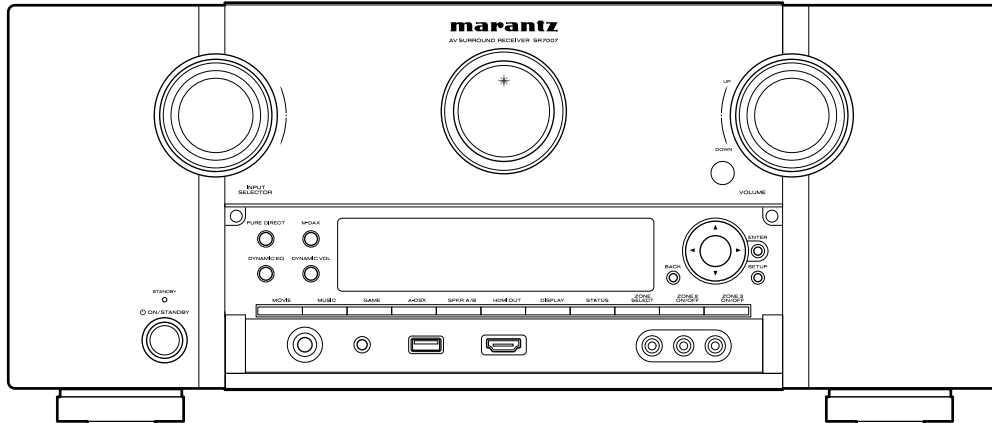


Service Manual

SR7007 /U1B,K1B

N1SG,N1B

AV Surround 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.

marantz®

SR7007

Ver. 4

Please refer to the
MODIFICATION NOTICE.

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ABOUT THIS MANUAL

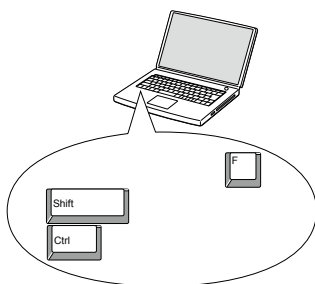
Read the following information before using the service manual.

What you can do with this manual

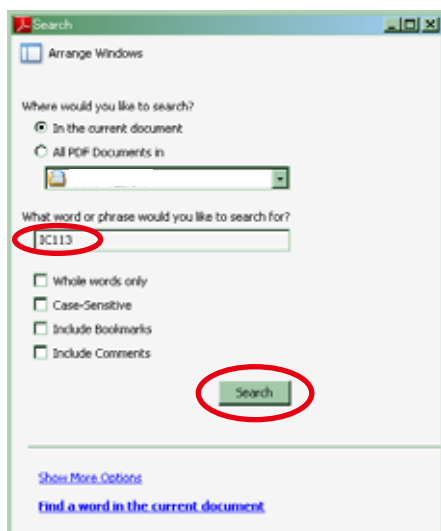
Search for a Ref. No. (phrase) (Ctrl+Shift+F)

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

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



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

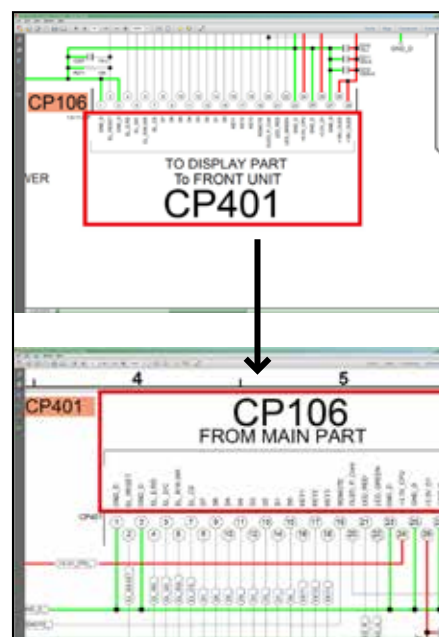


3. Click an item on the list.
 - The screen jumps to the page for that item, and the search phrase is displayed.

Jump to the target of a schematic diagram connector

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

- The screen jumps to the target connector.



- Page magnification stays the same as before the jump.

Using Adobe Reader (Windows version)

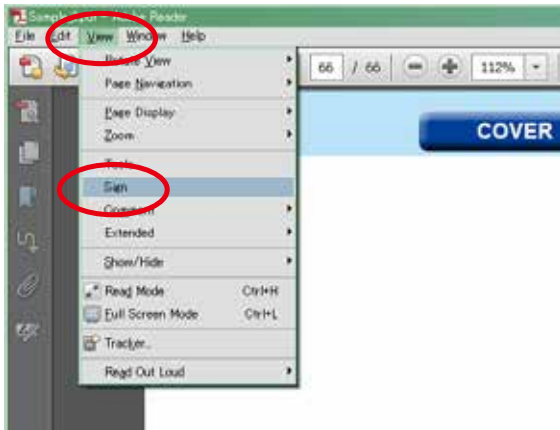
Add notes to this data (Sign)

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

[Example using Adobe Reader X]

On the "View" menu, click "Sign".

- The Sign pane appears.



[Example using Adobe Reader 9]

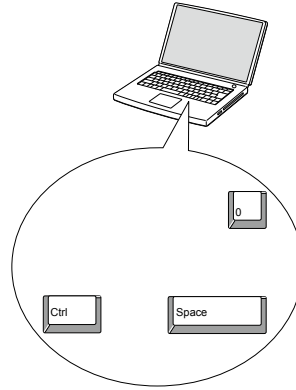
On the "Document" menu, click "Sign".

Magnify schematic / printed wiring board diagrams - 1

(Ctrl+Space, mouse operation)

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

- The selected area is magnified.



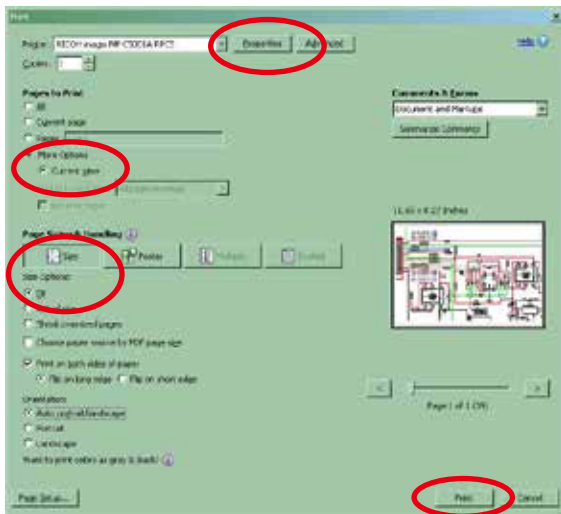
- When you want to move the area shown, hold down **Space** and drag the mouse.

- When you want to show a full page view, press **Ctrl+0** on the keyboard.

Print a magnified part of the manual

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

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



• 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.

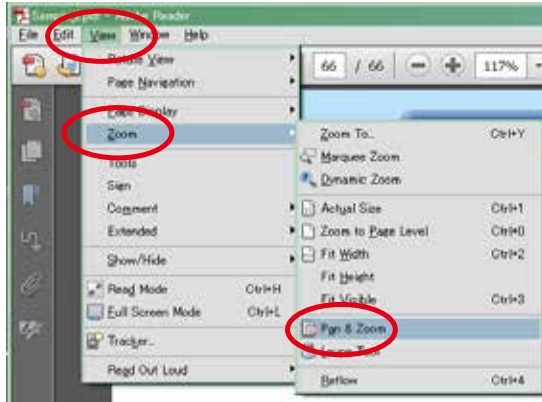
Magnify schematic / printed wiring board diagrams - 2

(Pan & Zoom function)

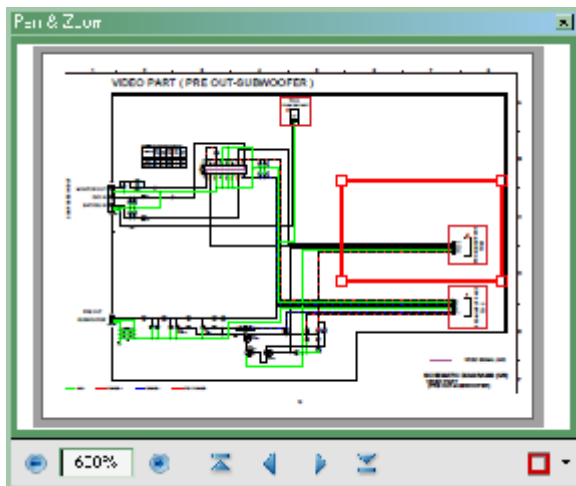
The Pan & Zoom function lets you see which part of a magnified diagram is being shown in a separate window.

[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".

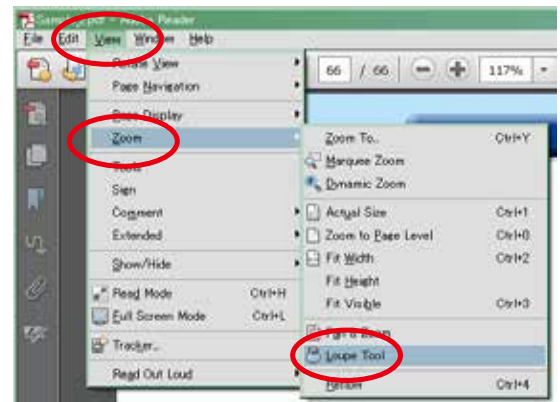
Magnify schematic / printed wiring board diagrams - 3

(Loupe Tool function)

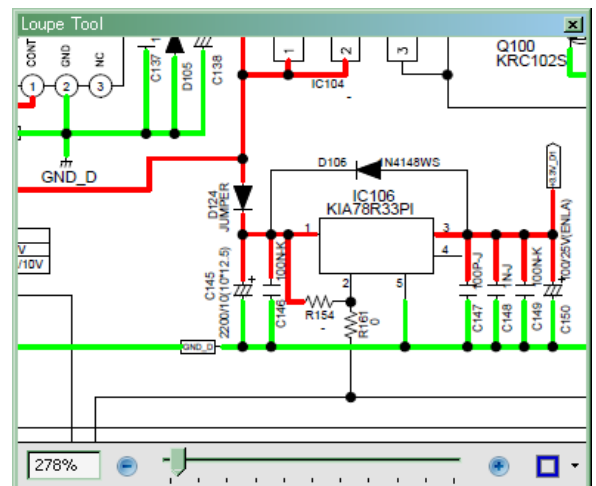
The Loupe Tool function lets you magnify a specific part of a diagram in a separate window.

[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".

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **marantz** company has created the ultimate in stereo sound. Only original **marantz** parts can insure that your **marantz** product will continue to perform to the specifications for which it is famous.

Parts for your **marantz** equipment are generally available to our National Marantz Subsidiary or agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

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NOTE ON SAFETY :

Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol ⚠ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 :

⚠ がついている部品は、安全上重要な部品です。必ず指定されている部品番号のものを使用してください。

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 60065.

In case of difficulties, do not hesitate to contact the Technical
Department at above mentioned address.

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 $\triangle$ 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 reasons, 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 1M Ω 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 $\triangle$ mark.
- (2) Parts lists.....Indicated by the $\triangle$ 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 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 :

125 W + 125 W (8 Ω , 20 Hz – 20 kHz with 0.08 % T.H.D.)

Center :

125 W (8 Ω , 20 Hz – 20 kHz with 0.08 % T.H.D.)

Surround :

125 W + 125 W (8 Ω , 20 Hz – 20 kHz with 0.08 % T.H.D.)

Surround back / Front height / Front wide :

125 W + 125 W (8 Ω , 20 Hz – 20 kHz with 0.08 % T.H.D.)

Maximum effective output power:

Front :

195 W + 195 W (6 Ω , 1 kHz with 10 % T.H.D.)

Center :

195 W (6 Ω , 1 kHz with 10 % T.H.D.)

Surround :

195 W + 195 W (6 Ω , 1 kHz with 10 % T.H.D.)

Surround back / Front height / Front wide :

195 W + 195 W (6 Ω , 1 kHz with 10 % T.H.D.)

Output connectors : 6 – 8 Ω

• Analog

Input sensitivity/Input impedance : 200 mV/47 k Ω

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

S/N : 96 dB (IHF–A weighted, DIRECT mode)

Distortion: 0.008 % (20 Hz – 20 kHz) (DIRECT mode)

Rated output : 1.2 V

• Digital

D/A output : Rated output — 2 V (at 0 dB playback)

Total harmonic distortion — 0.008 % (1 kHz, at 0 dB)

S/N ratio — 102 dB

Dynamic range — 100 dB

Digital input : Format — Digital audio interface

• Phono equalizer (PHONO input — MEDIA PLAYER OUT)

Input sensitivity : 2.5 mV

RIAA deviation: ± 1 dB (20 Hz to 20 kHz)

S/N : 74 dB (A weighting, with 5 mV input)

Rated output: 150 mV

Distortion factor : 0.03 % (1 kHz, 3 V)

□ Video section

• Standard video connectors

Input/output level and impedance : 1 Vp-p, 75 Ω

Frequency response: 5 Hz – 10 MHz — 0, –3 dB

• Color component video connector

Input/output level and impedance : Y (brightness) signal — 1 Vp-p, 75 Ω

P_B / C_B signal — 0.7 Vp-p, 75 Ω

P_R / C_R signal — 0.7 Vp-p, 75 Ω

Frequency response: 5 Hz – 60 MHz — 0, –3 dB

□ Tuner section (U model)

(ANTENNA input – MEDIA PLAYER OUT)

[FM](Note: μ V at 75 Ω , 0 dBf = 1×10^{-15} W)

Receiving Range :

[FM] 87.5 MHz – 107.9 MHz

[AM] 530 kHz – 1710 kHz

Usable Sensitivity :

[FM] 1.5 μ V (14.8 dBf)

[AM] 20 μ V

S/N (IHF–A weighted) :

[FM] MONO 78 dB

STEREO 68 dB

HD 85 dB

[AM] 85 dB

Distortion (1 kHz) :

[FM] MONO 0.1 %

STEREO 0.2 %

HD 0.02 %

[AM] 0.02 %

□ Tuner section (N, K model)

(ANTENNA input – MEDIA PLAYER OUT)

[FM](Note: μ V at 75 Ω , 0 dBf = 1×10^{-15} W)

Receiving Range :

[FM] 87.5 MHz – 108.0 MHz

[AM] 522 kHz – 1611 kHz

Usable Sensitivity :

[FM] 1.2 μ V (12.8 dBf)

[AM] 18 μ V

50 dB Quieting Sensitivity :

[FM] MONO 2.0 μ (17.3 dBf)

STEREO 34.5 μ V (42 dBf)

S/N :

[FM] MONO 72 dB (IHF–A weighted, DIRECT mode)

STEREO 67 dB (IHF–A weighted, DIRECT mode)

HD 85 dB

Distortion (1 kHz) :

[FM] MONO 0.3 %

STEREO 0.7 %

□ General

Power supply (for U model) : AC 120 V, 60 Hz

Power supply (for N model) : AC 230 V, 50/60 Hz

Power supply (for K model) : AC 220 V, 50 Hz

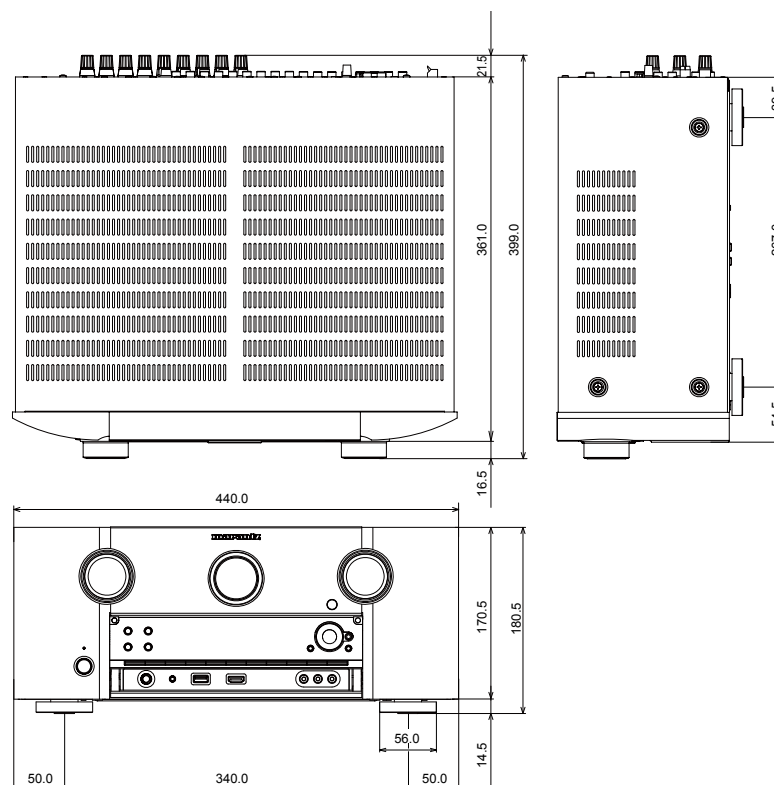
Power consumption : 670 W

Power consumption in standby mode : 0.2 W

Power consumption in CEC standby mode : 0.5 W

Power consumption in network standby mode : 2.7 W

DIMENSION



CAUTION IN SERVICING

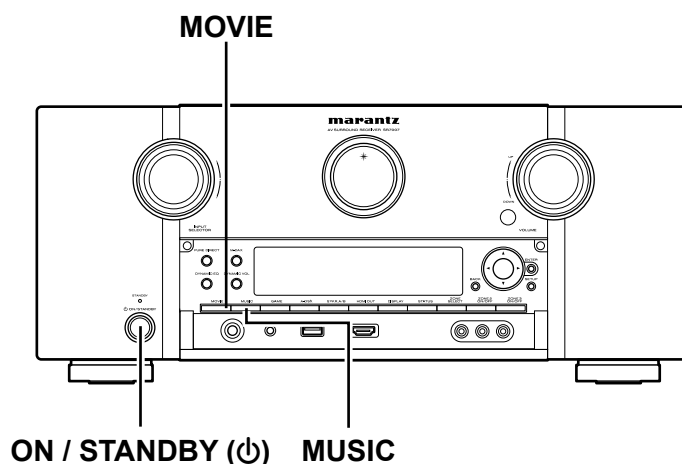
Initializing AV SURROUND RECEIVER

AV SURROUND RECEIVER initialization should be performed when the μ com, peripheral parts of μ com, and Digital PCB. were replaced.

1. Turn off the "ON/STANDBY (ϕ)" button.
2. Press "ON/STANDBY (ϕ)" button while simultaneously while pressing "MOVIE" and "MUSIC" 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 marantz Official Service Distributor in your region if necessary.

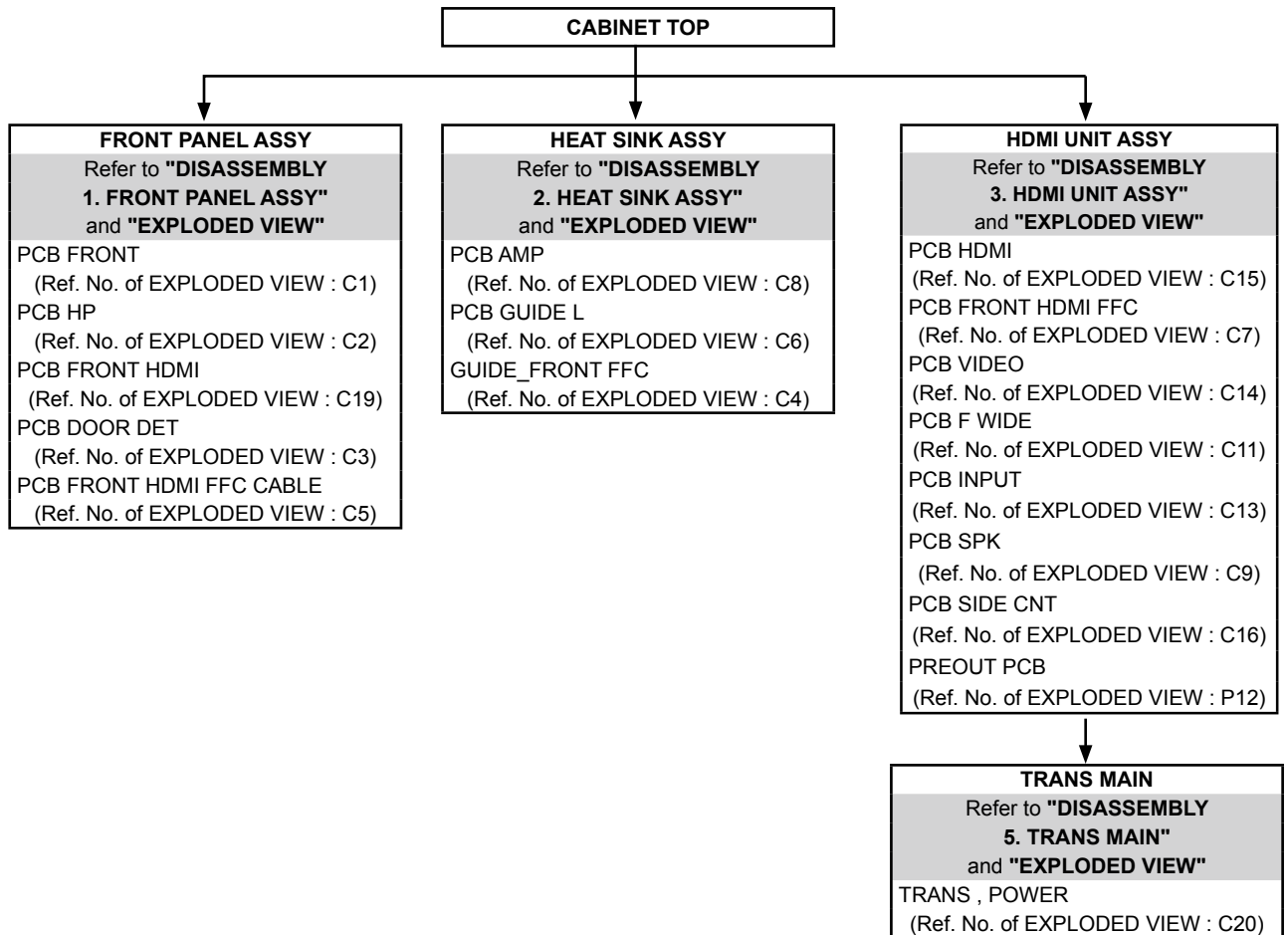
8U-110084S : EXTENSION UNIT KIT : 2 Set

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 marantz Official Service Distributor in your region if necessary.

8U-210100S : WRITING KIT : 1 Set
(Refer to 65 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.

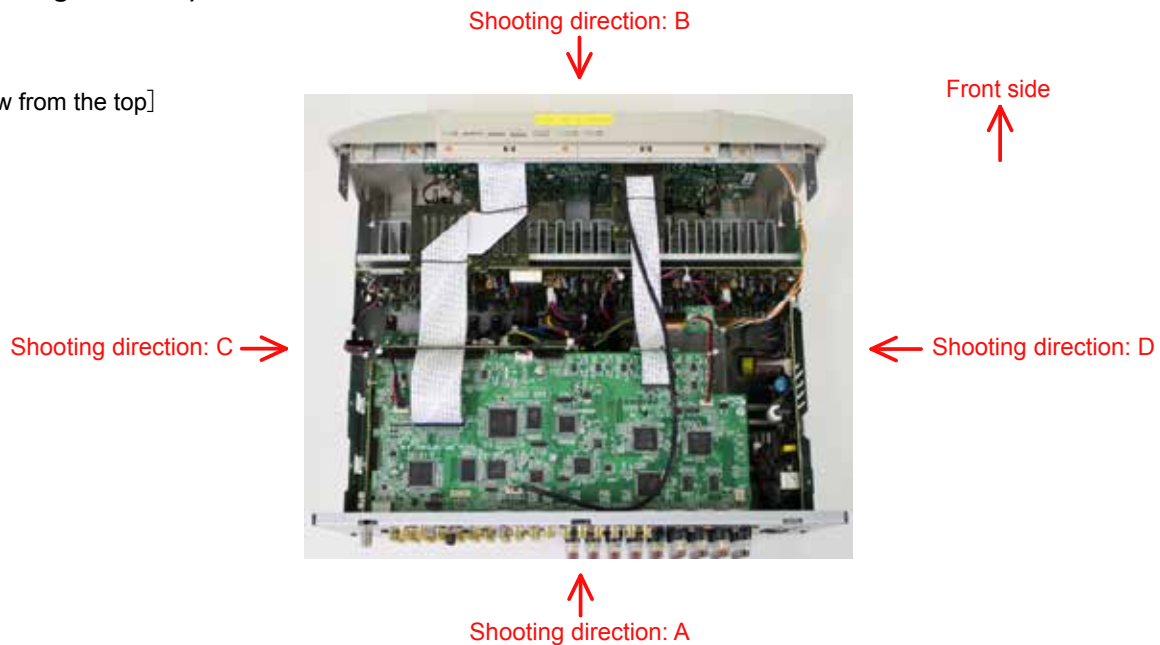


About the photos used for "descriptions of the DISASSEMBLY" section

- The shooting direction of each photograph used herein is indicated on the left side of the respective photograph as "Shooting direction: ****".
- 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 SR7007 model.

The viewpoint of each photograph (Shooting direction)

[View from the top]



1. FRONT PANEL ASSY

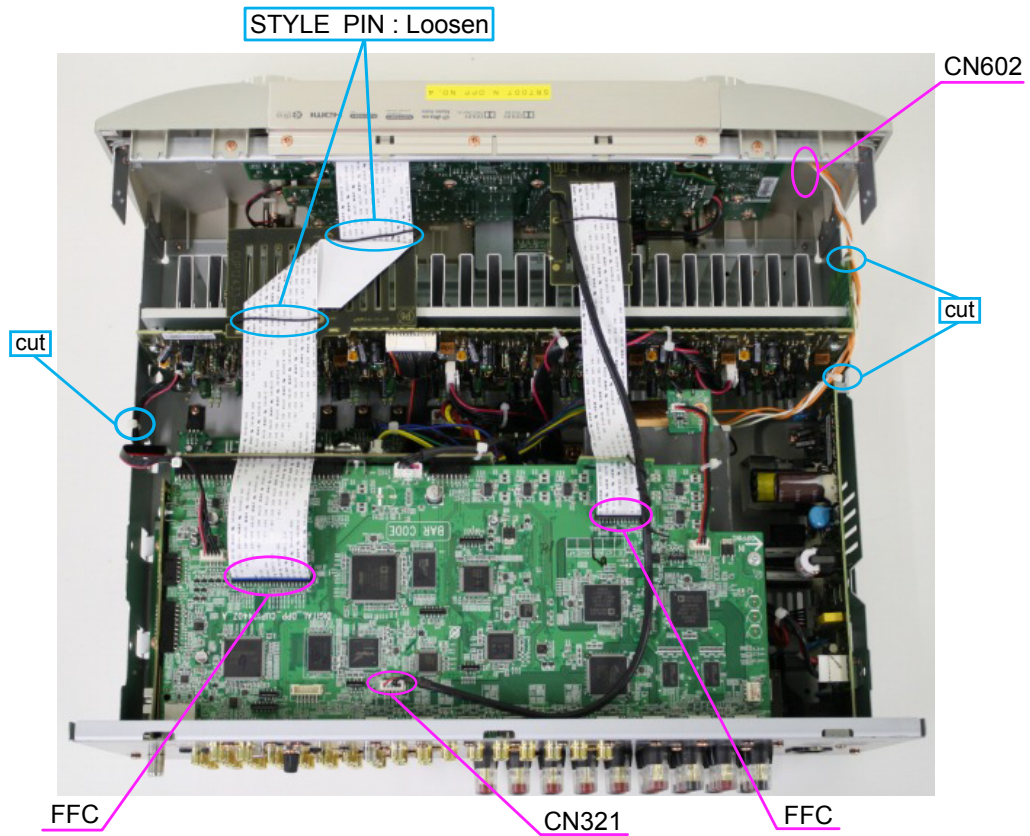
Proceeding : **CABINET TOP** → **FRONT PANEL ASSY**

- (1) Remove the screws.

View from the bottom

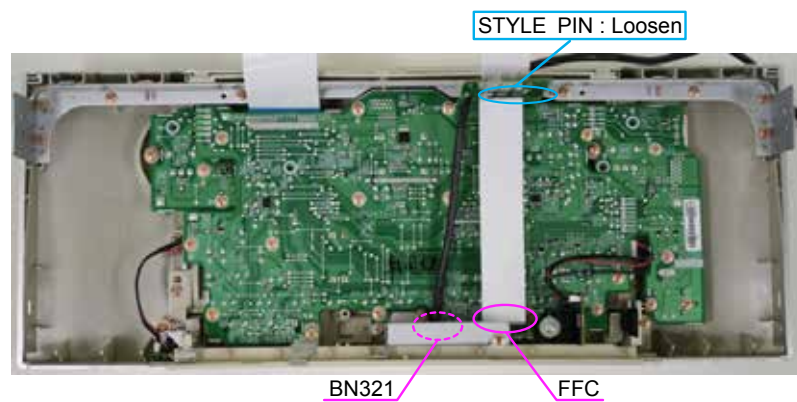


(2) Cut the wire clamp band, then disconnect the connector wires and FFC.



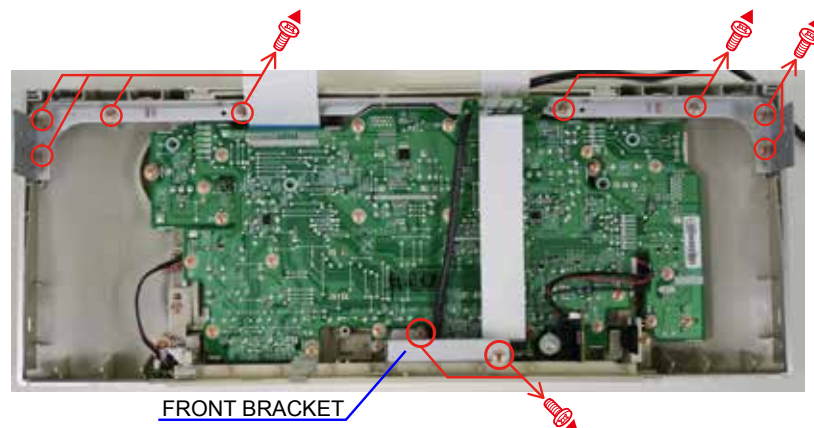
(3) Disconnect the connector wire and FFC.

Shooting of photograph: A

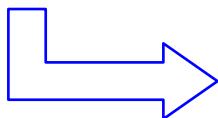
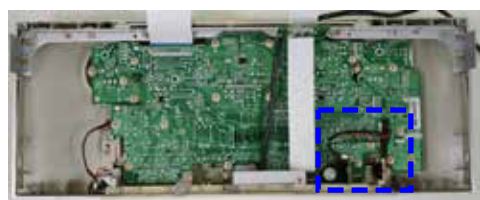


(4) Remove the screws, then detach the FRONT BRACKET.

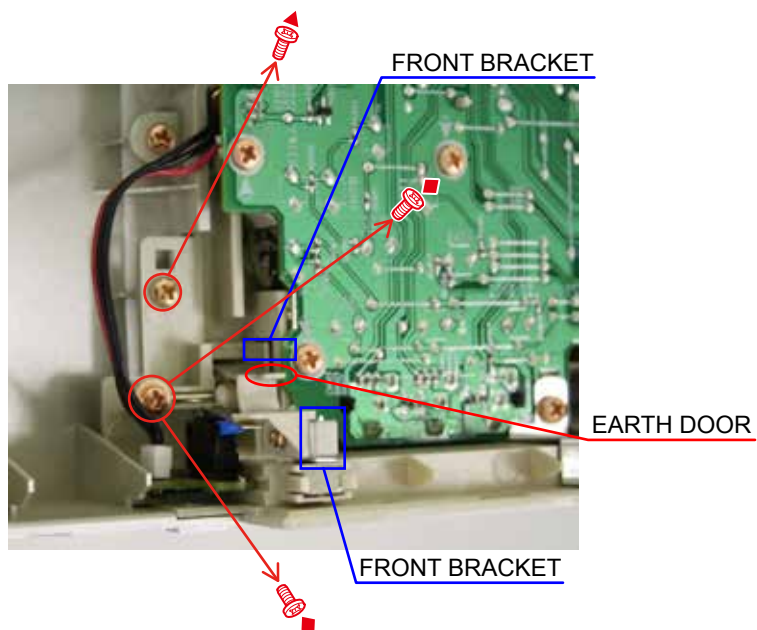
Shooting of photograph: A



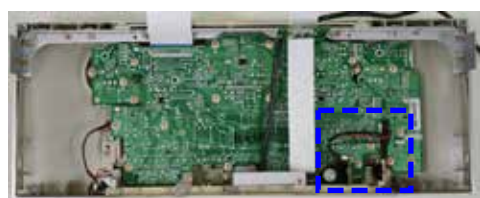
(5) Remove the screws.



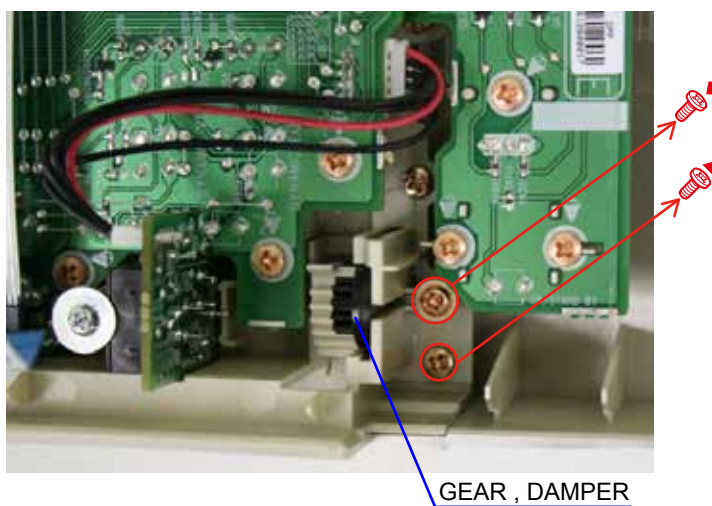
Shooting of photograph: A



(6) Remove the screws.



Shooting of photograph: A

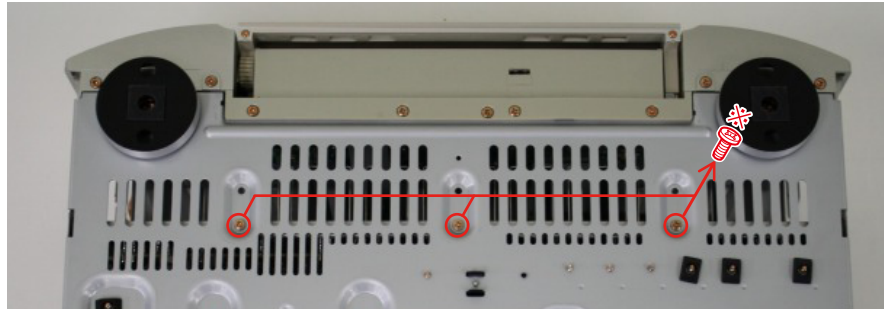


2. HEAT SINK ASSY

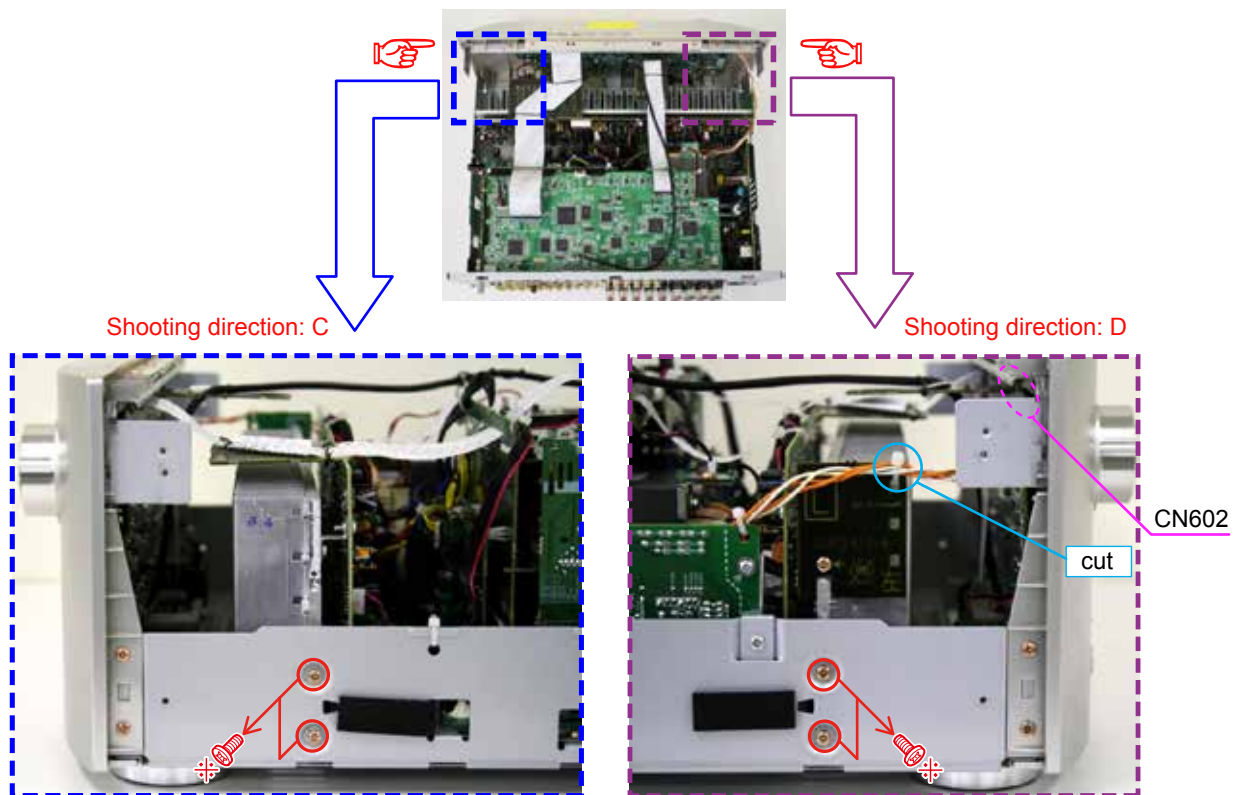
Proceeding : **CABINET TOP** → **HEAT SINK ASSY**

- (1) Remove the screws.

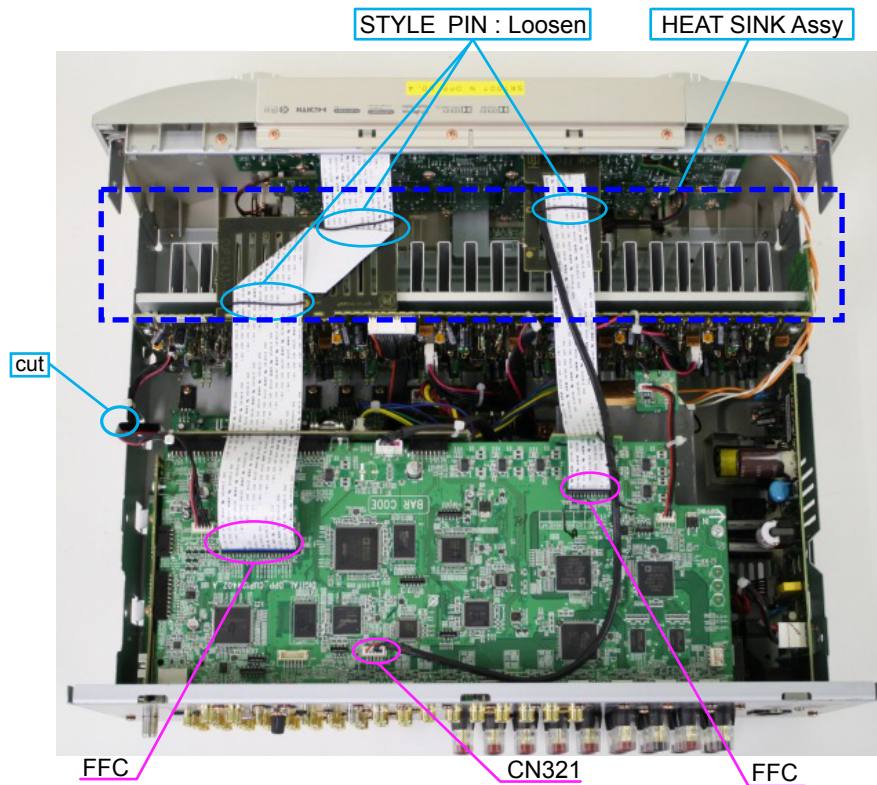
View from the bottom



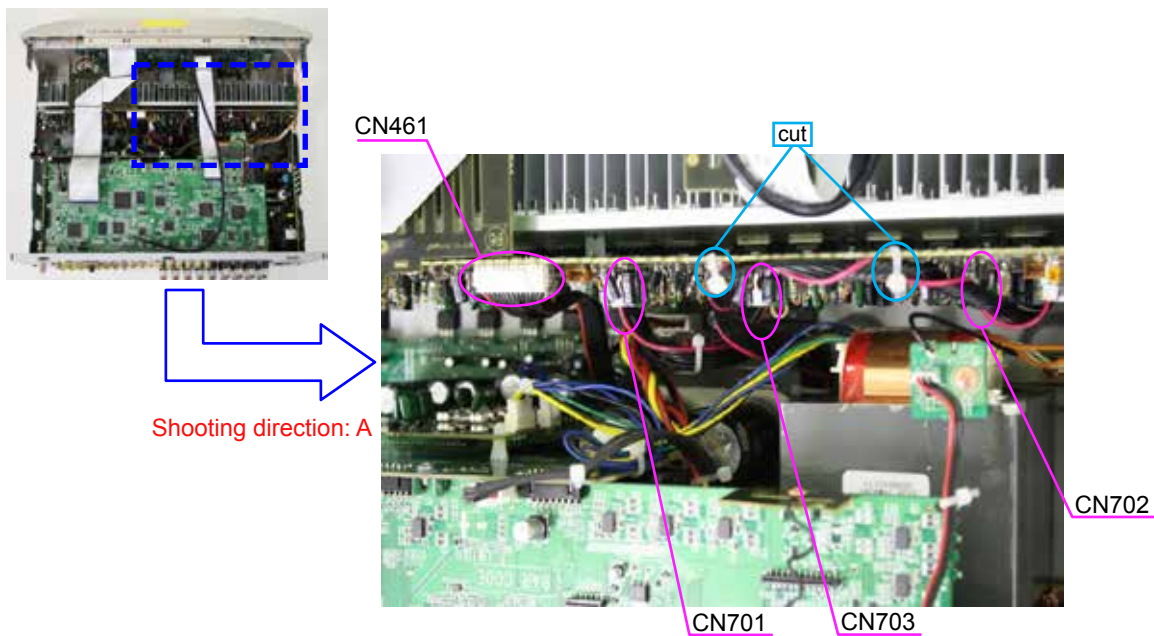
- (2) Cut the wire clamp band, then remove the screws. Disconnect the connector wires.



(3) Cut the wire clamp band, then disconnect the connector wire and FFC.



(4) Cut the wire clamp bands, then disconnect the connector wires.



Please refer to "EXPLODED VIEW" for the disassembly method of each P.W.B included in HEAT SINK ASSY.

3. HDMI UNIT ASSY

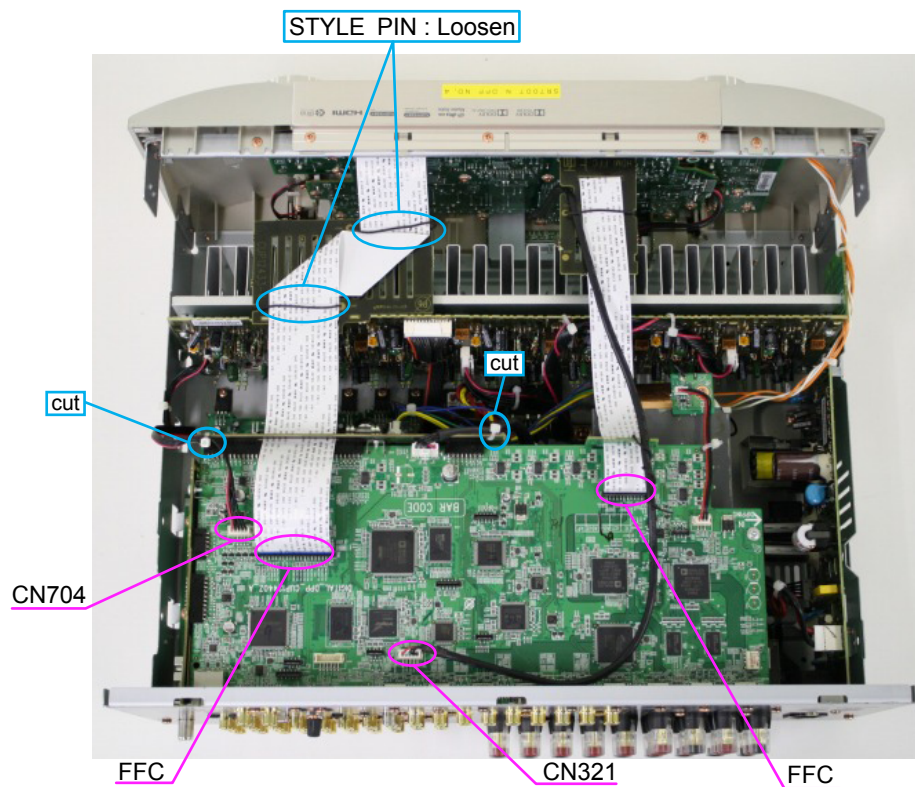
Proceeding : **CABINET TOP** → **HDMI UNIT ASSY**

- (1) Remove the screws, then remove the BACK PANEL and the HDMI BRACKET.

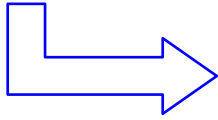
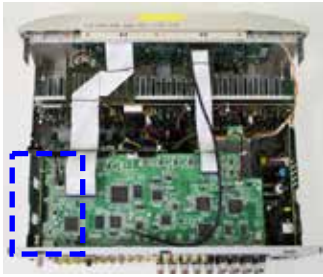
Shooting of photograph: A



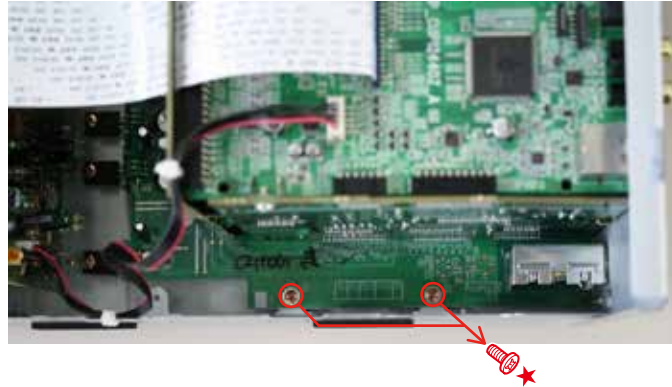
- (2) Cut the wire clamp band, then disconnect the connector wires and the FFC.
Remove the PCB DOCK from the PCB SIDE CNT and PCB RS232C(Board to board).



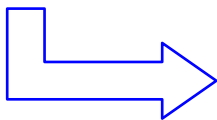
(3) Disconnect the connector wire. Remove the screws.



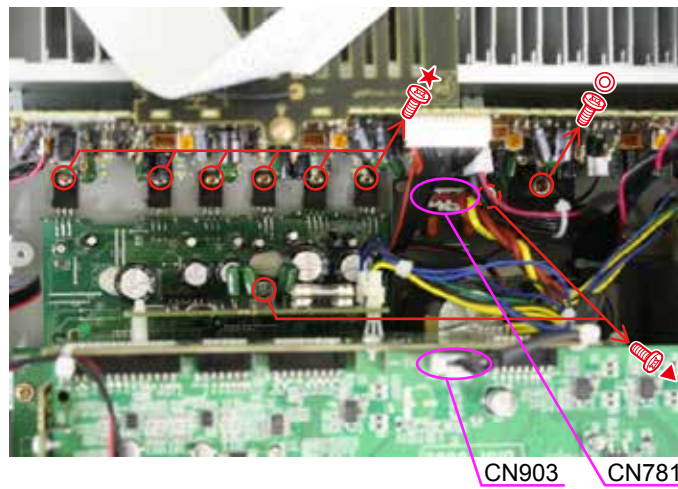
Shooting direction: C



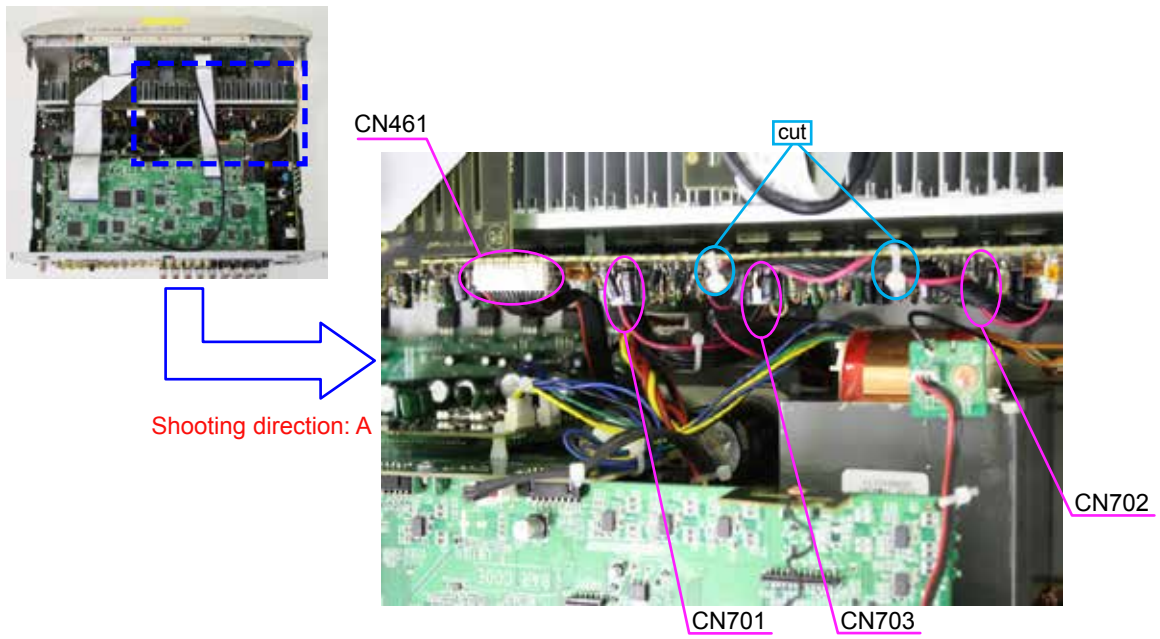
(4) Remove the screws, then disconnect the connector wires.



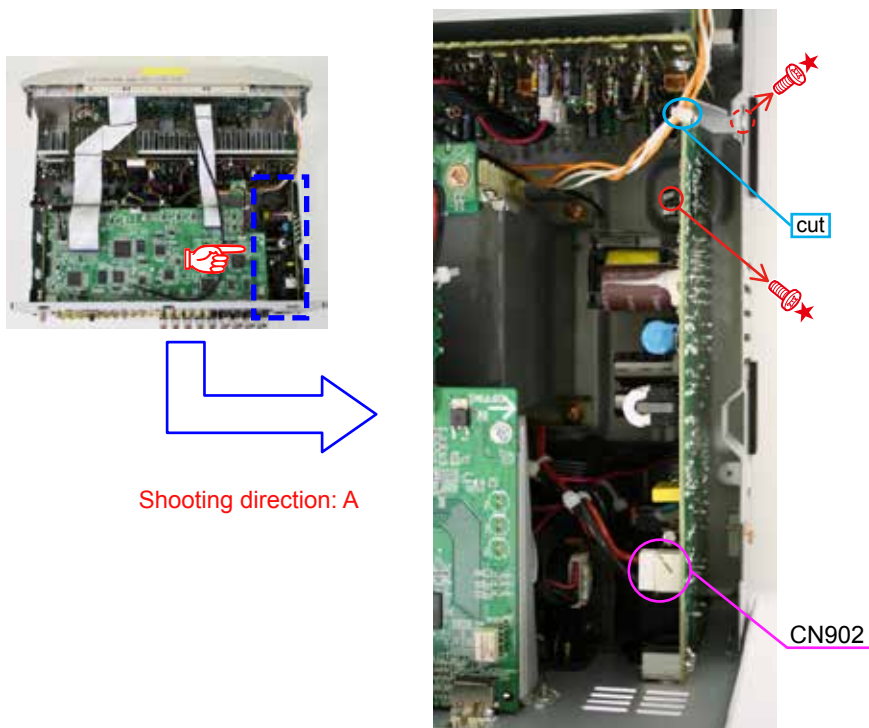
Shooting direction: A



(5) Cut the wire clamp band, then disconnect the connector wires.

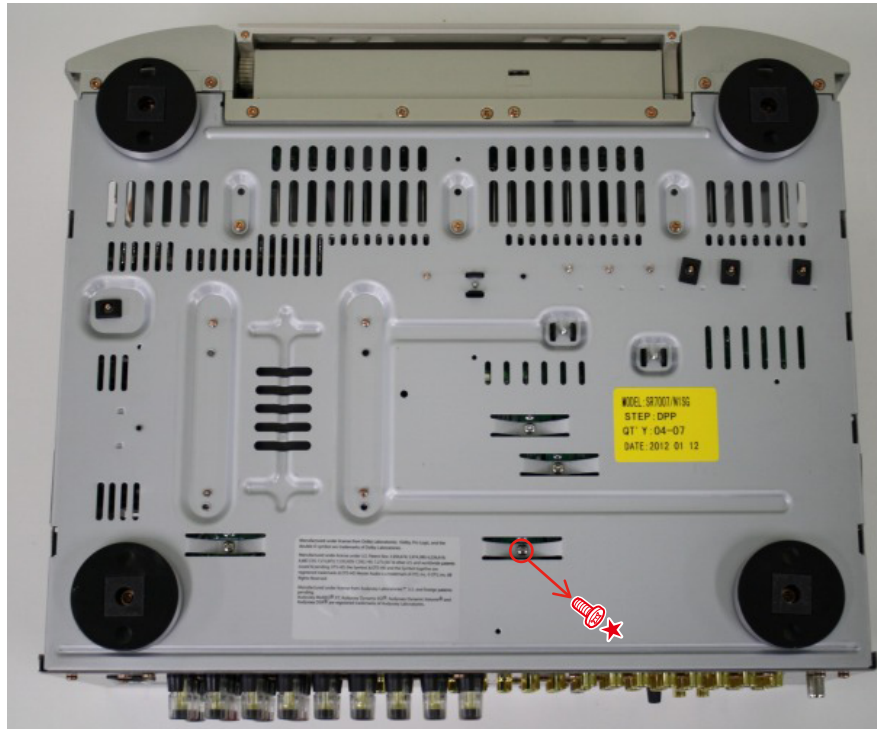


(6) Cut the wire clamp bands, then disconnect the connector wires, and remove the screws.



(7) Remove the screw.

View from the bottom



Please refer to "EXPLODED VIEW" for the disassembly method of each P.W.B included in HDMI UNIT ASSY.

4. TRANS MAIN

Proceeding : **CABINET TOP** → **HDMI UNIT ASSY** → **POWER TRANS**

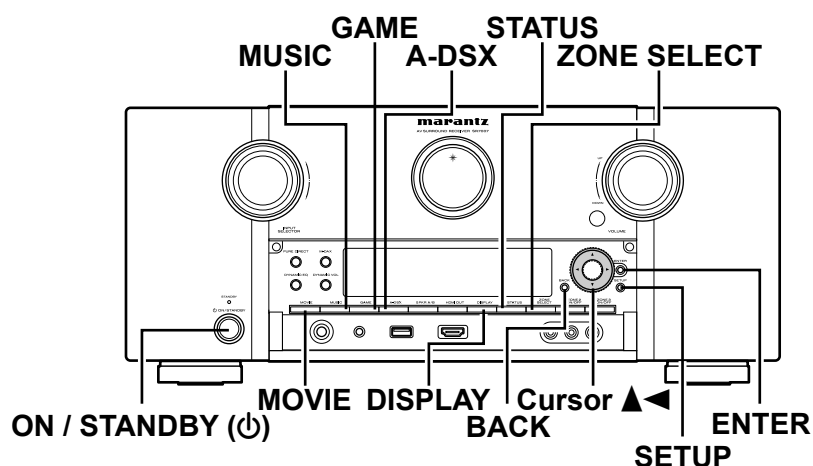
Please refer to "EXPLODED VIEW" for the disassembly method of each P.W.B included in TRANS MAIN.

SPECIAL MODE

Special mode setting button

- ※ No.1 - 5, 6, 7 : Press the "ON/STANDBY (⏻)" button to turn on the power while pressing both the buttons A and the button B at the same time.
- ※ No.8 - 10: Turn on the power, then press and hold down the A and B buttons for over 3 seconds.

No.	Mode	Button A	Button B	Contents
1	Version display (μcom/DSP Error Display)	STATUS	DISPLAY	Firmware versions such as Main or DSP are displayed in the FL Display. Errors are displayed when they occur. (Refer to 22 page)
2	User Initialization mode (Installer Setup settings are not initialized.)	GAME	A-DSX	Backup data initialization is carried out. (Installer Setup settings are not initialized.)
3	Factory Initialization mode (Installer Setup settings are also initialized.)	MOVIE	MUSIC	Backup data initialization is carried out. (Installer Setup settings are also initialized.)
4	PANEL/REMOTE LOCK Selection mode	BACK	ENTER	Selects to reject operations through panel buttons and the master volume knob on the main unit and operations via the remote control. (Refer to 26 page)
5	Service Related Selection mode	BACK	ZONE SELECT	Selects the "Diagnostic mode" or "Displaying the protection history mode". (Refer to 27 page)
6	Mode for switching tuner frequency step (N model Only)	Cursor ▲	SETUP	Change tuner frequency step to FM:50kHz/200kHz
7	Installer Setup mode	Cursor ◀	BACK	Access the Remote Maintenance mode via the internet. Installer Setup is displayed on GUI/Option Menu. ※ Refer to AVR_RemoteMaintenance_.pdf of SDI.
8	Memory Backup	ZONE SELECT	DISPLAY	Backup of DUAL BACKUP MEMORY is performed. (Refer to 28 page)
9	Memory Recovery	BACK	ZONE SELECT	Recovery of DUAL BACKUP MEMORY is performed. (Refer to 28 page)
10	Memory Backup Clear	ZONE SELECT	ENTER	Backup of DUAL BACKUP MEMORY is cleared. (Refer to 28 page)



1. μ com/DSP Version display mode

1.1. Operation specifications

μ com/DSP version display mode:

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

Starting up:

Press the "ON/STANDBY (⏻)" button to turn on the power while pressing the "STATUS" and "DISPLAY" buttons.

Now, press the "STATUS" button to 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/MAIN FBL(1st Boot Loader) Version → ④ Sub μ -com/Sub FBL → ⑤ DSP version → ⑥ Audio PLD
 → ⑦ GUI SFLASH → ⑧ Ethernet(DM860A) 1st Boot Loader, Hardware ID
 → ⑨ Ethernet(DM860A) 2nd Boot Loader → ⑩ Ethernet(DM860A) IMAGE
 → ⑪ Ethernet(DM860A)MAC ADDRESS information → ⑫ HD RADIO SDK/HD RADIO BBP(SR7007U1B only)
 → ⑬ MultEQ Pro APP(Displayed when Audyssey Pro is complete)
 → ⑭ MultEQ Pro ICL(Displayed when Audyssey Pro is complete)

① Model destination information :

Upper	S	R	7	0	0	7	U	:	*	*	*	*
Lower	S	/	N	.			*	*	*	*	*	*

② Firmware Package Version :

Upper		F	i	r	m	.		P	a	c	k	a	g	e		
Lower								V	e	r	.	:	*	*	*	*

③ Main μ -com & MAIN FBL version :

Upper		M	a	i	n				:	*	*	.	*	*	
Lower		M	a	i	n		F	B	L	:	*	*	.	*	*

④ Sub μ -com & Sub FBL :

Upper		S	u	b					:	*	*	.	*	*
Lower		S	u	b		F	B	L	:	*	*	.	*	*

⑤ DSP ROM :

Upper		D	S	P					:	*	*	.	*	*
Lower														

⑥ Audio PLD :

Upper		A	u	d	i	o		P	L	D	:	*	*	.	*	*
Lower																

⑦ GUI SFLASH :

Upper		G	U	I				:	*	*	*	*	*	*	*	*
Lower																

⑧ Ethernet(DM860A) 1st Boot Loader, Hardware ID :

Upper		E	t	h	e	r	n	e	t		F	B	L			
Lower	*	*	*	*	*	*	-	A	A							

⑨ Ethernet(DM860A) 2nd Boot Loader :

Upper		E	t	h	e	r	n	e	t		S	B	L			
Lower	*	*	*	*	*	*	*	*	*	*	*	*	*	-	B	B

⑩ Ethernet(DM860A) IMAGE :

Upper		E	t	h	e	r	n	e	t		I	M	G			
Lower	*	*	*	*	*	*	*	*	*	*	*	*	*			

⑪ Ethernet(DM860A)MAC ADDRESS information :

Upper	*	E	t	h	e	r	n	e	t		M	A	C			
Lower		*	*	*	*	*	*	-	*	*	*	*	*	*		

⑫ HD RADIO SDK/HD RADIO BBP (SR7007U1B only) :

Upper	*	H	D	S	D	K	:					*	*	.	*	*
Lower	*	H	D	B	B	P	:	*	*	*	*	*	*	.	*	*

⑬ MultEQ Pro APP :

Upper	*	M	u	l	t	E	Q		P	r	o		A	P	P	
Lower	*	*	.	*	*	.	*	*	.	*	*	*	*	*		

⑭ MultEQ Pro ICL :

Upper	*	M	u	l	t	E	Q		P	r	o		I	C	L	
Lower	*	*	.	*	*	.	*	*	.	*	*	*	*	*		

1.3. Error display

See the following table for each "Error information" display and its explanation (status).

Display order is ①,②,③,④,⑤,⑥,⑦,⑧.

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. (※1)	F I R M E R R O R	• Please check the destination-resistors (R2060/R2061, HDMI B'D). • Please write the firmware of correct destination.
② GUI Version NG	Error occurs in GUI version and Main μ-com version.(※2)	G U I V E R . E R R O R	• Please check the firmware of correct version.
③ SUB NG	No response from SUB microcomputer.	S U B E R R O R 0 1	• Please check SUB (IC231) and around circuits.
④ DIR NG	No response from DIR	D I R E R R O R 0 1	• Please check DIR (IC403, HDMI B'D) and around circuits.
⑤ DSP NG	When DSP code boot is performed, the DSP FLAG0 port does not change to "H" even if DSP reset is executed.	D S P E R R O R 0 1	• Please check DSP (IC408, HDMI B'D) and around circuits.
	Before DSP command is issued, the DSP BUSY port does not change to "L".	D S P E R R O R 0 2	
	When DSP data read is performed, executing WRITE="L" does not result in ACK="H".	D S P E R R O R 0 3	
	When DSP data read is performed, executing REQ="L" does not result in ACK="L".	D S P E R R O R 0 4	
	When DSP data writing is performed, executing WRITE="H" does not result in ACK="H".	D S P E R R O R 0 5	
	When DSP data writing is performed, executing REQ="L" does not result in ACK="L".	D S P E R R O R 0 6	
⑥ IP SCALER NG	An error has occurred in the i/p Scaler (ADV8003)initial settings. The error is a DDR memory Loopback Test error.	I P S C A L E R E R R 0 1	• Please check ADV8003 (IC151) and around circuits.
	Testing writing data between IP SCALER and DRR resulted in no response.	I P S C A L E R E R R 0 2	
⑦ E2PROM NG	Error occurs in E2PROM checksum.(*** is a block address number.)	E 2 P R O M E R R * * *	
⑧ Both DSP / EEPROM OK		(No error display, version display only)	

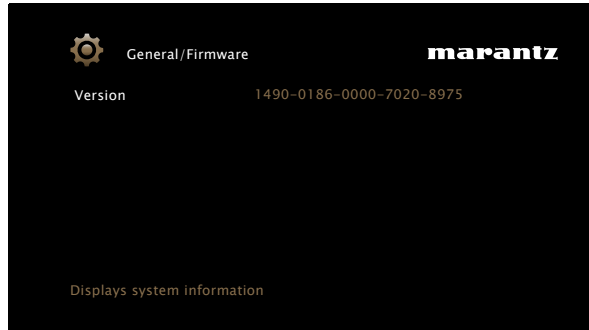
Status	FL Display
※1, ※2 The written Firmware and product settings (model name, brand name, destination) are compared. If Firmware that is not designed for this product is written, ▲ is displayed in the first column, as shown on the right.	▲ M a i n : * * . * *
	▲ S U B : * * . * *
	▲ D S P : * * . * *
	▲ A u d i o P L D : * * . * *
	▲ G U I : * * * * * * * *

1.4. Version display on the Setup Menu

Use the following procedure to display the firmware version.

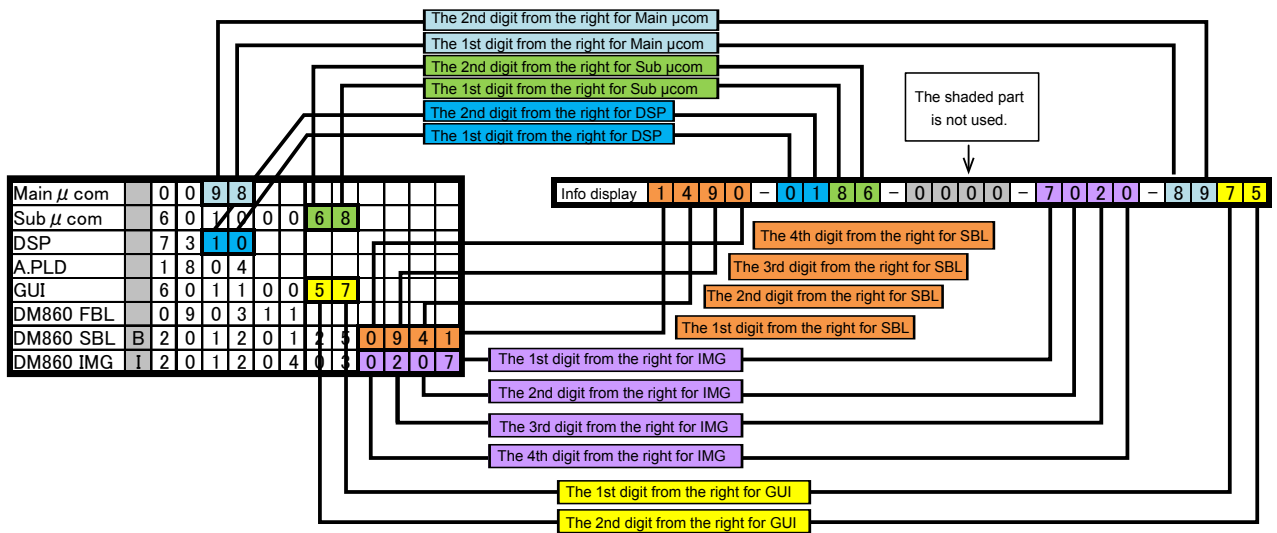
- (1) Press the "SETUP" button on the remote control.
- (2) Select "General-Information-Firmware".

A version with 20 digits is displayed as shown in the following image.



GUI Image

The displayed 20 digits are derived from each device version as shown below.



- ※ This firmware version No. (xxxx-xxxx-xxxx-xxxx) is included in the service contact document.
These 20 digits are also included in the document.

2. PANEL/REMOTE LOCK Selection mode

2.1. Behavior specifications

In this mode, you can switch between the PANEL LOCK MODE and the Mode for preventing remote control acceptance.

2.2. Starting up

Press the "ON/STANDBY (⏻)" button to turn on power while pressing the "BACK" and "ENTER" buttons.

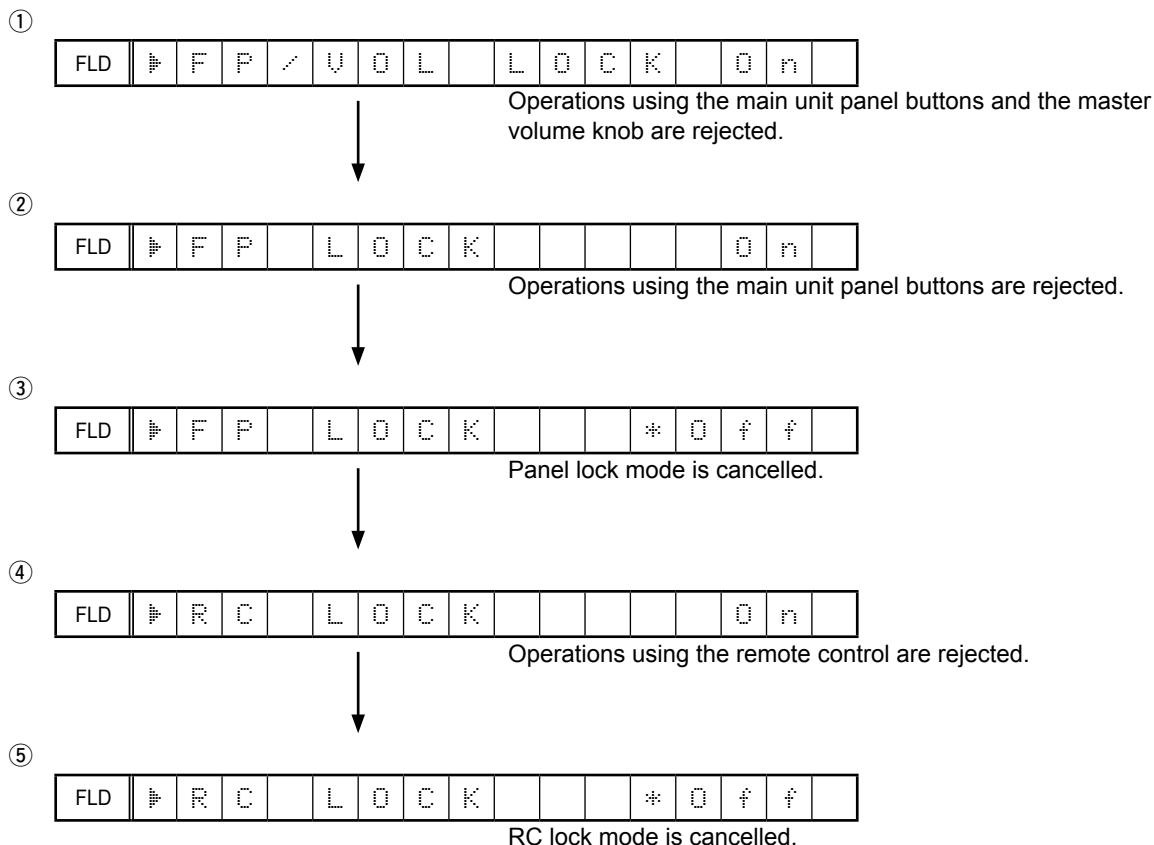
Press the "Cursor ▲/▼" button to select the mode and the "ENTER" button to confirm the selection.

2.3. Mode selection method and how each mode is displayed

Each time you press the "Cursor ▲/▼" button, the mode displayed on the FL DISPLAY changes.

While the desired mode name is displayed on the FL DISPLAY, press the "ENTER" button. The set is restarted and the selected mode takes effect.

The currently set item is marked with " * ".



3. Service Related Selection mode

3.1. Behavior specifications

In this mode, you can switch between the Diagnostic mode (SERVICE CHECK), the Displaying the protection mode (PROTECTION) and the 232C clear mode (RS232C RESET).

3.2. Starting up

Press the "ON/STANDBY (⏻)" button to turn on power while pressing the "ZONE SELECT" and "BACK" buttons.
Press the "Cursor ▲/▼" button to select the mode and press the "ENTER" button to restart the set and make the setting take effect.

①

FLD	▶	1	.	S	E	R	V	I	C	E		C	H	E	C	K
-----	---	---	---	---	---	---	---	---	---	---	--	---	---	---	---	---



This mode is used for confirming the Video and Audio (signal) paths. (Diagnostic mode)
The signal paths of the set can be easily confirmed after repair.

②

FLD	▶	2	.	P	R	O	T	E	C	T	I	O	N			
-----	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	--



The protection history can be checked.

③

FLD	▶	3	.	R	S	2	3	2	C		R	E	S	E	T	
-----	---	---	---	---	---	---	---	---	---	--	---	---	---	---	---	--

The 232C standby mode is changed to the Normal standby mode.

3.3. Canceling diagnostic mode

Turn off the power by pressing the "ON/STANDBY (⏻)" button.

4. DUAL BACKUP MEMORY

This product has a Dual Backup Memory function. The conventional Backup functions to memorize, in the EEPROM (IC202) in the circuit, a current setting of the moment the main power is turned off so that it can be restored when it is turned ON again. Meanwhile, the DUAL BACKUP MEMORY is capable of memorizing any arbitrary setting that is configured while the product is in operation so as to restore it at any time. When servicing units returned from end-users for repairs, use this function to back up the current setting (e.g. Tuner Preset). This will enable the units to be returned to the users after repairs, with the setting unchanged.

NOTE: If end-users use this function, the data will be overwritten.

The contents of the memory do not disappear even if you initialize this unit.

If you want to erase, please refer to **4.2. SERVICE PRECAUTIONS**.

4.1. HOW TO OPERATE

-Backup-

- (1) Configure a setting you would like to save in the MEMORY and hold down the "ZONE SELECT" and "DISPLAY" buttons on the Front Panel at the same time for 3 seconds or more.
- (2) The FL Display indicates "MEMORY SAVING" while the Recovery is being performed.

FLD	M	E	M	O	R	Y		S	A	V	I	N	G				
-----	---	---	---	---	---	---	--	---	---	---	---	---	---	--	--	--	--

- (3) The FL Display indicates "COMPLETE" when the Backup is completed.

FLD	C	O	M	P	L	E	T	E									
-----	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--

-Recovery-

- (1) Hold down the "BACK" and "ZONE SELECT" buttons at the same time for 3 seconds or more.
- (2) The FL Display indicates "MEMORY LOAD" while the Backup is being performed.

FLD	M	E	M	O	R	Y		L	O	A	D						
-----	---	---	---	---	---	---	--	---	---	---	---	--	--	--	--	--	--

- (3) After the FL Display indicates "COMPLETE", the product goes into Standby mode. When the power is restored, the Recovery is completed.

FLD	C	O	M	P	L	E	T	E									
-----	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--

The FL Display indicates "NO BACKUP" if the DUAL BACKUP MEMORY has not been activated with no data to be recovered saved in the Memory.

FLD	N	O		B	A	C	K	U	P								
-----	---	---	--	---	---	---	---	---	---	--	--	--	--	--	--	--	--

4.2. SERVICE PRECAUTIONS

When the Flash Rom (IC202) on the HDMI PWB is replaced make sure, in order to maintain consistency with the Backup Memory, to clear the DUAL BACKUP MEMORY in the following way :

-How to clear the Backup Memory-

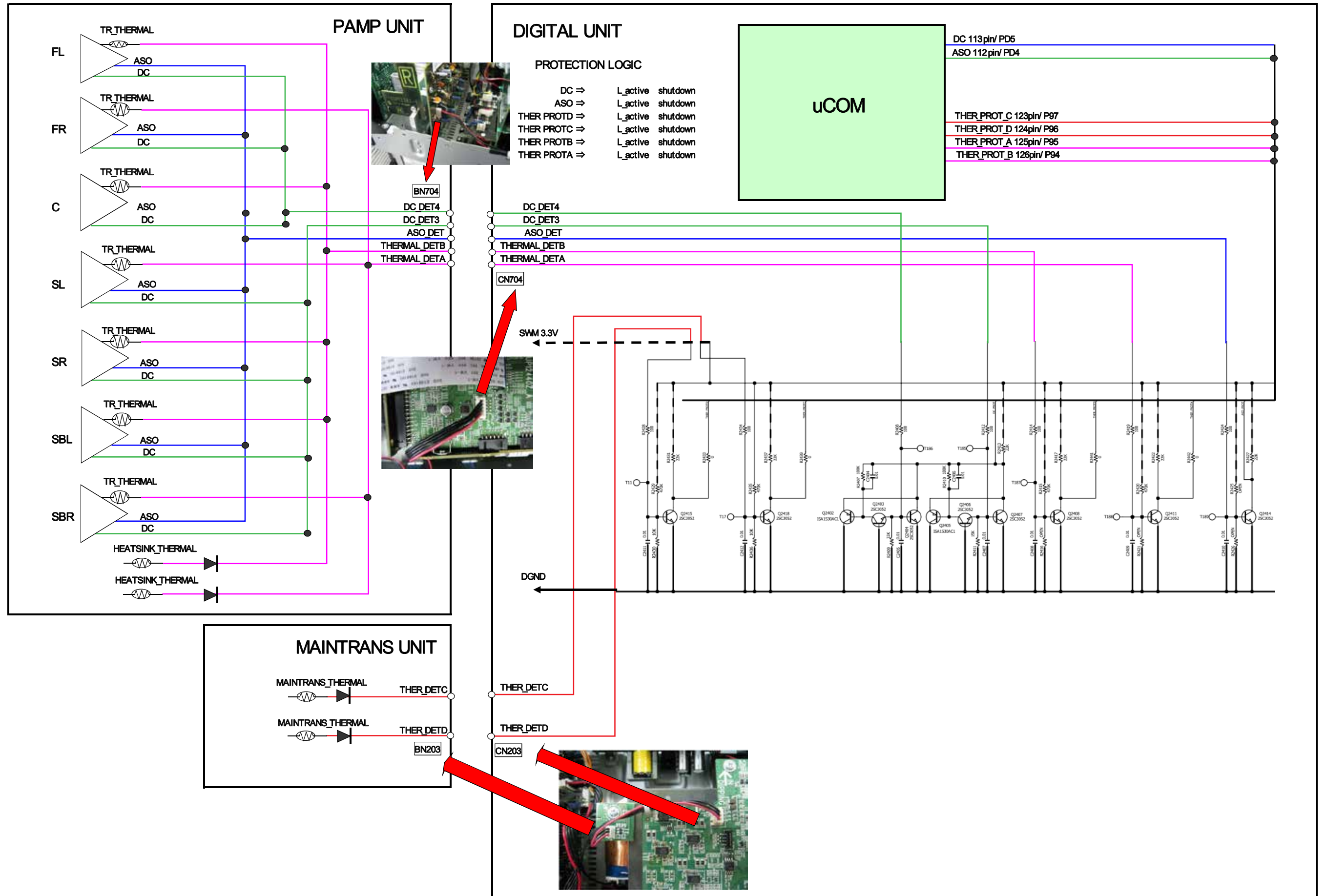
- (1) Hold down the "ZONE SELECT" and "ENTER" buttons at the same time for 3 seconds or more.
- (2) The FL Display indicates "BACKUP CLEAR" while the memory is being cleared.

FLD	B	A	C	K	U	P		C	L	E	A	R					
-----	---	---	---	---	---	---	--	---	---	---	---	---	--	--	--	--	--

- (3) After the FL Display indicates "COMPLETE", the operation is completed.

FLD	C	O	M	P	L	E	T	E									
-----	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--

PROTECTION DIAGRAM



5. 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.

5.1. Starting diagnostic mode

Press the "ZONE SELECT" and "BACK" button while simultaneously pressing those two buttons of this unit.
TUNED, STEREO and RDS are lit in FL display.

5.2. Canceling diagnostic mode

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

5.3. Operation

Use the remote control (RC014SR) that is supplied with the SRxx06 model. Press buttons on the remote control in the order indicated in the “Details of how to operate remote control”^{a)} column in the following table to establish the confirmation path.
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 the table below.

5.4. 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	Video Convert (IP Scaler) : OFF , All Sources All ZONE : ON Main Display: U D V D 0 1 Sub Display: U 0 1	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·Input : CVBS / Output : CVBS ·Input : CVBS / Output : CVBS RECOUT (MEDIA PLAYER) ·Input : CVBS / Output : CVBS ZONE2 ·Input : Component / Output : Component ·Input : Component / Output : Component ZONE2 ·input ETHERNET (CVBS) / Output :CVBS (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [Z3] 5.Press [STANDBY]	②ZONE3 POWER OFF		
			6.Press [AMP] 7.Press [1/AUTO]	③KEY1/AUTO (Main Zone) (Initialization & Video Convert All OFF)		
			8.Press [Z2] 9.Press [POWER ON]	④ZONE2 POWER ON		
			10.Press [Z3] 11.Press [POWER ON]	⑤ZONE3 POWER ON		
			12.Press [AMP] 13.Press [DVD] twice	⑥DVD (Main Zone)		
2	HDMI (signal) Path (Main Zone)	Video Convert(IP Scaler) : OFF, All Sources All ZONE:ON Main Display: U D V D 0 1 Sub Display: U 0 1	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·Input : HDMI / Output : HDMI (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [Z3] 5.Press [STANDBY]	②ZONE3 POWER OFF		
			6.Press [AMP] 7.Press [1/AUTO]	③KEY1/AUTO (Main Zone) (Initialization & Video Convert All OFF)		
			8.Press [Z2] 9.Press [POWER ON]	④ZONE2 POWER ON		
			10.Press [Z3] 11.Press [POWER ON]	⑤ZONE3 POWER ON		
			12.Press [AMP] 13.Press [DVD] twice	⑥DVD (Main Zone)		
3	Analog or HDMI to HDMI (signal) Path	Video Convert(IP Scaler) : ON, All Sources IP Scaler : Analog & HDMI , All Sources Resolution : "AUTO", All Sources Main Display: U D V D 0 2 Sub Display: U 0 2	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·Input CVBS / Through : IP Scaler / Output : HDMI ·Input Component / Through : IP Scaler / Output : HDMI ·Input HDMI / Through : IP Scaler / Output : HDMI ·Input ETHERNET (S) / Through : IP Scaler / Output : HDMI (※ As the input source, you can switch from DVD to other ones.)	Confirm the input pass one by one. Because it becomes only the input of the highest input becomes Convert/IP Scaler (signal) Path if it inputs it at the same time. (HDMI input > Component input > CVBS input)
			4.Press [Z3] 5.Press [STANDBY]	②ZONE3 POWER OFF		
			6.Press [AMP] 7.Press [2/STEREO]	③KEY2/STEREO (Main Zone) (Initialization & Video Convert All ON & IP Scaler "Analog & HDMI")		
			8.Press [AMP] 9.Press [DVD] twice	④DVD (Main Zone)		

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
4	OSD FUNCTION	Video Convert(IP Scaler) : ON, All Sources IP Scaler : Analog & HDMI , All Sources Resolution : "AUTO", All Sources Menu : ON All ZONE :ON Main Display: V D V D 0 2 Sub Display: V 0 2	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·OSD Display / Output : HDMI (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [Z3] 5.Press [STANDBY]	②ZONE3 POWER OFF		
			6.Press [AMP] 7.Press [2/STEREO]	③KEY2/STEREO (Main Zone) (Initialization & Video Convert All ON & IP Scaler "Analog & HDMI")		
			8.Press [Z2] 9.Press [POWER ON] 10.Press [Z3] 11.Press [POWER ON] 12.Press [AMP] 13.Press [DVD] twice 14.Press [MENU]	④ZONE2 POWER ON ⑤ZONE3 POWER ON ⑥DVD (Main Zone) ⑦GUI MENU (Main Zone)		
5	CEC FUNCTION (Control Monitor : HDMI Monitor1)	HDMI Control : ON Control Monitor Monitor1 (When checking the HDMI Monitor Out1) Main Display: V D V D 0 3 Sub Display: V 0 3	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·When the power supply of a TV is put in the standby mode, make sure that the power supply of this unit is also put in the standby mode. (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [Z3] 5.Press [STANDBY]	②ZONE3 POWER OFF		
			6.Press [AMP] 7.Press [3/M-DAX]	③KEY3/M-DAX (Main Zone) (Initialization & CEC Control ON & Select Control Monitor 1)		
			8.Press [DVD] twice	④DVD (Main Zone)		
6	CEC FUNCTION (Control Monitor : HDMI Monitor 2)	HDMI Control : ON Control Monitor Monitor 2 (When checking the HDMI Monitor Out 2) Main Display: V D V D 0 4 Sub Display: V 0 4	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	When the power supply of a TV is put in the standby mode, make sure that the power supply of this unit is also put in the standby mode. (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [Z3] 5.Press [STANDBY]	②ZONE3 POWER OFF		
			6.Press [AMP] 7.Press [4/DYN VOL]	③KEY4/DYN VOL (Main Zone) (Initialization & CEC Control ON & Select Control Monitor 2)		
			8.Press [DVD] twice	④DVD (Main Zone)		
7	HDMI Audio (signal) Path (Audio : AMP)	Audio : AMP(When checking the audio output from AMP) Main Display: V D V D 0 5 Sub Display: V 0 5	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·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 [Z3] 5.Press [STANDBY]	②ZONE3 POWER OFF		
			6.Press [AMP] 7.Press [5/HT-EQ]	③KEY5/HT-EQ VOL (Main Zone) (Initialization & Select Audio AMP)		
			8.Press [DVD] twice	④DVD (Main Zone)		
8	HDMI Audio (signal) Path (Audio : TV)	Audio : TV(When checking the audio output from TV) Main Display: V D V D 0 6 Sub Display: V 0 6	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·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 [Z3] 5.Press [STANDBY]	②ZONE3 POWER OFF		
			6.Press [AMP] 7.Press [6/V.SEL]	③KEY6/V.SEL(Main Zone) (Initialization & Select Audio TV)		
			8.Press [DVD] twice	④DVD (Main Zone)		

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
9	HDMI (signal) Path (ZONE2)	Video Convert(IP Scaler) : OFF, All Sources All ZONE:ON Main Display: U D V D 0 1 Sub Display: U 0 1	1.Press [AMP]	①ZONE2 POWER OFF	·Input : HDMI (ZONE2 Function) / Output : HDMI (ZONE2) (※ As the input source, you can switch from DVD to other ones.)	
			2.Press [Z2]			
			3.Press [STANDBY]			
			4.Press [Z3]	②ZONE3 POWER OFF		
			5.Press [STANDBY]			
			6.Press [AMP]	③KEY1/AUTO (Main Zone) (Initialization & Video Convert All OFF)		
			7.Press [1/AUTO]			
			8.Press [Z2]	④ZONE2 POWER ON		
			9.Press [POWER ON]			
			10.Press [DVD] twice	⑤DVD (Main Zone)		
			11.Press [AMP]	⑥Select remote control "ZONE2"		
			12.Press [Z2]			
			13.Press [DVD] twice	⑦DVD (Zone2)		

fig.9

5.5. 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	Input Mode : Fixed ANALOG SURROUND mode : DIRECT Amp assign : NORMAL Main Display: A D V D 0 1 Sub Display: A 0 1	1.Press [AMP]	①ZONE2 POWER OFF	·Input : Analog / Output : Speakers (Front L/R) ·Input : Analog / Output : Pre OUT(Front L/R) (※ As the input source, you can switch from DVD to other ones.)	
			2.Press [Z2]			
			3.Press [STANDBY]			
			4.Press [Z3]	②ZONE3 POWER OFF		
			5.Press [STANDBY]			
			6.Press [AMP]	③KEY7/T.TONE (Main Zone) (Initialization & Amp assign NORMAL& Input Mode Fixed ANALOG & SURROUND mode DIRECT)		
			7.Press [7/T.TONE]			
			8.Press [DVD] twice	④DVD (Main Zone)		
2	DIGITAL (signal) Path (MAIN)	Input Mode : Fixed DIGITAL Amp assign : NORMAL Main Display: A D V D 0 2 Sub Display: A 0 2	1.Press [AMP]	①ZONE2 POWER OFF	·Input : Digital / Output : Speakers (Front L/R) ·Input : Digital / Output : Pre OUT(Front L/R) (※ As the input source, you can switch from DVD to other ones.)	
			2.Press [Z2]			
			3.Press [STANDBY]			
			4.Press [Z3]	②ZONE3 POWER OFF		
			5.Press [STANDBY]			
			6.Press [AMP]	③KEY8/CH LVL (Main Zone) (Initialization & Amp assign NORMAL& Input Mode Fixed DIGITAL)		
			7.Press [8/CH LVL]			
			8.Press [DVD] twice	④DVD (Main Zone)		
3	HDMI (signal) Path	Input Mode : Fixed HDMI Amp assign : NORMAL Main Display: A D V D 0 5 Sub Display: A 0 5	1.Press [AMP]	①ZONE2 POWER OFF	·Input : HDMI / Output : Speakers (Front L/R) ·Input : HDMI / Output : Pre OUT(Front L/R) (※ As the input source, you can switch from DVD to other ones.)	
			2.Press [Z2]			
			3.Press [STANDBY]			
			4.Press [Z3]	②ZONE3 POWER OFF		
			5.Press [STANDBY]			
			6.Press [AMP]	③SURROUND (Initialization & Amp assign NORMAL & Input Mode Fixed HDMI)		
			7.Press [SURROUND]			
			8.Press [DVD] twice	④DVD (Main Zone)		
4	A/D (signal) Path (Main Zone)	Amp assign : NORMAL SURROUND mode : Multi ch STEREO Vol -20dB Speaker Config : SSSSY (Front/Center/Surround/SourroundBack : Small, SW : Yes) Main Display: A D V D 0 6 Sub Display: A 0 6	1.Press [AMP]	①ZONE2 POWER OFF	·Input : Analog / Output : Speakers (Front L/R) ·Input : Analog / Output : Pre OUT(Front L/R), SW(20Hz) (※ As the input source, you can switch from DVD to other ones.)	
			2.Press [Z2]			
			3.Press [STANDBY]			
			4.Press [Z3]	②ZONE3 POWER OFF		
			5.Press [STANDBY]			
			6.Press [AMP]	③PURE DIRECT (Initialization & Amp assign NORMAL & SURROUND mode : Multi ch STEREO & ZONE2 Volume -20dB)		
			7.Press [PURE DIRECT]			
			8.Press [DVD] twice	④DVD (Main Zone)		

fig.13

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
5	Amp Assign (signal) Path (Amp Assign : ZONE2)	Amp assign : ZONE2 ZONE2 Function : Source Zone2 Vol -20dB Main Display: A D V D 0 7 Sub Display: A 0 7	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·Input : Analog / Output : Speakers (SURR BACK L/R) ·Input : Analog / Output : Pre OUT (ZONE2 L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [Z3] 5.Press [STANDBY]	②ZONE3 POWER OFF		
			6.Press [AMP] 7.Press [P2]	③P2 (Initialization & Amp assign ZONE2 & SURROUND mode : Multi ch STEREO & ZONE2 Volume -20dB)		
			8.Press [Z2] 9.Press [POWER ON]	④ZONE2 POWER ON		
			10.Press [AMP] 11.Press [DVD] twice	⑤DVD (Main Zone)		
6	Amp Assign (signal) Path (Amp Assign : ZONE3)	Amp assign : ZONE3 SURROUND mode : Multi ch STEREO Zone3 Vol -20dB Main Display: A D V D 0 8 Sub Display: A 0 8	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·Input : Analog / Output : Speakers (SURR BACK L/R) ·Input : Analog / Output : Pre OUT (ZONE3 L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [Z3] 5.Press [STANDBY]	②ZONE3 POWER OFF		
			6.Press [AMP] 7.Press [P3]	③P3 (Initialization & Amp assign ZONE3 & SURROUND mode : Multi ch STEREO & ZONE3 Volume -20dB)		
			8.Press [Z3] 9.Press [POWER ON]	④ZONE3 POWER ON		
			10.Press [AMP] 11.Press [DVD] twice	⑤DVD (Main Zone)		
7	Amp Assign (signal) Path (Amp Assign : BiAMP)	Amp assign : BiAMP SURROUND mode : Multi ch STEREO Vol -20dB Main Display: A D V D 0 1 1 Sub Display: A 0 1 1	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·Input : Analog / Output : Speakers (SURR BACK L/R) ·Input : Analog / Output : Pre OUT (SB L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [Z3] 5.Press [STANDBY]	②ZONE3 POWER OFF		
			6.Press [AMP], Select "MAIN" 7.Press [DISPLAY]	③DISPLAY (Initialization & Amp assign SPKR-C & SURROUND mode : Multi ch STEREO & Volume -20dB)		
			8.Press [DVD] twice	④DVD (Main Zone)		
8	Amp Assign (signal) Path (Amp Assign : Front-B)	Amp assign : Front-B SURROUND mode : Multi ch STEREO Vol -20dB Main Display: A D V D 0 1 2 Sub Display: A 0 1 2	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·Input : Analog / Output : Speakers (SURR BACK L/R) ·Input : Analog / Output : Pre OUT (SB L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [Z3] 5.Press [STANDBY]	②ZONE3 POWER OFF		
			6.Press [AMP] 7.Press [SHIFT/TOP MENU]	③SHIFT/TOP MENU (Initialization & Amp assign Front B & SURROUND mode : Multi ch STEREO & Volume -20dB)		
			8.Press [DVD] twice	④DVD (Main Zone)		
8	Front Height (signal) Path	Amp assign : Front Height SURROUND mode : Multi ch STEREO Vol -20dB Surround Parameter-Speaker : F.Height Main Display: A D V D 0 1 4 Sub Display: A 0 1 4	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·Input : Analog / Output : Speakers (F.HEIGHT L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [Z3] 5.Press [STANDBY]	②ZONE3 POWER OFF		
			6.Press [AMP] 7.Press [+10/SLEEP]	③+10/SLEEP (Main Zone) (Initialization & Amp assign NORMAL & SURROUND mode : Multi ch STEREO & Volume -20dB & Surround Parameter Speaker F.HEIGHT)		
			8.Press [DVD] twice	④DVD (Main Zone)		
10	Front Wide (signal) Path	Amp assign : NORMAL SURROUND mode : Multi ch STEREO Vol -20dB Surround Parameter-Speaker : F.Wide Main Display: A D V D 0 1 5 Sub Display: A 0 1 5	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·Input : Analog / Output : Speakers (F.WIDE L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [Z3] 5.Press [STANDBY]	②ZONE3 POWER OFF		
			6.Press [AMP] 7.Press [SEARCH/INFO]	③SEARCH/INFO (Initialization & Amp assign NORMAL & SURROUND mode : Multi ch STEREO & Volume -20dB & Surround Parameter Speaker F.WIDE)		
			8.Press [DVD] twice	④DVD (Main Zone)		

This image shows a full page of blank white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, providing a guide for writing. There are no margins, text, or other markings on the paper.

[illegible]

6. Errors checking mode (Displaying the protection history)

6.1. Operation specifications

Error mode (Displaying the protection history):

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

6.2. 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)

Upper	P	R	O	T	E	C	T		H	I	S	T	O	R	Y	
Lower	:	N	O		P	R	O	T	E	C	T					

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

Upper	P	R	O	T	E	C	T		H	I	S	T	O	R	Y	
Lower	:	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 5 seconds later and the power supply will be shut off.

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

Upper	P	R	O	T	E	C	T		H	I	S	T	O	R	Y	
Lower	:	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 5 seconds later and the power supply will be shut off.

(4) For THERMAL (when the last protection incident was THERMAL protection)

Upper	P	R	O	T	E	C	T		H	I	S	T	O	R	Y	
Lower	:	T	H	E	R	M	A	L		*						

*: A~D

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 5 seconds 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.(Refer to "PROTECTION DIAGRAM" 29 page.)

6.3. 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 "ENTER" button for 3 seconds.

Upper	P	R	O	T	E	C	T		H	I	S	T	O	R	Y	
Lower	=	T	H	E	R	M	A	L		A						



Press the "INTERNET RADIO" button for 3 seconds.

Upper	P	R	O	T	E	C	T		H	I	S	T	O	R	Y	
Lower						C	L	E	A	R						



The above is displayed and the protection history is cleared.

Upper	P	R	O	T	E	C	T		H	I	S	T	O	R	Y	
Lower	=	N	O		P	R	O	T	E	C	T					

- (2) Initialize. (Refer to "Initializing INTEGRATED NETWORK AV RECEIVER" 29 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/C/D) PROTECTION : Flashes at intervals of 2 seconds (1 second lit, 1 second off)

BLOCK DIAGRAM

fig.1

ANALOG VIDEO BLOCK

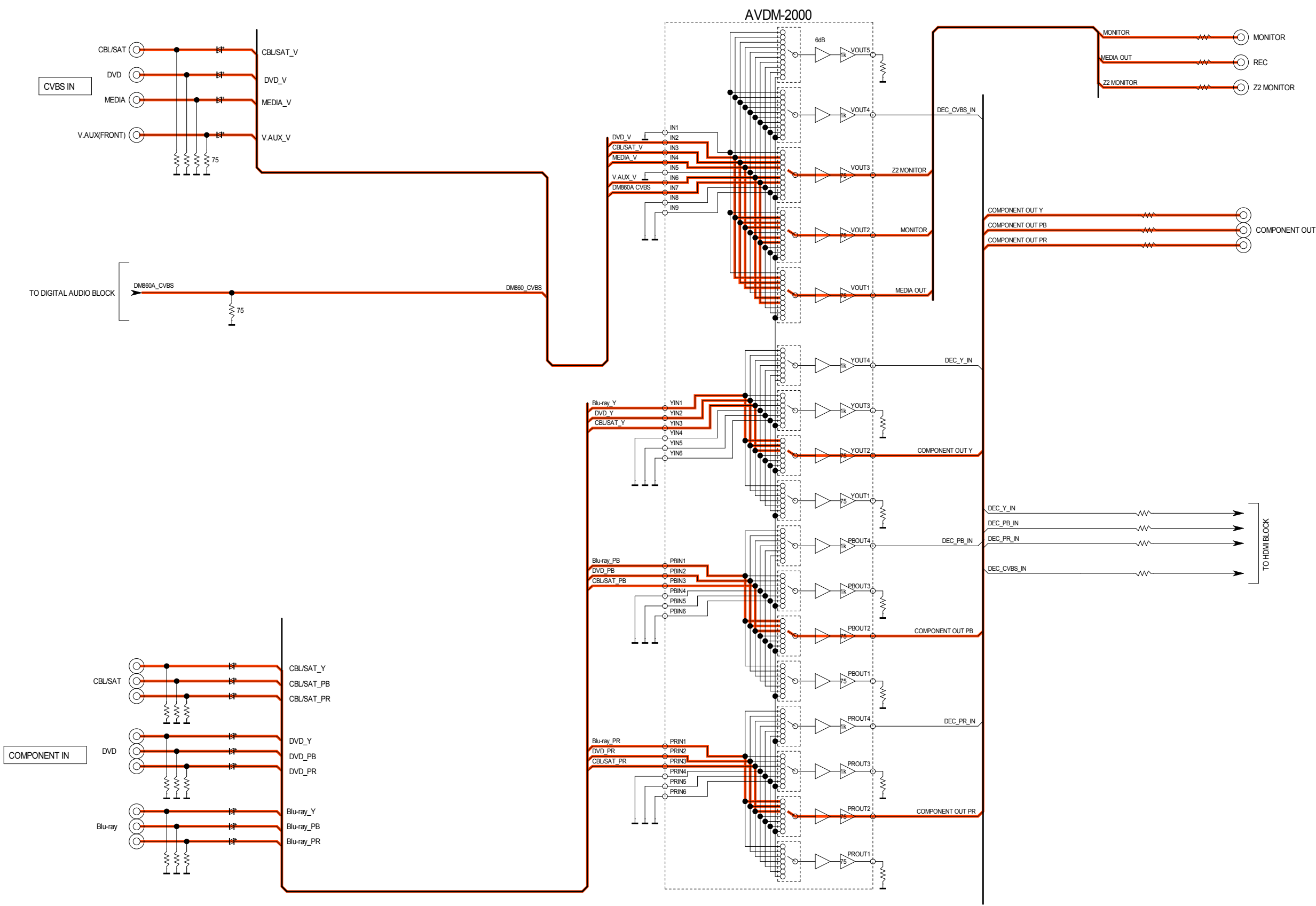


fig.2

HDMI VIDEO BLOCK

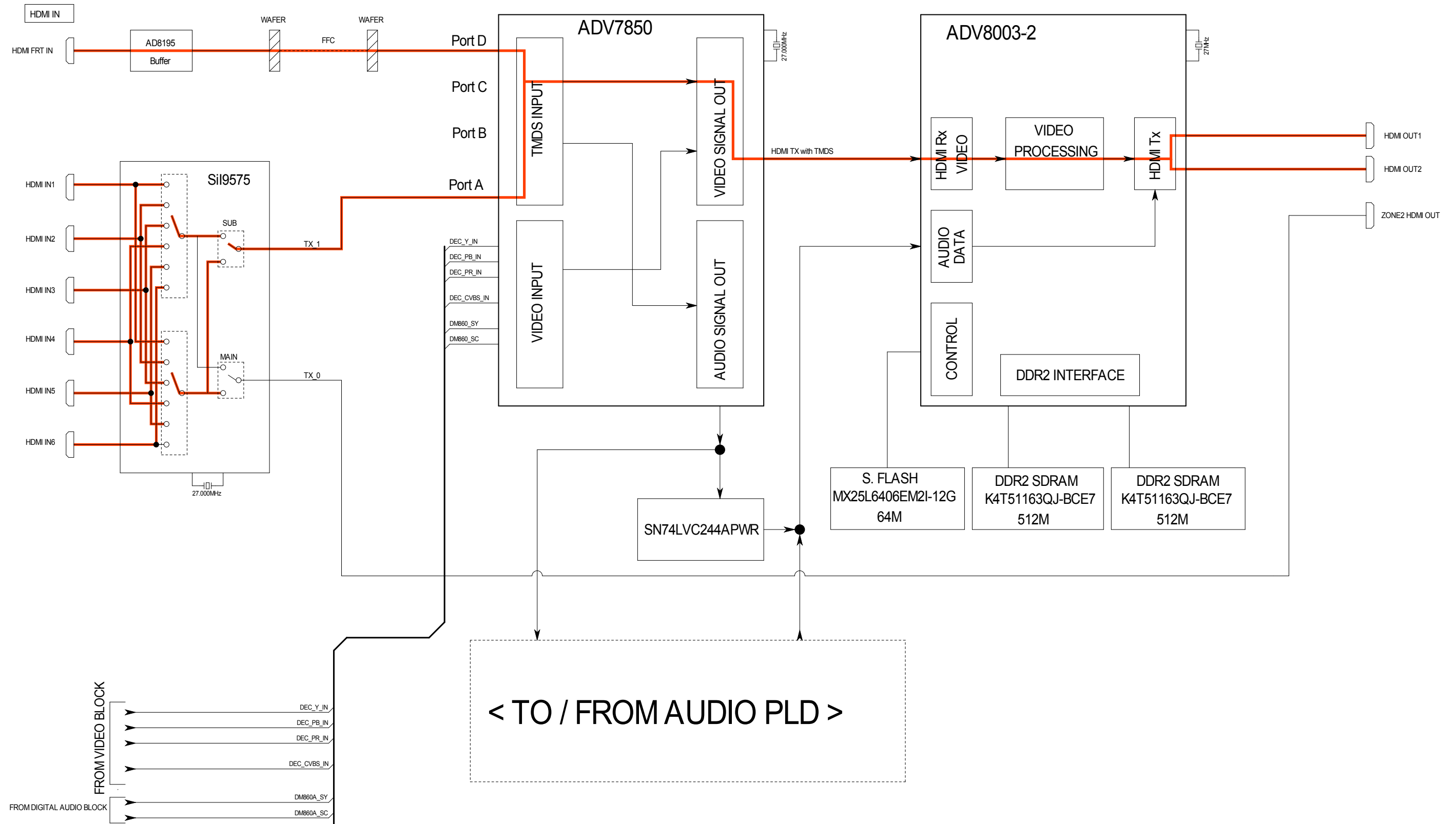


fig.3a

ANALOG VIDEO BLOCK

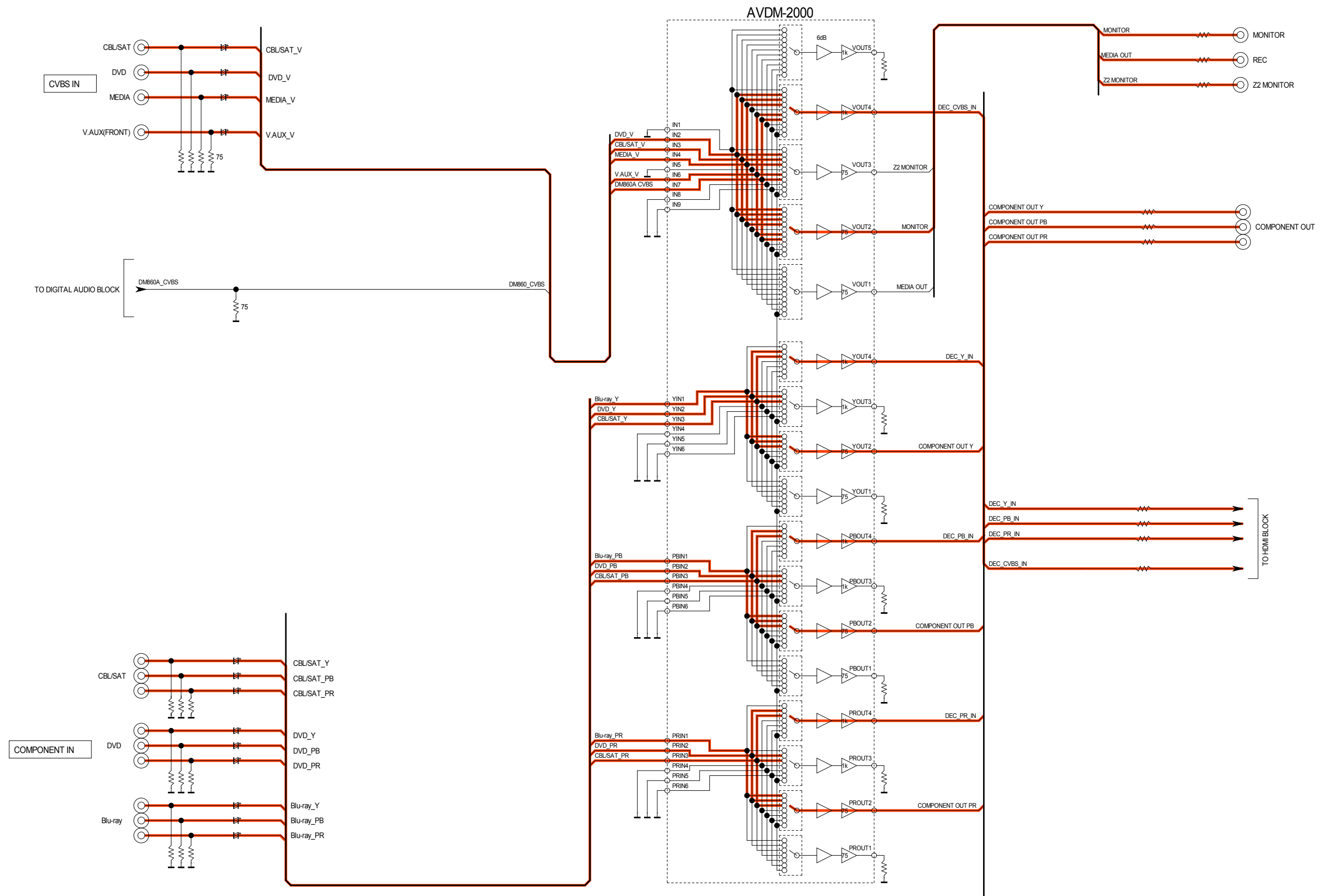


fig.3b

HDMI VIDEO BLOCK

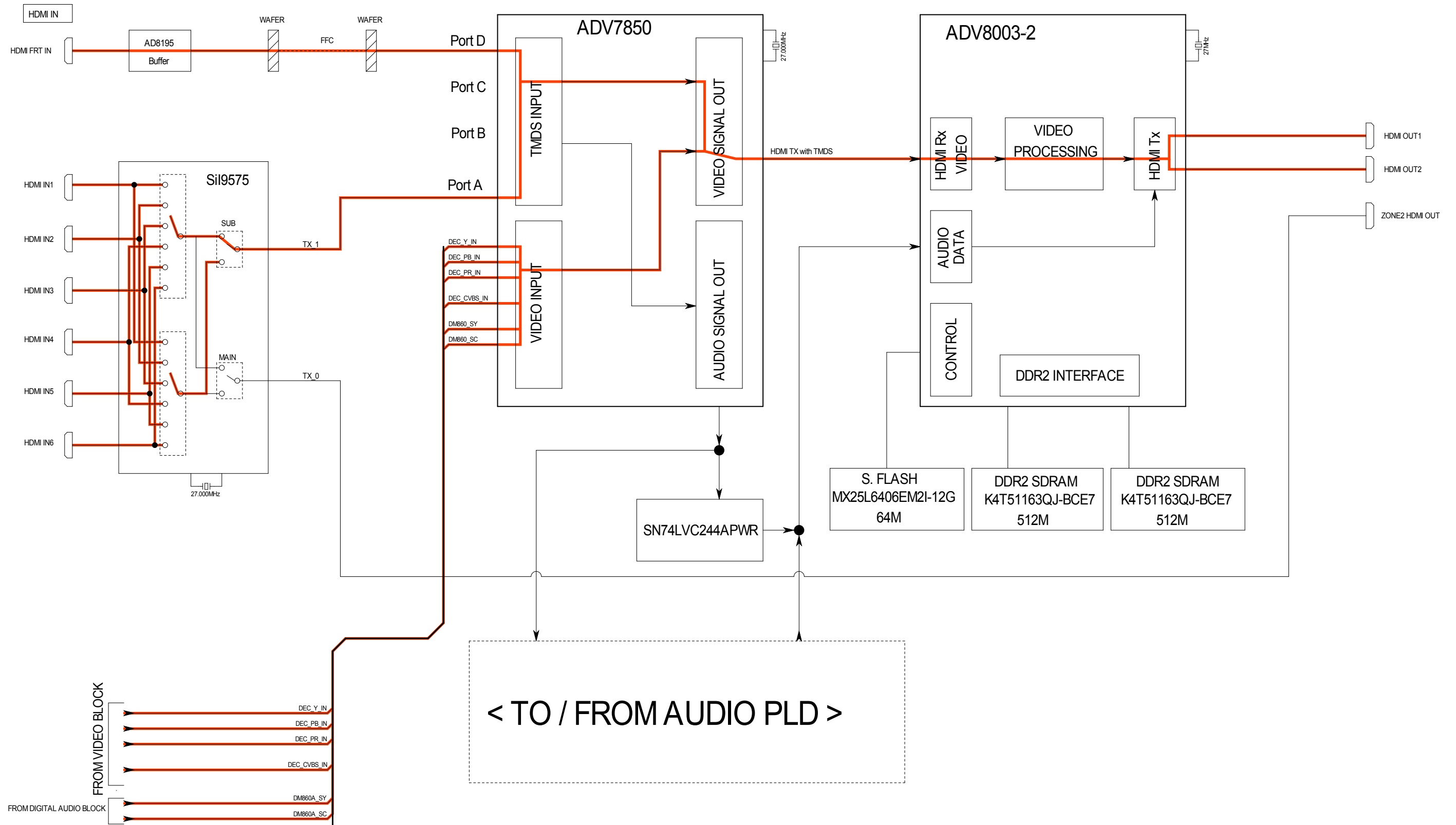


fig.4

HDMI VIDEO BLOCK

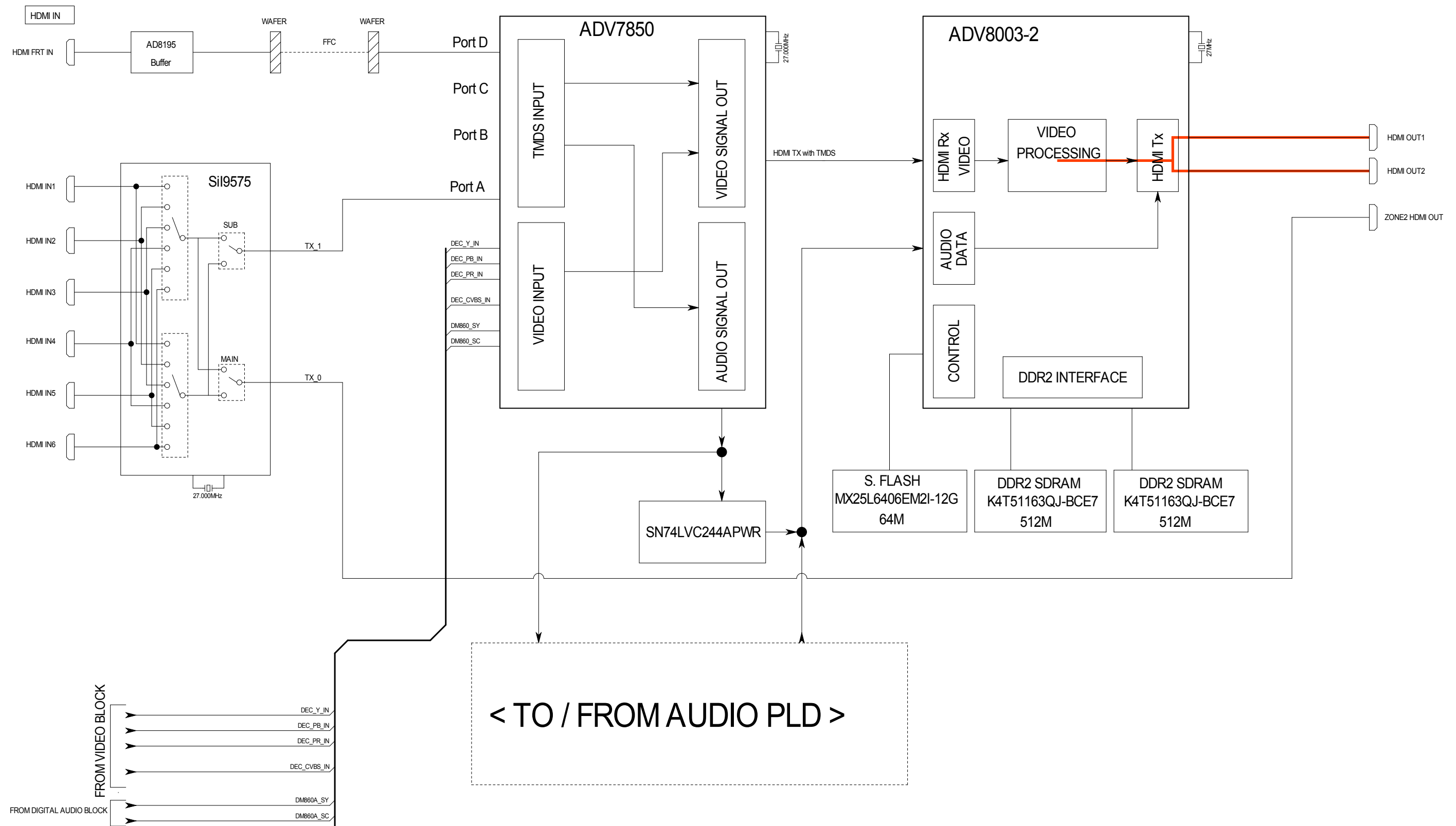


fig.5

HDMI VIDEO BLOCK

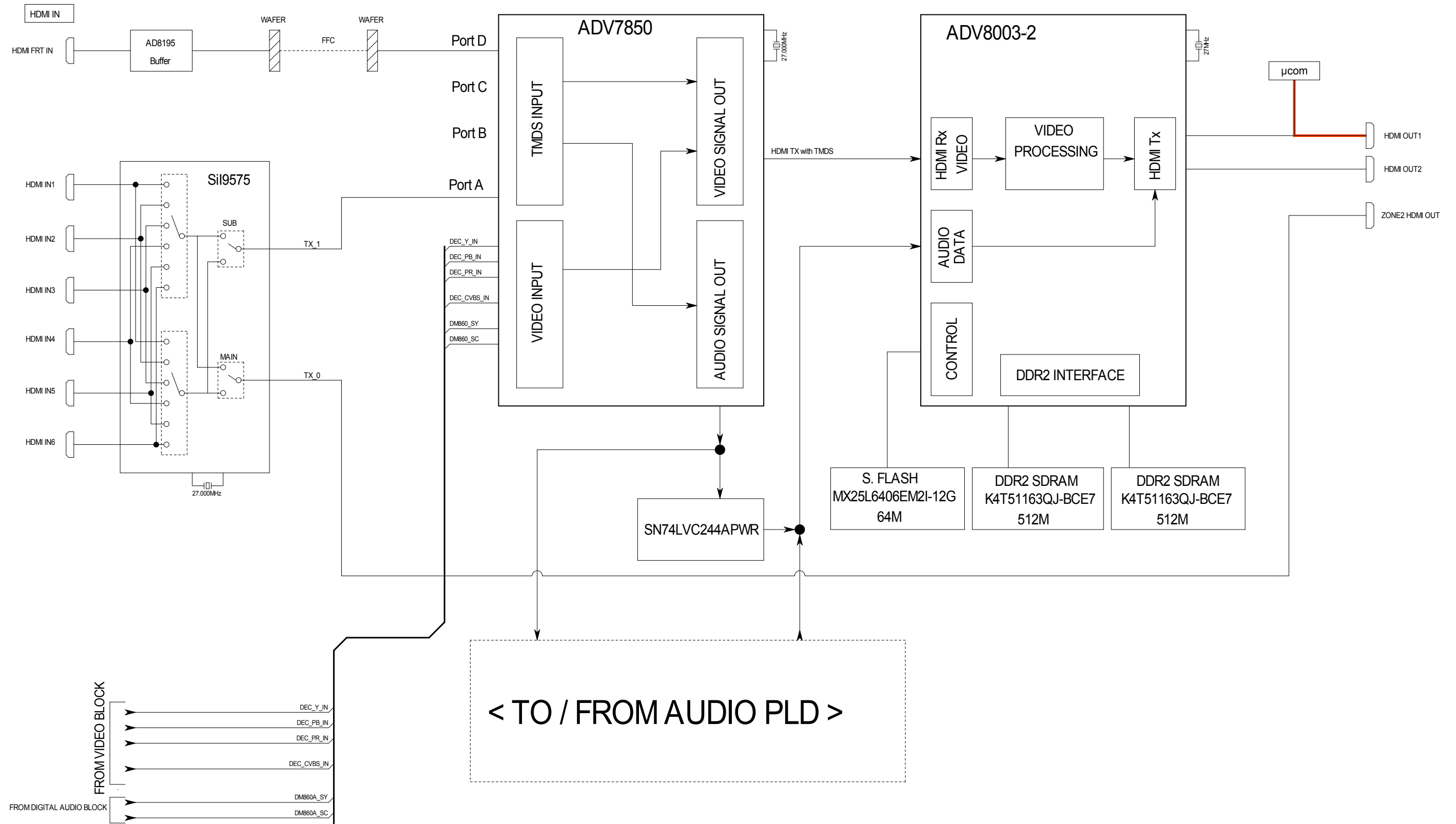


fig.6

HDMI VIDEO BLOCK

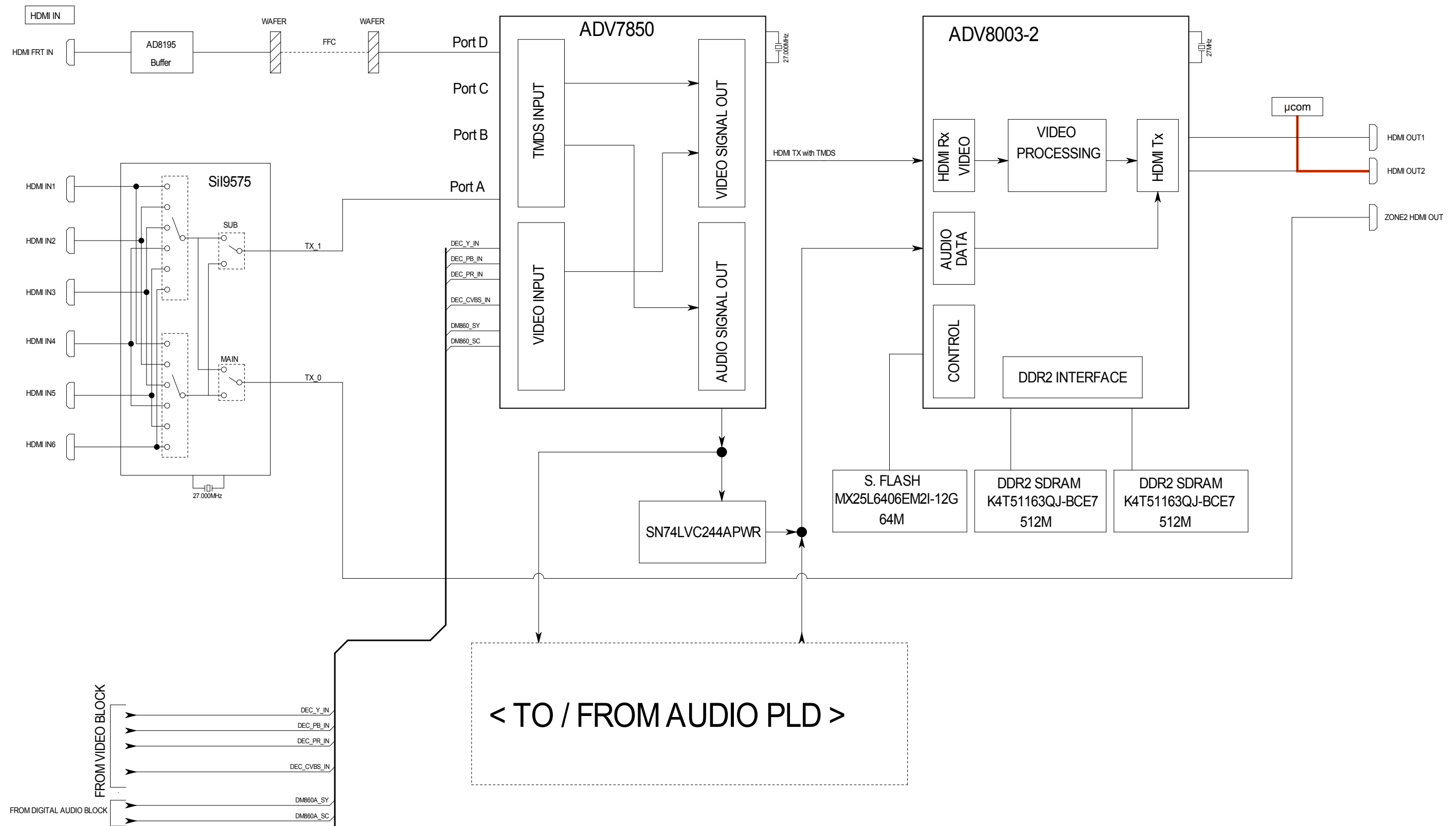


fig.7a

ANALOG AUDIO BLOCK

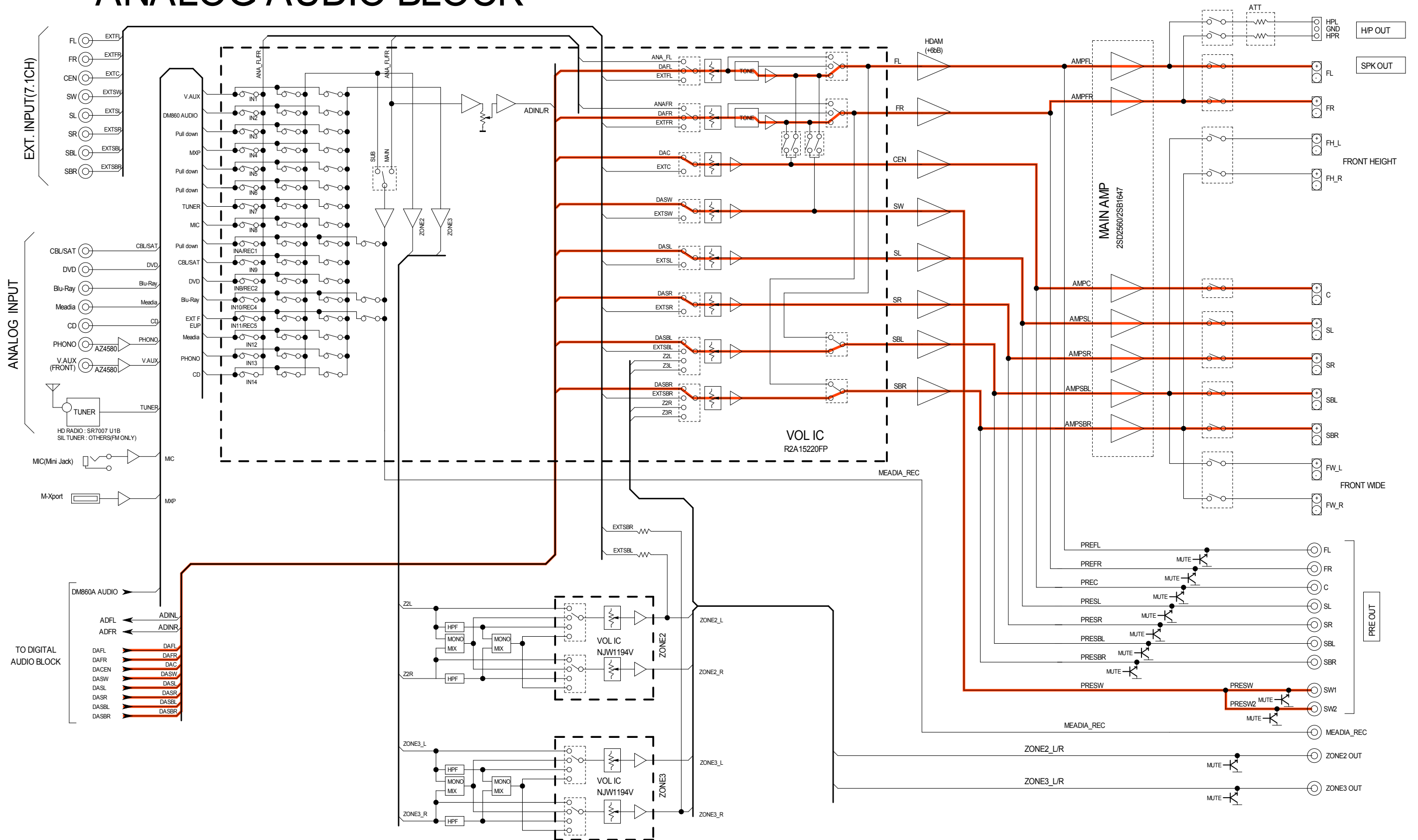


fig.7b

DIGITAL AUDIO BLOCK

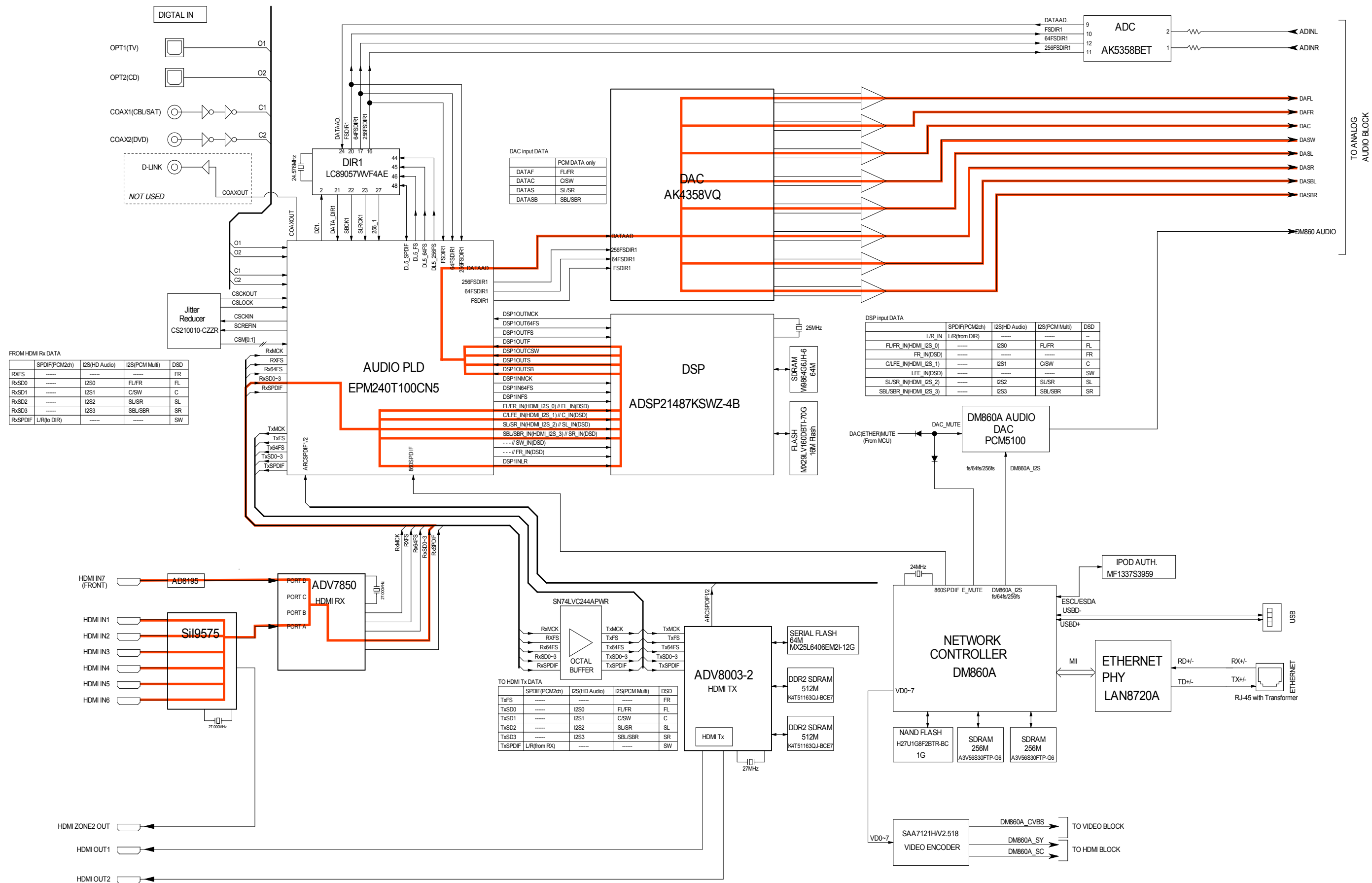


fig.8

DIGITAL AUDIO BLOCK

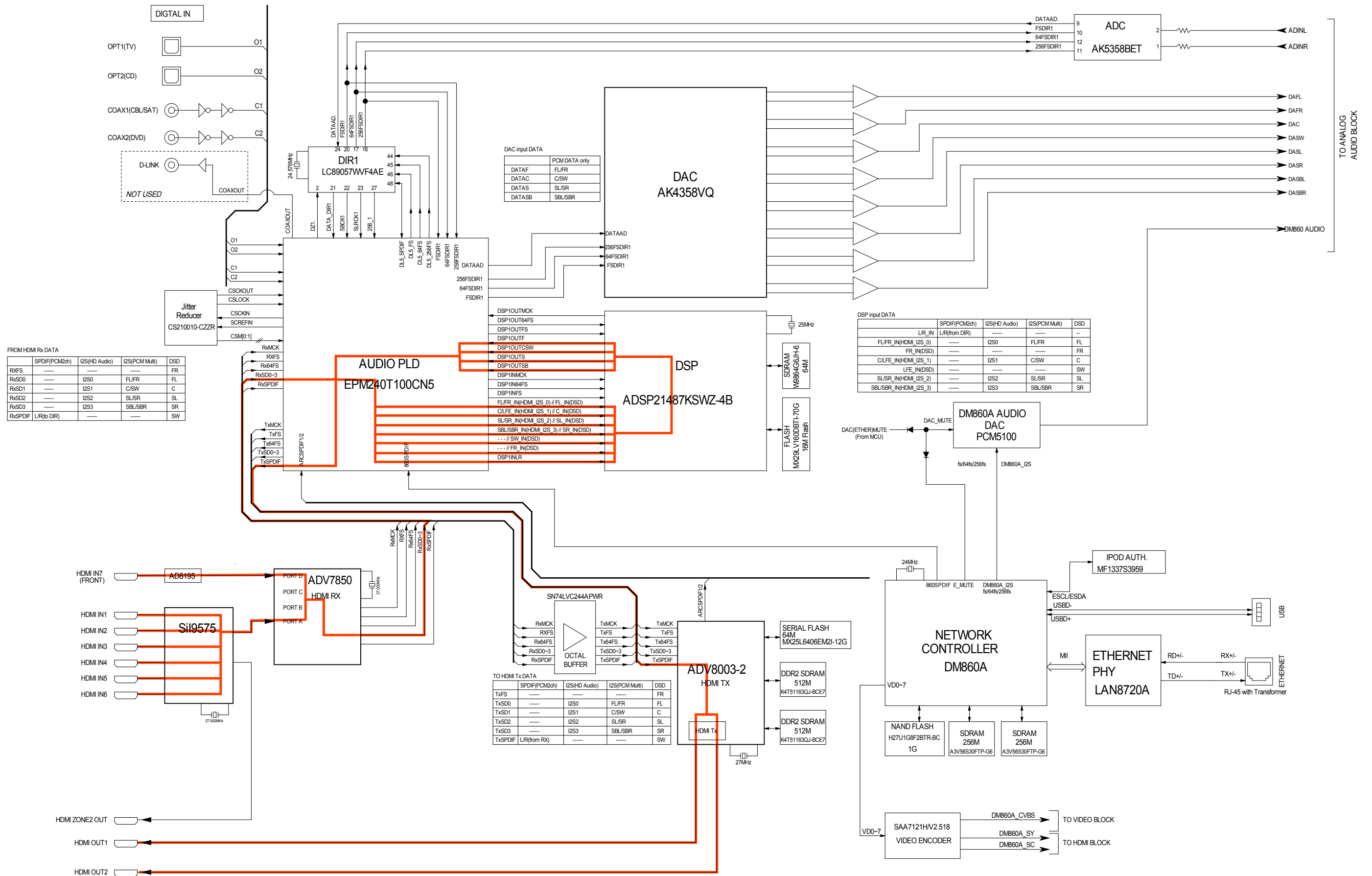


fig.9

HDMI VIDEO BLOCK

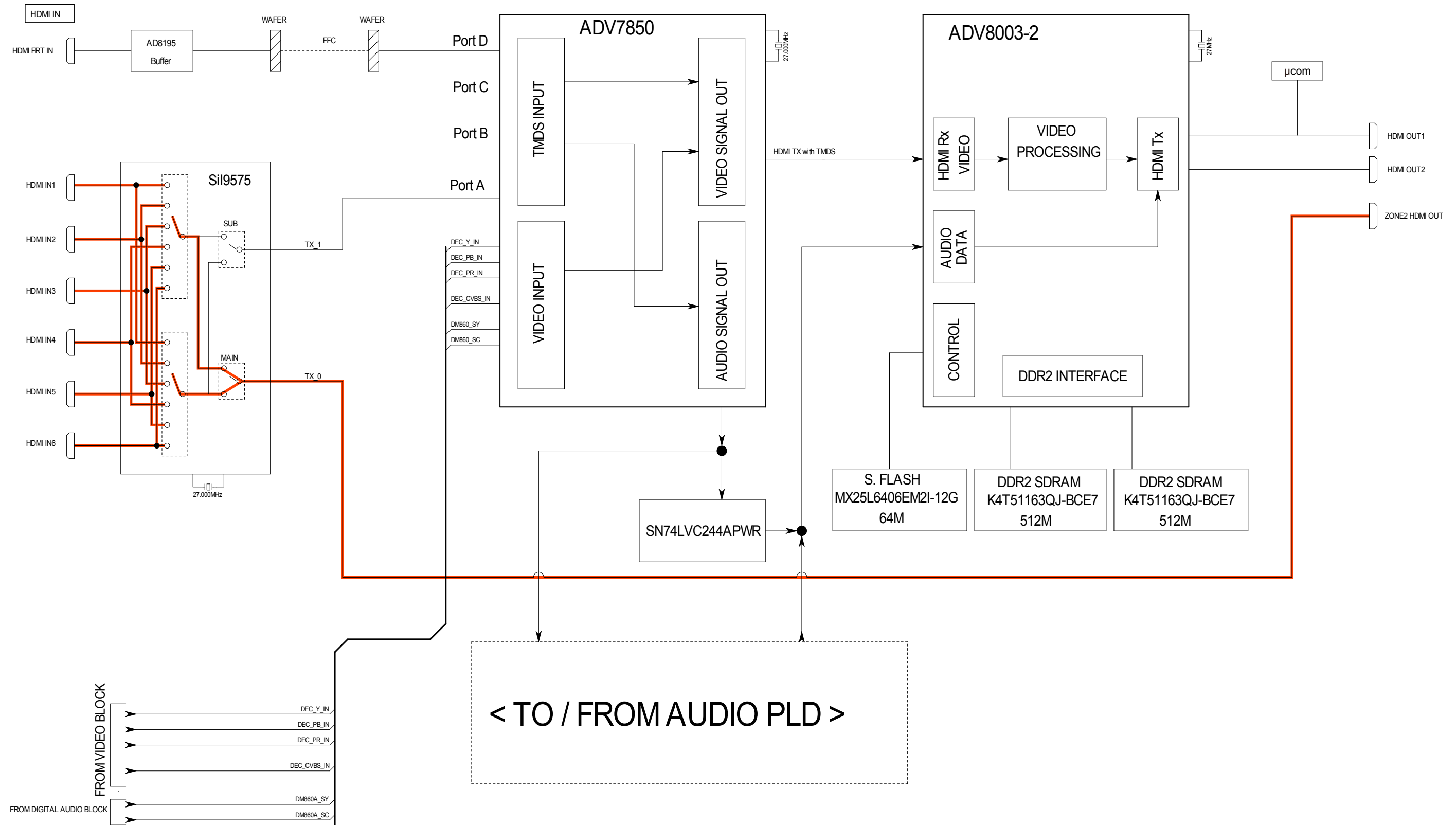


fig.10

ANALOG AUDIO BLOCK

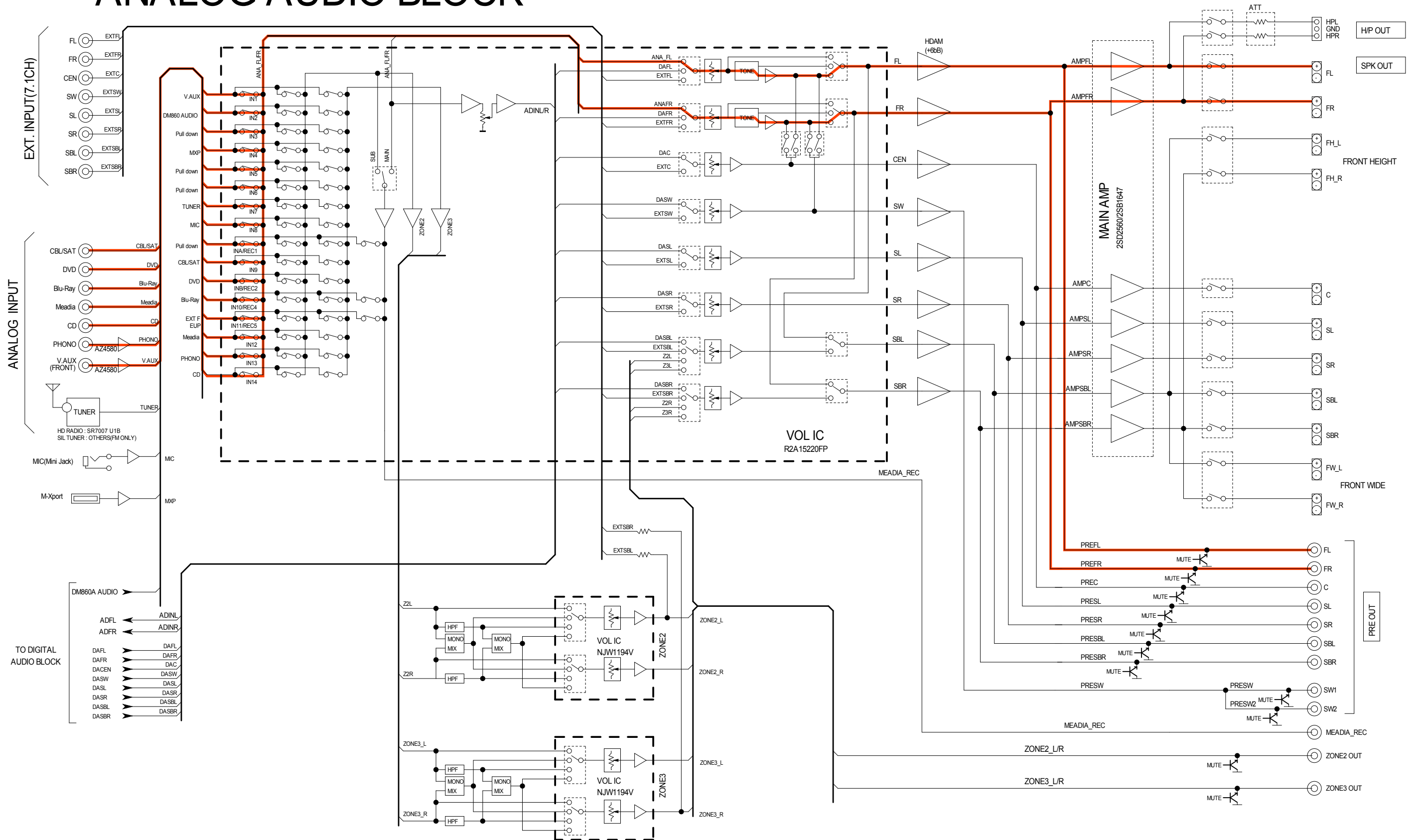


fig.11a

ANALOG AUDIO BLOCK

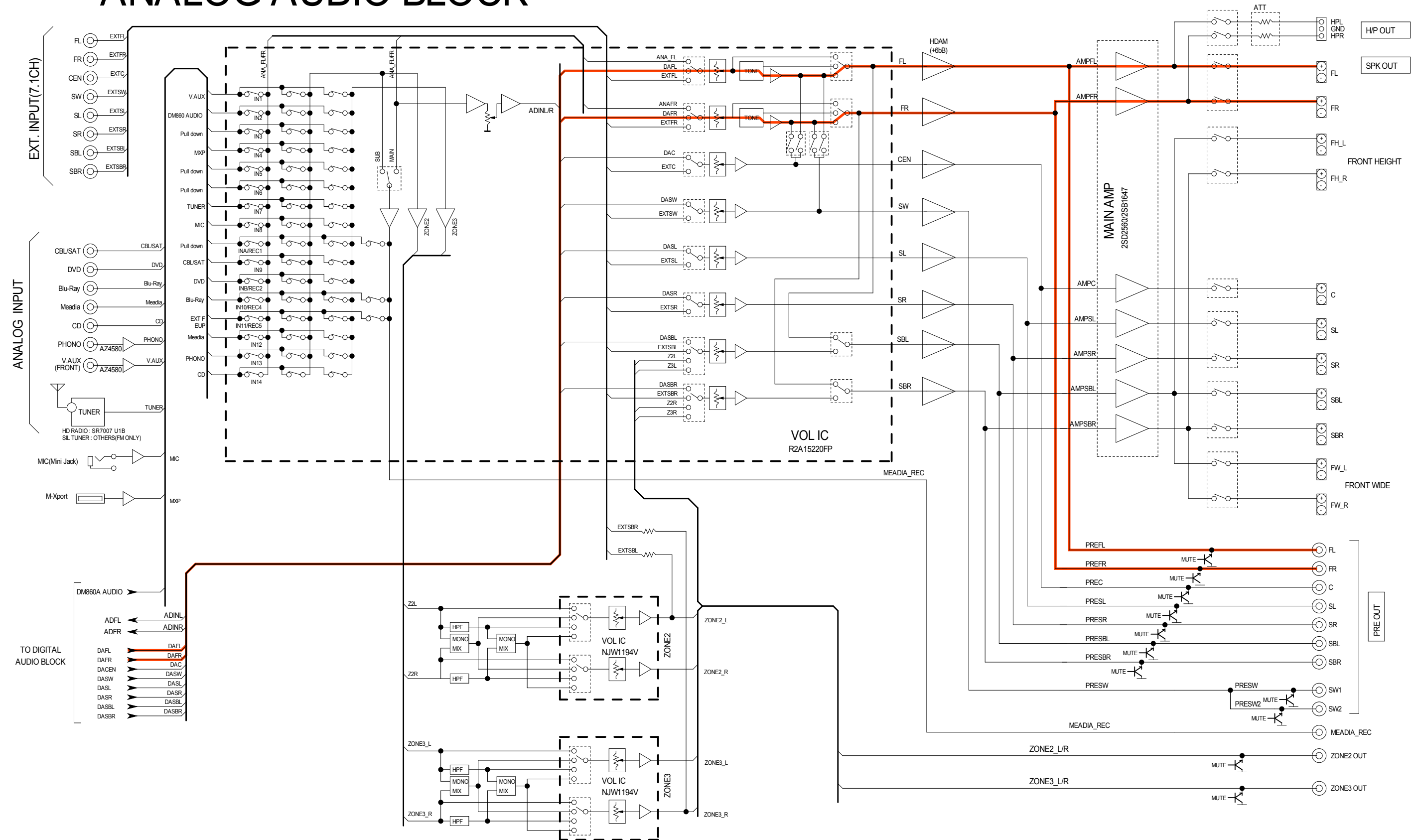


fig.11b

DIGITAL AUDIO BLOCK

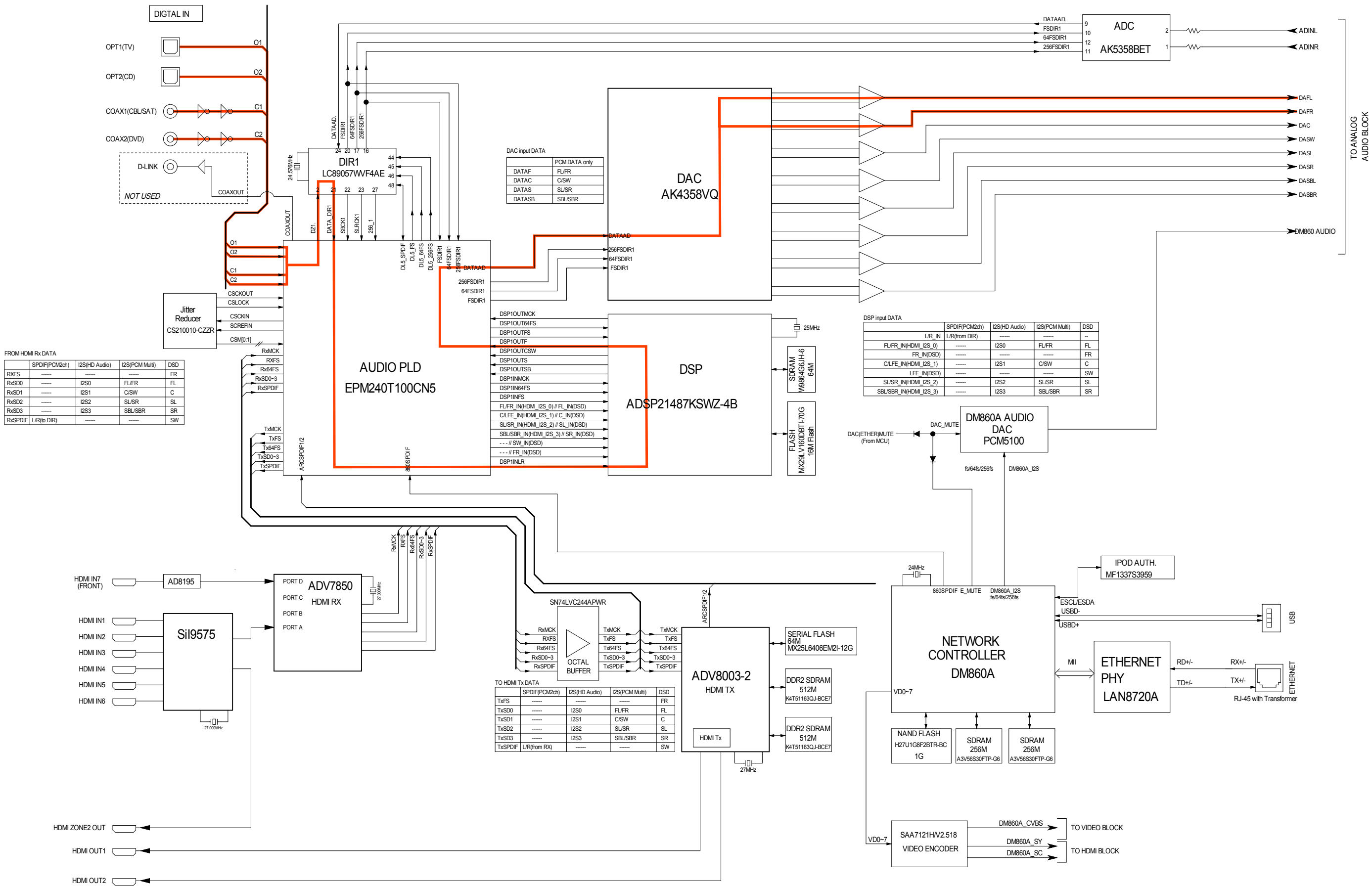


fig.12a

ANALOG AUDIO BLOCK

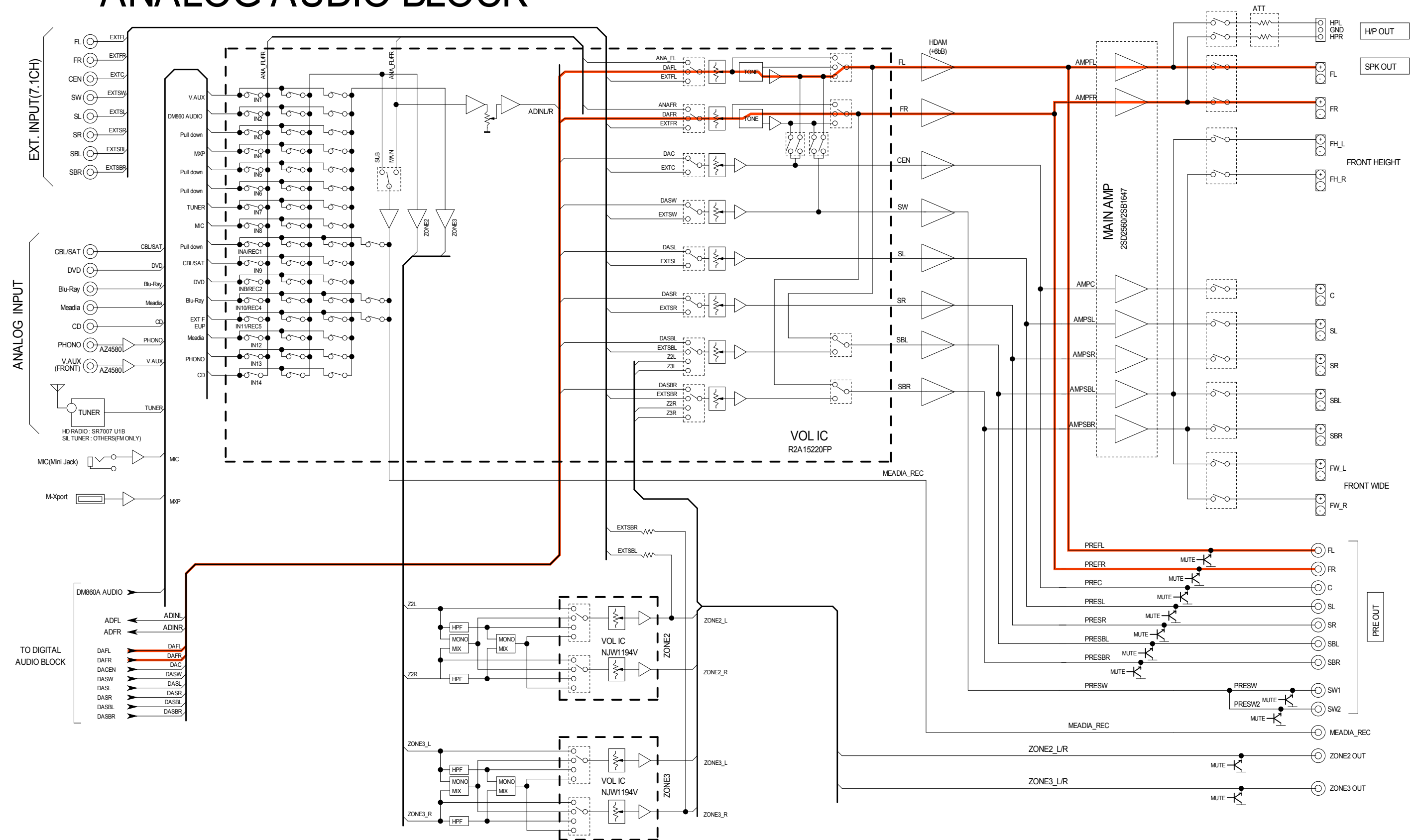


fig.12b

DIGITAL AUDIO BLOCK

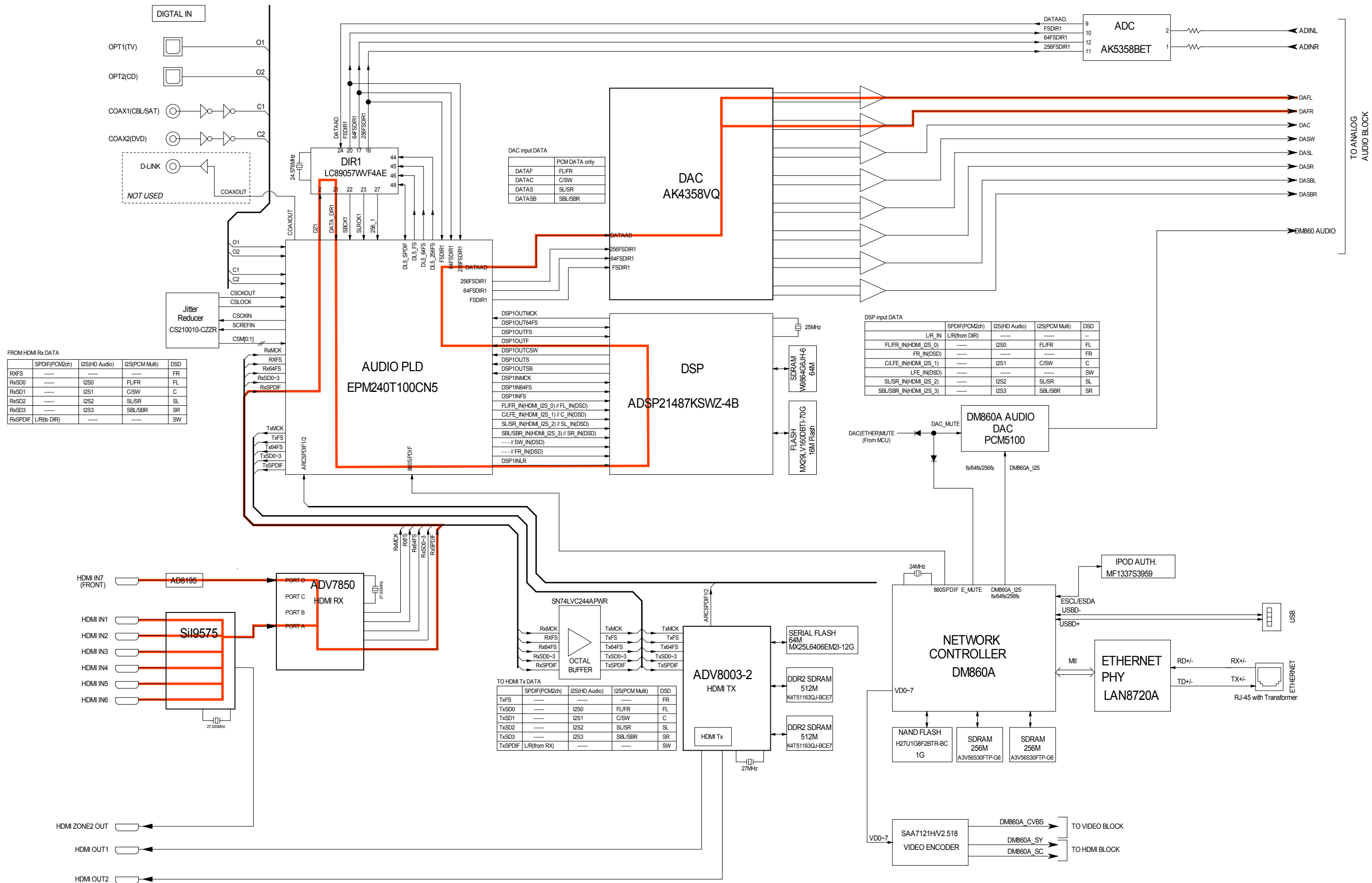


fig.13a

ANALOG AUDIO BLOCK

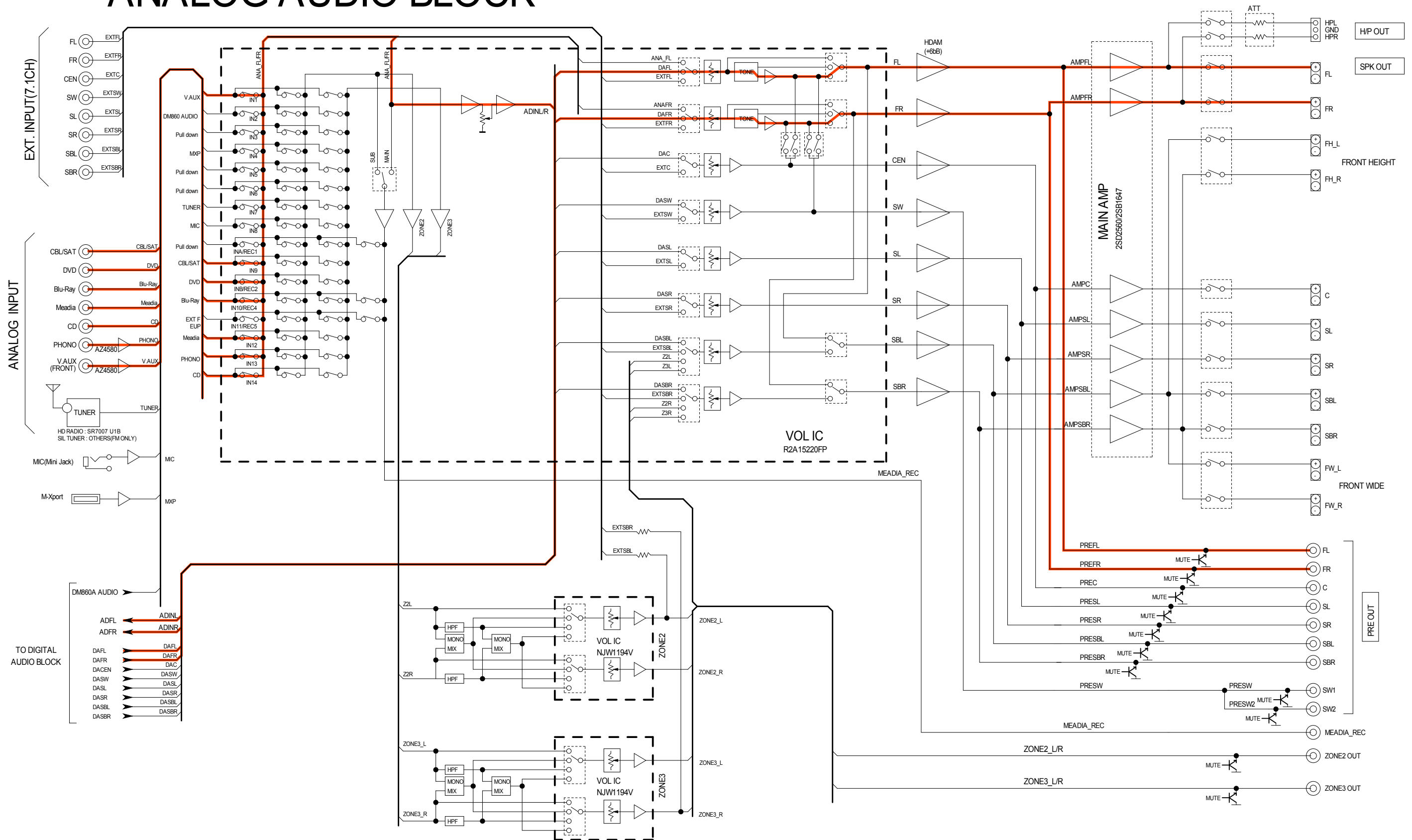
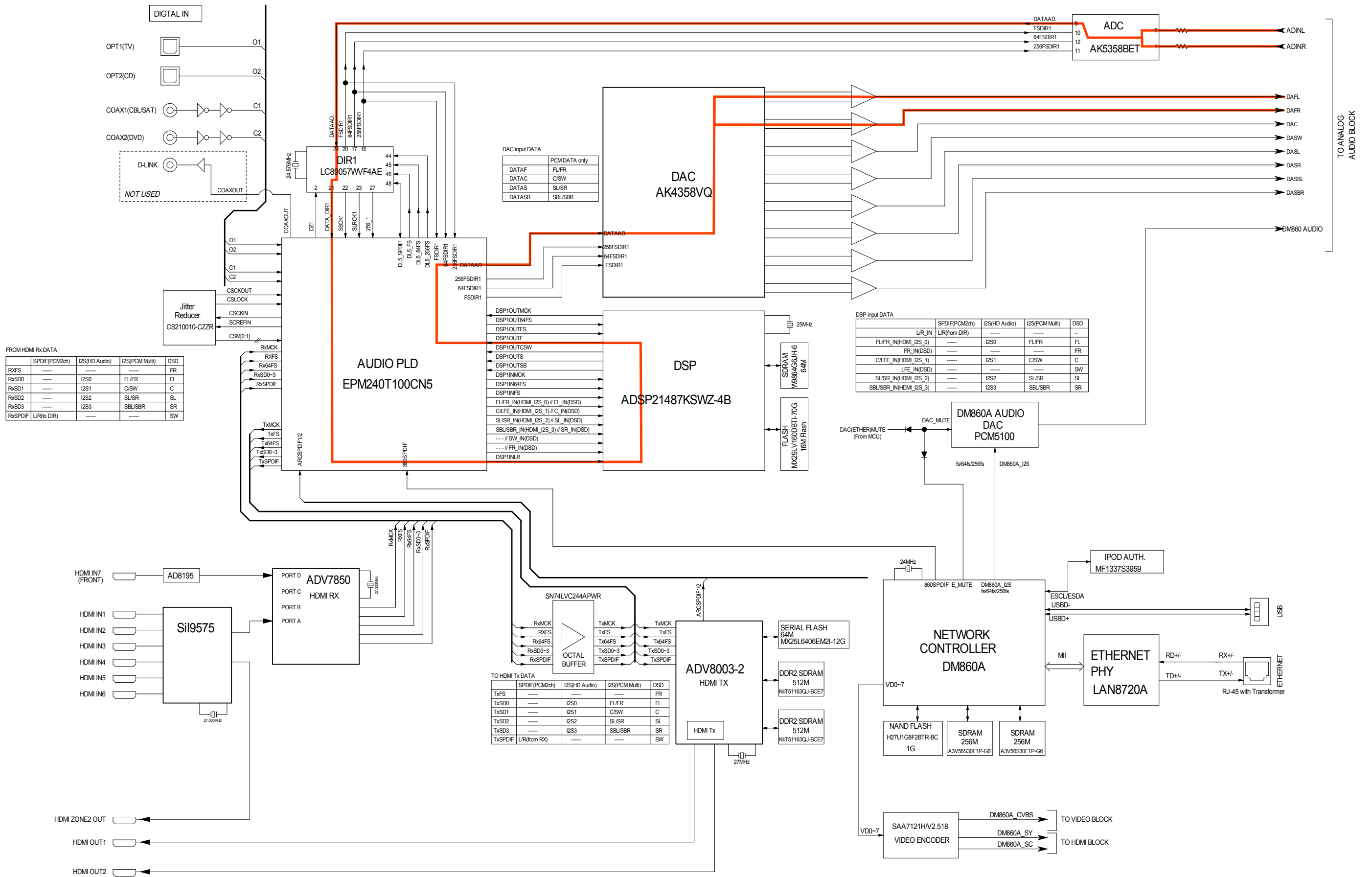


fig.13b

DIGITAL AUDIO BLOCK



ANALOG AUDIO BLOCK



fig.14b

DIGITAL AUDIO BLOCK

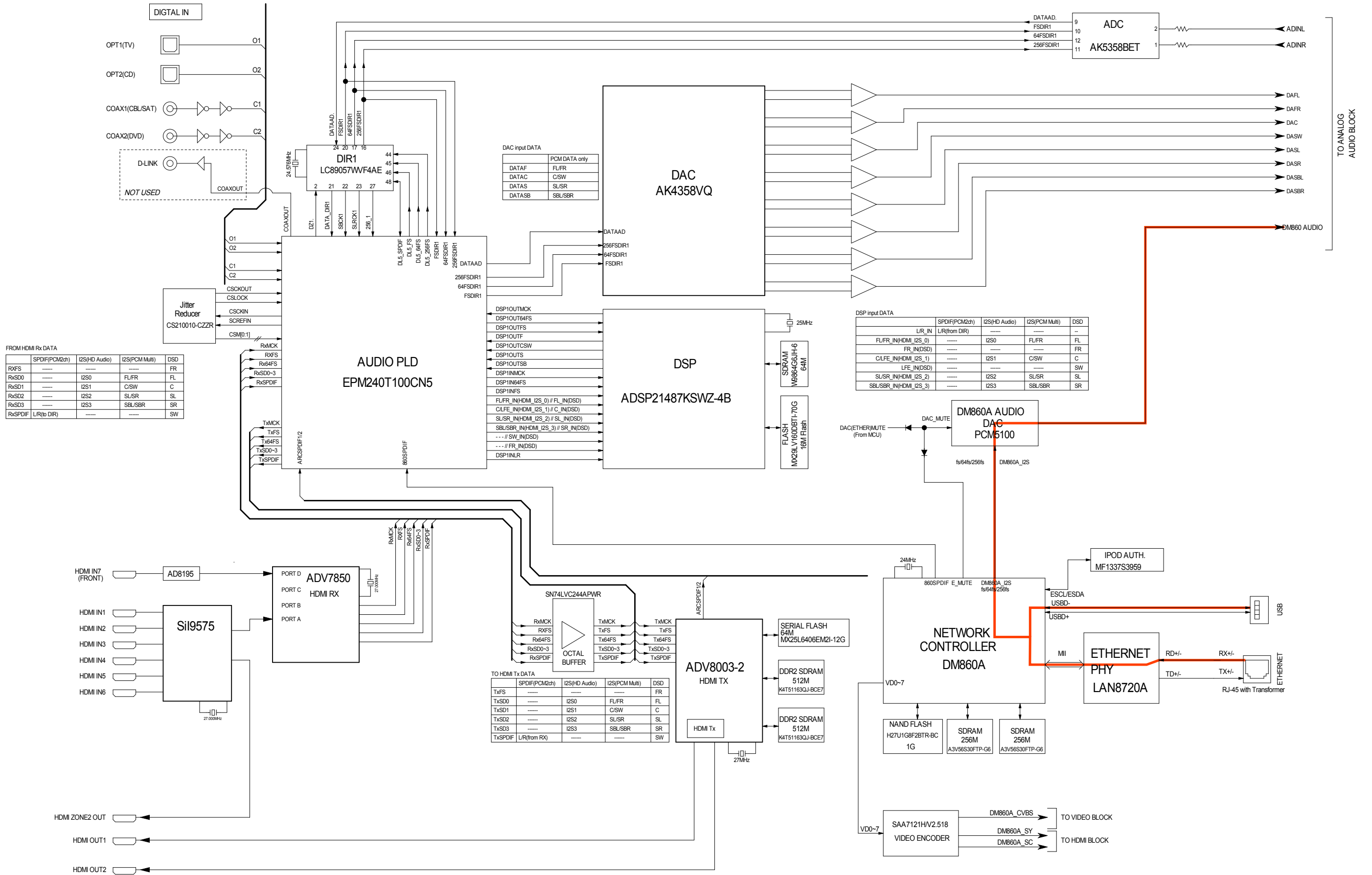


fig.15a

ANALOG AUDIO BLOCK

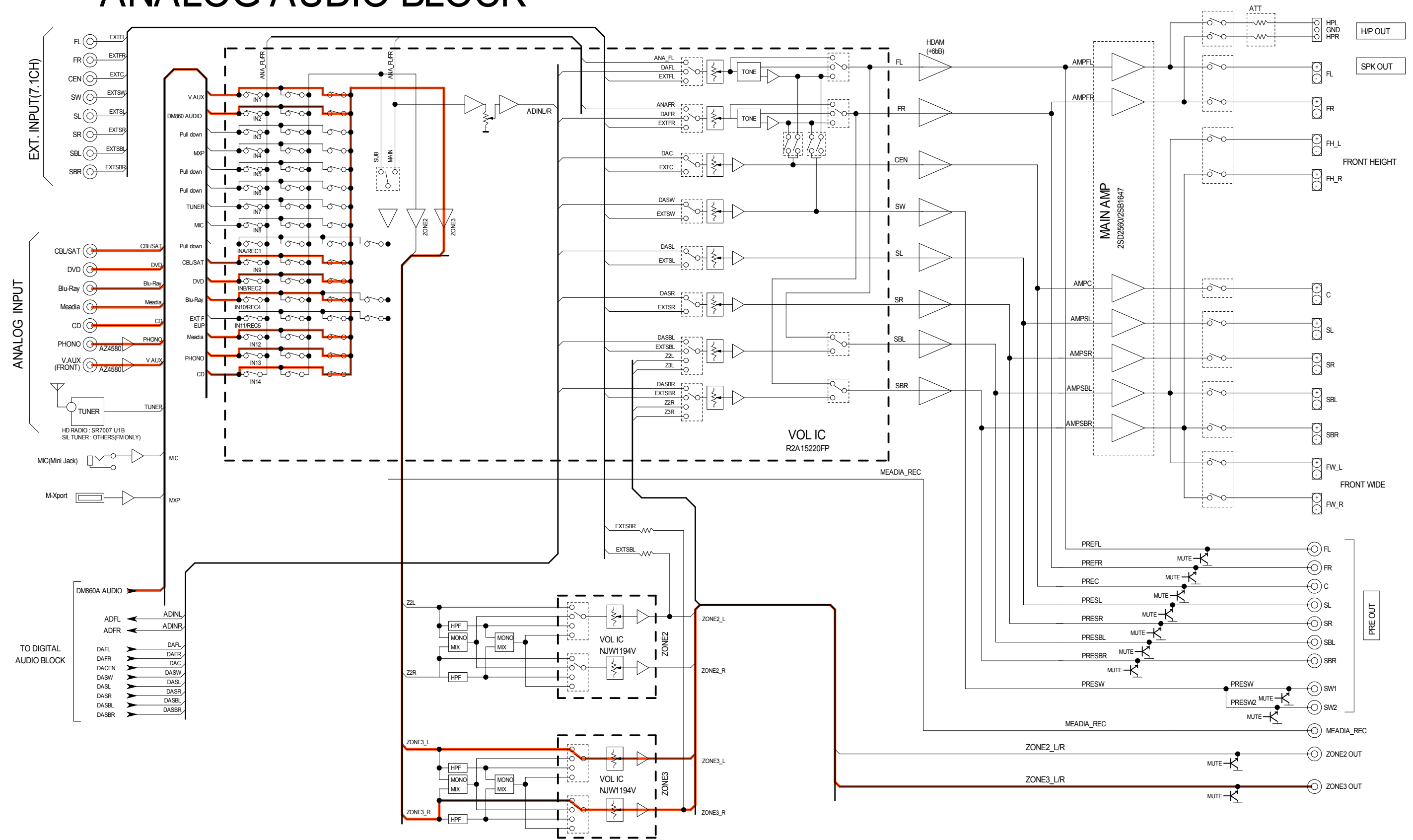


fig.15b

DIGITAL AUDIO BLOCK

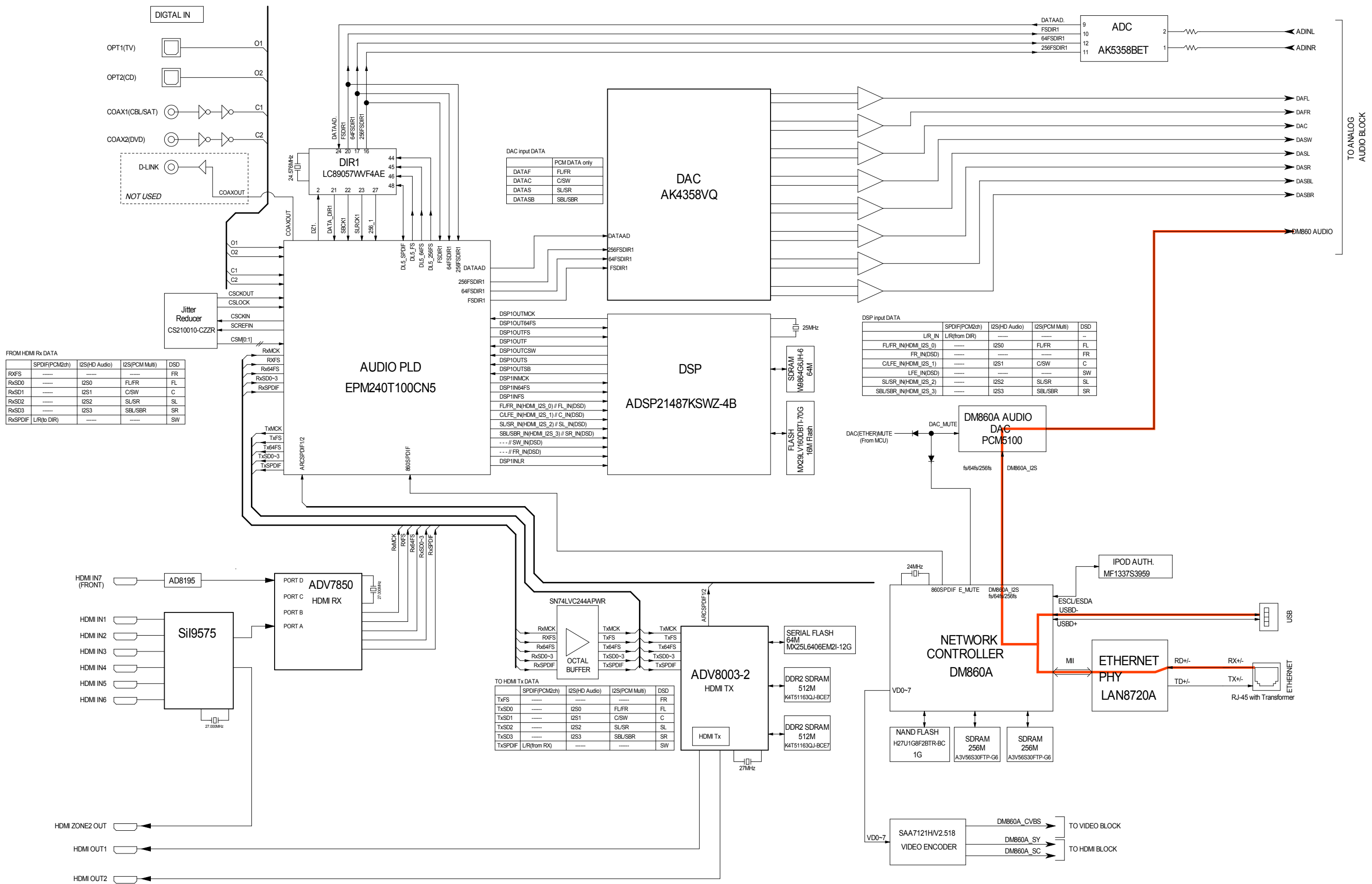


fig.18

ANALOG AUDIO BLOCK

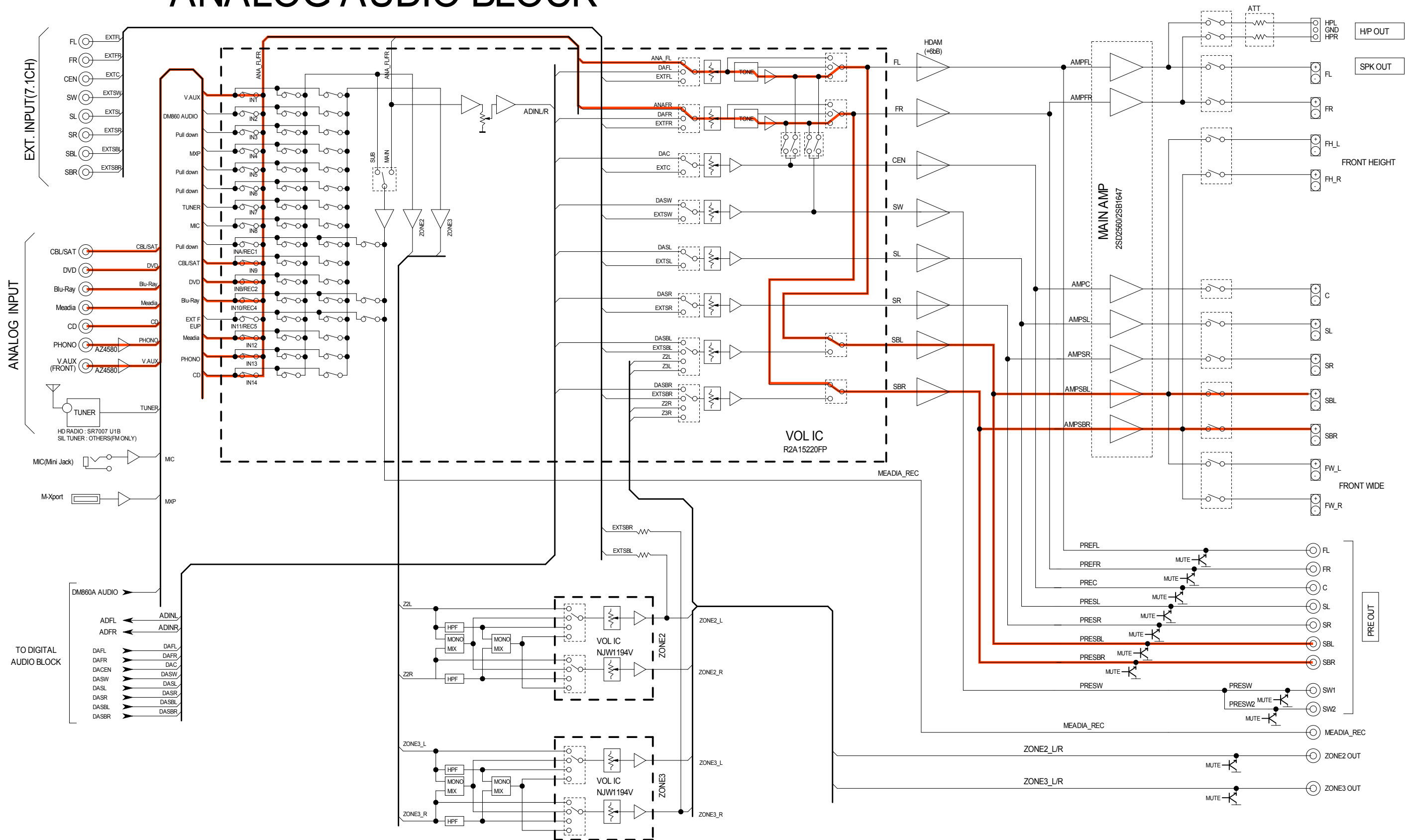


fig.19a

ANALOG AUDIO BLOCK

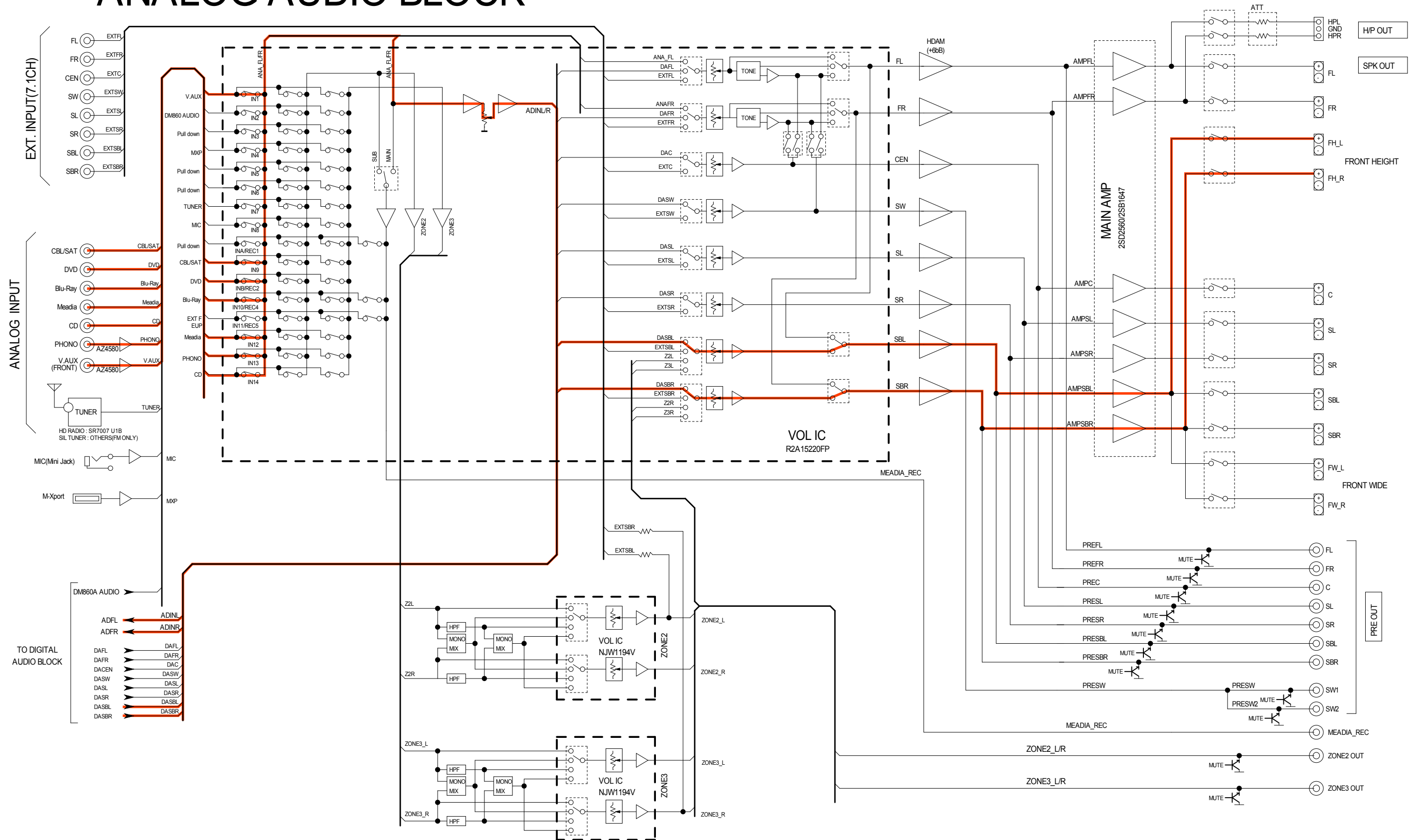


fig.19b

DIGITAL AUDIO BLOCK

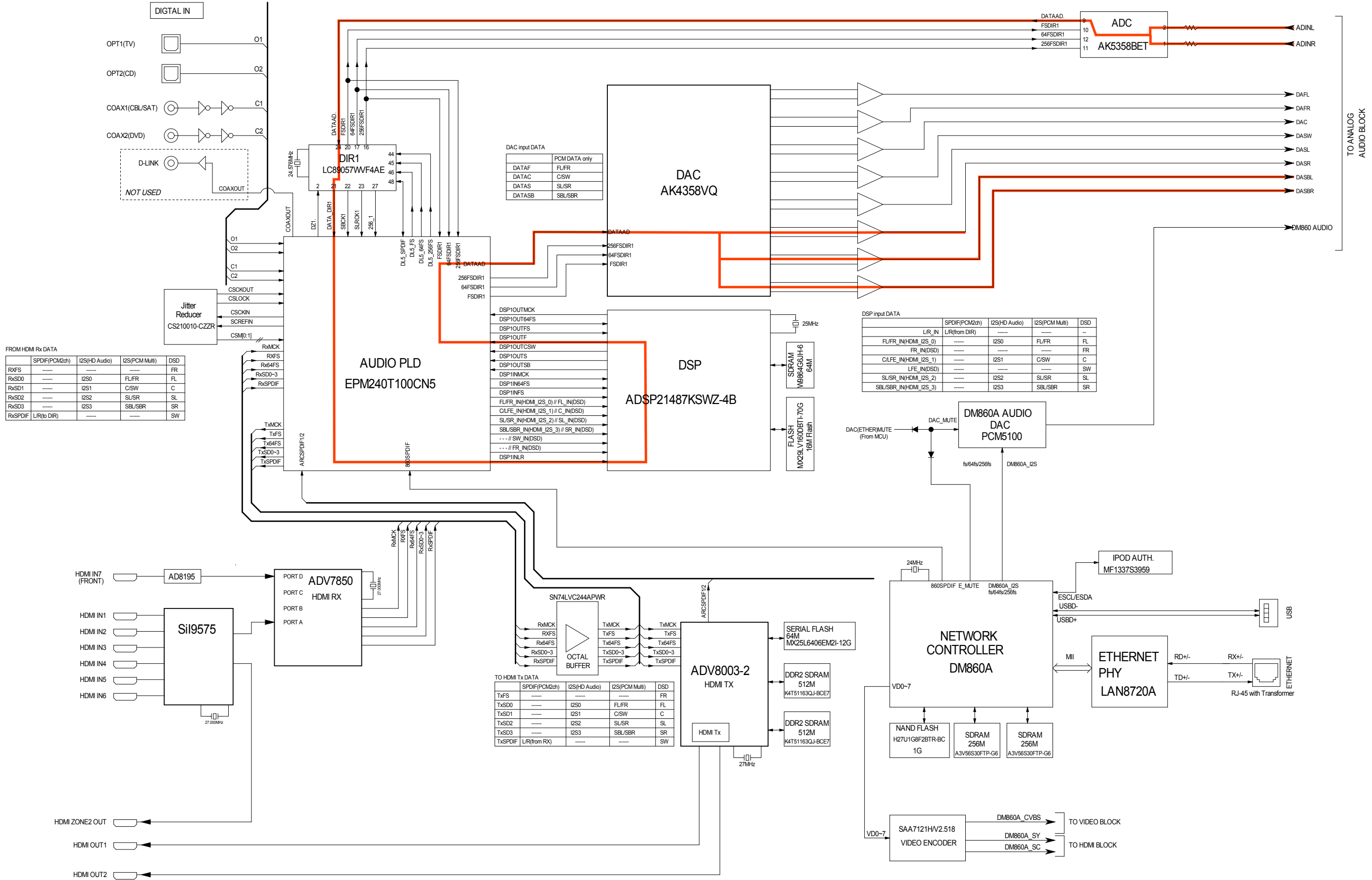


fig.20a

ANALOG AUDIO BLOCK

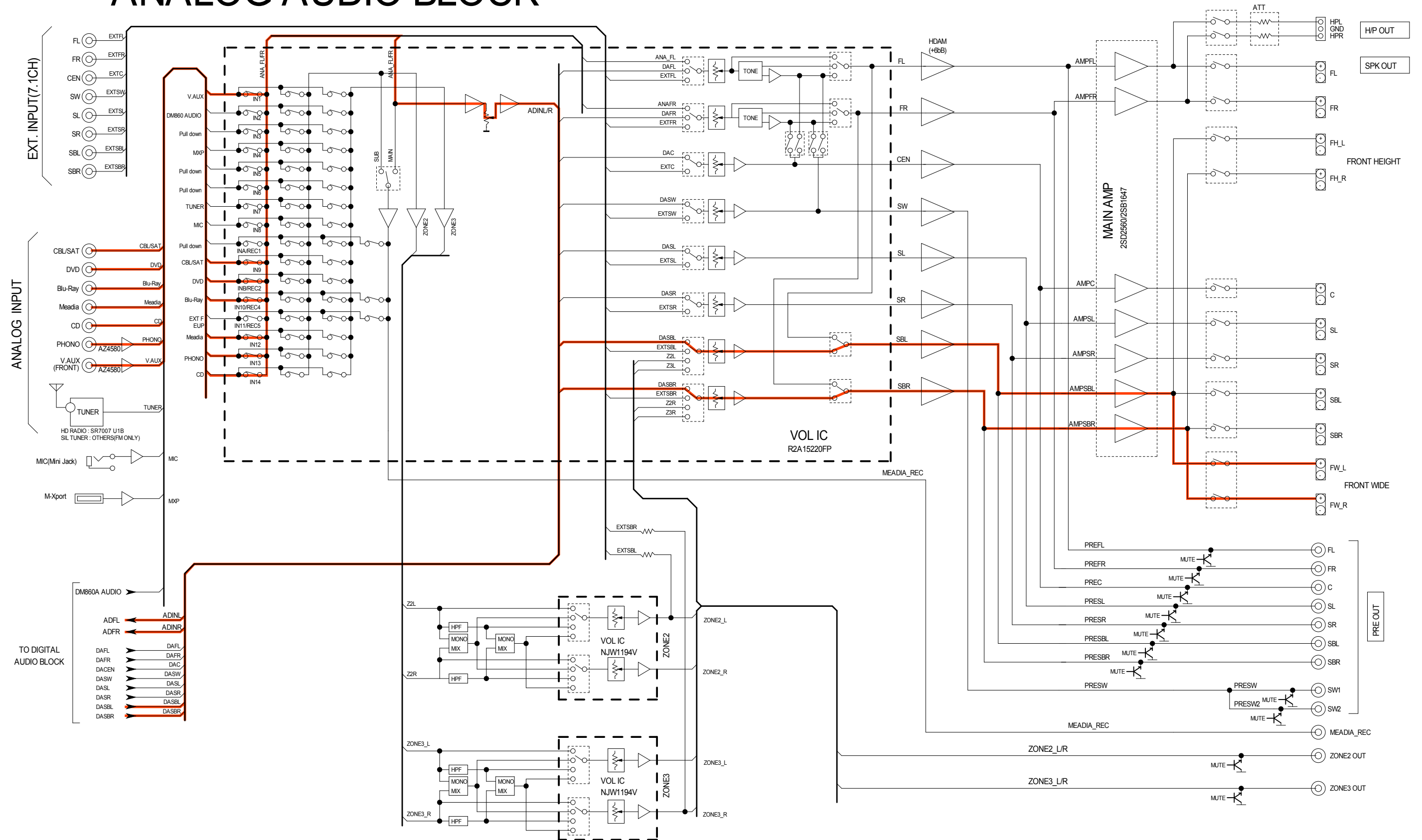
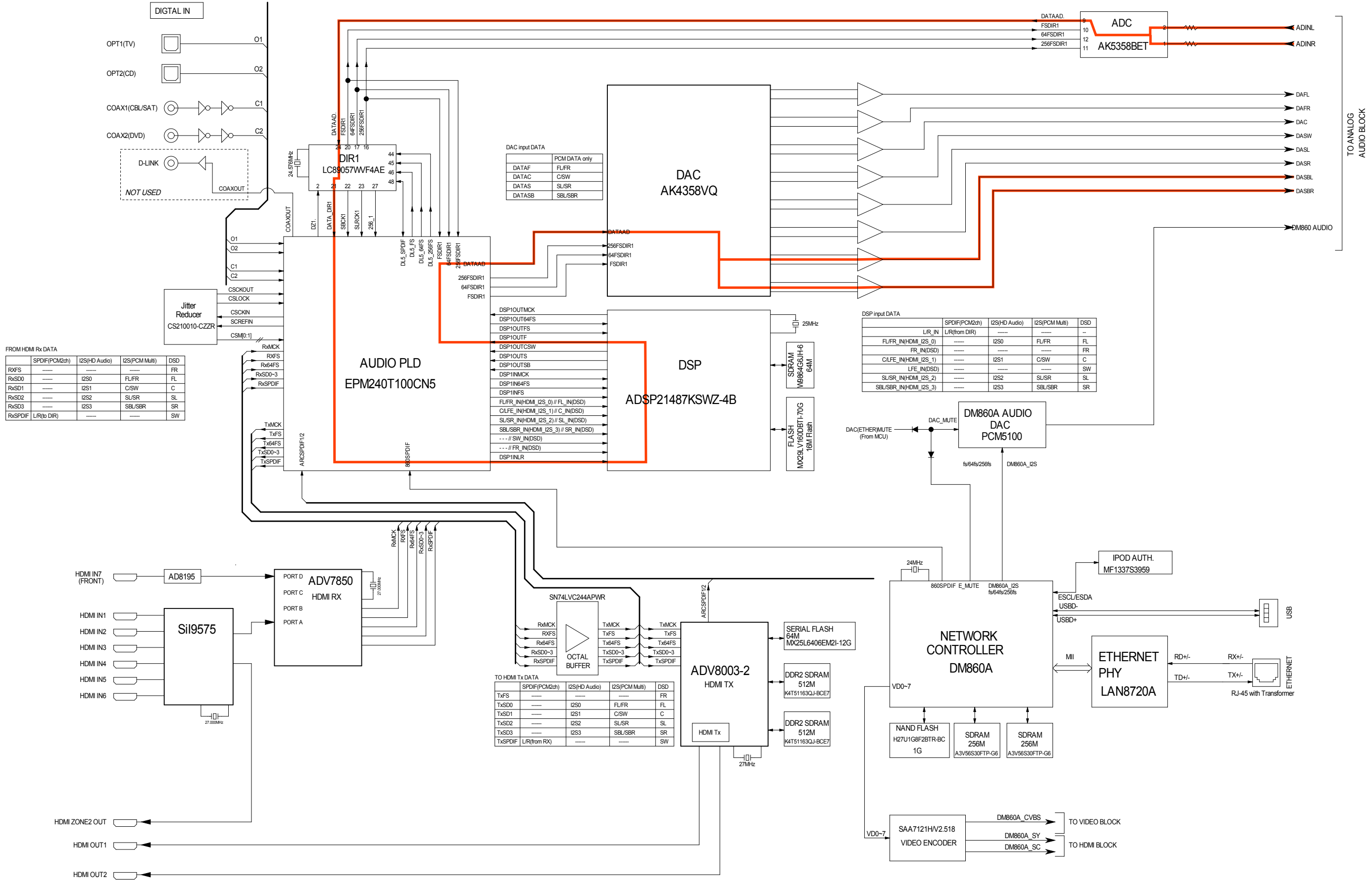
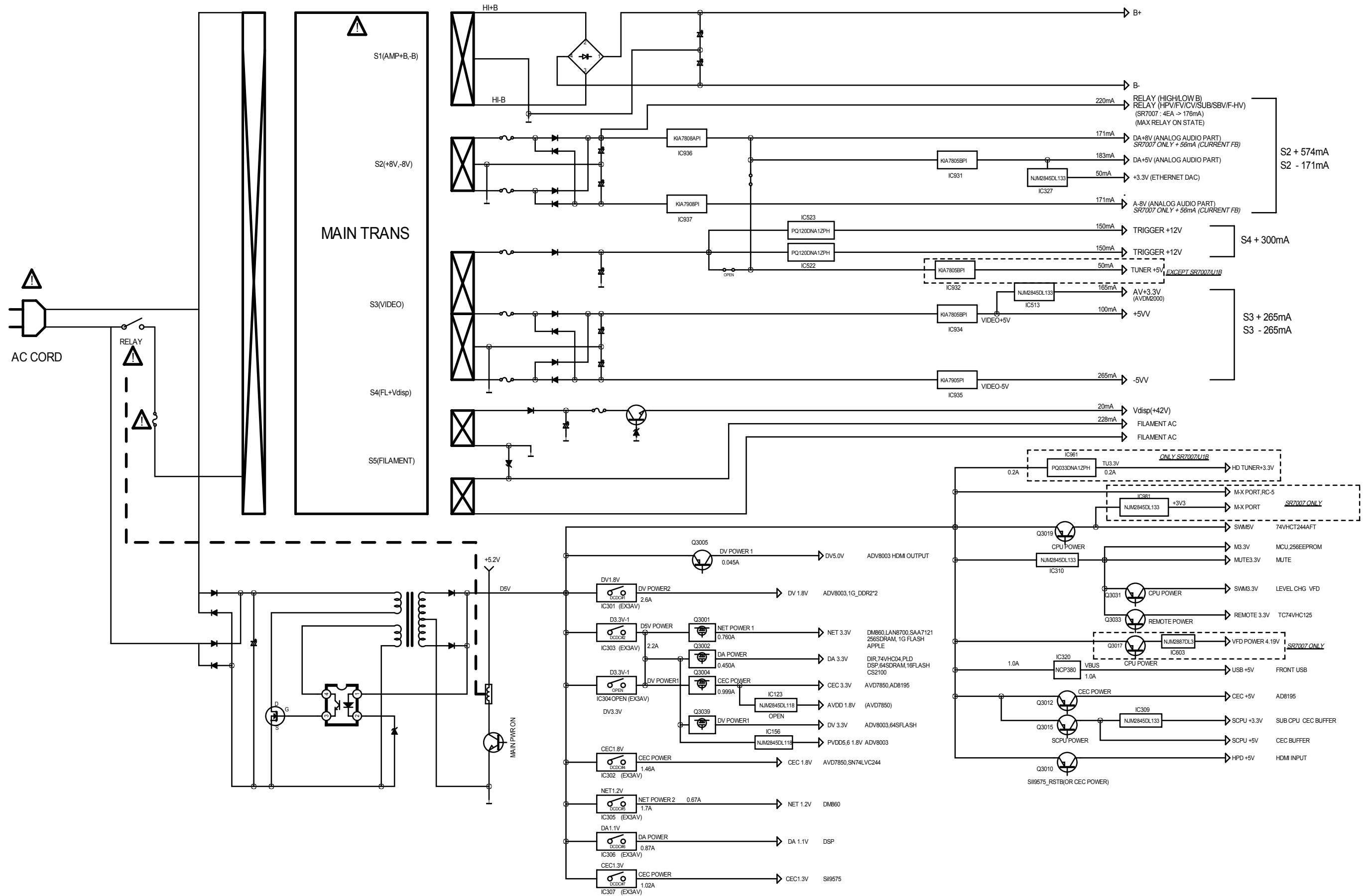


fig.20b

DIGITAL AUDIO BLOCK



POWER BLOCK DIAGRAM



JIG FOR SERVICING

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

NOTE: The incorrect connection with in the JIG (EXTENSION UNIT KIT) may cause damage.

8U-110084S : EXTENSION UNIT KIT : 2 Set

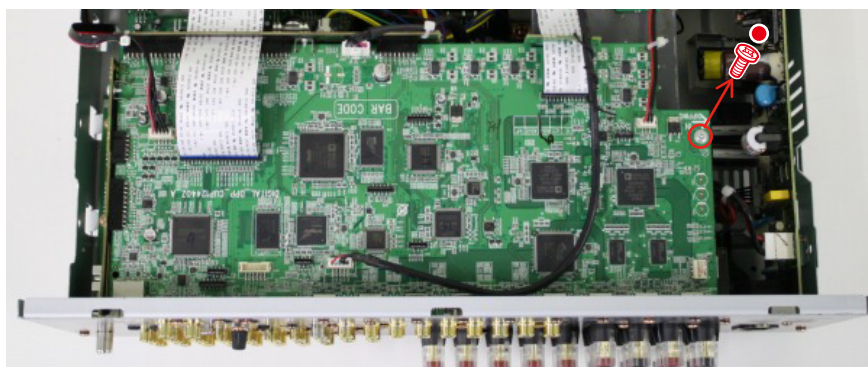
• Connection of PCB HDMI JIG

-Preparation-

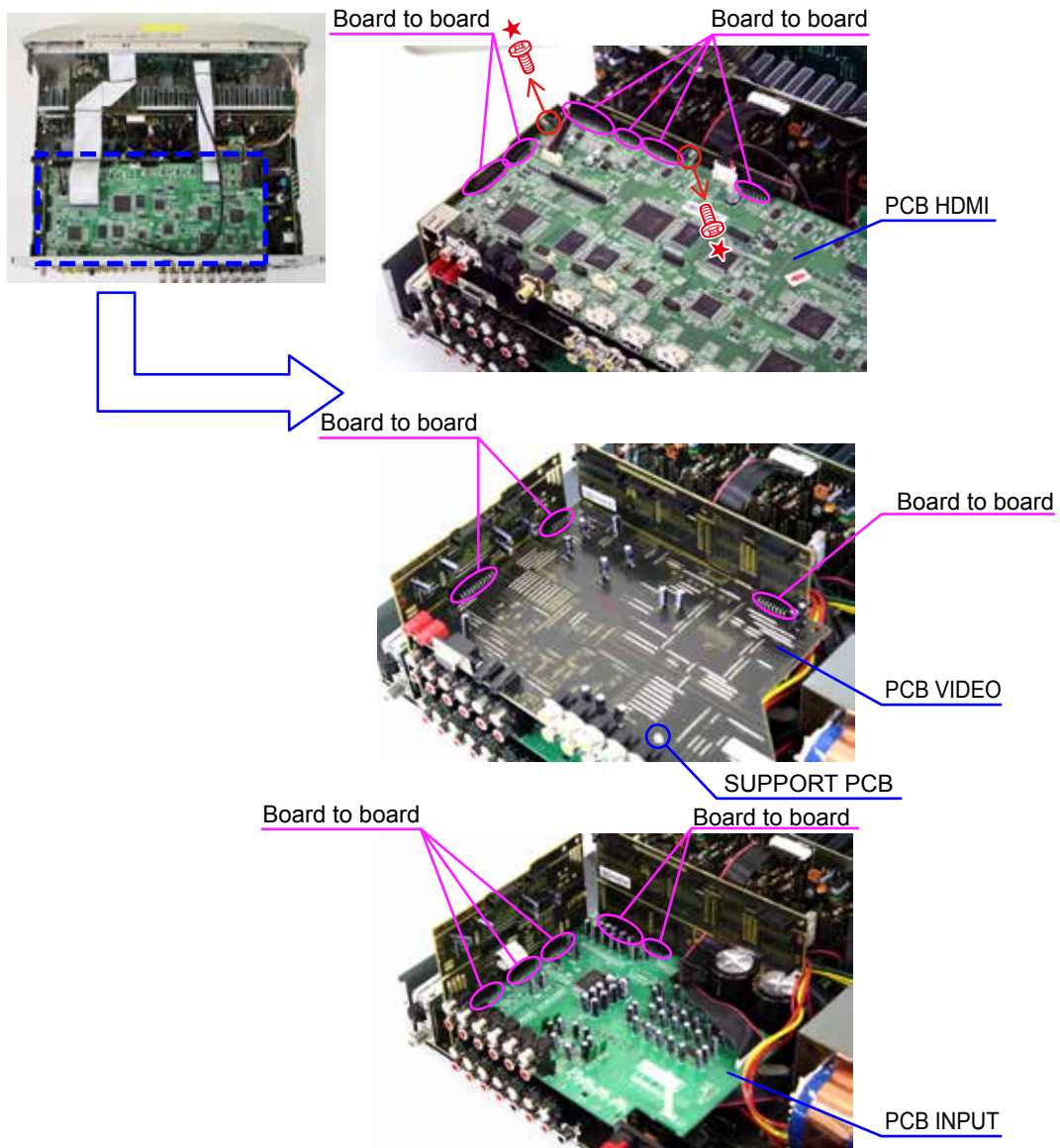
8U-110084S : EXTENSION UNIT KIT : 1 Set
Insulation sheet (Do not supply it) : 3 sheets
Ground lead (Do not supply it) : 3 pcs

-Procedures-

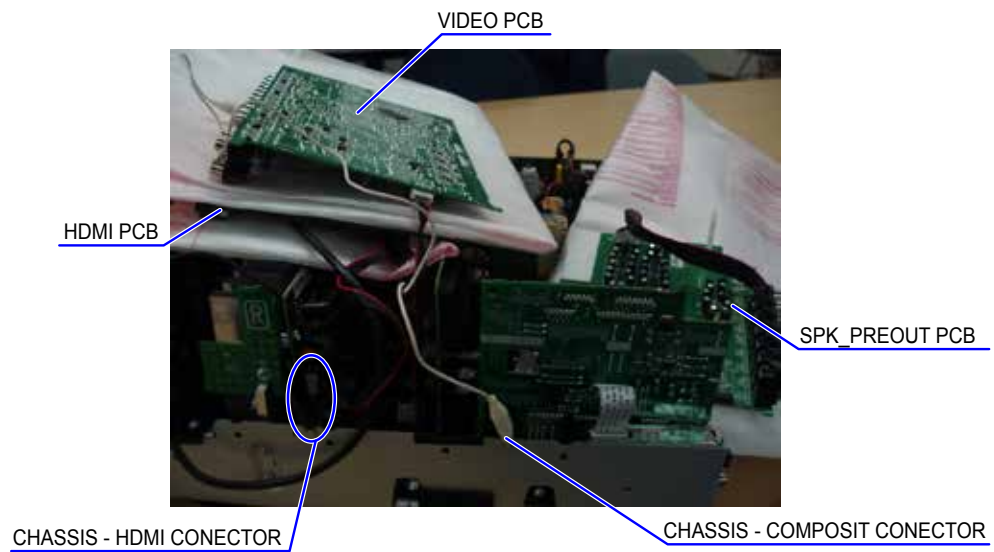
(1) Remove the screws.



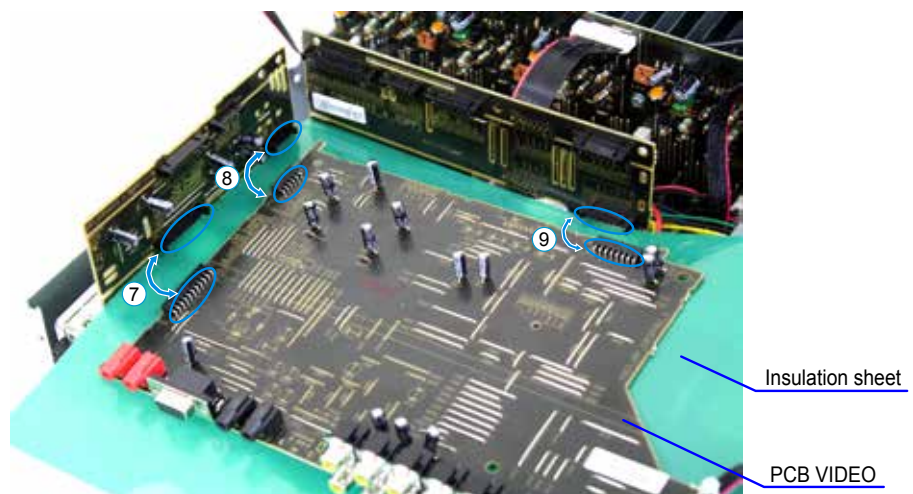
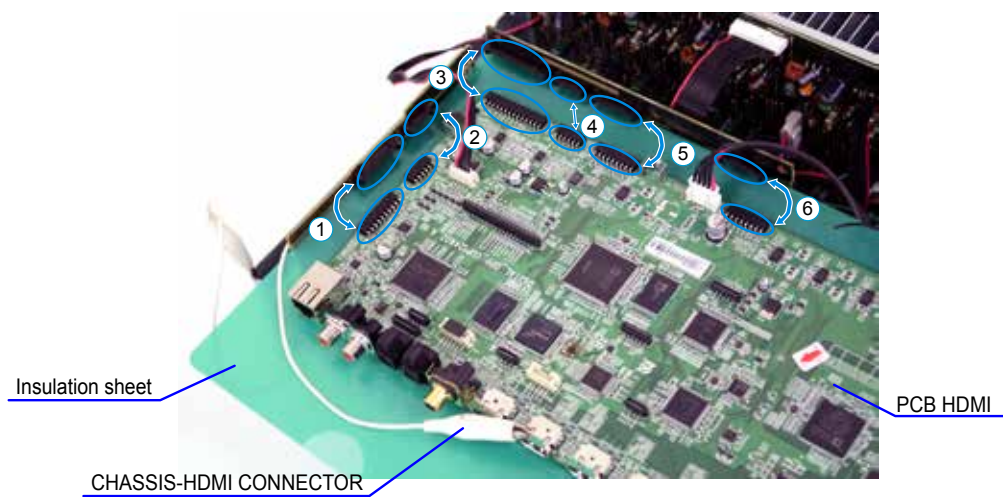
(2) Disconnect the connector board.

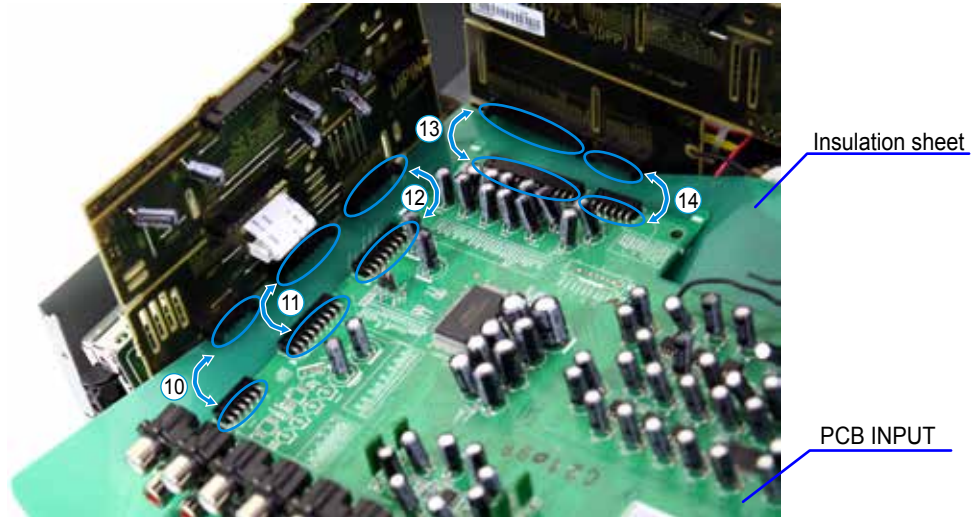


- (3) Detach PCB HDMI from the chassis, and turn it over.
Please put an insulation sheet that is larger than PCB HDMI under PCB.
※ Connect the ground point of PCB to the chassis with a ground lead or the like.



- (4) Connect the six extension jig cables.





Connection table of Board to Board

No.	Pin	Ref. No.	PCB		Ref. No.	PCB
①	19pin	CN27A	SIDE CNT	↔	CN27B	HDMI
②	11pin	CN28A	SIDE CNT	↔	CN28B	HDMI
③	27pin	CN24A	FRONT CNT	↔	CN24B	HDMI
④	11pin	CN26A	FRONT CNT	↔	CN26B	HDMI
⑤	17pin	CN25A	FRONT CNT	↔	CN25B	HDMI
⑥	15pin	CN21A	FRONT CNT	↔	CN21B	HDMI
⑦	21pin	CN53A	SIDE CNT	↔	CN53B	VIDEO
⑧	11pin	CN52A	SIDE CNT	↔	CN52B	VIDEO
⑨	15pin	CN51A	FRONT CNT	↔	CN51B	VIDEO
⑩	11pin	CN45A	SIDE CNT	↔	CN45B	INPUT
⑪	17pin	CN44A	SIDE CNT	↔	CN44B	INPUT
⑫	15pin	CN41A	SIDE CNT	↔	CN41B	INPUT
⑬	27pin	CN42A	FRONT CNT	↔	CN42B	INPUT
⑭	11pin	CN43A	FRONT CNT	↔	CN43B	INPUT

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
HDMI	IC201	R5F56108VNFP	B	SOFTWARE: Main
HDMI	IC231	R5F3650KNFB	B	SOFTWARE: Sub
HDMI	IC410	MX29LV160DBTI-70G	B	SOFTWARE: DSP ROM
HDMI	IC406	EPM240T100C5N	B	SOFTWARE: Audio PLD
HDMI	IC155	MX25L6406EM2I-12G	B	SOFTWARE: Video 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

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

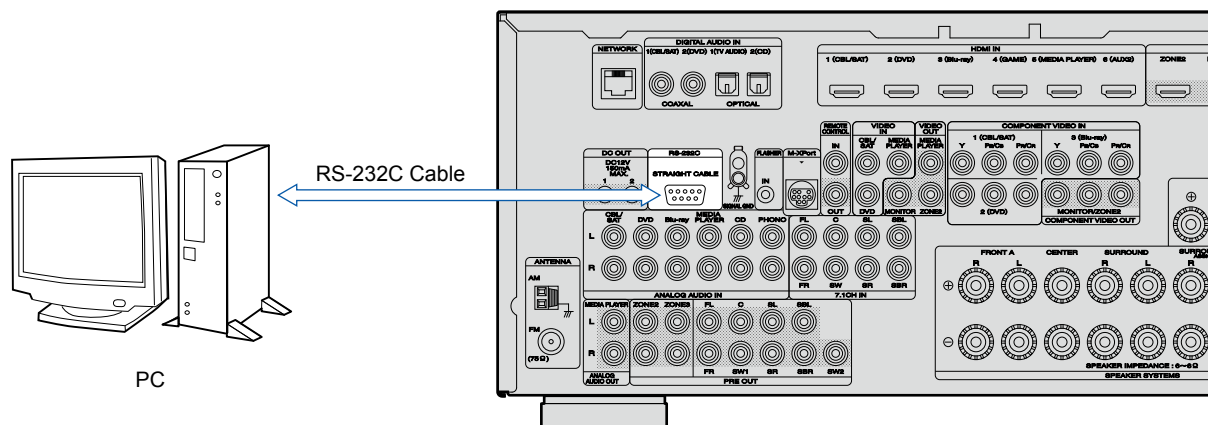
1. How to update by DFW

1.1. Preparations before starting the operation

- (1) Personal Computer (Installed "DFW_0016_SR7007_(Rev.X.X.X).exe".
- (2) RS-232C cable (9P (Male), Straight).

1.2. Connection of AV receiver

- (1) Confirm the power on/off switch of the AV receiver is turning off.
- (2) Connect the RS-232C cable from PC with the "RS232C Terminal of AV receiver".



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 "MOVIE" and "M-DAX" button of the front panel.
- (2) Confirm the power indicator is red.

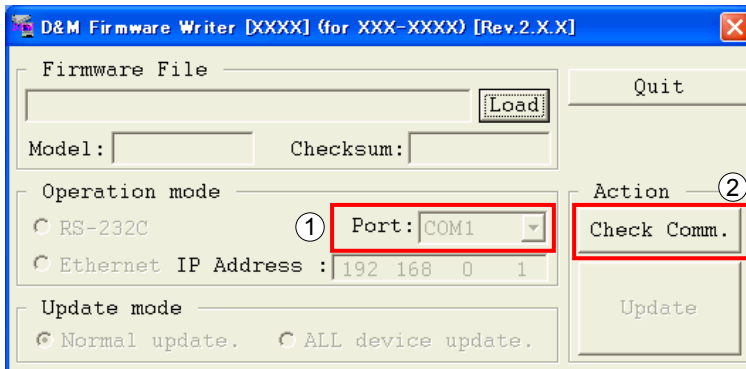
1.4. Run the DFW

Run the "DFW_0016_SR7007_(Rev.X.X.X).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.

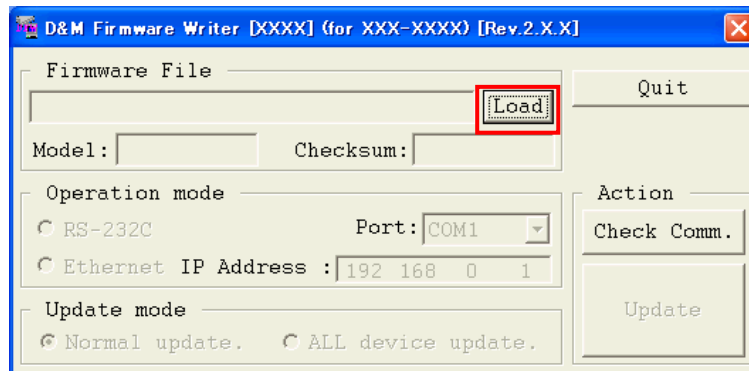


Please confirm the following

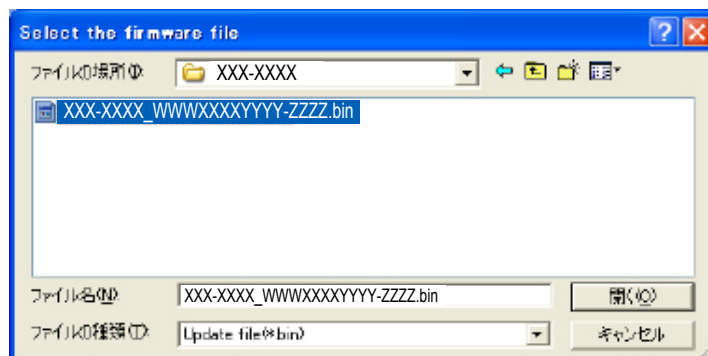
- (a) Check the connection of the AV receiver and PC. (refer to "1.2. Connection of the AV receiver")
- (b) Check the operation mode of the AV receiver. (refer to "1.3.Turn on the AV receiver")
- (c) Check the selection of the RS-232C port number of PC.

1.6. Download the firmware

(1) Click the "Load" button.

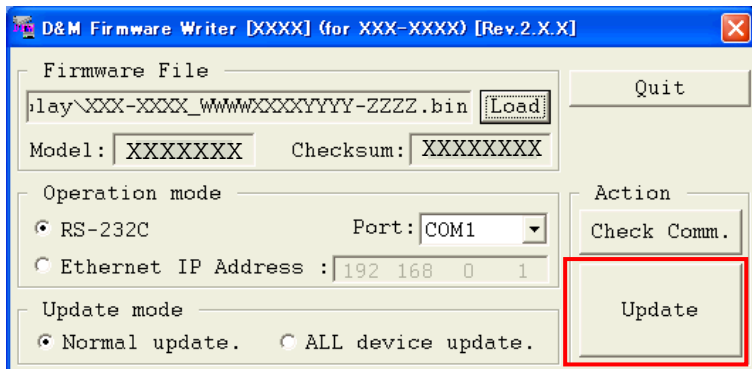


(2) Download the firmware from the specified download source to PC.

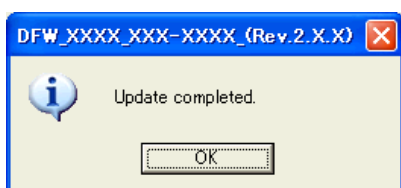


1.7. Complete the firmware updating

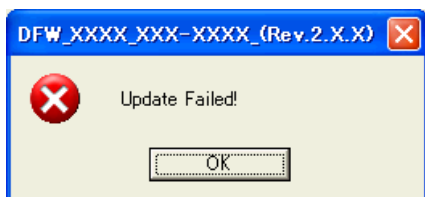
(1) Click the "Update" button.



(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. μ com/DSP Version display mode" (22 page).

2. How to update by DPMS

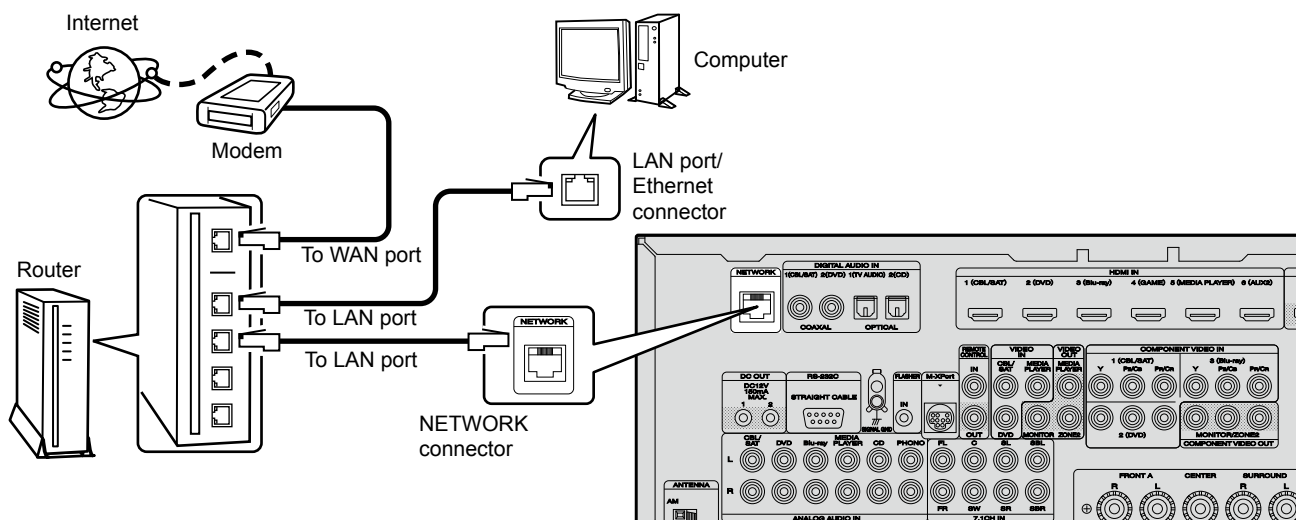
You can update the firmware by downloading the latest version from the Internet.

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.
- (5) Press the "SETUP" button to close the menu.

--- 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 SR7007 cannot be performed until updating is completed. Also, setting items of the GUI menu of SR7007 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 (Marantz Product Management Server).

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

Error Code	Details of Error code	Display	Coping strategies
11	Main CPU failed to receive firmware for rewriting sent from DM860A (when an error occurred)	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).	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.	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.	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.	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).	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).	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.	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.	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.	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.	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.	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.	Mode change failure of DM860A.	Reset and update again.
36	Log-in to DPMS ailed when firmware such as Sub CPU, DSP, FPGA, and PLD was rewritten.	Log-in to DPMS ailed when firmware such as Sub CPU, DSP, FPGA, and PLD was rewritten.	Carry out the update in an environment that has little network load.
37	Line, etc., is busy when logging into DPMS when firmware such as Sub CPU, DSP, FPGA, and PLD was rewritten.	Line, etc., is busy when logging into DPMS when firmware such as Sub CPU, DSP, FPGA, and PLD was rewritten.	Carry out the update in an environment that has little network load.
38	Connection to DPMS failed when firmware such as Sub CPU, DSP, FPGA, and PLD was rewritten..	Connection to DPMS failed when firmware such as Sub CPU, DSP, FPGA, and PLD 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 firmware such as Sub CPU, DSP, FPGA, and PLD was rewritten.	Connection fail 39	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.	Download fail 3A	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 firmware was downloaded or Main CPU was rewritten.	Download fail 3B	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 firmware was downloaded or Main CPU was rewritten.	Download fail 3C	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).	Connection fail 3D	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).	Connection fail 3E	Check the network connection. Carry out the update in an environment that has little network load.
3F	Mode change failure of DM860A.	Connection fail 3F	Reset and update again.
50	Log-in to DPMS failed when firmware such as Sub CPU, DSP and PLD was rewritten.	Sub ***min Login failed 50	Carry out the update in an environment that has little network load.
51	Line, etc., is busy when log-in into DPMS when firmware such as Sub CPU, DSP and PLD was rewritten.	Sub ***min Server is busy 51	Carry out the update in an environment that has little network load.
52	Connection to DPMS failed when firmware such as Sub CPU, DSP and PLD was rewritten.	Sub ***min Connection Fail 52	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 Sub CPU, DSP and PLD was rewritten.	Sub ***min Updating fail 54	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 Sub CPU, DSP and PLD, request was made for firmware data after the log-in to DPMS, but it timed out was rewritten.	Sub ***min Updating fail 55	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 Sub CPU, DSP and PLD was rewritten.	Sub ***min Download fail 56	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 rewriting firmware such as Sub CPU, DSP and PLD was rewritten.	Sub ***min Download fail 57	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 was received (connection failure) after the log-in to DPMS when firmware such as Sub CPU, DSP and PLD was rewritten.	Sub ***min Download fail 58	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 Sub CPU, DSP PLD etc.	Sub ***min Connection Fail 5A	Turn off and on the power. Updating starts automatically.

Error Code	Details of Error code	Display	Coping strategies
5B	NACK was received when "L" command sent to Sub CPU, DSP, PLD etc.	Sub CPU Updating fail 5B	Turn off and on the power. Updating starts automatically.
5C	Sub CPU, DSP, PLD etc. failed to receive firmware for rewriting sent from DM860A (when timed out).	Sub CPU Updating fail 5C	Turn off and on the power. Updating starts automatically.
5D	Sub CPU, DSP, PLD etc. failed to receive firmware for rewriting sent from DM860A (when an error occurred).	Sub CPU Updating fail 5D	Turn off and on the power. Updating starts automatically.
5E	Data in firmware such as Sub CPU, DSP and PLD for rewriting sent from DM860A was invalid (when a Check Sum error occurred).	Sub CPU Updating fail 5E	Turn off and on the power. Updating starts automatically.
5F	Invalid data in firmware such as Sub CPU, DSP and PLD for rewriting sent from DM860A was invalid (invalid data was received).	Sub CPU Updating fail 5F	Turn off and on the power. Updating starts automatically.
60	NACK was received when "P" command sent to Sub CPU, DSP, PLD etc.	Sub CPU Updating fail 60	Turn off and on the power. Updating starts automatically.
61	NACK was received when "I" command sent to Sub CPU, DSP, PLD etc.	Sub CPU UpdateCheckNG 61	Turn off and on the power. Updating starts automatically.
62	Start of Sub μ -com fail.	Sub CPU Updating fail 62	Turn off and on the power. Updating starts automatically.
80	Acquisition of serial flash data failed before serial flash was deleted.	GUI Updating fail 80	Turn off and on the power. Updating starts automatically.
81	Deleting data failed before serial flash was rewritten.	GUI Updating fail 81	Turn off and on the power. Updating starts automatically.
82	Receiving firmware for rewriting serial flash sent by DM860A failed (when timed out).	GUI Updating fail 82	Turn off and on the power. Updating starts automatically.
83	Receiving firmware for rewriting serial flash sent by DM860A failed (when an error).	GUI Updating fail 83	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).	GUI Updating fail 84	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).	GUI Updating fail 85	Turn off and on the power. Updating starts automatically.
86	The data verification was invalid after serial flash was rewritten.	GUI Updating fail 86	Turn off and on the power. Updating starts automatically.
A0	Acquisition of (Application Mode) IP address failed before rewriting DM860A was rewritten (AutoIP).	Ethernet Connection Fail A0	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
A1	Acquisition of (Application Mode) IP address failed before rewriting DM860A was rewritten (when timed out).	Ether IMG ***min ConnectionFailedA1	Check the network connection. Carry out the update in an environment that has little network load.
A2	Invalid login via DPMS access was notified DM860A related firmware was rewritten (Application Mode).	Ether IMG ***min Login failed A2	Check the network connection. Carry out the update in an environment that has little network load.
A3	Line congestion via DPMS access was notified DM860A related firmware was rewritten (Application Mode).	Ether IMG ***min Server is busyA3	Check the network connection. Carry out the update in an environment that has little network load.
A4	Connection failure via DPMS access was notified DM860A related firmware was rewritten (Application Mode).	Ether IMG ***min ConnectionFailedA4	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).	Ether IMG ***min Updating fail A6	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
A7	When DM860A related firmware was rewritten (Application Mode), request was made for firmware data after DPMS login but it timed out.	Ether IMG ***min Updating fail A7	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
AE	Firmware download error message received (when download fails) when DM860A related firmware was rewritten (Boot Loader Mode).	Ether IMG ***min Download fail AE	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
AF	Firmware download error message received (line congestion) when DM860A related firmware was rewritten (Boot Loader Mode).	Ether IMG ***min Download fail AF	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B0	Firmware download error message received (connection failure) when DM860A related firmware was rewritten (Boot Loader Mode).	Ether IMG ***min Download fail B0	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B1	Firmware download error (timed out) when DM860A related firmware was rewritten.	Ether IMG ***min Download fail B1	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B2	Error message received when DM860A related firmware was rewritten	Ether IMG ***min Updating fail B2	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.

Target of device when firmware updated.

3. How to update by USB Memory

3.1. Connecting to the Network

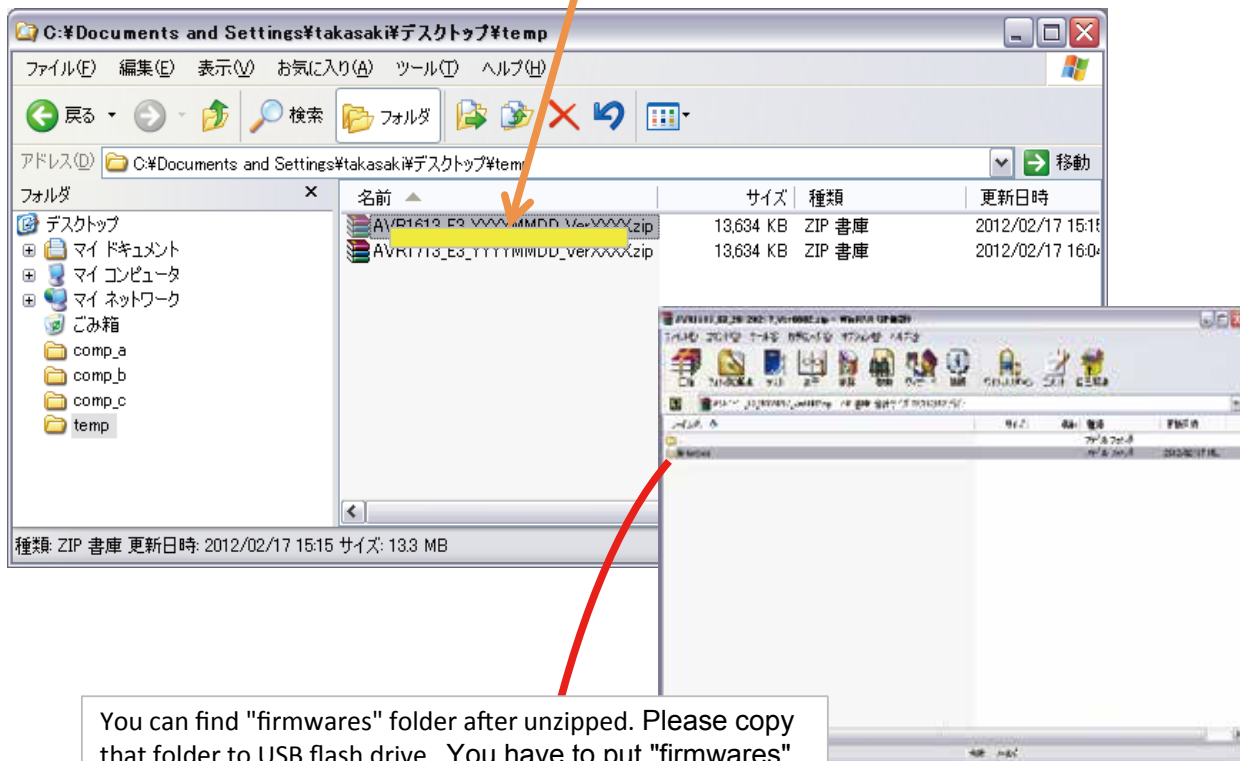
(1) Requirements

- 79

3.2. Unzip Download File

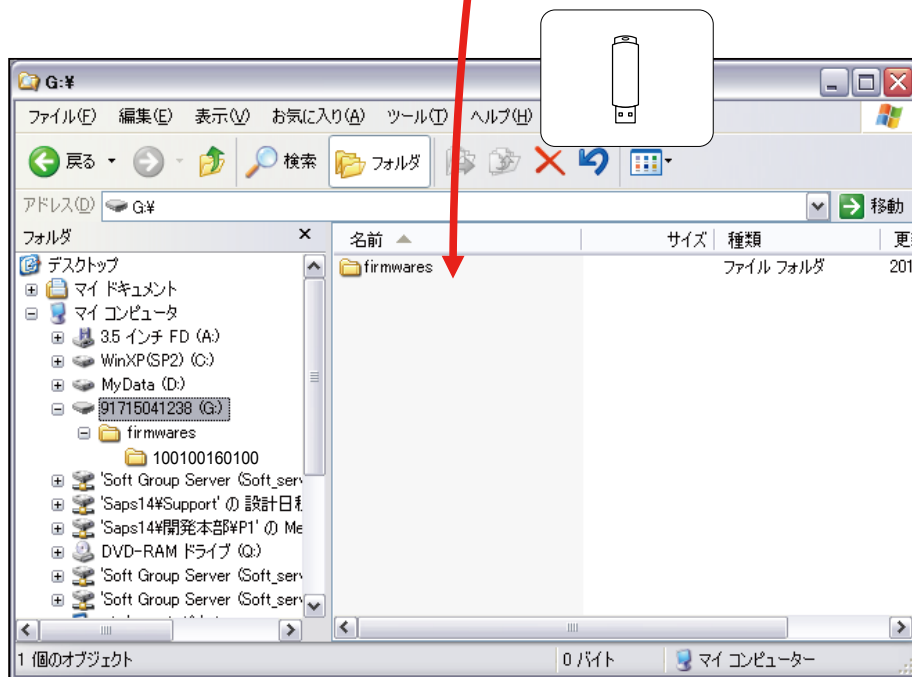
Please unzip the downloaded file on PC.

SR7007 U USB_SR7007U_100100160100-0001.zip



copy to USB flash drive

3.3. Copy for USB flash drive



USB location is below

USB memory root

Model Name	Model Area	Product ID
SR7007	North America (U)	100100160100
	Europe (N)	100100160200
	China (K)	100100160500

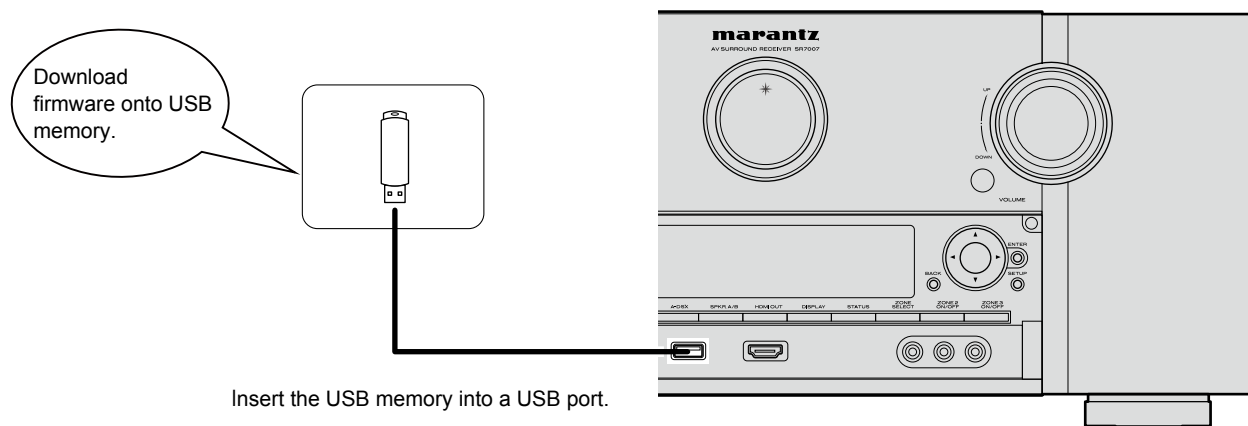
+ firmwares

- + 100100160100
- + APLD.bin
- + DSP.bin
- + enc_update.xml
- + GUI.bin
- + IMG.bcd
- + MAIN.bin
- + SBL.bcd
- + SUB.bin



3.4. Insert the USB memory into a USB port

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



3.5. Start update

Turn on the power of this unit in the "status" + "HDMI OUT" button.

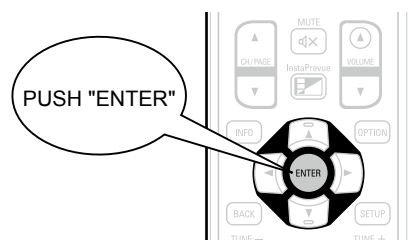
3.6. "USB Update Start" on FL Display

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

FL Display

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

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



Then start Firmware Update.

FL Display

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

3.8. Finish firmware update

FL display shows the following message.

FL Display

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

--- Cautions on Firmware Update ---

- Do not remove a USB memory until updating is completed.
- Do not turn off the power until updating is completed.

Approximately 1 hour is required for the updating procedure to be completed.

Once updating starts, normal operations on the this unit cannot be performed until updating is completed. Also, setting items of the GUI menu of this unit or setting items of the image adjustment may be initialized.

Note down the settings before updating, and set them again after updating.

3.9. 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.	ConnectionFail101	Disconnect and connect the USB memory.
02	No FirmwareFile in USB.	FilesNotFound02	Make sure that the FirmwareFile is in the USB memory.
03	FirmwareFile in USB for unsupported Model name/area	NotMatchFirm03	Check the supported Model name/area for the FirmwareFile.
04	Failed to obtain entire Firmware information.	ConnectionFail104	Start the USB Update again.
05	TimeOut while obtaining entire Firmware information	ConnectionFail105	Start the USB Update again.
06	Failed to obtain individual Firmware information.	ConnectionFail106	Start the USB Update again.
07	TimeOut while obtaining individual Firmware information	ConnectionFail107	Start the USB Update again.
08	Error notification received while requesting FirmwareInfo.	ConnectionFail108	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 "ON/STANDBY (⏻)" button for five seconds.
09	TimeOut while obtaining Firmware information	ConnectionFail109	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 "ON/STANDBY (⏻)" button for five seconds.
0A	Unable to detect USB for FirmwareDownload.	ConnectionFail10A	Disconnect and connect the USB memory.
0B	No FirmwareFile for FirmwareDownload.	FilesNotFound0B	Disconnect and connect the USB memory.
0C	Received value with invalid PackageVersion.	ConnectionFail10C	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 "ON/STANDBY (⏻)" button for five seconds.
10	No UpdatePacket received from DM860A (TimeOut).	Updating fail110	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 "ON/STANDBY (⏻)" button for five seconds.
11	Abnormal data in UpdatePacket received from DM860A (FormatError).	Updating fail111	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 "ON/STANDBY (⏻)" button for five seconds.
12	Abnormal data in UpdatePacket received from DM860A (ChecksumError).	Updating fail112	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 "ON/STANDBY (⏻)" button for five seconds.
13	BlockErase failed before rewriting Main.	Erase fail113	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 "ON/STANDBY (⏻)" button for five seconds.
14	BlockWrite failed while rewriting Main.	Updating fail114	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 "ON/STANDBY (⏻)" button for five seconds.
15	Error in Verify after rewriting Main (ChecksumError).	UpdateCheckNG15	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 "ON/STANDBY (⏻)" button for five seconds.
20	Unable to detect USB after SBLMode.	ConnectionFail120	Disconnect and connect the USB memory.

Error Code	Details of Error code	Display	Coping strategies
21	No FirmwareFile in USB after SBLMode.	FilesNotFound 21	Disconnect and connect the USB memory.
22	FirmwareFile in USB after SBLMode for unsupported Model name/area	NotMatchFirm 22	Check the supported Model name/area for the FirmwareFile.
23	Failed to obtain entire Firmware information after SBLMode.	ConnectionFail123	Disconnect and connect the USB memory.
24	TimeOut while obtaining entire Firmware information after SBLMode	ConnectionFail124	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 "ON/STANDBY (⏻)" button for five seconds.
25	Failed to transit to SBLMode.	ConnectionFail125	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 "ON/STANDBY (⏻)" button for five seconds.
26	TimeOut in Download (writing to SDRAM) for FirmwareDownload	Download fail 26	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 "ON/STANDBY (⏻)" button for five seconds.
27	Failed to write to EEPROM after SBLMode.	ConnectionFail127	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 "ON/STANDBY (⏻)" button for five seconds.
36	Unable to detect USB.	ConnectionFail136	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the POWER button for five seconds.
37	No FirmwareFile in USB.	FilesNotFound 37	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 "ON/STANDBY (⏻)" button for five seconds.
38	FirmwareFile in USB for unsupported Model name/area	NotMatchFirm 38	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 "ON/STANDBY (⏻)" button for five seconds.
39	TimeOut in USBCheck	ConnectionFail139	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 "ON/STANDBY (⏻)" button for five seconds.
3A	Unable to detect USB for FirmwareDownload.	ConnectionFail13A	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 "ON/STANDBY (⏻)" button for five seconds.
3B	No FirmwareFile for FirmwareDownload.	FilesNotFound 3B	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
3F	Failed to transit to SBLMode.	ConnectionFail13F	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 "ON/STANDBY (⏻)" button for five seconds.
50	Unable to detect USB.	ConnectionFail150	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 "ON/STANDBY (⏻)" button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
51	No FirmwareFile in USB.	FilesNotFound 51	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
52	FirmwareFile in USB for unsupported Model name/area	NotMatchFirm 52	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
54	Error notification received while requesting FirmwareInfo.	Updating fail 54	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
55	TimeOut while obtaining Firmware	Updating fail 55	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
56	Unable to detect USB for FirmwareDownload.	ConnectionFail 56	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 "ON/STANDBY (⏻)" button for five seconds.
57	No FirmwareFile for FirmwareDownload.	FilesNotFound 57	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
5A	Invalid DeviceID in response or no response from Sub for C command.	ConnectionFail 5A	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 "ON/STANDBY (⏻)" button for five seconds.
5B	NACK received in response or no response from Sub for L command.	Updating fail 5B	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
5C	No UpdatePacket received from DM860A (TimeOut).	Updating fail 5C	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "ON/STANDBY (⏻)" button for five seconds.
5D	Abnormal data in UpdatePacket received from DM860A (FormatError).	Updating fail 5D	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 "ON/STANDBY (⏻)" button for five seconds.
5E	Abnormal data in UpdatePacket received from DM860A (ChecksumError).	Updating fail 5E	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 "ON/STANDBY (⏻)" button for five seconds.
5F	Abnormal data in UpdatePacket received from DM860A (DataLength/DataNo).	Updating fail 5F	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 "ON/STANDBY (⏻)" button for five seconds.
60	NACK received in response or no response from Sub for P command.	Updating fail 60	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 "ON/STANDBY (⏻)" 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.	UpdateCheckNG 61	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 "ON/STANDBY (⏻)" button for five seconds.
63	Failed to transit to ApplicationMode.	Updating fail 63	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 "ON/STANDBY (⏻)" button for five seconds.
64	Failed to transit to BootLoaderMode.	Updating fail 64	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 "ON/STANDBY (⏻)" button for five seconds.
80	WriteEnableLatchBit not set in Read after issuing WREN command.	Updating fail 80	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 "ON/STANDBY (⏻)" button for five seconds.
81	BlockErase failed in Read after issuing BE command.	Updating fail 81	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 "ON/STANDBY (⏻)" button for five seconds.
82	No UpdatePacket received from DM860A (TimeOut).	Updating fail 82	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 "ON/STANDBY (⏻)" button for five seconds.
83	Abnormal data in UpdatePacket received from DM860A (FormatError).	Updating fail 83	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 "ON/STANDBY (⏻)" button for five seconds.
84	Abnormal data in UpdatePacket received from DM860A (ChecksumError).	Updating fail 84	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 "ON/STANDBY (⏻)" button for five seconds.
85	Abnormal data in UpdatePacket received from DM860A (DataLength/DataNo).	Updating fail 85	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 "ON/STANDBY (⏻)" button for five seconds.
86	Mismatched CheckSum in CheckSum comparison after rewriting.	Updating fail 86	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 "ON/STANDBY (⏻)" button for five seconds.
A2	Unable to detect USB.	ConnectionFail A2	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 "ON/STANDBY (⏻)" button for five seconds.
A3	No FirmwareFile in USB.	FileNotFound A3	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 "ON/STANDBY (⏻)" button for five seconds.
A4	FirmwareFile in USB for unsupported Model name/area	NotMatchFirm A4	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 "ON/STANDBY (⏻)" button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
A6	Error notification received while requesting FirmwareInfo.	Updating fail A6	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 "ON/STANDBY (⏻)" button for five seconds.
A7	TimeOut while obtaining Firmware	Updating fail A7	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 "ON/STANDBY (⏻)" button for five seconds.
AE	Unable to detect USB for FirmwareDownload.	ConnectionFailure	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 "ON/STANDBY (⏻)" button for five seconds.
AF	No FirmwareFile for FirmwareDownload.	FileNotFound AF	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 "ON/STANDBY (⏻)" button for five seconds.
B1	TimeOut in Download (writing to SDRAM) for FirmwareDownload	Download fail B1	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 "ON/STANDBY (⏻)" button for five seconds.
B2	Error notification received after rewriting DM860A Firm.	Updating fail B2	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 "ON/STANDBY (⏻)" button for five seconds.
B3	Error in FirmwareUpdate (TimeOut).	Updating fail B3	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 "ON/STANDBY (⏻)" button for five seconds.
B4	Failed to transit to BootLoaderMode.	Updating fail B4	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 "ON/STANDBY (⏻)" button for five seconds.
B5	Failed to transit to ApplicationMode.	Updating fail B5	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 "ON/STANDBY (⏻)" 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.

3.10. Device display during firmware update

Display of target device during firmware update.

Target of device	Display	Error cpde
Main	Main ***min Upd ating **%	08~0C 10~15 22~24 36~3E
Sub	Sub ***min Upd ating **%	50~52 54~58 5A~62
Audio PLD	APLD ***min Upd ating **%	50~52 54~58 5A~62
DSP	DSP ***min Upd ating **%	50~52 54~58 5A~62
GUI Serial Flash	GUI ***min Upd ating **%	50~52 54~58 5A~62 80~86
DM860A Boot Loader	Ether SBL ***min Upd ating ***	A0~A4 A6~A7 AE~B5
DM860A Image	Ether IMG ***min Upd ating ***	A0~A4 A6~A7 AE~B5

Confirming the firmware's number after upgraded

After updating the firmware, check the version. Refer to "1. μ com/DSP Version display mode" (22 page).

ADJUSTMENT

Audio Section

Adjusting Idling Current

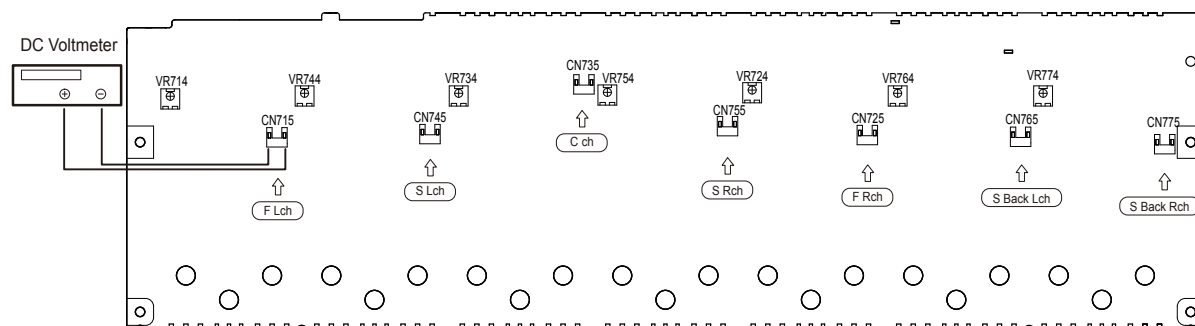
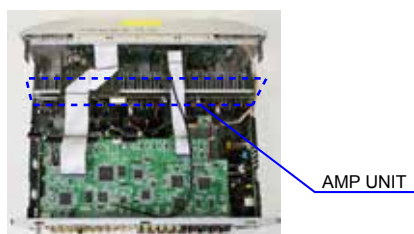
Required measurement equipment: DC Voltmeter

1. Preparation

- (1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room temperature 15 °C ~ 30 °C (59 °F ~ 86 °F).
- (2) Presetting
 - POWER (Power source switch) STANDBY
 - SPEAKER (Speaker terminal) No load
(Do not connect speaker, dummy resistor, etc.)

2. Adjustment

- (1) Remove top cover and set VR714, VR724, VR734, VR744, VR754, VR764, VR774 on 7CH AMP UNIT at fully counterclockwise (c) position.
- (2) Connect DC Voltmeter to test points (FRONT-Lch: CN715, FRONT-Rch: CN725, CENTER ch: CN735, SURROUND-Lch: CN745, SURROUND-Rch: CN755, SURROUND-BACK Lch: CN765, SURROUND-BACK Rch: CN775).
- (3) Connect power cord to AC Line, and turn power switch "ON".
- (4) Presetting.
 - MASTER VOLUME : "----" counterclockwise (Ω min.)
 - SPEAKER (Speaker terminal) : No load
(Do not connect speaker, dummy resistor, etc.)
 - MODE : MCH STEREO
 - FUNCTION : DVD
- (5) Within 2 minutes after the power on, turn VR714 clockwise (x) to adjust the TEST POINT voltage to $6.5\text{mV} \pm 0.5\text{mV DC}$.
- (6) After 10 minutes from the preset above, turn VR714 to set the voltage to $8\text{mV} \pm 0.5\text{mV DC}$.
- (7) Adjust the Variable Resistors of other channels in the same way.



SURROUND MODES AND PARAMETERS

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					
	Front L/R	Center	Surround L/R	Surround back L/R	Front height L/R	Front wide L/R
DIRECT/PURE DIRECT (2channel)*1	○					
STEREO	○	⊙	⊙	⊙*3	⊙*3	⊙*3
MULTI CH IN	○					
DOLBY PRO LOGIC IIz	○	⊙	⊙	⊙	⊙*4	
DOLBY PRO LOGIC IIx	○	⊙	⊙		⊙	
DOLBY PRO LOGIC II	○	⊙	⊙	⊙		
DOLBY PRO LOGIC	○	⊙	⊙			
DOLBY PRO LOGIC II A-DSX	○	⊙	⊙		⊙*5	⊙*6
DOLBY PRO LOGIC A-DSX	○	⊙	⊙		⊙*5	⊙*6
DTS NEO6	○	⊙	⊙	⊙		
DTS NEO6 A-DSX	○	⊙	⊙		⊙*5	⊙*6
Audyssey DSX®	○	⊙	⊙		⊙*5	⊙*6
DOLBY DIGITAL	○	⊙	⊙	⊙	⊙*4	
DOLBY DIGITAL Plus	○	⊙	⊙	⊙	⊙*4	
DOLBY TrueHD	○	⊙	⊙	⊙	⊙*4	
DTS SURROUND	○	⊙	⊙	⊙	⊙*4	
DTS 96/24	○	⊙	⊙	⊙	⊙*4	
DTS-HD	○	⊙	⊙	⊙	⊙*4	
DTS Express	○	⊙	⊙	⊙	⊙*4	
MULTI CH STEREO	○	⊙	⊙	⊙*7	⊙*8	⊙*9
VIRTUAL	○					

- *1 During playback in PURE DIRECT mode, the surround parameters are the same as in DIRECT mode.
- *2 Only when "Subwoofer Mode" is set to "LFE+Main", sound is output from the subwoofer.
- *3 A signal for each channel contained in an input signal is output as audio.
- *4 Audio is output from the front height speaker when the set sound mode name contains "+PLIZ". For information on how to check the sound mode.
- *5 Audio is output from the front height speaker when "Assign Mode" in the menu is set to "Main Only" and "Audyssey DSX®" is set to "On".
- *6 Audio is output from the front wide speaker when "Assign Mode" in the menu is set to "Main Only" and "Audyssey DSX®" is set to "On".
- *7 Audio is output from the surround back speaker when "Assign Mode" in the menu is set to "Main Only" and "Speaker Select" is set to "S. Back".
- *8 Audio is output from the front height speaker when "Assign Mode" in the menu is set to "Main Only" and "Speaker Select" is set to "F. Height".
- *9 Audio is output from the front wide speaker when "Assign Mode" in the menu is set to "Main Only" and "Speaker Select" is set to "F. Wide".

Sound Mode	Surround Parameter								
	Home Theater EQ *10	Loudness Management *11	Dynamic Compression *12	Low Frequency Effects *13	Height Gain *14	Speaker Select *15	PRO LOGIC II/IIx Music mode only		NEO 6 Music mode only
							Panorama	Dimension	
DIRECT/PURE DIRECT (2channel) *1		☐	☐						
DIRECT/PURE DIRECT (Multi-channel) *1		☐	☐	☐					
STEREO		☐	☐	☐					
MULTI CH IN	☐ *16								
DOLBY PRO LOGIC IIz	☐	☐	☐						
DOLBY PRO LOGIC IIx	☐ *17	☐	☐						
DOLBY PRO LOGIC II	☐ *18	☐	☐		☐		☐	☐	
DOLBY PRO LOGIC	☐ *18	☐	☐		☐		☐	☐	
DOLBY PRO LOGIC II A-DSX	☐ *18	☐	☐				☐	☐	
DOLBY PRO LOGIC A-DSX	☐ *18	☐	☐				☐	☐	
DTS NEO:6	☐ *17	☐	☐						☐
DTS NEO:6 A-DSX	☐ *17	☐	☐						☐
Audyssey DSX®	☐	☐	☐	☐					
DOLBY DIGITAL	☐ *16		☐	☐	☐				
DOLBY DIGITAL Plus	☐ *16		☐	☐	☐				
DOLBY TrueHD	☐ *16	☐	☐	☐	☐				
DTS SURROUND	☐ *16		☐	☐	☐				
DTS 96/24	☐ *16			☐	☐				
DTS-HD	☐ *16			☐	☐				
DTS Express	☐ *16			☐	☐				
MULTI CH STEREO	☐	☐	☐	☐		☐			
VIRTUAL		☐	☐	☐					

*1 During playback in PURE DIRECT mode, the surround parameters are the same as in DIRECT mode.

*10 This item cannot be selected during DSD (SA-CD) signal playback.

*11 This item can be selected when a Dolby TrueHD signal is played.

*12 This item can be selected when a Dolby Digital or DTS signal is played.

*13 This item can be selected when a Dolby Digital or DTS signal or DVD-Audio is played.

*14 This setting is available when the set sound mode name contains "+PLIIz". For information on how to check the sound mode.

*15 This item can be selected when "Assign Mode" is set to "Main Only".

*16 This setting is unavailable when the set sound mode name contains "+PLIIx Music". For information on how to check the sound mode.

*17 This setting is possible when the sound mode is "PLIIx Movie" or "DTS NEO:6 Cinema".

*18 This setting is possible when the sound mode is "PLII Movie" or "Pro Logic".

- *1 During playback in PURE DIRECT mode, the surround parameters are the same as in DIRECT mode.
- *10 This item cannot be selected during DSD (SA-CD signal) playback.
- *11 This item can be selected when a Dolby TrueHD signal is played.
- *12 This item can be selected when a Dolby Digital or DTS signal is played.
- *13 This item can be selected when a Dolby Digital or DTS signal or DVD-Audio is played.
- *14 This setting is available when the set sound mode name contains "PLIIz". For information on how to check the sound mode.
- *15 This item can be selected when "Assign Mode" is set to "Main Only".
- *16 This setting is unavailable when the set sound mode name contains "+PLIIx Music". For information on how to check the sound mode.
- *17 This setting is possible when the sound mode is "PLIIx Movie" or "DTS NEO6 Cinema".
- *18 This setting is possible when the sound mode is "PLII Movie" or "Pro Logic".

Sound Mode	Subwoofer	Tone *19	Audyssey			M-DAX *22
			MultEQ® XT *20	Dynamic EQ *21	Dynamic Volume *21	Audyssey/DSX® *20
DIRECT/PURE DIRECT (2channel) *1	☐ *5					
DIRECT/PURE DIRECT (Multi-channel) *1	☐					
STEREO	☐					
MULTI CH IN	☐					
DOLBY PRO LOGIC IIz	☐					
DOLBY PRO LOGIC IIx	☐					
DOLBY PRO LOGIC II	☐					
DOLBY PRO LOGIC	☐					
DOLBY PRO LOGIC II A-DSX	☐					
DOLBY PRO LOGIC A-DSX	☐					
DTS NEO:6	☐					
DTS NEO:6 A-DSX	☐					
Audyssey DSX®	☐					
DOLBY DIGITAL	☐					
DOLBY DIGITAL Plus	☐					
DOLBY TrueHD	☐					
DTS SURROUND	☐					
DTS 96/24	☐					
DTS-HD	☐					
DTS Express	☐					
MULTI CH STEREO	☐					
VIRTUAL	☐					

- *1 During playback in PURE DIRECT mode, the surround parameters are the same as in DIRECT mode.
- *5 Only when "Subwoofer Mode" is set to "LFE+Main" sound is output from the subwoofer.
- *19 This item cannot be set when "Dynamic EQ" is set to "On".
- *20 This item cannot be set for HD audio exceeding a frequency of 96kHz or during DSD(SA-CD) signal playback.
- *21 This item cannot be set when "MultEQ® XT" is set to "Off" or "Graphic EQ".
- *22 This item can be set when the input signal is analog, PCM 48 kHz or 44.1 kHz.
- *23 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																Super Audio CD	
		ANALOG	PCM		DTS-HD		DTS			DOLBY		DOLBY DIGITAL				DOLBY DIGITAL (2ch)	DSD (multi ch)	DSD (2ch)	
			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)
DTS SURROUND																			
DTS-HD MSTR	*1			●															
DTS-HD HI RES	*1				●														
DTS ES DSCRT6.1	*2*3					●													
DTS ES MTRX6.1	*2*3							●											
DTS SURROUND	*1					○													
DTS 96/24	*1									●									
DTS (–HD) + PLIIx MOVIE	*2*4			○	○		○		○		○								
DTS (–HD) + PLIIx MUSIC	*2*3			○	○		○		○		○								
DTS (–HD) + PLIIz	*2*5			○	○		○		○		○								
DTS EXPRESS	*1					●													
DTS (–HD) + NEO:6	*2*3			○	○		○		○		○								
DTS NEO:6 CINEMA	*1	○	○													○	○	○	○
DTS NEO:6 MUSIC	*1	○	○													○	○	○	○
DTS NEO:6 CINEMA A-DSX		○	○													○	○	○	○
DTS NEO:6 MUSIC A-DSX		○	○													○	○	○	○
Audyssey DSX®				○	○		○	○	○										

*1 If "Audyssey DSX®" is set to "On", the Audyssey DSX® effect is added to the sound mode marked with *1.

*2 This sound mode can be selected when "Assign Mode" is set to "Main Only".

*3 If "Speaker Config." – "Surr. Back" is set to "None", this sound mode cannot be selected.

*4 If "Speaker Config." – "Surr. Back" is set to "1 spkr" or "None", this sound mode cannot be selected.

*5 If "Speaker Config." – "Front Height" is set to "None", this sound mode cannot be selected.

Sound Mode	NOTE	Input signal types and formats															Super Audio CD		
		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)
DOLBY SURROUND																			
DOLBY TrueHD	* 1												●						
DOLBY DIGITAL +	* 1												●						
DOLBY DIGITAL EX	* 2* 3													○					
DOLBY (D+) (HD) +EX	* 2* 3														○				
DOLBY DIGITAL	* 1																		
DOLBY (D) (D+) (HD) +PLI⅓ MOVIE	* 2* 4												○			●			
DOLBY (D) (D+) (HD) +PLI⅓ MUSIC	* 2* 3												○			○			
DOLBY (D) (D+) (HD) +PLI⅓z	* 5												○			○			
DOLBY PRO LOGIC II⅓ MOVIE	* 2* 3	○		○													○		○
DOLBY PRO LOGIC II⅓ MUSIC	* 2* 3	○		○													○		○
DOLBY PRO LOGIC II⅓ GAME	* 2* 3	○		○													○		○
DOLBY PRO LOGIC IIz	* 2* 5	○		○													○		○
DOLBY PRO LOGIC II MOVIE	* 1	○		○													○		○
DOLBY PRO LOGIC II MUSIC	* 1	○		○													○		○
DOLBY PRO LOGIC II GAME	* 1	○		○													○		○
DOLBY PRO LOGIC	* 1	○		○													○		○
DOLBY PRO LOGIC II MOVIE A-DSX		○		○													○		
DOLBY PRO LOGIC II MUSIC A-DSX		○		○													○		
DOLBY PRO LOGIC II GAME A-DSX		○		○													○		
DOLBY PRO LOGIC A-DSX		○		○									○				○		
Audyssey DSX®													○				○		

*1 If "Audyssey DSX®" is set to "On", the Audyssey DSX® effect is added to the sound mode marked with *1.

*2 This sound mode can be selected when "Assign Mode" is set to "Main Only".

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*4 If "Speaker Config." – "Surr. Back" is set to "1 spkr" or "None", this sound mode cannot be selected.

*5 If "Speaker Config." – "Front Height" is set to "None", this sound mode cannot be selected.

Sound Mode	NOTE	Input signal types and formats														Super Audio CD		
		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)	DSD (multi ch)
MULTI CH IN																		
MULTI CH IN	*1	●															○	○
MULTI CH IN + PLIIx MOVIE	*2 *4	○															○	○
MULTI CH IN + PLIIx MUSIC	*2 *3	○															○	○
MULTI CH IN + PLIIz	*2 *5	○															○	○
MULTI CH IN + Dolby EX	*2 *3	○															○	○
MULTI CH IN 7.1	*2 *3	● (7.1)																
Audyssey DSX®		○																
DIRECT																		
DIRECT		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
PURE DIRECT		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
PURE DIRECT		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Original surround mode		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MULTI CH STEREO		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VIRTUAL		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
STEREO																		
STEREO		●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

*1 If "Audyssey DSX®" is set to "On", the Audyssey DSX® effect is added to the sound mode marked with *1.

*2 This sound mode can be selected when "Assign Mode" is set to "Main Only".

*3 If "Speaker Config." – "Surr. Back" is set to "None", this sound mode cannot be selected.

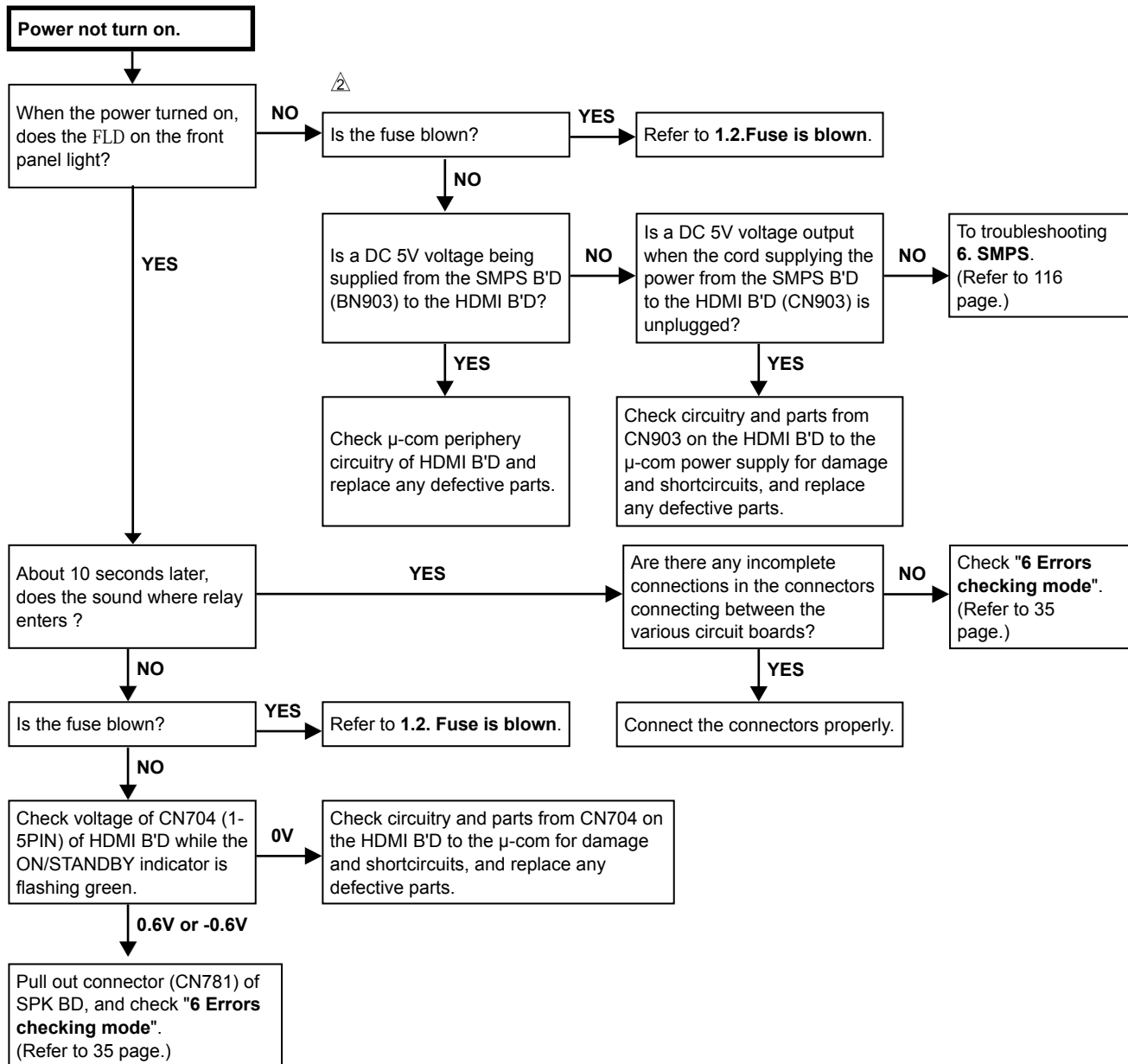
*4 If "Speaker Config." – "Surr. Back" is set to "1spkr" or "None", this sound mode cannot be selected.

*5 If "Speaker Config." – "Front Height" is set to "None", this sound mode cannot be selected.

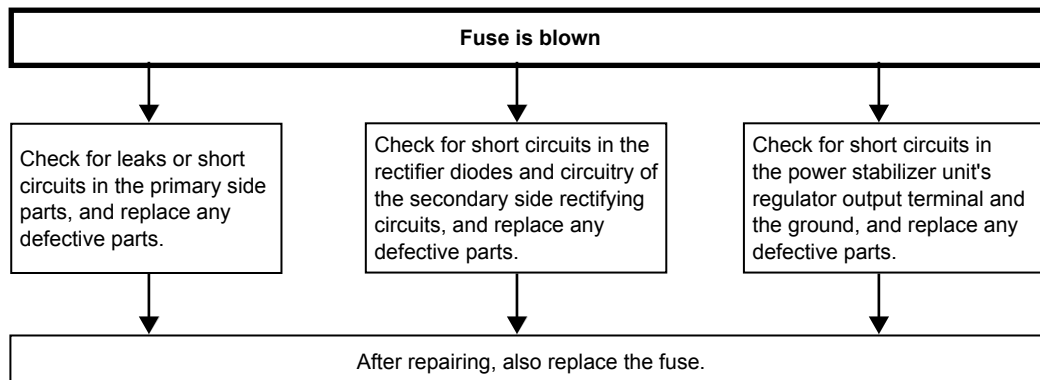
TROUBLE SHOOTING

1. POWER

1.1. Power not turn on



1.2. Fuse is blown



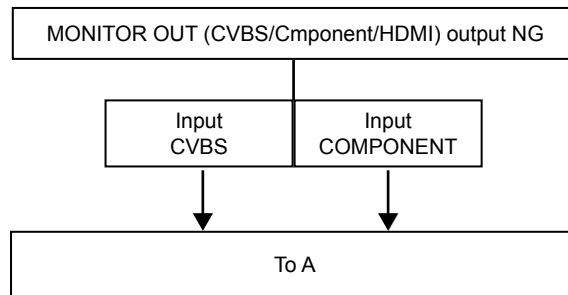
2. Analog video

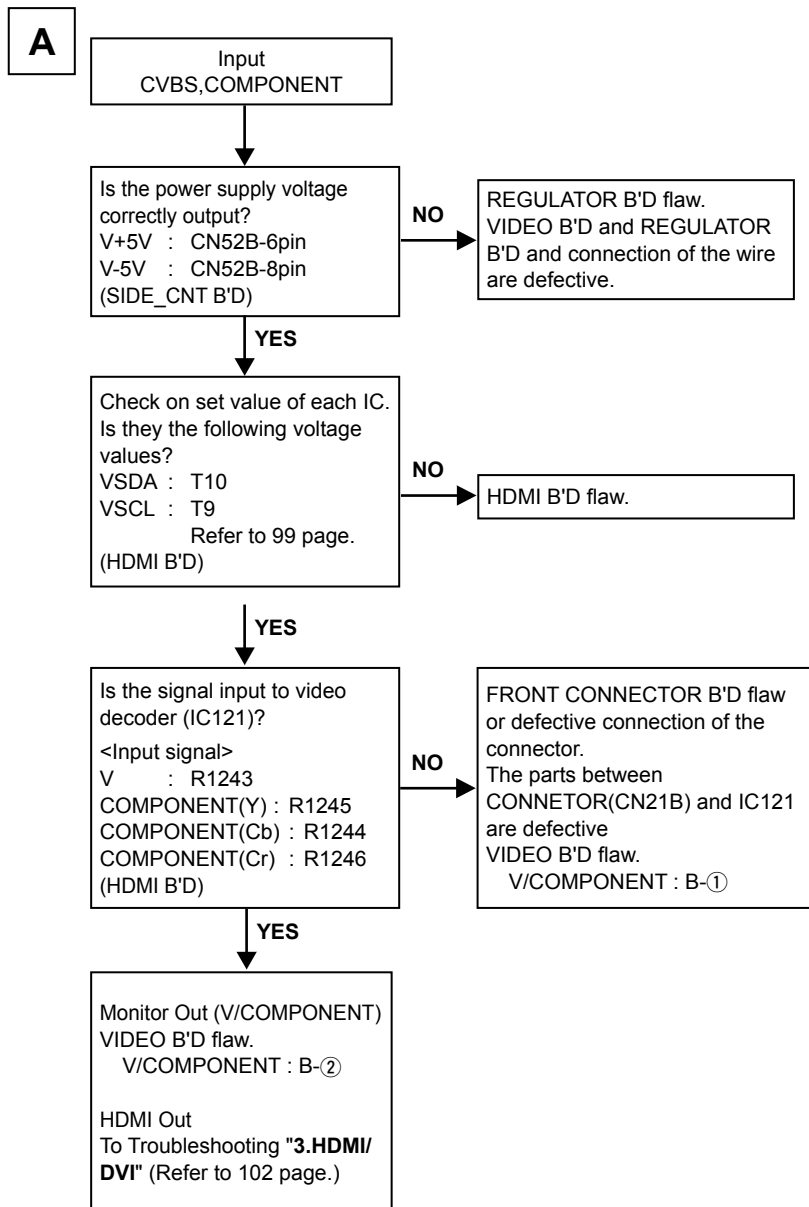
Perform the operation below beforehand.

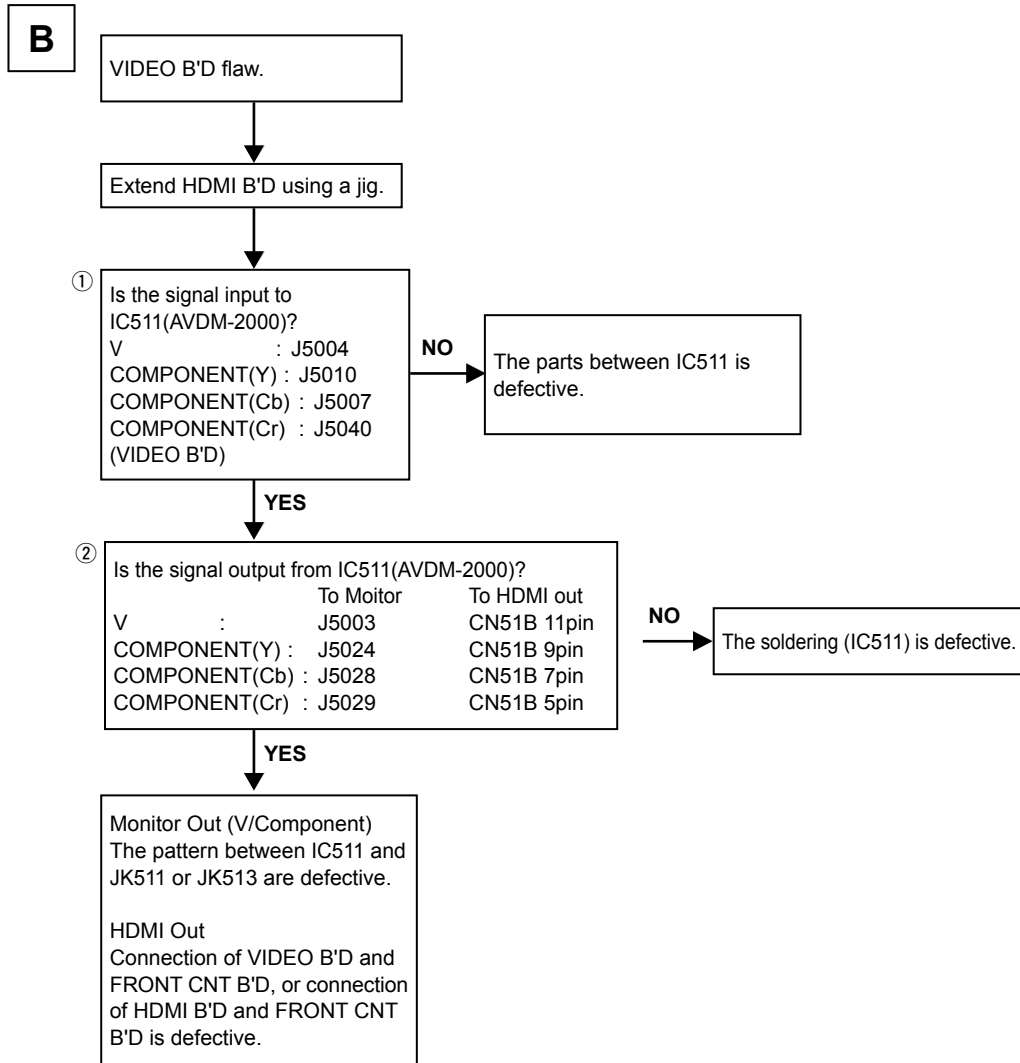
- ※ Check that the connection cable and the Monitor are normal.
- ※ Set VIDEO CONVERT ON.
- ※ Set COMPONENT signal to 480i.
- ※ Set Function to the following.

V : SAT

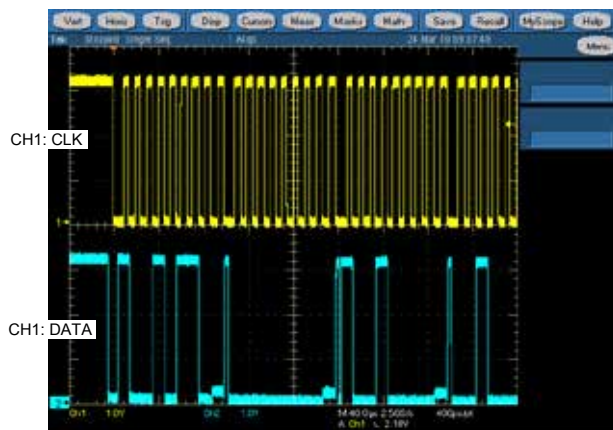
COMPONENT : SAT



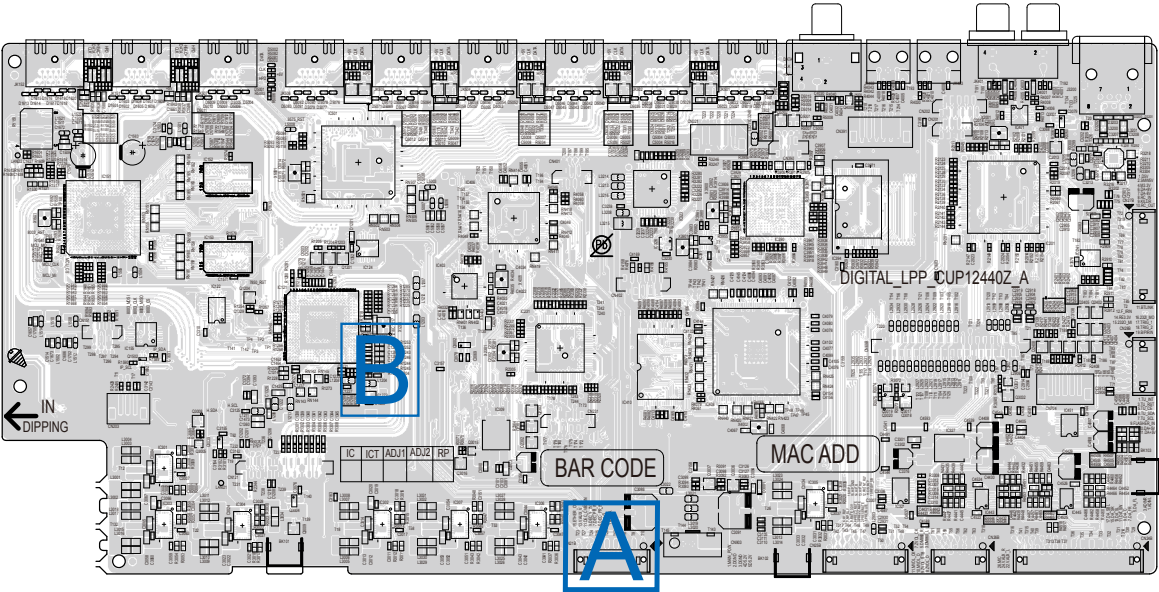




I2C communication wave form

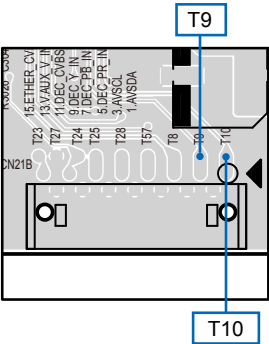


HDMI test point

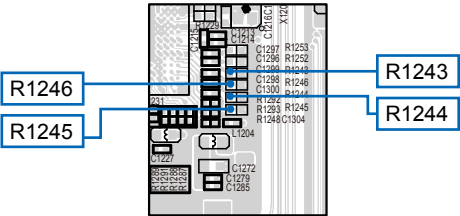


(COMPONENT SIDE)

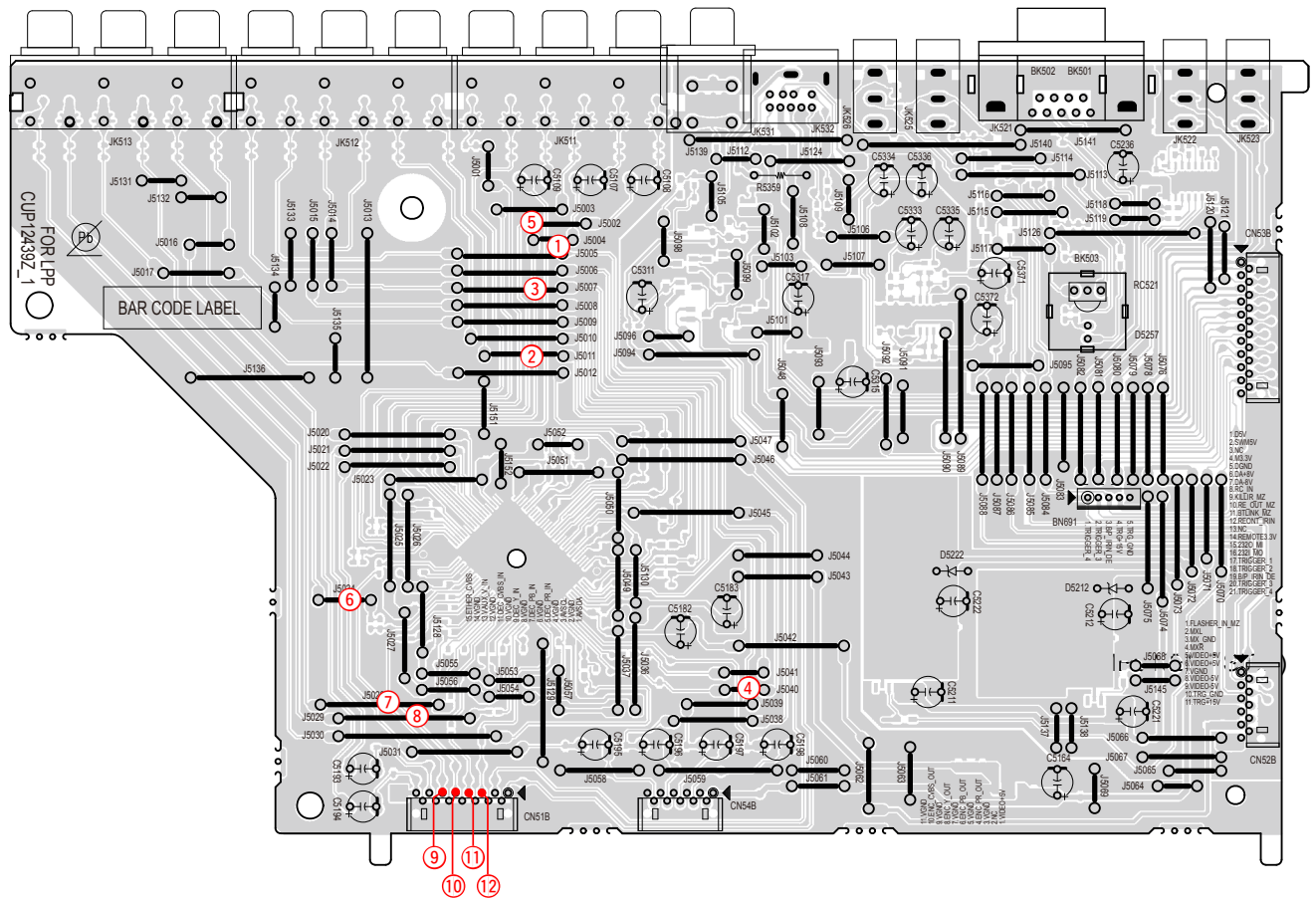
Detail A



Detail B



VIDEO test point

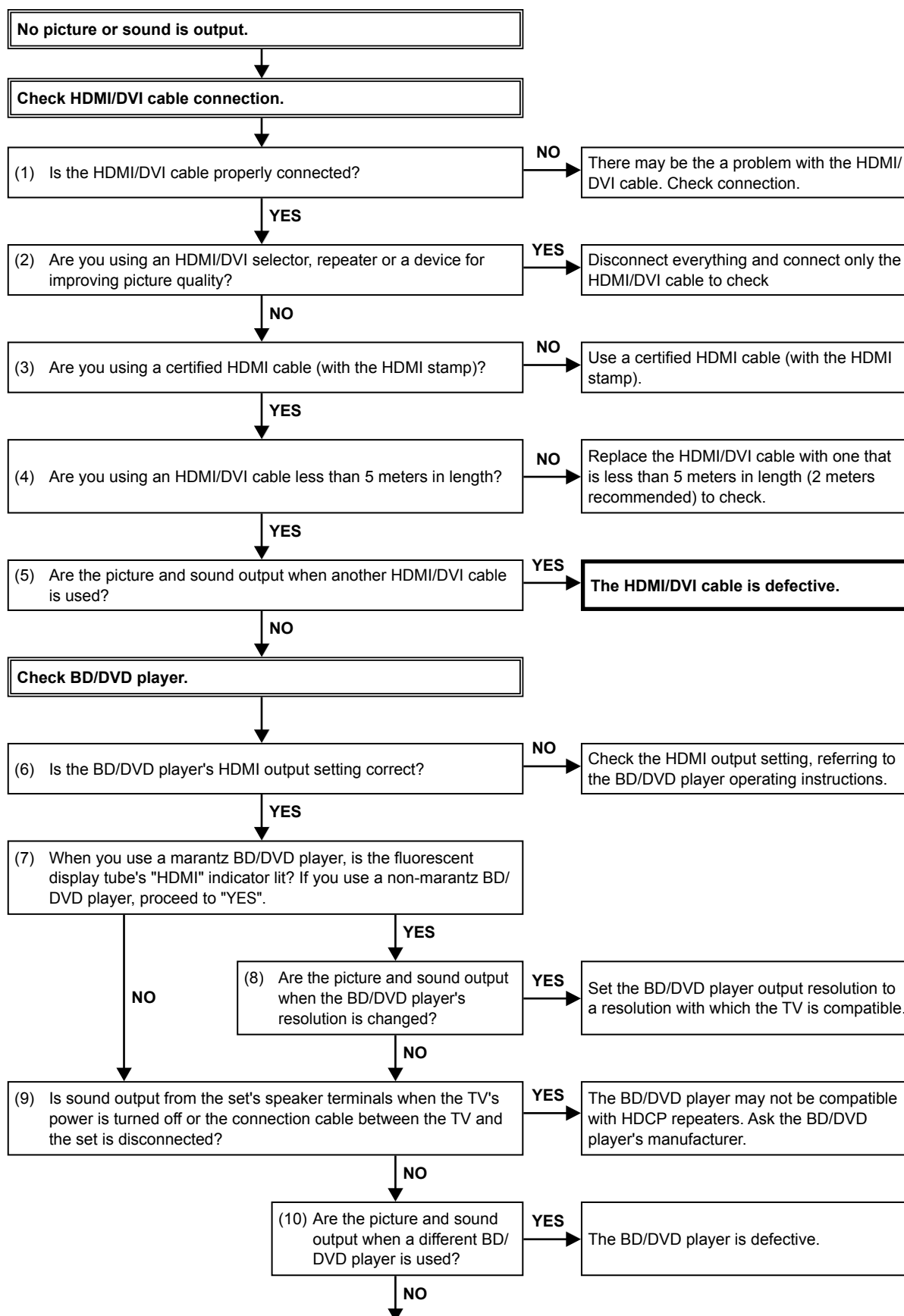


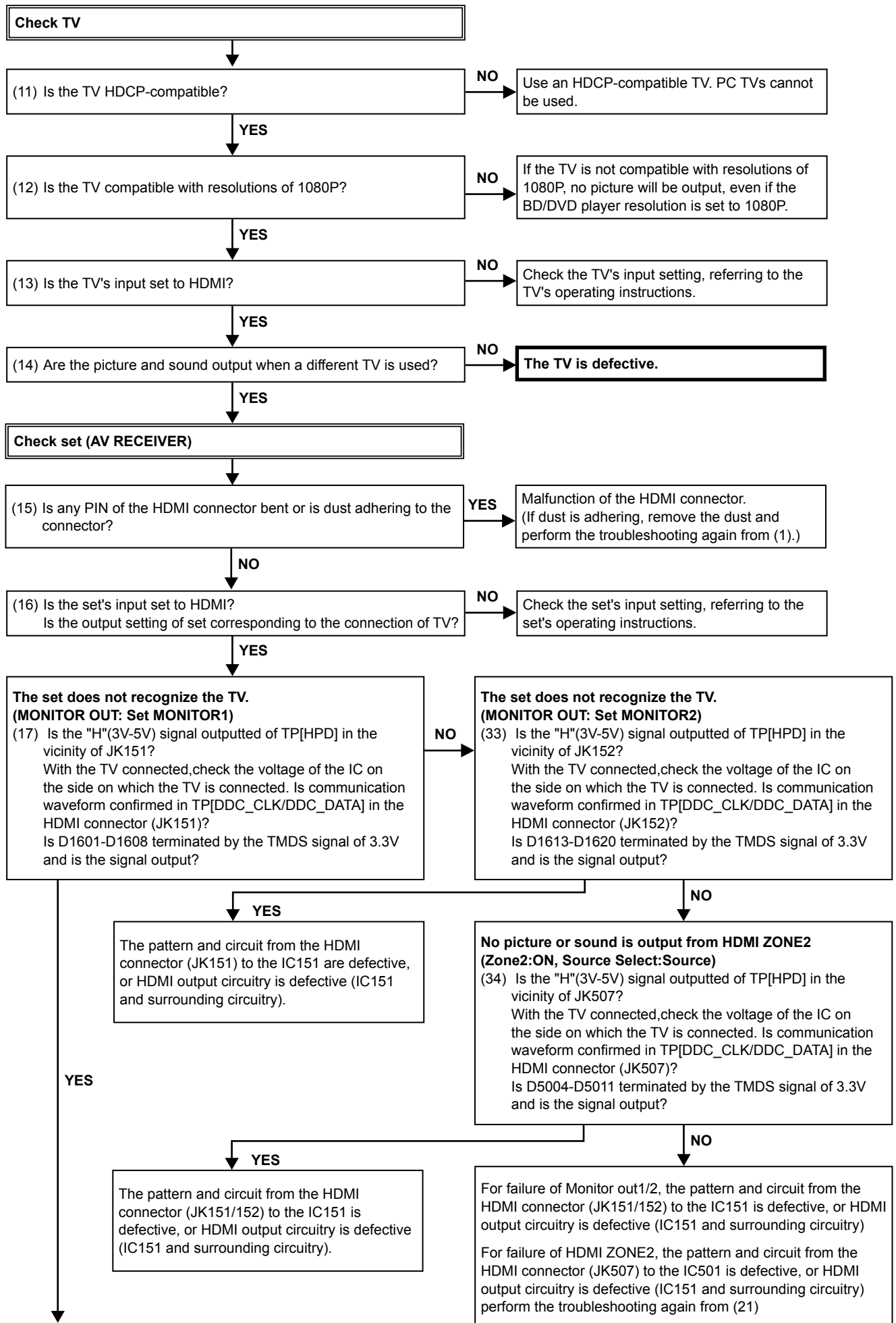
(COMPONENT SIDE)

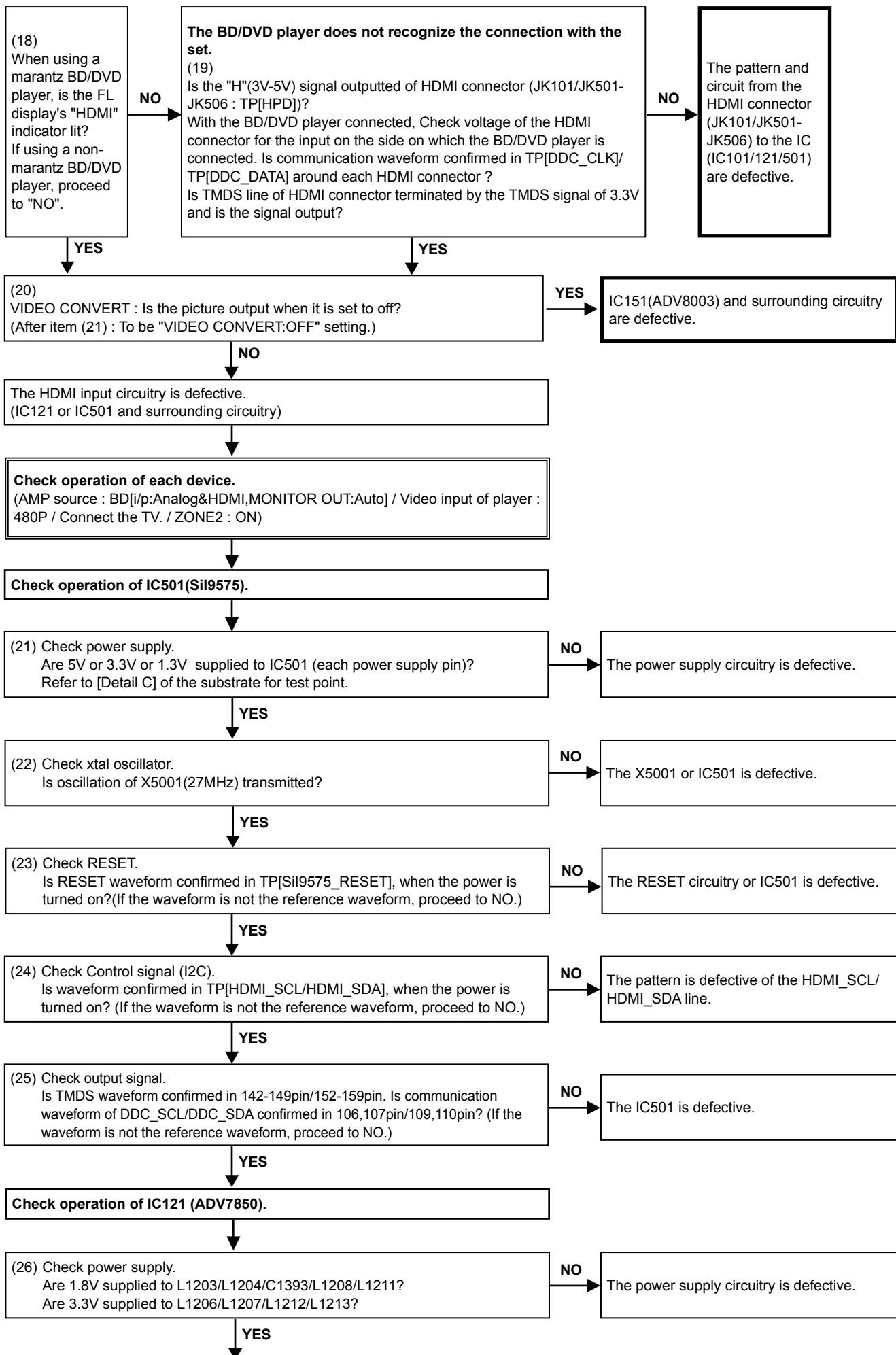
No.	Ref. No.
1	J5004
2	J5010
3	J5007
4	J5040
5	J5003
6	J5024
7	J5028
8	J5029
9	CN51B 11pin
10	CN51B 9pin
11	CN51B 7pin
12	CN51B 5pin

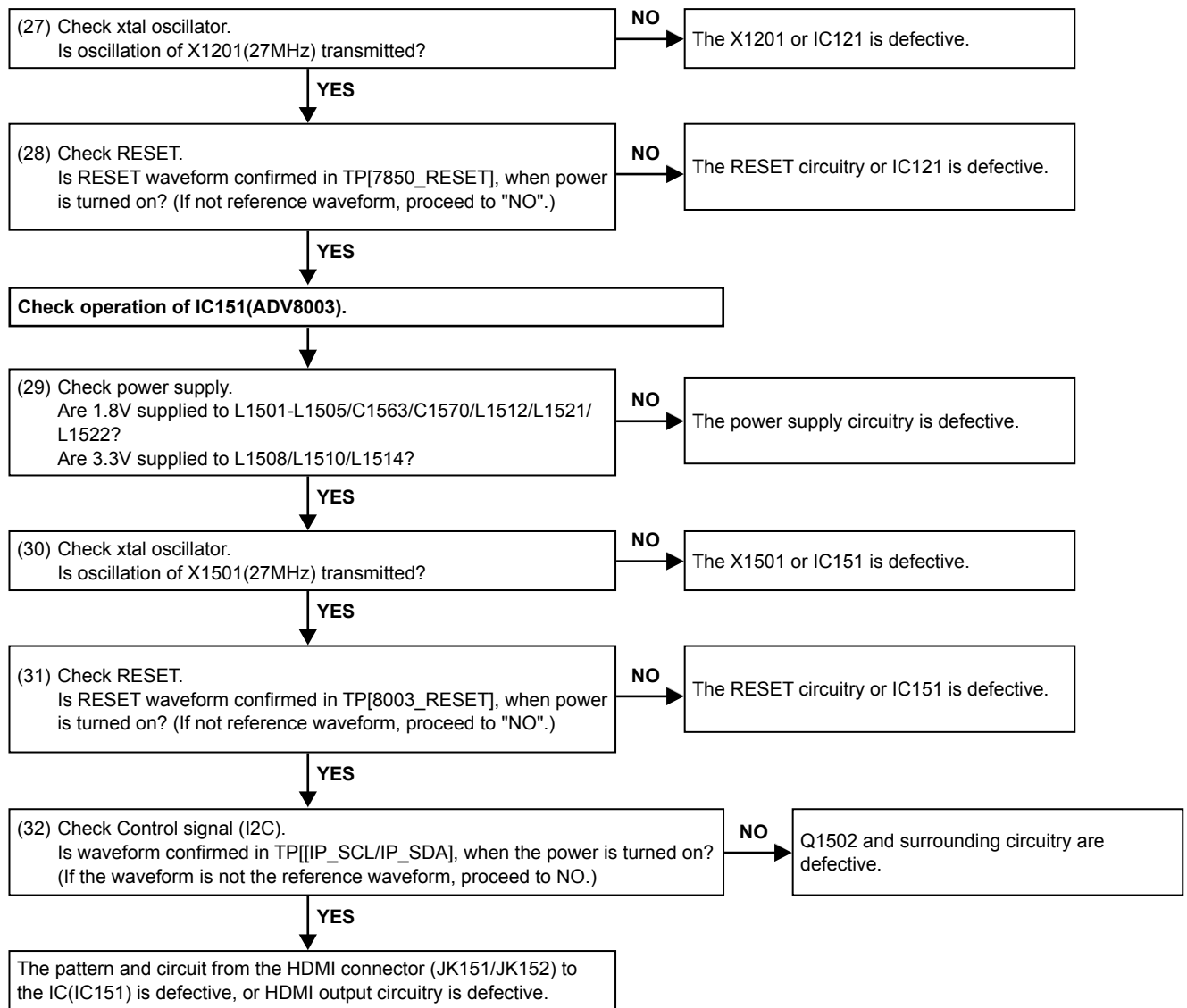
3. HDMI/DVI

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

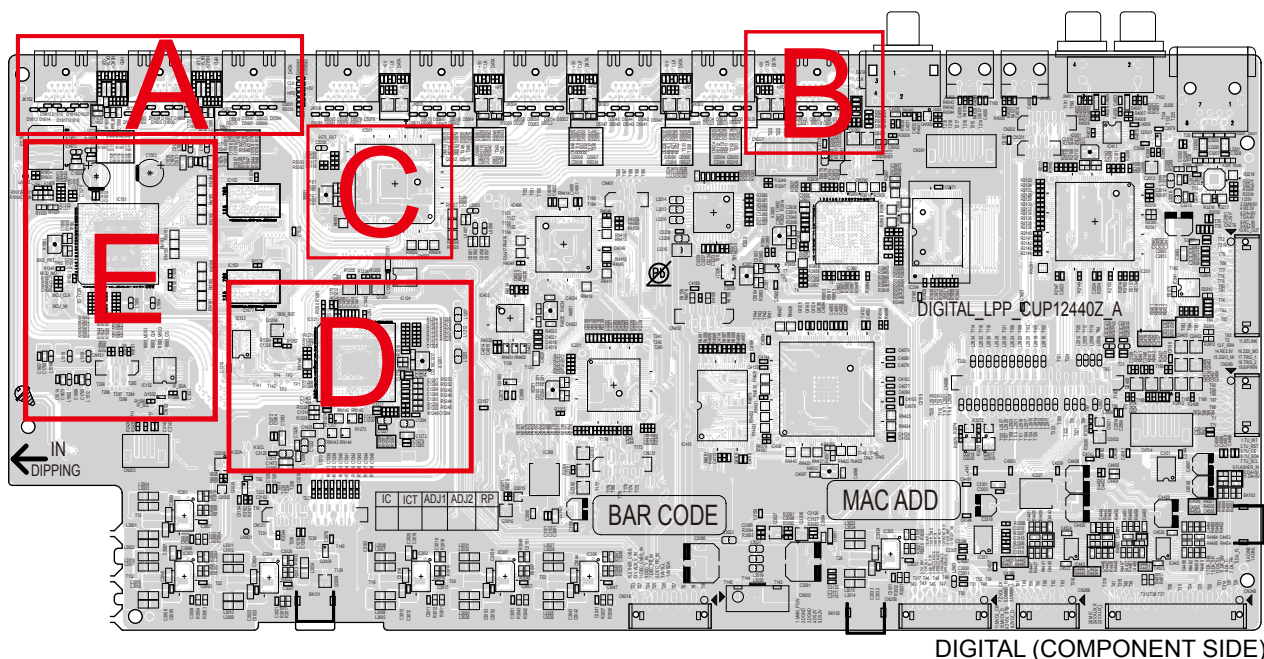




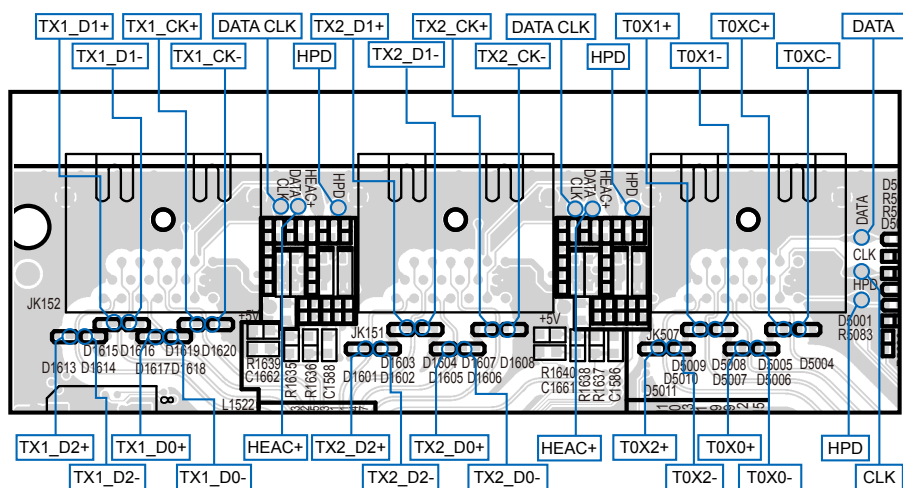




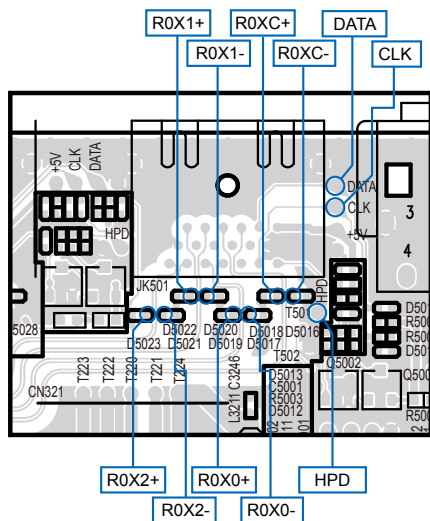
3.2. HDMI test point and waveforms



Detail A



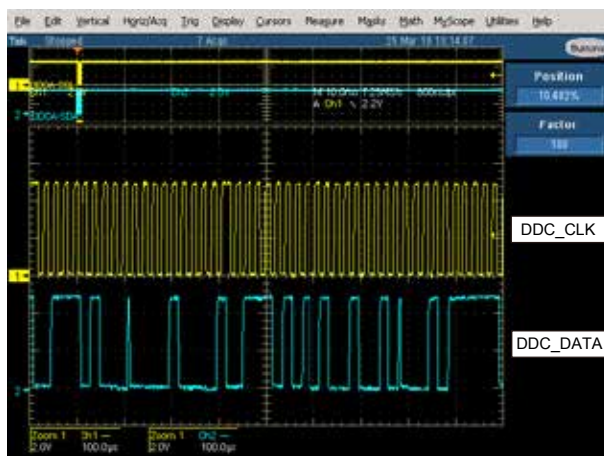
Detail B



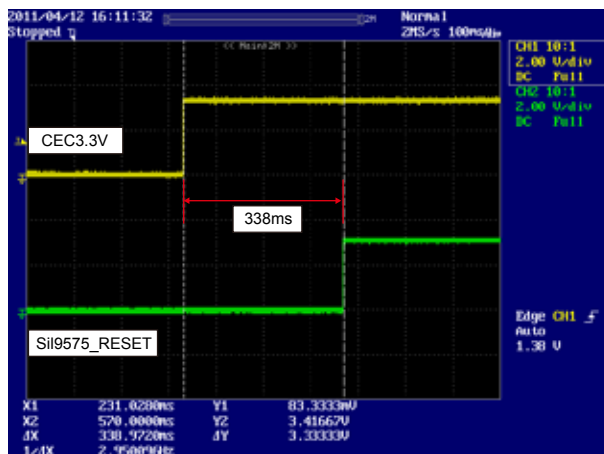
A: 5V	101 pin
B: 3.3V	19,38,56,112,123,173 pin
C: 1.3V	18,36,37,55,65,111,116,139,140,141,150,151,160 pin

TMD5_OUTPUT	142,143,144,145,146,147,148,149,152,153, 154,155,156,157,158,159 pin
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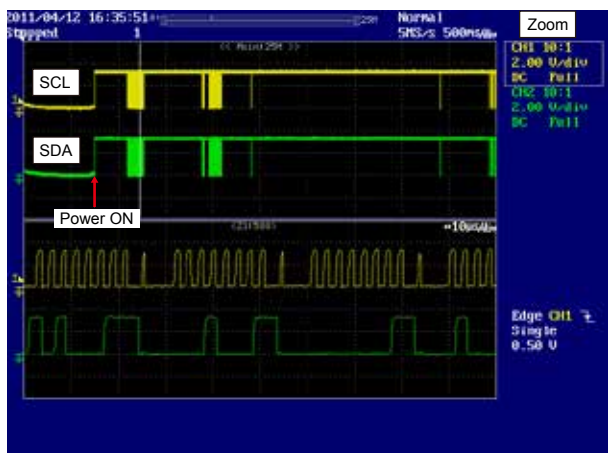
DDC_CLK/DDC_DATA/TMDS : Check items HDMI to HDMI (17)/(19)/(25)/(33)/(34)



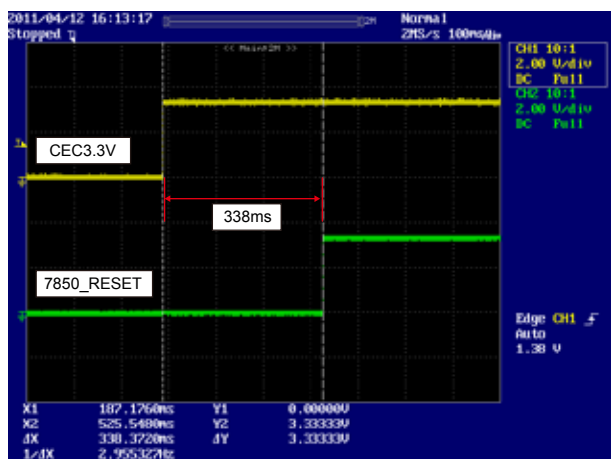
Timing waveform illustration from the start of CEC3.3V to when reset is released : Check items (23)



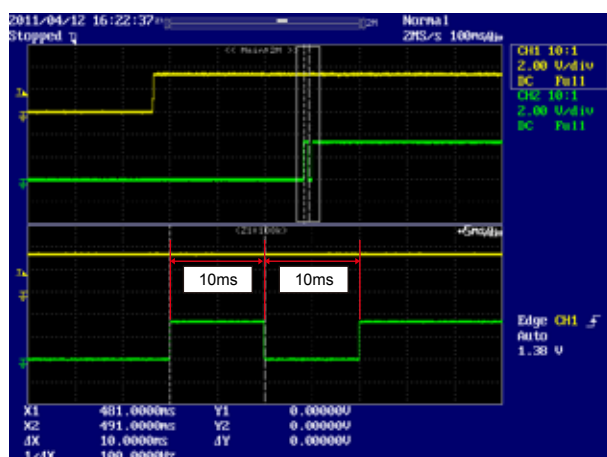
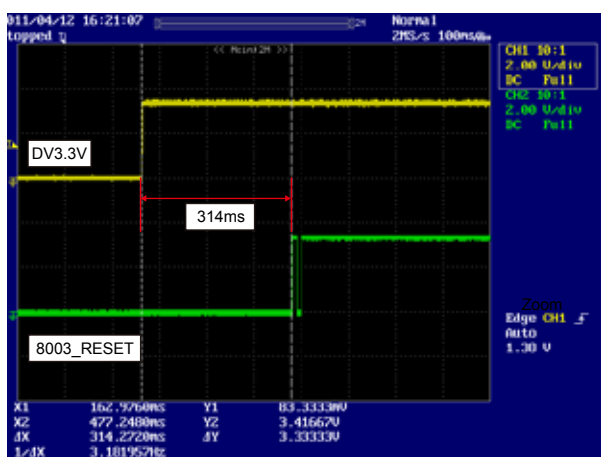
Controlled waveform (I2C), when power is turned on : Check items (24)/(32)



Timing waveform illustration from the start of CEC3.3V to when reset is released : Check items (28)

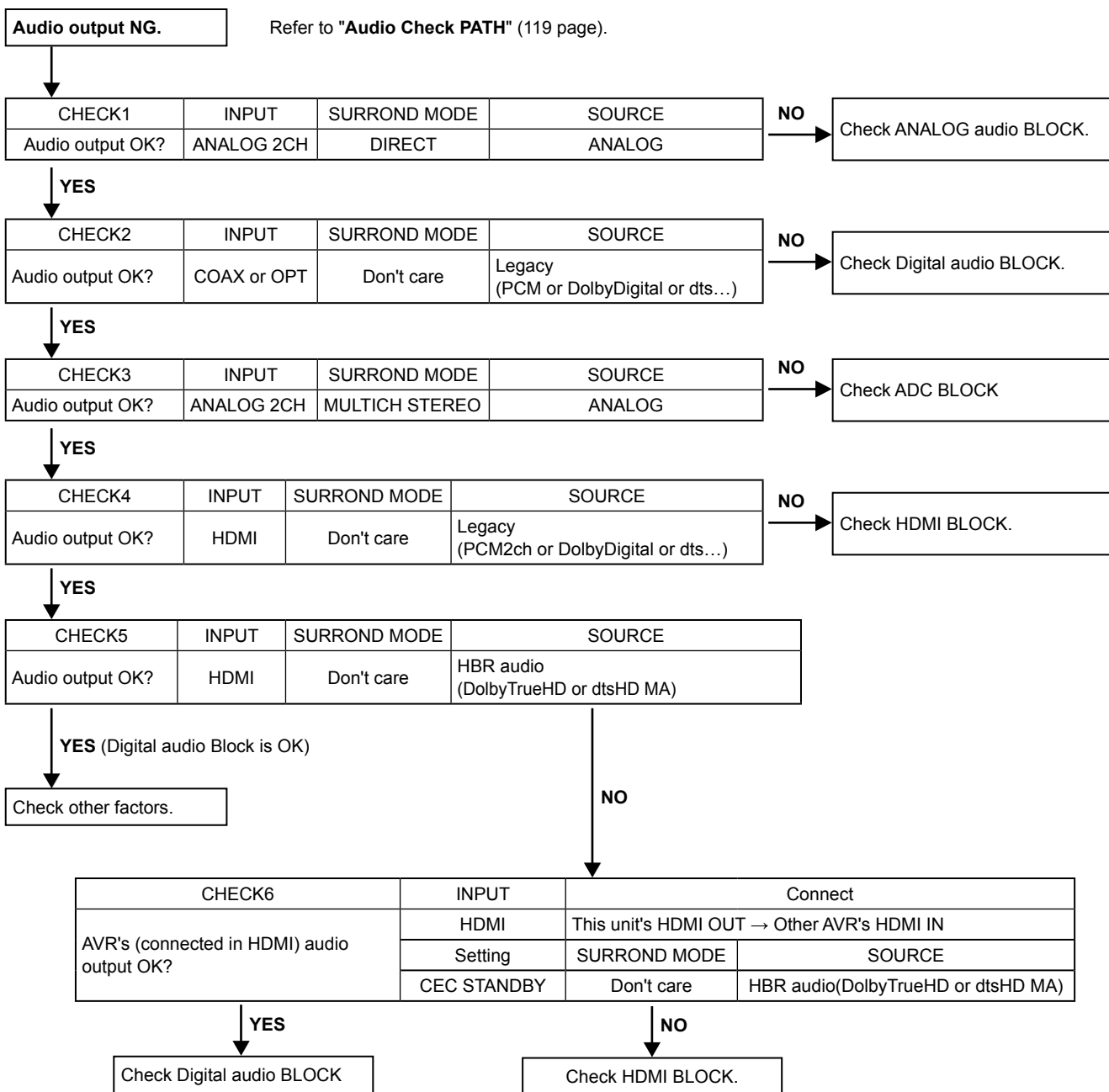


Timing waveform illustration from the start of CEC3.3V to when reset is released : Check items (31)

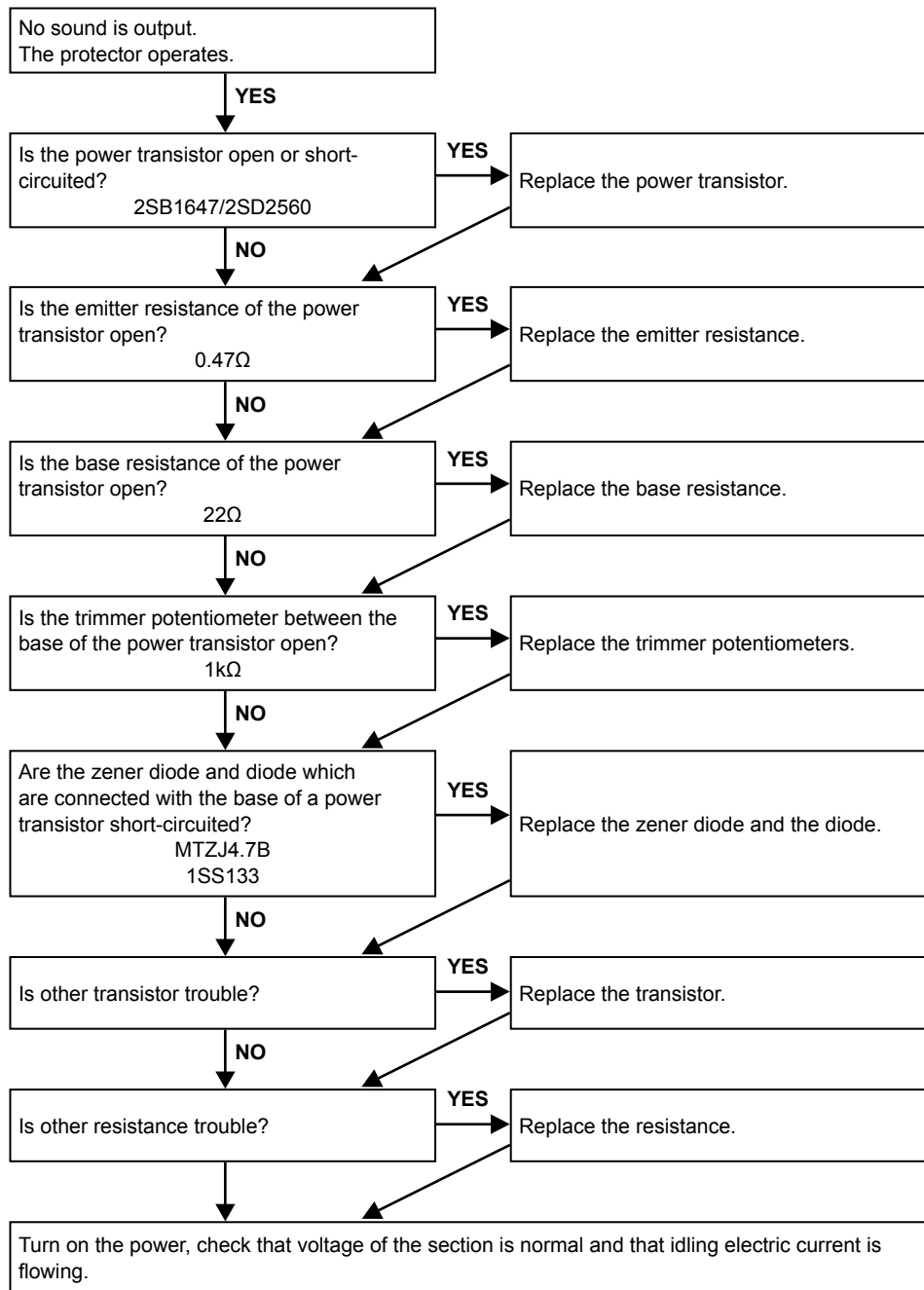


4. AUDIO

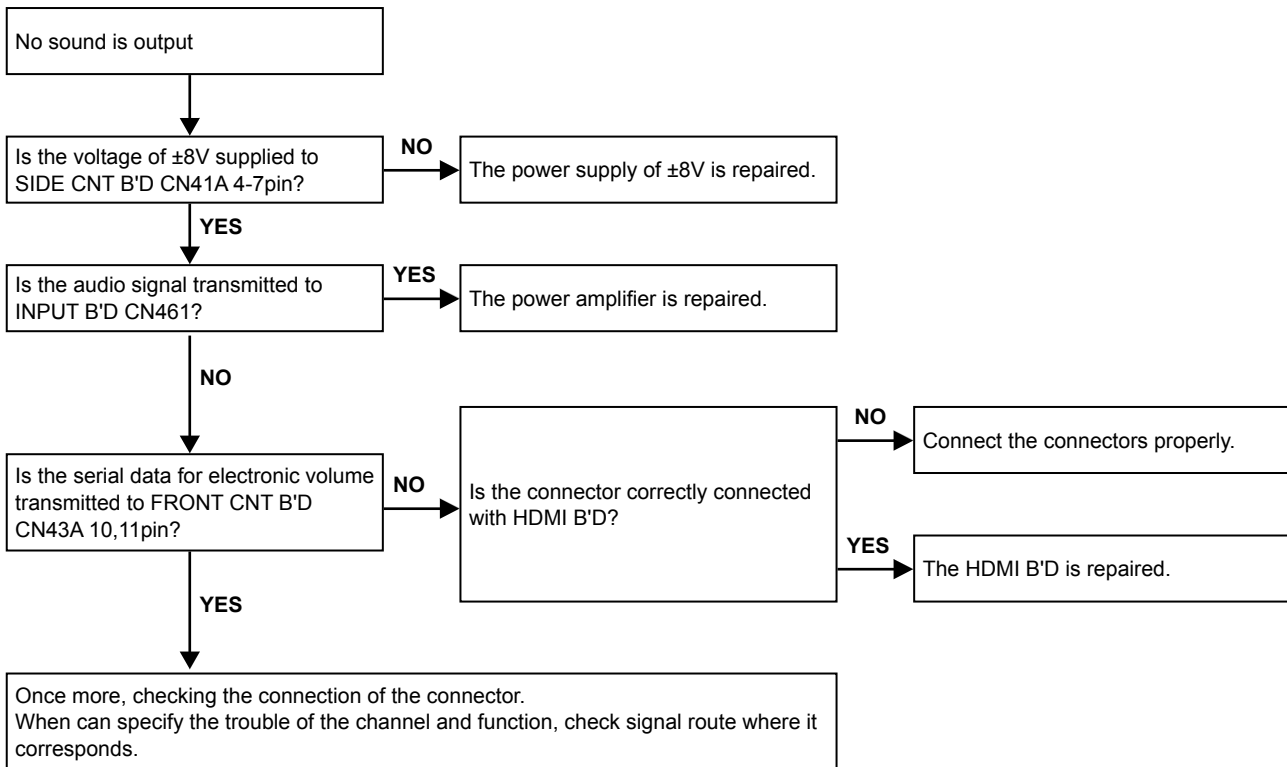
4.1. AUDIO CHECK



4.2. Power AMP (MAIN UNIT)

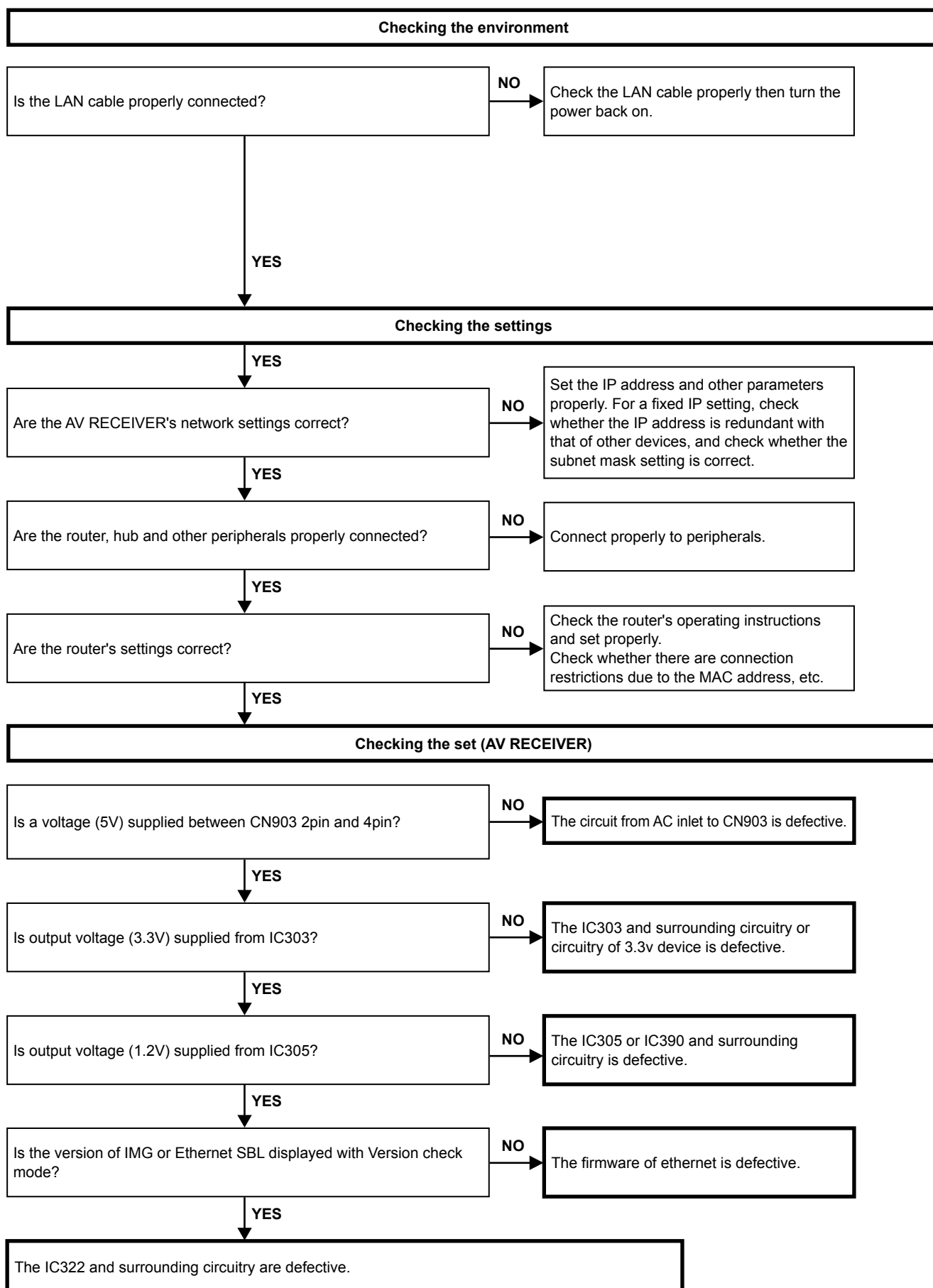


4.3. Analog audio

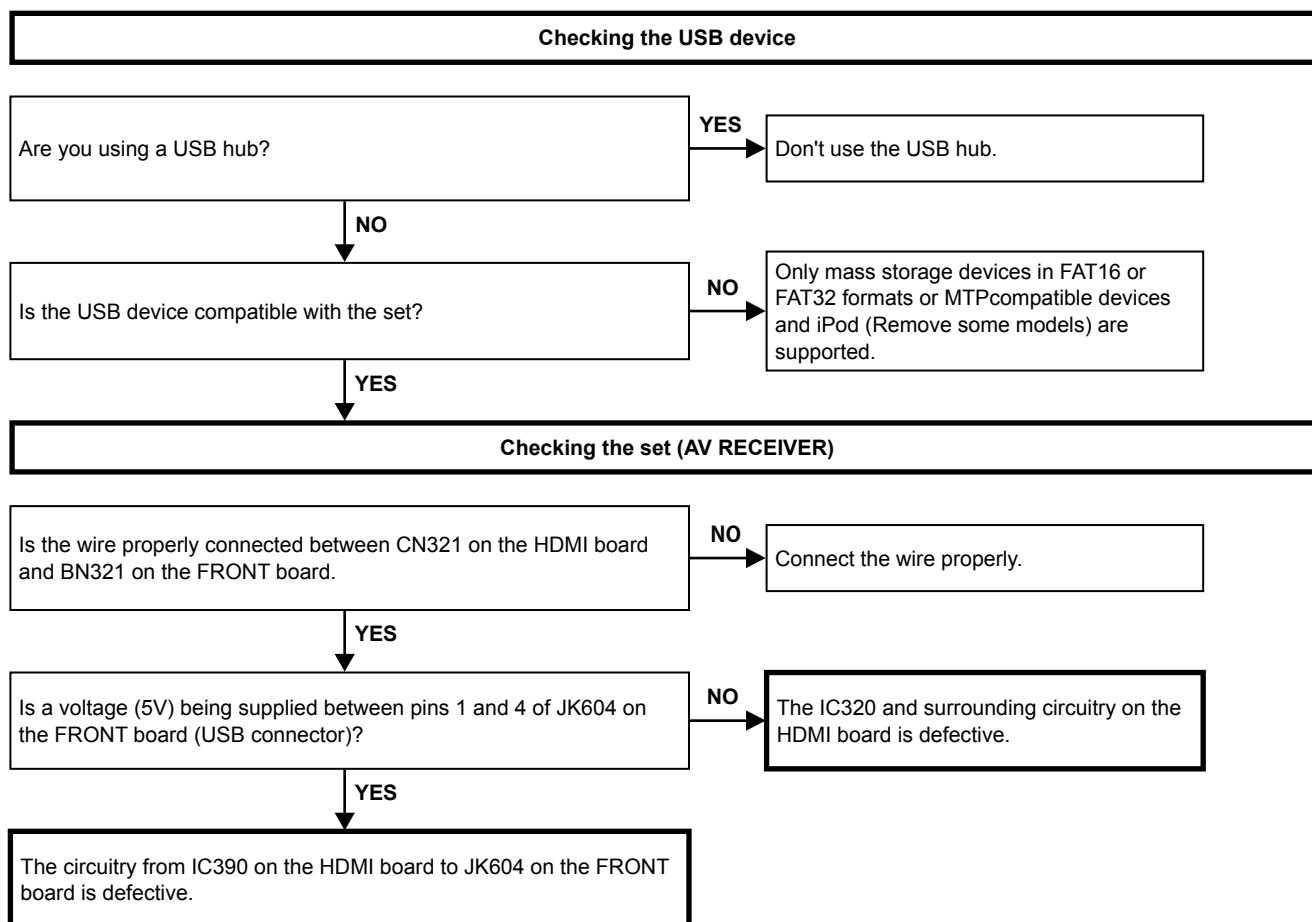


5. Network/USB

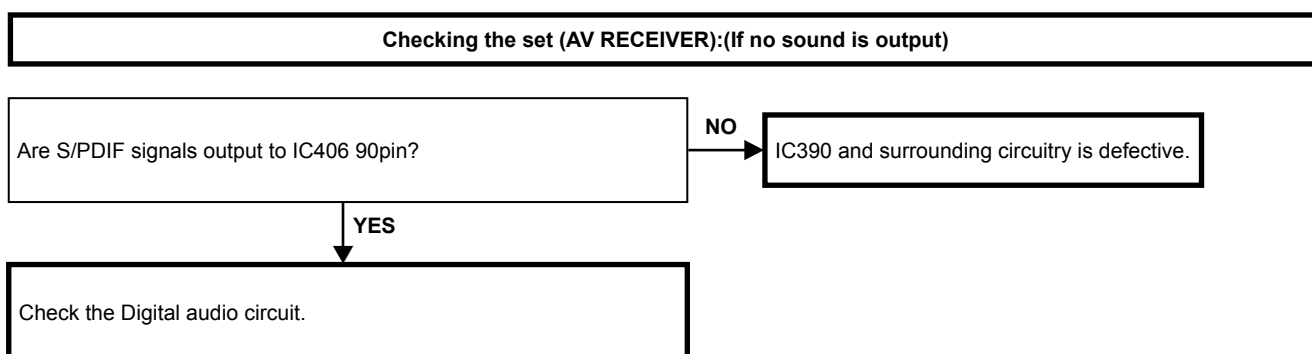
5.1. Cannot connect to network



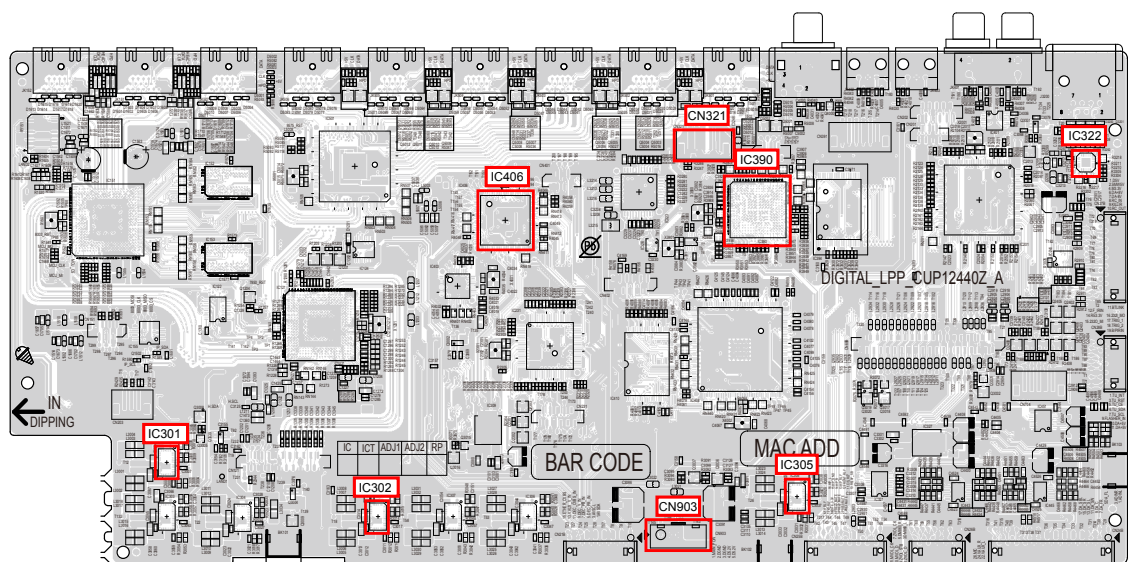
5.2. USB device is not recognized



5.3. No picture or sound is output

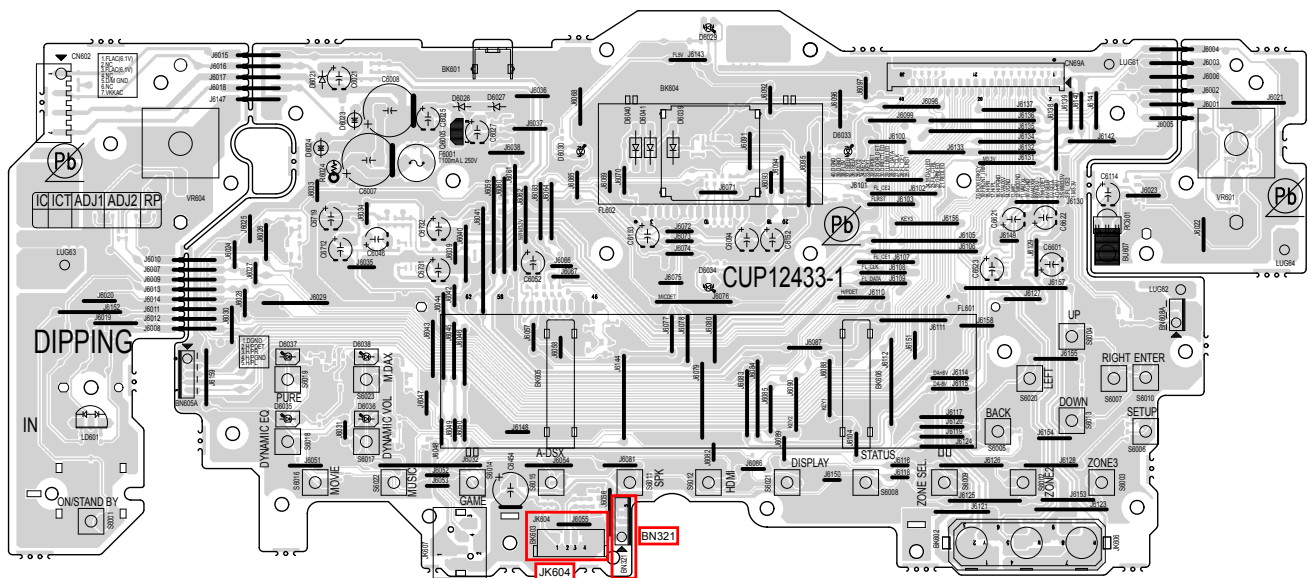


HDMI test point



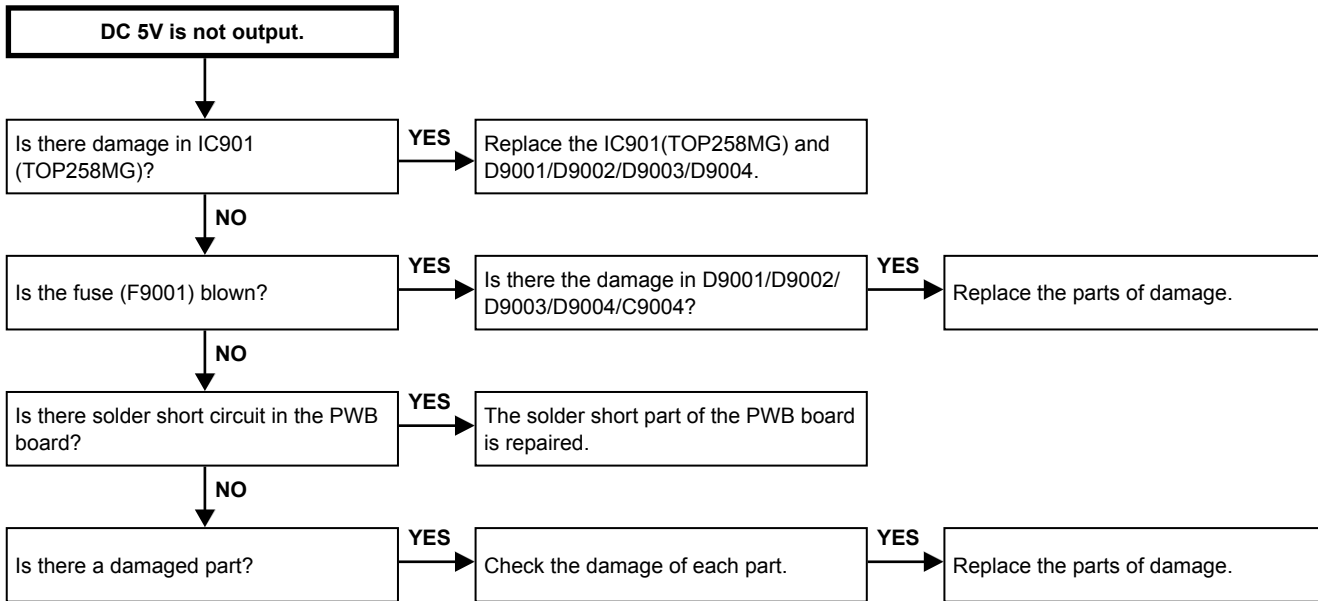
(COMPONENT SIDE)

FRONT test point

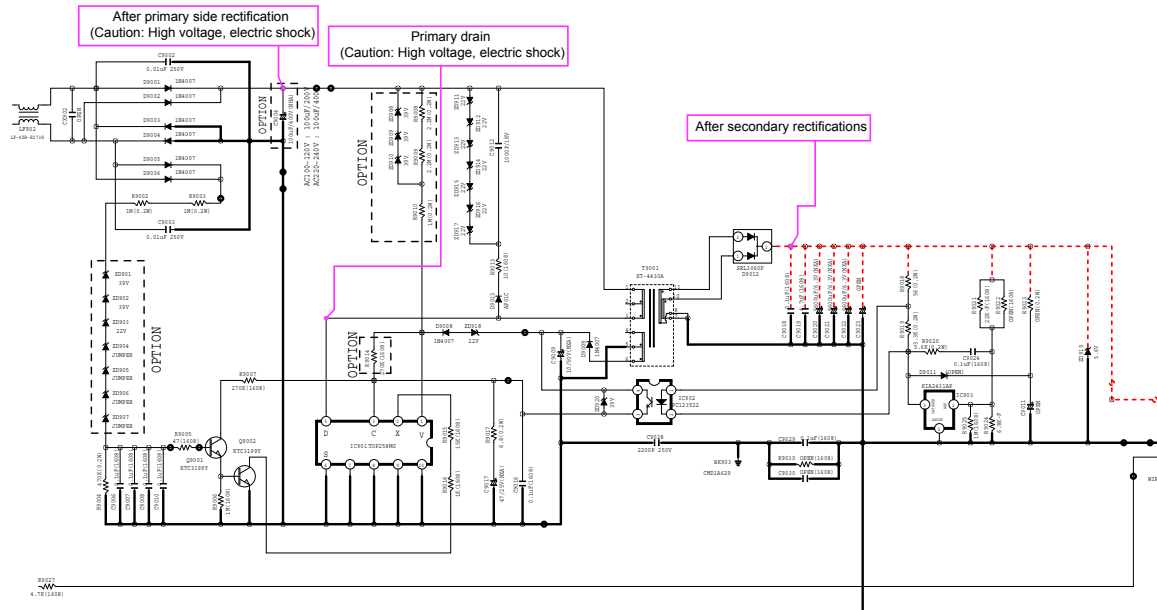


(COMPONENT SIDE)

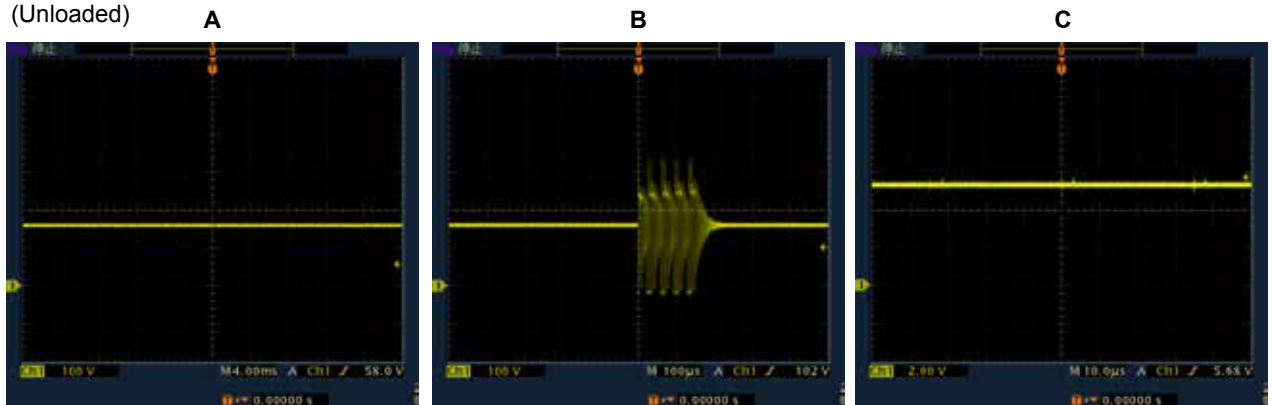
6. SMPS



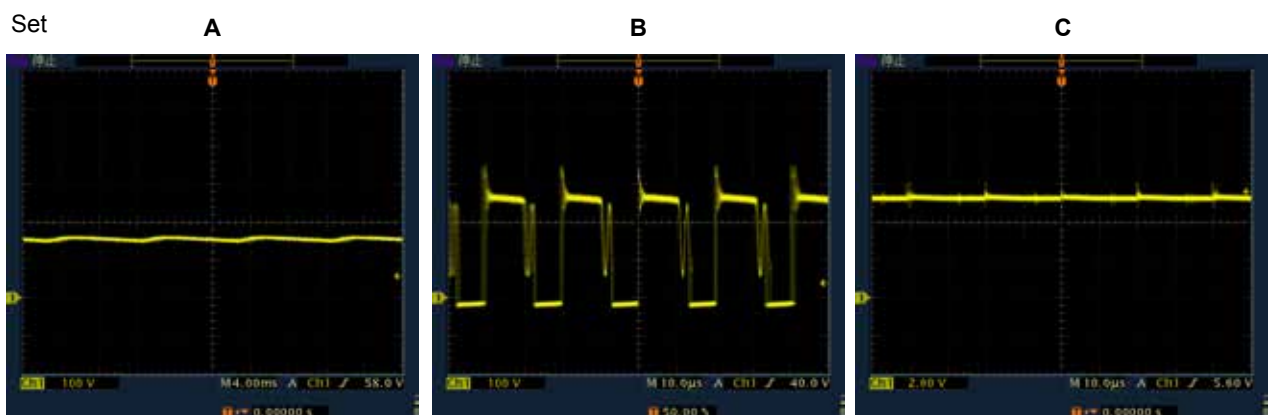
Operation waveform for each part



SMPS unit
(Unloaded)

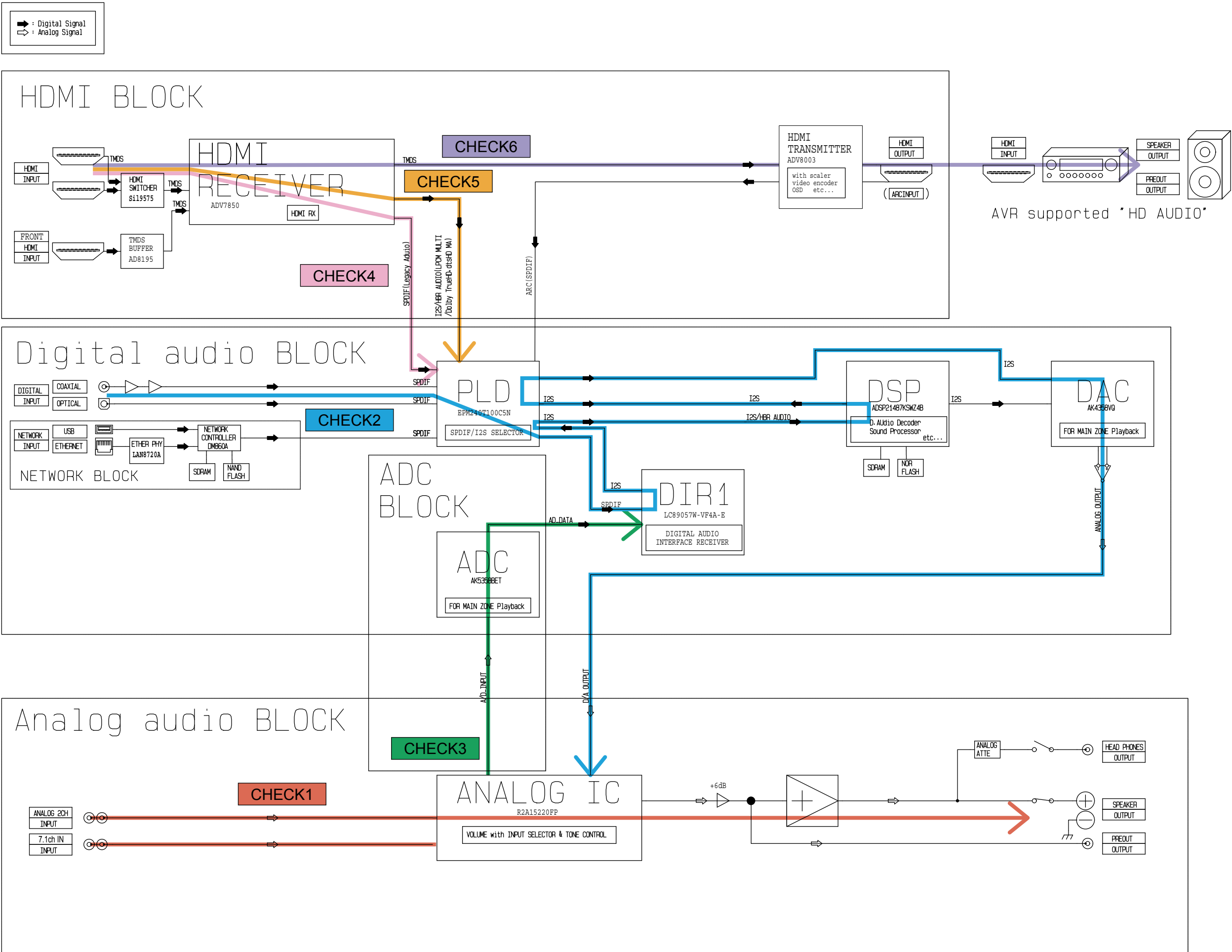


Set



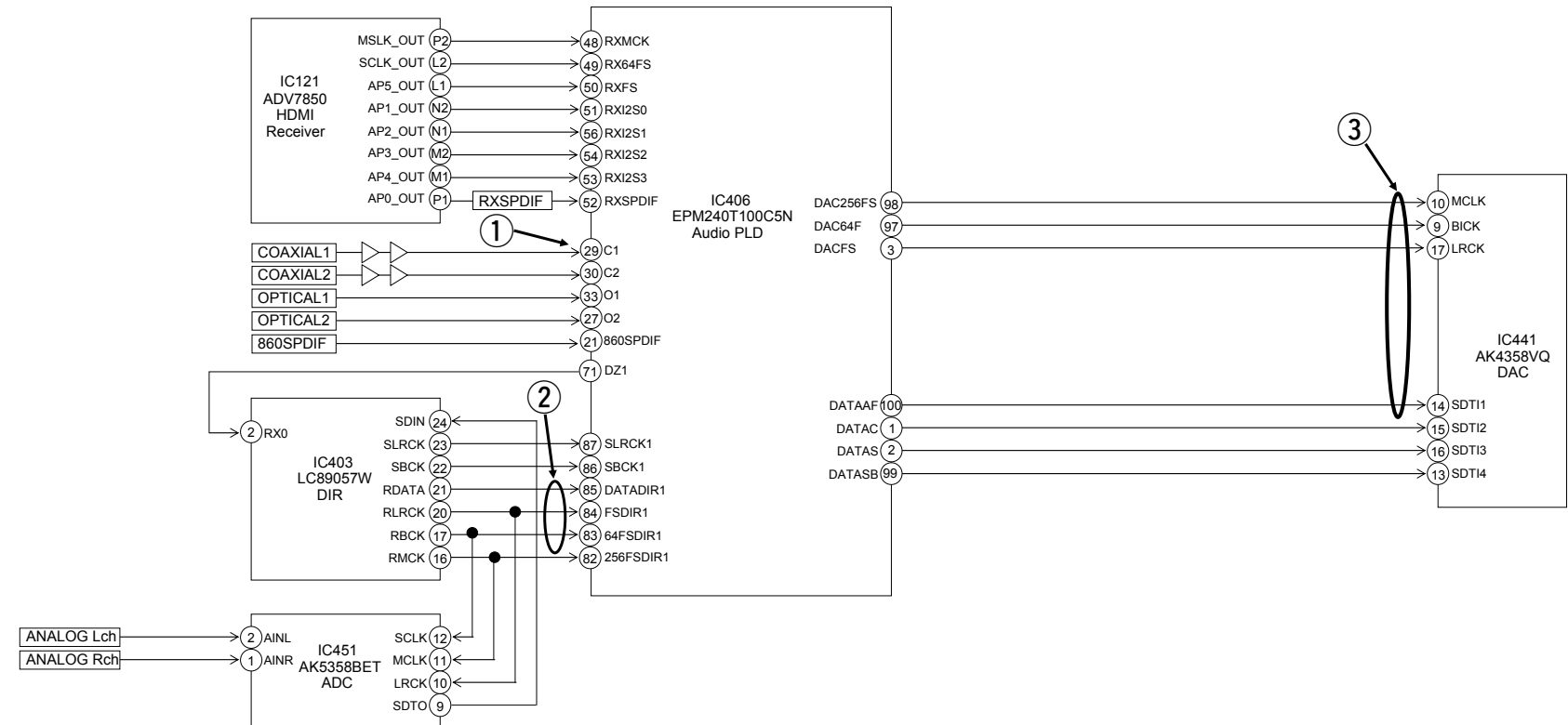
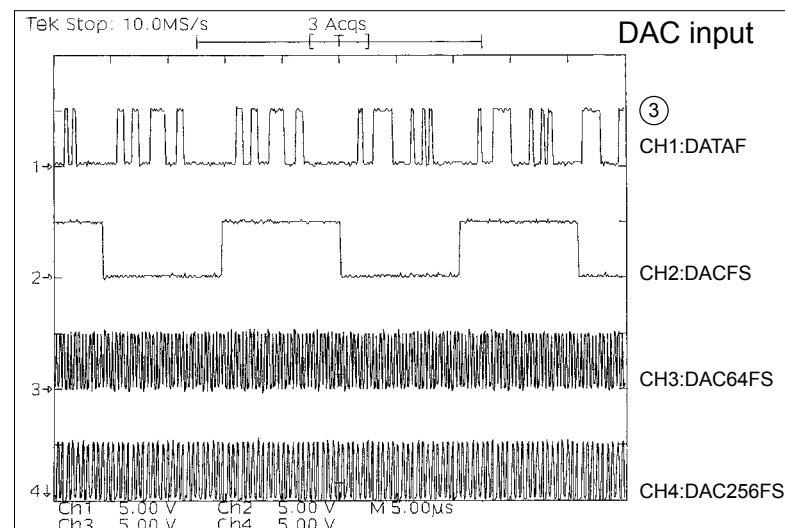
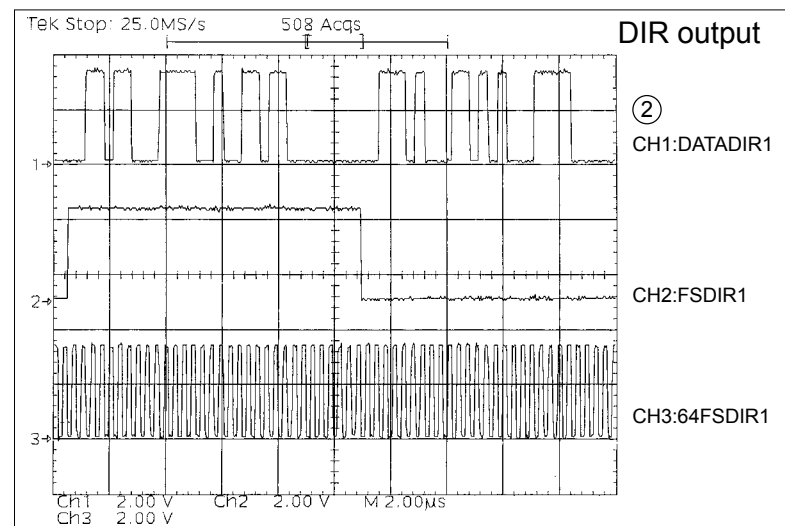
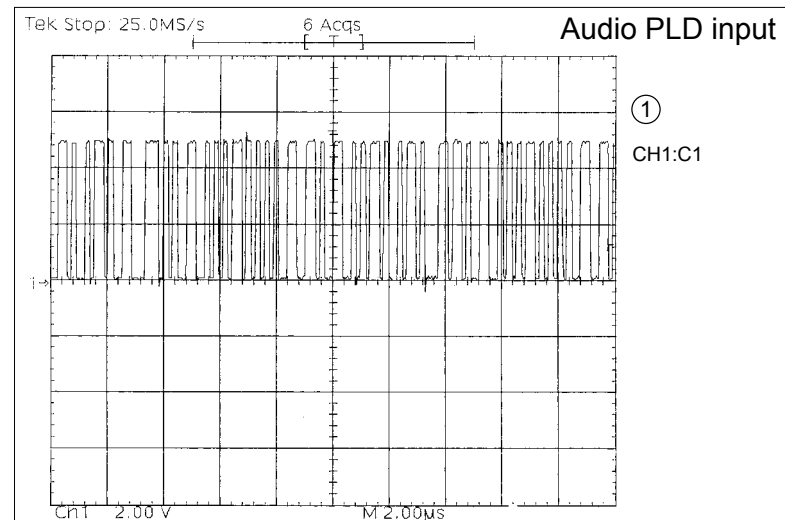
[illegible]

Audio Check PATH
Refer to troubleshooting "4.1. AUDIO CHECK"(00 page).

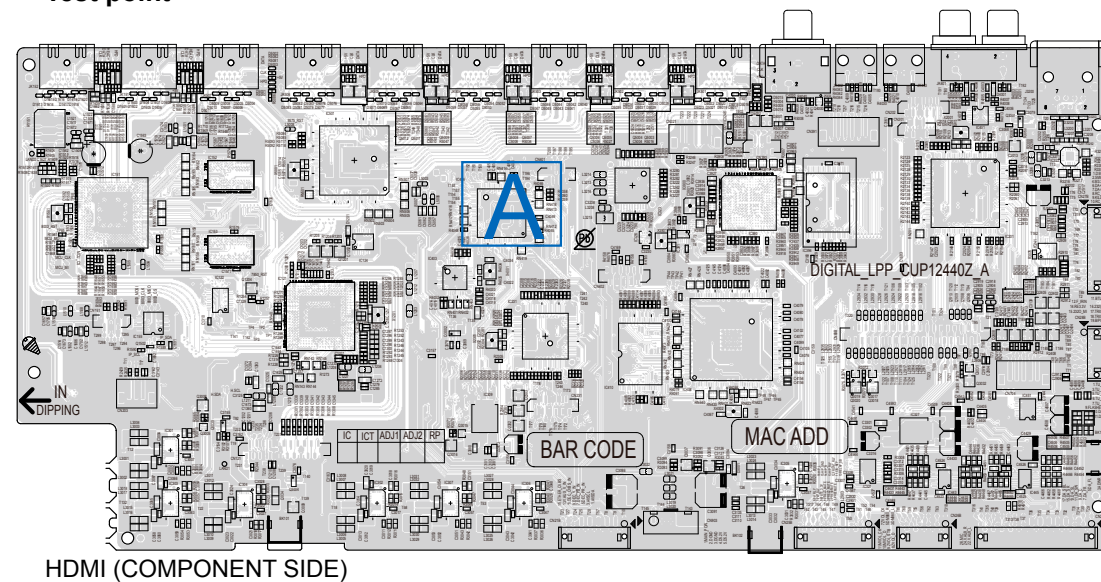


CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

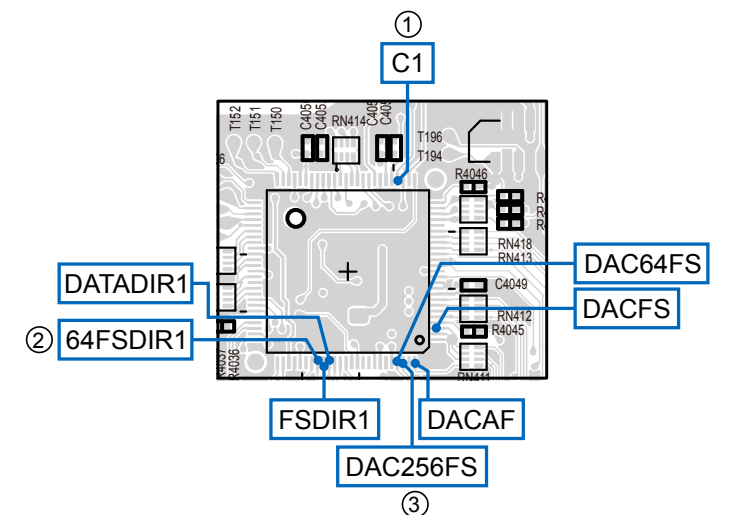
WAVE FORM



Test point

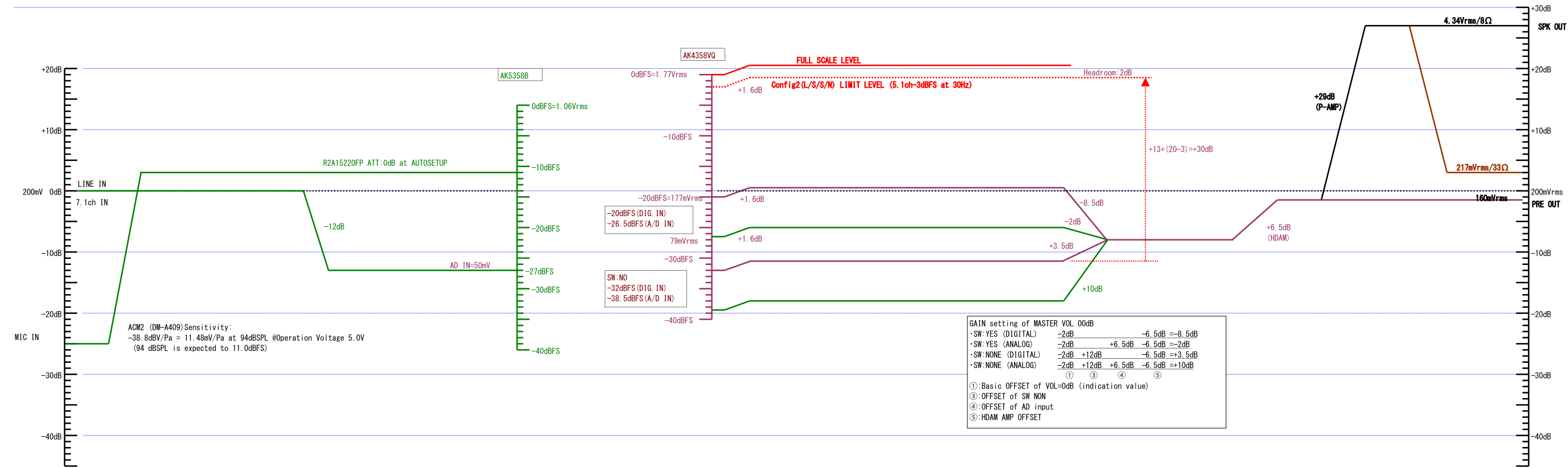


Detail A

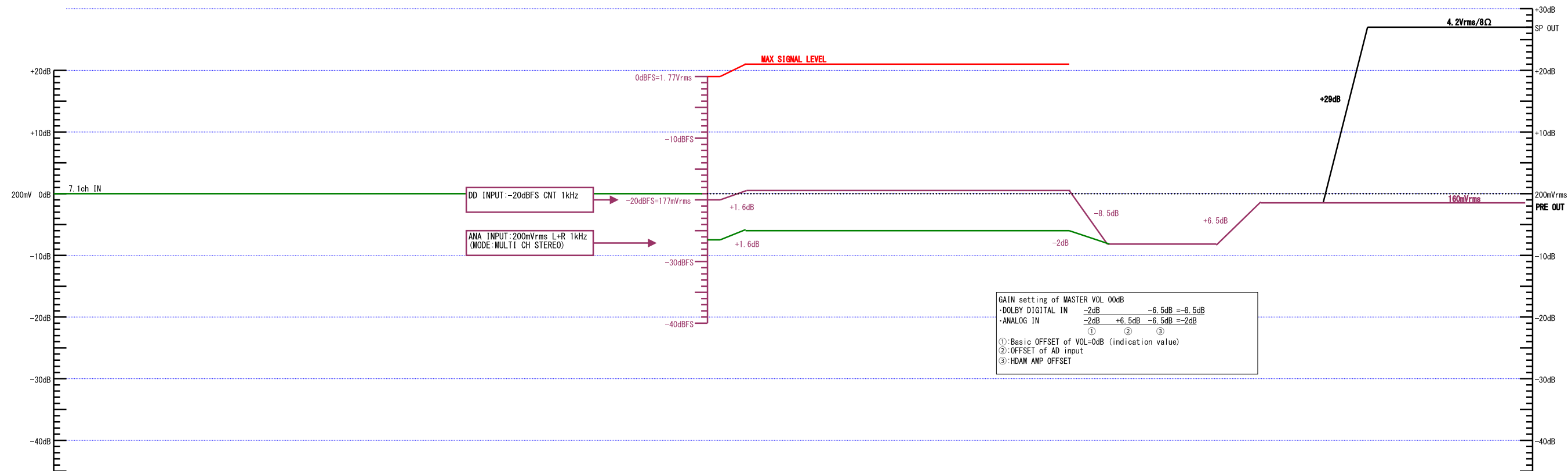


LEVEL DIAGRAM

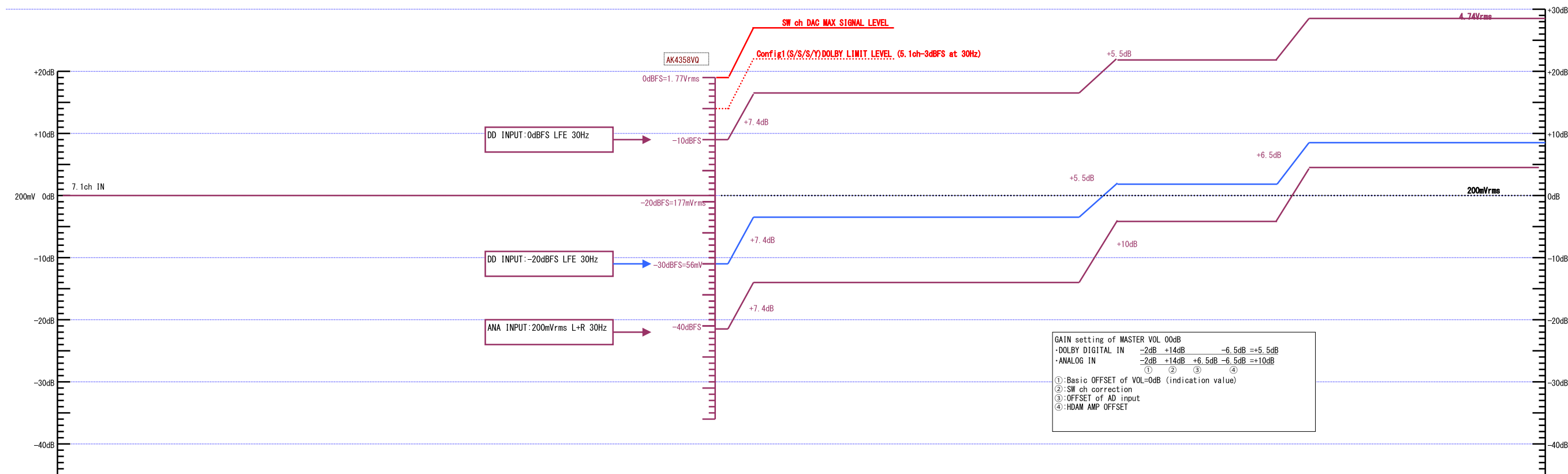
LEVEL DIAGRAM
FRONT ch



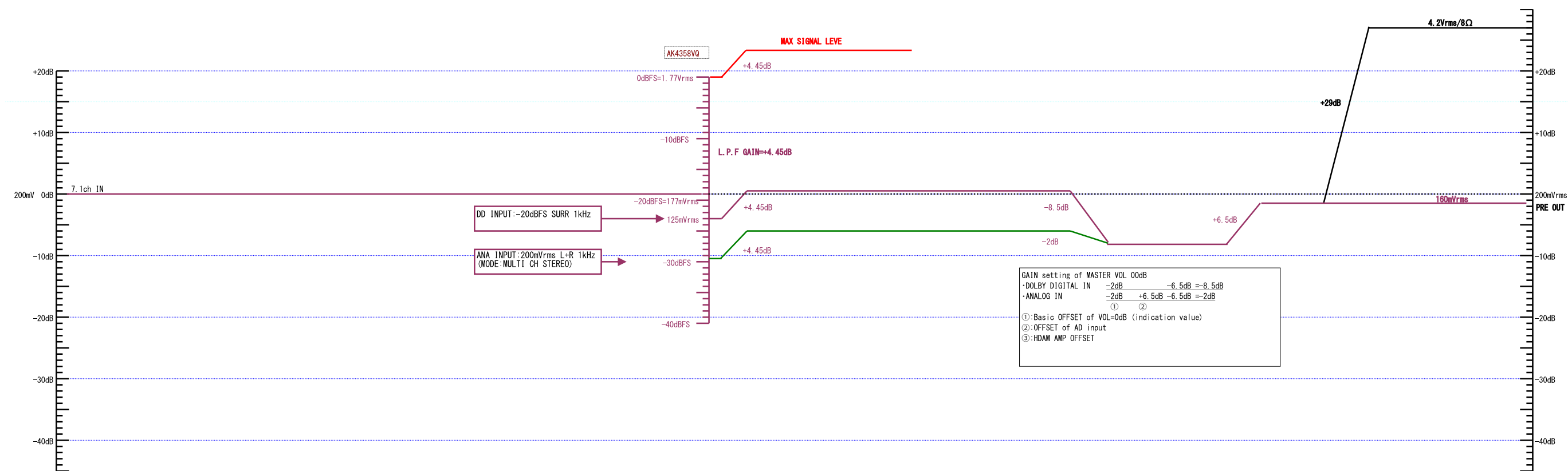
LEVEL DIAGRAM
CENTER ch



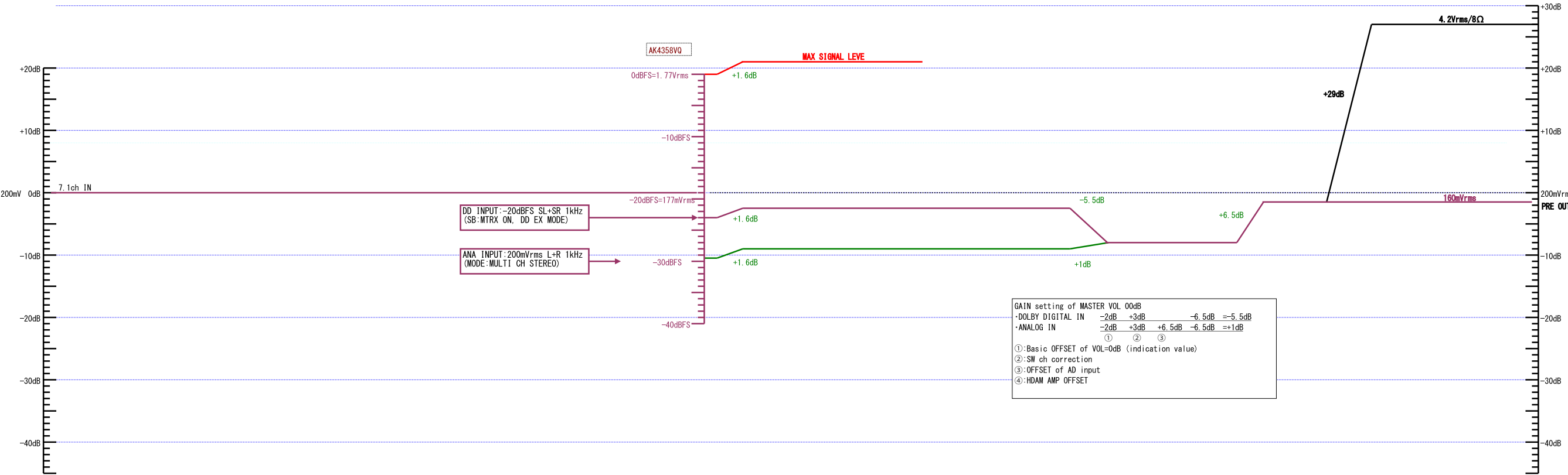
LEVEL DIAGRAM
SUBWOOFER ch



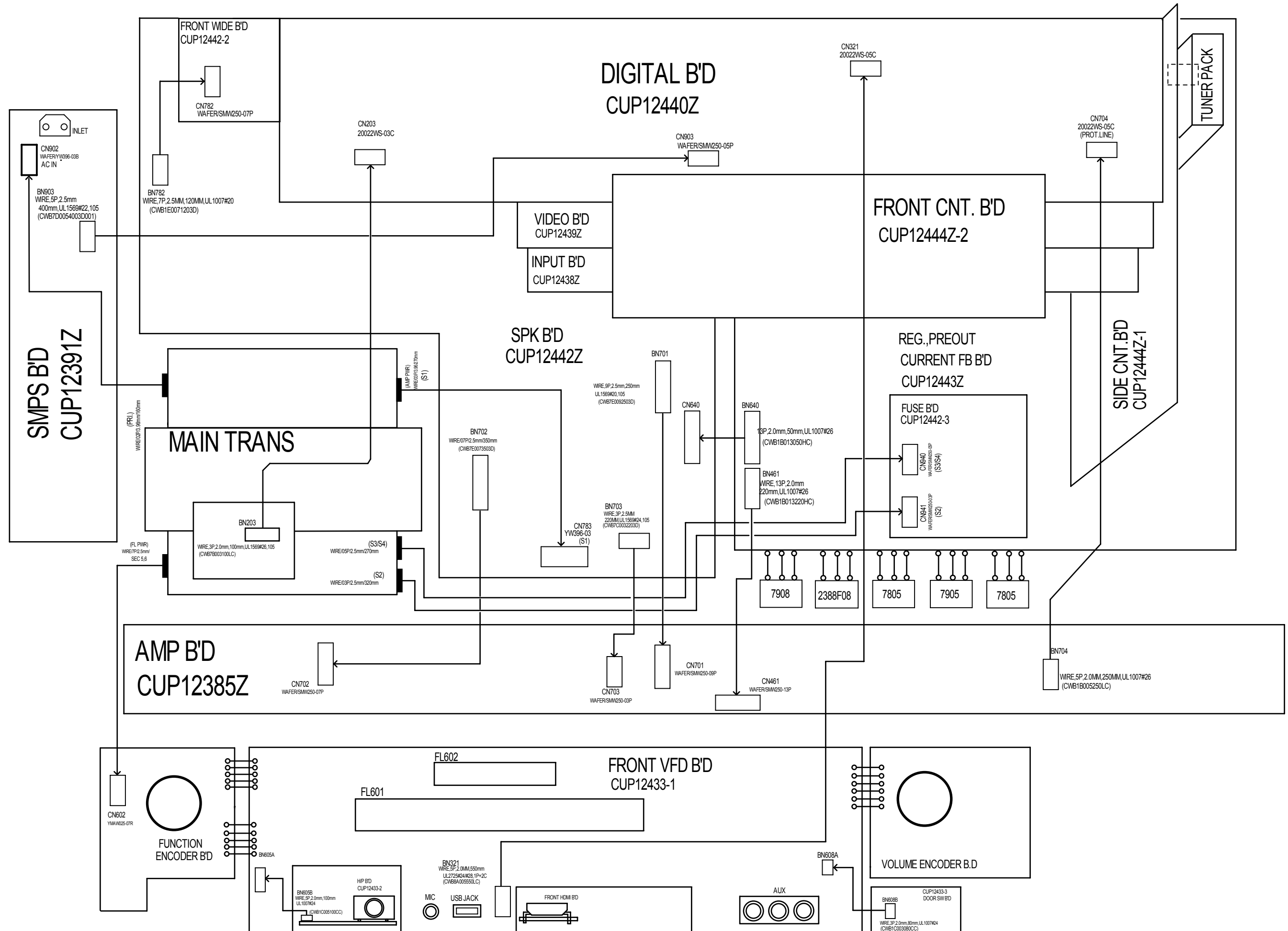
LEVEL DIAGRAM
SURROUND ch



LEVEL DIAGRAM
SURR.BACK ch



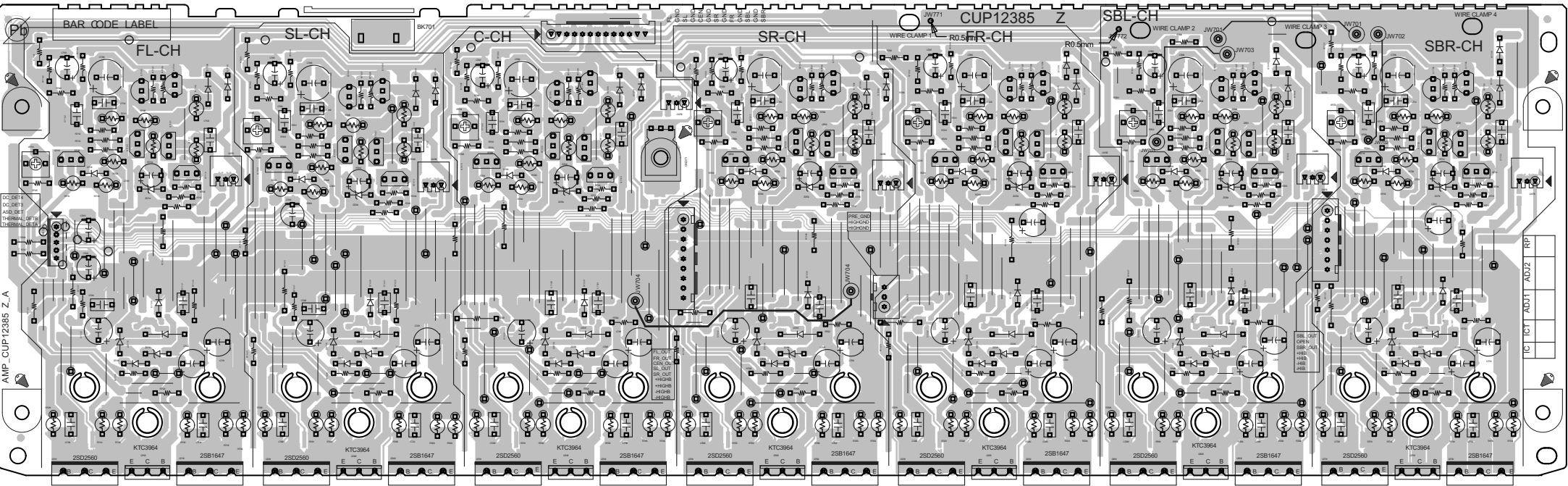
WIRING DIAGRAM



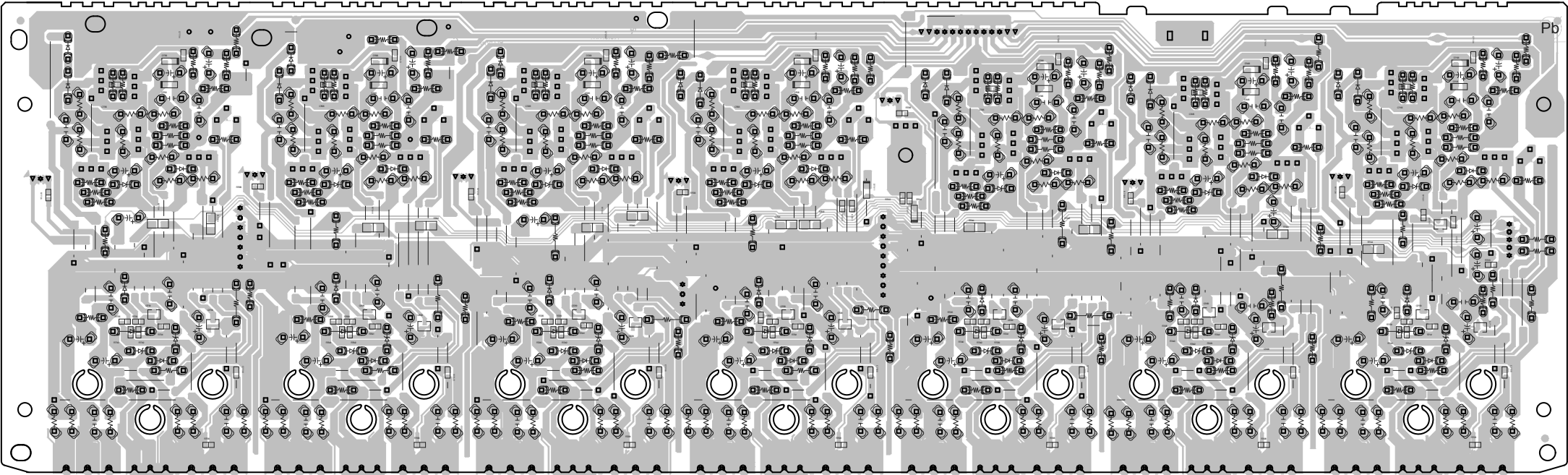
PRINTED WIRING BOARDS

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

AMP
(COMPONENT SIDE)

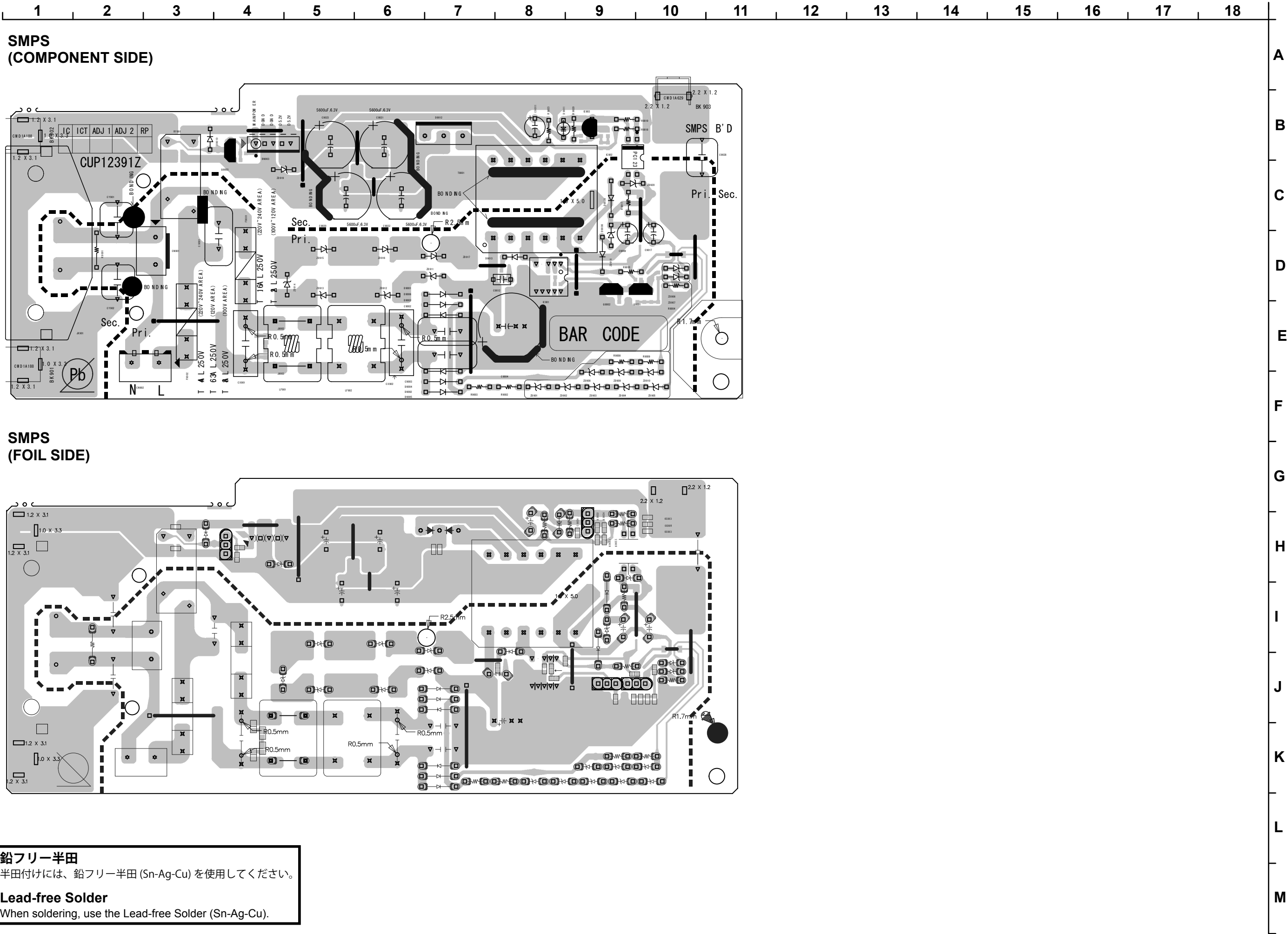


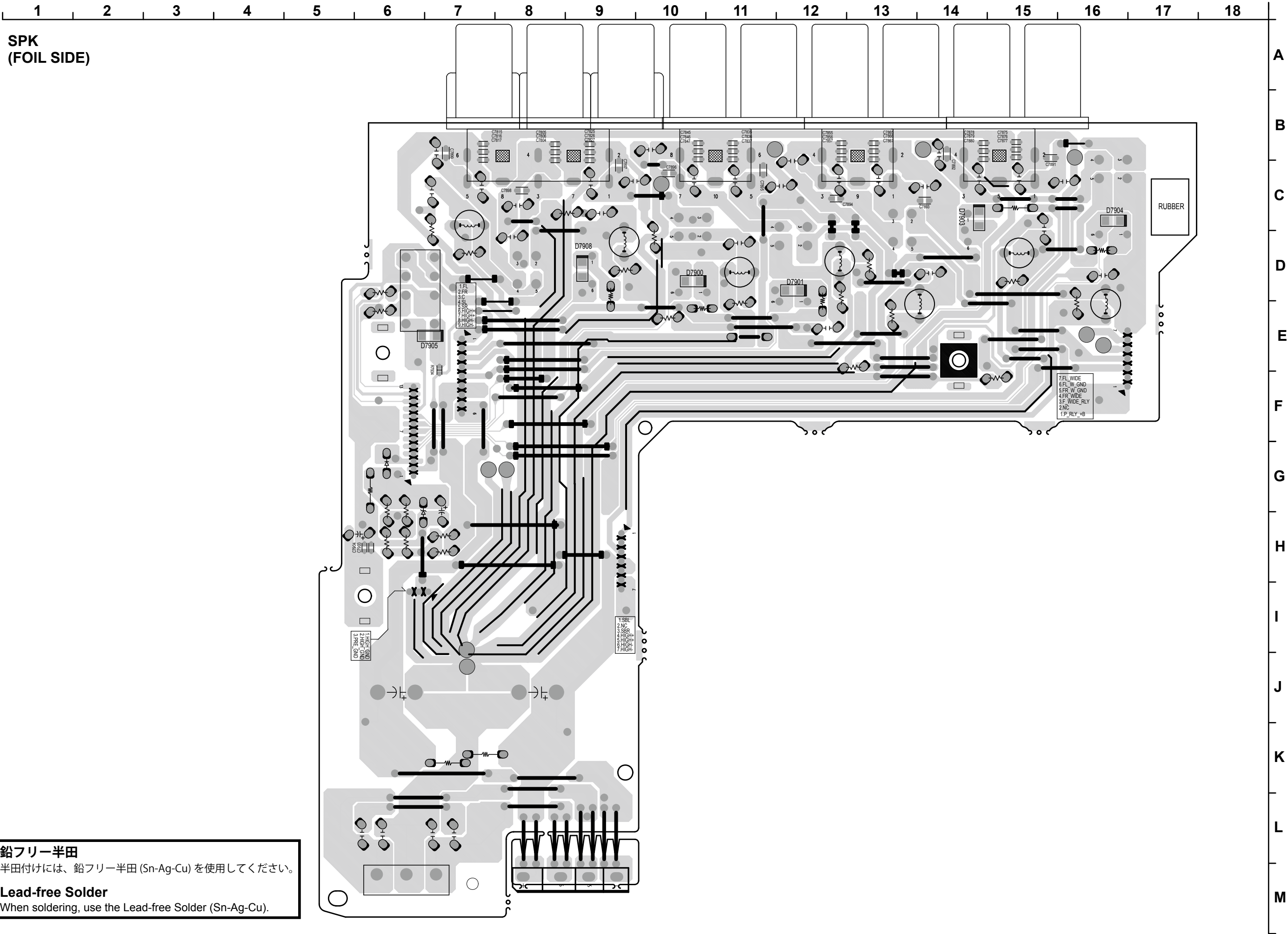
AMP
(FOIL SIDE)

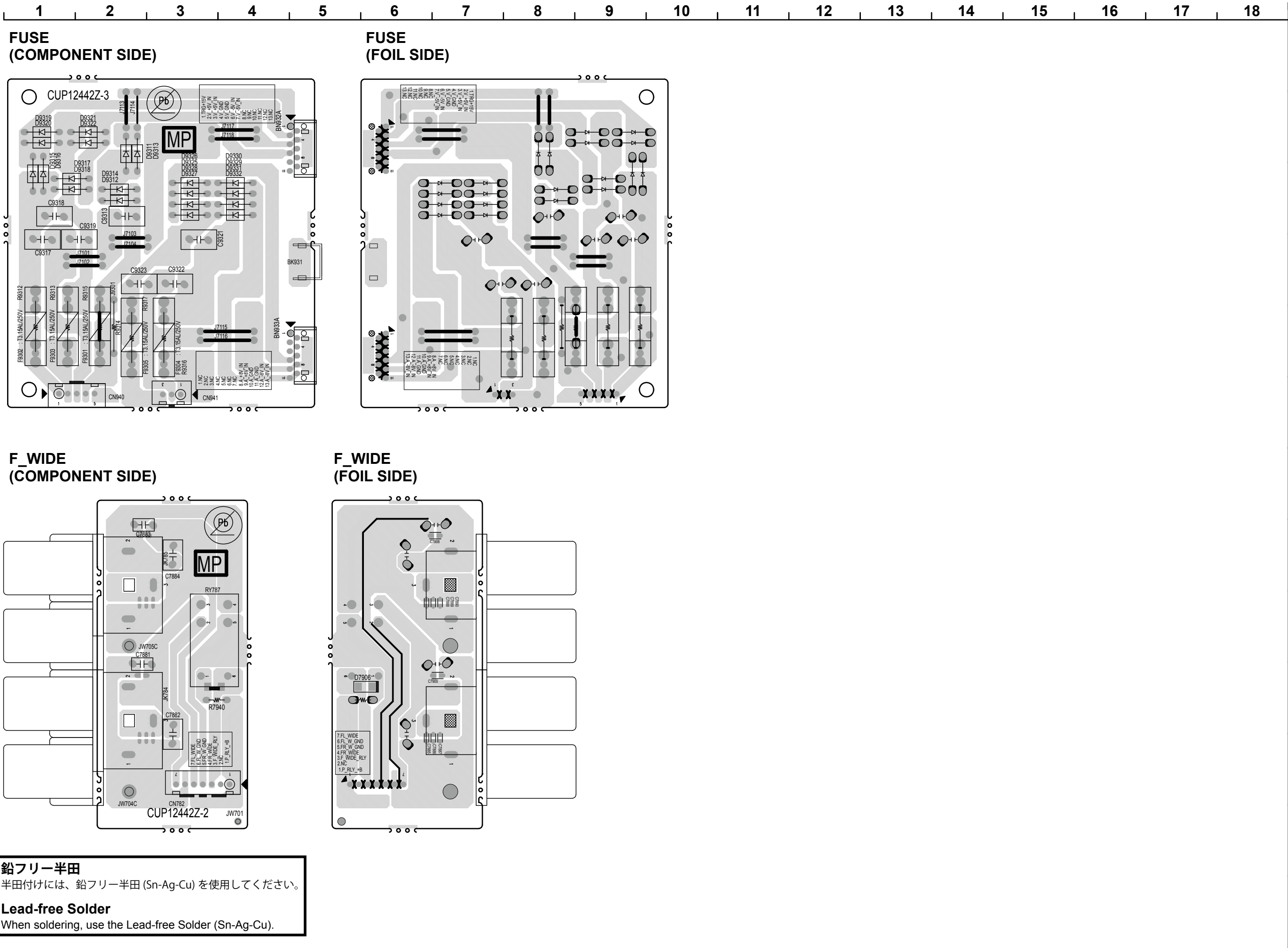


鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

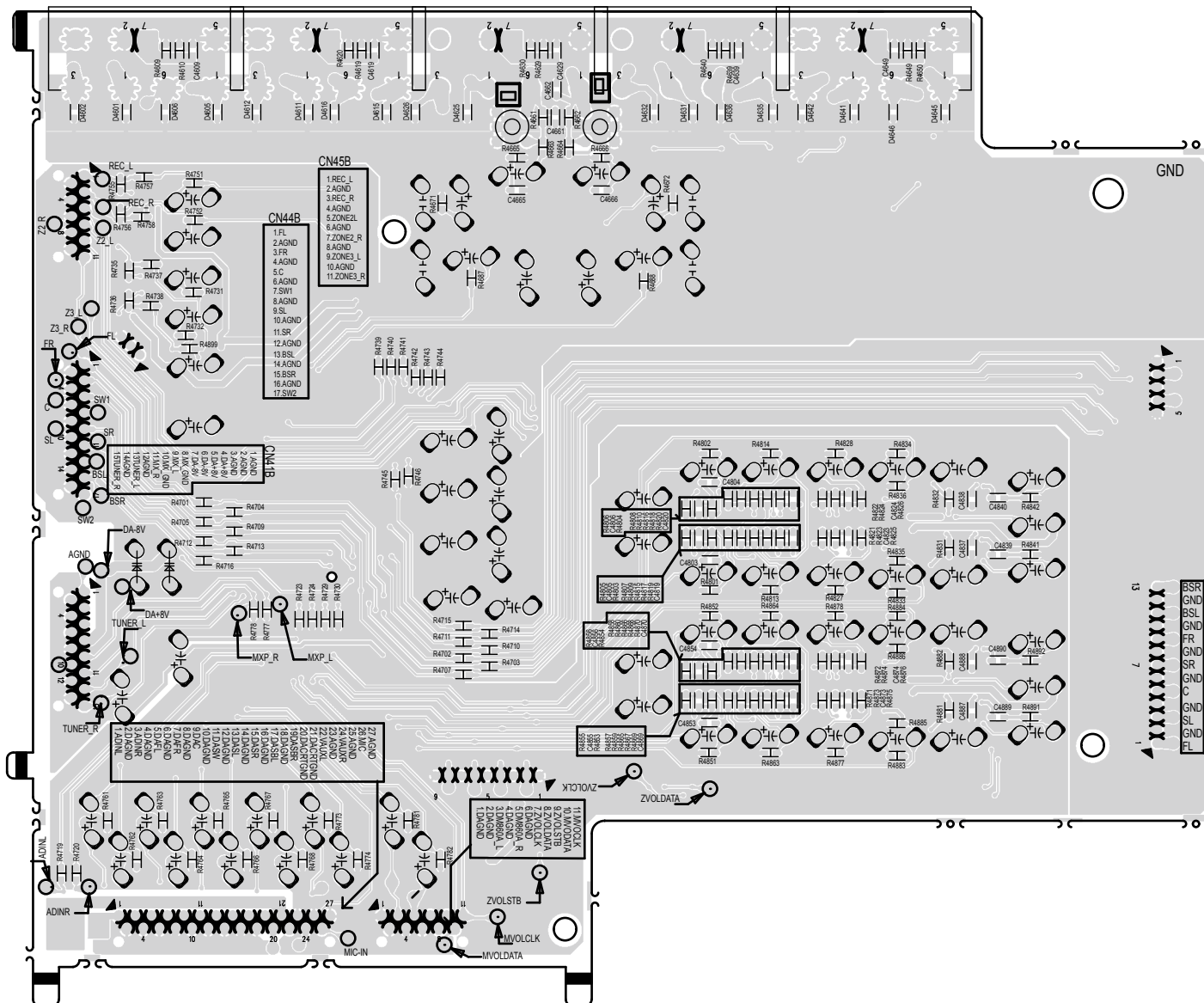
Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).







**INPUT
(FOIL 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).

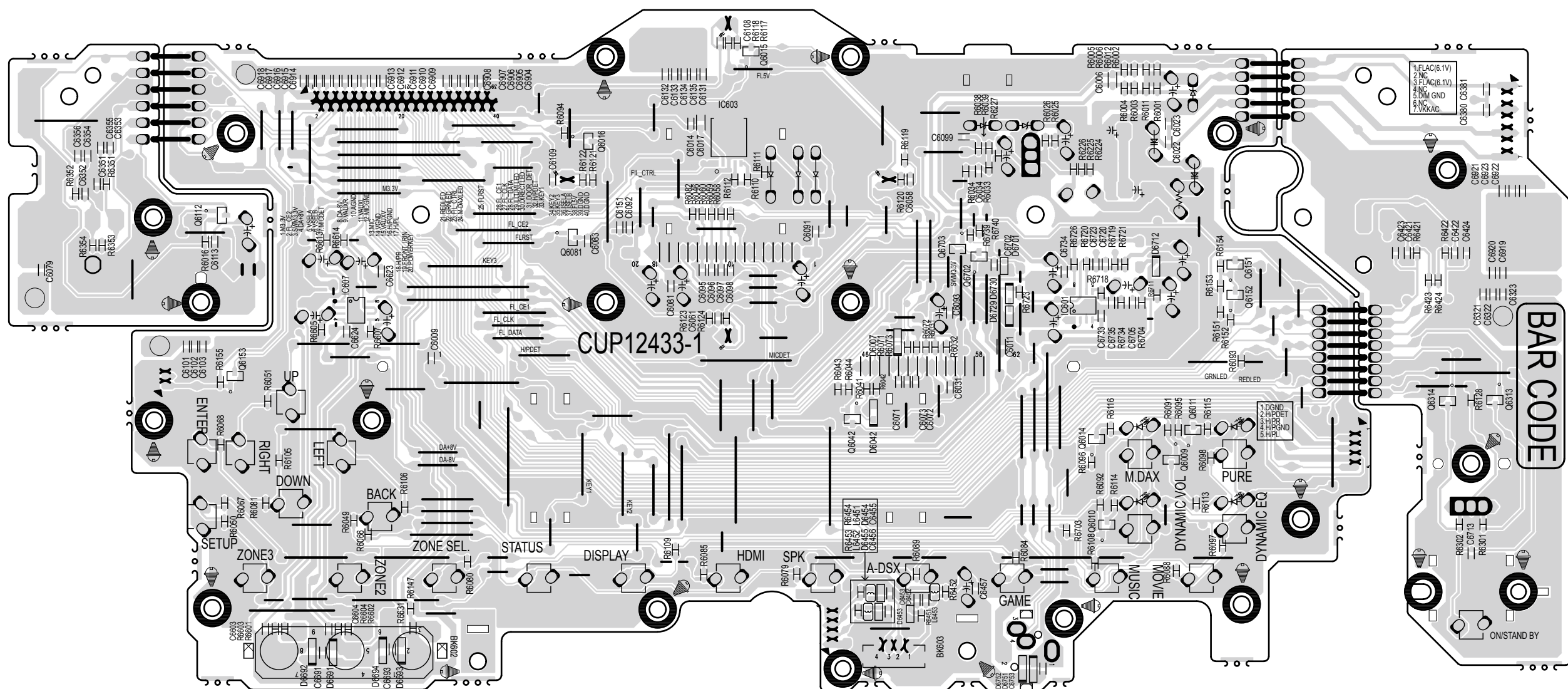
The image is a detailed schematic diagram of a custom PCB layout. The board is populated with numerous components, including integrated circuits (ICs), capacitors, resistors, and connectors. Key features include:

- Left Side:** A 'DIPPING IN' section with a switch and a 'VR604' potentiometer. A 'Pb' (lead) symbol is present.
- Center:** A large 'CUP12433-1' component, likely a microcontroller or processor. It is surrounded by various capacitors and resistors.
- Right Side:** A 'RIGHT ENTER' button and a 'Pb' (lead) symbol. A 'VR601' potentiometer is also located here.
- Bottom:** A 'DYNAMIC EQ' section with a switch and a 'VR604' potentiometer. A 'Pb' (lead) symbol is present.
- Connectors:** Numerous connectors are labeled, including J6001 through J6029, J6030 through J6039, J6040 through J6049, J6050 through J6059, J6060 through J6069, J6070 through J6079, J6080 through J6089, J6090 through J6099, J6100 through J6109, J6110 through J6119, J6120 through J6129, J6130 through J6139, J6140 through J6149, J6150 through J6159, J6160 through J6169, J6170 through J6179, J6180 through J6189, J6190 through J6199, J6200 through J6209, J6210 through J6219, J6220 through J6229, J6230 through J6239, J6240 through J6249, J6250 through J6259, J6260 through J6269, J6270 through J6279, J6280 through J6289, J6290 through J6299, J6300 through J6309, J6310 through J6319, J6320 through J6329, J6330 through J6339, J6340 through J6349, J6350 through J6359, J6360 through J6369, J6370 through J6379, J6380 through J6389, J6390 through J6399, J6400 through J6409, J6410 through J6419, J6420 through J6429, J6430 through J6439, J6440 through J6449, J6450 through J6459, J6460 through J6469, J6470 through J6479, J6480 through J6489, J6490 through J6499, J6500 through J6509, J6510 through J6519, J6520 through J6529, J6530 through J6539, J6540 through J6549, J6550 through J6559, J6560 through J6569, J6570 through J6579, J6580 through J6589, J6590 through J6599, J6600 through J6609, J6610 through J6619, J6620 through J6629, J6630 through J6639, J6640 through J6649, J6650 through J6659, J6660 through J6669, J6670 through J6679, J6680 through J6689, J6690 through J6699, J6700 through J6709, J6710 through J6719, J6720 through J6729, J6730 through J6739, J6740 through J6749, J6750 through J6759, J6760 through J6769, J6770 through J6779, J6780 through J6789, J6790 through J6799, J6800 through J6809, J6810 through J6819, J6820 through J6829, J6830 through J6839, J6840 through J6849, J6850 through J6859, J6860 through J6869, J6870 through J6879, J6880 through J6889, J6890 through J6899, J6900 through J6909, J6910 through J6919, J6920 through J6929, J6930 through J6939, J6940 through J6949, J6950 through J6959, J6960 through J6969, J6970 through J6979, J6980 through J6989, J6990 through J6999, J7000 through J7009, J7010 through J7019, J7020 through J7029, J7030 through J7039, J7040 through J7049, J7050 through J7059, J7060 through J7069, J7070 through J7079, J7080 through J7089, J7090 through J7099, J7100 through J7109, J7110 through J7119, J7120 through J7129, J7130 through J7139, J7140 through J7149, J7150 through J7159, J7160 through J7169, J7170 through J7179, J7180 through J7189, J7190 through J7199, J7200 through J7209, J7210 through J7219, J7220 through J7229, J7230 through J7239, J7240 through J7249, J7250 through J7259, J7260 through J7269, J7270 through J7279, J7280 through J7289, J7290 through J7299, J7300 through J7309, J7310 through J7319, J7320 through J7329, J7330 through J7339, J7340 through J7349, J7350 through J7359, J7360 through J7369, J7370 through J7379, J7380 through J7389, J7390 through J7399, J7400 through J7409, J7410 through 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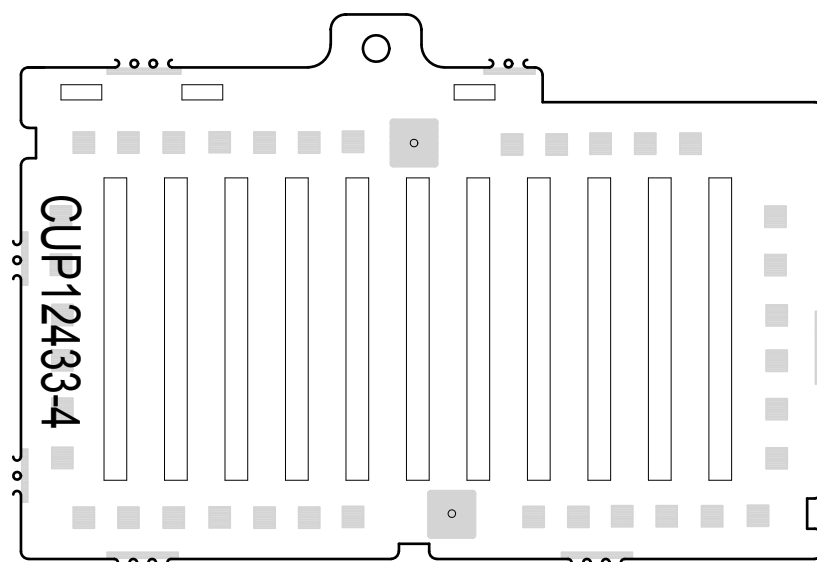
134

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

FRONT
(FOIL SIDE)



GUIDE FRONT FFC
(FOIL 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。

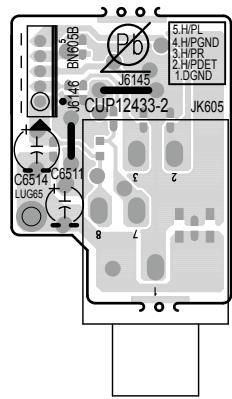
Lead-free Solder

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

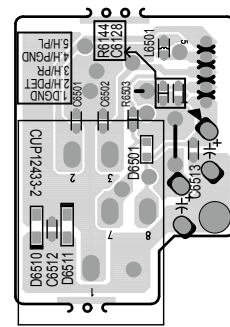
A
B
C
D
E
F
G
H
I
J
K
L
M

A horizontal number line with 18 tick marks labeled 1 through 18. The line is black and the numbers are in a bold, black, sans-serif font.

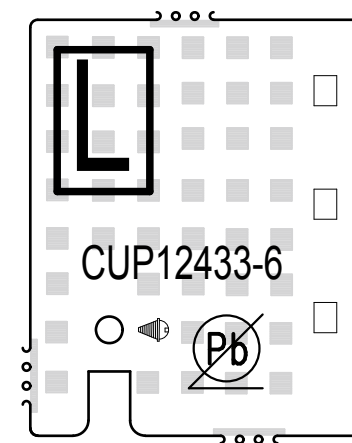
**HP
(COMPONENT SIDE)**



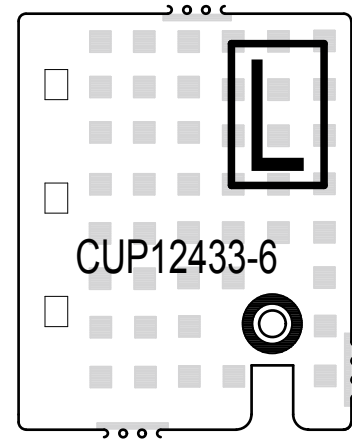
**HP
(FOIL SIDE)**



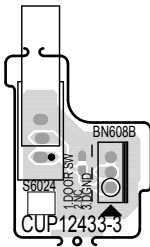
GUIDE L (COMPONENT SIDE)



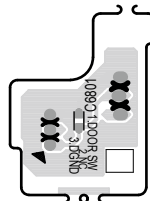
**GUIDE L
(FOIL SIDE)**



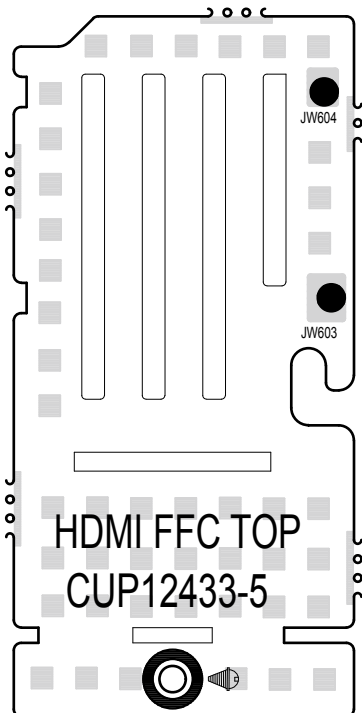
**DOOR DET
(COMPONENT SIDE)**



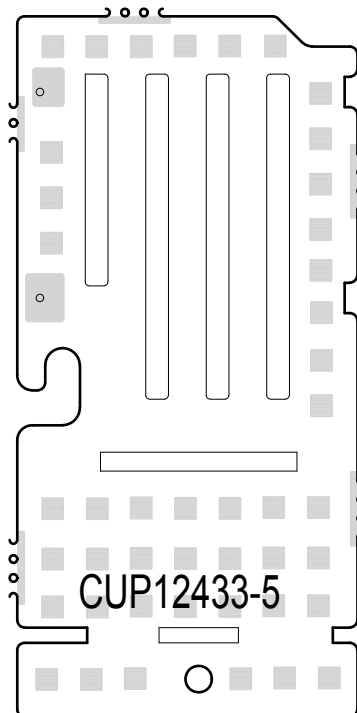
**DOOR DET
(FOIL SIDE)**



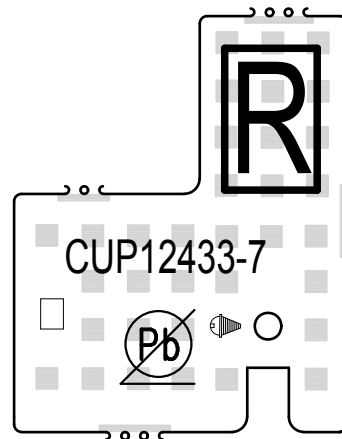
FRONT HDMI FFC (COMPONENT SIDE)



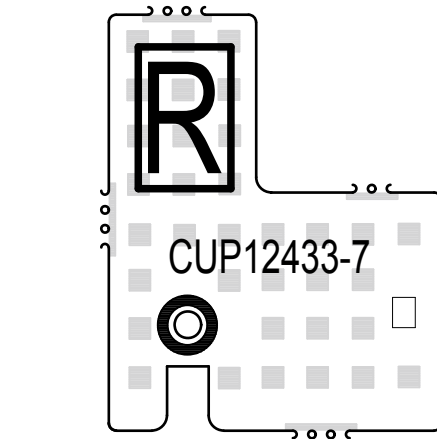
FRONT HDMI FFC (FOIL SIDE)



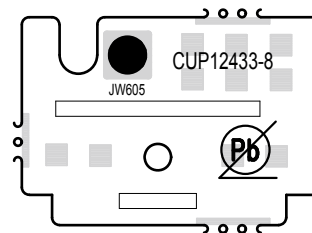
GUIDE R (COMPONENT SIDE)



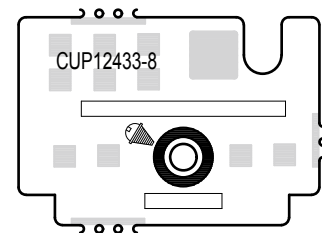
**GUIDE R
(FOIL SIDE)**



FRONT HDMI FFC (COMPONENT SIDE)



FRONT HDMI FFC (FOIL SIDE)



鉛フリー半田

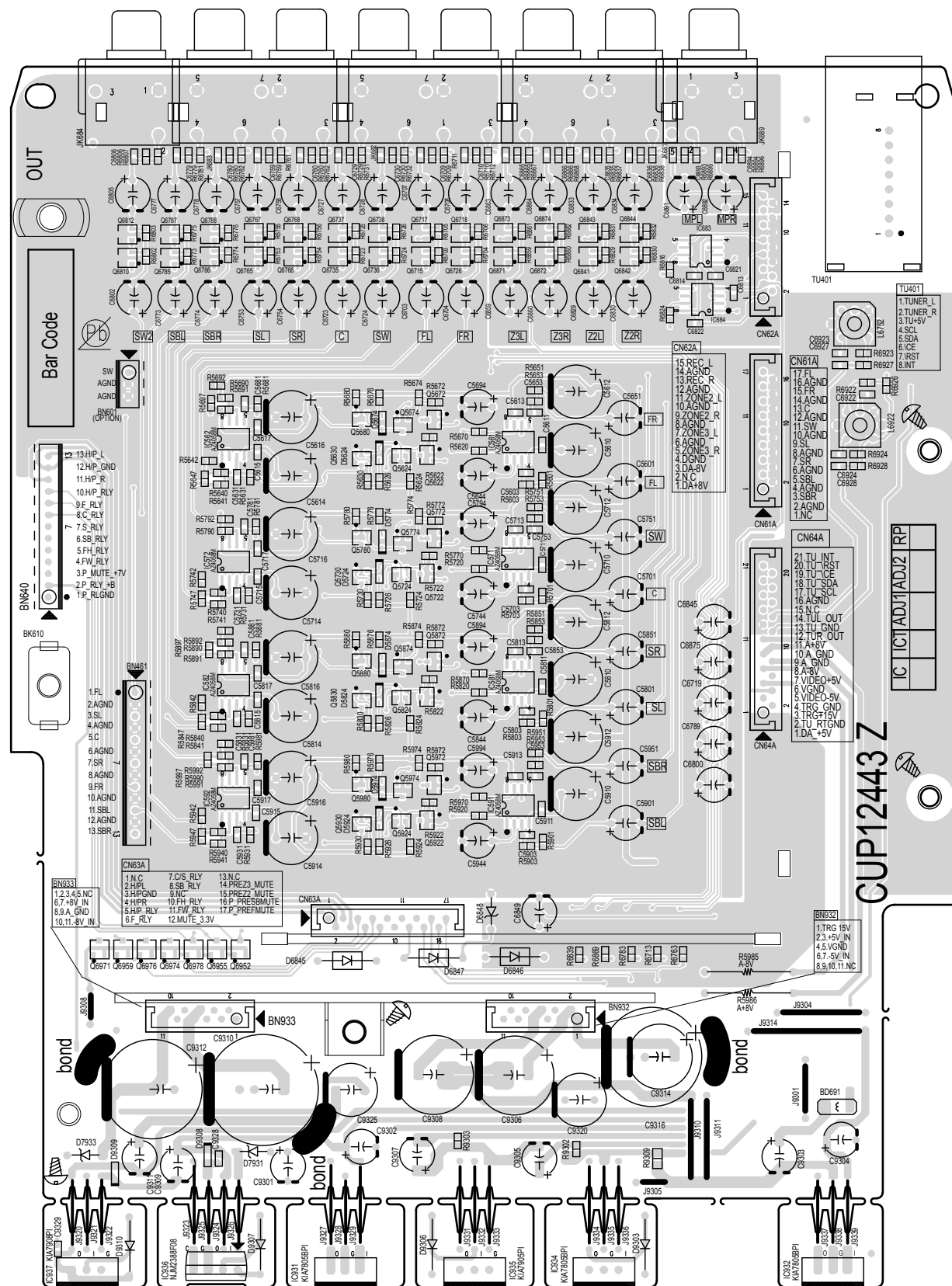
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder

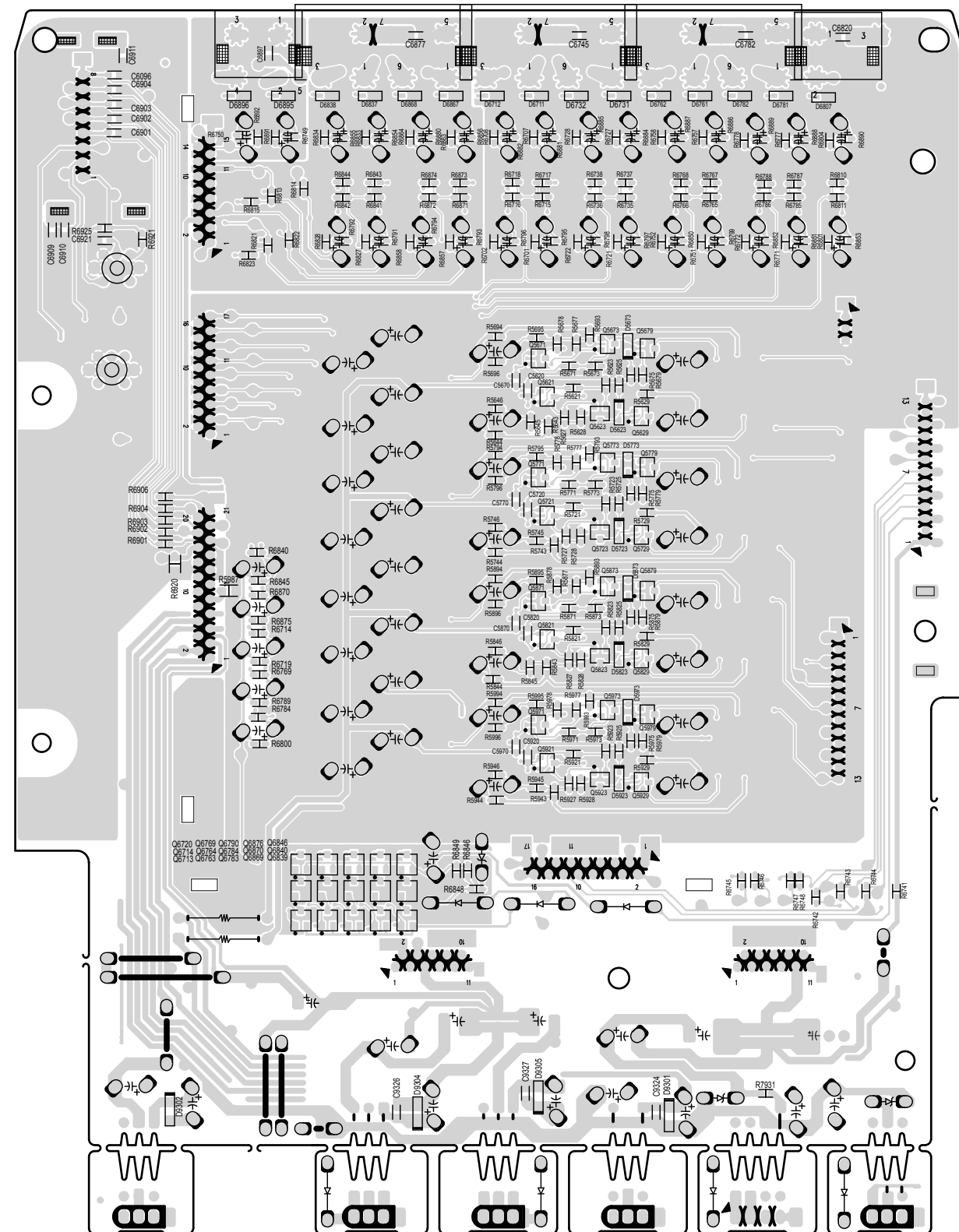
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

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

PREOUT (COMPONENT SIDE)



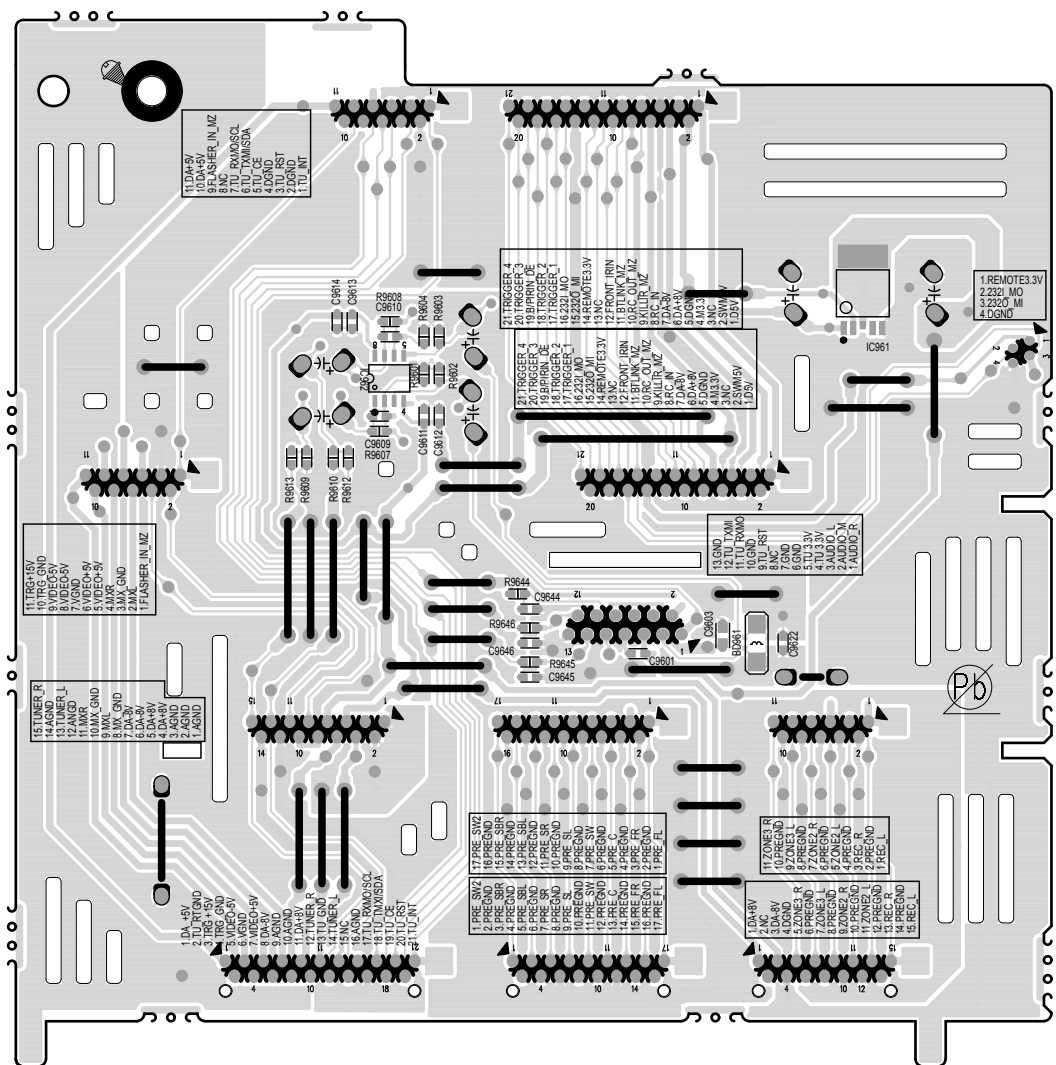
PREOUT (FOIL SIDE)



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。

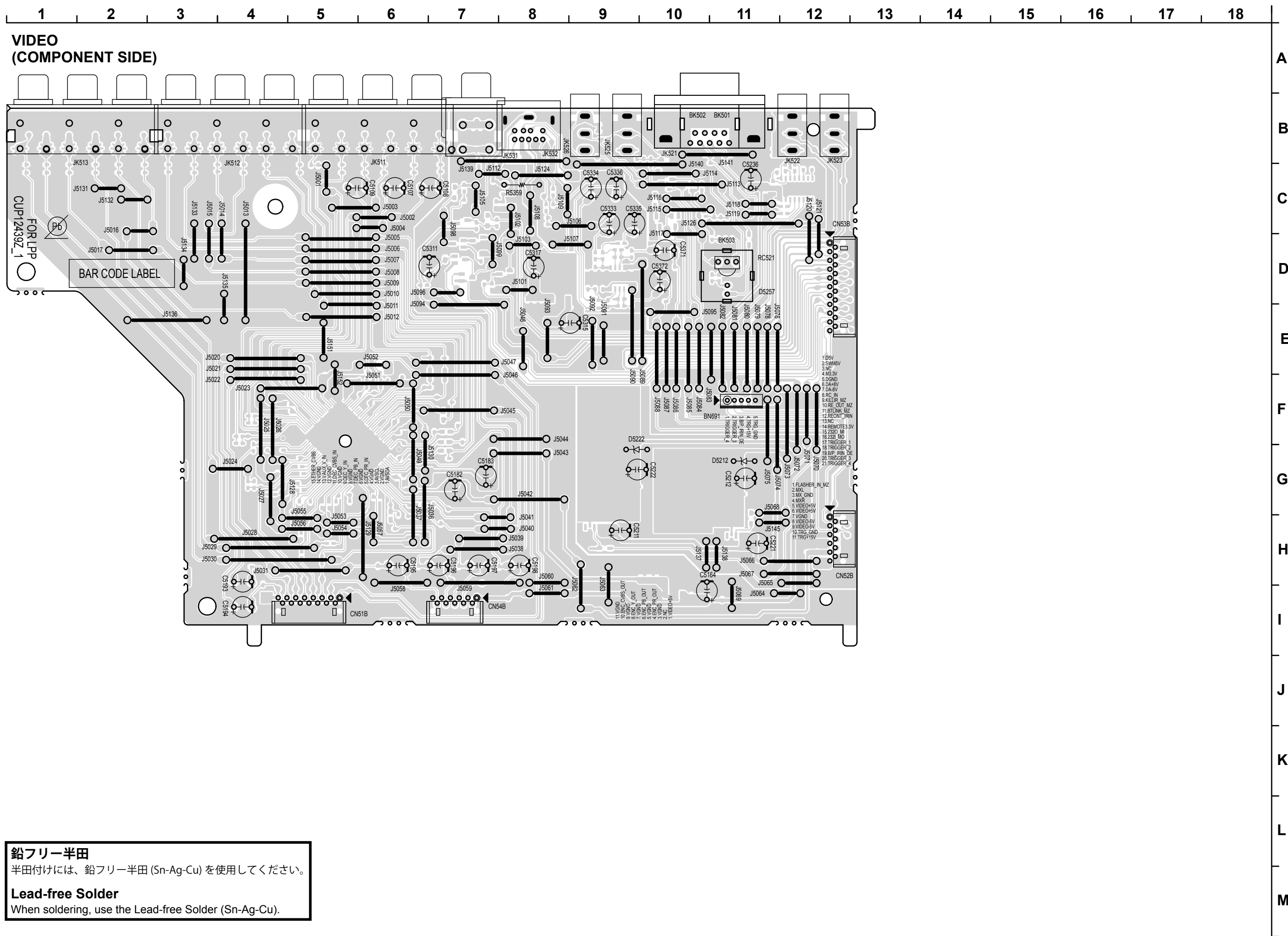
Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

**SIDE CNT
(FOIL 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).

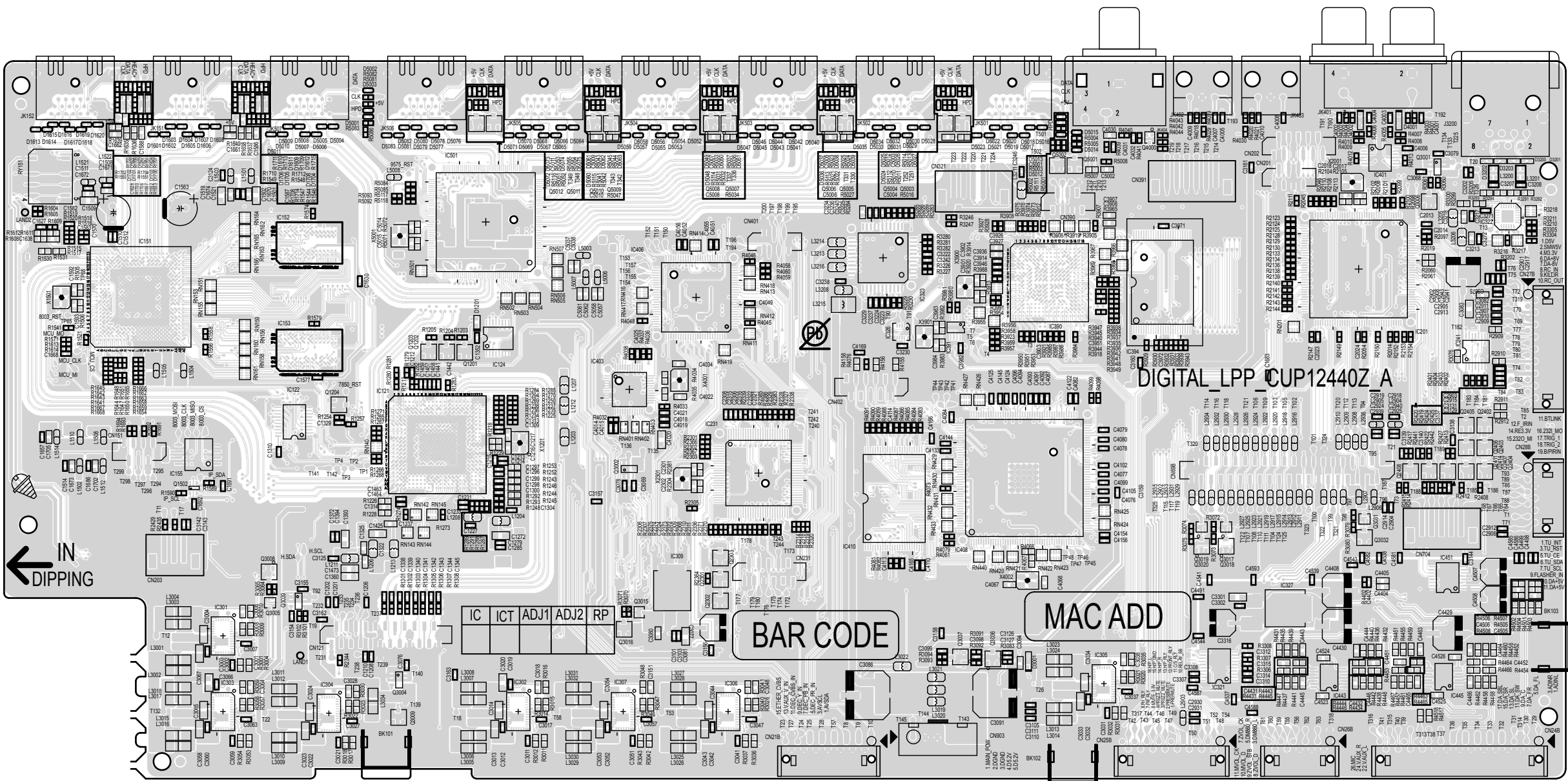
When soldering, use the Lead-free Solder (Sn-Ag-Cu).



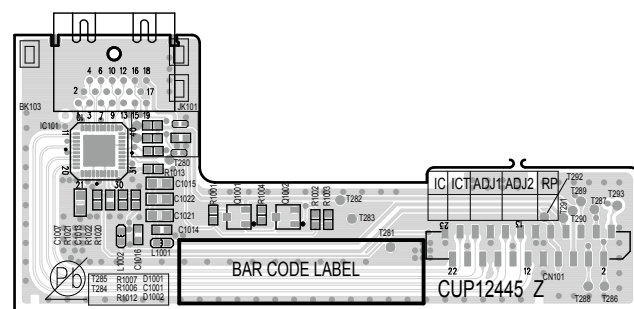
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

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

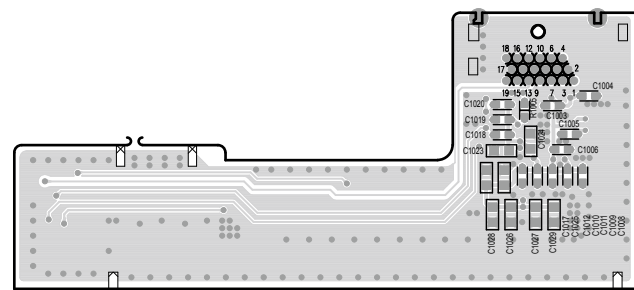
HDMI
(COMPONENT SIDE)



FRONT HDMI
(COMPONENT SIDE)



FRONT HDMI
(FOIL SIDE)

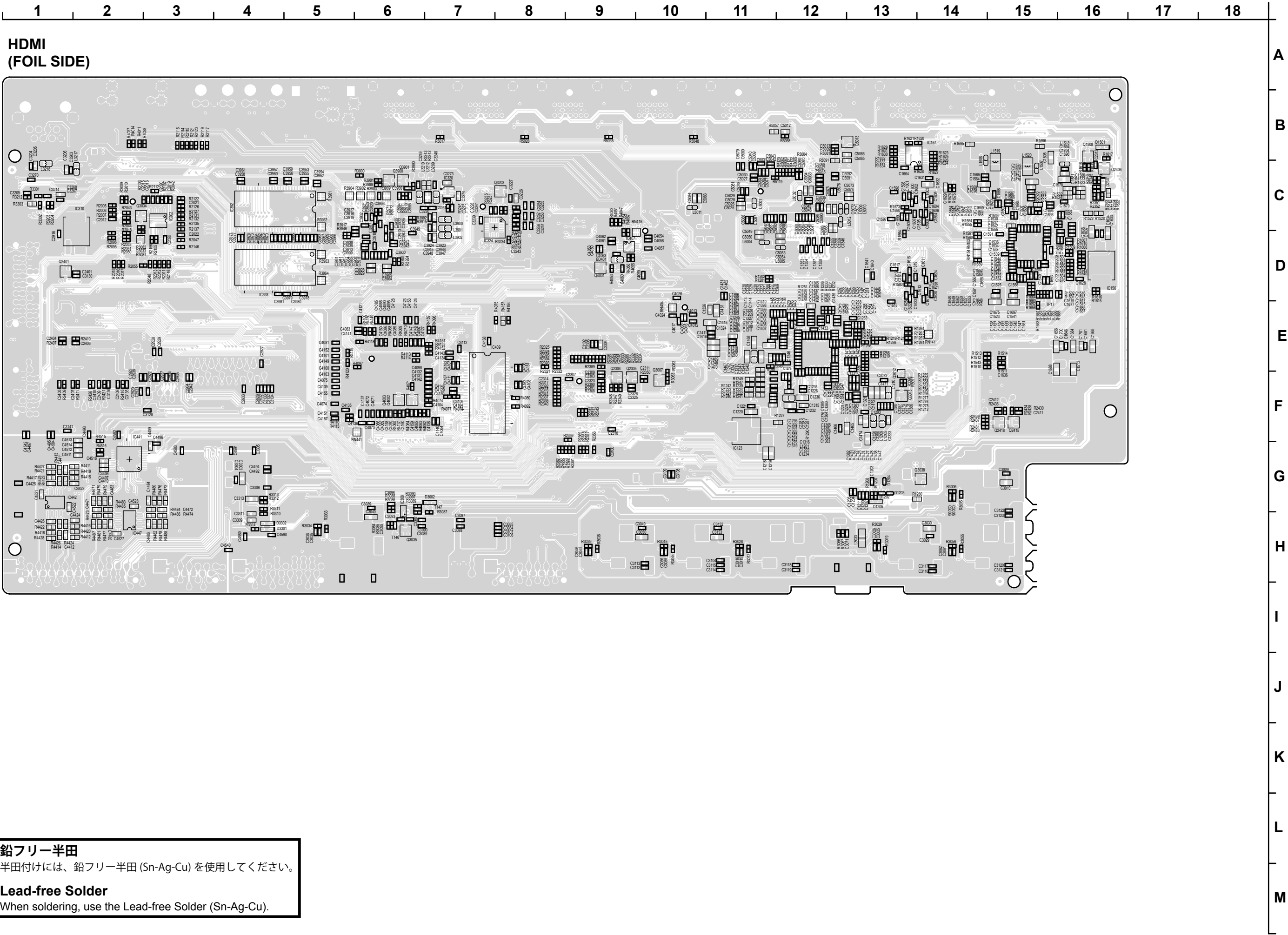


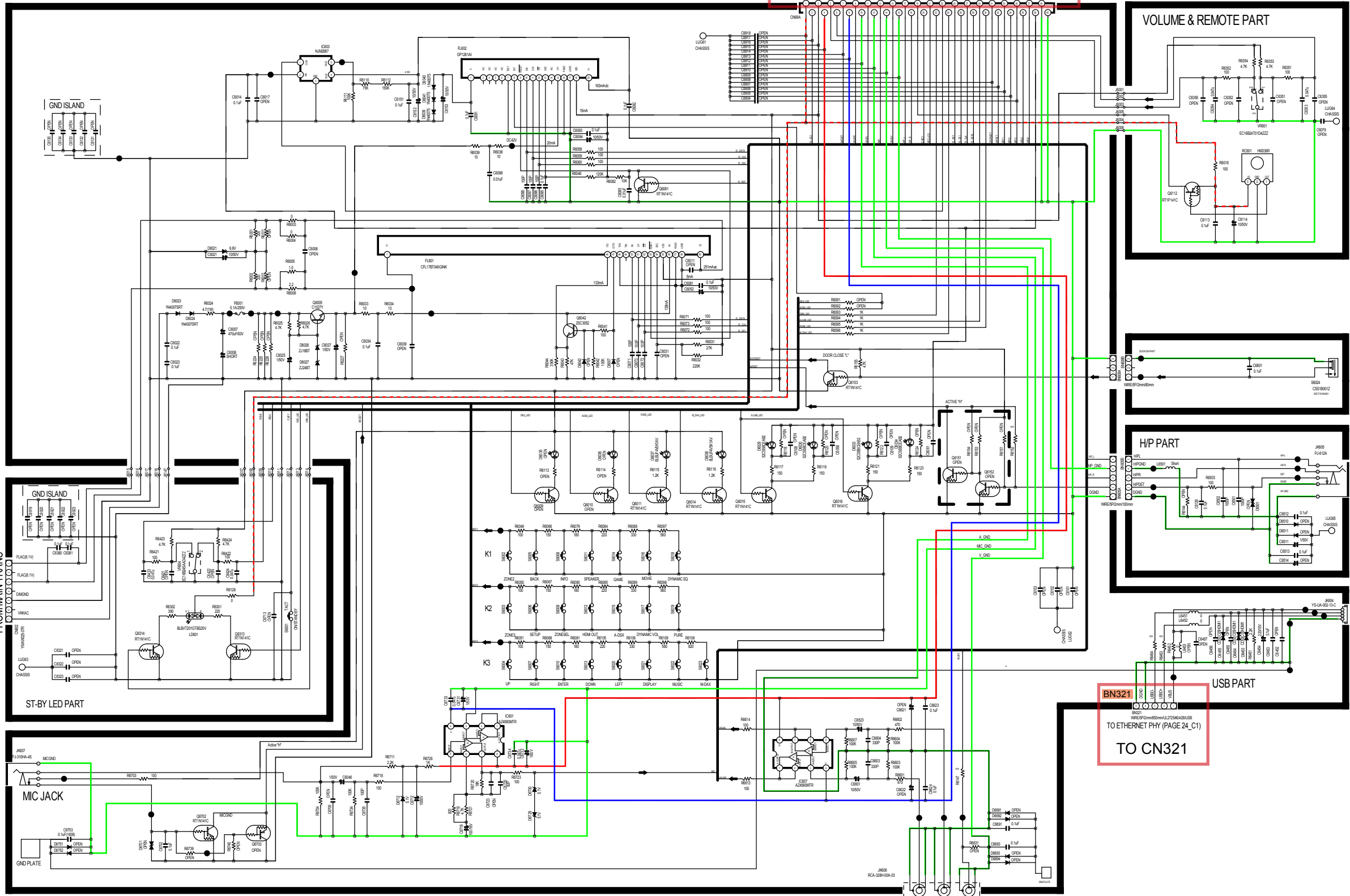
鉛フリー半田

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

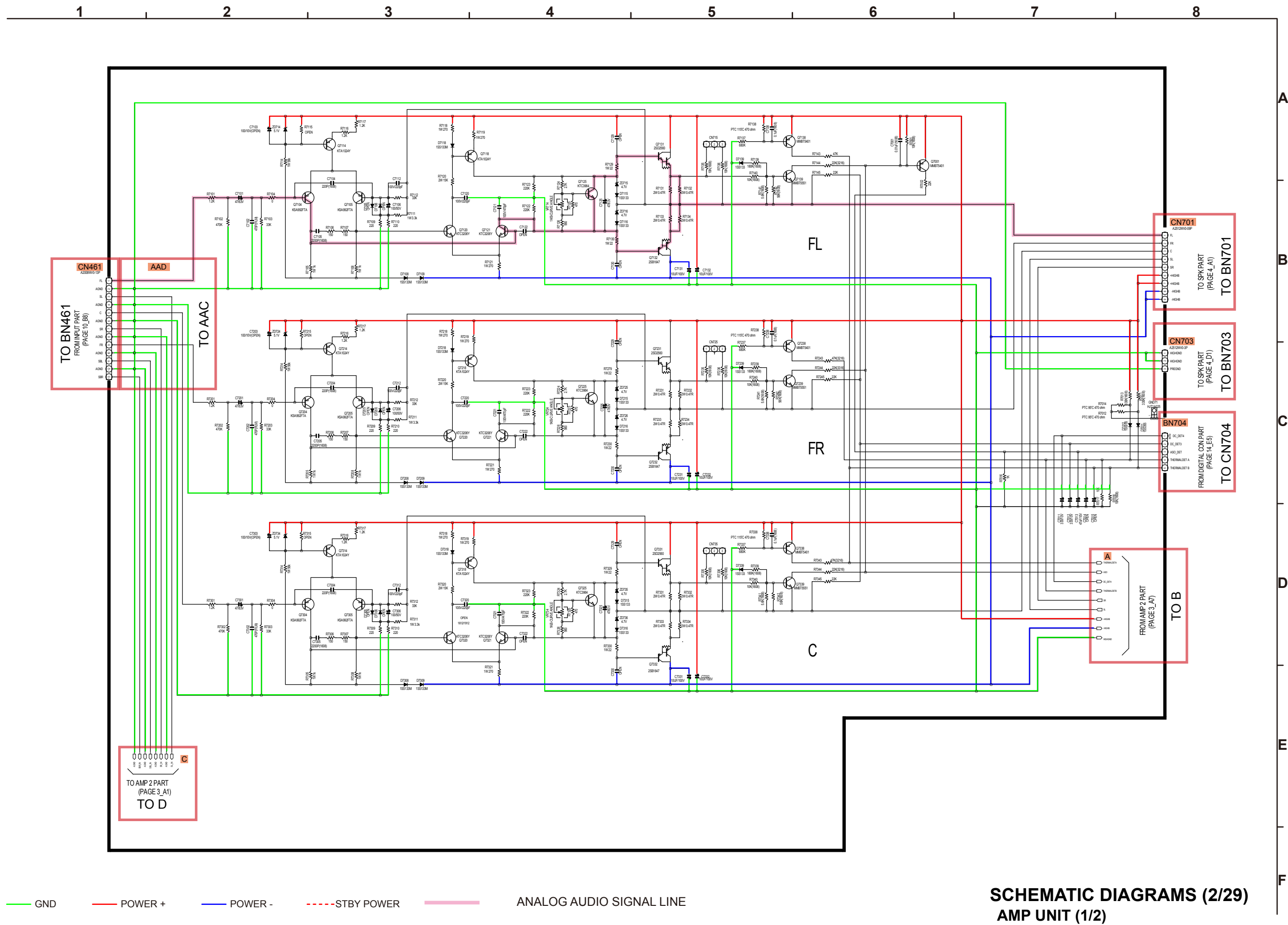
When soldering, use the Lead-free Solder (Sn-Ag-Cu).



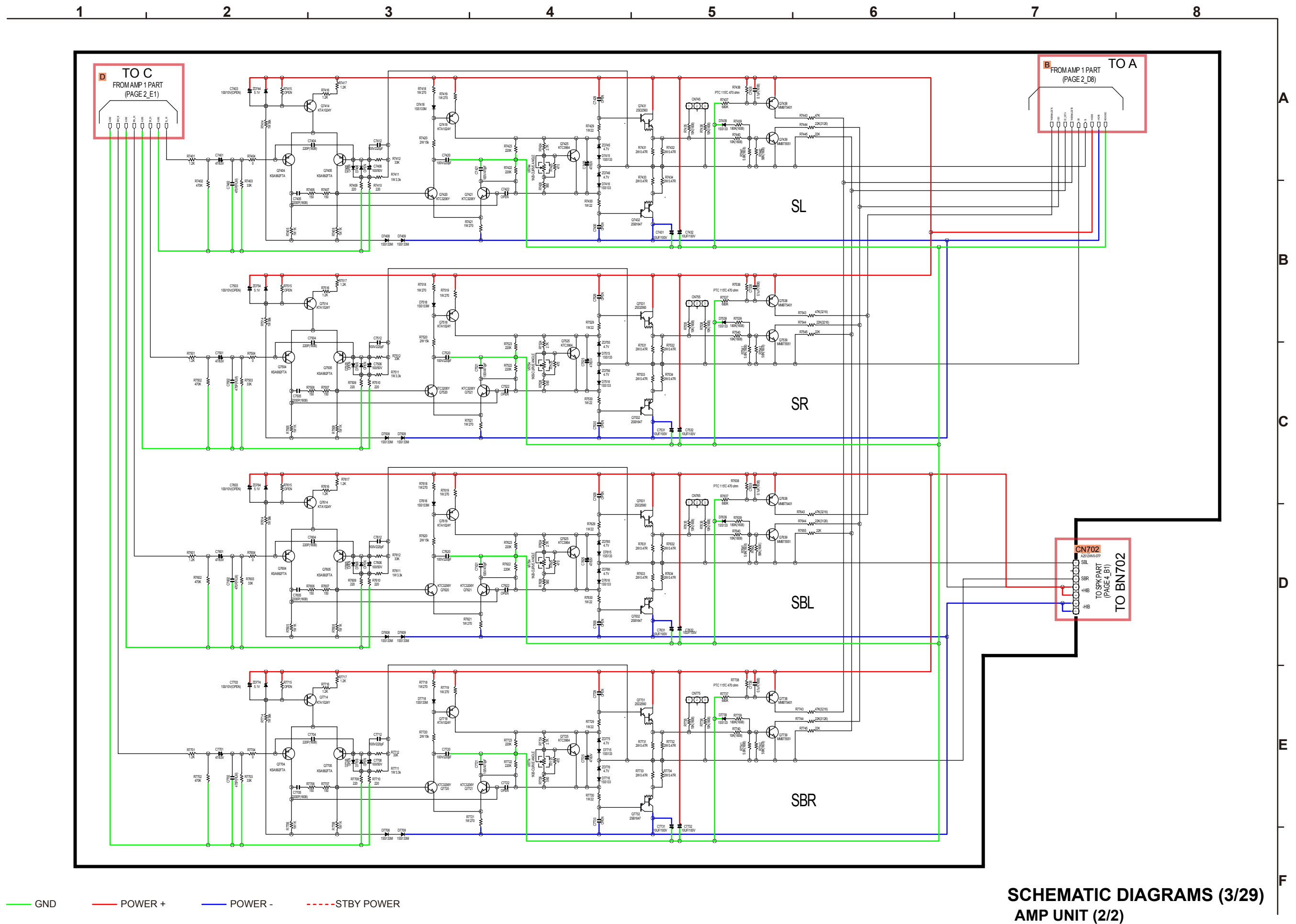


SCHEMATIC DIAGRAMS (1/29)

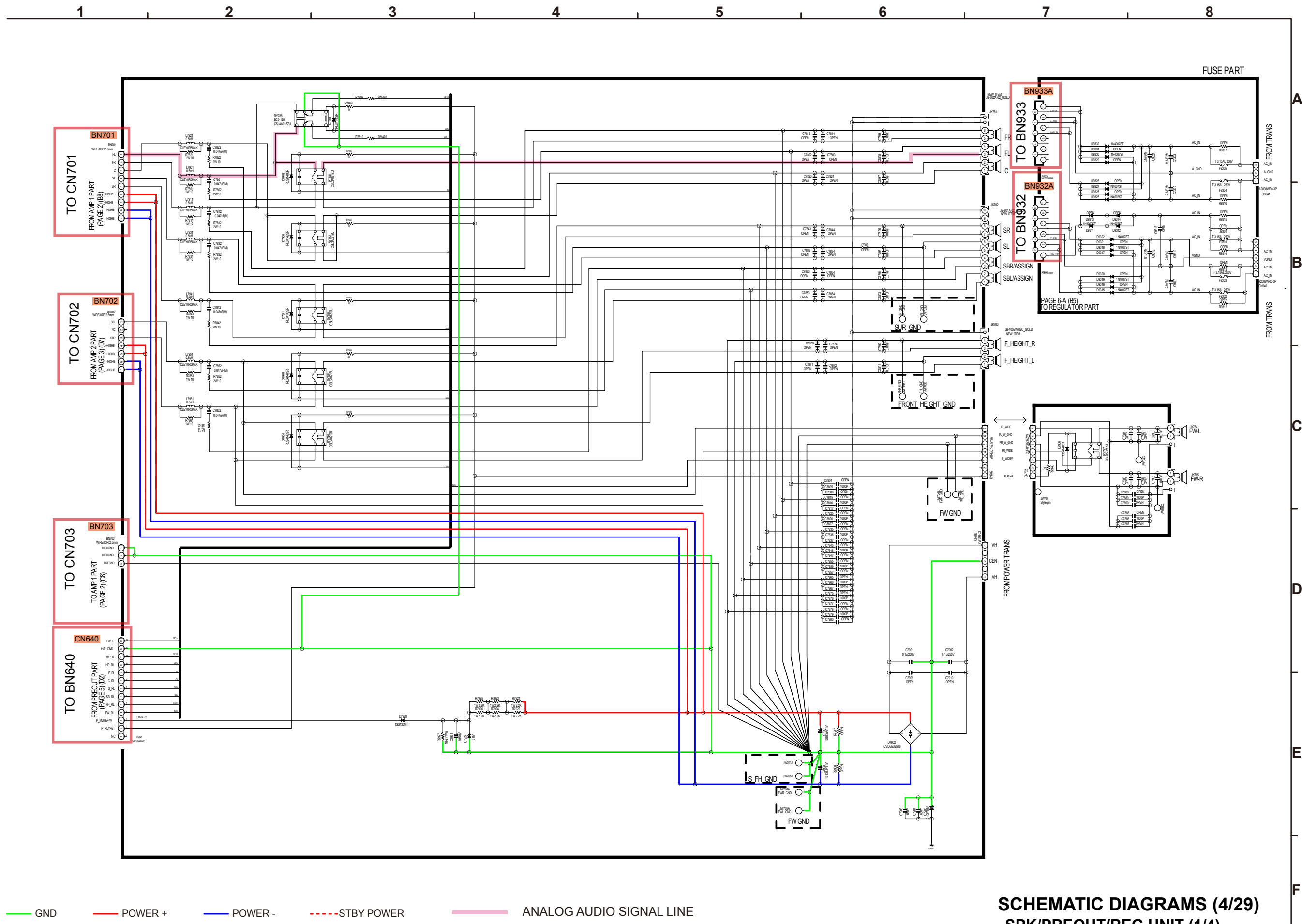
FRONT UNIT



SCHEMATIC DIAGRAMS (2/29)
AMP UNIT (1/2)

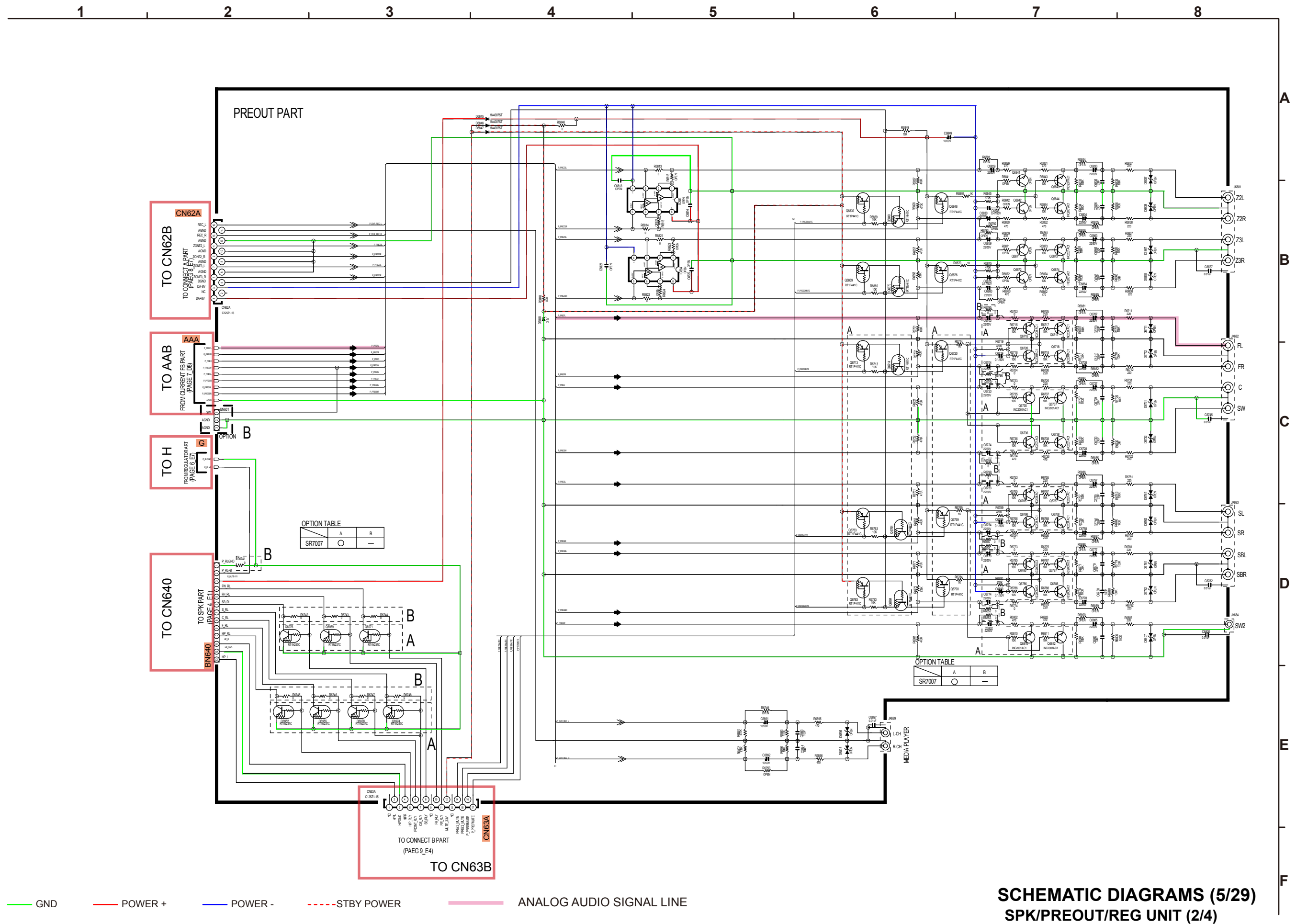


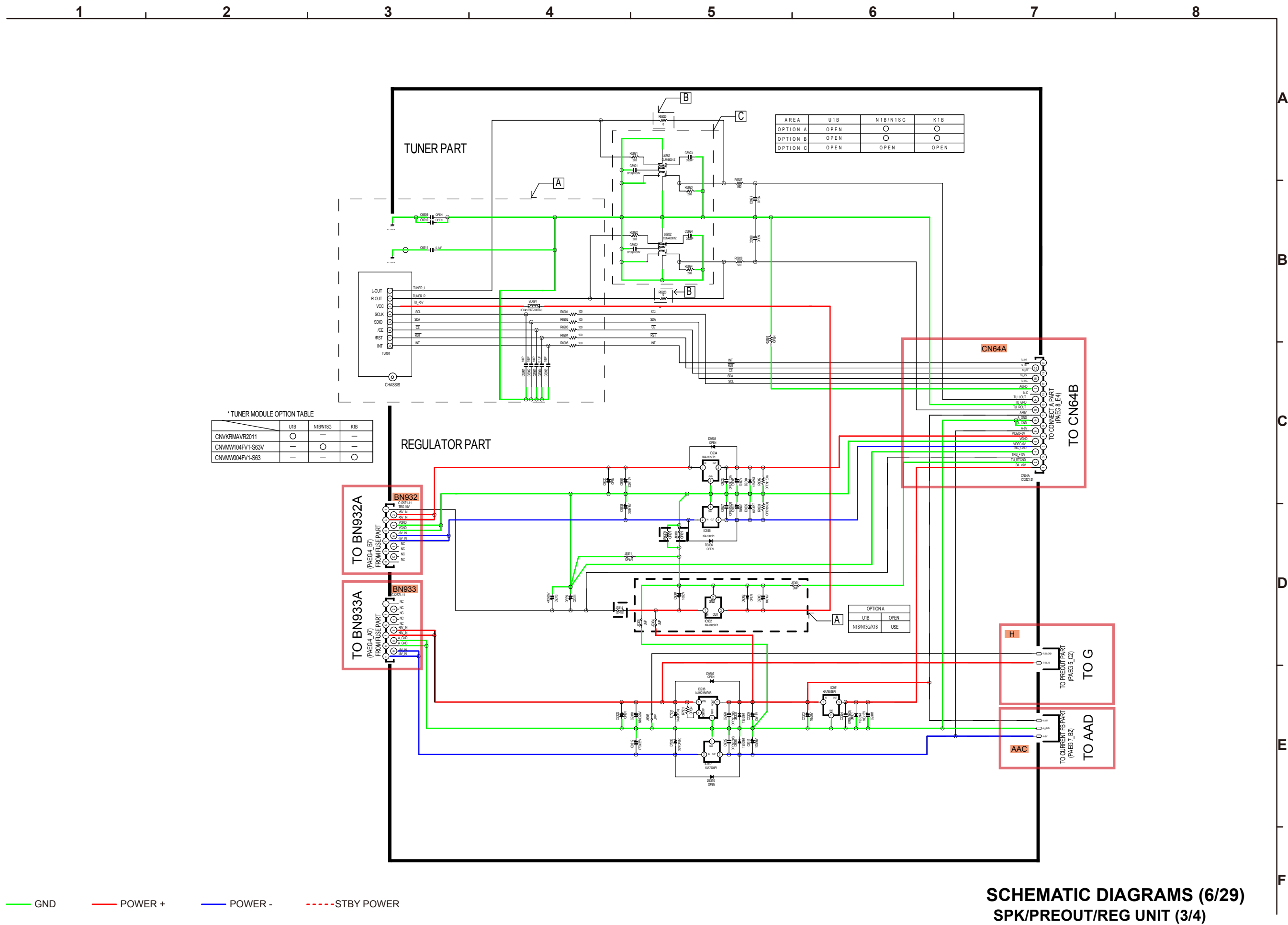
SCHEMATIC DIAGRAMS (3/29)
AMP UNIT (2/2)



— GND
 — POWER +
 — POWER -
 - - - STBY POWER
 — ANALOG AUDIO SIGNAL LINE

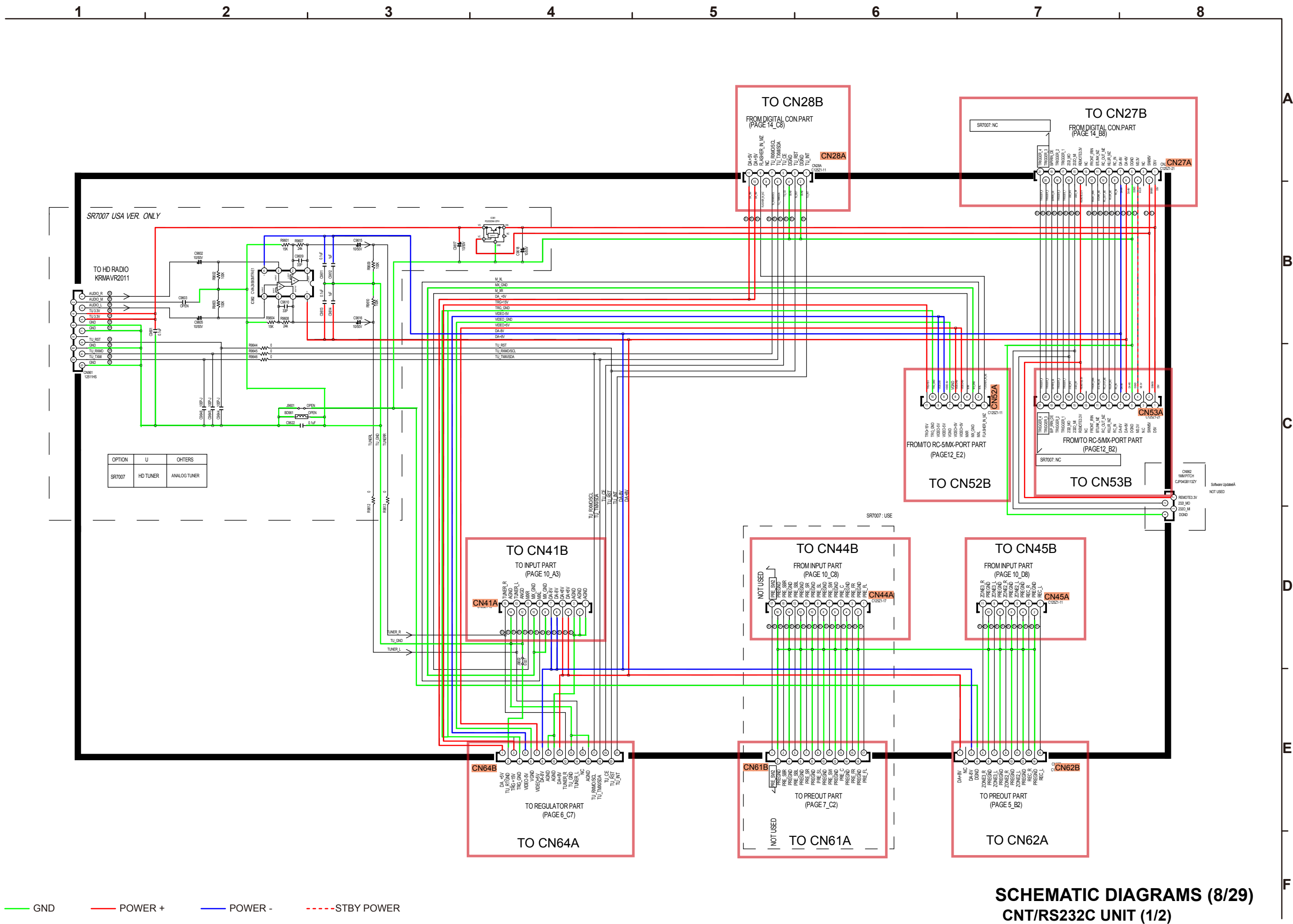
SCHEMATIC DIAGRAMS (4/29)
SPK/PREOUT/REG UNIT (1/4)





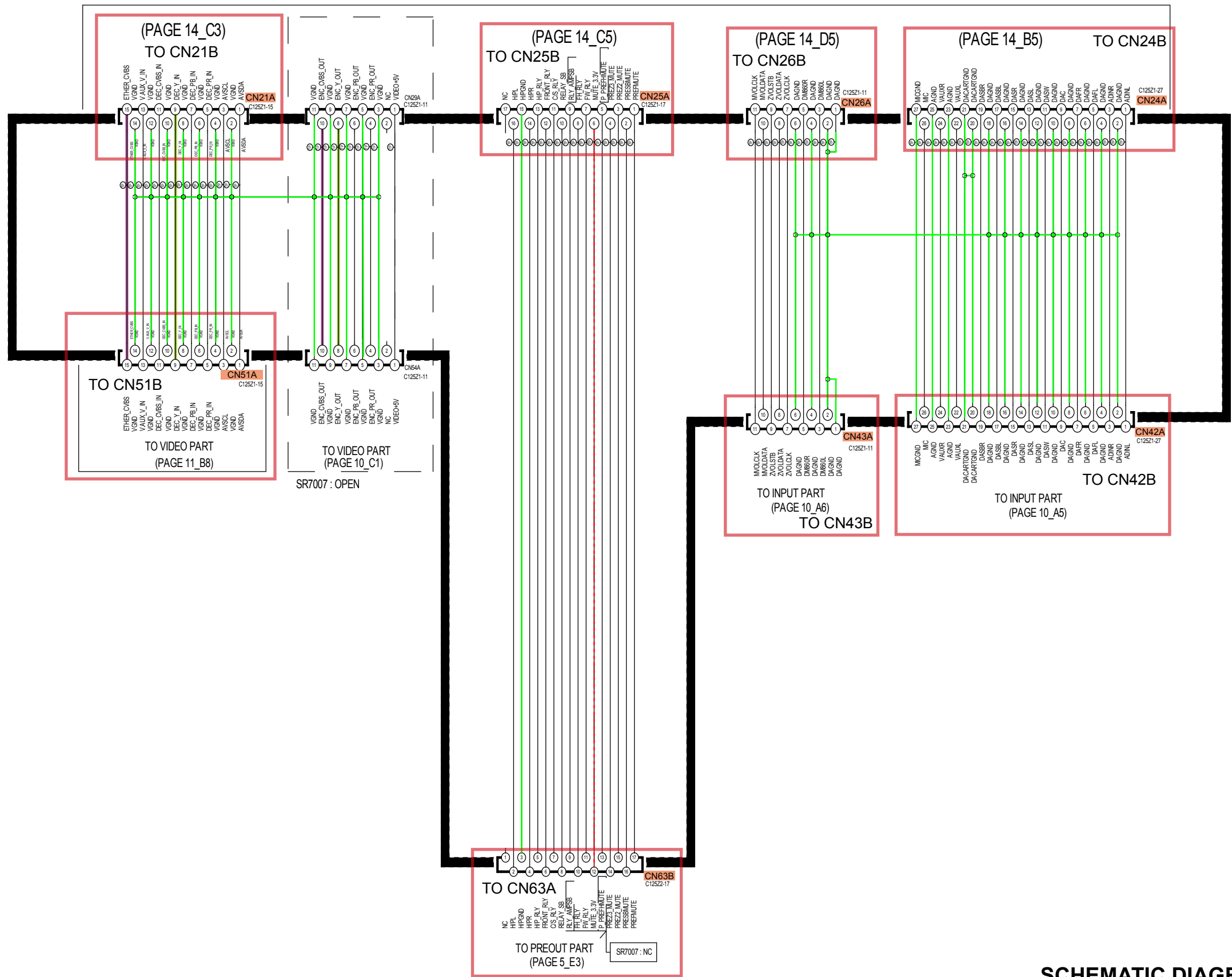
— GND
 — POWER +
 — POWER -
 --- STBY POWER

SCHEMATIC DIAGRAMS (6/29)
SPK/PREOUT/REG UNIT (3/4)



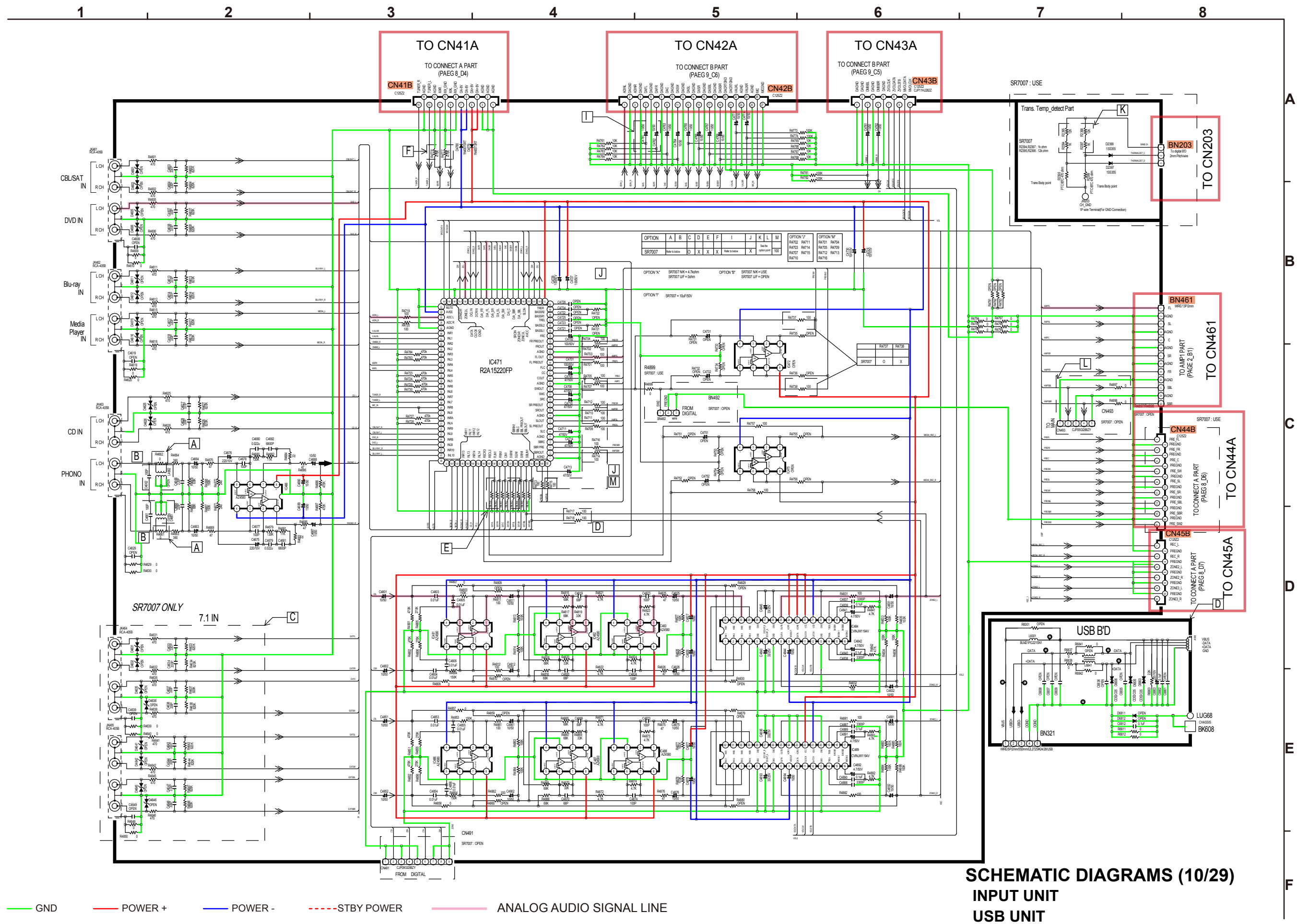
SCHEMATIC DIAGRAMS (8/29)
CNT/RS232C UNIT (1/2)

FROM/TO DIGITAL CON. PART
(PAGE 14)

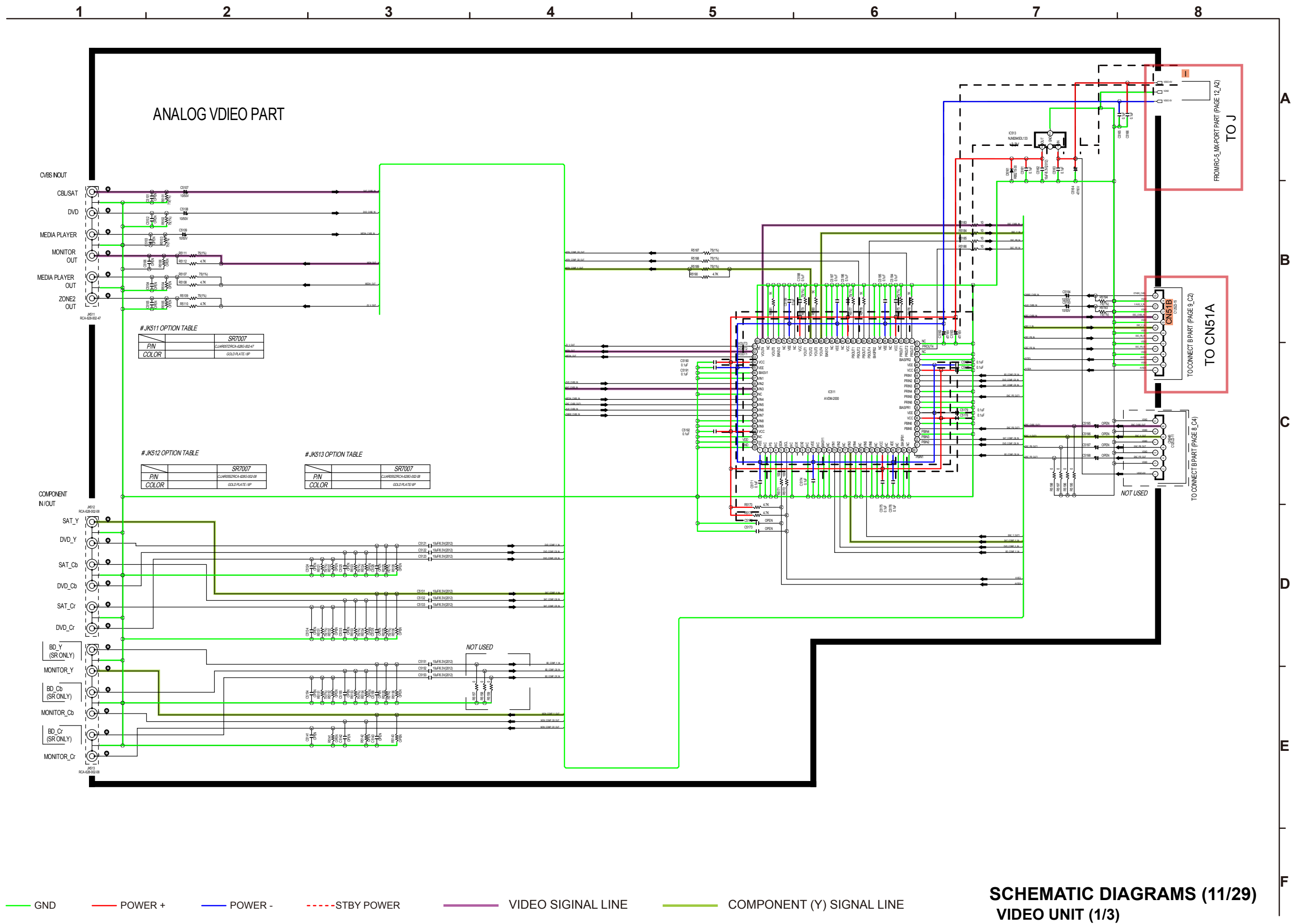


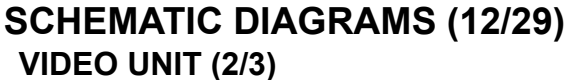
— GND — POWER + — POWER - - - - - STBY POWER — VIDEO SIGNAL LINE — COMPONENT (Y) SIGNAL LINE

SCHEMATIC DIAGRAMS (9/29)
CNT/RS232C UNIT (2/2)



SCHEMATIC DIAGRAMS (10/29)
INPUT UNIT
USB UNIT

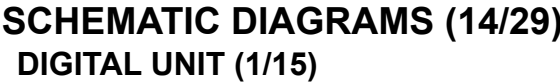


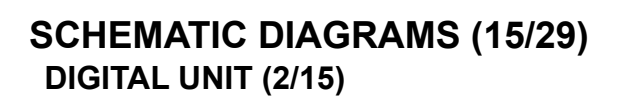


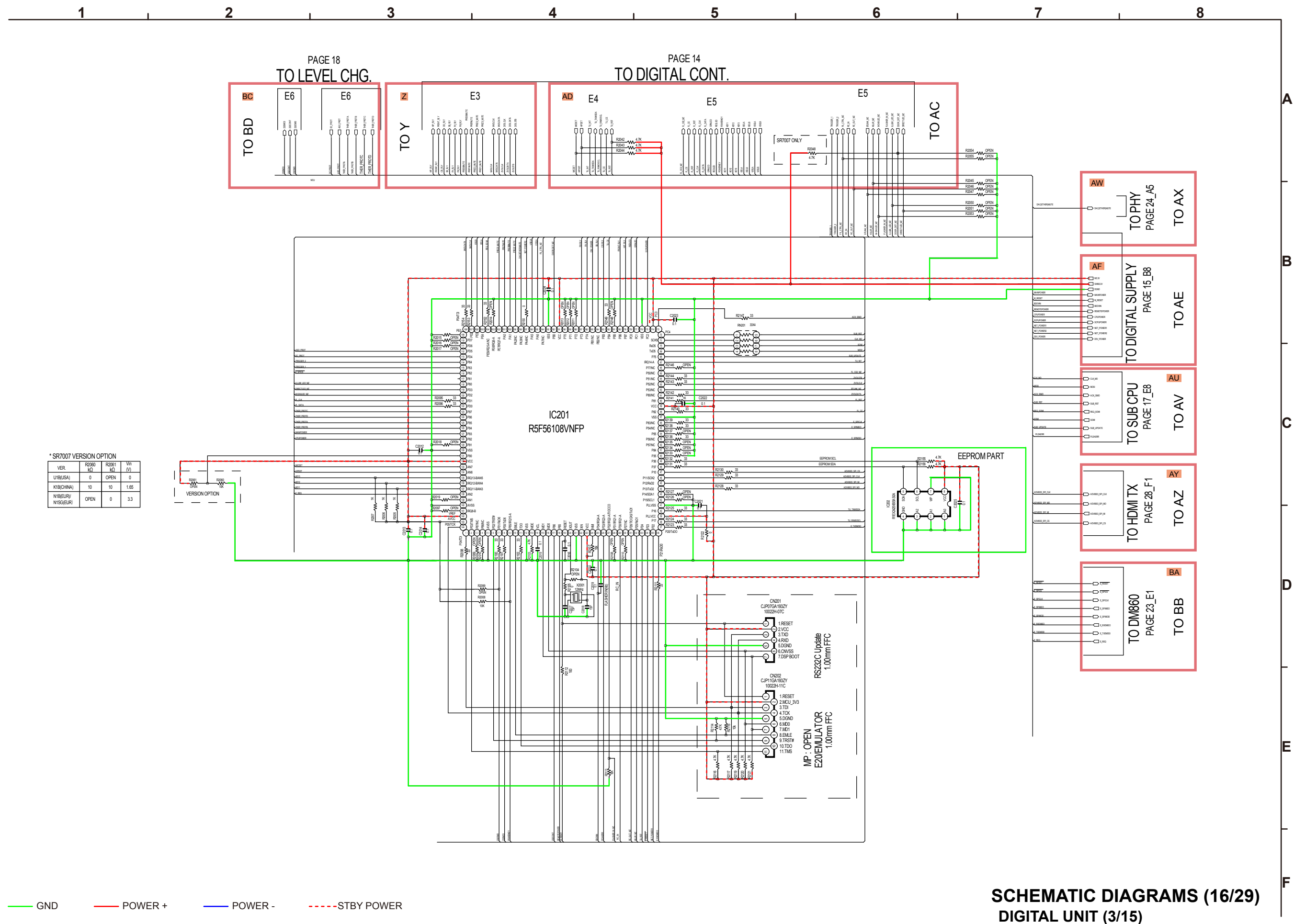
IR / FLASHER

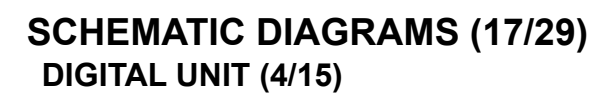
# TRIGGER JACK OPTION		<PN#/ MFG PN#/ Color>
	JK522 (TRGOUT2)	JK523(TRGOUT1)
SR7007	CJJ2D008Z / PJ-308-02 / BLK	CJJ2D008Z / PJ-308-02 / BLK

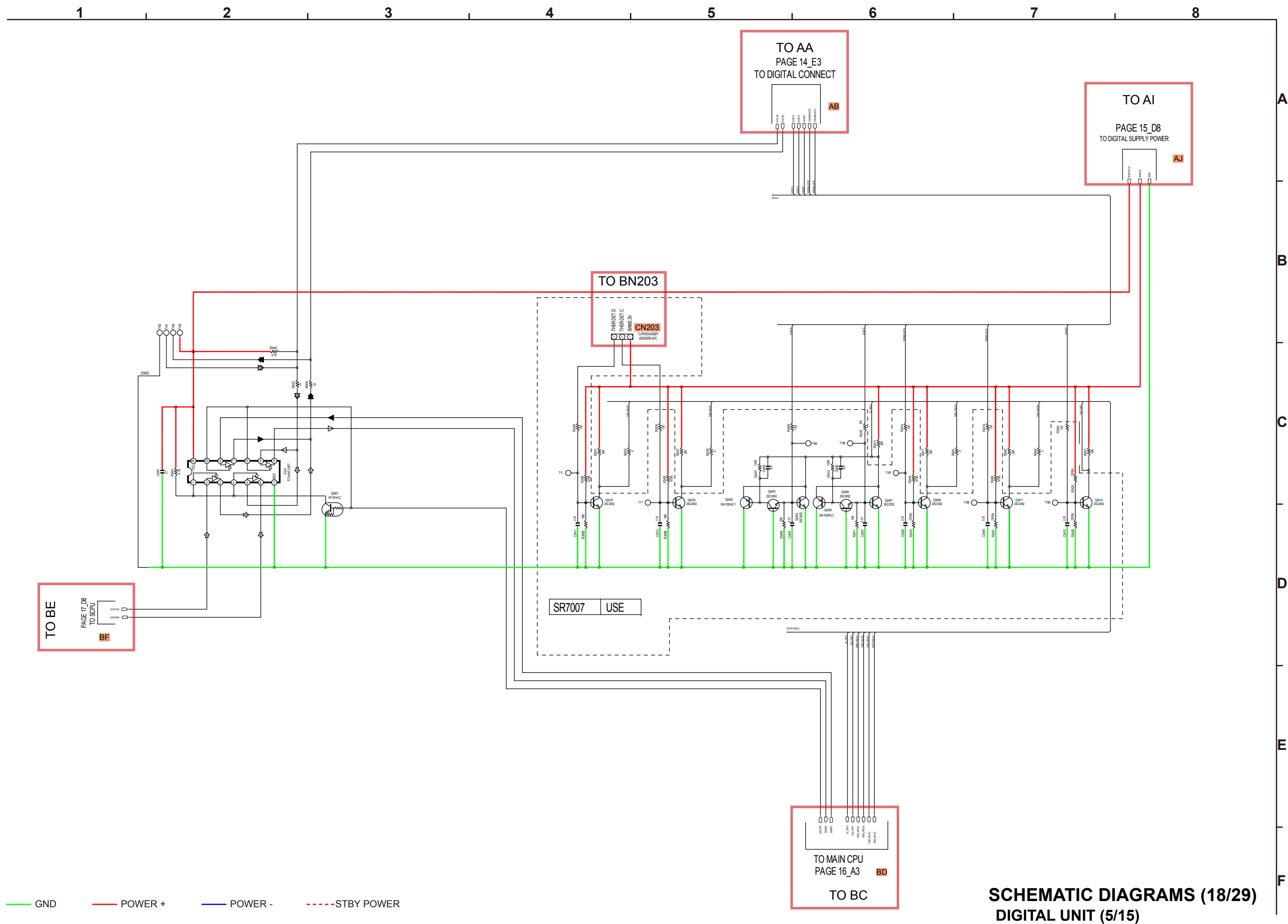


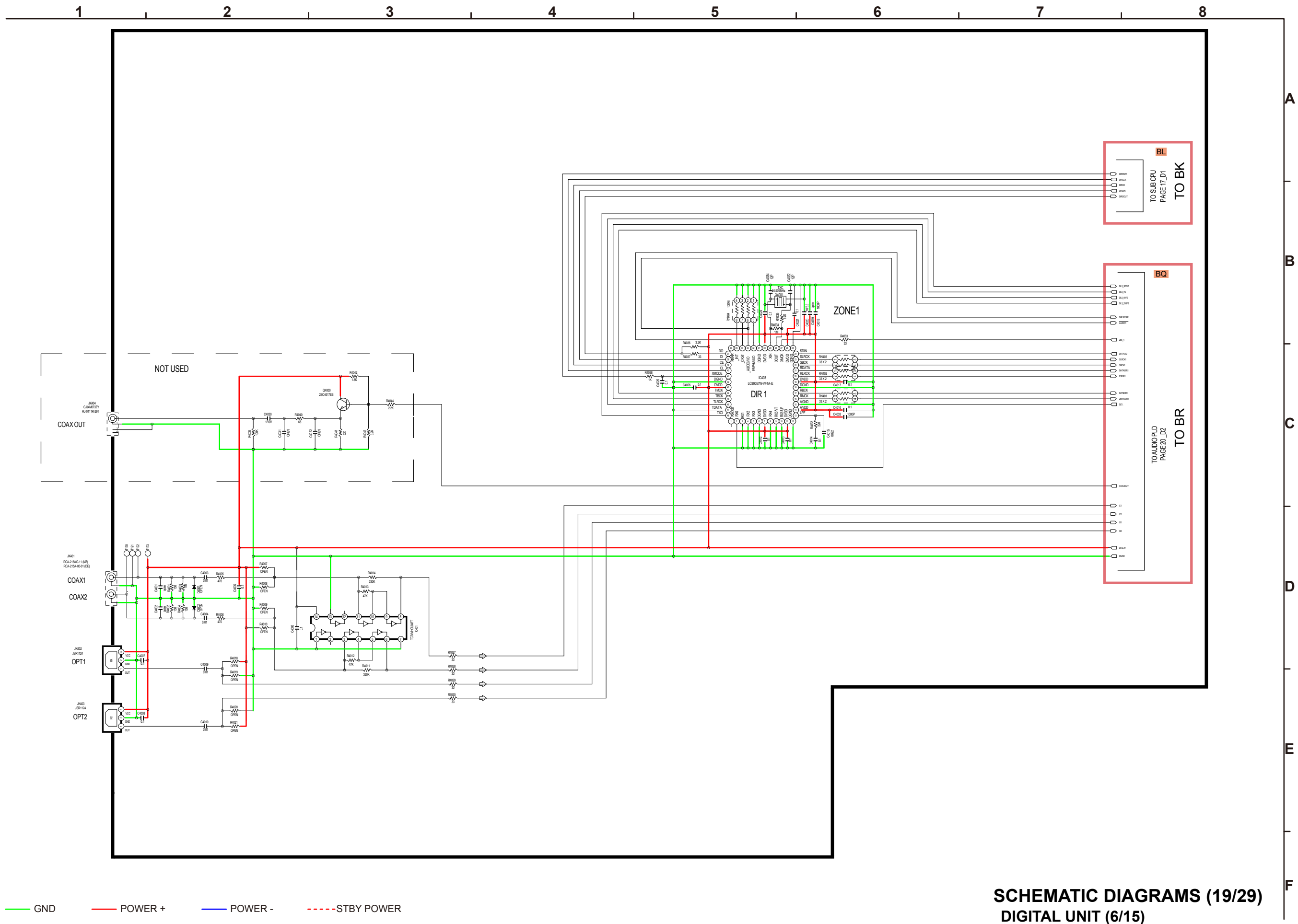




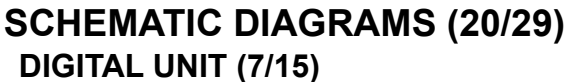


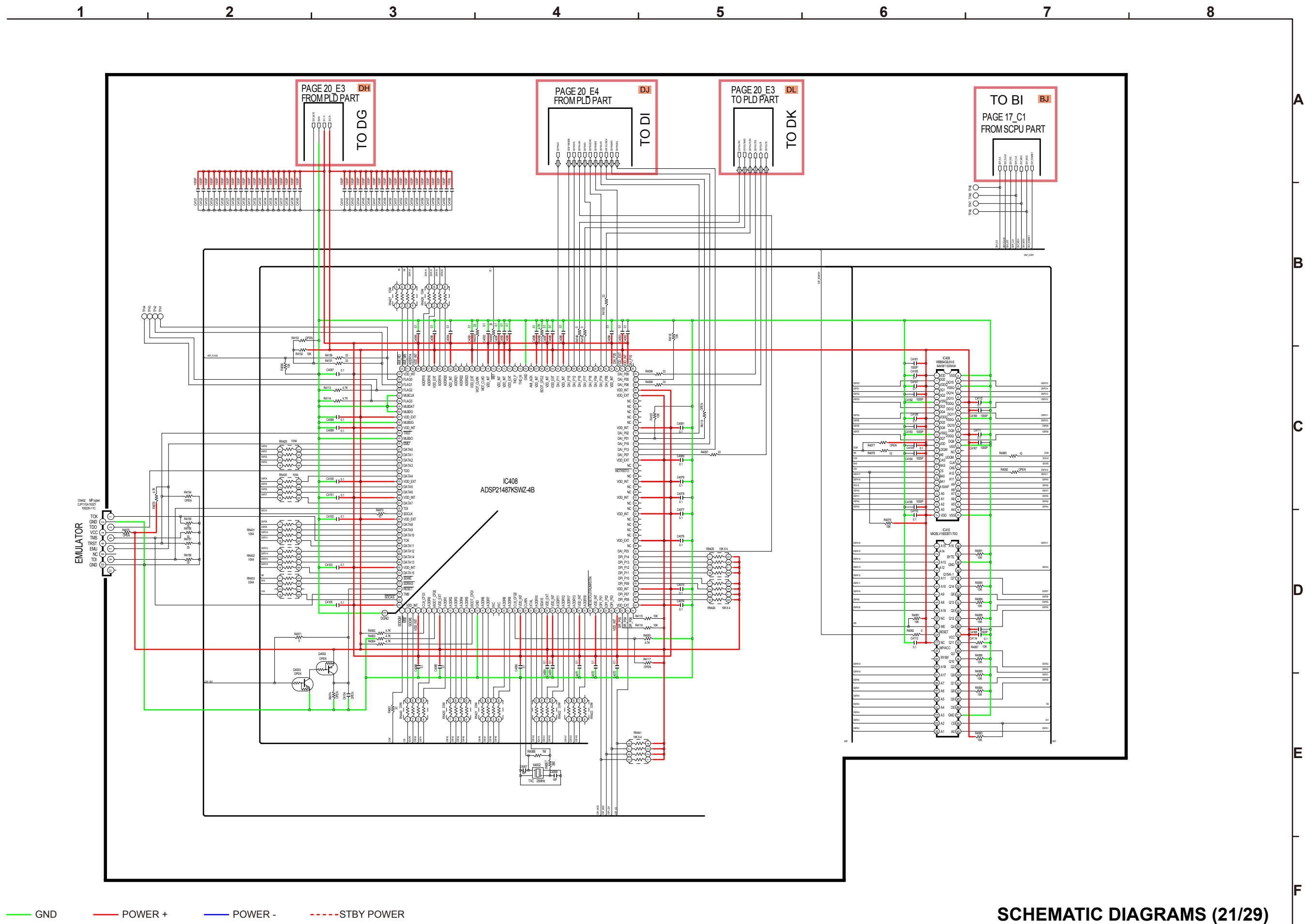




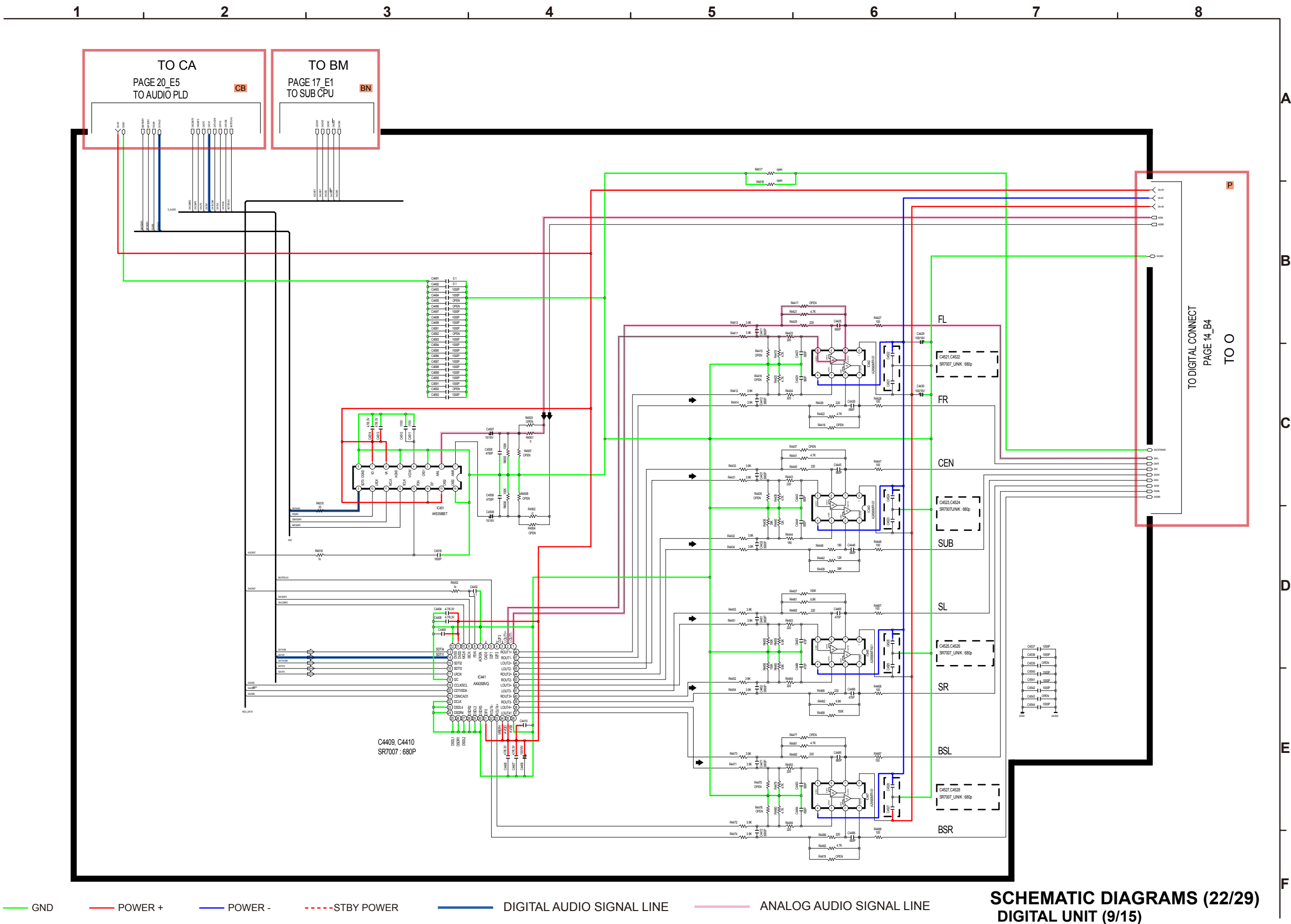


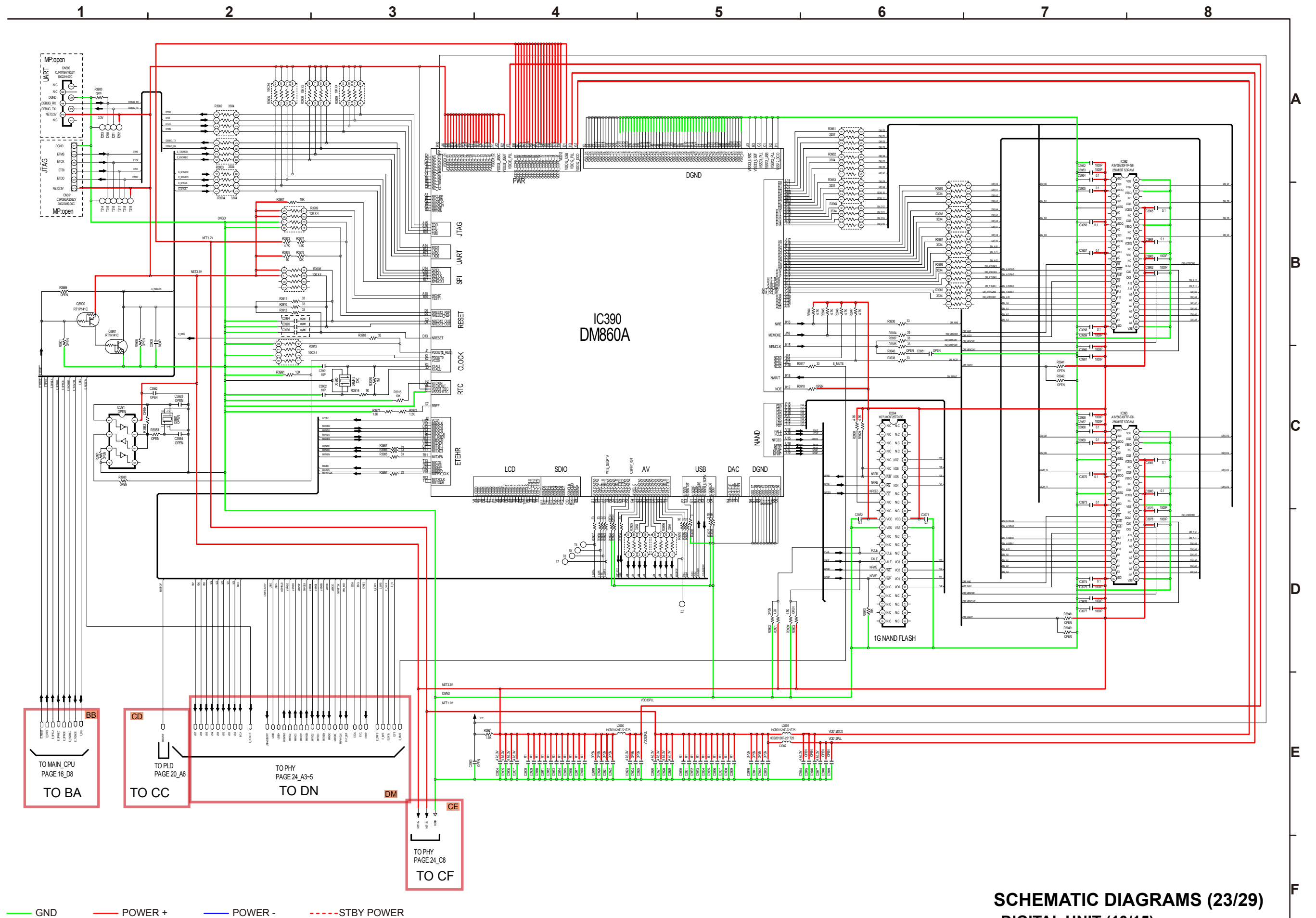
SCHEMATIC DIAGRAMS (19/29)
DIGITAL UNIT (6/15)



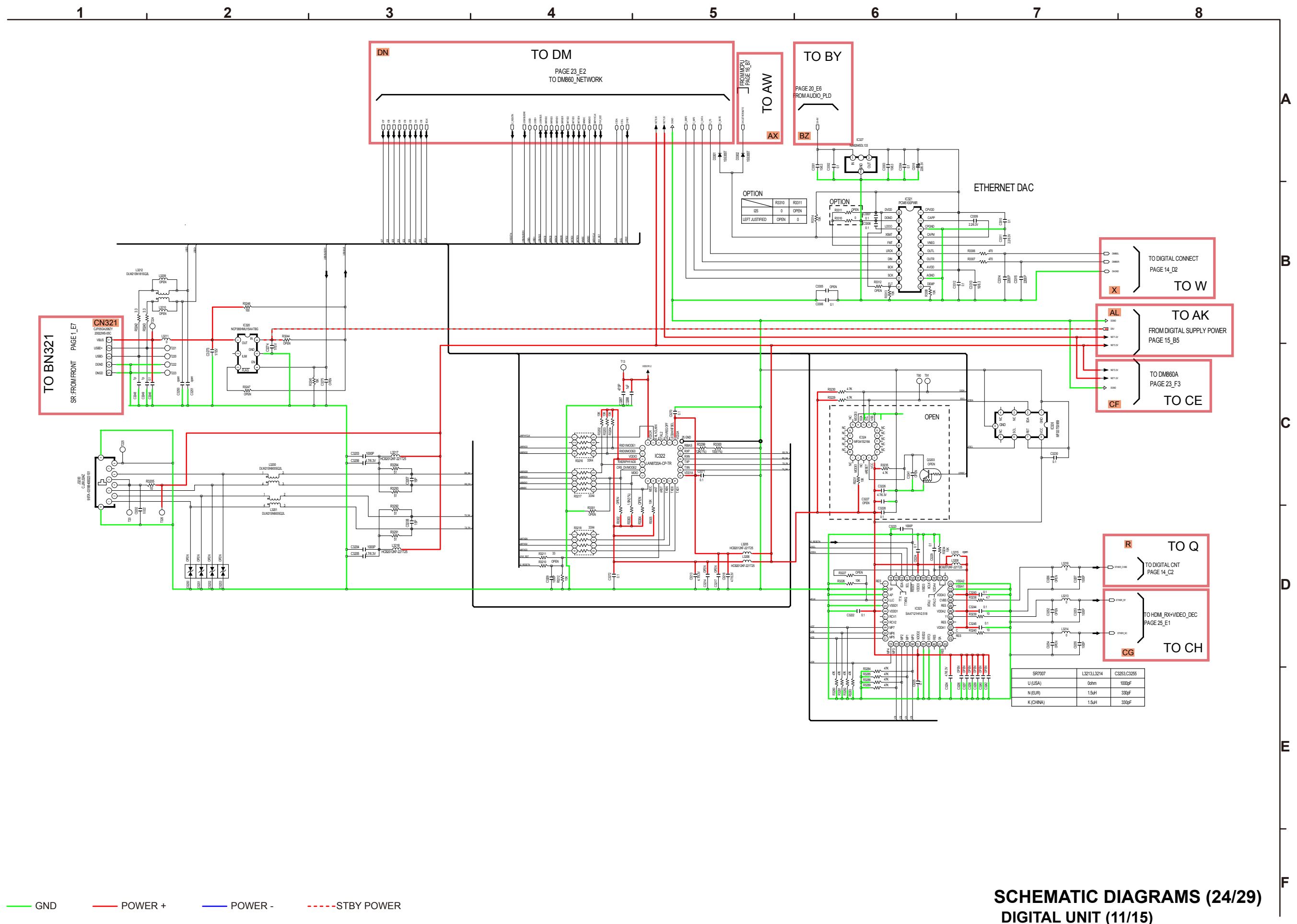


SCHEMATIC DIAGRAMS (21/29)
DIGITAL UNIT (8/15)

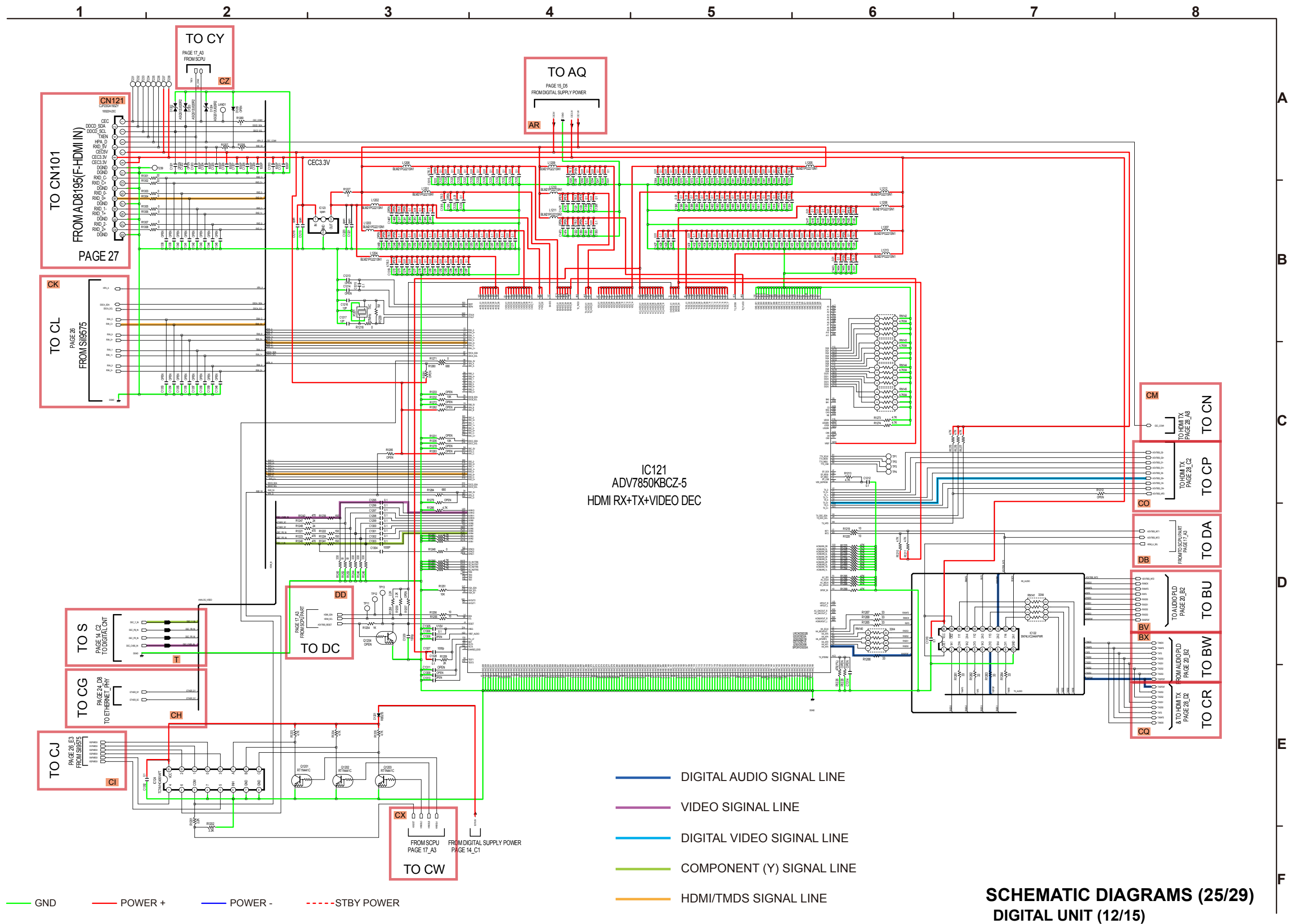




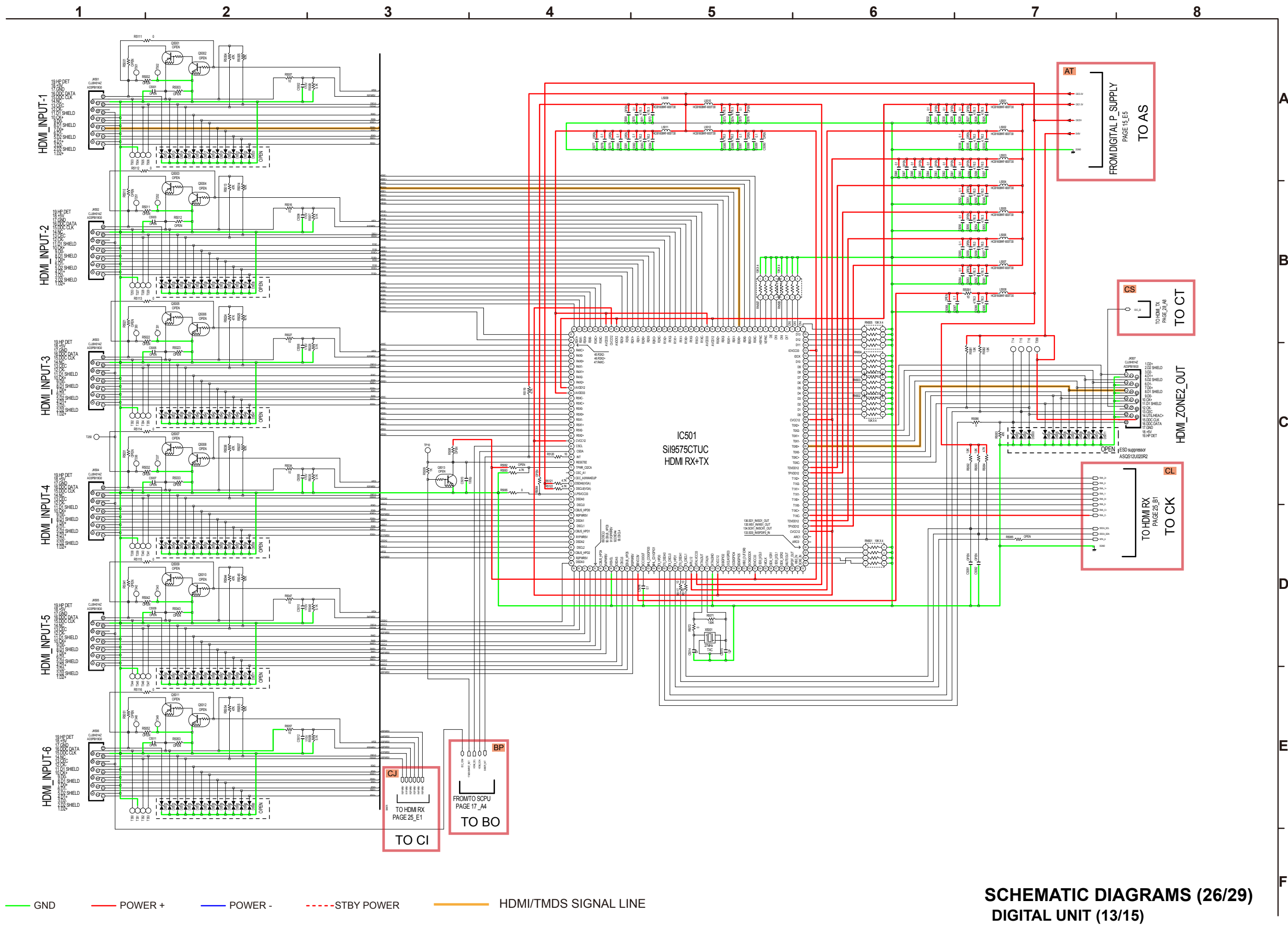
SCHEMATIC DIAGRAMS (23/29)
DIGITAL UNIT (10/15)



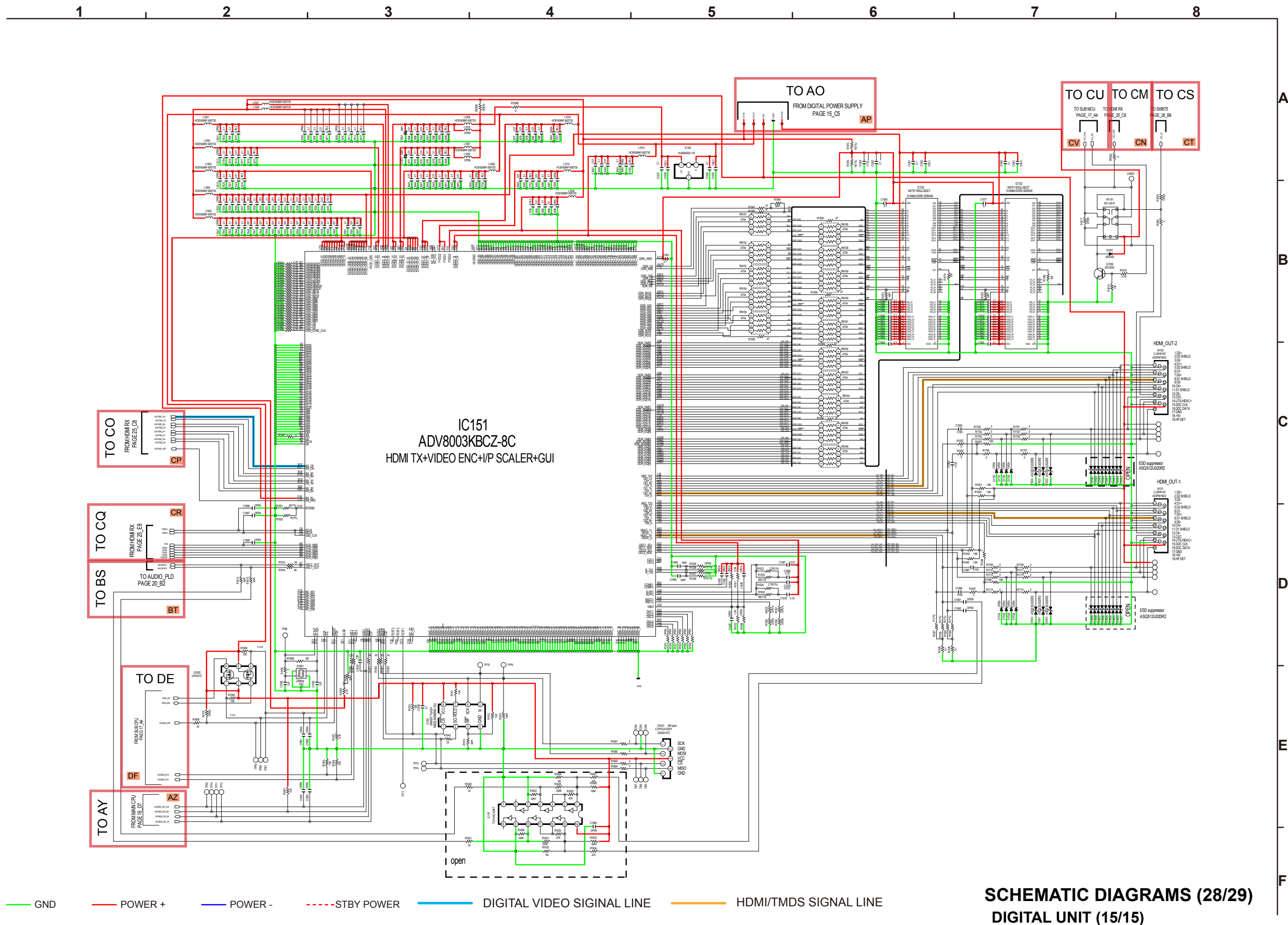
SCHEMATIC DIAGRAMS (24/29)
DIGITAL UNIT (11/15)



SCHEMATIC DIAGRAMS (25/29)
DIGITAL UNIT (12/15)

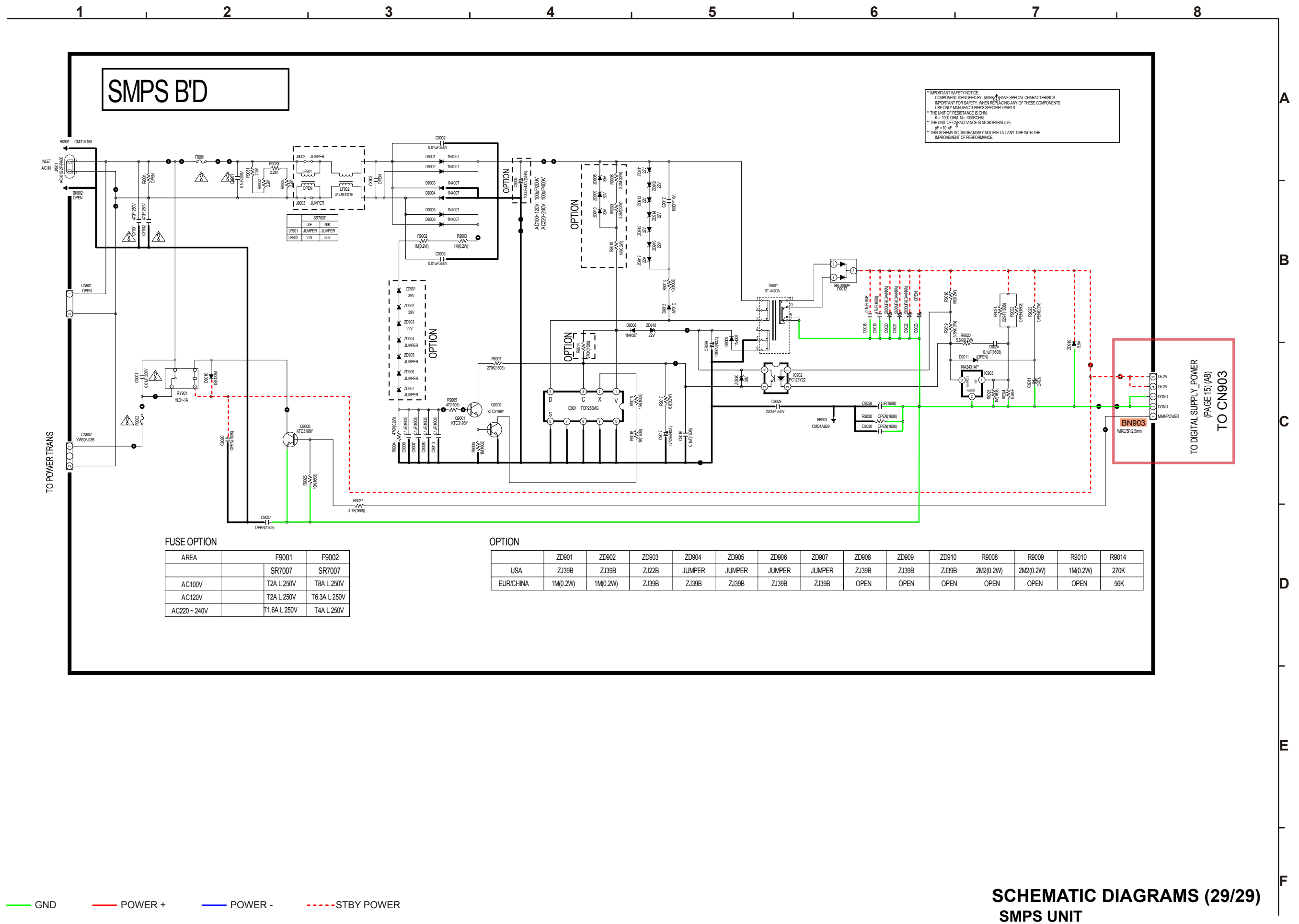


SCHEMATIC DIAGRAMS (26/29)
DIGITAL UNIT (13/15)

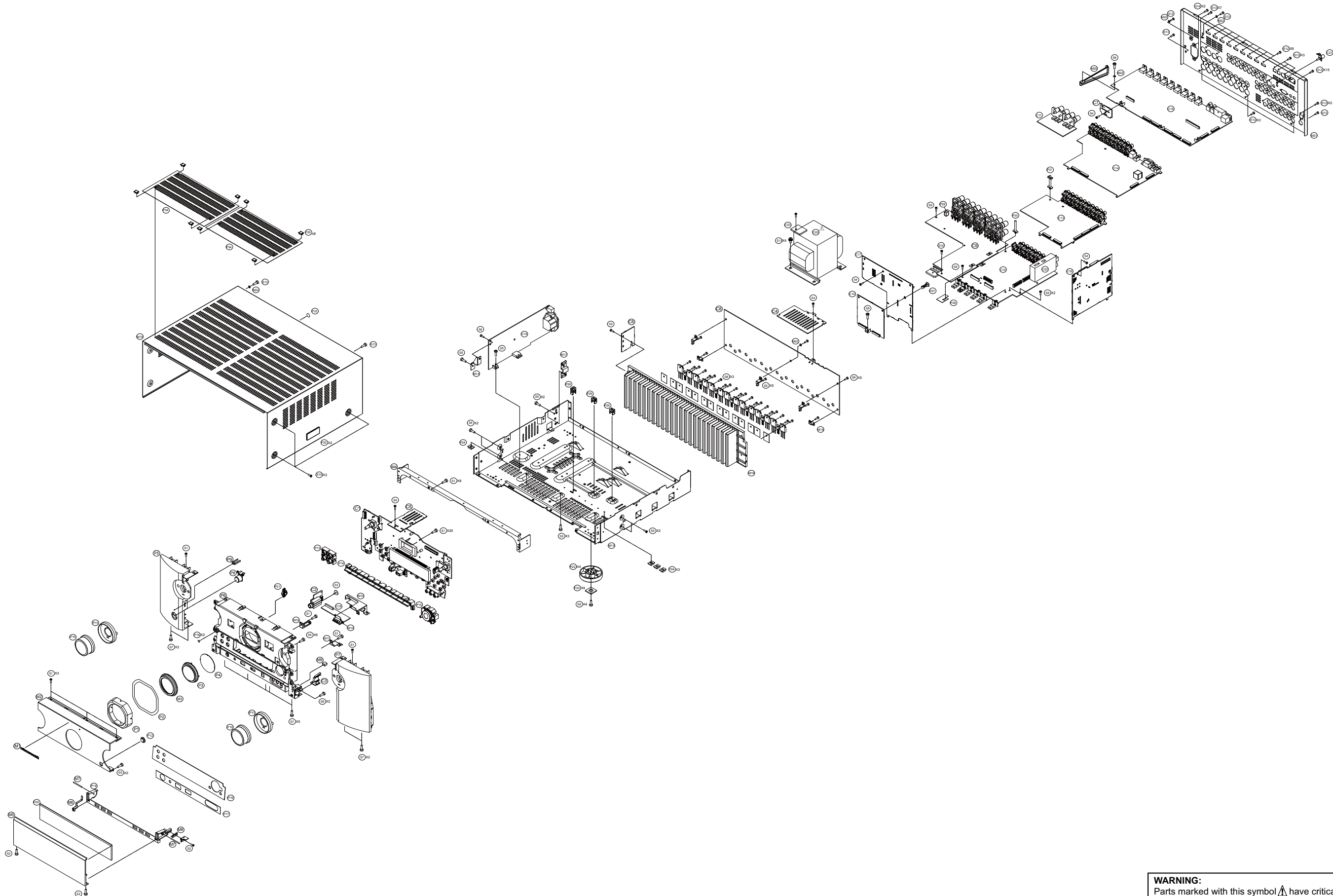


— GND
 — POWER +
 — POWER -
 --- STBY POWER
 — DIGITAL VIDEO SIGNAL LINE
 — HDMI/TMDS SIGNAL LINE

SCHEMATIC DIAGRAMS (28/29)
DIGITAL UNIT (15/15)



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.

*PCB ASS'Y indicated by "nsp" on this table cannot be supplied. When repairing the PCB 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.

U : North America model

N : Europe model

K : China model

B : Black model

SG : Silver gold model

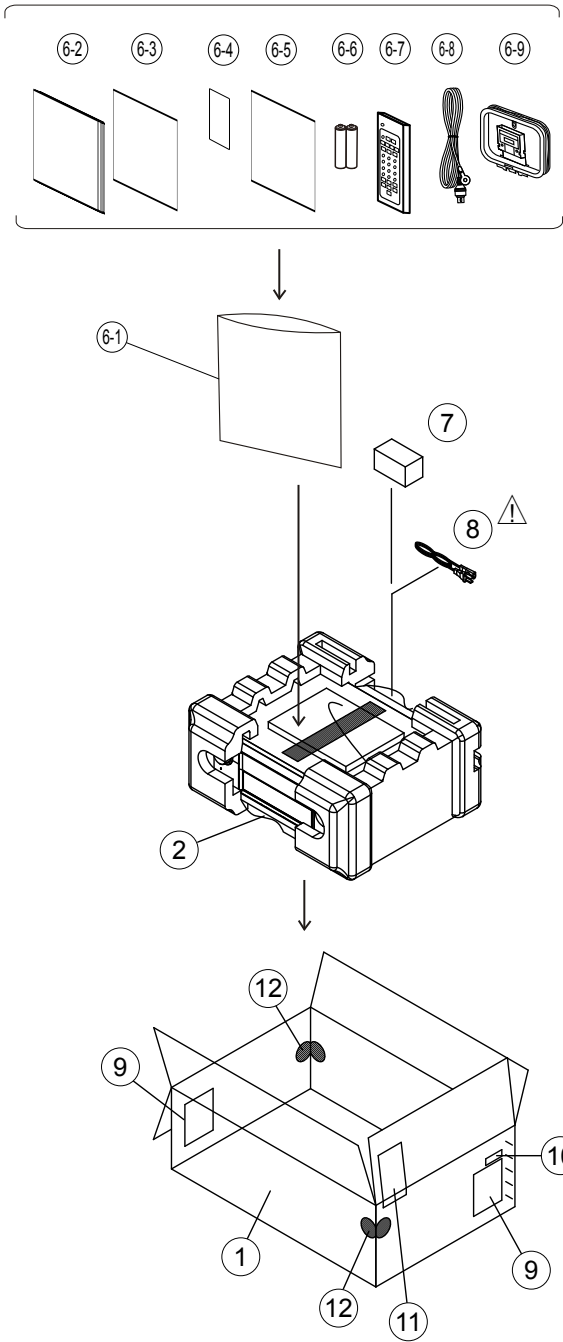
Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
1	nsp	FRONT PCB ASS'Y	U, N	COP12433F	1
1	nsp	FRONT PCB ASS'Y	K	COP12433H	1
C1	-	PCB FRONT		-	
C2	-	PCB HP		-	
C3	-	PCB DOOR DET		-	
C4	-	GUIDE_FRONT FFC		-	
C5	-	PCB FRONT HDMI FFC		-	
C6	-	PCB GUIDE L		-	
C7	-	PCB FRONT HDMI FFC		-	
8	nsp	AMP PCB ASS'Y	U, N	COP12385S	1
8	nsp	AMP PCB ASS'Y	K	COP12385T	1
C8	-	PCB AMP		-	
9	nsp	SPK PCB ASS'Y	U, N	COP12442F	1
9	nsp	SPK PCB ASS'Y	K	COP12442H	1
C9	-	PCB SPK		-	
C10	-	PCB FUSE		-	
C11	-	PCB F WIDE		-	
12	nsp	PREOUT PCB MANUAL ASS'Y	U	COP12443F	1
12	nsp	PREOUT PCB MANUAL ASS'Y	N	COP12443G	1
12	nsp	PREOUT PCB MANUAL ASS'Y	K	COP12443H	1
C12	-	PCB PREOUT		-	
13	nsp	INPUT PCB MANUAL ASS'Y	U	COP12438F	1
13	nsp	INPUT PCB MANUAL ASS'Y	N	COP12438G	1
13	nsp	INPUT PCB MANUAL ASS'Y	K	COP12438H	1
C13	-	PCB INPUT		-	
C23	-	PCB POSISTOR		-	
14	nsp	VIDEO PCB MANUAL ASS'Y	U, N	COP12439F	1
14	nsp	VIDEO PCB MANUAL ASS'Y	K	COP12439H	1
C14	-	PCB VIDEO		-	
C17	-	PCB FRONT CNT		-	
15	8U6391003100M	DIGITAL PCB MANUAL ASS'Y	U	COP12440F	1
15	8U6391003200M	DIGITAL PCB MANUAL ASS'Y	N	COP12440G	1
15	8U6391006200S	DIGITAL PCB MANUAL ASS'Y	K	COP12440H	1
C15	-	PCB HDMI		-	
16	nsp	CNT PCB MANUAL ASS'Y	U	COP12444F	1
16	nsp	CNT PCB MANUAL ASS'Y	N	COP12444G	1
16	nsp	CNT PCB MANUAL ASS'Y	K	COP12444H	1
C16	-	PCB SIDE CNT		-	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	18	nsp	SMPS PCB MANUAL ASS'Y	U	COP12391L	1	
	18	nsp	SMPS PCB MANUAL ASSY	N	COP12391G	1	
	18	nsp	SMPS PCB MANUAL ASS'Y	K	COP12391N	1	
	C18	-	PCB SMPS		-		
	19	nsp	FRONT HDMI PCB MANUAL ASS'Y	U, N	COP12445F	1	
	19	nsp	FRONT HDMI PCB MANUAL ASS'Y	K	COP12445H	1	
	C19	-	PCB FRONT HDMI		-		
⚠	C20	943101012430S	TRANS , POWER(EI96 X 75)	U	CLT5V060ZU	1	
⚠	C20	943101012440S	TRANS , POWER(EI96 X 75)	N	CLT5V060ZE	1	
⚠	C20	943101100200S	TRANS , POWER(EI96 X 75)	K	CLT5V060ZH	1	
	C21	nsp	TERMINAL , GROUND		CMA1A006	1	
	C22	18301001910AS	MODULE , HD RADIO	U	CNVKRM AVR2011	1	
	M1	421410006004M	BADGE , MARANTZ		CGB1A206		
	M2	943402102640M	PANEL , AL FRONT	U	CKM1A249ZC23	1	*
	M2	943402102650M	PANEL , AL FRONT	N1B,K	CKM1A249YC23	1	*
	M2	943402102660M	PANEL , AL FRONT	N1SG	CKM1A249XC62	1	*
	M3	943424100350M	RING	BK	CGK1A163C23	1	*
	M3	943424100360M	RING	SP	CGK1A163C62	1	*
	M4	nsp	BRACKET , BODY		CMD2A668	1	
	M5	415410001011M	DOOR , AL FRONT AV8003	BK	CKM2A195C23	1	
	M5	415410023134M	DOOR SG SR7005 A332	SP	CKM2A195C62	1	
	M6	nsp	PLATE , EARTH AV8003		CMC1A340	1	
	M7	00M10BW112010	BASE,SHAFT		CDF1A018	2	
	M8	00M10BW104010	BRACKET,BASE		CMD1A542	1	
	M9	00M10BW305010	MAGNET,BASE		CJC1A008	1	
	M10	nsp	EARTH , USB		CMC1A435	1	*
	M11	nsp	EARTH , AUX		CMC1A434	1	*
	M12	nsp	EARTH , FRONT		CMC1A437	1	*
	M13	nsp	EARTH , HDMI		CMC1A436	1	*
	M14	nsp	BRACKET , SMPS		CMD1A805	1	*
	M15	nsp	CHASSIS , BOTTOM		CUA1A338	1	
	M16	00M05CW257010	CABINET , TOP	BK	CKC1A170K117	1	
	M16	943403100670M	CABINET , TOP	SP	CKC1A170D11	1	*
	M17	nsp	BRACKET , SCREW COVER		CMD1A813	1	
	M18	nsp	HEATSINK		CMY2A376	1	
	M19	nsp	BRACKET , AMP PCB		CMD1A796	5	
	M20	nsp	PCB BRACKET(HDMI)		CMD1A791	1	
	M21	943406101150M	PANEL , REAR	U	CKF1A457Z	1	*
	M21	943406101160M	PANEL , REAR	N	CKF2A457Z	1	*
	M21	943406101170M	PANEL , REAR	K	CKF2A457Y	1	*
	M22	nsp	WASHER , GROUND		CNW1A035	5	
	P1	481510018107M	LENS RING SR7005 A332		CGL1A290	1	
	P2	nsp	SHEET , DIFFUSION		CGX1A455Z	1	
	P3	416510046009M	WINDOW CENTER SR7005 A332		CGU1A455	1	
	P4	416510047101M	WINDOW FILTER SR7005 A332		CGX1A449Y	1	
	P5	943402102670M	PANEL , SIDE L	BK	CGW1A453RNXB37	1	*
	P5	943402102680M	PANEL , SIDE L	SP	CGW1A453ROWD10	1	*

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	P6	443510045107M	FRONT INNER PANEL BL SR7005 A332	BK	CGW1A526B37	1	
	P6	443510045138M	FRONT INNER PANEL SG SR7005 A332	SP	CGW1A526RMD10	1	
	P7	943402102690M	PANEL , SIDE R	BK	CGW1A454RNB37	1	*
	P7	943402102700M	PANEL , SIDE R	SP	CGW1A454ROD10	1	*
	P8	411510015017M	TACT POWER KNOB	BK	CBT1A1072	1	
	P9	00M10BW355010	POWER INDICATOR		CGL1A231	1	
	P10	412410005014M	VOLUME KNOB ASS'Y	BK	CGK1A133YA	2	
	P11	424510002017M	ORNAMENT , VOLUME	BK	CGR1A449B37	2	
	P12	481510019100M	LENS IR BL SR7005 A332	BK	CGU1A460	1	
	P12	481510019131M	LENS IR SG SR7005 A332	SP	CGU1A460Y	1	
	P13	411510120001M	BUTTON 4KEY BL SR7005 A332	BK	CBT1A1170ZA	1	
	P13	411510120032M	BUTTON 4 KEY SG SR7005 A332	SP	CBT1A1170YA	1	
	P14	943411101960M	BUTTON , 11KEY	BK	CBT1A1169	1	*
	P14	943411101970M	BUTTON , 11KEY	SP	CBT1A1169RMD10	1	*
	P15	943411101980M	BUTTON , CURSOR	BK	CBT1A1171Z	1	*
	P15	943411101990M	BUTTON , CURSOR	SP	CBT1A1171RMYD10	1	*
	P16	943422100460M	WINDOW , VFD	BK	CGU1A466Z	1	*
	P16	943422100470M	WINDOW , VFD	SP	CGU1A466Y	1	*
	P17	943422100480M	SHEET , JACK	BK	CGX1A475Z	1	*
	P17	943422100490M	SHEET , JACK	SP	CGX1A475Y	1	*
	P18	454510002018M	HOLDER , DOOR AV8003	BK	CKG1A053B37	1	
	P18	417510015039M	HINGE DOOR SG SR7005 A332	SP	CKG1A053RMD10	1	
	P19	00M446T056010	CUSHION,DOOR		CHG1A296Y	2	
	P20	943415100370M	ORNAMENT , INNER DOOR	BK	CGR1A457Z	1	*
	P20	943415100380M	ORNAMENT , INNER DOOR	SP	CGR1A457RMYD10	1	*
	P21	943474001390S	GEAR , DEMPER AV8003		CDG1A027Z	1	
	P22	00M243W057210	FOOT		CKL2A042H46	4	
	P23	00M32CW107010	FOOT CUSHION		CHG1A360	4	
	P24	00D9430094700	RUBBER		CHG1A113	4	
	P25	nsp	SUPPORT , PCB		CMH1A328	2	
	P26	nsp	SUPPORT , PCB		CMH1A334	1	*
	P27	nsp	SPACER , PCB		CRE1A107	2	*
	P28	nsp	INSULATOR		CGX1A477	1	*
	P29	nsp	SUPPORT , EVA		CHG1A536	1	*
	P30	nsp	SUPPORT , PCB 31		CRE1A073	1	
	P31	nsp	SUPPORT, PCB		CRE1A102	1	
	P32	nsp	CUSHION , SUPPORT		CHG1A305	2	
	P33	nsp	SHEET , SCREW		CGX1A439	1	
	P34	943419100250D	SHEET , TOP	BK	CGX1A492Z	2	
	P34	943419100260D	SHEET , TOP	SP	CGX1A492Y	2	
	P35	45451000500AM	STOPPER , SHEET	BK	CMH1A306Z	8	
	P35	45451000501AM	STOPPER , SHEET	SP	CMH1A306Y	8	
	★ P36	nsp	CLAMPER		CHR301-V1		
	★ P37	nsp	LOCKER	N, K	CRE1A037		
	★ P38	nsp	TAPE , HEMELON		CHS1A032		
	★ P39	nsp	LABEL , POWER	K	CQB1A1006Y		
SCREWS							
	S1	nsp	SCREW		CTB3+10JR	35	
	S2	nsp	SCREW		CTB26+8JFZR	3	
	S3	nsp	SCREW		CTWS3+10GR	1	
	S4	nsp	SCREW		CTB3+6FR	5	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	S5	nsp	SCREW		CTB3+8JR	24	
	S6	nsp	SCREW		CTW3+8JR	16	
	S7	nsp	SCREW(CTB3+8JFZR)		CTB3+8JFZR	9	
	S8	nsp	SCREW , SPECIAL		CHD3A012R	21	
	S9	nsp	SCREW		CTW3+14JR	2	
	S10	nsp	SCREW		CTW3+16JR	1	
	S11	nsp	SCREW , TRANS		CHDR1A023R	4	
	S12	nsp	SCREW , DOT		CTBD3+6FFB	12	
	S13	nsp	SCREW , DOT		CTBD3+8JFB	38	
	S14	nsp	SCREW , DOT		CTBD4+8JFB	2	
	S15	nsp	SCREW	BK	CTW3+8JFZR	6	
	S15	nsp	SCREW	SP	CTW3+8JFC	6	
WIRES							
	★ P50	943606501260S	CARD CABLE(1.25mm/13P/80mm/B)	U	CWC4F2A13B080B10	1	
	★ P51	943606501650S	CARD CABLE , (23P, 350mm, 1mm PITCH, B-type)		CWC4F2A23A350B10	1	
	★ P52	943606501660S	CARD CABLE , (40P, 350mm, 1mm PITCH, B-type)		CWC4F2A40A350B08	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 packing 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.
U : North America model N : Europe model K : China model
B : Black model SG : Silver gold model

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
1	943531102630M	BOX , OUT CARTON	CPG1A965Z	1	*
2	nsp	BAG , POLY	CPP1A081X	1	
3	943533101230M	PAD , SNOW TOP	CPS1A918	1	*
4	943533101240M	PAD , SNOW BOTTOM	CPS1A919	1	*
6	-	INSTRUCTION MANUAL ASS'Y	-	1	

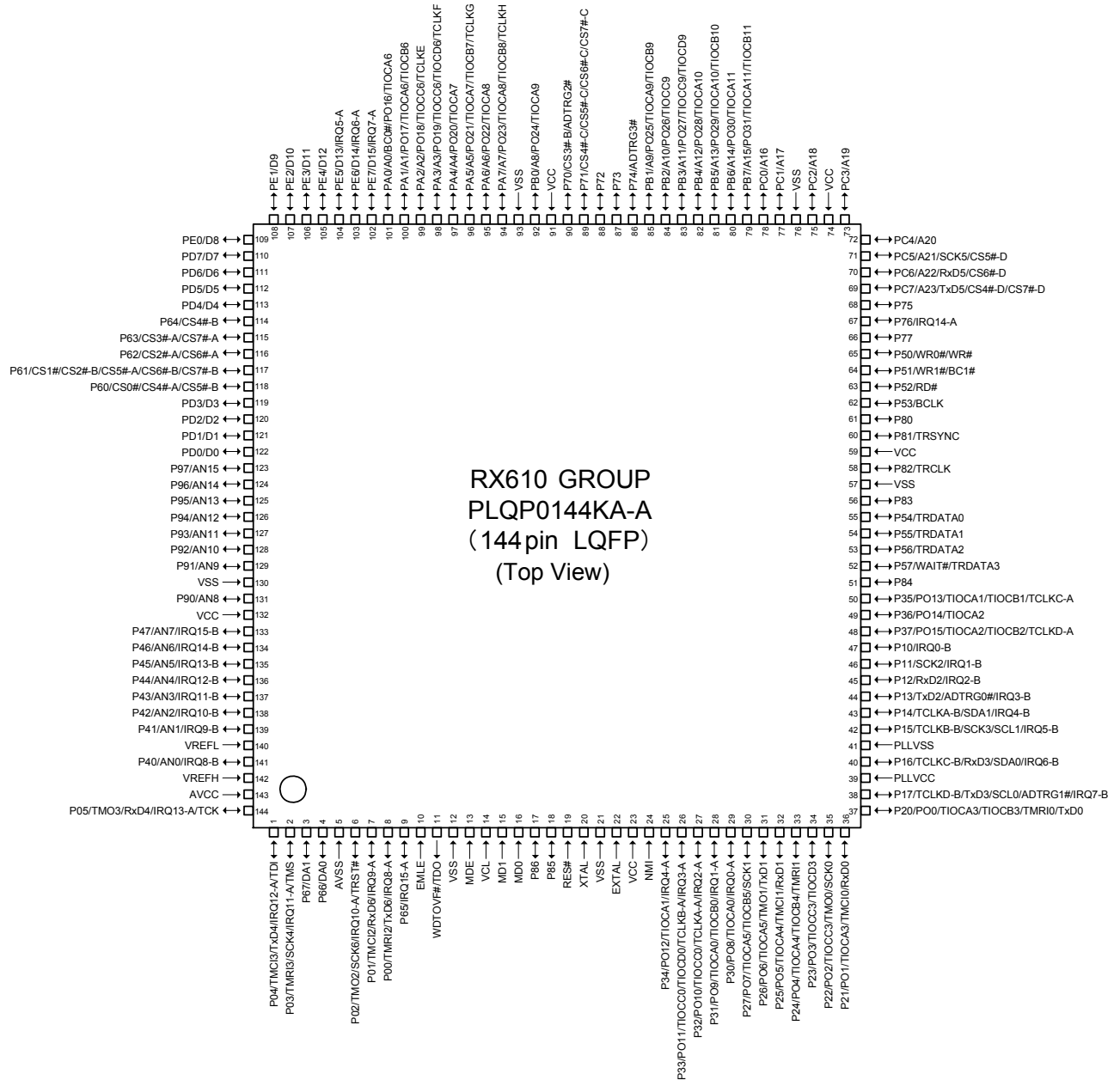
	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	6-1	nsp	BAG, POLY		CQB1A197Z	1	
	6-2	54111079800AM	GETTING STARTED	N	CQX1A1669Z	1	*
	6-2	54111079700AM	GETTING STARTED	U	CQX1A1668Z	1	*
	6-2	54111080000AM	GETTING STARTED	K	CQX1A1670Z	1	*
	6-3	nsp	CARD , WARRANTY	U	CQE1A131W	1	
	6-4	nsp	CARD FOR CHINA INDENTIFICATION	K	CQE1A450Z	1	
	6-5	35201010400AM	CD MANUAL ASS'Y	N	CFT1A063ZA	1	*
	6-5	35201010300AM	CD MANUAL ASS'Y	U	CFT1A062ZA	1	*
	6-5	35201010600AM	CD MANUAL ASS'Y	K	CFT1A064ZA	1	*
	6-6	nsp	BATTERY , AAA 2PCS IN PACK		CABR03PPB	2	
	6-7	30701010000AM	REMOCON ASS'Y(RC016SR)		CARTSR7007	1	*
	6-8	00D9430113403	FM 1 POLE ANT	N, K	CSA1A018Z	1	
	6-9	90M-ZA000230R	FM 1 POLE ANT(UL)	U	CSA1A019Z	1	
	6-10	943116100090S	ANT, AM LOOP(HD RADIO, 105uH/18T)	U	CSA1A040Z	1	
	7	32401000800AD	MIC , AUDYSSEY		CJXACM1HB	1	
⚠	8	943611500580S	CORD , POWER (PLUG+SOCKET) EUR	N	CJA2B120Z	1	*
⚠	8	943611500590S	CORD , POWER (PLUG+SOCKET) UL	U	CJA2A119Z	1	*
⚠	8	90M-ZC000650R	CORD , POWER	K	CJA2N075Z	1	
	9	nsp	LABEL , CONTROL		CQB2A993Z	1	
	10	nsp	LABEL , SERIAL NO		CQB1A995	3	
	11	nsp	WARRANTY CARD, CHINA	K	CQE1A449Y	1	
	12	nsp	LABEL, WHITE		CQB1A908Z	2	
	★ 13	nsp	LABEL , LICENSE	U	CQB1A1107Z	1	
	★ 13	nsp	LABEL , LICENSE	N, K	CQB1A1108Z	1	
	★ 14	nsp	LABEL , HOT		CQB1A906Z	1	
	★ 15	nsp	LABEL , POP	U, N	CQB1A1104Z	1	*
	★ 15	nsp	LABEL , POP	K	CQB1A1104Y	1	*
	★ 16	nsp	LABEL, SERIAL		CQB1A993Z-1	1	
	★ 17	nsp	LABEL , LAST FM	N	CQB1A1112Z	1	*
		nsp	WARRANTY CANADA	U	CQE1A132V	1	
		nsp	LABEL , HD RADIO	U	CQB1A1111Z	1	*

SEMICONDUCTORS

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

1. IC's

R5F56108VNFP (HDMI : IC201)



R5F56108VNFP Terminal Functions

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
1	P04/IRQ12-A/TMC13/ TxD4/TDI	TDI/TXD MITSUBISHI/ NC(NORMRAL)	I/O/I	M3VPu		-/-I	-/-I	I	E20 Emulator control signal/Mitsubishi Programer/Nomal:Input
2	P03/IRQ11-A/TMR13/ SCK4/TMS	TMS/ NC(NORMRAL)	I/I	M3VPu		-/I	-/I	I	E20 Emulator control signal/ Nomal:Input
3	P67/DA1	NC	O			L	L	L	NC
4	P66/DA0	NC	O			L	L	L	NC
5	AVSS	AVSS	-			-	-	-	GND
6	P02/IRQ10-A/TMO2/ SCK6/TRST#	TRST#/ NC(NORMRAL)	I/I	Pd		I/I	I/I	I	E20 Emulator control signal/ Nomal:Input

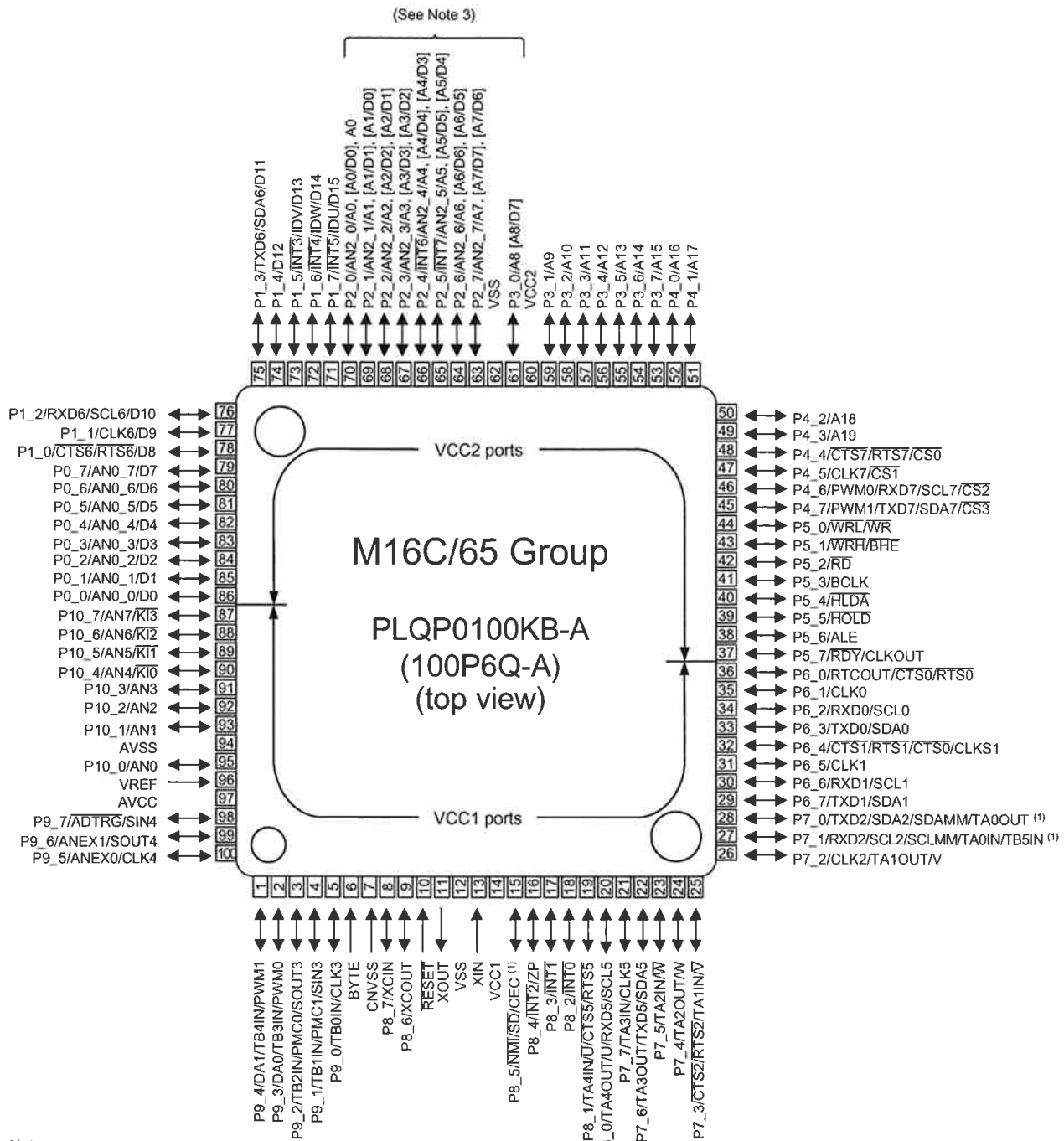
Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
7	P01/IRQ9-A/TMC12/ RxD6	RXD MI232O	I	M3VPu		I	I	I	Data received from the external pin(AMX)/Use for firmware upgrading by DFW.:FFC Connect
8	P00/IRQ8-A/TMR12/ TxD6	TXD MO232I	O			L	L	L	Data transfer to external pin(AMX)/Use for firmware upgrading by DFW.:FFC Connect
9	P65/IRQ15-A	POWER KEY	I	M3VPu		I	I	I	POWER KEY (Waiting Mode cancel, interrupt port)
10	EMLE	EMLE	I	Pd		-	-	-	E20Emulator control signal"H":No OP,"L"OP(When CPU-One chip OP., Need to pull down)
11	WDTOVF#/TDO	TDO/WDTOVF#	O/O			-	-	-	E20Emulator control signal
12	VSS	VSS	I			-	-	-	GND
13	MDE	MDE	I	Pd		-	-	-	Endian select(L:LittleEndian)
14	VCL	VCL	I			-	-	-	VSS need to 0.1μF
15	MD1	MD1	I	M3VPu		-	-	-	Select BootMode,UserBootMode(SingleChipMode:SingleChipMode:MD0=1, MD1=1)/ E20Emulator control signal
16	MD0	MD0	I	M3VPu		-	-	-	
17	P86	CEC POWER2	O			L	L	L	Reserve (CEC POWER2 control)
18	P85	REMOTE POWER(232C)	O			L	L	L	232C POWER SUPPLY (REMOTE 3.3V) control pin.(ON: H)
19	RES#	RESET	I			-	-	-	Reset input (reset: L)
20	XTAL	XTAL	I			-	-	-	Clock input(12MHz(Tentative))
21	VSS	VSS	-			-	-	-	GND
22	EXTAL	EXTAL	-			-	-	-	Clock output(12MHz(Tentative))
23	VCC	VCC	-			-	-	-	+3.3V
24	NMI	NMI	I	M3VPu		-	-	-	NC (PullUp)
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/I			L/I	L/I	L/I	NC
28	P31/IRQ1-A/PO9/ TIOCA0/TIOCB0	ADV8003 INT1	O			L	L	L	HDMI transmitter / OSD (ADV8003) INT1 output pin
29	P30/IRQ0-A/PO8/ TIOCA0	RC IN	I			I	I	I	Remote control signal input pin
30	P27/PO7/TIOCA5/ TIOCB5/SCK1	HDMI A SEL	O			L	L	L	Remote control signal input pin
31	P26/PO6/TIOCA5/ TMO1/TxD1	NC	O			L/H	L/L	L/H	Unused
32	P25/PO5/TIOCA4/ TMC1/RxD1	NC	O			L	L	L	Unused
33	P24/PO4/TIOCA4/ TIOCB4/TMRI1	TU RST/HDRADIO RESET	O	SW3VPu		L	L	L	TUNER RESET pin (E3 model)
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/ TMC10/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/I_O			L	L	L	TUNER control pin
39	PLLVC	PLLVC	-			-	-	-	PLL Power
40	P16/IRQ6-B/ TCLKC-B/RxD3/ SDA0	TU SDIO	I/I_O			L	L	L	TUNER control pin
41	PLLVS	PLLVS	-			-	-	-	GND
42	P15/IRQ5-B/ TCLKB-B/SCK3/ SCL1	NC	O			L	L	L	NC
43	P14/IRQ4-B/ TCLKA-B/SDA1	NC	O			L	L	L	NC
44	P13/IRQ3-B/TxD2/ ADTRG0#	ADV8003 SPI MO	O			L	L	L	OSD control pin (ADV8003)
45	P12/IRQ2-B/RxD2	ADV8003 SPI MI	I			L	L	L	OSD control pin (ADV8003)

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
46	P11/IRQ1-B/SCK2	ADV8003 SPI CLK	O			L	L	L	OSD control pin (ADV8003)
47	P10/IRQ0-B	ADV8003 SPI CS	O			L	L	L	OSD control pin (ADV8003)
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	NC	O			L	L	-	NC
52	P57/WAIT#/ TRDATA3	NC	O			L	L	L	NC
53	P56/TRDATA2	E SPI MOEI	O	N3VPu		L	L	L	ETHERNET communication control pin (DM860)
54	P55/TRDATA1	NC	O			L	L	L	NC
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	VFD control pin
59	VCC	VCC	-			-	-	-	+3.3V
60	P81/TRSYNC	FL RST	O			L	L	L	VFD control pin
61	P80	ZVOL DATA	O			L	L	L	ZONE VOL(NJW1194) Control
62	BCLK/P53 (Input only)	NC	I/I			I/I	I/I	I/I	NC
63	P52/RD#	ZVOL CLK	O			L	L	L	ZONE VOL(NJW1194) Control
64	P51/WR1#/BC1#	ZVOLSTB	O			L	L	L	ZONE VOL(NJW1194) Control
65	P50/WR0#/WR#	NC	O			L	L	L	NC
66	P77	NC	O			L	L	L	NC
67	P76/IRQ14-A	TU GPO2_INT	I			L	L	L	TUNER GPIO2 input pin
68	P75	SUB UPDATE	O			L	L	L	SUB UPDATEmode control(DPMS/ DENON WRITTER)."L". SUB Program mode "H",then SUB RST.
69	PC7/A23/CS4#-D/ CS7#-D/TxD5	MOSI	O			L	L	L	MAIN-SUB CPU Communication control output
70	PC6/A22/CS6#-D/ RxD5	SOMI	I			I	L	I	MAIN-SUB CPU Communication control output
71	PC5/A21/CS5#-D/ SCK5	CLK MO	O			L	L	L	MAIN-SUB CPU Communication control output
72	PC4/A20	RST SUB	O			L	L	L	MAIN-SUB CPU Communication control output
73	PC3/A19	ACK SIMO	O			L	L	L	MAIN-SUB CPU Communication control output
74	VCC	VCC	-			-	-	-	+3.3V
75	PC2/A18	SUB CPU POWER	O			L	L	L	SUB CPU POWER (H:ON)
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 RLY control pin
80	PB6/A14/PO30/ TIOCA11	FRONT RL	O			L	L	L	FRONT Ch RELAY control pin
81	PB5/A13/PO29/ TIOCA10/TIOCB10	NC	O			L	L	L	NC
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	CENTER/SURROUND Ch RELAY control pin
84	PB2/A10/PO26/ TIOCC9	SB RL	O			L	L	L	SURROUND-BACK Ch RELAY control pin
85	PB1/A9/PO25/ TIOCA9/TIOCB9	D5V POWER	O			L	L	H	DIGITAL POWER SUPPLY (D3.3V) control pin (ON:H)
86	P74/ADTRG3#	FH RL	O			L	L	L	RELAY control
87	P73	FW RL	O			L	L	L	RELAY control
88	P72	NC	O			L	L	L	NC
89	P71/CS4#-C/ CS5#-C/CS6#-C/ CS7#-C	NC	O			L	L	L	NC

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
90	P70/CS3#-B/ ADTRG2#	NC	O			L	L	L	NC
91	VCC	VCC	-			-	-	-	+3.3V
92	PB0/A8/PO24/ TIOCA9	NC	O/I			L	L	L	NC
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	E POWER 2 (Reserve)	O			L	L	L	Unused
98	PA3/A3/PO19/ TIOCC6/TIOCD6/ TCLKF	DAC(ETHER) MUTE	O			L	L	L	DAC (ETHER) MUTE control pin (PCM5100 for DM860)
99	PA2/A2/PO18/ TIOCC6/TCLKE	PRE Z2 MUTE	O			L	L	L	Z2 PRE OUT MUTE control pin
100	PA1/A1/PO17/ TIOCA6/TIOCB6	SB MUTE	O			L	L	L	SB PRE OUT MUTE Control
101	PA0/A0/BC0#/PO16/ TIOCA6	PRE MUTE	O			L	L	L	Sub Woofer PRE OUT MUTE control pin
102	PE7/IRQ7-A/D15	PRE Z3 MUTE	O			L	L	L	PRE OUT MUTE Control
103	PE6/IRQ6-A/D14	NC	O			L	L	L	NC
104	PE5/IRQ5-A/D13	REQ SOMI	I			I	L	I	MAIN-SUB CPU Communication control output
105	PE4/D12	ISEL A	I			I	I	I	Input Selector rotation detection pin(Rotary encoder)
106	PE3/D11	ISEL B	I			I	I	I	Input Selector rotation detection pin(Rotary encoder)
107	PE2/D10	VOL CLK	O			L	L	L	FUNCTION / VOLUME control pin (R2A15218)
108	PE1/D9	VOL DATA	O			L	L	L	FUNCTION / VOLUME control pin (R2A15218)
109	PE0/D8	NC	O			L	L	L	NC
110	PD7/D7	NC	O			L	L	L	NC
111	PD6/D6	NC	O			L	L	L	NC
112	PD5/D5	ASO DET	I			I	I	I	PROTECTION (ASO)
113	PD4/D4	DC DET	I			I	I	I	PROTECTION (DC DET)
114	P64/CS4#-B	TRIGGER OUT 2	O			L	L	L	TRIGGER OUT Control
115	P63/CS3#-A/CS7#-A	TRIGGER OUT 1	O			L	L	L	TRIGGER OUT Control
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	Reserved(Hi-B RL)	O			L	L	L	Reserved(HIGH B RELAY Control)
118	P60/CS0#/CS4#-A/ CS5#-B	NC	O			L	L	L	NC
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	VFD control pin
122	PD0/D0	FL DATA	O			L	L	L	VFD control pin
123	P97/AN15	THERMAL C	I			I	L	I	PROTECTION Detect(Heat Sink)
124	P96/AN14	THERMAL D	I			I	L	I	PROTECTION Detect(Heat Sink)
125	P95/AN13	THERMAL A	I			I	L	I	PROTECTION Detect(P.TR)
126	P94/AN12	THERMAL B	I			I	L	I	PROTECTION Detect(P.TR)
127	P93/AN11	MAIN POWER	O			L	L	L	MAIN POWER control pin
128	P92/AN10	CPU POWER	O			L	L	L	CPU INTERFACE POWER SUPPLY (SWM3.3V & SWM5V) control pin (POWER ON:H,CEC ON STANDBY:H)
129	P91/AN9	NC	O			L	L	L	NC
130	VSS	VSS	-			-	-	-	GND
131	P90/AN8	MODE	I			I	I	I	Destination detection pin
132	VCC	VCC	-			-	-	-	+3.3V
133	P47/IRQ15-B/AN7	MIC DET	I			I	I	I	MIC Detec(Active:H)
134	P46/IRQ14-B/AN6	H/P DET	I			I	I	I	Headphone Detect(Active:H)

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
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	NC	O			L	L	L	NC
140	AVSS	AVSS	-			-	-	-	GND
141	P40/IRQ8-B/AN0	NC	O			L	L	L	NC
142	VREF	VREF	-			-	-	-	Reference voltage (+3.3V) input pin for A/D port
143	AVCC	AVCC	-			-	-	-	+3.3V
144	P05/IRQ13-A/TMO3/ Rx/D4/TCK	TCK/RXD MITSUBISHI/ NC(NORMRAL)	I/I/I	M3VPu		-/-/I	-/-/I	I	E20 Emulator control signal/ Mitsubishi Programmer/Nomal OP.:Input

R5F3650KNFB (HDMI : IC231)

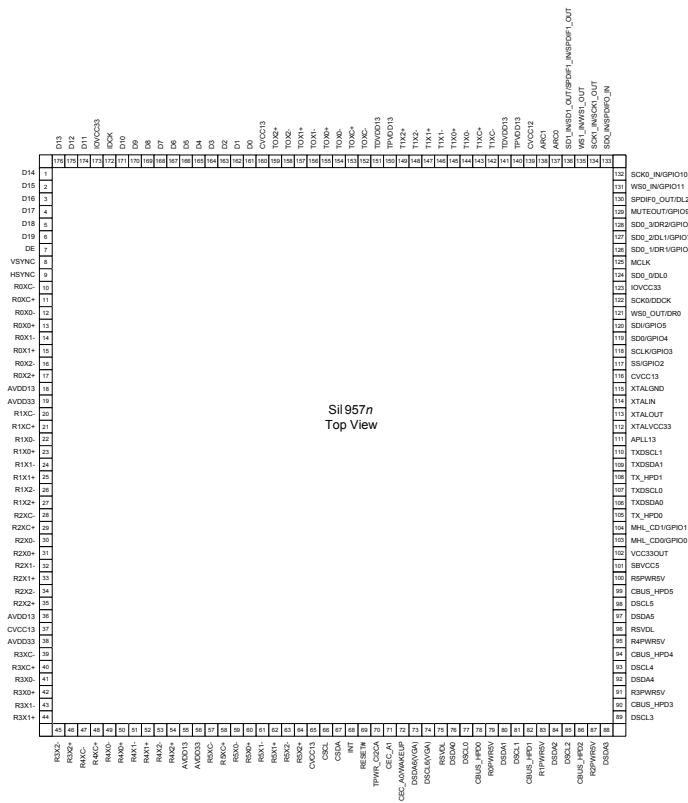


R5F3650KNFB Terminal Functions

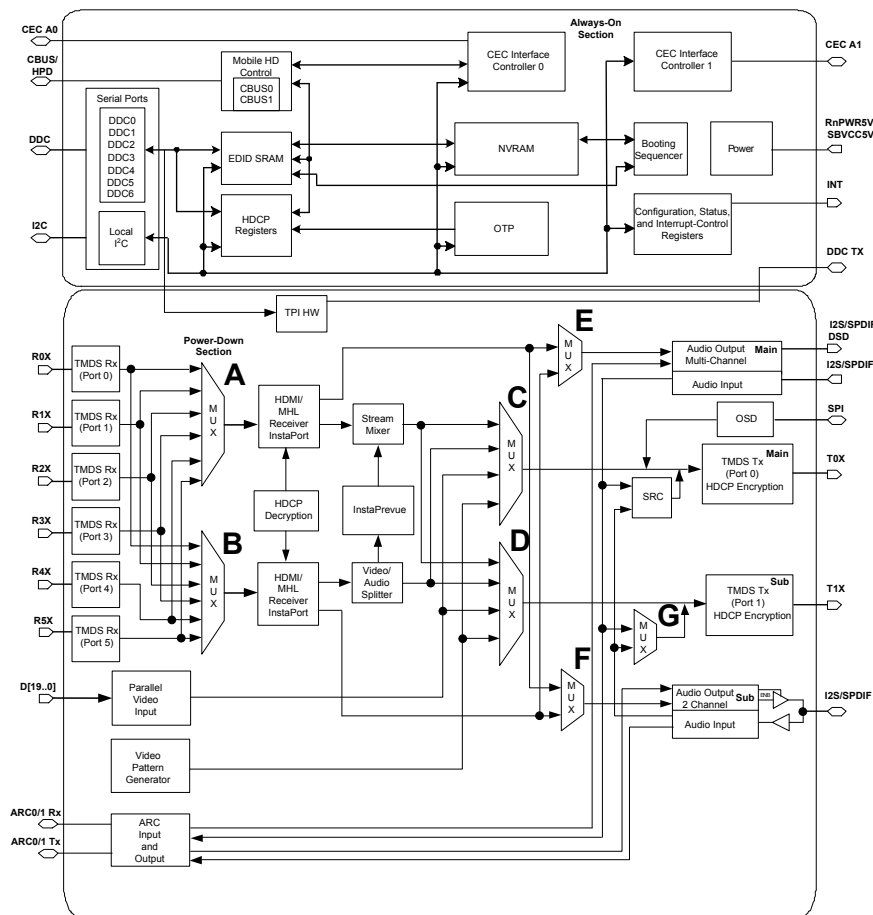
Pin	Pin Name	Symbol	I/O	Type	Pu/Pd (Ext.)	CEC STBY	P.OFF	Function
1	P94	NC	I	-	Pd	-	Z	NC
2	P93	DIR CE	O	C	-	O/L	Z	DIR control pin
3	P92/SOUT3	DIR DIN	O	C	-	O/L	Z	DIR control pin
4	P91/SIN3	DIR DOUT	I	-	DA3.3Pu	-	Z	DIR control pin
5	P90/CLK3	DIR CLK	O	C	-	O/L	Z	DIR control pin
6	BYTE	BYTE	-	-	-	-	-	GND(Ext. data bus bit width switching, 16bit : L)
7	CNVCS	CNVSS	-	-	Pd	-	-	Single-chip/Micro-processor mode switching (Normal single-chip : L, Rewrite boot program start : H input set)
8	P87	ADC RST	O	C	-	O/L	Z	AD control pin
9	P86	NC	O	C	-	O/L	Z	NC
10	RESET	SUBRESET	I	-	SCPU3VPu	-	Z	Reset input
11	XOUT	X1	O	-	-	-	-	Oscillator connection
12	VSS	VSS	-	-	-	-	-	GND
13	XIN	X2	I	-	-	-	-	Oscillator connection
14	VCC	VCC	-	-	-	-	-	+3.3V
15	P85(N)/(NMI)/(CEC)	NC	I	-	Pd	-	-	NC
16	P84/INT2	CEC_IN	I	-	SCPU3VPu	-	Z	CEC-D signal input pin
17	P83/INT1	ACK SIMO	I	-	-	-	Z	MAIN-SUB ucom communication control input pin MAIN ucom Hack from the main "L" Return)
18	P82/INT0	SUB BDOWN	I	-	-	-	Z	Power failure detect(Power failure:L)
19	P81	NC	O	C	-	-	Z	NC
20	P80/(RXD5)	NC	O	C	-	-	Z	NC
21	P77/(CLK5)	SUB TDO	I	-	-	O/L	Z	PLD rewriting control (JTAG)
22	P76/(TXD5)	A PLD CS "/D/M"	O	C	-	-	O/L	A PLD control pin/ DENON WRITTER/ MITSUBISHI rewritten for determining (DW :L)
23	P75	A PLD DATA	O	C	-	O/L	Z	A PLD control pin
24	P74	A PLD CLK	O	C	-	O/L	Z	A PLD control pin
25	P73/CTS2	NC	I	-	Pd	-	Z	NC
26	P72/CLK2	DA POWER	O	C	-	-	Z	DIGITAL power (DA3.3V,DA1.1V) ON/OFF control (H: ON)
27	P71(N)/RXD2/SCLMM	HSCL(400k)	I/O	N	CEC3VPu	O/L	O/L	VIDEO I2C- ADV8003/ADV7850/Sii9575
28	P70(N)/TXD2/SDAMM	HSDA(400k)	I/O	N	CEC3VPu	O/L	O/L	VIDEO I2C- ADV8003/ADV7850/Sii9575
29	P67/TXD1	TXD	O	C	SCPU3VPu	-	Z	Data transmission output to external
30	P66/RXD1	RXD	I	-	SCPU3VPu	-	Z	Data reception input from the external
31	P65/CLK1/SCLK	SCLK	I	-	Pd	-	Z	Emulator communication pin
32	P64/CTS1	HIN SELA	O	C	-	O/L	Z	For HDMI +5V selection(TC4051)
33	P63/TXD0	SOMI	O	C	-	-	Z	MAIN-SUB ucom communication control pin
34	P62/RXD0	SIMO	I	-	-	-	Z	MAIN-SUB ucom communication control pin
35	P61/CLK0	CLK SIMO	I	-	-	-	Z	MAIN-SUB ucom communication control pin
36	P60/CTS0	REQ SOMI	O	C	-	-	Z	MAIN-SUB ucom communication control pin
37	P57	TMDS SW RST RST	O	C	SCPU3VPu	-	Z	HDMI SWITCHER TMDS SW RST RST Reset pin
38	P56	DV POWER2	O	C	-	-	Z	DIGITAL VIDEO power control pin (DV1.8V)
39	P55/EPM	EPM	I	-	Pd	-	Z	Rewrite boot program start:L input set
40	P54	CEC_OUT	O	C	-	-	Z	CEC-D signal output pin
41	P53	NC	I	-	Pd	I	Z	NC
42	P52	HIN SELC	I	-	SCPU3VPu	I	Z	For HDMI +5V selection(TC4051)
43	P51	HIN SELB	O	C	-	O/L	Z	For HDMI +5V selection(TC4051)
44	P50/CE	CE	O/I	C	SCPU3VPu	-	Z	Rewrite boot program start:H input set
45	P47/(TXD7)/SDA7	VSDA	I/O	C	DV3VPu	-	O/L	VIDEO SELECT IC(ADVM2000)
46	P46/(RXD7)/SCL7	VSCL	I/O	C	DV3VPu	-	O/L	VIDEO SELECT IC(ADVM2000)
47	P45/(CLK7)	ADV8003 INT1	I	-	-	-	Z	HDMI ADV8003 INT output
48	P44	ADV8003 INT2	I	-	-	-	Z	HDMI ADV8003 INT output
49	P43	HDMI A.SEL	O	C	-	O/L	Z	HDMI AUDIO switch (H : DSP course, L : HDMI Rx→Tx through) (TC74VHC244)
50	P42	NC	I	-	Pd	I	Z	NC
51	P41	CEC POWER	O	C	-	O/H	Z	Power ON (CEC5V,CEC3.3V,CEC1.8V) for CEC STANDBY
52	P40	CEC SEL(33)	I	-	Pd	-	Z	CEC output LINE switching
53	P37	ADV7850 RST	O	C	SCPU3VPu	-	Z	Reset for HDMI(ADV7850)
54	P36	ADV8003 RST	O	C	SCPU3VPu	-	Z	Reset for HDMI(ADV8003)
55	P35	NC	O	C	-	-	Z	NC
56	P34	NC	O	C	-	-	Z	S signal presence detection input (Connected: H)
57	P33	NC	O	C	-	-	Z	NC
58	P32	DAC MDI	O	C	-	O/L	Z	DAC control pin(ASK4358)
59	P31	DAC MC	O	C	-	O/L	Z	DAC control pin(ASK4358)

Pin	Pin Name	Symbol	I/O	Type	Pu/Pd (Ext.)	CEC STBY	P.OFF	Function
60	VCC	VCC	-	-	-	-	-	+3.3V
61	P30	DAC MS	O	C	-	O/L	Z	DAC control pin(ASK4358)
62	VSS	VSS	-	-	-	-	-	GND
63	P27	DAC RST	O	C	-	O/L	Z	DAC control pin(ASK4358)
64	P26	DV POWER	O	C	-	MODE1=O/H MODE2=O/L	Z	DIGITAL VIDEO power control pin (DV5V,DV3.3V)
65	P25/INT7	ADV7850 INT1	I	-	-	-	Z	HDMI RECEIVER(ADV7850)INT output
66	P24/INT6	ADV7850 INT2	I	-	-	-	Z	HDMI RECEIVER(ADV7850)INT output
67	P23	SUB TMS	O	C	DA3.3Pu	-	Z	PLD rewriting control (JTAG)
68	P22	NC	I	-	Pd	-	Z	NC
69	P21	NC	O	C	-	-	Z	NC
70	P20	NC	O	C	-	-	Z	NC
71	P17/INT5	SII INT	I	-	-	-	Z	HDMI Sii9575 INT output
72	P16/INT4	NC	O	-	-	-	Z	NC
73	P15/INT3	H5V DET	I	-	-	-	Z	HDMI IN 5V DET
74	P14	NC	I	-	Pd	-	Z	NC
75	P13/TXD6	DSP MOSI	O	C	DA3VPu	O/L	Z	DSP control pin
76	P12/RXD6	DSP MISO	I	-	DA3VPu	-	Z	DSP control pin
77	P11/CLK6	DSPICLK	O	C	DA3VPu	O/L	Z	DSP control pin
78	P10	NC	O	C	-	-	Z	VIDEO IN signal presence detection input(Signal input:H)
79	P07	SUB TDI	O	C	DA3.3Pu	O/L	Z	PLD rewriting control (JTAG)
80	P06	NC	O	C	-	-	Z	NC
81	P05	NC	O	C	-	O/L	Z	ZONE2 image input switch (INPUT select)
82	P04	NC	O	C	-	O/L	Z	ZONE2 image input switch (INPUT select)
83	P03	SUB TCK	O	C	Pd	-	Z	PLD rewriting control (JTAG)
84	P02	NC	O	C	-	O/L	O/L	NC
85	P01	NC	O	C	-	O/L	O/L	NC
86	P00	DIR RST1	O	C	-	O/L	O/L	DIR control pin (LC89058W-VF4A)
87	P107/(AN7)	DSP RST	O	C	-	O/L	Z	DSP reset output pin (Reset:L)
88	P106/(AN6)	NC	I	-	Pd	-	Z	NC
89	P105/(AN5)	DSP ROMRST	O	C	-	O/L	Z	Memory reset for DSP(Reset:L)
90	P104/(AN4)	NC	O	-	-	-	Z	NC
91	P103/(AN3)	DSP FLAG0	I	-	Pd	-	Z	DSP control pin
92	P102/(AN2)	DSPICS	O	C	DA3VPu	O/L	Z	DSP control pin
93	P101/(AN1)	NC	I	-	Pd	-	Z	NC
94	AVSS	AVSS	-	-	-	-	-	AD GND
95	P100/(AN0)	NC	I	-	Pd	-	Z	NC
96	VREF	VREF	-	-	-	-	-	AD standard +3.3V
97	AVCC	AVCC	-	-	-	-	-	AD +3.3V
98	P97/(SIN4)	Tx EN	O	C	-	-	Z	AD8195 ENABLE pin for Front HDMI control
99	P96/(SOUT4)	NC	I	-	Pd	-	Z	NC
100	P95/(CLK4)	NC	I	-	Pd	-	Z	NC

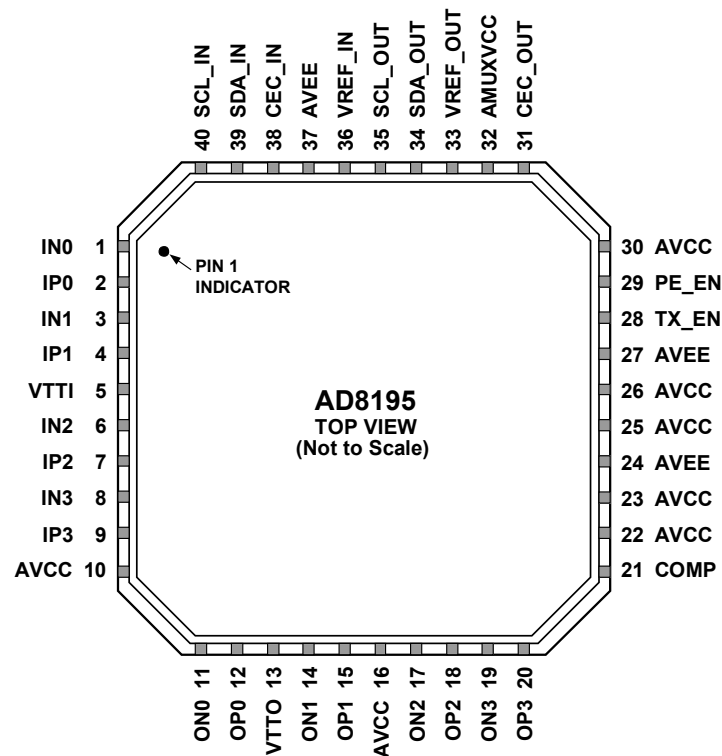
Sil9575 (HDMI : IC501)



Sil9575 Block diagram



AD8195ACPZ (HDMI : IC101)



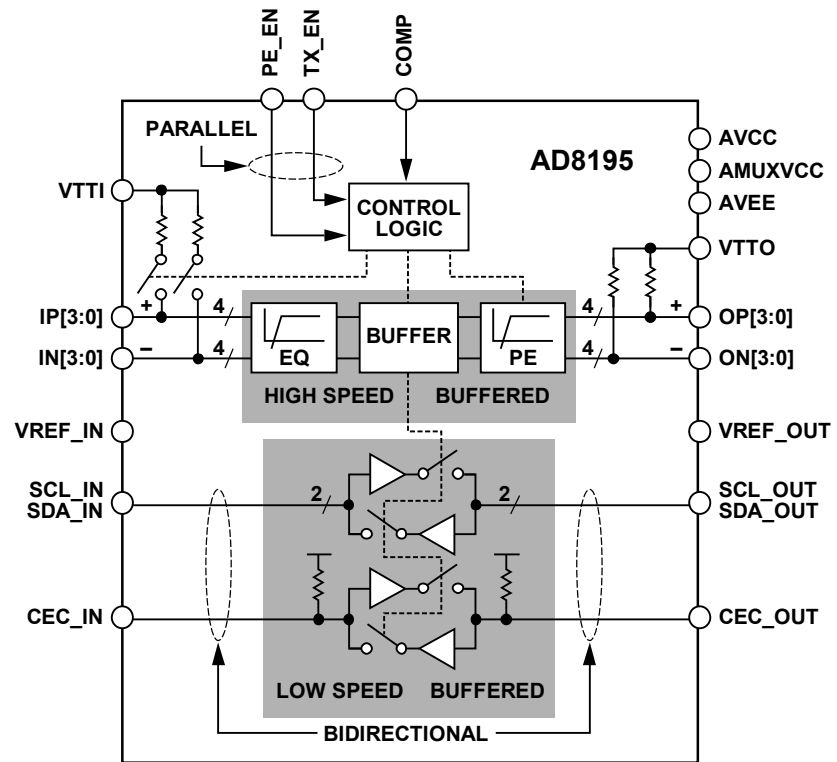
NOTES
1. THE AD8195 LFCSP HAS AN EXPOSED PAD ON THE UNDERSIDE OF THE PACKAGE THAT AIDS IN HEAT DISSIPATION. THE PAD MUST BE ELECTRICALLY CONNECTED TO THE AVEE SUPPLY PLANE IN ORDER TO MEET THERMAL SPECIFICATIONS.

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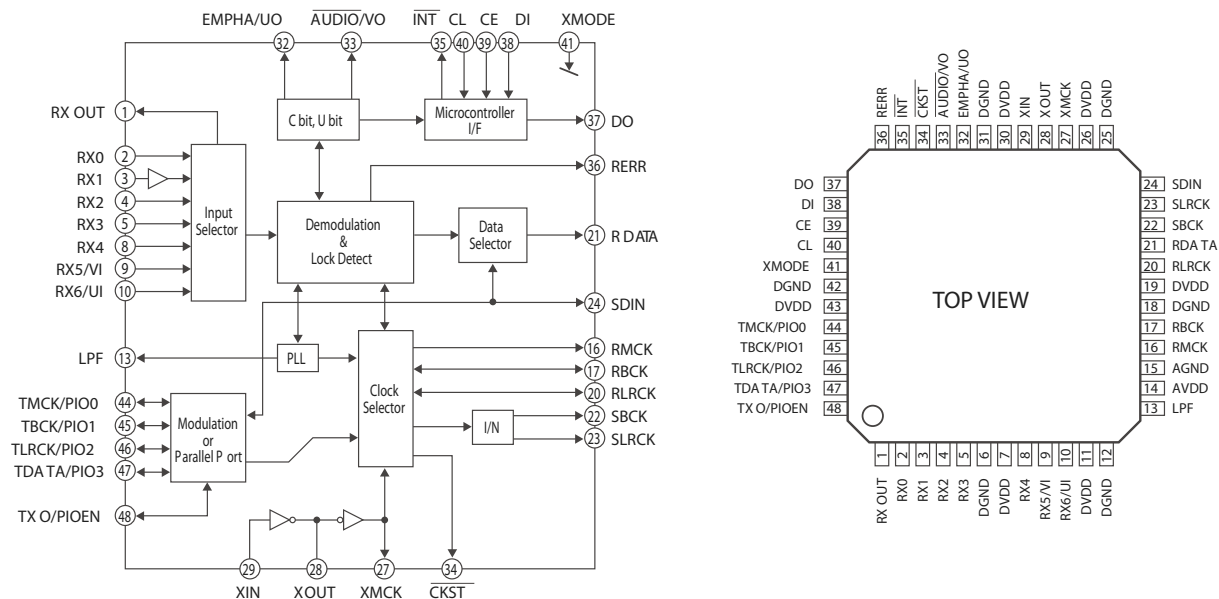
AD8195ACPZ Termini Function

Pin No.	Mnemonic	Type ¹	Description
1	IN0	HS I	High Speed Input Complement.
2	IP0	HS I	High Speed Input.
3	IN1	HS I	High Speed Input Complement.
4	IP1	HS I	High Speed Input.
5	VTTI	Power	Input Termination Supply. Nominally connected to AVCC.
6	IN2	HS I	High Speed Input Complement.
7	IP2	HS I	High Speed Input.
8	IN3	HS I	High Speed Input Complement.
9	IP3	HS I	High Speed Input.
10, 16, 22, 23, 25, 26, 30	AVCC	Power	Positive Analog Supply. 3.3 V nominal.
11	ON0	HS O	High Speed Output Complement.
12	OP0	HS O	High Speed Output.
13	VTT0	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 μ F capacitor.
24, 27, 37, Exposed Pad	AVEE	Power	Negative Analog Supply. 0 V nominal.
28	TX_EN	Control	High Speed Output Enable Parallel Interface.
29	PE_EN	Control	High Speed Preemphasis Enable Parallel Interface.
31	CEC_OUT	LS I/O	CEC Output Side.
32	AMUXVCC	Power	Positive Auxiliary Buffer Supply. 5 V nominal.

AD8195ACPZ Block diagram



LC89057W-VF4A (HDMI : IC403)



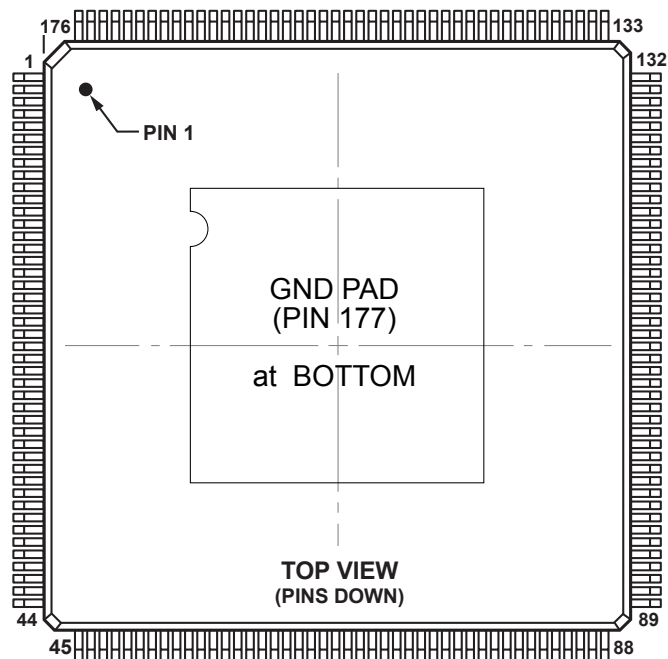
LC89057W-VF4A Termini Function

Pin No.	Pin Name	I/O	Function
1	RXOUT	O	Input bi-phase select data output terminal
2	RX0	I	TTL compatible digital data input terminal
3	RX1	I	Coaxial compatible amplitude built-in digital data input terminal
4	RX2	I	TTL compatible digital data input terminal
5	RX3	I	TTL compatible digital data input terminal
6	DGND	-	Digital GND
7	DVDD	-	Digital power
8	RX4	I	TTL compatible digital data input terminal
9	RX5/VI	I	TTL compatible digital data/Validity flag input terminal for modulation
10	RX6/UI	I	TTL compatible digital data/User data input terminal for modulation
11	DVDD	-	Digital power for PLL
12	DGND	-	Digital GND for PLL
13	LPF	O	PLL loop filter connecting terminal
14	AVDD	-	Analog power for PLL
15	AGND	-	Analog GND for PLL
16	RMCK	O	RMCK clock output terminal (256fs, 512fs, XIN, VCO)
17	RBCK	O/I	RBCK clock in/output terminal (64fs)
18	DGND	-	Digital GND
19	DVDD	-	Digital power
20	RLRCK	O/I	RLRCK clock in/output terminal (fs)
21	RD ATA	O	Serial audio data output terminal
22	SBCK	O	SBCK clock output terminal (32fs, 64fs, 128fs)
23	SLRCK	O	SLRCK clock output terminal (fs/2, fs, 2fs)
24	SDIN	I	Serial audio data input terminal
25	DGND	-	Digital GND
26	DVDD	-	Digital power
27	XMCK	O	Oscillator output terminal

Pin No.	Pin Name	I/O	Function
28	XOUT	O	X tal osc. connecting output terminal
29	XIN	I	X tal osc. connection, external clock input terminal (24.576MHz or 12.288MHz)
30	DVDD	-	Digital power
31	DGND	-	Digital GND
32	EMPHA/UO	I/O	Emphasis information/U-data output/Chip address setting terminal
33	AUDIO/V O	I/O	Non-PCM detect/V -flag output/ Chip address setting terminal
34	CKST	I/O	Clock switch transition period output/Demodulation master or slave function switching terminal
35	INT	I/O	Interrupt output for ∞ com (Interrupt factor selectable)/Modulation or general I/O switching terminal
36	RERR	O	PLL lock error, data error flag output
37	DO	O	∞ com I/F, read out data output terminal (3-state)
38	DI	I	∞ com I/F, write data input terminal
39	CE	I	∞ com I/F, chip enable input terminal
40	CL	I	∞ com I/F, clock input terminal
41	XMODE	I	System reset input terminal
42	DGND	-	Digital GND
43	DVDD	-	Digital power
44	TMCK/PIO0	I/O	256fs system clock input for modulation/General I/O in/output terminal
45	TBCK/PIO1	I/O	64fs bit clock input for modulation/General I/O in/output terminal
46	TLRCK/PIO2	I/O	fs clock input for modulation/General I/O in/output terminal
47	TDATA/PIO3	I/O	Serial audio data input for modulation/General I/O in/output terminal
48	TXO/PIOEN	O/I	Modulation data output/ General I/O enable input terminal

* For latch-up countermeasure, perform each power supply ON/OFF in the same timing.

ADSP21487KSWZ-4B (HDMI : IC408)



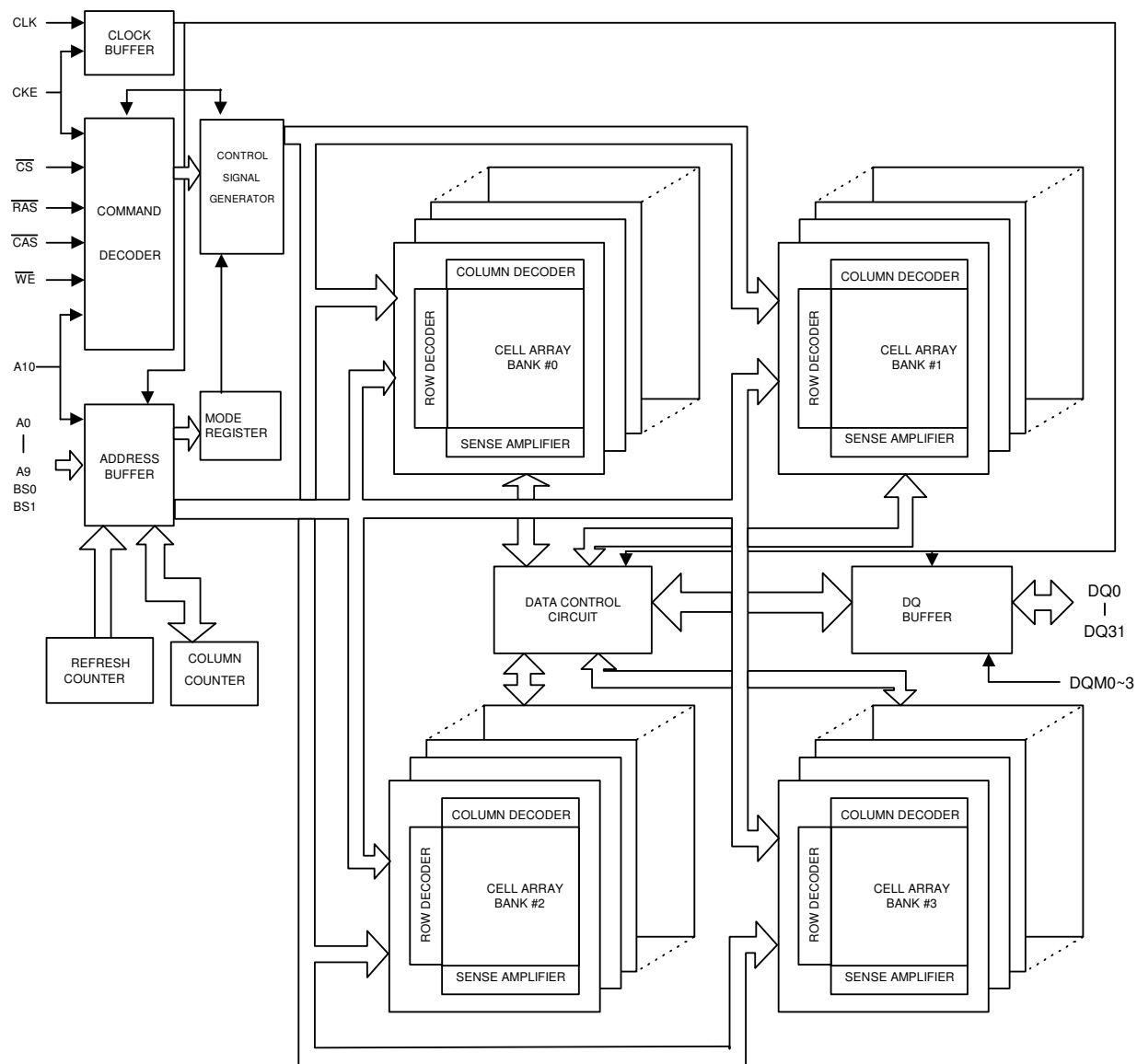
ADSP21487KSWZ Terminal Function

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
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	TRST	144
ADDR5	13	V _{DD_EXT}	57	DAI_P15	101	NC	145
BOOT_CFG1	14	NC	58	V _{DD_INT}	102	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	WDTRSTO	70	V _{DD_INT}	114	TDI	158
SDA10	27	NC	71	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
RESETOUT/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	SDWE	171
DPI_P03	40	V _{DD_EXT}	84	ADDR15	128	SDRAS	172
V _{DD_INT}	41	V _{DD_INT}	85	V _{DD_INT}	129	RESET	173
DPI_P05	42	DAI_P06	86	ADDR14	130	TMS	174
DPI_P04	43	DAI_P05	87	AMI_WR	131	SDCAS	175
DPI_P06	44	DAI_P09	88	AMI_RD	132	V _{DD_INT}	176
						GND	177*

W9864G6JH-6 (HDMI : IC409)

VDD		1		86		VSS
DQ0		2		85		DQ15
VDDQ		3		84		VSSQ
DQ1		4		83		DQ14
DQ2		5		82		DQ13
VSSQ		6		81		VDDQ
DQ3		7		80		DQ12
DQ4		8		79		DQ11
VDDQ		9		78		VSSQ
DQ5		10		77		DQ10
DQ6		11		76		DQ9
VSSQ		12		75		VDDQ
DQ7		13		74		DQ8
NC		14		73		NC
VDD		15		72		VSS
DQM0		16		71		DQM1
$\overline{\text{WE}}$		17		70		NC
$\overline{\text{CAS}}$		18		69		NC
$\overline{\text{RAS}}$		19		68		CLK
$\overline{\text{CS}}$		20		67		CKE
NC		21		66		A9
BS0		22		65		A8
BS1		23		64		A7
A10/AP		24		63		A6
A0		25		62		A5
A1		26		61		A4
A2		27		60		A3
DQM2		28		59		DQM3
VDD		29		58		VSS
NC		30		57		NC
DQ16		31		56		DQ31
VSSQ		32		55		VDDQ
DQ17		33		54		DQ30
DQ18		34		53		DQ29
VDDQ		35		52		VSSQ
DQ19		36		51		DQ28
DQ20		37		50		DQ27
VSSQ		38		49		VDDQ
DQ21		39		48		DQ26
DQ22		40		47		DQ25
VDDQ		41		46		VSSQ
DQ23		42		45		DQ24
VDD		43		44		VSS

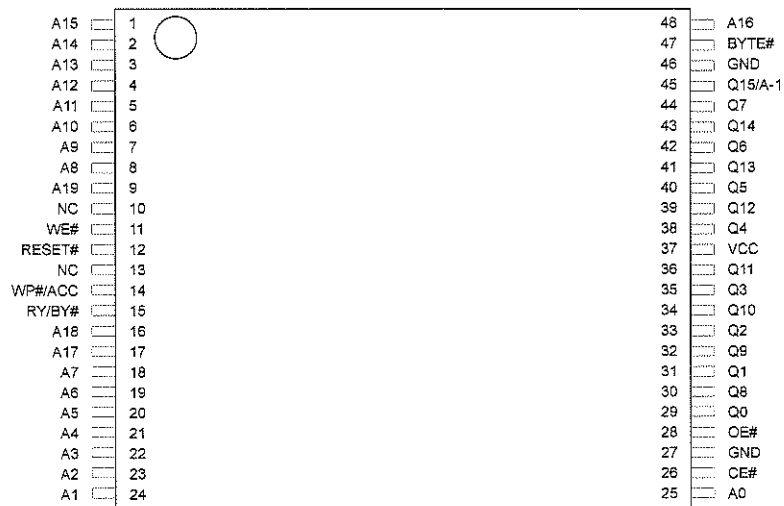
W9864G6JH-6 Block diagram



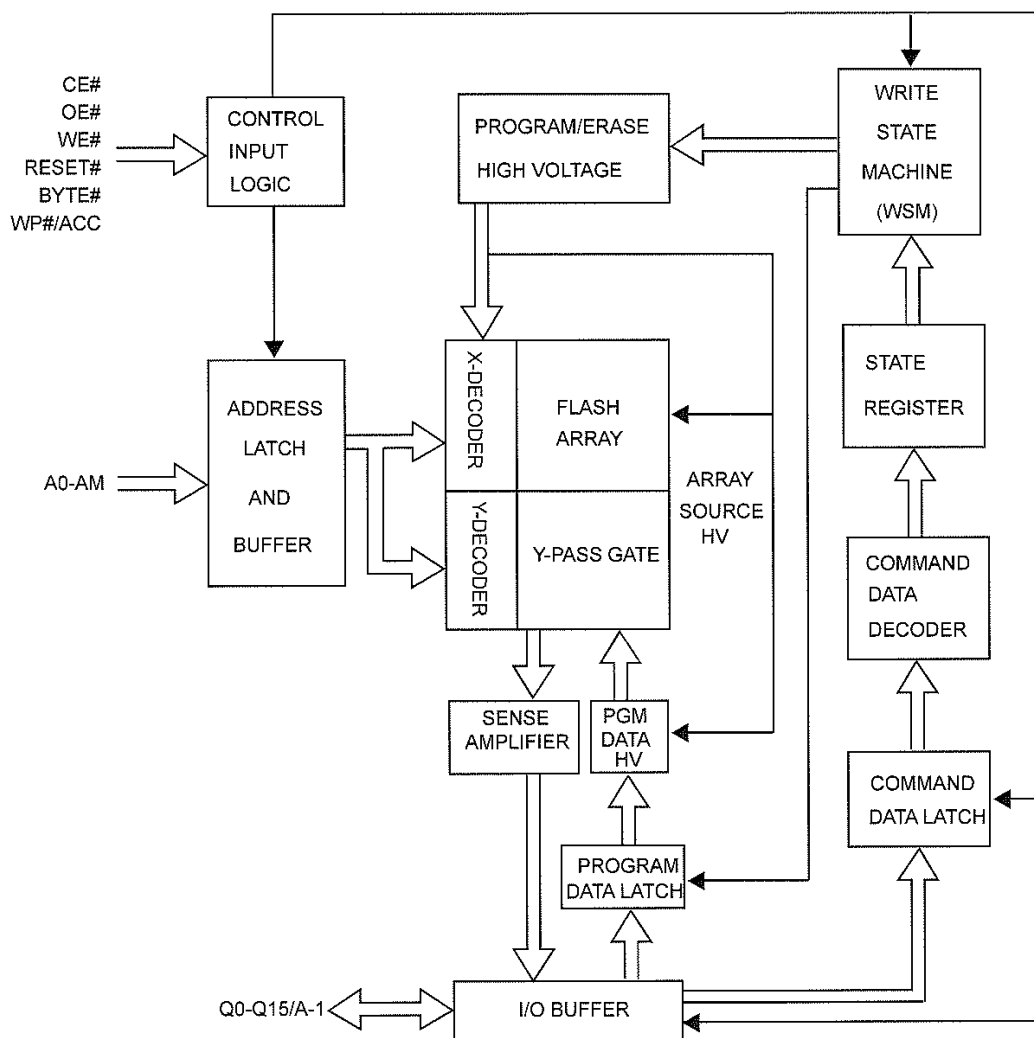
W9864G6JH-6 Pin description

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	$\overline{\text{CS}}$	Chip Select	Disable or enable the command decoder. When command decoder is disabled, new command is ignored and previous operation continues.
19	$\overline{\text{RAS}}$	Row Address Strobe	Command input. When sampled at the rising edge of the clock $\overline{\text{RAS}}$, $\overline{\text{CAS}}$ and $\overline{\text{WE}}$ define the operation to be executed.
18	$\overline{\text{CAS}}$	Column Address Strobe	Referred to $\overline{\text{RAS}}$
17	$\overline{\text{WE}}$	Write Enable	Referred to $\overline{\text{RAS}}$
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	VDD	Power	Power for input buffers and logic circuit inside DRAM.
44, 58, 72, 86	VSS	Ground	Ground for input buffers and logic circuit inside DRAM.
3, 9, 35, 41, 49, 55, 75, 81	VDDQ	Power for I/O Buffer	Separated power from VDD, to improve DQ noise immunity.
6, 12, 32, 38, 46, 52, 78, 84	VSSQ	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 (HDMI : IC410)



MX29LV160DBTI-70G Block Diagram



PCM5100 (HDMI:IC321)

PCM510X (top view)

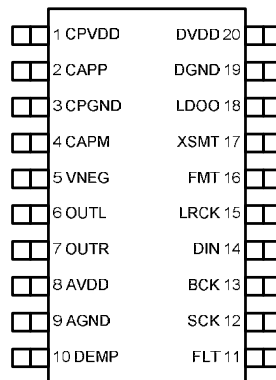


Table 2. TERMINAL FUNCTIONS, PCM510x

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 ² S (Low) / Left justified (High)
XSMT	17	I	Soft mute control : Soft mute (Low) / soft un-mute (High)
LDOO	18	-	Internal logic supply rail terminal for decoupling
DGND	19	-	Digital ground
DVDD	20	-	Digital power supply, 3.3V

(1) Failsafe LVCMOS Schmitt trigger input

PCM5100 Block Diagram

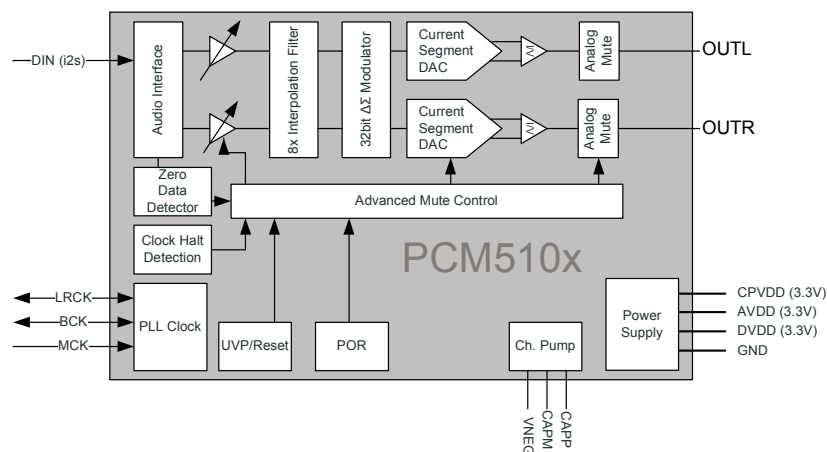
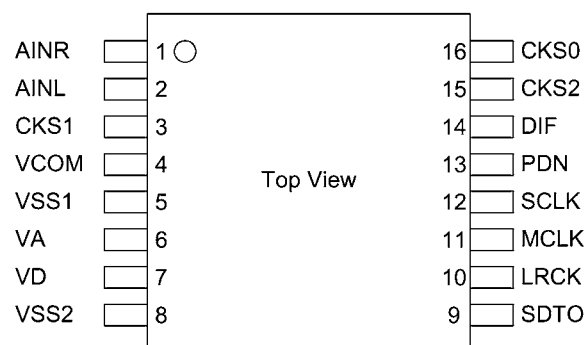


Figure 1. PCM510x Functional Block Diagram

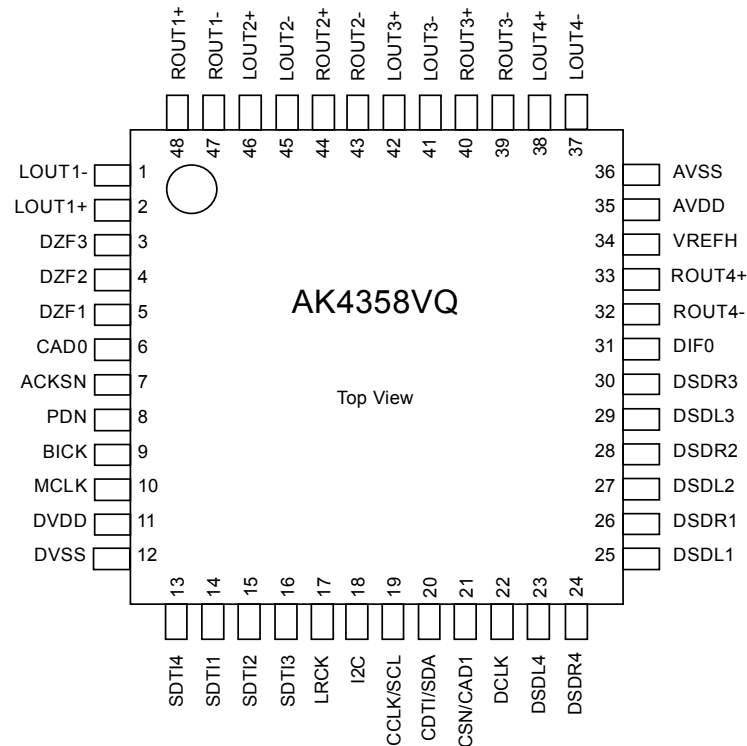
AK5358BET (HDMI : IC451)



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 ² S Compatible, “L”: 24bit MSB justified
15	CKS2	I	Mode Select 2 Pin
16	CKS0	I	Mode Select 0 Pin

AK4358VQ (HDMI : IC441)



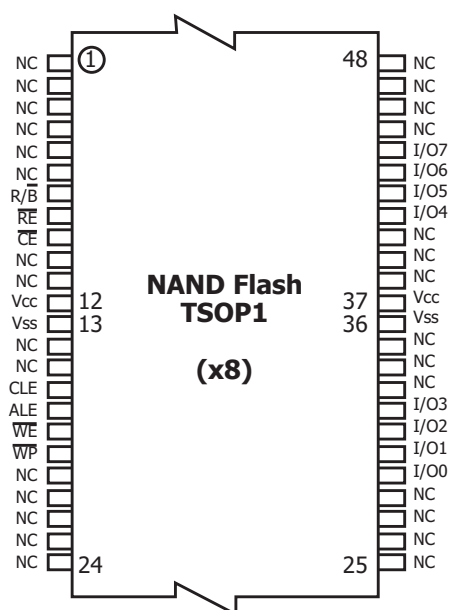
AK4358VQ Pin Function

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 ² C Bus
19	CCLK/SCL	I	Control Data Clock Pin I2C = “L”: CCLK (3-wire Serial), I2C = “H”: SCL (I ² C Bus)
20	CDTI/SDA	I/O	Control Data Input Pin I2C = “L”: CDTI (3-wire Serial), I2C = “H”: SDA (I ² C Bus)
21	CSN/CAD1	I	Chip Select Pin I2C = “L”: CSN (3-wire Serial), I2C = “H”: CAD1 (I ² C 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.

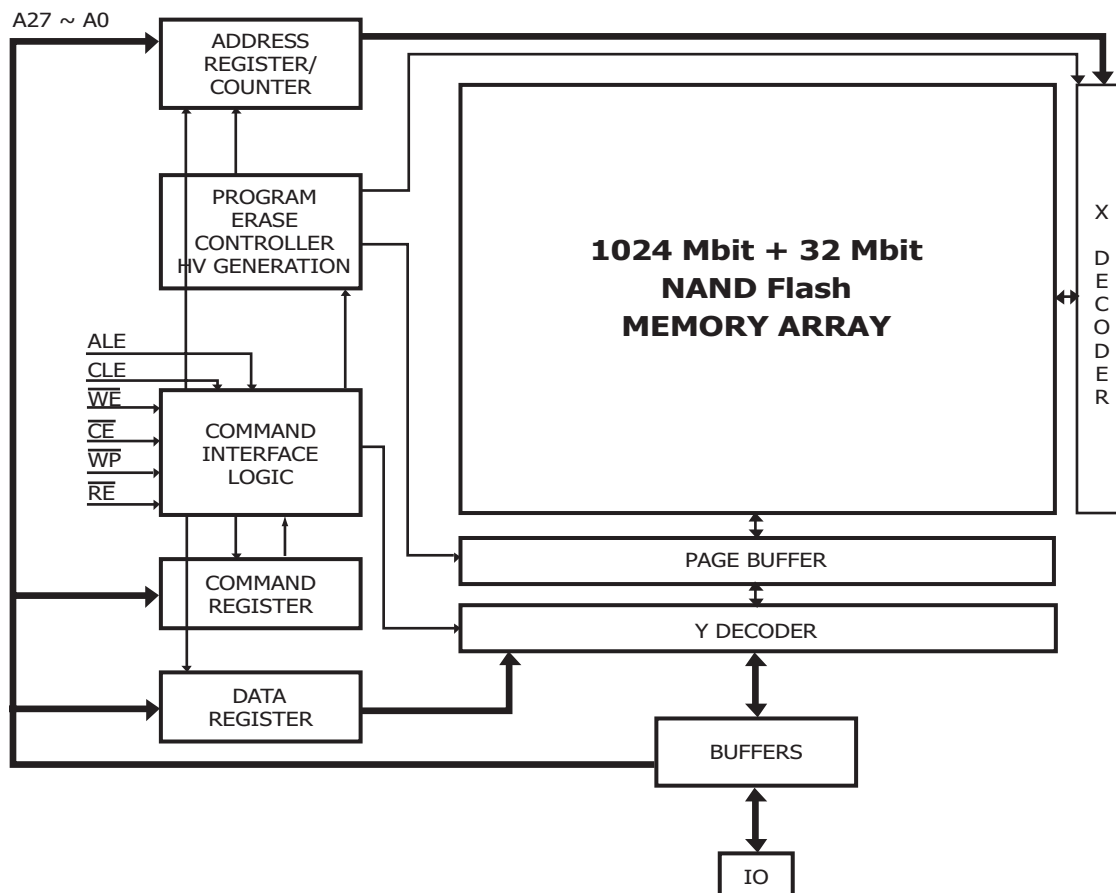
H27U1G8F2BTR-BC (HDMI : IC394)



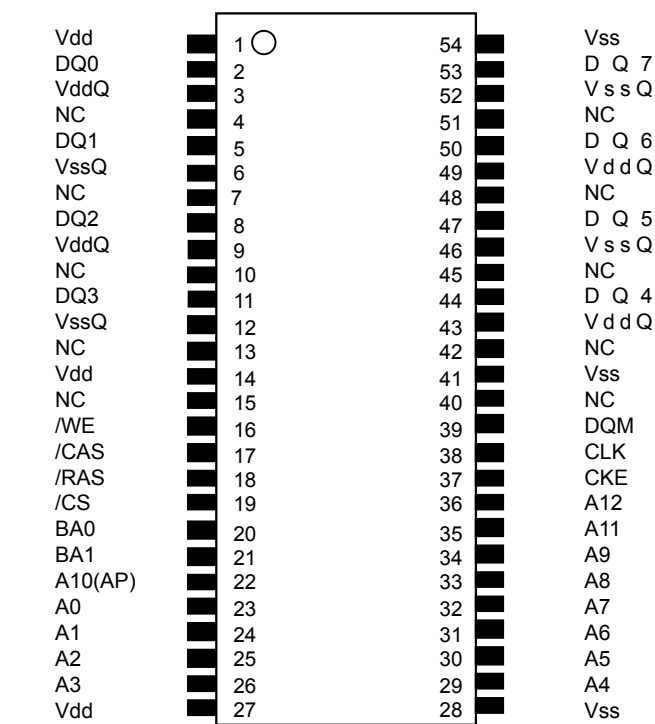
H27U1G8F2BTR-BC Pin Function

Pin Name	Description
I00 ~ I07	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 (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 (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 (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 WE.
$\overline{RE}$	READ ENABLE The 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 RE which also increments the internal column address counter by one.
$\overline{WP}$	WRITE PROTECT The 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



A3V56S30FTP-G6 (HDMI:IC392,393)

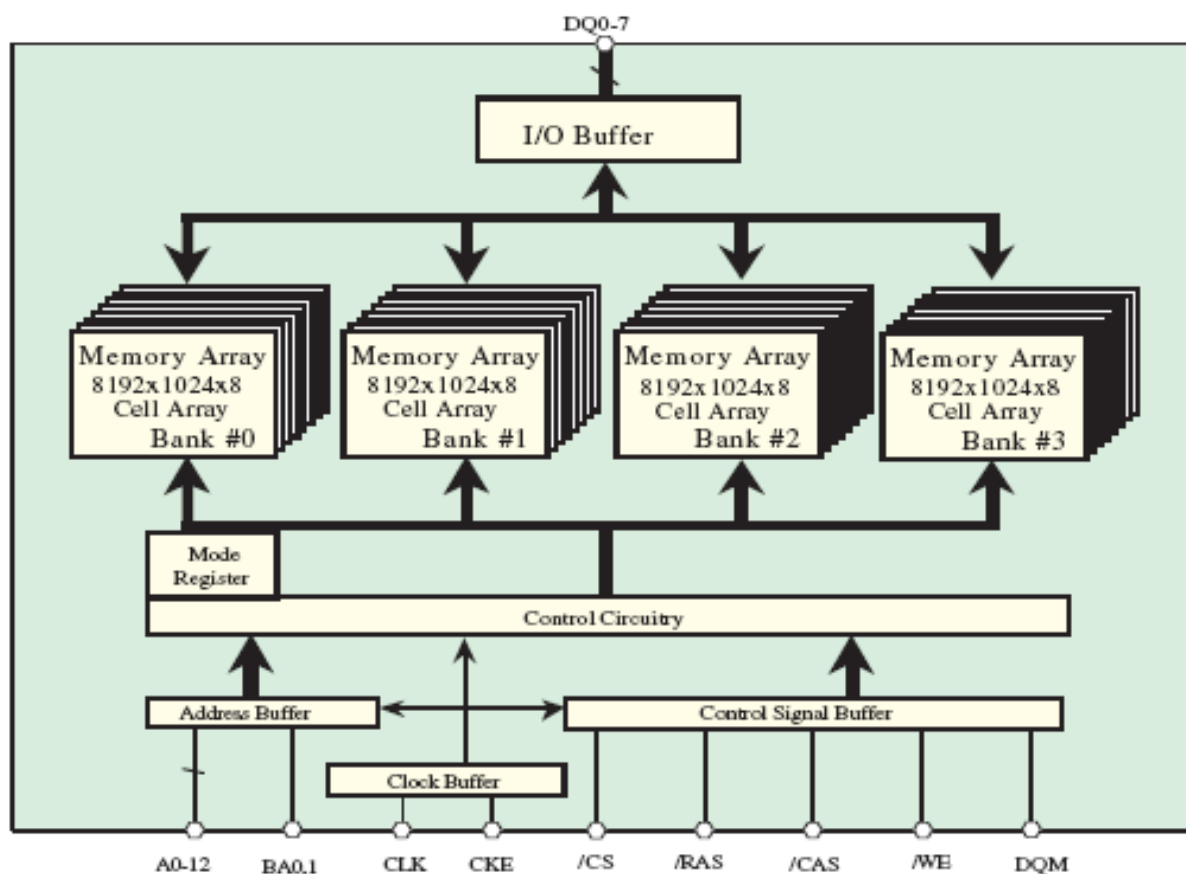


A3V56S30FTP-G6 Pin Function

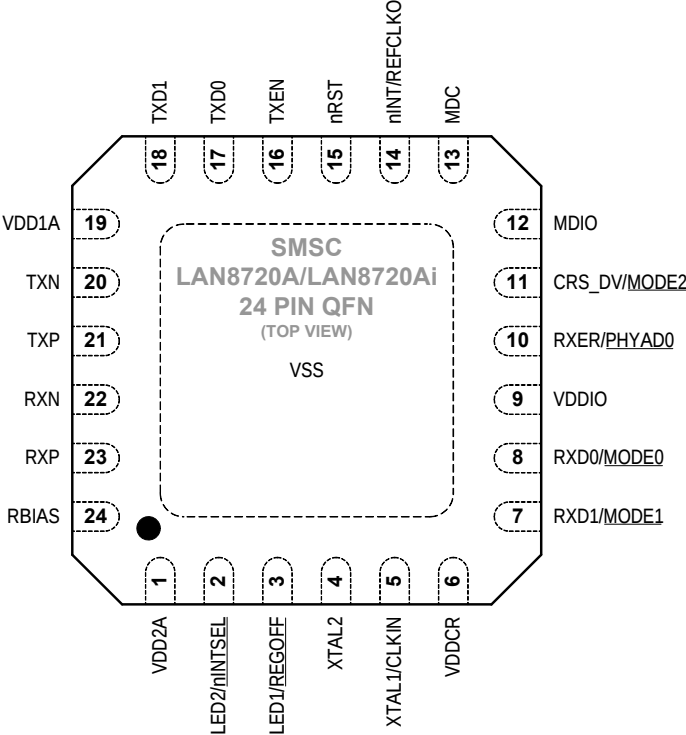
Pin Descriptions

SYMBOL	TYPE	DESCRIPTION
CLK	Input	Clock: CLK is driven by the system clock. All SDRAM input signals are sampled on the positive edge of CLK. CLK also increments the internal burst counter and controls the output registers.
CKE	Input	Clock Enable: CKE activates (HIGH) and deactivates (LOW) the CLK signal. Deactivating the clock provides PRECHARGE POWER-DOWN and SELF REFRESH operation (all banks idle), ACTIVE POWER-DOWN (row active in any bank), or CLOCK SUSPEND operation (burst / access in progress). CKE is synchronous except after the device enters self refresh mode, where CKE becomes asynchronous until after exiting the same mode. The input buffers, including CLK, are disabled during self refresh mode, providing low standby power. CKE may be tied HIGH.
/CS	Input	Chip Select: /CS enables (registered LOW) and disables (registered HIGH) the command decoder. All commands are masked when /CS is registered HIGH. /CS provides for external bank selection on systems with multiple banks. /CS is considered part of the command code.
/CAS, /RAS, /WE	Input	Command Inputs: /CAS, /RAS, and /WE (along with /CS) define the command being entered.
DQM, DQML, DQMU,	Input	Input / Output Mask: DQM is sampled HIGH and is an input mask signal for write accesses and an output disable signal for read accesses. Input data is masked during a WRITE cycle. The output buffers are placed in a High-Z state (two-clock latency) when during a READ cycle. DQM corresponds to DQ0–DQ7 (A3V56S30FTP). DQML corresponds to DQ0–DQ7, DQMU corresponds to DQ8–DQ15 (A3V56S40FTP).
BA0, BA1	Input	Bank Address Input(s): BA0 and BA1 define to which bank the ACTIVE, READ, WRITE or PRECHARGE command is being applied.
A0–A12	Input	A0-12 specify the Row / Column Address in conjunction with BA0,1. The Row Address is specified by A0-12. The Column Address is specified by A0-9(x8) and A0-8(x16). A10 is also used to indicate precharge option. When A10 is high at a read / write command, an auto precharge is performed. When A10 is high at a precharge command, all banks are precharged.
DQ0–DQ15	I/O	Data Input / Output: Data bus.
NC	–	Internally Not Connected: These could be left unconnected, but it is recommended they be connected or Vss.
VddQ	Supply	Data Output Power: Provide isolated power to output buffers for improved noise immunity.
VssQ	Supply	Data Output Ground: Provide isolated ground to output buffers for improved noise immunity.
Vdd	Supply	Power for the input buffers and core logic.
Vss	Supply	Ground for the input buffers and core logic.

A3V56S30FTP-G6 Block Diagram



LAN8720A (HDMI:IC322)



LAN8720A Pin Function

Table 2.8 24-QFN Package Pin Assignments

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

LAN8720A Block Diagram

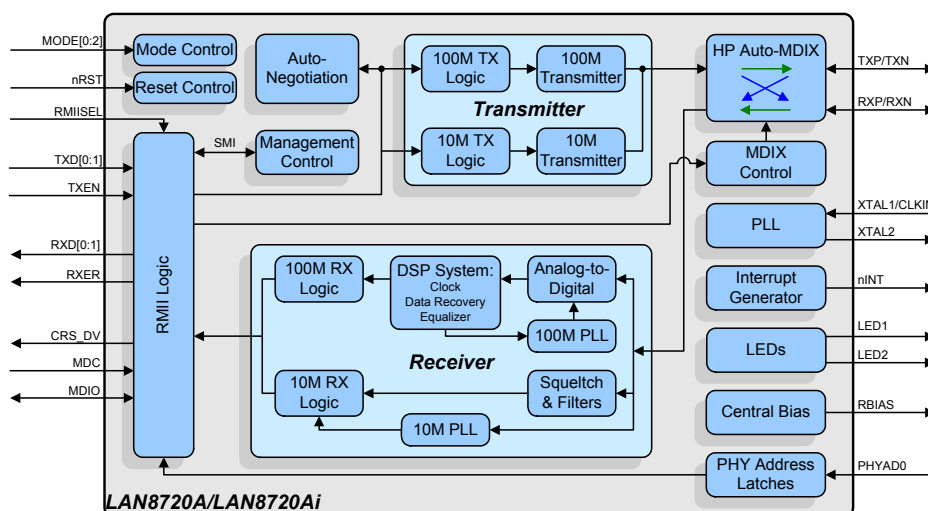
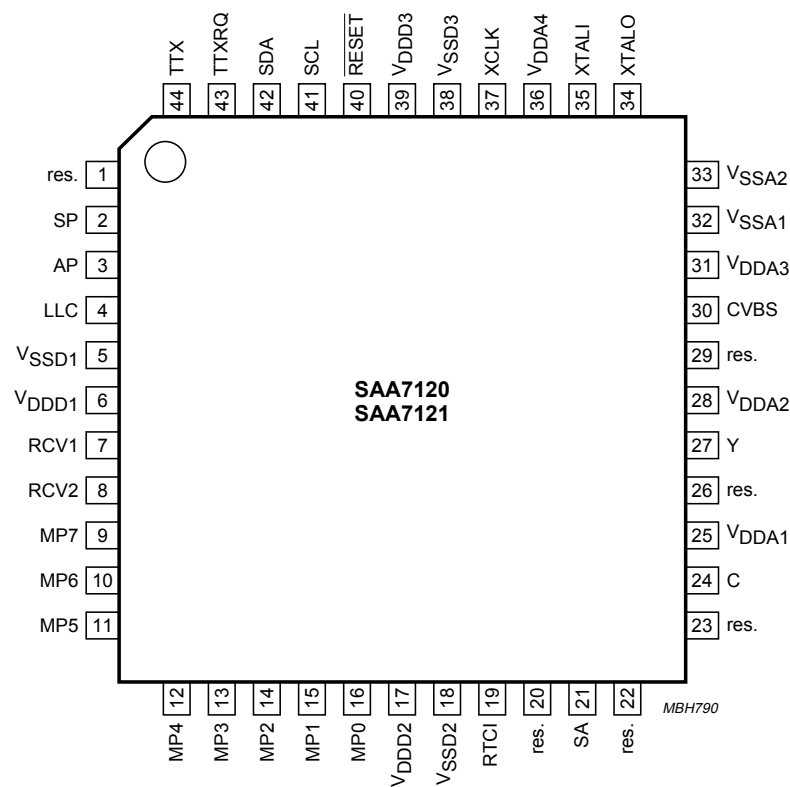
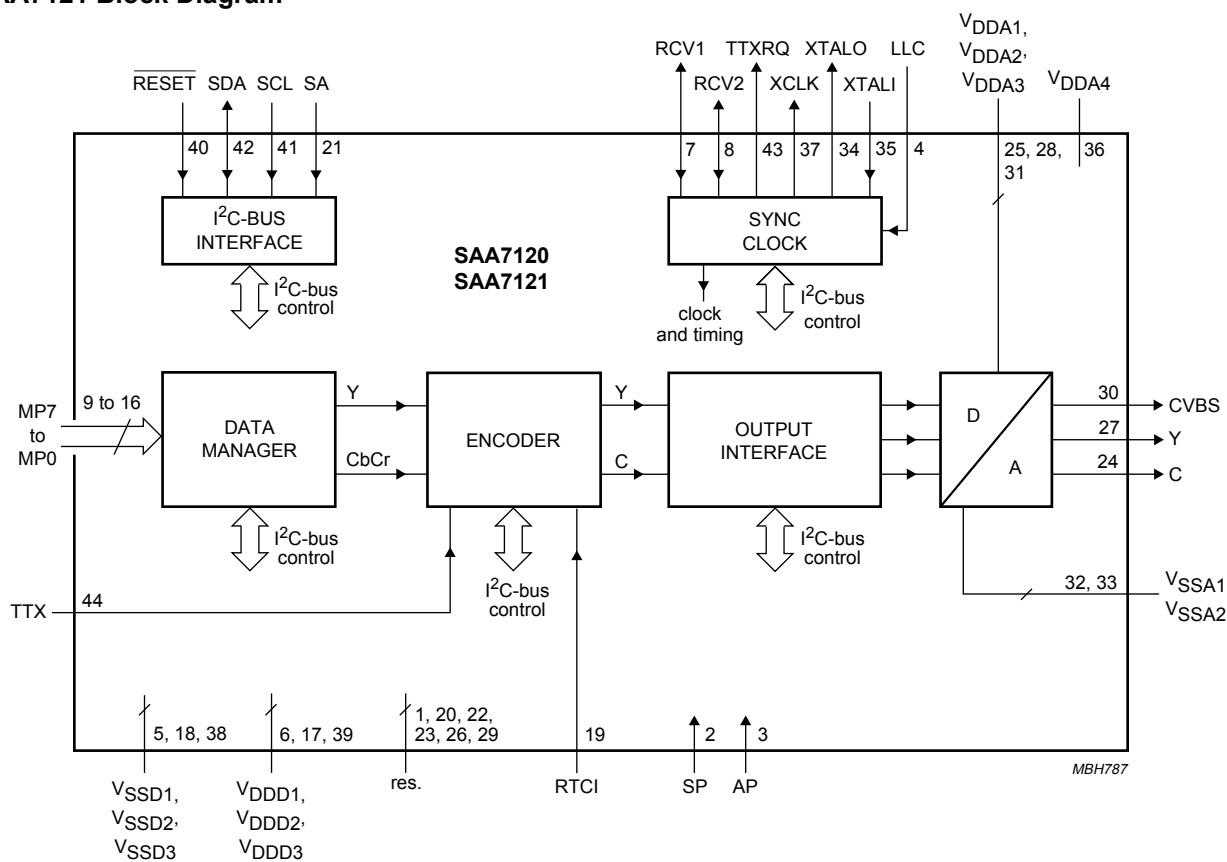


Figure 1.2 Architectural Overview

SAA7121 (HDMI : IC323)



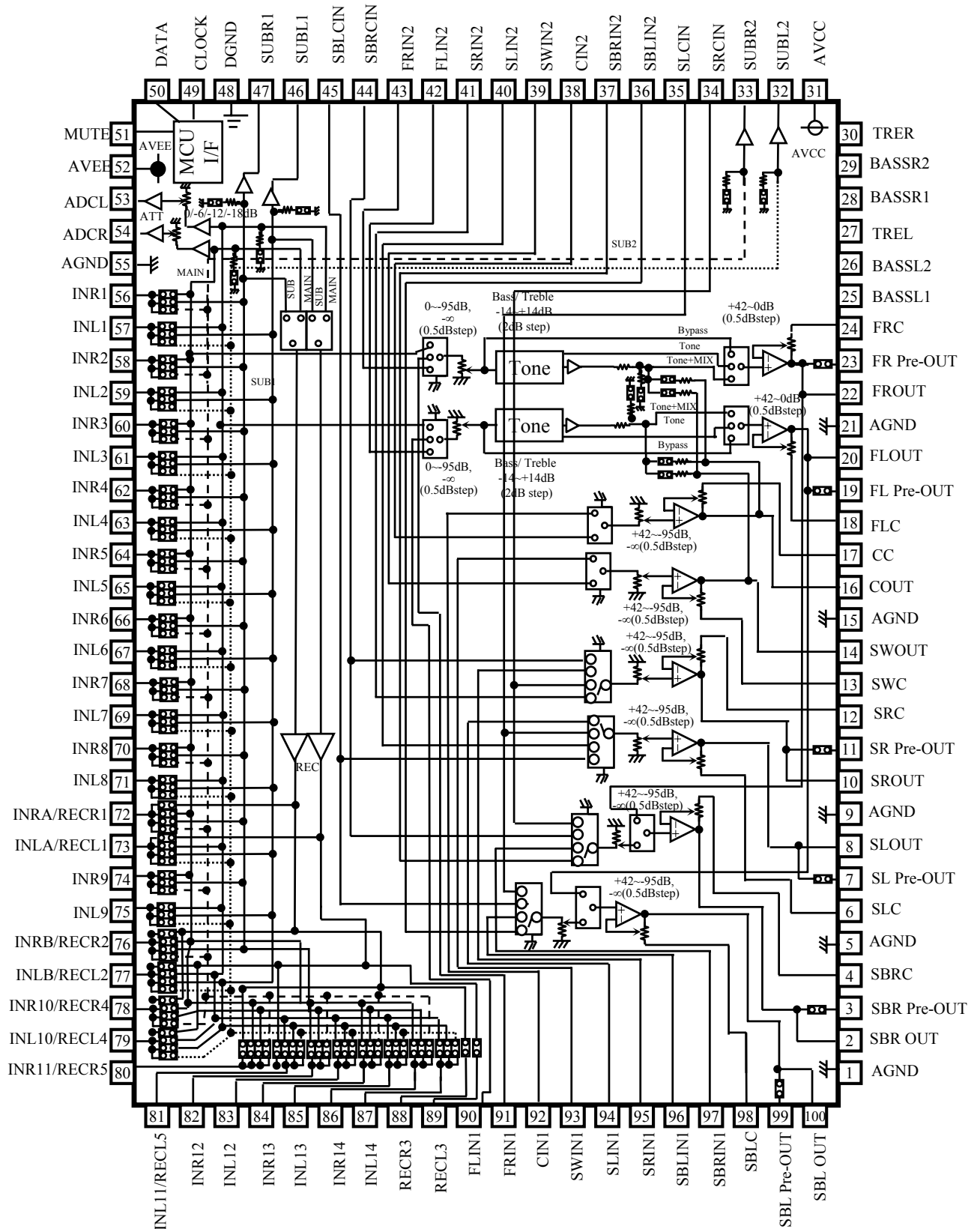
SAA7121 Block Diagram



SAA7121 Pin Description

SYMBOL	PIN	I/O	DESCRIPTION
res.	1	–	reserved
SP	2	I	test pin; connected to digital ground for normal operation
AP	3	I	test pin; connected to digital ground for normal operation
LLC	4	I	line-locked clock; this is the 27 MHz master clock for the encoder
V _{SSD1}	5	I	digital ground 1
V _{DDD1}	6	I	digital supply voltage 1
RCV1	7	I/O	raster control 1 for video port; this pin receives/provides a VS/FS/FSEQ signal
RCV2	8	I/O	raster control 2 for video port; this pin provides an HS pulse of programmable length or receives an HS pulse
MP7	9	I	MPEG port; it is an input for “CCIR 656” style multiplexed Cb Y, Cr data
MP6	10	I	
MP5	11	I	
MP4	12	I	
MP3	13	I	
MP2	14	I	
MP1	15	I	
MP0	16	I	
V _{DDD2}	17	I	digital supply voltage 2
V _{SSD2}	18	I	digital ground 2
RTCI	19	I	Real Time Control input; if the LLC clock is provided by an SAA7111 or SAA7151B, RTCI should be connected to pin RTCO of the decoder to improve the signal quality
res.	20	–	reserved
SA	21	I	the I ² C-bus slave address select input pin; LOW: slave address = 88H, HIGH = 8CH
res.	22	–	reserved
res.	23	–	reserved
C	24	O	analog output of the chrominance signal
V _{DDA1}	25	I	analog supply voltage 1 for the C DAC
res.	26	–	reserved
Y	27	O	analog output of VBS signal
V _{DDA2}	28	I	analog supply voltage 2 for the Y DAC
res.	29	–	reserved
CVBS	30	O	analog output of the CVBS signal
V _{DDA3}	31	I	analog supply voltage 3 for the CVBS DAC
V _{SSA1}	32	I	analog ground 1 for the DACs
V _{SSA2}	33	I	analog ground 2 for the oscillator and reference voltage
XTALO	34	O	crystal oscillator output (to crystal)
XTALI	35	I	crystal oscillator input (from crystal); if the oscillator is not used, this pin should be connected to ground
V _{DDA4}	36	I	analog supply voltage 4 for the oscillator and reference voltage
XCLK	37	O	clock output of the crystal oscillator

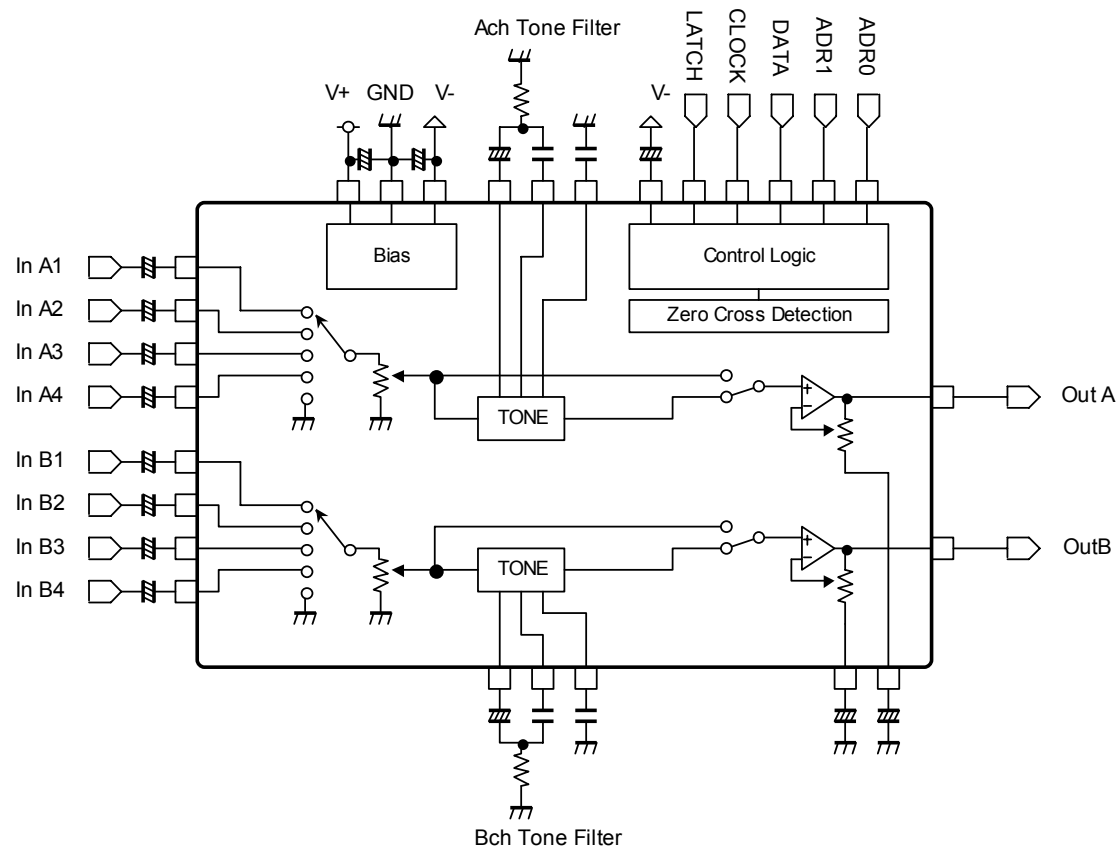
R2A15220FP (AUDIO : IC471)



R2A15220FP Pin Function

PIN No.	Name	Function
22,20, 16,14, 10, 8, 2, 100	FROUT,FLOUT, COUT,SWOUT, SROUT, SLOUT, SBROUT,SBLOUT	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
23,19, 11, 7, 3, 99	FR Pre-out,FL Pre-out, SR Pre-out, SL Pre-out, SBR Pre-out,SBL Pre-out	Pre-output pin of FL/FR/SL/SR/SBL/SBR channel
24,18, 17,13, 12, 6, 4, 98	FRC,FLC, CC,SWC, SRC,SLC, SBRC,SBLC	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
1,5,9,15, 21,55,98	AGND	Analog ground of internal circuit
27,30	TREL, TRER	Frequency characteristic setting pin of L/R channel tone control (Treble)
25,26, 28,29	BASSL1,BASSL2 BASSR1,BASSR2	Frequency characteristic setting pin of L/R channel tone control (Bass)
31	AVCC	Positive power supply to internal circuit
43,42, 41,40, 39,38, 37,36	FRIN2, FLIN2, SRN2,SLIN2, SWIN2,CIN2, SBRIN2,SBLIN2	Multi Input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
90,91, 92,93, 94,95, 96,97	FLIN1, FRIN1, CIN1,SWIN1, SLIN1,SRIN1, SBLIN1,SBRIN1	
48	DGND	Digital ground of internal circuit
49	DATA	Input pin of control data
50	CLOCK	Input pin of control clock
52	AVEE	Negative power supply to internal circuit
57,59,61,63, 65,67,69,71, 75,83,85,87	INL1,INL2, INL3,INL4, INL5,INL6,INL7,INL8, INL9,INL12,INL13,INL14	Input pin of L/R channel (Input Selector)
56,58,60,62, 64,66,68,70, 74,82,84,86	INR1,INR2, INR3,INR4, INR5,INR6,INR7,INR8, INR9,INR12,INR13,INR14	
51	MUTE	Outside Mute Control PIN
44,45 34,35	SBRCIN,SBLCIN SRCIN,SLCIN	3 rd Multi Input pin for SBL/SBR/SL/SR channel Volume that is able to swap SBR/SBL with SR/SL
46,47 33,32	SUBL1,SUBR1 SUBL2,SUBR2	Output pin for L/R channel SUB1/SUB2 Output
53,54	ADCL, ADCR	Output pin for L/R channel ADC
88,89	RECR3,RECL3	Output pin for L/R channel REC Output
72,73, 76,77, 78,79 80,81	INRA/RECR1,INLA/RECL1, INRB/RECR2,INLB/RECL2, INR10/RECR4,INL10/RECL4, INR11/RECR5,INL11/RECL5	Input pin of L/R channel (Input Selector)/ Output pin for L/R channel REC Output

NJW1194A (AUDIO : IC484,IC489)



FLD (17-BT-40GINK) (FRONT : FL601)



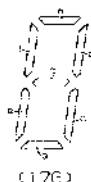
PIN NO.	62	61	60	59	58	57	56	55	54	53	52
CONNECTION	F2	NX	PN	PN	GG	PG	VH	VD	OS	IRMS	CC

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NOTE 1) F1,F2 --- Filament
      2) NP ----- No pin
      3) DL ----- Datum Line
      4) NX ----- No extend pin
      5) 17G ----- Grid
      6) Q17G ----- Driver Output Port
      7) LGND ----- Logic GND pin
      8) PGND ----- Power GND pin
      9) VH ----- High Voltage Supply pin
     10) VDD ----- Logic Voltage Supply pin
     11) OSC ----- Pin for self-oscillation
     12) RESET ---- Reset Input
     13) CS ----- Chip Select Input pin
     14) CP ----- Shift Register Clock
     15) DA ----- Serial Data Input
     16) TSA,B --- Test pin
     17) Solder composition is Sn-3Ag-0.5Cu.
     18) Field of vision is a minimum of 17.6° from the lower side.

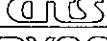
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13	26	36	46	56	66	76	86	96	00	10	125	130	145	156	166	176
13	26	36	46	56	66	76	86	96	00	10	125	130	145	156	166	176



ANODE CONNECTION

	1G~16G	17G
D0A	1-1A	-
D1A	2-1A	-
D2A	3-1A	-
D3A	4-1A	-
D4A	5-1A	-
D5A	1-2A	-
D6A	2-2A	-
D7A	3-2A	-
D8A	4-2A	-
D9A	5-2A	-
D10A	1-3A	dB
D11A	2-3A	Dp
D12A	3-3A	3d
D13A	4-3A	3e
D14A	5-3A	3c
D15A	1-4A	3g
D16A	2-4A	3f
D17A	3-4A	3b
D18A	4-4A	3a
D19A	5-4A	2d
D20A	1-5A	2e
D21A	2-5A	2c
D22A	3-5A	2g
D23A	4-5A	2f
D24A	5-5A	2b
D25A	1-6A	2a
D26A	2-6A	1d
D27A	3-6A	1e
D28A	4-6A	1c
D29A	5-6A	1g
D30A	1-7A	1f
D31A	2-7A	1b
D32A	3-7A	1a
D33A	4-7A	S1
D34A	5-7A	

	1G~16G	17G
D0B	1-1B	
D1B	2-1B	
D2B	3-1B	
D3B	4-1B	
D4B	5-1B	
D5B	1-2B	
D6B	2-2B	
D7B	3-2B	AUDYSSEY
D8B	4-2B	TUNED
D9B	5-2B	STEREO
D10B	1-3B	RDS
D11B	2-3B	M
D12B	3-3B	1
D13B	4-3B	2
D14B	5-3B	
D15B	1-4B	
D16B	2-4B	MUTE
D17B	3-4B	IN
D18B	4-4B	OUT
D19B	5-4B	
D20B	1-5B	
D21B	2-5B	
D22B	3-5B	
D23B	4-5B	
D24B	5-5B	
D25B	1-6B	
D26B	2-6B	
D27B	3-6B	
D28B	4-6B	
D29B	5-6B	A
D30B	1-7B	B
D31B	2-7B	
D32B	3-7B	
D33B	4-7B	
D34B	5-7B	

PARTS LIST OF PCB 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.

U : North America model

N : Europe model

K : China model

FRONT PCB ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
IC601	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)	CVIAZ4580MTR-E1		
IC603	963231101200S	I.C, REGULATOR(ADJ/TO-252)	CVINJM2887DL3		
IC607	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)	CVIAZ4580MTR-E1		
Q6005	943219006820S	TR KTC1027Y	CVTKTC1027YT		
Q6011	943216500020S	T.R,RT1N141C(10K-10K)	CVTRT1N141C		
Q6014-6016	943216500020S	T.R,RT1N141C(10K-10K)	CVTRT1N141C		
Q6042	943214500020S	T.R,2SC3052	CVT2SC3052		
Q6081	943216500020S	T.R,RT1N141C(10K-10K)	CVTRT1N141C		
Q6112	943215500020S	T.R,RT1P141C(10K-10K)	CVTRT1P141C		
Q6153	943216500020S	T.R,RT1N141C(10K-10K)	CVTRT1N141C		
Q6313,6314	943216500020S	T.R,RT1N141C(10K-10K)	CVTRT1N141C		
Q6702	943216500020S	T.R,RT1N141C(10K-10K)	CVTRT1N141C		
D6021	90M-HD302360R	DIODE , ZENER ,1/2W, 6.8V	CVDZJ6.8BT		
D6023,6024	943203003150S	DIODE , RECTIFIER, RADIAL	CVD1N4007SRT		
D6026	943202007690S	DIODE , ZENER ,1/2W, 18V	CVDZJ18BT		
D6027	00D9430087209	DIODE , ZENER ,1/2W, 24V	CVDZJ24BT		
D6029,6030	90M-HI101190R	BLUE L.E.D	CVD52CSBBCEAB2		
D6033,6034	90M-HI101190R	BLUE L.E.D	CVD52CSBBCEAB2		
D6037,6038	263010046507S	LED , SUPER RED	CVDBLBUF4V5K1AV		
D6039-6041	00D9630328409	DIODE , RECTIFIERS	CVD1N4007ST		
D6453-6455	963209003510S	DIODE , RELIABLE ESD PROTECTION	CVDCDS3C05HDMI1		
D6712	00D2760694903	DIODE , ZENER (CHIP,5.1V)	HVDUDZS5.1BSR		
D6729,6730	00D2760694903	DIODE , ZENER (CHIP,5.1V)	HVDUDZS5.1BSR		
CAPACITORS GROUP					
C6007	nsp	CAP, ELECT(63V/470uF)	CCEA1JH471E		
C6008	nsp	WIRE , COPPER	C3A206		
C6014	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC		
C6021	00D9430175108	CAP, ELECT(50V/10uF)	CCEA1HH100T		
C6022,6023	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC		
C6025	943134010530S	CAP, ELECT(50V/1uF)	CCEA1HH1R0T		
C6027	943134010530S	CAP, ELECT(50V/1uF)	CCEA1HH1R0T		
C6034	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC		
C6046	943134010530S	CAP, ELECT(50V/1uF)	CCEA1HH1R0T		
C6052	00D9430175108	CAP, ELECT(50V/10uF)	CCEA1HH100T		
C6071-6073	nsp	CAP, CHIP(1608, 50V/100pF)	CCUS1H101JA		
C6081	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC		
C6083	nsp	CAP, CHIP(1608, 50V/0.01uF)	CCUS1H103KC		
C6091-6093	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC		
C6094	00D9430175108	CAP, ELECT(50V/10uF)	CCEA1HH100T		
C6095	nsp	CAP, CHIP(1608, 50V/0.1uF)	CCUS1H104KC		
C6096-6098	nsp	CAP, CHIP(1608, 50V/100pF)	CCUS1H101JA		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C6099	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC		
	C6113	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C6114	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C6128	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C6151	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C6152,6153	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C6353,6354	nsp	CAP, CHIP(1608, 50V/0.047uF)		CCUS1H473KC		
	C6380,6381	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C6423,6424	nsp	CAP, CHIP(1608, 50V/0.047uF)		CCUS1H473KC		
	C6453	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C6454	00D9430173003	CAP, ELECT(10V/220uF)-S		CCEA1AKS221T		
	C6501,6502	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC		
	C6511	nsp	CAP, ELECT(50V/1uF)-S		CCEA1HKS1R0T		
	C6512,6513	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C6523	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C6601	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C6603,6604	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA		
	C6623,6624	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C6691	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C6693	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C6702	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C6712	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C6719	00D9430062101	CAP, ELECT(16V/100uF)		CCEA1CH101T		
	C6720	nsp	CAP, CHIP(1608, 50V/82pF)		CCUS1H820JA		
	C6731,6732	943134010530S	CAP, ELECT(50V/1uF)		CCEA1HH1R0T		
	C6733,6734	nsp	CAP, CHIP(1608, 50V/0.047uF)		CCUS1H473KC		
	C6735	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C6753	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C6801	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
RESISTORS GROUP							
	R6001,6002	00MNN05201610	RES, CHIP(1608/5%/200ohm)		CRJ10DJ201T		
	R6003,6004	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R6005	00MNN05010610	RES, CHIP(1608/5%/1ohm)		CRJ10DJ1R0T		
	R6006	nsp	RES, CHIP(1608/5%/2.2ohm)		CRJ10DJ2R2T		
	R6016	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R6024	943124500040S	RES, M-OXIDE FILM(1W/4.7ohm)		CRG1SANJ4R7RT		
	R6025,6026	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R6031	00MNN05273610	RES,CHIP(1608/5%/27Kohm)		CRJ10DJ273T		
	R6032	00MNN05224610	RES, CHIP(1608/5%/220Kohm)		CRJ10DJ224T		
	R6033,6034	00MNN05100610	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T		
	R6038,6039	00MNN05100610	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T		
	R6041	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R6042	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R6043	00MNN05473610	RES, CHIP(1608/5%/47Kohm)		CRJ10DJ473T		
	R6044	nsp	RES, CHIP(1608/5%/390Kohm)		CRJ10DJ394T		
	R6046	00MNN05124610	RES,CHIP(1608/5%/120Kohm)		CRJ10DJ124T		
	R6049-6051	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R6058-6060	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R6066-6068	00MNN05151610	RES, CHIP(1608/5%/150ohm)		CRJ10DJ151T		
	R6071-6073	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R6079-6081	00MNN05181610	RES, CHIP(1608/5%/180ohm)		CRJ10DJ181T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R6082	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R6084,6085	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R6088,6089	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T		
	R6093-6096	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R6097,6098	00MNN05561610	RES, CHIP(1608/5%/560ohm)		CRJ10DJ561T		
	R6105	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R6106	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T		
	R6108	00MNN05821610	RES, CHIP(1608/5%/820ohm)		CRJ10DJ821T		
	R6109	00MNN05561610	RES, CHIP(1608/5%/560ohm)		CRJ10DJ561T		
	R6110	nsp	RES, CHIP(1608/5%/75Kohm)		CRJ10DJ753T		
	R6111	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R6112	00MNN05154610	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T		
	R6115,6116	00MNN05122610	RES,CHIP(1608/5%/1.2Kohm)		CRJ10DJ122T		
	R6117	00MNN05151610	RES, CHIP(1608/5%/150ohm)		CRJ10DJ151T		
	R6119	00MNN05151610	RES, CHIP(1608/5%/150ohm)		CRJ10DJ151T		
	R6121	00MNN05151610	RES, CHIP(1608/5%/150ohm)		CRJ10DJ151T		
	R6123	00MNN05151610	RES, CHIP(1608/5%/150ohm)		CRJ10DJ151T		
	R6128	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R6147	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R6152	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R6155	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R6301	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R6302	00MNN05391610	RES, CHIP(1608/5%/390ohm)		CRJ10DJ391T		
	R6351,6352	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R6353,6354	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R6421,6422	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R6423,6424	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R6451	00MNN05222610	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T		
	R6452-6454	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R6503	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R6601,6602	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R6603-6605	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R6607	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R6613,6614	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R6703	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R6704	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R6711	00MNN05222610	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T		
	R6718	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R6719	00MNN05821610	RES, CHIP(1608/5%/820ohm)		CRJ10DJ821T		
	R6720	nsp	RES, CHIP(1608/5%/18Kohm)		CRJ10DJ183T		
	R6721	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
	R6723	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R6726	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R6734	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
OTHERS PARTS GROUP							
	BK601	nsp	BRACKET , PCB		CMD1A569		
	BK604	nsp	BRACKET , VFD		CMD1A793		
	BK605,606	nsp	BRACKET , FLT		CMD1A209		
	BN321	nsp	WIRE ASS'Y (5P,2.0MM,550MM,UL2725#24/#28,1P+2C)USB		CWB8A005550LC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	BN605	nsp	WIRE ASS'Y , (5P, 100mm, 2mm PITCH, UL1007, #24)		CWB1C005100CC		
	BN608	nsp	WIRE ASS'Y , (3P, 80mm, 2mm PITCH, UL1007, #24)		CWB1C003080CC		
	CN602	nsp	WAFER/ANGLE/2.5mm/07P		CJP07GB03ZY		
	CN69A	nsp	WAFER, FFC, 40P, 1mm, ANGLE(DIP)		CJP40GB284ZN		
△	F6001	943652000620S	FUSE(372 Series/100mA/TR5)		CBA2D0100A3EYT		
	FL601	17201001300AS	VFD , FUTABA , 17-BT-040GINK , CIG-TYPE		CFL17BT040GINK		
	FL602	172010008005S	VFD, FUTABA, GP1261AI		CFLGP1261AI		
	JK604	943643101590S	JACK,USBSTRAIGHT(BLACK1.5A)		CJJ9X010Z		
	JK605	90M-YT004500R	JACK, PHONES(6.35mm,SILVER)		CJJ2E026Z		
	JK606	nsp	JACK, 3P(B/B/B)with S/W, SILVER, VERTICAL		CJJ4S051Z		
	JK607	943643102220S	JACK, MONO, 3.5mm, SILVER		CJJ1D004Z		*
	JW601-603	nsp	WIRE ASS'Y (1P, 80MM,BLK,#22)		CWE5202080A		
	JW605	nsp	WIRE ASS'Y (1P, 80MM,BLK,#22)		CWE5202080A		
	L6451,6452	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	L6501	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	LD601	963263012100S	LED , RED/YELLOW GREEN		CVDBLBVT201GTBS20V		
	RC601	262010007707S	SENSOR, REMOTE(36.7KHz)		CRVHM336R		
	VR601	943663001560S	ENCODER		CSR2A047Z		
	VR604	943671010330S	ENCODER(16MM, 24PULSES),W/CLICK		CSR2A055Z		
	BU607	nsp	SUPPORT , IR		CHG1A533		
	S6001-6023	00D9430004402	TACT SW		CST1A012ZT		
	S6024	665010017006S	SW, SLIDE (1C2P, 12V , 0.1A)		CSS1B001Z		
		nsp	TAPE , BOTH SIDE		C4FM073		

FRONT HDMI PCB ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
IC101	nsp	I.C, HDMI BUFFER		CVIAD8195ACPZ	
Q7125	963219003340S	T.R , BIAS KTC3964		CVTKTC3964	
Q7131	00D9630235301	T.R Power, 2SD2560		HVT2SD2560	
Q7132	00D9630235204	T.R Power, 2SB1647		HVT2SB1647	
Q7225	963219003340S	T.R , BIAS KTC3964		CVTKTC3964	
Q7231	00D9630235301	T.R Power, 2SD2560		HVT2SD2560	
Q7232	00D9630235204	T.R Power, 2SB1647		HVT2SB1647	
Q7325	963219003340S	T.R , BIAS KTC3964		CVTKTC3964	
Q7331	00D9630235301	T.R Power, 2SD2560		HVT2SD2560	
Q7332	00D9630235204	T.R Power, 2SB1647		HVT2SB1647	
Q7425	963219003340S	T.R , BIAS KTC3964		CVTKTC3964	
Q7431	00D9630235301	T.R Power, 2SD2560		HVT2SD2560	
Q7432	00D9630235204	T.R Power, 2SB1647		HVT2SB1647	
Q7525	963219003340S	T.R , BIAS KTC3964		CVTKTC3964	
Q7531	00D9630235301	T.R Power, 2SD2560		HVT2SD2560	
Q7532	00D9630235204	T.R Power, 2SB1647		HVT2SB1647	
Q7625	963219003340S	T.R , BIAS KTC3964		CVTKTC3964	
Q7631	00D9630235301	T.R Power, 2SD2560		HVT2SD2560	
Q7632	00D9630235204	T.R Power, 2SB1647		HVT2SB1647	
Q7725	963219003340S	T.R , BIAS KTC3964		CVTKTC3964	
Q7731	00D9630235301	T.R Power, 2SD2560		HVT2SD2560	
Q7732	00D9630235204	T.R Power, 2SB1647		HVT2SB1647	
CAPACITORS GROUP					
C1003-1006	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C1007	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC	
C1008-1012	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C1013	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC	
C1014	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C1015	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC	
C1016	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C1017	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC	
C1018-1020	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
RESISTORS GROUP					
R1001	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	
R1002	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R1005	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	
R1007	00MNN05473610	RES, CHIP(1608/5%/47Kohm)		CRJ10DJ473T	
R1012,1013	nsp	RES,CHIP(1608/5%/2Kohm)		CRJ10DJ202T	
R1022	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
OTHERS PARTS GROUP					
BK103	nsp	EARTH , HDMI		CMC1A436	
CN101	nsp	WAFER, FFC, SMD(23P-1mm, STRAIGHT)		CJP23GA193ZY	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	JK101	943643101930S	JACK, HDMI(KSI-TWI, W/O FLANGE)		CJJ9H015Z		
	L1001,1002	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
		18301001910AS	MODULE , HD RADIO	U	CNVKRM AVR2011		

AMP PCB ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
Q7001	943212500020S	High Voltage PNP Transistors(SOT-23)	CVTMMBT5401		
Q7104,7105	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA		
Q7114	00D2710314903	T.R , KTA1024Y	HVTKTA1024YT		
Q7118	00D2710314903	T.R , KTA1024Y	HVTKTA1024YT		
Q7120,7121	00D2730471907	T.R , KTC3206Y	HVTKTC3206YAT		
Q7138	943212500020S	High Voltage PNP Transistors(SOT-23)	CVTMMBT5401		
Q7139	943214500040S	High Voltage NPN Transistors(SOT-23)	CVTMMBT5551		
Q7204,7205	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA		
Q7214	00D2710314903	T.R , KTA1024Y	HVTKTA1024YT		
Q7218	00D2710314903	T.R , KTA1024Y	HVTKTA1024YT		
Q7220,7221	00D2730471907	T.R , KTC3206Y	HVTKTC3206YAT		
Q7238	943212500020S	High Voltage PNP Transistors(SOT-23)	CVTMMBT5401		
Q7239	943214500040S	High Voltage NPN Transistors(SOT-23)	CVTMMBT5551		
Q7304,7305	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA		
Q7314	00D2710314903	T.R , KTA1024Y	HVTKTA1024YT		
Q7318	00D2710314903	T.R , KTA1024Y	HVTKTA1024YT		
Q7320,7321	00D2730471907	T.R , KTC3206Y	HVTKTC3206YAT		
Q7338	943212500020S	High Voltage PNP Transistors(SOT-23)	CVTMMBT5401		
Q7339	943214500040S	High Voltage NPN Transistors(SOT-23)	CVTMMBT5551		
Q7404,7405	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA		
Q7414	00D2710314903	T.R , KTA1024Y	HVTKTA1024YT		
Q7418	00D2710314903	T.R , KTA1024Y	HVTKTA1024YT		
Q7420,7421	00D2730471907	T.R , KTC3206Y	HVTKTC3206YAT		
Q7438	943212500020S	High Voltage PNP Transistors(SOT-23)	CVTMMBT5401		
Q7439	943214500040S	High Voltage NPN Transistors(SOT-23)	CVTMMBT5551		
Q7504,7505	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA		
Q7514	00D2710314903	T.R , KTA1024Y	HVTKTA1024YT		
Q7518	00D2710314903	T.R , KTA1024Y	HVTKTA1024YT		
Q7520,7521	00D2730471907	T.R , KTC3206Y	HVTKTC3206YAT		
Q7538	943212500020S	High Voltage PNP Transistors(SOT-23)	CVTMMBT5401		
Q7539	943214500040S	High Voltage NPN Transistors(SOT-23)	CVTMMBT5551		
Q7604,7605	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA		
Q7614	00D2710314903	T.R , KTA1024Y	HVTKTA1024YT		
Q7618	00D2710314903	T.R , KTA1024Y	HVTKTA1024YT		
Q7620,7621	00D2730471907	T.R , KTC3206Y	HVTKTC3206YAT		
Q7638	943212500020S	High Voltage PNP Transistors(SOT-23)	CVTMMBT5401		
Q7639	943214500040S	High Voltage NPN Transistors(SOT-23)	CVTMMBT5551		
Q7704,7705	943211500150S	PNP, TO-92, LOW NOISE, HFE:300-600, FAILCHILD	CVTKSA992FTA		
Q7714	00D2710314903	T.R , KTA1024Y	HVTKTA1024YT		
Q7718	00D2710314903	T.R , KTA1024Y	HVTKTA1024YT		
Q7720,7721	00D2730471907	T.R , KTC3206Y	HVTKTC3206YAT		
Q7738	943212500020S	High Voltage PNP Transistors(SOT-23)	CVTMMBT5401		
Q7739	943214500040S	High Voltage NPN Transistors(SOT-23)	CVTMMBT5551		
D7011,7012	943209001080S	DIODE , CHIP , SWITCHING	CVD1SS355T		
D7108,7109	00D9430182609	DIODE , SWITCHING	CVD1SS133MT		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	D7115,7116	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7118	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7139	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7208,7209	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7215,7216	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7218	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7239	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7308,7309	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7315,7316	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7318	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7339	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7408,7409	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7415,7416	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7418	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7439	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7508,7509	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7515,7516	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7518	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7539	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7608,7609	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7615,7616	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7618	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7639	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7708,7709	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7715,7716	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7718	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D7739	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
CAPACITORS GROUP							
	C7001	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC		
	C7011,7012	943134501570S	CAP, ELECT(10V/330uF)		CCEA1AH331T		
	C7013	nsp	CAP, ELECT(10V/47uF)		CCEA1AH470T		
	C7101	943134500080S	CAP, ELECT(63V/47uF)		CCEA1JH470T		
	C7102	nsp	CAP, PE-FILM(100V/470pF/J)		CCME2A471JR11T		
	C7104	nsp	CAP, CHIP(1608, 50V/220pF)		CCUS1H221JA		
	C7105	nsp	CAP, CHIP(1608, 50V/2200pF)		CCUS1H222KC		
	C7106	00MOA10705020	CAP, ELECT(50V/100uF)		CCEA1HH101T		
	C7112	nsp	CAP, PE-FILM(100V/220pF/J)		CCME2A221JR11T		
	C7120	nsp	CAP, PE-FILM(100V/220pF/J)		CCME2A221JR11T		
	C7121	nsp	CAP, PE-FILM(100V/470pF/J)		CCME2A471JR11T		
	C7125	943134500080S	CAP, ELECT(63V/47uF)		CCEA1JH470T		
	C7131,7132	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T		
	C7138	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C7201	943134500080S	CAP, ELECT(63V/47uF)		CCEA1JH470T		
	C7202	nsp	CAP, PE-FILM(100V/470pF/J)		CCME2A471JR11T		
	C7204	nsp	CAP, CHIP(1608, 50V/220pF)		CCUS1H221JA		
	C7205	nsp	CAP, CHIP(1608, 50V/2200pF)		CCUS1H222KC		
	C7206	00MOA10705020	CAP, ELECT(50V/100uF)		CCEA1HH101T		
	C7212	nsp	CAP, PE-FILM(100V/220pF/J)		CCME2A221JR11T		
	C7220	nsp	CAP, PE-FILM(100V/220pF/J)		CCME2A221JR11T		
	C7221	nsp	CAP, PE-FILM(100V/470pF/J)		CCME2A471JR11T		
	C7225	943134500080S	CAP, ELECT(63V/47uF)		CCEA1JH470T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C7231,7232	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T		
	C7238	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C7301	943134500080S	CAP, ELECT(63V/47uF)		CCEA1JH470T		
	C7302	nsp	CAP, PE-FILM(100V/470pF/J)		CCME2A471JR11T		
	C7304	nsp	CAP, CHIP(1608, 50V/220pF)		CCUS1H221JA		
	C7305	nsp	CAP, CHIP(1608, 50V/2200pF)		CCUS1H222KC		
	C7306	00MOA10705020	CAP, ELECT(50V/100uF)		CCEA1HH101T		
	C7312	nsp	CAP, PE-FILM(100V/220pF/J)		CCME2A221JR11T		
	C7320	nsp	CAP, PE-FILM(100V/220pF/J)		CCME2A221JR11T		
	C7321	nsp	CAP, PE-FILM(100V/470pF/J)		CCME2A471JR11T		
	C7325	943134500080S	CAP, ELECT(63V/47uF)		CCEA1JH470T		
	C7331,7332	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T		
	C7338	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C7401	943134500080S	CAP, ELECT(63V/47uF)		CCEA1JH470T		
	C7402	nsp	CAP, PE-FILM(100V/470pF/J)		CCME2A471JR11T		
	C7404	nsp	CAP, CHIP(1608, 50V/220pF)		CCUS1H221JA		
	C7405	nsp	CAP, CHIP(1608, 50V/2200pF)		CCUS1H222KC		
	C7406	00MOA10705020	CAP, ELECT(50V/100uF)		CCEA1HH101T		
	C7412	nsp	CAP, PE-FILM(100V/220pF/J)		CCME2A221JR11T		
	C7420	nsp	CAP, PE-FILM(100V/220pF/J)		CCME2A221JR11T		
	C7421	nsp	CAP, PE-FILM(100V/470pF/J)		CCME2A471JR11T		
	C7425	943134500080S	CAP, ELECT(63V/47uF)		CCEA1JH470T		
	C7431,7432	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T		
	C7438	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C7501	943134500080S	CAP, ELECT(63V/47uF)		CCEA1JH470T		
	C7502	nsp	CAP, PE-FILM(100V/470pF/J)		CCME2A471JR11T		
	C7504	nsp	CAP, CHIP(1608, 50V/220pF)		CCUS1H221JA		
	C7505	nsp	CAP, CHIP(1608, 50V/2200pF)		CCUS1H222KC		
	C7506	00MOA10705020	CAP, ELECT(50V/100uF)		CCEA1HH101T		
	C7512	nsp	CAP, PE-FILM(100V/220pF/J)		CCME2A221JR11T		
	C7520	nsp	CAP, PE-FILM(100V/220pF/J)		CCME2A221JR11T		
	C7521	nsp	CAP, PE-FILM(100V/470pF/J)		CCME2A471JR11T		
	C7525	943134500080S	CAP, ELECT(63V/47uF)		CCEA1JH470T		
	C7531,7532	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T		
	C7538	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C7601	943134500080S	CAP, ELECT(63V/47uF)		CCEA1JH470T		
	C7602	nsp	CAP, PE-FILM(100V/470pF/J)		CCME2A471JR11T		
	C7604	nsp	CAP, CHIP(1608, 50V/220pF)		CCUS1H221JA		
	C7605	nsp	CAP, CHIP(1608, 50V/2200pF)		CCUS1H222KC		
	C7606	00MOA10705020	CAP, ELECT(50V/100uF)		CCEA1HH101T		
	C7612	nsp	CAP, PE-FILM(100V/220pF/J)		CCME2A221JR11T		
	C7620	nsp	CAP, PE-FILM(100V/220pF/J)		CCME2A221JR11T		
	C7621	nsp	CAP, PE-FILM(100V/470pF/J)		CCME2A471JR11T		
	C7625	943134500080S	CAP, ELECT(63V/47uF)		CCEA1JH470T		
	C7631,7632	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T		
	C7638	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C7701	943134500080S	CAP, ELECT(63V/47uF)		CCEA1JH470T		
	C7702	nsp	CAP, PE-FILM(100V/470pF/J)		CCME2A471JR11T		
	C7704	nsp	CAP, CHIP(1608, 50V/220pF)		CCUS1H221JA		
	C7705	nsp	CAP, CHIP(1608, 50V/2200pF)		CCUS1H222KC		
	C7706	00MOA10705020	CAP, ELECT(50V/100uF)		CCEA1HH101T		
	C7712	nsp	CAP, PE-FILM(100V/220pF/J)		CCME2A221JR11T		
	C7720	nsp	CAP, PE-FILM(100V/220pF/J)		CCME2A221JR11T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C7721	nsp	CAP, PE-FILM(100V/470pF/J)		CCME2A471JR11T		
	C7725	943134500080S	CAP, ELECT(63V/47uF)		CCEA1JH470T		
	C7731,7732	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T		
	C7738	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
RESISTORS GROUP							
	R7001	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7002	00MGD05223160	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R7011	00MNN05334610	RES, CHIP(1608/5%/330Kohm)		CRJ10DJ334T		
△	R7012	252310006520S	PTC THERMISTORS, CHIP(95°C)		CRTPRF18BD471QB5RB		
	R7013	00MNN05334610	RES, CHIP(1608/5%/330Kohm)		CRJ10DJ334T		
△	R7014	252310006520S	PTC THERMISTORS, CHIP(95°C)		CRTPRF18BD471QB5RB		
	R7016	00MGD05102160	RES, CARBON(1/5W,1Kohm,J)		CRD20TJ102T		
	R7017	00MGD05103160	RES, CARBON(1/5W,10Kohm,J)		CRD20TJ103T		
	R7018	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7101	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R7102	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T		
	R7103	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R7104	nsp	WIRE , COPPER		C3A206		
	R7105	nsp	RES, M-OXIDE FILM(1W/1Kohm)		CRG1SANJ102RT		
	R7106,7107	00MGD05151160	RES, CARBON(1/5W,150ohm,J)		CRD20TJ151T		
	R7108	nsp	RES, M-OXIDE FILM(1W/1Kohm)		CRG1SANJ102RT		
	R7109,7110	00MGD05221160	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T		
	R7111	nsp	RES, M-OXIDE FILM(1W/3.3Kohm)		CRG1SANJ332RT		
	R7112	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R7114	nsp	RES, M-OXIDE FILM(1W/56Kohm)		CRG1SANJ563RT		
	R7116,7117	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R7118,7119	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT		
	R7120	nsp	RES, M-OXIDE FILM(2W/15Kohm)		CRG2SANJ153RT		
	R7121	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT		
	R7122,7123	00MGD05224160	RES, CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R7124	00MGD05272160	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T		
	R7125	00MGD05471160	RES, CARBON(1/5W,470ohm,J)		CRD20TJ471T		
	R7126	00MGD05561160	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T		
	R7129,7130	943124500240S	RES, M-OXIDE FILM(1W/22ohm)		CRG1SANJ220RT		
	R7131-7134	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT		
	R7135,7136	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7137	nsp	RES, CARBON(1/5W,680Kohm,J)		CRD20TJ684T		
△	R7138	252310006506S	PTC THERMISTORS, CHIP(115°C)		CRTPRF18BB471QB5RB		
	R7139	nsp	RES, CHIP(1608/5%/180Kohm)		CRJ10DJ184T		
	R7140	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7141	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T		
	R7142	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T		
	R7143	00MGD05473160	RES, CARBON(1/5W,47Kohm,J)		CRD20TJ473T		
	R7144	nsp	RES, CHIP(3216/5%/22Kohm)		CRJ14CJ223T		
	R7145	00MGD05223160	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R7201	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R7202	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T		
	R7203	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R7204	nsp	WIRE , COPPER		C3A206		
	R7205	nsp	RES, M-OXIDE FILM(1W/1Kohm)		CRG1SANJ102RT		
	R7206,7207	00MGD05151160	RES, CARBON(1/5W,150ohm,J)		CRD20TJ151T		
	R7208	nsp	RES, M-OXIDE FILM(1W/1Kohm)		CRG1SANJ102RT		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R7209,7210	00MGD05221160	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T		
	R7211	nsp	RES, M-OXIDE FILM(1W/3.3Kohm)		CRG1SANJ332RT		
	R7212	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R7214	nsp	RES, M-OXIDE FILM(1W/56Kohm)		CRG1SANJ563RT		
	R7216,7217	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R7218,7219	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT		
	R7220	nsp	RES, M-OXIDE FILM(2W/15Kohm)		CRG2SANJ153RT		
	R7221	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT		
	R7222,7223	00MGD05224160	RES, CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R7224	00MGD05272160	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T		
	R7225	00MGD05471160	RES, CARBON(1/5W,470ohm,J)		CRD20TJ471T		
	R7226	00MGD05561160	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T		
	R7230	943124500240S	RES, M-OXIDE FILM(1W/22ohm)		CRG1SANJ220RT		
	R7231-7234	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT		
	R7235,7236	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7237	nsp	RES, CARBON(1/5W,680Kohm,J)		CRD20TJ684T		
⚠	R7238	252310006506S	PTC THERMISTORS, CHIP(115°C)		CRTPRF18BB471QB5RB		
	R7239	nsp	RES, CHIP(1608/5%/180Kohm)		CRJ10DJ184T		
	R7240	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7241	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T		
	R7242	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T		
	R7243	nsp	RES, CHIP(3216/5%/47Kohm)		CRJ14CJ473T		
	R7244	nsp	RES, CHIP(3216/5%/22Kohm)		CRJ14CJ223T		
	R7245	00MGD05223160	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R7279	943124500240S	RES, M-OXIDE FILM(1W/22ohm)		CRG1SANJ220RT		
	R7301	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R7302	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T		
	R7303	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R7304	nsp	WIRE , COPPER		C3A206		
	R7305	nsp	RES, M-OXIDE FILM(1W/1Kohm)		CRG1SANJ102RT		
	R7306,7307	00MGD05151160	RES, CARBON(1/5W,150ohm,J)		CRD20TJ151T		
	R7308	nsp	RES, M-OXIDE FILM(1W/1Kohm)		CRG1SANJ102RT		
	R7309,7310	00MGD05221160	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T		
	R7311	nsp	RES, M-OXIDE FILM(1W/3.3Kohm)		CRG1SANJ332RT		
	R7312	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R7314	nsp	RES, M-OXIDE FILM(1W/56Kohm)		CRG1SANJ563RT		
	R7316,7317	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R7318,7319	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT		
	R7320	nsp	RES, M-OXIDE FILM(2W/15Kohm)		CRG2SANJ153RT		
	R7321	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT		
	R7322,7323	00MGD05224160	RES, CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R7324	00MGD05272160	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T		
	R7325	00MGD05471160	RES, CARBON(1/5W,470ohm,J)		CRD20TJ471T		
	R7326	00MGD05561160	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T		
	R7329,7330	943124500240S	RES, M-OXIDE FILM(1W/22ohm)		CRG1SANJ220RT		
	R7331-7334	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT		
	R7335,7336	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7337	nsp	RES, CARBON(1/5W,680Kohm,J)		CRD20TJ684T		
⚠	R7338	252310006506S	PTC THERMISTORS, CHIP(115°C)		CRTPRF18BB471QB5RB		
	R7339	nsp	RES, CHIP(1608/5%/180Kohm)		CRJ10DJ184T		
	R7340	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7341	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T		
	R7342	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R7343	nsp	RES, CHIP(3216/5%/47Kohm)		CRJ14CJ473T		
	R7344	nsp	RES, CHIP(3216/5%/22Kohm)		CRJ14CJ223T		
	R7345	00MGD05223160	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R7401	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R7402	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T		
	R7403	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R7404	nsp	WIRE , COPPER		C3A206		
	R7405	nsp	RES, M-OXIDE FILM(1W/1Kohm)		CRG1SANJ102RT		
	R7406,7407	00MGD05151160	RES, CARBON(1/5W,150ohm,J)		CRD20TJ151T		
	R7408	nsp	RES, M-OXIDE FILM(1W/1Kohm)		CRG1SANJ102RT		
	R7409,7410	00MGD05221160	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T		
	R7411	nsp	RES, M-OXIDE FILM(1W/3.3Kohm)		CRG1SANJ332RT		
	R7412	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R7414	nsp	RES, M-OXIDE FILM(1W/56Kohm)		CRG1SANJ563RT		
	R7416,7417	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R7418,7419	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT		
	R7420	nsp	RES, M-OXIDE FILM(2W/15Kohm)		CRG2SANJ153RT		
	R7421	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT		
	R7422,7423	00MGD05224160	RES, CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R7424	00MGD05272160	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T		
	R7425	00MGD05471160	RES, CARBON(1/5W,470ohm,J)		CRD20TJ471T		
	R7426	00MGD05561160	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T		
	R7429,7430	943124500240S	RES, M-OXIDE FILM(1W/22ohm)		CRG1SANJ220RT		
	R7431-7434	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT		
	R7435,7436	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7437	nsp	RES, CARBON(1/5W,680Kohm,J)		CRD20TJ684T		
⚠	R7438	252310006506S	PTC THERMISTORS, CHIP(115°C)		CRTPRF18BB471QB5RB		
	R7439	nsp	RES, CHIP(1608/5%/180Kohm)		CRJ10DJ184T		
	R7440	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7441	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T		
	R7442	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T		
	R7443	00MGD05473160	RES, CARBON(1/5W,47Kohm,J)		CRD20TJ473T		
	R7444	nsp	RES, CHIP(3216/5%/22Kohm)		CRJ14CJ223T		
	R7445	00MGD05223160	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R7501	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R7502	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T		
	R7503	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R7504	nsp	WIRE , COPPER		C3A206		
	R7505	nsp	RES, M-OXIDE FILM(1W/1Kohm)		CRG1SANJ102RT		
	R7506,7507	00MGD05151160	RES, CARBON(1/5W,150ohm,J)		CRD20TJ151T		
	R7508	nsp	RES, M-OXIDE FILM(1W/1Kohm)		CRG1SANJ102RT		
	R7509,7510	00MGD05221160	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T		
	R7511	nsp	RES, M-OXIDE FILM(1W/3.3Kohm)		CRG1SANJ332RT		
	R7512	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R7514	nsp	RES, M-OXIDE FILM(1W/56Kohm)		CRG1SANJ563RT		
	R7516,7517	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R7518,7519	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT		
	R7520	nsp	RES, M-OXIDE FILM(2W/15Kohm)		CRG2SANJ153RT		
	R7521	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT		
	R7522,7523	00MGD05224160	RES, CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R7524	00MGD05272160	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T		
	R7525	00MGD05471160	RES, CARBON(1/5W,470ohm,J)		CRD20TJ471T		
	R7526	00MGD05561160	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R7529,7530	943124500240S	RES, M-OXIDE FILM(1W/22ohm)		CRG1SANJ220RT		
	R7531-7534	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT		
	R7535,7536	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7537	nsp	RES, CARBON(1/5W,680Kohm,J)		CRD20TJ684T		
⚠	R7538	252310006506S	PTC THERMISTORS, CHIP(115°C)		CRTPRF18BB471QB5RB		
	R7539	nsp	RES, CHIP(1608/5%/180Kohm)		CRJ10DJ184T		
	R7540	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7541	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T		
	R7542	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T		
	R7543	nsp	RES, CHIP(3216/5%/47Kohm)		CRJ14CJ473T		
	R7544	nsp	RES, CHIP(3216/5%/22Kohm)		CRJ14CJ223T		
	R7545	00MGD05223160	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R7601	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R7602	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T		
	R7603	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R7604	nsp	WIRE , COPPER		C3A206		
	R7605	nsp	RES, M-OXIDE FILM(1W/1Kohm)		CRG1SANJ102RT		
	R7606,7607	00MGD05151160	RES, CARBON(1/5W,150ohm,J)		CRD20TJ151T		
	R7608	nsp	RES, M-OXIDE FILM(1W/1Kohm)		CRG1SANJ102RT		
	R7609,7610	00MGD05221160	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T		
	R7611	nsp	RES, M-OXIDE FILM(1W/3.3Kohm)		CRG1SANJ332RT		
	R7612	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R7614	nsp	RES, M-OXIDE FILM(1W/56Kohm)		CRG1SANJ563RT		
	R7616,7617	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R7618,7619	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT		
	R7620	nsp	RES, M-OXIDE FILM(2W/15Kohm)		CRG2SANJ153RT		
	R7621	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT		
	R7622,7623	00MGD05224160	RES, CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R7624	00MGD05272160	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T		
	R7625	00MGD05471160	RES, CARBON(1/5W,470ohm,J)		CRD20TJ471T		
	R7626	00MGD05561160	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T		
	R7629,7630	943124500240S	RES, M-OXIDE FILM(1W/22ohm)		CRG1SANJ220RT		
	R7631-7634	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT		
	R7635,7636	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7637	nsp	RES, CARBON(1/5W,680Kohm,J)		CRD20TJ684T		
⚠	R7638	252310006506S	PTC THERMISTORS, CHIP(115°C)		CRTPRF18BB471QB5RB		
	R7639	nsp	RES, CHIP(1608/5%/180Kohm)		CRJ10DJ184T		
	R7640	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7641	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T		
	R7642	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T		
	R7643	nsp	RES, CHIP(3216/5%/47Kohm)		CRJ14CJ473T		
	R7644	nsp	RES, CHIP(3216/5%/22Kohm)		CRJ14CJ223T		
	R7655	00MGD05223160	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
	R7701	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R7702	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T		
	R7703	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T		
	R7704	nsp	WIRE , COPPER		C3A206		
	R7705	nsp	RES, M-OXIDE FILM(1W/1Kohm)		CRG1SANJ102RT		
	R7706,7707	00MGD05151160	RES, CARBON(1/5W,150ohm,J)		CRD20TJ151T		
	R7708	nsp	RES, M-OXIDE FILM(1W/1Kohm)		CRG1SANJ102RT		
	R7709,7710	00MGD05221160	RES, CARBON(1/5W,220ohm,J)		CRD20TJ221T		
	R7711	nsp	RES, M-OXIDE FILM(1W/3.3Kohm)		CRG1SANJ332RT		
	R7712	00MGD05333160	RES, CARBON(1/5W,33Kohm,J)		CRD20TJ333T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R7714	nsp	RES, M-OXIDE FILM(1W/56Kohm)		CRG1SANJ563RT		
	R7716,7717	00MGD05122160	RES, CARBON(1/5W,1.2Kohm,J)		CRD20TJ122T		
	R7718,7719	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT		
	R7720	nsp	RES, M-OXIDE FILM(2W/15Kohm)		CRG2SANJ153RT		
	R7721	nsp	RES, M-OXIDE FILM(1W/270ohm)		CRG1SANJ271RT		
	R7722,7723	00MGD05224160	RES, CARBON(1/5W,220Kohm,J)		CRD20TJ224T		
	R7724	00MGD05272160	RES, CARBON(1/5W,2.7Kohm,J)		CRD20TJ272T		
	R7725	00MGD05471160	RES, CARBON(1/5W,470ohm,J)		CRD20TJ471T		
	R7726	00MGD05561160	RES, CARBON(1/5W,560ohm,J)		CRD20TJ561T		
	R7729,7730	943124500240S	RES, M-OXIDE FILM(1W/22ohm)		CRG1SANJ220RT		
	R7731-7734	943124500050S	RES, M-OXIDE FILM(2W/0.47ohm)		CRG2SANJR47RT		
	R7735,7736	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7737	nsp	RES, CARBON(1/5W,680Kohm,J)		CRD20TJ684T		
△	R7738	252310006506S	PTC THERMISTORS, CHIP(115°C)		CRTPRF18BB471QB5RB		
	R7739	nsp	RES, CHIP(1608/5%/180Kohm)		CRJ10DJ184T		
	R7740	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R7741	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T		
	R7742	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T		
	R7743	nsp	RES, CHIP(3216/5%/47Kohm)		CRJ14CJ473T		
	R7744	nsp	RES, CHIP(3216/5%/22Kohm)		CRJ14CJ223T		
	R7745	00MGD05223160	RES, CARBON(1/5W,22Kohm,J)		CRD20TJ223T		
OTHERS PARTS GROUP							
	BK701	nsp	BRACKET , PCB		CMD1A569		
	BN704	nsp	WIRE ASS'Y (5P,2.0MM,250MM,UL1007#26)		CWB1B005250LC		
	CN461	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/13PIN		CJP13GI288ZY		
	CN701	nsp	LOCK-WAFER/STRAIGHT/2.5MM PITCH/9PIN		CJP09GI289ZY		
	CN702	nsp	LOCK-WAFER/STRAIGHT/2.5MM PITCH/7PIN		CJP07GI289ZY		
	CN703	nsp	LOCK-WAFER/STRAIGHT/2.5MM PITCH/3PIN		CJP03GI289ZY		
	CN715	nsp	WAFER (3PIN, AN, 2MM, JWT)		CJP03GB48ZW		
	CN725	nsp	WAFER (3PIN, AN, 2MM, JWT)		CJP03GB48ZW		
	CN735	nsp	WAFER (3PIN, AN, 2MM, JWT)		CJP03GB48ZW		
	CN745	nsp	WAFER (3PIN, AN, 2MM, JWT)		CJP03GB48ZW		
	CN755	nsp	WAFER (3PIN, AN, 2MM, JWT)		CJP03GB48ZW		
	CN765	nsp	WAFER (3PIN, AN, 2MM, JWT)		CJP03GB48ZW		
	CN775	nsp	WAFER (3PIN, AN, 2MM, JWT)		CJP03GB48ZW		
	GND71	nsp	PALTE , EARTH		HJT1A025		
	VR714	963161012400S	RES ,SEMI FIXED(1K/B-CURVE) ANGLE		CVN1RE102B01T		
	VR724	963161012400S	RES ,SEMI FIXED(1K/B-CURVE) ANGLE		CVN1RE102B01T		
	VR734	963161012400S	RES ,SEMI FIXED(1K/B-CURVE) ANGLE		CVN1RE102B01T		
	VR744	963161012400S	RES ,SEMI FIXED(1K/B-CURVE) ANGLE		CVN1RE102B01T		
	VR754	963161012400S	RES ,SEMI FIXED(1K/B-CURVE) ANGLE		CVN1RE102B01T		
	VR764	963161012400S	RES ,SEMI FIXED(1K/B-CURVE) ANGLE		CVN1RE102B01T		
	VR774	963161012400S	RES ,SEMI FIXED(1K/B-CURVE) ANGLE		CVN1RE102B01T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	ZD714	943202010080S	DIODE , ZENER ,1/2W, 5.1V		CVDZJ5.1BT		
	ZD715,716	90M-HD302440R	DIODE , ZENER ,1/2W, 4.7V		CVDZJ4.7BT		
	ZD724	943202010080S	DIODE , ZENER ,1/2W, 5.1V		CVDZJ5.1BT		
	ZD725,726	90M-HD302440R	DIODE , ZENER ,1/2W, 4.7V		CVDZJ4.7BT		
	ZD734	943202010080S	DIODE , ZENER ,1/2W, 5.1V		CVDZJ5.1BT		
	ZD735,736	90M-HD302440R	DIODE , ZENER ,1/2W, 4.7V		CVDZJ4.7BT		
	ZD744	943202010080S	DIODE , ZENER ,1/2W, 5.1V		CVDZJ5.1BT		
	ZD745,746	90M-HD302440R	DIODE , ZENER ,1/2W, 4.7V		CVDZJ4.7BT		
	ZD754	943202010080S	DIODE , ZENER ,1/2W, 5.1V		CVDZJ5.1BT		
	ZD755,756	90M-HD302440R	DIODE , ZENER ,1/2W, 4.7V		CVDZJ4.7BT		
	ZD764	943202010080S	DIODE , ZENER ,1/2W, 5.1V		CVDZJ5.1BT		
	ZD765,766	90M-HD302440R	DIODE , ZENER ,1/2W, 4.7V		CVDZJ4.7BT		
	ZD774	943202010080S	DIODE , ZENER ,1/2W, 5.1V		CVDZJ5.1BT		
	ZD775,776	90M-HD302440R	DIODE , ZENER ,1/2W, 4.7V		CVDZJ4.7BT		

SMPS PCB ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
△	IC901	231010091708S	I.C , OFF-LINE POWER SWITCH		CVITOP258MG		
△	IC902	963239010480S	I.C , PHOTOCOUPLER		CVIPC123Y22FZ0F		
	IC903	212050010508S	I.C , SHUNT REGULATOR(TO-92)		CVIKIA2431AP		
	Q9001-9003	00D9430154404	TR KTC3198Y		HVTKTC3198YT		
	D9001-9006	00D9630328409	DIODE , RECTIFIERS		CVD1N4007ST		
	D9008,9009	00D9630328409	DIODE , RECTIFIERS		CVD1N4007ST		
	D9010	00D9430182609	DIODE , SWITCHING		CVD1SS133MT		
	D9012	943209500030S	DIODE, LOW FORWARD SCHOTTKY RECTIFIER		CVDSRL3060P		
	D9013	963209010430S	DIODE, RECTIFIER (1000V)		CVDAP01CT		
CAPACITORS GROUP							
△	C9001-9003	963132011940S	CAP, CERAMIC(X1/Y2,0.01uF,AC250V)		CCKDKY103MFM		
	C9004	943134501590S	CAP, ELECT(200V/100uF),105'C	U	CCET200NHA101ES		
	C9004	963134010200S	CAP , ELECT (400V/100UF, 18X40, NHA)	N, K	CCET400NHA101ES		
	C9006-9008	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C9009	00D9430175108	CAP, ELECT(50V/10uF),105'C		CCEA1HNXA100TS		
	C9010	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C9012	963132010120S	CAP, CERAMIC(DC1KV/1000pF)		CCKDDEH102KCM		
	C9016	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C9017	00MOA47602520	CAP, ELECT(25V/47uF),105'C		CCEA1ENXA470TS		
	C9018	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C9019	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C9020-9022	963134010220S	CAP, ELECT(6.3V/5600uF)		CCEA0JNXA562ES		
	C9024	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
△	C9028	963132011930S	CAP, CERAMIC(X1/Y1,2200P,AC250V)		CCKDKX222MEM		
	C9029	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
RESISTORS GROUP							
	R9002,9003	00MGD05105160	RES, CARBON(1/5W,1Mohm,J)		CRD20TJ105T		
	R9004	00MGD05474160	RES, CARBON(1/5W,470Kohm,J)		CRD20TJ474T		
	R9005	00MNN05470610	RES, CHIP(1608/5%/47ohm)		CRJ10DJ470T		
	R9006	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R9007	00MNN05274610	RES, CHIP(1608/5%/270Kohm)		CRJ10DJ274T		
	R9008,9009	00MGD05225160	RES, CARBON(1/5W,2.2Mohm,J)	U	CRD20TJ225T		
	R9010	00MGD05105160	RES, CARBON(1/5W,1Mohm,J)	U	CRD20TJ105T		
	R9013	00MNN05100610	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T		
	R9014	00MNN05274610	RES, CHIP(1608/5%/270Kohm)	U	CRJ10DJ274T		
	R9014	00MNN05563610	RES, CHIP(1608/5%/56Kohm)	N, K	CRJ10DJ563T		
	R9015	00MNN05153610	RES, CHIP(1608/5%/15Kohm)		CRJ10DJ153T		
	R9016	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R9017	nsp	RES, CARBON(1/5W,6.8ohm,J)		CRD20TJ6R8T		
	R9018	00MGD05560160	RES, CARBON(1/5W,56ohm,J)		CRD20TJ560T		
	R9019	00MGD05332160	RES, CARBON(1/5W,3.3Kohm,J)		CRD20TJ332T		
	R9020	00MGD05562160	RES, CARBON(1/5W,5.6Kohm,J)		CRD20TJ562T		
	R9021	nsp	RES, CHIP(1608/1%/22Kohm)		CRJ10DF2202T		
	R9024	nsp	RES, CHIP(1608/1%/6.8Kohm)		CRJ10DF6801T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R9025	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R9026	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R9027	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T		
⚠	R9031-9034	943121500030S	RES, CHIP(2012/5%/2.2Mohm)		CRJ18AJ225T		
OTHERS PARTS GROUP							
	BK901	nsp	BRACKET , PCB(A)		CMD2A188		
	BK903	nsp	BRACKET , PCB		CMD1A629		
	BN903	nsp	WIRE ASS'Y LOCKING (5P,2.5MM,400MM,UL1569#22,105)		CWB7D0054003D001		
	CN902	nsp	WAFER, 2P, 7.92mm		CJP02GA89ZY		
⚠	CX901	943139500020S	CAP , POLYPROPYLENE FILM (0.1uF/275VAC)		CCQF2E104KZE-T		
⚠	CY901,902	963134011730S	CAP, CERAMIC(X1/Y1,470P,AC250V)		CCKDKX471KBM		
⚠	F9001,9002	nsp	HOLDER , FUSE		KJCF5S		
⚠	JK901	963641011240S	RECEPTACLE, (10A/AC250V)		CJJ8A015ZM		
⚠	LF902	963111010230S	LINE FILTER, 27uH	U	CLZ9Z126Z		
⚠	LF902	943111100410S	LINE FILTER, 50uH	N, K	CLZ9Z133Z		
⚠	RY901	963682010370S	RELAY,HL31-1AT-5H,DC5V,1C1P		CSL1C006ZE		
⚠	T9001	963102010240S	TRANS, SWITCHING(ST-4430A)		CLT9Z067ZE		
	ZD901	00D2760762958	DIODE , ZENER ,1/2W, 39V	U	CVDZJ39BT		
	ZD901	00MGD05105160	RES, CARBON(1/5W,1Mohm,J)	N, K	CRD20TJ105T		
	ZD902	00D2760762958	DIODE , ZENER ,1/2W, 39V	U	CVDZJ39BT		
	ZD902	00MGD05105160	RES, CARBON(1/5W,1Mohm,J)	N, K	CRD20TJ105T		
	ZD903	963202010440S	DIODE , ZENER ,1/2W, 22V	U	CVDZJ22BT		
	ZD903	00D2760762958	DIODE , ZENER ,1/2W, 39V	N, K	CVDZJ39BT		
	ZD904	nsp	WIRE , COPPER	U	C3A206		
	ZD904	00D2760762958	DIODE , ZENER ,1/2W, 39V	N, K	CVDZJ39BT		
	ZD905	nsp	WIRE , COPPER	U	C3A206		
	ZD905	00D2760762958	DIODE , ZENER ,1/2W, 39V	N, K	CVDZJ39BT		
	ZD906	nsp	WIRE , COPPER	U	C3A206		
	ZD906	00D2760762958	DIODE , ZENER ,1/2W, 39V	N, K	CVDZJ39BT		
	ZD907	nsp	WIRE , COPPER	U	C3A206		
	ZD907-910	00D2760762958	DIODE , ZENER ,1/2W, 39V	N, K	CVDZJ39BT		
	ZD911-918	963202010440S	DIODE , ZENER ,1/2W, 22V		CVDZJ22BT		
	ZD919	00D9600095607	DIODE , ZENER ,1/2W, 5.6V		CVDZJ5.6BT		
	ZD920	00D2760762958	DIODE , ZENER ,1/2W, 39V		CVDZJ39BT		

INPUT PCB ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
IC466	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)		CVIAZ4580MTR-E1	
IC471	235810045600S	I.C , 8CH VOLUME		CVIR2A15220FP	
IC481-483	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)		CVIAZ4580MTR-E1	
IC484	00D2623727904	I.C , 2CH VOLUME		CVINJW1194V	
IC486-488	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)		CVIAZ4580MTR-E1	
IC489	00D2623727904	I.C , 2CH VOLUME		CVINJW1194V	
D2397	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	
D2399	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T	
D4779,4780	943203003150S	DIODE , RECTIFIER, RADIAL		CVD1N4007SRT	
CAPACITORS GROUP					
C4603,4604	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA	
C4607,4608	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA	
C4613,4614	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA	
C4617,4618	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA	
C4627,4628	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA	
C4633,4634	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA	
C4637,4638	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA	
C4643,4644	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA	
C4647,4648	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA	
C4661,4662	nsp	CAP, CHIP(1608, 50V/100pF)	N, K	CCUS1H101JA	
C4663,4664	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C4665,4666	nsp	CAP, CHIP(1608, 50V/220pF)		CCUS1H221JA	
C4675,4676	00D9430173003	CAP, ELECT(10V/220uF)		CCEA1AH221T	
C4677,4678	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA	
C4679,4680	nsp	CAP, MYLAR(50V/0.022uF/J)		HCQI1H223JZT	
C4681,4682	nsp	CAP, MYLAR(50V/6800pF/J)		HCQI1H682JZT	
C4687-4690	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C4701,4702	00MOA10705020	CAP, ELECT(50V/100uF)		CCEA1HH101T	
C4705,4706	00D9430148708	CAP, ELECT(50V/47uF)		CCEA1HH470T	
C4710,4711	00D9430148708	CAP, ELECT(50V/47uF)		CCEA1HH470T	
C4713,4714	00D9430148708	CAP, ELECT(50V/47uF)		CCEA1HH470T	
C4727,4728	00MOA10705020	CAP, ELECT(50V/100uF)		CCEA1HH101T	
C4729,4730	943134500070S	CAP, ELECT(100V/10uF)		CCEA2AH100T	
C4761-4768	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C4773,4774	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C4781,4782	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C4801,4802	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C4803-4806	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC	
C4811,4812	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C4819,4820	nsp	CAP, CHIP(1608, 50V/68pF)		CCUS1H680JA	
C4823,4824	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA	
C4825-4828	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C4831,4832	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C4837,4838	nsp	CAP, CHIP(1608, 50V/3300pF)		CCUS1H332KC	
C4839,4840	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C4841,4842	943134010610S	CAP, ELECT(50V/4.7uF)		CCEA1HH4R7T	
C4843	943134501580S	CAP, ELECT(25V/33uF)		CCEA1EH330T	
C4844	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C4845	943134501580S	CAP, ELECT(25V/33uF)		CCEA1EH330T	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C4851,4852	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C4853-4856	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC		
	C4861,4862	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C4869,4870	nsp	CAP, CHIP(1608, 50V/68pF)		CCUS1H680JA		
	C4873,4874	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C4875-4878	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C4881,4882	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C4887,4888	nsp	CAP, CHIP(1608, 50V/3300pF)		CCUS1H332KC		
	C4889,4890	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC		
	C4891,4892	943134010610S	CAP, ELECT(50V/4.7uF)		CCEA1HH4R7T		
	C4893	943134501580S	CAP, ELECT(25V/33uF)		CCEA1EH330T		
	C4894	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C4895	943134501580S	CAP, ELECT(25V/33uF)		CCEA1EH330T		
RESISTORS GROUP							
	R2394	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R2395	00MNN05123610	RES, CHIP(1608/5%/12Kohm)		CRJ10DJ123T		
⚠	R2396	252310006537S	PTC THERMISTORS, CHIP(85°C)		CRTPRF18BE471QB5RB		
	R2397	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R2398	00MNN05123610	RES, CHIP(1608/5%/12Kohm)		CRJ10DJ123T		
⚠	R2399	252310006537S	PTC THERMISTORS, CHIP(85°C)		CRTPRF18BE471QB5RB		
	R4601,4602	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R4603,4604	nsp	RES, CHIP(1608/5%/820Kohm)		CRJ10DJ824T		
	R4605,4606	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R4607,4608	nsp	RES, CHIP(1608/5%/820Kohm)		CRJ10DJ824T		
	R4609,4610	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R4611,4612	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R4613,4614	nsp	RES, CHIP(1608/5%/820Kohm)		CRJ10DJ824T		
	R4615,4616	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R4617,4618	nsp	RES, CHIP(1608/5%/820Kohm)		CRJ10DJ824T		
	R4619,4620	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R4625,4626	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R4627,4628	nsp	RES, CHIP(1608/5%/820Kohm)		CRJ10DJ824T		
	R4629,4630	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R4631,4632	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R4633,4634	nsp	RES, CHIP(1608/5%/820Kohm)		CRJ10DJ824T		
	R4635,4636	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R4637,4638	nsp	RES, CHIP(1608/5%/820Kohm)		CRJ10DJ824T		
	R4639,4640	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R4641,4642	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R4643,4644	nsp	RES, CHIP(1608/5%/820Kohm)		CRJ10DJ824T		
	R4645,4646	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R4647,4648	nsp	RES, CHIP(1608/5%/820Kohm)		CRJ10DJ824T		
	R4649,4650	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R4661	nsp	RES, CHIP(1608/5%/0ohm)	U	CRJ10DJ0R0T		
	R4661	nsp	RES, CHIP(1608/5%/4.7Kohm)	N, K	CRJ10DJ472T		
	R4662	nsp	RES, CHIP(1608/5%/0ohm)	U	CRJ10DJ0R0T		
	R4662	nsp	RES, CHIP(1608/5%/4.7Kohm)	N, K	CRJ10DJ472T		
	R4663,4664	00MNN05391610	RES, CHIP(1608/5%/390ohm)		CRJ10DJ391T		
	R4665,4666	00MNN05683610	RES, CHIP(1608/5%/68Kohm)		CRJ10DJ683T		
	R4667,4668	00MNN05154610	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T		
	R4669,4670	00MNN05470610	RES, CHIP(1608/5%/47ohm)		CRJ10DJ470T		
	R4671,4672	90M-NN000630R	RES, CHIP(1608/5%/240ohm)		CRJ10DJ241T		

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R4679,4680	nsp	RES, CHIP(1608/5%/130Kohm)		CRJ10DJ134T	
R4681,4682	00MNN05113610	RES, CHIP(1608/5%/11Kohm)		CRJ10DJ113T	
R4683,4684	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T	
R4685,4686	00MNN05470610	RES, CHIP(1608/5%/47ohm)		CRJ10DJ470T	
R4687,4688	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	
R4701	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4704,4705	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4709	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4712,4713	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4716	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4719,4720	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4723,4724	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	
R4727-4730	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	
R4737,4738	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4757,4758	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4761-4768	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	
R4773,4774	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	
R4781,4782	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	
R4783,4784	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	
R4794-4799	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R4801,4802	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	
R4803,4804	00MNN05154610	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	
R4805,4806	00MNN05274610	RES, CHIP(1608/5%/270Kohm)		CRJ10DJ274T	
R4807,4808	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R4811,4812	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4813,4814	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	
R4815-4818	00MNN05683610	RES, CHIP(1608/5%/68Kohm)		CRJ10DJ683T	
R4819,4820	00MNN05333610	RES, CHIP(1608/5%/33Kohm)		CRJ10DJ333T	
R4821-4824	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R4825,4826	00MNN05470610	RES, CHIP(1608/5%/47ohm)		CRJ10DJ470T	
R4827,4828	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	
R4831,4832	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4833-4836	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	
R4841,4842	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R4851,4852	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	
R4853,4854	00MNN05154610	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	
R4855,4856	00MNN05274610	RES, CHIP(1608/5%/270Kohm)		CRJ10DJ274T	
R4857,4858	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R4861,4862	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4863,4864	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	
R4865-4868	00MNN05683610	RES, CHIP(1608/5%/68Kohm)		CRJ10DJ683T	
R4869,4870	00MNN05333610	RES, CHIP(1608/5%/33Kohm)		CRJ10DJ333T	
R4871-4874	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R4875,4876	00MNN05470610	RES, CHIP(1608/5%/47ohm)		CRJ10DJ470T	
R4877,4878	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	
R4881,4882	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4883-4886	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	
R4891,4892	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R4899	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
OTHERS PARTS GROUP					
BK469	nsp	EARTH , INPUT		CMC1A440	
BN203	nsp	WIRE ASS'Y (3P,2.0MM,100MM,UL1569#26,105)		CWB7B003100LC	
CN41B	nsp	PIN SOCKET (15P,1.25mm,ANGLE,B-TO-B)		CJP15HJ282Z	
CN42B	nsp	PIN SOCKET (27P,1.25mm,ANGLE,B-TO-B)		CJP27HJ282Z	
CN43B	nsp	PIN SOCKET (11P,1.25mm,ANGLE,B-TO-B)		CJP11HJ282Z	
CN44B	nsp	PIN SOCKET (17P,1.25mm,ANGLE,B-TO-B)		CJP17HJ282Z	
CN45B	nsp	PIN SOCKET (11P,1.25mm,ANGLE,B-TO-B)		CJP11HJ282Z	
JK461-463	943643102130S	JACK, 4P(W/R,W/R),SEPA-GND, GOLD		CJJ4P079Z	*
JK464	943643102140S	JACK, 4P(W/R,W/B),SEPA-GND, GOLD		CJJ4P080Z	*
JK465	943643102130S	JACK, 4P(W/R,W/R),SEPA-GND, GOLD		CJJ4P079Z	*
JW203	nsp	WIRE ASS'Y RING (1P,150MM,BLK,UL1569#20,CKM-T)		CWE7702150ST	
L4661,4662	00D9430193601	COIL, TOROIDAL	N, K	CLU9S004Z	

VIDEO PCB ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
IC511	235810046603S	IC , MULTI INPUT VIDEO		CVIAVDM2000	
IC513	943239010400S	I.C, REGULATOR(3.3V/TO-252)		CVINJM2845DL133	
IC521	963239008800S	I.C, RS232 (3.3V)		CVIILX3232DT	
IC522,523	00D2631286903	I.C , REGULATOR (12V)		CVIPQ120DNA1ZPH	
IC531	943239010400S	I.C, REGULATOR(3.3V/TO-252)		CVINJM2845DL133	
IC532	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)		CVIAZ4580MTR-E1	
Q5253	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C	
Q5311	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	
Q5312	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	
Q5313,5314	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	
Q5315	943214500020S	T.R,2SC3052		CVT2SC3052	
Q5316	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	
D5161	00D2760718902	DIODE, SCHOTTKY, 30V		CVDRB521S-30	
D5211	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	
D5212	943202000940S	DIODE , ZENER ,1/2W, 16V		CVDZJ16BT	
D5221	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	
D5222	943202000940S	DIODE , ZENER ,1/2W, 16V		CVDZJ16BT	
D5256	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	
D5257	90M-HI200020R	INFRARED L.E.D		BVDSIR34ST3F	
D5312	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP	
CAPACITORS GROUP					
C5107-5109	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C5121-5123	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC	
C5131-5133	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC	
C5151-5153	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC	
C5161	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5162	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC	
C5163	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5164	963134010980S	CAP, ELECT(16V/47uF)		CCEA1CH470T	
C5165,5166	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5171	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5174-5176	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5178-5181	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5182,5183	963134010980S	CAP, ELECT(16V/47uF)		CCEA1CH470T	
C5184-5192	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5193,5194	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C5211,5212	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C5213,5214	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5221,5222	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C5223,5224	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5231	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5233-5235	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5236	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C5237	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5238,5239	00MDD95330300	CAP, CHIP(1608, 50V/33pF)		CCUS1H330JA	
C5256,5257	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5312	nsp	CAP,CHIP(2012,10V/4.7uF)		CCUC1A475ZF	
C5313	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5315	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C5316	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5317	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C5320-5322	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5331,5332	nsp	CAP, CHIP(1608, 50V/470pF)		CCUS1H471JA	
C5333-5336	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C5371,5372	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C5373,5374	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
C5399	nsp	CAP, CHIP(1608, 50V/0.1uF)		CCUS1H104KC	
RESISTORS GROUP					
R5101-5103	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R5107	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5108	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R5109	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5110	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R5111	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5112	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R5121	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5123	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5125	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5131	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5133	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5135	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5151	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5153	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5155	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5171,5172	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R5173,5174	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R5175	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5176	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	
R5177	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5178	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	
R5179	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5180,5181	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	
R5183-5186	00MNN05100610	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T	
R5187-5189	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5190	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R5193,5194	nsp	RES, CHIP(1608/1%/75ohm)		CRJ10DF75R0T	
R5195-5198	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R5231-5234	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	
R5255	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R5256,5257	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	
R5258	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R5311,5312	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R5313	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R5314	00MNN05333610	RES, CHIP(1608/5%/33Kohm)		CRJ10DJ333T	
R5315	00MNN05473610	RES, CHIP(1608/5%/47Kohm)		CRJ10DJ473T	
R5316	nsp	RES, CHIP(1608/5%/18Kohm)		CRJ10DJ183T	
R5317	00MNN05470610	RES, CHIP(1608/5%/47ohm)		CRJ10DJ470T	
R5318	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R5331,5332	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	
R5333,5334	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	
R5335-5338	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R5341-5344	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	
R5352	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	
R5353,5354	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	
R5355	00MNN05470610	RES, CHIP(1608/5%/47ohm)		CRJ10DJ470T	
R5356-5358	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R5371,5372	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R5373,5374	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	
OTHERS PARTS GROUP					
BK503	nsp	BRACKET, SHIELD		CMD1A775	
CN51B	nsp	PIN SOCKET (15P,1.25mm,ANGLE,B-TO-B)		CJP15HJ282Z	
CN52B	nsp	PIN SOCKET (11P,1.25mm,ANGLE,B-TO-B)		CJP11HJ282Z	
CN53B	nsp	PIN SOCKET (21P,1.25mm,ANGLE, B-TO-B)		CJP21HJ282Z	
JK511	943643102150S	JACK, 6P(Y/Y,Y/Y,Y/Y), GOLD		CJJ4R057Z	*
JK512,513	943643102160S	JACK, 6P(G/G,B/B,R/R), GOLD		CJJ4R055Z	*
JK521	943646100420S	JACK , 9P D-SUB FEMALE(RS-232C)		CJJ9W001Z	
JK522,523	643010086002S	JACK, STEREO (BLK MOLD)		CJJ2D008Z	
JK526	643010086002S	JACK, STEREO (BLK MOLD)		CJJ2D008Z	
JK531	90M-YT003120R	JACK , IN/OUT		CJJ4N036Z	
JK532	963643012080M	JACK , DIN-901B(9P)		CJS6V001Y	

DIGITAL PCB ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
IC121	963236101220D	I.C , HDMI RX		CVIADV7850KBCZ-5	
IC122	963239002150S	I.C , OCTAL BUFFER/DRIVER		CVISN74LVC244APWR	
IC124	943239100760S	I.C , DE/MUX (8CH ANALOG,TSSOP-16P)		CVITC74VHC4051AFT	
IC151	963236101310S	I.C ADV8003KBCZ-8C (WITH HDMI TX)		CVIADV8003KBCZ8C_K	
IC152,153	nsp	I.C , DDR2 SDRAM(512M,FBGA-84P)		CVIK4T51163QJ-BCE7	
IC155	943248101280S	I.C, OSD Serial Flash(SR7007/U1B)	U, N	CVIANAM1714AV	*
IC155	943248101290S	I.C, OSD Serial Flash(SR7007/K1B)	K	CVIANAM1716AV	*
IC156	943239010400S	I.C, REGULATOR(1.8V/TO-252)		CVINJM2845DL118	
IC201	943243101170S	I.C ,MAIN MCU(SR7007/U/N)	U, N	CVIANAM1708AV	*
IC201	943243101180S	I.C ,MAIN MCU(SR7007/K1B)	K	CVIANAM1710AV	*
IC202	943239100720S	I.C , EEPROM(256KBIT,SOP-8P)		CVIR1EX24256BSAS0A	
IC231	943243101190S	I.C ,SUB MCU(SR7007 ALL)		CVIANAM1711AV	
IC241	00D2623448908	I.C , 3STATE QUAD BUFFER		CVITC74VHC125FT	
IC301-303	nsp	I.C , DC-DC CONVERTER (3A, QFN T&R-38P)		CVIEX3AV	
IC305-307	nsp	I.C , DC-DC CONVERTER (3A, QFN T&R-38P)		CVIEX3AV	
IC308	943239100730S	I.C , SYSTEM RESET(4.8V , SOT-25A)		CVIPST8448NR	
IC309,310	943239010400S	I.C, REGULATOR(3.3V/TO-252)		CVINJM2845DL133	
IC320	943239100710S	I.C , CURRENT LIMITE(1.5A,UDFN-6P)		CVINCP380HMU15AATBG	
IC321	943239100690S	I.C , 2CH DAC(32BIT,384KHZ,TSSOP-20P)		CVIPCM5100PWR	
IC322	943239100700S	I.C , Ethernet Transceiver(QFN-24P)		CVILAN8720ACPTR	
IC323	00D2623711004	I.C, VIDEO ENCODER		CVISAA7121H/V2.518	
IC326	23671011050AS	I.C , IPOD AUTHENTICATION FROM D&M		CVI23671011050AS_DM	
IC327	943239010400S	I.C, REGULATOR(3.3V/TO-252)		CVINJM2845DL133	
IC390	nsp	I.C , Network Media processor(LFBGA-320P)		CVIDM860A	
IC392,393	963246100740D	I.C , SDRAM(256M,8BIT,TSOP-54P)		CVIA3V56S30FTP-G6	
IC394	nsp	I.C , NETWORK&USB(SR7007/U1B)	U	CVIANAM1717AV	
IC394	nsp	I.C , NETWORK&USB(SR7007/N1B)	N	CVIANAM1718AV	
IC394	nsp	I.C , NETWORK&USB(SR7007/K1B)	K	CVIANAM1719AV	
IC394	nsp	I.C, 1G NAND FLASH(48P-TSOP1)		CVIH27U1G8F2BTR-BC	
IC401	00D2623077900	IC , HEX INVERTER		HVITC74VHC04FT	
IC403	00MHC10418030	I.C , DIR		CVILC89057WVF4AE	
IC406	943243101090S	I.C , PLD(SR7007)		CVIANAM1699AV	*
IC407	236810083506S	I.C , CLOCK JITTER		CVICS210010-CZZR	
IC408	nsp	I.C , DSP SHARC(LQFP-176P/400M/3019)		CVIADSP21487KSWZ4B19	
IC409	943246012690S	I.C , 64M SDRAM		CVIW9864G6JH-6	*
IC410	943248101300S	I.C , FLASH(for DSP SR7007 ALL)		CVIANAM1712AV	
IC441	236810073509S	I.C, DAC(8CH 192kHz 24-Bit)		CVIAK4358VQ	
IC442,443	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)		CVIAZ4580MTR-E1	
IC445	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)		CVIAZ4580MTR-E1	
IC447	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)		CVIAZ4580MTR-E1	
IC451	236810086505S	I.C , ADC(96kHz 24-Bit)		CVIAK5358BET	
IC501	nsp	I.C , HDMI PORT PROCESSOR		CVISII9575CTUC	
NOTE : When update Firmware, please confirm a last version in SDI. Use the service board after updating it.					
Q1201-1203	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C	
Q1502	90M-HY200050R	F.E.T (NEC)		CVTUPA672T	
Q1508	943214500020S	T.R,2SC3052		CVT2SC3052	
Q2301	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C	
Q2302,2303	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C	
Q2304,2305	943214500020S	T.R,2SC3052		CVT2SC3052	
Q2306	943214500030S	T.R , MUTE		CVTINC2001AC1	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	Q2401	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q2402	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1		
	Q2403,2404	943214500020S	T.R,2SC3052		CVT2SC3052		
	Q2405	963212500030S	T.R, ISA1530AC1		CVTISA1530AC1		
	Q2406-2408	943214500020S	T.R,2SC3052		CVT2SC3052		
	Q2411	943214500020S	T.R,2SC3052		CVT2SC3052		
	Q2414,2415	943214500020S	T.R,2SC3052		CVT2SC3052		
	Q2418	943214500020S	T.R,2SC3052		CVT2SC3052		
	Q3001,3002	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111		
	Q3004	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111		
	Q3005	00D2710326904	T.R,2SA1954		CVT2SA1954		
	Q3006,3007	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q3008	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q3009	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q3012	00D2710326904	T.R,2SA1954		CVT2SA1954		
	Q3013	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q3015	00D2710326904	T.R,2SA1954		CVT2SA1954		
	Q3016	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q3017	00D2710326904	T.R,2SA1954		CVT2SA1954		
	Q3018	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q3019	00D2710326904	T.R,2SA1954		CVT2SA1954		
	Q3020	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q3031	00D2710326904	T.R,2SA1954		CVT2SA1954		
	Q3032	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q3033	00D2710326904	T.R,2SA1954		CVT2SA1954		
	Q3034	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q3035	943214500020S	T.R,2SC3052		CVT2SC3052		
	Q3038	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q3039	943229500020S	MOSFET,TPC6111(P-CH,U-MOSV)		CVTTPC6111		
	Q3900	943215500020S	T.R,RT1P141C(10K-10K)		CVTRT1P141C		
	Q3901	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	Q4001	943216500020S	T.R,RT1N141C(10K-10K)		CVTRT1N141C		
	D1201	00D2760718902	DIODE, SCHOTTKY, 30V		CVDRB521S-30		
	D1202-1204	943251100080S	ESD SUPPRESSOR (ASQS 12U 02 0R2, 0.2pF/12V 1005)		CLZ9Z120Z		
	D1501	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP		
	D1610-1612	943251100080S	ESD SUPPRESSOR (ASQS 12U 02 0R2, 0.2pF/12V 1005)		CLZ9Z120Z		
	D1622-1624	943251100080S	ESD SUPPRESSOR (ASQS 12U 02 0R2, 0.2pF/12V 1005)		CLZ9Z120Z		
	D2301	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP		
	D3001,3002	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP		
	D3301,3302	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T		
CAPACITORS GROUP							
	C1203-1211	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C1212	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1215	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1216,1217	nsp	CAP, CHIP(1608, 50V/12pF)		CCUS1H120JA		
	C1223	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1224	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1225	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C1226	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1227	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1228	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1229	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1230	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1231	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1232	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1233	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1234	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1235	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1238	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1239	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1242	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1243	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1244	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1245	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1246,1247	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1249	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1250	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1251	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1252	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1253	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1254	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1255	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1256	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1257	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1258	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1259	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1260	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1261	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1262	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1263	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1264	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1265	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1266	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1267	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1268	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1269	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1270	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1271	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1273	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1274	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1276	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1277	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1278	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1279	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1280	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1281	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1282	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1283	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1284	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1285	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1286	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C1287	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1292	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1293	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1294	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1295-1303	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1304	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C1305	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC		
	C1306	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1310	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1315-1326	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C1327	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C1328	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1329	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C1330	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1331	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1334	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1335	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1336	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1337	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C1352	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1361	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1362	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1363	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1364	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1365	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1367	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1368	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1369	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1370	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1371	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1372	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1373	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1374	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1375	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1376	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1377	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1379	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1380	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1381	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1382	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1383	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1384	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1385	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1386	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1387	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1388	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1392	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1394	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1395	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1396	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1397	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1398	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C1399	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1400	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1401	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1402	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1403	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1404	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1405	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1406	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1407	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1408	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1409	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1410	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1411	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1412	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1413	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1414	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1416	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1417	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1418	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1419	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1420	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1421	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1422	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1423	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1424	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1427	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1428	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1429	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1430	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1431	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1432	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1433	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1434	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1435	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1436	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1437	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1438	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1439	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1440	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1441	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1442	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1443	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1444	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1445	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1446	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1447	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1448	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1449	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1450	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1451	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1452	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1453	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1454	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C1455	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1456	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1457	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1458	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1459	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1460	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1462	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1463	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1464	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1466	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1502,1503	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1506,1507	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1508	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1510	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1511	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1512	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1514,1515	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1516	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1517	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1518	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1520,1521	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1522	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1524,1525	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1526	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1527	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1528	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1529	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1530	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1531	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1532	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1533	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1534	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1535	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1536	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1537	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1538	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1539	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1540	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1542,1543	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1544	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1545	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1546	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1547	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1548	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1549	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1550	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1551	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1552	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1553	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1554	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1555	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1556	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1557	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C1558	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1559	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1560	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1561	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1562	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1564	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1565	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1566	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1567,1568	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1571	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1572	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1573	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1574,1575	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1577	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1578	nsp	CAP, CHIP(1608, 16V/0.15uF)		CCUS1C154KC	
C1579	nsp	CAP, CHIP(1005, 25V/0.012uF)		CCUI1E123KC	
C1580	nsp	CAP, CHIP(1608, 16V/0.15uF)		CCUS1C154KC	
C1581	nsp	CAP, CHIP(1005, 25V/0.012uF)		CCUI1E123KC	
C1586-1588	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	
C1590,1591	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1592,1593	nsp	CAP, CHIP(1608, 50V/12pF)		CCUS1H120JA	
C1594-1625	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1626	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	
C1628	nsp	CAP, CHIP(1005, 50V/33pF)		CCUI1H330JA	
C1629	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC	
C1630,1631	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1632,1633	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC	
C1634	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1635	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC	
C1636,1637	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1640	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1641	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC	
C1645	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1646	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1647	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1648	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1649	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1650	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1651	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1652	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1653	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1655	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1657	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1658	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1659	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1663	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1670-1675	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	
C1677	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1678	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C1679	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1681	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC	
C1682	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C1685	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1686,1687	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1689	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1690	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1693	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C1694,1695	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C1697-1702	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C1704,1705	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C2012-2016	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C2017,2018	nsp	CAP, CHIP(1608, 50V/15pF)		CCUS1H150JA		
	C2019-2025	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C2301,2302	nsp	CAP, CHIP(1608, 50V/12pF)		CCUS1H120JA		
	C2303	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C2304	nsp	CAP, CHIP(1608, 10V/0.47uF)		CCUS1A474KC		
	C2310	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C2311	nsp	CAP, CHIP(1005, 50V/220pF)		CCUI1H221JA		
	C2312	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C2314-2316	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C2325,2326	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C2401	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C2404-2412	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C2908	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C2910-2917	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C2922-2925	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C2932-2943	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C3001,3002	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3003	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C3004	nsp	CAP, CHIP(2012, 10V/22uF)		CCUC1A226KC		
	C3007	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C3008	nsp	CAP, CHIP(1608, 50V/15pF)		CCUS1H150JA		
	C3009	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3010	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C3011,3012	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3013	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C3014	nsp	CAP, CHIP(2012, 10V/22uF)		CCUC1A226KC		
	C3017	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C3018	nsp	CAP, CHIP(1608, 50V/15pF)		CCUS1H150JA		
	C3020	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C3031,3032	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3033	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C3034	nsp	CAP, CHIP(2012, 10V/22uF)		CCUC1A226KC		
	C3037	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C3038	nsp	CAP, CHIP(1608, 50V/15pF)		CCUS1H150JA		
	C3041,3042	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3043	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C3044	nsp	CAP, CHIP(2012, 10V/22uF)		CCUC1A226KC		
	C3047	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C3048	nsp	CAP, CHIP(1608, 50V/15pF)		CCUS1H150JA		
	C3051,3052	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3053	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C3054	nsp	CAP, CHIP(2012, 10V/22uF)		CCUC1A226KC		
	C3057	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C3058	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C3059,3060	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3063	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C3064	nsp	CAP, CHIP(1608, 50V/10pF)		CCUS1H100JA		
	C3065	nsp	CAP, CHIP(2012, 10V/22uF)		CCUC1A226KC		
	C3068	nsp	CAP, CHIP(1005, 25V/0.022uF)		CCUI1E223KC		
	C3069	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3071,3072	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3075	943134500040S	CAP, CHIP ELECT(16V/100uF)		HCEC1CRV2101T		
	C3076	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3077	943134500050S	CAP, CHIP ELECT(16V/100uF)		HCEC1CRV2100T		
	C3078,3079	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3080	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC		
	C3081	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C3082	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC		
	C3083	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C3086	943134500030S	CAP, SMD ELECT(16V/470uF)		CCEC1CRV471T		
	C3087	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3089	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3091	943134500030S	CAP, SMD ELECT(16V/470uF)		CCEC1CRV471T		
	C3092	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3093	nsp	CAP, CHIP(1005, 25V/0.015uF)		CCUI1E153KC		
	C3094	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC		
	C3095,3096	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3099	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C3151	nsp	CAP, CHIP(1608, 50V/15pF)		CCUS1H150JA		
	C3152	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3153	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C3154,3155	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3156-3163	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C3202	nsp	CAP, CHIP(1005, 25V/0.022uF)		CCUI1E223KC		
	C3203,3204	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C3205,3206	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C3207,3208	nsp	CAP, CHIP(1005, 50V/15pF)		CCUI1H150JA		
	C3209	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C3213	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C3218	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C3222	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3223	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C3224,3225	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3229,3230	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3234	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C3243-3246	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3248,3249	nsp	CAP, CHIP(1005, 50V/1pF)		CCUI1H1R0CA		
	C3253	nsp	CAP, CHIP(1005, 50V/1000pF)	U	CCUI1H102KC		
	C3253	nsp	CAP, CHIP(1005, 50V/330pF)	N	CCUI1H331JA		
	C3253	nsp	CAP, CHIP(1005, 50V/330pF)	K	CCUI1H331JA		
	C3255	nsp	CAP, CHIP(1005, 50V/1000pF)	U	CCUI1H102KC		
	C3255	nsp	CAP, CHIP(1005, 50V/330pF)	N	CCUI1H331JA		
	C3255	nsp	CAP, CHIP(1005, 50V/330pF)	K	CCUI1H331JA		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C3257	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C3267	nsp	CAP, CHIP(1005, 50V/470pF)		CCUI1H471JA		
	C3268	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC		
	C3270-3272	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3273,3274	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC		
	C3301	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C3302	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3303	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C3304	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3306-3308	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3309	nsp	CAP, CHIP(1608, 6.3V/2.2uF)		CCUS0J225KC		
	C3310	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3311	nsp	CAP, CHIP(1608, 6.3V/2.2uF)		CCUS0J225KC		
	C3312	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3313	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C3314,3315	nsp	CAP, CHIP(1005, 50V/2200pF)		CCUI1H222KC		
	C3316	943134005160M	CAP, CHIP ELECT(6.3V/22uF)		HCEC0JRV2220T		
	C3900	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C3901,3902	nsp	CAP, CHIP(1608, 50V/10pF)		CCUS1H100JA		
	C3904-3907	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C3908-3918	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3923	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C3926-3929	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C3930-3939	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3944	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C3947	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C3952,3953	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C3954-3958	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3959-3963	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C3964,3965	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3966,3967	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C3968-3974	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C3975-3979	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C3980,3981	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C4003,4004	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C4005-4008	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C4009,4010	nsp	CAP, CHIP(1005, 25V/0.01uF)		CCUI1E103KC		
	C4012-4014	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C4015	nsp	CAP, CHIP(1005, 25V/0.022uF)		CCUI1E223KC		
	C4016,4017	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C4018	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C4020	nsp	CAP, CHIP(2012, 6.3V/10uF, X5R)		CCUC0J106KC		
	C4021	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C4022	nsp	CAP, CHIP(1608, 50V/12pF)		CCUS1H120JA		
	C4024-4026	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C4033	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C4034	nsp	CAP, CHIP(1608, 50V/12pF)		CCUS1H120JA		
	C4049-4051	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C4052	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C4053,4054	nsp	CAP, CHIP(1005, 50V/100pF)		CCUI1H101JA		
	C4055-4060	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C4062	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C4063	nsp	CAP, CHIP(1005, 50V/100pF)		CCUI1H101JA		
	C4064-4066	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C4067,4068	nsp	CAP, CHIP(1608, 50V/18pF)		CCUS1H180JA		
	C4069-4103	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C4105-4114	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C4121-4169	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C4402	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C4404-4407	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C4408	943134500040S	CAP, CHIP ELECT(16V/100uF)		HCEC1CRV2101T		
	C4409,4410	nsp	CAP, CHIP(1608, 50V/680pF)		CCUS1H681JA		
	C4411,4412	nsp	CAP, CHIP(1608, 50V/3900pF)		CCUS1H392KC		
	C4423-4426	nsp	CAP, CHIP(1608, 50V/680pF)		CCUS1H681JA		
	C4429,4430	943134500040S	CAP, CHIP ELECT(16V/100uF)		HCEC1CRV2101T		
	C4431,4432	nsp	CAP, CHIP(1608, 50V/3900pF)		CCUS1H392KC		
	C4443-4446	nsp	CAP, CHIP(1608, 50V/680pF)		CCUS1H681JA		
	C4451,4452	nsp	CAP, CHIP(1608, 50V/3900pF)		CCUS1H392KC		
	C4463-4466	nsp	CAP, CHIP(1608, 50V/470pF)		CCUS1H471JA		
	C4471,4472	nsp	CAP, CHIP(1608, 50V/3900pF)		CCUS1H392KC		
	C4483-4486	nsp	CAP, CHIP(1608, 50V/680pF)		CCUS1H681JA		
	C4491,4492	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C4493,4494	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C4497-4499	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C4505,4506	nsp	CAP, CHIP(1608, 50V/4700pF)		CCUS1H472KC		
	C4507,4508	943134500050S	CAP, CHIP ELECT(16V/10uF)		HCEC1CRV2100T		
	C4511,4512	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC		
	C4513,4514	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C4516	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C4521-4528	nsp	CAP, CHIP(1608, 50V/680pF)		CCUS1H681JA		
	C4537,4538	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C4540-4542	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C4544	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C4581	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C4583-4591	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C4593	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C5002	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC		
	C5004	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC		
	C5006	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC		
	C5008	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC		
	C5010	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC		
	C5012	nsp	CAP, CHIP(1608, 10V/1uF)		CCUS1A105KC		
	C5013	nsp	CAP, CHIP(1005, 50V/1000pF)		CCUI1H102KC		
	C5014,5015	nsp	CAP, CHIP(1608, 50V/12pF)		CCUS1H120JA		
	C5016	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C5025,5026	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC		
	C5028	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C5030	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		
	C5032	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC		

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
C5033,5034	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	
C5036	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5037,5038	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	
C5040	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5042	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5044	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5046	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5048	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5049,5050	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	
C5052	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5053,5054	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	
C5056	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5057,5058	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	
C5060	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5061,5062	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	
C5064	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5065,5066	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	
C5067	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5070	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5071-5074	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	
C5075	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5078	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5080	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5082	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5083-5086	nsp	CAP, CHIP(1608, 6.3V/4.7uF, MURATA GRM18)		CCUS0J475KC	
C5087	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
C5089	nsp	CAP, CHIP(1005, 16V/0.1uF)		CCUI1C104KC	
RESISTORS GROUP					
R1201	nsp	RES, CHIP(1005/5%/2.2Kohm)		CRJ06IJ222T	
R1202	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	
R1203-1205	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R1206	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R1207,1208	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R1209	nsp	RES, CHIP(1005/5%/2Kohm)		CRJ06IJ202T	
R1210,1211	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R1213	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R1218	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R1219,1220	nsp	RES, CHIP(1005/5%/10ohm)		CRJ06IJ100T	
R1221	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	
R1222	00MNN05151610	RES, CHIP(1608/5%/150ohm)		CRJ10DJ151T	
R1223	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	
R1224	00MNN05151610	RES, CHIP(1608/5%/150ohm)		CRJ10DJ151T	
R1225	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	
R1226	943124001530S	RES, CHIP(1608/1%/470ohm)		CRJ10DF4700T	
R1227	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R1229	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	
R1232	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R1234-1238	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	
R1239	00MNN05151610	RES, CHIP(1608/5%/150ohm)		CRJ10DJ151T	
R1240	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	
R1241	00MNN05151610	RES, CHIP(1608/5%/150ohm)		CRJ10DJ151T	
R1242	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	
R1243-1246	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T	
R1247	943129007280M	RES, CHIP(1608/5%/24ohm)		CRJ10DJ240T	
R1248	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R1249	943129007280M	RES, CHIP(1608/5%/24ohm)		CRJ10DJ240T	
R1250	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	
R1251	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R1252,1253	nsp	RES, CHIP(1608/5%/51ohm)		CRJ10DJ510T	
R1254	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	
R1255,1256	nsp	RES, CHIP(1005/5%/10ohm)		CRJ06IJ100T	
R1258,1259	nsp	RES, CHIP(1005/5%/2.2Kohm)		CRJ06IJ222T	
R1260	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R1261-1268	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R1269,1270	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	
R1271	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R1273-1277	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R1280	nsp	RES, CHIP(1005/5%/680ohm)		CRJ06IJ681T	
R1284	nsp	RES, CHIP(1005/5%/680ohm)		CRJ06IJ681T	
R1286-1293	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R1294-1299	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	
R1301,1302	90M-NP000010R	RES, CHIP(1005/5%/22ohm)		CRJ06IJ220T	
R1303-1308	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R1501,1502	nsp	RES, CHIP(1005/1%/1Kohm)		CRJ06IF1001T	
R1503,1504	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R1505	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R1506	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	
R1507	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R1509	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R1510-1512	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R1521	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R1523,1524	nsp	RES, CHIP(1608/1%/2.7Kohm)		CRJ10DF2701T	
R1532,1533	nsp	RES, CHIP(1608/1%/180ohm)		CRJ10DF1800T	
R1536	943124001530S	RES, CHIP(1608/1%/470ohm)		CRJ10DF4700T	
R1538	943124001530S	RES, CHIP(1608/1%/470ohm)		CRJ10DF4700T	
R1540-1543	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R1544	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R1546	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R1547	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R1548-1551	nsp	RES, CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T	
R1552	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R1553	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R1554-1556	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	
R1557	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R1558-1561	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T	
R1566,1567	nsp	RES, CHIP(1005/5%/10ohm)		CRJ06IJ100T	
R1571	nsp	RES, CHIP(1005/5%/39ohm)		CRJ06IJ390T	
R1574	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R1575,1576	nsp	RES, CHIP(1005/1%/1Kohm)		CRJ06IF1001T	
R1580	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R1589,1590	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R1604	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R1606	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	
R1607	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R1611	00MNN05222610	RES, CHIP(1608/5%/2.2Kohm)		CRJ10DJ222T	
R1612	nsp	RES, CHIP(1608/5%/1.3Kohm)		CRJ10DJ132T	
R1613,1614	nsp	RES, CHIP(1005/5%/56ohm)		CRJ06IJ560T	
R1618	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R1619	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R1622	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R1635-1638	nsp	RES, CHIP(1608/1%/51ohm)		CRJ10DF51R0T	
R1639,1640	nsp	RES, CHIP(1608/5%/5.1ohm)		CRJ10DJ5R1T	
R1641-1668	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R1691-1694	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R1696	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R1700-1715	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R2005-2007	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	
R2008	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R2042-2044	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2048	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2060	nsp	RES, CHIP(1608/5%/0ohm)	U	CRJ10DJ0R0T	
R2060	nsp	RES, CHIP(1608/5%/10Kohm)	K	CRJ10DJ103T	
R2061	nsp	RES, CHIP(1608/5%/0ohm)	N	CRJ10DJ0R0T	
R2061	nsp	RES, CHIP(1608/5%/10Kohm)	K	CRJ10DJ103T	
R2095,2096	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2098	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2100-2102	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2103	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2105	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R2107	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R2111	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2112	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	
R2113	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R2114	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2115	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R2116,2117	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2119-2121	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2122	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R2123-2125	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2128-2132	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2136	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2138-2140	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2141	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	
R2142-2144	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2147	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2149	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2150	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R2152-2154	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2155,2156	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2301	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2302,2303	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R2304	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	
R2305	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2306,2307	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2308	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2309-2311	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2312-2314	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2316,2317	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2318-2321	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2322	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2324	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2325-2327	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2328	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2329	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2330-2334	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2338-2342	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2345	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R2346	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	
R2347	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2348	nsp	RES, CHIP(1005/5%/2.2Mohm)		CRJ06IJ225T	
R2349	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	
R2350	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	
R2351	nsp	RES, CHIP(1005/5%/220Kohm)		CRJ06IJ224T	
R2352	nsp	RES, CHIP(1005/5%/27Kohm)		CRJ06IJ273T	
R2353	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	
R2354	nsp	RES, CHIP(1005/5%/1.2Kohm)		CRJ06IJ122T	
R2356,2357	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2359	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	
R2360,2361	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2362,2363	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2364	nsp	RES, CHIP(1005/5%/150Kohm)		CRJ06IJ154T	
R2365	nsp	RES, CHIP(1005/5%/470Kohm)		CRJ06IJ474T	
R2366,2367	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2368	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R2370-2375	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2381	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R2382-2386	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2388-2395	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2401,2402	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R2403,2404	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R2407	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	
R2408	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	
R2409	nsp	RES, CHIP(1005/5%/33Kohm)		CRJ06IJ333T	
R2410	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	
R2411	nsp	RES, CHIP(1005/5%/15Kohm)		CRJ06IJ153T	
R2412	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	
R2413	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	
R2414	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	
R2415	nsp	RES, CHIP(1005/5%/470Kohm)		CRJ06IJ474T	
R2417	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	
R2419	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	
R2420	nsp	RES, CHIP(1005/5%/470Kohm)		CRJ06IJ474T	
R2422	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	
R2424	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R2427	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	
R2428	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	
R2429	nsp	RES, CHIP(1005/5%/470Kohm)		CRJ06IJ474T	
R2430	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R2431	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	
R2433	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R2434	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	
R2435	nsp	RES, CHIP(1005/5%/470Kohm)		CRJ06IJ474T	
R2436	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R2437	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	
R2439	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R2441,2442	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R2910	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R2912	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R3001	00MNN05100610	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T	
R3004	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R3008	nsp	RES, CHIP(1608/1%/120Kohm)		CRJ10DF1203T	
R3009	nsp	RES, CHIP(1608/5%/820Kohm)		CRJ10DJ824T	
R3010	nsp	RES, CHIP(1608/1%/150Kohm)		CRJ10DF1503T	
R3011	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	
R3014	nsp	RES, CHIP(1608/1%/120Kohm)		CRJ10DF1203T	
R3015	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	
R3016	nsp	RES, CHIP(1608/1%/150Kohm)		CRJ10DF1503T	
R3020	90M-NN000670R	RES, CHIP(1608/1%/270Kohm)		CRJ10DF2703T	
R3021	nsp	RES, CHIP(1608/5%/2.7Mohm)		CRJ10DJ275T	
R3026	nsp	RES, CHIP(1608/1%/470Kohm)		CRJ10DF4703T	
R3031	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	
R3035	nsp	RES, CHIP(1608/1%/150Kohm)		CRJ10DF1503T	
R3036	00MNN05100610	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T	
R3037	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R3040	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	
R3041	nsp	RES, CHIP(1608/1%/150Kohm)		CRJ10DF1503T	
R3042	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	
R3046	nsp	RES, CHIP(1608/1%/220Kohm)		CRJ10DF2203T	
R3047	nsp	RES, CHIP(1608/5%/2.2Mohm)		CRJ10DJ225T	
R3048	nsp	RES, CHIP(1608/1%/150Kohm)		CRJ10DF1503T	
R3053	00MNN05100610	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T	
R3054	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R3057	nsp	RES, CHIP(1608/1%/47Kohm)		CRJ10DF4702T	
R3058	nsp	RES, CHIP(1608/5%/680Kohm)		CRJ10DJ684T	
R3059	nsp	RES, CHIP(1608/1%/150Kohm)		CRJ10DF1503T	
R3060-3064	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3065	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	
R3066,3067	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3070	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3071	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	
R3072	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3073	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	
R3074	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3075	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	
R3076	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R3079	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3080	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R3081	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3082	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	
R3083	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3084	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R3085	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	
R3086	nsp	RES, CHIP(1005/5%/100Kohm)		CRJ06IJ104T	
R3088	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	
R3093	nsp	RES, CHIP(1005/5%/22Kohm)		CRJ06IJ223T	
R3094	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	
R3097	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3098	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T	
R3101,3102	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3202-3204	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3205	nsp	RES, CHIP(1005/5%/10ohm)		CRJ06IJ100T	
R3211	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R3212	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3216-3218	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ06IJ330T	
R3226	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3229,3230	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R3234	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3238	nsp	RES, CHIP(1005/5%/4.7ohm)		CRJ06IJ477T	
R3239,3240	nsp	RES, CHIP(1005/5%/10ohm)		CRJ06IJ100T	
R3242,3243	00MNN05033610	RES, CHIP(1608/5%/3.3ohm)		CRJ10DJ3R3T	
R3245	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3246	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T	
R3280-3286	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	
R3289	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	
R3291-3294	nsp	RES, CHIP(1608/5%/51ohm)		CRJ10DJ510T	
R3299	943124003370S	RES, CHIP(1608/1%/12Kohm)		CRJ10DF1202T	
R3300	nsp	RES, CHIP(1608/1%/100ohm)		CRJ10DF1000T	
R3303	90M-NN000600R	RES, CHIP(1608/1%/1.5Kohm)		CRJ10DF1501T	
R3305	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3306,3307	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T	
R3308	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3310	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R3313,3314	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3902-3904	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ06IJ330T	
R3905,3906	nsp	RES, CHIP(1005/5%/10Kohm*4)		CRJ06IJ103T	
R3907	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3908,3909	nsp	RES, CHIP(1005/5%/10Kohm*4)		CRJ06IJ103T	
R3910-3912	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R3913	nsp	RES, CHIP(1005/5%/10Kohm*4)		CRJ06IJ103T	
R3914	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	
R3915	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R3917	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R3919	nsp	RES, CHIP(1005/5%/10Kohm*4)		CRJ06IJ103T	
R3920	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	
R3921	nsp	RES, CHIP(1005/5%/1.5Kohm)		CRJ06IJ152T	
R3923	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R3927	nsp	RES, CHIP(1005/5%/2.7Kohm)		CRJ06IJ272T	
R3928	nsp	RES, CHIP(1005/5%/1.5Kohm)		CRJ06IJ152T	
R3929-3931	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R3934-3938	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R3939	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R3943	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R3944-3947	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R3950,3951	nsp	RES, CHIP(1005/5%/10ohm)		CRJ06IJ100T		
	R3953,3954	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R3955,3956	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	R3957-3959	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R3961-3969	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
	R3971	nsp	RES, CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T		
	R3972	nsp	RES, CHIP(1005/5%/1.2Kohm)		CRJ06IJ122T		
	R3973	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R3974	nsp	RES, CHIP(1005/5%/1.5Kohm)		CRJ06IJ152T		
	R3975	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R3976	nsp	RES, CHIP(1005/5%/12Kohm)		CRJ06IJ123T		
	R3984-3988	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R3991	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R3992	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R4001-4004	nsp	RES, CHIP(1005/5%/150ohm)		CRJ06IJ151T		
	R4005,4006	nsp	RES, CHIP(1005/5%/470ohm)		CRJ06IJ471T		
	R4011	nsp	RES, CHIP(1005/5%/330Kohm)		CRJ06IJ334T		
	R4012,4013	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R4014	nsp	RES, CHIP(1005/5%/330Kohm)		CRJ06IJ334T		
	R4027-4030	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R4032	nsp	RES, CHIP(1005/5%/220ohm)		CRJ06IJ221T		
	R4033	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R4034	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R4035	00MNN05821610	RES, CHIP(1608/5%/820ohm)		CRJ10DJ821T		
	R4036	nsp	RES, CHIP(1005/5%/3.3Kohm)		CRJ06IJ332T		
	R4037	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R4038	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R4045-4048	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R4051,4052	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R4053	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R4054	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R4055	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R4057	nsp	RES, CHIP(1005/5%/100ohm)		CRJ06IJ101T		
	R4058	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T		
	R4059,4060	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R4061	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R4062-4065	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R4066	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R4067	00MNN05391610	RES, CHIP(1608/5%/390ohm)		CRJ10DJ391T		
	R4068	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R4069,4070	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T		
	R4071	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R4073	nsp	RES, CHIP(1005/5%/47ohm)		CRJ06IJ470T		
	R4076	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R4078	nsp	RES, CHIP(1005/5%/10ohm)		CRJ06IJ100T		
	R4079	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R4080	nsp	RES, CHIP(1005/5%/10ohm)		CRJ06IJ100T		
	R4081	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T		
	R4082	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R4083-4091	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T		

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R4096	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R4097-4100	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R4113,4114	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T	
R4115,4116	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R4118	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R4120	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R4149,4150	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T	
R4151	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R4152	nsp	RES, CHIP(1005/5%/10Kohm)		CRJ06IJ103T	
R4155-4158	00MNN05330610	RES, CHIP(1608/5%/33ohm)		CRJ10DJ330T	
R4159	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R4402	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	
R4411-4414	00MNN05392610	RES, CHIP(1608/5%/3.9Kohm)		CRJ10DJ392T	
R4419-4422	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R4423-4426	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	
R4427,4428	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4431-4434	00MNN05392610	RES, CHIP(1608/5%/3.9Kohm)		CRJ10DJ392T	
R4436	00MNN05393610	RES, CHIP(1608/5%/39Kohm)		CRJ10DJ393T	
R4438	00MNN05393610	RES, CHIP(1608/5%/39Kohm)		CRJ10DJ393T	
R4439	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R4440	00MNN05123610	RES, CHIP(1608/5%/12Kohm)		CRJ10DJ123T	
R4441	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R4442	00MNN05123610	RES, CHIP(1608/5%/12Kohm)		CRJ10DJ123T	
R4443	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	
R4444	00MNN05181610	RES, CHIP(1608/5%/180ohm)		CRJ10DJ181T	
R4445	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	
R4446	00MNN05181610	RES, CHIP(1608/5%/180ohm)		CRJ10DJ181T	
R4447,4448	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4451-4454	00MNN05392610	RES, CHIP(1608/5%/3.9Kohm)		CRJ10DJ392T	
R4455-4458	00MNN05154610	RES, CHIP(1608/5%/150Kohm)		CRJ10DJ154T	
R4459-4462	00MNN05682610	RES, CHIP(1608/5%/6.8Kohm)		CRJ10DJ682T	
R4463-4466	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	
R4467,4468	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4471-4474	00MNN05392610	RES, CHIP(1608/5%/3.9Kohm)		CRJ10DJ392T	
R4479-4482	nsp	RES, CHIP(1608/5%/4.7Kohm)		CRJ10DJ472T	
R4483-4486	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	
R4487,4488	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R4501,4502	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R4505,4506	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	
R4515	nsp	RES, CHIP(1005/5%/33ohm)		CRJ06IJ330T	
R4516	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	
R5004,5005	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	
R5007	00MNN05100610	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T	
R5008	nsp	RES, CHIP(1005/5%/5.1Kohm)		CRJ06IJ512T	
R5009	nsp	RES, CHIP(1005/5%/1Kohm)		CRJ06IJ102T	
R5013,5014	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	
R5016	00MNN05100610	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T	
R5017	nsp	RES, CHIP(1005/5%/5.1Kohm)		CRJ06IJ512T	
R5024,5025	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T	
R5027	00MNN05100610	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T	
R5028	nsp	RES, CHIP(1005/5%/5.1Kohm)		CRJ06IJ512T	
R5034	00MNN05100610	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T	
R5035	nsp	RES, CHIP(1005/5%/5.1Kohm)		CRJ06IJ512T	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R5036,5037	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R5044,5045	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R5047	00MNN05100610	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T		
	R5048	nsp	RES, CHIP(1005/5%/5.1Kohm)		CRJ06IJ512T		
	R5054,5055	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R5057	00MNN05100610	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T		
	R5058	nsp	RES, CHIP(1005/5%/5.1Kohm)		CRJ06IJ512T		
	R5063	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R5065	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R5071	nsp	RES, CHIP(1608/5%/130Kohm)		CRJ10DJ134T		
	R5072	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R5081,5082	nsp	RES, CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T		
	R5083	nsp	RES, CHIP(1005/5%/47Kohm)		CRJ06IJ473T		
	R5084	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R5086	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R5091	00MNN05100610	RES, CHIP(1608/5%/10ohm)		CRJ10DJ100T		
	R5092,5093	nsp	RES, CHIP(1005/5%/1.8Kohm)		CRJ06IJ182T		
	R5111-5116	nsp	RES, CHIP(1005/5%/0ohm)		CRJ06IJ0R0T		
	R5117,5118	nsp	RES, CHIP(1005/5%/10ohm)		CRJ06IJ100T		
	R5119	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
	R5120	nsp	RES, CHIP(1005/5%/10ohm)		CRJ06IJ100T		
	R5121,5122	nsp	RES, CHIP(1005/5%/4.7Kohm)		CRJ06IJ472T		
OTHERS PARTS GROUP							
	BD401	nsp	FERRITE CHIP BEAD(2012/220R)		CLZ9R006Z		
	BK101-103	nsp	BRACKET , PCB		CMD1A569		
	CN121	nsp	WAFER, FFC, SMD(23P-1mm, STRAIGHT)		CJP23GA193ZY		
	CN201	nsp	WAFER, FFC, SMD(07P-1mm, STRAIGHT)		CJP07GA193ZY		
	CN203	nsp	WAFER , SMD (2MM PITCH)-3P		CJP03GA208ZY		
	CN21B	nsp	PIN SOCKET (15P,1.25mm,ANGLE,B-TO-B)		CJP15HJ282Z		
	CN24B	nsp	PIN SOCKET (27P,1.25mm,ANGLE,B-TO-B)		CJP27HJ282Z		
	CN25B	nsp	PIN SOCKET (17P,1.25mm,ANGLE,B-TO-B)		CJP17HJ282Z		
	CN26B	nsp	PIN SOCKET (11P,1.25mm,ANGLE,B-TO-B)		CJP11HJ282Z		
	CN27B	nsp	PIN SOCKET (19P,1.25mm,ANGLE, B-TO-B)		CJP19HJ282Z		
	CN28B	nsp	PIN SOCKET (11P,1.25mm,ANGLE,B-TO-B)		CJP11HJ282Z		
	CN321	nsp	WAFER , SMD (2MM PITCH)		CJP05GA208ZY		
	CN69B	nsp	WAFER, FFC, SMD(40P-1mm, STRAIGHT)		CJP40GA193ZY		
	CN704	nsp	WAFER , SMD (2MM PITCH)		CJP05GA208ZY		
	CN903	nsp	LOCK-WAFER/STRAIGHT/2.5MM PITCH/5PIN		CJP05GI289ZY		
	JK151,152	943643100040S	JACK, HDMI(KSI-TWI, W/ FLANGE)		CJJ9H014Z		
	JK401	90M-YT003480R	TERMINAL		CJJ4N023Z		
	JK402,403	943262100150S	MODULE , OPTICAL(RX 16MHz)		CJSJSR1124		
	JK501-507	943643100040S	JACK, HDMI(KSI-TWI, W/ FLANGE)		CJJ9H014Z		
	L1201-1213	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN1		
	L1501-1508	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z		
	L1510	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z		
	L1512	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z		

Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
L1514	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z		
L1518	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z		
L1521,1522	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z		
L2902-2934	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
L2936	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
L3001-3008	nsp	RES, CHIP(3216/5%/0ohm)		CRJ14CJ0R0T		
L3013-3018	nsp	RES, CHIP(3216/5%/0ohm)		CRJ14CJ0R0T		
L3019-3021	nsp	FERRITE CHIP BEAD(2012/220R)		CLZBLM21PG221SN1		
L3022	nsp	FERRITE CHIP BEAD(2012/120R)		CLZBLM21AG121SN1		
L3023-3034	nsp	RES, CHIP(3216/5%/0ohm)		CRJ14CJ0R0T		
L3200,3201	nsp	COIL, CHOKE CHIP(2012/90R)		CLZ9Z128Z		
L3205,3206	nsp	FERRITE CHIP BEAD(2012/220R)		CLZ9R006Z		
L3208	nsp	FERRITE CHIP BEAD(2012/220R)		CLZ9R006Z		
L3211	nsp	RES, CHIP(2012/5%/0ohm)		CRJ18AJ0R0T		
L3212	nsp	COIL, CHOKE CHIP(2012/180R)		CLZ9Z127Z		
L3213	nsp	RES, CHIP(2012/5%/0ohm)	U	CRJ18AJ0R0T		
L3213	943117003880S	INDUCTOR , FERRITE CHIP(1.5UH, 2012)	N, K	CLQ08E1R5KRZ		
L3214	nsp	RES, CHIP(2012/5%/0ohm)	U	CRJ18AJ0R0T		
L3214	943117003880S	INDUCTOR , FERRITE CHIP(1.5UH, 2012)	N, K	CLQ08E1R5KRZ		
L3216	nsp	RES, CHIP(2012/5%/0ohm)		CRJ18AJ0R0T		
L3217,3218	nsp	FERRITE CHIP BEAD(2012/220R)		CLZ9R006Z		
L3900-3902	nsp	FERRITE CHIP BEAD(2012/220R)		CLZ9R006Z		
L5001-5012	nsp	FERRITE CHIP BEAD(1608/60R)		CLZ9R005Z		
RN140,141	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
RN142-145	nsp	RES, CHIP(1005/5%/4.7Kohm*4)		CRJ064IJ472T		
RN151-156	nsp	RES, CHIP(1005/5%/47ohm*4)		CRJ064IJ470T		
RN158-166	nsp	RES, CHIP(1005/5%/47ohm*4)		CRJ064IJ470T		
RN201	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
RN401-403	nsp	RES, CHIP(1005/5%/33ohm*2)		CRJ062IJ330T		
RN404	nsp	RES, CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T		
RN411-419	nsp	RES, CHIP(1005/5%/100ohm*4)		CRJ064IJ101T		
RN420-423	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
RN424,425	nsp	RES, CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T		
RN426,427	nsp	RES, CHIP(1005/5%/10ohm*4)		CRJ064IJ100T		
RN429-432	nsp	RES, CHIP(1005/5%/10ohm*4)		CRJ064IJ100T		
RN433	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
RN440	nsp	RES, CHIP(1005/5%/33ohm*4)		CRJ064IJ330T		
RN441	nsp	RES, CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T		
RN501-507	nsp	RES, CHIP(1005/5%/10Kohm*4)		CRJ064IJ103T		
RY151	943682100250S	RELAY,BC1-5S-R,DC5V,2C2P,SMD		CSL4C012ZE		
X1201	943141100720S	X-TAL, SMD 3.2X2.5, 27.000MHz, 10PF		COX27000I100ST		
X1501	943141100720S	X-TAL, SMD 3.2X2.5, 27.000MHz, 10PF		COX27000I100ST		
X2001	943141100610S	X-TAL, SMD 3.2X2.5, 12.000MHz, 10PF		COX12000I100ST		
X2301	943141100730S	X-TAL, SMD 3.2X2.5, 16.000MHz, 9PF		COX16000I090ST		
X3900	943141100640S	X-TAL, SMD 3.2X2.5, 24.000MHz, 8PF		COX24000I080ST		
X4001	943141100620S	X-TAL, SMD 3.2X2.5, 24.576MHz, 12PF		COX24576I120ST		
X4002	943141100740S	X-TAL, SMD 3.2X2.5, 25.000MHz, 12PF		COX25000I120ST		
X5001	943141100720S	X-TAL, SMD 3.2X2.5, 27.000MHz, 10PF		COX27000I100ST		

SPK PCB ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
D7900,7901	90M-HZ200190R	DIODE, SWITCHING, SMD TYPE		HVDRLS4148SR	
D7902	943203500500M	DIODE, BRIDGE.(600V/25A)		CVDGBJ2506	
D7903-7906	90M-HZ200190R	DIODE, SWITCHING, SMD TYPE		HVDRLS4148SR	
D7908	90M-HZ200190R	DIODE, SWITCHING, SMD TYPE		HVDRLS4148SR	
D7927	943202005380M	DIODEZENER3.0VZJ3.0BT		CVDZJ3.0BT	
D7928	00D9430182609	DIODE , SWITCHING		CVD1SS133MT	
D9311,9312	00D9630328409	DIODE , RECTIFIERS		CVD1N4007ST	
D9315	00D9630328409	DIODE , RECTIFIERS		CVD1N4007ST	
D9318,9319	00D9630328409	DIODE , RECTIFIERS		CVD1N4007ST	
D9322	00D9630328409	DIODE , RECTIFIERS		CVD1N4007ST	
D9325	00D9630328409	DIODE , RECTIFIERS		CVD1N4007ST	
D9327	00D9630328409	DIODE , RECTIFIERS		CVD1N4007ST	
D9330	00D9630328409	DIODE , RECTIFIERS		CVD1N4007ST	
D9332	00D9630328409	DIODE , RECTIFIERS		CVD1N4007ST	
CAPACITORS GROUP					
C7801	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	
C7805	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	
C7812	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	
C7816	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	
C7822	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	
C7826	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	
C7832	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	
C7836	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	
C7842	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	
C7846	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	
C7852	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	
C7856	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	
C7862	nsp	CAP, MYLAR(50V/0.047uF/J)		HCQI1H473JZT	
C7866	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	
C7876	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	
C7879	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	
C7886	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	
C7889	nsp	CAP, CHIP(1608, 50V/1000pF)		CCUS1H102KC	
C7891-7900	nsp	CAP, CHIP(2012, 250V/0.01uF)		CCUC2E103KC	
C7901,7902	nsp	CAP, METAL PE FILM(250V/0.1uF)		KCME2E104JP04T	
C7903,7904	nsp	CAP, CHIP(1608, 50V/680pF)		CCUS1H681JA	
C7905	943134010470S	CAP, ELECT(50V/0.1uF)		CCEA1HH0R1T	
C7906	nsp	CAP, CHIP(2012, 250V/0.01uF)		CCUC2E103KC	
C7907,7908	963134010180S	CAP , ELECT(71V/12000uF)		CCET71VLKS123N	
C7927	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T	
C9317-9319	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	
C9321-9323	nsp	CAP, MYLAR(50V/0.1uF/J)		HCQI1H104JZT	
RESISTORS GROUP					
R7801	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	
R7802	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	
R7809,7810	nsp	RES, M-OXIDE FILM(2W/470ohm)		CRG2SANJ471RT	
R7811	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R7812	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	
R7821	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	
R7822	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	
R7831	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	
R7832	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	
R7841	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	
R7842	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	
R7851	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	
R7852	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	
R7861	nsp	RES, M-OXIDE FILM(1W/10ohm)		CRG1SANJ100RT	
R7862	nsp	RES, M-OXIDE FILM(2W/10ohm)		CRG2SANJ100RT	
R7921-7926	nsp	RES, M-OXIDE FILM(1W/2.2Kohm)		CRG1SANJ222RT	
R7927	NSP	RES, CARBON(1/4W,10Kohm,J)		CRD25TJ103T	
R7934	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R7935-7940	00MGD05330160	RES , CARBON		CRD20TJ330T	
OTHERS PARTS GROUP					
BK701-703	nsp	PLATE, MAIN PCB		CMC2A424	
BK931	nsp	BRACKET , PCB		CMD1A629	
BN701	nsp	WIRE ASS'Y , (9P, 250mm, 2.5mm PITCH, UL1569, #20)		CWB7E0092503D	
BN702	nsp	WIRE ASS'Y LOCKING (7P,2.5MM,350MM,UL1569#20,105)		CWB7E0073503D	
BN703	nsp	WIRE ASS'Y LOCKING (3P,2.5MM,220MM,UL1569#24,105)		CWB7C0032203D	
BN782	nsp	WIRE ASS'Y LOCKING (7P,2.5MM,120MM,UL1007#20)		CWB1E0071203D	
BN932A,933	nsp	PIN SOCKET (11P,1.25mm,ANGLE,B-TO-B)		CJP11HJ282Z	
CN640	nsp	LOCK-WAFER/STRAIGHT/2MM PITCH/13PIN		CJP13GI288ZY	
CN782	nsp	LOCK-WAFER/STRAIGHT/2.5MM PITCH/7PIN		CJP07GI289ZY	
CN783	nsp	WAFER,YW396-03AB(7.92mm)		CJP03GA89ZY	
CN940	nsp	LOCK-WAFER/STRAIGHT/2.5MM PITCH/5PIN		CJP05GI289ZY	
CN941	nsp	LOCK-WAFER/STRAIGHT/2.5MM PITCH/3PIN		CJP03GI289ZY	
F9301-9305	nsp	HOLDER , FUSE		KJCF5S	
L7901	943115010260S	COIL , SPEAKER(0.5uH)		CLEY0R5KAK	
L7911	943115010260S	COIL , SPEAKER(0.5uH)		CLEY0R5KAK	
L7921	943115010260S	COIL , SPEAKER(0.5uH)		CLEY0R5KAK	
L7931	943115010260S	COIL , SPEAKER(0.5uH)		CLEY0R5KAK	
L7941	943115010260S	COIL , SPEAKER(0.5uH)		CLEY0R5KAK	
L7951	943115010260S	COIL , SPEAKER(0.5uH)		CLEY0R5KAK	
L7961	943115010260S	COIL , SPEAKER(0.5uH)		CLEY0R5KAK	
RY781-784	682010023006S	RELAY,HL3-2A-12S,DC12V,2C1P		CSL3A021ZU	
RY786,787	682010023006S	RELAY,HL3-2A-12S,DC12V,2C1P		CSL3A021ZU	
RY788	943682000810S	RELAY,BC3-12H,DC12V,2C2P		CSL4A016ZU	
JK781	943643102170S	6 SCREW SPK (RRR/BBB,GOLD,94V-0,Transparence)		CJJ5R019Z	*

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	JK782	943643102180S	8P SCREW SPK (RRRR/BBBB,GOLD,94V-0,Transparence)		CJJ5Q024Z		*
	JK783	943643102190S	4P SCREW SPK (RR/BB,GOLD,94V-0,Transparence)		CJJ5P035Z		*
	JK784,785	943643102200S	2P, SCREW SPK(RB,GOLD,94V-0,Transparence)		CJJ5N020Z		*
	JW703A	nsp	WIRE ASS'Y (1P,200MM,BLK,UL1015#20,CKM-T)		CWE7102200TT		
	JW704A	nsp	WIRE ASS'Y (1P,220MM,BLK,UL1015#20,CKM-T)		CWE7102220TT		
	JW705A	nsp	WIRE ASS'Y (1P,220MM,RED,UL1015#20,CKM-T)		CWE7112220TT		

PREOUT PCB ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
IC561,562	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)		CVIAZ4580MTR-E1	
IC571,572	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)		CVIAZ4580MTR-E1	
IC581,582	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)		CVIAZ4580MTR-E1	
IC591,592	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)		CVIAZ4580MTR-E1	
IC931,932	943231010390S	I.C,REGULATOR(+5V,T0220IS)		CVIKIA7805BPI	
IC934	943231010390S	I.C,REGULATOR(+5V,T0220IS)		CVIKIA7805BPI	
IC935	00D2631099006	I.C,REGULATOR(-5V,T0220IS)		CVIKIA7905PI	
IC936	231010094103S	I.C , REGULATOR(8V ,1A /TO-220F-4)		CVINJM2388F08	
IC937	00D2631251006	I.C,REGULATOR(-8V,T0220IS)		CVIKIA7908PI	
Q5621	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL	
Q5622,5623	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL	
Q5624	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL	
Q5629	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL	
Q5630	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL	
Q5671	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL	
Q5672,5673	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL	
Q5674	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL	
Q5679	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL	
Q5680	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL	
Q5721	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL	
Q5722,5723	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL	
Q5724	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL	
Q5729	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL	
Q5730	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL	
Q5771	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL	
Q5772,5773	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL	
Q5774	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL	
Q5779	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL	
Q5780	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL	
Q5821	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL	
Q5822,5823	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL	
Q5824	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	Q5829	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL		
	Q5830	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL		
	Q5871	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL		
	Q5872,5873	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL		
	Q5874	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL		
	Q5879	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL		
	Q5880	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL		
	Q5921	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL		
	Q5922,5923	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL		
	Q5924	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL		
	Q5929	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL		
	Q5930	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL		
	Q5971	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL		
	Q5972,5973	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL		
	Q5974	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL		
	Q5979	00MHX800081AY	T.R , 2SC3324 (NPN, TO-236, LOW NOISE, TOSHIBA)		CVT2SC3324BL		
	Q5980	00MHX600081AY	T.R , 2SA1312 (PNP, TO-236, LOW NOISE, TOSHIBA)		CVT2SA1312BL		
	Q6713	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C		
	Q6714	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q6715	943214500030S	T.R , MUTE		CVTINC2001AC1		
	Q6717,6718	943214500030S	T.R , MUTE		CVTINC2001AC1		
	Q6720	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C		
	Q6726	943214500030S	T.R , MUTE		CVTINC2001AC1		
	Q6735-6738	943214500030S	T.R , MUTE		CVTINC2001AC1		
	Q6763	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C		
	Q6764	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q6765-6768	943214500030S	T.R , MUTE		CVTINC2001AC1		
	Q6769	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C		
	Q6783	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C		
	Q6784	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q6785-6788	943214500030S	T.R , MUTE		CVTINC2001AC1		
	Q6790	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C		
	Q6810	943214500030S	T.R , MUTE		CVTINC2001AC1		
	Q6812	943214500030S	T.R , MUTE		CVTINC2001AC1		
	Q6839	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C		
	Q6840	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		
	Q6843,6844	943214500030S	T.R , MUTE		CVTINC2001AC1		
	Q6846	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C		
	Q6869	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C		
	Q6870	943216500050S	T.R,RT1N441C(47K-47K)		CVTRT1N441C		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	Q6873,6874	943214500030S	T.R , MUTE		CVTINC2001AC1		
	Q6876	943215500030S	T.R,RT1P441C(47K-47K)		CVTRT1P441C		
	Q6952	943213500160S	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C		
	Q6955	943213500160S	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C		
	Q6959	943213500160S	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C		
	Q6971	943213500160S	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C		
	Q6974	943213500160S	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C		
	Q6976	943213500160S	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C		
	Q6978	943213500160S	T.R,RT1N237C(2.2K-47K)		CVTRT1N237C		
	D5623,5624	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP		
	D5673,5674	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP		
	D5723,5724	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP		
	D5773,5774	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP		
	D5823,5824	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP		
	D5873,5874	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP		
	D5923,5924	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP		
	D5973,5974	201310001503S	DIODE, ULTRA-HIGH SPEED		CVDKDS160RTKP		
	D6845-6847	00D9630328409	DIODE , RECTIFIERS		CVD1N4007ST		
	D6848	90M-HD302380R	DIODE , ZENER ,1/2W, 3.6V		CVDZJ3.6BT		
	D9301	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T		
	D9304,9305	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T		
	D9308,9309	943209001080S	DIODE , CHIP , SWITCHING		CVD1SS355T		
CAPACITORS GROUP							
	C5601	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C5603	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5610	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5612	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5614	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5616	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5620	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5631	nsp	CAP, CHIP(1608, 50V/470pF)		CCUS1H471JA		
	C5644	nsp	ELECT CAP 47uF 25V		CCEA1EH470T		
	C5651	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C5653	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5670	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5681	nsp	CAP, CHIP(1608, 50V/470pF)		CCUS1H471JA		
	C5694	nsp	ELECT CAP 47uF 25V		CCEA1EH470T		
	C5701	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C5703	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5710	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5712	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5714	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5716	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5720	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5731	nsp	CAP, CHIP(1608, 50V/470pF)		CCUS1H471JA		
	C5744	nsp	ELECT CAP 47uF 25V		CCEA1EH470T		
	C5751	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C5753	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5770	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5781	nsp	CAP, CHIP(1608, 50V/470pF)		CCUS1H471JA		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C5794	nsp	ELECT CAP 47uF 25V		CCEA1EH470T		
	C5801	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C5803	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5810	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5812	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5814	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5816	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5820	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5831	nsp	CAP, CHIP(1608, 50V/470pF)		CCUS1H471JA		
	C5844	nsp	ELECT CAP 47uF 25V		CCEA1EH470T		
	C5851	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C5853	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5870	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5881	nsp	CAP, CHIP(1608, 50V/470pF)		CCUS1H471JA		
	C5894	nsp	ELECT CAP 47uF 25V		CCEA1EH470T		
	C5901	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C5903	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5910	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5912	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5914	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5916	00MOA22702520	CAP , ELECT		CCEA1EH221T		
	C5920	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5931	nsp	CAP, CHIP(1608, 50V/470pF)		CCUS1H471JA		
	C5944	nsp	ELECT CAP 47uF 25V		CCEA1EH470T		
	C5951	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C5953	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5970	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C5981	nsp	CAP, CHIP(1608, 50V/470pF)		CCUS1H471JA		
	C5994	nsp	ELECT CAP 47uF 25V		CCEA1EH470T		
	C6096	nsp	CAP, CHIP(1608, 50V/100pF)	N, K	CCUS1H101JA		
	C6703,6704	943134010590S	CAP, ELECT(50V/22uF)		CCEA1HH220T		
	C6707,6708	943134010590S	CAP, ELECT(50V/22uF)		CCEA1HH220T		
	C6709,6710	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA		
	C6719	943134010470S	CAP, ELECT(50V/0.1uF)		CCEA1HH0R1T		
	C6723,6724	943134010590S	CAP, ELECT(50V/22uF)		CCEA1HH220T		
	C6727,6728	943134010590S	CAP, ELECT(50V/22uF)		CCEA1HH220T		
	C6729,6730	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA		
	C6745	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC		
	C6753,6754	943134010590S	CAP, ELECT(50V/22uF)		CCEA1HH220T		
	C6757,6758	943134010590S	CAP, ELECT(50V/22uF)		CCEA1HH220T		
	C6759,6760	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA		
	C6773,6774	943134010590S	CAP, ELECT(50V/22uF)		CCEA1HH220T		
	C6777,6778	943134010590S	CAP, ELECT(50V/22uF)		CCEA1HH220T		
	C6779,6780	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA		
	C6782	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC		
	C6789	943134010470S	CAP, ELECT(50V/0.1uF)		CCEA1HH0R1T		
	C6800	943134010470S	CAP, ELECT(50V/0.1uF)		CCEA1HH0R1T		
	C6802	943134010590S	CAP, ELECT(50V/22uF)		CCEA1HH220T		
	C6805	943134010590S	CAP, ELECT(50V/22uF)		CCEA1HH220T		
	C6806	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA		
	C6820	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC		
	C6829,6830	943134010590S	CAP, ELECT(50V/22uF)		CCEA1HH220T		
	C6833,6834	943134010590S	CAP, ELECT(50V/22uF)		CCEA1HH220T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C6835,6836	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA		
	C6845	00D9609010023	CAP, ELECT(50V/0.47uF)		CCEA1HHR47T		
	C6849	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C6859,6860	943134010590S	CAP, ELECT(50V/22uF)		CCEA1HH220T		
	C6863,6864	943134010590S	CAP, ELECT(50V/22uF)		CCEA1HH220T		
	C6865,6866	nsp	CAP, CHIP(1608, 50V/330pF)		CCUS1H331JA		
	C6875	00D9609010023	CAP, ELECT(50V/0.47uF)		CCEA1HHR47T		
	C6877	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC		
	C6891,6892	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C6893,6894	nsp	CAP, CHIP(1608, 50V/100pF)		CCUS1H101JA		
	C6897	nsp	CAP, CHIP(1608, 50V/0.01uF)		CCUS1H103KC		
	C6901-6903	nsp	CAP, CHIP(1608, 50V/100pF)	N, K	CCUS1H101JA		
	C6904	nsp	CAP, CHIP(1608, 50V/0.1uF)	N, K	CCUS1H104KC		
	C6911	nsp	CAP, CHIP(1608, 50V/0.1uF)	N, K	CCUS1H104KC		
	C9301	00D9430062101	CAP, ELECT(16V/100uF)		CCEA1CH101T		
	C9302	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C9303	00D9430062101	CAP, ELECT(16V/100uF)	N, K	CCEA1CH101T		
	C9304,9305	00D9430175108	CAP, ELECT(50V/10uF)	N, K	CCEA1HH100T		
	C9306	943134010600S	CAP, ELECT(16V/330uF)		CCEA1CH332E		
	C9307	00D9430175108	CAP, ELECT(50V/10uF)		CCEA1HH100T		
	C9308	943134010600S	CAP, ELECT(16V/330uF)		CCEA1CH332E		
	C9309	00D9430062101	CAP, ELECT(16V/100uF)		CCEA1CH101T		
	C9310	90M-OA000620R	CAP , ELECT		CCEA1EH682E		
	C9311	00D9430062101	CAP, ELECT(16V/100uF)		CCEA1CH101T		
	C9312	943134010620S	CAP, ELECT(25V/4700uF)		CCEA1EH472E		
	C9316	943134010620S	CAP, ELECT(25V/4700uF)		CCEA1EH472E		
RESISTORS GROUP							
	R5601	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T		
	R5603	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T		
	R5620	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R5621,5622	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T		
	R5623,5624	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T		
	R5625,5626	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5627,5628	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T		
	R5629,5630	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T		
	R5631	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R5640	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R5643	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5644	00MNN05333610	RES, CHIP(1608/5%/33Kohm)		CRJ10DJ333T		
	R5645	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R5646	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5647	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R5651	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T		
	R5653	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T		
	R5670	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R5671,5672	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T		
	R5673,5674	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T		
	R5675,5676	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5677,5678	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T		
	R5679,5680	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T		
	R5681	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R5690	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R5693	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5694	00MNN05333610	RES, CHIP(1608/5%/33Kohm)		CRJ10DJ333T		
	R5695	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R5696	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5697	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R5701	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T		
	R5703	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T		
	R5720	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R5721,5722	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T		
	R5723,5724	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T		
	R5725,5726	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5727,5728	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T		
	R5729,5730	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T		
	R5731	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R5740	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R5743	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5744	00MNN05333610	RES, CHIP(1608/5%/33Kohm)		CRJ10DJ333T		
	R5745	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R5746	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5747	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R5751	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T		
	R5753	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T		
	R5770	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R5771,5772	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T		
	R5773,5774	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T		
	R5775,5776	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5777,5778	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T		
	R5779,5780	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T		
	R5781	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R5790	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R5793	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5794	00MNN05333610	RES, CHIP(1608/5%/33Kohm)		CRJ10DJ333T		
	R5795	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R5796	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5801	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T		
	R5803	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T		
	R5820	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		
	R5821,5822	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T		
	R5823,5824	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T		
	R5825,5826	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5827,5828	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T		
	R5829,5830	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T		
	R5831	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T		
	R5840	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R5843	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5844	00MNN05333610	RES, CHIP(1608/5%/33Kohm)		CRJ10DJ333T		
	R5845	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R5846	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R5847	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R5851	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T		
	R5853	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T		
	R5870	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T		

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
R5871,5872	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T	
R5873,5874	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T	
R5875,5876	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	
R5877,5878	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T	
R5879,5880	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T	
R5881	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	
R5890	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	
R5893	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	
R5894	00MNN05333610	RES, CHIP(1608/5%/33Kohm)		CRJ10DJ333T	
R5895	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R5896	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	
R5897	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R5901	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T	
R5903	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T	
R5920	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R5921,5922	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T	
R5923,5924	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T	
R5925,5926	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	
R5927,5928	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T	
R5929,5930	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T	
R5931	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	
R5940	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	
R5943	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	
R5944	00MNN05333610	RES, CHIP(1608/5%/33Kohm)		CRJ10DJ333T	
R5945	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R5946	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	
R5947	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R5951	00MNN05563610	RES, CHIP(1608/5%/56Kohm)		CRJ10DJ563T	
R5953	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T	
R5970	00MNN05101610	RES, CHIP(1608/5%/100ohm)		CRJ10DJ101T	
R5971,5972	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T	
R5973,5974	00MNN05562610	RES, CHIP(1608/5%/5.6Kohm)		CRJ10DJ562T	
R5975,5976	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	
R5977,5978	00MNN05220610	RES, CHIP(1608/5%/22ohm)		CRJ10DJ220T	
R5979,5980	00MNN05331610	RES, CHIP(1608/5%/330ohm)		CRJ10DJ331T	
R5981	00MNN05105610	RES, CHIP(1608/5%/1Mohm)		CRJ10DJ105T	
R5985,5986	nsp	WIRE , COPPER		C3A206	
R5990	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	
R5993	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	
R5994	00MNN05333610	RES, CHIP(1608/5%/33Kohm)		CRJ10DJ333T	
R5995	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R5996	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T	
R5997	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R6701,6702	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	
R6703,6704	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T	
R6705,6706	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	
R6707-6710	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T	
R6711,6712	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T	
R6713	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	
R6714	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T	
R6715-6718	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T	
R6719	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	
R6721,6722	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R6723	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R6724	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R6725	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R6726	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R6727-6730	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R6731,6732	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R6735-6738	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R6751,6752	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T		
	R6753,6754	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R6755,6756	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R6757-6760	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R6761,6762	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R6763	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R6765-6768	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R6769	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R6771,6772	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T		
	R6773,6774	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R6775,6776	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R6777-6780	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R6781,6782	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R6783	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R6784	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R6785-6788	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R6789	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T		
	R6800,6801	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T		
	R6802,6803	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R6804	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R6806	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R6807	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R6810,6811	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R6813,6814	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R6821,6822	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R6827,6828	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T		
	R6829-6832	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R6833-6836	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R6837,6838	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R6839	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R6840	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R6843,6844	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R6845	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T		
	R6846	nsp	RES, CHIP(1608/5%/0ohm)		CRJ10DJ0R0T		
	R6848	00MNN05821610	RES, CHIP(1608/5%/820ohm)		CRJ10DJ821T		
	R6849	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R6857,6858	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T		
	R6859-6862	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
	R6863-6866	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T		
	R6867,6868	00MNN05221610	RES, CHIP(1608/5%/220ohm)		CRJ10DJ221T		
	R6869	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R6870	00MNN05102610	RES, CHIP(1608/5%/1Kohm)		CRJ10DJ102T		
	R6873,6874	nsp	RES, CHIP(1608/5%/10Kohm)		CRJ10DJ103T		
	R6875	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T		
	R6891,6892	00MNN05474610	RES, CHIP(1608/5%/470Kohm)		CRJ10DJ474T		
	R6893,6894	00MNN05104610	RES, CHIP(1608/5%/100Kohm)		CRJ10DJ104T		

Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
R6895,6896	00MNN05471610	RES, CHIP(1608/5%/470ohm)		CRJ10DJ471T		
R6901-6904	00MNN05101610	RES, CHIP(1608/5%/100ohm)	N, K	CRJ10DJ101T		
R6906	00MNN05101610	RES, CHIP(1608/5%/100ohm)	N, K	CRJ10DJ101T		
R6925,6926	nsp	RES, CHIP(1608/5%/0ohm)	N, K	CRJ10DJ0R0T		
R6927,6928	00MNN05561610	RES, CHIP(1608/5%/560ohm)		CRJ10DJ561T		
OTHERS PARTS GROUP						
BD691	nsp	FERRITE , CHIP BEAD(4516/60R)	N, K	CLZ9Z014Z		
BK610	nsp	PLATE, MAIN PCB		CMC2A424		
BN461	nsp	WIRE ASS'Y LOCKING (13P,2.0MM,220MM,UL1007#26)		CWB1B013220HC		
BN640	nsp	WIRE ASS'Y , (13P, 50mm, 2mm PITCH, UL1007, #26)		CWB1B013050HC		
BN932,933	nsp	PIN HEADER (11P,1.25mm,STRAIGHT,B- TO-B)		CJP11GI281Z		
CN61A	nsp	PIN HEADER (17P,1.25mm,STRAIGHT,B- TO-B)		CJP17GI281Z		
CN62A	nsp	PIN HEADER (15P,1.25mm,STRAIGHT,B- TO-B)		CJP15GI281Z		
CN63A	nsp	PIN HEADER (17P,1.25mm,STRAIGHT,B- TO-B)		CJP17GI281Z		
CN64A	nsp	PIN HEADER (21P,1.25mm,STRAIGHT,B- TO-B)		CJP21GI281Z		
JK681	943643102130S	JACK, 4P(W/R,W/R),SEPA-GND, GOLD		CJJ4P079Z	*	
JK682	943643102140S	JACK, 4P(W/R,W/B),SEPA-GND, GOLD		CJJ4P080Z	*	
JK683	943643102130S	JACK, 4P(W/R,W/R),SEPA-GND, GOLD		CJJ4P079Z	*	
JK684	943646000840S	JACK , BOARD		CJJ4M056W		
JK689	943643102210S	JACK, 2P(W/R),SEPA-GND,GOLD		CJJ4N099Z	*	
TU401	943183100210S	TUNER , RDS , FM(PAL TYPE) , SI4705- B20	N	CNVMW104FV1- S63V		
TU401	943183100220S	TUNER , NO RDS , FM(PAL TYPE) , SI4704- B20	K	CNVMW004FV1-S63		

CNT PCB ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
IC961	231310009508S	I.C , REGULATOR (3.3V)	U	CVIPQ033DNA1ZPH	
IC962	00D2631289900	I.C , OPAMP(DUAL/LOW NOISE)	U	CVIAZ4580MTR-E1	
CAPACITORS GROUP					
C9601	nsp	CAP, CHIP(1608, 50V/0.1uF)	U	CCUS1H104KC	
C9602	00D9430175108	CAP, ELECT(50V/10uF)	U	CCEA1HH100T	
C9605	00D9430175108	CAP, ELECT(50V/10uF)	U	CCEA1HH100T	
C9609,9610	00MDD95330300	CAP, CHIP(1608, 50V/33pF)	U	CCUS1H330JA	
C9611	nsp	CAP, CHIP(1608, 50V/0.1uF)	U	CCUS1H104KC	
C9612	nsp	CAP, CHIP(1608, 10V/1uF)	U	CCUS1A105KC	
C9613	nsp	CAP, CHIP(1608, 50V/0.1uF)	U	CCUS1H104KC	
C9614	nsp	CAP, CHIP(1608, 10V/1uF)	U	CCUS1A105KC	
C9615-9618	00D9430175108	CAP, ELECT(50V/10uF)	U	CCEA1HH100T	
C9622	nsp	CAP, CHIP(1608, 50V/0.1uF)	U	CCUS1H104KC	
C9644-9646	nsp	CAP, CHIP(1608, 50V/100pF)	U	CCUS1H101JA	
RESISTORS GROUP					
R9601	00MNN05153610	RES, CHIP(1608/5%/15Kohm)	U	CRJ10DJ153T	
R9602,9603	00MNN05104610	RES, CHIP(1608/5%/100Kohm)	U	CRJ10DJ104T	
R9604	00MNN05153610	RES, CHIP(1608/5%/15Kohm)	U	CRJ10DJ153T	
R9607,9608	00MNN05243610	RES, CHIP(1608/5%/24Kohm)	U	CRJ10DJ243T	
R9609,9610	00MNN05104610	RES, CHIP(1608/5%/100Kohm)	U	CRJ10DJ104T	
R9612,9613	nsp	RES, CHIP(1608/5%/0ohm)	U	CRJ10DJ0R0T	
R9644-9646	nsp	RES, CHIP(1608/5%/0ohm)	U	CRJ10DJ0R0T	
OTHERS PARTS GROUP					
CN21A	nsp	PIN HEADER (15P,1.25mm,STRAIGHT,B-TO-B)		CJP15GI281Z	
CN24A	nsp	PIN HEADER (27P,1.25mm,STRAIGHT,B-TO-B)		CJP27GI281Z	
CN25A	nsp	PIN HEADER (17P,1.25mm,STRAIGHT,B-TO-B)		CJP17GI281Z	
CN26A	nsp	PIN HEADER (11P,1.25mm,STRAIGHT,B-TO-B)		CJP11GI281Z	
CN27A	nsp	PIN HEADER (19P,1.25mm,STRAIGHT,B-TO-B)		CJP19GI281Z	
CN28A	nsp	PIN HEADER (11P,1.25mm,STRAIGHT,B-TO-B)		CJP11GI281Z	
CN41A	nsp	PIN HEADER (15P,1.25mm,STRAIGHT,B-TO-B)		CJP15GI281Z	
CN42A	nsp	PIN HEADER (27P,1.25mm,STRAIGHT,B-TO-B)		CJP27GI281Z	
CN43A	nsp	PIN HEADER (11P,1.25mm,STRAIGHT,B-TO-B)		CJP11GI281Z	
CN44A	nsp	PIN HEADER (17P,1.25mm,STRAIGHT,B-TO-B)		CJP17GI281Z	
CN45A	nsp	PIN HEADER (11P,1.25mm,STRAIGHT,B-TO-B)		CJP11GI281Z	
CN51A	nsp	PIN HEADER (15P,1.25mm,STRAIGHT,B-TO-B)		CJP15GI281Z	
CN52A	nsp	PIN HEADER (11P,1.25mm,STRAIGHT,B-TO-B)		CJP11GI281Z	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	CN53A	nsp	PIN HEADER (21P,1.25mm,STRAIGHT,B-TO-B)		CJP21GI281Z		
	CN61B	nsp	PIN SOCKET (17P,1.25mm,ANGLE,B-TO-B)		CJP17HJ282Z		
	CN62B	nsp	PIN SOCKET (15P,1.25mm,ANGLE,B-TO-B)		CJP15HJ282Z		
	CN63B	nsp	PIN SOCKET (17P,1.25mm,ANGLE,B-TO-B)		CJP17HJ282Z		
	CN64B	nsp	PIN SOCKET (21P,1.25mm,ANGLE,B-TO-B)		CJP21HJ282Z		
	CN961	nsp	WAFER, FFC(13P-1.25mm, STRAIGHT)	U	CJP13GA115ZY		

ELE OTHERS

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
△	F9001	963652010510S	FUSE(S506Series,250V,2A)	U	CBA2C2000TLEC		
△	F9001	963652010500S	FUSE(S506Series,250V,1.6A)	N, K	CBA2C1600TLEC		
△	F9002	90M-FS001430R	FUSE(218Series,250V/6.3A)	U	KBA2C6300TLEY		
△	F9002	90M-FS001490R	FUSE(218Series, 250V/4A)	N, K	KBA2C4000TLEY		
△	F9301-9305	963652010910S	FUSE(S506 Series, 250V,3.15A)		CBA2C3150TLEC		
	JW902	nsp	WIRE ASS'Y (1P, 80MM,BLK,#22)		CWE5202080A		

[illegible]