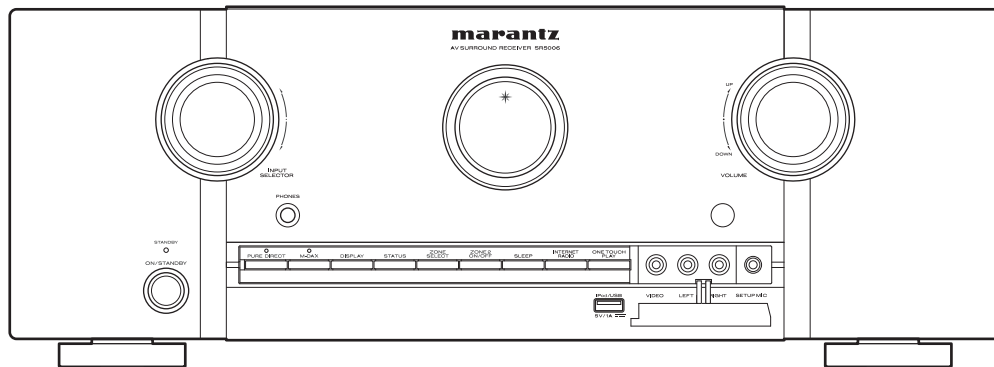


Service Manual

SR5006 /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[®]

SR5006

Ver. 4

Please refer to the
MODIFICATION NOTICE.

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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.

USA

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100 CORPORATE DRIVE
MAHWAH, NEW JERSEY 07430
USA

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D&M BUILDING, 2-1 NISSHIN-CHO,
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株式会社 ディーアンドエムホールディングス
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D&M SALES AND MARKETING SHANGHAI LTD.
ROOM.808 SHANGHAI AIRPORT CITY TERMINAL
NO.1600 NANJING (WEST) ROAD, SHANGHAI,
CHINA. 200040
TEL : 021 - 6248 - 5151
FAX : 021 - 6248 - 4434

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部品を使用して下さい。

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 ⚠ 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 1MΩ or greater. If it is less, the set must be inspected and repaired.

CAUTION Concerning important safety parts

Many of the electric and the structural parts used in the set have special safety properties. In most cases these properties are difficult to distinguish by sight, and the use of replacement parts with higher ratings (rated power and withstand voltage) does not necessarily guarantee that safety performance will be preserved. Parts with safety properties are indicated as shown below on the wiring diagrams and the parts list in this service manual. Be sure to replace them with the parts which have the designated part number.

- (1) Schematic diagrams.....Indicated by the ⚠ mark.
- (2) Parts lists.....Indicated by the ⚠ mark.

The use of parts other than the designated parts could cause electric shocks, fires or other dangerous situations.

NOTE FOR SCHEMATIC DIAGRAM

WARNING:

Parts indicated by the $\triangle$ mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the set to the customer, be sure to carry out either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the set is defective.

WARNING:

DO NOT return the set to the customer unless the problem is identified and remedied.

NOTICE:

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM / M=1,000,000 OHM

ALL CAPACITANCE VALUES ARE EXPRESSED IN MICRO FARAD, UNLESS OTHERWISE INDICATED. P INDICATES MICRO-MICRO FARAD. EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

NOTE FOR PARTS LIST

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

WARNING: Parts indicated by the $\triangle$ mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

TECHNICAL SPECIFICATIONS

□ Audio Section

• Power amplifier

Rated output :

Front :

100 W + 100 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)

Center :

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

Surround :

100 W + 100 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)

Surround back:

100 W + 100 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)

Maximum effective output power:

Front :

180 W + 180 W (6 Ω, 1 kHz with 10 % T.H.D.)

Center :

180 W (6 Ω, 1 kHz with 10 % T.H.D.)

Surround :

180 W + 180 W (6 Ω, 1 kHz with 10 % T.H.D.)

Surround back:

180 W + 180 W (6 Ω, 1 kHz with 10 % T.H.D.)

Output connectors : 6 – 8 Ω (SPEAKER A+B: 8 Ω)

• Analog

Input sensitivity/Input impedance : 200 mV/47 kΩ

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

S/N : 100 dB (IHF–A weighted, DIRECT mode)

□ Video section

• Standard video connectors

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

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

• Color component video connector

Input/output level and impedance :

Y (brightness) signal — 1 Vp-p, 75 Ω

PB / CB signal — 0.7 Vp-p, 75 Ω

PR / CR signal — 0.7 Vp-p, 75 Ω

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

□ Tuner section

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

Receiving Range (for U model) :

[FM] 87.5 MHz – 107.9 MHz

[AM] 520 kHz – 1710 kHz

Receiving Range (for N, K model) :

[FM] 87.5 MHz – 108.0 MHz

[AM] 522 kHz – 1611 kHz

Usable Sensitivity :

[FM] 1.2 μV (12.8 dBf)

[AM] 18 μV

50 dB Quieting Sensitivity (for U model) :

[FM] MONO 2.8 μV (20.2 dBf)

50 dB Quieting Sensitivity (for N, K model) :

[FM] MONO 2.0 μV (17.3 dBf)

STEREO 42 μV (34.5 dBf)

S/N (IHF-A) (for U model) :

[FM] MONO 70 dB (IHF-A weighted, DIRECT mode)

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

S/N (IHF-A) (for N, K model) :

[FM] MONO 72 dB (DIRECT mode)

STEREO 67 dB (DIRECT mode)

Total harmonic Distortion (at 1 kHz) (for U model) :

[FM] MONO 0.7 %

STEREO 1.0 %

Total harmonic Distortion (at 1 kHz) (for N, K model) :

[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

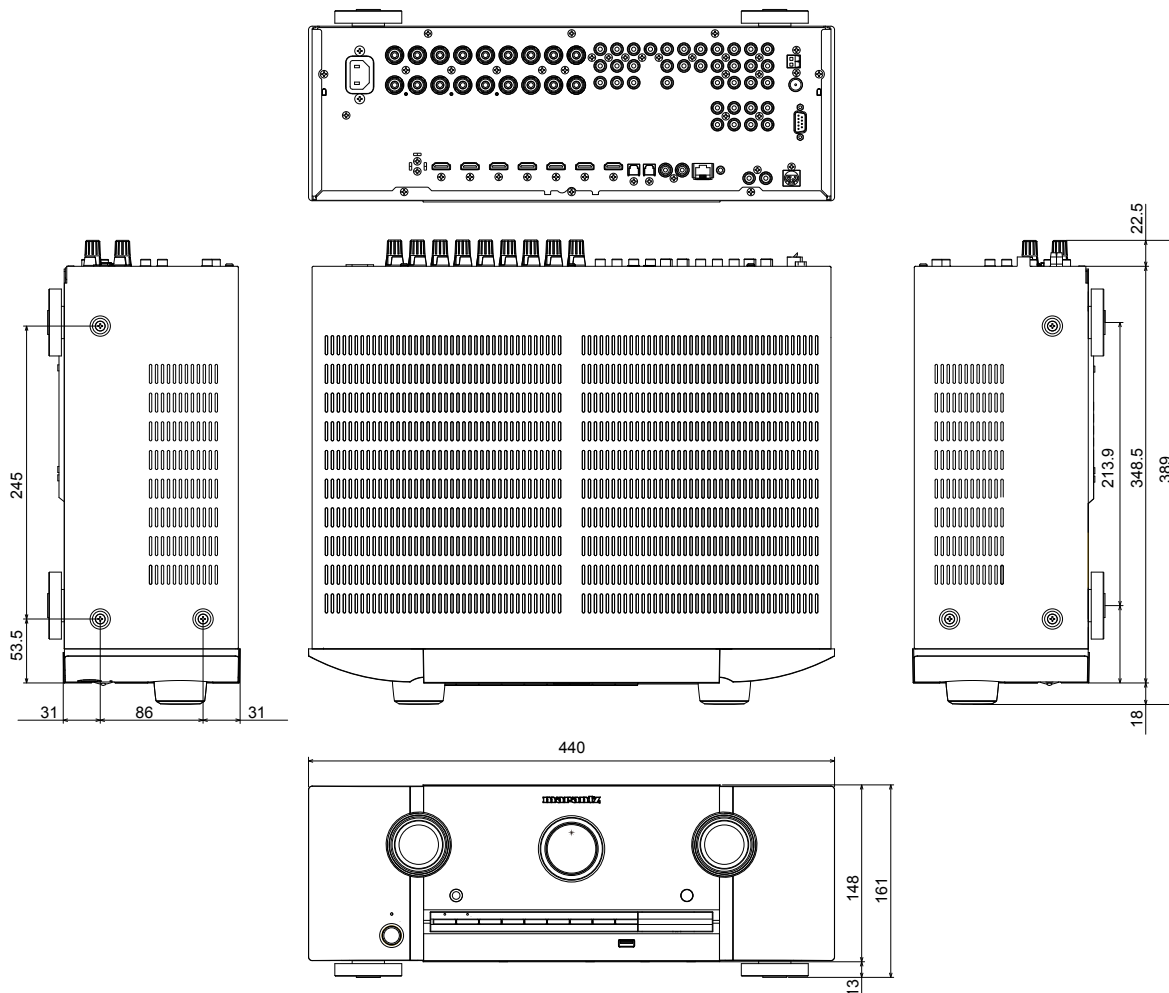
Power consumption :

650 W

0.2 W (Standby)

3 W (CEC standby)

DIMENSION



CAUTIONS IN SERVICING

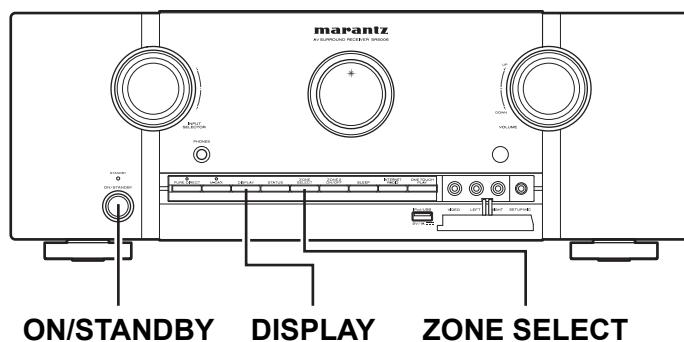
Initializing AV Surround Receiver

AV Surround Receiver initialization should be performed when the μ com, peripheral parts of μ com, and Digital P.W.B. were replaced.

1. Turn off the power pressing ON/STANDBY button.
2. Press ON/STANDBY button while simultaneously while pressing ZONE SELECT and DISPLAY 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.



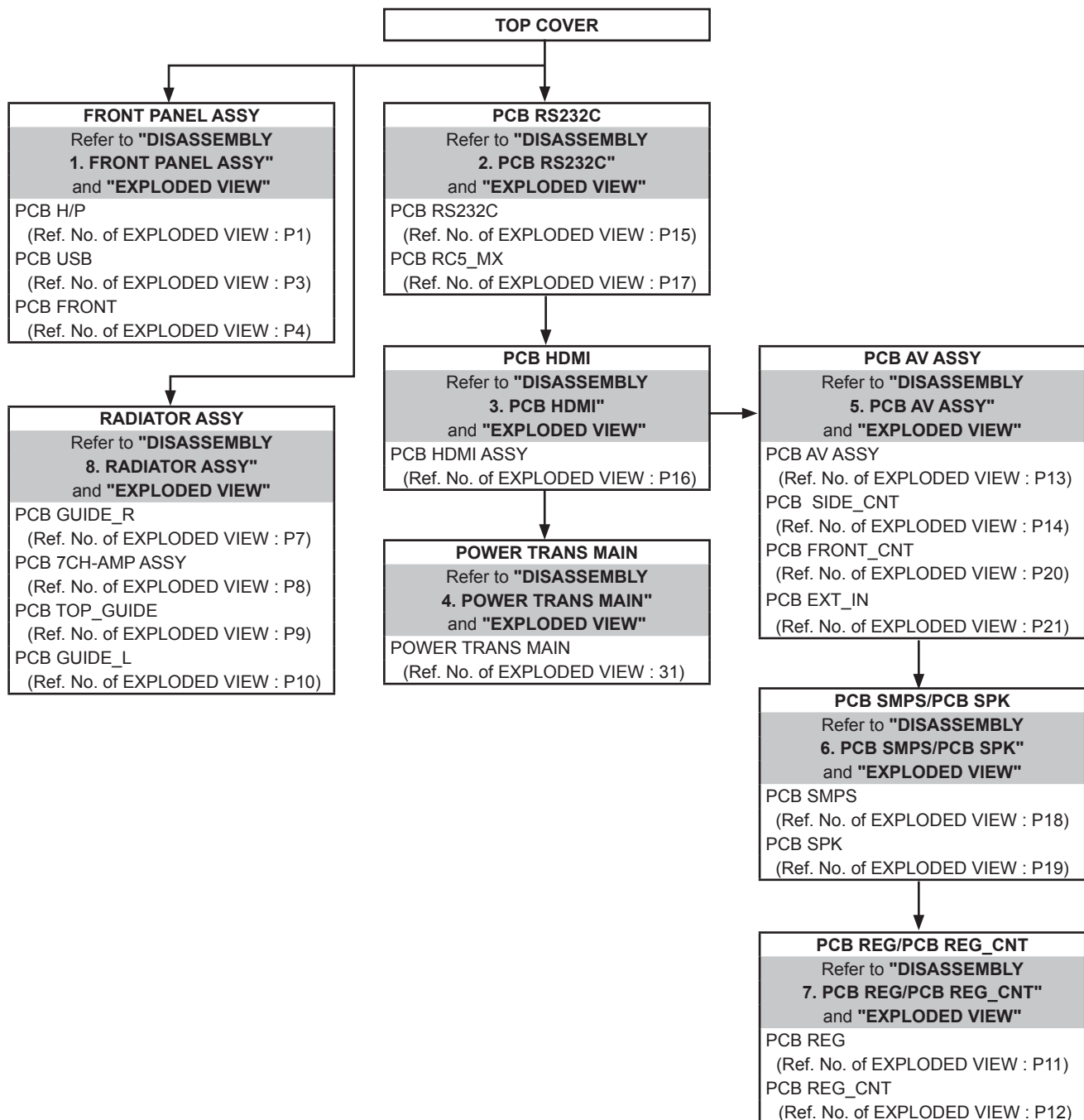
Service Jig

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 : 1 Set
(Refer to 45 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 re-assembling, observe "attention of assembling".
 - 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.

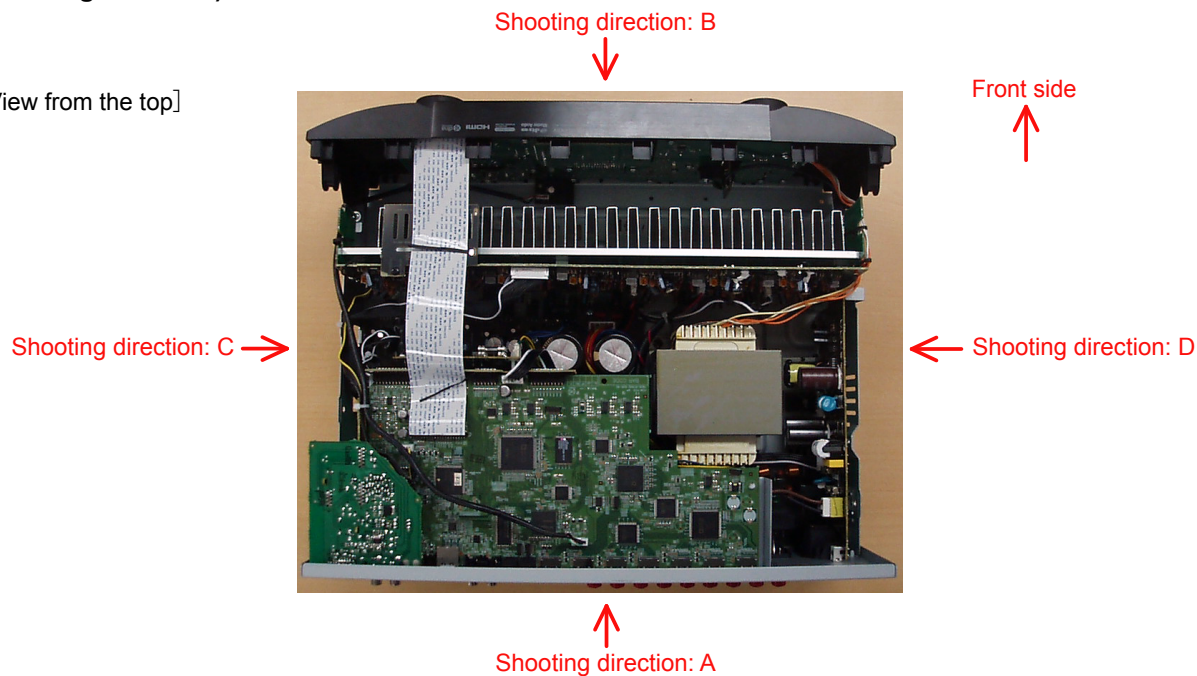


About the photos used for "descriptions of the DISASSEMBLY" section

- 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 viewpoint of each photograph (Shooting direction)

[View from the top]

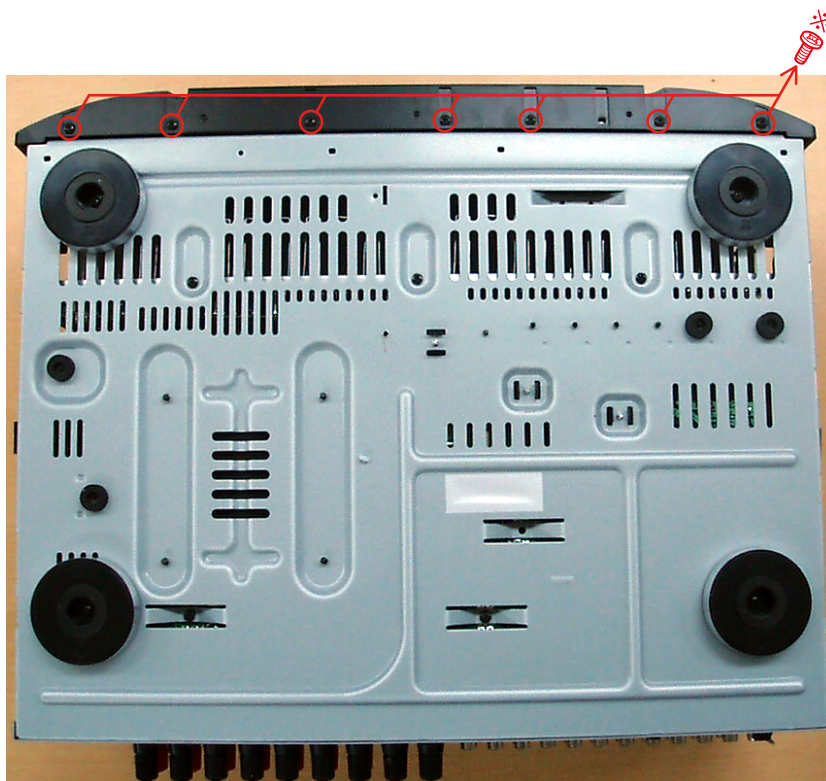


1. FRONT PANEL ASSY

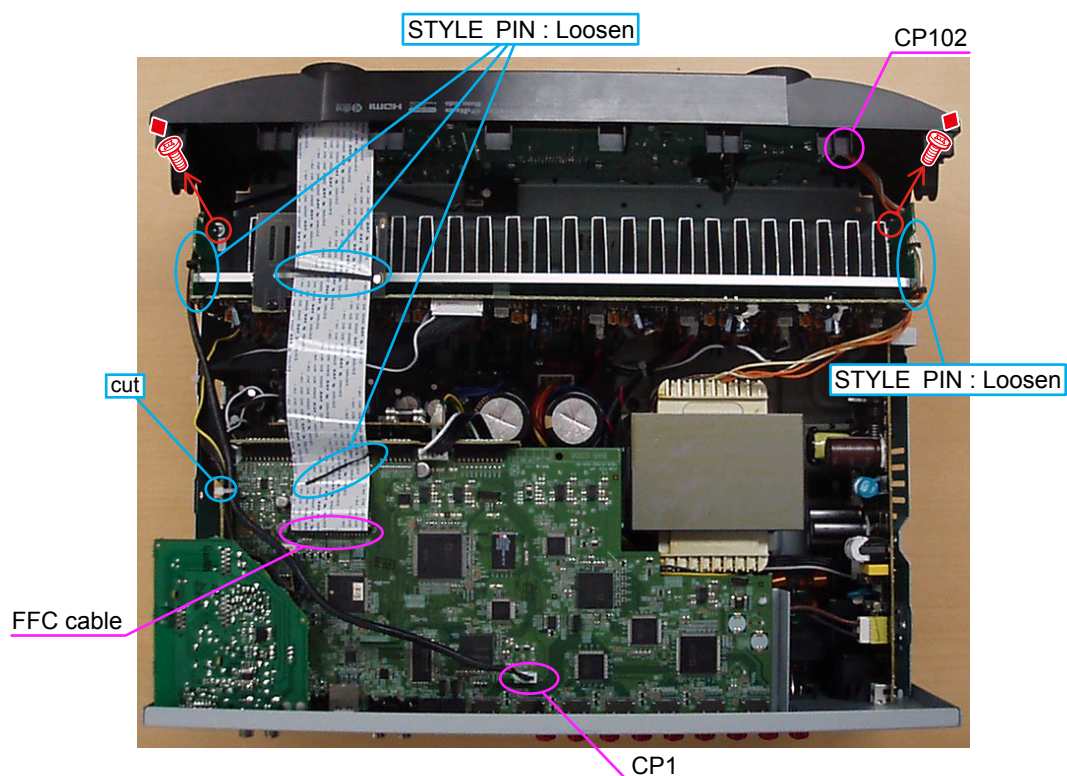
Proceeding : **TOP COVER** → **FRONT PANEL ASSY**

- (1) Remove the screws.

View from the bottom



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

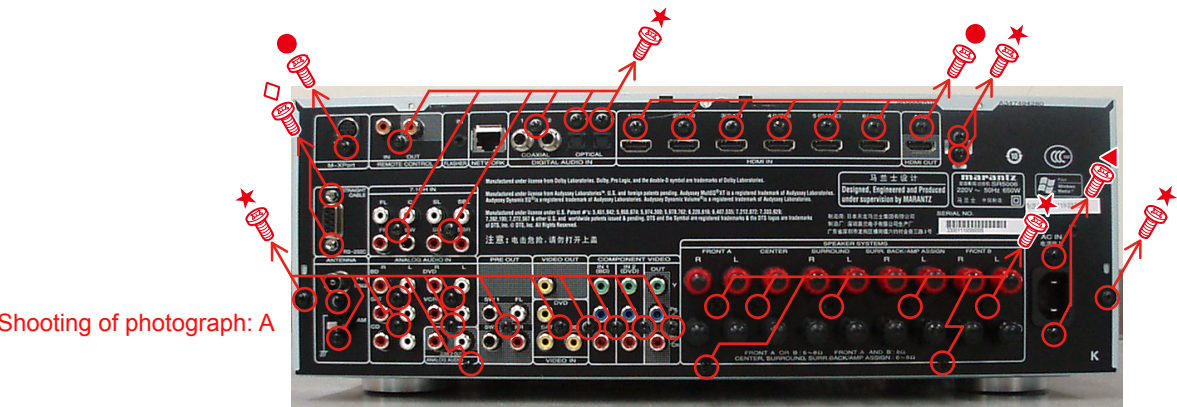


Please refer to "EXPLODED VIEW" for the disassembly method of each P.W.B included in FRONT PANEL ASSY.

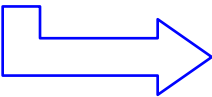
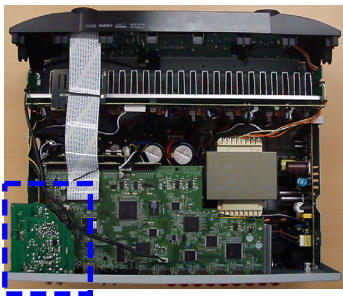
2. PCB RS232C

Proceeding : TOP COVER → PCB RS232C

(1) Remove the screws.



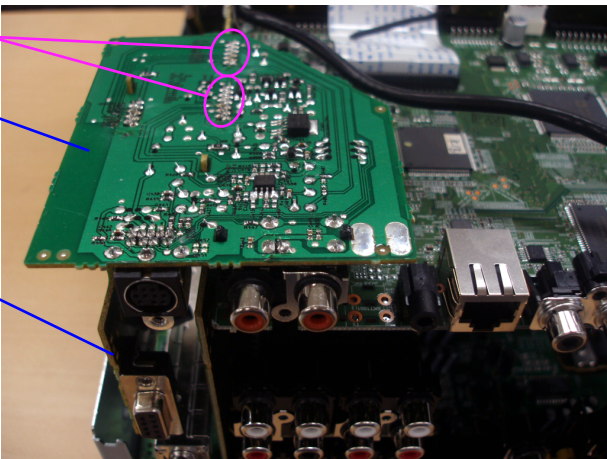
(2) Disconnect the connector board.



Board to board

PCB RC5_MX

PCB RS232C

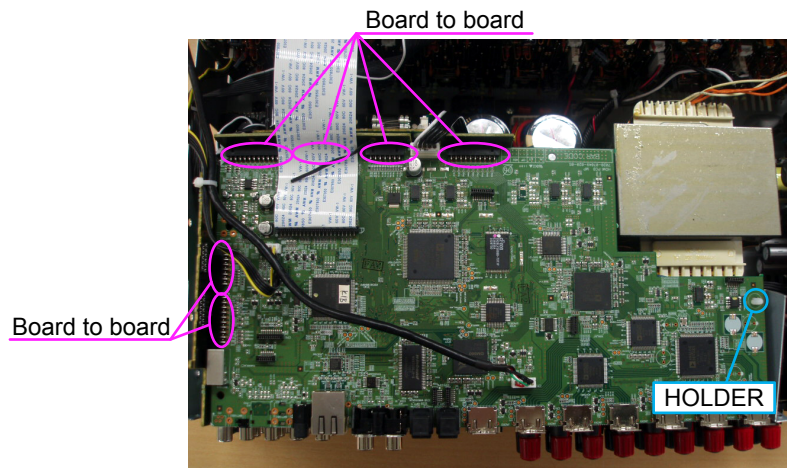
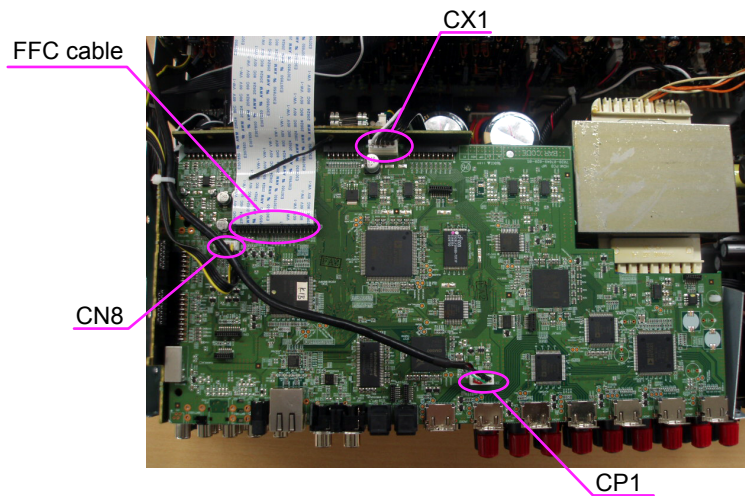
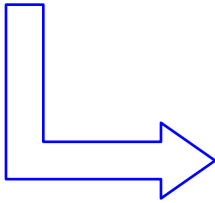
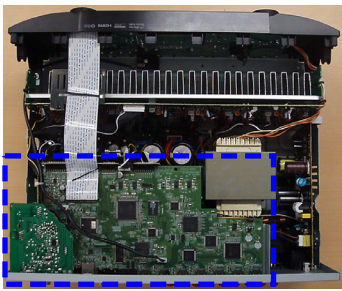


Please refer to "EXPLODED VIEW" for the disassembly method of PCB RC5_MX and PCB RS232C.

3. PCB HDMI

Proceeding : **TOP COVER** → **PCB RS232C** → **PCB HDMI**

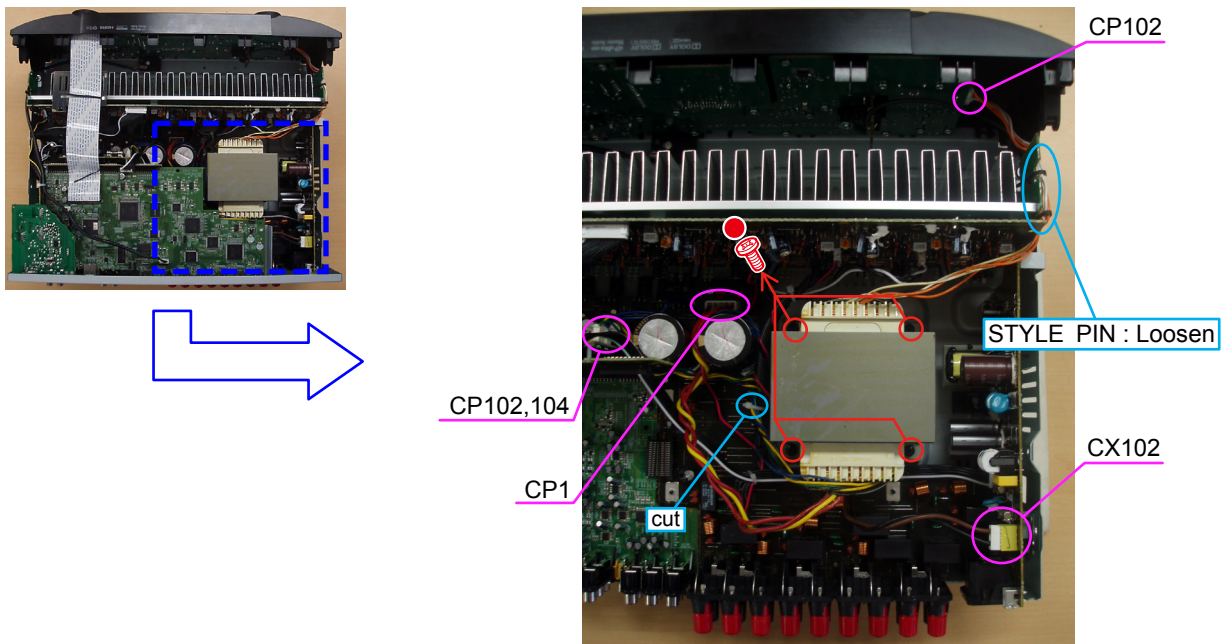
- (1) Disconnect the connector wires and FFC cable, then disconnect the connector board and HOLDER.



4. POWER TRANS MAIN

Proceeding : **TOP COVER** → **PCB RS232C** → **PCB HDMI** → **POWER TRANS MAIN**

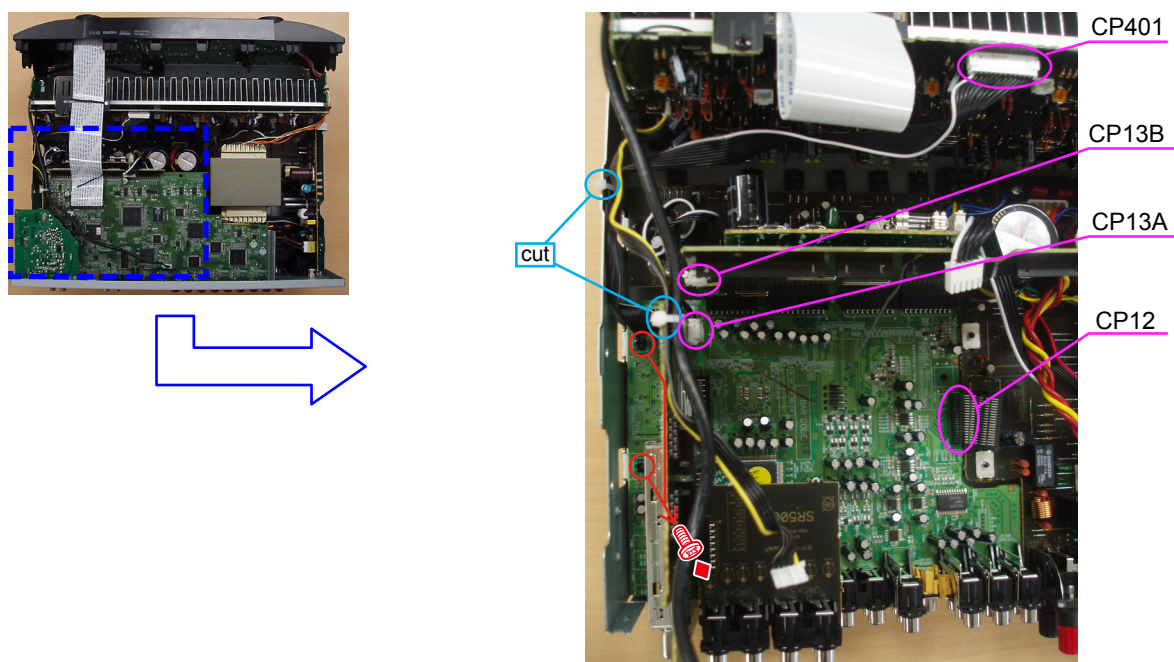
- (1) Disconnect the connector wires, then remove the screws.



5. PCB AV ASSY

Proceeding : **TOP COVER** → **PCB RS232C** → **PCB HDMI** → **PCB AV ASSY**

- (1) Cut the wire clamp band, then disconnect the connector wires. Remove the screws.

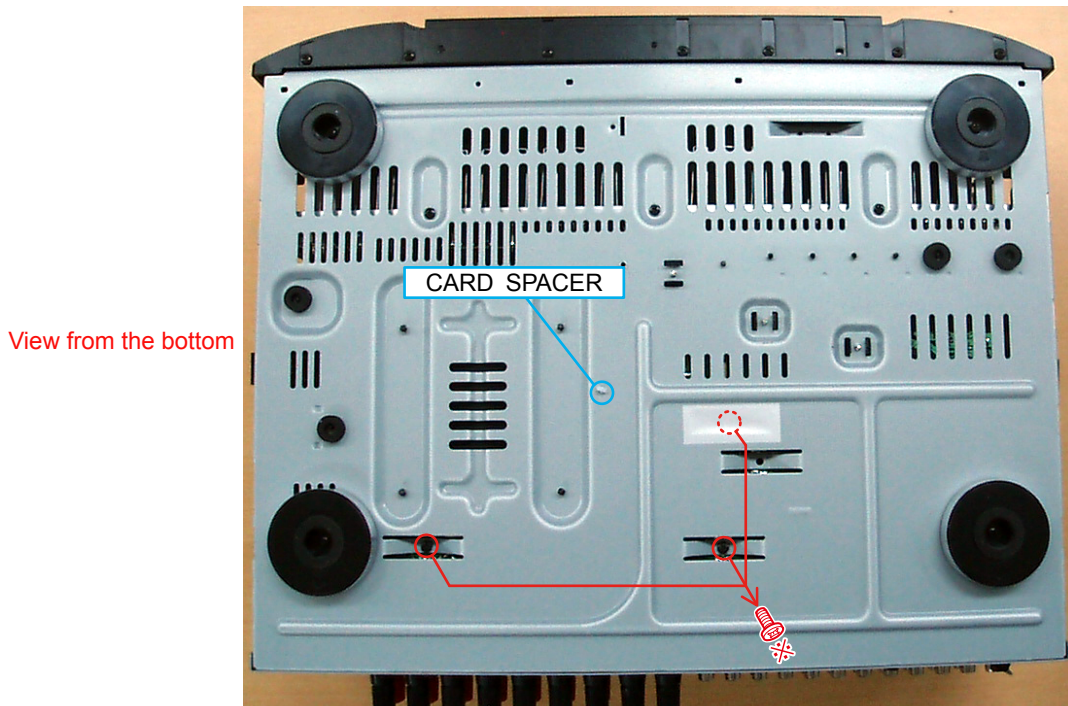


Please refer to "EXPLODED VIEW" for the disassembly method of each P.W.B.

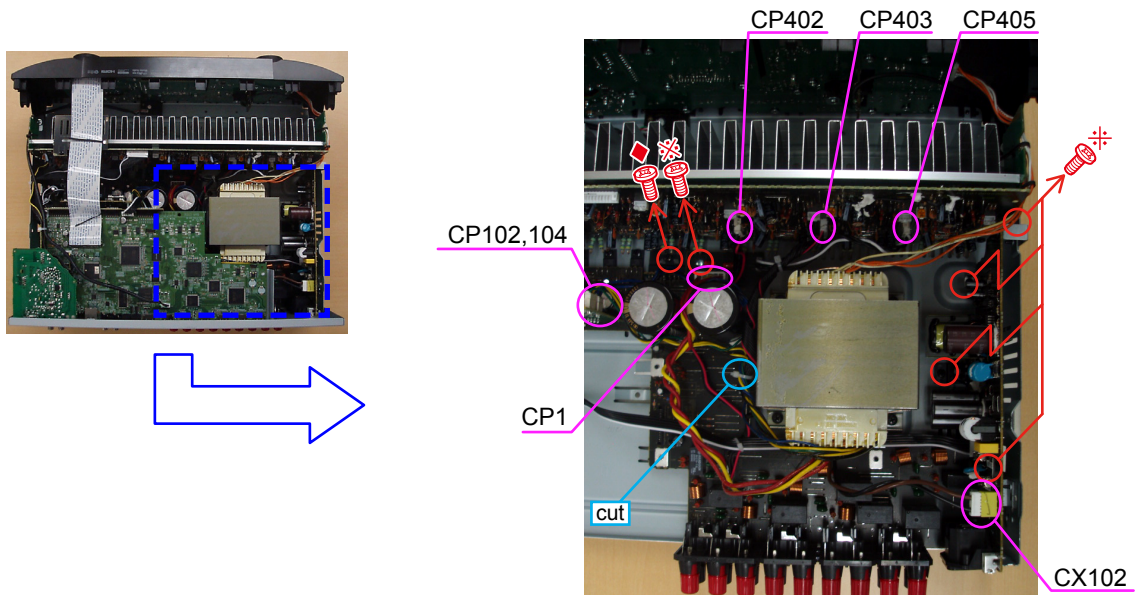
6. PCB SMPS/PCB SPK

Proceeding : **TOP COVER** → **PCB RS232C** → **PCB HDMI** → **PCB AV ASSY**
→ **PCB SMPS/PCB SPK**

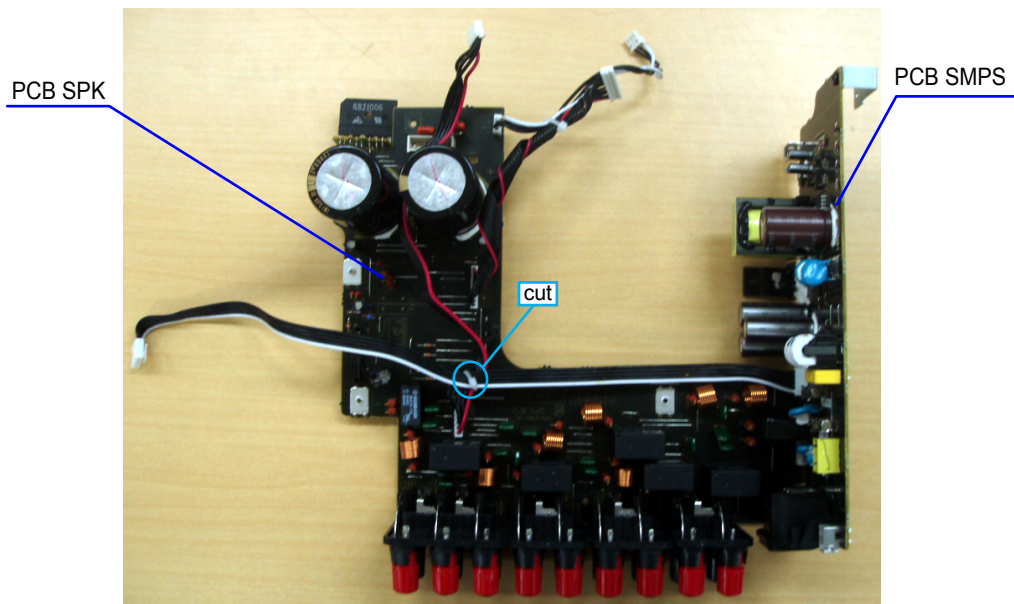
(1) Remove the screws and CARD SPACER.



(2) Cut the wire clamp band, then disconnect the connector wires. Remove the screws.



(3) Remove the PCB SMPS/PCB SPK from the CHASSIS, then cut the wire clamp band.

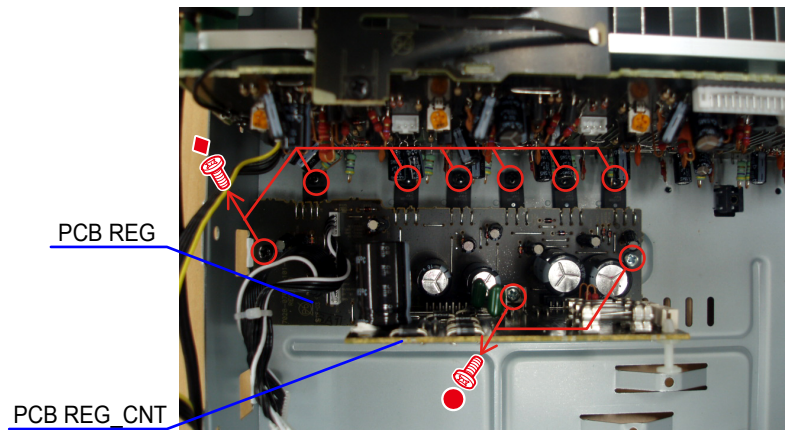
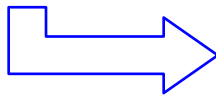
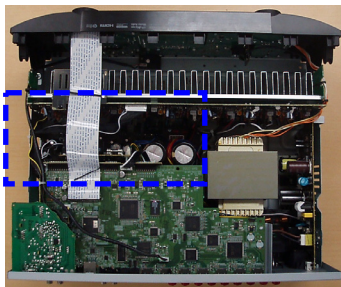


Please refer to "EXPLODED VIEW" for the disassembly method of each P.W.B.

7. PCB REG/PCB REG_CNT

Proceeding : **TOP COVER** → **PCB RS232C** → **PCB HDMI** → **PCB AV ASSY**
→ **PCB SMPS/PCB SPK** → **PCB REG/PCB REG_CNT**

(1) Remove the screws.

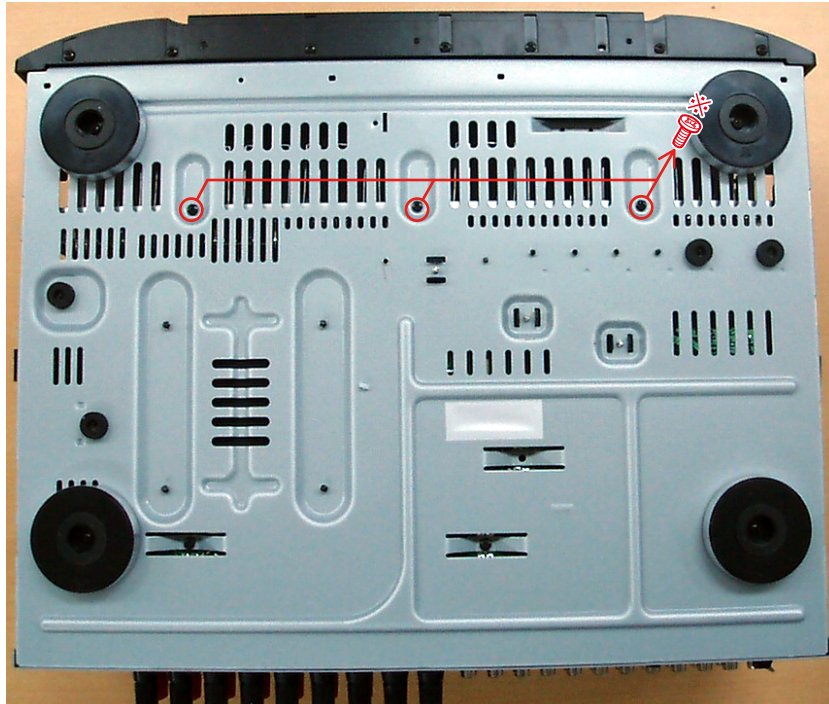


8. RADIATOR ASSY

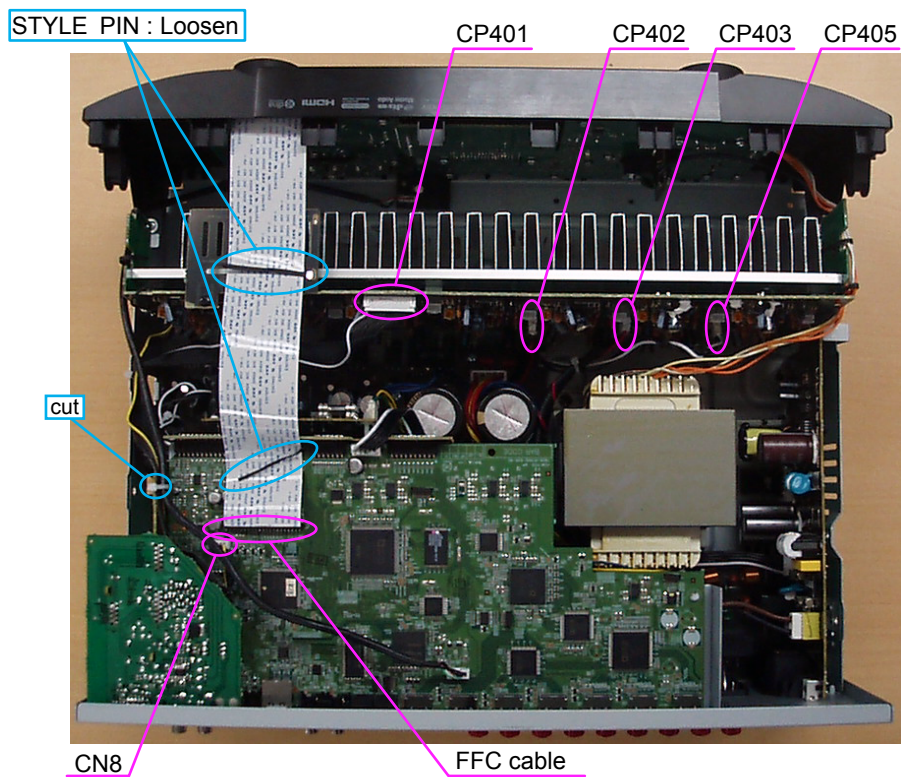
Proceeding : **TOP COVER** → **RADIATOR ASSY**

(1) Remove the screws.

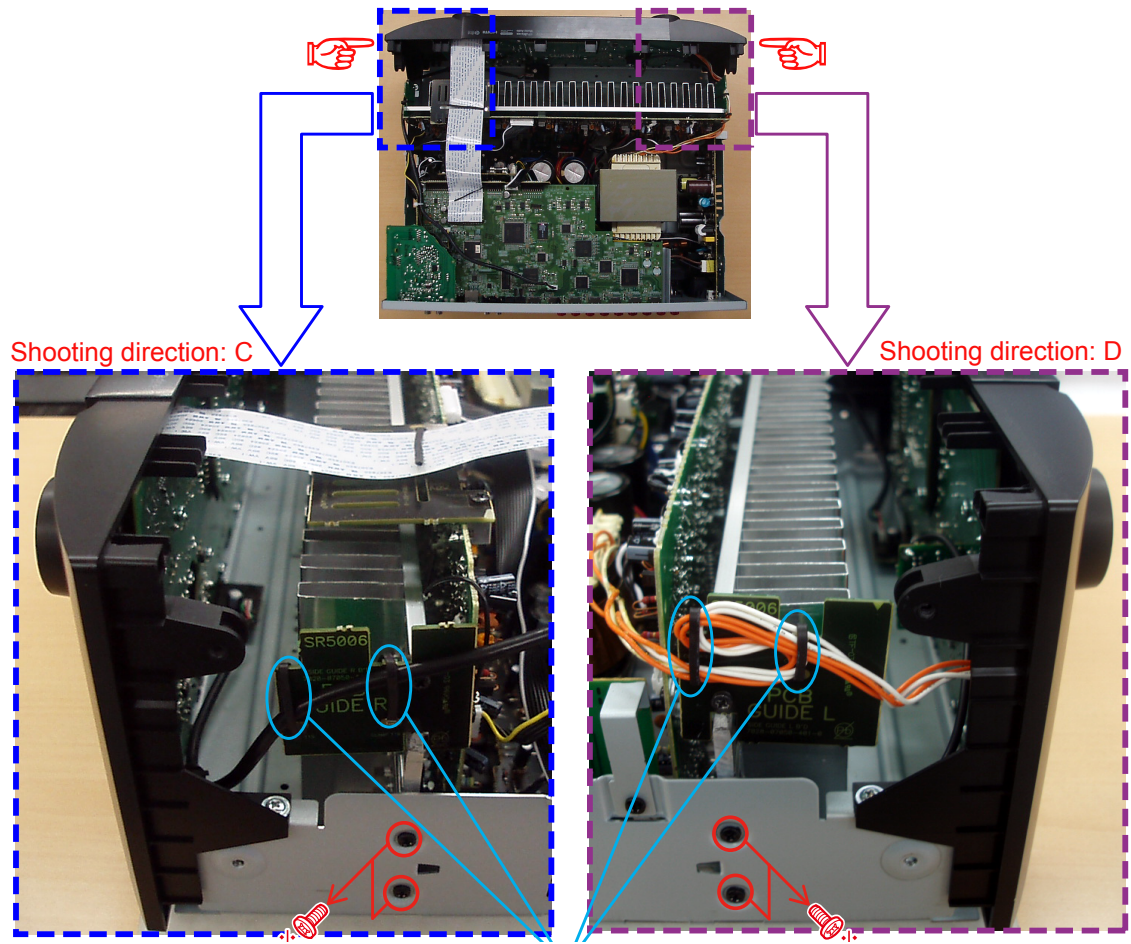
View from the bottom



(2) Disconnect the connector wires and FFC cable.



(3) Remove the screws.



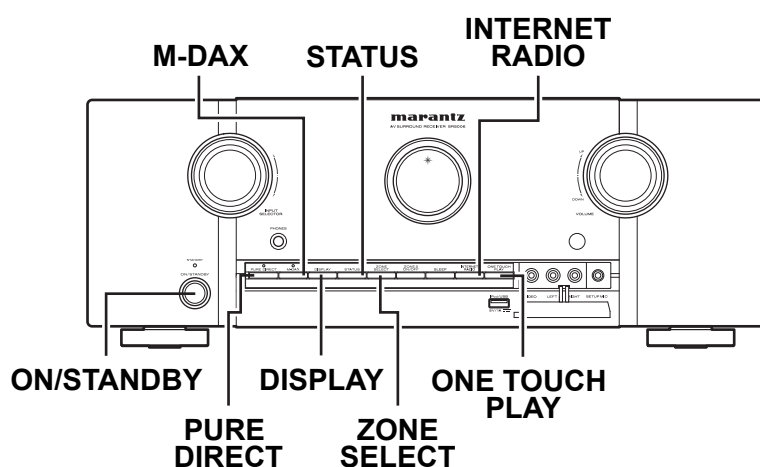
Please refer to "EXPLODED VIEW" for the disassembly method of each P.W.B included in RADIATOR ASSY.

SPECIAL MODE

Special mode setting button

- ※ No.1 - 4, 6-10 : Press the ON/STANDBY button to turn on the power while pressing both the button A and the button B at the same time.
- ※ No.5 : The AC power cord on while pressing both the button A and the button B at the same time.
- ※ No.11 - 14 : Turn on the power, then press and hold down the button A and button B for over 3 seconds.

No.	Mode	Button A	Button B	Contents
1	Version display (μcom/DSP Error Display)	ZONE SELECT	STATUS	Firmware versions such as Main or DSP are displayed in the FL Display. Errors are displayed when they occur. (Refer to 19 page)
2	Displaying the protection history mode	INTERNET RADIO	ONE TOUCH PLAY	The protection history is displayed. (Refer to 21 page)
3	User Initialization mode (Installer Setup settings are not initialized.)	ZONE SELECT	DISPLAY	Backup data initialization is carried out. (Installer Setup settings are not initialized.)
4	Factory Initialization mode (Installer Setup settings are also initialized.)	M-DAX	DISPLAY	Backup data initialization is carried out. (Installer Setup settings are also initialized.)
5	Mode for switching tuner frequency step (U/N model only)	PURE DIRECT	STATUS	Change tuner frequency step to FM:200kHz/AM:10kHzSTEP
6	Mode for preventing remote control acceptance	PURE DIRECT	ONE TOUCH PLAY	Operations using the remote control are rejected. (Mode cancellation: Turn off the power and execute the same button operations as when performing setup.)
7	Panel lock mode	PURE DIRECT	DISPLAY	Operations using the main unit panel buttons or the master volume knob are rejected.
8	Panel lock mode (Master volume is not locked.)	PURE DIRECT	STATUS	Operations using the main unit panel buttons are rejected.
9	Cancellation of panel lock mode	PURE DIRECT	ZONE SELECT	Panel lock mode is cancelled.
10	Installer Setup mode	ZONE SELECT	M-DAX	Access the Remote Maintenance mode via the internet. Installer Setup is displayed on GUI/Option Menu. ※ Refer to AVR_RemoteMaintenance_.pdf of SDI.
11	Diagnostic mode	ZONE SELECT	PURE DIRECT	This mode is used for confirming the Video and Audio (signal) paths. (Troubleshooting) The signal paths of the set can be easily confirmed after repair.
12	Memory Backup	M-DAX	STATUS	Backup of DUAL BACKUP MEMORY is performed. (Refer to 23 page)
13	Memory Recovery	M-DAX	DISPLAY	Recovery of DUAL BACKUP MEMORY is performed. (Refer to 23 page)
14	Memory Backup Clear	M-DAX	ZONE SELECT	Backup of DUAL BACKUP MEMORY is cleared. (Refer to 23 page)



1. µcom/DSP Version display mode

1.1. Operation specifications

µcom/DSP version display mode:

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

Starting up:

Press the "ON/STANDBY" button to turn on the power while pressing the "ZONE SELECT" and "STATUS" 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 OSD.

1.2. Display Order

Error information(Refer to 1.3. Error display) → ① Model destination information → ② Firmware Package Version
→ ③ Main µ-com / FBL(1st Boot Loader) Version → ④ DSP ROM Version → ⑤ Audio PLD Version
→ ⑥ OSD SFLASH Version → ⑦ Ethernet(DM860) 1st Boot Loader, Hardware ID
→ ⑧ Ethernet(DM860) 2nd Boot Loader, Rhapsody Flag → ⑨ Ethernet(DM860) IMAGE
→ ⑩ Ethernet(DM860)MAC ADDRESS information

① Model destination information :

SR5006 U model

FLD	S	R	5	0	0	6		U
		S	N	-	*	*	*	*
			*	*	*	*	*	*

SR5006 N model

FLD	S	R	5	0	0	6		N
		S	N	-	*	*	*	*
			*	*	*	*	*	*

SR5006 K model

FLD	S	R	5	0	0	6		K
		S	N	-	*	*	*	*
			*	*	*	*	*	*

⑥ OSD S-FLASH Version :

SR5006 U model

FLD	0	S	D					
	0	9	2	1	*	*	*	*

SR5006 N model

FLD	0	S	D					
	0	9	2	2	*	*	*	*

SR5006 K model

FLD	0	S	D					
	0	9	2	5	*	*	*	*

② Firmware Package Version :

FLD	P	A	C	K	A	G	E	
					0	0	0	0

⑦ Ethernet(DM860) 1st Boot Loader, Hardware ID :

FLD	N	E	T		F	B	L	
	*	*	*	*	*	*		
						-	A	A

③ Main µ-com / FBL(1st Boot Loader) Version :

FLD	M	A	I	N				
	*	*	*	*	*	*	*	*
	B	L	-	*	*	.	*	*

⑧ Ethernet(DM860) 2nd Boot Loader, Rhapsody Flag :

FLD	N	E	T		S	B	L	
	*	*	*	*	*	*	*	*
	*	*	*	*	*	-	Q	A

④ DSP ROM Version :

FLD	D	S	P					
				*	*	.	*	*

⑨ Ethernet(DM860) IMAGE :

FLD	N	E	T		I	M	G	
	*	*	*	*	*	*	*	*
	*	*	*	*	*			

⑤ Audio PLD Version :

FLD	A	.	P	L	D			
				*	*	.	*	*

⑩ Ethernet(DM860) MAC ADDRESS information :

FLD	N	E	T		M	A	C	
			*	*	*	*	*	*
		-	*	*	*	*	*	*

1.3. Error display

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

Condition	Status	FL Display	Trouble shooting
① Firm Check NG	Compared with the destination setting on the board. This is displayed when the model name or destination information written into the firmware does not match. (※)		• Please check the destination-resistors (R773/R776, HDMI B'D). • Please write the firmware of correct destination.
② DIR NG	No response from DIR		• Please check DIR (IC21, HDMI B'D) and around circuits.
③ DSP NG	When DSP code boot is performed, the DSP FLAG0 port does not change to "H" even if DSP reset is executed. Before DSP command is issued, the DSP BUSY port does not change to "L". ⚠ When DSP data read is performed, executing WRITE="L" does not result in ACK="H". When DSP data read is performed, executing REQ="L" does not result in ACK="L". When DSP data writing is performed, executing WRITE="H" does not result in ACK="H". When DSP data writing is performed, executing REQ="L" does not result in ACK="L".	 	• Please check DSP (U8, HDMI B'D) and around circuits.
④ EEPROM NG	Error occurs in EEPROM checksum. (***) is a block address number.)		
⑤ Both DSP /EEPROM OK		(No error display, version display only)	

Status	FL Display
※ 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 upper right column, as shown on the right. ⚠	

2. Errors checking mode (Displaying the protection history)

2.1. Operation specifications

Error mode (Displaying the protection history):

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

Starting up:

Press the "ON/STANDBY" button to turn on the power while pressing the "INTERNET RADIO" and "ONE TOUCH PLAY" buttons. The error (protection history display) mode is set.

Now, press the "STATUS" button to turn on the FL display.

2.2. About the display on the FL display

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

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

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

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

FLD	P	R	O	T	E	C	T	
		H	I	S	T	O	R	Y
	:	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)

FLD	P	R	O	T	E	C	T	
		H	I	S	T	O	R	Y
	:	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(A) or THERMAL(B) protection)

FLD	P	R	O	T	E	C	T	
		H	I	S	T	O	R	Y
	:	T	H	M		A		

FLD	P	R	O	T	E	C	T	
		H	I	S	T	O	R	Y
	:	T	H	M		B		

Cause: The temperature of the heat sink is excessive.

If the power is turned on without correcting the abnormality, the protection function will work about 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 protection history as shown above is displayed, the normal display reappears.

2.3. Clearing the protection history

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

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

FLD	P	R	O	T	E	C	T	
		H	I	S	T	O	R	Y
	=	D	C					

Press and hold down "PURE DIRECT" button for 3 seconds.

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

The above is displayed and the protection history is cleared.

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

- (2) Initialize. (Refer to "Initializing AV Surround Receiver" 7 page.)

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

Warning indication by the POWER LED

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

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

3. DUAL BACKUP MEMORY

This product has a Dual Backup Memory function. The conventional Backup functions to memorize, in the EEPROM (IC40) 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 **3.2. SERVICE PRECAUTIONS**.

3.1. HOW TO OPERATE

-Backup-

- (1) Configure a setting you would like to save in the MEMORY and hold down the "M-DAX" and "STATUS" 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 "M-DAX" and "DISPLAY" 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	

3.2. SERVICE PRECAUTIONS

When the Flash Rom (IC40) 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 "M-DAX" and "ZONE SELECT" 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

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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

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

4.1. Starting diagnostic mode

Turn on the power, then press and hold down the "ZONE SELECT" and "PURE DIRECT" buttons for over 3 seconds. 
When this mode is operating, "

4.2. Canceling diagnostic mode

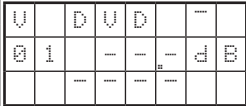
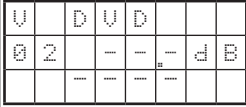
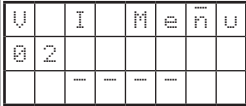
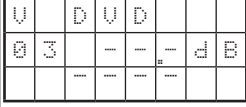
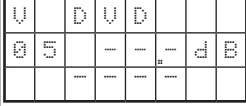
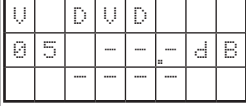
Turn off the power by pressing the ON/Standby button.

4.3. Operation

When you perform remote operation in accordance with the instructions in "Details of how to operate remote controller" *a) in the table below using the remote control unit (RC014SR).
You will find using another remote control unit with the macro functions very useful. To use the macro functions, program a macro function to output a remote control code in accordance with the steps in *b) in the table below.

4.4. Video system confirmation items

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

Confirmation item		Setting and display	Details of how to operate remote controller *a)	Output sequence of remote control codes ※ It is useful to form a macro program. *b)	Contents of confirmation	Remarks
1	Analog Video (signal) Path	All ZONE : ON Display: 	1.Press [AMP]	①ZONE2 POWER OFF	·Input : CVBS / Output : CVBS ·Input : Component / Output : Component	
			2.Press [Z2]			
			3.Press [STANDBY]			
			4.Press [AMP]	②KEY1/AUTO (Main Zone) (Initialization & Video Convert All OFF)		
2	Analog or HDMI to HDMI (signal) Path	Display: 	5.Press [1/AUTO]	③ZONE2 POWER ON	·Input : CVBS / Output : HDMI ·Input : Component / Output : HDMI ·Input : HDMI / 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.
			6.Press [Z2]			
			7.Press [POWER ON]	④DVD (Main Zone)		
			8.Press [AMP]			
3	OSD FUNCTION	Menu : ON All ZONE :ON Display: Scroll "> Look at your TV >" 	9.Press [DVD] twice	⑤DVD (Main Zone)	·OSD Display / Output : HDMI (※ As the input source, you can switch from DVD to other ones.)	
			1.Press [AMP]	①ZONE2 POWER OFF		
			2.Press [Z2]			
			3.Press [STANDBY]			
4	CEC FUNCTION (Control Monitor : HDMI Monitor1)	HDMI Control : ON Display: 	4.Press [AMP]	②KEY2/STEREO (Main Zone) (Initialization & Video Convert All OFF & IP Scaler "Analog & HDMI")	·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.)	
			5.Press [2/STEREO]			
			6.Press [Z2]	③ZONE2 POWER ON		
			7.Press [POWER ON]			
5	HDMI Audio (signal) Path (Audio : AMP)	Audio : AMP(When checking the audio output from AMP) Display: 	8.Press [AMP]	④DVD (Main Zone)	·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.)	
			9.Press [DVD] twice	⑤GUI MENU (Main Zone)		
			1.Press [AMP]	①ZONE2 POWER OFF		
			2.Press [Z2]			
6	HDMI Audio (signal) Path (Audio : AMP)	Audio : AMP(When checking the audio output from AMP) Display: 	3.Press [STANDBY]		·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 [AMP]	②KEY5/HT-EQ (Main Zone) (Initialization & Select Audio AMP)		
			5.Press [5/HT-EQ]			
			6.Press [DVD] twice	③DVD (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
6	HDMI Audio (signal) Path (Audio : TV)	Audio : TV(When checking the audio output from TV) Display: U D V D 0 6 - - - d B - - -	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·Input : HDMI (Signal of PCM, DolbyDigital or DTS) / Output : TV (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [AMP] 5.Press [6/V.SEL]	②KEY6/V.SEL (Main Zone) (Initialization & Select Audio TV)		
			6.Press [DVD] twice	③DVD (Main Zone)		

4.5. Audio system confirmation items

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

Confirmation item		Setting and display	Details of how to operate remote controller	Output sequence of remote control codes ※ It is useful to form a macro program.	Contents of confirmation	Remarks
1	Analog (signal) Path	Input Mode : Fixed ANALOG SURROUND mode : DIRECT Amp assign : NORMAL Display: A D V D 0 1 - - - d B - - -	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	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.)	
			4.Press [AMP] 5.Press [7/T.TONE]	②KEY7/T.TONE (Main Zone) (Initialization & Amp assign NORMAL& Input Mode Fixed ANALOG & SURROUND mode DIRECT)		
			6.Press [DVD] twice	③DVD (Main Zone)		
2	DIGITAL (signal) Path (MAIN)	Input Mode : Fixed DIGITAL Amp assign : NORMAL Display: A D V D 0 2 - - - d B - - -	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	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.)	
			4.Press [AMP] 5.Press [8/CH LVL]	②KEY8/CH LVL (Main Zone) (Initialization & Amp assign NORMAL& Input Mode Fixed DIGITAL)		
			6.Press [DVD] twice	③DVD (Main Zone)		
3	DIGITAL (signal) Path (ZONE2 : NET / USB)	Input Mode : Fixed DIGITAL Amp assign : ZONE2 ZONE2 Function : Source Display: Scroll "Network connection" A N e t w o 0 3 - - -	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·Input : Digital / Output : Speakers (SURR BACK L/R) ·Input : Digital / Output : LINE OUT(ZONE2 L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [AMP] 5.Press [INTERNET RADIO]	②INTERNET RADIO (Main Zone) (Initialization & Amp assign ZONE2 & Input Mode Fixed DIGITAL)		
			6.Press [Z2] 7.Press [POWER ON] 8.Press [AMP] 9.Press [NET/USB] twice	③ZONE2 POWER ON ④NET/USB (MAIN ZONE)		
4	HDMI (signal) Path	Input Mode : Fixed HDMI Amp assign : NORMAL Display: A D V D 0 5 - - - d B - - -	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	①ZONE2 POWER OFF	·Input : HDMI / Output : Speakers (Front L/R) ·Input : HDMI / Output : Pre OUT(Front L/R), SW(20Hz) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [AMP] 5.Press [SURROUND]	②SURROUND (Initialization & Amp assign NORMAL & Input Mode Fixed HDMI)		
			6.Press [DVD] twice	③DVD (Main Zone)		
5	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) Display: A D V D 0 6 2 0 0 d B - - -	1.Press [AMP] 2.Press [Z2] 3.Press [STANDBY]	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.)	
			4.Press [AMP] 5.Press [PURE DIRECT]	②PURE DIRECT (Initialization & Amp assign ZONE2 & SURROUND mode : Multi ch STEREO & ZONE2 Volume -20dB)		
			6.Press [DVD] twice	③DVD (Main Zone)		

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
6	Analog Audio (signal) Path (ZONE2) <					

BLOCK DIAGRAM

fig.1

VIDEO BLOCK DIAGRAM

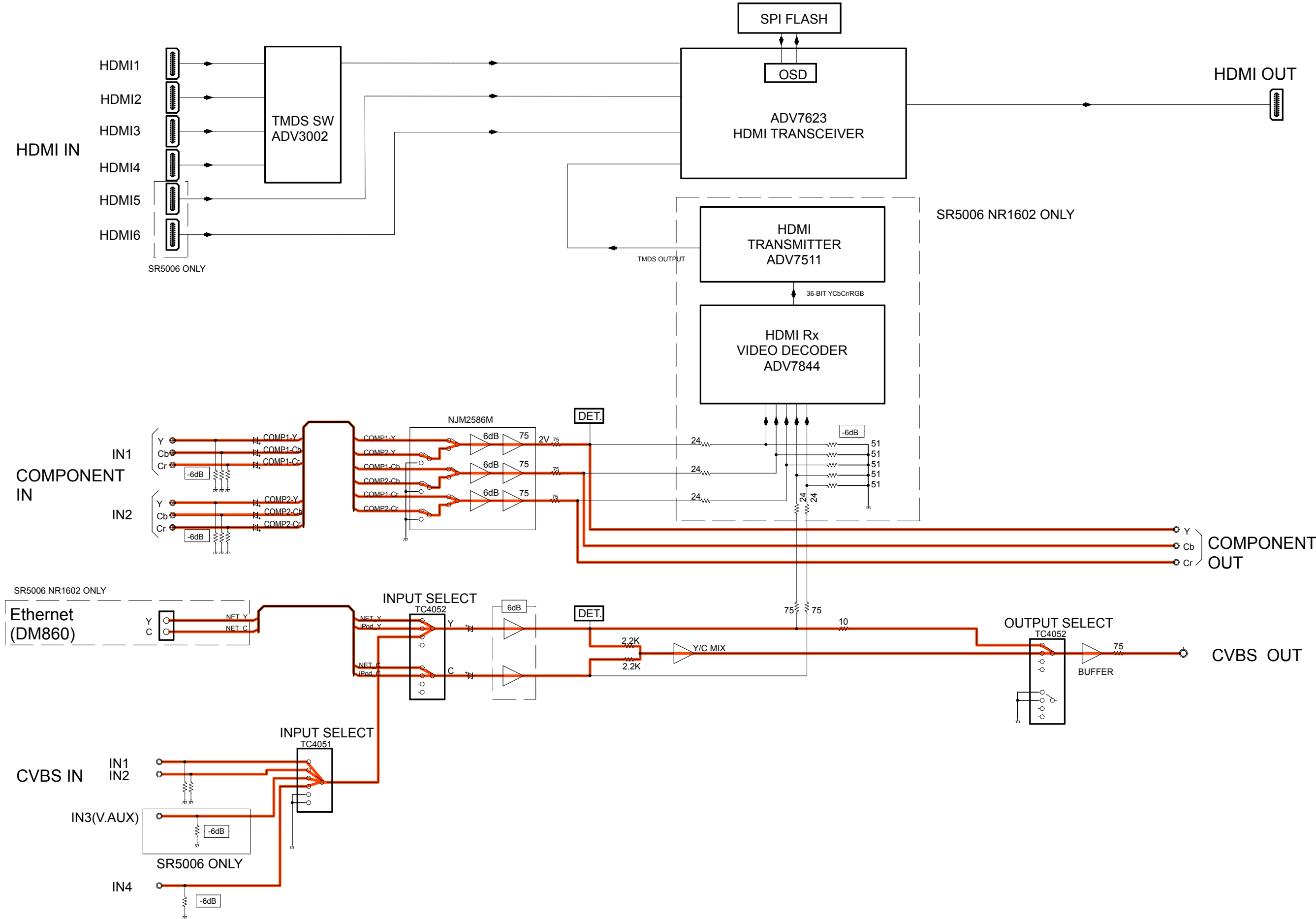


fig.2

VIDEO BLOCK DIAGRAM

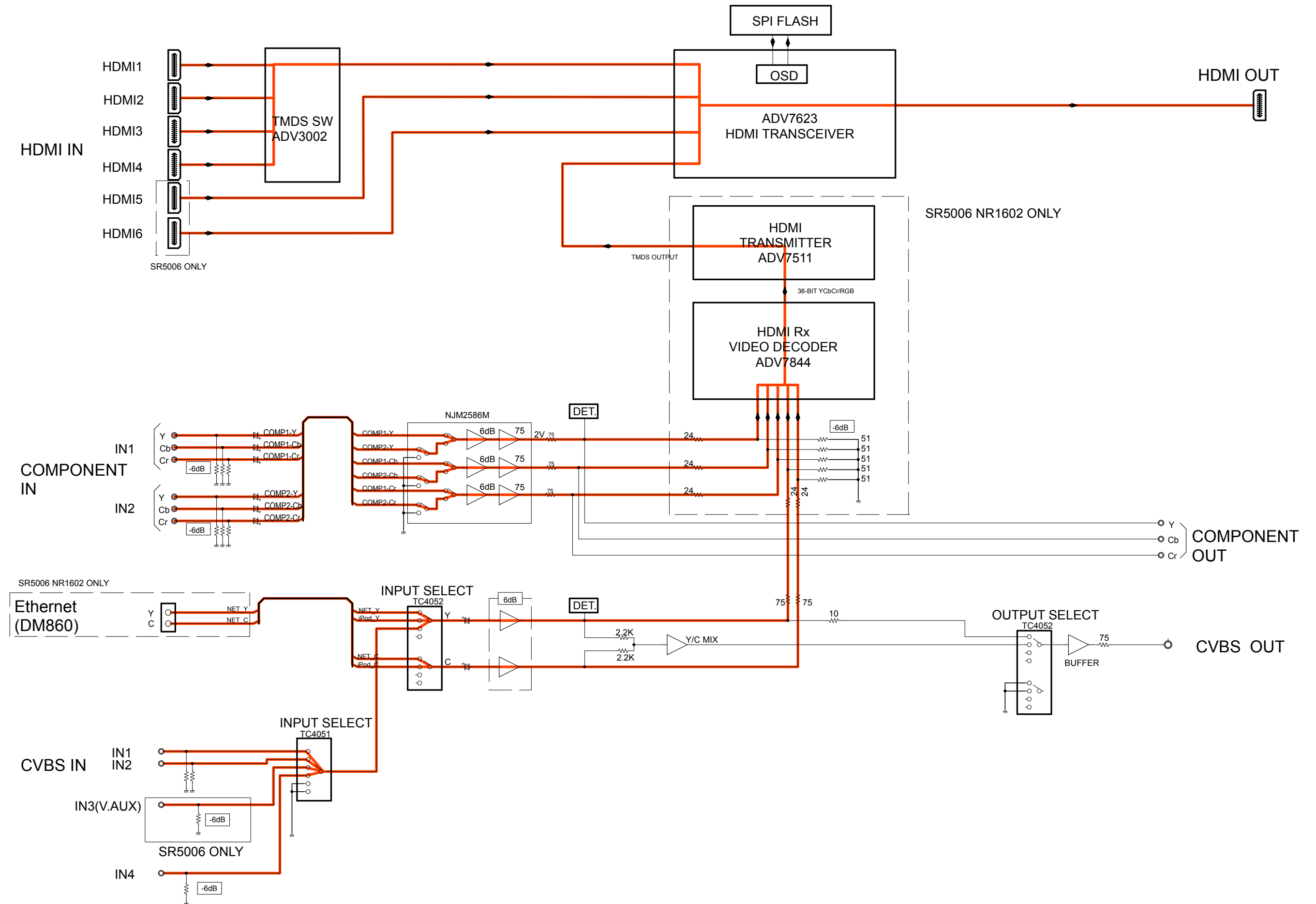


fig.3

VIDEO BLOCK DIAGRAM

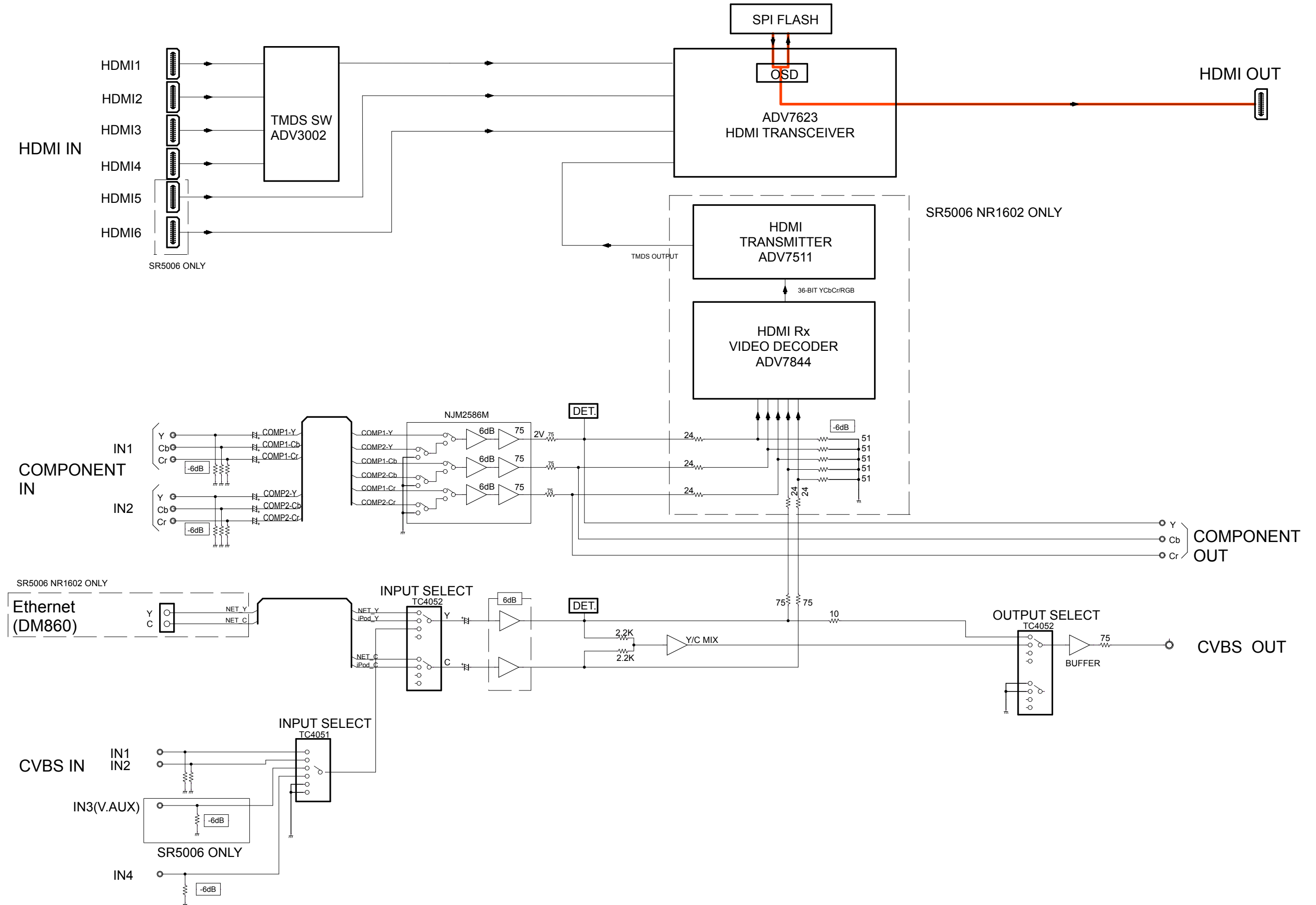


fig.4

VIDEO BLOCK DIAGRAM

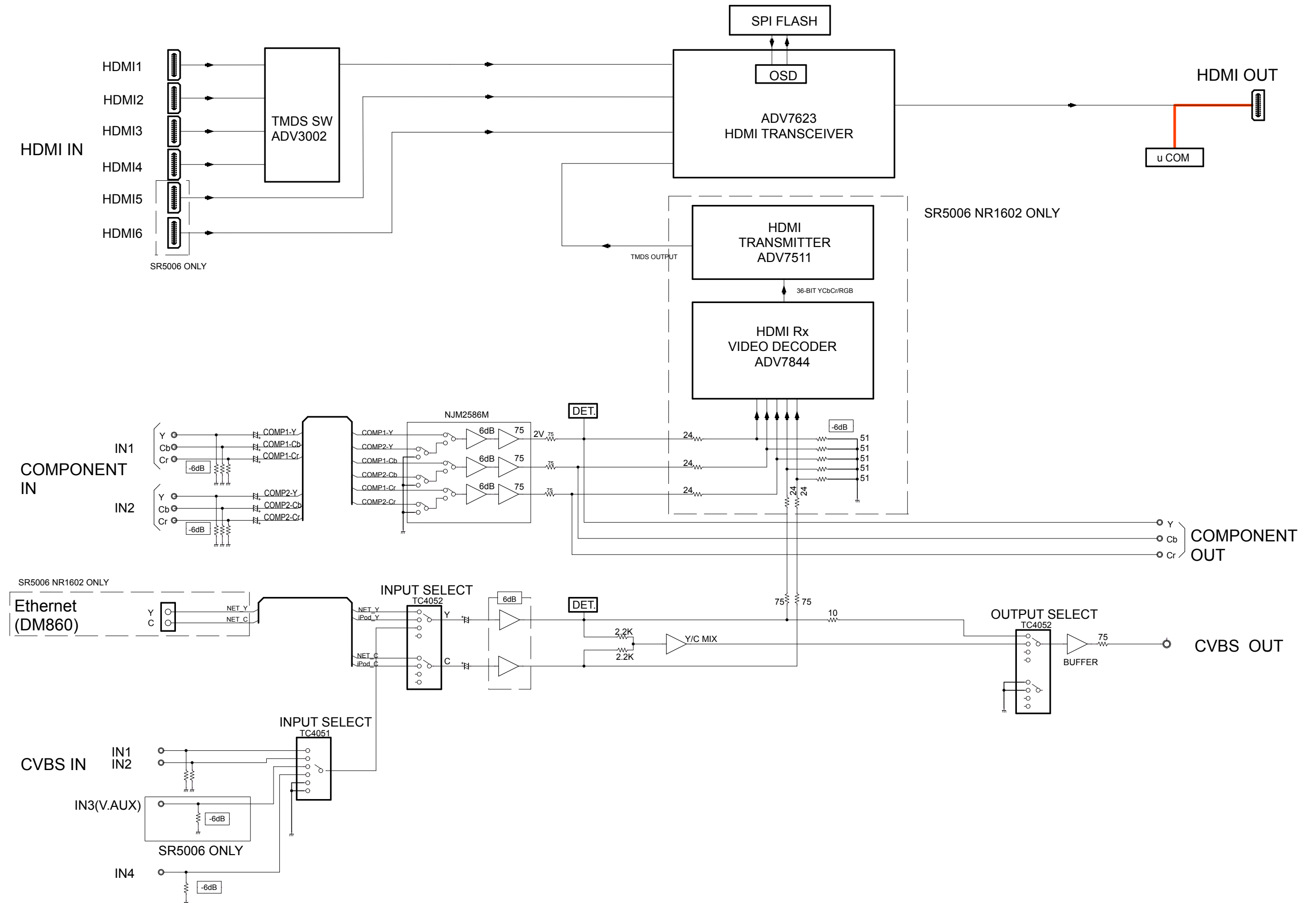


fig.5

AUDIO BLOCK DIAGRAM

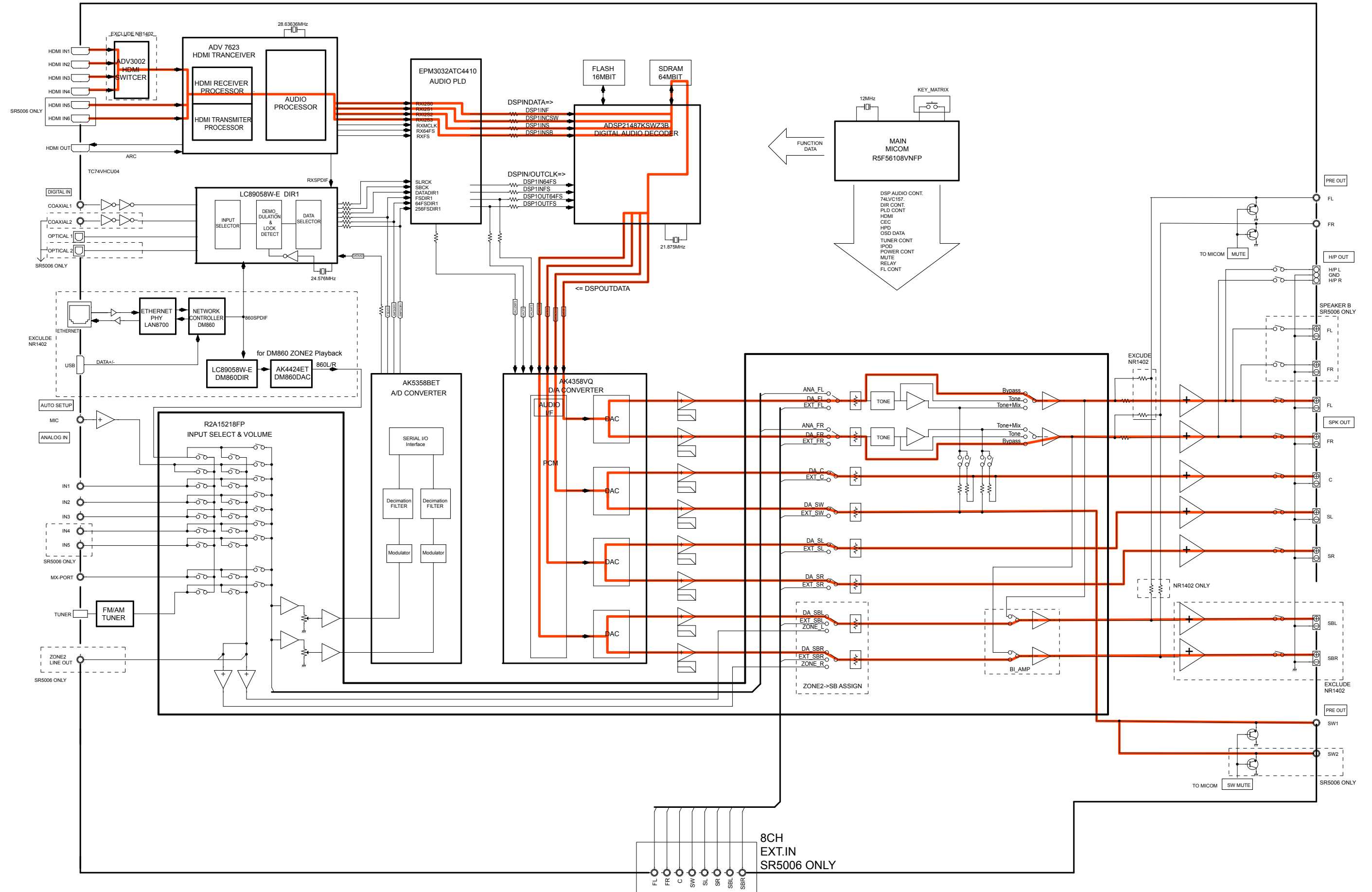


fig.6

AUDIO BLOCK DIAGRAM

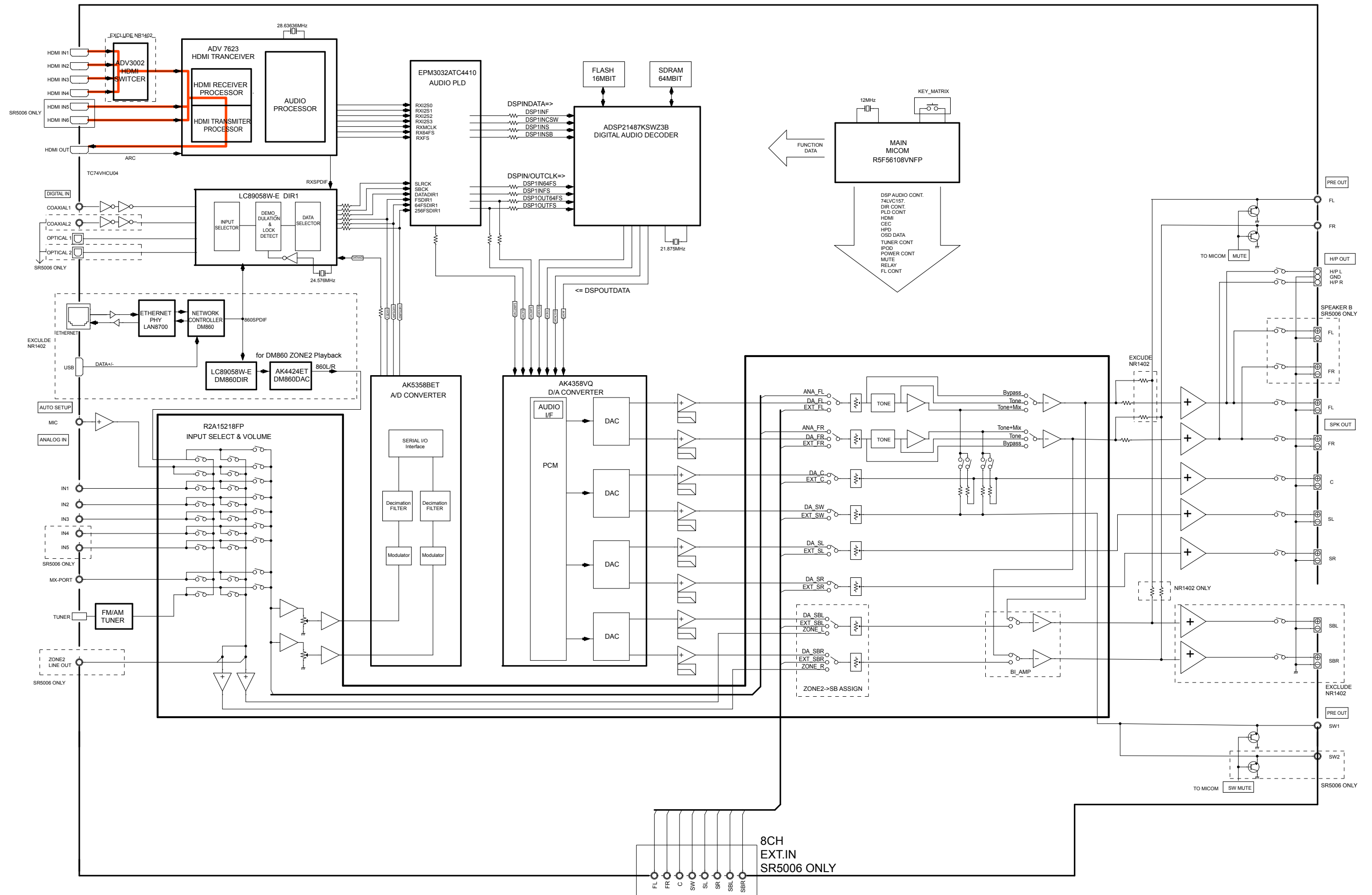


fig.7

AUDIO BLOCK DIAGRAM

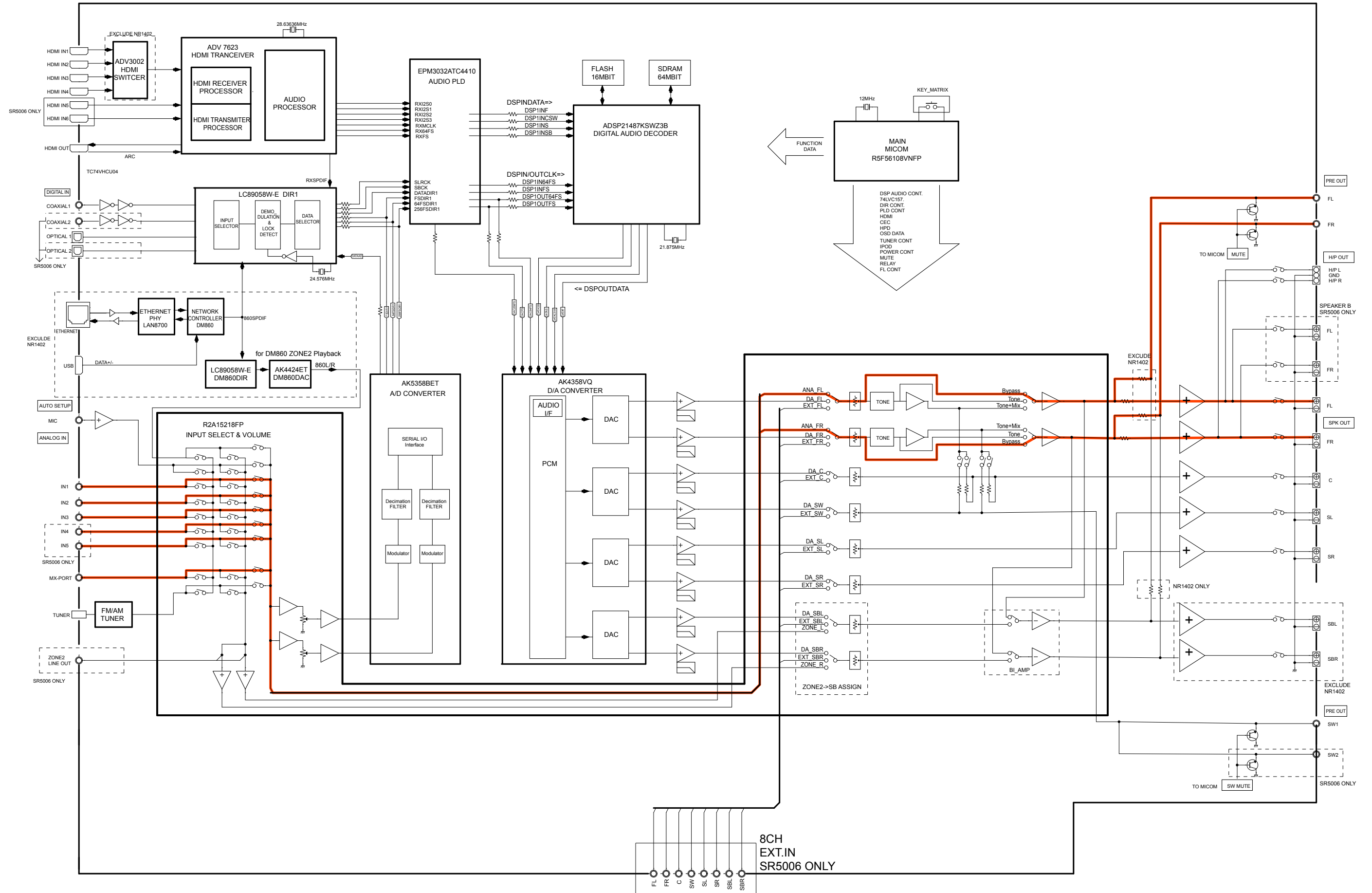


fig.8

AUDIO BLOCK DIAGRAM

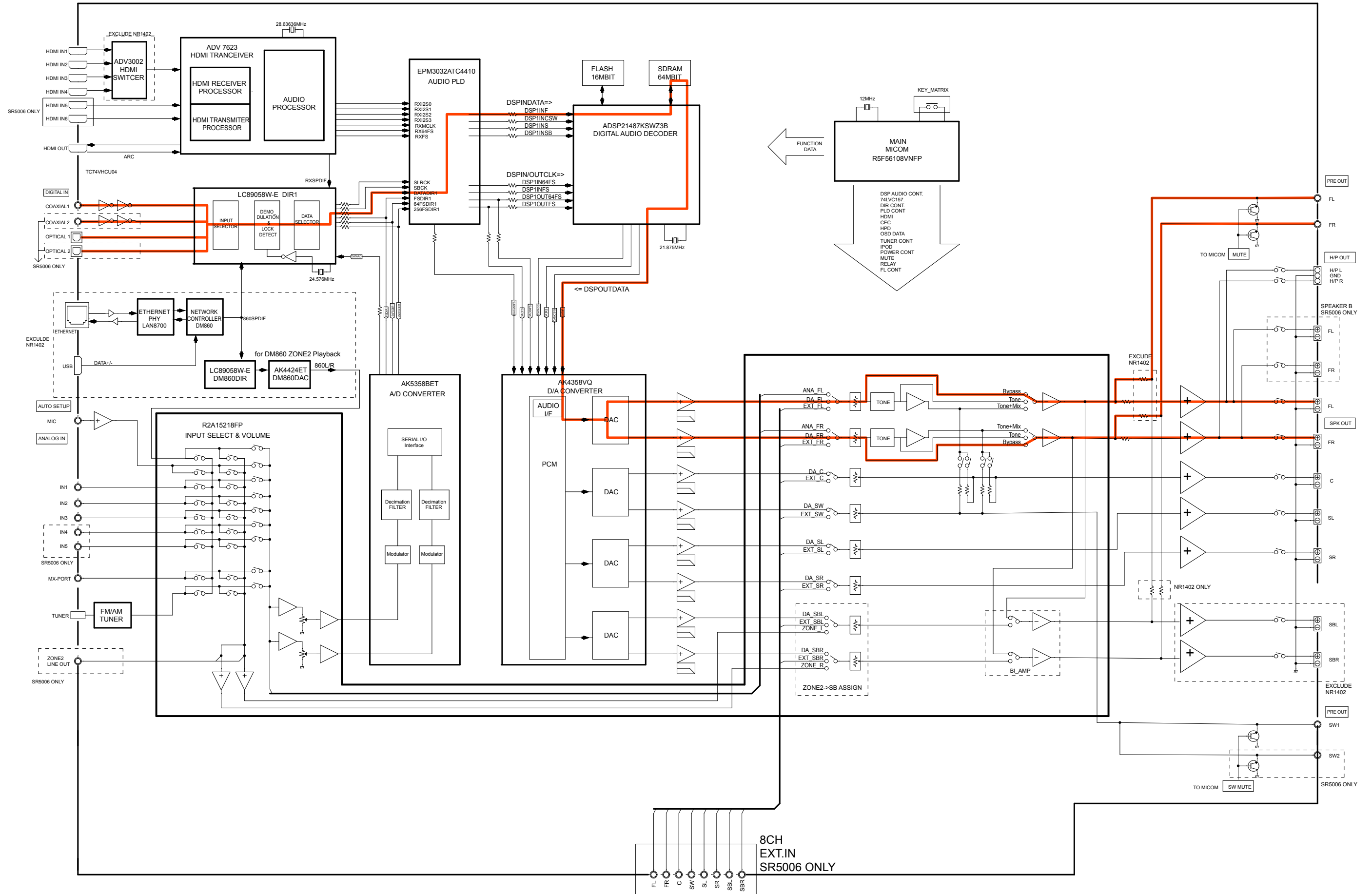


fig.9

AUDIO BLOCK DIAGRAM

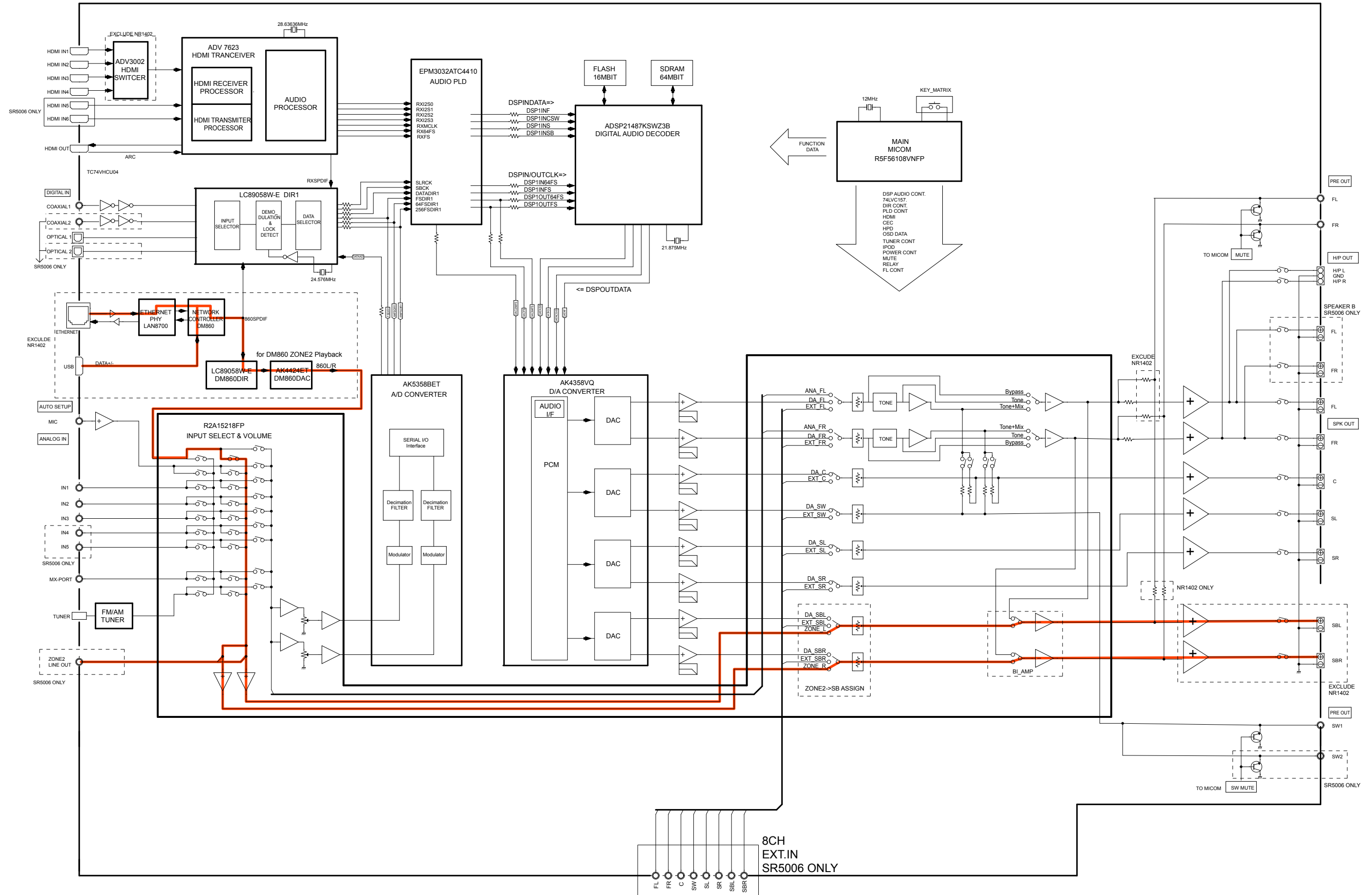


fig.10

AUDIO BLOCK DIAGRAM

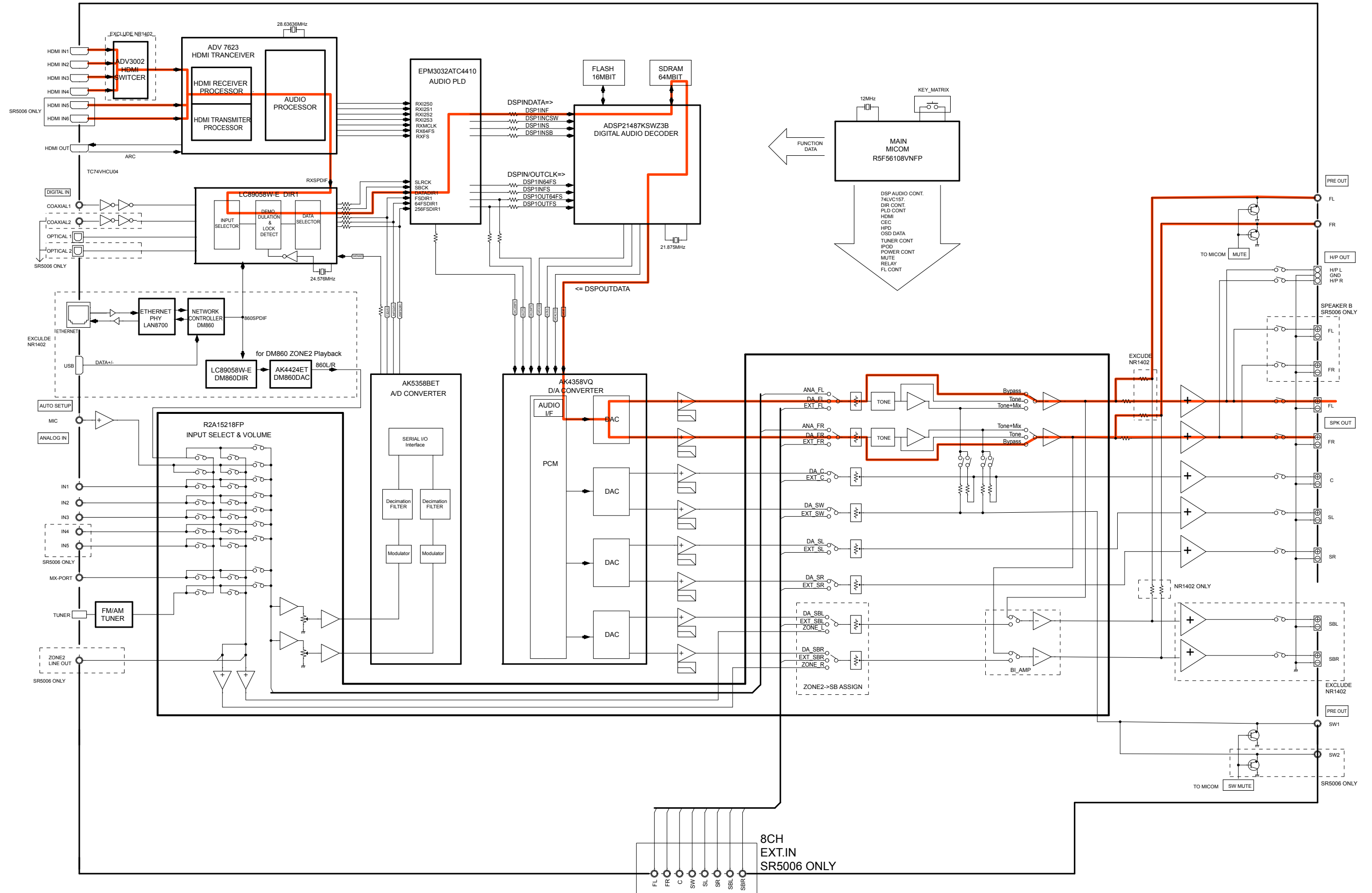


fig.11

AUDIO BLOCK DIAGRAM

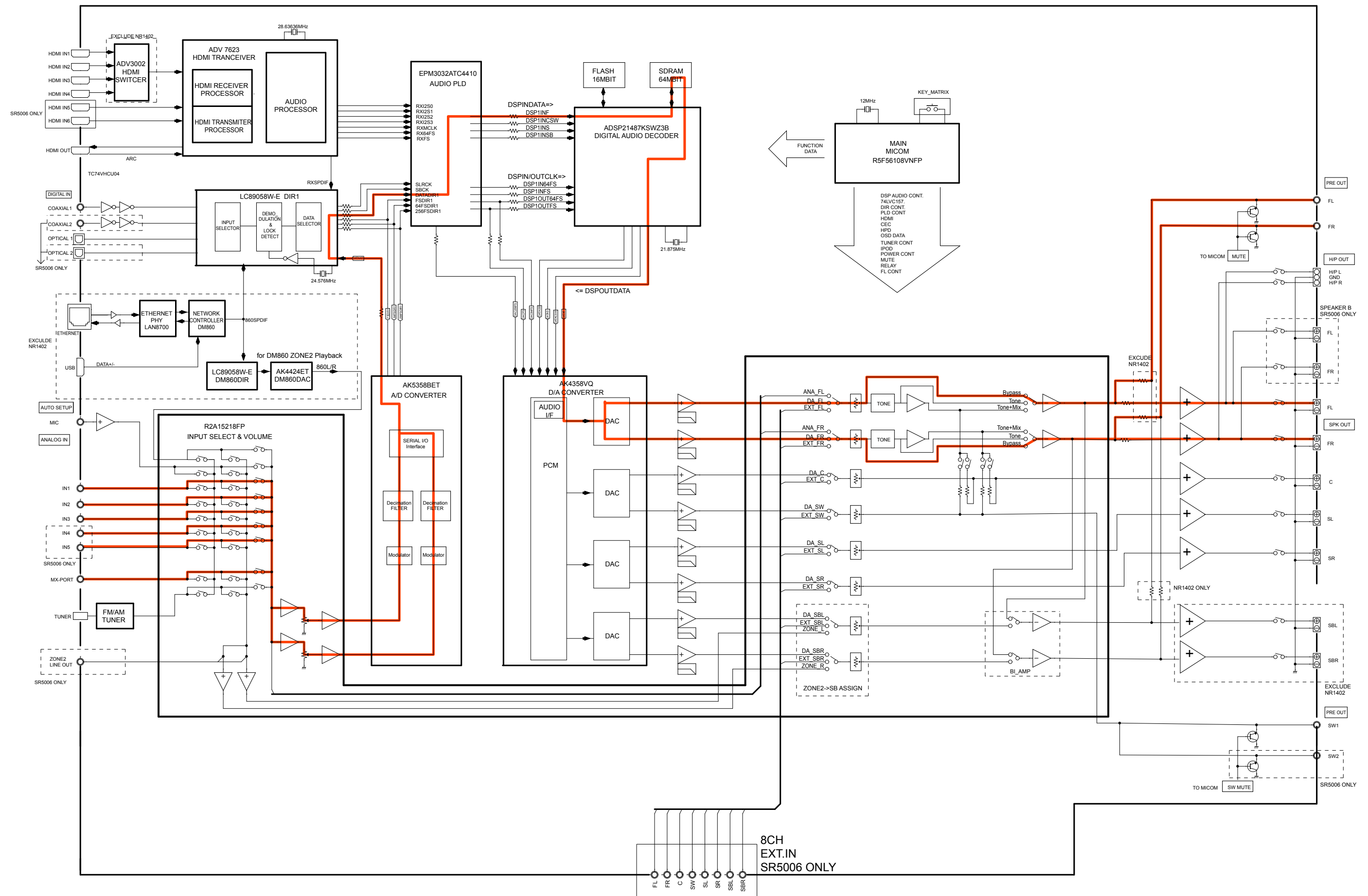


fig.12

AUDIO BLOCK DIAGRAM

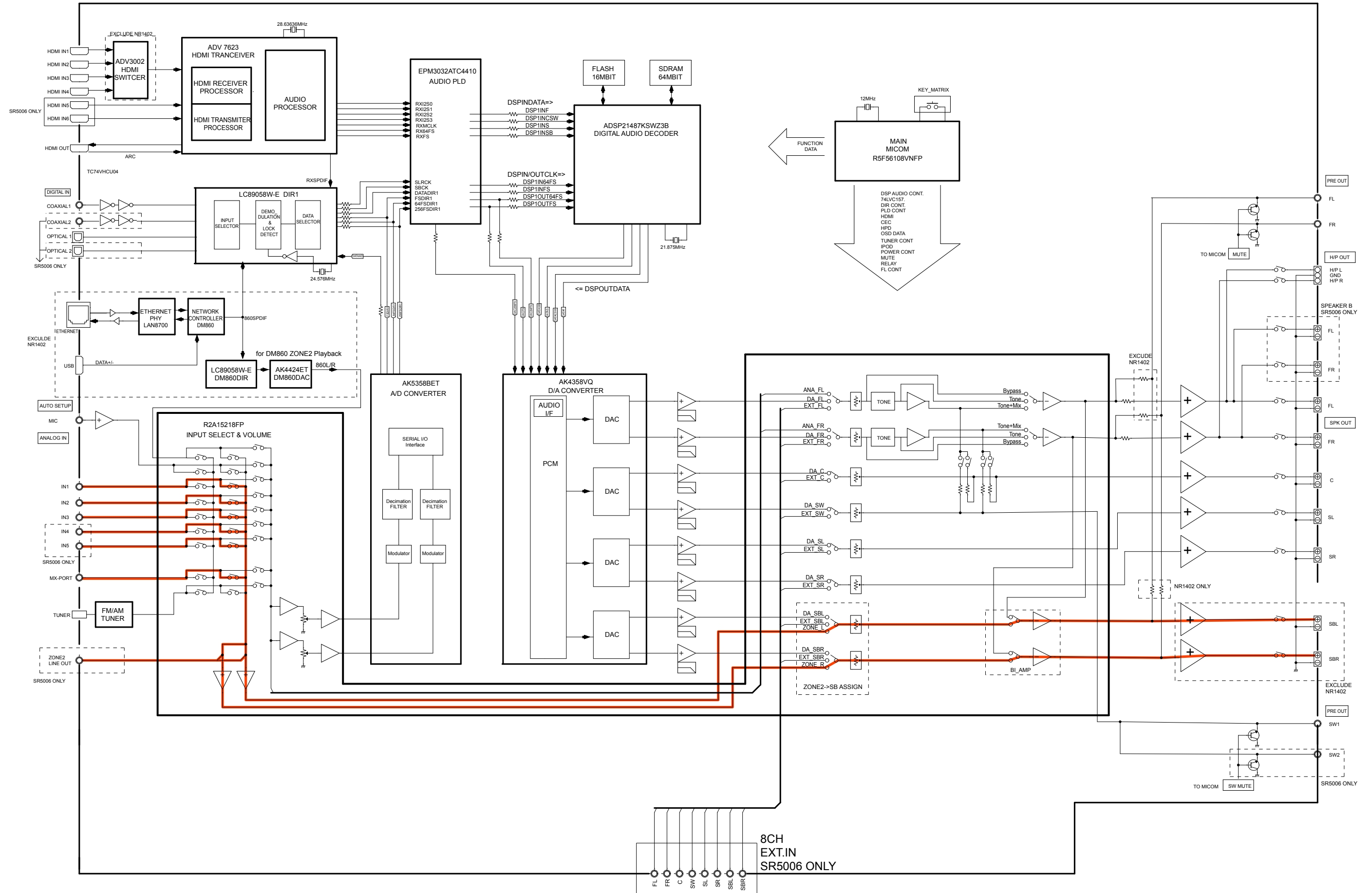


fig.13

AUDIO BLOCK DIAGRAM

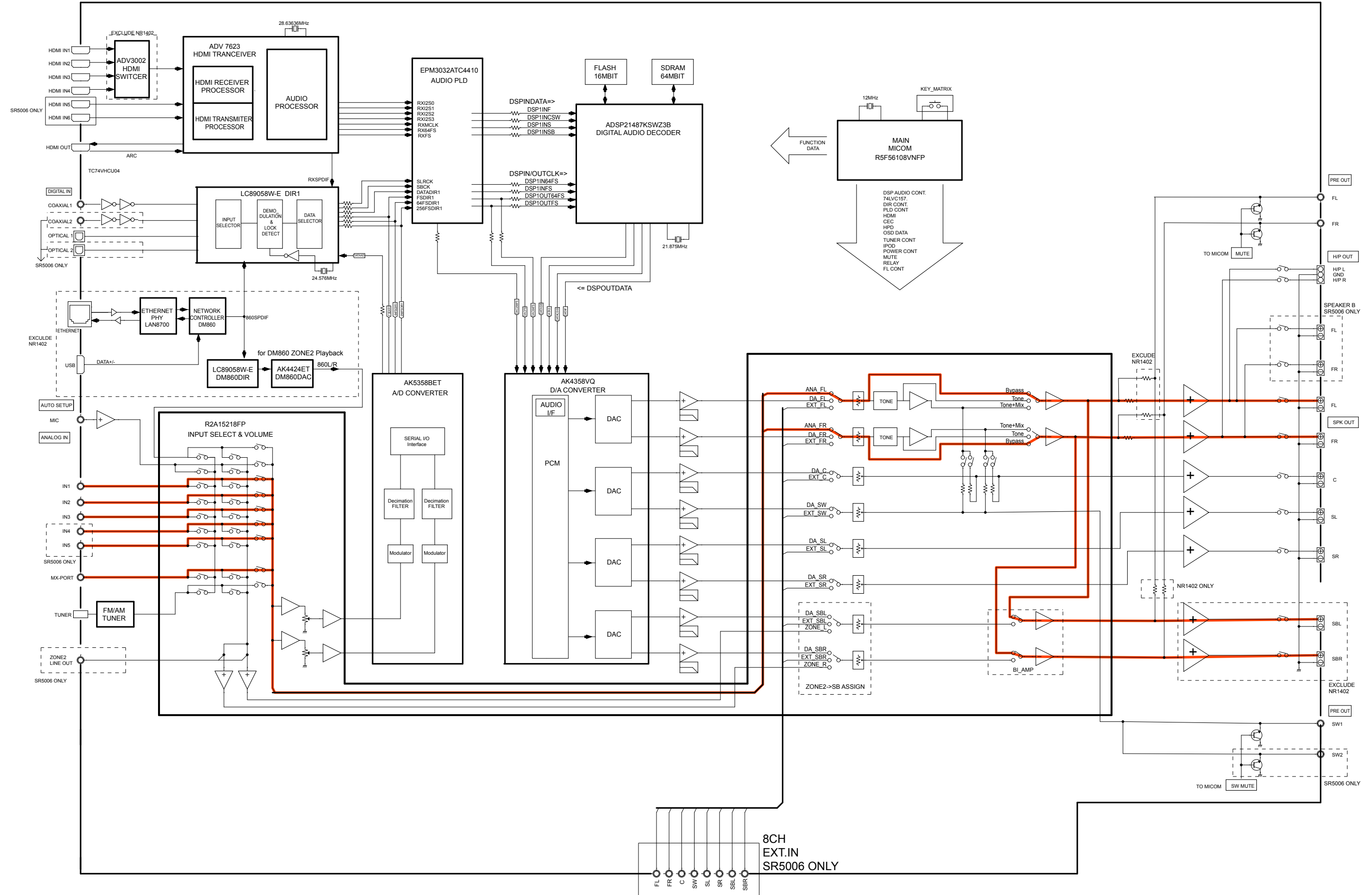


fig.14

AUDIO BLOCK DIAGRAM

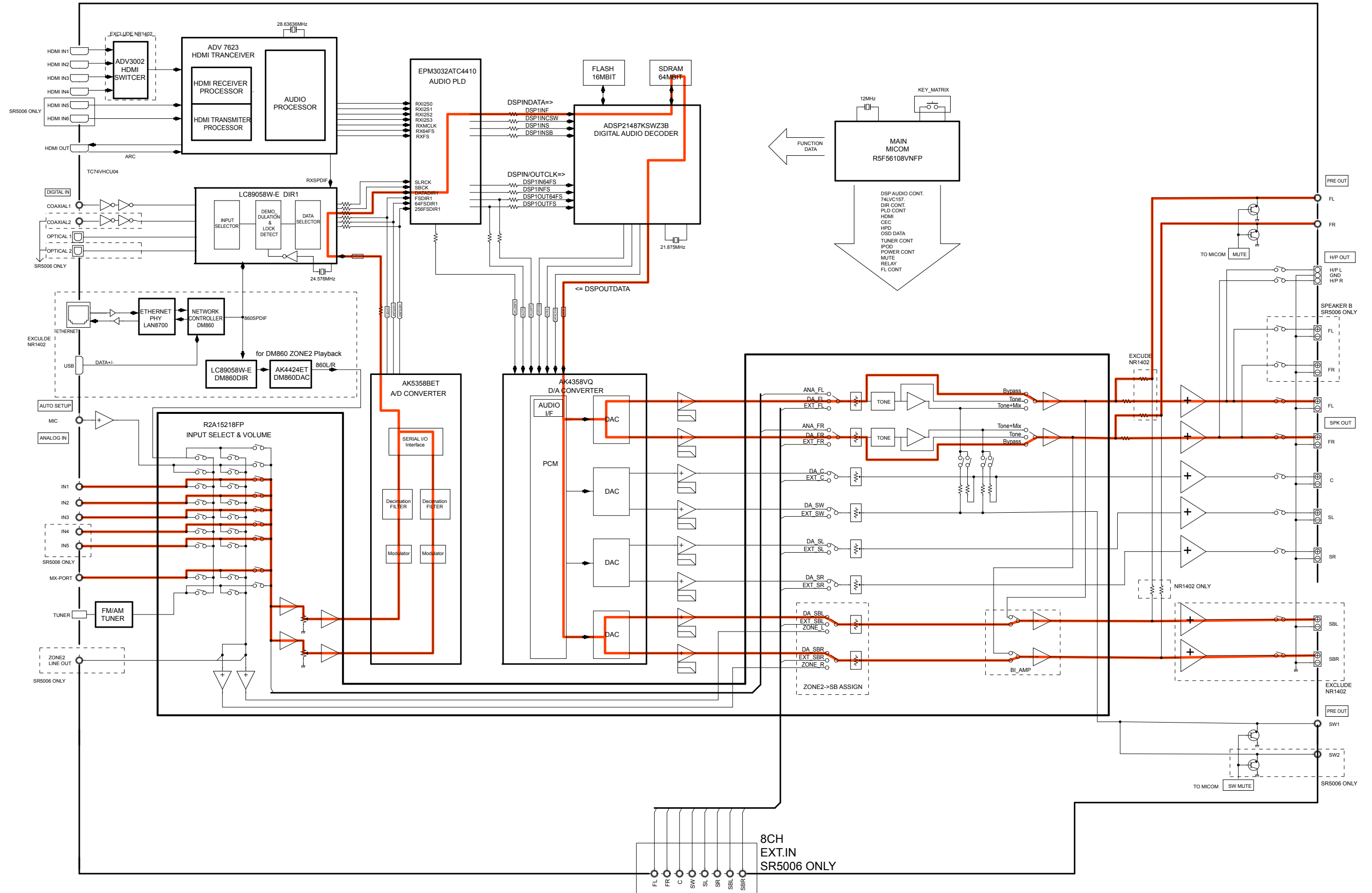
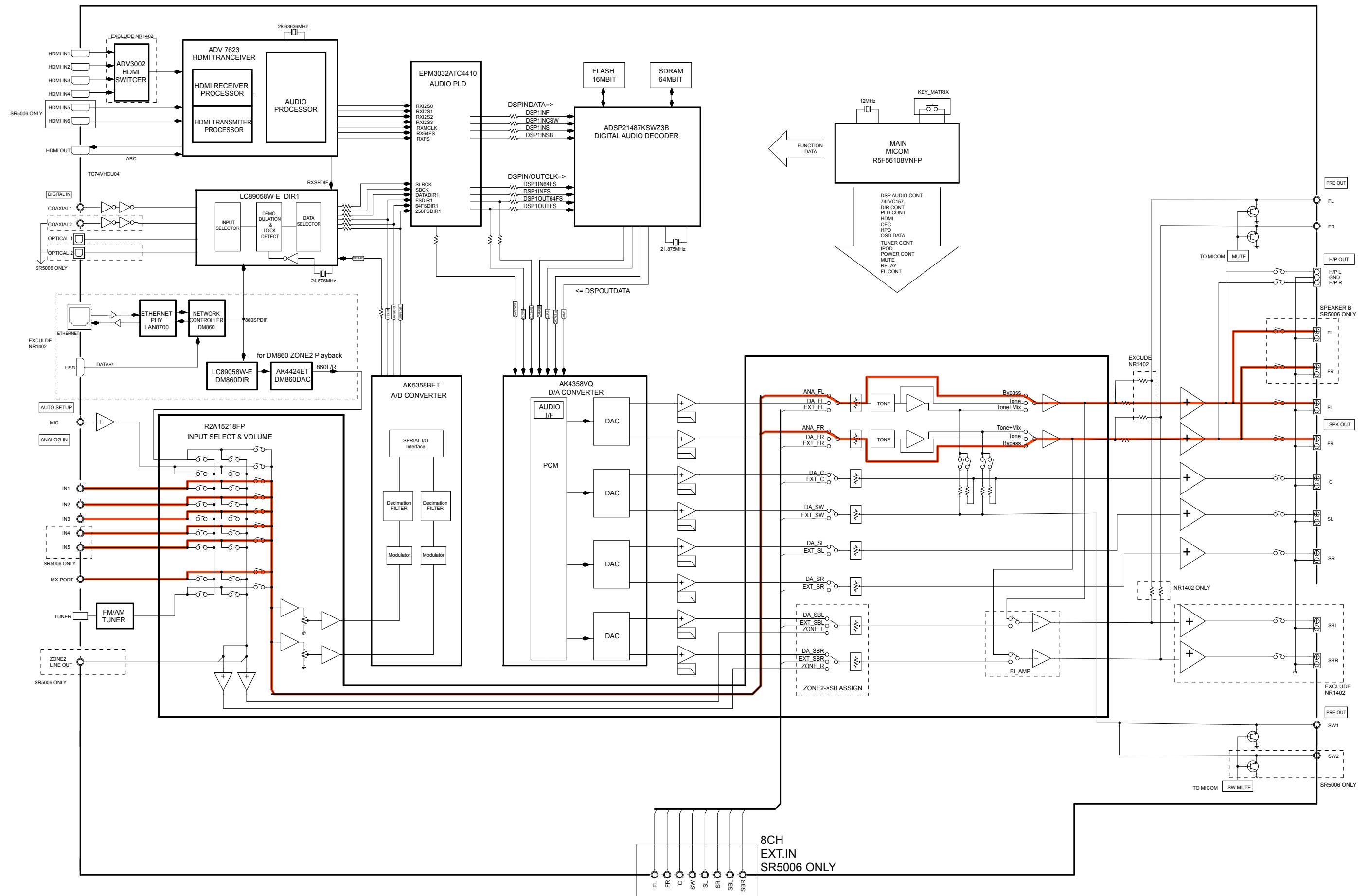
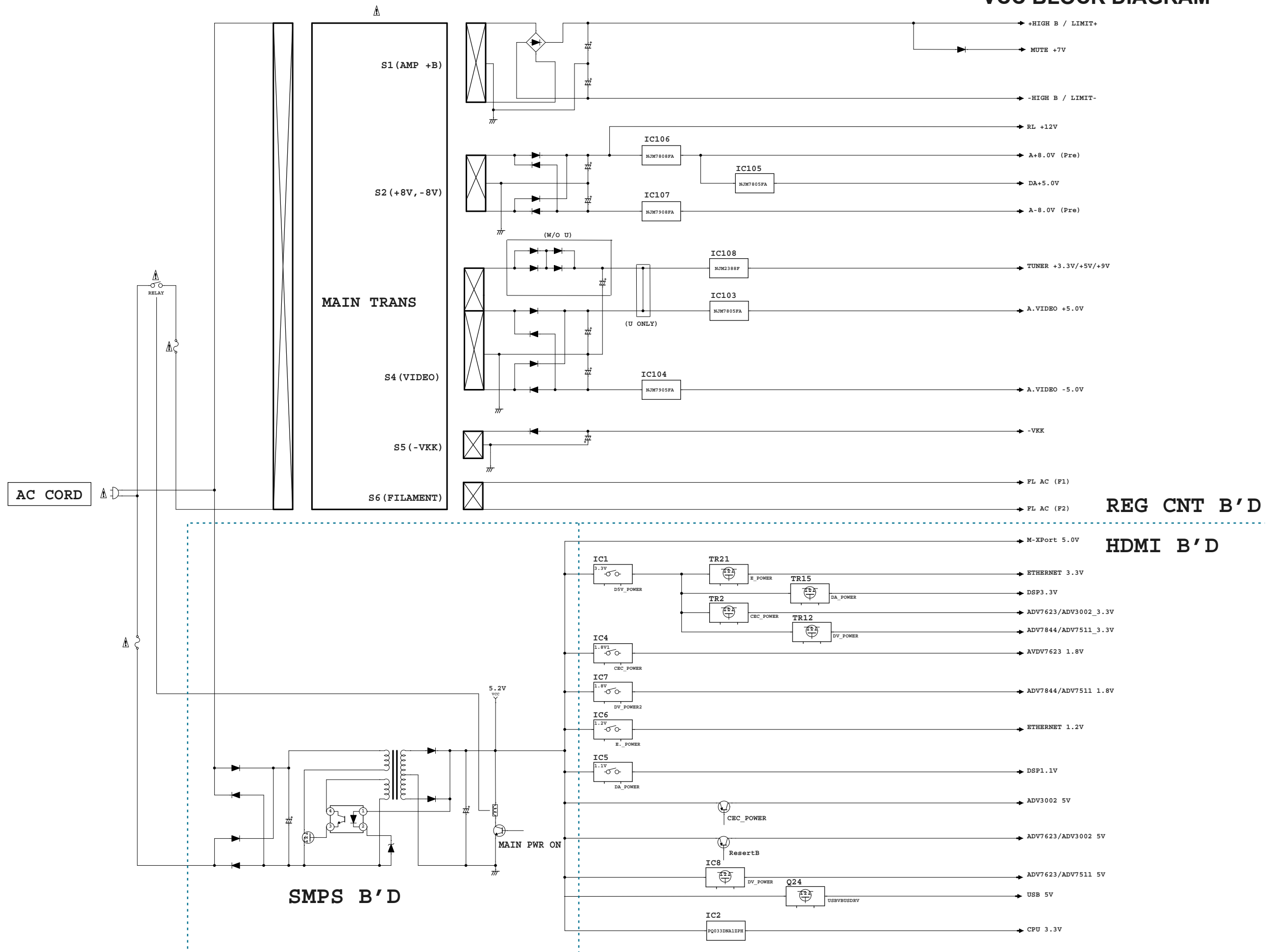


fig.15

AUDIO BLOCK DIAGRAM



VCC BLOCK DIAGRAM



[illegible][illegible]

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 : 1 Set

• Connection of PCB HDMI JIG

-Preparation-

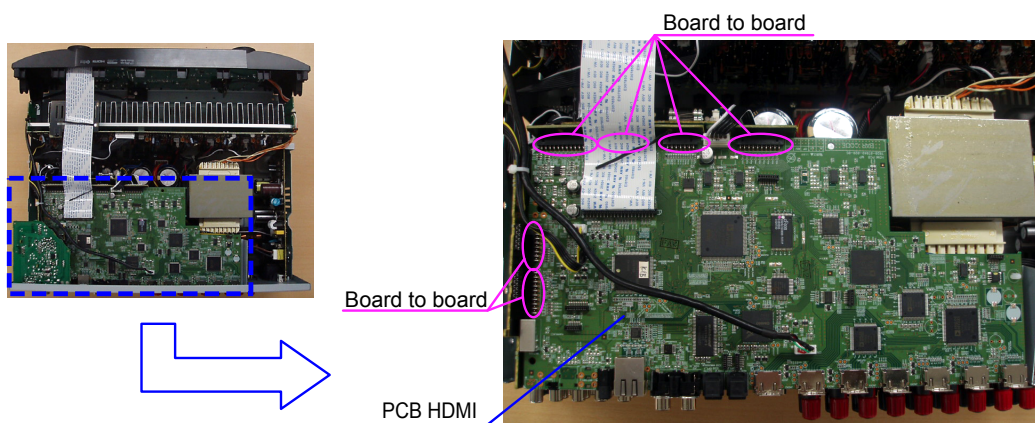
8U-110084S : EXTENSION UNIT KIT : 1 Set
Insulation sheet (Do not supply it) : 1 sheet
Ground lead (Do not supply it) : 1 pc

-Procedures-

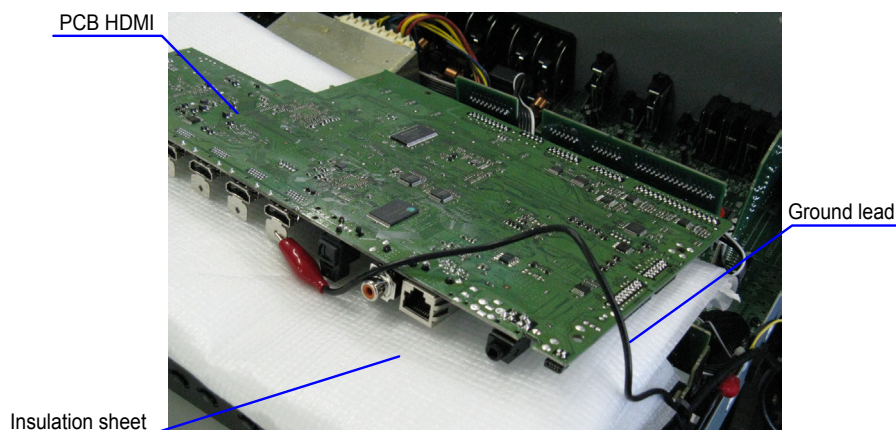
(1) Remove the screws.



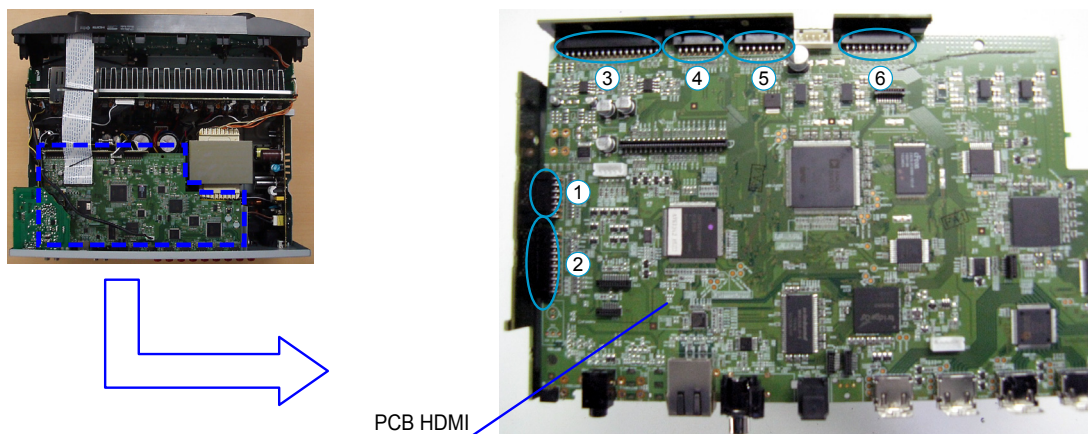
(2) Disconnect the connector board.



(3) Detach PCB HDMI is detached 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	13 pin	CP3	SIDE CNT	↔	CN3	HDMI
②	19 pin	CP5	SIDE CNT	↔	CN5	HDMI
③	33 pin	CP11	FRONT CNT	↔	CN2	HDMI
④	13 pin	CP10	FRONT CNT	↔	CN6	HDMI
⑤	13 pin	CP9	FRONT CNT	↔	CN7	HDMI
⑥	19 pin	CP8	FRONT CNT	↔	CN4	HDMI

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	IC41	R5F56108VNFP	B	SOFTWARE: Main
HDMI	U7	EN29LV160BB-70TIP	B	SOFTWARE: DSP ROM
HDMI	IC22	EPM3032A-TC44	B	SOFTWARE: AUDIO PLD
HDMI	IC11	MX25L3206EM2I-12G	B	SOFTWARE: OSD ROM (U model)
HDMI	IC11	MX25L6406EM2I-12G	B	SOFTWARE: OSD ROM (N,K model)
HDMI	IC18	H27U1G8F2BTR	B	SOFTWARE: DM860 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

NOTE: When the following are replaced, always rewrite with updated firmware using DFW. (Refer to parts list of "PCB HDMI ASS'Y" (186 page)

- PCB HDMI ASSY
- IC11 (MX25L3206EM2I-12G/MX25L6406EM2I-12G)
- IC18 (H27U1G8F2BTR)
- IC22 (EPM3032A-TC44)
- IC41 (R5F64169DFDFP)
- U7 (EN29LV160BB-70TIP)

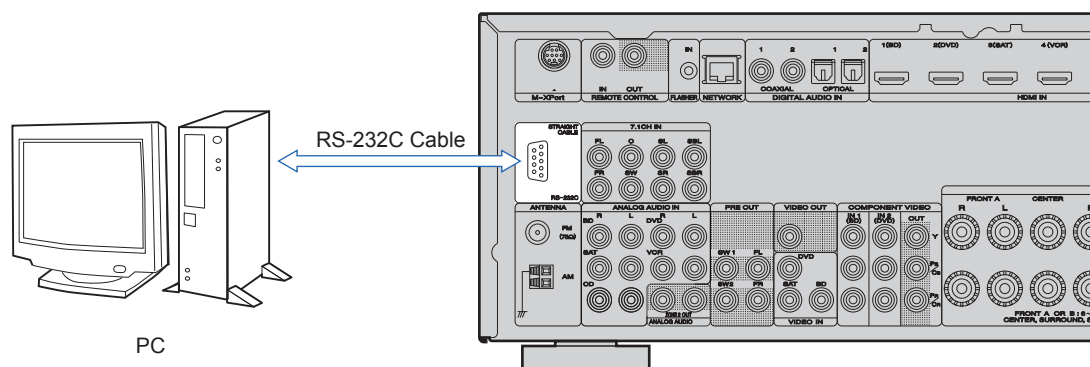
1. How to update by DFW

1.1. Preparations before starting the operation

- (1) Personal Computer (Installed "DFW_0009_SR5006_(Rev.X.X.X).exe".
- (2) RS-232 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 "NET/USB" button and the "INTERNET RADIO" button of the front panel.
- (2) Confirm the power indicator is green and "WRITTING" is displayed in the front panel.

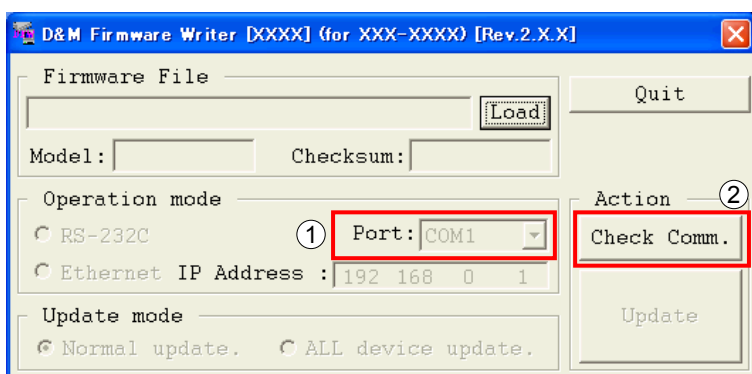
1.4. Run the DFW

Run the "DFW_0009_SR5006_(Rev.X.X.X).exe" on desktop of PC.

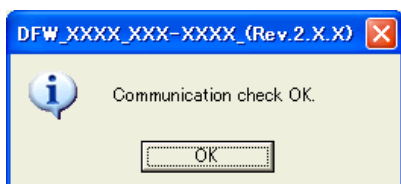


1.5. Communication check

- (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.

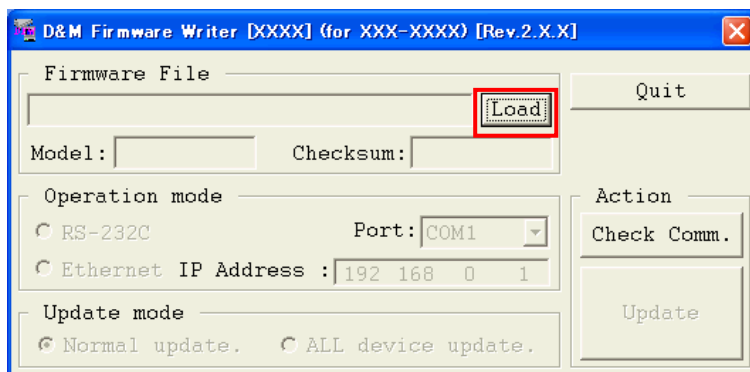


Please confirm the following

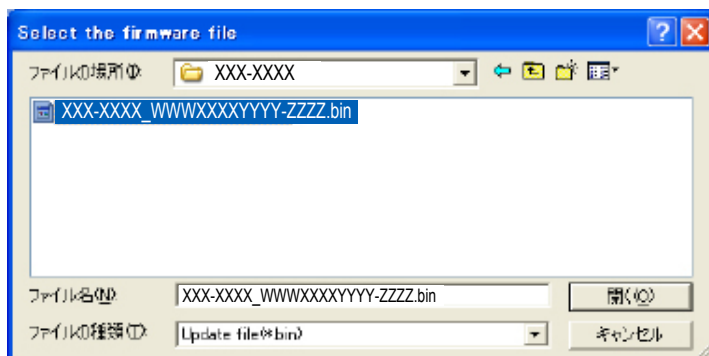
- (a) Check the connection of the AV receiver and PC. (refer to "1.2. Connection of the AV receiver")
- (b) Check the operation mode of the AV receiver. (refer to "1.3. Turn on the AV receiver")
- (c) Check the selection of the RS-232C port number of PC.

1.6. Download the firmware

- (1) Click the "Load" button.

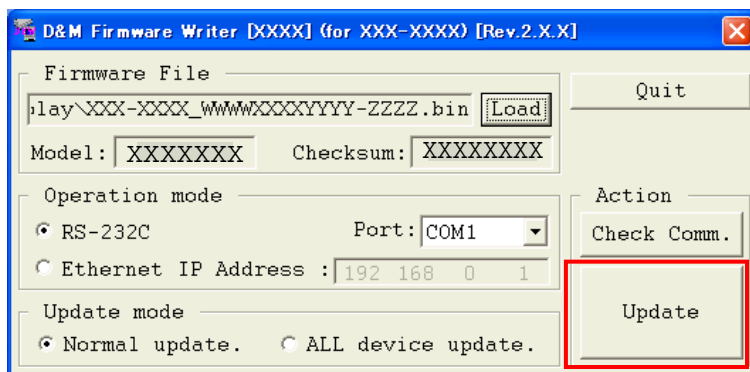


- (2) Download the firmware from the specified download source to PC.

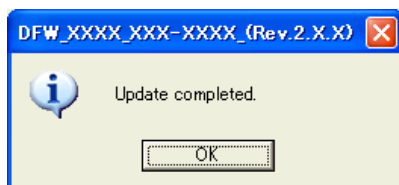


1.7. Complete the firmware updating

- (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. **µcom/DSP Version display mode**" (19 page).

2. How to update by DPMS

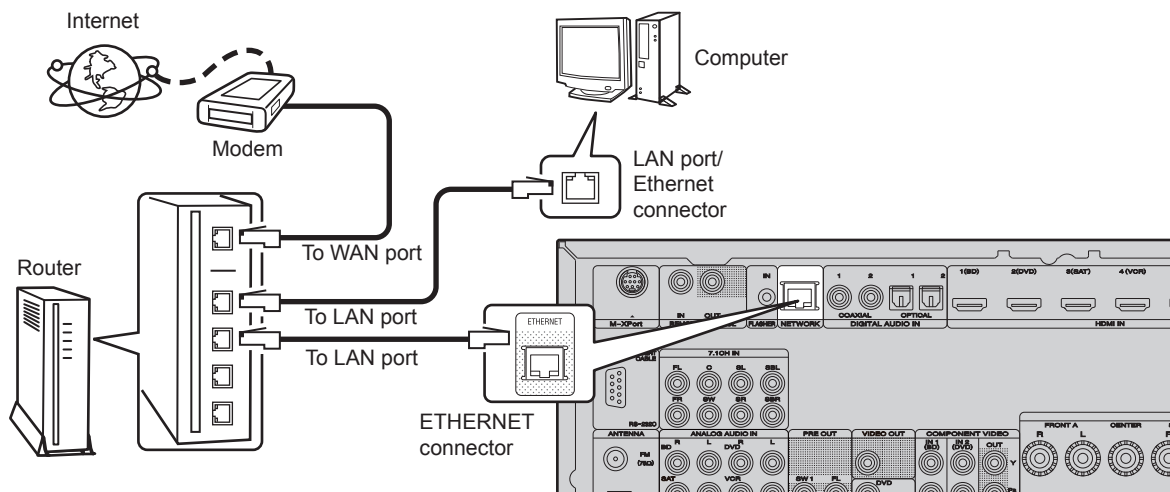
You can update the firmware by downloading the latest version from the Internet.

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 MENU button on the remote control to display the GUI menu.
- (2) Use the cursor buttons to select "System Setup" → "Option Setup" → "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 MENU button to close the menu.
- (4) Use the cursor buttons to select "Update", then press the ENTER button.
 - During update, the power indicator lights in red and the GUI screen disappears. And an approximately remaining time is indicated on the display.
 - When updating is complete the power indicator lights in green and normal status is resumed.

--- Cautions on Firmware Update ---

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

Once updating starts, normal operations on the SR5006 cannot be performed until updating is completed. Also, setting items of the GUI menu of SR5006 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.

Error Code	Details of Error code	Display (Eight digits or more are the scrolling displays.)	Coping strategies
01	Log-in to DPMS failed.	Log in 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.	ConnectionFailed 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.	ConnectionFailed 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.	ConnectionFailed 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.	ConnectionFailed 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.	ConnectionFailed 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.	ConnectionFailed 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.	ConnectionFailed 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.	Download failed 0A	Check the network connection. Carry out the update in an environment that has little network load.
0B	Error (line congestion) message was received when firmware of Main CPU was downloaded.	Download failed 0B	Check the network connection. Carry out the update in an environment that has little network load.
0C	Error (connection failure) message was received when firmware of Main CPU was downloaded.	Download failed 0C	Check the network connection. Carry out the update in an environment that has little network load.
0D	Received Package Version is wrong.	Download failed 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 failed 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 DM860 (when timed out).	Main CPU Updating failed 10	Turn off and on the power. Updating starts automatically.

Error Code	Details of Error code	Display (Eight digits or more are the scrolling displays.)	Coping strategies
11	Main CPU failed to receive firmware for rewriting sent from DM860 (when an error occurred).	Main 11 Updating Failed	Turn off and on the power. Updating starts automatically.
12	There was invalid data in the firmware for rewriting sent from DM860 to Main CPU (when a Check Sum error occurred).	Main 12 Updating Failed	Turn off and on the power. Updating starts automatically.
13	The deletion of block data failed before Main CPU was rewritten.	Main 13 Erase Failed	Turn off and on the power. Updating starts automatically.
14	The rewriting of block data failed when Main CPU was rewritten.	Main 14 Updating Failed	Turn off and on the power. Updating starts automatically.
15	The data verification was invalid after Main CPU was rewritten.	Main 15 Update CheckNG	Turn off and on the power. Updating starts automatically.
20	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860 (AutoIP).	Connection fail 20	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 DM860 (when timed out).	Connection fail 21	Check the network connection. Carry out the update in an environment that has little network load.
22	Log-in to DPMS failed.	Login failed 22	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.	Server is busy 23	Carry out the update in an environment that has little network load.
24	Connection to DPMS failed.	Connection fail 24	Check the network connection. Carry out the update in an environment that has little network load.
25	Mode change failure of DM860.	Connection fail 25	Reset and update again.
26	Data acquisition failed (timed out) when firmware of Main CPU was downloaded. Received Package Version is wrong.	Download fail 26	Check the network connection. Carry out the update in an environment that has little network load.
27	Mode change failure of DM860. 	Connection fail 27	Reset and update again. 
36	Log-in to DPMS failed when Main CPU was rewritten.	Main 36 Login Failed	Carry out the update in an environment that has little network load.
37	Line, etc., is busy when logging into DPMS when Main CPU was rewritten.	Main 37 Server is busy	Carry out the update in an environment that has little network load.

Error Code	Details of Error code	Display (Eight digits or more are the scrolling displays.)	Coping strategies
38	Connection to DPMS failed when Main CPU was rewritten.	Main CPU 38 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
39	Connection to DPMS timed out when Main CPU was rewritten.	Main CPU 39 Connect failed	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.	Main CPU 3A Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3B	Error (line congestion) message received when downloading firmware when Main CPU was rewritten.	Main CPU 3B Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3C	Error (connection failure) message received when downloading firmware when Main CPU was rewritten.	Main CPU 3C Download failed	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 DM860 (AutoIP).	Main CPU 3D Connect failed	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 DM860 (when timed out).	Main CPU 3E Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
50	Log-in to DPMS failed when firmware such as DSP and PLD was rewritten.	DSP 50 Log in failed	Carry out the update in an environment that has little network load.
51	Line, etc., is busy when the log-in to DPMS when firmware such as DSP and PLD was rewritten.	DSP 51 Server is busy	Carry out the update in an environment that has little network load.
52	Connection to DPMS failed when firmware such as DSP and PLD was rewritten.	DSP 52 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
54	Error message received regarding firmware data after the log-in to DPMS when firmware such as DSP and PLD was rewritten.	DSP 54 Updating failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
55	When firmware such as DSP and PLD was rewritten, request was made for firmware data after the log-in to DPMS, but it timed out.	DSP 55 Updating failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
56	Downloading firmware failed after the log-in to DPMS when firmware such as DSP and PLD was rewritten.	DSP 56 Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
57	Firmware download error received (line congestion) after the log-in to DPMS when firmware such as DSP and PLD was rewritten.	DSP 57 Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.

Error Code	Details of Error code	Display (Eight digits or more are the scrolling displays.)	Coping strategies
58	Firmware download error received (connection failure) after the log-in to DPMS when firmware such as DSP and PLD was rewritten.	DSP 58 Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
5A	NACK was received when "C" command sent to DSP, PLD etc.	DSP 5A Connect failed	Turn off and on the power. Updating starts automatically.
5B	NACK was received when "L" command sent to DSP, PLD etc.	DSP 5B Updating failed	Turn off and on the power. Updating starts automatically.
5C	DSP, PLD etc. failed to receive firmware for rewriting sent from DM860 (when timed out).	DSP 5C Updating failed	Turn off and on the power. Updating starts automatically.
5D	DSP, PLD etc. failed to receive firmware for rewriting sent from DM860 (when an error occurred).	DSP 5D Updating failed	Turn off and on the power. Updating starts automatically.
5E	Data in firmware such as DSP and PLD for rewriting sent from DM860 was invalid (when a Check Sum error occurred).	DSP 5E Updating failed	Turn off and on the power. Updating starts automatically.
5F	Invalid data in firmware such as DSP and PLD for rewriting sent from DM860 was invalid (invalid data was received).	DSP 5F Updating failed	Turn off and on the power. Updating starts automatically.
60	NACK was received when "P" command sent to DSP, PLD etc.	DSP 60 Updating failed	Turn off and on the power. Updating starts automatically.
61	NACK was received when "I" command sent to DSP, PLD etc.	DSP 61 Update CheckNG	Turn off and on the power. Updating starts automatically.
80	Acquisition of serial flash data failed before serial flash was deleted.	OSD 80 Updating failed	Turn off and on the power. Updating starts automatically.
81	Deleting data failed before serial flash was rewritten.	OSD 81 Updating failed	Turn off and on the power. Updating starts automatically.
82	Receiving firmware for rewriting serial flash sent by DM860 failed (when timed out).	OSD 82 Updating failed	Turn off and on the power. Updating starts automatically.
83	Receiving firmware for rewriting serial flash sent by DM860 failed (when an error).	OSD 83 Updating failed	Turn off and on the power. Updating starts automatically.
84	Receiving firmware for rewriting serial flash sent by DM860 failed (when a Check Sum error).	OSD 84 Updating failed	Turn off and on the power. Updating starts automatically.

Error Code	Details of Error code	Display (Eight digits or more are the scrolling displays.)	Coping strategies
85	Receiving firmware for rewriting serial flash sent by DM860 failed (when invalid data was received).	OSD 85 Updating failed	Turn off and on the power. Updating starts automatically.
86	The data verification was invalid after serial flash was rewritten.	OSD 86 Updating failed	Turn off and on the power. Updating starts automatically.
A0	Acquisition of (Application Mode) IP address failed before DM860 was rewritten (AutoIP).	EIMG A0 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
A1	Acquisition of (Application Mode) IP address failed before DM860 was rewritten (when timed out).	EIMG A1 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
A2	Invalid login via DPMS access was notified when DM860 related firmware was rewritten (Application Mode).	EIMG A2 Login failed	Check the network connection. Carry out the update in an environment that has little network load.
A3	Line congestion via DPMS access was notified when DM860 related firmware was rewritten (Application Mode).	EIMG A3 Server is busy	Check the network connection. Carry out the update in an environment that has little network load.
A4	Connection failure via DPMS access was notified when DM860 related firmware was rewritten (Application Mode).	EIMG A4 Connect failed	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 DM860 related firmware was rewritten (Application Mode).	EIMG A6 Updating failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
A7	When DM860 related firmware was rewritten (Application Mode), request was made for firmware data after DPMS login but it timed out.	EIMG A7 Updating failed	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 DM860 related firmware was rewritten (Boot Loader Mode).	EIMG AE Download failed	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 DM860 related firmware was rewritten (Boot Loader Mode).	EIMG AF Download failed	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 DM860 related firmware was rewritten (Boot Loader Mode).	EIMG B0 Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B1	DM860 related firmware download error message. (Timeout failure)	EIMG B1 Download failed	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 DM860 related firmware was rewritten.	EIMG B2 Updating failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.

Error Code	Details of Error code	Display (Eight digits or more are the scrolling displays.)	Coping strategies
B3	Firmware writing error message. (Timeout failure)		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B4	Mode change failure of DM860. (Boot Loader Mode)		Reset and update again.
B5	Mode change failure of DM860. (Application Mode)		Reset and update again.

Device display during firmware update

Display of target device during firmware update.

Target device	Display	Error code when an error occurs
Main		08 - 0C 10 - 15 22 - 24 36 - 3E
Audio PLD		50 - 52 54 - 58 5A - 61
DSP		50 - 52 54 - 58 5A - 61
OSD Serial Flash		50 - 52 54 - 58 5A - 61 80 - 86
DM860 Boot Loader		A0 - A4 A6 - A7 AE - B5
DM860 Image		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" (19 page).

ADJUSTMENT

Audio Section

Adjusting Idling Current

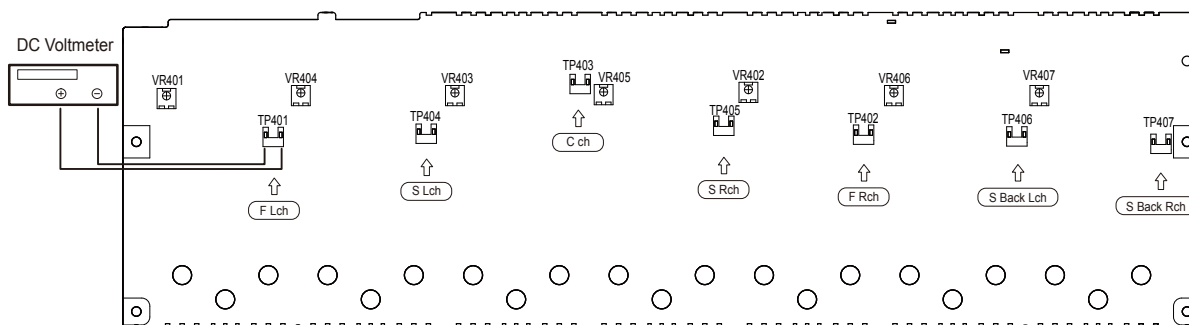
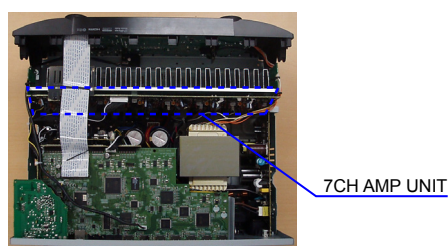
Required measurement equipment: DC Voltmeter

1. Preparation

- (1) Temperature should be at avoid direct blow from an air conditioner or an electric fan and humidity should be moderate, and place the set at normal usage environment.
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 the top cover and set VR401, VR402, VR403, VR404, VR405, VR406, VR407 on at fully 7CH AMP UNIT at fully counterclockwise (↺) position.
- (2) Connect DC Voltmeter to test points (FRONT-Lch: TP401, FRONT-Rch: TP402, CENTER ch: TP403, SURROUND-Lch: TP404, SURROUND-Rch: TP405, SURROUND-BACK Lch: TP406, SURROUND-BACK Rch: TP407).
- (3) Connect the power cord to AC Line, and set the power switch to "ON".
- (4) Presetting.
 - MASTER VOLUME : "----" counterclockwise (↺ 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 VR401 clockwise (↻) to adjust the TEST POINT voltage to $2.0\text{mV} \pm 0.5\text{mV DC}$.
- (6) After 10 minutes from the preset above, turn VR401 to set the voltage to $3.0\text{mV} \pm 0.5\text{mV DC}$.
- (7) Adjust the Variable Resistors of each channel in the same way.



SURROUND MODES AND PARAMETERS

Surround modes and surround parameters

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

Surround mode	Channel output					Surround Parameter				
	Front L/R	Center	Surround L/R	Surround Back L/R	Front Height L/R	Subwoofer	HT-EQ	DRC #4	D. Comp #5	LFE #6
DIRECT/PURE DIRECT (2channel)*1	○					⊙*3		○	○	
DIRECT/PURE DIRECT (Multi-channel)*1	○	⊙	⊙*2		⊙*2	⊙		○	○	○
STEREO	○					⊙		○	○	○
MULTI CH IN	○	⊙	⊙		⊙	⊙	○			○
DOLBY PRO LOGIC IIz	○	⊙	⊙		⊙	⊙	○	○	○	
DOLBY PRO LOGIC IIx	○	⊙	⊙			⊙	○	○	○	
DOLBY PRO LOGIC II	○	⊙	⊙			⊙	○	○	○	
DTS NEO6	○	⊙	⊙	⊙		⊙	○	○	○	
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.

*2 A signal for each channel contained in an input signal is output as audio.

*3 Only when "Subwoofer Mode" is set to "LFE+Main", sound is output from the subwoofer.

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

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

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

Surround mode	Surr.Parameter					Tone *8	Audyssey Settings*9			M-DAX *12
	Height Gain *7	PRO LOGIC II/IIx Music mode only			NEO:6 Music mode only		Dynamic EQ® *10	Dynamic Volumes® *11		
		Panorama	Dimension	C.Width	C.Image					
DIRECT/PURE DIRECT (2channel)*1										
DIRECT/PURE DIRECT (Multi-channel)*1										
STEREO										
MULTI CH IN	○					○		○	○	○
DOLBY PRO LOGIC IIz	○					○		○	○	○
DOLBY PRO LOGIC IIx		○	○	○		○		○	○	○
DOLBY PRO LOGIC II		○	○	○		○		○	○	○
DTS NEO:6						○		○	○	○
DOLBY DIGITAL	○					○		○	○	
DOLBY DIGITAL Plus	○					○		○	○	
DOLBY TrueHD	○					○		○	○	
DTS SURROUND	○					○		○	○	
DTS 96/24	○					○		○	○	
DTS-HD	○					○		○	○	
DTS Express	○					○		○	○	
MULTI CH STEREO						○		○	○	○
VIRTUAL						○		○	○	○

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

*7 This item can be set when surround mode is "PLIIz" or PLIIz decoder is used.

*8 This item cannot be set when "Dynamic EQ®" is set to "ON".

*9 For HD Audio whose sampling frequency of an input signal is more than 96 kHz, this sound parameter cannot be set.

*10 This item cannot be set when "MultEQ® XT" is set to "OFF" or "Manual".

*11 This item cannot be set when "Dynamic EQ®" is set to "OFF".

*12 This item can be set when the input signal is analog, PCM 48 kHz or 44.1 kHz.

□ Types of input signals, and corresponding surround modes

This table shows the input signal that can be played in each surround mode. Check the audio signal of the input source then select the surround mode.

Symbols in the table

○ This indicates the selectable surround mode.

Surround mode	NOTE	Input signal types and formats														
		ANALOG	PCM		DTS-HD		DTS		DOLBY		DOLBY DIGITAL					
		PCM (multi ch)	PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL EX (5.1/5.4ch/3ch)	DOLBY DIGITAL (2ch)	
DTS SURROUND																
DTS-HD MSTR				○												
DTS-HD HI RES					○											
DTS ES DSCRT6.1	*1*3						○									
DTS ES MTRX6.1	*1*3							○								
DTS SURROUND							○		○							
DTS 96/24										○						
DTS (-HD) + PLIIx MOVIE	*2*3			○	○	○		○	○	○						
DTS (-HD) + PLIIx MUSIC	*1*3			○	○	○		○	○	○						
DTS (-HD) + PLIIz	*4			○	○	○	○	○	○	○						
DTS EXPRESS						○										
DTS (-HD) + NEO:6	*1*3			○	○	○		○	○	○						○
DTS NEO:6 CINEMA		○														○
DTS NEO:6 MUSIC		○														○
DOLBY SURROUND																
DOLBY TrueHD											○					
DOLBY DIGITAL+																
DOLBY DIGITAL EX	*1*3															
DOLBY (D+) (HD) +EX	*1*3											○			○	
DOLBY DIGITAL																
DOLBY (D) (D+) (HD) +PLIIx MOVIE	*2*3												○		○	
DOLBY (D) (D+) (HD) +PLIIx MUSIC	*1*3												○		○	
DOLBY (D) (D+) (HD) +PLIIz	*4												○		○	
DOLBY PRO LOGIC IIX MOVIE	*1*3	○														○
DOLBY PRO LOGIC IIX MUSIC	*1*3	○														○
DOLBY PRO LOGIC IIX GAME	*1*3	○														○
DOLBY PRO LOGIC IIX	*4	○														○
DOLBY PRO LOGIC IIX MOVIE		○														○
DOLBY PRO LOGIC IIX MUSIC		○														○
DOLBY PRO LOGIC IIX GAME		○														○

*1 If "Speaker Config." - "S.Back" is set to "None", this surround mode cannot be selected.

*2 If "Speaker Config." - "S.Back" is set to "1spkr" or "None", this surround mode cannot be selected.

*3 This surround mode can be selected when "Amp Assign" is set to "NORMAL".

*4 If "Speaker Config." - "F.Height" is set to "None", this surround mode cannot be selected.

Surround mode	NOTE	Input signal types and formats													
		ANALOG	PCM		DTS-HD		DTS			DOLBY		DOLBY DIGITAL			
			PCM (multi ch)	PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (5.1/5.4ch/3ch)
MULTI CH IN															
MULTI CH IN															
MULTI CH IN + PLIIx MOVIE	*2*3														
MULTI CH IN + PLIIx MUSIC	*1*3														
MULTI CH IN + PLIIz	*4														
MULTI CH IN + Dolby EX	*1*3														
MULTI CH IN 7.1	*3														
DIRECT		○	○	○	○	○	○	○	○	○	○	○	○	○	○
PURE DIRECT		○	○	○	○	○	○	○	○	○	○	○	○	○	○
MULTI CH STEREO		○	○	○	○	○	○	○	○	○	○	○	○	○	○
VIRTUAL		○	○	○	○	○	○	○	○	○	○	○	○	○	○
STEREO		○	○	○	○	○	○	○	○	○	○	○	○	○	○

*1 If "Speaker Config." – "S.Back" is set to "None", this surround mode cannot be selected.

*2 If "Speaker Config." – "S.Back" is set to "1spkr" or "None", this surround mode cannot be selected.

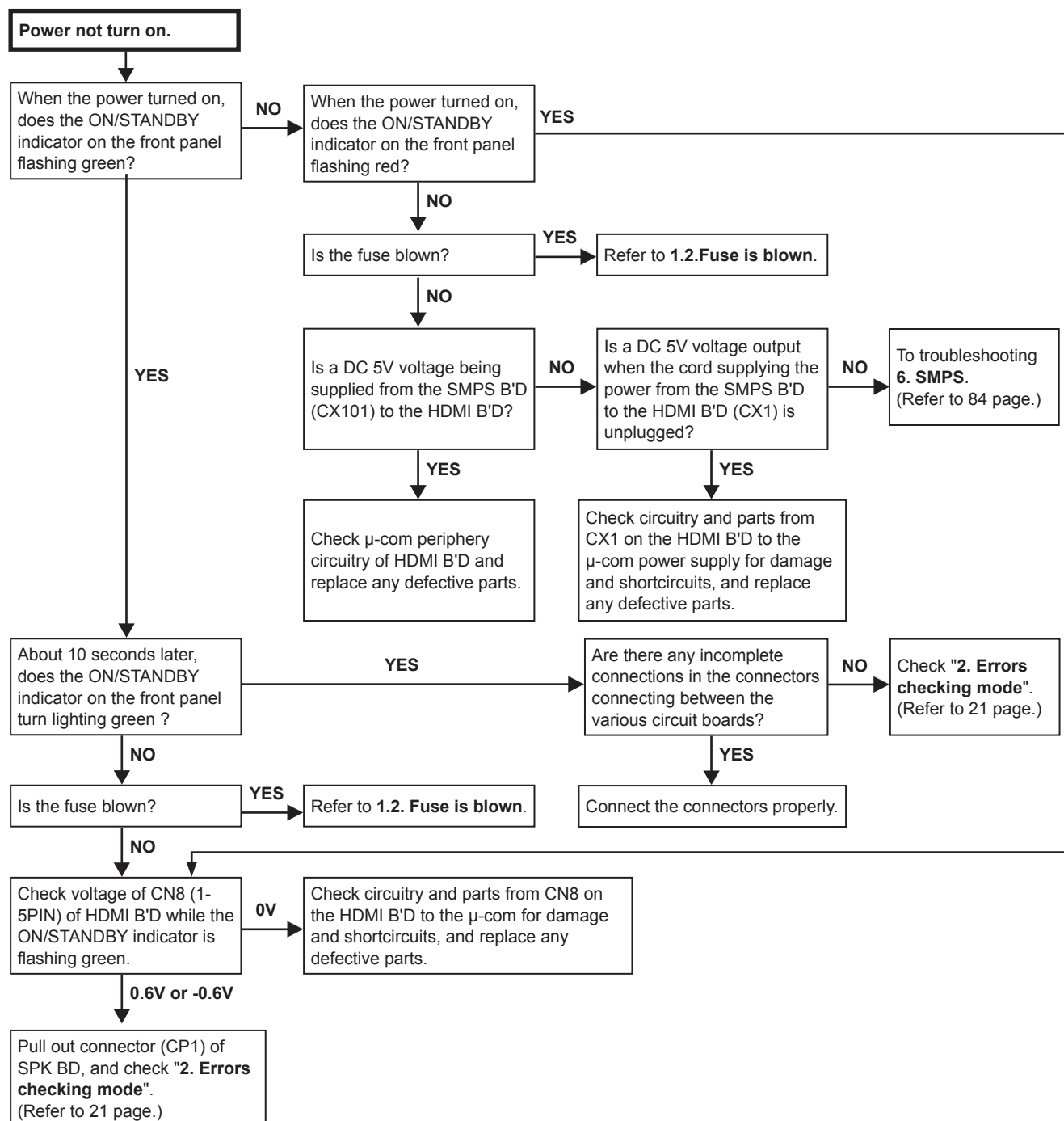
*3 This surround mode can be selected when "Amp Assign" is set to "NORMAL".

*4 If "Speaker Config." – "F.Height" is set to "None", this surround mode cannot be selected.

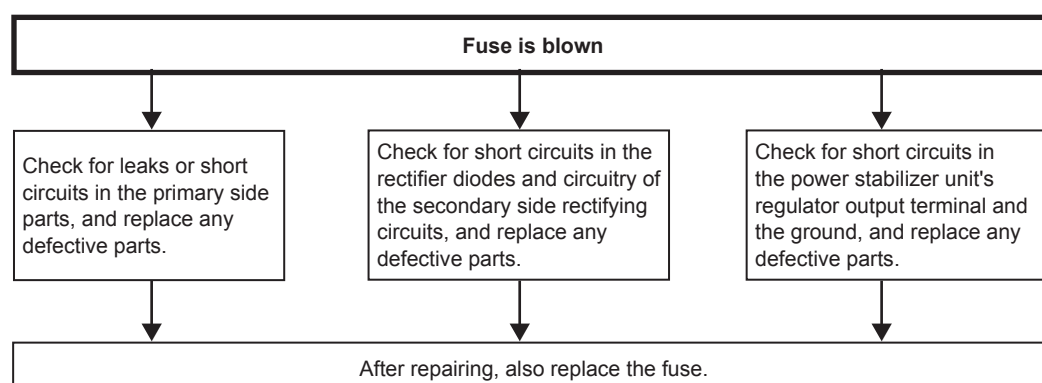
TROUBLE SHOOTING

1. POWER

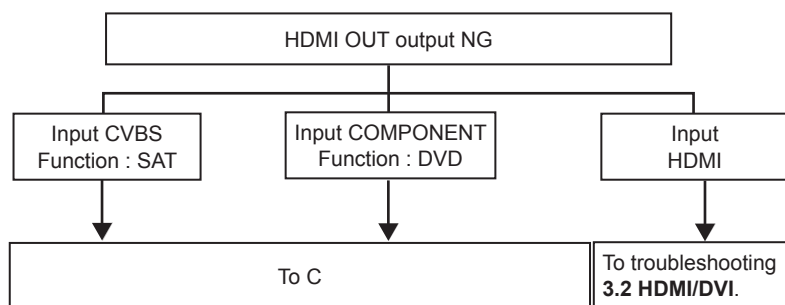
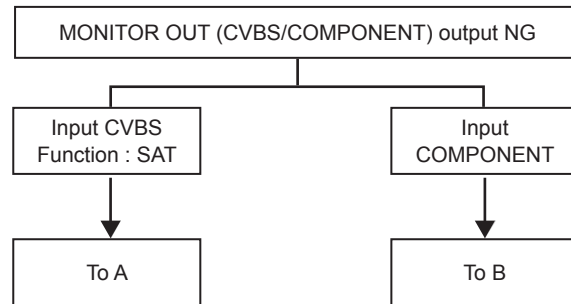
1.1. Power not turn on

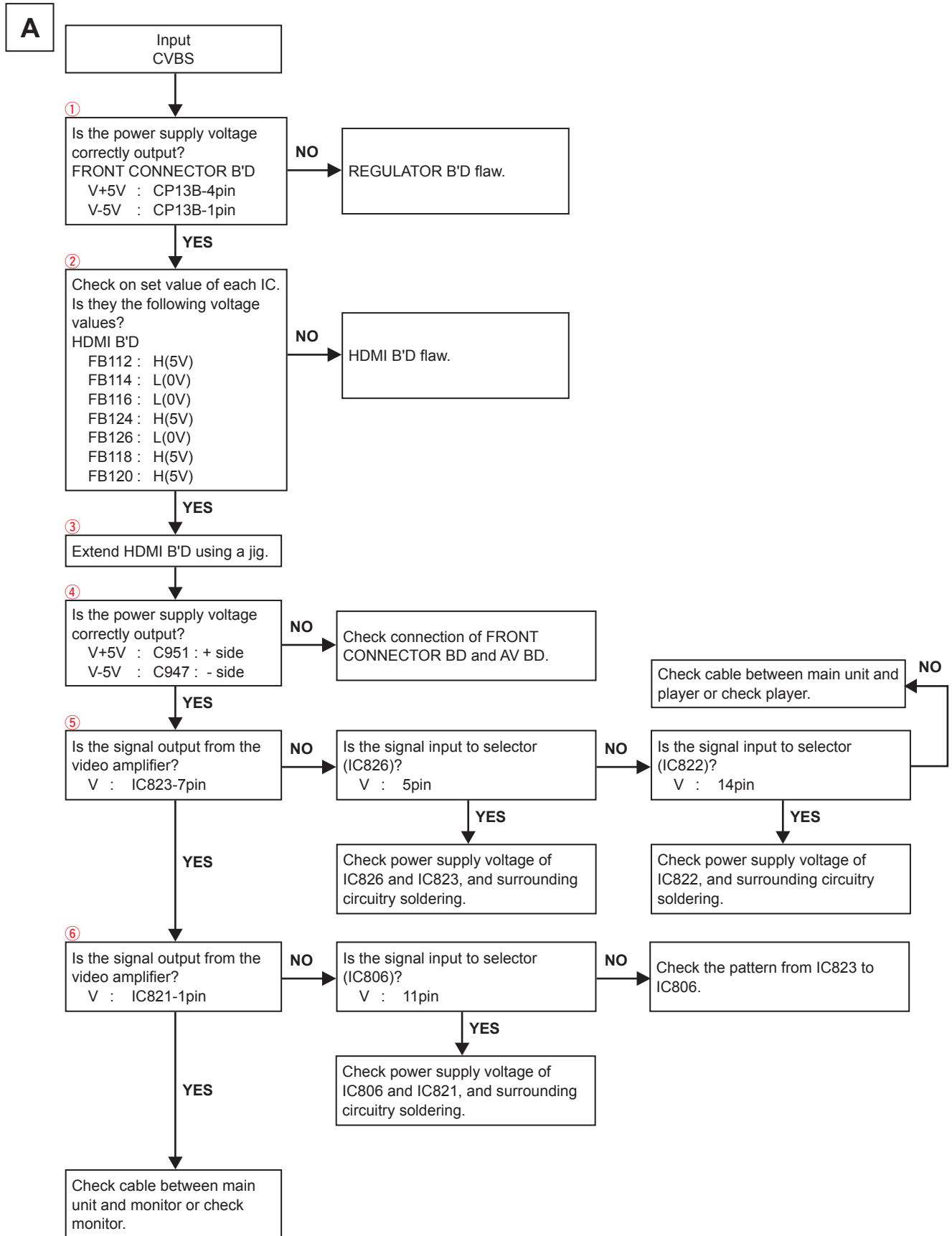


1.2. Fuse is blown

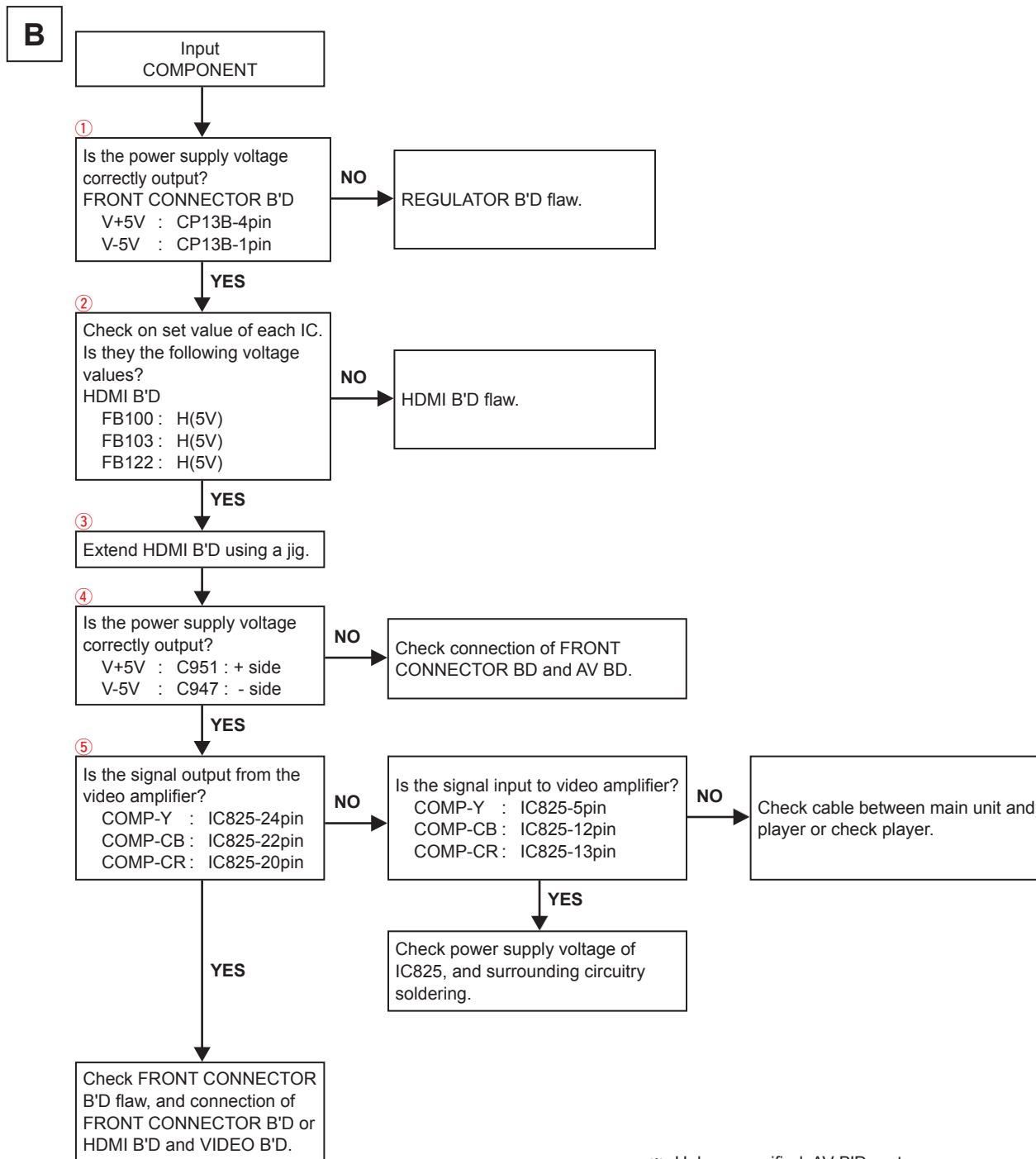


2. Analog video

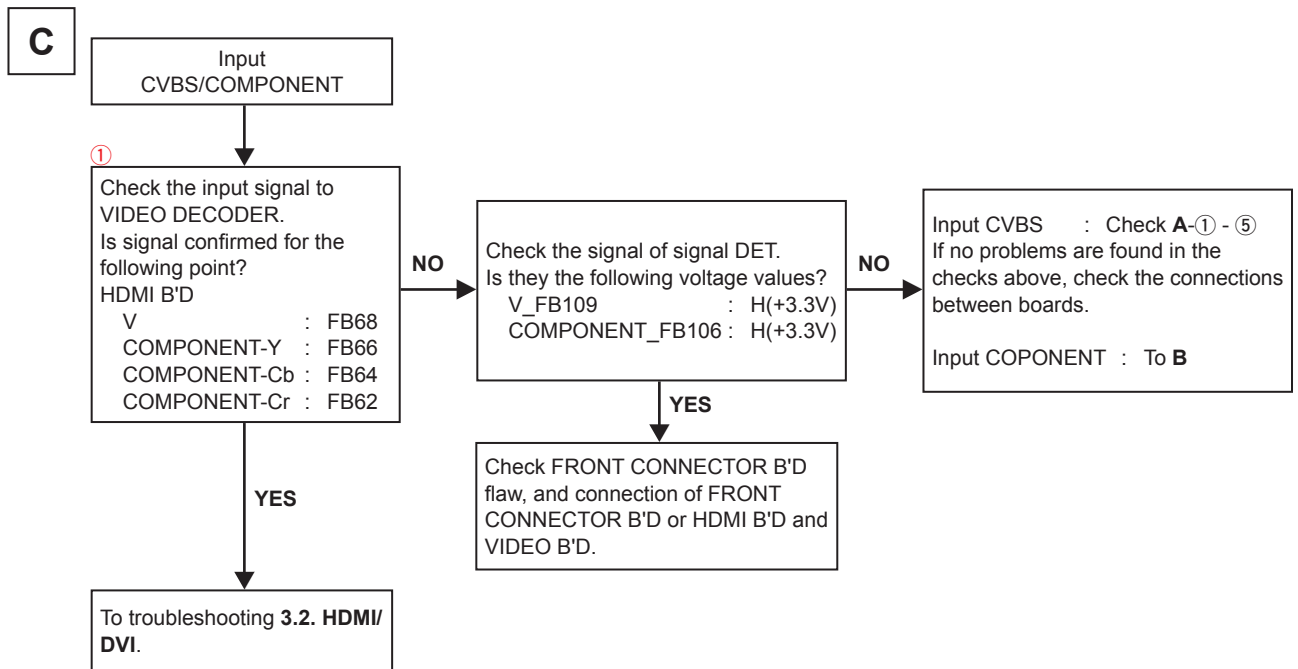




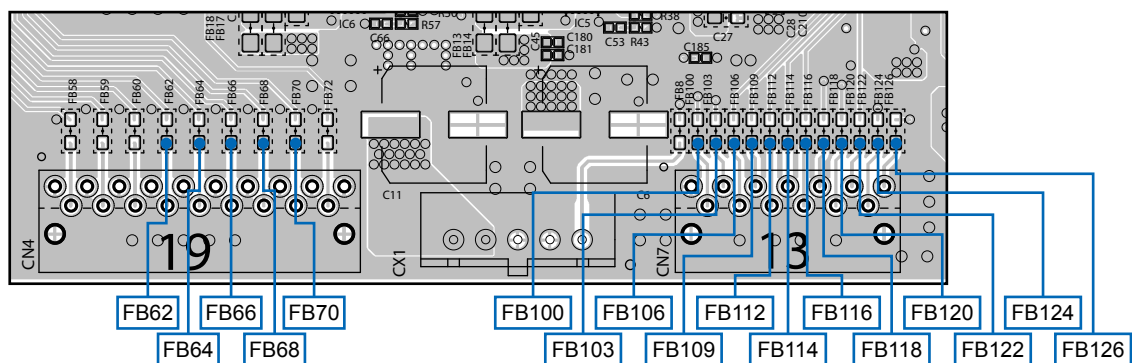
※ Unless specified, AV B'D part.



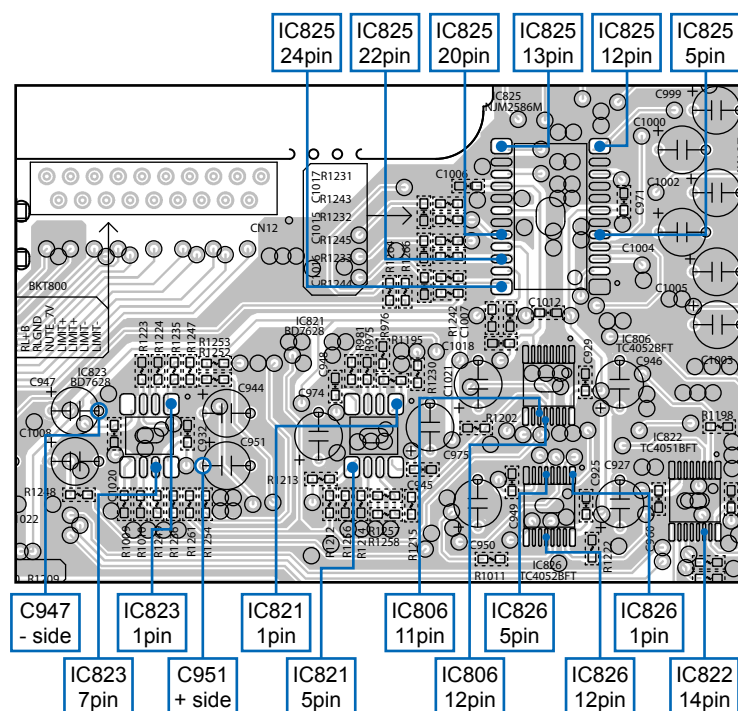
※ Unless specified, AV B'D part.



Detail A

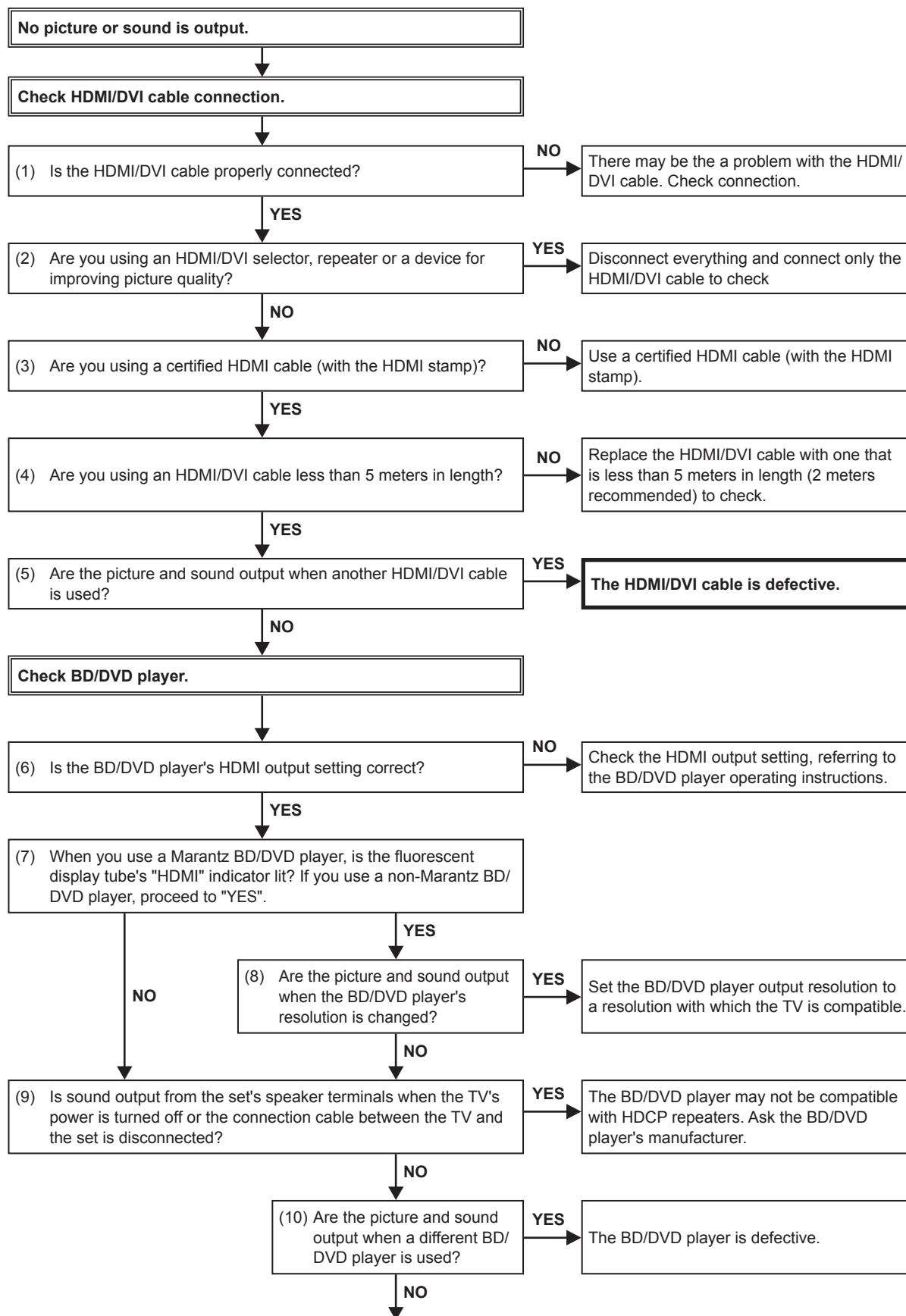


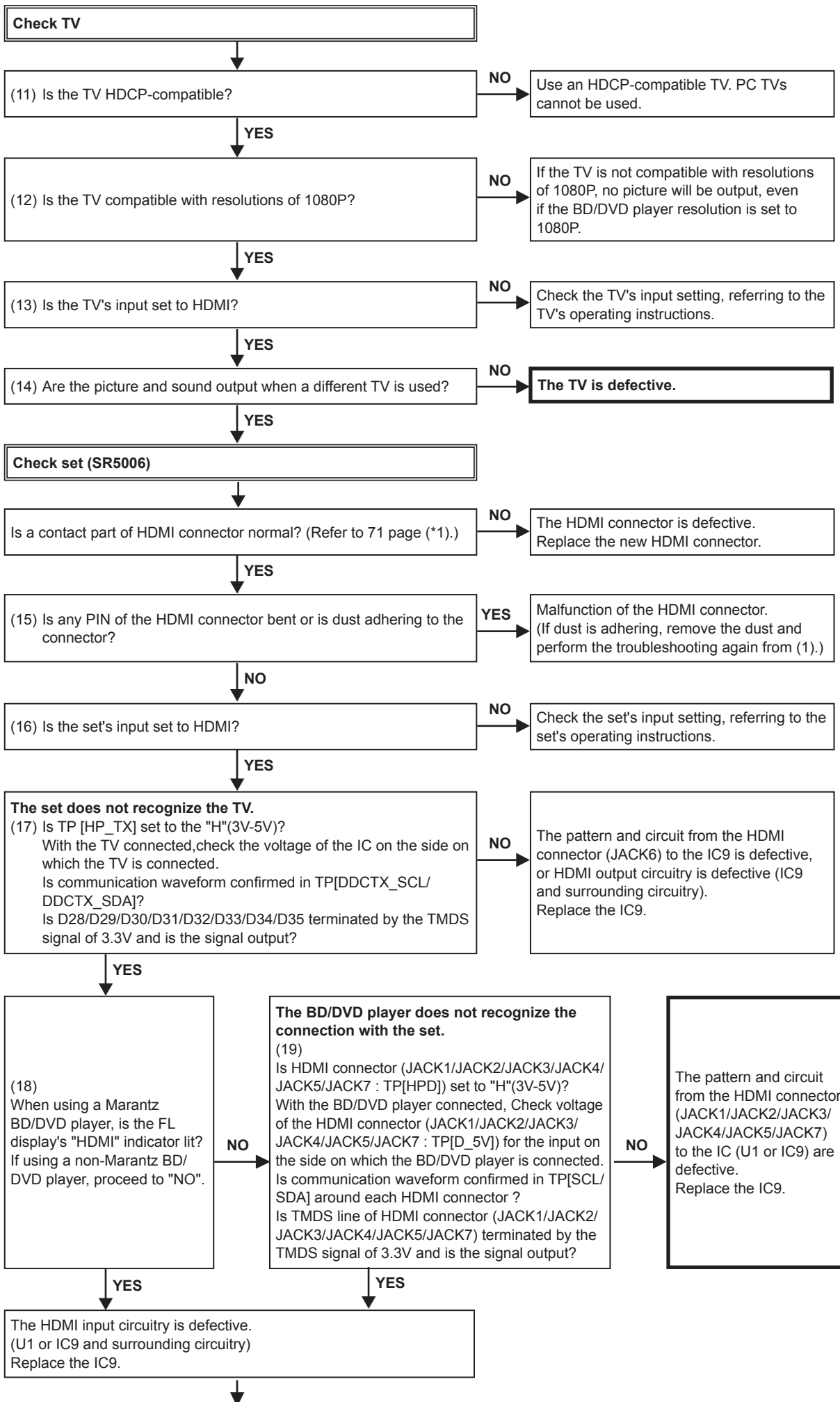
Detail B

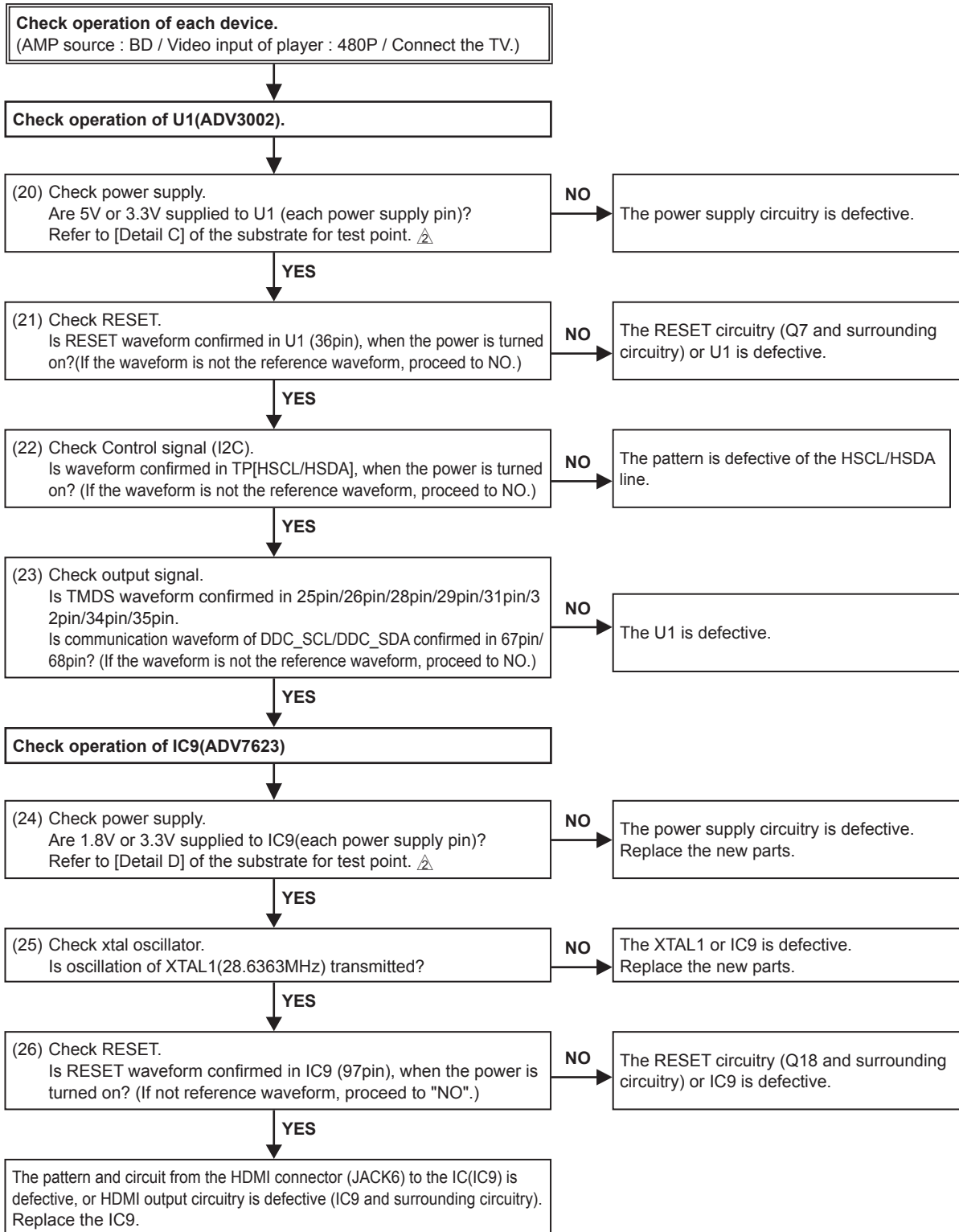


3. HDMI/DVI

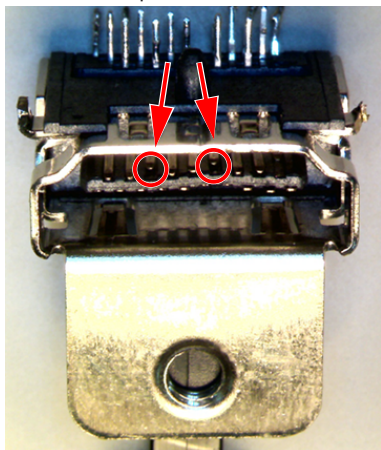
3.1. No picture or sound is output (HDMI to HDMI)



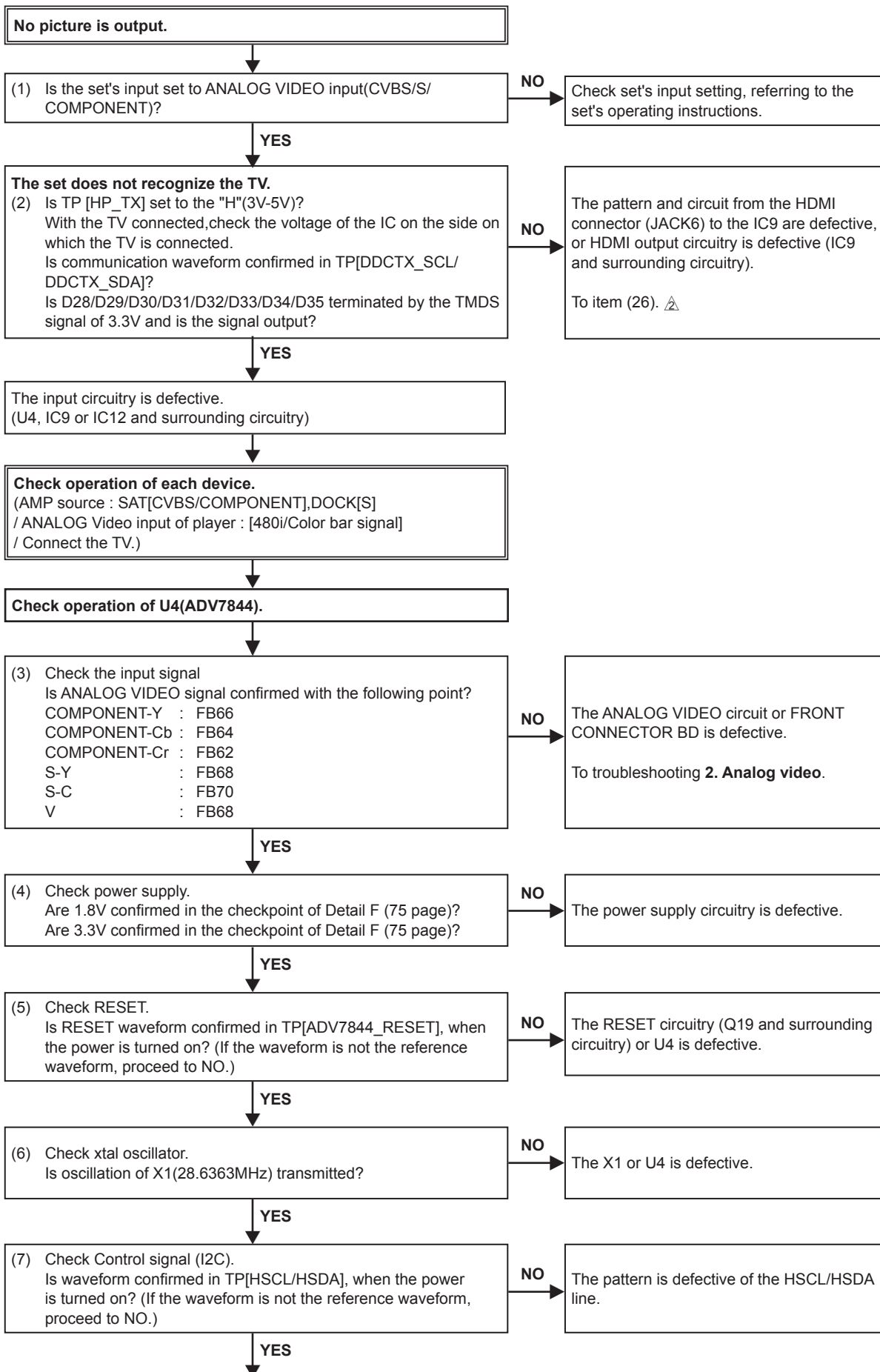


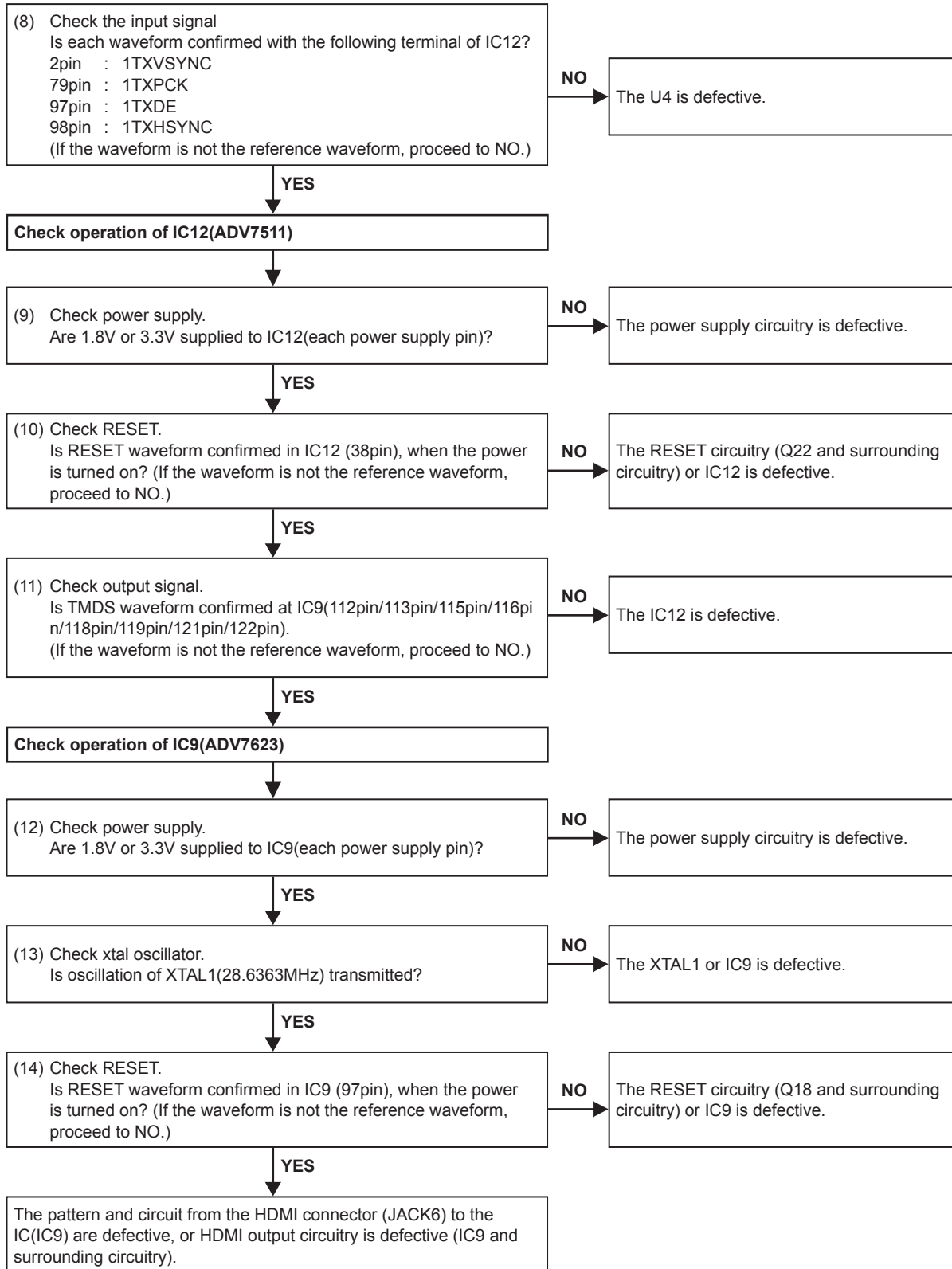


(*1) Abnormal sample of HDMI connector : The internal terminal has bent.

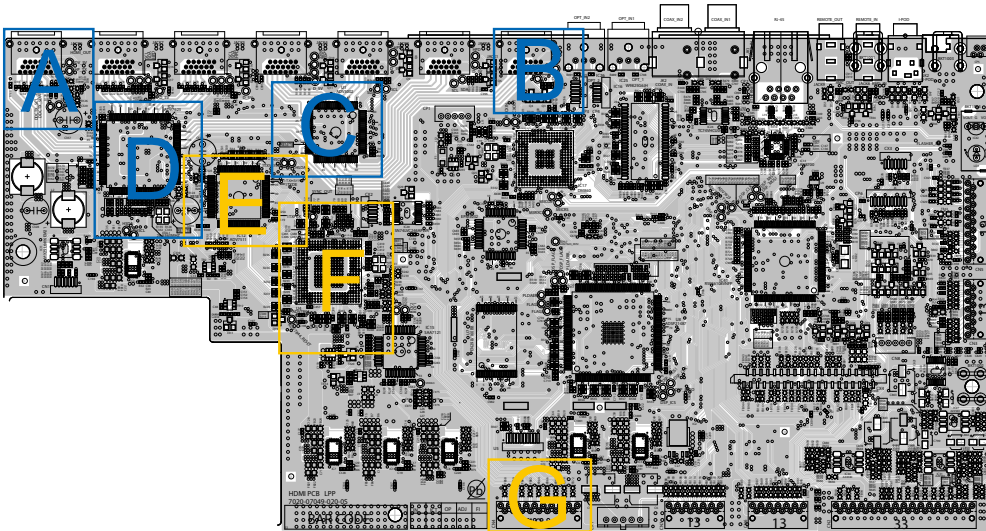


3.2. No picture is output (Analog to HDMI)



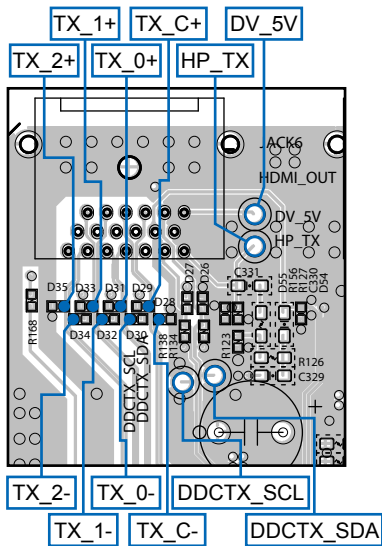


3.2. HDMI test point and waveforms

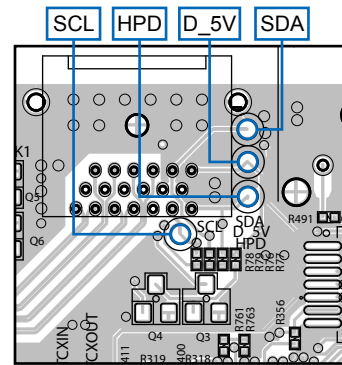


(COMPONENT SIDE)

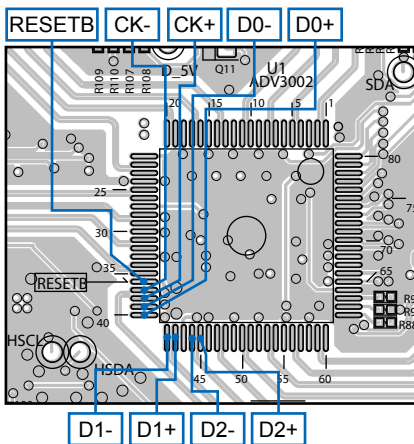
Detail A



Detail B

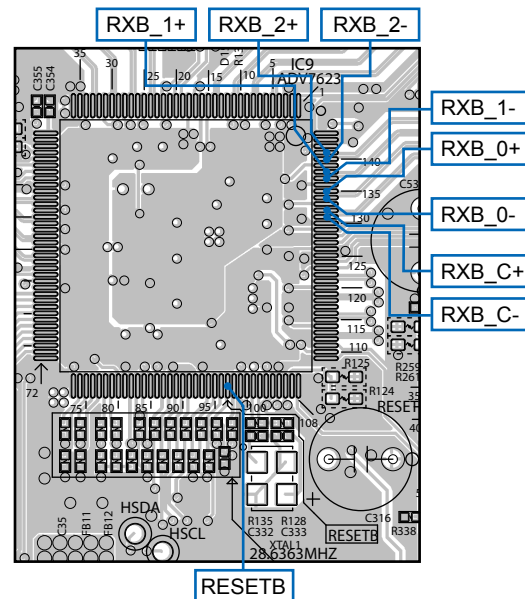


Detail C



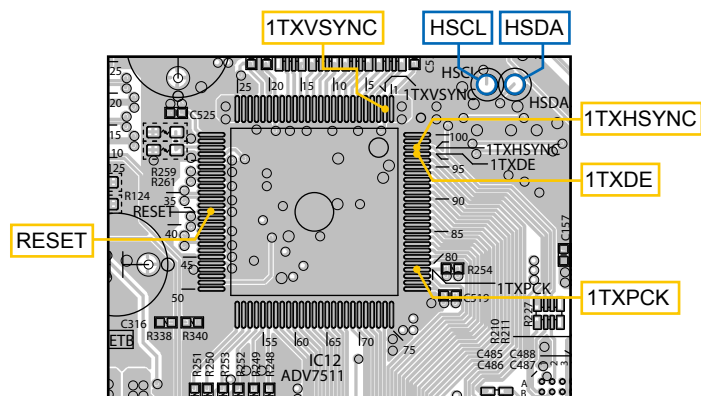
U1 [ADV3002] Power pin
5V : 64pin
3.3V : 9pin / 18pin / 33pin / 43pin / 52pin

Detail D



IC9 [ADV7623] Power pin
3.3V : 6pin / 12pin / 25pin / 31pin / 73pin / 86pin / 114pin / 120pin / 133pin / 139pin
1.8V : 2pin / 18pin / 21pin / 34pin / 36pin / 37pin / 45pin / 55pin / 61pin / 81pin / 93pin / 100pin / 103pin / 110pin / 126pin / 129pin

Detail E

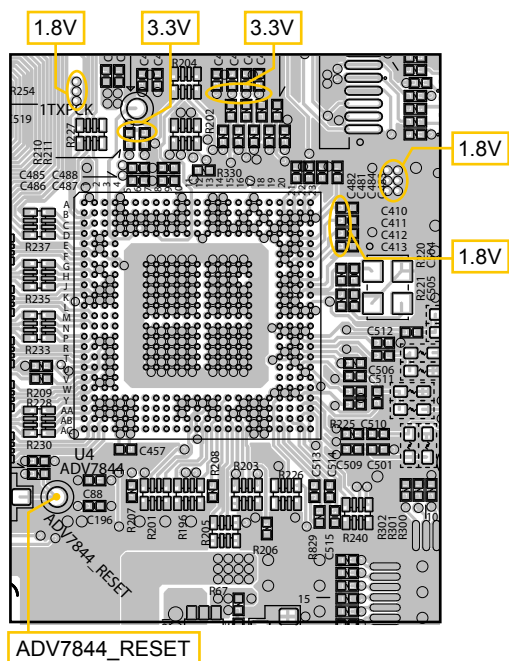


IC12 [ADV7511]Power pin

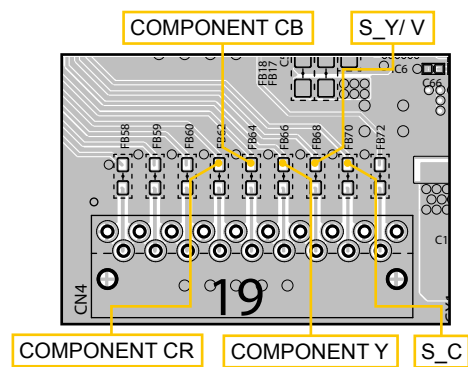
3.3V : 47pin

1.8V : 1pin / 19pin / 21pin / 24pin / 25pin / 26pin /
29pin / 34pin / 41pin / 49pin / 76pin / 77pin

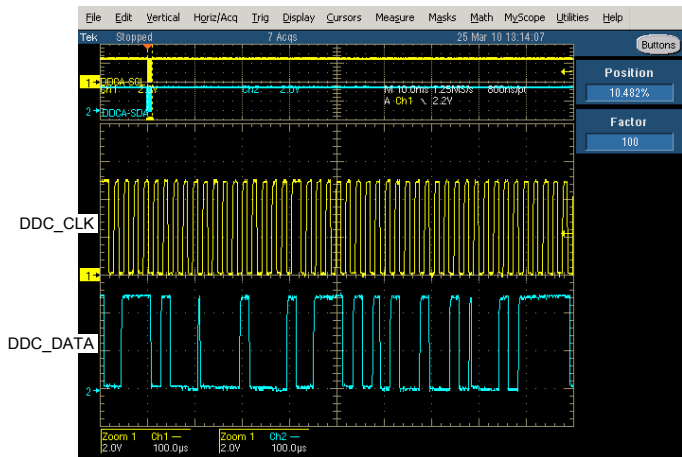
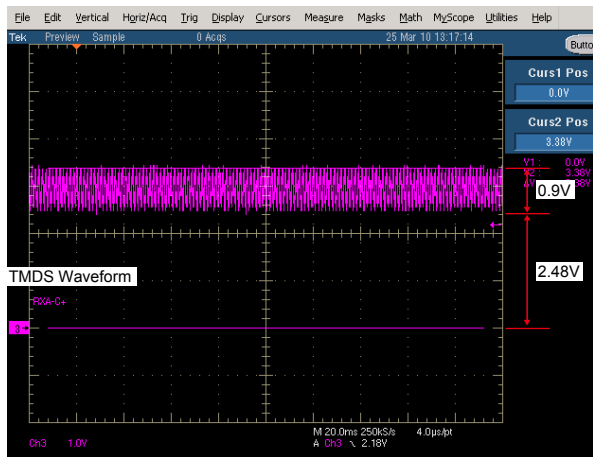
Detail F



Detail G

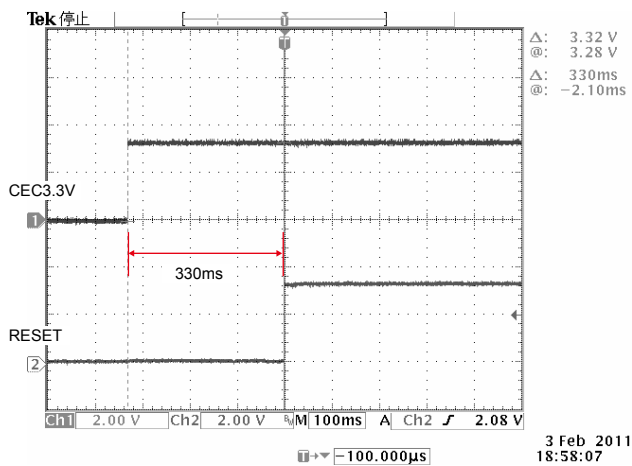


DDC_CLK/DDC_DATA/TMDS : Check items HDMI to HDMI (17)/(19)/(23), Check items Analog to HDMI (11)

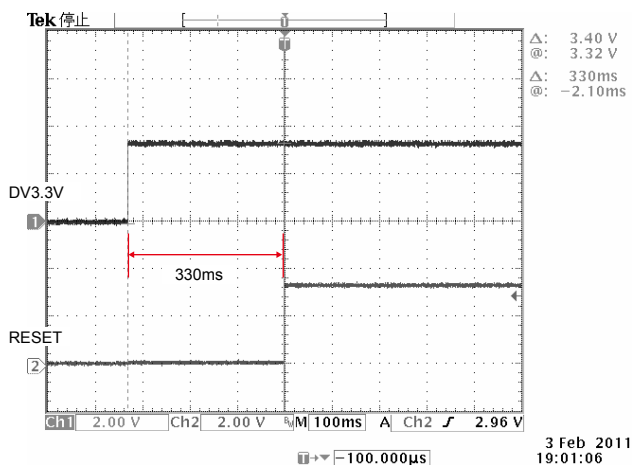


Timing waveform illustration from the start of CEC3.3V to when reset is released :

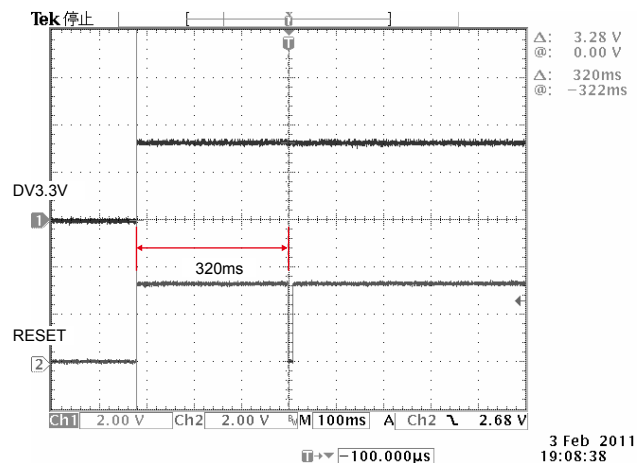
Check items HDMI to HDMI (21)/(26),
Check item Analog to HDMI (14)



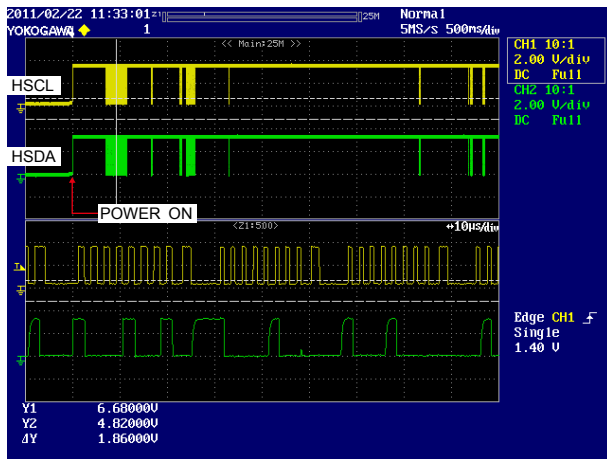
Check item Analog to HDMI (5)



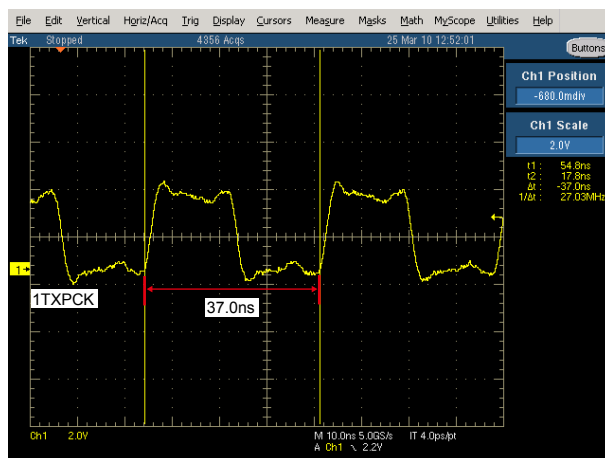
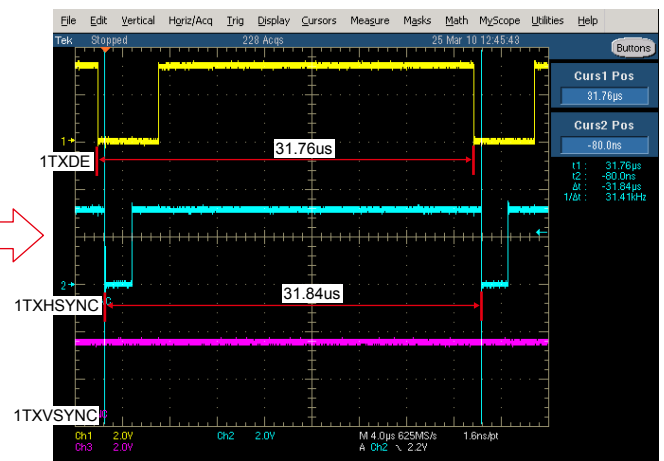
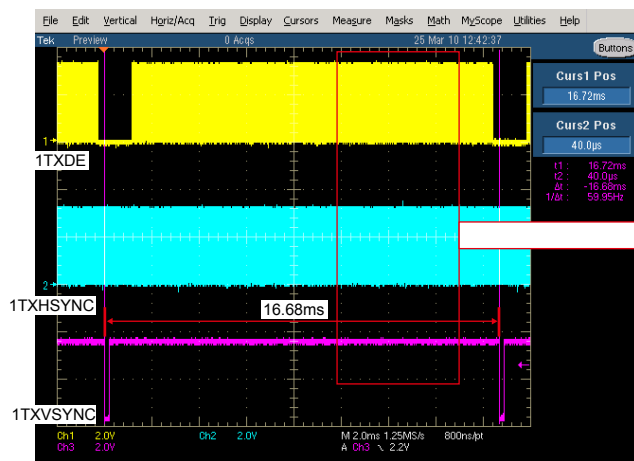
Check item Analog to HDMI (10)



Controlled waveform(I2C), when power is turned on : Check item HDMI to HDMI (22), Check item Analog to HDMI (7)

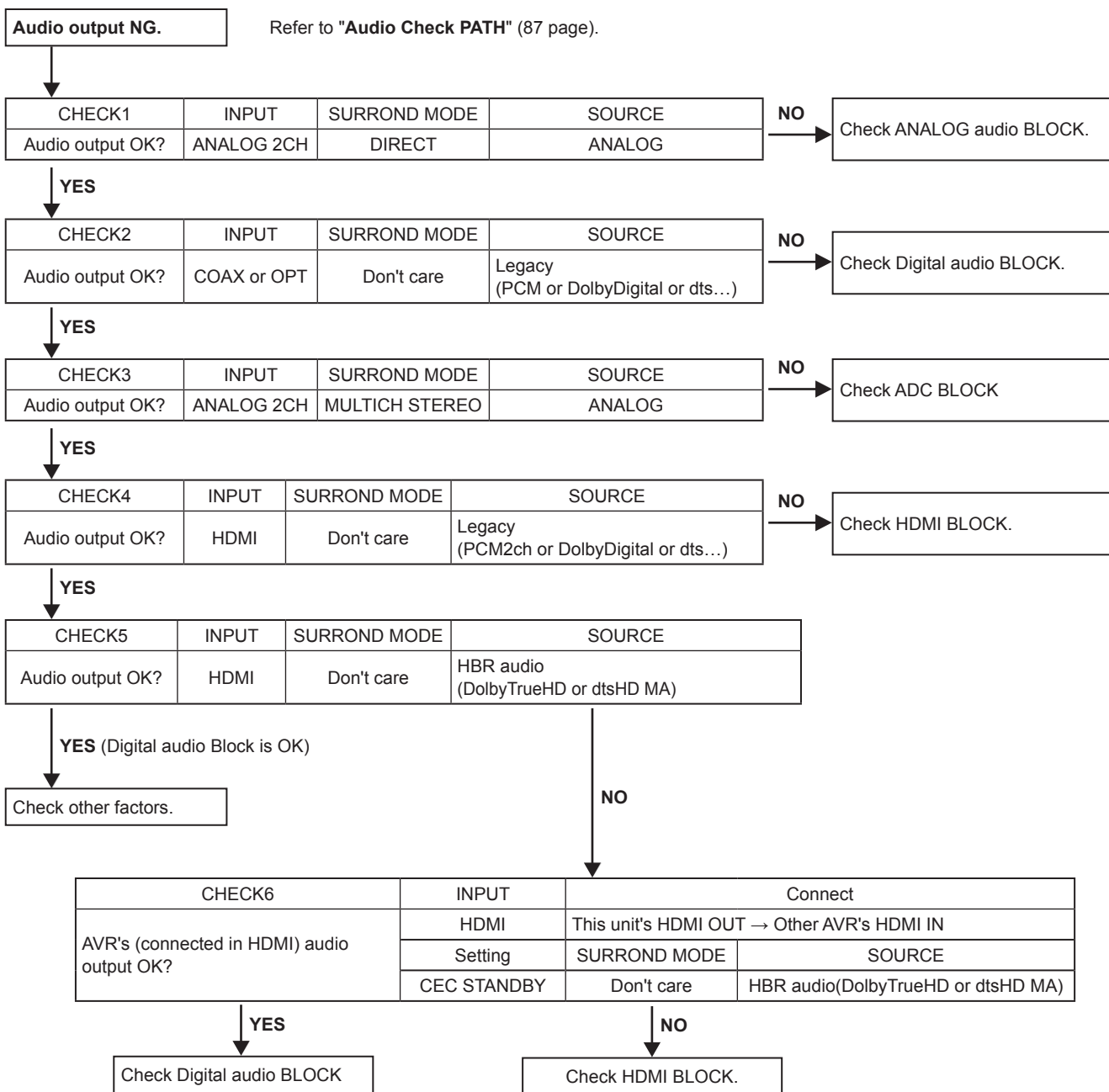


1TXDE/1TXVSYNC/1TXHSYNC/1TXPCK : Check item Analog to HDMI (8)

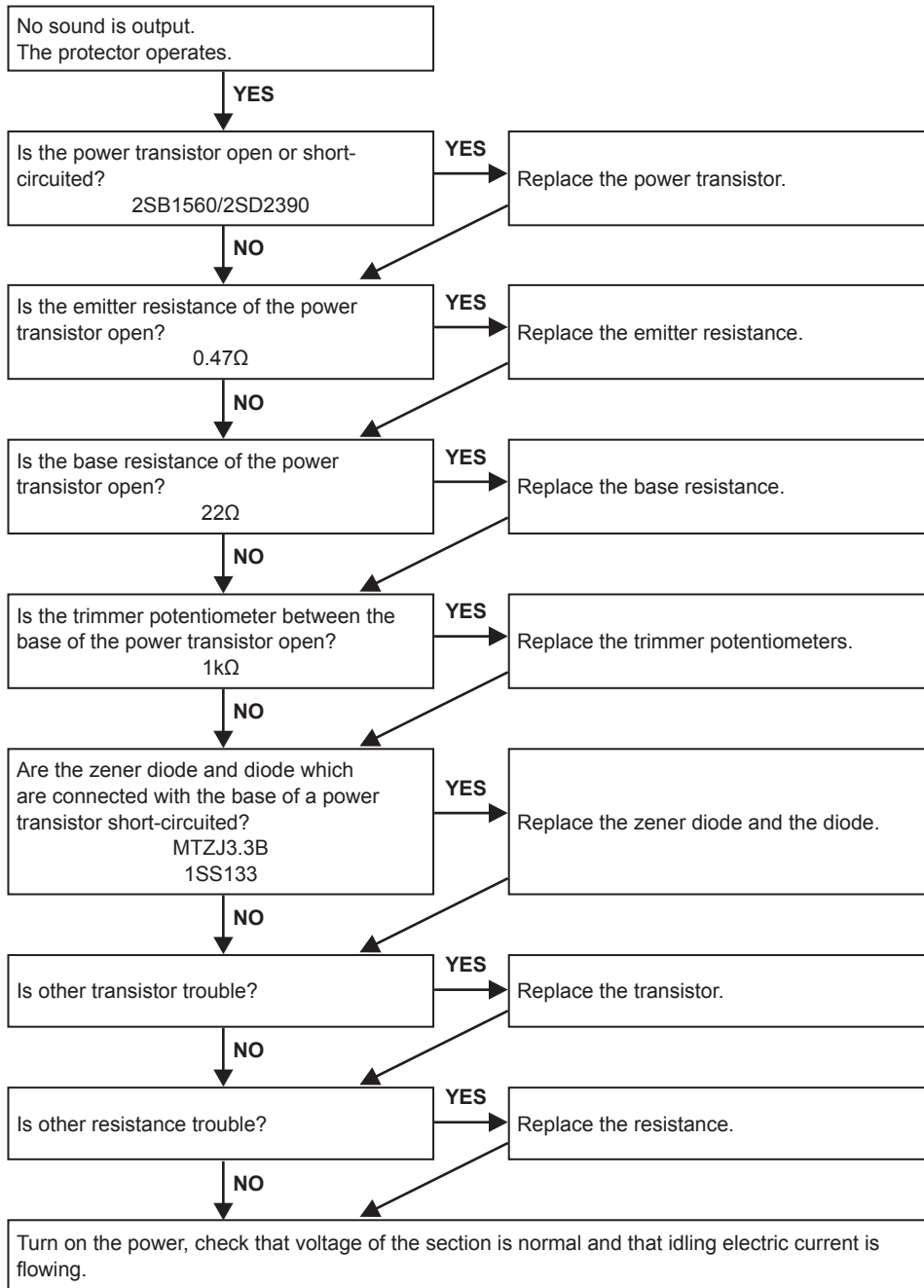


4. AUDIO

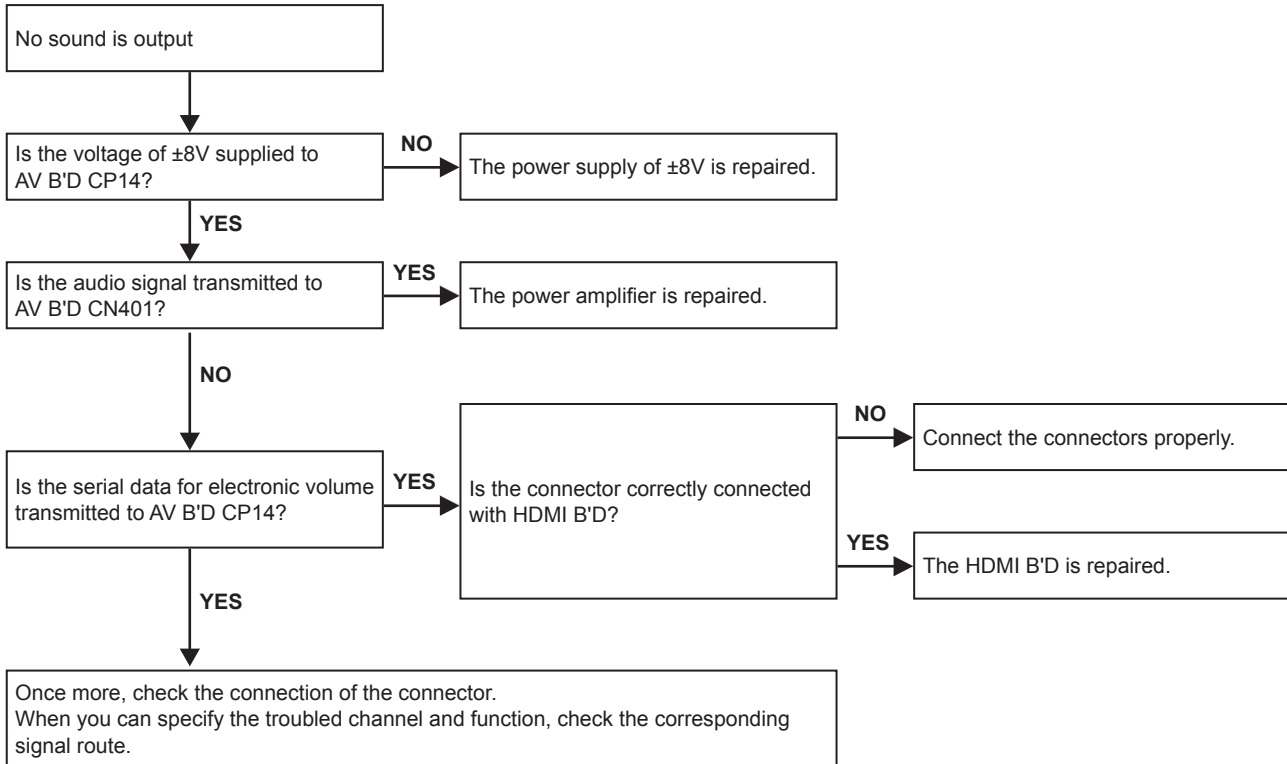
4.1. AUDIO CHECK



4.2. Power AMP (MAIN UNIT)

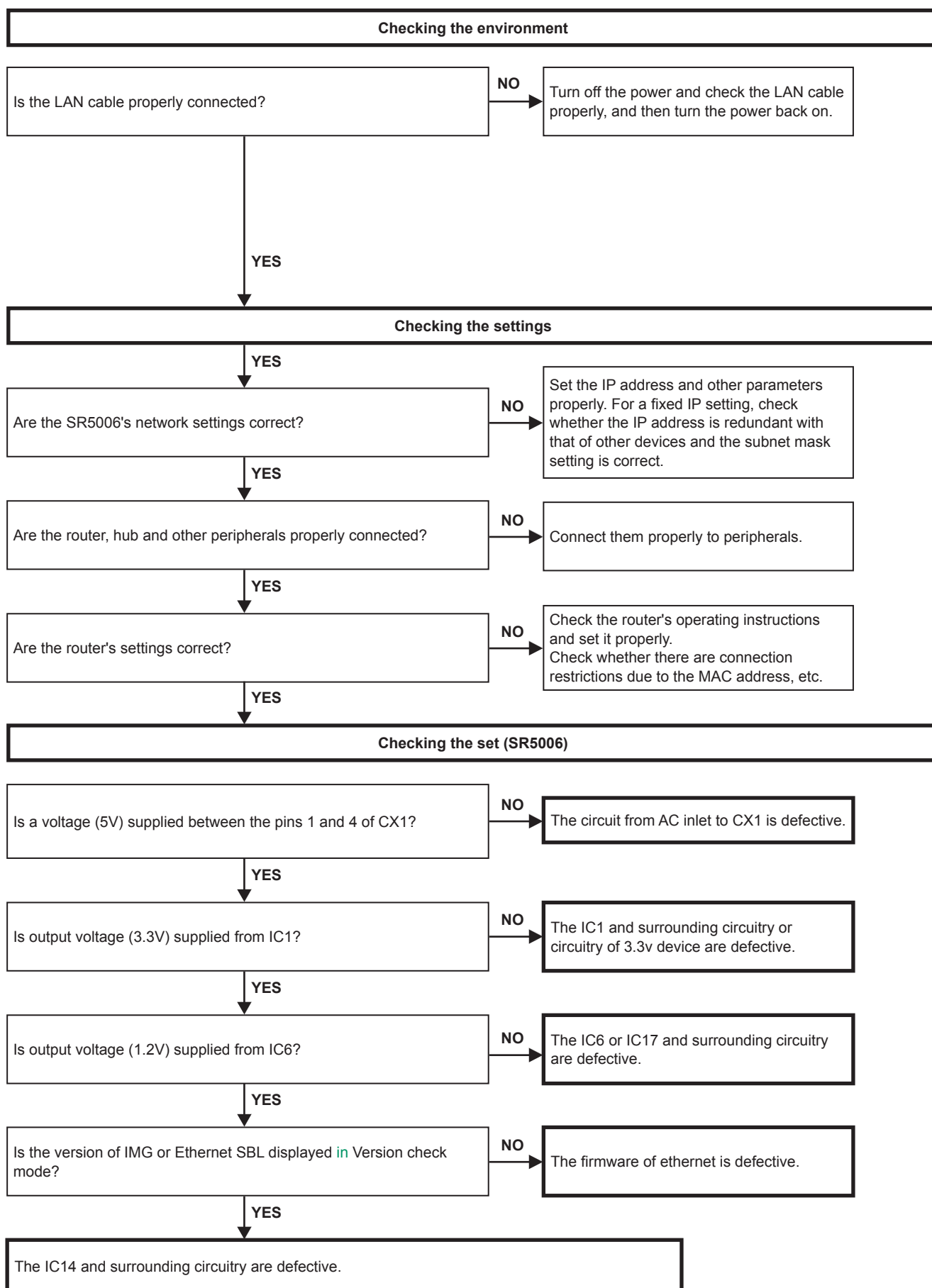


4.3. Analog audio

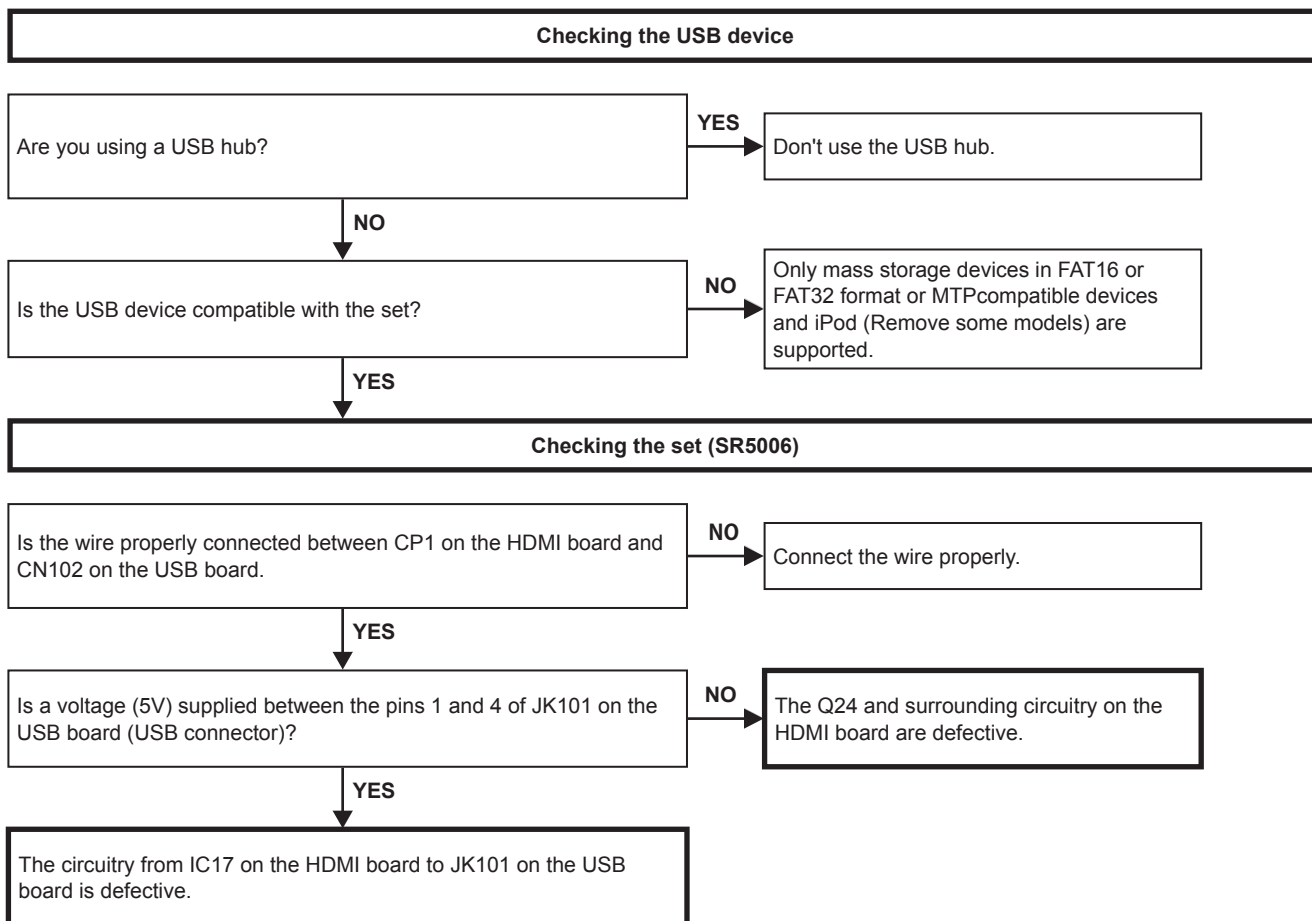


5. Network/USB

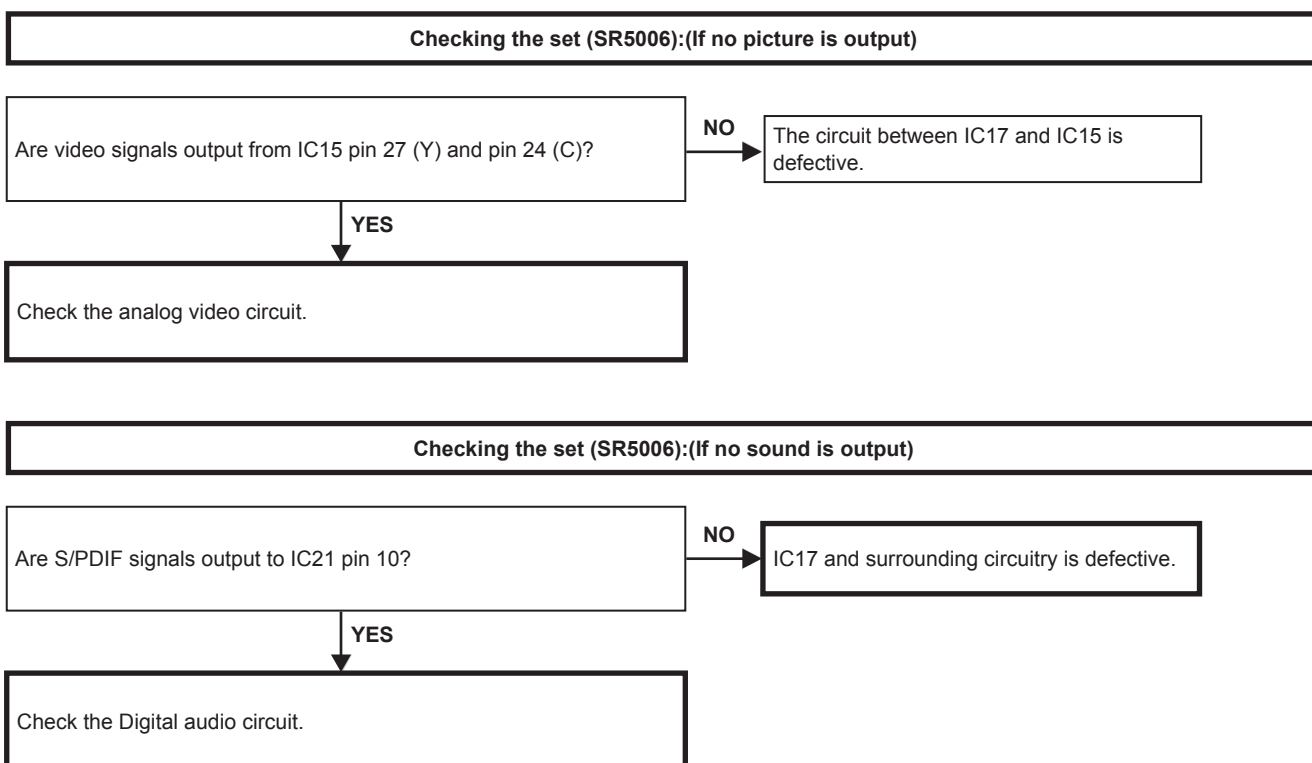
5.1. Cannot connect to network



5.2. USB device is not recognized

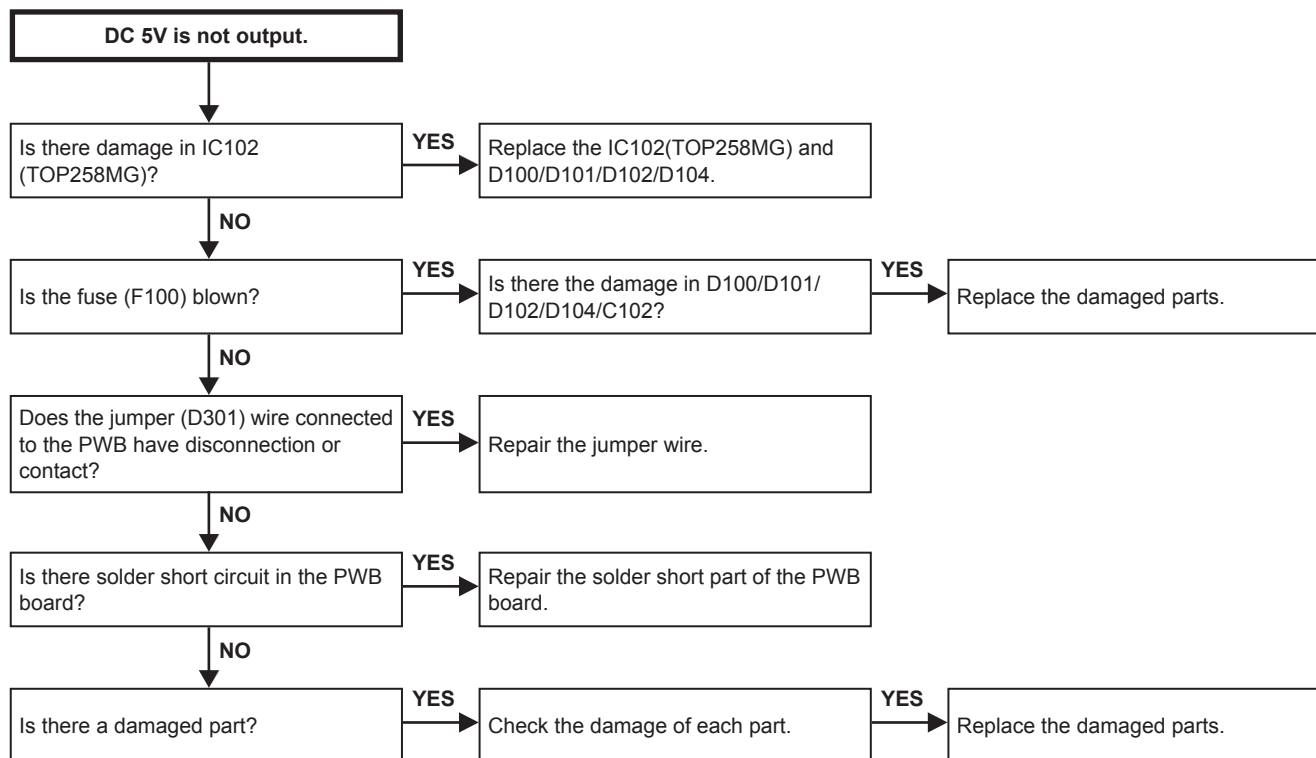


5.3. No picture or no sound is output

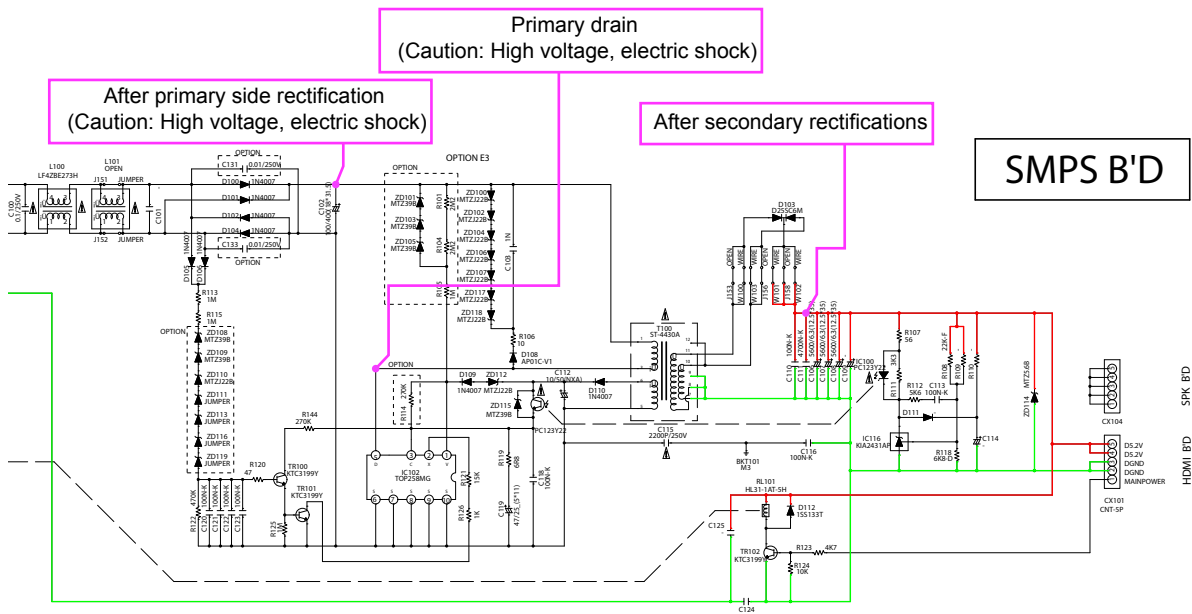


83

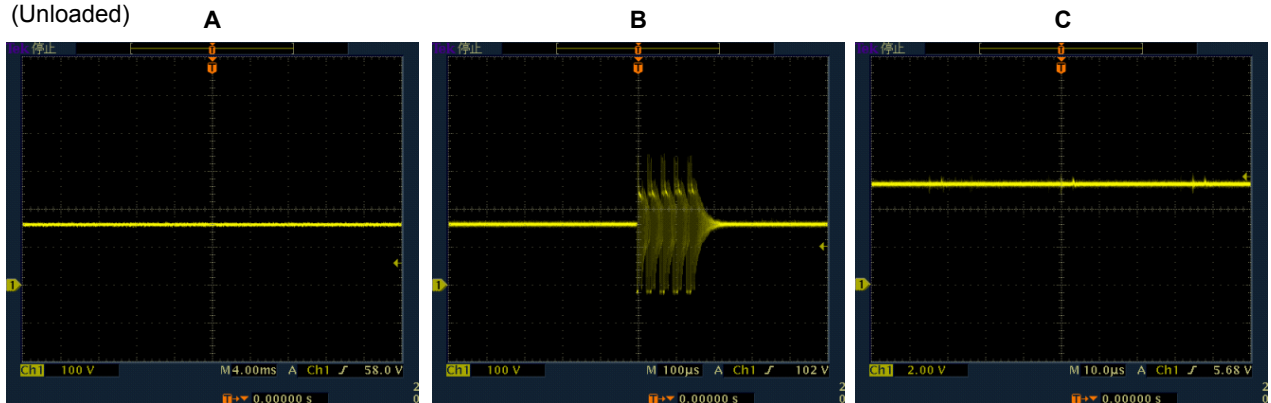
6. SMPS



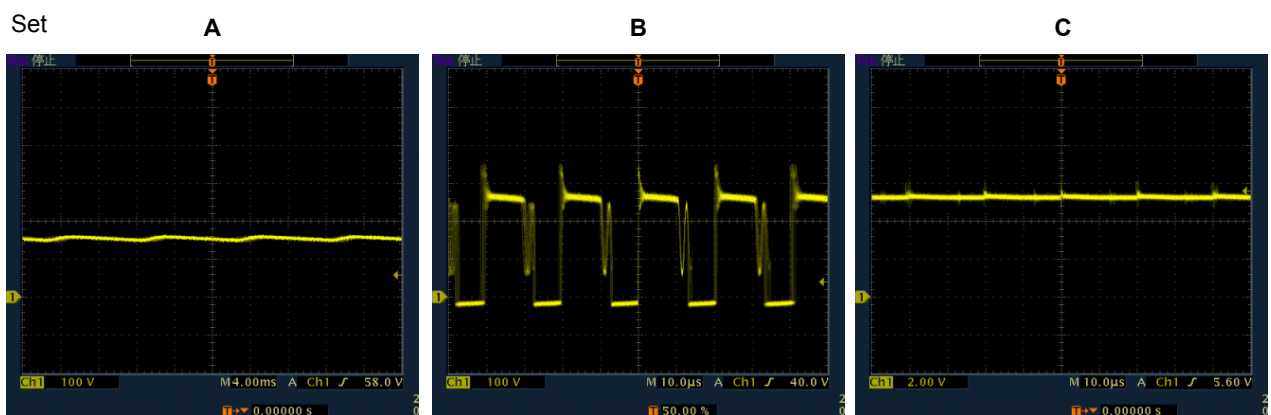
Operation waveform for each part



SMPS unit
(Unloaded)



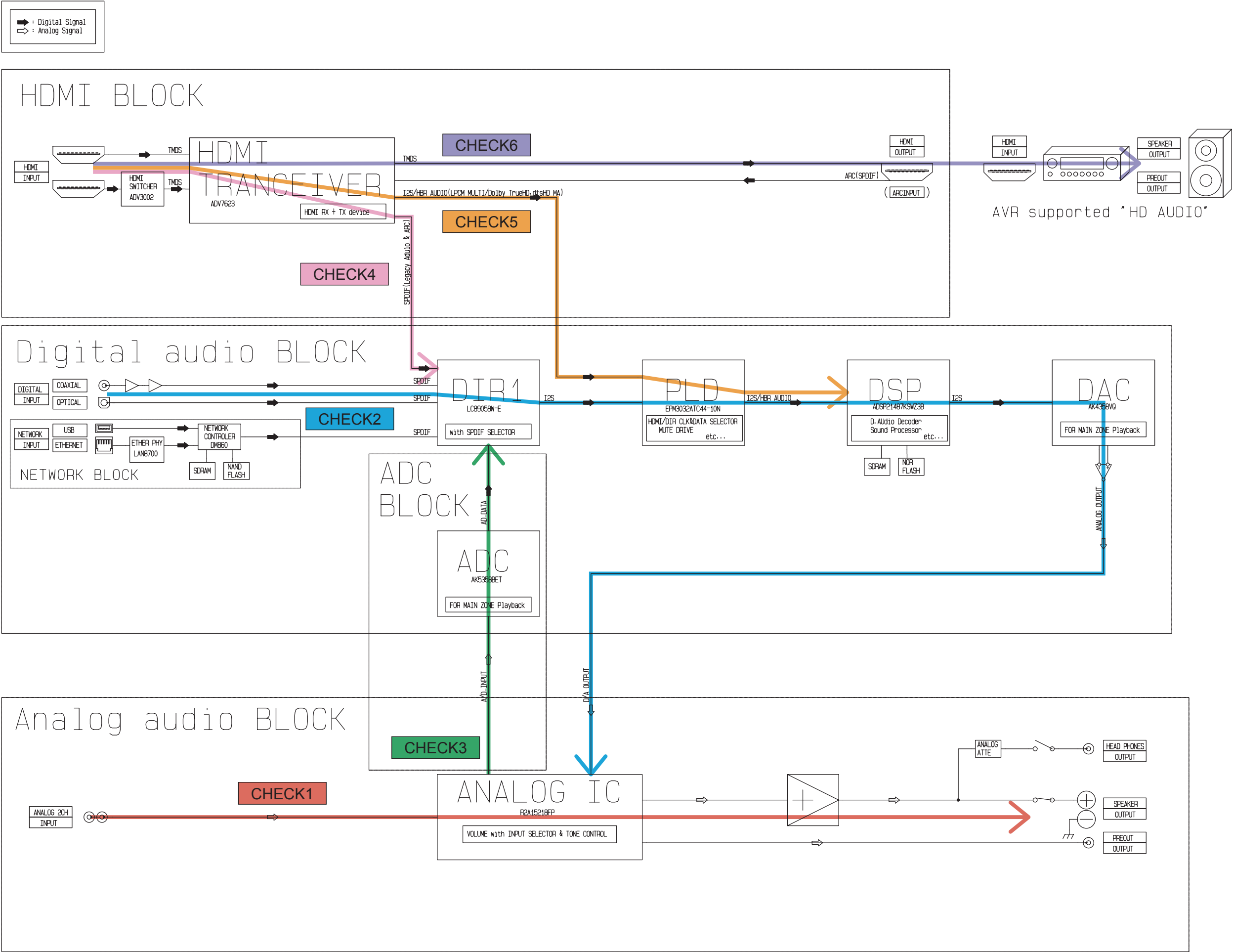
Set



[illegible]

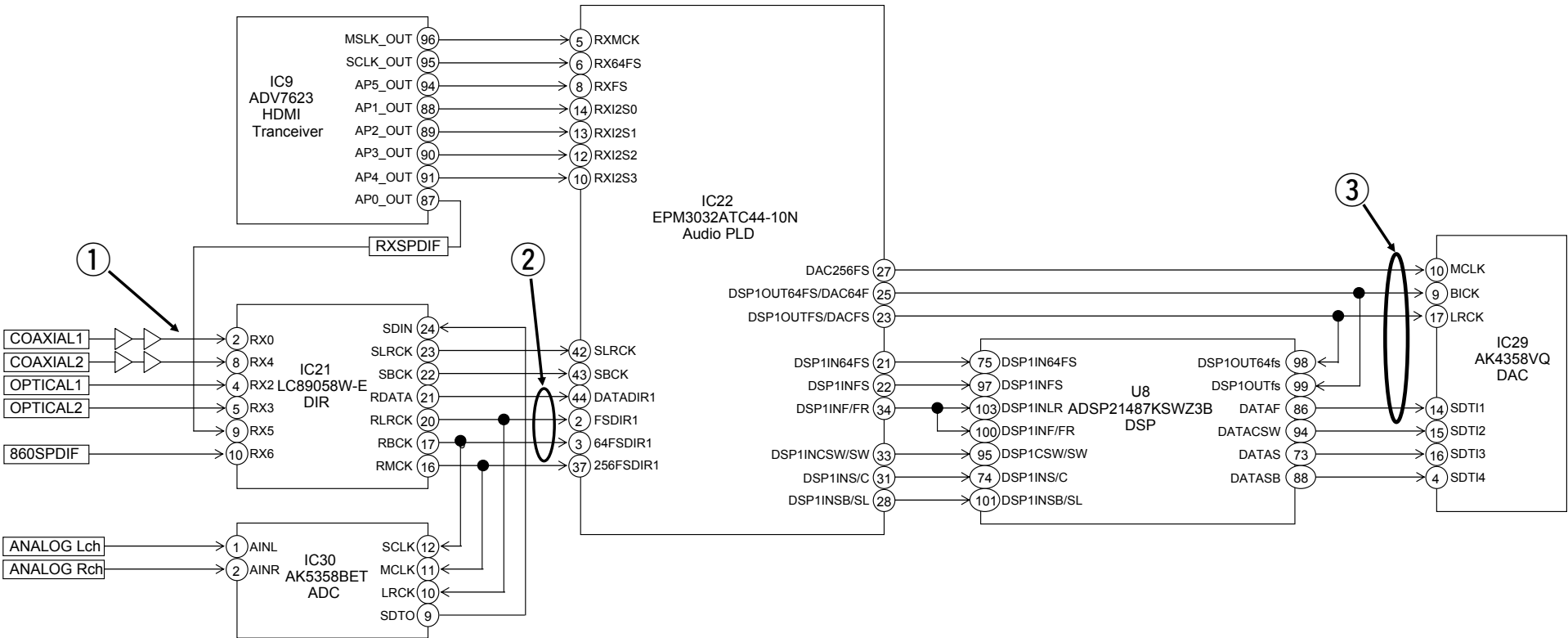
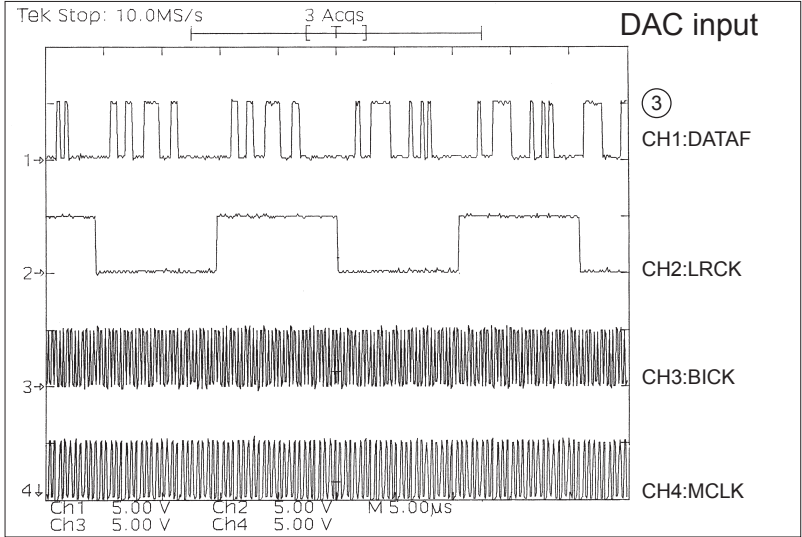
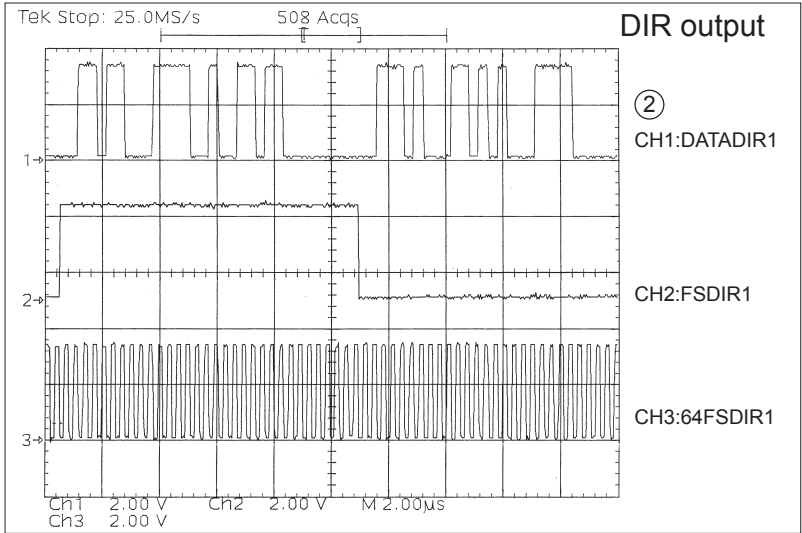
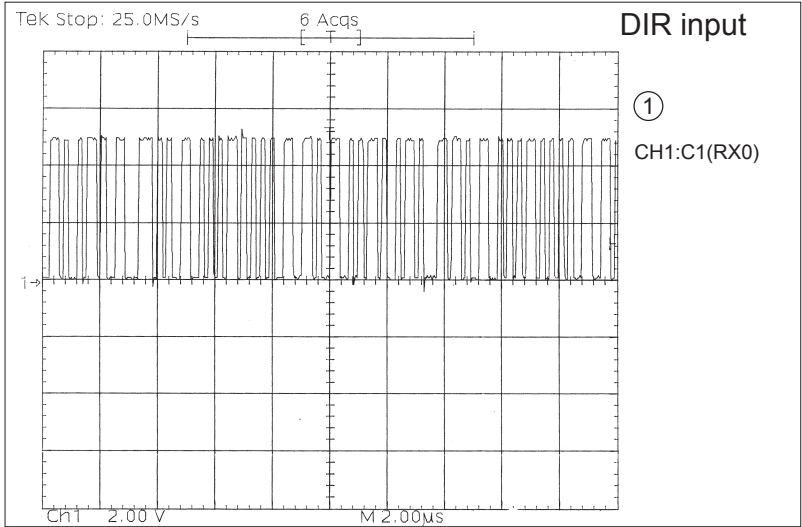
Audio Check PATH

Refer to troubleshooting "4.1. AUDIO CHECK"(78 page).

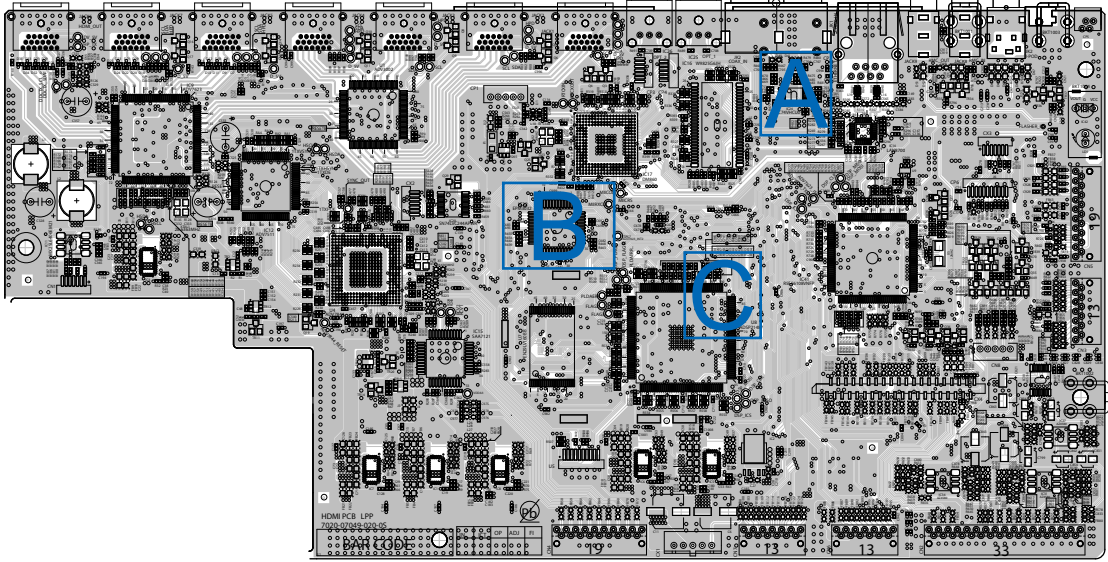


CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

WAVE FORM

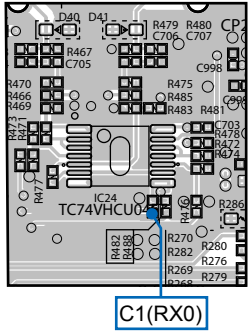


Test point

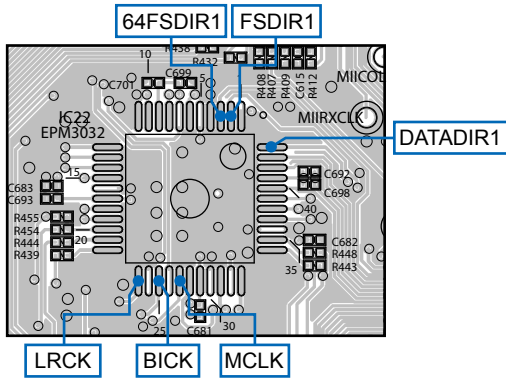


HDMI (COMPONENT SIDE)

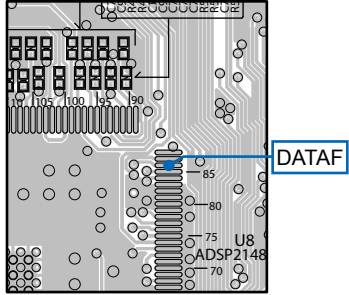
Detail A



Detail B

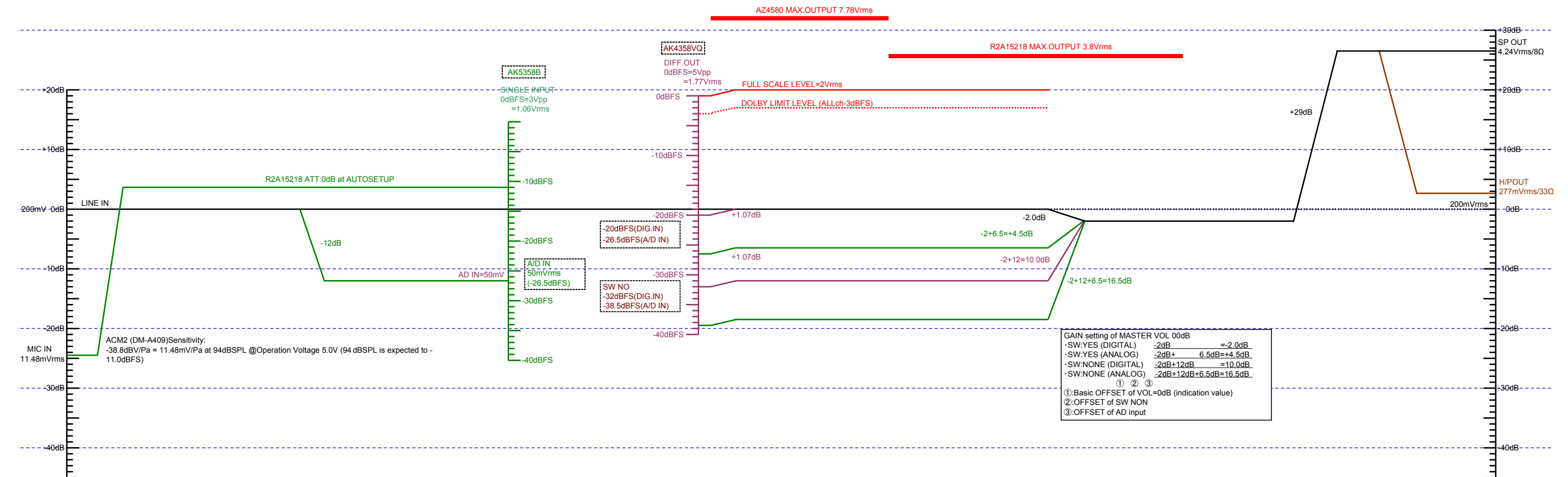
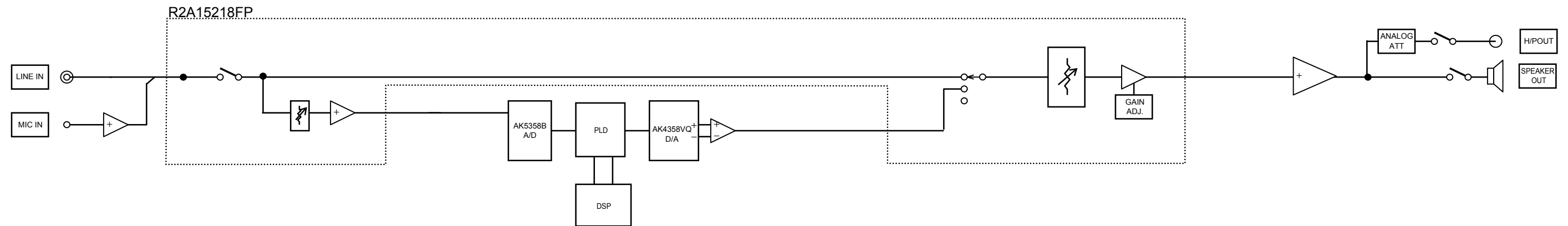


Detail C

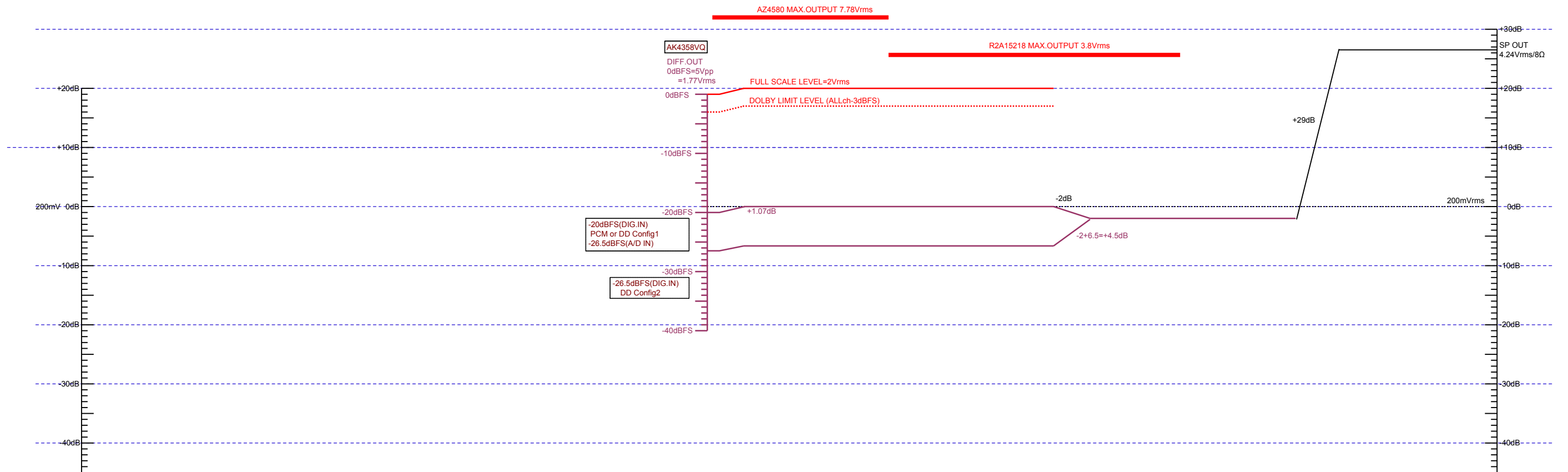
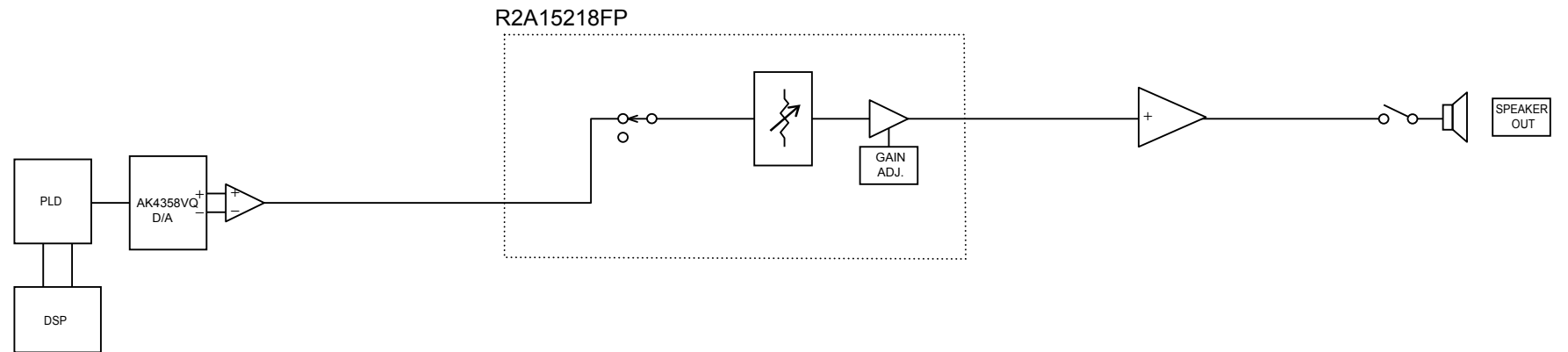


LEVEL DIAGRAM

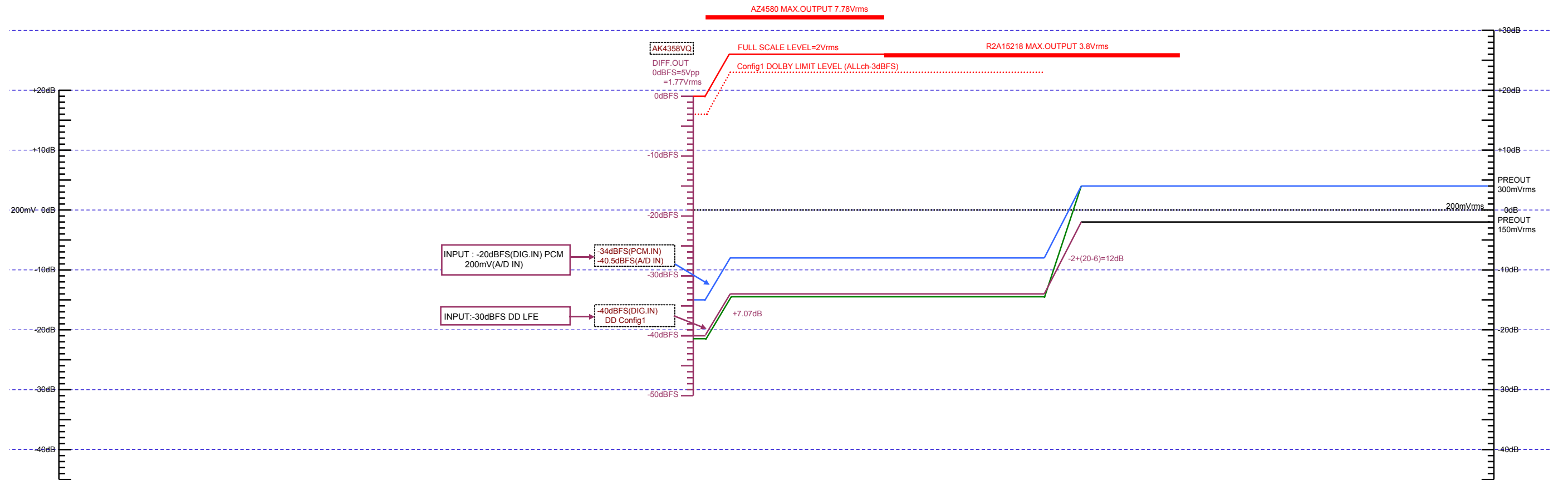
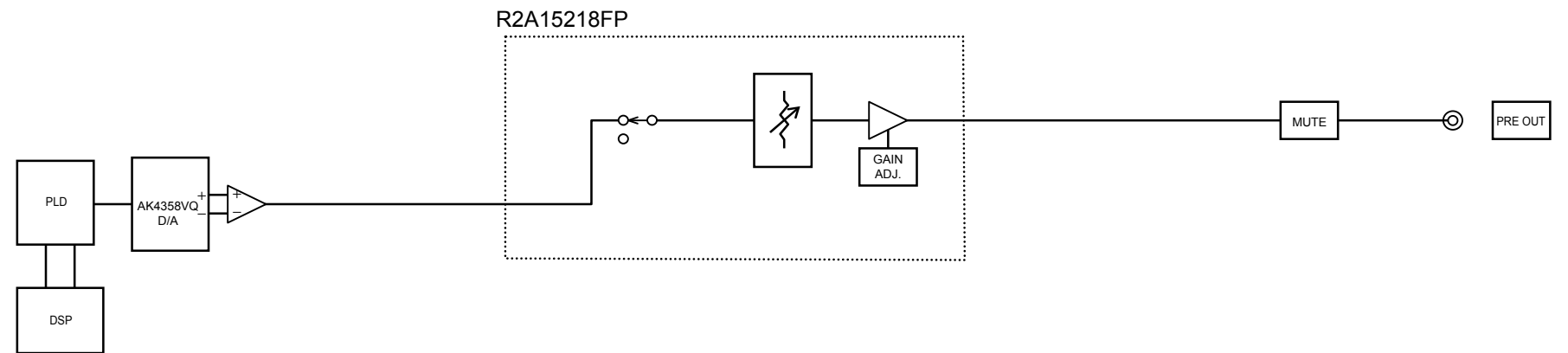
LEVEL DIAGRAM
FRONT ch



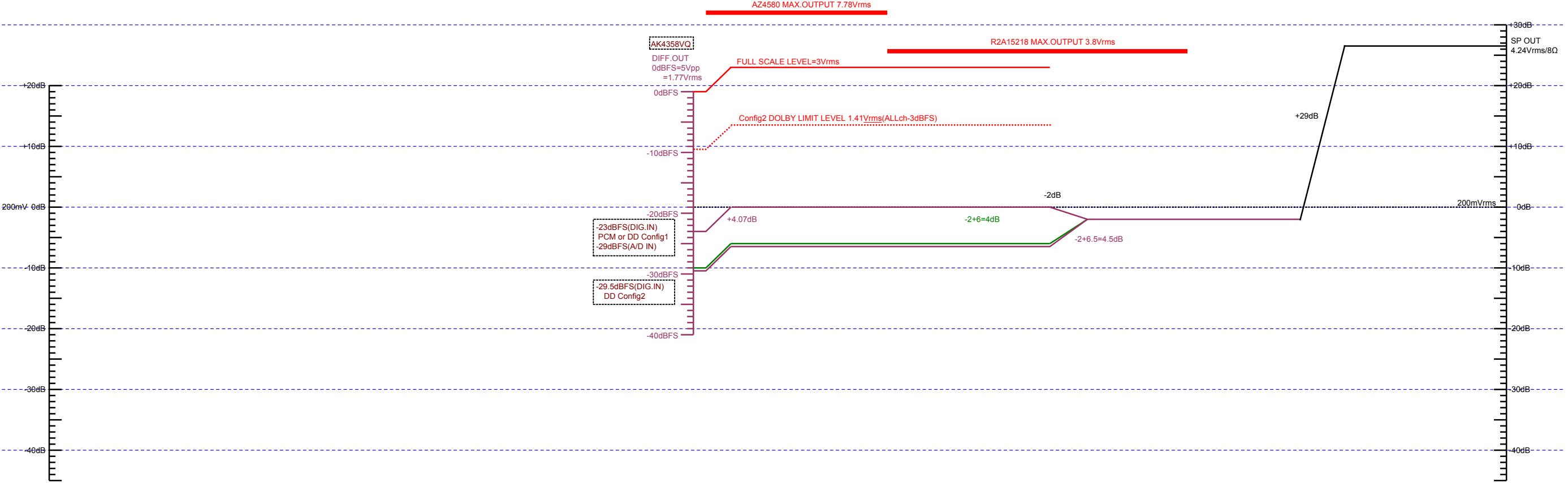
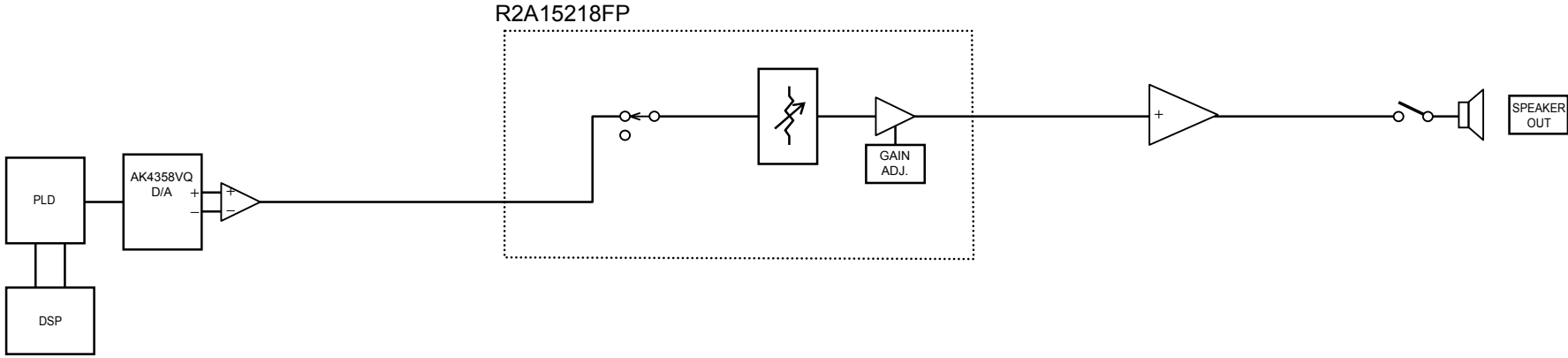
LEVEL DIAGRAM
CENTER ch



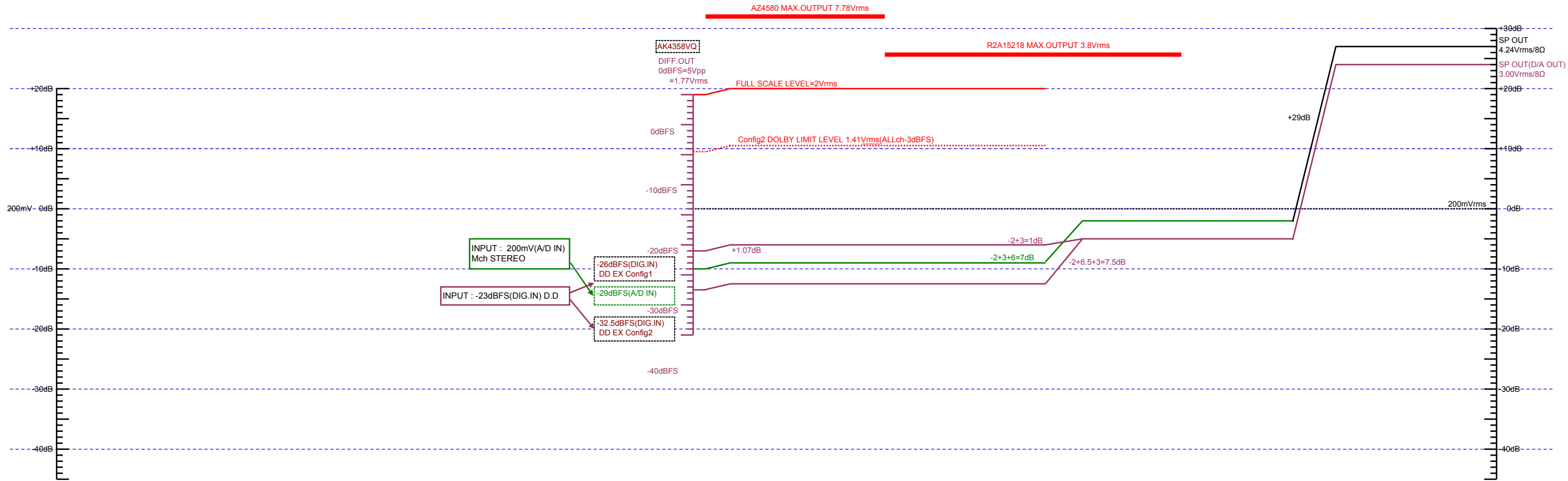
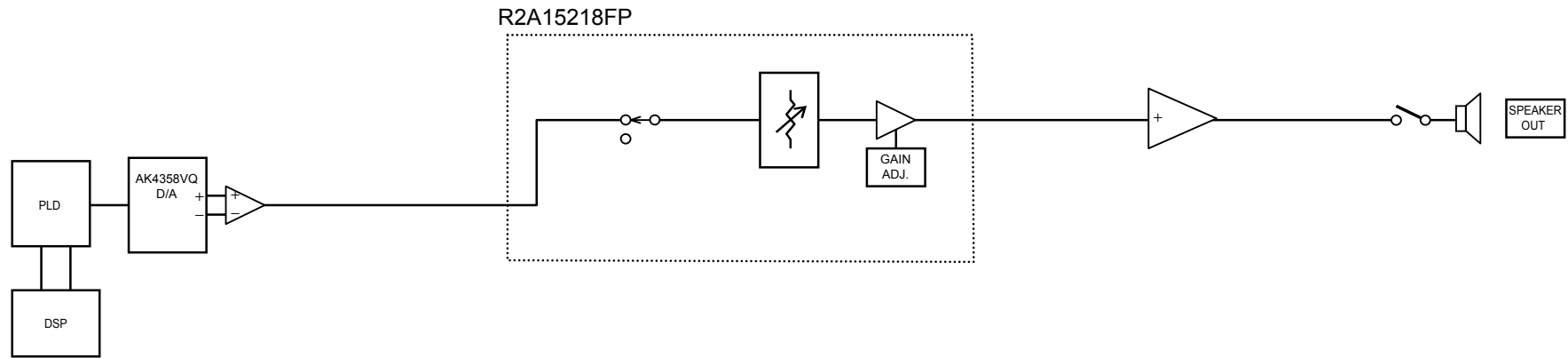
LEVEL DIAGRAM
SUBWOOFER ch



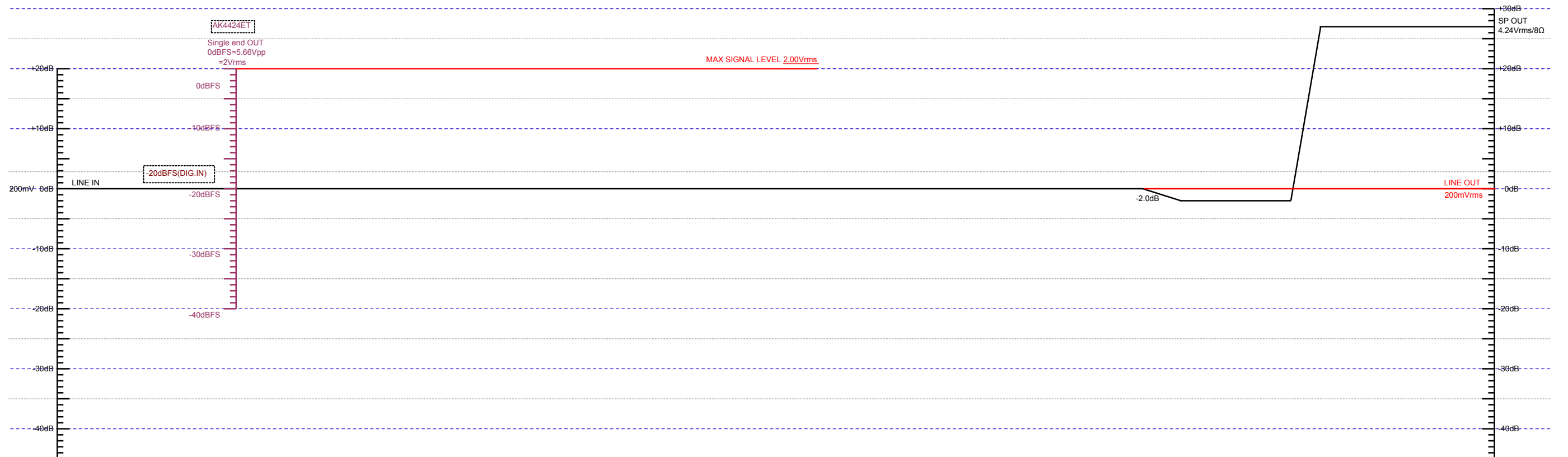
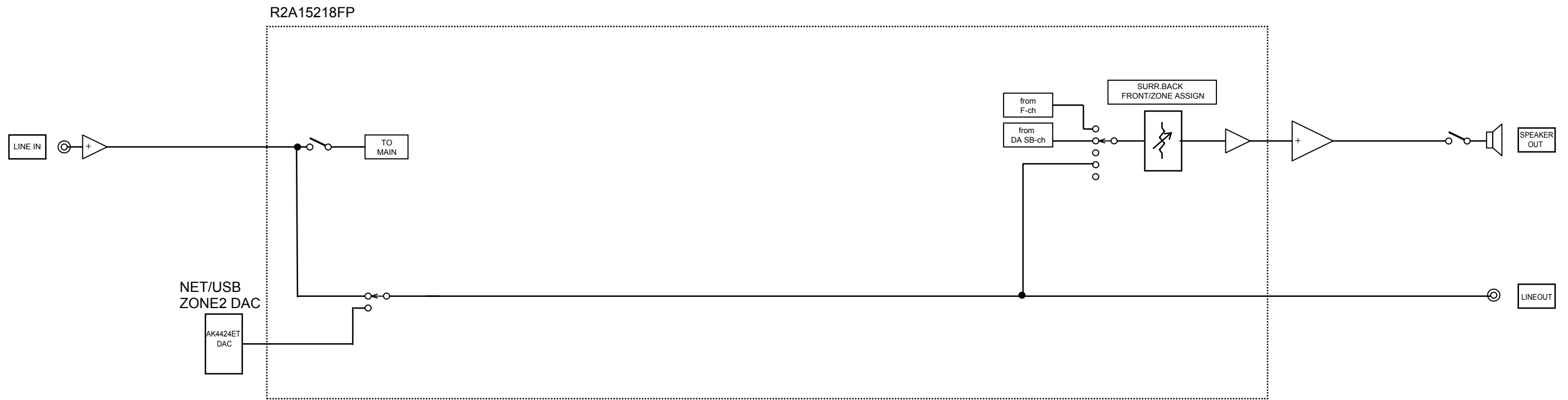
LEVEL DIAGRAM
SURROUND ch



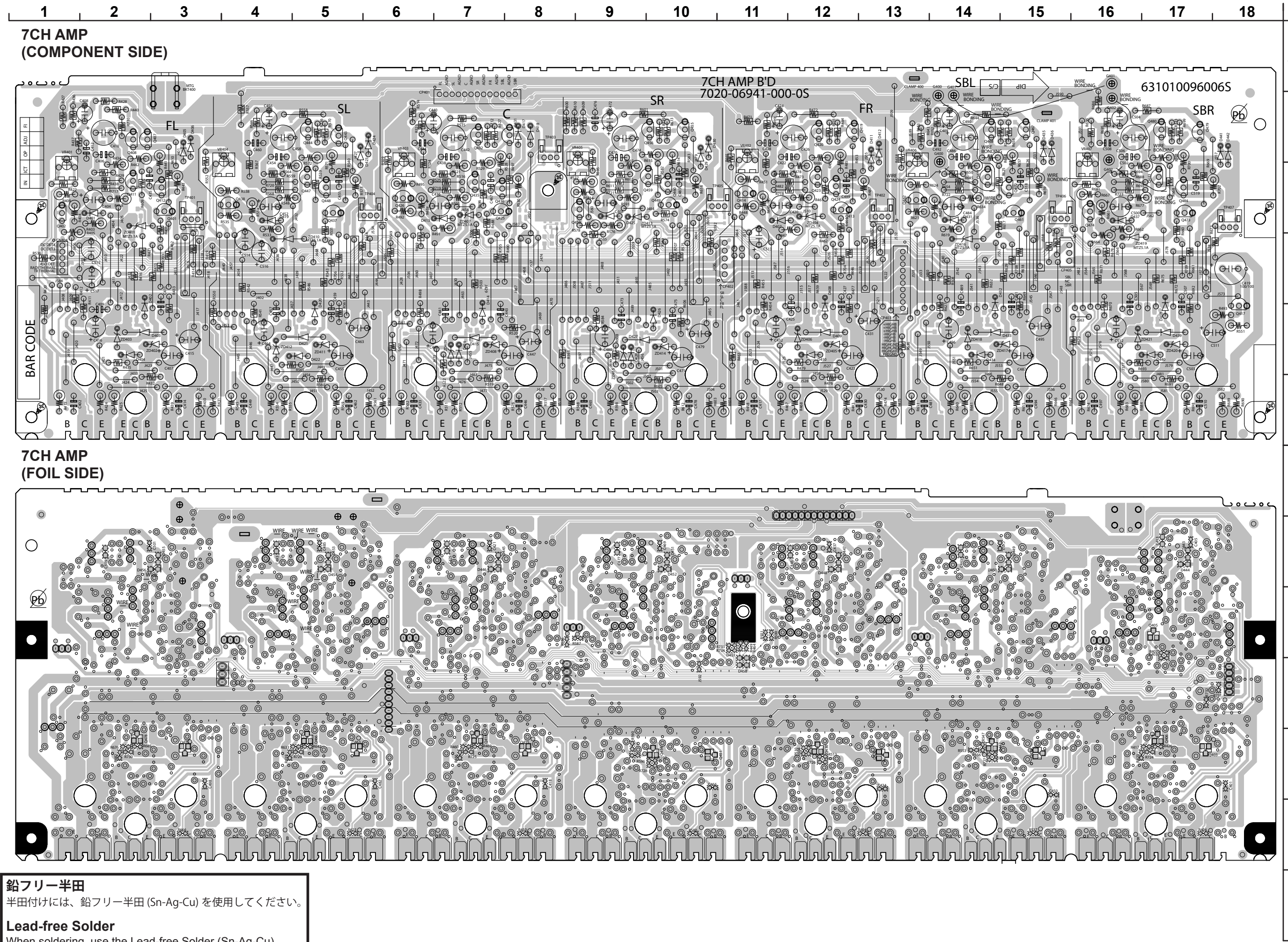
LEVEL DIAGRAM
SURR.BACK ch



LEVEL DIAGRAM ZONE2

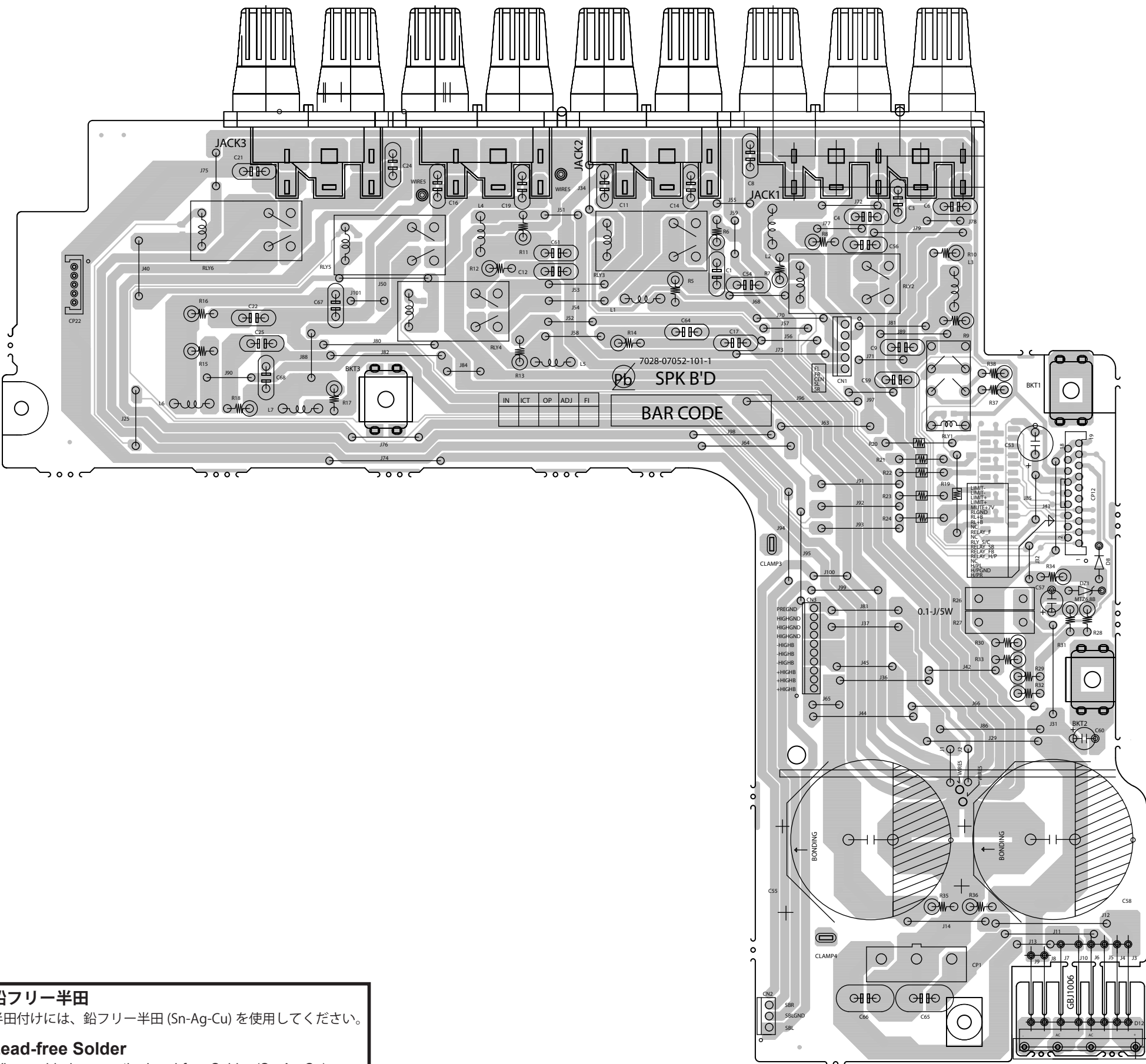


PRINTED WIRING BOARDS



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

SPK
(COMPONENT SIDE)



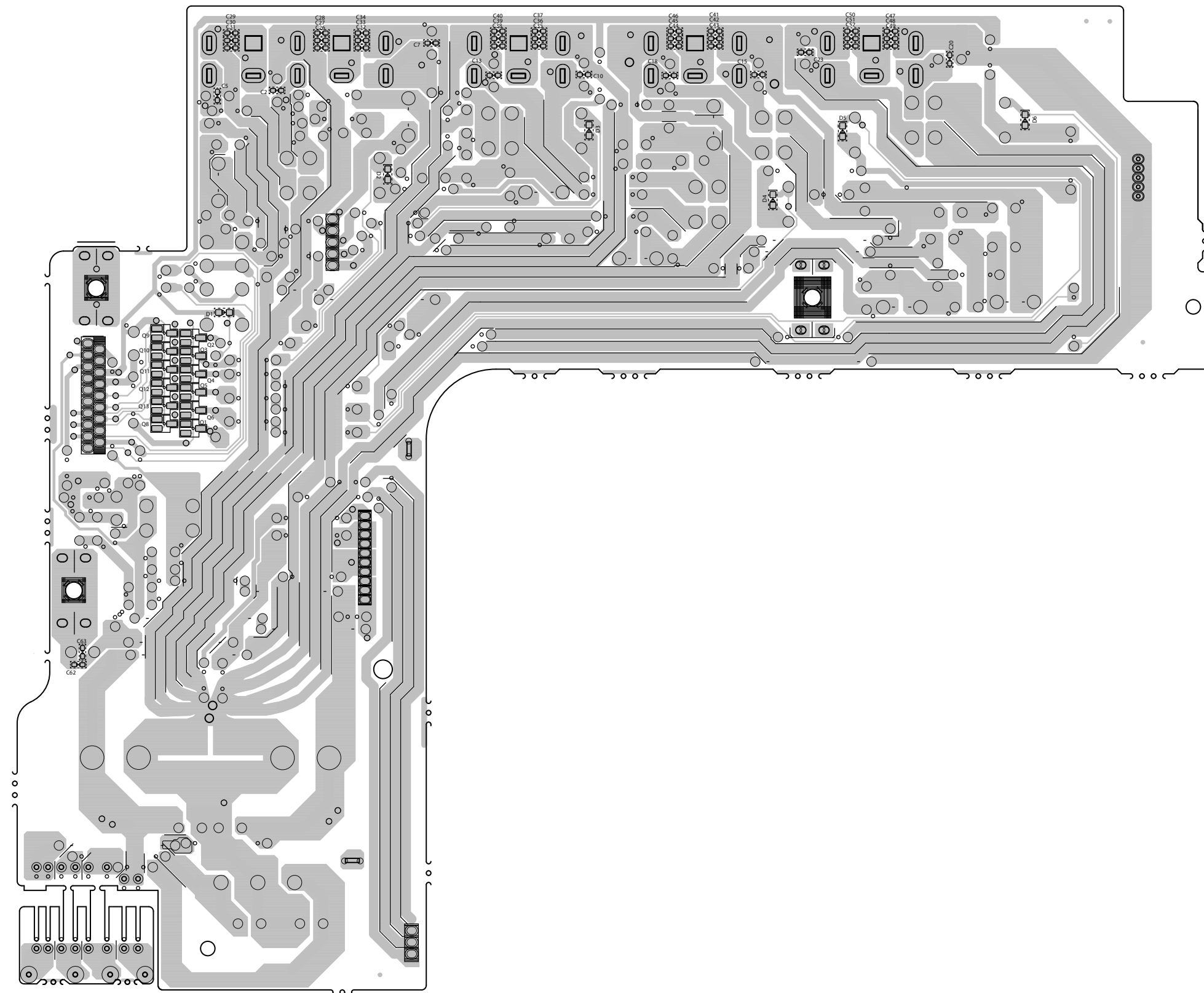
鉛フリー半田

半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder

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

**SPK
(FOIL SIDE)**



A

B

C

D

E

F

G

H

1

J

K

L

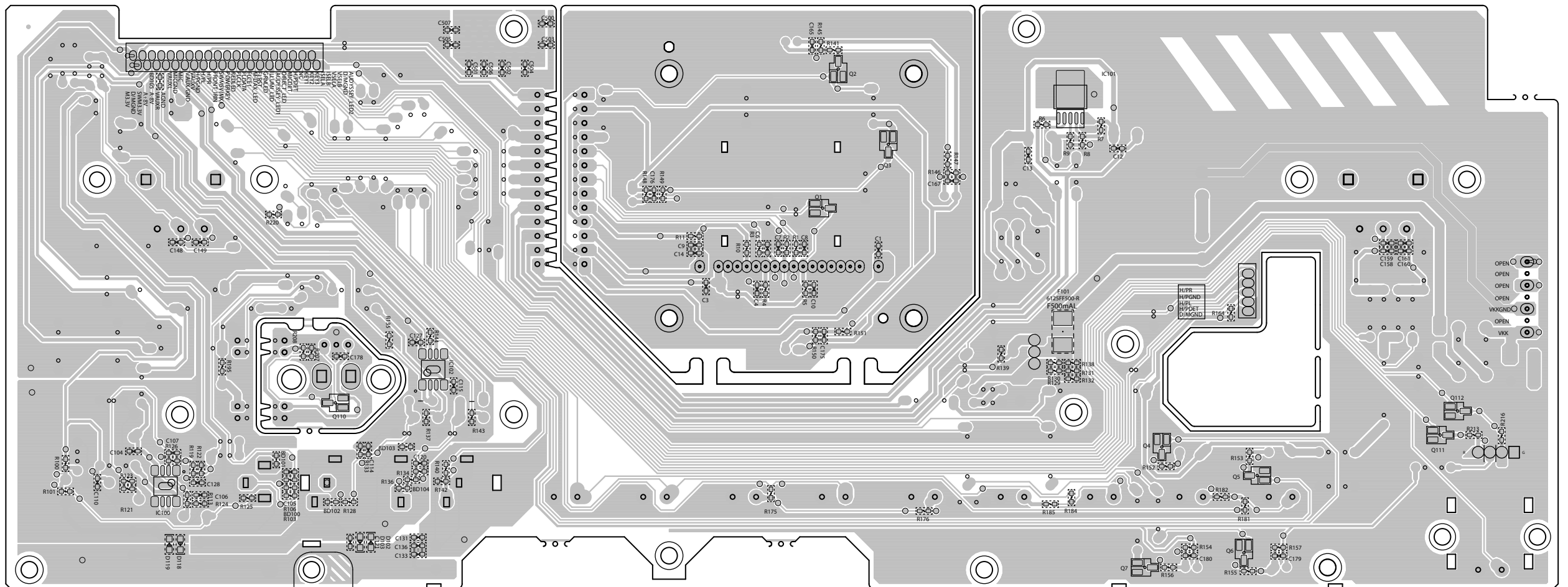
M

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).

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).



**FRONT
(FOIL SIDE)**



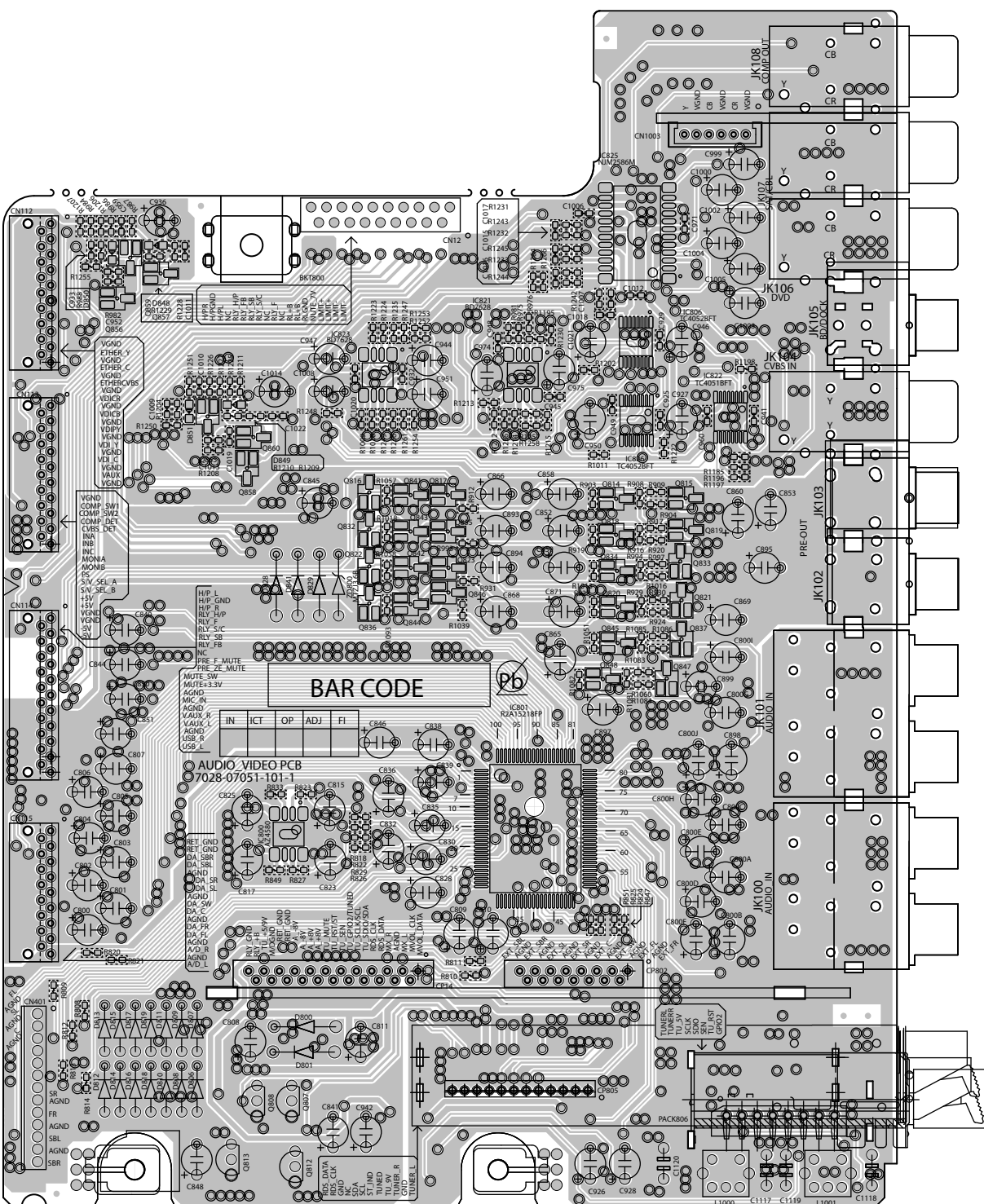
鉛フリー半田
半田付けには、鉛
フリー半田 (Sn-
Ag-Cu) を使用して
ください。

Lead-free Solder

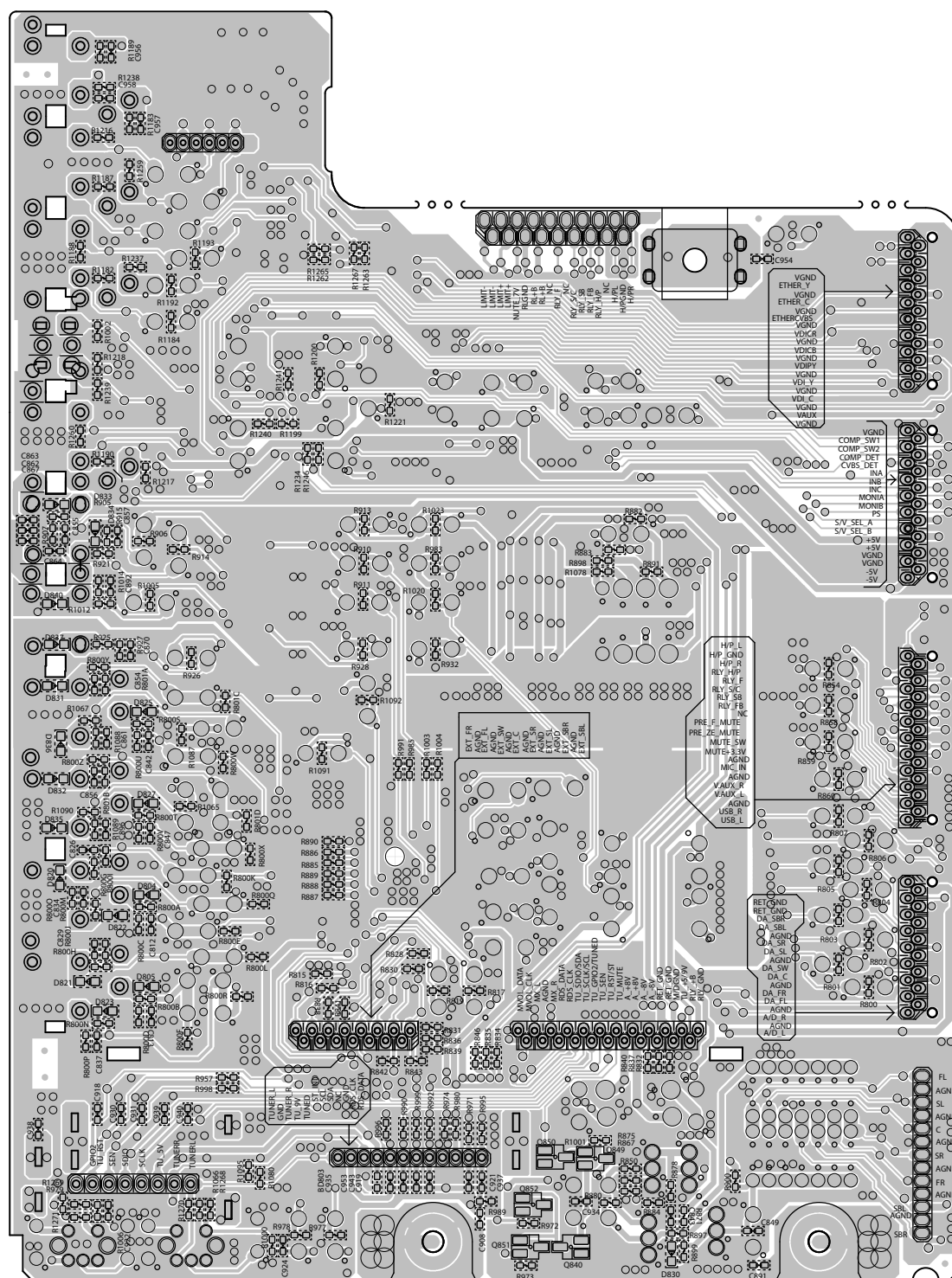
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

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

AV
(COMPONENT SIDE)



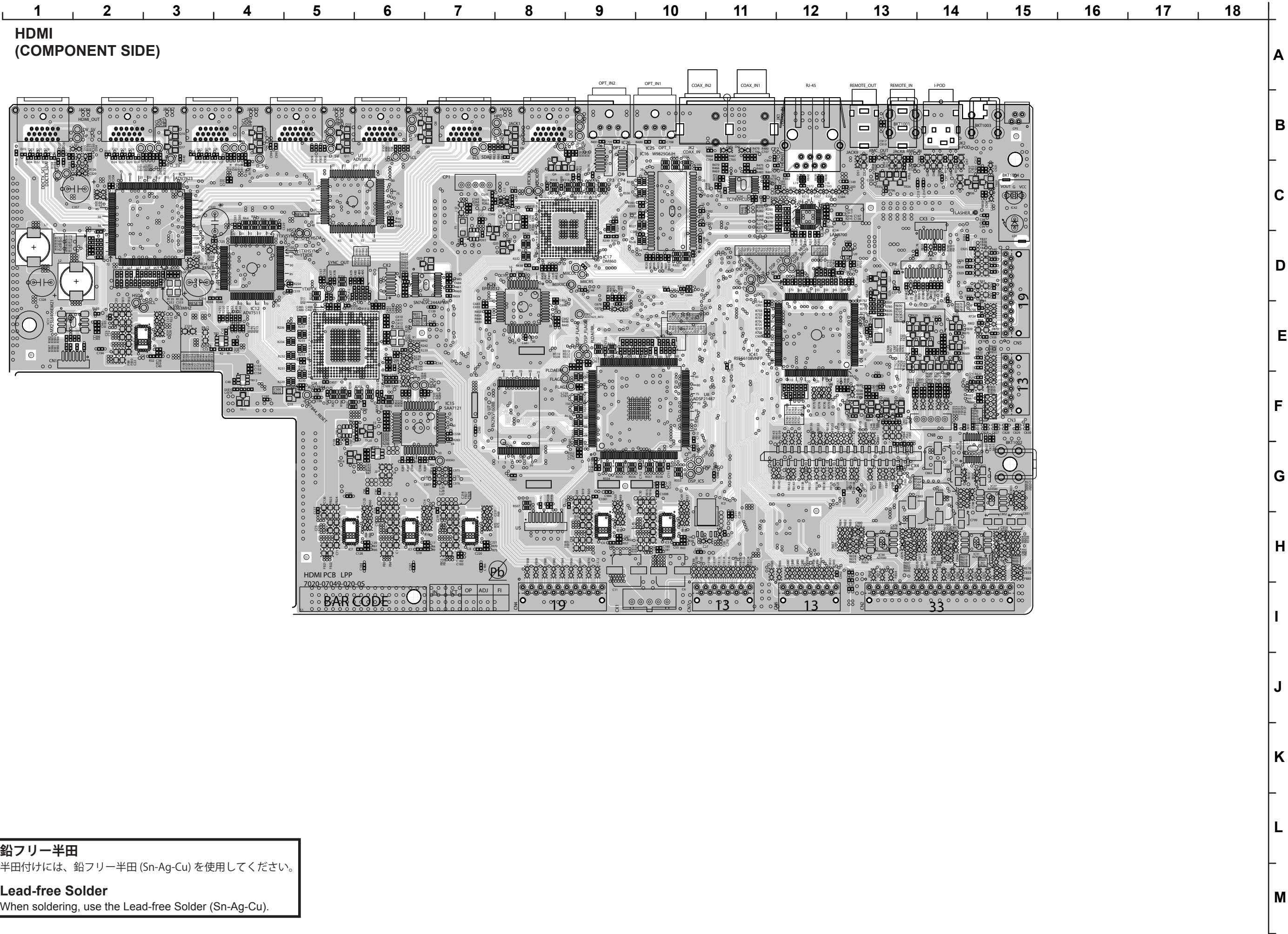
AV
(FOIL SIDE)

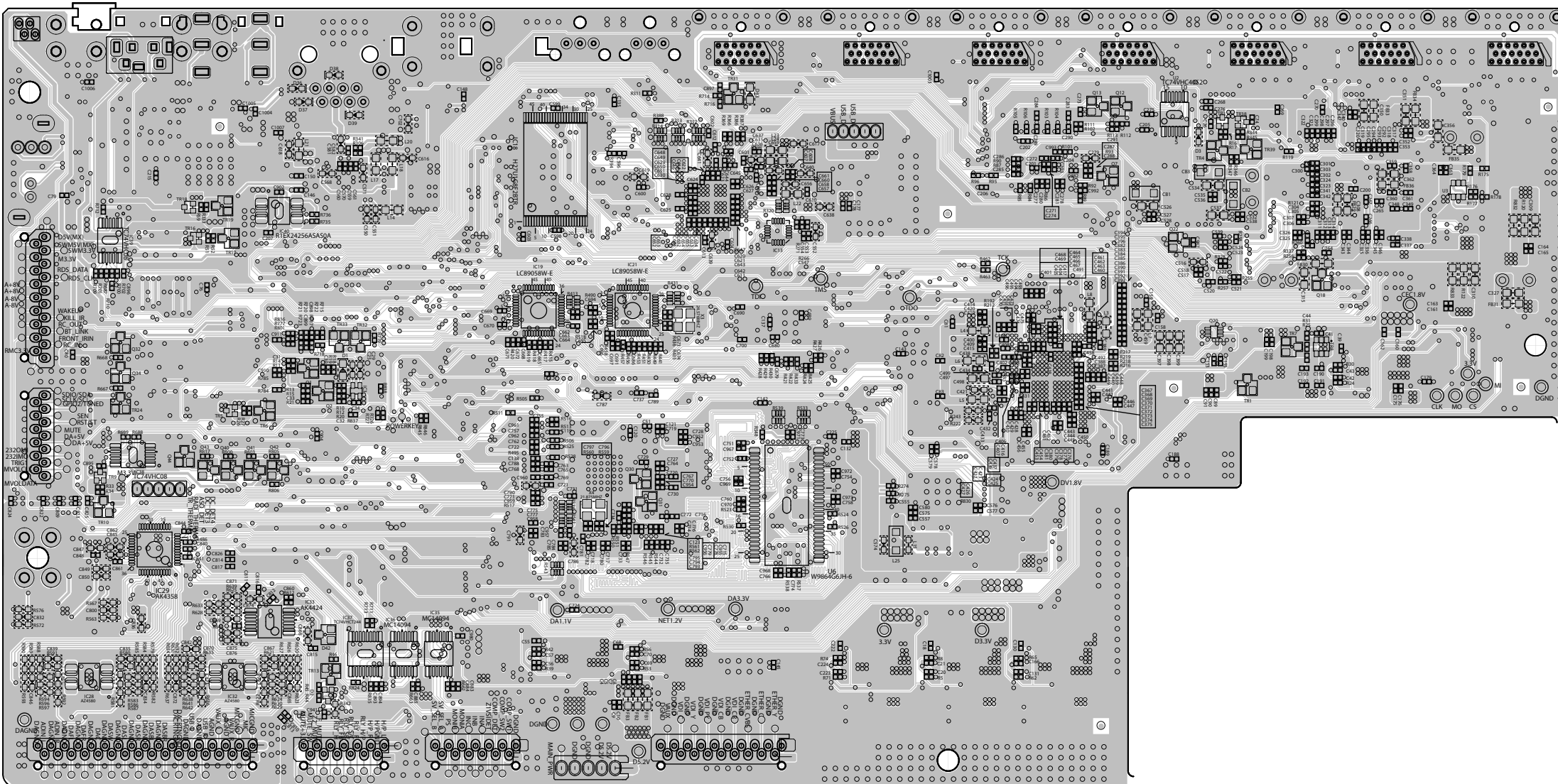


A
B
C
D
E
F
G
H
I
J
K
L
M

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).

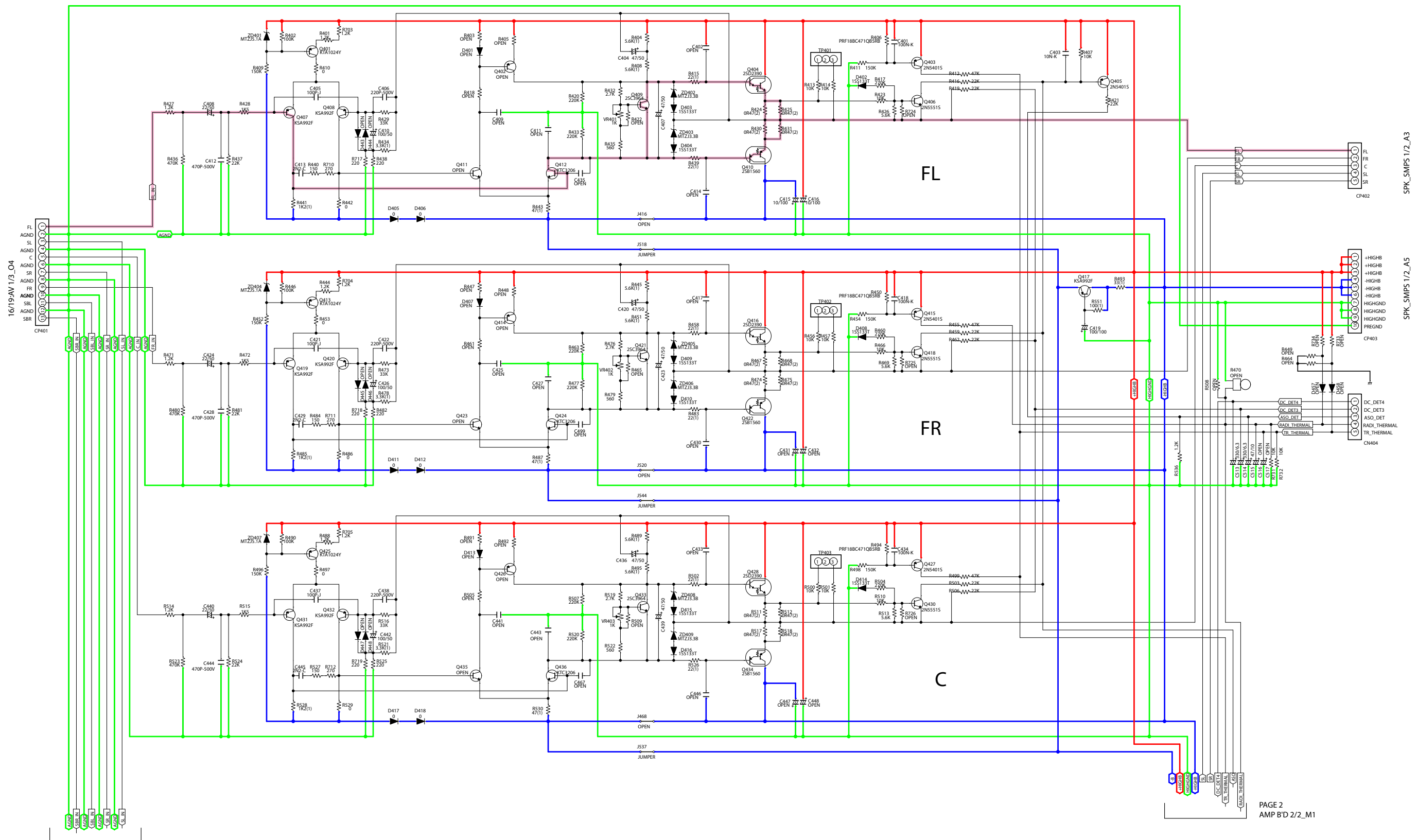




When soldering, use the Lead-free Solder (Sn-Ag-Cu).

AMP B'D 1/2

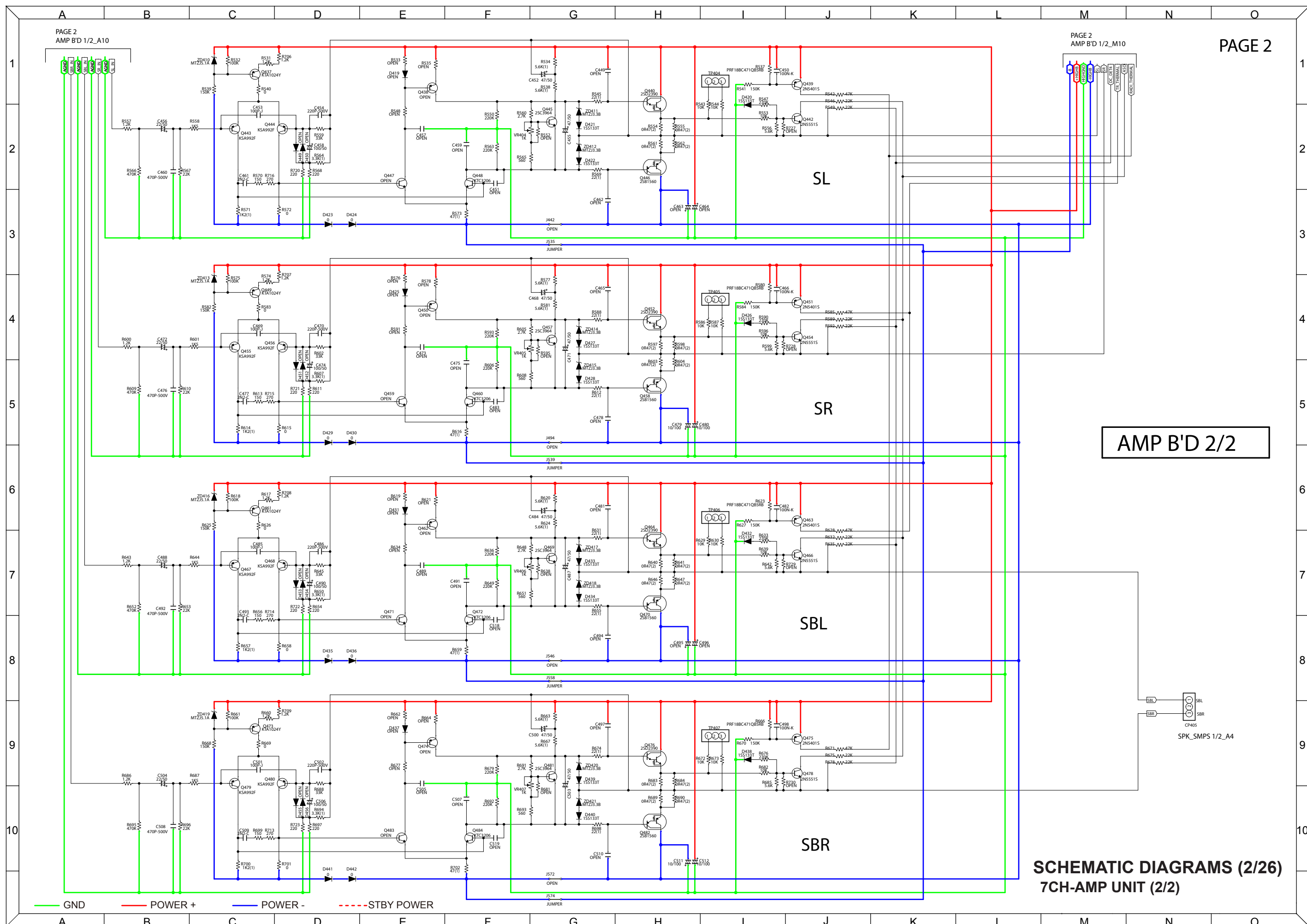
PAGE 1



PAGE 2
AMP B'D 2/2_A1

PAGE 2
AMP B'D 2/2_M1

SCHEMATIC DIAGRAMS (1/26)
7CH-AMP UNIT (1/2)



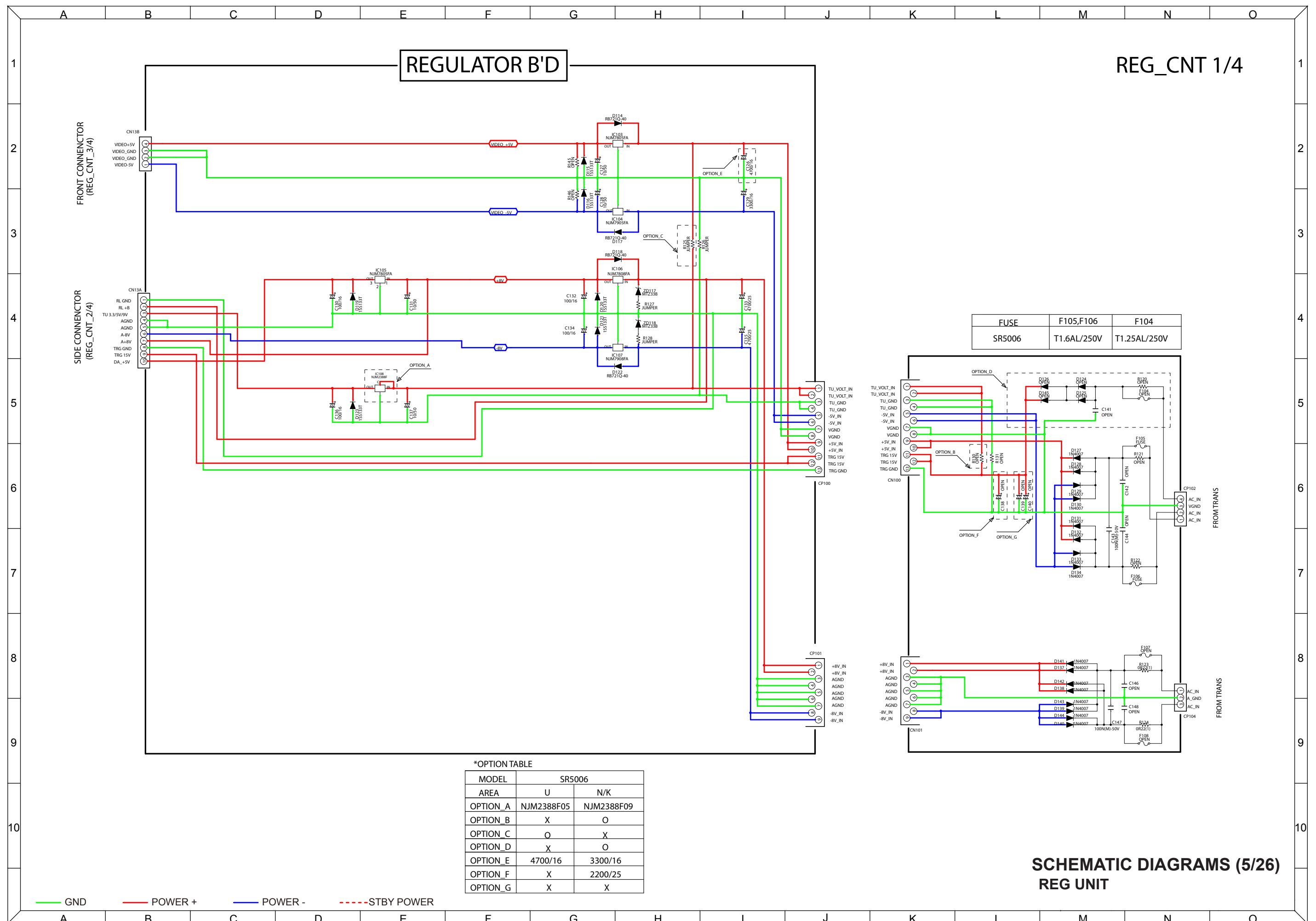
	U1B		FB		N1SG, N1B, K1B	
	F100	F101	F100	F101	F100	F101
NR1402	2A	6.3A	2A	6.3A	1.6A	3.15A
NR1602	2A	6.3A	2A	6.3A	1.6A	3.15A
SR5006	2A	6.3A	X	X	1.6A	3.15A

	ZD108	ZD109	ZD110	ZD111	ZD113	ZD116	ZD119	ZD101	ZD103	ZD105	R101	R104	R105	R114	C131	C133
U	MTZJ398	MTZJ398	MTZJ228	JUMPER	JUMPER	JUMPER	JUMPER	MTZJ398	MTZJ398	MTZJ398	2M2 (5)	2M2 (5)	1M (5)	270K	OPEN	OPEN
N	1M (5)	1M (5)	MTZJ398	MTZJ398	MTZJ398	MTZJ398	MTZJ398	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	56K	0.01	0.01
F	MTZJ398	MTZJ398	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	MTZJ398	MTZJ398	MTZJ398	2M2 (5)	2M2 (5)	1M (5)	270K	OPEN	OPEN

SCHEMATIC DIAGRAMS (4/26)

SMPS UNIT

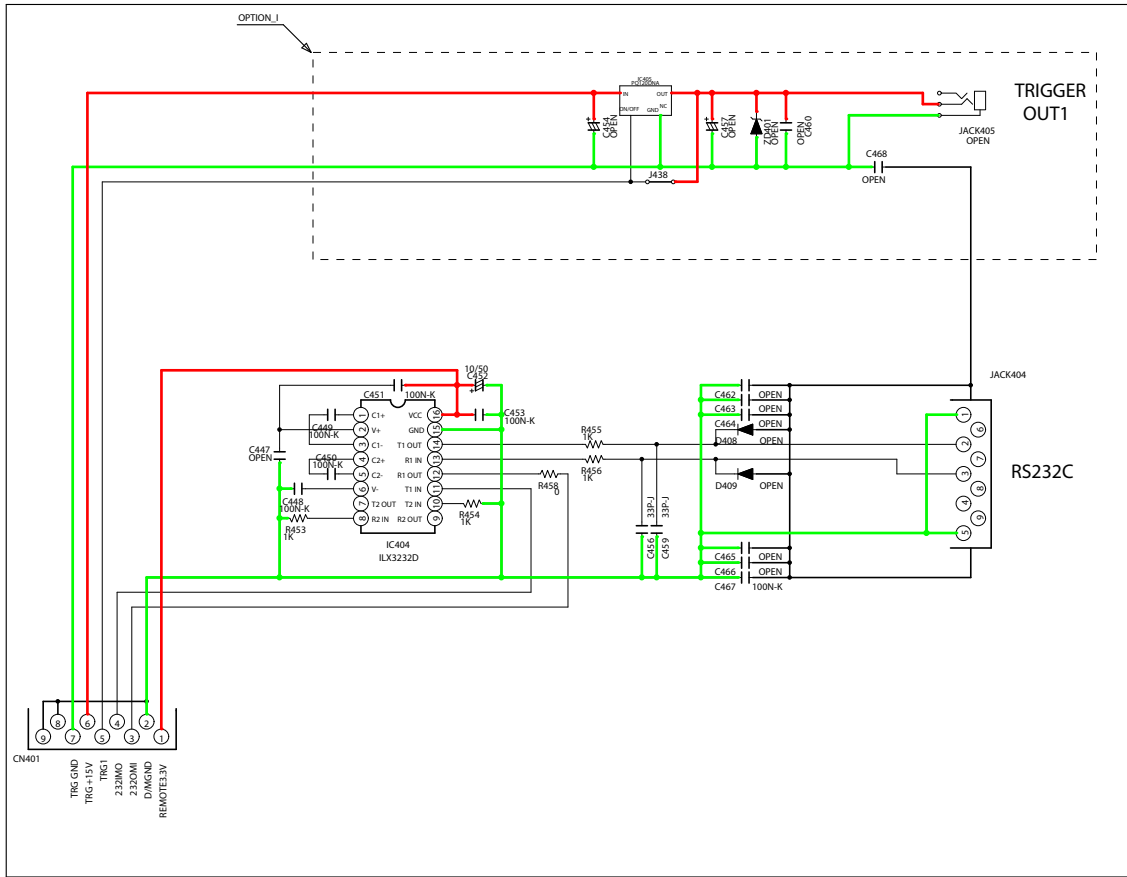
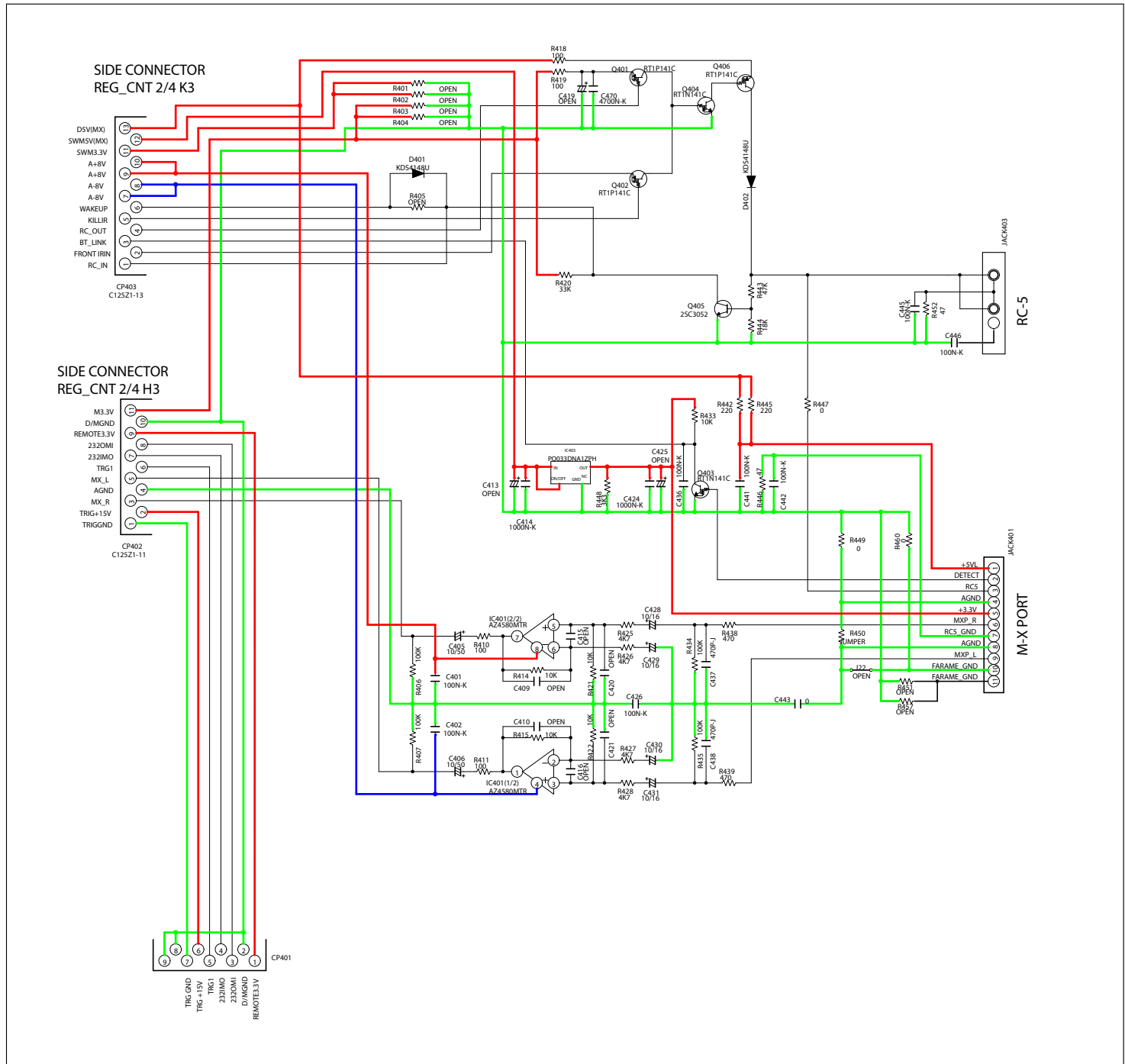
109



REG_CNT 4/4

RC-5/M-X PORT

RS232/TRIGGER



MODEL	SR5006
AREA	U1B N1B K1B
OPTION I	X

SCHEMATIC DIAGRAMS (8/26)
RC5_MX UNIT)
RS232C UNIT

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

SPK_SMPS_EXT_IN 3/3

EXT.IN

REG_CNT 2/4 K8



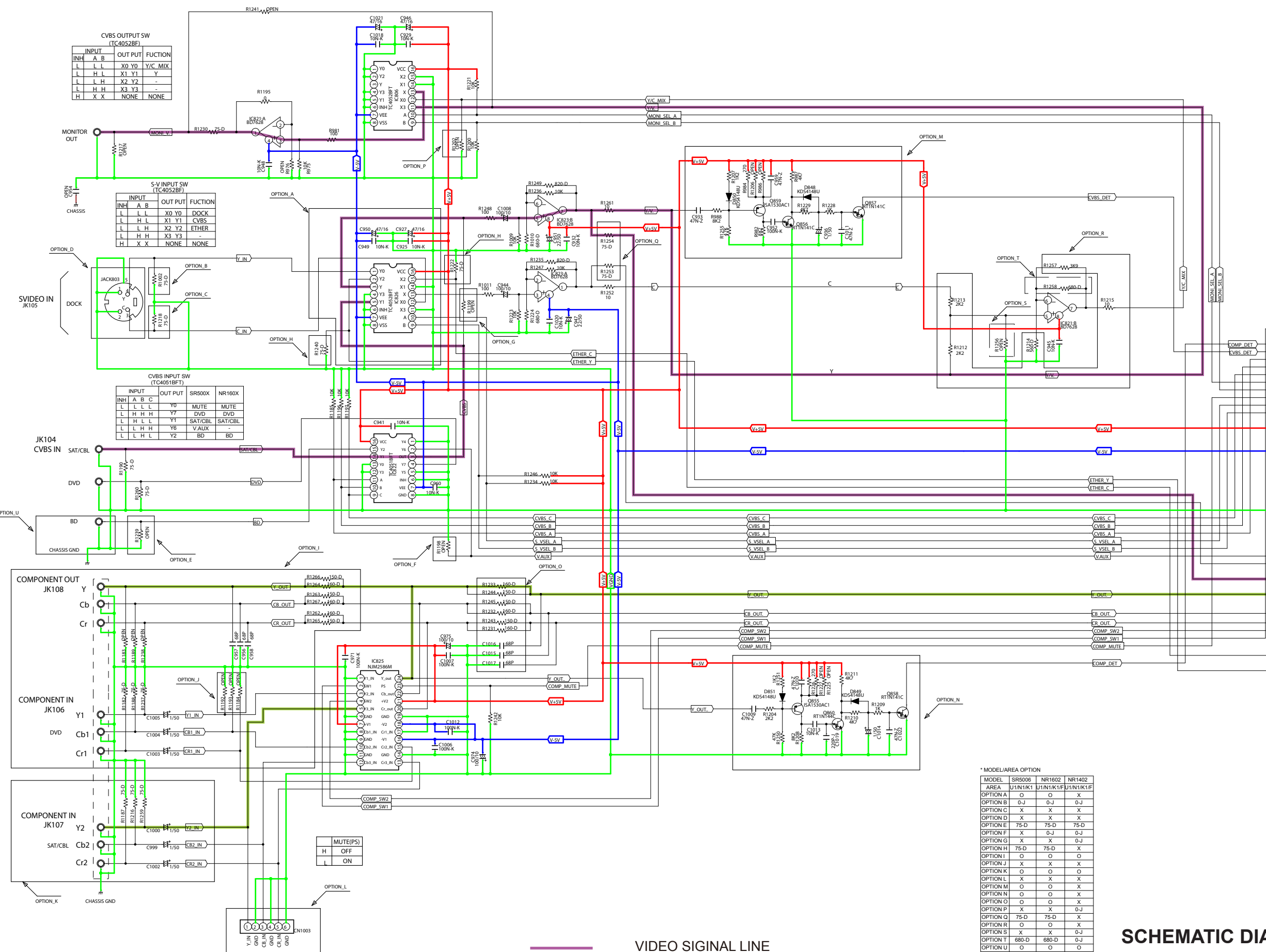
JACK4

JACK5

SCHEMATIC DIAGRAMS (9/26)
EXT_IN UNIT

GND POWER + POWER - STBY POWER ANALOG AUDIO SIGNAL LINE

AV 2/3



CVBS OUTPUT SW (TC4052BF)

INPUT	OUT PUT	FUNCTION
L L L	X0 Y0	Y/C MIX
L H L	X1 Y1	Y
L L H	X2 Y2	-
L H H	X3 Y3	-
H X X	NONE	NONE

S-V INPUT SW (TC4052BF)

INPUT	OUT PUT	FUNCTION
L L L	X0 Y0	DOCK
L H L	X1 Y1	CVBS
L L H	X2 Y2	ETHER
L H H	X3 Y3	-
H X X	NONE	NONE

CVBS INPUT SW (TC4051BFT)

INPUT	OUT PUT	SR500X	NR160X
L L L L	Y0	MUTE	MUTE
L H H H	Y7	DVD	DVD
L L H L	Y1	SAT/CBL	SAT/CBL
L L H H	Y6	V.AUX	-
L L L L	Y2	BD	BD

MUTE(PS)

H	OFF
L	ON

REG_CNT 3/4 F8

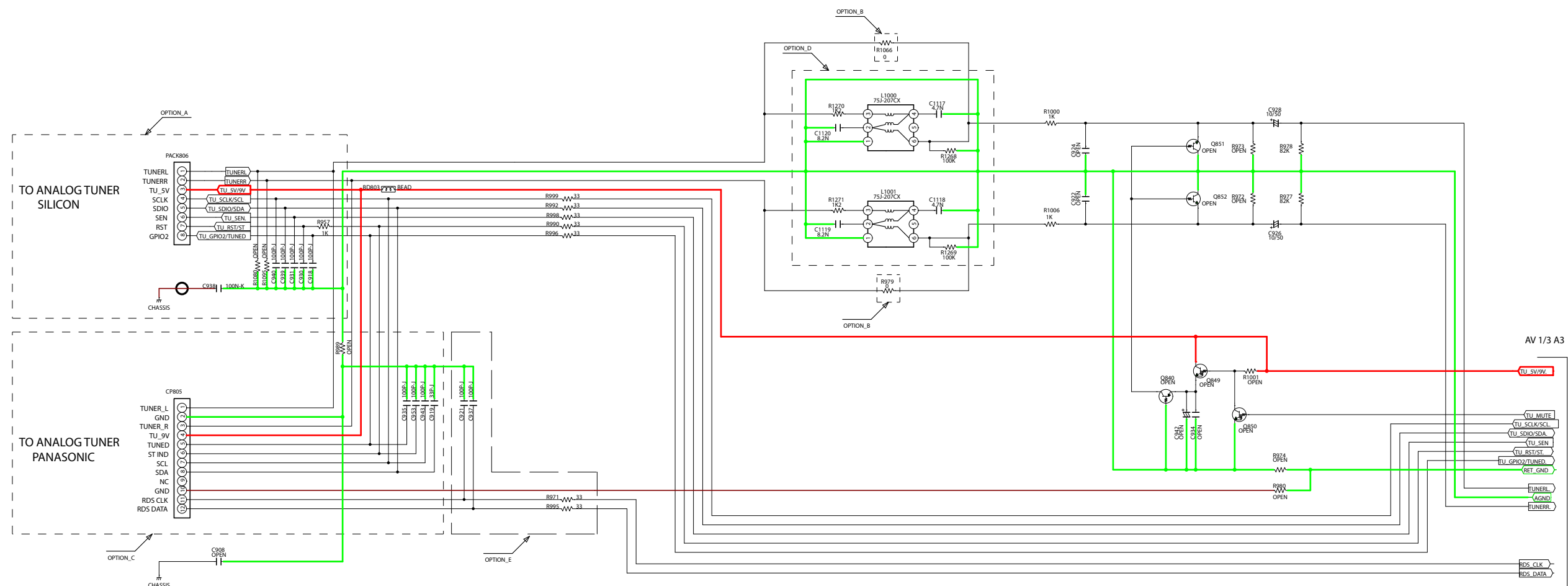
REG_CNT 3/4 C8

* MODEL/AREA OPTION

MODEL	SR5006	NR1602	NR1402
AREA	U1/N1K1	U1/N1K1F	U1/N1K1F
OPTION A	O	O	X
OPTION B	0-J	0-J	0-J
OPTION C	X	X	X
OPTION D	X	X	X
OPTION E	75-D	75-D	75-D
OPTION F	X	0-J	0-J
OPTION G	X	X	0-J
OPTION H	75-D	75-D	X
OPTION I	O	O	O
OPTION J	X	X	X
OPTION K	O	O	O
OPTION L	X	X	X
OPTION M	O	O	X
OPTION N	O	O	X
OPTION O	O	O	X
OPTION P	X	X	0-J
OPTION Q	75-D	75-D	X
OPTION R	O	O	X
OPTION S	X	X	0-J
OPTION T	680-D	680-D	0-J
OPTION U	O	O	O

SCHEMATIC DIAGRAMS (11/26)
AUDIO_VIDEO UNIT (2/3)

AV 3/3

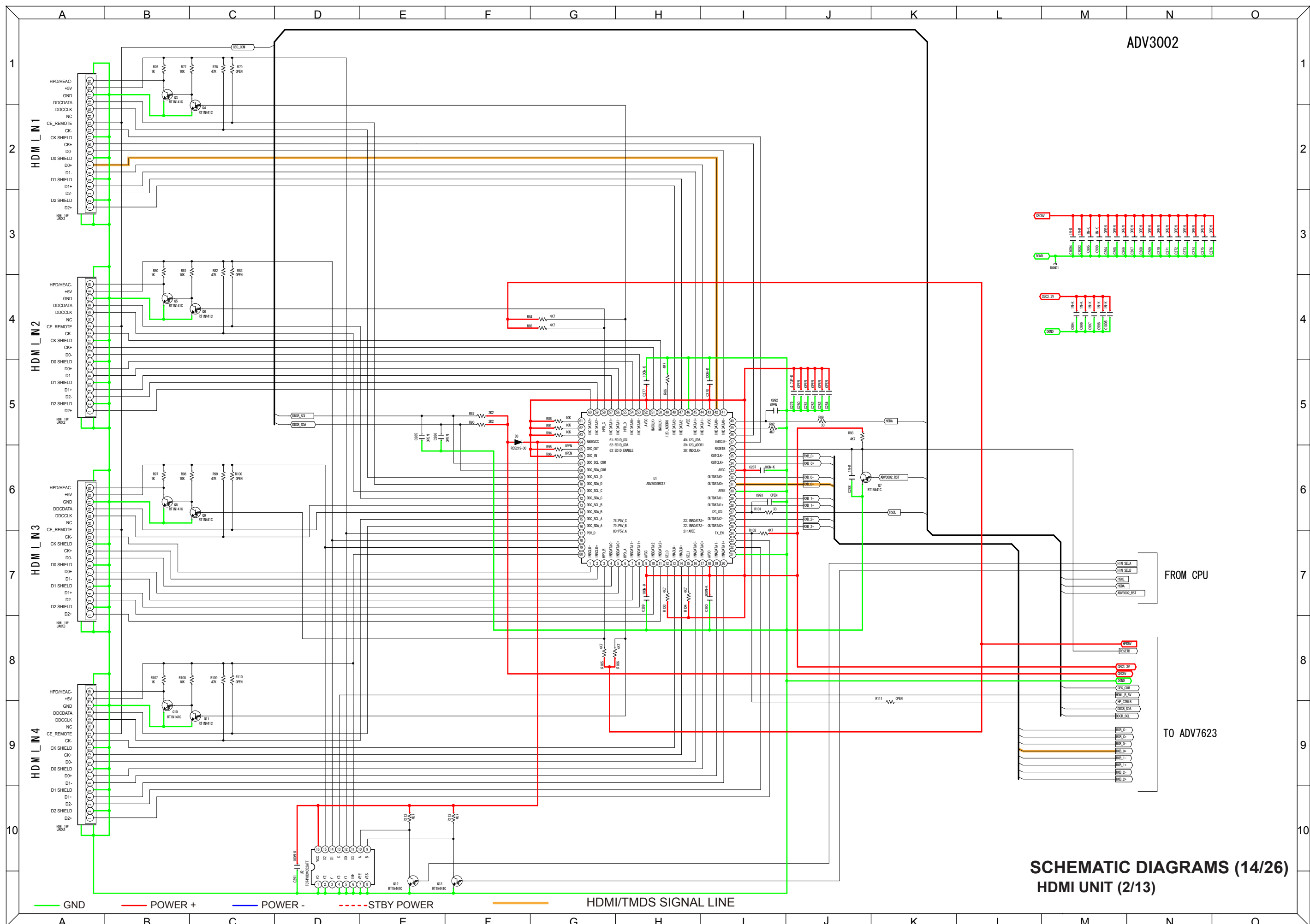


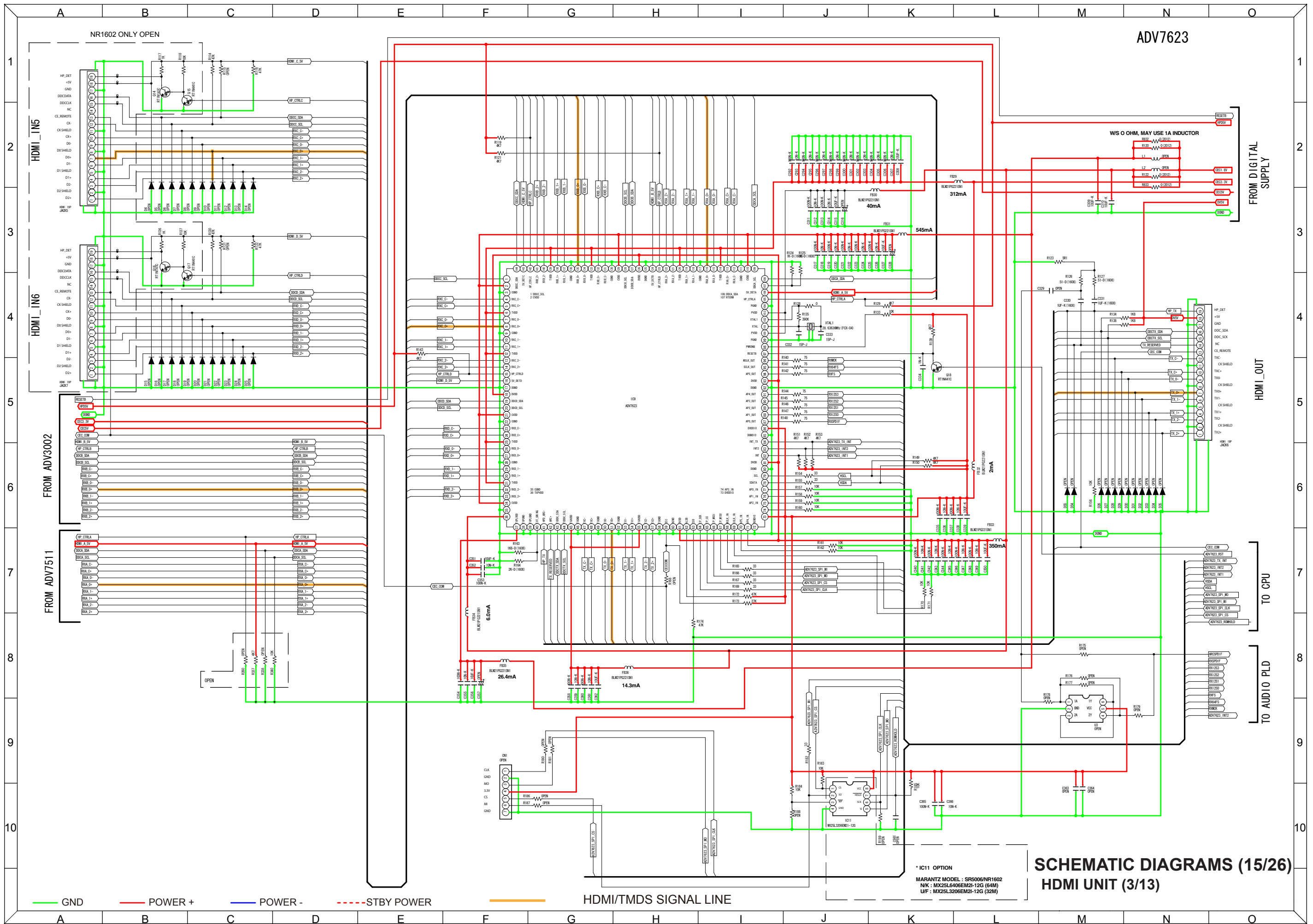
MODEL	SR5006			NR1602/1402		
AREA	U	N	K	U	N	K
OPTION A	O	X	X	O	X	X
OPTION B	O	X	O	O	X	O
OPTION C	X	O	O	X	O	O
OPTION D	X	O	X	X	O	X
OPTION E	X	O	X	X	O	X

SCHEMATIC DIAGRAMS (12/26)
AUDIO_VIDEO UNIT (3/3)

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





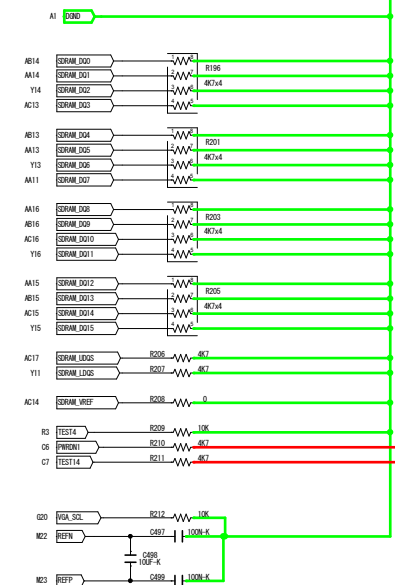
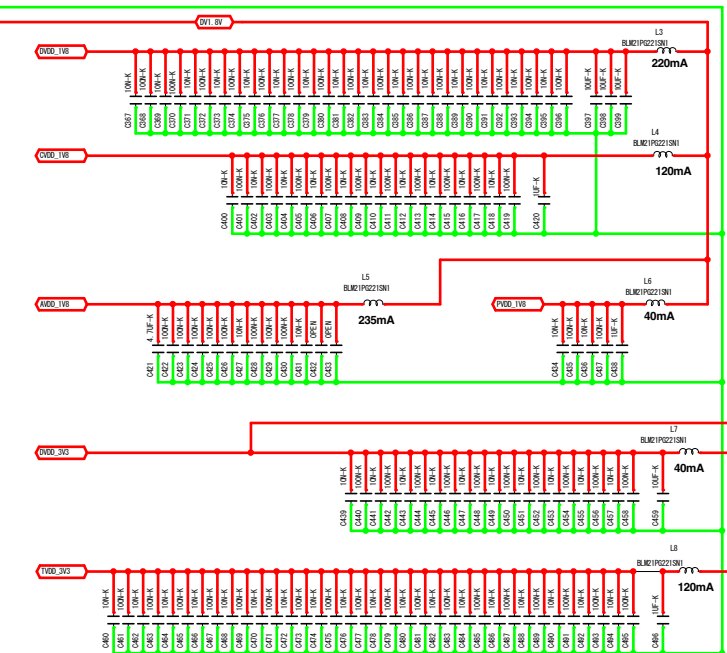
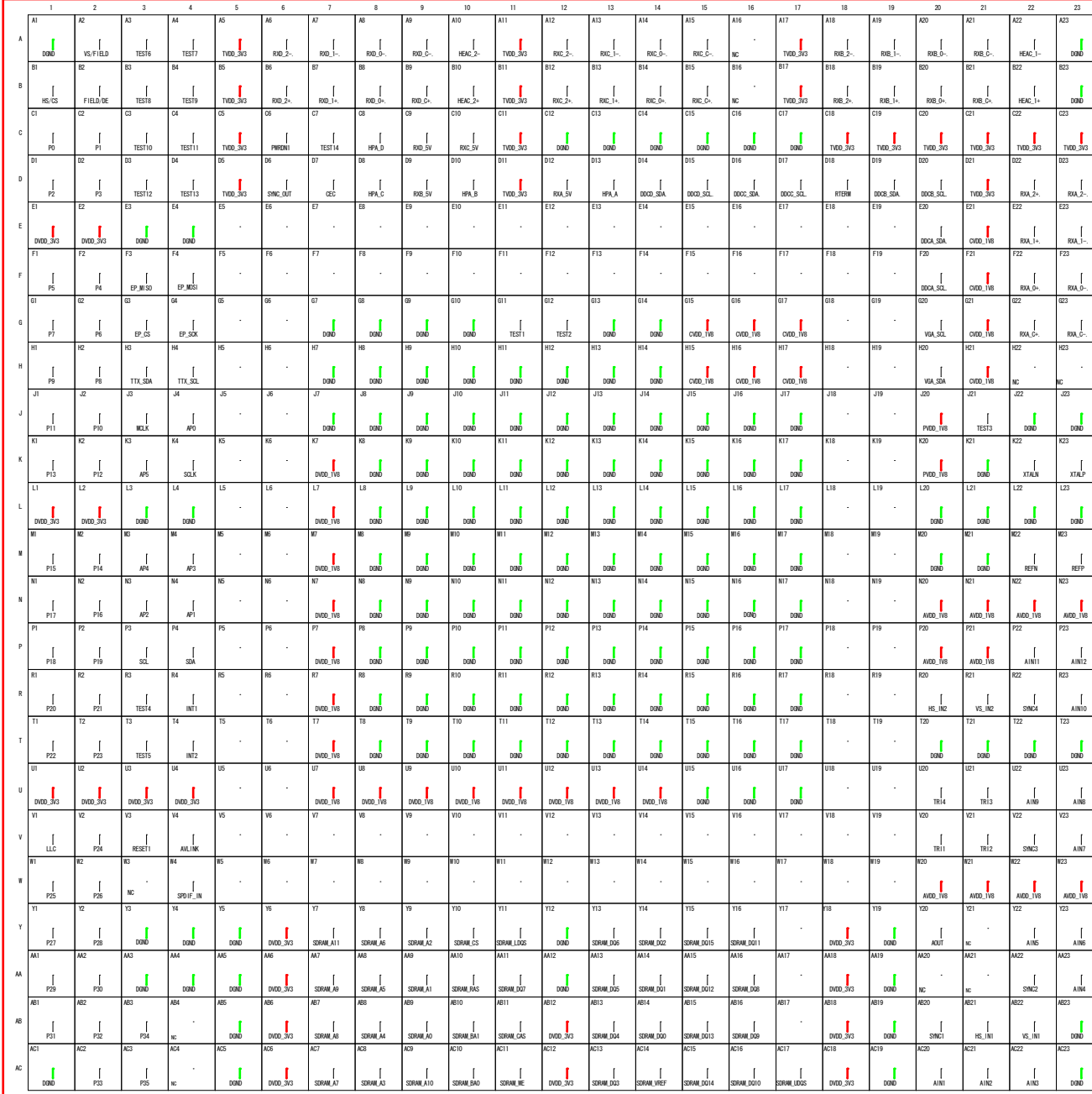


ADV7844

TO DIGITAL SUPPLY

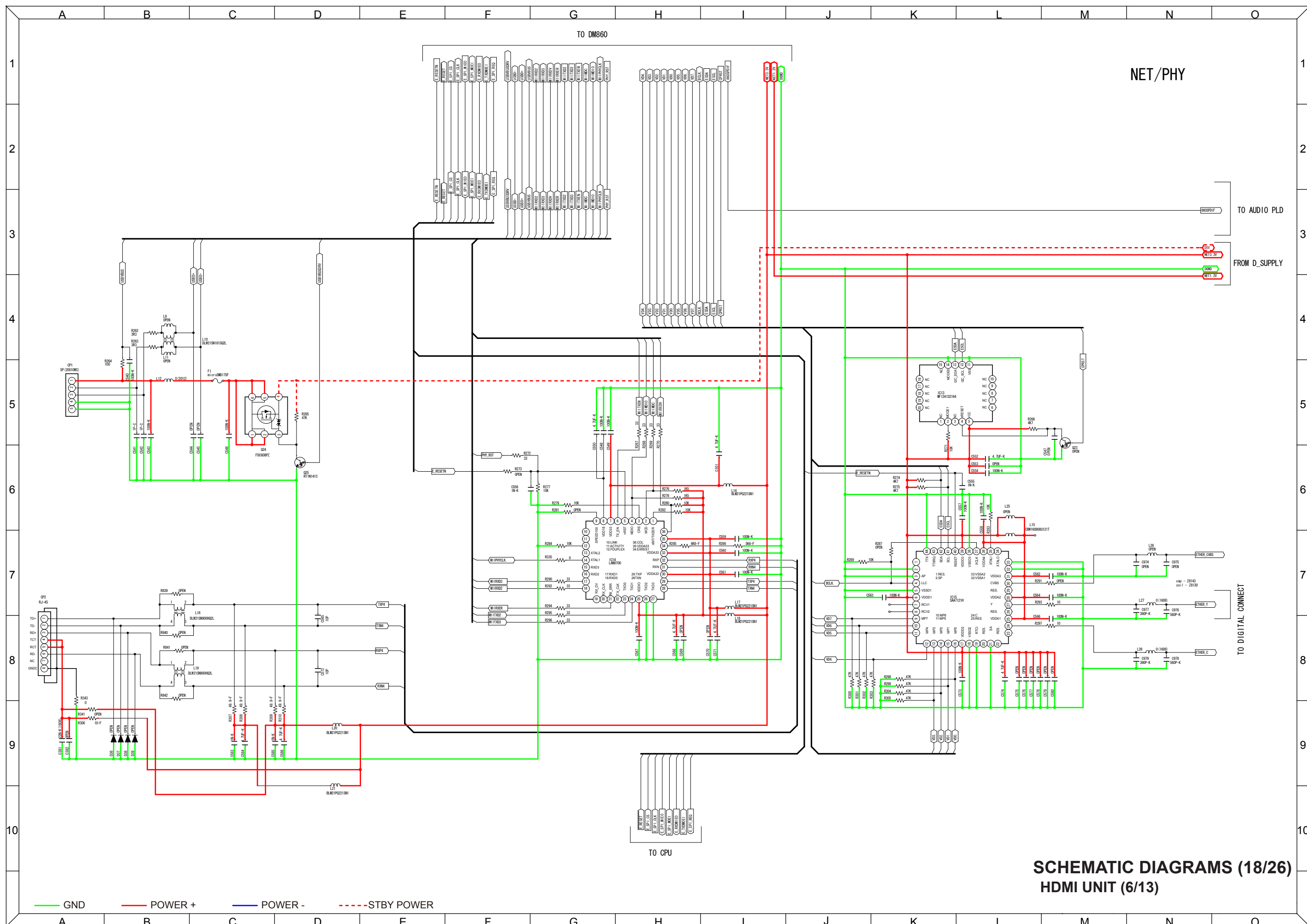
TO DIGITAL CONNECT

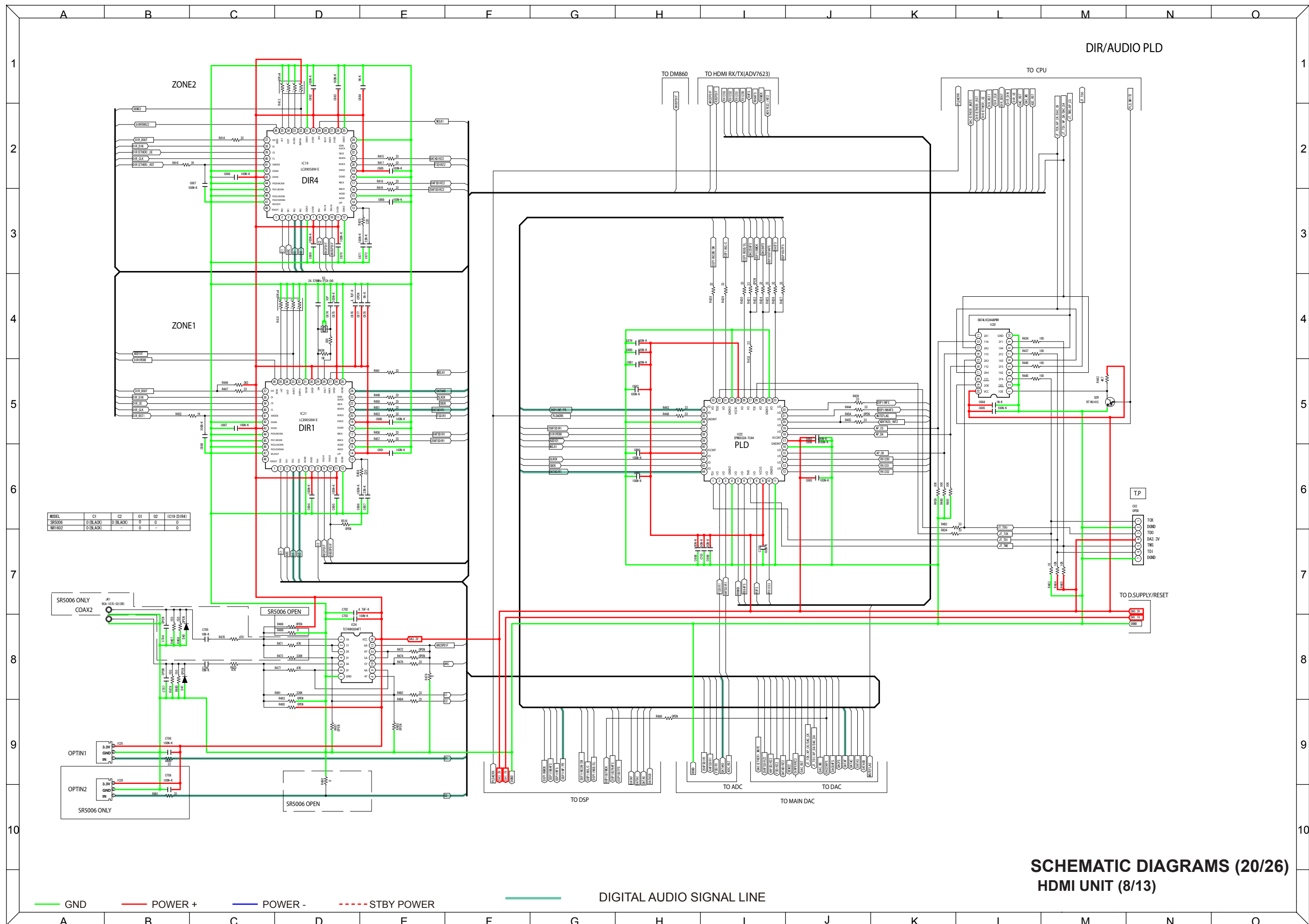
GND POWER + POWER - STBY POWER



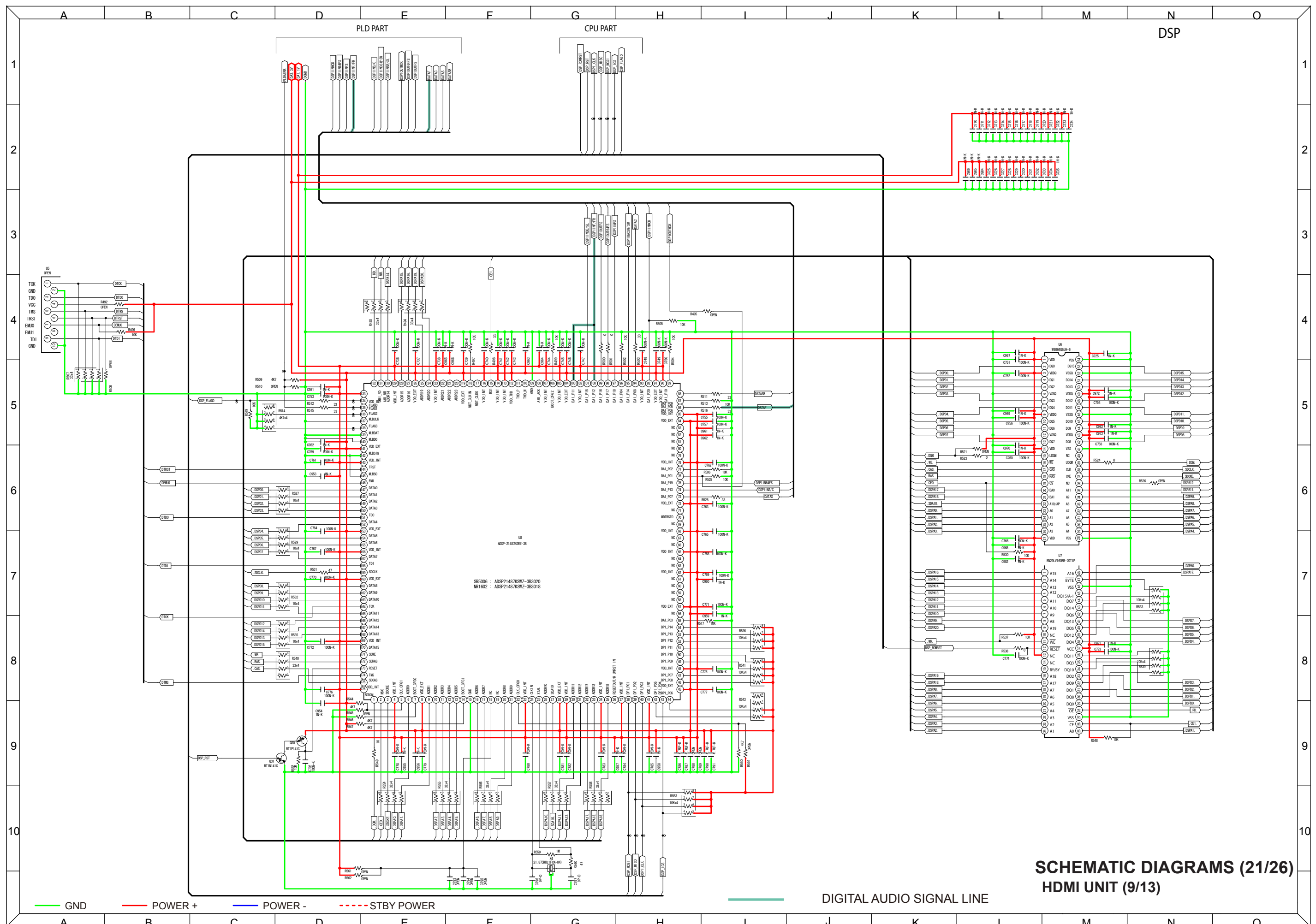
SCHEMATIC DIAGRAMS (16/26)
HDMI UNIT (4/13)

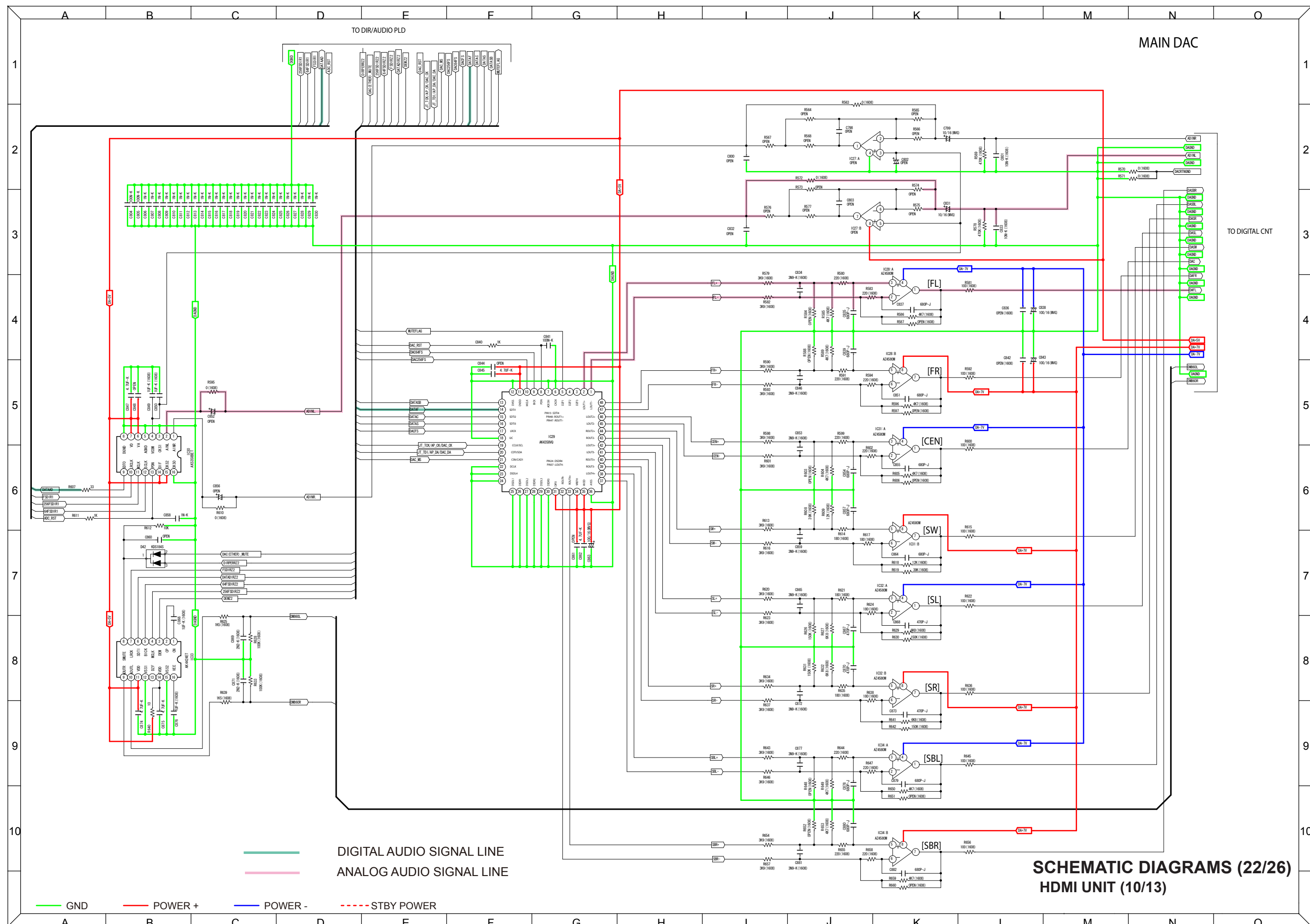




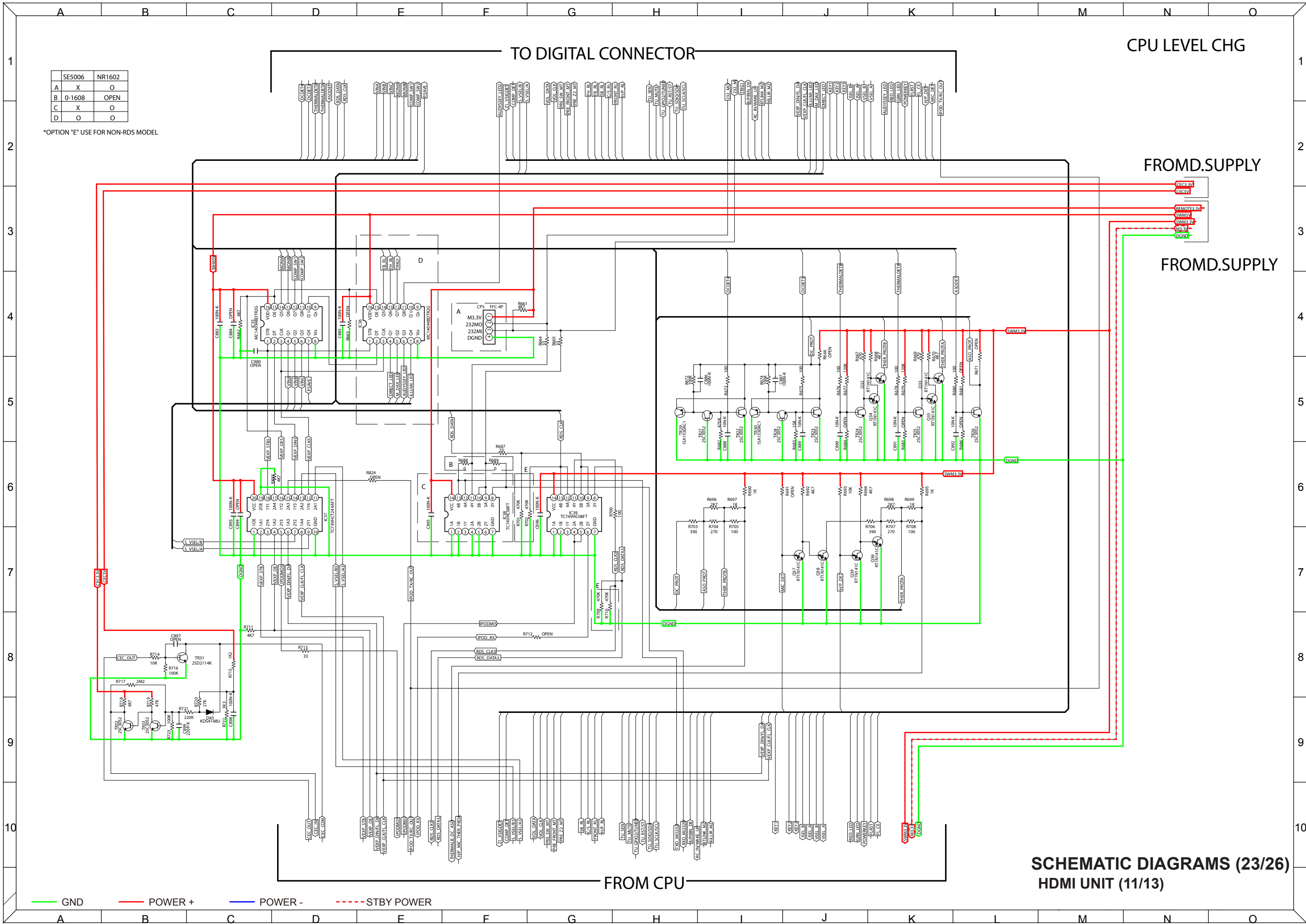


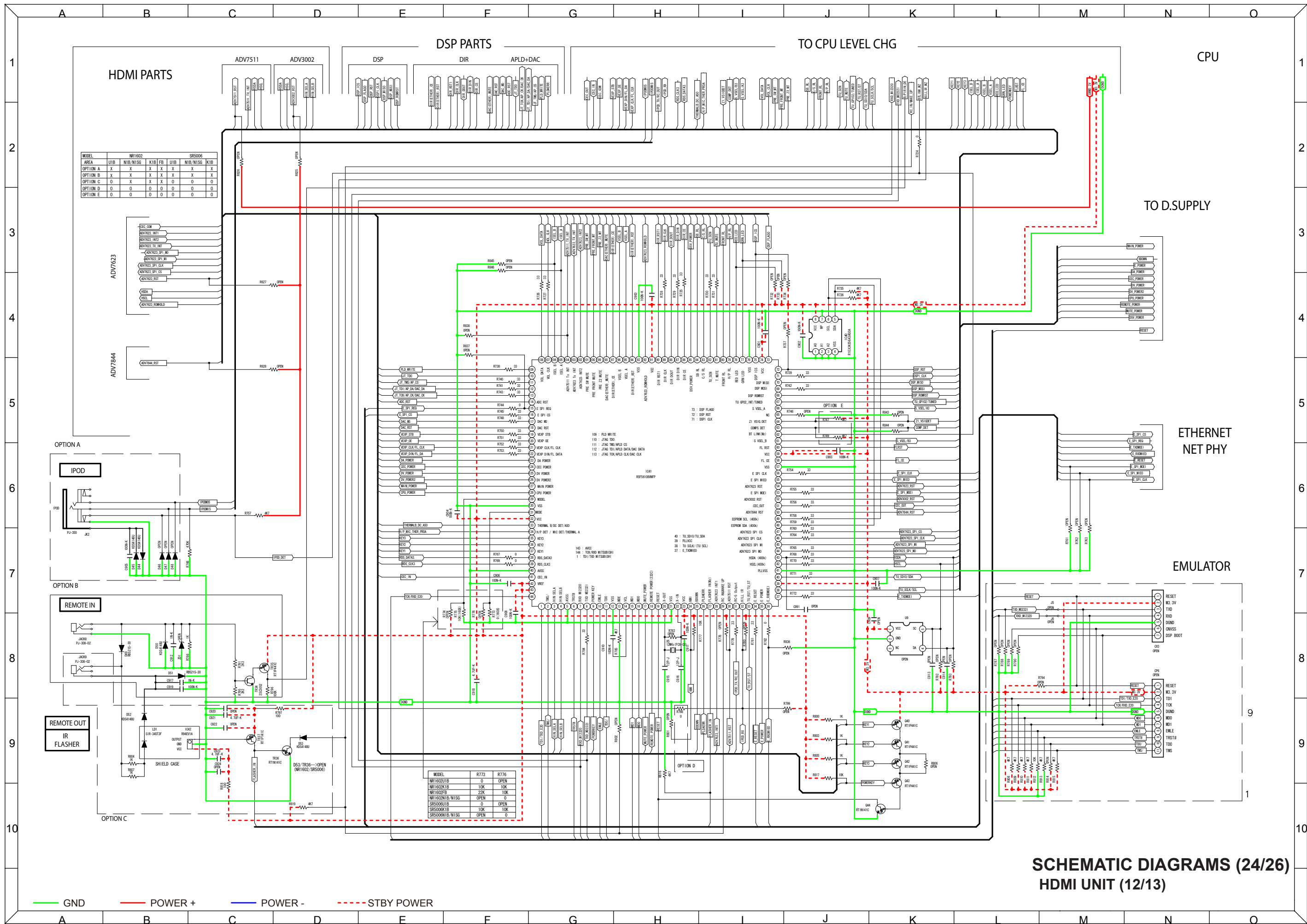
SCHEMATIC DIAGRAMS (20/26)
HDMI UNIT (8/13)



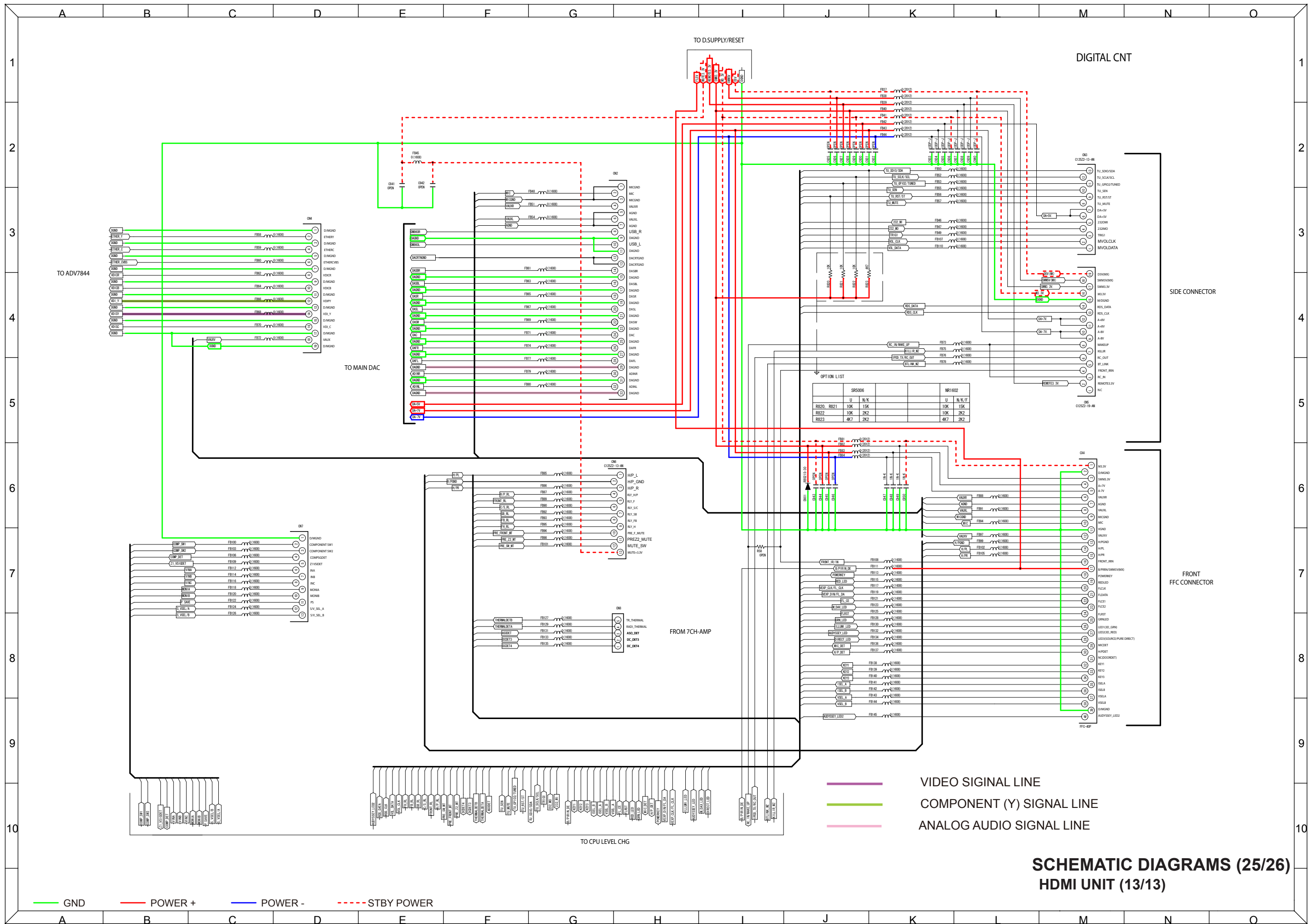


SCHEMATIC DIAGRAMS (22/26)
HDMI UNIT (10/13)

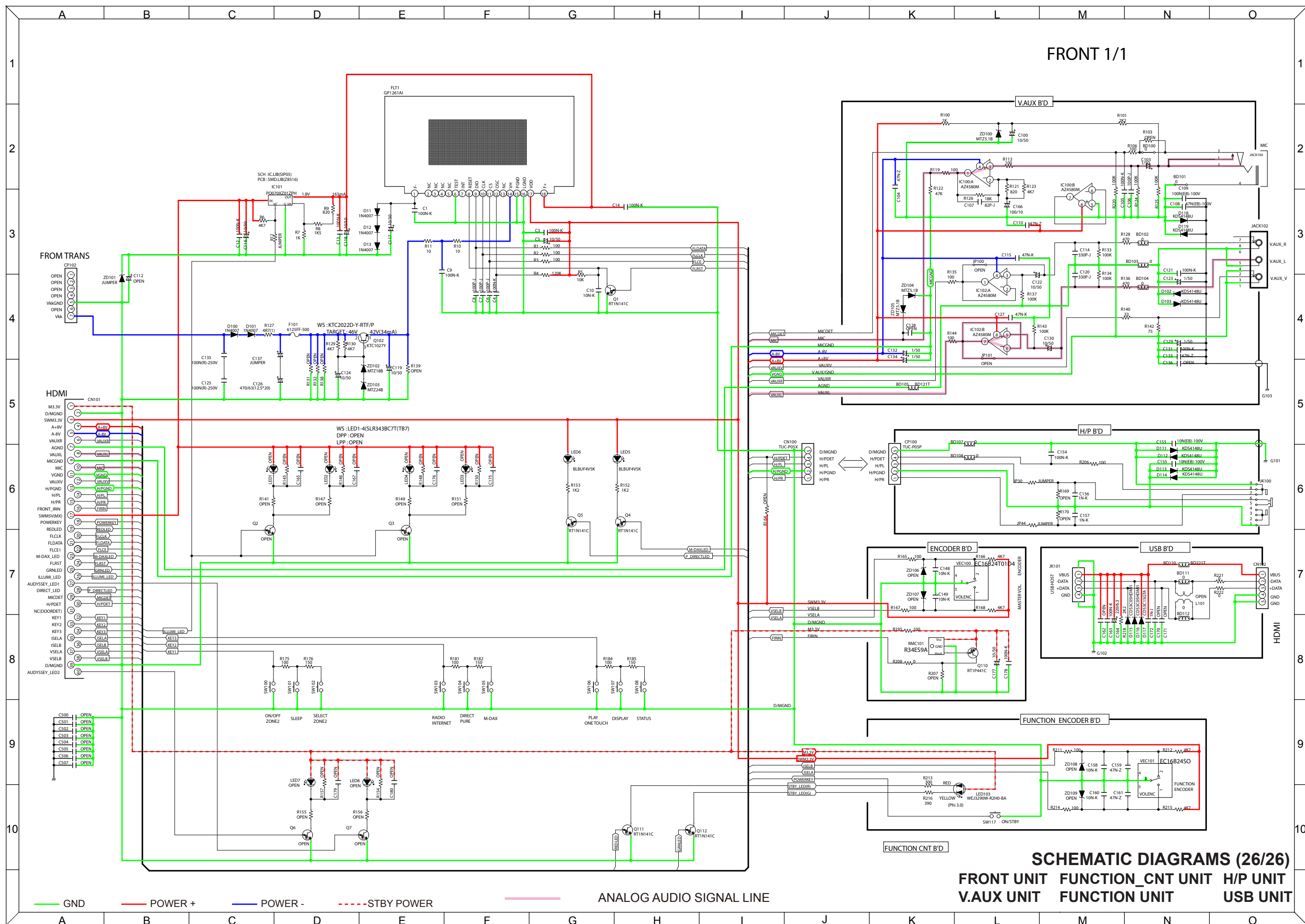




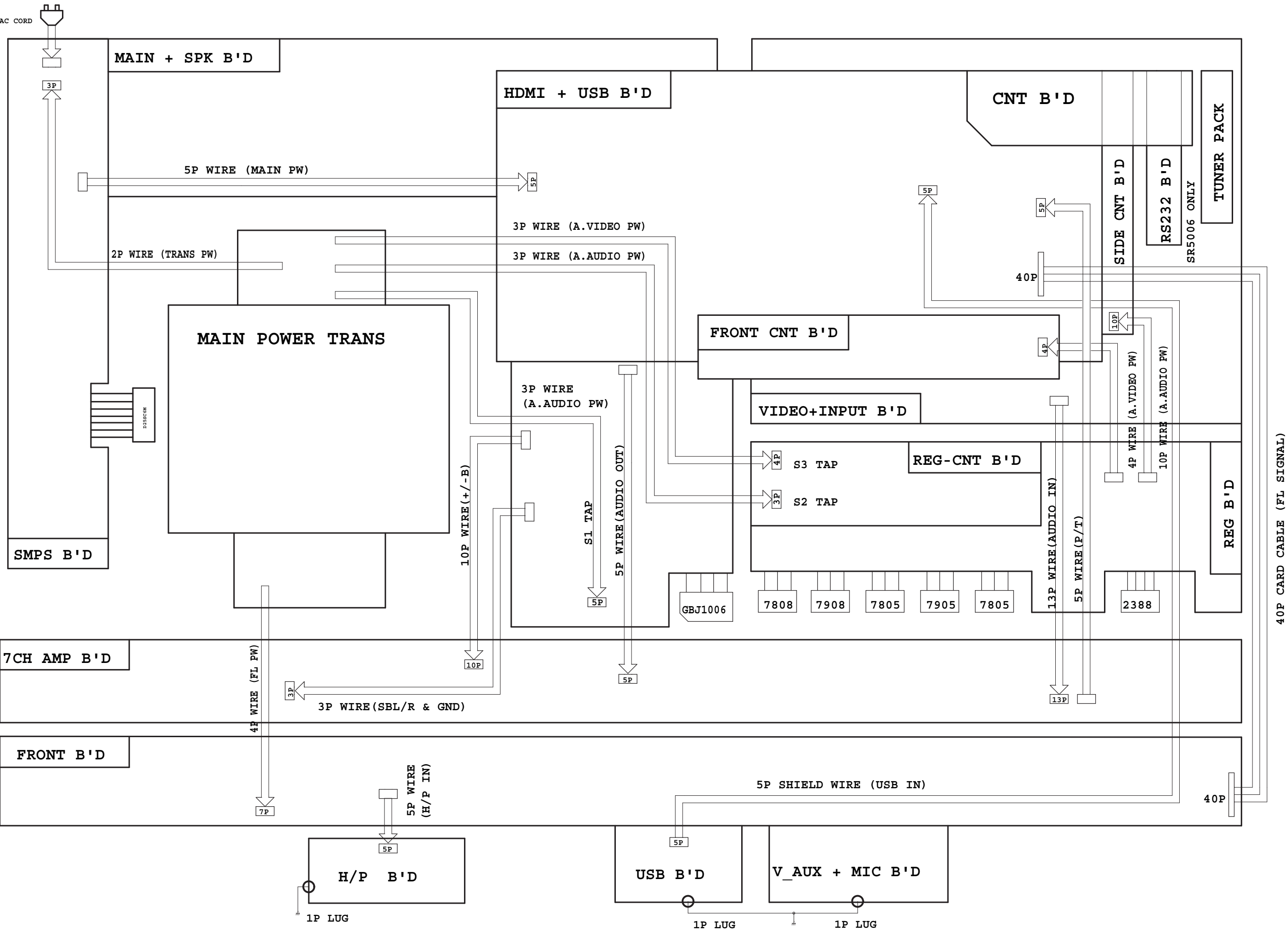
SCHEMATIC DIAGRAMS (24/26)
HDMI UNIT (12/13)



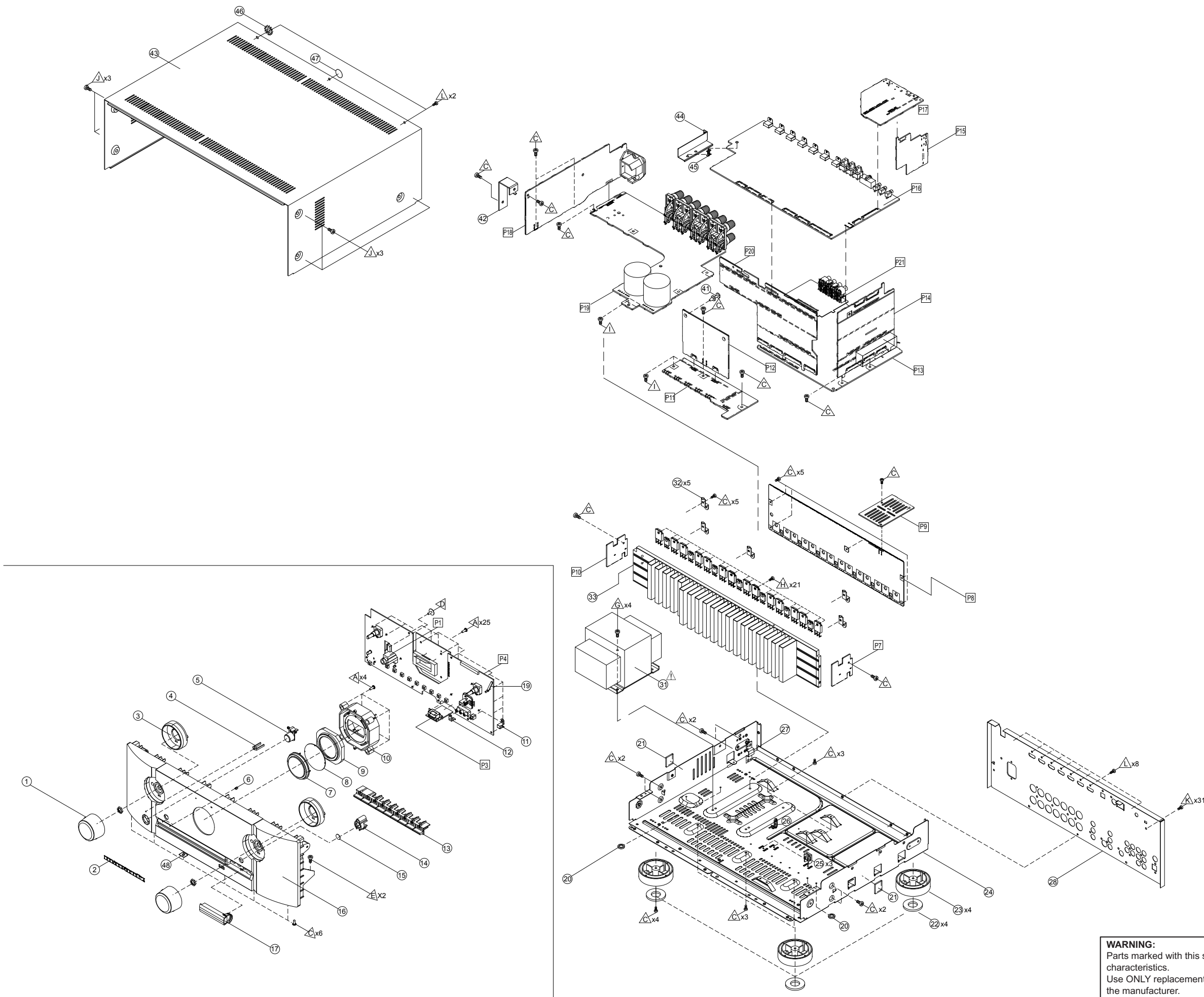
SCHEMATIC DIAGRAMS (25/26)
HDMI UNIT (13/13)



WIRING DIAGRAM



EXPLODED VIEW



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

[illegible]

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

PARTS LIST OF EXPLODED VIEW

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

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

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

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

Note: The symbols in the column "Remarks" indicate the following destinations.

U : North America model

N : Europe model

K : China model

B : Black model

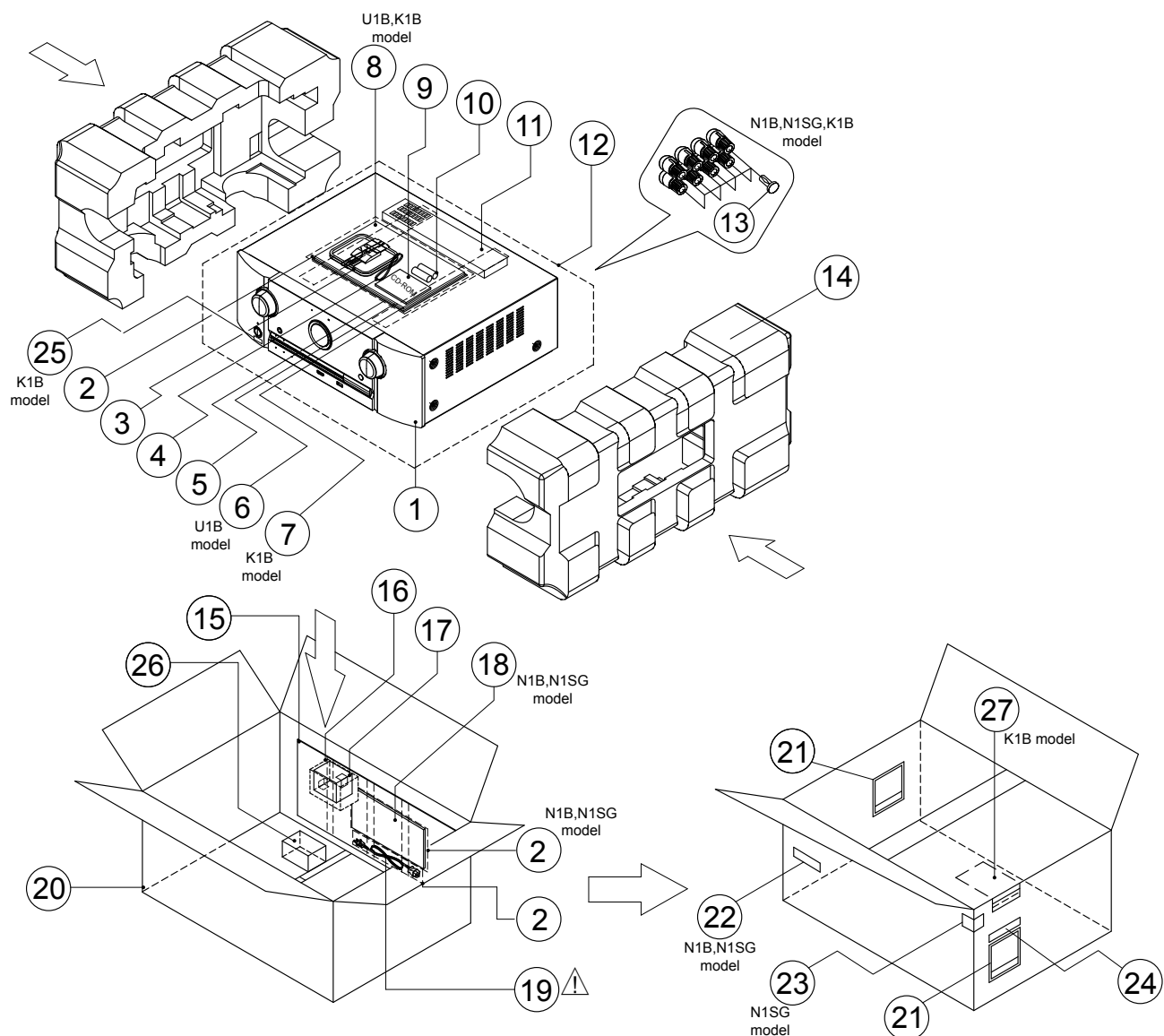
SG : Silver gold model

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	P8	nsp	PCB 7CH_AMP ASSY	U1B	7025HK1019010	1	*
	P8	nsp	PCB 7CH_AMP ASSY	N1B	7025HK1019020	1	*
	P8	nsp	PCB 7CH_AMP ASSY	N1SG	7025HK1019030	1	*
	P8	nsp	PCB 7CH_AMP ASSY	K1B	7025HK1019040	1	*
	P4A	nsp	PCB FRONT ASSY	U1B	7025HK1019013	1	*
	P4A	nsp	PCB FRONT ASSY	N1B	7025HK1019023	1	*
	P4A	nsp	PCB FRONT ASSY	N1SG	7025HK1019033	1	*
	P4A	nsp	PCB FRONT ASSY	K1B	7025HK1019043	1	*
	P1	-	PCB H/P		-		
	P3	-	PCB USB		-		
	P4	-	PCB FRONT		-		
	P7	-	PCB GUIDE_R		-		
	P9	-	PCB TOP_GUIDE		-		
	P10	-	PCB GUIDE_L		-		
	P19A	nsp	PCB SPK ASSY	U1B	7025HK1019011	1	*
	P19A	nsp	PCB SPK ASSY	N1B	7025HK1019021	1	*
	P19A	nsp	PCB SPK ASSY	N1SG	7025HK1019031	1	*
	P19A	nsp	PCB SPK ASSY	K1B	7025HK1019041	1	*
	P18	-	PCB SMPS		-		
	P19	-	PCB SPK		-		
	P21	-	PCB EXT_IN		-		
	P12A	nsp	PCB REG_CNT ASSY	U1B	7025HK1019012	1	*
	P12A	nsp	PCB REG_CNT ASSY	N1B	7025HK1019022	1	*
	P12A	nsp	PCB REG_CNT ASSY	N1SG	7025HK1019032	1	*
	P12A	nsp	PCB REG_CNT ASSY	K1B	7025HK1019042	1	*
	P11	-	PCB REG		-		
	P12	-	PCB REG_CNT		-		
	P14	-	PCB SIDE_CNT		-		
	P15	-	PCB RS232		-		
	P17	-	PCB RC5_MX		-		
	P20	-	PCB FRONT_CNT		-		
	P13	nsp	PCB AUDIO_VIDEO ASSY	U1B	7025HK1019014	1	*
	P13	nsp	PCB AUDIO_VIDEO ASSY	N1B	7025HK1019024	1	*
	P13	nsp	PCB AUDIO_VIDEO ASSY	N1SG	7025HK1019034	1	*
	P13	nsp	PCB AUDIO_VIDEO ASSY	K1B	7025HK1019044	1	*

Ref. No.	Part No.	Part Name	Remarks		Q'ty	New																												
P16	8U6331009500M	PCB HDMI ASSY	U1B	7025HK1019015	1	*																												
P16	8U6331010000M	PCB HDMI ASSY	N1B	7025HK1019025	1	*																												
P16	8U6331010000M	PCB HDMI ASSY	N1SG	7025HK1019025	1	*																												
P16	nsp	PCB HDMI ASSY	K1B	7025HK1019045	1	*																												
NOTE : When replacing the SR5006/K1B PCB HDMI ASSY, use the SR5006/N1B or N1SG PCB HDMI ASSY (8U6331010000M). Please change the parts when changing SR5006/N1B or N1SG PCB HDMI ASSY to SR5006/K1B. (Refer to the table below) Please refer to parts 128 , 129 page. (SCHEMATIC DIAGRAMS : 23/26, 24/26) <table border="1"> <thead> <tr> <th></th><th>R701(23/26)</th><th>R702(23/26)</th><th>R709(23/26)</th><th>R710(23/26)</th><th>R733(24/26)</th><th>R776(24/26)</th></tr> </thead> <tbody> <tr> <td>SR5006 N1B</td><td>OPEN</td><td>OPEN</td><td>OPEN</td><td>OPEN</td><td>OPEN</td><td>0</td></tr> <tr> <td>SR5006 N1SG</td><td>OPEN</td><td>OPEN</td><td>OPEN</td><td>OPEN</td><td>OPEN</td><td>0</td></tr> <tr> <td>SR5006 K1B</td><td>470K</td><td>470K</td><td>470K</td><td>470K</td><td>10K</td><td>10K</td></tr> </tbody> </table> After replacing the PCB HDMI ASSY in SR5006/K1B, overwrite the firmware with the newest K1B version firmware. (Refer to "PROCEDURE FOR UPGRADING THE VERSION OF THE FIRMWARE" (47 page).) [IC11] [IC18] [IC22] [IC41] [U7] (Refer to parts list of "PCB HDMI ASS'Y" (186 page).)								R701(23/26)	R702(23/26)	R709(23/26)	R710(23/26)	R733(24/26)	R776(24/26)	SR5006 N1B	OPEN	OPEN	OPEN	OPEN	OPEN	0	SR5006 N1SG	OPEN	OPEN	OPEN	OPEN	OPEN	0	SR5006 K1B	470K	470K	470K	470K	10K	10K
	R701(23/26)	R702(23/26)	R709(23/26)	R710(23/26)	R733(24/26)	R776(24/26)																												
SR5006 N1B	OPEN	OPEN	OPEN	OPEN	OPEN	0																												
SR5006 N1SG	OPEN	OPEN	OPEN	OPEN	OPEN	0																												
SR5006 K1B	470K	470K	470K	470K	10K	10K																												
1	963412013670M	KNOB VOLUME	U1B,N1B,K1B	5080212481000S	2																													
1	963412013680M	KNOB VOLUME	N1SG	5087212481000S	2																													
2	963421006200M	BADGE(MARANTZ) SILVER/GRAY		5630210678000S	1																													
3	943424100270M	DECORATION RING	U1B,N1B,K1B	CGR1A526B37	2	*																												
3	943424100280M	DECORATION RING	N1SG	CGR1A526RMD10	2	*																												
4	00M10BW355010	LENS POWER		3710211083000S	1																													
5	963411006110M	BUTTON POWER	U1B,N1B,K1B	5090213961000S	1																													
5	963411012000M	BUTTON POWER	N1SG	5097213961100S	1																													
6	943423100290M	LENS BUTTON		CGL1A294	2	*																												
7	416510046009M	WINDOW CENTER SR7005 A332		-	1																													
8	416510047101M	WINDOW FILTER SR7005 A332		-	1																													
9	943424100250M	HOLDER WINDOW	U1B,N1B,K1B	CGR1A525	1	*																												
9	943424100260M	HOLDER WINDOW	N1SG	CGR1A525C73	1	*																												
10	nsp	DECORATION WINDOW		5120210991000S	1	*																												
11	nsp	PLATE RCA		4470212216000S	1	*																												
12	nsp	PLATE USB		4470212206000S	1	*																												
13	943411101410M	BUTTON 9KEY	U1B,N1B,K1B	CBT1A1158B37	1	*																												
13	943411101420M	BUTTON 9KEY	N1SG	CBT1A1158RMD10	1	*																												
14	nsp	HOLDER REMOCON		4320211081000S	1	*																												
15	481510019100M	LENS IR BL SR7005 A332	U1B,N1B,K1B	-	1																													
15	481510019131M	LENS IR SG SR7005 A332	N1SG	-	1																													
16	963402100020M	PANEL FRONT	U1B,N1B,K1B	3067215281000S	1	*																												
16	963402100030M	PANEL FRONT	N1SG	3067215281100S	1	*																												
17	943419100320M	COVER RCA	U1B,N1B,K1B	CGR1A518ZA	1	*																												
17	943419100330M	COVER RCA	N1SG	CGR1A518YA	1	*																												
19	nsp	CLAMP WIRE(MTG)		4330000310000S	1																													
20	nsp	CUSHION SCREW		4050213025000S	4																													
21	nsp	CUSHION SIDE		4050213095000S	2																													
22	90M46BW056010	CUSHION FOOT		4050211175000S	4																													
23	00M46BW057210	FOOT FRONT		4007210321000S	4																													
24	nsp	CHASSIS MAIN		3200213506601S	1																													
25	nsp	SUPPORTER PCB		4070001601010S	3																													
26	nsp	SUPPORTER P.C.		4070210192000S	1																													
27	nsp	BRACKET SIDE		4010210686000S	1																													
28	nsp	CHASSIS BACK	U1B	3207213806500S	1																													
28	nsp	CHASSIS BACK	N1B,N1SG	3207213806600S	1																													
28	nsp	CHASSIS BACK	K1B	3207213806610S	1																													
31	963101101070S	POWER TRANS MAIN	U1B	8200960660730S	1	*																												

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
△	31	963101101080S	POWER TRANS MAIN	N1B,N1SG	8200960660700S	1	*
△	31	963101101090S	POWER TRANS MAIN	K1B	8200960660710S	1	*
	32	nsp	BRACKET HEAT SINK		4010056906010S	5	
	33	nsp	HEAT SINK MAIN		2120211988000S	1	
	★ 34	00D9630235301	TR 2SD2560Y	Q404,Q416,Q428,Q440, Q452,Q464,Q476	J5032560Y0170S	7	
	★ 35	00D9630235204	TR 2SB1647Y	Q410,Q422,Q434,Q446, Q458,Q470,Q482	J5011647Y0170S	7	
	★ 36	00D9630280107	TR 2SC3964	Q409,Q421,Q433,Q445, Q457,Q469,Q481	J502396400000S	7	
	41	nsp	SPACER CARD		4300210062000S	1	
	42	nsp	BRACKET SMPS		4010214886000S	1	
	43	963403100020S	CABINET TOP	U1B,N1B,K1B	3007211916000S	1	
	43	963403100480S	CABINET TOP	N1SG	3007211916010S	1	
	44	nsp	BRACKET HDMI		4010215226000S	1	
	45	nsp	SUPPORTER PCB		4070211653000S	1	
	46	nsp	TOOTHED WASHER		1530210126000S	1	
	47	nsp	MASK		41951001200AM	1	
	48	nsp	EARTH PLATE	N1SG	4010215316000S	1	*
	★ 50	963606012390S	CABLE FLAT CARD 1.0MM		N711402512480S	1	
	★ 51	nsp	CUSHION BOTTOM TRANS		4050211165000S	1	
	★ 52	nsp	CLAMP CABLE		4330040343010S	7	
SCREWS							
	A	nsp	SCREW +2S 3X8 B-TYPE(DA CHENG) ZNW/BH		B020030081B10D	29	
	C	nsp	SCREW +2S 3*8(ROUND)(DA CHENG) BK/BH		B020230083B10D	52	
	D	nsp	SCREW +2S 3*8 ZnY WASHER PI12		1500001456010S	1	
	E	nsp	SCREW +2S 3*8 PI9.5 B-TYPE ZNW		1500001206010S	2	
	G	nsp	SCREW +3S 4*10 P+S-WASHER(ROUND)BK/BH		B028940101B11S	4	
	H	nsp	SCREW +2S 3*14 P(6)+S-WASHER(DA CHENG) ZNY/HH		B018230141H11D	21	
	I	nsp	SCREW +2S 3*17 B-TYPE(DA CHENG) BK/BH		B020030171B10D	3	
	J	nsp	SCREW +2S 4*8 B-TYPE(DOT)(DACHENG) BK/BH	U1B,N1B,K1B	1500040083B10D	8	
	J	nsp	SCREW +2S 4*8 B-TYPE(DOT) NI/BH	N1SG	1500040084B10S	6	
	J	nsp	SCREW +2S 4*8 B-TYPE(DOT)(DACHENG) BK/BH	N1SG	1500040083B10D	2	
	K	nsp	SCREW +2S 3*10 B-TYPE(DOT)(DA CHENG) BK/BH		B020030103B11D	31	
	L	nsp	SCREW +3S 3X6(DOT)CBTS(S)-B	U1B,N1B,K1B	B020930063B10S	10	
	L	nsp	SCREW +3S 3X6(DOT)CBTS(S)-B	N1SG	B020930063B10S	8	
	L	nsp	SCREW +3S 3*6(DOT) S-TITE NI/BH	N1SG	B020930064B11S	2	

PACKING VIEW



PARTS LIST OF PACKING & ACCESSORIES

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

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

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

Note: The symbols in the column "Remarks" indicate the following destinations.

U : North America model
B : Black model

N : Europe model
SG : Silver gold model

K : China model

Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
1	-	SET			-	
2	nsp	POLY BAG	U1B,K1B	6337000240010S	2	*
2	nsp	POLY BAG	N1B,N1SG	6337000240010S	3	*
3	90M-ZA000260R	ANTENNA LOOP WIRE 9.5UH		E601016000010S	1	*
4	00D9600187308	ANTENNA WIRE (FM)		E605010070001S	1	*
5	nsp	WARRANTY CARD	U1B	5727000000111S	1	*
6	nsp	WARRANTY CARD (Canada)	U1B	5727041650142S	1	*
7	nsp	CARD Pass	K1B	5777000000020S	1	*
8	541110698003M	GETTING STARTED	U1B	5707000005330S	1	*

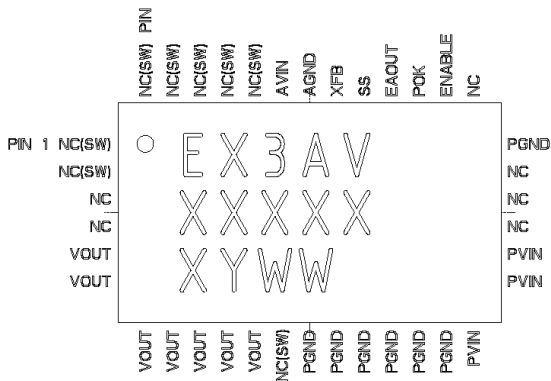
	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	8	541110700005M	GETTING STARTED	K1B	5707000005600S	1	*
	9	352010027000M	CD-ROM (OWNER'S MANUAL)	U1B	6517000000070S	1	*
	9	352010028003M	CD-ROM (OWNER'S MANUAL)	N1B,N1SG	6517000000080S	1	*
	9	352010029006M	CD-ROM (OWNER'S MANUAL)	K1B	6517000000320S	1	*
	10	nsp	BATTERY DRY		G670001R50210S	2	*
	11	307010092004M	REMOCON		8300014001010S	1	*
	12	nsp	PE SHEET		6327040059000S	1	*
	13	nsp	BUSHING	N1B,N1SG,K1B	2410040353010S	18	*
	14	963533100070M	CUSHION SNOW		6230213014000S	1	*
	15	963537100020D	PAD BOX BACK		6240210730000S	1	*
	16	nsp	POLY BAG ACCESSORY		6330210222000S	1	*
	17	324810004004M	SETUP MIC		M040000310060S	1	*
	18	541110699006M	GETTING STARTED	N1B,N1SG	5707000005340S	1	*
△	19	90M-ZC000470R	CORD ASSY	U1B	L068125130010S	1	*
△	19	90M-ZC000600R	CORD ASSY	N1B,N1SG	L068250160020S	1	*
△	19	963611004880S	CORD ASSY	K1B	L068250100050S	1	*
	20	531210178006M	BOX GIFT		6007211950000S	1	*
	21	nsp	LABEL SHIPPING		5507000007500S	1	*
	22	nsp	LABEL FM	N1B,N1SG	5507000005820S	1	*
	23	nsp	LABEL COLOR	N1SG	5507000004600S	2	*
	24	nsp	LABEL MAC ADDRESS		5507000002920S	2	*
	25	nsp	LABEL POWER SWITCH	K1B	5507000005270S	1	*
	26	963533100970M	PAD BOTTOM		6240210984000S	1	*
	27	nsp	WARRANTY CARD	K1B	5727000000300S	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

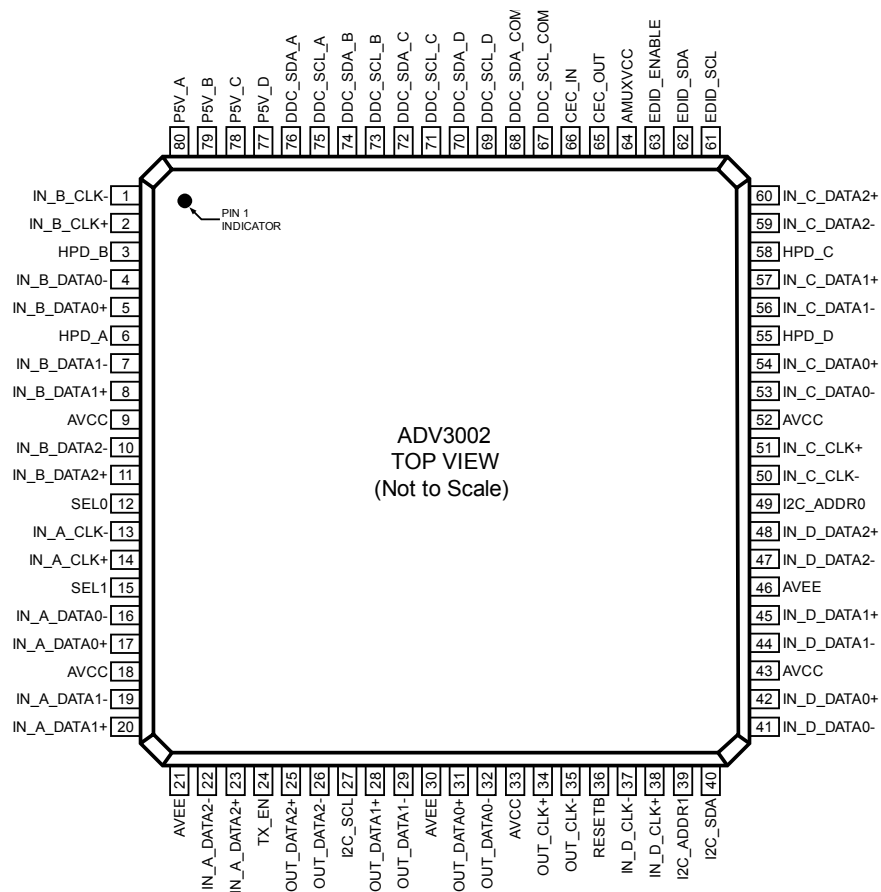
EX3AV (HDMI : IC1,4,5,6,7,8)



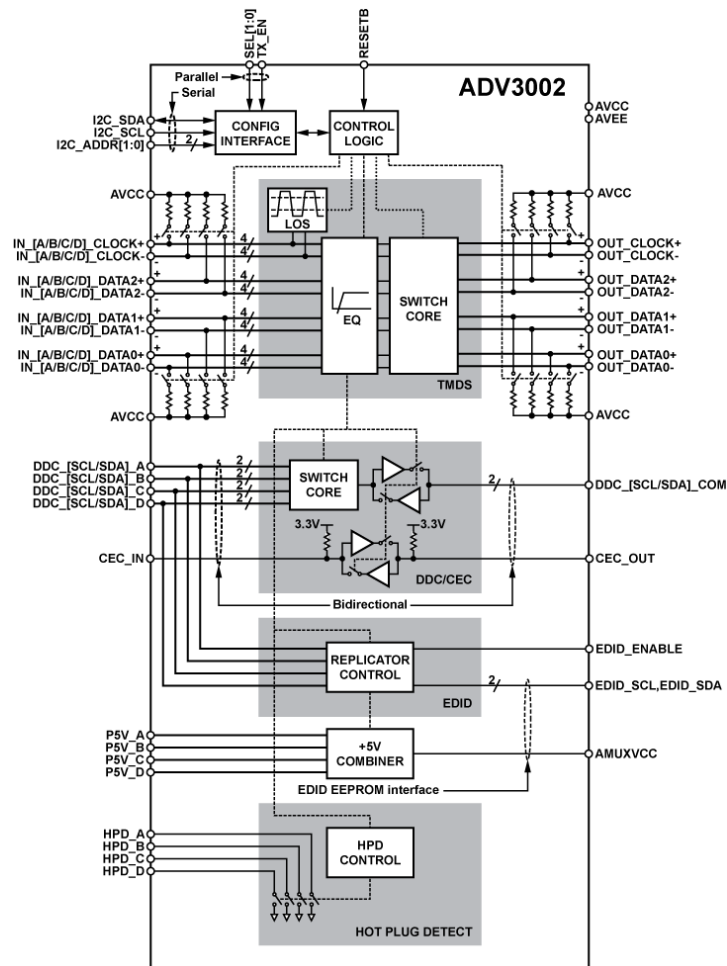
EX3AV Terminal Functions

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

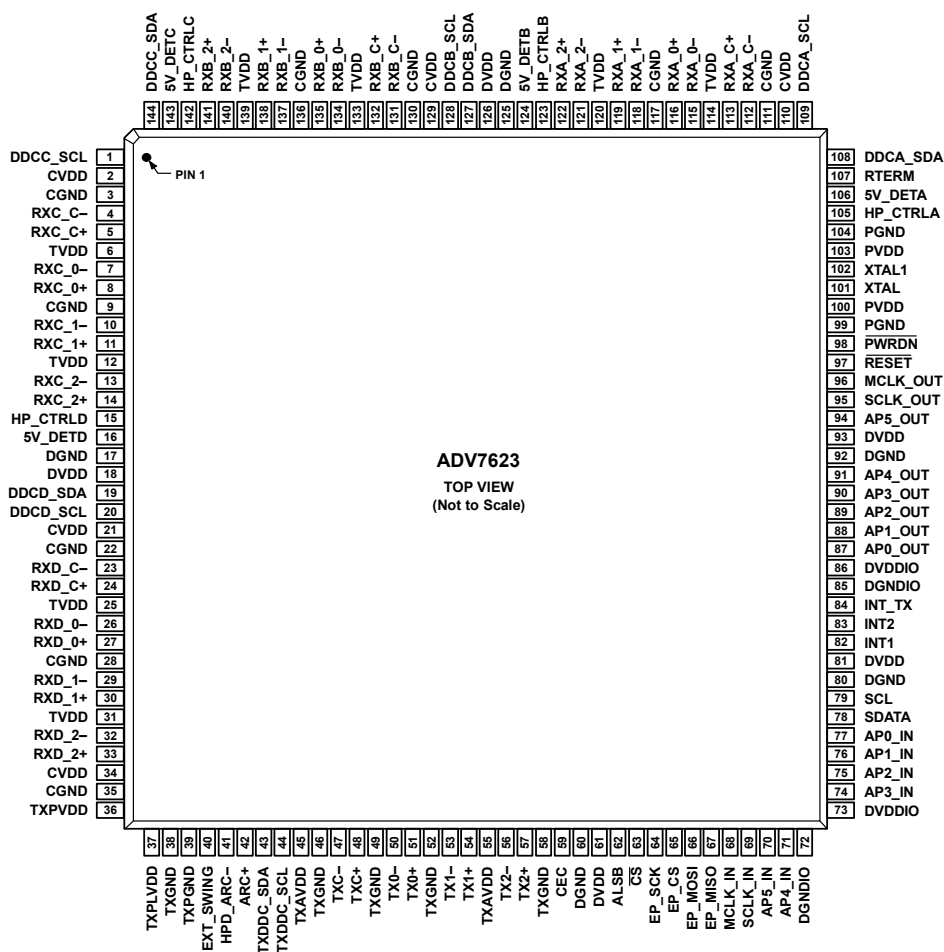
ADV3002BSTZ (HDMI : U1)



ADV3002BSTZ Block diagram



ADV7623 (HDMI : IC9)



Pin Function Descriptions

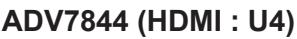
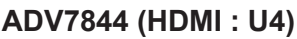
Pin No.	Mnemonic	Type	Description
1	DDCC_SCL	Digital input	HDCP Slave Serial Clock Port C. DDCC_SCL is a 3.3 V input that is 5 V tolerant.
2	CVDD	Power	Receiver Comparator Supply Voltage (1.8 V).
3	CGND	Ground	TVDD and CVDD Ground.
4	RXC_C-	HDMI input	Digital Input Clock Complement of Port C in the HDMI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

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

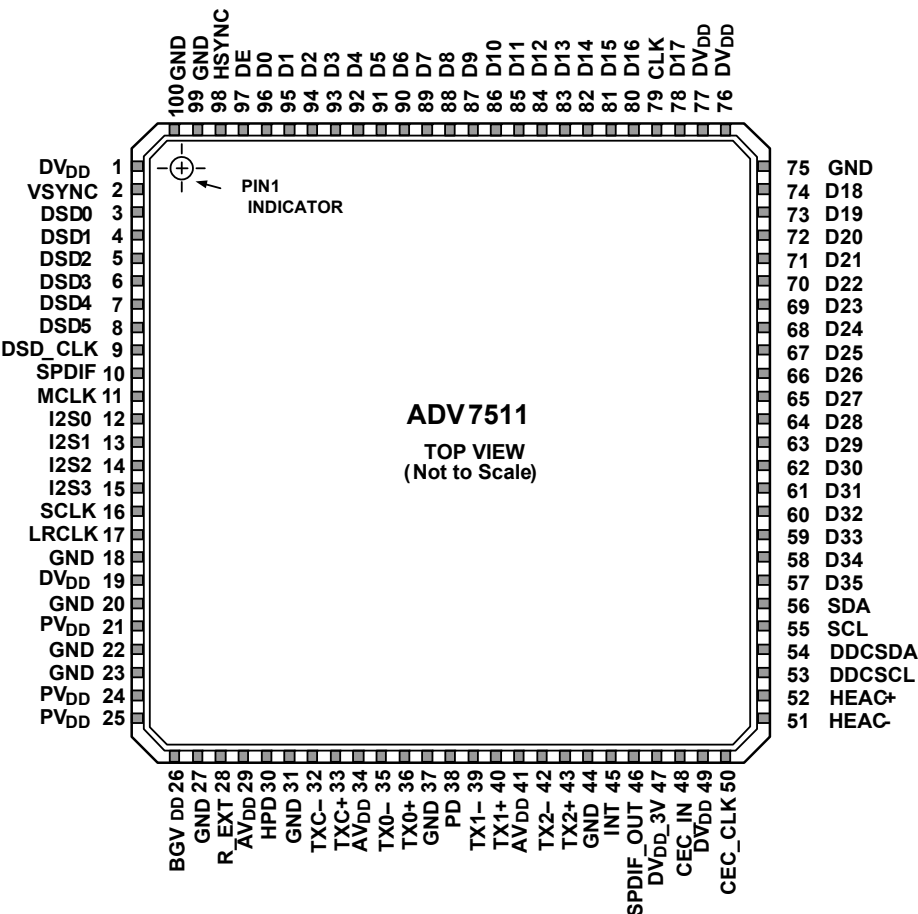
Pin No.	Mnemonic	Type	Description
13	RXC_2–	HDMI input	Digital Input Channel 2 Complement of Port C in the HDMI Interface.
14	RXC_2+	HDMI input	Digital Input Channel 2 True of Port C in the HDMI Interface.
15	HP_CTRLD	Digital output	Hot Plug Detect for Port D.
16	5V_DET	Digital input	5 V Detect Pin for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

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

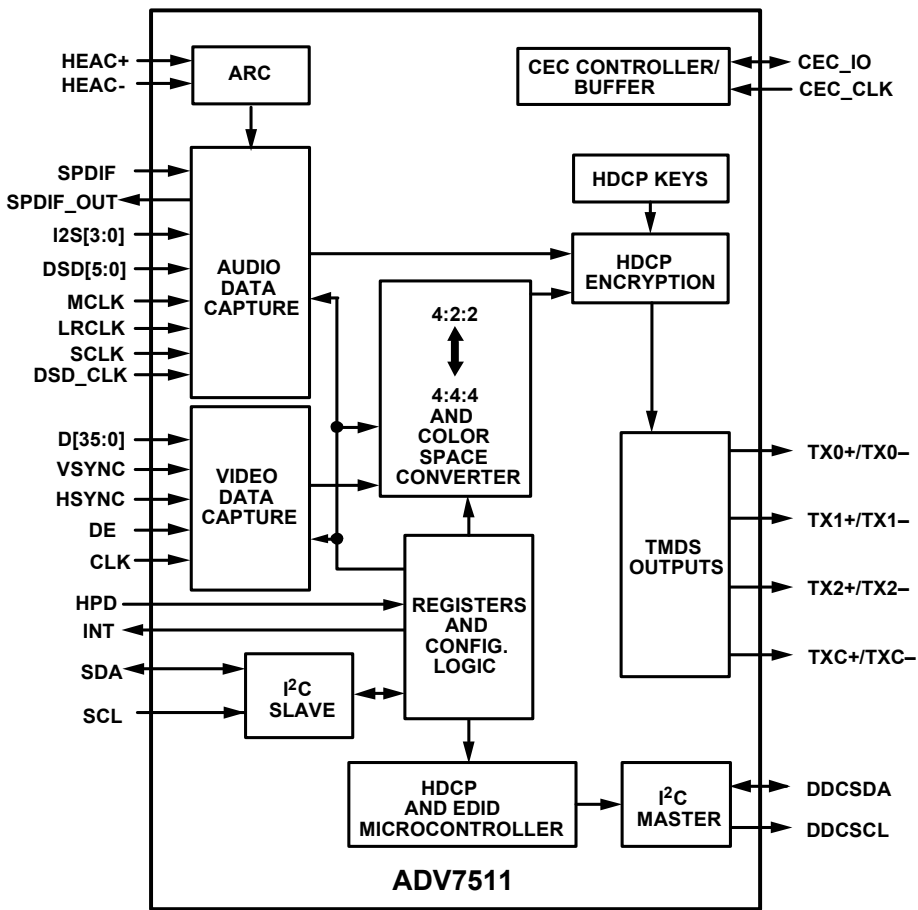
ADV7844 (HDMI : U4)



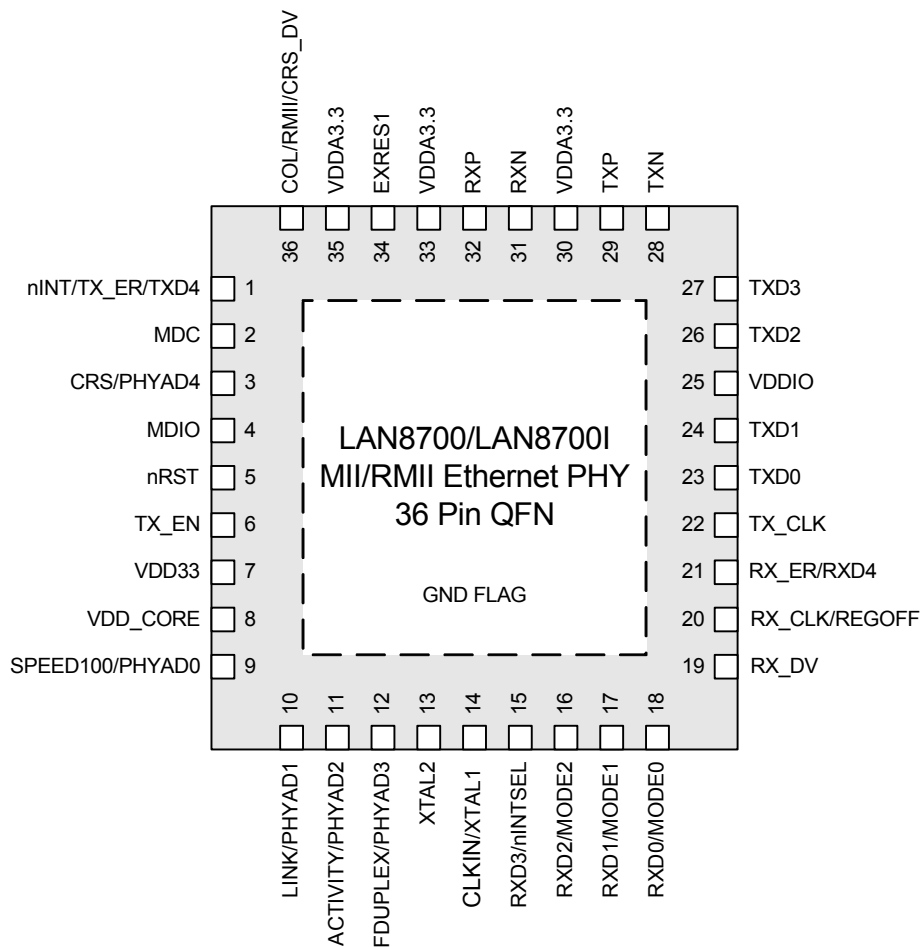
ADV7511BSTZ (HDMI : IC12)



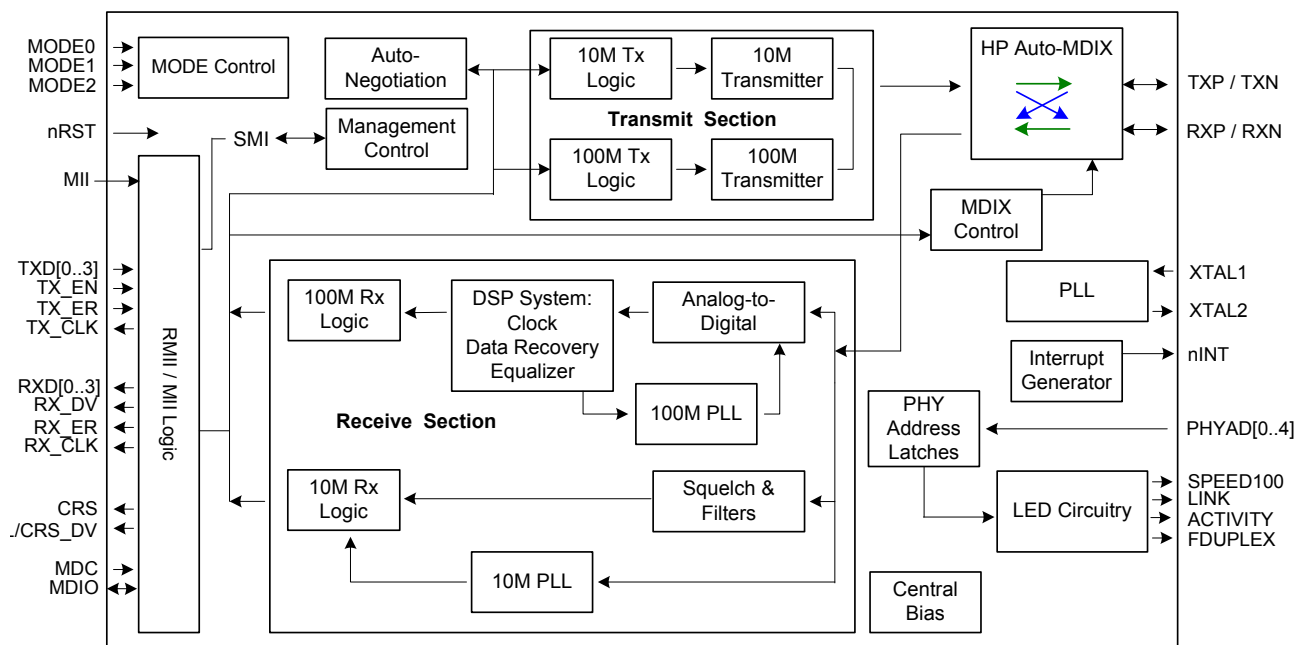
ADV7511BSTZ Block diagram



LAN8700-AEZG-TR (HDMI : IC14)



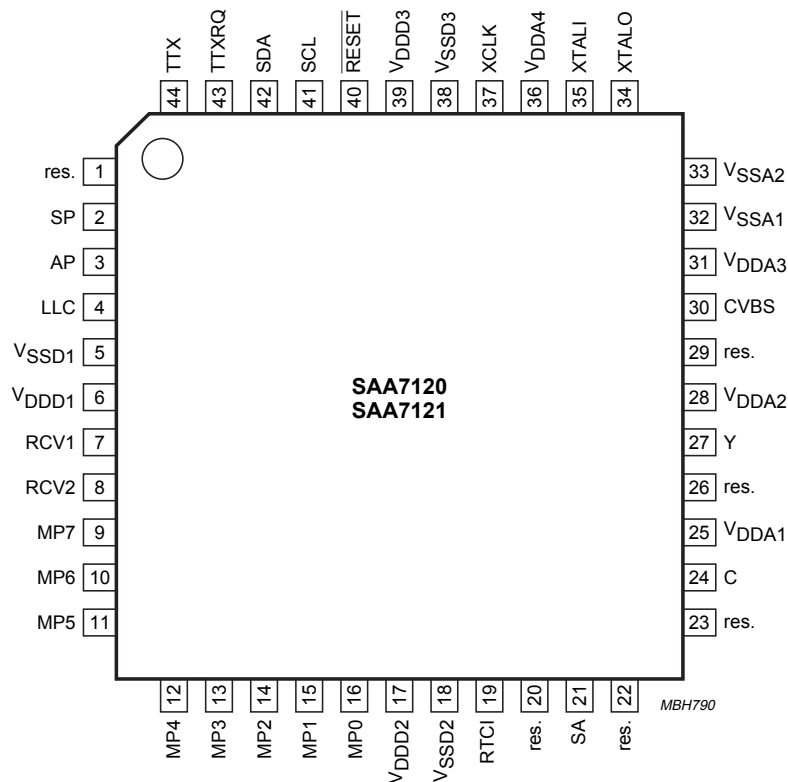
LAN8700-AEZG-TR Block Diagram



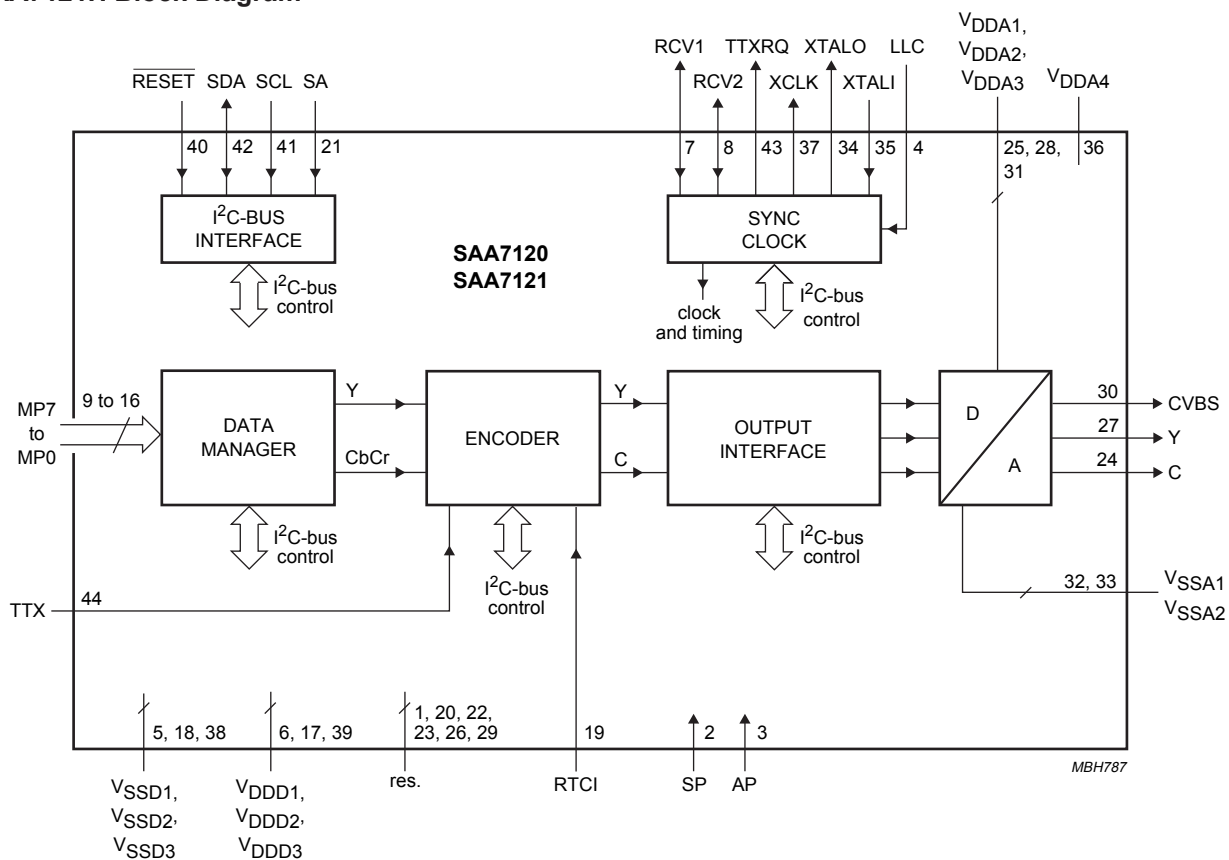
LAN8700-AEZG-TR Pin Description

PIN NO.	PIN NAME	PIN NO.	PIN NAME
1	nINT/TX_ER/TXD4	19	RX_DV
2	MDC	20	RX_CLK/REGOFF
3	CRS/PHYAD4	21	RX_ER/RXD4
4	MDIO	22	TXCLK
5	nRST	23	TXD0
6	TX_EN	24	TXD1
7	VDD33	25	VDDIO
8	VDD_CORE	26	TXD2
9	SPEED100/PHYAD0	27	TXD3
10	LINK/PHYAD1	28	TXN
11	ACTIVITY/PHYAD2	29	TXP
12	FDUPLEX/PHYAD3	30	VDDA3.3
13	XTAL2	31	RXN
14	CLKIN/XTAL1	32	RXP
15	RXD3/nINTSEL	33	VDDA3.3
16	RXD2/MODE2	34	EXRES1
17	RXD1/MODE1	35	VDDA3.3
18	RXD0/MODE0	36	COL/RMII/CRS_DV

SAA7121H (HDMI : IC15)



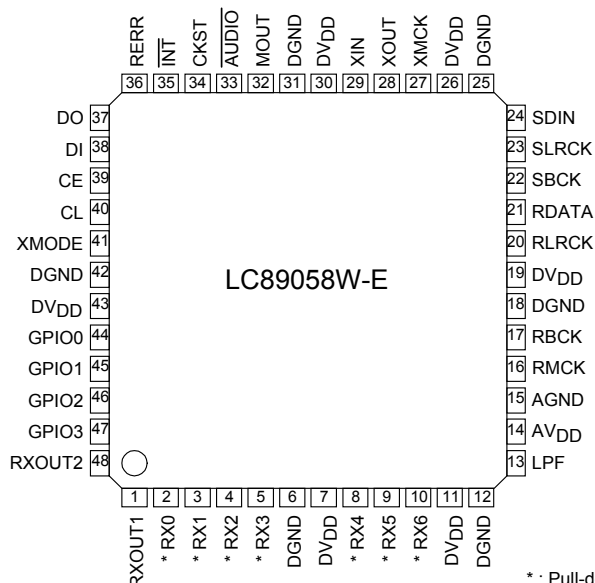
SAA7121H Block Diagram



SAA7121H 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 _{DD1}	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 _{DD2}	17	I	digital supply voltage 2
V _{SS2}	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

LC89058W-E (HDMI : IC19,21)



* : Pull-down resistor internal at no selection

Pin Functions

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

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

* Input voltage: I= -0.3 to 3.6V, I_s = -0.3 to 5.5V

* Output voltage: O= -0.3 to 3.6V

* Pins 2, 4, 5, 8, 9, 10, 24, 38, 39, 40, and 41 have an internal pull-down resistor (pd).

Their level is fixed when they are unselected.

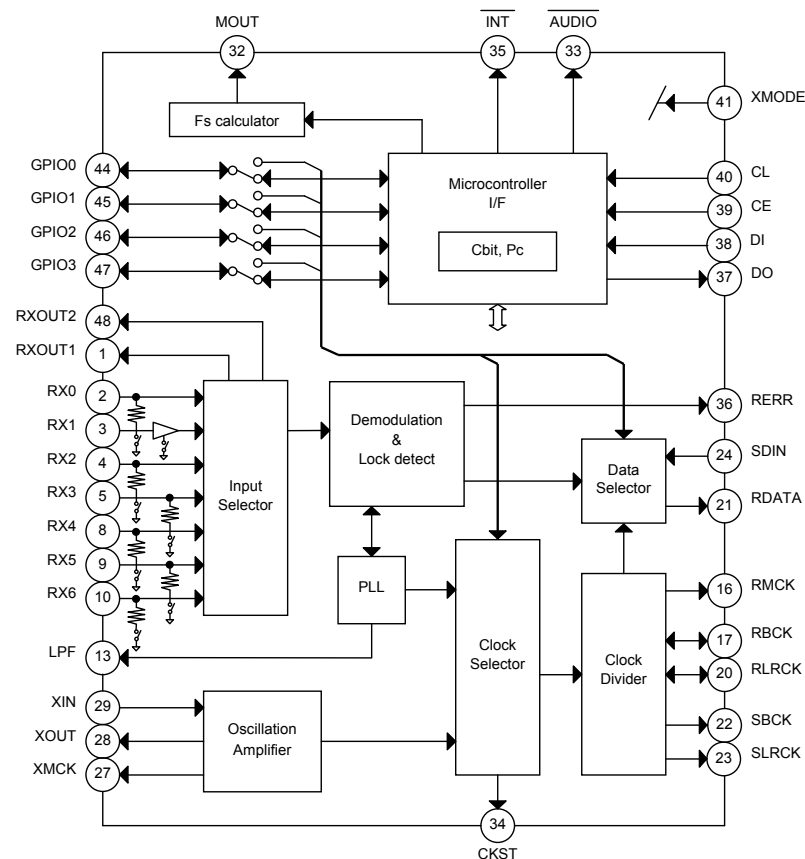
* Pins 32 and 33 are input pins for chip address setting when pin 41 is held at the low level.

* Pin 34 serves as the input pin for designating as the master or slave when pin 41 is held at the low level.

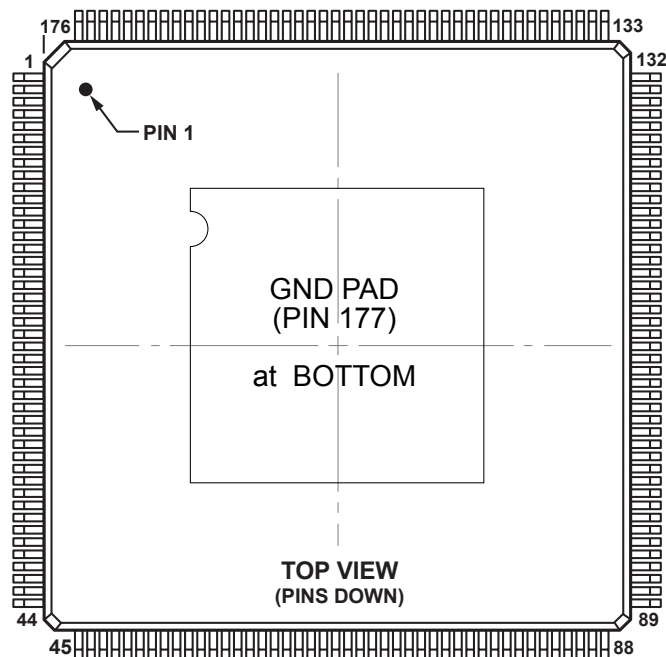
* Pin 35 serves as the input pin for configuring the I/O of pins 44 to 47 when pin 41 is held at the low level.

* The DVDD and AVDD pins must be held at the same level and turned on and off at the same timing to preclude Latch-up conditions.

LC89058W-E Block diagram



ADSP21487KSWZ3B (HDMI : U8)



ADSP21487KSWZ3B Terminal Function

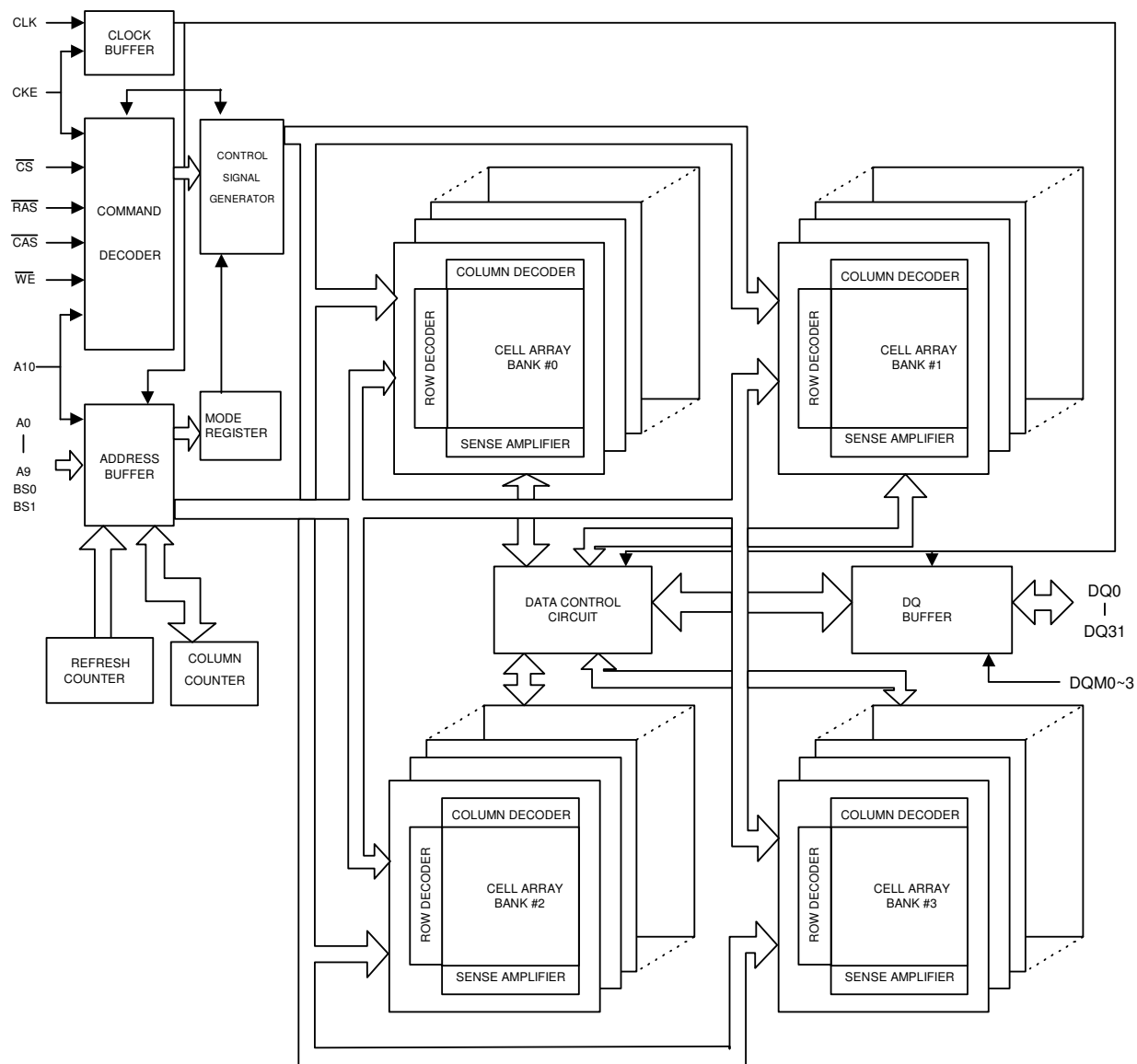
Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.
SDDQM	1	V _{DD_EXT}	45	DAI_P10	89	V _{DD_INT}	133
$\overline{MS0}$	2	DPI_P08	46	V _{DD_INT}	90	FLAG0	134
SDCKE	3	DPI_P07	47	V _{DD_EXT}	91	FLAG1	135
V _{DD_INT}	4	V _{DD_INT}	48	DAI_P20	92	FLAG2	136
CLK_CFG1	5	DPI_P09	49	V _{DD_INT}	93	NC	137
ADDR0	6	DPI_P10	50	DAI_P08	94	FLAG3	138
BOOT_CFG0	7	DPI_P11	51	DAI_P14	95	NC	139
V _{DD_EXT}	8	DPI_P12	52	DAI_P04	96	NC	140
ADDR1	9	DPI_P13	53	DAI_P18	97	V _{DD_EXT}	141
ADDR2	10	DPI_P14	54	DAI_P17	98	NC	142
ADDR3	11	DAI_P03	55	DAI_P16	99	V _{DD_INT}	143
ADDR4	12	NC	56	DAI_P12	100	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	WDRSTO	70	V _{DD_INT}	114	TDI	158
SDA10	27	NC	71	MST	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	$\overline{SDWE}$	171
DPI_P03	40	V _{DD_EXT}	84	ADDR15	128	$\overline{SDRAS}$	172
V _{DD_INT}	41	V _{DD_INT}	85	V _{DD_INT}	129	RESET	173
DPI_P05	42	DAI_P06	86	ADDR14	130	TMS	174
DPI_P04	43	DAI_P05	87	$\overline{AMI_WR}$	131	$\overline{SDCAS}$	175
DPI_P06	44	DAI_P09	88	$\overline{AMI_RD}$	132	V _{DD_INT}	176
						GND	177*

* at BOTTOM

W9864G6JH-6 (HDMI : U6)

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

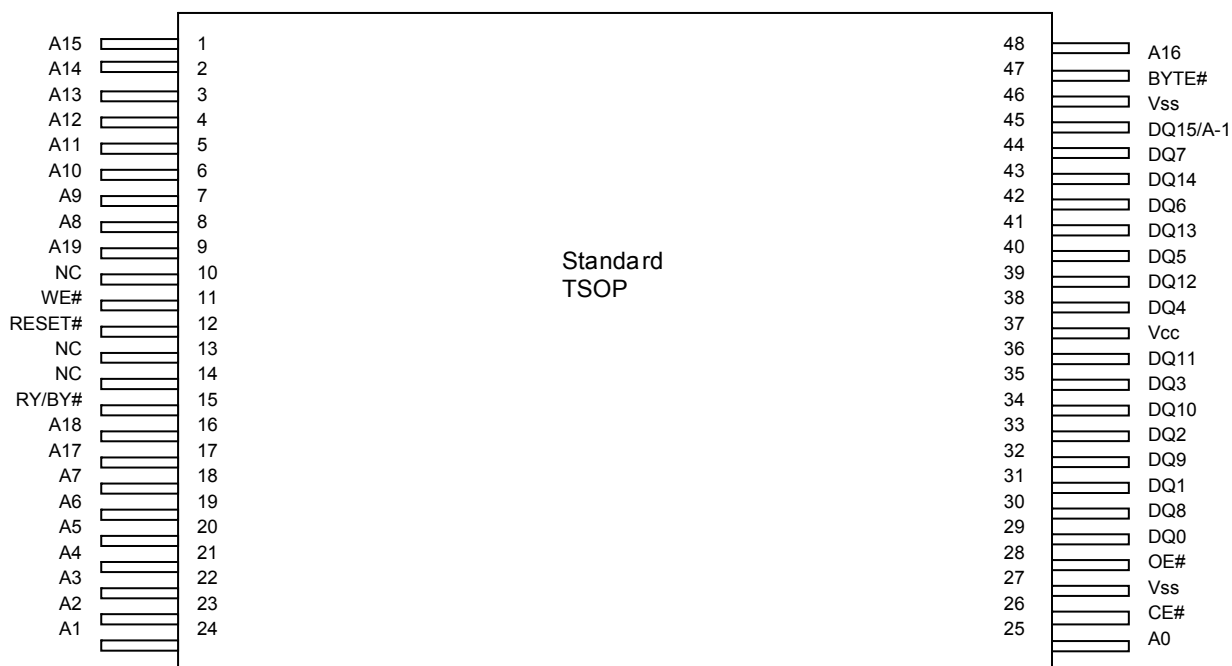
W9864G6JH-6 Block diagram



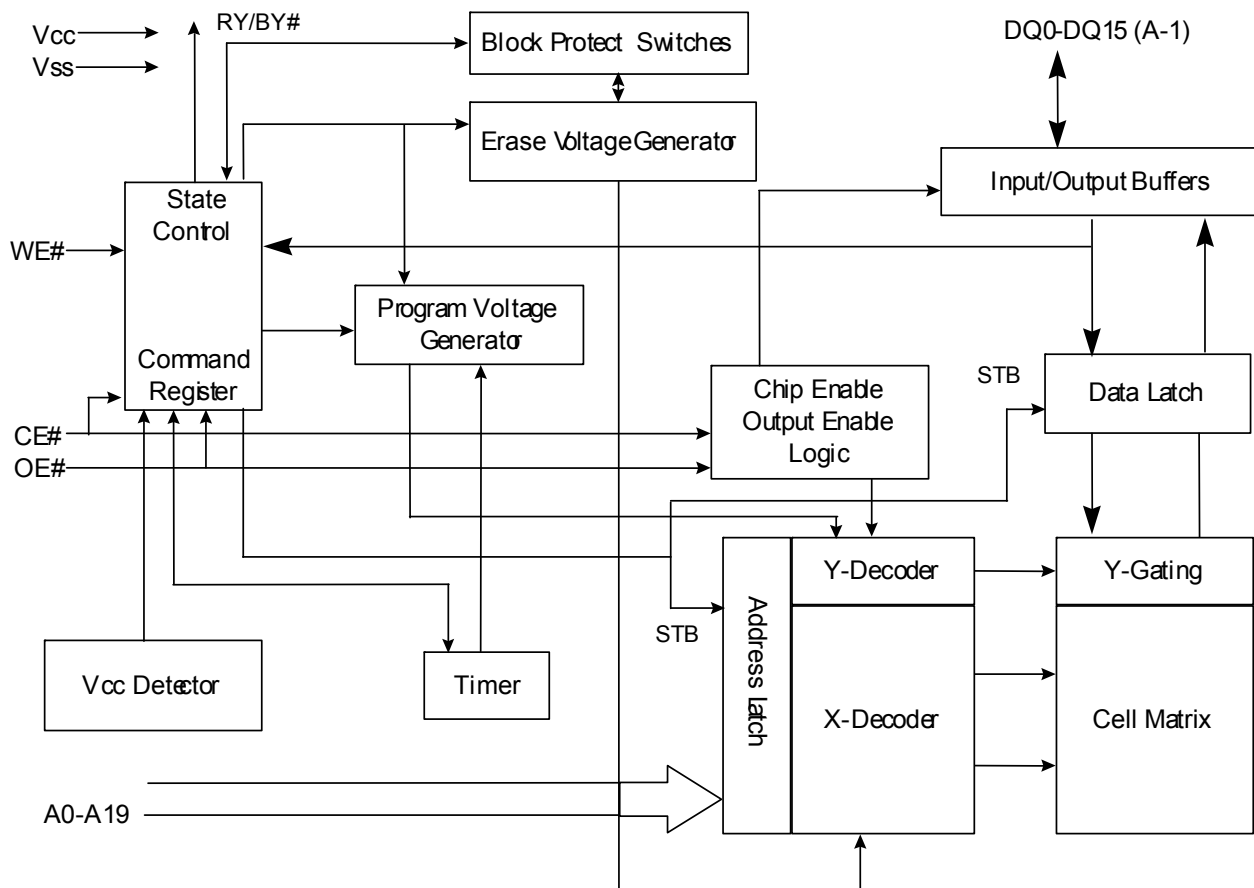
W9864G6JH-6 Pin description

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.

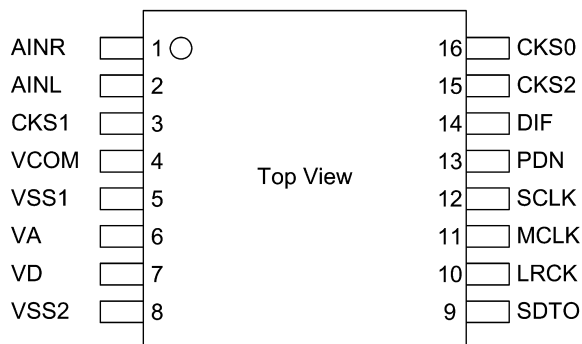
EN29LV160BB-70TIP (HDMI : U7)



EN29LV160BB-70TIP Block Diagram



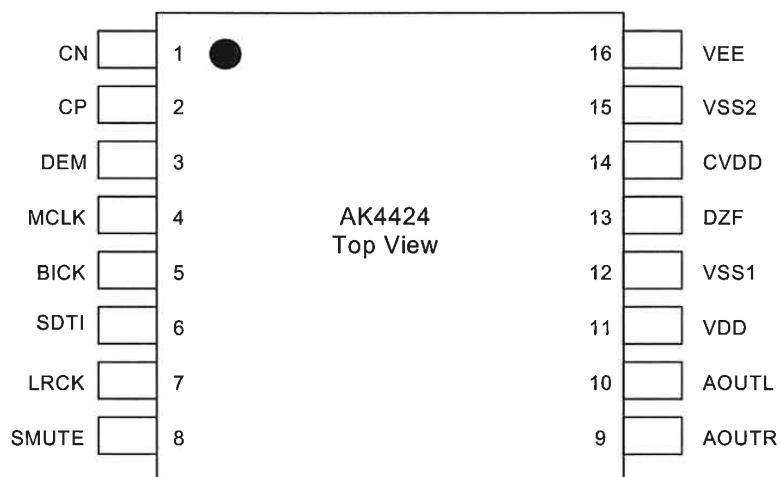
AK5358BET (HDMI : IC30)



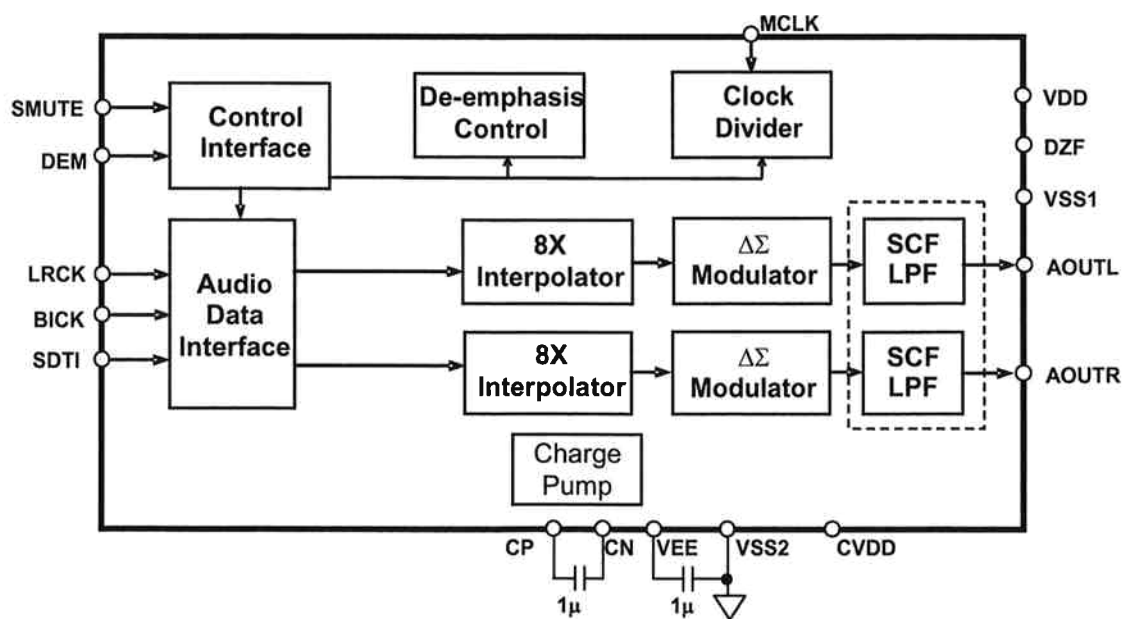
AK5358BET Pin Function

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

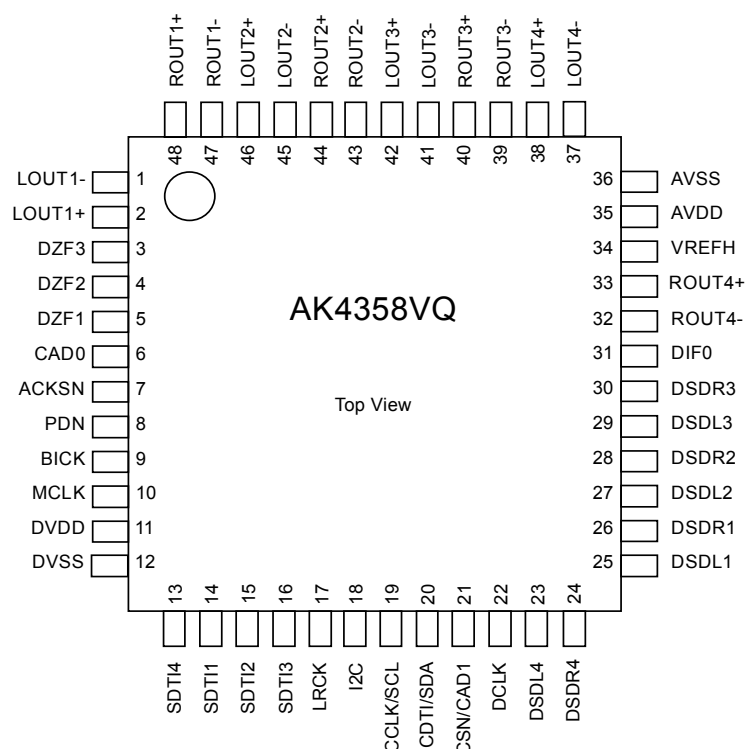
AK4424ET (HDMI : IC33)



AK4424ET Block Diagram



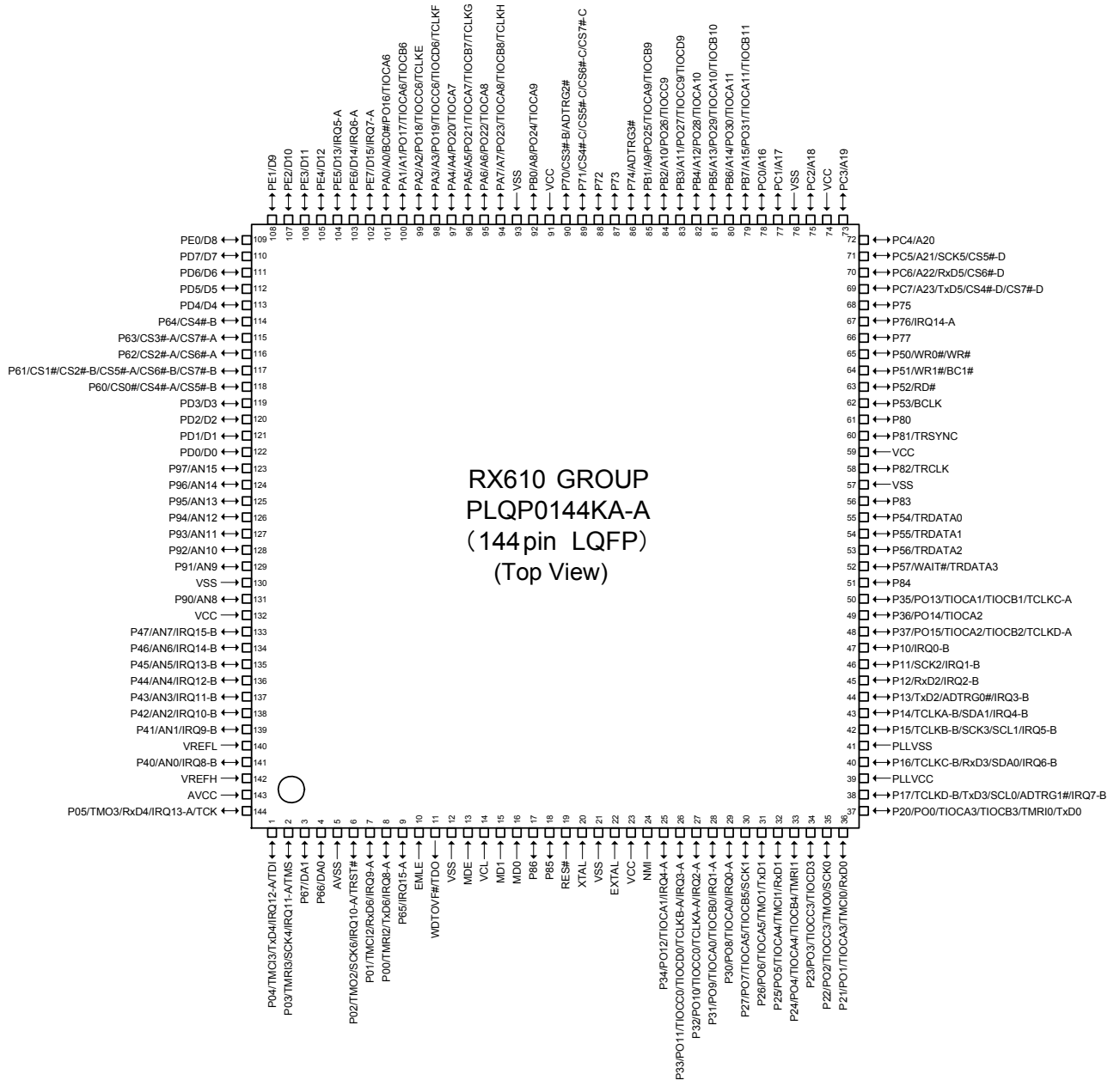
AK4358VQ (HDMI : IC29)



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

R5F56108VNFP (HDMI : IC41)



R5F56108VNFP Terminal Functions

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	CEC STBY	Function
1	P04/IQ12-A/TMC13/ TxD4/TDI	NC	I	M3VPu	-	I	I	NC
2	P03/IQ11-A/TMRI3/ SCK4/TMS	NC	I	M3VPu	-	I	I	NC
3	P67/DA1	HIN SELA	O	-	-	L	L	For HDMI 4/5/6/F selection(TC4052)
4	P66/DA0	HIN SELB	O	-	-	L	L	For HDMI 4/5/6/F selection(TC4052)
5	AVSS	AVSS	-	-	-	-	-	GND
6	P02/IQ10-A/TMO2/ SCK6/TRST#	NC	I	Pd	-	I	I	NC
7	P01/IQ9-A/TMC12/RxD6	RXD MI2320	I	M3VPu	-	I	I	Data received from the external pin(AMX) /MITSUBISHI writer rewrite
8	P00/IQ8-A/TMRI2/TxD6	TXD MO232I	O	-	-	L	L	Data transfer to external pin(AMX) /MITSUBISHI writer rewrite
9	P65/IQ15-A	POWER KEY	I	M3VPu	-	I	I	POWER KEY (WAIT MODE cancel, interrupt port)
10	EMLE	EMLE	I	Pd	-	-	-	Emulator communication pin
11	WDTOVF#TDO	TDO/WDTOVF#	O/O	-	-	-	-	Emulator communication pin
12	VSS	VSS	I	-	-	-	-	GND
13	MDE	MDE	I	Pd	-	-	-	NC

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	CEC STBY	Function
14	VCL	VCL	I	-	-	-	-	Smoothing capacitor connection pin
15	MD1	MD1	I	M3VPu	-	-	-	NC
16	MD0	MD0	I	M3VPu	-	-	-	NC
17	P86	(MUTE POWER)	O	-	-	L	L	Reserve (PRE MUTE control)
18	P85	REMOTE POWER(232C)	O	-	-	L	L	232C POWER control pin(ON: H)
19	RES#	RESET	I	-	-	-	-	Reset input (reset: L)
20	XTAL	XTAL	I	-	-	-	-	Clock input
21	VSS	VSS	-	-	-	-	-	GND
22	EXTAL	EXTAL	-	-	-	-	-	Clock output
23	VCC	VCC	-	-	-	-	-	+3.3V
24	NMI	NMI	I	M3VPu	-	-	-	NC
25	P34/IRQ4-A/PO12/ TIOCA1	BDOWN	I	-	-	I	I	Power failure detection pin(Power failure:L)
26	P33/IRQ3-A/PO11/ TIOCC0/TIOCD0/ TCLKB-A	PLDAERR	I	-	-	L	L	PLD ERROR detection pin
27	P32/IRQ2-A/PO10/ TIOCC0/TCLKA-A	FLASHER IN (U version Only)	O/I	-	-	L/I	L/I	FLASHER (RC-5) input pin (U Version Only)
28	P31/IRQ1-A/PO9/TIOCA0/ TIOCB0	ADV7623 INT1	I	-	-	I	I	HDMI transmitter /receiver / OSD (ADV7623) INT1 output pin
29	P30/IRQ0-A/PO8/TIOCA0	RC IN	I	-	-	I	I	Remote control signal input pin
30	P27/PO7/TIOCA5/ TIOCB5/SCK1	ADV7511 RST	O	SW3VPu	-	L	H	HDMI transmitter RESET control pin (ADV7511)
31	P26/PO6/TIOCA5/TMO1/ TxD1	RC-5 Output pin	O	-	3->5	L	L	IPOD communication control pin
32	P25/PO5/TIOCA4/TMC1/ Rx1D1	KILL IR	O	-	5->3	L	L	RC input Disable/Enable control pin
33	P24/PO4/TIOCA4/ TIOCB4/TMRI1	TU RST/(TU STEREO)	O/I	SW3VPu	-	L/L	L/L	TUNER RESET pin (U Version) / TUNER ST control pin (N,F,K Version)
34	P23/PO3/TIOCC3/TIOCD3	E RESET	O	-	-	L	L	ETHERNET RESET control pin (DM860)
35	P22/PO2/TIOCC3/TMO0/ SCK0	E POWER	O	-	-	L	L	ETHERNET POWER control pin (DM860)
36	P21/PO1/TIOCA3/TMC1/ Rx1D0	E_RXDMIEO	O	-	-	L	L	ETHERNET communication control pin (DM860)
37	P20/PO0/TIOCA3/ TIOCB3/TMRI0/TxD0	E_TXDMOEI	O	-	-	L	L	ETHERNET communication control pin (DM860)
38	P17/IRQ7-B/TCLKD-B/ Tx1D3/SCL0/ADTRG1#	TU SCLK/TU SCL	O	-	-	L	L	TUNER control pin
39	PLLVCC	PLLVCC	-	-	-	-	-	+3.3V
40	P16/IRQ6-B/TCLKC-B/ Rx1D3/SDA0	TU SDIO/TU SDA	O/I_O	-/SW3VPu	-	L/L	L/L	TUNER control pin
41	PLLSS	PLLSS	-	-	-	-	-	GND
42	P15/IRQ5-B/TCLKB-B/ SCK3/SCL1	HSCL (400k)	O	CEC3VPu	-	L	L	VIDEO I2C- HDMI TX,RX,OSD(ADV7623)/HDMI_ TX(ADV7511)/HDMI SW(ADV3002) /A to H decoder(ADV7844)
43	P14/IRQ4-B/TCLKA-B/ SDA1	HSDA (400k)	I_O	CEC3VPu	-	L	L	VIDEO I2C- HDMI TX,RX,OSD(ADV7623)/HDMI_ TX(ADV7511)/HDMI SW(ADV3002) /A to H decoder(ADV7844)
44	P13/IRQ3-B/TxD2/ ADTRG0#	ADV7623 SPI MO	O	-	-	L	L	OSD control pin (ADV7623)
45	P12/IRQ2-B/RxD2	ADV7623 SPI MI	I	-	-	L	L	OSD control pin (ADV7623)
46	P11/IRQ1-B/SCK2	ADV7623 SPI CLK	O	-	-	L	L	OSD control pin (ADV7623)
47	P10/IRQ0-B	ADV7623 SPI CS	O	-	-	L	L	OSD control pin (ADV7623)
48	P37/PO15/TIOCA2/ TIOCB2/TCLKD-A	EEPROM SDA	I_O	M3VPu	-	I	I	EEPROM control pin
49	P36/PO14/TIOCA2	EEPROM SCL	O	M3VPu	-	I	I	EEPROM control pin
50	P35/PO13/TIOCA1/ TIOCB1/TCLKC-A	ADV7844 RST	O	SW3VPu	-	L	H	HDMI decoder RESET control pin (ADV7844)
51	P84	CEC_OUT	O	-	-	L	-	CEC-D signal input pin
52	P57/WAIT#/TRDATA3	ADV3002 RST	O	SW3VPu	-	L	L	HDMI switcher RESET control pin (ADV3002)
53	P56/TRDATA2	E SPI MOEI	O	N3VPu	-	L	L	ETHERNET communication control pin (DM860)
54	P55/TRDATA1	ADV7623 RST	O	SW3VPu	-	L	L	HDMI Tx/Rx/OSD RESET control pin (ADV7623)
55	P54/TRDATA0	E SPI MIEO	I	N3VPu	-	L	L	ETHERNET communication control pin (DM860)
56	P83	E SPI CLK	O	N3VPu	-	L	L	ETHERNET communication control pin (DM860)
57	VSS	VSS	-	-	-	-	-	GND
58	P82/TRCLK	FL CE	O	-	-	L	L	FL control order pin
59	VCC	VCC	-	-	-	-	-	+3.3V

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	CEC STBY	Function
60	P81/TRSYNC	FL RST	O	-	-	L	L	FL control order pin
61	P80	S VSEL B	O	-	-	L	L	S VIDEO switcher control pin (TC4052)
62	BCLK/P53	BT LINK	I	SW3VPu	-	L	L	Bluetooth detection pin
63	P52/RD#	COMPS DET	I	SW3VPu	-	L	L	COMPONENT IN signal presence detection pin
64	P51/WR1#BC1#	Z1 VSIG.DET	I	SW3VPu	-	L	L	VIDEO IN signal presence detection pin (input:H)
65	P50/WR0#/WR#	NC	O	-	-	L	L	NC
66	P77	S VSEL A	O	-	-	L	L	VIDEO switcher control pin (TC4052)
67	P76/IRQ14-A	TU GPO2_INT/(TUNED)	I/I	-/SW3VPu	-	L/L	L/L	TUNER GPIO2 input pin (U Version) /TUNER TUNED input pin (N,F,K Version)
68	P75	DSP ROMRST	O	-	-	L	L	Memory reset for DSP (Reset : L)
69	PC7/A23/CS4#-D/CS7#-D/ TxD5	DSP MOSI	O	DA3VPu	-	L	L	DSP control pin (ADSP21487KSWZ-3B)
70	PC6/A22/CS6#-D/RxD5	DSP MISO	I	DA3VPu	-	L	L	DSP control pin (ADSP21487KSWZ-3B)
71	PC5/A21/CS5#-D/SCK5	DSPI CLK	O	DA3VPu	-	L	L	DSP control pin (ADSP21487KSWZ-3B)
72	PC4/A20	DSP RST	O	-	-	L	L	DSP(ADSP21487KSWZ-3B) reset output pin (Reset : L)
73	PC3/A19	DSP FLAG0	I	Pd	-	L	L	DSP control pin (ADSP21487KSWZ-3B)
74	VCC	VCC	-	-	-	-	-	+3.3V
75	PC2/A18	DSP ICS	O	DA3VPu	-	L	L	DSP control pin (ADSP21487KSWZ-3B)
76	VSS	VSS	-	-	-	-	-	GND
77	PC1/A17	GRN LED	O	-	-	L	L	POWER LED control pin(ON:H)
78	PC0/A16	RED LED	O	-	-	L	L	POWER/STANDBY LED control pin (ON:H)
79	PB7/A15/PO31/TIOCA11/ TIOCB11	H/P RL	O	-	-	L	L	HEADPHONE RLY control pin
80	PB6/A14/PO30/TIOCA11	FRONT RL	O	-	-	L	L	LRELAY control pin
81	PB5/A13/PO29/TIOCA10/ TIOCB10	T.MUTE	O	-	-	L	L	TUNER MUTE control pin(MUTE:L)
82	PB4/A12/PO28/TIOCA10	TU_SEN (U Version)/ NC(N,F,K Version)	O/O	-	-	L/L	L/L	TUNER control pin (U Version) / NC(N,F,K Version)
83	PB3/A11/PO27/TIOCC9/ TIOCD9	C/S RL	O	-	-	L	L	LRELAY control pin
84	PB2/A10/PO26/TIOCC9	SB RL	O	-	-	L	L	LRELAY control pin
85	PB1/A9/PO25/TIOCA9/ TIOCB9	D5V POWER	O	-	-	L	H	Digital 5V power supply control pin
86	P74/ADTRG3#	DIR CE	O	-	-	L	L	DIR control pin (LC89058W-E)
87	P73	DIR DIN	O	-	-	L	L	DIR control pin (LC89058W-E)
88	P72	DIR DOUT	I	DA3VPu	-	I	I	DIR control pin (LC89058W-E)
89	P71/CS4#-C/CS5#-C/ CS6#-C/CS7#-C	DIR CLK	O	-	-	L	L	DIR control pin (LC89058W-E)
90	P70/CS3#-B/ADTRG2#	DIR RST1	O	-	-	L	L	DIR control pin (LC89058W-E)
91	VCC	VCC	-	-	-	-	-	+3.3V
92	PB0/A8/PO24/TIOCA9	7623 ROM HOLD	O	-	-	L	L	SPI FLASH ROM HOLD control pin (ADV7623)
93	VSS	VSS	-	-	-	-	-	GND
94	PA7/A7/PO23/TIOCA8/ TIOCB8/TCLKH	DIR(ETHER) RST	O	-	-	L	L	DIR (ETHER) RESET control pin (LC89058W)
95	PA6/A6/PO22/TIOCA8	VSEL A	I	-	-	I	I	Master Volume rotation detection pin(Rotary encoder)
96	PA5/A5/PO21/TIOCA7/ TIOCB7/TCLKG	VSEL B	I	-	-	I	I	Master Volume rotation detection pin(Rotary encoder)
97	PA4/A4/PO20/TIOCA7	DIR(ETHER) CE	O	-	-	L	L	DIR (ETHER) CE control pin (LC89058W)
98	PA3/A3/PO19/TIOCC6/ TIOCD6/TCLKF	DAC(ETHER) MUTE	O	-	-	L	L	DAC (ETHER) MUTE control pin (AK4424ET)
99	PA2/A2/PO18/TIOCC6/ TCLKE	PRE Z2 MUTE	O	-	-	L	L	PRE OUT MUTE control pin
100	PA1/A1/PO17/TIOCA6/ TIOCB6	PRE FRONT MUTE	O/O	-	-	L/L	L/L	PRE OUT(FRONT) MUTE control pin
101	PA0/A0/BC0#/PO16/ TIOCA6	PRE SW MUTE	O	-	-	L	L	PRE OUT(SW) MUTE control pin
102	PE7/IRQ7-A/D15	ADV7623 INT2	I	-	-	I	I	HDMI RECEIVER INT2 output pin (ADV7623)
103	PE6/IRQ6-A/D14	ADV7623 Tx INT	I	-	-	I	I	HDMI signal detection pin (ADV7623)
104	PE5/IRQ5-A/D13	ADV7511 Tx INT	O	-	-	L	L	HDMI signal detection pin (ADV7511)
105	PE4/D12	ISEL A	I	SW3Pu	-	I	I	Input Selector rotation detection pin(Rotary encoder)
106	PE3/D11	ISEL B	I	SW3Pu	-	I	I	Input Selector rotation detection pin(Rotary encoder)
107	PE2/D10	VOL CLK	O	-	-	L	L	FUNCTION/VOLUME control pin(R2A15218)
108	PE1/D9	VOL DATA	O	-	-	L	L	FUNCTION/VOLUME control (R2A15218)
109	PE0/D8	PLD WRITE	O	-	-	L	L	A.PLD /JTAG switching control pin
110	PD7/D7	JTAG TDO	I	-	-	L	L	A.PLD rewriting control pin(JTAG)
111	PD6/D6	JTAG TMS/APLD CS	O	-	-	L	L	A.PLD rewriting & control pin

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	CEC STBY	Function
112	PD5/D5	JTAG TDI/APLD DATA/DAC DATA	O	-	-	L	L	A.PLD rewriting & control /DAC control pin
113	PD4/D4	JTAG TCK/APLD CLK/DAC CLK	O	-	-	L	L	A.PLD rewriting & control /DAC control pin
114	P64/CS4#-B	ADC RST	O	-	-	L	L	A/D converter control pin(AK5358B)
115	P63/CS3#-A/CS7#-A	E SPI REQ	I	Pd	-	L	L	ETHERNET communication control pin(DM860)
116	P62/CS2#-A/CS6#-A	E SPI CS	O	N3VPu	-	L	L	ETHERNET communication control pin(DM860)
117	P61/CS1#-A/CS2#-B/ CS5#-A/CS6#-B/CS7#-B	DAC MS	O	-	-	L	L	A/D converter control pin(AK4358VQ)
118	P60/CS0#-A/CS4#-A/ CS5#-B	DAC RST	O	-	-	L	L	A/D converter control pin(AK4358VQ)
119	PD3/D3	VEXP STB	O	-	3->5	L	L	VIDEO expander control pin(MC14094BD)
120	PD2/D2	VEXP OE	O	Pd	3->5	L	L	VIDEO expander control pin(MC14094BD)
121	PD1/D1	VEXP CLK/FL CLK	O	-	3->5/-	L	L	VIDEO expander control (MC14094BD) & FL control pin
122	PD0/D0	VEXP DIN/FL DATA	O	-	3->5/-	L	L	VIDEO expander control (MC14094BD) & FL control pin
123	P97/AN15	DA POWER	O	-	-	L	L	Digital power supply (DA3.3V & DA1.2V) control pin (ON:H)
124	P96/AN14	CEC POWER	O	-	-	L	H	CEC power supply (CEC5V & CEC3.3V & CEC1.8V) control pin for CEC STANDBY.
125	P95/AN13	DV POWER	O	-	-	L	※	Digital (VIDEO) power supply (DV5V & DV3.3V) control pin. *CEC STANDBY:MODE1=H, MODE2=L
126	P94/AN12	DV POWER2	O	-	-	L	※	Digital (VIDEO) power supply (DV1.8V) control pin. *CEC STANDBY:MODE1=H, MODE2=L
127	P93/AN11	MAIN POWER	O	-	-	L	L	MAIN POWER control pin
128	P92/AN10	CPU POWER	O	-	-	L	L	MAIN CPU POWER pin (POWER ON: H CEC ON = STANDBY: H)
129	P91/AN9	MODEL	I	-	-	I	I	MODEL switch input pin (No assign)
130	VSS	VSS	-	-	-	-	-	GND
131	P90/AN8	MODE	I	-	-	I	I	Destination detection pin
132	VCC	VCC	-	-	-	-	-	+3.3V
133	P47/IRQ15-B/AN7	THERMAL B/DC DET/ASO	I	-	-	I	I	ASO PROTECT / DC PROTECT / HEAT PROTECT-B detection pin
134	P46/IRQ14-B/AN6	H/P DET / MIC DET/THERMAL A	I	-	-	I	I	MIC detection / Headphone detection / HEAT PROTECT-A detection pin
135	P45/IRQ13-B/AN5	KEY3	I	SW3VPu	-	I	I	Button input 3
136	P44/IRQ12-B/AN4	KEY2	I	SW3VPu	-	I	I	Button input 2
137	P43/IRQ11-B/AN3	KEY1	I	SW3VPu	-	I	I	Button input 1
138	P42/IRQ10-B/AN2	RDS DATA	I	-	5->3	I	I	RDS control (N Version Only)
139	P41/IRQ9-B/AN1	RDS CLK	I	-	5->3	I	I	RDS control (N Version Only)
140	AVSS	AVSS	-	-	-	-	-	GND
141	P40/IRQ8-B/AN0	CEC_IN	I	SW3VPu	-	I	I	CEC-D signal input pin
142	VREF	VREF	-	-	-	-	-	Reference voltage (+3.3V) input pin for A/D port
143	AVCC	AVCC	-	-	-	-	-	+3.3V
144	P05/IRQ13-A/TMO3/ RxD4/TCK	NC	I	M3VPu	-	I	I	NC

MC14094BDTR2G (HDMI : IC35)

PIN ASSIGNMENT

STROBE	1	•	16	V _{DD}
DATA	2		15	OUTPUT ENABLE
CLOCK	3		14	Q ₅
Q ₁	4		13	Q ₆
Q ₂	5		12	Q ₇
Q ₃	6		11	Q ₈
Q ₄	7		10	Q' _S
V _{SS}	8		9	Q _S

TRUTH TABLE

Clock	Output Enable	Strobe	Data	Parallel Outputs		Serial Outputs	
				Q ₁	Q _N	Q _S *	Q' _S
	0	X	X	Z	Z	Q ₇	No Chg.
	0	X	X	Z	Z	No Chg.	Q ₇
	1	0	X	No Chg.	No Chg.	Q ₇	No Chg.
	1	1	0	0	Q _N -1	Q ₇	No Chg.
	1	1	1	1	Q _N -1	Q ₇	No Chg.
	1	1	1	No Chg.	No Chg.	No Chg.	Q ₇

Z = High Impedance X = Don't Care

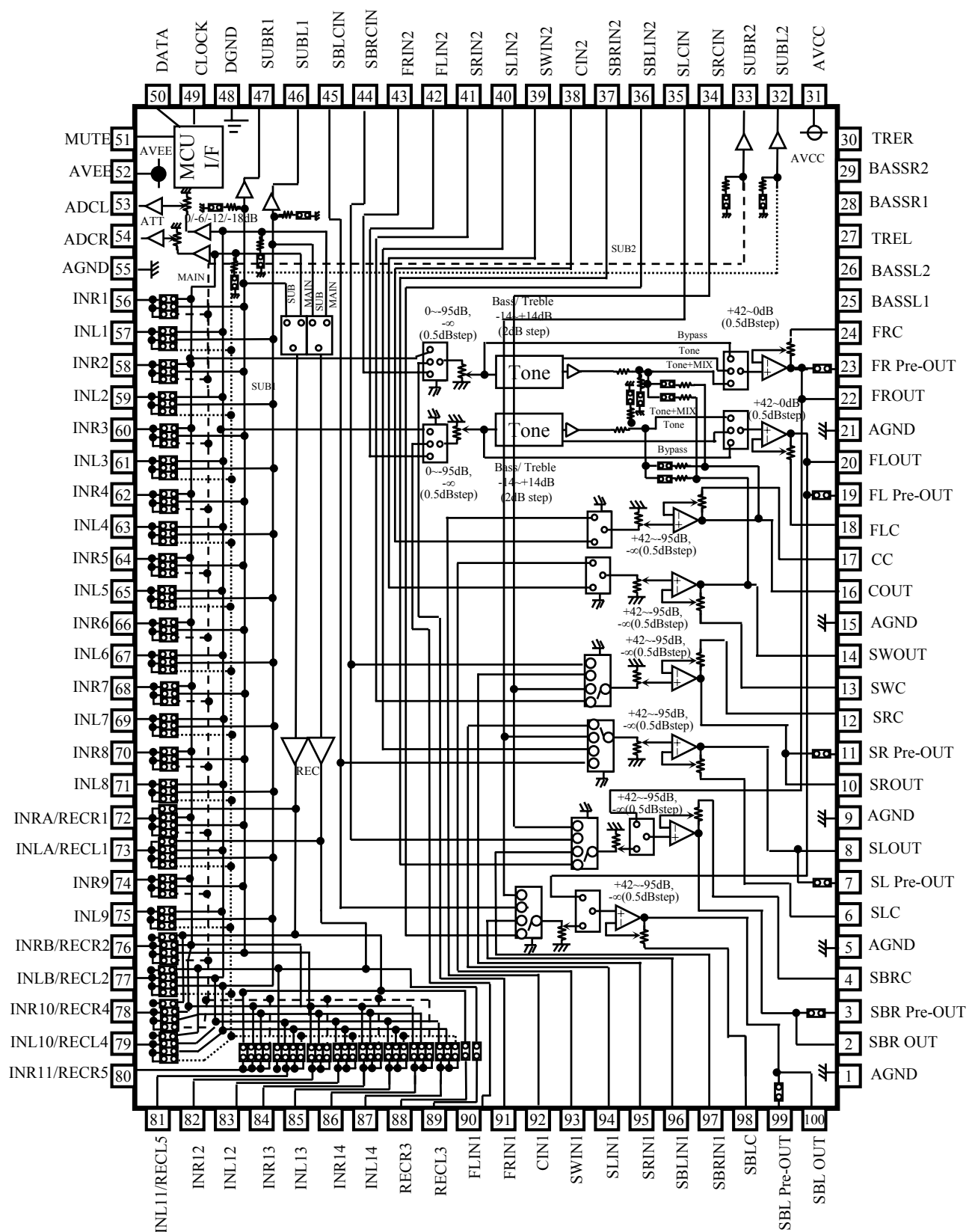
* At the positive clock edge, information in the 7th shift register stage is transferred to Q₈ and Q_S.

MC14094BDTR2G Terminal Function

Device	Pin	Pin Name	Symbol	I/O	Function
HDMI:IC35	4	EXP1 (Q1)	VINA	O	CVBS input select control pin (TC4051)
	5	EXP2 (Q2)	VINB	O	CVBS input select control pin (TC4051)
	6	EXP3 (Q3)	VINC	O	CVBS input select control pin (TC4051)
	7	EXP4 (Q4)	P.SAVE	O	COMPONENT output MUTE control pin (NJM2586)
	11	EXP5 (Q8)	COMP SW2	O	VIDEO SELECT IC(NJW2586)
	12	EXP6 (Q7)	COMP SW1	O	VIDEO SELECT IC(NJW2586)
	13	EXP7 (Q6)	MONIB	O	CVBS monitor output signal control pin(TC4052)
	14	EXP8 (Q5)	MONIA	O	CVBS monitor output signal control pin(TC4052)

Device	Pin	Pin Name	Symbol	I/O	Function
HDMI:IC36	4	EXP1 (Q1)	DIRECT LED	O	PURE DIRECT LED Control
	5	EXP2 (Q2)	M-DAX LED	O	M-DAX LED Control
	6	EXP3 (Q3)	AUDYSSEY LED	O	Reserve
	7	EXP4 (Q4)	ILLUMI LED	O	Reserve
	11	EXP5 (Q8)	AUDYSSEY LED 2	O	Reserve
	12	EXP6 (Q7)	TRIG1	O	Reserve
	13	EXP7 (Q6)	FH RY	O	Reserve
	14	EXP8 (Q5)	FB RY	O	FRONT B SPK Relay Control

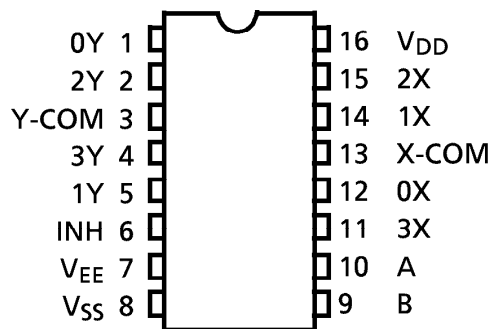
R2A15218FP (AV : IC801)



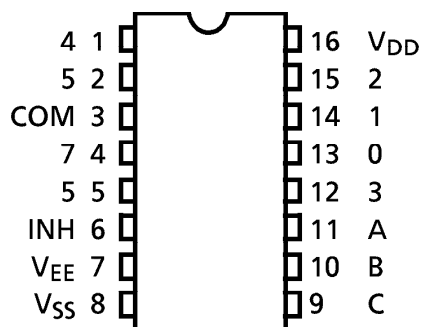
R2A15218FP Pin Function

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

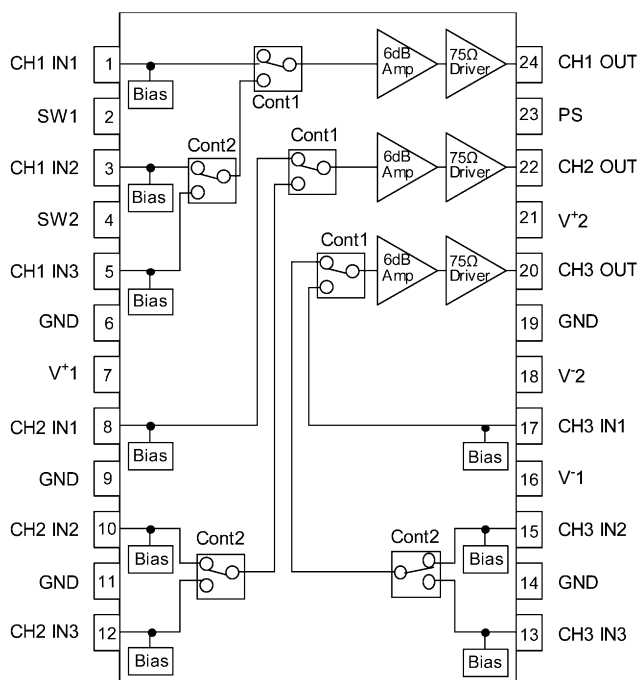
TC4052BFT (AV : IC806,826)



TC4051BFT (AV : IC822)

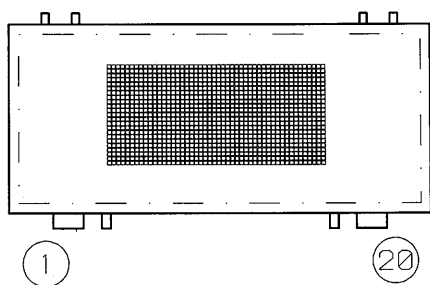


NJM2586AM (AV : IC825)



2. FL DISPLAY

FLD (GP1261AI) (FRONT : FLT1)



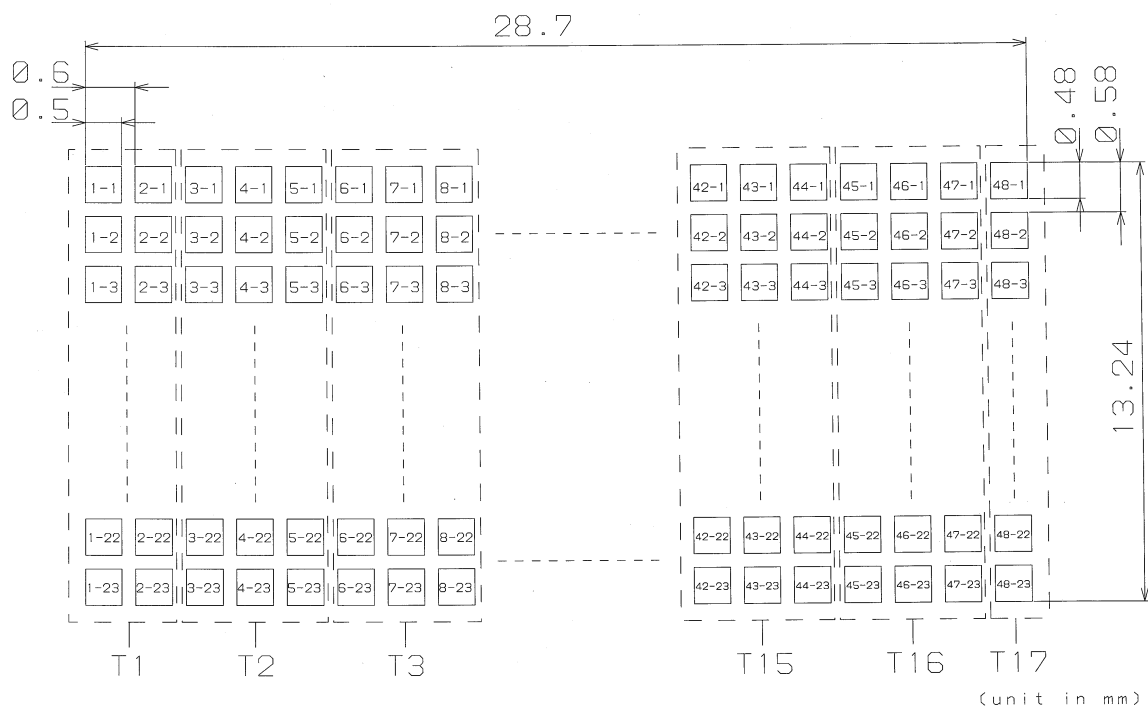
PIN CONNECTION

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CONNECTION	F	N	N	N	N	N	T	I	I	D	C	-	Q							
	-	P	C	C	C	C	T	T	T	I	O	K	S	C	C	H	D	D	D	P

- NOTE
- 1) F-, F+ --- Filament
 - 2) NP ----- No pin
 - 3) DL ----- Datum Line
 - 4) VDD ----- Logic Voltage Supply pin
 - 5) LGND ----- Logic GND pin
 - 6) PGND ----- Power GND pin
 - 7) VH ----- High Voltage Supply pin
 - 8) OSC ----- Pin for self-oscillation
 - 9) CS ----- Chip Select Input pin
 - 10) CLK ----- Shift Register Clock

- 11) DIO ----- Serial Data Input
- 12) RESET --- Reset Input
- 13) INT ----- Int pin
- 14) TEST --- Test pin
- 15) Solder composition is Sn-3Ag-0.5Cu.
- 16) NC ----- No connection
(NC pin should be electrically open on the PC board)

PATTERN DETAIL



COLOR OF ILLUMINATION

Green (G. x=0.24,y=0.41) - - - - All graphics.

PARTS LIST OF P.C.B. UNIT

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

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

Note: The symbols in the column "Remarks" indicate the following destinations.

U : North America model

N : Europe model

K : China model

B : Black model

SG : Silver gold model

PCB 7CH_AMP ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
Q401,402	00D2710314903	TR 2SA KTA1024Y	J5001024Y0050S		
Q403	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q405	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q406	00D2730479909	TR 2SC 2N5551S	J522255510010S		
Q407,408	00D9600196205	TR 2SA KSA992F	J5000992F0050S		
Q411,412	00D2730471907	TR 2SC KTC3206Y	J5023206Y0050S		
Q413,414	00D2710314903	TR 2SA KTA1024Y	J5001024Y0050S		
Q415	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q418	00D2730479909	TR 2SC 2N5551S	J522255510010S		
Q419,420	00D9600196205	TR 2SA KSA992F	J5000992F0050S		
Q423,424	00D2730471907	TR 2SC KTC3206Y	J5023206Y0050S		
Q425,426	00D2710314903	TR 2SA KTA1024Y	J5001024Y0050S		
Q427	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q430	00D2730479909	TR 2SC 2N5551S	J522255510010S		
Q431,432	00D9600196205	TR 2SA KSA992F	J5000992F0050S		
Q435,436	00D2730471907	TR 2SC KTC3206Y	J5023206Y0050S		
Q437,438	00D2710314903	TR 2SA KTA1024Y	J5001024Y0050S		
Q439	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q442	00D2730479909	TR 2SC 2N5551S	J522255510010S		
Q443,444	00D9600196205	TR 2SA KSA992F	J5000992F0050S		
Q447,448	00D2730471907	TR 2SC KTC3206Y	J5023206Y0050S		
Q449,450	00D2710314903	TR 2SA KTA1024Y	J5001024Y0050S		
Q451	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q454	00D2730479909	TR 2SC 2N5551S	J522255510010S		
Q455,456	00D9600196205	TR 2SA KSA992F	J5000992F0050S		
Q459,460	00D2730471907	TR 2SC KTC3206Y	J5023206Y0050S		
Q461,462	00D2710314903	TR 2SA KTA1024Y	J5001024Y0050S		
Q463	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q466	00D2730479909	TR 2SC 2N5551S	J522255510010S		
Q467,468	00D9600196205	TR 2SA KSA992F	J5000992F0050S		
Q471,472	00D2730471907	TR 2SC KTC3206Y	J5023206Y0050S		
Q473,474	00D2710314903	TR 2SA KTA1024Y	J5001024Y0050S		
Q475	00D2710318909	TR 2SA 2N5401S	J520254010010S		
Q478	00D2730479909	TR 2SC 2N5551S	J522255510010S		
Q479,480	00D9600196205	TR 2SA KSA992F	J5000992F0050S		
Q483,484	00D2730471907	TR 2SC KTC3206Y	J5023206Y0050S		
D401-442	00D2760401905	D,SWITCHING 1SS133T	K000013300520S		
D457,458	00D9630355401	D,SWITCHING KDS4148U	K005041480030S		
ZD401	00D2760643983	D,ZENER MTZJ5.1A	K06005R134520S		
ZD402,403	00D2760760934	D,ZENER MTZJ4.7B	K06004R744520S		
ZD404	00D2760643983	D,ZENER MTZJ5.1A	K06005R134520S		
ZD405,406	00D2760760934	D,ZENER MTZJ4.7B	K06004R744520S		
ZD407	00D2760643983	D,ZENER MTZJ5.1A	K06005R134520S		
ZD408,409	00D2760760934	D,ZENER MTZJ4.7B	K06004R744520S		
ZD410	00D2760643983	D,ZENER MTZJ5.1A	K06005R134520S		
ZD411,412	00D2760760934	D,ZENER MTZJ4.7B	K06004R744520S		
ZD413	00D2760643983	D,ZENER MTZJ5.1A	K06005R134520S		
ZD414,415	00D2760760934	D,ZENER MTZJ4.7B	K06004R744520S		
ZD416	00D2760643983	D,ZENER MTZJ5.1A	K06005R134520S		
ZD417,418	00D2760760934	D,ZENER MTZJ4.7B	K06004R744520S		
ZD419	00D2760643983	D,ZENER MTZJ5.1A	K06005R134520S		
ZD420,421	00D2760760934	D,ZENER MTZJ4.7B	K06004R744520S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
RESISTORS GROUP							
	R403	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R405	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R406	252310006506S	POSISTOR PRF18BB471QB5RB		F320184710051S		
	R415	963125012630S	R,METAL FILM 22-J,1W	FLAME RETARDANT	C060022065050S		
	R418	963125010690S	R,METAL FILM 15K-J,2W		C060015366050S		
	R424,425	00D9630345903	R,FIXED 2WJ-0.47	FLAME RETARDANT	N113136647820S		
	R430,431	00D9630345903	R,FIXED 2WJ-0.47	FLAME RETARDANT	N113136647820S		
	R434	nsp	R,METAL FILM 3.3K-J,1W		C060033265050S		
	R439	963125012630S	R,METAL FILM 22-J,1W	FLAME RETARDANT	C060022065050S		
	R441,442	nsp	R,METAL FILM 1K-J,1W		C060010265050S		
	R443	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R447,448	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R449	252310006520S	POSISTOR PRF18BD471QB5RB		F320184710150S		
	R450	252310006506S	POSISTOR PRF18BB471QB5RB		F320184710051S		
	R458	963125012630S	R,METAL FILM 22-J,1W	FLAME RETARDANT	C060022065050S		
	R461	963125010690S	R,METAL FILM 15K-J,2W		C060015366050S		
	R464	252310006520S	POSISTOR PRF18BD471QB5RB		F320184710150S		
	R467,468	00D9630345903	R,FIXED 2WJ-0.47	FLAME RETARDANT	N113136647820S		
	R474,475	00D9630345903	R,FIXED 2WJ-0.47	FLAME RETARDANT	N113136647820S		
	R478	nsp	R,METAL FILM 3.3K-J,1W		C060033265050S		
	R483	963125012630S	R,METAL FILM 22-J,1W	FLAME RETARDANT	C060022065050S		
	R485,486	nsp	R,METAL FILM 1K-J,1W		C060010265050S		
	R487	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R491,492	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R494	252310006506S	POSISTOR PRF18BB471QB5RB		F320184710051S		
	R502	963125012630S	R,METAL FILM 22-J,1W	FLAME RETARDANT	C060022065050S		
	R505	963125010690S	R,METAL FILM 15K-J,2W		C060015366050S		
	R511,512	00D9630345903	R,FIXED 2WJ-0.47	FLAME RETARDANT	N113136647820S		
	R517,518	00D9630345903	R,FIXED 2WJ-0.47	FLAME RETARDANT	N113136647820S		
	R521	nsp	R,METAL FILM 3.3K-J,1W		C060033265050S		
	R526	963125012630S	R,METAL FILM 22-J,1W	FLAME RETARDANT	C060022065050S		
	R528,529	nsp	R,METAL FILM 1K-J,1W		C060010265050S		
	R530	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R533	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R535	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R537	252310006506S	POSISTOR PRF18BB471QB5RB		F320184710051S		
	R545	963125012630S	R,METAL FILM 22-J,1W	FLAME RETARDANT	C060022065050S		
	R548	963125010690S	R,METAL FILM 15K-J,2W		C060015366050S		
	R554,555	00D9630345903	R,FIXED 2WJ-0.47	FLAME RETARDANT	N113136647820S		
	R561,562	00D9630345903	R,FIXED 2WJ-0.47	FLAME RETARDANT	N113136647820S		
	R564	nsp	R,METAL FILM 3.3K-J,1W		C060033265050S		
	R569	963125012630S	R,METAL FILM 22-J,1W	FLAME RETARDANT	C060022065050S		
	R571,572	nsp	R,METAL FILM 1K-J,1W		C060010265050S		
	R573	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R576	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R578	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R580	252310006506S	POSISTOR PRF18BB471QB5RB		F320184710051S		
	R588	963125012630S	R,METAL FILM 22-J,1W	FLAME RETARDANT	C060022065050S		
	R591	963125010690S	R,METAL FILM 15K-J,2W		C060015366050S		
	R597,598	00D9630345903	R,FIXED 2WJ-0.47	FLAME RETARDANT	N113136647820S		
	R603,604	00D9630345903	R,FIXED 2WJ-0.47	FLAME RETARDANT	N113136647820S		
	R607	nsp	R,METAL FILM 3.3K-J,1W		C060033265050S		
	R612	963125012630S	R,METAL FILM 22-J,1W	FLAME RETARDANT	C060022065050S		
	R614,615	nsp	R,METAL FILM 1K-J,1W		C060010265050S		
	R616	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R619	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R621	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R623	252310006506S	POSISTOR PRF18BB471QB5RB		F320184710051S		
	R631	963125012630S	R,METAL FILM 22-J,1W	FLAME RETARDANT	C060022065050S		
	R634	963125010690S	R,METAL FILM 15K-J,2W		C060015366050S		
	R640,641	00D9630345903	R,FIXED 2WJ-0.47	FLAME RETARDANT	N113136647820S		
	R646,647	00D9630345903	R,FIXED 2WJ-0.47	FLAME RETARDANT	N113136647820S		
	R650	nsp	R,METAL FILM 3.3K-J,1W		C060033265050S		
	R655	963125012630S	R,METAL FILM 22-J,1W	FLAME RETARDANT	C060022065050S		
	R657,658	nsp	R,METAL FILM 1K-J,1W		C060010265050S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R659	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R662	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R664	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
	R666	252310006506S	POSISTOR PRF18BB471QB5RB		F320184710051S		
	R674	963125012630S	R,METAL FILM 22-J,1W	FLAME RETARDANT	C060022065050S		
	R677	963125010690S	R,METAL FILM 15K-J,2W		C060015366050S		
	R683,684	00D9630345903	R,FIXED 2WJ-0.47	FLAME RETARDANT	N113136647820S		
	R689,690	00D9630345903	R,FIXED 2WJ-0.47	FLAME RETARDANT	N113136647820S		
	R694	nsp	R,METAL FILM 3.3K-J,1W		C060033265050S		
	R698	963125012630S	R,METAL FILM 22-J,1W	FLAME RETARDANT	C060022065050S		
	R700,701	nsp	R,METAL FILM 1K-J,1W		C060010265050S		
	R702	nsp	R,METAL FILM 270-J,1W	FLAME RETARDANT	C060027165060S		
		#N/A	#N/A				
	VR401-407	963161012400S	VR,SEMI CARBON EVN-DCAA03B 1KB		C541102315000S		
CAPACITORS GROUP							
	C401	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C403	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
	C405	nsp	C,CERAMIC 220PF-J/50V		D010221167160S		
	C406	nsp	C,CERAMIC SL220PF-J/500V		D00022106D051S		
	C407	00D9630234506	C,ELECT 47UF-M/50V (Pb Free)		D040470087070S		
	C408	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
	C409	nsp	C,CERAMIC SL220PF-J/500V		D00022106D051S		
	C410	00D9609009937	C,ELECT 100UF-M/50V		D040101087060S		
	C411,412	nsp	C,CERAMIC 470PF-K/500V		D00447127D050S		
	C413	nsp	C,CERAMIC X7R2200PF-K/50V		D011222777200S		
	C415,416	00D9630234302	C,ELECT 10UF-M/100V		D04010008C050S		
	C418	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C421	nsp	C,CERAMIC 220PF-J/50V		D010221167160S		
	C422	nsp	C,CERAMIC SL220PF-J/500V		D00022106D051S		
	C423	00D9630234506	C,ELECT 47UF-M/50V (Pb Free)		D040470087070S		
	C424	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
	C425	nsp	C,CERAMIC SL220PF-J/500V		D00022106D051S		
	C426	00D9609009937	C,ELECT 100UF-M/50V		D040101087060S		
	C427,428	nsp	C,CERAMIC 470PF-K/500V		D00447127D050S		
	C429	nsp	C,CERAMIC X7R2200PF-K/50V		D011222777200S		
	C431,432	00D9630234302	C,ELECT 10UF-M/100V		D04010008C050S		
	C434	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C437	nsp	C,CERAMIC 220PF-J/50V		D010221167160S		
	C438	nsp	C,CERAMIC SL220PF-J/500V		D00022106D051S		
	C439	00D9630234506	C,ELECT 47UF-M/50V (Pb Free)		D040470087070S		
	C440	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
	C441	nsp	C,CERAMIC SL220PF-J/500V		D00022106D051S		
	C442	00D9609009937	C,ELECT 100UF-M/50V		D040101087060S		
	C443,444	nsp	C,CERAMIC 470PF-K/500V		D00447127D050S		
	C445	nsp	C,CERAMIC X7R2200PF-K/50V		D011222777200S		
	C447,448	00D9630234302	C,ELECT 10UF-M/100V		D04010008C050S		
	C450	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C453	nsp	C,CERAMIC 220PF-J/50V		D010221167160S		
	C454	nsp	C,CERAMIC SL220PF-J/500V		D00022106D051S		
	C455	00D9630234506	C,ELECT 47UF-M/50V (Pb Free)		D040470087070S		
	C456	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
	C457	nsp	C,CERAMIC SL220PF-J/500V		D00022106D051S		
	C458	00D9609009937	C,ELECT 100UF-M/50V		D040101087060S		
	C459,460	nsp	C,CERAMIC 470PF-K/500V		D00447127D050S		
	C461	nsp	C,CERAMIC X7R2200PF-K/50V		D011222777200S		
	C463,464	00D9630234302	C,ELECT 10UF-M/100V		D04010008C050S		
	C466	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C469	nsp	C,CERAMIC 220PF-J/50V		D010221167160S		
	C470	nsp	C,CERAMIC SL220PF-J/500V		D00022106D051S		
	C471	00D9630234506	C,ELECT 47UF-M/50V (Pb Free)		D040470087070S		
	C472	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
	C473	nsp	C,CERAMIC SL220PF-J/500V		D00022106D051S		
	C474	00D9609009937	C,ELECT 100UF-M/50V		D040101087060S		
	C475,476	nsp	C,CERAMIC 470PF-K/500V		D00447127D050S		

Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
C477	nsp	C,CERAMIC X7R2200PF-K/50V		D011222777200S		
C479,480	00D9630234302	C,ELECT 10UF-M/100V		D04010008C050S		
C482	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
C485	nsp	C,CERAMIC 220PF-J/50V		D010221167160S		
C486	nsp	C,CERAMIC SL220PF-J/500V		D00022106D051S		
C487	00D9630234506	C,ELECT 47UF-M/50V (Pb Free)		D040470087070S		
C488	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
C489	nsp	C,CERAMIC SL220PF-J/500V		D00022106D051S		
C490	00D9609009937	C,ELECT 100UF-M/50V		D040101087060S		
C491,492	nsp	C,CERAMIC 470PF-K/500V		D00447127D050S		
C493	nsp	C,CERAMIC X7R2200PF-K/50V		D011222777200S		
C495,496	00D9630234302	C,ELECT 10UF-M/100V		D04010008C050S		
C498	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
C501	nsp	C,CERAMIC 220PF-J/50V		D010221167160S		
C502	nsp	C,CERAMIC SL220PF-J/500V		D00022106D051S		
C503	00D9630234506	C,ELECT 47UF-M/50V (Pb Free)		D040470087070S		
C504	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
C505	nsp	C,CERAMIC SL220PF-J/500V		D00022106D051S		
C506	00D9609009937	C,ELECT 100UF-M/50V		D040101087060S		
C507,508	nsp	C,CERAMIC 470PF-K/500V		D00447127D050S		
C509	nsp	C,CERAMIC X7R2200PF-K/50V		D011222777200S		
C511,512	00D9630234302	C,ELECT 10UF-M/100V		D04010008C050S		
C513,514	00D9630338402	C,ELECT 330UF-M/6.3V		D040331081050S		
C515	nsp	ELECT. CAP. 22UF-M/16V -5RE.SY		D040220083070S		
OTHERS PARTS GROUP						
BKT400	nsp	BRACKET 0.8t/SCREW		4010210196100S		
CN404	nsp	CN.WIRE 240MM/5P		L025241052620S		
CP401	nsp	CN.WAFER 13P STRAIGHT		L101200101310S		
CP402	nsp	CN.WAFER 5P 5267-05A		L102526700500S		
CP403	nsp	CN.WAFER 10P STRAIGHT		L101200101010S		
CP405	nsp	CN.WAFER 3P 5267-03A		L102526700300S		
G400-402	nsp	CN.WIRE 60MM/1P		L025600012040S		
J538	nsp	CN.WIRE 1P		L045061000050S		
TP401-407	nsp	CN.WAFER 3P		L101200100320S		
	nsp	RING,TER WIRE 210MM/1P		8410211012440S		

PCB SPK ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
⚠	IC100	963239010480S	IC PC123X2YFZ (DIP4P SHARP)		K614123000010S		
⚠	IC102	231010091708S	IC TOP258MG		G200258000010S		
	IC116	212050010508S	IC KIA2431AP		J126243118010S		
	Q1-6	943215500020S	TR 2SA RT1P141C		CVTRT1P141C		
	Q8-13	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
	TR100-102	00D9630255802	TR 2SC KTC3199Y		J5023199Y0010S		
	D1-6	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D8	00D2760401905	D,SWITCHING 1SS133T		K000013300520S		
	D12	00D9600262304	D,RECTIFIER BRIDGE		K047100600010S		
	D100-102	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D103	203050018706S	D,SCHOTTKY D25SC6M 60V 25A		K120256000010S		
	D104-106	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D108	963209010430S	D,FAST RECOVERY AP01C-V1 52RE-AX		K050000015000S		
	D109,110	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D112	00D2760401905	D,SWITCHING 1SS133T		K000013300520S		
	ZD100	963202010440S	D,ZENER MTZJ22B		K06022R044520S		
	ZD101	00D2760762958	D,ZENER MTZJ39B	U1B	K06039R044520S		
	ZD102	963202010440S	D,ZENER MTZJ22B		K06022R044520S		
	ZD103	00D2760762958	D,ZENER MTZJ39B	U1B	K06039R044520S		
	ZD104	963202010440S	D,ZENER MTZJ22B		K06022R044520S		
	ZD105	00D2760762958	D,ZENER MTZJ39B	U1B	K06039R044520S		
	ZD106,107	963202010440S	D,ZENER MTZJ22B		K06022R044520S		
	ZD108,109	00D2760762958	D,ZENER MTZJ39B	U1B	K06039R044520S		
	ZD110	963202010440S	D,ZENER MTZJ22B	U1B	K06022R044520S		
	ZD110	00D2760762958	D,ZENER MTZJ39B	N1B,N1SG,K1B	K06039R044520S		
	ZD111	00D2760762958	D,ZENER MTZJ39B	N1B,N1SG,K1B	K06039R044520S		
	ZD112	963202010440S	D,ZENER MTZJ22B		K06022R044520S		
	ZD113	00D2760762958	D,ZENER MTZJ39B	N1B,N1SG,K1B	K06039R044520S		
	ZD114	00D9600095607	D,ZENER MTZJ5.6B		K06005R644520S		
	ZD115	00D2760762958	D,ZENER MTZJ39B		K06039R044520S		
	ZD116	00D2760762958	D,ZENER MTZJ39B	N1B,N1SG,K1B	K06039R044520S		
	ZD117,118	963202010440S	D,ZENER MTZJ22B		K06022R044520S		
	ZD119	00D2760762958	D,ZENER MTZJ39B	N1B,N1SG,K1B	K06039R044520S		
	DZ1	00D9600095801	D,ZENER MTZJ6.8B		K06006R844520S		
RESISTORS GROUP							
	R5-18	963125010100S	R,METAL FILM 10-J 2W		C060010066050S		
	R28-33	00D9630310404	R,METAL FILM 2.2K-J,1W		C06002265050S		
	R34	nsp	R,METAL FILM 10K-J,1/4W		C060103063050S		
	R35,36	nsp	R,METAL FILM 47K-J,1/4W		C060047363050S		
	R37,38	963125010110S	R,METAL FILM 470-J,2W		C060047166060S		
CAPACITORS GROUP							
	C1	nsp	C,FILM MI-0.047UF-J/50V		D020473167050S		
	C2	nsp	C,CERAMIC 2200PF-K/50V		D011222777160S		
	C4	nsp	C,FILM MI-0.047UF-J/50V		D020473167050S		
	C5	nsp	C,CERAMIC 2200PF-K/50V		D011222777160S		
	C7	nsp	C,CERAMIC 2200PF-K/50V		D011222777160S		
	C9	nsp	C,FILM MI-0.047UF-J/50V		D020473167050S		
	C10	nsp	C,CERAMIC 2200PF-K/50V		D011222777160S		
	C12	nsp	C,FILM MI-0.047UF-J/50V		D020473167050S		
	C13	nsp	C,CERAMIC 2200PF-K/50V		D011222777160S		
	C15	nsp	C,CERAMIC 2200PF-K/50V		D011222777160S		
	C17	nsp	C,FILM MI-0.047UF-J/50V		D020473167050S		
	C18	nsp	C,CERAMIC 2200PF-K/50V		D011222777160S		
	C20	nsp	C,CERAMIC 2200PF-K/50V		D011222777160S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C22	nsp	C,FILM MI-0.047UF-J/50V		D020473167050S		
	C23	nsp	C,CERAMIC 2200PF-K/50V		D011222777160S		
	C25	nsp	C,FILM MI-0.047UF-J/50V		D020473167050S		
	C27	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C30	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C33	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C36	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C39	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C42	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C45	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C48	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C51	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C53	00D9609009937	C,ELECT 100UF-M/50V		D040101087060S		
	C54	nsp	C,FILM MI-0.047UF-J/50V		D020473167050S		
	C55	963134010180S	C,ELECT 12000UF-M/71V		D040123089550S		
	C56	nsp	C,FILM MI-0.047UF-J/50V		D020473167050S		
	C57	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C58	963134010180S	C,ELECT 12000UF-M/71V		D040123089550S		
	C59	nsp	C,FILM MI-0.047UF-J/50V		D020473167050S		
	C60	00D9630244606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
	C61	nsp	C,FILM MI-0.047UF-J/50V		D020473167050S		
	C63	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C64	nsp	C,FILM MI-0.047UF-J/50V		D020473167050S		
	C65,66	nsp	C,FILM 0.1UF-K/250V		D02010407H080S		
	C67,68	nsp	C,FILM MI-0.047UF-J/50V		D020473167050S		
	C100	nsp	C,FILM 0.1UF-K/275V		D02110407H010S		
	C102	963134010200S	C,ELECT 100UF-M/400V		D04110108K000S		
	C103	963132010120S	C,CERAMIC DEHR33A102KB2B		D00810207Q010S		
△	C104,105	963134011730S	C,CERAMIC DE1B3KX471KB4BL01 AC250V		D00847127H010S		
	C106-108	963134010220S	C,ELECT5600UF-M/6.3V		D041562081001S		
	C110	nsp	C,CERAMIC 0.1UF-K/25V		D011104774161S		
	C111	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
	C112	963134010190S	C,ELECT 10UF-M/50V		D041100087050S		
	C113	nsp	C,CERAMIC 0.1UF-K/25V		D011104774161S		
△	C115	963132011930S	C,CERAMIC DE1E3KX222MB4BL01 AC250V		D00822248H010S		
	C116	nsp	C,CERAMIC 0.1UF-K/25V		D011104774161S		
△	C117	963132011940S	C,CERAMIC DE2F3KY103MB3BM02 AC250V		D008103589010S		
	C118	nsp	C,CERAMIC 0.1UF-K/25V		D011104774161S		
	C119	963134010210S	C,ELECT 47UF-M/25V		D041470084050S		
	C120-123	nsp	C,CERAMIC 0.1UF-K/25V		D011104774161S		
△	C131	963132011940S	C,CERAMIC DE2F3KY103MB3BM02 AC250V	N1B,N1SG,K1B	D008103589010S		
△	C133	963132011940S	C,CERAMIC DE2F3KY103MB3BM02 AC250V	N1B,N1SG,K1B	D008103589010S		
	C3115	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C3118,3119	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C3120	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C3124	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C3135	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C3141	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C3144,3145	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C3146	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C3161,3162	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
OTHERS PARTS GROUP							
	BKT1-3	nsp	BRACKET t1.0+Sn plating /PCB MTG		4010214876000S		
	BKT100	nsp	BRACKET 0.8t/SCREW		4010210196100S		
	BKT101	nsp	BRACKET SCREW		4010210196000S		
	CLAMP3	nsp	CLAMP WIRE(SOLDER)		4330000120000S		
	CN1	nsp	CN.WIRE 230MM/5P		L025231052650S		
	CN2	nsp	CN.WIRE 160MM/3P		L025161032050S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	CN3	nsp	CN.WIRE 170MM/10P		L025171102620S		
	CN7	nsp	CN.WAFER 15P C125Z2-15		L109012521510S		
	CP1	nsp	CN.WAFER 7.92MM 35328-0360		L108353280360S		
	CP12	nsp	CN.FPC 1.25MM 19P 127301119K2		L131019100010S		
	CP22	nsp	CN.WAFER 5P TUC-P05P		L101100040510S		
	CX101	nsp	CN.WIRE 370MM/5P		L025371052050S		
	CX102	nsp	CN.WAFER 7.92MM LWBP1143-02P		L108011430210S		
	CX104	nsp	CN.WAFER 5P TUC-P05X		L101100030510S		
⚠	F100	963652010510S	FUSE T2A/250V	U1B	N751502001160S		
⚠	F100	963652010500S	FUSE T1.6A/250V	N1B,N1SG,K1B	N751501601160S		
⚠	F101	963652010520S	FUSE T6.3A/250V	U1B	N751506301160S		
⚠	F101	963652010910S	FUSE T3.15A/250V	N1B,N1SG,K1B	N751503151160S		
	F100_1	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F100_2	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F101_1	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F101_2	nsp	HOLDER,FUSE CLIP		G645000050010S		
	JACK1	963643010360S	TER, BOARD 6P JB-602A-02		G613602A0200YS		
	JACK2	963646001690S	TER, BOARD 8P MST-108V1		G614108V1010MS		
	JACK3	00D9630257208	TER,BOARD SCREW 4P		G612405E0200YS		
	JACK4	00D9630387505	TER,RCA 4PIN RCA-405B-55		G602405B5500YS		
	JACK5	00D9630132103	TER RCA 4PIN RCA-405B-04 (WH,WH,RD,RD)		G602405B0400YS		
	JK100	963641011240S	SOCKET,POWER AC		G4300152P0001S		
	L1-7	nsp	COIL INDUCTOR 0.5UH		D330R50000000S		
⚠	L100	963111010230S	COIL LINE FILTER LF-4ZB-E273H 27mH		D320402730020S		
⚠	RL101	963682010370S	RELAY HL31-1AT-5H 5V 1A		G680050102020S		
	RLY1	00D9630218409	RELAY BC3-12 24V 2A		G680240202030S		
	RLY2-6	963682003410S	RELAY HL3-2A-12S 12V 5A		G680120503020S		
⚠	T100	963102100020S	TRANS,SWITCHING EER2834		E060283405520S		
	W100	nsp	CN.WIRE 40MM/1P		L025400012440S		
	W101	nsp	CN.WIRE 40MM/1P		L025400012440S		
	W102	nsp	CN.WIRE 40MM/1P		L025400012440S		
	W103	nsp	CN.WIRE 40MM/1P		L025400012440S		
		nsp	FUSE LABEL T1.6AL/250V	N1B,N1SG,K1B	5507000006790S		
		nsp	FUSE LABEL T3.15AL/250V	N1B,N1SG,K1B	5507000006800S		
		nsp	CLAMP CABLE		4330040343010S		

PCB REG_CNT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC103	00D2630553006	IC NJM7805FA		J126780500130S		
	IC104	00D2630554005	IC NJM7905FA		J126790500020S		
	IC105	00D2630553006	IC NJM7805FA		J126780500130S		
	IC106	00D2630810008	IC NJM7808FA		J126780800030S		
	IC107	00D2630503001	IC NJM7908FA		J126790800020S		
	IC108	963239003420S	IC NJM2388F05	U1B	J126238800050S		
	IC108	963239010770S	IC NJM2388F09	N1B,N1SG,K1B	J126238800090S		
	IC401	00D2631289900	IC AZ4580M		J121458000020S		
	IC403	231310009508S	IC PQ033DNA1ZPH		J126033010010S		
	IC404	236810090504S	IC ILX3232D		J046323200020S		
	Q401,402	943215500020S	TR 2SA RT1P141C		CVTRT1P141C		
	Q403,404	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
	Q405	943214500020S	TR 2SC 2SC3052		CVT2SC3052		
	Q406	943215500020S	TR 2SA RT1P141C		CVTRT1P141C		
	D114	00D9630236504	D,SCHOTTKY RB721Q-40		K120072140010S		
	D115,116	00D2760401905	D,SWITCHING 1SS133T		K000013300520S		
	D117,118	00D9630236504	D,SCHOTTKY RB721Q-40		K120072140010S		
	D119-121	00D2760401905	D,SWITCHING 1SS133T		K000013300520S		
	D122	00D9630236504	D,SCHOTTKY RB721Q-40		K120072140010S		
	D123	00D2760401905	D,SWITCHING 1SS133T		K000013300520S		
	D124-126	00D9630328409	D,SWITCHING 1N4007	N1B,N1SG,K1B	K000400700010S		
	D127-134	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D137-144	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D145	00D9630328409	D,SWITCHING 1N4007	N1B,N1SG,K1B	K000400700010S		
	D401,402	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	ZD117,118	00D9600096004	D,ZENER MTZJ33B		K06033R044520S		
RESISTORS GROUP							
	R123,124	nsp	R,METAL 0.22-J,1W-R		C060R22065050S		
CAPACITORS GROUP							
	C126	963134011290S	C,ELECT 4700UF-M/16V	U1B	D040472083020S		
	C126	00D9630217002	C,ELECT 3300UF-M/16V	N1B,N1SG,K1B	D040332083010S		
	C127,128	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C129	00D9630217002	C,ELECT 3300UF-M/16V		D040332083010S		
	C130	00D9630333203	C,ELECT 100UF-M/16V		D040101083090S		
	C131	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C132	00D9630333203	C,ELECT 100UF-M/16V		D040101083090S		
	C133	90M-OA000500R	C,ELECT 4700UF-M/25V(MHA)		D040472084240S		
	C134	00D9630333203	C,ELECT 100UF-M/16V		D040101083090S		
	C135	90M-OA000500R	C,ELECT 4700UF-M/25V(MHA)		D040472084240S		
	C136	00D9630333203	C,ELECT 100UF-M/16V		D040101083090S		
	C137	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C138	963134010700S	C,ELECT 2200UF-M/25V	N1B,N1SG,K1B	D040222084030S		
	C143	nsp	C,FILM 0.1UF-J/50V		D020104167050S		
	C147	nsp	C,FILM 0.1UF-J/50V		D020104167050S		
	C401,402	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C405,406	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C414	nsp	C,CERAMIC 1UF-K/16V		D011105173161S		
	C424	nsp	C,CERAMIC 1UF-K/16V		D011105173161S		
	C426	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C428-431	00MOA10601620	10UF-M/16V,3*5-5RE SY		D040100083050S		
	C436	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C437,438	nsp	CER. CAP. COG470PF-J/50V-1608REEL		D010471167160S		
	C441,442	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C443	nsp	R,CHIP 0-J, 1/16W		C20000006M160S		
	C445,446	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C448-451	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C452	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C453	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C456	nsp	C,CERAMIC 33PF-J/50V		D010330167160S		
	C459	nsp	C,CERAMIC 33PF-J/50V		D010330167160S		
	C467	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C470	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
OTHERS PARTS GROUP							
	BKT100	nsp	BRACKET SCREW		4010210196000S		
	CLAMP101	nsp	CLAMP WIRE(SOLDER)		4330000120000S		
	CN13A	nsp	CN.WIRE 120MM/10P		L025121102620S		
	CN13B	nsp	CN.WIRE 120MM/4P.		L025121042620S		
	CN14	nsp	CN.WAFER 23P C125Z2-23		L109012522310S		
	CN100	nsp	CN.WAFER 13P C125Z2-13		L109012521310S		
	CN101	nsp	CN,WAFER 9P C125Z2-09		L109012520910S		
	CN401	nsp	CN,WAFER 9P C125Z2-09		L109012520910S		
	CN402	nsp	CN,WAFER 11P		L109012521110S		
	CN403	nsp	CN.WAFER 13P C125Z2-13		L109012521310S		
	CN802	nsp	CN,WAFER 15P C125Z2-15		L109012521510S		
	CP3	nsp	CN,WAFER 13P C125Z1-13		L109012511310S		
	CP5	nsp	CN,WAFER 19P C125Z1-19		L109012511910S		
	CP7	nsp	CN,WAFER 15P C125Z1-15		L109012511510S		
	CP8	nsp	CN,WAFER 19P C125Z1-19		L109012511910S		
	CP9,10	nsp	CN,WAFER 13P C125Z1-13		L109012511310S		
	CP11	nsp	CN.WAFER 33P C125Z1-33		L109012513310S		
	CP13A	nsp	CN.WAFER 10P 20010WR-10A00		L101200101020S		
	CP13B	nsp	CN.WAFER 4P 20010WR-04		L101200100420S		
	CP100	nsp	CN,WAFER 13P C125Z1-13		L109012511310S		
	CP101	nsp	CN.WAFER 9P C125Z1-09		L109012510910S		
	CP102	nsp	CN.WAFER 4P 5267-04A		L102526700400S		
	CP104	nsp	CN.WAFER 3P 5267-03A		L102526700300S		
	CP112,113	nsp	CN,WAFER 19P C125Z1-19		L109012511910S		
	CP114	nsp	CN,WAFER 21P C125Z1-21		L109012512110S		
	CP115	nsp	CN,WAFER 17P C125Z1-17		L109012511710S		
	CP401	nsp	CN.WAFER 9P C125Z1-09		L109012510910S		
	CP402	nsp	CN,WAFER 11P		L109012511110S		
	CP403	nsp	CN,WAFER 13P C125Z1-13		L109012511310S		
	⚠ F104	963652500120S	FUSE T1.25A/250V	N1B,NSG,K1B	N751501251160S		
	⚠ F105,106	963652010500S	FUSE T1.6A/250V		N751501601160S		
	F104A	nsp	HOLDER,FUSE CLIP	N1B,N1SG,K1B	G645000050010S		
	F104B	nsp	HOLDER,FUSE CLIP	N1B,N1SG,K1B	G645000050010S		
	F105A	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F105B	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F106A	nsp	HOLDER,FUSE CLIP		G645000050010S		
	F106B	nsp	HOLDER,FUSE CLIP		G645000050010S		
	JACK401	963643012080M	JACK,DIN DIN-901B(MXJACK)		G403901B0000YS		
	JACK403	963646012090S	TER RCA 2PIN RCA-206B-02(OR,OR)		G601206B0200YS		
	JACK404	00D2051305008	CN.WAFER 9P		L103090090030S		

PCB FRONT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC100	00D2631289900	IC AZ4580M		J121458000020S		
	IC101	nsp	IC PQ070XZ01ZPH		J126070010010S		
	IC102	00D2631289900	IC AZ4580M		J121458000020S		
	Q1	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
	Q4,5	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
	Q102	00D9630226705	TR KTC1027Y		J5021027Y0020S		
	Q110	943215500030S	TR 2SA RT1P441C		CVTRT1P441C		
	Q111,112	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
	D11-13	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D100,101	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D102,103	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D111-114	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D115,116	963209003510S	D,ESD CDS3C05HDMI1		K067030500010S		
	D117	963209500020S	D,ESD CDS3C15GTA		K067031500010S		
	D118,119	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	ZD100	00D9600095500	D,ZENER MTZJ5.1B		K06005R144520S		
	ZD102	00D9630046202	D,ZENER MTZJ18B		K06018R044520S		
	ZD103	nsp	ZENER DIODE MTZJ24B-0.5W/5MA-52MM		K06024R044520S		
	ZD104,105	00D9600095500	D,ZENER MTZJ5.1B		K06005R144520S		
	LED5,6	963263012110S	LED BL-BUF4V5K-1-AV-FP3.5 3PI RED		K500032000160S		
	LED103	963263100510S	LED WEJ3290W-R2H0-BA 3PI RED/ YELLOW GREEN		K500032451010S		
RESISTORS GROUP							
	R127	00D9639006272	R,FIXED RSD-R1-1WJ-4.7		N113135647920S		
CAPACITORS GROUP							
	C1	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C3,4	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C5	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C6-8	nsp	C,CERAMIC 100PF-J/50V		D010101167160S		
	C9	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C10	nsp	C,CERAMIC0.01UF-K/50V		D011103777160S		
	C12-14	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C100	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C103	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
	C104	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
	C105	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C106	nsp	C,CERAMIC 100PF-J/50V		D010101167160S		
	C107	nsp	C,CERAMIC COG82PF-J/50V		D010820167160S		
	C108	nsp	C,FILM 0.047UF-J/100V		D02047306C060S		
	C109	nsp	C,FILM 0.1UF-J/100V		D02010406C060S		
	C110	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
	C114	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C115	nsp	C,CERAMIC0.047UF-K/25V		D011473774161S		
	C116-119	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C120	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C121	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C122	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C123	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
	C124	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C125	nsp	C,FILM 0.1UF-K/250V		D02010407H080S		
	C126	nsp	C,ELECT 470UF-M/63V		D040471088010S		
	C127	nsp	C,CERAMIC0.047UF-K/25V		D011473774161S		
	C129	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
	C130	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C131	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C132	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
	C133	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
	C134	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
	C135	nsp	C,FILM 0.1UF-K/250V		D02010407H080S		
	C148,149	nsp	C,CERAMIC0.01UF-K/50V		D011103777160S		
	C153	nsp	C,FILM ST-0.01UF-J/100V		D02010306C060S		
	C154	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C155	nsp	C,FILM ST-0.01UF-J/100V		D02010306C060S		
	C156,157	nsp	C,CERAMIC 1000PF-K/50V		D011102777160S		
	C158	nsp	C,CERAMIC0.01UF-K/50V		D011103777160S		
	C159	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
	C160	nsp	C,CERAMIC0.01UF-K/50V		D011103777160S		
	C161	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
	C163	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
	C164	nsp	C,ELECT 220UF-M/6.3V		D040221081070S		
	C166	00D9630293709	C,ELECT 100UF-M/10V		D040101082070S		
	C172	nsp	C,CERAMIC 0.001UF-J/50V		D010102167160S		
	C177	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C178	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
OTHERS PARTS GROUP							
	BD100-104	nsp	R,CHIP 0-J, 1/16W		C20000006M160S		
	BD105	nsp	COIL,BEAD CBW160808U121T		D340160811210S		
	BD107,108	nsp	R,CHIP 0-J, 1/16W		C20000006M160S		
	BD110	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S		
	BD111,112	nsp	R,CHIP 0-J, 1/16W		C20000006M160S		
	CLAMP111	nsp	CLAMP WIRE(SOLDER)		4330000120000S		
	CLAMP113-116	nsp	CLAMP WIRE(SOLDER)		4330000120000S		
	CN100	nsp	CN.WAFER 5P TUC-P05X		L101100030510S		
	CN101	nsp	CN.FPC 1.0MM 1.0-11S-40PW 40P		L130100114050S		
	CN102	nsp	CN.WIRE 570MM/5P		L025571052820S		
	CP100	nsp	CN.WAFER 5P TUC-P05P		L101100040510S		
	CP102	nsp	CN.WAFER 5268-07A 7P		L102526800700S		
	⚠ F101	963652500020S	FUSE 6125FF500-R 500mA		G657612505030S		
	G101	nsp	RING,TER WIRE 130MM/1P		8410131012240S		
	JACK100	963643101150S	JACK,D3.5 JALCO(YKB21-5442V)		G401KB215442VS		*
	JACK102	963643101160S	TER,RCA 3PIN RCA-328H-1-03 (BK,BK,BK)		G606328H0300YS		*
	JK100	963643101120S	JACK,D6.5 PHONE (YUQIU) D6.5 9P		G402PJ612AN1YS		
	JK101	963643101180S	CN.PLUG CONTACT USB A DIP4P		G480045040290S		*
	RMC101	963262012130S	MODULE,REMOCON R34ES9A		E940349003610S		
	SW100-108	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	SW117	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	VEC100	963667012360S	SW,ENCODER EC16B24T01D4ZZZ		G121162400060S		
	VEC101	00D9630387408	SW,ENCODER EC16B24SO		G121162400070S		
	BK1	nsp	BRACKET USB		4010215216000S		
	FLT1	172010008005S	DISPLAY,FLT GP1261AI		K530126100010S		
	HOLDER1	nsp	HOLDER FLT		4320211106000S		

PCB AUDIO_VIDEO ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC801	963239000650S	IC R2A15218FP		J084152180010S		
	IC806	963233100020S	IC TC4052BFT		J040405205510S		
	IC821	232810005504S	IC BD7628F-E2		J127762800010S		
	IC822	00D2623445901	IC TC4051BFT		J040405105510S		
	IC823	232810005504S	IC BD7628F-E2		J127762800010S		
	IC825	963239003470S	IC NJM2586AM		J171258600010S		
	IC826	963233100020S	IC TC4052BFT		J040405205510S		
	Q815	943214500030S	TR 2SC INC2001AC1		CVTINC2001AC1		
	Q816,817	943215500020S	TR 2SA RT1P141C		CVTRT1P141C		
	Q819	943214500030S	TR 2SC INC2001AC1		CVTINC2001AC1		
	Q821	943214500030S	TR 2SC INC2001AC1		CVTINC2001AC1		
	Q822,823	943215500020S	TR 2SA RT1P141C		CVTRT1P141C		
	Q832	943215500020S	TR 2SA RT1P141C		CVTRT1P141C		
	Q833	943214500030S	TR 2SC INC2001AC1		CVTINC2001AC1		
	Q835,836	943215500020S	TR 2SA RT1P141C		CVTRT1P141C		
	Q837	943214500030S	TR 2SC INC2001AC1		CVTINC2001AC1		
	Q841-844	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
	Q846	943215500020S	TR 2SA RT1P141C		CVTRT1P141C		
	Q847	943214500030S	TR 2SC INC2001AC1		CVTINC2001AC1		
	Q855	963212500030S	TR 2SA ISA1530AC1		J520015301210S		
	Q856-858	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
	Q859	963212500030S	TR 2SA ISA1530AC1		J520015301210S		
	Q860	963216500060S	TR 2SC RT1N144C		J522101441210S		
	D800,801	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D828,829	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D841	00D9630328409	D,SWITCHING 1N4007		K000400700010S		
	D848-851	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	ZD800	00D2760760905	D,ZENER MTZJ3.6B-0.5W/5MA		K06003R644520S		
CAPACITORS GROUP							
	C800-807	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C808	00D9630333203	C,ELECT 100UF-M/16V		D040101083090S		
	C809,810	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C811	00D9630333203	C,ELECT 100UF-M/16V		D040101083090S		
	C812,813	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C826	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C828	nsp	C,ELECT 47UF-M/16V		D040470083080S		
	C829	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C830	nsp	C,ELECT 47UF-M/16V		D040470083080S		
	C832	nsp	C,ELECT 47UF-M/16V		D040470083080S		
	C834	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C835,836	nsp	C,ELECT 47UF-M/16V		D040470083080S		
	C837	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C838,839	nsp	C,ELECT 47UF-M/16V		D040470083080S		
	C840	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C842	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C844,845	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C846	nsp	C,ELECT 47UF-M/16V		D040470083080S		
	C847	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C850,851	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
	C852,853	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
	C854	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C855	nsp	C,CERAMIC 100PF-J/50V		D010101167160S		
	C856	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C857	nsp	C,CERAMIC 100PF-J/50V		D010101167160S		
	C858	00D9630244606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
	C859,860	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
	C861	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
	C862-864	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
	C865	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		

Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
C866	00D9630244606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
C867	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
C868,869	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
C870	nsp	C,CERAMIC 100PF-J/50V		D010101167160S		
C871	00D9630244606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
C892	nsp	C,CERAMIC 100PF-J/50V		D010101167160S		
C893	00D9630244606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
C894,895	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
C896	nsp	C,CERAMIC 330PF-J/50V		D010331167160S		
C897-899	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
C918	nsp	C,CERAMIC 100PF-J/50V	U1B	D010101167160S		
C919	nsp	C,CERAMIC 33PF-J/50V	N1B,N1SG,K1B	D010330167160S		
C921	nsp	C,CERAMIC 100PF-J/50V	N1B,N1SG	D010101167160S		
C925	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
C926	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
C927	nsp	C,ELECT 47UF-M/16V		D040470083080S		
C928	00D9630234205	C,ELECT 10UF-M/50V		D040100087070S		
C929	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
C930,931	nsp	C,CERAMIC 100PF-J/50V	U1B	D010101167160S		
C932	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
C933	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
C935	nsp	C,CERAMIC 100PF-J/50V	N1B,N1SG,K1B	D010101167160S		
C936	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
C937	nsp	C,CERAMIC 100PF-J/50V	N1B,N1SG	D010101167160S		
C938	nsp	C,CERAMIC 0.1UF-K/50V	U1B	D011104577160S		
C939,940	nsp	C,CERAMIC 100PF-J/50V	U1B	D010101167160S		
C941	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
C943	nsp	C,CERAMIC 100PF-J/50V	N1B,N1SG,K1B	D010101167160S		
C944	00D9630293709	C,ELECT 100UF-M/10V		D040101082070S		
C945	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
C946	nsp	C,ELECT 47UF-M/16V		D040470083080S		
C947	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
C948,949	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
C950	nsp	C,ELECT 47UF-M/16V		D040470083080S		
C951	00D9630224503	C,ELECT 22UF-M/50V		D040220087060S		
C952	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
C953	nsp	C,CERAMIC 100PF-J/50V	N1B,N1SG,K1B	D010101167160S		
C956-958	nsp	C,CERAMIC 68PF-J/50V		D010680167160S		
C959	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
C960	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
C971	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
C974,975	00D9630293709	C,ELECT 100UF-M/10V		D040101082070S		
C999,1000	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
C1002-1005	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
C1006,1007	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
C1008	00D9630293709	C,ELECT 100UF-M/10V		D040101082070S		
C1009-1011	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
C1012	nsp	C,CERAMIC 0.1UF-K/50V		D011104577160S		
C1013	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
C1014	00D9630293602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
C1015-1017	nsp	C,CERAMIC 68PF-J/50V		D010680167160S		
C1018	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
C1019	nsp	C,CERAMIC 220PF-J/50V		D010221167160S		
C1020	nsp	C,CERAMIC 0.01UF-K/50V		D010103777160S		
C1021	nsp	C,ELECT 47UF-M/16V		D040470083080S		
C1022	nsp	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
C1117,1118	nsp	C,FILM 0.0047UF	N1B,N1SG	D02047206C060S		
C1119,1120	nsp	C,FILM 0.0082UF	N1B,N1SG	D02082206C060S		
OTHERS PARTS GROUP						
BD803	nsp	COIL,BEAD CBW160808U121T		D340160811210S		
CN12	nsp	CN.FPC 19P TWG-P19P-A1		L131019000010S		
CN112,113	nsp	CN.WAFER 19P C125Z2-19		L109012521910S		
CN114	nsp	CN.WAFER 21P C125Z2-21		L109012522110S		
CN115	nsp	CN.WAFER 17P C125Z2-17		L109012521710S		

Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
CN401	nsp	CN.WIRE 290MM/13P		L025291132620S		
CP14	nsp	CN.WAFER 23P C125Z1-23		L109012512310S		
CP802	nsp	CN,WAFER 15P C125Z1-15		L109012511510S		
CP805	963183011320S	TUNER,FM/AM KST-MT104MV1-2	N1B,N1SG	E903104100110S		
CP805	963183011300S	TUNER,FM/AM KST-MT004MV1-2	K1B	E903004100110S		
JK100,101	963643010330S	TER,RCA 6PIN		G603615A0700YS		
JK102	963643101190S	TER,RCA 4PIN		G602405B0054YS		*
JK104	963643010350S	TER,RCA 3PIN		G606305B1400YS		
JK105	963643005090S	TERMINAL RCA 1PIN		G600107AY000YS		
JK106-108	963643010340S	TER,RCA 3PIN		G606305B0200YS		
L1000,1001	nsp	FILTER,LC MPX	N1B,N1SG	E401010020020S		
PACK806	963183012380S	TUNER,FM/AM KST-MW004MV1-S63SV	U1B	E903004100031S		

PCB HDMI ASS'Y

NOTE: When replacing the SR5006/N1B(N1SG),K1B IC18 or IC41, use the SR5006/U1B IC18(963248100110S) or IC41(963243100070S).

When replacing the SR5006/K1B IC11, use the SR5006/N1B IC11(963248100960S).

When the following are replaced, always rewrite with updated firmware using DFW.

(Refer to "PROCEDURE FOR UPGRADING THE VERSION OF THE FIRMWARE" (47 page).)

- PCB HDMI ASSY
- IC11 (MX25L3206EM2I-12G/MX25L6406EM2I-12G)
- IC18 (H27U1G8F2BTR)
- IC22 (EPM3032A-TC44)
- IC41 (R5F64169DFDFP)
- U7 (EN29LV160BB-70TIP)

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP					
IC1	nsp	IC EX3AV	NOTE : When update Firmware, please confirm a last version in SDI. Use the service board after updating it.	J048030030010S	
IC2	231310009508S	IC PQ033DNA1ZPH		J126033010010S	
IC3	234810015507S	IC BU4248F		J126424800010S	
IC4-7	nsp	IC EX3AV		J048030030010S	
IC9	943236012460S	IC ADV7623		CVIADV7623BSTZ	
IC11	963248100800S	IC,MEMORY FLASH (MX25L3206EM2I-12G)	U1B	8952500600030	*
IC11	963248100960S	IC MEMORY FLASH (MX25L6406EM2I-12G)	N1B,N1SG	8952500600050	*
IC11	nsp	IC MEMORY FLASH (MX25L6406EM2I-12G)	K1B	-	
NOTE : When replacing the SR5006/K1B parts, use the SR5006/N1B(N1SG) parts. After replacing the parts, overwrite the firmware with the newest SR5006/K1B version firmware.					
IC12	963239010410S	IC ADV7511BSTZ-225		J040751100010S	
IC13	nsp	IC MFI341S2164		J044341216410S	
IC14	nsp	IC LAN8700-AEZG-TR		J127870010010S	
IC15	00D2623711004	IC LOGIC SAA7121H		J045712100010S	
IC16	246810063608S	IC MEMORY-RAM (W9825G6JH-6)		J001982566010S	
IC17	nsp	IC ANALOG DM860		J080860005510S	
IC18	963248100810S	IC MEMORY FLASH (H27U1G8F2BTR)	U1B	8952500600040	*
IC18	nsp	IC MEMORY FLASH (H27U1G8F2BTR)	N1B,N1SG,K1B	-	
NOTE : When replacing the SR5006/N1B(N1SG) or K1B parts, use the SR5006/U1B parts. After replacing the parts, overwrite the firmware with the newest SR5006/N1B(N1SG) or K1B version firmware.					
IC19	236810062608S	IC LC89058W-E		J046890580020S	
IC20	963239002150S	IC SN74LVC244APWR		J040742440230S	
IC21	236810062608S	IC LC89058W-E		J046890580020S	
IC22	943236100020S	IC EPM3032A-TC44		CVIANAM1570AV	
IC24	00D2623077900	IC TC74VHCU04FT		J040740405580S	
IC25,26	00D9630237503	MODULE JSR1165-C		E100116500040S	
IC28	00D2631289900	IC AZ4580M		J121458000020S	
IC29	236810073509S	IC AK4358VQ-L		J042435800010S	
IC30	236810086505S	IC AK5358BET-E2		J043535805520S	
IC31,32	00D2631289900	IC AZ4580M		J121458000020S	
IC33	236810070500S	IC AK4424ET-E2 TSSOP16		J042442405520S	
IC34	00D2631289900	IC AZ4580M		J121458000020S	
IC35,36	234810014504S	IC MC14094BDTR2G		J040140940020S	
IC37	00D2623437906	IC TC74VHCT244AFT		J040742445540S	
IC39	00D2623444902	IC TC74VHC08FT		J040740800280S	
IC40	246810026500S	IC R1EX24256ASAS0A		J000242565550S	
IC41	963243100700S	IC,CPU MICRO PROCESS (R5F56108VNFP)	U1B	8952500600010	*
IC41	nsp	IC,CPU MICRO PROCESS (R5F56108VNFP)	N1B,N1SG,K1B	-	
NOTE : When replacing the SR5006/N1B(N1SG) or K1B parts, use the SR5006/U1B parts. After replacing the parts, overwrite the firmware with the newest SR5006/N1B(N1SG) or K1B version firmware.					
IC42	963262012150M	MODULE REMOCON R94EV1A		E940941003610S	

Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
U1	236810057606S	IC LOGIC ADV3002BSTZ		J040300205510S		
U2	234810018506S	IC LOGIC TC74VHC4052AFT		J040744052080S		
U4	nsp	IC LOGIC ADV7844 HDMI		J040784405510S		
U5	nsp	CN. FPC 1.0MM 1.0-16-10PB-2 10P		L130100161030S		
U6	943246012690S	IC MEMORY-RAM(W9864G6JH-6)		CVIW9864G6JH-6		
U7	963248100820S	IC MEMORY FLASH (EN29LV160BB70TIP)		8952500600020		*
U8	nsp	IC ANALOG ADSP21487KSWZ-3B3020	NOTE : When update Firmware, please confirm a last version in SDI. Use the service board after updating it.	J080214875530S		*
Q1	943214500020S	TR 2SC 2SC3052		CVT2SC3052		
Q3	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
Q4	943216500050S	TR 2SC RT1N441C		CVTRT1N441C		
Q5	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
Q6,7	943216500050S	TR 2SC RT1N441C		CVTRT1N441C		
Q8	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
Q9	943216500050S	TR 2SC RT1N441C		CVTRT1N441C		
Q10	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
Q11-13	943216500050S	TR 2SC RT1N441C		CVTRT1N441C		
Q14	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
Q15	943216500050S	TR 2SC RT1N441C		CVTRT1N441C		
Q16	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
Q17-19	943216500050S	TR 2SC RT1N441C		CVTRT1N441C		
Q20	00D275011090S	SEMI HN1K02FU		J543102000020S		
Q22	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
Q24	963219004200S	CHIP FDC608PZ P-CH		J543608000010S		
Q25	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
Q26	943215500020S	TR 2SA RT1P141C		CVTRT1P141C		
Q27	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
Q29	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
Q30	943215500020S	TR 2SA RT1P141C		CVTRT1P141C		
Q31-39	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
Q40-43	943215500030S	TR 2SA RT1P441C		CVTRT1P441C		
Q44	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
TR1	943216500050S	TR 2SC RT1N441C		CVTRT1N441C		
TR2	963219004200S	CHIP FDC608PZ P-CH		J543608000010S		
TR3	00D2710326904	TR 2SA 2SA1954		J520195405510S		
TR4	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
TR5	00D2710326904	TR 2SA 2SA1954		J520195405510S		
TR6	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
TR7	943216500050S	TR 2SC RT1N441C		CVTRT1N441C		
TR8	963219004200S	CHIP FDC608PZ P-CH		J543608000010S		
TR9	00D2710326904	TR 2SA 2SA1954		J520195405510S		
TR10	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
TR11	943216500050S	TR 2SC RT1N441C		CVTRT1N441C		
TR12	963219004200S	CHIP FDC608PZ P-CH		J543608000010S		
TR14	943216500050S	TR 2SC RT1N441C		CVTRT1N441C		
TR15	963219004200S	CHIP FDC608PZ P-CH		J543608000010S		
TR16	00D2710326904	TR 2SA 2SA1954		J520195405510S		
TR17	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
TR18	00D2710326904	TR 2SA 2SA1954		J520195405510S		
TR19	943216500020S	TR 2SC RT1N141C		CVTRT1N141C		
TR20	943216500050S	TR 2SC RT1N441C		CVTRT1N441C		
TR21	963219004200S	CHIP FDC608PZ P-CH		J543608000010S		
TR22-28	943214500020S	TR 2SC 2SC3052		CVT2SC3052		
TR29,30	963212500030S	TR 2SA ISA1530AC1		J520015301210S		
TR31	963219002180S	TR 2SD2114KT146W		J5232114K0010S		
TR32	943214500020S	TR 2SC 2SC3052		CVT2SC3052		
TR33	943214500020S	TR 2SC 2SC3052		CVT2SC3052		
TR37	943215500020S	TR 2SA RT1P141C		CVTRT1P141C		
TR38	00D2710326904	TR 2SA 2SA1954		J520195405510S		
TR39	943216500050S	TR 2SC RT1N441C		CVTRT1N441C		
D1	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
D3	00D9630328603	D,SCHOTTKY RB521S-30		K125521300010S		
D42	00D2760740909	D CHIP KDS184S(B3)		K005018400020S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	D43	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D52	00D9630355401	D,SWITCHING KDS4148U		K005041480030S		
	D901	00D9630328603	D,SCHOTTKY RB521S-30		K125521300010S		
CAPACITORS GROUP							
	C1-3	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
	C6	00D9630325402	C,ELECT 470UF-MVG/6.3V		D050471081200S		
	C8,9	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C12,13	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C14	nsp	C,CERAMIC 10PF-J/50V		D010100167161S		
	C17	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C18,19	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C22-24	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
	C25	nsp	C,CERAMIC 1UF-K/10V		D011105772161S		
	C26	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C27,28	nsp	C,CERAMIC 1UF-K/10V		D011105772161S		
	C29	nsp	C,CERAMIC X7R0.015UF-K/50V		D011153777160S		
	C30,31	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C34	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C37	nsp	C,CERAMIC 15PF-J/50V		D010150167160S		
	C38	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C39-41	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C44	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C45-47	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
	C48	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C49	nsp	C,CERAMIC 15PF-J/50V		D010150167160S		
	C52,53	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C54	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C55	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C58-60	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
	C61,62	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C63	nsp	C,CERAMIC 15PF-J/50V		D010150167160S		
	C66	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C67	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C68	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C71-73	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
	C74	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C125	nsp	C,CERAMIC 15PF-J/50V		D010150167160S		
	C128	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C129	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C130	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C167	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C216	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C225	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C277,278	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C279	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
	C287	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C288	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
	C289-292	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C293	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C294	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C295	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C296	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C297	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C298	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C299	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C300	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C301	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C302	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C303	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C304	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C305	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C306	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
	C307	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
	C308-310	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
	C311	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		

Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
C312	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C313	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C314	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C315	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
C317	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C318	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C319	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C320	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C321	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C322	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C323	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C324	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C325	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C326	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C327	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
C330,331	nsp	C,CERAMIC 1UF-K/10V		D011105772161S		
C332,333	nsp	C,CERAMIC 15PF-J/50V		D011150167101S		
C334	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C335	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C336	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C337	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C338	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C339	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
C340	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C341	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C342	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C343	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C344	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C345	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C346	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C347	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C348	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C349	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C350,351	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
C352	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C353,354	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C355	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C356	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
C358	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C359	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C360	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C361	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C362	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
C365	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C366,367	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C368	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C369	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C370	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C371	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C372	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C373	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C374	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C375	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C376	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C377	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C378	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C379	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C380	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C381	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C382	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C383	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C384	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C385	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C386	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C387	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C388	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C389	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		

Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
C390	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C391	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C392	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C393	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C394	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C395	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C396	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C397-399	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
C400	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C401	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C402	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C403	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C404	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C405	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C406	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C407	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C408	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C409	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C410	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C411	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C412	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C413	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C414	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C415	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C416	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C417	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C418	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C419	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C420	nsp	C,CERAMIC 1UF-K/10V		D011105772101S		
C421	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C422-426	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C427	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C428-430	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C431	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C434	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C435	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C436	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C437	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C438	nsp	C,CERAMIC 1UF-K/10V		D011105772101S		
C439	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C440	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C441	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C442	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C443	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C444	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C445	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C446	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C447	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C448	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C449	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C450	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C451	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C452	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C453	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C454	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C455	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C456	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C457	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C458	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C459	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
C460	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C461	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C462	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C463	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C464	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C465	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C466	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		

Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
C467	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C468	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C469	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C470	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C471	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C472	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C473	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C474	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C475	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C476	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C477	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C478	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C479	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C480	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C481	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C482	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C483	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C484	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C485	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C486	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C487	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C488	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C489	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C490	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C491	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C492	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C493	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C494	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C495	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C496	nsp	C,CERAMIC 1UF-K/10V		D011105772101S		
C497	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C498	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
C499	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C500	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C501-503	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C504,505	nsp	C,CERAMIC 15PF-J/50V		D011150167101S		
C506-509	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C510	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C511,512	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C513-515	nsp	R,CHIP 0-J,1/16W		C20000006M101S		
C516	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C519-525	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C526	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
C529-532	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C534	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
C537	nsp	C,CERAMIC 10UF-K/16V		D011106573200S		
C539,540	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C541,542	nsp	C,CERAMIC 1PF-C/50V		D011010107100S		
C543	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C546	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C548,549	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C550-552	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C554	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C555,556	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C557-564	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C565	nsp	C,CERAMIC10PF-J/50V		D011100167101S		
C566,567	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C568	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C571	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C572	nsp	C,CERAMIC10PF-J/50V		D011100167101S		
C573	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C574	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C581	nsp	C,CERAMIC 0.022UF-K/25V		D011223777160S		
C583	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C584	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C585	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C586	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		

Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
C587-593	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C594	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C595	nsp	C,CERAMIC 12PF-J/50V		D011120167101S		
C597	nsp	C,CERAMIC 12PF-J/50V		D011120167101S		
C598,599	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C605	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C616-619	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C620-633	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C635	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C638-641	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C642-654	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C656	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C659	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C662,663	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C664	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C665-671	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C672	nsp	C,CERAMIC 0.022UF-K/25V		D011223174101S		
C673,674	nsp	C,CERAMIC 10PF-D/50V		D011100117101S		
C675	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C676	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C678	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C679-683	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C684	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C685-696	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C697	nsp	C,CERAMIC 0.022UF-K/25V		D011223174101S		
C698-701	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C702	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C703	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C705,706	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C708,709	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C710-735	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C736-785	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C786,787	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C790,791	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C792	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C796,797	nsp	C,CERAMIC 9PF-D/50V		D011090117101S		
C799	00D9630338606	C,ELECT 10UF-MVG/16V		D050100083470S		
C801	nsp	C,CERAMIC0.01UF-K/50V		D011103777160S		
C804,805	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C806-830	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C831	00D9630338606	C,ELECT 10UF-MVG/16V		D050100083470S		
C833	nsp	C,CERAMIC0.01UF-K/50V		D011103777160S		
C834	nsp	C,CERAMIC X7R3900PF-K/50V		D011392777160S		
C835	nsp	C,CERAMIC 680PF-J/50V		D010681167163S		
C837	nsp	C,CERAMIC 680PF-J/50V		D010681167163S		
C838	963134000450S	C,ELECT 100UF-MVG/16V		D050101083660S		
C839	nsp	C,CERAMIC 680PF-J/50V		D010681167163S		
C840	nsp	CHIP RES. 1KJ 1/16W1005REEL		C20001026M101S		
C841	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C843	963134000450S	C,ELECT 100UF-MVG/16V		D050101083660S		
C845	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C846	nsp	C,CERAMIC X7R3900PF-K/50V		D011392777160S		
C847	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C849,850	nsp	C,CERAMIC 1UF-K/10V		D011105772161S		
C851	nsp	C,CERAMIC 680PF-J/50V		D010681167163S		
C853	nsp	C,CERAMIC X7R3900PF-K/50V		D011392777160S		
C854,855	nsp	C,CERAMIC 680PF-J/50V		D010681167163S		
C857	nsp	C,CERAMIC 680PF-J/50V		D010681167163S		
C858	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C859	nsp	C,CERAMIC X7R3900PF-K/50V		D011392777160S		
C862	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C863	963134000450S	C,ELECT 100UF-MVG/16V		D050101083660S		
C864	nsp	C,CERAMIC 680PF-J/50V		D010681167163S		
C865	nsp	C,CERAMIC X7R3900PF-K/50V		D011392777160S		
C866	nsp	C,CERAMIC 1UF-K/10V		D011105772161S		
C867,868	nsp	C,CERAMIC 470PF-J/50V		D010471167163S		
C869	nsp	C,CERAMIC 2200PF-K/50V		D011222777160S		

Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
C870	nsp	C,CERAMIC 470PF-J/50V		D010471167163S		
C871	nsp	C,CERAMIC 2200PF-K/50V		D011222777160S		
C872	nsp	C,CERAMIC X7R3900PF-K/50V		D011392777160S		
C873	nsp	C,CERAMIC 470PF-J/50V		D010471167163S		
C874,875	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C876	nsp	C,CERAMIC 1UF-K/10V		D011105772161S		
C877	nsp	C,CERAMIC X7R3900PF-K/50V		D011392777160S		
C878-880	nsp	C,CERAMIC 680PF-J/50V		D010681167163S		
C881	nsp	C,CERAMIC X7R3900PF-K/50V		D011392777160S		
C882	nsp	C,CERAMIC 680PF-J/50V		D010681167163S		
C883	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C885-887	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C888-892	nsp	C,CERAMIC 0.01UF-K/50V		D011103177101S		
C893	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C896	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C898	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C899	nsp	C,CERAMIC 220PF-K/50V		D011221177101S		
C900-904	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C906-908	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C910,911	nsp	C,CERAMIC 0.1UF-K/50V		D011104177101S		
C915,916	nsp	C,CERAMIC 12PF-J/50V		D011120167101S		
C918	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C921	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C923	nsp	C,CERAMIC 4.7UF-K/6.3V		D011475571160S		
C933-940	nsp	C,CERAMIC 100PF-J/50V		D011101167101S		
C947-973	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C976	nsp	C,CERAMIC 560PF-K/50V		D011561177101S		
C977	nsp	C,CERAMIC 390PF-K/50V		D011391177101S		
C978	nsp	C,CERAMIC 560PF-K/50V		D011561177101S		
C979	nsp	C,CERAMIC 390PF-K/50V		D011391177101S		
C982-987	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C994-1001	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
C1003-1008	nsp	C,CERAMIC 1000PF-K/50V		D011102177101S		
OTHERS PARTS GROUP						
BKT1004	nsp	SHIELD CASE t0.3 A4		3070210646000S		
CB1-3	nsp	COIL,CHIP FLC32C220K		D307322205520S		
CN1	nsp	CN.FPC 7P 1.0-16-7PB-2		L130100160730S		
CN2	nsp	CN.WAFER 33P C125Z2		L109012523310S		
CN3	nsp	CN.WAFER 13P C125Z2-13		L109012521310S		
CN4,5	nsp	CN.WAFER 19P C125Z2-19		L109012521910S		
CN6,7	nsp	CN.WAFER 13P C125Z2-13		L109012521310S		
CN8	nsp	CN.WAFER 5P 20010-05		L101200100510S		
CP1	nsp	CN.WAFER 5P 20010-05		L101200100510S		
CP2	963643100130S	JACK,MODULAR RJ45		G4060RJ450120S		
CP3	nsp	CN.FPC 7P 1.0-16-7PB-2		L130100160730S		
CP4	nsp	CN.FPC 6P 1.0-16-6PB-2		L130100160630S		
CP6	nsp	CN. FPC 1.0MM 1.01611PB2 11P		L130100161130S		
CX1	nsp	CN.WAFER 5P SMW250-5P		L102050010040S		
CX2	nsp	CN.FPC 7P 1.0-16-7PB-2		L130100160730S		
CX3	nsp	CN.FPC 7P 1.0-16-7PB-2		L130100160730S		
CX4	nsp	CN.FPC 40P 10022HS-40C		L130100220400S		
F1	00D2790055907	SW,POLY MICROSM175F		G300017500010S		
FB1-5	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S		
FB6,7	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S		
FB8	nsp	COIL,BEAD CBW160808U121T		D340160811210S		
FB9	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S		
FB11,12	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S		
FB10	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S		
FB13,14	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	FB15,16	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S		
	FB17,18	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S		
	FB19,20	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S		
	FB21,22	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S		
	FB23,24	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S		
	FB29-36	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S		
	FB37-44	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S		
	FB45-80	nsp	R,CHIP 0-J, 1/16W		C20000006M160S		
	FB81-84	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S		
	FB85-103	nsp	R,CHIP 0-J, 1/16W		C20000006M160S		
	FB105-145	nsp	R,CHIP 0-J, 1/16W		C20000006M160S		
	JACK1-7	963643100120S	HDMI CONNECTOR 19P		L109100190160S		
	JACK9	00D9630244703	JACK,D3.5 EARPHONE		G40130802000YS		
	JK1	963646012340S	TER,RCA 2PIN 206A-07		G601206A0700YS		
	L3-8	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S		
	L12	nsp	R,CHIP THICK 0-J,1/10W		C200000060200S		
	L14	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S		
	L15	nsp	COIL,BEAD CBW160808U121T		D340160811210S		
	L16	nsp	COIL,CHIP SDCW2012H-2-900TF		D311201239000S		
	L17,18	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S		
	L19	nsp	COIL,CHIP SDCW2012H-2-900TF		D311201239000S		
	L20-24	nsp	COIL,BEAD BLM21PG221SN1		D340201212210S		
	L27,28	nsp	R,CHIP 0-J, 1/16W		C20000006M160S		
	X1	141810044504S	CRYSTAL CHIP FCX-04(28.63636MHz)		E80528R636380S		
	X2	963141010990S	CRYSTAL CHIP FCX-04(24MHz)		E80524R000080S		
	X3	141810046500S	CRYSTAL CHIP FCX-04(24.576MHz)		E80524R576080S		
	X4	943141100020S	CRYSTAL CHIP FCX-04(21.875MHz)		COX21875I070SR		
	X5	00D3991038900	CRYSTAL CHIP FCX-03(12MHz)		E805120000020S		
	XTAL1	141810044504S	CRYSTAL CHIP FCX-04(28.63636MHz)		E80528R636380S		
	LD1	90M-HI200030R	LED,IR SIR-34ST3F 3PI 2.5MM		K505343000010S		