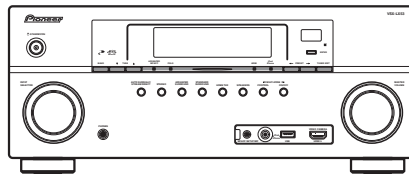


Pioneer

Service Manual



VSX-LX53

ORDER NO.
RRV4133

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-LX53

VSX-2020-K

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
VSX-LX53	SYXJ5	AC 220 V to 230 V	
VSX-2020-K	SYXJ5	AC 220 V to 230 V	

This service manual should be used together with the following manual(s).

Model No.	Order No.	Remarks
VSX-LX53 VSX-2020-K	RRV4134	PCB RETRIEVAL DIAGRAM



For details, refer to "Important Check Points for good servicing".

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[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification (addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.
- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C. Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:
GYP1006 1.0 in dia.
GYP1007 0.6 in dia.
GYP1008 0.3 in dia.

1.2 NOTES ON REPLACING

The part listed below is difficult to replace as a discrete component part.

When the part listed in the table is defective, replace whole Assy.

ASSY NAME	PCB ASSY Part No.	Parts that is Difficult to Replace			
		Ref No.	FUNCTION	Part No.	Remarks
DIGITAL MAIN ASSY	AWX9719	IC101	MAIN CPU	UPD61283F1-407LU2A	BGA
		IC904	HDMI Receiver	SII9233ACTU	IC with heat-pad
		IC1204	Digital Video Format Converter	88DE2750	BGA
		IC1212	DDR2 SDRAM	EDE5116AJBG-8E-E	BGA
		IC9506	Ethernet IC	LAN9211-ABZJ	IC with heat-pad
		IC9804	Regulator	NJM2846DL3-18	IC with heat-pad
		IC9810	Regulator	MM1701WH	IC with heat-pad
		IC9811	Regulator	NJM2846DL3-33	IC with heat-pad

1.3 CAUTION

- Discharging
Please refer to page 57, "Preparations Before Performing Diagnosis of the POWER AMP Assy".
- Ground Points
Please refer to page 58, "Ground Points".

2. SPECIFICATIONS

2.1 SPECIFICATIONS

- These specifications are applicable when the power supply is 230 V.

Audio section

Rated power output (1 kHz, 6 Ω, 1 %)

Front	150 W + 150 W
Center	150 W
Surround	150 W + 150 W
Surround back (Front height/wide)	150 W + 150 W

Rated power output (20 Hz to 20 kHz, 8 Ω, 0.08 %)

Front	110 W + 110 W
Center	110 W
Surround	110 W + 110 W
Surround back (Front height/wide)	110 W + 110 W

- B Total Harmonic Distortion (20 Hz to 20 kHz, 8 Ω, 100 W + 100 W) 0.06 %

Guaranteed speaker impedance

. 16Ω to 8Ω less than 8 Ω to 6Ω (setting required)

Signal-to-Noise Ratio (IHF, short circuited, A network)

. 103 dB

- Frequency Response 5 Hz to 100 000 Hz ± 0.3 dB (Pure Direct Mode)

Input (Sensitivity/Impedance) 350 mV/47 kΩ

Output (Level/Impedance)

REC 350 mV/2.2 kΩ

Tuner Section

- C Frequency Range (FM) 87.5 MHz to 108 MHz

Antenna Input (FM) 75Ω unbalanced

Frequency Range (AM) 531 kHz to 1602 kHz

Antenna (AM) Loop antenna (balanced)

Video Section

Signal level

- Composite Video 1 Vp-p (75 Ω)
- Component Video Y: 1.0 Vp-p (75 Ω), PB, PR: 0.7 Vp-p (75 Ω)

Corresponding maximum resolution

Component Video 1080p (1125p) (Video convert off)

- D **Digital In/Out Section**

HDMI terminal 19-pin (Not DVI)

HDMI output type5 V, 100 mA

USB terminal USB2.0 Full Speed (Type A)

iPod terminal USB, and Video (Composite)

ADAPTER PORT terminal5 V, 100 mA

- **Integrated control section**

Control (SR) terminal Ø 3.5 Mini-jack (MONO)

Control (IR) terminal Ø 3.5 Mini-jack (MONO)

IR signal High Active (High Level: 2.0 V)

12 V Trigger terminal Ø 3.5 Mini-jack (MONO)

12 V Trigger output type 12 V, Total 150 mA

- E RS-232C cable type 9-pin, cross type, female-female
- EXTENSION terminal5 V, 150 mA

Network Section

LAN terminal 10 BASE-T/100 BASE-TX

Bluetooth ADAPTER (AS-BT100) (VSX-LX53 only)

Power DC 5 V

- Version Bluetooth Specification Ver. 2.0 + EDR

Output Bluetooth Specification Class 2

Estimated line-of-sight transmission distance*

. About 10 m

Frequency range 2.4 GHz

Modulation

. FH-SS (Frequency Hopping Spread Spectrum)

- F Supported Bluetooth profiles A2DP, AVRCP

Supported Codec SBC (Subband Codec)

Supported contents protection SCMS-T

External dimensions

. 30.5 mm (W) x 9.0 mm (H) x 50 mm (D)

Weight About 11 g

*The line-of-sight transmission distance is an estimate.

Actual transmission distances supported may differ depending on surrounding conditions.

Miscellaneous

Power requirements AC 220 V to 230 V, 50 Hz/60 Hz

Power consumption 410 W

In standby 0.2 W (**HDMI Setup–Control: OFF**)

0.3 W (**HDMI Setup–Control: ON**)

Dimensions 420 (W) mm x 173 (H) mm x 433 (D) mm

Weight (without package)

VSX-LX53 13.4 kg

VSX-2020-K 13.1 kg

Number of Furnished Parts

MCACC Setup microphone (APM7009) 1

Remote control unit (AXD7592) 1

AAA size IEC R03 dry cell batteries 2

iPod cable 1

AM loop antenna 1

FM wire antenna 1

Bluetooth ADAPTER (AS-BT100) (VSX-LX53 only) 1

Power cord 1

Warranty card 1

Quick start guide 1

Operating instructions



Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

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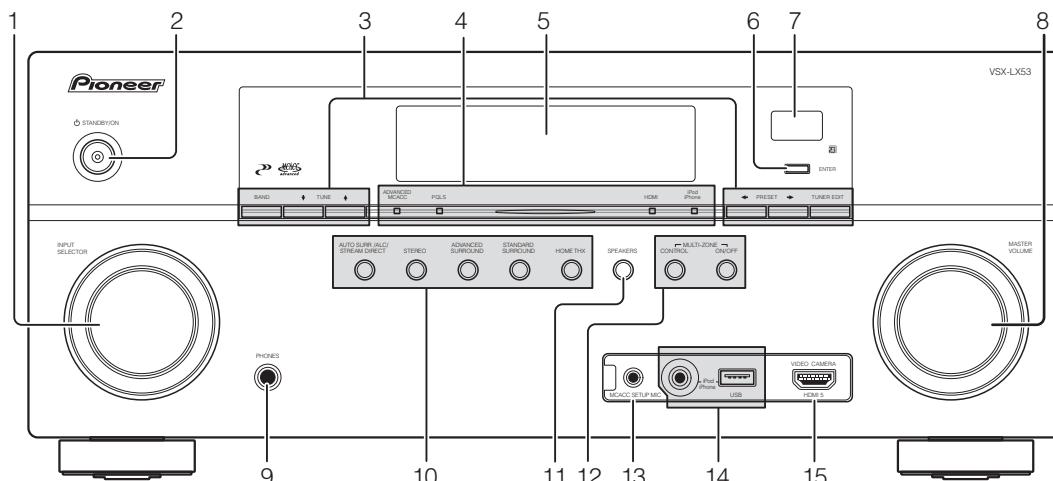
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2.2 PANEL FACILITIES

[1] Front Panel



1 INPUT SELECTOR dial

Use to select an input function.

2 **STANDBY/ON**

Switches the receiver between on and standby.

3 Tuner controls

BAND – Switches between the AM and FM radio bands.

TUNE \uparrow/\downarrow – Use to find radio frequencies.

PRESET \leftarrow/\rightarrow – Use to find preset stations.

TUNER EDIT – Use with **TUNE** \uparrow/\downarrow , **PRESET** \leftarrow/\rightarrow and **ENTER** to memorize and name stations for recall.

4 Indicators

ADVANCED MCACC – Lights when **EQ** is set to **ON** in the **AUDIO PARAMETER** menu.

PQLS – Lights when the PQLS feature is active.

HDMI – Blinks when connecting an HDMI-equipped component; lights when the component is connected.

iPod/iPhone – Lights to indicate iPod/iPhone is connected.

5 Character display

6 ENTER

7 Remote sensor

Receives the signals from the remote control.

8 MASTER VOLUME dial

9 PHONES jack

Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

10 Listening mode buttons

AUTO SURR/ALC/STREAM DIRECT – Switches between Auto Surround, Auto Level Control mode and Stream Direct mode.

STEREO – Switches between stereo playback and Front Stage Surround Advance modes.

ADVANCED SURROUND – Use to switch between the various surround modes.

STANDARD SURROUND – Press for Standard decoding and to switch various modes (\square Pro Logic, Neo:6, etc.).

HOME THX – Press to select a Home THX listening mode.

11 SPEAKERS

Use to change the speaker terminal.

12 MULTI-ZONE controls

If you've made MULTI-ZONE connections use these controls to control the sub zone from the main zone.

13 MCACC SETUP MIC jack

Use to connect the supplied microphone.

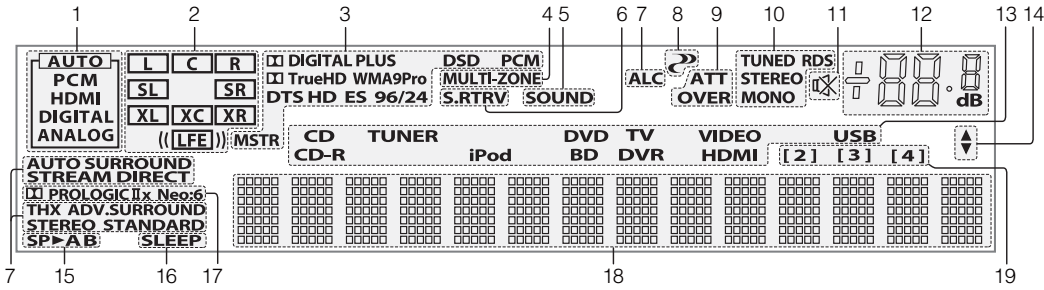
14 iPod/iPhone/USB terminals

Use to connect your Apple iPod as an audio and video source, or connect a USB device for audio and photo playback.

15 HDMI input connector

Use for connection to a compatible HDMI device (Video camera, etc.).

[2] Display



A

B

C

D

E

F

1 SIGNAL indicators

Light to indicate the currently selected input signal.
AUTO lights when the receiver is set to select the input signal automatically.

2 Program format indicators

Light to indicate the channel to which digital signals are being input.

- L/R** – Left front/Right front channel
- C** – Center channel
- SL/SR** – Left surround/Right surround channel
- LFE** – Low frequency effects channel (the (()) indicators light when an LFE signal is being input)
- XL/XR** – Two channels other than the ones above
- XC** – Either one channel other than the ones above, the mono surround channel or matrix encode flag

3 Digital format indicators

Light when a signal encoded in the corresponding format is detected.

- DIGITAL** – Lights with Dolby Digital decoding.
- DIGITAL PLUS** – Lights with Dolby Digital Plus decoding.
- TrueHD** – Lights with Dolby TrueHD decoding.
- DTS** – Lights with DTS decoding.
- DTS HD** – Lights with DTS-HD decoding.
- 96/24** – Lights with DTS 96/24 decoding.
- WMA9 Pro** – Lights to indicate that a WMA9 Pro signal is being decoded.
- DSD PCM** – Light during DSD (Direct Stream Digital) to PCM conversion with SACDs.
- PCM** – Lights during playback of PCM signals.
- MSTR** – Lights during playback of DTS-HD Master Audio signals.

4 MULTI-ZONE

Lights when the MULTI-ZONE feature is active.

5 SOUND

Lights when any of the Midnight, Loudness or tone controls features is selected.

Lights when Dialog Enhancement is switched on.

6 S.RTRV

Lights when the Sound Retriever function is active.

7 Listening mode indicators

- AUTO SURROUND** – Lights when the Auto Surround feature is switched on.
- ALC** – Lights when the ALC (Auto level control) mode is selected.
- STREAM DIRECT** – Lights when Direct/Pure Direct is selected.

ADV.SURROUND – Lights when one of the Advanced Surround modes has been selected.

STEREO – Lights when stereo listening is switched on.

STANDARD – Lights when one of the Standard Surround modes is switched on.

THX – Lights when one of the Home THX modes is selected.

8 (PHASE CONTROL)

Lights when Phase Control is switched on.

9 Analog signal indicators

Light to indicate reducing the level of an analog signal.

10 Tuner indicators

TUNED – Lights when a broadcast is being received.

STEREO – Lights when a stereo FM broadcast is being received in auto stereo mode.

MONO – Lights when the mono mode is set using MPX.

RDS – Lights when an RDS broadcast is received.

11

Lights when the sound is muted.

12 Master volume level

Shows the overall volume level.
 “---” indicates the minimum level, and “+12dB” indicates the maximum level.

13 Input function indicators

Light to indicate the input function you have selected.

14 Scroll indicators

Light when there are more selectable items when making the various settings.

15 Speaker indicators

Lights to indicate the current speaker system, **A** and/or **B**.

16 SLEEP

Lights when the receiver is in sleep mode.

17 Matrix decoding format indicators

- PRO LOGIC IIx** – This lights to indicate Pro Logic II / Pro Logic IIx decoding.
- Neo:6** – When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo:6 processing.

18 Character display

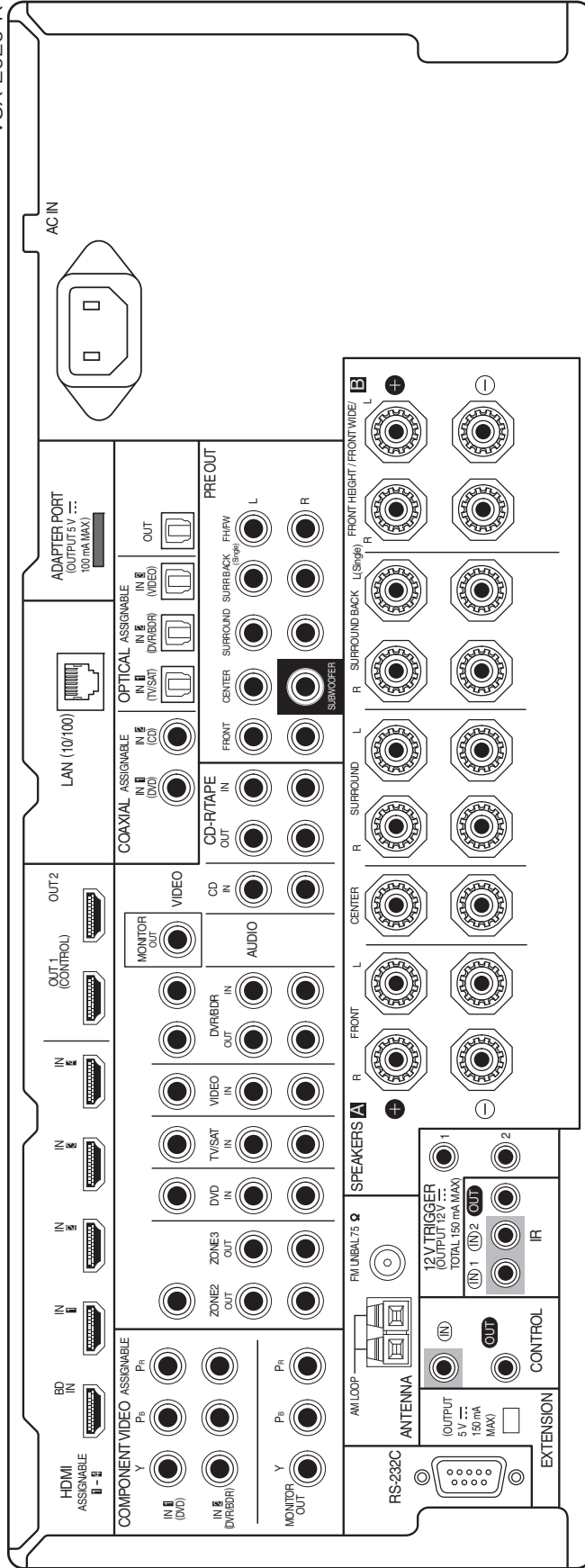
Displays various system information.

19 Remote control mode indicator

Lights to indicate the receiver's remote control mode setting. (Not displayed when set to **1**.)

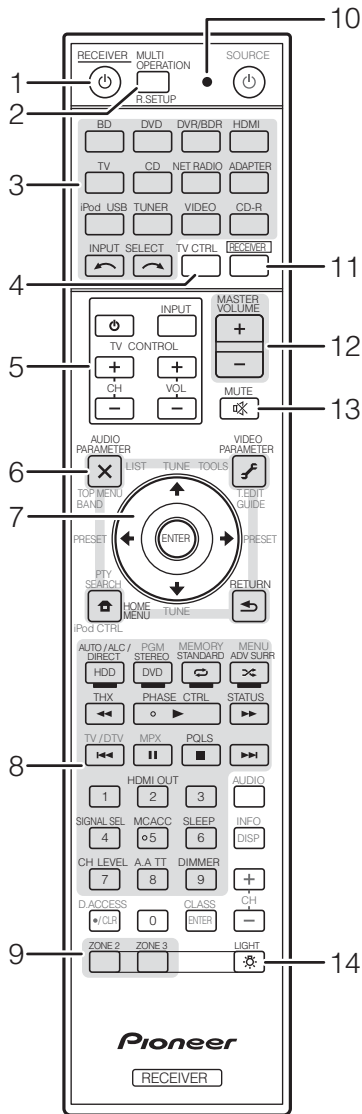
[3] Rear Panel

VSX-LX53
VSX-2020-K



A
B
C
D
E
F

[4] Remote Control



6 Receiver setting buttons

Press **RECEIVER** first to access:

AUDIO PARAMETER – Use to access the Audio options.

VIDEO PARAMETER – Use to access the Video options.

HOME MENU – Use to access the Home Menu.

RETURN – Press to confirm and exit the current menu screen.

7 ↑/↓/←/→/ENTER

Use the arrow buttons when setting up your surround sound system and the Audio or Video options.

8 Receiver Control buttons

Press **RECEIVER** first to access:

AUTO/ALC/DIRECT – Switches between Auto Surround, Auto Level Control mode and Stream Direct mode.

STEREO – Switches between stereo playback and Front Stage Surround Advance modes.

STANDARD – Press for Standard decoding and to switch various modes (Pro Logic, Neo:6, etc.).

ADV SURR – Use to switch between the various surround modes.

THX – Press to select a Home THX listening mode.

PHASE CTRL – Press to switch on/off Phase Control.

STATUS – Press to check selected receiver settings.

PQLS – Press to select the PQLS setting.

HDMI OUT – Switch the HDMI output terminal.

SIGNAL SEL – Use to select an input signal.

MCACC – Press to switch between MCACC presets.

SLEEP – Use to put the receiver in sleep mode and select the amount of time before sleep.

CH LEVEL – Press repeatedly to select a channel, then use **←/→** to adjust the level.

A.ATT – Attenuates (lowers) the level of an analog input signal to prevent distortion.

DIMMER – Dims or brightens the display.

9 MULTI-ZONEselect buttons

Switch to perform operations in ZONE 2 and ZONE 3.

10 Remote control LED

Lights when a command is sent from the remote control.

11 **RECEIVER**

Switches the remote to control the receiver (used to select the white commands).

Switch to perform operations in the main zone.

Also use this button to set up surround sound.

12 MASTER VOLUME +/-

Use to set the listening volume.

13 MUTE

Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

14

Press to turn on/off the illumination for the buttons. The way the buttons light can be selected from four modes.

The remote has been conveniently color-coded according to component control using the following system:

- **White** – Receiver control, TV control
- **Blue** – Other controls

1 RECEIVER

This switches between standby and on for this receiver.

2 **MULTI OPERATION** – Use to perform multi operations.

R.SETUP – Use to input the preset code when making remote control settings and to set the remote control mode.

3 **Input function buttons**

Press to select control of other components.

Use **INPUT SELECT** to select the input function.

4 **TV CTRL**

Set the preset code of your TV's manufacturer when controlling the TV.

5 **TV CONTROL** buttons

These buttons are dedicated to control the TV assigned to the **TV CTRL** button.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing

To keep the product quality after servicing, confirm recommended check points shown below.

No.	Procedures	Check points
1	Confirm whether the customer complain has been solved. If the customer complain occurs with the particular source, such as Dolby Digital, DTS, AAC, DVD-A and HDMI, input it for the operation check.	The customer complain must not be reappeared. Video, Audio and operations must be normal.
2	Check the analog audio playback. (Make the analog connections with a DVD player.)	Each channel audio and operations must be normal.
3	Check the digital audio playback. (Make the digital connections with a DVD player.)	Each channel audio and operations must be normal.
4	Check surround playback. (Select Surround mode and check the multichannel operations via the DSP circuit.)	Each channel audio and operations must be normal.
5	Check the video outputs. (Connect with a DVD player.)	Video and operations must be normal.
6	Check the tuner (AM and FM) operations.	Audio and operations must be normal.
7	Check the sound from headphone output.	Sound must be normal, without noise.
8	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding video and audio.

Item to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Flicker	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

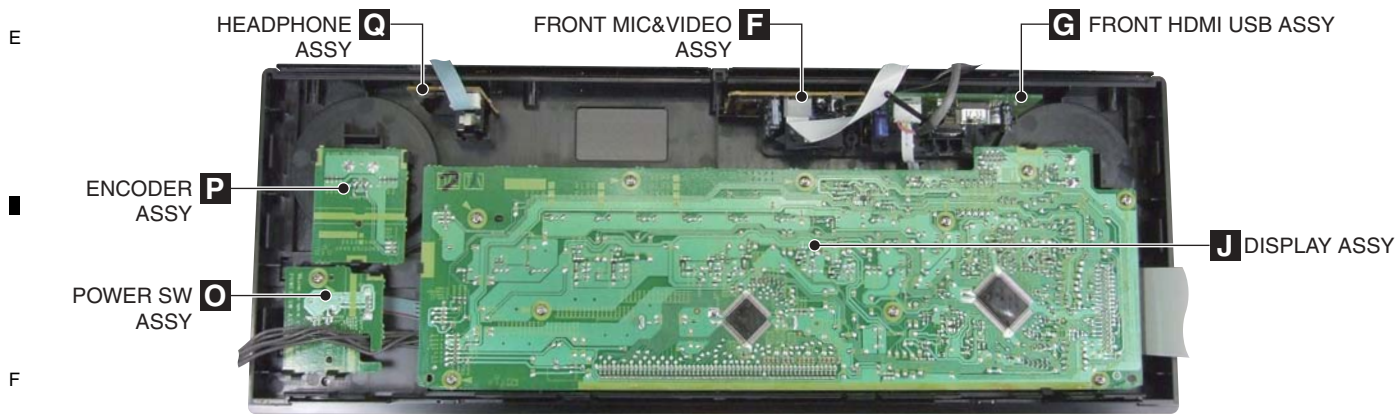
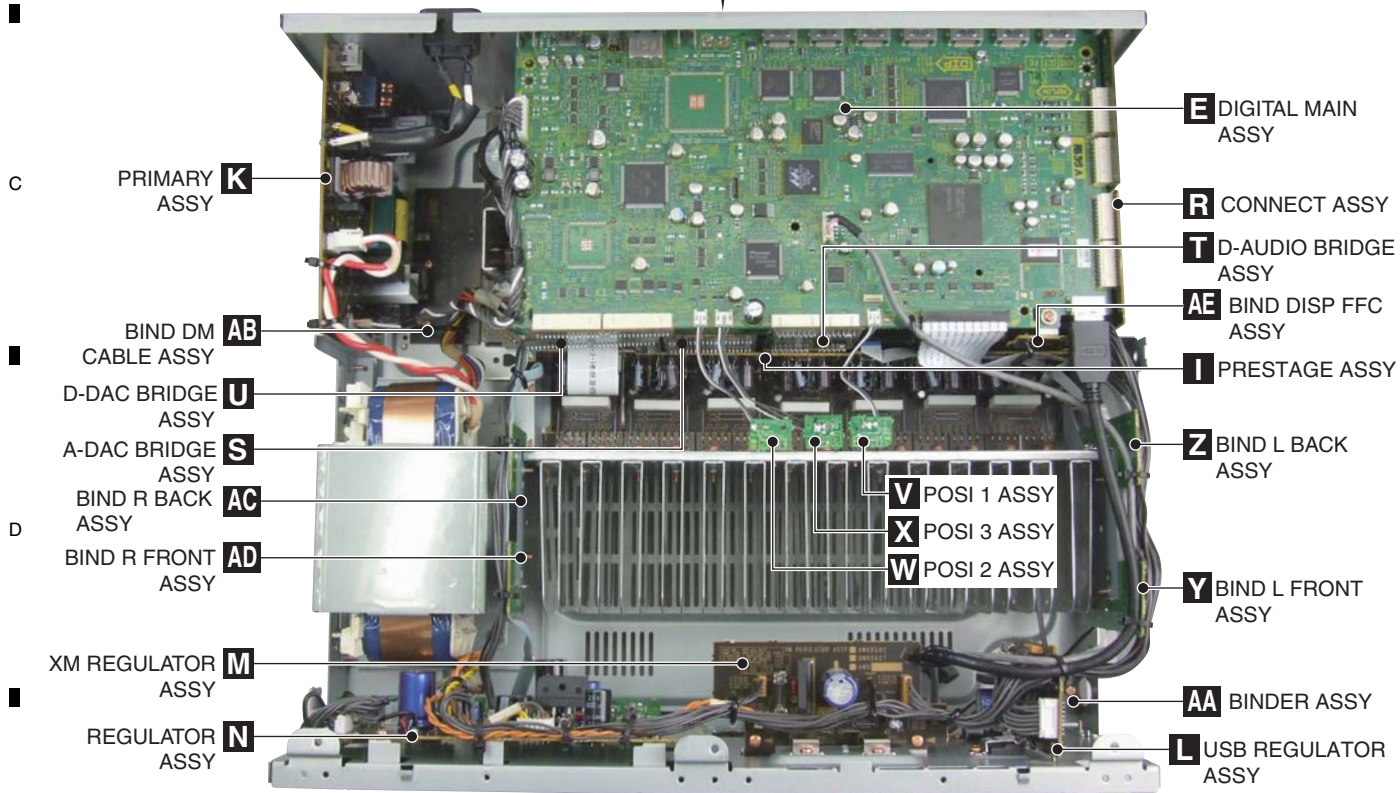
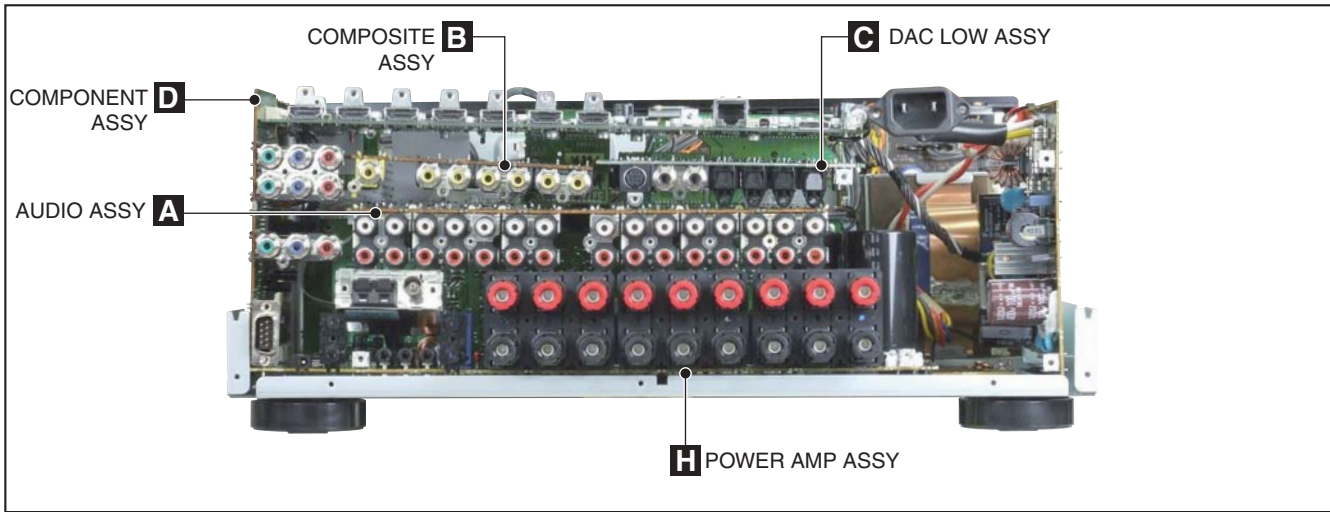
3.2 PCB LOCATIONS

1

2

3

4



1

2

3

4

NOTES: ● Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.
● The \triangle mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.

Mark No.	Description	Part No.	Mark No.	Description	Part No.
LIST OF ASSEMBLIES					
NSP	1..AMP ASSY	AWM8192	NSP	1..COMPLEX ASSY(VSX-2020-K)	AWM8230
	2..BIND L FRONT ASSY	AWX9574		2..POWER SW ASSY	AWX9588
	2..POSI 1 ASSY	AWX9576		2..ENCODER ASSY	AWX9589
	2..POSI 2 ASSY	AWX9577		2..HEADPHONE ASSY	AWX9590
	2..POSI 3 ASSY	AWX9578		2..CONNECT ASSY	AWX9592
	2..POWER AMP ASSY	AWX9660		2..FRONT MIC & VIDEO ASSY	AWX9593
	2..BIND R BACK ASSY	AWX9586		2..BINDER ASSY	AWX9595
				2..DISPLAY ASSY	AWX9726
				2..PRIMARY ASSY	AWX9676
NSP	1..LOCAL POWER ASSY	AWM8195	NSP	1..AUDIO COMPOSITE ASSY	AWR7087
	2..BIND DM CABLE SSSY	AWX9575		2..COMPOSITE ASSY	AWX9568
	2..REGULAOTR ASSY	AWX9579		2..D-AUDIO BRIDGE ASSY	AWX9569
	2..PRESTAGE ASSY	AWX9580		2..D-DAC BRIDGE ASSY	AWX9570
	2..USB REGULATOR ASSY	AWX9581		2..A-DAC BRIDGE ASSY	AWX9571
	2..BIND L BACK ASSY	AWX9585		2..AUDIO ASSY	AWX9644
	2..XM REGULATOR ASSY	AWX9667			
	2..BIND R FRONT ASSY	AWX9584		1..FRONT HDMI USB ASSY	AWX9565
	2..BIND DISP FFC ASSY	AWX9668			
NSP	1..COMPLEX ASSY(VSX-LX53)	AWM8197		1..COMPONENT ASSY	AWX9572
	2..POWER SW ASSY	AWX9588		1..DAC LOW ASSY	AWX9657
	2..ENCODER ASSY	AWX9589		1..DIGITAL MAIN ASSY	AWX9719
	2..HEADPHONE ASSY	AWX9590			
	2..CONNECT ASSY	AWX9592	NSP	1..BLUETOOTH AD ASSY(VSX-LX53)	AXF7022
	2..FRONT MIC & VIDEO ASSY	AWX9593		2..BLUETOOTH ASSY	AWM8111
	2..BINDER ASSY	AWX9595			
	2..DISPLAY ASSY	AWX9669		1..FM/AM TUNER UNIT	AXX7265
	2..PRIMARY ASSY	AWX9676			

3.3 JIGS LIST

[1] Jigs list

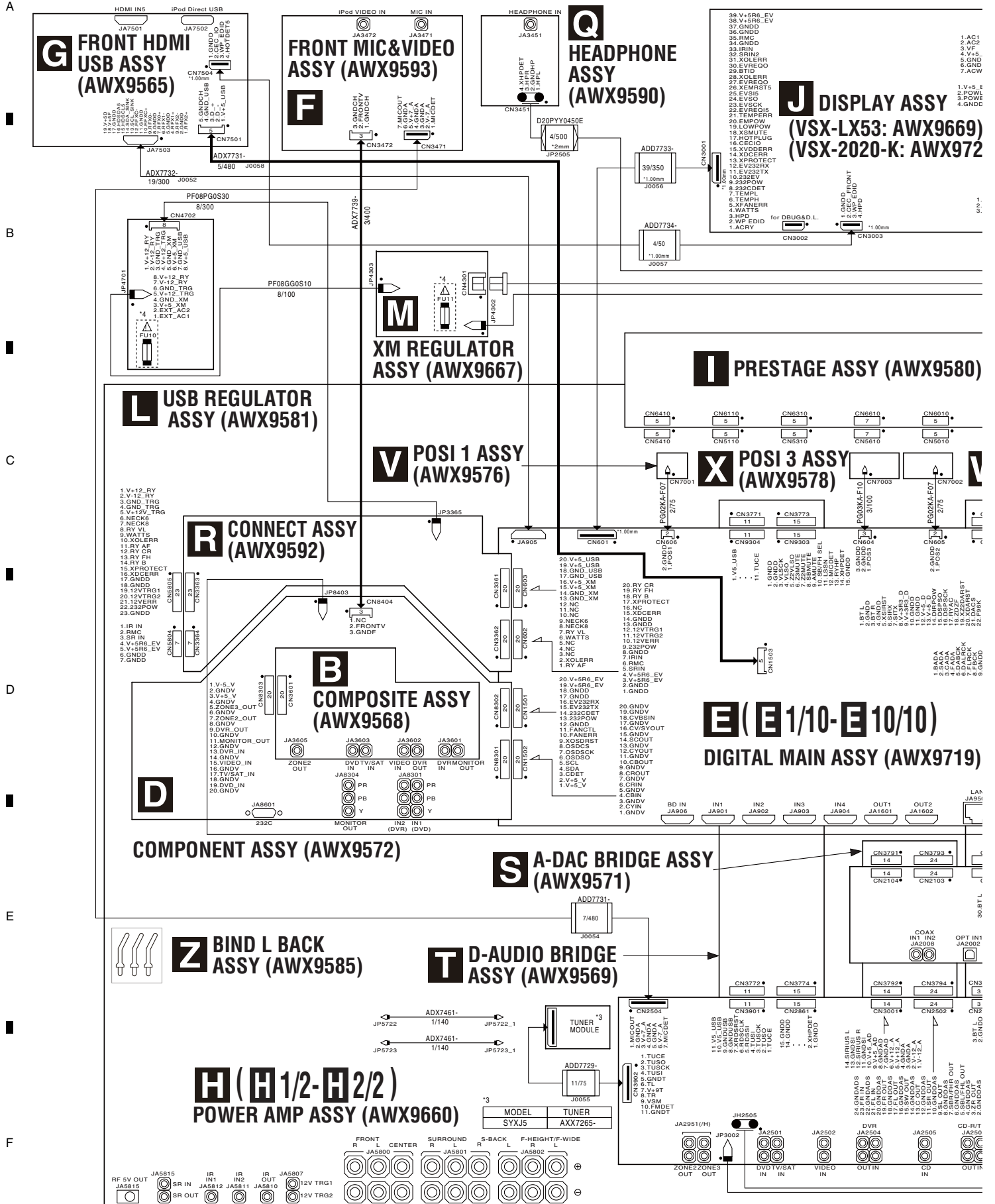
Name	Jig No.	Remarks
30P board to board extension jig cable x 2	GGD1682	Diagnosis for DAC Assy
24P + 14P board to board extension jig cable	GGD1683	Diagnosis for DAC Assy
20P + 20P board to board extension jig cable	GGD1677	Diagnosis for AUDIO Assy
19P FFC	GGD1678	Diagnosis for AUDIO Assy

[2] Lubricants and Glues List

Name	Lubricants and Glues No.	Remarks
Silicone Grease	GEM1057	Refer to “9.2 EXTERIOR SECTION”

4. BLOCK DIAGRAM

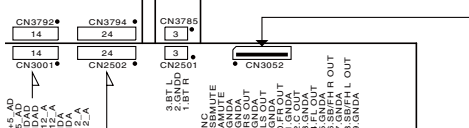
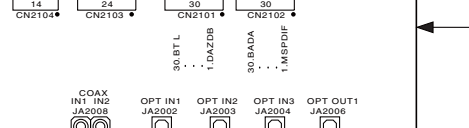
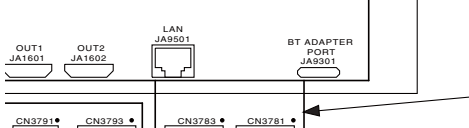
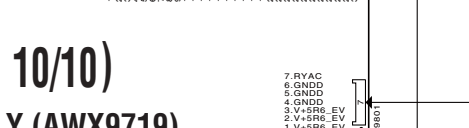
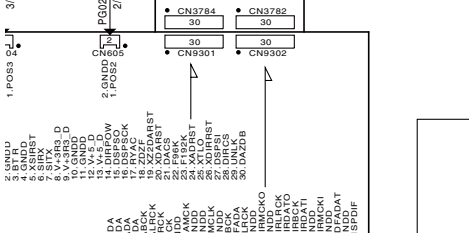
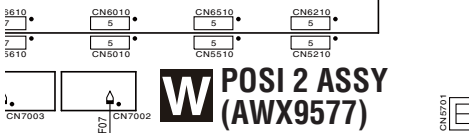
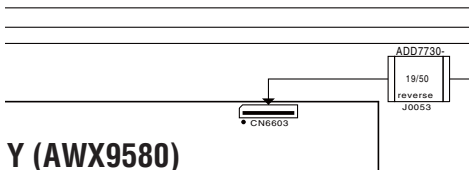
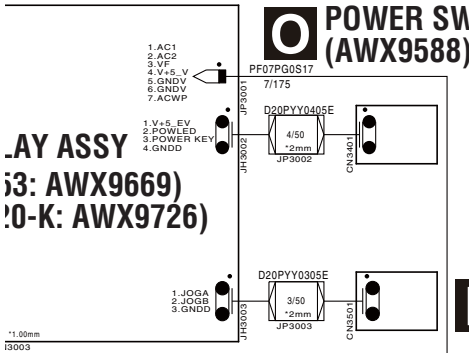
4.1 OVERALL WIRING DIAGRAM



NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply is shown with the marked box.



ENCODER ASSY (AWX9589)

MODEL	FU1	FU4	FU6,FU7	FU8,FU9	FU10	FU11
VSX-LX53 VSX-2020-K	SYXJ5	AEK1061- (T5A L/250V)	REK1104- (T5A L/250V)	AEK7072- (T800mA L/250V)	AEK7075- (T1.6A L/250V)	AEK7074- (T1.25A L/250V)

MODEL	MAIN TRANS	AC CORD
VSX-LX53 VSX-2020-K	SYXJ5	ATST7435- XDG3061-

OPTION

MODEL	MICROPHONE	REMO.COM	iPod CABLE	BLUETOOTH AD
VSX-LX53 VSX-2020-K	SYXJ5	APM7009- AXD7592-	ADE7135- AXF7022-	-

Y BIND L FRONT ASSY (AWX9574)

N REGULATOR ASSY (AWX9579)

U D-DAC BRIDGE ASSY (AWX9570)

C (C1/2-C2/2) DAC LOW ASSY (AWX9657)

A (A1/3-A3/3) AUDIO ASSY (AWX9644)

K PRIMARY ASSY (AWX9676)

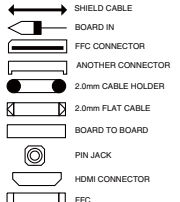
AA BINDER ASSY (AWX9595)

AB BIND DM CABLE ASSY (AWX9575)

AC BIND R BACK ASSY (AWX9586)

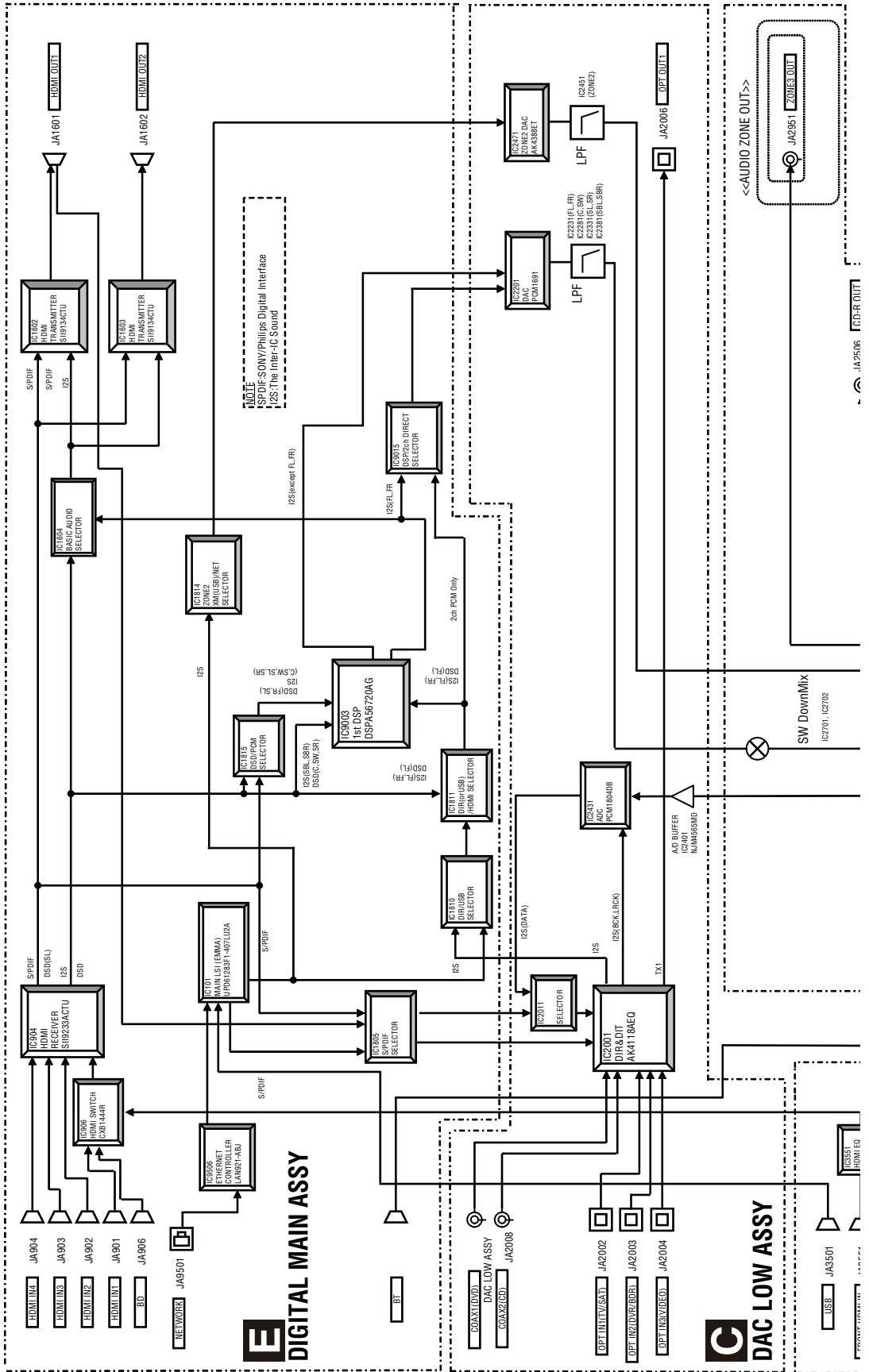
AD BIND R FRONT ASSY (AWX9584)

AE BIND DISP FFC ASSY (AWX9668)

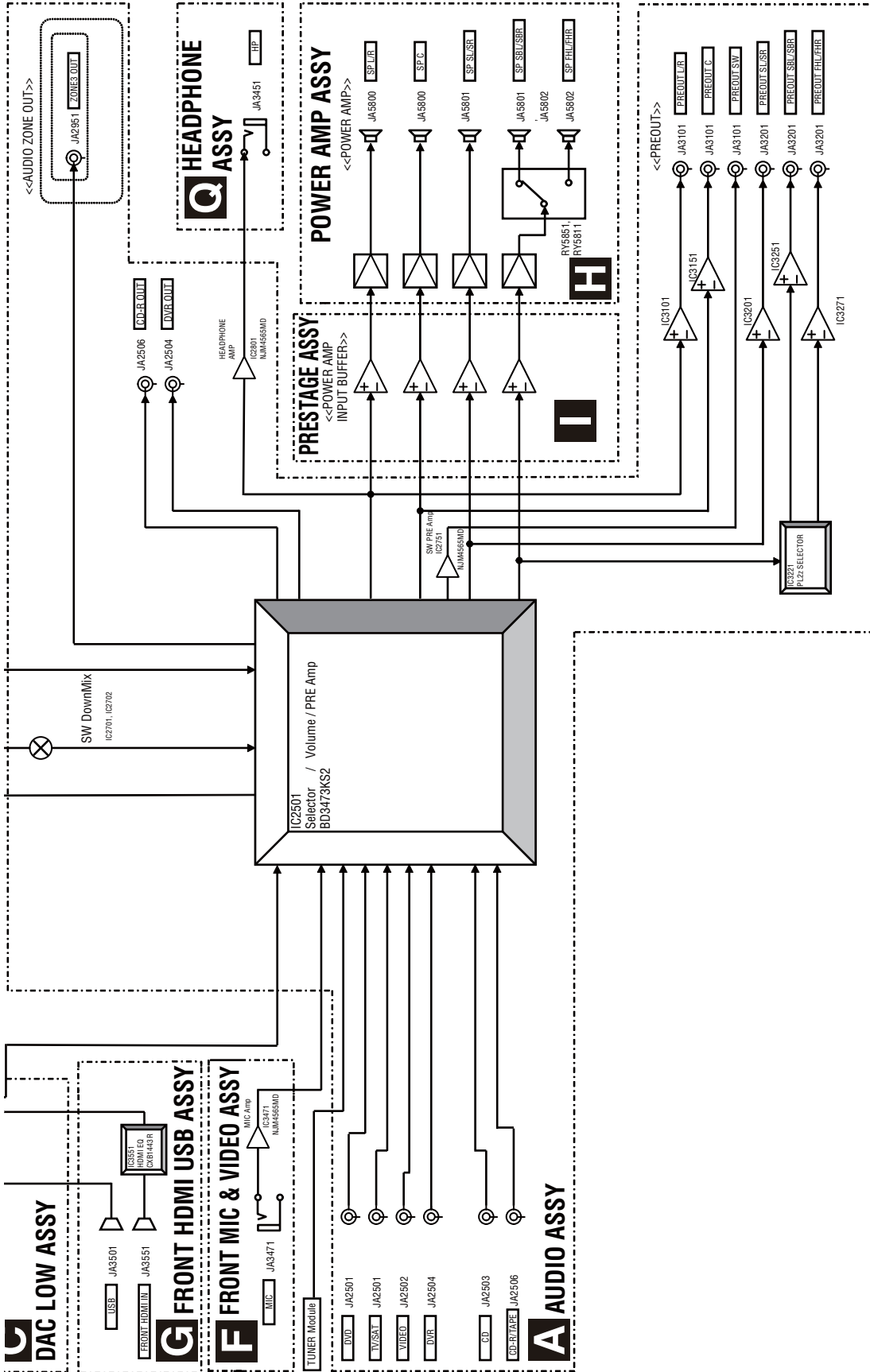


4.2 BLOCK DIAGRAM FOR AUDIO BLOCK

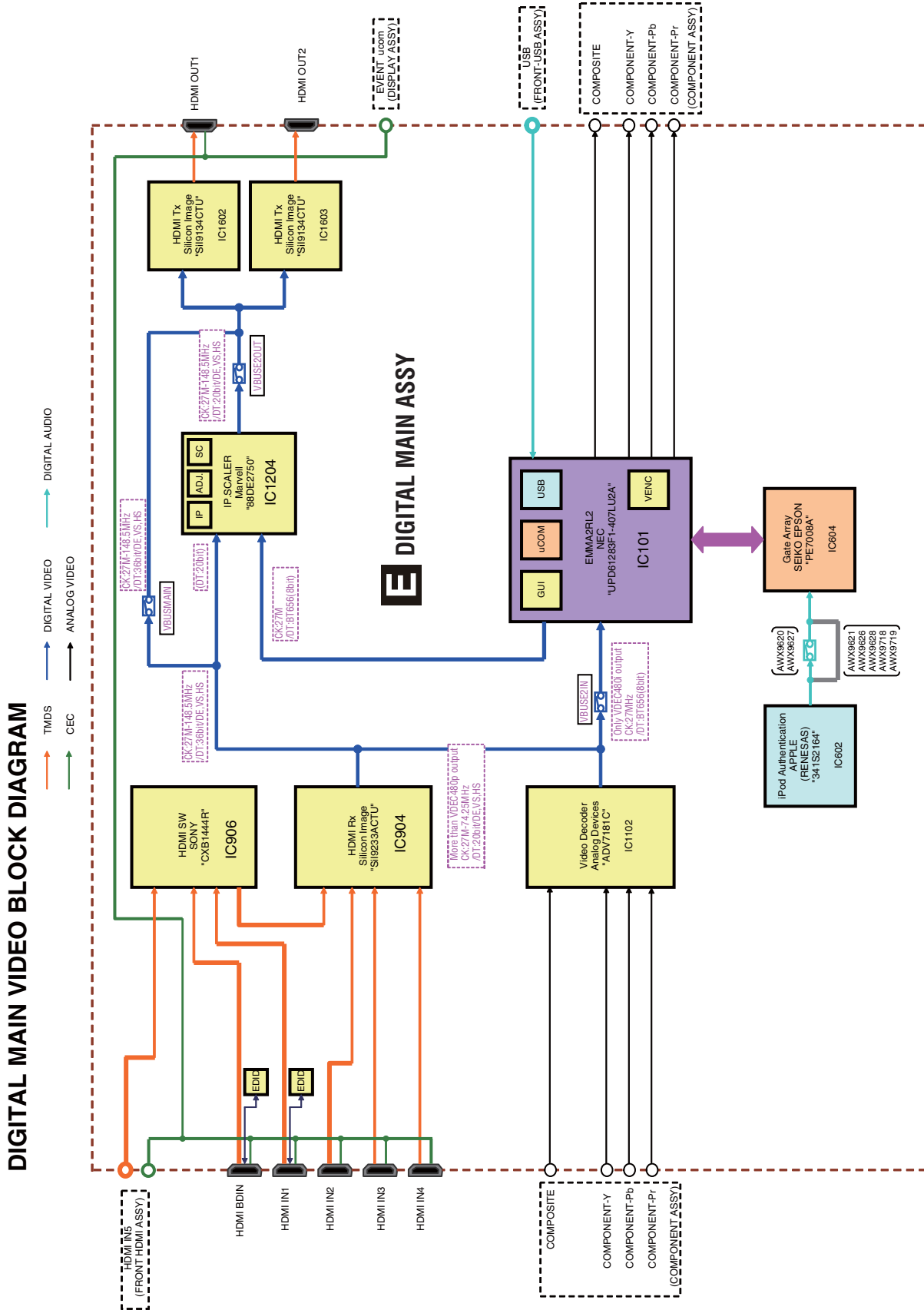
AUDIO BLOCK DIAGRAM



VSX-LX53

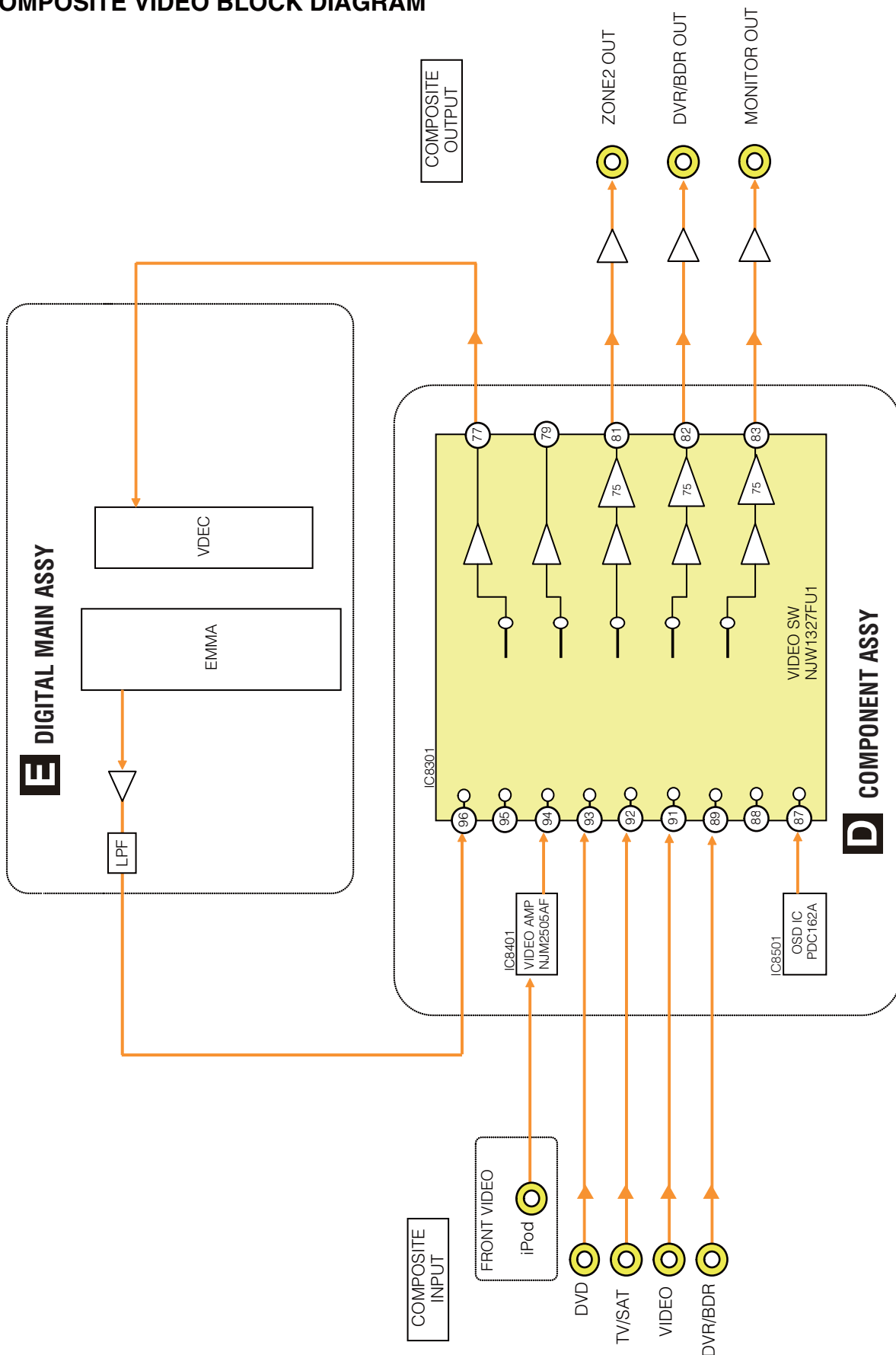


4.3 BLOCK DIAGRAM FOR DIGITAL MAIN VIDEO BLOCK



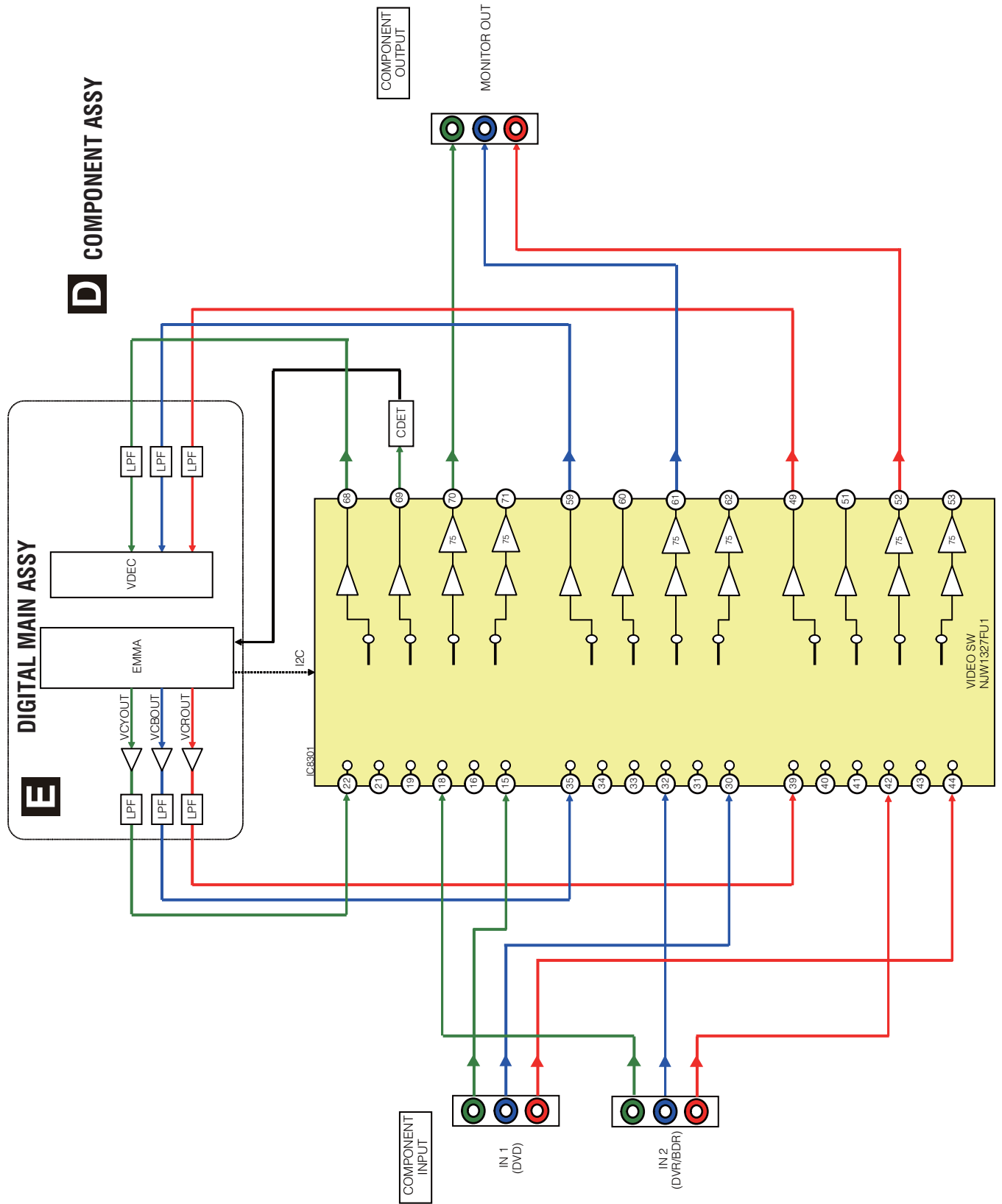
4.4 BLOCK DIAGRAM FOR COMPOSITE VIDEO BLOCK

COMPOSITE VIDEO BLOCK DIAGRAM



4.5 BLOCK DIAGRAM FOR COMPONENT VIDEO BLOCK

COMPONENT VIDEO BLOCK DIAGRAM





5



6



7



8



A



B



C



D



E



F



5



6

VSX-LX53



7

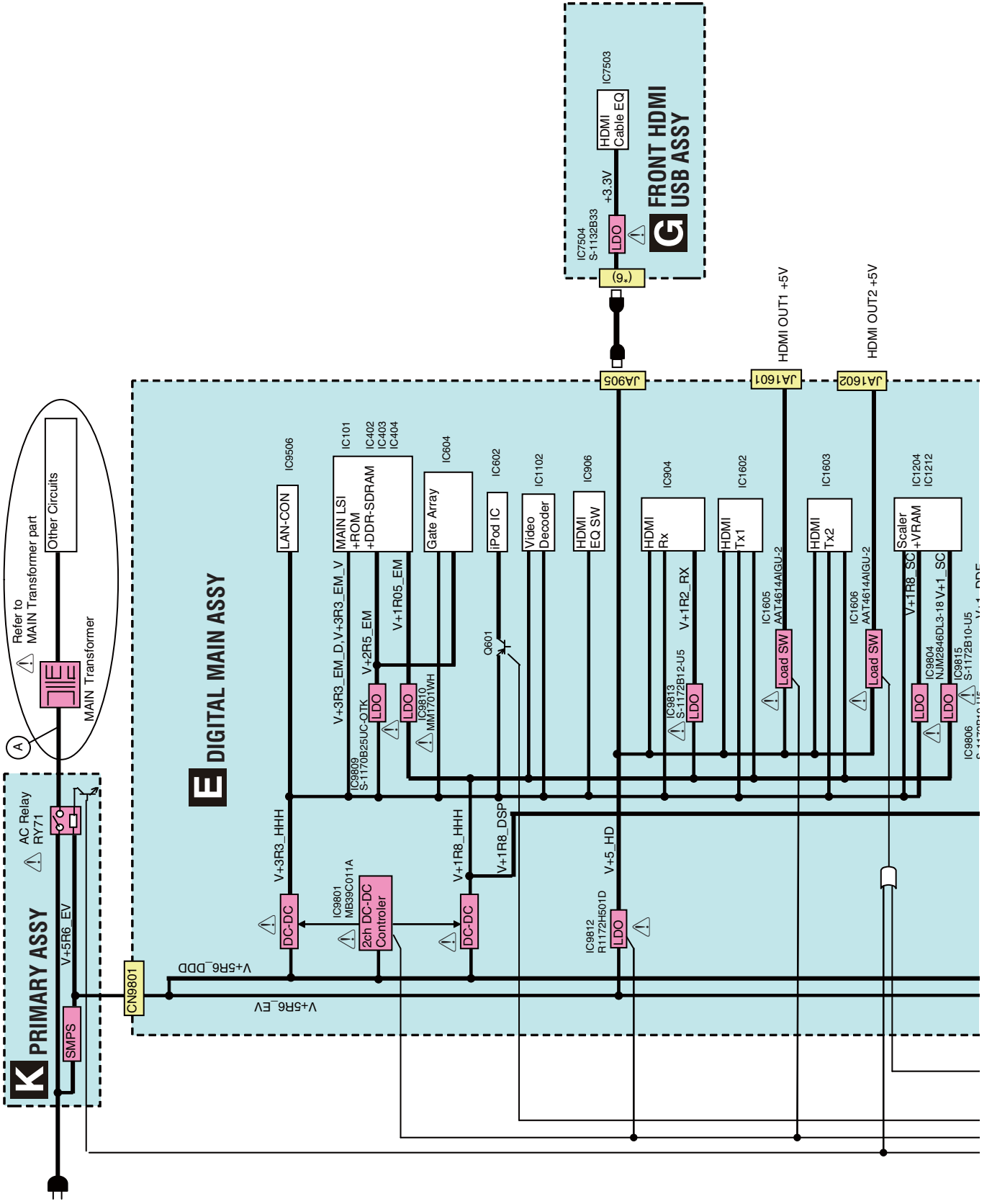


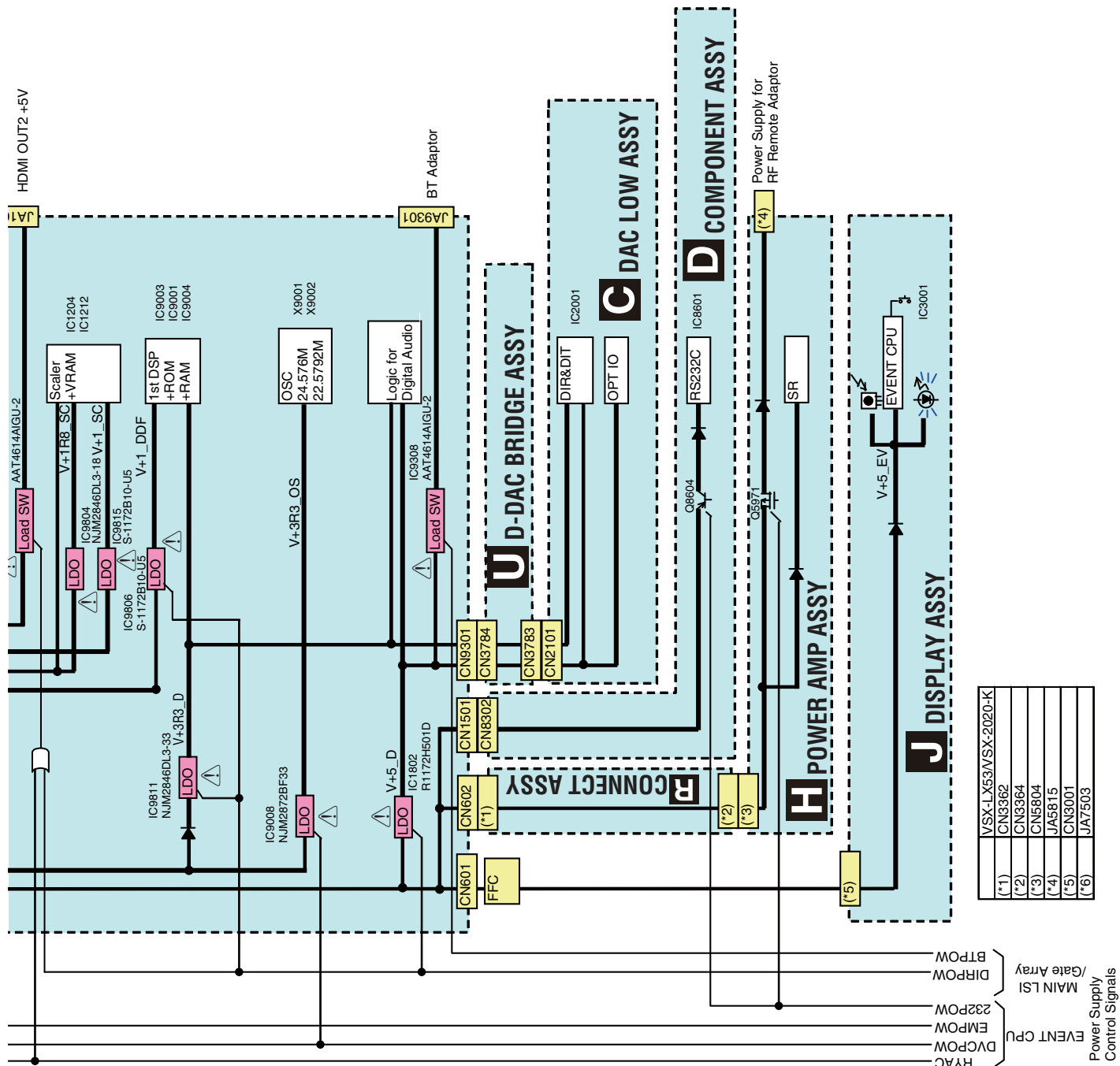
8



4.6 BLOCK DIAGRAM FOR POWER BLOCK(1)

Power Supply Block Diagram (SMPS Part)

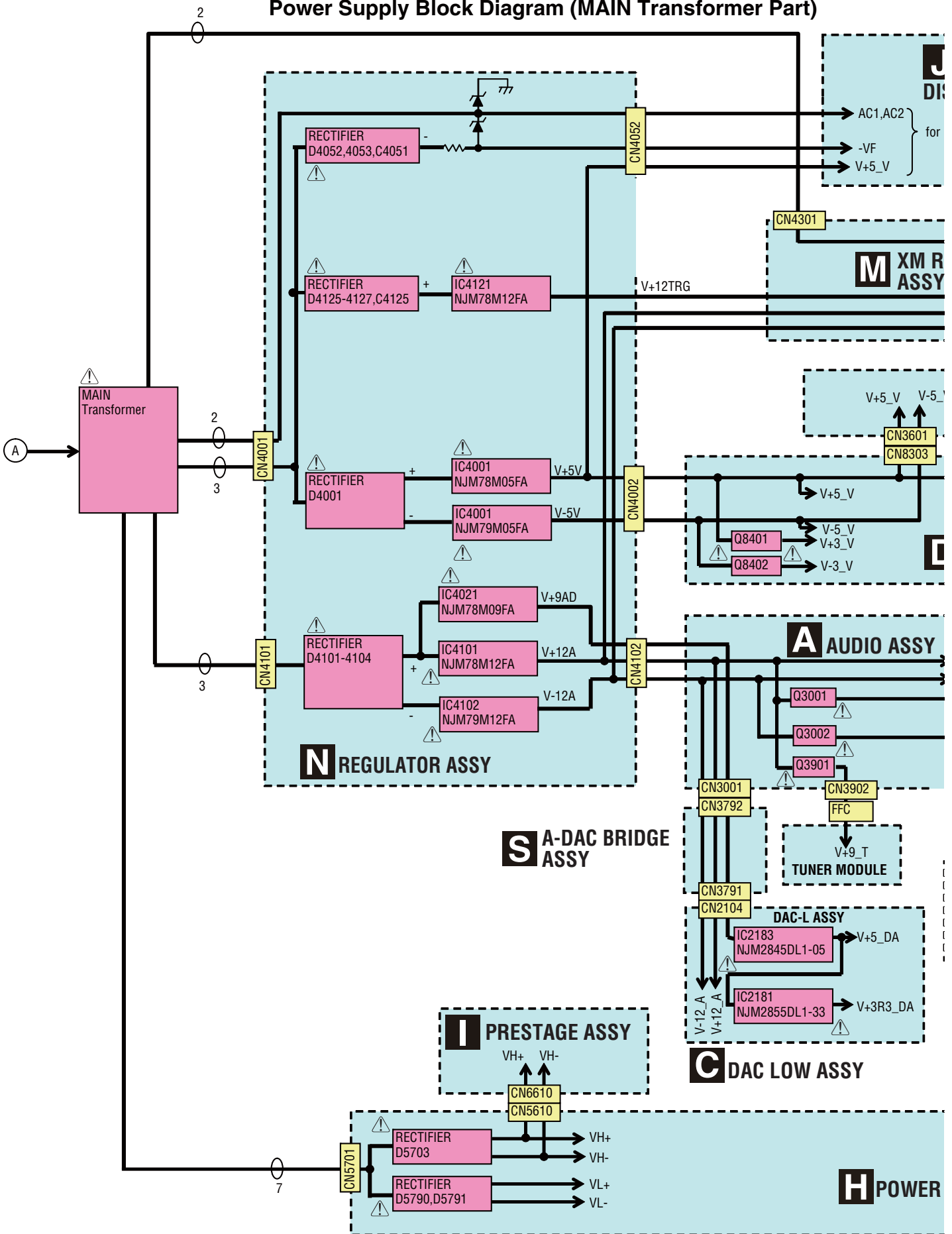




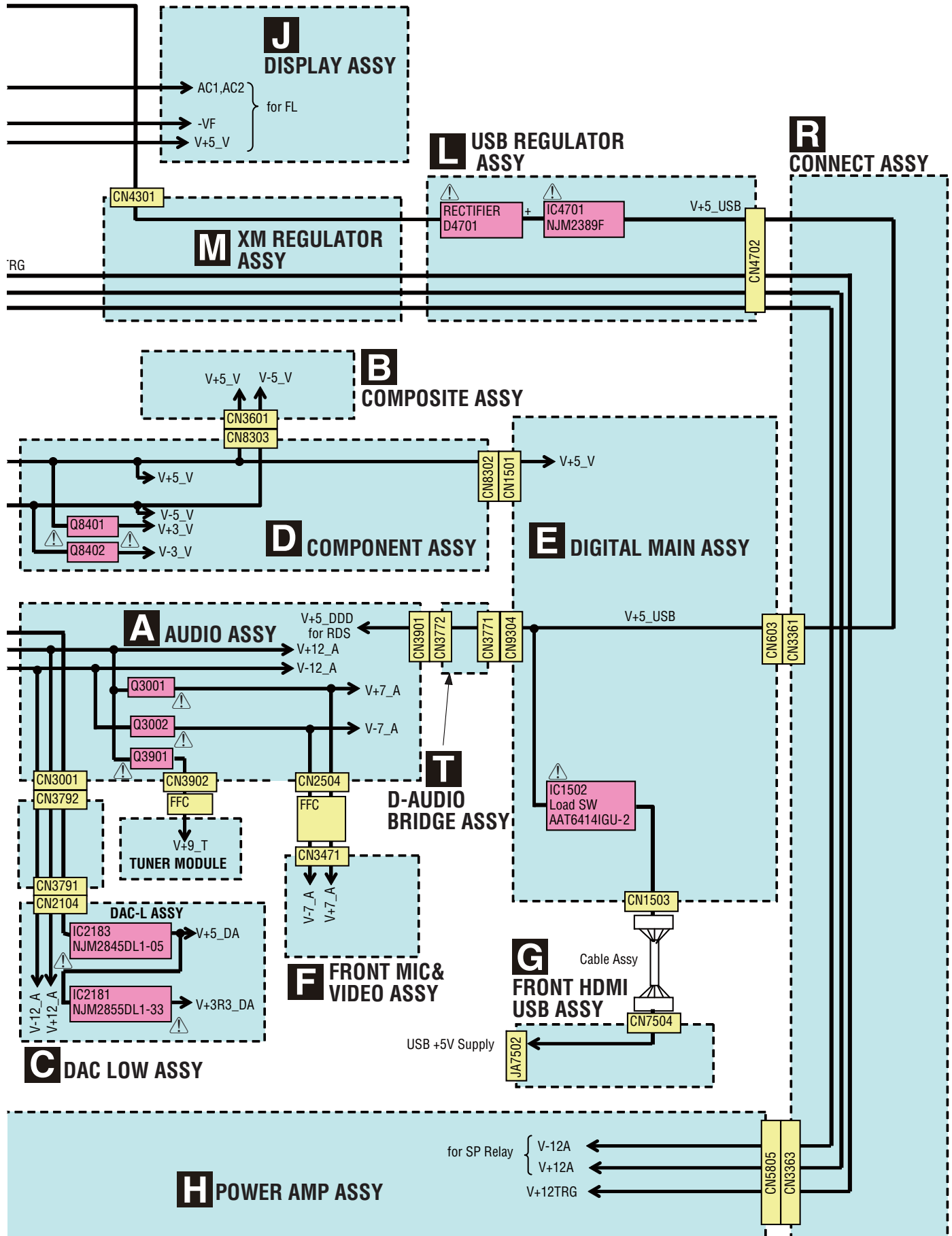
VSX-LX53/VSX-2020-K
(*1) CN3362
(*2) CN3364
(*3) CN5804
(*4) JA5815
(*5) CN3001
(*6) JA7503

4.7 BLOCK DIAGRAM FOR POWER BLOCK(2)

Power Supply Block Diagram (MAIN Transformer Part)



nsformer Part)



A
B
C
D
E
F

5. DIAGNOSIS

5.1 DIAGNOSIS FLOWCHART

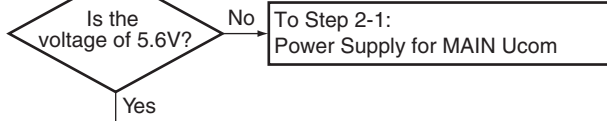
COMMON Troubleshooting with “No power problem”

- Please use additional Service Manual (RRV4134) to find out location of component part on any assemblies. The SM is easy to find location of component part to use [Search] function of Acrobat software.

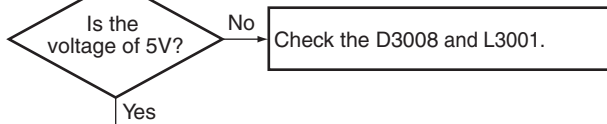
Step 1: EVENT Ucom

Step 1-1: EVENT Ucom (Display Assy)

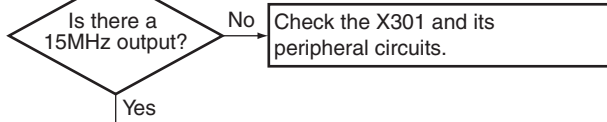
CN3001 (Pins 38,39) V+5R6_EV



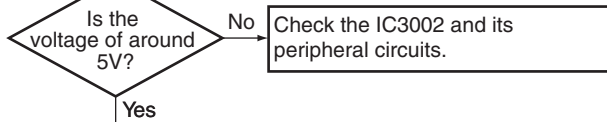
IC3001 (Pin 40) V+5_EV



IC3001 (Pins 12,13) 15MHz X301

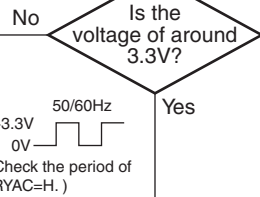


IC3001 (Pin 8) XRESET

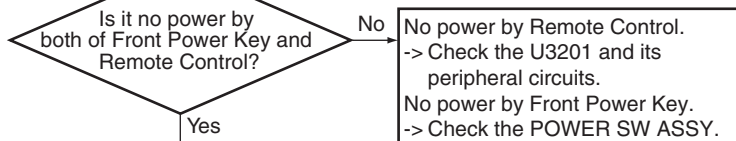


Yes, but shut down soon

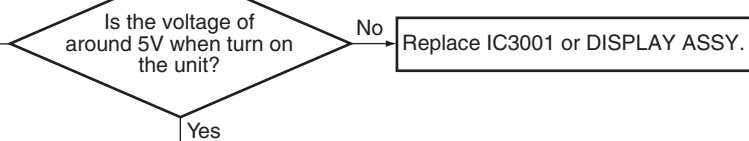
IC3001 (Pin 65) ACWP



Check the REGULATOR ASSY(ACWP)



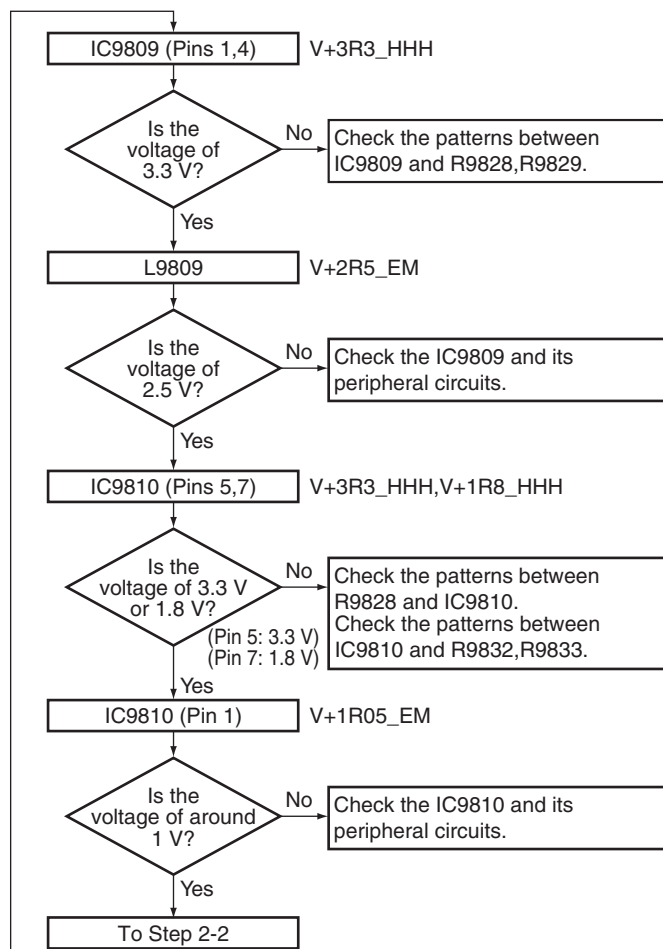
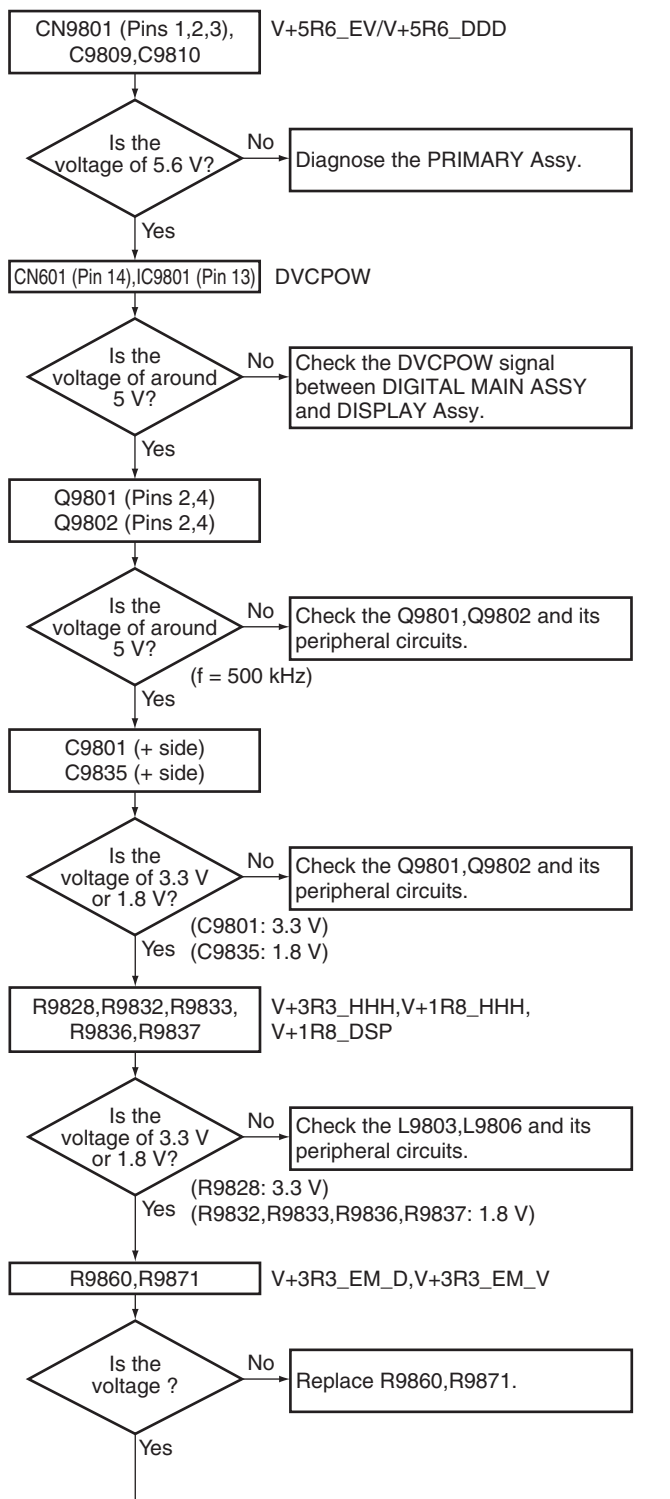
IC3001 (Pins 41,62) Pin 41:DVCPower Pin 62:ACRY



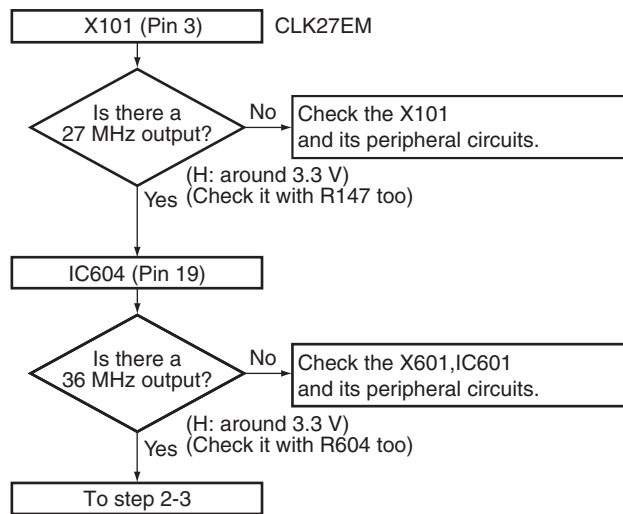
To Step 2-1

Step 2: MAIN Ucom (EMMA IC)

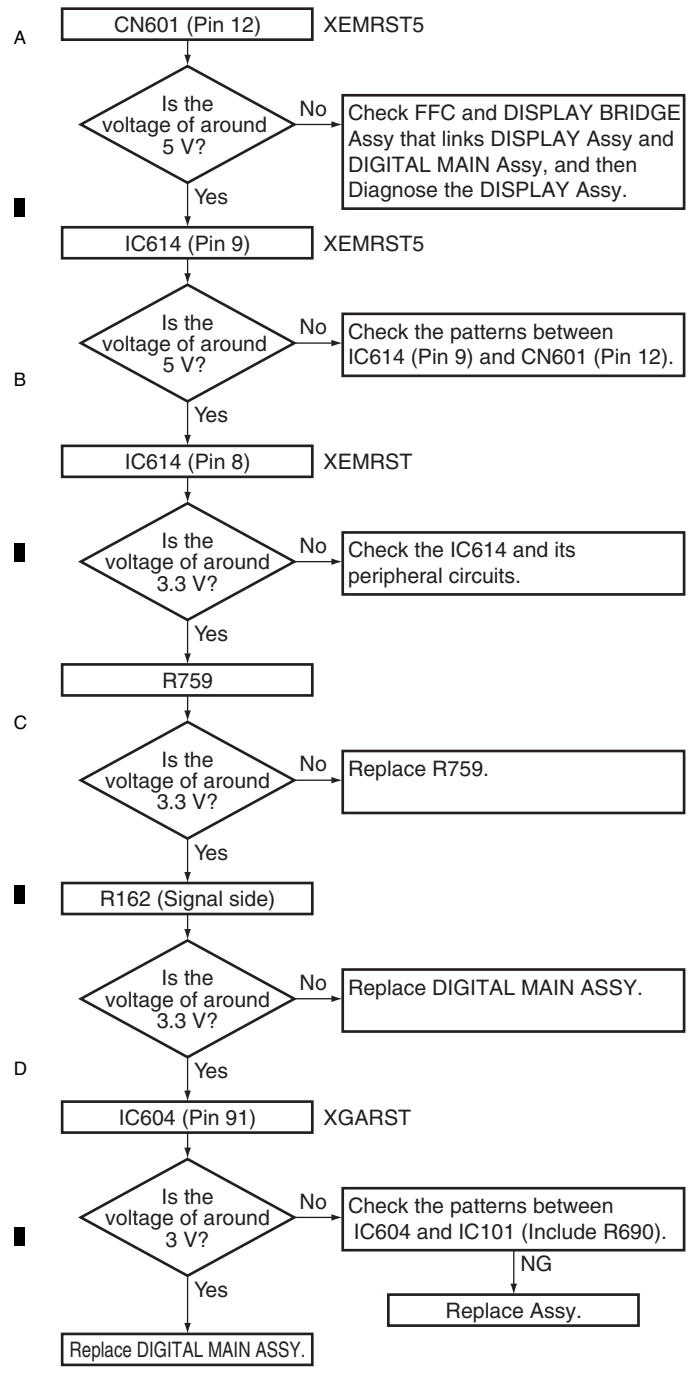
Step 2-1: POWER SUPPLY for MAIN Ucom



Step 2-2: Xtal for MAIN Ucom



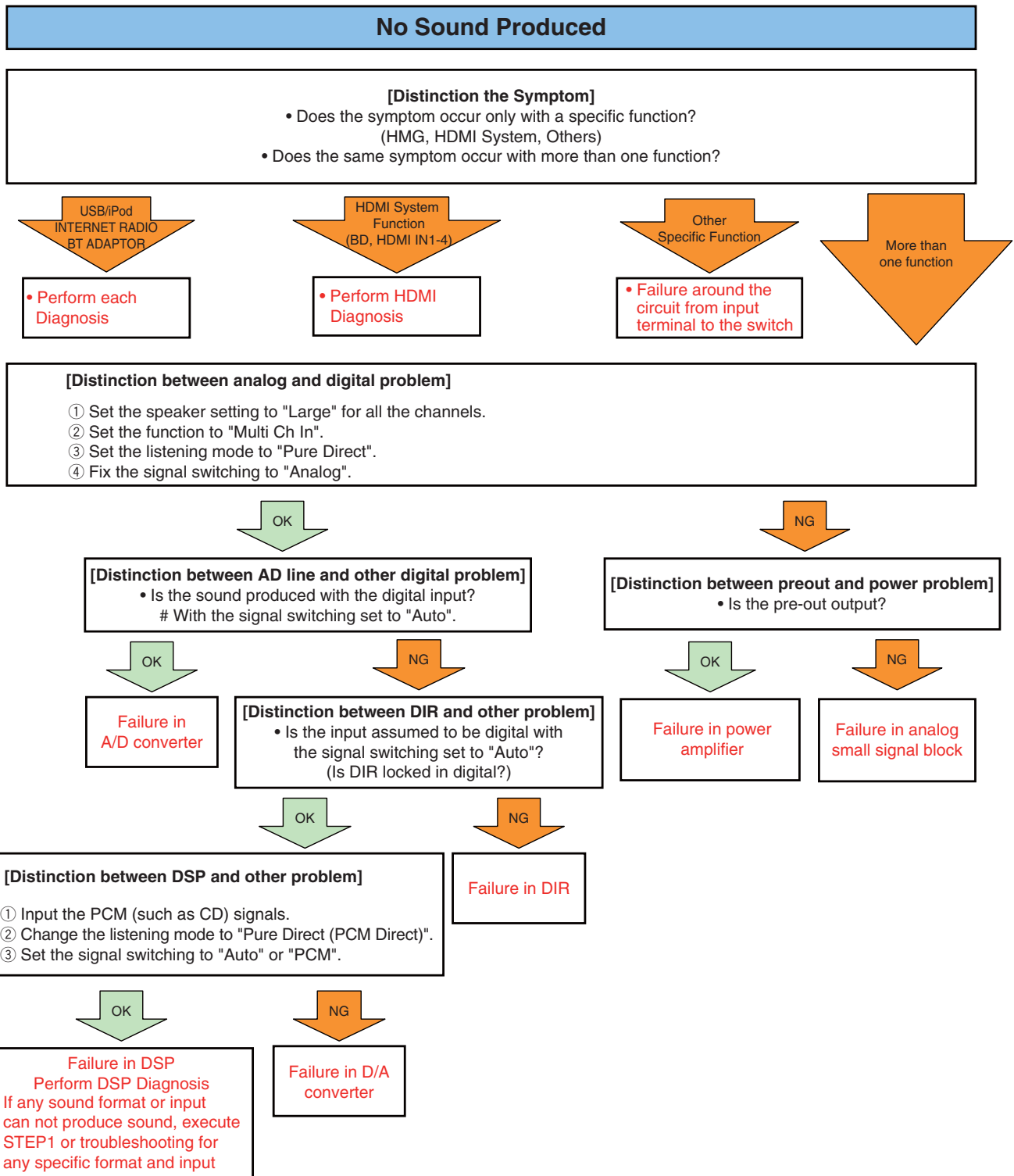
Step 2-3: Reset for MAIN Ucom



E

F

■ Audio Section Troubleshooting



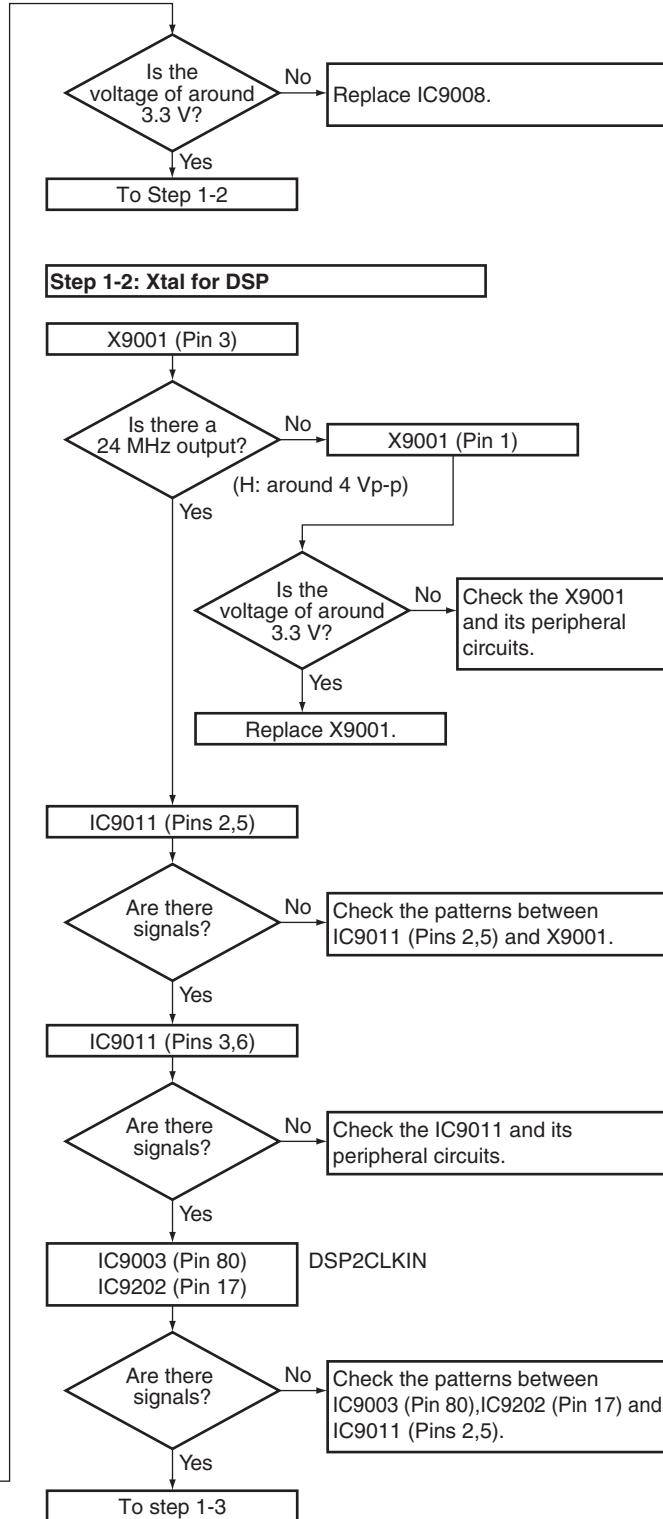
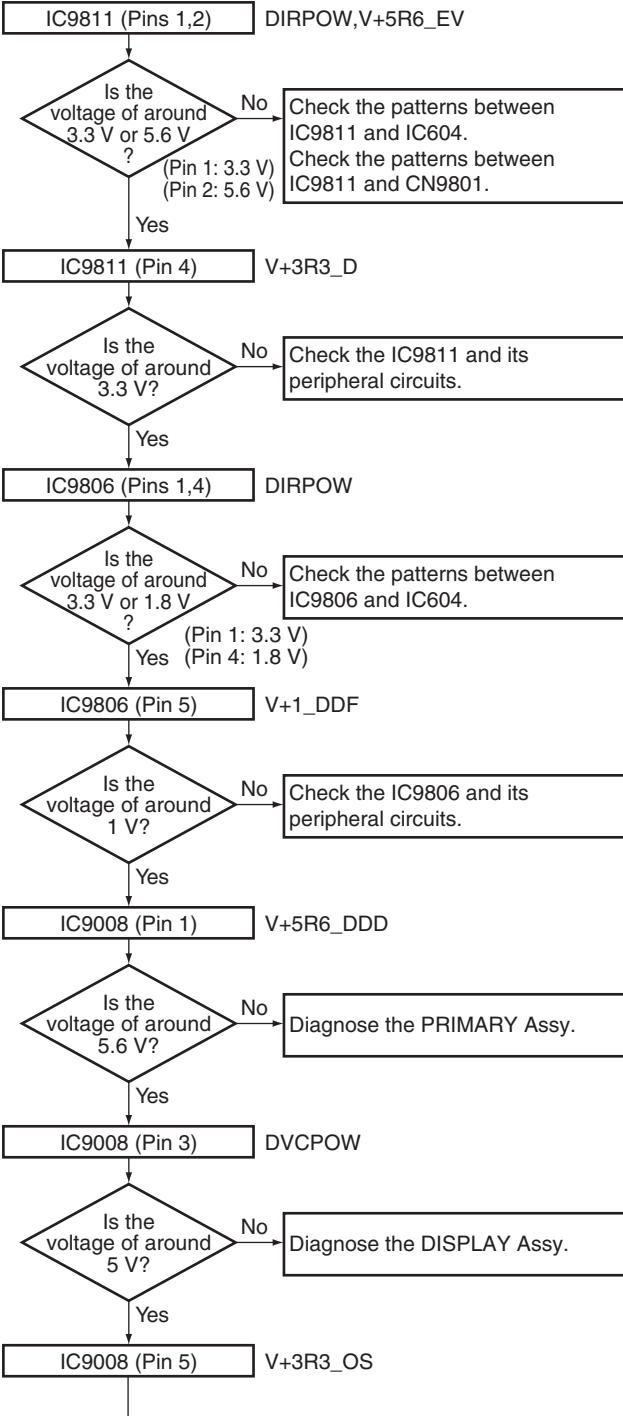
Failure in DIR

DSP&AUDIO Troubleshooting

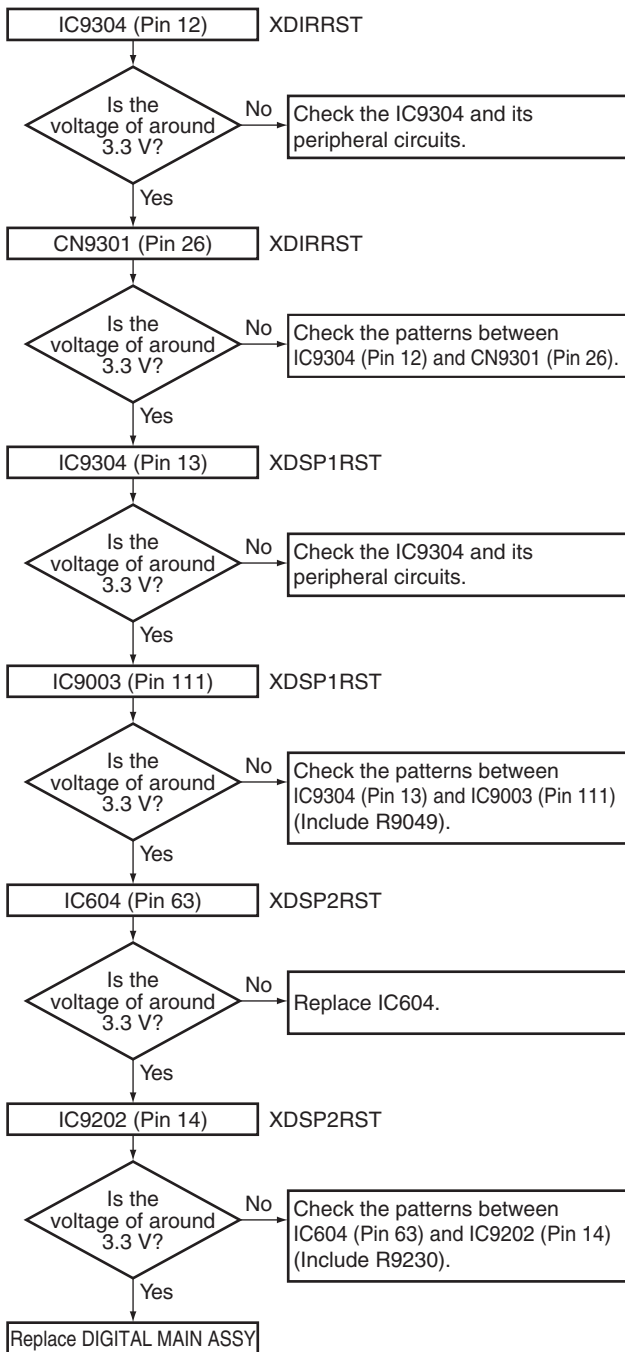
- Any type of signals have no sound, follow Step 1 to Step 3
- Only specific type of signal has no sound, follow an appropriate troubleshooting to the symptom.
- The confirmation of peripheral circuits in the flowchart means the checking of the power supply directly at the pin of the IC, the conduction and resistance value check, and the checking of the solder.
- The confirmation of the pattern in the flowchart means the diagnosis including the one for the resistors on the pattern.
- During the diagnosis, pay attention to the switching of output from 2ch to Multi ch by the listening mode of IC9003.

Step 1: DSP/AUDIO

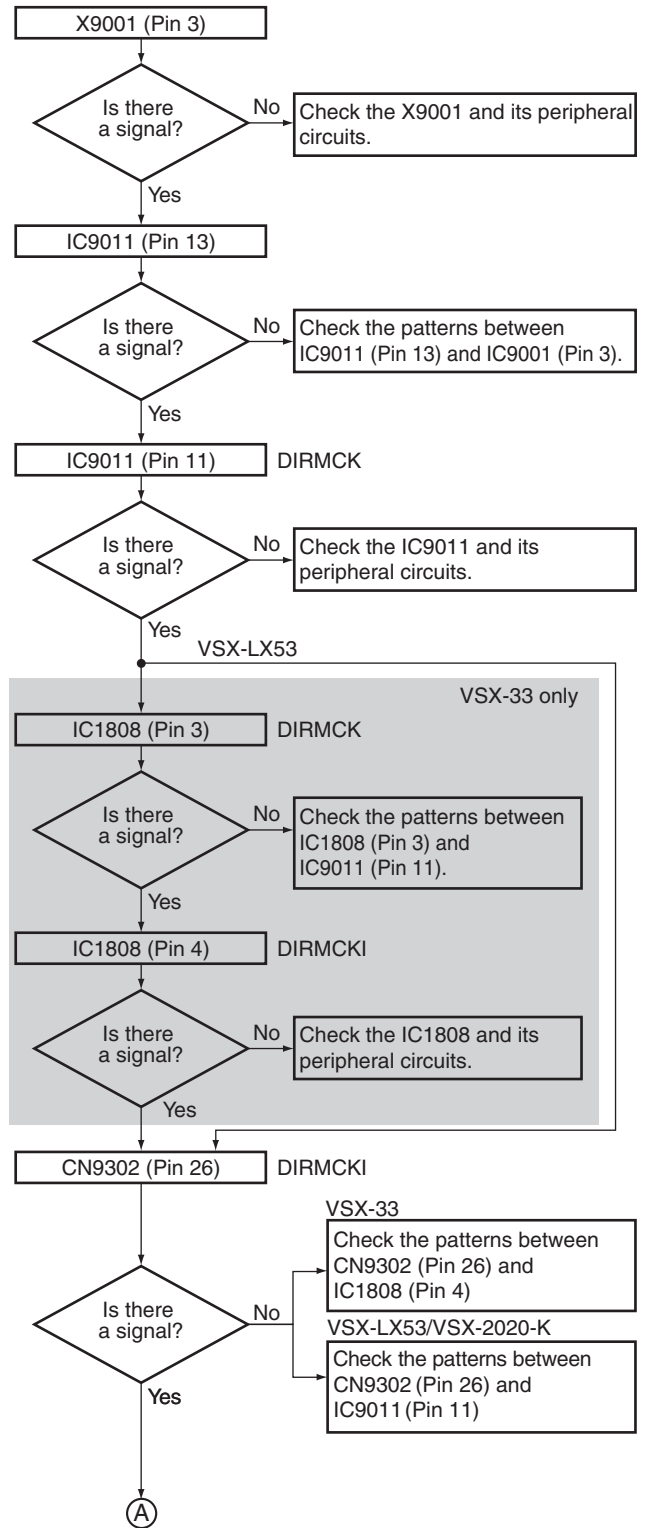
Step 1-1: POWER SUPPLY for DSP

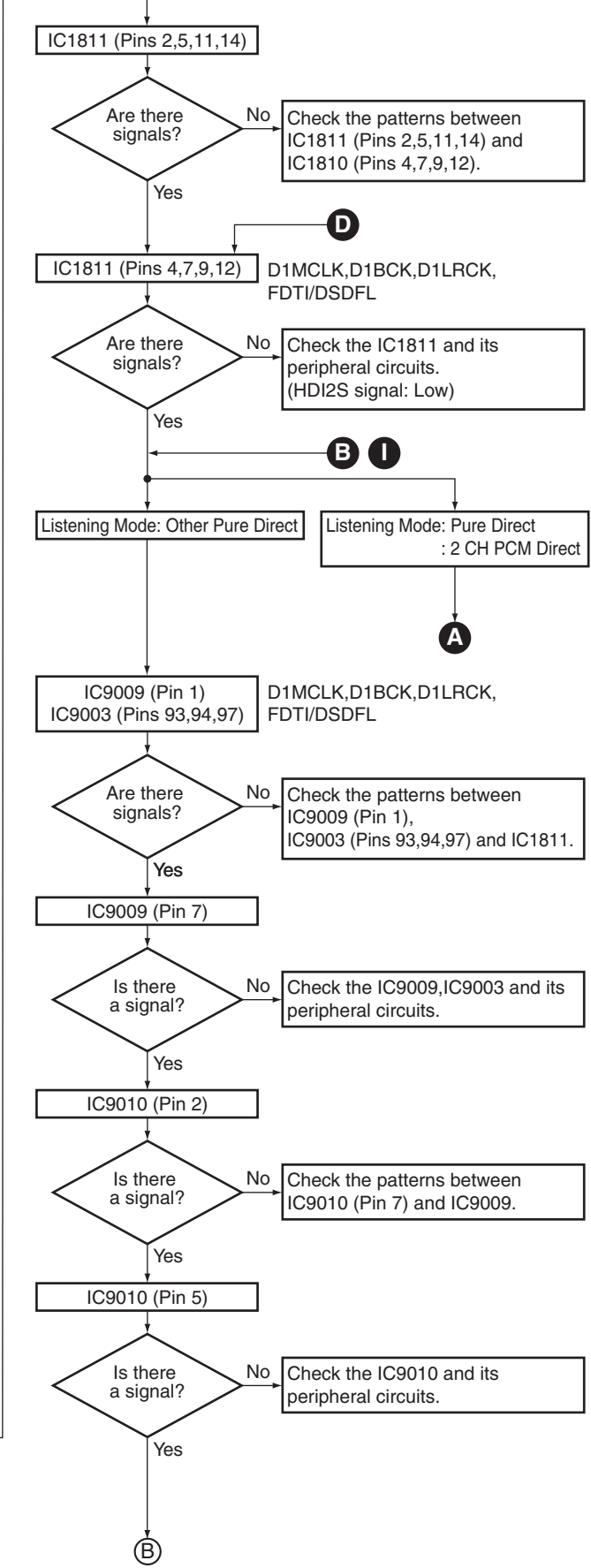
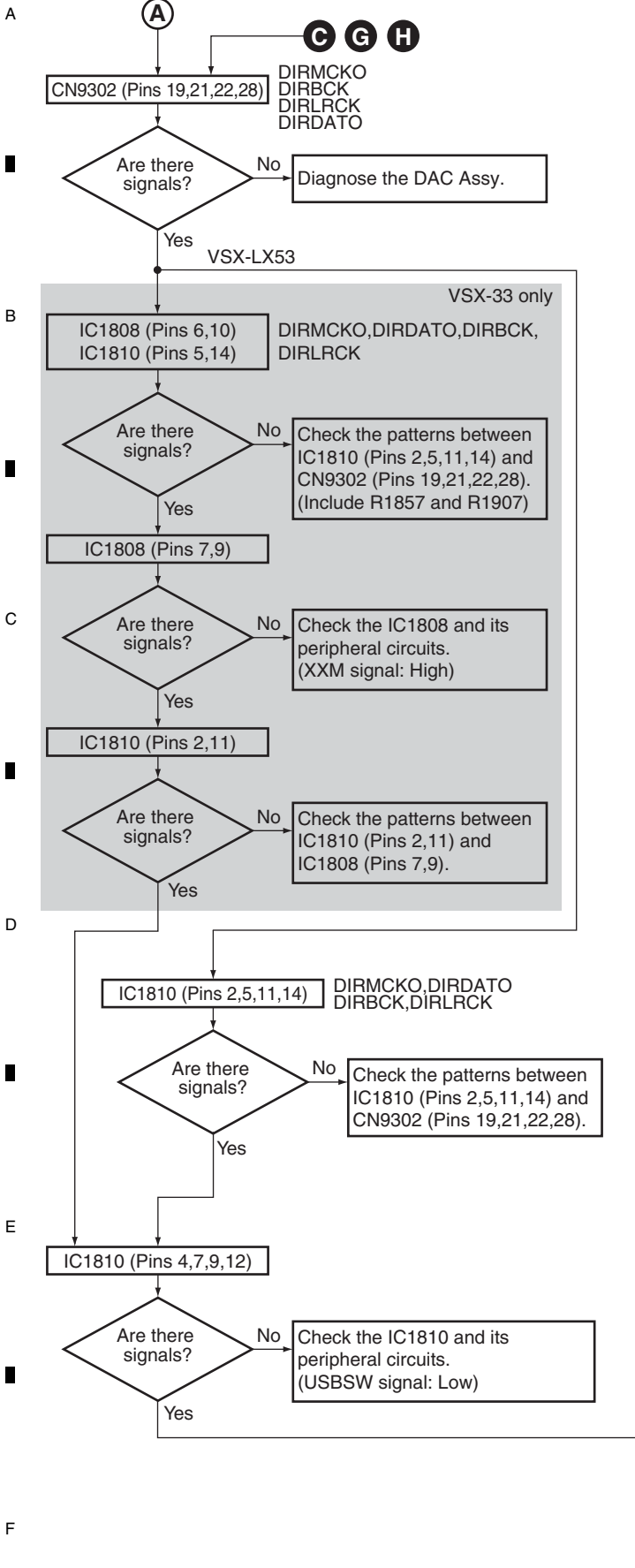


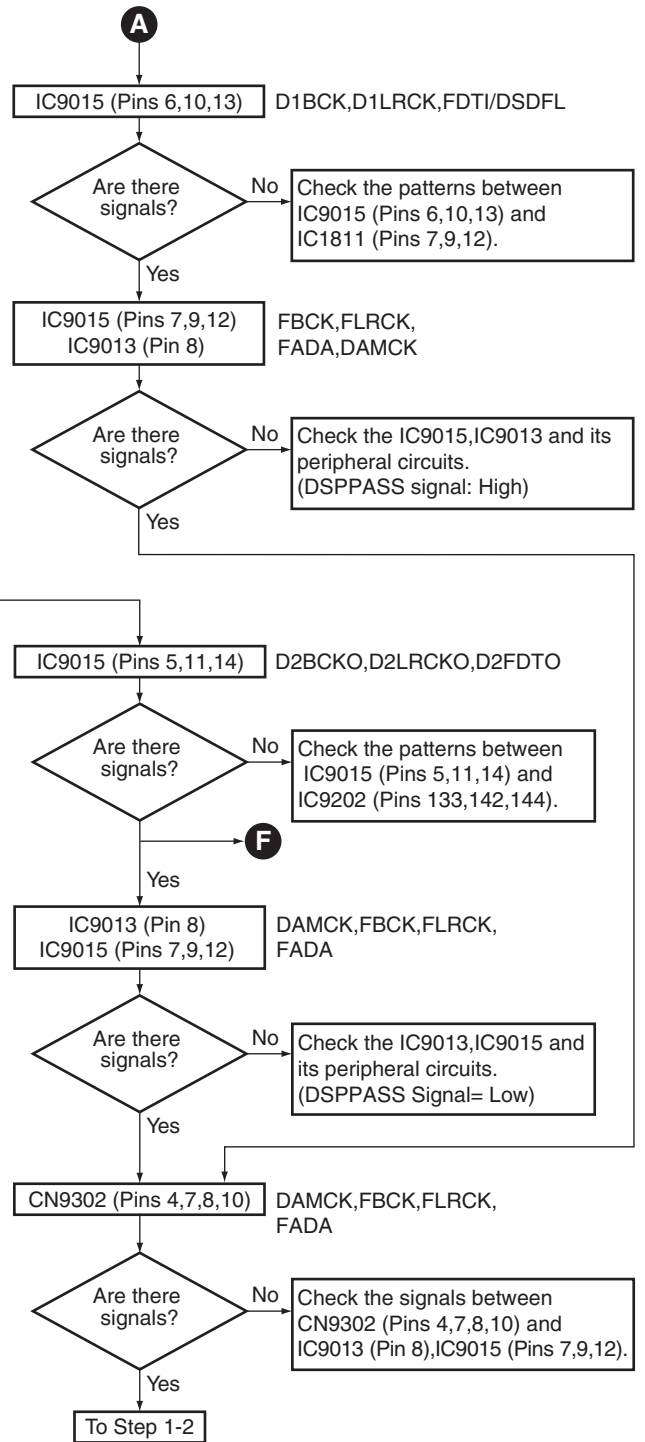
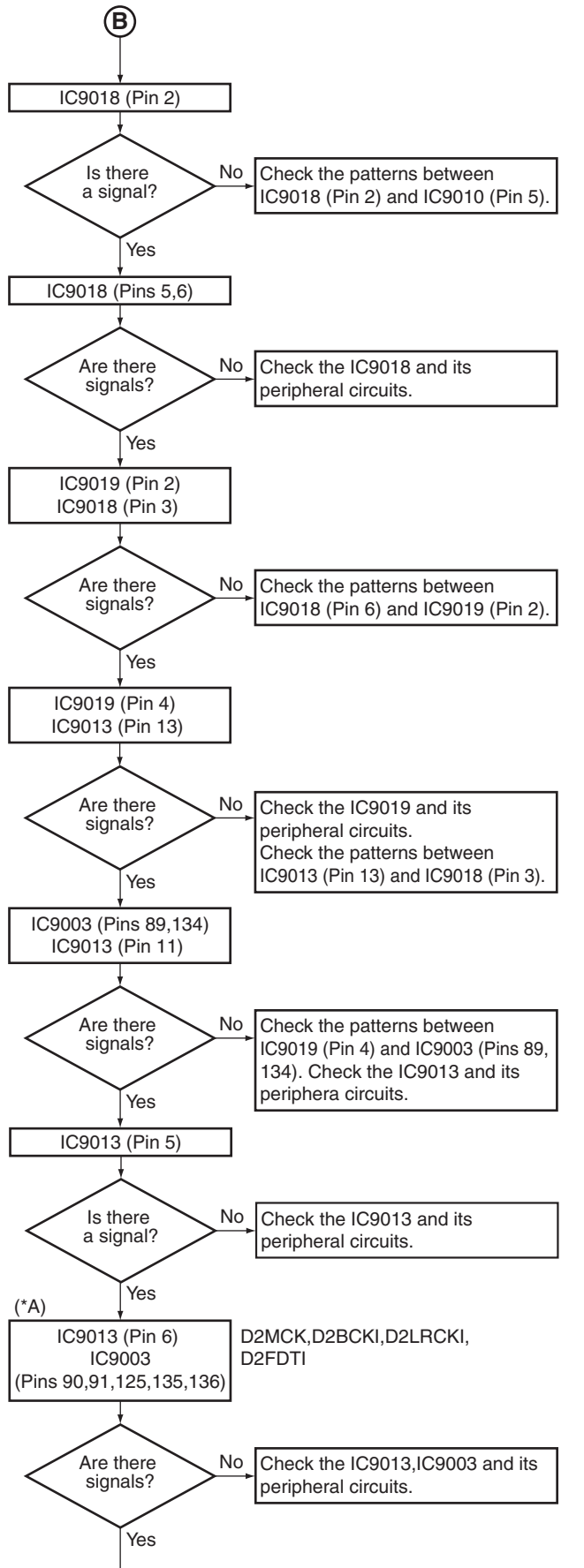
Step 1-3: Reset for DSP



Step 1-4: Coaxial/Optical/AD IN (STEREO)

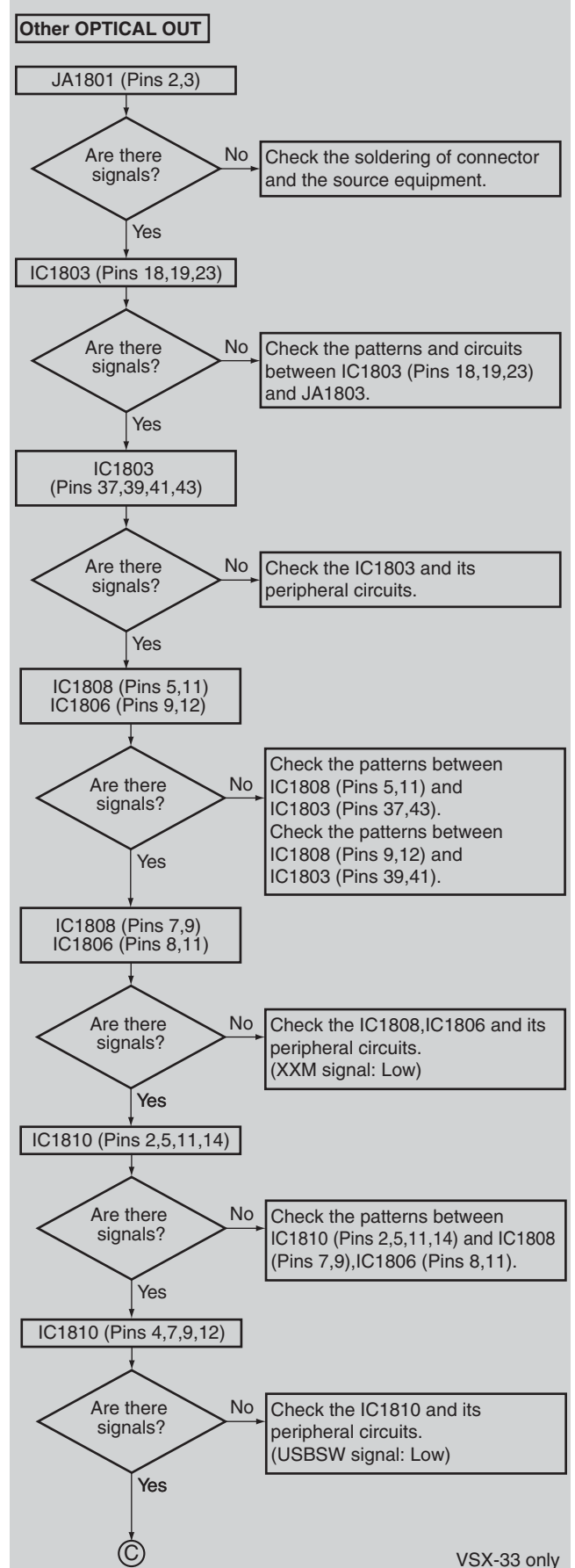
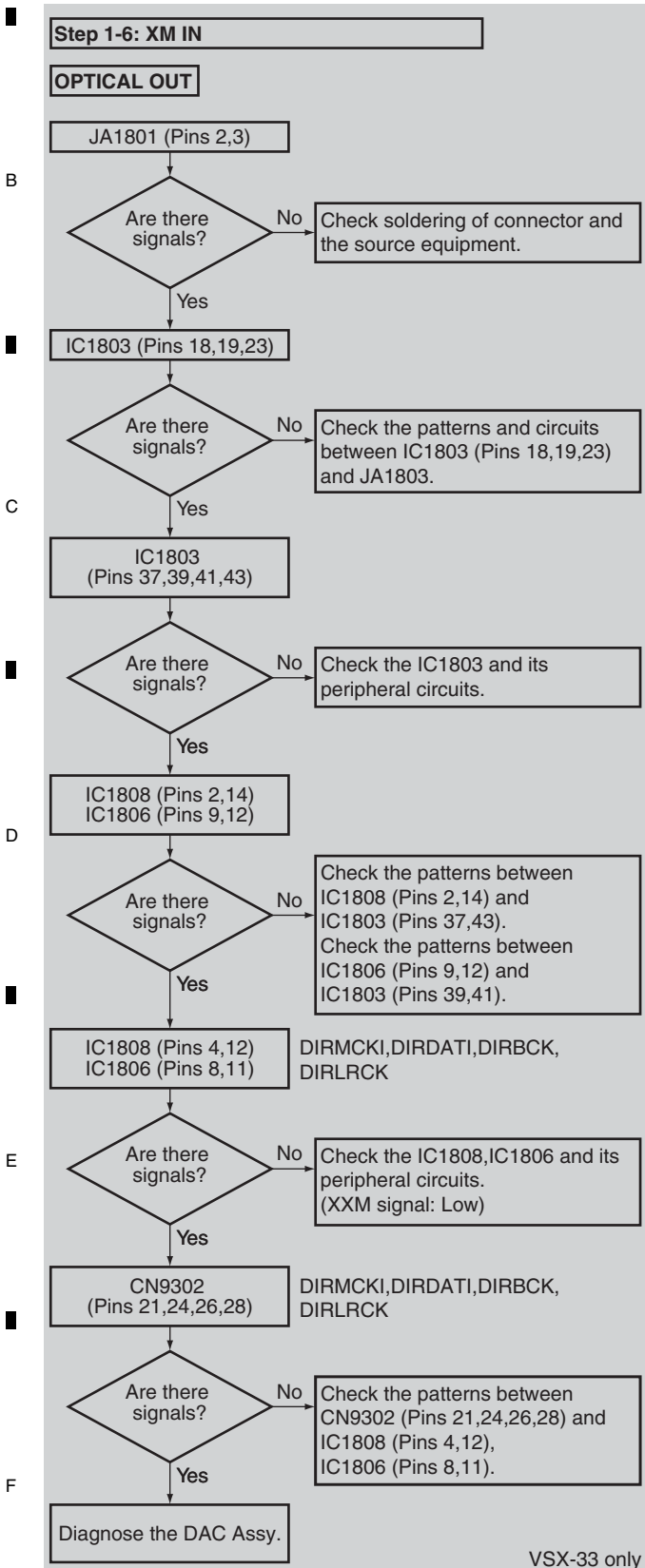


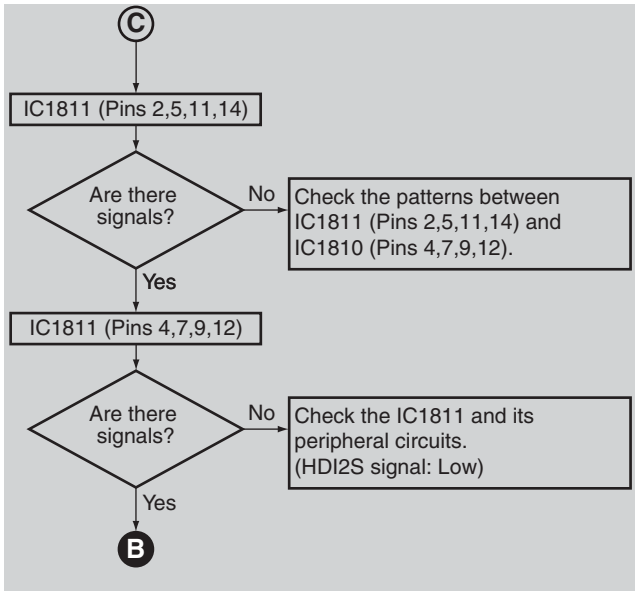




**Step 1-5: Multi CH SOURCE INPUT
(compression system such as DTS and Dolby)**

Diagnose D2CDTI, D2SDTI, and D2BDTI additionally in the step 1-4*A. For the following steps, diagnose the center, surround and surround back ch additionally in a same way.

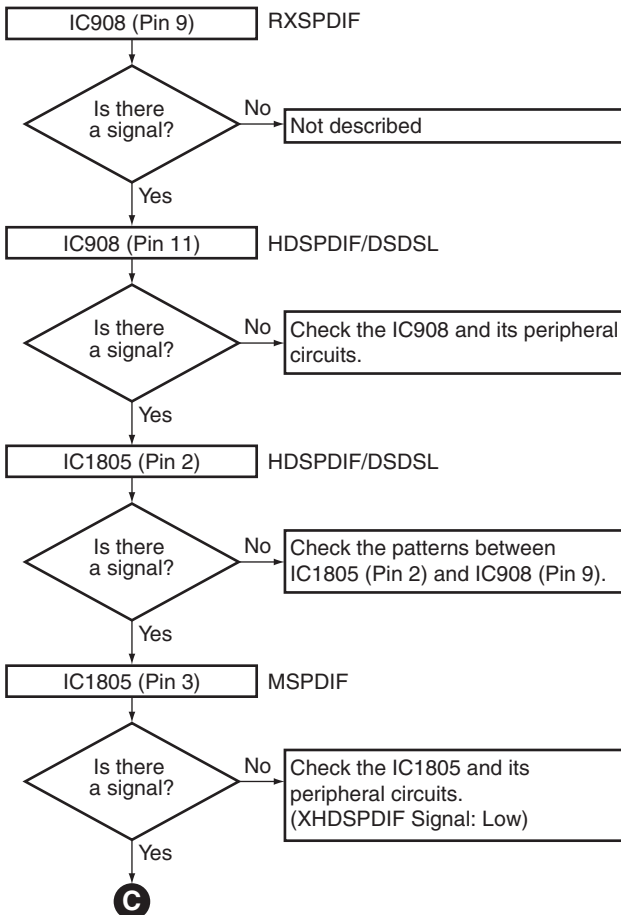




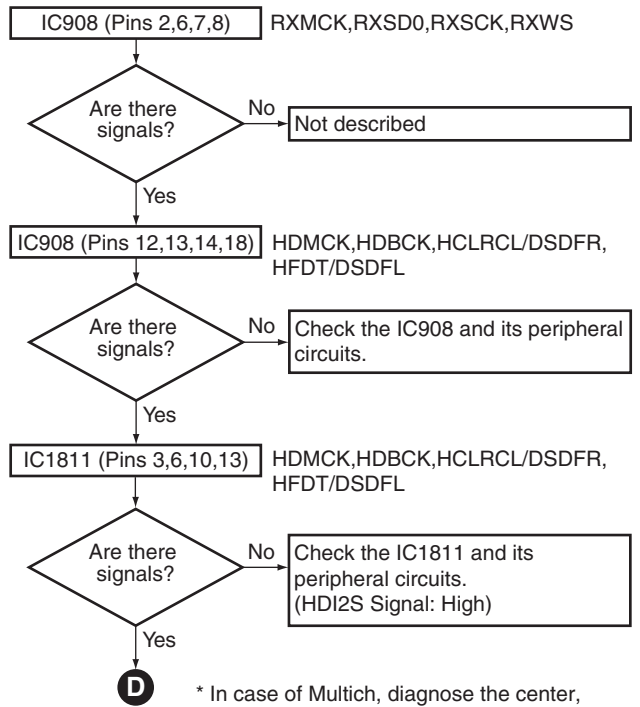
Step 1-7: HDMI

Refer to additional document "Condition of SPDIF or I2S Output Selection " which shows what type of format has SPDIF or I2S signals.

SPDIF

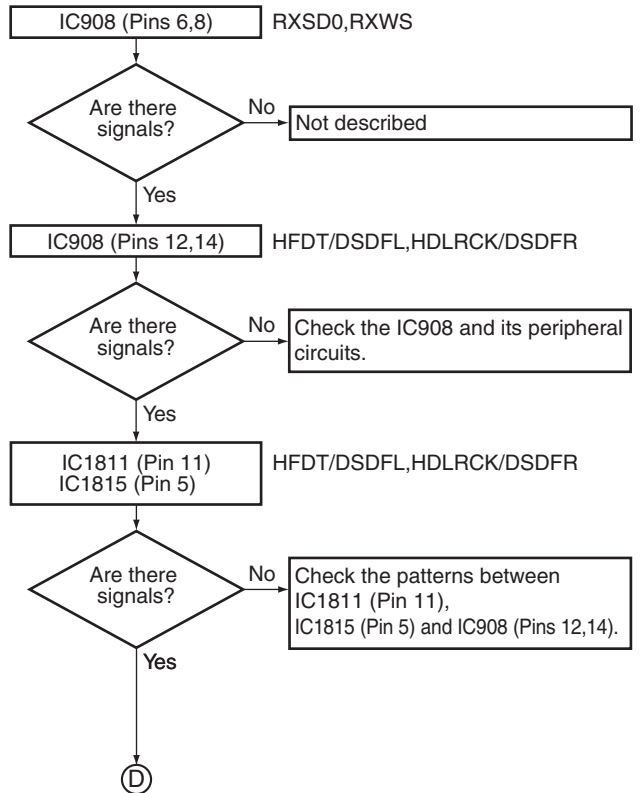


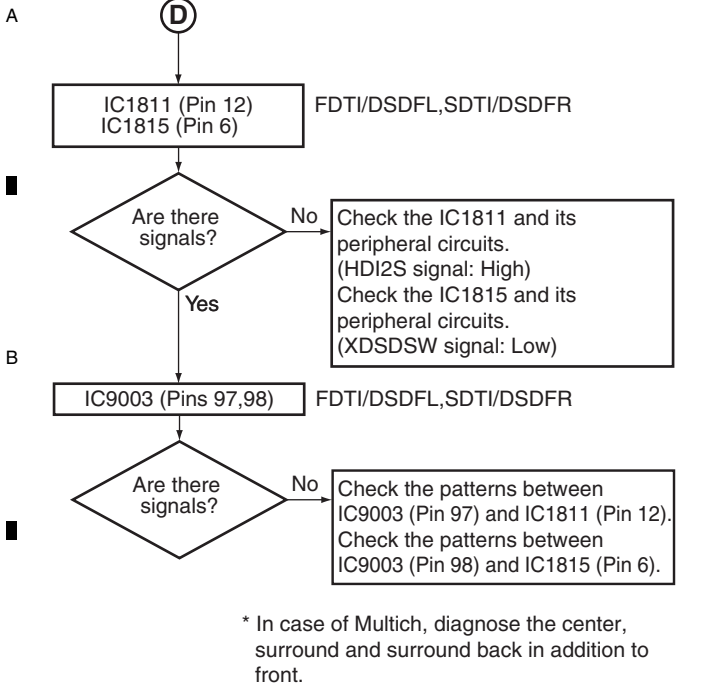
2ch I2S



* In case of Multich, diagnose the center, surround and surround back in addition to front.

2ch DSD

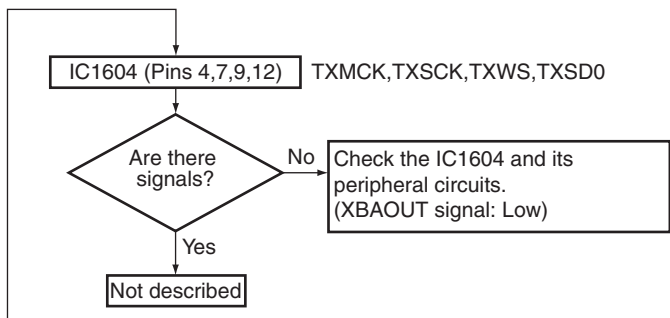
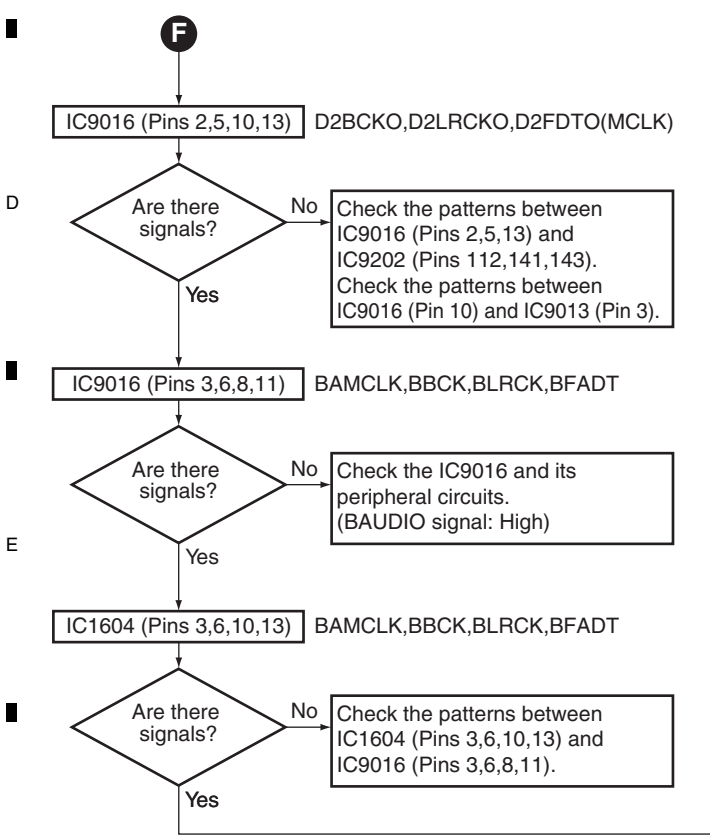




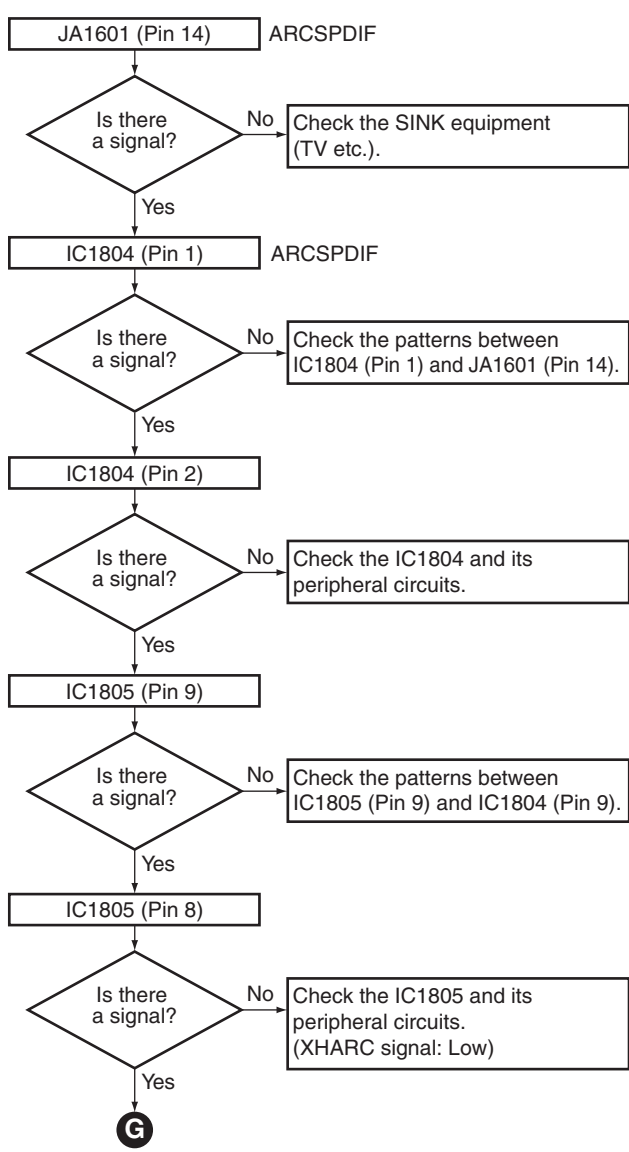
C

BASIC AUDIO (2ch LPCM fs = 44.1 kHz,48 kHz)

Diagnose SPDIF or 2ch I2S and make following diagnoses after the Step1-4 **F** or later.

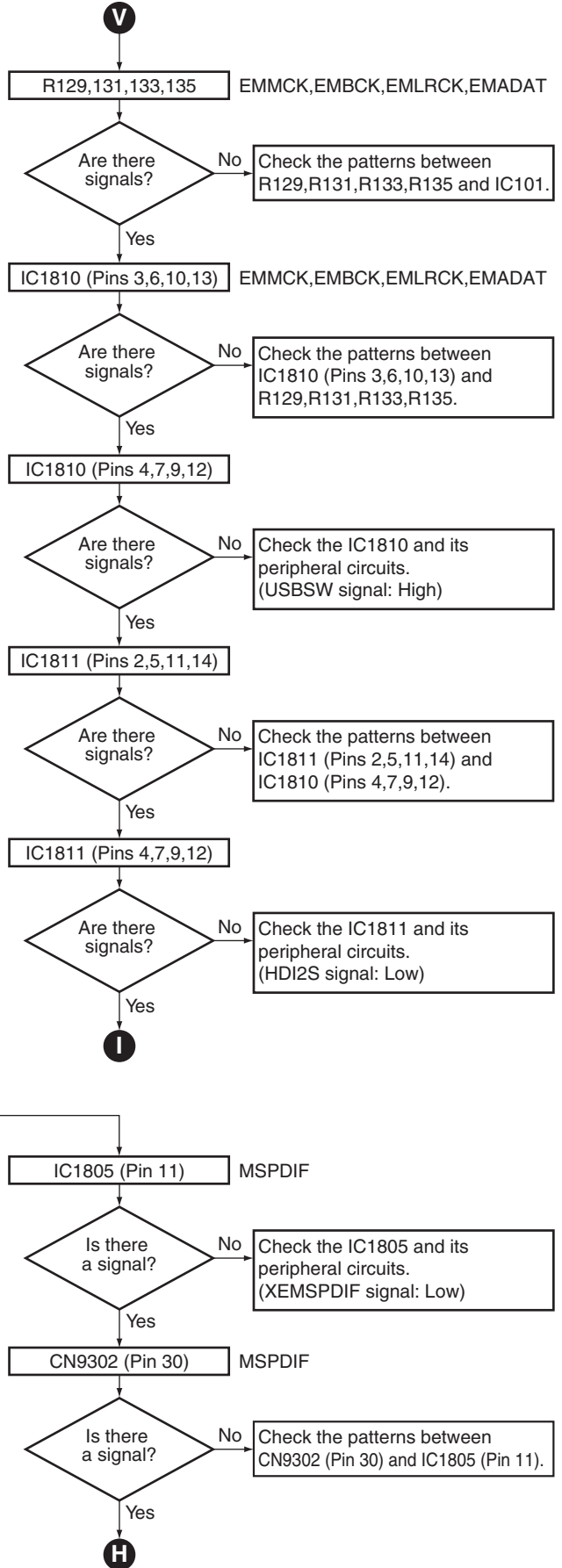
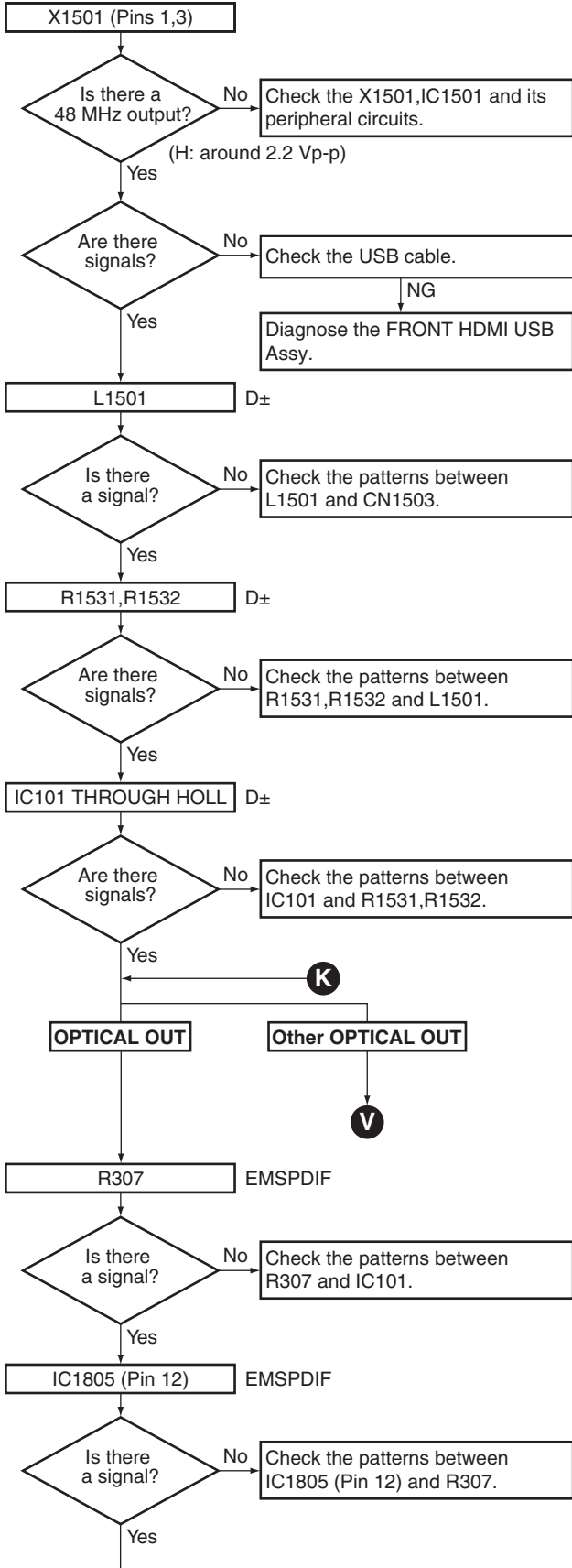


ARC ASC : Audio Return Channel
This is one of HDMI ver1.4a functions.
Refer to IM "TV Audio setting" of "Control with HDMI function "

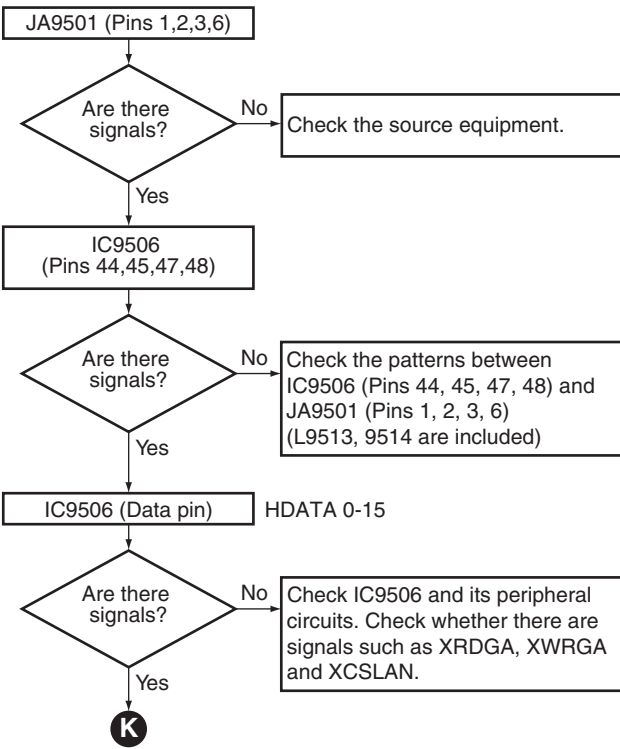


F

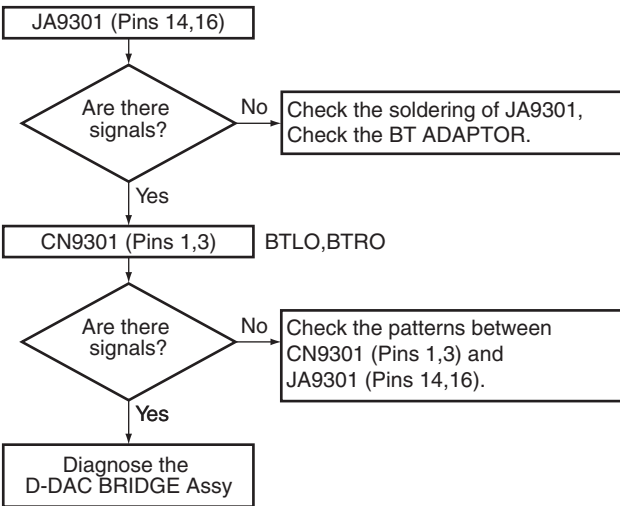
Step 1-8: USB/iPod



Step 1-9: INTERNET RADIO

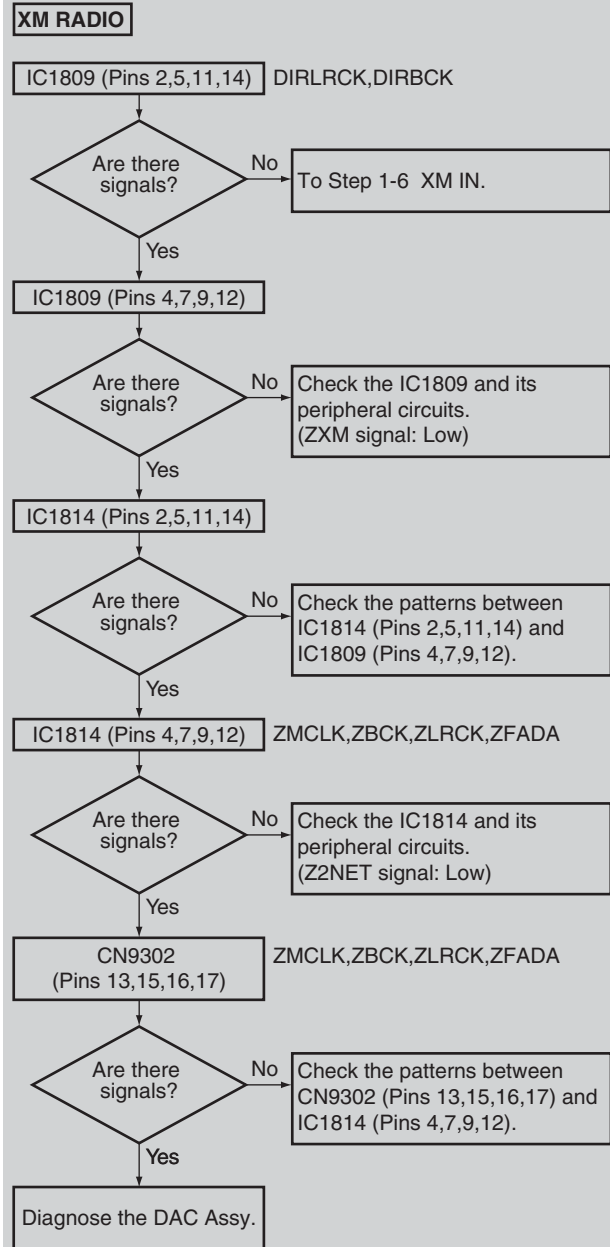


Step 1-10: ADAPTOR PORT (BLUETOOTH)



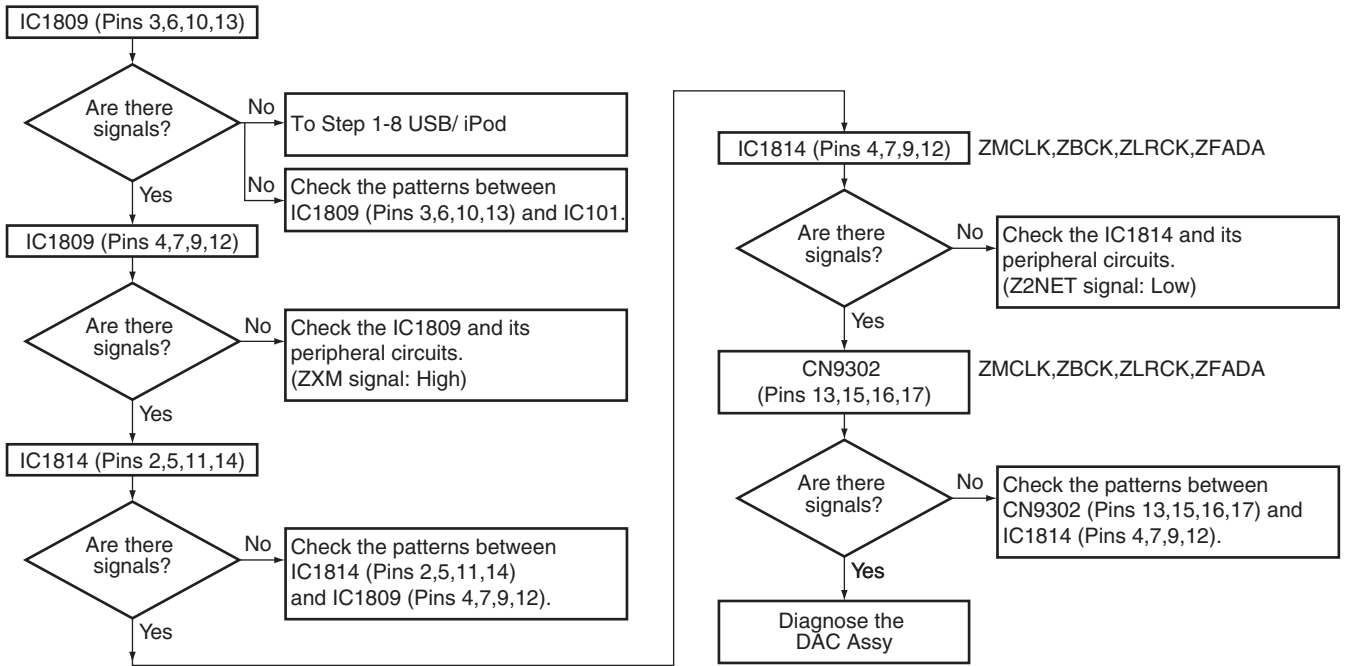
Step 1-11: ZONE (XM RADIO(VSX-33 only),USB/iPod)

* The sound should be properly output in MAIN room.



VSX-33 only

USB/iPod



Condition of SPDIF or I2S output selection (HDMI transmission)

PCM	fs(kHz)	Layout	SPDIF	I2S(3Line)
Compression. DVD-V	48	2ch	o	x
Compression*. WAV	44	2ch	o	x
	48	2ch	o	x
dts-CD	44	2ch	o	x
PCM	44	2ch	o	x
	48	2ch	o	x
DVD-V	96	2ch	x	o
LPCM	44	2ch	o	o
		Multi	x	o
	48	2ch	o	o
		Multi	x	o
	88	2ch	x	o
		Multi	x	o
DVD-A	96	2ch	x	o
		Multi	x	o
	176	2ch	x	o
		Multi	-	-
	192	2ch	x	o
		Multi	-	-

Cannot be distinguished

SACD	2ch	x	o	(DSD)
	Multi	x	o	(DSD)

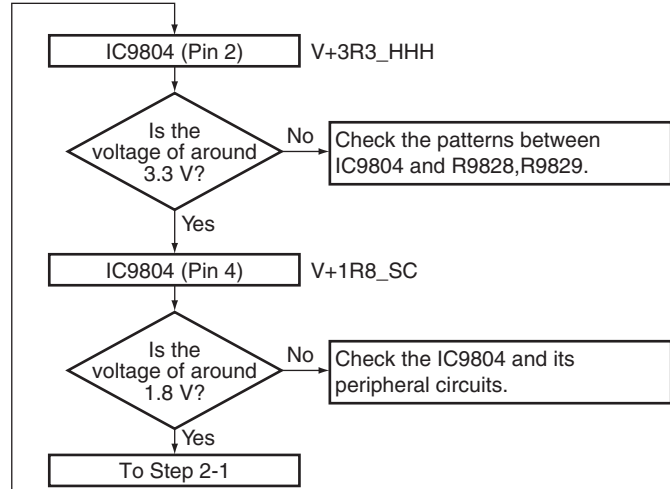
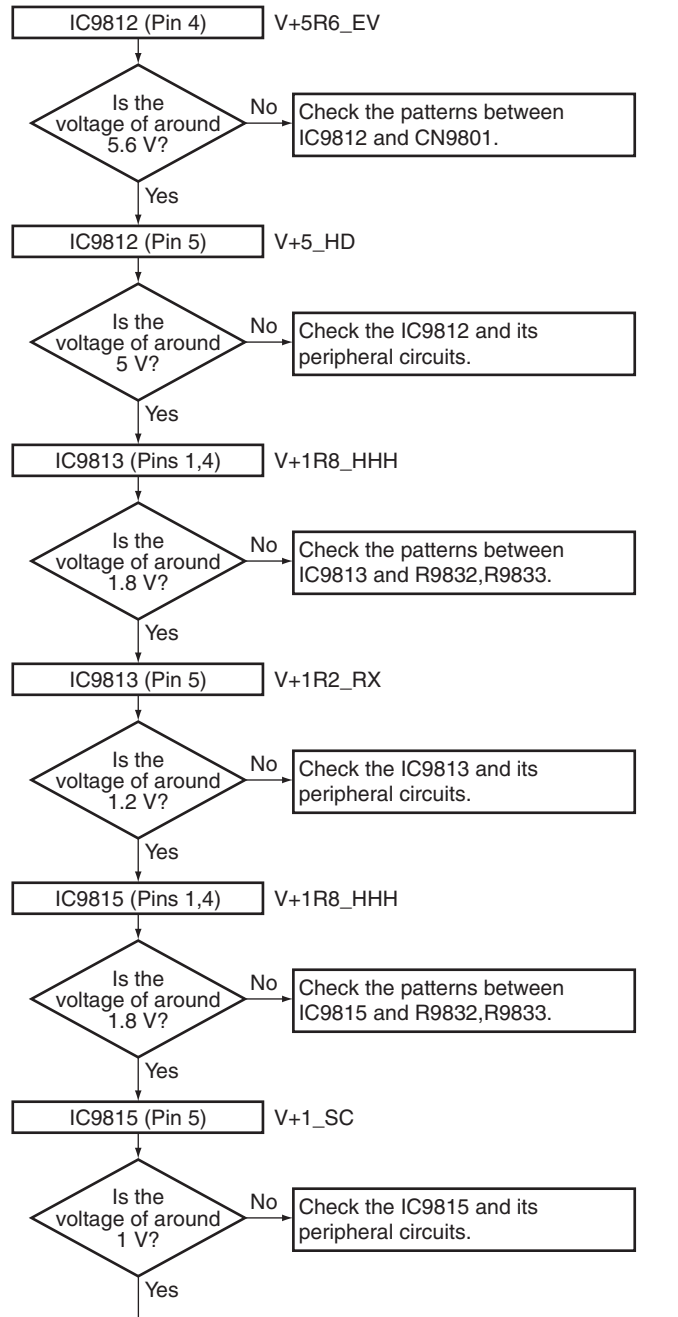
dts HD Master Audio	x	o
dts HD High Resolution Audio	o	x
dts HD LBR	o	x
Dolby TrueHD	x	o
Dolby Digital Plus	o	x

VIDEO Troubleshooting

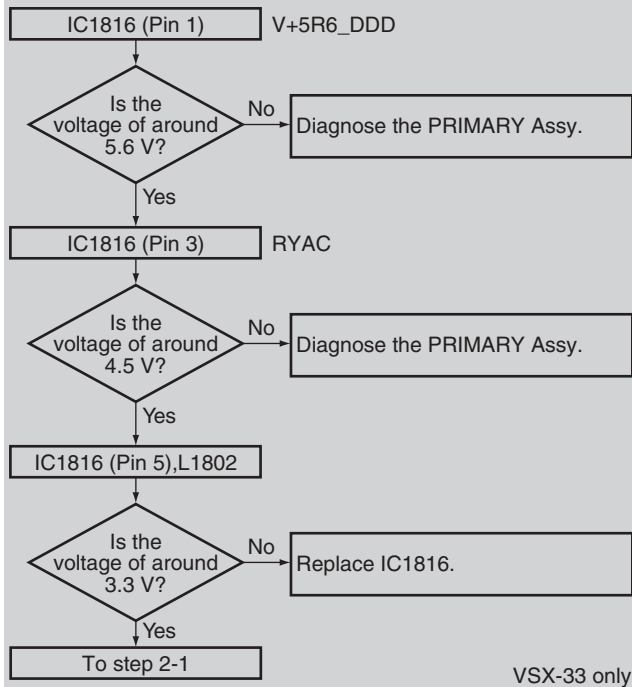
- If HDMI video signal does not output from HDMI OUT 1 or 2, but HOME MENU OSD can be displayed, go to Step 4-1 or 4-2.
- If an analog video signal does not output from analog video output even though Video Converter function is turning off, do not follow this troubleshooting, check analog input and output lines on COMPONENT ASSY or COMPOSITE ASSY. (In this case, type of input video signal and output video signal should be same. eg: IN:Composite OUT: Composite)
- The confirmation of peripheral circuits in the flowchart means the checking of the power supply directly at the pin of the IC, the conduction and resistance value check, and the checking of the solder.
- The confirmation of the pattern in the flowchart means the diagnosis including the one for the resistors on the pattern.

Step 1: POWER SUPPLY

Step 1-1: Power Supply Video



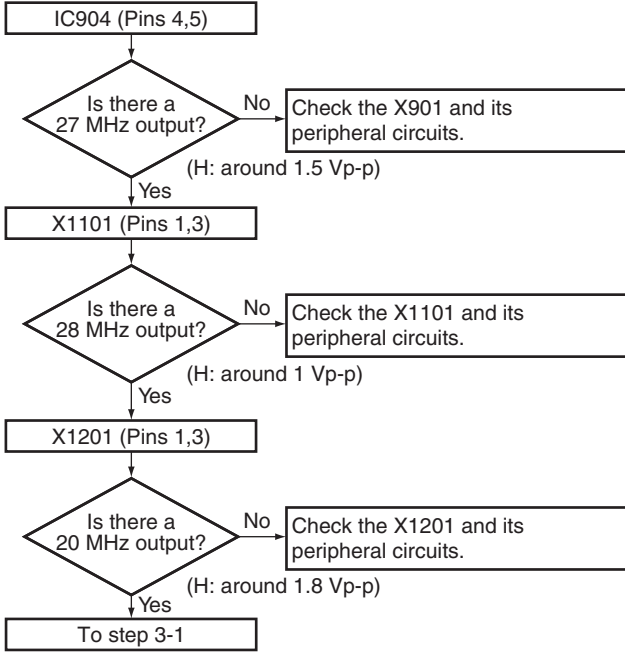
Step 1-2: Power Supply XM



VSX-33 only

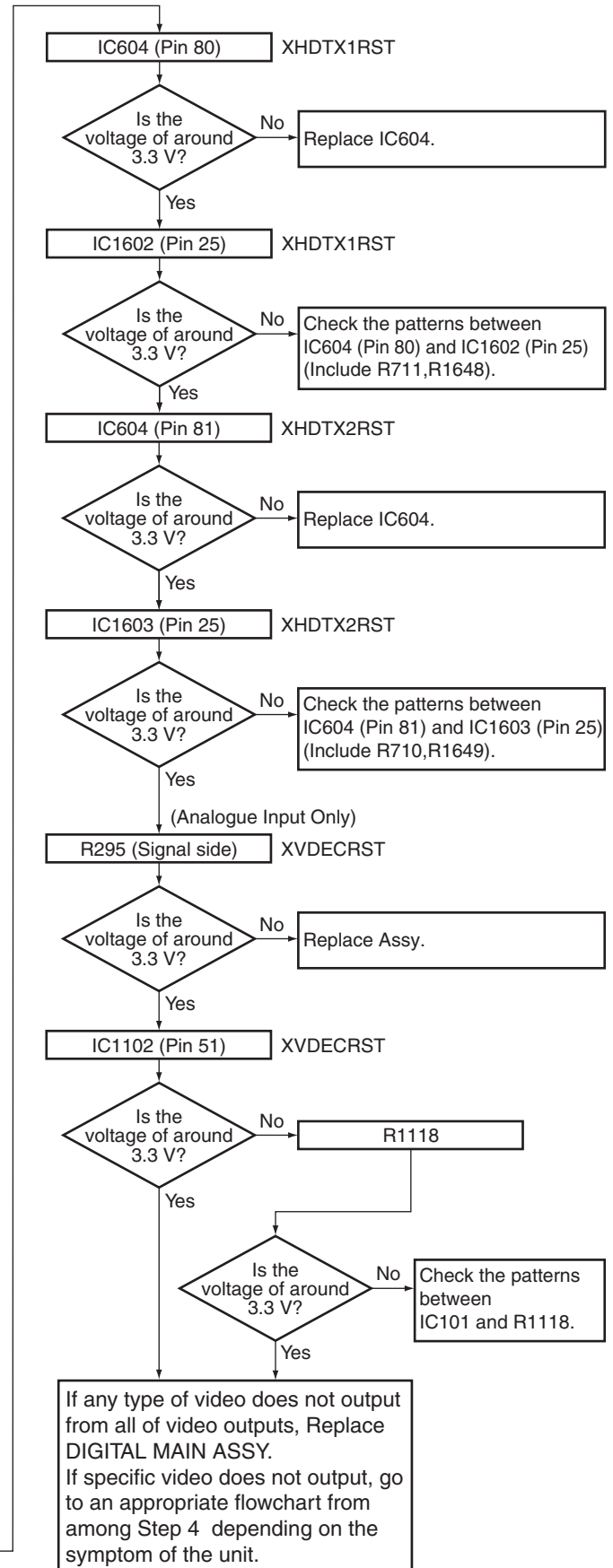
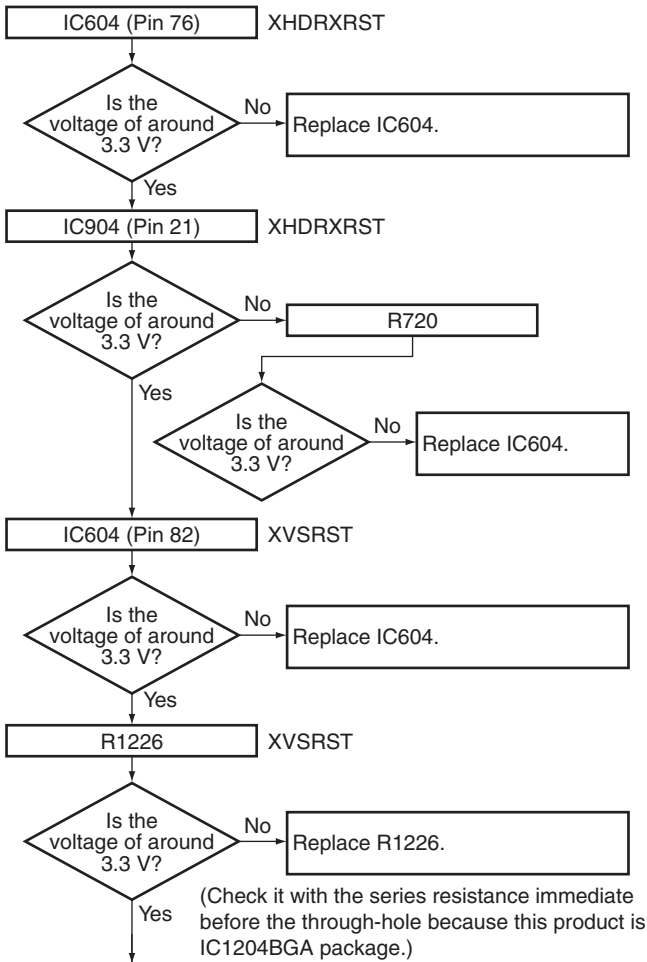
Step 2: Xtal

Step 2-1: VIDEO BLOCK



Step 3: Reset

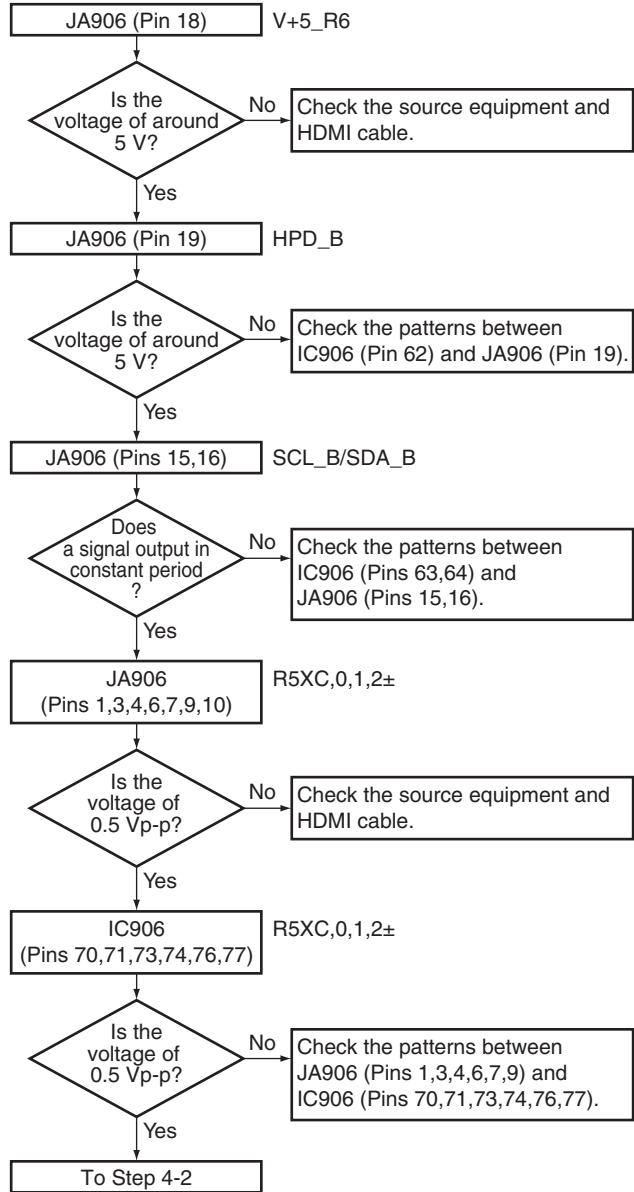
Step 3-1: VIDEO BLOCK



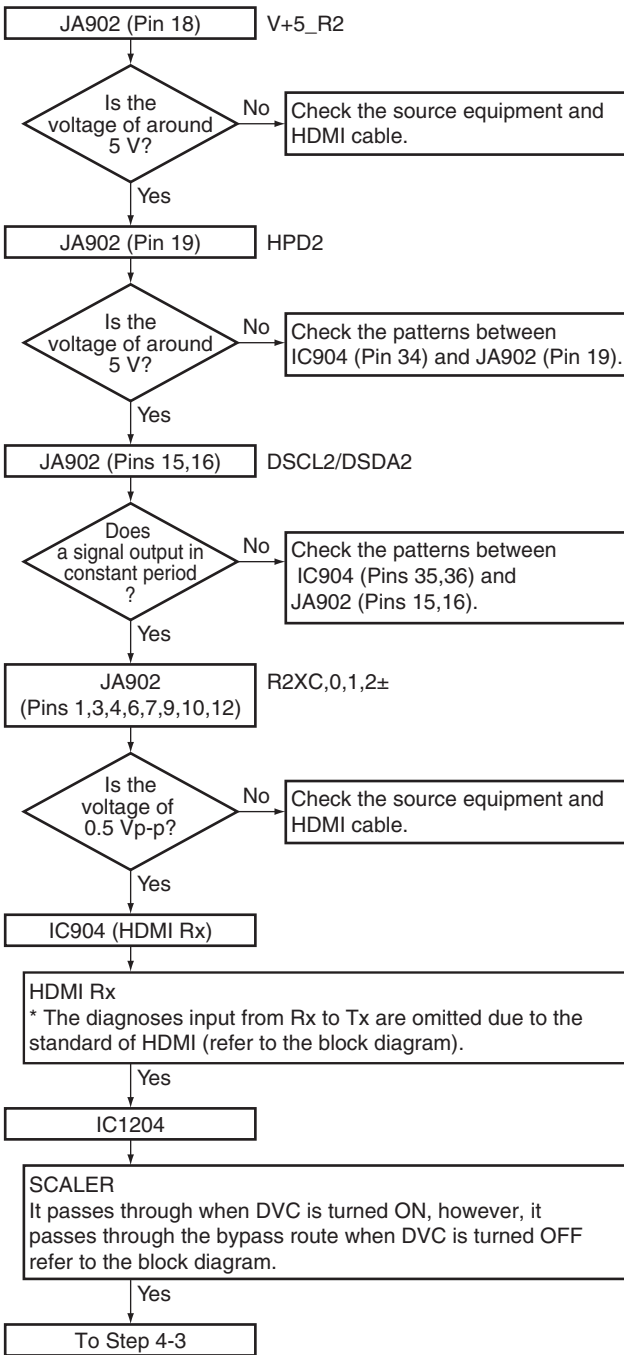
Step 4: VIDEO

* The indicator (LED) of HDMI on the front panel should light up.

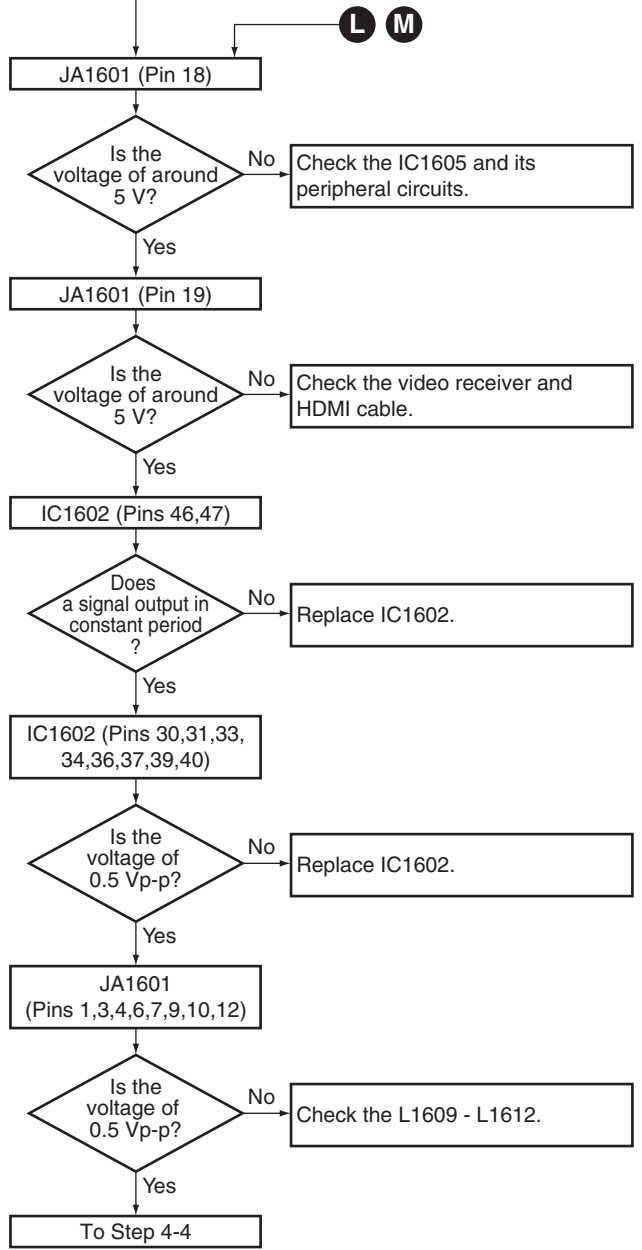
Step 4-1: HDMI IN (IN BD,IN 1,5) * Connection No is IN BD



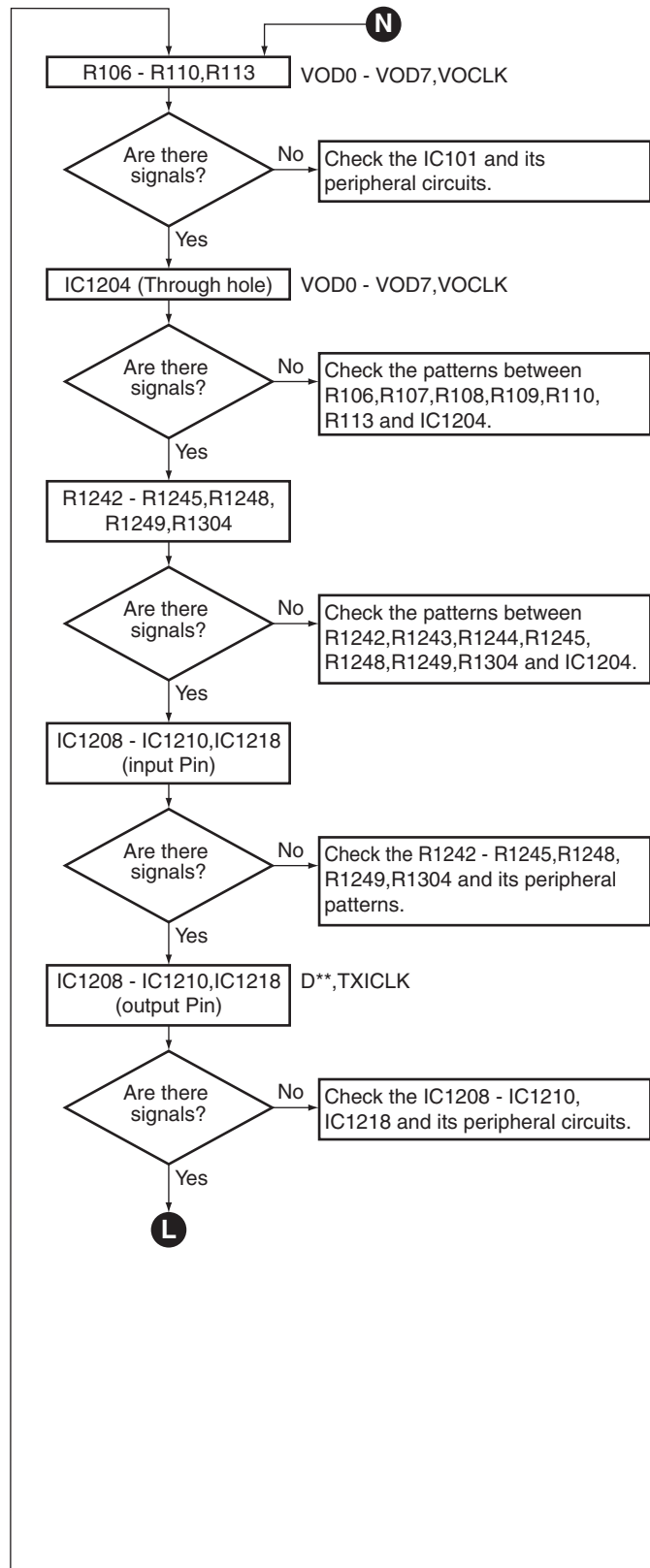
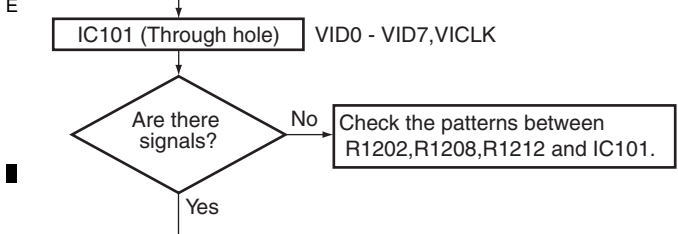
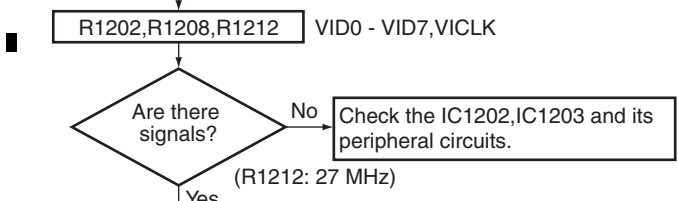
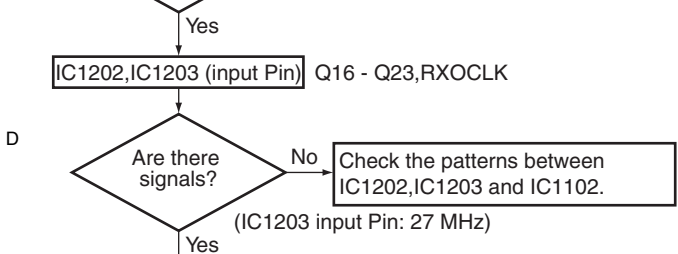
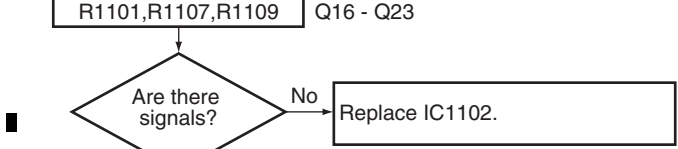
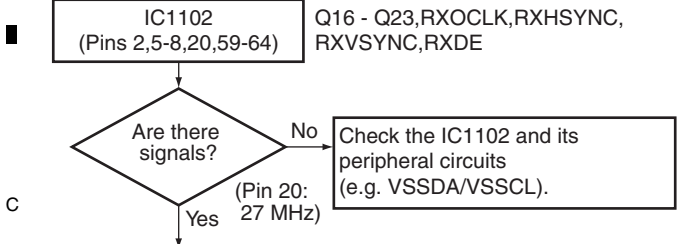
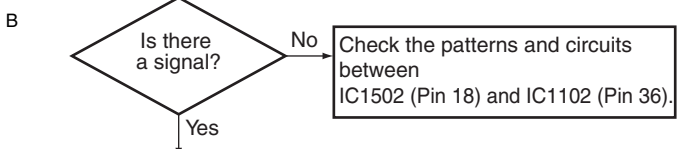
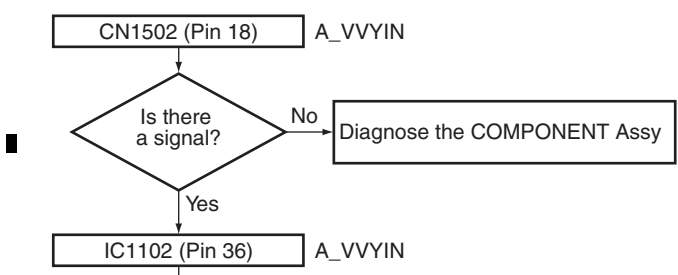
Step 4-2: HDMI IN (IN 2,3,4) * Connection No is IN2



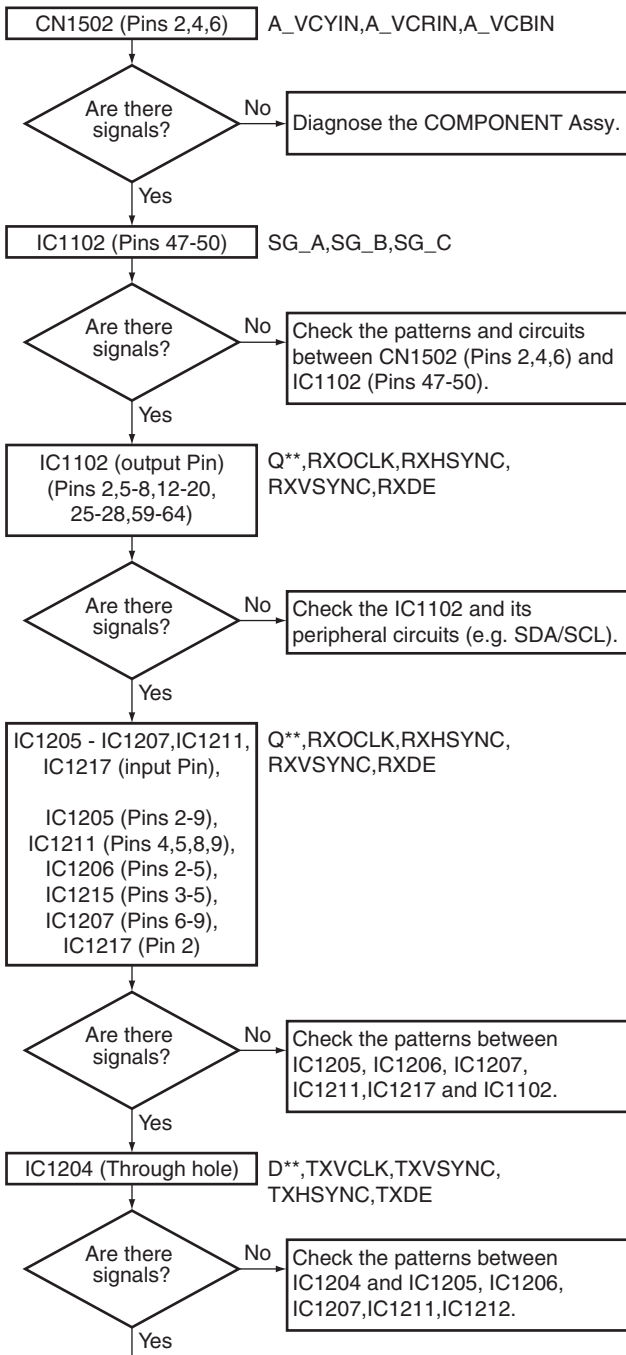
Step 4-3: HDMI OUT * Connection No is HDMI OUT1



Step 4-4: Composite IN-HDMI OUT (DVC:ON)

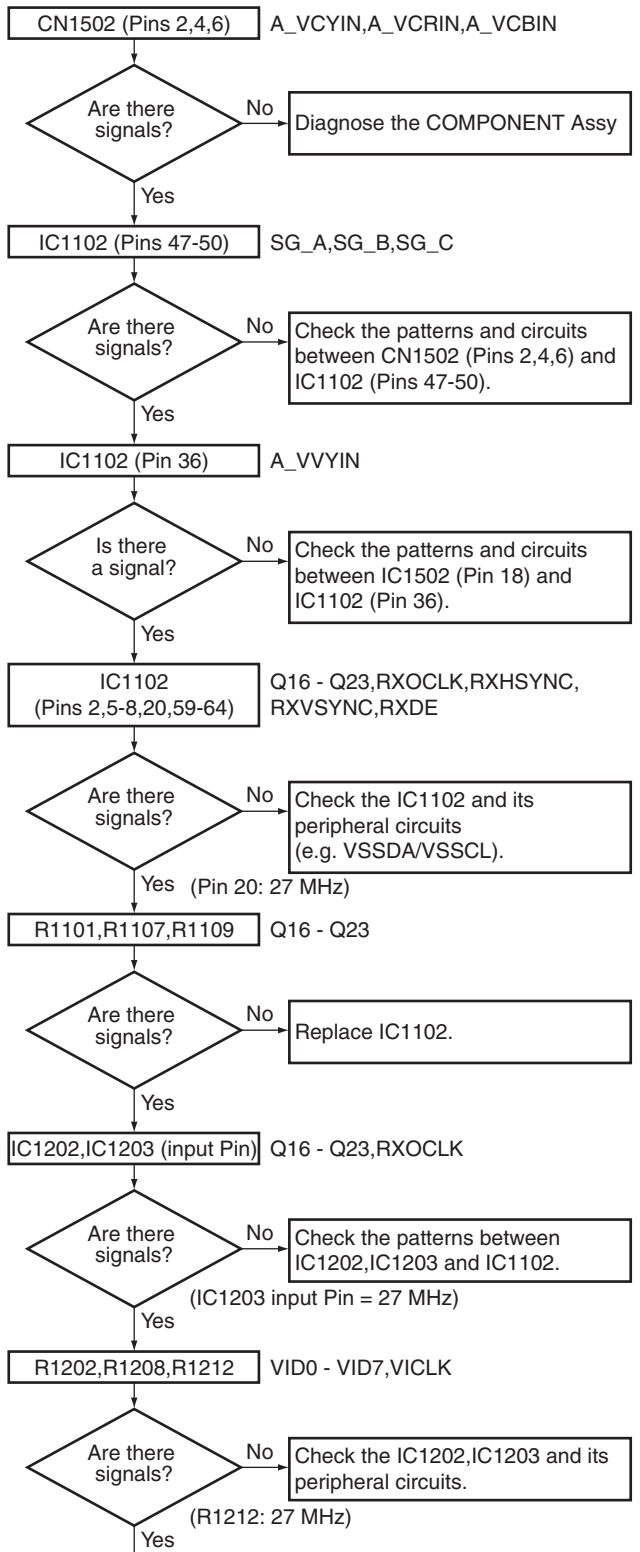


Step 4-5: Component IN (more than 480p) - HDMI OUT (DVC ON)



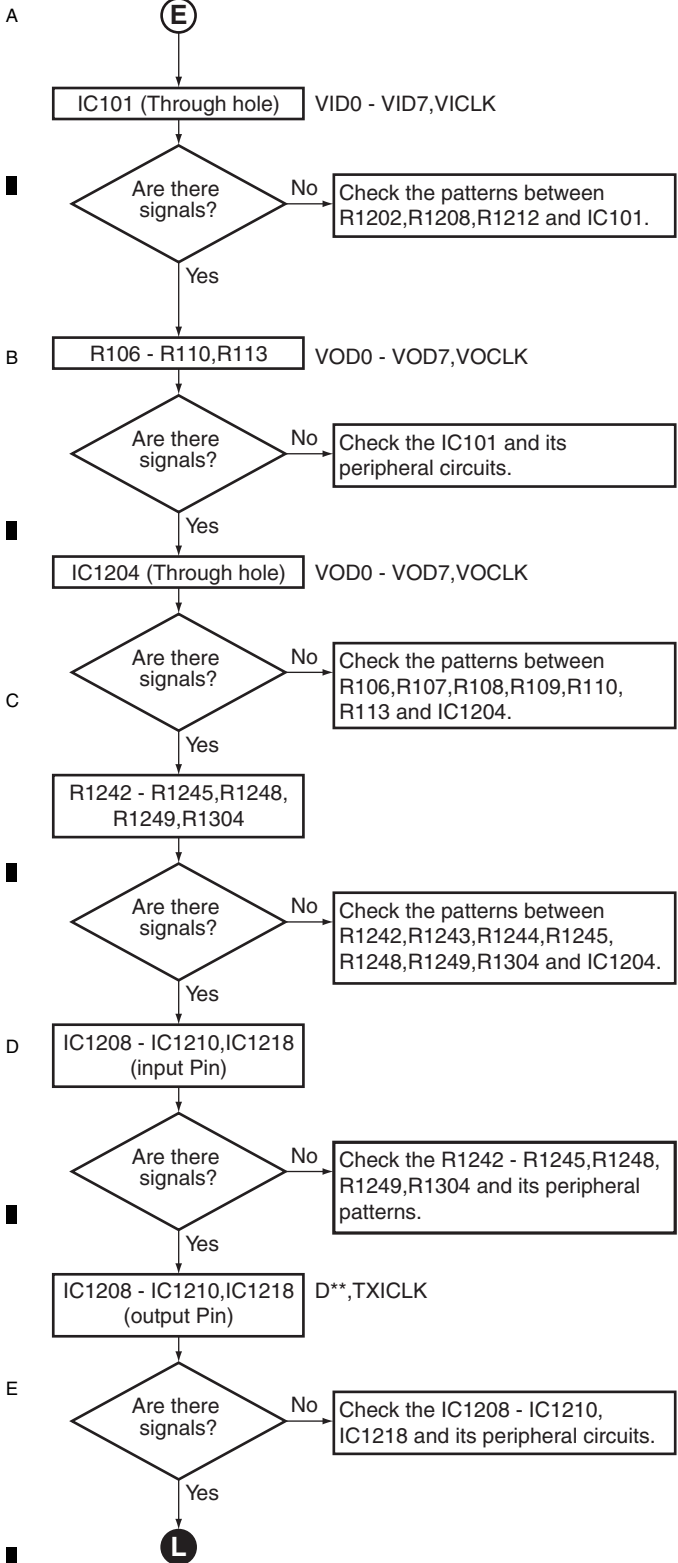
(Q**: 6,7,10,11,16-23,28-35)
(D**: 6,7,10,11,16-23,28-35)

Step 4-6: Component IN (at 480i) - HDMI OUT (DVC ON)

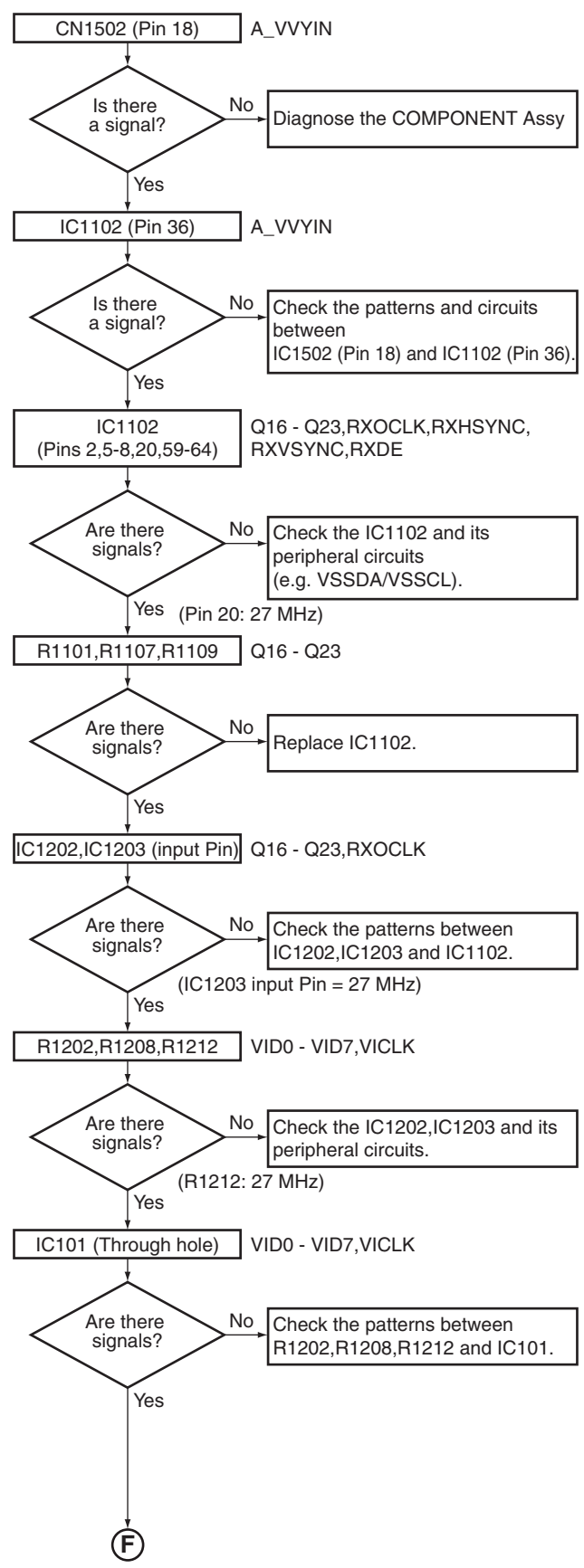


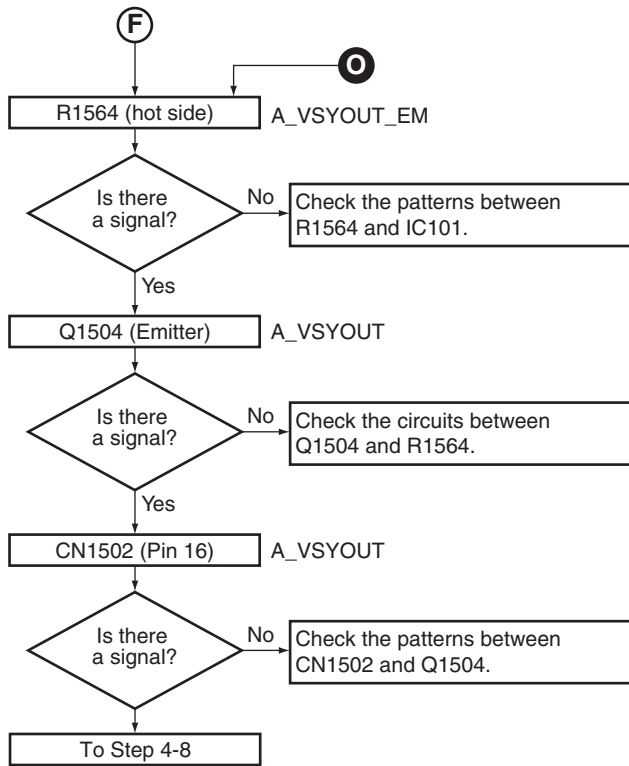
M

E

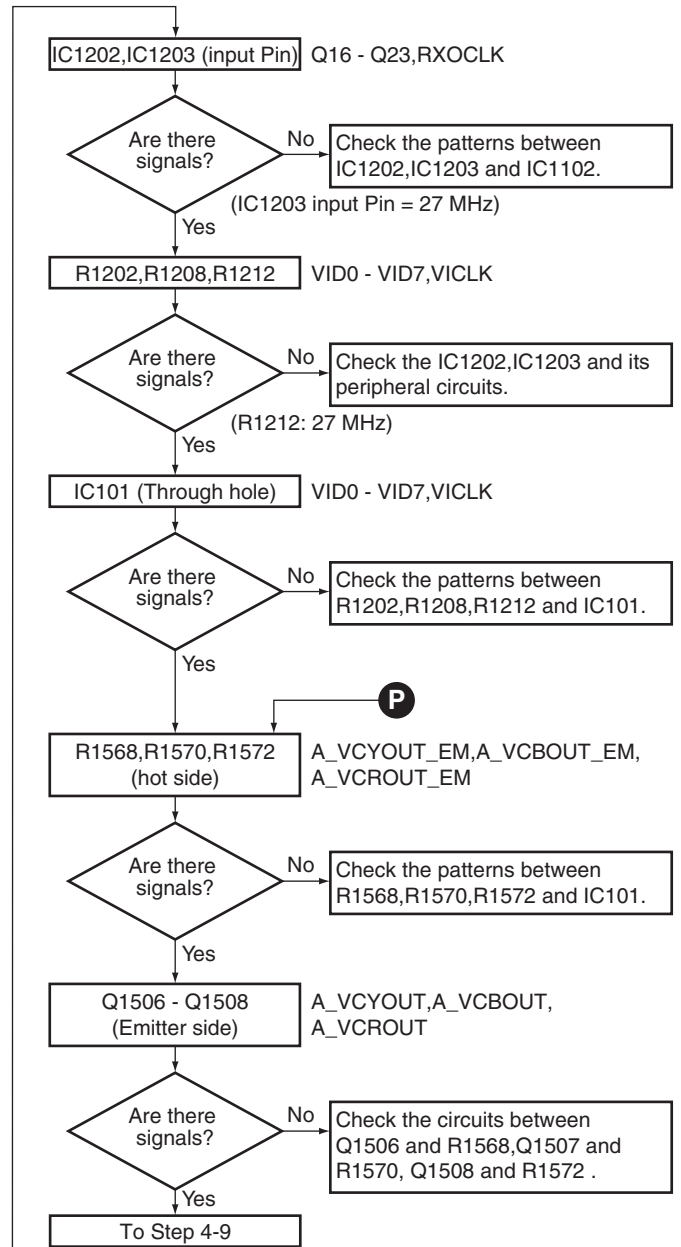
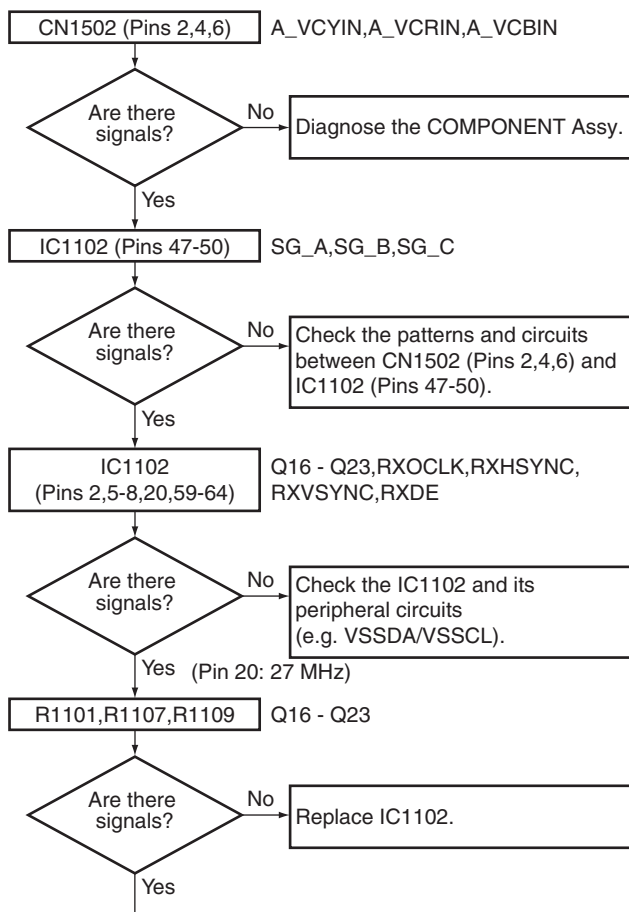


Step 4-7: Composite IN - Composite OUT (DVC ON)





Step 4-8: Component IN (at 480i) - Component OUT (DVC ON)



Step 4-9: USB/iPod

CN1503 (Pins 2,3) D±

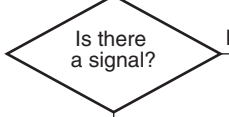


Check the USB cable.

NG

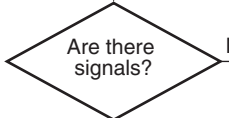
Diagnose the FRONT HDMI USB Assy.

L1501 D±



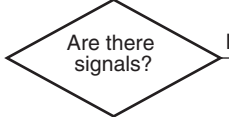
Check the patterns between L1501 and CN1503.

R1531,R1532 D±



Check the patterns between R1531,R1532 and L1501.

IC101 (Through hole) D±



Check the patterns between IC101 and R1531,R1532.

HDMI OUT

Composit OUT

Component OUT

N

O

P

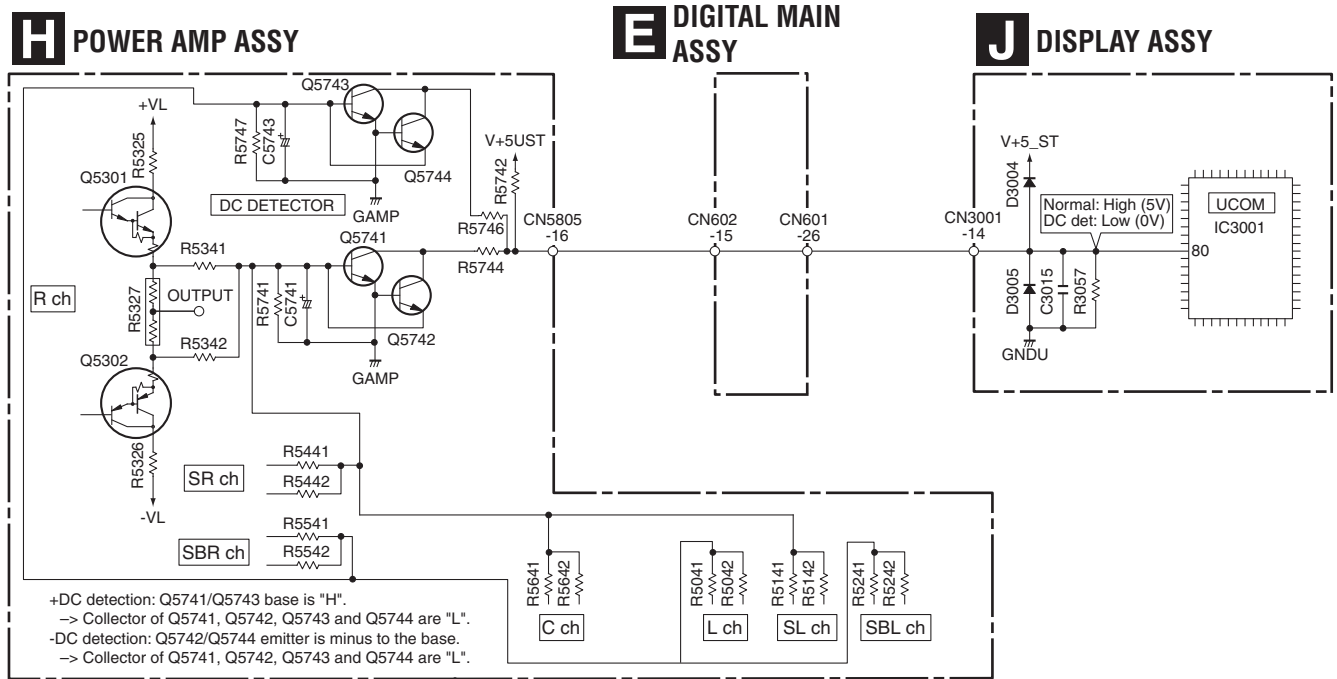
5.2 CIRCUIT DESCRIPTION

[1] Protection Circuit Process List

Item	Purpose	Detection Method	Process	Warning Indication	Remarks
DC detection	To detect amplifier damage (defect status) A process to protect speakers (for protection of connected external devices)	Detects when the XDCERR port becomes "L". (Pin 80 of IC3001)	Turns muting on and speaker relay off, then turns off the power after 3 seconds. Then flashes MCACC indicator.	Flashing "AMP ERR" for 3 seconds.	Once detected and turned the power off, the power cannot be turned on again (*). If the XDCERR port becomes "L" within 3 seconds, the unit returns to normal condition automatically.
AMP overload	To detect overloading (abnormal status) With low-load driving or a short circuit of the speaker terminals (for protection of the amplifier)	Detects when the XOLERR port becomes "L" (checks by interrupt). (Pin 71 of IC3001)	Turns muting on and speaker relay off, and immediately turns off the power. Then flashes iPod/iPhone indicator.	None	

(*) To restore the previous status, follow the procedure described in "How to Enter Release Mode" (P.54) then turn the unit back on.

DC Detection Circuit



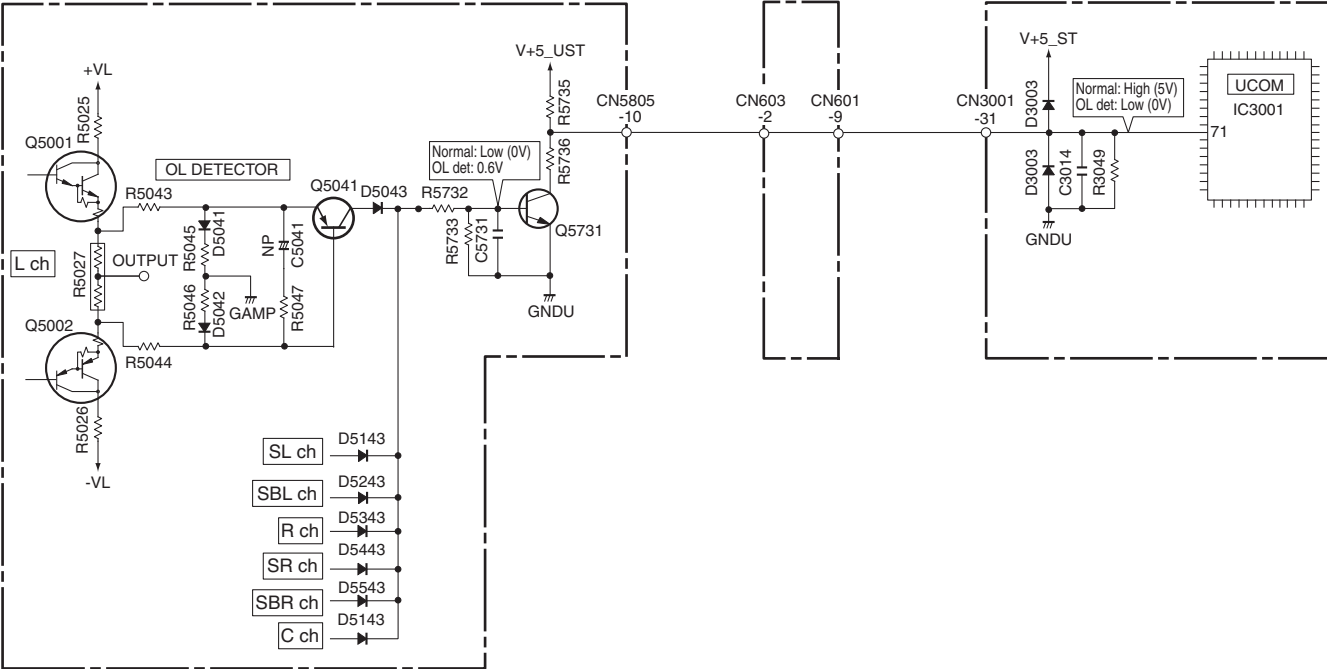
OL (Over Load) Detection Circuit

A

H POWER AMP ASSY

E DIGITAL MAIN ASSY

J DISPLAY ASSY



B

C

D

E

F

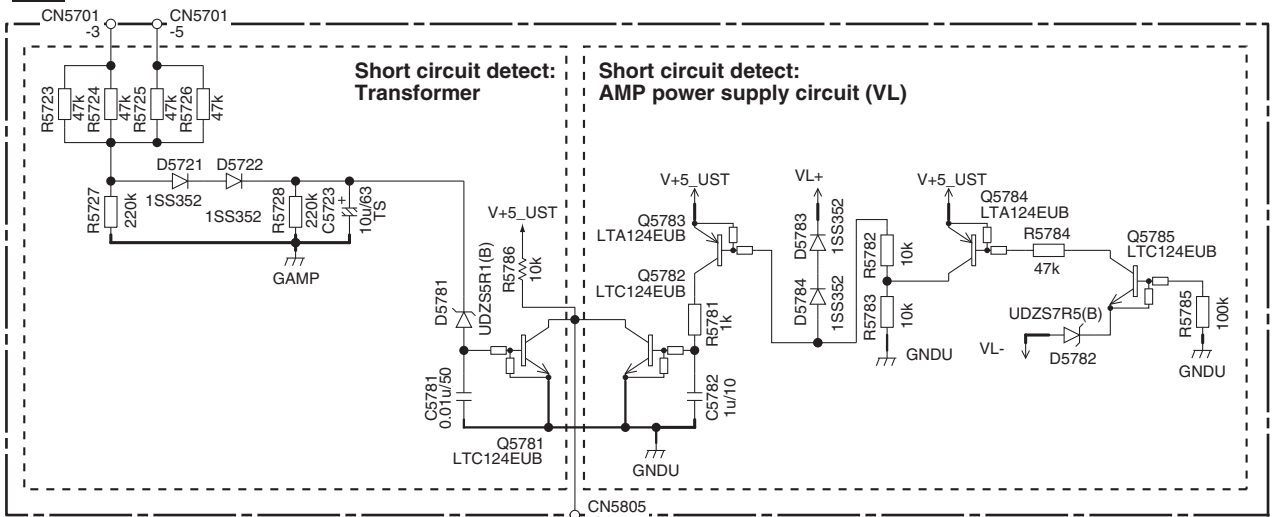
[2] Protection Circuit Process List (XPROTECT)

Item	Purpose	Detection Method	Process	Warning Indication	Remarks
XPROTECT	AMP power supply circuit and Transformer short circuit detect. (defect status) Observe CN5701 pin3 or pin5 voltage, VL+ and VL-.	Detects when the XPROTECT port becomes "L". (Pin 83 of IC3001)	Turns muting on and speaker relay off, and immediately turns off the power. Then flashes MCACC indicator.	None	Once detected and turned the power off, the power cannot be turned on again. (*)

(*) To restore the previous status, follow the procedure described in "How to Enter Release Mode" (P.54) then turn the unit back on.

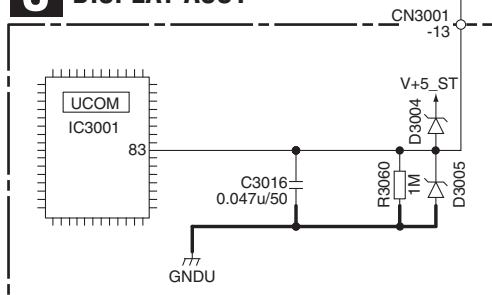
XPROTECT Circuit

H POWER AMP ASSY



E DIGITAL MAIN ASSY

J DISPLAY ASSY



[3] Protection Circuit Process List (XVDDERR)

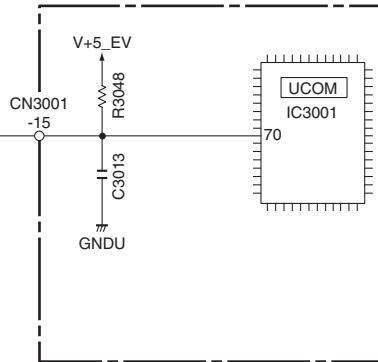
A

Item	Purpose	Detection Method	Status of Equipment	Warning Indication	Remarks
USB power failure detection	Detection of failure in regulator circuit for external supply	Detected when USB voltage reaches 7V or higher, or 4.1V or lower and XVDDERR port is set to "L"	Shuts down	Blinks PQLS	Restoration possible with Power ON

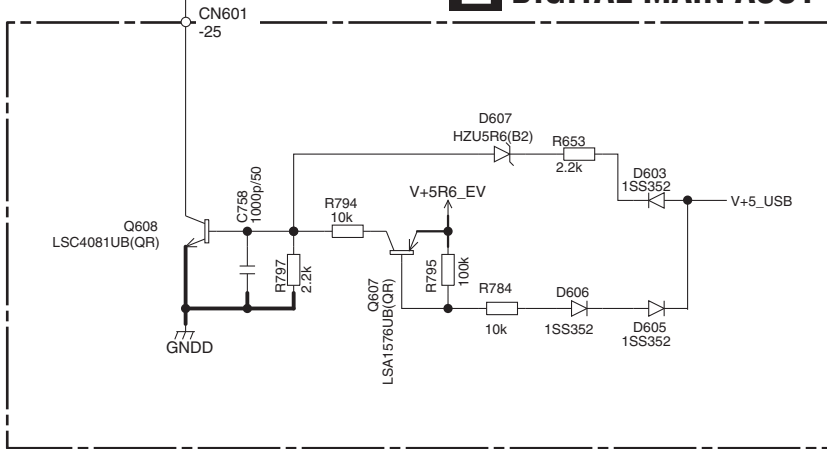
B

XVDDERR Circuit

J DISPLAY ASSY



E DIGITAL MAIN ASSY



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[4] Error Indications When an Abnormality in The Amplifier System Is Detected

[Purpose]

Errors upon detection of abnormalities in the amp system are indicated.

[Error Indications]

	FL Display	LED flashes	Status	Timing (sec.)	Description	Remarks
(1)	AMP ERR	ADVANCED MCACC LED	When the AMP DC is detected.	FL flashes 3 times. LED flashes after the power off.	When the unit recovers the normal state within 3 seconds, FL stops flashing and all zone off, and then the unit restarts automatically. When the DC detect continues for more than 3 seconds, after a failure in the amplifier block or high DC output is detected, the shutdown process starts, then the power will be shut off. Then the ADVANCED MCACC LED will flash. The power cannot be turned on again. If you wish to turn on the unit after a shutdown activated by DC detection, enter DC detection cancellation mode, by proceeding with the steps described in "How to enter release mode" next page.	
(2)	NA	iPod iPhone LED	"AMP overload" detection.	LED flashes after the power off.	Upon detection of overcurrent at the amp output stage, the unit power off immediately, and the iPod iPhone LED starts flashing. The previous stage will be restored when the unit is turned back on.	
(3)	NA	ADVANCED MCACC LED	When an abnormality is detected in the output voltage of the power supply circuit.	LED flashes after the power off.	If abnormality voltage is detected in the power supply VL circuit, the unit power off immediately, and the ADVANCED MCACC LED starts flashing. The power cannot be turned on again. If you wish to turn on the unit after the shutdown activated by XPROTECT, enter DC detection cancellation mode by proceeding with the steps described in "How to enter release mode" next page.	Abnormality detection in the power supply VL circuit.
(4)	NA	PQLS LED	When an abnormality is detected in the output voltage of the Digital power supply circuit.	LED flashes after the power off.	If abnormality voltage is detected in the Digital power supply circuit, the unit power off immediately, and the PQLS LED starts flashing. To restore the previous status, turn the unit back on.	
(5)	AMP OVERHEAT	STANDBY/ON	When an abnormality of temperature is detected at the Amp output stage.	FL flashes 3 seconds. LED flashes after the power off.	When the unit recovers the normal state within 3 seconds, FL stops flashing. When the overheat state continues for more than 3 seconds, the power is shut off and STANDBY/ON LED starts flashing. To restore the previous status 1 minute or more after a shutdown, just turn the unit back on.	Overheat detection over 120 °C
(6)	Over Current	NA	When the overload USB device (over 500 mA) is connected.		The connected USB device is overload.	
(7)	HDCP ERROR	NA	When an HDCP ERROR is detected.	Flashes 5 seconds		Warning indication for HDMI Simplay

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	FL Display	LED flashes	Status	Timing (sec.)	Description	Remarks
(8)	12V TRG ERR	NA	When the 12V trigger circuit is short-circuited.	Flashes	The 12V trigger circuit is short-circuited, and a overcurrent is generated.	
(9)	NA	NA	When the ANALOG INPUT OVER is detected.	Icon lights 1 second	While the icon lights 1 second, when the ANALOG INPUT OVER is detected again, the icon continues to light 1 second more from that time. While the icon lights 1 second, when there is no ANALOG INPUT OVER detection, the icon stops lighting and returns to normal display.	The icon "OVER" lights
(10)	NO ADAPTER	NA	When BT Adapter is not connected.	Lights	While the ADAPTER PORT function is selected, the BT Adapter is not connected.	
(11)	NOT AVAILABLE	NA	Non-BT Adapter is connected.	Lights	While the ADAPTER PORT function is selected, the non-BT Adapter is connected.	
(12)	WAITING DEVICE	NA	No wireless connection between BT source and AVR	Lights	While the ADAPTER PORT function is selected, there is no wireless connection between BT source equipment and AVR.	
(12)	ADP OVERLOAD	NA	When overcurrent is detected in the Adapter port.	Lights	While the ADAPTER PORT function is selected, overcurrent is detected in the Adapter port, and Bluetooth function is not available.	

[How to Enter Release Mode]

During Standby mode, simultaneously press and hold the "TUNE [↓]" and "MULTI-ZONE ON/OFF" keys for 5 seconds.

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6. SERVICE MODE

6.1 TEST MODE

[1] Detected protection history

[Purpose]

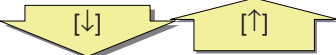

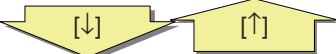
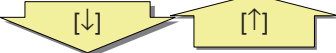

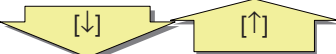
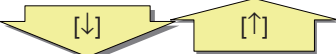
The numbers of detections for various protection processes are displayed.

[How to enter/exit]

Turn off the power to this unit by setting the main volume level to “--dB” and Multi-zone to “OFF”.

During Standby mode, simultaneously press and hold “MULTI-ZONE ON/OFF” and “ENTER” keys for 5 seconds to enter this mode.

[Basic operations]

Key operation	FL display
Display number of times DC is detected. 	DC : ***
Display number of times OVERLOAD is detected. 	OL : ***
Display number of times COMBINATION is detected. (Detects DC and OVERLOAD simultaneously) 	COM : ***
Display number of times Power abnormality is detected. 	XPRT : ***
Display number of times FAN STOP is detected. This function does not work on this model. 	FAN : ***
Display number of times AMP overheat is detected. 	STMP : ***
Display number of times Digital Power abnormality is detected. 	DERR : ***

Front Panel Key

[↓] : TUNE Key

[↑] : TUNE Key

[←] : PRESET Key

[→] : PRESET Key

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	Key operation	FL display
A	Resetting the number of times error is detected. [↓] [↑]	RESET ◀HOLD▶
B	Display accumulated time & RESET. [↓] [↑]	1 2 3 4 5 h 2 0 m ◀ HLD ▶
C	Display CEC(TEST) state. [↓] [↑]	CEC ◀OFF▶
D	Display FAN(TEST) state. This function does not work on this model. [↓] [↑]	FAN ◀OFF▶
E	USB Backup state [↓] [↑]	USB BAK ◀HOLD▶
F	Change cyclically	

Resetting the number of times error is detected

Key operation	FL display
[←][→]	RESET ◀CLEAR?▶
[ENTER]	RESET ◀RESET▶

Continued

Resetting the accumulated time

Key operation	FL display
[←][→]	1 2 3 4 5 h 2 0 m ◀CL?▶
[ENTER]	0 h 0 m ◀RST▶

Continued

Display CEC(TEST) state.

Key operation	FL display
[←][→]	CEC ◀ON▶

Change cyclically

Saving and Loading of USB backup state.

Key operation	FL display
[←][→]	(A/V Receiver → USB) USB BAK ◀SAVE?▶
[←][→]	(USB → A/V Receiver) USB BAK ◀LOAD?▶

Change cyclically

Key operation	FL display
[ENTER]	PLEASE WAIT
SAVE or LOAD is completed.	COMPLETE
↓ 5 sec Power OFF (All zone OFF)	

[Description]

CEC TEST : The function for making the HDMI output terminal to output 1 kHz square wave. If the square wave is output, the CEC line is considered to be normal.

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7. DISASSEMBLY

7.1 DISASSEMBLY

Preparations Before Performing Diagnosis of the POWER AMP ASSY

Before performing diagnosis of the POWER AMP ASSY, it is necessary to discharge C5721 and C5722 on the board. (See the photo below.)

If you don't, the protectors (P5001 and P5002) on the board may be open, and DC voltage may be generated at the power amplifier output, which will result in "AMP ERR."

[Procedures]

- (1) Unplug the power cord.
- (2) Discharge C5721 and C5722 by connecting either J496 or J552 to pin 1 and 4 of D5790.

Note: For discharging, use a load of $100\ \Omega$, 3 W or more, to protect the IC protectors. Do NOT discharge instantly by short-circuiting.

- (3) Check that the voltage between the electrodes of each C5721 and C5722 is 1 V or less.

A photograph of the POWER AMP ASSY board. A dashed white box highlights the area containing capacitors C5721 and C5722, and connector D5790. Other components labeled include J496 and J552. The board is populated with various electronic components, including resistors, capacitors, and integrated circuits. A caution label is visible on the board.

A close-up photograph showing the discharge procedure. Two 100Ω 3W resistors are connected between the terminals of connector D5790 and the terminals of connector J496. The terminals are labeled as pin 1 (+) and pin 4 (-). The capacitors C5721 and C5722 are visible in the background. A red arrow labeled "Front" points towards the components.

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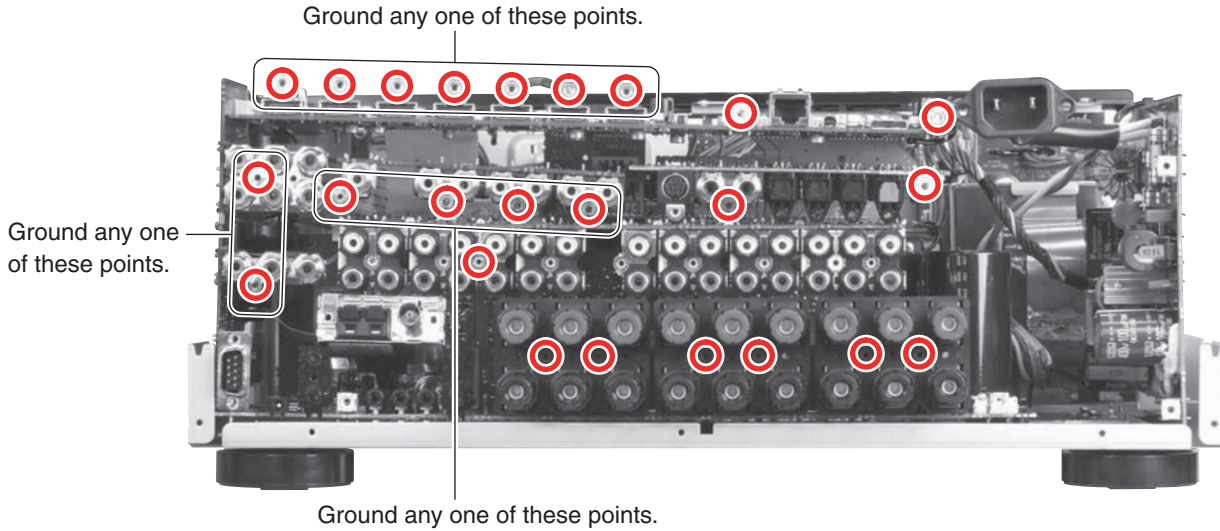
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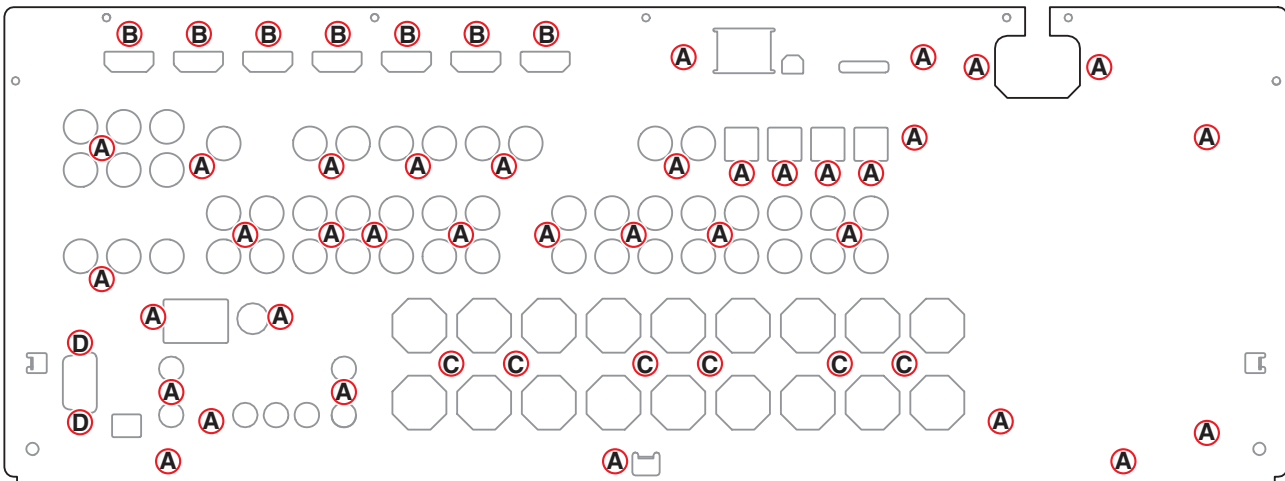
57

Ground Points

Note:
 The points marked below must be grounded when the rear panel is removed.
 Before turning the unit ON, be sure to ground the marked points with the chassis. Or, you may short-circuit the ground points on the solder surface, using pieces of wire.



Screws for Rear Panel



Diagnosis

Note 1 : Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Note 2 : For performing the diagnosis shown below, the following jigs for service is required.

- 30P board to board extension jig cable (GGD1682) x 2
- 24P + 14P board to board extension jig cable (GGD1683)
- 20P + 20P board to board extension jig cable (GGD1677)
- 19P FFC (GGD1678)

[1] Front Section

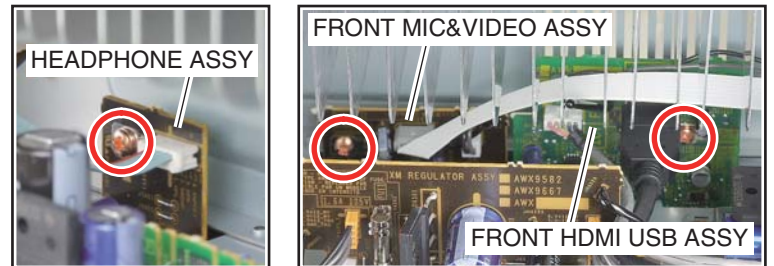
Remove the Bonnet by removing the 18 screws.

[1-1] Exterior

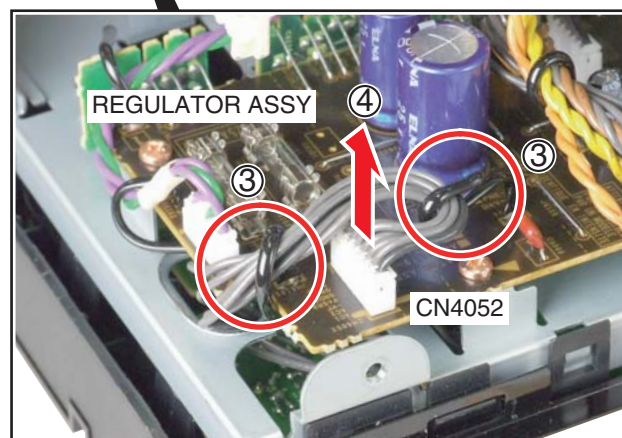
- (1) Remove the five screws.
(VSX-LX53: ABA1193)
(VSX-2020-K: BBZ30P080FCC)



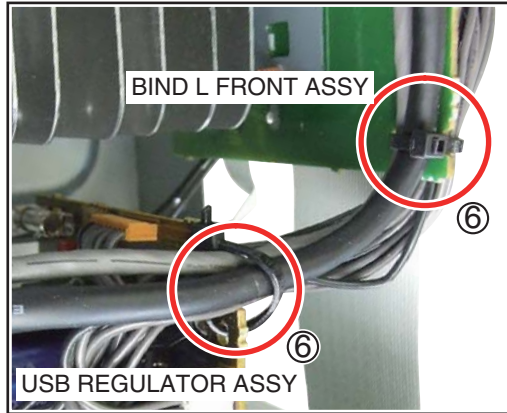
- (2) Remove the eight screws. (BBZ30P080FCC)



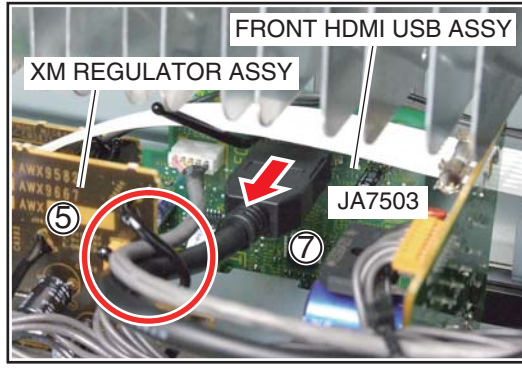
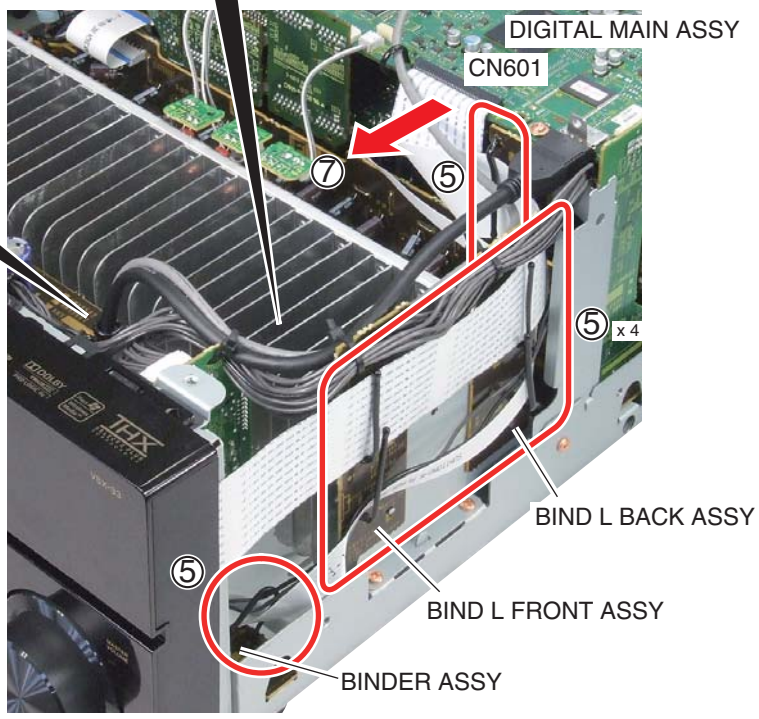
- (3) Release the jumper wire from two binders.
(4) Disconnect the one connector.



- A (5) Release the cables, as required.
- (6) Cut the two binders.
- (7) Disconnect the tow connectors.



B



C

D

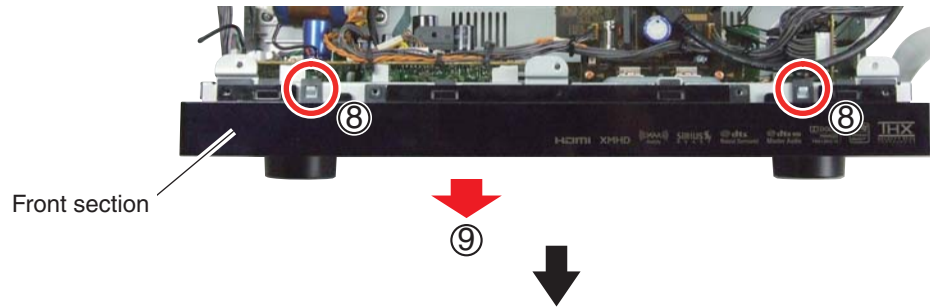


- (8) Unhook the four hooks.
- (9) Remove the Front section.

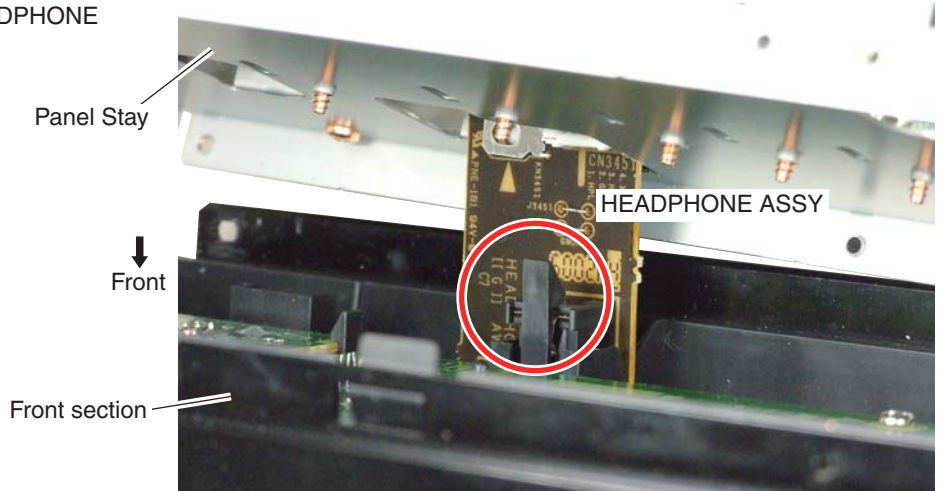
E



F

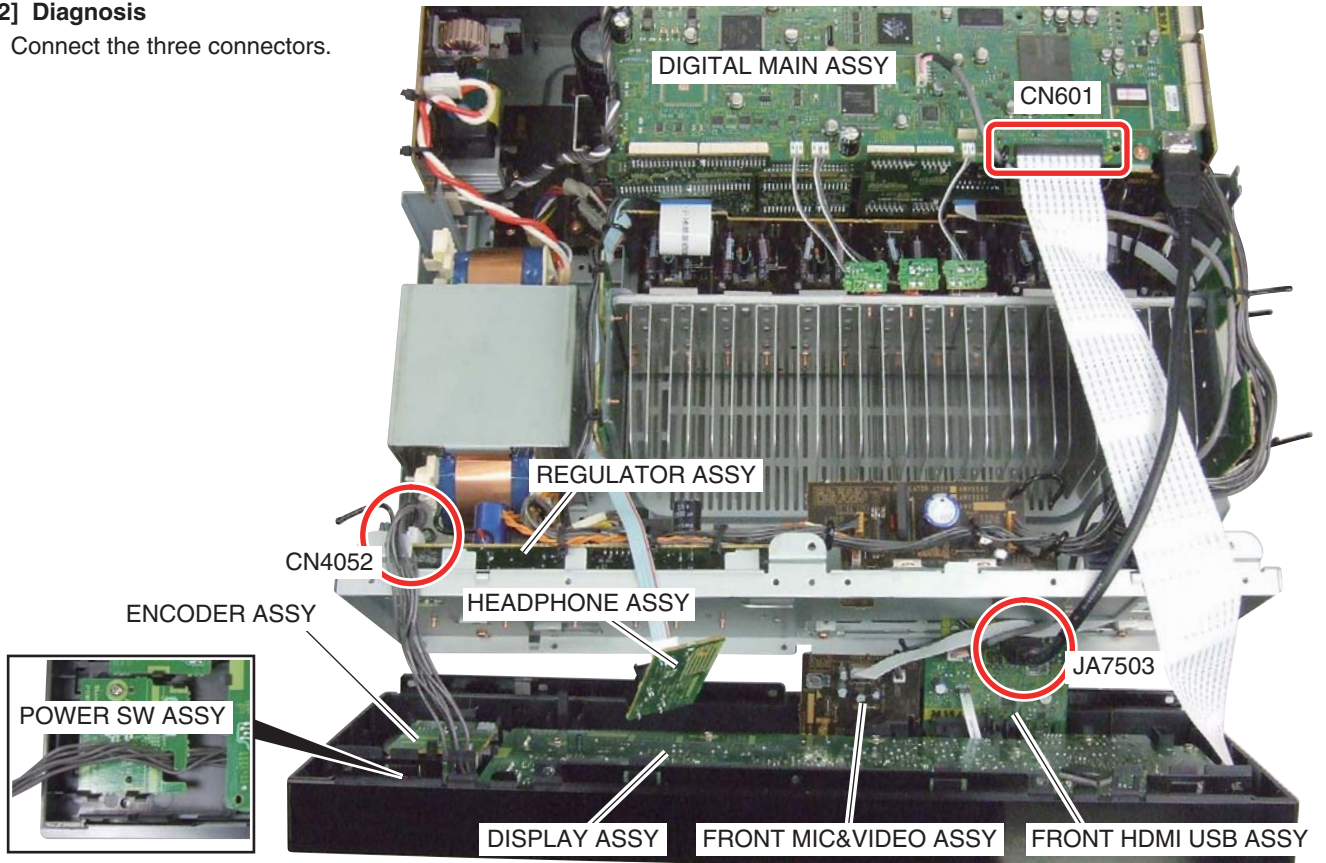


(10) Unhook the one hook of the HEADPHONE ASSY.



[1-2] Diagnosis

(1) Connect the three connectors.

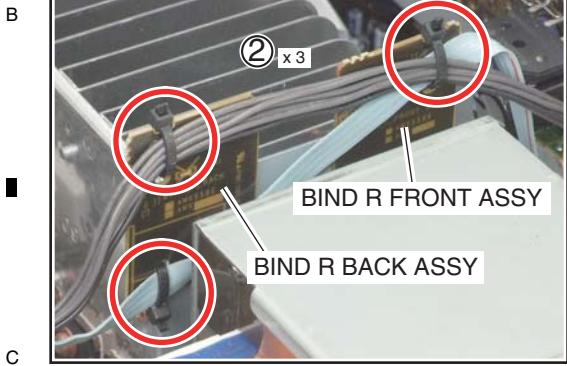
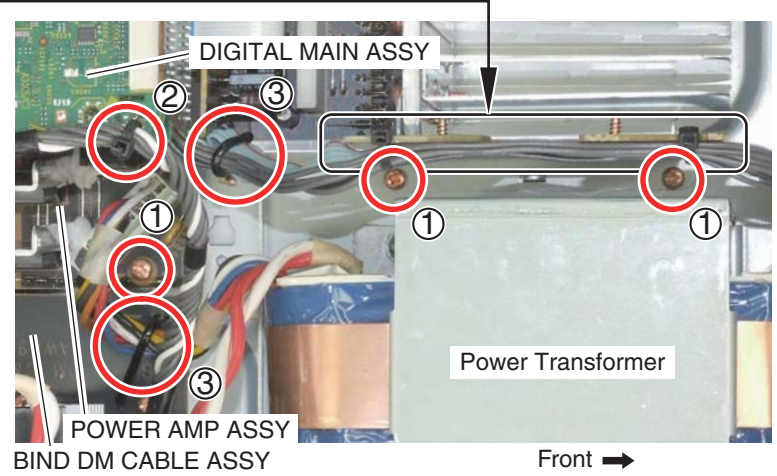


A [2] POWER AMP ASSY

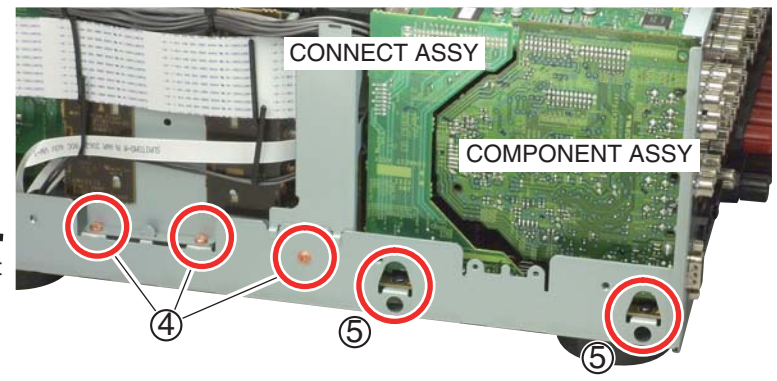
- (1) Remove the Bonnet by removing the 18 screws.
- (2) Discharge C5721 and C5722.
(Refer to the "discharge procedures.")

[2-1] Exterior

- (1) Remove the three screws. (BBZ30P080FCC)
- (2) Cut the four binders.
- (3) Release the jumper wires, as required.

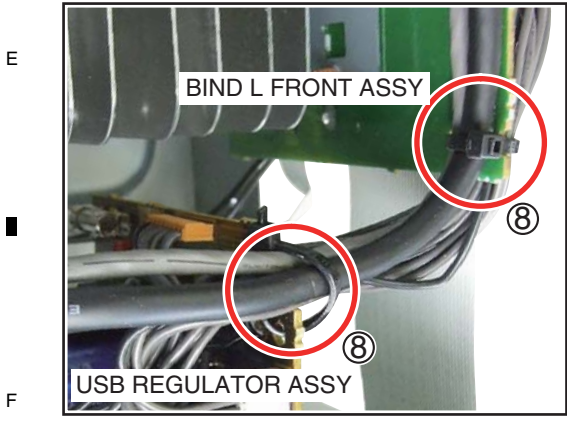
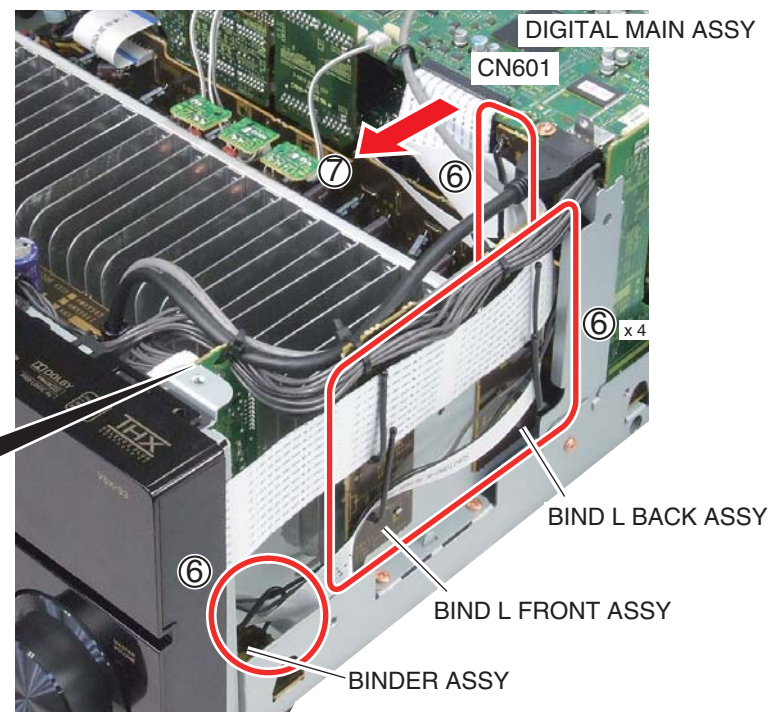


Note: Styling for the wires differs between the photograph above and the actual product. Please check the wires styling of the actual product before working on this procedure.

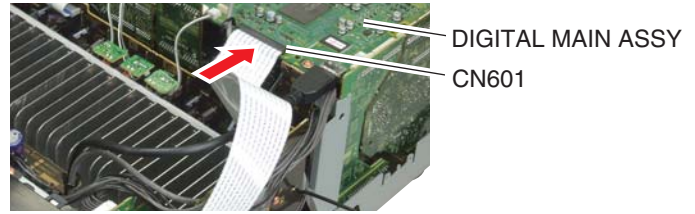


- (4) Remove the three screws. (BBZ30P080FCC)
- (5) Remove the two Nylon Rivet.

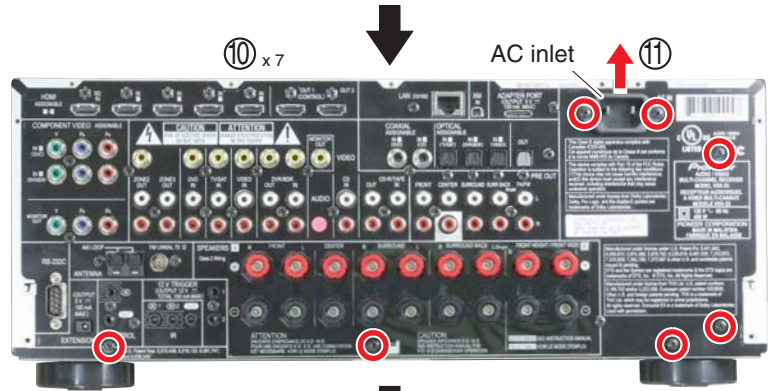
- (6) Release the cables, as required.
- (7) Disconnect the FFC (ADD7733) from the DIGITAL MAIN ASSY.
- (8) Cut the two binders.



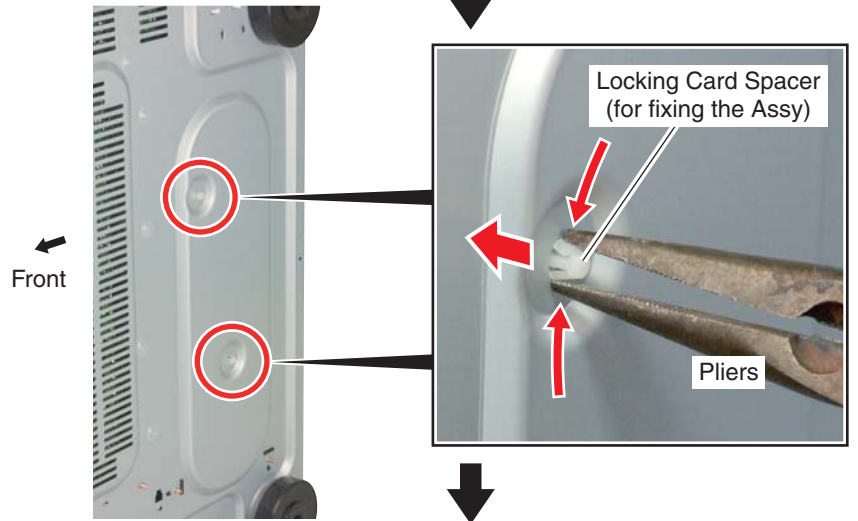
- (9) Connect the FFC (ADD7733) over cables to the DIGITAL MAIN ASSY.



- (10) Remove the seven screws from the Rear Panel. (BBZ30P080FTB)
- (11) Remove the AC inlet.

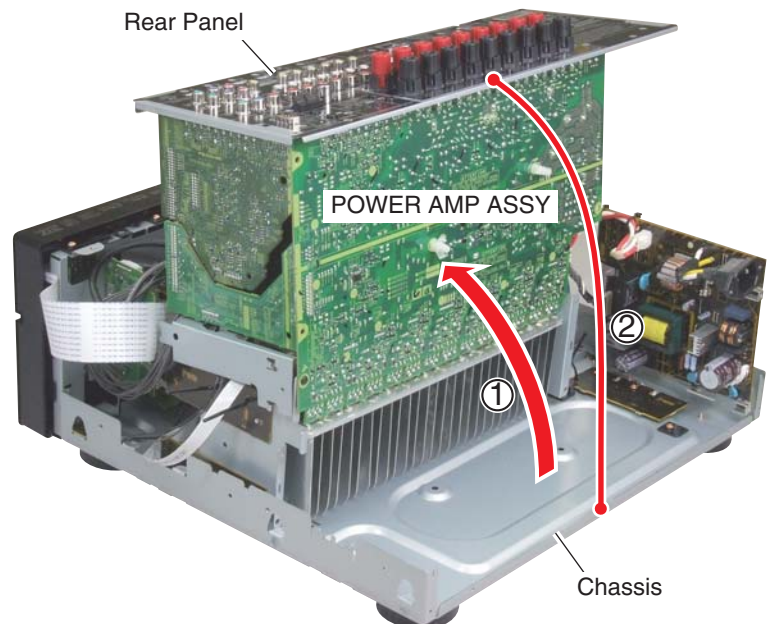


- (12) Remove the two Locking Card Spacers from the Chassis using Pliers.



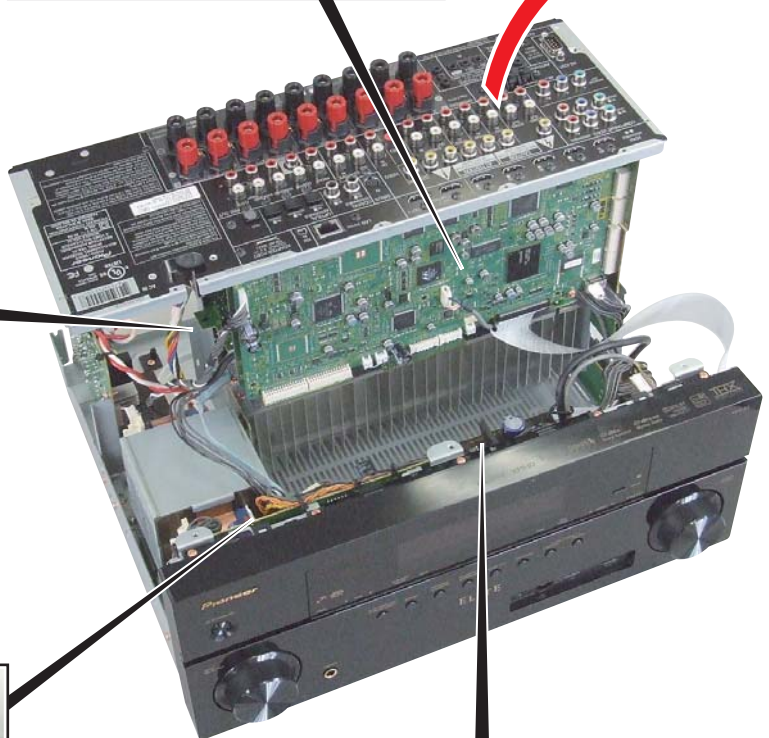
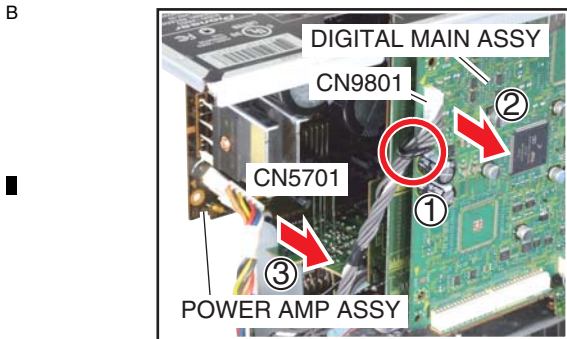
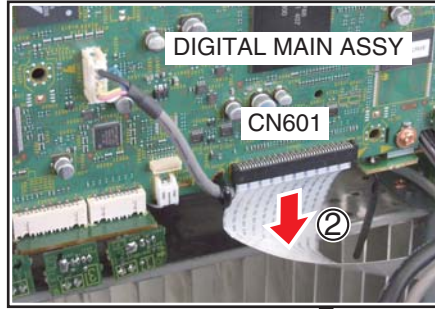
[2-2] Diagnosis

- (1) Arrange the unit as shown in the photo below.
- (2) Connect the Rear Panel to the Chassis Ground.

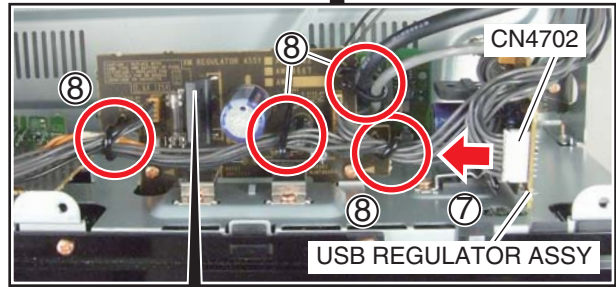
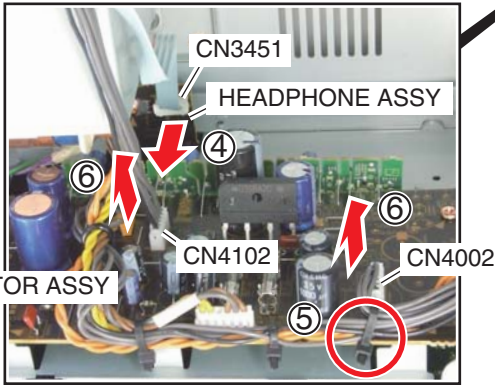


A [2-3] Remove the POWER AMP ASSY

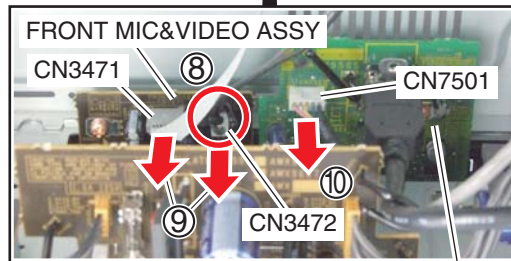
- (1) Release the cable, as required.
- (2) Disconnect the two connectors from the DIGITAL MAIN ASSY.
- (3) Disconnect the one connector from the POWER AMP ASSY.



- (4) Remove the one cable of the HEADPHONE ASSY.
- (5) Cut the binder.
- (6) Disconnect the two connectors from the REGULATOR ASSY.



- (7) Disconnect the one connector from the USB REGULATOR ASSY.
- (8) Release the cables, as required.
- (9) Disconnect the two connectors from the FRONT MIC&VIDEO ASSY.
- (10) Disconnect the one connector from the FRONT HDMI USB ASSY.
- (11) Remove the POWER AMP Unit.

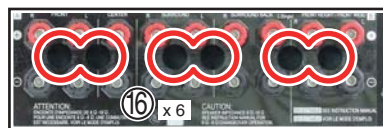
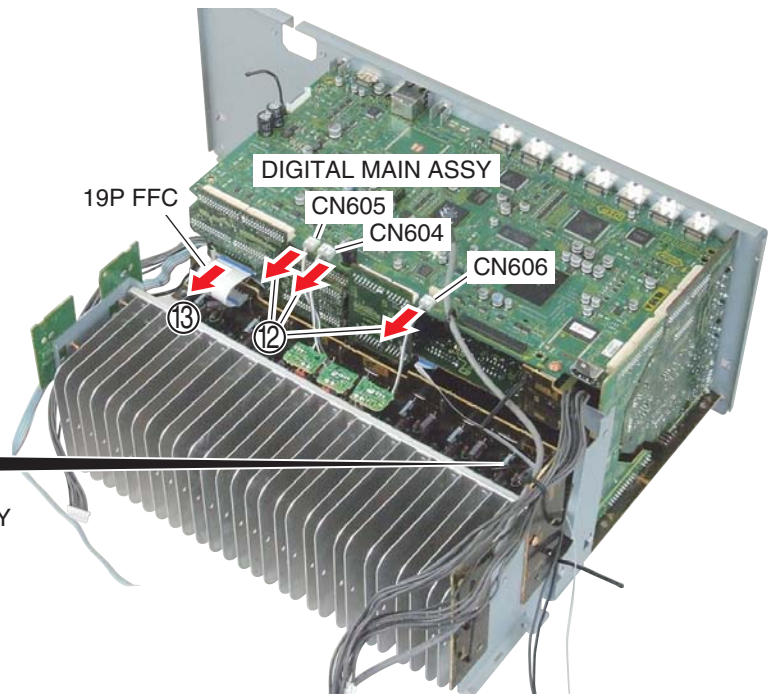
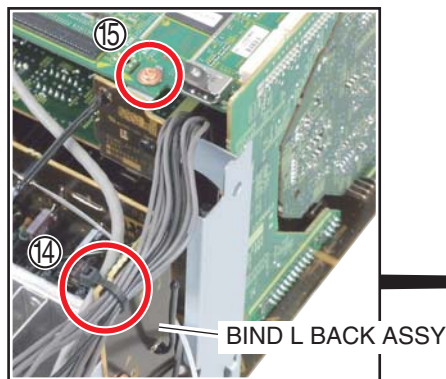


FRONT HDMI USB ASSY

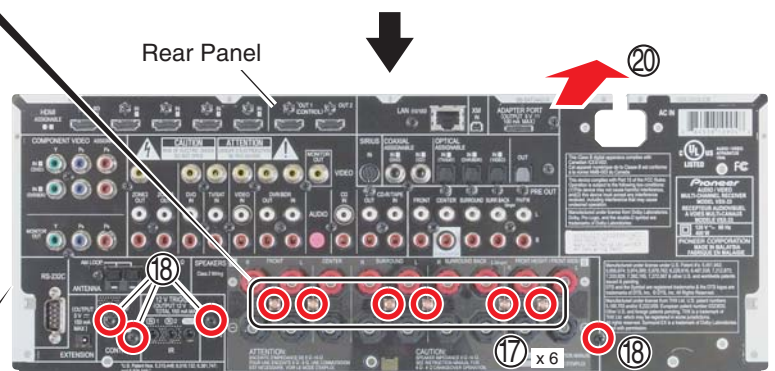
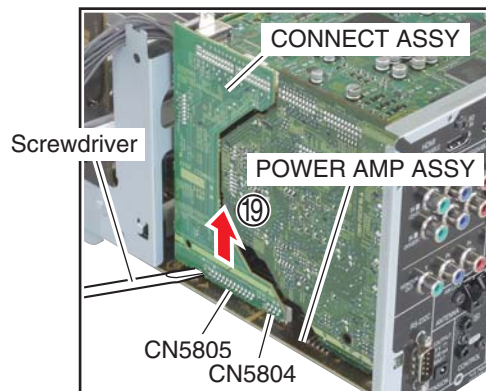


F

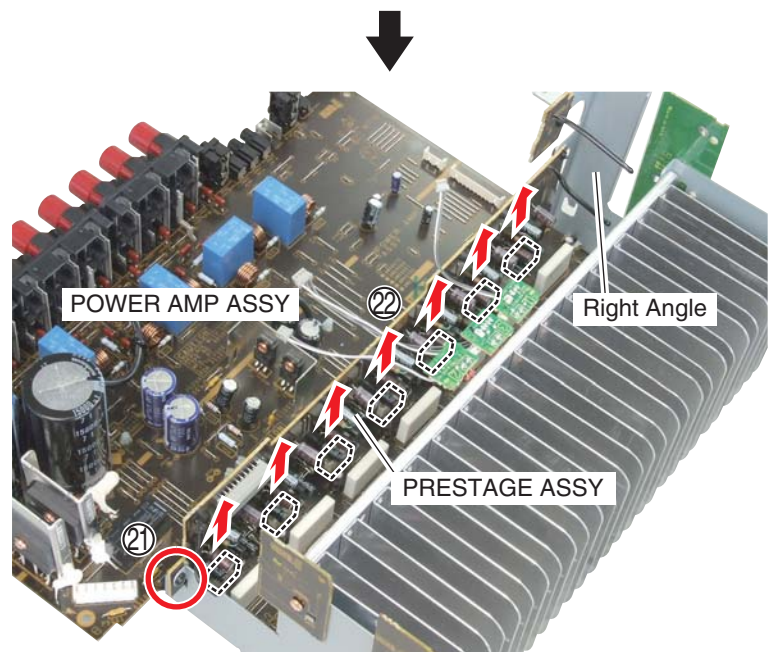
- (12) Disconnect the three connectors from the DIGITAL MAIN ASSY.
- (13) Remove the 19P FFC. (ADD7730)
- (14) Cut the binder.
- (15) Remove the one screw. (BBZ30P080FCC)



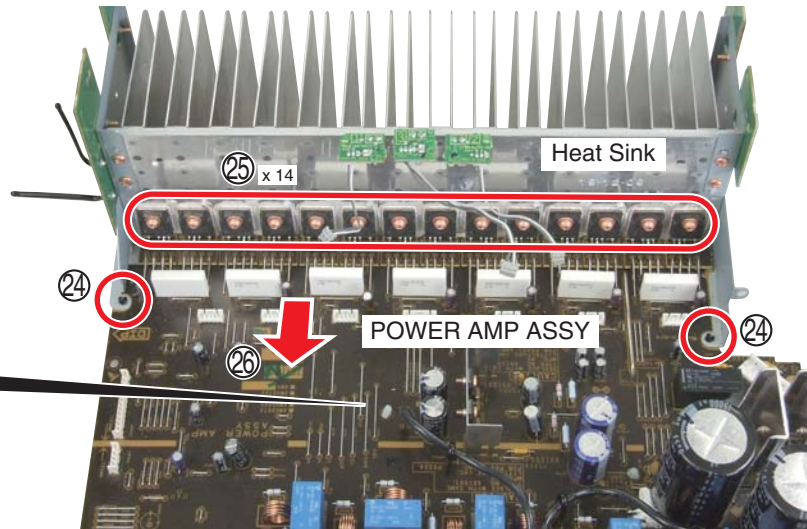
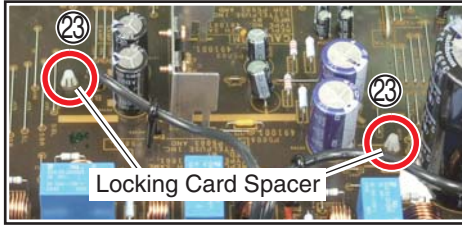
- (16) Remove the six Cushion Circle 14B.
- (17) Remove the six screws. (BBT30P100FCC)
- (18) Remove the four screws. (BBZ30P080FTB)
- (19) Insert a screwdriver under the low end of the CONNECT ASSY, and turn the driver to disconnect the two connectors from the POWER AMP ASSY.
- (20) Remove the Rear Panel (with other assy).



- (21) Remove the Nylon Rivet.
- (22) Disconnect the seven connectors and then remove the PRESTAGE ASSY (with the Right Angle).



- A (23) Remove the two Locking Card Spacers, using Pliers.
- (24) Remove the two Nylon Rivets.
- (25) Remove the 14 screws. (ABA7085)
- (26) Remove the POWER AMP ASSY.



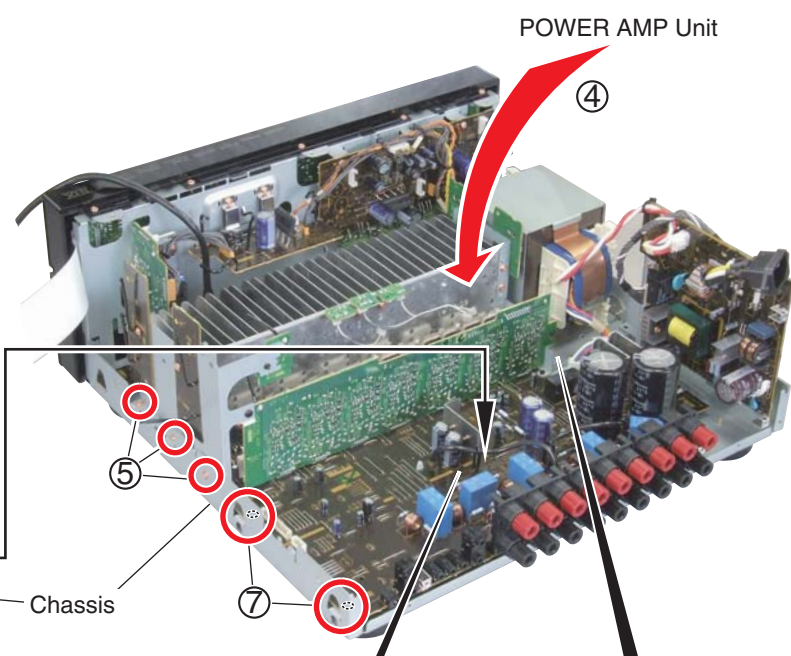
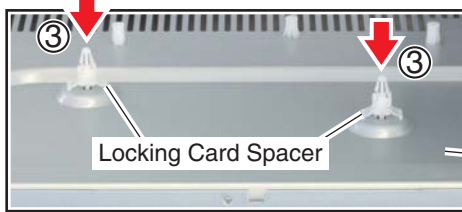
[2-4] Assembling of the POWER AMP ASSY

- (1) Attach the POWER AMP ASSY to the Heat Sink, using the 14 screws (ABA7085) and two Nylon Rivets. (Refer to the steps (23) and (24) of "[2-3] Remove the POWER AMP ASSY")

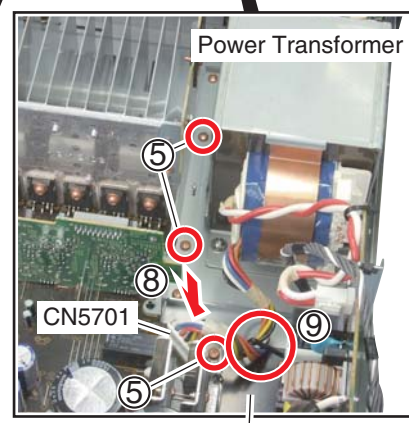
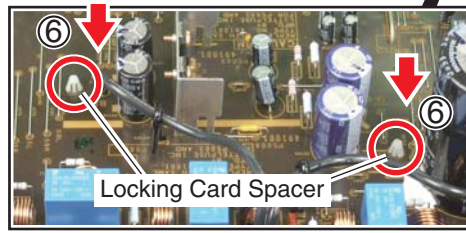
Note: Apply even coatings of silicon grease (GEM1057) on the Heat Sink side of the transistors.

- (2) Attach the PRESTAGE ASSY (with the Right Angle), using the seven connectors and the Nylon Rivet. (Refer to the steps (21) and (22) of "[2-3] Remove the POWER AMP ASSY")

- (3) Attach the two Locking Card Spacers to the Chassis.

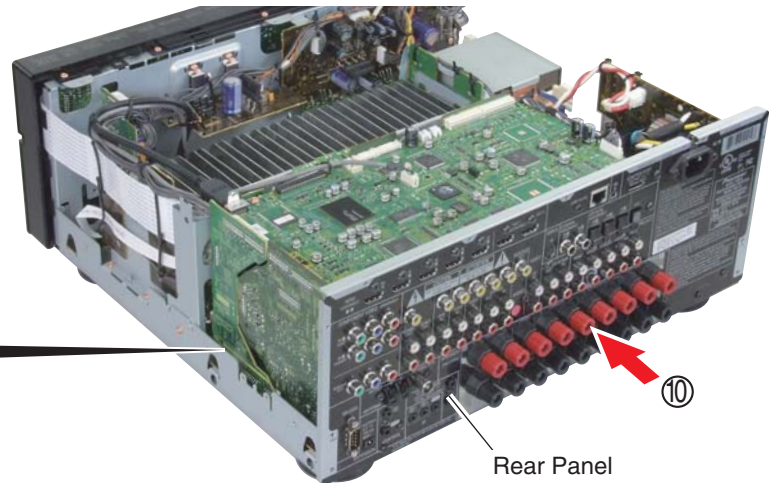
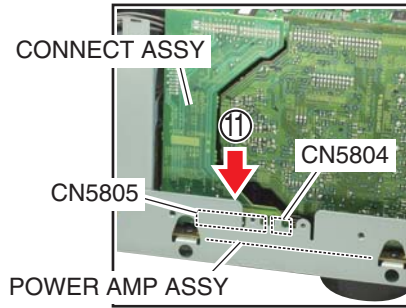


- (4) Allocate the POWER AMP Unit.
- (5) Attach the six screws. (BBZ30P080FCC)
- (6) Fix the POWER AMP ASSY on the head of the two Locking Card Spacers.



- (7) Attach the two Nylon Rivets.
- (8) Connect the one connector.
- (9) Fix the jumper wire to the BIND DM CABLE ASSY.

- (10) Attach the Rear Panel (with other assy).
 (11) Connect the two connectors.



- (12) Attach some screws and connect any cables as required.
 (Refer to "[2-1] Exterior")

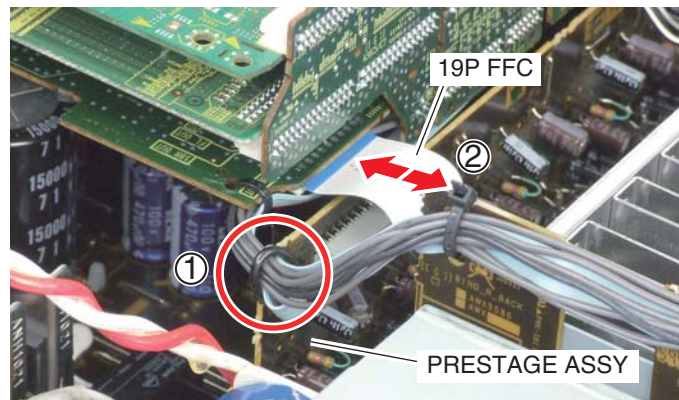
[3] AUDIO ASSY

- (1) Remove the Bonnet by removing the 18 screws.
 (2) Discharge C5721 and C5722.
 (Refer to the "discharge procedures.")

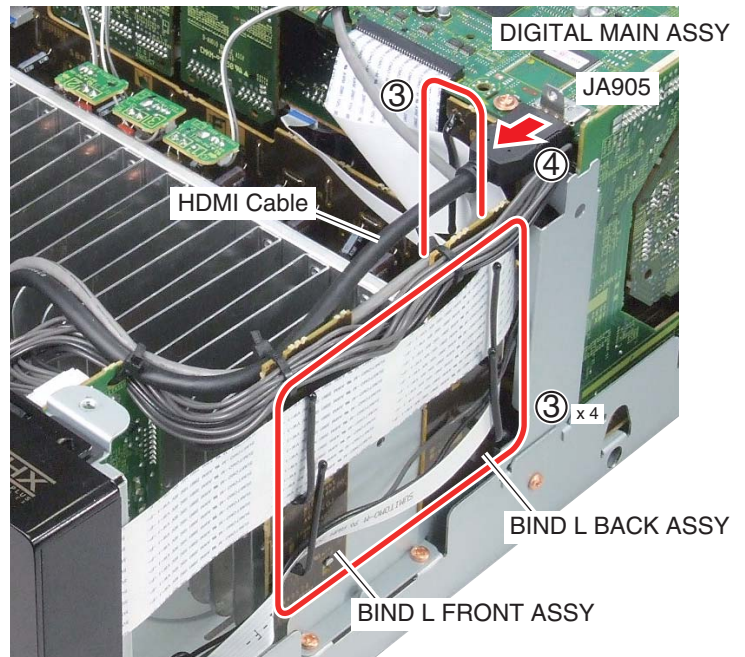
[3-1] Exterior

- (1) Release the jumper wires from the PRESTAGE ASSY.
 (2) 19P FFC (ADD7730) to 19P FFC (GGD1678) to replace.

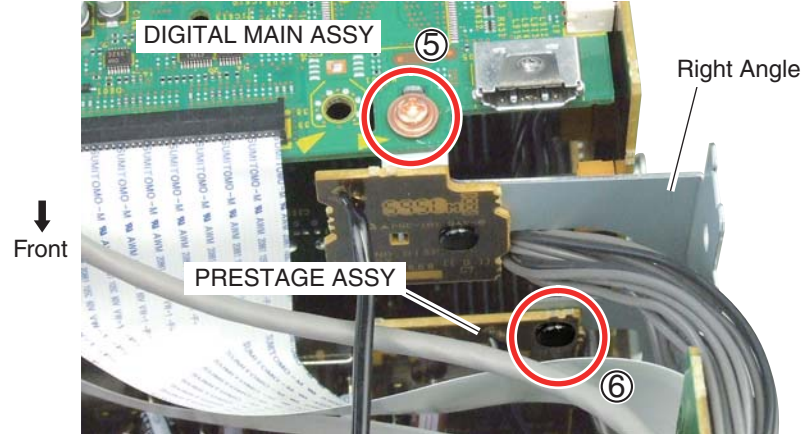
Front



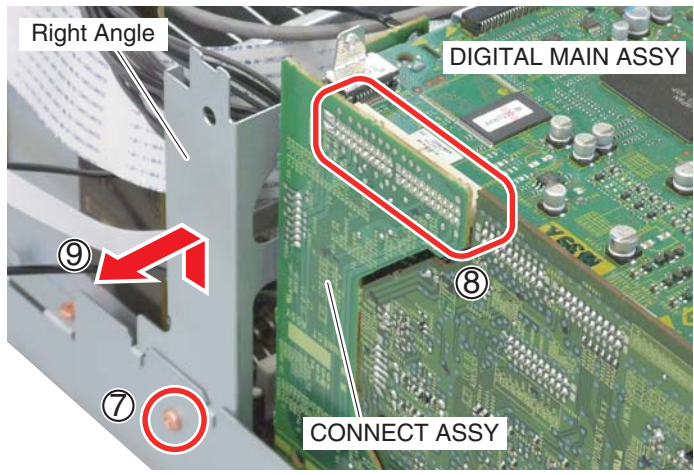
- (3) Release the jumper wires, as required.
 (4) Remove the HDMI Cable of the DIGITAL MAIN ASSY.



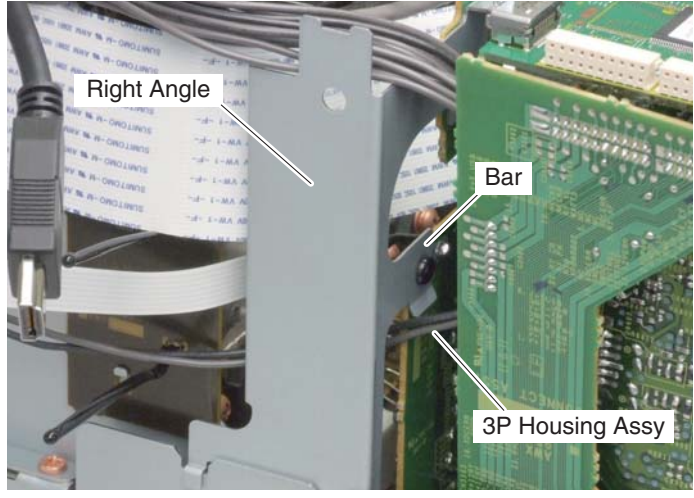
- A (5) Remove the one screw. (BBZ30P080FCC)
- (6) Remove the Nylon Rivet.



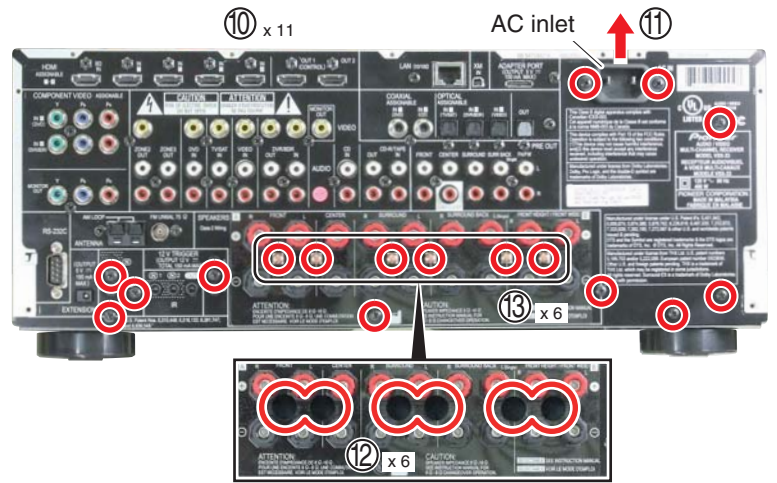
- B (7) Remove the one screws. (BBZ30P080FCC)
- (8) Disconnect the two connectors.
- (9) Remove the Right Angle.



D **Note:** To reassemble, pass the 3P Housing Assy (ADX7739) under the bar of the Right Angle.

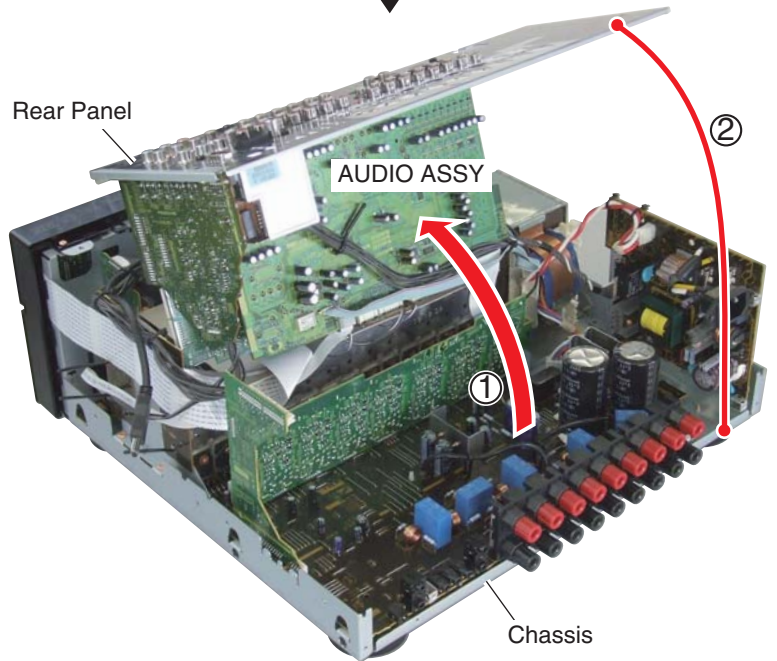


- (10) Remove the 11 screws from the Rear Panel. (BBZ30P080FTB)
- (11) Remove the AC inlet.
- (12) Remove the six Cushion Circle 14B.
- (13) Remove the six screws. (BBT30P100FCC)

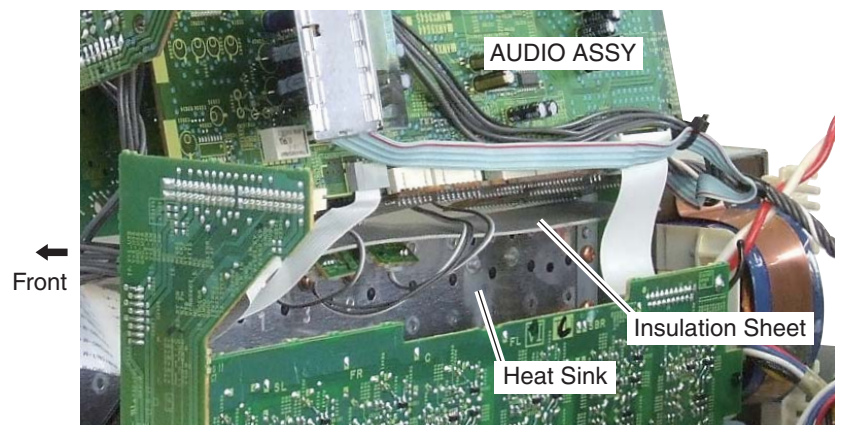


[3-2] Diagnosis

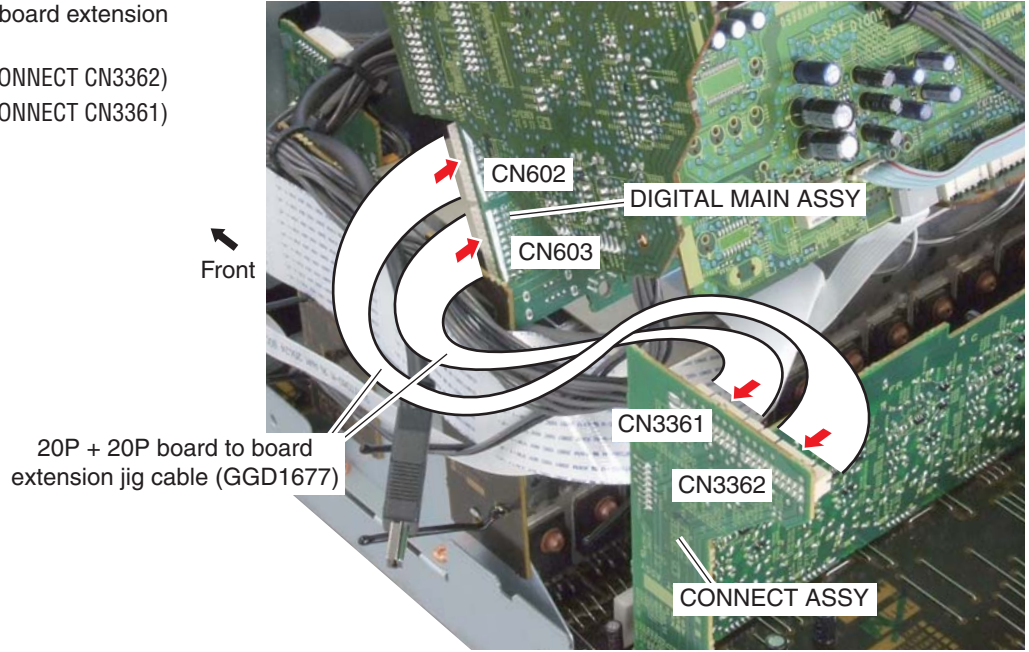
- (1) Arrange the unit as shown in the photo below.
- (2) Connect the Rear Panel to the Chassis Ground.



- (3) Insert the insulation sheet.



- A (4) Connect the two board to board extension jig cables.
(DIGITAL MAIN CN602 <-> CONNECT CN3362)
(DIGITAL MAIN CN603 <-> CONNECT CN3361)



B

C

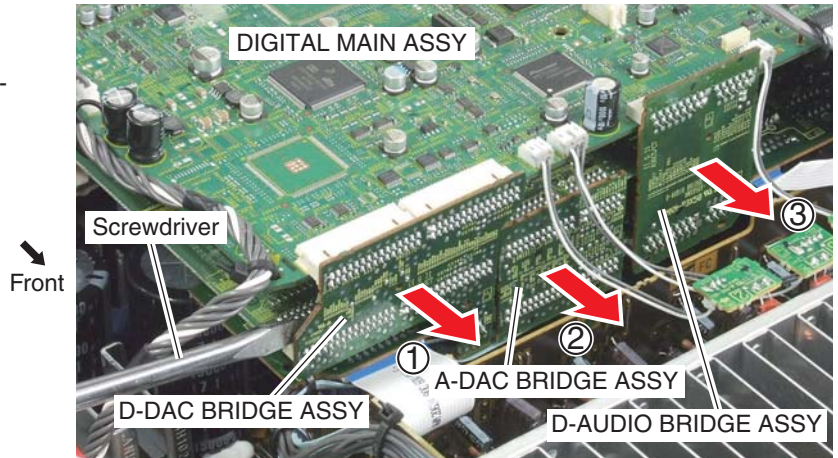
[4] DAC LOW ASSY

- (1) Remove the Bonnet by removing the 18 screws.
- (2) Discharge C5721 and C5722.
(Refer to the "discharge procedures.")

[4-1] Exterior

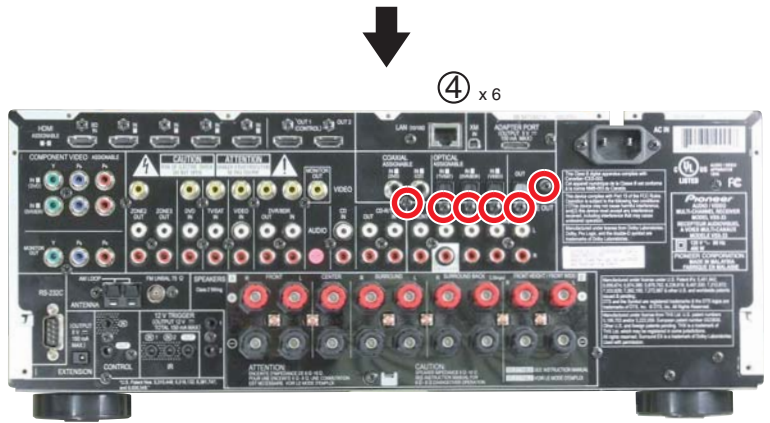
- (1) Remove the D-DAC BRIDGE ASSY.
- (2) Remove the A-DAC BRIDGE ASSY.
- (3) Remove the D-AUDIO BRIDGE ASSY.

D



E

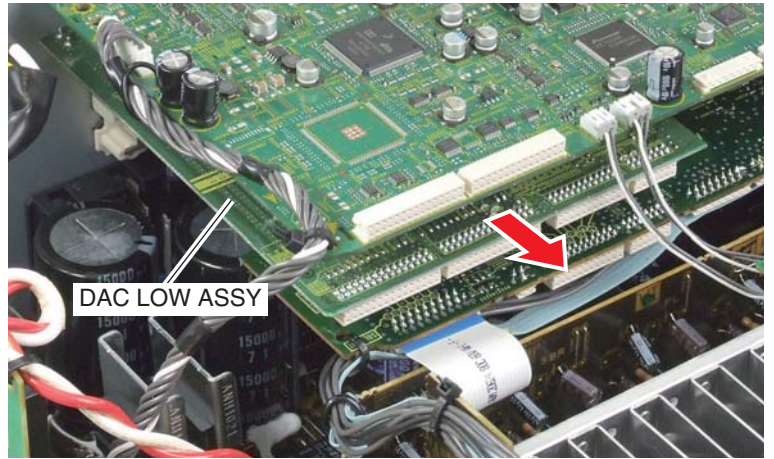
- (4) Remove the six screws. (BBZ30P080FTB)



F

(5) Remove the DAC LOW ASSY.

Front

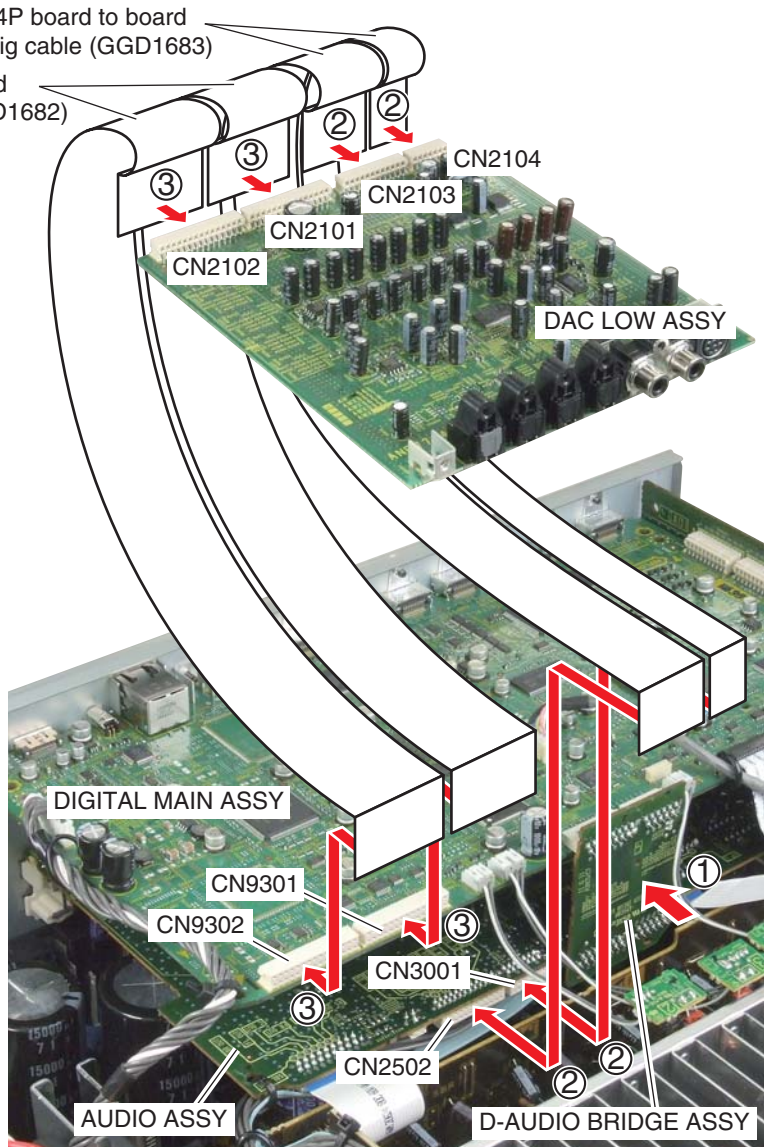


24P + 14P board to board extension jig cable (GGD1683)
 30P board to board extension jig cable (GGD1682)

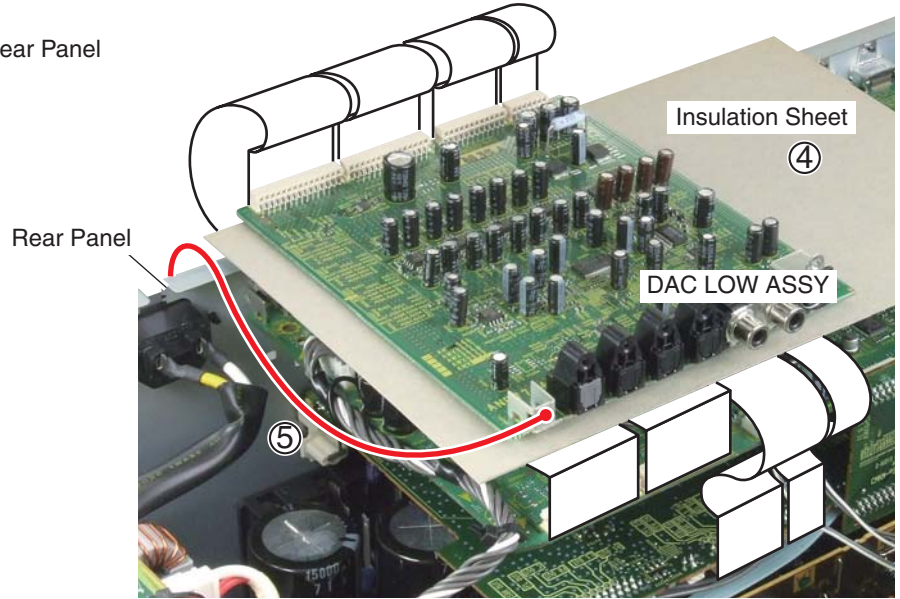
[4-2] Diagnosis

- (1) Reassembling the D-AUDIO BRIDGE ASSY.
- (2) Connect the two board to board extension jig cables.
 (AUDIO CN2502 <-> DAC LOW CN2103)
 (AUDIO CN3001 <-> DAC LOW CN2104)
- (3) Connect the two board to board extension jig cables.
 (DIGITAL MAIN CN9302 <-> DAC LOW CN2102)
 (DIGITAL MAIN CN9301 <-> DAC LOW CN2101)

Front



- A (4) Insert the insulation sheet.
- (5) Connect the DAC LOW ASSY to the Rear Panel ground.
(Refer to the "Ground points.")



B

C

D

E

F

8. EACH SETTING AND ADJUSTMENT

8.1 HOW TO SAVE AND LOAD THE SETTINGS USING BACKUP FUNCTION WITH USB MEMORY

[Introduction]

This model is capable of saving the set values stored in the MAIN Ucom of DIGITAL MAIN ASSY in the USB and loading them in a new DIGITAL MAIN ASSY.
(Note that MAIN Ucom should normally operate to enable this function.)

When replacing DIGITAL MAIN ASSY, execute the above mentioned processes.

[Data that can be saved/cannot be saved]

The following **data can not be saved**. Data other than these can be saved.

Contents to save	Destination to save
Last memory for turning ON/OFF the Main power and power supply for ZONE2 and ZONE3 Last memory for inputting the Main power, ZONE2 and ZONE3 Setting for controlling HDMI Remote control ID Setting for RF remote control (EXPANSION Setup) Setting for Network Standby Data to be save upon the operation of protection circuit	EVENT Ucom
Settings for HMG (Only for SC-37, SC-LX83 system: Because BridgeCo is used.) Preset Memory, Favorite, Recently played, etc.	BridgeCo IC

(As the data saved by EVENT Ucom is on the DI SPLAY ASSY, the data cannot be deleted unless Assy is replaced at the same time.)

[Requirements for USB memory]

USB memory to be used should meet the following requirements.

- Compatible with USB Mass storage Class
- With a file system of FAT (FAT32)

[File saving format]

Files are to be saved in the following format: Model number_backup version.extension(avr)

Example: VSX-LX53_BK01.avr

[How to save in the USB memory from AV amplifier]

1. Insert the usable USB memory into the USB terminal when the main device is off.
2. Enter the SERVICE MODE and select [USB BAK ◀ HOLD ▶] with ↑↓ keys.
(See [6.1 TEST MODE] for how to enter the SERVICE MODE.)
3. Select [USB BAK ◀ SAVE ▶] with ⇄ keys and press [ENTER].
4. Saving in the USB starts and the main device automatically goes off after the normal completion ([COMPLETE] is displayed.).
5. Remove the USB and saving is finished.

*1. If the following errors occur after "SAVE" is executed, error message will be displayed and "SAVE" will be stopped and the power will be turned off.

- Ejecting of USB device
- Short capacity of USB device
- Error during writing in the USB device (Read Only or defective Sector, etc.)

*2. If the same file name exists in the USB, overwriting will be automatically executed.

[How to write into AV amplifier from the USB memory]

1. Insert the USB with the saved file into the USB terminal when the main device is off.
2. Enter the TEST MODE and select [USB BAK ◀ HOLD ▶] with ↑↓ keys.
(See [6.1 TEST MODE] for how to enter the TEST MODE.)
3. Select [USB BAK ◀ LOAD ▶] with ⇄ keys and press [ENTER].
4. Saving in the main device starts and it automatically goes off after the normal completion ([COMPLETE] is displayed.).
5. Remove the USB and loading is finished.

* If the following errors occur after "LOAD" is executed, error message will be displayed and "LOAD" will be stopped and the power will be turned off.

- No setting file
- Mismatching between the setting file and the specification of the A/V RECEIVER type to be loaded back
- Error due to Checksum, Signature Check, and Size Check
- Ejecting of USB device (during reading of the setting file)

Precautions

- Files are stored in Root of USB memory.
 - Files are read from Root of USB memory.
- ⇒ To make operations such as moving files, be sure to assign the saved file in Root of the USB memory.
Also please be careful not to assign *.avr in multiple numbers.

- The time and date of updating for saved file is fixed to "2010/01/01 0:00."
- In principle, please implement Load without making of factory default settings.
To Load from factory default settings status, please take caution on the following points;

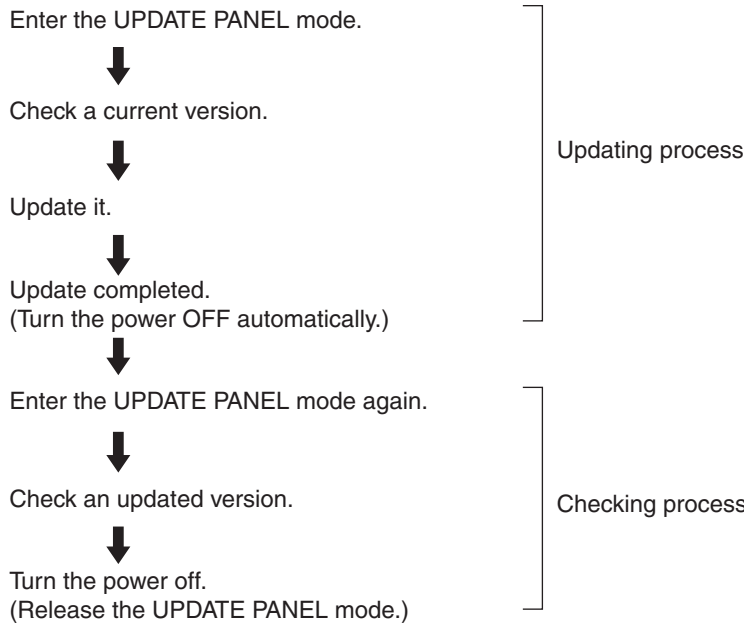
Please be sure to check the HDMI control setting for the user before performing of factory default settings. Since the HDMI control setting of default settings is ON, turn OFF the HDMI control setting and Load after performing of factory default settings if the checked user setting is OFF. (If Load is executed with the setting ON, the assignment information for each HDMI input will be cleared.)

Procedures for turning OFF the HDMI control setting

⇒ HOME MENU ⇒ 4.System Setup ⇒ 4e.Other Setup ⇒ 4e1.HDMI Setup ⇒ Control OFF

8.2 HOW TO UPDATE FIRMWARE

Workflow







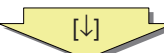


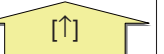
MAIN com (EMMA), SUB com (EVENT) and DSP Flash ROM Update by USB Memory and the Confirmation of the Version

UPDATE PANEL Mode (Version update) [Preparations]

1. Copy the UPDATE FILE to the root directory of the USB Memory.
Note: NEVER copy several UPDATE FILES to the root directory of the USB Memory.
Copy only the corresponding UPDATE FILE.
2. Turn off the power to this unit by setting Multi-Zone to "OFF".
3. Connect the USB Memory to the USB terminal (A type) of the front panel.

[Procedure]


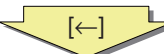
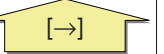

1. While holding down "TUNE?" key on the front panel, press "STANDBY ON/OFF" key and moves to the **UPDATE PANEL mode**.
2. The updating process is as follows.

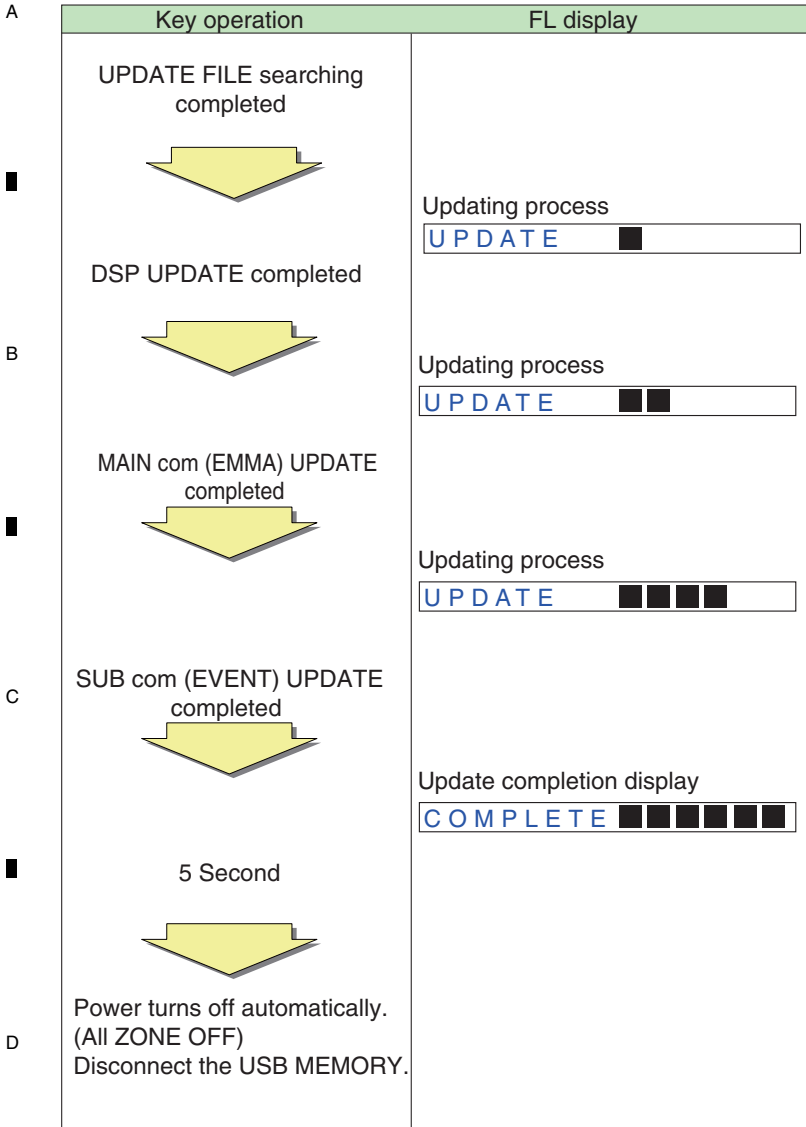
Key operation	FL display
[TUNE↑] + [STANDBY ON/OFF]  Booting is completed 	POWER ON MAIN com (EMMA) version is displayed. MAIN 1.000
[TUNE↓] or [TUNE↑]  	SUB com (EVENT) version is displayed. SUB 1.000
[TUNE↓] or [TUNE↑]  	DSP version is displayed. DSP 1.000
[TUNE↓] or [TUNE↑]  	Update Menu UPDATE

Front Panel Key

[↓] : TUNE key
 [↑] : TUNE key
 [←] : PRESET key
 [→] : PRESET key

If no key is pressed within 10 seconds while booting UPDATE PANEL, the UPDATE PANEL is finished and returns to the normal display. But the process does not become timeout and continues while "FILE searching" or "Updating process".

Key operation	FL display
 [ENTER] [PRESET→] or [PRESET←]	Update Menu UPDATE Update Confirmation UPDATE ? ◀NO▶
 	Update Confirmation UPDATE ? ◀YES▶
 [ENTER] UPDATE FILE searching completed	File searching PLEASE WAIT



Update time is fluctuated by contents of the update. It will take about 15 minutes at the maximum.
 (Actual time is from 2 minutes to 12 minutes.)
 Time required for updating varies, because only the programs that require updating will be updated.

[Confirmation]

Enter UPDATE PANEL mode and check that the programs have been updated.

E

F



5



6



7



8



A



B



C



D



E



F



5



6

VSX-LX53



7



8



9. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

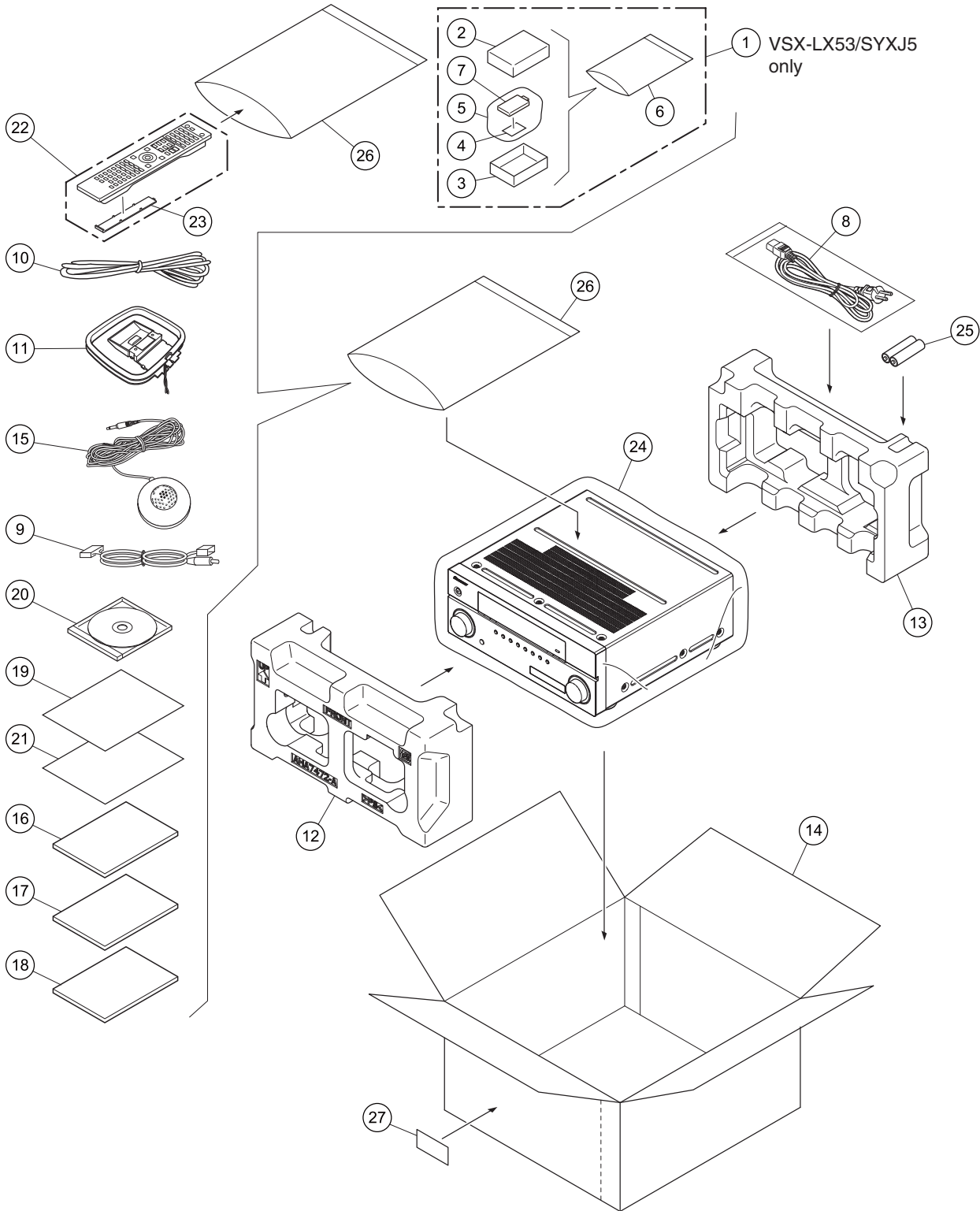
● The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

● Screws adjacent to ∇ mark on product are used for disassembly.

● For the applying amount of lubricants or glue, follow the instructions in this manual.

(In the case of no amount instructions, apply as you think it appropriate.)

9.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

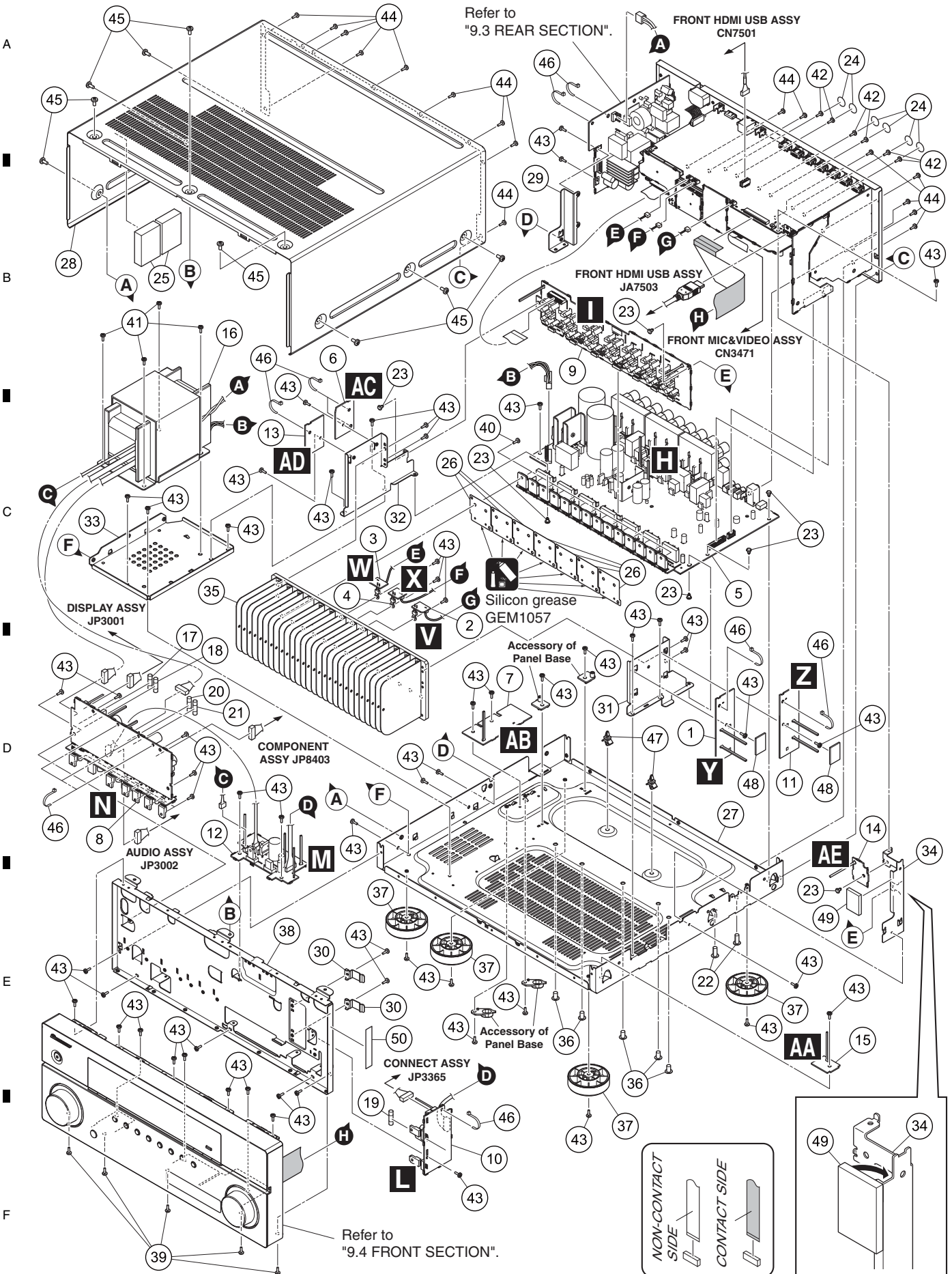
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
NSP 1	Bluetooth AD ASSY	See Contrast table (2)	16	Quick Start Guide (En, Fr, Gr)	ARH7098
NSP 2	Top Case BTA	See Contrast table (2)	17	Quick Start Guide (It, Sp)	ARH7099
NSP 3	Bottom Case BTA	See Contrast table (2)	18	Quick Start Guide (Du, Ru)	ARH7100
NSP 4	BT Label (6L)	See Contrast table (2)	19	Caution Sheet SP, E	ARM7083
5	Nonwoven Sheet BTA	See Contrast table (2)	20	Operating Instructions (CD-ROM)	ARU7002
NSP 6	Polyethylene Bag 55 x 80	See Contrast table (2)	NSP 21	Warranty Card EU	ARY7128
7	Bluetooth ASSY	See Contrast table (2)	22	Remote Control Unit	AXD7592
⚠ 8	Power Cord EU Inlet	XDG3061	23	Battery Cover	AZN8047
9	iPod Cable (USB+V)	ADE7135	24	Packing Sheet	RHC1023
10	FM Wire Antenna	ADH7030	NSP 25	Battery (R3)2P(JE)	VEM1049
11	AM Loop Antenna	XTB3004	NSP 26	Polyethylene Bag 230 x 340	AHG7117
12	Front Pad V5SEL	AHA7472	NSP 27	Serial Label S	VRW2017
13	Rear Pad V5SEL	AHA7473			
14	Packing Case	See Contrast table (2)			
15	MCACC Setup Microphone (5 m)APM7009				

(2) CONTRAST TABLE

VSX-LX53/SYXJ5 and VSX-2020-K/SYXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX53	VSX-2020-K
NSP	1	Bluetooth AD ASSY	AXF7022	Not used
NSP	2	Top Case BTA	AAK8468	Not used
NSP	3	Bottom Case BTA	AAK8469	Not used
NSP	4	BT Label (6L)	AAL7444	Not used
	5	Nonwoven Sheet BTA	AHG7142	Not used
NSP	6	Polyethylene Bag 55 x 80	AHG7153	Not used
	7	Bluetooth ASSY	AWM8111	Not used
	14	Packing Case	AHD8672	AHD8708

9.2 EXTERIOR SECTION



EXTERIOR SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	BIND L FRONT ASSY	AWX9574	31	H.S. Angle V5S L	ANG7611
2	POSI 1 ASSY	AWX9576	32	H.S. Angle V5S R	ANG7612
3	POSI 2 ASSY	AWX9577	NSP 33	Trans Frame V5S	ANG7629
4	POSI 3 ASSY	AWX9578	34	Right Angle V7S	ANG7671
5	POWER AMP ASSY	AWX9660	NSP 35	Heat Sink V5S	ANH7199
6	BIND R BACK ASSY	AWX9586	36	Card Spacer	DNK2769
7	BIND DM CABLE ASSY	AWX9575	37	Insulator ASSY	DXA1904
8	REGULATOR ASSY	AWX9579	NSP 38	Panel Stay V7S	ANG7673
9	PRESTAGE ASSY	AWX9580	39	Screw 3 x 10 (FE)(VSX-LX53)	ABA1193
10	USB REGULATOR ASSY	AWX9581		Screw(VSX-2020-K)	BBZ30P080FCC
11	BIND L BACK ASSY	AWX9585	40	Screw 3 x 19 (FE)	ABA7085
12	XM REGULATOR ASSY	AWX9667	41	Screw 4 x 12 (FE)	ABA7109
13	BIND R FRONT ASSY	AWX9584	42	Screw	BBT30P100FCC
14	BIND DISP FFC ASSY	AWX9668	43	Screw	BBZ30P080FCC
15	BINDER ASSY	AWX9595	44	Screw	BBZ30P080FTB
⚠ 16	Power Transformer	ATS7435	45	Screw	BCZ40P060FTB
⚠ 17	Fuse (FU6 : T800MA)	AEK7072	NSP 46	Binder (BK-1)	ZCA-BK1
⚠ 18	Fuse (FU7 : T800MA)	AEK7072	47	Locking Card Spacer	PNW2917
⚠ 19	Fuse (FU10 : T1.25A)	AEK7074	48	FCC Cushion	AEB7404
⚠ 20	Fuse (FU8 : T1.6A)	AEK7075	49	Cushion T3 20 x 35	AEB7406
⚠ 21	Fuse (FU9 : T1.6A)	AEK7075	50	Acetate Tape 10 x 60	AEH7029
22	PCB Holder	AEC7057			
23	Nylon Rivet	AEC7406			
24	Cushion Circle 14B	AED7081			
25	Top Cushion	AED7121			
26	Mica Sheet V5SEL	AEE7068			
NSP 27	Chassis V7S	ANA7227			
28	Bonnet B V7S	AZN8044			
29	Primary Angle	ANG7526			
NSP 30	Transistor Holder	ANG7543			

9.3 REAR SECTION

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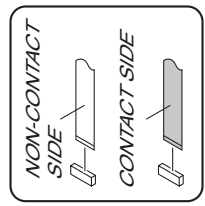
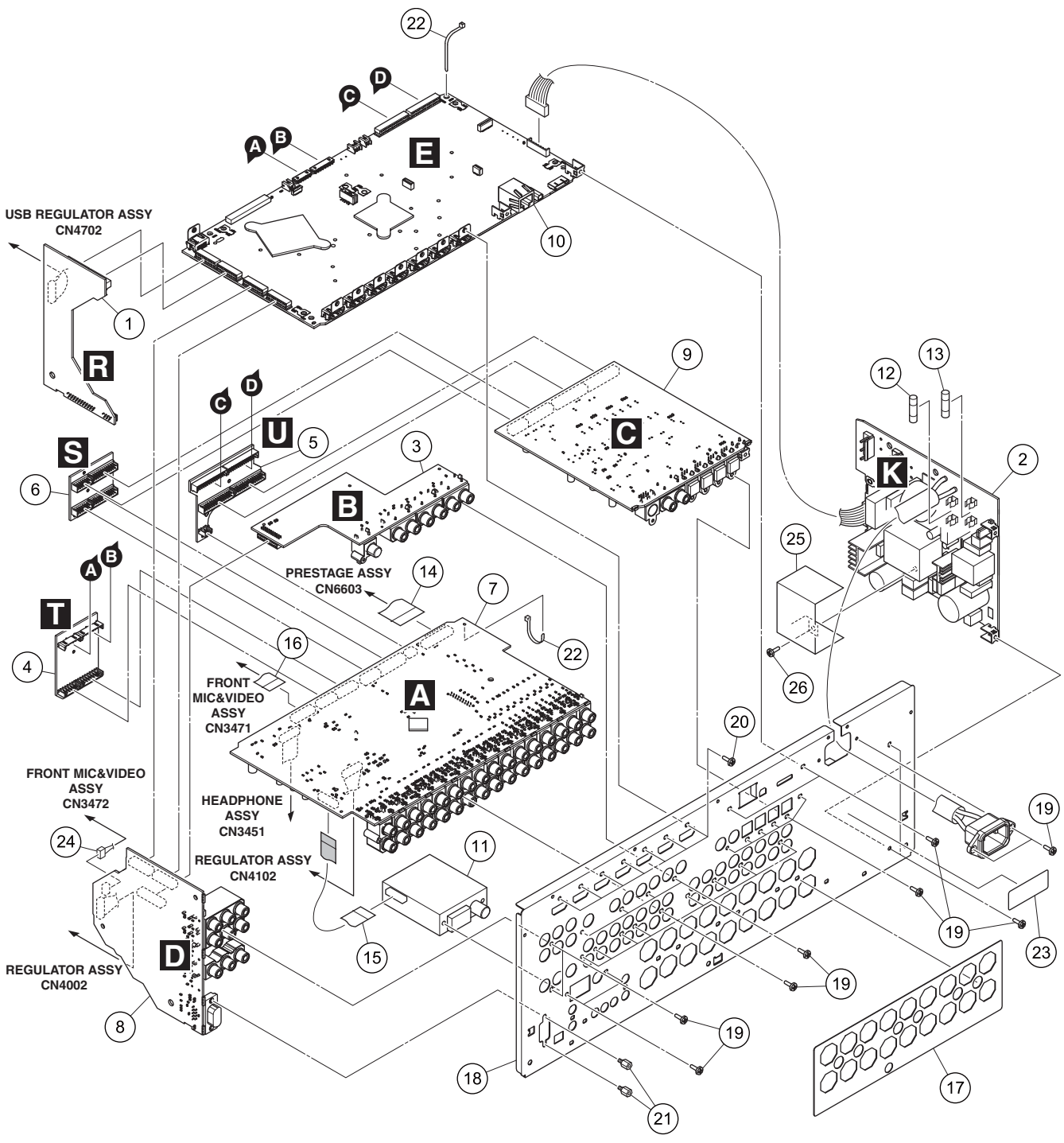
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REAR SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	CONNECT ASSY	AWX9592	
2	PRIMARY ASSY	AWX9676	A
3	COMPOSITE ASSY	AWX9568	
4	D-AUDIO BRIDGE ASSY	AWX9569	
5	D-DAC BRIDGE ASSY	AWX9570	
6	A-DAC BRIDGE ASSY	AWX9571	
7	AUDIO ASSY	AWX9644	
8	COMPONENT ASSY	AWX9572	
9	DAC LOW ASSY	AWX9657	
10	DIGITAL MAIN ASSY	AWX9719	
11	FM/AM TUNER Unit	AXX7265	B
⚠	12 Fuse (FU1 : T5A)	AEK1061	
⚠	13 Fuse (FU4 : 4A)	REK1104	
14	19P FFC/60V (J53)	ADD7730	
15	11P FFC/60V (J55)	ADD7729	
16	7P FFC/60V (J54)	ADD7731	
17	SP Sheet V7S	AEC7641	
18	Rear Panel(VSX-LX53)	ANC8586	
	Rear Panel(VSX-2020-K)	ANC8595	
19	Screw	BBZ30P080FTB	C
20	Screw	BMZ30P040FTB	
21	Hex head Screw 2.85 X 7 (BS)	ABA7078	
NSP	22 Binder (BK-1)	ZCA-BK1	
NSP	23 Serial Label S	VRW2017	
24	3P Housing Assy(J59)	ADX7739	
25	Shield Case	AMR7557	
26	Screw	BBZ30P080FCC	

9.4 FRONT SECTION

A

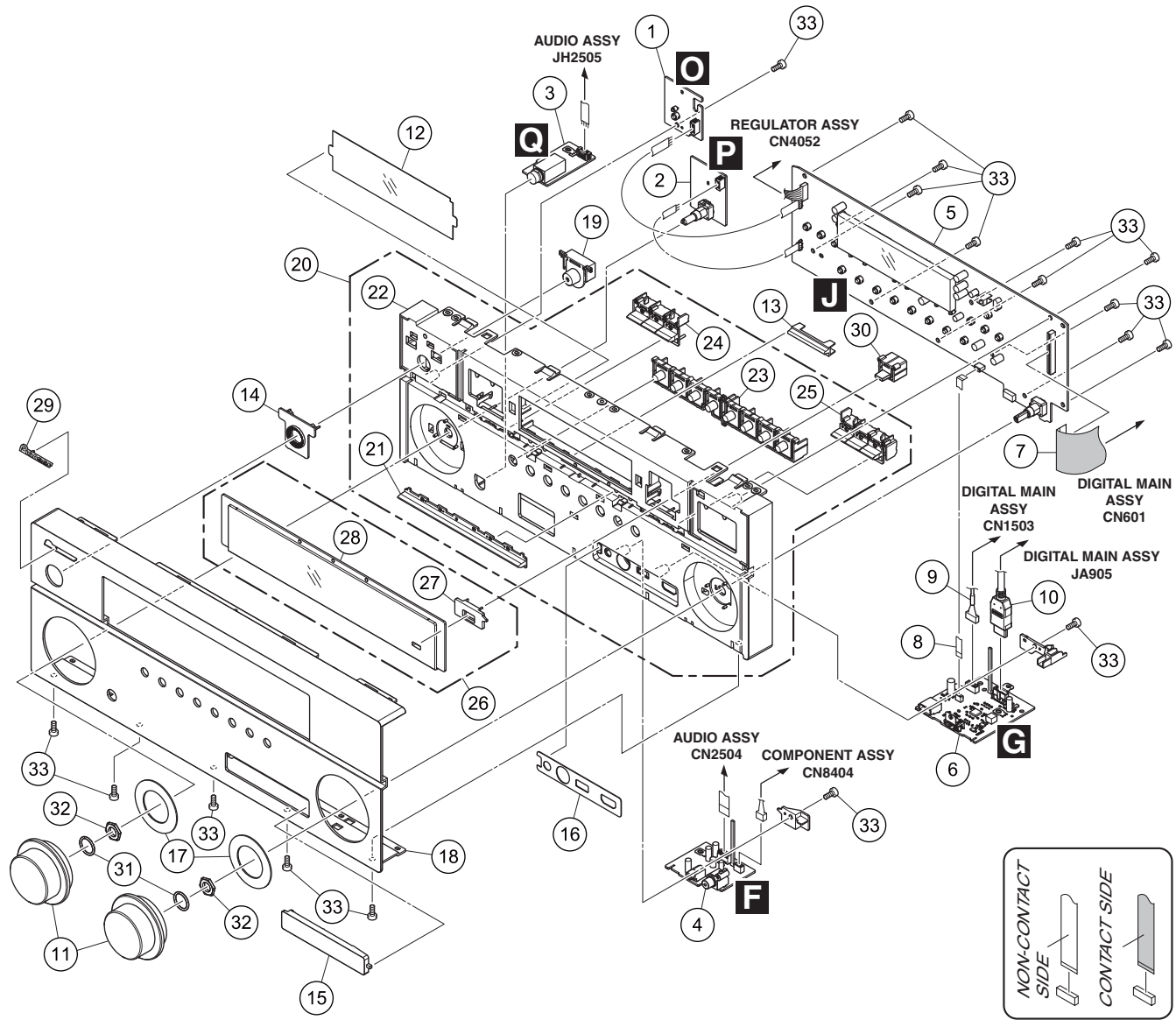
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(1) FRONT SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	POWER SW ASSY	AWX9588	18	Front Panel	See Contrast table (2)
2	ENCODER ASSY	AWX9589	19	Standby BTN ASSY	AXG7400
3	HEADPHONE ASSY	AWX9590	20	P Base ASSY	See Contrast table (2)
4	FRONT MIC & VIDEO ASSY	AWX9593			
5	DISPLAY ASSY	See Contrast table (2)	21	Center Lens V6S H	AAK8505
			22	Panel Base	AMB8010
6	FRONT HDMI USB ASSY	AWX9565	23	Circle Button V6S H	XAD3278
7	39P FFC/60V (J56)	ADD7733	24	CTR BTN Right ASSY	XXG3415
8	4P FFC/60V (J57)	ADD7734	25	CTR BTN Left ASSY	XXG3416
9	5P Housing ASSY (J58)	ADX7731			
10	HDMI Cable (J52)	ADX7732	26	Window ASSY	AXG7424
			27	Enter BTN Spacer V6	AAK8479
11	VOL. Knob	AAA7059	NSP 28	Window	AAK8525
12	Filter 60HY	AAK8413	29	Pioneer Badge	VAM1158
13	IB Lens V5SEL	AAK8430	30	Enter Button V6S	XAD3271
14	Power Ring	AAK8471			
15	Input Cover	AAK8528	NSP 31	C Ring DIM 8.1	XBH3016
			32	Nut	NK90FTC
16	Input Sheet	AAK8531	33	Screw	PPZ30P080FNI
17	VOL Stabilizer 82	AEC7629			

(2) CONTRAST TABLE

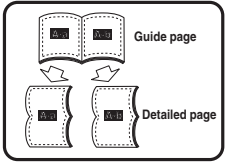
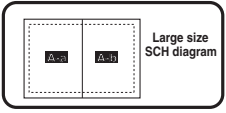
VSX-LX53/SYXJ5 and VSX-2020-K/SYXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX53	VSX-2020-K
	5	DISPLAY ASSY	AWX9669	AWX9726
	18	Front Panel	ANB7544	AMB8031
	20	P Base ASSY	AXG7403	AXG7432

10. SCHEMATIC DIAGRAM

10.1 AUDIO ASSY(1/3)(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".



A-a 1/3

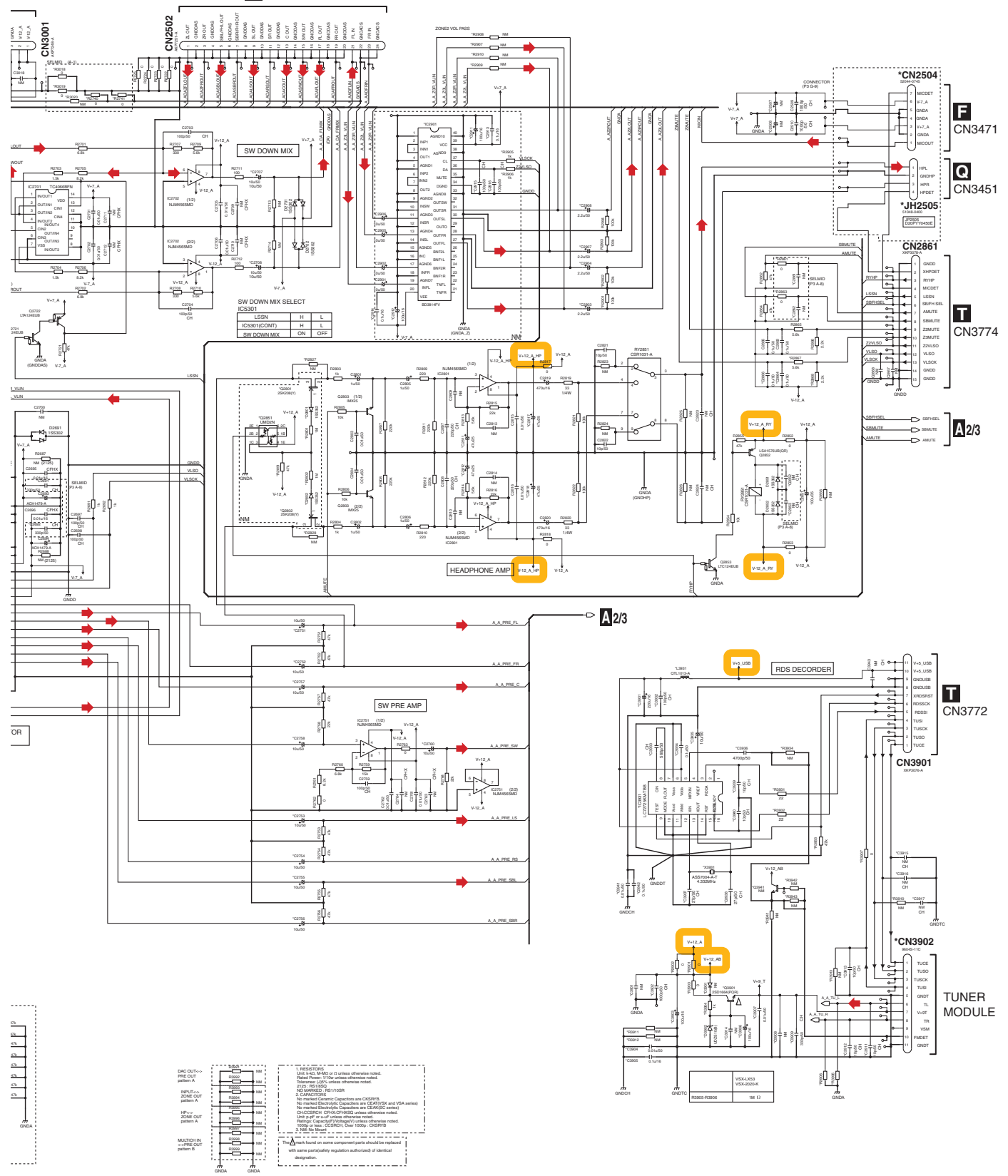
RESISTOR (R-1)	RESISTOR (R-2)	RESISTOR (R-3)	RESISTOR (R-4)
R001	R002	R003	R004
R005	R006	R007	R008
R009	R010	R011	R012
R013	R014	R015	R016
R017	R018	R019	R020
R021	R022	R023	R024
R025	R026	R027	R028
R029	R030	R031	R032
R033	R034	R035	R036
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C101	C102</		

A/1/3 AUDIO ASSY (1/3) (AWX9644)

A-b 1/3

S CN3794



1 RESISTORS
 2 CAPACITORS
 3 IC'S
 4 CONNECTORS
 5 UNMATCHED ELECTRICAL CAPACITORS ARE CEATED/SD AND USA SERIES
 6 CHOCOLATE CAPACITORS ARE CEATED/SD AND USA SERIES
 7 CHOCOLATE CAPACITORS ARE CEATED/SD AND USA SERIES
 8 2000pF OR 2000PF CAPACITORS ARE CEATED/SD AND USA SERIES
 9 1000pF OR 1000PF CAPACITORS ARE CEATED/SD AND USA SERIES
 10 2000pF OR 2000PF CAPACITORS ARE CEATED/SD AND USA SERIES
 11 2000pF OR 2000PF CAPACITORS ARE CEATED/SD AND USA SERIES
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 15 2000pF OR 2000PF CAPACITORS ARE CEATED/SD AND USA SERIES
 16 2000pF OR 2000PF CAPACITORS ARE CEATED/SD AND USA SERIES
 17 2000pF OR 2000PF CAPACITORS ARE CEATED/SD AND USA SERIES
 18 2000pF OR 2000PF CAPACITORS ARE CEATED/SD AND USA SERIES
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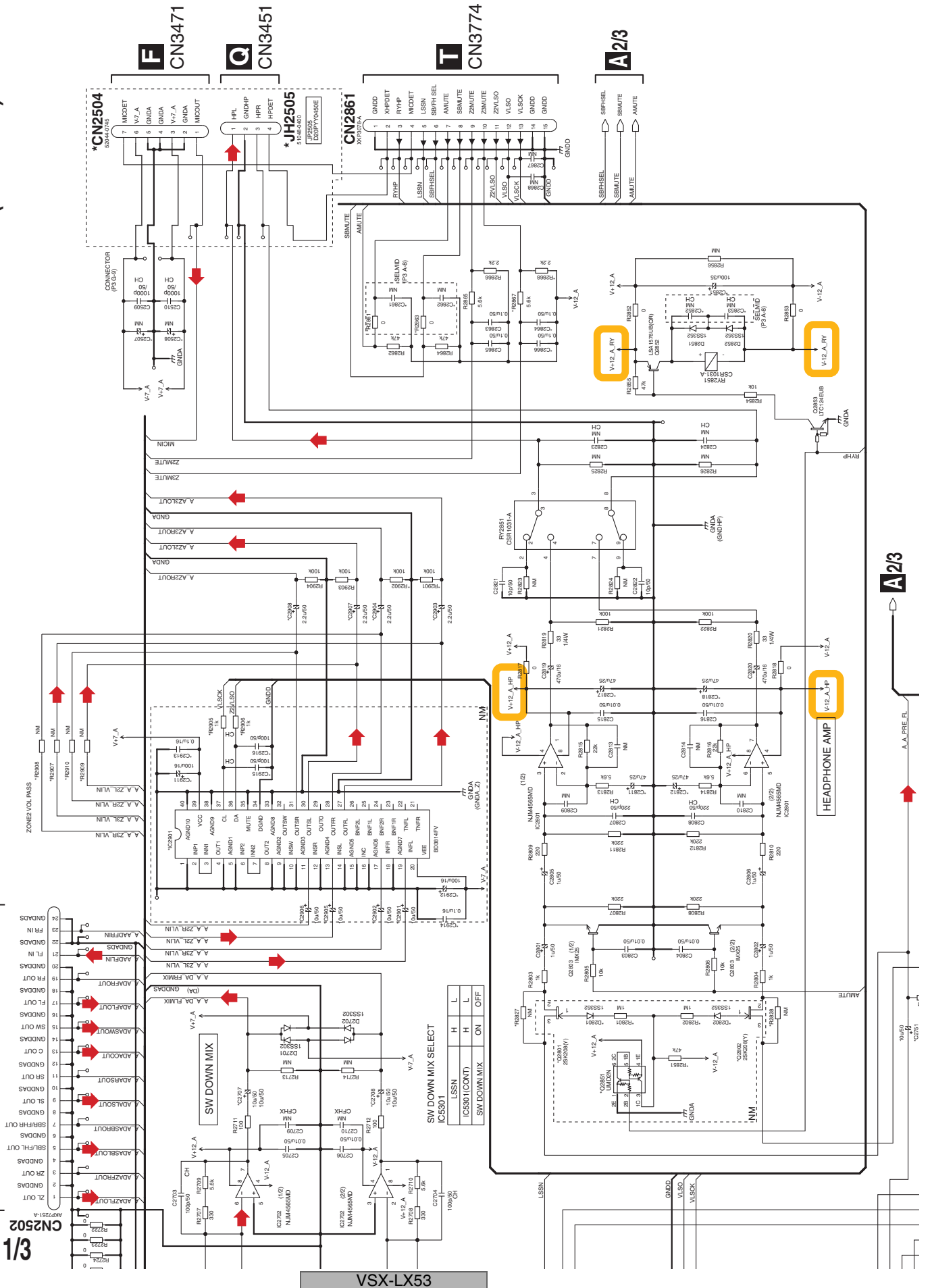
A 1/3 AUDIO ASSY (1/3) (AWX9644)

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A-b 1/3

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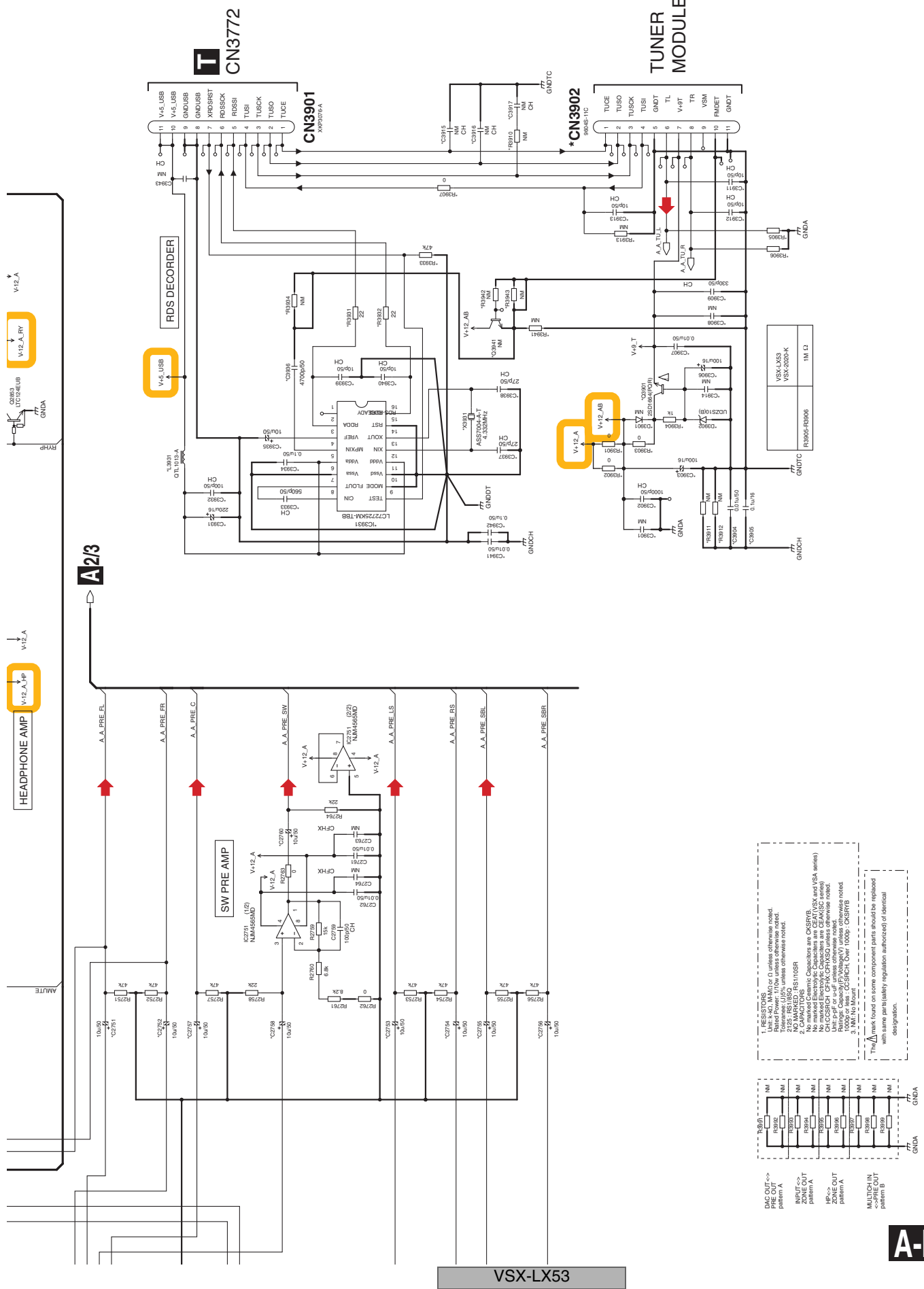


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2

3

4



VSX-LX53
 1. 1000pF or 0.1µF unless otherwise noted.
 2. 100k unless otherwise noted.
 3. 10k unless otherwise noted.
 4. 100k unless otherwise noted.
 5. 100k unless otherwise noted.
 6. 100k unless otherwise noted.
 7. 100k unless otherwise noted.
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 32. 100k unless otherwise noted.
 33. 100k unless otherwise noted.
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 96. 100k unless otherwise noted.
 97. 100k unless otherwise noted.
 98. 100k unless otherwise noted.
 99. 100k unless otherwise noted.
 100. 100k unless otherwise noted.

A-a A-b

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A-a 1/3

90

A-a A-b

CN4102

CN3792

EMC (B.2, F.2.1.2)	
VSK-LX3	VSK-3203-K
C2501-C2504	C2581-C2584
C2521-C2524	C2561-C2564
C2541-C2544	C2521-C2524
C2565-C2568	C2541-C2544
C2589-C2592	C2565-C2568
C2971-C2972	C2589-C2592

JACK (B-1)	
VSK-LX3	VSK-3203-K
JA2501	JA2504
JA2506	JA2507
JA2508	JA2509
JA2510	JA2511
JA2512	JA2513
JA2514	JA2515
JA2516	JA2517
JA2518	JA2519
JA2520	JA2521

SEL.MID (B-5)	
AW0844-J	
R207	R208
R209	R210
R211	R212
R213	R214
R215	R216
R217	R218
R219	R220
R221	R222
R223	R224
R225	R226
R227	R228
R229	R230
R231	R232
R233	R234
R235	R236
R237	R238
R239	R240
R241	R242
R243	R244
R245	R246
R247	R248
R249	R250
R251	R252
R253	R254
R255	R256
R257	R258
R259	R260
R261	R262
R263	R264
R265	R266
R267	R268
R269	R270
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R273	R274
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R317	R318
R319	R320
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R323	R324
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R331	R332
R333	R334
R335	R336
R337	R338
R339	R340
R341	R342
R343	R344
R345	R346
R347	R348
R349	R350
R351	R352
R353	R354
R355	R356
R357	R358
R359	R360
R361	R362
R363	R364
R365	R366
R367	R368
R369	R370
R371	R372
R373	R374
R375	R376
R377	R378
R379	R380
R381	R382
R383	R384
R385	R386
R387	R388
R389	R390
R391	R392
R393	R394
R395	R396
R397	R398
R399	R400
R401	R402
R403	R404
R405	R406
R407	R408
R409	R410
R411	R412
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R415	R416
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R421	R422
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R531	R532
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R541	R542
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R561	R562
R563	R564
R565	R566
R567	R568
R569	R570
R571	R572
R573	R574
R575	R576
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R581	R582
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R667	R668
R669	R670
R671	R672
R673	R674
R675	R676
R677	R678
R679	R680
R681	R682
R683	R684
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R699	R700
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R707	R708
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R711	R712
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R719	R720
R721	R722
R723	R724
R725	R726
R727	R728
R729	R730
R731	R732
R733	R734
R735	R736
R737	R738
R739	R740
R741	R742
R743	R744
R745	R746
R747	R748
R749	R750
R751	R752
R753	R754
R755	R756
R757	R758
R759	R760
R761	R762
R763	R764
R765	R766
R767	R768
R769	R770
R771	R772
R773	R774
R775	R776
R777	R778
R779	R780
R781	R782
R783	R784
R785	R786
R787	R788
R789	R790
R791	R792
R793	R794
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R797	R798
R799	R800
R801	R802
R803	R804
R805	R806
R807	R808
R809	R810
R811	R812
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R819	R820
R821	R822
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R847	R848
R849	R850
R851	R852
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R857	R858
R859	R860
R861	R862
R863	R864
R865	R866
R867	R868
R869	R870
R871	R872
R873	R874
R875	R876
R877	R878
R879	R880
R881	R882
R883	R884
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R887	R888
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R969	R970
R971	R972
R973	R974
R975	R976
R977	R978
R979	R980
R981	R982
R983	R984
R985	R986
R987	R988
R989	R990
R991	R992
R993	R994
R995	R996
R997	R998
R999	R1000

SEL.MID (A-1)	
AW0844-J	
C077	C078
C079	C080
C081	C082
C083	C084
C085	C086
C087	C088
C089	C090
C091	C092
C093	C094
C095	C096
C097	C098
C099	C100
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C323	C324
C325	C326
C327	C328
C329	C330
C331	C332
C333	C334
C335	C336
C337	C338
C339	C340

10.2 AUDIO ASSY(2/3)

SELVID	VSX-LX53/VSX-2020-K
C3053	NM
C3054	NM
C3055	NM
C3056	NM
C3057	NM
C3058	NM
R3051	NM
R3052	NM
R3053	10
R3054	10
CN3051	NM
CN3052	9607S-19F

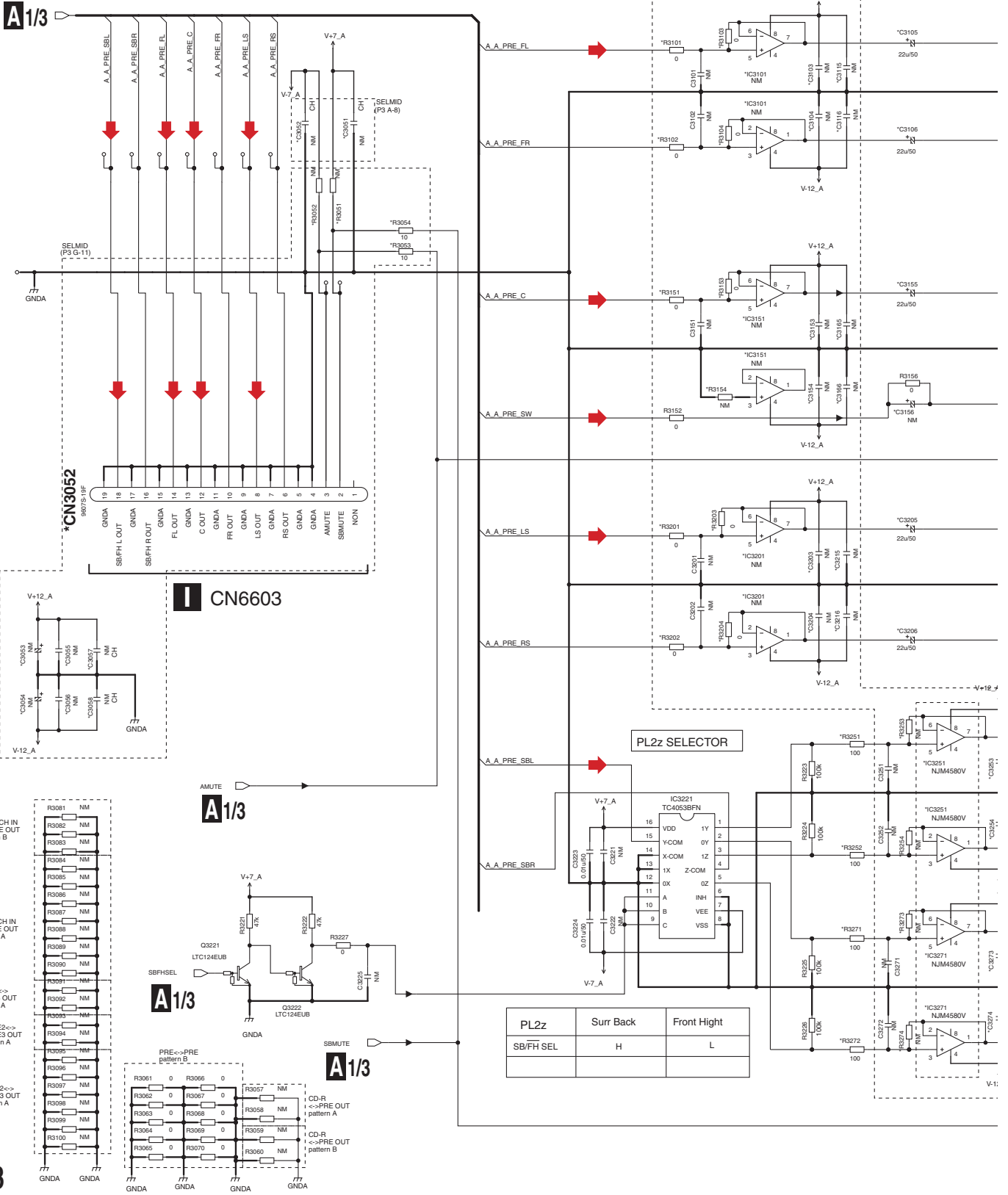
NOTE

1. RESISTORS
 Unit: k-Ω, M-Ω or Ω unless otherwise noted.
 Rated Power: 1/10w unless otherwise noted.
 Tolerance: ±5% unless otherwise noted.
 2125 : RS1/8SC
 NO MARKED : RS1/10SR

2. CAPACITORS
 No marked Ceramic Capacitors are CKSRYB.
 No marked Electrolytic Capacitors are CEAT(VSX and VSA series)
 No marked Electrolytic Capacitors are CEAK(SC series)
 CH:CCSRCH CFHX:CFHXSC unless otherwise noted.
 Unit: p-pF or μ-pF unless otherwise noted.
 Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
 1000p or less : CCSRCH, Over 1000p : CKSRYB

3. NM: No Mount

The  with a dashed line indicates a component to be mounted with a specific orientation or location.



A 1/3

CN6603

A 1/3

A 1/3

Component	Value	Notes
R3081	NM	MULTICH IN ↔ PRE OUT pattern B
R3082	NM	
R3083	NM	
R3084	NM	
R3085	NM	
R3086	NM	
R3087	NM	MULTICH IN ↔ PRE OUT pattern A
R3088	NM	
R3089	NM	
R3090	NM	
R3091	NM	
R3092	NM	
R3093	NM	INPUT ↔ ZONES OUT pattern A
R3094	NM	
R3095	NM	
R3096	NM	
R3097	NM	
R3098	NM	
R3099	NM	ZONE2 ↔ ZONES OUT pattern A
R3100	NM	
R3101	NM	
R3102	NM	
R3103	NM	
R3104	NM	

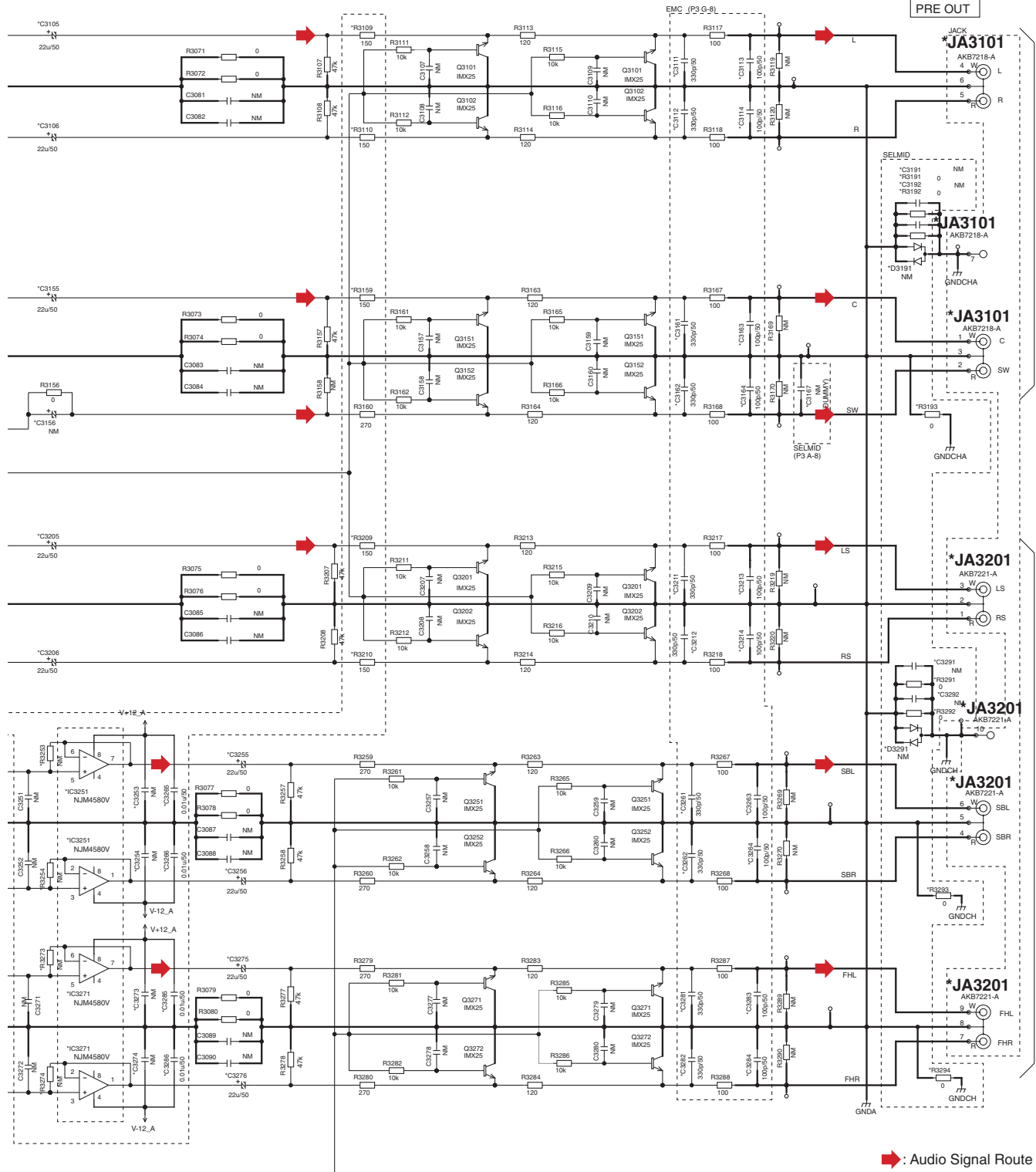
Component	Value	Notes
R3061	0	CD-R ↔ PRE OUT pattern A
R3062	0	
R3063	0	
R3064	0	
R3065	0	
R3066	0	
R3067	0	CD-R ↔ PRE OUT pattern B
R3068	0	
R3069	0	
R3070	0	
R3071	0	
R3072	0	

A 2/3

A^{2/3} AUDIO ASSY (2/3) (AWX9644)

The Δ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

VSX-LX53	VSX-2020-K
JA3101	XXB3017-
JA3201	XXB3037-



➔ : Audio Signal Route

10.3 AUDIO ASSY(3/3)

PHONO (P1 L-2)

	VSX-LX53 VSX-2020-K
C2661	NM
C2662	NM
C2663	NM
C2664	NM
C2665	NM
C2666	NM
C2667	NM
C2668	NM
C2669	NM
C2670	NM
C2671	NM
C2672	NM
C2673	NM
C2674	NM
C2675	NM
C2676	NM
C2677	NM
C2678	NM
C2679	NM
C2680	NM
C2681	NM
C2682	NM
R2661	NM
R2662	NM
R2663	NM
R2664	NM
R2665	NM
R2666	NM
R2667	NM
R2668	NM
R2669	NM
R2670	NM
R2671	NM
R2672	NM
R2673	NM
R2674	NM
R2675	NM
R2676	NM
R2678	0
R2680	0
R2683	NM
L2661	NM
L2662	NM
L2663	NM
L2664	NM
IC2661	NM

RDS (P1 G-13)

	VSX-LX53 VSX-2020-K
C3931	220u/16
C3932	100p/50
C3933	560p/50
C3934	0.1u/50
C3935	10u/50
C3936	4700p/50
C3937	27p/50
C3938	27p/50
C3939	NM
C3940	NM
C3941	0.01u/50
C3942	0.1u/16
R3931	22
R3932	22
R3933	47k
R3934	NM
R3941	NM
R3942	NM
R3943	NM
L3931	QTL1013-A
IC3931	LC72725KM
Q3941	NM
X3931	ASS7004-A

NOTE

- RESISTORS
Unit: kΩ, MΩ or Ω unless otherwise noted.
Rated Power: 1/10w unless otherwise noted.
Tolerance: J(5%) unless otherwise noted.
2125: RS1/RSO
NO MARKED: RS1/10SR
- CAPACITORS
No marked Ceramic Capacitors are CKSRYB.
No marked Electrolytic Capacitors are CEAT(VSX and VSA series)
No marked Electrolytic Capacitors are CEAK(SC series)
CH:CCSRCH, CFH,CFHXSO unless otherwise noted.
Unit: pF or μF unless otherwise noted.
Rating: Capacity(F)/Voltage(V) unless otherwise noted.
1000p or less: CCSRCH, Over 1000p: CKSRYB
- NM: No Mount

PREBUFFER (P2 B-5)

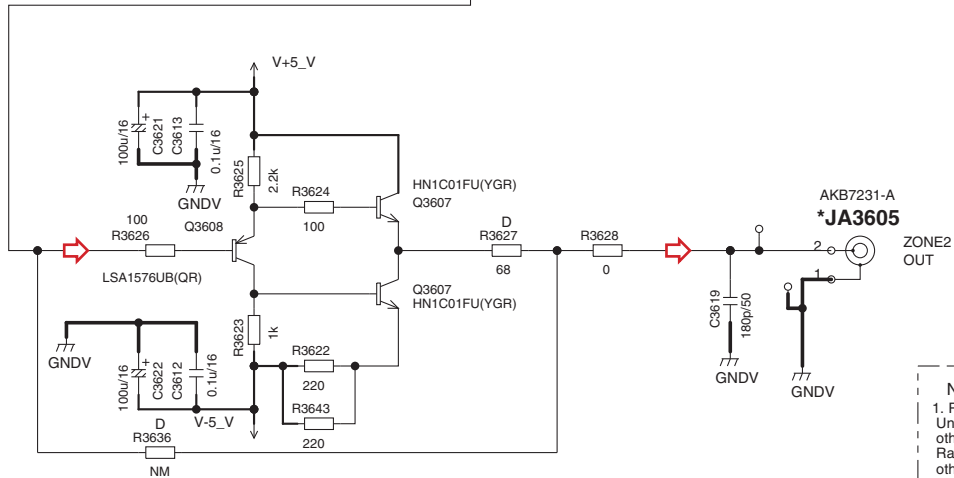
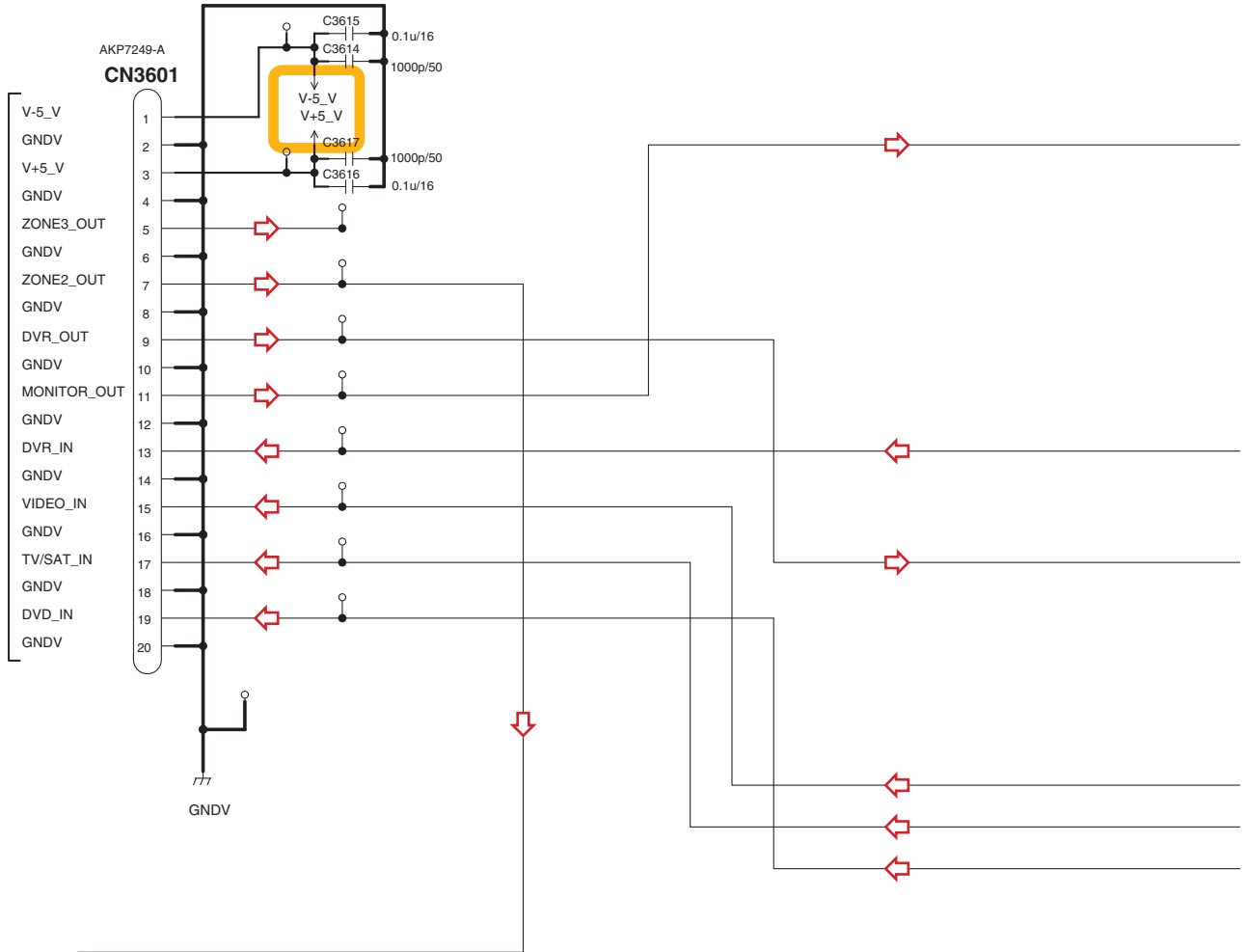
	VSX-LX53 VSX-2020-K
C3103	NM
C3104	NM
C3115	NM
C3116	NM
C3153	NM
C3154	NM
C3165	NM
C3166	NM
C3203	NM
C3204	NM
C3215	NM
C3216	NM
C3253	NM
C3254	NM
C3265	0.01u/50
C3266	0.01u/50
C3273	NM
C3274	NM
C3285	0.01u/50
C3286	0.01u/50
R3101	0
R3102	0
R3103	0
R3104	0
R3109	150
R3110	150
R3151	0
R3153	0
R3154	NM
R3159	150
R3201	0
R3202	0
R3203	0
R3204	0
R3209	150
R3210	150
R3253	NM
R3254	NM
R3273	NM
R3274	NM
IC3101	NM
IC3151	NM
IC3201	NM
IC3251	NJM4565V
IC3271	NJM4565V

TUNER (P1 J-13)

	VSX-LX53 VSX-2020-K
C3901	NM
C3902	1000p/50
C3903	100u/16
C3904	0.01u/50
C3905	0.1u/16
C3906	100u/16
C3907	0.01u/50
C3908	NM
C3909	330p/50
C3911	10p/50
C3912	10p/50
C3913	10p/50
C3914	NM
C3915	NM
C3916	NM
C3917	NM
R3901	0
R3902	0
R3903	0
R3904	1k
R3905	1M
R3906	1M
R3907	0
R3910	NM
R3911	NM
R3912	NM
R3913	NM
CN3902	9604S-11C
D3901	NM
D3902	UDZ510(B)
Q3901	2SD1664(PQR)

10.4 COMPOSITE ASSY

	VSX-LX53, VSX-2020K
	AWX9568-
JA3601-3	AKB7229-A
JA3604	-
JA3605	AKB7231-A



NOTE

1. RESISTORS
Unit: k-k Ω, M-M Ω or Ω unless otherwise noted.
Rated Power: 1/10w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.

2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CH : CCSRCH
NO MARKED : CKSRYB
3. NM: No Mount

↔: Video Signal Route

B COMPOSITE ASSY (AWX9568)

A

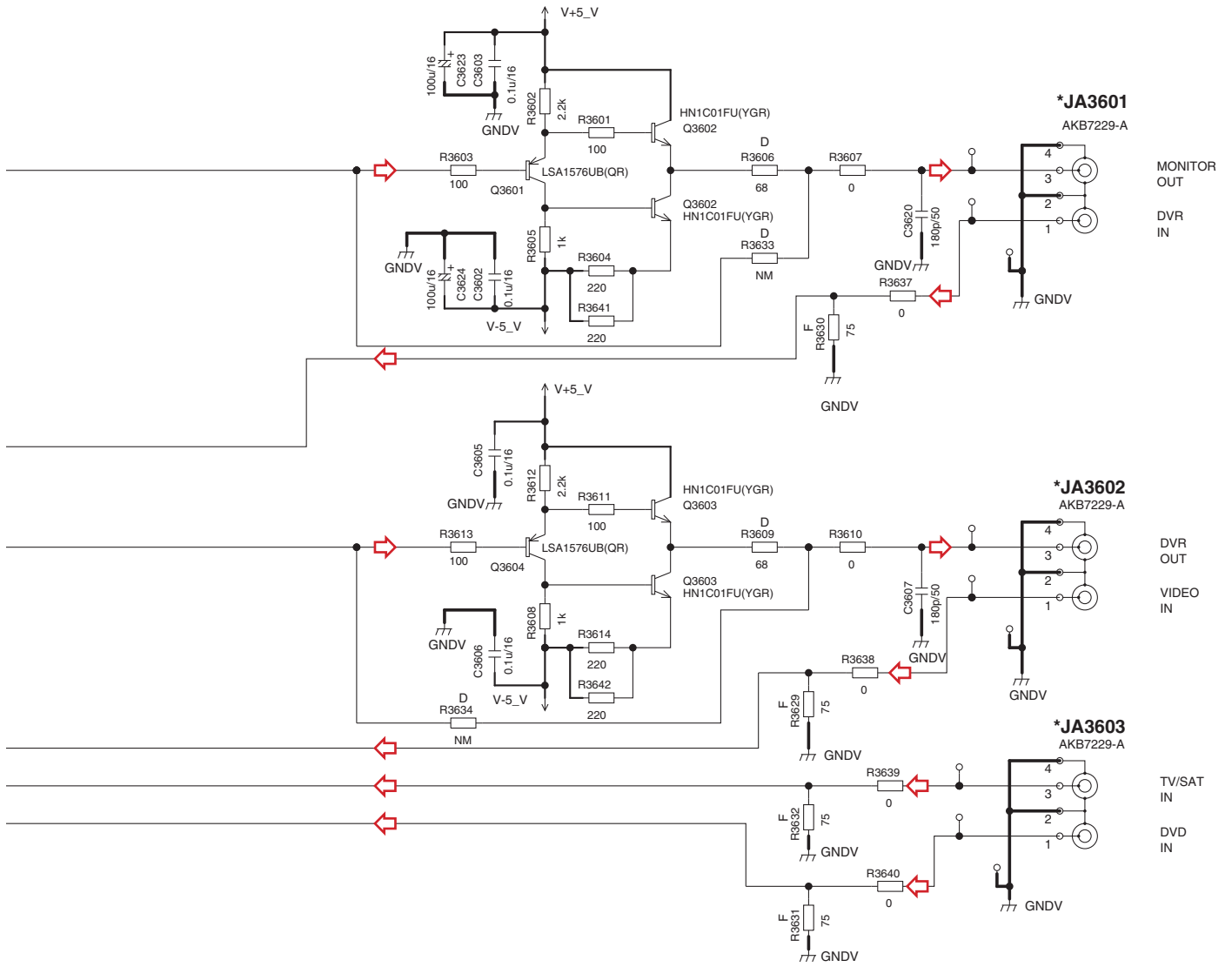
B

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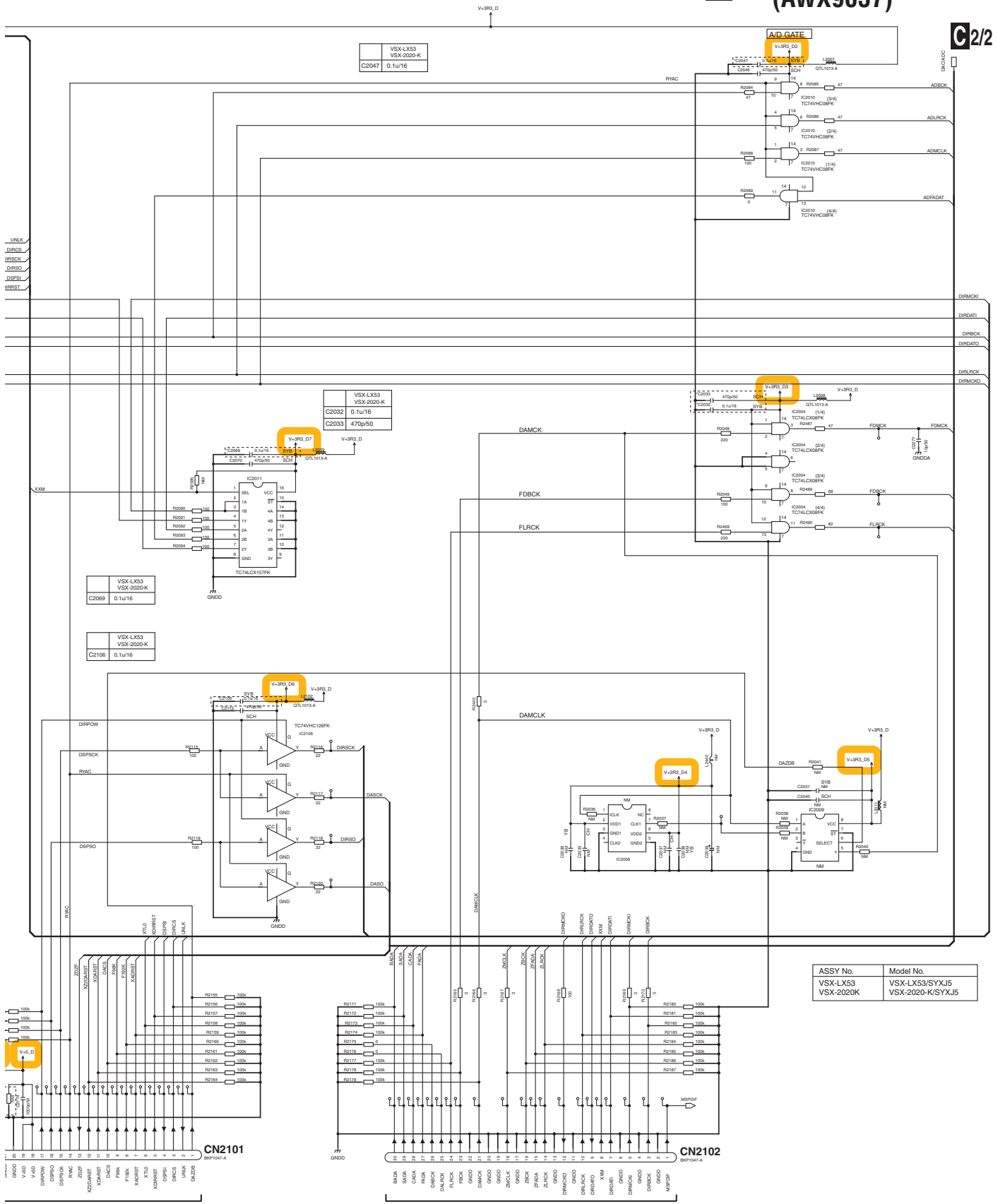
F



M Ω or Ω unless
 i.
 /10w unless
 i.
 % unless
 i.
 S
 uF unless
 i.
 ity(F)/Voltage(V)
 e noted.
 CKSRYB
 it

C1/2 DAC LOW ASSY (1/2) (AWX9657)

A
B
C
D
E
F



ASSY No.	Model No.
VSX-LX53	VSX-LX53/SYXJ5
VSX-2020K	VSX-2020-K/SYXJ5

UCN3783

UCN3781

VSX-LX53

C1/2

10.6 DAC LOW ASSY(2/2)

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4

A

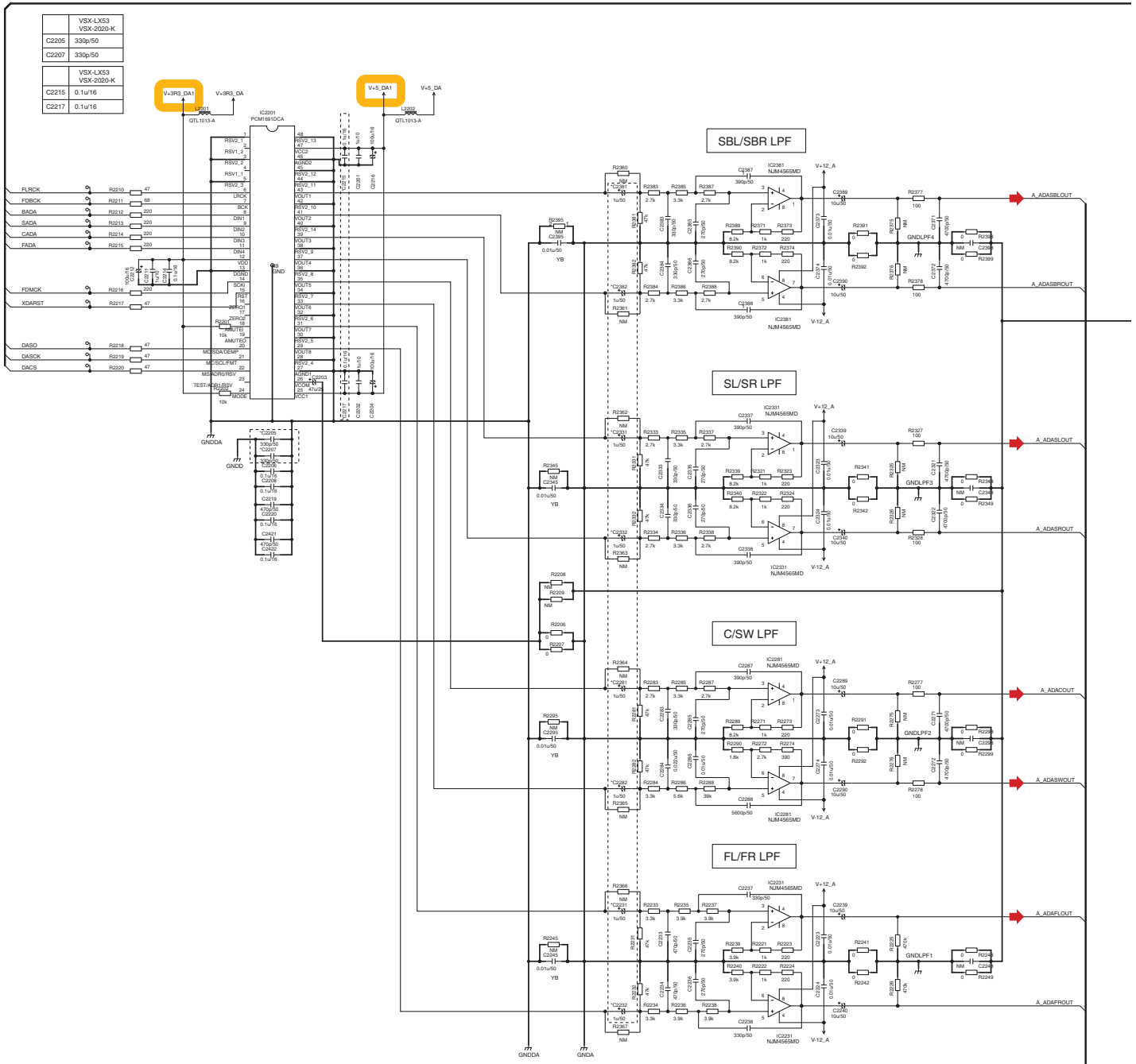
B

C

D

E

F



VSX-LX53 VSX-2020-K	
C2205	330p/50
C2207	330p/50
VSX-LX53 VSX-2020-K	
C2215	0.1u/16
C2217	0.1u/16

VSX-LX53 VSX-2020-K	
C2231	1u/50
C2232	1u/50
C2281	1u/50
C2282	1u/50
C2331	1u/50
C2332	1u/50
C2381	1u/50
C2382	1u/50

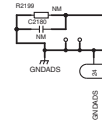
➔: Audio Signal Route

NOTE

- RESISTORS
Unit: k Ω , M Ω or Ω unless otherwise noted.
Rated Power: 1/8W or NET WORKING (C) unless otherwise noted.
Tolerance: 0.1% unless otherwise noted.
- CAPACITORS
Unit: pF or nF unless otherwise noted.
Rating: Capacity (F)/Voltage (V) unless otherwise noted.
VFB (SMD): 07V (K0705), 10V (K1005), 16V (K1605), 25V (K2505), 35V (K3505), 50V (K5005), 63V (K6305), 100V (K1005), 150V (K1505), 200V (K2005), 250V (K2505), 300V (K3005), 350V (K3505), 400V (K4005), 450V (K4505), 500V (K5005), 600V (K6005), 700V (K7005), 800V (K8005), 900V (K9005), 1000V (K10005).

The Δ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

VSX-LX53 VSX-2020-K	
C2181	100u/10
C2185	100u/10
R2138	NM
R2200	NM



1

2

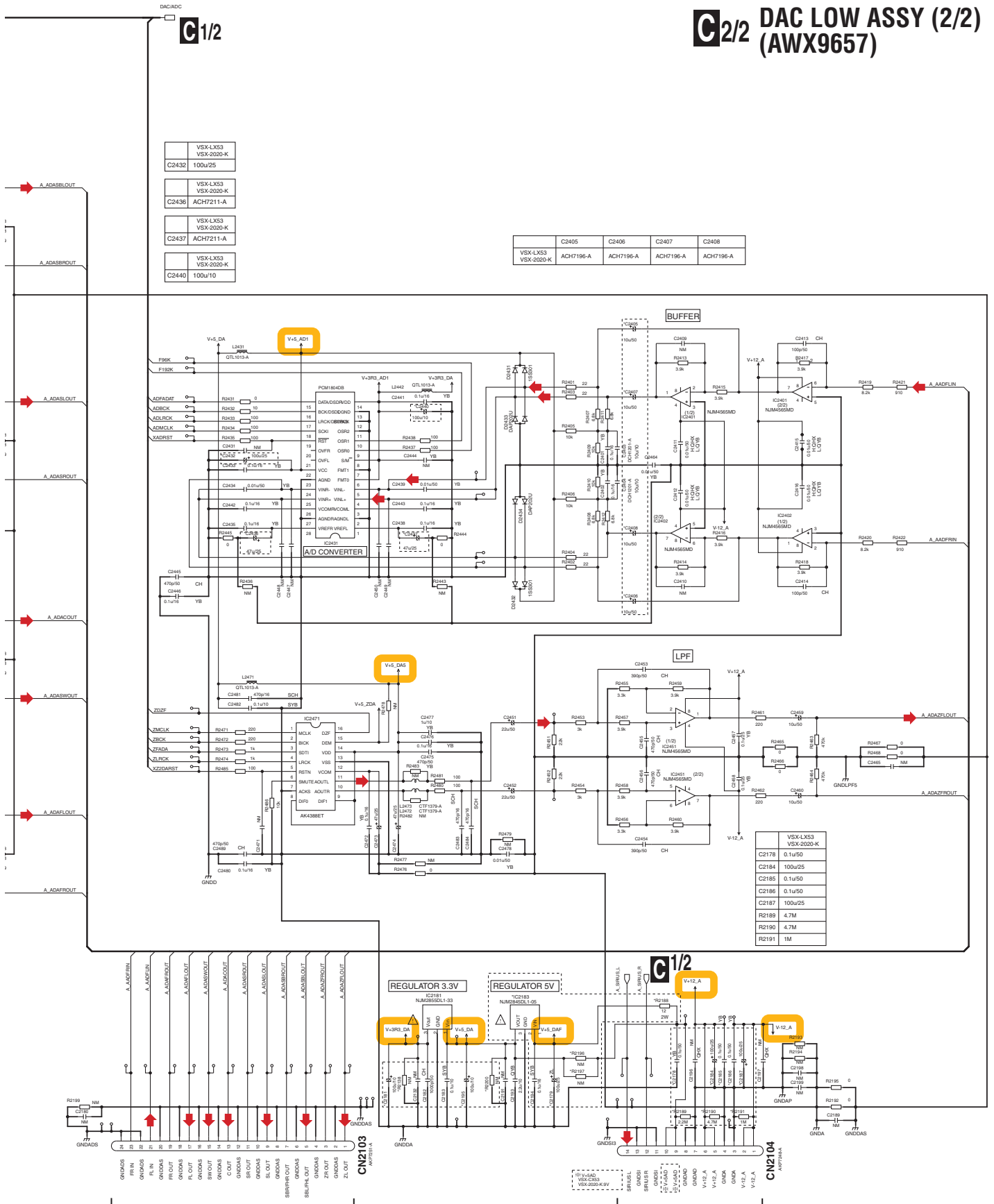
3

4

C2/2 DAC LOW ASSY (2/2) (AWX9657)

VSX-LX53	VSX-2020-K
C2432	100u/25
VSX-LX53	VSX-2020-K
C2436	ACH7211-A
VSX-LX53	VSX-2020-K
C2437	ACH7211-A
VSX-LX53	VSX-2020-K
C2440	100u/10

C2405	C2406	C2407	C2408
VSX-LX53	ACH7196-A	ACH7196-A	ACH7196-A
VSX-2020-K			



S CN3793	VSX-LX53
	VSX-2020-K
C2179	100u/25
C2194	0.1u/16
R2198	12
R2196	NM
R2197	NM
IC2183	NJM2845D1-05

S CN3791	VSX-LX53
	VSX-2020-K
C2178	0.1u/50
C2184	100u/25
C2185	0.1u/50
C2186	0.1u/50
C2187	100u/25
R2189	4.7M
R2190	4.7M
R2191	1M

VSX-LX53

C2/2

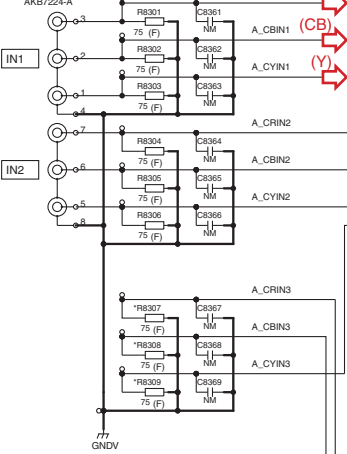
10.7 COMPONENT ASSY

COMPONENT ASSY (AWX9572)

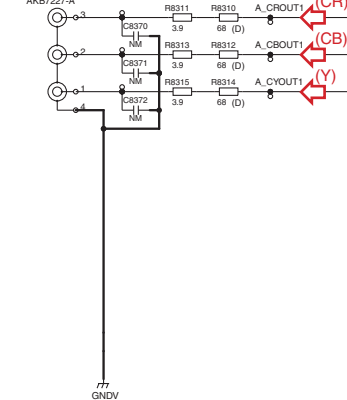
E5/10 CN1502

E5/10 CN1501

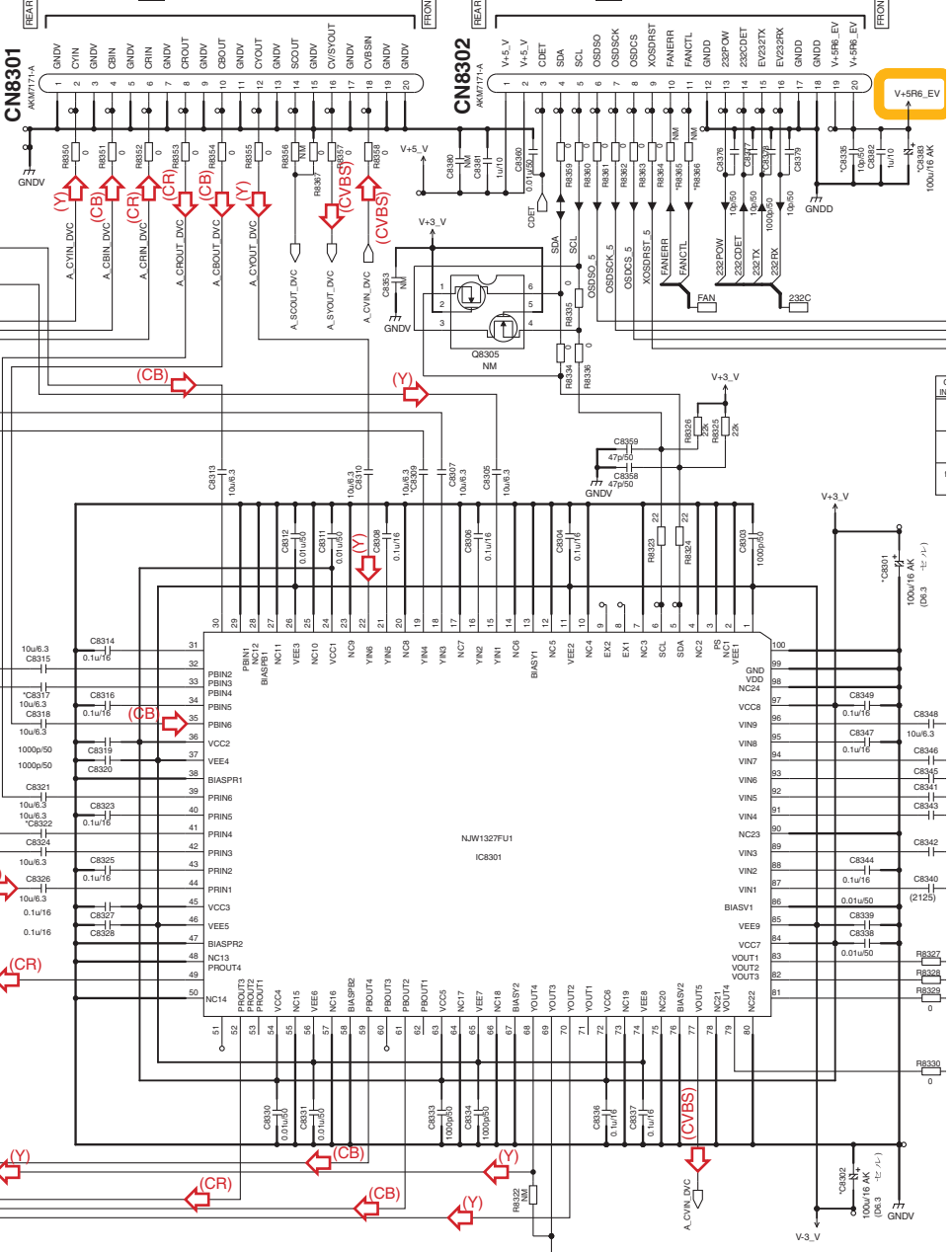
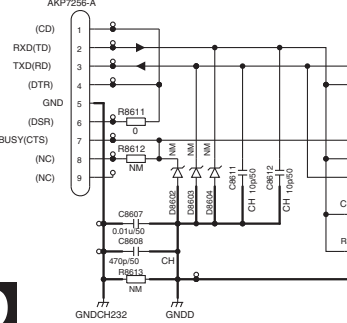
*JA8301



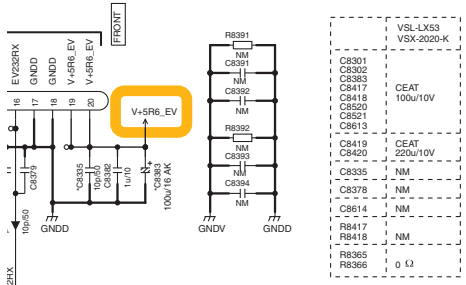
*JA8304



JA8601

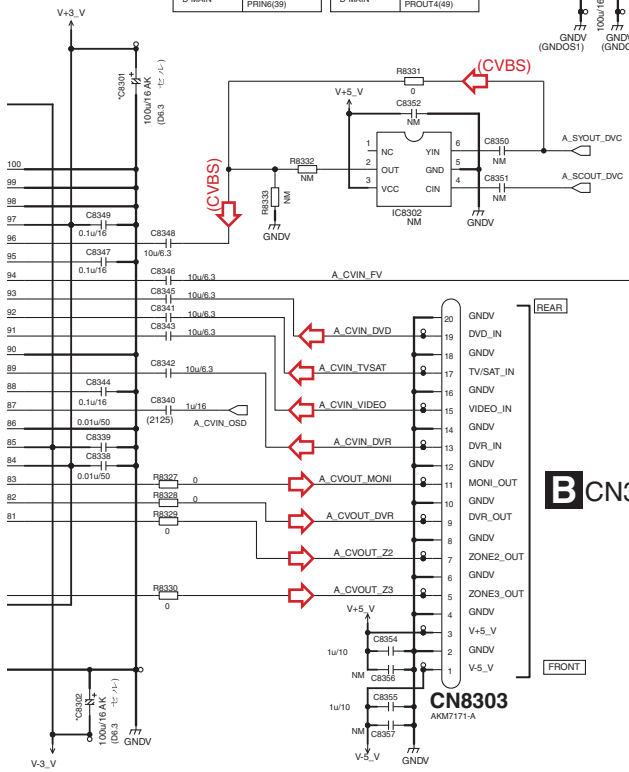
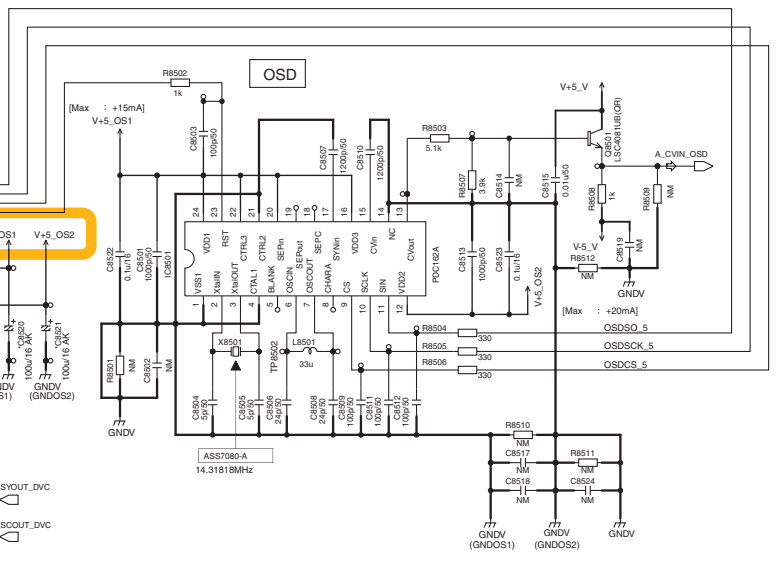
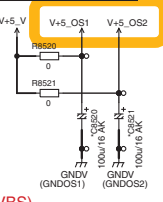


NOTE
 1. RESISTORS
 Unit: k-Ω, M-Ω or W unless otherwise noted.
 Rated Power: 1/10w unless otherwise noted.
 Tolerance: (J)5% unless otherwise noted.
 2125: RS1850
 NO MARKED: RS1105R
 2. CAPACITORS
 Unit: p-PF or u-F unless otherwise noted.
 Rating: Capacity(F)/Voltage(V) unless otherwise noted.
 AK: CEAK
 1000 or less: CCSRCH Over 10u and 2125: CKSQYB
 NO MARKED: CKSRYB
 3. NM: No Mount



C8301	CEAT	100u/10V
C8302	CEAT	100u/10V
C8303	CEAT	100u/10V
C8417	CEAT	100u/10V
C8418	CEAT	100u/10V
C8520	CEAT	100u/10V
C8521	CEAT	100u/10V
C8613	CEAT	100u/10V
C8418	CEAT	220u/10V
C8420	CEAT	220u/10V
C8335	NM	
C8378	NM	
C8614	NM	
R8417	NM	
R8418	NM	
R8365	NM	
R8366	0 Ω	

COMPONENT	NJW1327FU1	COMPONENT	NJW1327FU1
INPUT TERMINAL	CORRESPOND TERMINAL	OUTPUT TERMINAL	CORRESPOND TERMINAL
IN1	YIN1 (15) PBIN1(30) PBIN1(44)	YOUT2 (70) PBOUT2(81) PBOUT2(85)	
IN2	YIN3 (18) PBIN3(34) PBIN3(42)	YOUT3 (69) (YOUT3-YOUT4)	
from D-MAIN	YIN6 (22) PBIN6(35) PBIN6(39)	YOUT4 (68) PBOUT4(69) PBOUT4(69)	



B CN3601

FRONT

REAR

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

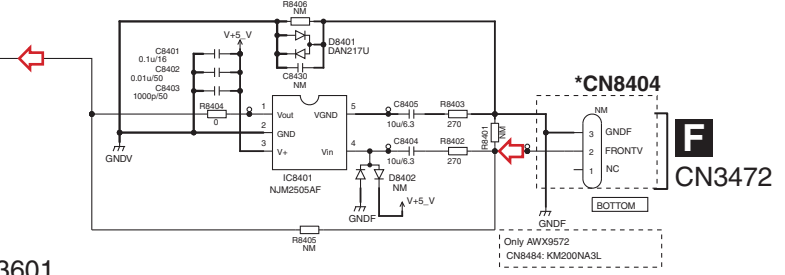
VIDEO SIGNAL ROUTE

COMPOSITE INPUT TERMINAL	NJW1327FU1	COMPOSITE OUTPUT TERMINAL	NJW1327FU1
OSD IC	VIN1 (87)	YOUT1 (67)	
DVR_IN	VIN2 (89)	YOUT2 (68)	
VIDEO_IN	VIN4 (91)	YOUT3 (69)	
TV/SAT_IN	VIN5 (92)	YOUT4 (70)	
DVD_IN	VIN6 (93)	YOUT5 (71)	
FrontV	VIN7 (94)	YOUT6 (72)	
from D-MAIN	VIN8 (96)	YOUT7 (73)	

- (CVBS) : Video Signal Route
- (CB) : Video Signal Route
- (CR) : Video Signal Route
- (V) : Video Signal Route
- (V) : Video Signal Route

less otherwise noted,
s otherwise noted,
otherwise noted.

otherwise noted,
ge(V) unless otherwise noted.
Over 10u and 2125 : CKSQYB



F CN3472



FRONT

REAR

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

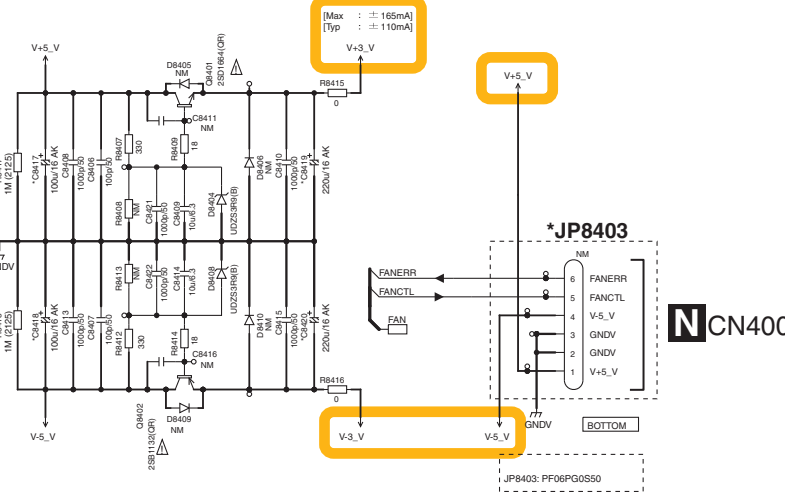
VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

VIDEO SIGNAL ROUTE

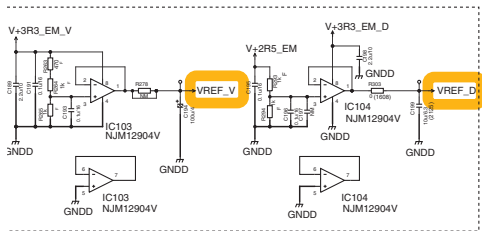


N CN4002

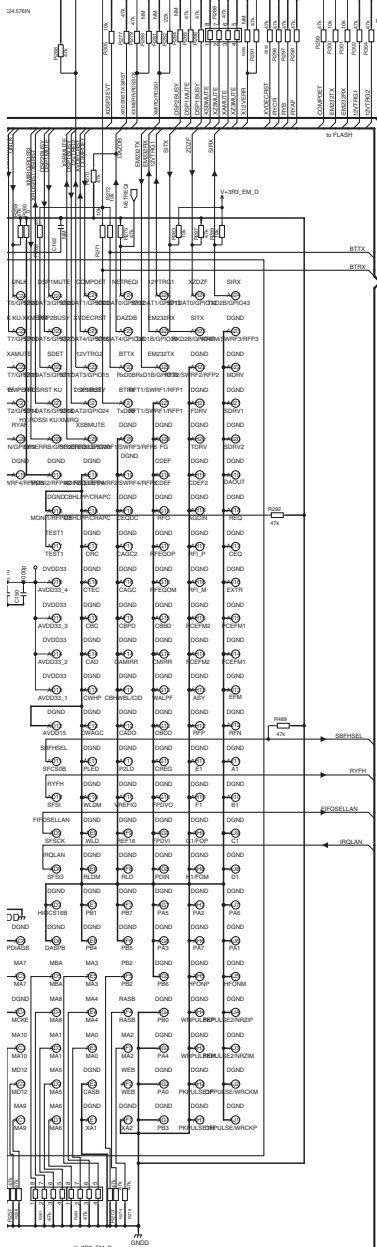


E-b 1/10

E 1/10 DIGITAL MAIN ASSY (1/10) (AWX9719)

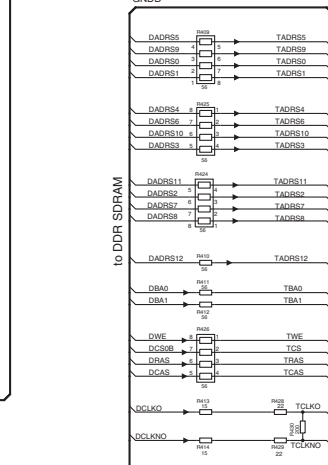
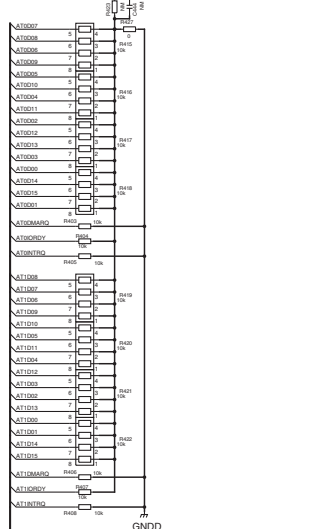


10

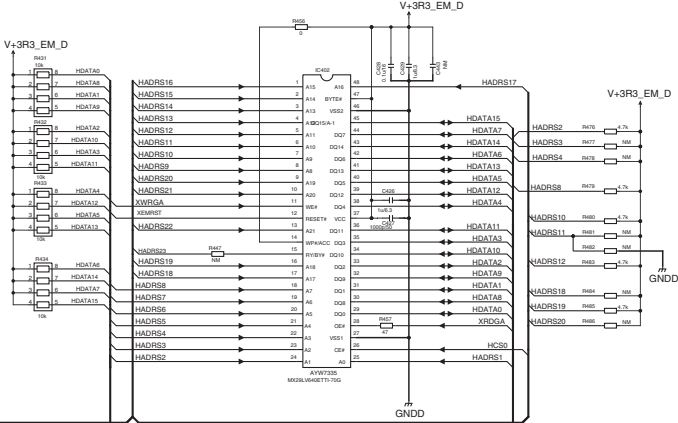


E 5/10

V+3R3_EM_D

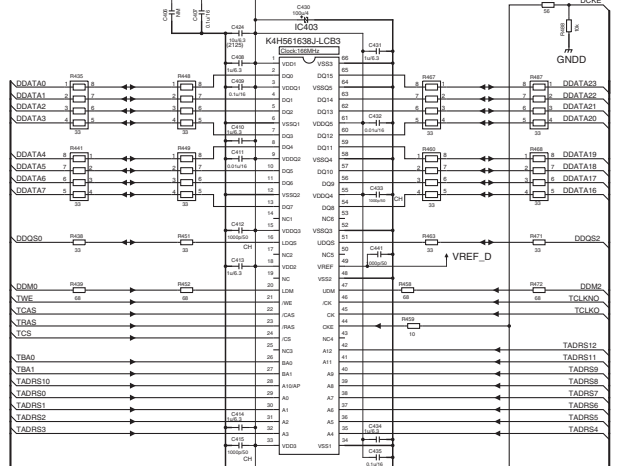


Flash ROM

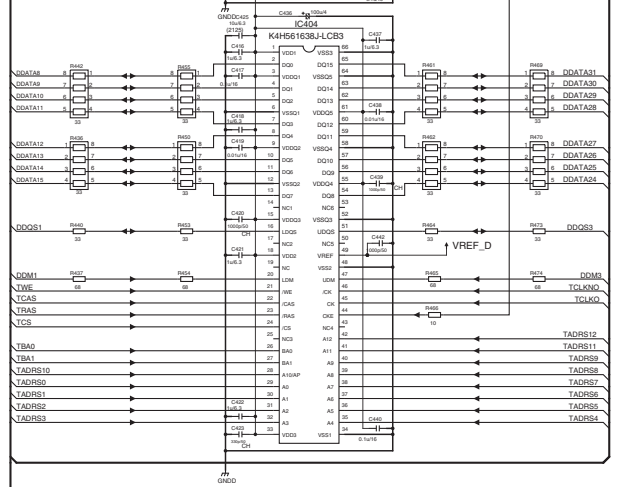


V+2R5_EM

DDR



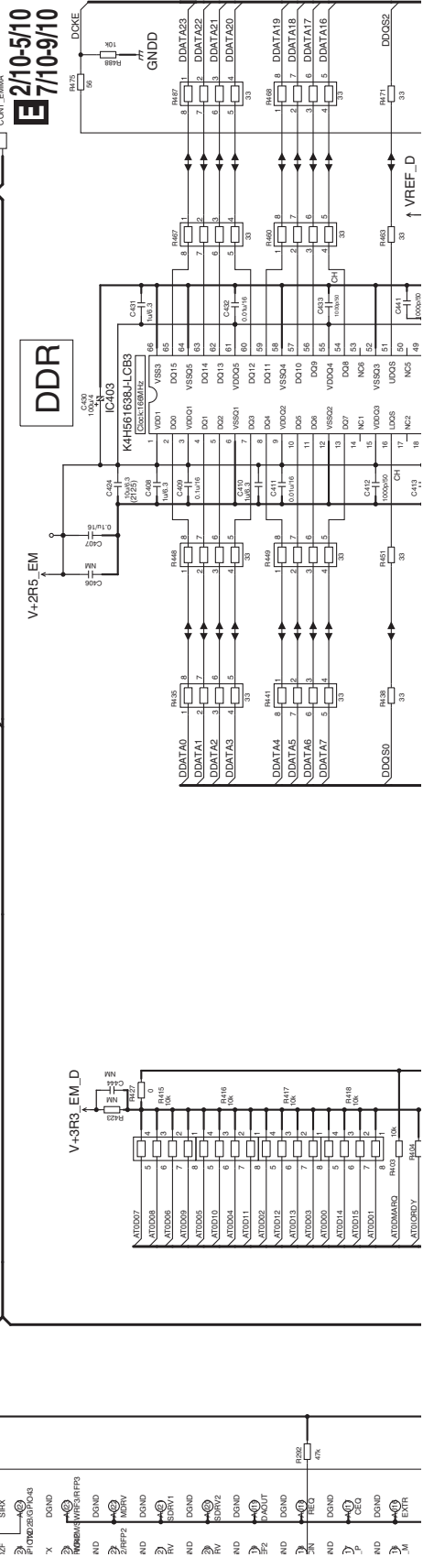
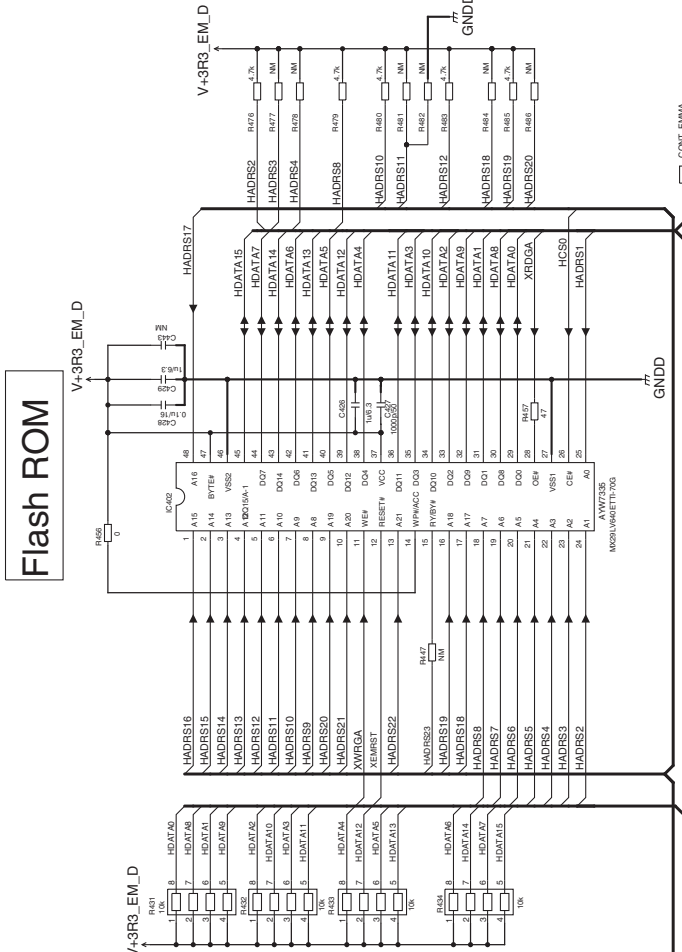
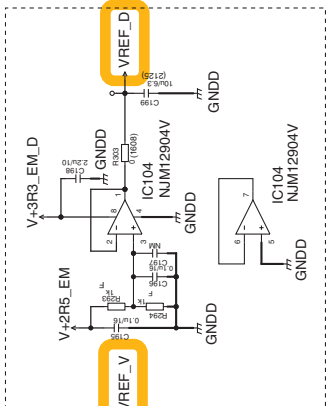
E 2/10-5/10 7/10-9/10



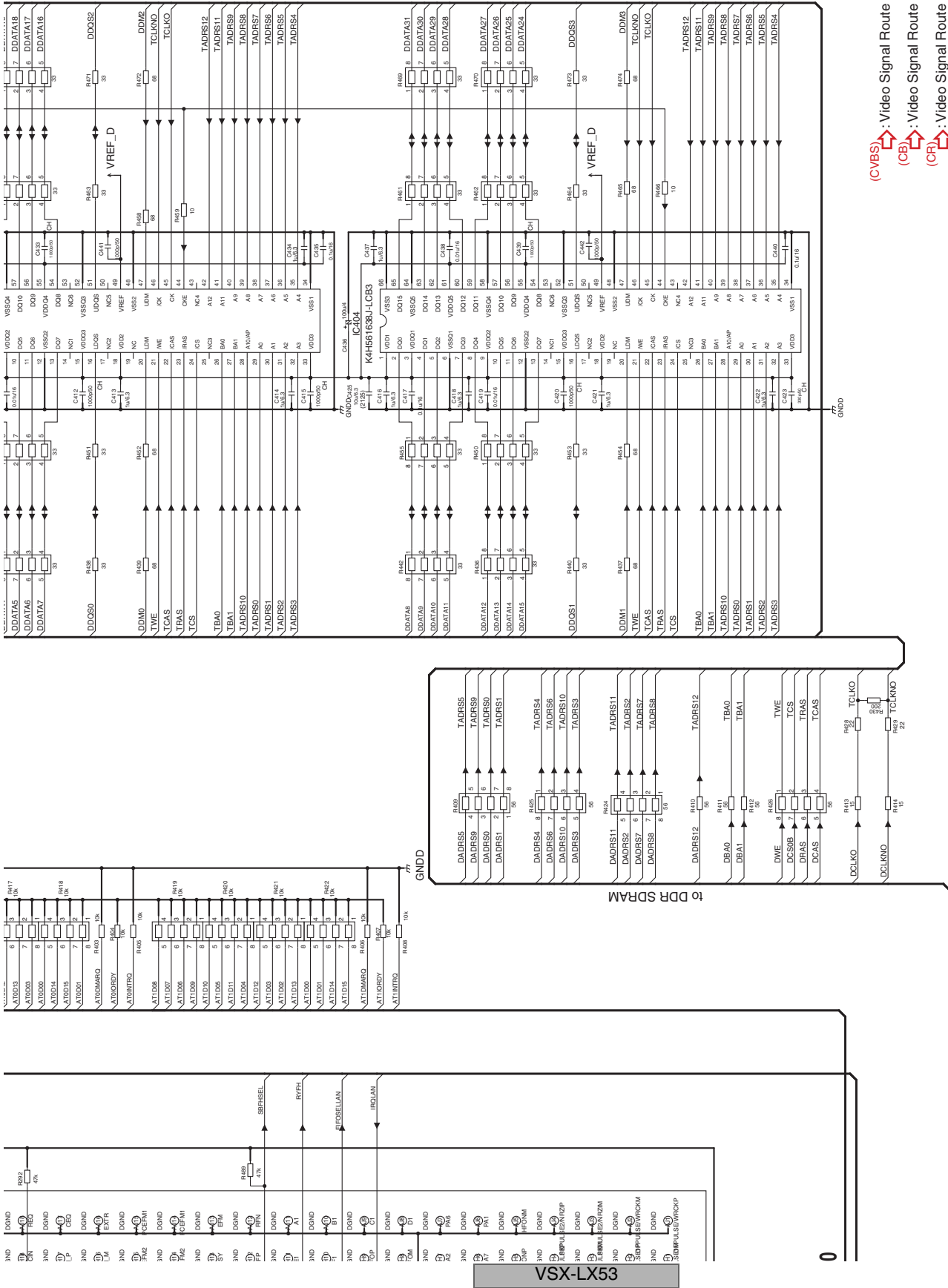
- (CVBS) : Video Signal Route
- (CB) : Video Signal Route
- (CP) : Video Signal Route
- (V) : Video Signal Route

1 2 3 4

1 2 3 4

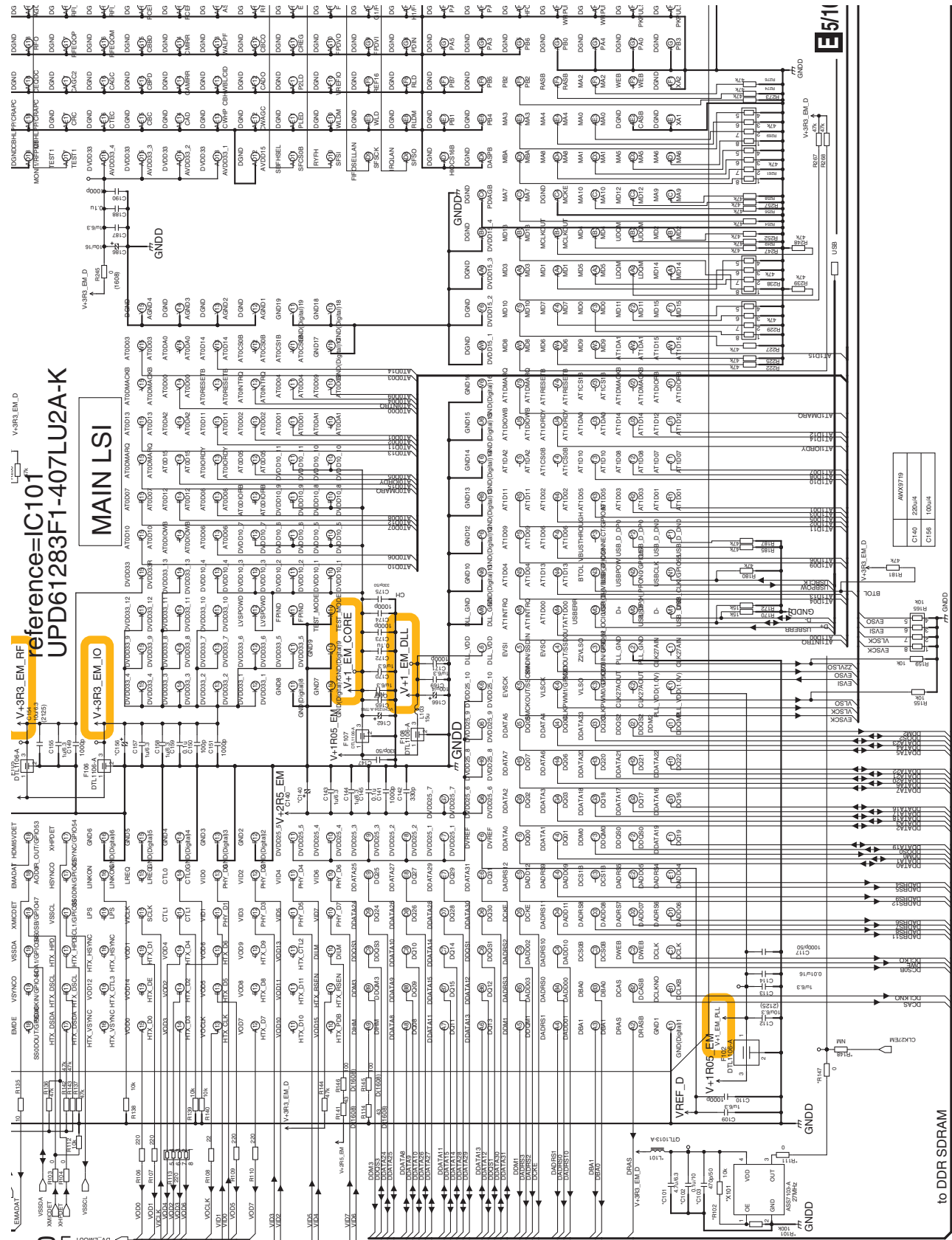


A B C D E F



(CVBS) Video Signal Route
 (CB) Video Signal Route
 (CR) Video Signal Route
 (V) Video Signal Route

A-a A-b



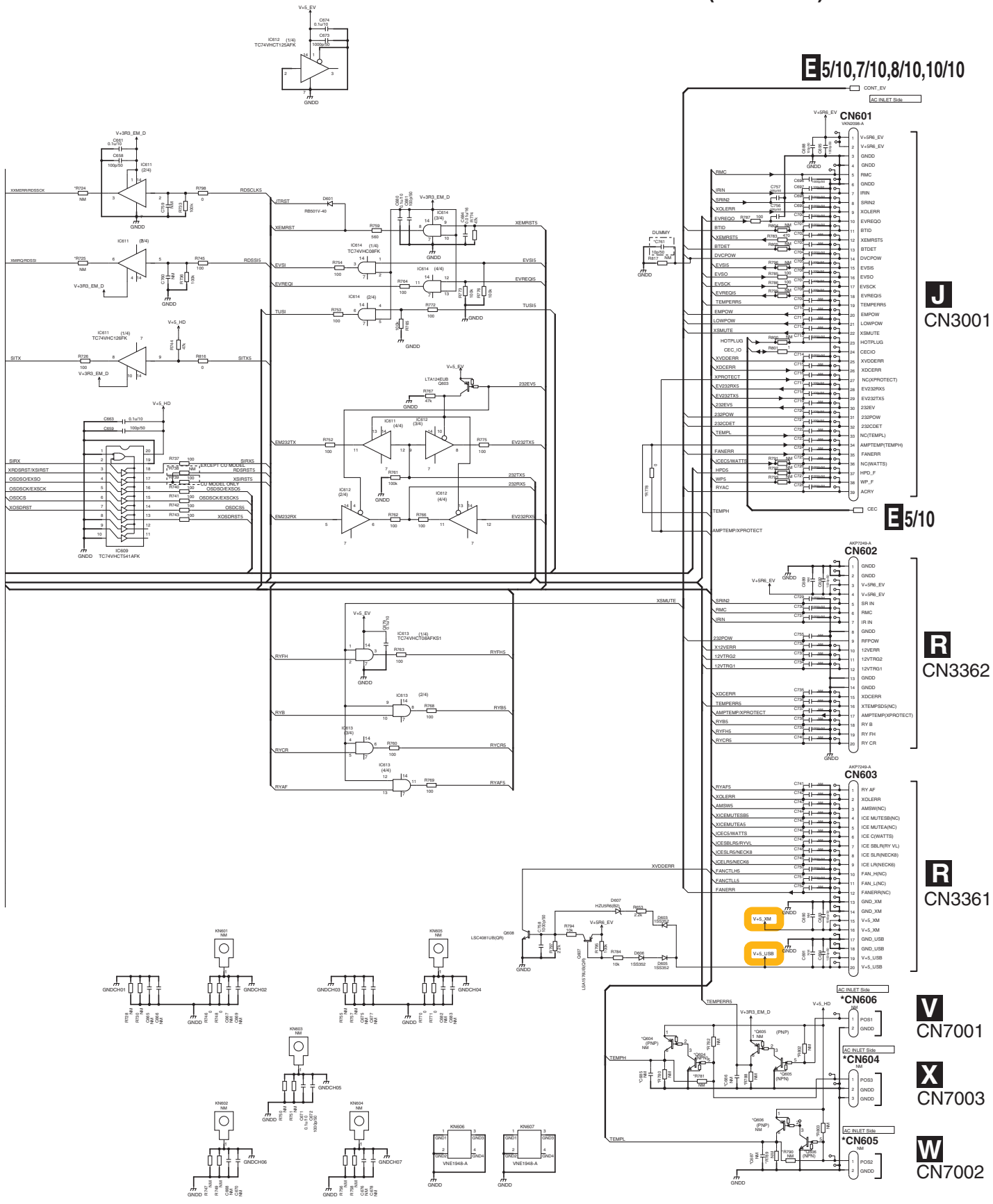
E4/10

A-a A-b

A B C D E F

E2/10 DIGITAL MAIN ASSY (2/10) (AWX9719)

E5/10,7/10,8/10,10/10



J CN3001

E5/10

R CN3362

R CN3361

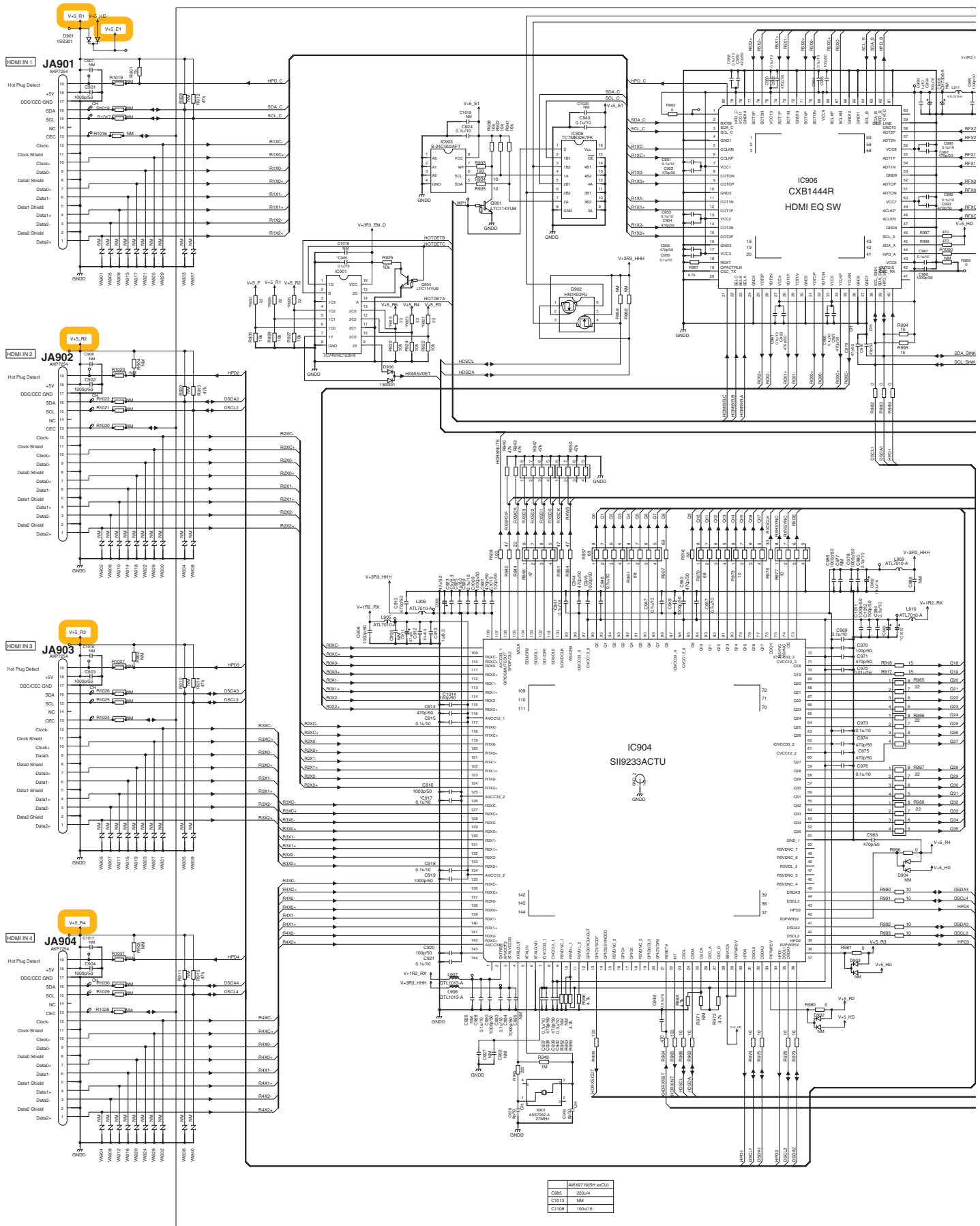
V CN7001

X CN7003

W CN7002

10.10 DIGITAL MAIN ASSY(3/10)

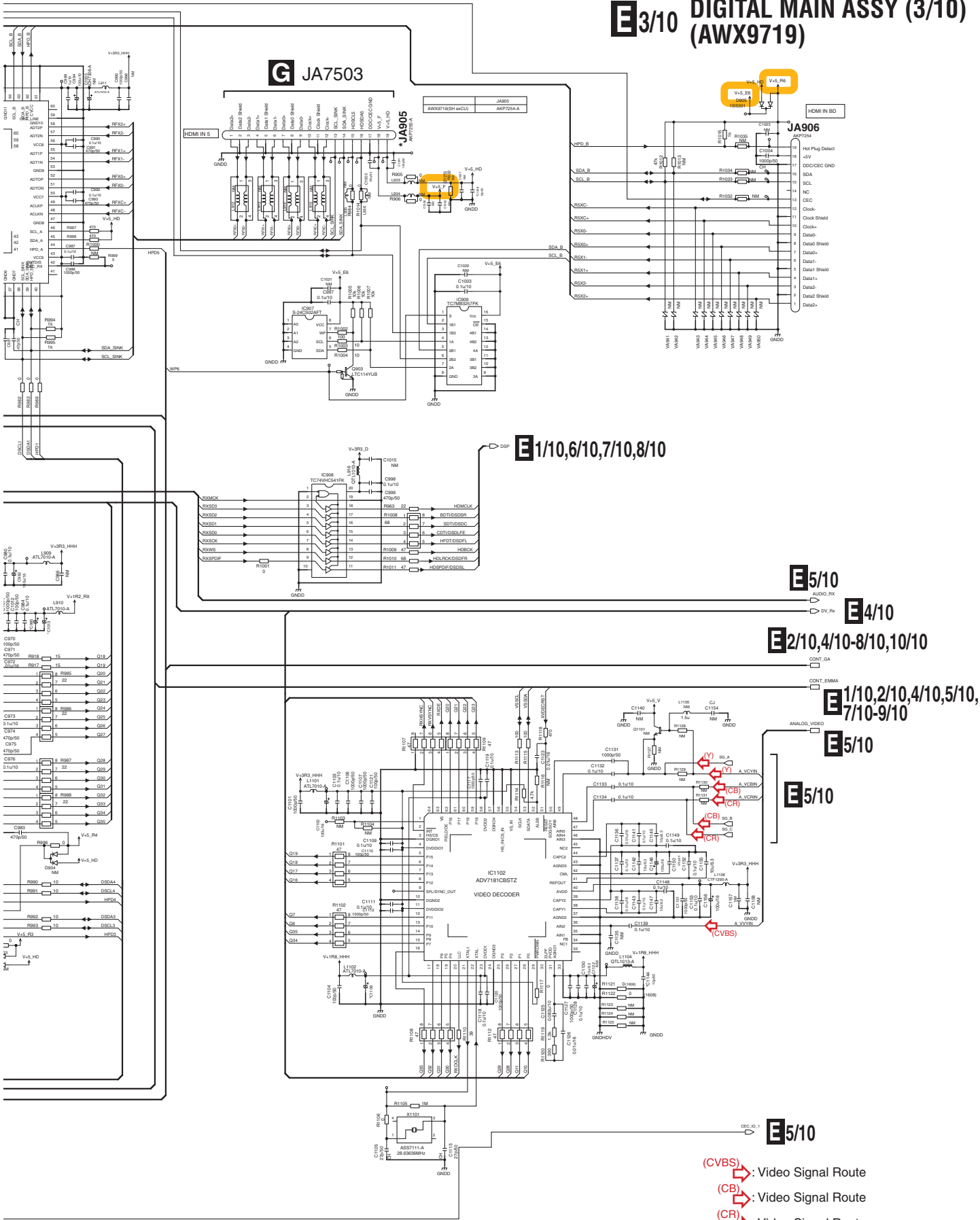
A
B
C
D
E
F



AWX9798SH	4x10
C85	220uF
C1013	10M
C1108	100k

E3/10 DIGITAL MAIN ASSY (3/10) (AWX9719)

A
B
C
D
E
F



VSX-LX53

E3/10

10.11 DIGITAL MAIN ASSY(4/10)

1

2

3

4

A E2/10,3/10,5/10-8/10,10/10

E3/10

B

E1/10

C

E1/10

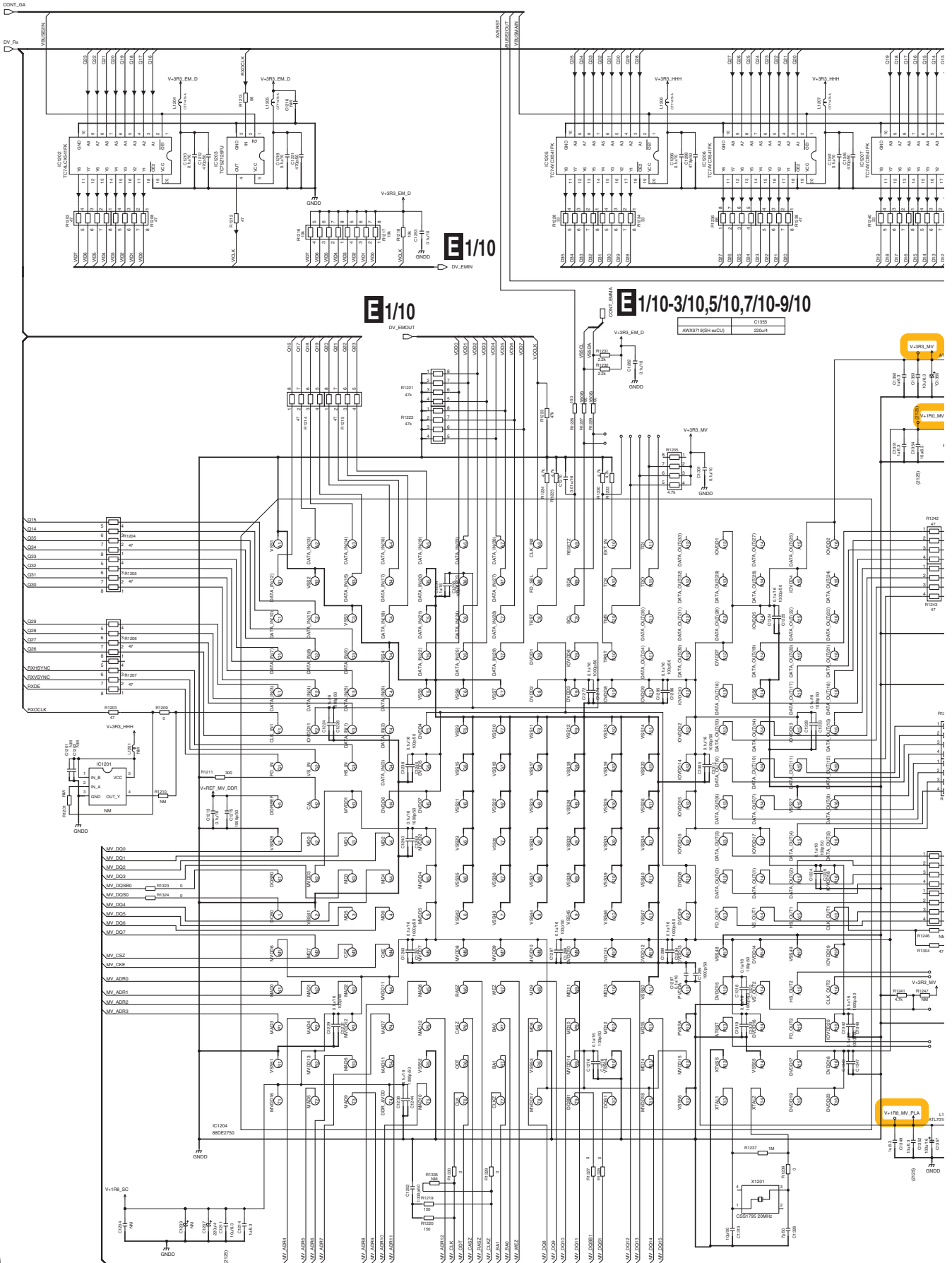
E1/10-3/10,5/10,7/10-9/10

D

E

F

E4/10



1

2

3

4

E4/10 DIGITAL MAIN ASSY (4/10) (AWX9719)

A

B

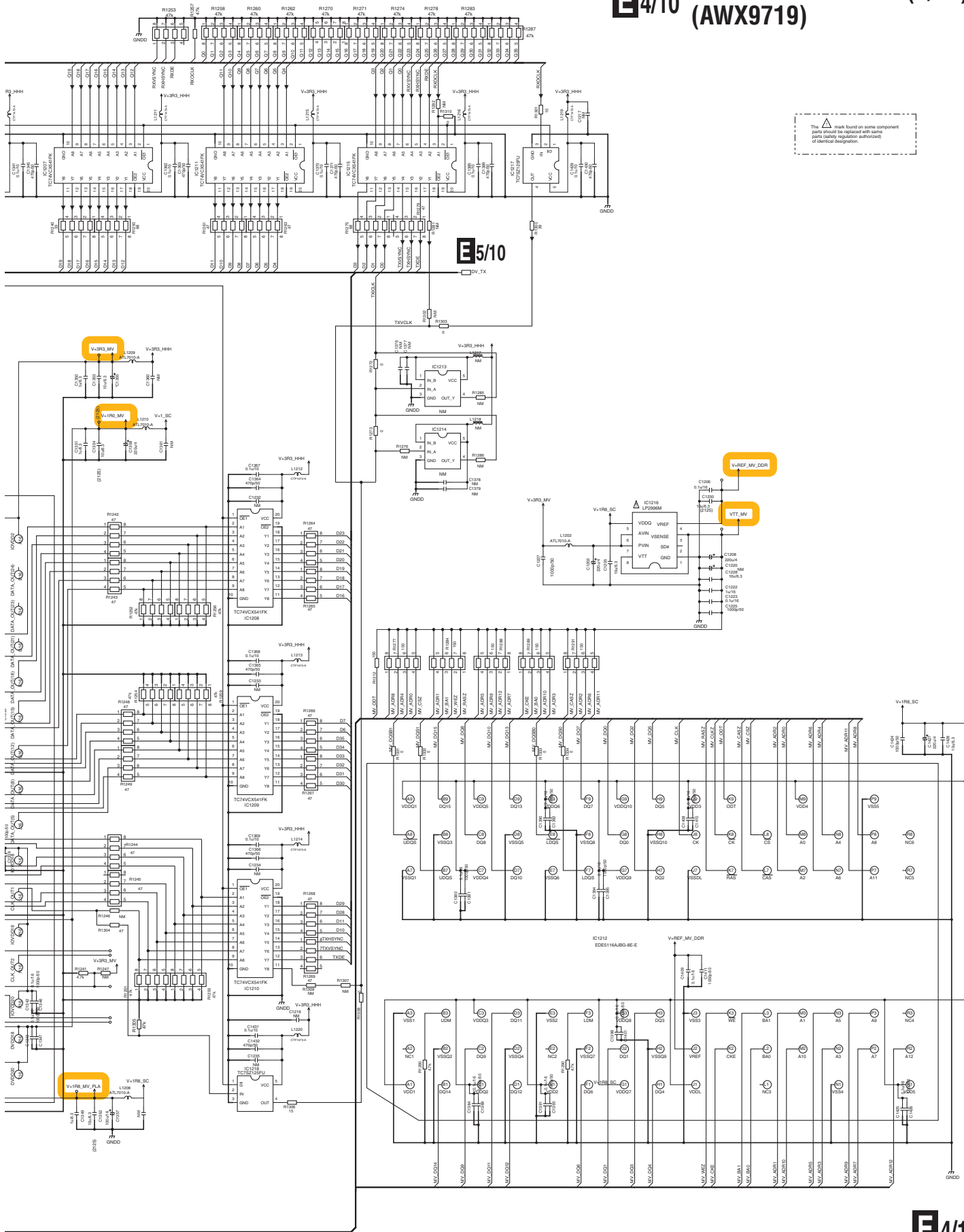
C

D

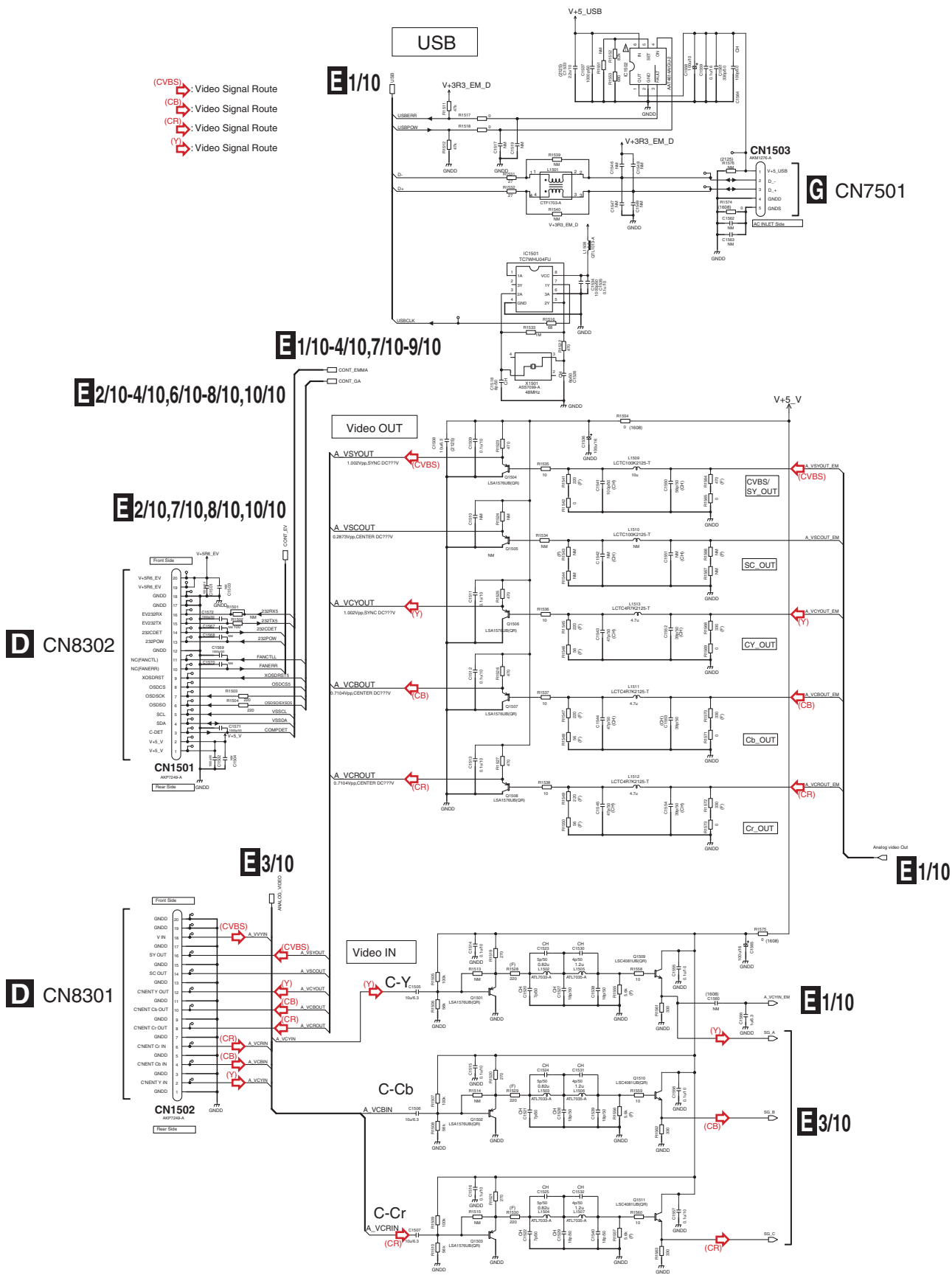
E

F

The Δ mark found on some component parts should be replaced with same parts marking notation (authorized) of identical designation.



10.12 DIGITAL MAIN ASSY(5/10)



E5/10 DIGITAL MAIN ASSY (5/10) (AWX9719)

A

B

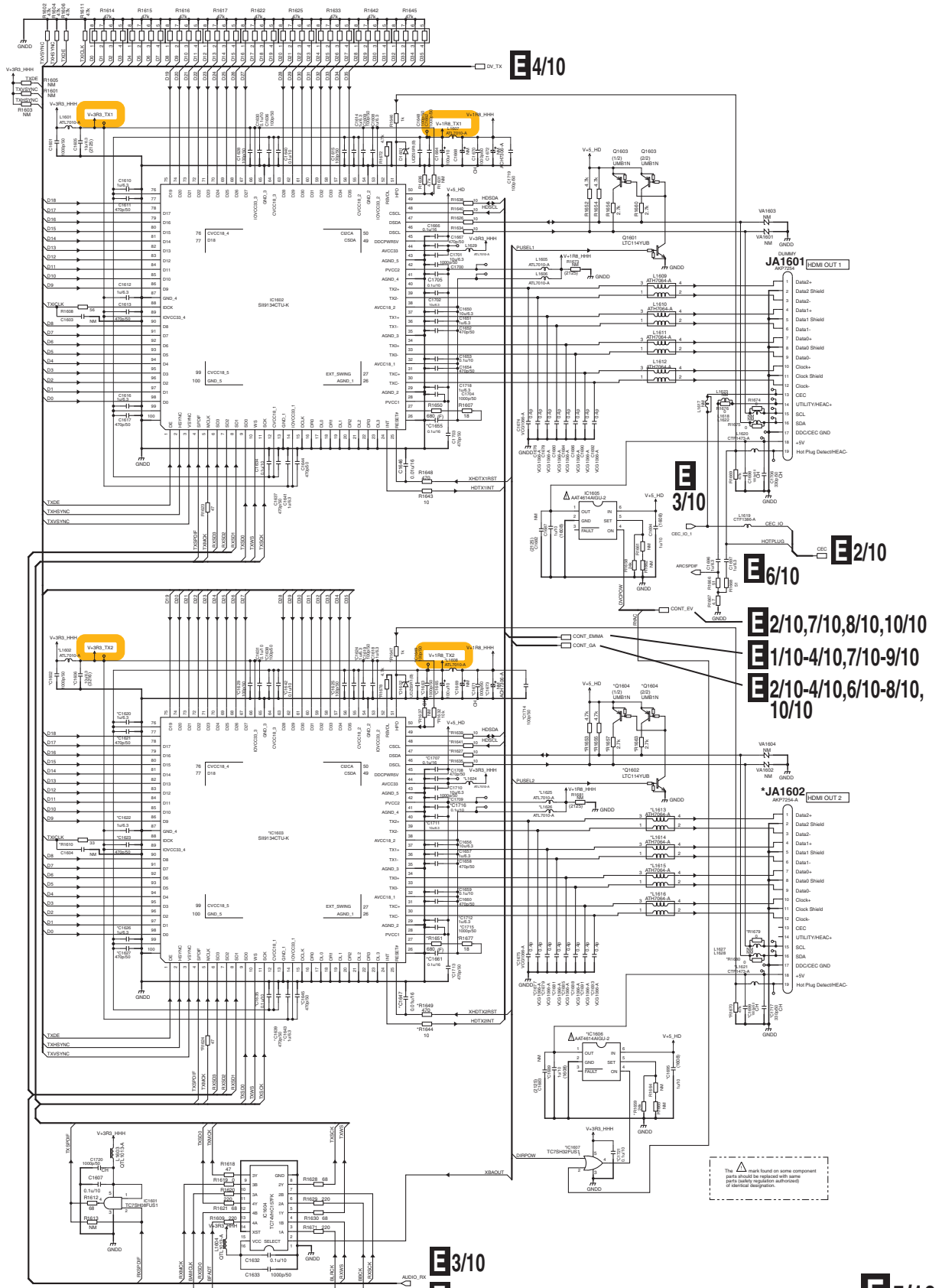
C

D

E

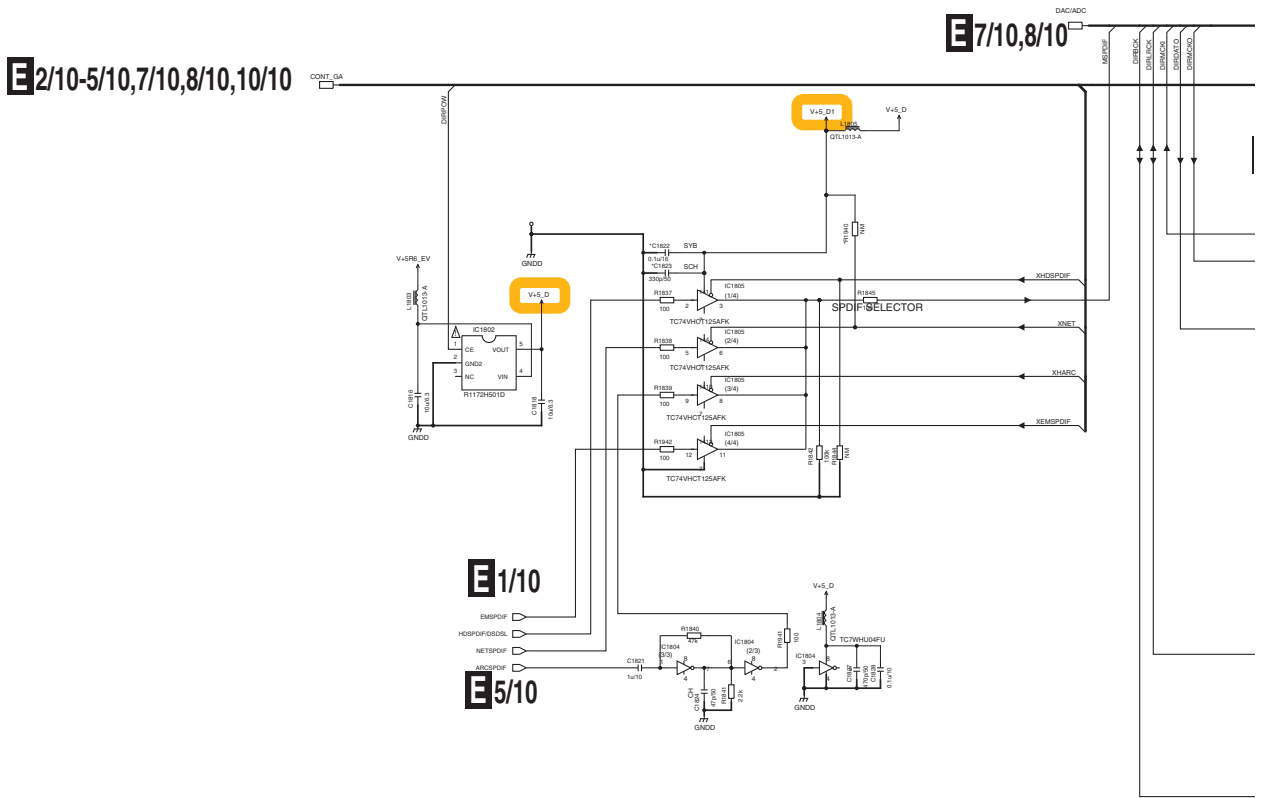
F


N7501



VSX-LX53

10.13 DIGITAL MAIN ASSY(6/10)



The  mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

- R1848 100K
- R1849 100K
- R1850 100K
- R1851 100K
- R1852 100K
- R1853 100K
- R1854 100K
- R1855 100K

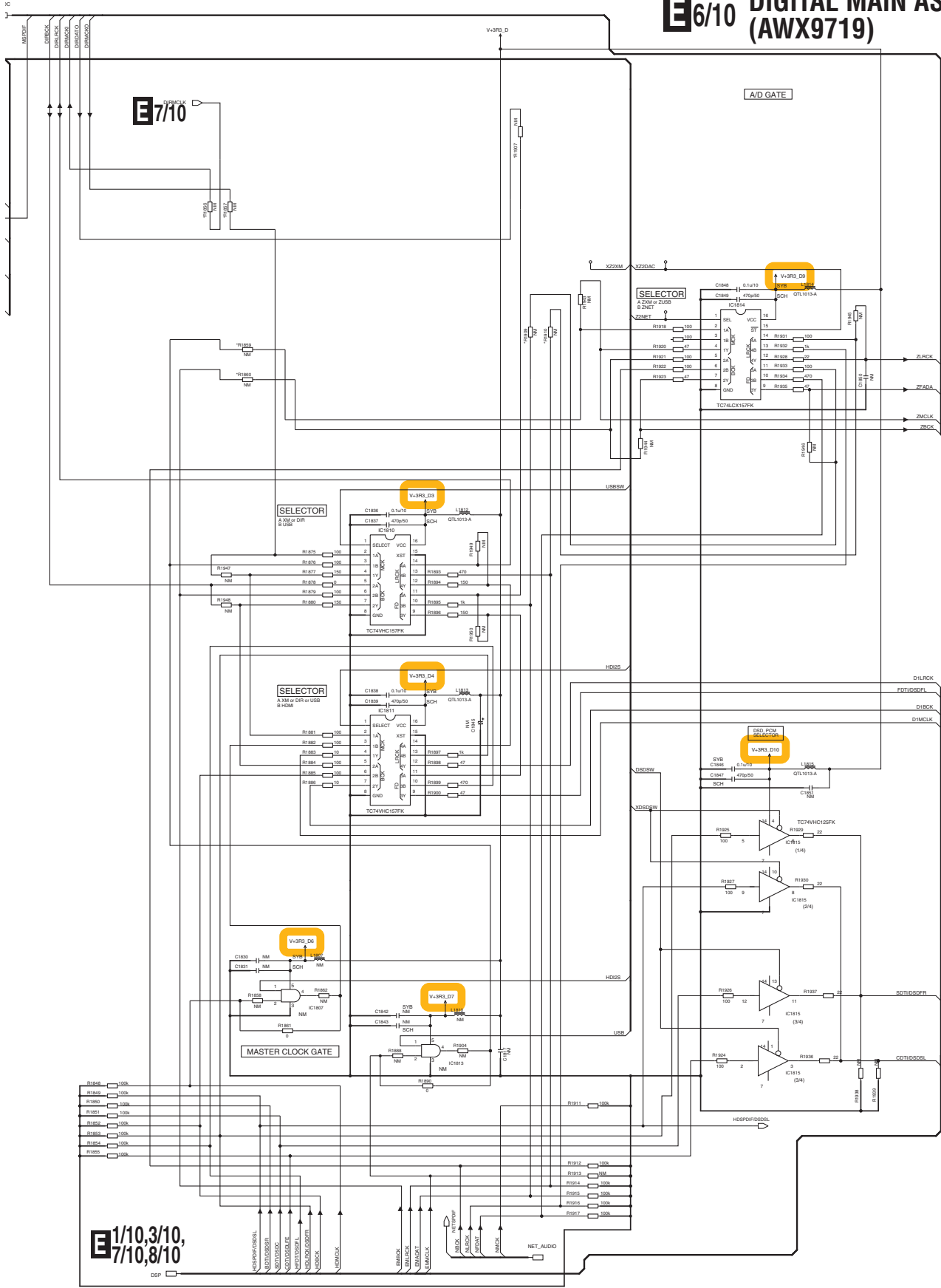
E1/7

HDMI PCM DATA	
*RST	*R4FR
*CST	*CSW
*SDI	*SLSR
*BDI	*SLSBR

E6/10

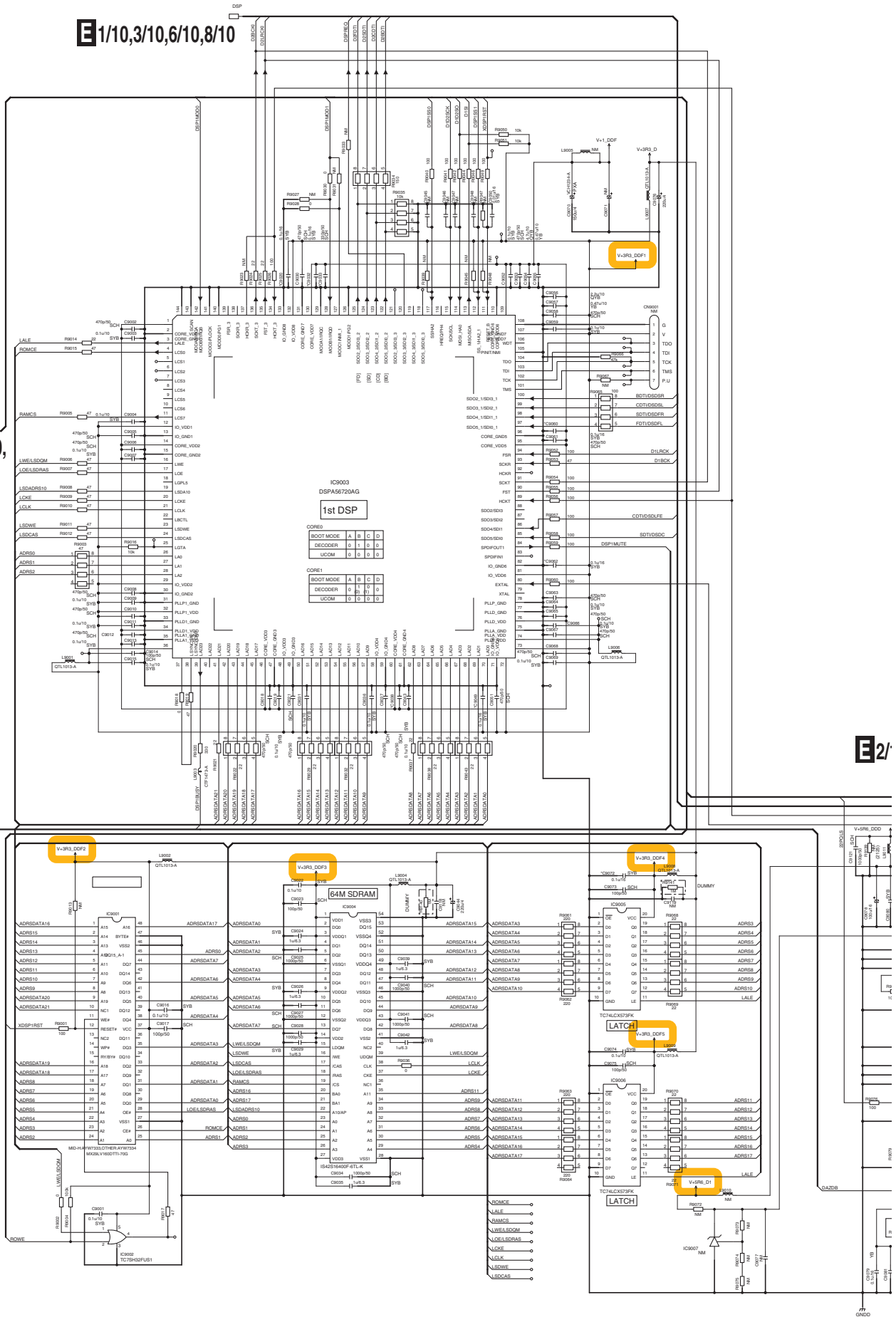
E6/10 DIGITAL MAIN ASSY (6/10) (AWX9719)

A
B
C
D
E
F



HDMI PCM DATA		HDMI DSD DATA	
HD01	FL/FR	HD01	FL
HD02	CL/CR	HD02	FR
HD03	CSW	HD03	FS
HD04	SUSP	HD04	C
HD05	SBT	HD05	SW
HD06	SBCLR	HD06	FS
HD07		HD07	SP

10.14 DIGITAL MAIN ASSY(7/10)



E 1/10,3/10,6/10,8/10

E 2/10-6/10,8/10, 10/10

E 1/10-5/10,8/10, 9/10

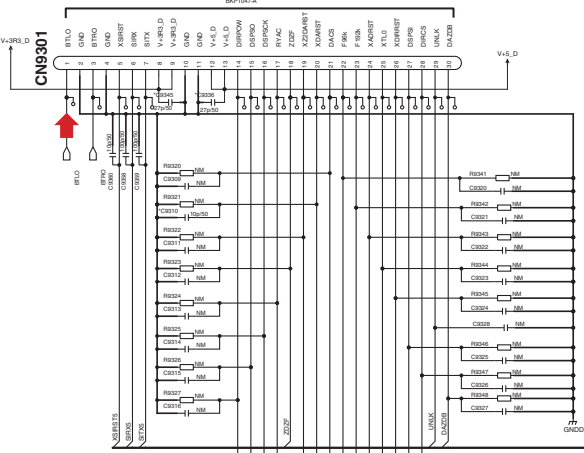
E 2/

E 7/10

VSX-LX53

U CN3784

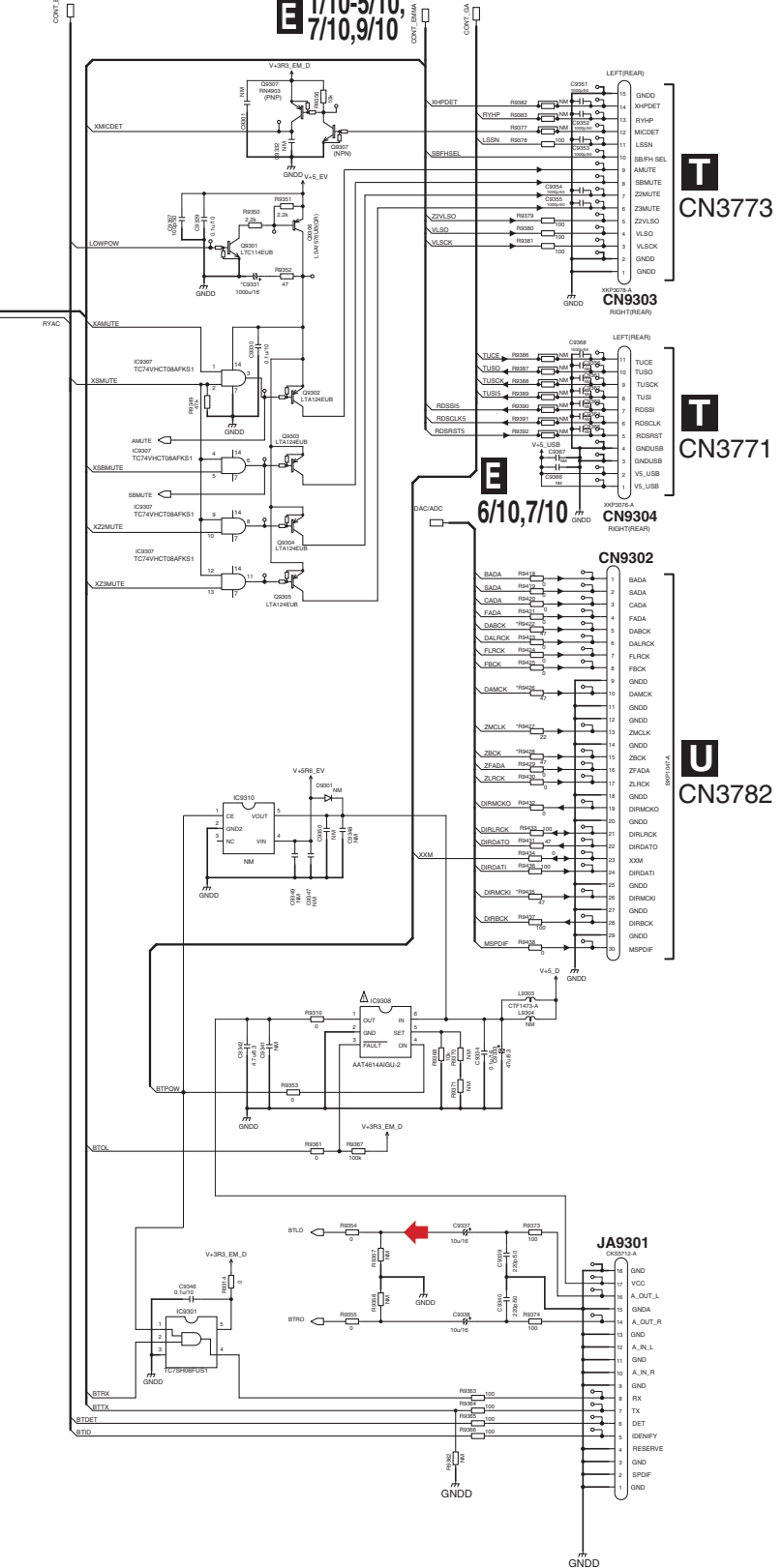
E 8/10 DIGITAL MAIN ASSY (8/10) (AWX9719)



E 2/10,5/10,7/10,10/10

E 1/10-5/10, 7/10,9/10

E 2/10-7/10,10/10



T CN3773

T CN3771

U CN3782

➔ : Audio Signal Route

10.16 DIGITAL MAIN ASSY(9/10)

1

2

3

4

A

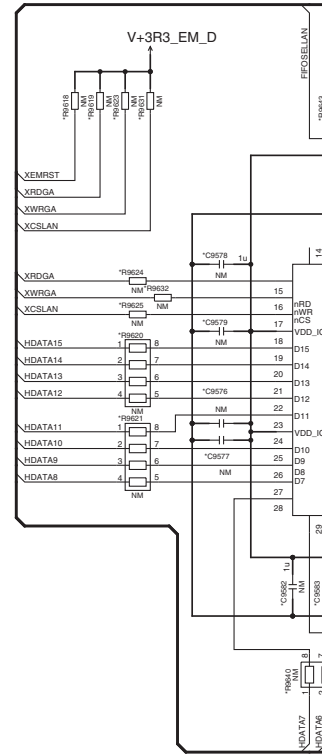
B

C

D

E

F



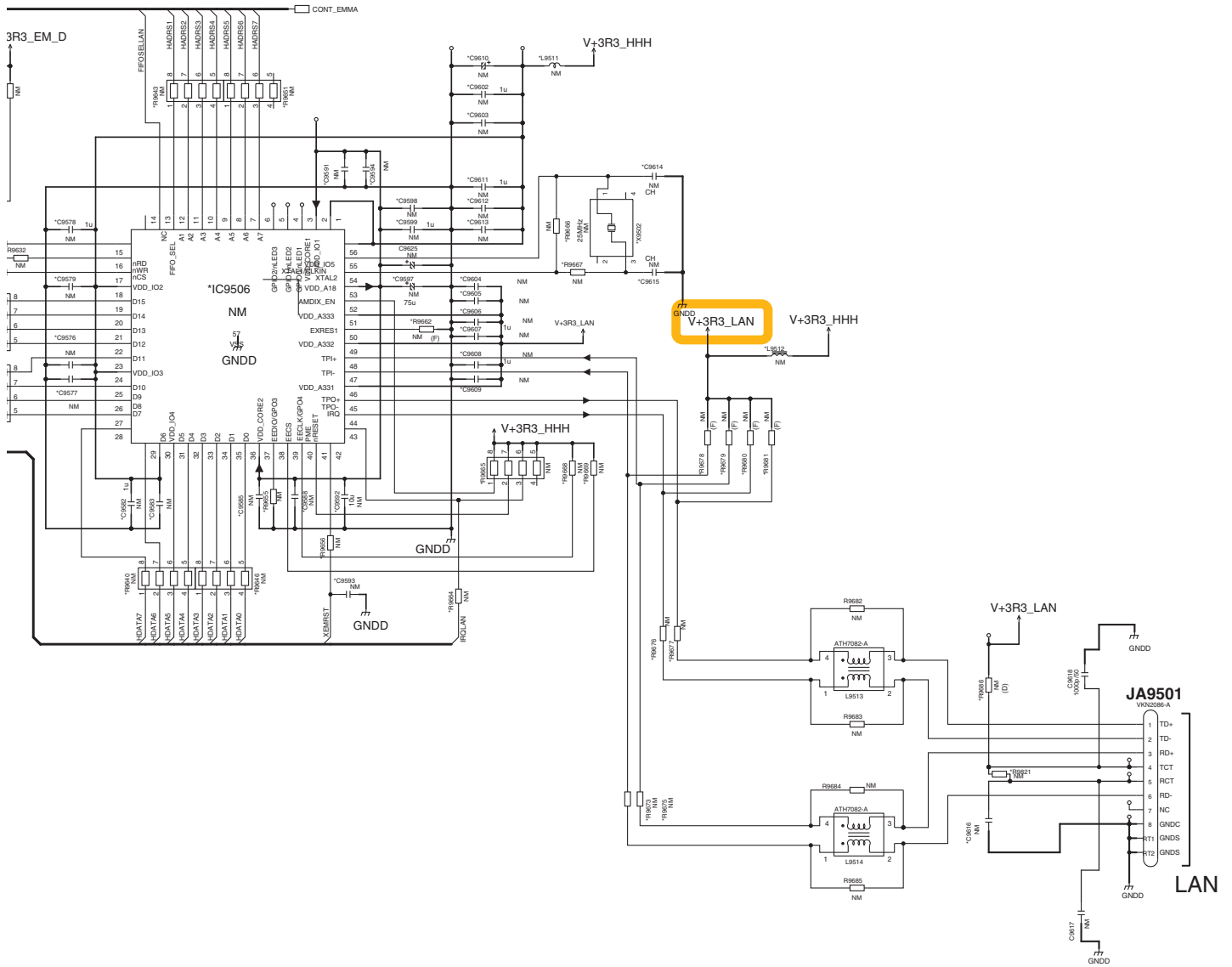
1

2

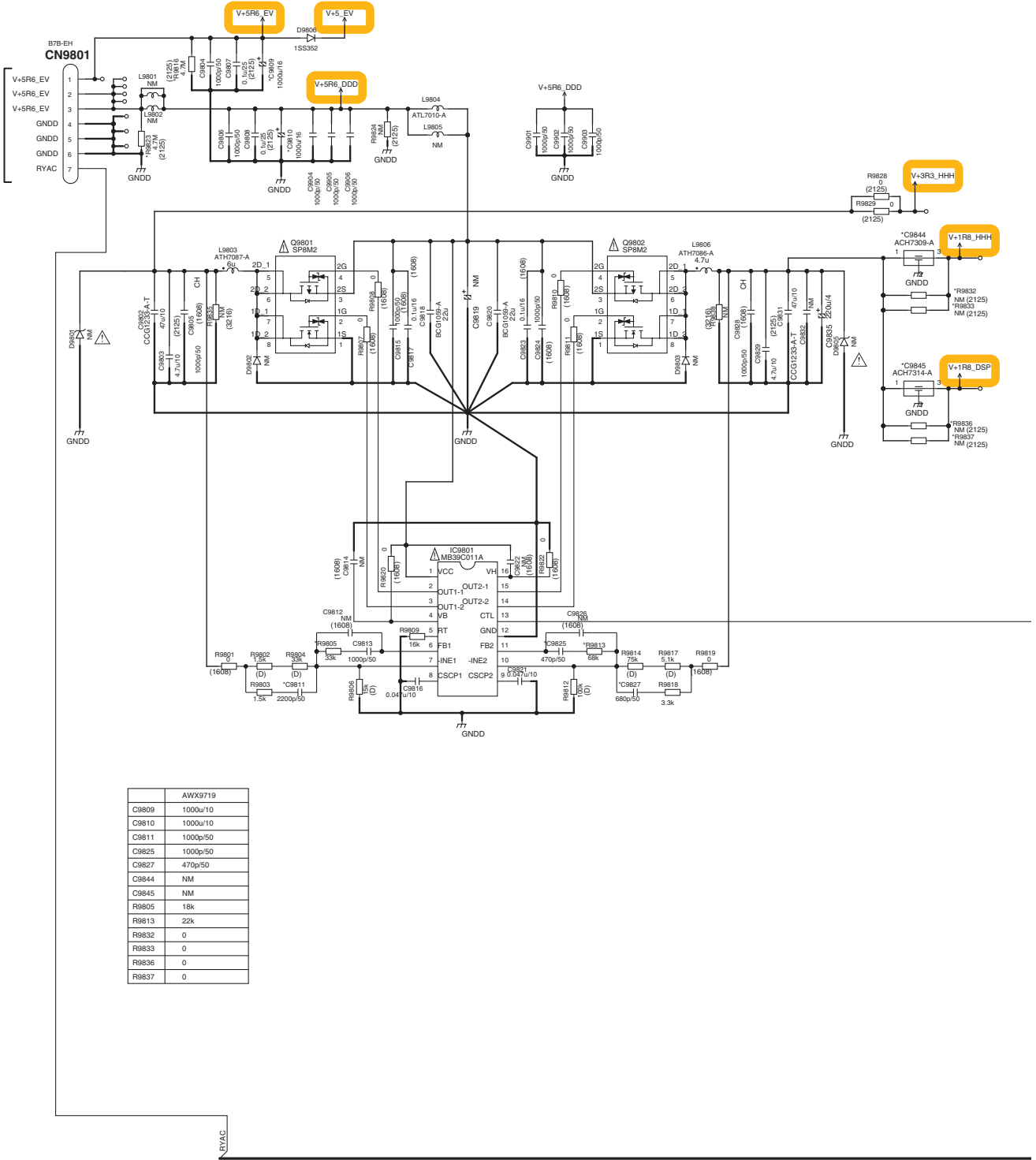
3

4

E1/10-5/10,7/10,8/10



10.17 DIGITAL MAIN ASSY(10/10)



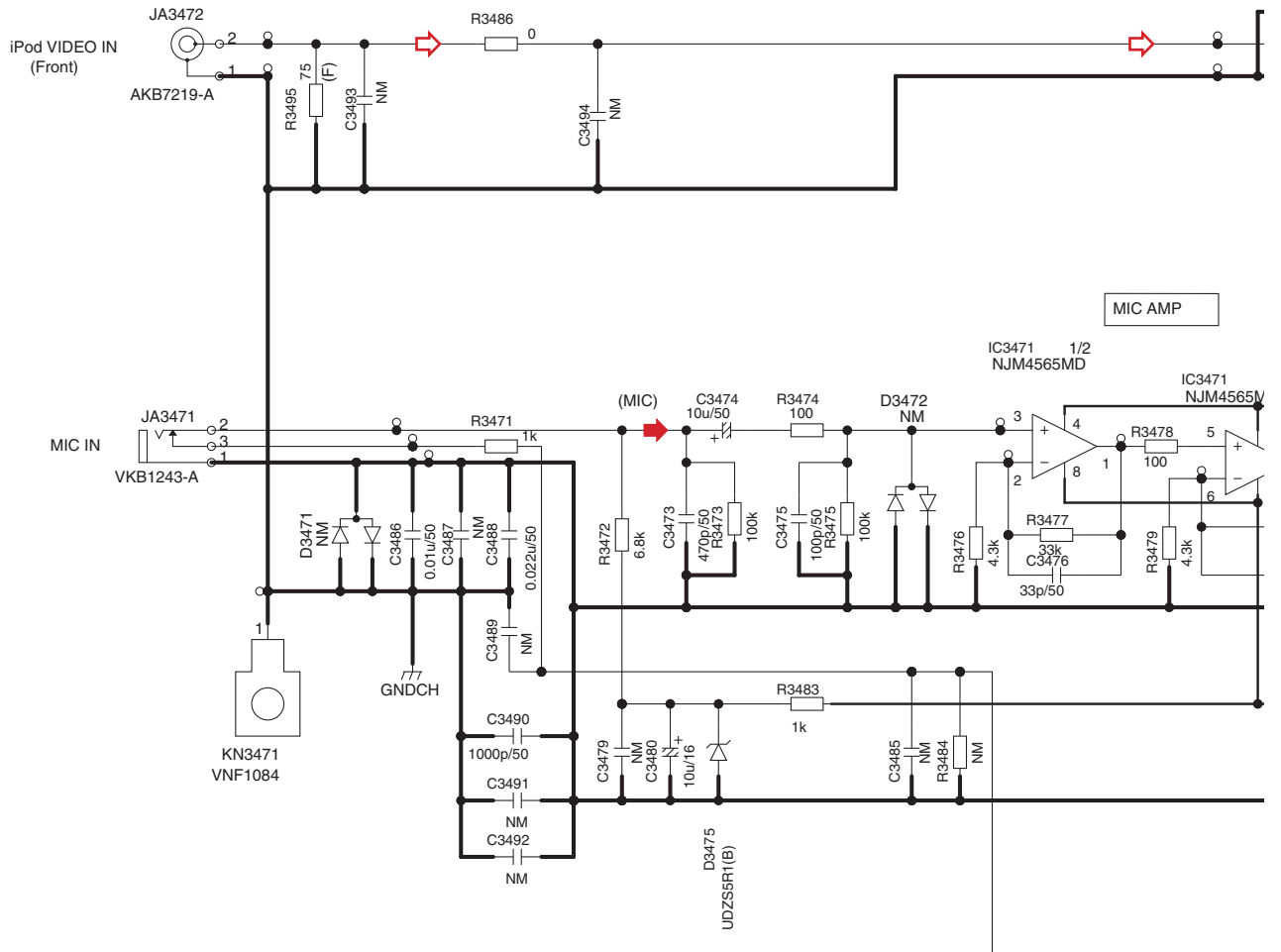
Part No.	Designation	Value
C9809	AWX9719	1000u/10
C9810		1000u/10
C9811		1000p/50
C9825		1000p/50
C9827		470p/50
C9844		NM
C9845		NM
R9805		18k
R9813		22k
R9832		0
R9833		0
R9836		0
R9837		0

AC INLET Side



The mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

10.18 FRONT MIC&VIDEO ASSY



F FRONT MIC & VIDEO ASSY (AWX9593)

A

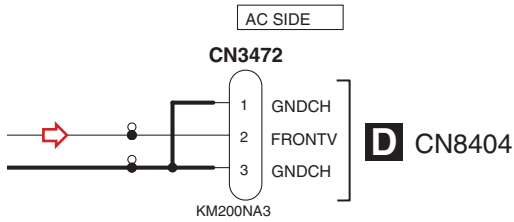
B

C

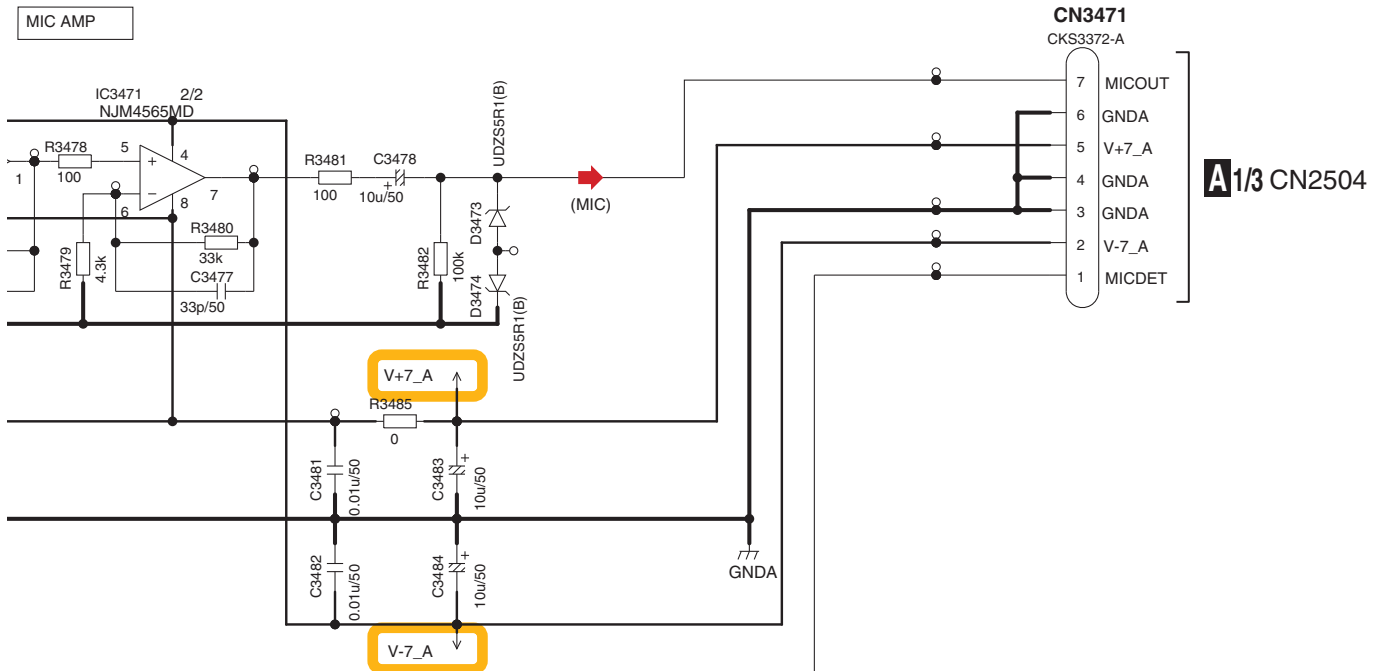
D

E

F



JH3001
VEF1040-A



➡: Audio Signal Route
➡: Video Signal Route

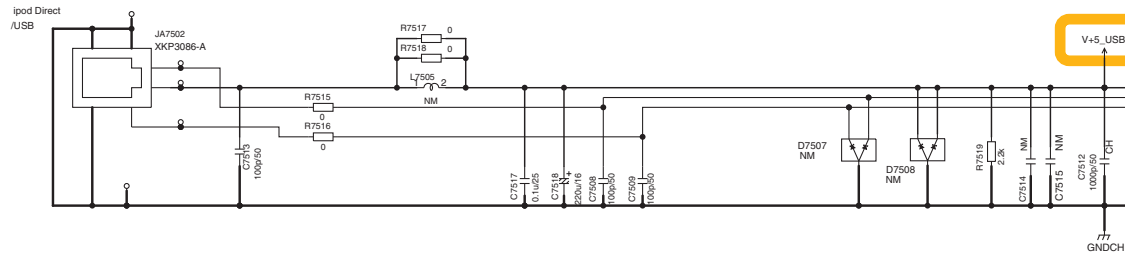
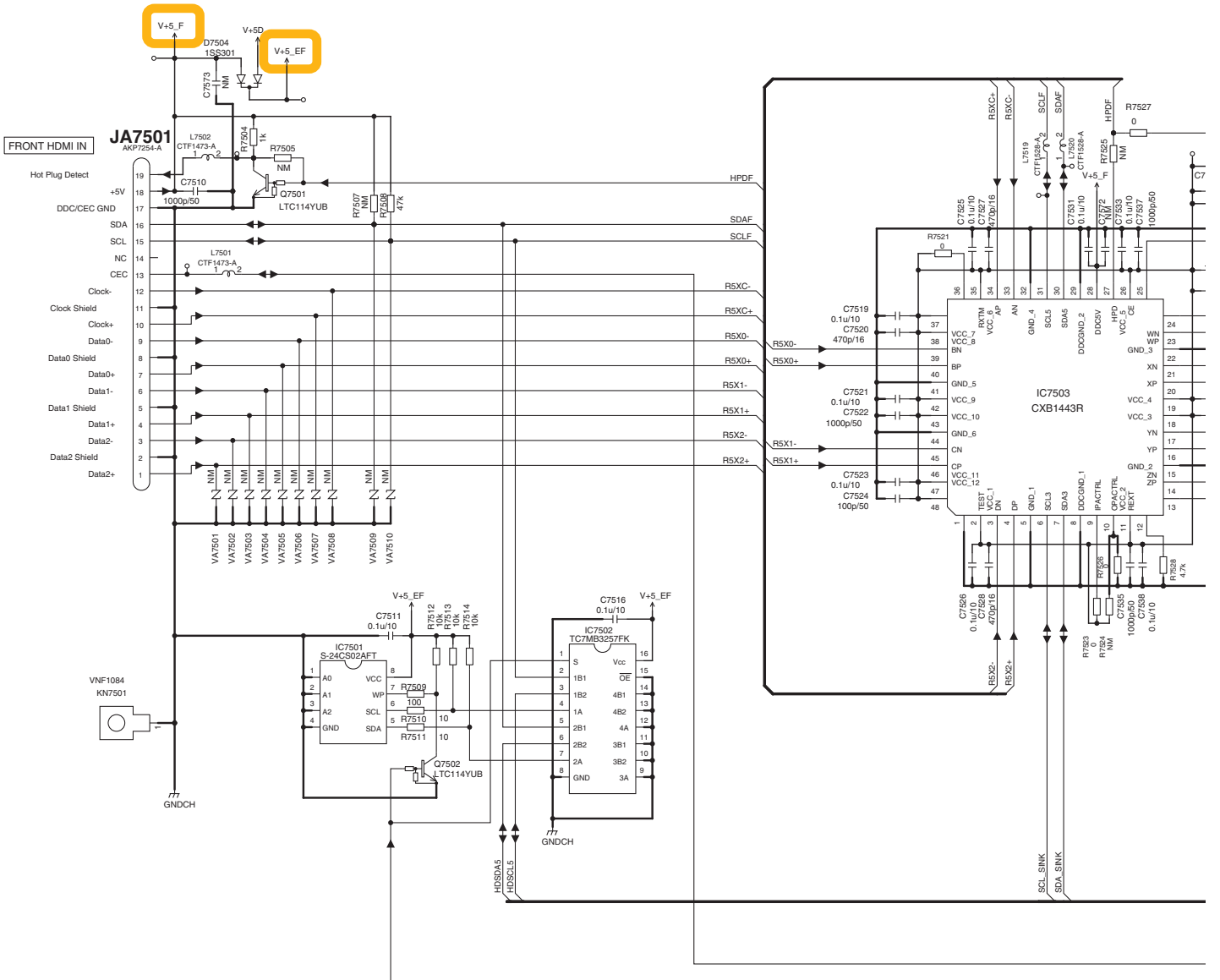
NOTE

1.RESISTORS
Unit: k-k Ω, M-M Ω or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

2.CAPACITORS
Unit: p-pF, or μ F unless otherwise noted.
Ratings: Capacity(μ F)/Voltage(V) unless otherwise noted.

10.19 FRONT HDMI USB ASSY

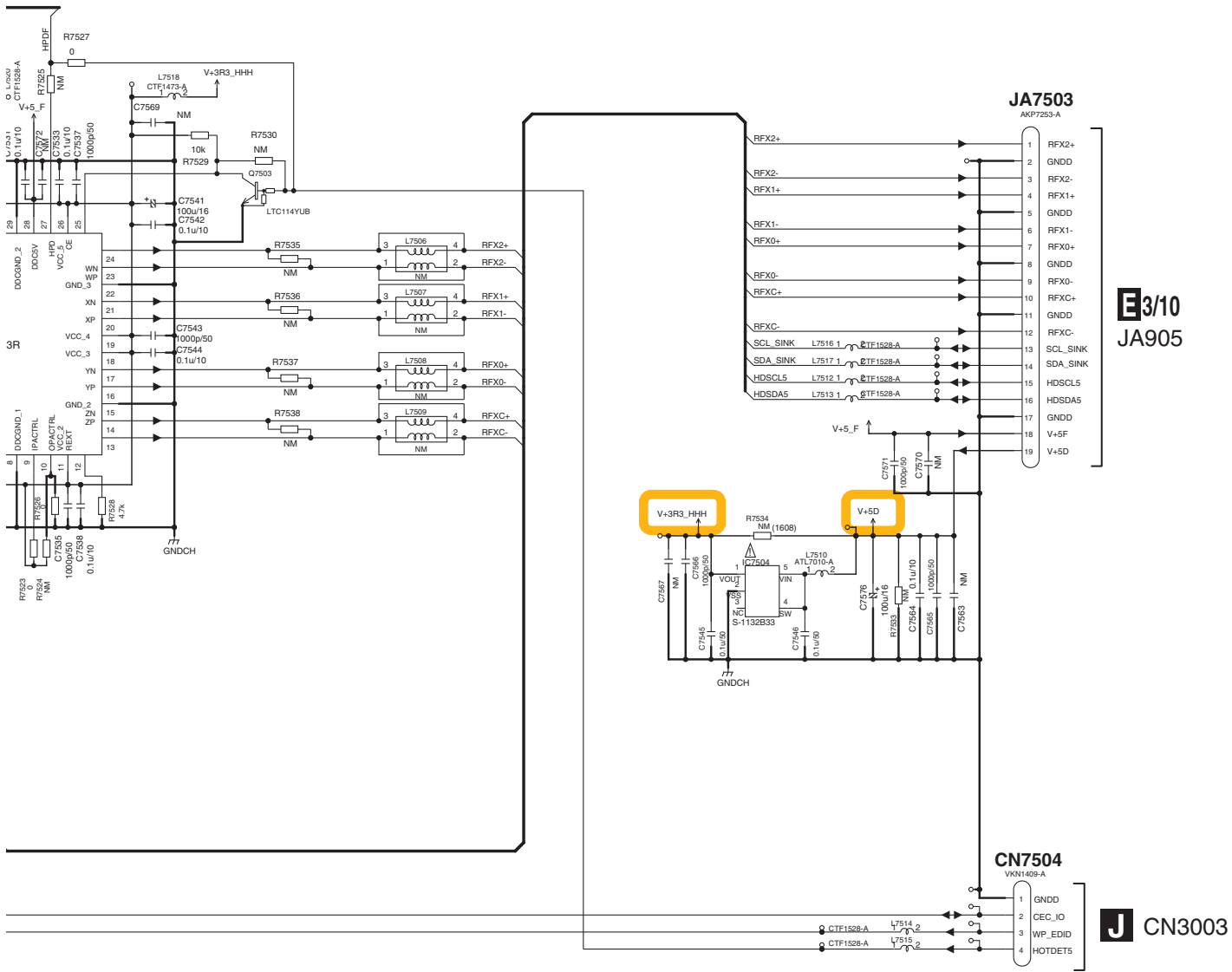
FRONT HDMI USB ASSY (AWX9565)



NOTE

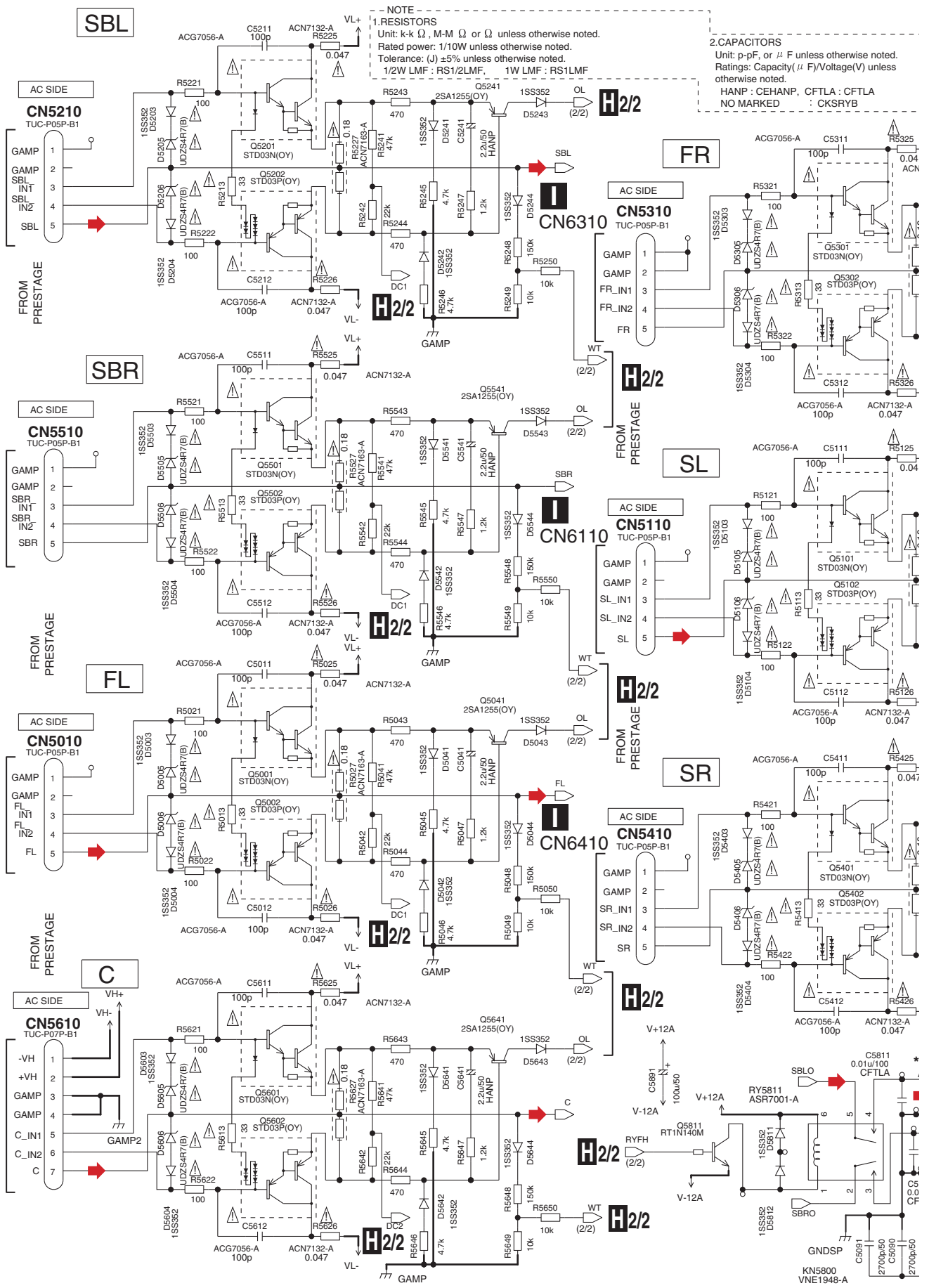
- RESISTORS
Unit: k-k Ω, M-M Ω or Ω unless otherwise noted
Rated Power: 1/8W unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
- CAPACITORS
No marked capacitors are CEAT or KCSRYB or CH; CCSRCH or CCSSCH
Unit: p-pF or u-uF unless otherwise noted.
Rating: Capacity(F)/Voltage(V) unless otherwise noted.
- NM: No Mount

The mark found on some component parts should be replaced with same parts (safely regulation authorized) of identical designation.



IRS
 . M M Ω or Ω unless otherwise noted.
 or 1/f unless otherwise noted.
 (J)5% unless otherwise noted.
 ORS
 Capacitors are CEAT or CKSRYB or CKSSYB.
 CH or CCSSCH
 * or *F unless otherwise noted.
 ipacity(F)/Voltage(V) unless otherwise noted.
 fount

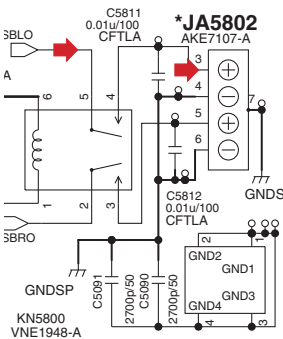
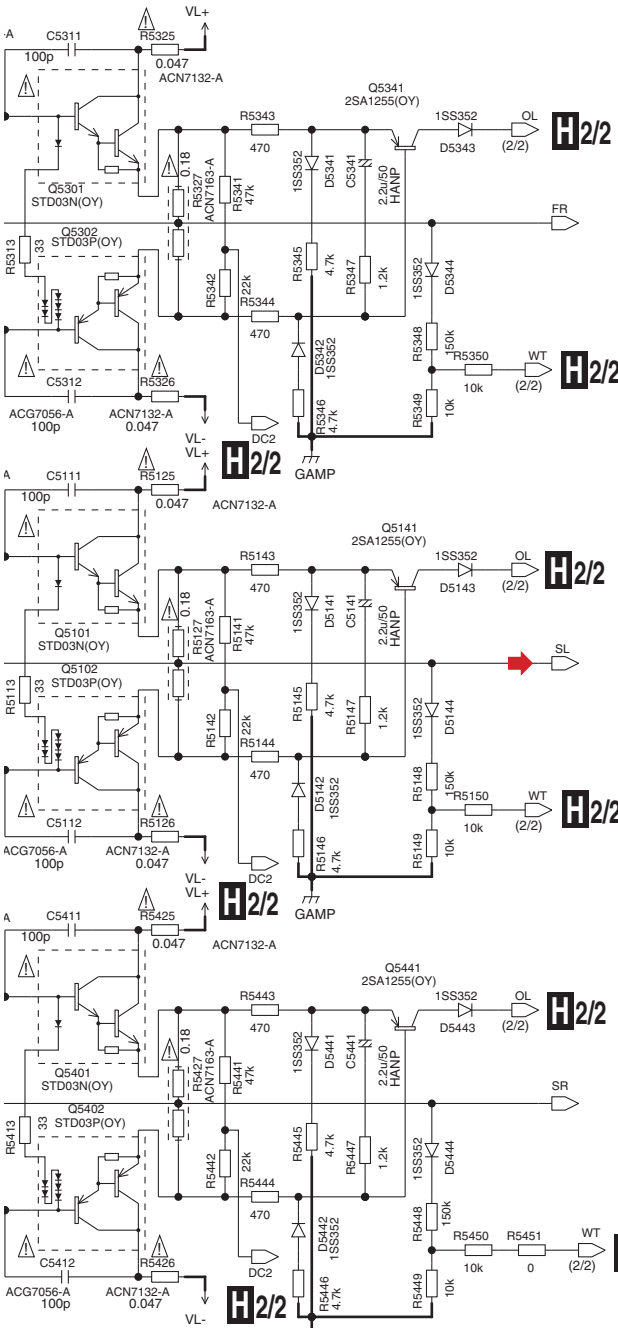
10.20 POWER AMP ASSY(1/2)



H1/2 POWER AMP ASSY (1/2) (AWX9660)

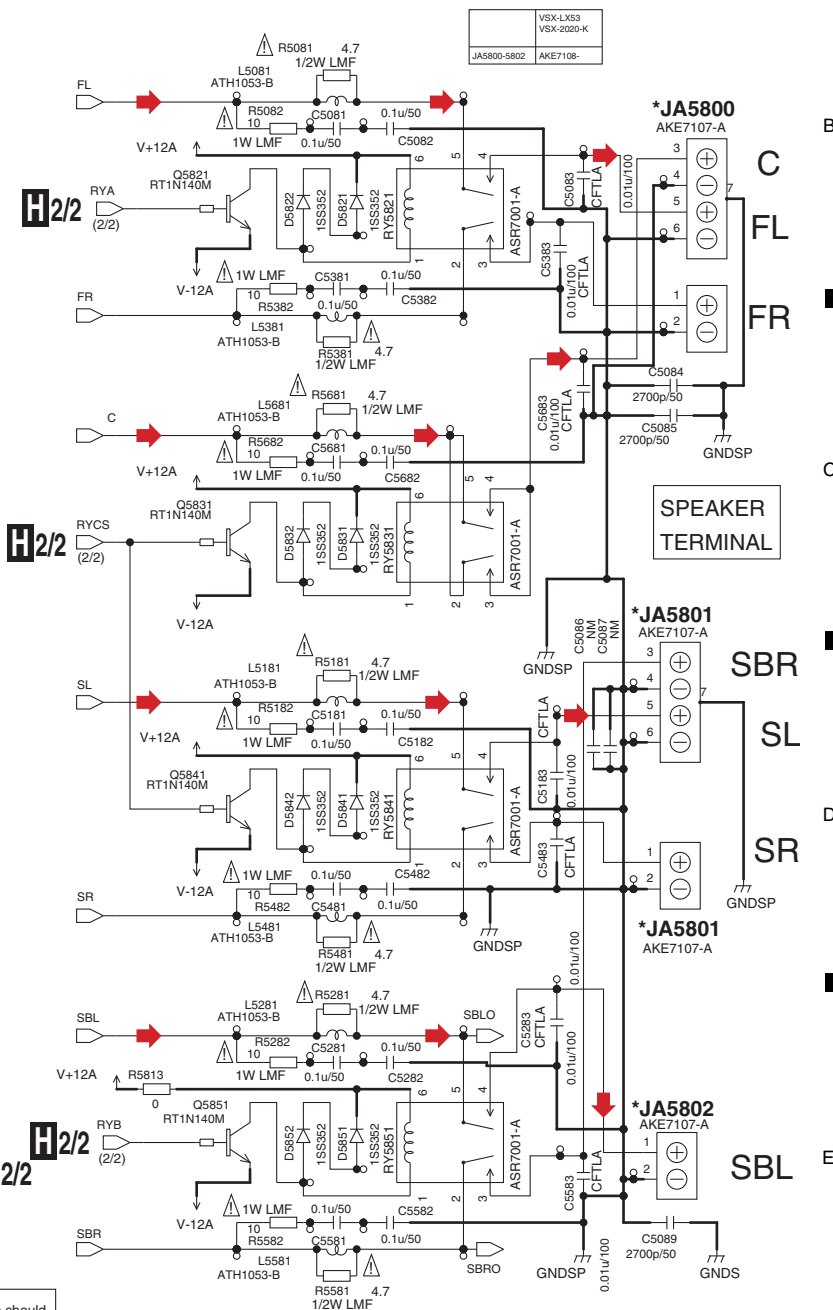
unless otherwise noted.
μF: F/Voltage(V) unless

CFTLA : CFTLA
CKSRYB



The Δ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

➔ : Audio Signal Route



JA5800-5802	VSX-LX53
AKE7108-	VSX-2020-K

SPEAKER TERMINAL

SBR

SL

SR

SBL

SBR

SBL

10.21 POWER AMP ASSY(2/2)

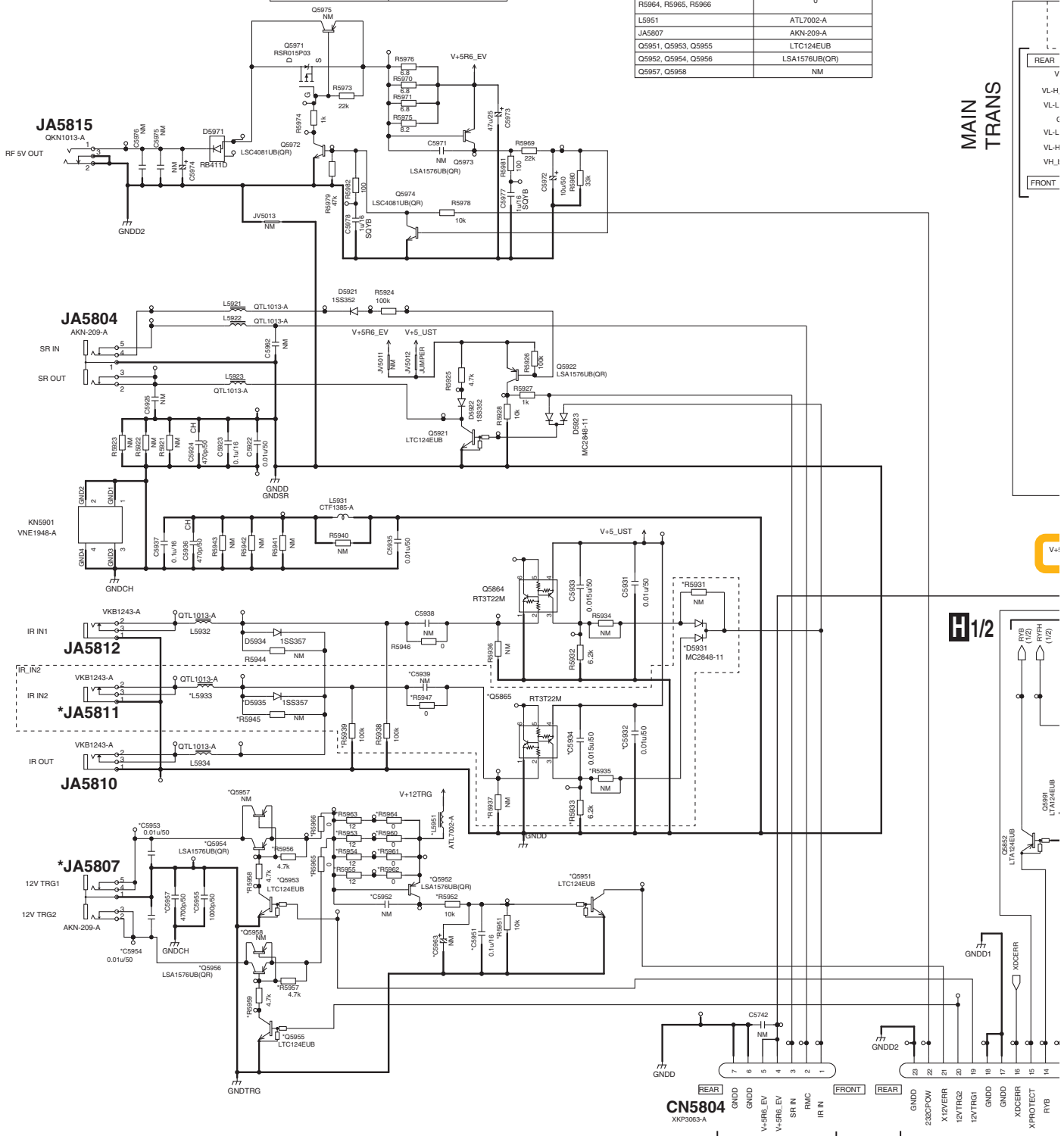
1 2 3 4

IR_IN2

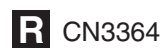
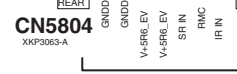
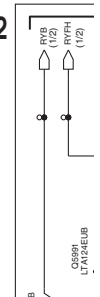
Part No.	Value
VSX-LX53, VSX-2020-K	
C5932	0.01u/50
C5934	0.015u/50
C5939	NM
R5931	NM
R5933	6.2k
R5935, R5937, R5945	NM
R5939	100k
R5947	0
L5933	OTL1013-A
D5935	MC2848-11
JA5811	4.7k
Q5865	RT3T22M

12V_TRG

Part No.	Value
VSX-LX53, VSX-2020-K	
C5951	0.1u/16
C5952	NM
C5953, C5954	0.01u/50
C5955	1000p/50
C5957	4700p/50
C5963	NM
R5951, R5952	10k
R5953, R5954, R5955, R5958	12
R5956, R5957, R5958, R5959	4.7k
R5960, R5961, R5962, R5964, R5965, R5966	0
LS951	ATL7002-A
JA5807	AKN-209-A
Q5951, C5953, C5955	LTC124EUB
Q5952, C5954, C5956	LSA1576UB(QR)
Q5957, C5958	NM



MAIN TRANS

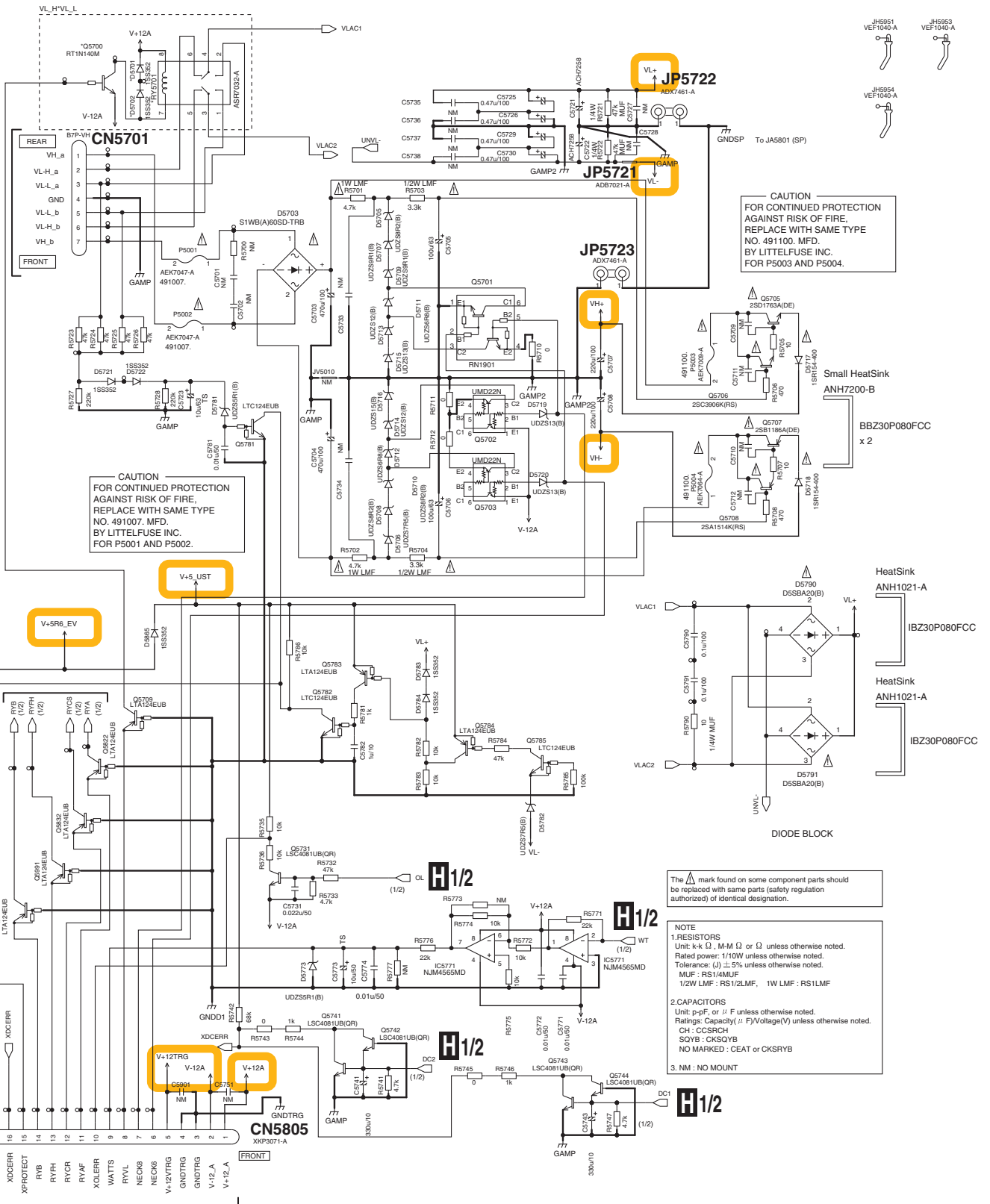


1 2 3 4

VL_H*VL_L	VSX-LX53, VSX-2020-K
D5701, D5702	1SS352
Q5700	RT1N140M
RY5701	ASR7032-A

H/2/2 POWER AMP ASSY (2/2) (AWX9660)

MAIN TRANS



R CN3363

VSX-LX53

H/2/2

10.22 PRESTAGE ASSY

1

2

3

4

A

B

C

D

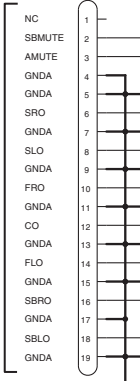
E

F



A/2/3

CN3052 CN6603



AC SIDE

SR

SL

FR

C

AC SIDE

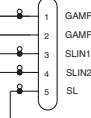
CN6410



1/2 CN1502

AC SIDE

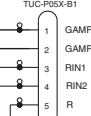
CN6110



1/2 CN5

AC SIDE

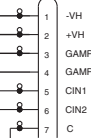
CN6310



1/2 CN5

AC SIDE

CN6610



1/2 CN5

The mark be replaced v authorized) o

NOTE

1.RESISTC
Unit: Ω
Rated
Toler
RN I
RN I
F: R
VM: R
MUF
2.CAPACI
Unit: μ
Rating
HA: L
CH: I
NO: I
3.NM: NC

→: AL

1

2

3

4

PRESTAGE ASSY (AWX9580)

The mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

NOTE

1.RESISTORS
 Unit: k-k Ω, M-M Ω or Ω unless otherwise noted.
 Rated power: 1/10W unless otherwise noted.
 Tolerance: (Ω) ± 5% unless otherwise noted.
 RN D (1/10W) - RN1/10SE***D
 RN D - RN1/16SE***D
 F - RS1/10SR***F
 VM - RD1/2VM
 MUF - RD1/4MUF

2.CAPACITORS
 Unit: p-pF, or μF unless otherwise noted.
 Ratings: Capacity (μF)/Voltage(V) unless otherwise noted.
 HA - CEHAT
 CH - CCSRCH
 NO MARKED - CKSRYB

3.NM : NO MOUNT

10
 B1
 GAMP
 GAMP
 SRIN1
 SRIN2
 SR

1/2
 1/1502

➔ : Audio Signal Route

10
 B1
 GAMP
 GAMP
 SLIN1
 SLIN2
 SL

H 1/2 CN5110

10
 B1
 GAMP
 GAMP
 RIN1
 RIN2
 R

H 1/2 CN5310

10
 B1
 -VH
 +VH
 GAMP
 GAMP
 CIN1
 CIN2
 C

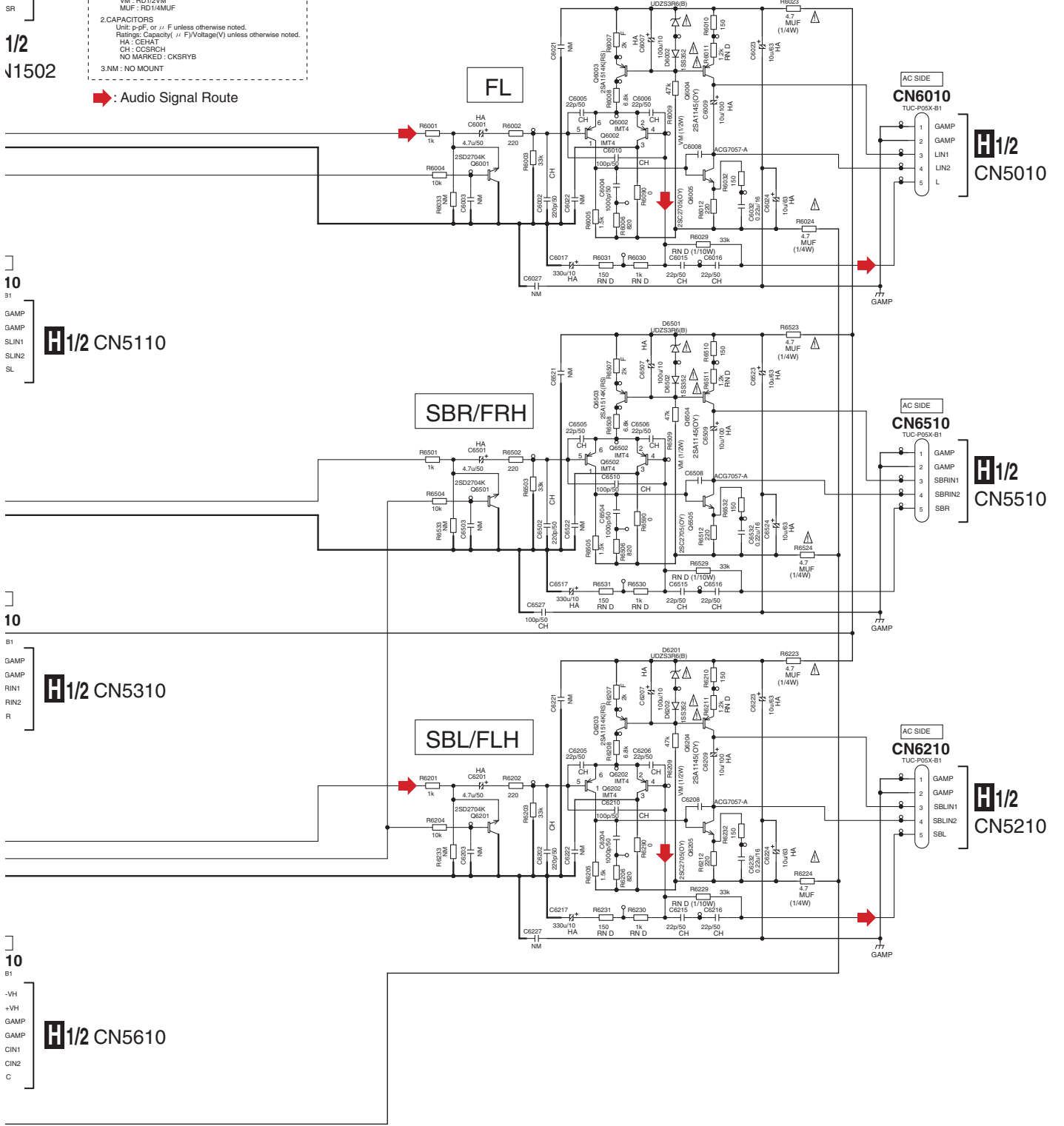
H 1/2 CN5610

FL

SBR/FRH

SBL/FLH

VSX-LX53



A

B

C

D

E

F

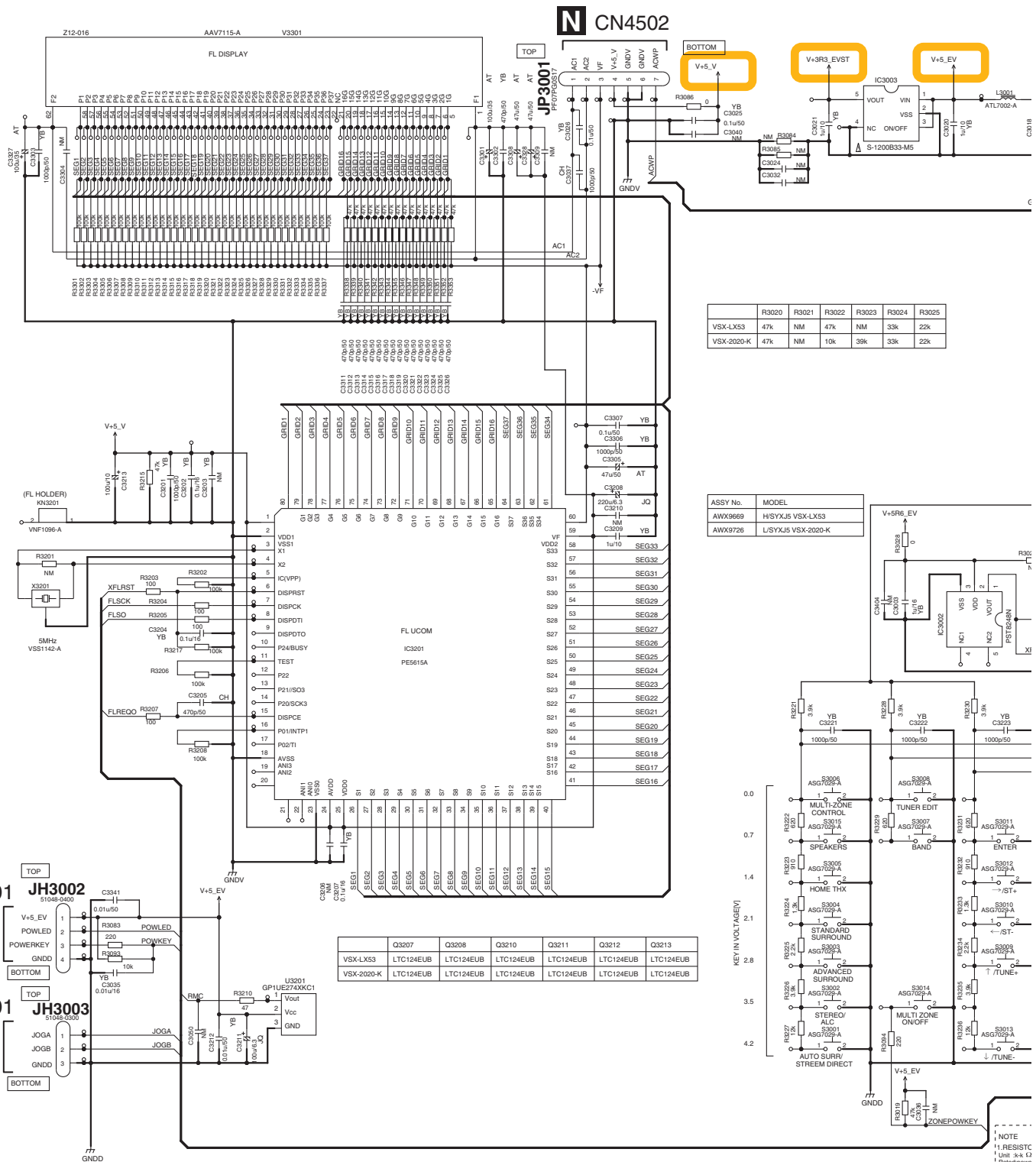


10.23 DISPLAY ASSY

1 2 3 4

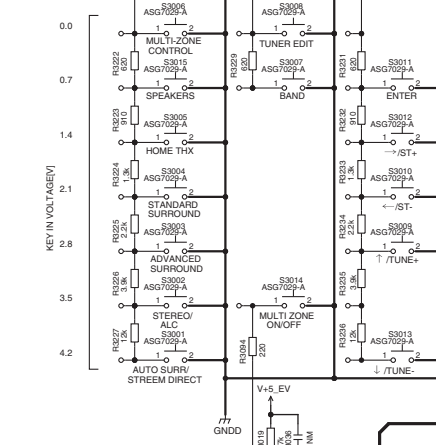
A
B
C
D
E
F
J

	C3218	C3219	C3343	R3079	R3211	R3212	R3213	R3214	R3241	R3242	R3243	R3244	R3245	R3246	R3247	R3356	D3204	D3206	D3208	D3210	D3212	D3214	D3216	
VSX-LX53	47p/50	47p/50	10p/50	NM	NM	NM	NM	NM	150	150	150	150	150	150	150	560	100	SLR343BC4T(KLM)	SLR343BC4T(KLM)	SLR343BC4T(KLM)	SLR343BC4T(KLM)	SLR343BC4T(KLM)	SLR343BC4T(KLM)	SLR343WBC7(MNPO)
VSX-2020-K	47p/50	47p/50	10p/50	NM	NM	NM	NM	NM	150	150	150	150	150	150	150	560	100	SLR343BC4T(KLM)	SLR343BC4T(KLM)	SLR343BC4T(KLM)	SLR343BC4T(KLM)	SLR343BC4T(KLM)	SLR343BC4T(KLM)	SLR343WBC7(MNPO)



	R3020	R3021	R3022	R3023	R3024	R3025
VSX-LX53	47k	NM	47k	NM	33k	22k
VSX-2020-K	47k	NM	10k	39k	33k	22k

ASSY No.	MODEL
AWX9669	HSYXJ5 VSX-LX53
AWX9728	LISYXJ5 VSX-2020-K



	Q3207	Q3208	Q3210	Q3211	Q3212	Q3213
VSX-LX53	LTC124EUB	LTC124EUB	LTC124EUB	LTC124EUB	LTC124EUB	LTC124EUB
VSX-2020-K	LTC124EUB	LTC124EUB	LTC124EUB	LTC124EUB	LTC124EUB	LTC124EUB

The **▲** mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

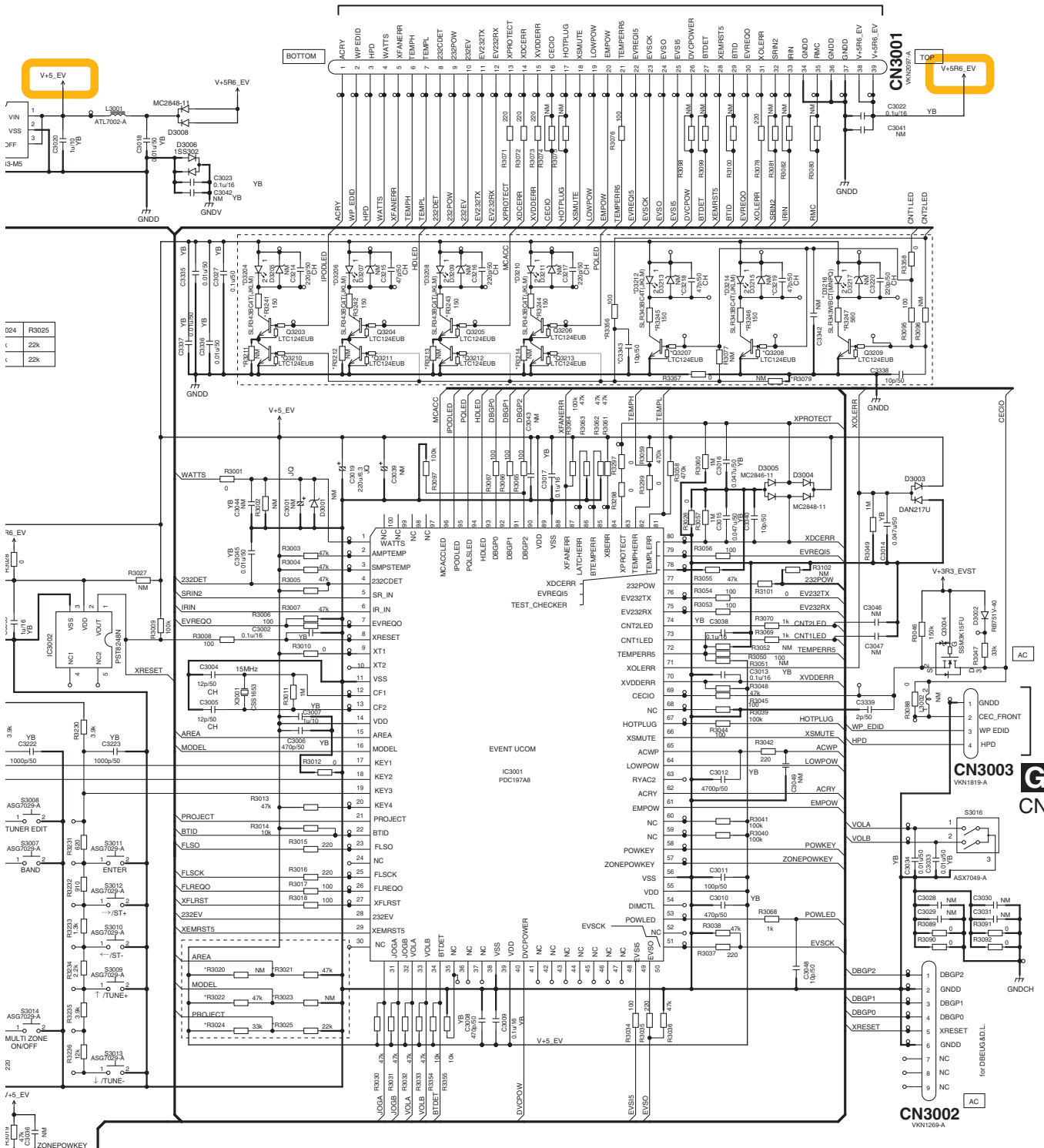
- NOTE
- 1 RESISTOR
- 2 UNIT: k=1k, Ω=1Ω
- 3 Rated power
- 4 Tolerance: ±
- 5 CAPACITOR
- 6 UNIT: p=pF, μ=μF
- 7 Tolerance: ±
- 8 VB: CISKRY
- 9 NM: No

1 2 3 4

D2316
SLR943WBCCT(MNPO)
SLR943WBCCT(MNPO)

J DISPLAY ASSY (VSX-LX53: AWX9669) (VSX-2020-K: AWX9726)

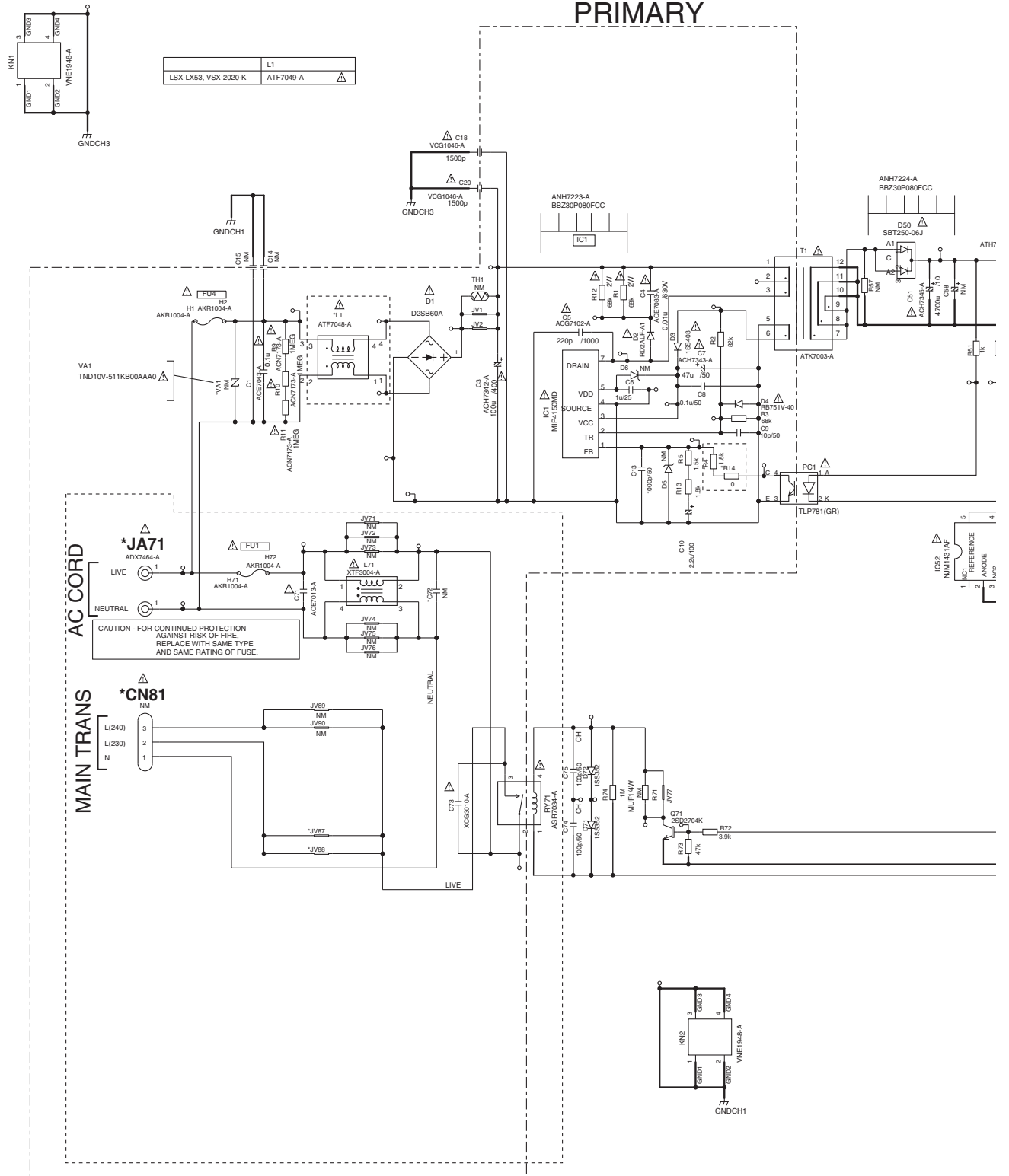
E/210 CN601



NOTE

- 1: RESISTORS
- Unit: k Ω, M Ω or Ω unless otherwise noted.
- Rated power: 1/10W unless otherwise noted.
- Tolerance: J: ±5% unless otherwise noted.
- 2: CAPACITORS
- Unit: p-pF or μF unless otherwise noted.
- Rated Capacity: μF (Voltage/V) unless otherwise noted.
- YB: CxSR15B CH-COSPH AT CEAT-JO CxCO
- 3: NM: No mount

10.24 PRIMARY ASSY



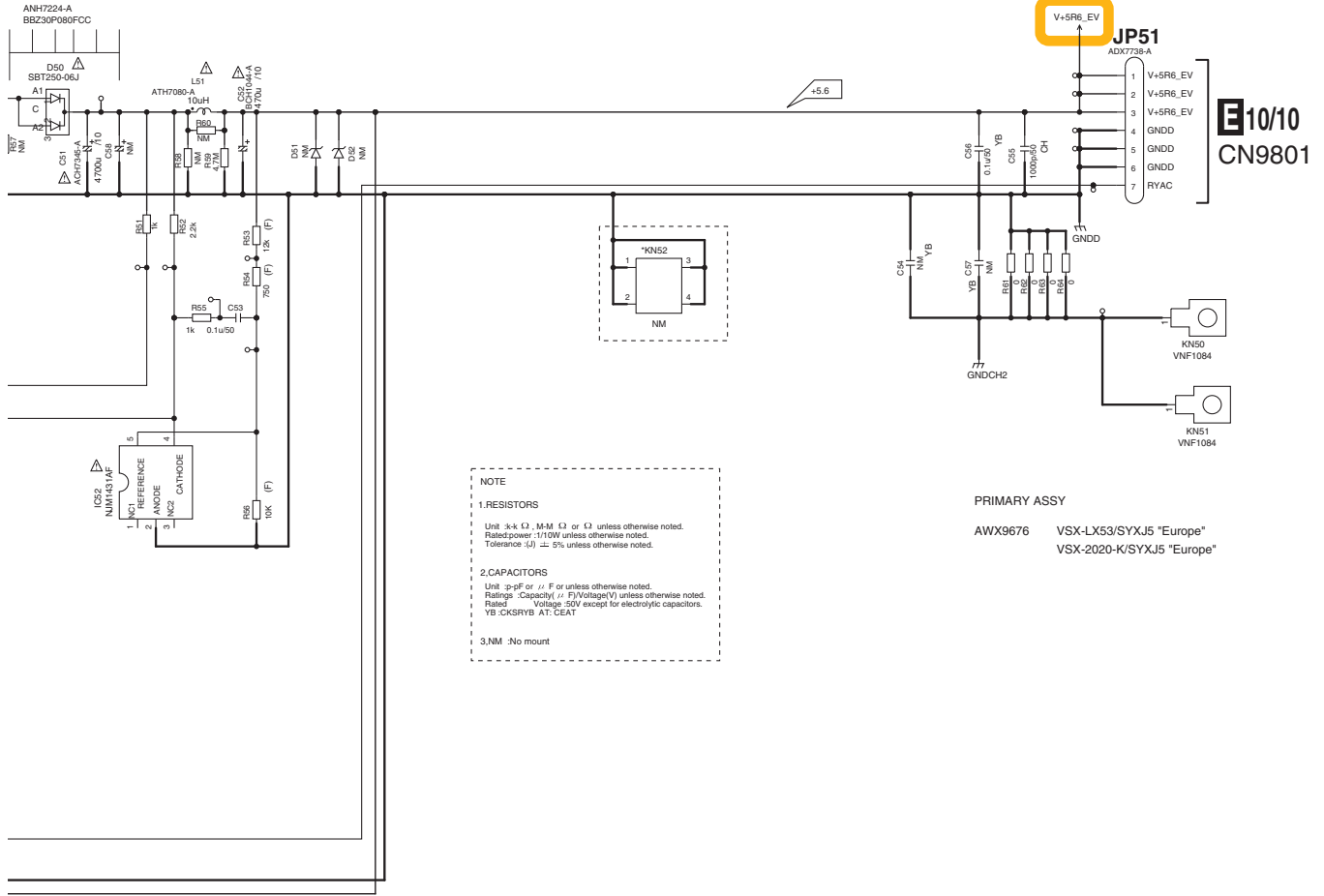
CAUTION-
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

The Δ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.



K PRIMARY ASSY (AWX9676)

	KN52
LSX-LX53, VSX-2020-K	ANG7591-A

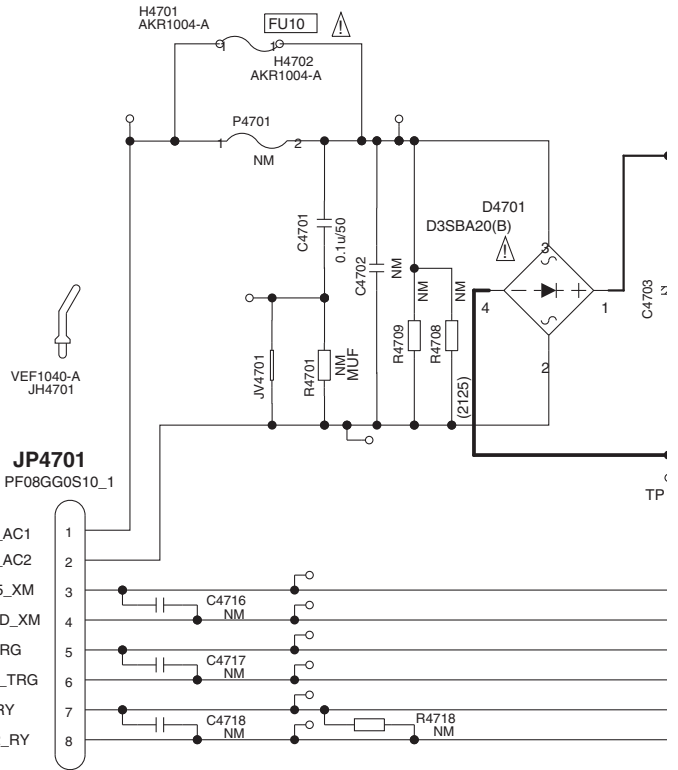


	VSX-LX53, VSX-2020K
R4	820
R14	1k

	AWX9676 SY
C72	ACE7013-A
CN81	B3P5-VH
CN82	NM
CN83	NM
CN84	NM
JA71	ADX7464-A
JA71_1	ADX7464-A, 1
JP81	NM
JP81_1	NM
JP81_2	NM
JP81_3	NM
JV87	JUMPER
JV88	JUMPER

10.25 USB REGULATOR ASSY

USB REGULATOR ASSY (AWX9581)



NOTE

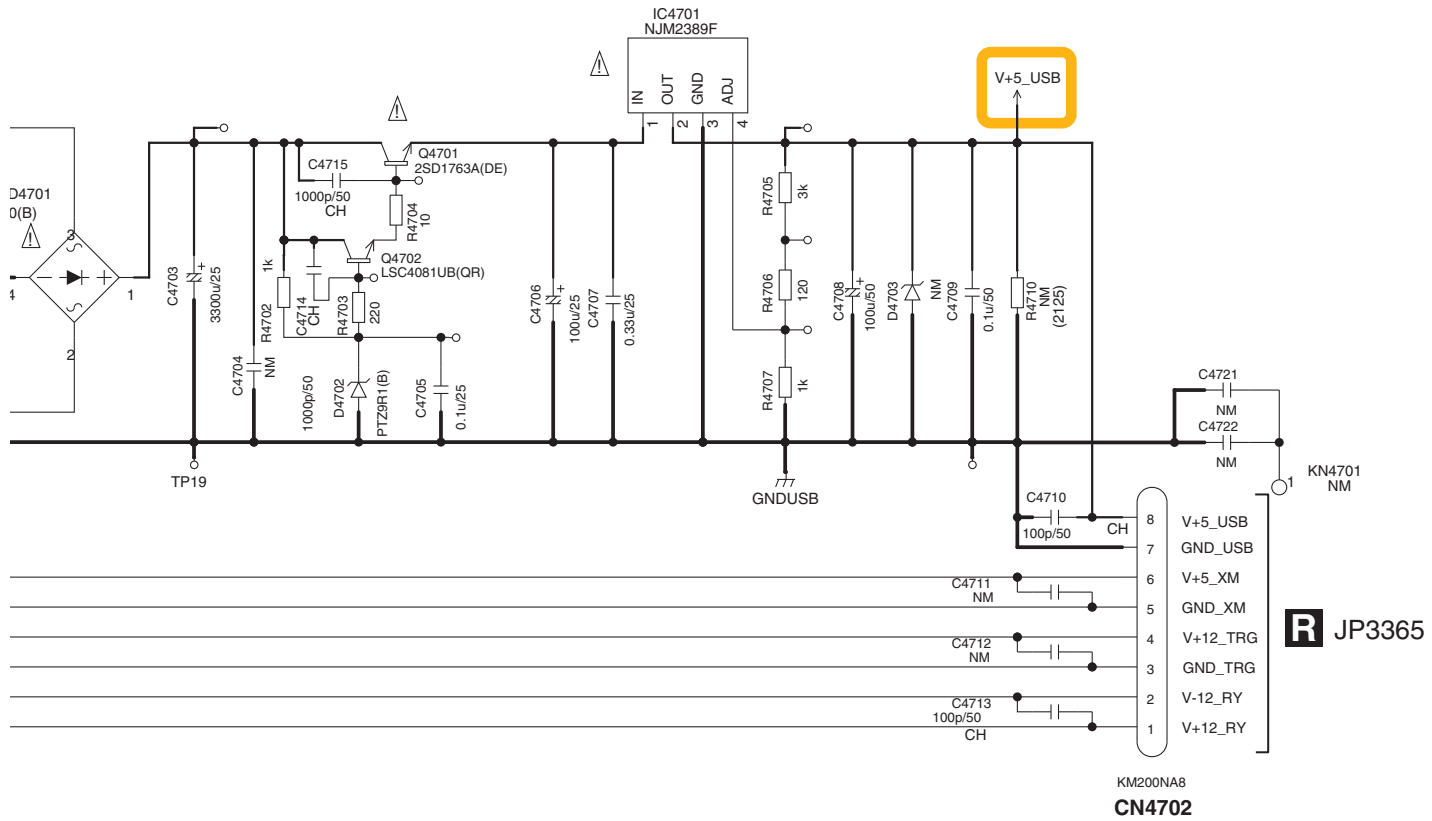
- RESISTORS**
Unit: k-k Ω , M-M Ω or Ω unless otherwise noted.
Rated Power: 1/10W unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
MUF : RD1/4MUF
2125 : RS1/8SQ
- CAPACITORS**
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CH : CCSRCH
NO MARKED : CEAT or CKSRYB
- NM : NO MOUNT

M JP4303

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

The mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.





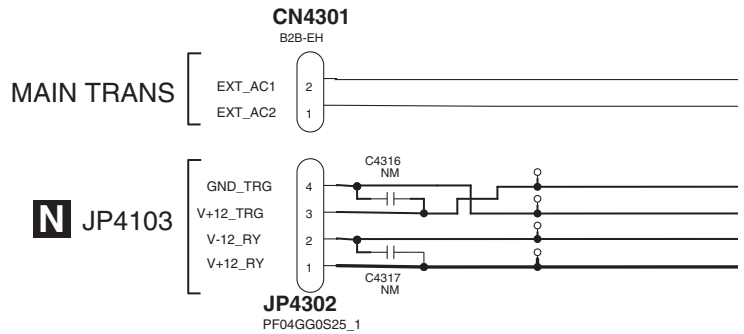
R JP3365

KM200NA8
CN4702

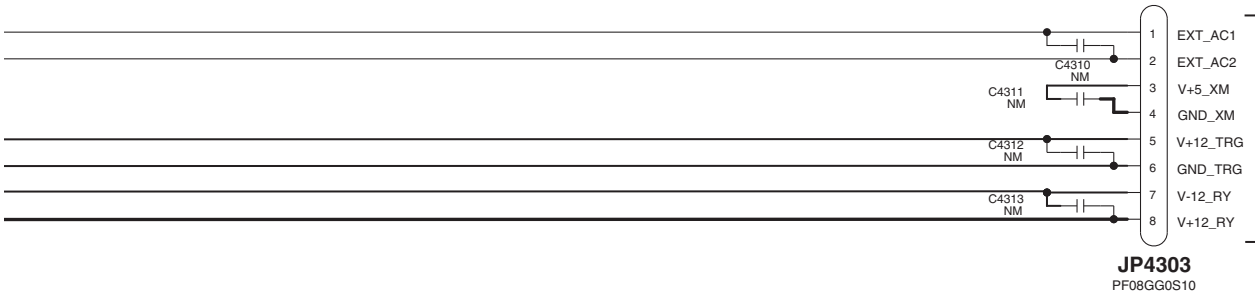
10.26 XM REGULATOR ASSY

M XM REGULATOR ASSY
(AWX9667)

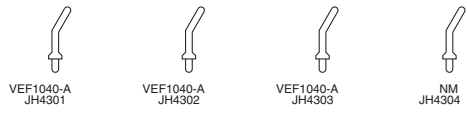
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.



NOTE
 1. RESISTORS
 Unit: k Ω , M-M Ω or Ω unless otherwise noted.
 Rated Power: 1/10W unless otherwise noted.
 Tolerance: (J)5% unless otherwise noted.
 MUF : RD1/4MUF
 2125 : RS1/8SQ
 2. CAPACITORS
 Unit: p-pF or u-uF unless otherwise noted.
 Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
 CH : CCSRCH
 NO MARKED : CEAT or CKSRYB
 3. NM : NO MOUNT



JP4701



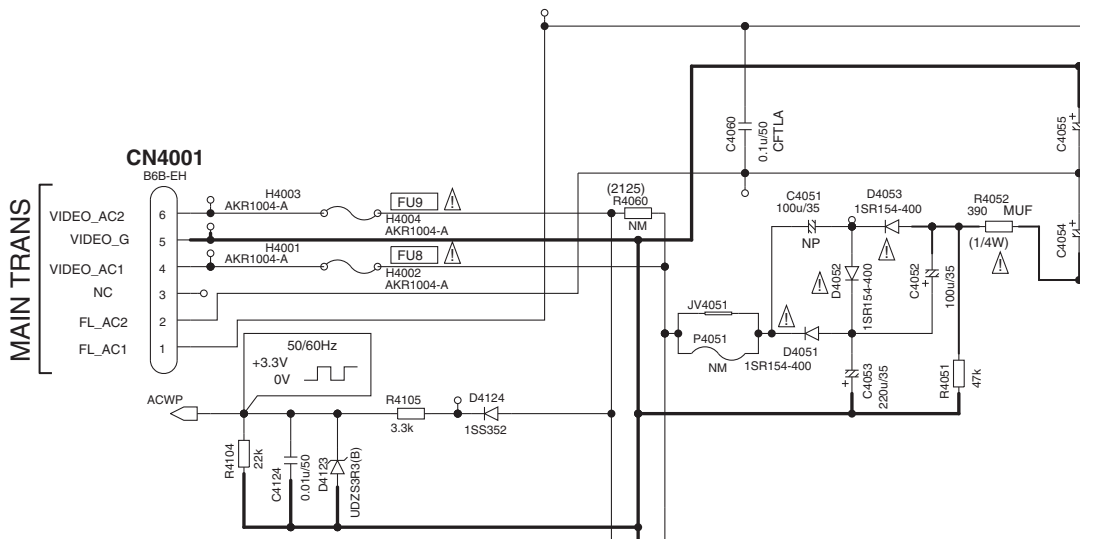
10.27 REGULATOR ASSY

	VSX-LX53, VSX-2020-K
C4081	NM
C4082	NM
C4083	NM
C4084	NM
C4085	NM
C4086	NM
C4087	NM
R4081	NM
R4082	NM
R4083	NM
R4084	NM
R4085	NM
R4086	NM
CN4081	NM
D4081	NM
D4082	NM
D4083	NM
D4084	NM
P4081	NM
P4082	NM
Q4081	NM
Q4082	NM
Q4083	NM

The Δ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

		VSX-LX53 VSX-2020-K
JV4081 JV4082		NO MOUNT
J4081 J4083 J4086 J4088	J4082 J4084 J4087 J4089	NO MOUNT

A
B
C
D
E
F

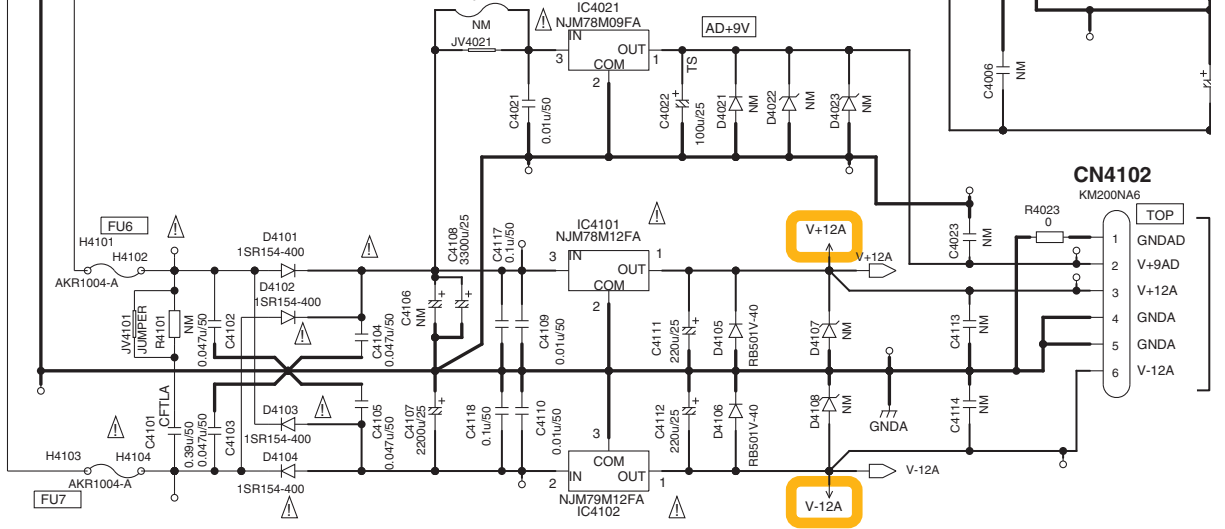
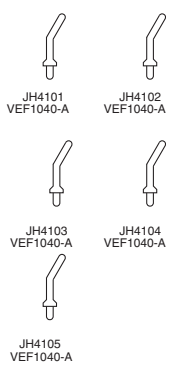
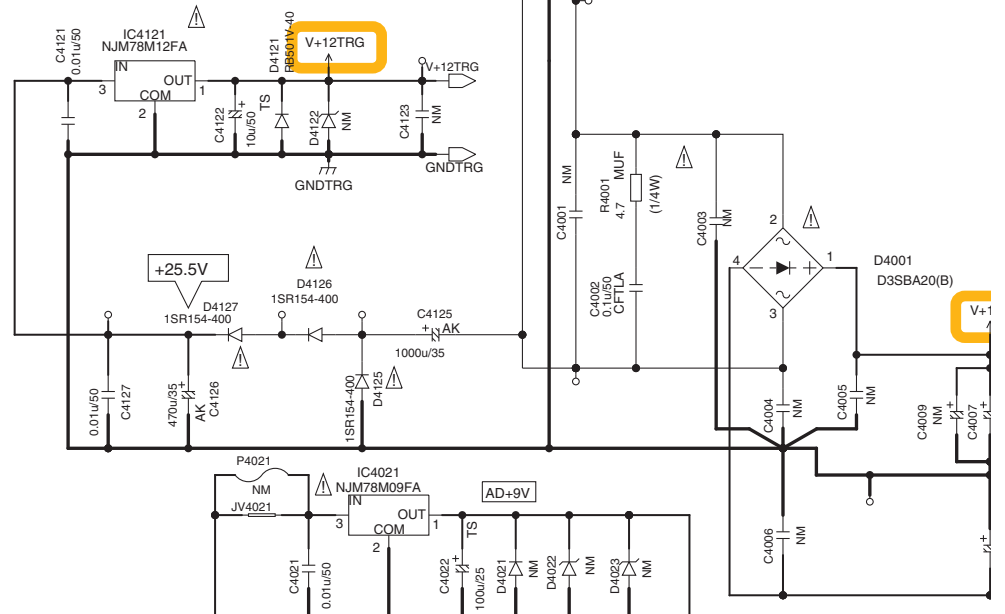
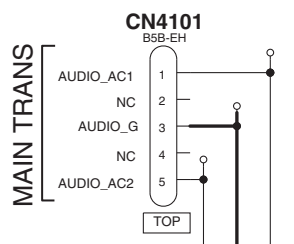


NOTE

1. RESISTORS
Unit: k-k Ω , M-M Ω or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) \pm 5% unless otherwise noted.
2125 : RS1/8SQ
MUF : RS1/4MUF

2. CAPACITORS
Unit: p-pF, or μ F unless otherwise noted.
Ratings: Capacity (μ F)/Voltage(V) unless otherwise noted.
NP : CEANP
CFTLA ; CFTLA
AK : CEAK
NO MARKED : CEAT or CKSRYB

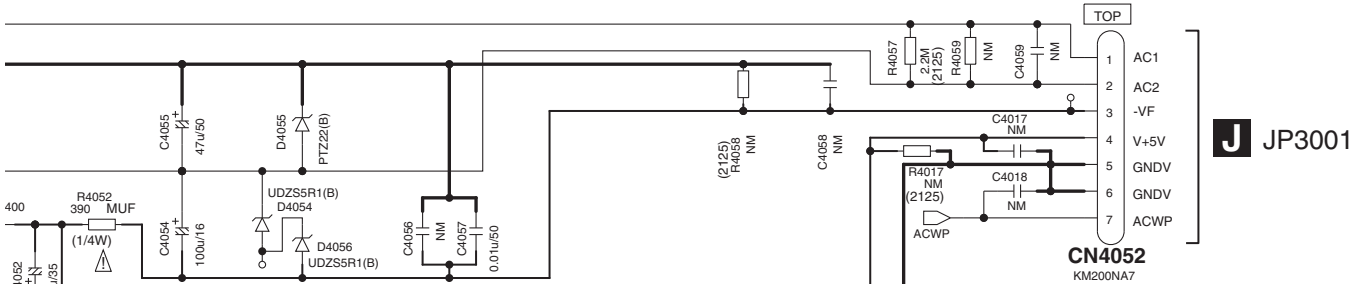
3. NM : NO MOUNT



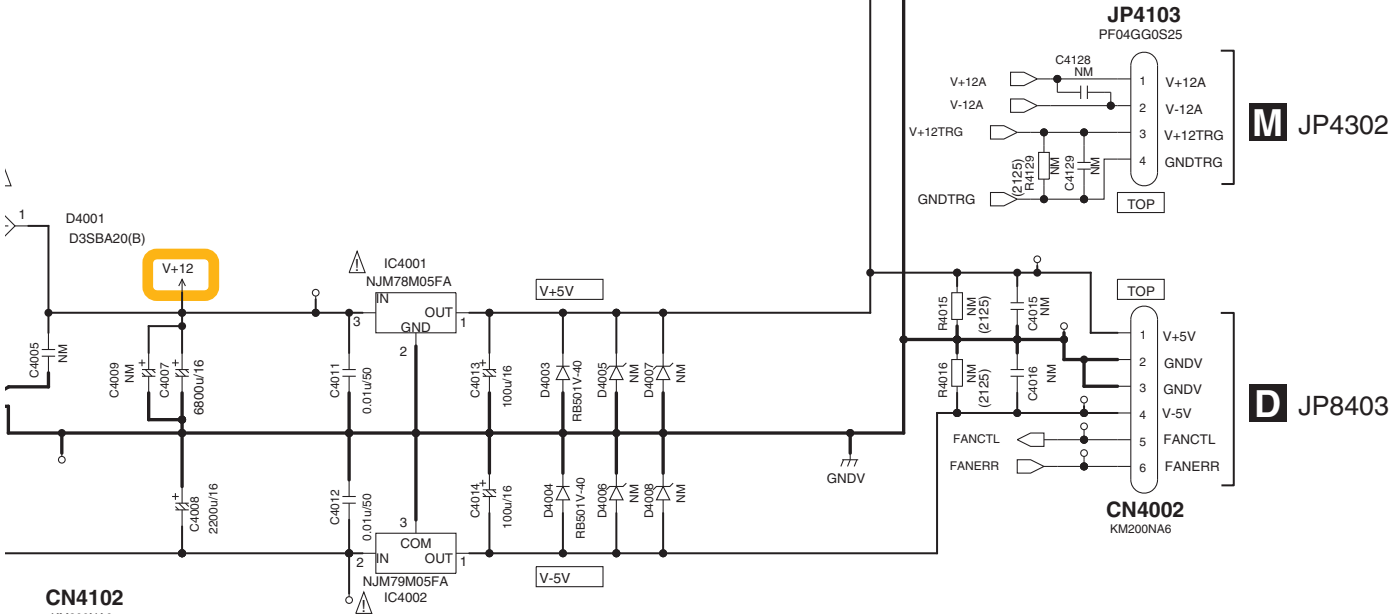
1 2 3 4

N REGULATOR ASSY (AWX9579)

X-LX53
X-2020-K
○ MOUNT
○ MOUNT

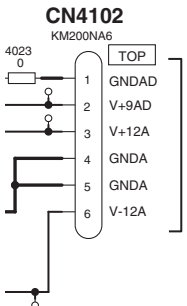


J JP3001



M JP4302

D JP8403



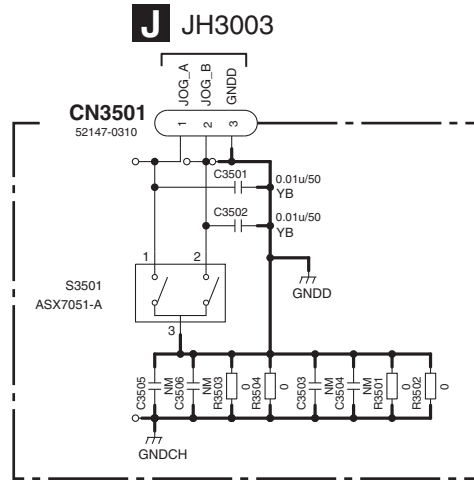
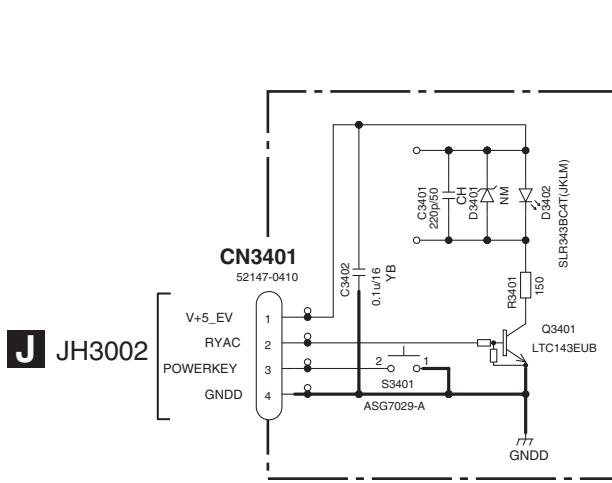
A1/3 JP3002

CAUTION-
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

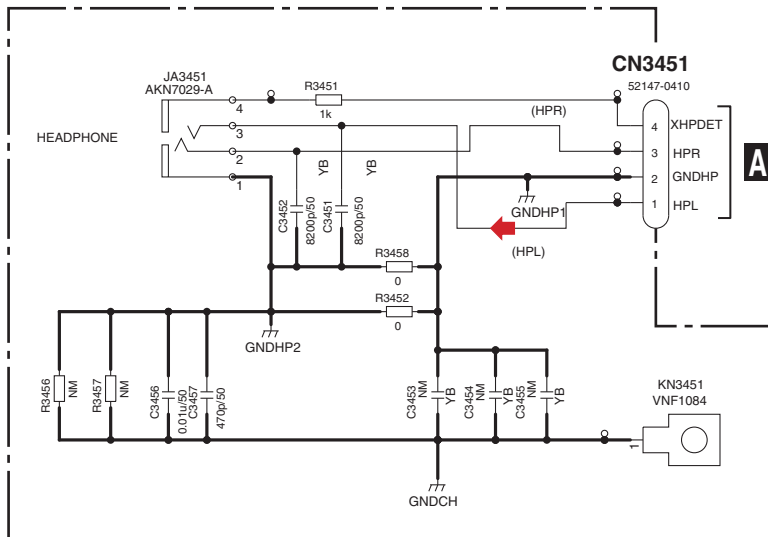
10.28 POWER SW, ENCODER and HEADPHONE ASSYS

O POWER SW ASSY (AWX9588)

P ENCODER ASSY (AWX9589)



Q HEADPHONE ASSY (AWX9590)



A1/3 JH2505

➔ : Audio Signal Route

NOTE

1. RESISTORS
Unit :k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power :1/10W unless otherwise noted.
Tolerance : (J) ±5% unless otherwise noted.

2. CAPACITORS
Unit : p-pF or μ-μF or n-nF unless otherwise noted.
Ratings : Capacity(F)/Voltage(V) unless otherwise noted.
YB :CKSRVB CH :CCSRCH

3. NM :No mount

10.30 D-AUDIO BRIDGE ASSY

T D-AUDIO BRIDGE ASSY (AWX9569)

A

B

C

D

E

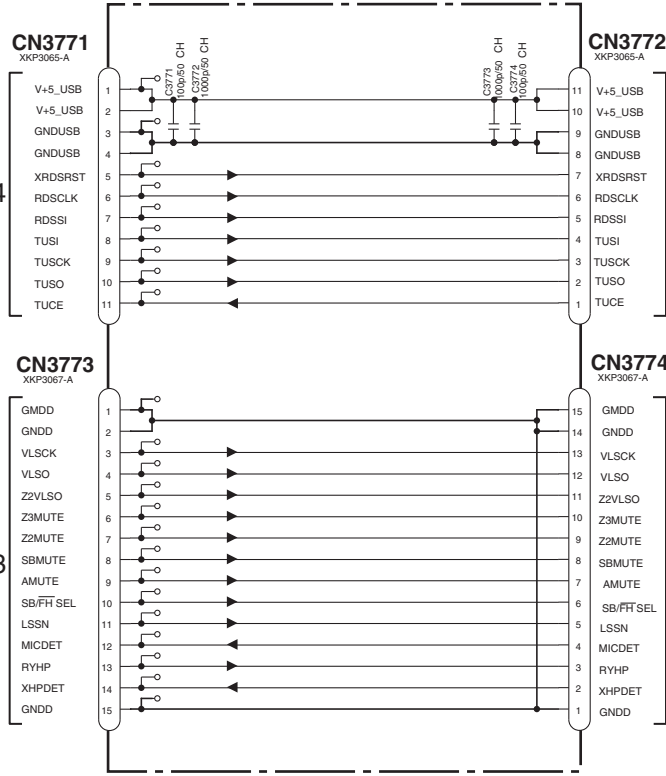
F

E 8/10 CN9304

A 1/3 CN3901

E 8/10 CN9303

A 1/3 CN2861



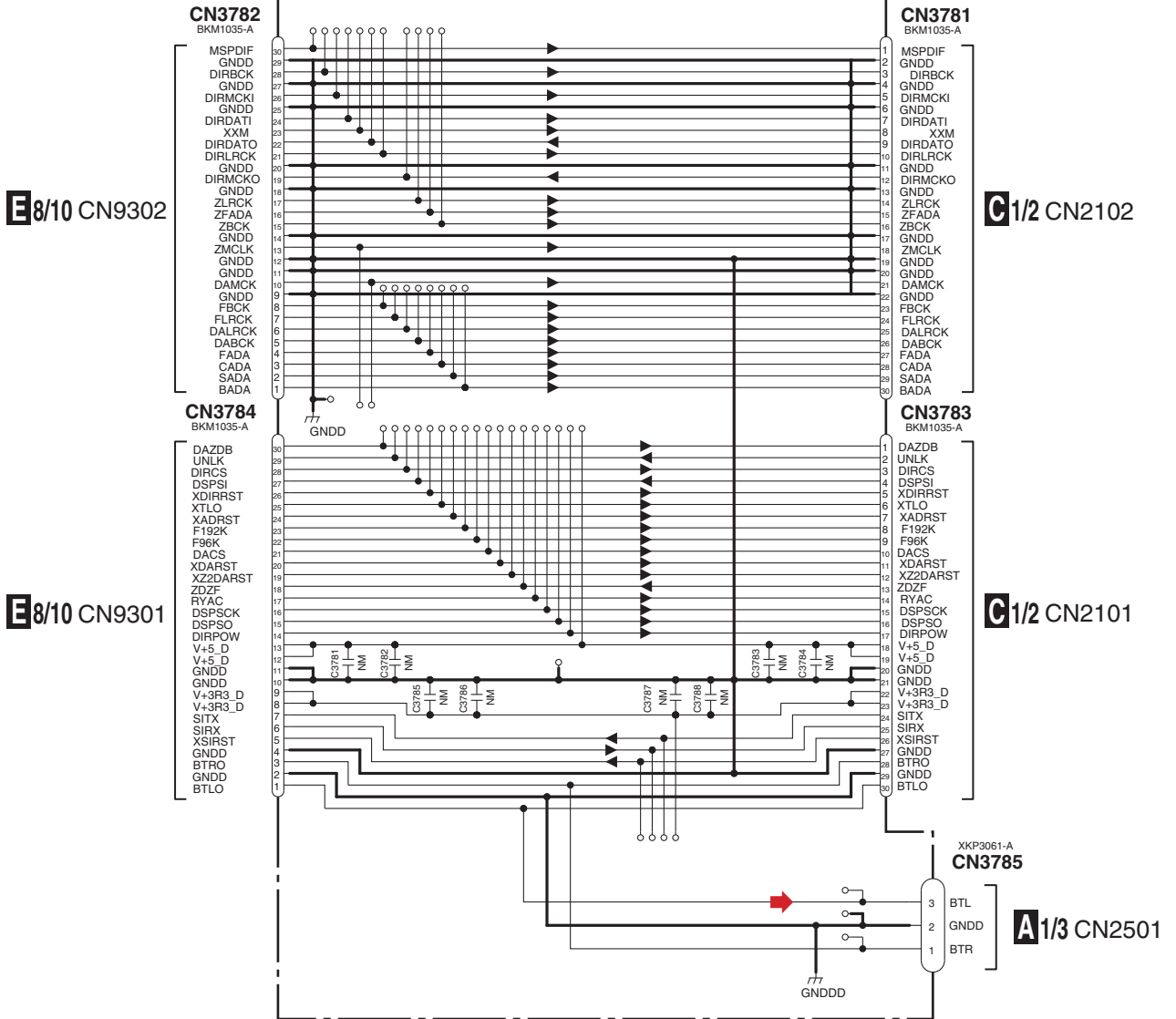
NOTE

1. RESISTORS
Unit: k-k Ω, M-M Ω or Ω unless otherwise noted.
Rated Power: 1/10w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.

2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CH : CCS/ROH
NO MARKED : CKSRYB
3. NM: No Mount

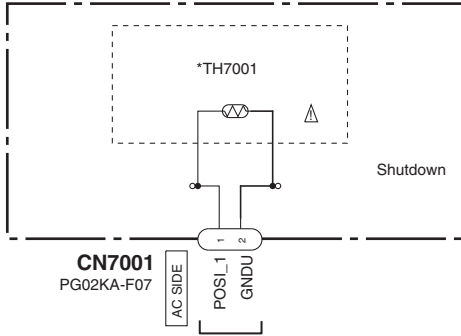
10.31 D-DAC BRIDGE ASSY

U D-DAC BRIDGE ASSY (AWX9570)



10.32 POS 1-3 ASSYS

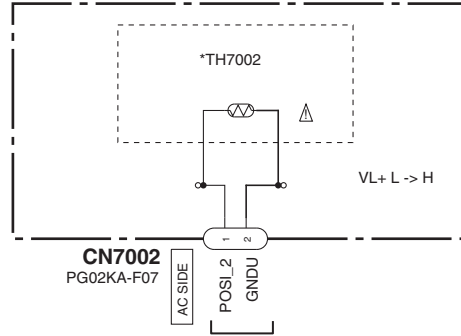
V POSI 1 ASSY (AWX9576)



E2/10 CN606

	VSX-LX53, VSX-2020-K
TH7001	PTFM04BB222Q2N34BS

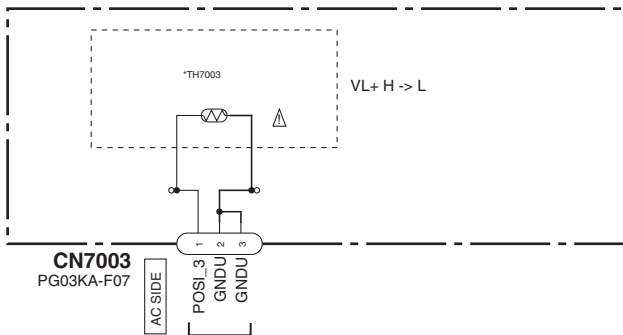
W POSI 2 ASSY (AWX9577)



E2/10 CN605

	VSX-LX53, VSX-2020-K
TH7002	PTFM04BE222Q2N34BS

X POSI 3 ASSY (AWX9578)



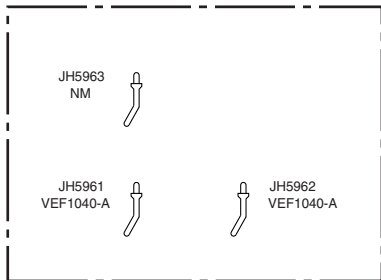
E2/10 CN604

	VSX-LX53, VSX-2020-K
TH7003	PTFM04BG222Q2N34BS

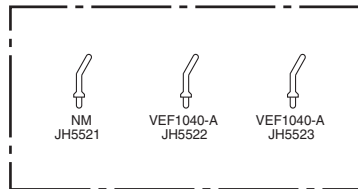
The \triangle mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

10.33 BIND L FRONT and BACK, BINDER, BIND DM CABLE, BIND R BACK and FRONT, BIND DISP FFC ASSYS

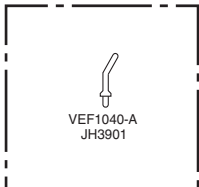
Y BIND L FRONT ASSY (AWX9574)



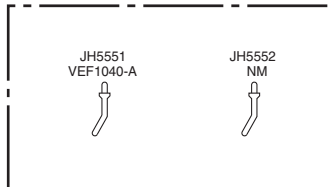
Z BIND L BACK ASSY (AWX9585)



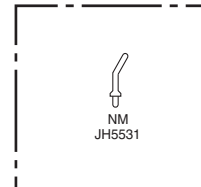
AA BINDER ASSY (AWX9595)



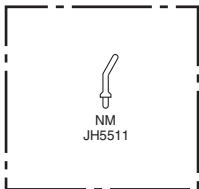
AB BIND DM CABLE ASSY (AWX9575)



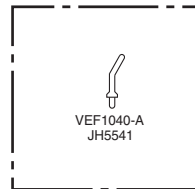
AC BIND R BACK ASSY (AWX9586)



AD BIND R FRONT ASSY (AWX9584)



AE BIND DISP FFC ASSY (AWX9668)



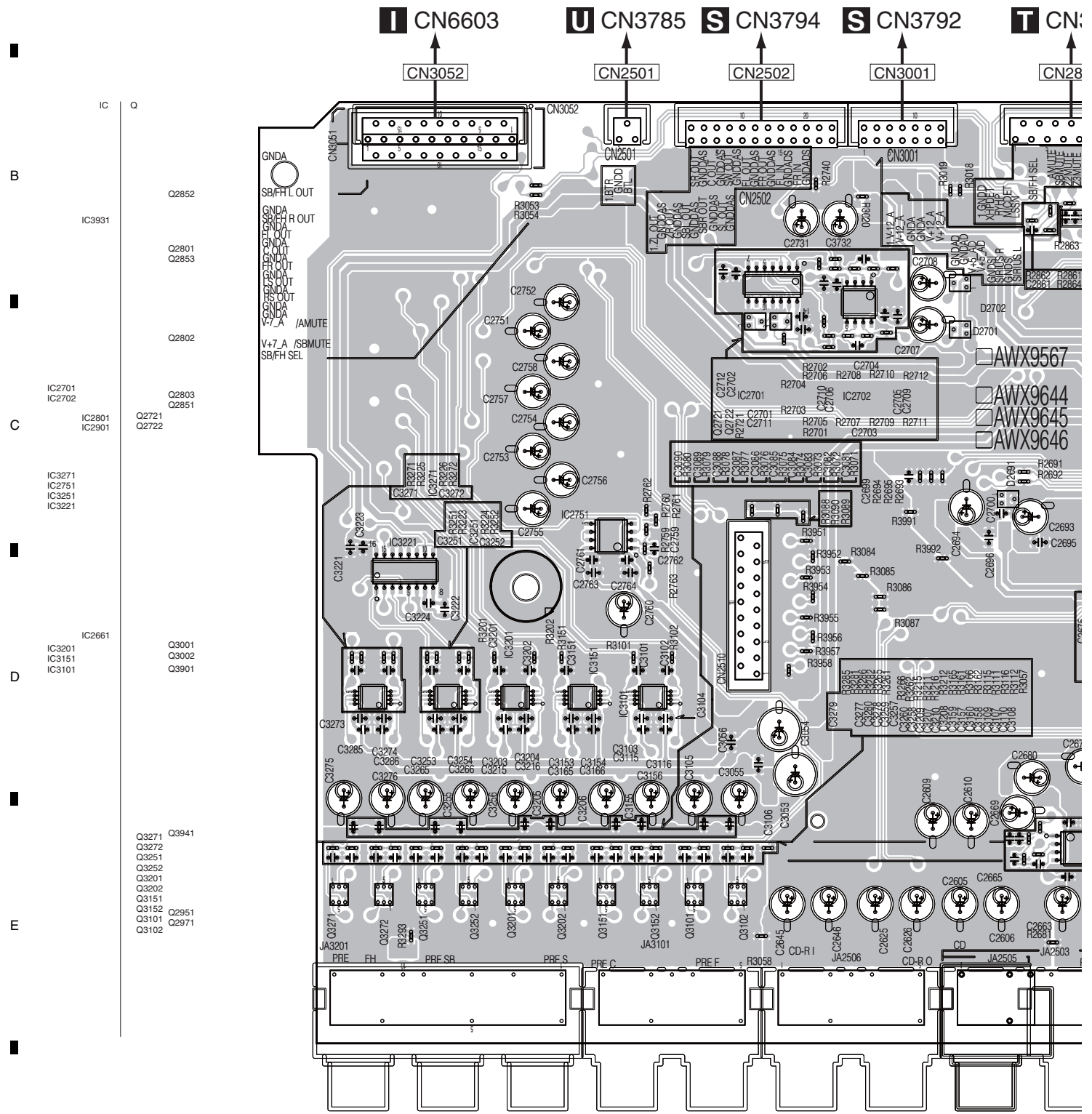
NOTE
1. NM : NO MOUNT

11. PCB CONNECTION DIAGRAM

11.1 AUDIO ASSY

SIDE A

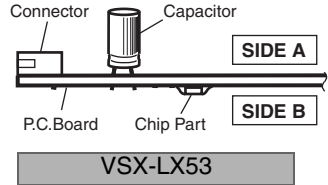
A AUDIO ASSY



NOTE FOR PCB DIAGRAMS :

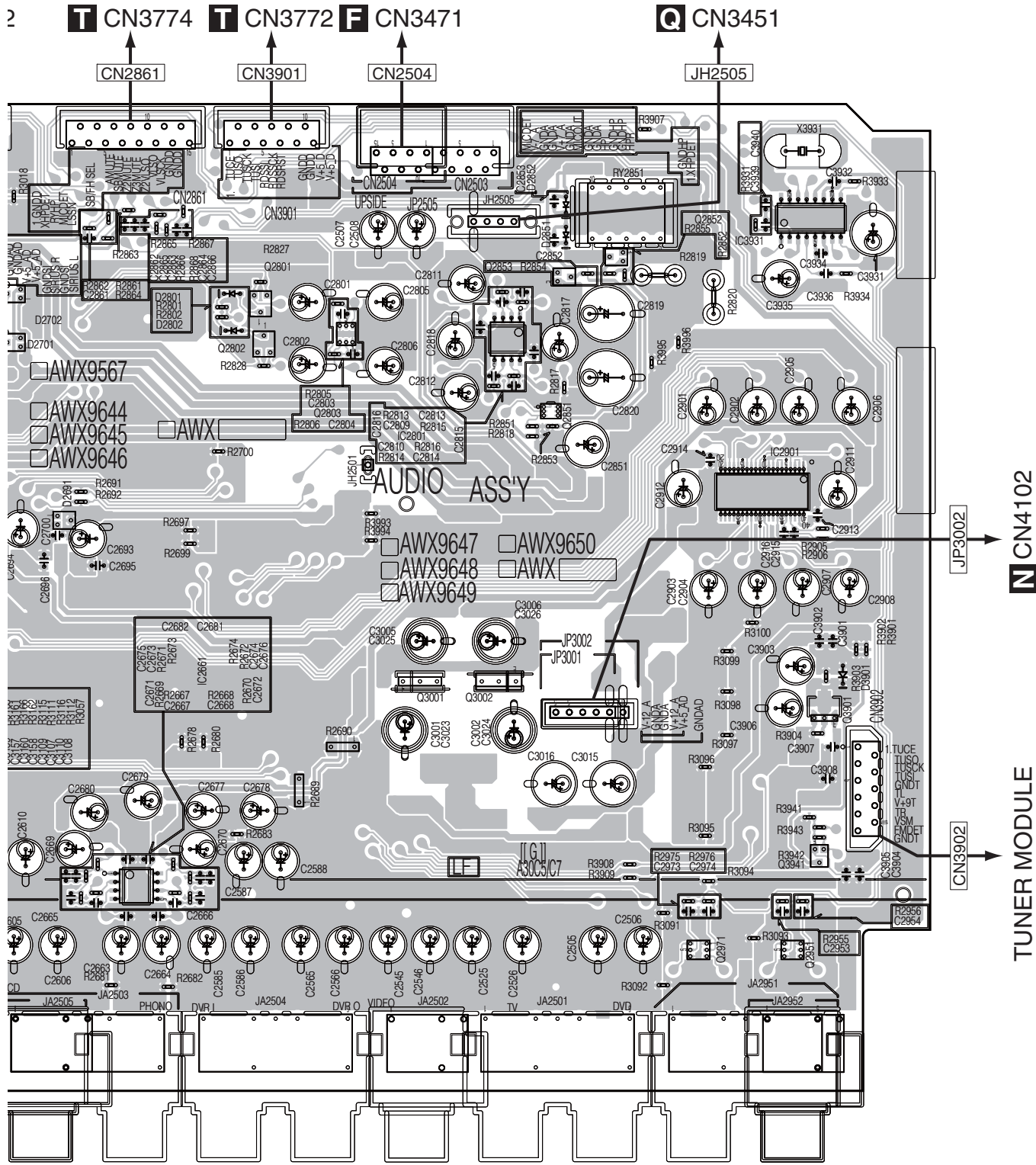
1. The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

2. View point of PCB diagrams.



A

F



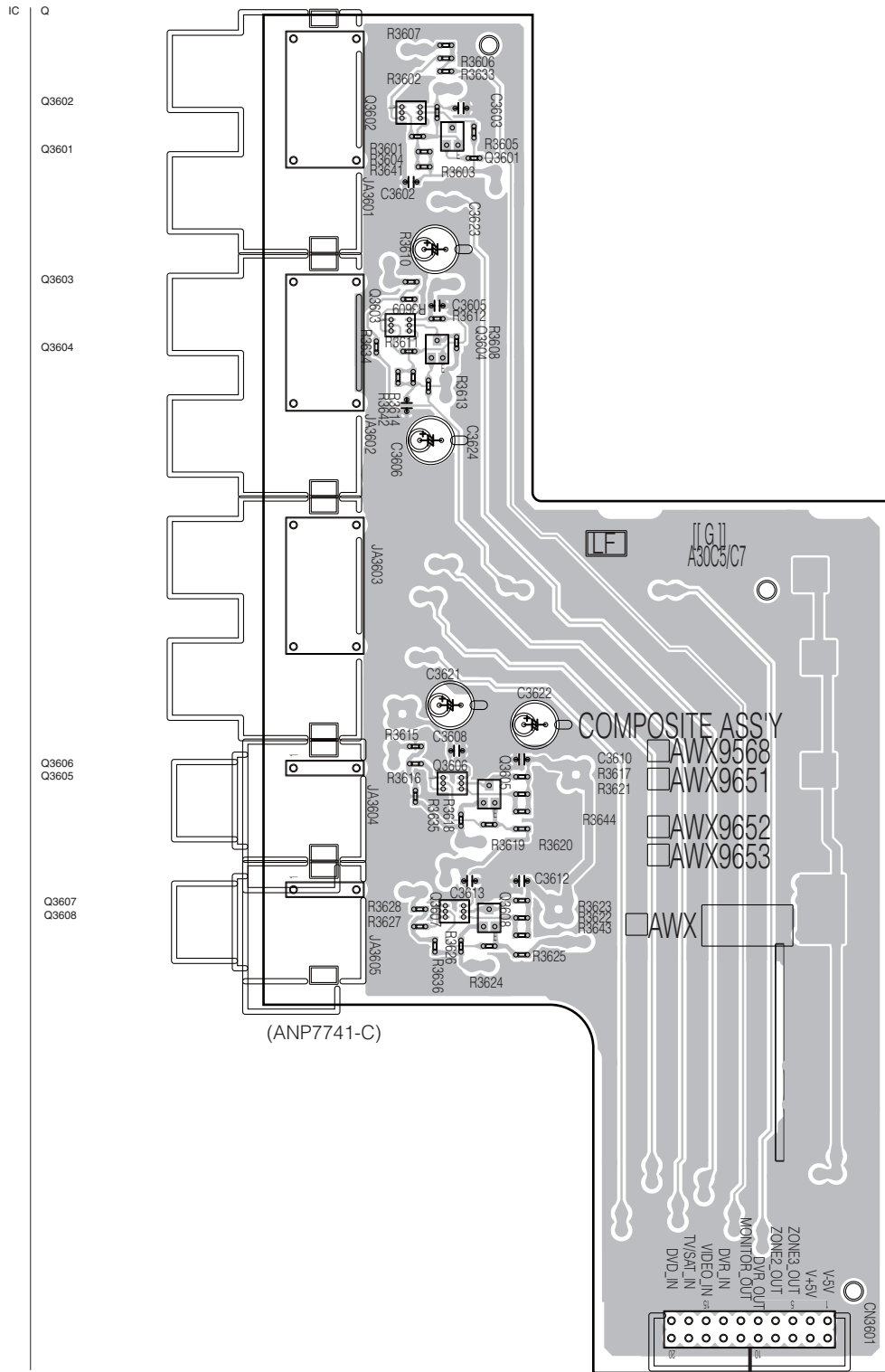
(ANP7741-C)

11.2 COMPOSITE ASSY

SIDE A

SIDE A

B COMPOSITE ASSY



- AWX9568
- AWX9651
- AWX9652
- AWX9653
- AWX

CN3601

D CN8303

B

B

SIDE B

SIDE B

B COMPOSITE ASSY

A

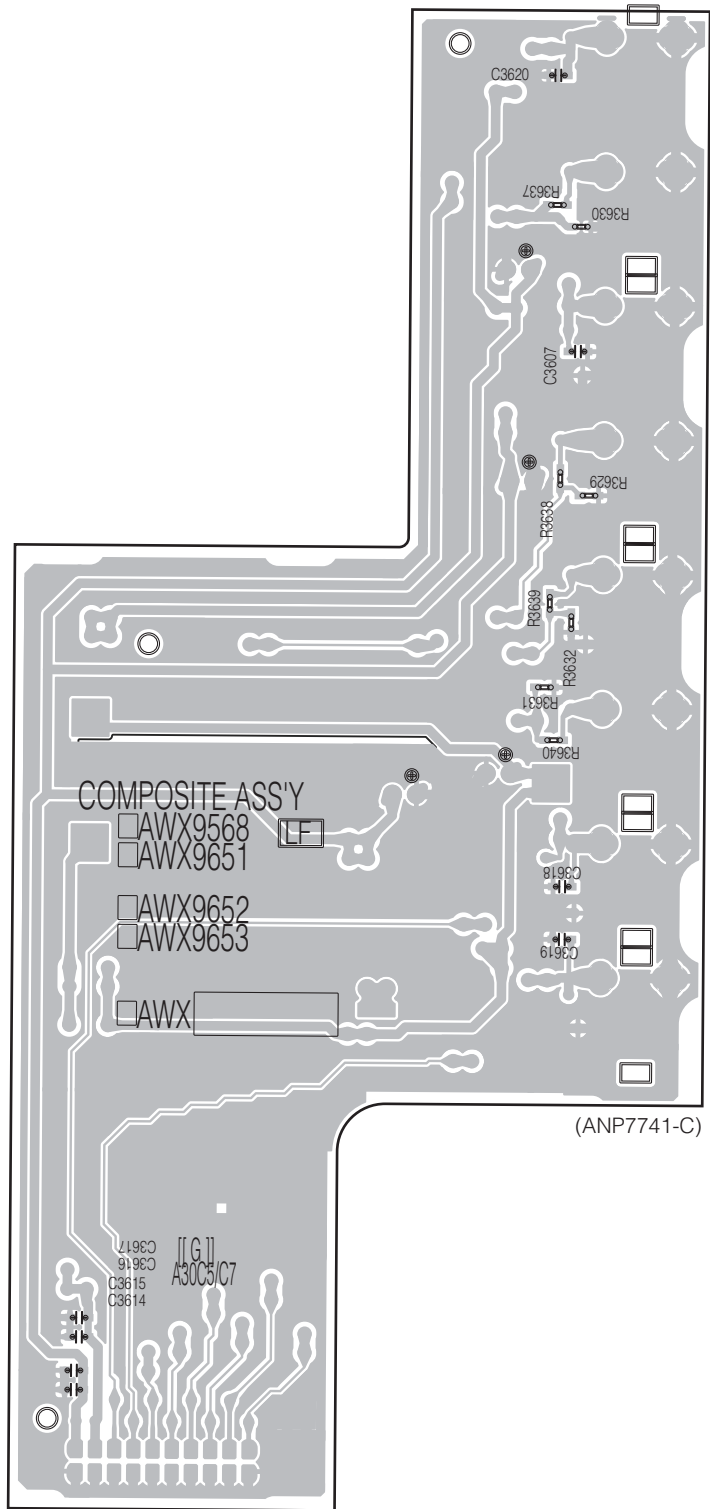
B

C

D

E

F



CN3601

B

B

11.3 DAC LOW ASSY

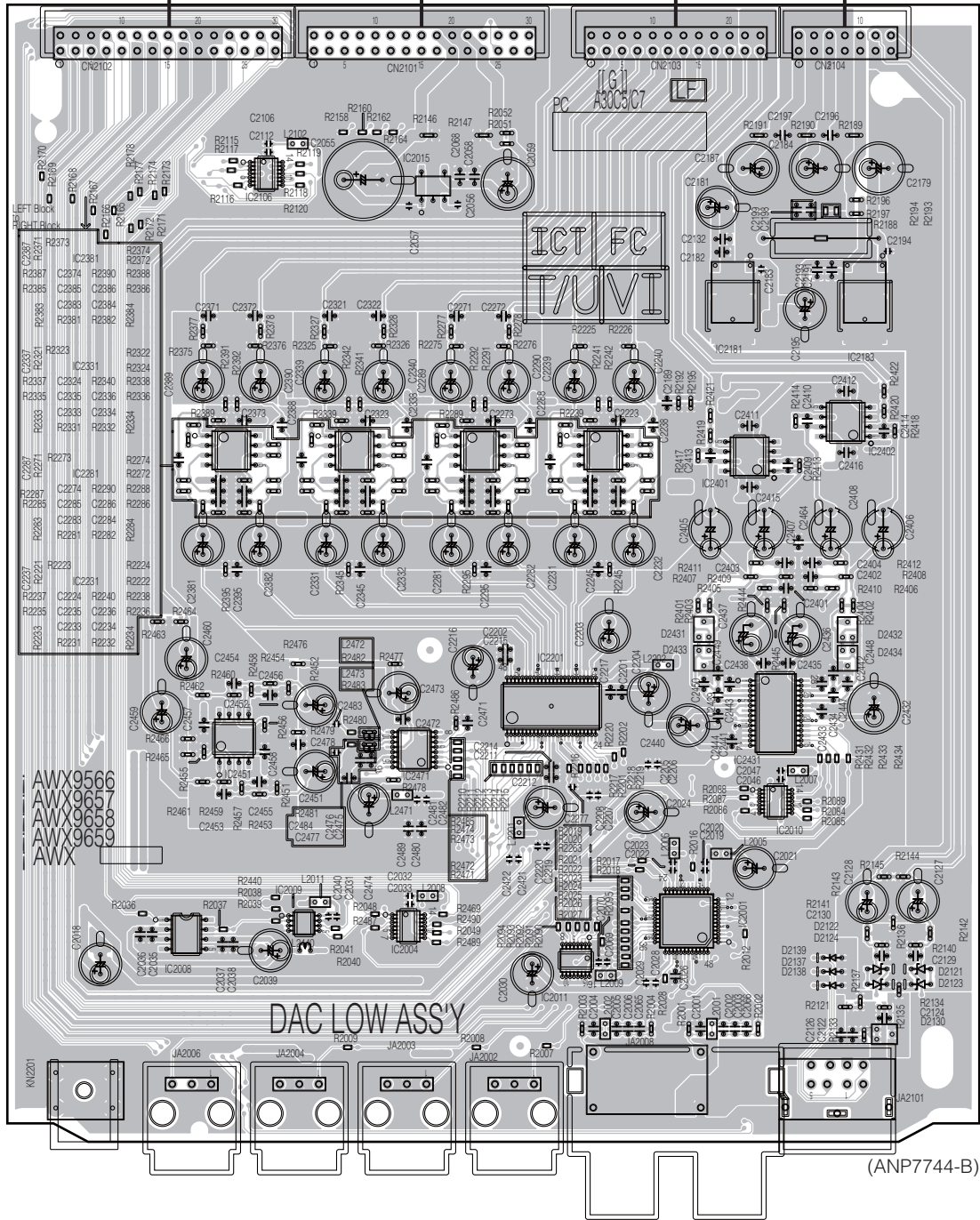
SIDE A

SIDE A

C DAC LOW ASSY

U CN3781 **U** CN3783 **S** CN3793 **S** CN3791

CN2102 CN2101 CN2103 CN2104



C

C

11.4 COMPONENT ASSY

SIDE A

SIDE A

D COMPONENT ASSY

A

B

C

D

E

F

E CN1502

E CN1501

B CN3601

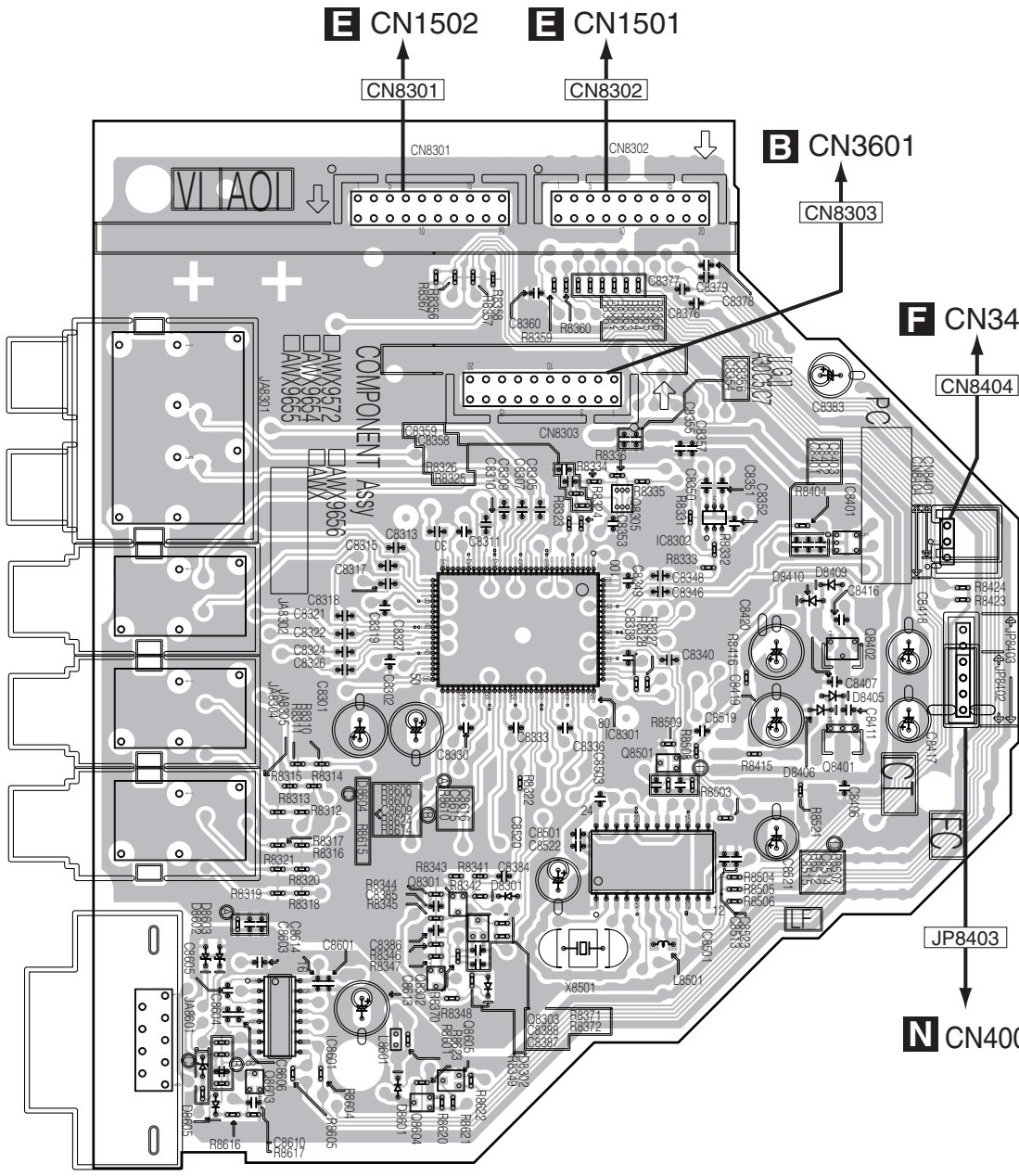
F CN3472

CN8404

N CN4002

IC Q

Q8305
IC8401
IC8302
IC8301
Q8402
Q8501
Q8401
IC8501
Q8301
Q8302
IC8601
Q8303
Q8605
Q8603
Q8604



(ANP7760-B)

D

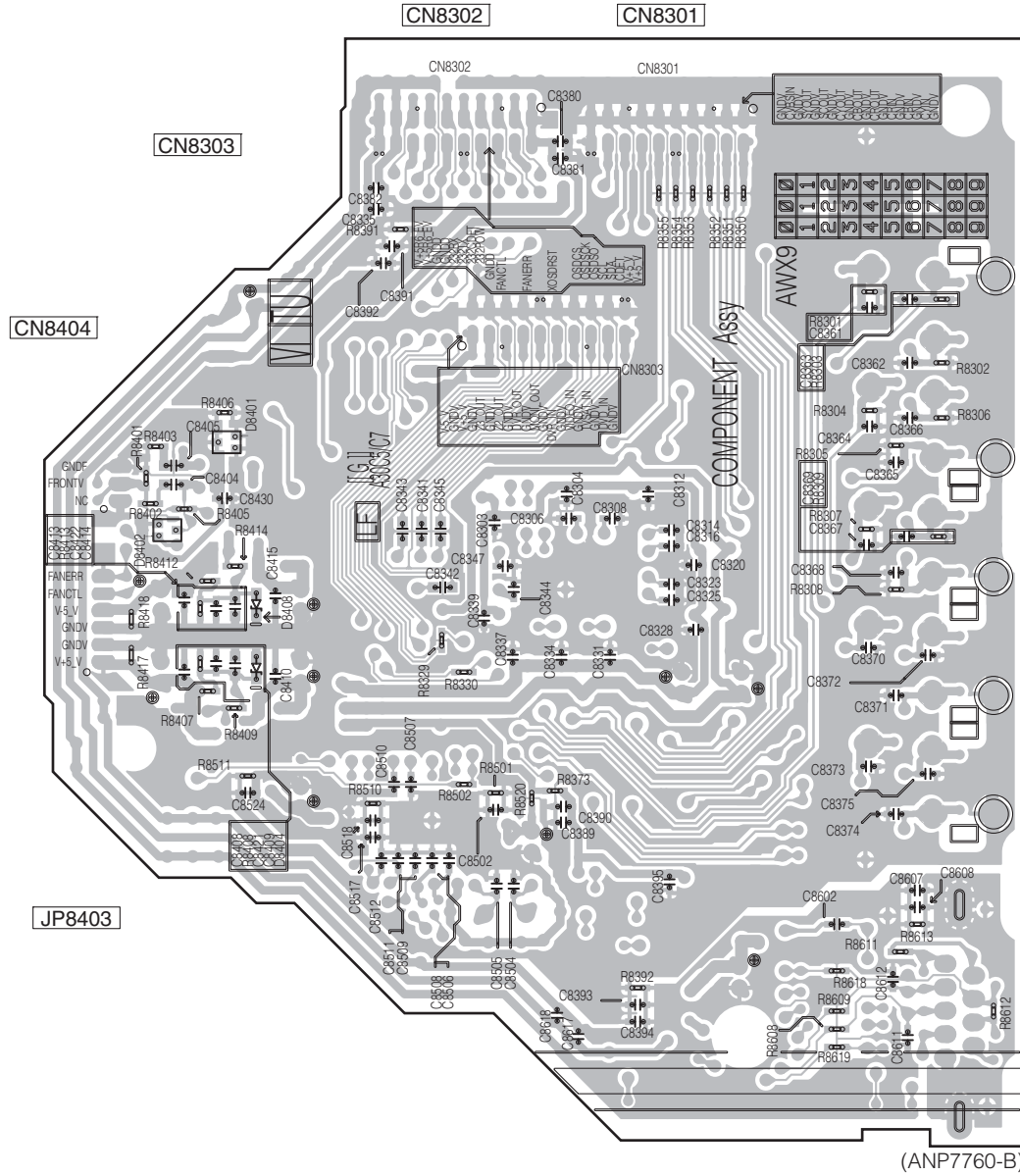
D

SIDE B

SIDE B

D COMPONENT ASSY

A



(ANP7760-B)

B

C

D

E

F

D

D

11.5 DIGITAL MAIN ASSY

SIDE A

E DIGITAL MAIN ASSY

A

B

C

D

E

F



1 2 3 4

T CN377

G JA7503

J CN3001

V CN7001

JA905

CN601

CN606

CN9304

R CN3361
R CN3362
D CN8302
D CN8301

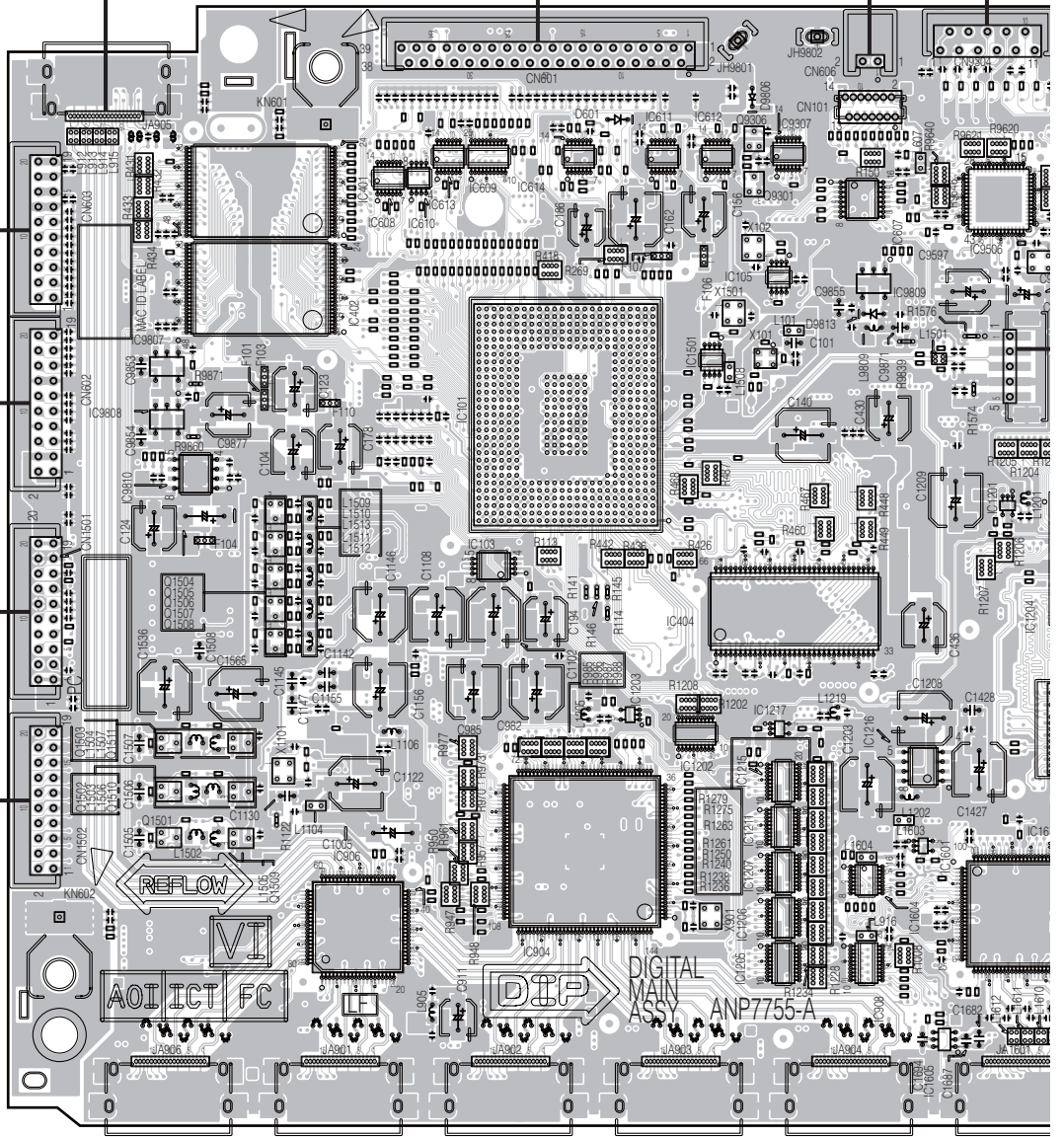
CN603

CN602

CN1501

CN1502

IC	Q
IC9019	Q605
IC611	Q606
IC9016	Q604
IC9015	
IC9307	
IC614	
IC9007	Q9306
IC9017	Q9301
IC9303	
IC9202	
IC609	
IC613	
IC608	
IC610	
IC9018	Q602
IC9305	
IC9506	
IC105	
IC9809	
IC9304	
IC9302	
IC402	
IC1501	
IC101	
IC9005	
IC9807	
IC9808	
IC1201	
IC9806	
IC9013	
IC9006	
IC9304	
IC9011	
IC9810	
IC103	
IC9804	
IC9808	
IC9808	
IC9003	
IC1204	Q1504
IC1203	Q1505
IC1217	Q1506
IC1218	Q1507
IC1219	Q1508
IC404	Q9802
IC1210	
IC1216	Q9801
IC1202	
IC1815	Q1503
IC1816	Q1511
IC9503	Q1502
IC1214	Q1510
IC1213	
IC1211	
IC1808	
IC1809	
IC1603	
IC1810	
IC9301	
IC1507	
IC906	
IC1604	
IC1206	
IC904	
IC1814	Q1501
IC1811	Q1509
IC1803	
IC1801	
IC9310	
IC1205	
IC1605	
IC1606	
IC9812	
IC9803	
IC9805	



1 2 3 4

SIDE A

A

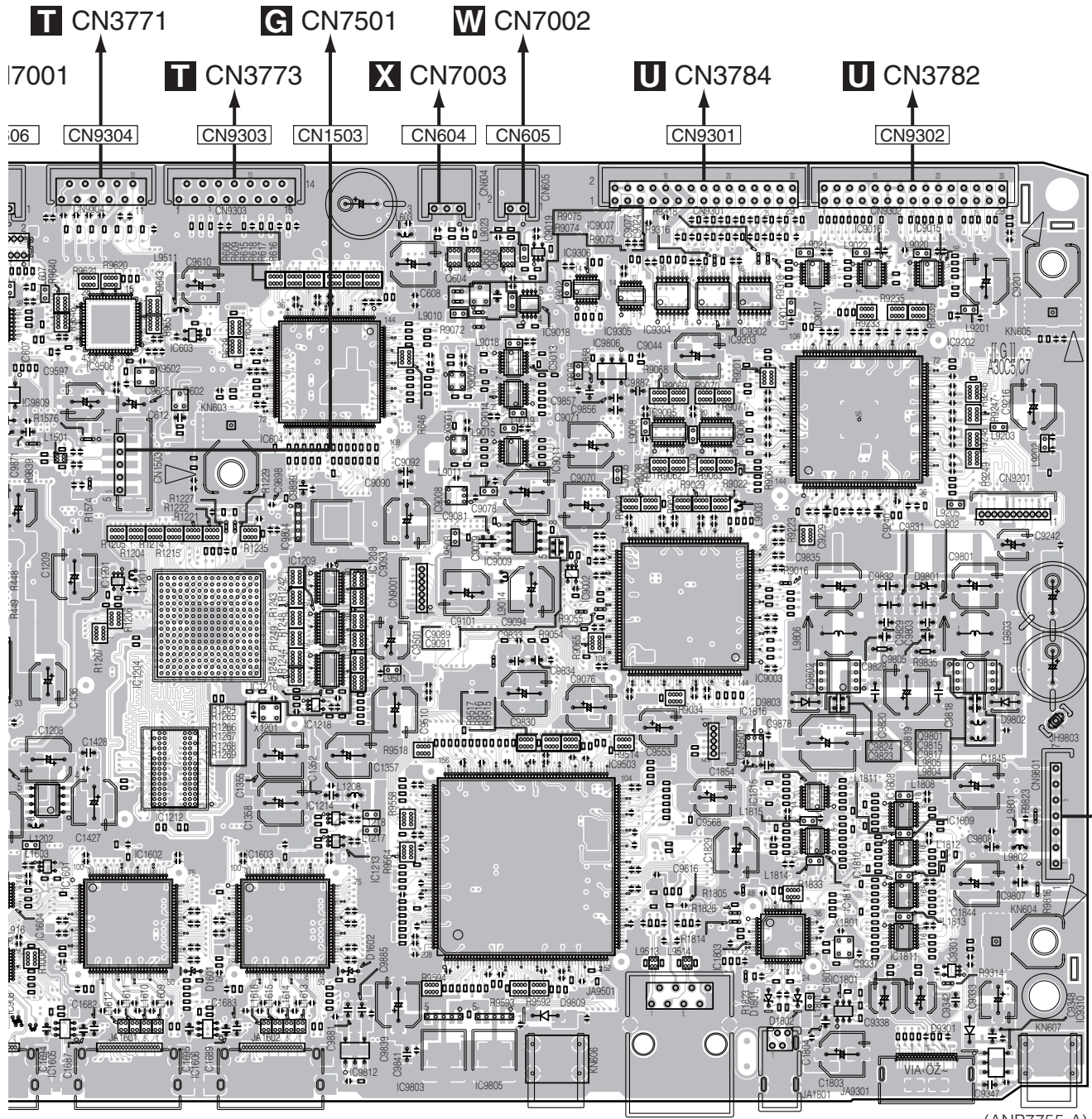
B

C

D

E

F



VSX-LX53

E

SIDE B

DIGITAL MAIN ASSY

A

B

C

D

E

F

IC Q

CN9302

CN9301

CN605

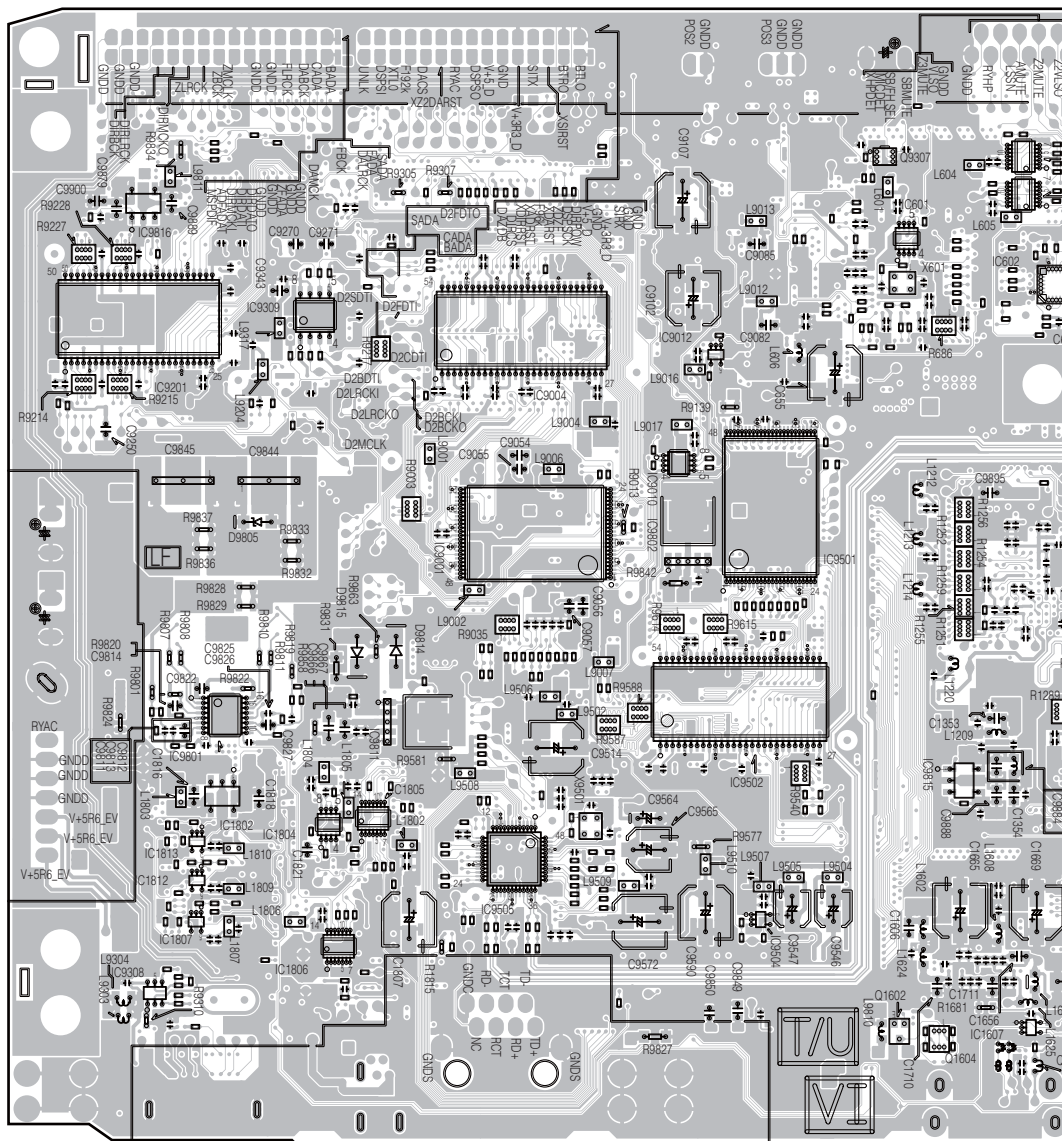
CN604

CN1503

CN930

- Q9304
- Q9307
- Q603
- Q608
- Q9303
- Q9302
- Q607
- Q601
- Q102
- Q101
- Q1101
- Q104
- Q904
- Q902
- Q901
- Q903
- Q1602
- Q1603
- Q1604
- Q1601

- IC605
- IC606
- IC601
- IC9816
- IC602
- IC9309
- IC9012
- IC9201
- IC9004
- IC1502
- IC102
- IC9010
- IC9802
- IC9501
- IC403
- IC9001
- IC9811
- IC9801
- IC9502
- IC1102
- IC1805
- IC9815
- IC1802
- IC1804
- IC1813
- IC1812
- IC901
- IC9505
- IC909
- IC9504
- IC1806
- IC1807
- IC1607
- IC9306
- IC9813
- IC903
- IC907



SIDE B

A

B

C

D

E

F

CN1503

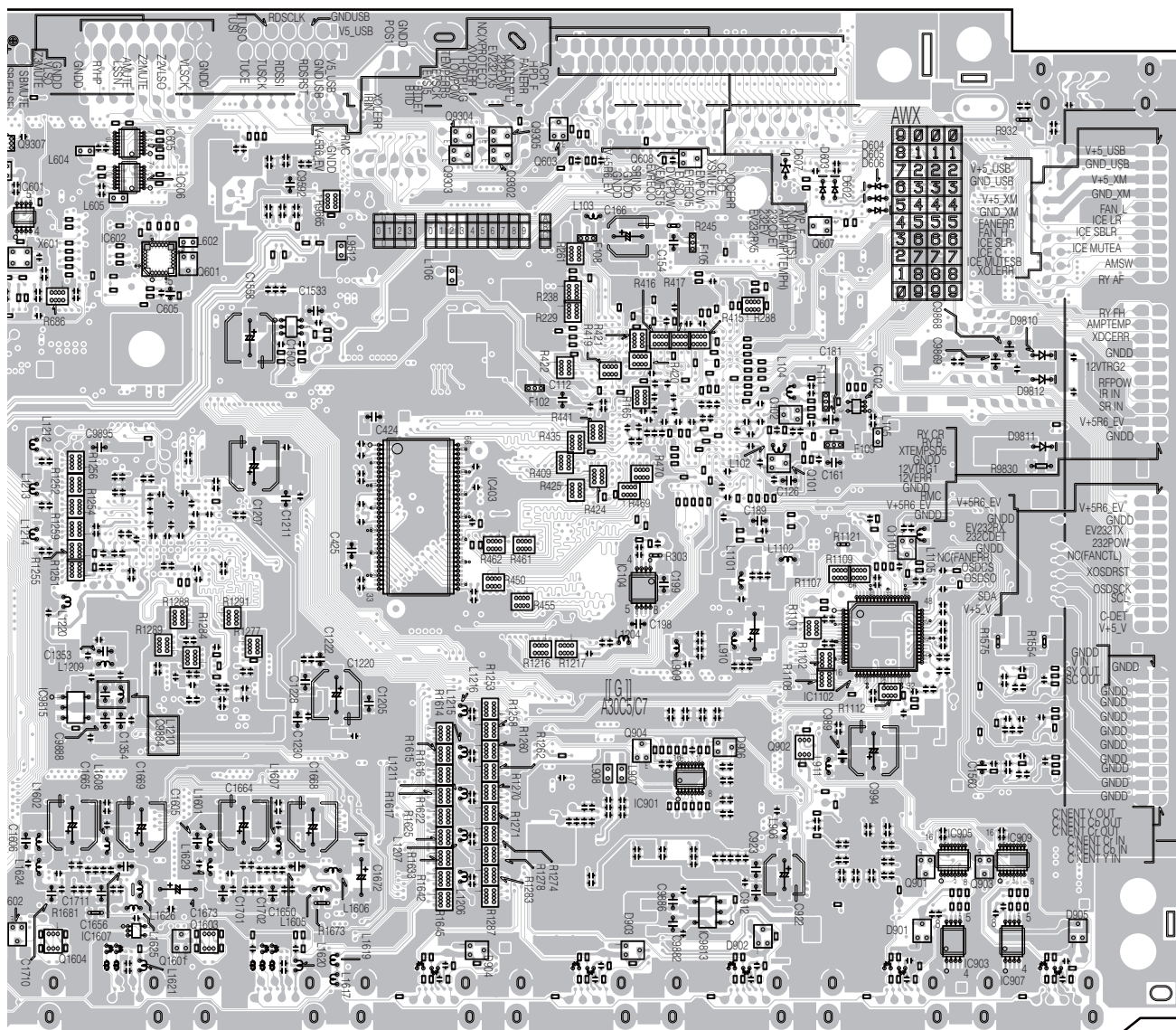
CN9303

CN9304

CN606

CN601

JA905



(ANP7755-A)

VSX-LX53

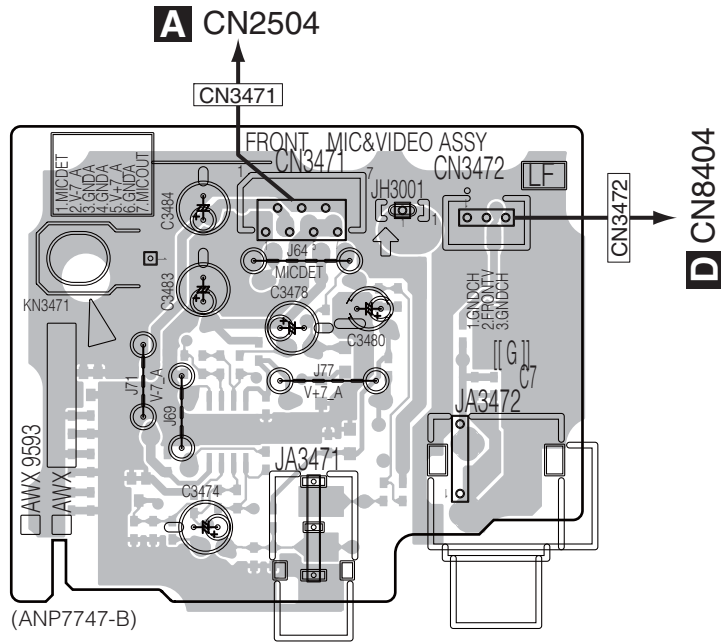


11.6 FRONT MIC&VIDEO and FRONT HDMI USB ASSYS

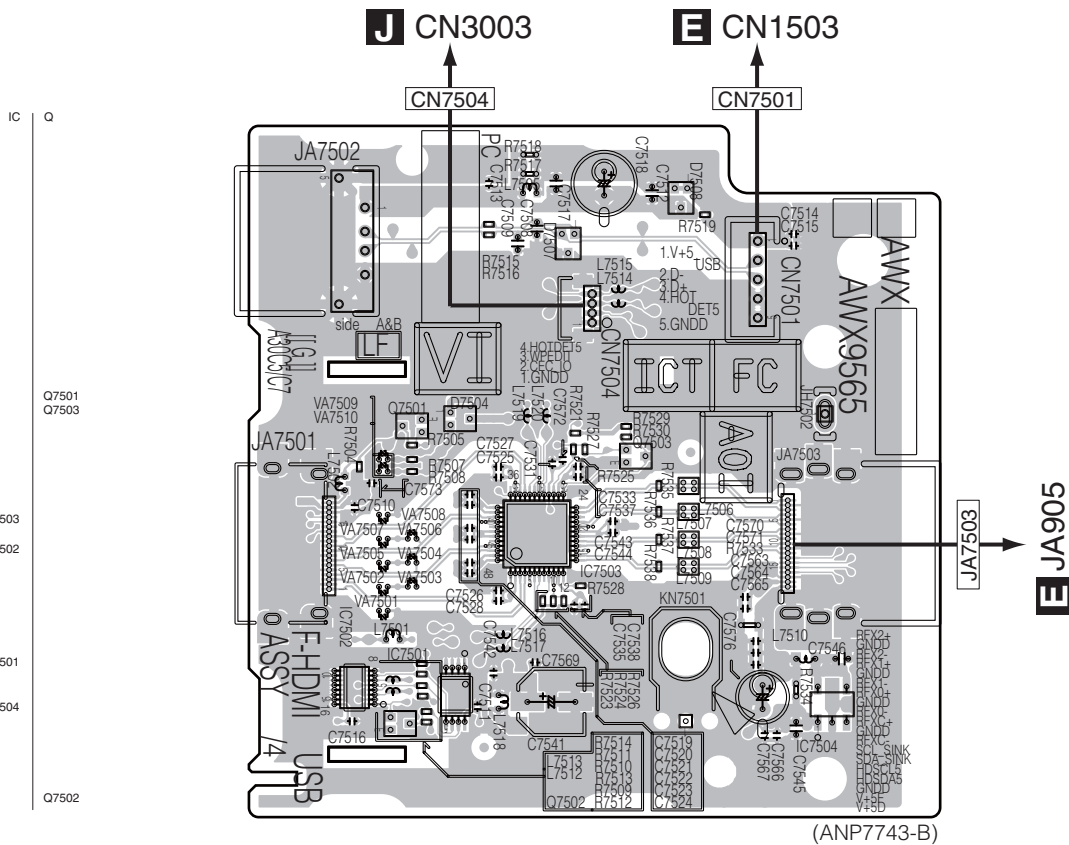
SIDE A

SIDE A

F FRONT MIC&VIDEO ASSY



G FRONT HDMI USB ASSY



F G

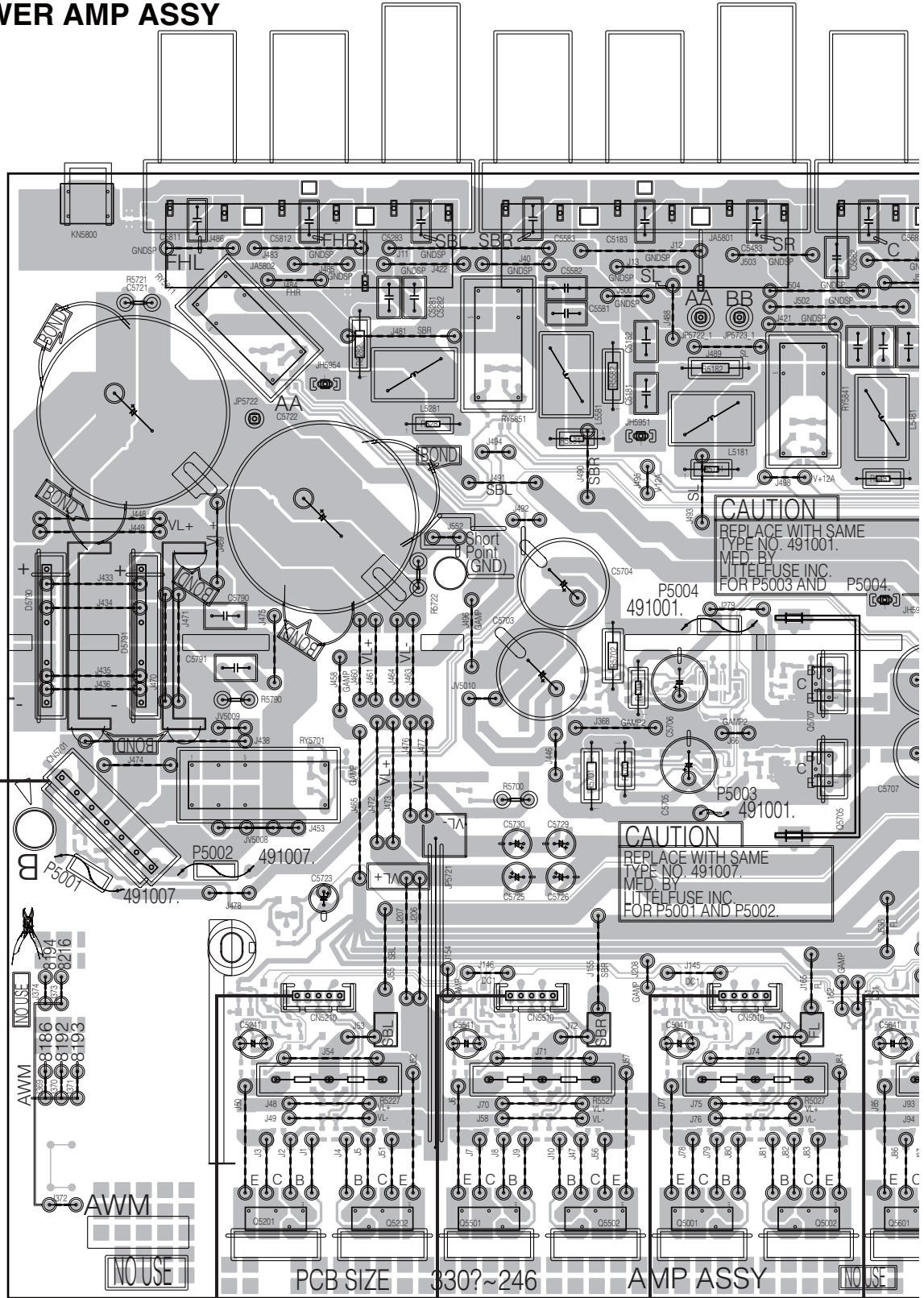
F G

11.7 POWER AMP ASSY

SIDE A

POWER AMP ASSY

MAIN TRANS
POWER AMP



- Q5201 Q5602
- Q5202 Q5301
- Q5501 Q5302
- Q5502 Q5101
- Q5001 Q5102
- Q5002 Q5401
- Q5601 Q5402



SIDE B

POWER AMP ASSY

A

B

C

D

E

F

IC Q

Q5922
Q5921
Q5865
Q5864

Q5811

Q5953
Q5954
Q5957
Q5951

Q5851

Q5955
Q5831
Q5956
Q5952
Q5958
Q5821
Q5971
Q5975
Q5972
Q5973

Q5974

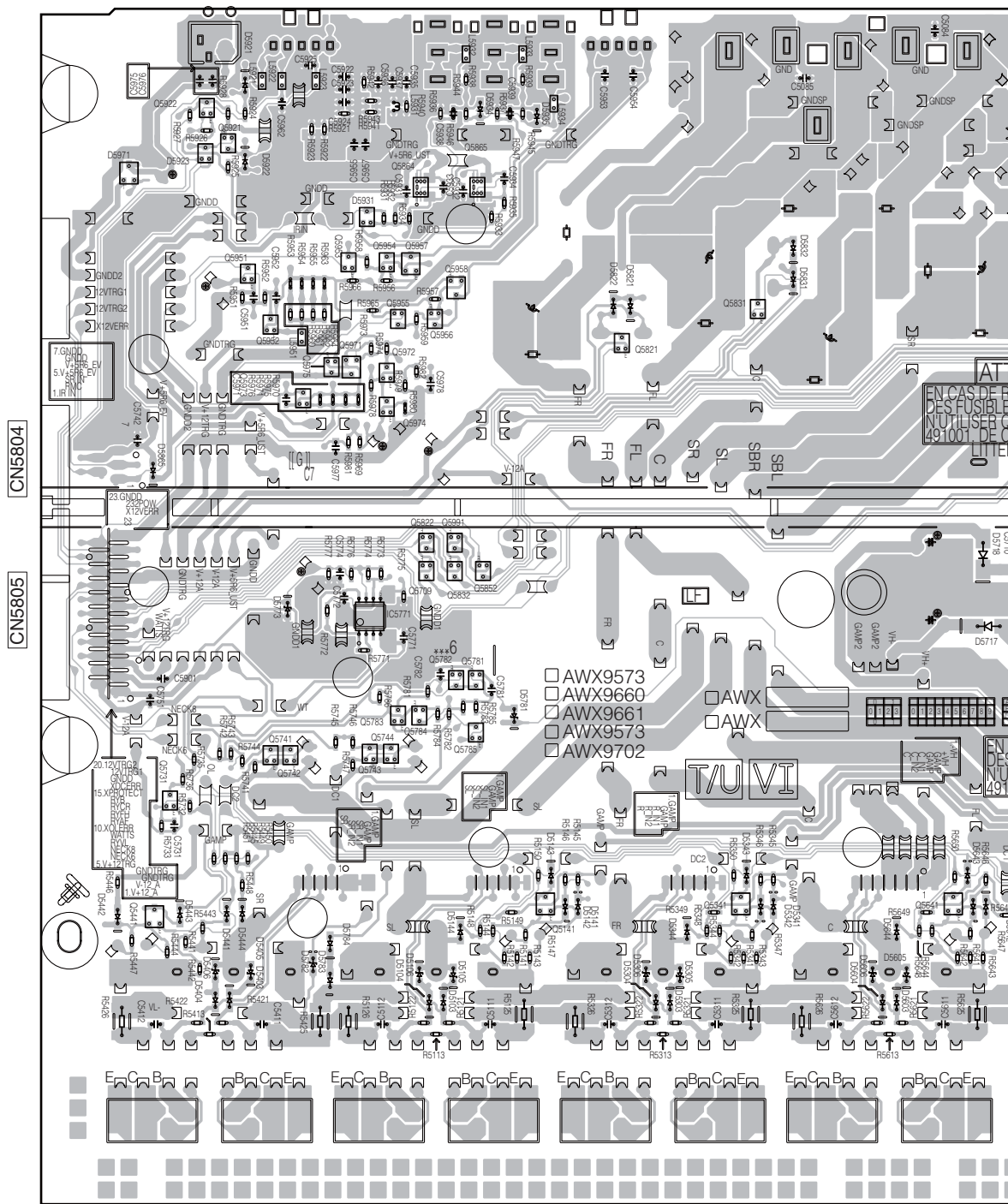
Q5822 Q5708
Q5991 Q5703
Q5852 Q5702
Q5832 Q5706
Q5709 Q5701
Q5782 Q5700

Q5781
Q5783
Q5784
Q5785
Q5741
Q5744
Q5742

Q5743

Q5731

Q5441 Q5041
Q5341 Q5041
Q5641 Q5541
Q5141 Q5241



CN5804

CN5805

CN5410

CN5110

CN5310

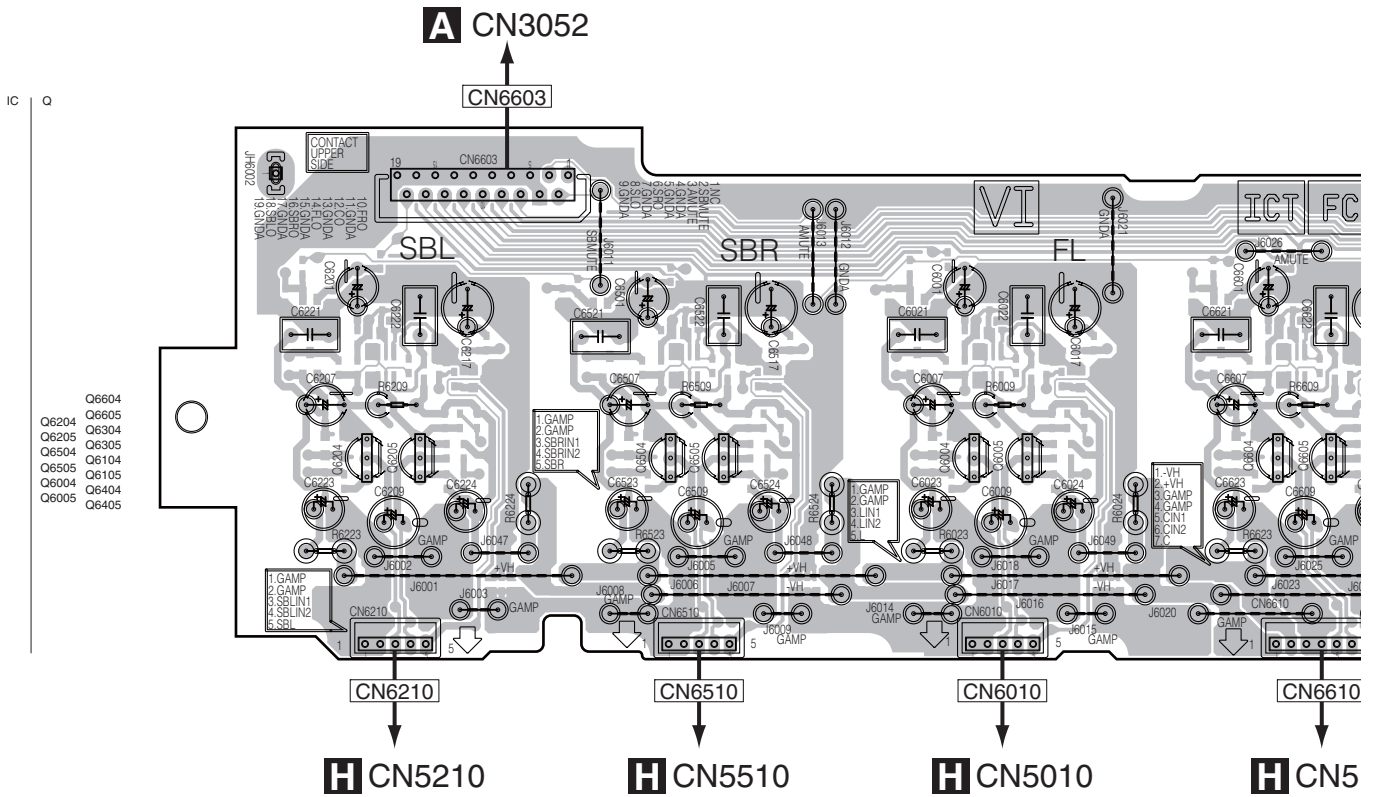
CN5



11.8 PRESTAGE ASSY

SIDE A

PRESTAGE ASSY



SIDE A

A

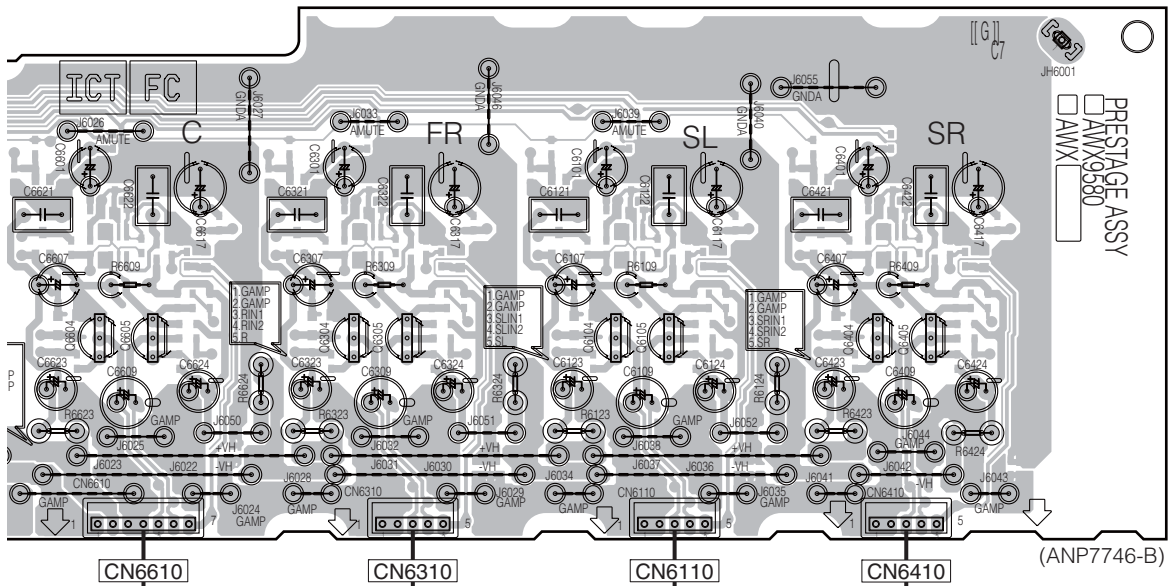
B

C

D

E

F



H CN5610

H CN5310

H CN5110

H CN5410



SIDE B

A

PRESTAGE ASSY

B

C

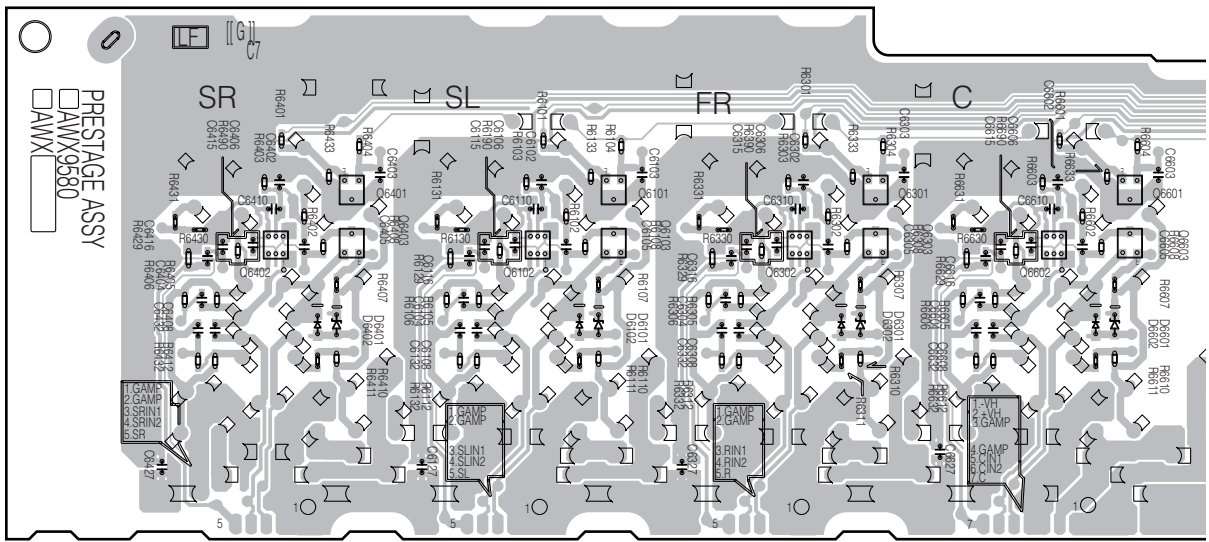
D

E

F

IC Q

- Q6001
- Q6101
- Q6401
- Q6103
- Q6403
- Q6102
- Q6402
- Q6002
- Q6201
- Q6501
- Q6203
- Q6503
- Q6202
- Q6502
- Q6302



CN6410

CN6110

CN6310

CN6610

SIDE B

A

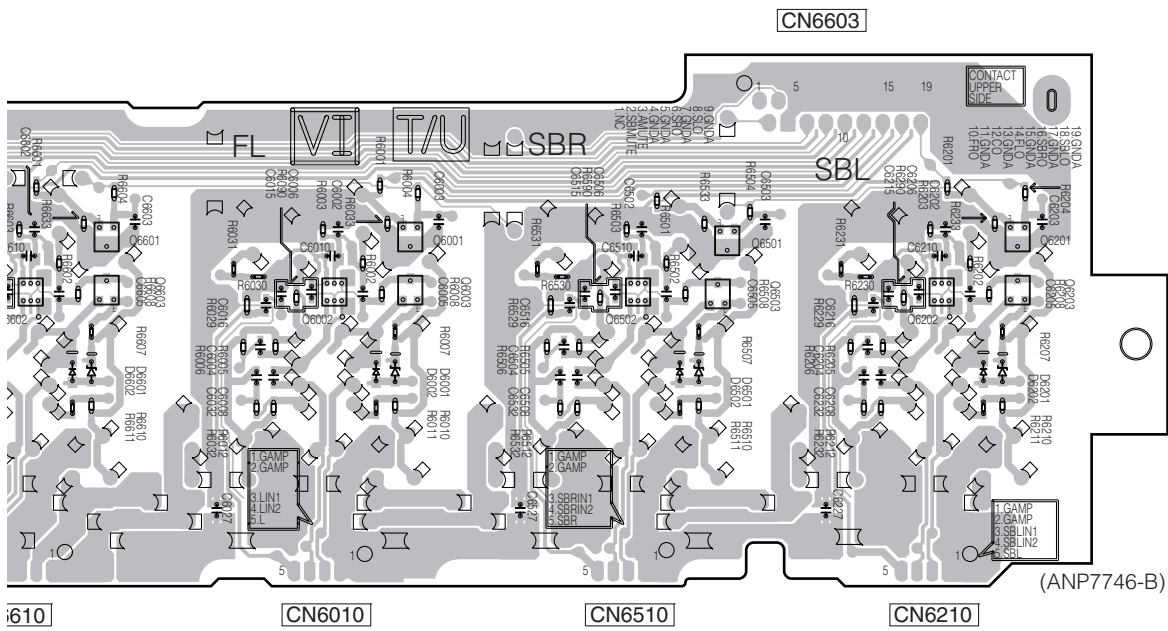
B

C

D

E

F



(ANP7746-B)

SIDE B

A

J DISPLAY ASSY

B

C

D

E

F

IC Q

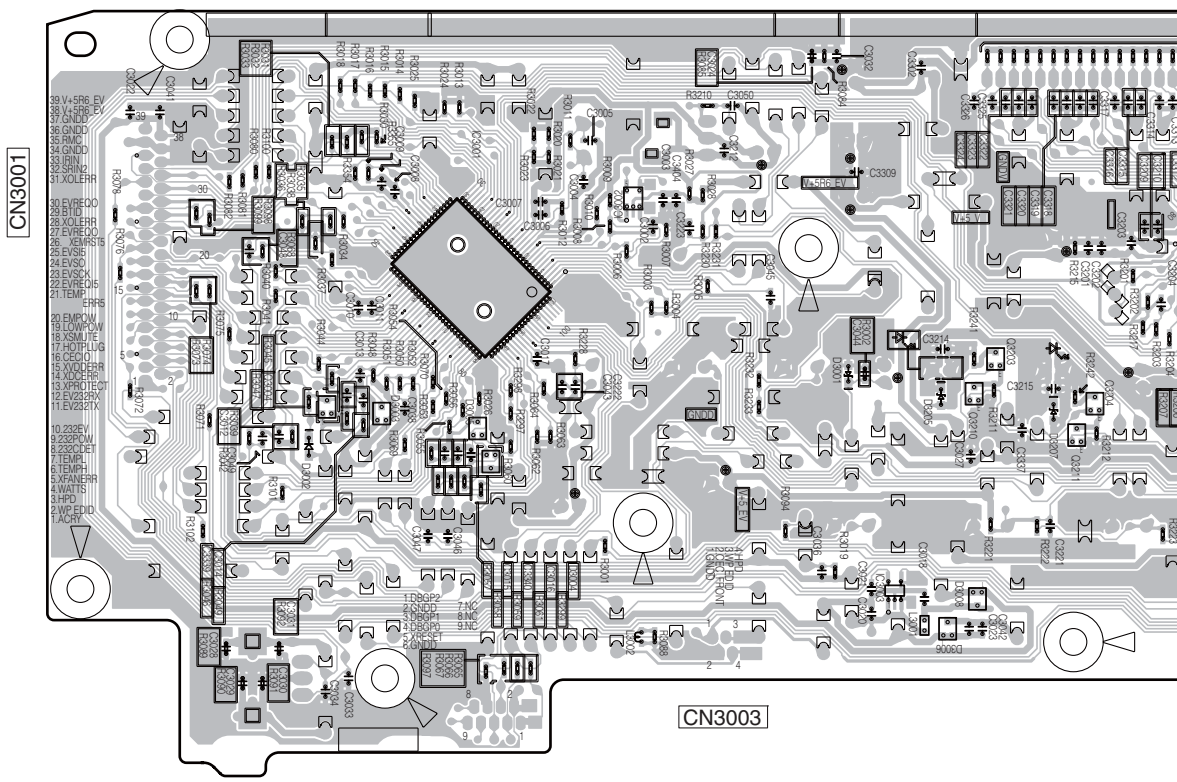
IC3001

IC3002

IC3201

IC3003

- Q3004 Q3208
- Q3203 Q3209
- Q3204 Q3207
- Q3210 Q3213
- Q3211 Q3206
- Q3212 Q3205



J

SIDE B

A

B

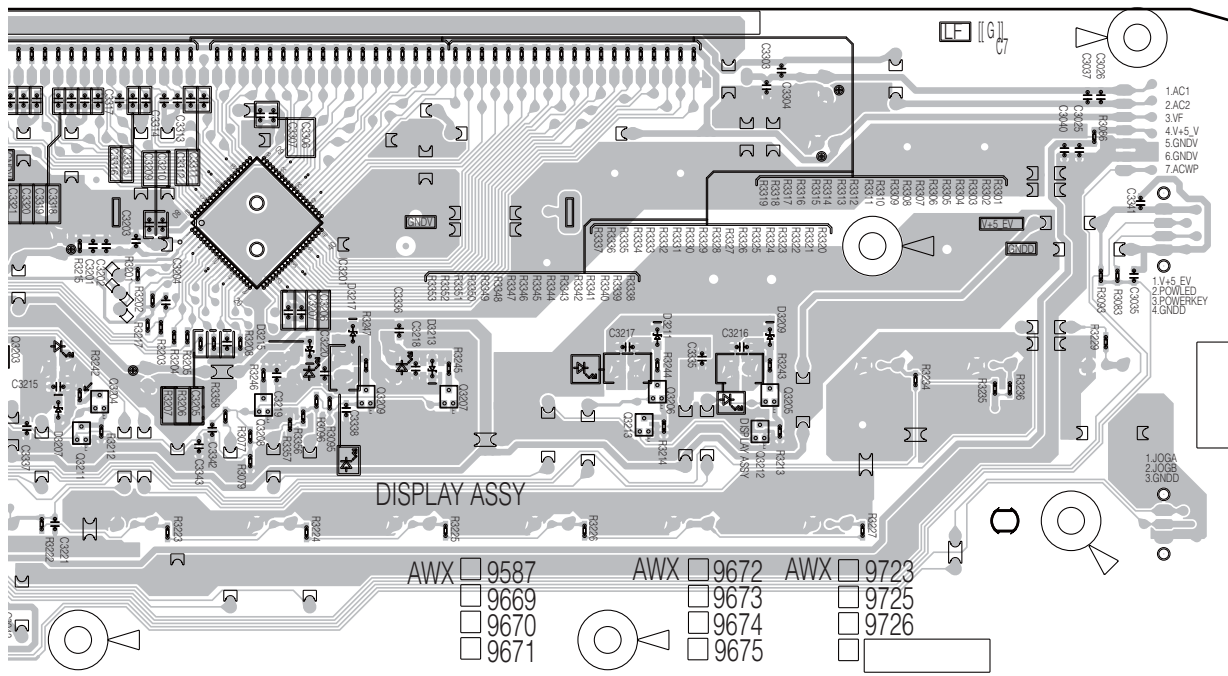
C

D

E

F

J



(ANP7747-B)

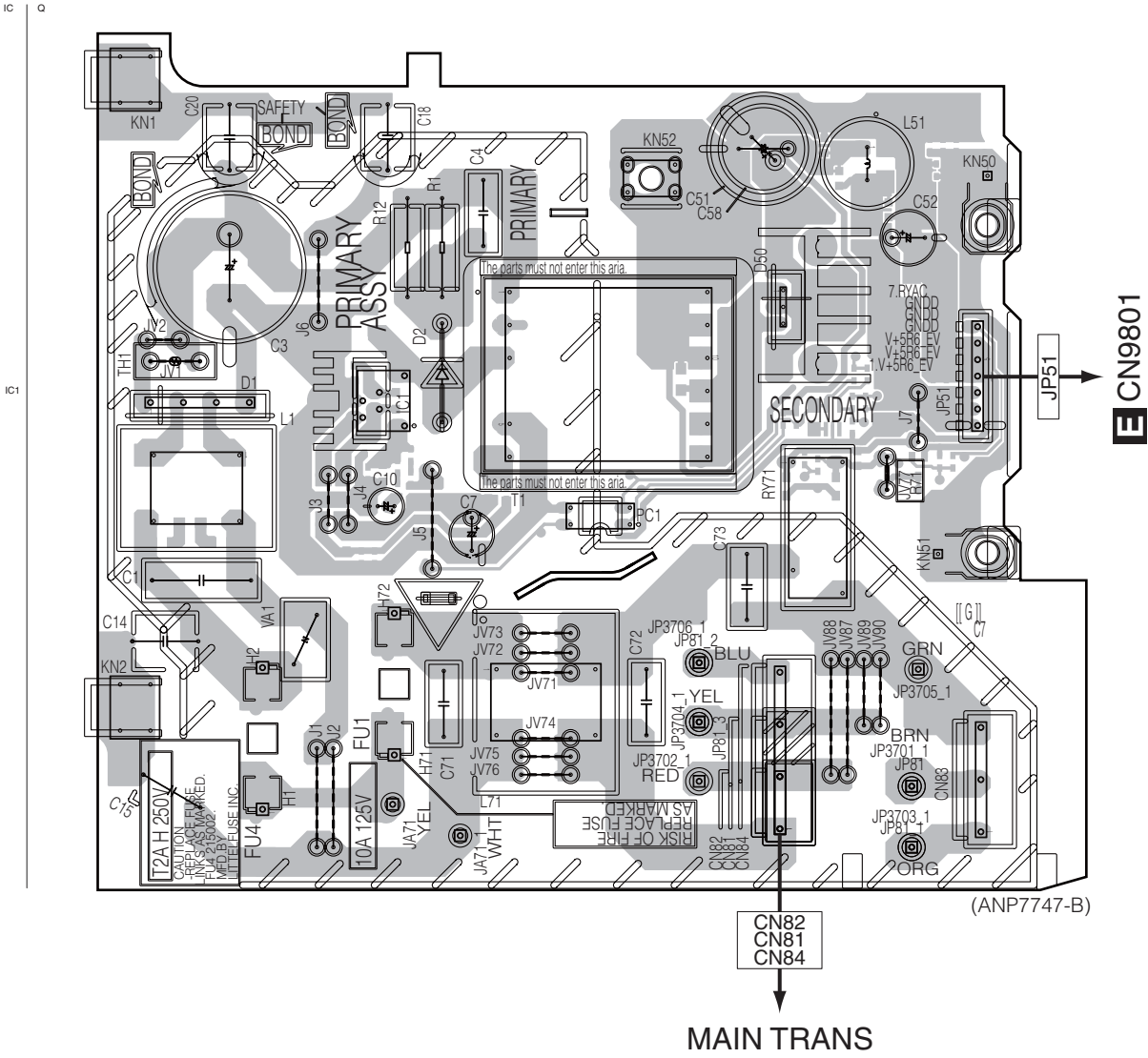
JH3003

11.10 PRIMARY ASSY

SIDE A

SIDE A

K PRIMARY ASSY



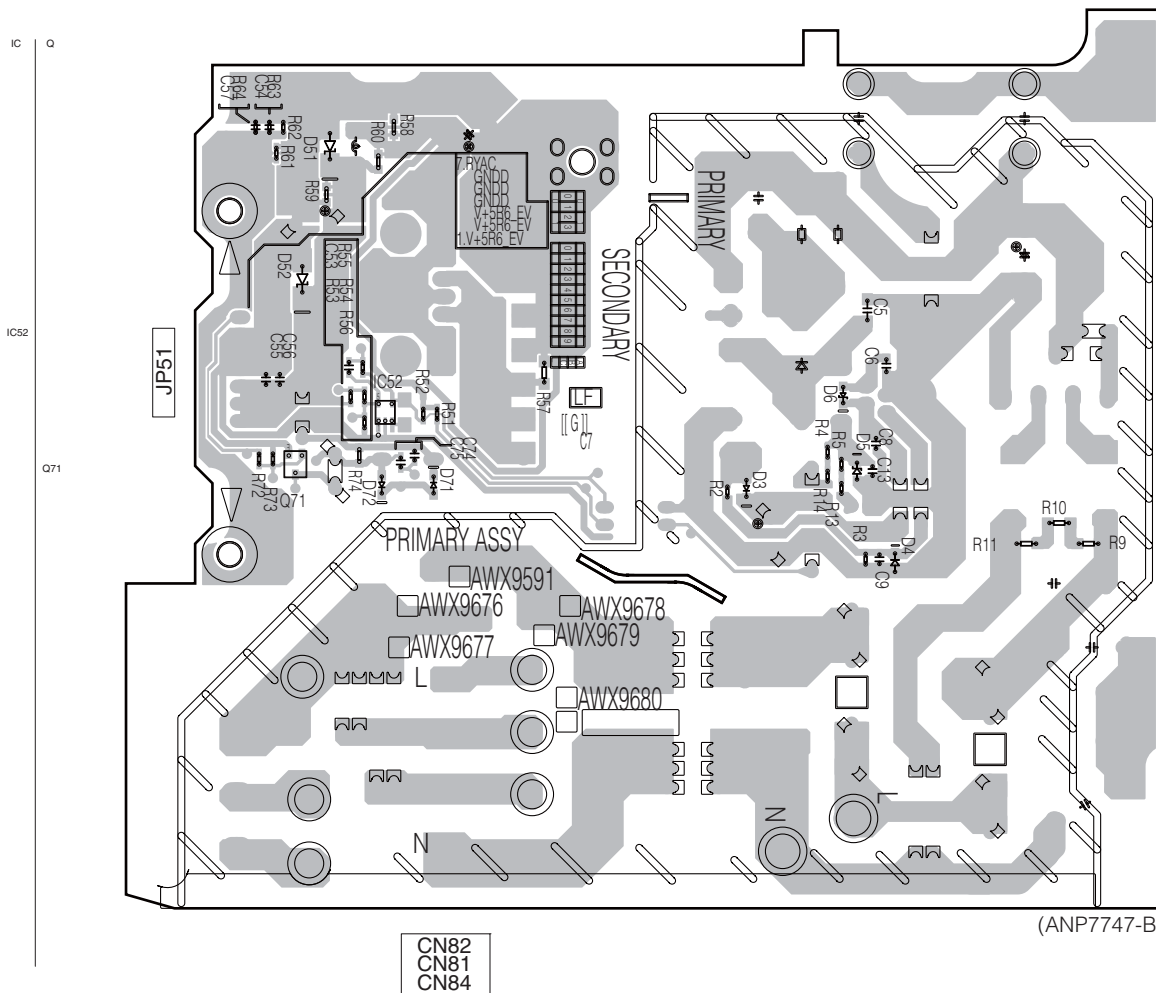
K

K

SIDE B

SIDE B

K PRIMARY ASSY

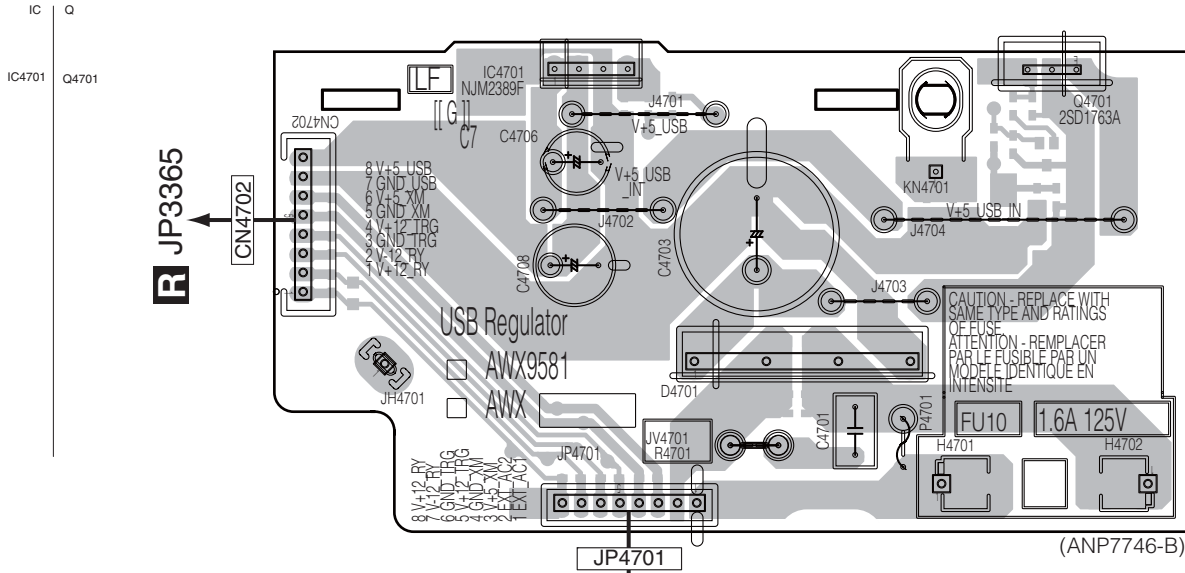


11.11 USB REGULATOR and XM REGULATOR ASSYS

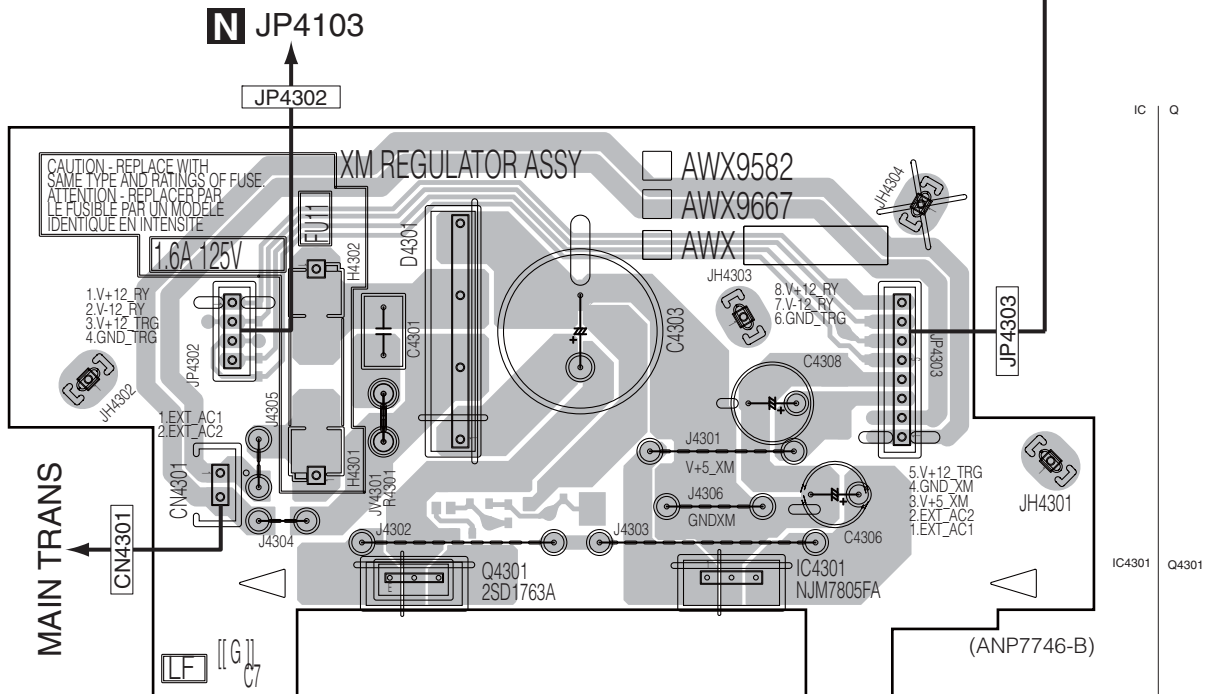
SIDE A

SIDE A

L USB REGULATOR ASSY



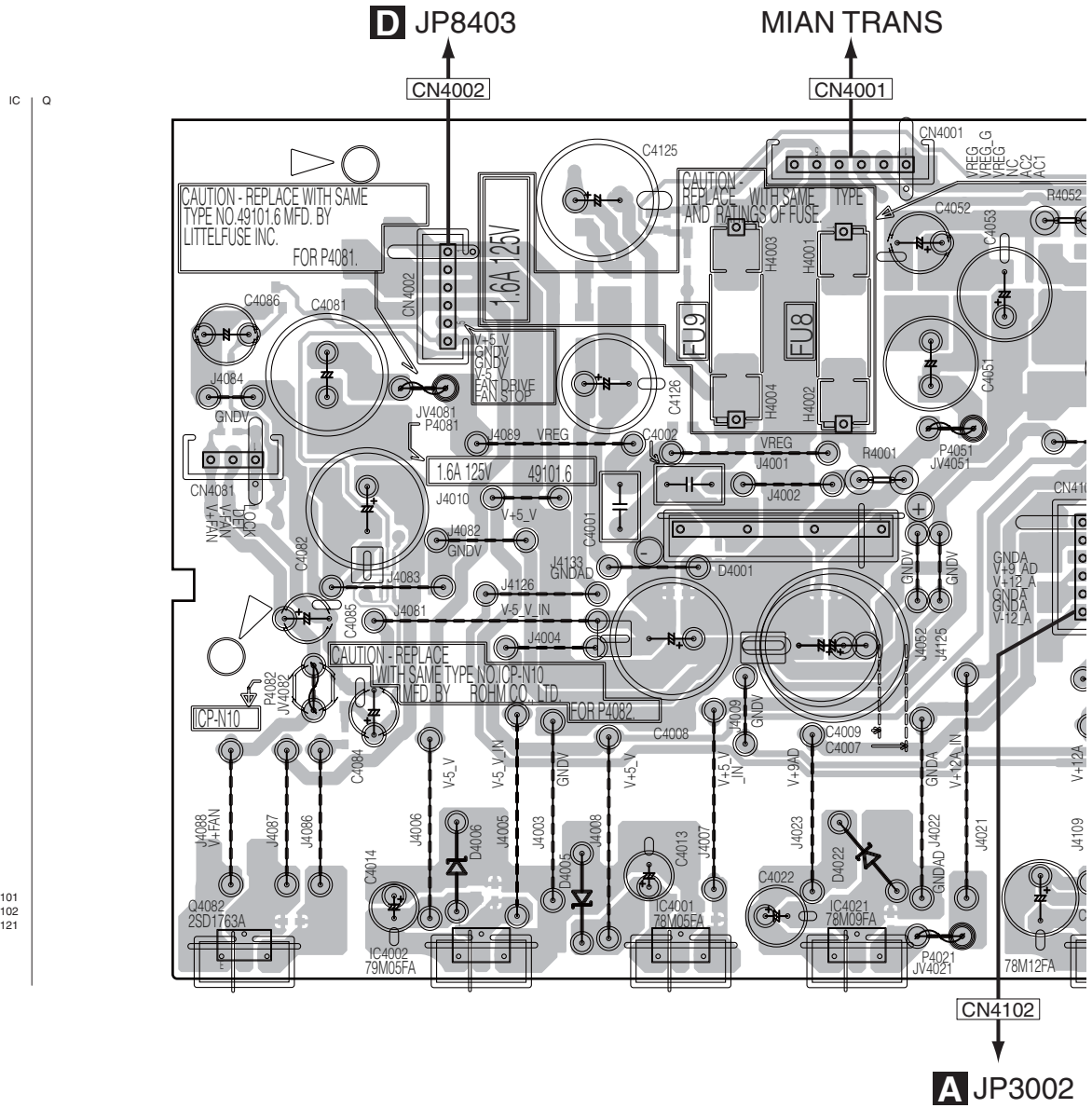
M XM REGULATOR ASSY



11.12 REGULATOR ASSY

SIDE A

N REGULATOR ASSY



SIDE B

N REGULATOR ASSY

A

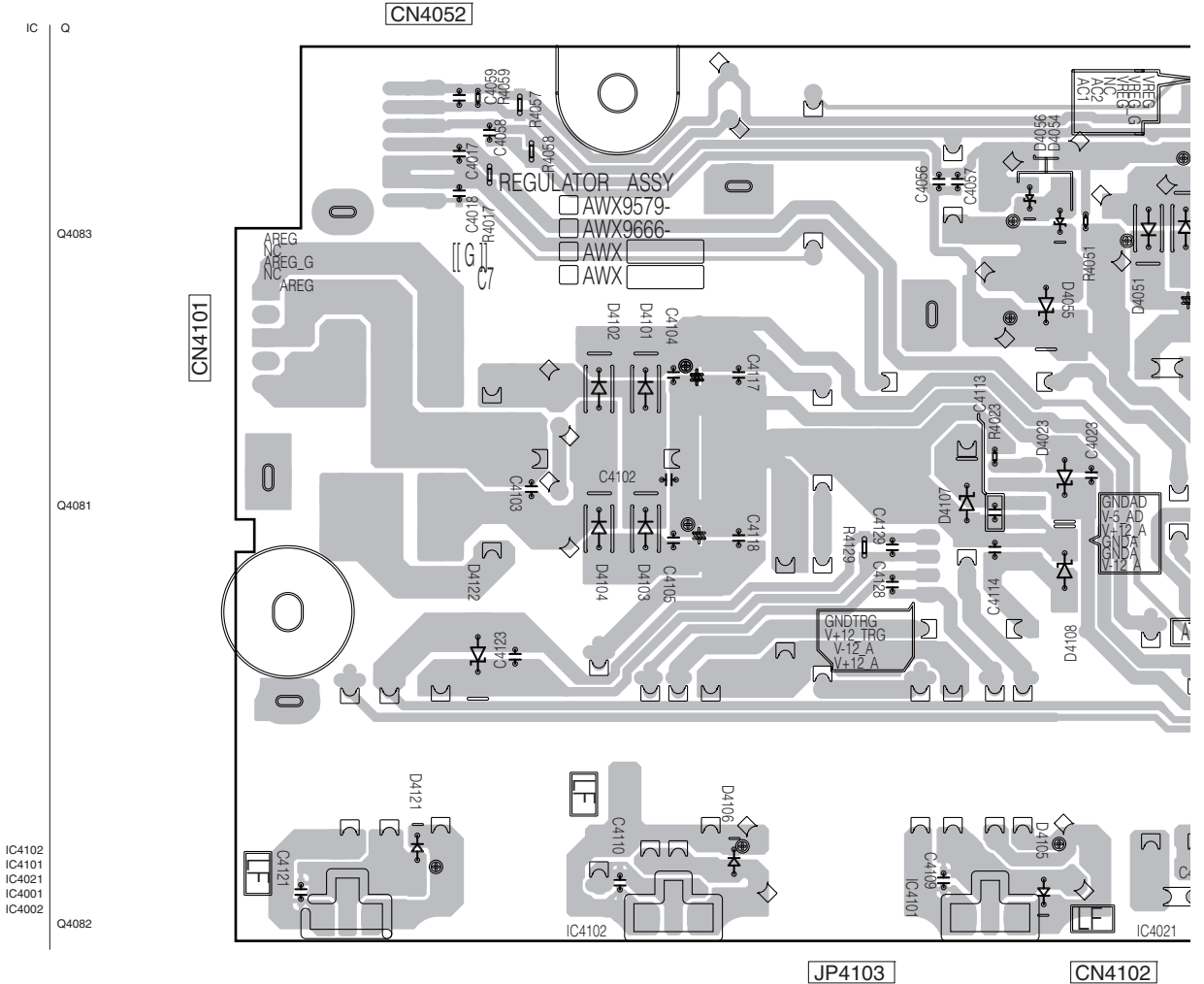
B

C

D

E

F



SIDE B

A

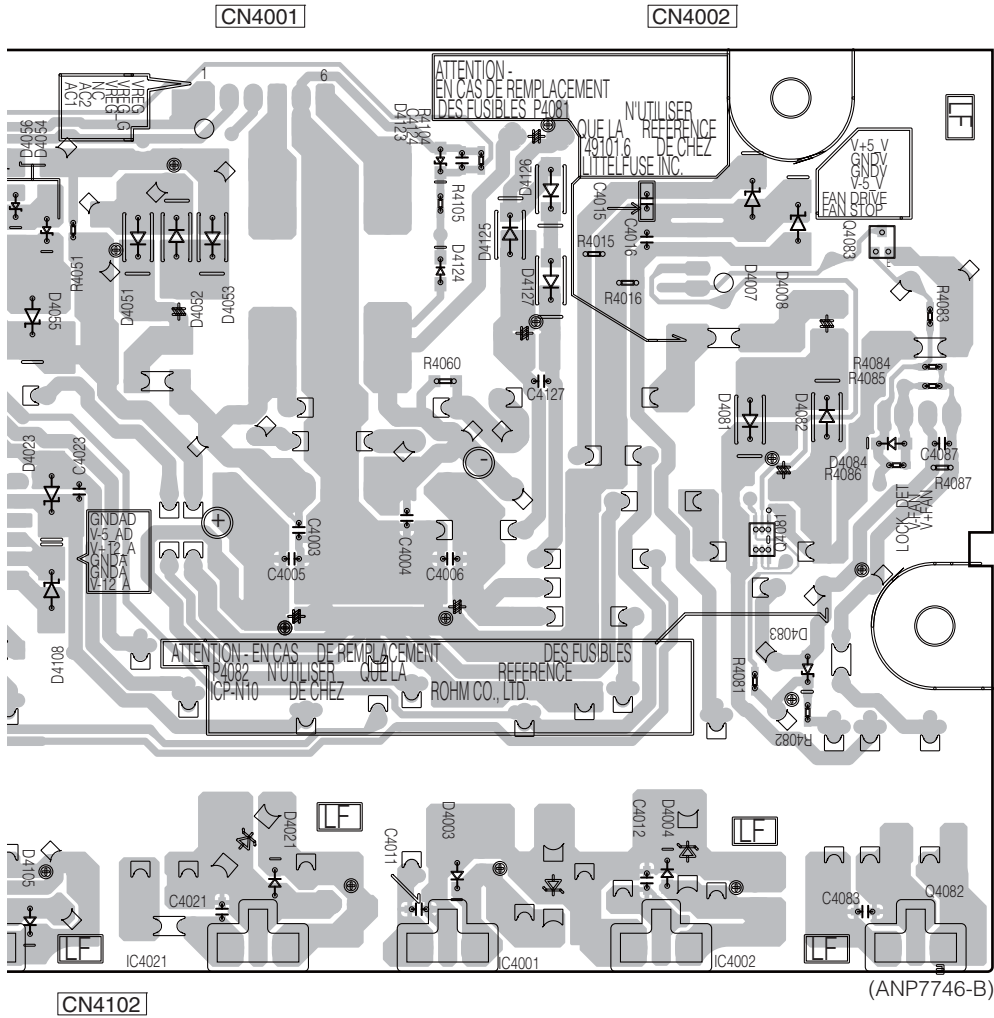
B

C

D

E

F

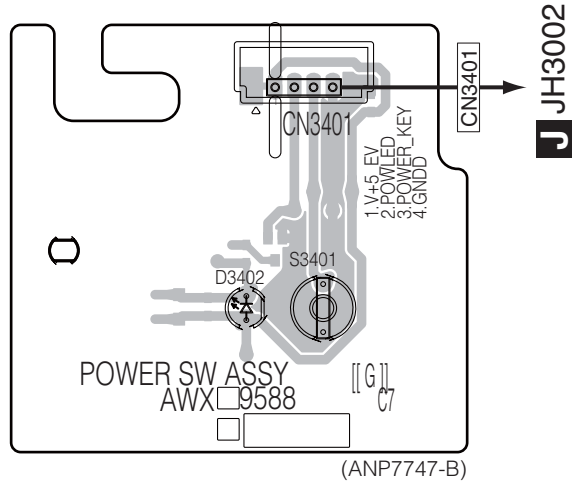


11.13 POWER SW, ENCODER and HEADPHONE ASSYS

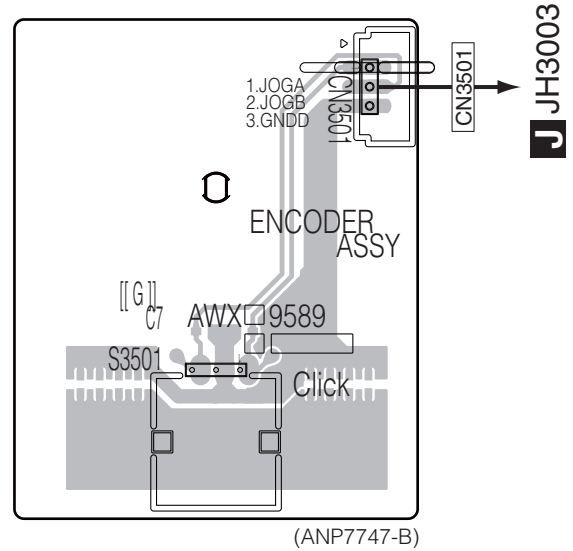
SIDE A

SIDE A

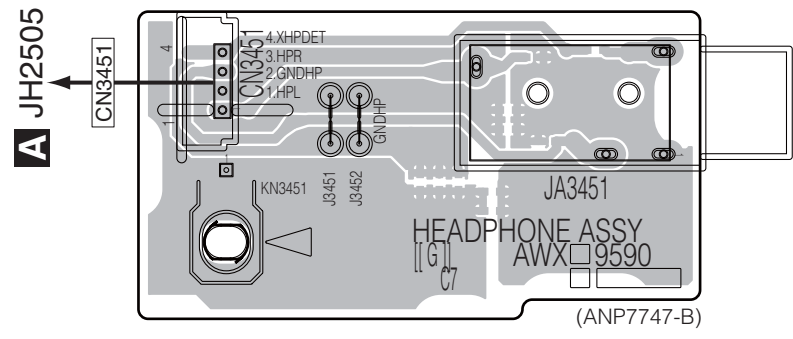
O POWER SW ASSY



P ENCODER ASSY



Q HEADPHONE ASSY



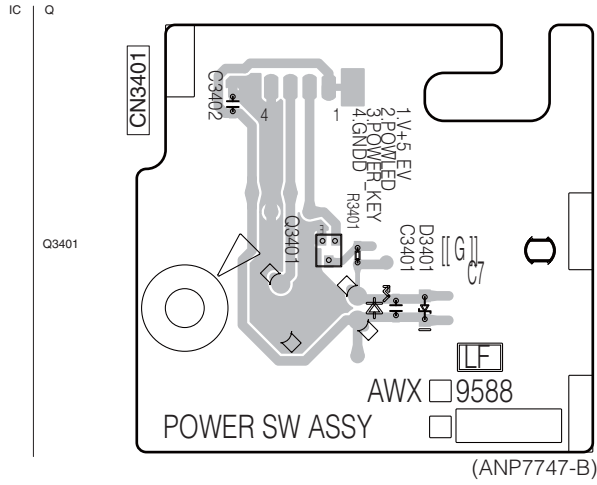
O P Q

O P Q

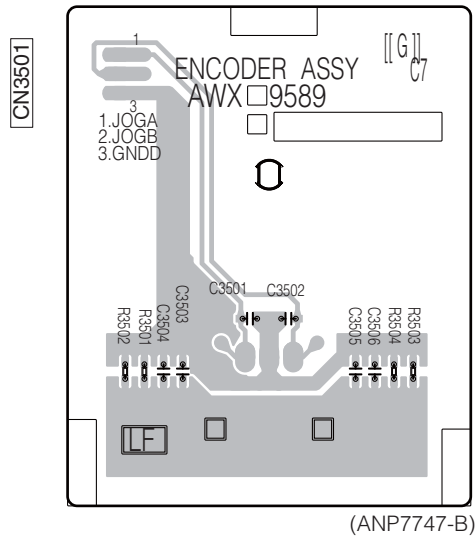
SIDE B

SIDE B

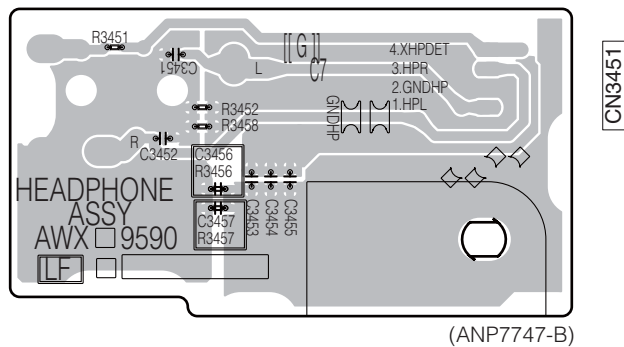
O POWER SW ASSY



P ENCODER ASSY



Q HEADPHONE ASSY



O P Q

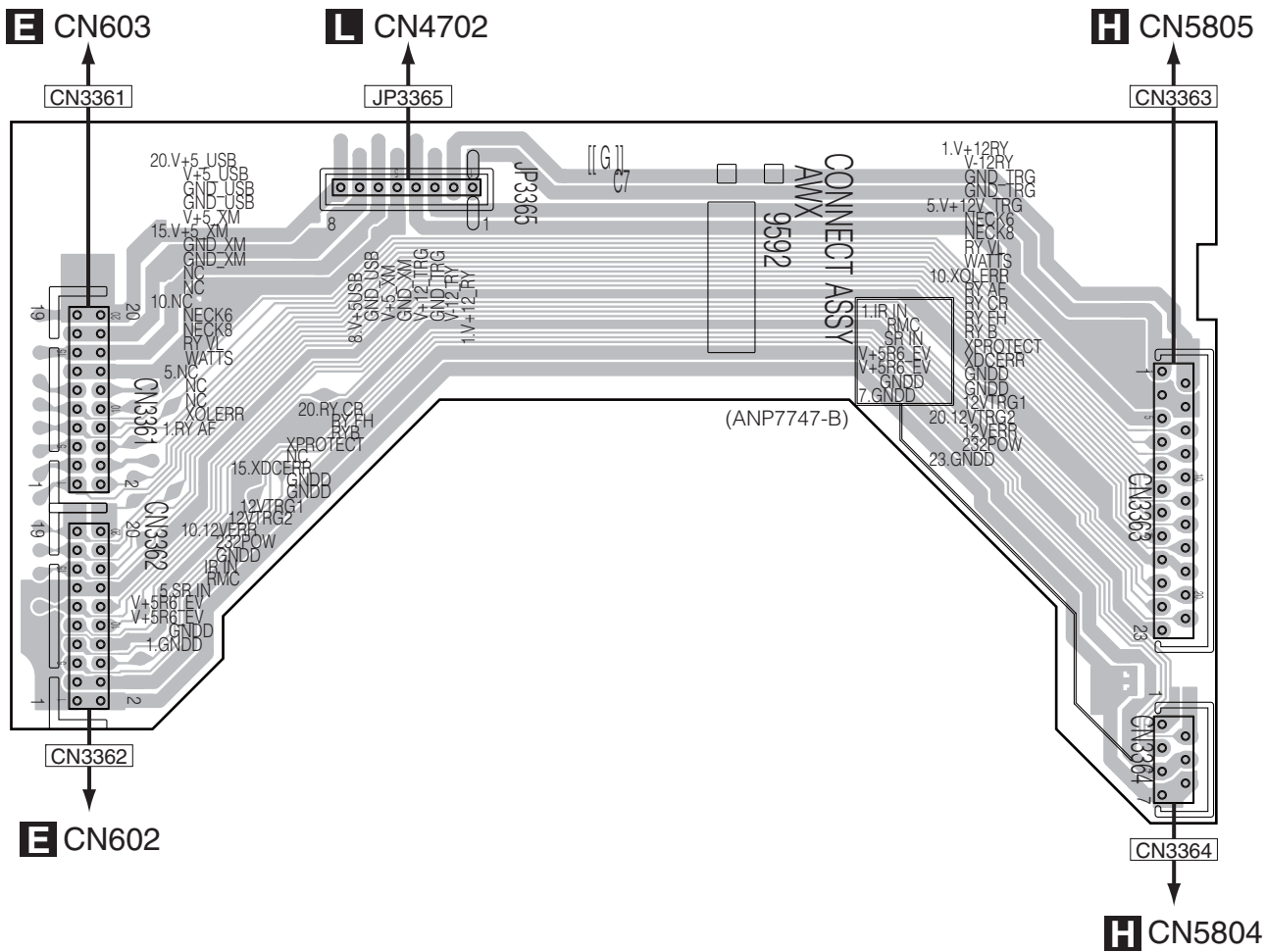
O P Q

11.14 CONNECT and A-DAC BRIDGE ASSYS

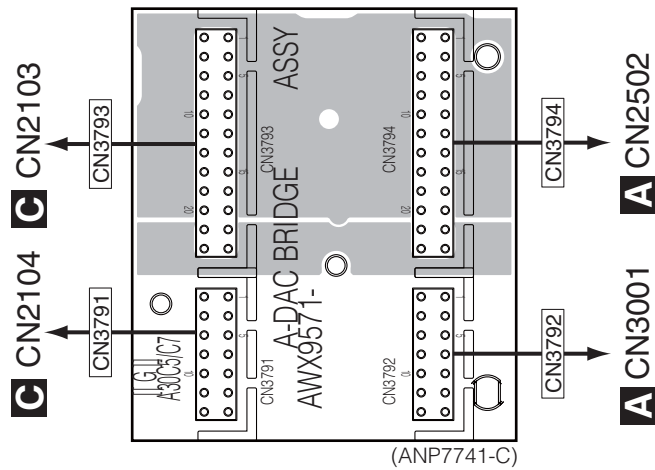
SIDE A

SIDE A

R CONNECT ASSY



S A-DAC BRIDGE ASSY



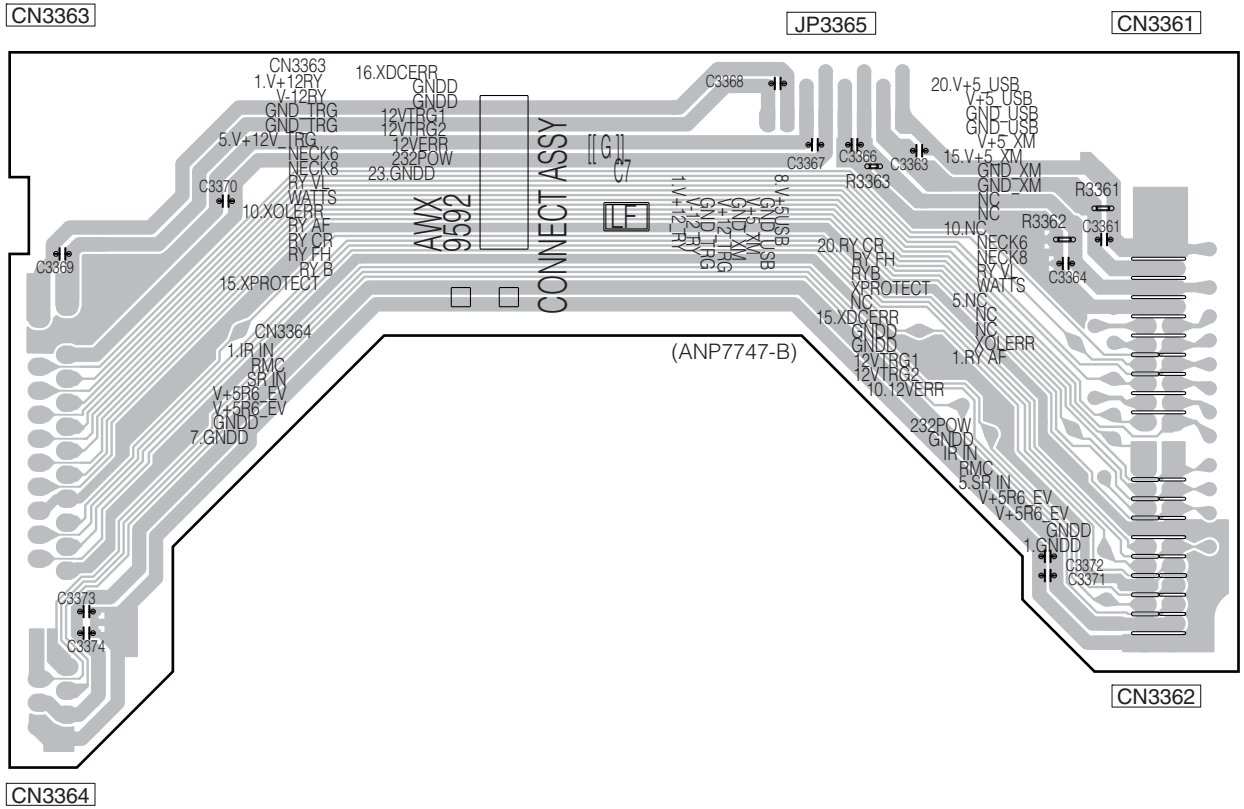
R S

R S

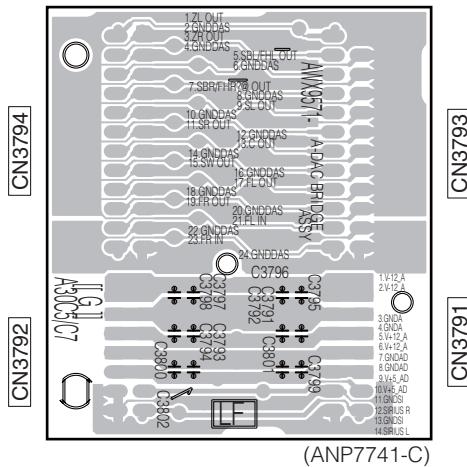
SIDE B

SIDE B

R CONNECT ASSY



S A-DAC BRIDGE ASSY



R S

R S

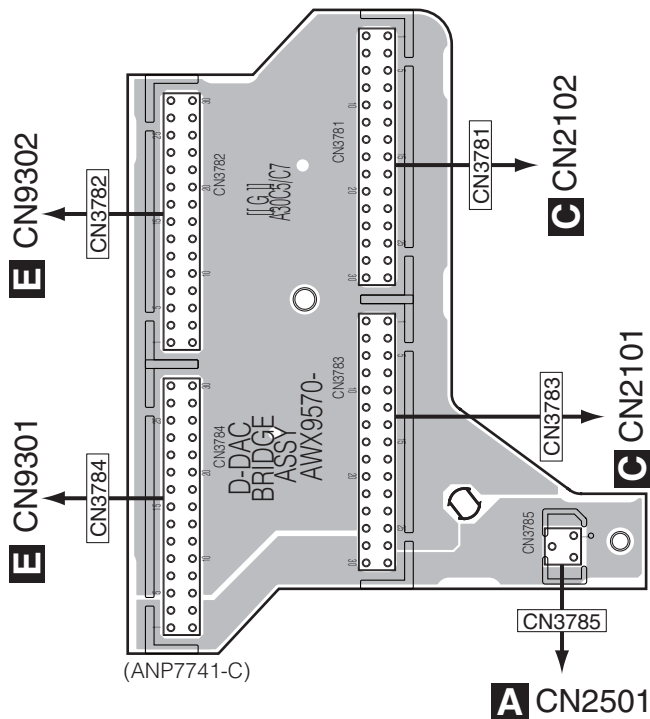
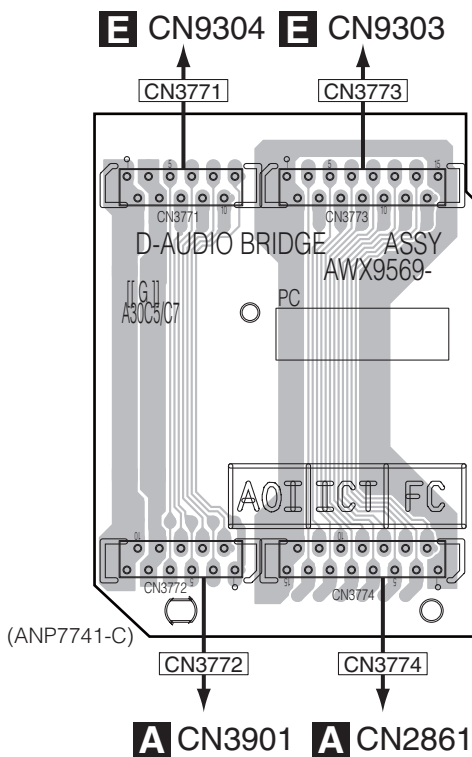
11.15 D-AUDIO and D-DAC BRIDGE, POS 1-3 and BIND L FRONT ASSYS

SIDE A

T D-AUDIO BRIDGE ASSY

SIDE A

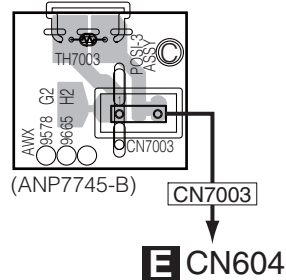
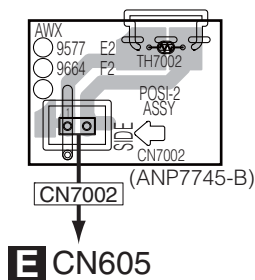
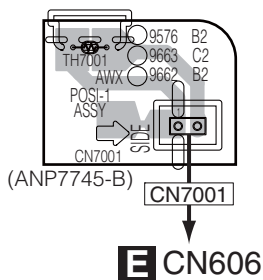
U D-DAC BRIDGE ASSY



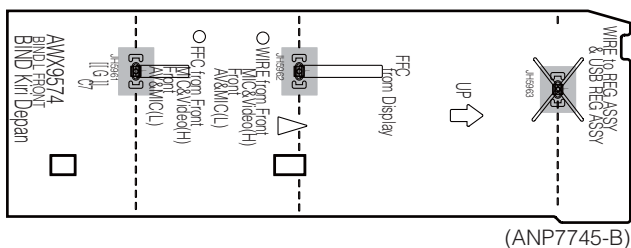
V POSI 1 ASSY

W POSI 2 ASSY

X POSI 3 ASSY



Y BIND L FRONT ASSY



T U V W X Y

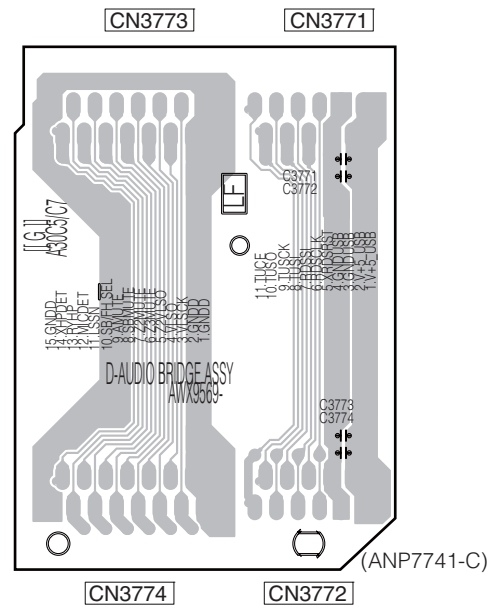
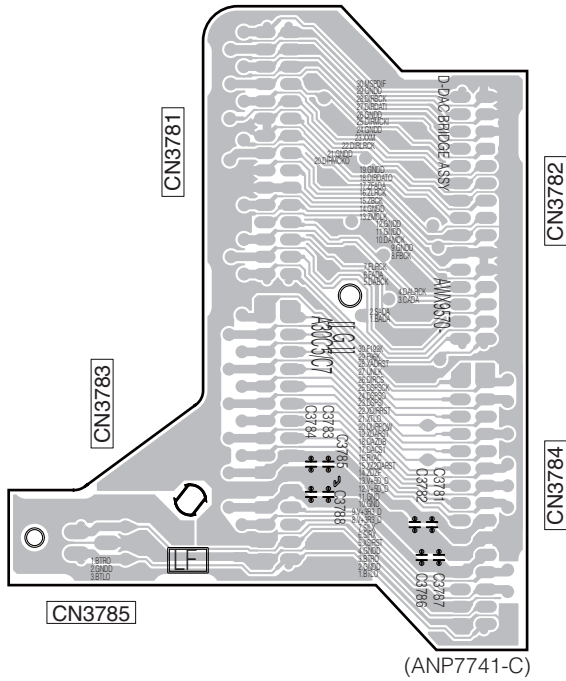
T U V W X Y

SIDE B

SIDE B

U D-DAC BRIDGE ASSY

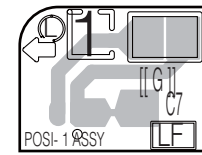
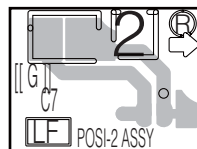
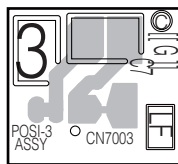
T D-AUDIO BRIDGE ASSY



X POSI 3 ASSY

W POSI 2 ASSY

V POSI 1 ASSY

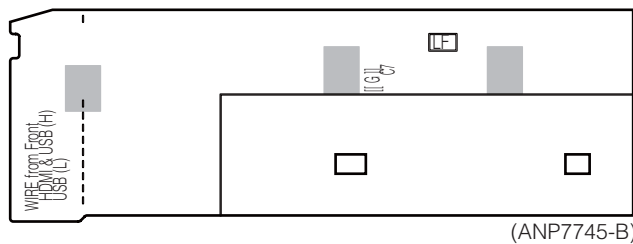


CN7003 (ANP7745-B)

(ANP7745-B) CN7002

(ANP7745-B) CN7001

Y BIND L FRONT ASSY



T U V W X Y

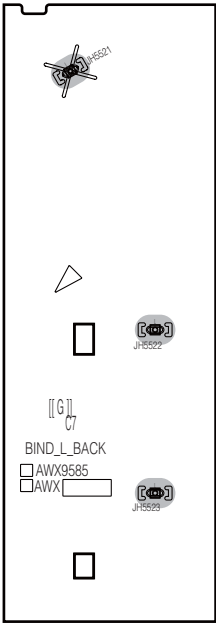
T U V W X Y

11.16 BIND L BACK, BINDER, BIND DM CABLE, BIND R BACK/FRONT, BIND DISP FFC and BLUETOOTH ASSYS

SIDE A

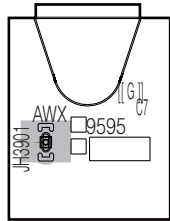
SIDE A

Z BIND L BACK ASSY



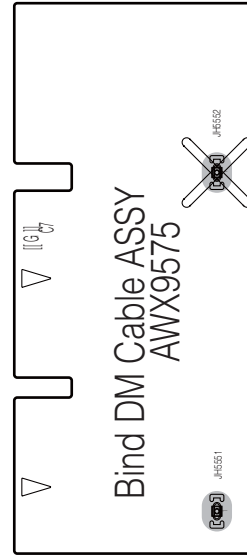
(ANP7746-B)

AA BINDER ASSY



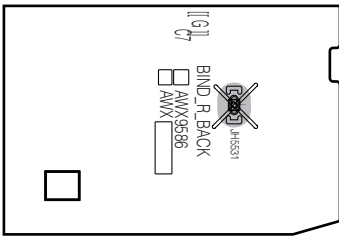
(ANP7747-B)

AB BIND DM CABLE ASSY



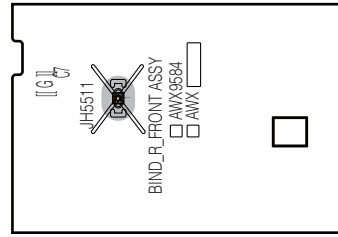
(ANP7746-B)

AC BIND R BACK ASSY



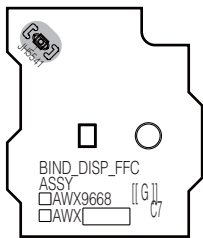
(ANP7745-B)

AD BIND R FRONT ASSY



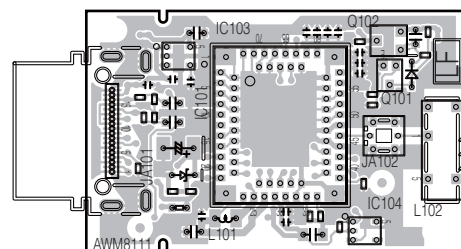
(ANP7746-B)

AE BIND DISP FFC ASSY



(ANP7746-B)

AF BLUETOOTH ASSY



(ANP7661-A)

IC	Q
IC103	Q102
IC101	Q101
IC104	

Z AA AB AC AD AE AF

Z AA AB AC AD AE AF

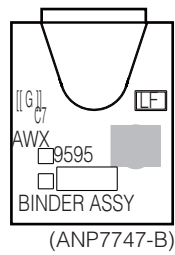
SIDE B

SIDE B

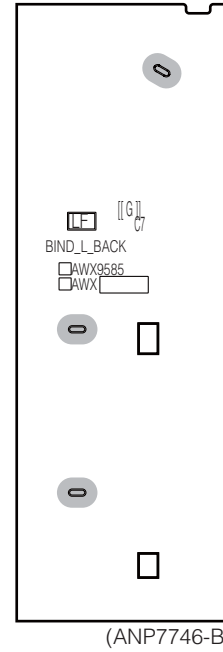
AB BIND DM CABLE ASSY



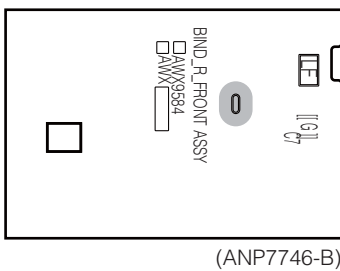
AA BINDER ASSY



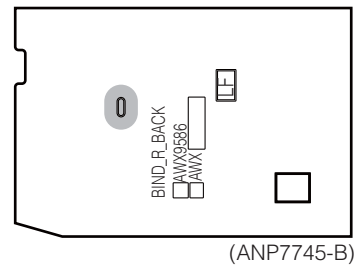
Z BIND L BACK ASSY



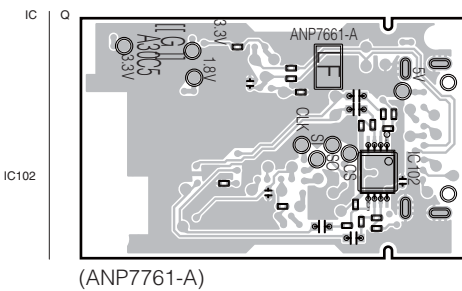
AD BIND R FRONT ASSY



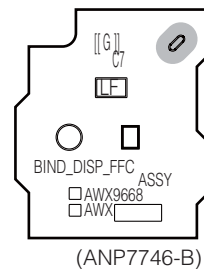
AC BIND R BACK ASSY



AF BLUETOOTH ASSY



AE BIND DISP FFC ASSY



Z AA AB AC AD AE AF Z AA AB AC AD AE AF

12. PCB PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

● The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47 k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω \rightarrow 56 \times 10¹ \rightarrow 561 RD1/APU 5 6 1 J

47 k Ω \rightarrow 47 \times 10³ \rightarrow 473 RD1/APU 4 7 3 J

0.5 Ω \rightarrow R50 RN2H R 5 0 K

1 Ω \rightarrow 1R0 RSIP 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62 k Ω \rightarrow 562 \times 10¹ \rightarrow 5621 RN1/4PC 5 6 2 1 F

Mark No. Description Part No. Mark No. Description Part No.

LIST OF ASSEMBLIES

NSP 1..AMP ASSY AWM8192
 2..BIND L FRONT ASSY AWX9574
 2..POSI 1 ASSY AWX9576
 2..POSI 2 ASSY AWX9577
 2..POSI 3 ASSY AWX9578
 2..POWER AMP ASSY AWX9660
 2..BIND R BACK ASSY AWX9586

NSP 1..LOCAL POWER ASSY AWM8195
 2..BIND DM CABLE SSS AWX9575
 2..REGULAOTR ASSY AWX9579
 2..PRESTAGE ASSY AWX9580
 2..USB REGULATOR ASSY AWX9581
 2..BIND L BACK ASSY AWX9585
 2..XM REGULATOR ASSY AWX9667
 2..BIND R FRONT ASSY AWX9584
 2..BIND DISP FFC ASSY AWX9668

NSP 1..COMPLEX ASSY(VSX-LX53) AWM8197
 2..POWER SW ASSY AWX9588
 2..ENCODER ASSY AWX9589
 2..HEADPHONE ASSY AWX9590
 2..CONNECT ASSY AWX9592
 2..FRONT MIC & VIDEO ASSY AWX9593
 2..BINDER ASSY AWX9595
 2..DISPLAY ASSY AWX9669
 2..PRIMARY ASSY AWX9676

NSP 1..COMPLEX ASSY(VSX-2020-K) AWM8230
 2..POWER SW ASSY AWX9588
 2..ENCODER ASSY AWX9589
 2..HEADPHONE ASSY AWX9590
 2..CONNECT ASSY AWX9592
 2..FRONT MIC & VIDEO ASSY AWX9593
 2..BINDER ASSY AWX9595
 2..DISPLAY ASSY AWX9726
 2..PRIMARY ASSY AWX9676

NSP 1..AUDIO COMPOSITE ASSY AWR7087
 2..COMPOSITE ASSY AWX9568
 2..D-AUDIO BRIDGE ASSY AWX9569
 2..D-DAC BRIDGE ASSY AWX9570
 2..A-DAC BRIDGE ASSY AWX9571
 2..AUDIO ASSY AWX9644

1..FRONT HDMI USB ASSY AWX9565

1..COMPONENT ASSY AWX9572

1..DAC LOW ASSY AWX9657

1..DIGITAL MAIN ASSY AWX9719

NSP 1..BLUETOOTH AD ASSY(VSX-LX53) AXF7022
 2..BLUETOOTH ASSY AWM8111

1..FM/AM TUNER UNIT AXX7265

J DISPLAY ASSY

AWX9669 and AWX9726 are constructed the same except for the following:

Mark	Symbol and Description	AWX9669	AWX9726
	R3022	RS1/10SR473J	RS1/10SR103J
	R3023	Not used	RS1/10SR393J

Mark No. Description Part No. Mark No. Description Part No.

A AUDIO ASSY

SEMICONDUCTORS

IC 2501 BD3473KS2
 IC 2701 TC4066BFN
 IC 2702,2751,2801 NJM4565MD
 IC 3221 TC4053BFN
 IC 3251,3271 NJM4565V

IC 3931 LC72725KM
 Q 2721,2853,3221,3222 LTC124EUB
 Q 2722 LTA124EUB
 Q 2803,2951,2971,3101 IMX25
 Q 2852 LSA1576UB
 Q 3001 2SD1858X
 Q 3002 2SB1237X
 Q 3102,3151,3152,3201 IMX25
 Q 3202,3251,3252,3271 IMX25
 Q 3272 IMX25

Mark No. Description Part No.

Mark No. Description Part No.

MISCELLANEOUS

L	2004-2009 CHIP SOLID INDUCTOR	QTL1013
L	2102,2201 CHIP SOLID INDUCTOR	QTL1013
L	2202,2431 CHIP SOLID INDUCTOR	QTL1013
L	2442,2471 CHIP SOLID INDUCTOR	QTL1013
L	2472,2473 INDUCTOR	CTF1379
JA	2002-2004 OPT. LINK IN	AKS7001
JA	2006 OPT. LINK OUT	AKS7002
JA	2008 PIN JACK(2P)	AKB7173
KN	2201 SCREW PLATE	VNE1948
CN	2101,2102 SOCKET(30PL)	BKP1047
CN	2103 24P SOCKET	AKP7251
CN	2104 14P SOCKET	AKP7248

C	2179,2184,2187,2432	CEHAZL101M25
C	2183,2482	CKSSYB104K10
C	2193	CKSQYB225K10
C	2195,2440	CEHAZL101M10
C	2201,2202,2211,2477	CKSRYP105K10
C	2203,2473,2474	CEAK470M25
C	2204,2212,2216	CEAK101M16
C	2205,2207	CCSSCH331J50
C	2206,2208,2220,2422	CKSSYB104K16
C	2217,2401,2402,2433	CKSRYP104K16
C	2223,2224,2245,2251	CKSRYP103K50
C	2231,2232,2281,2282	CEAT1R0M50
C	2233,2234,2445,2455	CCSRCH471J50
C	2235,2236,2285,2335	CCSRCH271J50
C	2237,2238,2283,2333	CCSRCH331J50

RESISTORS

R	2007-2009,2012,2016	RS1/16SS101J
R	2017,2020,2089	RS1/16SS0R0J
R	2018,2084-2087,2210	RS1/16SS470J
R	2019,2211,2489	RS1/16SS680J
R	2021,2023-2025,2027	RS1/16SS101J
R	2022,2048,2212-2216	RS1/16SS221J
R	2026	RS1/16SS471J
R	2028	RS1/16SS1002F
R	2049,2088,2090-2094	RS1/16SS101J
R	2115,2119,2168,2263	RS1/16SS101J
R	2116-2118,2120	RS1/16SS220J
R	2158,2160,2162,2164	RS1/16SS104J
R	2165-2167,2169,2170	RS1/16SS0R0J
R	2171-2174,2177,2178	RS1/16SS104J
R	2188	RS2LMF120J
R	2189	RS1/8SQ475J
R	2191	RS1/8SQ105J
R	2201,2202	RS1/16SS103J
R	2217-2220,2487	RS1/16SS470J
R	2431,2440	RS1/16SS0R0J
R	2432	RS1/16SS100J
R	2433,2434,2480,2481	RS1/16SS101J
R	2469,2471,2472	RS1/16SS221J
R	2473,2474	RS1/16SS102J
R	2485	RS1/16SS101J
R	2490	RS1/16SS820J
Other Resistors		RS1/10SR###J

C	2239,2240,2289,2290	CEAK100M50
C	2252,2273,2274,2286	CKSRYP103K50
C	2271,2272,2321,2322	CKSRYP472K50
C	2277	CCSSCH100D50
C	2284	CKSRYP223K50
C	2287,2337,2338,2387	CCSRCH391J50
C	2288	CKSRYP562K50
C	2295,2323,2324,2345	CKSRYP103K50
C	2331,2332,2381,2382	CEAT1R0M50
C	2334,2383,2384	CCSRCH331J50
C	2336,2385,2386	CCSRCH271J50
C	2339,2340,2389,2390	CEAK100M50
C	2371,2372	CKSRYP472K50
C	2373,2374,2395,2434	CKSRYP103K50
C	2388,2453,2454	CCSRCH391J50
C	2403,2404	DCH1201
C	2405-2408	ACH7196
C	2411,2412,2415,2416	CKSQYB103K50
C	2421	CCSSCH471J50
C	2435,2438,2441-2443	CKSRYP104K16
C	2436,2437	ACH7211
C	2439,2464,2478	CKSRYP103K50
C	2446,2472,2476,2480	CKSRYP104K16
C	2451,2452	CEAK220M50
C	2456,2475,2489	CCSRCH471J50
C	2457,2458	CKSRYP104K25
C	2459,2460	CEAK100M50
C	2481,2483,2484	CCSSCH471J16

CAPACITORS

C	2002,2005,2129,2130	CKSRYP103K50
C	2003,2006,2010-2012	CKSRYP104K16
C	2014,2122,2214,2215	CKSRYP104K16
C	2018,2021,2024,2181	CEHAZL101M10
C	2019,2022,2028,2033	CCSSCH471J50
C	2020,2023,2029,2032	CKSSYB104K16
C	2026,2065,2066	CKSRYP474K16
C	2030	ACH7272
C	2046,2070,2112,2219	CCSSCH471J50
C	2047,2069,2106,2194	CKSSYB104K16
C	2054,2413,2414	CCSRCH101J50
C	2055	ACH7273
C	2059	CEHAZL221M10
C	2174,2175,2182	CCSRCH102J50
C	2178,2185,2186	CKSRYP104K50

D COMPONENT ASSY SEMICONDUCTORS

IC	8301	NJW1327FU1
IC	8401	NJM2505AF
IC	8501	PDC162A
IC	8601	HIN202EIBNZ
Q	8301,8604	LSA1576UB
Q	8302,8501,8603	LSC4081UB
Q	8303,8605	RT1N141M-11
Q	8401	2SD1664
Q	8402	2SB1132
D	8301,8302,8601,8605	1SS352
D	8401	DAN217U
D	8404,8408	UDZS3R9(B)



Mark No. Description Part No.

MISCELLANEOUS

L 8501 CHIP COIL	LCYA330J2520
JA 8301 6P PIN JACK NI	AKB7224
JA 8304 3P PIN JACK NI	AKB7227
JA 8601 9P D-SUB SOCKET	AKP7256
X 8501 CRYSTAL RESONATOR (14.31818 MHz)	ASS7080
CN 8301-8303 20P PLUG	AKM7171
CN 8404 L-PLUG(3P)	KM200NA3L
JP 8403 CONNECTOR ASSY	PF06PG0S50

RESISTORS

R 8301-8306	RS1/10SR75R0F
R 8310,8312,8314	RS1/10SR68R0D
Other Resistors	RS1/10SR###J

CAPACITORS

C 8301,8302,8383,8417	CEAT101M10
C 8303,8319,8320,8333	CCSRCH102J50
C 8304,8306,8308,8314	CKSRYB104K16
C 8305,8307,8310,8313	CKSQYB106K6R3
C 8309,8317,8322,8340	CKSQYB105K16
C 8311,8312,8330,8331	CKSRYB103K50
C 8315,8318,8321,8324	CKSQYB106K6R3
C 8316,8323,8325,8327	CKSRYB104K16
C 8326,8341-8343,8345	CKSQYB106K6R3
C 8328,8336,8337,8344	CKSRYB104K16
C 8334,8389,8403,8408	CCSRCH102J50
C 8338,8339,8360,8402	CKSRYB103K50
C 8346,8348,8404,8405	CKSQYB106K6R3
C 8347,8349,8395,8401	CKSRYB104K16
C 8354,8355,8381,8382	CKSRYB105K10
C 8358,8359	CCSRCH470J50
C 8376,8377,8379,8611	CCSRCH100D50
C 8384,8385,8388	CKSRYB473K50
C 8386	CKSRYB562K50
C 8387,8390	CKSRYB105K10
C 8406,8407,8503,8509	CCSRCH101J50
C 8409,8414	CKSQYB106K6R3
C 8410,8413,8415,8421	CCSRCH102J50
C 8418,8520,8521,8613	CEAT101M10
C 8419,8420	CEAT221M10
C 8422,8501,8513	CCSRCH102J50
C 8504,8505	CCSRCH5R0C50
C 8506,8508	CCSRCH240J50
C 8507,8510	CKSRYB122K50
C 8511,8512	CCSRCH101J50
C 8515,8601,8607	CKSRYB103K50
C 8522,8523,8602	CKSRYB104K16
C 8604-8606	CKSRYB104K16
C 8608	CCSRCH471J50
C 8610	CCSRCH331J50
C 8612	CCSRCH100D50

Mark No. Description Part No.

DIGITAL MAIN ASSY

SEMICONDUCTORS

IC 101	UPD61283F1-407LU2A	A
IC 102,1601,9012,9019	TC7SH08FUS1	
IC 103,104	NJM12904V	
IC 105,601,1501,1804	TC7WHU04FU	
NSP IC 402	AYW7343	
IC 403,404	K4H561638J-LCB3	
IC 602	341S2164	
IC 604	PE7008A	
IC 609	TC74VHCT541AFK	
IC 611,9014,9306	TC74VHC126FK	
IC 612,1805	TC74VHCT125AFK	B
IC 613,9307	TC74VHCT08AFK51	
IC 614,9011	TC74VHC08FK	
IC 901	TC74VHC153FK	
IC 903,907	S-24CS02AFT	
IC 904	SII9233ACTU	
IC 905,909	TC7MB3257FK	
IC 906	CXB1444R	
IC 908	TC74VHC541FK	
IC 1102	ADV7181CBSTZ	
IC 1202	TC74LCX541FK	
IC 1203,1217,1218	TC7SZ125FU	C
IC 1204	88DE2750	
IC 1205-1211,1215	TC74VCX541FK	
IC 1212	EDE5116AJBG-8E-E	
⚠ IC 1216	LP2996M	
⚠ IC 1502,1605,1606,9308	AAT4614AIGU-2	
IC 1602,1603	SII9134CTU	
IC 1604,1810,1811	TC74VHC157FK	
IC 1607,9002	TC7SH32FUS1	
⚠ IC 1802,9812	R1172H501D	
IC 1814,9015	TC74LCX157FK	
IC 1815	TC74VHC125FK	D
IC 9001	AYW7334	
IC 9003	DSPA56720AG	
IC 9004	IS42S16400F-6TL	
IC 9005,9006	TC74LCX573FK	
⚠ IC 9008	NJM2872BF33	
IC 9009	ICS87002BM-05	
IC 9010	TC7WH157FU	
IC 9013,9016	TC74LCX08FK	
IC 9018	TC7WH126FU	
IC 9301	TC7SH08FUS1	
IC 9302,9304	BU4094BCFV	E
IC 9305	TC74VHC04FK	
IC 9506	LAN9211-ABZJ	
⚠ IC 9801	MB39C011A	
⚠ IC 9804	NJM2846DL3-18	
⚠ IC 9806,9815	S-1172B10-U5	
⚠ IC 9809	S-1170B25UC-OTK	
⚠ IC 9810	MM1701WH	
⚠ IC 9811	NJM2846DL3-33	
⚠ IC 9813	S-1172B12-U5	
Q 101,102,607	LSA1576UB	
Q 601,603,9302-9305	LTA124EUB	F

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
R	1236,1250,1275		RAB4CQ680J	C	148,179,9816,9821		CKSSYB473K10
R	1238,1242-1245,1248		RAB4CQ470J	C	150,182,636,658		CCSSCH101J50
R	1249,1261,1263-1269		RAB4CQ470J	C	155,157,158,164		CKSSYB105K6R3
R	1258-1260,1262,1270		RAB4CQ473J	C	161,181,189,198		CKSQYB225K10
R	1271,1274,1278,1283		RAB4CQ473J	C	162,9070		VCH1234
R	1277,1284,1288,1289		RAB4CQ151J	C	163,9339,9340		CCSSCH221J50
R	1279,9003,9034		RAB4CQ470J	C	166,430,436		CEVLW101M4
R	1287,1614-1617,1622		RAB4CQ473J	C	167,169,170,177		CKSSYB105K6R3
R	1291		RAB4CQ151J	C	171,173,174,176		CCSSCH102J50
R	1528-1530,1541,1545		RS1/16SS2200F	C	178,194,9610		CEVW101M4
R	1546,1548,1550		RS1/16SS56R0F	C	180		CCSSCH151J50
R	1547,1549		RS1/16SS2200F	C	183,187,408,410		CKSSYB105K6R3
R	1554,1574,1575,1805		RS1/10SR0R0J	C	185,604,910,914		CCSSCH471J50
R	1555-1557		RS1/16SS5601F	C	186,9337,9338		CEVW100M16
R	1568,1570,1572		RS1/16SS3300F	C	190,203,412,415		CCSSCH102J50
R	1625,1633,1642,1645		RAB4CQ473J	C	191,193,195,196		CKSSYB104K16
R	1650,1651		RS1/16SS6800F	C	200,9614,9615		CCSSCH120J50
R	9016		RS1/10SR103J	C	201,601,602,1313		CCSSCH100D50
R	9032,9038,9043		RAB4CQ220J	C	202,603,607,610		CKSSYB104K10
R	9035		RAB4CQ103J	C	407,409,417,428		CKSSYB104K16
R	9065		RAB4CQ101J	C	413,414,416,418		CKSSYB105K6R3
R	9068-9071,9620,9621		RAB4CQ220J	C	419,432,438,606		CKSSYB103K16
R	9310,9314,9801,9807		RS1/10SR0R0J	C	420,427,433,439		CCSSCH102J50
R	9640,9646		RAB4CQ220J	C	421,422,426,429		CKSSYB105K6R3
R	9662		RS1/16SS1202F	C	423,631,647,1561		CCSSCH331J50
R	9665		RAB4CQ473J	C	424,425,912,923		CKSQYB106K6R3
R	9678-9681		RS1/16SS49R9F	C	431,434,437,913		CKSSYB105K6R3
R	9686		RS1/16SS10R0D	C	435,440,1206,1213		CKSSYB104K16
R	9802		RS1/16SS1501D	C	441,442,618-621		CCSSCH102J50
R	9804		RS1/16SS3302D	C	608,982,1102,1108		CEVW101M16
R	9806		RS1/16SS1502D	C	613,615-617,622		CKSSYB104K10
R	9808,9810,9811,9819		RS1/10SR0R0J	C	614,653,684,948		CKSSYB103K16
R	9812		RS1/16SS1003D	C	623,624,633,635		CCSSCH102J50
R	9814		RS1/16SS7502D	C	626,628,632,637		CKSSYB104K10
R	9817		RS1/16SS5101D	C	638,640,642-645		CKSSYB104K10
R	9820,9822,9860,9863		RS1/10SR0R0J	C	639,641,648-650		CCSSCH102J50
R	9828,9829,9832,9833		RS1/8SQ0R0J	C	654,661,663,671		CKSSYB104K10
R	9836,9837		RS1/8SQ0R0J	C	655,994,1558,1664		CEVLW101M10
R	9871		RS1/10SR0R0J	C	659,681,688,697		CCSSCH101J50
Other Resistors			RS1/16SS###J	C	672,673,692-696		CCSSCH102J50
CAPACITORS				C	674,679,680		CKSSYB104K10
C	104,123,124,156		CEVW101M4	C	685-687,905,915		CKSSYB104K10
C	105,109,111,113		CKSSYB105K6R3	C	698-701,704,713		CCSSCH102J50
C	106,110,117,131		CCSSCH102J50	C	705-708,717,718		CCSSCH101J50
C	107,108,115,116		CKSSYB104K10	C	714,726-731,739		CCSSCH102J50
C	112,126,154,199		CKSQYB106K6R3	C	720,721,756,757		CCSSCH101J50
C	114,118,168,411		CKSSYB103K16	C	749-751,758		CCSSCH102J50
C	119,120,122,125		CKSSYB104K10	C	901-904,906,916		CCSSCH102J50
C	121,127,128,130		CKSSYB105K6R3	C	911		CEVW470M4
C	129,133,135-138		CKSSYB104K10	C	917,918,921,924		CKSSYB104K10
C	132,141,149,151		CCSSCH102J50	C	919,930,934,945		CCSSCH102J50
C	134,139,143,144		CKSSYB105K6R3	C	920,965,970,1000		CCSSCH101J50
C	140,985,1208,1355		CEVW221M4	C	922		CEVLW470M6R3
C	142,147,160,175		CCSSCH331J50	C	925,1214,1349-1351		CKSSYB105K6R3
C	145,159,172,188		CKSSYB104K16	C	928,929,933,937		CKSSYB104K10
C	146,152,153,184		CKSSYB104K10	C	931,938,939,944		CCSSCH471J50
				C	936,942,1518,1526		CCSSCH8R0D50
				C	940,941,943,946		CKSSYB104K10
				C	947,951,953		CKSSYB104K10
				C	949,968,978,988		CCSSCH102J50

	<u>Mark No. Description</u>	<u>Part No.</u>	<u>Mark No. Description</u>	<u>Part No.</u>
A	C 950,952,954,955	CCSSCH471J50	C 1527-1529,1538-1540	CCSSCH180J50
	C 956-958,960,961	CKSSYB104K10	C 1530-1532	CCSSCH4R0C50
	C 959,962,963,967	CCSSCH471J50	C 1533,9056,9090	CKSQYB225K10
	C 964,966,969,973	CKSSYB104K10	C 1550	CCSSCH560J50
	C 971,974,975,983	CCSSCH471J50	C 1552-1554	CCSSCH390J50
B	C 972,1123,1126,1136	CKSSYB103K16	C 1555-1557,1607	CKSSYB104K10
	C 976,980,984,987	CKSSYB104K10	C 1564,1609,1615,1619	CCSSCH101J50
	C 979,981,1543-1545	CCSSCH470J50	C 1565,9078,9094	CEVW101M16
	C 989,1687,1689,1694	CKSRYB105K10	C 1566,1608,1610,1612	CKSSYB105K6R3
	C 990,992,997,998	CKSSYB104K10	C 1571,1572,1601,1602	CCSSCH102J50
C	C 991,993,999,1150	CCSSCH471J50	C 1614,1616,1618,1620	CKSSYB105K6R3
	C 995,1004,1009,1011	CCSSCH102J50	C 1617,1621,1623,1627	CCSSCH471J50
	C 1001,1010,1012,1014	CCSSCH101J50	C 1622,1624,1626,1641	CKSSYB105K6R3
	C 1003,1103,1109,1111	CKSSYB104K10	C 1625,1628,1629,1636	CCSSCH101J50
	C 1101,1106,1107,1112	CCSSCH102J50	C 1630-1632,1634,1635	CKSSYB104K10
D	C 1104,1110,1121,1231	CCSSCH101J50	C 1633,1662,1663,1670	CCSSCH102J50
	C 1105,1113	CCSSCH270J50	C 1637,1639,1644,1645	CCSSCH471J50
	C 1117,1120,1127,1131	CCSSCH102J50	C 1638,1648,1649,1714	CCSSCH101J50
	C 1118,1119,1128	CKSSYB104K10	C 1640,1642,1653,1655	CKSSYB104K10
	C 1125	CKSSYB823K10	C 1643,1651,1657,1696	CKSSYB105K6R3
E	C 1130,1142,1145,1147	CKSQYB106K6R3	C 1650,1656,1701,1702	CKSQYB106K6R3
	C 1132-1134,1137,1139	CKSSYB104K10	C 1652,1654,1658,1660	CCSSCH471J50
	C 1138,1270,1646,1647	CKSSYB103K16	C 1659,1661,1705,1716	CKSSYB104K10
	C 1141,1143,1148,1149	CKSSYB104K10	C 1665	CEVLW101M10
	C 1146,1156,1357,1536	CEVW101M16	C 1666,1707,9334	CKSSYB104K16
F	C 1151,1215,1225-1227	CCSSCH102J50	C 1667,1703,1708,1713	CCSSCH471J50
	C 1152,1153,1210,1218	CKSSYB104K10	C 1671,1698-1700,1704	CCSSCH102J50
	C 1155,1205,1211,1228	CKSQYB106K6R3	C 1674-1681,1684-1686	VCG1066
	C 1203,1207,1427	CEVLW221M4	C 1688,1690-1693	VCG1066
	C 1212,1221,1298,1345	CCSSCH471J50	C 1695,1821	CKSRYB105K10
G	C 1222	CKSRYB105K16	C 1697,1712,1718,9024	CKSSYB105K6R3
	C 1223,1224,1229,1236	CKSSYB104K16	C 1706,1717	CCSSCH331J50
	C 1230,1352-1354,1428	CKSQYB106K6R3	C 1709,1715,1720,9025	CCSSCH102J50
	C 1238,1240,1243,1254	CKSSYB104K16	C 1710,1711,1816,1818	CKSQYB106K6R3
	C 1244,1248,1251,1252	CCSSCH102J50	C 1719,9014,9017,9023	CCSSCH101J50
H	C 1246,1256,1268,1278	CCSSCH101J50	C 1721,1822,1828,1836	CKSSYB104K10
	C 1253,1282,1296,1301	CKSSYB104K10	C 1823,1827,1837,1839	CCSSCH471J50
	C 1267,1272,1276,1285	CKSSYB104K16	C 1824	CCSSCH470J50
	C 1274,1294,1299,1311	CCSSCH102J50	C 1838,1846,1848,9001	CKSSYB104K10
	C 1286,1322,1339,1392	CCSSCH101J50	C 1847,1849,9002,9005	CCSSCH471J50
I	C 1289,1297,1305,1318	CKSSYB104K16	C 9003,9004,9007,9009	CKSSYB104K10
	C 1319,1324,1328,1334	CKSSYB104K16	C 9006,9008,9010,9012	CCSSCH471J50
	C 1323,1325,1333,1346	CCSSCH102J50	C 9011,9013,9015,9016	CKSSYB104K10
	C 1326	CCSSCH7R0C50	C 9018,9021,9030,9033	CCSSCH471J50
	C 1341,1362,1367-1370	CKSSYB104K10	C 9019,9020,9022,9031	CKSSYB104K10
J	C 1342,1343,1380,1384	CKSSYB104K16	C 9026,9029,9035,9039	CKSSYB105K6R3
	C 1347,1381,1388,1395	CCSSCH102J50	C 9027,9028,9034,9040	CCSSCH102J50
	C 1358,9044,9076,9093	CEVW221M4	C 9032,9036,9043,9049	CKSSYB104K10
	C 1363-1366,1371,1389	CCSSCH471J50	C 9037,9038,9051,9053	CCSSCH471J50
	C 1385,1429,1431,1509	CKSSYB104K10	C 9041,9121,9351-9356	CCSSCH102J50
K	C 1390,1391,1394,1398	CKSSYB104K16	C 9042,9578,9582,9599	CKSSYB105K6R3
	C 1393,1410,1426,1541	CCSSCH101J50	C 9050,9875	CKSSYB103K16
	C 1401,1411,1424,1501	CCSSCH102J50	C 9052,9059,9060,9062	CKSSYB104K10
	C 1408,1409,1425,1559	CKSSYB104K16	C 9054,9082,9085,9803	CKSQYB475K10
	C 1430,1432,1611,1613	CCSSCH471J50	C 9055,9057	CKSRYB474K10
L	C 1502,1534,1537,1569	CCSSCH102J50	C 9058,9061,9063,9065	CCSSCH471J50
	C 1505-1508,1605,1606	CKSQYB106K6R3	C 9064,9066,9069,9072	CKSSYB104K10
	C 1511-1516,1535	CKSSYB104K10	C 9067,9068,9084,9087	CCSSCH471J50
	C 1520-1522	CCSSCH7R0D50	C 9073,9075,9357-9359	CCSSCH101J50
	C 1523-1525	CCSSCH5R0C50	C 9074,9080,9083,9086	CKSSYB104K10

Mark No.	Description	Part No.
C 9079,9091,9817,9823		CKSRYP104K16
C 9081		CCSRCH101J50
C 9088,9095,9097,9099		CKSSYB104K10
C 9089,9805,9815,9824		CCSRCH102J50
C 9096,9098,9100,9103		CCSSCH471J50
C 9104,9106,9108,9112		CKSSYB104K10
C 9105,9109,9113,9115		CCSSCH471J50
C 9114,9116,9306,9308		CKSSYB104K10
C 9117,9318,9827		CCSSCH471J50
C 9317,9319,9329,9330		CKSSYB104K10
C 9331,9809,9810		CEAT102M10-P35
C 9333		CEVW470M6R3
C 9342,9855,9857,9858		CKSQYB475K6R3
C 9346,9576,9588,9594		CKSSYB104K10
C 9360,9838,9842,9913		CCSSCH100D50
C 9577,9579,9583,9585		CCSSCH102J50
C 9591,9593,9598,9603		CCSSCH102J50
C 9592		CKSQYB106K6R3
C 9597		VCH1268
C 9602,9606,9608,9611		CKSSYB105K6R3
C 9604,9612,9851,9872		CKSSYB104K10
C 9605,9607,9609,9613		CCSSCH102J50
C 9616		CKSSYB223K16
C 9618,9804,9806,9811		CCSSCH102J50
C 9802,9831		CCG1233
C 9807,9808		CKSQYB104K25
C 9813,9825,9865		CCSSCH102J50
C 9818,9820		BCG1059
C 9828		CCSRCH102J50
C 9829		CKSQYB475K10
C 9835		CEVW221M4
C 9852,9862,9873,9876		CCSSCH101J50
C 9856		CFHXSQ103J16
C 9859,9870,9898		CKSSYB105K6R3
C 9871,9881,9882		CKSQYB475K6R3
C 9878		CEVW331M6R3
C 9884-9886,9888,9895		CKSQYB475K6R3
C 9891-9893,9897		CCSSCH102J50
C 9894,9896		CKSSYB104K10
C 9899		CKSQYB475K6R3
C 9901-9910		CCSSCH102J50

F FRONT MIC & VIDEO ASSY


SEMICONDUCTORS

IC 3471	NJM4565MD
D 3473-3475	UDZS5R1(B)

MISCELLANEOUS

JA 3471 JACK	VKB1243
JA 3472 JACK	AKB7219
KN3471 WRAPPING TERMINAL	VNF1084
CN3471 CONNECTOR	CKS3372
CN3472 PLUG(3P)	KM200NA3
JH 3001 PCB BINDER	VEF1040

Mark No.	Description	Part No.
RESISTORS		
R 3495		RS1/10SR75R0F
Other Resistors		RS1/10SR###J
CAPACITORS		
C 3473		CKSRYP471K50
C 3474,3483,3484		CEAT100M50
C 3475		CCSRCH101J50
C 3476,3477		CCSRCH330J50
C 3478		CEJQ100M50
C 3480		CEJQ100M16
C 3481,3482,3486		CKSRYP103K50
C 3488		CKSRYP223K50
C 3490		CKSRYP102K50
FRONT HDMI USB ASSY		
SEMICONDUCTORS		
IC 7501		S-24CS02AFT
IC 7502		TC7MB3257FK
IC 7503		CXB1443R
IC 7504		S-1132B33-U5
Q 7501-7503		LTC114YUB
D 7504		1SS301
MISCELLANEOUS		
L 7501,7502,7518 INDUCTOR		CTF1473
L 7510 CHIP BEADS		ATL7010
L 7512-7517,7519 FERRITE BEAD		CTF1528
L 7520 FERRITE BEAD		CTF1528
JA 7501 HDMI CONNECTOR		AKP7254
JA 7502 USB CONNECTOR		XKP3086
JA 7503 HDMI CONNECTOR		AKP7253
KN 7501 WRAPPING TERMINAL		VNF1084
CN 7501 PLUG(5P)		KM200NA5
CN 7504 4P CONNECTOR		VKN1409
JH 7502 PCB BINDER		VEF1040
RESISTORS		
R 7517,7518		RS1/10SR0R0J
R 7528		RS1/16SS4701F
Other Resistors		RS1/16SS###J
CAPACITORS		
C 7508,7509		CCSRCH101J50
C 7510,7522,7535,7537		CCSSCH102J50
C 7511,7516,7519,7521		CKSSYB104K10
C 7512		CCSRCH102J50
C 7513,7524		CCSSCH101J50
C 7517		CKSRYP104K25
C 7518		CEAT221M16
C 7520,7527,7528		CCSSCH471J16
C 7523,7525,7526,7531		CKSSYB104K10
C 7533,7538,7542,7544		CKSSYB104K10
C 7541		CEVW101M16
C 7543		CKSSYB102K50
C 7545,7546		CKSRYP104K50
C 7564		CKSSYB104K10
C 7565,7566,7571		CCSSCH102J50
C 7576		CEAT101M16

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
 POWER AMP ASSY				MISCELLANEOUS			
A		SEMICONDUCTORS		NSP	L	5081,5181,5281 COIL(IN HOUSE)	AWX9630
		IC 5771	NJM4565MD	NSP	L	5381,5481,5581 COIL(IN HOUSE)	AWX9630
	⚠	Q 5001,5101,5201,5301	STD03N	NSP	L	5681 COIL(IN HOUSE)	AWX9630
	⚠	Q 5002,5102,5202,5302	STD03P	L	5921-5923 CHIP SOLID INDUCTOR	QTL1013	
		Q 5041,5141,5241,5341	2SA1255	L	5931 INDUCTOR	CTF1385	
	⚠	Q 5401,5501,5601	STD03N	L	5932-5934 CHIP SOLID INDUCTOR	QTL1013	
	⚠	Q 5402,5502,5602	STD03P	L	5951 CHIP SOLID INDUCTOR	ATL7002	
		Q 5441,5541,5641	2SA1255	JA	5800-5802 SPEAKER TERMINAL 6-P	AKE7108	
		Q 5700,5811,5821,5831	RT1N140M	JA	5804,5807 JACK	AKN-209	
		Q 5701	RN1901	JA	5810-5812 JACK	VKB1243	
		Q 5702,5703	UMD22N	JA	5815 MINI JACK	QKN1013	
B				KN	5800,5901 SCREW PLATE	VNE1948	
	⚠	Q 5705	2SD1763A	RY	5701 RELAY	ASR7032	
	⚠	Q 5706	2SC3906K	RY	5811,5821,5831,5841 RELAY	ASR7001	
	⚠	Q 5707	2SB1186A	RY	5851 RELAY	ASR7001	
	⚠	Q 5708	2SA1514K				
		Q 5709,5783,5784,5822	LTA124EUB	CN	5010,5110,5210 CONNECTOR(05P)	TUC-P05P-B1	
				CN	5310,5410,5510 CONNECTOR(05P)	TUC-P05P-B1	
		Q 5731,5741-5744,5972	LSC4081UB	CN	5610 CONNECTOR(07P)	TUC-P07P-B1	
		Q 5781,5782,5785,5921	LTC124EUB	CN	5701 CONNECTOR	B7P-VH	
		Q 5832,5852,5991	LTA124EUB	CN	5804 7P PLUG	XKP3063	
		Q 5841,5851	RT1N140M	CN	5805 23P PLUG	XKP3071	
		Q 5864,5865	RT3T22M		5000 SMALL HEATSINK V5S(M)	ANH7200	
					5001,5002 SCREW	BBZ30P080FCC	
C					5010,5012 HEAT SINK B	ANH1021	
		Q 5922,5952,5954,5956	LSA1576UB		5011,5013 SCREW	IBZ30P080FCC	
		Q 5951,5953,5955	LTC124EUB	JH	5951,5953,5954 PCB BINDER	VEF1040	
		Q 5971	RSR015P03	JP	5722,5723 AWG14 BOARD IN	ADX7461	
		Q 5973	LSA1576UB	⚠	P 5001,5002 PROTECTOR(7A)	AEK7047	
		Q 5974	LSC4081UB	⚠	P 5003 PROTECTOR(1A)	AEK7009	
	⚠	D 5003,5004,5103,5104	1SS352	⚠	P 5004 PROTECTOR(1A)	AEK7064	
	⚠	D 5005,5006,5105,5106	UDZS4R7(B)	RESISTORS			
	⚠	D 5041-5044,5141-5144	1SS352	⚠	R 5025,5026,5125,5126	ACN7132	
	⚠	D 5203,5204,5303,5304	1SS352	⚠	R 5027,5127,5227,5327	ACN7163	
	⚠	D 5205,5206,5305,5306	UDZS4R7(B)	⚠	R 5081,5181,5281,5381	RS1/2LMF4R7J	
				⚠	R 5082,5182,5282,5382	RS1LMF100J	
				⚠	R 5225,5226,5325,5326	ACN7132	
D				⚠	R 5425,5426,5525,5526	ACN7132	
	⚠	D 5241-5244,5341-5344	1SS352	⚠	R 5427,5527,5627	ACN7163	
	⚠	D 5403,5404,5503,5504	1SS352	⚠	R 5481,5581,5681	RS1/2LMF4R7J	
	⚠	D 5405,5406,5505,5506	UDZS4R7(B)	⚠	R 5482,5582,5682	RS1LMF100J	
		D 5441-5444,5541-5544	1SS352	⚠	R 5625,5626	ACN7132	
	⚠	D 5603,5604	1SS352				
	⚠	D 5605,5606	UDZS4R7(B)	⚠	R 5701,5702	RS1LMF472J	
		D 5641-5644,5701,5702	1SS352	⚠	R 5703,5704	RS1/2LMF332J	
	⚠	D 5703	S1WB(A)60SD	⚠	R 5721,5722	RD1/4MUF473J	
		D 5705,5708,5710	UDZS8R2(B)	⚠	R 5790	RD1/4MUF100J	
		D 5706,5782	UDZS7R5(B)		Other Resistors	RS1/10SR###J	
		D 5707,5709	UDZS9R1(B)				
		D 5711,5712	UDZS6R8(B)				
E		D 5713,5714	UDZS12(B)				
		D 5715,5719,5720	UDZS13(B)				
		D 5716	UDZS15(B)				
	⚠	D 5717,5718	1SR154-400				
		D 5721,5722,5783,5784	1SS352				
		D 5773,5781	UDZS5R1(B)				
	⚠	D 5790,5791	D5SBA20(B)				
		D 5811,5812,5821,5822	1SS352				
		D 5831,5832,5841,5842	1SS352				
		D 5851,5852,5865,5921	1SS352				
		D 5922	1SS352				
F		D 5923,5931	MC2848-11				
		D 5934,5935	1SS357				
		D 5971	RB411D				

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
C	5483,5583,5683,5811		CFTLA103J2A	R	6030,6130,6230,6330		RN1/16SE1001D
C	5611,5612		ACG7056	R	6031,6131,6231,6331		RN1/16SE1500D
C	5681,5682		CFTLA104J50	⚠	R 6223,6224,6323,6324		RD1/4MUF4R7J
C	5703,5704		CEAT471M2A	R	6407,6507,6607		RS1/10SR2001F
C	5705,5706		CEAT101M63	R	6409,6509,6609		RD1/2VM473J
C	5707,5708		CEAT221M2A	R	6411,6511,6611		RN1/16SE1201D
C	5721,5722		ACH7258	⚠	R 6423,6424,6523,6524		RD1/4MUF4R7J
C	5723		CEAT100M63	R	6429,6529,6629		RN1/10SE3302D
C	5725,5726,5729,5730		CEATR47M2A	R	6430,6530,6630		RN1/16SE1001D
C	5731		CKSRBY223K50	R	6431,6531,6631		RN1/16SE1500D
C	5741,5743		CEAT331M10	⚠	R 6623,6624		RD1/4MUF4R7J
C	5771,5772,5774,5781		CKSRBY103K50	Other Resistors			RS1/10SR###J
C	5773,5972		CEAT100M50				
C	5782		CKSRBY105K10				
C	5790,5791		CFTLA104J2A				
C	5812		CFTLA103J2A				
C	5891		CEAT101M50				
C	5922,5931,5932,5935		CKSRBY103K50				
C	5923,5937,5951		CKSRBY104K16				
C	5924,5936		CCSRCH471J50				
C	5933,5934		CKSRBY153K50				
C	5953,5954		CKSRBY103K50				
C	5955		CKSRBY102K50				
C	5957		CKSRBY472K50				
C	5973		CEAT470M25				
C	5977,5978		CKSQYB105K16				

I PRESTAGE ASSY SEMICONDUCTORS

Q	6001,6101,6201,6301	2SD2704K
Q	6002,6102,6202,6302	IMT4
Q	6003,6103,6203,6303	2SA1514K
⚠	Q 6004,6104,6204,6304	2SA1145
Q	6005,6105,6205,6305	2SC2705
Q	6401,6501,6601	2SD2704K
Q	6402,6502,6602	IMT4
Q	6403,6503,6603	2SA1514K
⚠	Q 6404,6504,6604	2SA1145
Q	6405,6505,6605	2SC2705
⚠	D 6001,6101,6201,6301	UDZS3R6(B)
⚠	D 6002,6102,6202,6302	1SS352
⚠	D 6401,6501,6601	UDZS3R6(B)
⚠	D 6402,6502,6602	1SS352

MISCELLANEOUS

CN 6010,6110,6210 CONNECTOR(05P)	TUC-P05X-B1
CN 6310,6410,6510 CONNECTOR(05P)	TUC-P05X-B1
CN 6603 CONNECTOR	CKS3384
CN 6610 CONNECTOR(07P)	TUC-P07X-B1
JH 6001,6002 PCB BINDER	VEF1040

RESISTORS

R	6007,6107,6207,6307	RS1/10SR2001F
R	6009,6109,6209,6309	RD1/2VM473J
R	6011,6111,6211,6311	RN1/16SE1201D
⚠	R 6023,6024,6123,6124	RD1/4MUF4R7J
R	6029,6129,6229,6329	RN1/10SE3302D

R	6030,6130,6230,6330	RN1/16SE1001D
R	6031,6131,6231,6331	RN1/16SE1500D
⚠	R 6223,6224,6323,6324	RD1/4MUF4R7J
R	6407,6507,6607	RS1/10SR2001F
R	6409,6509,6609	RD1/2VM473J
R	6411,6511,6611	RN1/16SE1201D
⚠	R 6423,6424,6523,6524	RD1/4MUF4R7J
R	6429,6529,6629	RN1/10SE3302D
R	6430,6530,6630	RN1/16SE1001D
R	6431,6531,6631	RN1/16SE1500D
⚠	R 6623,6624	RD1/4MUF4R7J
Other Resistors		RS1/10SR###J
CAPACITORS		
C	6001,6101,6201,6301	CEHAT4R7M50
C	6002,6102,6202,6302	CCSRCH221J50
C	6004,6104,6204,6304	CKSRBY102K50
C	6005,6006,6015,6016	CCSRCH220J50
C	6007,6107,6207,6307	CEHAT101M10
C	6008,6108,6208,6308	ACG7057
C	6009,6109,6209,6309	CEHAT100M2A
C	6010,6110,6210,6310	CCSRCH101J50
C	6017,6117,6217,6317	CEHAT331M10
C	6023,6024,6123,6124	CEHAT100M63
C	6032,6132,6232,6332	CKSRBY224K16
C	6105,6106,6115,6116	CCSRCH220J50
C	6205,6206,6215,6216	CCSRCH220J50
C	6223,6224,6323,6324	CEHAT100M63
C	6305,6306,6315,6316	CCSRCH220J50
C	6401,6501,6601	CEHAT4R7M50
C	6402,6502,6602	CCSRCH221J50
C	6404,6504,6604	CKSRBY102K50
C	6405,6406,6415,6416	CCSRCH220J50
C	6407,6507,6607	CEHAT101M10
C	6408,6508,6608	ACG7057
C	6409,6509,6609	CEHAT100M2A
C	6410,6510,6527,6610	CCSRCH101J50
C	6417,6517,6617	CEHAT331M10
C	6423,6424,6523,6524	CEHAT100M63
C	6432,6532,6632	CKSRBY224K16
C	6505,6506,6515,6516	CCSRCH220J50
C	6605,6606,6615,6616	CCSRCH220J50
C	6623,6624	CEHAT100M63

J DISPLAY ASSY

SEMICONDUCTORS

IC	3001	PDC197A8
IC	3002	PST8248N
⚠	IC 3003	S-1200B33-M5
IC	3201	PE5615A
Q	3004	SSM3K15FU
Q	3203-3213	LTC124EUB
D	3002	RB751V-40
D	3003	DAN217U
D	3004,3008	MC2848-11
D	3005	MC2846-11

Mark	No.	Description	Part No.
	D	3006	1SS302
	D	3204,3206,3208,3210	SLR343BC4T(JKLM)
	D	3212,3214	SLR343BC4T(JKLM)
A	D	3216	SLR343WBCT(MNPQ)

MISCELLANEOUS

L	3001	CHIP SOLID INDUCTOR	ATL7002
KN	3201	FL HOLDER(FE)	VNF1096
V	3301	FL TUBE DISPLAY	AAV7115
S	3001-3015	SWITCH	ASG7029
S	3016	ROTARY ENCODER	ASX7049

X	3001	CRYSTAL OSCILLATOR (15.0 MHz)	CSS1653
X	3201	CERAMIC RESONATOR (5.00 MHz)	VSS1142
CN	3001	39P CONNECTOR	VKN2097
CN	3002	9P CONNECTOR	VKN1269
CN	3003	4P CONNECTOR	VKN1819

RESISTORS

All Resistors	RS1/10SR###J
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MISCELLANEOUS

JH	3002	4P CABLE HOLDER	51048-0400
JH	3003	3P CABLE HOLDER	51048-0300
JP	3001	CONNECTOR ASSY	PF07PG0S17
JP	3002	JUMPER WIRE	D20PYY0405E
JP	3003	JUMPER WIRE	D20PYY0305E

U	3201	REMOTE RECEIVER UNIT	GP1UE274XKC1
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CAPACITORS

C	3002,3009,3013,3017	CKSRYB104K16
C	3003	CKSRYB105K16
C	3004,3005	CCSRCH120J50
C	3006,3008,3010,3302	CKSRYB471K50
C	3007,3020,3021,3209	CKSRYB105K10

C	3011	CCSRCH101J50
C	3012	CKSRYB472K50
C	3014-3016	CKSRYB473K50
C	3018,3033,3034,3045	CKSRYB103K50
C	3019,3208	CEJQ221M6R3

C	3022,3023,3038,3202	CKSRYB104K16
C	3025-3027,3307	CKSRYB104K50
C	3035	CKSRYB103K16
C	3037	CCSRCH102J50
C	3048,3338,3340,3343	CCSRCH100D50

C	3201,3221-3223,3303	CKSRYB102K50
C	3204,3207	CKSRYB104K16
C	3205	CCSRCH471J50
C	3211	CEJQ101M6R3
C	3212,3335-3337,3341	CKSRYB103K50

C	3213	CEAL101M10
C	3214,3216,3217,3220	CCSRCH221J50
C	3215,3218,3219	CCSRCH470J50
C	3301,3327	CEAT101M35
C	3305,3308,3328	CEAT470M50

C	3306	CKSRYB102K50
C	3311-3326	CKSRYB471K50
C	3339	CCSRCK2R0C50

Mark	No.	Description	Part No.
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K PRIMARY ASSY**SEMICONDUCTORS**

⚠	IC	1	MIP4150MD
⚠	IC	52	NJM1431AF
	Q	71	2SD2704K
⚠	D	1	D2SB60A
⚠	D	2	RD2ALF-A1
⚠	D	3	1SS403
⚠	D	4	RB751V-40
⚠	D	50	SBT250-06J
	D	71,72	1SS352

MISCELLANEOUS

⚠	L	1	LINE FILTER	ATF7049
⚠	L	51	COIL	ATH7080
⚠	L	71	LINE FILTER	XTF3004
	H	1,2,71,72	FUSE CLIP	AKR1004
⚠	JA	71	AC INLET ASSY	ADX7464

	KN	1,2	SCREW PLATE	VNE1948
	KN	50,51	WRAPPING TERMINAL	VNF1084
	KN	52	SCREW PLATE(MTL)	ANG7591
⚠	RY	71	POWER RELAY	ASR7034
⚠	T	1	POWER TRANSFORMER	ATK7003

⚠	CN	81	CONNECTOR(VH)	B3P5-VH
	0		HEAT SINK(AL)	ANH7223
	0		HEAT SINK(AL)	ANH7224
	0		SCREW	BBZ30P080FCC
	JP	51	7P HOUSING ASSY	ADX7738

⚠	PC	1	PHOTO COUPLER	TLP781(GR)
⚠	VA	1	VARISTOR	TND10V-51TKB00AAA0

RESISTORS

⚠	R	1,12	RS2LMF683J
⚠	R	9-11	ACN7173
	R	14	RS1/10SR1001F
	R	53	RS1/10SR1202F
	R	54	RS1/10SR7500F
	R	56	RS1/10SR1002F
	R	59	RS1/8SQ475J
	Other Resistors		RS1/10SR###J

CAPACITORS

⚠	C	1	ACE7043
⚠	C	3	ACH7342
⚠	C	4	ACE7083
⚠	C	5	ACG7102
	C	6	CKSQYB105K25

⚠	C	7	ACH7343
	C	8,53	CKSRYB104K50
	C	9	CCSRCH100D50
	C	10	CEAT2R2M2A
	C	13	CCSRCH102J50

⚠	C	18,20	VCG1046
⚠	C	51	ACH7345
⚠	C	52	BCH1044
	C	55	CKSRYB102K50
	C	56	CKSRYB104K16

⚠	C	71,72	ACE7013
⚠	C	73	XCG3010
	C	74,75	CCSRCH101J50

Mark No. Description Part No.

L USB REGULATOR ASSY

SEMICONDUCTORS

△ IC 4701	NJM2389F
△ Q 4701	2SD1763A
Q 4702	LSC4081UB
△ D 4701	D3SBA20(B)
D 4702	PTZ9R1(B)

MISCELLANEOUS

H 4701,4702 FUSE CLIP	AKR1004
CN4702 PLUG(8P)	KM200NA8
JH 4701 PCB BINDER	VEF1040

RESISTORS

R 4705	RS1/10SR3001D
R 4706	RS1/10SR1200D
R 4707	RS1/10SR1001D
Other Resistors	RS1/10SR###J

CAPACITORS

C 4701	CFTLA104J50
C 4703	CEAT332M25
C 4705	CKSRYB104K25
C 4706	CEAT101M25
C 4707	CKSRYB334K25
C 4708	CEAT101M50
C 4709	CKSRYB104K50
C 4710,4713	CCSRCH101J50
C 4714,4715	CCSRCH102J50

M XM REGULATOR ASSY

MISCELLANEOUS

CN4301 2P TOP POST	B2B-EH
JH 4301-4303 PCB BINDER	VEF1040
JP 4303 CONNECTOR ASSY	PF08GG0S10

N REGULATOR ASSY

SEMICONDUCTORS

△ IC 4001	NJM78M05FA
△ IC 4002	NJM79M05FA
△ IC 4021	NJM78M09FA
△ IC 4101,4121	NJM78M12FA
△ IC 4102	NJM79M12FA

△ D 4001	D3SBA20(B)
D 4003,4004,4105,4106	RB501V-40
△ D 4051-4053,4101-4104	1SR154-400
D 4054,4056	UDZS5R1(B)
D 4055	PTZ22(B)

D 4121	RB501V-40
D 4123	UDZS3R3(B)
D 4124	1SS352
△ D 4125-4127	1SR154-400

MISCELLANEOUS

H 4001-4004,4101-4104 FUSE CLIP	AKR1004
CN4001 CONNECTOR	B6B-EH
CN4002,4102 PLUG(6P)	KM200NA6
CN4052 PLUG(7P)	KM200NA7
CN4101 5P TOP POST	B5B-EH

Mark No. Description Part No.

JH 4101-4105 PCB BINDER	VEF1040
JP 4103 CONNECTOR ASSY	PF04GG0S25

RESISTORS

△ R 4001	RD1/4MUF4R7J
R 4052	RD1/4MUF391J
R 4057	RS1/8SQ225J
Other Resistors	RS1/10SR###J

CAPACITORS

C 4002,4060	CFTLA104J50
C 4007	CEAT682M16
C 4008	CEAT222M16
C 4011,4012,4021,4057	CKSRYB103K50
C 4013,4014,4054	CEAT101M16

C 4022	CEAT101M25
C 4051	CEANP101M35
C 4052	CEAT101M35
C 4053	CEAT221M35
C 4055	CEAT470M50

C 4101	CFTLA394J50
C 4102-4105	CKSRYB473K50
C 4107	CEAT222M25
C 4108	CEAT332M25
C 4109,4110,4121,4124	CKSRYB103K50

C 4111,4112	CEAT221M25
C 4117,4118	CKSRYB104K50
C 4122	CEAT100M50
C 4125	CEAK102M35
C 4126	CEAK471M35

C 4127	CKSRYB103K50
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O POWER SW ASSY

SEMICONDUCTORS

Q 3401	LTC143EUB
D 3402	SLR343BC4T(JKLM)

MISCELLANEOUS

S 3401 SWITCH	ASG7029
CN3401 4P JUMPER CONNECTOR	52147-0410

RESISTORS

All Resistors	RS1/10SR###J
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CAPACITORS

C 3401	CCSRCH221J50
C 3402	CKSRYB104K16

P ENCODER ASSY

MISCELLANEOUS

S 3501 ROTARY ENCODER	ASX7051
CN3501 3P JUMPER CONNECTOR	52147-0310

RESISTORS

All Resistors	RS1/10SR###J
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CAPACITORS

C 3501,3502	CKSRYB103K50
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Mark No. Description **Part No.**

Mark No. Description **Part No.**

Q HEADPHONE ASSY

V POSI 1 ASSY

SEMICONDUCTORS

⚠ TH 7001 PTFM04BB222Q2N34BS

MISCELLANEOUS

CN 7001 CONNECTOR ASS'Y PG02KA-F07

MISCELLANEOUS

JA 3451 PHONE JACK AKN7029
KN 3451 WRAPPING TERMINAL VNF1084
CN 3451 4P JUMPER CONNECTOR 52147-0410

RESISTORS

All Resistors RS1/10SR###J

CAPACITORS

C 3451,3452 CKSRYB822K50
C 3456 CKSRYB103K50
C 3457 CKSRYB471K50

W POSI 2 ASSY

SEMICONDUCTORS

⚠ TH 7002 PTFM04BE222Q2N34BS

MISCELLANEOUS

CN 7002 CONNECTOR ASS'Y PG02KA-F07

R CONNECT ASSY

MISCELLANEOUS

CN 3361,3362 20P PLUG AKM7171
CN 3363 23P SOCKET XKP3082
CN 3364 7P SOCKET XKP3074

RESISTORS

All Resistors RS1/10SR###J

MISCELLANEOUS

JP 3365 CONNECTOR ASSY PF08PG0S30

CAPACITORS

C 3371 CCSRCH100D50

X POSI 3 ASSY

SEMICONDUCTORS

⚠ TH 7003 PTFM04BG222Q2N34BS

MISCELLANEOUS

CN 7003 CONNECTOR ASS'Y PG03KA-F10

JP 3365 CONNECTOR ASSY PF08PG0S30

CAPACITORS

C 3371 CCSRCH100D50

Y BIND L FRONT ASSY

MISCELLANEOUS

JH 5961,5962 PCB BINDER VEF1040

S A-DAC BRIDGE ASSY

MISCELLANEOUS

CN 3791,3792 14P PLUG AKM7170
CN 3793,3794 24P PLUG AKM7173

Z BIND L BACK ASSY

MISCELLANEOUS

JH 5522,5523 PCB BINDER VEF1040

T D-AUDIO BRIDGE ASSY

MISCELLANEOUS

CN 3771,3772 11P PLUG XKP3065
CN 3773,3774 15P PLUG XKP3067

AA BINDER ASSY

MISCELLANEOUS

JH 3901 PCB BINDER VEF1040

CAPACITORS

C 3771,3774 CCSRCH101J50
C 3772,3773 CCSRCH102J50

AB BIND DM CABLE ASSY

MISCELLANEOUS

JH 5551 PCB BINDER VEF1040

U D-DAC BRIDGE ASSY

MISCELLANEOUS

CN 3781-3784 PLUG (30P) BKM1035
CN 3785 3P PLUG XKP3061

AC BIND R BACK ASSY

MISCELLANEOUS

JH 5531 PCB BINDER VEF1040

AD BIND R FRONT ASSY

MISCELLANEOUS

JH 5511 PCB BINDER VEF1040

Mark No. Description _____ Part No. _____

AE BIND DISP FFC ASSY

MISCELLANEOUS

JH 5541 PCB BINDER VEF1040

AF BLUETOOTH ASSY

SEMICONDUCTORS

IC 101 NJM2872BF33

IC 102 NJM2100V

IC 103 AXF7018

Q 101 2SC4081

Q 102 RSR015P03

D 102 1SS352

MISCELLANEOUS

L 101 CHIP COIL BTH1104

L 102 CHIP ANTENNA ATX7013

JA 101 18P CONNECTOR AKP7230

JA 102 CONNECTOR CKS5537

RESISTORS

R 141 RS1/10SR0R0J

Other Resistors RS1/16SS###J

CAPACITORS

C 101 CKSSYB104K16

C 103,114,115,118 CKSSYB103K16

C 104-106 CKSRYB105K6R3

C 107,122 CKSSYB104K10

C 108 CSZFSR470M6R3

C 109-112,123 DCH1200

C 113 CKSRYB563K16

C 117,127,128 CKSSYB105K6R3

C 119 CCSSCH330J50

C 120,121,130 CKSSYB103K16

C 129 DCH1201

FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service parts.