16V/0.1uF)	1713E3	CCUI1C104KC		
	C8571	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)	1713E3	CCUC0J106KC		
	C8573	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)	1713E3	CCUC0J106KC		
	C8601	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8602	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8603	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8604	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8605	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8606	nsp	CAP,CHIP(1005,50V/1000pF)		CCUI1H102KC		
	C8607	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8608	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8609	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8610	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8611	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8612	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8613	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8614	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8615	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8616	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8617	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8618	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8619	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8620	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8621	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8622	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8623	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8624	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8625	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8626	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8627	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8628	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8629	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8630	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8631	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8632	nsp	CAP,CHIP(1608,50V/0.01uF)		CCUS1H103KC		
	C8633	nsp	CAP,CHIP(1608,50V/0.01uF)		CCUS1H103KC		
	C8634	nsp	CAP,CHIP(1608,50V/0.01uF)		CCUS1H103KC		
	C8672	nsp	CAP,CHIP(1005,16V/0.1uF)	1713E3	CCUI1C104KC		
	C8701	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8702	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8703	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8704	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8705	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8706	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C8707	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8708	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8709	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8710	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8711	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8712	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8713	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8714	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8715	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8716	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C8717	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C8718	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C8719	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C8720	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C8721	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8722	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C8723	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C8724	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C8725	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C8726	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C8727	nsp	CAP,CHIP(2012,6.3V/10uF,X5R)		CCUC0J106KC		
	C8728	nsp	CAP,CHIP(1005,25V/0.01uF)		CCUI1E103KC		
	C8730	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8731	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8732	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8733	nsp	CAP,CHIP(1005,16V/0.1uF)		CCUI1C104KC		
	C8904	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8905	00D9430103808	CAP,ELECT(10V/470uF)		CCEA1AH471T		
	C8909	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8910	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8912	nsp	CAP,CHIP(1608,50V/100pF)		CCUS1H101JA		
	C8913	nsp	CAP,CHIP(1608,50V/100pF)		CCUS1H101JA		
	C8914	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8915	nsp	CAP,CHIP(1608,50V/100pF)		CCUS1H101JA		
	C8916	nsp	CAP,CHIP(1608,50V/100pF)		CCUS1H101JA		
	C8917	nsp	CAP,CHIP(1608,50V/220pF)		CCUS1H221JA		
	C8918	nsp	CAP,CHIP(1608,50V/220pF)		CCUS1H221JA		
	C8919	nsp	CAP,CHIP(1608,50V/220pF)		CCUS1H221JA		
	C8920	nsp	CAP,CHIP(1608,50V/220pF)		CCUS1H221JA		
	C8922	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8923	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8924	943134500060S	CAP,ELECT(50V/100uF)		CCEA1HH101T		
	C8925	943134500060S	CAP,ELECT(50V/100uF)		CCEA1HH101T		
	C8928	943134500060S	CAP,ELECT(50V/100uF)		CCEA1HH101T		
	C8929	943134500060S	CAP,ELECT(50V/100uF)		CCEA1HH101T		
	C8930	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8931	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8932	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8933	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8934	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8935	943134500060S	CAP,ELECT(50V/100uF)		CCEA1HH101T		
	C8936	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8937	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8938	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8939	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8940	943134500060S	CAP,ELECT(50V/100uF)		CCEA1HH101T		
	C8941	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8945	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8946	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8952	943134500060S	CAP,ELECT(50V/100uF)		CCEA1HH101T		
	C8954	943134500060S	CAP,ELECT(50V/100uF)		CCEA1HH101T		
	C8955	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8956	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8957	00D9430175108	CAP,ELECT(50V/10uF)		CCEA1HH100T		
	C8958	00D9430175108	CAP,ELECT(50V/10uF)		CCEA1HH100T		
	C8959	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C8960	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C8961	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C8962	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C8963	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C8964	943134500070S	CAP,ELECT(100V/10uF)		CCEA2AH100T		
	C8965	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8966	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8967	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8968	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8969	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8970	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8971	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8972	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8973	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8974	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C8975	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8976	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8977	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8978	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8979	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8980	00D9430175108	CAP,ELECT(50V/10uF)		CCEA1HH100T		
	C8981	943134010470S	CAP,ELECT(50V/0.1uF)	1713E3	CCEA1HH0R1T		
	C8982	943134010590S	CAP,ELECT(50V/22uF)	1713E3	CCEA1HH220T		
	C8983	943134010590S	CAP,ELECT(50V/22uF)	1713E3	CCEA1HH220T		
	C8984	943134010590S	CAP,ELECT(50V/22uF)	1713E3	CCEA1HH220T		
	C8985	943134010590S	CAP,ELECT(50V/22uF)	1713E3	CCEA1HH220T		
	C8986	nsp	CAP,CHIP(1608,50V/330pF)	1713E3	CCUS1H331JA		
	C8987	nsp	CAP,CHIP(1608,50V/330pF)	1713E3	CCUS1H331JA		
	C8988	943134010470S	CAP,ELECT(50V/0.1uF)		CCEA1HH0R1T		
	C8989	943134010590S	CAP,ELECT(50V/22uF)		CCEA1HH220T		
	C8990	943134010590S	CAP,ELECT(50V/22uF)		CCEA1HH220T		
	C8991	nsp	CAP,CHIP(1608,50V/330pF)		CCUS1H331JA		
	C8992	nsp	CAP,CHIP(1608,50V/0.1uF)	1713E3	CCUS1H104KC		
	C8993	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8994	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8995	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8996	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C8997	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C9003	nsp	CAP,CHIP(1608,50V/22pF)		CCUS1H220JA		
	C9004	00D9430175108	CAP,ELECT(50V/10uF)		CCEA1HH100T		
	C9005	00D9430175108	CAP,ELECT(50V/10uF)		CCEA1HH100T		
	C9006	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C9007	00D9430175108	CAP,ELECT(50V/10uF)		CCEA1HH100T		
	C9008	nsp	CAP,CHIP(1608,50V/0.1uF)		CCUS1H104KC		
	C9009	00D9430175108	CAP,ELECT(50V/10uF)		CCEA1HH100T		
OTHERS PARTS GROUP							
	BK871	nsp	EARTH,HDMI		CMC1A422		
	CN721	nsp	WAFER,FFC,SMD(23P-1mm,STRAIGHT)		CJP23GA193ZY		
	CN722	nsp	WAFER,FFC,SMD(07P-1mm,STRAIGHT)		CJP07GA193ZY		
	CN751	nsp	LOCK-WAFER/STRAIGHT/2.5MMPITCH/5PIN		CJP05GI289ZY		
	CN761	nsp	WAFER,FFC1.25mm,STRAIGHT		CJP25GA285ZN		*
	CN762	nsp	WAFER,FFC,SMD(07P-1mm,STRAIGHT)		CJP07GA193ZY		
	CN763	nsp	WAFER,FFC,SMD(11P-1mm,STRAIGHT)		CJP11GA193ZY		
	CN771	nsp	LOCK-WAFER/STRAIGHT/2MMPITCH/7PIN		CJP07GI288ZY		
	CN772	nsp	WAFER,FFC(4P-1mm,ANGLE)		CJP04GB113ZY		
	CN781	nsp	WAFER,FFC,SMD(07P-1mm,STRAIGHT)		CJP07GA193ZY		
	CN791	nsp	WAFER,FFC,SMD(11P-1mm,STRAIGHT)		CJP11GA193ZY		
	CN831	nsp	WAFER,FFC,SMD(07P-1mm,STRAIGHT)		CJP07GA193ZY		
	CN832	nsp	WAFER,SMD(2MMPITCH)		CJP06GA208ZY		
	CN851	nsp	WAFER,SMD(2MMPITCH)		CJP05GA208ZY		
	CN871	nsp	WAFER,FFC,SMD(23P-1mm,STRAIGHT)		CJP23GA193ZY		
	CN891	nsp	PINSOCKET(11P,1.25mm,ANGLE,B-TO-B)		CJP11HJ282Z		
	CN892	nsp	LOCK-WAFER/STRAIGHT/2MMPITCH/13PIN		CJP13GI288ZY		
	CN893		LOCK-WAFER/STRAIGHT/2.5MMPITCH/9PIN		CJP09GI289ZY		
	ET75	nsp	PALTE,EARTH		HJT1A025		
	ET76	nsp	PALTE,EARTH		HJT1A025		
	JK701	943643100040S	JACK,HDMI(KSI-TWI,W/FLANGE)		CJJ9H014Z		
	JK702	943643100040S	JACK,HDMI(KSI-TWI,W/FLANGE)		CJJ9H014Z		
	JK703	943643100040S	JACK,HDMI(KSI-TWI,W/FLANGE)		CJJ9H014Z		
	JK704	943643100040S	JACK,HDMI(KSI-TWI,W/FLANGE)		CJJ9H014Z		
	JK721	943643100040S	JACK,HDMI(KSI-TWI,W/FLANGE)	1713E3	CJJ9H014Z		
	JK722	943643100040S	JACK,HDMI(KSI-TWI,W/FLANGE)		CJJ9H014Z		
	JK781	943643100170S	JACK,1P(ORG),SILVER		CJJ4M043Y		
	JK782	943262100150S	MODULE,OPTICAL(RX16MHz)		CJSJSR1124		*
	JK851	963643100130S	JACK,RJ-45W/TRANSFORMER		CJJ9L024Z		
	JK871	943643100040S	JACK,HDMI(KSI-TWI,W/FLANGE)		CJJ9H014Z		
	JK891	943643101570S	JACK,4P(W/R,W/R),SEPA-GND		CJJ4P048U		*

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	JK892	943643010150S	JACK,2P(W/R),SEPA-GND,SILVER	1713E3	CJJ4N034U		
	JK893	943643010160S	JACK,1P(BK),SEPA-GND,SILVER		CJJ4M046U		
	JK901	943643101130S	JACK,3P(YL),SILVER		CJJ4P076Z		
	L7101	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7201	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7202	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7203	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7204	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7205	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7206	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7209	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7210	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7211	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7501	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7502	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7503	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7504	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7505	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7506	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7507	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7508	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7509	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7510	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7511	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7512	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7513	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7514	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7515	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7516	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7517	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7518	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7519	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7520	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7521	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7601	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7602	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7603	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7604	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7605	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7606	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7607	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7608	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7609	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7610	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7611	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7612	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7613	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7614	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7615	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7616	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7617	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7618	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7619	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7620	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7621	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7622	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7623	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7624	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	L7701	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7702	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7703	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7704	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7705	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7706	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L7707	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L8301	nsp	FERRITECHIPBEAD(2012/220R)		CLZ9R006Z		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	L8302	nsp	FERRITECHIPBEAD(2012/220R)		CLZ9R006Z		
	L8303	nsp	FERRITECHIPBEAD(2012/220R)		CLZ9R006Z		
	L8503	nsp	COIL,CHOKECHIP(2012/180R)		CLZ9Z127Z		
	L8504	nsp	COIL,CHOKECHIP(2012/90R)		CLZ9Z128Z		
	L8505	nsp	COIL,CHOKECHIP(2012/90R)		CLZ9Z128Z		
	L8506	nsp	FERRITECHIPBEAD(2012/220R)		CLZ9R006Z		
	L8507	nsp	FERRITECHIPBEAD(2012/220R)		CLZ9R006Z		
	L8508	nsp	FERRITECHIPBEAD(2012/220R)		CLZ9R006Z		
	L8509	nsp	FERRITECHIPBEAD(2012/220R)		CLZ9R006Z		
	L8511	nsp	FERRITECHIPBEAD(2012/220R)		CLZ9R006Z		
	L8601	nsp	FERRITECHIPBEAD(2012/220R)		CLZ9R006Z		
	L8602	nsp	FERRITECHIPBEAD(2012/220R)		CLZ9R006Z		
	L8603	nsp	FERRITECHIPBEAD(2012/220R)		CLZ9R006Z		
	L8604	nsp	FERRITECHIPBEAD(2012/220R)		CLZ9R006Z		
	L8605	nsp	FERRITECHIPBEAD(2012/220R)		CLZ9R006Z		
	L8607	nsp	FERRITECHIPBEAD(2012/220R)		CLZ9R006Z		
	L8701	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L8702	nsp	RES,CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L8901	nsp	FERRITECHIPBEAD(1608/60R)		CLZ9R005Z		
	X7201	943141100600S	X-TAL,SMD3.2X2.5,28.636MHz,12PF		COX28636I120ST		*
	X7601	943141100610S	X-TAL,SMD3.2X2.5,12.000MHz,10PF		COX12000I100ST		*
	X7801	943141100620S	X-TAL,SMD3.2X2.5,24.576MHz,12PF		COX24576I120ST		*
	X7901	943141100630S	X-TAL,SMD3.2X2.5,18.750MHz,12PF		COX18750I120ST		*
	X8301	943141100640S	X-TAL,SMD3.2X2.5,24.000MHz,8PF		COX24000I080ST		*

Personal notes: