

DENON

Ver. 5

Please refer to the
MODIFICATION NOTICE.

SERVICE MANUAL

MODEL	JP	EU	EC	E2	E3	E2A	E1C	EUT
AVR-3310CI		✓	✓					
AVR-3310				✓ △2				
AVR-990					✓ △2			

AV SURROUND RECEIVER

MODEL	JP	EU	EC	E2	E3	E2A	E1C	EUT
AVC-3310							✓ △2	

AV SURROUND AMPLIFIER

- For purposes of improvement, specifications and design are subject to change without notice.
- Please use this service manual with referring to the operating instructions without fail.
- Some illustrations using in this service manual are slightly different from the actual set.

DENON

D&M Holdings Inc.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

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

CAUTION Please heed the points listed below during servicing and inspection.

○ Heed the cautions!

Spots requiring particular attention when servicing, such as the cabinet, parts, chassis, etc., have cautions indicated on labels or seals. Be sure to heed these cautions and the cautions indicated in the handling instructions.

○ Caution concerning electric shock!

- (1) An AC voltage is impressed on this set, so touching internal metal parts when the set is energized could cause electric shock. Take care to avoid electric shock, by for example using an isolating transformer and gloves when servicing while the set is energized, unplugging the power cord when replacing parts, etc.
- (2) There are high voltage parts inside. Handle with extra care when the set is energized.

○ Caution concerning disassembly and assembly!

Though great care is taken when manufacturing parts from sheet metal, there may in some rare cases be burrs on the edges of parts which could cause injury if fingers are moved across them. Use gloves to protect your hands.

○ Only use designated parts!

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). For replacement parts, be sure to use parts which have the same properties. In particular, for the important safety parts that are marked \triangle on wiring diagrams and parts lists, be sure to use the designated parts.

○ Be sure to mount parts and arrange the wires as they were originally!

For safety reasons, some parts use tape, 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 inside and clamps are used to keep wires away from heating and high voltage parts, so be sure to set everything back as it was originally.

○ Inspect for safety after servicing!

Check that all screws, parts and wires removed or disconnected for servicing have been put back in their original positions, inspect that no parts around the area that has been serviced have been negatively affected, conduct 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 turn the power switch on. Using a 500V insulation resistance tester, check that the insulation resistance between the terminals of the power plug and the externally exposed metal parts (antenna terminal, headphones terminal, microphone terminal, input terminal, etc.) is $1M\Omega$ or greater. If it is less, the set must be inspected and repaired.

CAUTION Concerning important safety parts

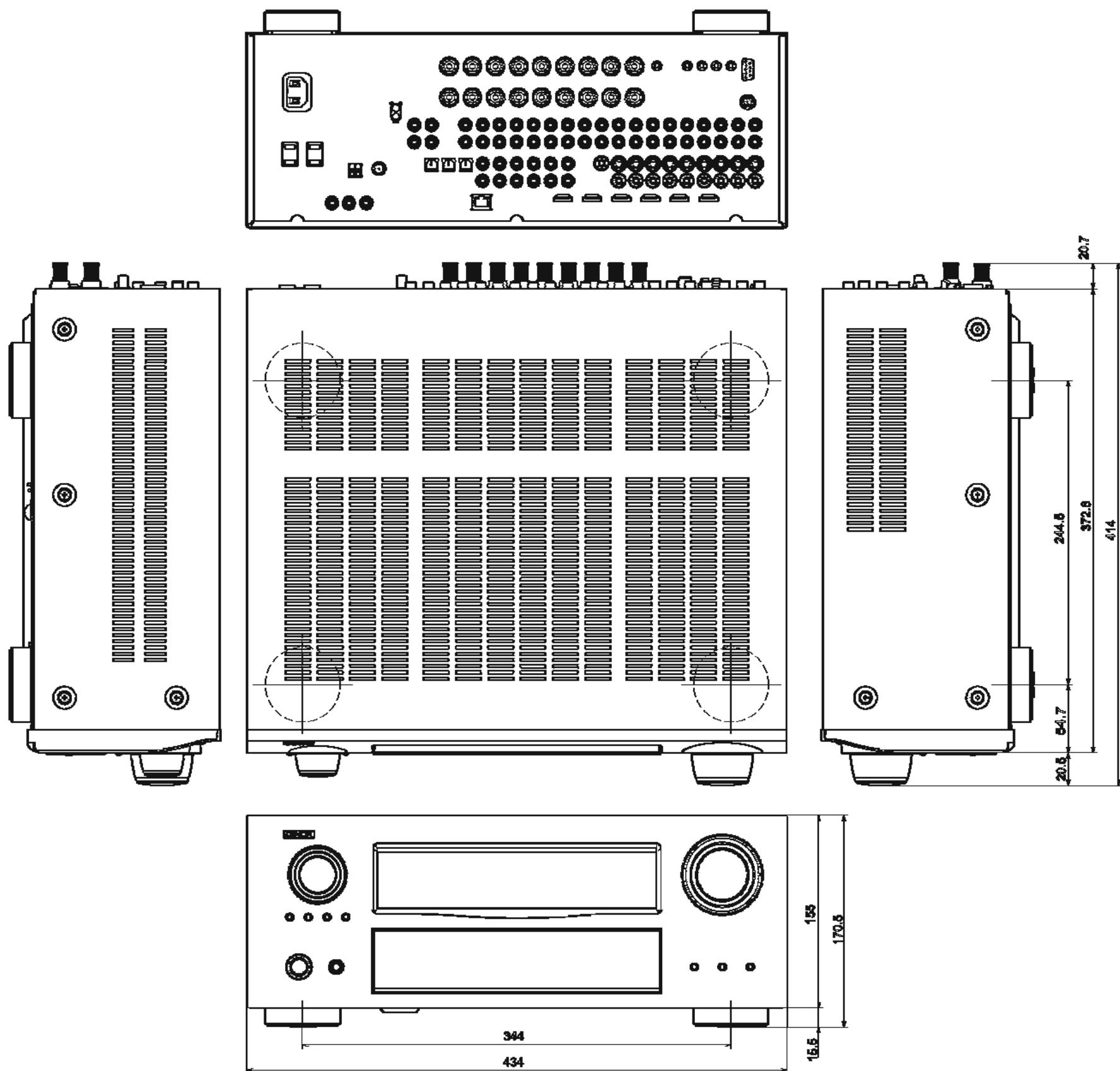
Many of the electric and structural parts used in the set have special safety properties. In most cases these properties are difficult to distinguish by sight, and using replacement parts with higher ratings (rated power and withstand voltage) does not necessarily guarantee that safety performance will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

(1) Schematic diagrams ... Indicated by the \triangle mark.

(2) Parts lists ... Indicated by the \triangle mark.

Using parts other than the designated parts could result in electric shock, fires or other dangerous situations.

DIMENSION
AVR-3310CI/AVR-3310/AVR-990/AVC-3310



WIRE ARRANGEMENT

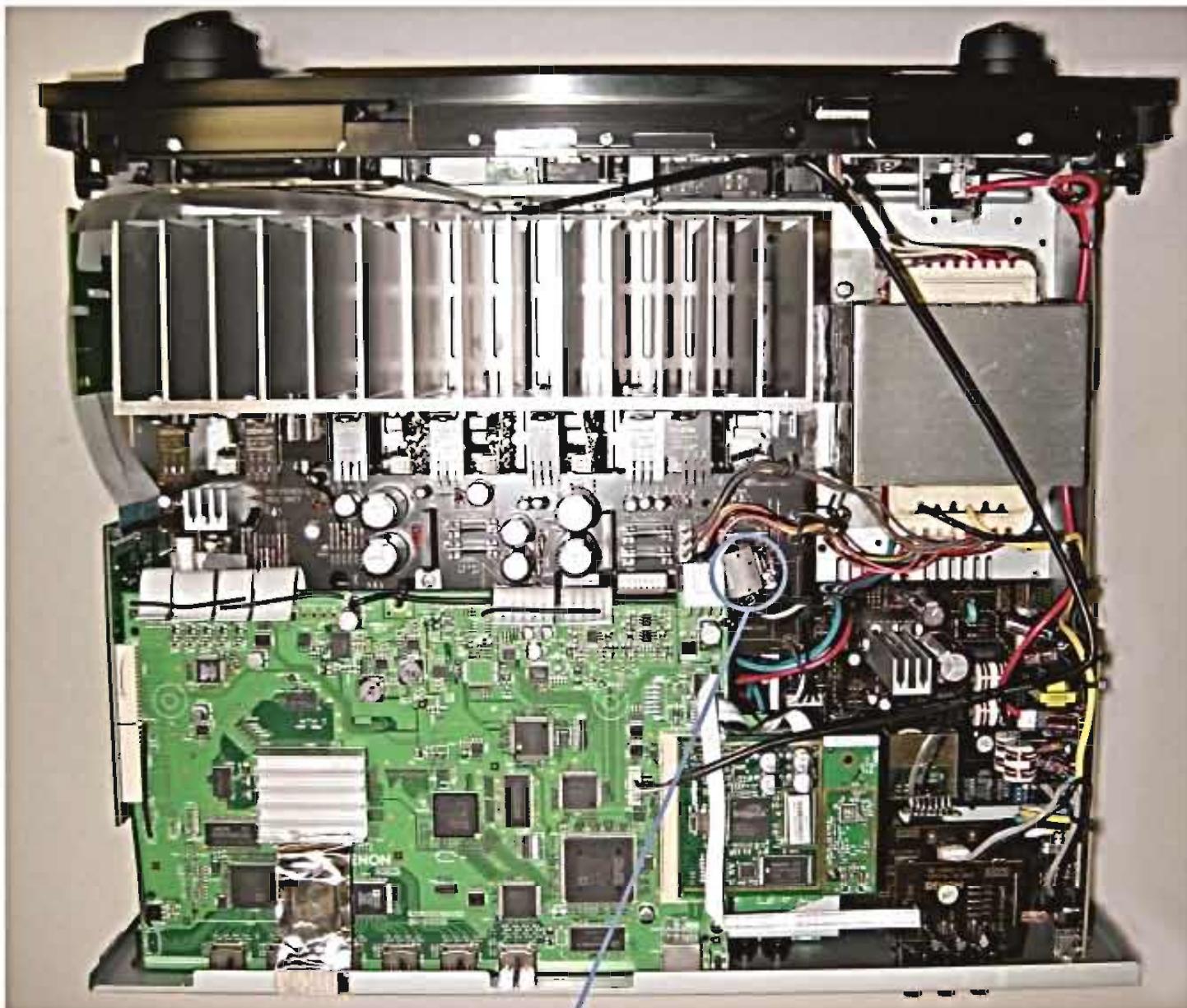
If wire bundles are untied or moved to perform adjustment or parts replacement etc., be sure to rearrange them neatly as they were originally bundled or placed afterward.

Otherwise, incorrect arrangement can be a cause of noise generation.

Wire arrangement viewed from the top

Front Panel side

△ 2 △ 3



Except AVR-3310CI, AVR-990 model

Back Panel side

CAUTION IN SERVICING

Before the Digital P.W.B. are replaced

If you cannot specify the cause of the digital PWB defect, carry out "Initializing" → "Update to latest firmware".

The defect may be cleared.

- See the following for the method of initializing the μ com.

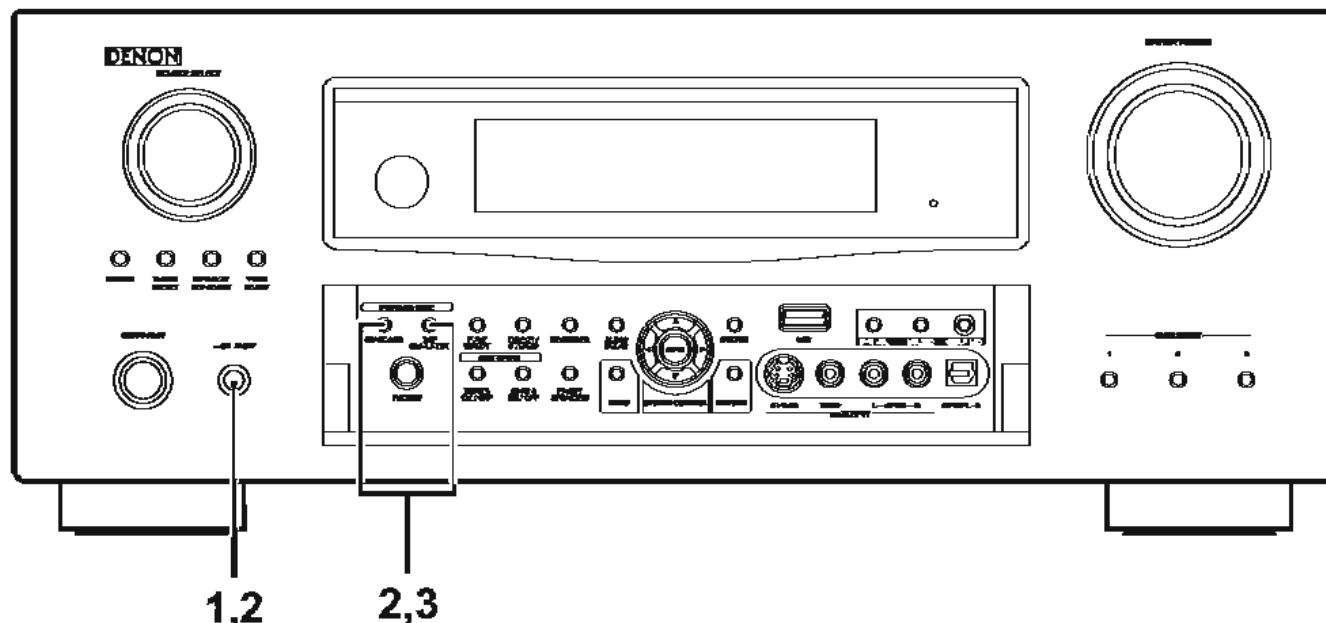
Initializing AV SURROUND RECEIVER

AV SURROUND RECEIVER initialization should be performed when the μ com, peripheral parts of μ com, and Digital P.W.B. are replaced.

1. Switch off the unit.
2. Hold the following STANDARD button and DSP SIMULATION button, and switch on the unit.
3. Check that the entire display is flashing with an interval of about 1 second, and release your fingers from the 2 buttons and the microprocessor will be initialized.

Note: • If step 3 does not work, start over from step 1.

- All user settings will be lost and this factory setting will be recovered when this initialization mode.
So make sure to memorize your setting for restoring after the initialization.



JIG to use for servicing

When you repair the printing board, you can use the following JIG. Please order to Denon Official Service Distributor in your region if necessary.

Extention cable kit

00D SPK- 561 EXTENSION UNIT KIT : 1 Set
00D SPK- 562 TUCP CONN. JOINT KIT : 1 Set

Extention cable for Idling Current

Parts Number for Extension Cables and Quantity of Unit.

Parts Number	Parts Name	Q'ty / unit	Remarks
612050082004D	6P 250mm NH	1	L=250mm 6P NH Cable
612050083007D	8P 250mm NH	1	L=250mm 8P NH Cable

How to use and Adjust Idle Current.

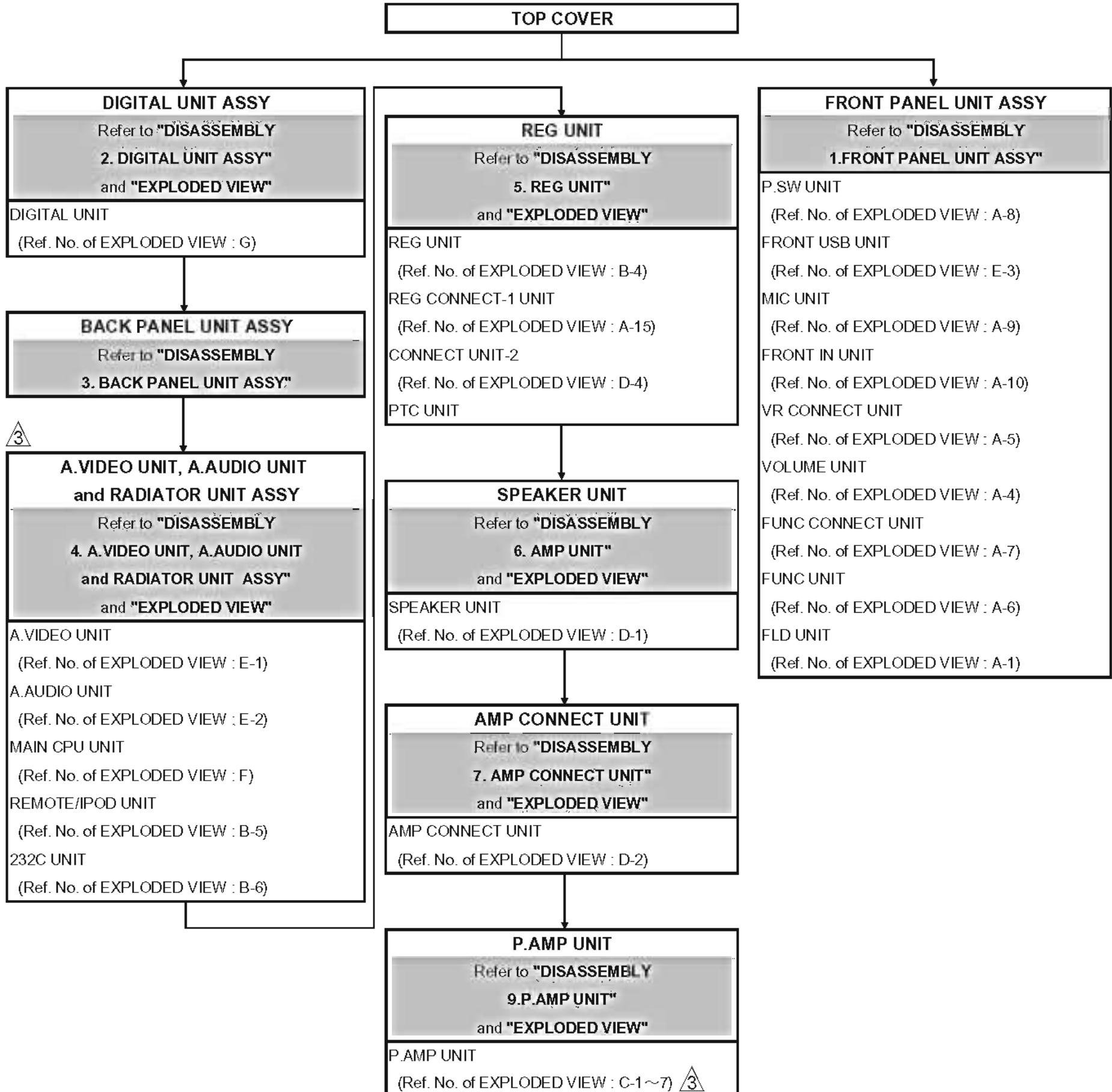
1. The thin and hard plate (ex. Ruler) is fixed with the tape behind the cable.
2. The voltmeter is connected with the other side of the extension cable.
3. Refer to ADJUSTMENT(Idling Current).

DISASSEMBLY

△

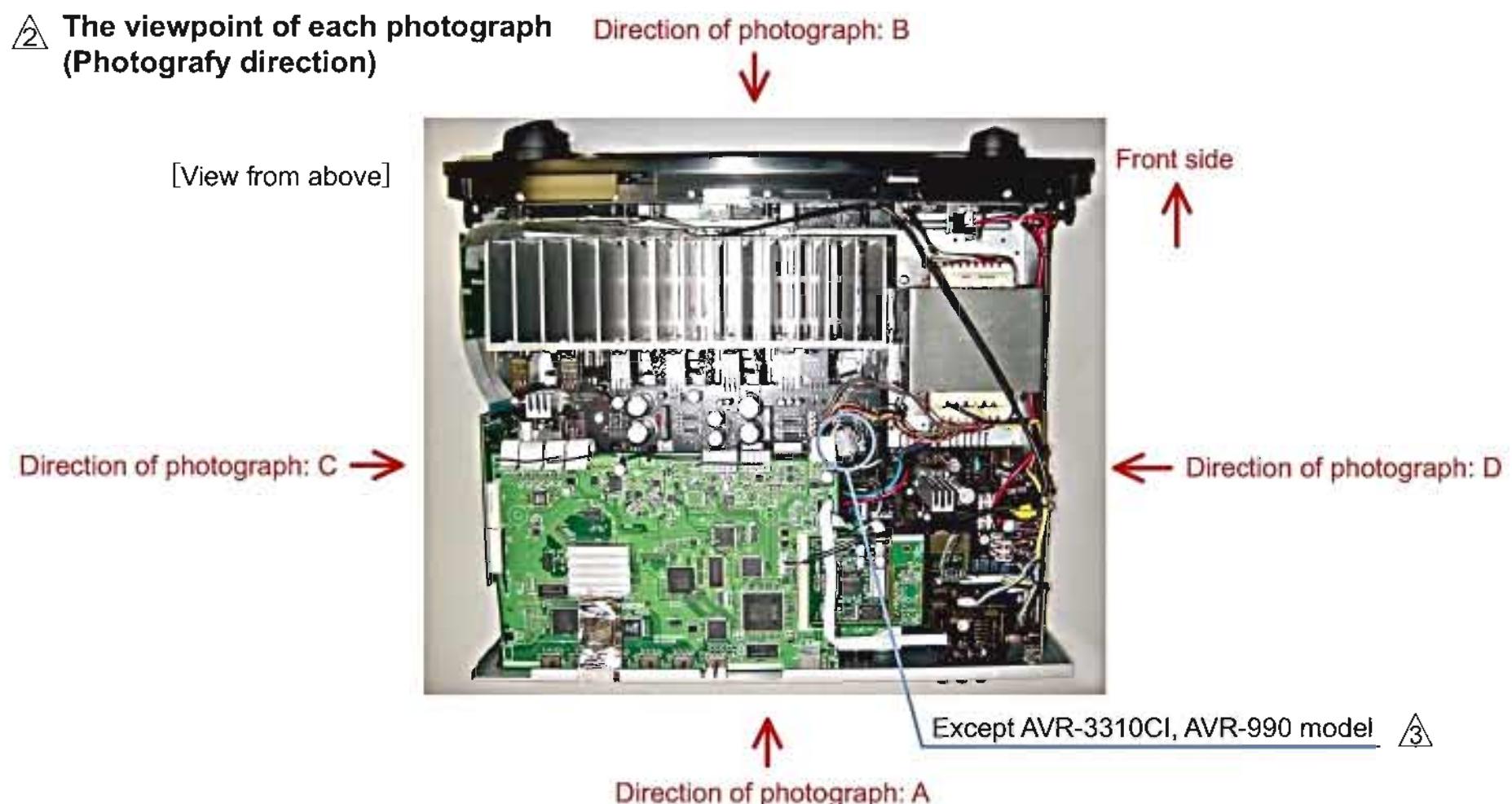
- Disassemble in order of the arrow of the figure of following flow.
- In the case of the re-assembling, assemble it in order of the reverse of the following flow.
- In the case of the re-assembling, observe "attention of assembling" it.

△2



About the photos used for descriptions in the "DISASSEMBLY" section.

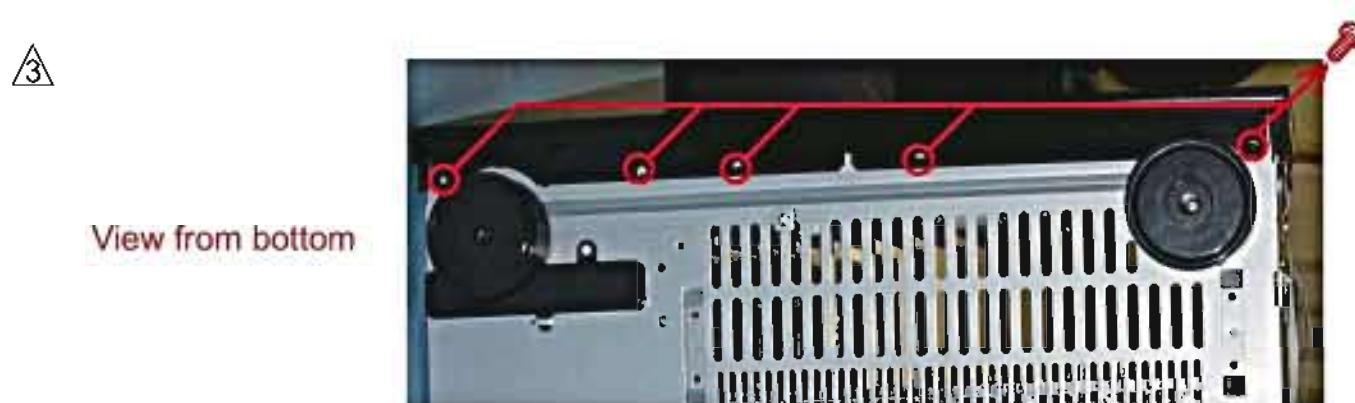
- The direction from which the photographs used herein were photographed is indicated at "Direction of photograph: ***" at the left of the respective photographs.
- Refer to the table below for a description of the direction in which the photos were taken.
- Photographs for which no direction is indicated were taken from above the product.



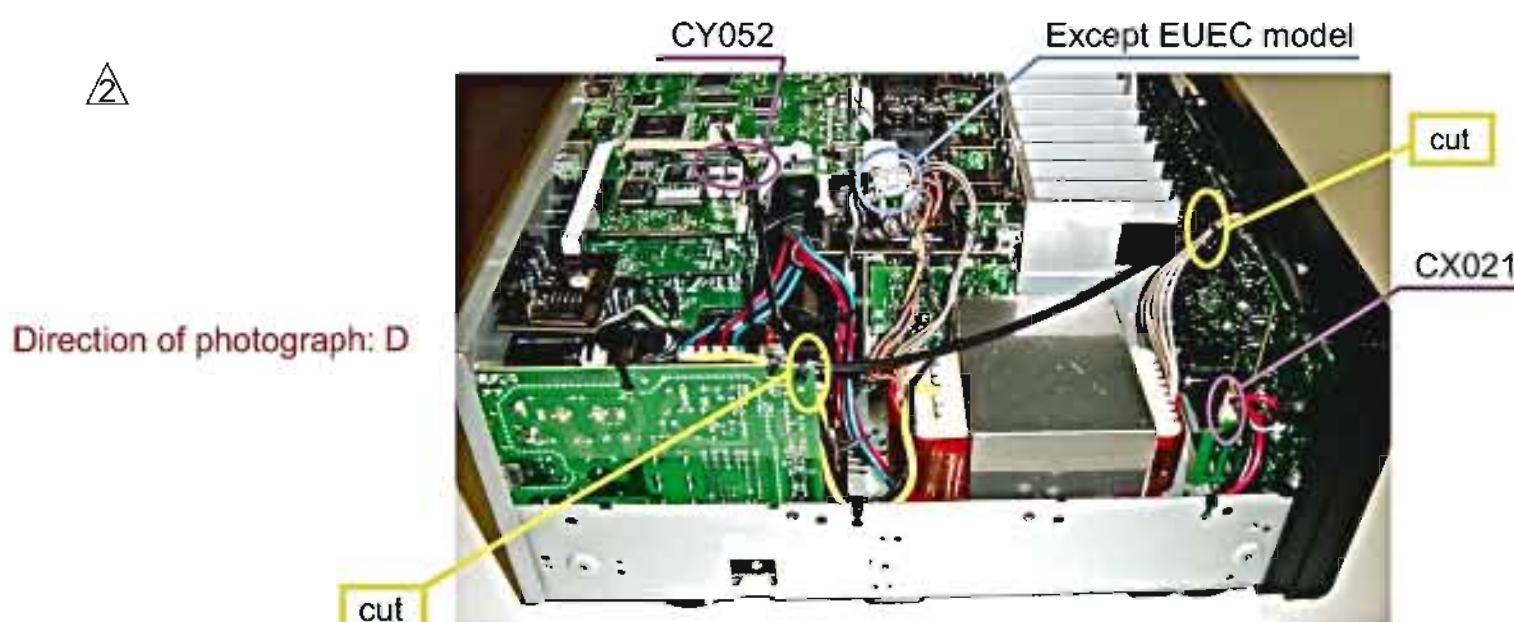
1. FRONT PANEL UNIT ASSY

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

- (1) Remove the screws.

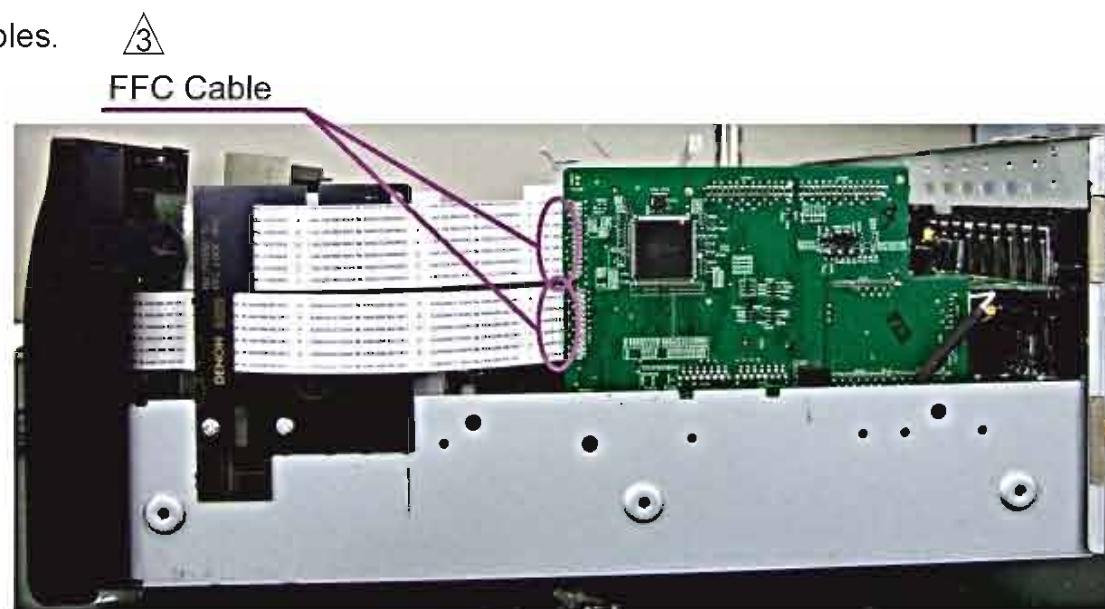


- (2) Cut the wire clamps then disconnect the connector wires.



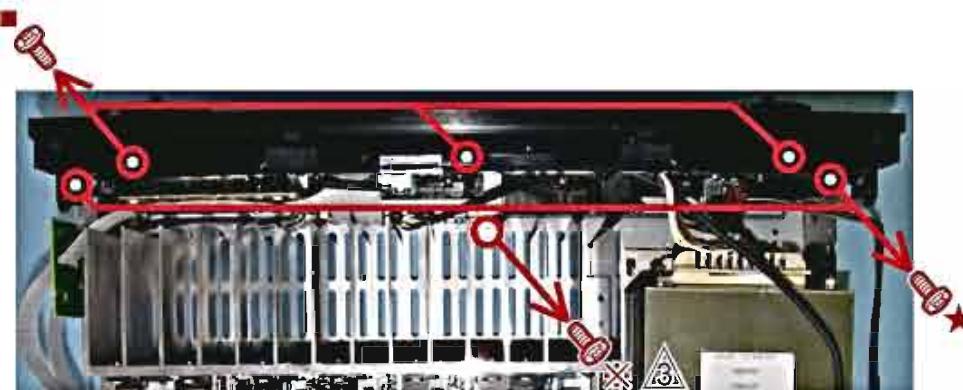
(3) Disconnect the FFC Cables.

Direction of photograph: C



(4) Remove the screws

2

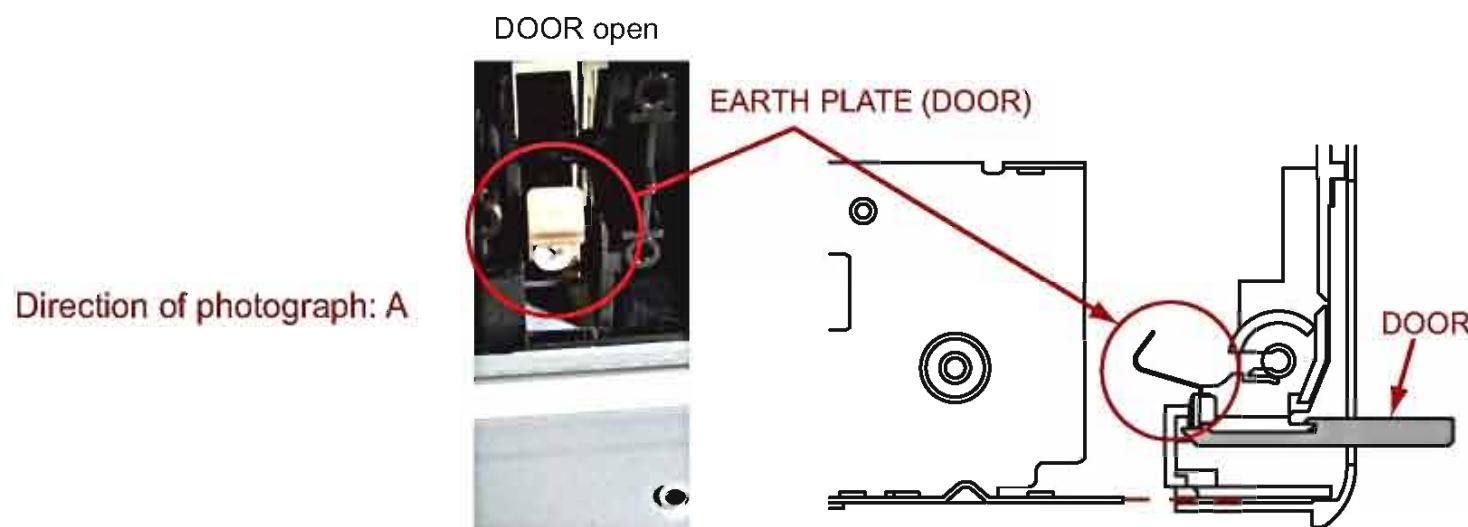


Please refer to "EXPLODED VIEW" for the disassembly method of each P.W.B included in FRONT PANEL ASSY.

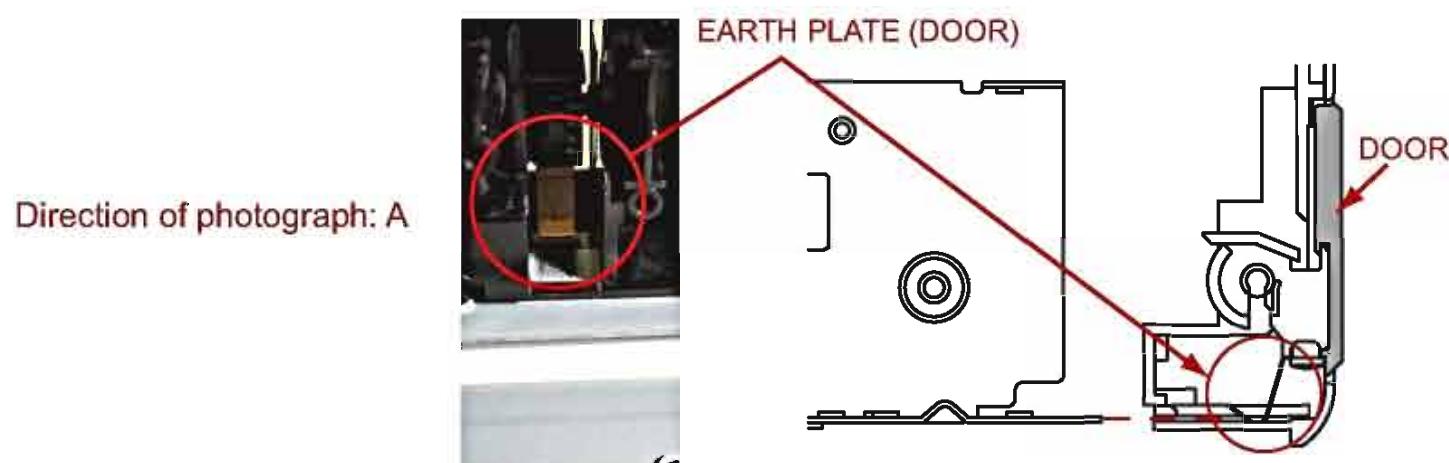
[Attention of assembling]

When mounting the FRONT PANEL ASSY on the CHASSIS, do so with the DOOR open so as to prevent breaking the EARTH PLATE(DOOR).

If the FRONT PANEL ASSY is mounted on the chassis with the DOOR closed, the EARTH PLATE(DOOR) will hit the CHASSIS and break.



DOOR closed (EARTH PLATE (DOOR) will be broken.)



2. DIGITAL UNIT ASSY

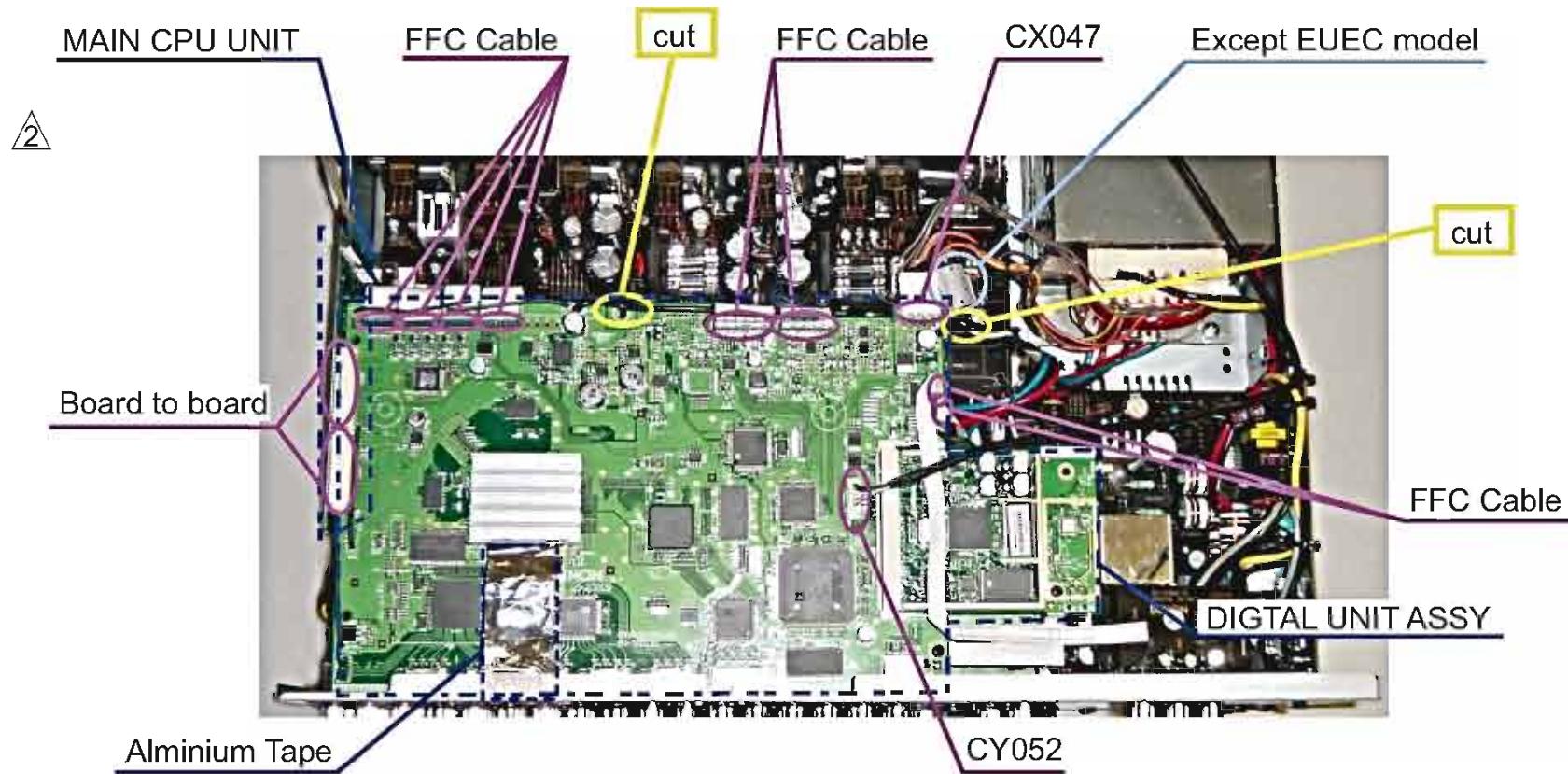
Proceeding : **TOP COVER** → **DIGITAL UNIT ASSY**

- (1) Remove the screws.

Direction of photograph: A



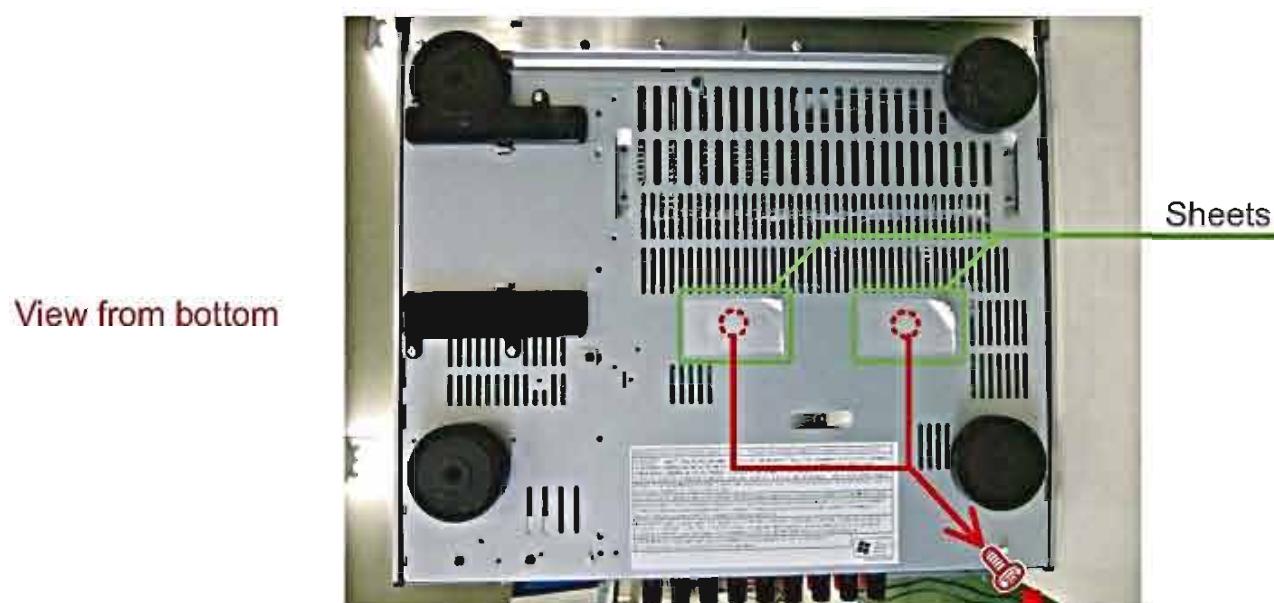
- (2) Remove the alminium tape, then cut the wire clamps. Disconnect the connector wire, FFC Cables, and board to board.



3. BACK PANEL UNIT ASSY

Proceeding : **TOP COVER** → **DIGITAL UNIT ASSY** → **BACK PANEL UNIT ASSY**

Remove the Sheets, then remove the screws.



Remove the screws.

EUEC model



Direction of photograph: A

▲

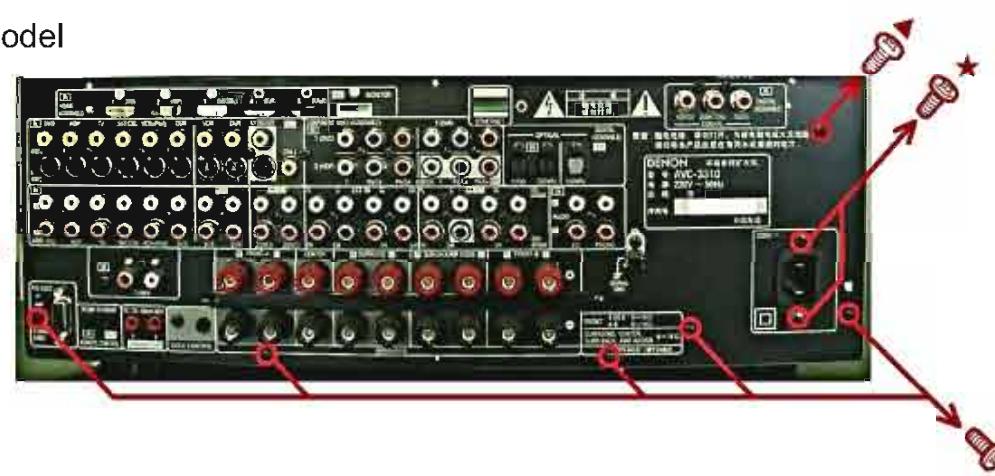
E2 model



Direction of photograph: A

▲

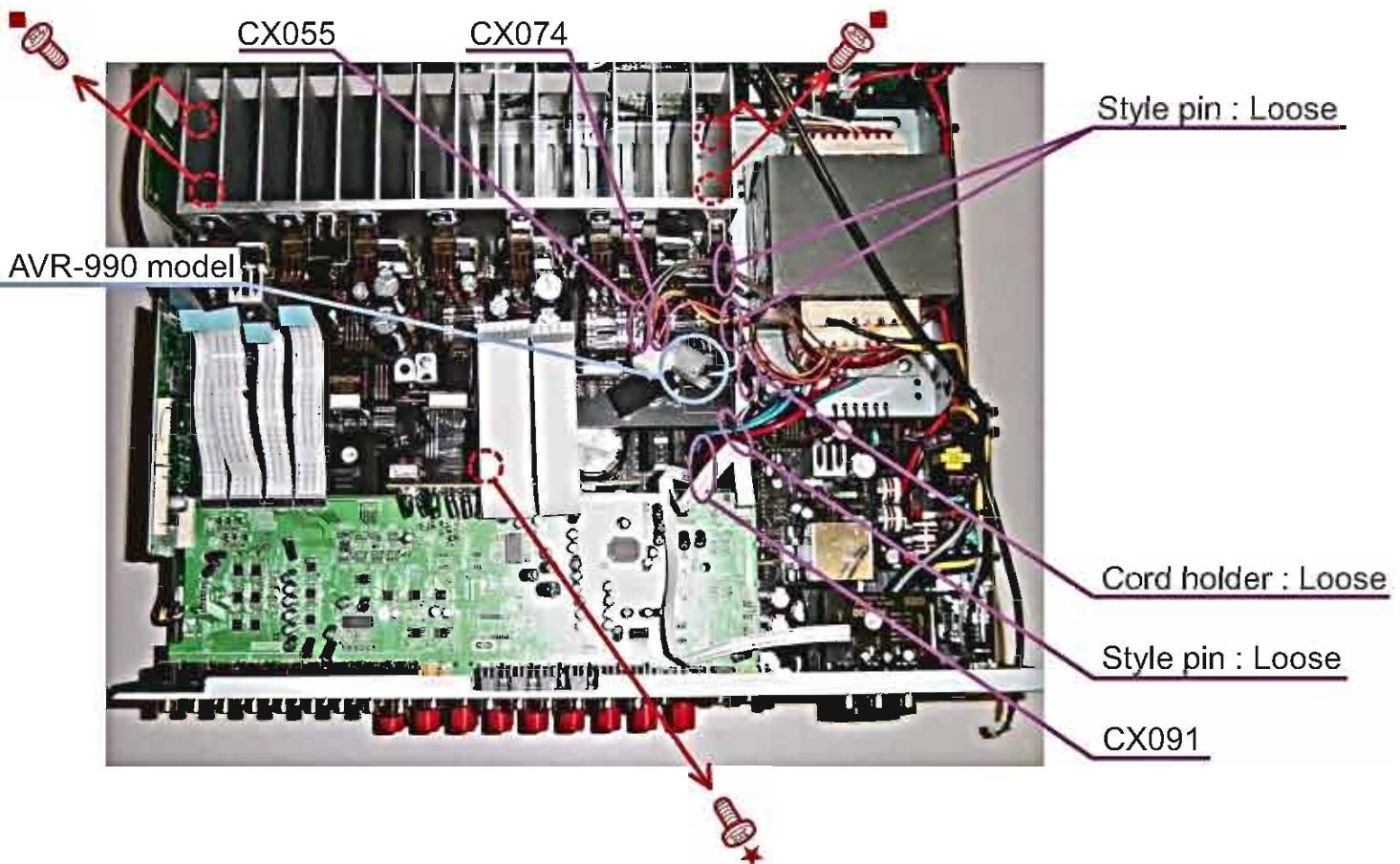
E1C model



Direction of photograph: A

(3) Disconnect the connector wires and FFC Cable, then remove the screws.

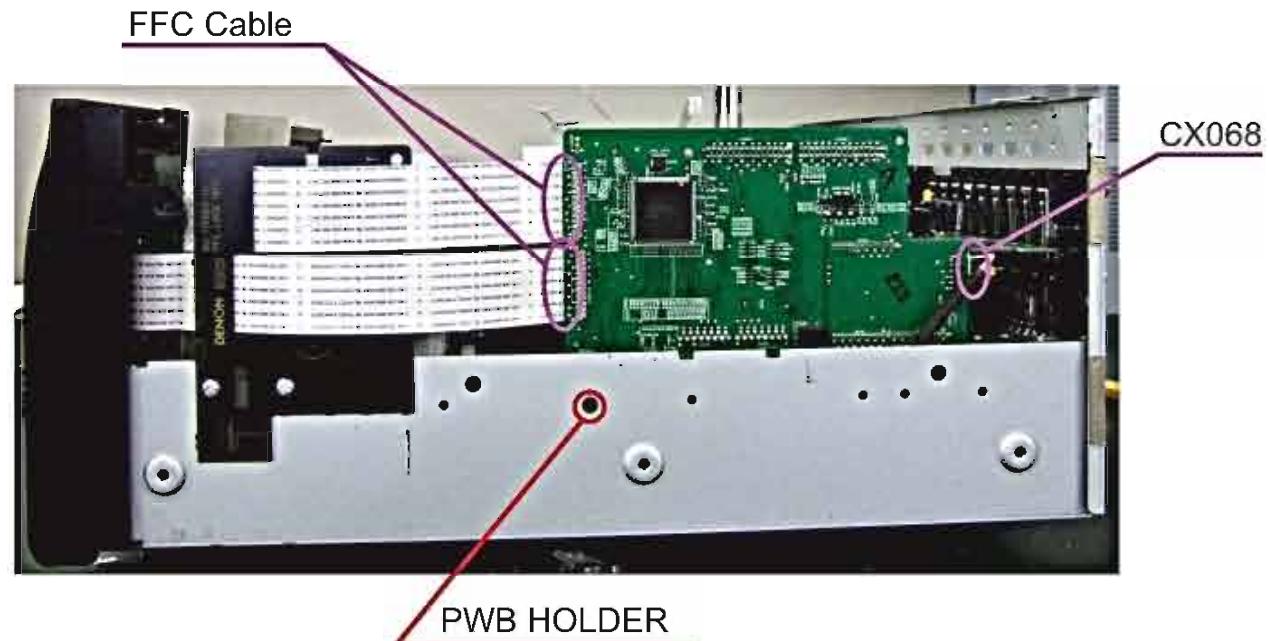
△
2



(4) Remove the PWB HOLDER. Disconnect the connector wire and FFC Cable.

△
3

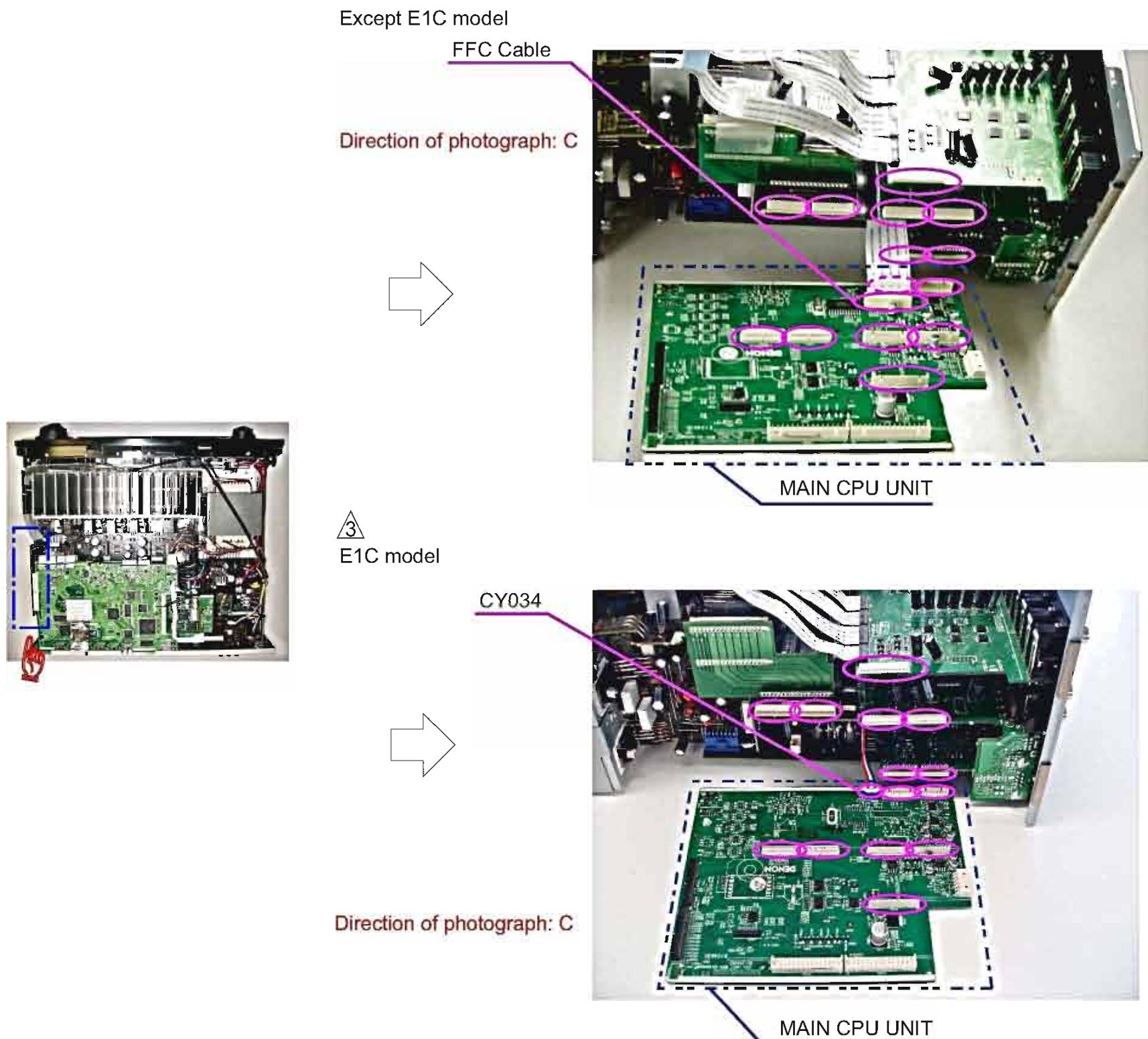
Direction of photograph: C



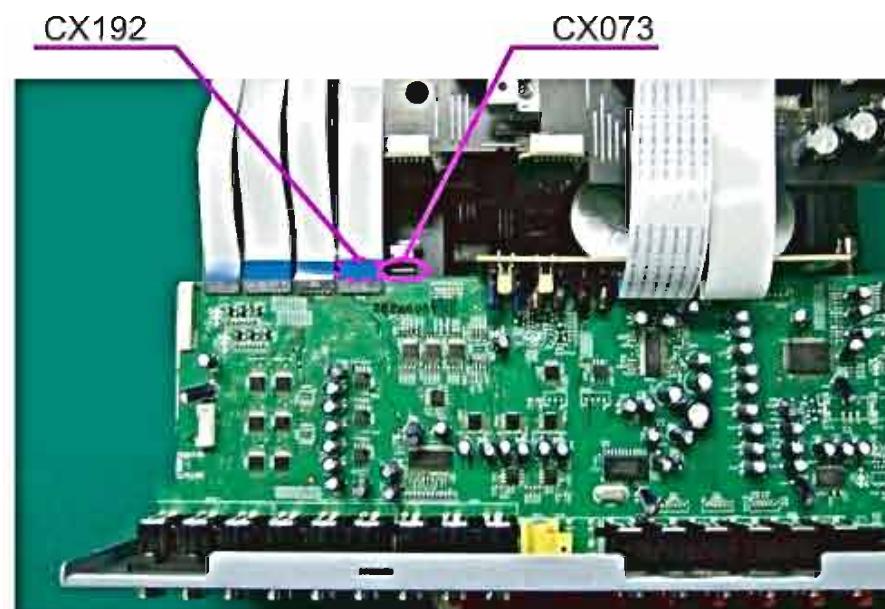
4. A.VIDEO UNIT, AUDIO UNIT and RADIATOR UNIT ASSY

Proceeding : **TOP COVER** → **BACK PANEL UNIT ASSY** → **DIGITAL UNIT ASSY**
→ **A.VIDEO UNIT, A.AUDIO UNIT and RADIATOR UNIT ASSY** ③

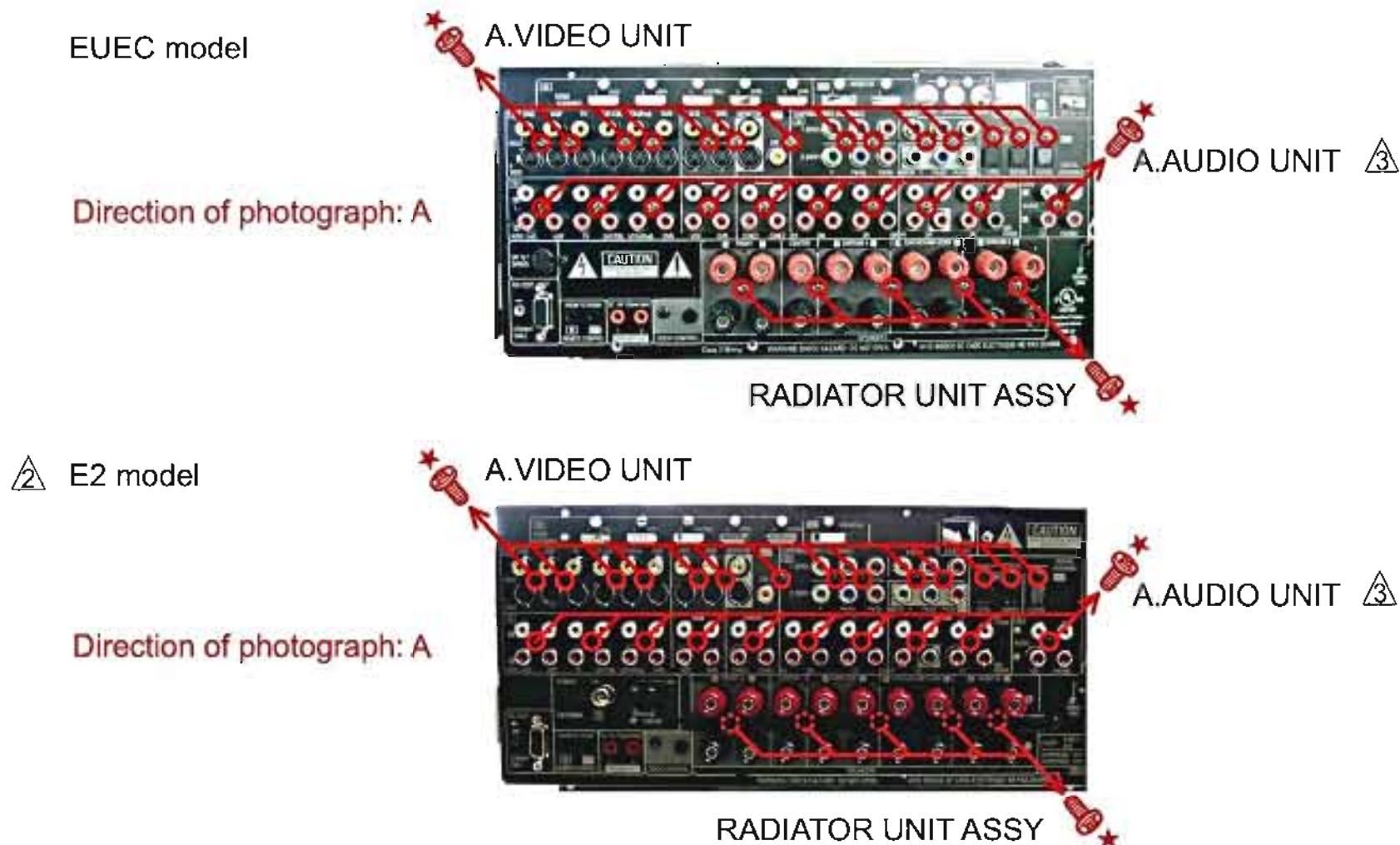
- (1) Disconnect the board to board and FFC Cable.



- (2) Disconnect the connector wires.



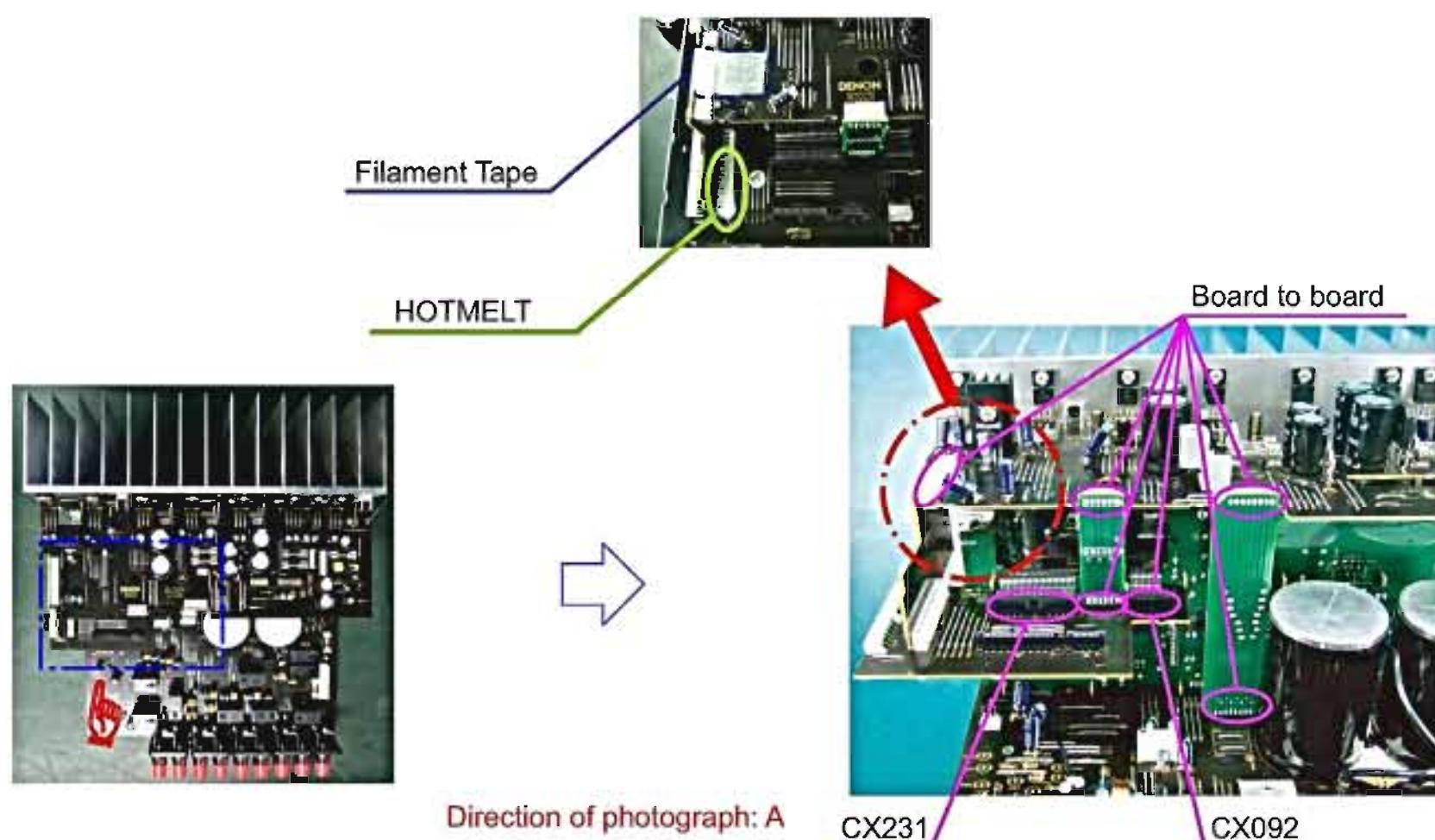
(3) Remove the screws.



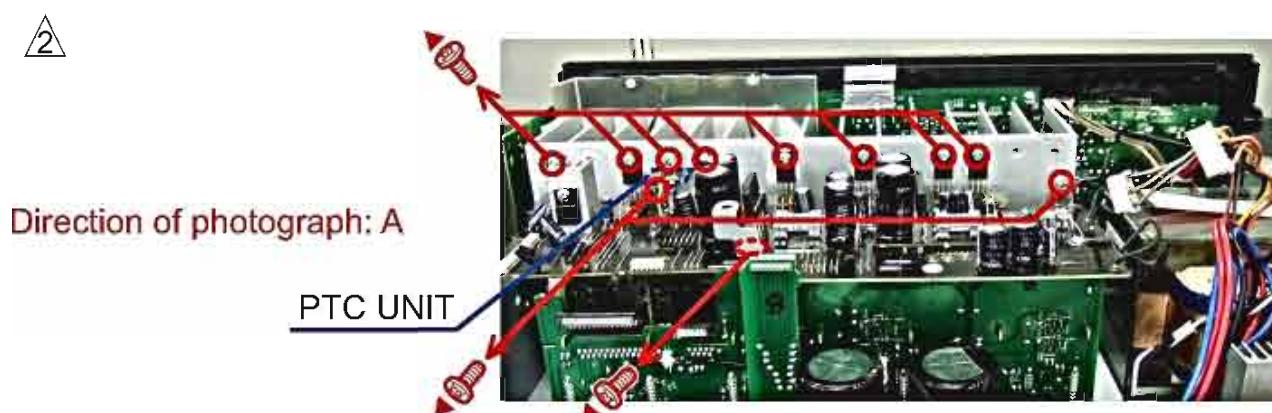
5. REG UNIT

Proceeding : **TOP COVER** → **BACK PANEL UNIT ASSY** → **DIGITAL UNIT ASSY**
→ **A.VIDEO UNIT, A.AUDIO UNIT and RADIATOR UNIT ASSY** \triangle
→ **REG UNIT**

(1) Disconnect the board to board and connector wires. Remove the Filament Tape.



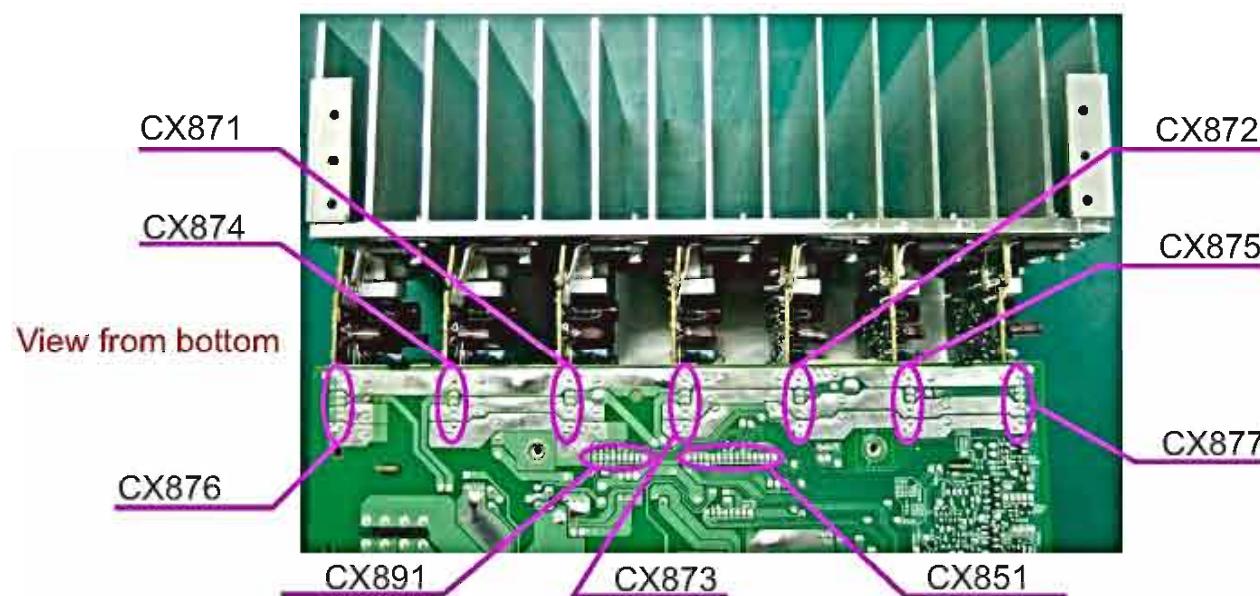
(2) Disconnect the connector wires, then remove the screws.



6. SPEAKER UNIT

Proceeding : **TOP COVER** → **BACK PANEL UNIT ASSY** → **DIGITAL UNIT ASSY**
→ **A.VIDEO UNIT, A.AUDIO UNIT and RADIATOR UNIT ASSY** △3
→ **REG UNIT** → **SPEAKER UNIT**

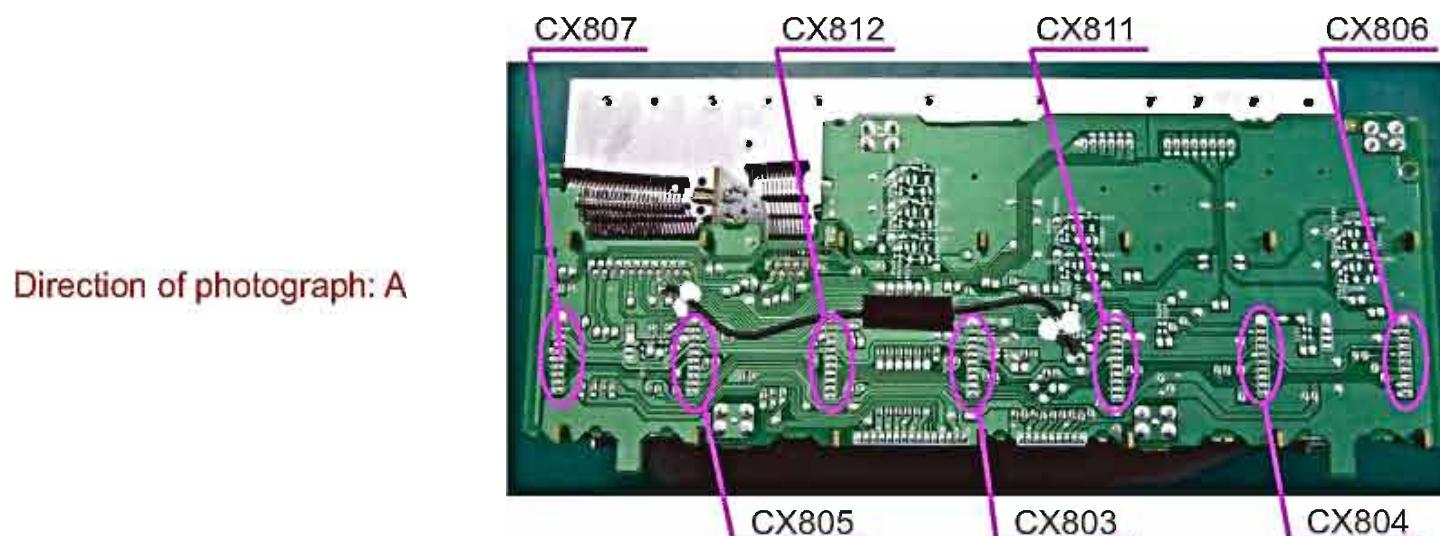
(1) Disconnect the VH connector and conector.



7. AMP CONNECT UNIT

Proceeding : **TOP COVER** → **BACK PANEL UNIT ASSY** → **DIGITAL UNIT ASSY**
→ **A.VIDEO UNIT, A.AUDIO UNIT and RADIATOR UNIT ASSY** △3
→ **REG UNIT** → **SPEAKER UNIT** → **AMP CONNECT UNIT**

(1) Disconnect the connector.



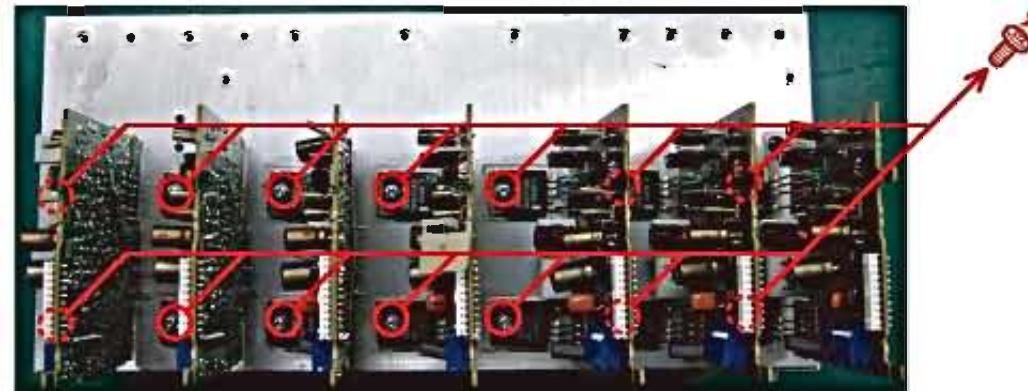
8. P.AMP UNIT



Proceeding : **TOP COVER** → **BACK PANEL UNIT ASSY** → **DIGITAL UNIT ASSY**
→ **A.VIDEO UNIT, A.AUDIO UNIT and RADIATOR UNIT ASSY** ③
→ **REG UNIT** → **SPEAKER UNIT** → **AMP CONNECT UNIT**
→ **P.AMP UNIT**

- (1) Remove the screws.

Direction of photograph: B



SPECIAL MODE

Special mode setting button

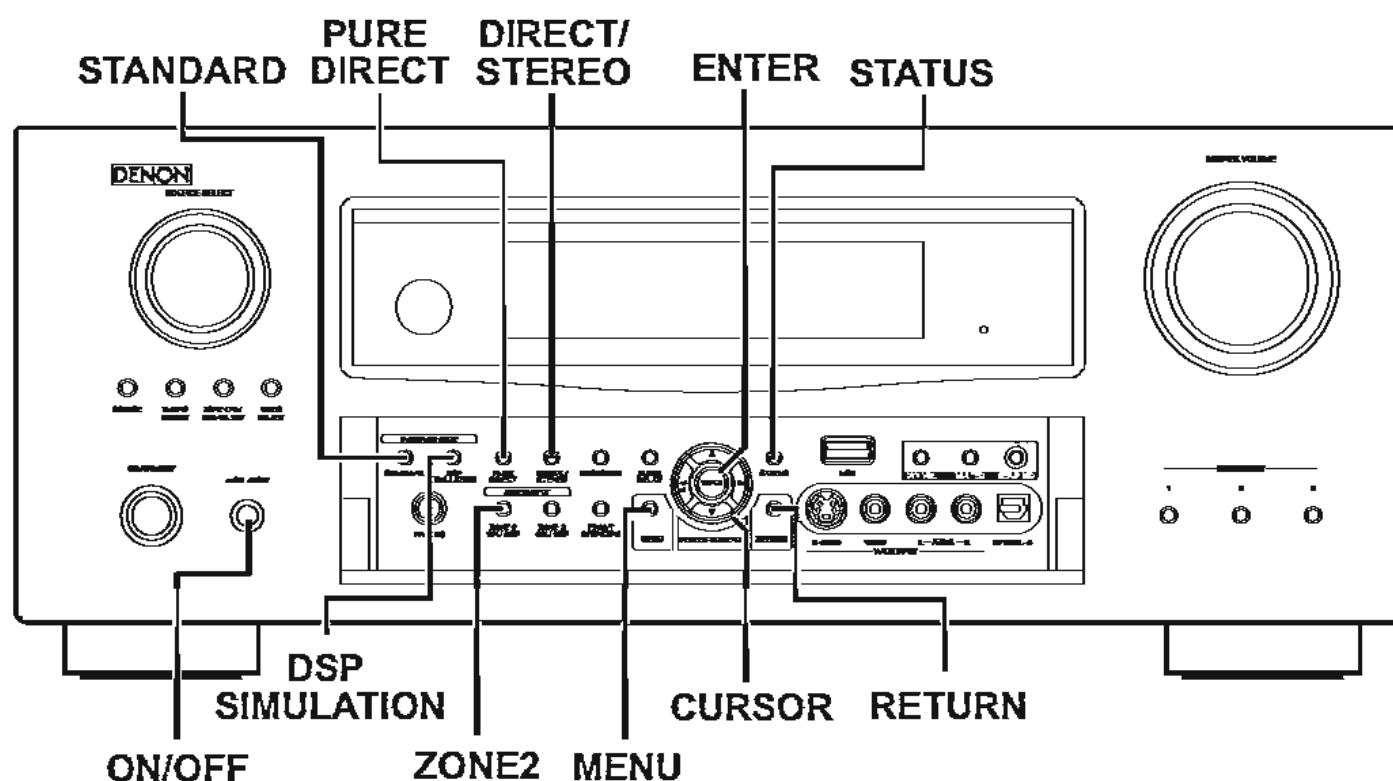
※ Press the ON/OFF button to turn on while pressing both buttons A and B at the same time.

Mode	Button A	Button B	contents
Version display (μcom/DSP Error Display)	STATUS	RETURN	Serial No. and firmware versions such as Main, Sub, DSP are displayed in the FL manager. Errors are displayed when they occur. (Refer to 16 page.)
Displaying the protection history mode	STATUS	MENU	Displaying the protection history (Refer to 18 page.)
Initialization mode (Remove settings for Installer Setup.)	STANDARD	DSP SIMULATION	Backup data initialization is carried out. (Remove settings for Installer Setup.)
Initialization mode (Includes settings for Installer Setup)	CURSOR UP	CURSOR DOWN	Backup data initialization is carried out. (Includes settings for Installer Setup)
Mode for switching tuner frequency step	STANDARD	DIRECT/ STEREO	--E2 model only-- Change tuner frequency step to FM:200kHz/AM:10kHzSTEP ▲
Mode for preventing remote control acceptance	STATUS	ENTER	Operations using remote control are rejected. (Mode cancellation: Turn off power and execute the same button operations as when performing setup.)
Panel lock mode	DSP SIMULATION	ZONE2	Operations using main unit panel buttons or master volume are rejected.
Panel lock mode (Remove Master volume)	DIRECT/ STEREO	ZONE2	Operations using main unit panel buttons are rejected.
Cancellation of panel lock mode	PURE DIRECT	ZONE2	Panel lock mode is cancelled.
Installer Setup mode	MENU	CURSOR LEFT	Access Remote Maintenance mode via the internet. Installer Setup is displayed on GUI/Option Menu. ※ Refer to AVR_RemoteMaintenance_.pdf of SDI.

Note:

If "S" is displayed on the fluorescent display, the unit is set to the special developer's mode and RS-232C communications are not possible.

Press and hold in the "STATUS" and "▽" buttons for over 3 seconds with the power turned on to turn the "S" display off. RS-232C communications are now enabled.



1. Version display (μcom/DSP Error Display)

1.1. Operation Spec

μcom version display mode:

When the following conditions are satisfied at its starting state, error information is displayed before version information.

Starting method (same as μcom version display):

Press the ON/OFF button to turn on while pressing both buttons STATUS and RETURN at the same time.

("Error information" is displayed after about 10 seconds.)

The FL display changes in the order given in item-1.2. each time you press the STATUS button.

1.2. Display Order

Error information(Refer to 1.3. Error display) → ①Model destination information ②Main-μcom version information/
Main1st Boot Loader ③Sub μcom ④DSP version information ⑤Audio PLD ⑥OSD FPGA Config ⑦OSD Program
⑧OSD Font Data ⑨ETHER(DM860) First BootLoafer, HardwareID ⑩ETHER(DM860) Second BootLoader,
RhapsodyFlag ⑪ETHER(DM860) IMAGE ⑫ETHER(DM860) MAC ADDRESS information ⑬HD RADIO SDK /HD
RADIO DSP(E2 model only) ⑭MultEQ Pro APP (Displayed when Audyssey Pro is complete)
⑮MultEQ Pro ICL (Displayed when Audyssey Pro is complete)

No.	Display item	Display
①	Model destination	
	Cereal No.	
②	Main-μcom	
	Main 1st Boot Loder	
③	Sub-μcom	
④	DSP	
⑤	Audio PLD	
⑥	FPGA	
⑦	OSD Program	
⑧	OSD Font Data	
⑨	DM860 1st Bootloader - Hard ID	
⑩	DM860 2nd Bootloader - Rhapsody Flag	
⑪	DM860 Image	
⑫	ETHER MAC ADDRESS	
⑬	HD RADIO SDK	
	HD RADIO DSP	
⑭	MultEQ Pro APP	
⑮	MultEQ Pro ICL	

1.3. Error display

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

Display order is ①②③④⑤.

Condition	State	Display
① Sub-μcom NG	No response from Sub-μcom	"□S U B □ E R R O R □ 0 1 □ □"
② DIR NG	No response from DIR	"□D I R □ E R R O R □ 0 1 □ □"
③ DSP1 NG	When DSP boot, executing DSP reset makes no change to DSP1 FLAG0 port "H".	"□D S P □ E R R O R □ 0 1 □ □"
	No change to DSP FLAG0 port "H" before issuing DSP command.	"□D S P □ E R R O R □ 0 2 □ □"
	When DSP data read, executing WRITE="L" makes no change to ACK="H".	"□D S P □ E R R O R □ 0 3 □ □"
	When DSP data read, executing REQ="L" makes no change to ACK="L".	"□D S P □ E R R O R □ 0 4 □ □"
	When DSP data write, executing WRITE="H" makes no change to ACK="H".	"□D S P □ E R R O R □ 0 5 □ □"
	When DSP data write, executing REQ="L" makes no change to ACK="L".	"□D S P □ E R R O R □ 0 6 □ □"
	When DSP special code boot, executing DSP reset makes no change to DSP FLAG0 port "H".	"□D S P □ E R R O R □ 1 1 □ □"
	No change to DSP FLAG0 port "H" before issuing DSP special read command.	"□D S P □ E R R O R □ 1 2 □ □"
	No change to DSP FLAG0 port "H" before DSP version read.	"□D S P □ E R R O R □ 1 3 □ □"
④ EEPROM NG	Error appeared in EEPROM checksum.(*** is a block address number.)	"□E 2 P R O M □ E R R * * * □ □"
⑤ Both SUB/DSP /EEPROM OK		(No error display, version display only)

2. Displaying the protection history mode

2.1. Operation specifications

ERROR MODE(displaying the protection history)

When started up, the error information is displayed.

Starting up:

With the "MENU" and "STATUS" buttons pressed, press the "ON/OFF" button to turn the power on. The error (protection history display) mode is set.

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

2.2. About the display on the FL display

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

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



(2) For ASO/DC (when the last protection incident was ASO or DC protection)



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

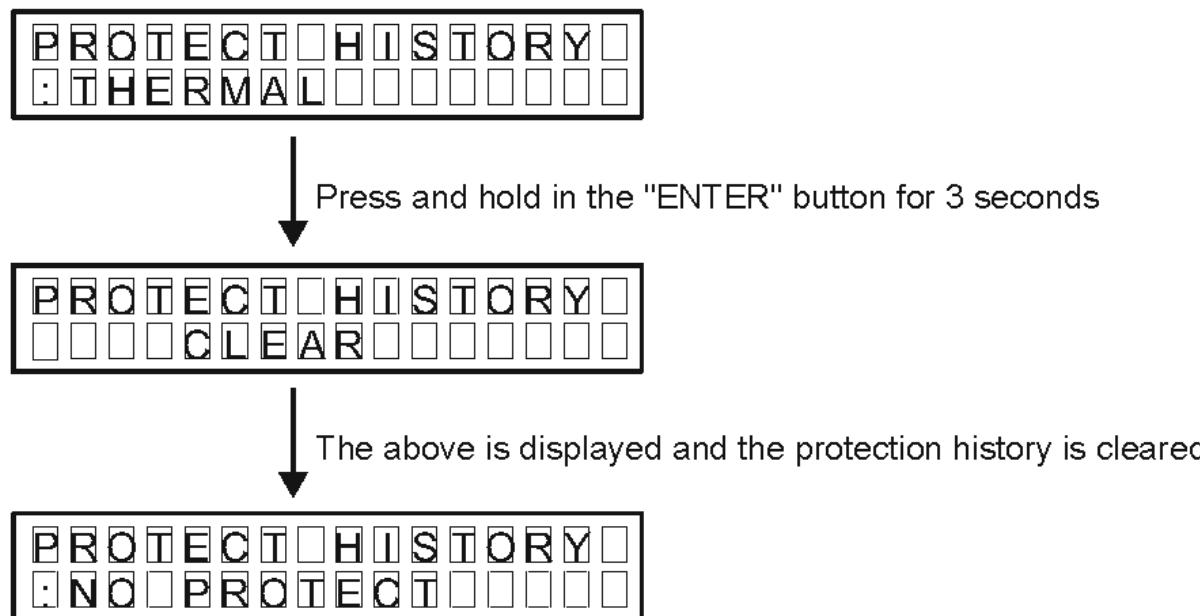


When the "STATUS" button is pressed again after the above protection history is displayed, the normal display reappears.

2.3. Clearing the protection history

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

- (1) Start up the error (protection history display) mode, display the error, then press and hold in the "ENTER" button for 3 seconds.



- (2) Initialize.

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

Warning indication by the STANDBY LED

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

- (1) ASO/DC PROTECTION : Flashes in cycles of 0.5 seconds (0.25 seconds lit, 0.25 seconds off)
- (2) THERMAL PROTECTION : Flashes in cycles of 2 seconds (1 second lit, 1 second off)

3. Mode for switching tuner frequency step ---E2 model only---

3.1. Operation specification

Change tuner frequency step to FM:200kHz/AM:10kHz STEP.

Starting up:

1. With the "STANDARD" and "DIRECT/STEREO" buttons pressed, press the "ON/OFF" button to turn the power on.

"Tuner FRQ Set" appears on the display.



2. Use  and select "<AM10/FM200>".



3. Press the "ENTER" button.

4. Press the "ON/OFF" button to turn the power off.

5. Then, press the "ON/OFF" button to turn the power on.

NOTE : Backup data(Remove settings for Installer Setup) initialization is carried out automatically.

VERSION UPGRADE PROCEDURE OF FIRMWARE

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

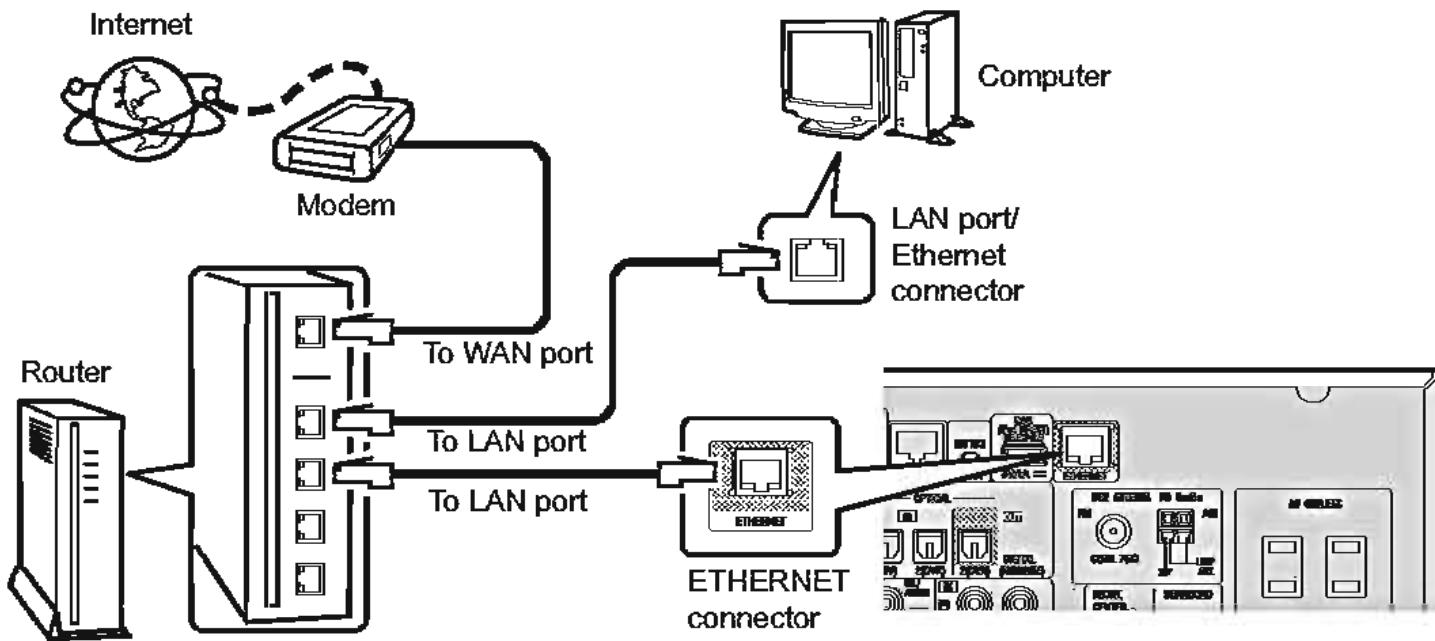
1. Update from the Internet

1.1. Connecting to the Network

(1) System Requirement

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

(2) Setting



1.2. Check for Update and Update

Check if the latest firmware exists. You can also check approximately how long it will take 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 "Manual Setup" → "Option Setup" → "Firmware Update" → "Update Check".
- (3) Press the ENTER button.
 - The latest version of the firmware uploaded to the web is displayed.
 - If the latest firmware version is on the web, proceed to (4).
 - If the latest firmware is 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 red and the GUI screen is shut down. And a rough remaining time is indicated on the display.
 - When updating is complete the power indicator lights green and normal status is resumed.
- (5) Press the MENU button to close the menu.

-- Cautions on Firmware Update --

- In order to use these functions, you must have the correct system requirements and settings for a broadband Internet connection.
- Do not turn off the power until updating is completed.

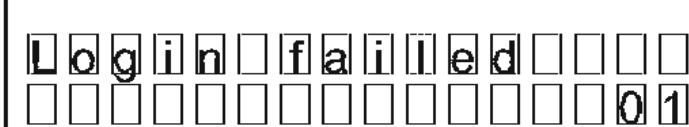
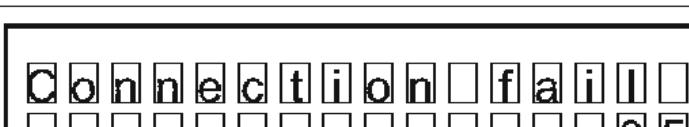
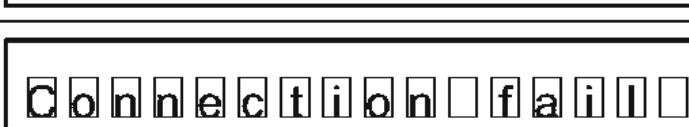
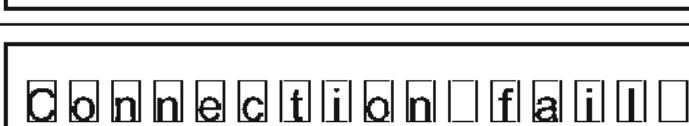
Even with a broadband connection to the Internet, approximately about 1 hour is required for the updating procedure to be completed.

Once updating starts, normal operations on the AVR-3310 cannot be performed until updating is completed. Also, setting items of the GUI menu of AVR-3310 or setting items of the image adjustment may be initialized.

Make a note of the settings before updating, and set them again after updating.

1.3. About the error code

See the chart below for error codes, details of faults, and coping strategies when firmware updates are performed through DPMS (Denon Product Management Server).

Error code	Details of Error code	Display	Coping strategies
01	Log-in to DPMS has failed.		Reset and update again. Carry out the update in an environment that has little network load.
02	Line, etc., is busy when logging into DPMS.		Carry out the update in an environment that has little network load.
03	Connection to DPMS failed.		Check the network connection. Carry out the update in an environment that has little network load.
04	Firmware file data was requested but error message was received.		Check the network connection. Carry out the update in an environment that has little network load.
05	Firmware file data was requested but it timed out.		Check the network connection. Carry out the update in an environment that has little network load.
06	Firmware file data was requested but error message was received.		Check the network connection. Carry out the update in an environment that has little network load.
07	All firmware file data was requested but it timed out.		Check the network connection. Carry out the update in an environment that has little network load.
08	Main CPU firmware file data was requested but error message was received.		Check the network connection. Carry out the update in an environment that has little network load.
09	Main CPU firmware file data was requested but it timed out.		Check the network connection. Carry out the update in an environment that has little network load.
0A	Error (NG) message received when downloading Main CPU firmware.		Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
0B	Error (line congestion) message received when downloading Main CPU firmware.		Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
0C	Error (connection failure) message received when downloading Main CPU firmware.		Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
0D	Data acquisition failed (timed out) when downloading Main CPU firmware.		Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
30	Main CPU failed to receive firmware for rewriting sent from DM860 (when timed out).		Turn the power off then back on. Updating starts automatically.

Error code	Details of Error code	Display	Coping strategies
31	Main CPU failed to receive firmware for rewriting sent from DM860 (when an error)	Main Firm *** min Updating fail 31	Turn the power off then back on. Updating starts automatically.
32	There was invalid data in the firmware for rewriting sent from DM860 to Main CPU (when a Check Sum error).	Main Firm *** min Updating fail 32	Turn the power off then back on. Updating starts automatically.
33	The deletion of block data failed before rewriting Main CPU.	Main Firm *** min Erase fail 33	Turn the power off then back on. Updating starts automatically.
34	The rewriting of block data failed when rewriting Main CPU.	Main Firm *** min Updating fail 34	Turn the power off then back on. Updating starts automatically.
35	The data verification was invalid after rewriting Main CPU.	Main *** * * min UpdateCheck NG 35	Turn the power off then back on. Updating starts automatically.
36	Log-in to DPMS has failed when rewriting firmware such as Sub CPU, DSP, FPGA, and PLD.	Login failed 36	Carry out the update in an environment that has little network load.
37	Line, etc., is busy when logging into DPMS when rewriting firmware such as Sub CPU, DSP, FPGA, and PLD.	Server is busy 37	Carry out the update in an environment that has little network load.
38	Connection to DPMS failed when rewriting firmware such as Sub CPU, DSP, FPGA, and PLD.	Connection fail 38	Check the network connection. Carry out the update in an environment that has little network load.
39	Connection to DPMS timed out when rewriting firmware such as Sub CPU, DSP, FPGA, and PLD.	Connection fail 39	Check the network connection. Carry out the update in an environment that has little network load.
3A	Error (NG) message received when downloading firmware when rewriting Main CPU.	Download fail 3A	Turn the power off then back on. 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 rewriting Main CPU.	Download fail 3B	Turn the power off then back on. 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 rewriting Main CPU.	Download fail 3C	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
3D	Data acquisition failed (timed out) when downloading firmware when rewriting Main CPU.	Connection fail 3D	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
3E	Error message received regarding firmware data when rewriting Main CPU.	Connection fail 3E	Check the network connection. Carry out the update in an environment that has little network load.
3F	Firmware file data was requested but it timed out when rewriting Main CPU.	Connection fail 3F	Check the network connection. Carry out the update in an environment that has little network load.

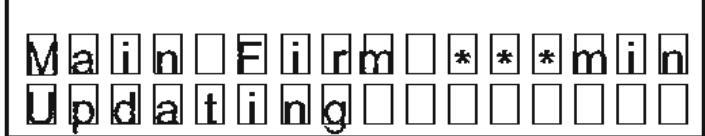
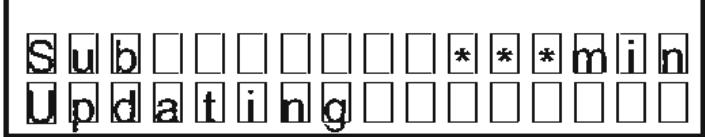
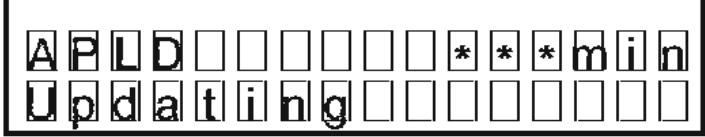
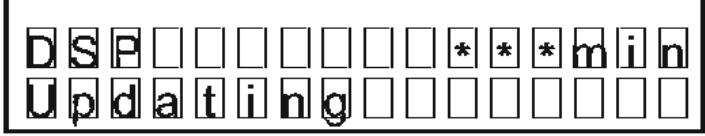
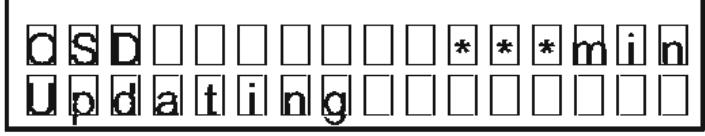
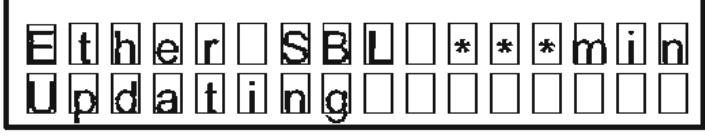
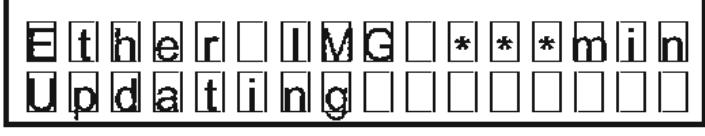
Error code	Details of Error code	Display	Coping strategies
50	Log-in to DPMS has failed when rewriting firmware such as Sub CPU, DSP, FPGA, and PLD.	Sub * * * * * * * * m i n L o g i n f a i l e d * * 5 0	Carry out the update in an environment that has little network load.
51	Line, etc., is busy when logging into DPMS when rewriting firmware such as Sub CPU, DSP, FPGA, and PLD.	Sub * * * * * * * * m i n S e r v e r i s b u s y * * 5 1	Carry out the update in an environment that has little network load.
52	Connection to DPMS failed when rewriting firmware such as Sub CPU, DSP, FPGA, and PLD.	Sub * * * * * * * * m i n C o n n e c t i o n F a i l * * 5 2	Check the network connection. Carry out the update in an environment that has little network load.
53	Connection to DPMS timed out when rewriting firmware such as Sub CPU, DSP, FPGA, and PLD.	Sub * * * * * * * * m i n C o n n e c t i o n F a i l * * 5 3	Check the network connection. Carry out the update in an environment that has little network load.
54	Error message received regarding firmware data after logging in to DPMS when rewriting firmware such as Sub CPU, DSP, FPGA, and PLD.	Sub * * * * * * * * m i n U p d a t i n g f a i l * * 5 4	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
55	When rewriting firmware such as Sub CPU, DSP, FPGA, and PLD, request was made for firmware data after logging in to DPMS, but it timed out.	Sub * * * * * * * * m i n U p d a t i n g f a i l * * 5 5	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
56	Failure to download firmware after logging in to DPMS when rewriting firmware such as Sub CPU, DSP, FPGA, and PLD.	Sub * * * * * * * * m i n D o w n l o a d f a i l * * 5 6	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
57	Firmware download error received (line congestion) after logging in to DPMS when rewriting firmware such as Sub CPU, DSP, FPGA, and PLD.	Sub * * * * * * * * m i n S e r v e r i s b u s y * * 5 7	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
58	Firmware download error received (connection failure) after logging in to DPMS when rewriting firmware such as Sub CPU, DSP, FPGA, and PLD.	Sub * * * * * * * * m i n C o n n e c t i o n F a i l * * 5 8	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
59	When rewriting firmware such as Sub CPU, DSP, FPGA, and PLD, request was made for downloading firmware after logging in to DPMS, but it timed out.	Sub * * * * * * * * m i n D o w n l o a d f a i l * * 5 9	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
5A	NACK received when "C" command sent to Sub CPU, DSP, FPGA, PLD etc.	Sub * * * * * * * * m i n C o n n e c t i o n F a i l * * 5 A	Turn the power off then back on. Updating starts automatically.
5B	NACK received when "L" command sent to Sub CPU, DSP, FPGA, PLD etc.	Sub * * * * * * * * m i n U p d a t i n g f a i l * * 5 B	Turn the power off then back on. Updating starts automatically.
5C	Sub CPU, DSP, FPGA, PLD etc. failed to receive firmware for rewriting sent from DM860 (when timed out).	Sub * * * * * * * * m i n U p d a t i n g f a i l * * 5 C	Turn the power off then back on. Updating starts automatically.
5D	Sub CPU, DSP, FPGA, PLD etc. failed to receive firmware for rewriting sent from DM860 (when an error).	Sub * * * * * * * * m i n U p d a t i n g f a i l * * 5 D	Turn the power off then back on. Updating starts automatically.
5E	Invalid data in firmware such as Sub CPU, DSP, FPGA, and PLD for rewriting sent from DM860 (when a Check Sum error).	Sub * * * * * * * * m i n U p d a t i n g f a i l * * 5 E	Turn the power off then back on. Updating starts automatically.

Error code	Details of Error code	Display	Coping strategies
5F	Invalid data in firmware such as Sub CPU, DSP, FPGA, and PLD for rewriting sent from DM860 (invalid data received).	Sub[*][*][*]min Updating fail 5F	Turn the power off then back on. Updating starts automatically.
60	NACK received when "P" command sent to Sub CPU, DSP, FPGA, PLD etc.	Sub[*][*][*]min Updating fail 60	Turn the power off then back on. Updating starts automatically.
61	NACK received when "I" command sent to Sub CPU, DSP, FPGA, PLD etc.	Sub[*][*][*]min UpdateCheckNG 61	Turn the power off then back on. Updating starts automatically.
80	Failure to acquire serial flash data and before deleting serial flash.	GUIFlash[*][*]min Updating fail 80	Turn the power off then back on. Updating starts automatically.
81	Failure to delete data before rewriting serial flash.	GUIFlash[*][*]min Updating fail 81	Turn the power off then back on. Updating starts automatically.
82	Failure to receive firmware for serial flash rewriting sent by DM860 (when timed out).	GUIFlash[*][*]min Updating fail 82	Turn the power off then back on. Updating starts automatically.
83	Failure to receive firmware for serial flash rewriting sent by DM860 (when an error).	GUIFlash[*][*]min Updating fail 83	Turn the power off then back on. Updating starts automatically.
84	Failure to receive firmware for serial flash rewriting sent by DM860 (when a Check Sum error).	GUIFlash[*][*]min Updating fail 84	Turn the power off then back on. Updating starts automatically.
85	Failure to receive firmware for serial flash rewriting sent by DM860 (when invalid data received).	GUIFlash[*][*]min Updating fail 85	Turn the power off then back on. Updating starts automatically.
86	Failure to rewrite when writing data in serial flash.	GUIFlash[*][*]min Updating fail 86	Turn the power off then back on. Updating starts automatically.
A0	Failure to acquire (Application Mode) IP address before rewriting DM860 (AutoIP).	EtherIMG[*][*]min Connection fail A0	Check the network connection. Carry out the update in an environment that has little network load.
A1	Failure to acquire (Application Mode) IP address before rewriting DM860 (when timed out).	EtherIMG[*][*]min Connection fail A1	Check the network connection. Carry out the update in an environment that has little network load.
A2	Notification of invalid login via DPMS access when rewriting DM860 related firmware (Application Mode).	EtherIMG[*][*]min Login failed A2	Check the network connection. Carry out the update in an environment that has little network load.
A3	Notification of line congestion via DPMS access when rewriting DM860 related firmware (Application Mode).	EtherIMG[*][*]min Server is busy A3	Check the network connection. Carry out the update in an environment that has little network load.
A4	Notification of connection failure via DPMS access when rewriting DM860 related firmware (Application Mode).	EtherIMG[*][*]min Connection fail A4	Check the network connection. Carry out the update in an environment that has little network load.

Error code	Details of Error code	Display	Coping strategies
A5	Connection through DPMS access timed out when rewriting DM860 related firmware (Application Mode).	EtherIMG**min Connection fail A5	Check the network connection. Carry out the update in an environment that has little network load.
A6	Firmware data error message received after DPMS login when rewriting DM860 related firmware (Application Mode).	EtherIMG**min Updating fail A6	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
A7	When rewriting DM860 related firmware (Application Mode), request was made for firmware data after DPMS login but it timed out.	EtherIMG**min Updating fail A7	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
A8	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860 (AutoIP).	EtherIMG**min Connection fail A8	Check the network connection. Carry out the update in an environment that has little network load.
A9	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860 (when timed out).	EtherIMG**min Connection fail A9	Check the network connection. Carry out the update in an environment that has little network load.
AA	Notification of invalid login via DPMS access when rewriting DM860 related firmware (Boot Loader Mode).	EtherIMG**min Login failed AA	Check the network connection. Carry out the update in an environment that has little network load.
AB	Notification of line congestion via DPMS access when rewriting DM860 related firmware (Boot Loader Mode).	EtherIMG**min Server is busy AB	Check the network connection. Carry out the update in an environment that has little network load.
AC	Notification of connection failure via DPMS access when rewriting DM860 related firmware (Boot Loader Mode).	EtherIMG**min Connection fail AC	Check the network connection. Carry out the update in an environment that has little network load.
AD	Connection through DPMS access timed out when rewriting DM860 related firmware (Boot Loader Mode).	EtherIMG**min Connection fail AD	Check the network connection. Carry out the update in an environment that has little network load.
AE	Firmware download error message received (when download fails) when rewriting DM860 related firmware (Boot Loader Mode).	EtherIMG**min Download fail AE	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
AF	Firmware download error message received (line congestion) when rewriting DM860 related firmware (Boot Loader Mode).	EtherIMG**min Server is busy AF	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
B0	Firmware download error message received (connection failure) when rewriting DM860 related firmware (Boot Loader Mode).	EtherIMG**min Connection fail B0	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
B1	When rewriting DM860 related firmware (Boot Loader Mode), request was made for firmware download but it timed out .	EtherIMG**min Download fail B1	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.
B2	Error message received when rewriting DM860 related firmware.	EtherIMG**min Updating fail B2	Turn the power off then back on. Updating starts automatically. Carry out the update in an environment that has little network load.

Device display when firmware updated

Target of devide when firmware updated.

Target of device	Display	Error cpde
Main	 Main Firmware ***min Updating	30 ~ 35
Sub	 Sub ***min Updating	50 ~ 61
Audio PLD	 AP LD ***min Updating	50 ~ 61
DSP	 DSP ***min Updating	50 ~ 61
OSD (FPGA/Program/ Font Data)	 OSD ***min Updating	80 ~ 86
DM860 Boot Loader	 Ether SBL ***min Updating	A0 ~ B2
DM860 Image	 Ether IMG ***min Updating	A0 ~ B2

ADJUSTMENT

Audio Section

Idling Current (8U-110062, 8U-110063-3)

Required measurement equipment: DC Voltmeter

Preparation

(1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room temperature 15°C ~ 30°C (59°F ~ 86°F).

(2) Presetting

POWER (Power source switch)	OFF
SPEAKER (Speaker terminal)	No load
(Do not connect speaker, dummy resistor, etc.)	

Adjustment

(1) Remove top cover and set VR101, VR201, VR301, VR401, VR501, VR601, VR701, on 8U-110062 (POWER AMP Unit) at fully counterclockwise (○).

(2) Connect DC Voltmeter to test points(8U-110063-3).

- FRONT-Lch: CX660 ③ ④ pin
- FRONT-Rch: CX660 ⑤ ⑥ pin
- CENTER ch: CX660 ① ② pin
- SURROUND-Lch: CX680 ⑤ ⑥ pin
- SURROUND-Rch: CX680 ⑦ ⑧ pin
- SURROUND BACK-Lch: CX680 ① ② pin
- SURROUND BACK-Rch: CX680 ③ ④ pin)

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

(4) Presetting.

MASTER VOLUME : "—" counterclockwise (○ min.)

MODE : 7CH STEREO

FUNCTION : CD

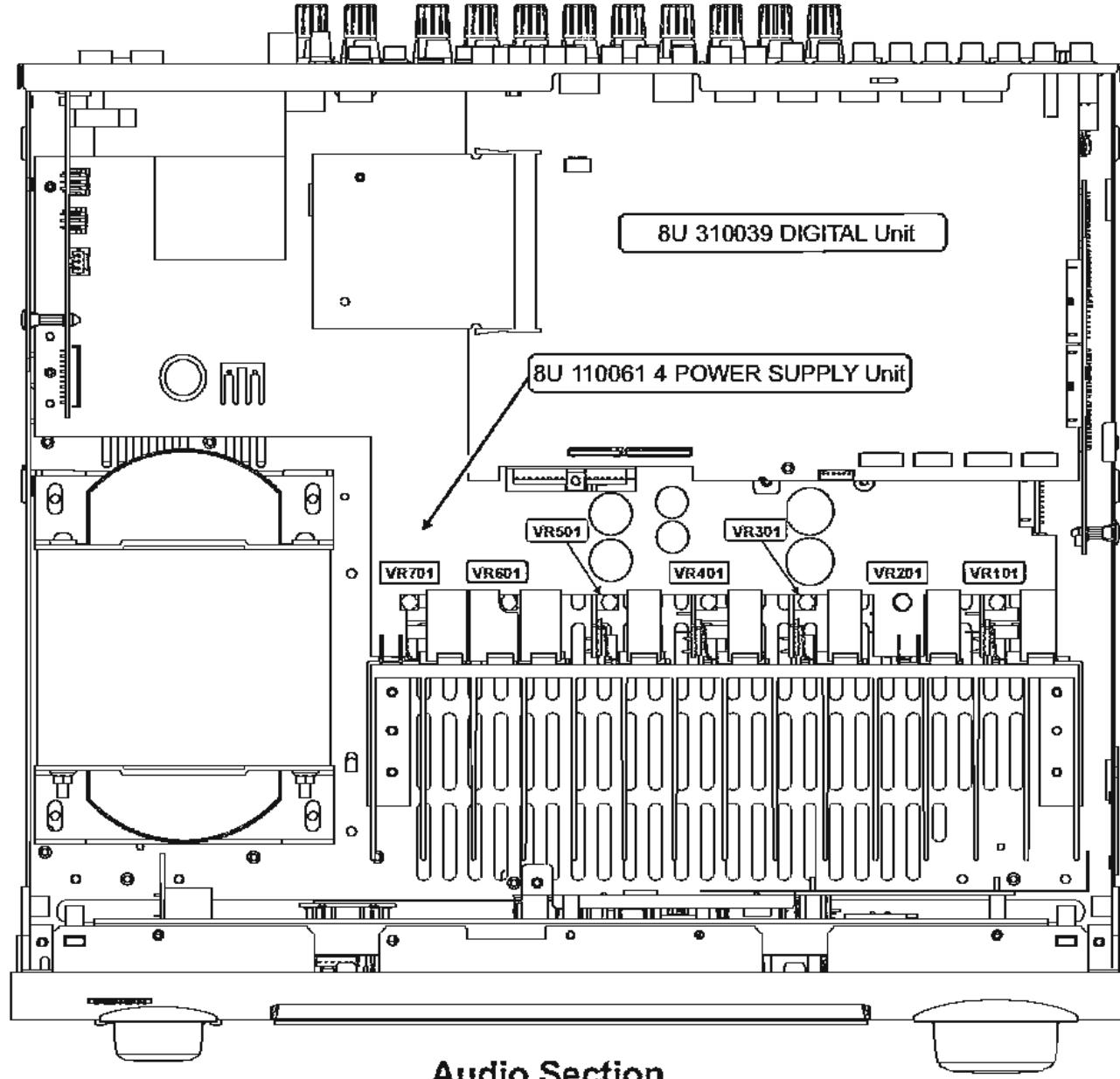
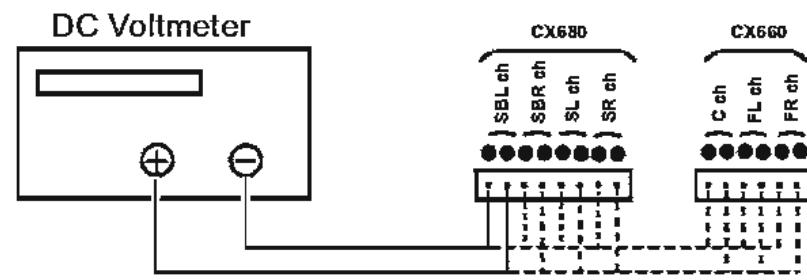
(5) Allow 2 minutes, and turn VR101 clockwise (○) to adjust the TEST POINT voltage to 8 mV ± 0.5 mV DC.

(6) After 10 minutes from preset, turn VR101 to set the voltage to 8 mV ± 0.5 mV DC.

(7) Adjust the Variable Resistors of other channels in the same way.

(8) After 5 minutes from (6), turn VR101 to set the voltage to 8 mV ± 0.5 mV DC.

(9) Adjust the Variable Resistors of other channels in the same way.



Adjustment volume is set for 8U-110062-1 ~ 7. The test point is at 8U-110063-3.

Insert an adjustment driver / connection terminal from an adjustment aperture of 8U-110061-4(POWER SUPPLY Unit)P.W.B..

SURROUND MODES AND PARAMETERS

Surround Modes and Parameters

Surround Mode	Channel output										Parameter (default values are shown in parentheses)						
	Front L/R	Center	Surround L/R	Surround Back L/R	Subwoofer	Front Wide L/R	Front Height L/R	D. COMP *1	DRC *2	LFE *3	A.FDM	Surround Back	Cinema EQ.	Mode	Room Size	Effect Level	
PURE DIRECT, DIRECT (2ch)	○	×	×	×	○ *4	×	×	○ (OFF)	○ (Auto)	○ (0 dB)	×	×	×	×	×	×	
DSD DIRECT	○	○	○	○	○	○	○	○ (OFF)	×	○ (0 dB)	×	×	×	×	×	×	
DSD MULTI DIRECT	○	○	○	○	○	○	○	○ (OFF)	○ (Auto)	○ (0 dB)	○ (ON)	○ (OFF)	○ (ON, 10)	○ (ON)	×	×	
MULTI CH DIRECT	○	○	○	○	○	○	○	○ (OFF)	○ (Auto)	○ (0 dB)	×	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	×	×
STEREO	○	○	×	○	○	○	○	○ (OFF)	○ (Auto)	○ (0 dB)	×	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	×	×
EXT IN	○	○	○	○	○	○	○	○ (OFF)	○ (Auto)	○ (0 dB)	×	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	×	×
MULTI CH IN	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
WIDE SCREEN	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
DOLBY PRO LOGIC IIz	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
DOLBY PRO LOGIC IX	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
DOLBY PRO LOGIC II	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
DTS NEO:6	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
DOLBY DIGITAL	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
DOLBY DIGITAL Plus	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
DOLBY TrueHD	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
DTS SURROUND	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
DTS 96/24	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
DTS-HD	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
DTS EXPRESS	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
neural	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
7CH STEREO	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
SUPER STADIUM	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
ROCK ARENA	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
JAZZ CLUB	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
CLASSIC CONCERT	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
MONO MOVIE	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
VIDEO GAME	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
MATRIX	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)
VIRTUAL	○	○	○	○	○	○	○	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (NOTE4)	○ (OFF)	○ (OFF)	○ (ON)	○ (ON)	○ (ON)	○ (ON)

○ : Signal / Adjustable
× : No signal / Not adjustable

○ : Turned on or off by speaker configuration setting
NOTE1 : This parameter is available when the "Mode" is set to "Cinema" (page 73).
NOTE2 : This parameter is available when the "Mode" is set to "Cinema" or "Pro Logic" (page 73).
NOTE3 : This parameter is available when the "Front Height" is set to "ON" or "DSX" is set to "ON" (page 74, 76).
NOTE4 : This parameter is available when the "DSX" is set to "ON" (page 76).

NOTE:

*1 : When playing Dolby Digital and DTS signals.
*2 : When playing Dolby TrueHD signal.
*3 : When playing Dolby Digital, DTS, DVDAudio and Super Audio CD.
*4 : When the "Subwoofer Mode" is set to "LFE+Main" (page 35) only.

Surround Mode	Parameter (default values are shown in parentheses)											
	Delay Time	Subwoofer	Front Height	PRO LOGIC IIx MUSIC mode only	NEO:6 MUSIC mode only	EXT. IN only	Tone Control	MultEQ XT	Dynamic EQ	Dynamic Volume	RESTORER	DSX
PURE DIRECT, DIRECT (2ch)	X	O	X	X	X	X	X	X	X	X	X	X
DSD DIRECT	X	X	X	X	X	X	X	X	X	X	X	X
DSD MULTI DIRECT	X	X	X	X	X	X	X	X	X	X	X	X
MULTI CH DIRECT	X	X	X	X	X	X	X	X	X	X	X	X
STEREO	X	X	X	X	X	X	X	X	X	X	X	X
EXT. IN	X	X	X	X	X	X	X	X	X	X	X	X
MULTI CH IN	X	X	X	X	X	X	X	X	X	X	X	X
WIDE SCREEN	X	X	X	X	X	X	X	X	X	X	X	X
DOLBY PRO LOGIC II	X	X	X	X	X	X	X	X	X	X	X	X
DOLBY PRO LOGIC IIx	X	X	X	X	X	X	X	X	X	X	X	X
DOLBY PRO LOGIC II	X	X	X	X	X	X	X	X	X	X	X	X
DTS NEO:6	X	X	X	X	X	X	X	X	X	X	X	X
DOLBY DIGITAL	X	X	X	X	X	X	X	X	X	X	X	X
DOLBY DIGITAL Plus	X	X	X	X	X	X	X	X	X	X	X	X
DOLBY TrueHD	X	X	X	X	X	X	X	X	X	X	X	X
DTS SURROUND	X	X	X	X	X	X	X	X	X	X	X	X
DTS 96/24	X	X	X	X	X	X	X	X	X	X	X	X
DTS-HD	X	X	X	X	X	X	X	X	X	X	X	X
DTS EXPRESS	X	X	X	X	X	X	X	X	X	X	X	X
neutral	X	X	X	X	X	X	X	X	X	X	X	X
7CH STEREO	X	X	X	X	X	X	X	X	X	X	X	X
SUPER STADIUM	X	X	X	X	X	X	X	X	X	X	X	X
ROCK ARENA	X	X	X	X	X	X	X	X	X	X	X	X
JAZZ CLUB	X	X	X	X	X	X	X	X	X	X	X	X
CLASSIC CONCERT	X	X	X	X	X	X	X	X	X	X	X	X
MONO MOVIE	X	X	X	X	X	X	X	X	X	X	X	X
VIDEO GAME	X	(30 ms)	X	X	X	X	X	X	X	X	X	X
MATRIX	X	X	X	X	X	X	X	X	X	X	X	X
VIRTUAL	X	X	X	X	X	X	X	X	X	X	X	X

○ : Signal / Adjustable
 X : No signal / Not adjustable
 NOTE5 : BASS +6 dB, TREBLE 0 dB
 NOTE6 : BASS +6 dB, TREBLE +4 dB

Button	Surround Mode	Note	Analog	Linear PCM / WAV	WMA (Windows Media Audio) / MP3 / MPEG-4 AAC / FLAC	DTS-HD		DTS		DOLBY DIGITAL		MULTI CH PCM		Super Audio CD			
						DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS	DTS 96/24	DTS ES MTRX (With Flag)	DTS ES DSCRT (With Flag)	DOLBY DIGITAL Plus	DOLBY DIGITAL	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (4/3ch)	DSD (multi ch)
	DTS SURROUND					x x x x x x x x x x x x o o		x x x x x x x x x x		x	x	o o o o o o o o o x					
	DTS-HD MSTR	*1				x x x x x x x x x x x x x x		x x x x x x x x x x		x	x	x x x x x x x x x x					
	DTS ES DSCRT6.1	*1				x x x x x x x x x x x x x x		x x x x x x x x x x		x	x	x x x x x x x x x x					
	DTS ES MTRX6.1					x x x x x x x x x x x x x x		x x x x x x x x x x		x	x	x x x x x x x x x x					
	DTS SURROUND					x x x x x x x x x x x x x x		x x x x x x x x x x		x	x	x x x x x x x x x x					
	DTS 96/24					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DTS (-HD) + PLIIx CINEMA	*2				x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DTS (-HD) + PLIIx MUSIC	*1				x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DTS (-HD) + PLIIx HEIGHT	*3				x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DTS EXPRESS					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DTS (-HD) + NEO:6					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DTS NEO:6 CINEMA					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DTS NEO:6 MUSIC					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY SURROUND					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY TrueHD					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY DIGITAL+					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY DIGITAL EX					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY (D+) (HD) +EX					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY DIGITAL					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY (D) (D+) (HD) +PLIIx CINEMA	*2				x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY (D) (D+) (HD) +PLIIx MUSIC	*1				x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY (D) (D+) (HD) +PLIIx HEIGHT	*3				x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY PRO LOGIC IIx HEIGHT	*3				x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY PRO LOGIC IIx CINEMA	*1				x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY PRO LOGIC IIx MUSIC	*1				x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY PRO LOGIC IIx GAME	*1				x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY PRO LOGIC II CINEMA					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY PRO LOGIC II MUSIC					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY PRO LOGIC II GAME					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	DOLBY PRO LOGIC					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					
	neural					x x x x x x x x x x x x x x		x x o x x o o		x	x	x o o o o o o o o x					

1

NOTE: 1: This mode is not available when the surround back speaker setup is set to "None".
2: This mode is not available when the surround back speaker setup is set to "1spkr" or "None".

This mode is not available when the front height speaker setup is set to "None".

X : Non-selectable mode

Surround Mode		Note	Analog	LINEAR PCM / WAV	WMA (Windows Media Audio) / MP3 / MPEG-4 AAC / FLAC	DTS-HD		DTS		DOLBY		DOLBY DIGITAL		MULTI-PCM		Super Audio CD		
Button						DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS DSCT (With Flag)	DTS ES MTRX (With Flag)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY EX (With Flag)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)	DSD (multi ch)	DSD (2ch)
STANDARD																		
MULTI CH IN	MULTI CH IN	*2																
MULTI IN + PLIIx CINEMA	MULTI IN + PLIIx MUSIC	*1																
MULTI IN + PLIIz HEIGHT	MULTI IN + PLIIz HEIGHT	*3																
MULTI IN + DOLBY EX	MULTI IN + DOLBY EX	*1																
MULTI CH IN 7.1	MULTI CH IN 7.1	*1																
DIRECT	DIRECT																	
DSD DIRECT	DSD DIRECT																	
DSD MULTI DIRECT	MULTI CH DIRECT																	
M DIRECT + PLIIx CINEMA	M DIRECT + PLIIx MUSIC	*2																
M DIRECT + PLIIz HEIGHT	M DIRECT + PLIIz HEIGHT	*1																
M DIRECT + DOLBY EX	M DIRECT + DOLBY EX	*3																
M DIRECT 7.1	M DIRECT 7.1	*1																
PURE DIRECT	PURE DIRECT																	
PURE DIRECT	DSD PURE DIRECT																	
DSD PURE DIRECT	DSD MULTI PURE DIRECT																	
MULTI CH PURE DIRECT	M DIRECT + PLIIx CINEMA																	
M PURE D + PLIIx MUSIC	M PURE D + PLIIz HEIGHT	*2																
M PURE D + PLIIz HEIGHT	M PURE D + DOLBY EX	*1																
M PURE D + DOLBY EX	M CH PURE DIRECT 7.1	*3																
M CH PURE DIRECT 7.1	M CH PURE DIRECT 7.1	*1																

NOTE :
 *1: This mode is not available when the surround back speaker setup is set to "None".
 *2: This mode is not available when the surround back speaker setup is set to "1spkr" or "None".
 *3: This mode is not available when the front height speaker setup is set to "None".

●: Mode selectable in initial status
 ○: Selectable mode
 ×: Non-selectable mode

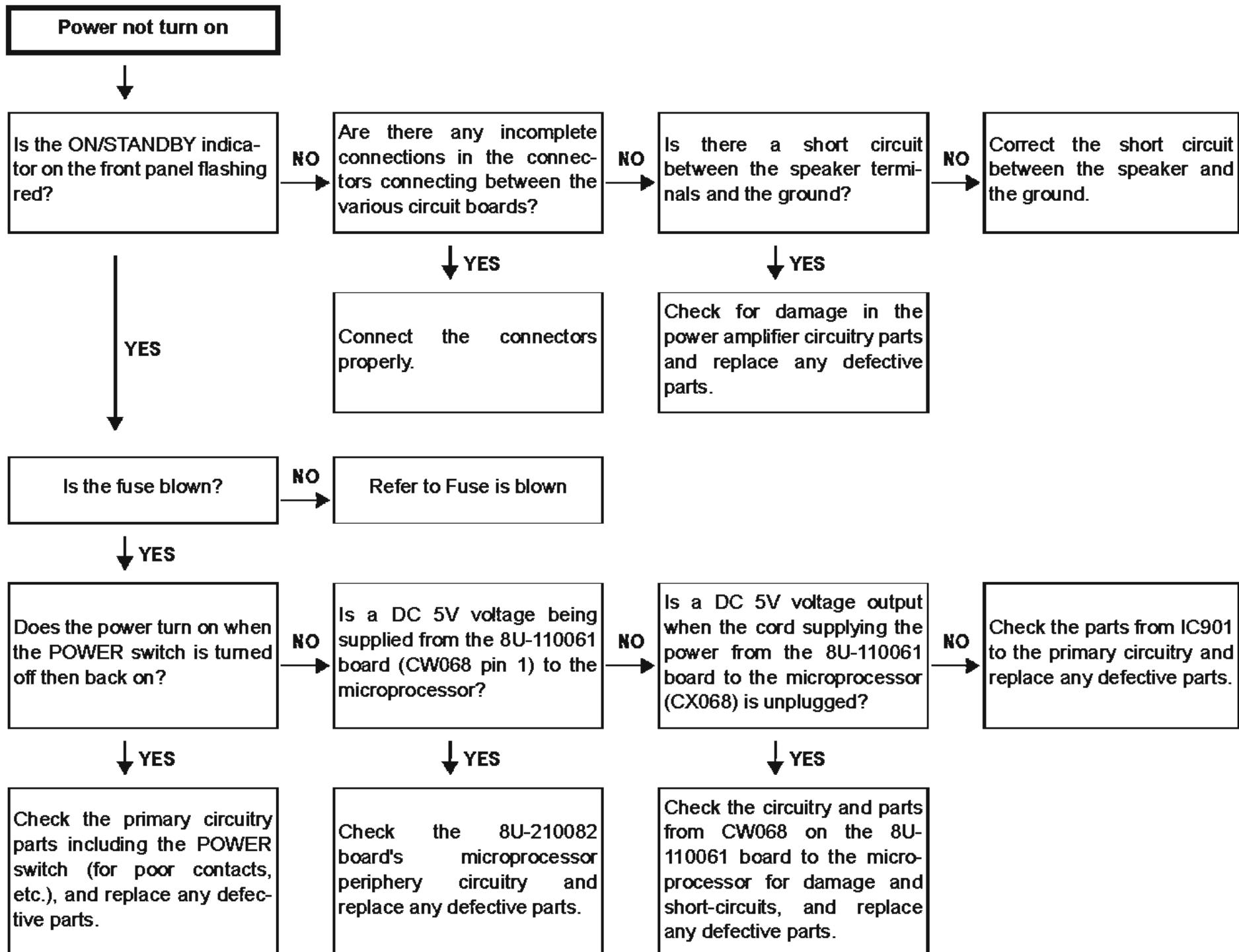
Button		Input signals																					
	Surround Mode	Note	ANALOG	LINEAR PCM / WAV	WMA (Windows Media Audio) / MP3 / MPEG-4 AAC / FLAC	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS	DTS ES DISCRT (With Flag)	DTS ES MATRIX (With Flag)	DTS 96/24	DTS HD	DOLBY DIGITAL Plus	DOLBY DIGITAL	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY EX (With no Flag)	DOLBY EX (With Flag)	DOLBY DIGITAL (2ch)	DOLBY DIGITAL (multi ch)	MULTI CH PCM	Super Audio CD
DSP SIMULATION	*4																						
7CH STEREO																							
WIDE SCREEN																							
SUPER STADIUM																							
ROCK ARENA																							
JAZZ CLUB																							
CLASSIC CONCERT																							
MONO MOVIE																							
VIDEO GAME																							
MATRIX																							
VIRTUAL																							
STEREO																							
STEREO																							

NOTE :
*4 : if the surround back, front wide and front height speaker setup is set to "None," then "5CH STEREO" is displayed.

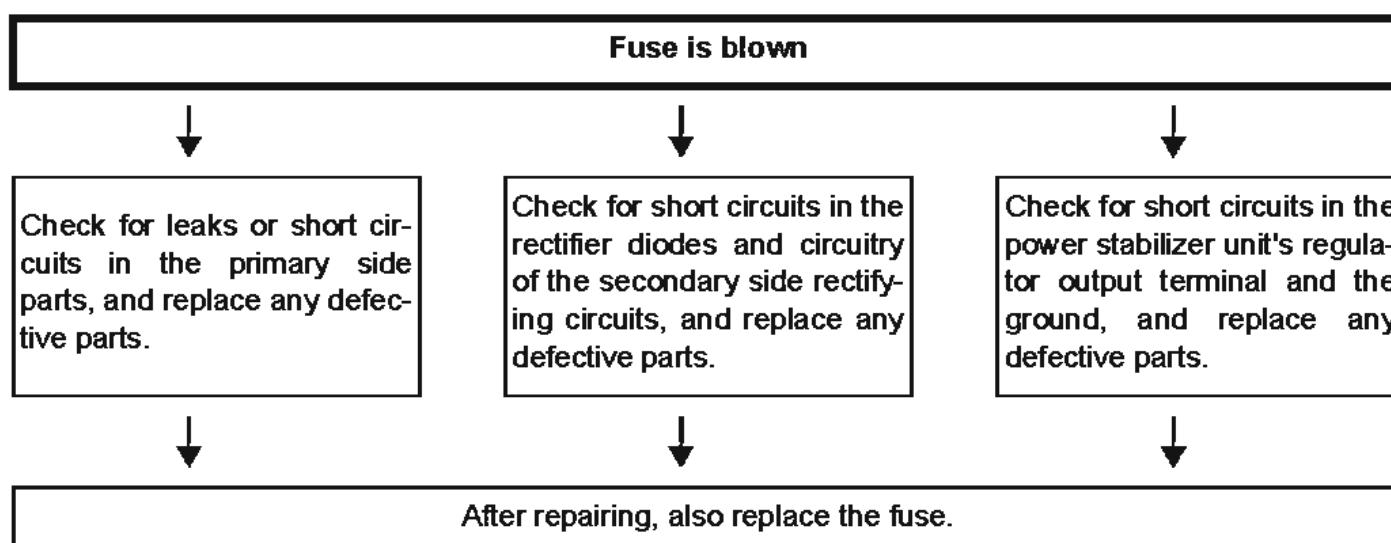
TROUBLE SHOOTING

1. POWER

1.1. Power not turn on

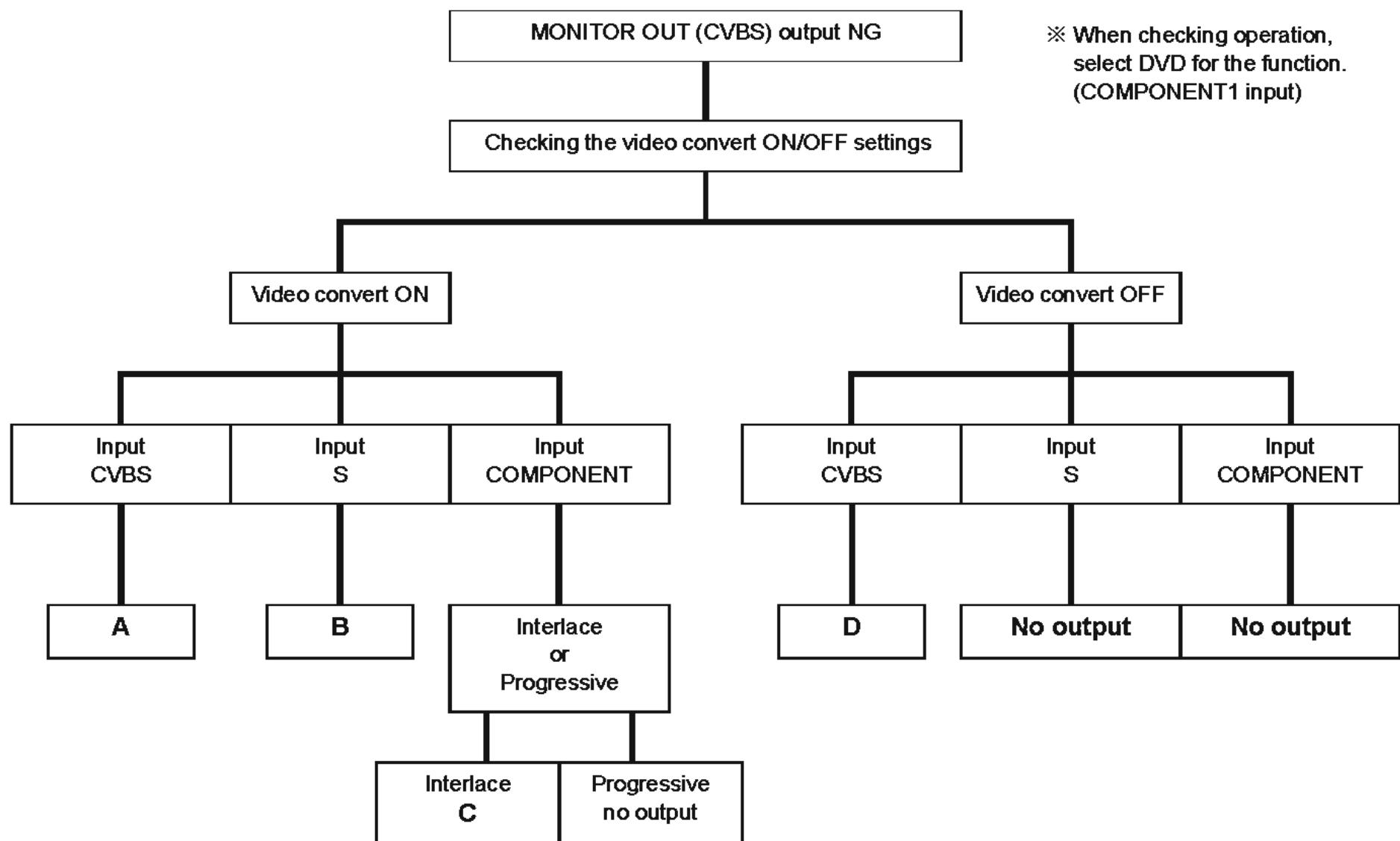


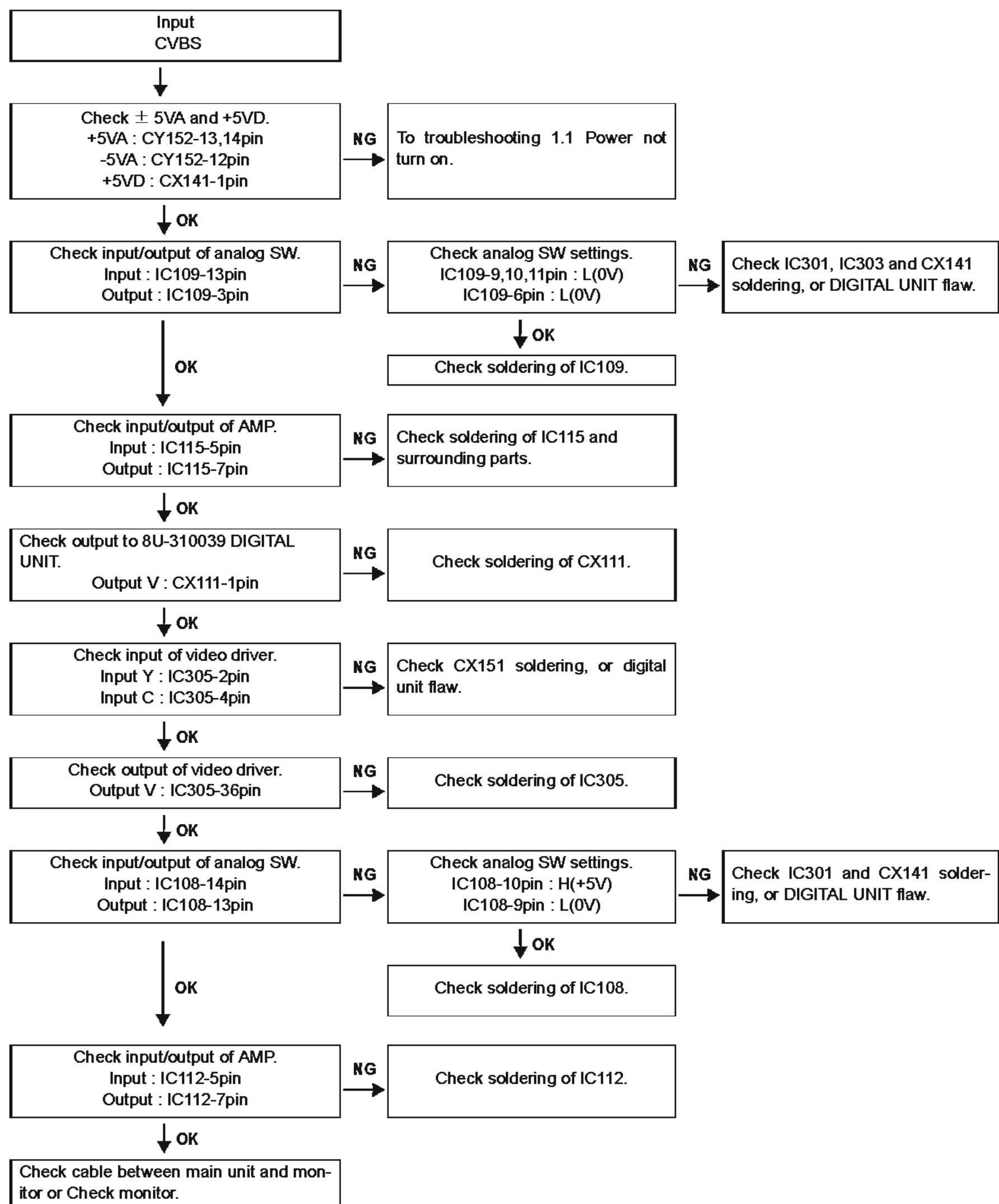
1.2. Fuse is blown



2. Analog video

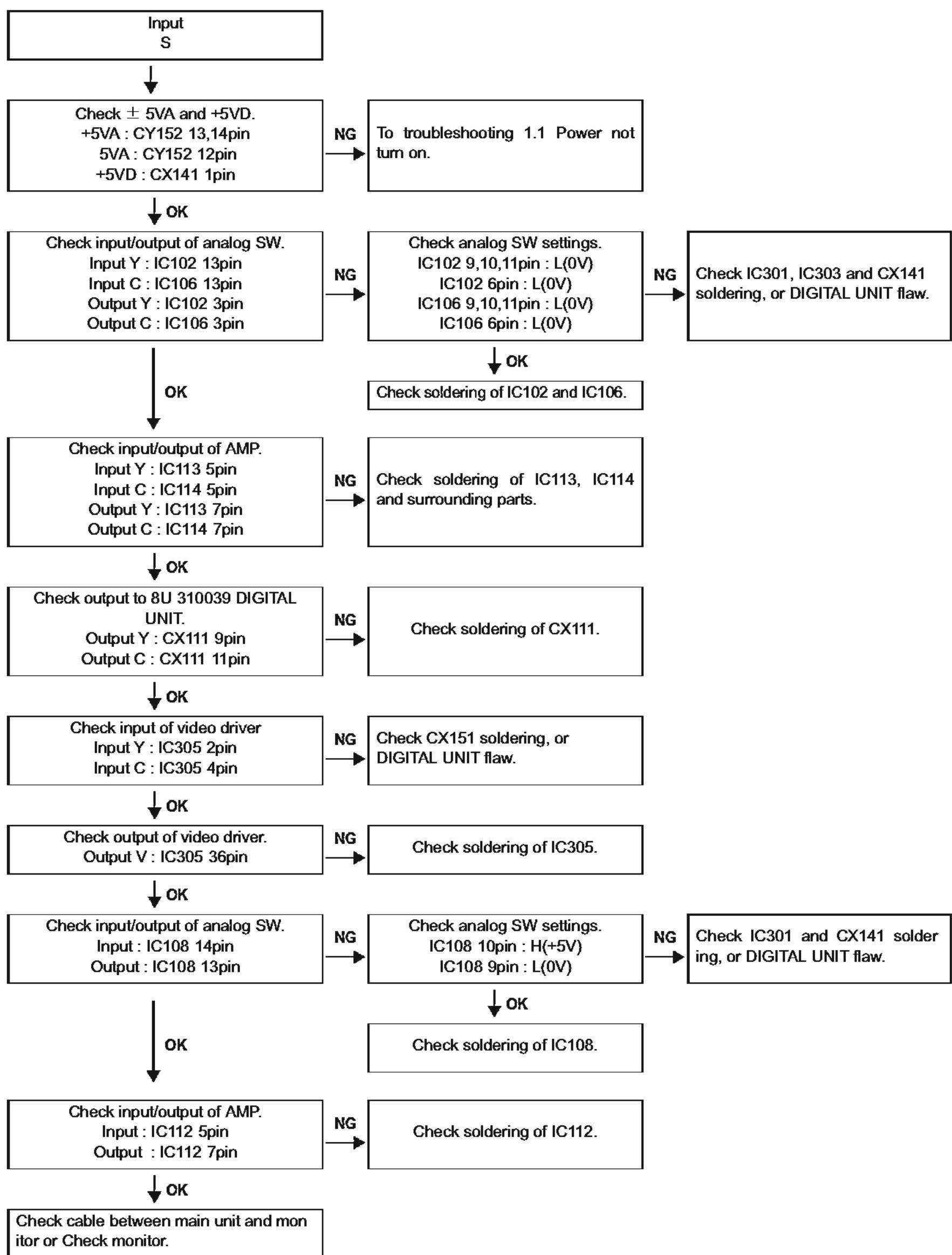
2.1. MONITOR OUT (CVBS) output NG



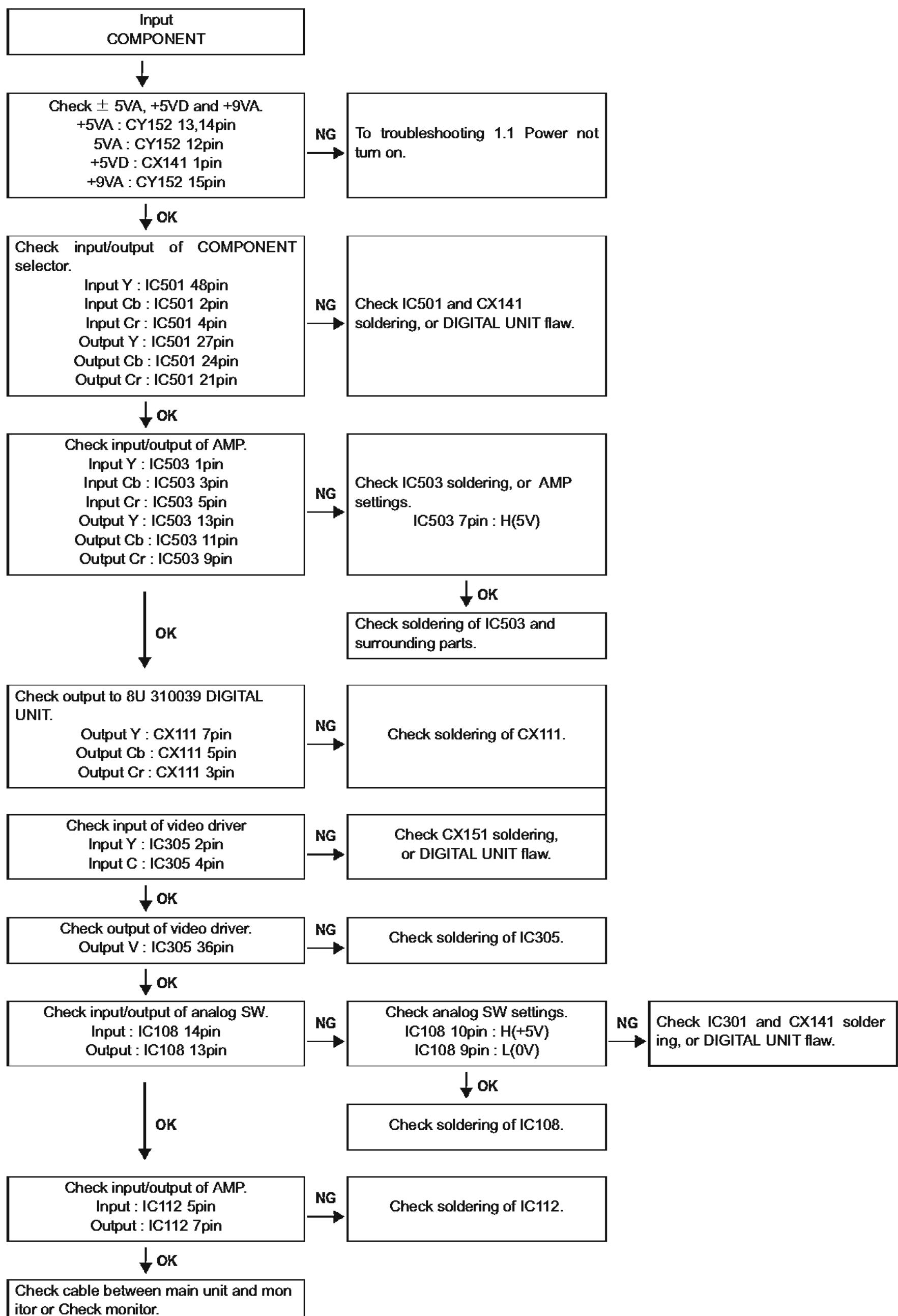
A

※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

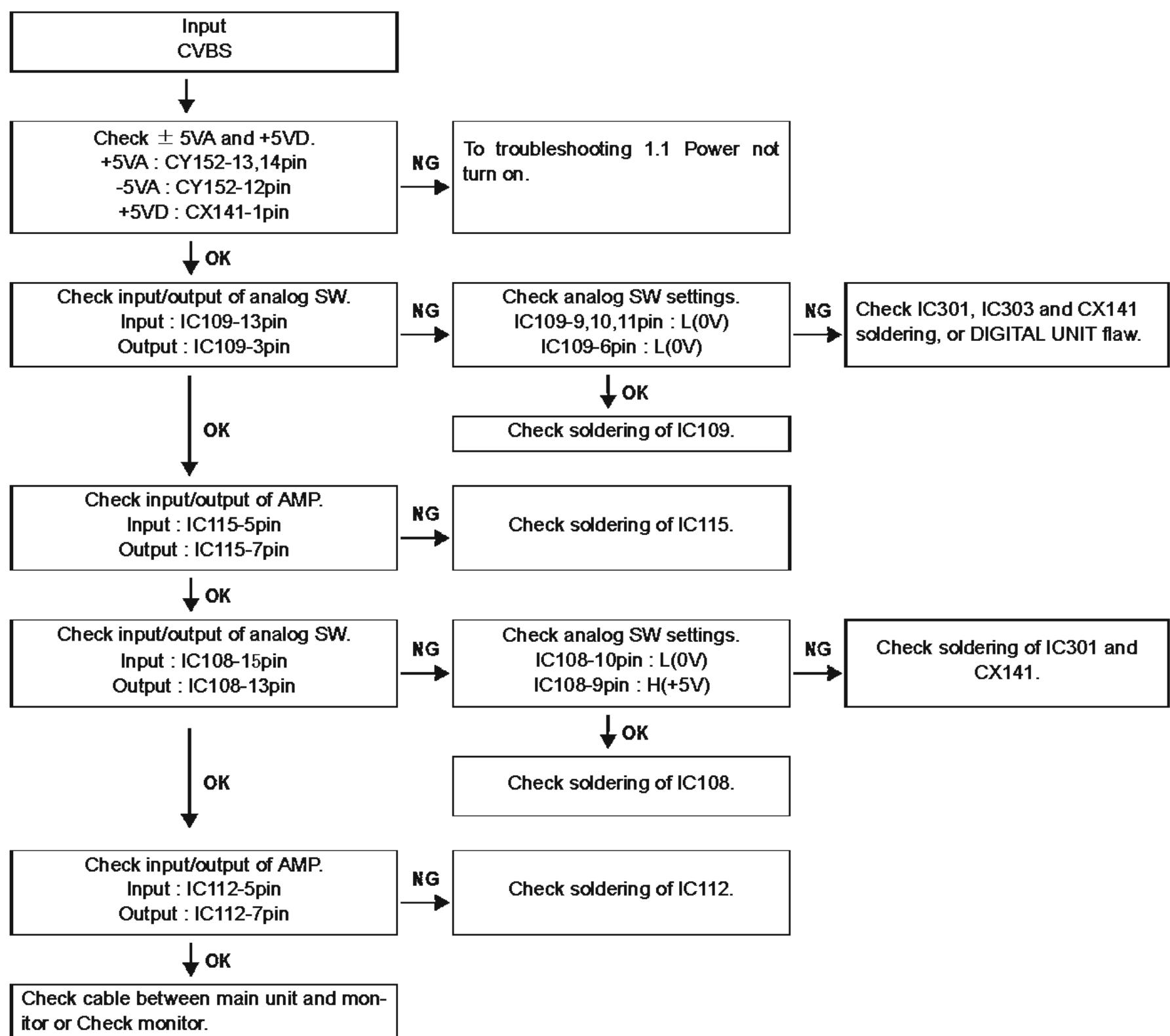
B



※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

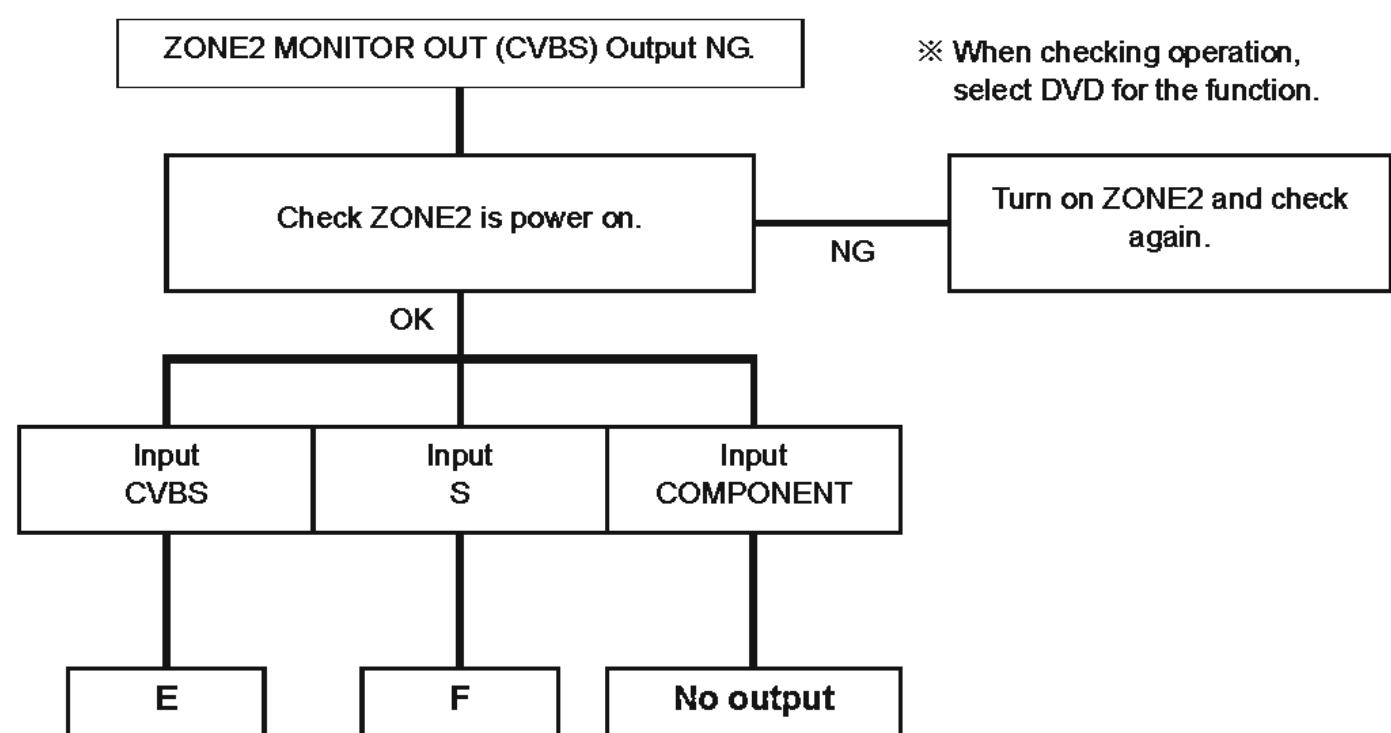
C

D

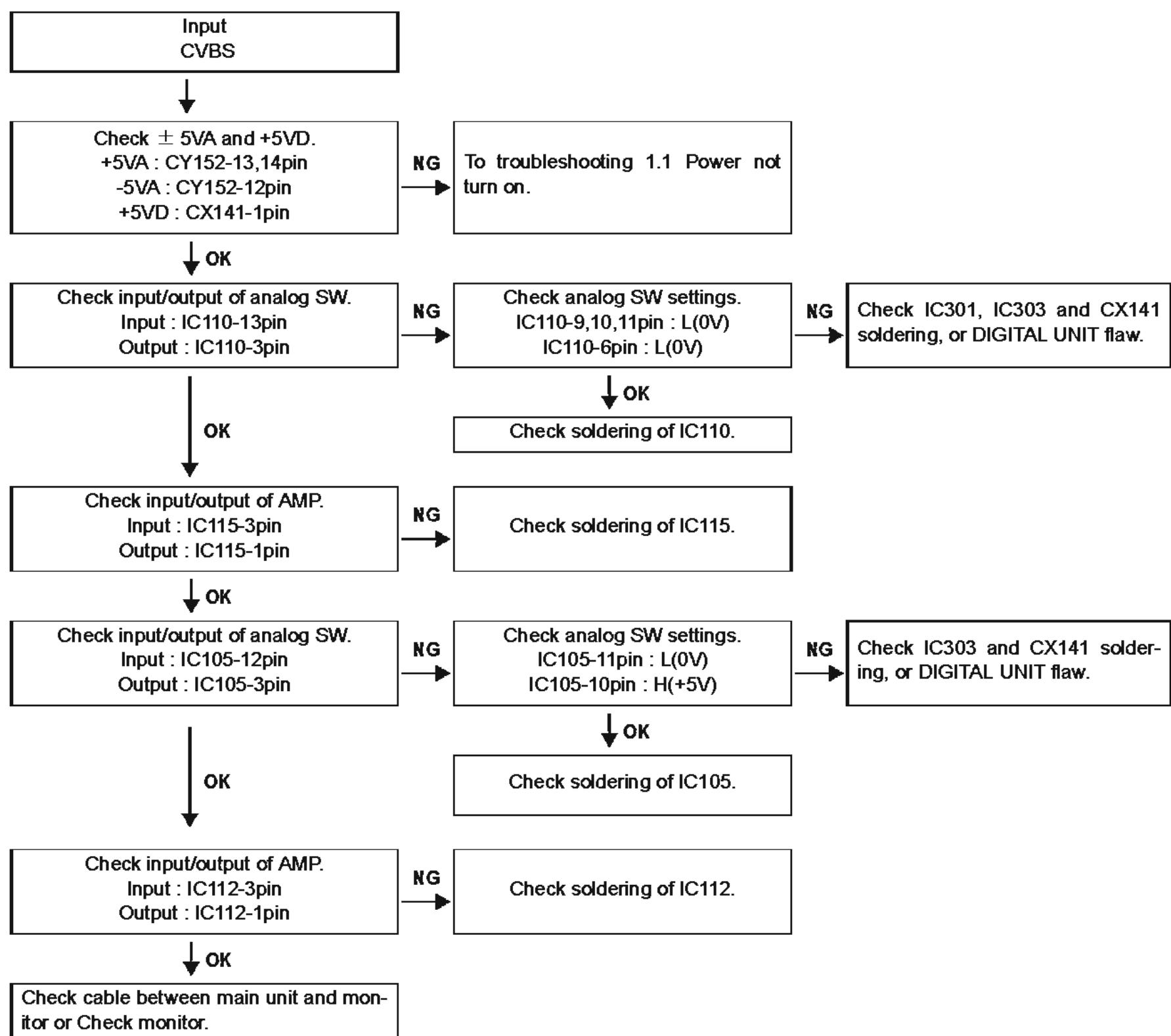


※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

2.2. ZONE2 MONITOR OUT (CVBS) Output NG

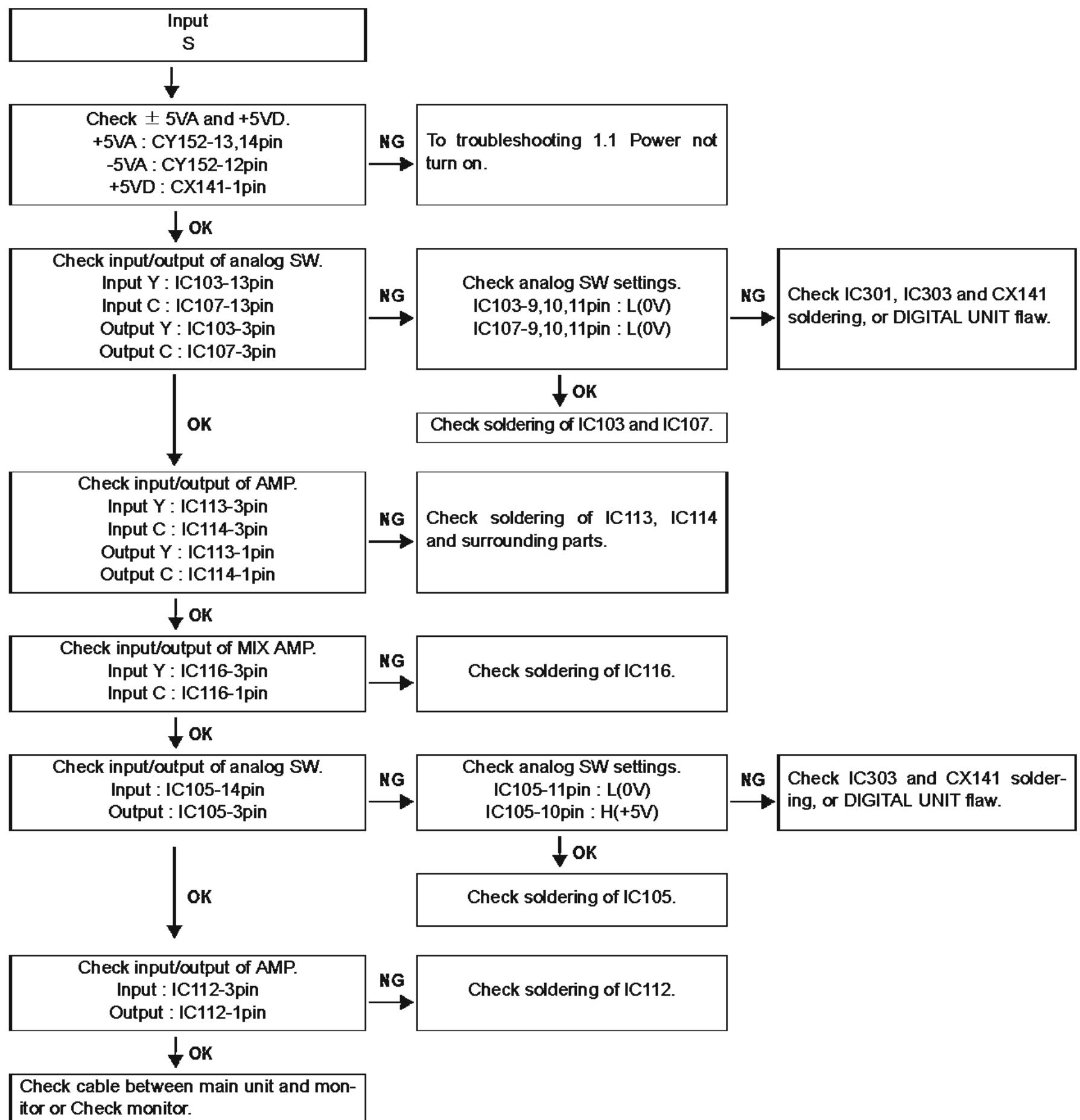


E



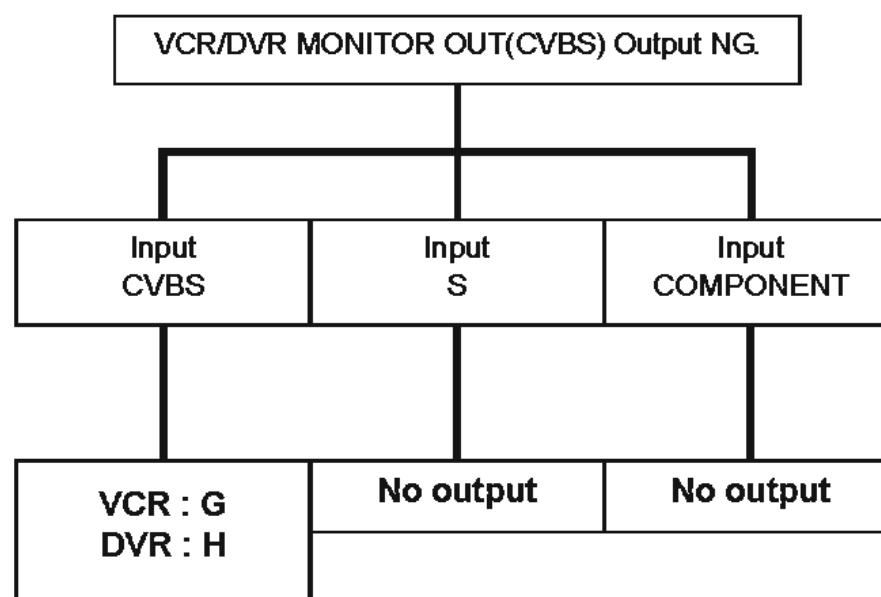
※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

F



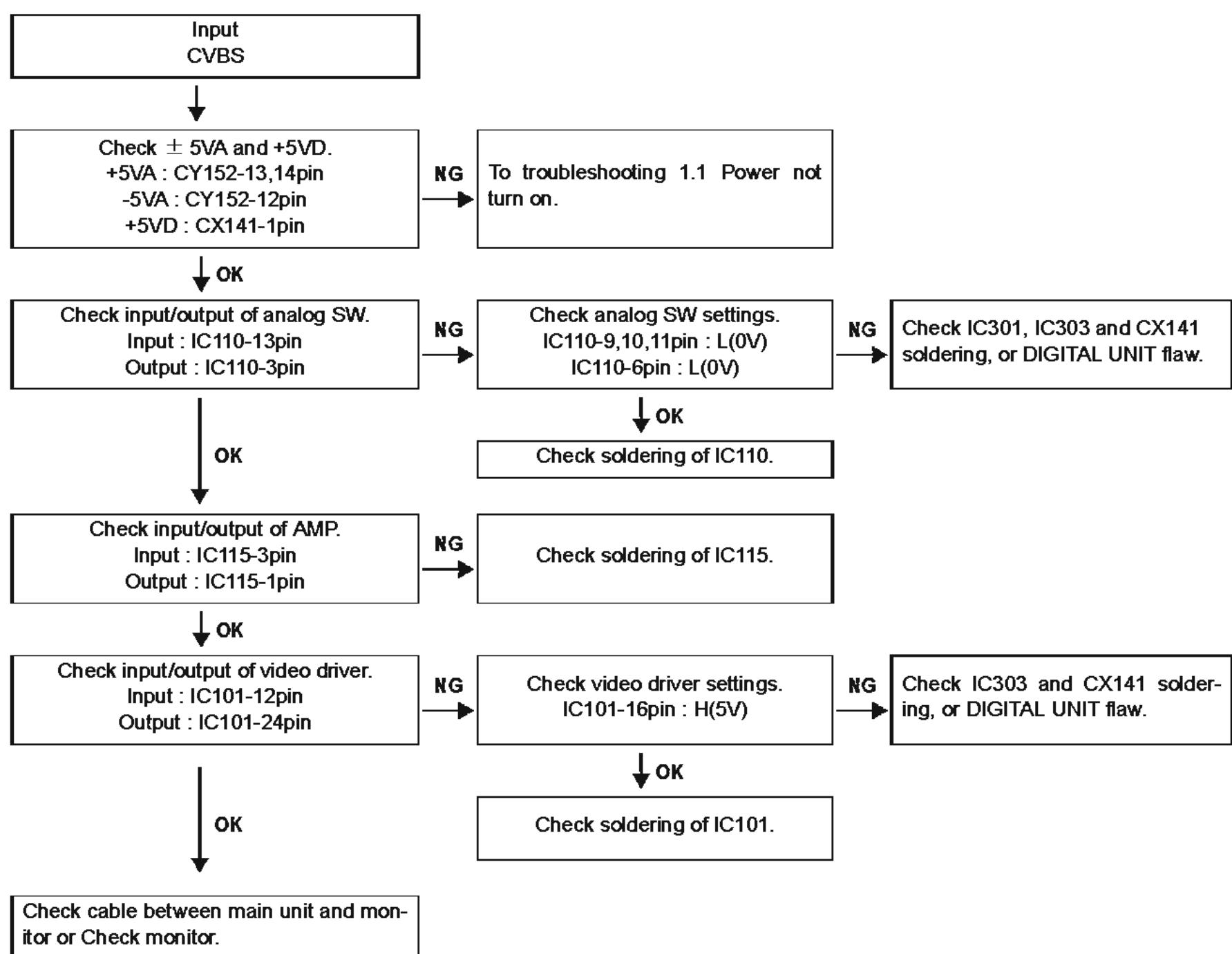
※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

2.3. VCR/DVR MONITOR OUT(CVBS) Output NG



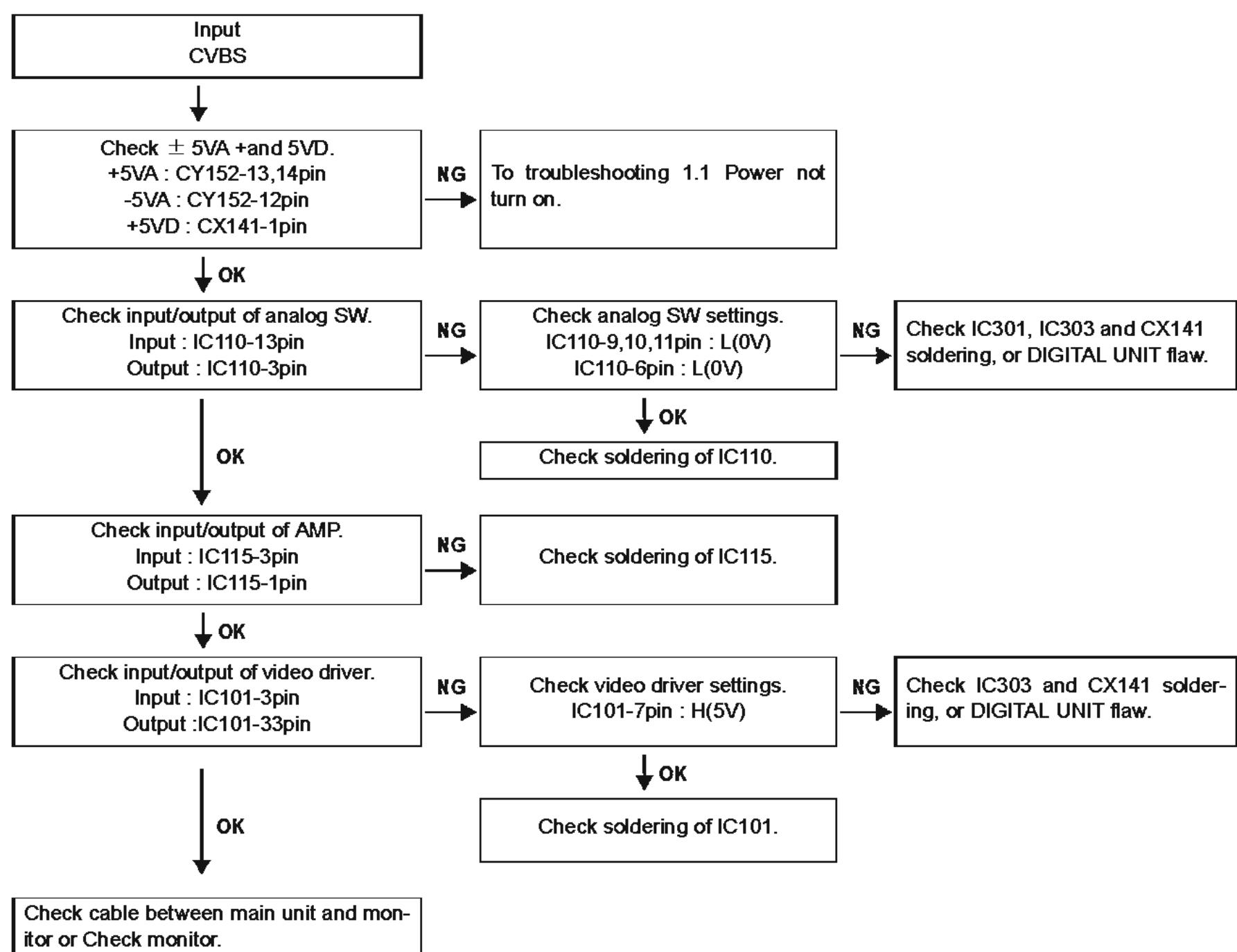
※ When checking operation,
select DVD for the function.

G



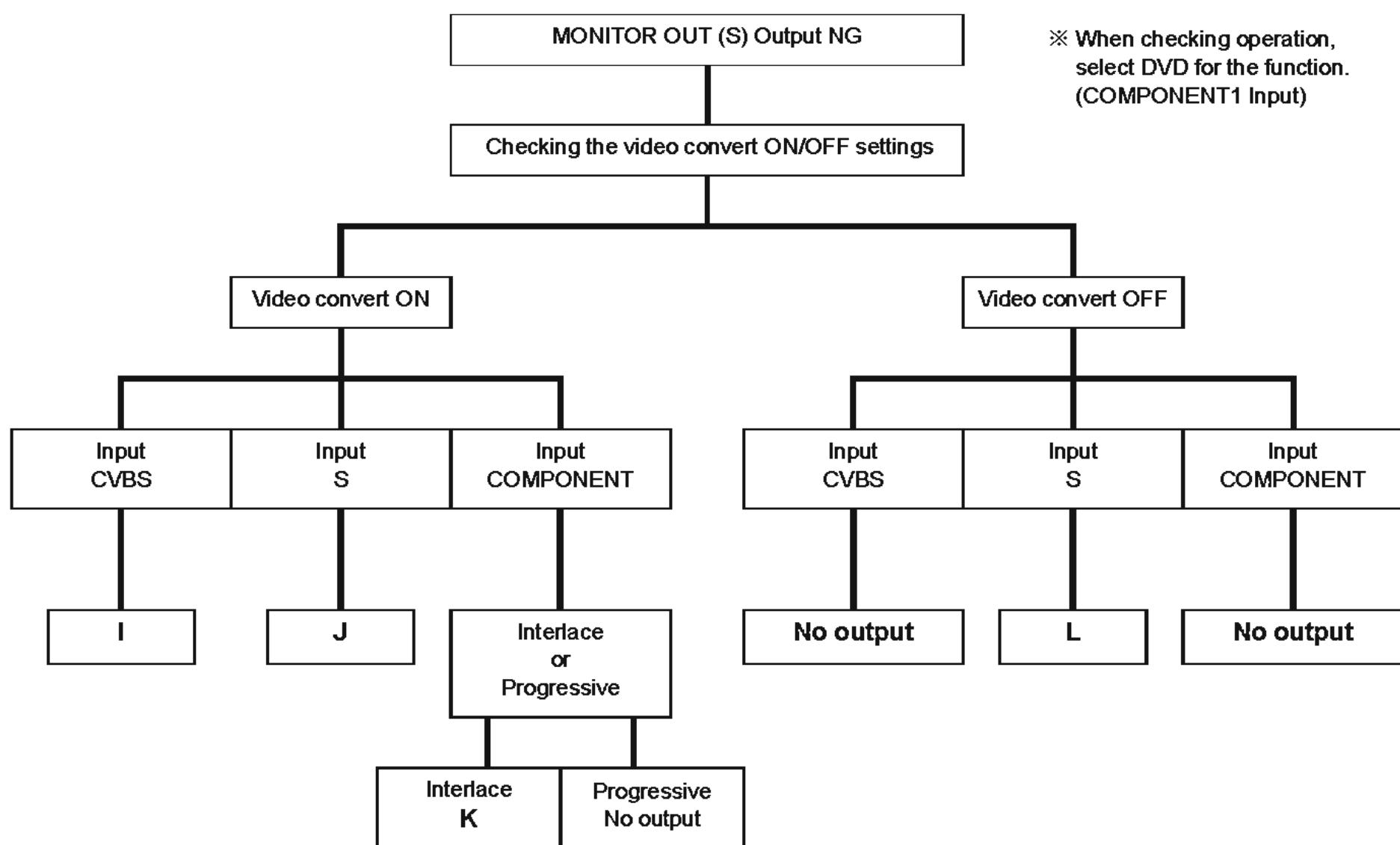
※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

H

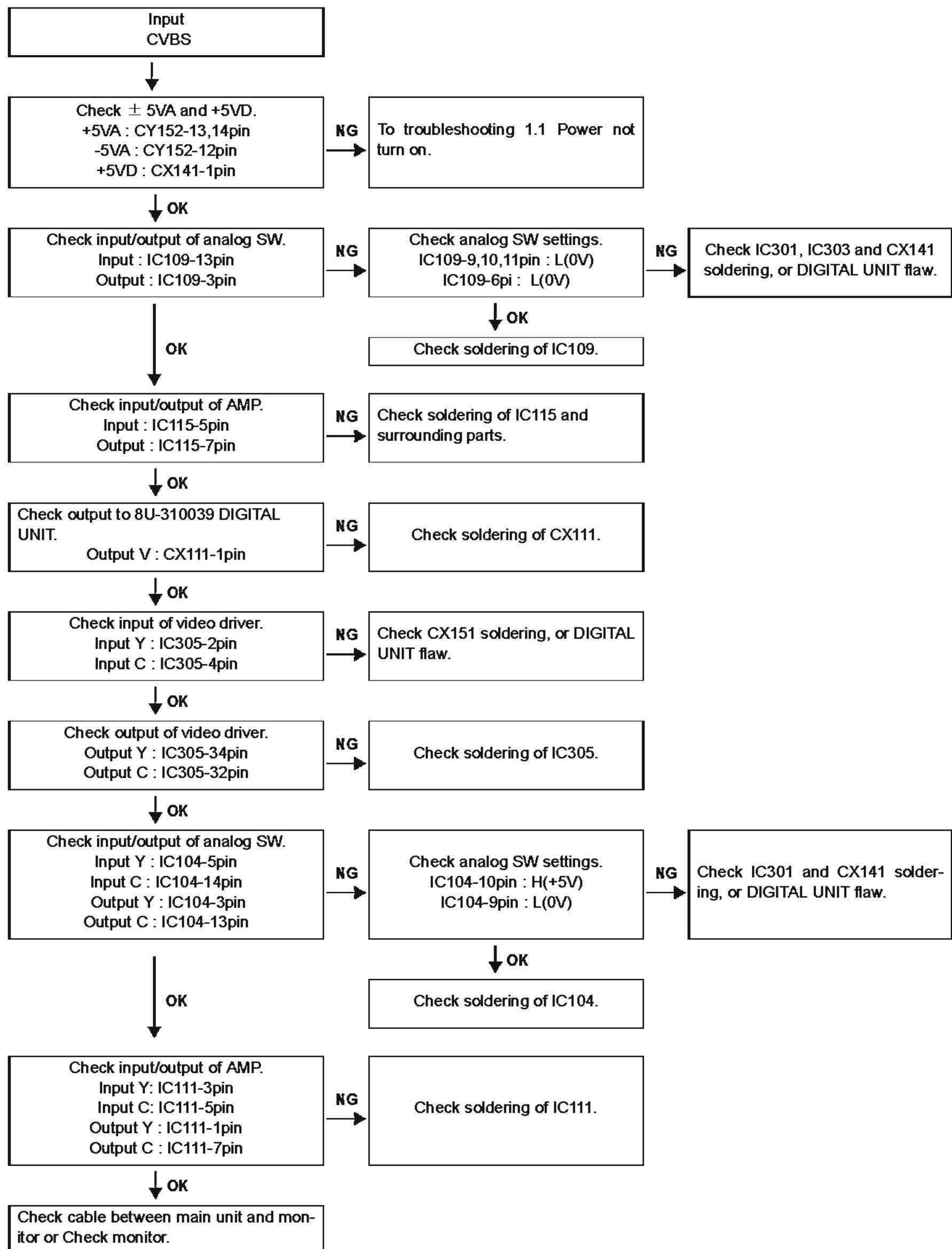


※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

2.4. MONITOR OUT (S) Output NG

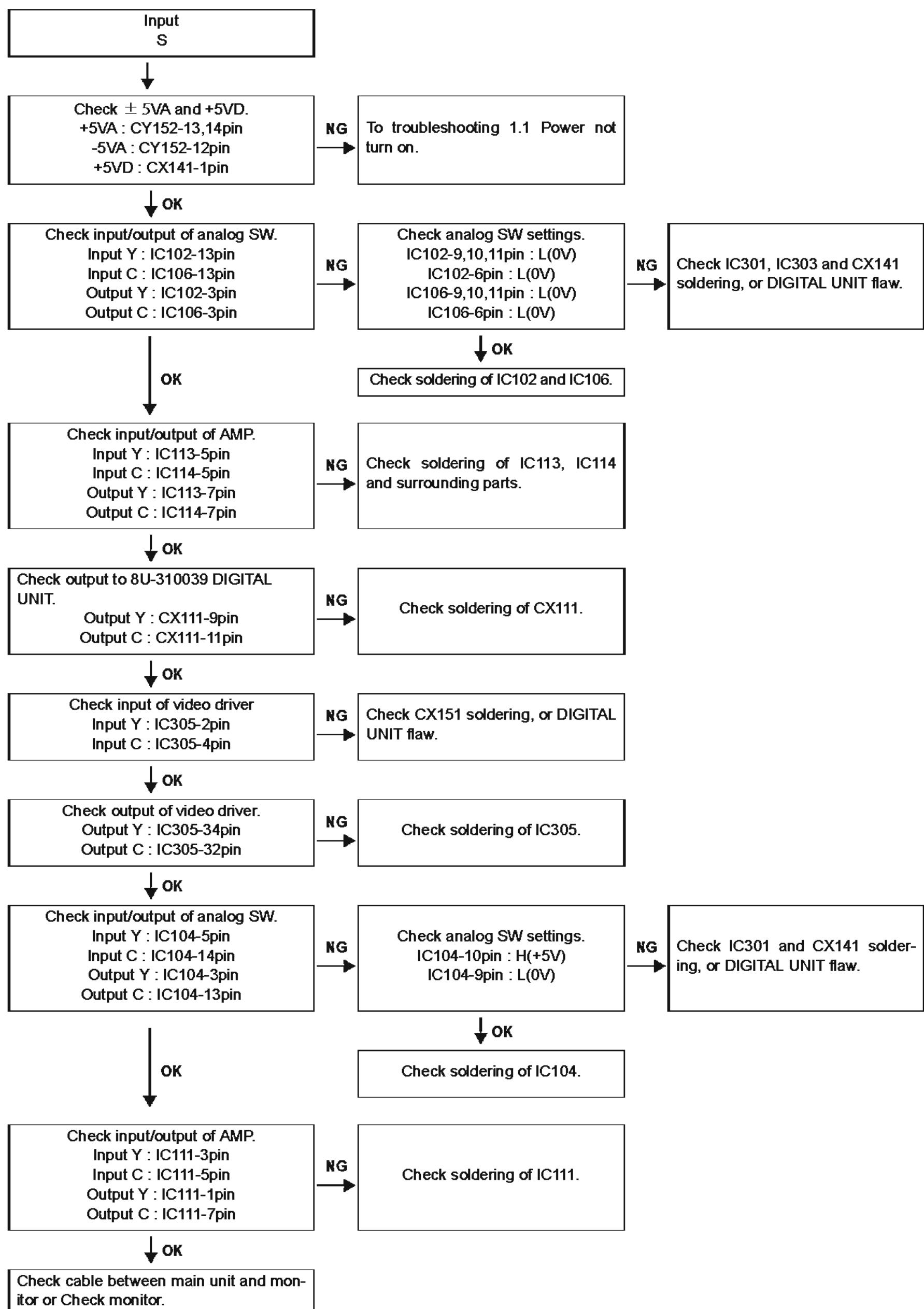


I



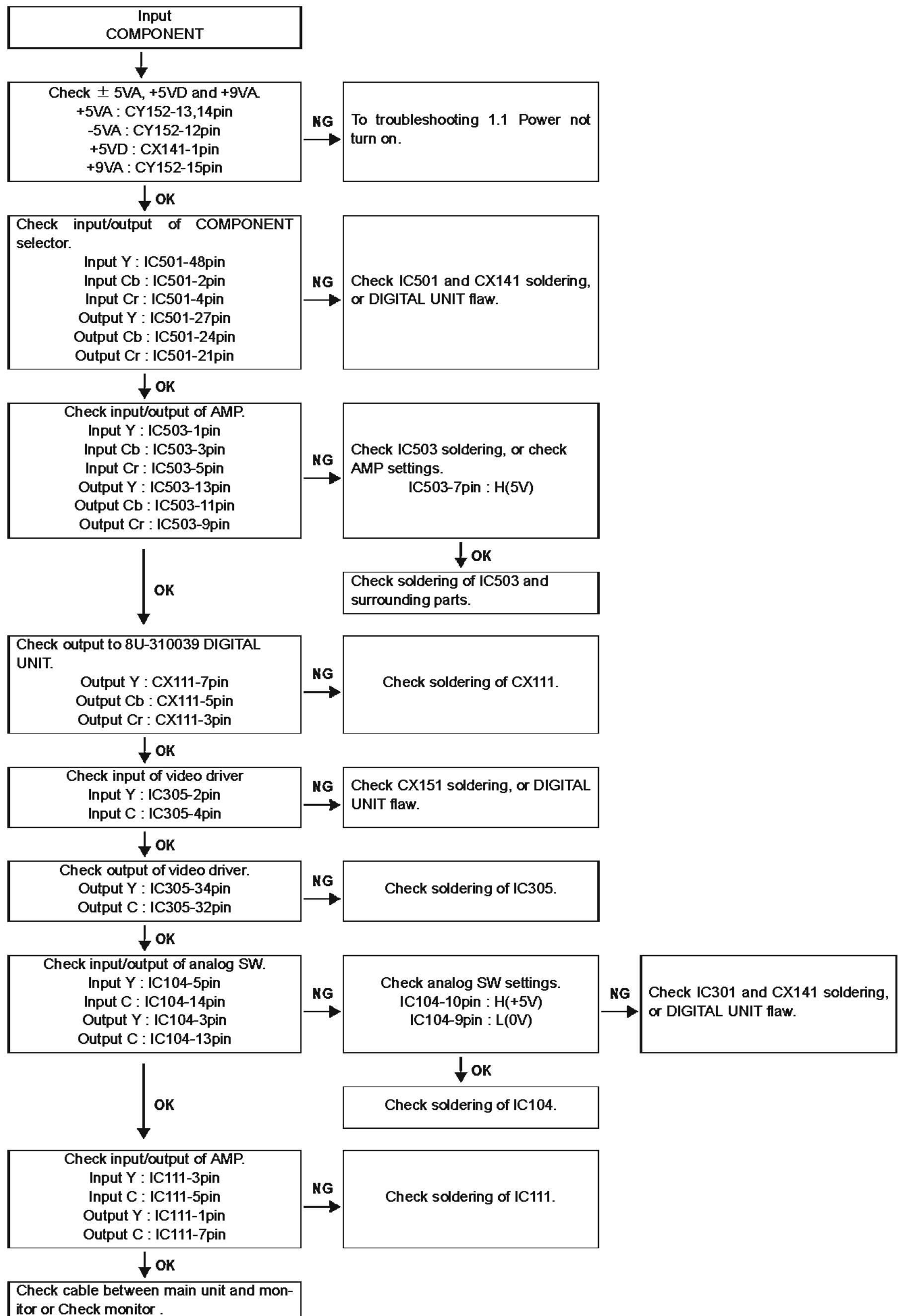
※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

J



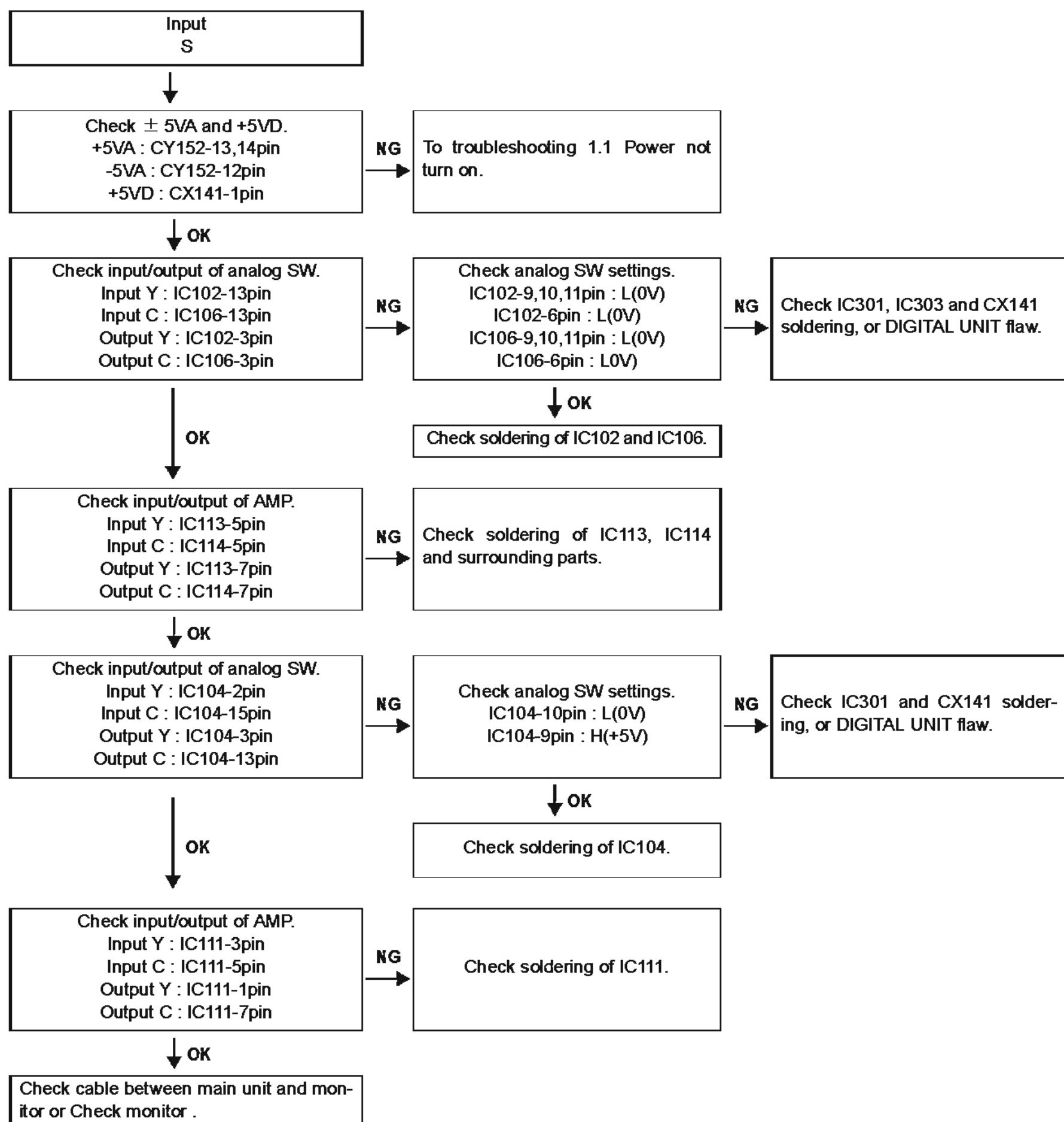
※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

K



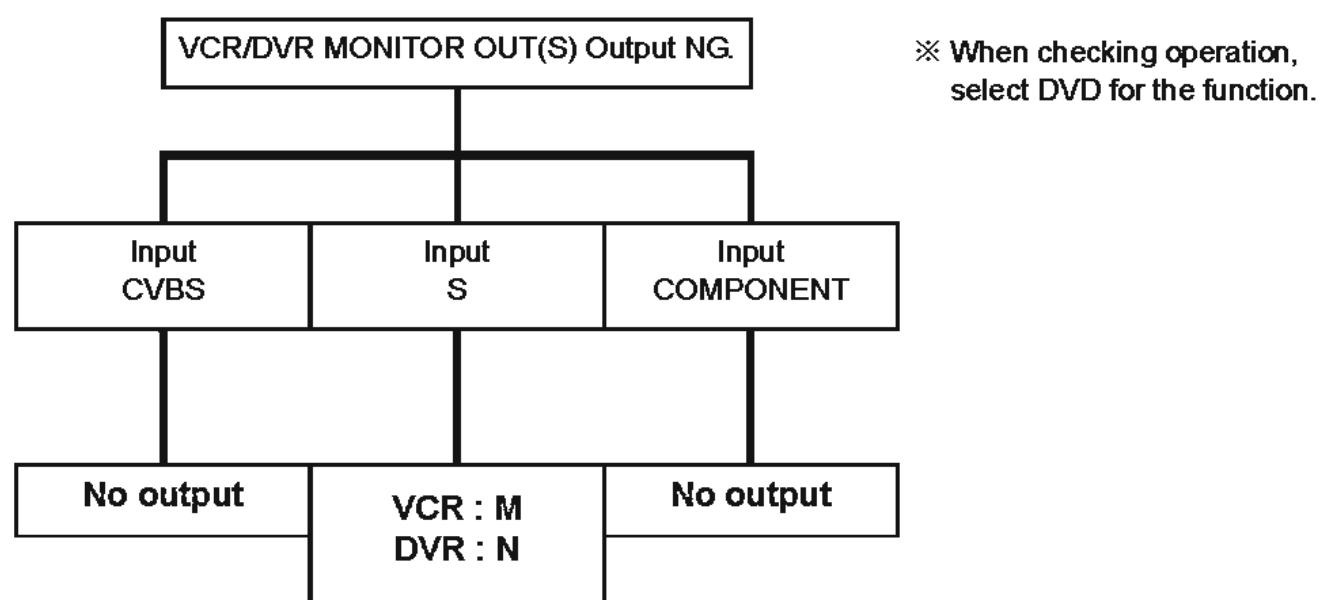
※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

L

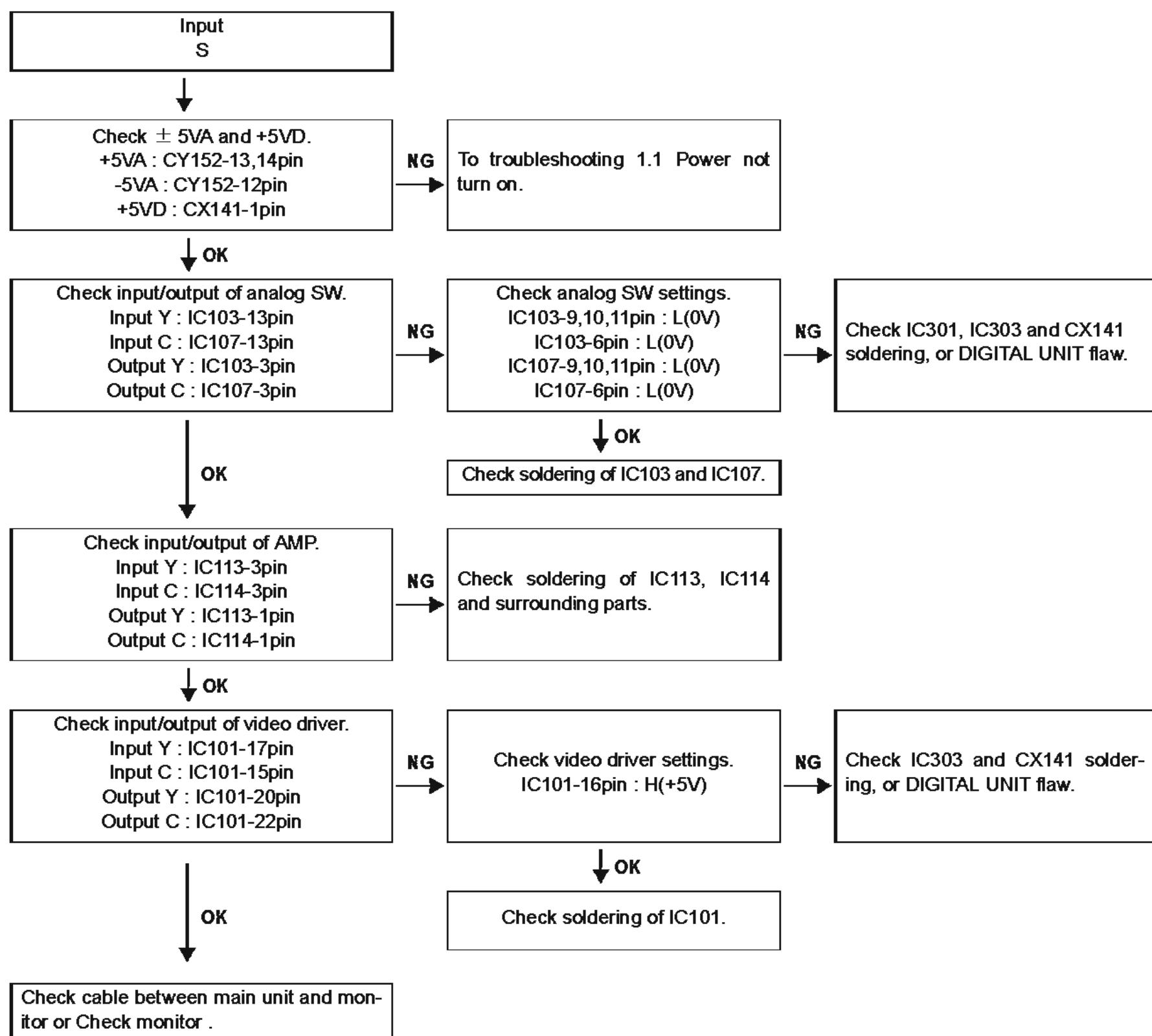


※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

2.5. VCR/DVR MONITOR OUT(S) Output NG

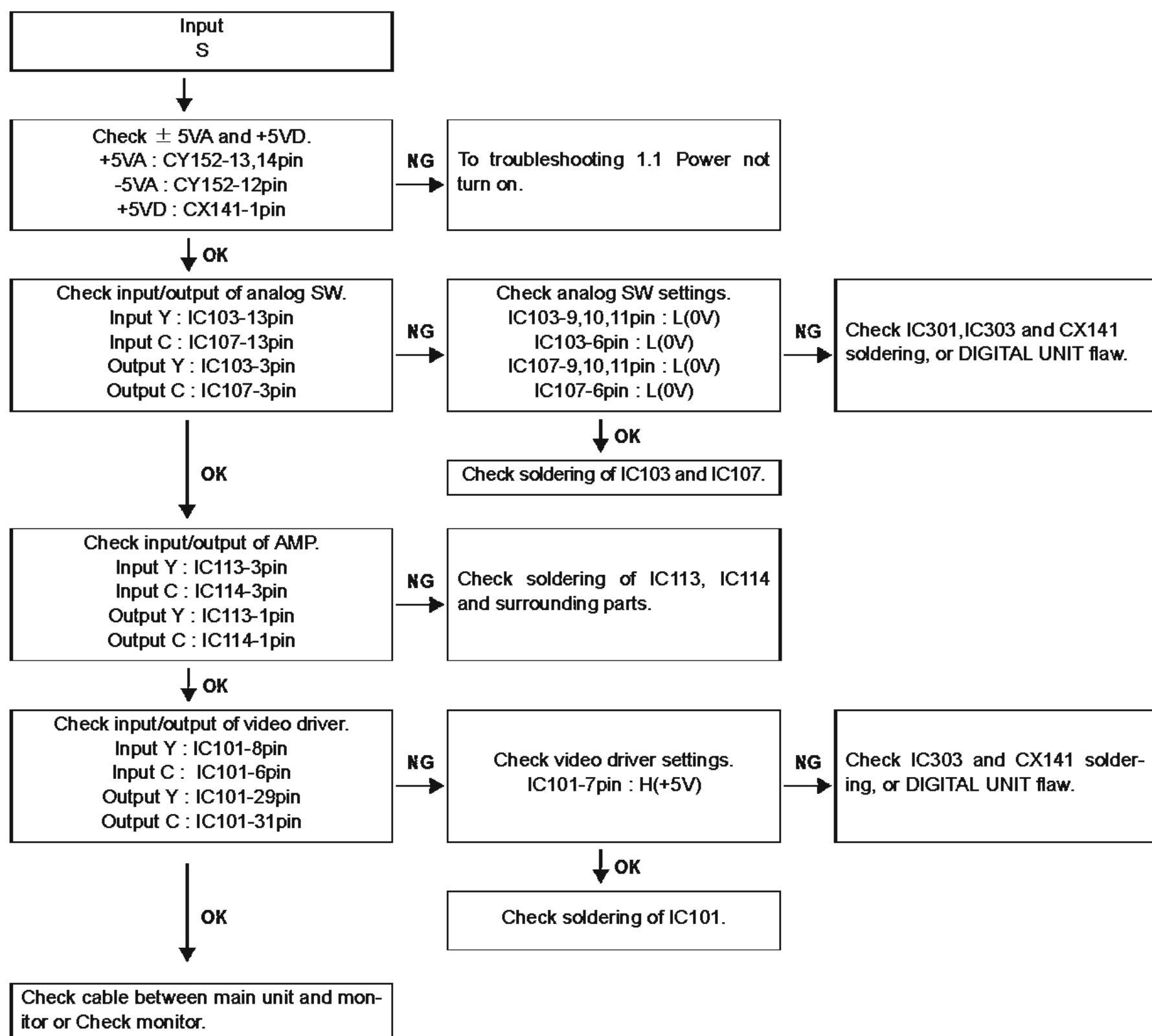


M



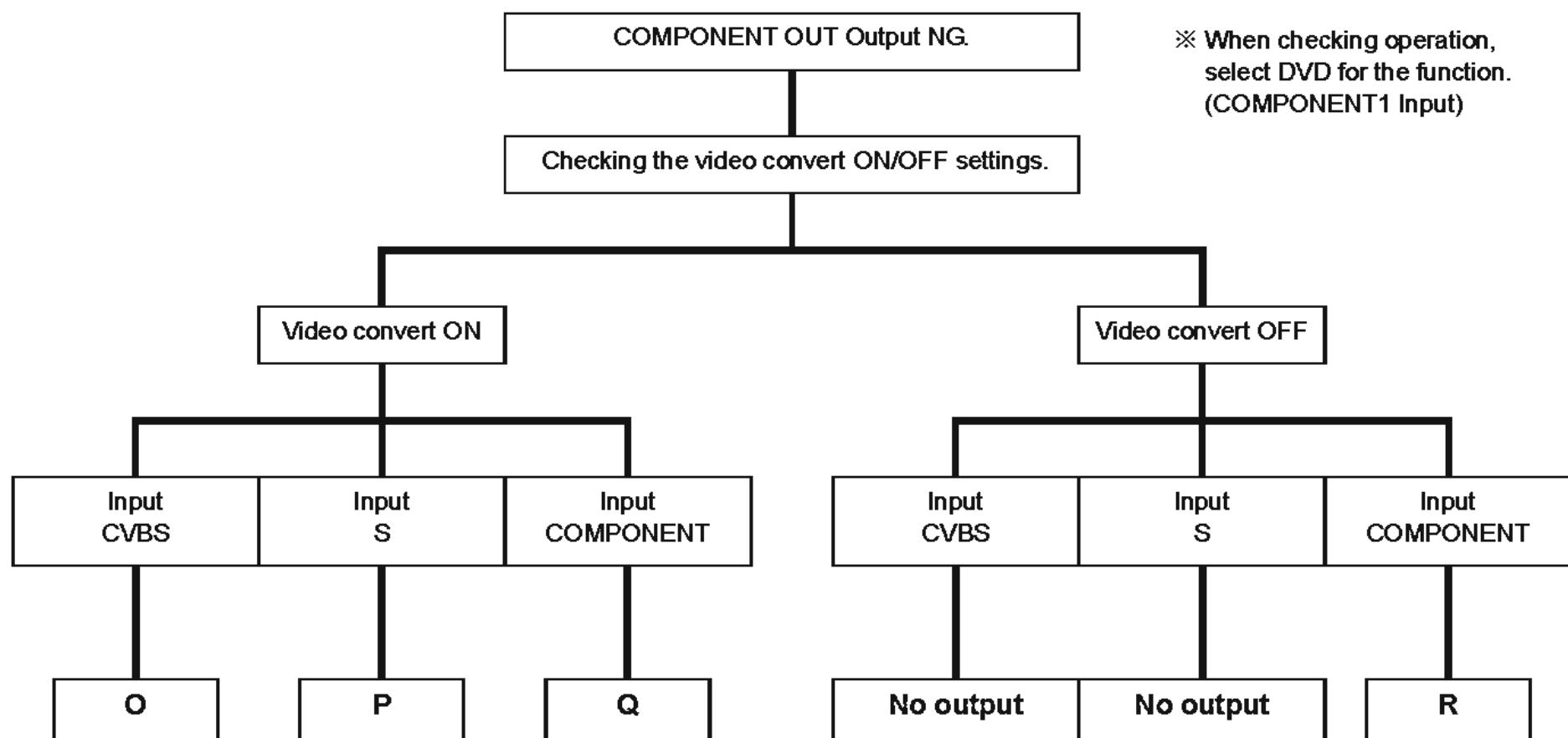
※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

N

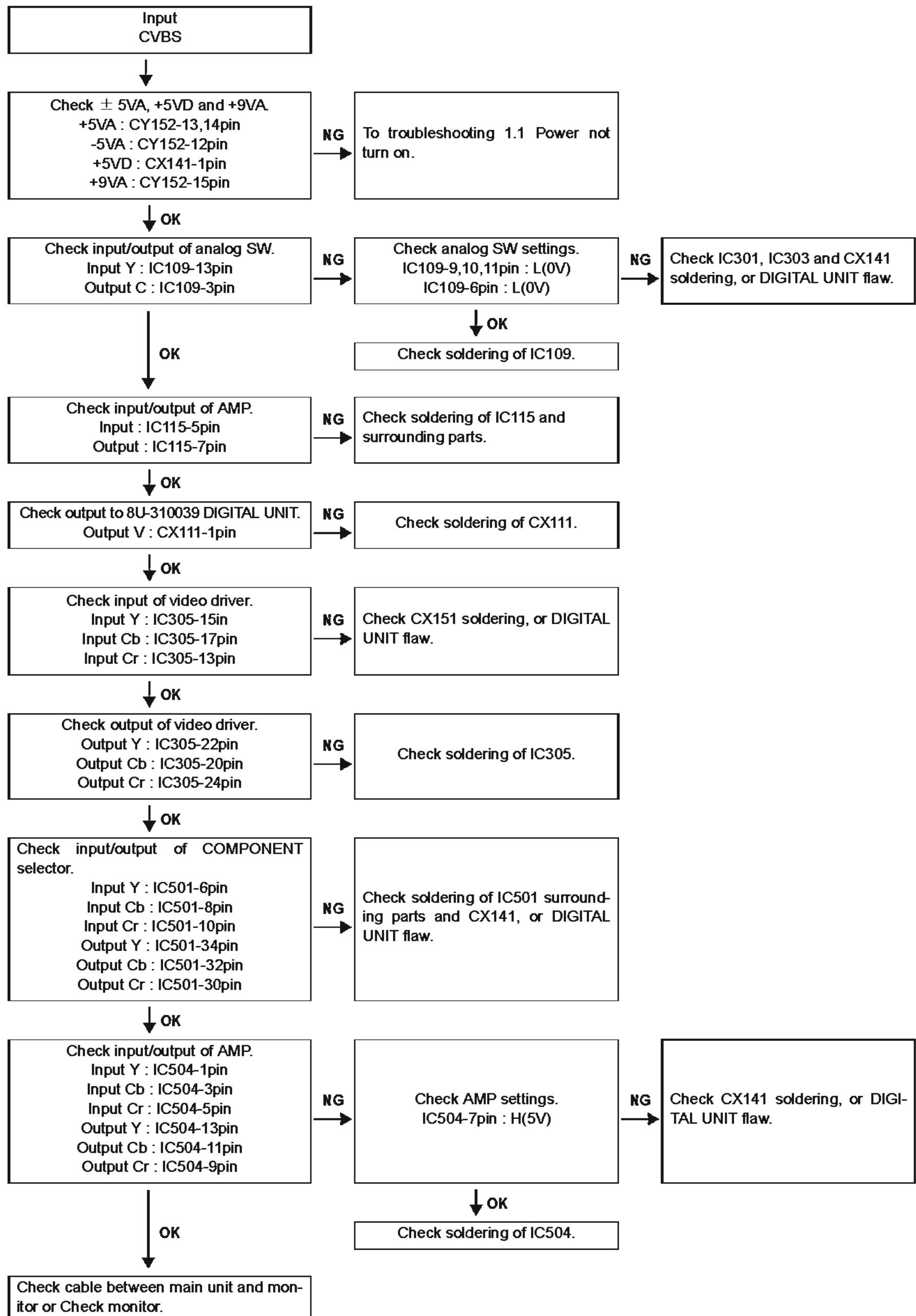


※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

2.6. COMPONENT OUT Output NG

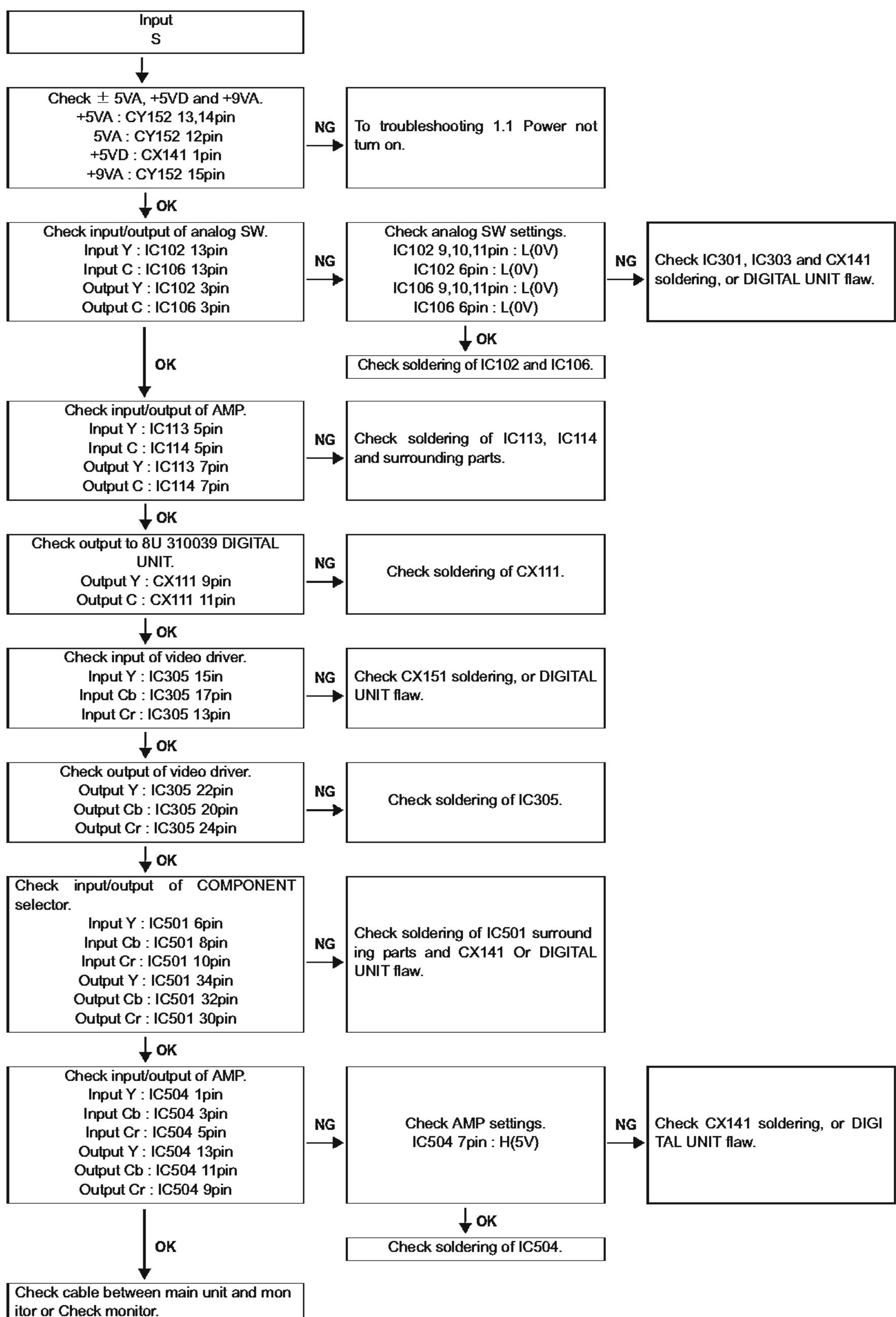


O



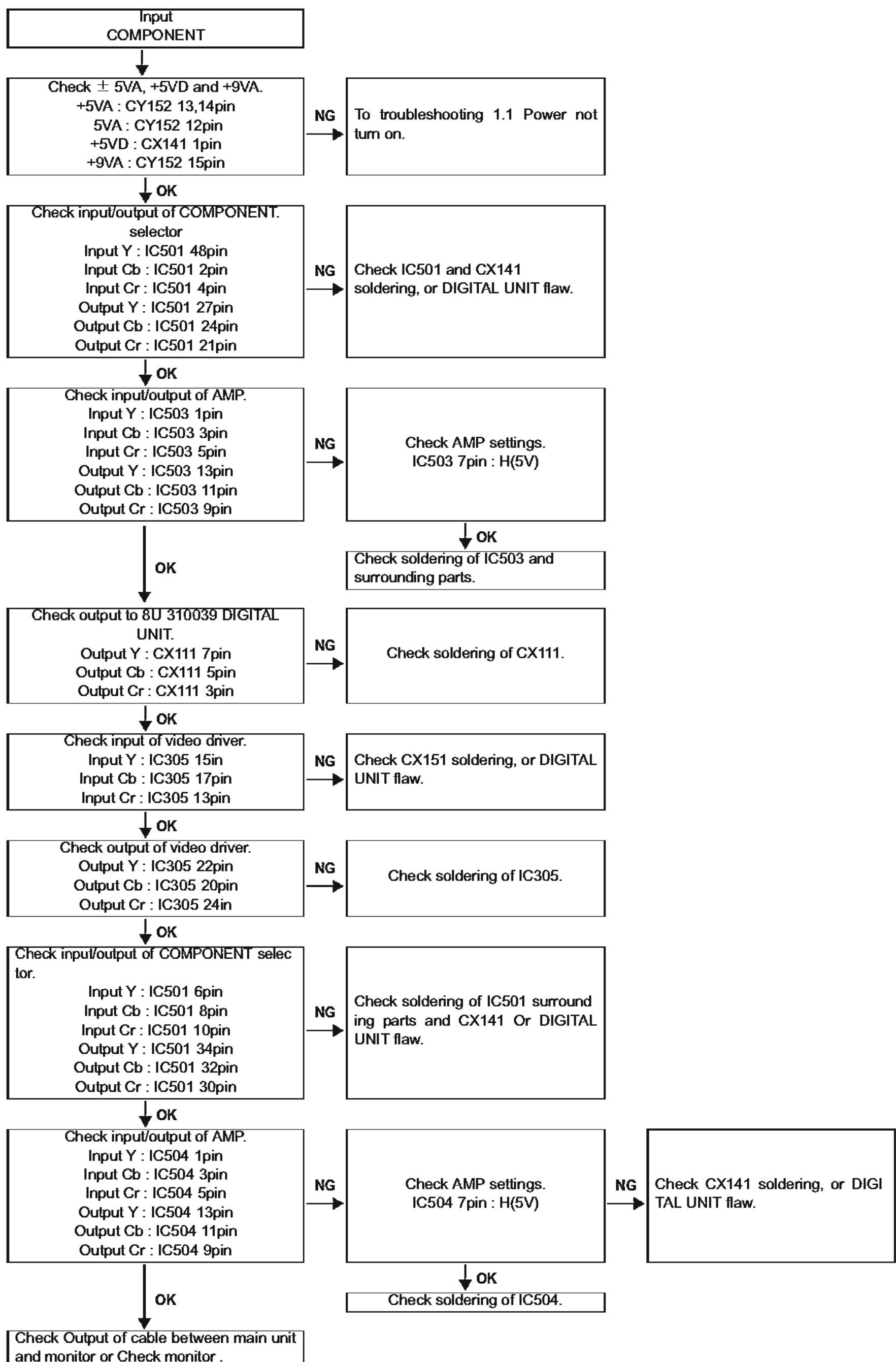
※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

P



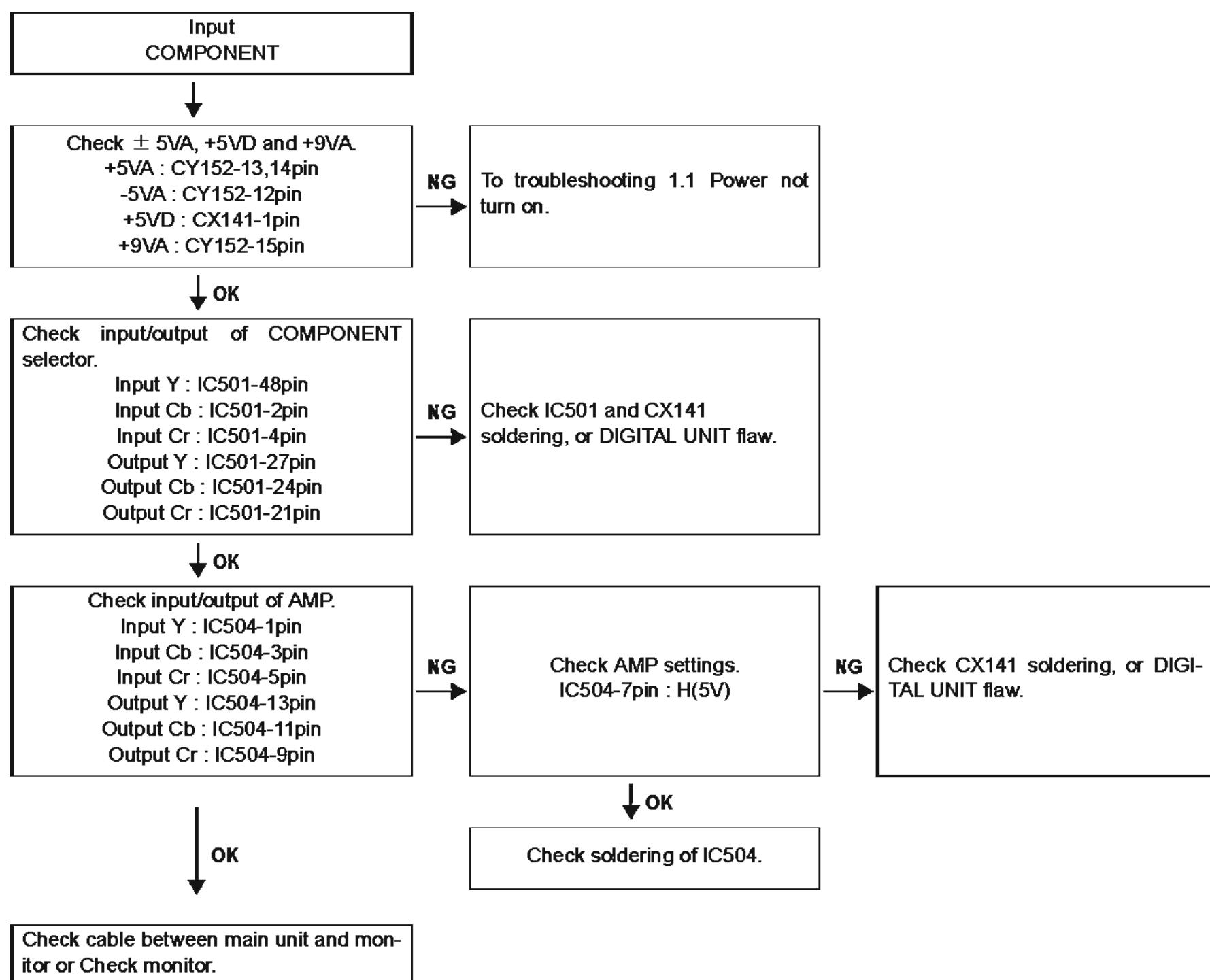
※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

Q



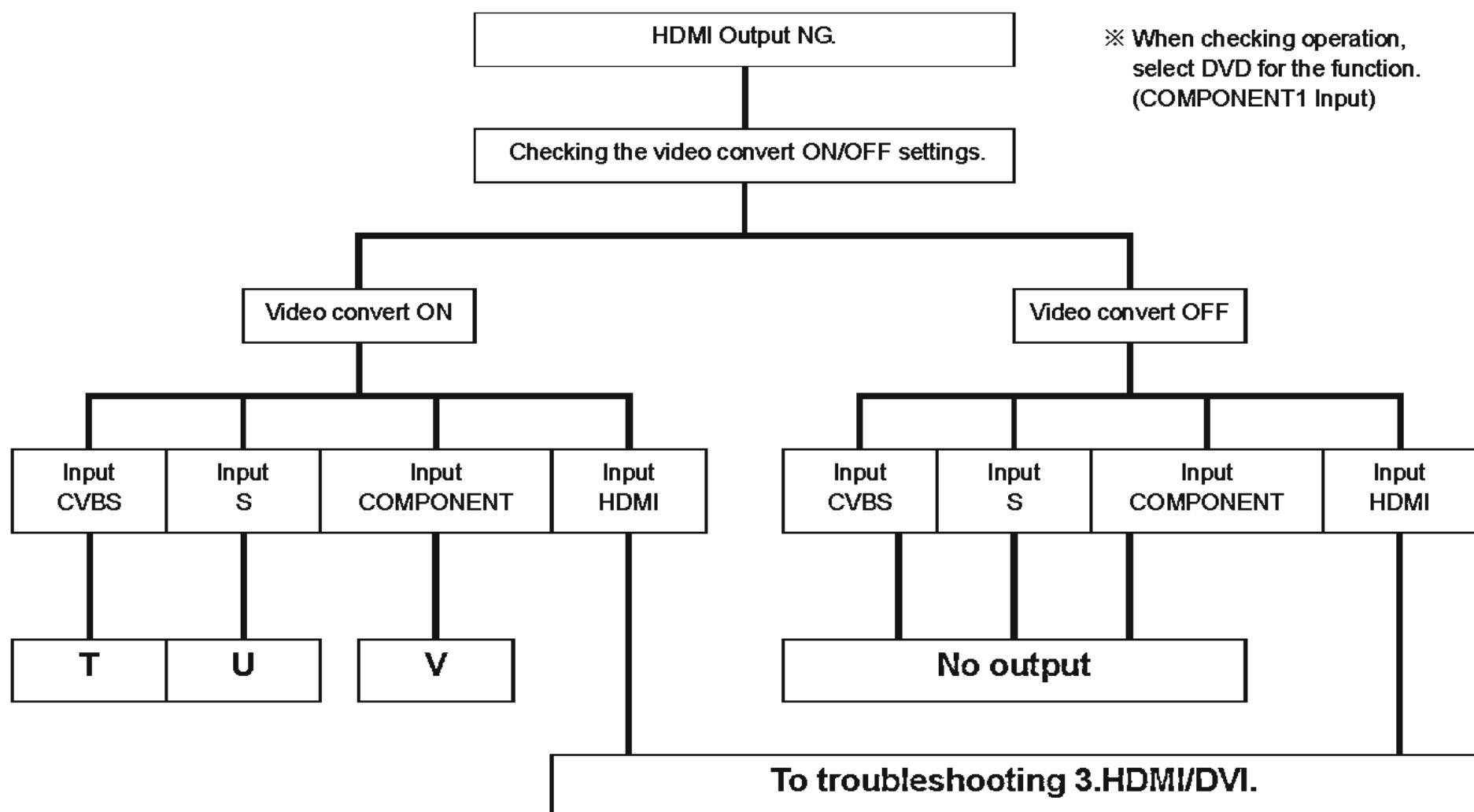
※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

R

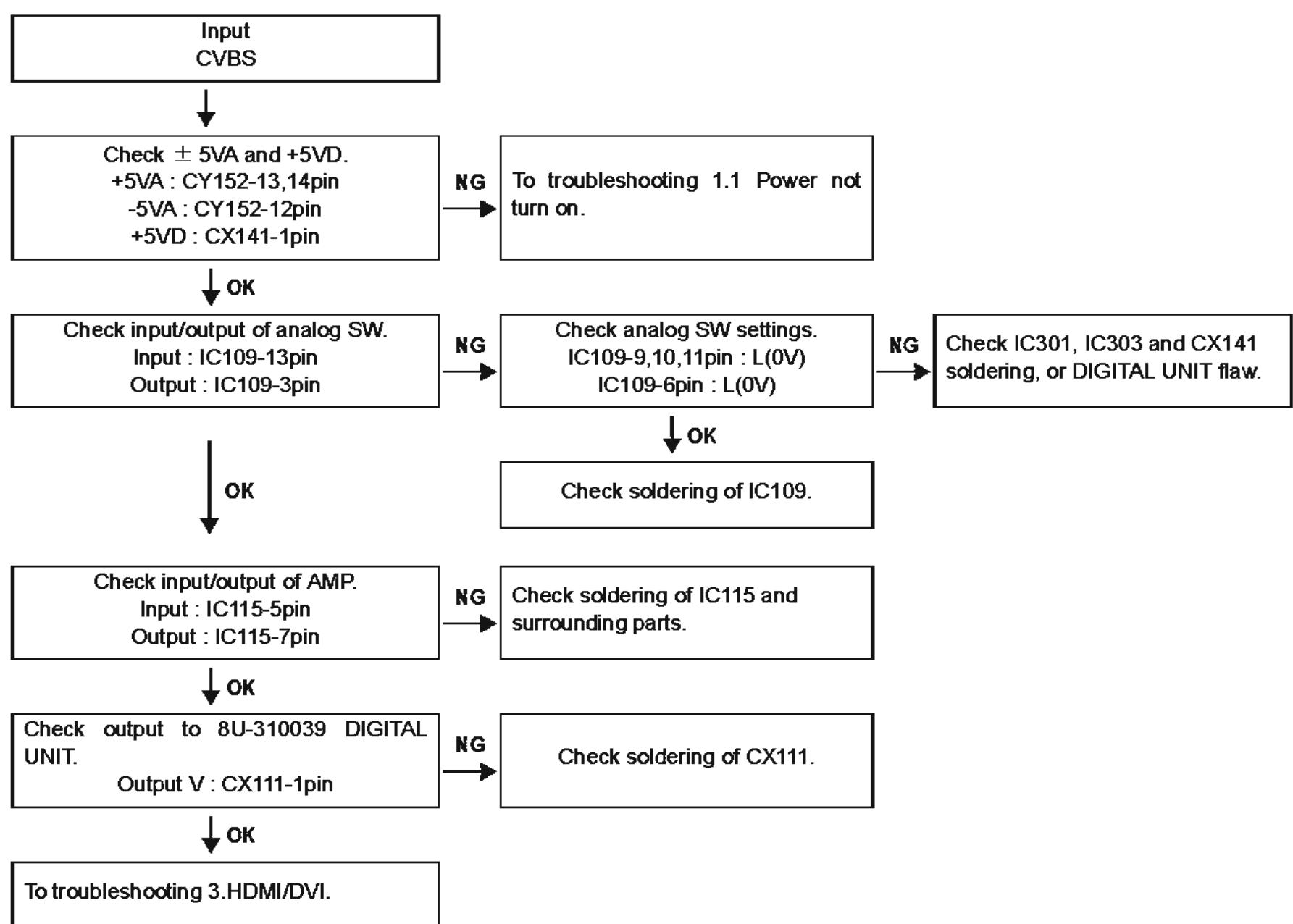


※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

2.7. HDMI Output NG

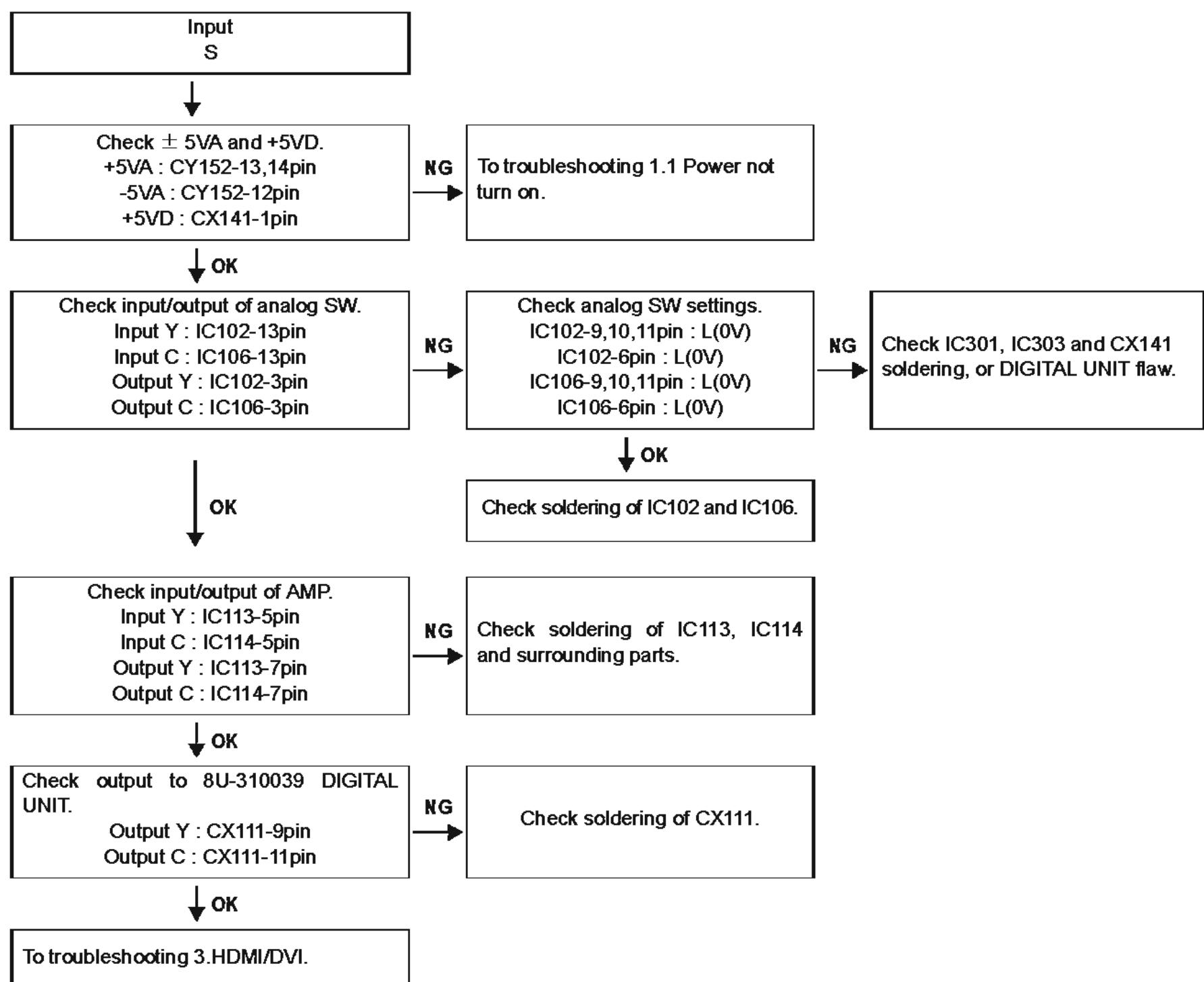


T



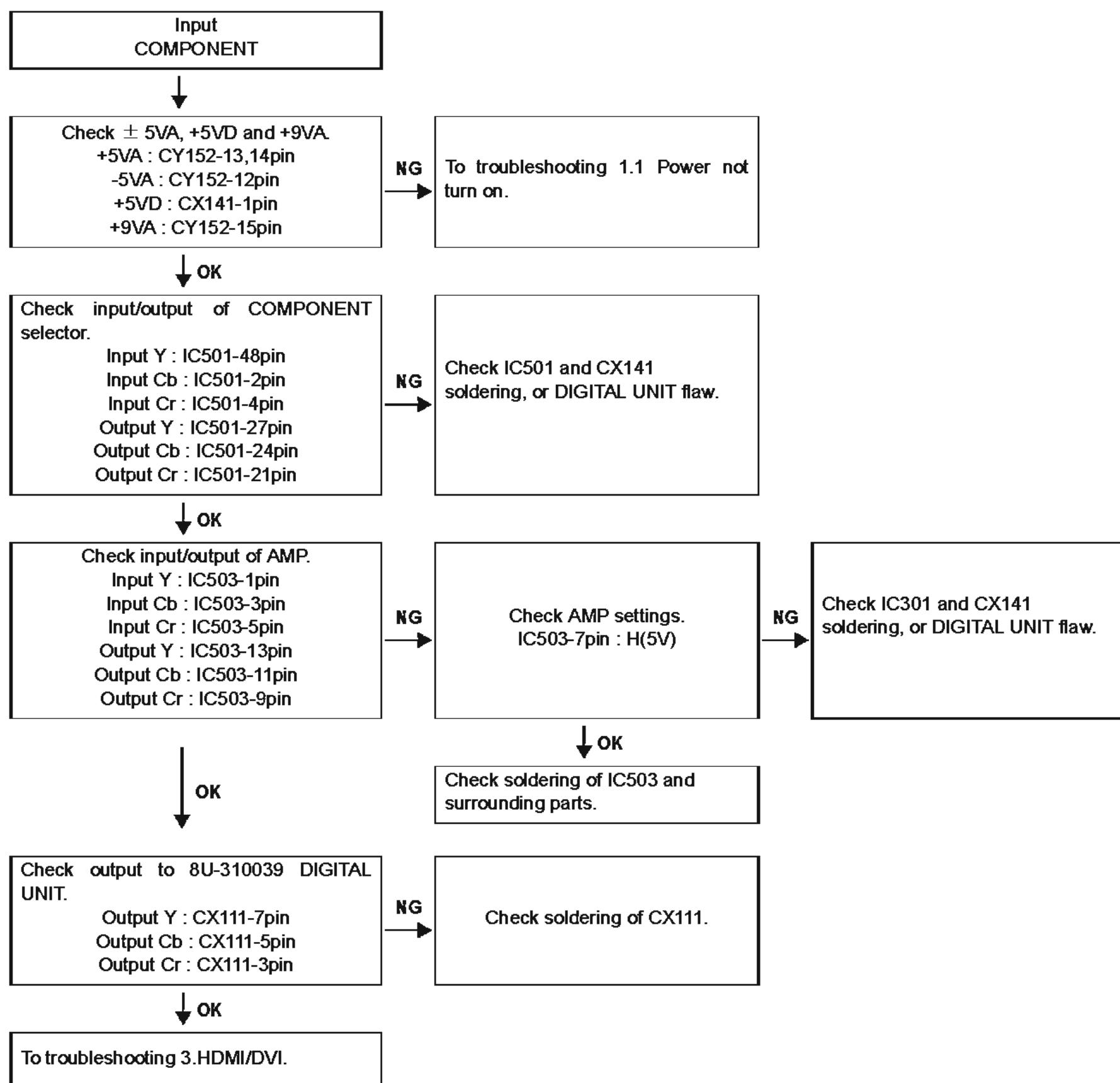
※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

U



※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

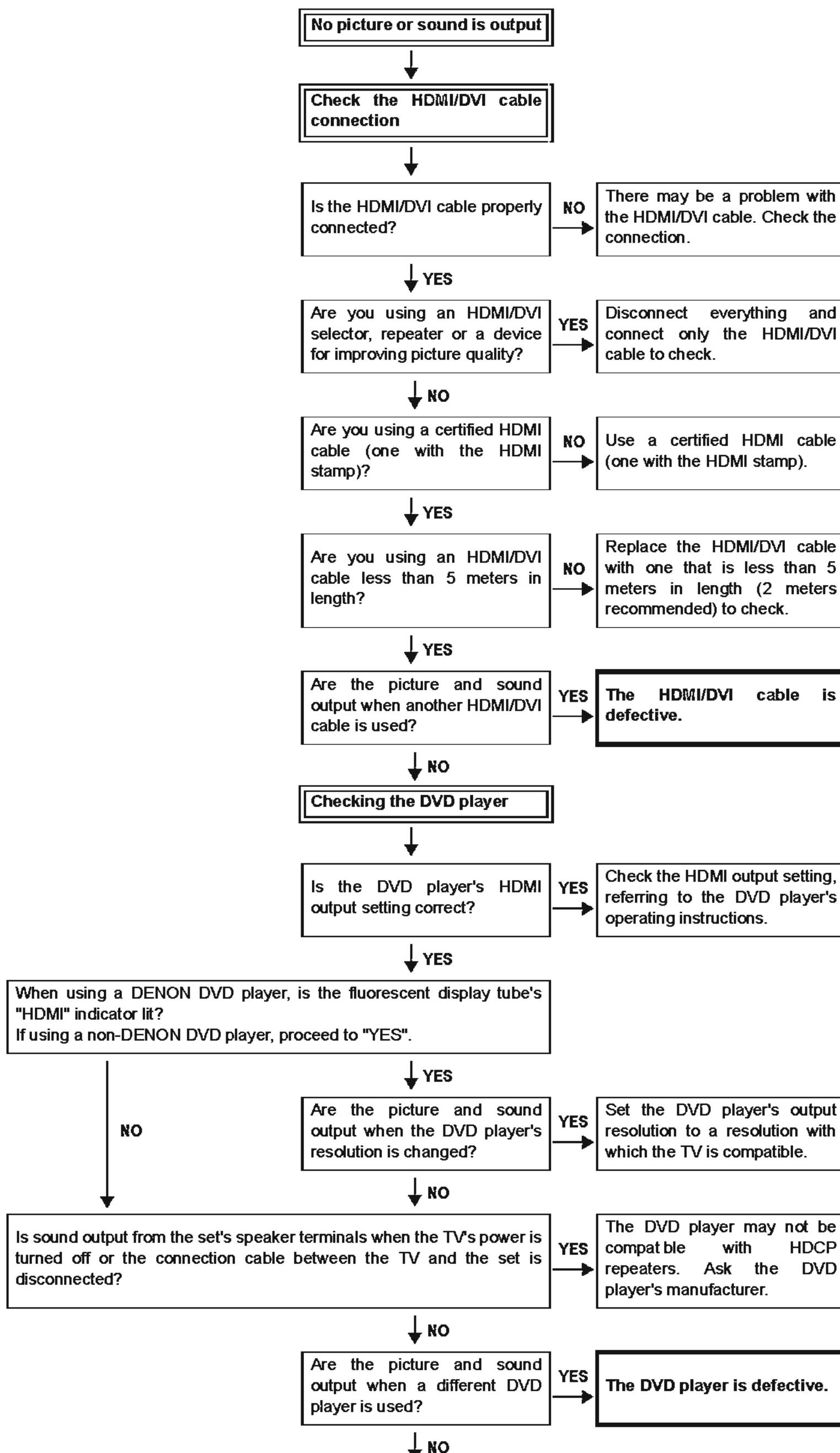
V

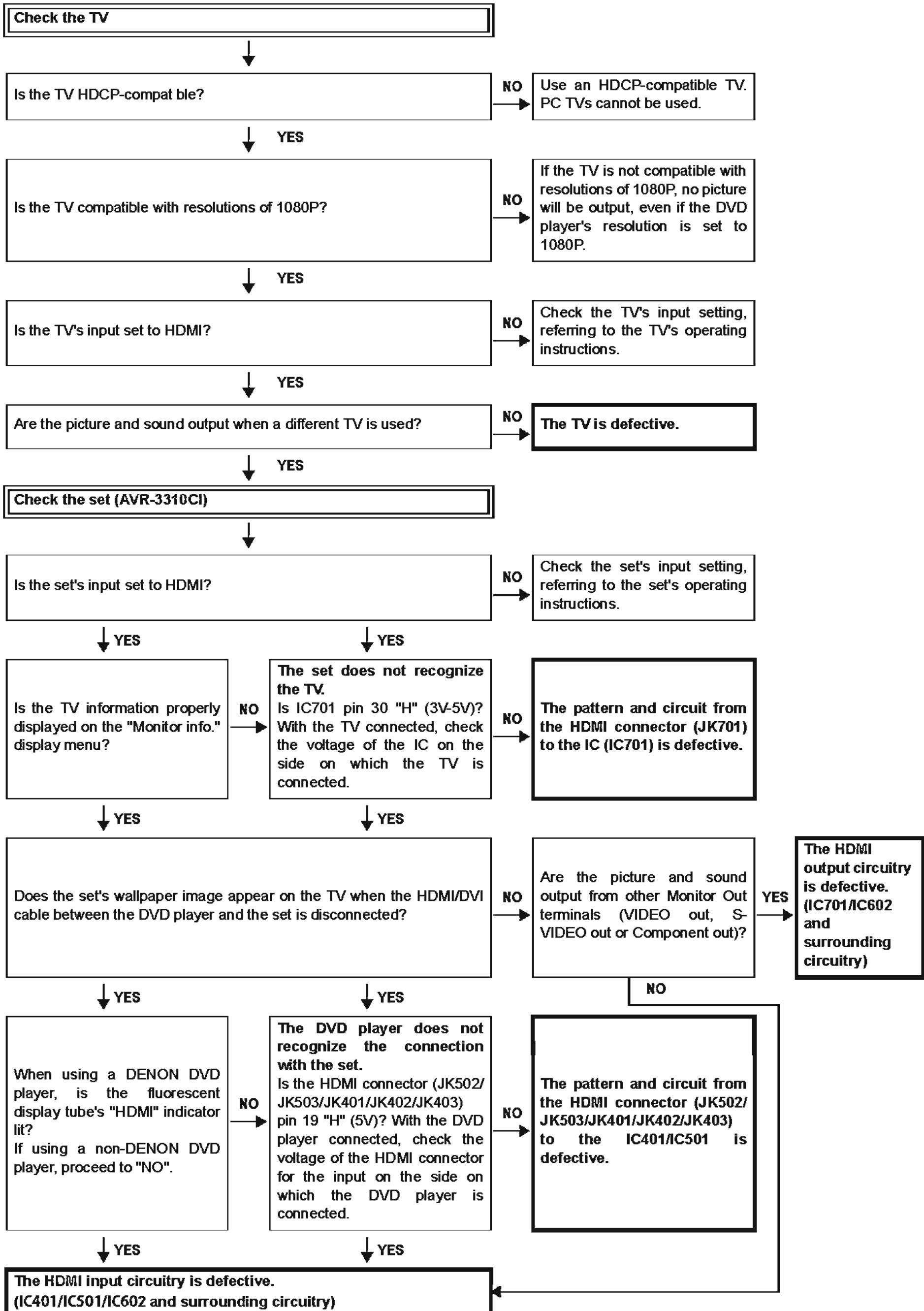


※ Unless specified, 8U-210081-1 A.VIDEO UNIT part.

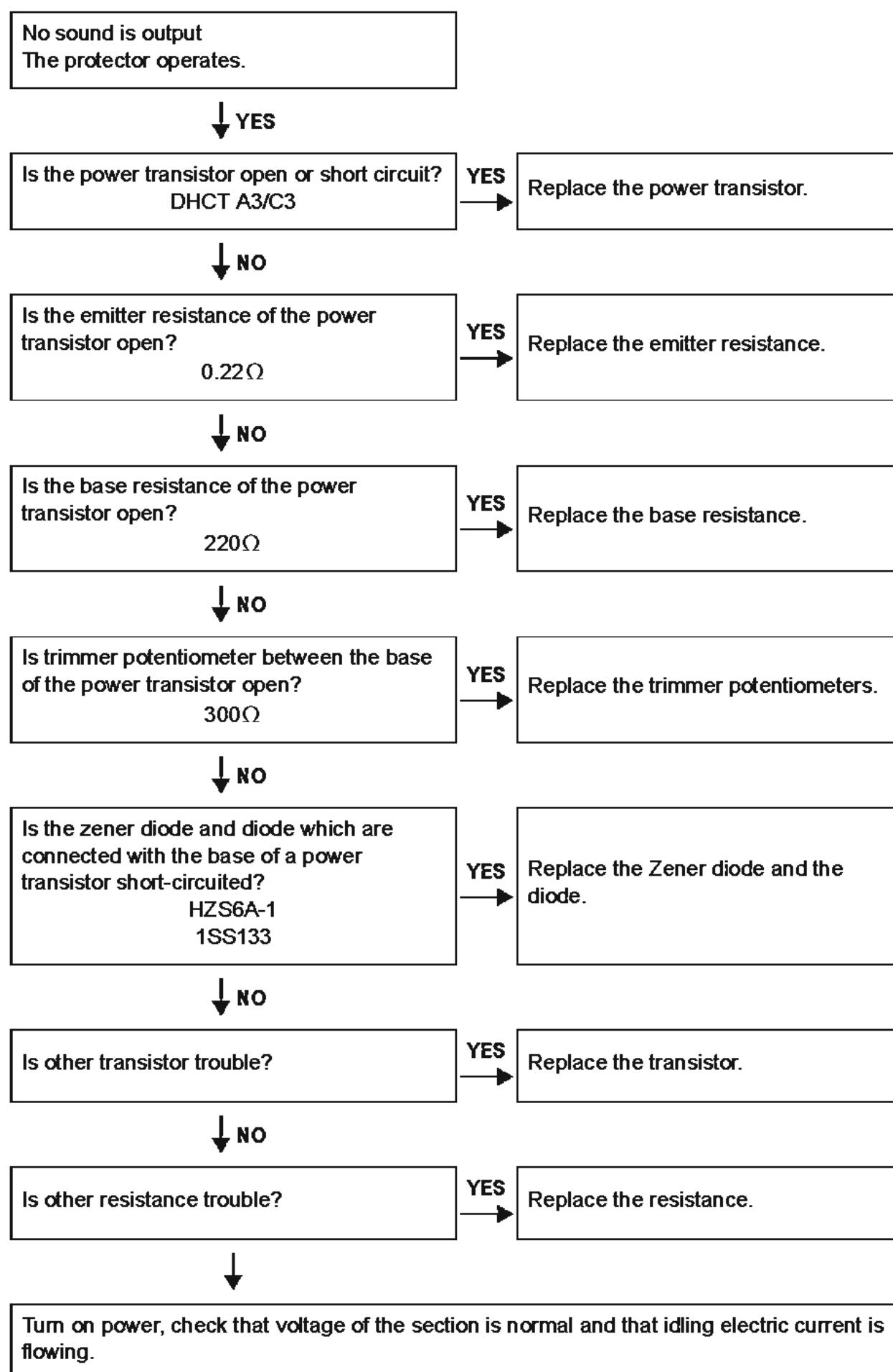
3. HDMI/DVI

3.1. No picture or sound is output



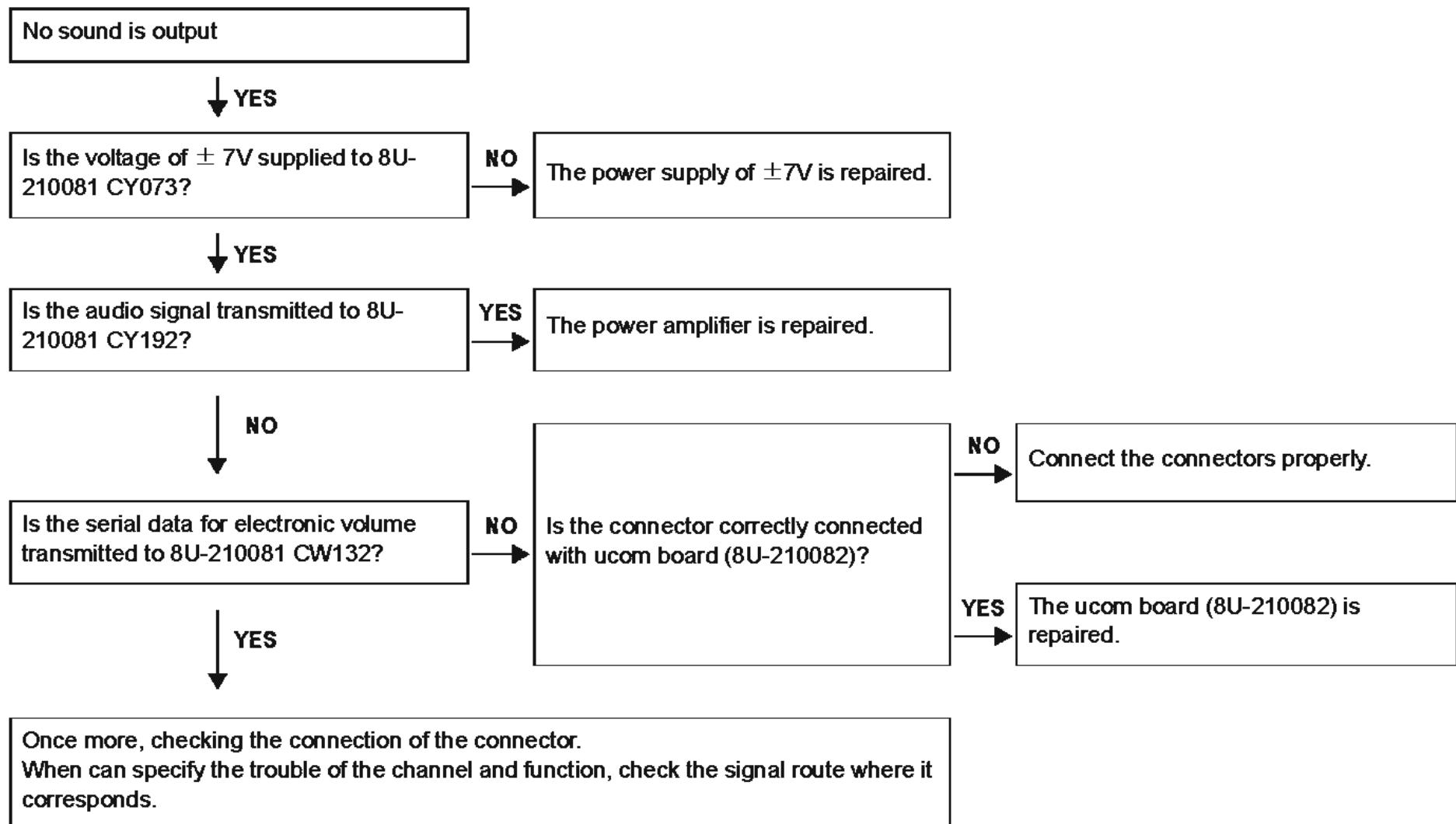


4. Power AMP (8U-110062, 8U-110063)



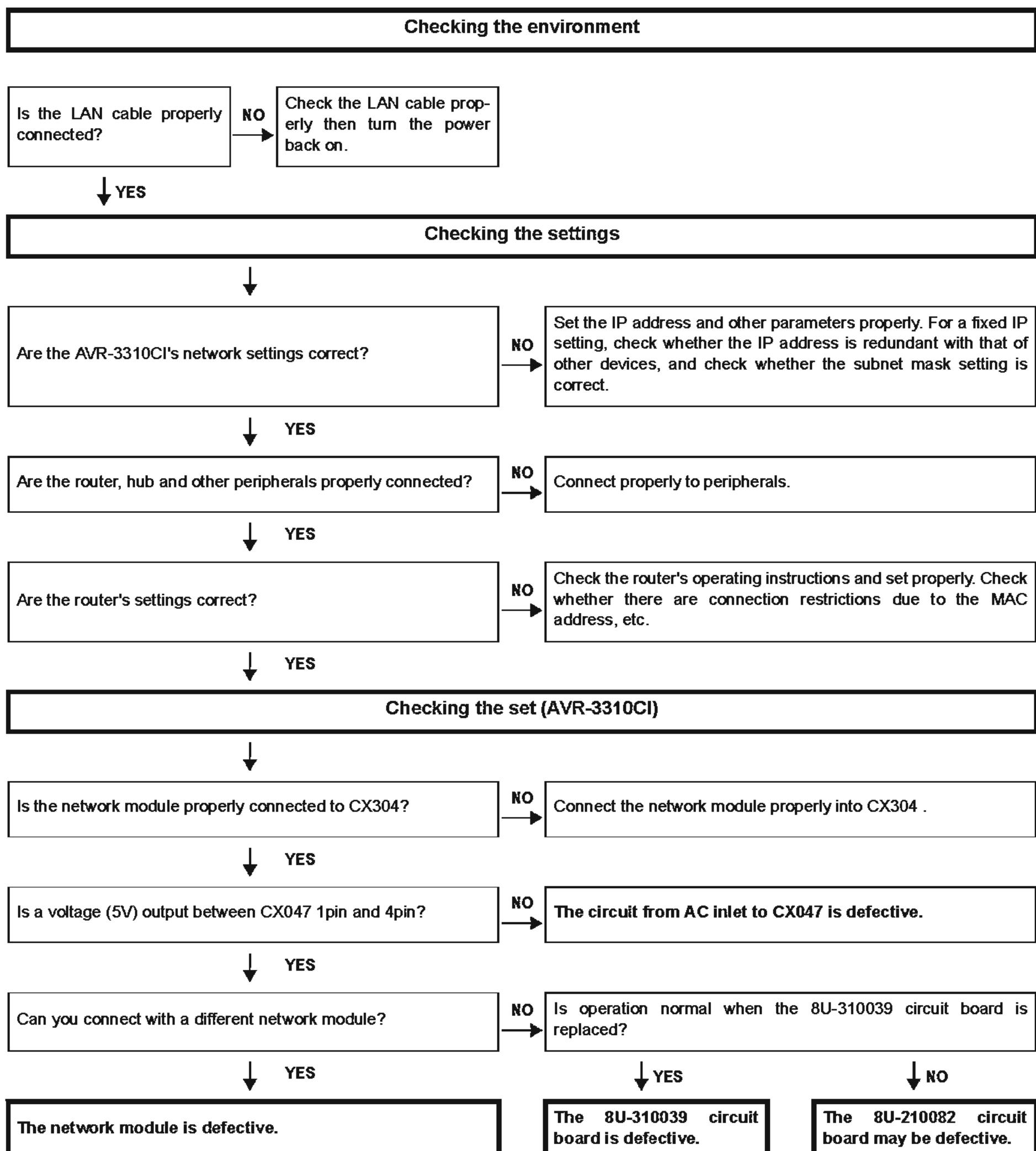
5. Analog audio

5.1. 8U-210081

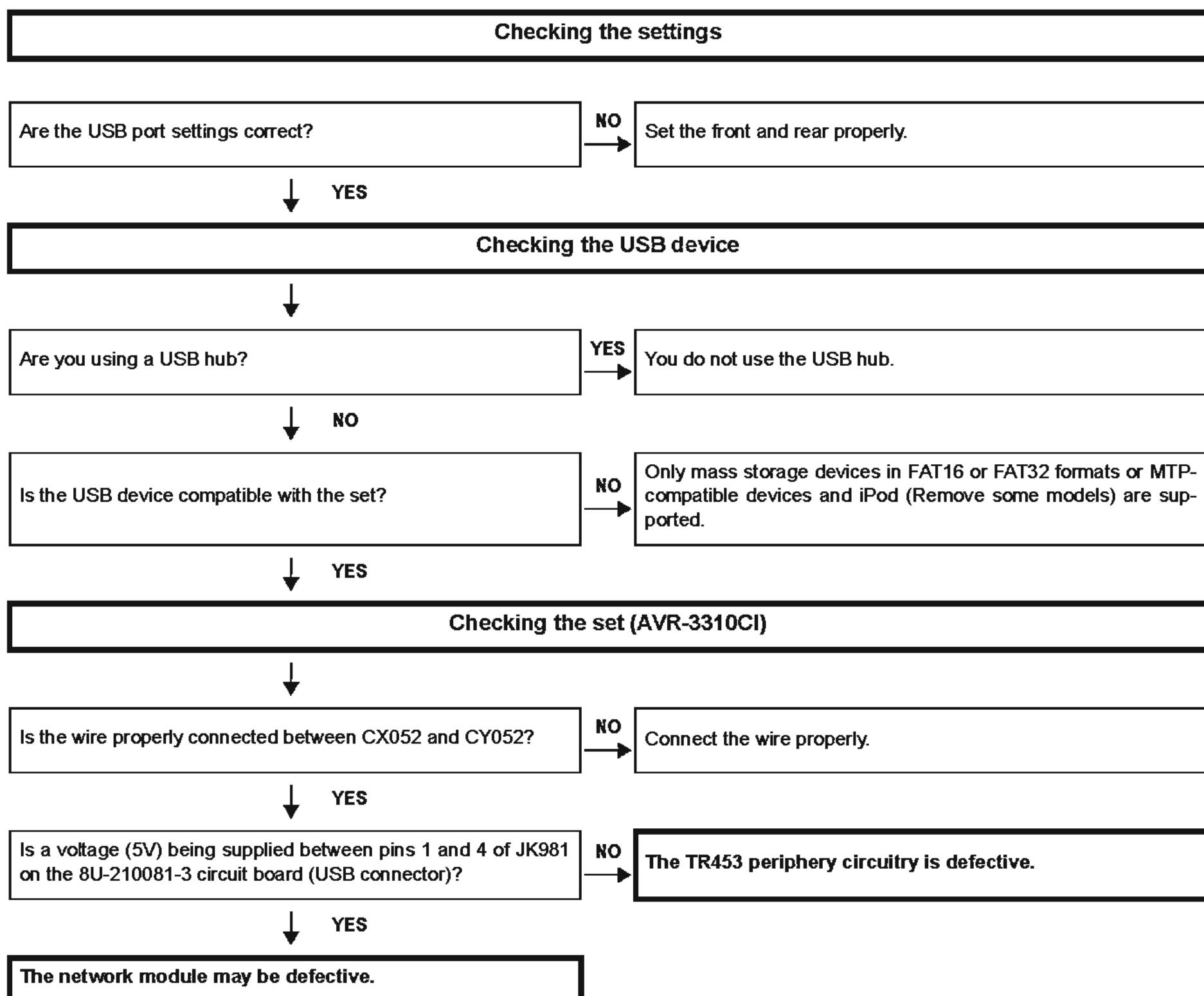


6. Network/USB

6.1. Cannot connect to network

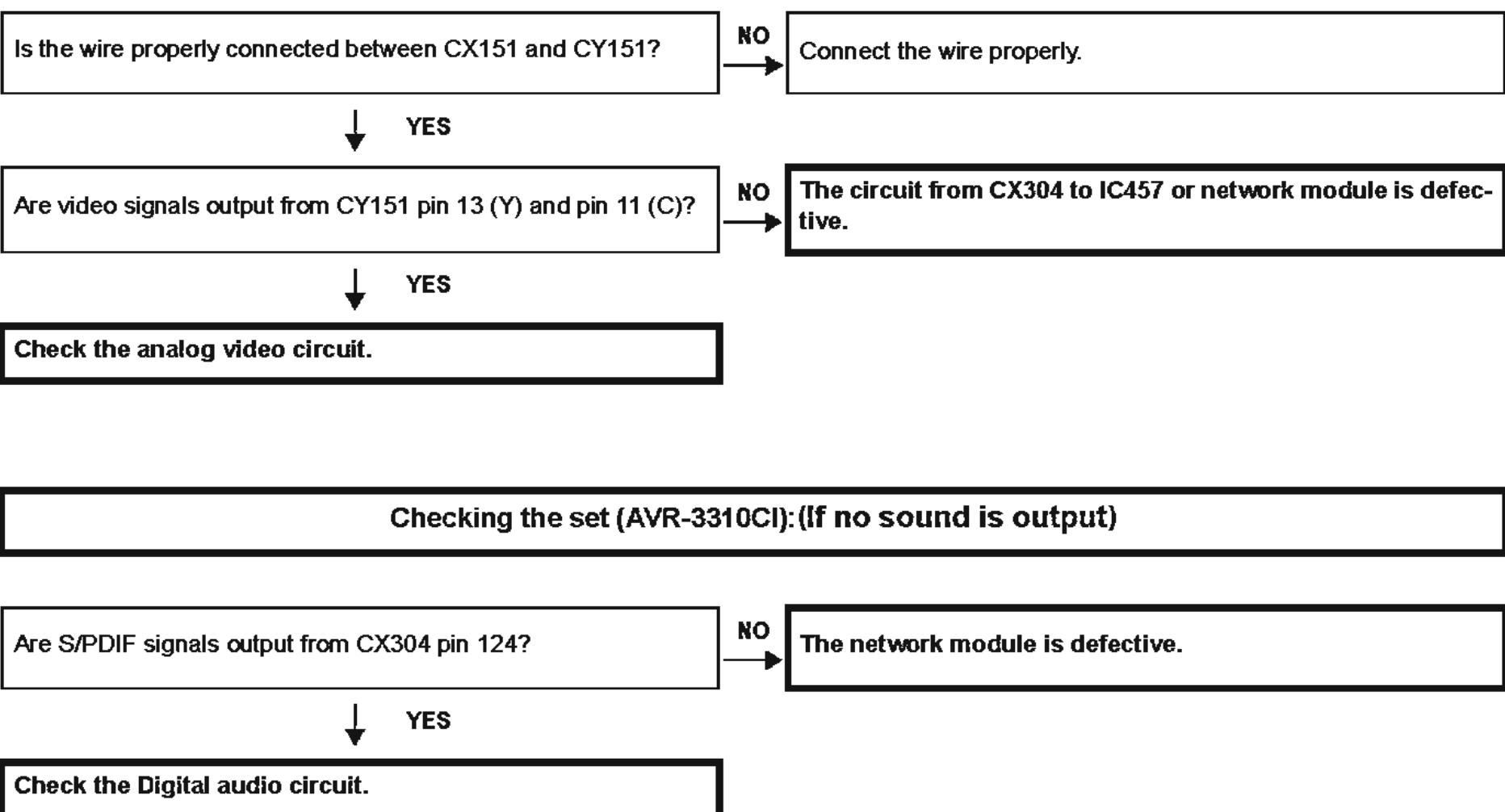


6.2. USB device is not recognized

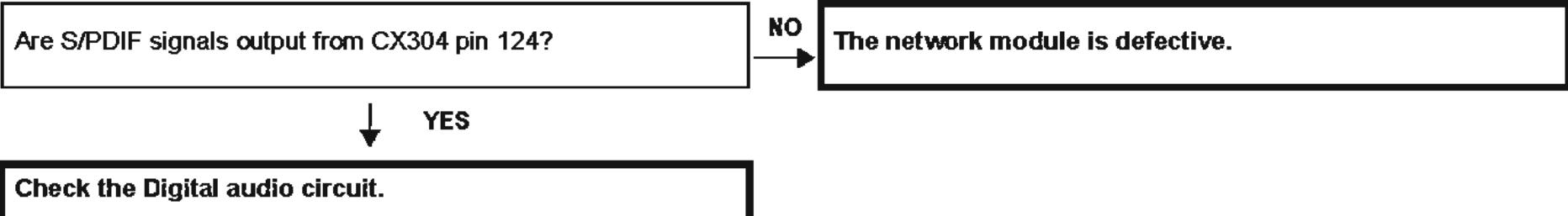


6.3. No picture or sound is output

Checking the set (AVR-3310CI):(If no picture is output)



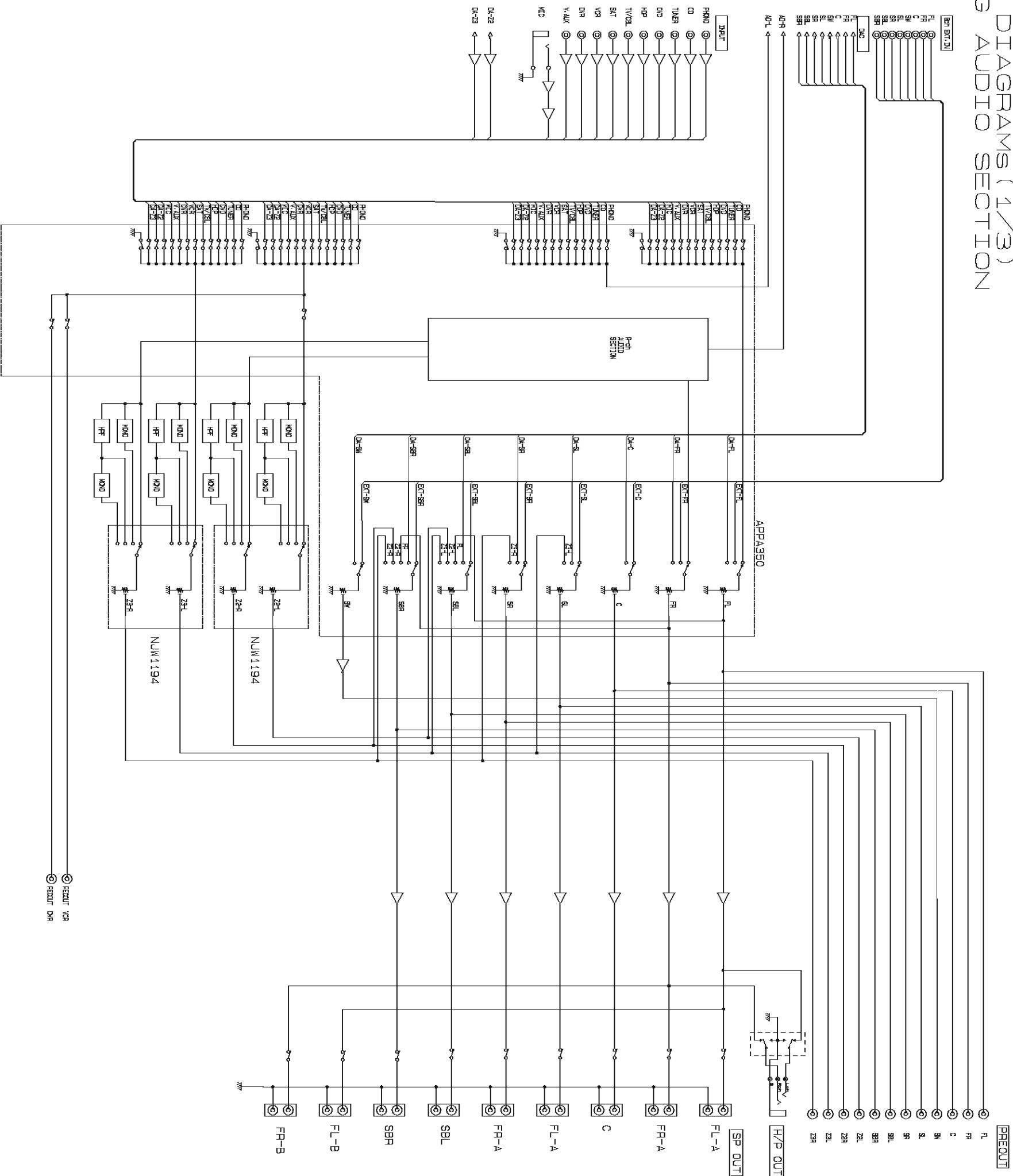
Checking the set (AVR-3310CI):(If no sound is output)



--MEMO--

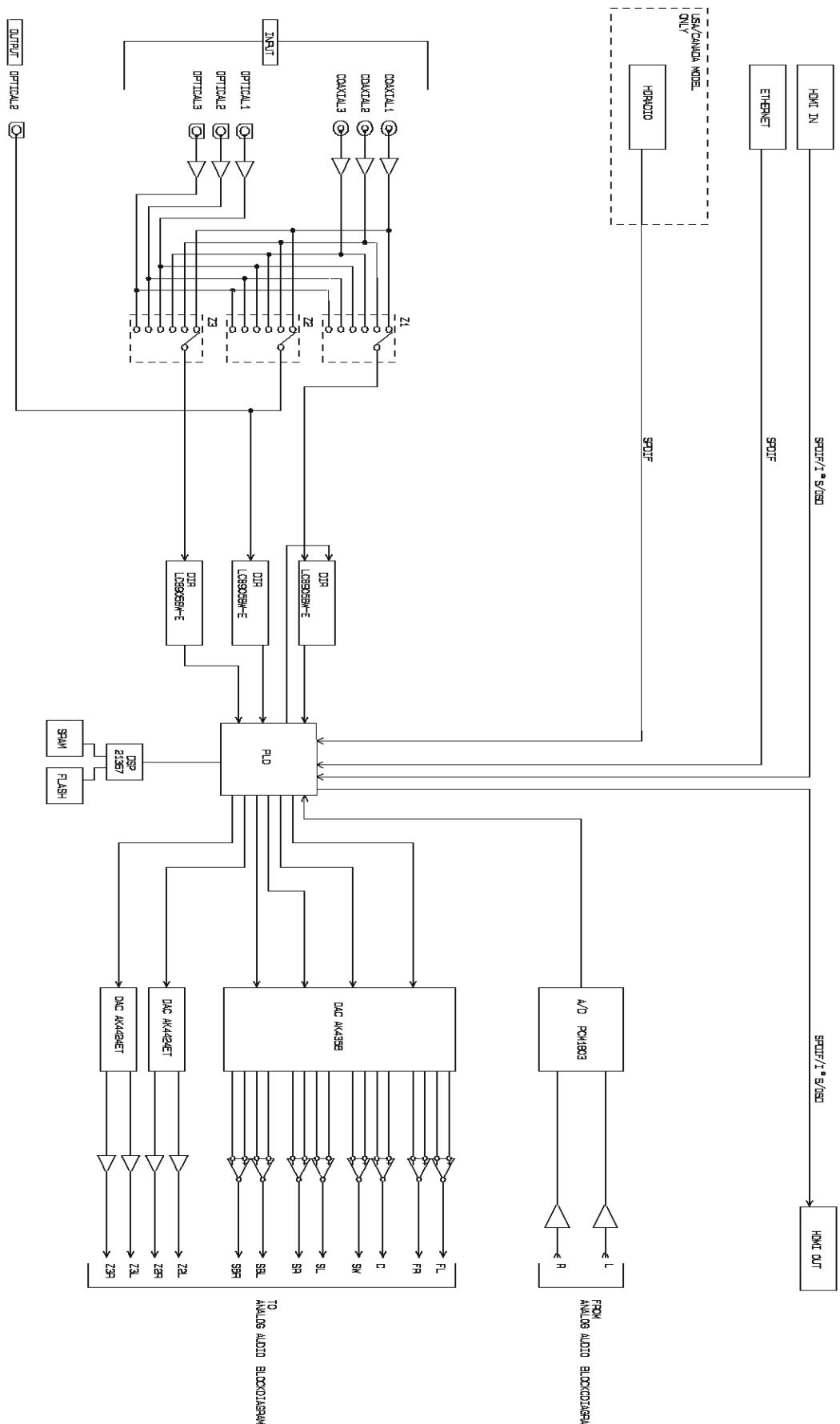
BLOCK DIAGRAMS (1/3)
ANALOG AUDIO BLOCK DIAGRAM

AVR3310
BLOCK DIAGRAMS (1/3)
ANALOG AUDIO SECTION



BLOCK DIAGRAMS (2/3) DIGITAL AUDIO BLOCK D

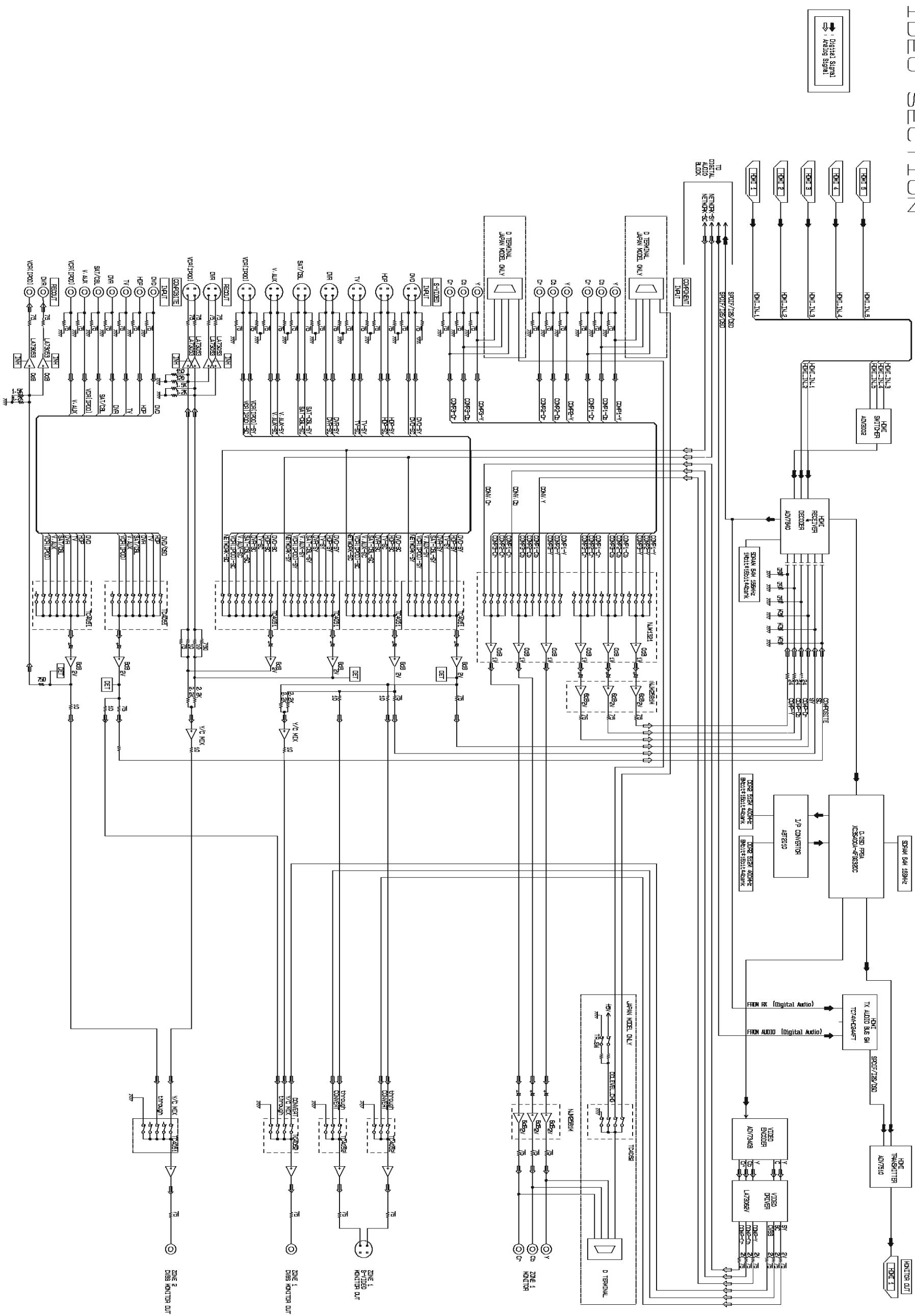
AVR3310 BLOCK DIAGRAMS (2/3) DIGITAL AUDIO SECTION



BLOCK DIAGRAMS (3/3)

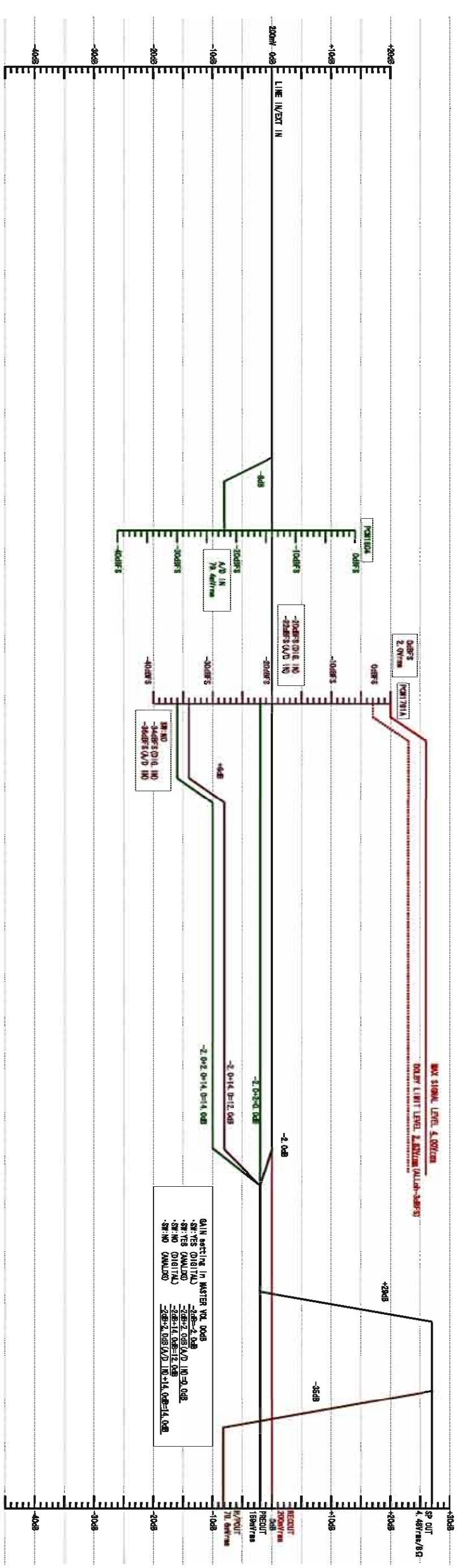
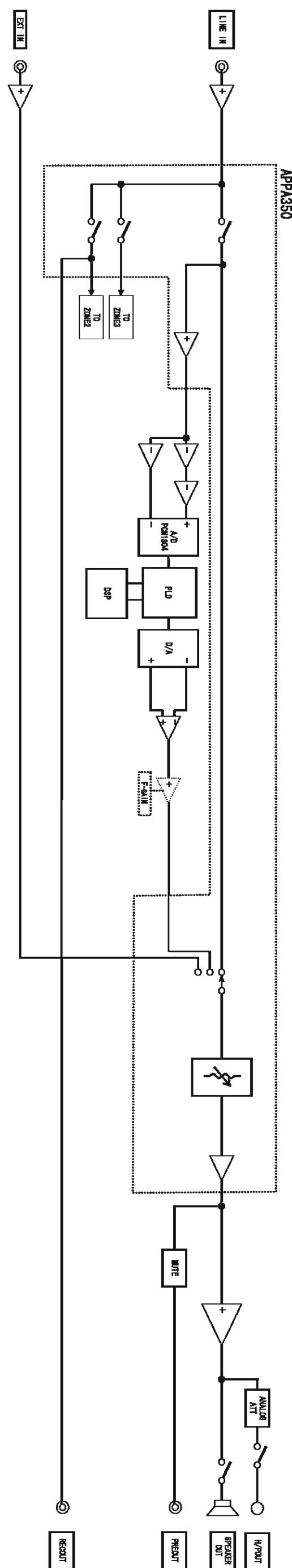
VIDEO BLOCK DIAGRAM

AVR3310C BLOCK DIAGRAMS VIDEO SECTION



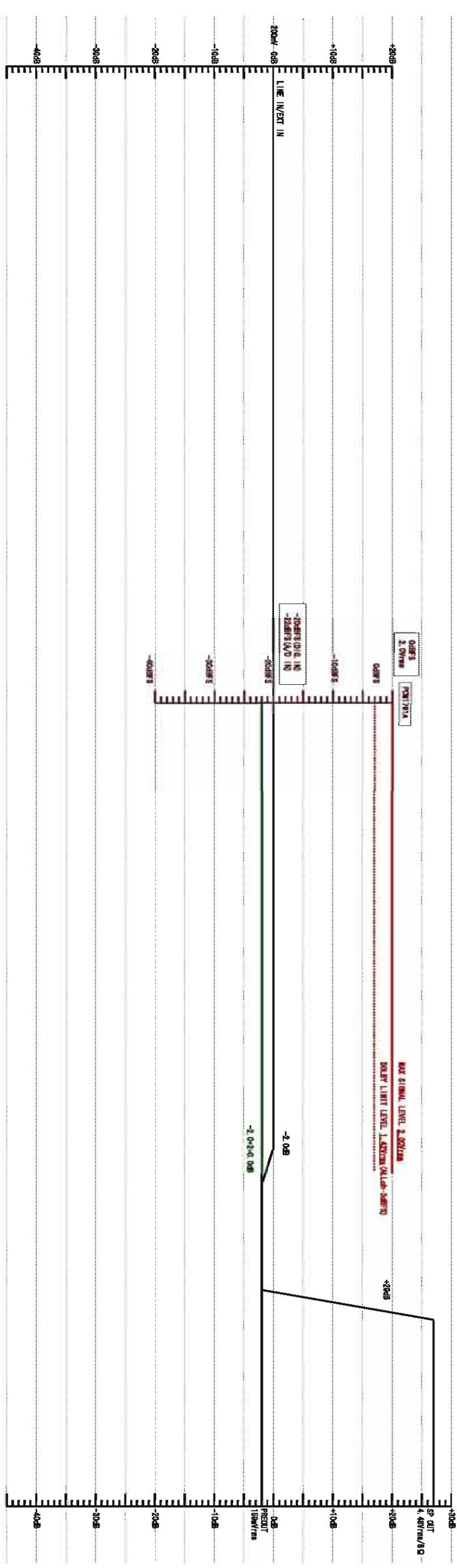
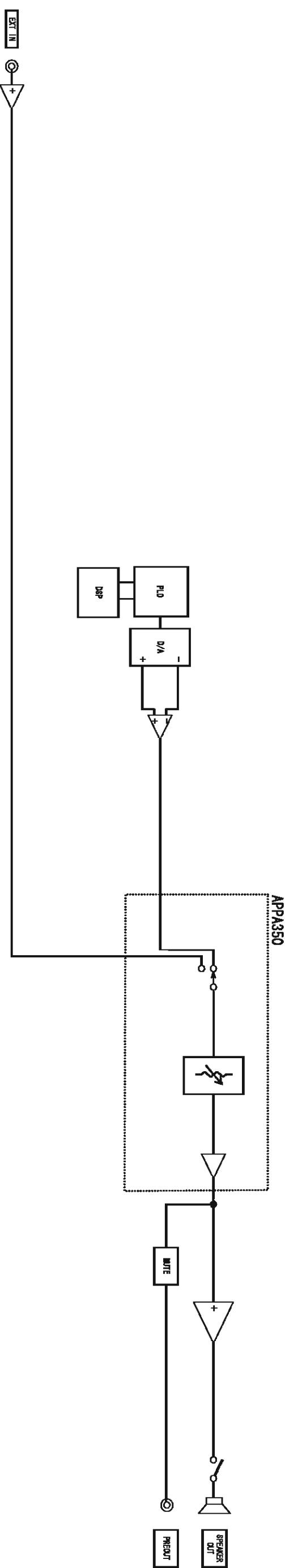
LEVEL DIAGRAMS (1/6)

AVR-3310C1
LEVEL DIAGRAM
FRONT ch

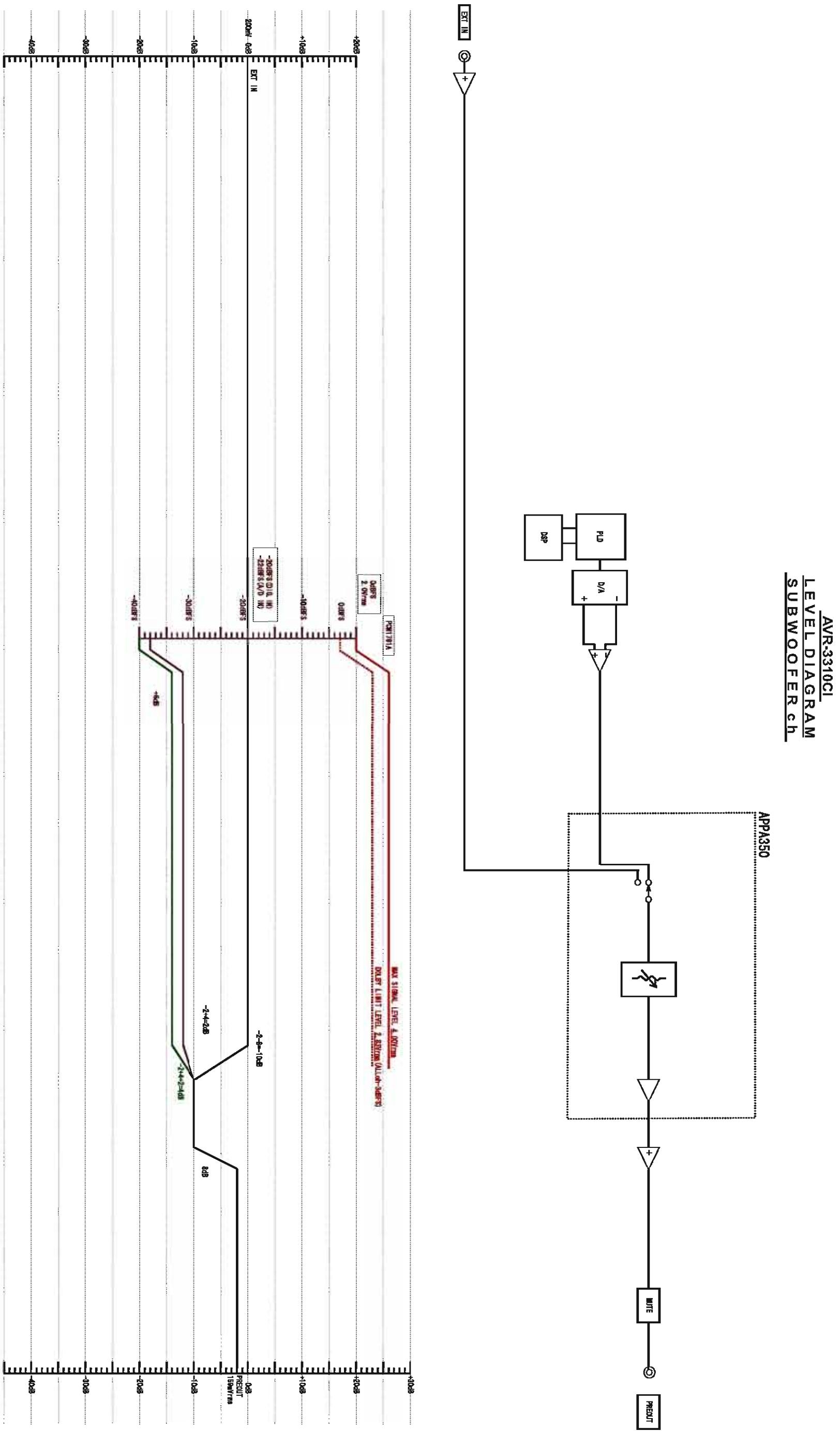


LEVEL DIAGRAMS (2/6)

AVR-3310CI
LEVEL DIAGRAM
CENTER ch.

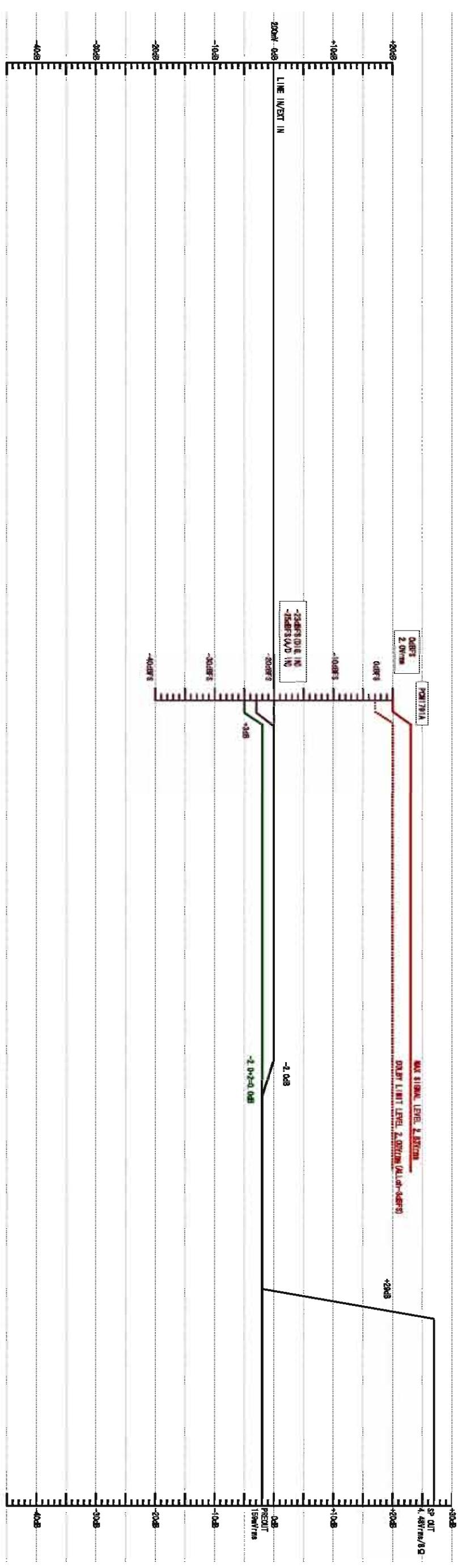
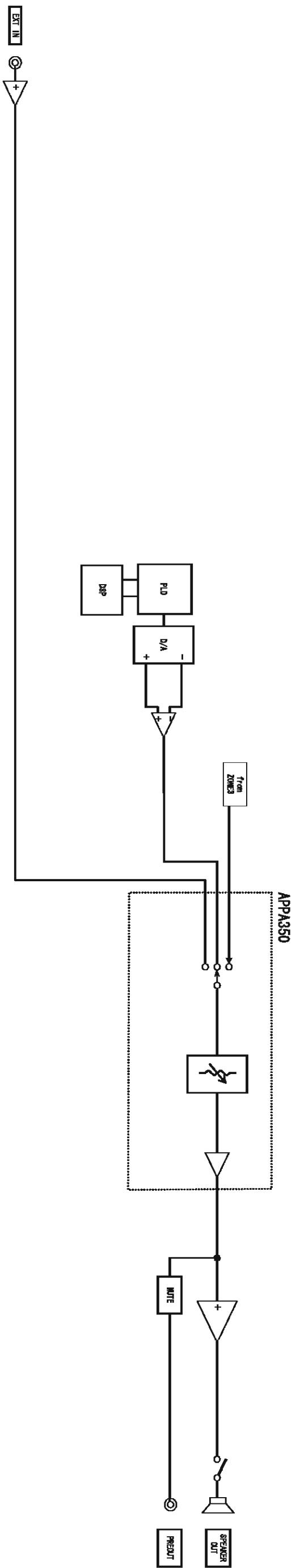


LEVEL DIAGRAMS (3/6)

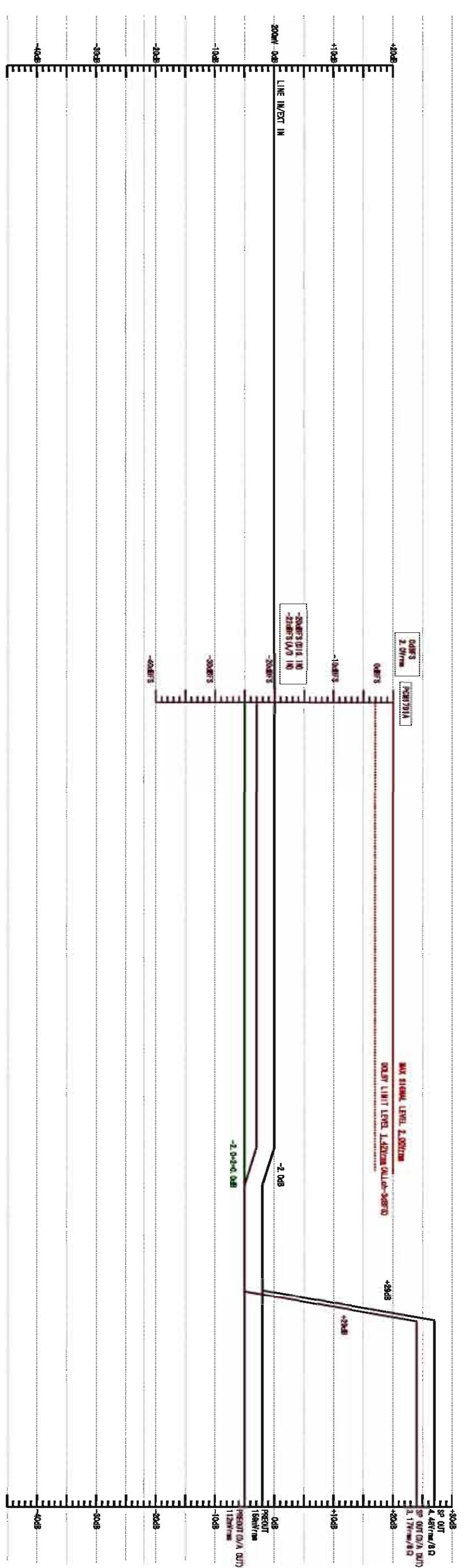
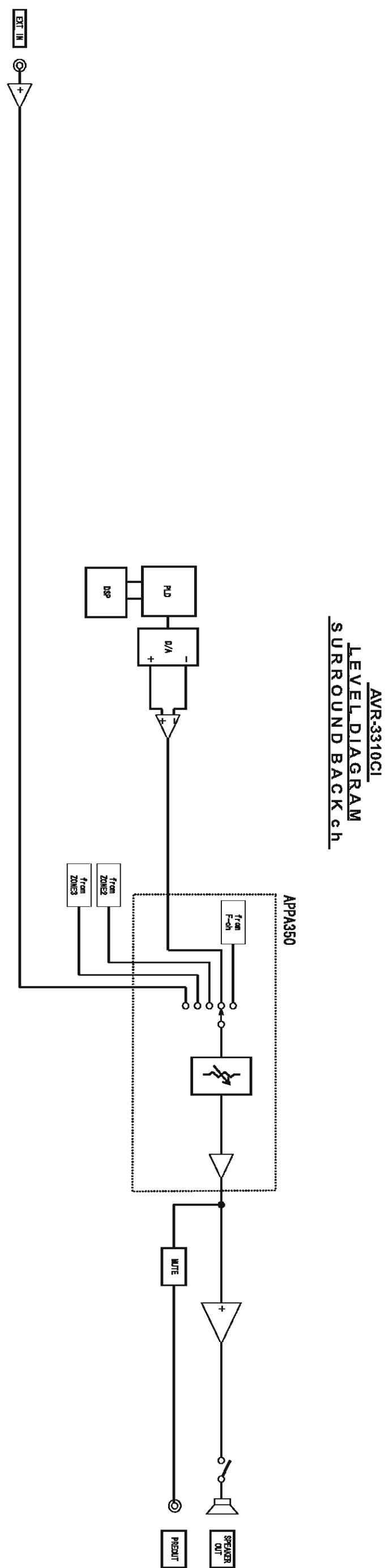


LEVEL DIAGRAMS (4/6)

AVR-3310CI
LEVELDIAGRAM
SURROUND ch

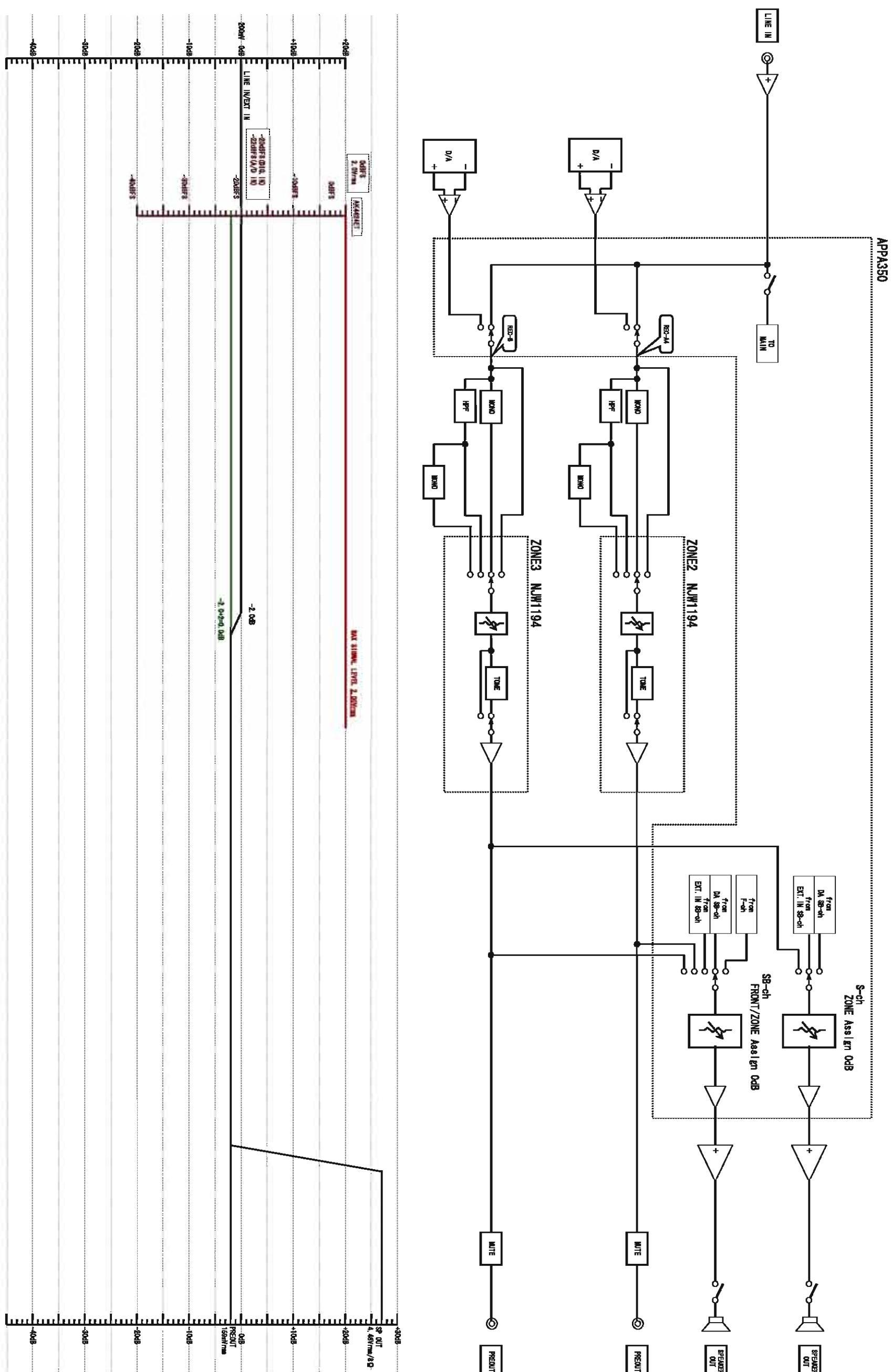


AVR-3310C1
LEVEL DIAGRAM
SURROUND BACK ch



LEVEL DIAGRAMS (6/6)

AVR-3310C1
LEVEL DIAGRAM
ZONE 2 / 3



SEMICONDUCTORS

Only major semiconductors are shown, general semiconductors etc. are omitted to list.

The semiconductor which described a detailed drawing in a schematic diagram are omitted to list.

1. IC's

Note : Abbreviation ahead of IC No. indicates the name of P.W.B., etc.

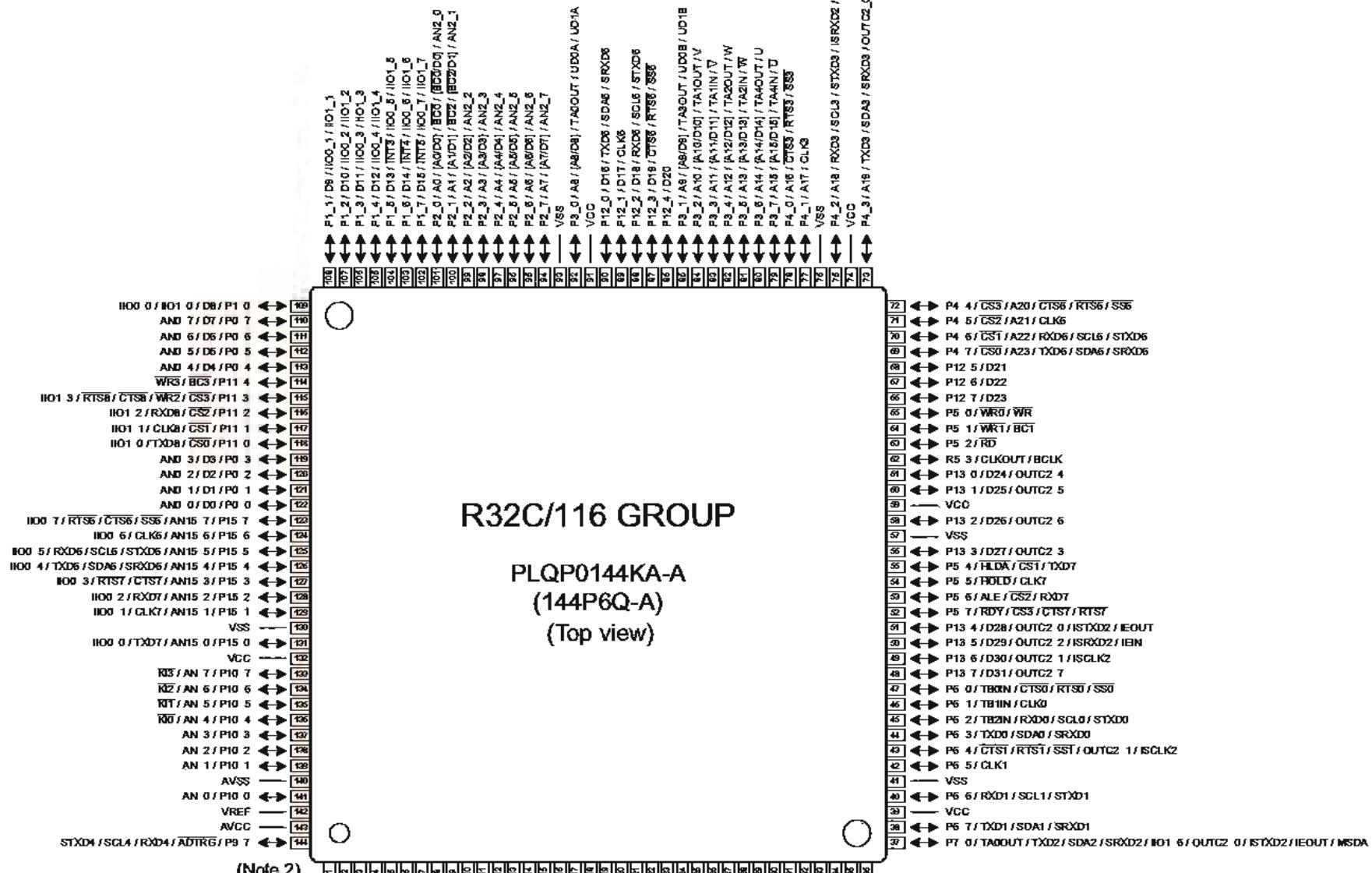
DI : DIGITAL P.W.B.

MA : MAIN CPU P.W.B.

AV : A.AUDIO/ VIDEO P.W.B.

R5F64169DFD (MA: IC701)

(Note 1)



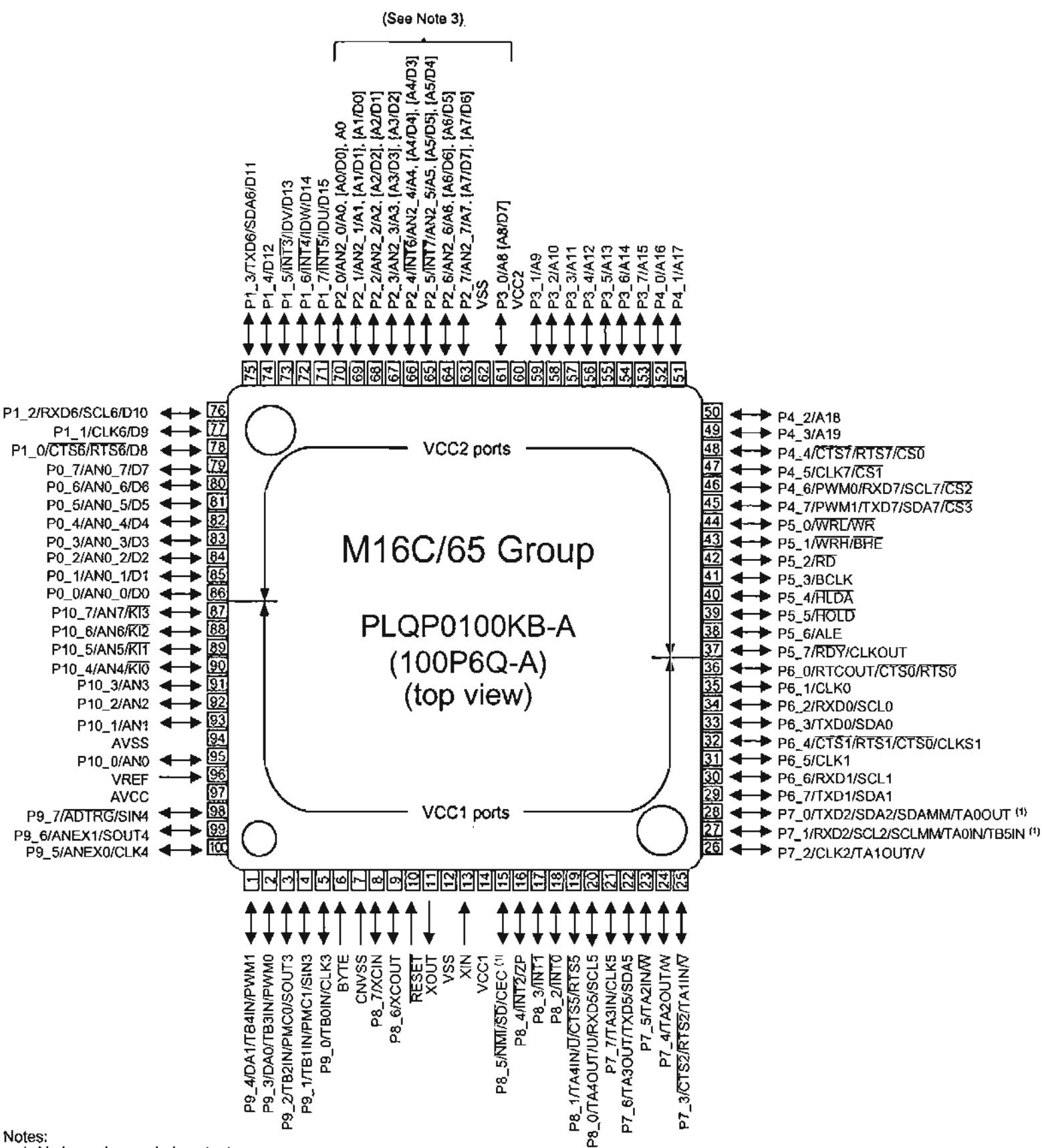
R5F64169DFD Terminal

Pin	Pin Name	Symbol	I/O	Type	Pullup	LvCnv	STBY	stop	Function
1	P96/TXD4	NC	O	C	-	-	O/L	O/L	
2	P95/(CLK4)	NC	O	C	-	-	O/L	O/L	
3	P94/(CTS4)	TU STB	O	C	-	3/5	O/L	O/L	PLL control pin(LC72131 & LC72720)
4	P93/(CTS3)	D.OSD M F0_BUSY	I	-	-	-	O/L	O/L	D.OSD CPU control pin
5	P92/TXD3	HDRADIO MOHI	O	C	-	-	O/L	O/L	HD RADIO control
6	P91/RXD3	HDRADIO MIHO	I	-	-	-	O/L	O/L	HD RADIO control
7	P90/(CLK3)	E POWER	O	C	-	-	O/L	O/L	ETHER POWER control pin
8	P146/INT8	POWER KEY	I	-	M3VPu	-	I	I	POWER KEY(WAIT MODE cancel interrupt port)
9	P145/INT7	(B.DOWN2)	I	-	M3VPu	-	I	I	Not used(Power down detect (Power down : L))
10	P144/INT6	PROTECTION (ASO/DC)	I	-	(3Vin)	-	I	I	PROTECTION detect pin(ASO/DC)
11	P143	CPU POWER	O	C	-	-	O/L	O/L	MAIN CPU POWER control pin (POWER ON: H)(ETHER=ON or CEC ON:STANDBY: H)
12	VDC0	VDC0	-	-	-	-	-	-	Smoothing capacitor connection pin
13	P141(NPUT ONLY)	REQ SOMI	I	-	-	-	I	O/L	MAIN-SUB μ com communication control output pin
14	VDC1	VDC1	-	-	-	-	-	-	Smoothing capacitor connection pin
15	NSD	NSD	-	-	M3VPu	-	-	-	Emulator communication pin
16	CNVss	CNVSS	-	-	Pd	-	-	-	Single-chip / Micro-processor mode switching (Normal single-chip: L, Rewrite boot program start: H input set)
17	P87/(XC N)	E RESET	O	C	Pd	-	O/L	O/L	ETHERNET RESET control pin
18	P86/(XCOUT)	232C POWER/REMOTE PWR	O	C	-	-	O/L	O/L	232C POWER control pin(ON: H)/REMOTE POWER
19	RESET	RESET	-	-	M3VPu	-	-	-	Reset input (reset: L)
20	XOUT	X2	-	-	-	-	-	-	Clock output
21	VSS	VSS	-	-	-	-	-	-	GND
22	XIN	X1	-	-	-	-	-	-	Clock input
23	VCC	VCC1	-	-	-	-	-	-	+3V
24	P85/NMI	NMI	I	-	M3V	-	I	I	Not used(Fixed to H)
25	P84/NT2	REMOTE DET	I	-	(3Vin)	-	I	I	ROOM TO ROOM signal detect pin(detected: H)
26	P83/NT1	B.DOWN	I	-	(3Vin)	-	I	I	Power down detect (Power down : L)
27	P82/NT0	REMOCON	I	-	3Vin/Pd	-	I	I	Remote control signal input
28	P81	FL CE1	O	C	-	(3/5)	O/L	O/L	FL display unit control pin
29	P80/RXD5	iPod RXD MII	I	N	(5Vin)	-	O/L	O/L	IPOD communication control pin
30	P77/CLK5	TU/RDS CLK	O	C	SW5VPu	3/5	O/L	O/L	PLL & RDS control pin (LC72131 & LC72720)
31	P76/TXD5	iPod TXD MII	O	C	(5Vin)	3/5	O/L	O/L	IPOD communication control pin
32	P75/RXD8	(SIRIUS MI)RDS DOUT	I	N	5Vin	-	O/L	O/L	SIRIUS control pin/RDS data inputpin(LC72720)
33	P74/CLK8	EXP DATA	O	C	-	(3/5)	O/L	O/L	Extended EXP control pin
34	P73/TXD8	(SIRIUS MO)/RDS CE	O	C	SW5VPu	3/5	O/L	O/L	SIRIUS control pin/RDS control pin(LC72720)
35	P72/CLK2	D.OSD CPU CLK	O	C	-	-	O/L	O/L	D.OSD CPU control pin
36	P71/RXD2/ (MSCL)	D.OSD CPU RX	I	-	-	-	O/L	O/L	D.OSD CPU control pin
37	P70/TXD2/ (MSDA)	D.OSD CPU TX	O	C	-	-	O/L	O/L	D.OSD CPU control pin
38	P67/TXD1	TXD M0232I	O	C	-	(3/5)	O/L	O/L	Data transfer pin to outside (AMX)/MITSUBISHI writer rewrite
39	VCC	VCC1	-	-	-	-	-	-	+3V
40	P66/RXD1	RXD M12320	I	-	-	-	I	O/L	Date receive pin from outside(AMX)/MITSUBISHI writer rewrite
41	VSS	VSS	-	-	-	-	-	-	GND
42	P65/CLK1/ SCLK(L)	EXP CLK	O	C	-	-	O/L	O/L	Extended EXP control pin
43	P64/BUSY	TU DOUT	I	N	(5Vin)	-	O/L	O/L	TUNER PLLdata inputpin (LC72131)
44	P63/TXD0	E_TXDMOEI	O	C	-	-	O/L	O/L	ETHERNET comm. control pin
45	P62/RXD0	E_RXDMIE0	I	-	-	-	I	O/L	ETHERNET comm. control pin
46	P61/CLK0	FL CLK	O	C	-	-	O/L	O/L	FL display unit control pin
47	P60/CTS0	FL DATA	O	C	-	-	O/L	O/L	FL display unit control pin
48	P137	ACK S MO	O	C	-	-	O/L	O/L	MAIN-SUB μ com comm. control output pin
49	P136/ISCLK2	CLKMO	O	C	-	-	O/L	O/L	MAIN-SUB μ com comm. control output pin
50	P135/ISRXD2	SOMI	I	-	-	-	I	O/L	MAIN-SUB μ com comm. control output pin
51	P134/ISTXD2	MOSI	O	C	-	-	O/L	O/L	MAIN-SUB μ com comm. control output pin
52	P57/(RDY)	NC	O	C	M3VPu	-	I	I	
53	P56/(ALE)	NC	O	C	-	-	O/L	O/L	
54	P55/(HOLD)/ EPM	FRASH EPM	I	C	M3VPu	-	I	I	Rewrite boot program start : L input set
55	P54/(HLDA)	NC	O	C	-	-	O/L	O/L	
56	P133	MUTE POWER	O	C	-	-	O/L	O/L	MUTE +B control pin
57	VSS	VSS	-	-	-	-	-	-	GND
58	P132	D.OSD MOFI_BUSY	O	C	-		O/L	O/L	D.OSD CPU control pin

Pin	Pin Name	Symbol	I/O	Type	Pullup	LvCnv	STBY	stop	Function
59	VCC	VCC2	-	-	-	-	-	-	+3V
60	P131	NC	O	C	-	-	O/L	O/L	
61	P130	NC	O	C	-	-	O/L	O/L	
62	P53/(BCLK)	NC	O	C	-	-	O/L	O/L	
63	P52/(RD)	NC	O	C	-	-	O/L	O/L	
64	P51/(WR1)/(BC1)	NC	O	C	-	-	O/L	O/L	
65	P50/(WR0)/(WR)/CE	FRASH CE	I	C	Pd	-	O/L	O/L	Rewrite boot program start : H input set
66	P127	VSEL A	I	-	SW3VPu	-	I	I	Master Volume rotation detect input (Rotary encoder)
67	P126	VSEL B	I	-	SW3VPu	-	I	I	Master Volume rotation detect input (Rotary encoder)
68	P125	PROTECTION (THERMAL)	I	-	-	-	O/L	O/L	PROTECTION detect pin(THERMAL)
69	P47/CS0/(A23)	NC	O	C	-	-	O/L	O/L	
70	P46/(CS1)/(A22)	NC	O	C	-	-	O/L	O/L	
71	P45/(CS2)/(A21)	DYNAMIC EQ LED RED	O	C	-	-	O/L	O/L	Dynamic EQ RED LED control pin
72	P44/(CS3)/(A20)	DYNAMIC EQ LED GRN	O	C	-	-	O/L	O/L	Dynamic EQ RED LED control pin
73	P43/(A19)	PRE SBR MUTE	O	C	-	-	O/L	O/L	PRE OUT MUTE control
74	VCC	VCC	-	-	-	-	-	-	+3V
75	P42/(A18)	THERMAL ON	I	-	SW3VPu	-	O/L	O/L	Thermal detect pin(HIGH B RL control)
76	VSS	VSS	-	-	-	-	-	-	GND
77	P41/(A17)	THERMAL OFF	I	-	SW3VPu	-	O/L	O/L	Thermal detect pin(HIGH B RL control)
78	P40/(A16)	FAN DET	I	-	-	-	O/L	O/L	
79	P37/(A15)	iPod DOCK DET	I	-	SW3VPu	-	O/L	O/L	MINI JACK connected detection pin for DOCK connection (connected:H)
80	P36/(A14)	NC	O	C	-	-	O/L	O/L	
81	P35/(A13)	NC	O	C	-	-	O/L	O/L	
82	P34/(A12)	TUNED	I	-	SW3VPu	-	O/L	O/L	TUNER turned detect (Detected : L)
83	P33/(A11)	232C CONTROL	O	C	-	-	O/L	O/L	232C control pin
84	P32/(A10)	PRE Z3 MUTE	O	C	-	-	O/L	O/L	Z3 PRE OUT MUTE control
85	P31/(A9)	PRE Z2 MUTE	O	C	-	-	O/L	O/L	Z2 PRE OUT MUTE control
86	P124	EXP STB	O	C	-	-	O/L	O/L	Extended EXP control pin
87	P123	EXP OE	O	C	Pd	-	O/L	O/L	Extended EXP control pin
88	P122/(RXD6)	EEPROM SCL	I/O	C		-	O/L	I	EEPROM control pin
89	P121/(CLK6)	EEPROM SDA	I/O	C		-	O/L	I	EEPROM control pin
90	P120/(TXD6)	TUR/RDS D N	O	C	SW5VPu	-	O/L	O/L	PLL & RDS control pin (LC72131 & LC72720)
91	VCC	VCC	-	-	-	-	-	-	+3V
92	P30/(A8)	PRE SWMUTE	O	C	-	-	O/L	O/L	PRE OUT MUTE control
93	VSS	VSS	-	-	-	-	-	-	GND
94	P27/(A7)	PRE SBL MUTE	O	C	-	-	O/L	O/L	PRE OUT MUTE control
95	P26/(A6)	PRE S MUTE	O	C	-	-	O/L	O/L	PRE OUT MUTE control
96	P25/(A5)	PRE C MUTE	O	C	-	-	O/L	O/L	PRE OUT MUTE control
97	P24/(A4)	PRE F MUTE	O	C	-	-	O/L	O/L	PRE OUT MUTE control
98	P23/(A3)	SCPU POWER	O	C	-	-	O/L	O/L	SUB CPU POWER ON/OFF switching (H : ON)
99	P22/(A2)	D5V POWER	O	C	-	-	O/L	O/L	DIGITAL 5V power control pin
100	P21/(A1)	STEREO	I	-	SW3VPu	-	O/L	O/L	TUNER FM stereo receive : L
101	P20/(A0)	SIRIUS RESET/RDS RESET	O	C	-	-	O/L	O/L	SIRIUS control pin/RDS control pin(LC72720)
102	P17/(D15)	FL RST	O	C	-	-	O/L	O/L	FL display unit control pin
103	P16/(D14)	MAIN POWER	O	C	-	-	O/L	O/L	ETHERNET control pin
104	P15/(D13)	TMUTE	O	C	-	-	O/L	O/L	TUNER MUTE control (MUTE:L)
105	P14/(D12)	HD POWER	O	C	-	-	O/L	O/L	HDRADIO POWER control pin
106	P13/(D11)	RST SUB	O	C	-	-	O/L	O/L	SUB-μcom reset output
107	P12/(D10)	D.OSD CPU RST	O	C	-	-	O/L	O/L	D.OSD CPU control pin
108	P11/(D9)	NC	O	C	-	-	O/L	O/L	
109	P10/(D8)	NC	O	C	-	-	O/L	O/L	
110	P07/(D7)	TRIGGER 2	O	C	-	-	O/L	O/L	TRIGGER OUT control pin
111	P06/(D6)	TRIGGER 1	O	C	-	-	O/L	O/L	TRIGGER OUT control pin
112	P05/(D5)	NC	O	C	-	-	O/L	O/L	
113	P04/(D4)	HDRADIO RESET	O	C	-	-	O/L	O/L	HDRADIO control pin
114	P114	ISEL A	I	-	SW3VPu	-	I	I	Input Selector rotation detect input (Rotary encoder)
115	P113	ISEL B	I	-	SW3VPu	-	I	I	Input Selector rotation detect input (Rotary encoder)
116	P112/(RXD8)	VOL STB1/VOL STB2	O	C	-	(3/5)	O/L	O/L	FUNCTION/VOLUME control(NJW1199)(NJW1194)
117	P111/	VOL CLK	O	C	-	(3/5)	O/L	O/L	FUNCTION/VOLUME control(NJW1199)(NJW1194)
118	P110/(TXD8)	VOL DATA	O	C	-	(3/5)	O/L	O/L	FUNCTION/VOLUME control(NJW1199)(NJW1194)
119	P03/(D3)	HD AUDIO LED	O	C	-	-	O/L	O/L	HD AUDIO LED control pin
120	P02/(D2)	GRNLED	O	C	-	-	O/L	O/L	POWER/STANDBY LED control pin(ON:H)

Pin	Pin Name	Symbol	I/O	Type	Pullup	LvCnv	STBY	stop	Function
121	P01/(D1)	A+B LIMIT	O	C	-	-	O/L	O/L	A+B LIMIT control (SURROUND SPEAKER A+B:H)
122	P00/(D0)	LIMIT	O	C	-	-	O/L	O/L	LIMIT control(7ch ST or EXT.IN: H)or(L MIT DET=45secL*: H)
123	P157	(iPod Det_HD)	I	-	-	-	O/L	O/L	Not used(ipod Det from HD Radio)
124	P156	E SPI REQ	I	-	Pd	-	O/L	O/L	ETHERNET comm. control pin
125	P155/RXD6	NC	O	C	-	-	O/L	O/L	
126	P154/TXD6	NC	O	C	-	-	O/L	O/L	
127	P153	E SPI CS	O	C	-	-	O/L	O/L	ETHERNET comm. control pin
128	P152/RXD7	E SPI MIE0	I	-	Pd	-	O/L	O/L	ETHERNET comm. control pin
129	P151/CLK7	E SPI CLK	O	C	Pd	-	O/L	O/L	ETHERNET comm. control pin
130	VSS	VSS	-	-	-	-	-	-	GND
131	P150/TXD7	E SPI MOEI	O	C	Pd	-	O/L	O/L	ETHERNET comm. control pin
132	VCC	VCC	-	-	-	-	-	-	+3V
133	P107/(AN7)/ (K13)	D.OSD WRITE	O	C	-	-	O/L	O/L	D.OSD rewrite control pin
134	P106/AN6/KI2	KEY3	I	-	M3VPu	-	I	I	Button input3
135	P105/AN5/KI1	KEY2	I	-	M3VPu	-	I	I	Button input2
136	P104/AN4/KI0	KEY1	I	-	M3VPu	-	I	I	Button input1
137	P103/AN3	SUB UPDATE	O	C	-	-	O/L	O/L	SUB UPDATE mode control(DPMS/DENON WRITER) (MAIN: L SIB: H)
138	P102/AN2	MIC DET/H/P DET/X2 PROT/L MIT	I	-	SW3VPu	-	O/L	O/L	MIC detect pin/Headphone/voltage-doubler detect pin/L MIT judge signal detect input (A/D detect)
139	P101/(AN1)	REDLED	O	C	-	-	O/H	O/L	POWER/STANDBY LED control pin(ON: H)
140	AVSS	AVSS	-	-	-	-	-	-	Analog GND
141	P100/AN0	MODE	I	-	M3VPu	-	I	I	Destination switching input
142	VREF	VREF	-	-	-	-	-	-	Ref. power supply input +3V
143	AVCC	AVCC	-	-	-	-	-	-	Analog Power supply +3V
144	P97/RXD4	NC	O	C	-	-	O/L	O/L	

R5F3650TNFB (DI: IC901)



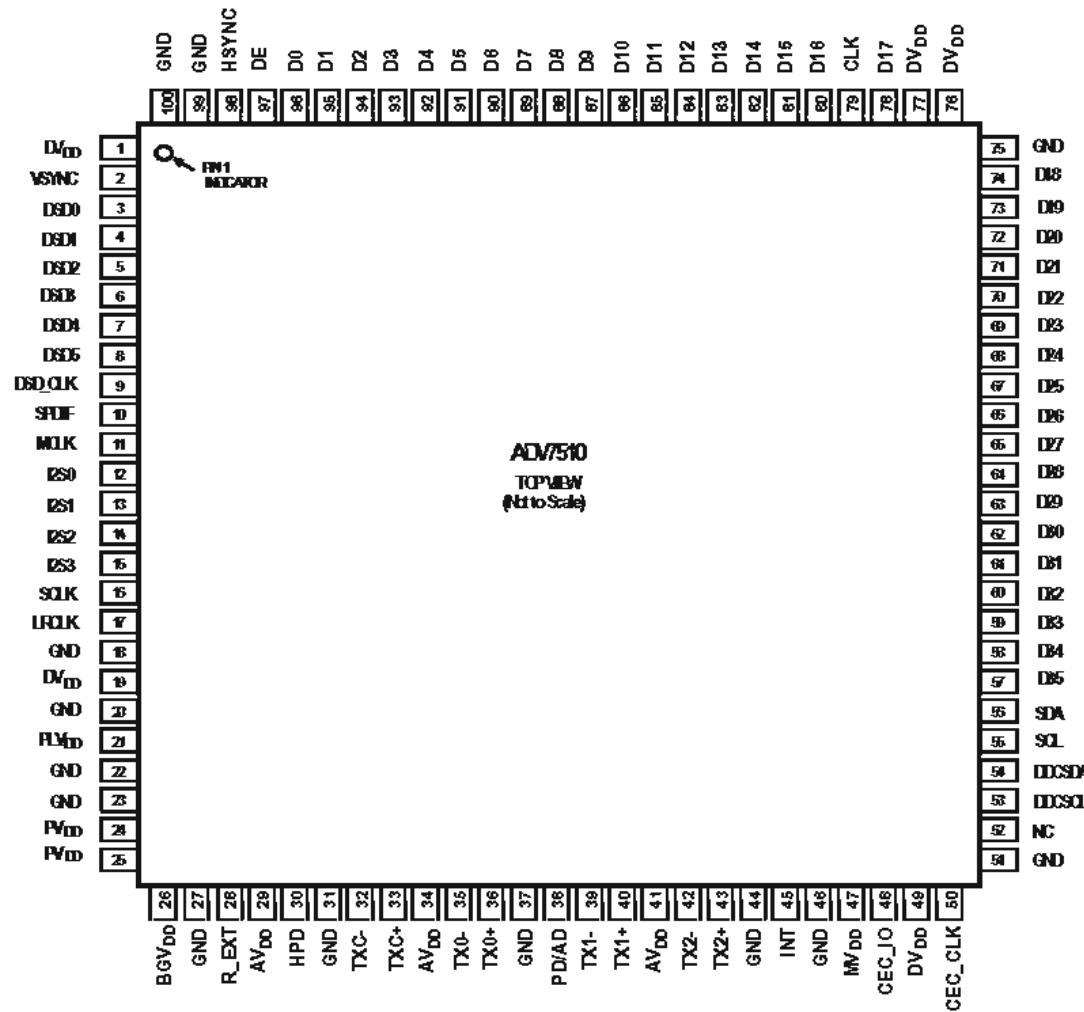
R5F3650TNFB Terminal Function

Pin	Pin Name	Symbol	I/O	Type	Det	Op (Int.)	Pu/Pd (Ext.)	Res	PURE D	CEC STBY	P.OFF	Function
1	P94	VPLD DATA	O	C	-	-	-	Z	O/L	O/L	Z	VIDEO PLD control pin
2	P93	DIR CE	O	C	-	-	-	Z	O/L	O/L	Z	D R control pin (LC89058W-VF4A)
3	P92/SOUT3	DIR DIN	O	C	-	-	-	Z	O/L	O/L	Z	D R control pin (LC89058W-VF4A)
4	P91/SIN3	DIR DOUT	I	-	Lv	-	Eu	Z	-	-	Z	D R control pin (LC89058W-VF4A)
5	P90/CLK3	DIR CLK	O	C	-	-	-	Z	O/L	O/L	Z	D R control pin (LC89058W-VF4A)
6	BYTE	BYTE	-	-	-	-	-	-	-	-	-	GND(Ext. data bus bit width switching, 16bit : L)
7	CNVCS	CNVSS	-	-	-	-	Ed47k	-	-	-	-	Single-chip / Micro-processor mode switching (Normal single-chip : L, Rewrite boot program start : H input set)
8	P87	OSR2	O	C	-	-	Eu	Z	O/H	O/L	Z	A/D control pin
9	P86	DIR CE4	O	C	-	-	-	Z	O/L	O/L	Z	D R control pin (LC89058W-VF4A)
10	RESET	SUBRESET	I	-	Lv	-	Eu	L	-	-	Z	Reset input
11	XOUT	X1	O	-	-	-	-	-	-	-	-	Oscillator connection
12	VSS	VSS	-	-	-	-	-	-	-	-	-	GND
13	XIN	X2	I	-	-	-	-	-	-	-	-	Oscillator connection
14	VCC	VCC	-	-	-	-	-	-	-	-	-	+3.3V
15	P85/NMI/(CEC)	NMI/(CEC_IN)	I	-	-	-	-	-	-	-	-	Fixed to H
16	P84/ NT2	CEC_N	I	-	E↓ &L	-	Eu	Z	-	-	Z	CEC-D signal input pin
17	P83/INT1	ACK S MO	I	-	E↓ &L	-	Ed	Z	-	-	Z	MAIN-SUB μcom comm. control input pin

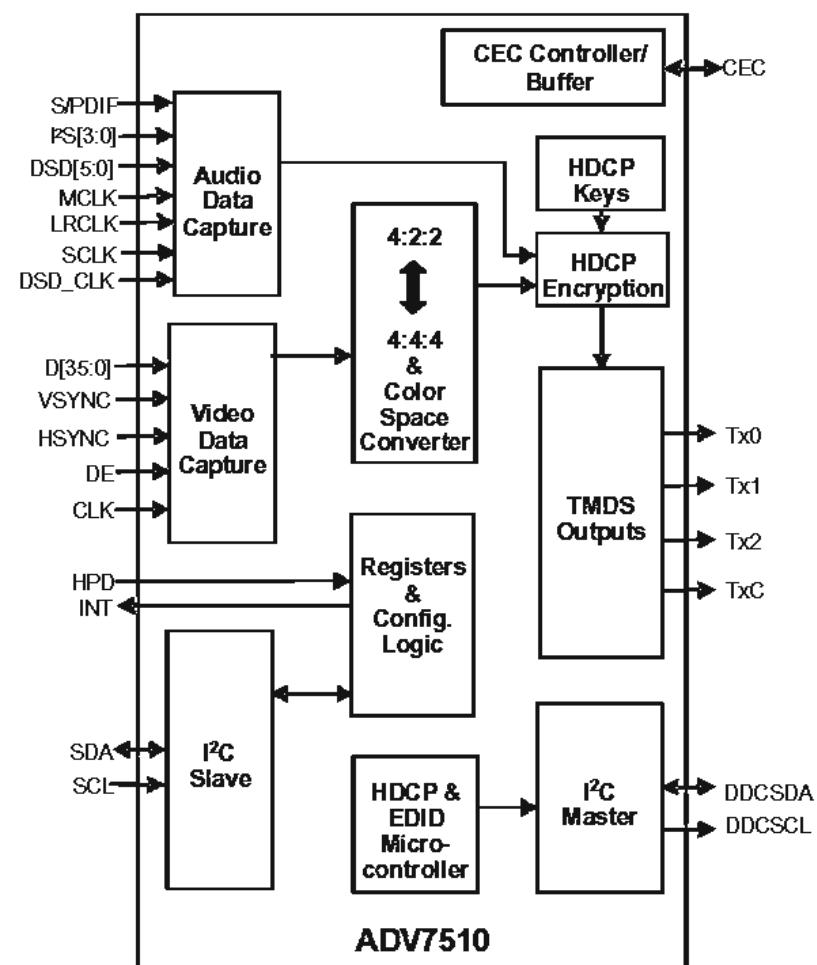
Pin	Pin Name	Symbol	I/O	Type	Def	Op (Int.)	Pu/Pd (Ext.)	Res	PURED	CEC STBY	P.OFF	Function
18	P82/INT0	SUB BDOWN	I	-	E↓ &L		Eu	Z	-	-	Z	Power down detect (Power down: L)
19	P81	IP RST	O	C	-	-	-	Z	O/H	O/H	Z	IP CONV(ABT2010) reset
20	P80/(RXD5)	VZ2INH	O	C	-	-	-	Z	O/L	O/L	Z	Video input switching(Z2 INPUT NH selection)
21	P77/(CLK5)	/TDO	I	-	-	-	-	Z	O/L	O/L	Z	/PLD rewrite control (JTAG)
22	P76/(TXD5)	A PLD CS /TMS/ "DM"	O	C	-	-	Eu	Z	O/L	-	O/L	A PLD control pin /PLD rewrite (JTAG)/DENON WRITER/For MITSUBISHI rewrite distinction (DW="L")
23	P75	A PLD DATA/TDI	O	C	-	-	-	Z	O/L	O/L	Z	A PLD control pin /PLD rewrite control (JTAG)
24	P74	A PLD CLK/ MTCK	O	C	-	-	-	Z	O/L	O/L	Z	A PLD control pin /PLD rewrite control (JTAG)
25	P73/CTS2	ANALOG VIDEO POWER	O	C	-	-	-	Z	O/L	O/L	Z	VIDEO power ON/OFF control (H: ON)
26	P72/CLK2	DIGITAL POWER	O	C	-	-	Ed	Z	Z	-	Z	DIGITAL power ON/OFF control (H: ON)
27	P71/RXD2/ SCLMM	HSCL(400k)	I/O	N	-	-	Eu	Z	O/L	O/L	O/L	VIDEO I2C- IP CONV(ABT2010)/ HDMI RECEIVER(ADV7840)/HDMI TRANSMITTER1 (ADV7510)
28	P70/TXD2/ SDAMM	HSDA(400k)	I/O	N	-	-	Eu	Z	O/L	O/L	O/L	VIDEO I2C- IP CONV(ABT2010)/ HDMI RECEIVER(ADV7840)/HDMI TRANSMITTER1 (ADV7510)
29	P67/TXD1	TXD	O	C	-	-	Eu	Z	-	-	Z	Data transfer output to outside
30	P66/RXD1	RXD	I	-	Lv	-	Eu	Z	-	-	Z	Data receive input from outside
31	P65/CLK1	FGAN	O	C	-	-	Ed	Z	-	O/L	Z	FGAIN control pin
32	P64/CTS1	CFSEL0	I	-	Lv	-	-	Z	-	-	Z	COMPONENT HD OUT Filter switching
33	P63/TXD0	SOMI	O	C	-	-	-	Z	-	-	Z	MAIN-SUB μcom comm. control pin
34	P62/RXD0	SIMO	I	-	-	-	Ed	Z	-	-	Z	MAIN-SUB μcom comm. control pin
35	P61/CLK0	CLK SIMO	I	-	-	-	Ed	Z	-	-	Z	MAIN-SUB μcom comm. control pin
36	P60/CTS0	REQ SOMI	O	C	-	-	Ed	Z	-	-	Z	MAIN-SUB μcom comm. control pin
37	P57	1TMDS SWRST	O	C	-	-	-	Z	O/H	-	Z	HDMI SWITCHER ADV3002 Reset pin
38	P56	HPD2	O	C	-	-	-	Z	O/L	-	Z	HD DET control pin
39	P55/EPM	ADC RST/EPM	O	C	-	-	Ed	Z	-	-	Z	AD(PCM1804) control pin /Rewrite boot start : L input set
40	P54	CEC_OUT	O	C	-	-	-	Z	O/L	-	Z	CEC-D signal output pin
41	P53	MON1DIS	O	C	-	-	-	Z	O/L	O/L	Z	COMPONENT MONITOR OUT output control pin
42	P52	DVR INH	O	C	-	-	-	Z	O/L	O/L	Z	DVR OUT output INH control(L:MUTE)
43	P51	VCR INH	O	C	-	-	-	Z	O/L	O/L	Z	VCR OUT output INH control(L:MUTE)
44	P50/CE	/CE	O	-	-	-	Eu	Z	O/L	-	Z	pin/ rewrite boot program start : H input set
45	P47/(TXD7)/ SDA7	VSDA	I/O	C	-	-	Eu	Z	O/L	-	O/L	ENCODER ADV7340 I2C/COMPONENT SELECT IC(NJW1321FP1)
46	P46/(RXD7)/ SCL7	VSCL	I/O	C	-	-	Eu	Z	O/L	-	O/L	ENCODER ADV7340 I2C/COMPONENT SELECT IC(NJW1321FP1)
47	P45/(CLK7)	HPD1	O	C	-	-	Ed	Z	O/L	-	Z	HD DET control pin
48	P44	Z2 MONIA	O	C	-	-	Ed	Z	O/L	O/L	Z	ZONE2 MONITOR OUT select
49	P43	HDMI A SEL	O	C	-	-	Ed	Z	O/L	O/L	Z	HDMI AUDIO control (H: FDSP route, L: FHDMI Rx A® Tx through)
50	P42	Z2SSIGDET	I	-	Lv	-	Ed	Z	I	I	Z	ZONE2 S signal detect input (Connected: H)
51	P41	CEC PWR	O	C	-	-	Ed	Z	O/L	O/H	Z	H:CEC STANDBY Power ON
52	P40	Z1 SMONIA	O	C	-	-	-	Z	O/L	O/L	Z	Z1 S MONITOR select
53	P37	HDMIR_RST	O	C	-	-	Eu	Z	O/H	-	Z	HDMI RECEIVER(ADV7840) reset
54	P36	1TX RST	O	C	-	-	Eu	Z	O/H	-	Z	HDMI TRANSMITTER1 (ADV7510) reset
55	P35	Z1 SMONIB	O	C	-	-	Ed	Z	O/L	O/L	Z	Z1 SMONITOR select
56	P34	Z1 SSIGDET	I	-	-	-	Eu	Z	-	-	Z	S signal detect input (Connected: H)
57	P33	VZ1INH	O	C	-	-	Ed	Z	O/L	-	Z	Video input switching(Z1 INPUT NH selected)
58	P32	DAC MDI	O	C	-	-	-	Z	O/L	O/L	Z	DAC control pin (AK4358)
59	P31	DAC MC	O	C	-	-	-	Z	O/L	O/L	Z	DAC control pin (AK4358)
60	VCC	VCC	-	-	-	-	-	-	-	-	-	+3.3V
61	P30	DAC MS	O	C	-	-	-	Z	O/L	O/L	Z	DAC control pin (AK4358)
62	VSS	VSS	-	-	-	-	-	-	-	-	-	GND
63	P27	DAC RST	O	C	-	-	-	Z	O/H	O/L	Z	DAC control pin (AK4358)
64	P26	DIG VIDEO POWER	O	C	-	-	-	Z	O/L	MODE1=O/H MODE2=O/L	Z	DIGITAL VIDEO power control pin
65	P25/NT7	OSD CPU BUSYSI	I	-	Lv	-	-	Z	-	-	Z	OSD CPU control pin
66	P24/NT6	1TX NT	I	-	Lv	-	-	Z	-	-	Z	HDMI OUT1 signal detect input (HDMI TRANS1 ADV7510)
67	P23	NC	O	C	-	-	-	Z	O/L	O/L	Z	NC
68	P22	VEXP STB	O	C	-	-	-	Z	O/L	O/L	Z	VIDEO expander control pin output(BU4094BCFV)
69	P21	VEXP OE	O	C	-	-	Ed	Z	O/L	O/L	Z	VIDEO expander control pin output(BU4094BCFV)
70	P20	VEXP CLK	O	C	-	-	-	Z	O/L	O/L	Z	VIDEO expander control CLK output(BU4094BCFV)
71	P17/NT5	ADVINT1	I	-	E↓ &L	-	-	Z	-	-	Z	HDMI RECEIVER(ADV7840)INT1 output
72	P16/NT4	ADVINT2	I	-	E↓ &L	-	-	Z	-	-	Z	HDMI RECEIVER(ADV7840)INT2 output

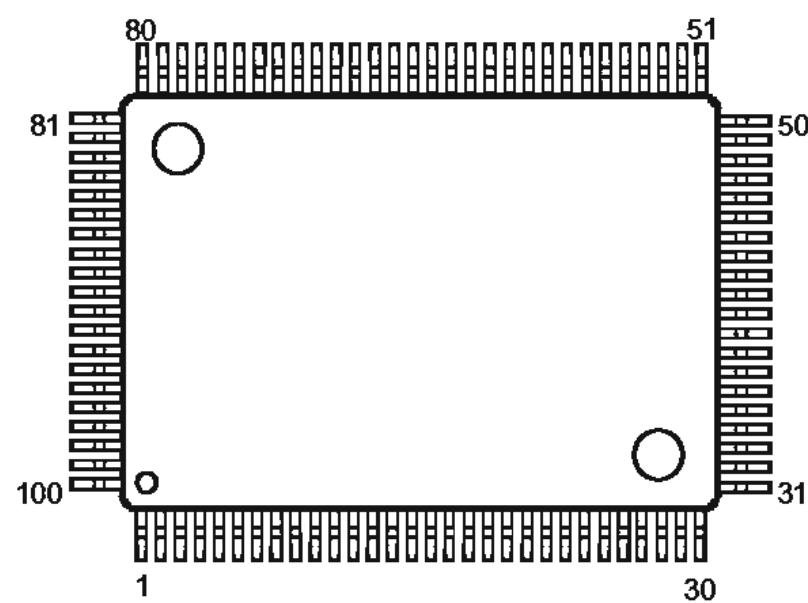
Pin	Pin Name	Symbol	I/O	Type	Def	Op (Int.)	Pu/Pd (Ext.)	Res	PURED	CEC STBY	P.OFF	Function
73	P15/NT3	ADVINT3	I	-	E↓ &L	-	-	Z	-	-	Z	HDMI RECEIVER(ADV7840)INT3 output
74	P14	Z2 MON B	O	C	-	-	Eu	Z	O/L	O/L	Z	ZONE2 MONITOR OUT select
75	P13/TXD6	DSP MOSI	O	C	-	-	Eu	Z	O/L	O/L	Z	DSP control pin (ADSP-21367-333)
76	P12/RXD6	DSP MISO	I	-	-	-	Eu	Z	-	-	Z	DSP control pin (ADSP-21367-333)
77	P11/CLK6	DSPCLK	O	C	-	-	Eu	Z	O/L	O/L	Z	DSP control pin (ADSP-21367-333)
78	P10	Z1VSIG.DET	I	-	Lv	-	Eu	Z	-	-	Z	VIDEO IN signal detect input (Detected : H)
79	P07	PLD WRITE	O	C	-	-	-	Z	O/L	O/L	Z	PLD JTAGLINE ON/OFF control
80	P06	VPLD CE	O	C	-	-	Ed	Z	O/L	MODE1=O/H MODE2=O/L	Z	VIDEO PLD control pin
81	P05	HPD3	O	C	-	-	-	Z	O/L	-	Z	HD DET control pin
82	P04	HPD4	O	C	-	-	-	Z	O/L	-	Z	HD DET control pin
83	P03	HPD5	O	C	-	-	-	Z	O/L	-	Z	HD DET control pin
84	P02	DIR RST3	I	-	Lv	-	-	Z	-	-	Z	DR control pin (LC89058W-VF4A)
85	P01	DIR RST2	O	C	-	-	-	Z	O/L	O/L	O/L	DR control pin (LC89058W-VF4A)
86	P00	DIR RST1	O	C	-	-	-	Z	O/L	O/L	O/L	DR control pin (LC89058W-VF4A)
87	P107/(AN7)	DSP RST	O	C	-	-	-	Z	O/L	O/L	Z	DSP2(ADSP-21367-333) reset output pin(Reset:L)
88	P106/(AN6)		O	C	-	-	-	Z	O/L	O/L	Z	
89	P105/(AN5)	DSP ROMRST	O	C	-	-	Ed	Z	O/L	O/L	Z	DSP memory reset(reset:L)
90	P104/(AN4)	COMPDET	I	-	Lv	-	Eu	Z	-	-	Z	COMPONENT N signal detect input
91	P103/(AN3)	DSP FLAG0	I	-	Lv	-	Ed	Z	-	-	Z	DSP control pin (ADSP-21367-333)
92	P102/(AN2)	DSPICS	O	C		-	Eu	Z	O/L	O/L	Z	DSP control pin (ADSP-21367-333)
93	P101/(AN1)		O	C		-	Eu	Z	O/L	O/L	Z	
94	AVSS	AVSS	-	-	-	-	-	-	-	-	-	AD GND
95	P100/(AN0)	VPLD CLK	O	C	-	-	-	Z	O/L	O/L	Z	VIDEO PLD control pin
96	VREF	VREF	-	-	-	-	-	-	-	-	-	AD ref. +3.3V
97	AVCC	AVCC	-	-	-	-	-	-	-	-	-	AD +3.3V
98	P97/(SIN4)		O	C	-	-	-	Z	O/L	-	Z	
99	P96/(SOUT4)	OSD CPU BUSYS0	O	C	-	-	-	Z	O/L	O/L	Z	OSD CPU control pin
100	P95/(CLK4)	VEXP DIN	O	C	-	-	-	Z	O/L	O/L	Z	VIDEO expander control DATA output(BU4094BCFV)

ADV7510BSTZ-225 (DI: IC701)



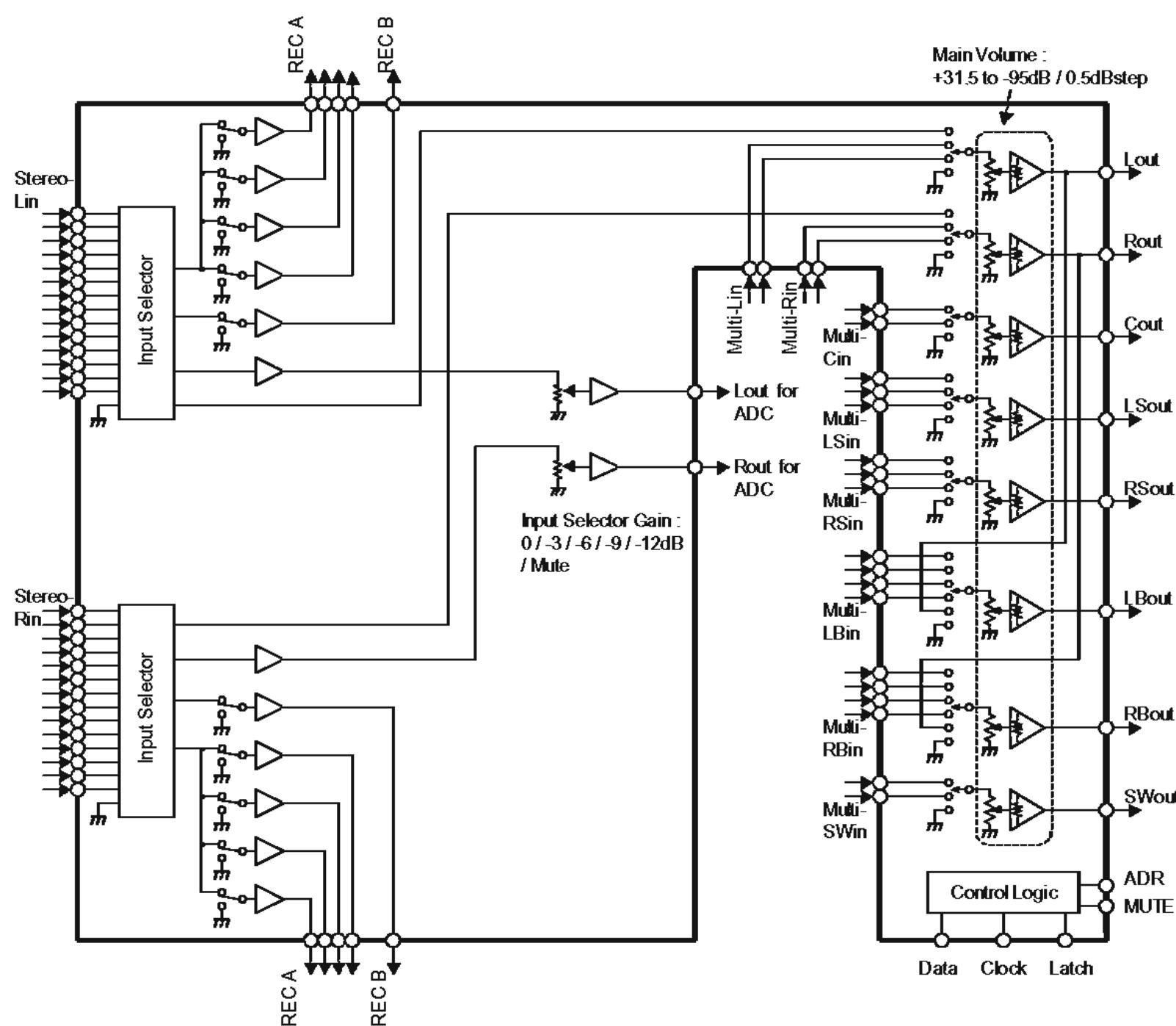
ADV7510BSTZ-225 Terminal Function



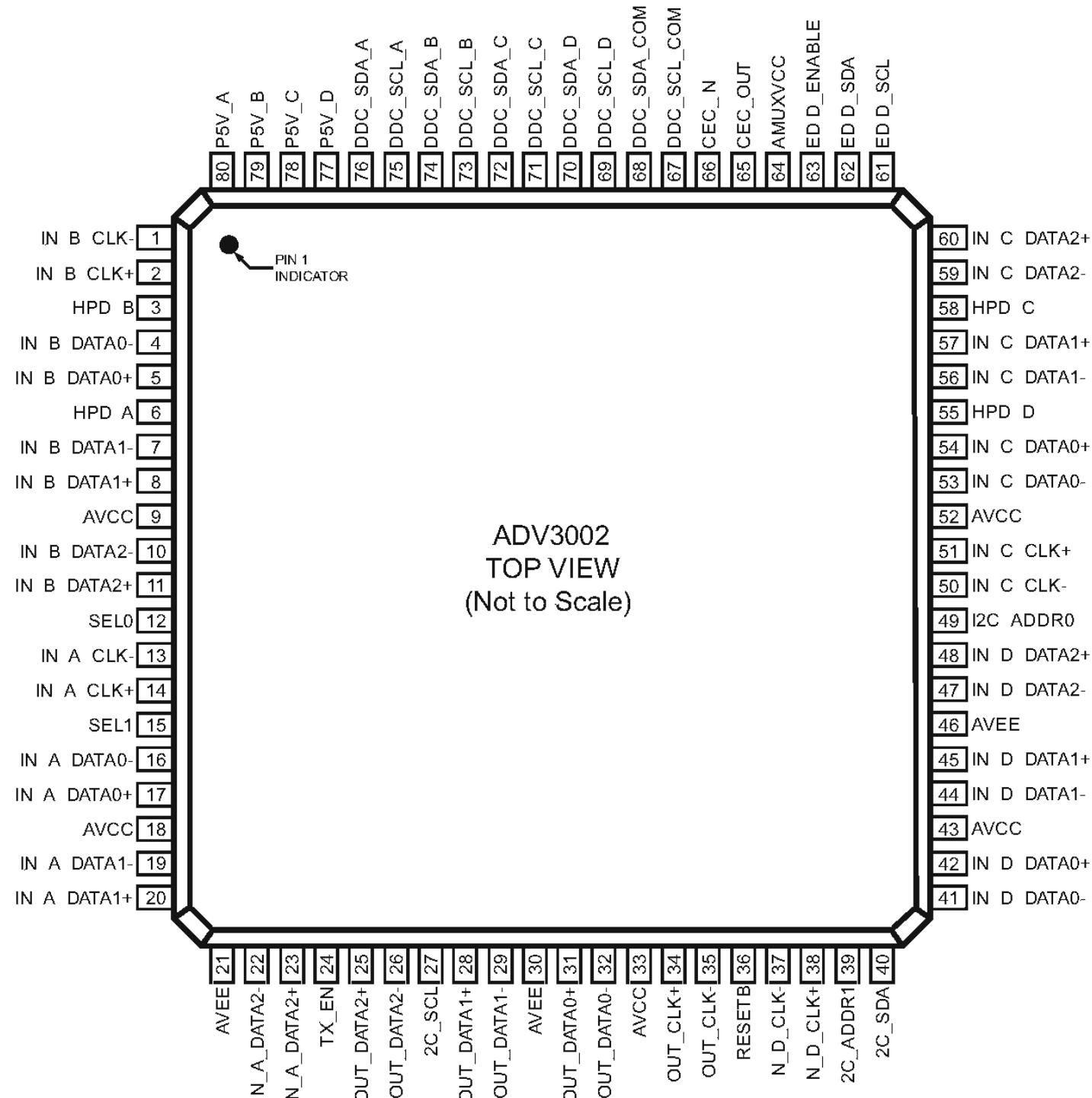


No.	PIN NAME	Function	No.	PIN NAME	Function
1	ROUT	Rch output	51	R10IN	Input selector Rch Input 10
2	COUT	Cch output	52	L13IN	Input selector Lch Input 13
3	LS OUT	LSch output	53	L11IN	Input selector Lch Input 11
4	RS OUT	RSch output	54	R13IN	Input selector Rch Input 13
5	LB OUT	LBch output	55	R11IN	Input selector Rch Input 11
6	RB OUT	RBch output	56	GND	GND terminal
7	SWOUT	SWch output	57	REC_B1R	Input selector Rch REC output B1
8	N.C.	Non	58	REC_B1L	Input selector Lch REC output B1
9	N.C.	Non	59	REC_A4R	Input selector Rch REC output A4
10	N.C.	Non	60	REC_A4L	Input selector Lch REC output A4
11	N.C.	Non	61	REC_A3R	Input selector Rch REC output A3
12	V+	+ Power-supply voltage	62	REC_A3L	Input selector Lch REC output A3
13	L1IN	Input selector Lch Input 1	63	REC_A2R	Input selector Rch REC output A2
14	V-	- Power-supply voltage	64	REC_A2L	Input selector Lch REC output A2
15	R1IN	Input selector Rch Input 1	65	REC_A1R	Input selector Rch REC output A1
16	ADR	Terminal for address selection	66	REC_A1L	Input selector Lch REC output A1
17	L2IN	Input selector Lch Input 2	67	VDDOUT	Logic power supply output terminal
18	DCCAP_L	ICapacitor for volume control switching noise removal Lch	68	DATA	IC control data input
19	R2IN	Input selector Rch Input 2	69	CLOCK	IC control clock input
20	DCCAP_R	ICapacitor for volume control switching noise removal Rch	70	LATCH	IC control latch input
21	L3IN	Input selector Lch Input 3	71	MUTE	External mute control
22	DCCAP_C	ICapacitor for volume control switching noise removal Cch	72	ROUT_ADC	Rch output for ADC
23	R3IN	Input selector Rch Input 3	73	LOUT_ADC	Lch output for ADC
24	DCCAP_LS	ICapacitor for volume control switching noise removal LSch	74	GND	GND terminal
25	L4IN	Input selector Lch Input 4	75	LBDIN	Multichannel LBch input D
26	DCCAP_RS	ICapacitor for volume control switching noise removal RSch	76	RBDIN	Multichannel RBch input D
27	R4IN	Input selector Rch Input 4	77	LSCIN	Multichannel LSch input C
28	DCCAP_LB	ICapacitor for volume control switching noise removal LBch	78	RSCIN	Multichannel RSch input C
29	L5IN	Input selector Lch Input 5	79	LBCIN	Multichannel LBch input C
30	DCCAP_RB	ICapacitor for volume control switching noise removal RBch	80	RBCIN	Multichannel RBch input C
31	R5IN	Input selector Rch Input 5	81	GND	GND terminal
32	DCCAP_SW	ICapacitor for volume control switching noise removal SWch	82	LAIN	Multichannel Lch input A
33	L6IN	Input selector Lch Input 6	83	RAIN	Multichannel Rch input A
34	L14N	Input selector Lch Input 14	84	CAIN	Multichannel Cch input A
35	R6IN	Input selector Rch Input 6	85	LSAIN	Multichannel LSch input A
36	R14N	Input selector Rch Input 14	86	RSAIN	Multichannel RSch input A
37	L7IN	Input selector Lch Input 7	87	LBAIN	Multichannel LBch input A
38	GND	GND terminal	88	RBAIN	Multichannel RBch input A
39	R7IN	Input selector Rch Input 7	89	SWAIN	Multichannel SWch input A
40	GND	GND terminal	90	GND	GND terminal
41	L8IN	Input selector Lch Input 8	91	LBIN	Multichannel Lch input B
42	GND	GND terminal	92	RBIN	Multichannel Rch input B
43	R8IN	Input selector Rch Input 8	93	CBIN	Multichannel Cch input B
44	GND	GND terminal	94	LSBIN	Multichannel LSch input B
45	L9IN	Input selector Lch Input 9	95	RSBIN	Multichannel RSch input B
46	GND	GND terminal	96	LBBIN	Multichannel LBch input B
47	R9IN	Input selector Rch Input 9	97	RBBIN	Multichannel RBch input B
48	L12IN	Input selector Lch Input 12	98	SWBIN	Multichannel SWch input B
49	L10IN	Input selector Lch Input 10	99	GND	GND terminal
50	R12IN	Input selector Rch Input 12	100	LOUT	Lch output

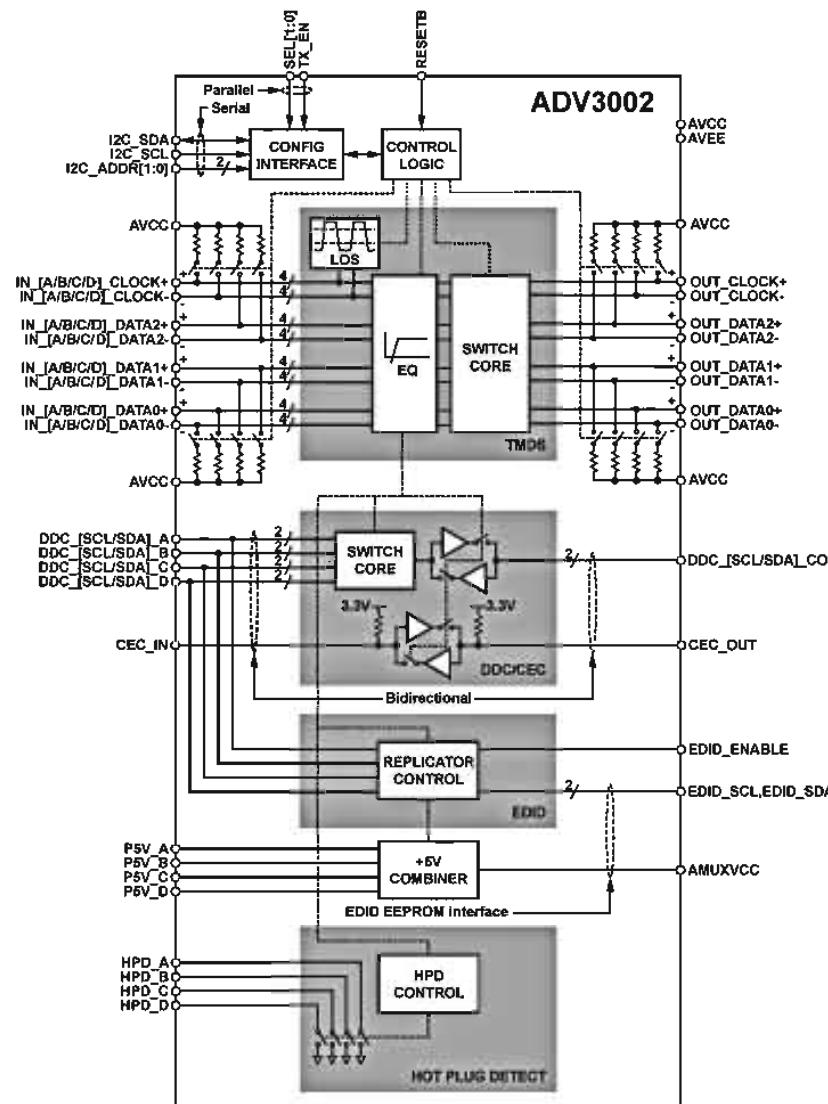
Functional Block Diagram



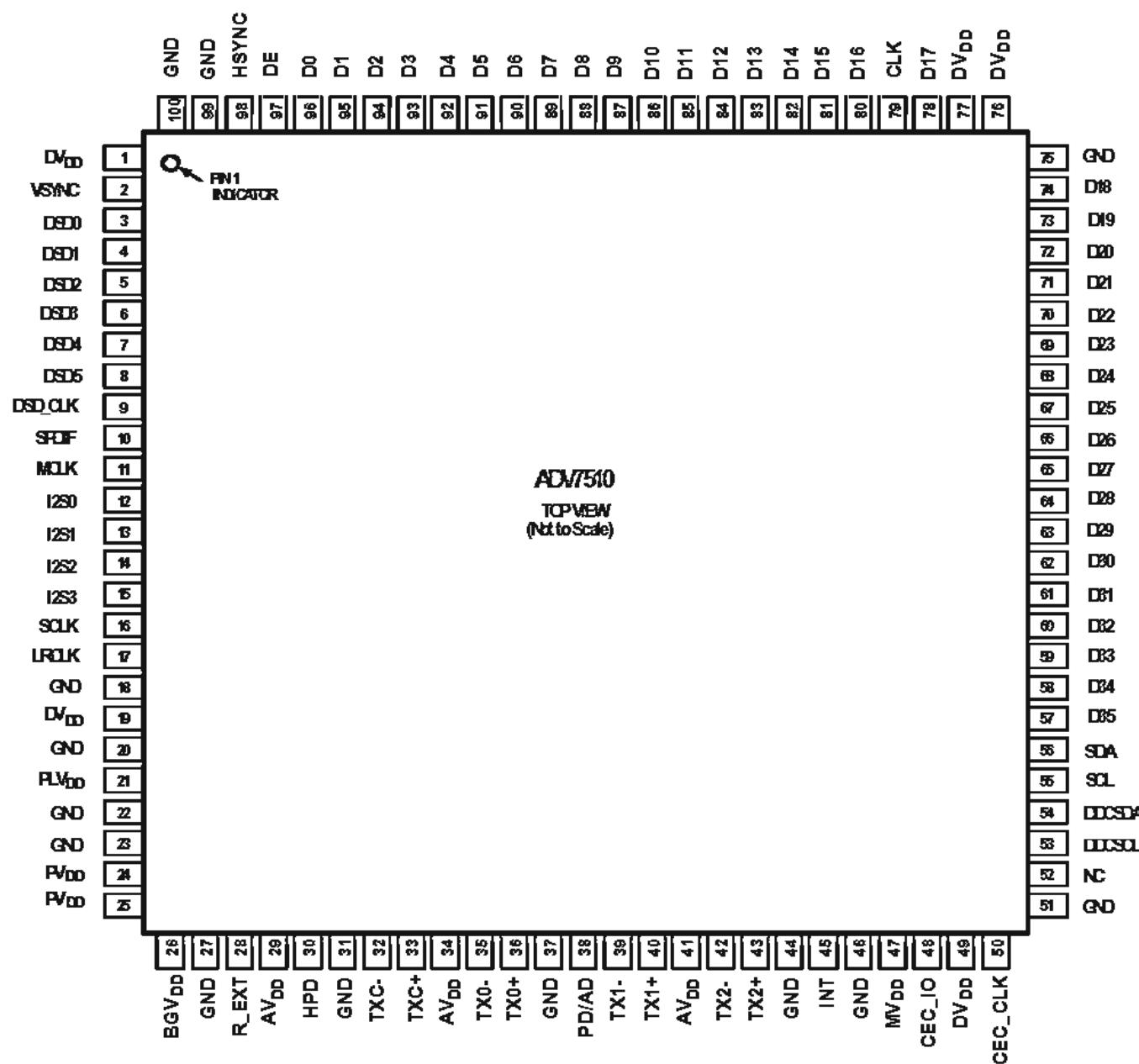
ADV3002BSTZ (DI : IC401)



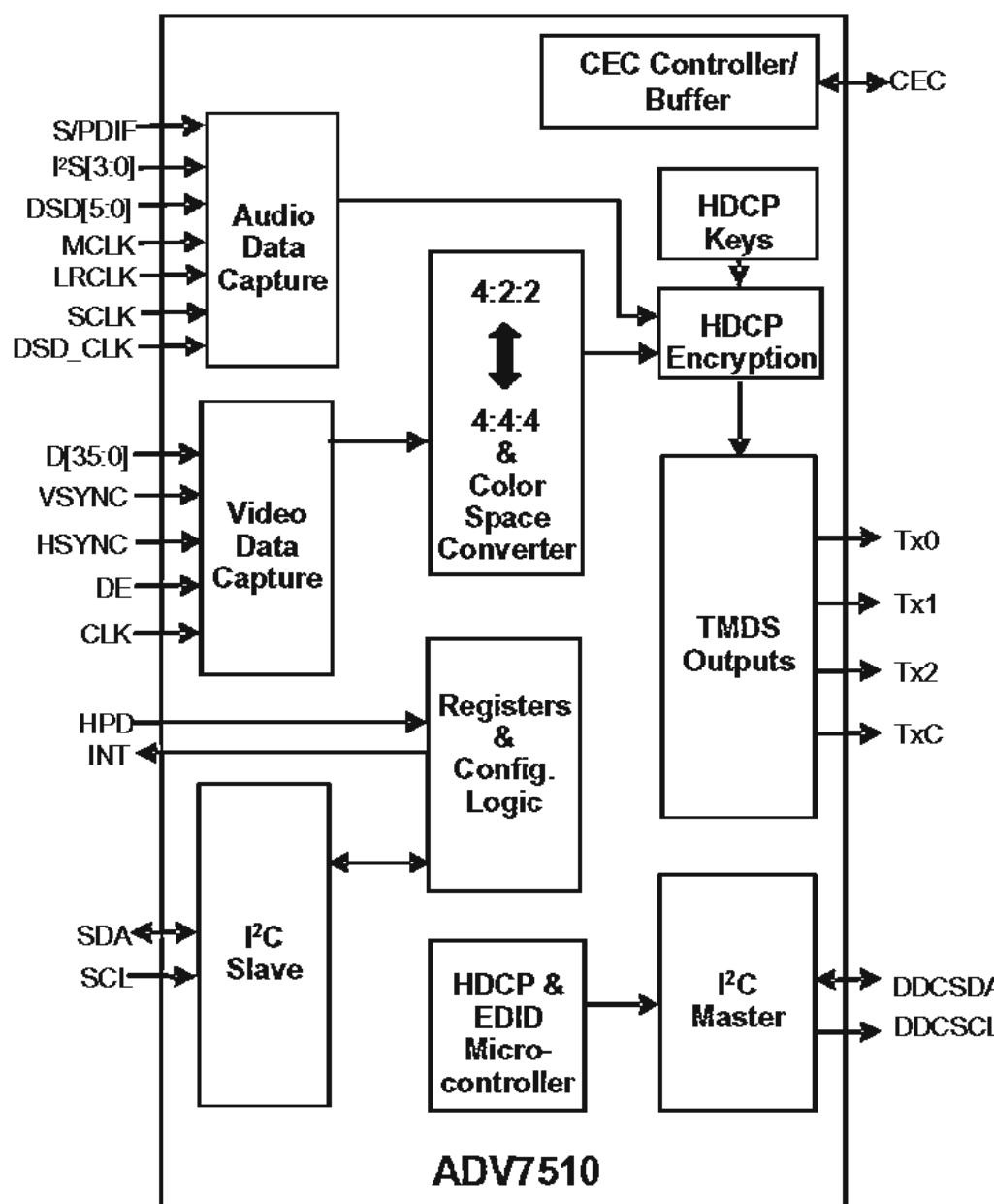
Functional Block Diagram



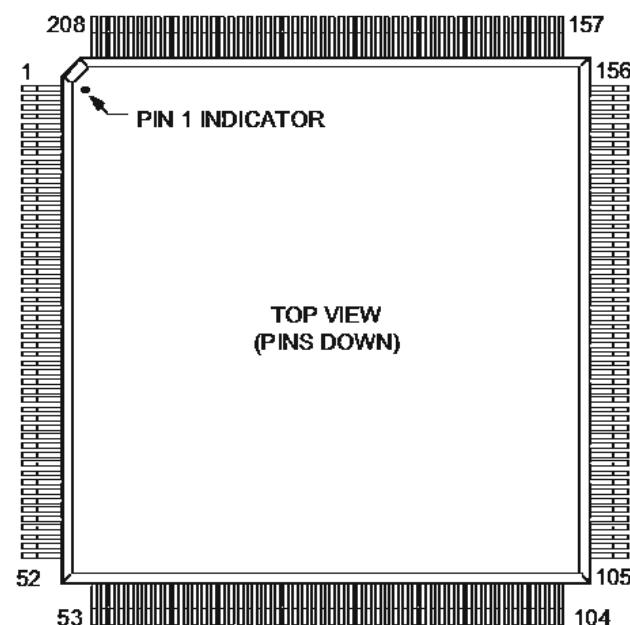
ADV7340BSTZ-3 (DI : IC952)



Functional Block Diagram



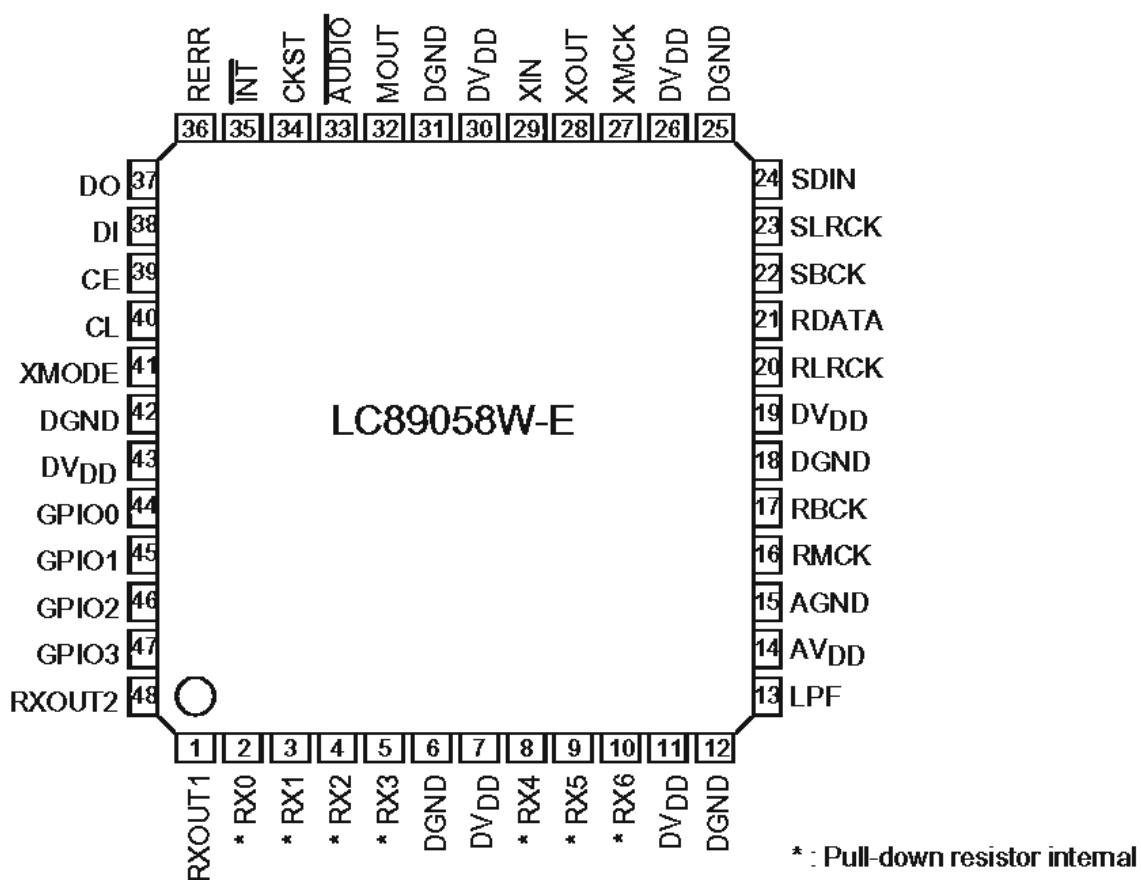
ADSP21367KSWZ2A1165 (DI : IC204)



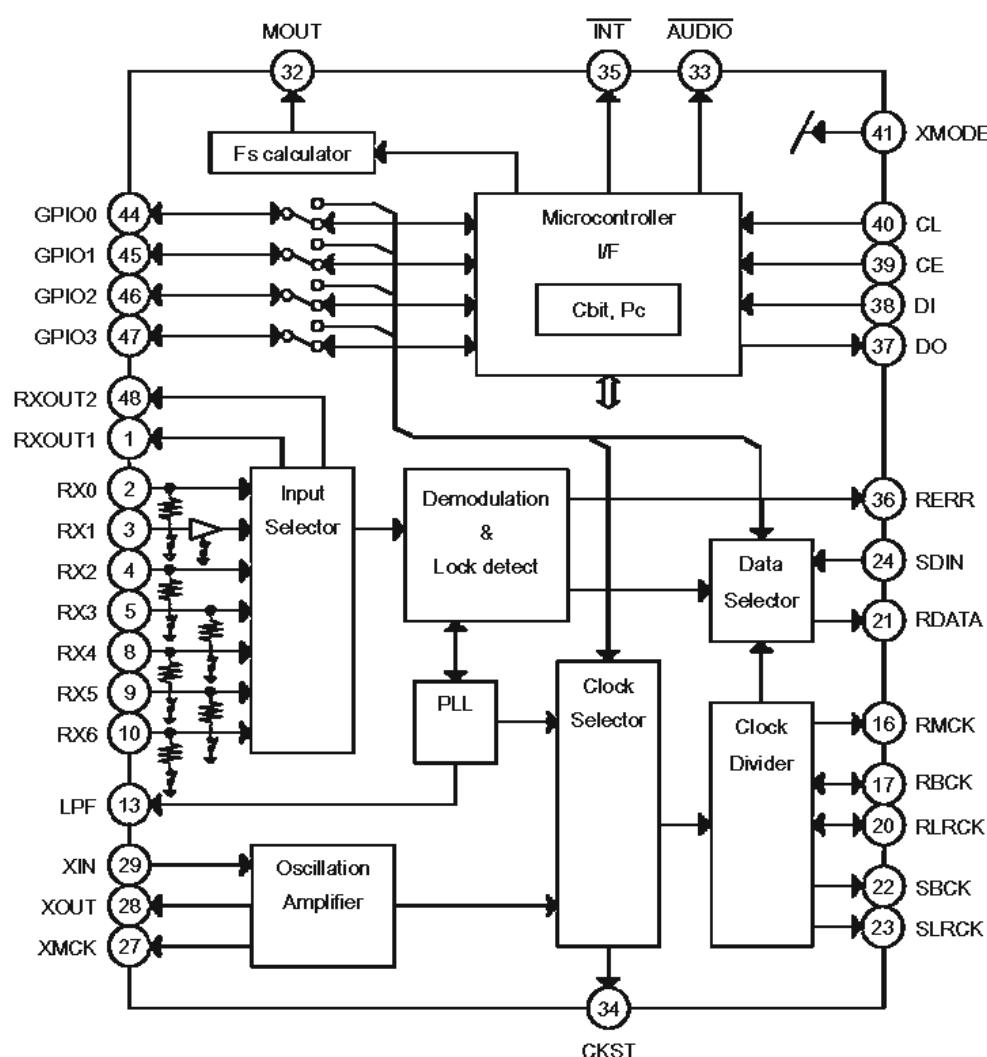
ADSP21367KSWZ2A1164 Terminal Function

Pin No.	Signal						
1	VDD	53	VDD	105	VDD	157	VDD
2	DATA28	54	GND	106	GND	158	VDD
3	DATA27	55	IOVDD	107	IOVDD	159	GND
4	GND	56	ADDR0	108	SDCAS	160	VDD
5	IOVDD	57	ADDR2	109	SDRAS	161	VDD
6	DATA26	58	ADDR1	110	SDCKE	162	VDD
7	DATA25	59	ADDR4	111	SDWE	163	TDI
8	DATA24	60	ADDR3	112	WR	164	TRST
9	DATA23	61	ADDR5	113	SDA10	165	TCK
10	GND	62	GND	114	GND	166	GND
11	VDD	63	VDD	115	IOVDD	167	VDD
12	DATA22	64	GND	116	SDCLK0	168	TMS
13	DATA21	65	IOVDD	117	GND	169	CLK_CFG0
14	DATA20	66	ADDR6	118	VDD	170	BOOTCFG0
15	IOVDD	67	ADDR7	119	RD	171	CLK_CFG1
16	GND	68	ADDR8	120	ACK	172	EMU
17	DATA19	69	ADDR9	121	FLAG3	173	BOOTCFG1
18	DATA18	70	ADDR10	122	FLAG2	174	TDO
19	VDD	71	GND	123	FLAG1	175	DAI4
20	GND	72	VDD	124	FLAG0	176	DAI2
21	DATA17	73	GND	125	DAI20	177	DAI3
22	VDD	74	IOVDD	126	GND	178	DAI1
23	GND	75	ADDR11	127	VDD	179	IOVDD
24	VDD	76	ADDR12	128	GND	180	GND
25	GND	77	ADDR13	129	IOVDD	181	VDD
26	DATA16	78	GND	130	DAI19	182	GND
27	DATA15	79	VDD	131	DAI18	183	DPI14
28	DATA14	80	AVSS	132	DAI17	184	DPI13
29	DATA13	81	AVDD	133	DAI16	185	DPI12
30	DATA12	82	GND	134	DAI15	186	DPI11
31	IOVDD	83	CLKIN	135	DAI14	187	DPI10
32	GND	84	XTAL2	136	DAI13	188	DPI9
33	VDD	85	IOVDD	137	DAI12	189	DPI8
34	GND	86	GND	138	VDD	190	DPI7
35	DATA11	87	VDD	139	IOVDD	191	IOVDD
36	DATA10	88	ADDR14	140	GND	192	GND
37	DATA9	89	GND	141	VDD	193	VDD
38	DATA8	90	IOVDD	142	GND	194	GND
39	DATA7	91	ADDR15	143	DAI11	195	DPI6
40	DATA6	92	ADDR16	144	DAI10	196	DPI5
41	IOVDD	93	ADDR17	145	DAI8	197	DPI4
42	GND	94	ADDR18	146	DAI9	198	DPI3
43	VDD	95	GND	147	DAI6	199	DPI1
44	DATA4	96	IOVDD	148	DAI7	200	DPI2
45	DATA5	97	ADDR19	149	DAI5	201	CLKOUT
46	DATA2	98	ADDR20	150	IOVDD	202	RESET
47	DATA3	99	ADDR21	151	GND	203	IOVDD
48	DATA0	100	ADDR23	152	VDD	204	GND
49	DATA1	101	ADDR22	153	GND	205	DATA30
50	IOVDD	102	MST	154	VDD	206	DATA31
51	GND	103	MS0	155	GND	207	DATA29
52	VDD	104	VDD	156	VDD	208	VDD

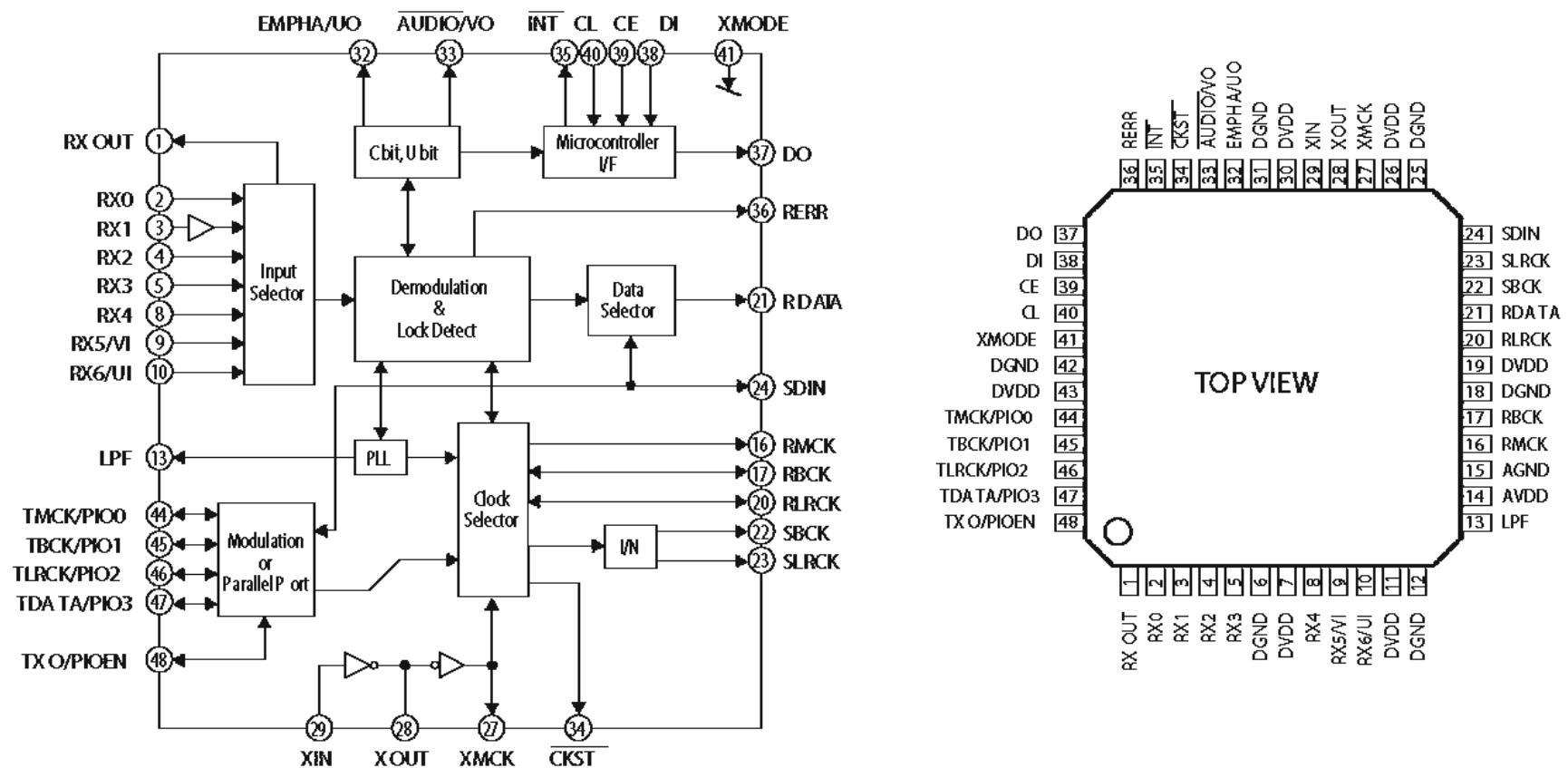
LC89058W-E (DI : IC101, IC104, IC105)



Functional Block Diagram



LC89057W-VF4A (DI : IC102, IC103)



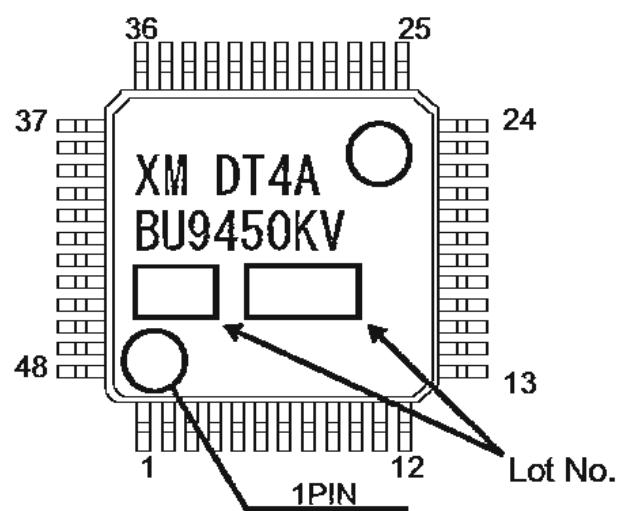
LC89057W-VF4A Terminal Function

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

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

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

BU9450KV-E2 (DI : IC106)



BU9450KV-E2 Terminal Function

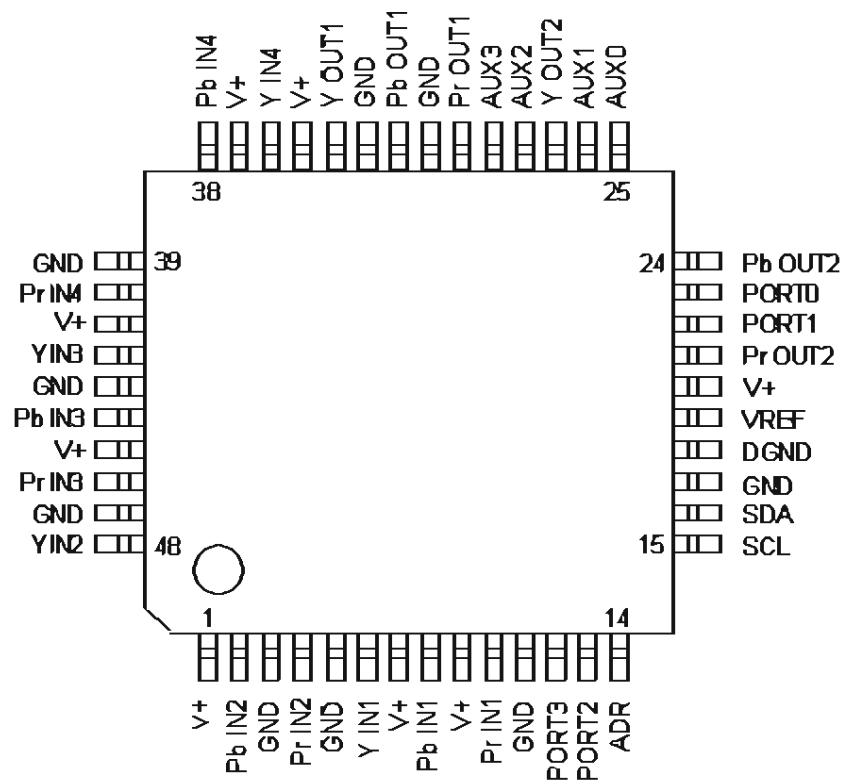
No.	Name	Diagram	I/O		Note
			Slave Mode	Master Mode	
1	LSDP	G	I	O	
3	SC_TX_OUT	B	O	O	
5	SC_RX_IN	A	I	I	
6	RFU(I2C-SCL)	G	I	I	
7	RFU(I2C-SDA)	G	I	I	
9	ANT_REV	H	n/u	O	
11	RESET#	A	I	I	
12	SLAVE_SEL	A	I	I	
13	I2S_RATE	H	O	O	
14	LINKACTIVE	H	O	O	
15	COMM_TX_EN	G	O	O	
18	COMM_TXRX_P	D	I/O	I/O	This pin is shorted on the die with pin23.
19	COMM_TXRX_M	C	I/O	I/O	This pin is shorted on the die with pin22.
22	COMM_TXRX_M	C	I/O	I/O	This pin is shorted on the die with pin19.
23	COMM_TXRX_P	D	I/O	I/O	This pin is shorted on the die with pin18.
26	OSC_OUT	F	O	O	
27	N.C.	-	-	-	Not connected
28	OSC_IN	E	I	I	
29	SC_RATE	G	O	I	
30	TEST	A	I	I	Must be connected to ground.
31	TEST2	A	I	I	Must be connected to ground.
32	HSDP_DATA	G	I	O	
34	HSDP_CLK	G	I	O	
35	DT4_MODE	A	I	I	
36	HSDP_EN#	G	I	O	
37	I2S_DATA	G	I	O	
39	I2S_SCLK	G	I	O	
41	I2S_LRCLK	G	I	O	
43	I2S_OCLK	H	O	O	
44	MUTE	G	n/u	O	
45	SAII_CLK	G	O	I	
47	SAII_DATA	G	O	I	
48	SAII_REQ	G	I	O	

I: input, O: output

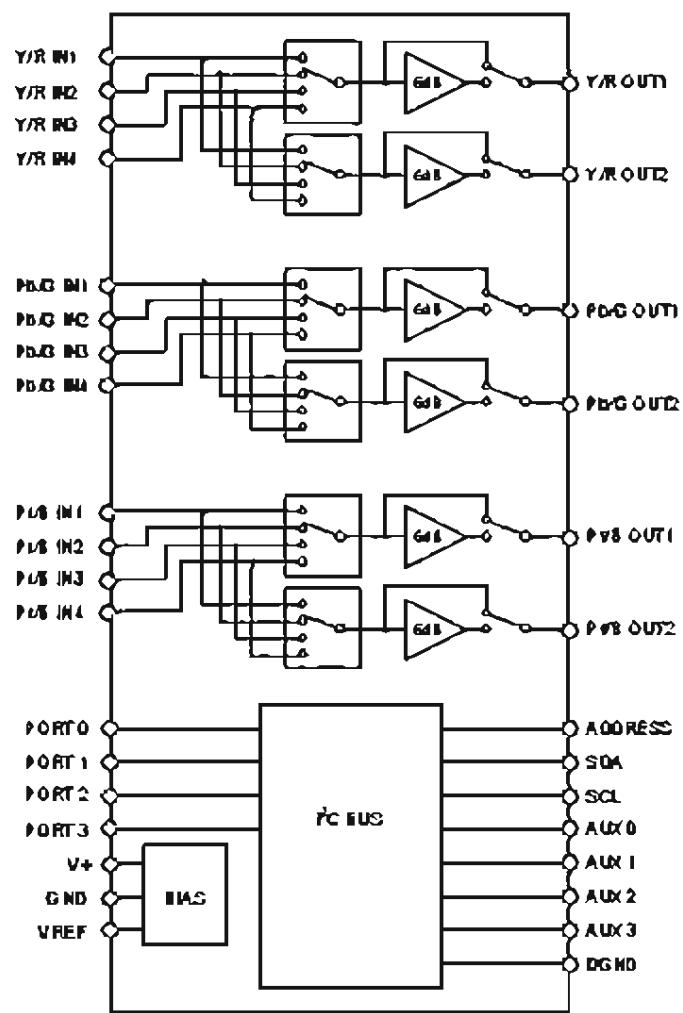
n/u: not used

Pin No.	Pin name	Function
4, 8, 17, 20, 33, 40, 46	VDD	3.3V Supply Voltage
2, 10, 16, 21, 24, 25, 38, 42	VSS	Ground

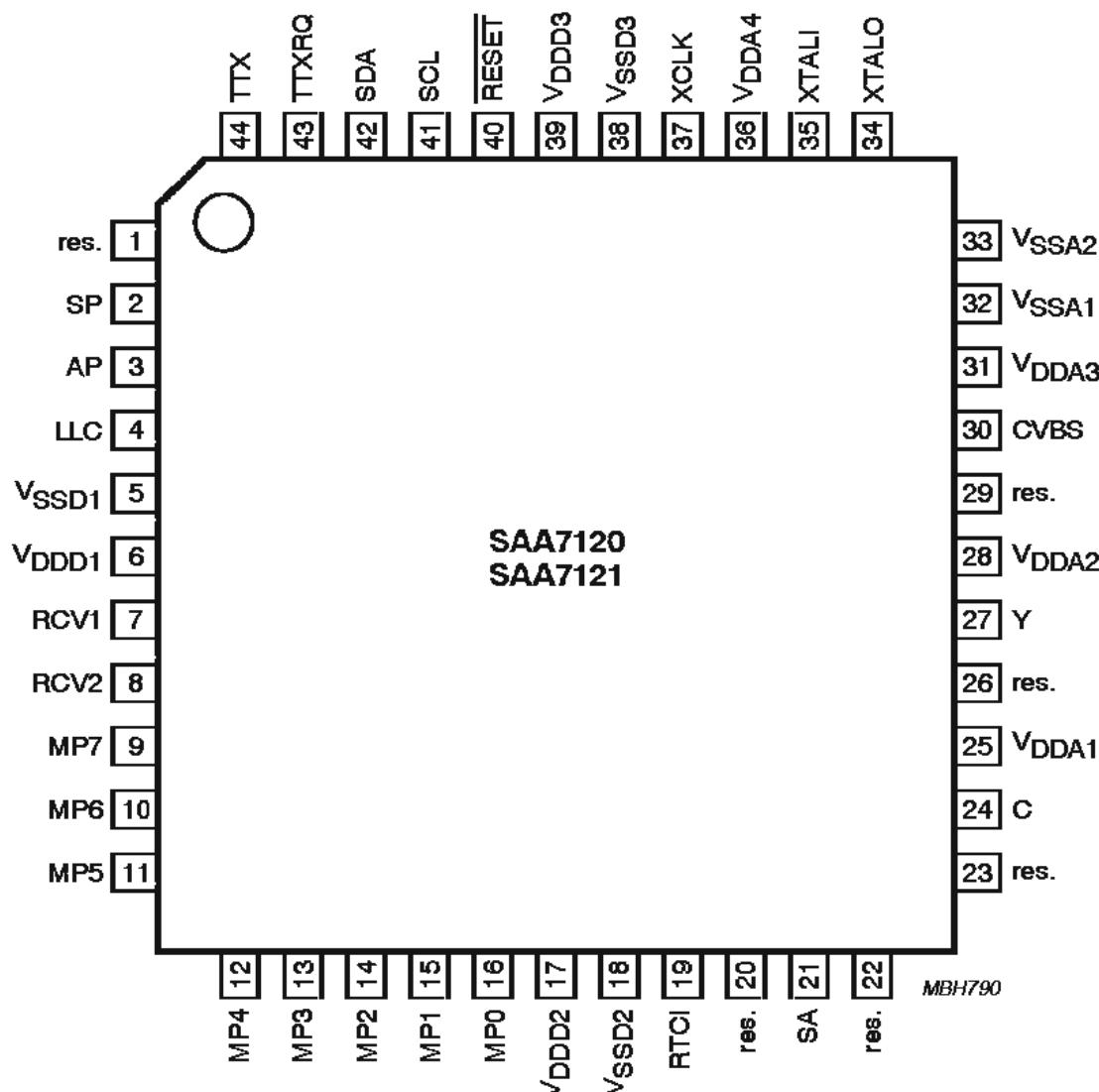
NJW1321FP1 (AV : IC501)



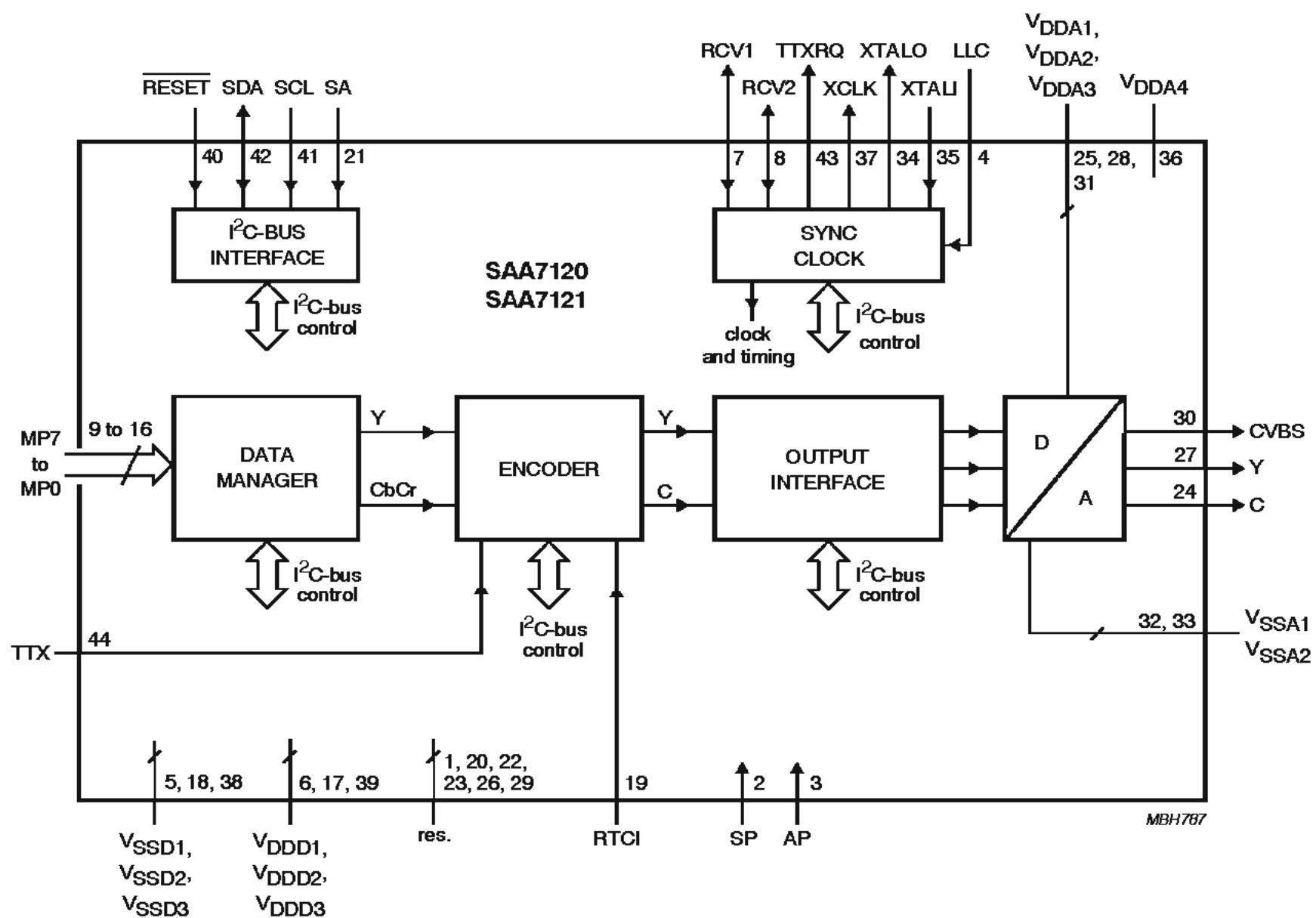
Functional Block Diagram



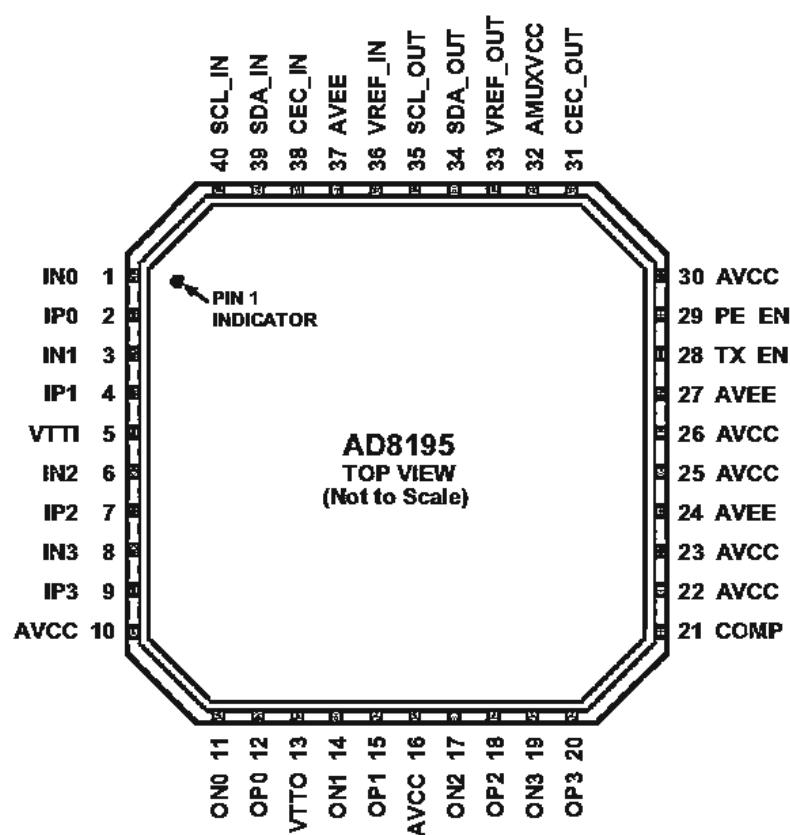
SAA7121H (DI : IC457)



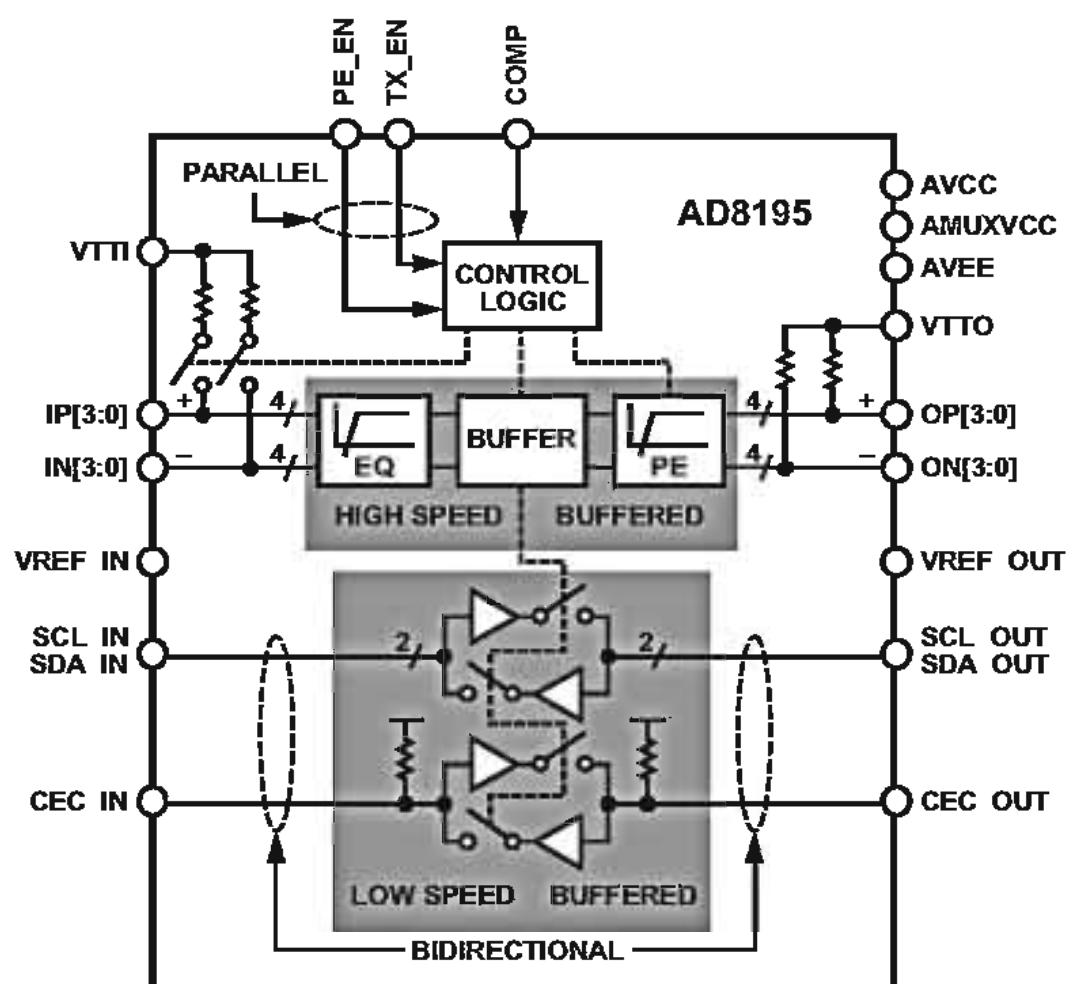
Functional Block Diagram



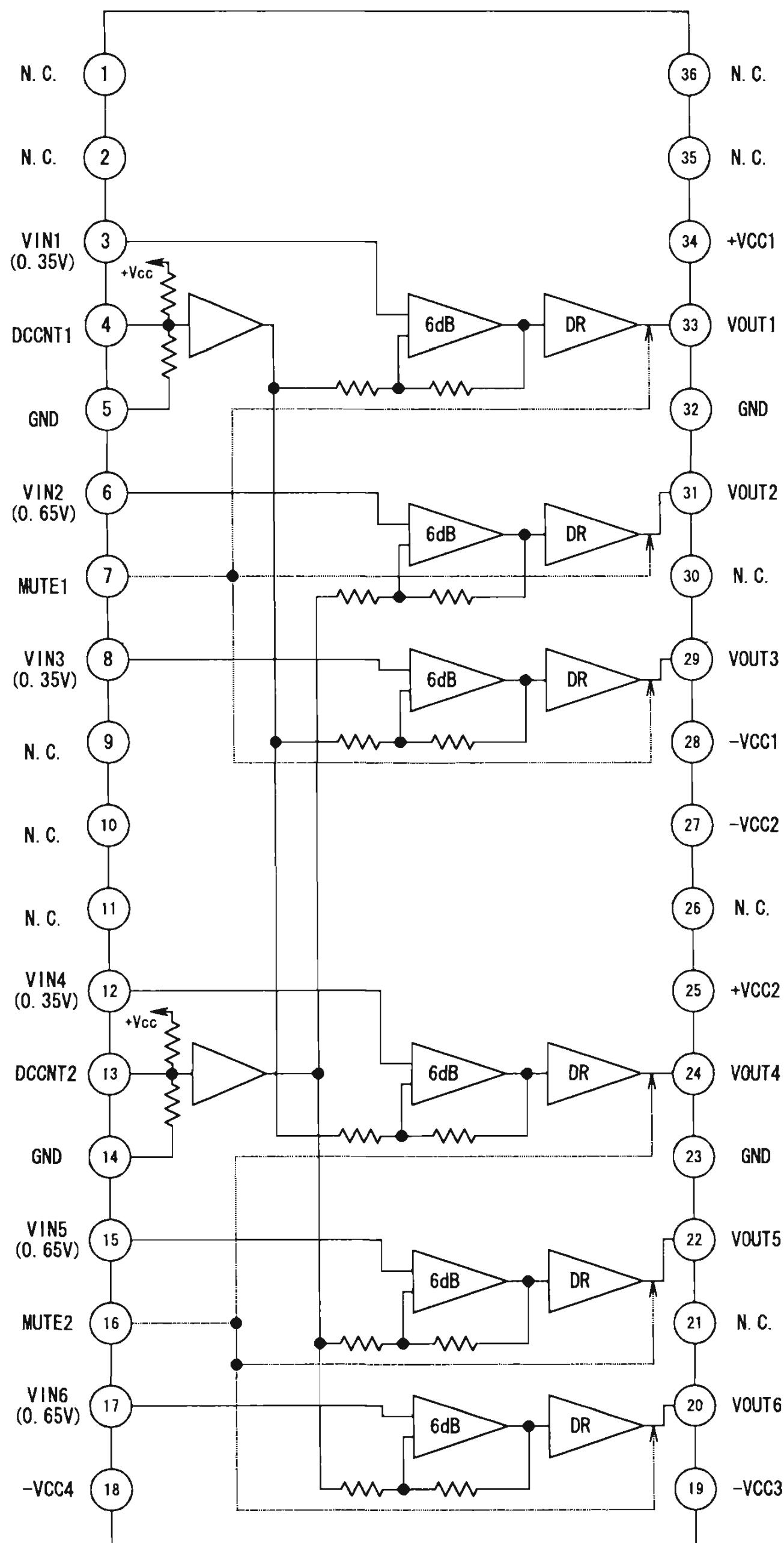
AD8195ACPZ (AV : IC451)



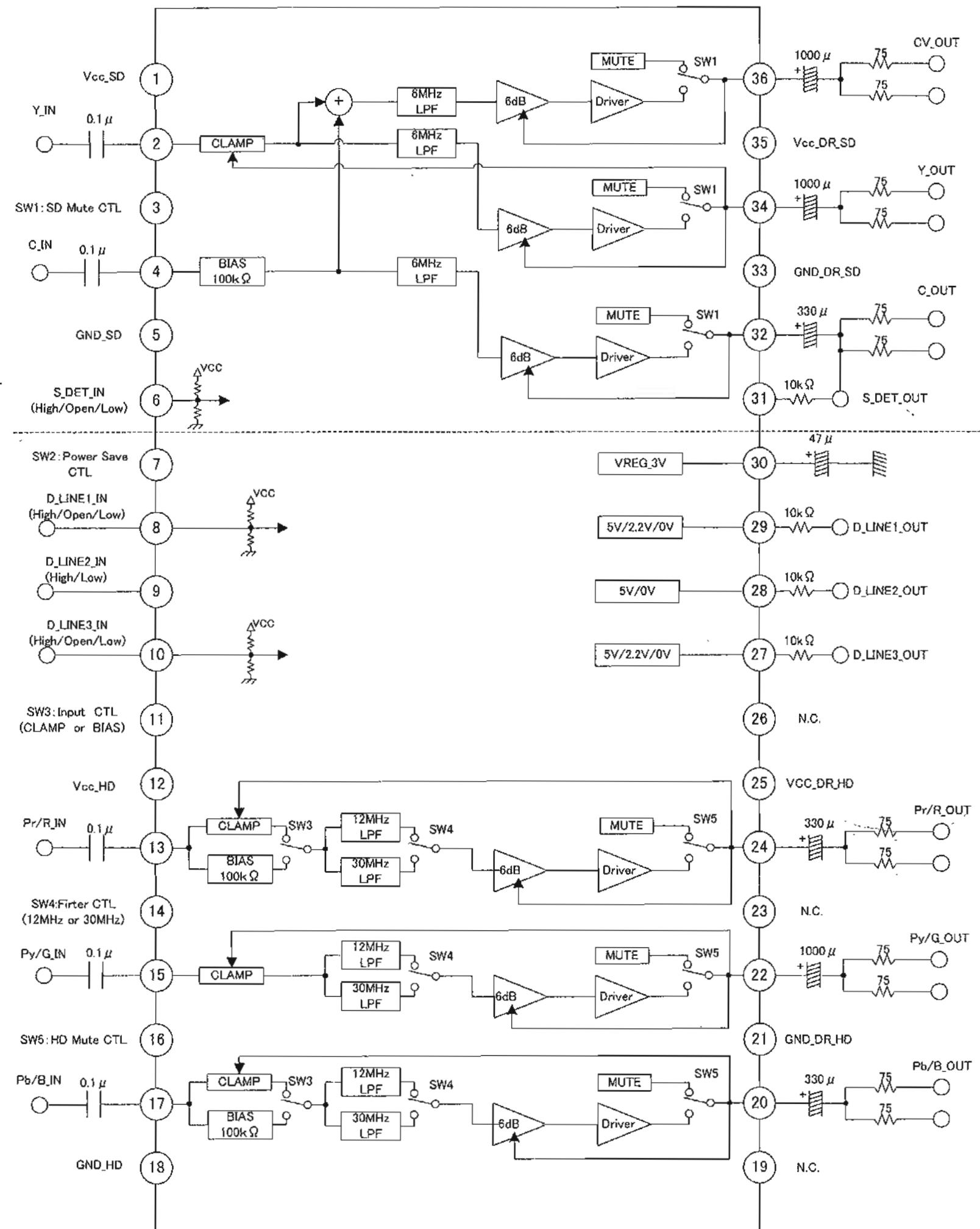
Functional Block Diagram



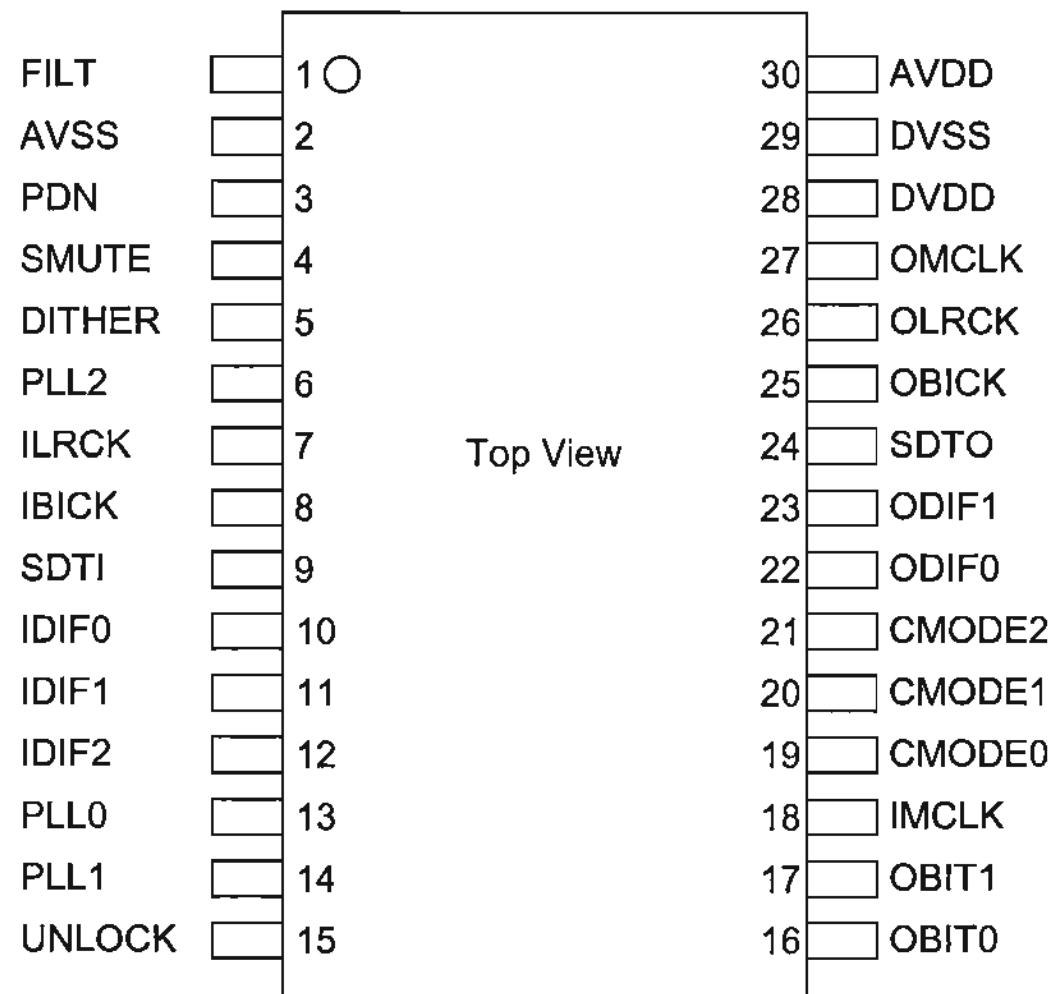
LA73053-TLM-E (AV : IC101)



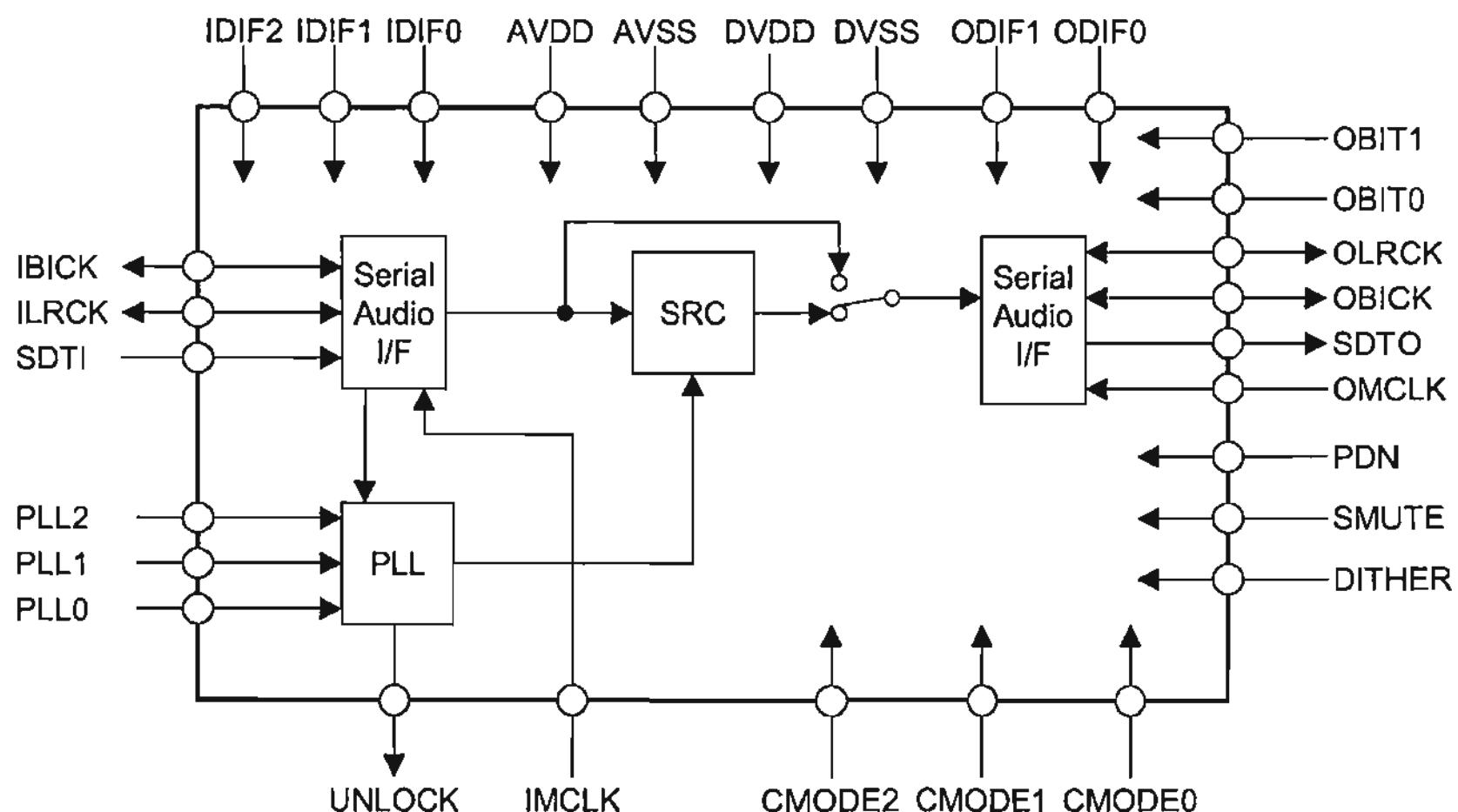
LA73062V-TLM-E (AV : IC305)



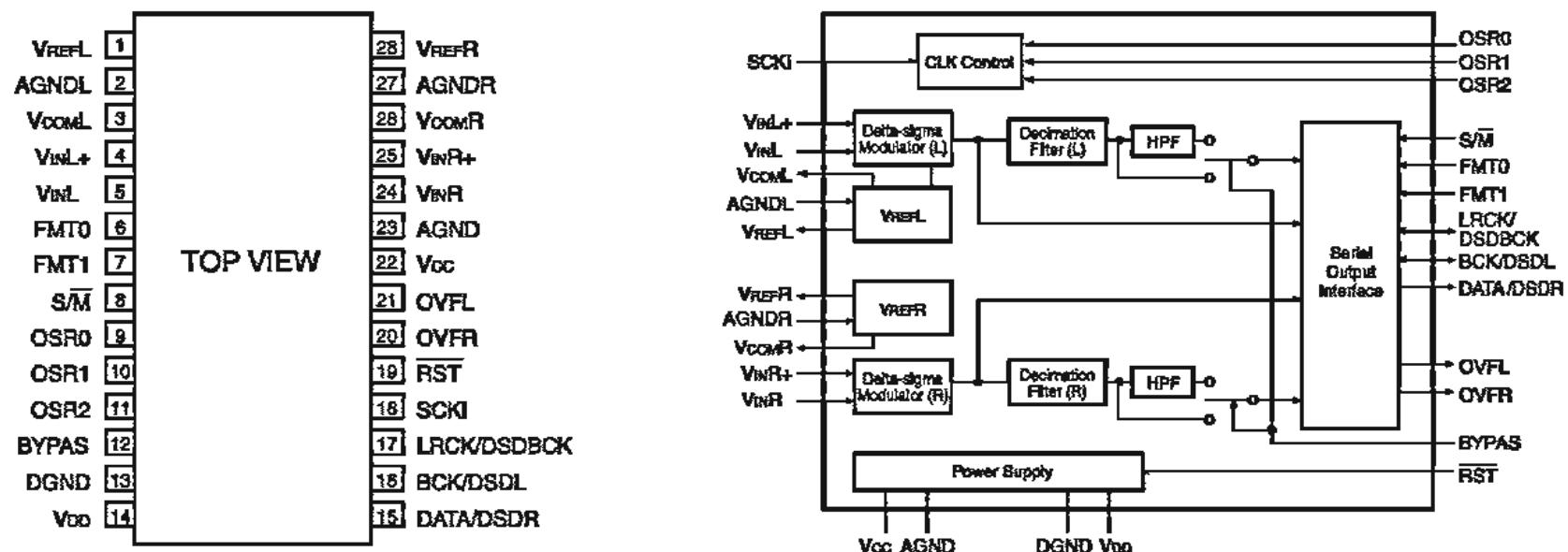
AK4125VF (DI : IC466)



Functional Block Diagram



PCM1804 (DI : IC302)



PCM1804 Terminal Function

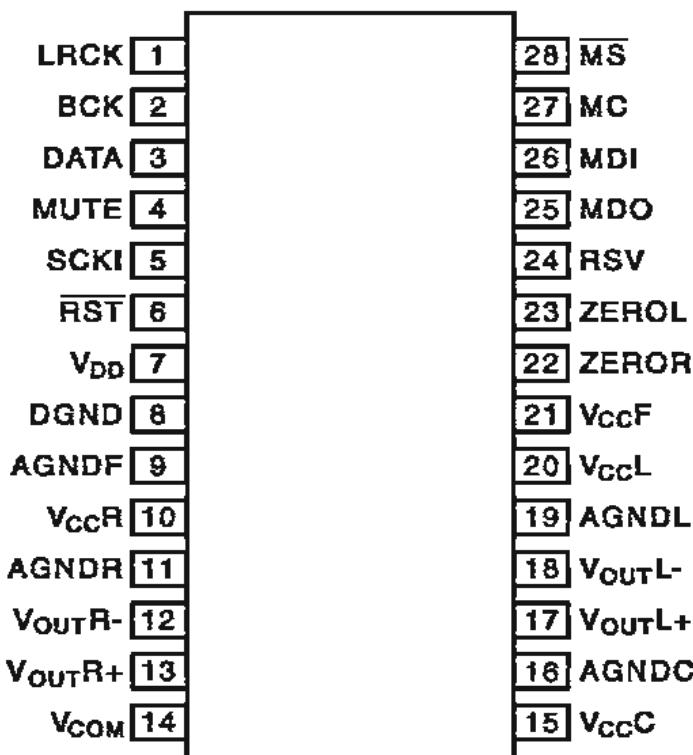
Pin No.	Pin Name	I/O	Function
1	VREFL		L-channel voltage reference output, requires capacitors for decoupling to AGND.
2	AGNDL		Analog ground for VREFL
3	VCOML		L-channel analog common mode output.
4	VINL+	I	L-channel analog input, positive pin.
5	VINL	I	L-channel analog input, negative pin.
6	FMT0	I	Audio data format 0. See TABLE V. *
7	FMT1	I	Audio data format 1. See TABLE V. *
8	S/M	I	Master/slave mode selection. See TABLE IV. *
9	OSR0	I	Oversampling ratio 0. See TABLE I, TABLE II. *
10	OSR1	I	Oversampling ratio 1. See TABLE I, TABLE II. *
11	OSR2	I	Oversampling ratio 2. See TABLE I, TABLE II. *
12	BYPAS	I	HPF bypass control. HIGH: HPF disable, LOW: HPF enable. ***
13	DGND		Digital ground.
14	VDD		Digital power supply.
15	DATA/DSDR	O	L-channel and R-channel audio data output in PCM mode. R-channel Audio data output in DSD mode.(DSD output, when DSD mode)
16	BCK/DSDL	I/O	Bit clock Input/output in PCM mode. L-channel audio data output in DSD mode. ***
17	LRCK/DSDBCK	I/O	Sampling clock input/output in PCM and DSD mode. ***
18	SCKI	I	System clock input; 128fs, 256fs, 384fs, 512fs or 768fs. **
19	RST	I	Reset, power down input, active LOW. *
20	OVFR	O	Overflow signal of R-channel in PCM mode. This is available in PCM mode only.
21	OVFL	O	Overflow signal of L-channel in PCM mode. This is available in PCM mode only.
22	VCC		Analog power supply.
23	AGND		Analog ground.
24	VINR	I	R-channel analog input, negative pin.
25	VINR+	I	R-channel analog input, positive pin.
26	VCOMR		R-channel analog common mode output.
27	AGNDR		Analog ground for VREFR.
28	VREFR		R-channel voltage reference output, requires capacitors for decoupling to AGND.

* Schmitt trigger input with internal pull-down (51kohm typically), 5V tolerant.

** Schmitt trigger input, 5V tolerant.

*** Schmitt trigger input.

PCM1791ADBR (DI : IC301, IC304, IC305, IC306)



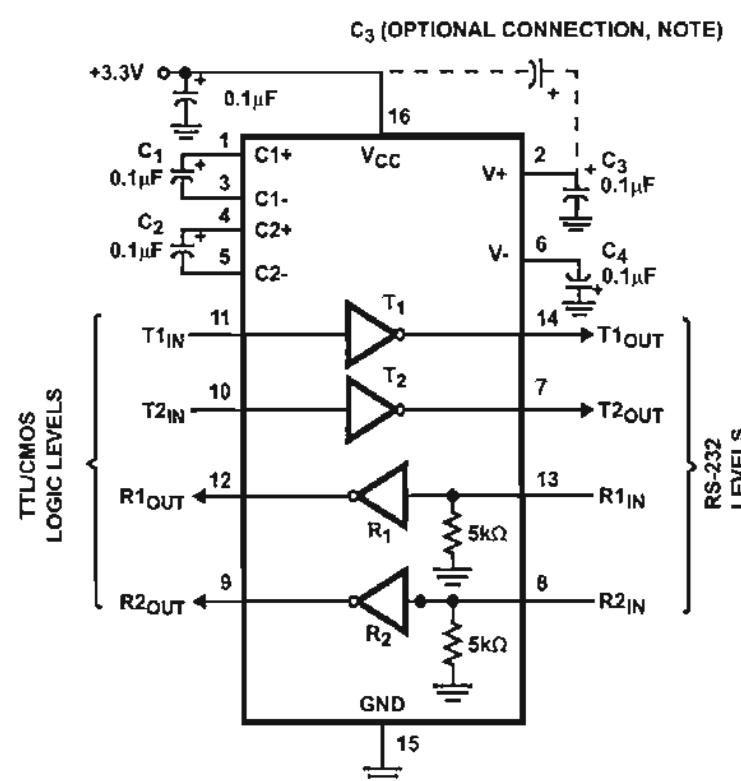
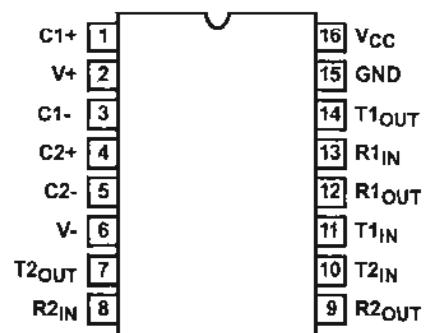
PCM1791ADBR Terminal Function

Pin No.	Pin Name	I/O	DESCRIPTIONS
1	LRCK	I	Left and right clock (f_s) input for normal operation. WDCK clock input in external DF mode. Connected to GND in DSD mode*
2	BCK	I	Bit clock input. Connected GND for DSD mode*
3	DATA	I	Serial audio data input for normal operation. L-channel audio data input for external DF and DSD modes*
4	MUTE	I	Analog output mute control for normal operation. R-channel audio data input for external DF and DSD modes*
5	SCKI	I	System Clock Input. BCK (64 f_s) clock input for DSD mode*
6	RST	I	Reset*
7	V _{DD}	-	Digital power supply, +3.3 V
8	DGND	-	Digital ground
9	AGNDF	-	Analog ground (DACFF)
10	V _{ccR}	-	Analog power supply (R-channel DAC), +5.0 V
11	AGNDR	-	Analog ground (R-channel DAC)
12	V _{OUTR-}	O	R-channel analog voltage output-
13	V _{OUTR+}	O	R-channel analog voltage output+
14	V _{COM}	-	Internal bias de-coupling pin
15	V _{ccC}	-	Analog power supply (internal bias), +5.0 V
16	AGNDC	-	Analog ground (internal bias)
17	V _{OUTL+}	O	L-channel analog voltage output+
18	V _{OUTL-}	O	L-channel analog voltage output-
19	AGNDL	-	Analog ground (L-channel DAC)
20	V _{ccL}	-	Analog power supply (L-channel DAC), +5.0 V
21	V _{ccF}	-	Analog power supply (DACFF), +5.0 V
22	ZEROR	O	Zero flag for R-channel
23	ZEROL	O	Zero flag for L-channel
24	RSV	-	Reserved pin. It must be open.
25	MDO	O	Serial data output for function control register**
26	MDI	I	Serial data input for function control register*
27	MC	I	Shift clock for function control register*
28	MS	I	Mode control chip select and latch signal*

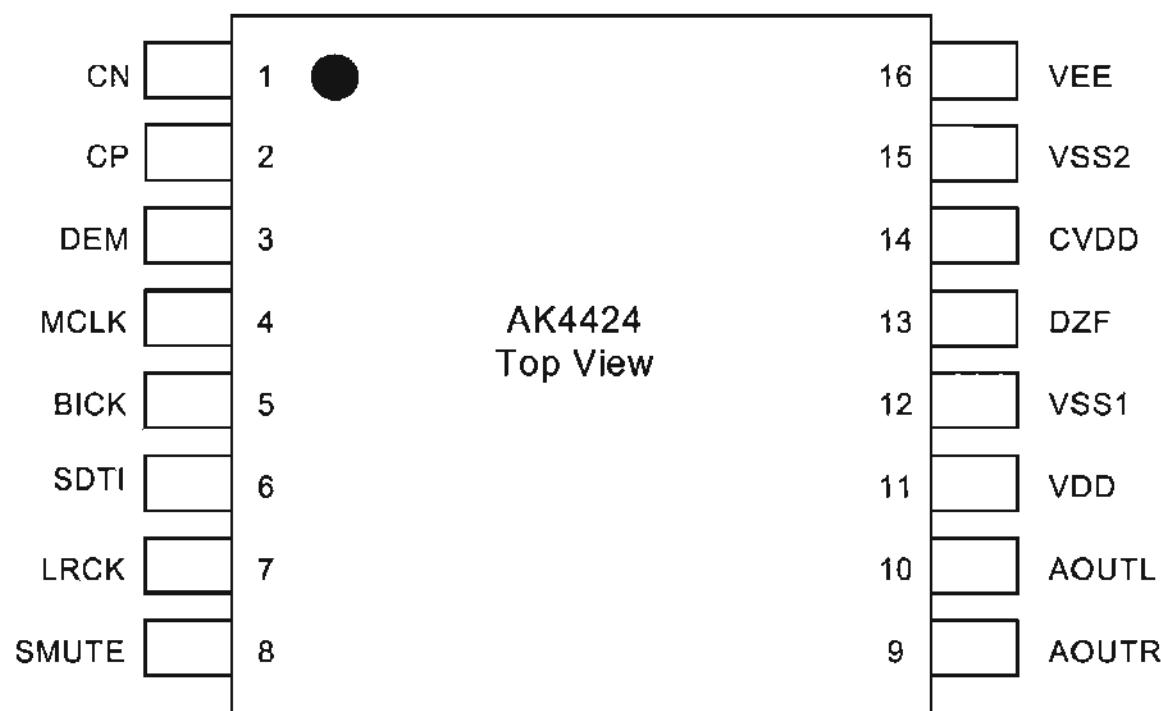
* Schmitt trigger input, 5V tolerant.

** Tristate output.

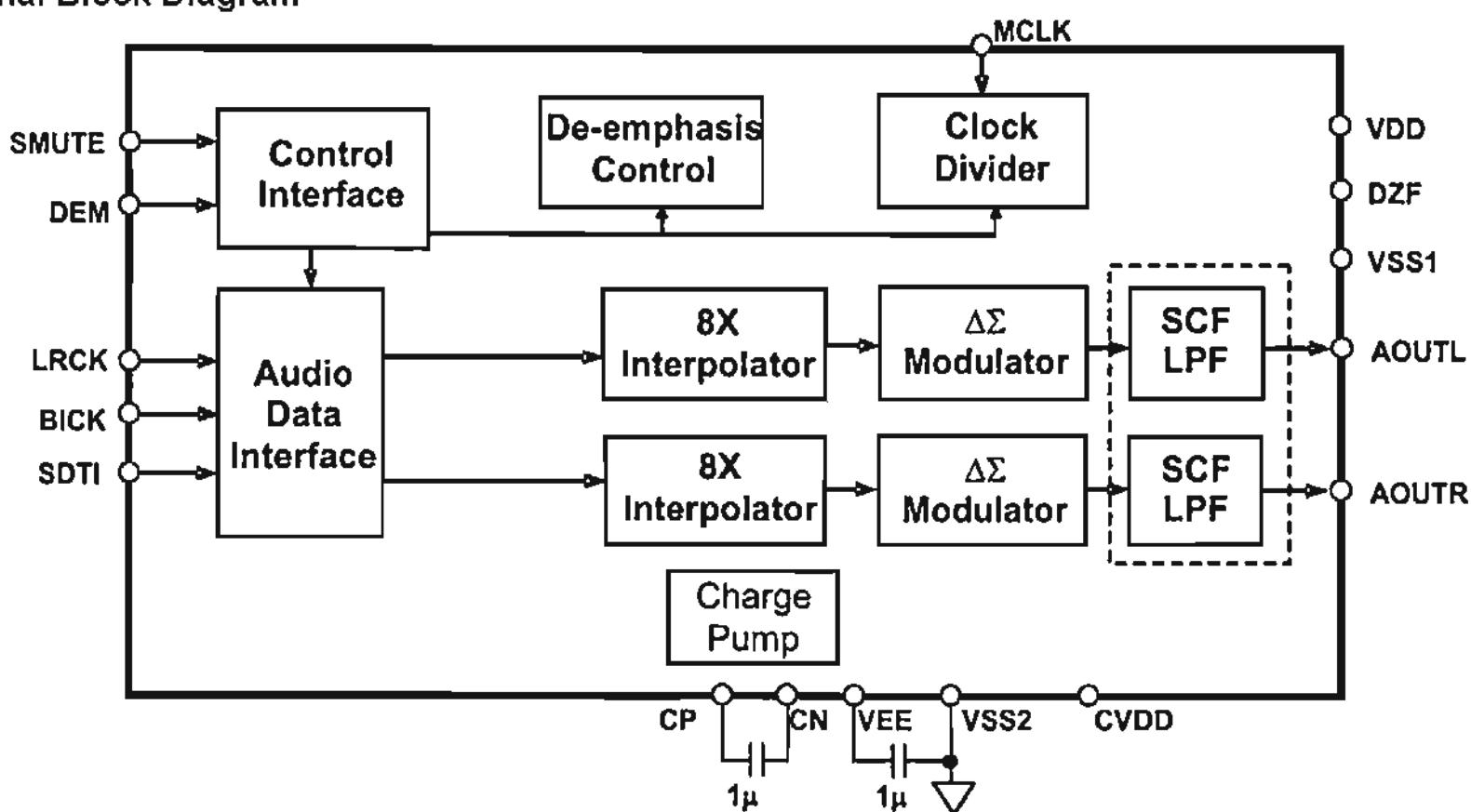
ICL3232CVZ-T (MA : IC101)

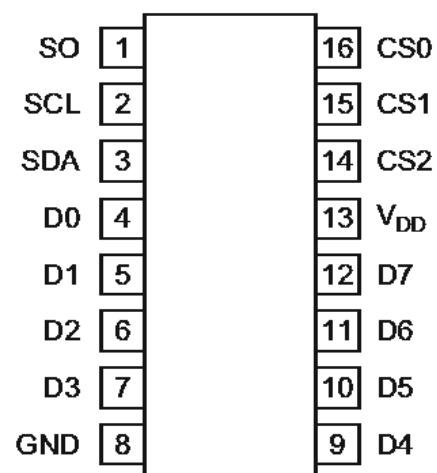


AK4424ET (DI : IC351, IC352)



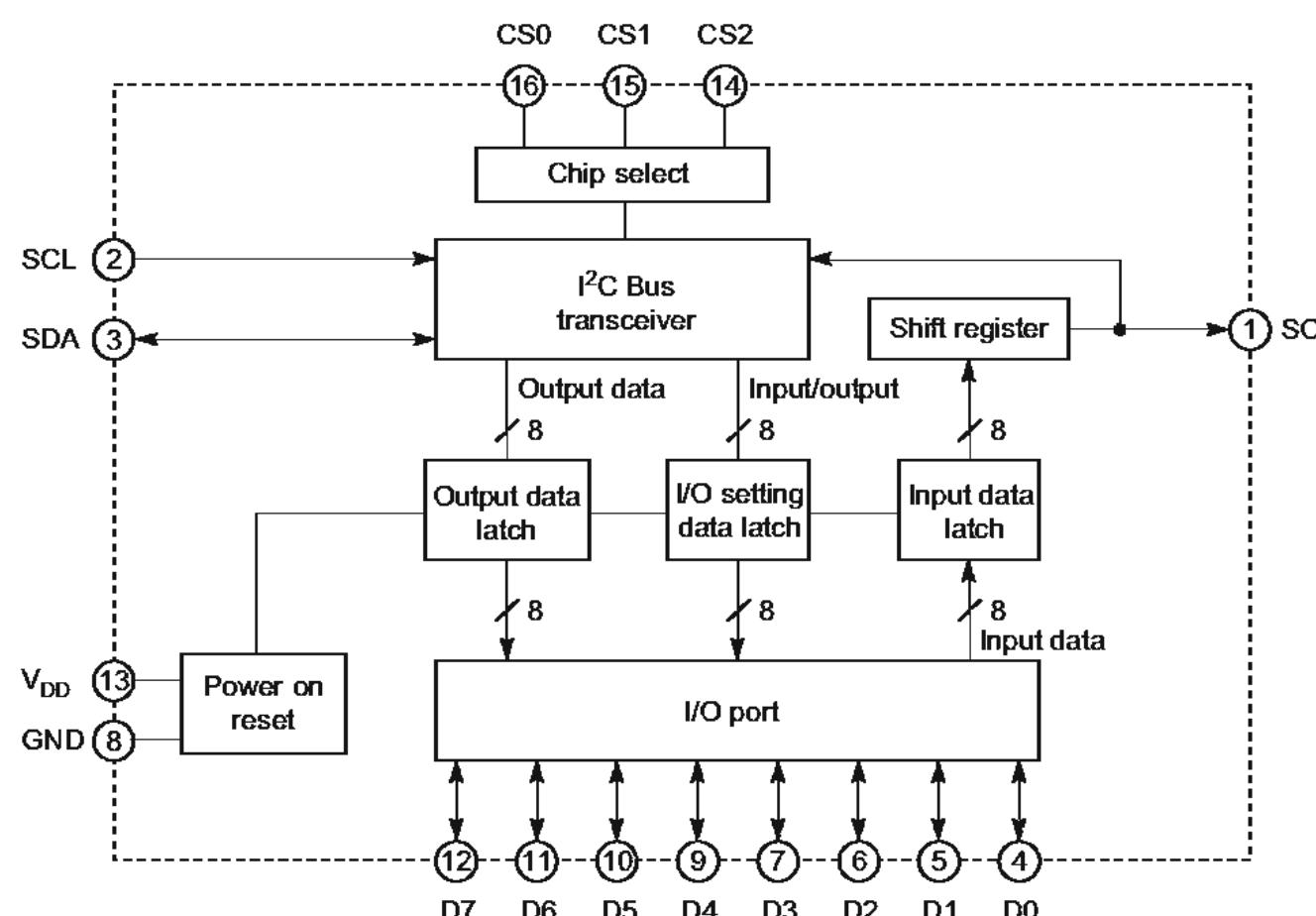
Functional Block Diagram

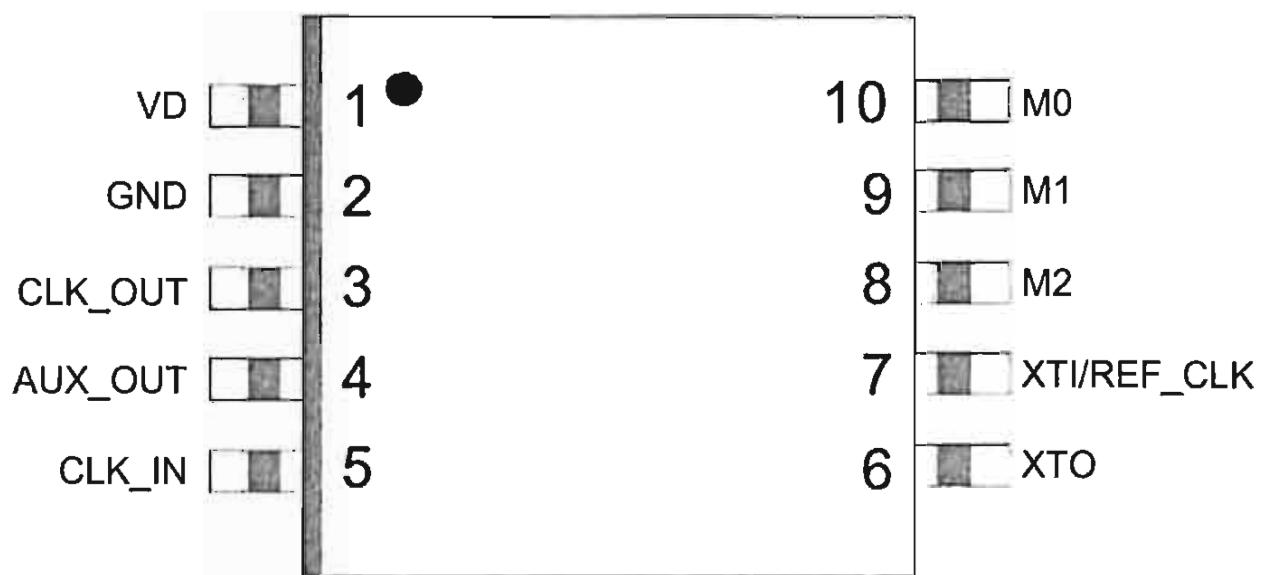




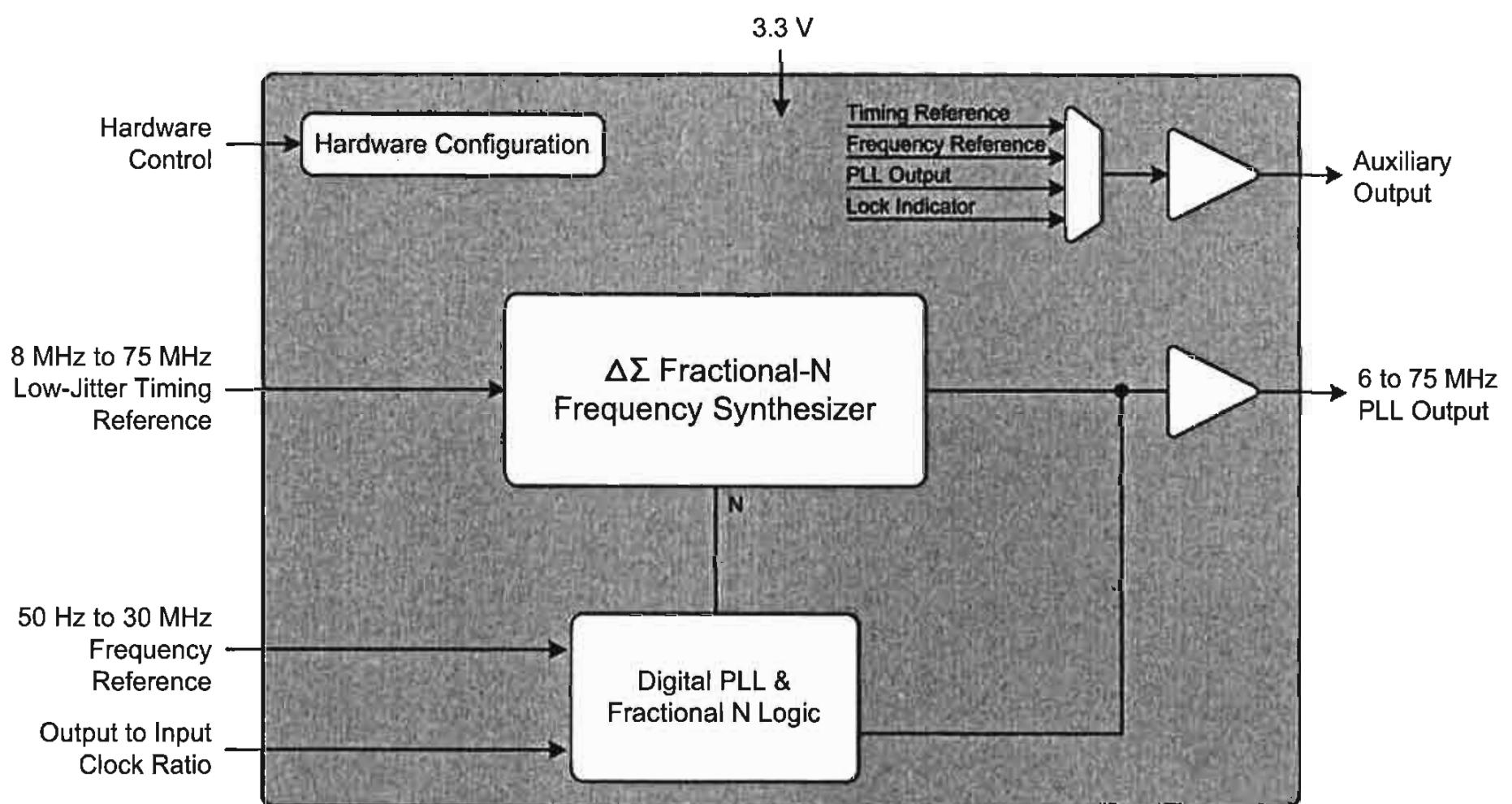
Pin No.	Pin Name	I/O	Function
2	SCL	Input	Serial clock input
3	SDA	Input/Output	Serial data input/output
1	SO	Output	Serial data output
16	CS0	Input	Chip select data input
15	CS1		
14	CS2		
4	D0	Input/Output	Parallel data input/output
5	D1		
6	D2		
7	D3		
9	D4		
10	D5		
11	D6		
12	D7		
13	V _{DD}	—	Power supply
8	GND	—	GND

Functional Block Diagram



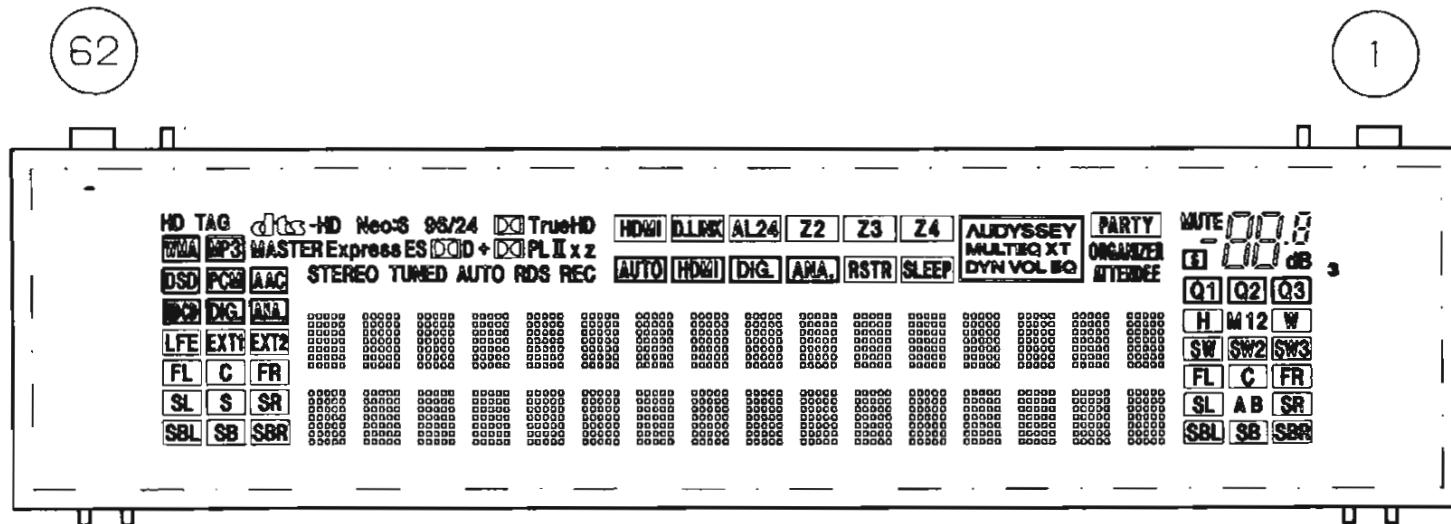


Functional Block Diagram



2. FL DISPLAY

FLD (19-ST-02GINK) (FR: FL101)

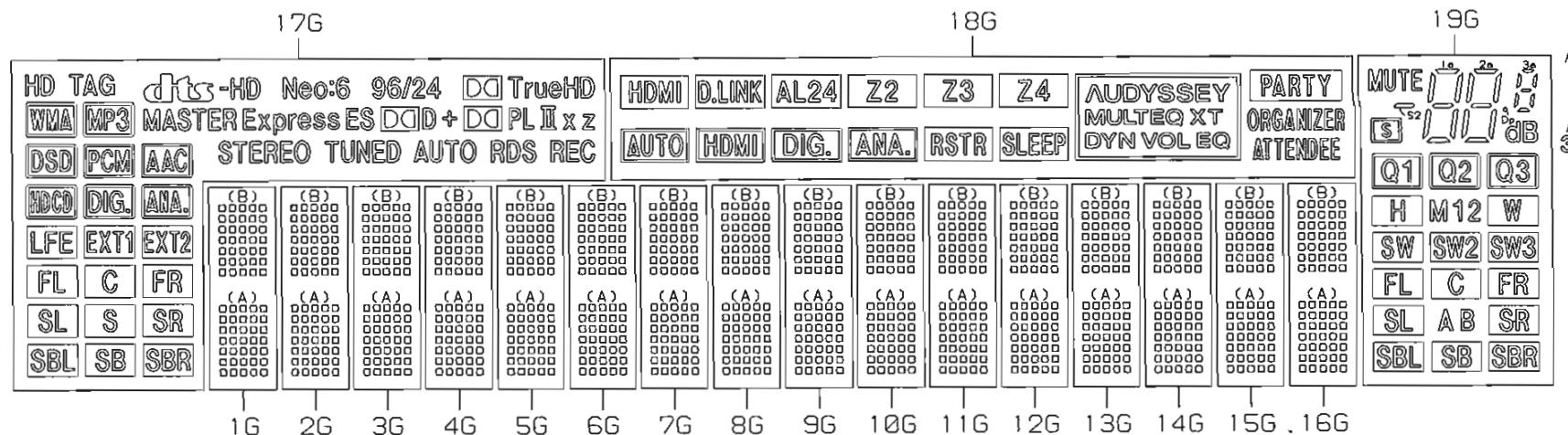


PIN CONNECTION

PIN NO.	6 2	6 1	6 0	5 9	5 8	5 7	5 6	5 5	5 4	5 3	5 2	5 1	
CONNECTION				L F	P N	G N	G N	V D	D S	V O	S E	- C	R C
				2 X	P P	D D	D H	H D	C T	T S	S P		

NOTE 1) F1,F2 --- Filament
 2) NP ----- No pin
 3) DL ----- Datum Line
 4) NX ----- No extend pin
 5) 17G~19G --- Grid
 6) Q17G~Q19G --- Driver Output Port
 7) LGND ----- Logic GND pin
 8) PGND ----- Power GND pin
 9) VH ----- High Voltage Supply pin
 10) VDD ----- Logic Voltage Supply pin
 11) OSC ----- Pin for self-oscillation
 12) RESET --- Reset Input
 13) CS ----- Chip Select Input pin
 14) CP ----- Shift Register Clock
 15) DA ----- Serial Data Input
 16) TSA,B --- Test pin
 17) Solder composition is Sn-3Ag-0.5Cu.

GRID ASSIGNMENT



NOTE) The mark "A" is used to distinguish between very similar displays. This mark is electrically isolated from the wiring pattern.



(1G~16G)

ANODE CONNECTION

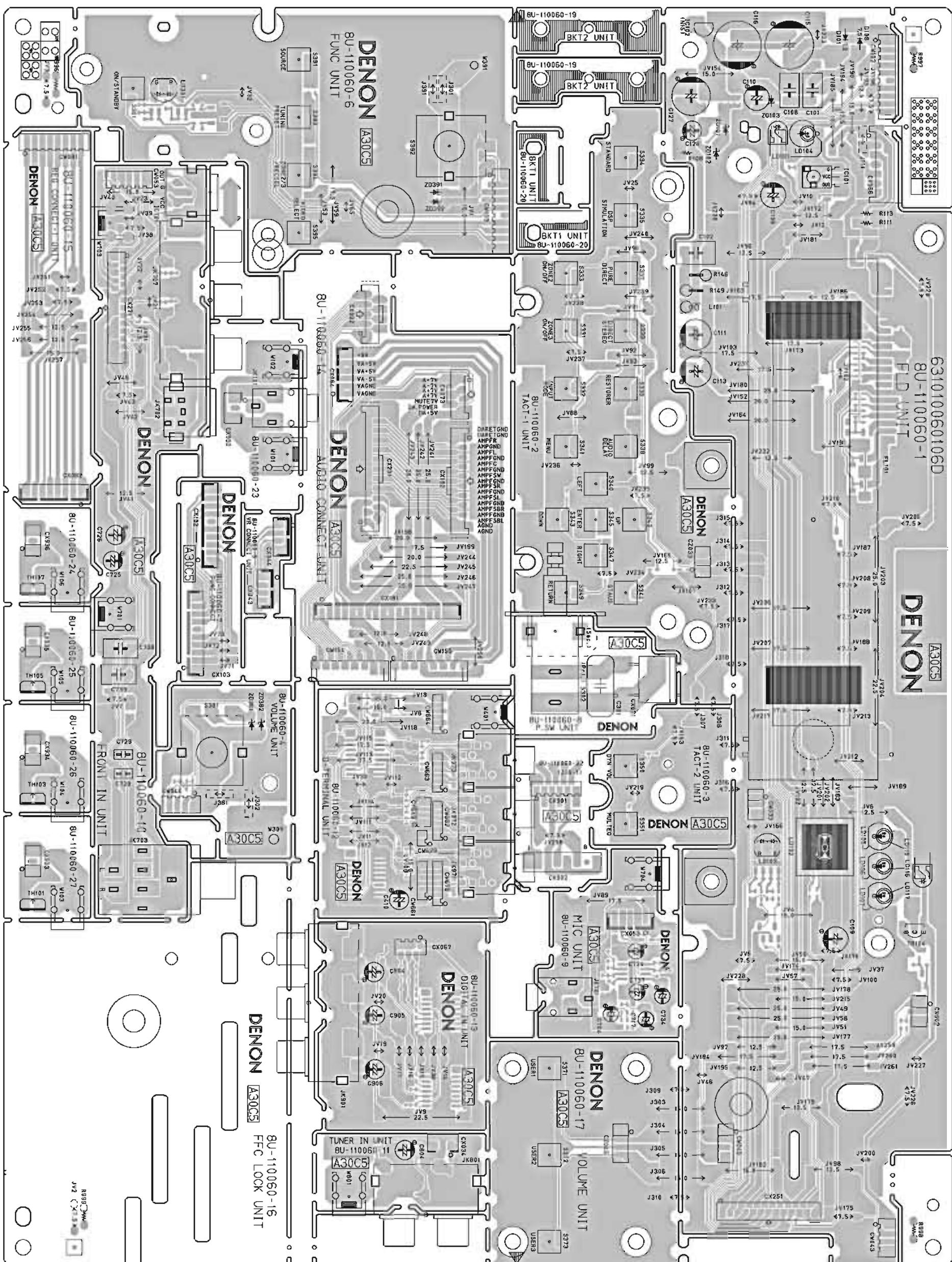
	1G~16G	17G	18G	19G
D0A	1-1A	-	-	-
D1A	2-1A	-	-	-
D2A	3-1A	-	-	-
D3A	4-1A	-	-	-
D4A	5-1A	-	-	-
D5A	1-2A	-	-	-
D6A	2-2A	-	-	-
D7A	3-2A	-	-	-
D8A	4-2A	-	-	-
D9A	5-2A	-	-	-
D10A	1-3A	-	-	-
D11A	2-3A	-	-	dB
D12A	3-3A	-	-	Dp
D13A	4-3A	-	-	3d
D14A	5-3A	-	-	3e
D15A	1-4A	-	-	3c
D16A	2-4A	-	-	3g
D17A	3-4A	-	-	3f
D18A	4-4A	-	-	3b
D19A	5-4A	-	-	3a
D20A	1-5A	-	-	2d
D21A	2-5A	-	-	2e
D22A	3-5A	-	-	2c
D23A	4-5A	-	-	2g
D24A	5-5A	-	-	2f
D25A	1-6A	-	-	2b
D26A	2-6A	-	-	2a
D27A	3-6A	-	-	1d
D28A	4-6A	Z	-	1e
D29A	5-6A	X	-	1c
D30A	1-7A	II	-	1g
D31A	2-7A	PL	-	1f
D32A	3-7A	+	-	1b
D33A	4-7A	ES	-	1a
D34A	5-7A	HD	-	S2

	1G~16G	17G	18G	19G
D0B	1-1B	REC	-	-
D1B	2-1B	RDS	-	-
D2B	3-1B	AUTO	-	-
D3B	4-1B	TUNED	-	-
D4B	5-1B	DI	-	-
D5B	1-2B	DD	-	-
D6B	2-2B	TrueHD	-	-
D7B	3-2B	96/24	-	-
D8B	4-2B	Express	-	-
D9B	5-2B	Neo:6	-	-
D10B	1-3B	STEREO	-	-
D11B	2-3B	MASTER	-	-
D12B	3-3B	-HD	-	MUTE
D13B	4-3B	dts	ATTENDEE	S
D14B	5-3B	TAG	ORGANIZER	Q3
D15B	1-4B	MP3	PARTY	Q2
D16B	2-4B	WMA	EQ	Q1
D17B	3-4B	AAC	VOL	W
D18B	4-4B	PCM	DYN	2
D19B	5-4B	DSD	XT	1
D20B	1-5B	ANA	MULTEQ	M
D21B	2-5B	DIG	AUDYSSEY	H
D22B	3-5B	HDCP	S1	SW3
D23B	4-5B	EXT2	SLEEP	SW2
D24B	5-5B	EXT1	RSTR	SW
D25B	1-6B	LFE	ANA	FR
D26B	2-6B	FR	DIG	C
D27B	3-6B	C	KBD	FL
D28B	4-6B	FL	AUTO	SR
D29B	5-6B	SR	Z4	B
D30B	1-7B	S	Z3	A
D31B	2-7B	SL	Z2	SL
D32B	3-7B	SBR	AL24	SBR
D33B	4-7B	SB	DINR	SB
D34B	5-7B	SBL	HDMI	SBL

--MEMO--

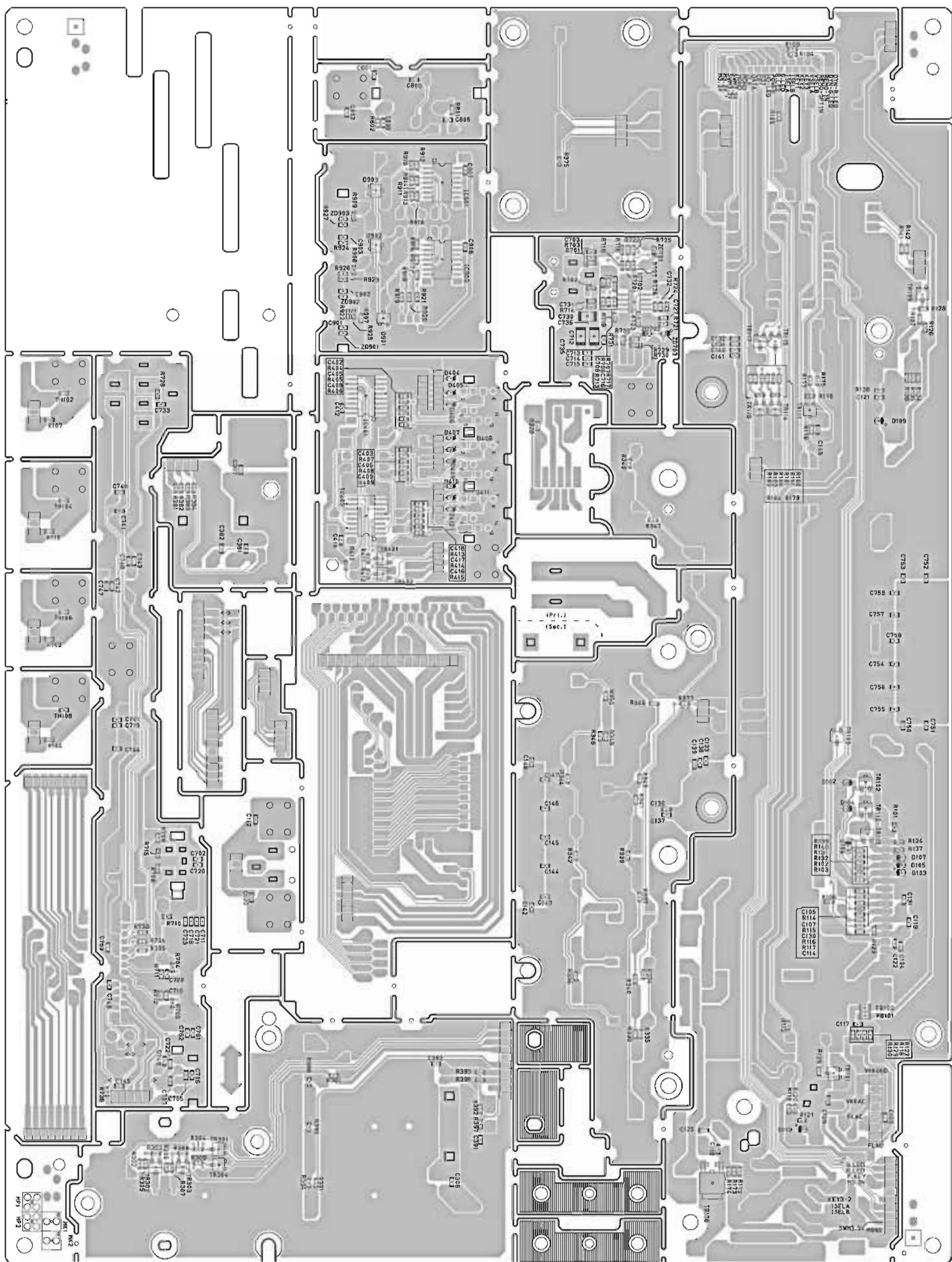
PRINTED WIRING BOARDS

8U-110060 FRONT P.W.B. UNIT (1/2)

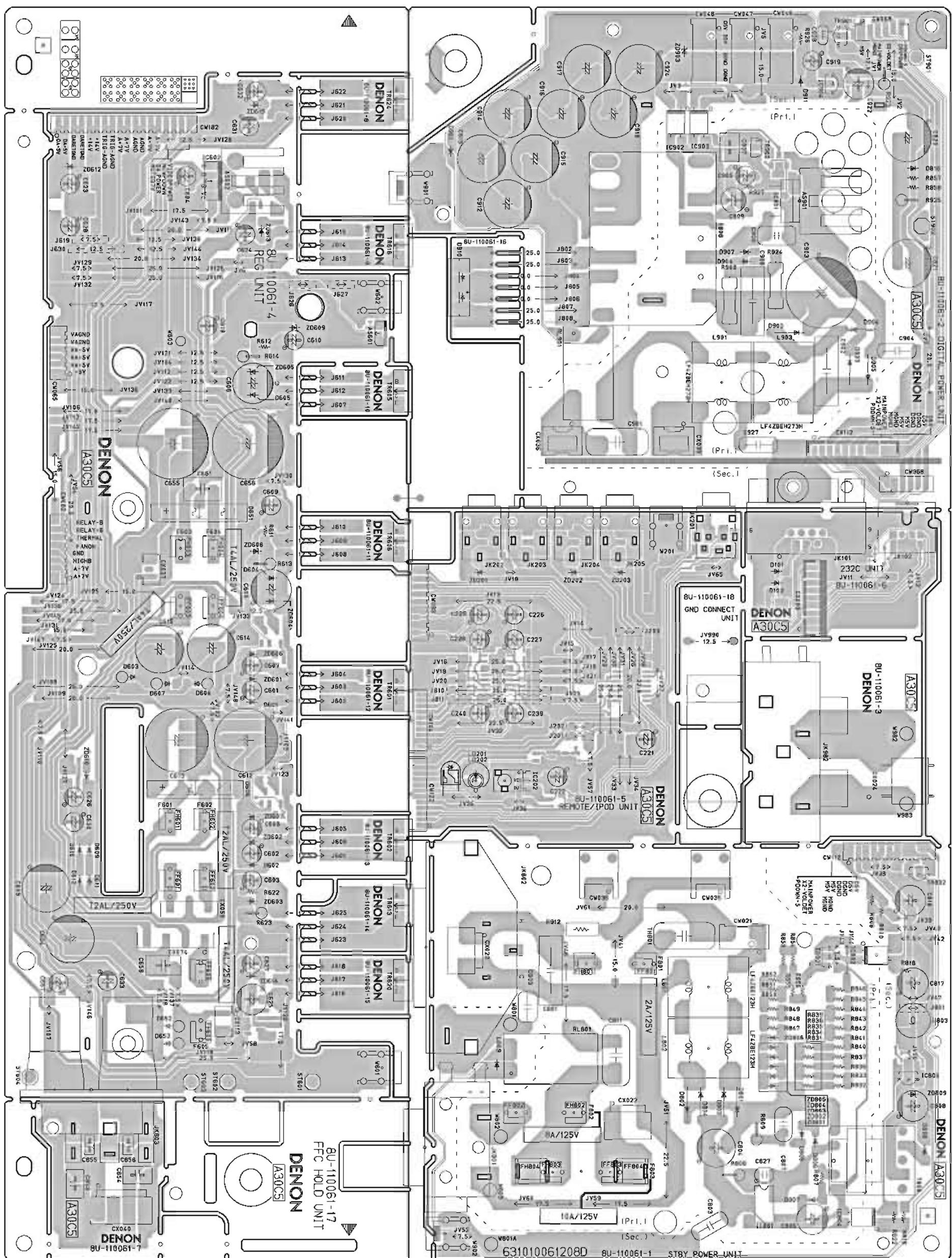


COMPONENT SIDE

8U-110060 FRONT P.W.B. UNIT (2/2)

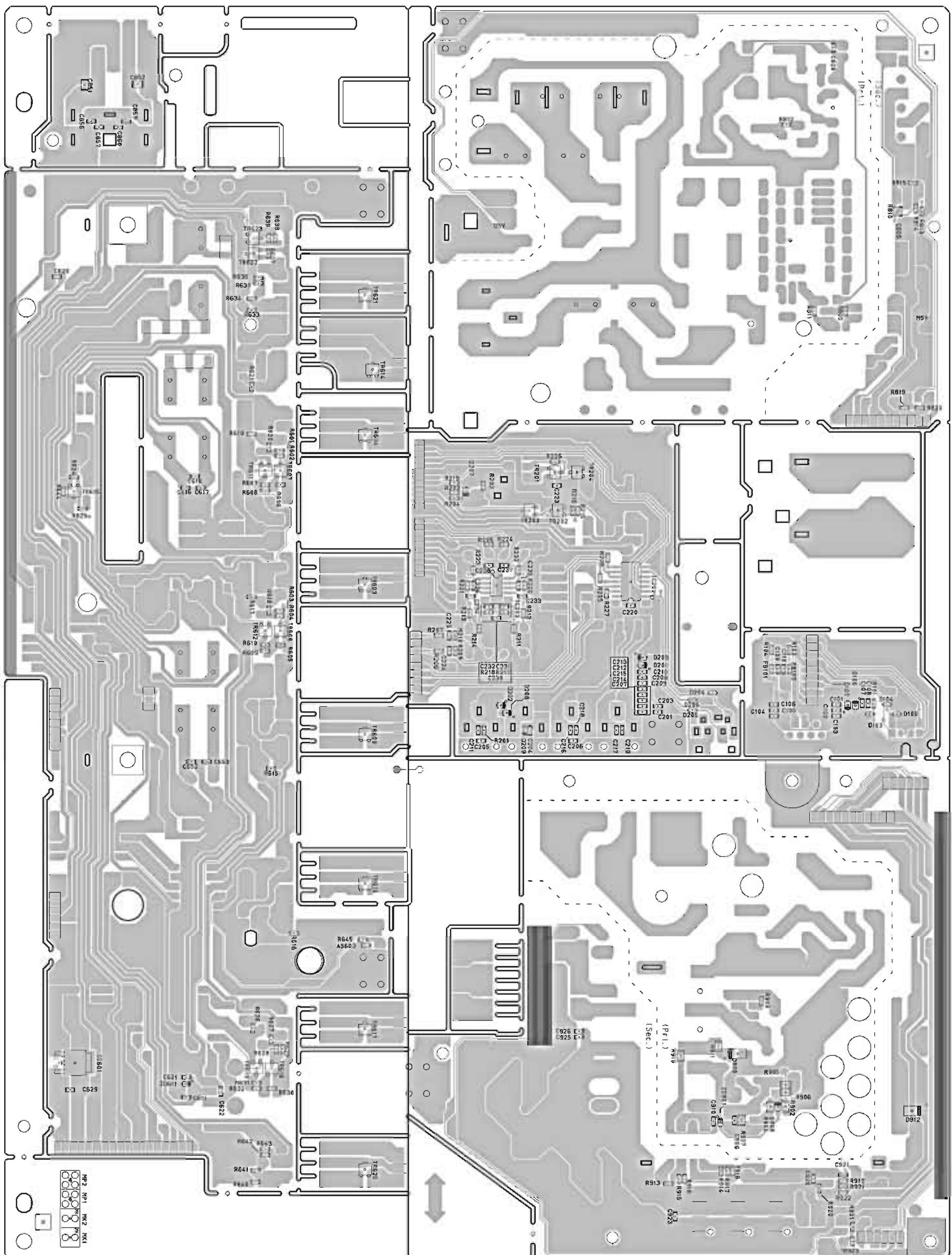


8U-110061 POWER SUPPLY P.W.B. UNIT (1/2)



COMPONENT SIDE

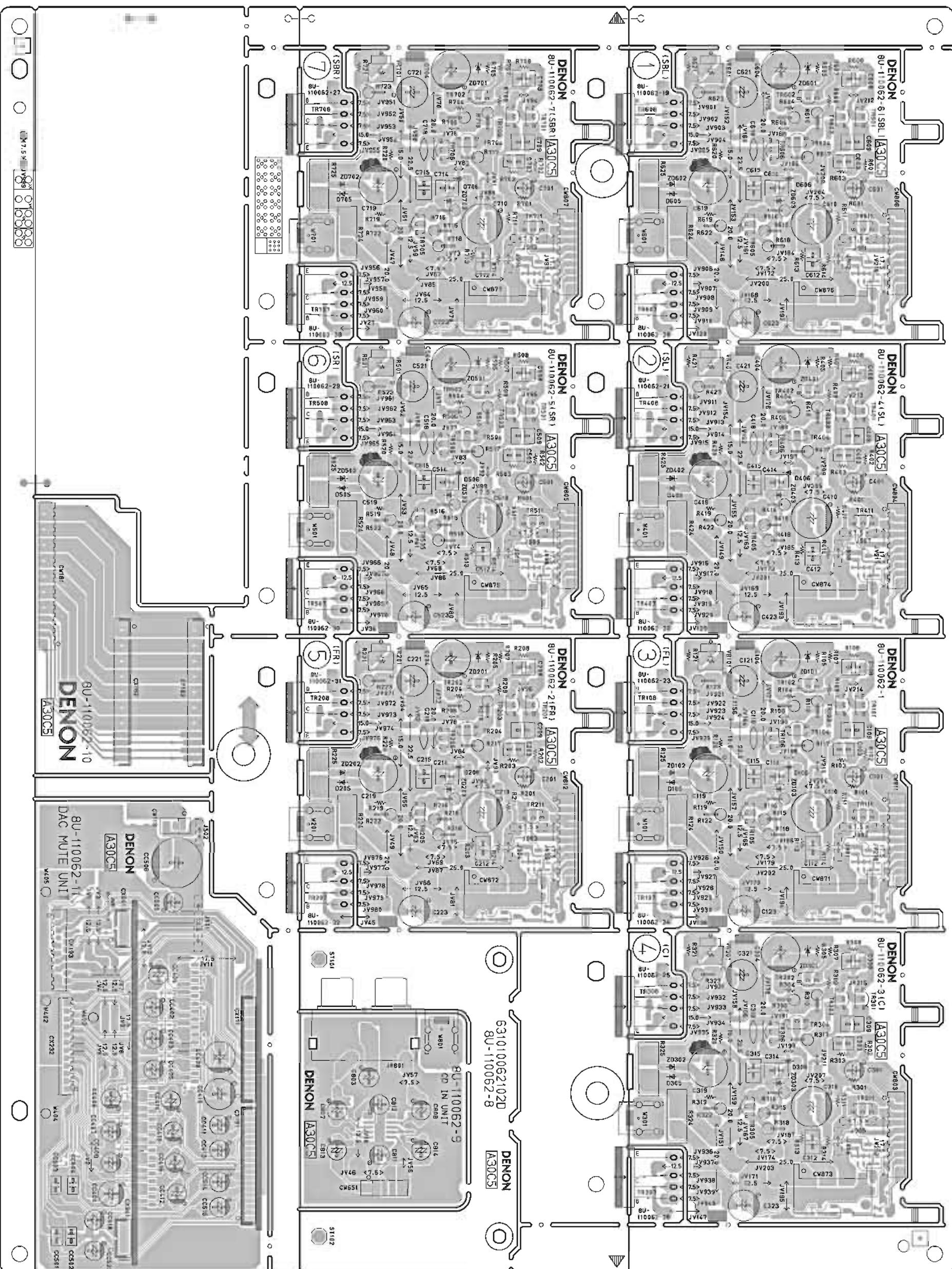
8U-110061 POWER SUPPLY P.W.B. UNIT (2/2)



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FOIL SIDE

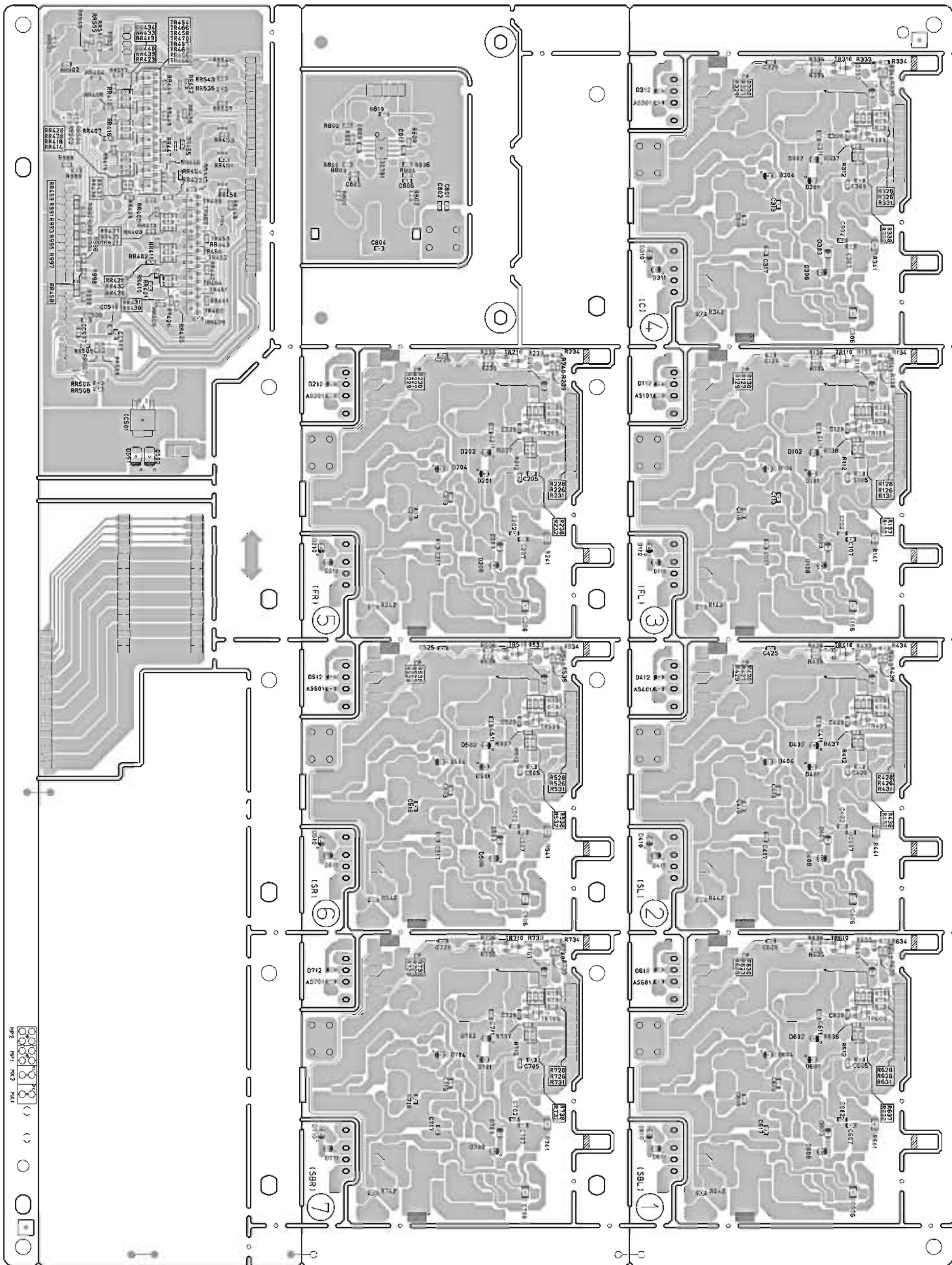
8U-110062 P.AMP P.W.B. UNIT (1/2)



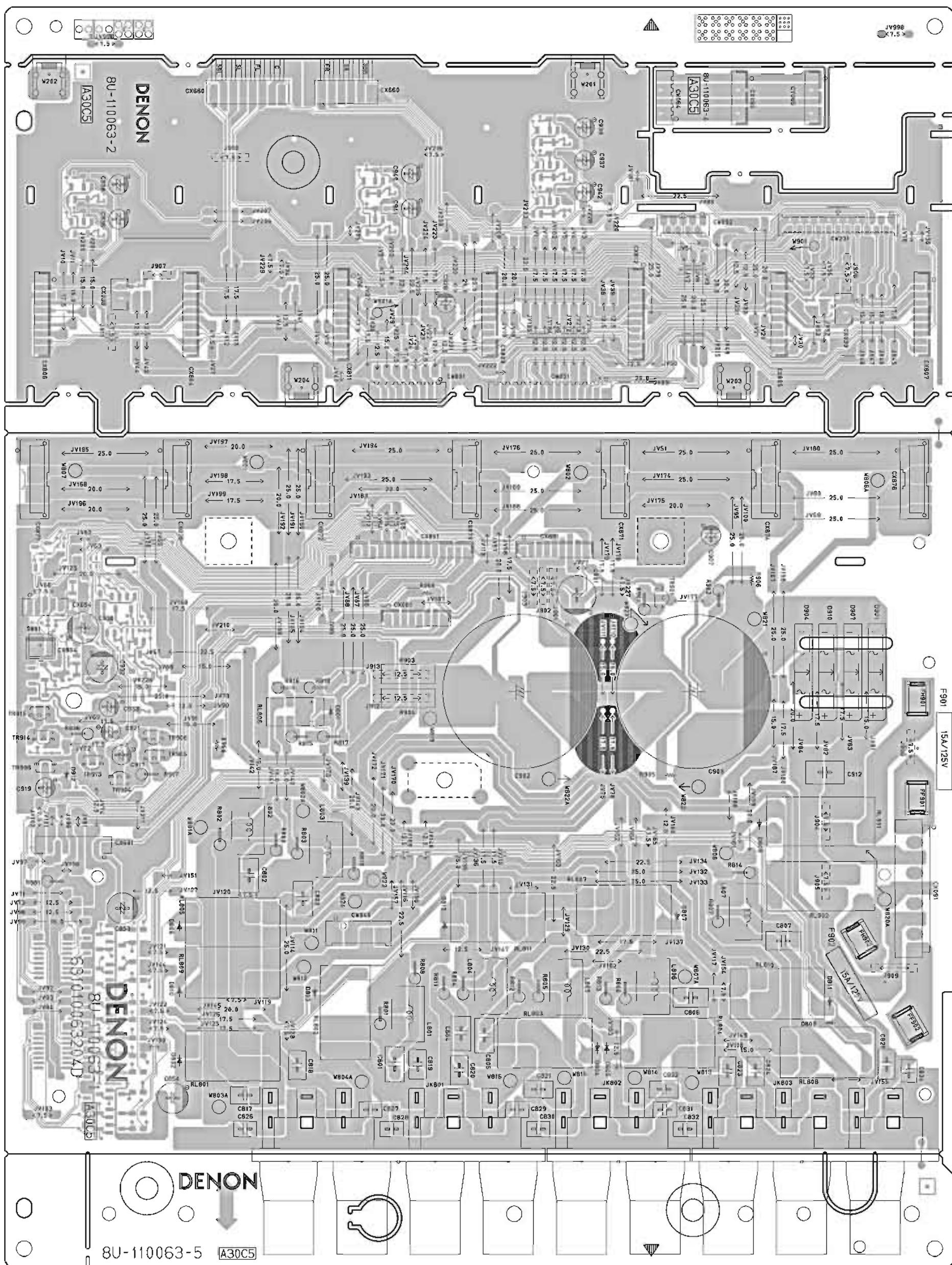
COMPONENT SIDE

AVR-3310C//AVR-3310/AVR990/AVC-3310

8U-110062 P.AMP P.W.B. UNIT (2/2)



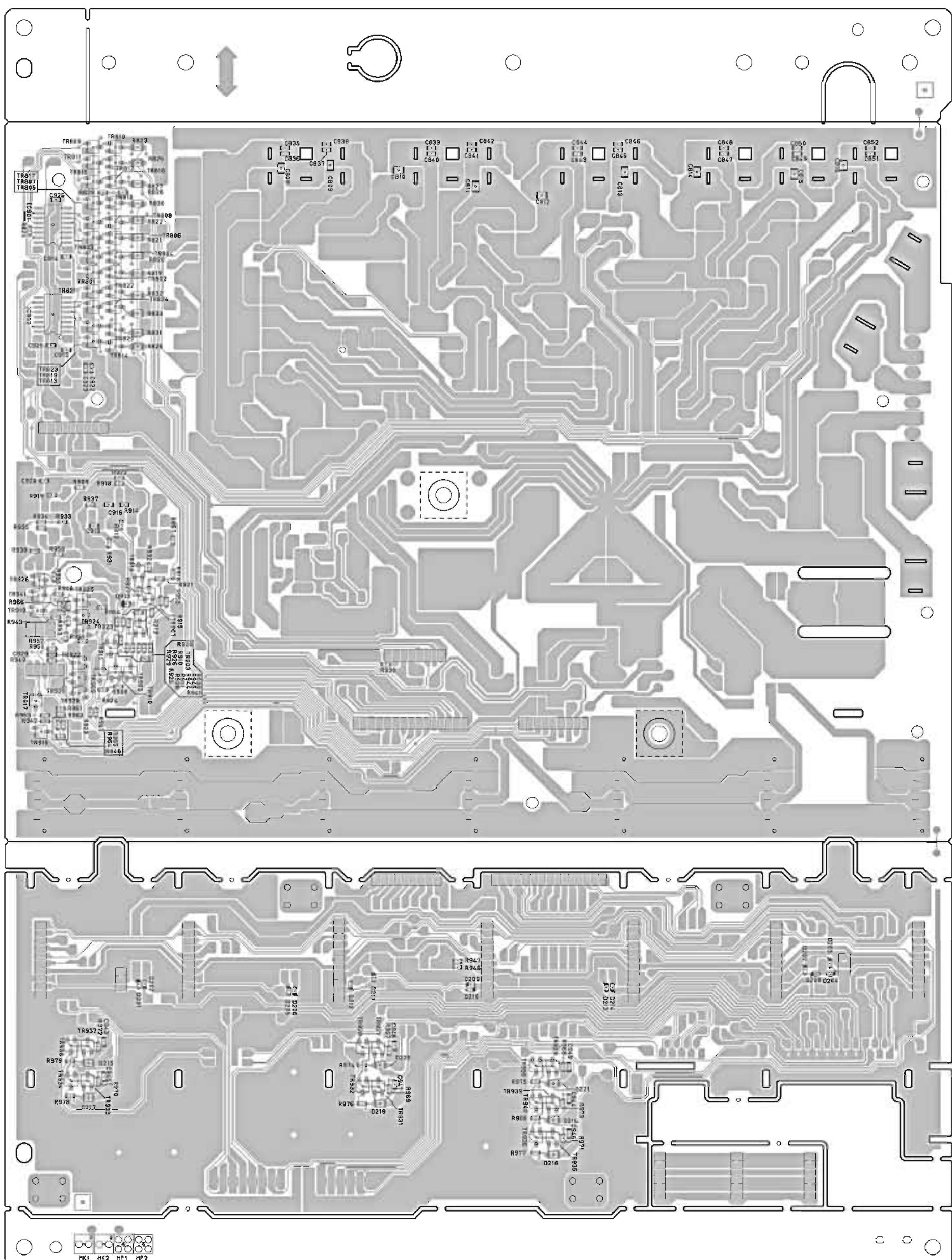
8U-110063 SPEAKER P.W.B. UNIT (1/2)



COMPONENT SIDE

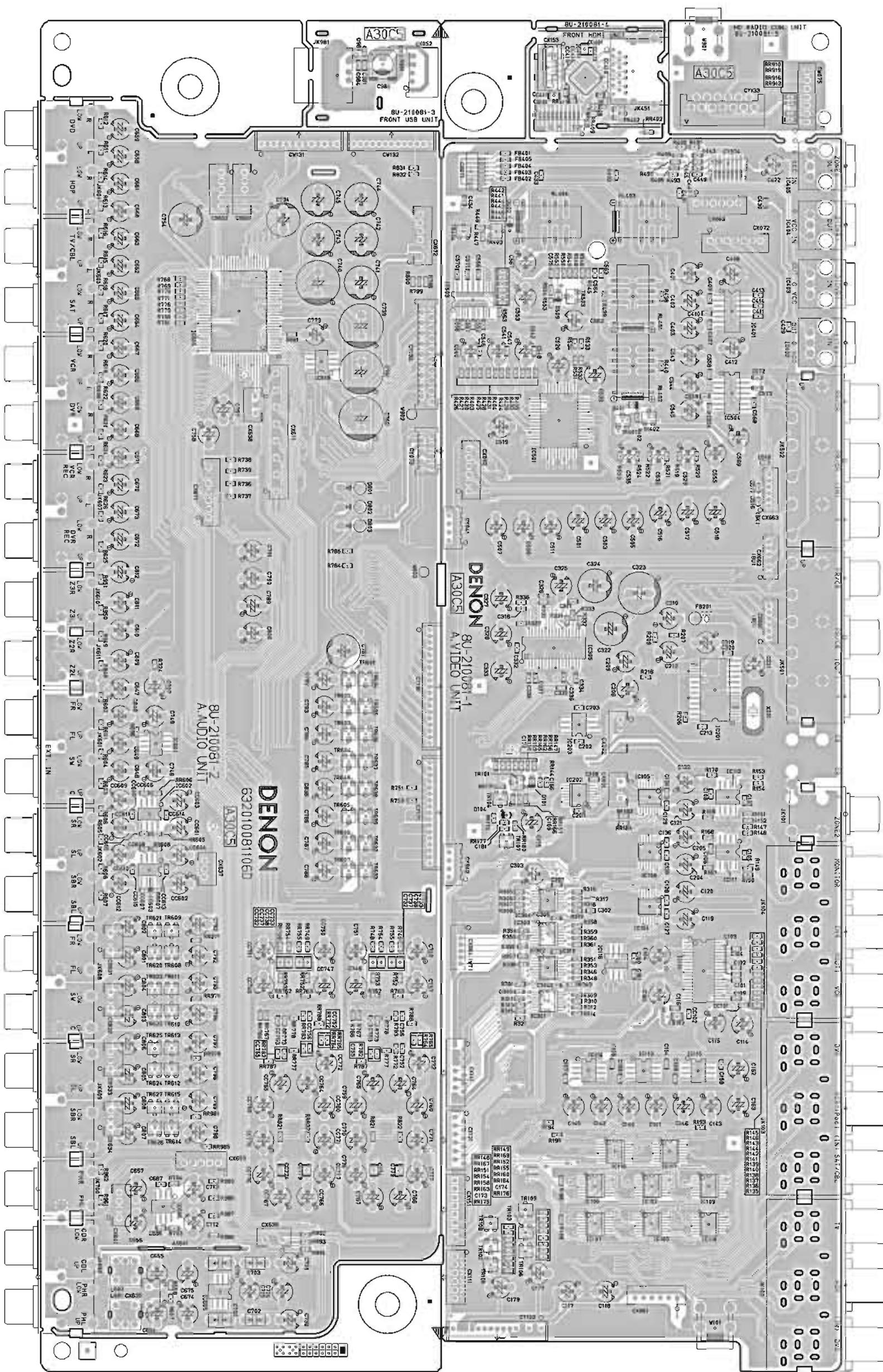
AVR-3310C//AVR-3310/AVR990/AVC-3310

8U-110063 SPEAKER P.W.B. UNIT (2/2)



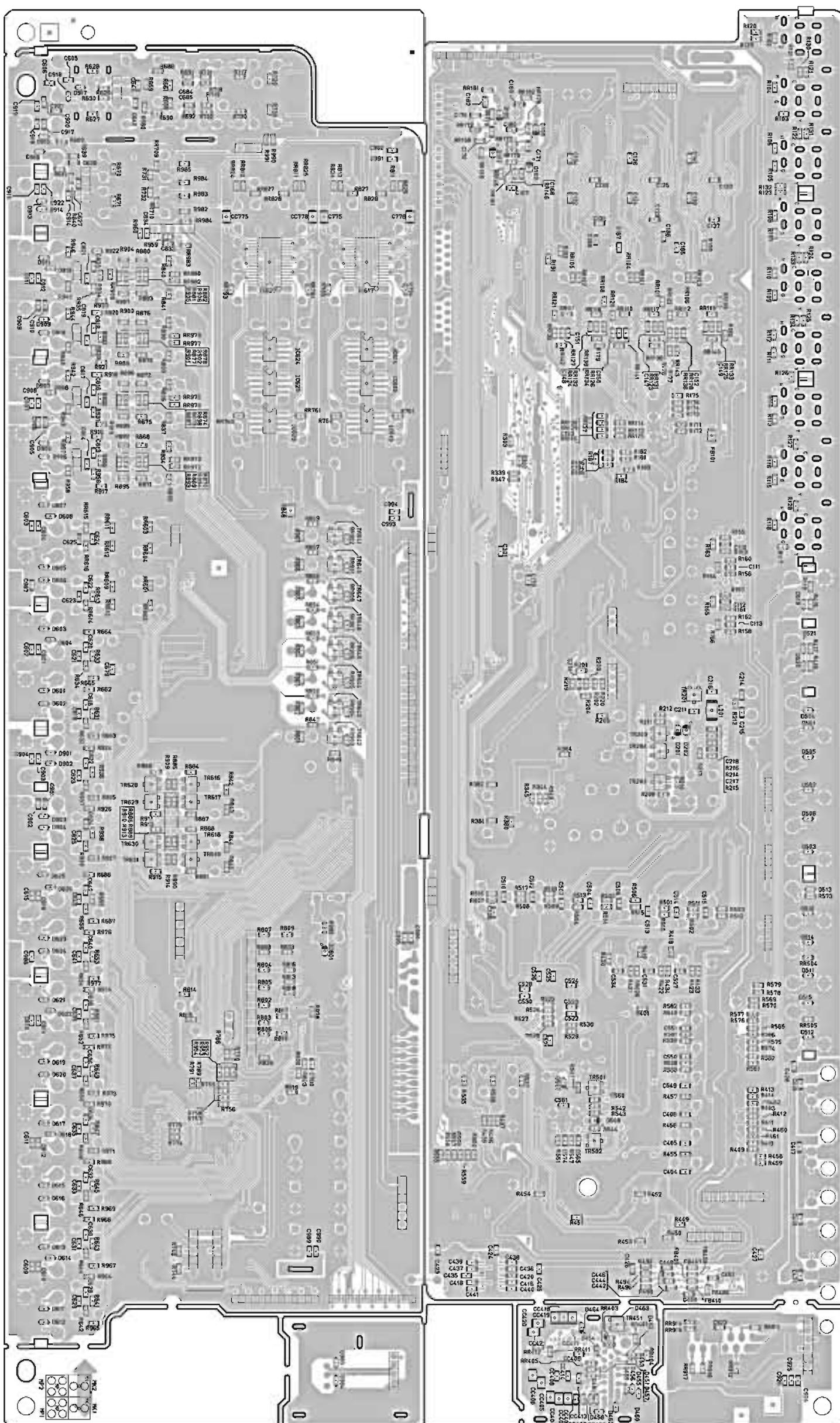
COMPONENT SIDE

8U-210081 A.AUDIO/VIDEO P.W.B. UNIT (1/2)

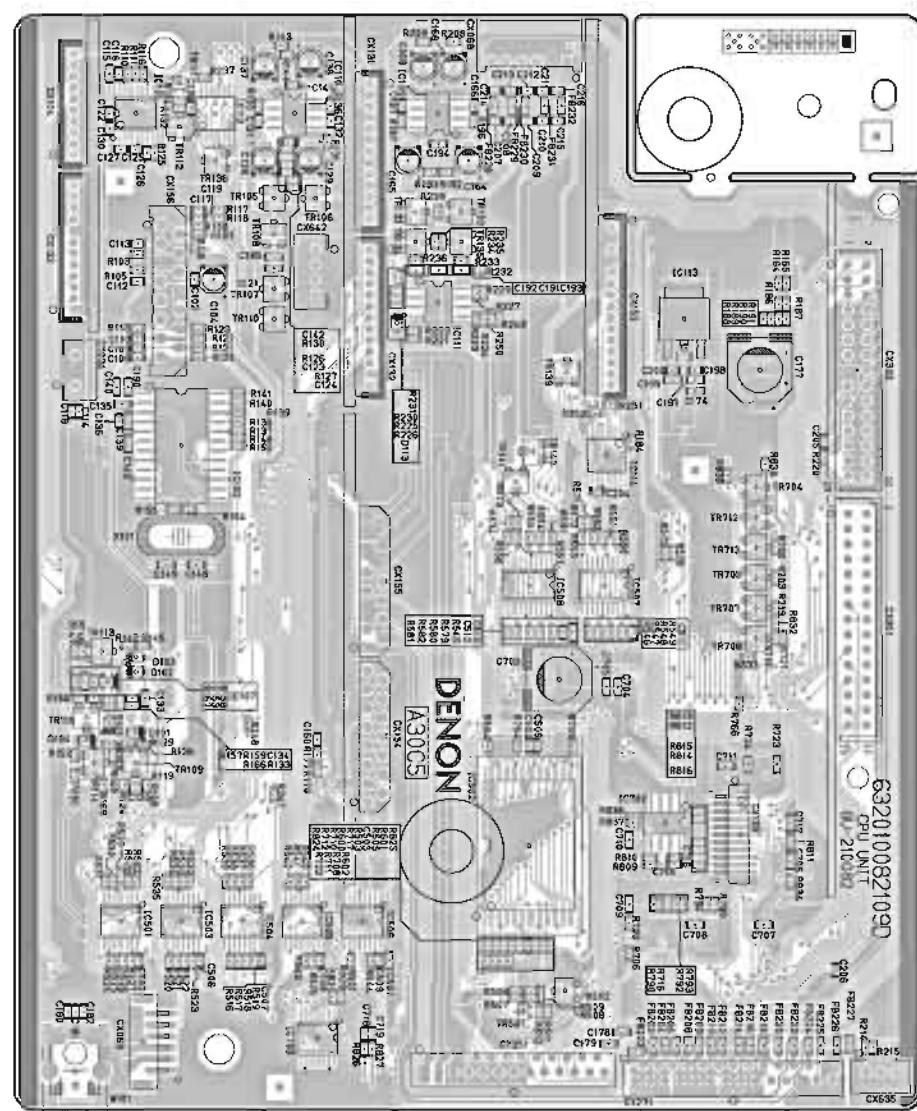


COMPONENT SIDE

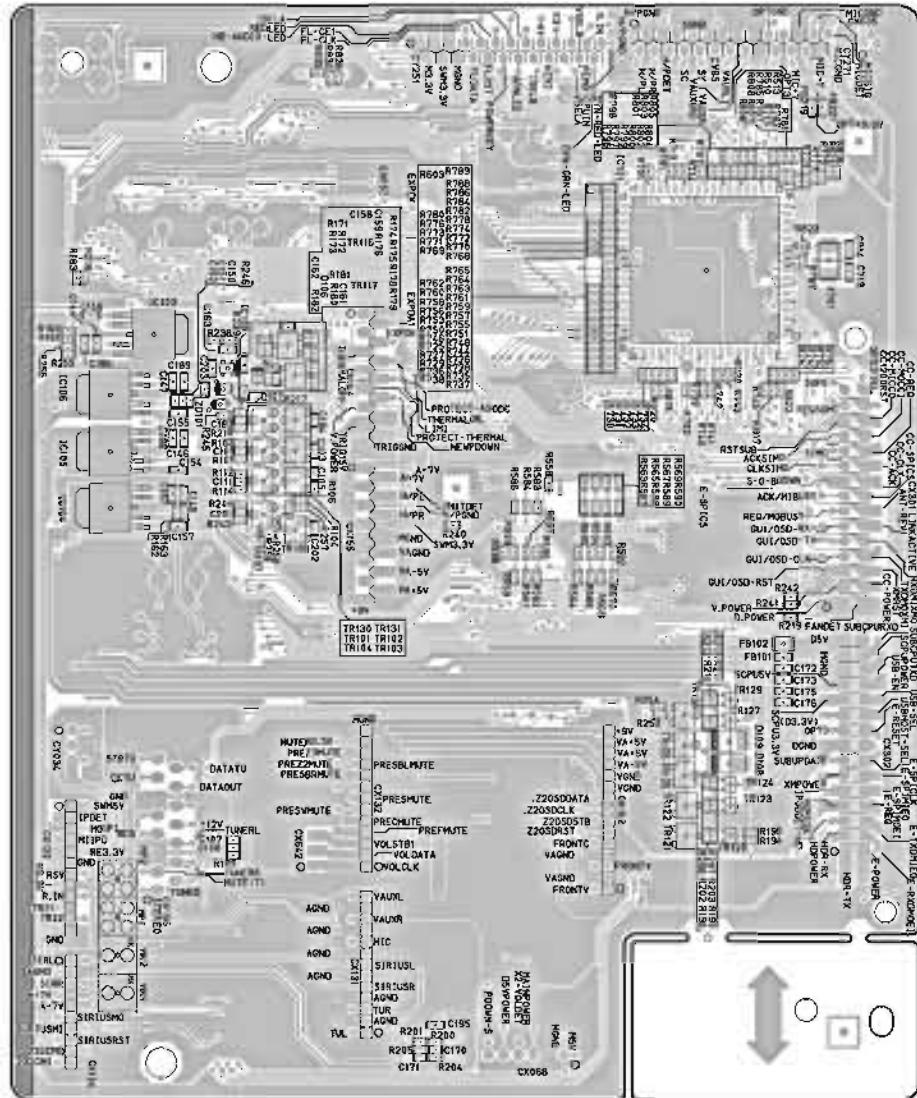
AVR-3310CI/AVR-3310/AVR990/AVC-3310



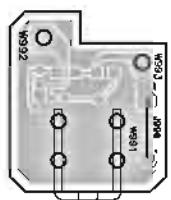
8U-210082 MAIN CPU P.W.B. UNIT



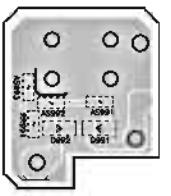
COMPONENT SIDE



FOIL SIDE

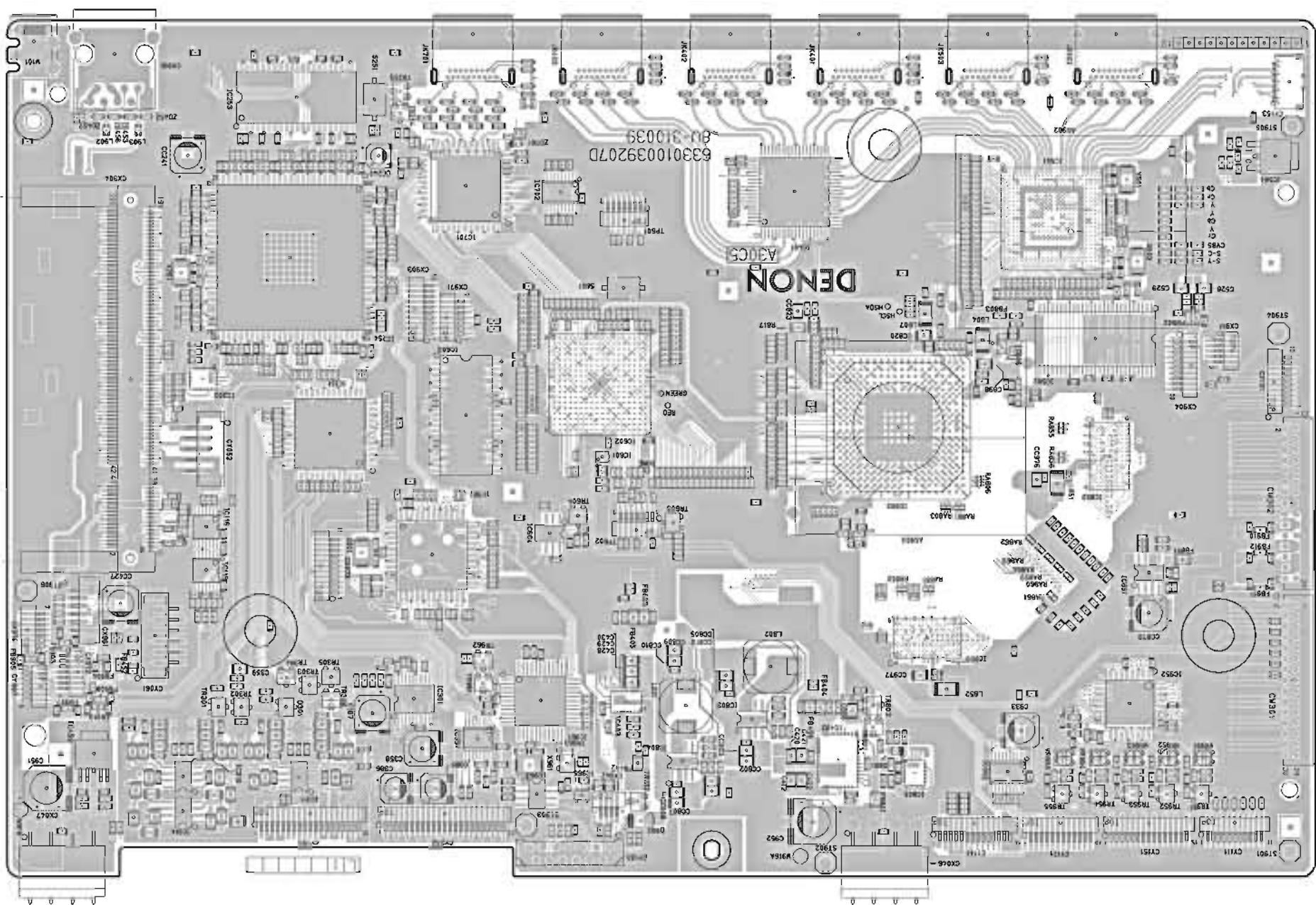


PTC P.W.B. UNIT

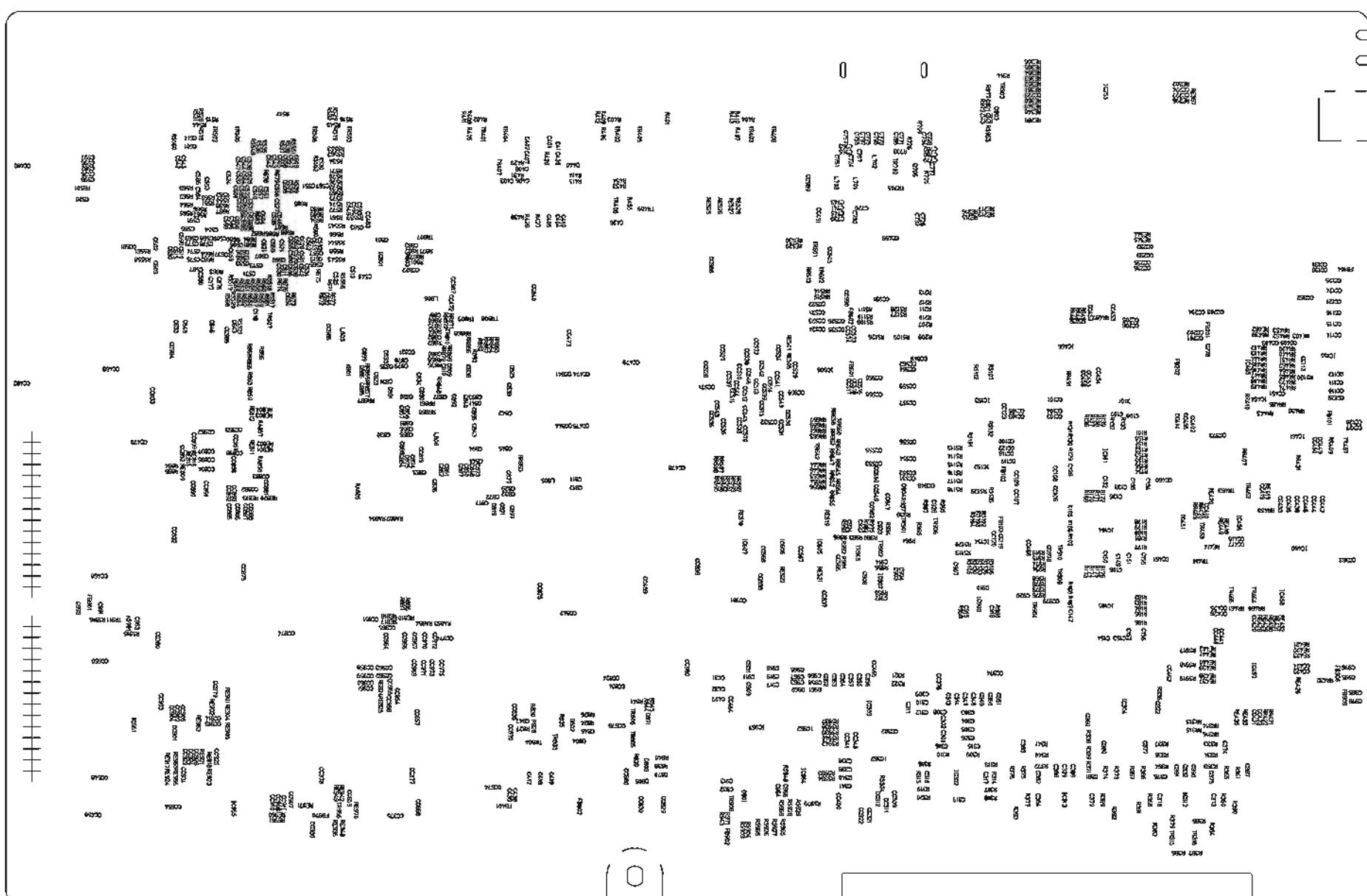
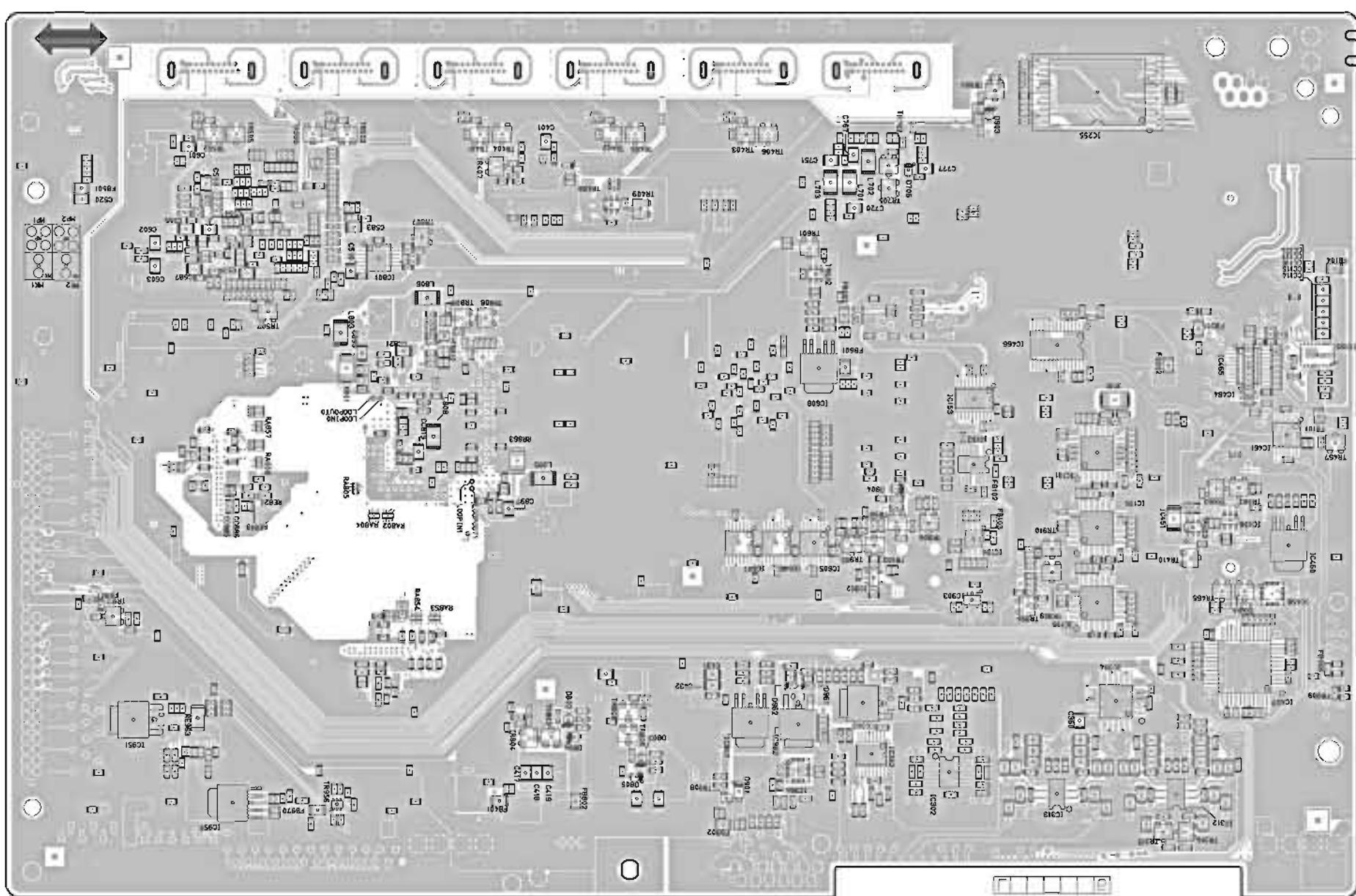


COMPONENT SIDE

8U-310039 DIGITAL P.W.B. UNIT (1/2)



8U-310039 DIGITAL P.W.B. UNIT (2/2)



NOTE FOR PARTS LIST

1. Parts for which "nsp" is indicated on this table cannot be supplied.
2. When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
3. Ordering part without stating its part number can not be supplied.
4. Part indicated with the mark "★" is not illustrated in the exploded view.
5. Not including General-purpose Carbon Film Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
6. Not including General-purpose Carbon Chip Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

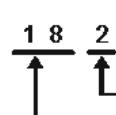
WARNING:

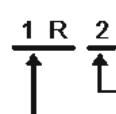
Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.: RN	14K	2E	182	G	FR
Type	Shape and performance	Power	Resistance	Allowable error	Others
RD : Carbon	2B : 1/8 W	F : ±1%	P : Pulse-resistant type		
RC : Composition	2E : 1/4 W	G : ±2%	NL : Low noise type		
RS : Metal oxide film	2H : 1/2 W	J : ±5%	NB : Non-burning type		
RW : winding	3A : 1 W	K : ±10%	FR : Fuse-resistor		
RN : Metal film	3D : 2 W	M : ±20%	F : Lead wire forming		
RK : Metal mixture	3F : 3 W				
	3H : 5 W				

* Resistance

 ⇒ 1800ohm=1.8kohm
 ↑ ↑
 1 8 2
 ————
 Indicates number of zeros after effective number.
 ————
 2-digit effective number.

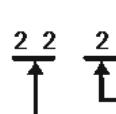
 ⇒ 1.2ohm
 ↑ ↑
 1 R 2
 ————
 1-digit effective number.
 ————
 2-digit effective number, decimal point indicated by R.

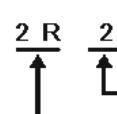
: Units: ohm

● Capacitors

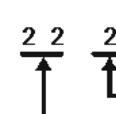
Ex.: CE	04W	1H	3R2	M	BP
Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others
CE : Aluminum foil electrolytic	0J : 6.3 V	F : ±1%	HS : High stability type		
	1A : 10 V	G : ±2%	BP : Non-polar type		
CA : Aluminium solid electrolytic	1C : 16 V	J : ±5%	HR : Ripple-resistant type		
	1E : 25 V	K : ±10%	DL : For charge and discharge		
CS : Tantalum electrolytic	1V : 35 V	M : ±20%	HF : For assuring high frequency		
CQ : Film	1H : 50 V	Z : ±80%	U : UL part		
CK : Ceramic	2A : 100 V	- 20%	C : CSA part		
CC : Ceramic	2B : 125 V	P : +100%	W : UL-CSA part		
CP : Oil	2C : 160 V	C : ±0.25pF	F : Lead wire forming		
CM : Mica	2D : 200 V	D : ±0.5pF			
CF : Metallized	2E : 250 V	= : Others			
CH : Metallized	2H : 500 V				
	2J : 630 V				

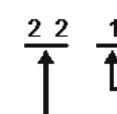
* Capacity (electrolyte only)

 ⇒ 2200μF
 ↑ ↑ ↑
 2 2 2
 ————
 Indicates number of zeros after effective number.
 ————
 2-digit effective number.
 · Units: μF.

 ⇒ 2.2μF
 ↑ ↑
 2 R 2
 ————
 1-digit effective number.
 ————
 2-digit effective number, decimal point indicated by R.
 · Units: μF.

* Capacity (except electrolyte)

 ⇒ 2200pF=0.0022 μF
 ↑ ↑ ↑
 2 2 2
 ————
 Indicates number of zeros after effective number.
 (More than 2)
 ————
 2-digit effective number.
 · Units:pF

 ⇒ 220pF
 ↑ ↑ ↑
 2 2 1
 ————
 Indicates number of zeros after effective number.
 (0 or 1)
 ————
 2-digit effective number.
 · Units:pF

· When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

PARTS LIST OF P.W.B. UNIT

* Parts for which "nsp" is indicated on this table cannot be supplied.

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

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

EU(AVR-3310) : U.S.A. model	EC(AVR-3310) : Canada model
E2(AVR-3310) : Europe model	E1C(VC-3310) : Chaina model
990E3(AVR-990) : U.S.A. & Canada model	

8U-110060 FRONT P.W.B. UNIT ASS'Y (for EU,EC,E2 model)

8U-110060B FRONT P.W.B. UNIT ASS'Y (for 990E3 model)

8U-110060C FRONT P.W.B. UNIT ASS'Y (for E1C model)

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
△	IC101	00D2623602003	GP1UE271XKVF				
	IC102	00D2680073905	ICP-N15T				
	IC701	00D2690240003	GP1FMV31RK0F				
	IC702	00D2631289900	AZ4580MTR-E1				
	IC901	00D2621205907	TC74HCU04AF(TP1) +C				
	IC902	00D2623561908	TC74VHC14F				
	TR101	00D2690191903	KRA104S-RTK/P (47K-47K)				
	TR102	00D2730464901	KTC3875S-GR-RTK/P				
	TR103	00D2690193901	KRC104S-RTK/P (47K-47K)				
	TR106	00D2730494900	KTC2022D-Y-RTF/P				
	TR111-113	00D2730464901	KTC3875S-GR-RTK/P				
	TR114	00D2710312905	KTA1504S-GR-RTK/P				
	TR115	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR116	00D2710312905	KTA1504S-GR-RTK/P				
	TR117	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR301	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR302,303	00D2710312905	KTA1504S-GR-RTK/P				
	TR304	00D2690193901	KRC104S-RTK/P (47K-47K)				
	D101	00D2760704916	1SR35-400A(T82)				
	D103	00D2760794900	KDS160-RTK/P				
	D105	00D2760794900	KDS160-RTK/P				
	D107	00D2760794900	KDS160-RTK/P				
	D108	00D2760704916	1SR35-400A(T82)				
	D901	00D2760738908	KDS226-RTK/P (A-K)				
	D902	00D2760738908	KDS226-RTK/P (A-K)				
	D903	00D2760738908	KDS226-RTK/P (A-K)				
	ZD101	00D2760761975	MTZJ18B T77				
	ZD102	00D2760762903	MTZJ24B T77				
	ZD103	00D2760636903	MTZJ8.2BT77				
	ZD701-703	00D2760683930	UDZS5.1B-TE17 +C				
	LD101	263010032409S	SIR-341STA49				
	LD102	176010001402S	SELT5E20C-S(TP15)				
	LD103	00D9630366108	LED BL-BEG204-L 5PI			K500052004010S	
	LD301	00D9630366108	LED BL-BEG204-L 5PI			K500052004010S	
	FL101	172010006108D	FLD(19-ST-02GINK)				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
RESISTORS GROUP							
	R146	00D2442043937	RS14B3A100JNBST(S)				
	R149	00D2442043937	RS14B3A100JNBST(S)				
CAPACITORS GROUP							
	C102	00D2561042903	CF93A2E104KT				
	C103,104	nsp	CK73B1E104KT +1608				
	C105	nsp	CC73CH1H101JT +1608				
	C106	00D2544737989	CE04W1H100MT(SF)				
	C107	nsp	CC73CH1H101JT +1608				
	C109	00D2544302974	CE04W1A101MT(SRE)				
	C110	00D2544737989	CE04W1H100MT(SF)				
	C114	nsp	CC73CH1H300JT +1608				
	C115,116	00D2544812707	CE04W1H471MC(SRG/K15)				
	C119	nsp	CK73B1E473KT +1608				
	C126	00D2544586978	CE04W2A010MT(RA3)				
	C127	00D2544725920	CE04W1J101MT(GR)				
	C129	nsp	CK73B1H103KT (1608) +1608				
	C130	nsp	CC73CH1H101JT +1608				
	C131	nsp	CK73B1H103KT (1608) +1608				
	C137	nsp	CK73B1E104KT +1608				
	C139	nsp	CK73B1E104KT +1608				
	C141	nsp	CK73B1E104KT +1608				
	C142,143	nsp	RM73B-0R0KT +1608				
	C145	nsp	RM73B-0R0KT +1608				
	C147,148	nsp	RM73B-0R0KT +1608				
	C149	nsp	CK73B1E104KT +1608				
	C306,307	nsp	CK73B1E104KT +1608				
	C381,382	nsp	CK73B1E104KT +1608				
	C391,392	nsp	CK73B1E104KT +1608				
	C701	nsp	CK73B1E104KT +1608				
	C702	nsp	CK73B1H102KT +1608				
	C704	00D2544737947	CE04W1H010MT(SF)				
	C705	nsp	CC73CH1H101JT +1608				
	C706	nsp	CK73B1H102KT +1608				
	C707	nsp	CK73B1A105KT +1608				
	C708	nsp	CC73CH1H101JT +1608				
	C709,710	nsp	CC73CH1H331JT +1608				
	C711	nsp	CK73B1H102KT +1608				
	C713	nsp	CK73B1E104KT +1608				
	C714	nsp	CK73B1H102KT +1608				
	C715	nsp	CC73CH1H101JT +1608				
	C716	nsp	CC73CH1H910JT +1608				
	C717	00D2544737947	CE04W1H010MT(SF)				
	C718,719	nsp	CC73CH1H101JT +1608				
	C720,721	nsp	CK73B1E104KT +1608				
	C722,723	nsp	CK73B1H102KT +1608				
	C724	00D2544737947	CE04W1H010MT(SF)				
	C725,726	00D2544722949	CE04W1H010MT(GR)				
	C727	nsp	CC73CH1H101JT +1608				
	C731	nsp	CK73B1E104KT +1608				
	C732	nsp	CC73CH1H910JT +1608				
	C733	nsp	CC73CH1H101JT +1608				
	C734	00D2544737947	CE04W1H010MT(SF)				
	C735	nsp	CK73B1E104KT +1608				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
C737		00D2544737947	CE04W1H010MT(SF)				
C740,741		nsp	CC73CH1H102JT +1608				
C742,743		nsp	CK73B1E104KT +1608				
C745,746		nsp	CC73CH1H101JT +1608				
C747		nsp	CK73B1H102KT +1608				
C748		nsp	CC73CH1H101JT +1608				
C749		nsp	CK73B1H102KT +1608				
C751,752		nsp	CC73CH1H221JT +1608				
C756,757		nsp	CC73CH1H221JT +1608				
C760		nsp	CK73B1E104KT +1608				
C761		nsp	CK73B1H102KT +1608				
C762		nsp	CC73CH1H101JT +1608				
C801		nsp	CC73CH1H221JT	E1C			
C802		nsp	CK73B1H103KT (1608) +1608	E1C			
C803		nsp	CC73CH1H221JT	E1C			
C804		00D2544722949	CE04W1H010MT(GR)	E1C			
C805.806		nsp	CC73CH1H331JT	E1C			
C904-906		00D2544722978	CE04W1H4R7MT(GR)				
C-907,908		nsp	CK73B1E104KT +1608				

OTHERS PARTS GROUP

AS101,102	00D4610862045	FL SPACER (T=5)					
CW043,044	nsp	4P CON.SOCKET(TUC-P)					
CW053	nsp	5P CON.SOCKET TUC-P					
CW081	nsp	8P CON.SOCKET(TUC-P)					
CW102,103	nsp	10P CON.SOCKET TUC-P					
CW154,155	nsp	15P JE CON.PLUG					
CX021	nsp	2P VH CONN.BASE(L)RD					
CX034	nsp	3P CONN.BASE(KR-PH)		E1C			
CX043,044	nsp	4P CON.BASE(TUC-P)					
CX053	nsp	5P CON.BASE TUC-P					
CX064	nsp	6P CON.BASE(TUC-P)					
CX066	nsp	5268-07A 7P ANGLE			L102526800700S		
CX067	nsp	6P FFC BASE(9610SA)					
CX073	nsp	7P CON BASE TWG-P					
CX082	nsp	8P CON BASE(TUC-P)					
CX092	nsp	9P CON.BASE TWG-P					
CX102,103	nsp	10P CON.BASE TUC-P					
CX181	nsp	18P CON.BASE TUC-P					
CX192	nsp	19P CON.BASE(TWG-P)					
CX231	nsp	23P CON.BASE TWG-P					
CX251	00D2051316000	25P FFC BASE(9610S)Y					
CX271	00D2051329000	27P FFC BASE(9610SB)					
FB101,102	nsp	RM73B-0R0KT +2125					
JK701	00D2048260004	MINI JACK					
JK702	00D2048757009	1P PIN S-JACK(MDC-074V)-AU					
JK703	00D2048217031	H/P JACK (BK(AU))					
JK707	963643005070S	TERMINAL RCA 3PIN			G606303G0500YS		
JK801	00D2048760009	2P PIN JACK(NI)		E1C			
JK901	963643005340S	RCA-303A-02 OR OR OR CAP			G606303A0200YS		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	S301	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	S302	90M-SP001380R	SDDL-005-S(C-UL)		G000122006060S		
	S331	00D9630095305	SW,TACT SKHV10910D01	EU, EC, E2, E1C	G180040500010S		
	S332-345	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	S347	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	S349-351	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	S371-373	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	S381	00D9630387408	SW,ENCODER EC16B24SO		G121162400070S		
	S391	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	S392	00D9630387408	SW,ENCODER EC16B24SO		G121162400070S		
	S393	00D9630095305	SW,TACT SKHV10910D01	EU, EC, 990E3, E2	G180040500010S		
	S394.395	00D9630095305	SW,TACT SKHV10910D01		G180040500010S		
	W701	nsp	M3 SCREW TERMINAL				
	W703,704	nsp	M3 SCREW TERMINAL				

△2

△2

8U-110061 PUWER SUPPLY P.W.B. UNIT ASS'Y (for EU,EC,990E3 model)

8U-110061A PUWER SUPPLY P.W.B. UNIT ASS'Y (for E2 model)

8U-110061C PUWER SUPPLY P.W.B. UNIT ASS'Y (for E1C model)

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC201	00D2623676903	TC74VHCT08AF(E,K,F)				
	IC203	00D2631289900	AZ4580MTR-E1	EU, EC, 990E3			
	IC601	00D2631275901	UPC2905BT1D				
	IC602	00D2631274012	NJM2396F09				
	IC801	231010063000S	STR-A6079				
	IC802	00D2623047008	PC123Y22	EU, EC, 990E3			
	IC804	00D2623047008	PC123Y22				
	IC805	00D2631256904	TA76432S(TPE6,F)				
	IC901	232810025706S	TOP248YN	EU, EC, 990E3			
	IC901	00D2650123005	TOP246YN	E2, E1C			
	IC902,903	00D2623047008	PC123Y22				
	IC904	00D2631256904	TA76432S(TPE6,F)				
	TR202	00D2730464901	KTC3875S-GR-RTK/P				
	TR203	00D2690191903	KRA104S-RTK/P (47K-47K)				
	TR601	214050006000S	2SC4935				
	TR602	212050008000S	2SA1869				
	TR603	00D2730464901	KTC3875S-GR-RTK/P				
	TR604	00D2710312905	KTA1504S-GR-RTK/P				
	TR605	212050008000S	2SA1869				
	TR606	214050006000S	2SC4935				
	TR607	00D2730464901	KTC3875S-GR-RTK/P				
	TR608	00D2710312905	KTA1504S-GR-RTK/P				
	TR609	00D2730464901	KTC3875S-GR-RTK/P				
	TR610,611	00D2710312905	KTA1504S-GR-RTK/P				
	TR612	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR613	214050006000S	2SC4935				
	TR614	00D2730464901	KTC3875S-GR-RTK/P				
	TR616	214050006000S	2SC4935				
	TR617	00D2730464901	KTC3875S-GR-RTK/P				
	TR618	00D2710312905	KTA1504S-GR-RTK/P				
	TR619	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR624	00D2730442004	2SC4793 (Y)				
	TR625	00D2730479909	2N5551S-RTK/P				
	TR801	214050007409S	2SC5549	EU, EC, 990E3			
	TR802	00D2730468907	KTC3199-GR-AT/P				
	TR901	00D2730468907	KTC3199-GR-AT/P				
	D103	251310004507S	CG0603MLC-12LE	EU, EC, 990E3			
	D104	251310004507S	CG0603MLC-12LE	EU, EC, 990E3			
	D104	00D2472018903	RM73B-0R0KT	E2, E1C			
	D105	251310004507S	CG0603MLC-12LE	EU, EC, 990E3			
	D201-203	00D2760794900	KDS160-RTK/P				
	D204-206	251310004507S	CG0603MLC-12LE				
	D208	00D2760794900	KDS160-RTK/P				
	D209	00D2760750902	RB521S-30TE61 +REF				
	D603	00D2760704903	1SR35-400A(T93X)				
	D606	00D2760855001	D3SB20-7103				
	D607,608	00D2760704903	1SR35-400A(T93X)				
	D651	00D2760855001	D3SB20-7103				
	D652,653	00D2760704903	1SR35-400A(T93X)				
	D801-804	00D2760729904	EM01AT (V1)				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	D805,806	00D2760813001	AP01C				
	D807,808	201050006301S	RF101A2S				
	D809	00D2760401905	1SS133T77 (TAPE)				
	D901	00D2760401905	1SS133T77 (TAPE)				
	D902-905	00D2760729904	EM01AT (V1)				
	D906,907	00D2760813001	AP01C				
	D909	00D2760751901	1SR154-400TE25 +REF				
	D910	203050018706S	D25SC6M				
	D911	00D2760401905	1SS133T77 (TAPE)				
	D912	00D2760684900	RB051L-40TE25 +C				
	ZD201	00D2760760963	MTZJ6.2B T77				
	ZD603	00D2760477900	HZS16-1 TD(TAPE)				
	ZD606,607	00D2760464900	HZS7A-1TD				
	ZD608,609	00D2760468906	HZS9B-1TD				
	ZD613	00D2760466908	HZS7C-1TD				
	ZD615	00D2760468906	HZS9B-1TD				
	ZD801-806	00D2760485905	HZS36-1TD	EU, EC, 990E3			
	ZD903	00D2760760950	MTZJ5.6B T77				
	TH801	00D2790044002	NTH11D8R0LA				

RESISTORS GROUP

R613,614	00D2442051974	RS14B3A102JNBST(S)					
R623	00D2442051974	RS14B3A102JNBST(S)					
R808	00D2442043979	RS14B3A5R6JNBST(S)					
R809	00D2442686909	RS14B3D154JNBST(S)					
R810	nsp	RM73B-273FT_1608					
R814	nsp	RM73B-273FT_1608					
R815	nsp	RM73B-103FT +1608					
R908	00D2442675732	RS14B3D104JNBF(ERG)					
R912	121050030705S	RC05GF2H106K(UL)					
R920	00D2472041970	RM73B-752DT(1608)					
R924	00D2442675732	RS14B3D104JNBF(ERG)					
R925	00D2442043924	RS14B3A680JNBST (S)					

CAPACITORS GROUP

C106,107	nsp	CK73B1E104KT +1608					
C108	nsp	CK73B1H102KT +1608		EU, EC, 990E3			
C109,110	nsp	CC73CH1H101JT +1608					
C201	nsp	CK73B1E104KT +1608					
C203	nsp	CC73CH1H221JT +1608					
C204-207	nsp	CK73B1E104KT +1608					
C208	nsp	CC73CH1H221JT +1608					
C209,210	nsp	CK73B1E104KT +1608					
C211	nsp	CK73B1H102KT +1608					
C212	nsp	CC73CH1H221JT +1608					
C213	nsp	CK73B1E104KT +1608					
C214	nsp	CC73CH1H221JT +1608					
C216,217	nsp	CC73CH1H221JT +1608					
C218,219	nsp	CK73B1E104KT +1608					
C220	nsp	CK73B1H102KT +1608					
C221	00D2544722981	CE04W1H100MT(GR)					
C224,225	nsp	CC73CH1H331JT +1608		EU, EC, 990E3			

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	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C226-229	00D2544722981	CE04W1H100MT(GR)	EU, EC, 990E3			△2
	C230	nsp	CK73B1E104KT +1608	EU, EC, 990E3			△2
	C237,238	nsp	CK73B1E104KT +1608	EU, EC, 990E3			△2
	C239,240	00D2544722981	CE04W1H100MT(GR)	EU, EC, 990E3			△2
	C601,602	00D2544722994	CE04W1H220MT(GR)				
	C603	00D2544722981	CE04W1H100MT(GR)				
	C604	00D2544722994	CE04W1H220MT(GR)				
	C605,606	00D2544723922	CE04W1H101MT(GR)	EU, EC, 990E3			△2
	C605,606	00D2544580712	CE04W1H101MC(ROB)	E2, E1C			△2
	C607,608	00D2544722981	CE04W1H100MT(GR)				
	C609,610	00D2544722981	CE04W1H100MT(GR)	EU, EC, 990E3			△2
	C609,610	00D2544583942	CE04W1H100MT(ROB)	E2, E1C			△2
	C611	nsp	CK73B1E104KT +1608				
	C612,613	00D2544761735	CE04W1C472MC(SMQ)				
	C614,615	00D2544522796	CE04W1V102MC SMG/RE3				
	C618	nsp	CK73B1H104KT +1608				
	C619	00D2544722949	CE04W1H010MT(GR)				
	C621	nsp	CK73B1E104KT +1608				
	C622	nsp	CK73B1H104KT +1608				
	C623	00D2544722994	CE04W1H220MT(GR)				
	C624	00D2544722981	CE04W1H100MT(GR)				
	C628	00D2544722994	CE04W1H220MT(GR)				
	C629	nsp	CK73B1E104KT +1608				
	C631	00D2544722994	CE04W1H220MT(GR)				
	C632,633	00D2544722981	CE04W1H100MT(GR)				
	C651	00D2561042903	CF93A2E104KT				
	C654	00D2544812707	CE04W1H471MC(SRG/K15)				
	C655,656	134050080201S	CE04W1E472M(R0)				
	C657	00D2544722949	CE04W1H010MT(GR)				
	C658	00MDF15104351	0.1UF,J,N,50V				
	C659	00D2544812707	CE04W1H471MC(SRG/K15)				
△	C801	00D2568038004	CF99-2EAC104M				
△	C803	00D2538029713	CK45F2EAC471KC(KX)				
	C804	134050085404S	CE04W2G3R3MT(KMG)				△2
	C804	134050091409S	CE04W2G1R0MT(KMG)	EU, EC, 990E3			
	C805	nsp	CK73B1A224KT +1608	E2, E1C			
	C806	134050069402S	CE04W2AH270MT EB5(KY)				
△	C807	00D2534548706	CC45R3A102KC				
	C808	00D2544651913	CE04W0J102MT H15(KY)				
△	C809	00D2538032700	CK452EAC102MC(KX)				
△	C811	00D2538022707	CK45F2EAC103MC				
	C817	00D2544651913	CE04W0J102MT H15(KY)				
	C821	134050084203S	CE04W0J682MC(KMG)K25S				
	C827	132050037201S	CC45SL3D150JC				
	C828	nsp	CK73B1H103KT (1608) +1608				
△	C901	00D2538022707	CK45F2EAC103MC				
△	C902	00D2568038004	CF99-2EAC104M				
	C903	00D2544588714	CE04W2D221MC(KMG)				△2
	C903	00D2544589713	CE04W2G101MC(KMG)	EU, EC, 990E3			
△	C904	00D2538029700	CK45F2EAC222MC (KX)	E2, E1C			
	C905	00D2544654907	CE04W1H220MT E11(KY)				
△	C908	00D2568038004	CF99-2EAC104M				
	C909	00D2544525913	CE04W1H470MT SMG/RE3				
	C912-916	00D2544770700	CE04W0J562MC K35(KY)				
	C919	00D2544722981	CE04W1H100MT(GR)				
	C921	nsp	CK73B1A224KT +1608				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
C923 C925,926 C928	nsp nsp 132010087406S	CK73B1E104KT +1608 CK73B0J475KT +1608 CK45R1H103KT					
OTHERS PARTS GROUP							
AS602 AS901	00D4170476023 nsp	RADIATOR RADIATOR					
CW021 CW035,036 CW047 CW065 CW068	nsp nsp nsp nsp nsp	2P-3P L=500mm VA-SDN JL CONNECTOR(F-E) 4P L=210mm VH-SDN 6P CON.SOCKET(TUC-P) 20010WS-06A00		L101200100610S			
CW082 CW093 CW104 CW112 CW122	nsp nsp nsp nsp nsp	8P CON.SOCKET(TUC-P) 9P CON.SOCKET TUC-P 10P SOCKET(9120) 11P CON.SOCKET TUC-P 12P SOCKET(9120)					
CW182 CX022 CX024 CX035,036	nsp nsp nsp nsp	18P CON.SOCKET TUC-P 2P VH CON BASE (Blue) 2P VH CONN. BASE (L) JL CONNECTOR(BT-E)	E2				▲
CX055 CX074 CX093 CX112	nsp nsp nsp nsp	5P EH CONNECTOR BASE 7P EH CONNECTOR BASE 9P CON.BASE TUC-P 11P CON.BASE TUC-P					
△ F601,602 △ F603,604 △ F605 △ F605 △ F801	00D2061096022 00D2061096051 00D2061096051 00D2061096022 00D2061094037	FUSE(218)T2AL250V FUSE(218)T4AL250V FUSE(218)T4AL250V FUSE(218)T2AL250V FUSE(233)T2AL125V	EU, EC, 990E3 E2, E1C EU, EC, 990E3				△ △ △ △ △
△ F801 △ F802 △ F802 △ F803 △ F803	00D2061087073 00D2061096080 00D2061096035 00D2061046043 00D2061015087	FUSE(ET1.6A) FUSE(218)T8AL250V FUSE(218)T2.5AL250V FUSE (10A) FUSE(4.0A)	E2, E1C EU, EC, 990E3 E2 EU, EC, 990E3 E2, E1C				△ △ △ △ △
FB101,102 FF601-605 FF801	nsp nsp nsp	RM73B-0R0KT +1608 FUSE CLIP(TAPE) FUSE CLIP(TAPE)					
FF802 FF803 FH601-605 FH801	nsp nsp nsp nsp	FUSE CLIP(TAPE) FUSE CLIP(TAPE) FUSE CLIP(TAPE) FUSE CLIP(TAPE)	EU, EC, 990E3, E2				△
FH802 FH803 JK101	nsp nsp 00D2051305008	FUSE CLIP(TAPE) FUSE CLIP(TAPE) 9P D-SUB CONNECTOR	EU, EC, 990E3, E2 EU, EC, 990E3				△
JK102	00D9630333601	MINI DIN CONNECTOR 8P YKF51-5397N		G403515397000S			

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	JK201	00D9630294601	JACK,D3.5 EARPHONE		G40100350000YS		
	JK202,203	00D2048260004	MINI JACK				
	JK204,205	00D2048649007	MINI JACK (RD)				
△	JK801	00D2033976002	AC OUTLET(2P)	EU, EC, 990E3			
△	JK802	00D2033958004	AC_INLET/E3-DIP	EU, EC, 990E3, E2			
△	JK802	00D2033958004	AC_INLET/E3-DIP	E1C			
△	JK982	641050012003D	AC OUTLET SEMCO	E2			
△	L801,802	00D2390035042	L.FILTER(LF4ZBE123H)				
△	L901	00D2390035026	L.FILTER(LF4ZBE273H)				
△	L903	00D2390035026	L.FILTER(LF4ZBE273H)				
△	RL801	00D2140241002	RELAY DL1SU TV-8				
△	RL901	00D2140242014	RELAY(DLS5D1-O_M)				
	ST601-604	nsp	STYLE PIN				
	ST901,902	nsp	STYLE PIN				
△	T806	102010014018S	MINI-SW-TRANS				
△	T808	102010014001S	SW-TRANS	EU, EC, 990E3			
△	T808	102010017000S	SW-TRANS(E2)	E2, E1C			
	W201	nsp	M3 SCREW TERMINAL				
	W601,602	nsp	M3 SCREW TERMINAL				
	W802	nsp	2P VA-SIN UL1672 AWG20	E2			
	W901,902	nsp	M3 SCREW TERMINAL				
		nsp	SHIELD CASE				
		0RD4713304015	3X8 CBS-Z				
		nsp	FUSE LABEL(T1.6AL)	E2, E1C			
		nsp	FUSE LABEL(T2.5AL)	E2			
		nsp	FUSE LABEL(T4AL)	E2, E1C			
		nsp	FUSE LABEL(T2AL)	E2, E1C			

8U-110062 P.AMP P.W.B. UNIT ASS'Y (for EU,EC model)

8U-110062A P.AMP P.W.B. UNIT ASS'Y (for E2,E1C model)

8U-110062B P.AMP P.W.B. UNIT ASS'Y (for 990E3 model)

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	TR101	00D2710301903	KTA1268-BL-AT/P				
	TR102	00D2710314903	KTA1024-Y-AT/P				
	TR103	00D2710301903	KTA1268-BL-AT/P				
	TR104	00D2730471907	KTC3206-Y-AT/P				
	TR105	00D2710314903	KTA1024-Y-AT/P				
	TR106	00D2730471907	KTC3206-Y-AT/P				
	TR109	00D2730479909	2N5551S-RTK/P				
	TR110	00D2710318909	2N5401S-RTK/P				
	TR111	00D2710301903	KTA1268-BL-AT/P				
	TR201	00D2710301903	KTA1268-BL-AT/P				
	TR202	00D2710314903	KTA1024-Y-AT/P				
	TR203	00D2710301903	KTA1268-BL-AT/P				
	TR204	00D2730471907	KTC3206-Y-AT/P				
	TR205	00D2710314903	KTA1024-Y-AT/P				
	TR206	00D2730471907	KTC3206-Y-AT/P				
	TR209	00D2730479909	2N5551S-RTK/P				
	TR210	00D2710318909	2N5401S-RTK/P				
	TR211	00D2710301903	KTA1268-BL-AT/P				
	TR301	00D2710301903	KTA1268-BL-AT/P				
	TR302	00D2710314903	KTA1024-Y-AT/P				
	TR303	00D2710301903	KTA1268-BL-AT/P				
	TR304	00D2730471907	KTC3206-Y-AT/P				
	TR305	00D2710314903	KTA1024-Y-AT/P				
	TR306	00D2730471907	KTC3206-Y-AT/P				
	TR309	00D2730479909	2N5551S-RTK/P				
	TR310	00D2710318909	2N5401S-RTK/P				
	TR311	00D2710301903	KTA1268-BL-AT/P				
	TR401	00D2710301903	KTA1268-BL-AT/P				
	TR402	00D2710314903	KTA1024-Y-AT/P				
	TR403	00D2710301903	KTA1268-BL-AT/P				
	TR404	00D2730471907	KTC3206-Y-AT/P				
	TR405	00D2710314903	KTA1024-Y-AT/P				
	TR406	00D2730471907	KTC3206-Y-AT/P				
	TR409	00D2730479909	2N5551S-RTK/P				
	TR410	00D2710318909	2N5401S-RTK/P				
	TR411	00D2710301903	KTA1268-BL-AT/P				
	TR501	00D2710301903	KTA1268-BL-AT/P				
	TR502	00D2710314903	KTA1024-Y-AT/P				
	TR503	00D2710301903	KTA1268-BL-AT/P				
	TR504	00D2730471907	KTC3206-Y-AT/P				
	TR505	00D2710314903	KTA1024-Y-AT/P				
	TR506	00D2730471907	KTC3206-Y-AT/P				
	TR509	00D2730479909	2N5551S-RTK/P				
	TR510	00D2710318909	2N5401S-RTK/P				
	TR511	00D2710301903	KTA1268-BL-AT/P				
	TR601	00D2710301903	KTA1268-BL-AT/P				
	TR602	00D2710314903	KTA1024-Y-AT/P				
	TR603	00D2710301903	KTA1268-BL-AT/P				
	TR604	00D2730471907	KTC3206-Y-AT/P				
	TR605	00D2710314903	KTA1024-Y-AT/P				
	TR606	00D2730471907	KTC3206-Y-AT/P				
	TR609	00D2730479909	2N5551S-RTK/P				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	TR610	00D2710318909	2N5401S-RTK/P				
	TR611	00D2710301903	KTA1268-BL-AT/P				
	TR701	00D2710301903	KTA1268-BL-AT/P				
	TR702	00D2710314903	KTA1024-Y-AT/P				
	TR703	00D2710301903	KTA1268-BL-AT/P				
	TR704	00D2730471907	KTC3206-Y-AT/P				
	TR705	00D2710314903	KTA1024-Y-AT/P				
	TR706	00D2730471907	KTC3206-Y-AT/P				
	TR709	00D2730479909	2N5551S-RTK/P				
	TR710	00D2710318909	2N5401S-RTK/P				
	TR711	00D2710301903	KTA1268-BL-AT/P				
	D101,102	00D2760794900	KDS160-RTK/P				
	D104	00D2760794900	KDS160-RTK/P				
	D105,106	00D2760401905	1SS133T77 (TAPE)				
	D107	00D2760794900	KDS160-RTK/P				
	D110,111	00D2760794900	KDS160-RTK/P				
	D112	204350014506S	KDR720E				
	D201,202	00D2760794900	KDS160-RTK/P				
	D204	00D2760794900	KDS160-RTK/P				
	D205,206	00D2760401905	1SS133T77 (TAPE)				
	D207	00D2760794900	KDS160-RTK/P				
	D210,211	00D2760794900	KDS160-RTK/P				
	D212	204350014506S	KDR720E				
	D301,302	00D2760794900	KDS160-RTK/P				
	D304	00D2760794900	KDS160-RTK/P				
	D305,306	00D2760401905	1SS133T77 (TAPE)				
	D307	00D2760794900	KDS160-RTK/P				
	D310,311	00D2760794900	KDS160-RTK/P				
	D312	204350014506S	KDR720E				
	D401,402	00D2760794900	KDS160-RTK/P				
	D404	00D2760794900	KDS160-RTK/P				
	D405,406	00D2760401905	1SS133T77 (TAPE)				
	D407	00D2760794900	KDS160-RTK/P				
	D410,411	00D2760794900	KDS160-RTK/P				
	D412	204350014506S	KDR720E				
	D501,502	00D2760794900	KDS160-RTK/P				
	D504	00D2760794900	KDS160-RTK/P				
	D505,506	00D2760401905	1SS133T77 (TAPE)				
	D507	00D2760794900	KDS160-RTK/P				
	D510,511	00D2760794900	KDS160-RTK/P				
	D512	204350014506S	KDR720E				
	D601,602	00D2760794900	KDS160-RTK/P				
	D604	00D2760794900	KDS160-RTK/P				
	D605,606	00D2760401905	1SS133T77 (TAPE)				
	D607	00D2760794900	KDS160-RTK/P				
	D610,611	00D2760794900	KDS160-RTK/P				
	D612	204350014506S	KDR720E				
	D701,702	00D2760794900	KDS160-RTK/P				
	D704	00D2760794900	KDS160-RTK/P				
	D705,706	00D2760401905	1SS133T77 (TAPE)				
	D707	00D2760794900	KDS160-RTK/P				
	D710,711	00D2760794900	KDS160-RTK/P				
	D712	204350014506S	KDR720E				
	ZD101	00D2760459928	HZS5B-3TD				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	ZD102,103	00D2760461903	HZS6A-1TD				
	ZD201	00D2760459928	HZS5B-3TD				
	ZD202,203	00D2760461903	HZS6A-1TD				
	ZD301	00D2760459928	HZS5B-3TD				
	ZD302,303	00D2760461903	HZS6A-1TD				
	ZD401	00D2760459928	HZS5B-3TD				
	ZD402,403	00D2760461903	HZS6A-1TD				
	ZD501	00D2760459928	HZS5B-3TD				
	ZD502,503	00D2760461903	HZS6A-1TD				
	ZD601	00D2760459928	HZS5B-3TD				
	ZD602,603	00D2760461903	HZS6A-1TD				
	ZD701	00D2760459928	HZS5B-3TD				
	ZD702,703	00D2760461903	HZS6A-1TD				
RESISTORS GROUP							
	R106	00D2412379987	RD14B2E102JNBST				
	R110	00D2412379987	RD14B2E102JNBST				
	R115	00D2412378946	RD14B2E271JNBST				
	R116	00D2442671914	RS14B3D153JNBST(S)				
	R117,118	00D2412378946	RD14B2E271JNBST				
	R122,123	00D2412378920	RD14B2E221JNBST				
	R124,125	125050003002S	RK92=3F0R22JS				
	R206	00D2412379987	RD14B2E102JNBST				
	R210	00D2412379987	RD14B2E102JNBST				
	R215	00D2412378946	RD14B2E271JNBST				
	R216	00D2442671914	RS14B3D153JNBST(S)				
	R217,218	00D2412378946	RD14B2E271JNBST				
	R222,223	00D2412378920	RD14B2E221JNBST				
	R224,225	125050003002S	RK92=3F0R22JS				
	R306	00D2412379987	RD14B2E102JNBST				
	R310	00D2412379987	RD14B2E102JNBST				
	R315	00D2412378946	RD14B2E271JNBST				
	R316	00D2442671914	RS14B3D153JNBST(S)				
	R317,318	00D2412378946	RD14B2E271JNBST				
	R322,323	00D2412378920	RD14B2E221JNBST				
	R324,325	125050003002S	RK92=3F0R22JS				
	R406	00D2412379987	RD14B2E102JNBST				
	R410	00D2412379987	RD14B2E102JNBST				
	R415	00D2412378946	RD14B2E271JNBST				
	R416	00D2442671914	RS14B3D153JNBST(S)				
	R417,418	00D2412378946	RD14B2E271JNBST				
	R422,423	00D2412378920	RD14B2E221JNBST				
	R424,425	125050003002S	RK92=3F0R22JS				
	R506	00D2412379987	RD14B2E102JNBST				
	R510	00D2412379987	RD14B2E102JNBST				
	R515	00D2412378946	RD14B2E271JNBST				
	R516	00D2442671914	RS14B3D153JNBST(S)				
	R517,518	00D2412378946	RD14B2E271JNBST				
	R522,523	00D2412378920	RD14B2E221JNBST				
	R524,525	125050003002S	RK92=3F0R22JS				
	R606	00D2412379987	RD14B2E102JNBST				
	R610	00D2412379987	RD14B2E102JNBST				
	R615	00D2412378946	RD14B2E271JNBST				
	R616	00D2442671914	RS14B3D153JNBST(S)				
	R617,618	00D2412378946	RD14B2E271JNBST				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R622,623	00D2412378920	RD14B2E221JNBST				
	R624,625	125050003002S	RK92=3F0R22JS				
	R706	00D2412379987	RD14B2E102JNBST				
	R710	00D2412379987	RD14B2E102JNBST				
	R715	00D2412378946	RD14B2E271JNBST				
	R716	00D2442671914	RS14B3D153JNBST(S)				
	R717,718	00D2412378946	RD14B2E271JNBST				
	R722,723	00D2412378920	RD14B2E221JNBST				
	R724,725	125050003002S	RK92=3F0R22JS				
	VR101	00D9630366407	VR,SEMI CARBON EVN-DCAA03B 1KB		C541102315000S		
	VR201	00D9630366407	VR,SEMI CARBON EVN-DCAA03B 1KB		C541102315000S		
	VR301	00D9630366407	VR,SEMI CARBON EVN-DCAA03B 1KB		C541102315000S		
	VR401	00D9630366407	VR,SEMI CARBON EVN-DCAA03B 1KB		C541102315000S		
	VR501	00D9630366407	VR,SEMI CARBON EVN-DCAA03B 1KB		C541102315000S		
	VR601	00D9630366407	VR,SEMI CARBON EVN-DCAA03B 1KB		C541102315000S		
	VR701	00D9630366407	VR,SEMI CARBON EVN-DCAA03B 1KB		C541102315000S		
CAPACITORS GROUP							
	C101	00D2544722994	CE04W1H220MT(GR)	EU, EC, 990E3			
	C101	00D2544583955	CE04W1H220MT(ROB)	E2, E1C			
	C103	nsp	0.00022UF J M 50V				
	C104	00D2544722981	CE04W1H100MT(GR)	EU, EC, 990E3			
	C104	00D2544583942	CE04W1H100MT(ROB)	E2, E1C			
	C105	nsp	CK73B1H103KT (1608) +1608				
	C106	nsp	CK73B1H222KT +2125	EU, EC, 990E3			
	C107	nsp	CC73CH1H221JT +1608	EU, EC, 990E3			
	C108	00MDF15222351	0.0022UF,J,M,50V	E2, E1C			
	C109	00MDF15221351	0.00022UF J M 50V	E2, E1C			
	C110	00D2544723919	CE04W1H470MT(GR)	EU, EC, 990E3			
	C110	00D2544583971	CE04W1H470MT(ROB)	E2, E1C			
	C112	133050077400S	CQ93M2A221JT(AMZ)				
	C114	133050077400S	CQ93M2A221JT(AMZ)				
	C115	00MOF15471541	APSV 471J,470PF(TP) 100V PP				
	C119	00D2544802908	CE04W1J101MT(RA3)				
	C121	00D2544586949	CE04W2A100MT(RA3)				
	C123	00D2544586949	CE04W2A100MT(RA3)				
	C125	nsp	CK73B1E104KT +1608				
	C201	00D2544722994	CE04W1H220MT(GR)	EU, EC, 990E3			
	C201	00D2544583955	CE04W1H220MT(ROB)	E2, E1C			
	C203	nsp	0.00022UF J M 50V				
	C204	00D2544722981	CE04W1H100MT(GR)	EU, EC, 990E3			
	C204	00D2544583942	CE04W1H100MT(ROB)	E2, E1C			
	C205	nsp	CK73B1H103KT (1608) +1608				
	C206	nsp	CK73B1H222KT +2125	EU, EC, 990E3			
	C207	nsp	CC73CH1H221JT +1608	EU, EC, 990E3			
	C208	00MDF15222351	0.0022UF,J,M,50V	E2, E1C			
	C209	00MDF15221351	0.00022UF J M 50V	E2, E1C			
	C210	00D2544723919	CE04W1H470MT(GR)	EU, EC, 990E3			
	C210	00D2544583971	CE04W1H470MT(ROB)	E2, E1C			
	C212	133050077400S	CQ93M2A221JT(AMZ)				
	C214	133050077400S	CQ93M2A221JT(AMZ)				
	C215	00MOF15471541	APSV 471J,470PF(TP) 100V PP				
	C219	00D2544802908	CE04W1J101MT(RA3)				
	C221	00D2544586949	CE04W2A100MT(RA3)				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C223	00D2544586949	CE04W2A100MT(RA3)				
	C225	nsp	CK73B1E104KT +1608				
	C301	00D2544722994	CE04W1H220MT(GR)	EU, EC, 990E3			
	C301	00D2544583955	CE04W1H220MT(ROB)	E2, E1C			
	C303	nsp	0.00022UF J M 50V				
	C304	00D2544722981	CE04W1H100MT(GR)	EU, EC, 990E3			
	C304	00D2544583942	CE04W1H100MT(ROB)	E2, E1C			
	C305	nsp	CK73B1H103KT (1608) +1608				
	C306	nsp	CK73B1H222KT +2125	EU, EC, 990E3			
	C307	nsp	CC73CH1H221JT +1608	EU, EC, 990E3			
	C308	00MDF15222351	0.0022UF,J,M,50V	E2, E1C			
	C309	00MDF15221351	0.00022UF J M 50V	E2, E1C			
	C310	00D2544723919	CE04W1H470MT(GR)	EU, EC, 990E3			
	C310	00D2544583971	CE04W1H470MT(ROB)	E2, E1C			
	C312	133050077400S	CQ93M2A221JT(AMZ)				
	C314	133050077400S	CQ93M2A221JT(AMZ)				
	C315	00MOF15471541	APSV 471J,470PF(TP) 100V PP				
	C319	00D2544802908	CE04W1J101MT(RA3)				
	C321	00D2544586949	CE04W2A100MT(RA3)				
	C323	00D2544586949	CE04W2A100MT(RA3)				
	C325	nsp	CK73B1E104KT +1608				
	C401	00D2544722994	CE04W1H220MT(GR)	EU, EC, 990E3			
	C401	00D2544583955	CE04W1H220MT(ROB)	E2, E1C			
	C403	00MDF15221351	0.00022UF J M 50V				
	C404	00D2544722981	CE04W1H100MT(GR)	EU, EC, 990E3			
	C404	00D2544583942	CE04W1H100MT(ROB)	E2, E1C			
	C405	nsp	CK73B1H103KT (1608) +1608				
	C406	nsp	CK73B1H222KT +2125	EU, EC, 990E3			
	C407	nsp	CC73CH1H221JT +1608	EU, EC, 990E3			
	C408	00MDF15222351	0.0022UF,J,M,50V	E2, E1C			
	C409	00MDF15221351	0.00022UF J M 50V	E2, E1C			
	C410	00D2544723919	CE04W1H470MT(GR)	EU, EC, 990E3			
	C410	00D2544583971	CE04W1H470MT(ROB)	E2, E1C			
	C412	133050077400S	CQ93M2A221JT(AMZ)				
	C414	133050077400S	CQ93M2A221JT(AMZ)				
	C415	00MOF15471541	APSV 471J,470PF(TP) 100V PP				
	C419	00D2544802908	CE04W1J101MT(RA3)				
	C421	00D2544586949	CE04W2A100MT(RA3)				
	C423	00D2544586949	CE04W2A100MT(RA3)				
	C425	nsp	CK73B1E104KT +1608				
	C501	00D2544722994	CE04W1H220MT(GR)	EU, EC, 990E3			
	C501	00D2544583955	CE04W1H220MT(ROB)	E2, E1C			
	C503	00MDF15221351	0.00022UF J M 50V				
	C504	00D2544722981	CE04W1H100MT(GR)	EU, EC, 990E3			
	C504	00D2544583942	CE04W1H100MT(ROB)	E2, E1C			
	C505	nsp	CK73B1H103KT (1608) +1608				
	C506	nsp	CK73B1H222KT +2125	EU, EC, 990E3			
	C507	nsp	CC73CH1H221JT +1608	EU, EC, 990E3			
	C508	00MDF15222351	0.0022UF,J,M,50V	E2, E1C			
	C509	00MDF15221351	0.00022UF J M 50V	E2, E1C			
	C510	00D2544723919	CE04W1H470MT(GR)	EU, EC, 990E3			
	C510	00D2544583971	CE04W1H470MT(ROB)	E2, E1C			
	C512	133050077400S	CQ93M2A221JT(AMZ)				
	C514	133050077400S	CQ93M2A221JT(AMZ)				
	C515	00MOF15471541	APSV 471J,470PF(TP) 100V PP				
	C519	00D2544802908	CE04W1J101MT(RA3)				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C521	00D2544586949	CE04W2A100MT(RA3)				
	C523	00D2544586949	CE04W2A100MT(RA3)				
	C525	nsp	CK73B1E104KT +1608				
	C601	00D2544722994	CE04W1H220MT(GR)	EU, EC, 990E3			
	C601	00D2544583955	CE04W1H220MT(ROB)	E2, E1C			
	C603	00MDF15221351	0.00022UF J M 50V				
	C604	00D2544722981	CE04W1H100MT(GR)	EU, EC, 990E3			
	C604	00D2544583942	CE04W1H100MT(ROB)	E2, E1C			
	C605	nsp	CK73B1H103KT (1608) +1608				
	C606	nsp	CK73B1H222KT +2125	EU, EC, 990E3			
	C607	nsp	CC73CH1H221JT +1608	EU, EC, 990E3			
	C608	00MDF15222351	0.0022UF,J,M,50V	E2, E1C			
	C609	00MDF15221351	0.00022UF J M 50V	E2, E1C			
	C610	00D2544723919	CE04W1H470MT(GR)	EU, EC, 990E3			
	C610	00D2544583971	CE04W1H470MT(ROB)	E2, E1C			
	C612	133050077400S	CQ93M2A221JT(AMZ)				
	C614	133050077400S	CQ93M2A221JT(AMZ)				
	C615	00MOF15471541	APSV 471J,470PF(TP) 100V PP				
	C619	00D2544802908	CE04W1J101MT(RA3)				
	C621	00D2544586949	CE04W2A100MT(RA3)				
	C623	00D2544586949	CE04W2A100MT(RA3)				
	C625	nsp	CK73B1E104KT +1608				
	C701	00D2544722994	CE04W1H220MT(GR)	EU, EC, 990E3			
	C701	00D2544583955	CE04W1H220MT(ROB)	E2, E1C			
	C703	00MDF15221351	0.00022UF J M 50V				
	C704	00D2544722981	CE04W1H100MT(GR)	EU, EC, 990E3			
	C704	00D2544583942	CE04W1H100MT(ROB)	E2, E1C			
	C705	nsp	CK73B1H103KT (1608) +1608				
	C706	nsp	CK73B1H222KT +2125	EU, EC, 990E3			
	C707	nsp	CC73CH1H221JT +1608	EU, EC, 990E3			
	C708	00MDF15222351	0.0022UF,J,M,50V	E2, E1C			
	C709	00MDF15221351	0.00022UF J M 50V	E2, E1C			
	C710	00D2544723919	CE04W1H470MT(GR)	EU, EC, 990E3			
	C710	00D2544583971	CE04W1H470MT(ROB)	E2, E1C			
	C712	133050077400S	CQ93M2A221JT(AMZ)				
	C714	133050077400S	CQ93M2A221JT(AMZ)				
	C715	00MOF15471541	APSV 471J,470PF(TP) 100V PP				
	C719	00D2544802908	CE04W1J101MT(RA3)				
	C721	00D2544586949	CE04W2A100MT(RA3)				
	C723	00D2544586949	CE04W2A100MT(RA3)				
	C725	nsp	CK73B1E104KT +1608				
	CC401-403	00D2544722978	CE04W1H4R7MT(GR)	EU, EC, 990E3			
	CC401-403	00D2544583939	CE04W1H4R7MT(ROB)	E2, E1C			
	CC404	00D2544722978	CE04W1H4R7MT(GR)				
	CC405-408	00D2544722978	CE04W1H4R7MT(GR)	EU, EC, 990E3			
	CC405-408	00D2544583939	CE04W1H4R7MT(ROB)	E2, E1C			
	CC501,502	nsp	0.0022UF,J,M,50V				
	CC503,304	nsp	0.0022UF,J,M,50V	EU, EC, E2, E1C			
	CC514	00D2544722981	CE04W1H100MT(GR)	EU, EC, E2, E1C			
	CC516	00D2544722981	CE04W1H100MT(GR)	EU, EC, E2, E1C			
	CC518	00D2544722981	CE04W1H100MT(GR)				
	CC520	00D2544722981	CE04W1H100MT(GR)				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
OTHERS PARTS GROUP							
△	AS101	252310006506S	PRF18BB471QB5RB				
△	AS201	252310006506S	PRF18BB471QB5RB				
△	AS301	252310006506S	PRF18BB471QB5RB				
△	AS401	252310006506S	PRF18BB471QB5RB				
△	AS501	252310006506S	PRF18BB471QB5RB				
△	AS601	252310006506S	PRF18BB471QB5RB				
△	AS701	252310006506S	PRF18BB471QB5RB				
	CW181	nsp	18P CON.SOCKET TUC-P				
	CW803-807	nsp	10P CON.SOCKET TUC-P				
	CW811,812	nsp	11P CON.SOCKET TUC-P				
	CW871-877	nsp	JL CONNECTOR(F-E)				
	CX041	nsp	4P CON.BASE(TUC-P)				
	CX171	nsp	17P PIN HEADER(9120)				
	CX191	nsp	19P PIN HEADER(9120)				
	CX193	00D2050892020	19P FFC BASE (P=1)				
	CX232	00D2051100009	23P FFC BASE(P=1)				
	CX941	nsp	4P CON.BASE(TUC-P)				
	CY182	nsp	18P CON.BASE TUC-P				
	ST101,102	nsp	STYLE PIN				
	W101	nsp	M3 SCREW TERMINAL				
	W201	nsp	M3 SCREW TERMINAL				
	W301	nsp	M3 SCREW TERMINAL				
	W401	nsp	M3 SCREW TERMINAL				
	W501	nsp	M3 SCREW TERMINAL				
	W601	nsp	M3 SCREW TERMINAL				
	W701	nsp	M3 SCREW TERMINAL				
		219050002102S	DHCT-A3/C3(4310F)				

8U-110063 SPEAKER P.W.B. UNIT ASS'Y (for EU,EC,990E3 model)
8U-110063A SPEAKER P.W.B. UNIT ASS'Y (for E2,E1C model)

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC901	00D2622375904	IC, TC4094BF(TP1) +C				
	TR801	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR802	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR803	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR804	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR805	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR806	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR807	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR808	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR809	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR810	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR811	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR812	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR817	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR818	00D2710312905	KTA1504S-GR-RTK/P				
	TR916,917	00D2730464901	KTC3875S-GR-RTK/P				
	TR919,920	00D2730464901	KTC3875S-GR-RTK/P				
	TR921	00D2710312905	KTA1504S-GR-RTK/P				
	TR922,923	00D2730464901	KTC3875S-GR-RTK/P				
	TR924	00D2710312905	KTA1504S-GR-RTK/P				
	TR925	00D2730464901	KTC3875S-GR-RTK/P				
	TR926	00D2690193901	KRC104S-RTK/P (47K-47K)				
	TR941	00D2690193901	KRC104S-RTK/P (47K-47K)				
	D215-221	nsp	RM73B-0R0KT +2125				
	D801-806	00D2760401905	1SS133T77 (TAPE)				
	D809	00D2760401905	1SS133T77 (TAPE)				
	D901	00D2760855001	D3SB20-7103				
	D904	00D2760855001	D3SB20-7103				
RESISTORS GROUP							
	R801-814	00D2442671901	RS14B3D100JNBST(S)				
	R815-818	00D2442052960	RS14B3A221JNBST(S)				
	R981	00D2442671930	RS14B3D200JNBST(S)				
CAPACITORS GROUP							
	C801-807	00MDF15104350	0.1UF,J,N,50V				
	C808-816	nsp	CK73U2J2E222JT(2125)				
	C817-825	nsp	0.047UF,J,N,50V				
	C835	nsp	CK73B1H102KT +1608				
	C837	nsp	CK73B1H102KT +1608				
	C839	nsp	CK73B1H102KT +1608				
	C841	nsp	CK73B1H102KT +1608				
	C843	nsp	CK73B1H102KT +1608				
	C845	nsp	CK73B1H102KT +1608				
	C847	nsp	CK73B1H102KT +1608				
	C849	nsp	CK73B1H102KT +1608				
	C851	nsp	CK73B1H102KT +1608				
	C853,854	00D2544723922	CE04W1H101MT(GR)				
	C902,903	00D2546276008	CE68W==123M(DL)	EU, EC, 990E3			

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C902,903	134050062005D	CE68W==153M(LAO)	E2, E1C			
	C907	00D2544722949	CE04W1H010MT(GR)				
	C912	nsp	CF93A2E104KT				
	C915	nsp	CK73B1H102KT +1608				
	C922,923	nsp	CK73B1E104KT +1608				
	C924	nsp	RS14B3D200JNBST(S)				
	C925,926	nsp	CK73B0J475KT(P) +1608				
	C928	00D2544718940	CE04W1C101MT(GR)				
	C929	nsp	CK73B1E104KT +1608				
	C930	00D2544716926	CE04W0J331MT(GR)				
	C931	nsp	CK73B1E104KT +1608				
	C932	00D2544716926	CE04W0J331MT(GR)				
	C933	00D2544722981	CE04W1H100MT(GR)				
OTHERS PARTS GROUP							
	CW064	nsp	6P CON SOCKET(TUC-P)				
	CW092	nsp	9P CON PLUG TWG-P(LONG)				
	CW231	nsp	23P CON PLUG TWG-P(LONG)				
	CW851	nsp	15P CON SOCKET TUC-P				
	CW891	nsp	9P CON SOCKET TUC-P				
	CX081	nsp	8P CON BASE(TUC-P)				
	CX091	nsp	9P VH CONNECTOR BASE				
	CX660	nsp	6P NH CONNECTOR BASE				
	CX680	nsp	8P NH CONNECTOR BASE				
	CX803-807	nsp	10P CON BASE TUC-P				
	CX811,812	nsp	11P CON BASE TUC-P				
	CX851	nsp	15P CON BASE TUC-P				
	CX871-877	nsp	JL CONNECTOR(BT-E)				
	CX891	nsp	9P CON BASE TUC-P				
	CX904	nsp	3P NH CONNECTOR BASE				
	CY065	nsp	6P CON BASE(TUC-P)				
△	F901,902	00D2061086032	FUSE 15A (UL/CSA/J)	EU, EC, 990E3			
△	F901,902	652050008004S	L=30mm 250V TLC15AN4	E2, E1C			
	FF901,902	nsp	FUSE HOLDER				
	FH901,902	nsp	FUSE HOLDER				
	JK801	963646001690S	8P SPEAKER TERMINAL		G614108V1010MS		
	JK802	963646001690S	8P SPEAKER TERMINAL		G614108V1010MS		
	JK803	00D9630158608	2P SPEAKER TERMINAL		G611201A0200YS		
	L801-807	00D2350191007	INDUCTOR(1MH)				
	RL801-804	682010015012S	RELAY(G5PA-28-MC DC24)				
	RL806	00D2140208003	RELAY(NA24W-K)				
	RL807	682010015012S	RELAY(G5PA-28-MC DC24)				
	RL901,902	682010013009S	RELAY(FTR-H1CA24)				
	W201-204	nsp	M3 SCREW TERMINAL				
	W806	nsp	1P L=250mm UL1430 AWG18				
	W807	nsp	1P L=250mm UL1430 AWG18				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	W820	nsp	1P SIN CORD ASSY(L=195mm)				
	W822	nsp	1P SIN CORD ASSY(L=75mm)				
	W901	nsp	130mm UL1430 AWG24				
		nsp	FUSE LABEL(T15AL/250V)	E2, E1C			

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8U-210081 A.AUDIO/VIDEO P.W.B. UNIT ASS'Y (for EU,EC model)
8U-210081A A.AUDIO/VIDEO P.W.B. UNIT ASS'Y (for E2,E1C model)
8U-210081B A.AUDIO/VIDEO P.W.B. UNIT ASS'Y (for 990E3 model)

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC101	00D2623756904	LA73053-TLM-E				
	IC102,103	00D2623445901	TC4051BFT				
	IC104	00D2623446900	TC4052BFT				
	IC105-107	00D2623445901	TC4051BFT				
	IC108	00D2623446900	TC4052BFT				
	IC109,110	00D2623445901	TC4051BFT				
	IC111-116	232810005504S	BD7628F-E2				
	IC301	234810014504S	MC14094BDTR2G				
	IC305	00D2623755905	LA73062V-TLM-E				
	IC402,403	262010004005S	TORX147L(25M,F,T,J)				
	IC404	263010017004S	TOTX147L(25M,F,T,J)				
	IC501	00D2623551002	NJW1321FP1				
	IC503,504	00D2631225906	NJM2581M-TE1				
	IC601-603	00D2631289900	AZ4580MTR-E1				
	IC605	00D2630896909	NJM2068MD-TE1 +C				
	IC606	00D2631289900	AZ4580MTR-E1				
	IC613-615	00D2631289900	AZ4580MTR-E1	EU, EC, E2, E1C			
	IC616	235810022607S	APPA350 (NJW1299)				
	IC617	00D2623727904	NJW1194V-TE1				
	IC618	00D2631289900	AZ4580MTR-E1				
	IC623-625	00D2631289900	AZ4580MTR-E1	EU, EC, E2, E1C			
	IC627	00D2623727904	NJW1194V-TE1	EU, EC, E2, E1C			
	TR101-103	00D2710312905	KTA1504S-GR-RTK/P				
	TR104-109	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR501	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR502	00D2690144905	DTC114YKA-T146 +C				
	TR503	00D2710312905	KTA1504S-GR-RTK/P				
	TR601-606	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR607	00D2690184907	KRA102S-RTK/P (10K-10K)	EU, EC, E2, E1C			
	TR608-617	00D2730460905	KTC2875-B-RTK/P				
	TR618,619	00D2730460905	KTC2875-B-RTK/P	EU, EC, E2, E1C			
	TR620-629	00D2730460905	KTC2875-B-RTK/P				
	TR630,631	00D2730460905	KTC2875-B-RTK/P	EU, EC, E2, E1C			
	TR632	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR633	00D2690184907	KRA102S-RTK/P (10K-10K)	EU, EC, E2, E1C			
	TR634-637	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR639	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR640	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR641	00D2690192902	KRC102S-RTK/P (10K-10K)	EU, EC, E2, E1C			
	TR642-645	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR647	00D2690192902	KRC102S-RTK/P (10K-10K)				
	D101-106	00D2760794900	KDS160-RTK/P				
	D508,509	00D2760794900	KDS160-RTK/P				
	D801-803	00D2760704903	1SR35-400A(T93X)				
	D981	251310004507S	CG0603MLC-12LE				
	D983,984	251310004507S	CG0603MLC-12LE				
	ZD801	00D2760683943	UDZS3.6B-TE17				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
RESISTORS GROUP							
	R101-112	00D2472019928	RM73B-750FT				
	R120-125	00D2472019928	RM73B-750FT				
	R147-152	nsp	RM73B-151FT_1608				
	R178-180	00D2472019928	RM73B-750FT				
	R332-334	00D2472019928	RM73B-750FT				
	R501-509	00D2472019928	RM73B-750FT				
	R519-524	nsp	RM73B-151FT_1608				
	R555	nsp	RM73B-161FT_1608				
	R556	nsp	RM73B-151FT_1608				
	R557	nsp	RM73B-161FT_1608				
	R558	nsp	RM73B-151FT_1608				
	R559	nsp	RM73B-161FT_1608				
	R560	nsp	RM73B-151FT_1608				
	R561	nsp	RM73B-161FT_1608				
	R562	nsp	RM73B-151FT_1608				
	R565	nsp	RM73B-161FT_1608				
	R566	nsp	RM73B-151FT_1608				
	R569	nsp	RM73B-161FT_1608				
	R570	nsp	RM73B-151FT_1608				
	RR117-119	nsp	RM73B-681FT +1608				
	RR123-125	00D2472025909	RM73B-821FT				
CAPACITORS GROUP							
	C101-109	nsp	CK73B1H103KT (1608) +1608				
	C114,115	00D2544717925	CE04W1A101MT(GR)				
	C116	nsp	CK73B1H103KT (1608) +1608				
	C117-122	00D2544718924	CE04W1C330MT(GR)				
	C123-140	nsp	CK73B1H103KT (1608) +1608				
	C141-146	00D2544717925	CE04W1A101MT(GR)				
	C154-161	nsp	CK73B1H103KT (1608) +1608				
	C162-165	00D2544718924	CE04W1C330MT(GR)				
	C166-168	nsp	CK73B1E473KT +1608				
	C169-171	nsp	CK73B1E104KT +1608				
	C172-174	nsp	CK73B1E473KT +1608				
	C176	nsp	CK73B1A105KT +1608				
	C178	nsp	CK73B1A105KT +1608				
	C180	nsp	CK73B1A105KT +1608				
	C181-183	nsp	CK73B1E473KT +1608				
	C303	00D2544718924	CE04W1C330MT(GR)				
	C304	nsp	CK73B1H103KT (1608) +1608				
	C306	nsp	CK73B1H103KT (1608) +1608				
	C310	nsp	CK73B1H103KT (1608) +1608				
	C317,318	nsp	CK73B1H103KT (1608) +1608				
	C322	00D2544716926	CE04W0J331MT(GR)				
	C323	00D2544716942	CE04W0J102MT(GR)				
	C324	00D2544716926	CE04W0J331MT(GR)				
	C325	00D2544718937	CE04W1C470MT(GR)				
	C326	nsp	CK73B1E104KT +1608				
	C327,328	00D2544717925	CE04W1A101MT(GR)				
	C332	nsp	CK73B1E104KT +1608				
	C333	00D2544717925	CE04W1A101MT(GR)				
	C334-338	nsp	CK73B1E104KT +1608				
	C415	nsp	CK73B1E104KT +1608				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C417	nsp	CK73B1E104KT +1608				
	C419	nsp	CK73B1E104KT +1608				
	C422	00D2544717925	CE04W1A101MT(GR)				
	C423-428	nsp	CC73CH1H102JT +1608				
	C429-434	nsp	CC73CH1H101JT +1608				
	C501	00D2544722981	CE04W1H100MT(GR)				
	C503	00D2544722981	CE04W1H100MT(GR)				
	C505	00D2544722981	CE04W1H100MT(GR)				
	C507	00D2544722981	CE04W1H100MT(GR)				
	C509	00D2544722981	CE04W1H100MT(GR)				
	C511	00D2544722981	CE04W1H100MT(GR)				
	C516-518	00D2544722981	CE04W1H100MT(GR)				
	C519,520	00D2544718940	CE04W1C101MT(GR)				
	C521-526	nsp	CK73B1E104KT +1608				
	C528	nsp	CK73B1E104KT +1608				
	C529	00D2544722981	CE04W1H100MT(GR)				
	C530	nsp	CK73B1E104KT +1608				
	C532	00D2544722981	CE04W1H100MT(GR)				
	C535	00D2544722981	CE04W1H100MT(GR)				
	C539	00D2544722949	CE04W1H010MT(GR)				
	C540-545	00D2544717925	CE04W1A101MT(GR)				
	C552	nsp	CK73B1H103KT (1608) +1608				
	C553	00D2544718924	CE04W1C330MT(GR)				
	C554	nsp	CK73B1H103KT (1608) +1608				
	C555	00D2544718924	CE04W1C330MT(GR)				
	C556-559	nsp	CK73B1H103KT (1608) +1608				
	C560	nsp	CK73B1E473KT +1608				
	C561	nsp	CK73B1A105KT +1608				
	C563	nsp	CK73B1E473KT +1608				
	C565	nsp	CC73CH1H221JT +1608				
	C566	nsp	CK73B1H103KT (1608) +1608				
	C567	00D2544718924	CE04W1C330MT(GR)				
	C568	nsp	CK73B1H103KT (1608) +1608				
	C569	00D2544718924	CE04W1C330MT(GR)				
	C570-574	nsp	CK73B1H103KT (1608) +1608				
	C575	nsp	CK73B1E473KT +1608				
	C601-604	nsp	CK73B1H103KT (1608) +1608				
	C609-616	nsp	RM73B-0R0KT +1608				
	C618-639	nsp	CC73CH1H331JT +1608				
	C640-643	nsp	CC73CH1H101JT +1608				
	C644,645	nsp	CC73CH1H221JT +1608				
	C646-673	00D2544722981	CE04W1H100MT(GR)				
	C674,675	00D2544536931	CE04W1A221MT SMG/RE3				
	C684,685	nsp	CC73CH1H101JT +1608				
	C700,701	nsp	0.022UF,J,M,50V				
	C702,703	nsp	0.0068UF,J,M,50V				
	C704,705	00D2544722981	CE04W1H100MT(GR)				
	C707	00D2544722981	CE04W1H100MT(GR)				
	C712,713	00D2544722981	CE04W1H100MT(GR)				
	C730,731	00D2544722981	CE04W1H100MT(GR)				
	C732,733	nsp	CK73B1H103KT +2125	EU, EC, E2, E1C			
	C734	00D2544723922	CE04W1H101MT(GR)				
	C737,738	nsp	CK73B1H103KT +2125	EU, EC, E2, E1C			
	C739,740	00D2544723922	CE04W1H101MT(GR)				
	C739,740	00D2544580712	CE04W1H101MC(ROB)				
	C741-745	00D2544723922	CE04W1H101MT(GR)				

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	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C746,747	00D2544722981	CE04W1H100MT(GR)	EU, EC, E2, E1C			
	C748-751	00D2544722981	CE04W1H100MT(GR)				△
	C752,753	nsp	CC73CH1H680JT +1608	EU, EC, E2, E1C			△
	C754	00D2544723922	CE04W1H101MT(GR)				△
	C755,756	nsp	CC73CH1H101JT +1608	EU, EC, E2, E1C			△
	C757,758	00D2544722981	CE04W1H100MT(GR)				△
	C759,760	00D2544722981	CE04W1H100MT(GR)	EU, EC, E2, E1C			△
	C761,762	00D2544723922	CE04W1H101MT(GR)	EU, EC, 990E3			△
	C761,762	00D2544580712	CE04W1H101MC(ROB)	E2, E1C			△
	C764-767	00D2544722981	CE04W1H100MT(GR)				△
	C770,771	00D2544718924	CE04W1C330MT(GR)				
	C772,773	00D2544722981	CE04W1H100MT(GR)				
	C774	nsp	CC73CH1H332JT +2125				
	C775	nsp	CK73B1H104KT +2125				
	C776,777	00D2544722978	CE04W1H4R7MT(GR)				
	C778	nsp	CK73B1H104KT +2125				
	C779	nsp	CC73CH1H332JT +2125				
	C780	nsp	CC73CH1H121JT +1608				
	C781	00D2544723922	CE04W1H101MT(GR)				
	C782-787	00D2544722907	CE04W1H0R1MT(GR)				
	C788	00D2544722907	CE04W1H0R1MT(GR)	EU, EC, E2, E1C			
	C789	00D2544722994	CE04W1H220MT(GR)				△
	C790,791	00D2544722994	CE04W1H220MT(GR)	EU, EC, E2, E1C			△
	C792-810	00D2544722994	CE04W1H220MT(GR)				△
	C811,812	00D2544722994	CE04W1H220MT(GR)	EU, EC, E2, E1C			△
	C813,814	nsp	CC73CH1H331JT +1608				
	C816-823	nsp	CC73CH1H331JT +1608				△
	C824,825	nsp	CC73CH1H331JT +1608	EU, EC, E2, E1C			△
	C836	00D2544722907	CE04W1H0R1MT(GR)				△
	C901,902	nsp	CK73B1H103KT (1608) +1608	EU, EC, E2, E1C			△
	C903-912	nsp	CK73B1H103KT (1608) +1608				
	C917-920	nsp	CK73B1H103KT (1608) +1608				
	C921	nsp	CK73B1A105KT +1608				
	C984	nsp	CK73B1E104KT +1608				
	C985	00D2544645903	CE67C0J221MT(MVA) +REF				
	CC101,102	nsp	CK73B1E104KT +1608				
	CC601-604	00D2544722981	CE04W1H100MT(GR)				
	CC609-612	00D2544722981	CE04W1H100MT(GR)				
	CC613-616	nsp	CK73B1A105KT +1608				
	CC732,733	nsp	CK73B1H103KT +2125	EU, EC, E2, E1C			△
	CC737,738	nsp	CK73B1H103KT +2125	EU, EC, E2, E1C			△
	CC746,747	00D2544722981	CE04W1H100MT(GR)	EU, EC, E2, E1C			△
	CC750,751	00D2544722981	CE04W1H100MT(GR)	EU, EC, E2, E1C			△
	CC752,753	nsp	CC73CH1H680JT +1608	EU, EC, E2, E1C			△
	CC755,756	nsp	CC73CH1H101JT +1608	EU, EC, E2, E1C			△
	CC759,760	00D2544722981	CE04W1H100MT(GR)	EU, EC, E2, E1C			△
	CC764-767	00D2544722981	CE04W1H100MT(GR)	EU, EC, E2, E1C			△
	CC770,771	00D2544718924	CE04W1C330MT(GR)	EU, EC, E2, E1C			△
	CC772	00D2544722981	CE04W1H100MT(GR)	EU, EC, E2, E1C			△
	CC774	nsp	CC73CH1H332JT +2125	EU, EC, E2, E1C			△
	CC775	nsp	CK73B1H104KT +2125	EU, EC, E2, E1C			△
	CC776,777	00D2544722978	CE04W1H4R7MT(GR)	EU, EC, E2, E1C			△
	CC778	nsp	CK73B1H104KT +2125	EU, EC, E2, E1C			△
	CC779	nsp	CC73CH1H332JT +2125	EU, EC, E2, E1C			△

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
OTHERS PARTS GROUP							
	AS601 CW131,132	nsp nsp	SHIELD PLATE 13P SOCKET(9120)				
	CX052 CX071 CX111 CX121	nsp 00D2051343950 00D2051377007 00D2051329042	20010WR-05A00 7P FFC BASE(9610SC) 11P FFC BASE(9610SB) 12P FFC BASE(9610SB)		L101200100520S		
	CX141 CX151	00D2051329055 00D2051006051	14P FFC BASE(9610SB) 15P FFC BASE(P=1)				
	CY041 CY073	nsp nsp	4P CON.SOCKET(TUC-P) 7P CON PLUG TWG-P				
	CY152 CY171 CY191 CY192 CY942	nsp nsp nsp nsp nsp	15P SOCKET(9120) 17P SOCKT(9120) 19P SOCKT(9120) 19P CON.PLUG(TWG-P) 4P CON.SOCKET(TUC-P)				
	FB101,102 FB401-405	nsp nsp	RM73B-0R0KT +2125 RM73B-0R0KT +1608				
	JK101	963643005090S	TERMINAL RCA 1PIN		G600107AY000YS		
	JK102-104 JK501,502	00D9630218108 963643005350S	TERMINAL 3PINRCA&DIN30401 RCA-628B(NI)-08(GN,B,R,GN,B,R)		G60630401000YS G603628NI080YS		
	JK601 JK602 JK604	00D9630387505 00D9630132103 00D9630132103	TERMINAL RCA WH_WH_RD_BK TERMINAL RCA 4PIN TERMINAL RCA 4PIN		G602405B5500YS G602405B0400YS G602405B0400YS		
	JK605 JK606 JK607 JK608 JK609	00D9630132103 00D9630132103 00D9630132103 00D9630387505 00D9630132103	TERMINAL RCA 4PIN TERMINAL RCA 4PIN TERMINAL RCA 4PIN TERMINAL RCA WH_WH_RD_BK TERMINAL RCA 4PIN		G602405B0400YS G602405B0400YS G602405B0400YS G602405B5500YS G602405B0400YS		
	JK610 JK610 JK699 JK981	00D9630132103 90M-YT004640R 00D9630132103 00D2051381006	TERMINAL RCA 4PIN TERMINAL RCA 2PIN TERMINAL RCA 4PIN USB CONNECTOR	EU, EC, E2, E1C 990E3	G602405B0400YS G601207AE020YS G602405B0400YS		
	L601,602	00D2359003002 nsp	FTZ CHOKE COIL USB BRACKET	E2, E1C			

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8U-210082 MAIN CPU P.W.B. UNIT ASS'Y (for EU,EC model)

8U-210082A MAIN CPU P.W.B. UNIT ASS'Y (for E2 model)

8U-210082B MAIN CPU P.W.B. UNIT ASS'Y (for 990E3 model)

8U-210082C MAIN CPU P.W.B. UNIT ASS'Y (for E1C model)

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC101	236810072506S	ICL3232CVZ-T				
	IC102	00D2623360905	LC72722PM-TLM	E2			
	IC103	231310009508S	PQ033DNA1ZPH				
	IC104	00D2631286903	PQ120DNA1ZPH	E2			
	IC105,106	00D2631286903	PQ120DNA1ZPH				
	IC108	234810015507S	BU4248F-TR				
	IC109	00D2631289900	AZ4580MTR-E1				
	IC110	00D2631289900	AZ4580MTR-E1	E2, E1C			
	IC111	00D2630706905	NJM2903M-TE1 +C				
	IC112	00MHC007805K0	TC74VHCT125AFT QUAD BUS BUFFER				
	IC113	231810017528S	TK7333WTL-G				
	IC114	00MHC007805K0	TC74VHCT125AFT QUAD BUS BUFFER				
	IC507,508	00D2623437906	TC74VHCT244AFT				
	IC701	8R2431004300D	MAIN CPU SUB ASSY (R5F64169DFD)	EU, EC, 990E3, E1C			
	IC701	8R2431004301D	MAIN CPU SUB ASSY (R5F64169DFD)	E2			
	IC702	246810026500S	R1EX24256ASAS0A				
	TR101	00D2690191903	KRA104S-RTK/P (47K-47K)				
	TR102,103	00D2730464901	KTC3875S-GR-RTK/P				
	TR104	00D2690191903	KRA104S-RTK/P (47K-47K)				
	TR105,106	00D2690066902	DTC323TKT96	E2			
	TR107	00D2690192902	KRC102S-RTK/P (10K-10K)	E2			
	TR108	00D2690086908	DTA114TKT96	E2			
	TR110	00D2690192902	KRC102S-RTK/P (10K-10K)	E2			
	TR111	00D2710326904	2SA1954(B)-TE85L				
	TR112	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR116,117	00D2730464901	KTC3875S-GR-RTK/P				
	TR124	00D2710326904	2SA1954(B)-TE85L				
	TR125,126	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR127	00D2710326904	2SA1954(B)-TE85L				
	TR128	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR129	00D2710326904	2SA1954(B)-TE85L				
	TR130	00D2690191903	KRA104S-RTK/P (47K-47K)				
	TR131	00D2730464901	KTC3875S-GR-RTK/P				
	TR132	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR133	00D2690193901	KRC104S-RTK/P (47K-47K)				
	TR134,135	00D2730464901	KTC3875S-GR-RTK/P				
	TR136	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR139,140	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR141	00D2690191903	KRA104S-RTK/P (47K-47K)				
	TR704	00D2690193901	KRC104S-RTK/P (47K-47K)				
	TR705-707	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR712	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR713	00D2690192902	KRC102S-RTK/P (10K-10K)				
	D106	00D2760794900	KDS160-RTK/P				
	D108,109	00D2760684900	RB051L-40TE25 +C				
	D113	nsp	RM73B--0R0KT +2125				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
CAPACITORS GROUP							
	C101	nsp	CK73B1H102KT +1005				
	C102	nsp	CK73B1H102KT +1005	E2			
	C104	00D2544572908	CE67C1C100MT(MV-B)	E2			
	C110	nsp	CC73CH1H101JT	E2			
	C111	nsp	CK73B1H102KT +1005				
	C113,114	nsp	CK73B1H102KT +1005	E2			
	C115	nsp	CK73B0J475KT(P) +1608				
	C116	nsp	CK73B1A104KT +1005				
	C117-119	nsp	CK73B1H102KT +1005	E2			
	C121	nsp	CK73B0J475KT(P) +1608	E2			
	C122	nsp	CK73B1A104KT +1005				
	C125-127	nsp	CK73B1A104KT +1005				
	C128,129	00D2544572908	CE67C1C100MT(MV-B)	E2, E1C			
	C130	nsp	CK73B1A104KT +1005				
	C135	nsp	CC73CH1H331JT	E2			
	C136	nsp	CK73B1A104KT +1005	E2			
	C137,138	00D2544572908	CE67C1C100MT(MV-B)	E2, E1C			
	C139,140	nsp	CK73B0J475KT(P) +1608	E2			
	C143	nsp	CC73CH1H561JT	E2			
	C144	nsp	CK73B0J475KT(P) +1608				
	C146,147	nsp	CK73B0J475KT(P) +1608				
	C148,149	nsp	CC73CH1H220JT	E2			
	C156	nsp	CK73B0J475KT(P) +1608				
	C158-161	nsp	CK73B1A104KT +1005				
	C162	nsp	CK73B1A105KT +1608				
	C163	nsp	CK73B0J475KT(P) +1608				
	C164,165	00D2544572908	CE67C1C100MT(MV-B) +REF				
	C168,169	00D2544572908	CE67C1C100MT(MV-B) +REF				
	C174	nsp	CK73B0J475KT(P) +1608				
	C176	nsp	CK73B0J475KT(P) +1608				
	C177	00D2544464919	CE67C0J471MT +REF				
	C178,179	nsp	CC73CH1H471JT +1608				
	C183	nsp	CK73B1H102KT +1005				
	C185	nsp	CK73B0J475KT(P) +1608	E2			
	C188,189	nsp	CK73B0J475KT(P) +1608				
	C190	nsp	CK73B0J475KT(P) +1608	E2			
	C191-194	nsp	CK73B1E104KT +1608				
	C195	nsp	CK73B1H104KT +1608				
	C196	nsp	CK73B1A104KT +1005				
	C197	nsp	CK73B0J475KT(P) +1608				
	C198	nsp	CK73B1A104KT +1005				
	C199	nsp	CK73B0J475KT(P) +1608				
	C200	nsp	CK73B1A104KT +1005				
	C201	nsp	CK73B1H102KT +1005				
	C203	nsp	CK73B1H153KT +1608				
	C204	nsp	CK73B1A104KT +1005				
	C206	nsp	CK73B1H102KT +1005				
	C510	nsp	CK73B1A105KT +1608				
	C511,512	nsp	CK73B1A104KT +1005				
	C704,705	nsp	CK73B0J475KT(P) +1608				
	C706,707	nsp	CK73B1H102KT +1608				
	C712	nsp	CK73B0J475KT(P) +1608				
	C713,714	nsp	CC73CH1H150JT +1608				
	C715	nsp	CK73B1H102KT +1005				
	C716	nsp	CK73B1A104KT +1005				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C718	nsp	CK73B1H102KT +1005				
	C719	nsp	CK73B1A104KT +1005				
OTHERS PARTS GROUP							
	CX068	nsp	20010WR-06A00		L101200100620S		
	CX104	nsp	10P PIN HEADER(9120)				
	CX122	nsp	12P PIN HEADER(9120)				
	CX123	00D2051343905	11P FFC BASE(9610SCA)				
	CX131,132	nsp	13P PIN HEADER(9120)				
	CX152	nsp	15P PIN HEADER(9120)				
	CX154,155	nsp	15P JE CON.BASE				
	CX156	00D2050736076	15P FFC CON.BASE	E2			
	CX301,302	nsp	30P CONN.BASE				
	CY134	nsp	3P CONN.BASE(KR-PH)	E1C			
	CY251	00D2051316000	25P FFC BASE(9610S)Y				
	CY271	00D2051329000	27P FFC BASE(9610SB)				
	FB101	00D2350158901	CHIP BEADS(18PG121) +1608				
	FB202-204	nsp	RM73B-0R0KT +1608				
	FB206	nsp	RM73B-0R0KT +1608				
	FB208-210	nsp	RM73B-0R0KT +1608				
	FB212	nsp	RM73B-0R0KT +1608				
	FB214-216	nsp	RM73B-0R0KT +1608				
	FB219-222	nsp	RM73B-0R0KT +1608				
	FB224-232	nsp	RM73B-0R0KT +1608				
	X101	141010001208S	HC-49(4.332MHZ)	E2			
	X701	141810019508S	TXC 7A(16MHZ)				

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8U-310039 DIGITAL P.W.B. UNIT ASS'Y (for EU,EC model)
8U-310039A DIGITAL P.W.B. UNIT ASS'Y (for E2,E1C model)
8U-310039B DIGITAL P.W.B. UNIT ASS'Y (for 990E3 model)

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC101	236810062608S	LC89058W-E				
	IC104	236810062608S	LC89058W-E				
	IC105	236810062608S	LC89058W-E	EU, EC, E2, E1C			
	IC115	00D2623077900	TC74VHCU04FT +REF				
	IC116	00D2623412905	TC74VHC14FT				
	IC151	00D2623590005	EPM240T100C5N				
	IC153	00D2623436907	TC74VHC244FT				
	IC154	236810074502S	CS2100**-CZZR				
	IC155	nsp	EN5322QI-T				
	IC202	nsp	EN5311QI-T				
	IC253	246810009604S	W9864G2GH-6				
	IC254	nsp	ADSP21367KSWZ2A1165				
	IC255	8R2481004000D	DSP ROM SUB ASSY (EN29LV160BB-70TIP)				
	IC301	00D2623501900	PCM1803DBR				
	IC302	00D2631047906	NJM2115M-TE1 +C				
	IC303	231810017528S	TK73333WTL-G				
	IC304	236810073509S	AK4358VQ				
	IC310-314	00D2631289900	AZ4580MTR-E1	EU, EC, 990E3			
	IC310-314	00D2623555901	SA5532ADR	E2, E1C			
	IC351	236810070500S	AK4424ET				
	IC352	236810070500S	AK4424ET	EU, EC, E2, E1C			
	IC401	236810057606S	ADV3002BSTZ				
	IC402	nsp	EN5335QI-T				
	IC403	nsp	EN5322QI-T				
	IC451	652850007508S	PRCP-USMF150	NOTE : When update Firmware, please confirm a last version in SDI. Use the service board after updating it.			
	IC457	00D2623711004	SAA7121H				
	IC459	231310009508S	PQ033DNA1ZPH				
	IC501	nsp	ADV7840BBCZ-5				
	IC502	247810004602S	K4S641632N-LC60				
	IC504	231810017504S	TK73318WTL-G				
	IC601	141810027509S	TXC 8W(48MHZ)				
	IC602	nsp	XC3S400A-4FGG320C				
	IC603	246810010604D	IS42S32200E-6TL				
	IC604	248810026506S	M25P40-VMN6PB(****)				
	IC605-607	00MHC007805K0	TC74VHCT125AFT QUAD BUS BUFFER				
	IC608	231810071508S	PQ012ENB1ZPH				
	IC701	236810059008S	ADV7510BSTZ-225				
	IC702	00D2623436907	TC74VHC244FT				
	IC801	00D2622557900	SN74LV14APW-EL2 +REF				
	IC802	nsp	ABT2010				
	IC803,804	231810069505S	A0Z1021AI				
	IC805	nsp	EN5311QI-T				
	IC806	141810003503S	FCXO-05 (30.00MHz)				
	IC851	00D2623617904	LP2996MX				
	IC852,853	nsp	K4T51163QG-HCE7				
	IC901	8R2431004400D	SUB CPU SUB ASSY (R5F3650TNFB)				
	IC903	00D2623424906	LTC1694CS5				
	IC905	00D2623437906	TC74VHCT244AFT				
	IC951	231810017504S	TK73318WTL-G				
	IC952	236810058609S	ADV7340BSTZ-3				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	IC955	231310009508S	PQ033DNA1ZPH				
	IC957	231310009508S	PQ033DNA1ZPH				
	TR122	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR253	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR254	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR315,316	00D2730460905	KTC2875-B-RTK/P				
	TR401-403	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR404-407	00D2690193901	KRC104S-RTK/P (47K-47K)				
	TR408	00D2757001907	FDC608PZ				
	TR409,410	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR453	00D2757001907	FDC608PZ				
	TR462	00D2690193901	KRC104S-RTK/P (47K-47K)				
	TR463	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR502,503	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR505-507	00D2690193901	KRC104S-RTK/P (47K-47K)				
	TR601	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR602	00D2757001907	FDC608PZ				
	TR603	00D2690193901	KRC104S-RTK/P (47K-47K)				
	TR604	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR702	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR705	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR801	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR802	00D2730464901	KTC3875S-GR-RTK/P				
	TR803	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR804	00D2730464901	KTC3875S-GR-RTK/P				
	TR805	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR806	00D2730464901	KTC3875S-GR-RTK/P				
	TR807	00D2690193901	KRC104S-RTK/P (47K-47K)				
	TR810	00D2750110905	HN1K02FU-TE85L				
	TR902	00D2730384900	2SC2412KT96(S) +C				
	TR903	00D2740195901	2SD2114KT196 +C				
	TR904	00D2690193901	KRC104S-RTK/P (47K-47K)				
	TR905	00D2730384900	2SC2412KT96(S) +C				
	TR906	00D2730464901	KTC3875S-GR-RTK/P				
	TR908	00D2710326904	2SA1954(B)-TE85L				
	TR909	00D2690184907	KRA102S-RTK/P (10K-10K)				
	TR910	00D2690192902	KRC102S-RTK/P (10K-10K)				
	TR951-955	00D2710293901	2SA1022-B +C				
	TR956	00D2750110905	HN1K02FU-TE85L				
	D404-436	251310004507S	CG0603MLC-12LE				
	D440	00D2760750902	RB521S-30TE61 +REF				
	D502,503	251310004507S	CG0603MLC-12LE				
	D505,506	251310004507S	CG0603MLC-12LE				
	D508,509	251310004507S	CG0603MLC-12LE				
	D511,512	00D2760833900	ESD PROTECTOR(6802)				
	D515,516	00D2760833900	ESD PROTECTOR(6802)				
	D518,519	00D2760833900	ESD PROTECTOR(6802)				
	D521,522	00D2760833900	ESD PROTECTOR(6802)				
	D524,525	00D2760833900	ESD PROTECTOR(6802)				
	D527,528	00D2760833900	ESD PROTECTOR(6802)				
	D530,531	00D2760833900	ESD PROTECTOR(6802)				
	D533,534	00D2760833900	ESD PROTECTOR(6802)				
	D709-711	251310004507S	CG0603MLC-12LE				
	D713-720	00D2760833900	ESD PROTECTOR(6802)				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	D801-805	00D2760794900	KDS160-RTK/P				
	D901	00D2760847909	RSX101M-30				
	D903	00D2760794900	KDS160-RTK/P				
	ZD452,453	251310004507S	CG0603MLC-12LE				
	ZD456,457	251310004507S	CG0603MLC-12LE				
	ZD701	00D2760683930	UDZS5.1B-TE17 +C				
RESISTORS GROUP							
	R669,670	00D2472019902	RM73B-102FT +1608				
	R723	00D2472035944	RM73B-202DT(1608)				
	R727	00D2472035928	RM73B-162DT(1608)				
	R823	00D2472042937	RM73B-153DT(1608)				
	R832	00D2472023914	RM73B-103DT(1608) +1608				
	R834-837	00D2472019902	RM73B-102FT +1608				
	R846	00D2472035973	RM73B-302DT(1608)				
	R847	00D2472042911	RM73B-123DT(1608)				
	RE819,820	00D2472019902	RM73B-102FT +1608				
	RE824,825	00D2472019902	RM73B-102FT +1608				
	RE914	00D2472046904	RM73B-181FT_1608				
	RE918	00D2472041909	RM73B-392DT(1608)				
	RE920	00D2472046904	RM73B-181FT_1608				
	RE923	00D2472025941	RM73B-221FT				
	RE924	00D2472027907	RM73B-511FT +1608				
	RE933	00D2472045934	RM73B-271FT_1608				
	RE935	00D2472045934	RM73B-271FT_1608				
	RE957-959	00D2472031948	RM73B-390DT(1608)				
	RE963	nsp	RM73B2B0R0KT +3216				
	RR860	00D2472033959	RM73B-331DT(1608)				
	RR861	00D2472035960	RM73B-272DT(1608)				
	RR863	129650030505S	RM73B2H49R9FT +3225				
	RA801-806	126250001502S	PRB3T4=0R0(1005X4)				
	RA851-858	126250001502S	PRB3T4=0R0(1005X4)				
	RA859-864	126250001519S	PRB3T4=151J(1005X4)				
CAPACITORS GROUP							
	C106	nsp	CK73B0J475KT(P) +1608				
	C107,108	nsp	CC73CH1H9R0DT +1608				
	C128	nsp	CK73B1A104KT +1005				
	C132	nsp	CK73B1A104KT +1005				
	C133	nsp	CK73B1H102KT +1005				
	C134	nsp	CK73B1E104KT +1608				
	C135	nsp	CK73B1E223KT +1608				
	C136	nsp	CK73B0J475KT(P) +1608				
	C147	nsp	CK73B1A104KT +1005	EU, EC, E2, E1C			
	C149	nsp	CK73B1A104KT +1005				
	C150	nsp	CK73B1H102KT +1005				
	C151	nsp	CK73B1E223KT +1608				
	C153	nsp	CK73B1A104KT +1005	EU, EC, E2, E1C			
	C154	nsp	CK73B1H102KT +1005	EU, EC, E2, E1C			
	C155	nsp	CK73B1E104KT +1608				

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	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C156	nsp	CK73B1E104KT +1608	EU, EC, E2, E1C			
	C157	nsp	CK73B1E223KT +1608	EU, EC, E2, E1C			
	C164-166	nsp	CK73B1H103KT (1608) +1608				
	C167	nsp	CK73B0J475KT(P) +1608				
	C168,169	nsp	CK73B1A104KT +1005				
	C246-248	nsp	CK73B0J475KT(P) +1608				
	C250	nsp	CK73B1E104KT +1608				
	C278	nsp	CK73B1E104KT +1608				
	C301	nsp	CK73B0J475KT(P) +1608				
	C302	nsp	CK73B1E104KT +1608				
	C303	nsp	CK73B1H103KT (1608) +1608				
	C306	nsp	CK73B1H103KT (1608) +1608				
	C310	nsp	CK73B0J475KT(P) +1608				
	C312	nsp	CK73B1E104KT +1608				
	C314-316	nsp	CK73B1H103KT (1608) +1608				
	C317,318	nsp	CC73CH1H101JT +1608				
	C319	nsp	CK73B0J475KT(P) +1608				
	C320	nsp	CK73B1E104KT +1608				
	C321	nsp	CK73B1H102KT +1005				
	C322	nsp	CK73B1E104KT +1608				
	C323	nsp	CK73B0J475KT(P) +1608				
	C324,325	nsp	CK73B1E104KT +1608				
	C326,327	nsp	CK73B0J475KT(P) +1608				
	C328	nsp	CK73B1H102KT +1005				
	C329	nsp	CK73B1H103KT (1608) +1608				
	C330	nsp	CK73B1E104KT +1608				
	C331	nsp	CK73B1H102KT +1005				
	C332	nsp	CK73B1H103KT (1608) +1608				
	C333	nsp	CK73B1E104KT +1608				
	C335	nsp	CC73CH1H102JT +1608				
	C335-357	nsp	CK73B1E104KT +1608				
	C338,339	nsp	CK73B1E104KT +1608				
	C358	00D2544645903	CE67C0J221MT(MVA) +REF				
	C359,360	nsp	CK73B0J106MT				
	C361	nsp	CK73B1H392KT +1608				
	C362	nsp	CC73CH1H471JT +1608				
	C363	nsp	CK73B1H392KT +1608				
	C364-367	nsp	CC73CH1H471JT +1608				
	C368,369	nsp	CK73B1H392KT +1608				
	C370-373	nsp	CC73CH1H471JT +1608				
	C374	nsp	CK73B1H392KT +1608				
	C375,376	nsp	CC73CH1H471JT +1608				
	C377	nsp	CK73B1H392KT +1608				
	C378,379	nsp	CC73CH1H471JT +1608				
	C380	nsp	CK73B1H392KT +1608				
	C381,382	nsp	CC73CH1H471JT +1608				
	C383	nsp	CK73B1H392KT +1608				
	C384	nsp	CC73CH1H471JT +1608				
	C385,386	00D2544603916	CE67W1E100MT(P.CAP) +REF				
	C387-393	nsp	CC73CH1H101JT +1608				
	C401	nsp	CK73X5R0J106MT(2125)				
	C402-404	nsp	CK73B1A104KT +1005				
	C405-409	nsp	CK73B1H102KT +1005				
	C410,411	nsp	CK73B1A104KT +1005				
	C412	nsp	CK73X5R0J106MT(2125)				
	C413	nsp	CK73B1H153KT +1608				

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	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C414	nsp	CC73CH1H101JT +1608				
	C415	nsp	CK73B1H102KT +1005				
	C416	nsp	CK73B1E104KT +1608				
	C417-422	nsp	CK73X5R0J106MT(2125)				
	C423,424	nsp	CK73B0J475KT(P) +1608				
	C425	nsp	CK73B1E104KT +1608				
	C426	nsp	CK73B1A104KT +1005				
	C427	nsp	CK73B1E104KT +1608				
	C428-432	nsp	CK73X5R0J106MT(2125)				
	C433	nsp	CK73B1A105KT +1608				
	C434	nsp	CC73CH1H101JT +1005				
	C435	nsp	CK73B1H102KT +1005				
	C436	nsp	CC73CH1H101JT +1005				
	C437	nsp	CK73B1H102KT +1005				
	C438	nsp	CC73CH1H101JT +1005				
	C439	nsp	CK73B1H102KT +1005				
	C501-508	nsp	CK73B1E104KT +1608				
	C509	nsp	CK73B1H103KT (1608) +1608				
	C510	nsp	CK73B1E104KT +1608				
	C511-513	nsp	CK73B1A104KT +1005				
	C514,515	nsp	CC73CH1H120JT +1005				
	C516,517	nsp	CC73CH1H150JT +1005				
	C518	nsp	CK73B1H102KT +1005				
	C519,520	nsp	CK73X5R0J106MT(2125)				
	C521,522	nsp	CK73B1H102KT +1005				
	C523-527	nsp	CK73B1A104KT +1005				
	C528,529	nsp	CK73X5R0J106MT(2125)				
	C530,531	nsp	CK73B1A104KT +1005				
	C532	nsp	CK73B1H102KT +1005				
	C533	nsp	CC73CH1H101JT +1005				
	C534	nsp	CK73B1E103KT(1005)				
	C535-543	nsp	CK73B1A104KT +1005				
	C544-547	nsp	CK73B1E103KT(1005)				
	C548	nsp	CK73B1A104KT +1005				
	C549,550	nsp	CK73B1E103KT(1005)				
	C551,552	nsp	CK73B1A104KT +1005				
	C553-555	nsp	CK73X5R0J106MT(2125)				
	C556,557	nsp	CK73B1E103KT(1005)				
	C558,559	nsp	CK73B1A104KT +1005				
	C560	nsp	CK73B1H102KT +1005				
	C561	nsp	CC73CH1H101JT +1005				
	C562	nsp	CK73B1A104KT +1005				
	C563,564	nsp	CK73B1E103KT(1005)				
	C565	nsp	CK73B1A104KT +1005				
	C566,567	nsp	CK73B1E103KT(1005)				
	C568,569	nsp	CK73B1A104KT +1005				
	C570	nsp	CK73B1E103KT(1005)				
	C571	nsp	CK73X5R0J106MT(2125)				
	C572	nsp	CK73B1E103KT(1005)				
	C573	nsp	CK73B1A104KT +1005				
	C574	nsp	CK73B1C823KT +1608				
	C575	nsp	CK73B1H103KT (1608) +1608				
	C576	nsp	CK73B1A824KT +1608				
	C577	nsp	CK73B1E393KT(1608)				
	C578-581	nsp	CK73B1E103KT(1005)				
	C582	nsp	CK73B1A104KT +1005				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C583	nsp	CK73X5R0J106MT(2125)				
	C584-586	nsp	CK73B1A104KT +1005				
	C587	nsp	CK73X5R0J106MT(2125)				
	C588-591	nsp	CK73B1A104KT +1005				
	C592	nsp	CK73B1H102KT +1005				
	C593-595	nsp	CK73B1A104KT +1005				
	C596-599	nsp	CK73B1E103KT(1005)				
	C600	nsp	CC73CH1H101JT +1005				
	C601-603	nsp	CK73X5R0J106MT(2125)				
	C604	nsp	CK73B1E103KT(1005)				
	C605-607	nsp	CK73B1H102KT +1005				
	C608	nsp	CK73B1E103KT(1005)				
	C609-612	nsp	CK73B1A104KT +1005				
	C613	nsp	CK73B1E103KT(1005)				
	C614-616	nsp	CK73B1A104KT +1005				
	C618	nsp	CK73B0J475KT(P) +1608				
	C619,620	nsp	CK73B1E103KT(1005)				
	C621	nsp	CC73CH1H101JT +1005				
	C623	nsp	CK73B1A104KT +1005				
	C624	nsp	CK73B0J475KT(P) +1608				
	C625-627	nsp	CK73B1A104KT +1005				
	C628-630	nsp	CK73B1E103KT(1005)				
	C633	nsp	CK73B1A104KT +1005				
	C637,638	nsp	CK73B1E103KT(1005)				
	C639	nsp	CK73B1A104KT +1005				
	C642	nsp	CK73B1E103KT(1005)				
	C643	nsp	CK73B1A104KT +1005				
	C645	nsp	CK73B1E103KT(1005)				
	C646	nsp	CK73B1H102KT +1005				
	C647	nsp	CK73B1E103KT(1005)				
	C648,649	nsp	CK73B1H102KT +1005				
	C651	nsp	CK73B0J475KT(P) +1608				
	C655,656	nsp	CK73B1H102KT +1005				
	C657-660	nsp	CC73CH1H101JT +1005				
	C720	nsp	CK73X5R0J106MT(2125)				
	C724	nsp	CC73CH1H101JT +1005				
	C726	nsp	CK73B1A104KT +1005				
	C728	nsp	CK73B1A104KT +1005				
	C730	nsp	CK73B1A104KT +1005				
	C732	nsp	CK73B1H102KT +1005				
	C734	nsp	CK73B1H102KT +1005				
	C739	nsp	CK73B1A104KT +1005				
	C741	nsp	CK73B1A104KT +1005				
	C743	nsp	CK73B1A104KT +1005				
	C745	nsp	CK73B1H102KT +1005				
	C751	nsp	CK73X5R0J106MT(2125)				
	C755	nsp	CC73CH1H101JT +1005				
	C757	nsp	CK73B1A104KT +1005				
	C763	nsp	CK73B1H102KT +1005				
	C765	nsp	CK73B1H102KT +1005				
	C767	nsp	CK73X5R0J106MT(2125)				
	C771	nsp	CC73CH1H101JT +1005				
	C773	nsp	CK73B1A104KT +1005				
	C775	nsp	CK73B1A104KT +1005				
	C777	nsp	CK73X5R0J106MT(2125)				
	C779-780	nsp	CK73B1H102KT +1005				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C782	nsp	CC73CH1H101JT +1005				
	C785	nsp	CK73B1A104KT +1005				
	C795	nsp	CK73B1H102KT +1005				
	C797	nsp	CK73B1H102KT +1005				
	C801	nsp	CK73B1A104KT +1005				
	C802	nsp	CK73B0J475KT(P) +1608				
	C803	nsp	CK73B1A104KT +1005				
	C804,805	nsp	CK73B0J475KT(P) +1608				
	C806	nsp	CK73B1A104KT +1005				
	C807	nsp	CK73B1A224KT +1608				
	C808	nsp	CK73X5R0J106MT(2125)				
	C809,810	nsp	CK73B1A104KT +1005				
	C811-815	nsp	CK73B0J475KT(P) +1608				
	C816-818	nsp	CK73B1A104KT +1005				
	C819	nsp	CK73B1H103KT (1608) +1608				
	C820	nsp	CK73B1A104KT +1005				
	C821	nsp	CK73B1H102KT +1608				
	C822-825	nsp	CK73B1A104KT +1005				
	C826	nsp	CK73B1H103KT (1608) +1608				
	C827	nsp	CK73B1A104KT +1005				
	C828	nsp	CK73B1H102KT +1608				
	C829-832	nsp	CK73B1A104KT +1005				
	C833	nsp	CK73B1H103KT (1608) +1608				
	C834	nsp	CK73B1A104KT +1005				
	C835	nsp	CK73B1H102KT +1608				
	C836-845	nsp	CK73B1A104KT +1005				
	C846	nsp	CK73B1A224KT +1608				
	C847	nsp	CK73B0J475KT(P) +1608				
	C848-861	nsp	CK73B1A104KT +1005				
	C862,863	nsp	CK73B0J475KT(P) +1608				
	C864-869	nsp	CK73B1A104KT +1005				
	C870	nsp	CK73B1A105KT +1608				
	C871	nsp	CK73B1A224KT +1608				
	C872-874	nsp	CK73B1A104KT +1005				
	C875	nsp	CK73B1H102KT +1005				
	C876	nsp	CK73B1A104KT +1005				
	C877	nsp	CK73B1H102KT +1005				
	C878	nsp	CK73B1A104KT +1005				
	C879	nsp	CK73B1H102KT +1005				
	C883	nsp	CK73B1A104KT +1005				
	C884	nsp	CC73CH1H5R0CT +1005				
	C887-895	nsp	CK73B1A104KT +1005				
	C896	nsp	CK73B0J475KT(P) +1608				
	C897-899	nsp	CK73X5R0J106MT(2125)				
	C901	nsp	CK73B1A104KT +1005				
	C902	nsp	CK73B1H102KT +1005				
	C903,904	nsp	CC73CH1H101JT +1005				
	C905	nsp	CC73CH1H120JT +1608				
	C906	nsp	CC73CH1H150JT +1608				
	C907	nsp	CK73B1H102KT +1005				
	C909	nsp	CK73B0J475KT(P) +1608				
	C910	nsp	CK73B1A104KT +1005				
	C911	nsp	CK73B0J475KT(P) +1608				
	C913	nsp	CK73B0J475KT(P) +1608				
	C917	nsp	CK73B1H102KT +1608				
	C918,919	nsp	CK73B0J475KT(P) +1608				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C920	nsp	CK73B1A104KT +1005				
	C922	nsp	CK73B1H221KT +1005				
	C923	nsp	CK73B1H103KT (1608) +1608				
	C924,925	nsp	CK73B1A104KT +1005				
	C927	nsp	CC73CH1H101JT +1005				
	C928,929	nsp	CK73B1A104KT +1005				
	C930	nsp	CK73B1H102KT +1005				
	C931	nsp	CK73B1H102KT +1608				
	C932	nsp	CK73B0J475KT(P) +1608				
	C933	00D2574017909	CE67C0J101MT(PXA)				
	C951,952	00D2544601918	CE67W0J471MT(P.CAP) +REF				
	C974	nsp	CK73B1H102KT +1005				
	C978	nsp	CC73CH1H101JT +1005				
	C986-993	nsp	CC73CH1H101JT +1005				
	C995-998	nsp	CC73CH1H101JT +1005				
	CC100	nsp	CK73B1A104KT +1005				
	CC101	nsp	CK73B0J475KT(P) +1608				
	CC102-104	nsp	CK73B1A104KT +1005				
	CC105	nsp	CC73CH1H101JT +1005				
	CC106	nsp	CK73B1A104KT +1005				
	CC107	nsp	CK73B1H102KT +1005				
	CC108	nsp	CK73B1A104KT +1005				
	CC109	nsp	CC73CH1H101JT +1005				
	CC110,111	nsp	CK73B0J475KT(P) +1608				
	CC112	nsp	CK73B1E104KT +1608				
	CC113	nsp	CK73B1A105KT +1608				
	CC114-116	nsp	CK73X5R0J106MT(2125)				
	CC119	nsp	CK73B0J475KT(P) +1608				
	CC120	nsp	CK73B1H102KT +1005				
	CC121	nsp	CK73X5R0J106MT(2125)				
	CC123	nsp	CK73B1A104KT +1005				
	CC124	nsp	CK73X5R0J106MT(2125)				
	CC125	nsp	CK73B1E104KT +1608				
	CC126	nsp	CC73CH1H101JT +1005				
	CC127	nsp	CK73B1H102KT +1005				
	CC128,129	nsp	CC73CH1H101JT +1005				
	CC130	nsp	CK73B1H102KT +1005				
	CC131	nsp	CC73CH1H101JT +1005				
	CC201	nsp	CK73B1H102KT +1005				
	CC202	nsp	CC73CH1H101JT +1005				
	CC203	nsp	CK73B1H102KT +1005				
	CC204	nsp	CC73CH1H101JT +1005				
	CC205	nsp	CK73B1H102KT +1005				
	CC206	nsp	CC73CH1H101JT +1005				
	CC212,213	nsp	CK73B0J475KT(P) +1608				
	CC214-216	nsp	CC73CH1H101JT +1005				
	CC217-231	nsp	CK73B1A104KT +1005				
	CC232,233	nsp	CK73B0J475KT(P) +1608				
	CC234	nsp	CK73B1A104KT +1005				
	CC236,237	nsp	CK73B1A104KT +1005				
	CC238,239	nsp	CC73CH1H7R0DT +1005				
	CC241	00D2574011905	CE67C0J101MT (RV2) +REF				
	CC243	nsp	CC73CH1H101JT +1005				
	CC268-292	nsp	CC73CH1H101JT +1005				
	CC301	nsp	CK73B1A105KT +1608				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	CC302	nsp	CK73B1A105KT +1608	EU, EC, E2, E1C			
	CC307	nsp	CK73B1A105KT +1608				
	CC308	nsp	CK73B0J475KT(P) +1608				
	CC309	nsp	CK73B1A105KT +1608	EU, EC, E2, E1C			
	CC310	nsp	CK73B0J475KT(P) +1608				
	CC311,312	nsp	CK73B0J475KT(P) +1608	EU, EC, E2, E1C			
	CC338	nsp	CK73B1E104KT +1608				
	CC339	nsp	CK73B1H102KT +1608				
	CC340	nsp	CC73CH1H101JT +1608				
	CC346-357	nsp	CC73CH1H101JT +1005				
	CC360-363	nsp	CC73CH1H101JT +1005				
	CC365-368	nsp	CC73CH1H101JT +1005				
	CC372-380	nsp	CC73CH1H101JT +1005				
	CC400	nsp	CC73CH1H101JT +1005				
	CC402	nsp	CK73B1A104KT +1005				
	CC410	nsp	CK73B1A104KT +1005				
	CC414	nsp	CK73B0J475KT(P) +1608				
	CC419	nsp	CK73B1H102KT +1005				
	CC420,421	nsp	CC73CH1H101JT +1005				
	CC422-424	nsp	CK73B1H102KT +1005				
	CC428-431	nsp	CK73B1A104KT +1005				
	CC432	nsp	CK73B0J475KT(P) +1608				
	CC434,435	nsp	CK73B0J475KT(P) +1608				
	CC437	nsp	CK73B1A104KT +1005				
	CC439	nsp	CK73B0J475KT(P) +1608				
	CC443	nsp	CK73B0J475KT(P) +1608				
	CC445	nsp	CK73B1A104KT +1005				
	CC447,448	nsp	CC73CH1H101JT +1005				
	CC457-476	nsp	CC73CH1H101JT +1005				
	CC478-491	nsp	CC73CH1H101JT +1005				
	CC501,502	nsp	CK73B0J475KT(P) +1608				
	CC503	nsp	CK73B1E103KT(1005)				
	CC504	nsp	CC73CH1H101JT +1005				
	CC505	nsp	CK73B1A104KT +1005				
	CC508	nsp	CK73B1H102KT +1005				
	CC510	nsp	CK73B0J475KT(P) +1608				
	CC512-515	nsp	CC73CH1H101JT +1005				
	CC516,517	nsp	CK73B1H102KT +1005				
	CC518	nsp	CK73B1A104KT +1005				
	CC519-526	nsp	CK73B0J475KT(P) +1608				
	CC527-541	nsp	CK73B1A104KT +1005				
	CC542-546	nsp	CC73CH1H101JT +1005				
	CC547-549	nsp	CK73B0J475KT(P) +1608				
	CC550-556	nsp	CK73B1A104KT +1005				
	CC557-562	nsp	CC73CH1H101JT +1005				
	CC563	nsp	CK73B1A104KT +1005				
	CC564,565	nsp	CK73B0J475KT(P) +1608				
	CC566-568	nsp	CK73B1A104KT +1005				
	CC569-572	nsp	CC73CH1H101JT +1005				
	CC573,574	nsp	CK73B1H102KT +1005				
	CC643	nsp	CC73CH1H101JT +1005				
	CC646	nsp	CC73CH1H101JT +1005				
	CC648	nsp	CC73CH1H101JT +1005				
	CC650	nsp	CC73CH1H101JT +1005				
	CC654,655	nsp	CC73CH1H101JT +1005				
	CC657	nsp	CC73CH1H101JT +1005				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	CC659	nsp	CC73CH1H101JT +1005				
	CC668	nsp	CC73CH1H101JT +1005				
	CC670	nsp	CC73CH1H101JT +1005				
	CC674	nsp	CC73CH1H101JT +1005				
	CC678-682	nsp	CC73CH1H101JT +1005				
	CC721	nsp	CK73B1A104KT +1005				
	CC801	nsp	CK73B1A104KT +1005				
	CC802,803	nsp	CK73X5R0J106MT(2125)				
	CC804	nsp	CK73B1H222KT +1608				
	CC805	nsp	CK73X5R0J106MT(2125)				
	CC806	nsp	CK73B1H222KT +1608				
	CC807-810	nsp	CK73X5R0J106MT(2125)				
	CC811,812	nsp	CK73B1A104KT +1005				
	CC813	nsp	CK73X5R0J106MT(2125)				
	CC814,815	nsp	CK73B1A104KT +1005				
	CC816	nsp	CK73B1H102KT +1005				
	CC817,818	nsp	CK73B0J475KT(P) +1608				
	CC819-821	nsp	CK73X5R0J106MT(2125)				
	CC823-825	nsp	CK73X5R0J106MT(2125)				
	CC827-830	nsp	CK73X5R0J106MT(2125)				
	CC831-849	nsp	CC73CH1H101JT +1005				
	CC851-872	nsp	CK73B1A104KT +1005				
	CC873	00D2574011905	CE67C0J101MT (RV2) +REF				
	CC874,875	nsp	CK73B0J475KT(P) +1608				
	CC876-878	nsp	CK73B1A104KT +1005				
	CC879	nsp	CK73B0J475KT(P) +1608				
	CC880-884	nsp	CK73B1A104KT +1005				
	CC885,886	nsp	CK73B0J475KT(P) +1608				
	CC887-895	nsp	CK73B1A104KT +1005				
	CC896-899	nsp	CK73B1H102KT +1005				
	CC901	nsp	CK73B1A104KT +1005				
	CC902	nsp	CK73B1H102KT +1005				
	CC903	nsp	CK73B0J475KT(P) +1608				
	CC904	nsp	CC73CH1H101JT +1005				
	CC905,906	nsp	CK73B1A104KT +1005				
	CC907	nsp	CK73B0J475KT(P) +1608				
	CC908	nsp	CK73B1H102KT +1005				
	CC909	nsp	CK73B1A104KT +1005				
	CC910	nsp	CC73CH1H101JT +1005				
	CC911,912	nsp	CK73B1A104KT +1005				
	CC915	nsp	CK73B1H123KT +1608				
	CC921	nsp	CK73B1A154KT +1608				
	CC922	nsp	CK73B1H123KT +1608				
	CC924,925	nsp	CK73B1H222KT +1005				
	CC926	nsp	CK73B1A104KT +1005				
	CC928	nsp	CK73B1E103KT(1005)				
	CC931	nsp	CK73B1A104KT +1005				
	CC933	nsp	CK73B1A154KT +1608				
	CC939-943	nsp	CK73B1A104KT +1005				
	CC951-953	nsp	CK73B1H102KT +1005				
	CC954-957	nsp	CK73B1A104KT +1005				
	CC958,959	nsp	CK73B0J475KT(P) +1608				
	CC960-968	nsp	CK73B1A104KT +1005				
	CC969-975	nsp	CK73B1H102KT +1005				
	CC976,977	nsp	CK73X5R0J106MT(2125)				
	CC978-991	nsp	CC73CH1H101JT +1005				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
OTHERS PARTS GROUP							
	AS903	nsp	HEAT SINK(10FSH036)				
	CW301,302	nsp	30P CONN. SOCKET				
	CX047	nsp	4P VH CONNECTOR BASE				
	CX304	645010041609S	DDR2_SO-DIMM_SOCKET				
	CX971,972	00D2051343950	7P FFC BASE(9610SC)				
	CX973	00D2051343905	11P FFC BASE(9610SCA)				
	CX974	00D2051343950	7P FFC BASE(9610SC)				
	CX991	00D2051222000	RJ-45 JACK(GND)				
	CY052	nsp	20022WS-05C		L101200220510S		
	CY067	nsp	6P FFC BASE(9610SC)				
	CY111	00D2051343905	11P FFC BASE(9610SCA)				
	CY121	00D2051313935	12P FFC BASE(9610SC)				
	CY133	00D2051258045	13P FFC BASE(9604SC)		EU, EC, 990E3		
	CY141	00MYJ0704001Y	IMSA-9610S-14Y919				
	CY151	00D2051343934	15P FFC BASE(9610SC)				
	CY193	00D2051313951	19P FFC BASE(9610SC)				
	CY232	00D2051343918	23P FFC BASE(9610SCA)				
	FB101	00D2350147909	E.FIL(BLM21PG221SN1)+2125				
	FB103	00D2350130903	CHIP EMIFIL(11A121) +1608				
	FB104	00D2350147909	E.FIL(BLM21PG221SN1)+2125				
	FB201,202	00D2350147909	E.FIL(BLM21PG221SN1)+2125				
	FB401,402	00D2350147909	E.FIL(BLM21PG221SN1)+2125				
	FB452	00D2350130903	CHIP EMIFIL(11A121) +1608				
	FB501	00D2350147909	E.FIL(BLM21PG221SN1)+2125				
	FB502	00D2350130903	CHIP EMIFIL(11A121) +1608				
	FB601,602	00D2350147909	E.FIL(BLM21PG221SN1)+2125				
	FB801,802	00D2350147909	E.FIL(BLM21PG221SN1)+2125				
	FB803	00D2350130903	CHIP EMIFIL(11A121) +1608				
	FB851	00D2350147909	E.FIL(BLM21PG221SN1)+2125				
	FB901	00D2350130903	CHIP EMIFIL(11A121) +1608				
	FB902	00D2350147909	E.FIL(BLM21PG221SN1)+2125				
	FB903-909	nsp	RM73B-0R0KT +1608				
	FB910-912	00D2350130903	CHIP EMIFIL(11A121) +1608				
	FB913	nsp	RM73B-0R0KT +1608				
	JK401-403	00D2051447005	19P-HDMI-CONNECTOR				
	JK502,503	00D2051447005	19P-HDMI-CONNECTOR				
	JK701	00D2051447005	19P-HDMI-CONNECTOR				
	L701-703	00D2350125905	INDUCTOR(FLC32C220K)+3216				
	L801,802	111810014502S	INDUCTOR 10UH(7E10H)				
	L803-808	00D2350125905	INDUCTOR(FLC32C220K)+3216				
	L851,852	00D2350125905	INDUCTOR(FLC32C220K)+3216				
	L902,903	113410001506S	DLW21SN900HQ2L				
	ST901-903	nsp	STYLE PIN				
	ST906	nsp	STYLE PIN				
	W101	nsp	M3 SCREW TERMINAL				
	W916	nsp	1P SIN CORD ASSY (L=190mm)				

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	X101	00D3991053901	FCX-03(24.576MHz)				
	X251	00D3991054900	FCX-03(20.815MHz)				
	X501,502	00D3991052902	FCX-03(28.6363MHz)				
	X901	141810019508S	TXC 7A(16MHZ)				
	TP601	00D2051343950	7P FFC BASE(9610SC)				
		nsp	COOLPROVIDE(CPVS-1.0)				

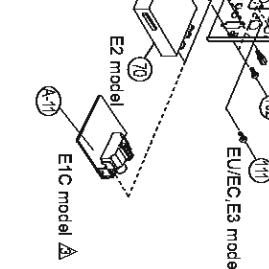
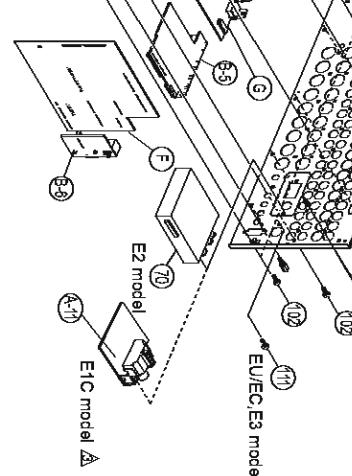
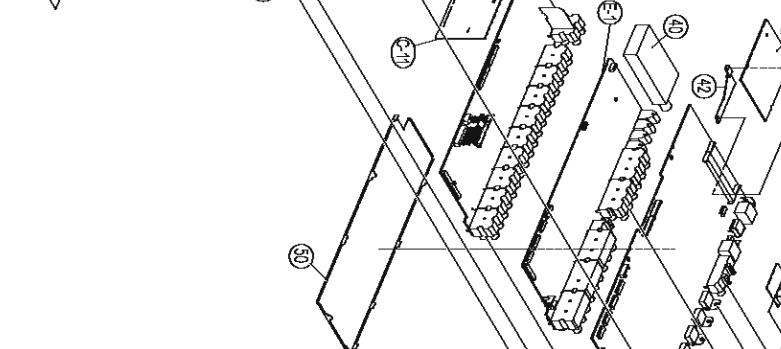
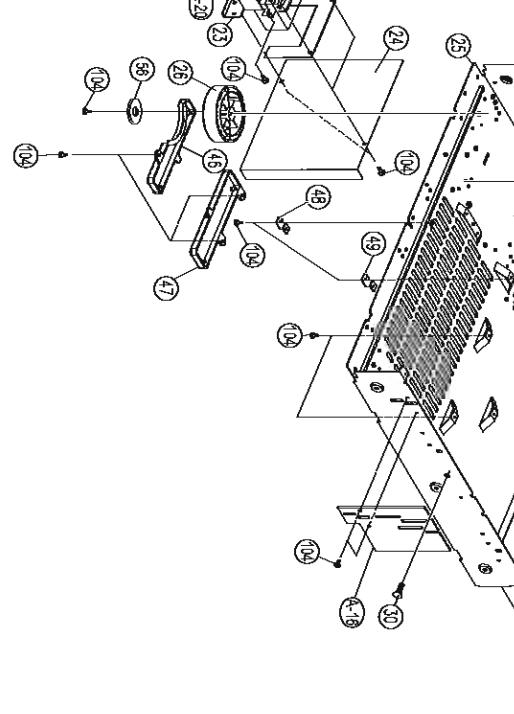
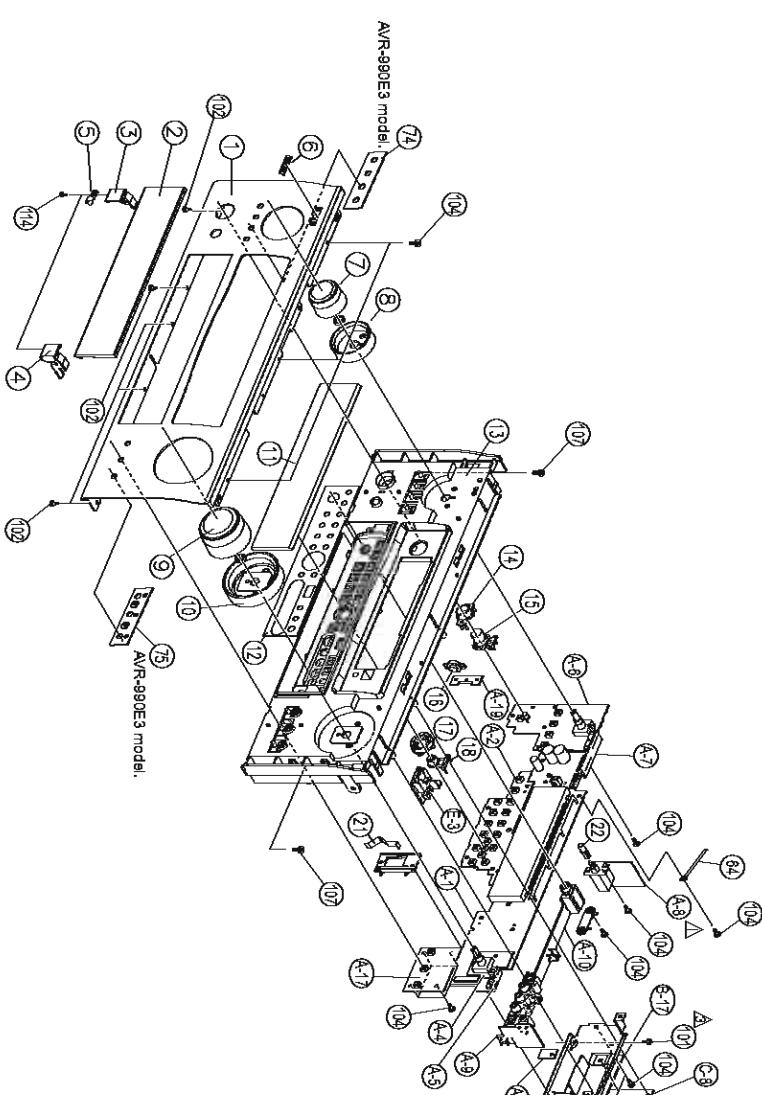
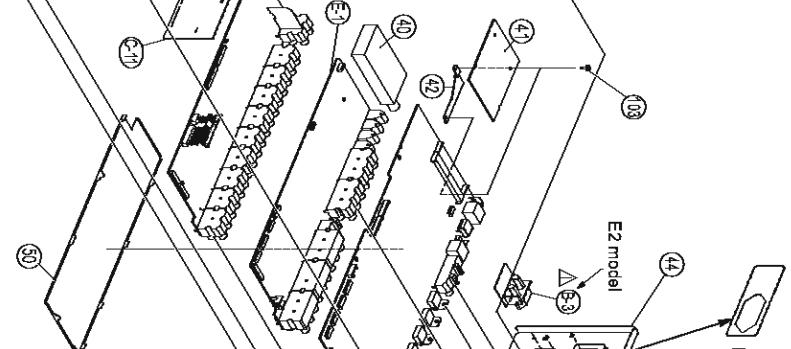
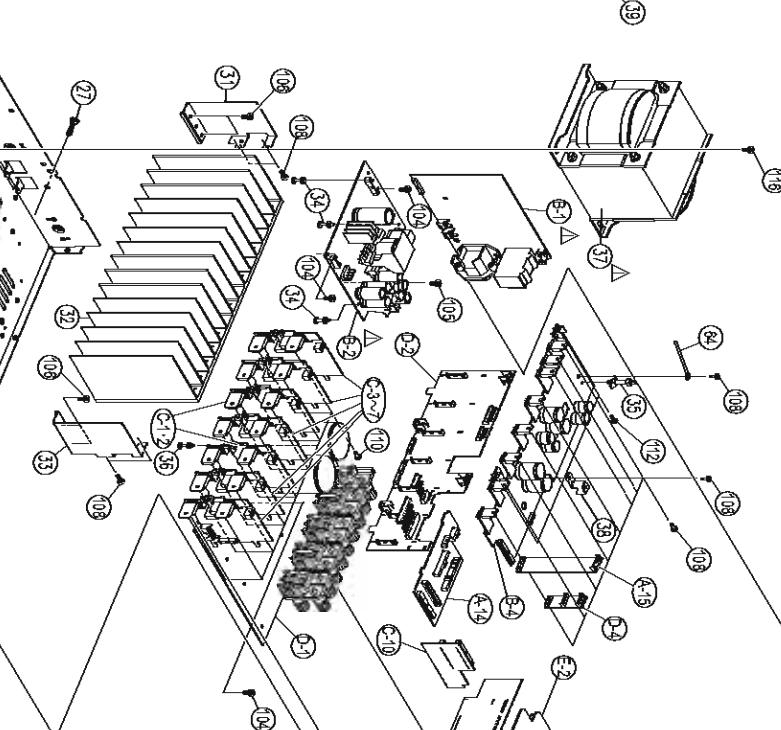
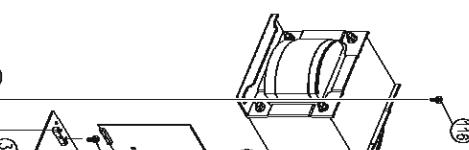
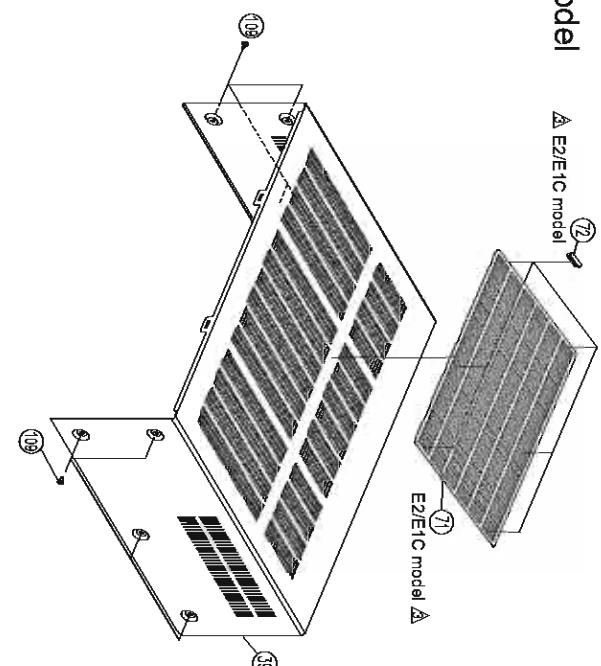
PTC P.W.B. UNIT ASS'Y 

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
OTHERS PARTS GROUP							
△	AS991	252310006513S	PRF18BC471QB5RB				
△	AS992	252310006513S	PRF18BC471QB5RB				
	W991	nsp	M3 SCREW TERMINAL				
	W992	nsp	CN,WIRE				

EXPLODED VIEWS ▲▲

This illustration is AVR-3310CI model

▲ E2/E1C model



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

PARTS LIST OF EXPLODED VIEW

* Parts for which "nsp" is indicated on this table cannot be supplied.

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

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

BK : Black model	SP : Premium Silver model
EU(AVR-3310) : U.S.A. model	EC(AVR-3310) : Canada model
E2(AVR-3310) : Europe model	E1C(AVC-3310) : Chaina model
990E3(AVR-990) : U.S.A. & Canada mode	

2

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	A	nsp	FRONT UNIT			
	A-1	-	FLD UNIT		1	*
	A-2	-	TACT-1 UNIT		1	*
	★ A-3	-	TACT-2 UNIT		1	*
	A-4	-	VOLUME UNIT		1	*
△	A-5	-	VR CONNECT UNIT		1	*
	A-6	-	FUNC UNIT		1	*
	A-7	-	FUNC CONNECT UNIT		1	*
	A-8	-	P.SW UNIT		1	*
	A-9	-	MIC UNIT		1	*
	A-10	-	FRONT IN UNIT		1	*
	A-11	-	TUNER IN UNIT	E1C	1	*
	★ A-13	-	DIGITAL IN UNIT		1	*
	A-14	-	AUDIO CONNECT UNIT		1	*
	A-15	-	REG CONNECT-1 UNIT		1	*
	A-16	-	FFC LOCK UNIT		1	*
	A-17	-	VOLUME UNIT		1	*
	A-19	-	BKT2 UNIT(CUT PWB BOARD)		1	*
	A-20	-	BKT1 UNIT(CUT PWB BOARD)		1	*
△	B	nsp	POWER SUPPLY UNIT			
△	B-1	-	STANDBY POWER UNIT		1	*
△	B-2	-	DIGITAL POWER UNIT		1	*
△	B-3	-	E2 OUTLET UNIT	E2	1	*
	B-4	-	REG UNIT		1	*
	B-5	-	REMOTE/IPOD UNIT		1	*
	B-6	-	232C UNIT		1	*
	★ B-7	-	PTC UNIT		1	*
	B-17	-	FFC HOLDER UNIT		1	*
	C	nsp	P.AMP UNIT			
	C-1~2	-	P.AMP UNIT		2	*
	C-3~7	-	P.AMP UNIT		5	*
	C-8	-	FFC HOLD UNIT		1	*
	C-10	-	CONNECT UNIT-1		1	*
	C-11	-	DAC MUTE UNIT		1	*
	D	nsp	SPEAKER UNIT			
	D-1	-	SPEAKER UNIT		1	*
	D-2	-	AMP CONNECT UNIT		1	*
	D-4	-	CONNECT UNIT-2		1	*
	E	nsp	A.AUDIO/VIDEO UNIT			
	E-1	-	A.VIDEO UNIT		1	*
	E-2	-	A.AUDIO UNIT		1	*
	E-3	-	FRONT USB UNIT		1	*
	F	nsp	MAIN CPU UNIT			

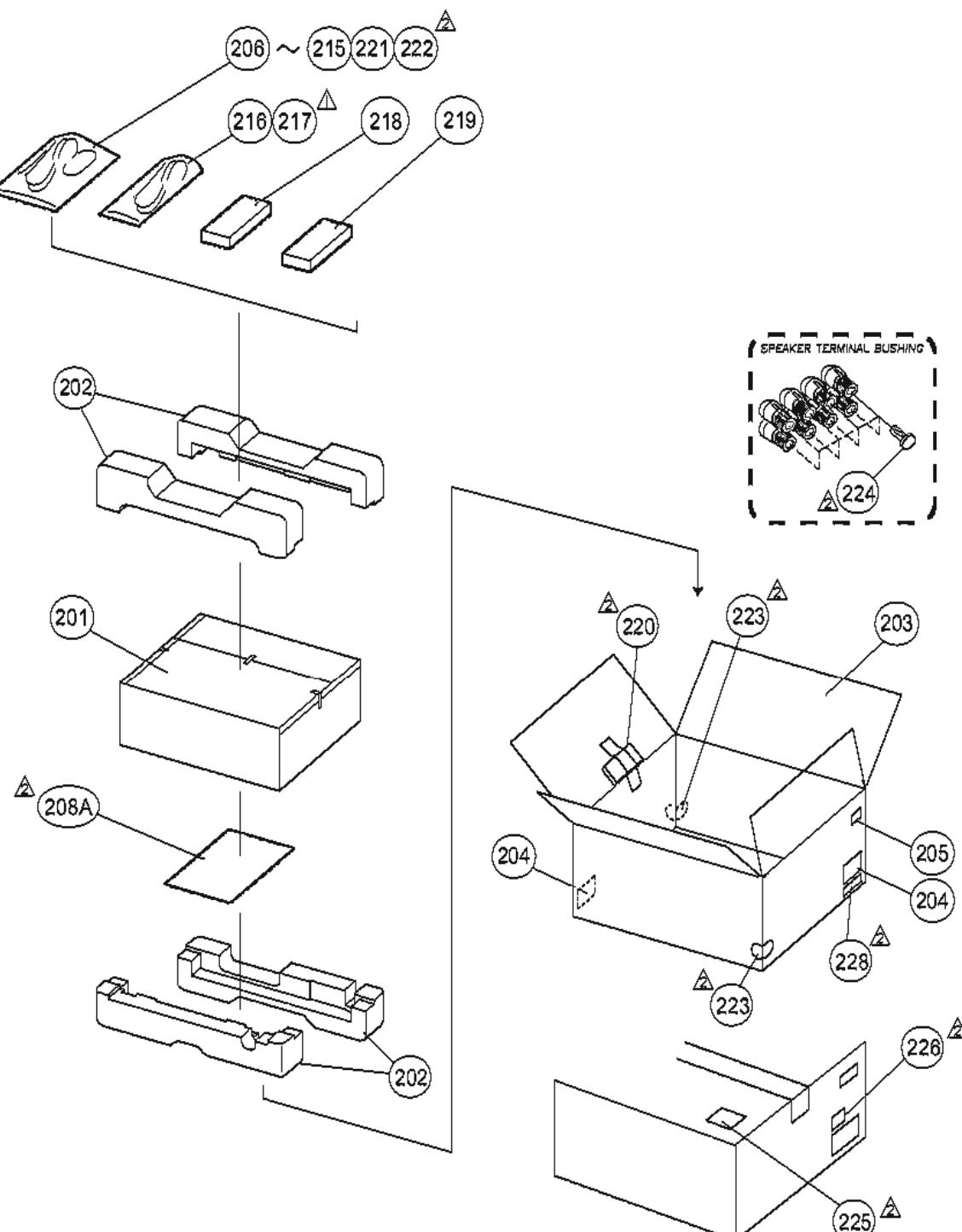
	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	G	963189005390D	DIGITAL UNIT	EU, EC	7025HK0905011	1	*
	G	963189005400D	DIGITAL UNIT	990E3	7025HK0905031	1	*
	G	963189007930D	DIGITAL UNIT	E2, E1C	7025HK0905051	1	*
★ H	nsp	PTC UNIT				1	*
	1	963402005010D	FRONT PANEL	EU, EC	3067214538000S	1	*
	1	963402006440D	FRONT PANEL	990E3	3067214548000S	1	*
	1	963402006450D	FRONT PANEL	BKE2	3067214538010S	1	*
	1	963402006460D	FRONT PANEL	SPE2	3067214538020S	1	*
	1	963402006480D	FRONT PANEL	SPE1C	3067214538100S	1	*
	2	963415005020D	DOOR	EU, EC, 990E3	5047210558000S	1	*
	2	963415006550D	DOOR	BKE2	5047210558010S	1	*
	2	963415006560D	DOOR	SPE2	5047210558020S	1	*
	2	963415006580D	DOOR	SPE1C	5047210558030S	1	*
	3	00D4010195202	HINGE (L)	BK		1	
	3	00D4010195231	HINGE (L)	SP		1	
	4	00D4010196201	HINGE (R)	BK		1	
	4	00D4010196230	HINGE (R)	SP		1	
	5	nsp	EARTH PLATE(DOOR)		446410034015D	1	*
	6	00D1310169038	DENON BADGE	BK		1	
	6	00D1310169041	DENON BADGE	SP		1	
	7	963412006590D	KNOB(F) ASSY	BK	5088212078000SZ	1	
	7	963412006600D	KNOB(F) ASSY	SP	5088212078010SZ	1	
	8	00D1140203009	KNOB RING(F)	EU, EC, BKE2		1	
	8	424510007005D	KNOB RING(F)	990E3		1	
	8	00D1140203025	KNOB RING(F)	SP		1	
	9	963412006620D	KNOB(M) ASSY	BK	5088-21206-810-0SZ	1	
	9	963412006630D	KNOB(M) ASSY	SP	5088-21206-811-0SZ	1	
	10	424510006002D	KNOB RING(M)	EU, EC, BKE2		1	
	10	424510008008D	KNOB RING(M)	990E3		1	
	10	424510006019D	KNOB RING(M)	SP		1	
	11	963416005030D	WINDOW		5077212783000S	1	*
	12	00D1431293139	DOOR SHEET	EU, EC, BKE2	1217210952000S	1	*
	12	00D1431293155	DOOR SHEET	990E3	1217210952100S	1	*
	12	00D1431293142	DOOR SHEET	SPE2, SPE1C	1217210952010S	1	*
	13	963443005280D	INNER PANEL	EU, EC, BKE2	3067214551000S	1	*
	13	963443006650D	INNER PANEL	990E3	3067214701000S	1	*
	13	963443006660D	INNER PANEL	SPE2	3067214551100S	1	*
	13	963443006690D	INNER PANEL	SPE1C	3067214551400S	1	*
	14	00D1431255009	LENS (POWER)		3710210863000S	1	
	15	00D1131992109	P.KNOB ASSY(SUB)	BK	5098214028000SZ	1	
	15	00D1131992138	P.KNOB ASSY(SUB)	SP	5098214028010SZ	1	
	16	00D4210763010	GEAR DAMPER			1	
	17	00D1131996202	CURSOR KNOB	BK		1	
	17	00D1131996231	CURSOR KNOB	SP		1	
	18	00D1131995054	ENTER KNOB	BK		1	*
	18	00D1131995067	ENTER KNOB	SP		1	*
	21	00D4125083102	DOOR STOPPER			1	
	22	00D1131994107	P.KNOB ASSY(MAIN)	BK	5098214038000SZ	1	
	22	00D1131994149	P.KNOB ASSY(MAIN)	SP	5098214038010SZ	1	
	23	nsp	FRONT BRACKET			1	*
	24	nsp	FFC GUARD (FRONT)			1	*
	25	nsp	MAIN CHASSIS		3200213166000S	1	*
	26	963407003330D	FOOT		4000210261000S	4	
	27	nsp	LOCKING CARD SPACER (H=14)	KGLS-14RT		1	

3
3

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New	
	30	nsp	P.C.B HOLDER	KGLS-10RT	1		
	31	nsp	RADIATOR BRACKET(L)	444310192015D	1	*	
	32	nsp	RADIATOR		1	*	
	33	nsp	RADIATOR BRACKET(R)	444310193018D	1	*	
	34	nsp	CARD SPACER (L=12)	MPS-12-0	3		
	35	nsp	P.C.B HOLDER	KGLS-12S	1		
	36	nsp	CARD SPACER (L=8)	MPS-8-0	1		
⚠	37	963101005040D	MAIN TRANS(3310CIEU)	EU, EC, 990E3	8200960750140S	1	*
⚠	37	963101006700S	MAIN TRANS(3310E2)	E2	8200960750160S	1	*
⚠	37	963101006710S	MAIN TRANS(3310E1C)	E1C	8200960750170S	1	*
	38	nsp	BRACKET DIGITAL		444310196215D	1	*
	39	8S4031003000D	TOP COVER SUB ASSY	BK		5	
	39	8S4031003001D	TOP COVER SUB ASSY	SP		5	
	40	183010010008S	HD TUNER(H6101)	EU, EC, 990E3		3	
	41	8R1891001200D	DM860 SUB ASSY	EU, EC		3	
	41	8R1891001202D	DM860 SUB ASSY	990E3		3	
	41	8R1891001201D	DM860 SUB ASSY	E2		3	
	41	8R1891001203D	DM860 SUB ASSY	E1C		3	
	42	nsp	BRACKET (870)		444310197119D	*	
	44	963406005050D	BACK PANEL	EU, EC	3207212996000S	*	
	44	963406006720D	BACK PANEL	990E3	3207212996100S	*	
	44	963406006740D	BACK PANEL	E2	3207212996200S	*	
	44	963406006750D	BACK PANEL	E1C	3207212996300S	*	
	45	00D2051116006	TERMINAL ASS			*	
	46	nsp	BOTTOM PLATE		446510024109D	*	
	47	nsp	BOTTOM PLATE REAR		446510026006D	*	
	48	nsp	BRACKET		1		
	49	nsp	BRACKET POWER		1	*	
	50	nsp	SHIELD PLATE		445310085011D	*	
★	51	nsp	EMIGASKET RFSG020050	25+25	-	3	
	★ 52	nsp	EMIGASKET RFSG010100	25		3	
	★ 53	nsp	ALUMINUM TAPE	50+70		3	
	★ 55	00D3420032053	FERRITE CLAMP(RFC-7W)	E2, E1C			
	56	00D4610385001	RUBBER PAD		1		
	★ 57	nsp	LICENSE SUB ASSY	EU, EC, 990E3	4	*	
	★ 57	nsp	LICENSE SUB ASSY	E2, E1C	1	*	
	★ 59	nsp	RATING LABEL BASE		2		
	★ 60	nsp	CUPPER TAPE(W=15)	30mm	-		
	★ 61	nsp	RUBBER FOAM		1		
	★ 62	nsp	RUBBER SHEET		2		
	★ 63	nsp	RUBBER SHEET		2		
	64	nsp	CORD HOLDER (L50)		2		
	★ 65	nsp	CUSHION CPU		1		
	★ 66	nsp	LABEL (HOT SURFACE CAUTION)	EU, EC, 990E3	1	*	
	★ 67	nsp	SERIAL NO. SHEET		1		
	★ 68	nsp	SCREW COVER		1		
	★ 69	nsp	WIRE CLAMPER	EU, EC, 990E3	9	3	
	★ 69	nsp	WIRE CLAMPER	E2, E1C	10	3	
	70	00D2160125108	FM AM TUNER (E2)	E2	1		
	71	00D4141058014	SAFETY COVER	BKE2	1		
	71	00D4141058001	SAFETY COVER	SPE2,SPE1C	1		
	72	00D4490139105	COVER HOLDER	BKE2	6		
	72	00D4490139118	COVER HOLDER	SPE2,SPE1C	6		
	74	424510010001D	KNOB GUIDE (A)	990E3	1		
	75	424510011004D	KNOB GUIDE (B)	990E3	1		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	★ 76	nsp	CroHS LABEL SET	E1C	5507000000830S	1	
	★ 80	nsp	MAC ADDRESS SUB ASSY			1	
	★ 81	nsp	SP RIVET			1	
SCREWS							
	101	nsp	3X8 CBTS(S)-B		B020930083B10S	7	
	102	nsp	SCREW +2S 3*10 B-TYPE(DOT) BK/BH	EU, EC, E3, E2	B020030103B11S	52	
	102	nsp	SCREW +2S 3*10 B-TYPE(DOT) BK/BH	E1C	B020030103B11S	50	
	103	nsp	SCREW +2S 2.6x8 B-TYPE BK/BH		B020026083B10S	2	
	104	nsp	SCREW,TAP TITE +2S 3*8 B-TYPE ZNW/BH		B020030081B10S	56	
	105	nsp	SCREW +2S 3x8(ROUND) BK/BH		B020230083B10S	1	
	106	nsp	SCREW +2S 3x6 B-TYPE BK/BH		B020030063B10S	4	
	107	nsp	SCREW +2S 3*8 PI9.5 B-TYPE ZNW		1500001206010S	2	
	108	nsp	3X10 CBTS(B)-Z		B020030101B10S	16	
	109	00D9630048307	4X8 CBTS(B)-B-3P	BK	1500040083B10S	10	
	109	00D9630048307	4X8 CBTS(B)-B-3P	SP	1500040083B10S	2	
	109	00D9639004012	4X8 CBTS(B)-N-3P	SP	1500040084B10S	8	
	110	nsp	3X16 CPTS(B) SW W		B018230141H11S	14	
	111	nsp	SCREW +M 3x10 BK/B	EU, EC, E3	B000030103B10S	1	
	114	nsp	SCREW +2S 3*8 B-TYPE BK/FH		B020030083F10S	2	
	116	nsp	SCREW +3S 4x10 P+S-WASHER ZNW/BH		B028940101B10S	4	
WIRES							
		nsp	5P PH-PH CON.CORD (L=580mm)	CX052 to CY052		1	
		nsp	6P PH-PH CON.CORD(UL TUBE)	CW068 to CX068		1	
		606050061002S	FFC 19P 140mm 1mm		N711191433810S	1	
		606050062005S	FFC 23P 140mm 1mm		N711231433810S	1	
		606050063008S	FFC 11P 125mm 1mm		N71111233810S	1	
		606050064001S	FFC 15P 125mm 1mm		N711151233810S	1	
		606050065004S	FFC 14P 125mm 1mm		N711141233810S	1	
		606050066007S	FFC 12P 125mm 1mm		N711121233810S	1	
		606050068003S	FFC 25P 185mm 1mm		N711251833810S	1	
		606050069006S	FFC 27P 370mm 1mm		N711273733810S	1	
		963606007950S	FFC 7P 100mm 1mm		N711071033810S	1	
		963606007960S	FFC 13P 380mm 1.25mm	EU, EC, E3	N712133833810S	1	
		963606007970S	FFC 6P 210mm 1mm		N711062133810S	1	
		963606007980S	FFC 15P 210mm 1.25mm	E2	N712152133810S	1	

PACKING VIEW 3



PARTS LIST OF PACKING & ACCESSORIES

* Parts for which "nsp" is indicated on this table cannot be supplied.

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

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

EU(AVR-3310) : U.S.A. model	EC(AVR-3310) : Canada model
E2(AVR-3310) : Europe model	E1C(AVC-3310) : China model
990E3(AVR-990) : U.S.A. & Canada model	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New	
201	nsp	CABINET SHEET		6327040059000S	1	
202	nsp	CUSHION ASSY		6230212694000S	1 *	
203	963531005320D	BOX,GIFT	EU, EC	6007211520000S	1 *	
203	963531007470D	BOX,GIFT	990E3	6007211520010S	1 *	
203	963531007480D	BOX,GIFT	E2	6007211520020S	1 *	
	203	963531007490D	BOX,GIFT	6007211520030S	1 *	
	204	nsp	CONT.CARD(L)SUB ASSY	1		
	205	nsp	BAR CODE LABEL ASSY	1		
	206	nsp	ENVELOPE	EU, EC, 990E3, E1C	1	
	206	nsp	ENVELOPE	E2	2	
	207	963541005330D	INST. MANUAL(EU)	EU, EC	5707000002570S	1 *
	208	963541005420D	INST. MANUAL (EC)	EC	5707000002640S	1 *
	208	963541007520D	INST. MANUAL (990)	990E3	5707000002580S	1 *
	208	963541007550D	INST. MANUAL (E1C)	E1C	5707000002610S	1 *
	208	963541007570D	INST. MANUAL (E2-3)	E2(3)	5707000002590S	1 *
	208A	963541007940D	INST. MANUAL (E2-4)	E2(4)	5707000002930S	1 *
	209	00D3950033001	FM ANTENNA (DIPOLE)	EU, EC, 990E3	1	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	209	00D3950029002	FM ANT ASSY(F/ETRO)	E2		1	
	210	116010001004S	AM LOOP ANTENNA(HD-10)	EU, EC, 990E3		1	
	210	00D2310089007	AM LOOP ANTENNA	E2		1	
	211	-	BATTERY(AAAX2)	EU, EC, E2, E1C for RC-1121		1	
	212	-	BATTERY(AAX2)	for RC-1118		1	
	214	nsp	S.S.LIST (EX)			1	
	215	nsp	WARRANTY (HOME)	EU, EC, 990E3		1	
	216	nsp	POLY COVER			1	
▲	217	90M-ZC000470R	CORD ASSY	EU, EC, 990E3	L068125130010S	1	* ▲4
▲	217	90M-ZC000600R	CORD ASSY	E2	L068250160020S	1	* ▲4
▲	217	963611004880S	CORD ASSY	E1C	L068250100050S	1	* ▲4
	218	307010045008D	RC-1121	EU, EC, E2, E1C		1	* ▲2
	219	307010042009D	RC-1118	MAIN		1	*
	220	324010001003D	DM-A409EM			1	
	220A	nsp	POLY BAG ACCESSORY		6330210222000S	1	
	221	963541005360D	GETTING STARTED(33EU)	EU, EC, 990E3	5227000001040S	1	* ▲2
	221	963541007580D	GETTING STARTED(33E2)	E2	5227000001330S	1	* ▲2
	221	963541007590D	GETTING STARTED(33E1C)	E1C	5227000001340S	1	* ▲2
	222	543110064002D	SIRIUS SHEET			1	
	223	00D5139111030	LABEL COLOR	SP	5507020170680S	2	
	224	nsp	BUSHING TERMINAL	E2, E1C	2410040353010S	18	
	225	nsp	LABEL CARTON	E1C		1	* ▲4
	226	nsp	LABEL DATE	E1C	5507000000850S	1	
	228	nsp	MAC ADDRESS SUB ASSY			1	

--MEMO--

NOTE FOR SCHEMATIC DIAGRAM

WARNING:

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

CAUTION:

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

WARNING:

DO NOT return the unit to the customer until the problem is
located and corrected.

NOTICE:

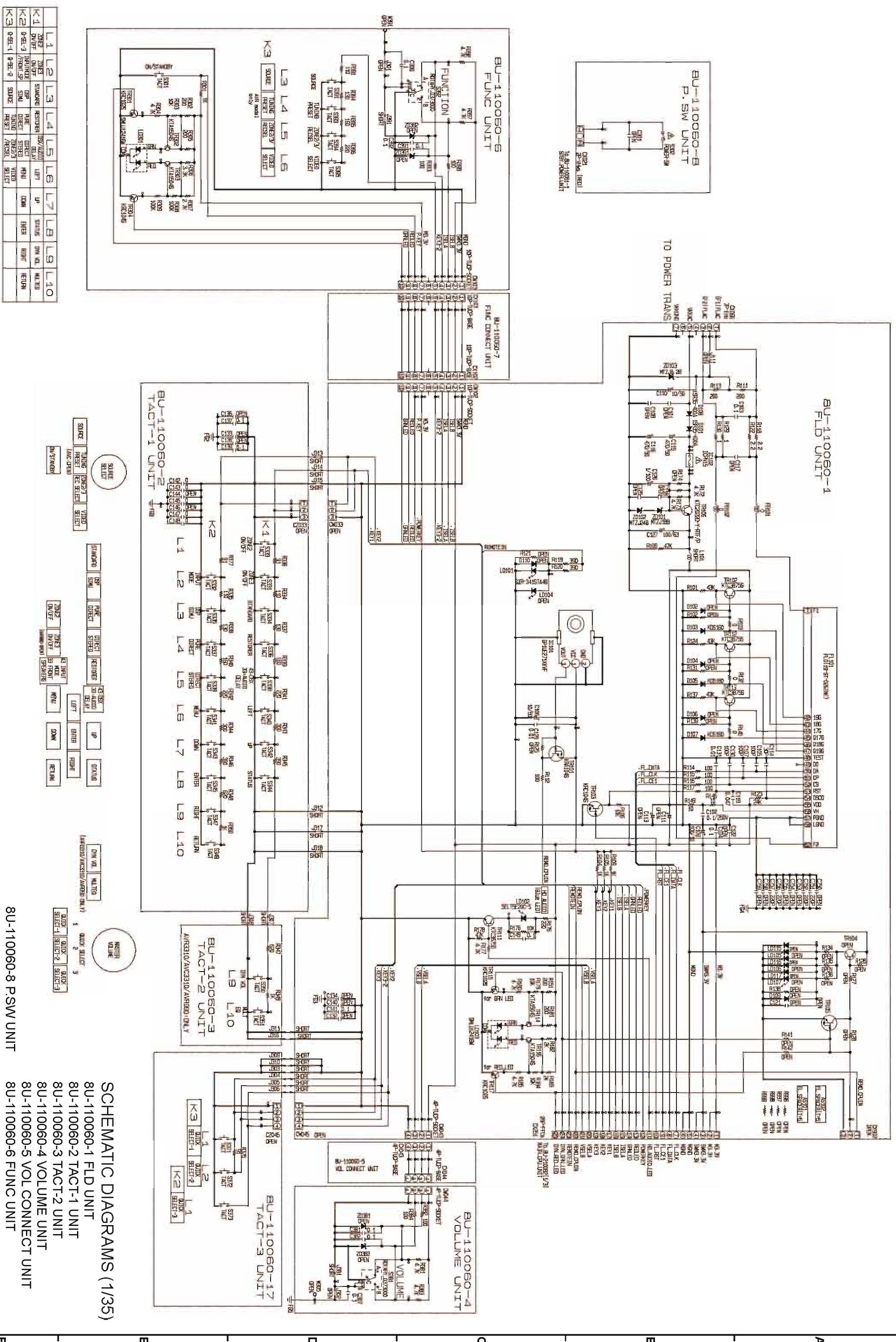
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM
M=1,000,000 OHM

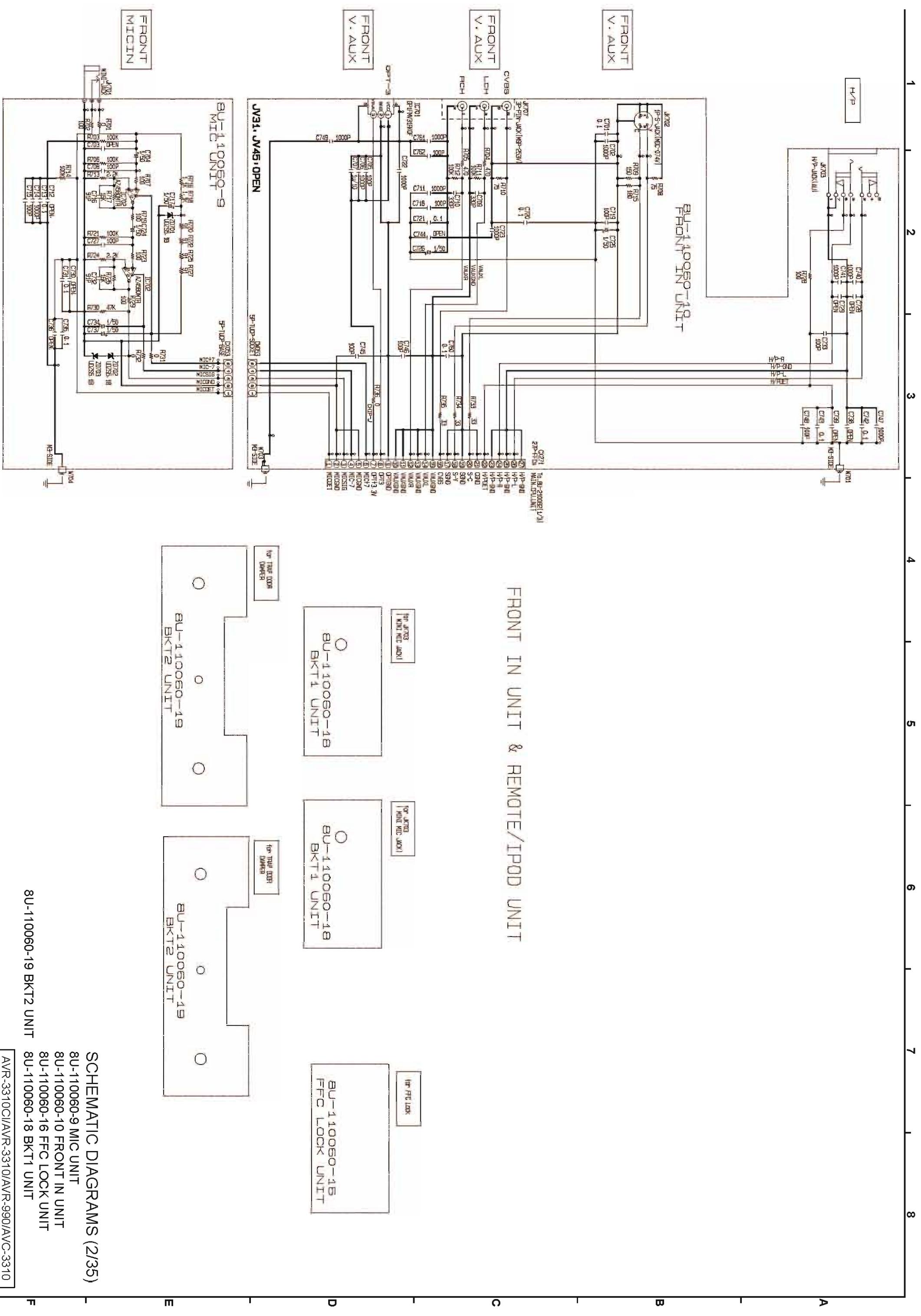
ALL CAPACITANCE VALUES IN MICRO FARAD.

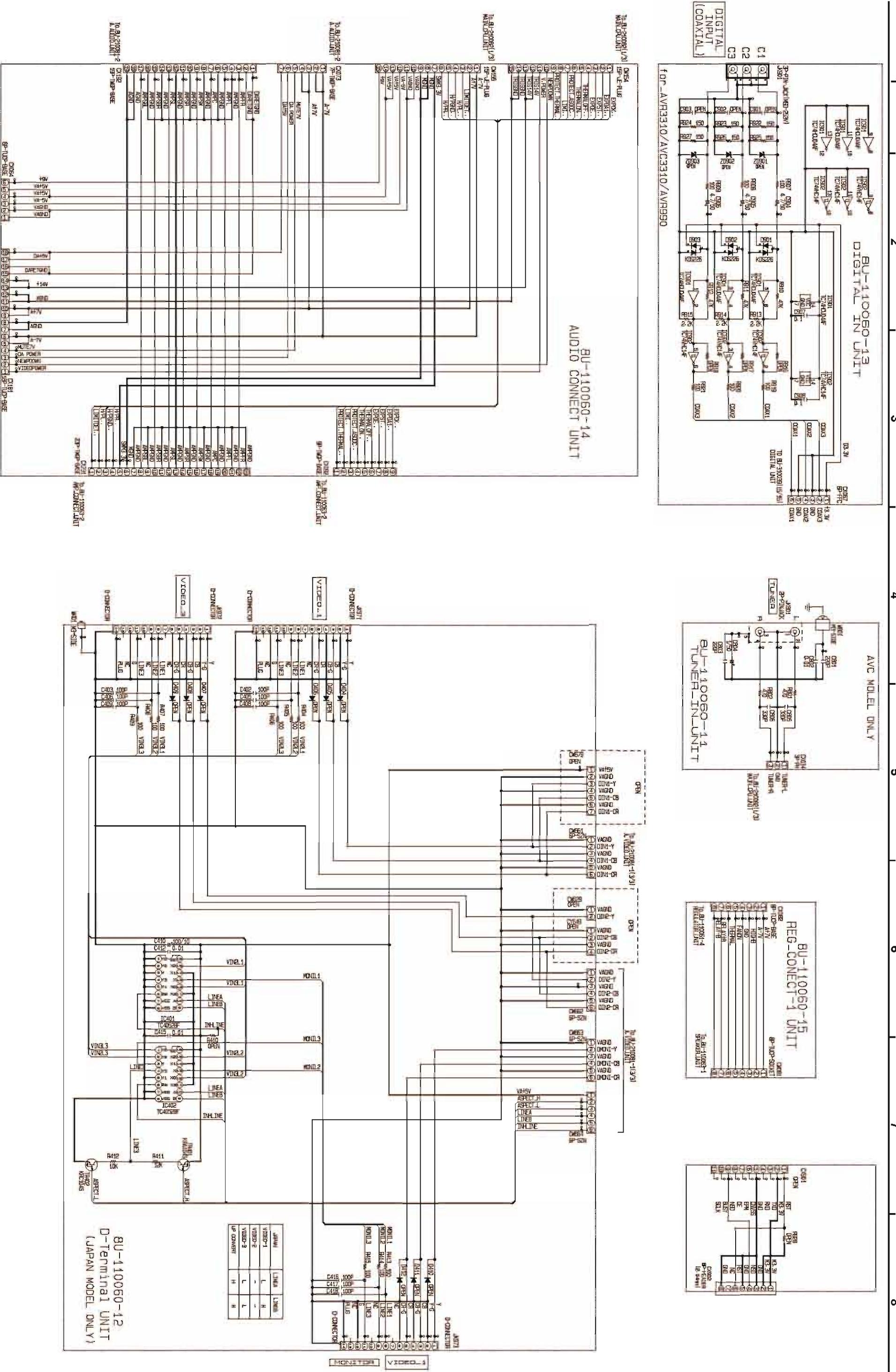
P=MICRO-MICRO FARAD

EACH VOLTAGE AND CURRENT ARE MEASURED AT
NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE
WITHOUT PRIOR NOTICE.

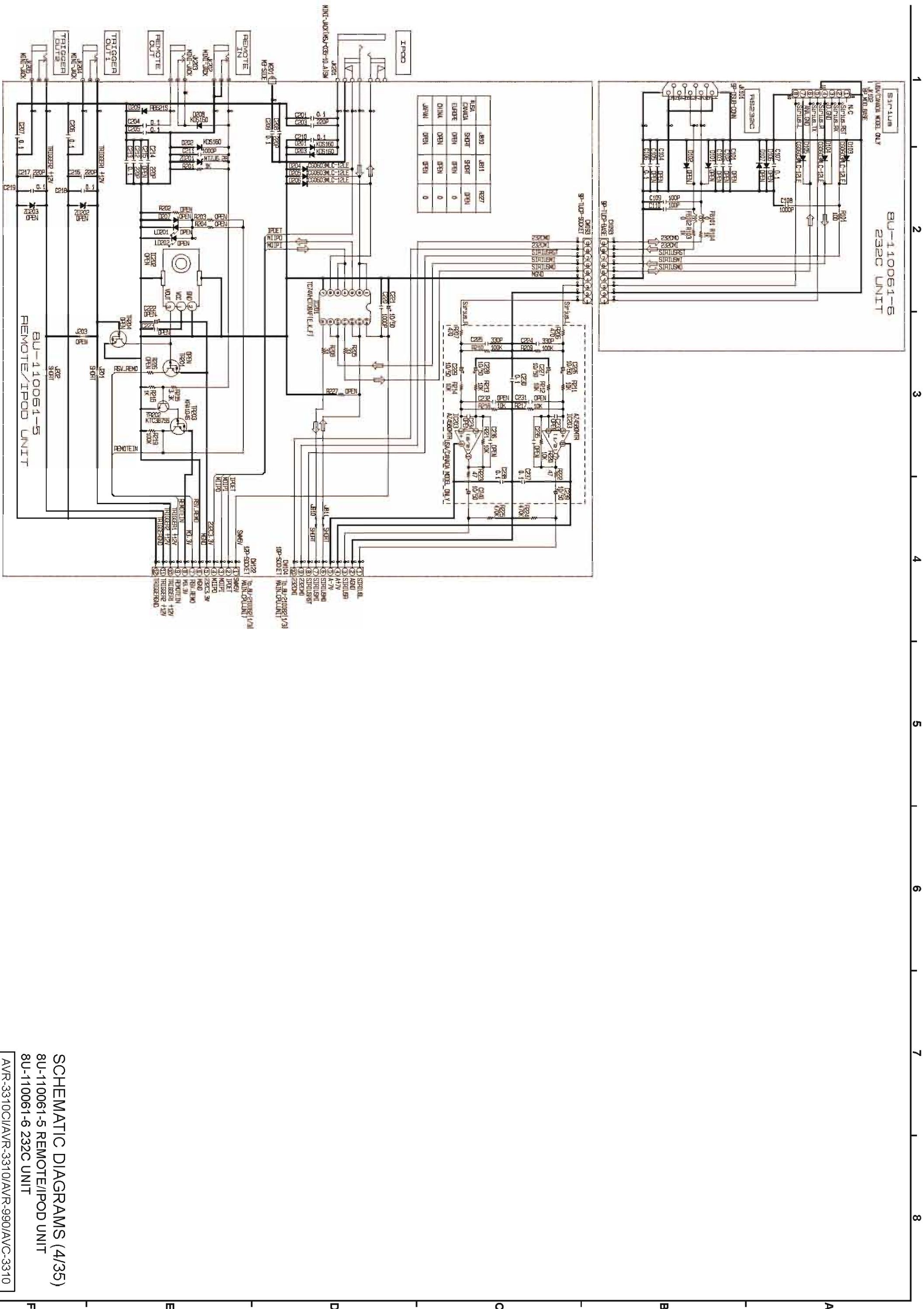


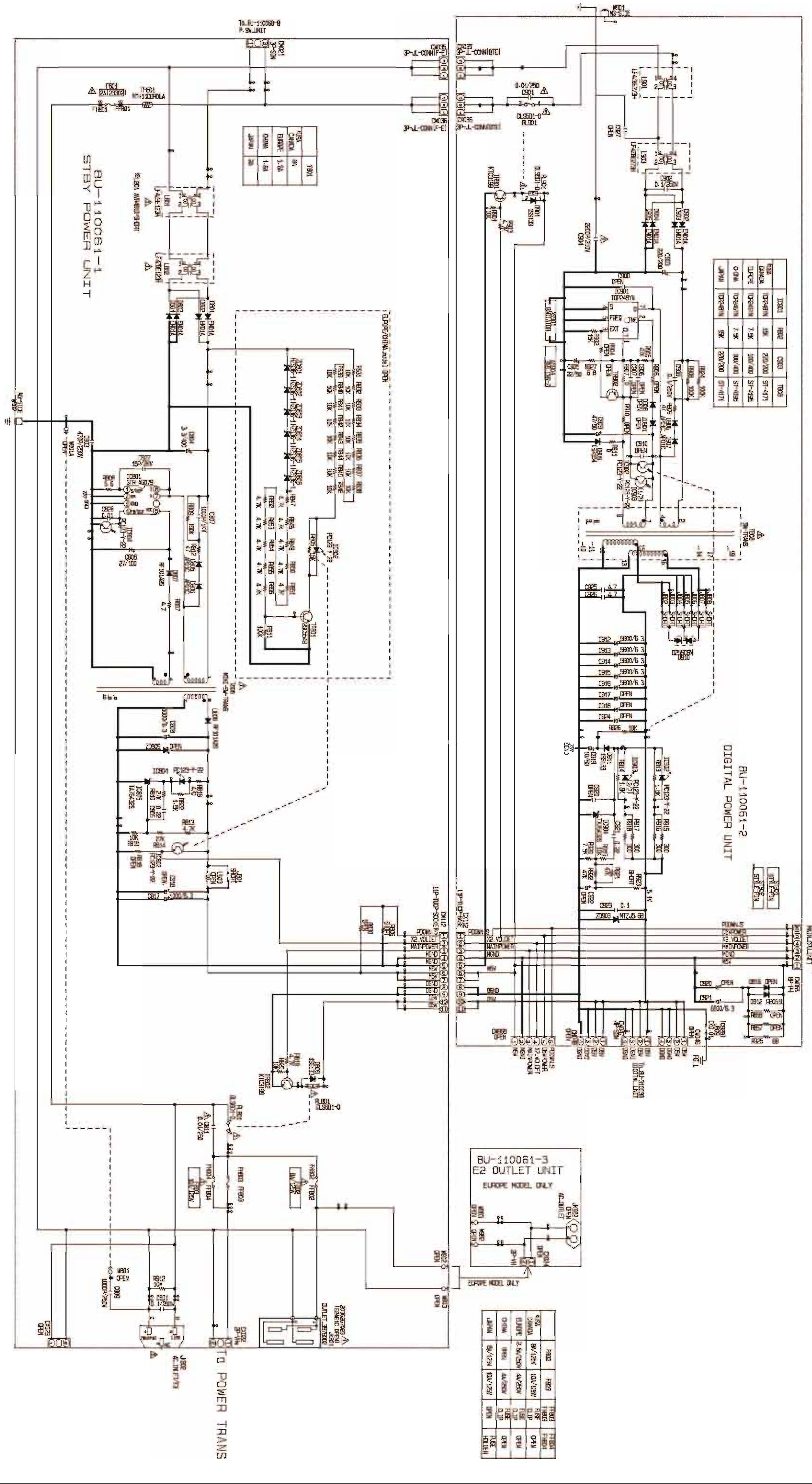


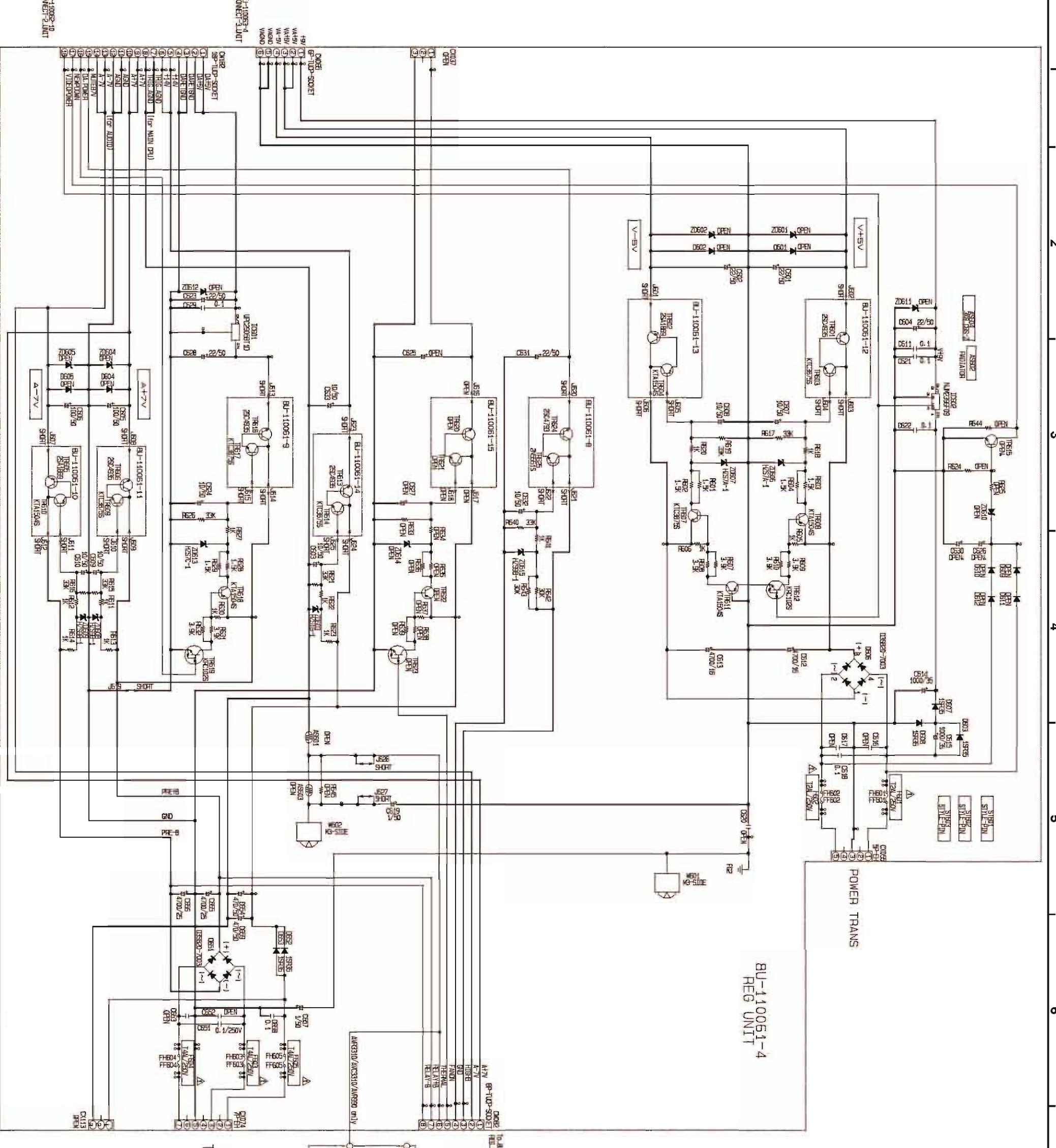


SCHEMATIC DIAGRAMS (3/35)
8U-110060-11 TUNER IN UNIT for AVR-3310
8U-110060-12 D-TERMINAL UNIT for Japan
8U-110060-15 REG CONNECT-1 UNIT
AVR-3310C/AVR-3310/AVR-990/AVC-3310

8U-110060-13 DIGITAL IN UNIT
8U-110060-14 AUDIO CONNECT UNIT
8U-110060-15 REG CONNECT-1 UNIT

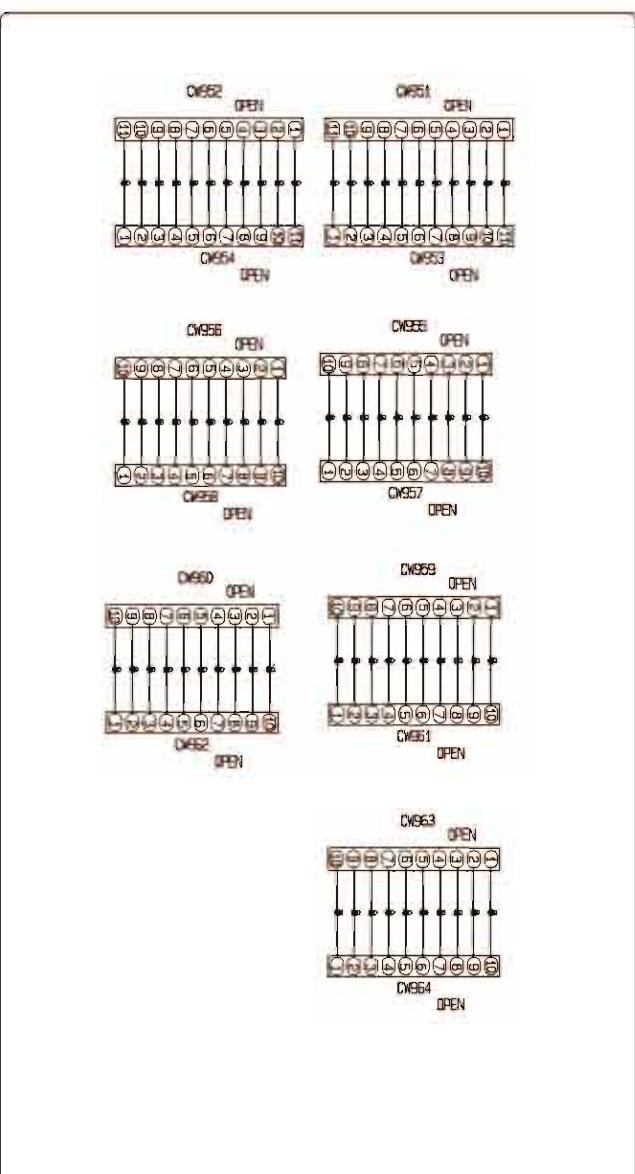
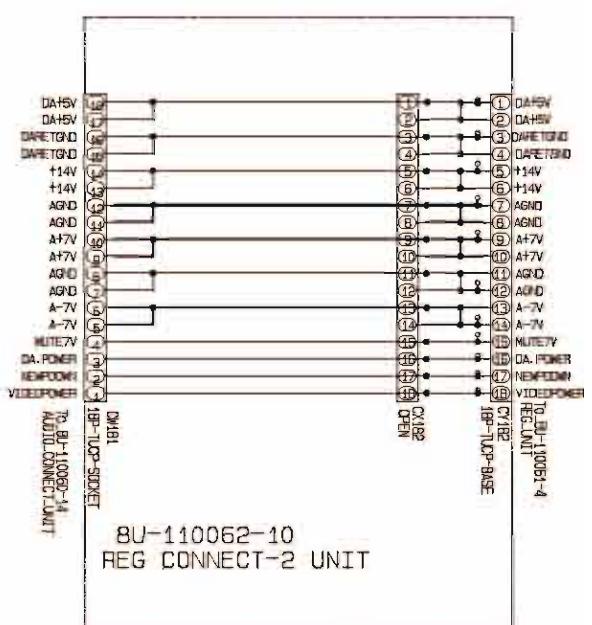
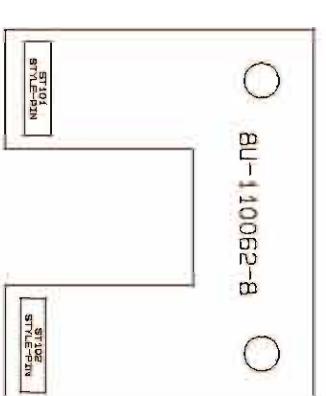
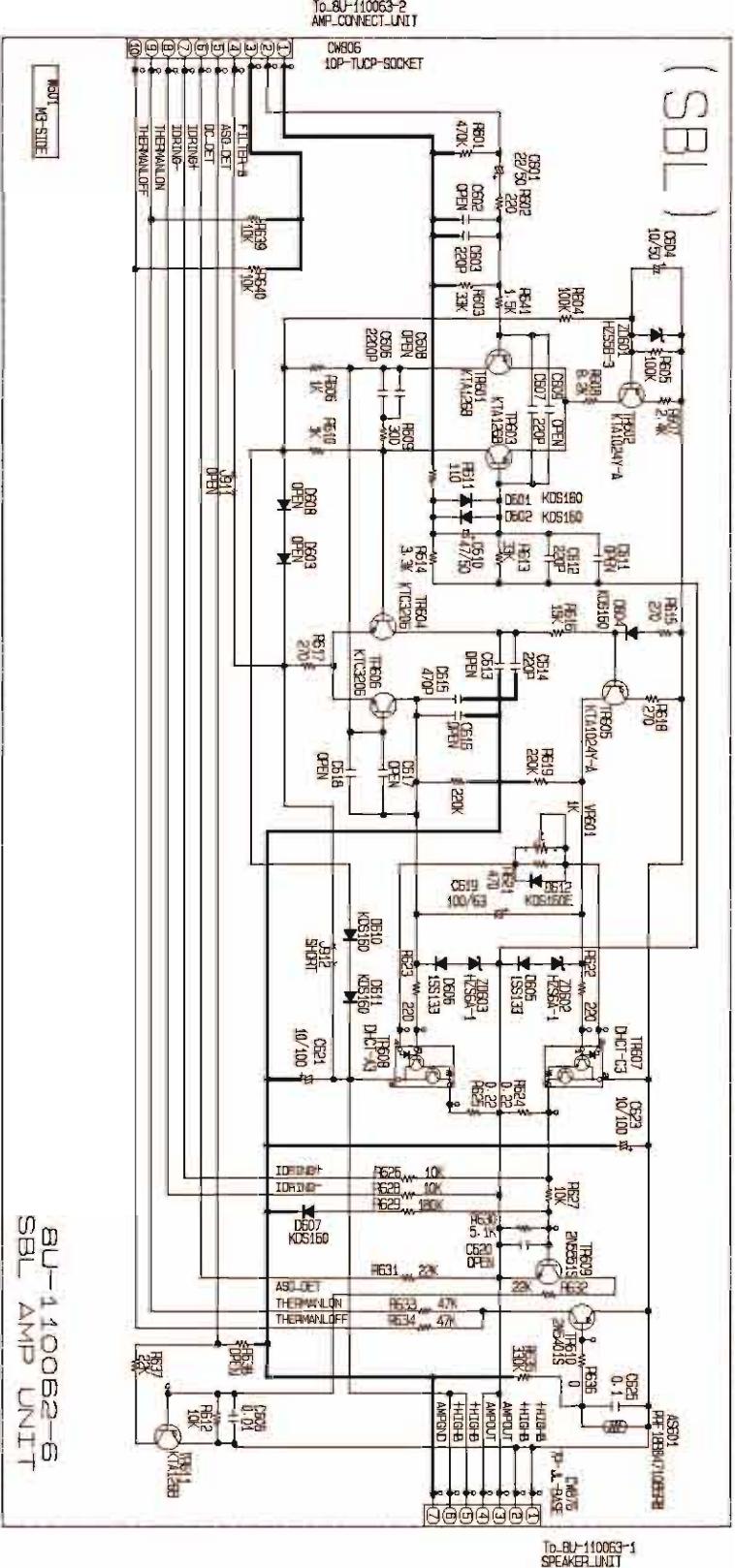
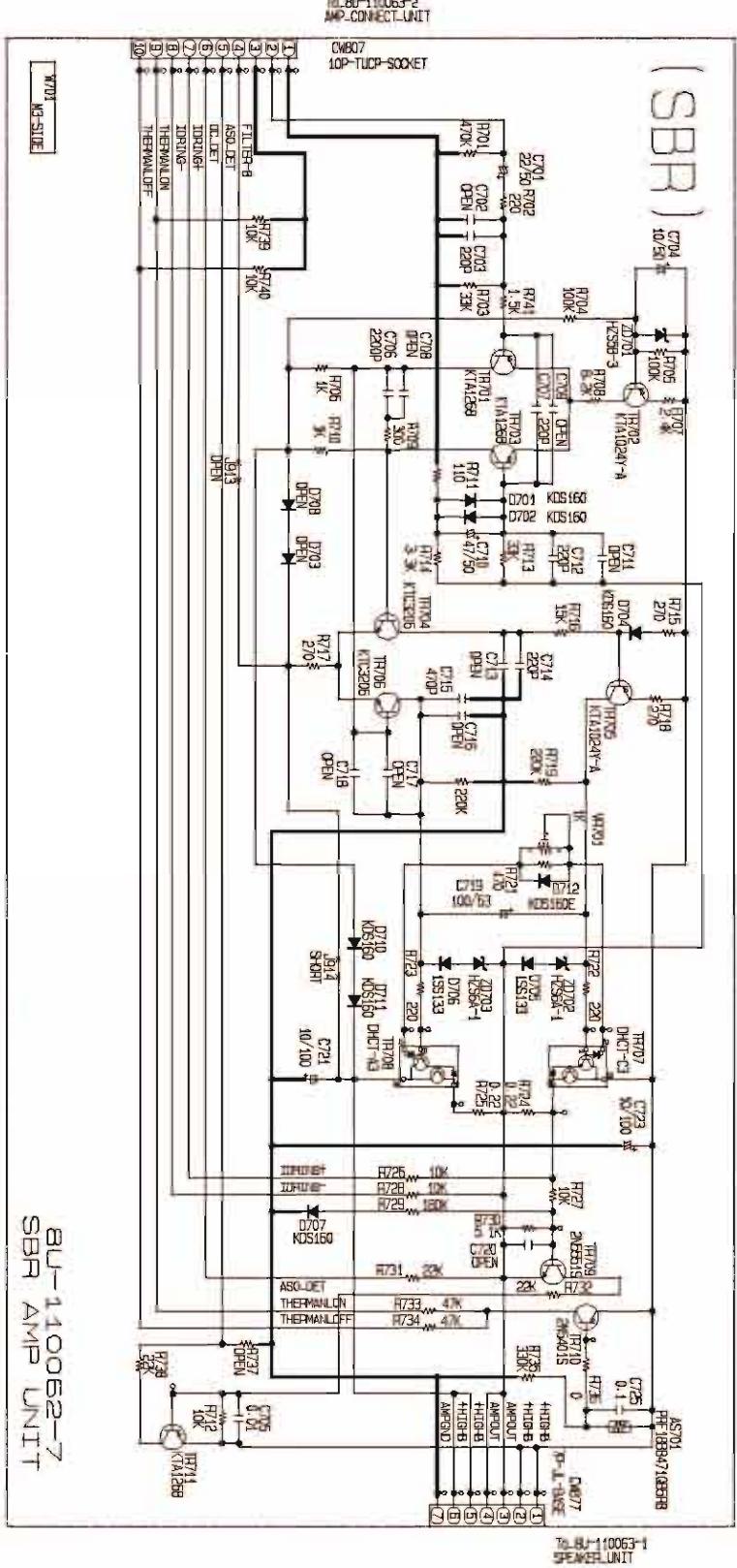
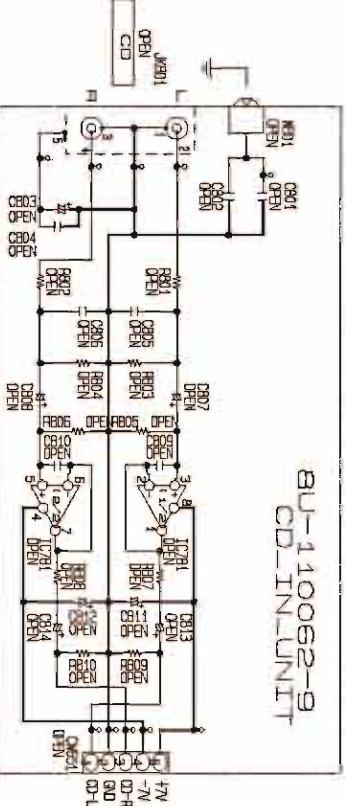






SCHEMATIC DIAGRAMS (6/35) 8U-110061-4 REG UNIT

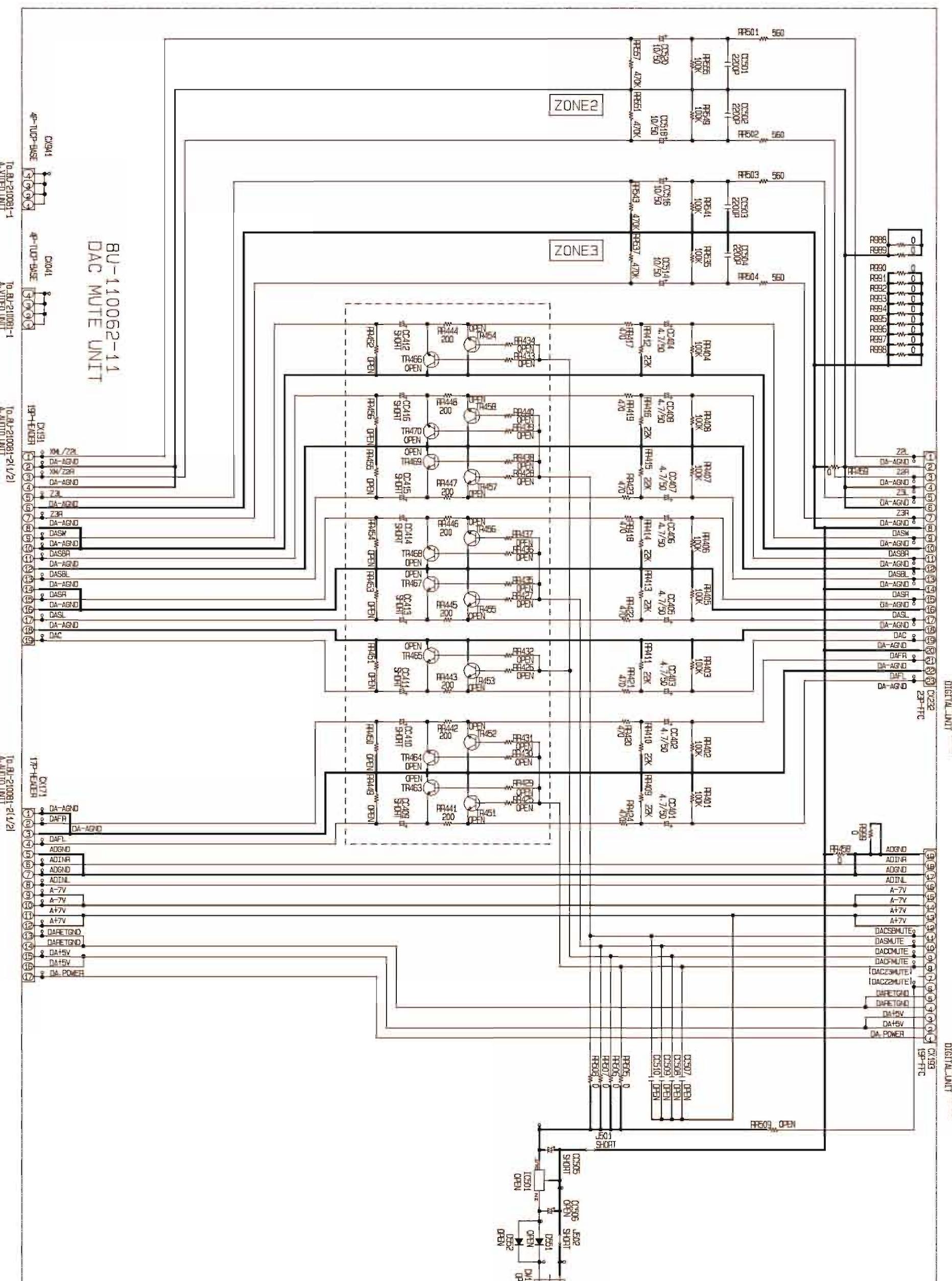


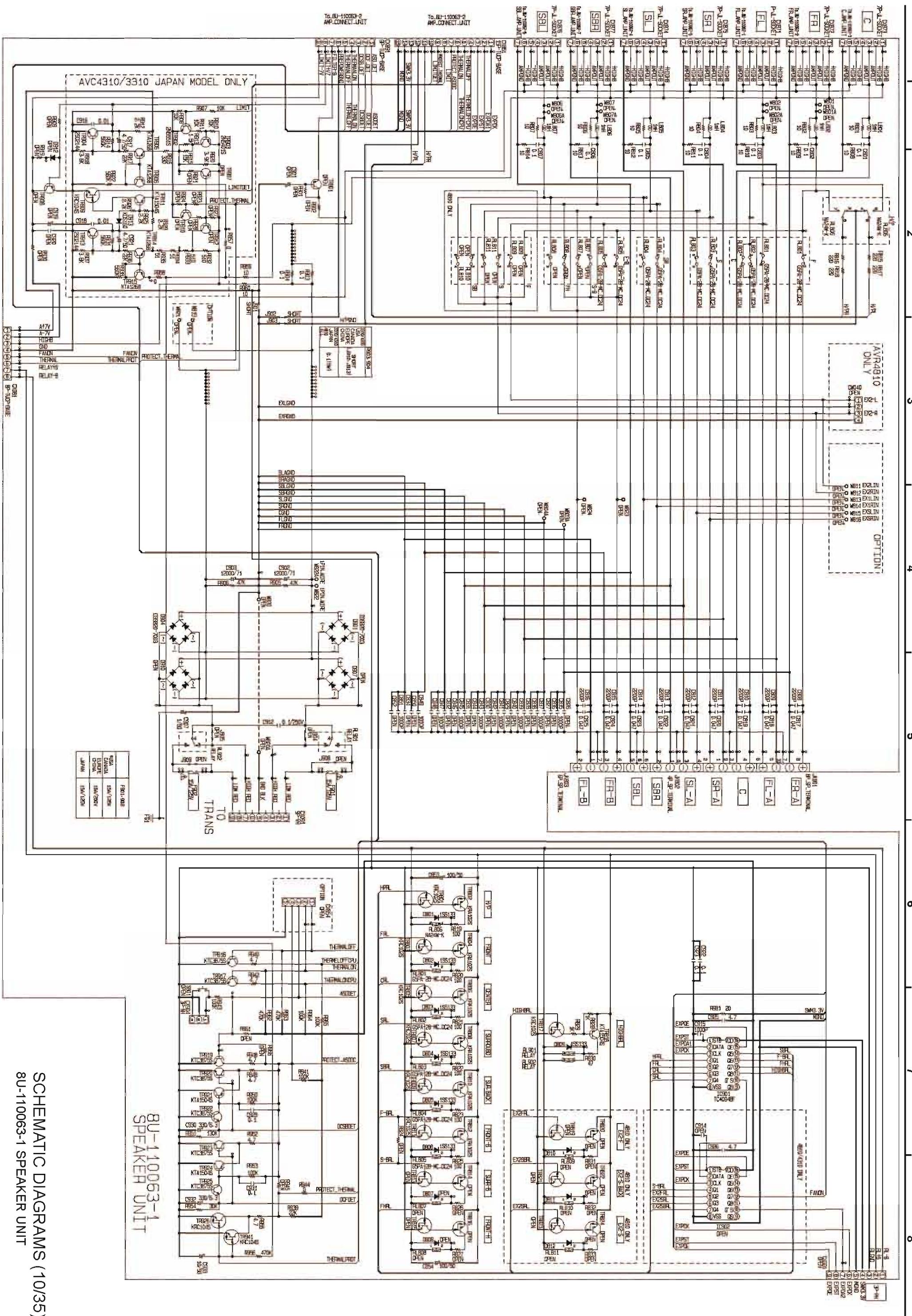


SCHEMATIC DIAGRAMS (8/35)

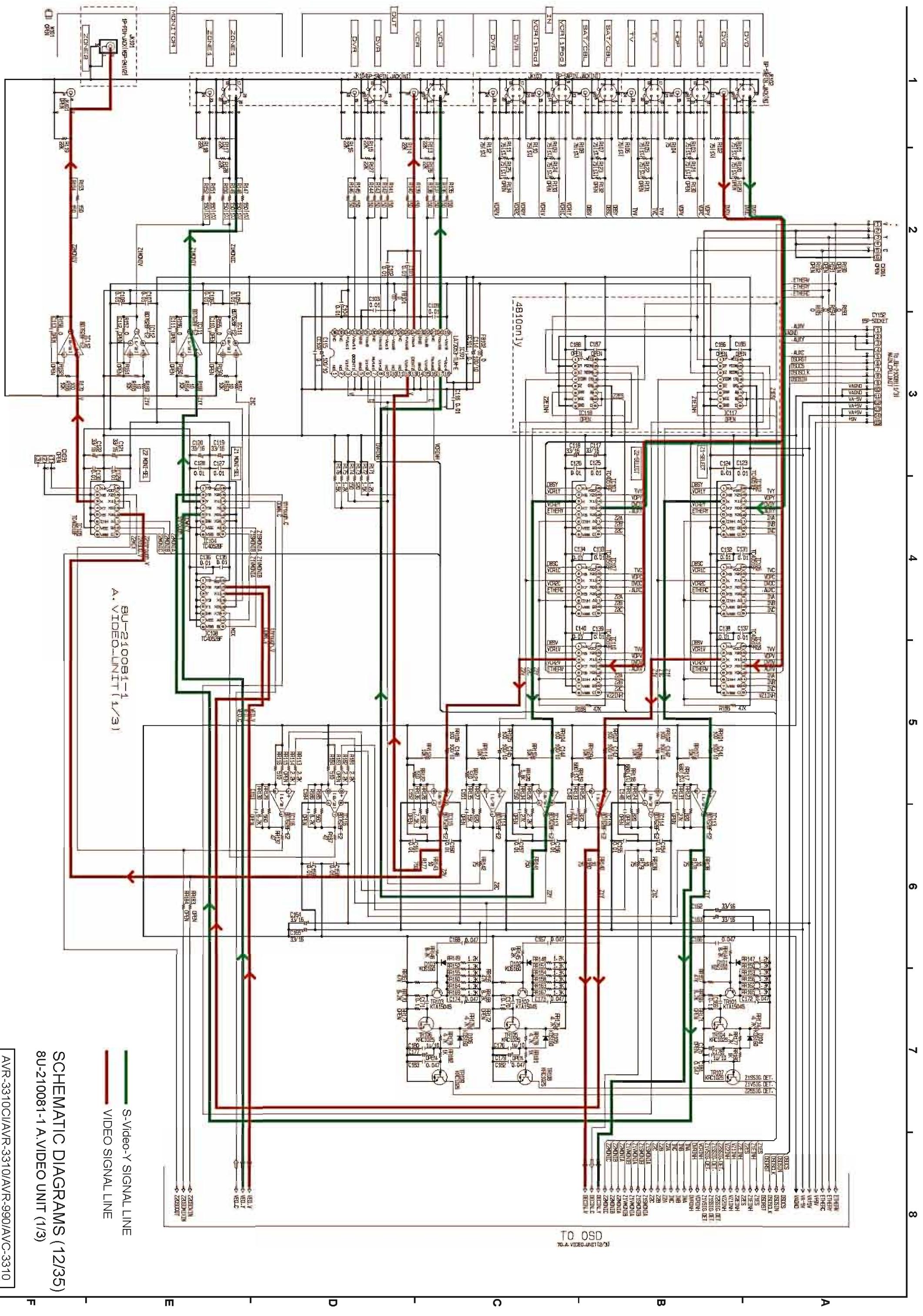
8U-110062-6 SBL AMP UNIT
8U-110062-7 SBR AMP UNIT
8U-110062-8 FFC HOLD UNIT
8U-110062-9 CD IN UNIT
8U-110062-10 REG CONNECT-2 UNIT

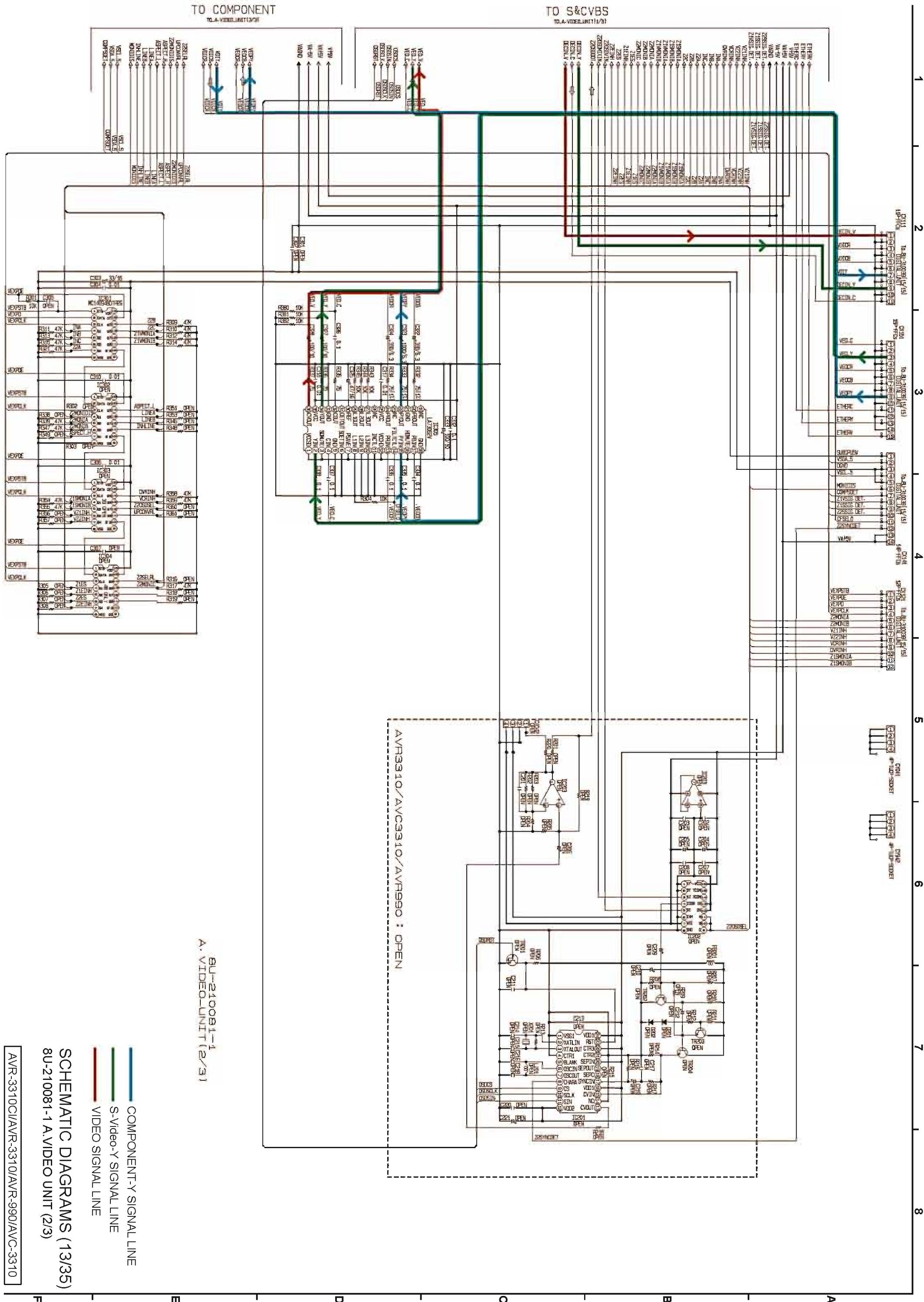
AVR-3310CC/AVR-3310/AVR-990/AVC-3310

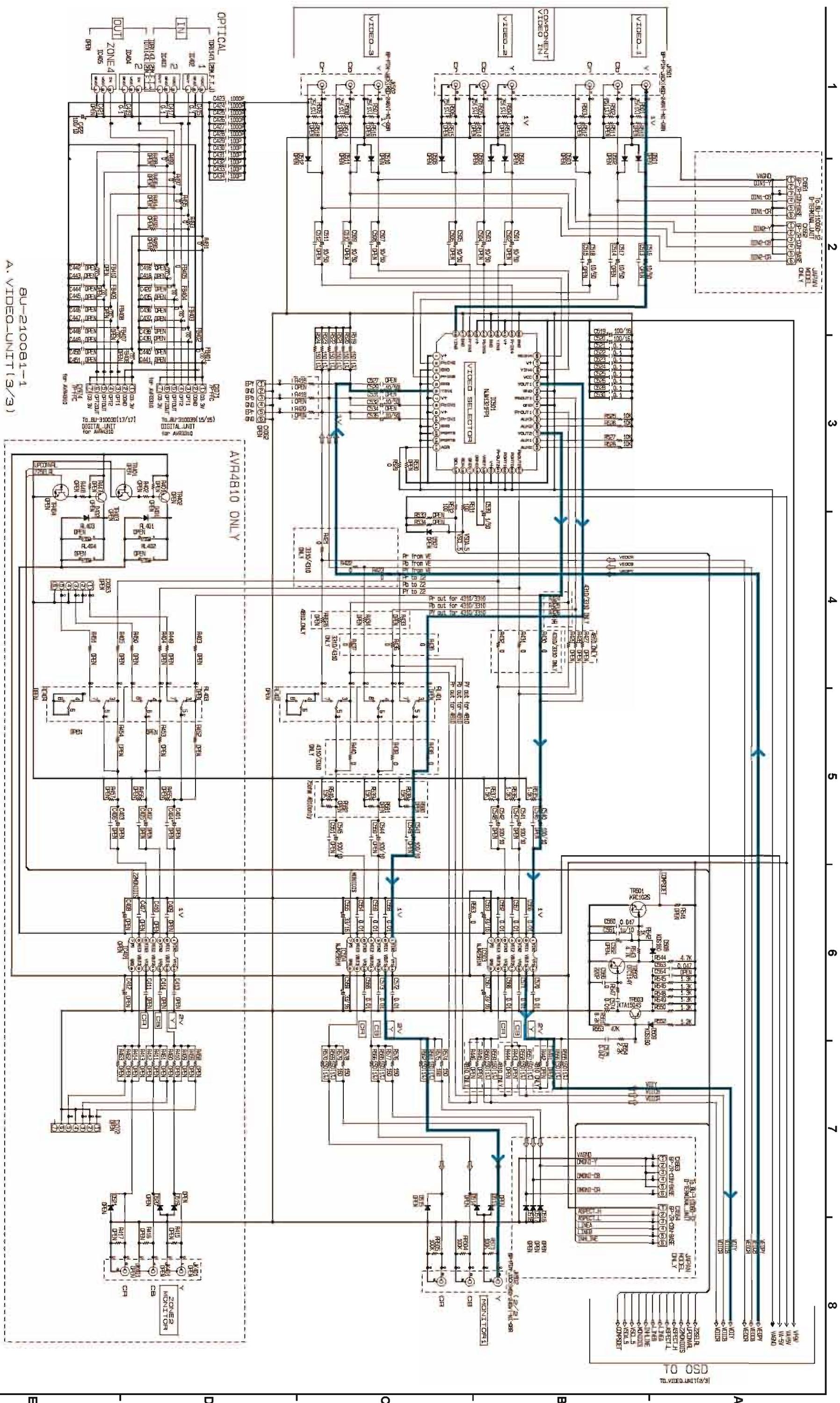




**SCHEMATIC DIAGRAMS (10/35)
8U-110063-1 SPEAKER UNIT**

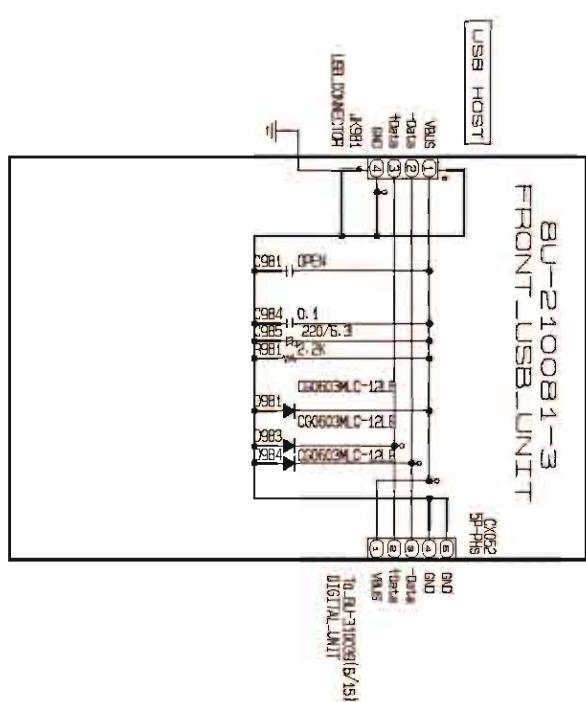






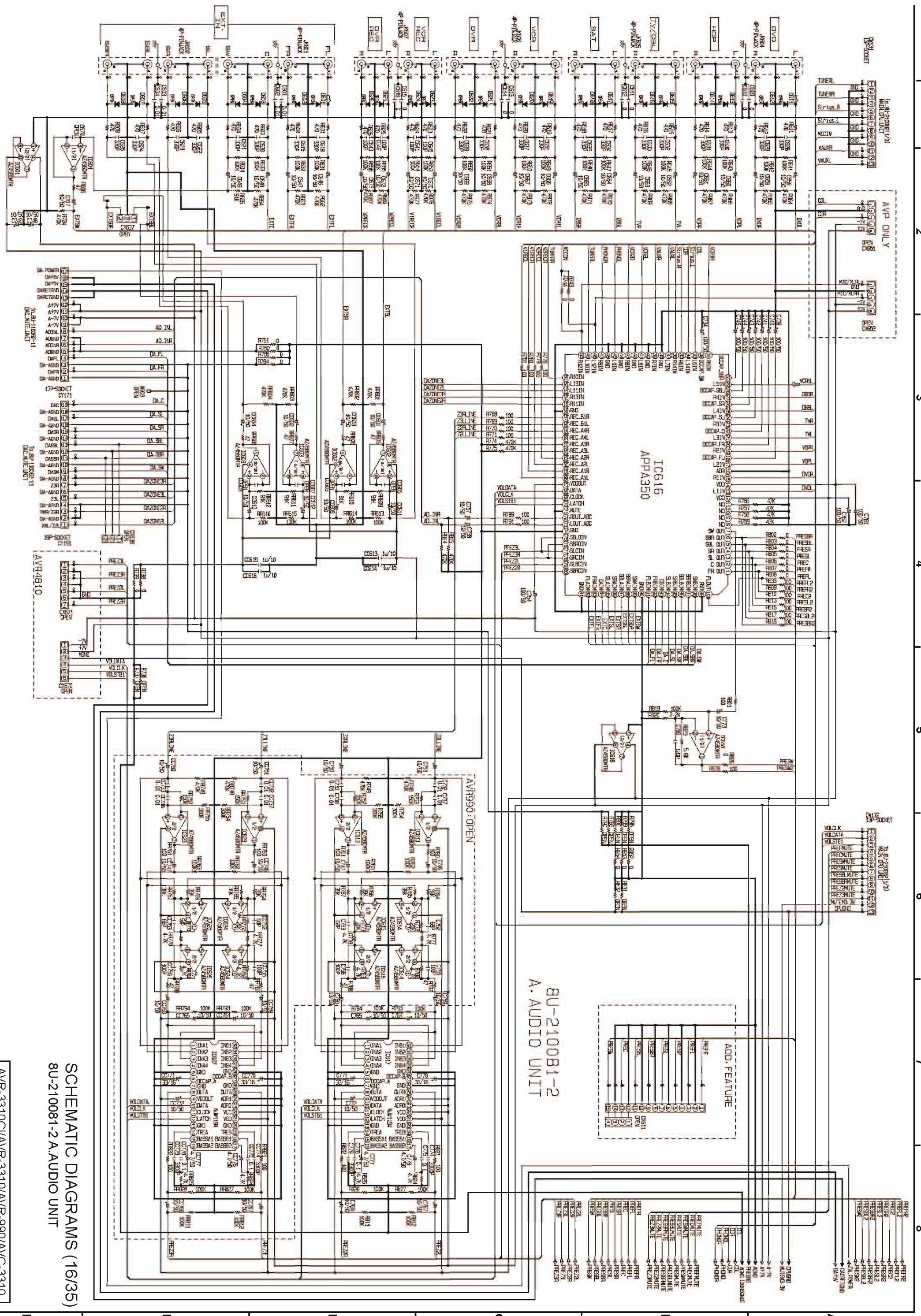
COMPONENT-Y SIGNAL LINE

SCHEMATIC DIAGRAMS (14/35) 8U-210081-1 A. VIDEO UNIT (3/3)

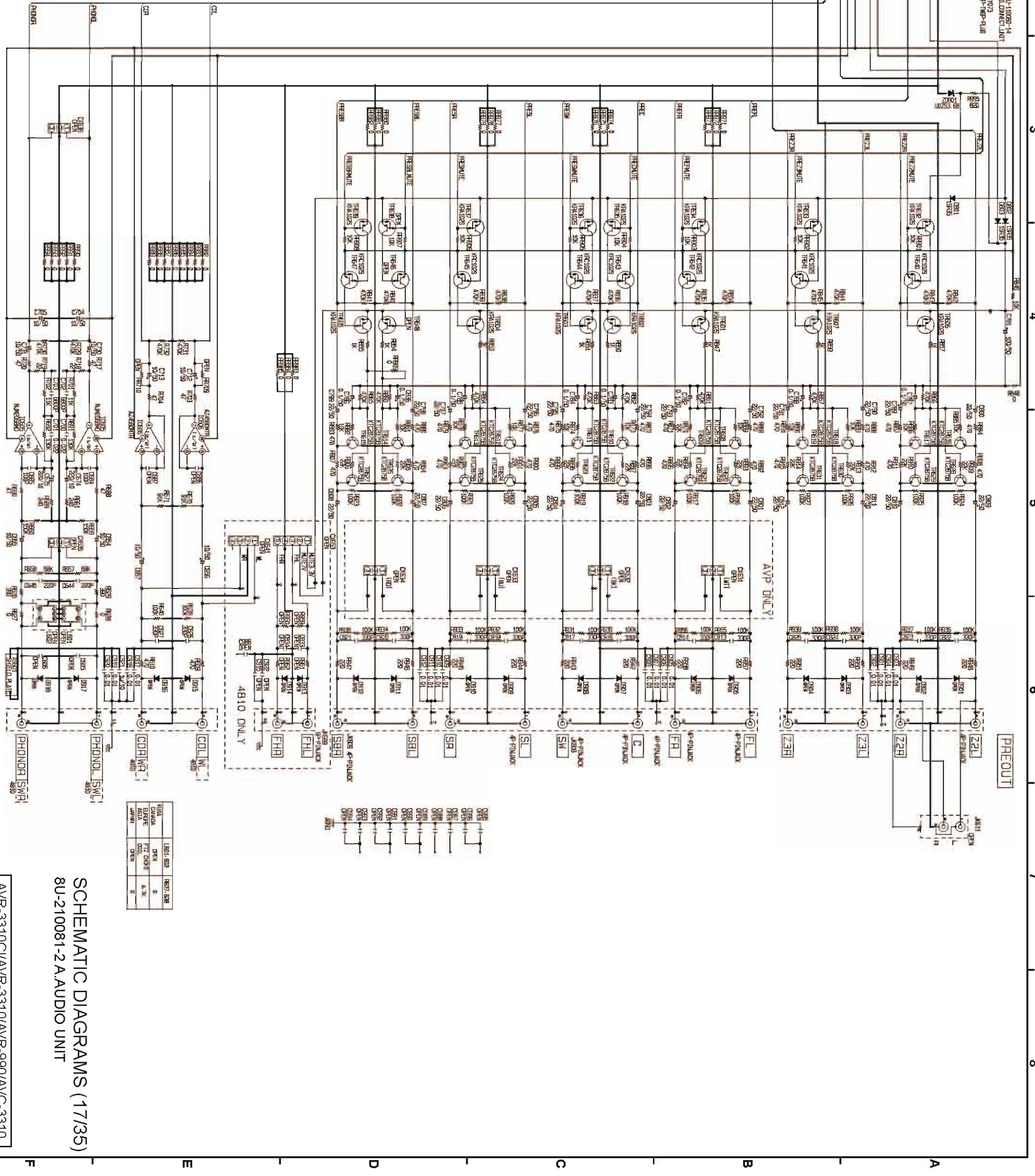


SCHEMATIC DIAGRAMS (15/35)
8U-210081-3 FRONT USB UNIT

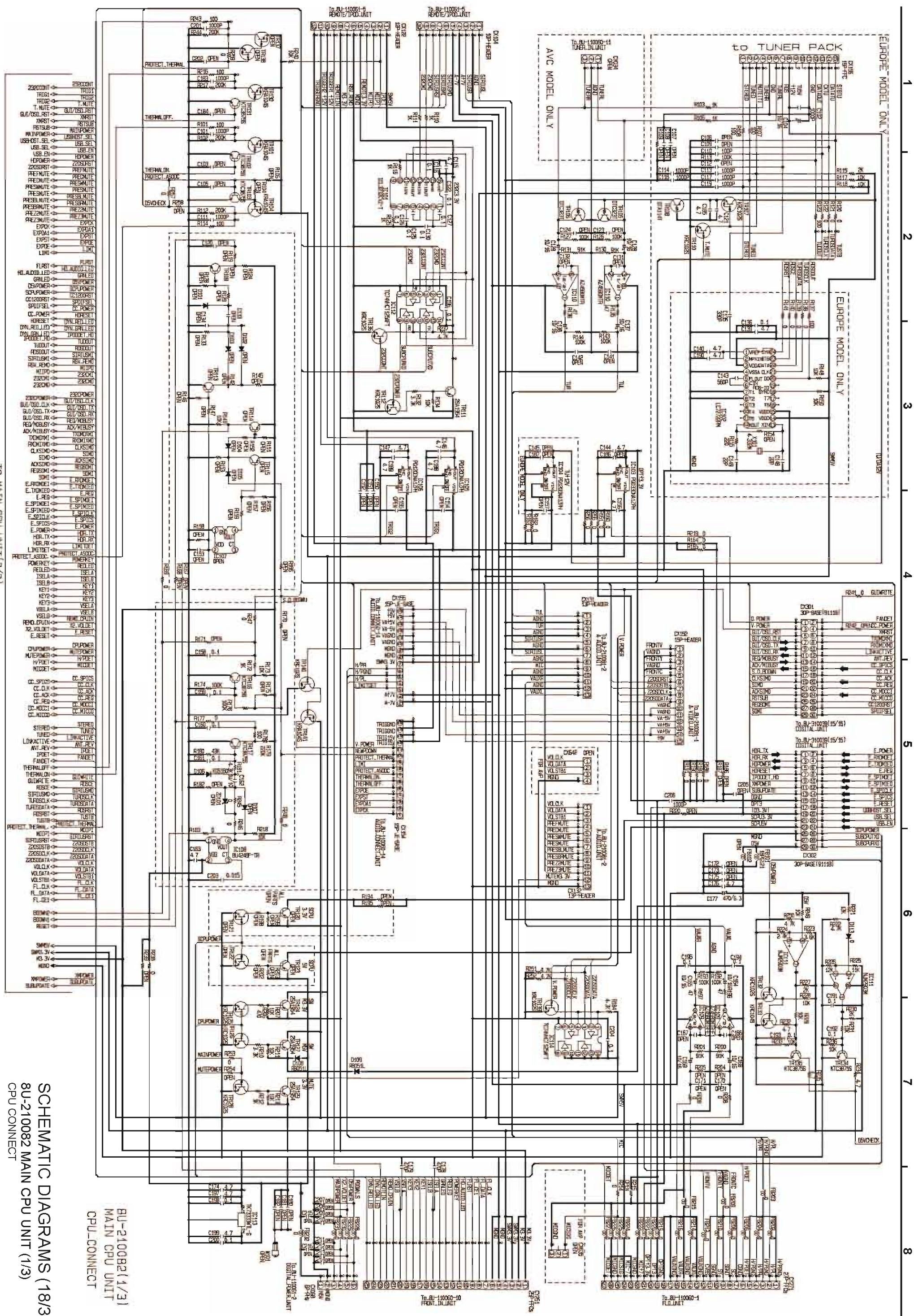
AVR-3310C/AVR-3310/AVR-990/AVC-3310



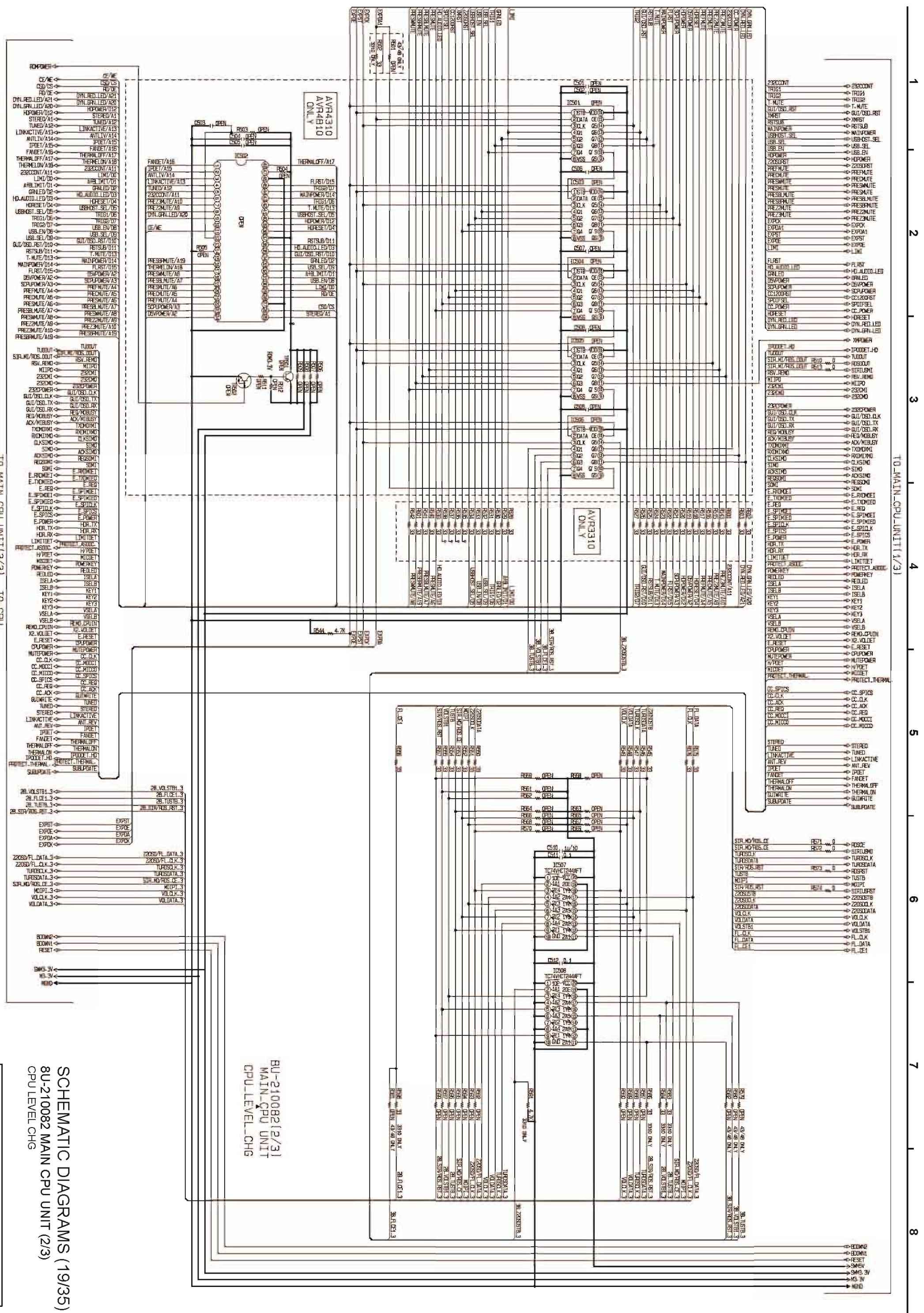
SCHEMATIC DIAGRAMS (16/35) 8JL-210081-2 AAUDIO UNIT



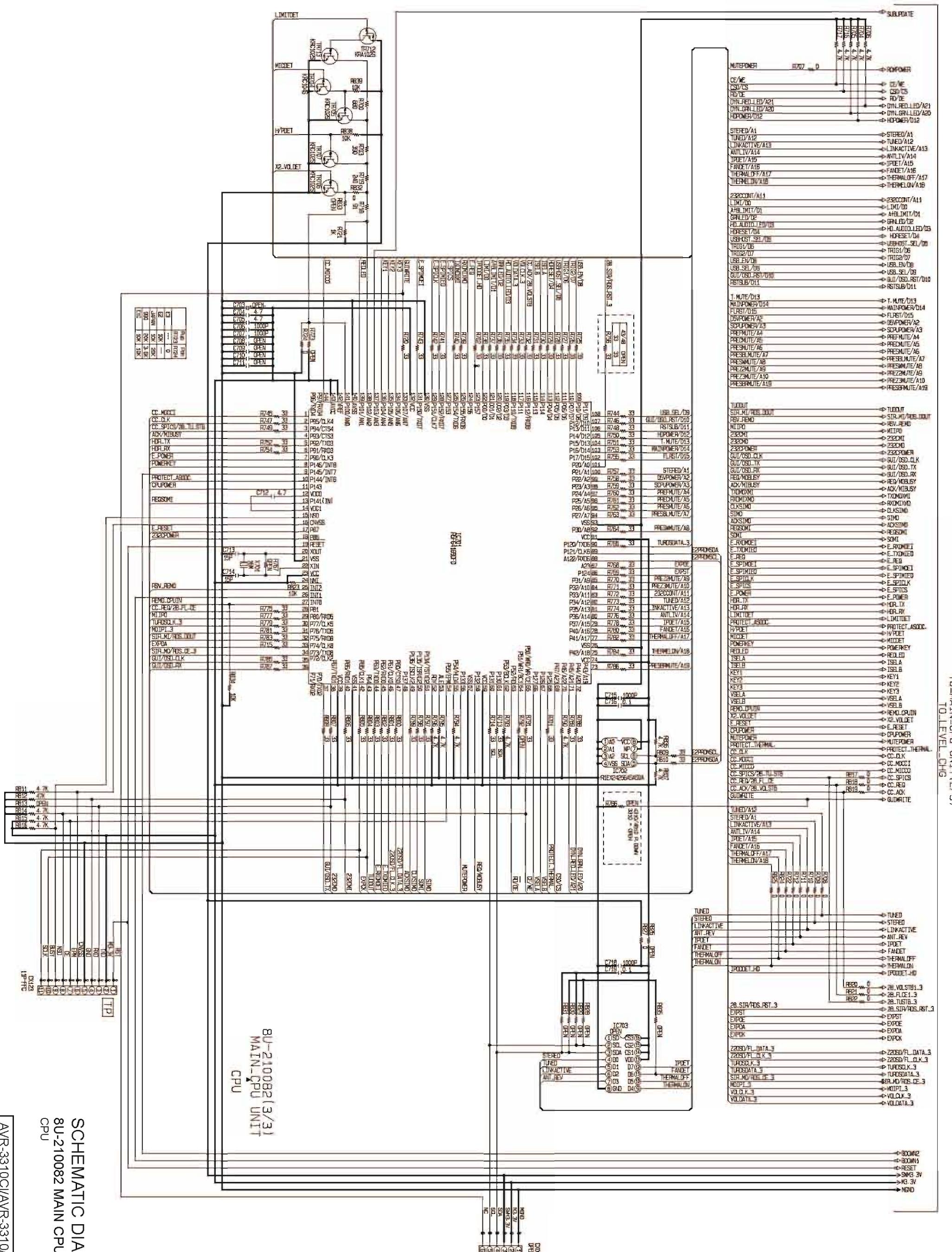
SCHEMATIC DIAGRAMS (17/35)

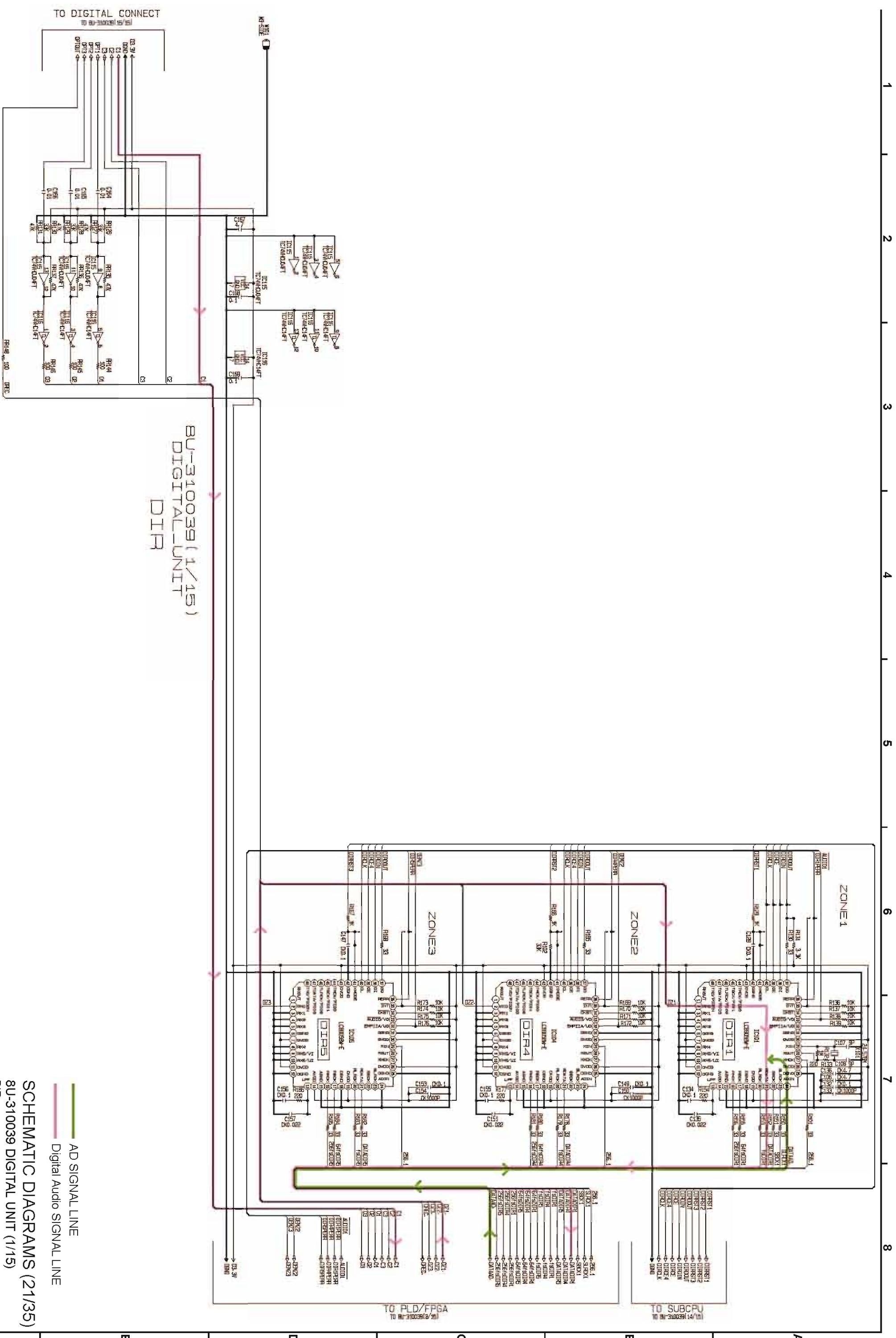


SCHMATIC DIAGRAMS (18/35) 8U-210082 MAIN CPU UNIT (1/3) CPU CONNECT



TO-MAIN_CPU UNIT(2/3)
TO_LEVEL_CHG



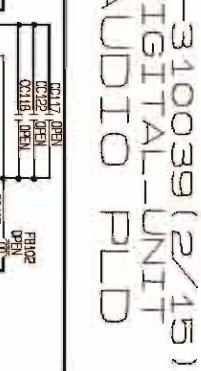
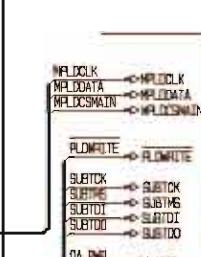
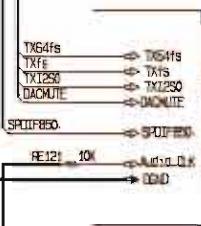


1 2 3 4 5 6 7 8

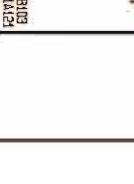
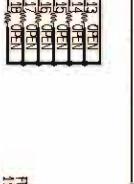
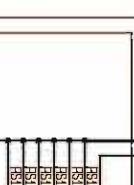
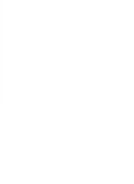
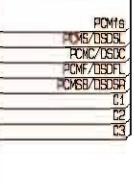
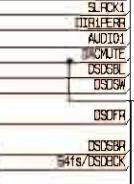
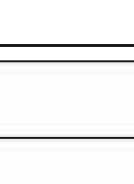
TO SUB CPU TO BU-310039(2/15)

BU-310039(2/15) DIGITAL-UNIT AUDIO PLD

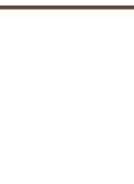
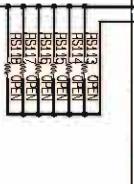
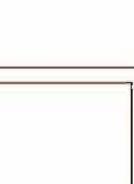
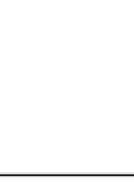
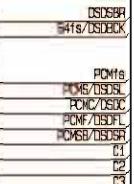
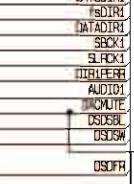
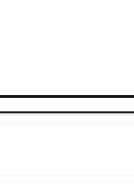
MPDCLK	<--> MPDCLK
MPDDATA	<--> MPDDATA
MPDSMPLN	<--> MPDSMPLN
PLDWRITE	<--> PLDWRITE
SUBTCK	<--> SUBTCK
SUBLMS	<--> SUBLMS
SUBLTD	<--> SUBLTD
SUBLDD	<--> SUBLDD
DA_PWD	<--> DA_PWD



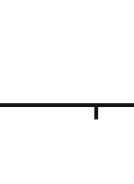
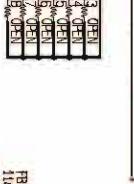
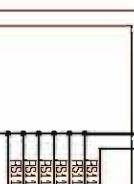
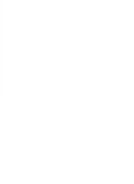
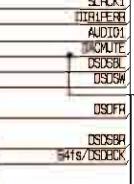
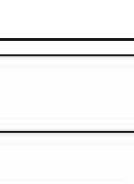
TO HDMI TX
TO BU-310039(2/15)



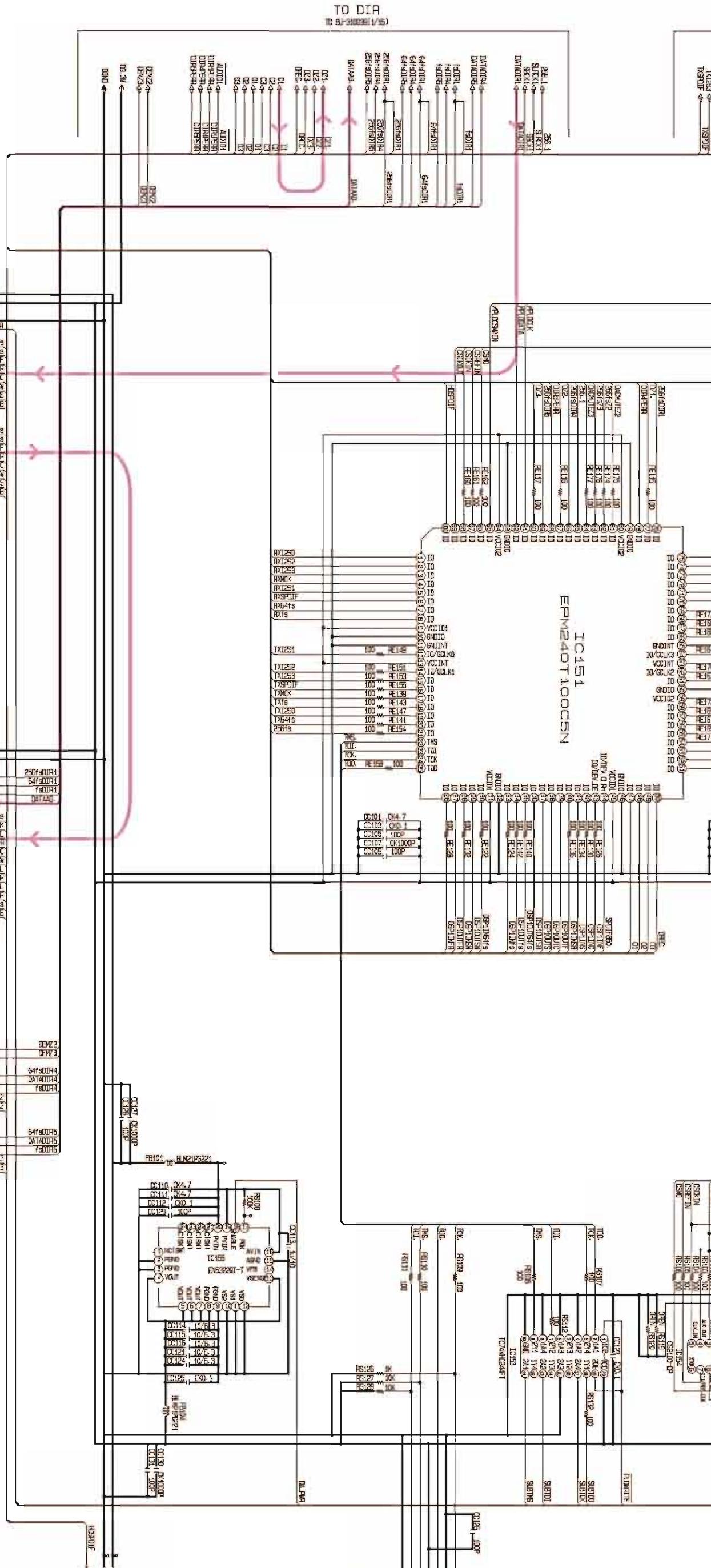
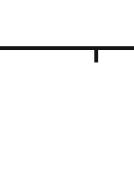
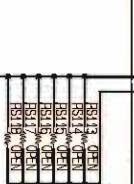
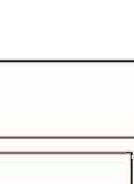
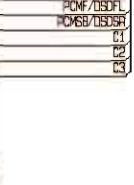
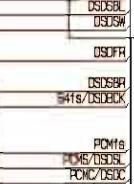
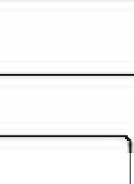
TO DSI
TO BU-310039(2/15)



TO ZONE DAC
TO BU-310039(2/15)



TO DIGITAL CONNECT
TO BU-310039(2/15)

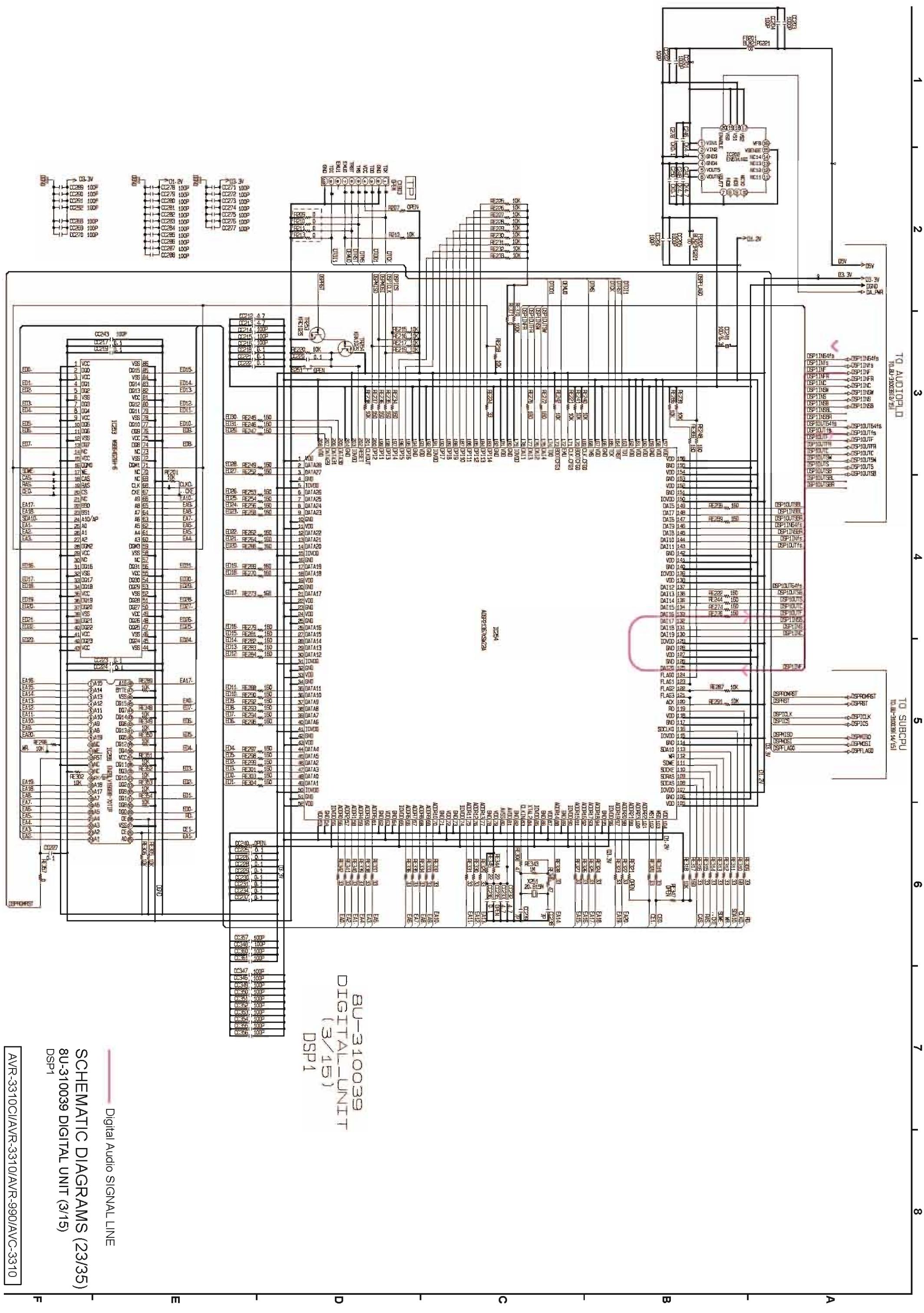


Digital Audio SIGNAL LINE

SCHEMATIC DIAGRAMS (22/35)

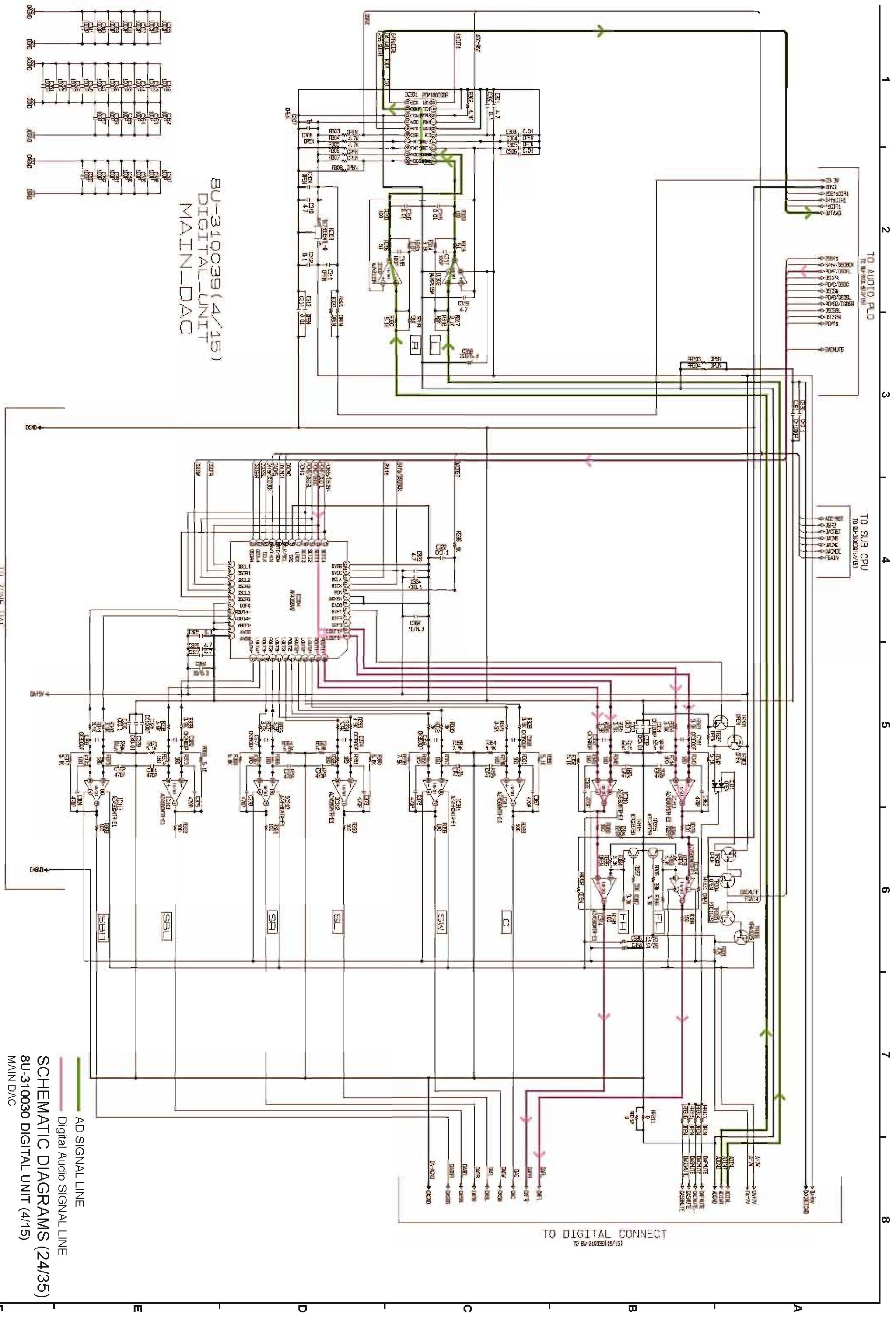
8U-310039 DIGITAL UNIT (2/15)
AUDIO PLD

AVR-3310C/AVR-3310/AVR-990/AVC-3310



Digital Audio SIGNAL LINE

SCHMATIC DIAGRAMS (23/35)
8U-310039 DIGITAL UNIT (3/15)
DSP1

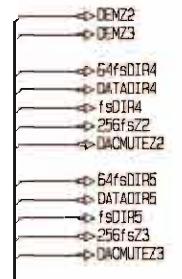


SCHEMATIC DIAGRAMS (24/35)
8U-310030 DIGITAL UNIT (4/15)
MAIN DAC

Digital Audio SIGNAL LINE

AD SIGNAL LINE

TO AUDIO PLD
TO BU-310039[2/15]



2

3

4

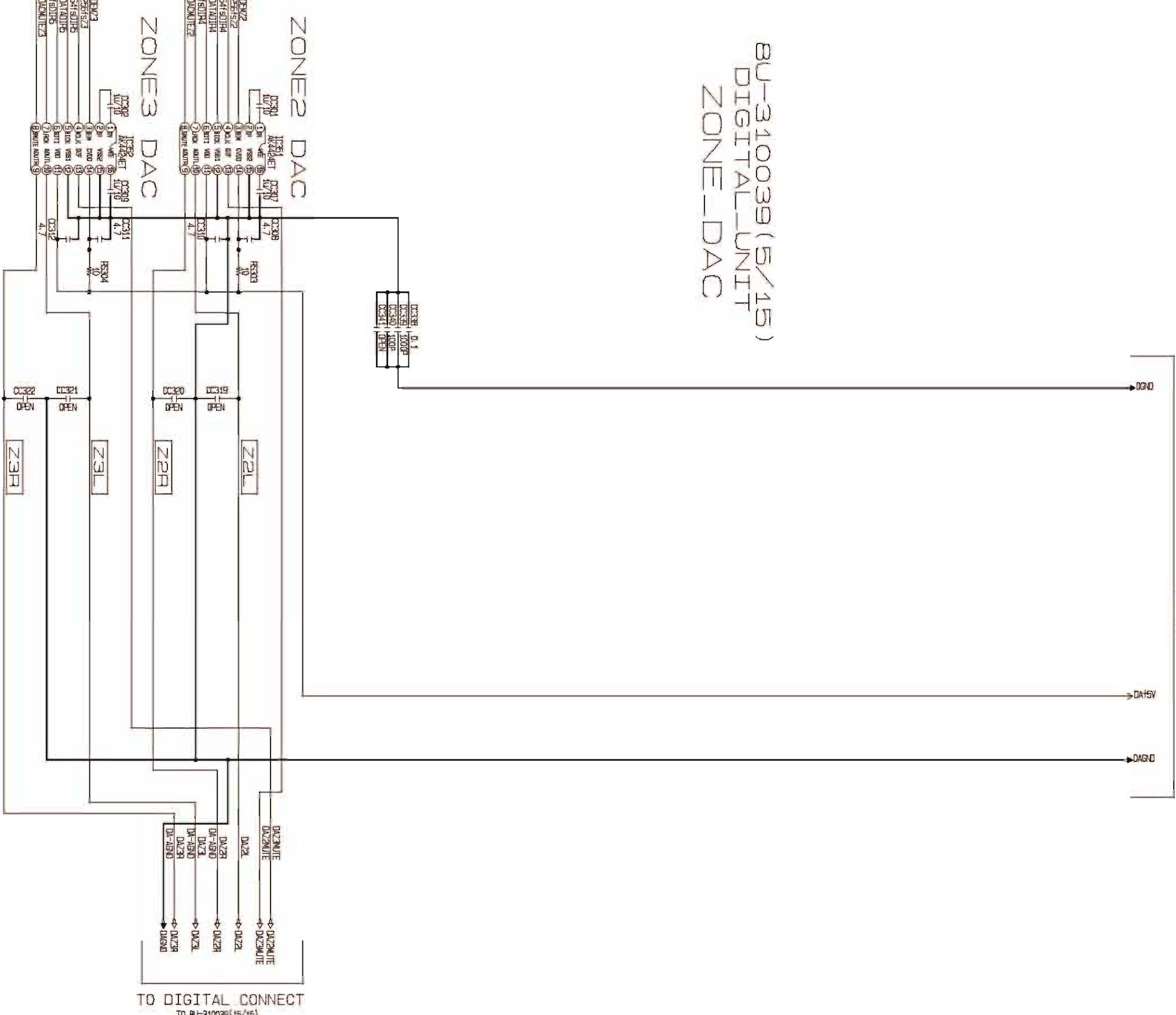
5
TO MAIN DAC
TO BU-310039[4/15]

6

7

8

**BU-310039 (5/15)
DIGITAL UNIT
ZONE-DAC**



SCHEMATIC DIAGRAMS (25/35)

8U-310030 DIGITAL UNIT (5/15)
ZONE DAC

AVR-3310C/AVR-3310/AVR-990/AVC-3310

F

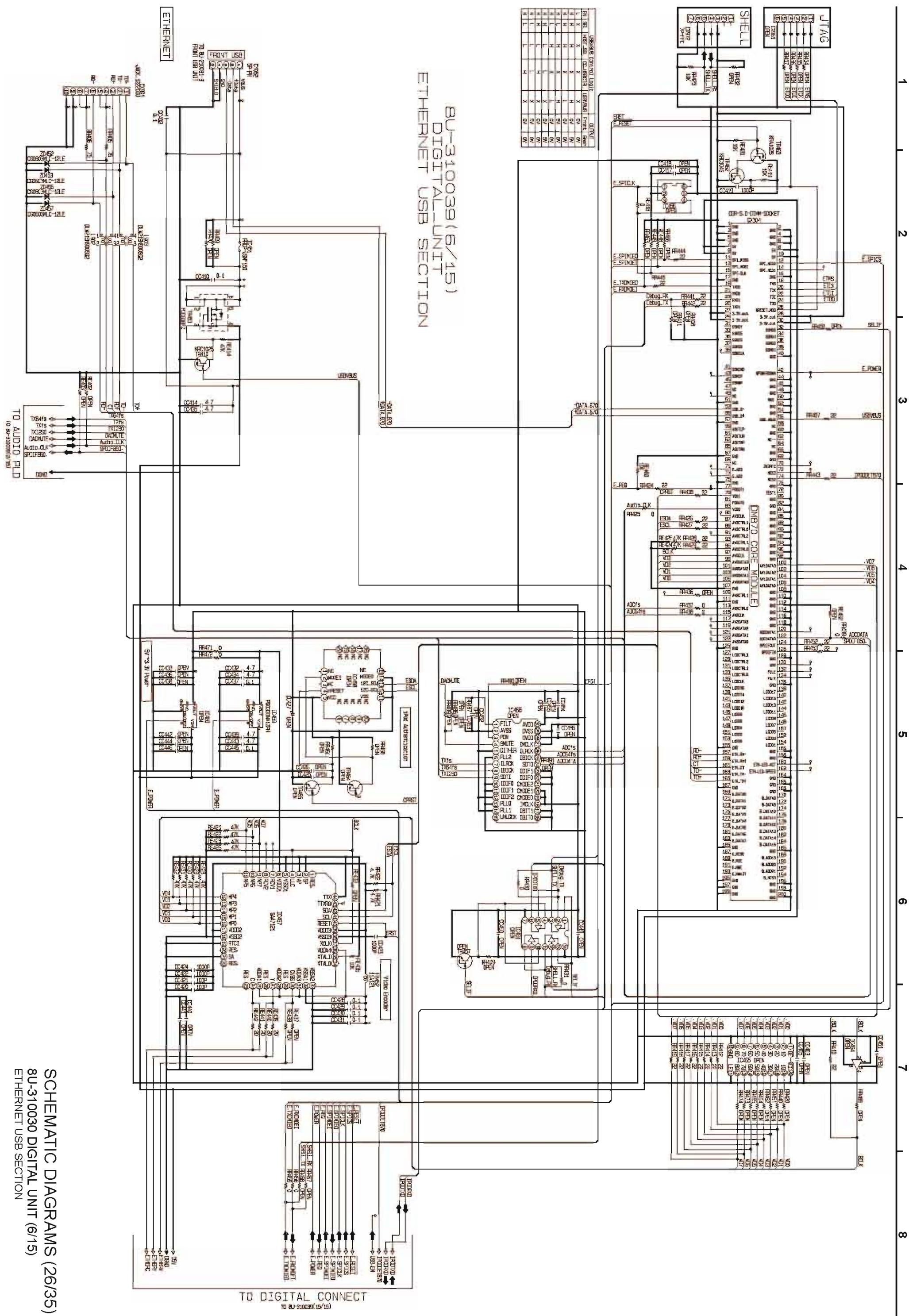
E

D

C

B

A

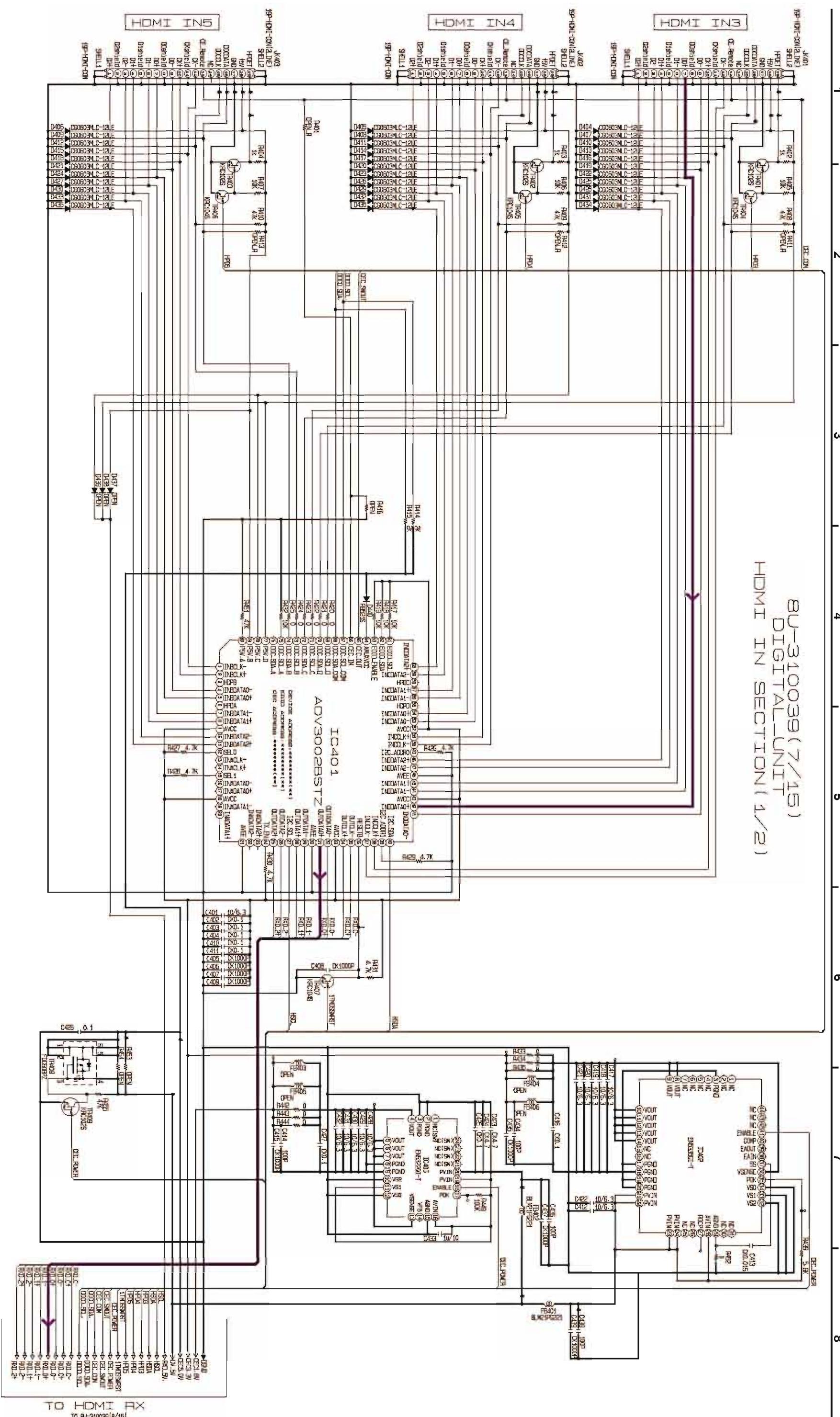


SCHEMATIC DIAGRAMS (26/35)

8U-310030 DIGITAL UNIT (6/15)

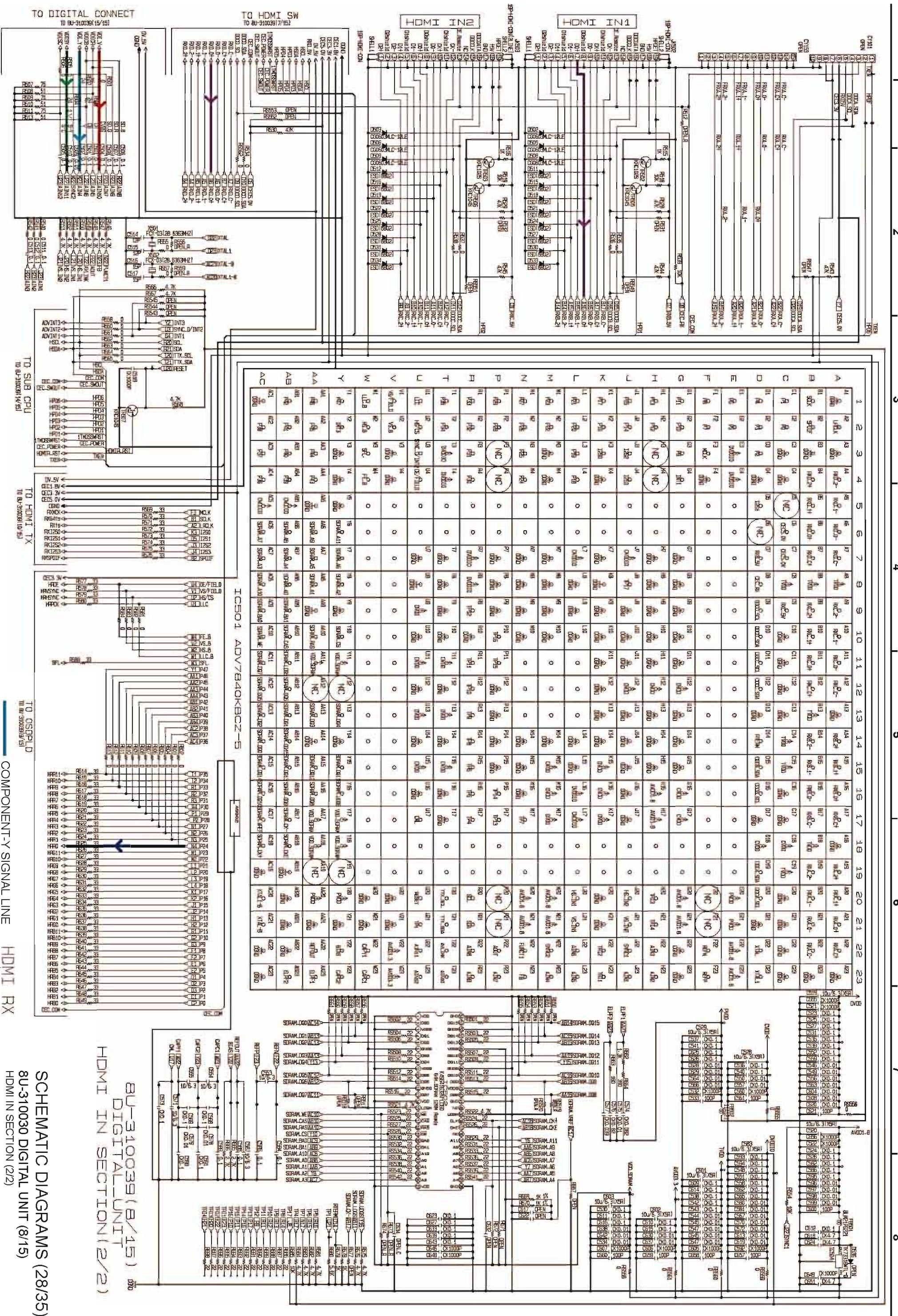
ETHERNET USB SECTION

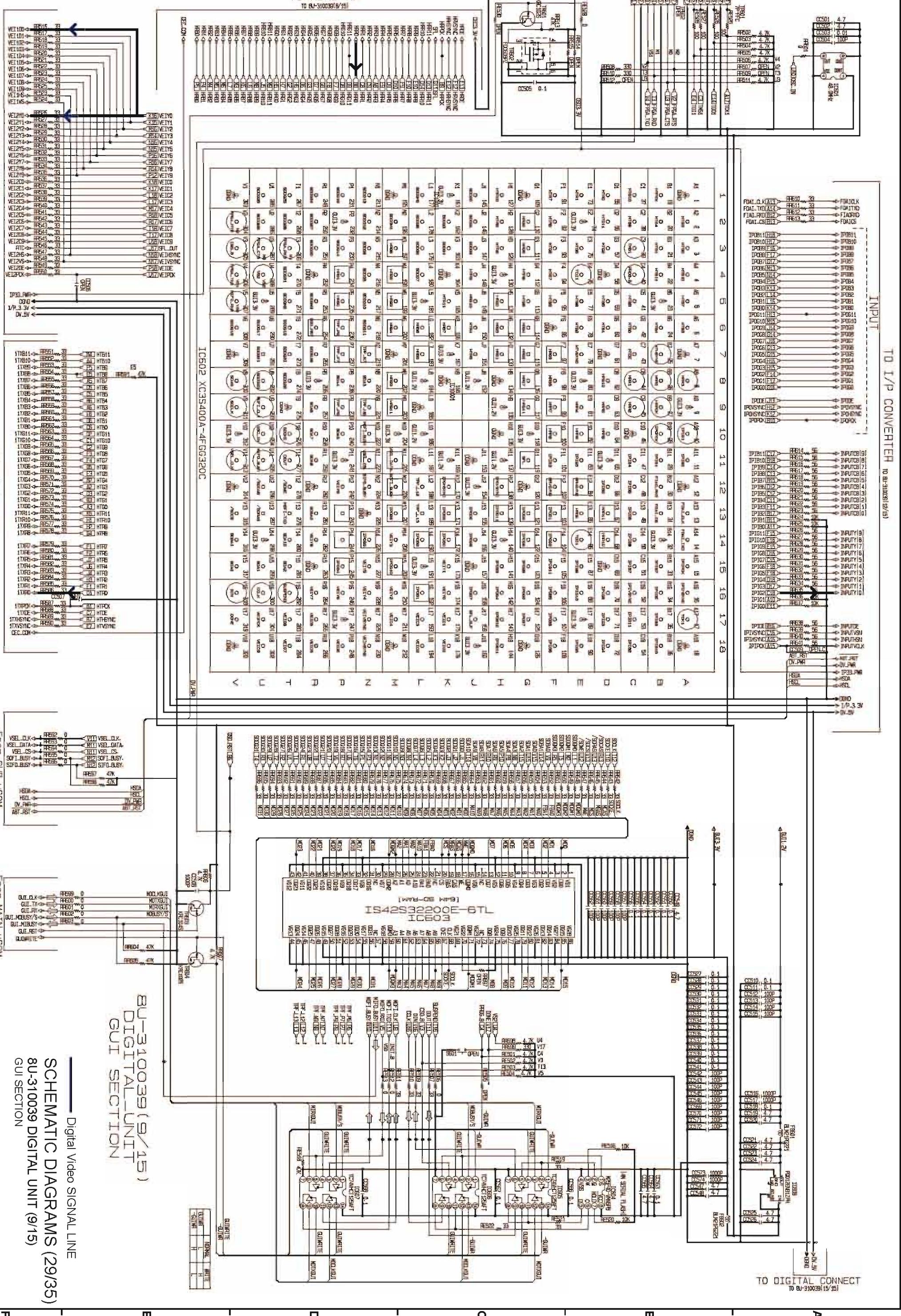
BU-310039(7/15)
DIGITAL_UNIT
HDMI IN SECTION(1/2)

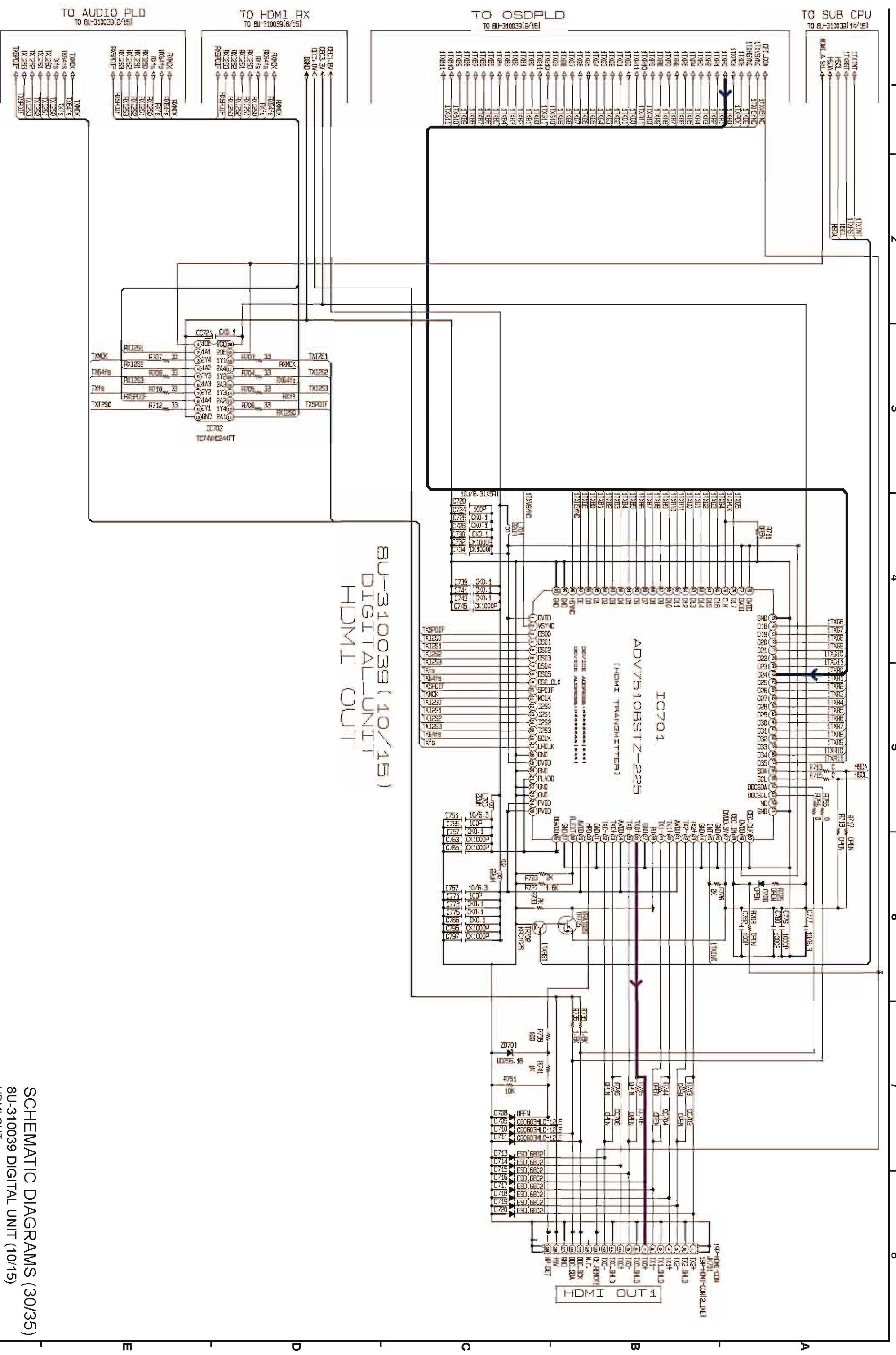


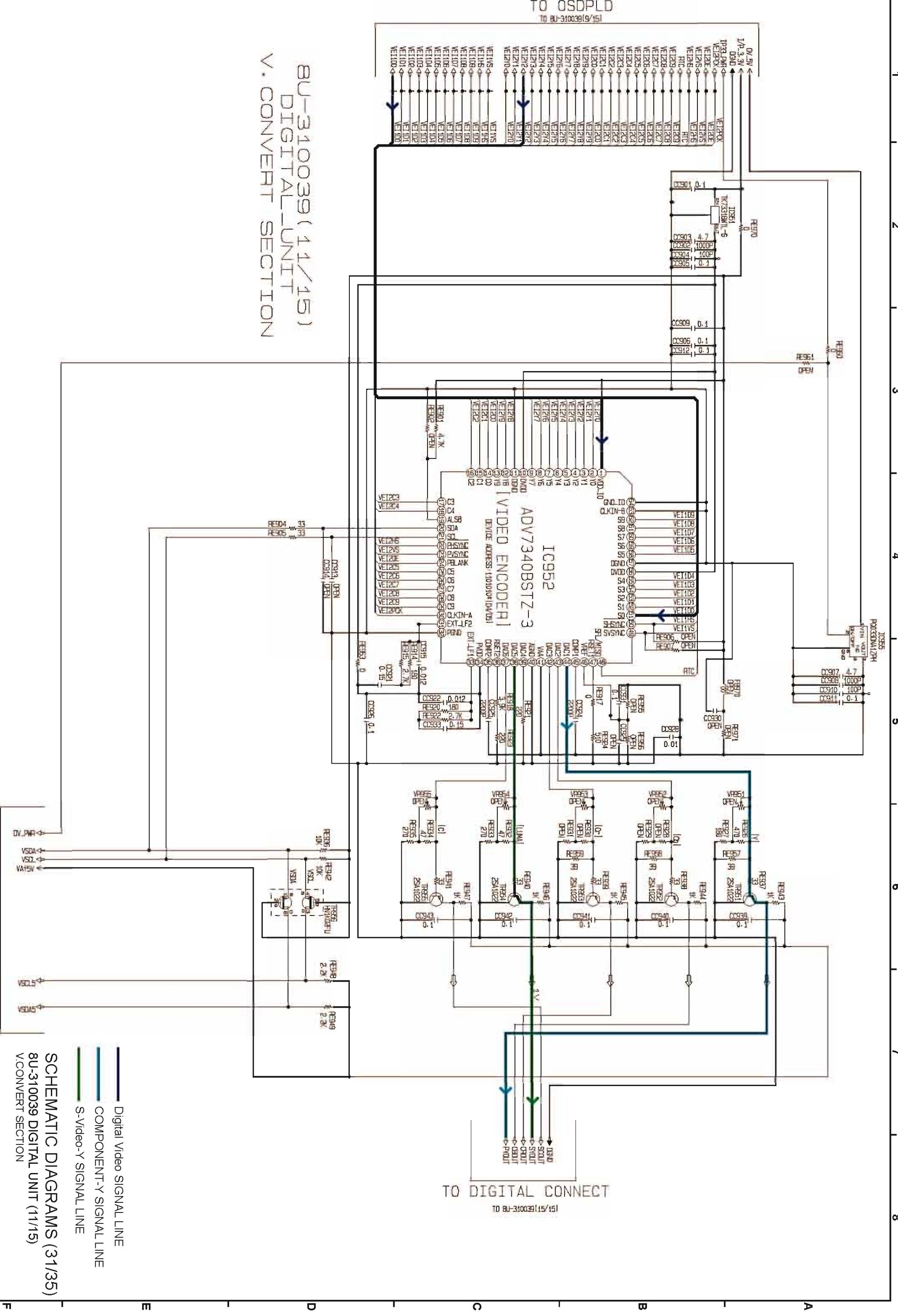
HDMI/TMDS SIGNAL LINE

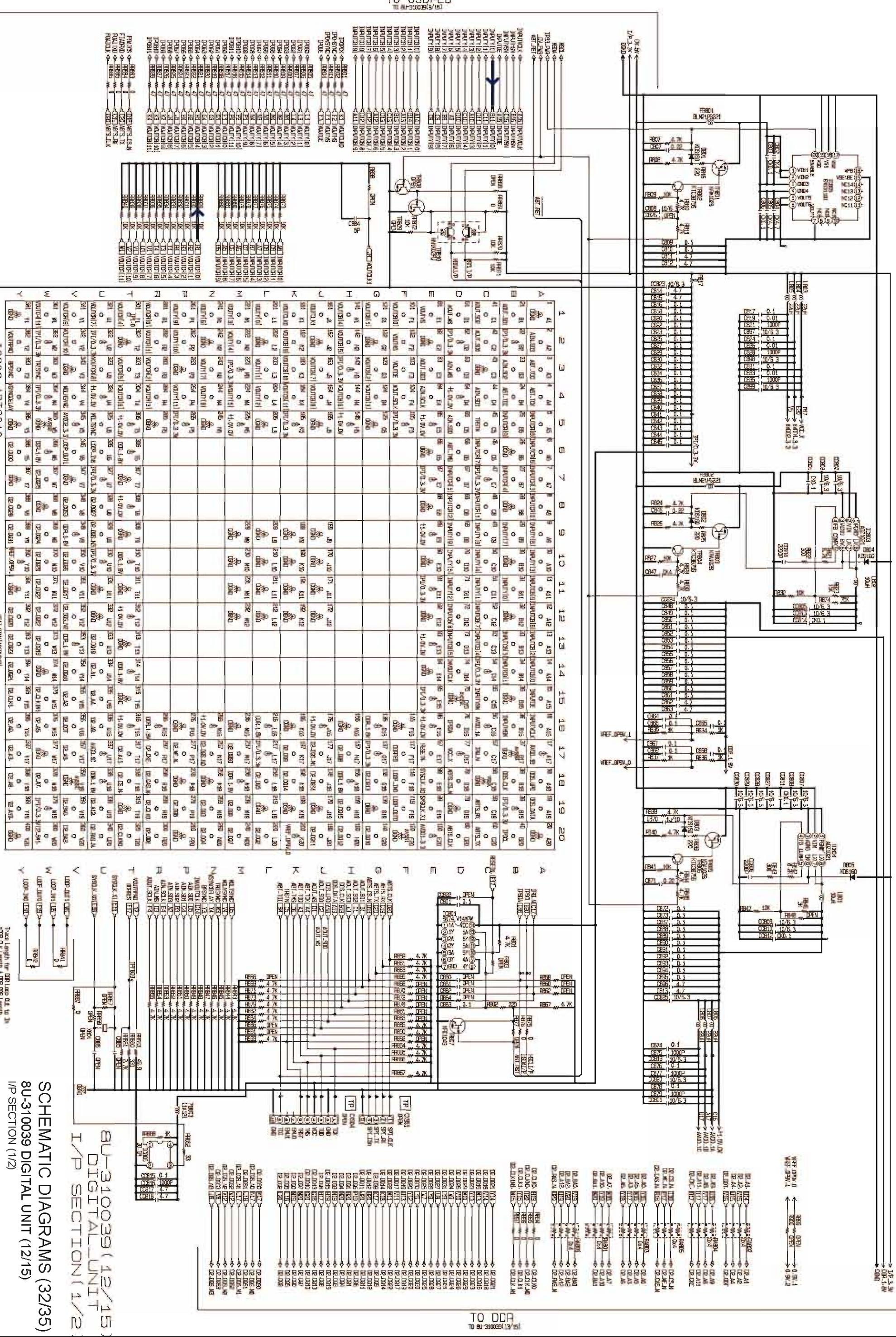
SCHEMATIC DIAGRAMS (27/35)
8U-310030 DIGITAL UNIT (7/15)
HDMI IN SECTION (1/2)







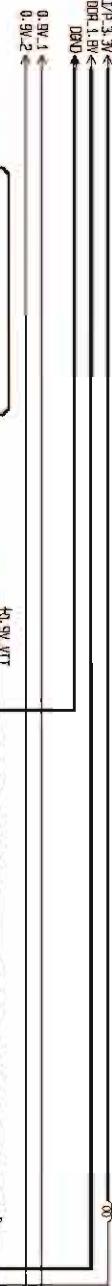




SCHEMATIC DIAGRAMS (32/35)
81-310039 DIGITAL UNIT (12/15)

Tanz | math | 88 | 2008

1 2 3 4 5 6 7 8

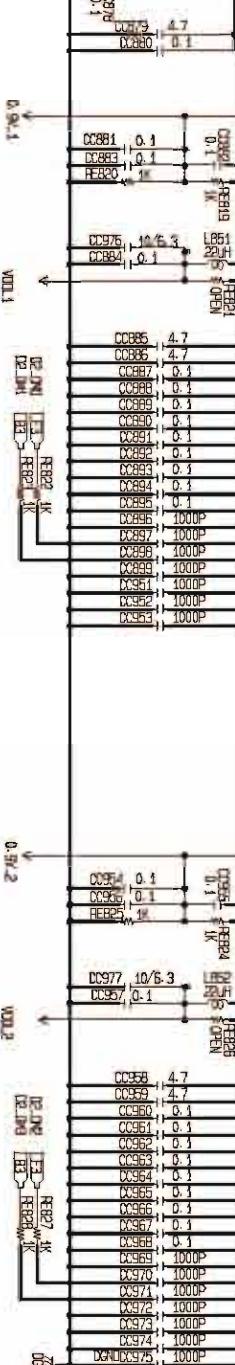


IC851
BU310039

IC852
K4751163QG-HCE7

IC853
K4751163QG-HCE7

A



IC851
BU310039

IC852
K4751163QG-HCE7

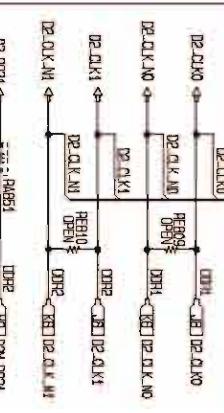
A



IC851
BU310039

IC852
K4751163QG-HCE7

A



IC851
BU310039

A

BU-310039 (13/15) I/P SECTION (2/2)

IC852 DDR1
K4751163QG-HCE7

IC853 DDR2
K4751163QG-HCE7

A



IC851
BU310039

A



IC851
BU310039

A



IC851
BU310039

A

I/P 3.3V
DIO 1.8V
DIO 0.9V

0.9V 2

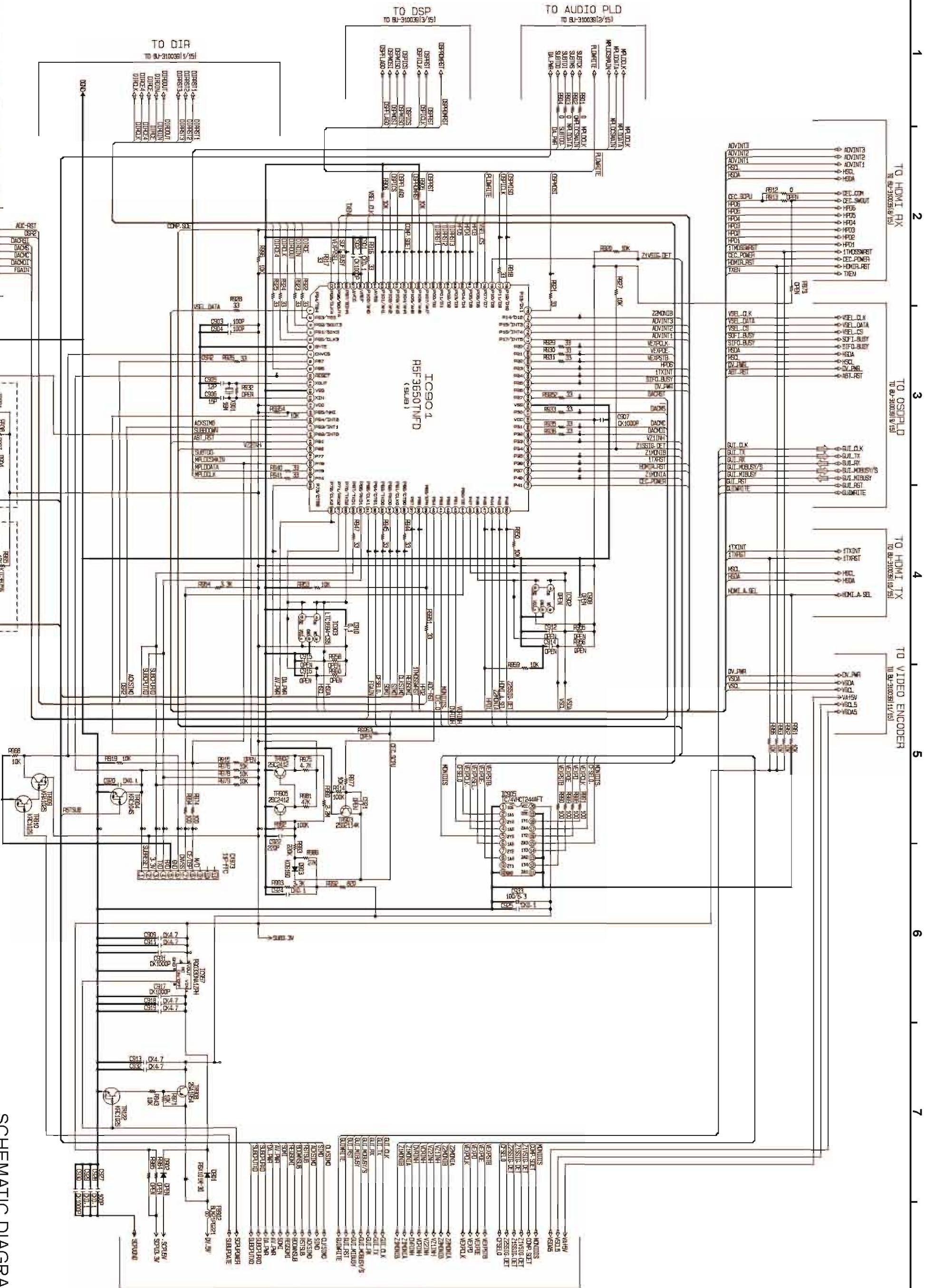
0.9V 1

0.9V 0

0.9V 1

8U-310039 (14/15)
DIGITAL UNIT
SUB CPU SECTION

TO DAC/ADC
TO BU-310039(4/15)



SCHEMATIC DIAGRAMS (34/35)
8U-310039 DIGITAL UNIT (14/15)
SUB CPU SECTION

