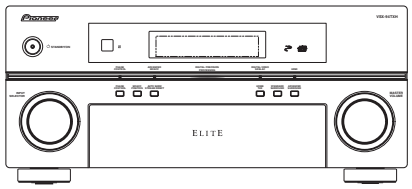
Pioneer *sound.vision.soul*

Service Manual



VSX-94TXH

ORDER NO.
RRV3629

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-94TXH
VSX-92TXH

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

Model	Type	Power Requirement	Remarks
VSX-94TXH	KUXJ/CA	AC 120 V	
VSX-92TXH	KUXJ/CA	AC 120 V	

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

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ⓒ**PIONEER CORPORATION 2007**

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SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

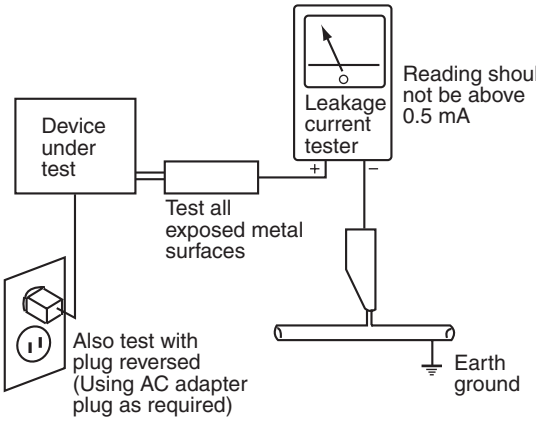
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[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 ºC.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 ºC 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.

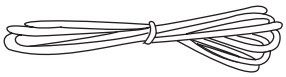
Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

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.

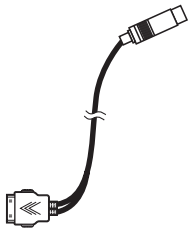
2. SPECIFICATIONS

2.1 ACCESSORIES

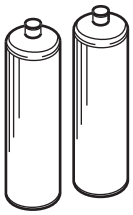
AM Loop Antenna
(ATB7013)



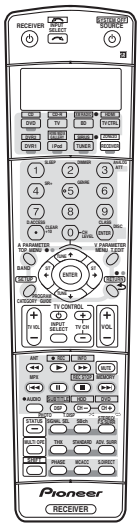
FM Wire Antenna
(ADH7030)



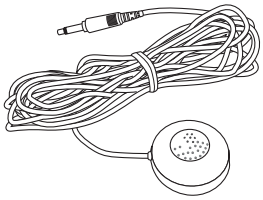
Audio Control Cable for iPod
(XDE7025)



AA/IEC R6P Dry Cell Batteries
(VEM1031)



Remote Control Unit
(VSX-94TXH : AXD7504)
(VSX-92TXH : AXD7501)



Setup Microphone
(for Auto MCACC setup)
(APM7008)

2.2 SPECIFICATIONS

Amplifier section

Continuous average power output of 140 (or 130) watts* per channel, min., at 8 ohms, from 20 Hz to 20 000 Hz with no more than 0.09 % total harmonic distortion (front).**

Continuous Power Output (20 Hz to 20 kHz, 8 Ω, 0.09 %)

Front .....130 W + 130 W (92TXH), 140 W + 140 W (94TXH)
Center.....130 W (92TXH), 140 W (94TXH)
Surround..... 130 W + 130 W (92TXH)
140 W + 140 W (94TXH)
Surround back ..... 130 W + 130 W (92TXH)
140 W + 140 W (94TXH)

Continuous Power Output (1 kHz, 6 Ω, 1.0 %)

Front .....160 W + 160 W (92TXH), 180 W + 180 W (94TXH)
Center.....160 W (92TXH), 180 W + 180 W (94TXH)
Surround..... 160 W + 160 W (92TXH)
180 W + 180 W (94TXH)
Surround back ..... 160 W + 160 W (92TXH)
180 W + 180 W (94TXH)
Total harmonic distortion .....0.05 %
(20 Hz to 20 kHz, 120 W, 8 Ω) (92TXH)
(20 Hz to 20 kHz, 130 W, 8 Ω) (94TXH)

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers
** Measured by Audio Spectrum Analyzer

Audio Section

Input (Sensitivity/Impedance)
LINE..... 335 mV/47 kΩ
Frequency Response (LINE)..... 5 Hz to 100 000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)
REC ..... 335 mV/2.2 kΩ
Tone Control
BASS .....± 6 dB (100 Hz)
TREBLE ..... ± 6 dB (10 kHz)
LOUDNESS..... +4 dB / +2 dB (100 Hz / 10 kHz)
(at volume position –40 dB)
Signal-to-Noise Ratio (IHF, short circuited, A network)
LINE.....103 dB
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]
LINE.....83 dB

Composite Video / S-Video Section

Input (Sensitivity/Impedance) ..... 1 Vp-p/75 Ω
Output (Level/Impedance)..... 1 Vp-p/75 Ω
Signal-to-Noise Ratio..... 65 dB
Frequency Response .....5 Hz to 10 MHz

Component Video Section

Input (Sensitivity/Impedance) ..... 1 Vp-p/75 Ω
Output (Level/Impedance)..... 1 Vp-p/75 Ω
Signal-to-Noise Ratio..... 65 dB
Frequency Response .....5 Hz to 100 MHz

FM Tuner Section

Frequency Range.....87.5 MHz to 108 MHz
Usable Sensitivity .....Mono: 13.2 dBf, IHF (1.3 µV/75 Ω)
50 dB Quieting Sensitivity ..... Mono: 20.2 dBf
Stereo: 38.6 dBf
Signal-to-Noise Ratio.....Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Distortion ..... Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity .....60 dB (400 kHz)
Stereo Separation.....40 dB (1 kHz)
Frequency Response .....30 Hz to 15 kHz ± 1 dB
Antenna Input ..... 75 Ω unbalanced

AM Tuner Section

Frequency Range..... 530 kHz to 1700 kHz
Sensitivity (IHF, Loop antenna) ..... 350 µV/m
Selectivity ..... 25 dB
Signal-to-Noise Ratio..... 50 dB
Antenna .....Loop antenna

Miscellaneous

Power Requirements.....AC 120 V, 60 Hz
Power Consumption .....530 W, 690 VA
In standby..... 0.55 W (HDMI Control OFF)
0.75 W (HDMI Control ON)
AC Outlet..... (switched) 100 W MAX.
Dimensions..... 420 (W) mm x 187 (H) mm x 459 (D) mm
(16 $^{9}/_{16}$ (W) in. x 7 $^{3}/_{8}$ (H) in. x 18 $^{1}/_{16}$ (D) in.)
Weight (without package).....17.0 kg (37.5 lb)

Furnished Parts

Setup microphone (for Auto MCACC setup) 1
AA/IEC R6P dry cell batteries 2
Remote control unit 1
AM loop antenna 1
FM wire antenna.....1
iPod control cable 1
Warranty card.....1
These operating instructions
Operating instructions for HOME MEDIA GALLERY (VSX-94TXH only)

Note

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

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", "Surround EX", and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" is a registered trademark of DTS, Inc. and "DTS-HD Master Audio" is a trademark of DTS, Inc.

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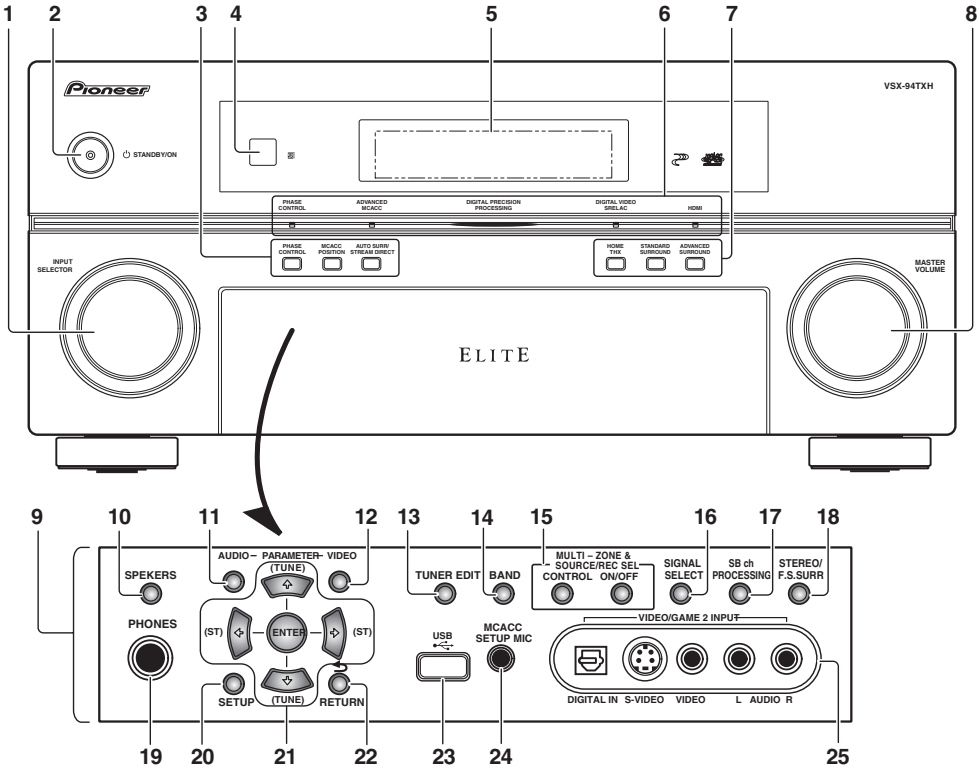
2.3 PANEL FACILITIES

● Front Panel

Illustration shows the VSX-94TXH front panel



1 INPUT SELECTOR dial
Use to select an input source.

2 ⏻ STANDBY/ON
Switches the receiver between on and standby. Power indicator lights when the receiver is on.

3 PHASE CONTROL – Press to switch on/off Phase Control or Full Band Phase Control.

MCACC POSITION – Press to switch between MCACC presets.

AUTO SURR/STREAM DIRECT – Press to select Auto Surround or Stream Direct listening.

4 Remote sensor
Receives the signals from the remote control.

5 Character display

6 PHASE CONTROL indicator – Lights to indicate Phase Control or Full Band Phase Control is selected.

ADVANCED MCACC indicator – Lights when one of the MCACC presets is selected.[1]

Digital Precision Processing indicator – Lights to indicate digital processing (for example, it disappears when Pure Direct is on, or when listening through the multichannel analog inputs).

DIGITAL VIDEO SCALER indicator – Lights when Resolution is set to a setting other than **PURE** (for example, when the video input signal is upscaled).

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

7 Listening mode buttons

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

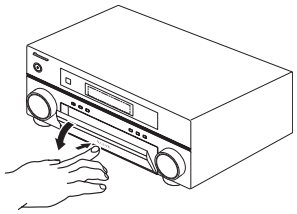
STANDARD SURROUND – Press for Standard decoding and to switch between the various Pro Logic IIx and Neo:6 options.

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

8 MASTER VOLUME dial

9 Front panel controls

To access the front panel controls, push gently on the lower third portion of the panel with your finger.



10 SPEAKERS

Use to change the speaker system.

11 AUDIO PARAMETER

Use to access the Audio options.

12 VIDEO PARAMETER

Use to access the Video options.

13 TUNER EDIT

Use with ⬅/➡ to memorize and name stations for recall.

14 BAND

Switches between AM and FM radio bands.

15 MULTI-ZONE & SOURCE/REC SEL controls

If you've made MULTI-ZONE connections use these controls to control the sub zone from the main zone. You will also need to use the **REC SEL** controls when recording a source.

16 SIGNAL SELECT

Use to select an input signal.

17 SBch PROCESSING

Selects the surround back channel mode or virtual surround back mode.

18 STEREO/F.S.SURR

Switches between the stereo playback mode and the Front Stage Surround Advance mode.

19 PHONES jack

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

20 SETUP

Press to access the System Setup menu.

21 ⬅➡⬇⬆ (TUNE/ST) /ENTER

Use the arrow buttons when setting up your surround sound system. Use the **TUNE** ⬆/⬇ buttons to find radio frequencies and use **ST** ⬅/➡ to find preset stations.

22 RETURN

Press to confirm and exit the current menu screen.

23 USB interface (VSX-94TXH only)

Connect a USB audio device for playback.
See the separate manual for HOME MEDIA GALLERY.

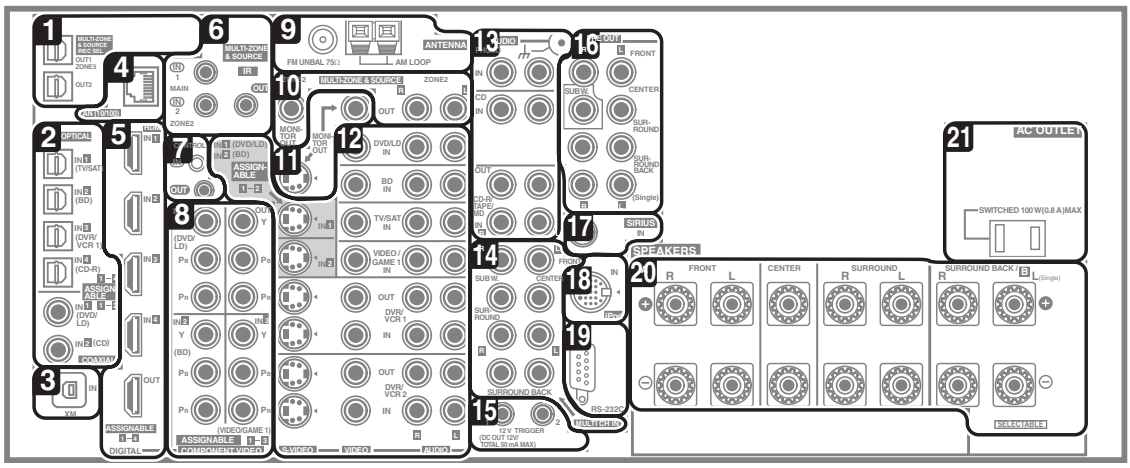
24 MCACC SETUP MIC jack

Use to connect the supplied microphone.

25 VIDEO/GAME 2 INPUT

● Rear Panel

This illustration shows the VSX-94TXH, however connections for the 92TXH are the same except where noted.



Caution

- Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in should be the final step.

1 Optical digital audio output(s)
Use the **OUT1** and (VSX-94TXH only) **OUT2** jack for recording to a CD or MiniDisc recorder.

The **OUT1** jack is also used for MULTI-ZONE connections.

2 Optical and coaxial digital audio inputs (x6)
Use for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

3 XM Radio input

4 LAN (10/100) terminal (VSX-94TXH only)
→ For details, refer to the supplied operating instructions for HOME MEDIA GALLERY.

5 HDMI connectors (x4) (VSX-92TXH) **(x5)** (VSX-94TXH)
Multiple inputs and one output for high-quality audio/video connection to compatible HDMI devices.

6 Remote inputs (MULTI-ZONE and source)
Use for connection to an external remote control sensor for use in a MULTI-ZONE setup, for example.

7 Control input/output
Use to connect other Pioneer components so that you can control all your equipment from a single IR remote sensor.

8 Component video connections (x4)
Use the inputs to connect any video source that has component video output, such as a DVD recorder. Use the output for connection to a monitor or TV.

9 AM and FM antenna terminals
Use to connect indoor or outdoor antennas for radio broadcasts.

10 MULTI-ZONE and source outputs
Use to connect a second amplifier in a separate room.

11 Composite and S-video monitor outputs
Use to connect monitors and TVs.

12 Audio/video source inputs/(outputs) (x6)
Use for connection to audio/visual sources, such as DVD players/recorders, VCRs, etc. Each set of inputs has jacks for composite video, S-video[1] and stereo analog audio.

13 Stereo analog audio source inputs/(outputs) (x3)
Use for connection to audio sources such as CD players, tape decks, turntables, etc.

14 Multichannel analog audio inputs
7.1 channel inputs for connection to a DVD player with multichannel analog outputs.

15 12 V trigger jacks (total 50 mA max.) **(x2)**
Use to switch components in your system on and off according to the input function of the receiver.

16 Multichannel pre-amplifier outputs
Use to connect separate amplifiers for center, surround, surround back and subwoofer channels.

17 SIRIUS Radio input

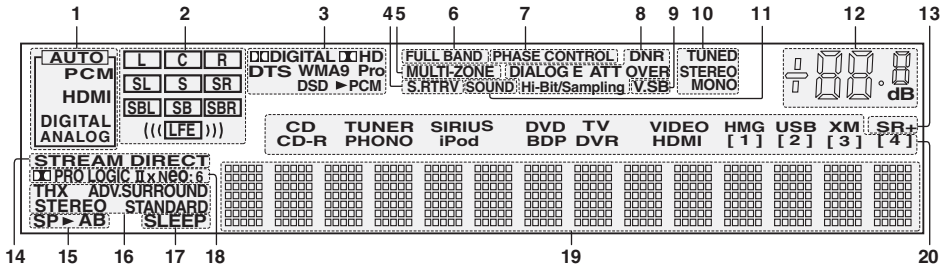
18 iPod input terminal
Use to connect your Apple iPod as an audio or video source.

19 RS-232C connector
Use for connection to a PC for graphical output when using Advanced MCACC or Full Band Phase Control.

20 Speaker terminals
Use for connection to the main front, center, surround and surround back speakers.

21 Switched AC power outlet (100 W/0.8 A max.)
Use to power another component in the system. Power to the outlet switches on and off with the receiver.

● Display



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
These change according to which channels are active in digital sources.

L – Left front channel
C – Center channel
R – Right front channel
SL – Left surround channel
S – Surround channel (mono)
SR – Right surround channel
SBL – Left surround back channel
SB – Surround back channel (mono)
SBR – Right surround back channel
LFE – Low frequency effects channel (the **((( )))** indicators light when an LFE signal is being input)

3 Digital format indicators
Light when a signal encoded in the corresponding format is detected (**DSD►PCM** lights during DSD (Digital Stream Direct) to PCM conversion with SACDs).

4 S.RTRV
Lights when the Sound Retriever is switched on and/or **ANALOG ATT**.

5 MULTI-ZONE
Lights when the MULTI-ZONE feature is active.

6 FULL BAND
Lights when the Full Band Phase Control is switched on.

7 PHASE CONTROL
Lights when the Phase Control or Full Band Phase Control is switched on.

8 Sound processing indicators
Light according to the active Audio parameter(s) and/or ANALOG ATT.

9 V.SB
Lights during Virtual surround back processing.

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 the **MPX** button.

11 SOUND
Lights when any of the Midnight, Loudness or tone controls feature is selected.

12 Master volume level
Shows the overall volume level. **–80dB** indicates the minimum level, and **+12dB** indicates the maximum level.

13 SR+
Lights when the SR+ mode is switched on.

14 STREAM DIRECT
Lights when Direct/Pure Direct is selected.

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

16 Listening mode indicators
THX – Lights when one of the Home THX modes 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.

17 SLEEP
Lights when the receiver is in sleep mode.

18 Matrix decoding format indicators
PRO LOGIC IIx – This lights to indicate Pro Logic II / Pro Logic IIx decoding.

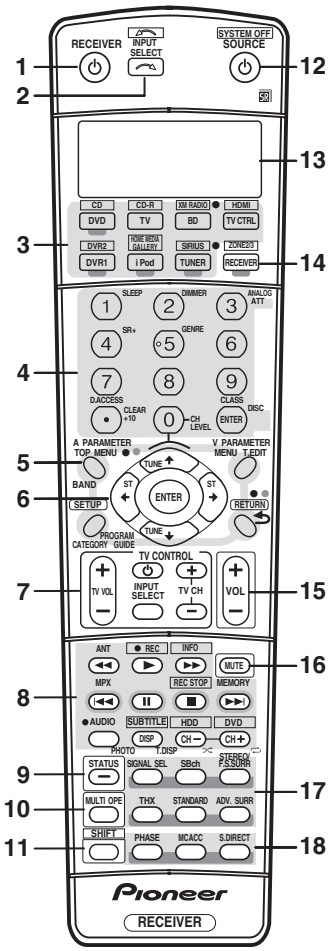
Neo:6 – When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo:6 processing.

19 Character display
Displays various system information.

20 Input source indicators
Light to indicate the input source you have selected.

● Remote Control

Illustration shows the VSX-94TXH remote control



The remote has been conveniently color-coded according to component control using the following system (press the corresponding input source button to access):

- **Green** – Receiver controls (see below)
- **Red** – DVD controls
- **Blue** – Tuner, XM and SIRIUS Radio controls
- **Yellow** – iPod controls
- **White** – Other controls

1 RECEIVER⏻
This switches between standby and on for this receiver.

2 INPUT SELECT
Use to select the input source (use **SHIFT** for **INPUT SELECT**).

3 Input source buttons
Press to select control of other components.

4 Number buttons and other receiver/component controls
Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc.

DISC (ENTER) can be used to enter commands for TV or DTV, and also to select a disc in a multi-CD player.

Press **RECEIVER** first to access:

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

DIMMER – Dims or brightens the display.

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

SR+ – Switches the SR+ mode on/off.

GENRE – Automatically selects the most appropriate Advanced Surround mode for the genre of the source currently being played back (this feature is available only when a Pioneer DVD recorder supporting HDMI Control is connected to this receiver via HDMI).

CH LEVEL – Press repeatedly to select a channel, then use ⬅/➡ to adjust the level.

Press **TUNER** first to access:

D.ACCESS – After pressing, you can access a radio station directly using the number buttons.

CLASS – Switches between the three banks (classes) of radio station presets.

5 Tuner/component control buttons/SETUP
These button controls can be accessed after you have selected the corresponding input source button (**DVD**, **DVR1**,**TV**, etc.). Press **RECEIVER** first to access the following controls:

A PARAMETER – Use to access the Audio options.

V PARAMETER – Use to access the Video options.

SETUP – Use to access the System Setup menu.

RETURN – Press to confirm and exit the current menu screen (also use to return to the previous menu with DVDs or to select closed captioning with DTV).

6 ⬅➡⬇⬆ (TUNE/ST) /ENTER
Use the arrow buttons when setting up your surround sound system and the Audio or Video options. Also used to control DVD menus/options and for deck 1 of a double cassette deck player. Use the **TUNE⬆/⬇** buttons to find radio frequencies and use **ST⬅/➡** to find preset stations.

7 TV CONTROL buttons
These buttons are dedicated to control the TV assigned to the **TV CTRL** button. Thus if you only have one TV to hook up to this system assign it to the **TV CTRL** input source button. If you have two TVs, assign the main TV to the **TV CTRL** button.

TV⏻ – Use to turn on/off the power of the TV.

TV VOL +/– – Use to adjust the volume on your TV.

INPUT SELECT – Use to select the TV input signal.

TV CH +/– – Use to select channels.

8 Component control buttons
The main buttons (▶,■, etc.) are used to control a component after you have selected it using the input source buttons.

The controls above these buttons can be accessed after you have selected the corresponding input source button (for example **DVD**,**DVR1** or **TV**). The following controls can be accessed when listening to the built-in tuner:

MPX – Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

DISP – Switches between named station presets and radio frequencies.

9 STATUS
Press to check selected receiver settings.

10 MULTI OPE
Use this button to perform multi operations.

11 SHIFT
Press to access the controls outlined in white boxes (for example, **INPUT SELECT**), or to display the currently selected input source in the remote control LCD.

12 SOURCE⏻
Press to turn on/off other components connected to the receiver.

13 Character display (LCD)
This display shows information when transmitting control signals.

The following commands are shown when you're setting the remote to control other components:

SETUP – Indicates the setup mode, from which you choose the options below.

PRESET

LEARNING

MULTI OP

SYS OFF

DIRECT F

RENAME

ERASE

RESET

READ ID

14 RECEIVER
Switches the remote to control the receiver (used to select the green commands above the number buttons (**ANALOG ATT**, etc.). Also use this button to set up surround sound. With **SHIFT**, this selects the MULTI-ZONE control, shown in the display as **RCV/Z2**,**RCV/Z3**.

15 VOL +/–
Use to set the listening volume.

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

17 Receiver controls

SIGNAL SEL – Use to select an input signal.

SBch – Use to select the surround/virtual back channel mode.

STEREO/F.S.SURR – Switches between the stereo playback mode and the Front Stage Surround Advance mode.

THX – Press to select a Home THX listening mode.

STANDARD – Press for Standard decoding and to switch between the various DD Pro Logic IIx and Neo:6 options.

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

18 PHASE – Press to switch on/off Phase Control or Full Band Phase Control.
MCACC – Press to switch between MCACC presets.

S.DIRECT – Press to select Auto Surround or Stream Direct listening.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

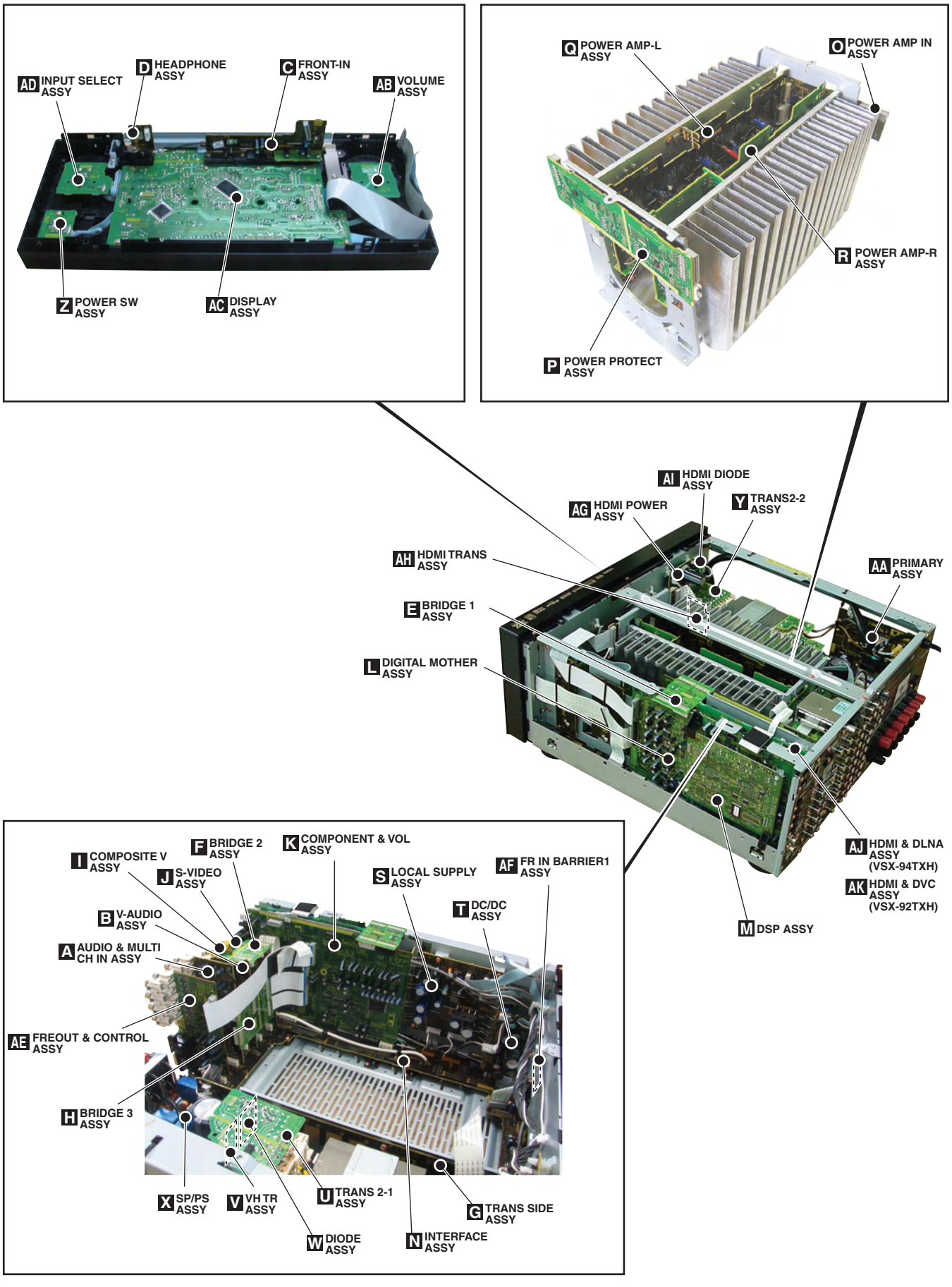
To keep the product quality after servicing, confirm recommended check points shown below.

No.	Procedure	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 sound from headphone output.	Sound must be normal, without noise.
7	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:

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

3.2 PCB LOCATIONS



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

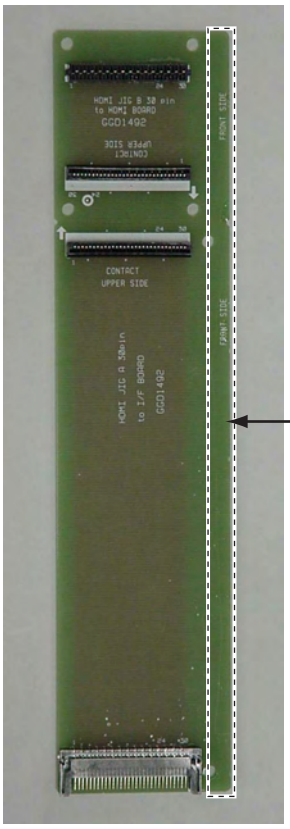
◆ LIST OF ASSEMBLIES

Mark	Symbol and Description	VSX-94TXH /KUXJ/CA	VSX-92TXH /KUXJ/CA
NSP	1..POWER AMP ASSY	AWH7011	AWH7011
	2..POWER AMP-L ASSY	AWX8654	AWX8654
	2..POWER AMP-R ASSY	AWX8656	AWX8656
	2..POWER PROTECT ASSY	AWX8658	AWX8658
	2..POWER AMP IN ASSY	AWX8662	AWX8662
NSP	1..COMPLEX ASSY	AWM8081	AWM8086
	2..TRANS 2-2 ASSY	AWX8891	AWX8891
	2..PRIMARY ASSY	AWX8894	AWX8894
NSP	2..FFC GUARD (FRONT) ASSY	AWX8899	AWX8899
	2..DISPLAY ASSY	AWX8900	AWX8900
	2..FRONT-IN ASSY	AWX8902	AWX8903
	2..HEADPHONE ASSY	AWX8905	AWX8905
	2..INPUT SELECT ASSY	AWX8906	AWX8906
	2..VOLUME ASSY	AWX8907	AWX8907
	2..POWER SW ASSY	AWX8908	AWX8908
	1..DIGITAL MOTHER ASSY	AWP7046	AWP7052
NSP	1..VIDEO ASSY	AWQ7051	AWQ7051
	2..COMPOSITE V ASSY	AWX8884	AWX8884
	2..S VIDEO ASSY	AWX8886	AWX8886
	2..PREOUT & CONTROL ASSY	AWX8888	AWX8888
NSP	2..FR IN BARRIER1 ASSY	AWX8948	AWX8948
	1..COMPONENT & VOL ASSY	AWQ7041	AWQ7046
NSP	1..SECONDARY ASSY	AWR7053	AWR7057
	2..SP/PS ASSY	AWX8909	AWX8911
	2..TRANS 2-1 ASSY	AWX8913	AWX8913
NSP	2..DIODE ASSY	AWX8915	AWX8915
	2..VH TR ASSY	AWX8916	AWX8916
	2..DC/DC ASSY	AWX8917	AWX8918
	2..INTERFACE ASSY	AWX8919	AWX8919
NSP	2..TRANS SIDE ASSY	AWX8921	AWX8921
NSP	1..AUDIO ASSY	AWR7061	AWR7061
	2..LOCAL SUPPLY ASSY	AWX8923	AWX8923
	2..AUDIO & MULTI CH IN ASSY	AWX8926	AWX8926
	2..V-AUDIO ASSY	AWX8930	AWX8930
NSP	2..HDMI POWER ASSY	AWX8933	AWX8933
NSP	2..BRIDGE 1 ASSY	AWX8934	AWX8934
NSP	2..BRIDGE 2 ASSY	AWX8935	AWX8935
NSP	2..BRIDGE 3 ASSY	AWX8936	AWX8936
NSP	2..FFC GUARD (SIDE) ASSY	AWX8937	AWX8937
	2..HDMI TRANS ASSY	AWX8939	AWX8939
	2..HDMI DIODE ASSY	AWX8940	AWX8940
	1..DSP ASSY	AWX8869	AWX8869
	1..HDMI & DLNA ASSY	AWX8870	Not used
	1..HDMI & DVC ASSY	Not used	AWX8871
	1..FM/AM TUNER MODULE	AXX7250	AXX7250

3.3 JIGS LIST

■ Jigs list

Name	Jig No.	Remarks
Audio control cable for iPod	XDE7025	Check of iPod
30pin board to board extension cable	GGD1492 (x2)	Diagnosis of HDMI & DLNA Assy



Before using GGD1492, it is necessary to cut this part.

A

B

C

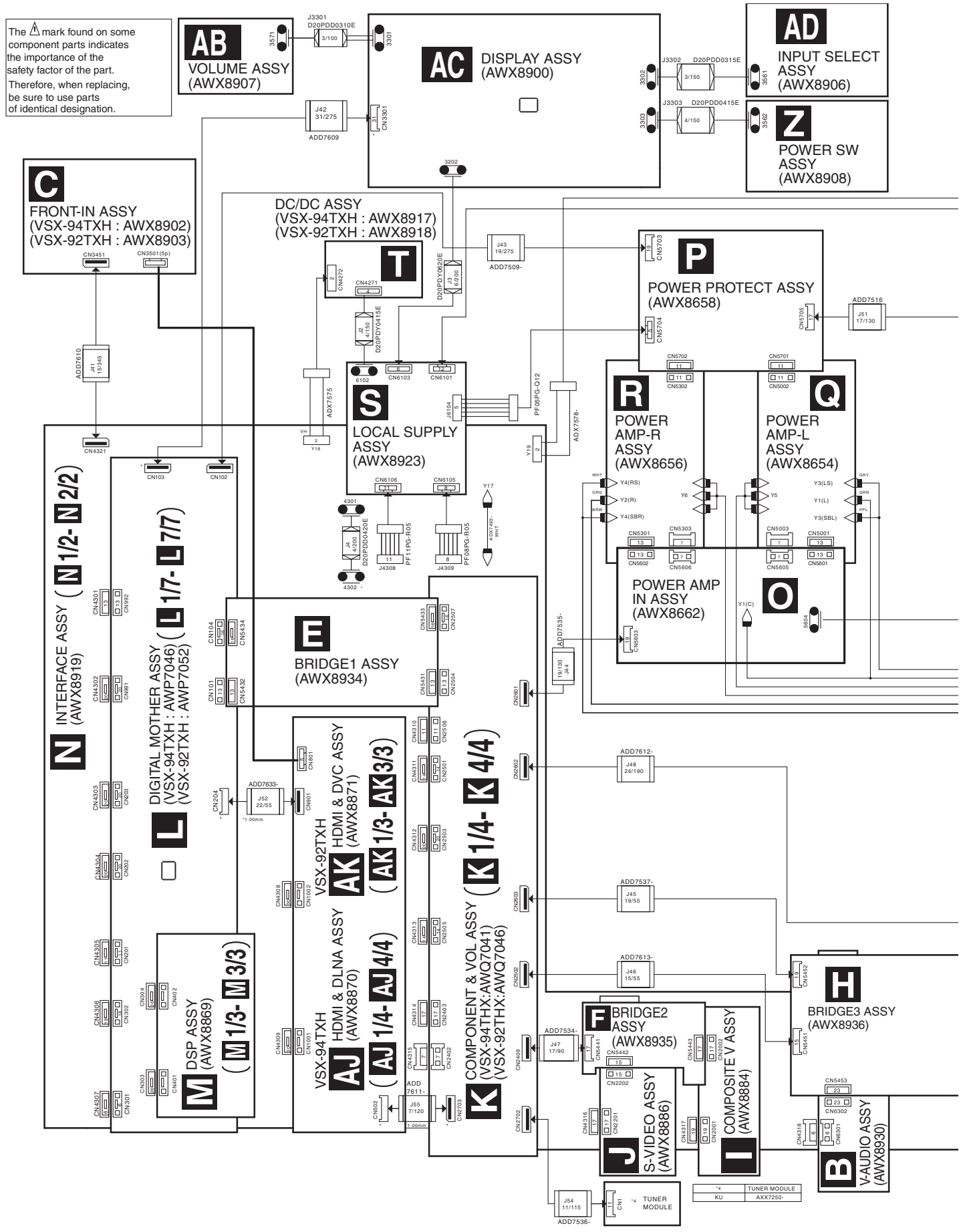
D

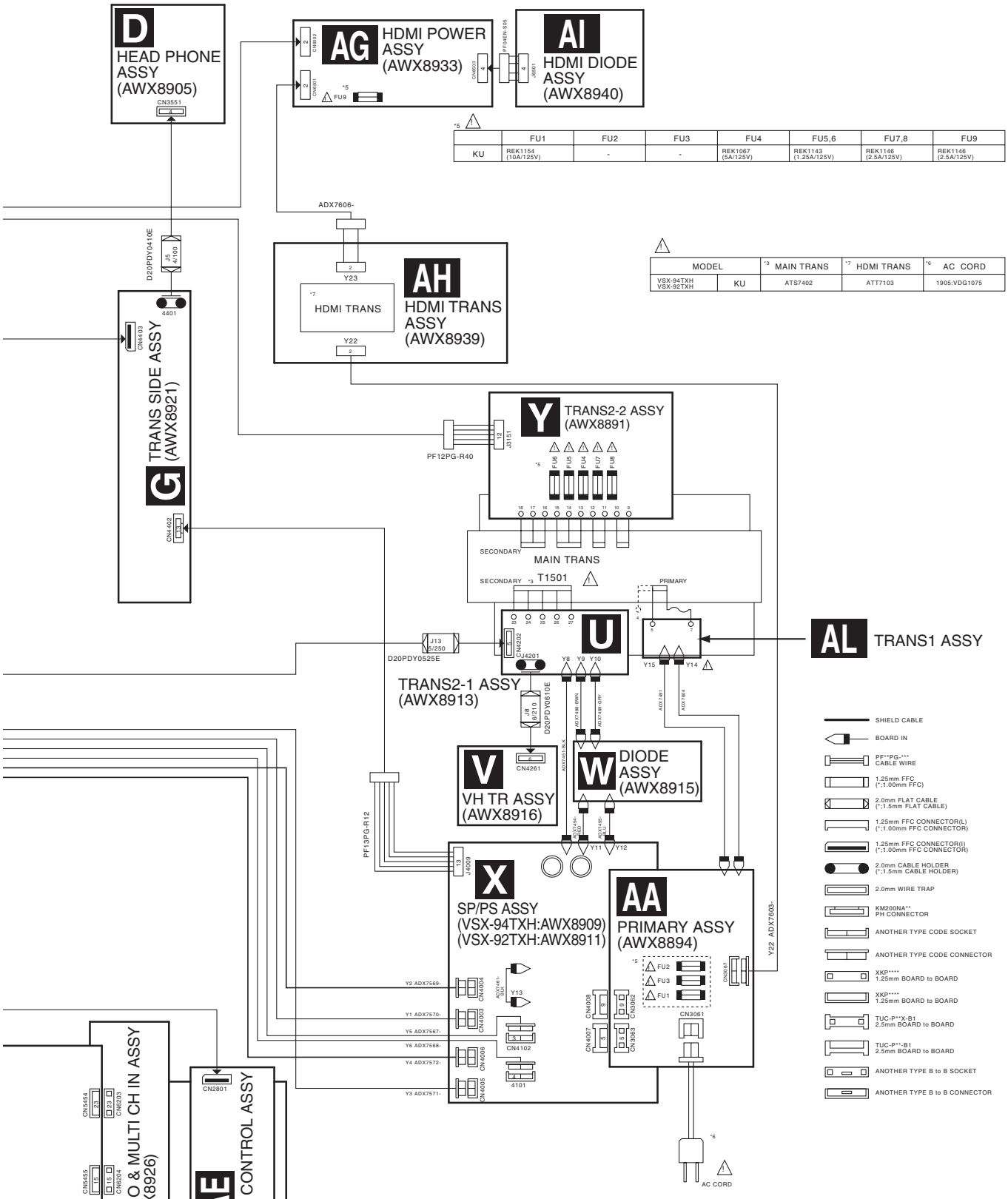
E

F

4. BLOCK DIAGRAM

4.1 OVERALL WIRING DIAGRAM



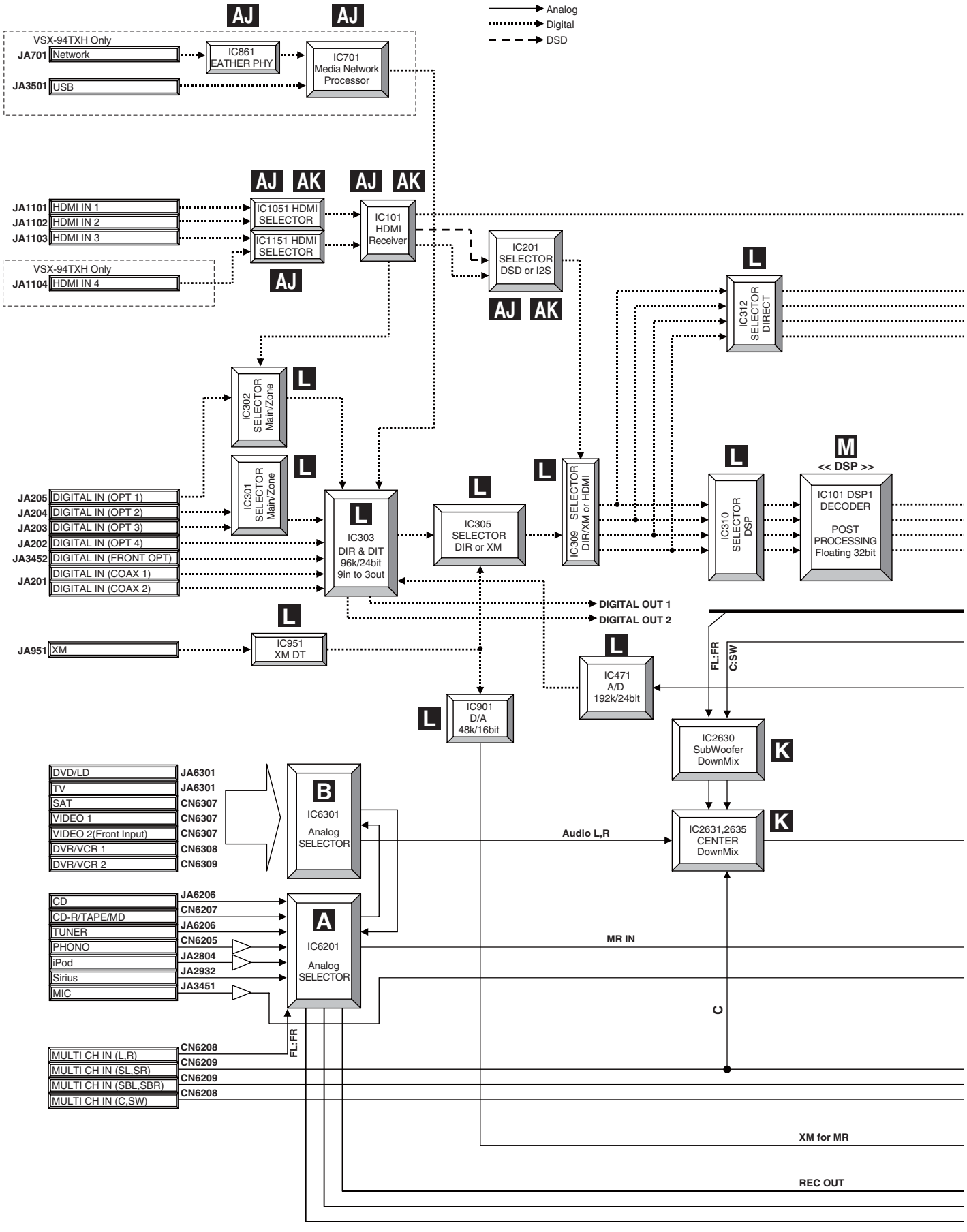


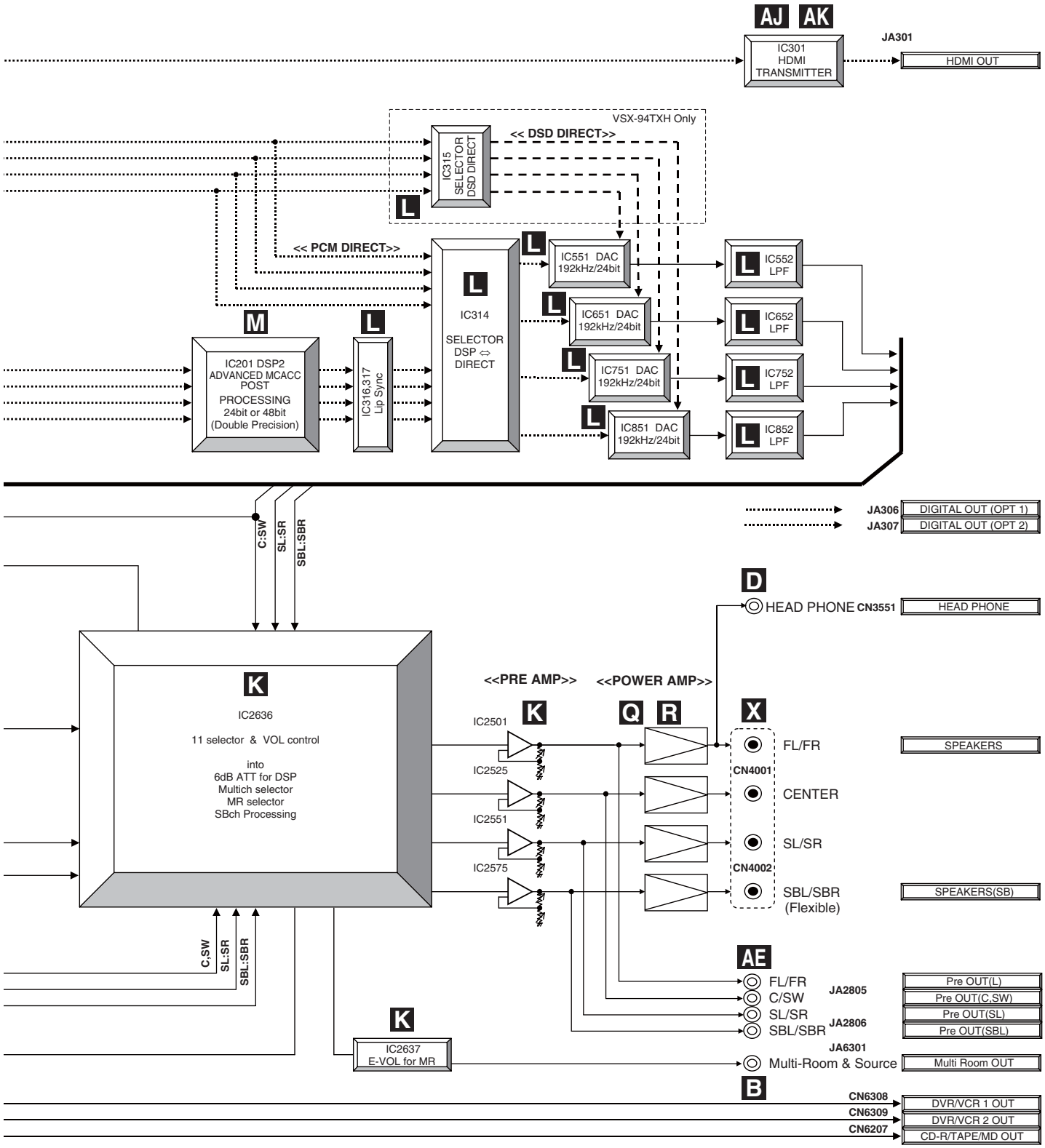
	FU1	FU2	FU3	FU4	FU5,6	FU7,8	FU9
KU	REK1154 (10A/125V)	-	-	REK1067 (5A/125V)	REK1143 (1.25A/125V)	REK1146 (2.5A/125V)	REK1146 (2.5A/125V)

MODEL		*3 MAIN TRANS	*7 HDMI TRANS	*6 AC CORD
VSX-94TXH VSX-92TXH	KU	ATS7402	ATT7103	1905:VDG1075

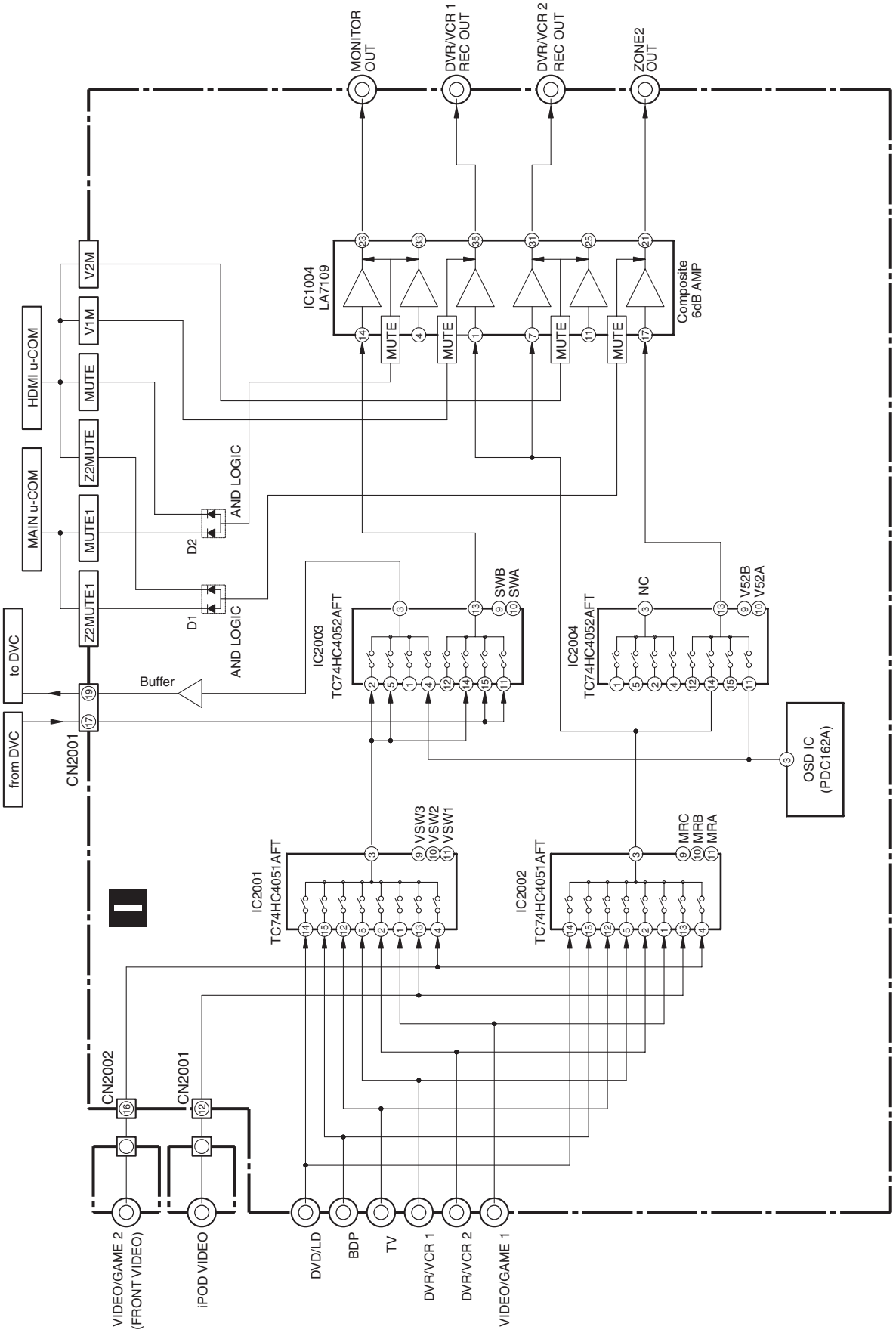
NOTES:
- *When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *: The power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

4.2 AUDIO BLOCK DIAGRAM

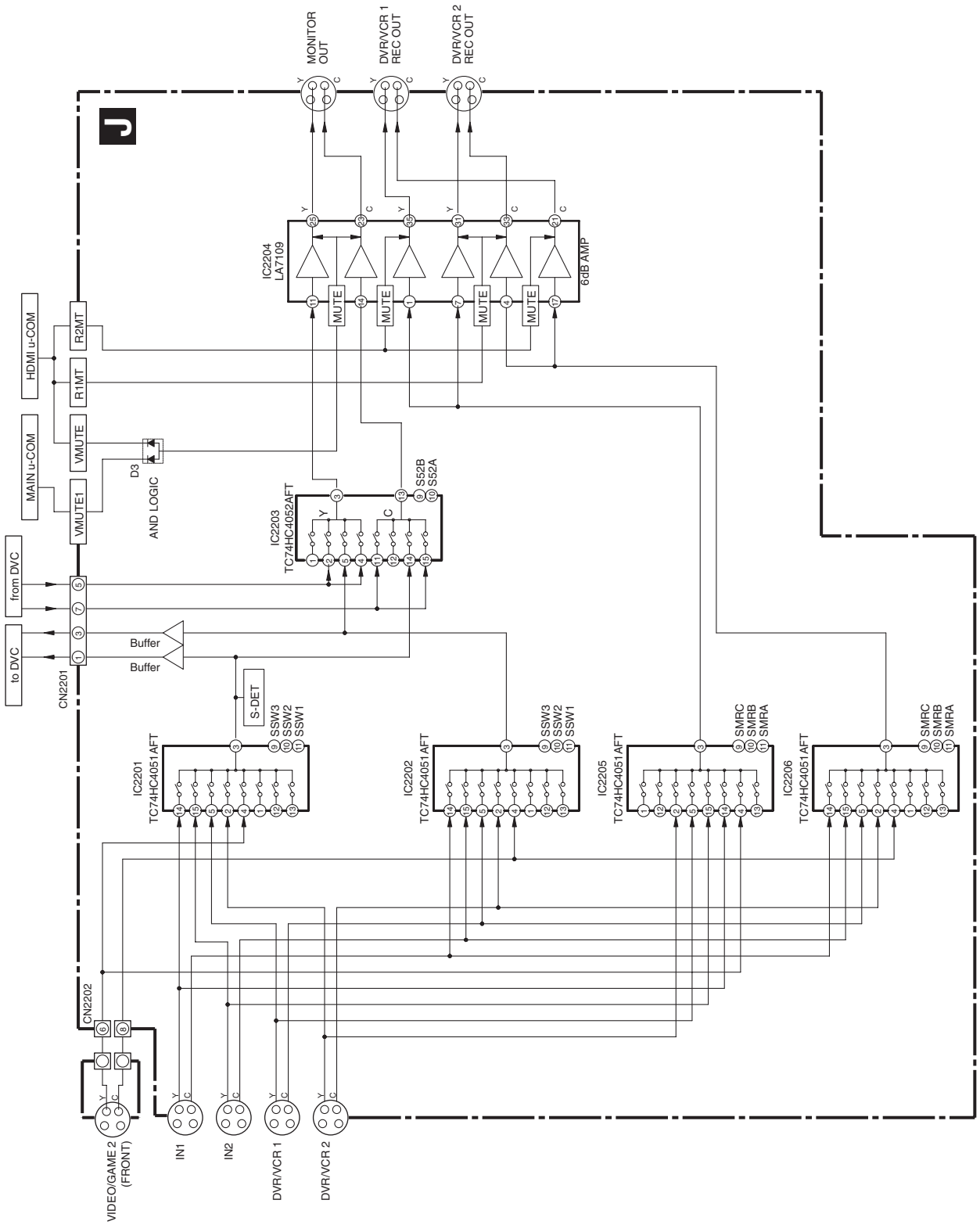



AJ AK
IC301
HDMI
TRANSMITTER
JA301
HDMI OUT
VSX-94TXH Only
<< DSD DIRECT>>
IC315
SELECTOR
DSD DIRECT
L
<< PCM DIRECT>>
IC551 DAC
192kHz/24bit
IC552
LPF
IC651 DAC
192kHz/24bit
IC652
LPF
IC751 DAC
192kHz/24bit
IC752
LPF
IC851 DAC
192kHz/24bit
IC852
LPF
IC314
SELECTOR
DSP ⇔
DIRECT
M
IC201 DSP2
ADVANCED MCACC
POST
PROCESSING
24bit or 48bit
(Double Precision)
IC316,317
Lip Sync
JA306
DIGITAL OUT (OPT 1)
JA307
DIGITAL OUT (OPT 2)
C:SW
SL:SR
SBL:SBR
D
HEAD PHONE CN3551
HEAD PHONE
K
IC2636
11 selector & VOL control
into
6dB ATT for DSP
Multich selector
MR selector
SBch Processing
<<PRE AMP>>
<<POWER AMP>>
IC2501
IC2525
IC2551
IC2575
Q
R
X
CN4001
CN4002
FL/FR
CENTER
SL/SR
SBL/SBR
(Flexible)
SPEAKERS
SPEAKERS(SB)
AE
FL/FR
C/SW
SL/SR
SBL/SBR
JA2805
JA2806
Pre OUT(L)
Pre OUT(C,SW)
Pre OUT(SL)
Pre OUT(SBL)
IC2637
E-VOL for MR
JA6301
Multi-Room & Source
Multi Room OUT
B
CN6308
CN6309
CN6207
DVR/VCR 1 OUT
DVR/VCR 2 OUT
CD-R/TAPE/MD OUT

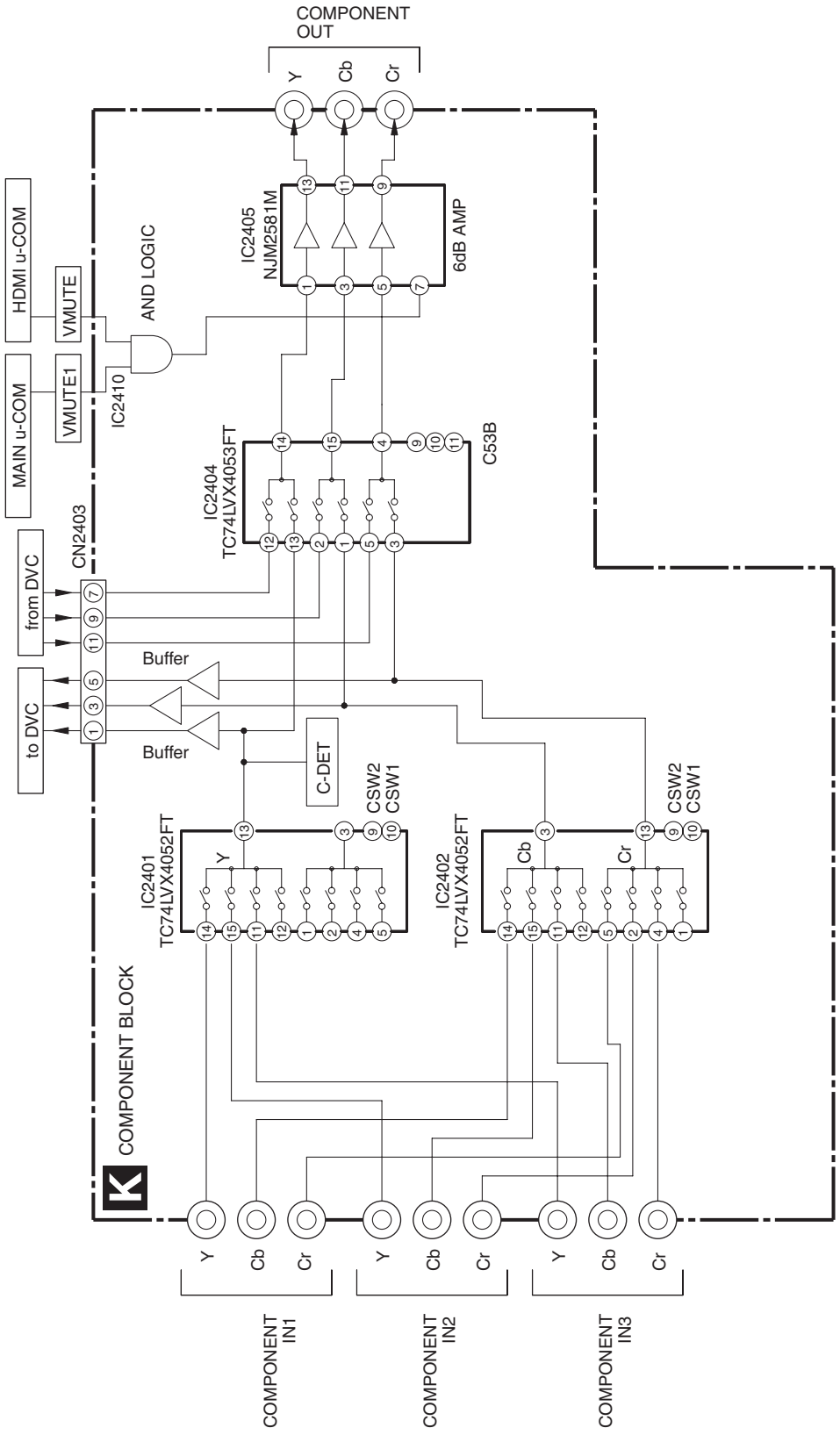
4.3 COMPOSITE V BLOCK DIAGRAM



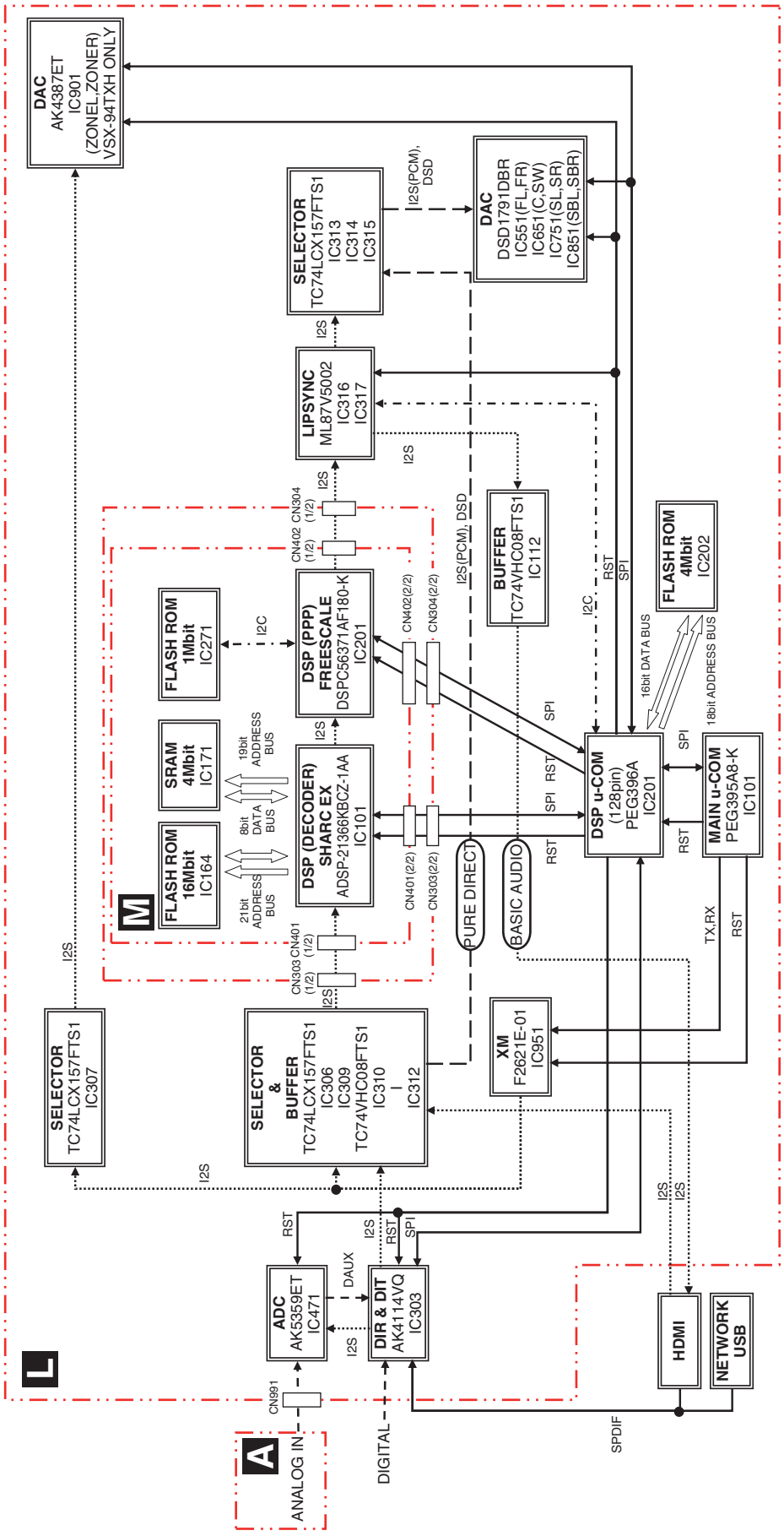
4.4 S-VIDEO BLOCK DIAGRAM



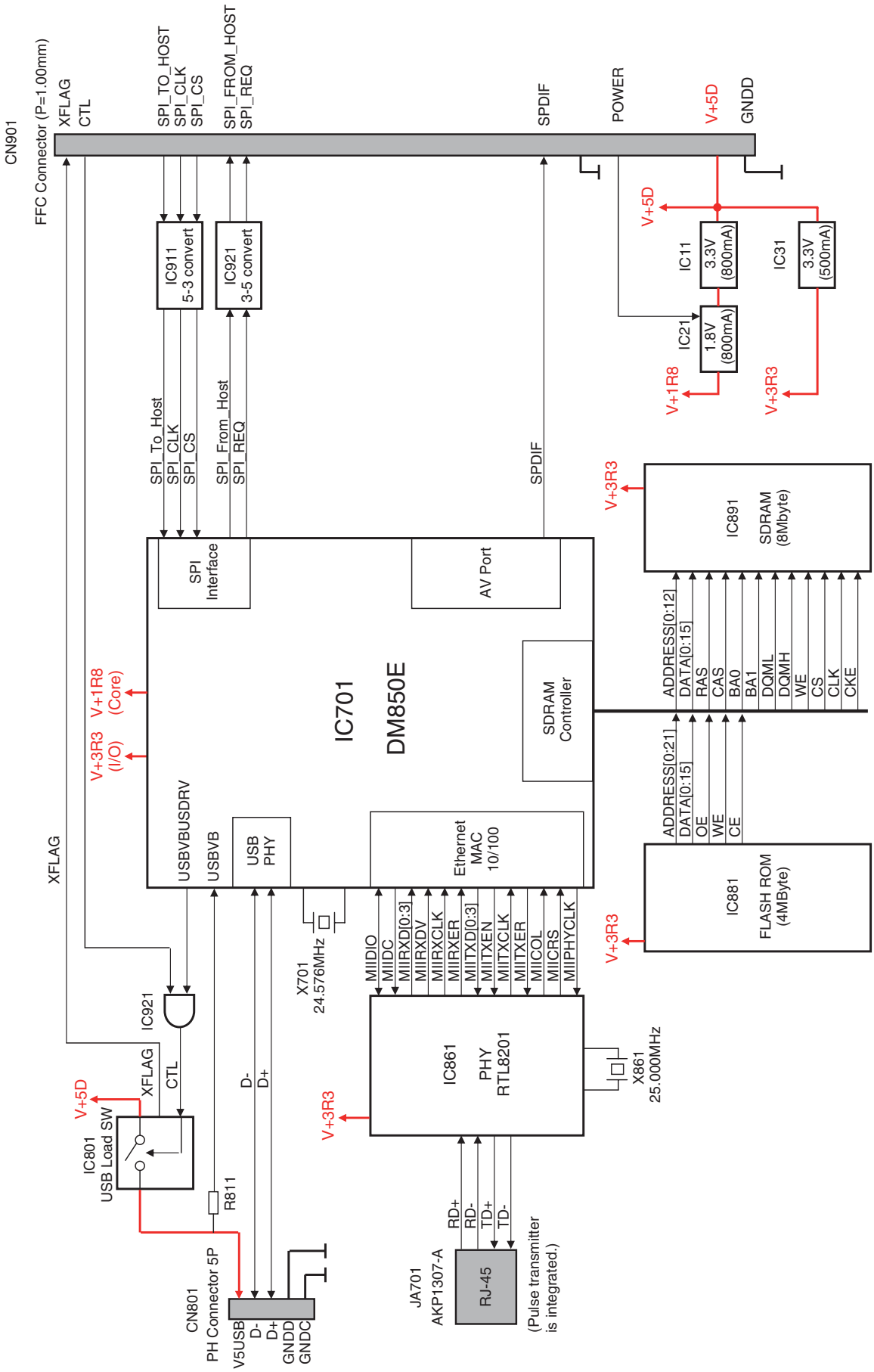
4.5 COMPONENT & VOL BLOCK DIAGRAM



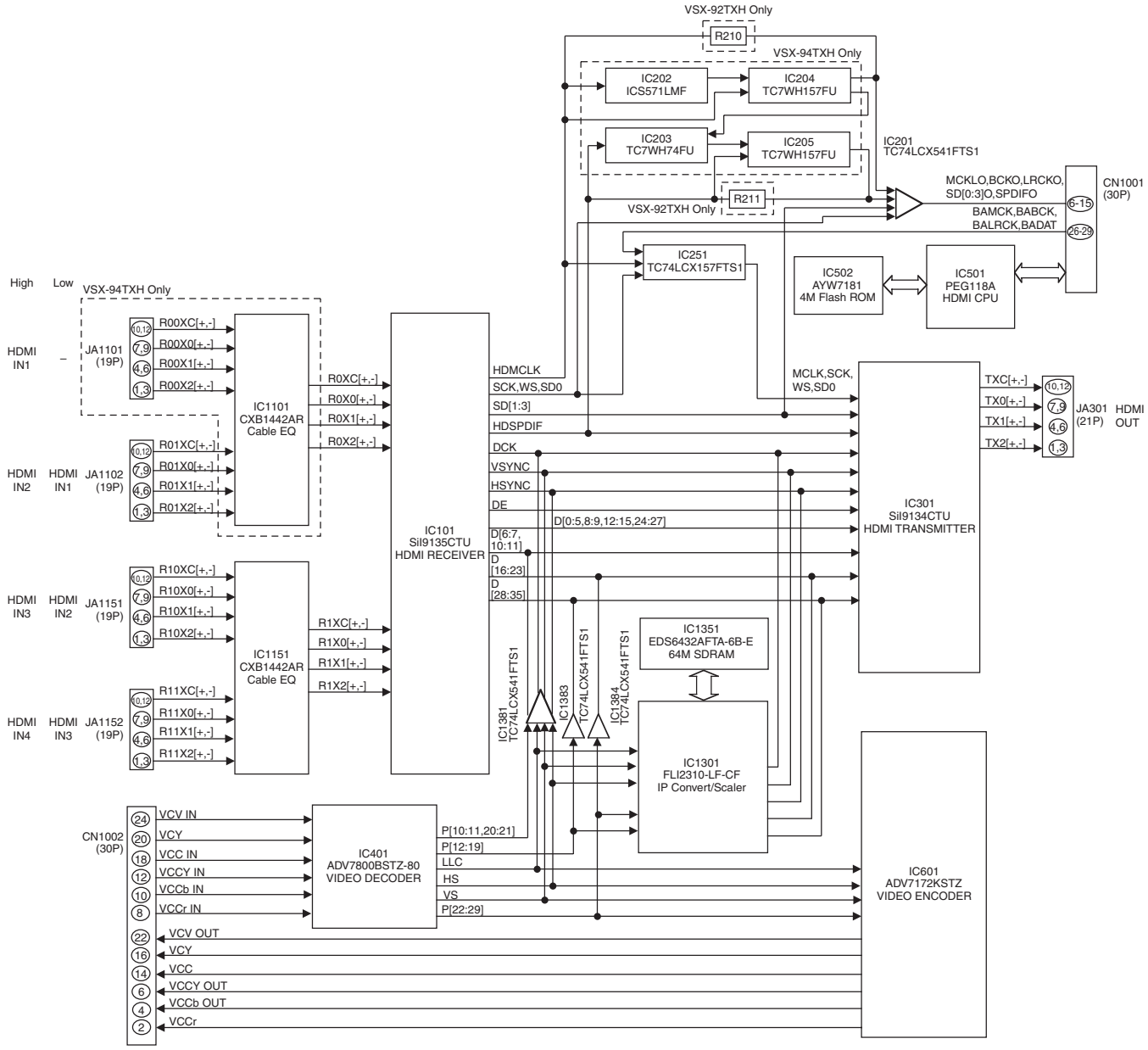
4.6 DSP BLOCK DIAGRAM



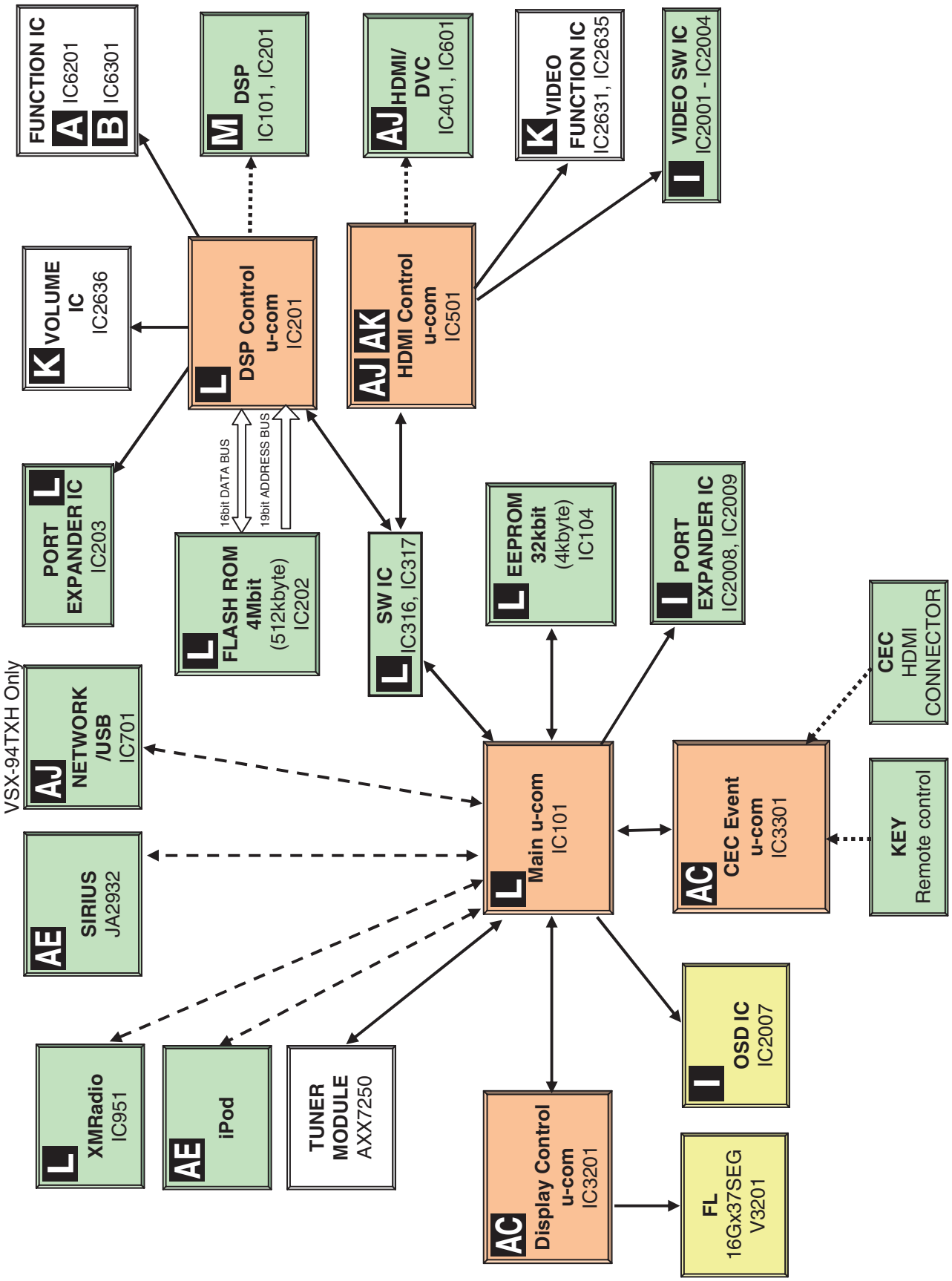
4.7 HDMI & DLNA BLOCK DIAGRAM (VSX-94TXH)



4.8 HDMI & DVC BLOCK DIAGRAM



4.9 MICROCOMPUTER BLOCK DIAGRAM



5. DIAGNOSIS

5.1 DIAGNOSIS FLOWCHART

5.1.1 DSP TROUBLESHOOTING

■ Unsophisticated Diagnosis

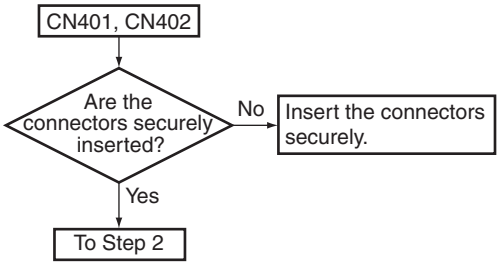
DSP Ass'y malfunction is detected
(The part can be roughly expected just by operation of the main unit.)

- **Has DSP Ass'y caused the malfunction?**
  Inputing a PCM (such as CD) digital signal, check if the sound plays by switching AUTO SURR / STREAM DIRECT. When the sound doesn't play in AUTO SURROUND or DIRECT MODE though it does in PURE DIRECT (PCM DIRECT) MODE, DSP Ass'y might be defective.

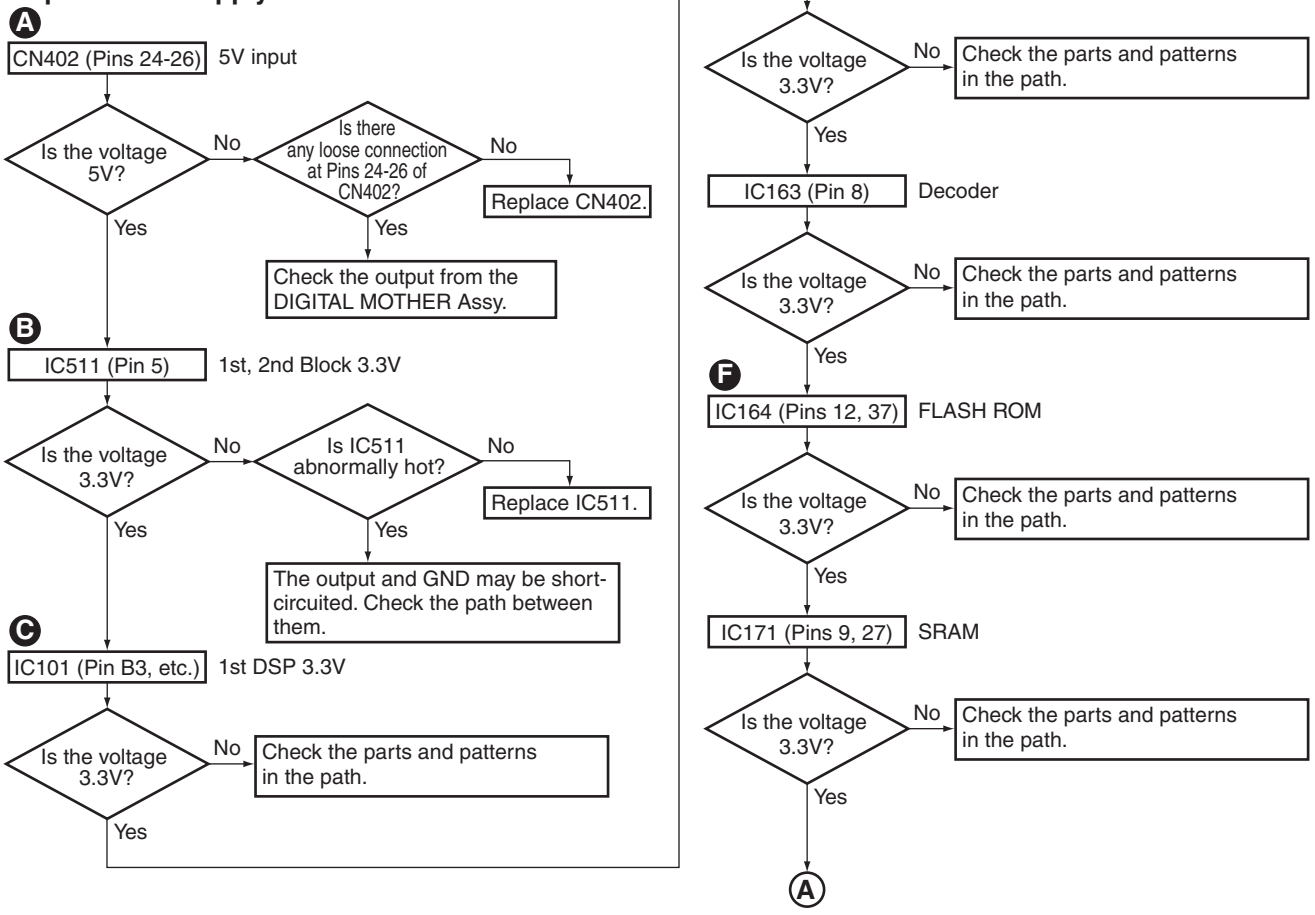
■ Troubleshooting

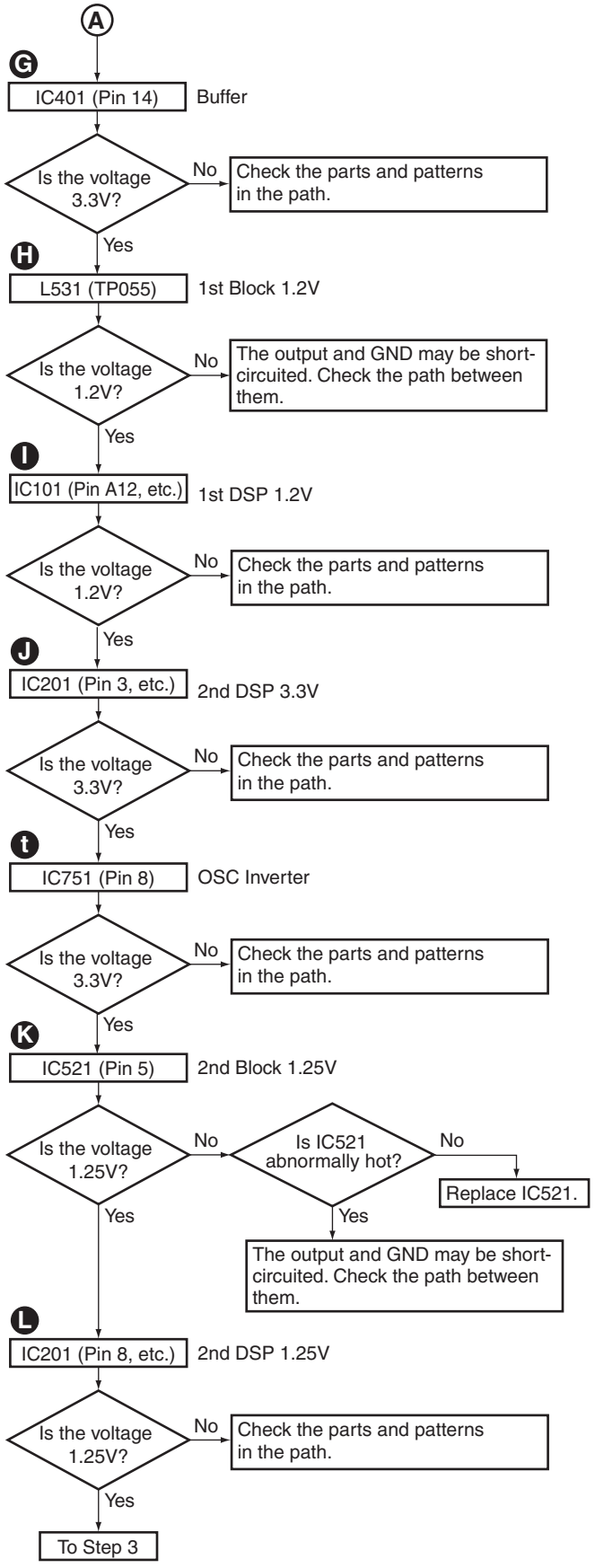
- It is assumed that there is no loose connection or damage in the LCRs.
- Refer to "DSP Block Diagram" and "DSP Assy check point" as the parts marked Ⓐ to ⓐⓕ in the troubleshooting are located.

Step 1: Connections

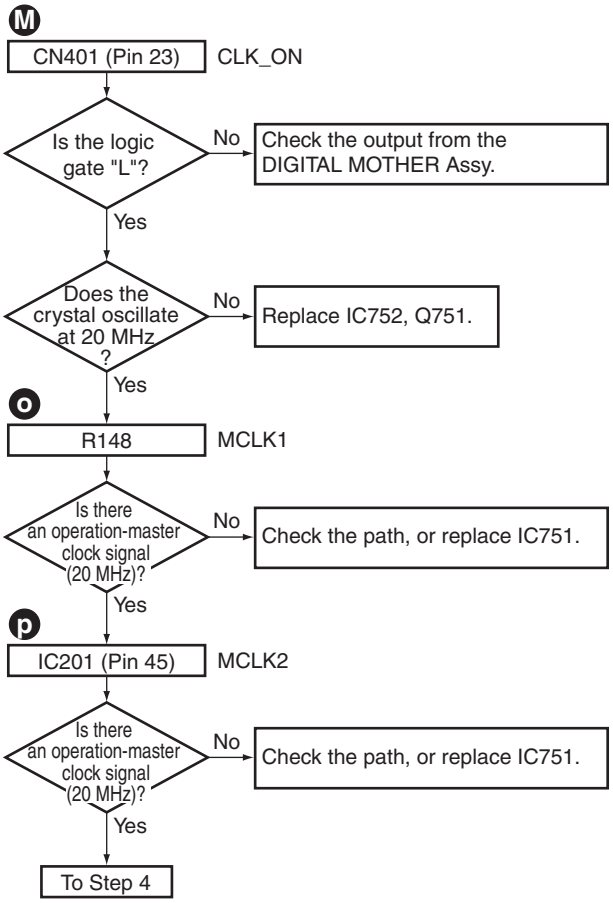


Step 2: Power supply

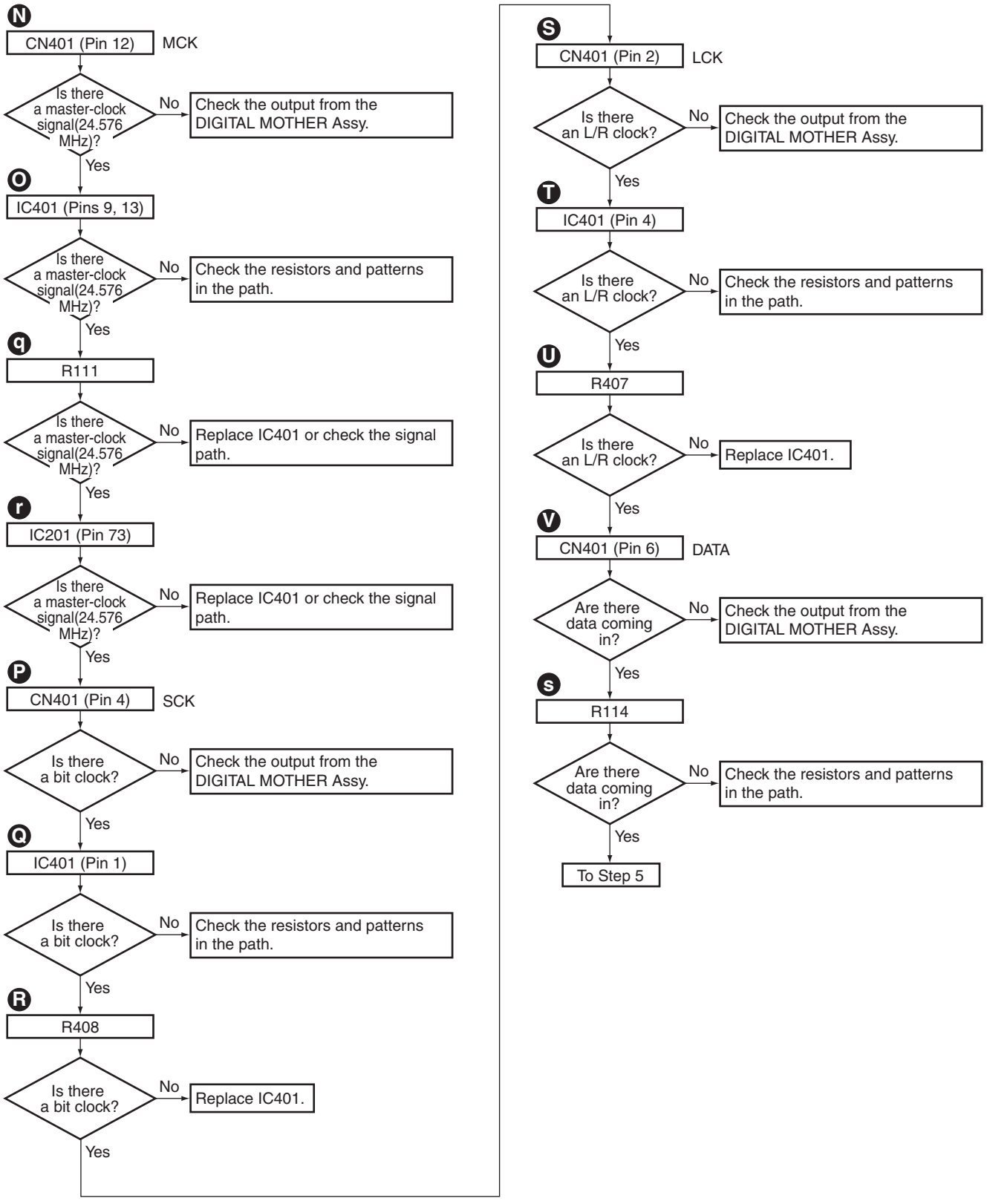




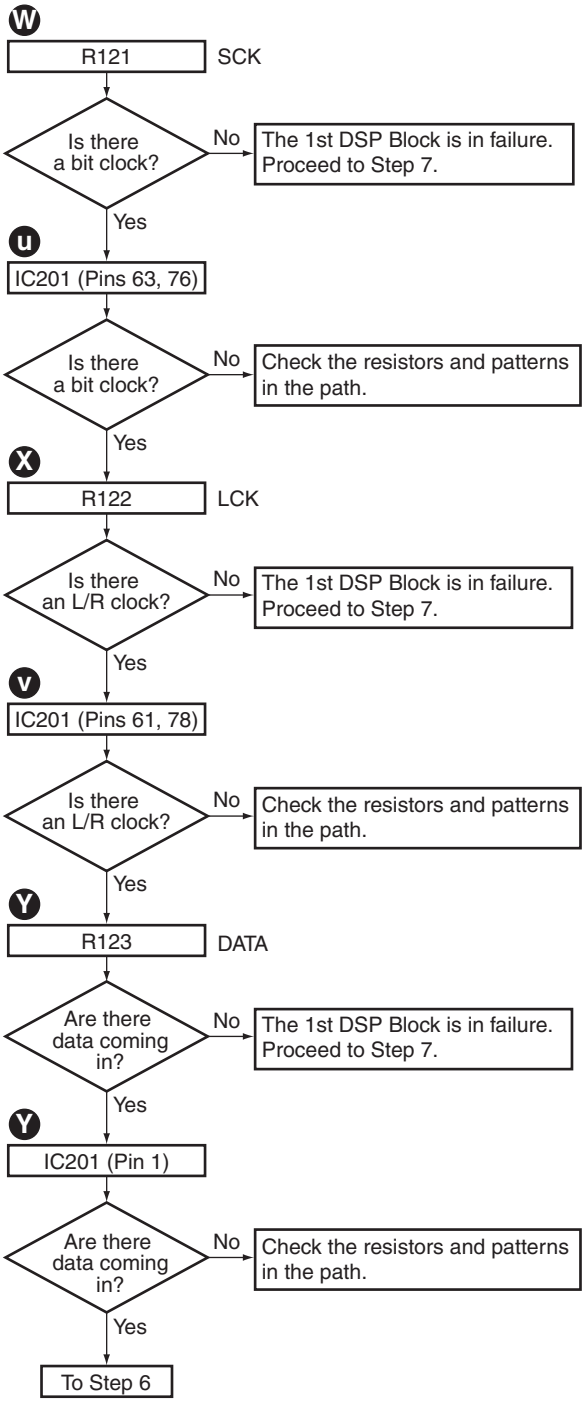
Step 3: Operation of the Master Clock



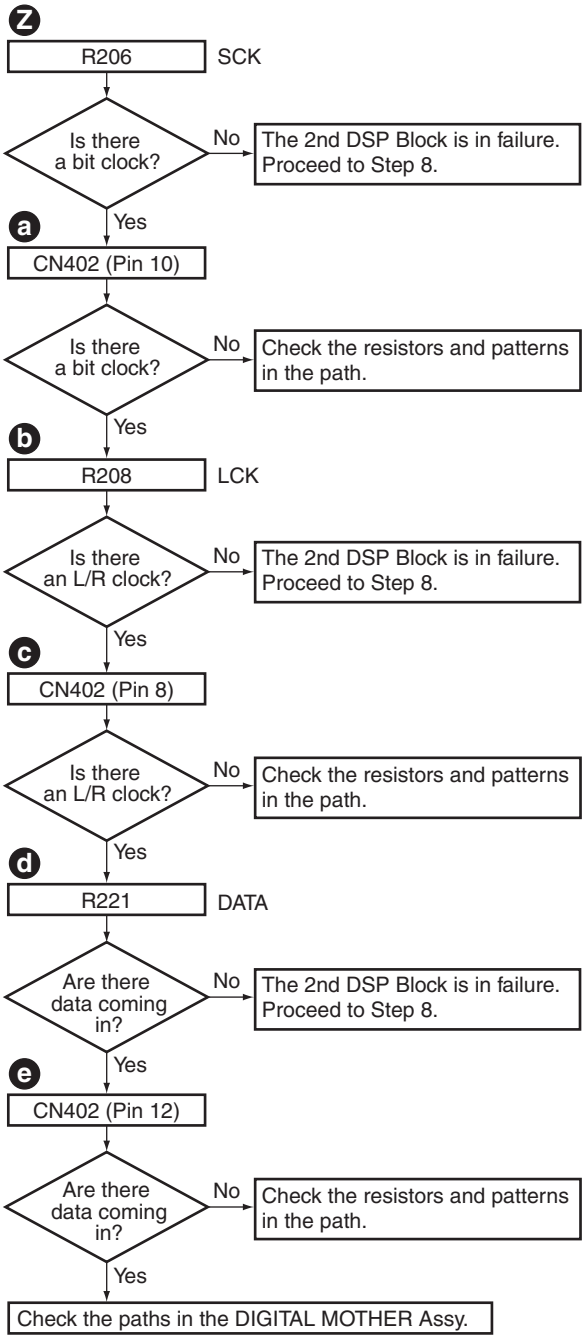
Step 4: Audio Clock



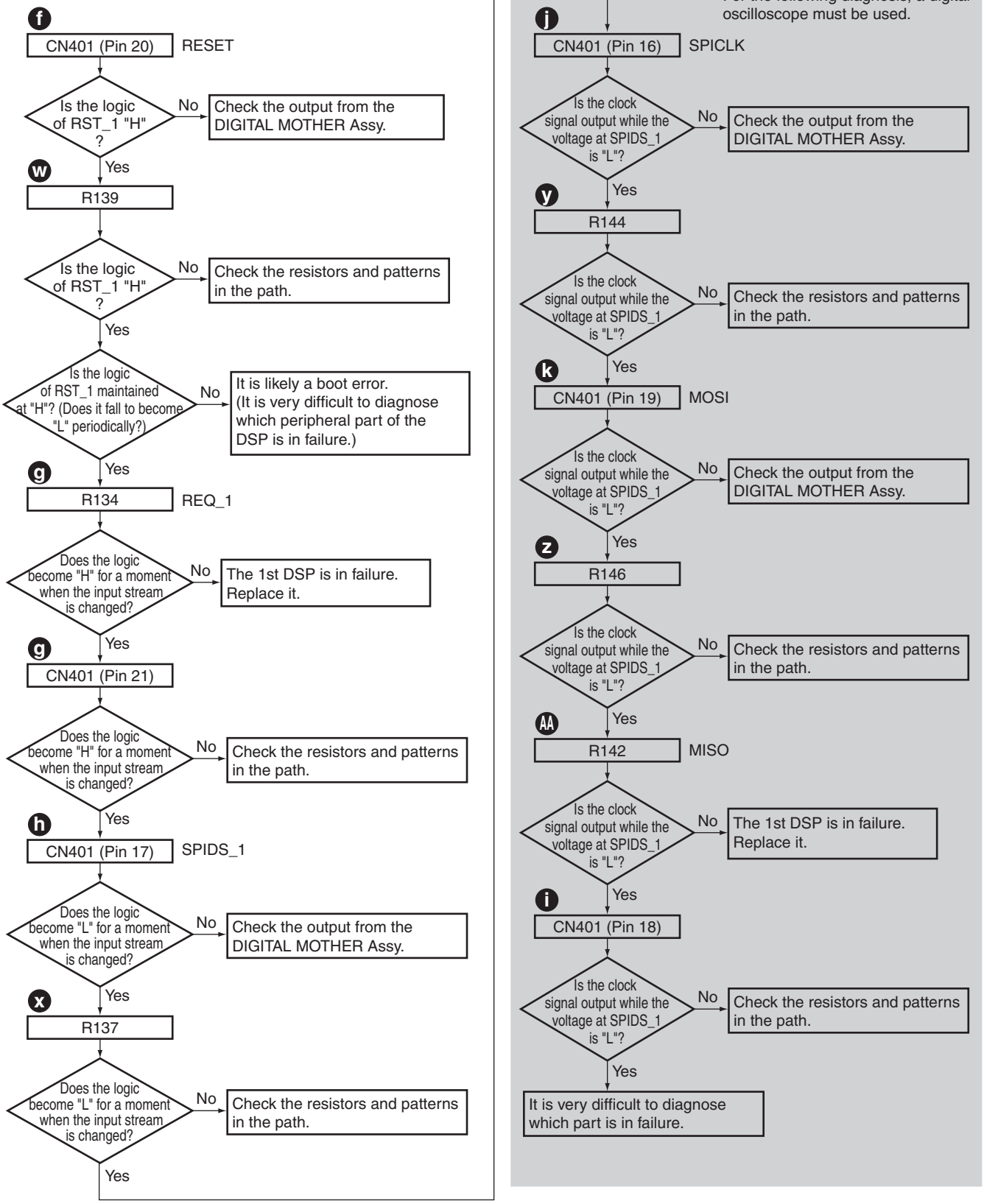
Step 5


W
R121
SCK
Is there a bit clock?
No
The 1st DSP Block is in failure. Proceed to Step 7.
Yes
u
IC201 (Pins 63, 76)
Is there a bit clock?
No
Check the resistors and patterns in the path.
Yes
X
R122
LCK
Is there an L/R clock?
No
The 1st DSP Block is in failure. Proceed to Step 7.
Yes
v
IC201 (Pins 61, 78)
Is there an L/R clock?
No
Check the resistors and patterns in the path.
Yes
Y
R123
DATA
Are there data coming in?
No
The 1st DSP Block is in failure. Proceed to Step 7.
Yes
Y
IC201 (Pin 1)
Are there data coming in?
No
Check the resistors and patterns in the path.
Yes
To Step 6

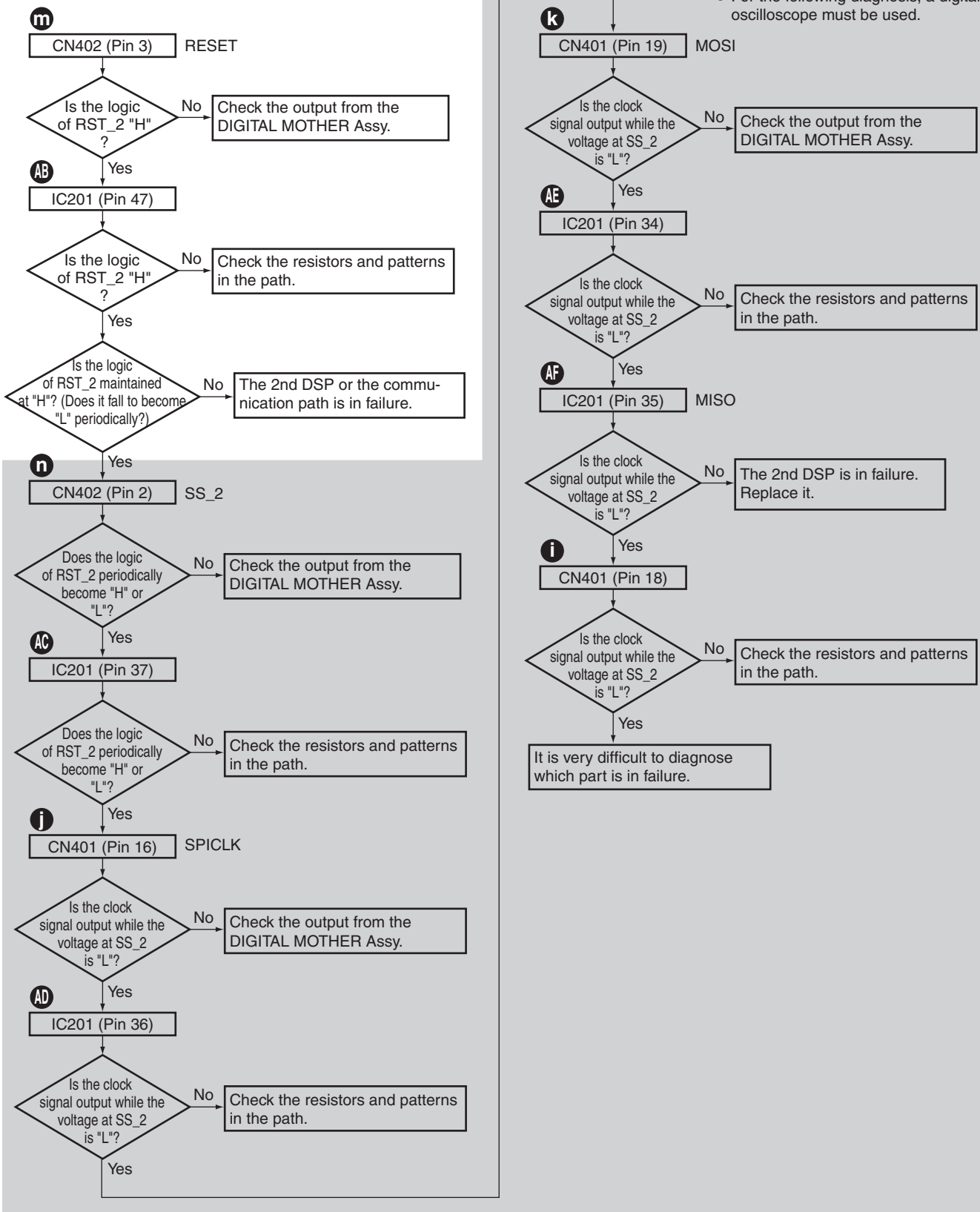
Step 6


Z
R206
SCK
Is there a bit clock?
No
The 2nd DSP Block is in failure. Proceed to Step 8.
Yes
a
CN402 (Pin 10)
Is there a bit clock?
No
Check the resistors and patterns in the path.
Yes
b
R208
LCK
Is there an L/R clock?
No
The 2nd DSP Block is in failure. Proceed to Step 8.
Yes
c
CN402 (Pin 8)
Is there an L/R clock?
No
Check the resistors and patterns in the path.
Yes
d
R221
DATA
Are there data coming in?
No
The 2nd DSP Block is in failure. Proceed to Step 8.
Yes
e
CN402 (Pin 12)
Are there data coming in?
No
Check the resistors and patterns in the path.
Yes
Check the paths in the DIGITAL MOTHER Assy.

Step 7: 1st DSP

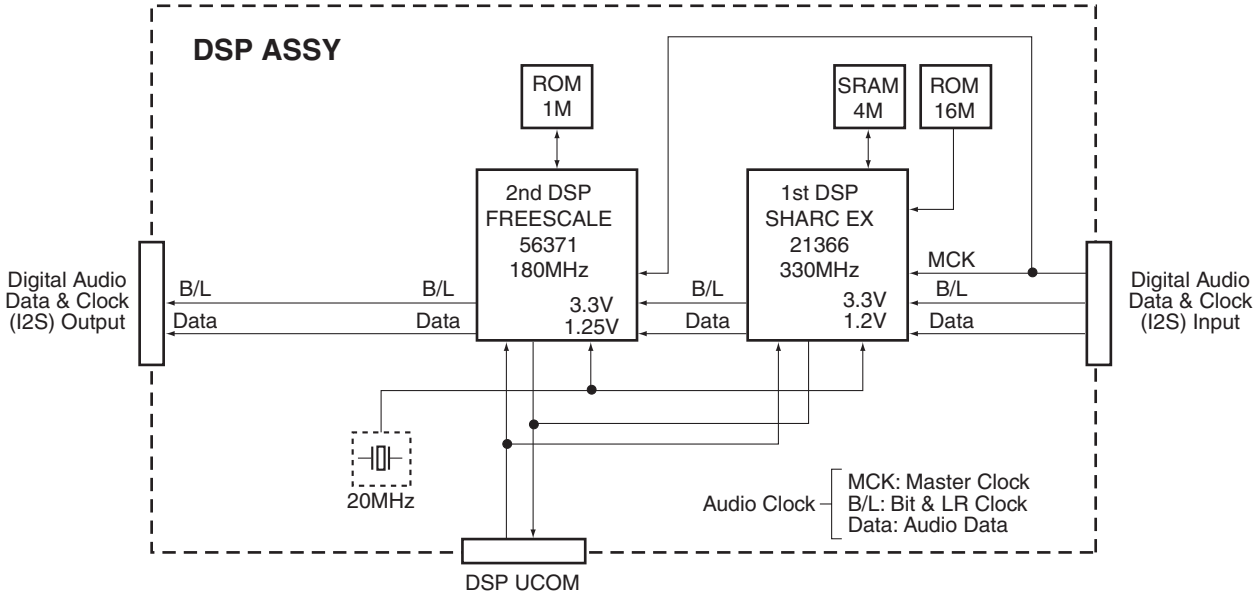


Step 8: 2nd DSP

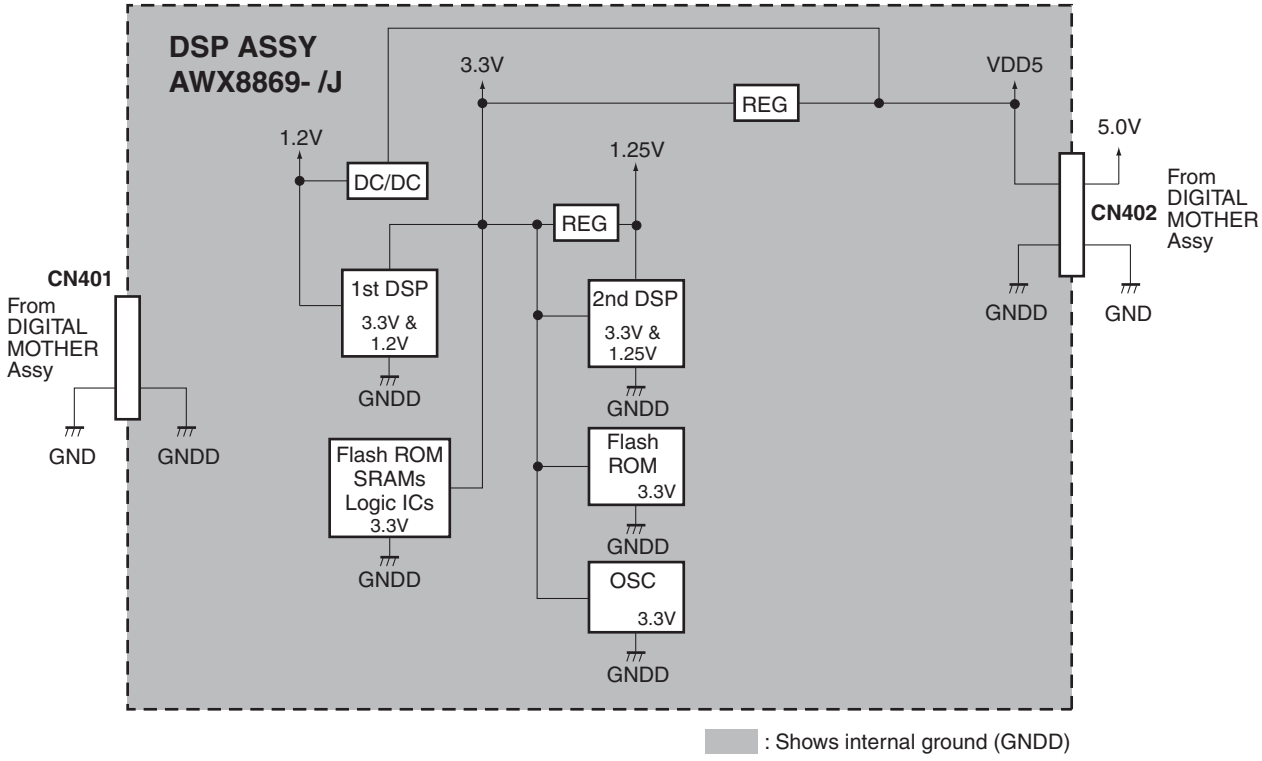


■ DSP Block Diagram

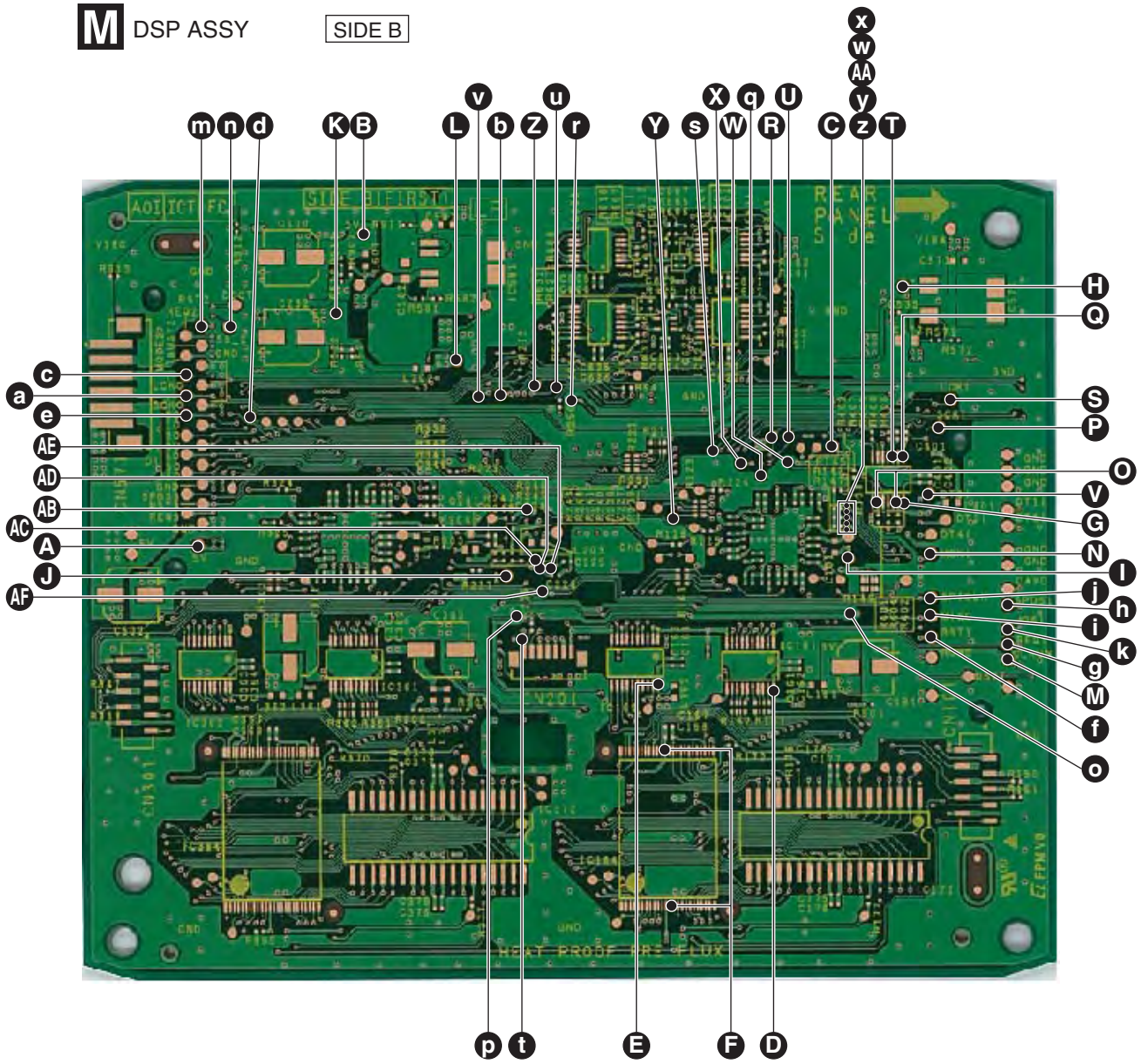
• CORE Block



• Power Block and GND Map



■ DSP Assy Check Points



5.1.2 DIAGNOSIS OF THE HDMI BLOCK AND RELATED SYSTEMS

■ HDMI Simple Diagnosis

Please refer to the one point trouble shooting first before checking the flow chart on the next page.

HDMI

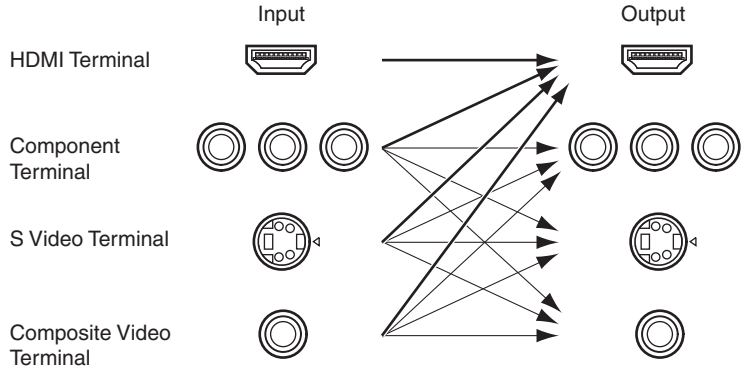
Symptom	Remedy
The HDMI indicator blinks continuously.	Check all the points below.
No picture or sound.	• This receiver is HDCP-compatible. Check that the components you are connecting are also HDCP-compatible. If they are not, please connect them using the component, S-video or composite video jacks. • Depending on the connected source component, it's possible that it will not work with this receiver (even if it is HDCP-compatible). • If the problem still persists when connecting your HDMI component directly to your monitor, please consult the component or monitor manual or contact the manufacturer for support.
No picture.	• Depending in the output settings of the source component, it may be outputting a video format that can't be displayed. Change the output settings of the source, or connect using the component, S-video or composite jacks.
No sound, or sound suddenly ceases.	• Check that the HDMI setting is set to **AMP/THROUGH**. • If the component is a DVI device, use a separate connection for the audio. • Check the audio output settings of the source component.

Note:

- An HDMI connection can only be made with DVI-equipped components compatible with both DVI and High Bandwidth Digital Content Protection (HDCP). If you choose to connect to a DVI connector, you will need a separate adaptor (DVI → HDMI) to do so. A DVI connection, however, does not support audio signals. Consult your local audio dealer for more information.
- This unit has been designed to be compliant with HDMI (High Definition Multimedia Interface) Version 1.3a. Depending on the component you have connected, using a DVI connection may result in unreliable signal transfers. Also, when using a component with HDMI version 1.39, it is not possible to output copy-controlled DVD-Audio CPPM sources from the HDMI connection.

Digital Video Converting System

The following chart is for video converting. As you can see HDMI input signal is output to HDMI output terminal only. Other analog inputs can be converted to HDMI output signal.

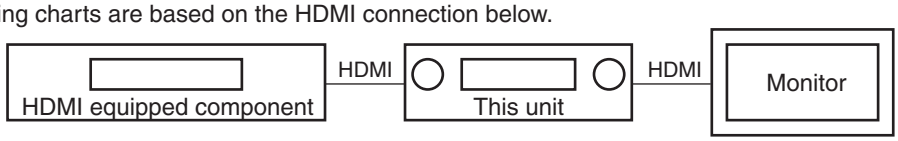


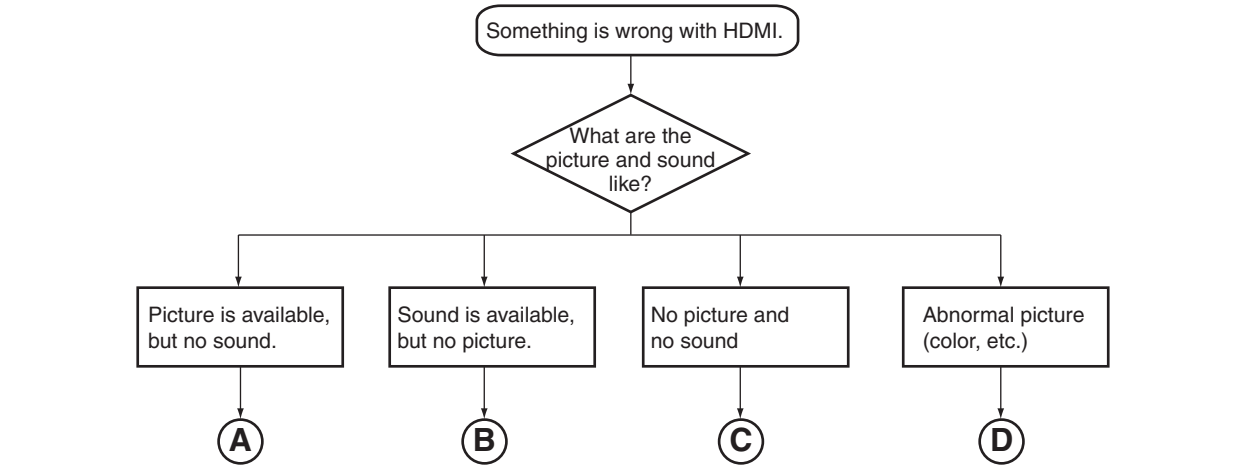
HDMI Audio routing line

Input		Output	HDMI Setting
HDMI	→	HDMI	THROUGH
		Pre out	AMP
		SP Out	
other	→	HDMI	THROUGH
		Pre out	AMP
		SP Out	

■ Status confirmation

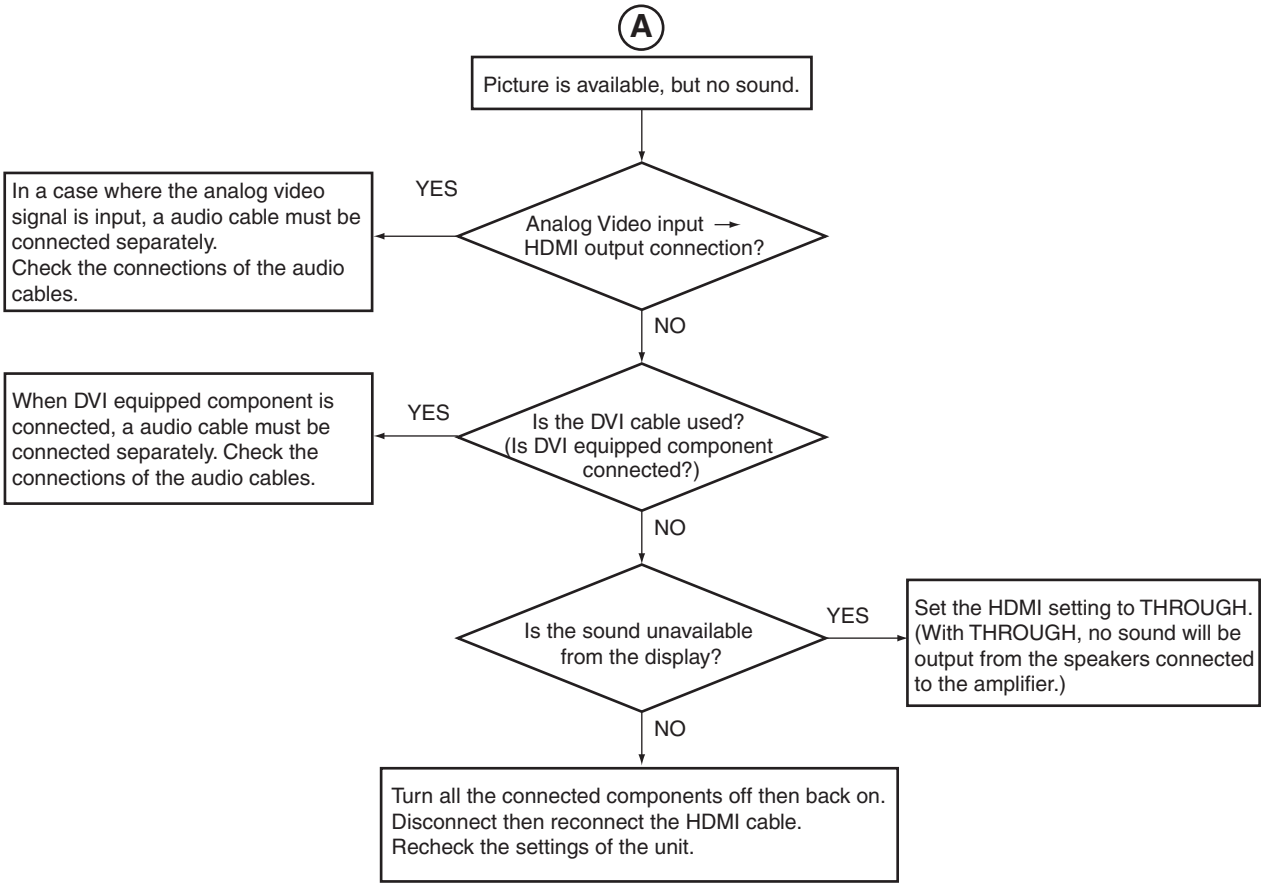
The following charts are based on the HDMI connection below.



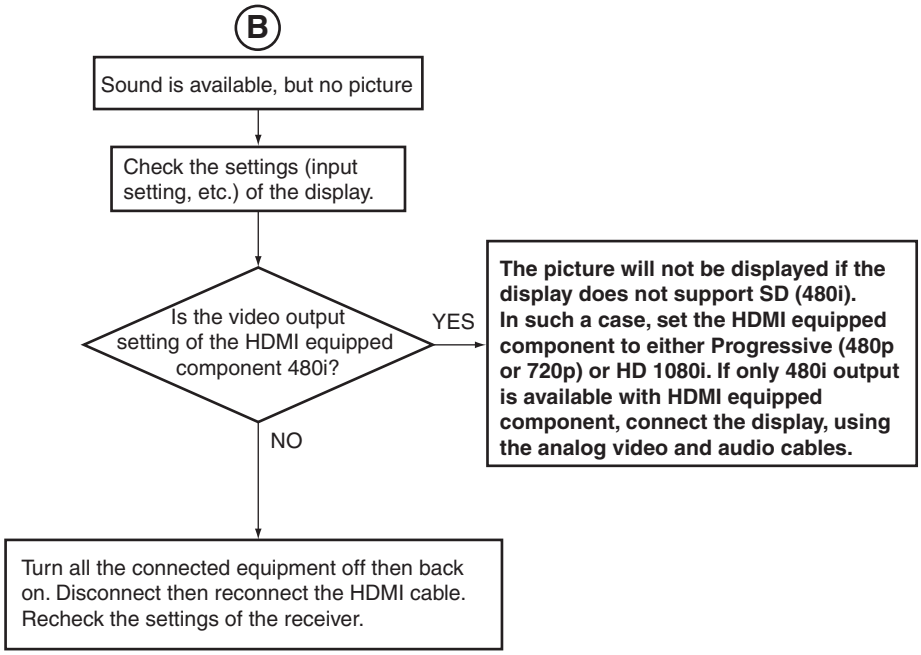


- In either case, check the connection cables, input selection, and initial settings of the unit first.
- "Analog video" hereinafter means composite, S, or component video.
- "Audio cable" hereinafter means either analog or digital audio connection cables.
- "display" hereinafter means HDMI-compatible monitor or plasma display.

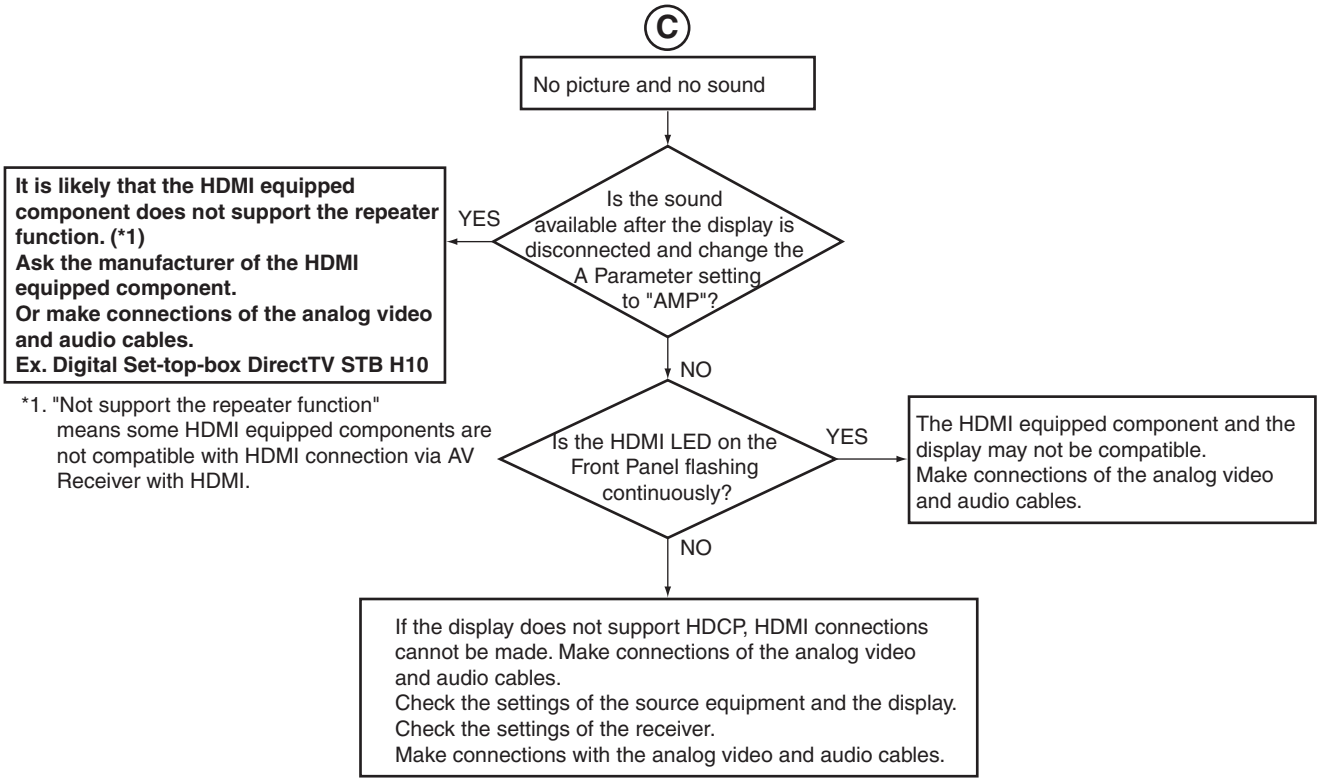
■ In a case where picture is available, but no sound



■ In a case where the sound is available, but no picture

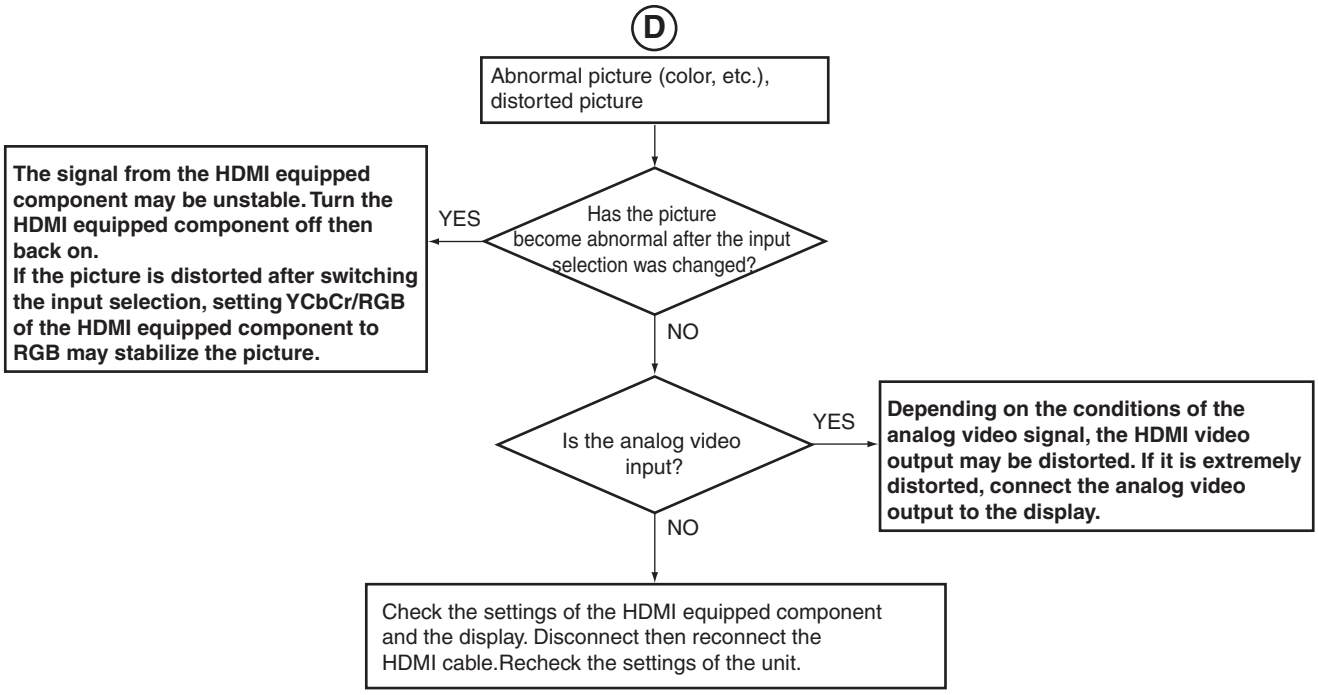


■ In a case of no picture and no sound

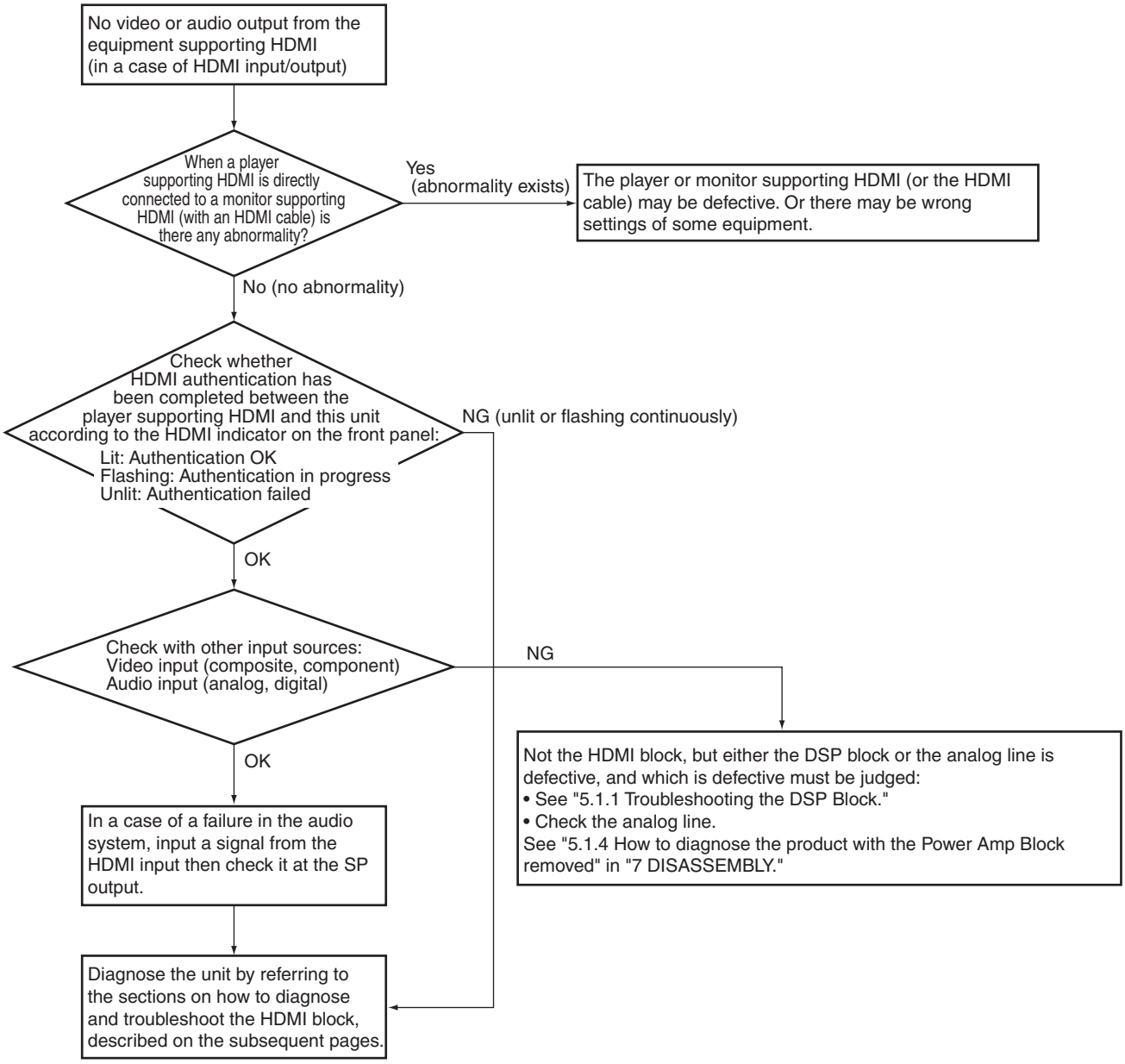


*1. "Not support the repeater function" means some HDMI equipped components are not compatible with HDMI connection via AV Receiver with HDMI.

■ In a case of abnormal picture



■ Flowchart of troubleshooting the HDMI block



■ Preparations for diagnosis

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

Jig cable

• 30P board to board extension jig cable (GGD1492) x2

[Procedures]

① Remove the bonnet.

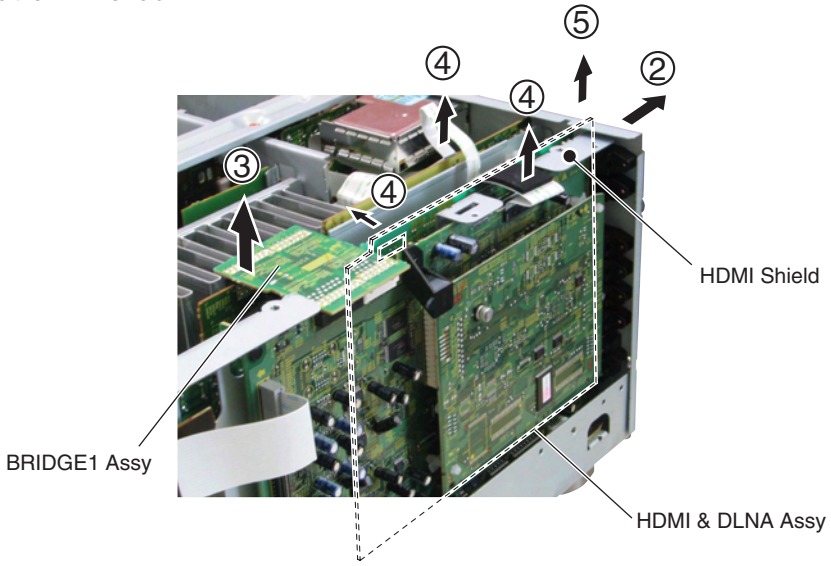
② Remove the rear panel (Refer to P.83)

③ Remove the BRIDGE1 Assy.

④ Disconnect the two flexible cables and connector.

⑤ Remove the HDMI & DLNA Assy.

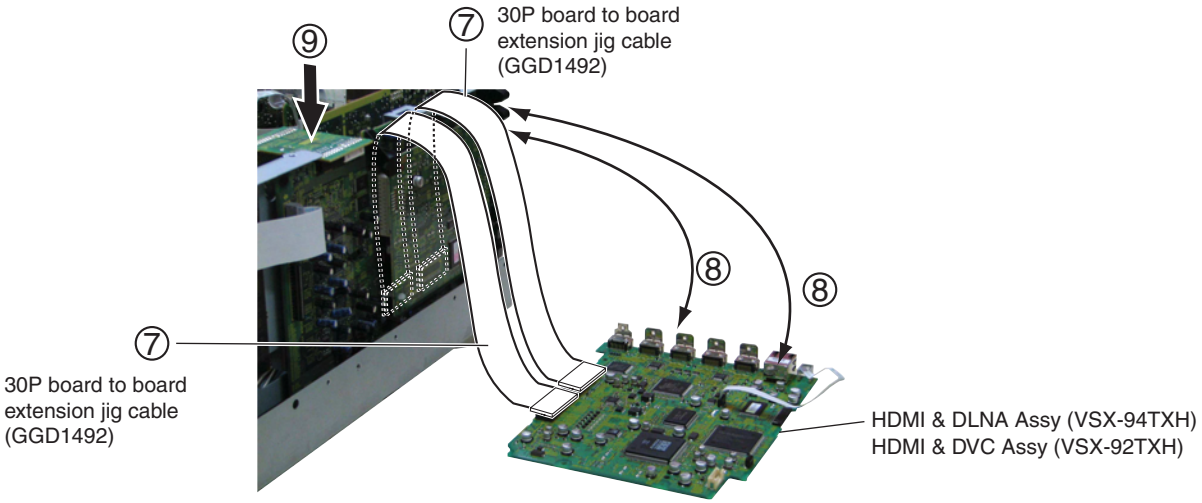
⑥ Remove the HDMI shield.



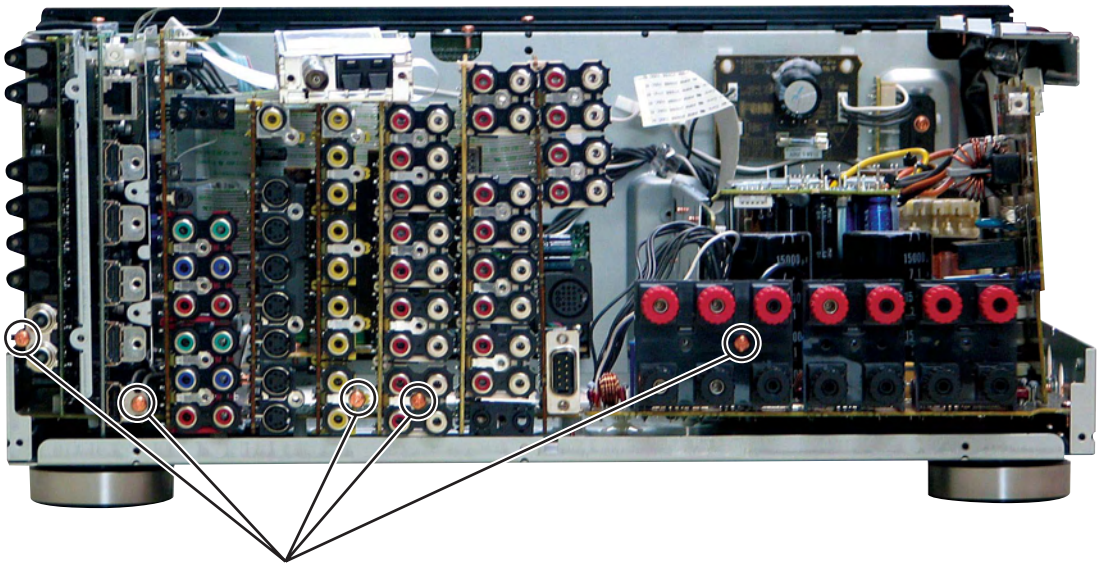
⑦ Connect the two extension jig cables.

⑧ Connect a cable between the HDMI connector and the chassis.

⑨ Connect the BRIDGE1 Assy.



Note : As mentioned below, detach the rear panel, re-fasten the screws at the corresponding points, and connect the chassis to the ground.



Points to be connected to the chassis

■ HDMI Troubleshooting

• The parts marked like **V+5** in the following chart are located in "HDMI & DLNA Assy Check Points".

Common section

Step 1: Connections

CN1001, CN1002 — **A1** **A2**

Is soldering of the connectors OK?
- No → Solder the connectors correctly.
- Yes

Step 2-1: Power supply, CLK

CN1001(Pin 4) — UNReg INPUT — **V+5IN**

Is the voltage 11 V?
- No → Check the INTERFACE Assy.
- Yes

R1031 — 1.8 V — **V+1R8H**

Is the voltage 1.8 V?
- No → Check the soldering of IC1001 and the peripheries of IC1001. If soldering has not been done correctly, replace IC1001.
- Yes

R1008 — 3.3 V — **V+3R3_1**

Is the voltage 3.3 V?
- No → Check the soldering of IC1001 and the peripheries of IC1001. If soldering has not been done correctly, replace IC1001.
- Yes

R1009 — 3.3 V — **V+3R3_2**

Is the voltage 3.3 V?
- No → Check the soldering of IC1001 and the peripheries of IC1001. If soldering has not been done correctly, replace IC1001.
- Yes

R1073 — 5 V — **V+5DH**

Is the voltage 5 V?
- No → Check the soldering of IC1071 and the peripheries of IC1071. If soldering has not been done correctly, replace IC1071.
- Yes

R1072 — 5 V — **V+5AH**

Is the voltage 5 V?
- No → Check the soldering of IC1071 and the peripheries of IC1071. If soldering has not been done correctly, replace IC1071.
- Yes

CN1001(Pin 1) — UNReg INPUT — **V+12UN**

Is the voltage 11 V?
- No → Check the INTERFACE Assy.
- Yes

IC1051(Pin 3) — 5 V — **V+5HD**

Is the voltage 5 V?
- No → Check the soldering of IC1051 and the peripheries of IC1051. If soldering has not been done correctly, replace IC1051.
- Yes

X501 — X'TAL (microcomputer) — **B1**

Is oscillation of 15.7 MHz output?
- No → Check the soldering of X501 or IC501. If soldering has not been done correctly, replace X501 or IC501.
- Yes

Step 2-2: Reset

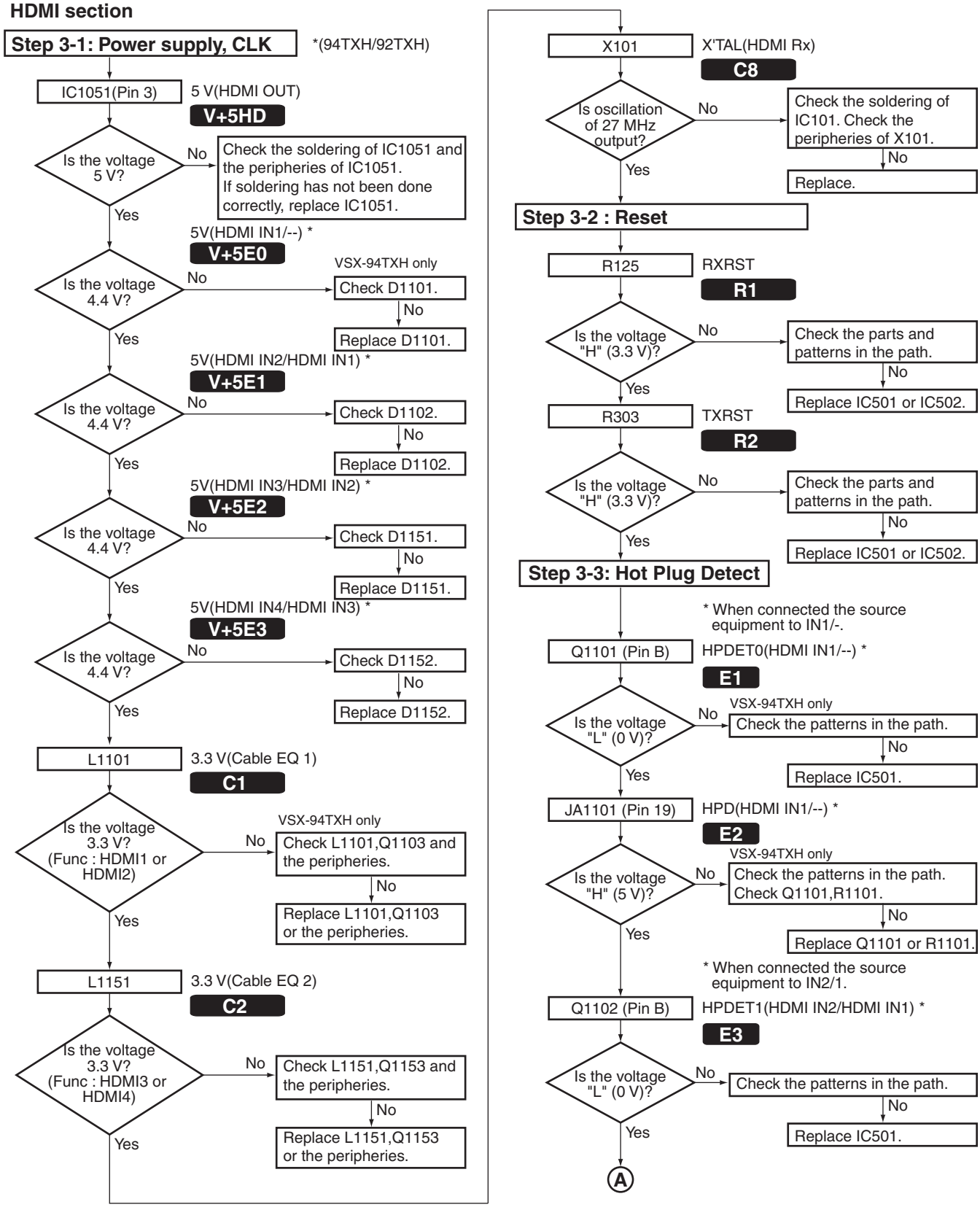
CN1001(Pin 23) — HDRST — **B2**

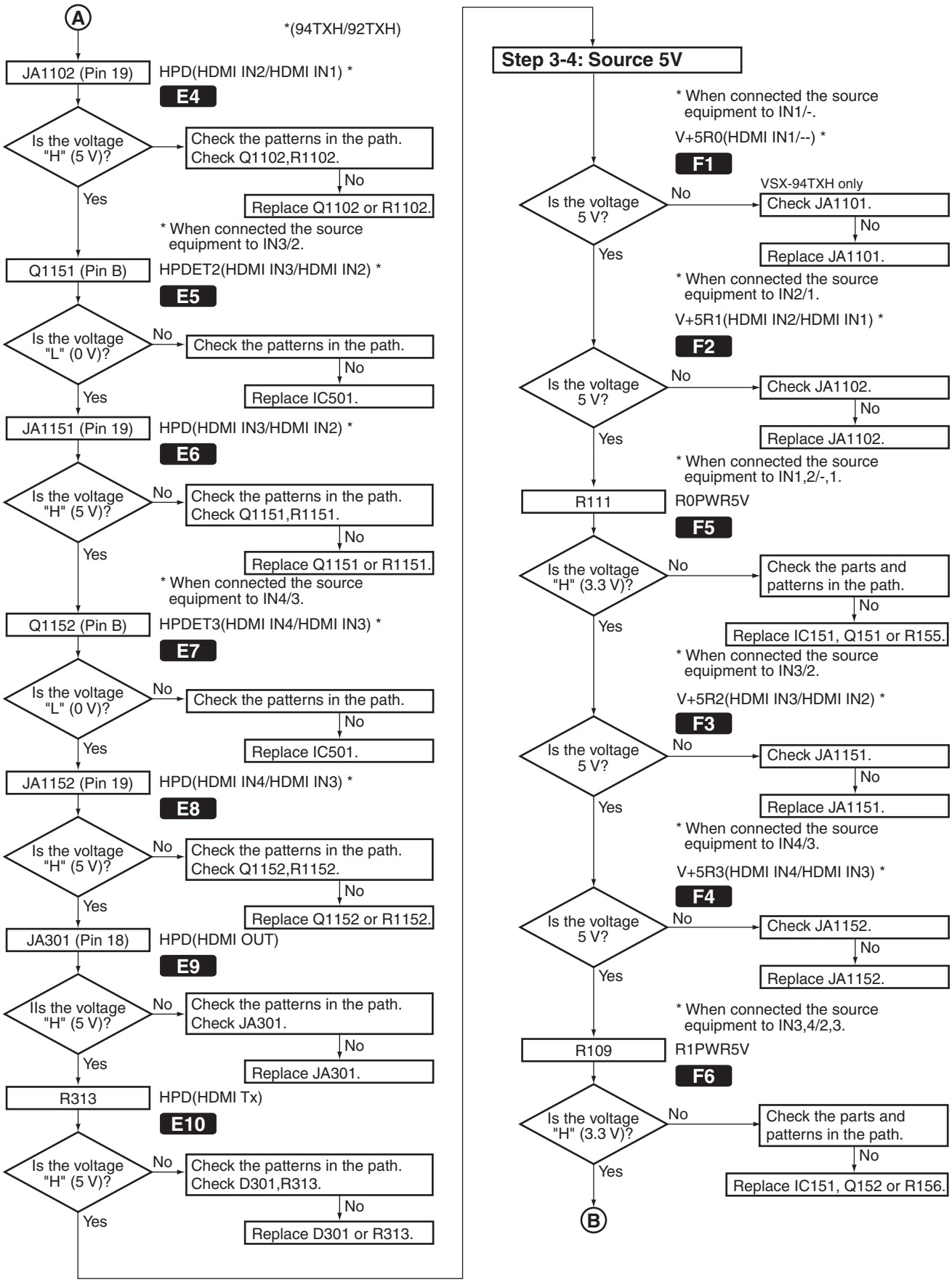
Is the voltage "H" (3.3 V)?
- No → Check the parts and patterns in the path.
  - No → Check the INTERFACE Assy or DIGITAL MOTHER Assy.
- Yes

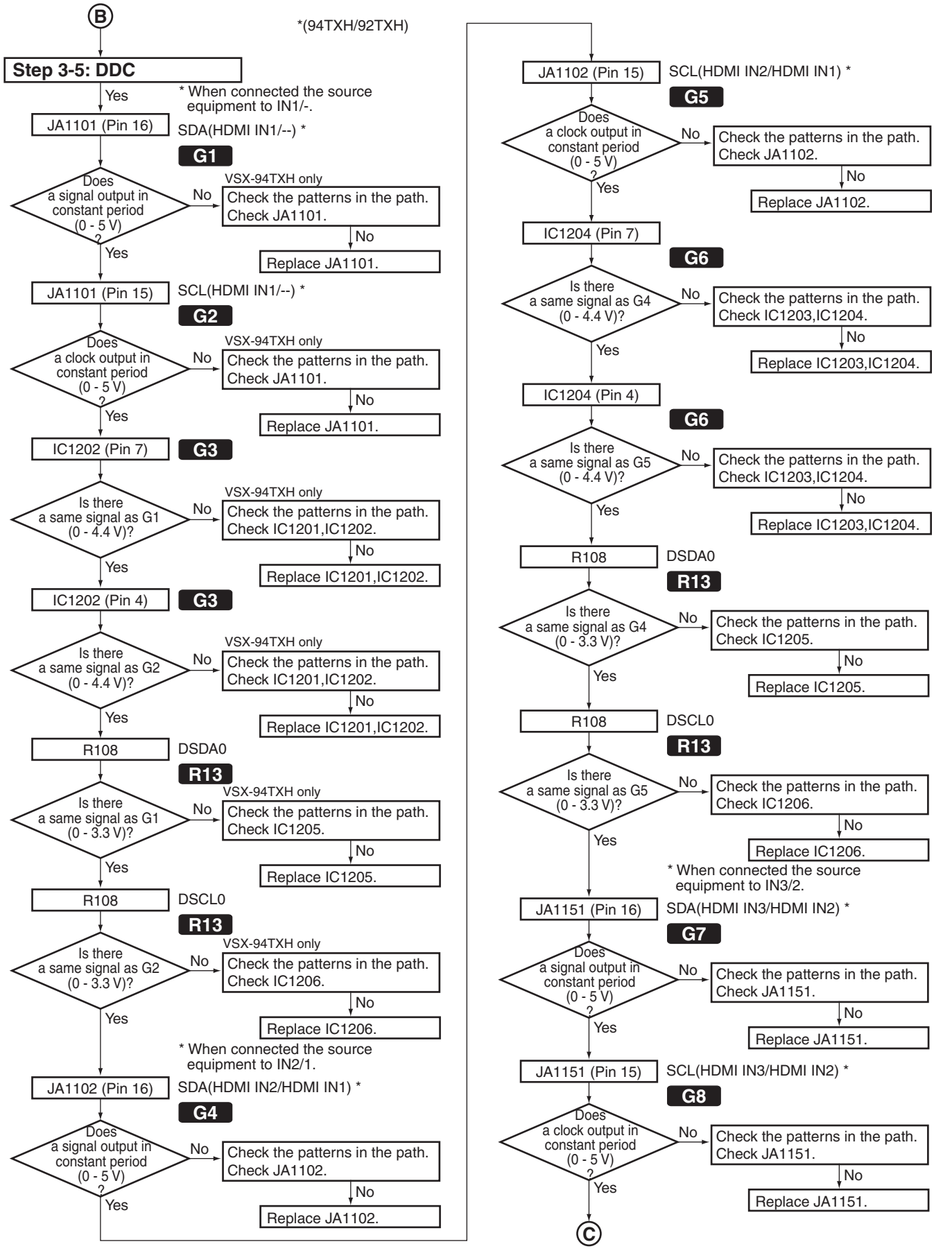
HDMI (HDMI input) diagnosis : To Step 3-1 → Scaler diagnosis : To Step 5-1

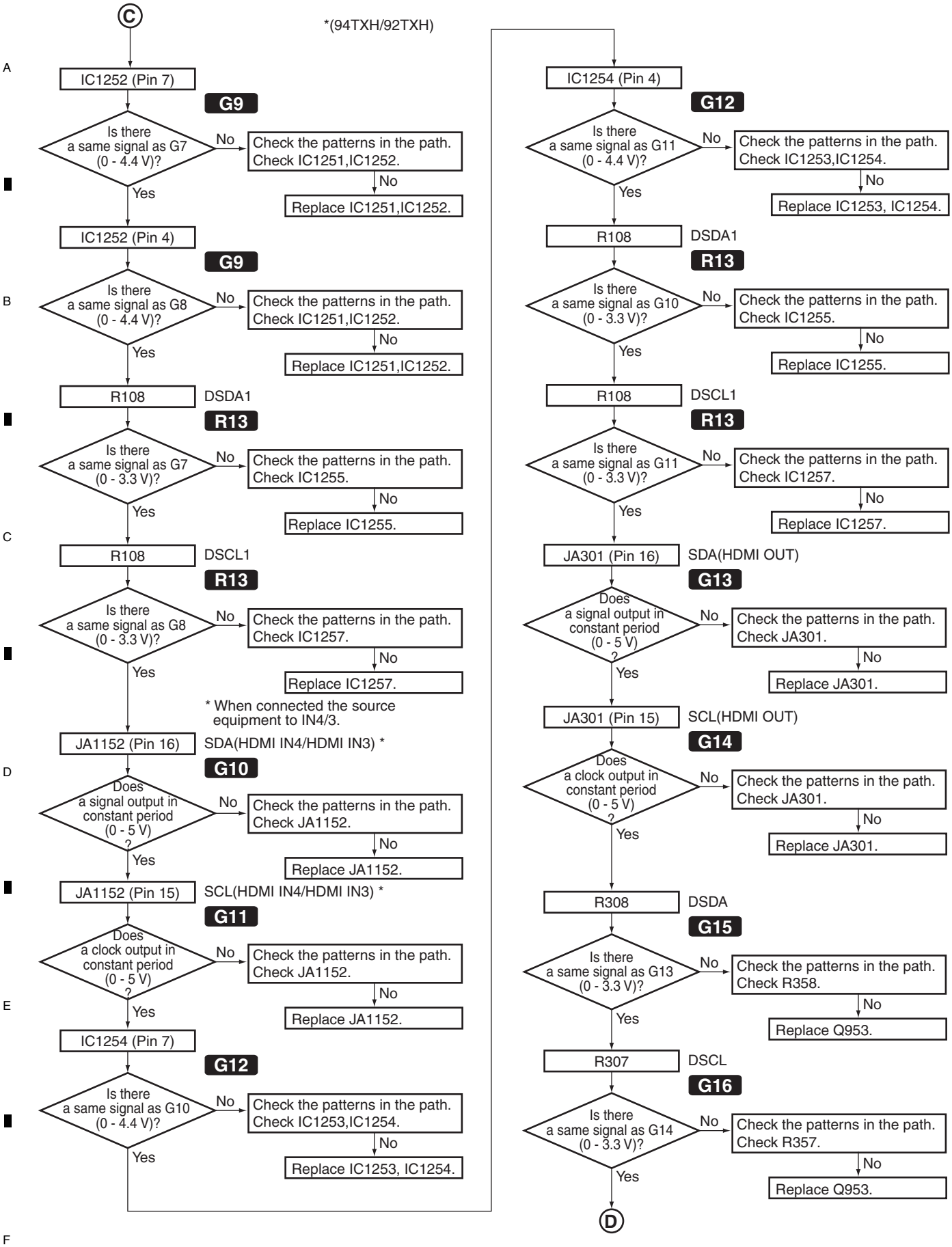
Video converter (Analog input) diagnosis : To Step 4-1 → Scaler diagnosis : To Step 5-1

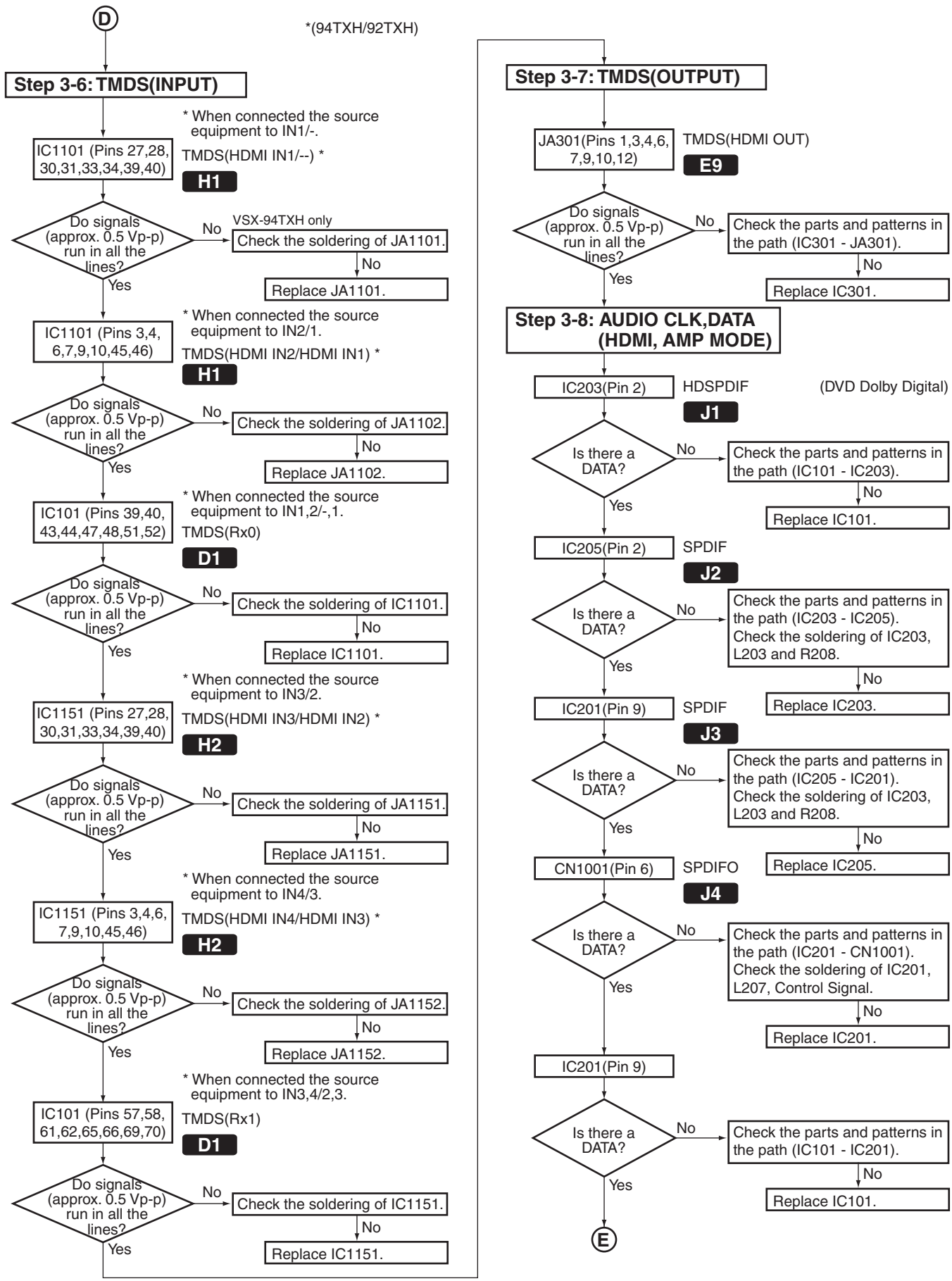
HDMI section

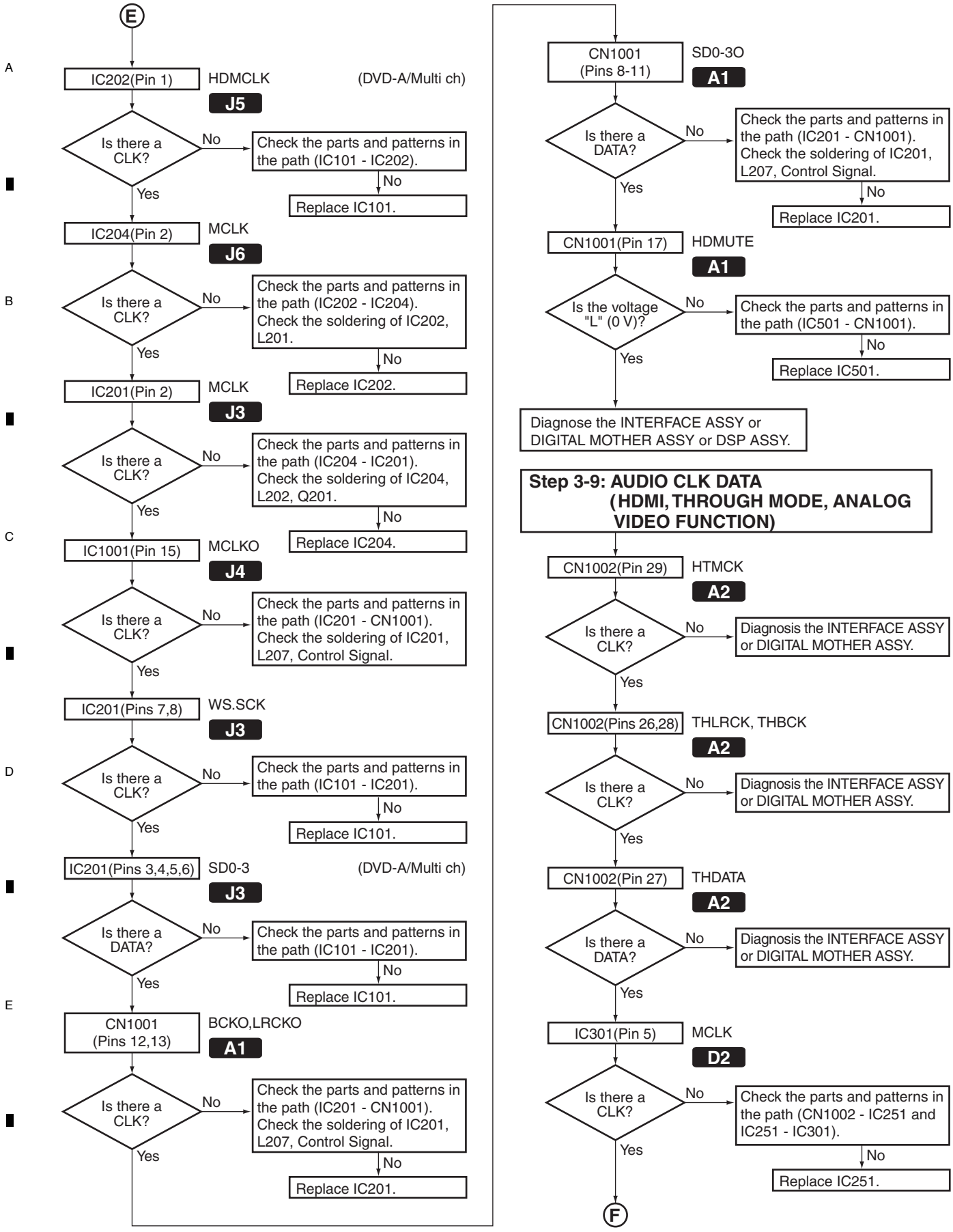


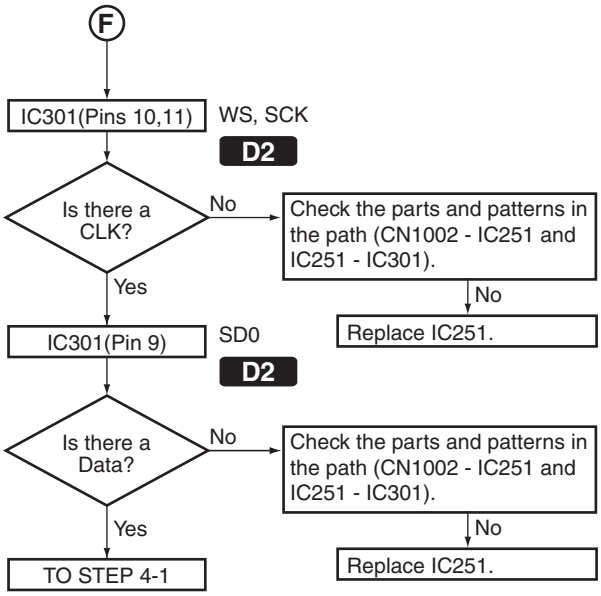

A
*(94TXH/92TXH)
JA1102 (Pin 19)
HPD(HDMI IN2/HDMI IN1) *
E4
Is the voltage "H" (5 V)?
Check the patterns in the path. Check Q1102,R1102.
No
Replace Q1102 or R1102.
Yes
* When connected the source equipment to IN3/2.
Q1151 (Pin B)
HPDET2(HDMI IN3/HDMI IN2) *
E5
Is the voltage "L" (0 V)?
No
Check the patterns in the path.
No
Replace IC501.
Yes
JA1151 (Pin 19)
HPD(HDMI IN3/HDMI IN2) *
E6
Is the voltage "H" (5 V)?
No
Check the patterns in the path. Check Q1151,R1151.
No
Replace Q1151 or R1151.
Yes
* When connected the source equipment to IN4/3.
Q1152 (Pin B)
HPDET3(HDMI IN4/HDMI IN3) *
E7
Is the voltage "L" (0 V)?
No
Check the patterns in the path.
No
Replace IC501.
Yes
JA1152 (Pin 19)
HPD(HDMI IN4/HDMI IN3) *
E8
Is the voltage "H" (5 V)?
No
Check the patterns in the path. Check Q1152,R1152.
No
Replace Q1152 or R1152.
Yes
JA301 (Pin 18)
HPD(HDMI OUT)
E9
IIs the voltage "H" (5 V)?
No
Check the patterns in the path. Check JA301.
No
Replace JA301.
Yes
R313
HPD(HDMI Tx)
E10
Is the voltage "H" (5 V)?
No
Check the patterns in the path. Check D301,R313.
No
Replace D301 or R313.
Yes
Step 3-4: Source 5V
* When connected the source equipment to IN1/-.
V+5R0(HDMI IN1/--) *
F1
Is the voltage 5 V?
No
VSX-94TXH only
Check JA1101.
No
Replace JA1101.
Yes
* When connected the source equipment to IN2/1.
V+5R1(HDMI IN2/HDMI IN1) *
F2
Is the voltage 5 V?
No
Check JA1102.
No
Replace JA1102.
Yes
* When connected the source equipment to IN1,2/-,1.
R111
R0PWR5V
F5
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Replace IC151, Q151 or R155.
Yes
* When connected the source equipment to IN3/2.
V+5R2(HDMI IN3/HDMI IN2) *
F3
Is the voltage 5 V?
No
Check JA1151.
No
Replace JA1151.
Yes
* When connected the source equipment to IN4/3.
V+5R3(HDMI IN4/HDMI IN3) *
F4
Is the voltage 5 V?
No
Check JA1152.
No
Replace JA1152.
Yes
* When connected the source equipment to IN3,4/2,3.
R109
R1PWR5V
F6
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Replace IC151, Q152 or R156.
Yes
B


B
*(94TXH/92TXH)
Step 3-5: DDC
Yes
* When connected the source equipment to IN1/-.
JA1101 (Pin 16)
SDA(HDMI IN1/--) *
G1
Does a signal output in constant period (0 - 5 V) ?
No
VSX-94TXH only
Check the patterns in the path. Check JA1101.
No
Replace JA1101.
Yes
JA1101 (Pin 15)
SCL(HDMI IN1/--) *
G2
Does a clock output in constant period (0 - 5 V) ?
No
VSX-94TXH only
Check the patterns in the path. Check JA1101.
No
Replace JA1101.
Yes
IC1202 (Pin 7)
G3
Is there a same signal as G1 (0 - 4.4 V)?
No
VSX-94TXH only
Check the patterns in the path. Check IC1201,IC1202.
No
Replace IC1201,IC1202.
Yes
IC1202 (Pin 4)
G3
Is there a same signal as G2 (0 - 4.4 V)?
No
VSX-94TXH only
Check the patterns in the path. Check IC1201,IC1202.
No
Replace IC1201,IC1202.
Yes
R108
DSDA0
R13
Is there a same signal as G1 (0 - 3.3 V)?
No
VSX-94TXH only
Check the patterns in the path. Check IC1205.
No
Replace IC1205.
Yes
R108
DSCL0
R13
Is there a same signal as G2 (0 - 3.3 V)?
No
VSX-94TXH only
Check the patterns in the path. Check IC1206.
No
Replace IC1206.
Yes
* When connected the source equipment to IN2/1.
JA1102 (Pin 16)
SDA(HDMI IN2/HDMI IN1) *
G4
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check JA1102.
No
Replace JA1102.
Yes
JA1102 (Pin 15)
SCL(HDMI IN2/HDMI IN1) *
G5
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check JA1102.
No
Replace JA1102.
Yes
IC1204 (Pin 7)
G6
Is there a same signal as G4 (0 - 4.4 V)?
No
Check the patterns in the path. Check IC1203,IC1204.
No
Replace IC1203,IC1204.
Yes
IC1204 (Pin 4)
G6
Is there a same signal as G5 (0 - 4.4 V)?
No
Check the patterns in the path. Check IC1203,IC1204.
No
Replace IC1203,IC1204.
Yes
R108
DSDA0
R13
Is there a same signal as G4 (0 - 3.3 V)?
No
Check the patterns in the path. Check IC1205.
No
Replace IC1205.
Yes
R108
DSCL0
R13
Is there a same signal as G5 (0 - 3.3 V)?
No
Check the patterns in the path. Check IC1206.
No
Replace IC1206.
Yes
* When connected the source equipment to IN3/2.
JA1151 (Pin 16)
SDA(HDMI IN3/HDMI IN2) *
G7
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check JA1151.
No
Replace JA1151.
Yes
JA1151 (Pin 15)
SCL(HDMI IN3/HDMI IN2) *
G8
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check JA1151.
No
Replace JA1151.
Yes
C

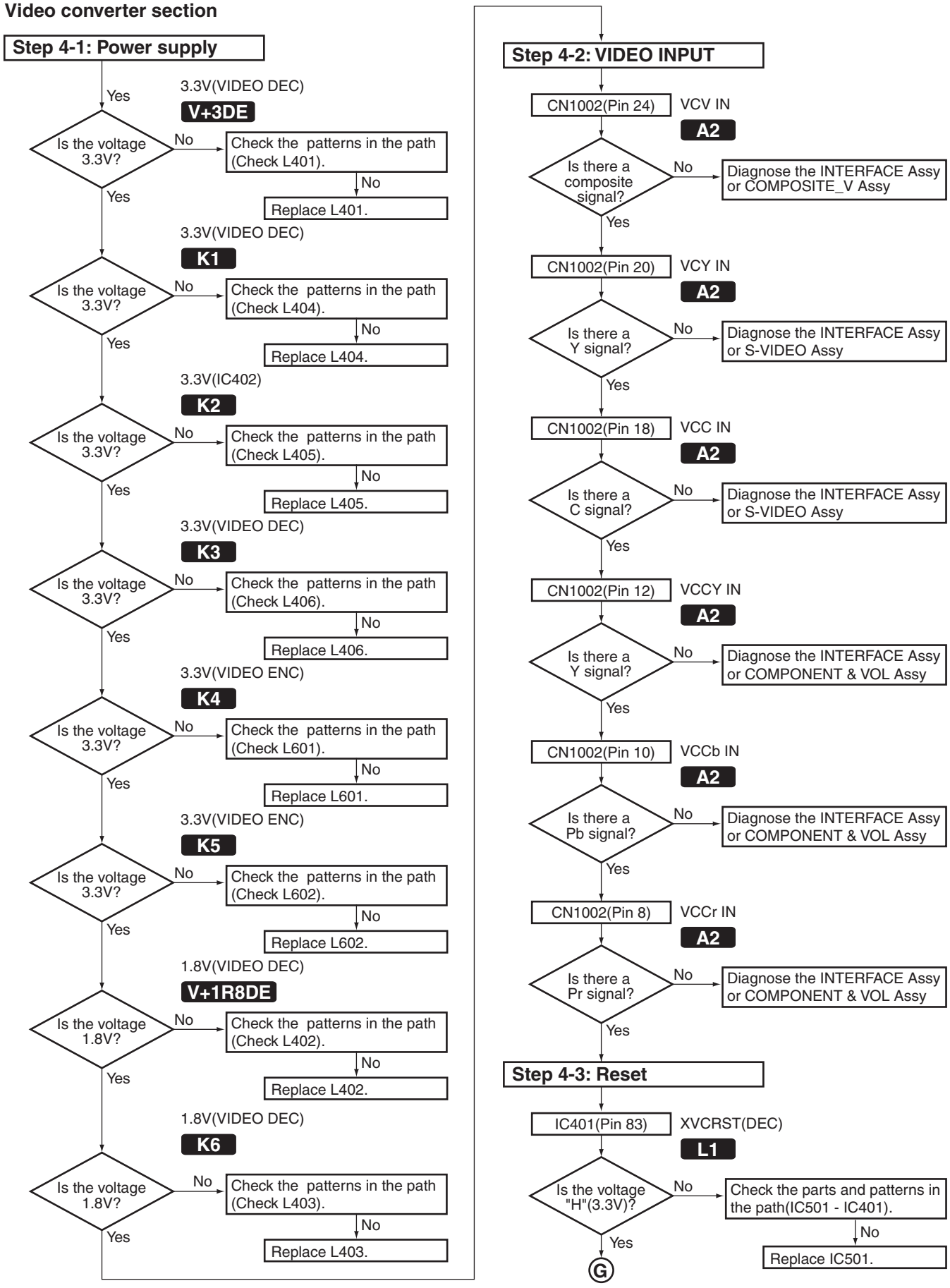

C
*(94TXH/92TXH)
IC1252 (Pin 7)
G9
Is there a same signal as G7 (0 - 4.4 V)?
No
Check the patterns in the path. Check IC1251,IC1252.
No
Replace IC1251,IC1252.
Yes
IC1252 (Pin 4)
G9
Is there a same signal as G8 (0 - 4.4 V)?
No
Check the patterns in the path. Check IC1251,IC1252.
No
Replace IC1251,IC1252.
Yes
R108
DSDA1
R13
Is there a same signal as G7 (0 - 3.3 V)?
No
Check the patterns in the path. Check IC1255.
No
Replace IC1255.
Yes
R108
DSCL1
R13
Is there a same signal as G8 (0 - 3.3 V)?
No
Check the patterns in the path. Check IC1257.
No
Replace IC1257.
Yes
* When connected the source equipment to IN4/3.
JA1152 (Pin 16)
SDA(HDMI IN4/HDMI IN3) *
G10
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check JA1152.
No
Replace JA1152.
Yes
JA1152 (Pin 15)
SCL(HDMI IN4/HDMI IN3) *
G11
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check JA1152.
No
Replace JA1152.
Yes
IC1254 (Pin 7)
G12
Is there a same signal as G10 (0 - 4.4 V)?
No
Check the patterns in the path. Check IC1253,IC1254.
No
Replace IC1253, IC1254.
Yes
IC1254 (Pin 4)
G12
Is there a same signal as G11 (0 - 4.4 V)?
No
Check the patterns in the path. Check IC1253,IC1254.
No
Replace IC1253, IC1254.
Yes
R108
DSDA1
R13
Is there a same signal as G10 (0 - 3.3 V)?
No
Check the patterns in the path. Check IC1255.
No
Replace IC1255.
Yes
R108
DSCL1
R13
Is there a same signal as G11 (0 - 3.3 V)?
No
Check the patterns in the path. Check IC1257.
No
Replace IC1257.
Yes
JA301 (Pin 16)
SDA(HDMI OUT)
G13
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check JA301.
No
Replace JA301.
Yes
JA301 (Pin 15)
SCL(HDMI OUT)
G14
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check JA301.
No
Replace JA301.
Yes
R308
DSDA
G15
Is there a same signal as G13 (0 - 3.3 V)?
No
Check the patterns in the path. Check R358.
No
Replace Q953.
Yes
R307
DSCL
G16
Is there a same signal as G14 (0 - 3.3 V)?
No
Check the patterns in the path. Check R357.
No
Replace Q953.
Yes
D

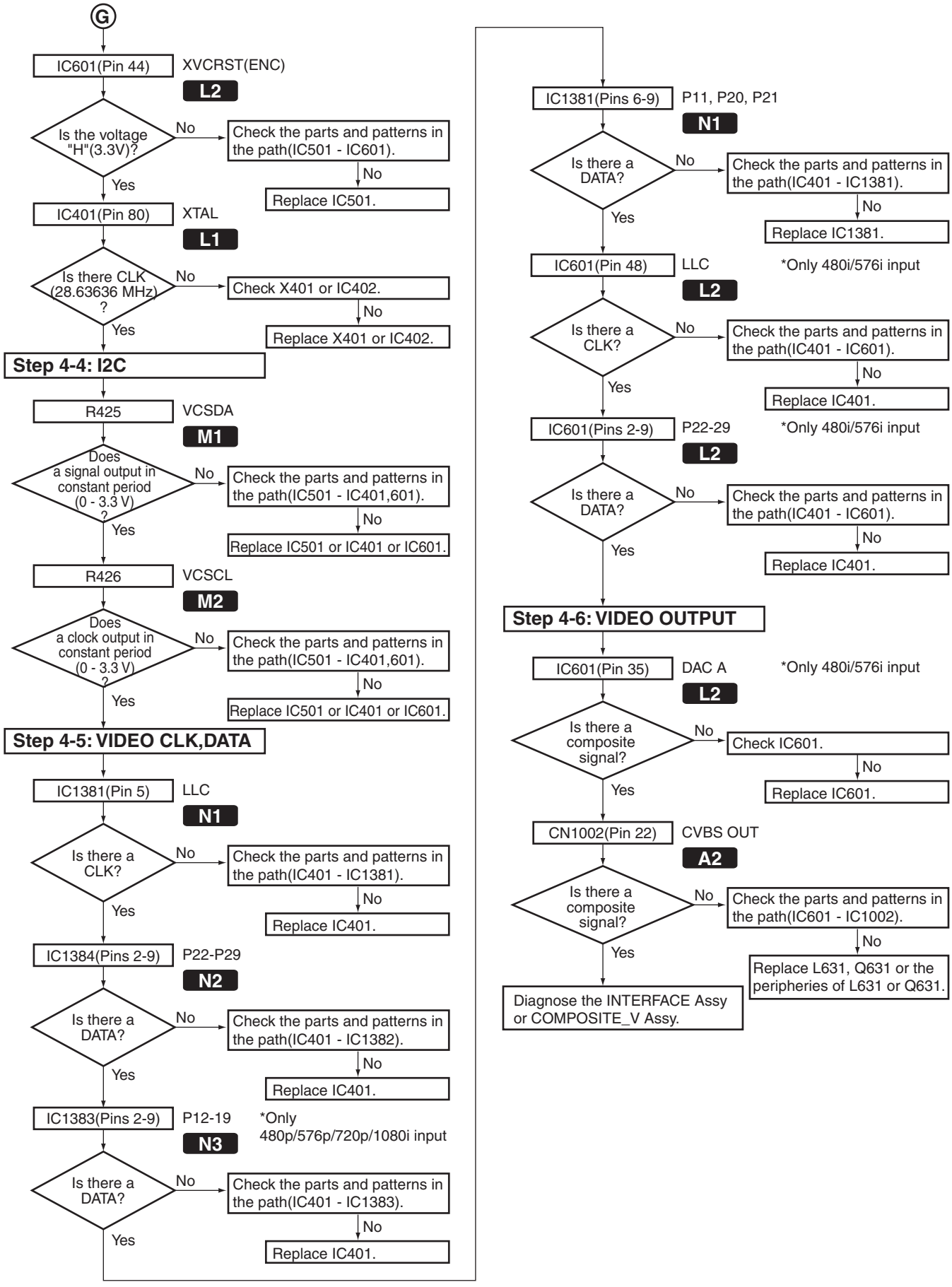

D
*(94TXH/92TXH)
Step 3-6: TMDS(INPUT)
* When connected the source equipment to IN1/-.
IC1101 (Pins 27,28, 30,31,33,34,39,40)
TMDS(HDMI IN1/--) *
H1
Do signals (approx. 0.5 Vp-p) run in all the lines?
No
VSX-94TXH only
Check the soldering of JA1101.
No
Replace JA1101.
Yes
* When connected the source equipment to IN2/1.
IC1101 (Pins 3,4, 6,7,9,10,45,46)
TMDS(HDMI IN2/HDMI IN1) *
H1
Do signals (approx. 0.5 Vp-p) run in all the lines?
No
Check the soldering of JA1102.
No
Replace JA1102.
Yes
* When connected the source equipment to IN1,2/-,1.
IC101 (Pins 39,40, 43,44,47,48,51,52)
TMDS(Rx0)
D1
Do signals (approx. 0.5 Vp-p) run in all the lines?
No
Check the soldering of IC1101.
No
Replace IC1101.
Yes
* When connected the source equipment to IN3/2.
IC1151 (Pins 27,28, 30,31,33,34,39,40)
TMDS(HDMI IN3/HDMI IN2) *
H2
Do signals (approx. 0.5 Vp-p) run in all the lines?
No
Check the soldering of JA1151.
No
Replace JA1151.
Yes
* When connected the source equipment to IN4/3.
IC1151 (Pins 3,4,6, 7,9,10,45,46)
TMDS(HDMI IN4/HDMI IN3) *
H2
Do signals (approx. 0.5 Vp-p) run in all the lines?
No
Check the soldering of JA1152.
No
Replace JA1152.
Yes
* When connected the source equipment to IN3,4/2,3.
IC101 (Pins 57,58, 61,62,65,66,69,70)
TMDS(Rx1)
D1
Do signals (approx. 0.5 Vp-p) run in all the lines?
No
Check the soldering of IC1151.
No
Replace IC1151.
Yes
Step 3-7: TMDS(OUTPUT)
JA301(Pins 1,3,4,6, 7,9,10,12)
TMDS(HDMI OUT)
E9
Do signals (approx. 0.5 Vp-p) run in all the lines?
No
Check the parts and patterns in the path (IC301 - JA301).
No
Replace IC301.
Yes
Step 3-8: AUDIO CLK,DATA (HDMI, AMP MODE)
IC203(Pin 2)
HDSPDIF
(DVD Dolby Digital)
J1
Is there a DATA?
No
Check the parts and patterns in the path (IC101 - IC203).
No
Replace IC101.
Yes
IC205(Pin 2)
SPDIF
J2
Is there a DATA?
No
Check the parts and patterns in the path (IC203 - IC205). Check the soldering of IC203, L203 and R208.
No
Replace IC203.
Yes
IC201(Pin 9)
SPDIF
J3
Is there a DATA?
No
Check the parts and patterns in the path (IC205 - IC201). Check the soldering of IC203, L203 and R208.
No
Replace IC205.
Yes
CN1001(Pin 6)
SPDIFO
J4
Is there a DATA?
No
Check the parts and patterns in the path (IC201 - CN1001). Check the soldering of IC201, L207, Control Signal.
No
Replace IC201.
Yes
IC201(Pin 9)
Is there a DATA?
No
Check the parts and patterns in the path (IC101 - IC201).
No
Replace IC101.
Yes
E

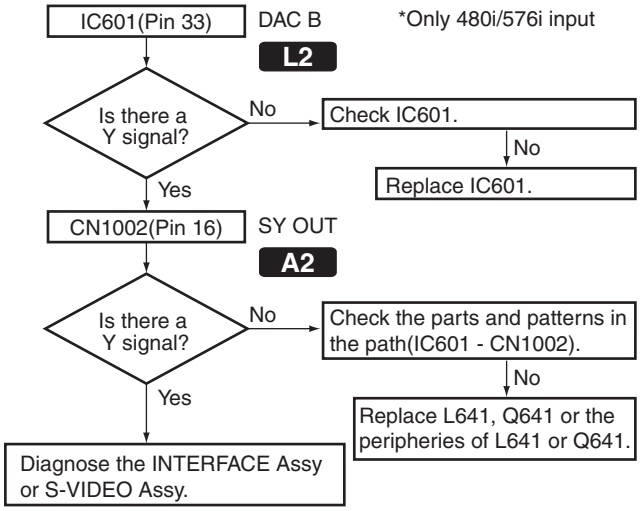

E
IC202(Pin 1)
HDMCLK
(DVD-A/Multi ch)
J5
Is there a CLK?
No
Check the parts and patterns in the path (IC101 - IC202).
No
Replace IC101.
Yes
IC204(Pin 2)
MCLK
J6
Is there a CLK?
No
Check the parts and patterns in the path (IC202 - IC204). Check the soldering of IC202, L201.
No
Replace IC202.
Yes
IC201(Pin 2)
MCLK
J3
Is there a CLK?
No
Check the parts and patterns in the path (IC204 - IC201). Check the soldering of IC204, L202, Q201.
No
Replace IC204.
Yes
IC1001(Pin 15)
MCLKO
J4
Is there a CLK?
No
Check the parts and patterns in the path (IC201 - CN1001). Check the soldering of IC201, L207, Control Signal.
Yes
IC201(Pins 7,8)
WS.SCK
J3
Is there a CLK?
No
Check the parts and patterns in the path (IC101 - IC201).
No
Replace IC101.
Yes
IC201(Pins 3,4,5,6)
SD0-3
(DVD-A/Multi ch)
J3
Is there a DATA?
No
Check the parts and patterns in the path (IC101 - IC201).
No
Replace IC101.
Yes
CN1001 (Pins 12,13)
BCKO,LRCKO
A1
Is there a CLK?
No
Check the parts and patterns in the path (IC201 - CN1001). Check the soldering of IC201, L207, Control Signal.
No
Replace IC201.
Yes
CN1001 (Pins 8-11)
SD0-3O
A1
Is there a DATA?
No
Check the parts and patterns in the path (IC201 - CN1001). Check the soldering of IC201, L207, Control Signal.
No
Replace IC201.
Yes
CN1001(Pin 17)
HDMUTE
A1
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 - CN1001).
No
Replace IC501.
Yes
Diagnose the INTERFACE ASSY or DIGITAL MOTHER ASSY or DSP ASSY.
Step 3-9: AUDIO CLK DATA (HDMI, THROUGH MODE, ANALOG VIDEO FUNCTION)
CN1002(Pin 29)
HTMCK
A2
Is there a CLK?
No
Diagnosis the INTERFACE ASSY or DIGITAL MOTHER ASSY.
Yes
CN1002(Pins 26,28)
THLRCK, THBCK
A2
Is there a CLK?
No
Diagnosis the INTERFACE ASSY or DIGITAL MOTHER ASSY.
Yes
CN1002(Pin 27)
THDATA
A2
Is there a DATA?
No
Diagnosis the INTERFACE ASSY or DIGITAL MOTHER ASSY.
Yes
IC301(Pin 5)
MCLK
D2
Is there a CLK?
No
Check the parts and patterns in the path (CN1002 - IC251 and IC251 - IC301).
No
Replace IC251.
Yes
F

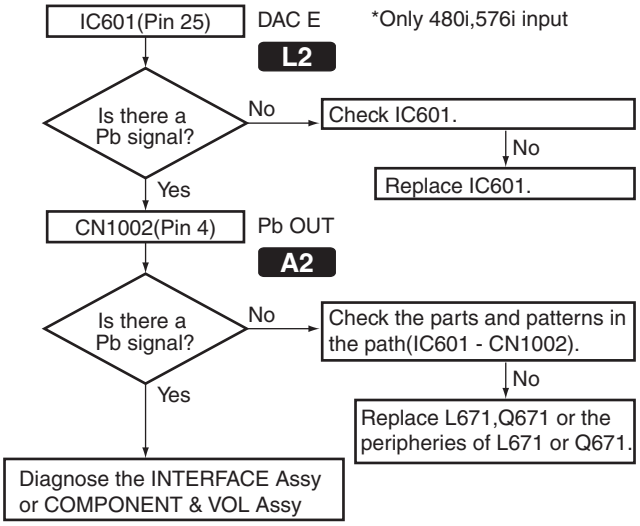

F
IC301(Pins 10,11)
WS, SCK
D2
Is there a CLK?
No
Check the parts and patterns in the path (CN1002 - IC251 and IC251 - IC301).
No
Replace IC251.
Yes
IC301(Pin 9)
SD0
D2
Is there a Data?
No
Check the parts and patterns in the path (CN1002 - IC251 and IC251 - IC301).
No
Replace IC251.
Yes
TO STEP 4-1

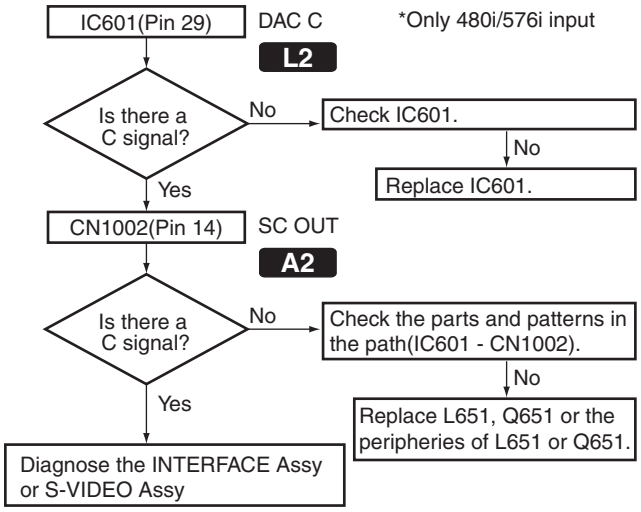
Video converter section

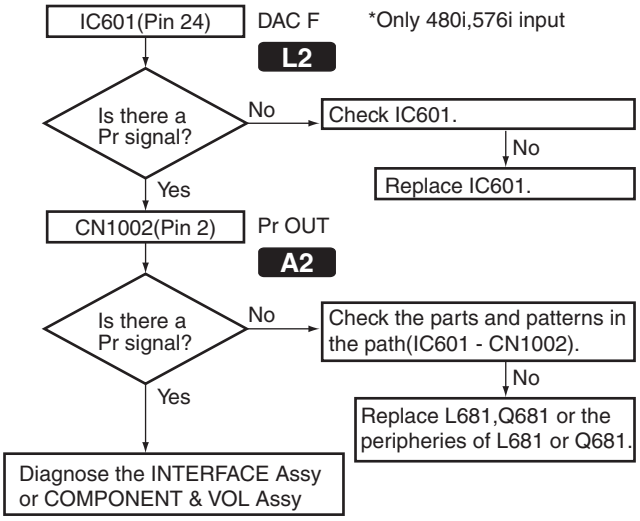


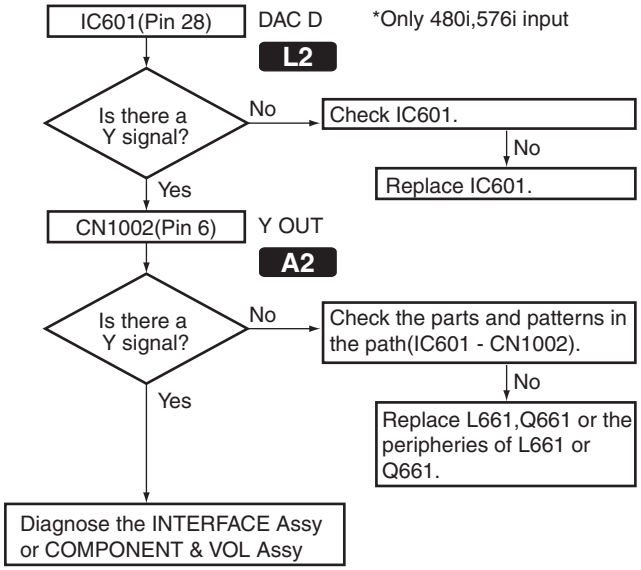

G
IC601(Pin 44)
XVCRST(ENC)
L2
Is the voltage "H"(3.3V)?
No
Check the parts and patterns in the path(IC501 - IC601).
No
Replace IC501.
Yes
IC401(Pin 80)
XTAL
L1
Is there CLK (28.63636 MHz) ?
No
Check X401 or IC402.
No
Replace X401 or IC402.
Yes
Step 4-4: I2C
R425
VCSDA
M1
Does a signal output in constant period (0 - 3.3 V) ?
No
Check the parts and patterns in the path(IC501 - IC401,601).
No
Replace IC501 or IC401 or IC601.
Yes
R426
VCSCL
M2
Does a clock output in constant period (0 - 3.3 V) ?
No
Check the parts and patterns in the path(IC501 - IC401,601).
No
Replace IC501 or IC401 or IC601.
Yes
Step 4-5: VIDEO CLK,DATA
IC1381(Pin 5)
LLC
N1
Is there a CLK?
No
Check the parts and patterns in the path(IC401 - IC1381).
No
Replace IC401.
Yes
IC1384(Pins 2-9)
P22-P29
N2
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC1382).
No
Replace IC401.
Yes
IC1383(Pins 2-9)
P12-19
*Only 480p/576p/720p/1080i input
N3
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC1383).
No
Replace IC401.
Yes
IC1381(Pins 6-9)
P11, P20, P21
N1
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC1381).
No
Replace IC1381.
Yes
IC601(Pin 48)
LLC
*Only 480i/576i input
L2
Is there a CLK?
No
Check the parts and patterns in the path(IC401 - IC601).
No
Replace IC401.
Yes
IC601(Pins 2-9)
P22-29
*Only 480i/576i input
L2
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC601).
No
Replace IC401.
Yes
Step 4-6: VIDEO OUTPUT
IC601(Pin 35)
DAC A
*Only 480i/576i input
L2
Is there a composite signal?
No
Check IC601.
No
Replace IC601.
Yes
CN1002(Pin 22)
CVBS OUT
A2
Is there a composite signal?
No
Check the parts and patterns in the path(IC601 - IC1002).
No
Replace L631, Q631 or the peripheries of L631 or Q631.
Yes
Diagnose the INTERFACE Assy or COMPOSITE_V Assy.


IC601(Pin 33)
DAC B
*Only 480i/576i input
L2
Is there a Y signal?
No
Check IC601.
No
Replace IC601.
Yes
CN1002(Pin 16)
SY OUT
A2
Is there a Y signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L641, Q641 or the peripheries of L641 or Q641.
Yes
Diagnose the INTERFACE Assy or S-VIDEO Assy.

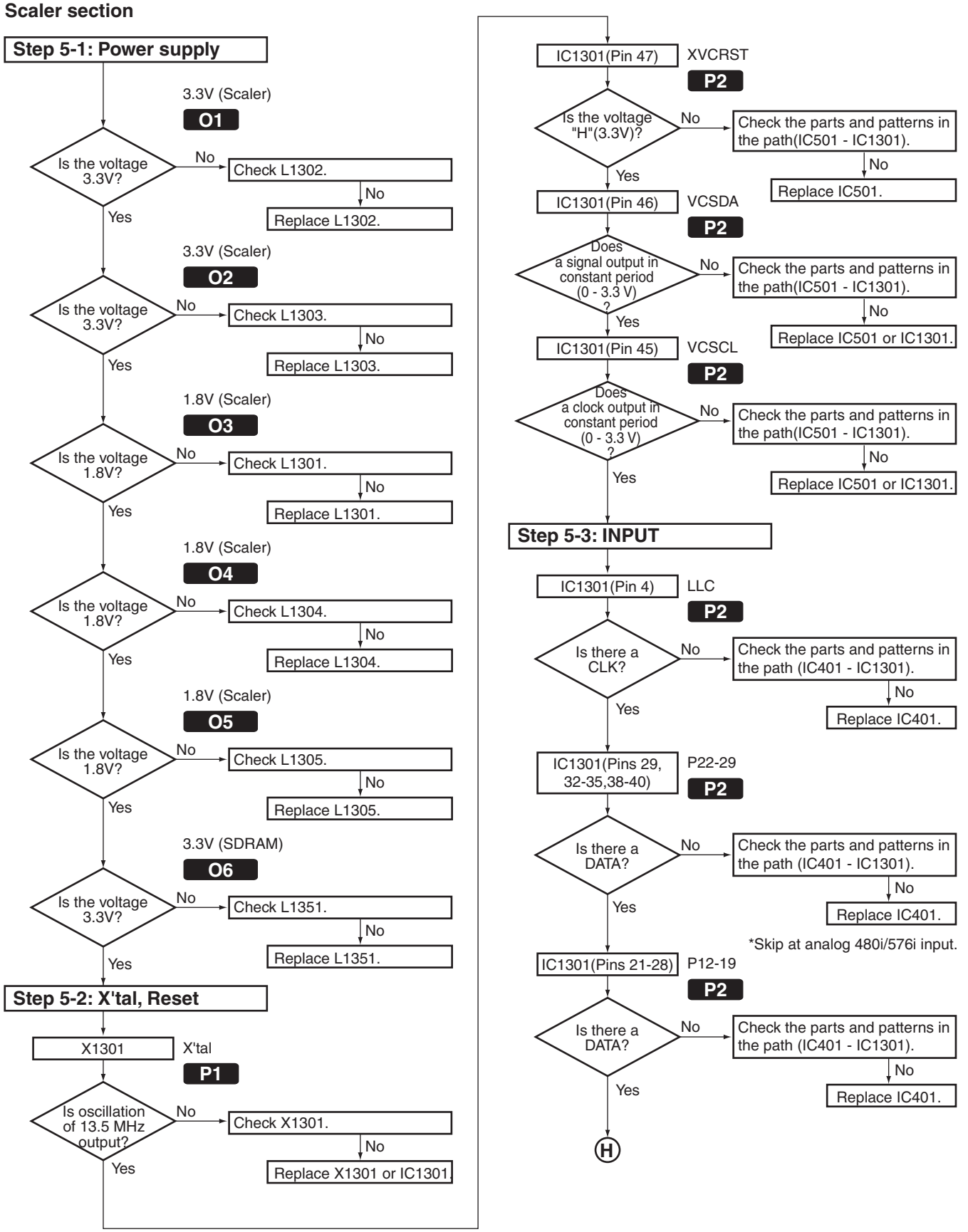

IC601(Pin 25)
DAC E
*Only 480i,576i input
L2
Is there a Pb signal?
No
Check IC601.
No
Replace IC601.
Yes
CN1002(Pin 4)
Pb OUT
A2
Is there a Pb signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L671,Q671 or the peripheries of L671 or Q671.
Yes
Diagnose the INTERFACE Assy or COMPONENT & VOL Assy

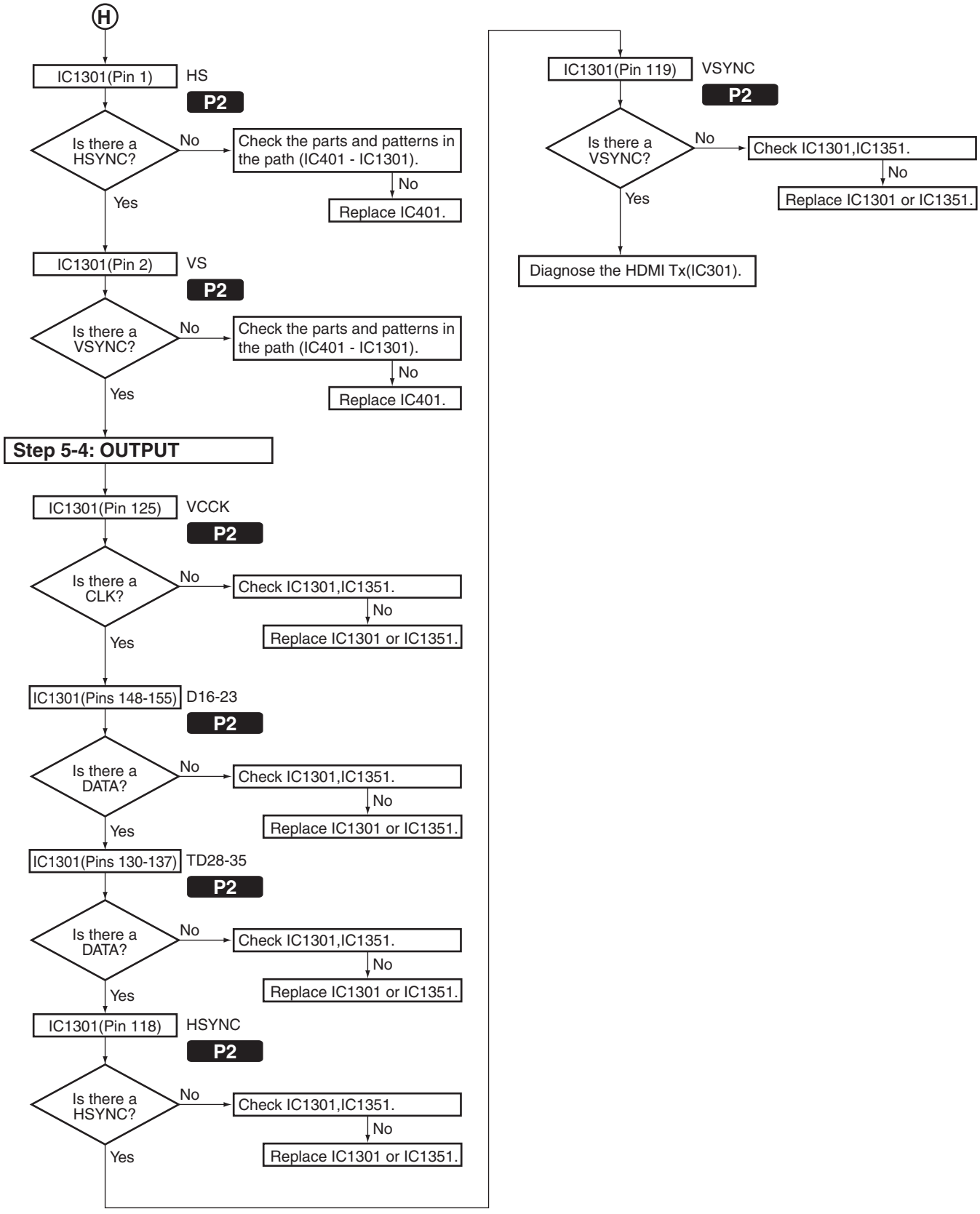

IC601(Pin 29)
DAC C
*Only 480i/576i input
L2
Is there a C signal?
No
Check IC601.
No
Replace IC601.
Yes
CN1002(Pin 14)
SC OUT
A2
Is there a C signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L651, Q651 or the peripheries of L651 or Q651.
Yes
Diagnose the INTERFACE Assy or S-VIDEO Assy


IC601(Pin 24)
DAC F
*Only 480i,576i input
L2
Is there a Pr signal?
No
Check IC601.
No
Replace IC601.
Yes
CN1002(Pin 2)
Pr OUT
A2
Is there a Pr signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L681,Q681 or the peripheries of L681 or Q681.
Yes
Diagnose the INTERFACE Assy or COMPONENT & VOL Assy


IC601(Pin 28)
DAC D
*Only 480i,576i input
L2
Is there a Y signal?
No
Check IC601.
No
Replace IC601.
Yes
CN1002(Pin 6)
Y OUT
A2
Is there a Y signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L661,Q661 or the peripheries of L661 or Q661.
Yes
Diagnose the INTERFACE Assy or COMPONENT & VOL Assy

Scaler section



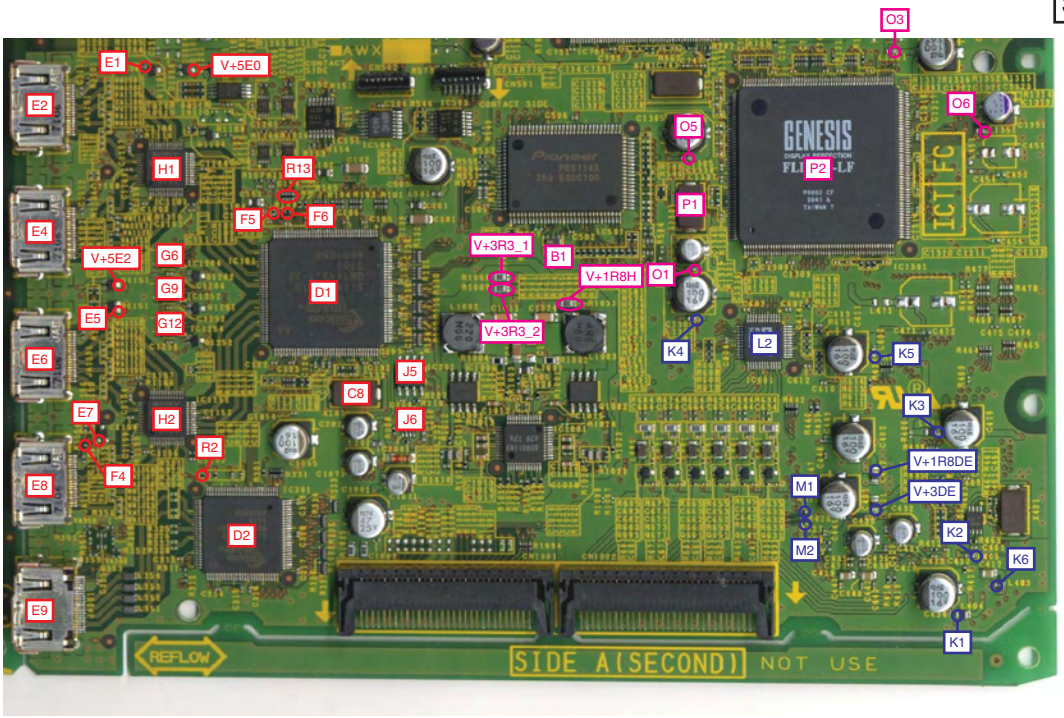

H
IC1301(Pin 1)
HS
P2
Is there a HSYNC?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
IC1301(Pin 2)
VS
P2
Is there a VSYNC?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
Step 5-4: OUTPUT
IC1301(Pin 125)
VCCK
P2
Is there a CLK?
No
Check IC1301,IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pins 148-155)
D16-23
P2
Is there a DATA?
No
Check IC1301,IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pins 130-137)
TD28-35
P2
Is there a DATA?
No
Check IC1301,IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pin 118)
HSYNC
P2
Is there a HSYNC?
No
Check IC1301,IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pin 119)
VSYNC
P2
Is there a VSYNC?
No
Check IC1301,IC1351.
No
Replace IC1301 or IC1351.
Yes
Diagnose the HDMI Tx(IC301).

■ HDMI & DLNA Assy Check Points

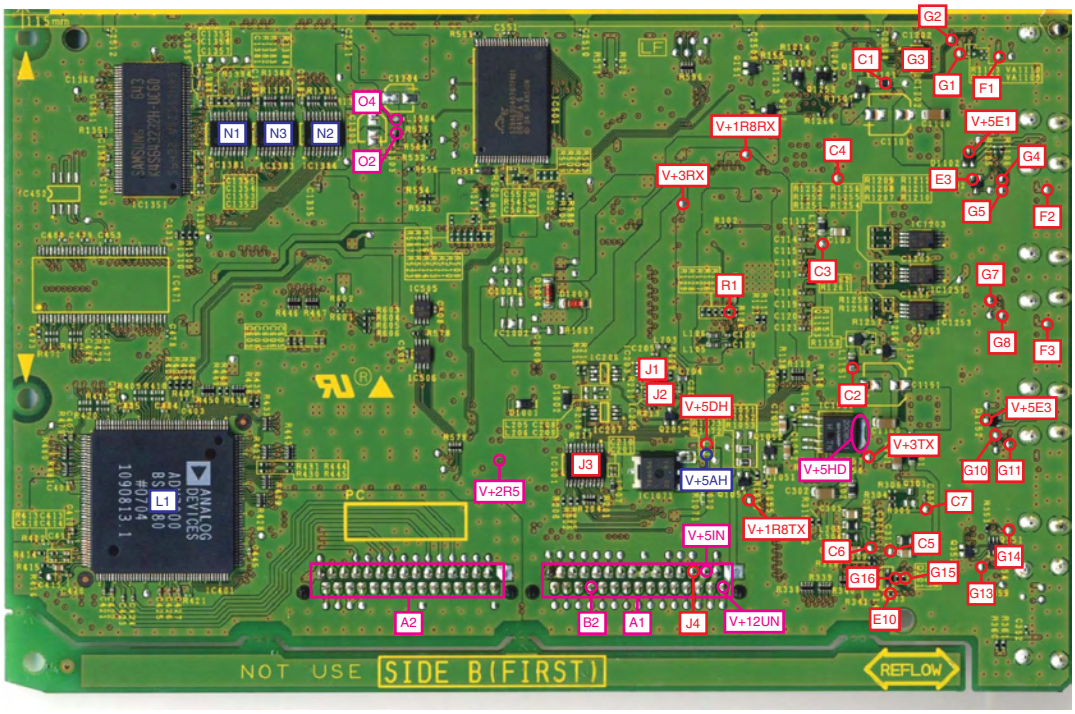
AJ HDMI & DLNA ASSY

Commonness HDMI Video Converter

SIDE A

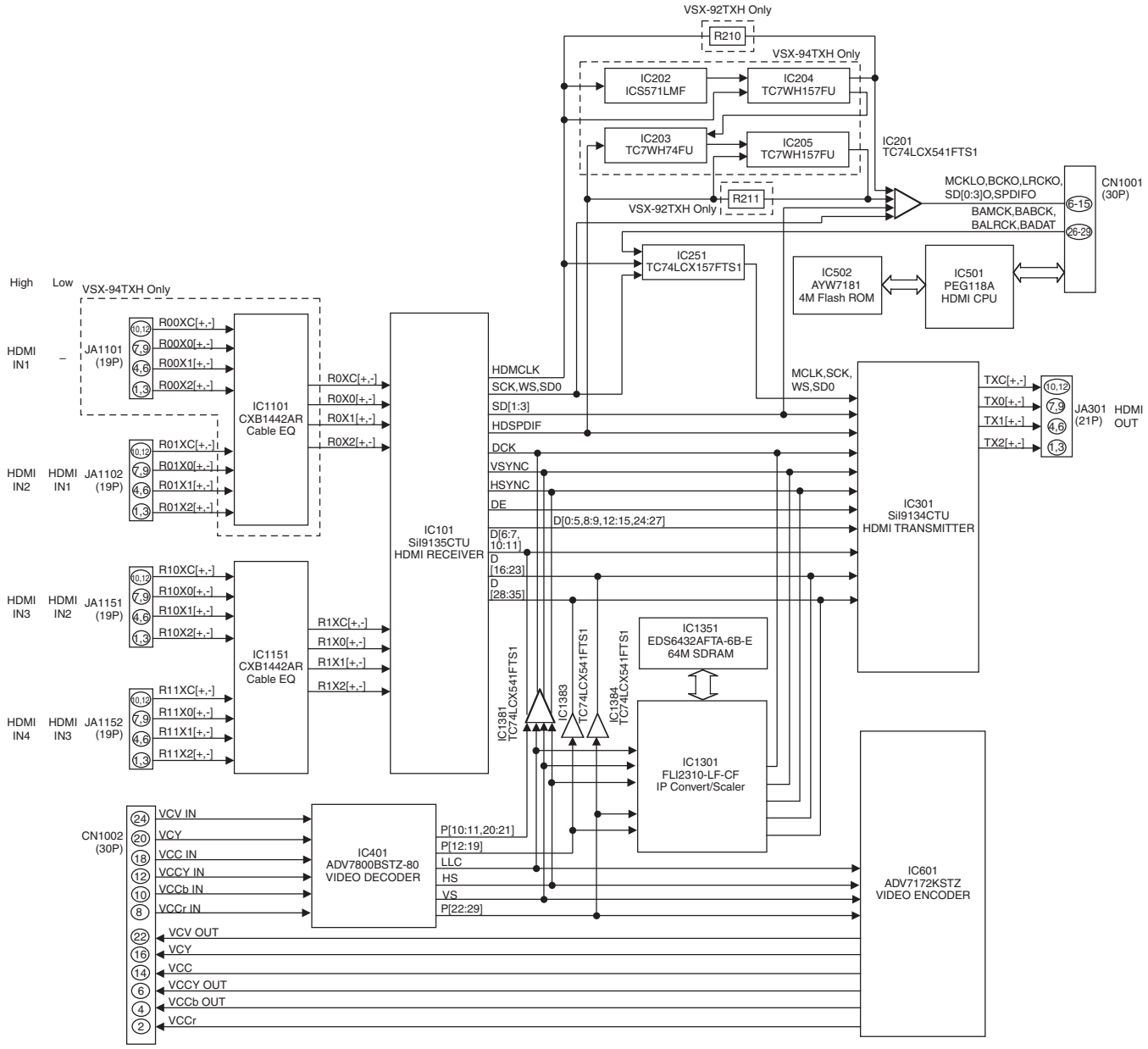


SIDE B



Note : The above photograph is VSX-94TXH. HDMI/DVC block of VSX-92TXH is the same layout.

■ HDMI & DVC Block Diagram



Note : The above Block Diagram is VSX-92TXH. HDMI/DVC block of VSX-94TXH is the same layout.

5.1.3 DIAGNOSIS OF THE NETWORK BLOCK

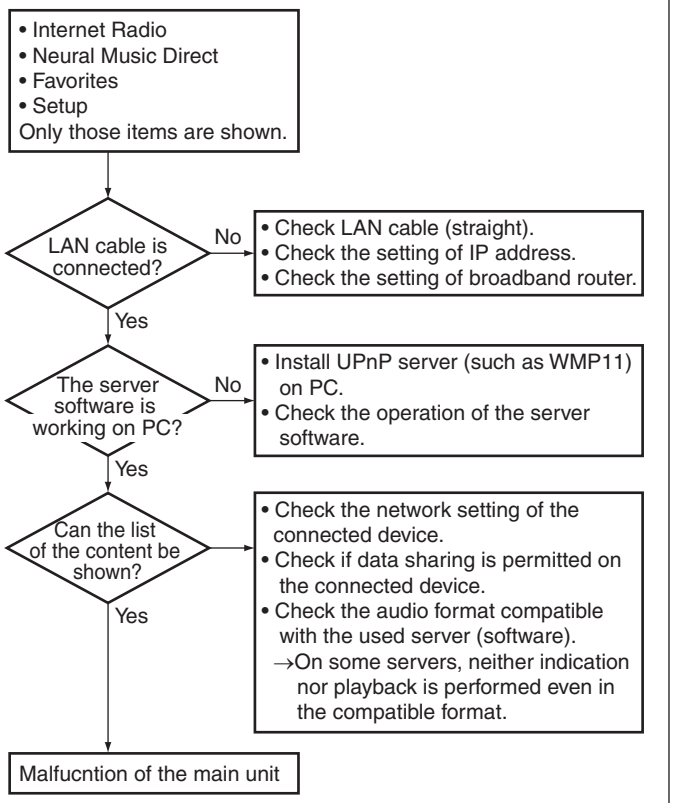
1.Constitution of network function

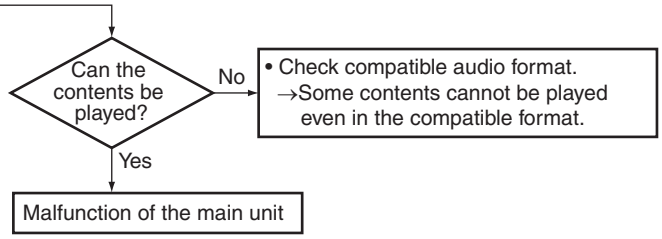
CD --- ..... -- HDMI4 ---- HOME MEDIA GALLERY -- XM RADIO

- USB
- Internet Radio
- Neural Music Direct → Internet radio run by Neural
- Servier1
- Servier2
- Servier3
- Favorites
- Setup
  - Information
    - Firmware Version → Indicates the version of the firmware.
    - MAC Address → Indicates MAC Address.
    - IP Address → Indicates IP Address.
    - Gateway IP → Indicates Gateway IP.
    - Proxy Server → Indicates if Proxy Server is valid or invalid.
    - Subnet Mask → Indicates Subnet Mask.
  - Network Setup

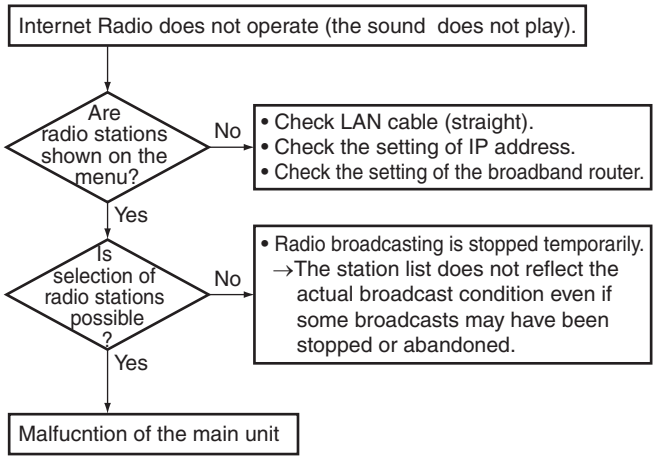
2.Flow chart for isolation of network malfunction

<Network connection>

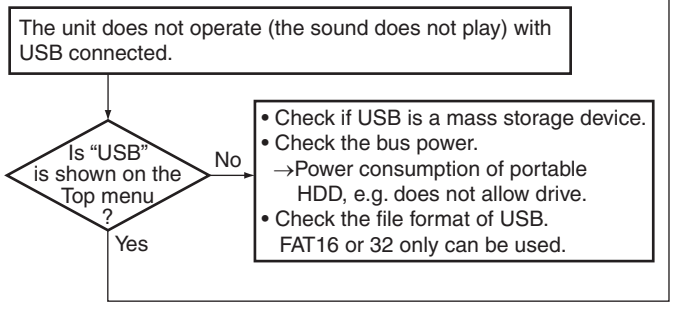




<Internet Radio connection>
(Neural Music Direct is the same.)

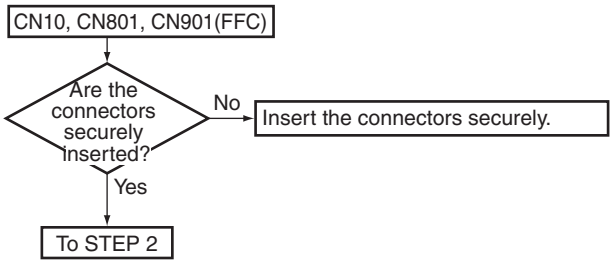


<USB connection>

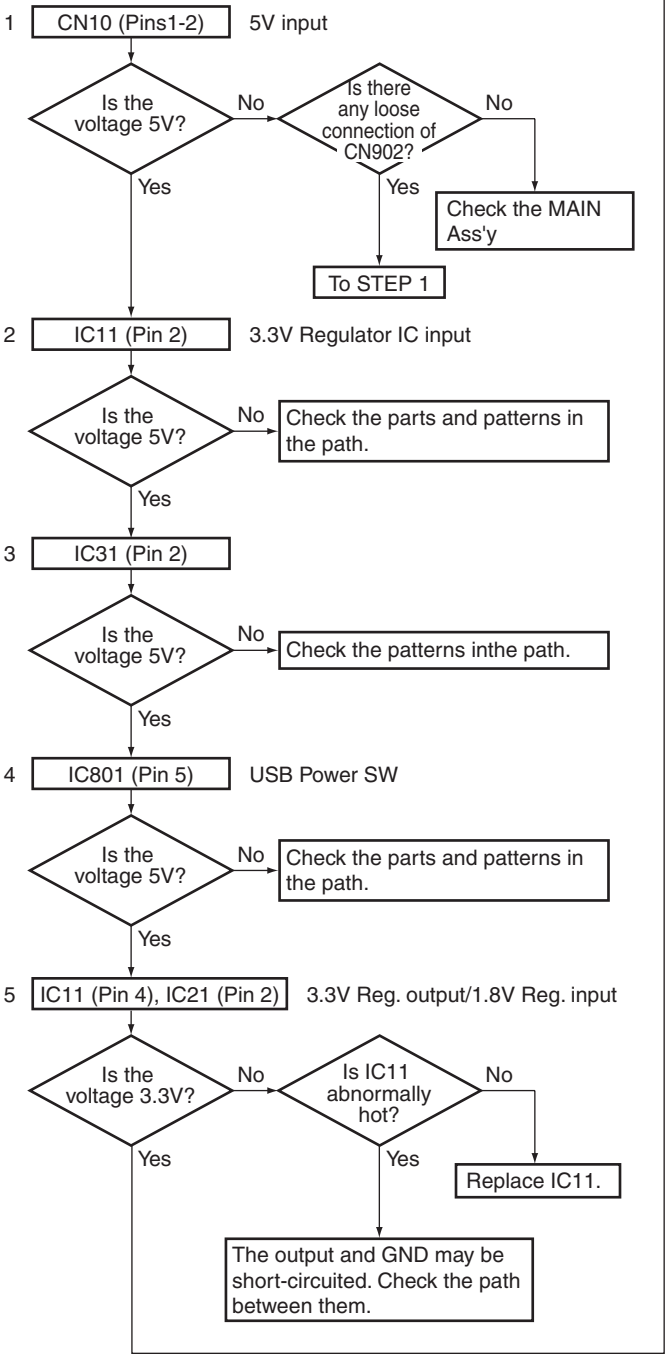


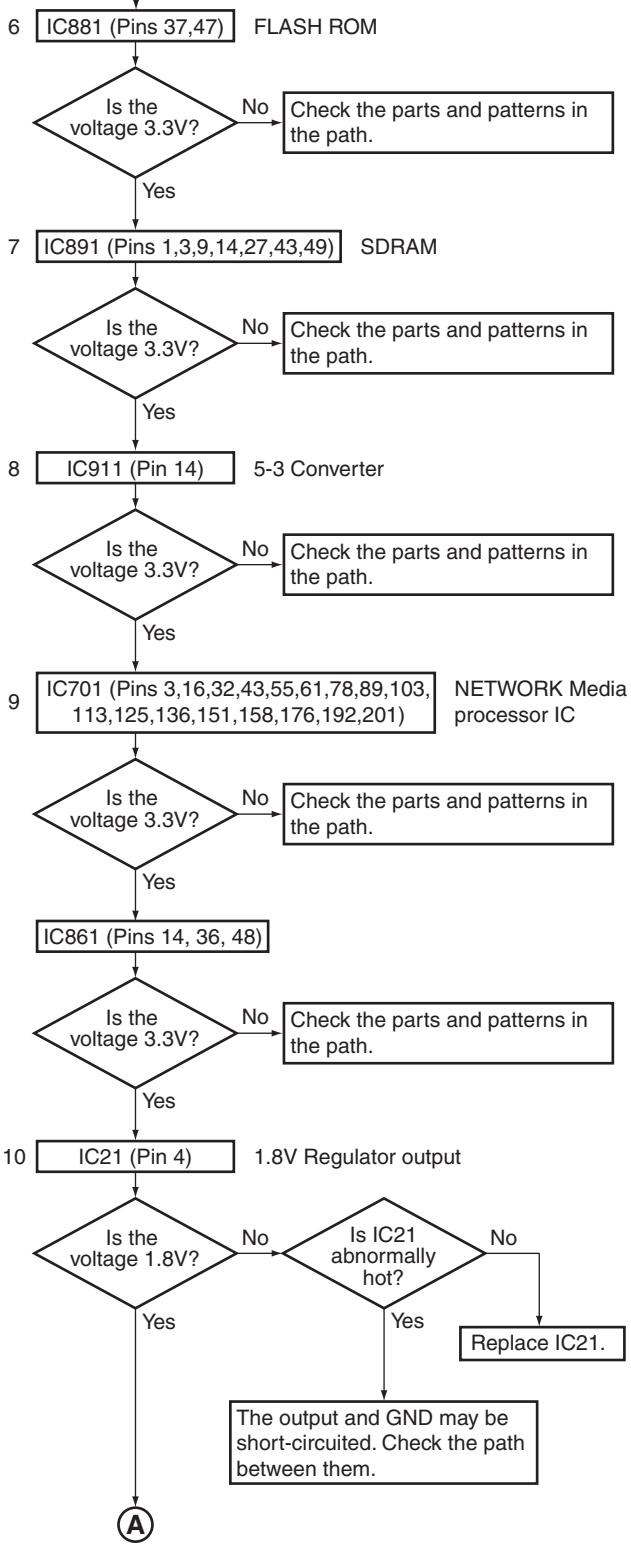
■TROUBLESHOOTING THE NETWORK BLOCK

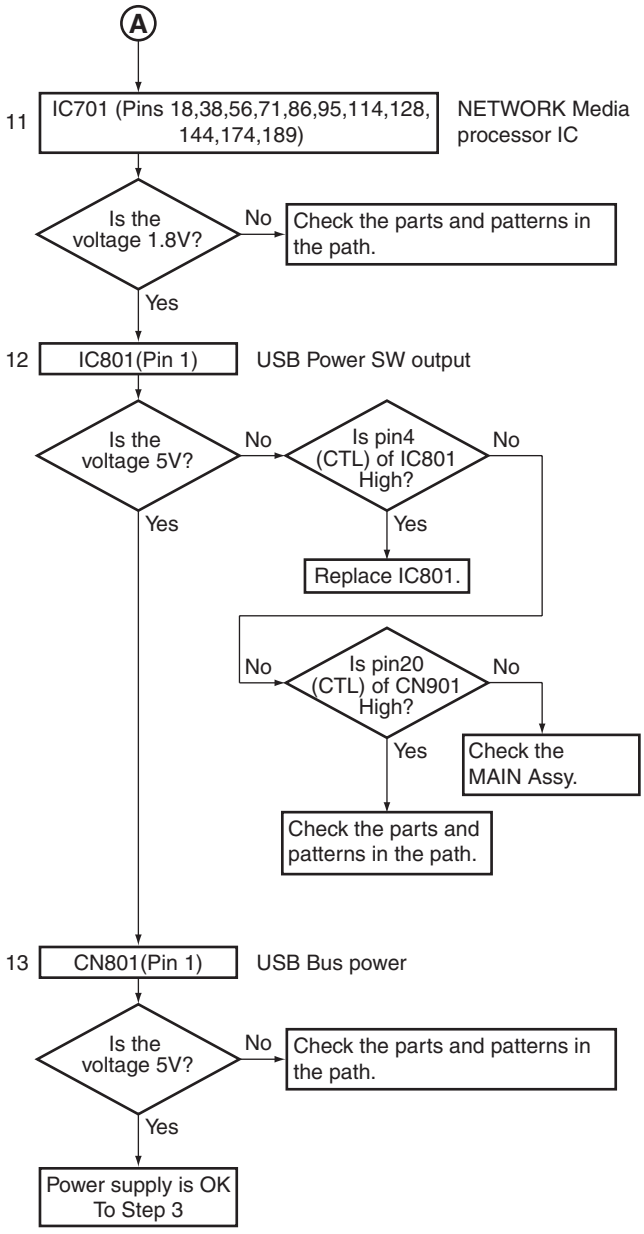
Step 1:Connectors



Step 2:Power supply

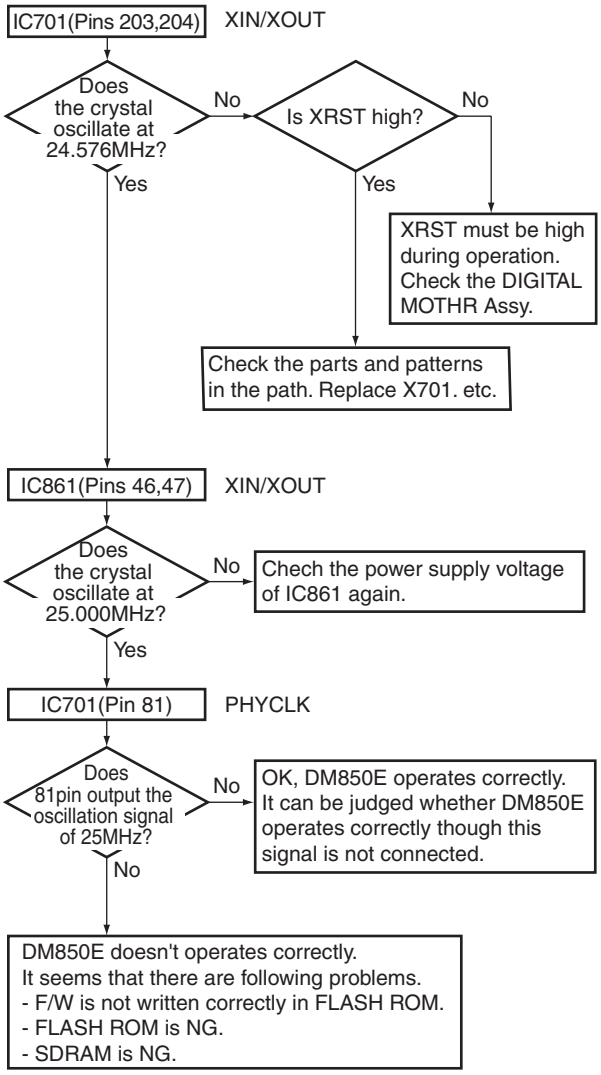






Step 3:Operation of Network Media processor IC

*Please confirm it with the USB memory connected for the content.



Step 4 : Communication between DM850E and System CPU

The signal shown by following fig are communication line of DM850E and main CPU(IC101).
Confirm the connection of the signals along these routes.

fig. 1

	CN901	IC911 (5V→3V)		IC701
XRST	Pin 1	Pin 12	Pin 11	Pin 190
SPI CS	Pin 10	Pin 2	Pin 3	Pin 143
SPI CLK	Pin 3	Pin 5	Pin 6	Pin 141
SPI TX	Pin 8	Pin 9	Pin 8	Pin 147

fig. 2

	IC701	IC921 (3V→5V)		CN901
SPI RX	Pin 146	Pin 9	Pin 8	Pin 7
SPI REQ	Pin 100	Pin 5	Pin 6	Pin 9

Step 5 :Communication between DM850E and System CPU

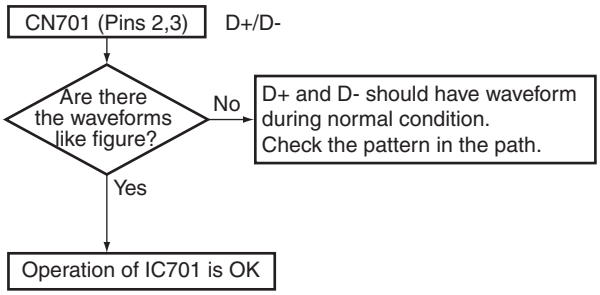
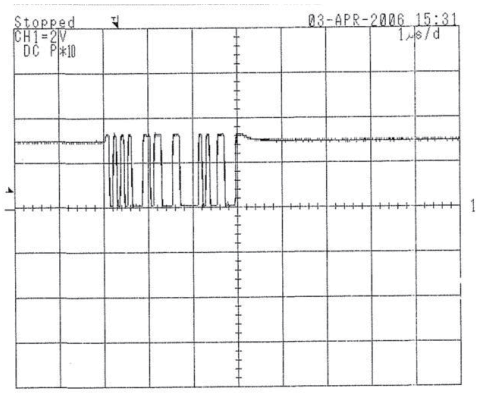
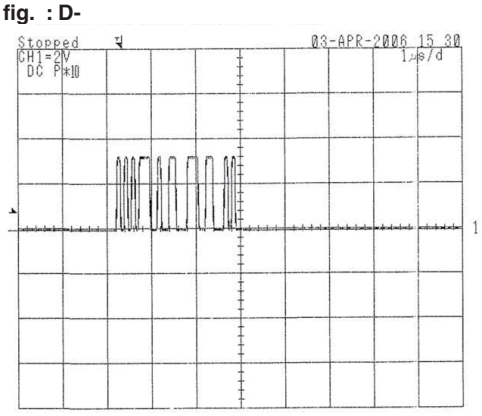


fig. : D+



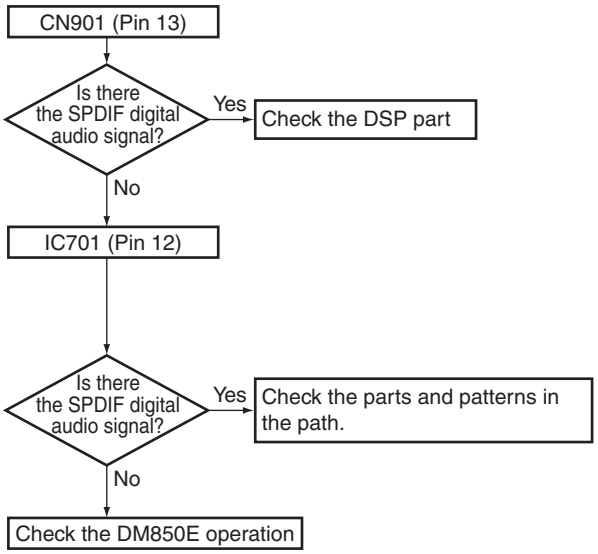
X : 1usec/div, Y : 2V/div

fig. : D-



X : 1usec/div, Y : 2V/div

Step 6 : Audio Output



<Additional information>

- An IC having data (MAC addresses, Favorite and Details etc. that users have changed) on the network (Home Media Gallery) is IC881 (AYW7185).

- How to confirm the network connection

  Set to “Home Media Gallery” entry → Select ”Set up” from home menu → Select ”Network Setup” with ↑↓ Key →
  When “Network Connection Network Found” is displayed, the network can be connected.
  When “Network Connection No Network Found” is displayed, the network cannot be connected.
  → Check the router setting or LAN connection.

5.1.4 HOW TO DIAGNOSE THE PRODUCT WITH THE POWER AMP BLOCK REMOVED

The failure in the Power Amp Block is suspected as shown in the table below.

Symptom that is highly suspected to be caused by a failure in the Power Amp Block	Possible cause
① The power cannot be turned on, and the MCACC LED is flashing.	The DC detection circuit is activated in order to prevent extension of the failure. **Note:** See "5.1.5 Failure Diagnosis of the Power Amp Block."
② The unit is shut down after "AMP ERR" is displayed on the FL display. Then the unit goes into the state described in ① above.	
③ "OVER HEAT" is displayed on the FL display.	The posistors (TH5001 and TH5301) in the Power Amp Block are open. **Note:** The resistance of the thermistor at normal temperature is about 330 ohms.
④ The unit is shut down without an error message on the FL display. Then the PHASE CONTROL LED flashes.	Power Amp overloaded, defective overload-detection circuit in the Power Amp Block, etc.

Failure diagnosis with the power on is not possible for some board assys, because the large Power Amp Block lies in the way. However, if the Power Amp Block is removed, the thermistor connected to the Power Amp Block is disconnected, which will activate the protection circuits.

To enable failure diagnosis of those board assys, after the Power Amp Block is removed in the manner described below.

[Procedures]

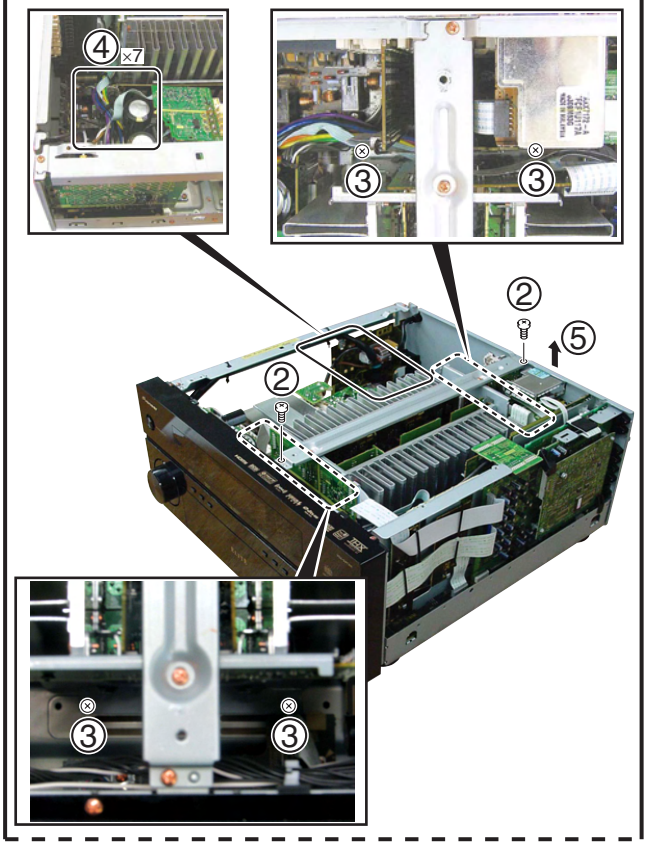
① Remove the bonnet by removing the 22 screws.

② Remove the two screws.

③ Remove the four screws.

④ Disconnect the six connectors and one jumper.

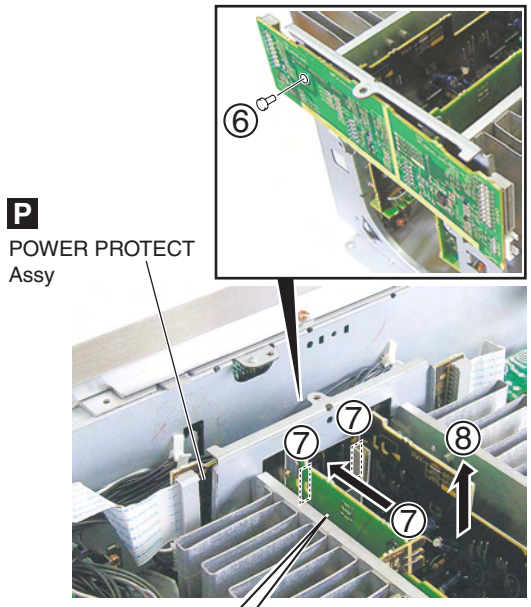
⑤ Disconnect the flexible cable.



⑥ Remove the nylon rivet.

⑦ Remove the POWER PROTECT Assy from the Power Amp Block.

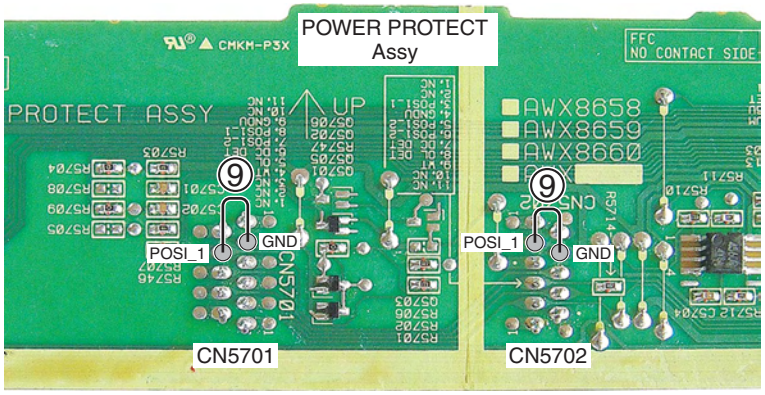
⑧ Remove the Power Amp Block.



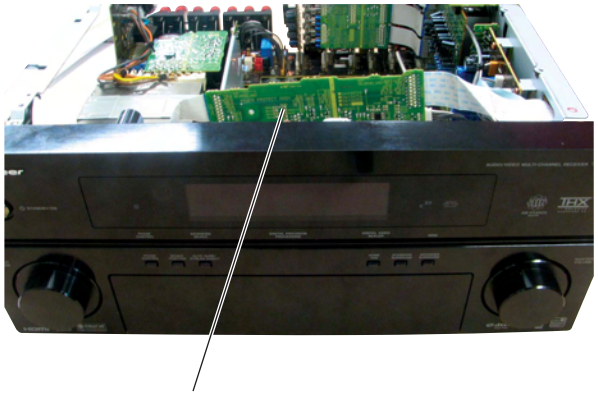
The POWER PROTECT Assy can be easily removed with no load applied to the connectors if you pull out the board by pushing on it at its center from the rear.

Note:
To prevent an electric shock hazard, after removing the Heat Sink Block, discharge the condenser of the ±VL line, by discharging CN4101 or CN4102 on the SP/PS Assy, using a discharging resistor. (It is recommended to make a resistance of 100 ohms or more in the series-parallel connection, using four or more discharging resistors of 100 ohms, 3 W.)

⑨ Short circuit between pin8 (POSI_1) and pin 9 (GND) of CN5701 of the POWER PROTECT Assy, and Pin 3 (POSI_1) and pin 4 (GND) of CN5702 .



⑩ Turn the power on. (The power is on without the protection circuits activated.)



Diagnose

⚠ Warning: Before putting the Power Amp Block back

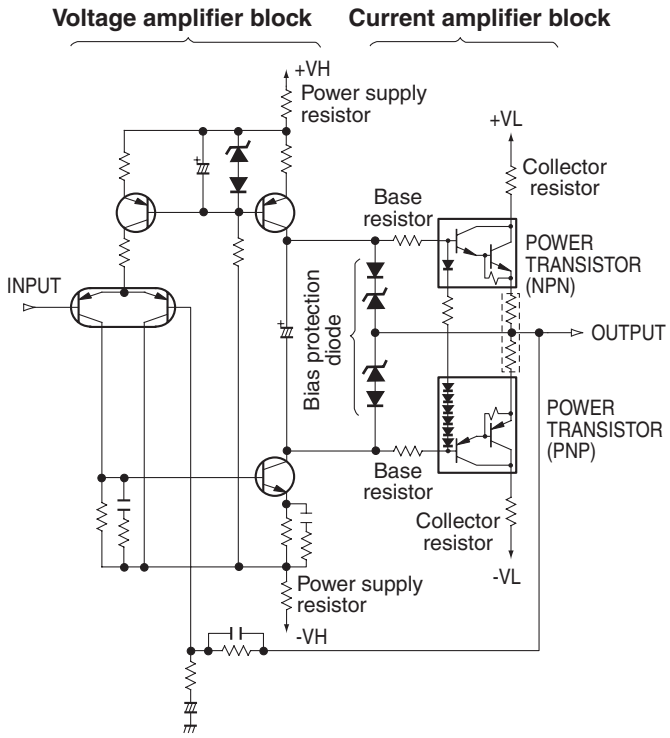
After performing a diagnosis, be sure to remove the solders at short circuit points. Also, be sure to discharge the electric charges of the VH line (charges of the electrolytic condenser) before putting the Power Amp Block back. (See "7. DISASSEMBLY / 1. Before the Power Amp Block is removed.")

Note: If you connect the connectors without discharging, some parts, such as a resistor or Fuse IC on VH line, may be damaged by the inrushing current.

5.1.5 FAILURE DIAGNOSIS OF THE POWER AMP BLOCK

If "AMP ERR" flashes on the FL display immediately after the power is turned on, then the unit is shut down, the power amplifier block is damaged, and DC voltage is output. In this case, either or both of the current and voltage amplifier block(s) is(are) damaged. Herein is described how to diagnose which block is in failure.

Most cases of damage in the power amplifier block are damage on the power transistor caused by excess power consumption, such as short-circuiting of the speaker terminals and use of low-impedance speakers that are not guaranteed. The failure diagnosis is therefore conducted on the current amplifier block first, then on the voltage amplifier block.



Notes:

- During diagnosis of the amplifier block with the power on, if you touch a high-impedance circuit (in particular, both ends of 100-ohm base resistance of the power transistor) with the probe of an oscilloscope or a tester, the circuit may be damaged by oscillation of an oscilloscope or a tester.
- While a failure diagnosis is being conducted with the power on, do NOT touch parts other than the power, input, and output blocks.
- Only the points with CP (check point) marks in the schematic diagram can be diagnosed while the power is on.

1. Damage on the current amplifier block

Check of the power transistor and collector resistance of each channel, using a tester

Tips:

In most cases where the current amplifier block is damaged by an excess power consumption of the power transistor, damage is caused by short-circuiting between the collector and emitter. The collector resistor is open because of large collector current.
In this case, the channel in failure can be identified by checking on which channel the resistance between C and E of the power transistor is 0 Ω (some hundreds of ohms or less) and the resistor of collector resistor is ∞ Ω. As a damage scar appears on the surface of the part when the collector resistor is open, you can also check it by visual inspection.

Note:

Even if the result of the measurement of resistance with the tester shows that the power transistor is not short-circuited, that power transistor may be damaged if the paired push-pull power transistor has been damaged. Therefore, it is recommended to replace both parts when either needs to be replaced.

2. Damage on the voltage amplifier block

Check of the base resistance (100 Ω) and Power supply (±VH) resistor (4.7 Ω) of each channel, using a tester

Tips:

In most cases, the voltage amplifier block is damaged by oscillation generated by a special load connection, a large-amplitude output at higher frequencies out of the audible range, or an influence of damage on the current amplifier block (power transistors). In many cases, the base resistance (100 Ω) is damaged. It is necessary to check each part of the voltage amplifier block, as damage may have been extended to other parts.
In most cases, the resistors are open/damaged, or the transistors or diodes are short-circuited/damaged.

- The resistors must not be open (the resistance must not be higher than the indicated value).
- The terminals of transistors or diodes must not be short-circuited (the resistance must not be extremely low). (If the resistance is low but you are not sure if it is extremely low, compare the value with that of the normal channel.)

If the voltage amplifier block is damaged, Power supply (±VH) resistor (4.7 Ω) may also be damaged.

3. Other damage

Check of the bias protection diodes

Tips:

If the power amplifier is damaged, the bias protection diodes may be deteriorated or open.
For a channel that has been diagnosed to be in failure, the Vf (forward descending voltage) of the four diodes must be checked to confirm that they are not deteriorated or open, using a tester, after repair of the amplifier. If these diodes are deteriorated, its distortion/frequency characteristics may be affected. If these diodes are open, the scale of damage on the power transistors may be extended if any abnormality is generated in the amplifier next time.

■ **Operating temperature of the posistor assembling to the heat sink**

	No.	Part No.	Operating temperature	Purpose	Operation
POS1L	TH5001	PTFM04BC222Q2N34B0	105 °C	Detection of abnormal temperature	OVERHEAT perform at more than 105 °C
POS1R	TH5301	PTFM04BC222Q2N34B0	105 °C	Detection of abnormal temperature	OVERHEAT perform at more than 105 °C
POS2	TH5002	–	–	–	–

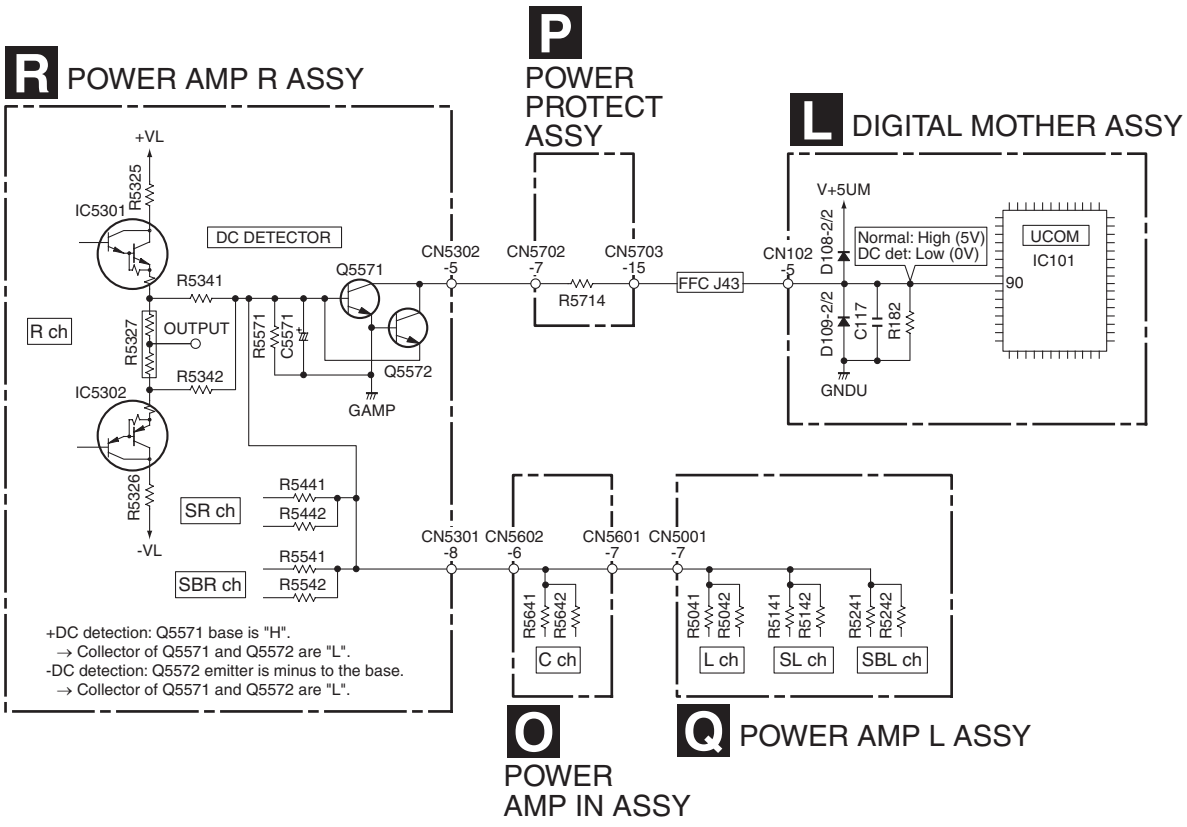
* Operating temperature is body temperature of the posistor (the metal part).

5.2 CIRCUIT DESCRIPTION
5.2.1 PROTECTION CIRCUIT SPECIFICATION

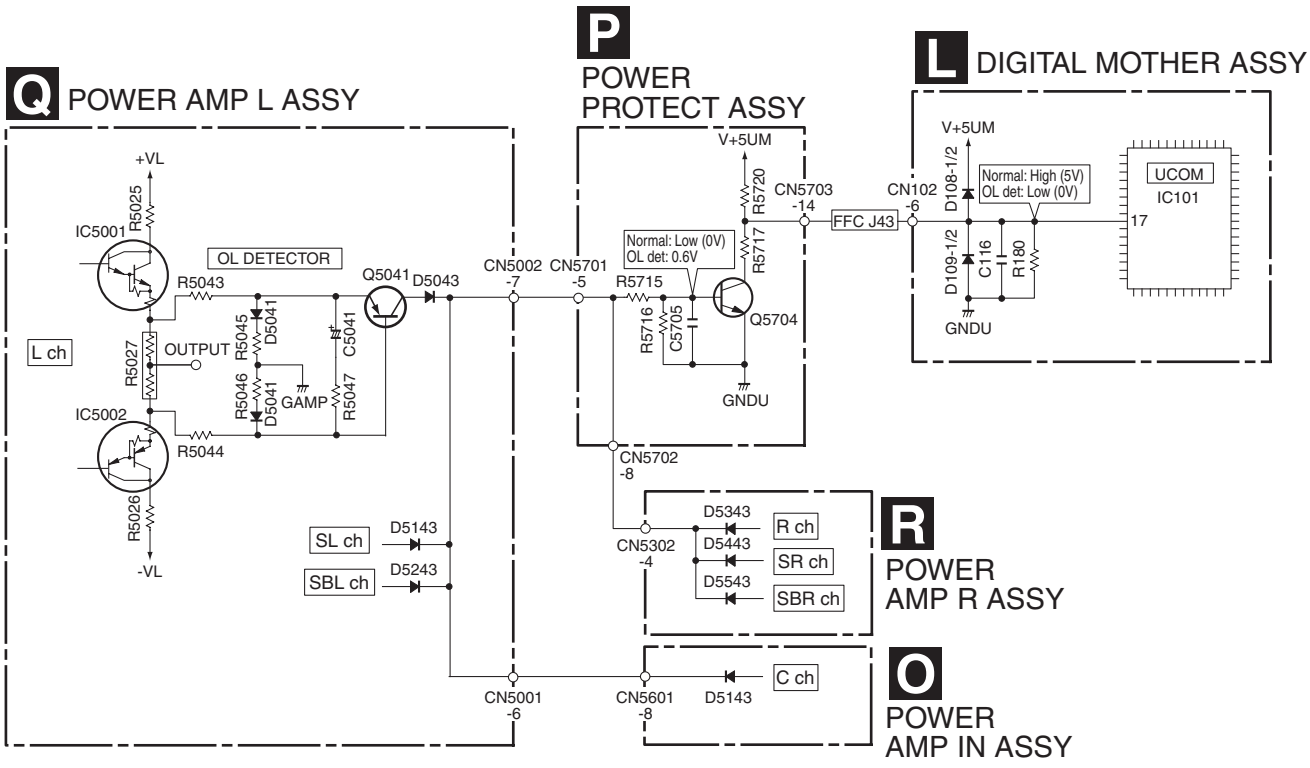
● Protection Circuit Process List

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 DC_PROTECT port becomes "L". (Pin 90 of IC101)	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, input a key never again. If the DC_DET 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 OL_DET port becomes "L" (checks by interrupt). (Pin 17 of IC101)	Turns muting on and speaker relay off, and immediately turns off the power. Then flashes PHASE CONTROL indicator.	None	
Overheat detection	Self reset type protection feature by temperature-rise of heat sink	Detects when the TEMP2 port becomes "H" . (Pin 24 of IC3301)	Turns muting on and speaker relay off, then turns off the power after 3 seconds.	Flashing "OVERHEAT" for 3 seconds.	If the TEMP2 port becomes "L" within 3 seconds, the unit returns to normal condition automatically.
12V trigger failure detection	To detect the shortcircuit of 12V trigger output (load more than 50mA) (for protection of the amplifier)	Detects when the 12VDET port becomes "H" . (Pin 69 of IC101)	Turns 12V trigger output to off.	Flashing "12V TRG ERR" for 3 seconds.	Continue showing warning. Release the FL indication by switching the INPUT SEL or the turns the power off.

● DC Detection Circuit



● OL (Over Load) Detection Circuit



5.2.2 iPod INFORMATION

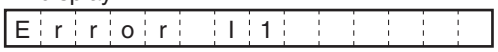
■ iPod players supported by this unit

This unit supports iPod, iPod mini, and iPod Photo players of the third or subsequent generation that have adopted the iPod Dock connector.
The iPod cable is available as parts (Part No.: ADE7119).

■ Error Messages

MONITOR OUT screen

FL display

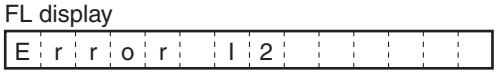


[Cause]
There is a problem with the signal path from the iPod to the receiver.

[Measures]
Switch off the receiver and reconnect the iPod to the receiver.
If this doesn't seem to work, try resetting your iPod.

MONITOR OUT screen

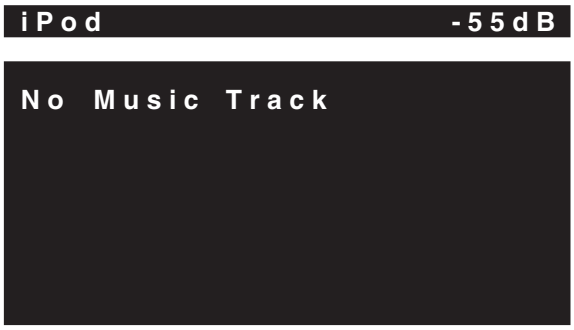
FL display



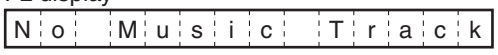
[Cause]
The software version being used with the iPod needs to be updated.

[Measures]
Update the software being used with the iPod (software versions prior to iPod update 2004-10-20 are not supported).

MONITOR OUT screen



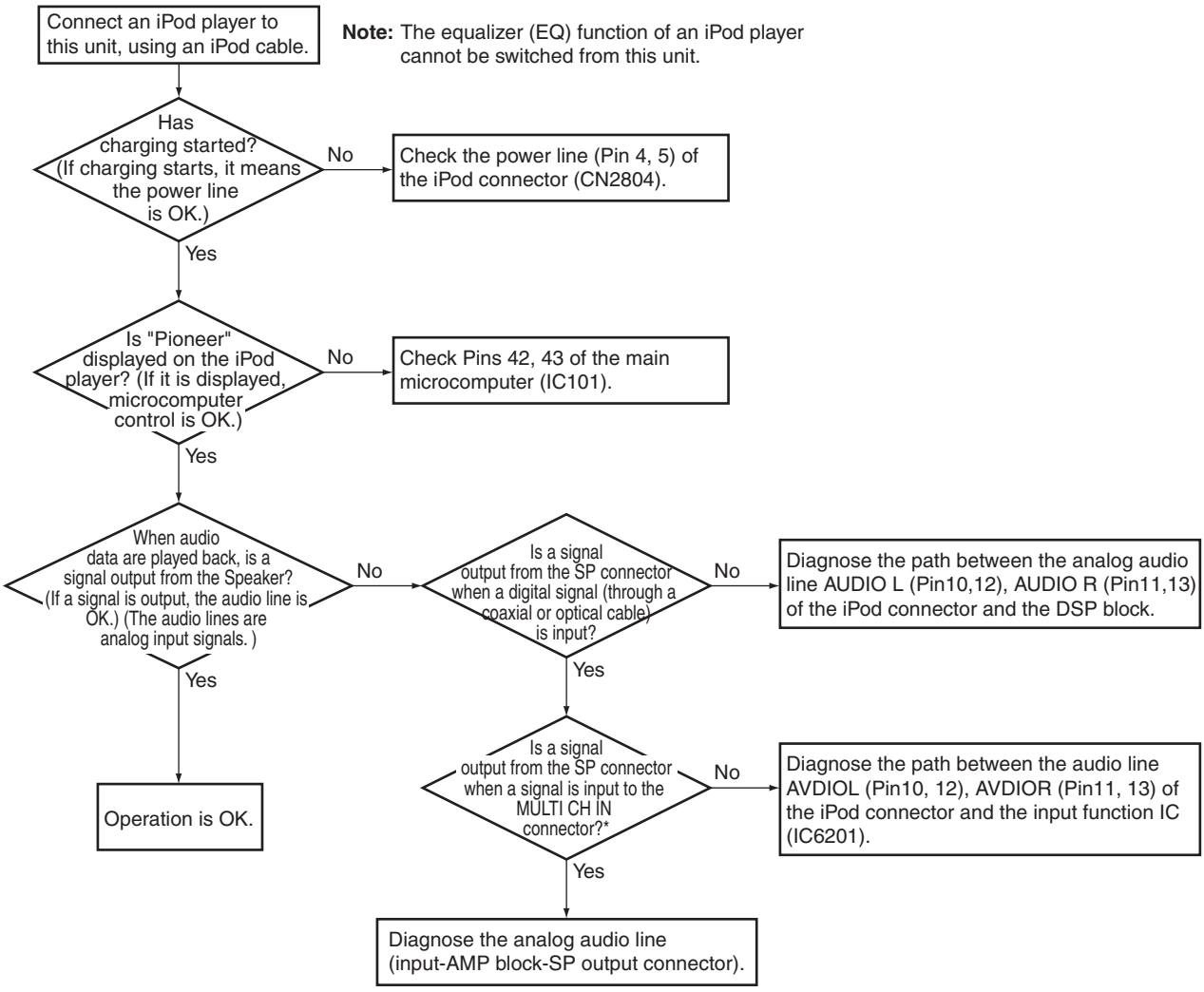
FL display



[Cause]
There are no playable songs currently stored in the iPod.

[Measures]
Input some music files compatible with iPod playback.

■ Operation check of iPod functions



* The "DIGITAL PRECISION PROCESSING" indicator on the front panel light off when switching "AUTO SURR/STREAM DIRECT" button to "PURE DIRECT" or listening through the multichannel analogue inputs.

5.2.3 XM RADIO INFORMATION

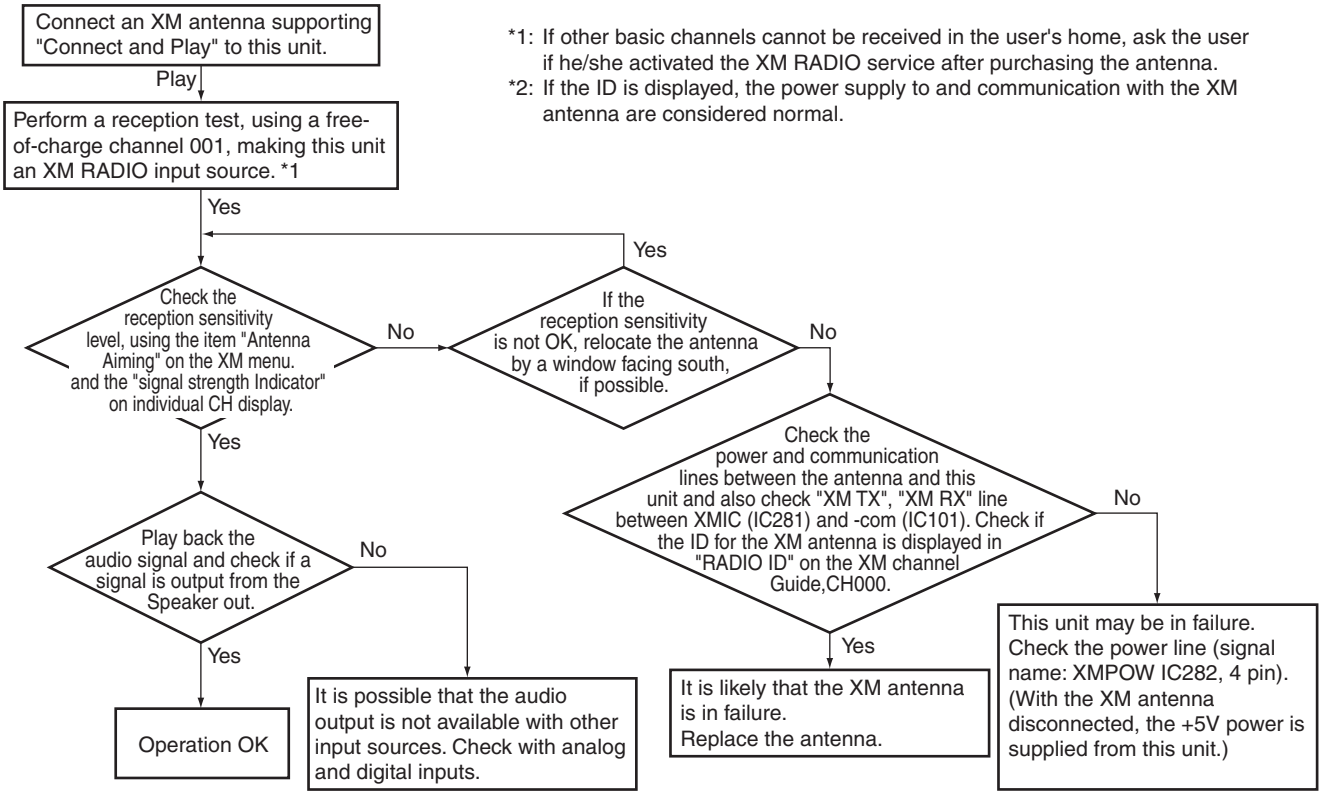
■ Products used for receiving XM Satellite Radio service

A commercially available "Connect and Play Antenna" can be used with this unit. To activate the XM RADIO service, it is necessary to receive a broadcast using your "Connect and Play Antenna."

■ About XM messages

Symptom	Cause	Measures
Check Antenna	An XM antenna is not connected.	Check whether the XM antenna cable is securely connected.
XM Power Error	A short-circuit is occurring in the XM antenna or the surrounding antenna cable.	Make sure that there is nothing unusual with the XM antenna or XM antenna cable. Turn the power off then back on.
Updating	The radio is being updated with the latest encryption code.	Wait until the encryption code is updated. Channels 00 and 01 should function normally.
No Signal	The XM signal is too weak at the current location.	
Loading	The unit is acquiring audio or program information.	Wait until the unit has received the information.
Off Air	The channel currently selected has stopped broadcasting.	Select another channel.
CH - - -	The user has selected a channel number that does not exist or is not subscribed to.	The receiver automatically switches to Channel 001 or a last-selected channel.
- - - - - - - -	There is no artist name/feature (song/program title), or channel category is associated with the channel.	No action needed.

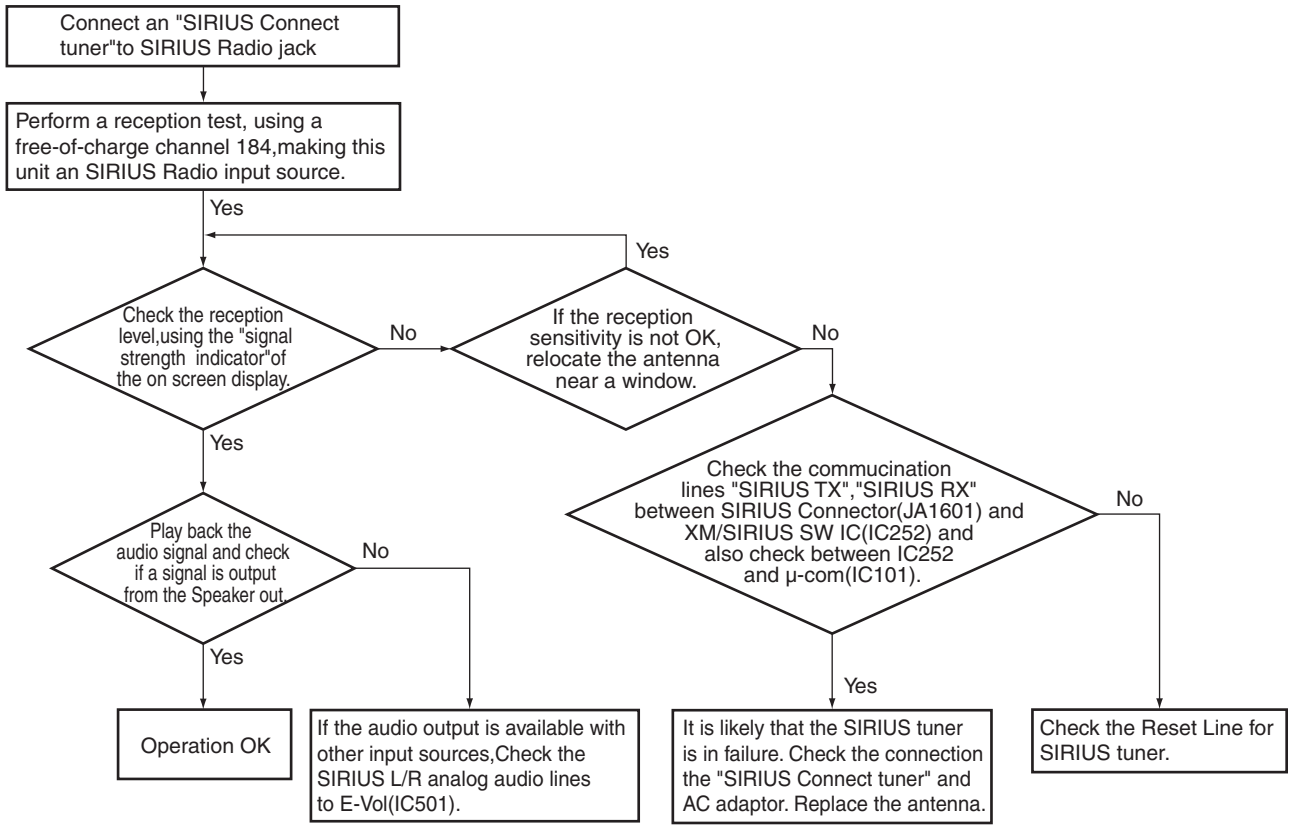
■ Operation check of XM RADIO function



*1: If other basic channels cannot be received in the user's home, ask the user if he/she activated the XM RADIO service after purchasing the antenna.
*2: If the ID is displayed, the power supply to and communication with the XM antenna are considered normal.

5.2.4 SIRIUS BLOCK TROUBLESHOOTING

Step 1 : Connectors



SIRIUS radio messages

Symptom	Cause	Action
Antenna Error	Antenna is not properly connected.	Check that the antenna cable is attached securely.
Check Sirius Tuner	SIRIUS Connect tuner is not properly connected.	Check that the 8 pin mini DIN cable and AC Adapter are attached securely.
Acquiring Signal	The SIRIUS signal is too weak at the current location.	n/a
Subscription Updating	Unit is updating subscription.	Wait until the encryption code has been updated.
Updating Channels	Unit is updating channels.	Wait until the encryption code has been updated.
Invalid Channel	Selected channel is not available/does not exist.	Select another channel.

6. SERVICE MODE
6.1 SERVICE MODE

The Service mode has three functional blocks (VERSION block, PROTECT block and DOWNLOAD block).

How to enter the Service mode

1. Turn off MULTI-ZONE. Lower MASTER VOLUME to the minimum (---dB) and turn off the power.
2. After the power-off, press and hold down both the "ENTER" key and the "MULTI-ZONE ON/OFF" key for approximately five seconds.

How to exit the Service mode

Turning off the power or pressing the RETURN key returns to the normal mode.

Mode transition methods for each of the VERSION block, PROTECT block and DOWNLOAD block.

*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display
VERSION block 1/4 Display MAIN / EVENT microcomputer. [→] [←]	M1.000 E1.000
PROTECT block 1/8 Display number of times DC is detected. [→] [←]	DC : 000
DOWNLOAD block 1/6 Display MAIN computer DOWNLOAD. [→] [←]	MAIN DL[START]
Return to VERSION block 1/4.	

VERSION block

This block displays version information of various microcomputers and DSP firmware.
*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display	Explanation on displayed versions
Test mode ON		
VERSION block 1/4 MAIN/EVENT microcomputer	M1.000 E1.000	M * . *** : MAIN microcomputer E * . *** : EVENT microcomputer
[↓] [↑]		
VERSION block 2/4 DISPLAY microcomputer	DISP 1.000	DISP * . *** : DISPLAY microcomputer
[↓] [↑]		
VERSION block 3/4 DSP/HDMI microcomputer	D1.000 H1.000	D * . *** : DSP microcomputer H * . *** : HDMI microcomputer
[↓] [↑]		
VERSION block 4/4 1stDSP/2ndDSP firmware	f1.000 s1.000	f * . *** : 1st DSP firmware s* . *** : 2nd DSP firmware
[↓] [↑]		
To PROTECT block		

PROTECT block

This block displays number of times protection processing is detected.
*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display
PROTECT block 1/8 Display number of times DC is detected. [↓] [↑]	DC : 000
PROTECT block 2/8 Display number of times OVERLOAD is detected. [↓] [↑]	OVER: 010
PROTECT block 3/8 Display number of times COMBINATION is detected. (Detects DC and OVERLOAD simultaneously) [↓] [↑]	CON : 002
PROTECT block 4/8 Displays number of times FAN error is detected. [↓] [↑]	FAN : 000 The number is not counted in this North America model, because these models have no FAN.
PROTECT block 5/8 Display number of times abnormal temperature is detected. [↓] [↑]	TEMP: 255
PROTECT block 6/8 Resetting the number of times error is detected [↓] [↑]	RESET ◀ HOLD ▶
PROTECT block 7/8 Display accumulated time & RESET. [↓] [↑]	12345h20m◀HLD▶
PROTECT block 8/8 The Timer of Exception "Set Stream Path" command on CEC. [↓] [↑]	EX.SSP◀1500ms▶
To DOWNLOAD block	

Resetting the number of times error is detected

Key operation	FL display
[←][→]	RESET ◀CLEAR?▶
[ENTER]	RESET [RESET]
↓ To normal mode	

Resetting the accumulated time

Key operation	FL display
[←][→]	12345h20m◀CL?▶
[ENTER]	0h 0m◀RST▶
↓ To normal mode	

Setting of the Timer of Exception "Set Stream Path" command on CEC.

Key operation	FL display
[←][→]	EX.SSP◀ 600ms▶
↓ To normal mode	

DOWNLOAD block

This block enters the rewriting mode of various microcomputers and DSP firmware.

Key operation	FL display
DOWNLOAD block 1/6 MAIN computer DOWNLOAD [↓] [↑]	MAIN DL[START]
DOWNLOAD block 2/6 EVENT computer DOWNLOAD [↓] [↑]	EVNT DL[START]
DOWNLOAD block 3/6 DSP computer DOWNLOAD [↓] [↑]	DSPM DL[START]
DOWNLOAD block 4/6 HDMI computer DOWNLOAD [↓] [↑]	HDMI DL[START]
DOWNLOAD block 5/6 1stDSP FIRM DOWNLOAD [↓] [↑]	DSP1 DL[START]
DOWNLOAD block 6/6 2ndDSP FIRM DOWNLOAD [↓] [↑]	DSP2 DL[START]
To VERSION block	

■ Error indications when an abnormality in the amplifier system is detected

[Purpose]

An error message is displayed when an abnormality in the amplifier system is detected.

[Error Messages]

FL Display	Status	Duration (sec.)
AMP ERROR	When AMP DC is detected	Flashes 3 times.
AMP OVERHEAT	When a thermal shutdown (abnormal temperature), etc. is detected	Flashes 3 times.
12V TRG ERR	When the 12-V trigger circuit is short-circuited	Flashes
DSP NG	When the NG communication with the DSP u-com is detected.	Flashes
HMDI NG	When the NG communication with the HDMI u-com is detected.	Flashes
HDCP ERROR	When the HDCP ERR is detected.	Flashes 5 seconds.
NOT SUPPORT	When the NOT SUPPORT of HDCP is detected.	Flashes 5 seconds.

[Description]

AMP ERROR : 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 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" below.

AMP OVERHEAT : The temperature of the amplifier is abnormally high.

12V TRG ERR : The 12-V trigger output is short-circuited.

After a failure is detected, the shutdown process starts, then the power will be off. The power can be turned on again in Normal mode.

DSP NG : There is no communication response from the DSP u-com.

HDMI NG : There is no communication response from the HDMI u-com.

HDCP ERR : The monitor is non-HDCP type or the monitor is standby state.

NOT SUPPORT : The output resolution is not correspond to the monitor at analog. →HDMI(scaler exist)

[How to enter release mode]

Press and hold "↓ (DOWN)" and "MULTI-ZONE ON/OFF" keys on the front panel simultaneously for 2 seconds in standby mode.

7. DISASSEMBLY

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

1. Before the Power Amp Block is removed

Before the Power Amp Block is removed, discharge C4209 and C4210 on the TRANS 2-1 Assy, as indicated below.
If you don't, the IC protectors (IC4261 and IC4262) on the VH TR Assy may be open, and DC voltage may be generated at the power amplifier output, which will result in "AMP ERR."

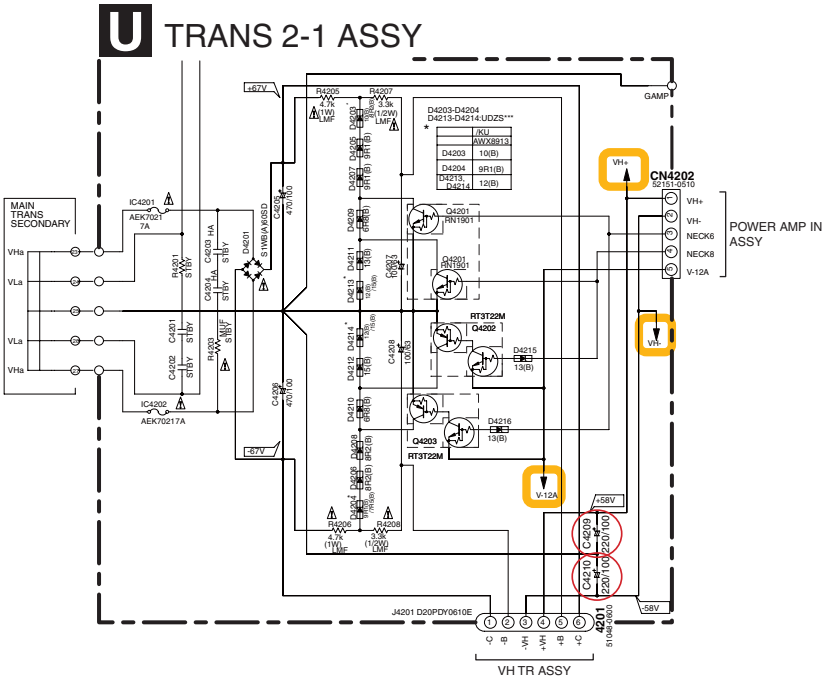
[Procedure]

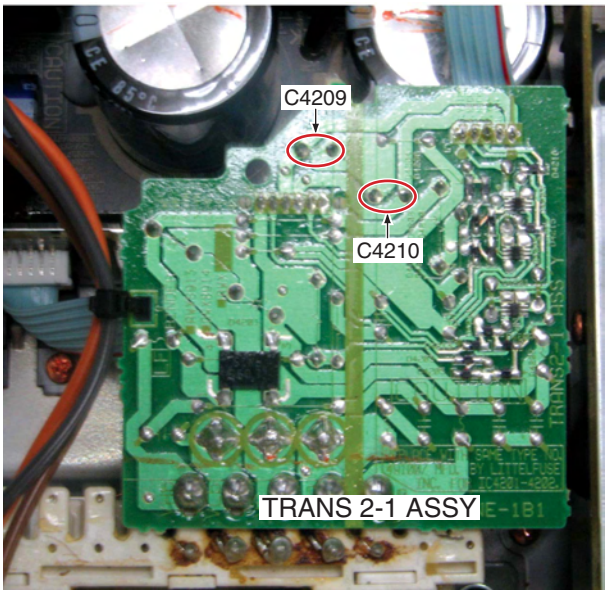
① Unplug the AC code.

② Discharge C4209 and C4210 on the TRANS 2-1 Assy.
Note: For discharging, use a load of 100Ω, 3W or more, to protect the IC protectors. Do NOT discharge instantly by short-circuiting.

③ Check that the voltage between the electrodes of each C4209 and C4210 is 1V or less.

④ Mount the Power Amp Block.

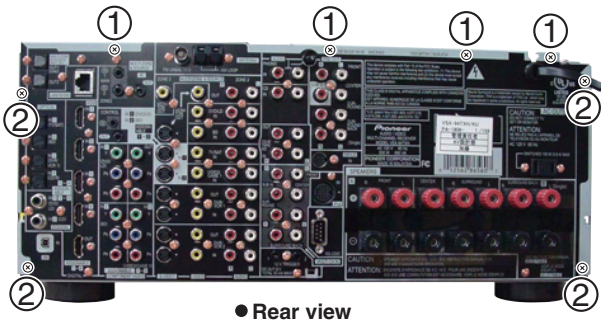




2. Disassembly

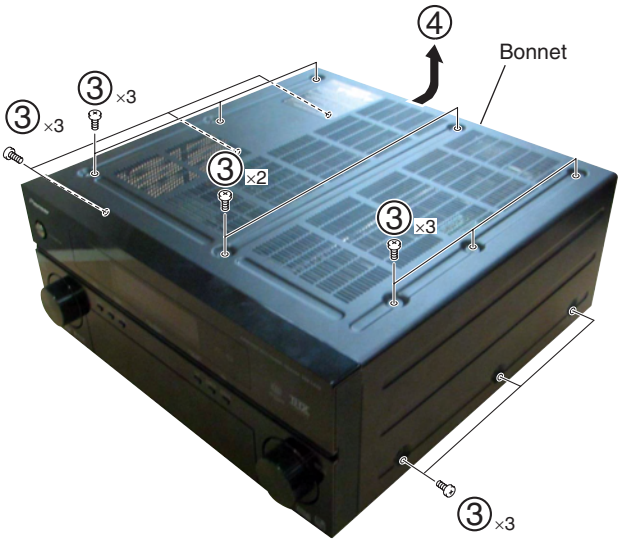
1 Bonnet

① Remove the four screws.
② Remove the four screws.



● Rear view

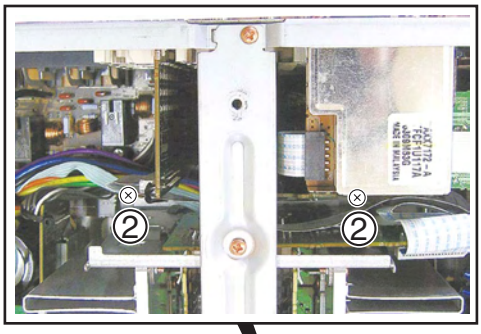
③ Remove the fourteen screws.
④ Remove the bonnet.

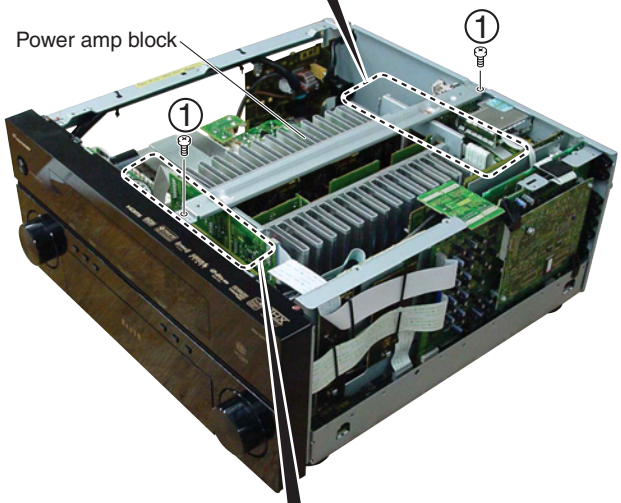


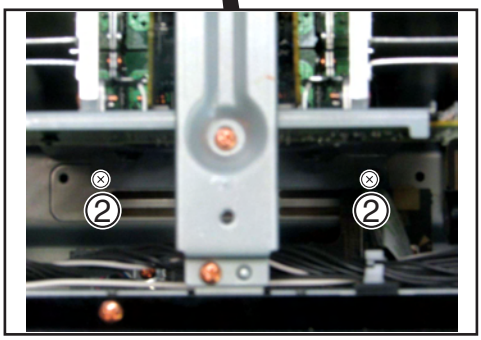
2 Power Amp Block

Before removing the power AMP Block, discharge C4209 and C4210 on TRANS 2-1 Assy.
Refer to "1. Before the Power AMP Block is removed".

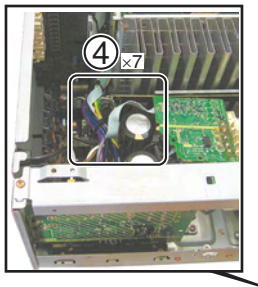
① Remove the two screws.
② Remove the four screws.

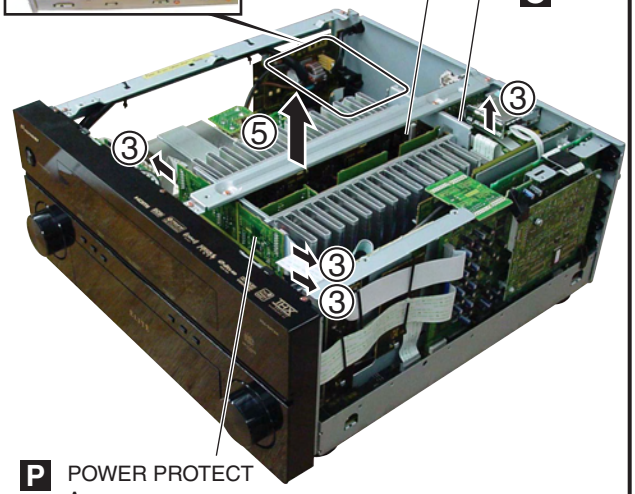


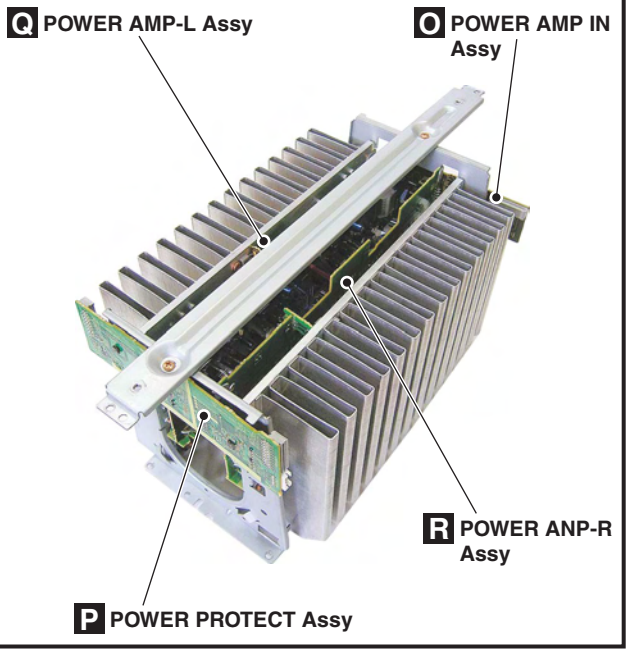




③ Disconnect the three flexible cables and one connector.
④ Disconnect the six connectors and one jumper.
⑤ Remove the power amp block.



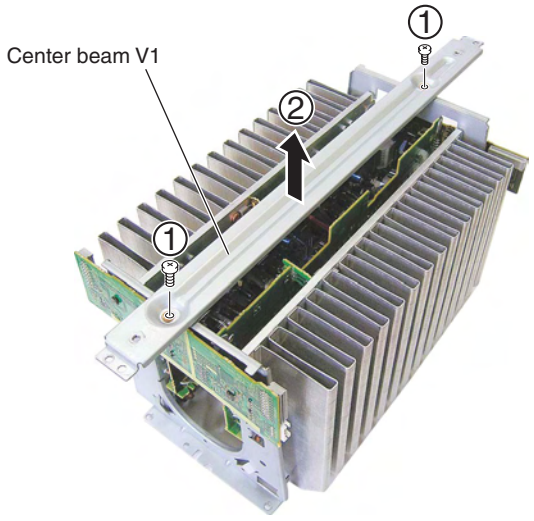




3 Replacing the Power Transistor

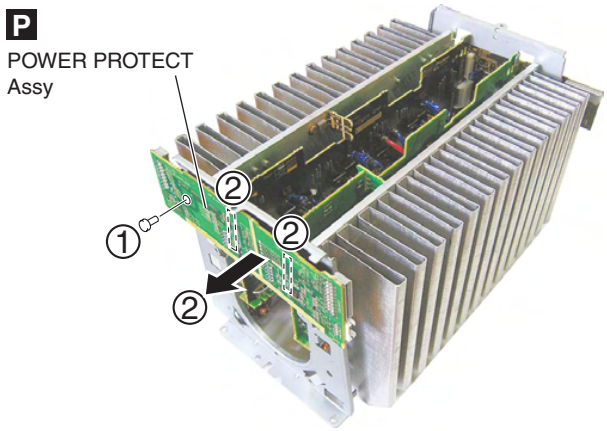
• Center Beam V1

① Remove the two screws.
② Remove the center beam V1.



• POWER PROTECT Assy

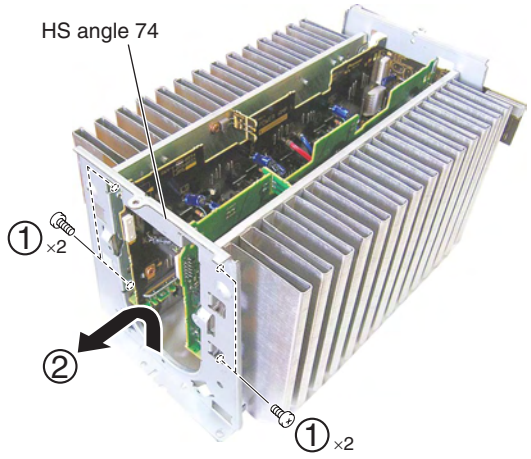
① Remove the one nylon rivet.
② Remove the POWER PROTECT Assy by removing the two connectors.



• **HS Angle 74**

① Remove the four screws.

② Remove the HS angle 74.

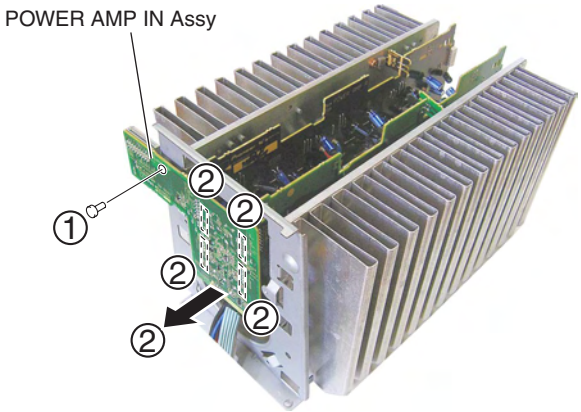


• **POWER AMP IN Assy**

① Remove the one nylon rivet.

② Remove the POWER AMP IN Assy by removing the four connectors.

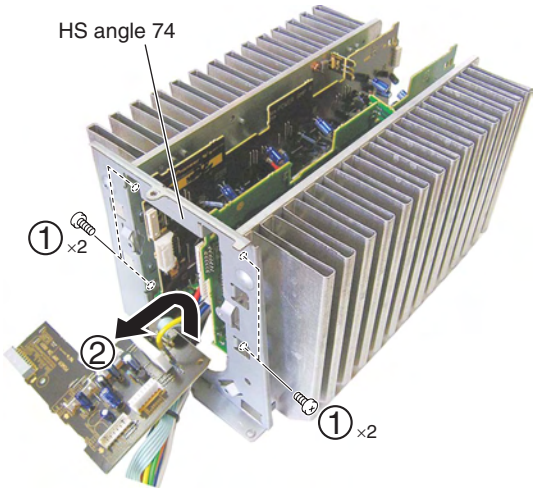
O



• **HS Angle 74**

① Remove the four screws.

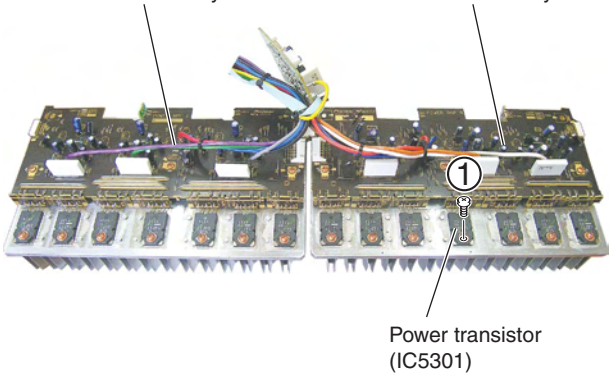
② Remove the HS angle 74.



• **Replacing the Power Transistor**

① Remove the screw.

Q R

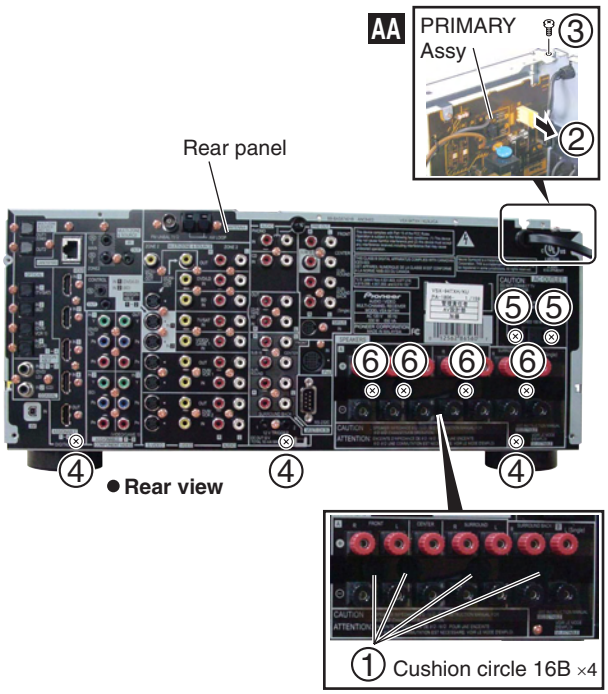


Replace

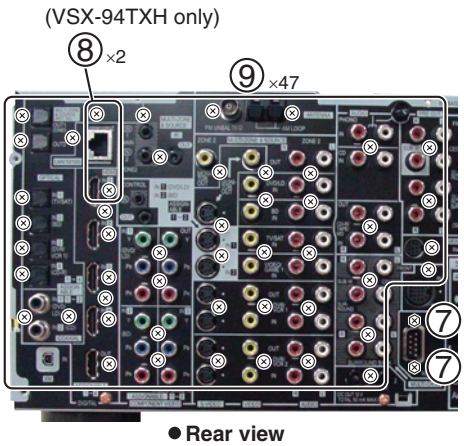
4 Replacing the HDMI & DLNA ASSY

• Rear Panel

① Remove the four cushion circle 16Bs.
② Disconnect the one connector.
③ Remove the screw.
④ Remove the three screws.
⑤ Remove the two screws.
⑥ Remove the four screws.

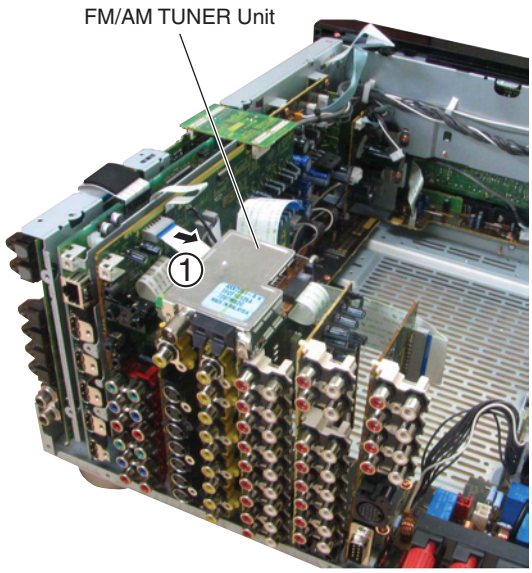


⑦ Remove the two screws.
⑧ Remove the two screws. (VSX-94TXH only)
⑨ Remove the 47 screws.
⑩ Remove the rear panel.



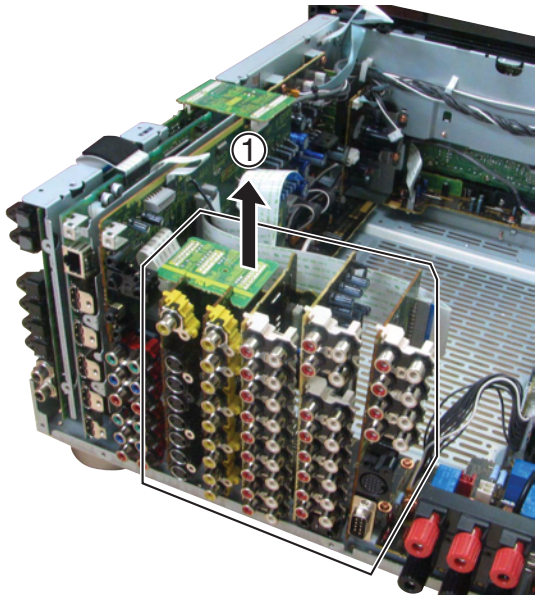
• FM/AM TUNER Unit

① Remove the FM/AM TUNER Unit by removing the one flexible cable.



• PCB Assys

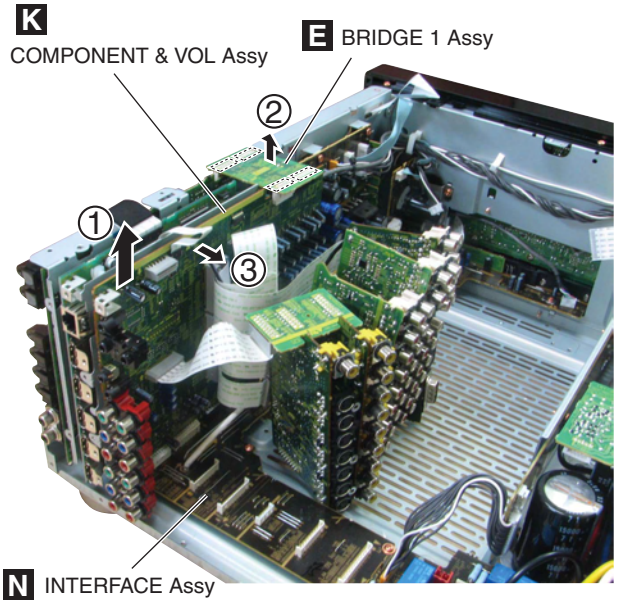
① Remove the PREOUT & CONTROL, AUDIO & MULTI CH IN, V-AUDIO, COMPOSITE V, S VIDEO, BRIDGE 2 and BRIDGE 3 Assys from the INTERFACE Assy.



5 Replacing the INTERFACE ASSY

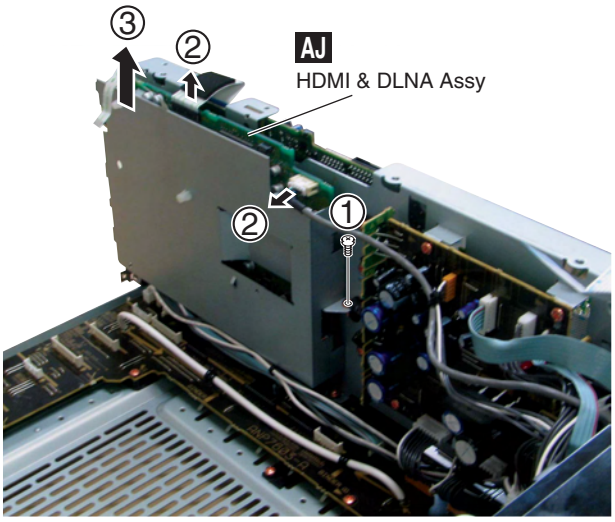
• COMPONENT & VOL Assy

① Remove the COMPONENT & VOL Assy from the INTERFACE Assy.
② Remove the BRIDGE 1 Assy by removing the four connectors.
③ Disconnect the flexible cable.



• HDMI & DLNA Assy

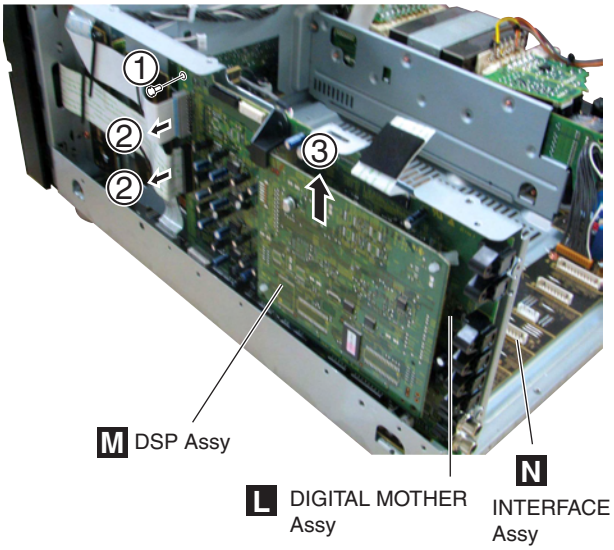
① Remove the screw.
② Disconnect the flexible cables and connector.
③ Remove the HDMI & DLNA Assy from the INTERFACE Assy.



Replace

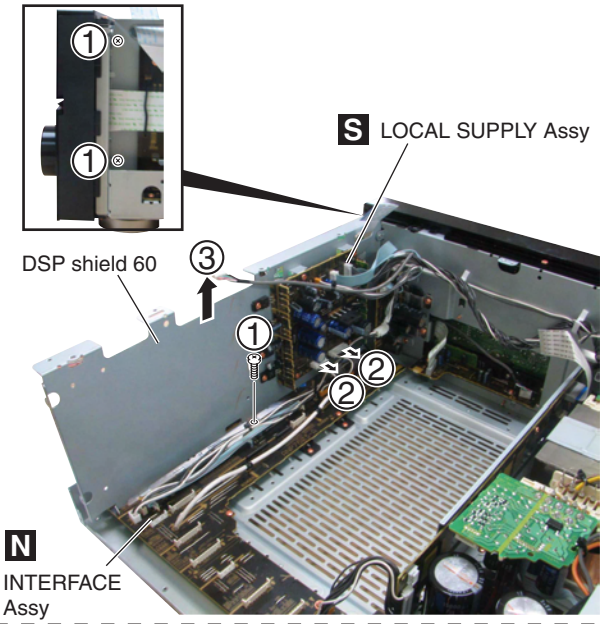
• DIGITAL MOTHER Assy

① Remove the nyron rivet.
② Disconnect the two flexible cables.
③ Remove the DIGITAL MOTHER Assy with DSP Assy from the INTERFACE Assy.



• DSP Shield 60

① Remove the three screws.
② Disconnect the two connectors.
③ Remove the DSP shield 60.



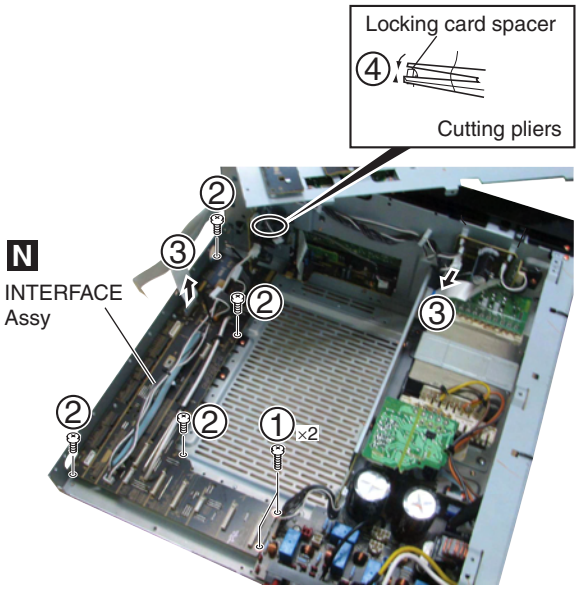
• **INTERFACE Assy**

① Remove the two screws.

② Remove the four screws.

③ Disconnect the flexible cable and connector.

④ Release the locking card spacer.



④ Remove the INTERFACE Assy.

Replace

8. EACH SETTING AND ADJUSTMENT

8.1 ADJUSTMENT

• There is no information to be shown in this chapter.

8.2 HOW TO UPDATE THE DSP FLASH ROM BY PLAYING BACK A CD

[Purpose]

By referring to this section, rewrite the DSP1 and DSP2 Flash ROM when required. Rewriting is instructed through service information, etc. By playing back a CD-R on which a DSP program is recorded, using a normal CD player, rewriting is possible.

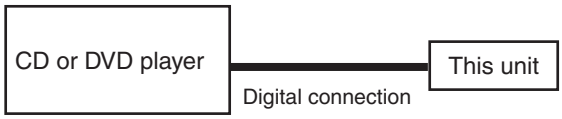
[Tools to be used]

Please use DVD player based on MTK system (DV-270, 370, 373, 575K, 280, 380, 383, etc.) ,Mitsubishi system (DV-59AVi, 868AVi, S969AVi, 668AVi, etc.) or Fujitsu system (DV-343, 444, 545, etc.) DO NOT use DVD player based on ST system (DV-353, 454, 250, 400, 555K, 260, 363, 464, 466, 563, etc.) The factory confirmed that DVD players based on ST system cannot send the correct data to the VSX unit using the update disc.
You can check the base system of our DVD players on the firmware version list at PSN web (Niis)

• Coaxial cable or Optical cable
• Update disc(CD-R disc)
• Headphone

[Connections]

Connect this unit and a player, as shown in the figure below.



[Preparations]

Burn the DSP flash ROM firmware (.wav file) to a CD-R disc using commercially available burning software.
It is necessary to select the writing format to "For music player", not "For PC data".
Note:
Depending on a burning software, data on a CD-R may not be worked for updating the DSP flash ROM.
If the HDMI indicator does not flash when playing back a update disc, the disc is not able to use for updating.
Burn the DSP flash ROM firmware to a CD-R disc, using other burning software.

[Note]

• Do NOT disconnect the AC cords of this unit nor the CD/DVD player while rewriting is in progress.

• The "OK" indication displayed after updating means the checksum on the flash ROM is OK. If the "OK" indication is not displayed, updating has not been completed.

Note that confirmation with audio check or version check is insufficient for checking if updating has been completed.
If you set the unit to STANDBY OFF without confirming of "OK" indication on the FL display, be sure to perform the updating procedures again.

[Procedures]

1. Check the versions of the DSP and microcomputer.
   Check the versions by referring to "Version indication" in "6.1 SERVICE MODE (P.74)."

2. Connect a CD or DVD player.
   (1) Connect the CD or DVD player to be used for updating to any digital input connector of this unit.
   (2) With the INPUT SELECTOR, select the input being used.

3. Check if the digital signal is locked (received).
   (1) Play back a stream for updating with the player.
   (2) Set the receiver to normal setting, "Signal Select" to Auto, then check on the Signal Select indicator whether the input is set to Auto and Digital.

[Procedures]

4. Start up this unit in writing mode.
   (1) Relocate the CD playback starting point to the beginning (time: 0:00) of the track No and pause playback.
   (2) Set the volume of the receiver to - ∞ dB and set the receiver to STANDBY OFF.
   (3) Press the ENTER key and the ON/OFF key of Multi-Zone & Source/REC SEL simultaneously for 3 seconds.
   (4) Press "↑" key until it enters the predetermined mode.
   When DSP1 is downloaded:
   Display: DSP1 DL [START] → Press the Enter key. → Display: DSP1 DL [GO ON]
   When DSP2 is downloaded:
   Display: DSP2 DL [START] → Press the Enter key. → Display: DSP2 DL [GO ON]

5. Play back the track on CD disc.
   (1) Release Pause mode of the player and play back the track where the DSP program stream signal to be burned is stored.
   (2) After 5-10 seconds, the HDMI indicator starts flashing. Be sure to check that it is flashing.
   (3) Flashing indicates that a correct stream is being received and that updating is in progress.

   Note: Do NOT turn off the unit while the HDMI indicator is flashing. If the unit is turned off, be sure to go back to Step 4. (As the Flash ROM goes into unusual status if the power is off during rewriting, the unit may not start properly.) Even in such a case, you can restore the unit by performing Steps 4 to 7.

6. Wait until rewriting is completed.
   (1) Basically, wait until "OK" is displayed on the FL display. It takes about 2 minutes for updating DSP1 and about 15 seconds for updating DSP2.
   (2) After confirming that "OK" is displayed, stop or pause the player then after 5 seconds set the player to STANDBY OFF.

7. Check the version of the program after updating.
   (1) Check the version by simultaneously pressing and holding the ENTER key and Multi-Zone & Source/REC SEL ON/OFF keys.
   (2) Press "↓" key to check the predetermined version.
   DSP1 version: f…….
   DSP2 version: s…….
   (3) For confirmation, check basic operations.

■ Troubleshooting of DSP FLASH ROM UPDATE

Symptoms	Items to be checked
The HDMI indicator does not start flashing, and 10 seconds or more has elapsed after a updating stream is input.	Is DSP writing mode entered? (Simultaneously press and hold the ENTER and VIDEO Multi-Zone & Source/REC SEL ON/OFF keys.)
	Is DIR locked? → You can check this on the Signal Select indicator if the input is set to Auto and Digital. If DIR is not locked, check the input function and digital connections between the player and this unit.
	Is the stream (Track No., etc.) being played back correct?
	Are compressed audio signals, such as WMA, being input when or after writing mode is entered ? → As soon as the compressed audio signals are input, writing mode is exited. It is recommended that playback be paused at the beginning of the track of a updating stream then writing mode is entered by simultaneous pressing of the keys. Release Pause mode after entering of writing mode is confirmed.
Writing mode is not entered upon simultaneous pressing of the ENTER and Multi-Zone & Source/REC SEL ON/OFF keys.	Is the volume control of the receiver set to -∞ dB? If not, set it to -∞ dB (- - -).
	Reset the receiver then enter writing mode. **Note:** All the user data stored in the receiver are cleared when the receiver is reset.
"OK" is not displayed.	Is the track played back from the beginning to the end? → With the receiver in writing mode, be sure to play back the stream track twice.
	If an error is generated because any scratches on the disc, "OK" is not displayed. → In such a case, play back the same stream stored on another track as backup.

8.3 HOW TO UPDATE THE FLASH ROMS FOR VARIOUS MICROCOMPUTERS

■ HDMI, MAIN, DSP and EVENT microcomputer

[Purpose]

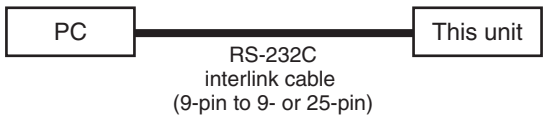
Refer to this section when updating of a Flash ROM is required by the service information, etc.

[Tools to be used]

- PC with a serial port
- RS-232C cable (9-pin to 9- or 25-pin, interlink)
- Firmware ("mot" extension)
- Program for updating (ufu.exe: ver. 1.08)

[Connections] (MAIN microcomputer)
(DSP microcomputer)
(EVENT microcomputer)
(HDMI microcomputer)

Connect as indicated in the figure right:



[Note]

Do NOT disconnect the AC power cords of this unit nor the PC.

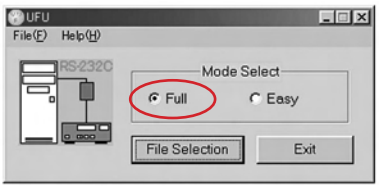
[Procedures]

1. Turn off the power to this unit by setting the main volume level to "---dB" and Multi-Zone to "OFF".
2. Connect the 232C cross cable and the PC, as indicated in "Connections".
3. Simultaneously press and hold the ENTER and MULTI-ZONE ON/OFF keys for about 5 seconds.
4. Turn the power ON at CONFIDENTIAL PANEL mode.
5. (HDMI microcomputer)
   Press ↓ key and select “HDMI DL [START]” display.
   Press ENTER key and set to “HDMI DL [GO ON]”.

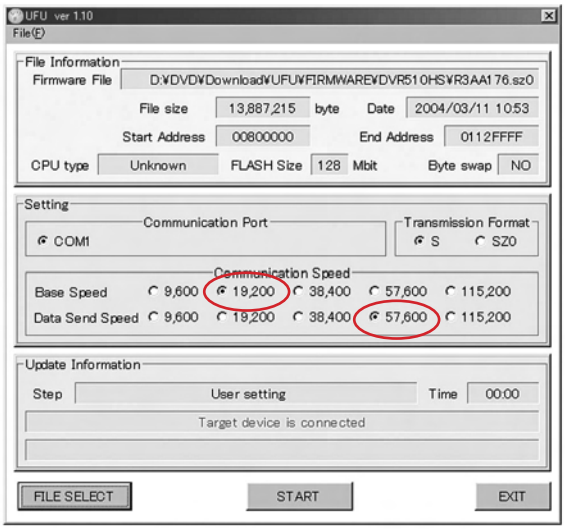
   (MAIN microcomputer)
   Press ↓ key and select “MAIN DL [START]” display.
   Press ENTER key and set to “MAIN DL [GO ON]”.

   (DSP microcomputer)
   Press ↓ key and select “DSPM DL [START]” display.
   Press ENTER key and set to “DSPM DL [GO ON]”.

   (EVENT microcomputer)
   Press ↓ key and select “EVNT DL [START]” display.
   Press ENTER key and set to “EVNT DL [GO ON]”.
6. Double-click on "ufu.exe".
7. Check that "Full" is selected in MODE SELECT.
8. Select the firm ware file with "mot" extension.
9. Select the communication speed.
   - Basic speed: 19200
   - Data transfer speed: 57600
10. Click on "START" button.
11. "Completed" is displayed in the"ufu.exe" window.
12. Disconnect then reconnect the AC power cord of the unit. If the unit is not reset, retry from Step 2.
13. Check the version.
    Following the procedures described in "Version indication" in "6.1 SERVICE MODE (P.74)," check that the version has been changed to a new one.



Check that "Full" is selected in MODE SELECT.

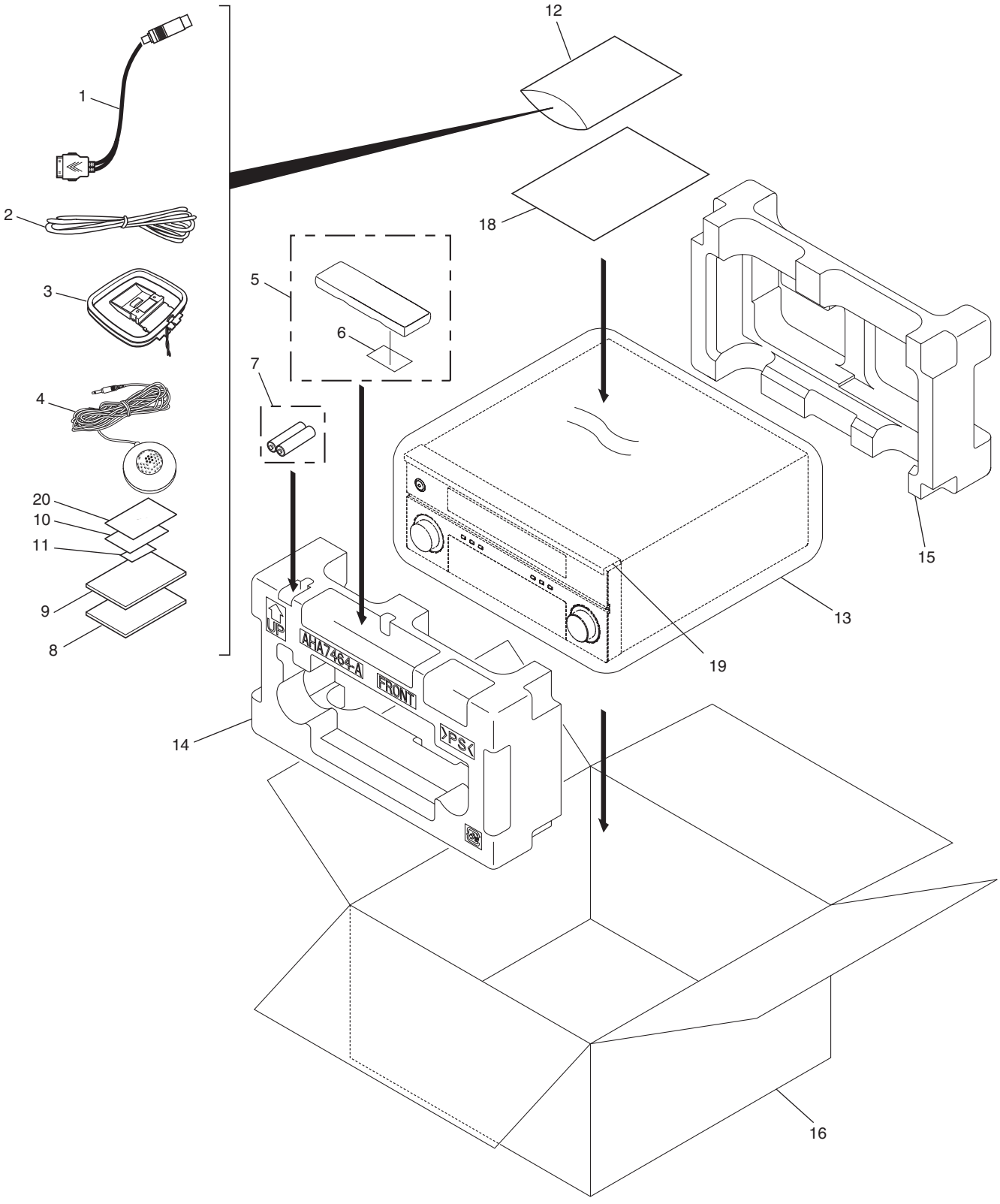


Select the communication speed.
- Basic speed: 19200
- Data transfer speed: 57600

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 ⚠ 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



(1) PACKING SECTION PARTS LIST

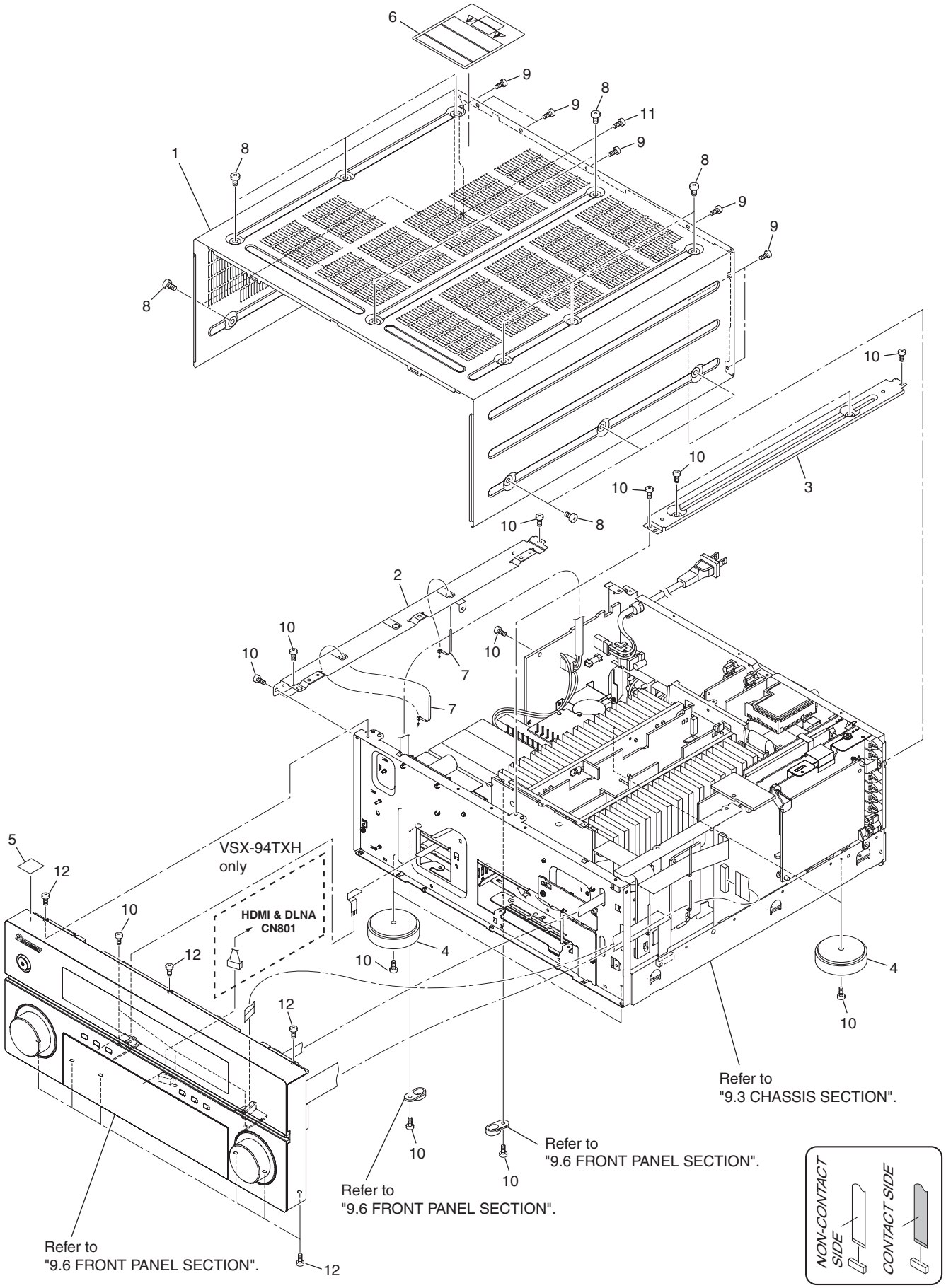
Mark	No.	Description	Part No.
	1	Audio Control Cable for iPod	XDE7025
	2	FM Wire Antenna	ADH7030
	3	AM Loop Antenna	ATB7013
	4	Setup Microphone (for Auto MCACC setup)	APM7008
	5	Remote Control Unit	See Contrast table (2)
	6	Battery Cover	XZN3140
NSP	7	AA/IEC R6P Dry Cell Batteries	VEM1031
	8	Operating Instructions (English)	ARB7379
	9	Operating Instructions (Audio Control Cable for iPod)	See Contrast table (2)
	10	Caution Sheet SP, E	ARM7056
NSP	11	Warranty Card	ARY7007
NSP	12	Polyethylene Bag	AHG7117
	13	Packing Sheet	RHC1023
	14	Front Pad LX50	AHA7464
	15	Rear Pad LX50	AHA7465
	16	Packing Case	See Contrast table (2)
	17	•••••	
	18	Disclaimer E, F	XRM3008
NSP	19	Spacer LX60	AHC7043
	20	Sirius Caution	ARX7105

(2) CONTRAST TABLE

VSX-94TXH/KUXJ/CA and VSX-92TXH/KUXJ/CA are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-94TXH/ KUXJ/CA	VSX-92TXH/ KUXJ/CA
	5	Remote Control Unit	AXD7504	AXD7501
	9	Operating Instructions	ARB7380	Not used
	16	Packing Case	AHD8548	AHD8553

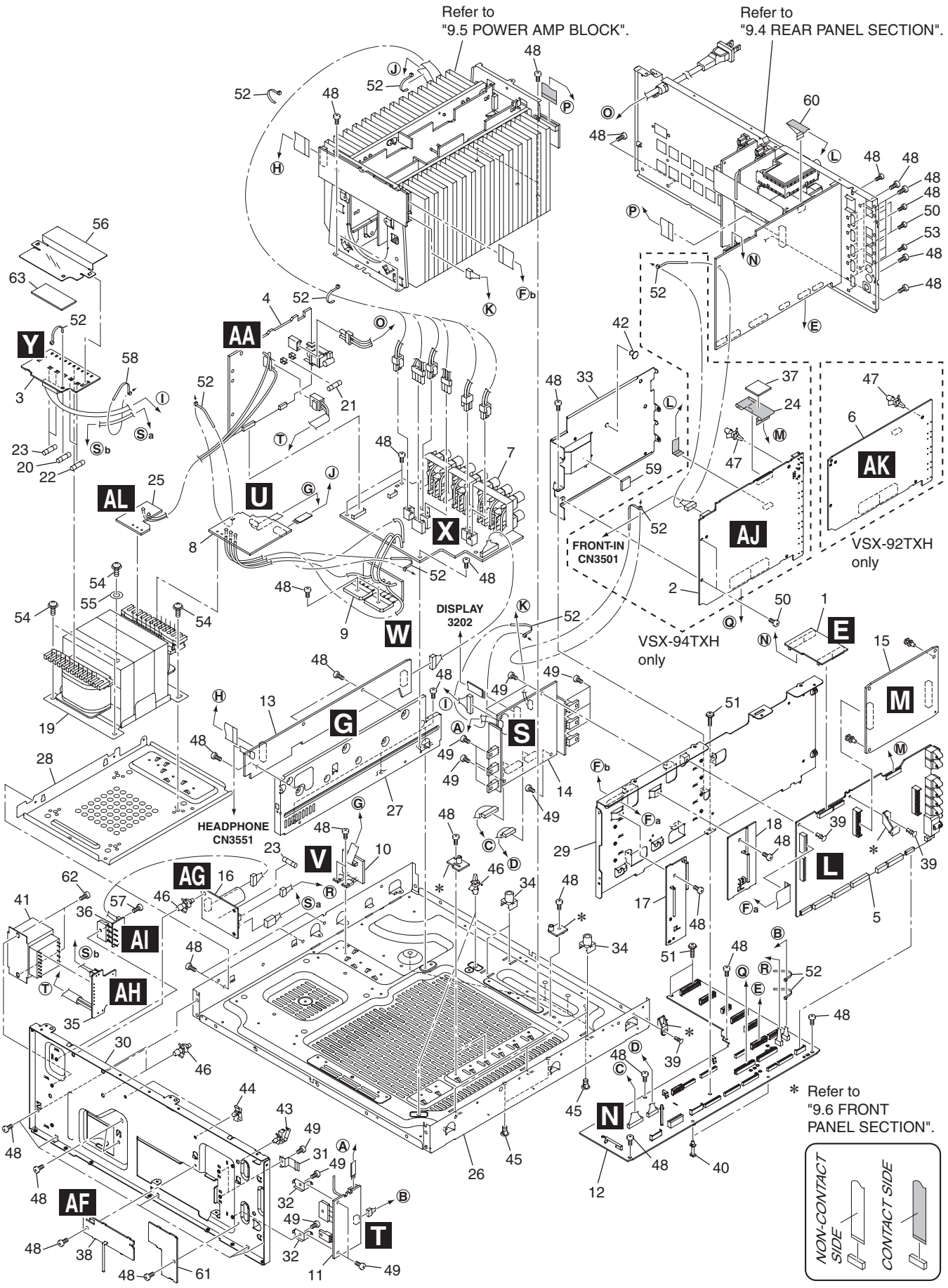
9.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Bonnet 60	AZN8028
	2	Left Beam 45	ANG7401
	3	Center Beam V1	ANG7482
	4	Insulator	AMR7198
NSP	5	Energy Star Label	AAX8022
	6	Label (LICENSE HD)	ARW7359
NSP	7	Binder (BK-1)	ZCA-BK1
	8	Screw	BCZ40P060FTB
	9	Screw	BBZ30P060FCC
	10	Screw	BBZ30P080FCC
	11	Screw	IBP30P090FCC
	12	Screw	BBT30P080FCC

9.3 CHASSIS SECTION



(1) CHASSIS SECTION PARTS LIST

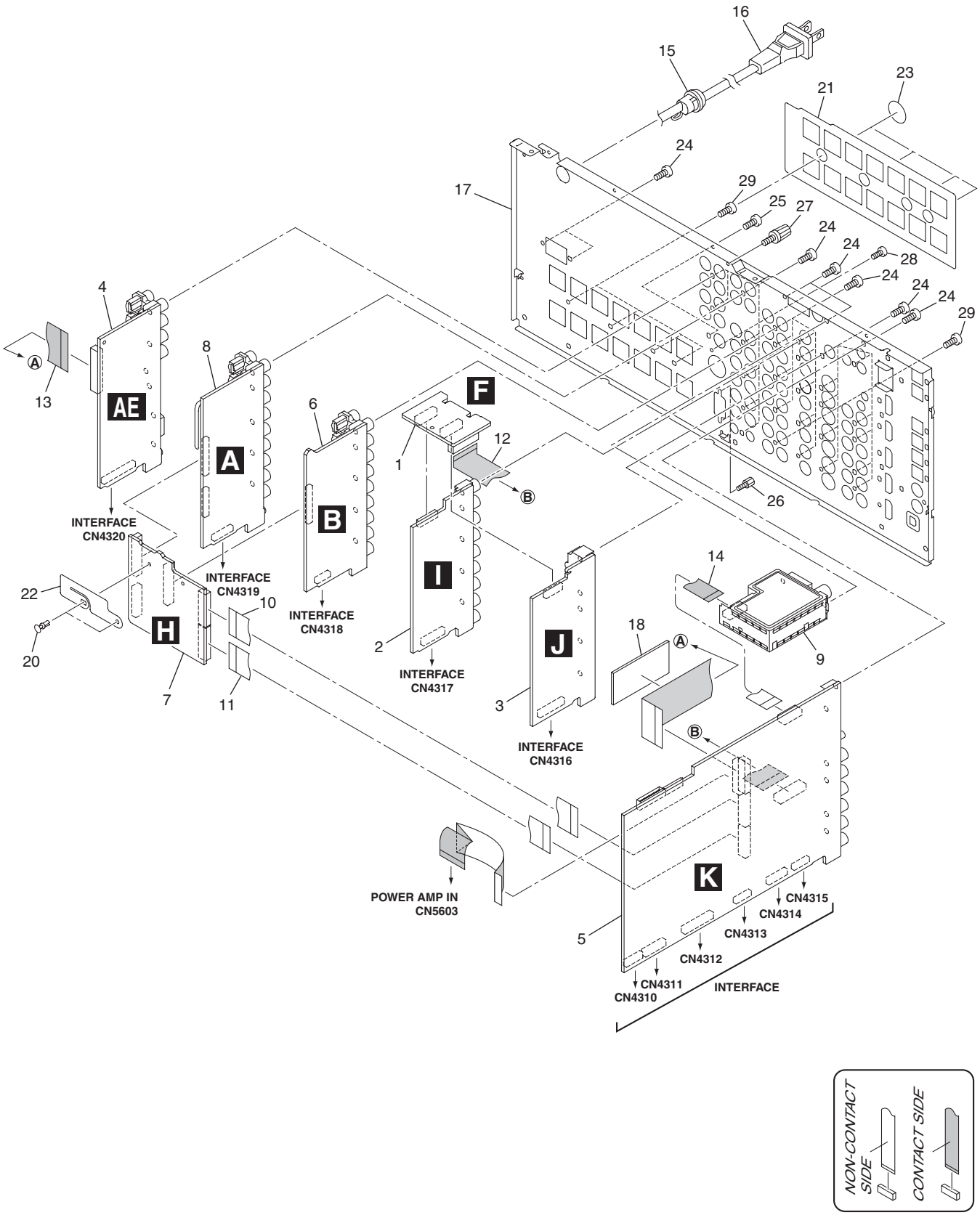
Mark	No.	Description	Part No.
NSP	1	BRIDGE 1 Assy	AWX8934
	2	HDMI & DLNA Assy	See Contrast table (2)
	3	TRANS 2-2 Assy	AWX8891
	4	PRIMARY Assy	AWX8894
	5	DIGITAL MOTHER Assy	See Contrast table (2)
	6	HDMI & DVC Assy	See Contrast table (2)
	7	SP/PS Assy	See Contrast table (2)
	8	TRANS 2-1 Assy	AWX8913
NSP	9	DIODE Assy	AWX8915
	10	VH TR Assy	AWX8916
	11	DC/DC Assy	See Contrast table (2)
	12	INTERFACE Assy	AWX8919
NSP	13	TRANS SIDE Assy	AWX8921
	14	LOCAL SUPPLY Assy	AWX8923
	15	DSP Assy	AWX8869
NSP	16	HDMI POWER Assy	AWX8933
NSP	17	FFC Guard (Front) Assy	AWX8899
NSP	18	FFC Guard (Side) Assy	AWX8937
⚠	19	Power Transformer (T1501)	ATS7402
⚠	20	Fuse (FU4 : 5A/125V)	REK1067
⚠	21	Fuse (FU1 : 10A/125V)	REK1154
⚠	22	Fuse (FU5, 6 : 1.25A/125V)	REK1143
⚠	23	Fuse (FU7, 8, 9 : 2.5A/125V)	REK1146
	24	22P Flexible Cable (J52)	See Contrast table (2)
	25	TRANS 1 Assy	•••••
NSP	26	Under Base 72	ANA7182
	27	Under Beam V1	ANG7478
NSP	28	Trans. Frame 74	ANG7539
NSP	29	DSP Shield 60	ANG7604
NSP	30	Panel Stay 60	ANG7588
NSP	31	Transistor Holder	ANG7543
NSP	32	DC Assy Holder	ANG7544
	33	HDMI Shield 60	ANK7137
	34	PCB Mold	AMR2534
	35	HDMI TRANS Assy	AWX8939
	36	HDMI DIODE Assy	AWX8940
	37	Shield Cushion	See Contrast table (2)
NSP	38	FR IN BARRIER1 Assy	AWX8948
	39	Nyron Rivet	AEC7408
	40	Card Spacer	AEC7502
⚠	41	Power Transformer (T1502)	ATT7103
	42	PCB Spacer	AEC1084
	43	Locking Wire Saddle	AEC7550
	44	Side Clamp	DEC2007
	45	Card Spacer	DNK2769
	46	Locking Card Spacer	PNW2917
	47	PC Support	VEC1749
	48	Screw	BBZ30P080FCC
	49	Screw	BBZ30P060FCC
	50	Screw	BBZ26P080FCC
	51	Screw 3 x 15	ABA7100
NSP	52	Binder (BK-1)	ZCA-BK1
	53	Screw	PMZ30P060FCC
	54	Screw	ABA7125
	55	Washer	WH40FNI
	56	Trans Barrier 60	AEC7588
	57	Screw	IBZ30P080FCC
	58	•••••	
	59	Raditation Sheet	PEB1306
	60	7P Flexible Cable (J55)	ADD7611
NSP	61	FR IN Barrier 2	•••••
	62	Screw	IBP30P090FCC
	63	Barrier Cushion	AEB7391

(2) CONTRAST TABLE

VSX-94TXH/KUXJ/CA and VSX-92TXH/KUXJ/CA are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-94TXH/ KUXJ/CA	VSX-92TXH/ KUXJ/CA
	2	HDMI & DLNA Assy	AWX8870	Not used
	5	DIGITAL MOTHER Assy	AWP7046	AWP7052
	6	HDMI & DVC Assy	Not used	AWX8871
	7	SP/PS Assy	AWX8909	AWX8911
	11	DC/DC Assy	AWX8917	AWX8918
	24	22P Flexible Cable (J52)	ADD7633	Not used
	37	Shield Cushion	AEB7372	Not used

9.4 REAR PANEL SECTION



(1) REAR PANEL SECTION PARTS LIST

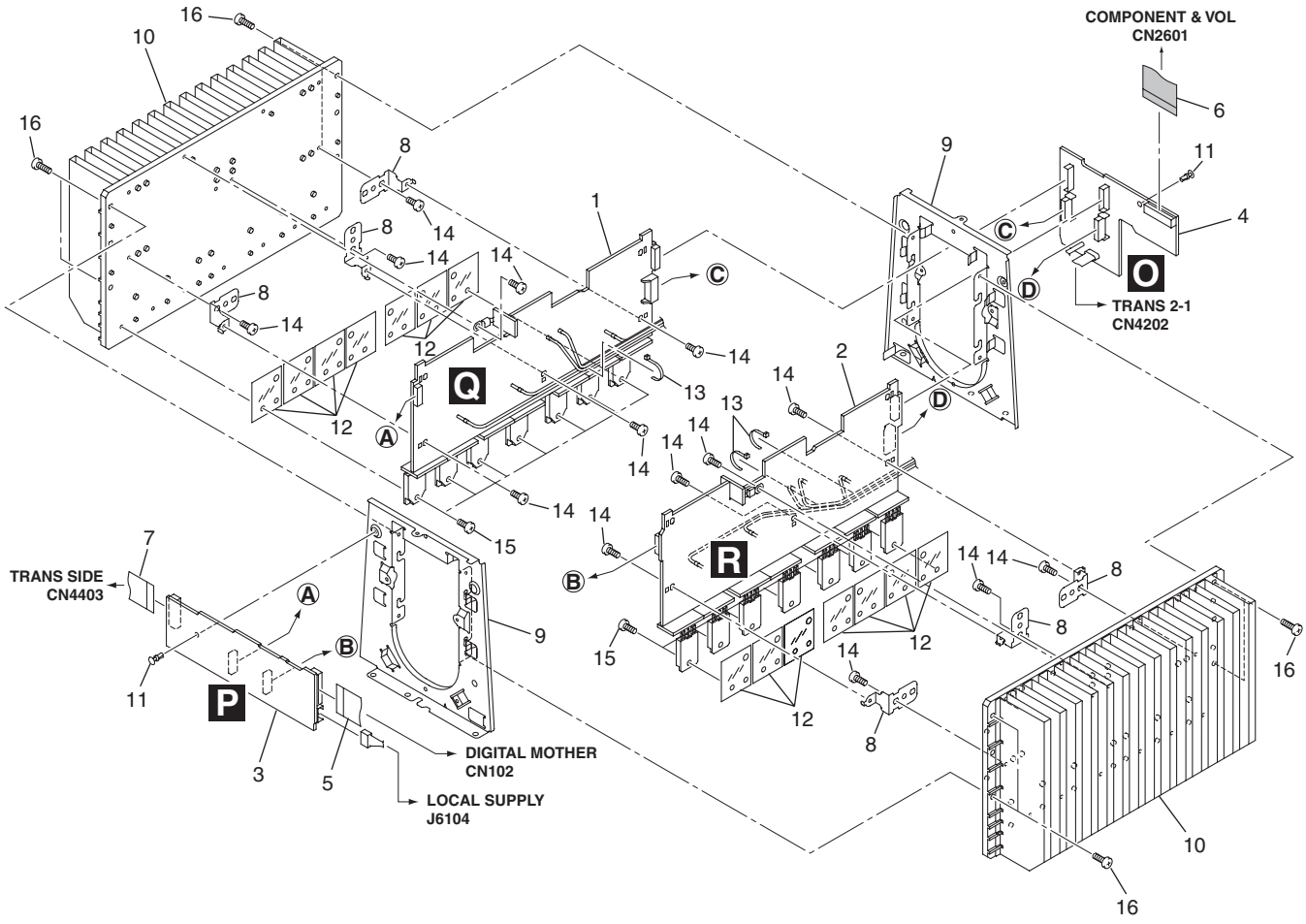
Mark	No.	Description	Part No.
NSP	1	BRIDGE 2 Assy	AWX8935
	2	COMPOSITE V Assy	AWX8884
	3	S VIDEO Assy	AWX8886
	4	PREOUT & CONTROL Assy	AWX8888
	5	COMPONENT & VOL Assy	See Contrast table (2)
	6	V-AUDIO Assy	AWX8930
NSP	7	BRIDGE 3 Assy	AWX8936
	8	AUDIO & MULTI CH IN Assy	AWX8926
	9	FM/AM TUNER Unit	AXX7250
	10	19P Flexible Cable (J45)	ADD7537
	11	15P Flexible Cable (J46)	ADD7613
	12	17P Flexible Cable (J47)	ADD7534
	13	24P Flexible Cable (J48)	ADD7612
	14	11P Flexible Cable (J54)	ADD7536
	15	Cord Stopper	CM-22C
⚠	16	Power Cord	VDG1075
	17	Rear Panel	See Contrast table (2)
	18	FFC Cushion	AEB7373
	19	•••••	
	20	Nyron Rivet	AEC7408
	21	SP Sheet 74	AEC7537
NSP	22	Connect Barrier	AEC7541
	23	Cushion Circle 16B	AED7052
	24	Screw	BBZ30P080FCC
	25	Screw	PMZ30P060FCC
	26	Screw 2.85 x 7	ABA7078
	27	Terminal Screw	AKE-031
	28	Screw	BBZ26P080FCC
	29	Screw	BBT30P100FCC

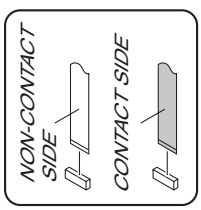
(2) CONTRAST TABLE

VSX-94TXH/KUXJ/CA and VSX-92TXH/KUXJ/CA are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-94TXH/ KUXJ/CA	VSX-92TXH/ KUXJ/CA
	5	COMPONENT & VOL Assy	AWQ7041	AWQ7046
	17	Rear Panel 94KU	ANC8483	Not used
	17	Rear Panel 92KU	Not used	ANC8488

9.5 POWER AMP SECTION

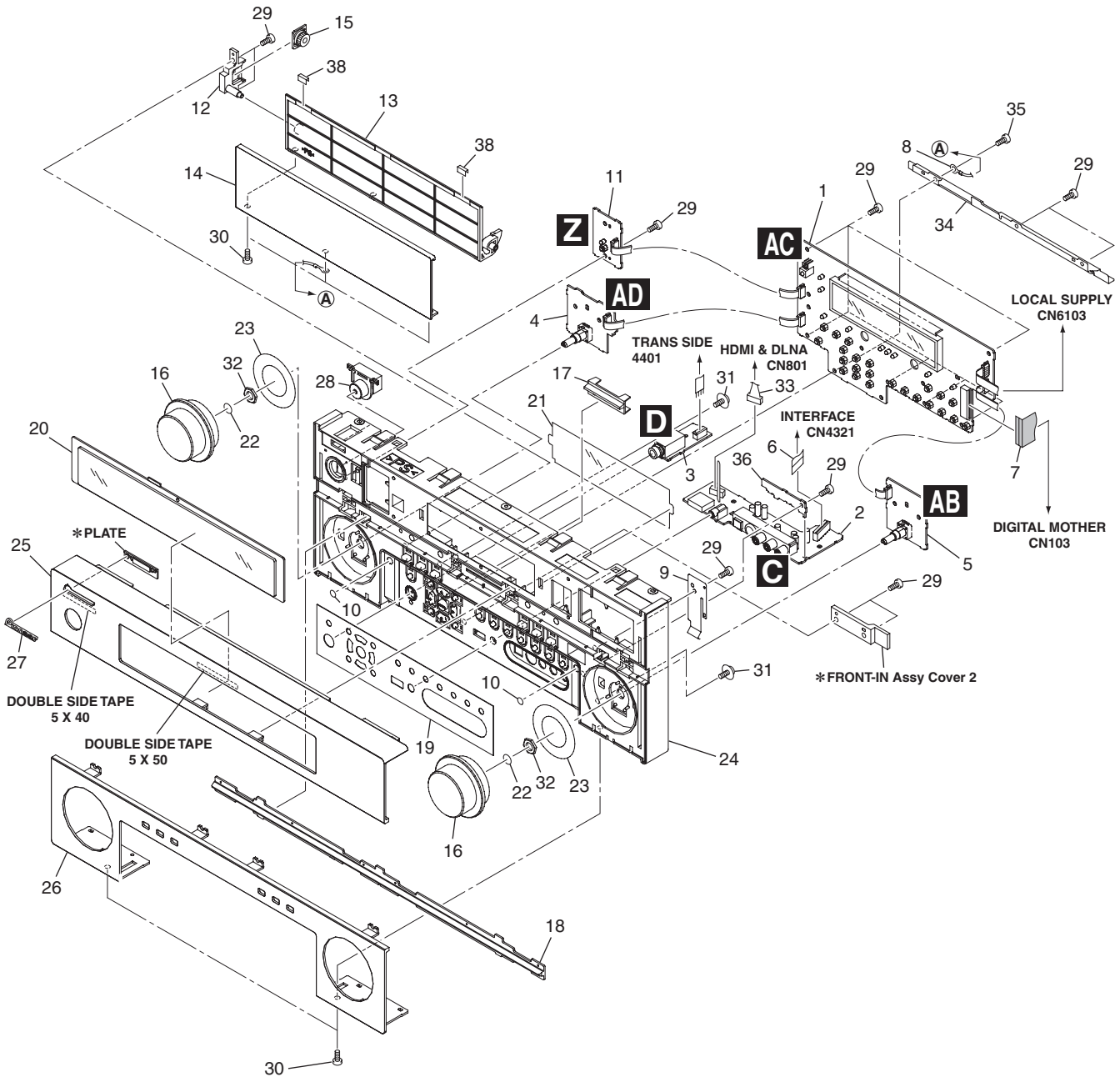


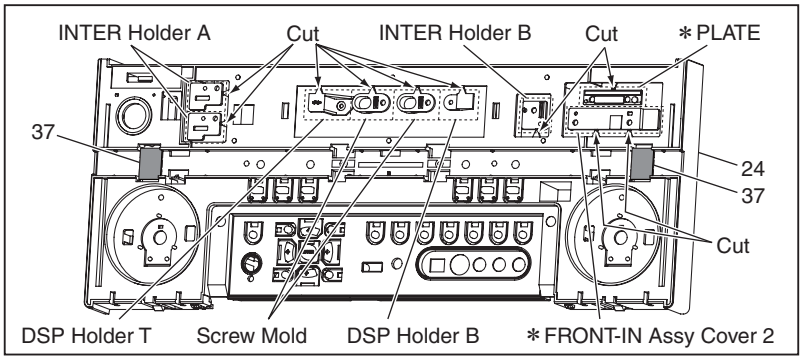


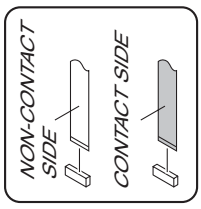
(1) POWER AMP SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	POWER AMP-L Assy	AWX8654
	2	POWER AMP-R Assy	AWX8656
	3	POWER PROTECT Assy	AWX8658
	4	POWER AMP IN Assy	AWX8662
	5	19P Flexible Cable (J43)	ADD7509
	6	19P Flexible Cable (J44)	ADD7535
	7	17P Flexible Cable (J51)	ADD7516
	8	PCB Angle 45	ANG7406
NSP	9	HS Angle 74	ANG7542
NSP	10	Heatsink 74	ANH7181
	11	Nyron Rivet	AEC7408
	12	Mica Sheet	AEC7545
NSP	13	Binder (BK-1)	ZCA-BK1
	14	Screw	BBZ30P080FCC
	15	Screw 3 x 19	ABA7085
	16	Screw	BBT30P100FCC

9.6 FRONT PANEL SECTION







(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	DISPLAY Assy	AWX8900
	2	FRONT-IN Assy	See Contrast table (2)
	3	HEADPHONE Assy	AWX8905
	4	INPUT SELECT Assy	AWX8906
	5	VOLUME Assy	AWX8907
	6	15P Flexible Cable (J41)	ADD7610
	7	31P Flexible Cable (J42)	ADD7609
NSP	8	Cord with Plug	ADH7022
	9	Door Spring	ABK7061
	10	Cushion Circle	AED7083
	11	POWER SW Assy	AWX8908
	12	Door Shaft 60	AMR7531
	13	Door Base 60HY	AMR7529
	14	Door Panel 92KU	ANB7470
	15	Damper Assy (240)	AXA7136
	16	VOL. Knob	AAA7052
	17	IB Lens 60	AAK8379
	18	Center Lens 60	AAK8380
	19	Door Sheet	See Contrast table (2)
	20	Window 92KU	AAK8382
	21	Filter 92KU	AAK8412
	22	VOL Ring 60	ABH7249
	23	Knob Spacer 74	AEC7558
	24	Panel Base 92KU	AMB7967
	25	Front Panel TOP	See Contrast table (2)
	26	Front Panel BTM	ANB7466
	27	Pioneer Badge B	PAN1376
	28	STBY BTN 915K Assy	XAD3216
	29	Screw	BBZ30P080FNI
	30	Screw	BBZ30P080FTB
	31	Screw	ABA7110
	32	Nut	NK90FTC
	33	5P Shielded Cable	See Contrast table (2)
	34	Panel Beam 60	ANG7590
	35	Screw	BBZ30P100FTC
NSP	36	FRONT-IN Assy Cover1	•••••
	37	Cushion 15 X 20	AED7106
	38	Cushion 11 X 7	AED7092

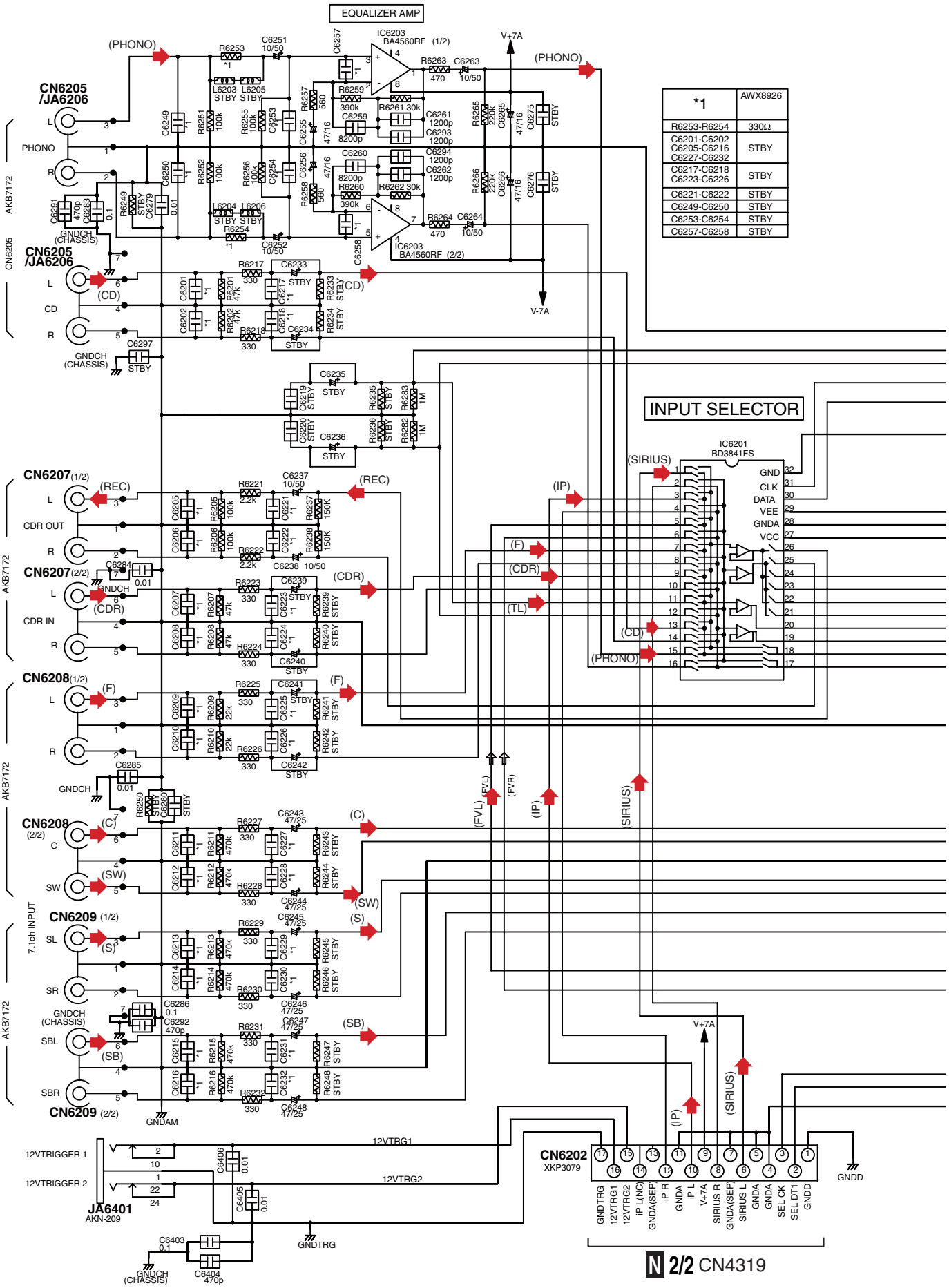
(2) CONTRAST TABLE

VSX-94TXH/KUXJ/CA and VSX-92TXH/KUXJ/CA are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-94TXH/ KUXJ/CA	VSX-92TXH/ KUXJ/CA
	2	FRONT-IN Assy	AWX8902	AWX8903
	19	Door Sheet 94KU	AAK8395	Not used
	19	Door Sheet 92KU	Not used	AAK8381
	25	Front Panel TOP 94KU	ANB7462	Not used
	25	Front Panel TOP 92KU	Not used	ANB7459
	33	5P Shielded Cable	ADX7573	Not used

10. SCHEMATIC DIAGRAM

10.1 AUDIO & MULTI CH IN ASSY

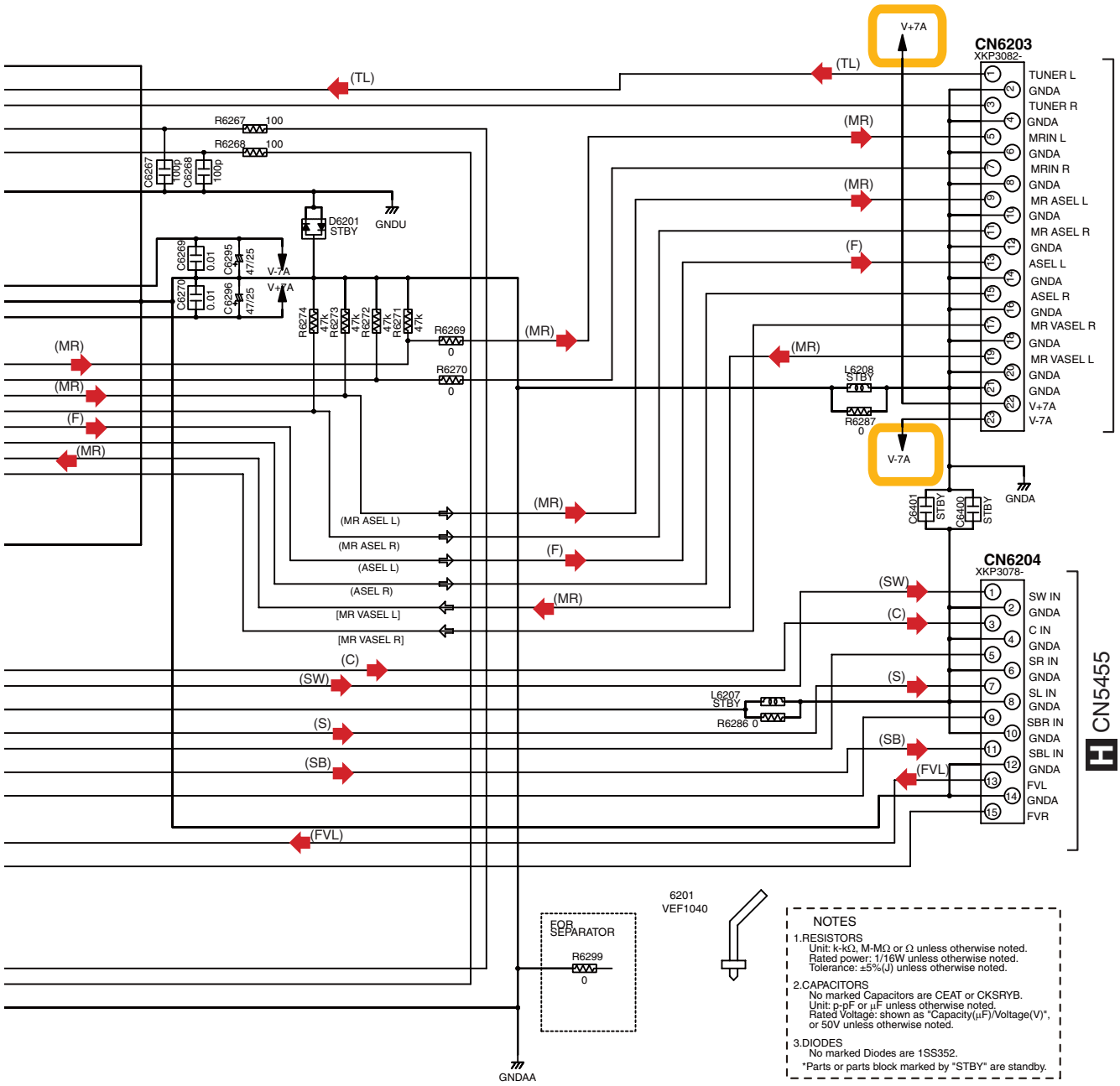


*1	AWX8926
R6253-R6254	330Ω
C6201-C6202 C6205-C6216 C6227-C6232	STBY
C6217-C6218 C6223-C6226	STBY
C6221-C6222	STBY
C6249-C6250	STBY
C6253-C6254	STBY
C6257-C6258	STBY

(F) : AUDIO SIGNAL ROUTE(F)
(C) : AUDIO SIGNAL ROUTE(C)
(S) : AUDIO SIGNAL ROUTE(S)
(SB) : AUDIO SIGNAL ROUTE(SB)
(SW) : AUDIO SIGNAL ROUTE(SW)
(PHONO) : AUDIO SIGNAL ROUTE (PHONO)
(IP) : AUDIO SIGNAL ROUTE(IP)
(SIRIUS) : AUDIO SIGNAL ROUTE(SIRIUS)

(CD) : AUDIO SIGNAL ROUTE (CD)
(TL) : AUDIO SIGNAL ROUTE (TL)
(MR) : AUDIO SIGNAL ROUTE (MR)
(REC) : AUDIO SIGNAL ROUTE (REC)
(CDR) : AUDIO SIGNAL ROUTE (CDR)
(FVL) : AUDIO SIGNAL ROUTE (FVL)

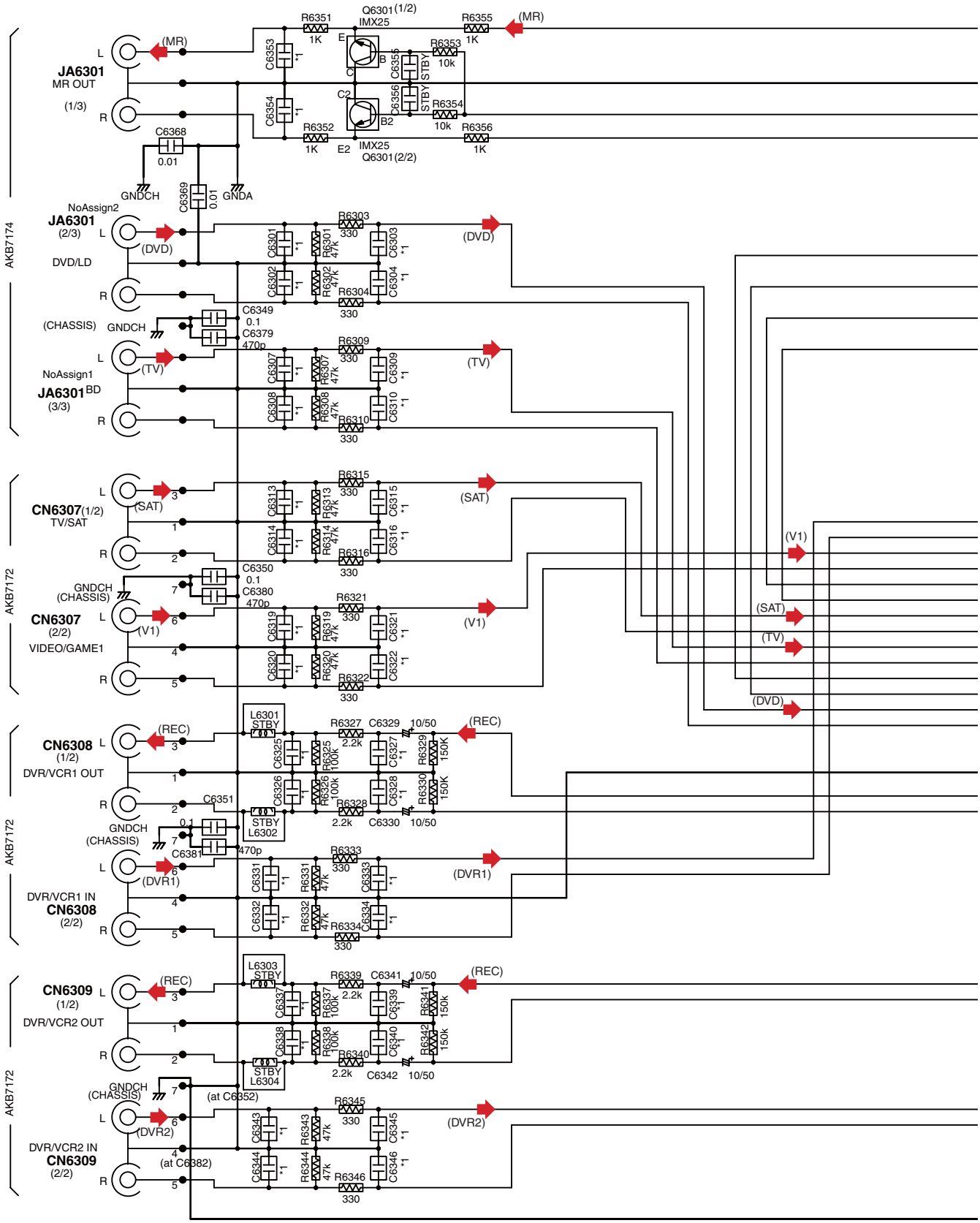
A AUDIO & MULTI CH IN ASSY (AWX8926)



NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
3.DIODES
No marked Diodes are 1SS352.
*Parts or parts block marked by "STBY" are standby.

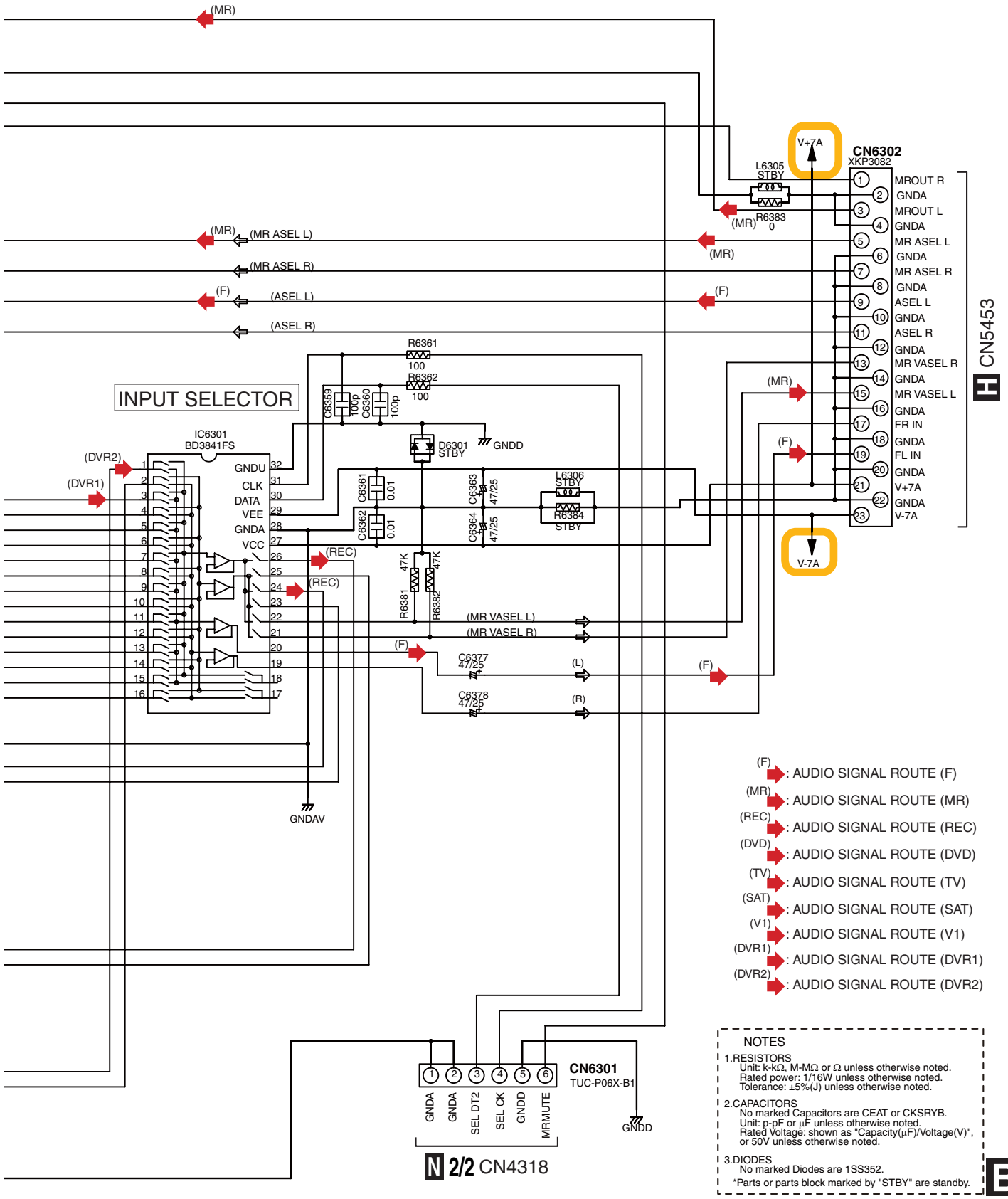
10.2 V-AUDIO ASSY

B V-AUDIO ASSY (AWX8930)



*1

	AWX8930
C6353-C6354	STBY
C6301-C6304 C6307-C6310 C6213-C6316 C6319-C6322 C6325-C6326 C6331-C6334 C6337-C6338 C6343-C6346	STBY
C6327-C6328 C6339-C6340	STBY



(F): AUDIO SIGNAL ROUTE (F)
(MR): AUDIO SIGNAL ROUTE (MR)
(REC): AUDIO SIGNAL ROUTE (REC)
(DVD): AUDIO SIGNAL ROUTE (DVD)
(TV): AUDIO SIGNAL ROUTE (TV)
(SAT): AUDIO SIGNAL ROUTE (SAT)
(V1): AUDIO SIGNAL ROUTE (V1)
(DVR1): AUDIO SIGNAL ROUTE (DVR1)
(DVR2): AUDIO SIGNAL ROUTE (DVR2)

NOTES

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

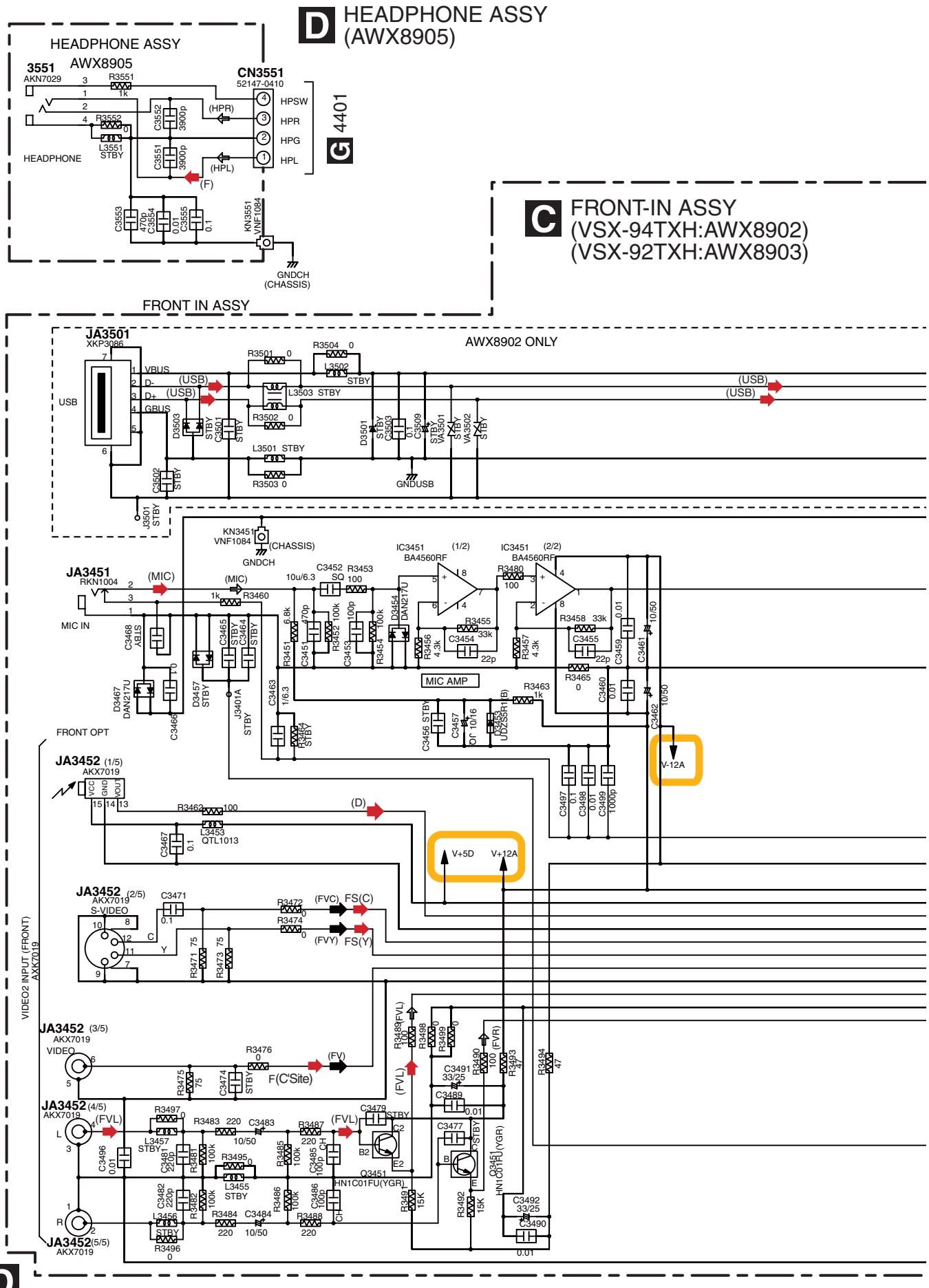
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS352.

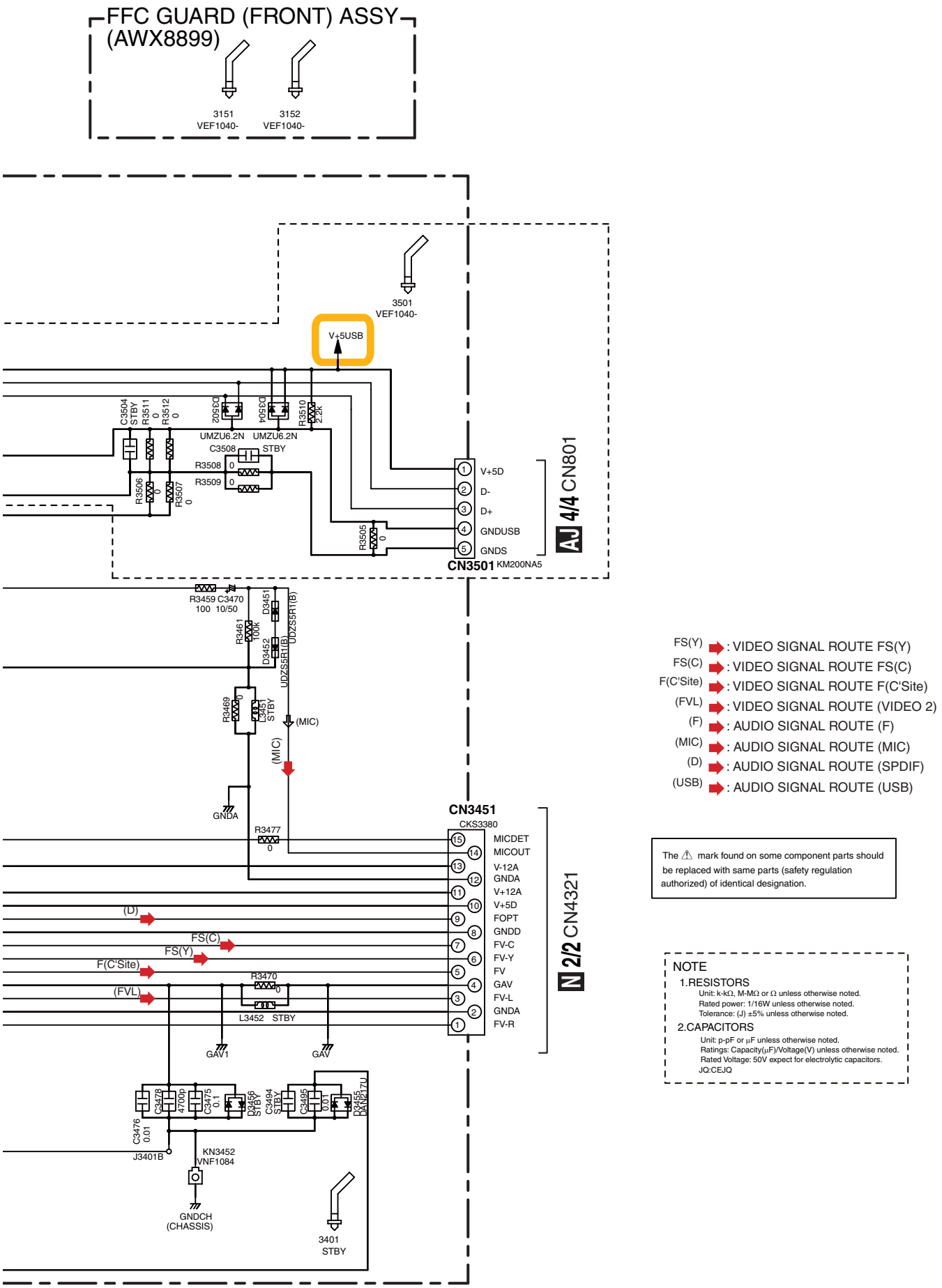
*Parts or parts block marked by "STBY" are standby.

B

10.3 FRONT-IN and HEADPHONE ASSYS



C D

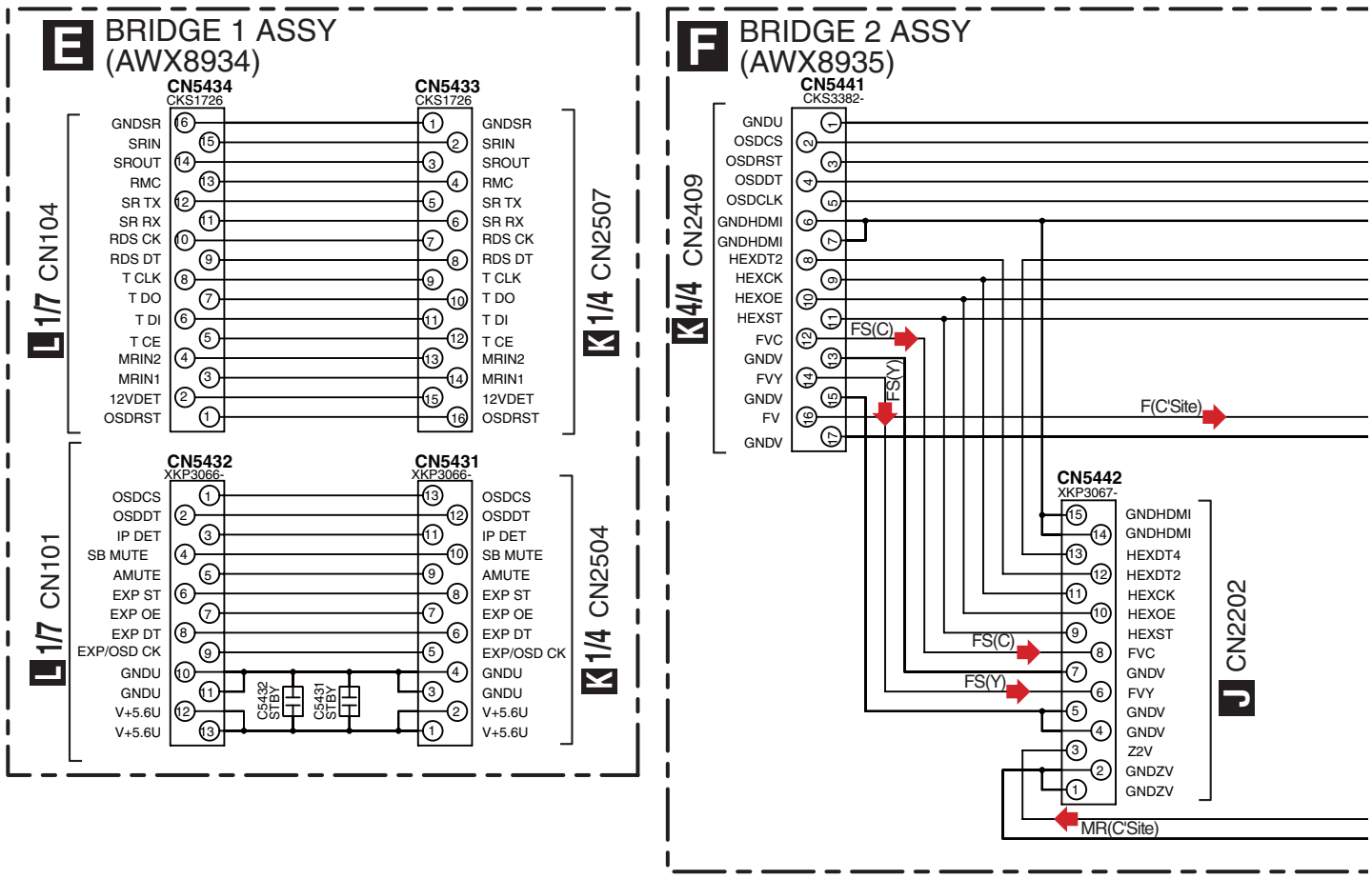


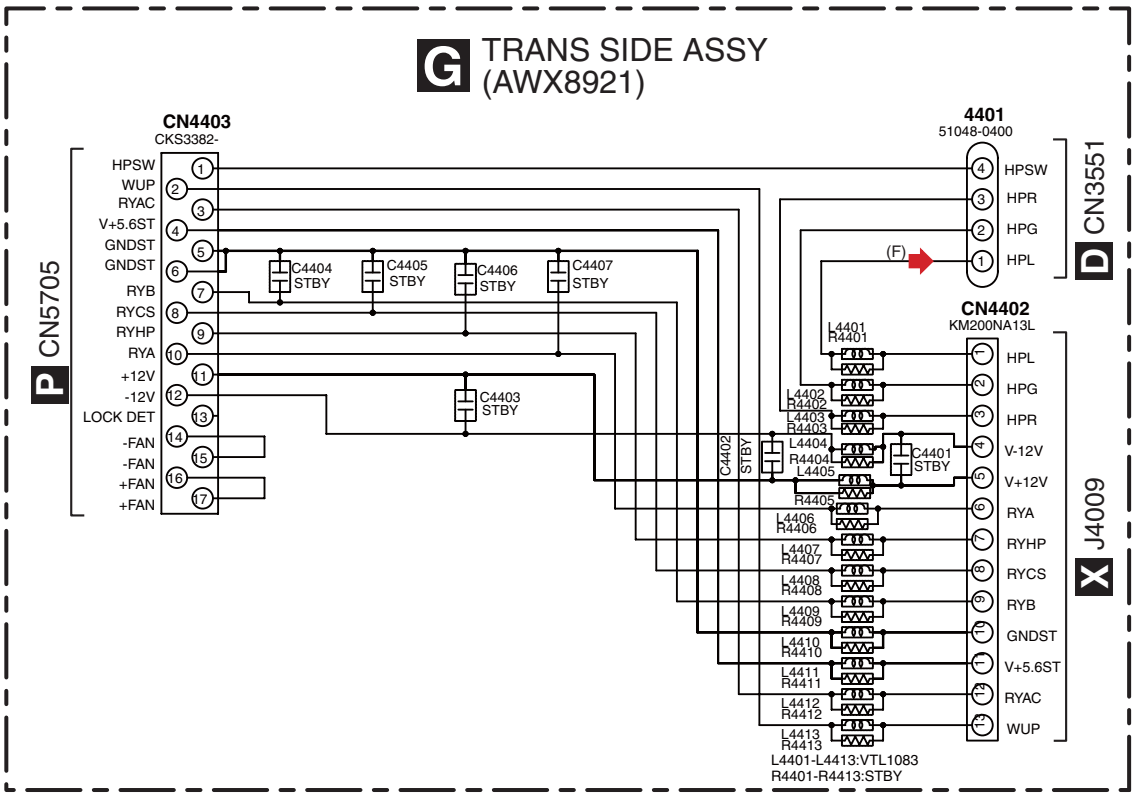
FS(Y) : VIDEO SIGNAL ROUTE FS(Y)
FS(C) : VIDEO SIGNAL ROUTE FS(C)
F(C'Site) : VIDEO SIGNAL ROUTE F(C'Site)
(FVL) : VIDEO SIGNAL ROUTE (VIDEO 2)
(F) : AUDIO SIGNAL ROUTE (F)
(MIC) : AUDIO SIGNAL ROUTE (MIC)
(D) : AUDIO SIGNAL ROUTE (SPDIF)
(USB) : AUDIO SIGNAL ROUTE (USB)

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

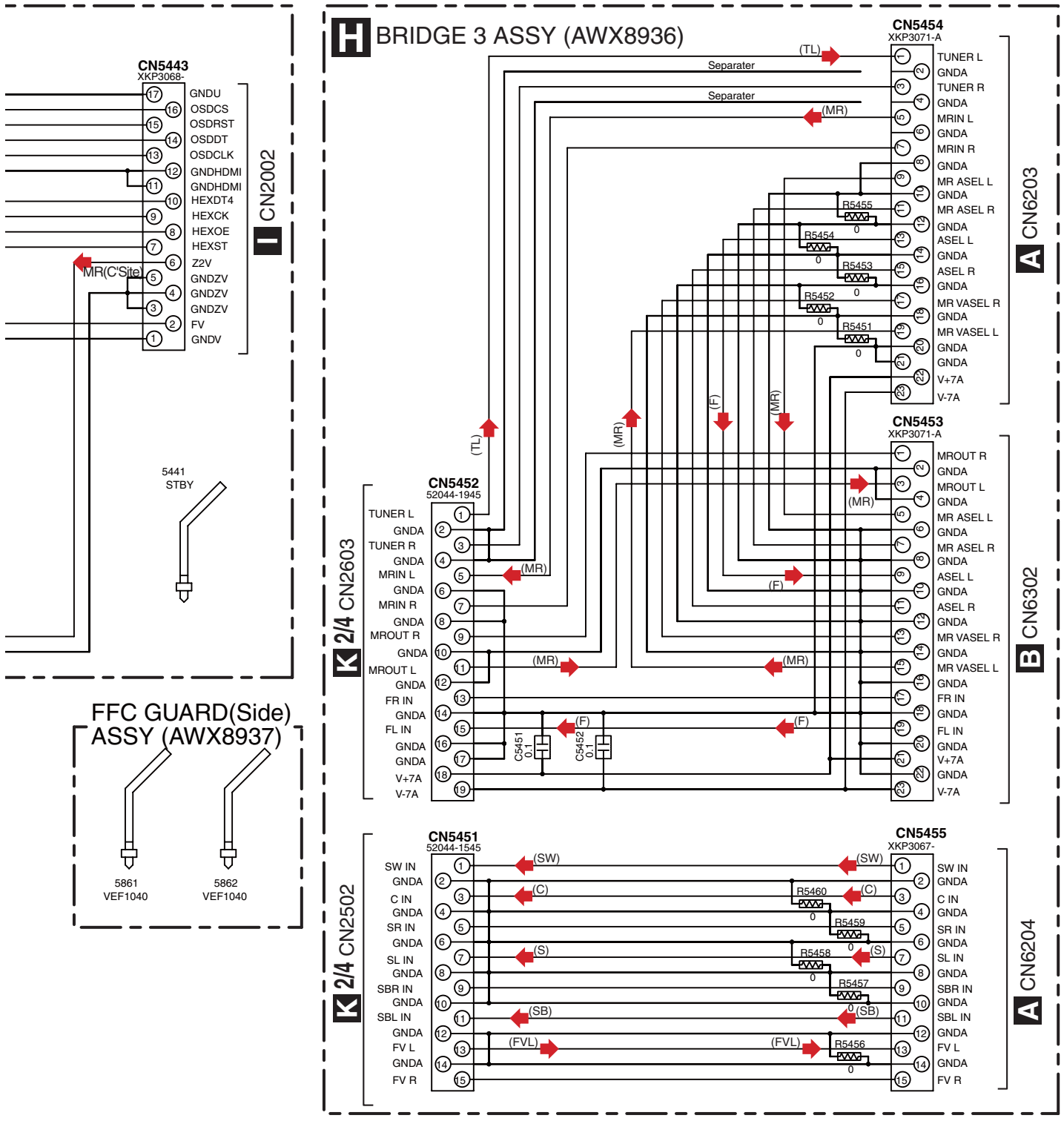
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
JQ:CEJQ

10.4 BRIDGE1, BRIDGE2, TRANS SIDE and BRIDGE3 ASSYS





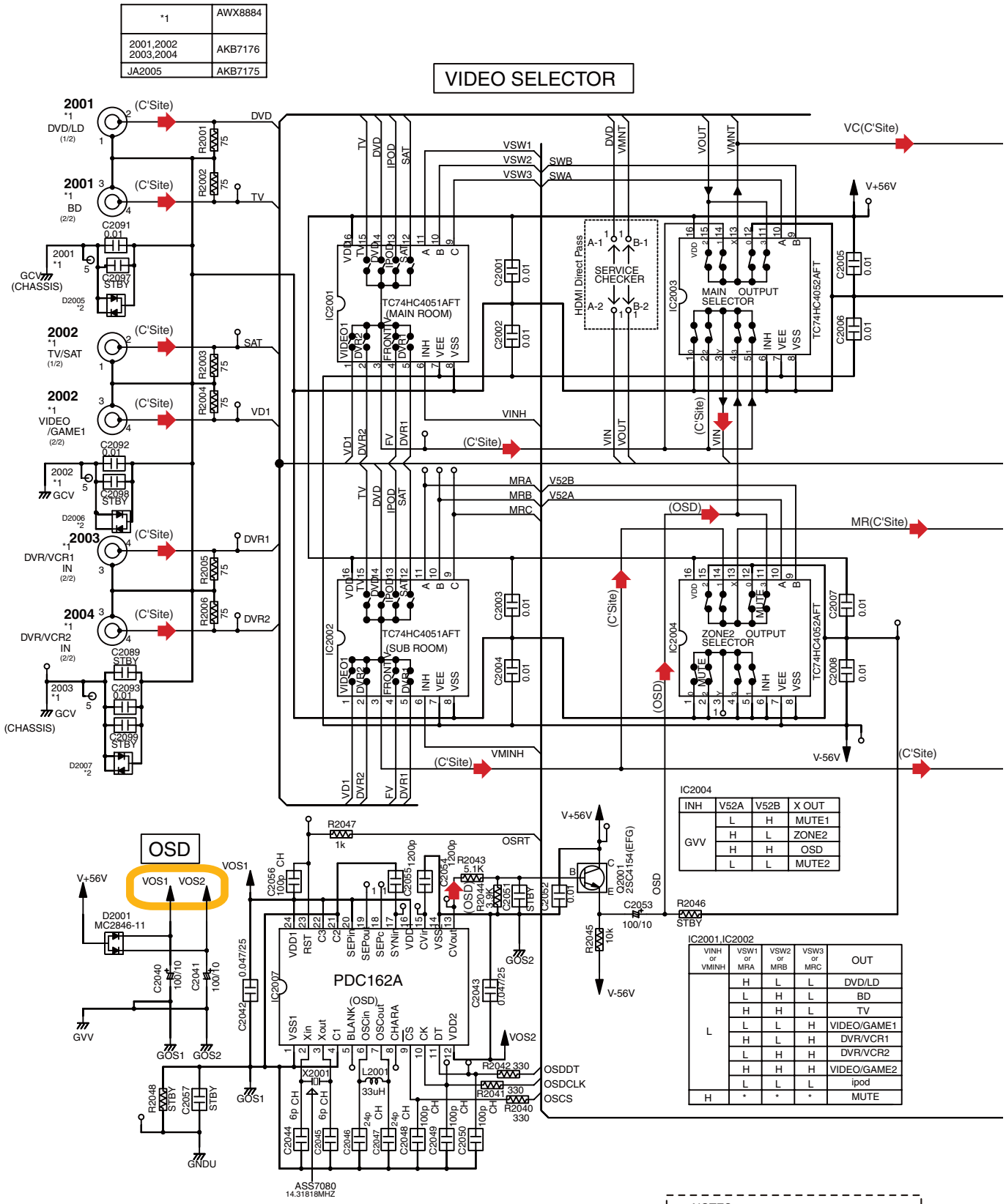
E F G



MR(C'Site) : VIDEO SIGNAL ROUTE MR(C'Site)
F(C'Site) : VIDEO SIGNAL ROUTE F(C'Site)
FS(C) : VIDEO SIGNAL ROUTE FS(C)
FS(Y) : VIDEO SIGNAL ROUTE FS(Y)

(F) : AUDIO SIGNAL ROUTE(F)
(C) : AUDIO SIGNAL ROUTE(C)
(S) : AUDIO SIGNAL ROUTE(S)
(SB) : AUDIO SIGNAL ROUTE(SB)
(SW) : AUDIO SIGNAL ROUTE(SW)
(TL) : AUDIO SIGNAL ROUTE(TUNER)
(FVL) : AUDIO SIGNAL ROUTE(VIDEO2)
(MR) : AUDIO SIGNAL ROUTE(MR)

10.5 COMPOSITE V ASSY

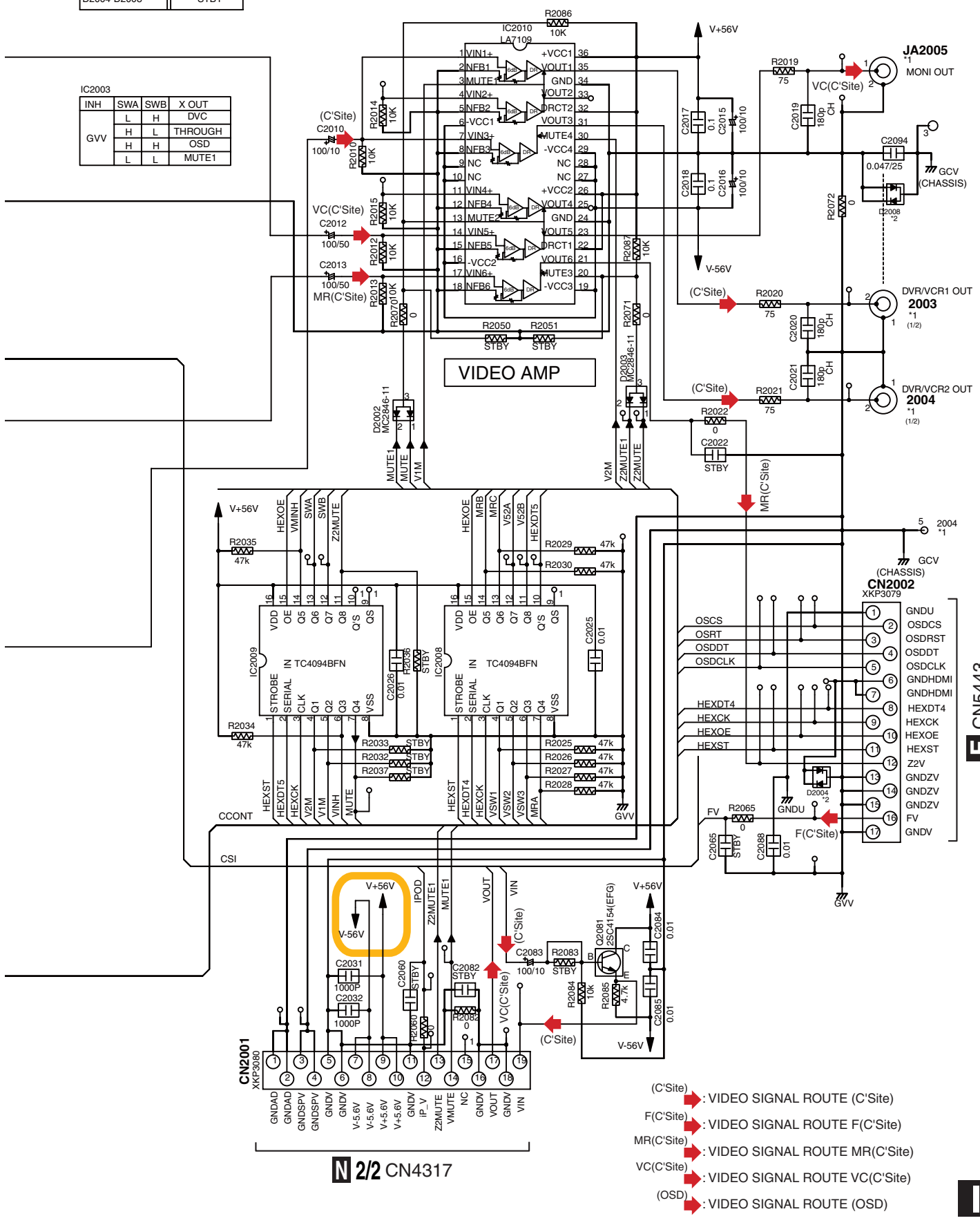


I COMPOSITE V ASSY (AWX8884)

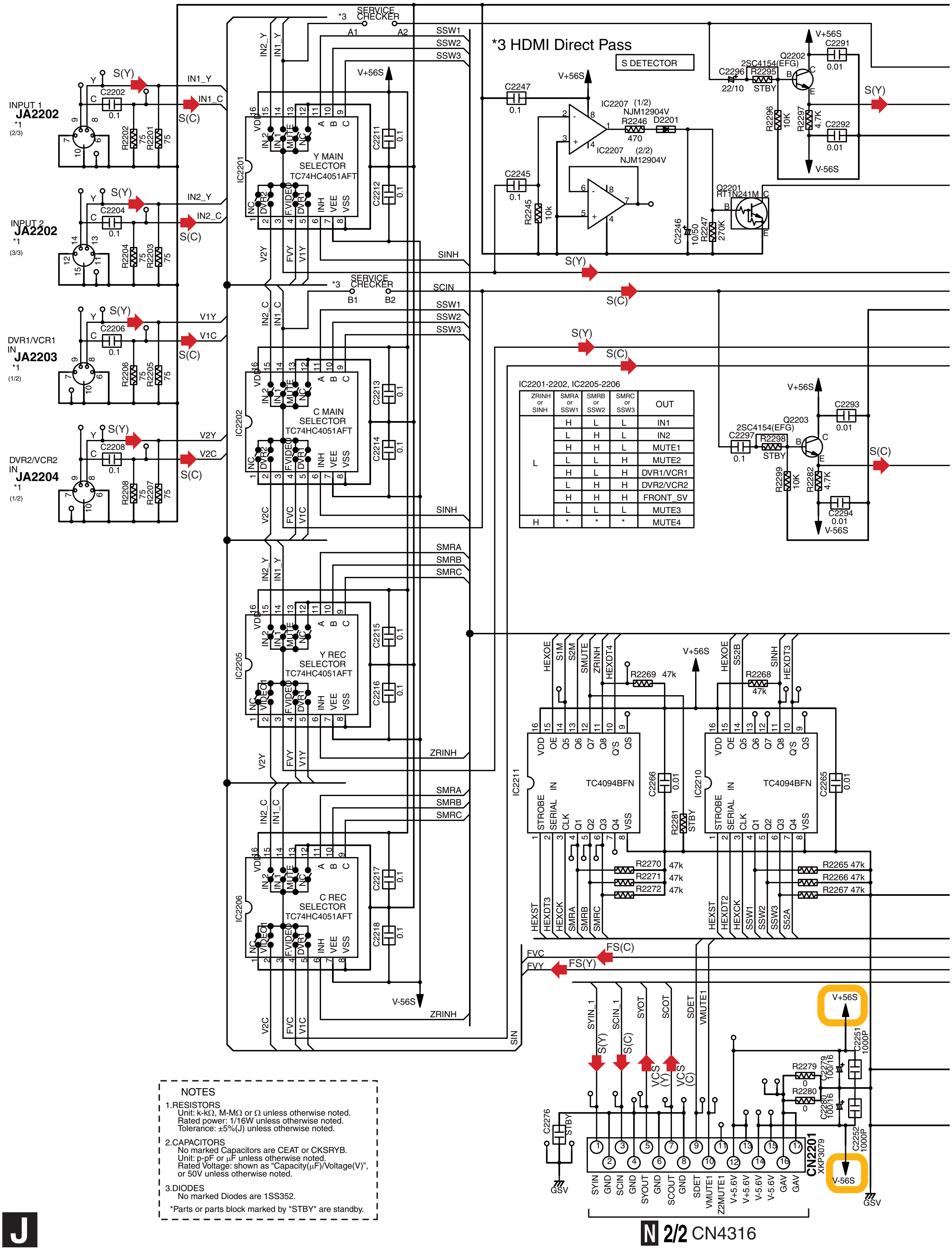
*2	AWX8884
D2004-D2008	STBY

IC2003

INH	SWA	SWB	X OUT
GVV	L	H	DVC
	H	L	THROUGH
	H	H	OSD
	L	L	MUTE1



10.6 S-VIDEO ASSY



IC2201-2202, IC2205-2206

ZRINH or SINH	SMRA or SSW1	SMRB or SSW2	SMRC or SSW3	OUT
L	H	L	L	IN1
	L	H	L	IN2
	H	H	L	MUTE1
	L	L	H	MUTE2
	H	L	H	DVR1/VCR1
	L	H	H	DVR2/VCR2
	H	H	H	FRONT_SV
	L	L	L	MUTE3
H	*	*	*	MUTE4

NOTES

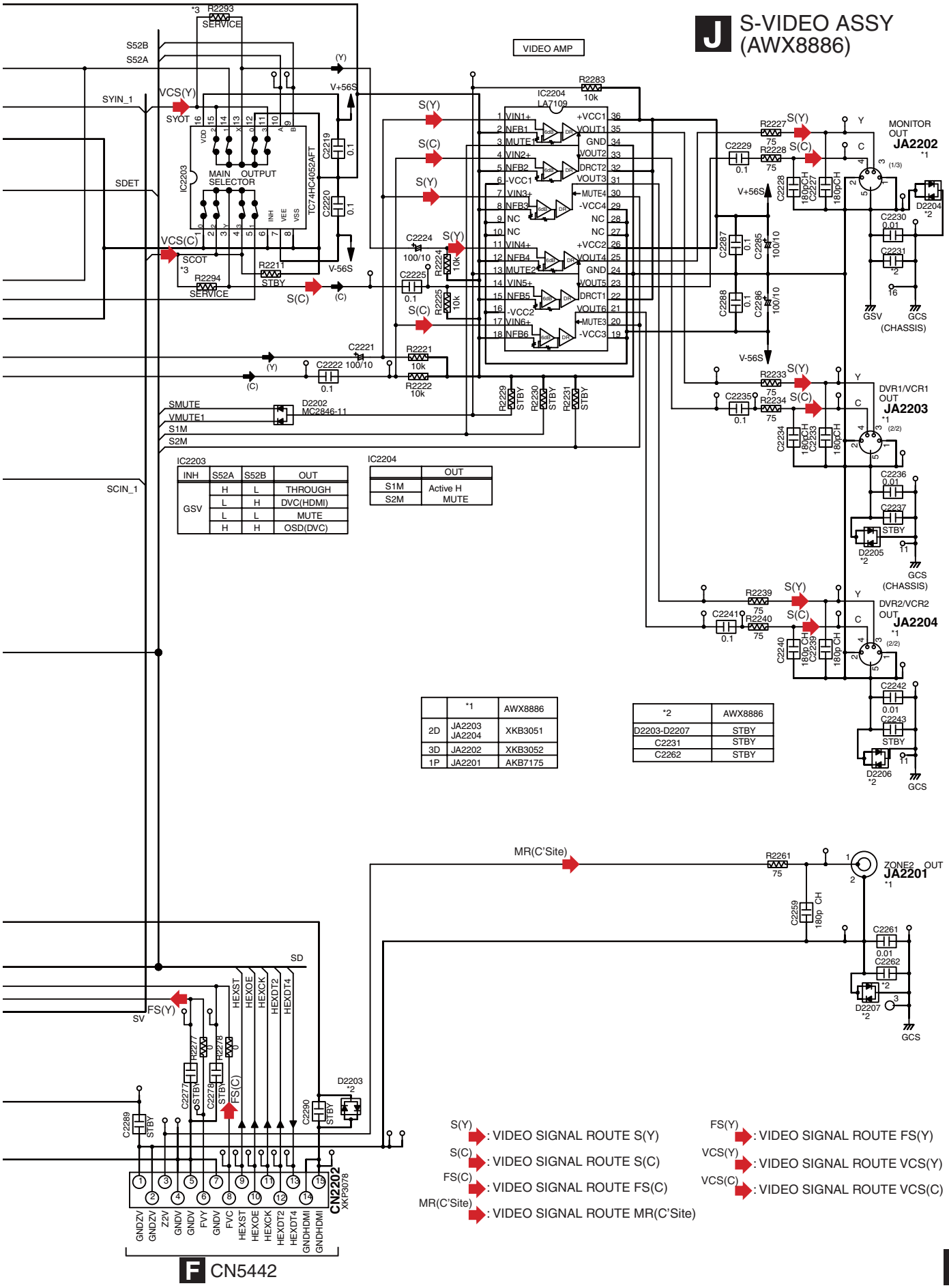
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS352.

*Parts or parts block marked by "STBY" are standby.

J S-VIDEO ASSY (AWX8886)



IC2203			
INH	S52A	S52B	OUT
GSV	H	L	THROUGH
	L	H	DVC(HDMI)
	L	L	MUTE
	H	H	OSD(DVC)

IC2204	
	OUT
S1M	Active H
S2M	MUTE

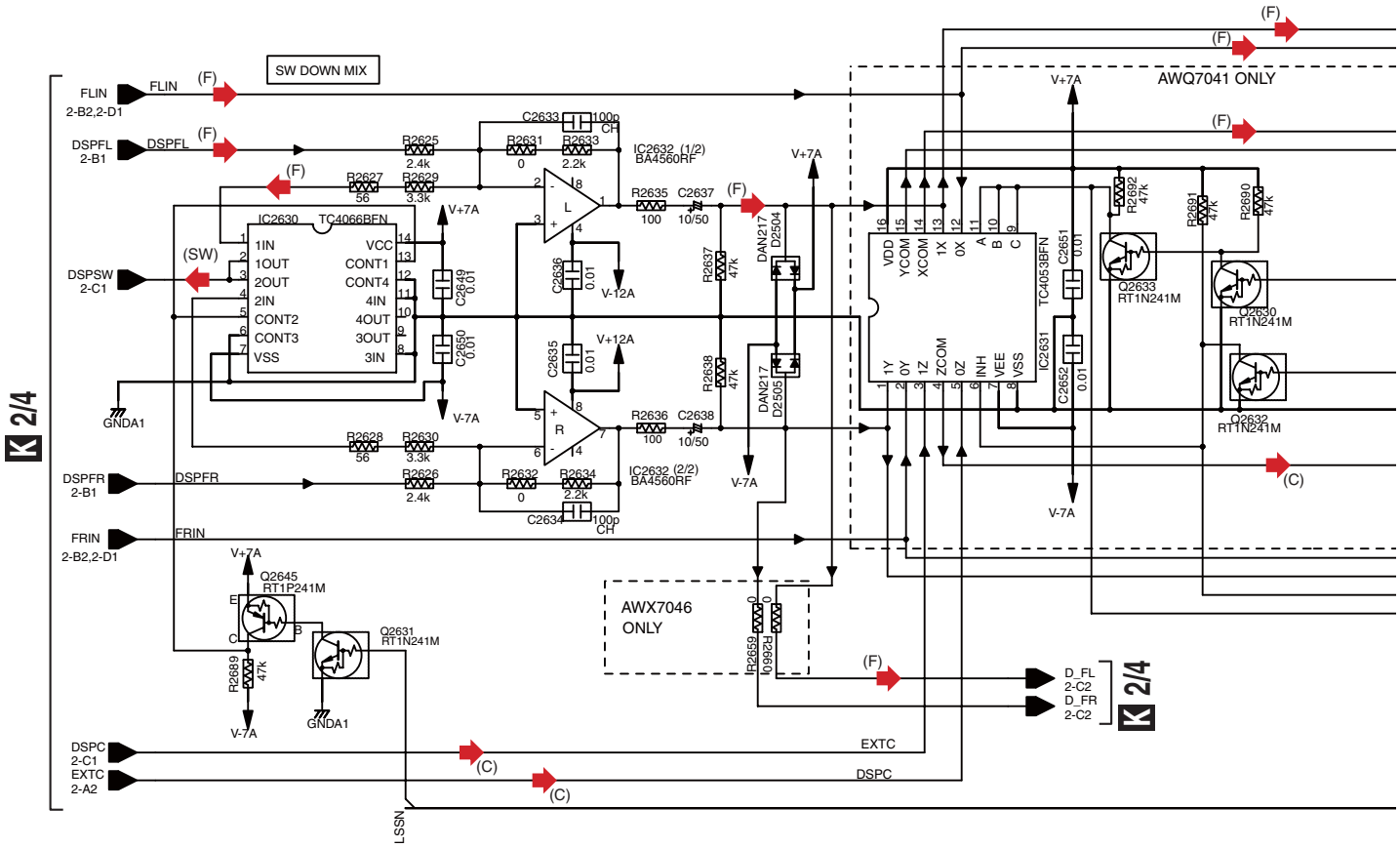
	*1	AWX8886
2D	JA2203 JA2204	XKB3051
3D	JA2202	XKB3052
1P	JA2201	AKB7175

*2	AWX8886
D2203-D2207	STBY
C2231	STBY
C2262	STBY

S(Y) : VIDEO SIGNAL ROUTE S(Y)
S(C) : VIDEO SIGNAL ROUTE S(C)
FS(C) : VIDEO SIGNAL ROUTE FS(C)
MR(C'Site) : VIDEO SIGNAL ROUTE MR(C'Site)
FS(Y) : VIDEO SIGNAL ROUTE FS(Y)
VCS(Y) : VIDEO SIGNAL ROUTE VCS(Y)
VCS(C) : VIDEO SIGNAL ROUTE VCS(C)

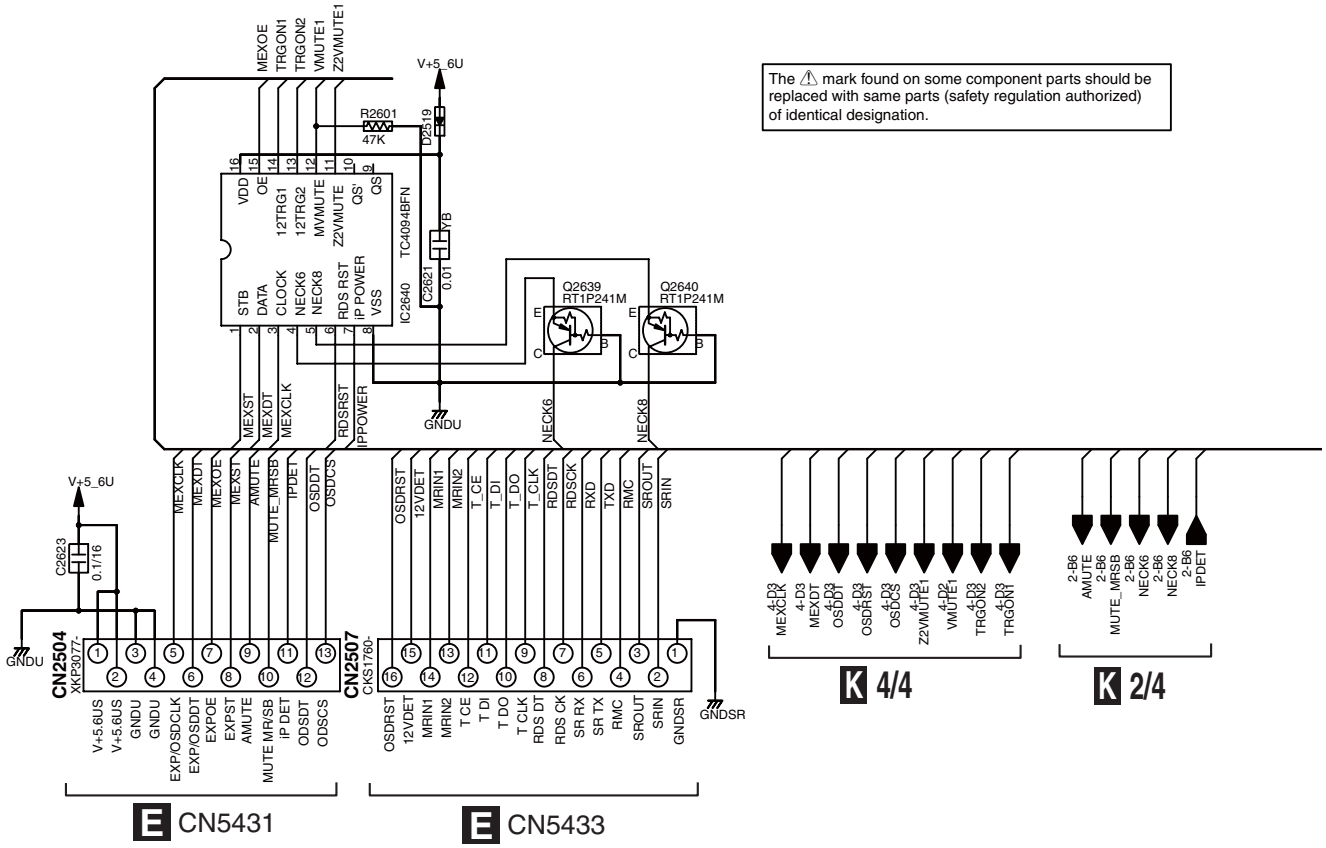
F CN5442

10.7 COMPONENT & VOL ASSY (1/4)



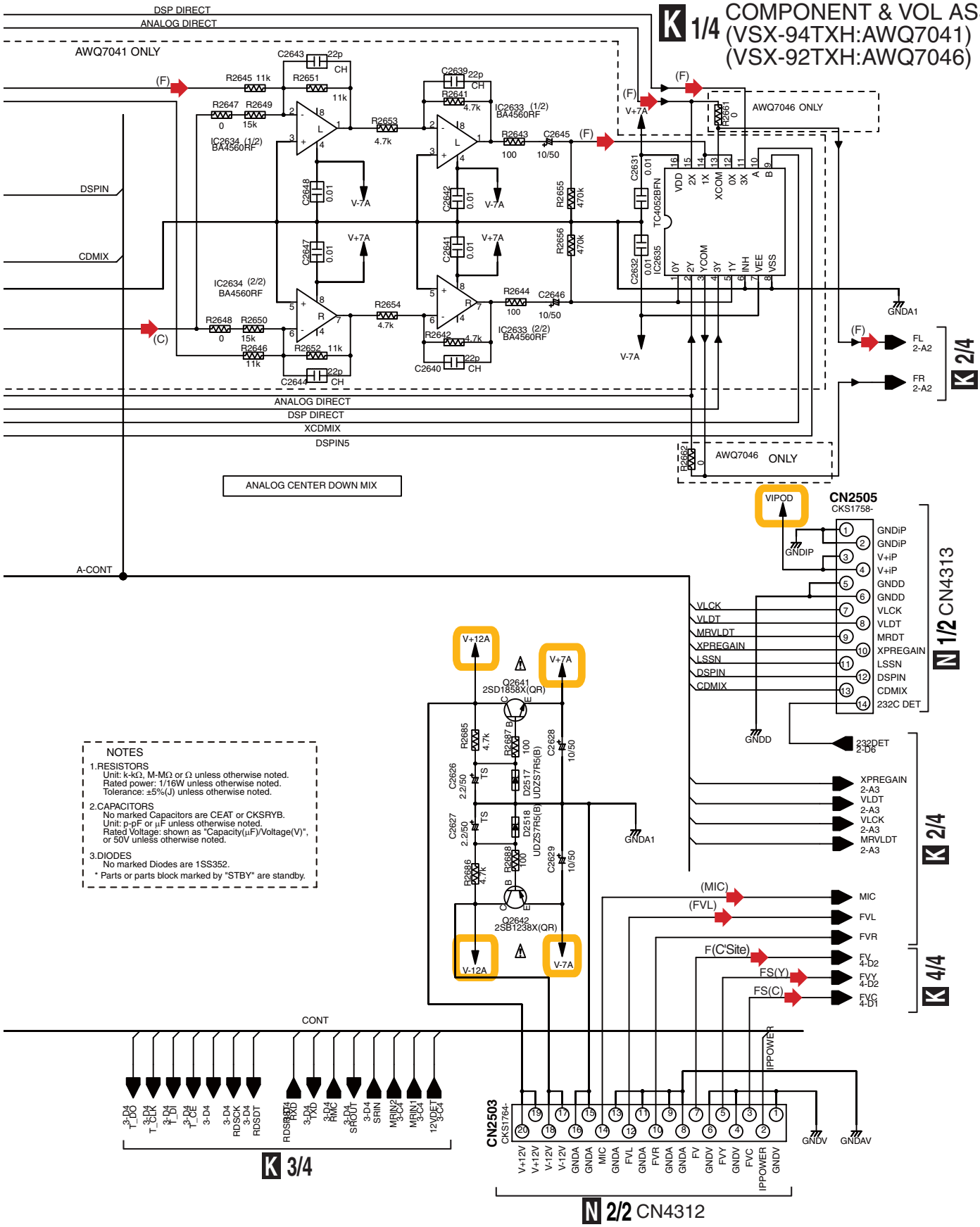
SW DOWN MIX SELECT		
XLSSN	L	H
IC2630[CONT]	H	L
SW DOWNMIX	ON	OFF

CENTER DOWN MIX SELECT								
CDMIX	DSPIN	IC2631				IC2635		SELECT
		A	B	C	INH	A	B	
L	H	H	H	H	H	H	H	DSP Direct
L	L	L	L	L	H	L	H	Analog Direct
H	H	H	H	H	L	H	L	DSP Downmix
H	L	L	L	L	L	L	L	Analog Downmix

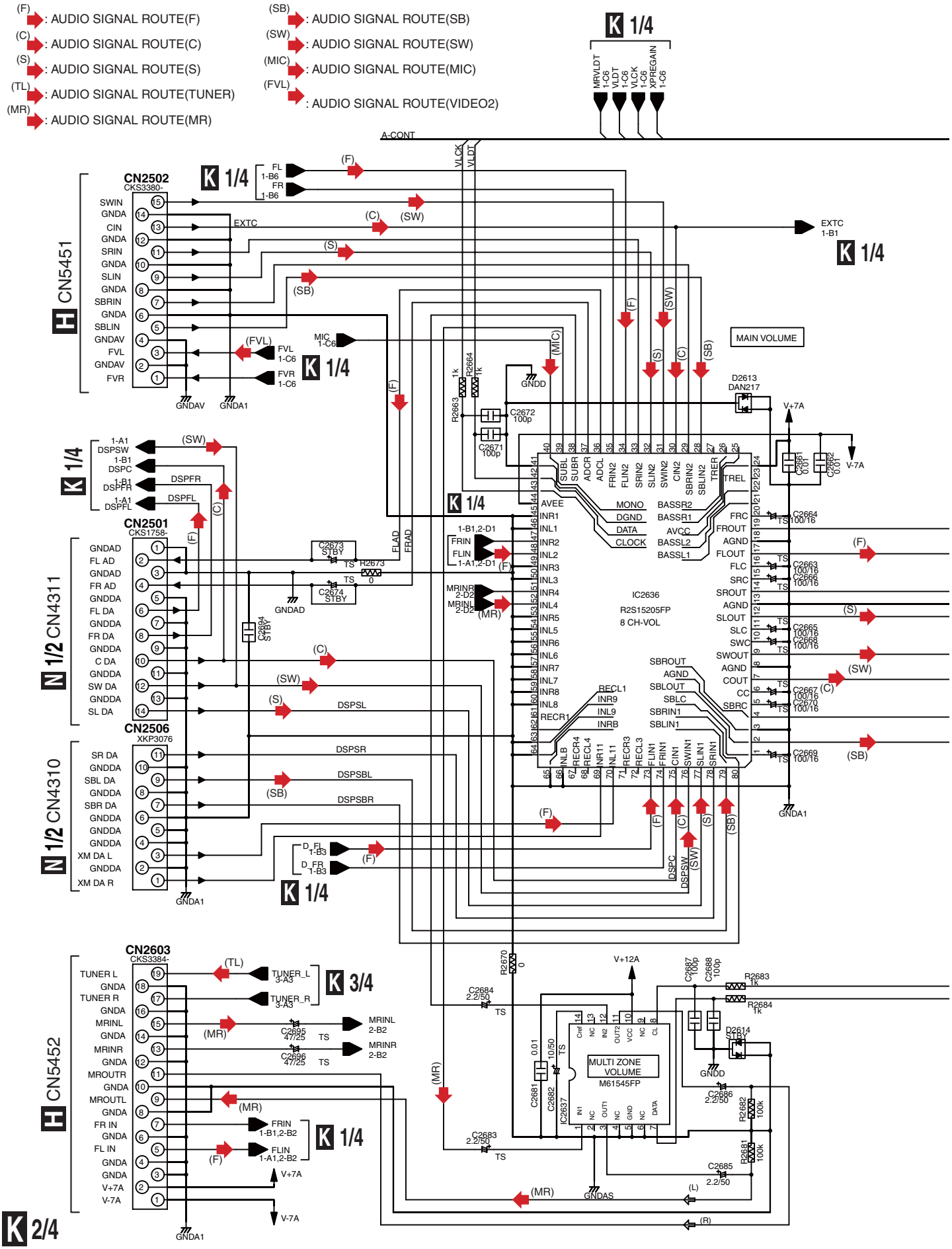


The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

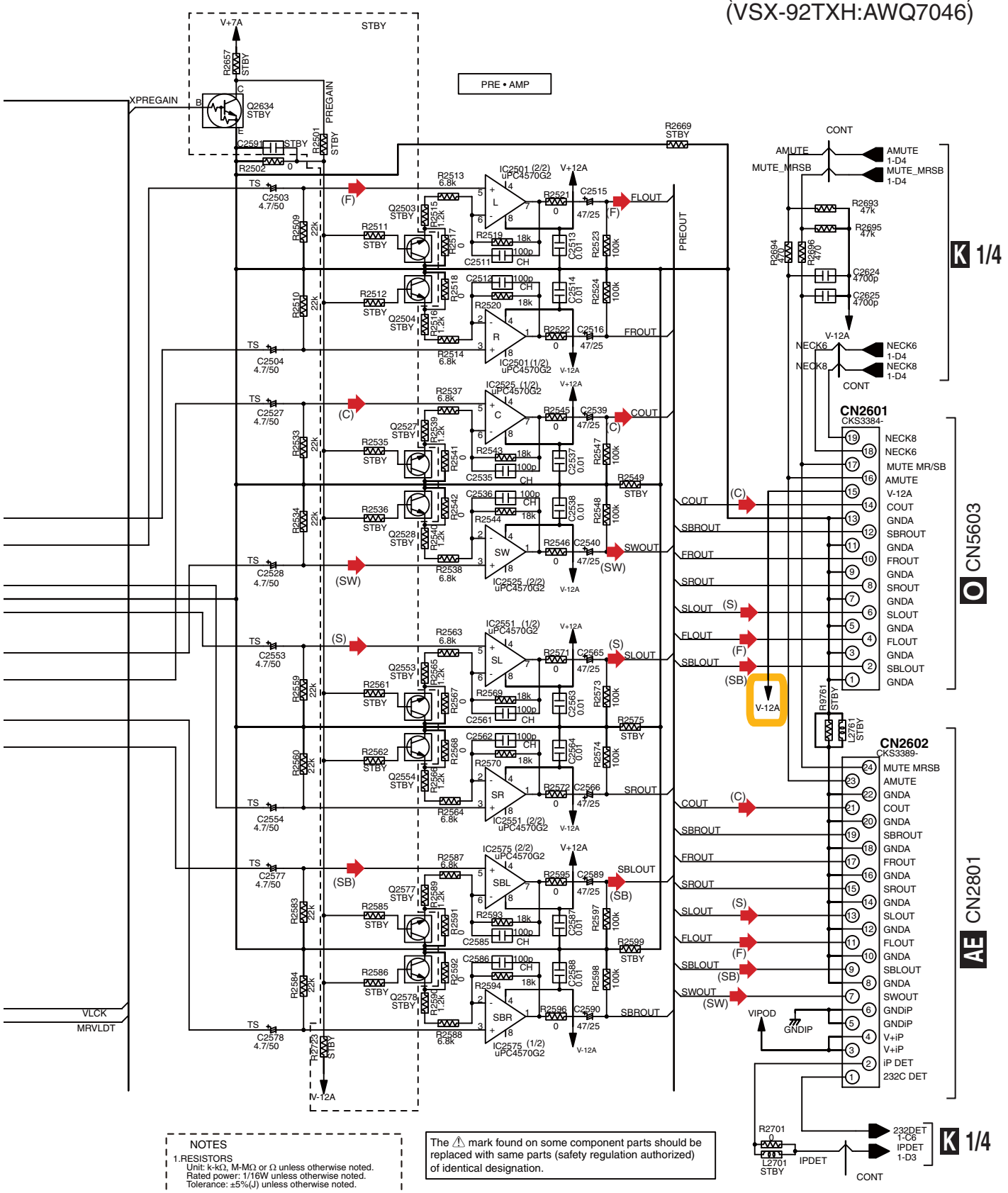
K 1/4 COMPONENT & VOL ASSY (VSX-94TXH:AWQ7041) (VSX-92TXH:AWQ7046)



10.8 COMPONENT & VOL ASSY (2/4)



K 2/4 COMPONENT & VOL ASSY (VSX-94TXH:AWQ7041) (VSX-92TXH:AWQ7046)



NOTES

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS352.

* Parts or parts block marked by "STBY" are standby.

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

10.9 COMPONENT & VOL ASSY (3/4)

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

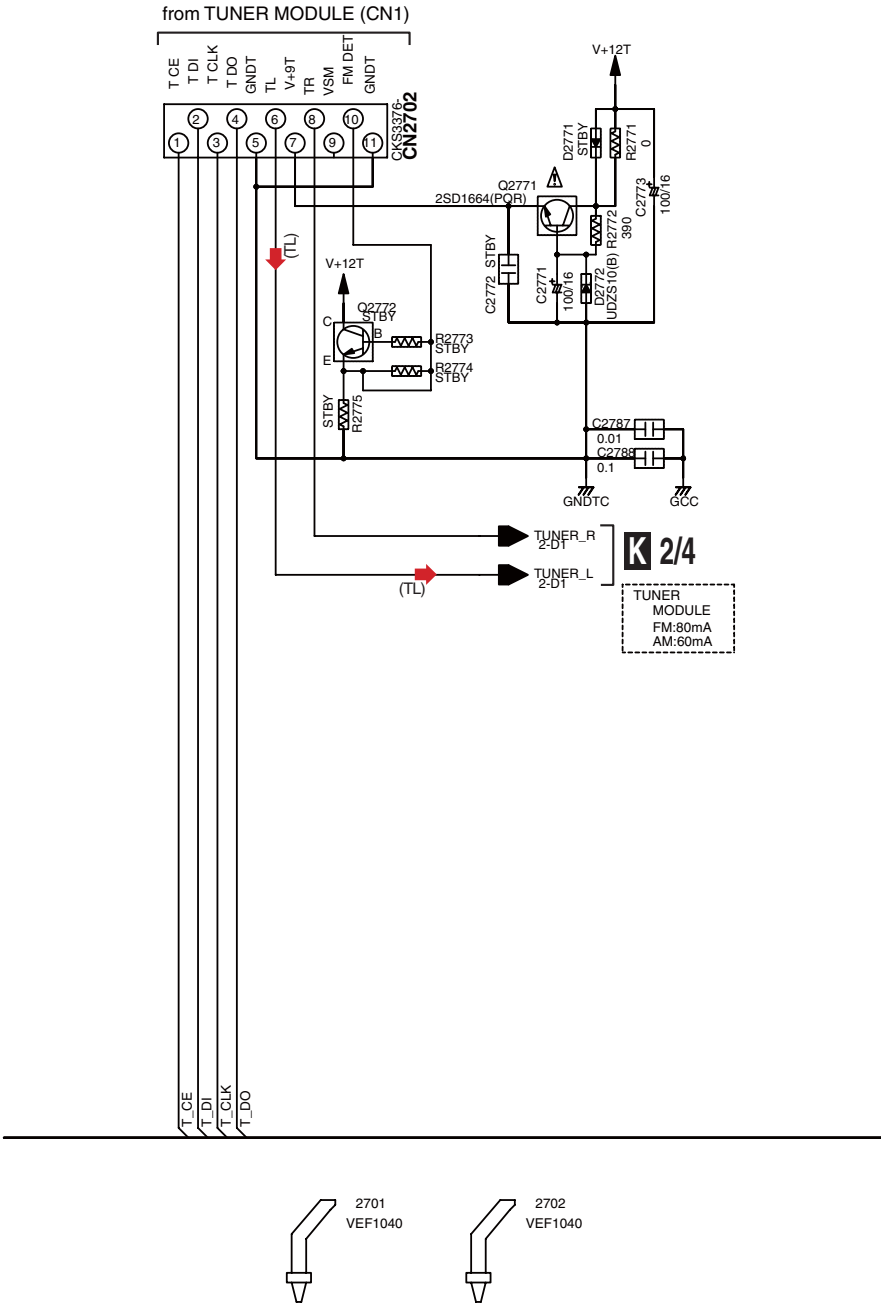
NOTES

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS352.

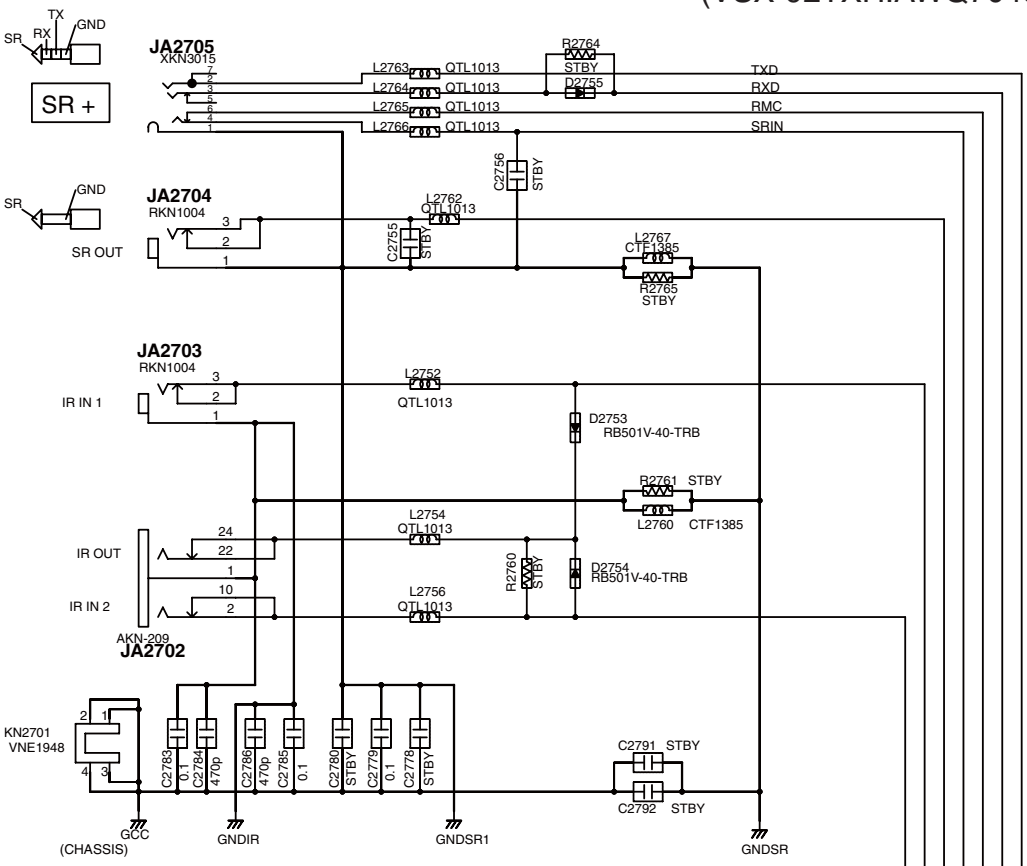
* Parts or parts block marked by "STBY" are standby.

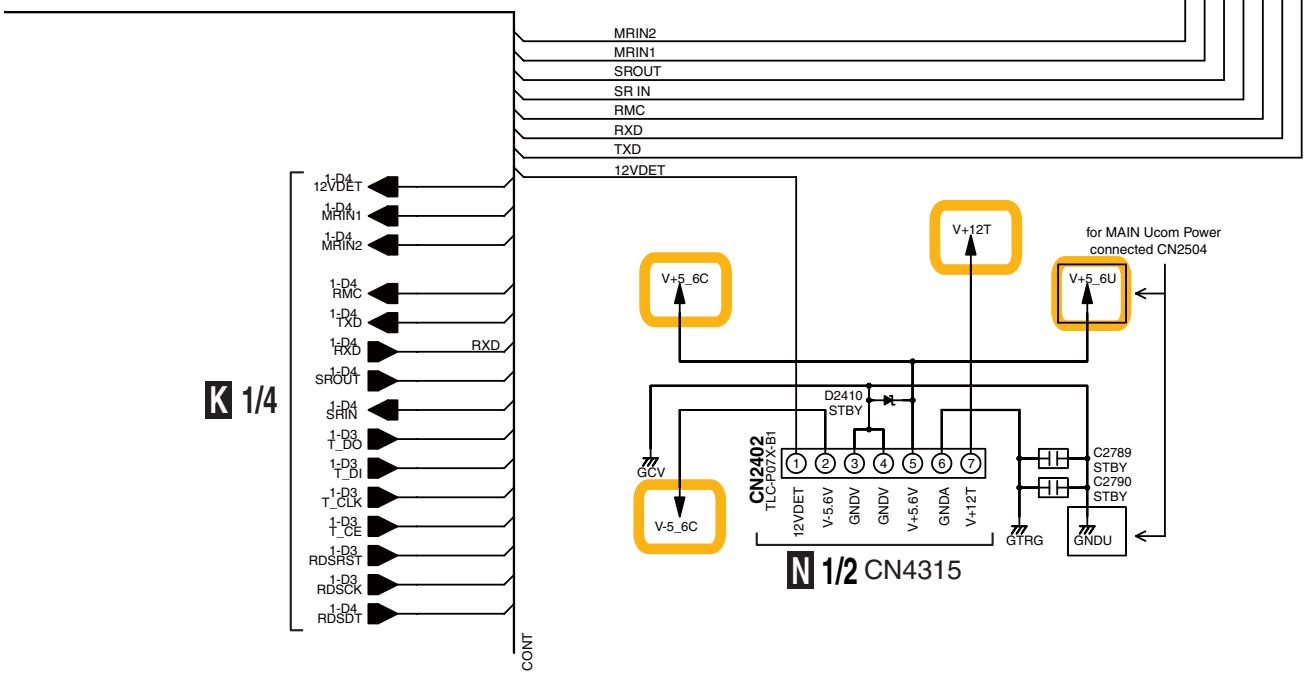


(TL) : AUDIO SIGNAL ROUTE(TUNER)

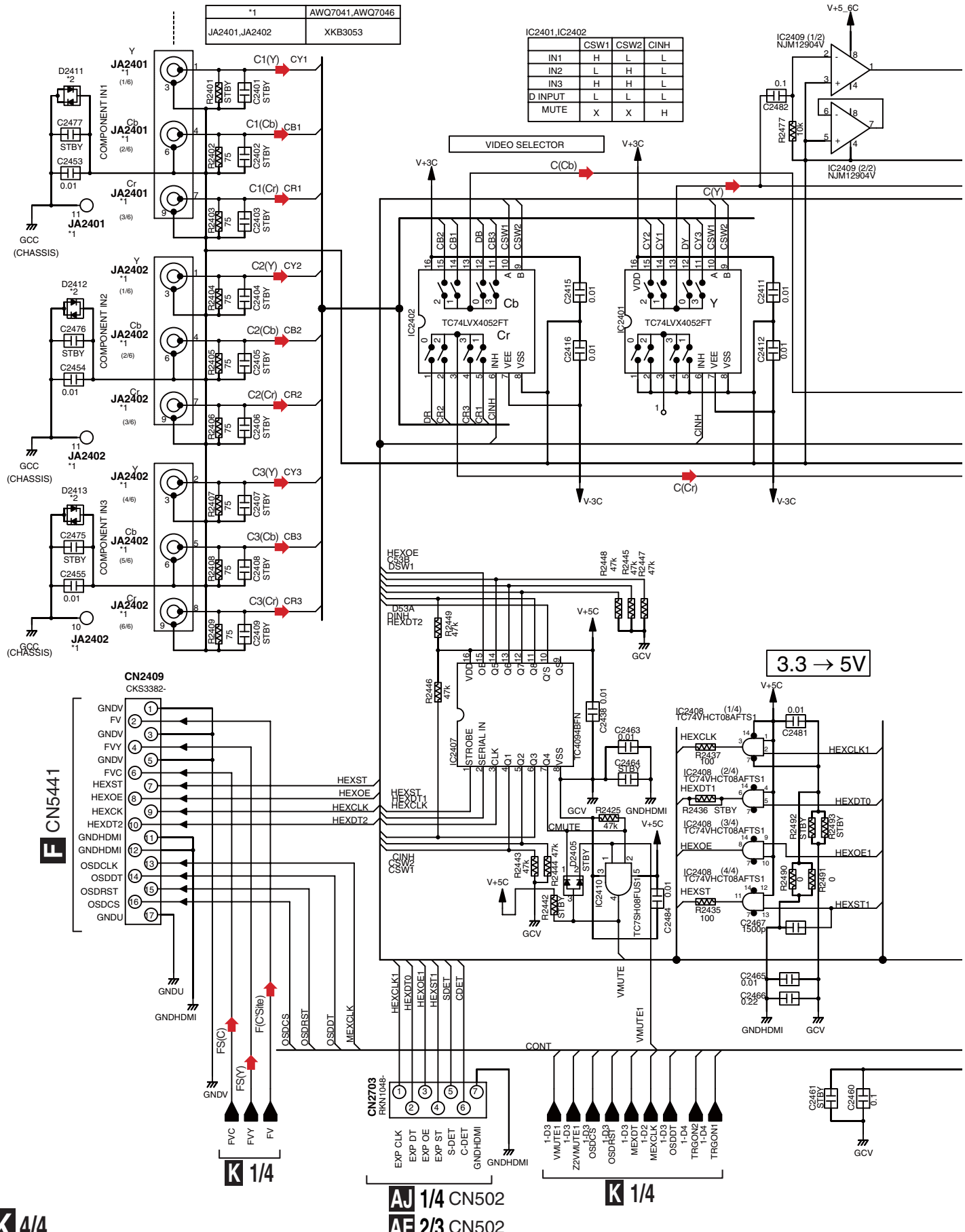
K 3/4

K 3/4 COMPONENT & VOL ASSY (VSX-94TXH:AWQ7041) (VSX-92TXH:AWQ7046)





10.10 COMPONENT & VOL ASSY (4/4)



K 4/4 COMPONENT & VOL ASSY (VSX-94TXH:AWQ7041) (VSX-92TXH:AWQ7046)

NOTES

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS352.

* Parts or parts block marked by "STBY" are standby.

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

*2	AWQ7041,AWQ7046
D2411-D2414	STBY
C2474	STBY

C DET

IC2404

	C53B	CINH
DVC	L	L
CNT/D	H	L
MUTE	X	H

IC2405 NJM2581M

COMPONENT OUT

JA2401 *1 (4/6) Y
JA2401 *1 (5/6) Cb
JA2401 *1 (6/6) Cr

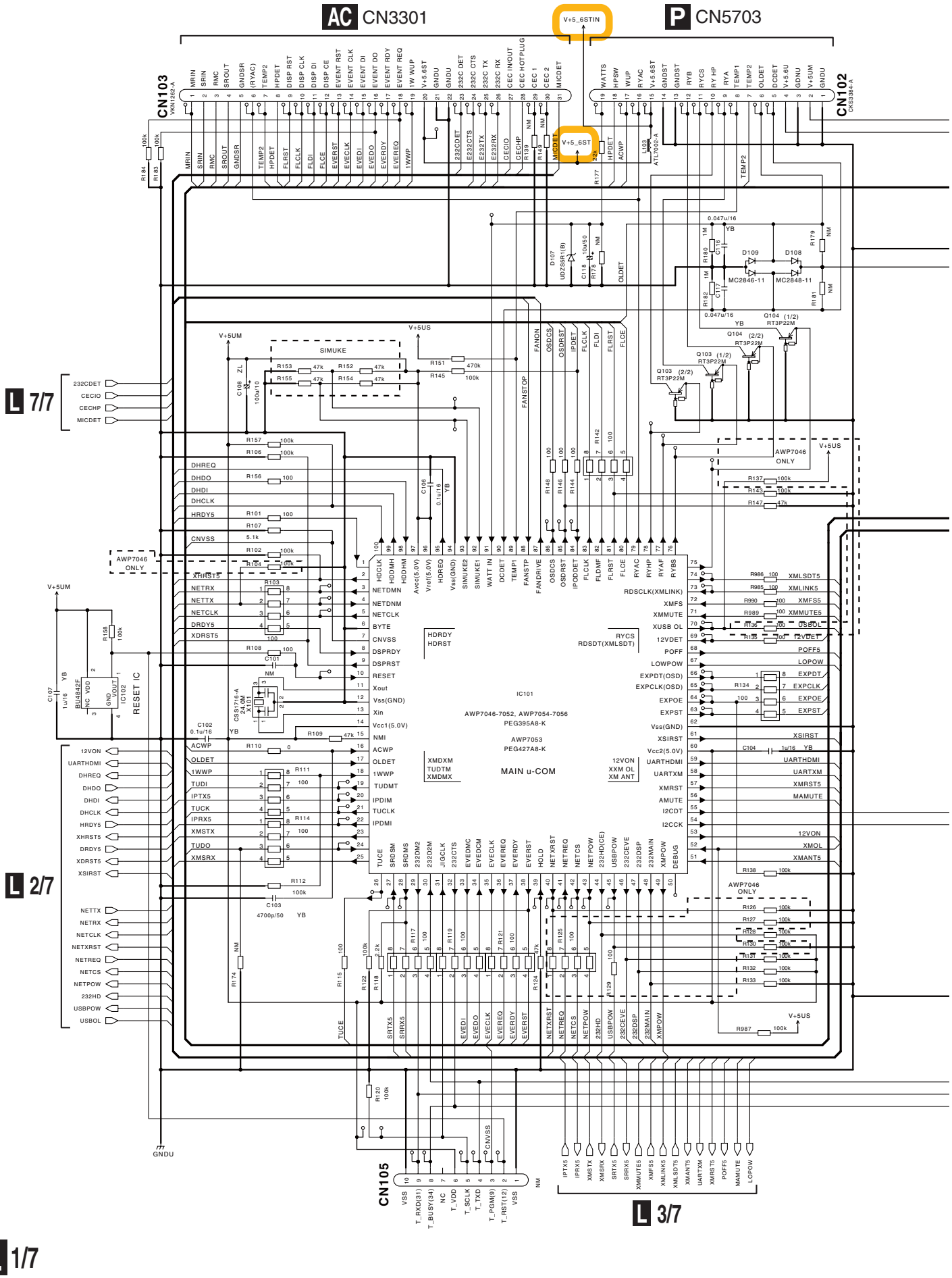
VIDEO AMP

C(Y) : VIDEO SIGNAL ROUTE C1(Y)
C1(Cb) : VIDEO SIGNAL ROUTE C1(Cb)
C1(Cr) : VIDEO SIGNAL ROUTE C1(Cr)
C2(Y) : VIDEO SIGNAL ROUTE C2(Y)
C2(Cb) : VIDEO SIGNAL ROUTE C2(Cb)
C2(Cr) : VIDEO SIGNAL ROUTE C2(Cr)
C3(Y) : VIDEO SIGNAL ROUTE C3(Y)
C3(Cb) : VIDEO SIGNAL ROUTE C3(Cb)
C3(Cr) : VIDEO SIGNAL ROUTE C3(Cr)

F(C'Site) : VIDEO SIGNAL ROUTE F(C'Site)
FS(C) : VIDEO SIGNAL ROUTE FS(C)
FS(Y) : VIDEO SIGNAL ROUTE FS(Y)
C(Y) : VIDEO SIGNAL ROUTE C(Y)
C(Cb) : VIDEO SIGNAL ROUTE C(Cb)
C(Cr) : VIDEO SIGNAL ROUTE C(Cr)
VC(Cr) : VIDEO SIGNAL ROUTE VC(Cr)
VC(Cb) : VIDEO SIGNAL ROUTE VC(Cb)
VC(Y) : VIDEO SIGNAL ROUTE VC(Y)

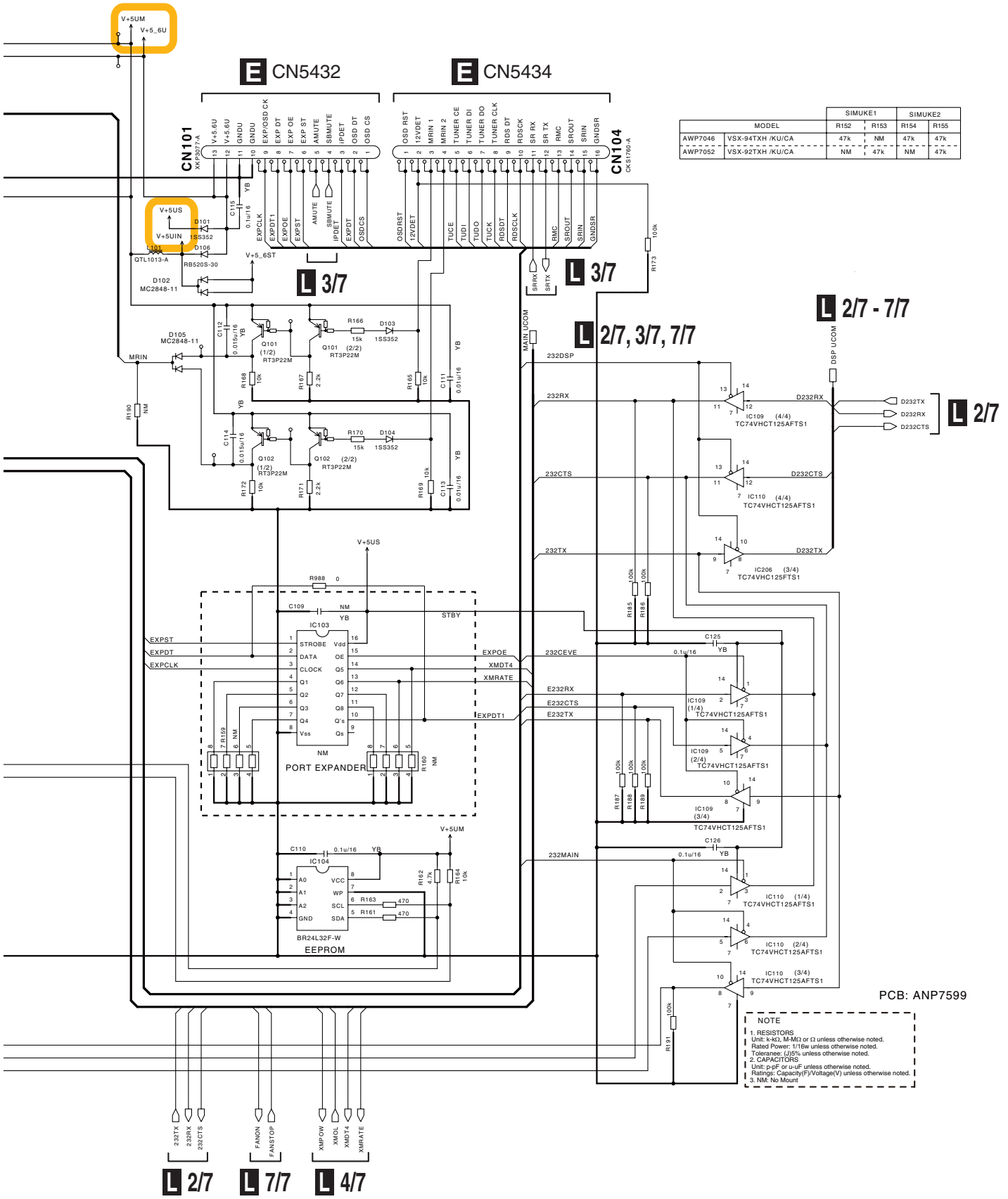
N 1/2 CN4314

10.11 DIGITAL MOTHER ASSY (1/7)

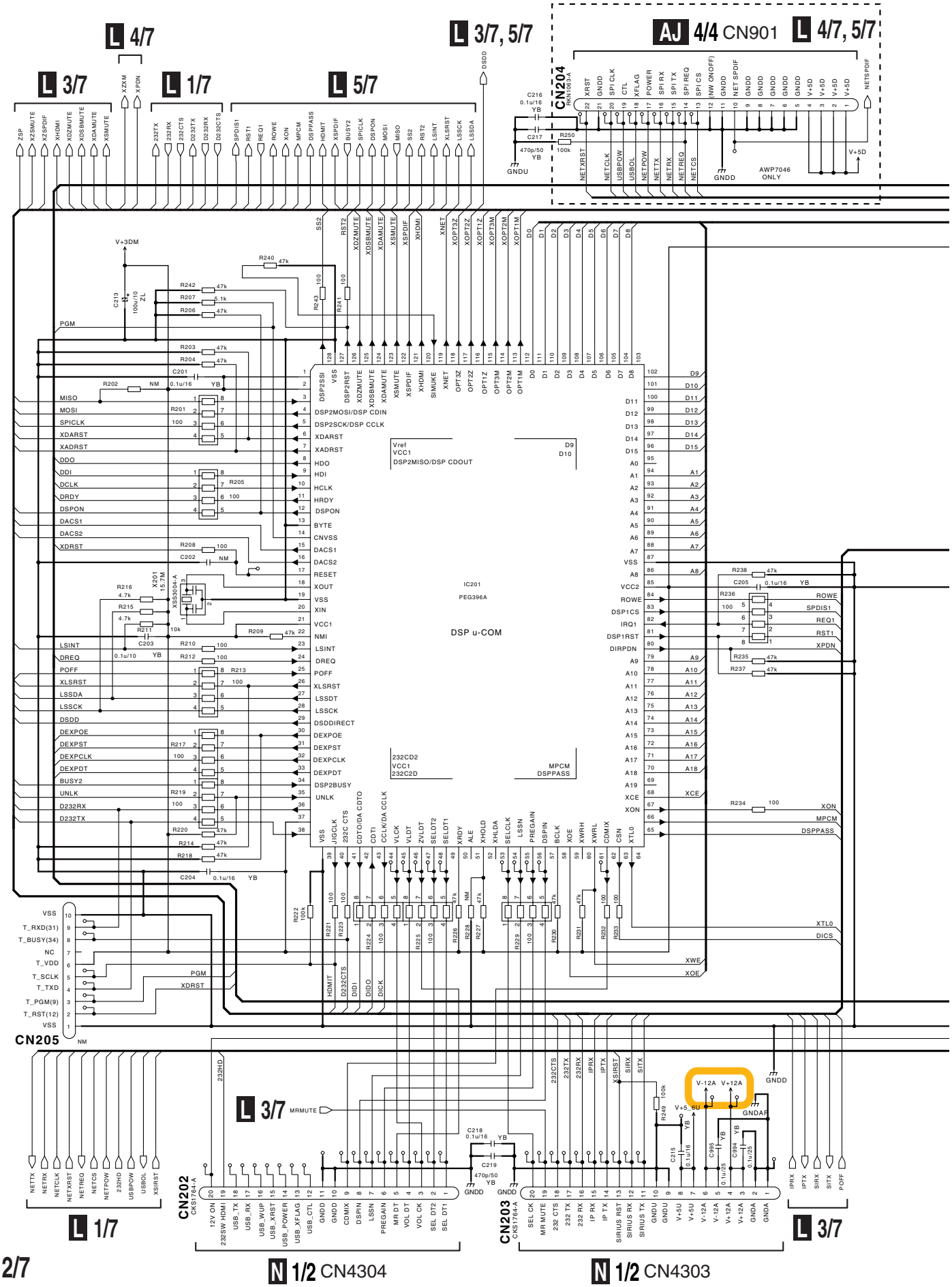


L 1/7 DIGITAL MOTHER ASSY (VSX-94TXH:AWP7046) (VSX-92TXH:AWP7052)

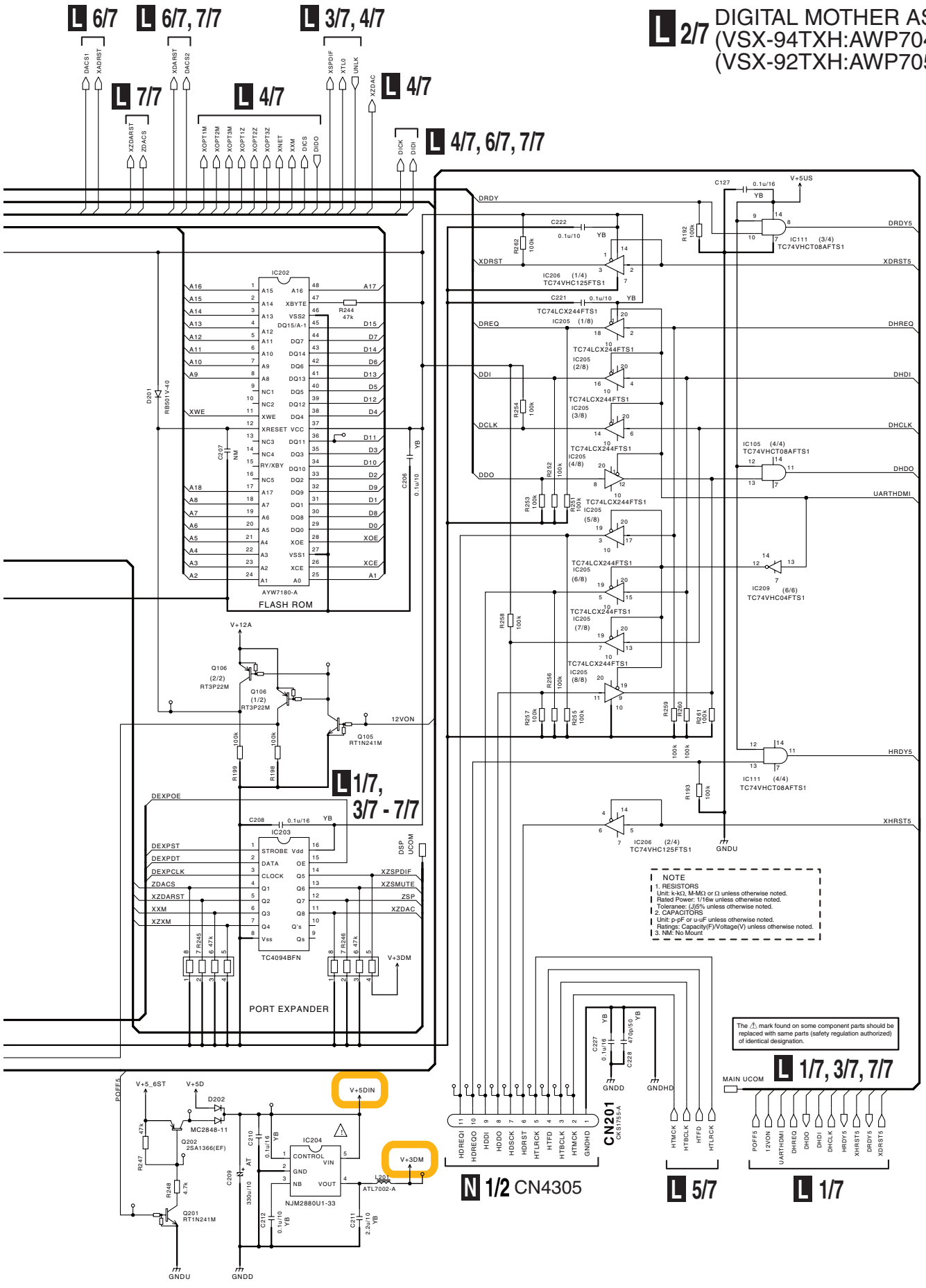
MODEL		SIMUKE1 R152	SIMUKE1 R153	SIMUKE2 R154	SIMUKE2 R155
AWP7046	VSX-94TXH /KU/CA	47k	NM	47k	47k
AWP7052	VSX-92TXH /KU/CA	NM	47k	NM	47k



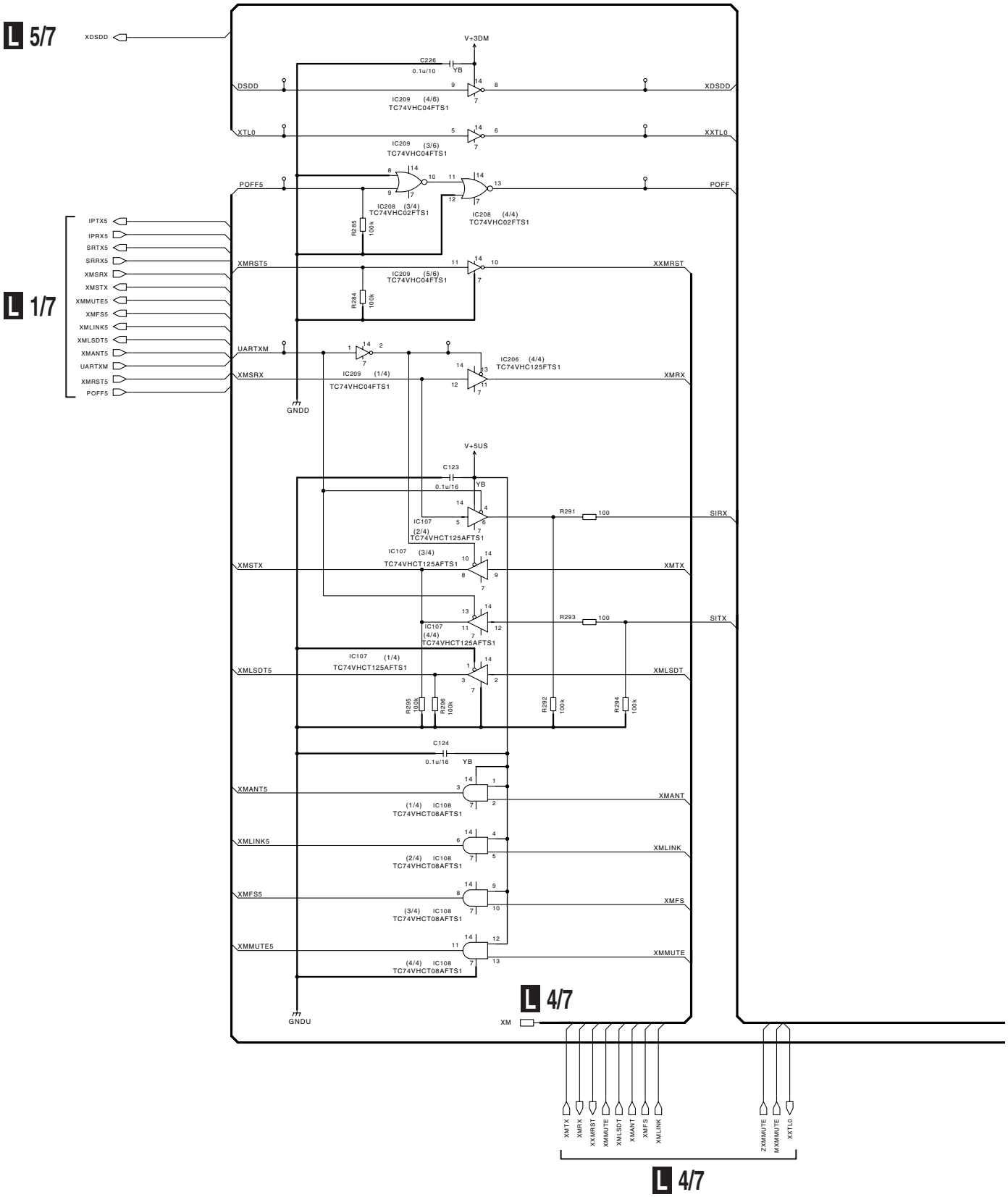
10.12 DIGITAL MOTHER ASSY (2/7)



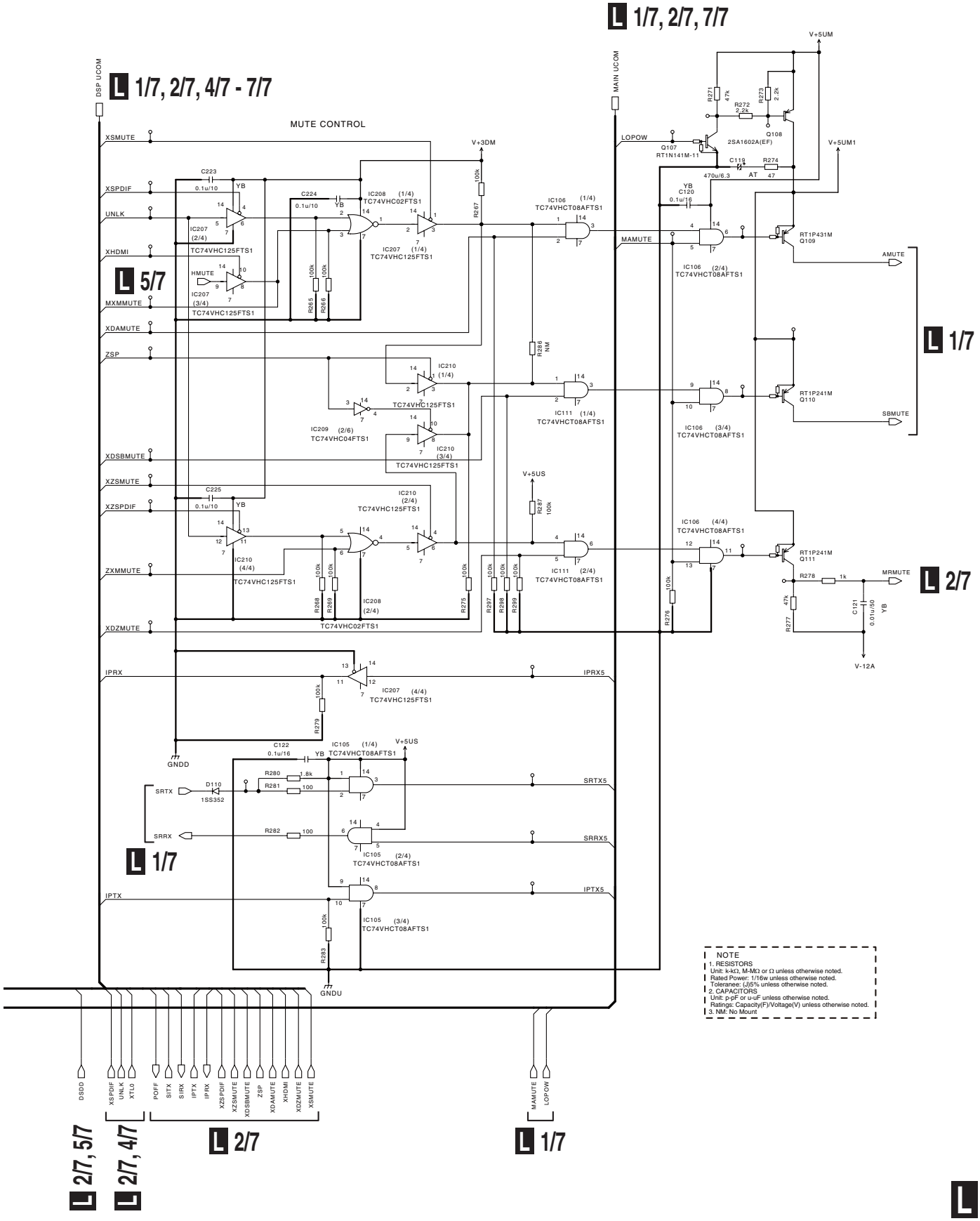
L 2/7 DIGITAL MOTHER ASSY (VSX-94TXH:AWP7046) (VSX-92TXH:AWP7052)



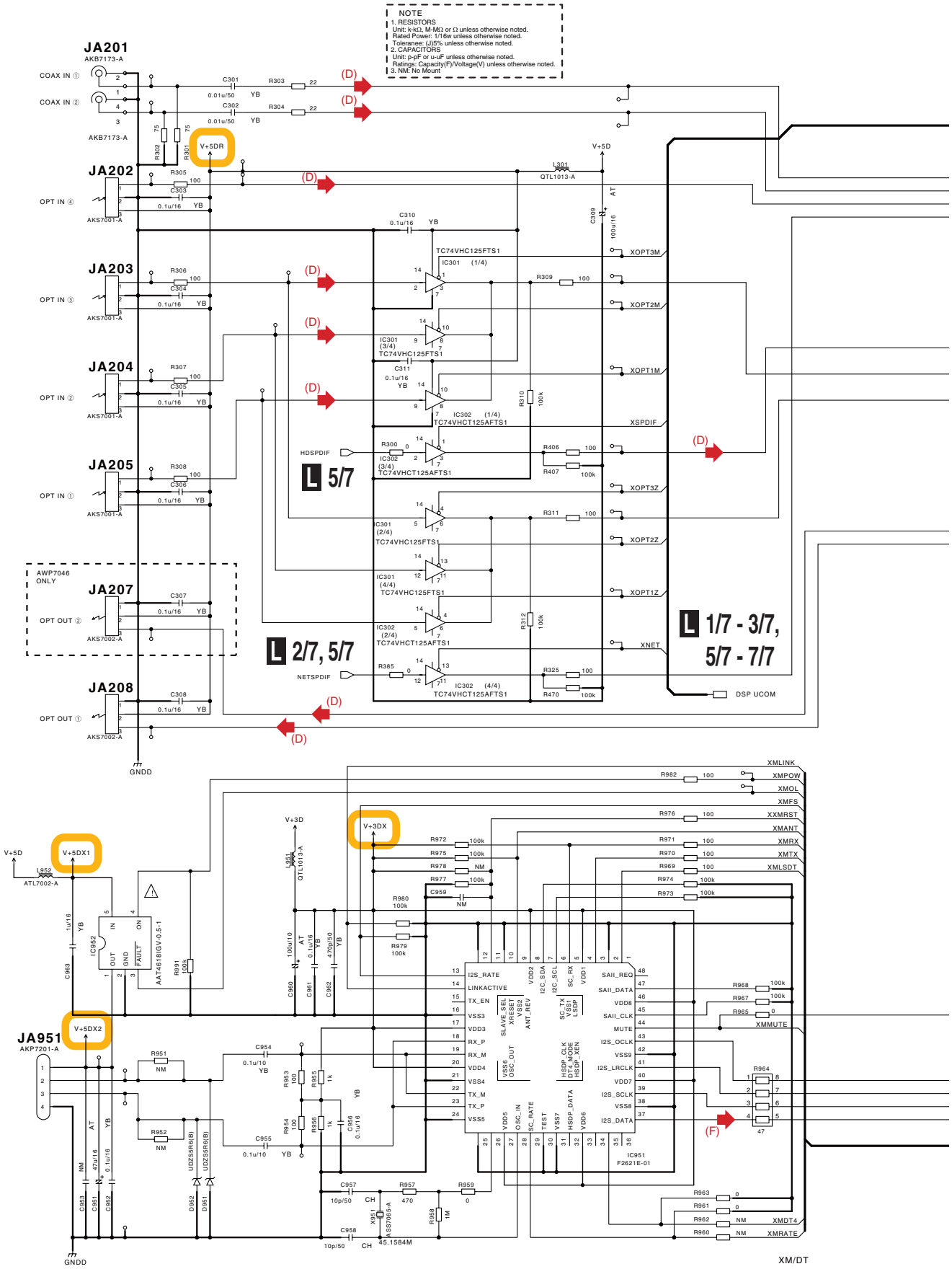
10.13 DIGITAL MOTHER ASSY (3/7)



L 3/7 DIGITAL MOTHER ASSY (VSX-94TXH:AWP7046) (VSX-92TXH:AWP7052)

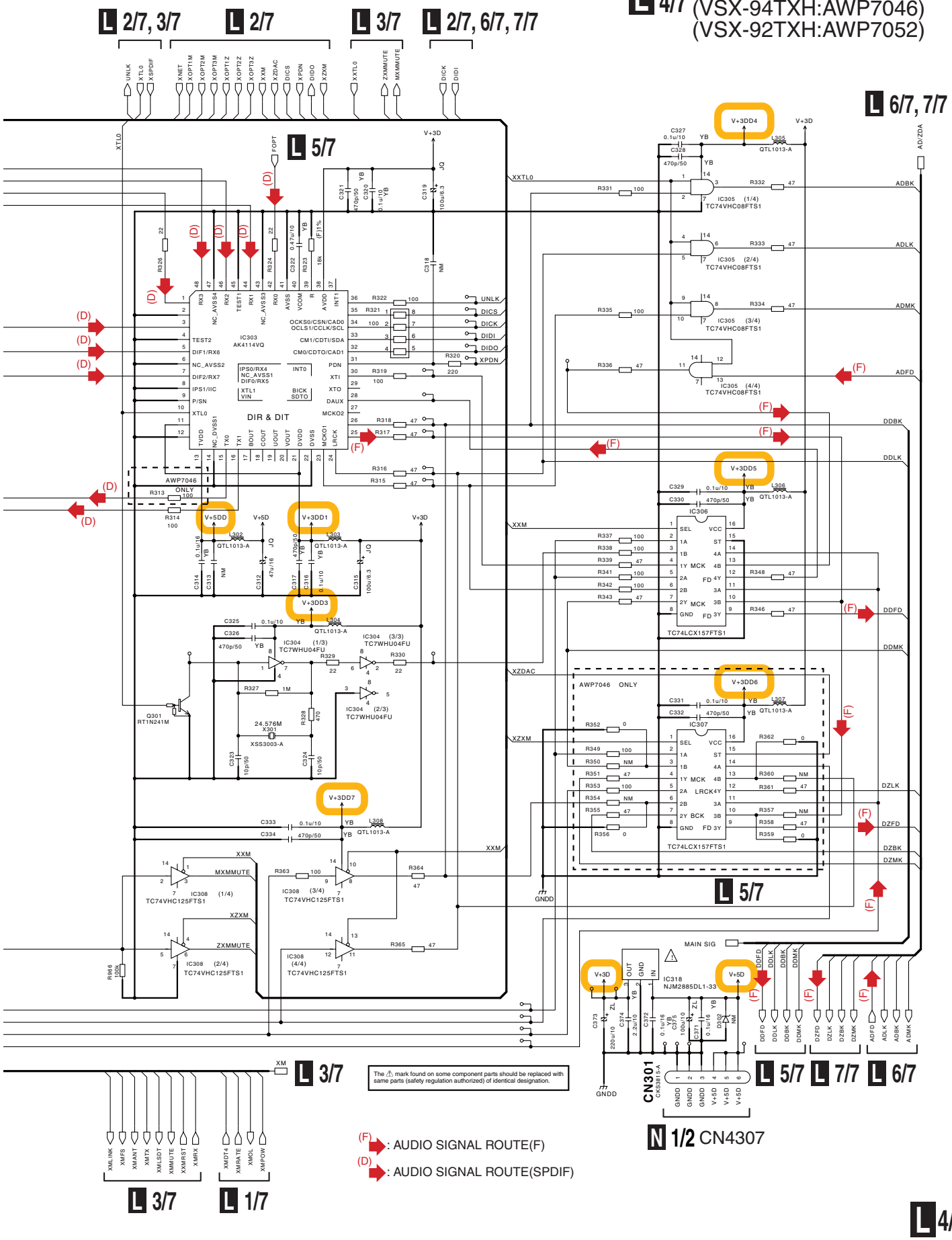


10.14 DIGITAL MOTHER ASSY (4/7)

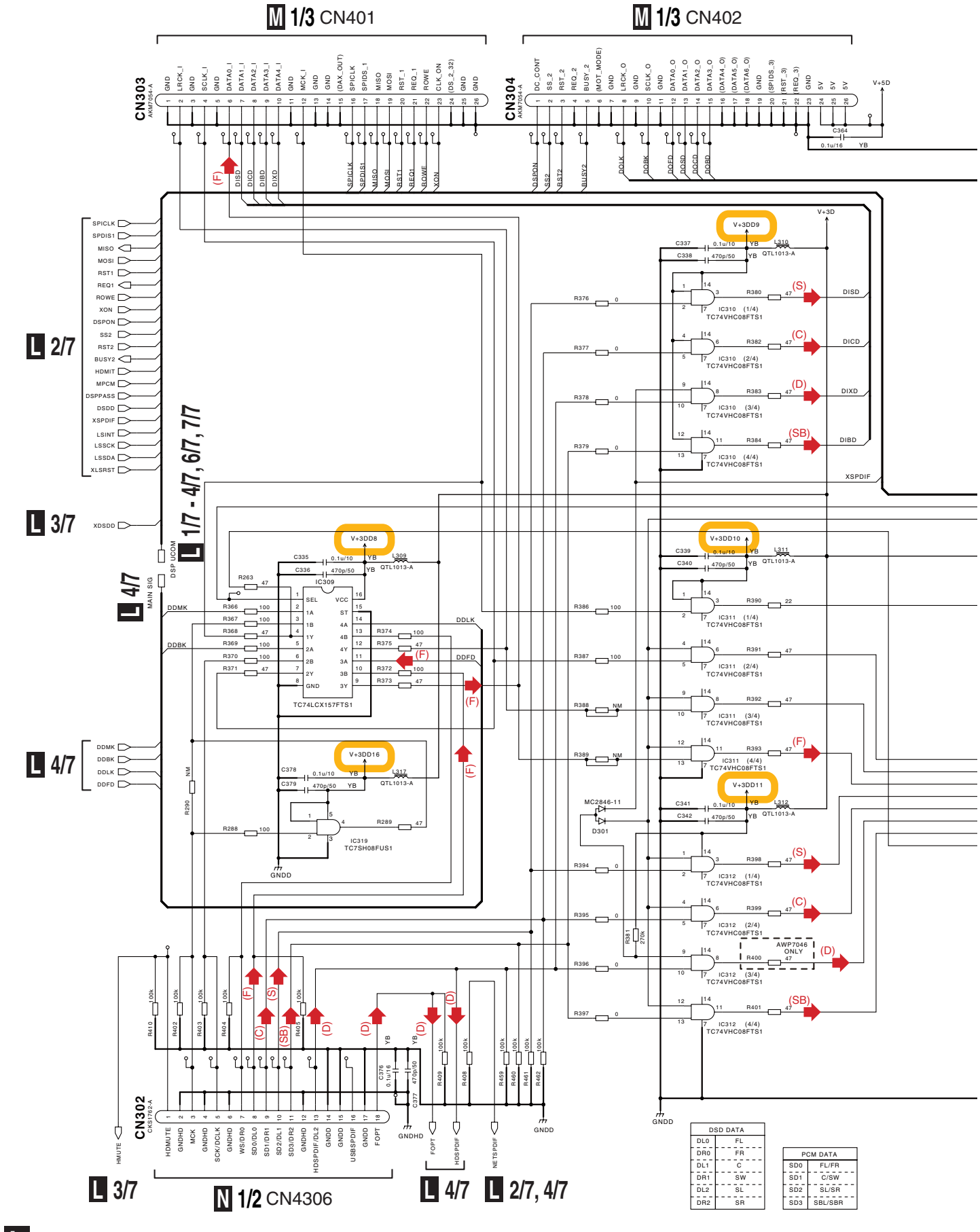


L 4/7

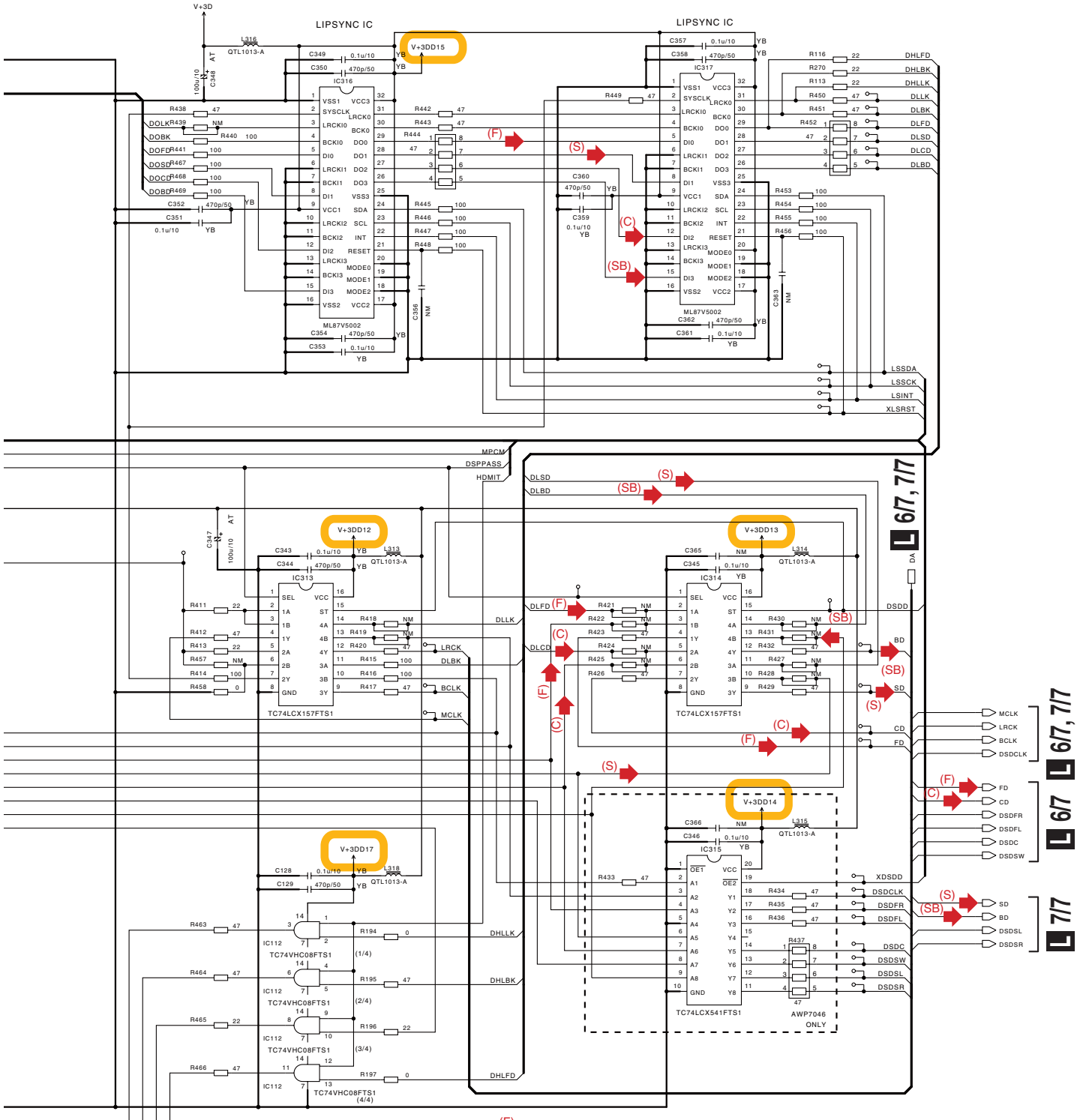
L 4/7 DIGITAL MOTHER ASSY (VSX-94TXH:AWP7046) (VSX-92TXH:AWP7052)



10.15 DIGITAL MOTHER ASSY (5/7)



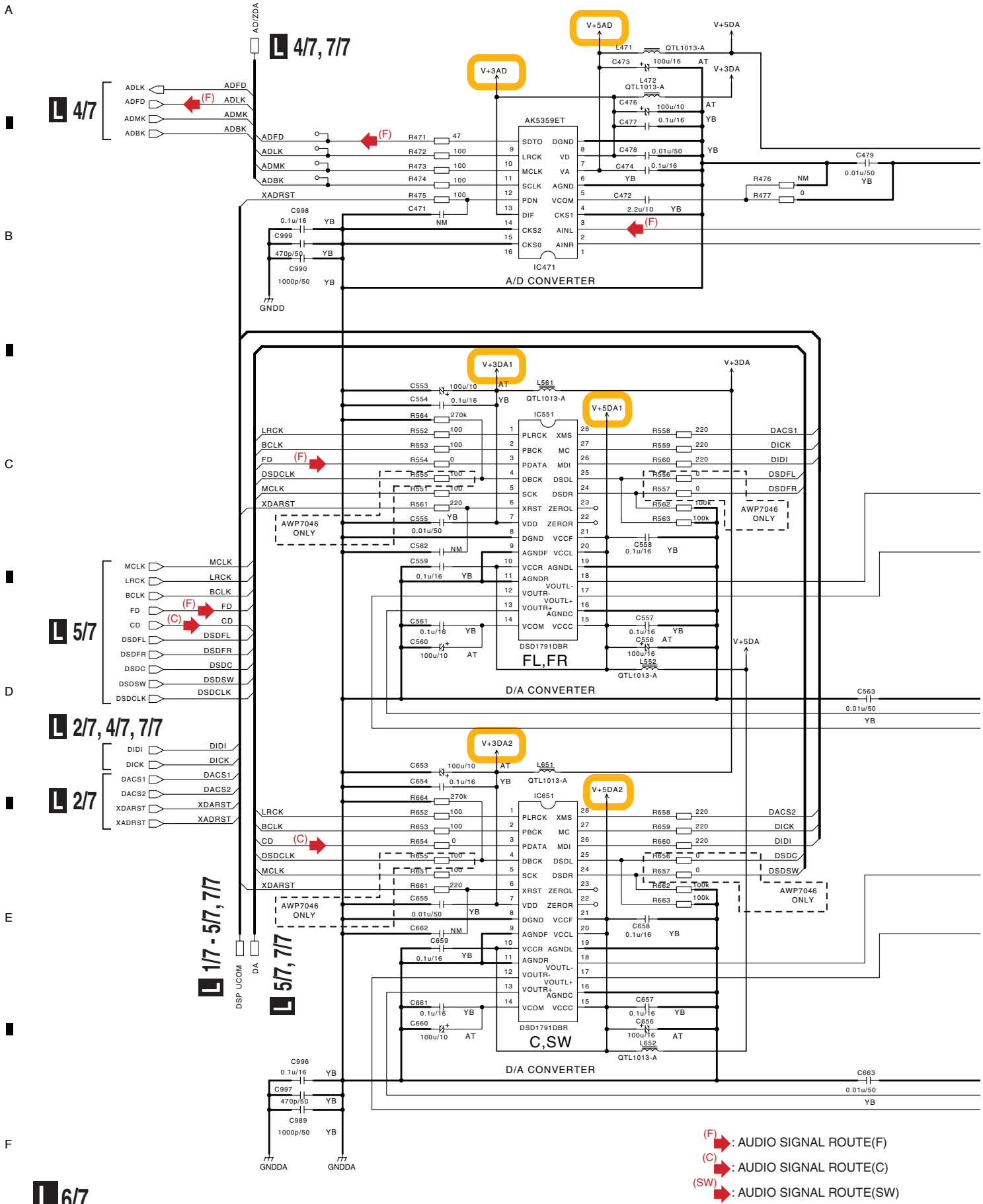
L 5/7 DIGITAL MOTHER ASSY (VSX-94TXH:AWP7046) (VSX-92TXH:AWP7052)



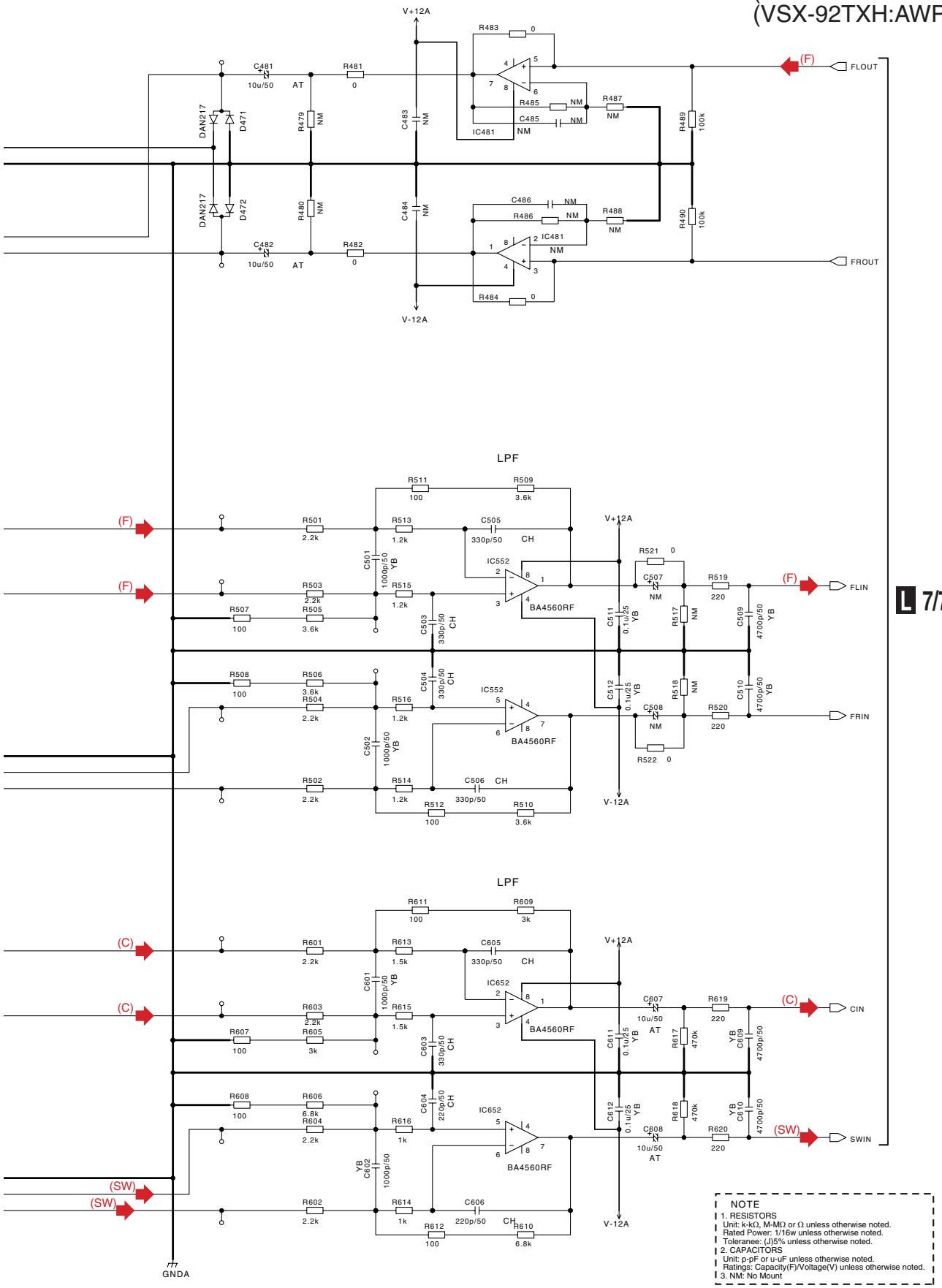
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

(F): AUDIO SIGNAL ROUTE(F)
(C): AUDIO SIGNAL ROUTE(C)
(S): AUDIO SIGNAL ROUTE(S)
(SB): AUDIO SIGNAL ROUTE(SB)
(D): AUDIO SIGNAL ROUTE(D)

10.16 DIGITAL MOTHER ASSY (6/7)

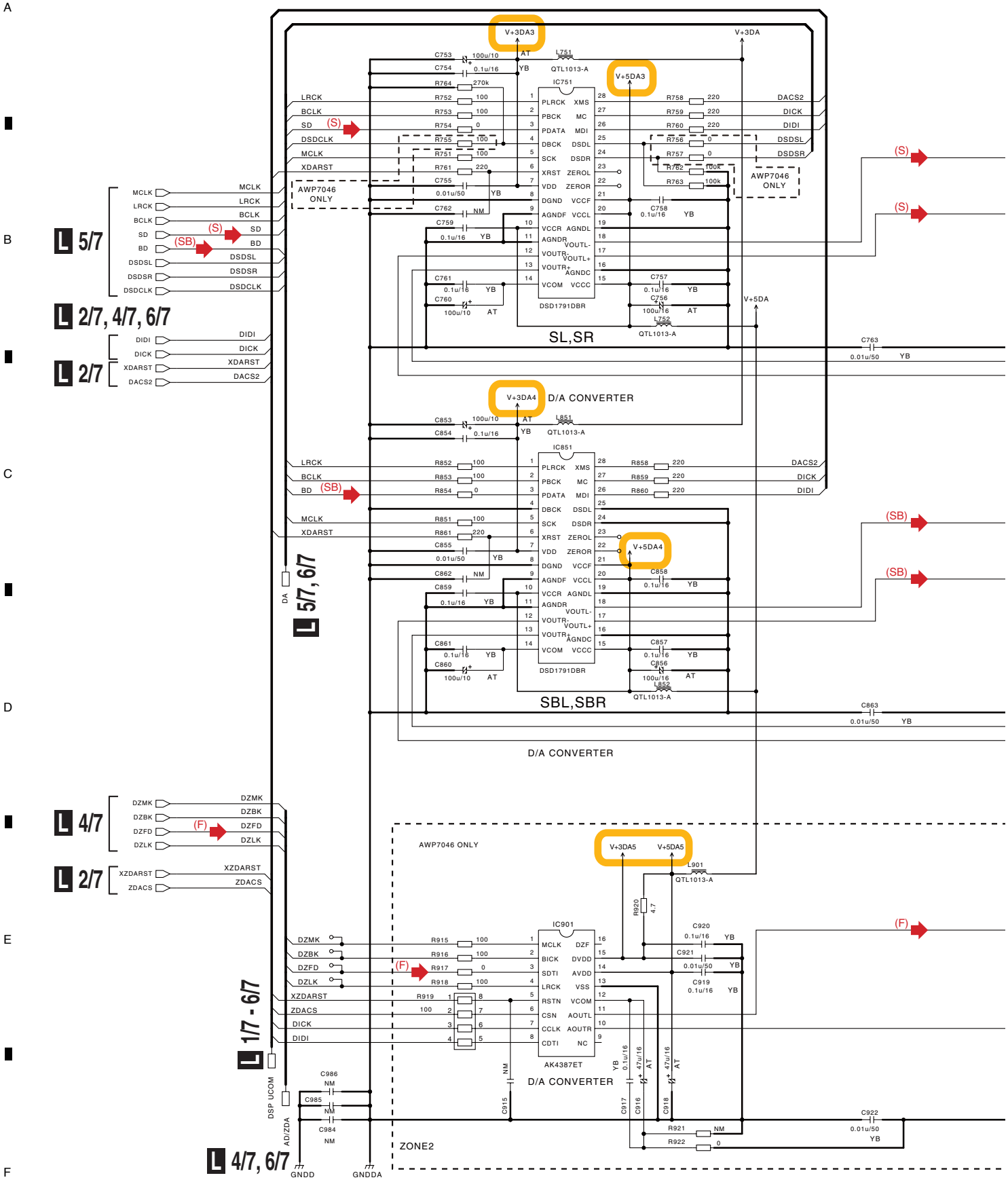


L 6/7 DIGITAL MOTHER ASSY (VSX-94TXH:AWP7046) (VSX-92TXH:AWP7052)



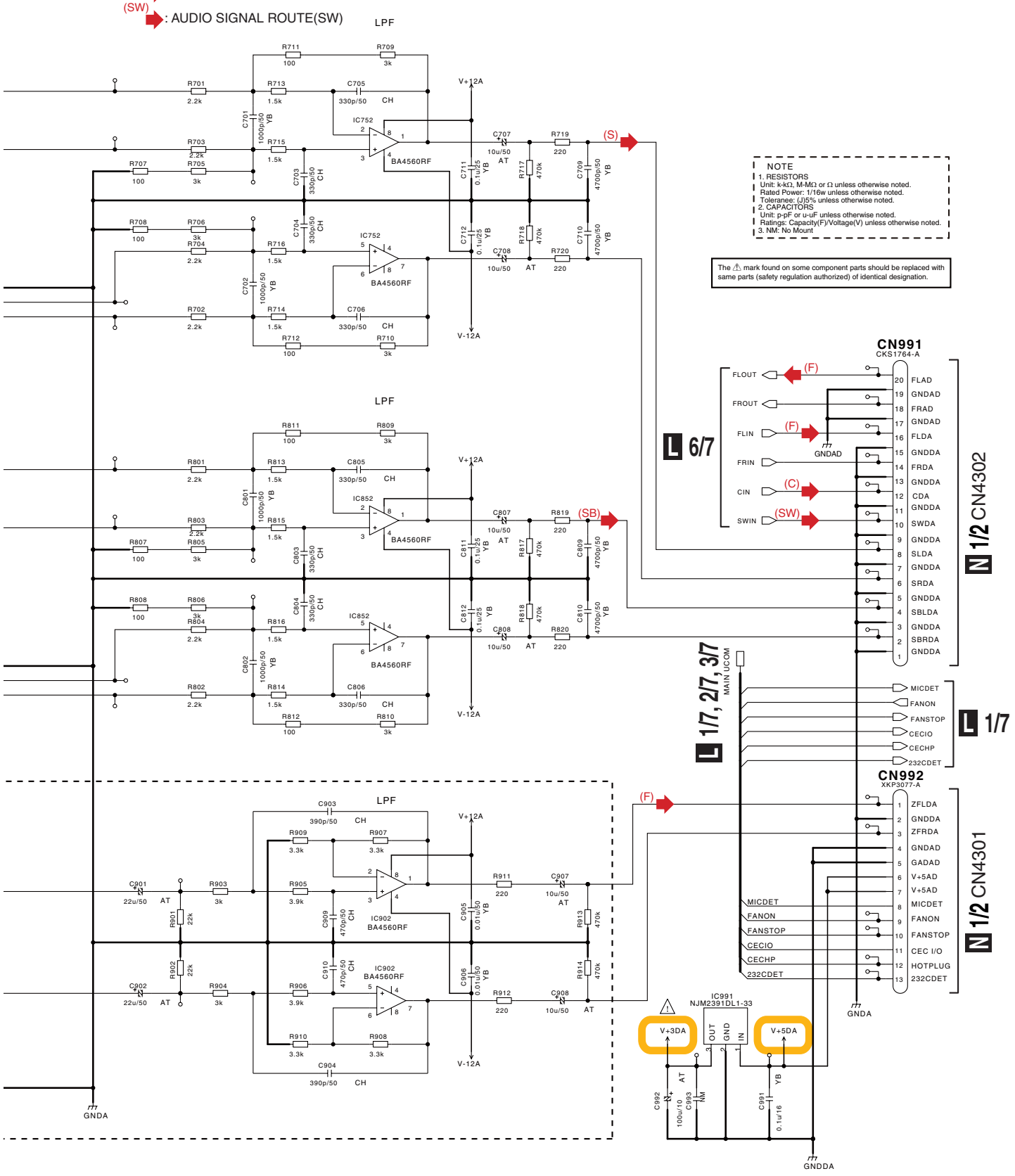
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

10.17 DIGITAL MOTHER ASSY (7/7)



L 7/7 DIGITAL MOTHER ASSY (VSX-94TXH:AWP7046) (VSX-92TXH:AWP7052)

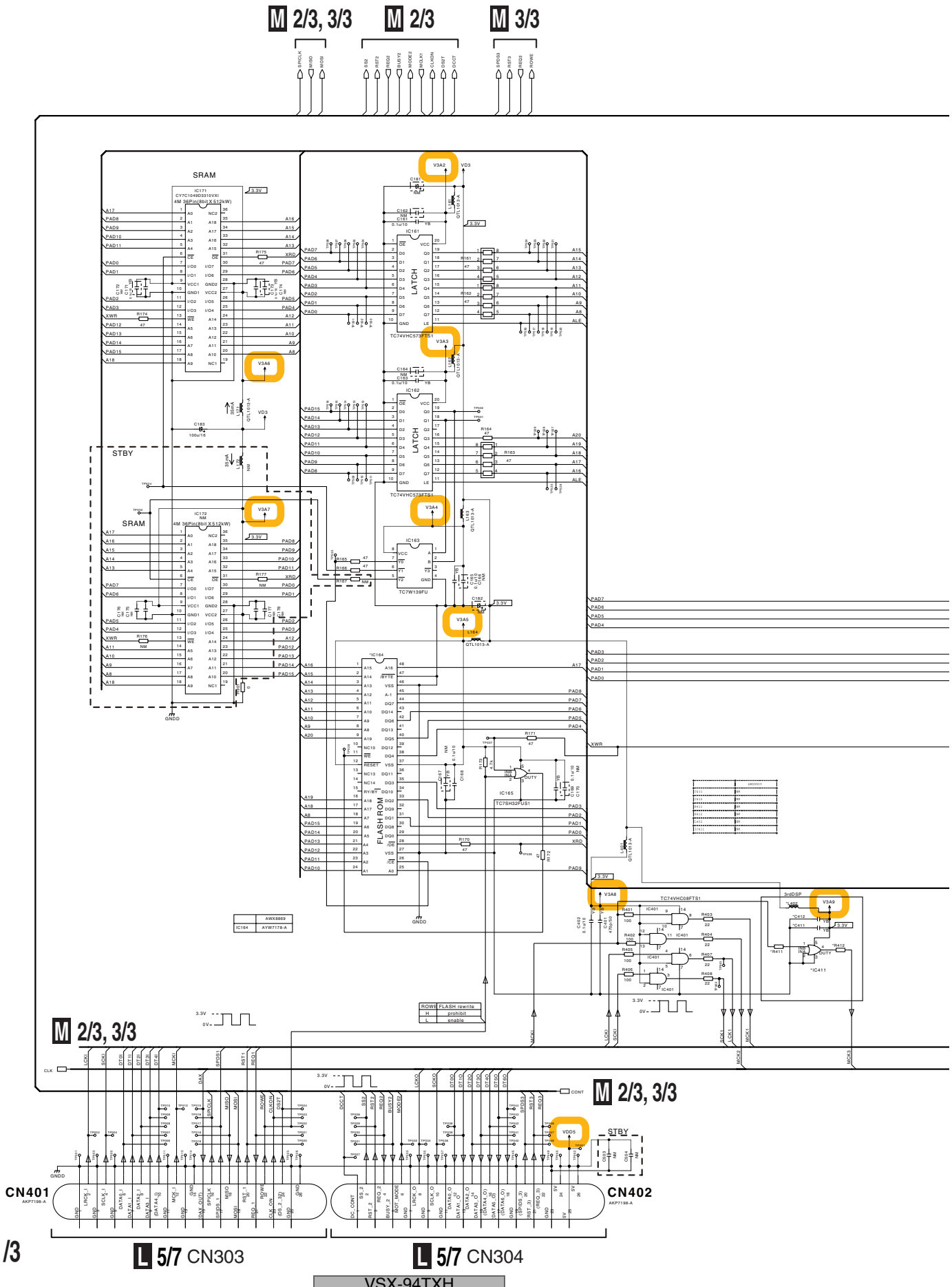
(F) : AUDIO SIGNAL ROUTE(F)
(S) : AUDIO SIGNAL ROUTE(S)
(SB) : AUDIO SIGNAL ROUTE(SB)
(SW) : AUDIO SIGNAL ROUTE(SW)

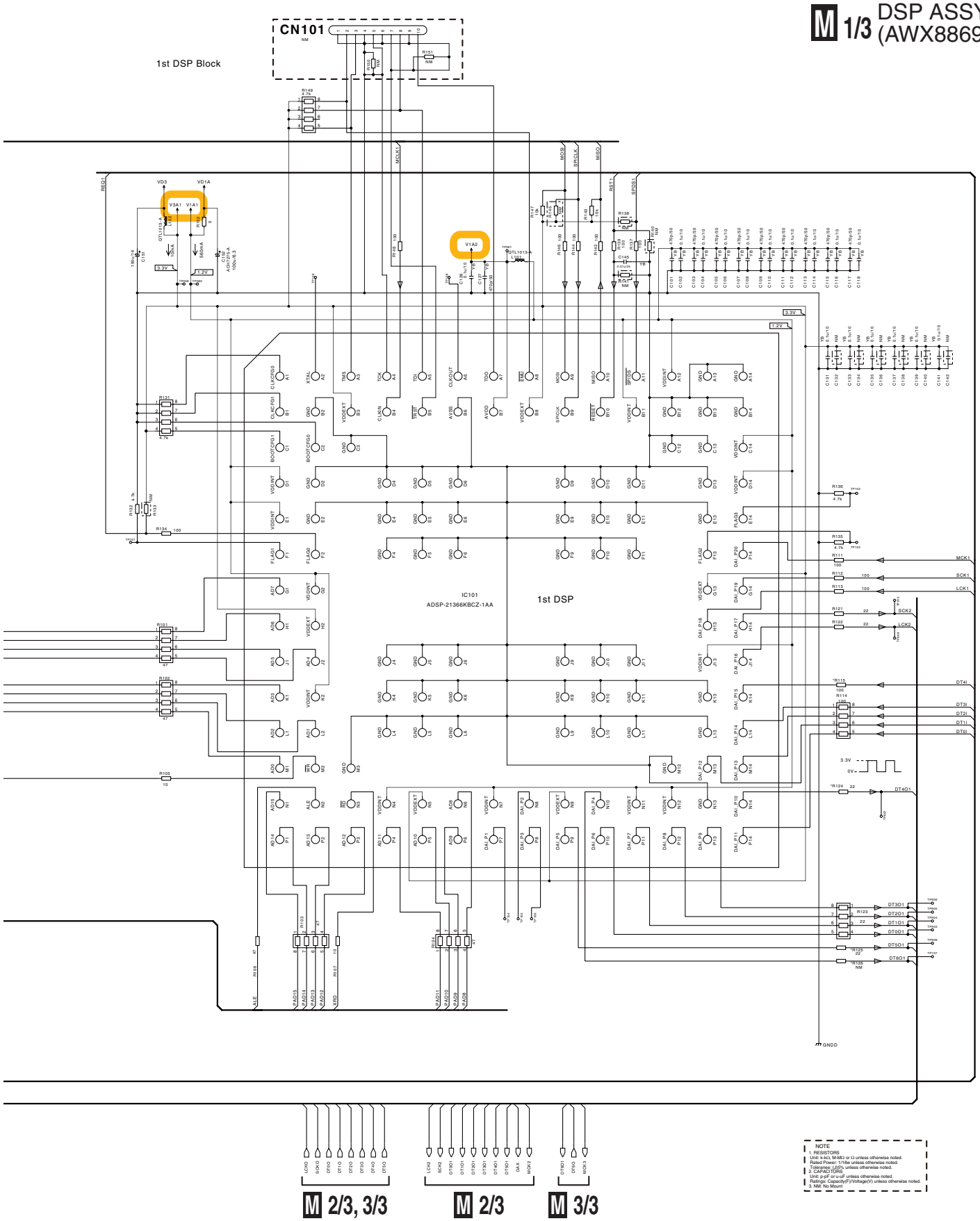


NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

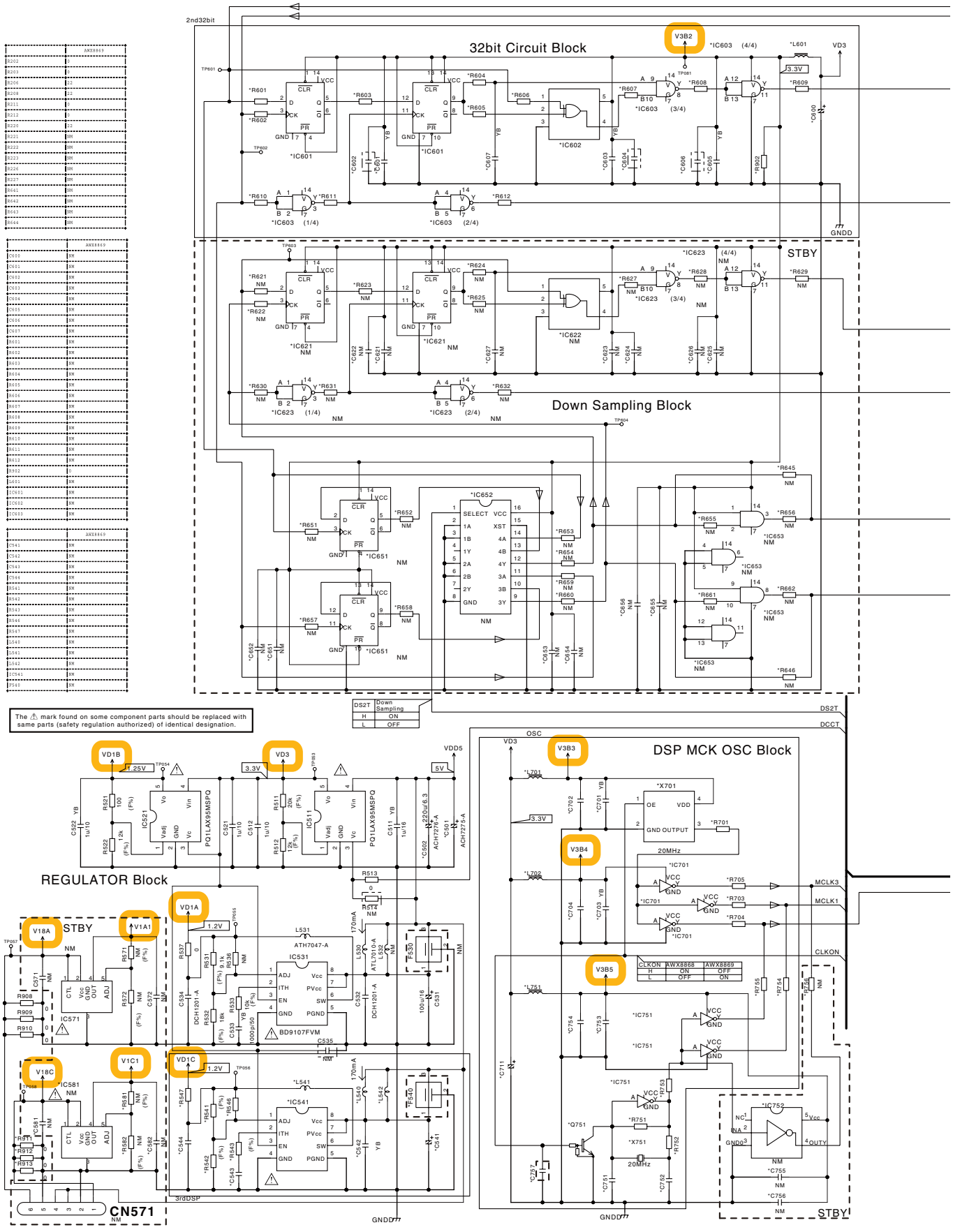
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

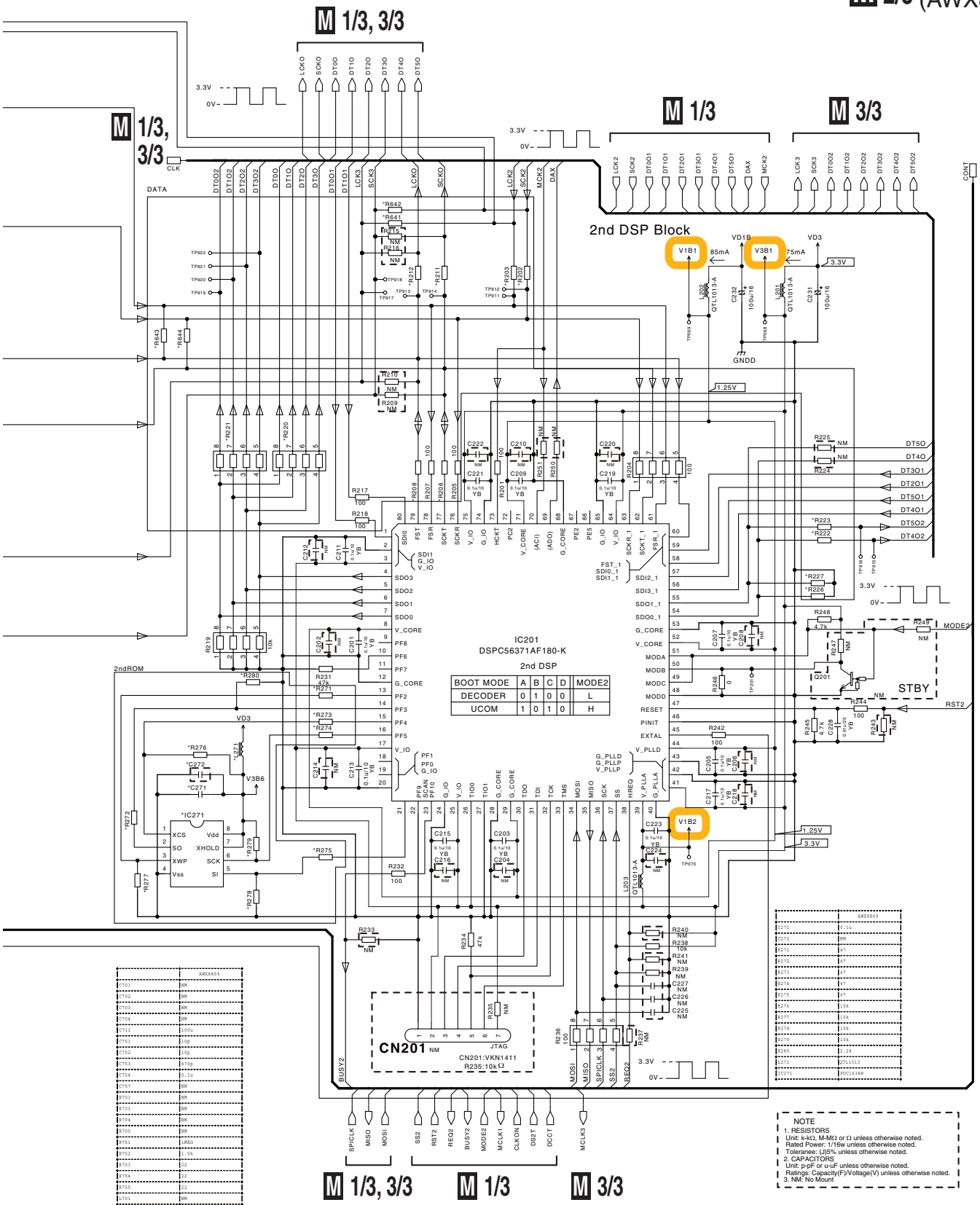
10.18 DSP ASSY (1/3)



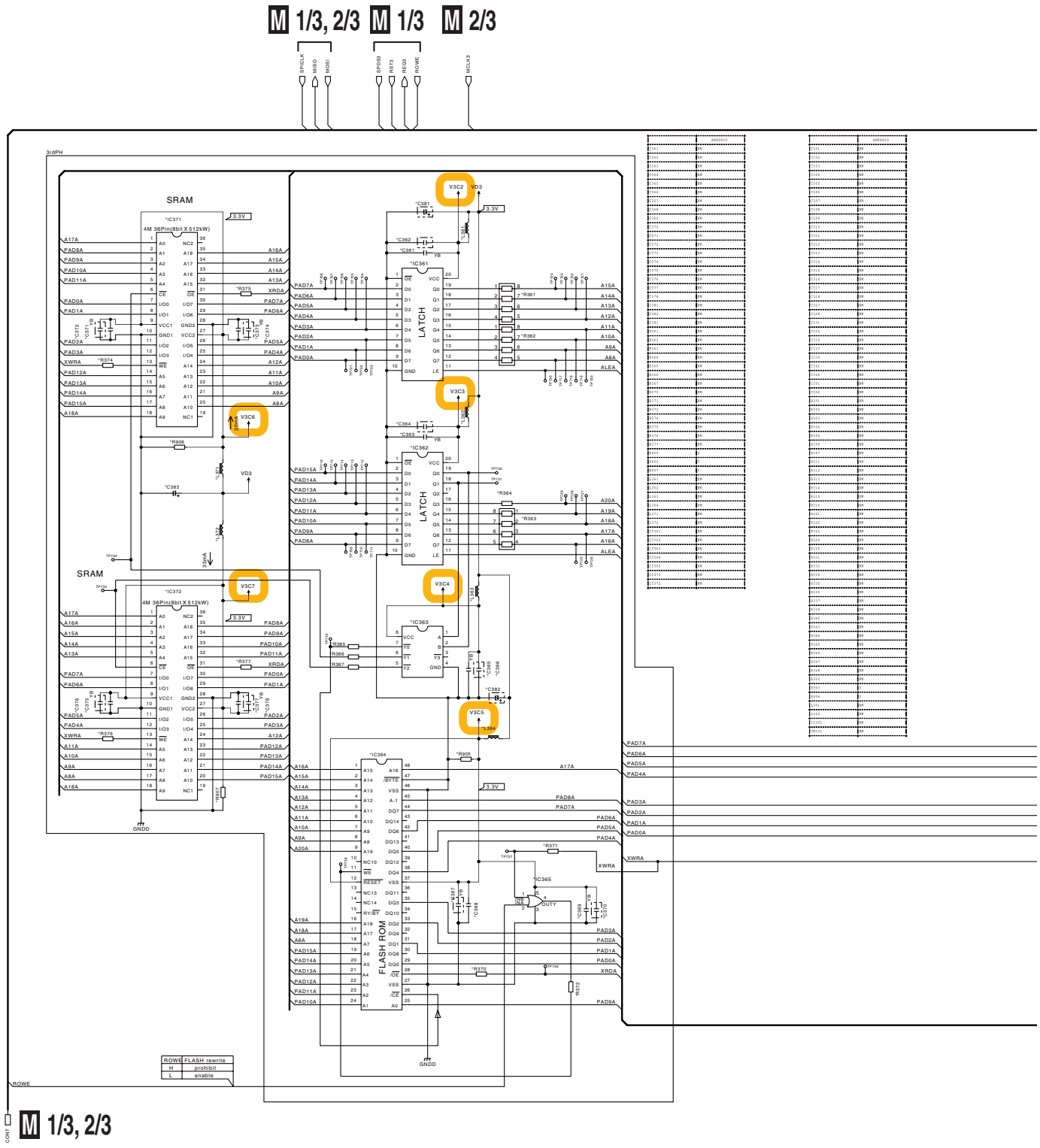

1st DSP Block
CN101
IC101
ADSP-21366KBCZ-1AA
1st DSP
M 2/3, 3/3
M 2/3
M 3/3

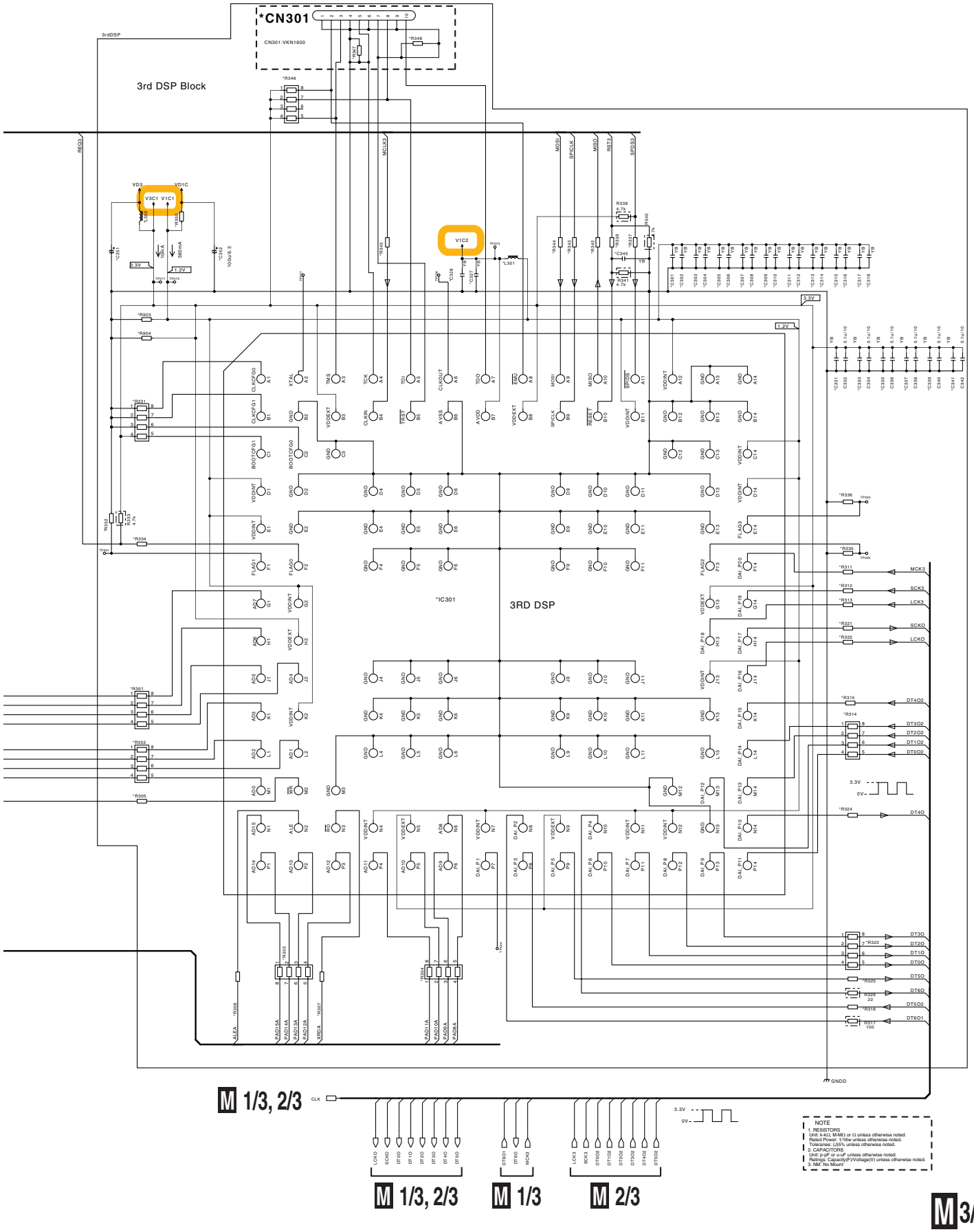
10.19 DSP ASSY (2/3)




M 1/3, 3/3
M 1/3
M 3/3
2nd DSP Block
IC201
DSPC56371AF180-K
2nd DSP
BOOT MODE | A | B | C | D | MODE2
DECODER | 0 | 1 | 0 | 0 | L
UCOM | 1 | 0 | 1 | 0 | H
2ndROM
STBY
CN201 NM
JTAG
CN201:VKN1411
R235:10kΩ
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w 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.
3. NM: No Mount

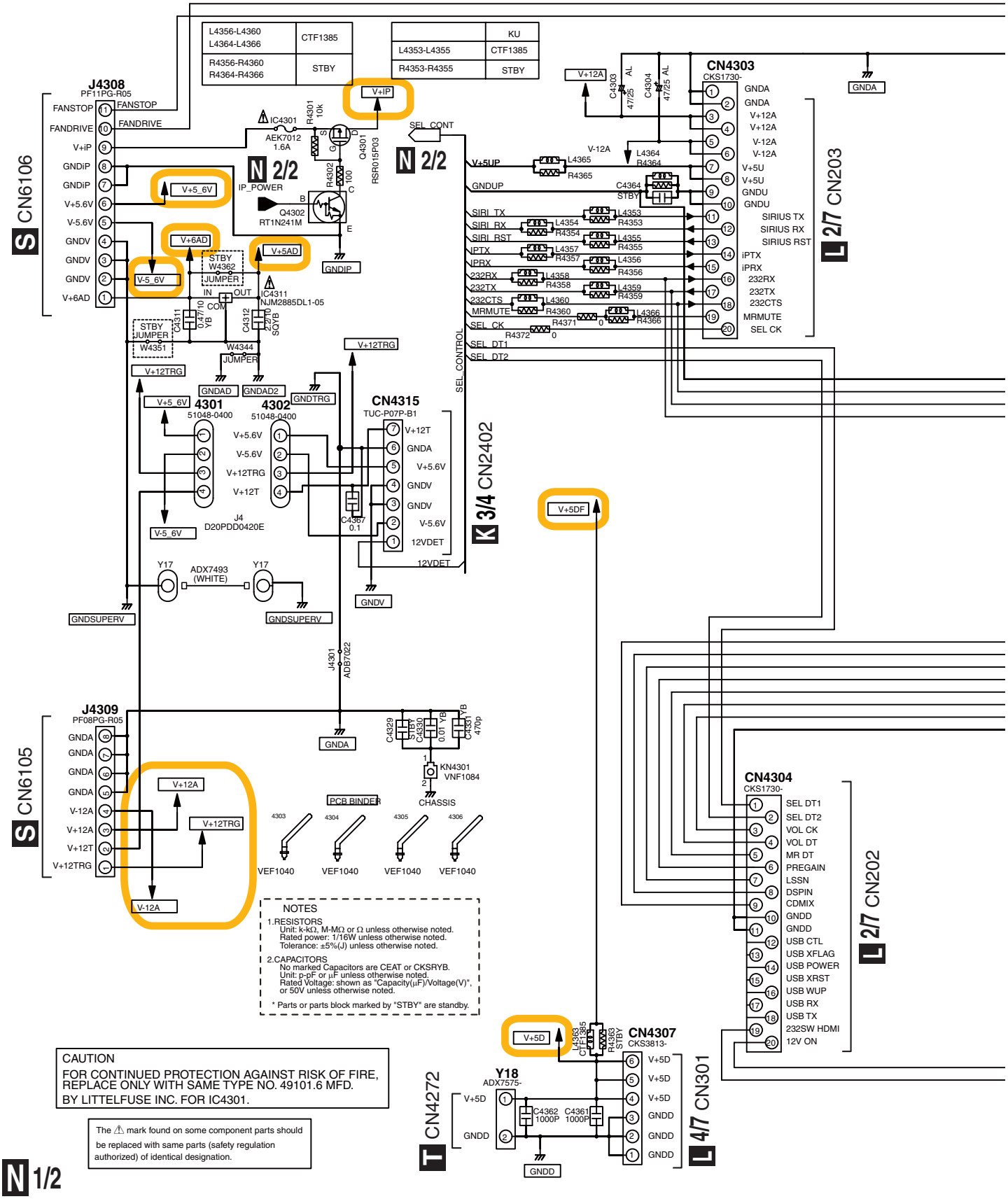
10.20 DSP ASSY (3/3)

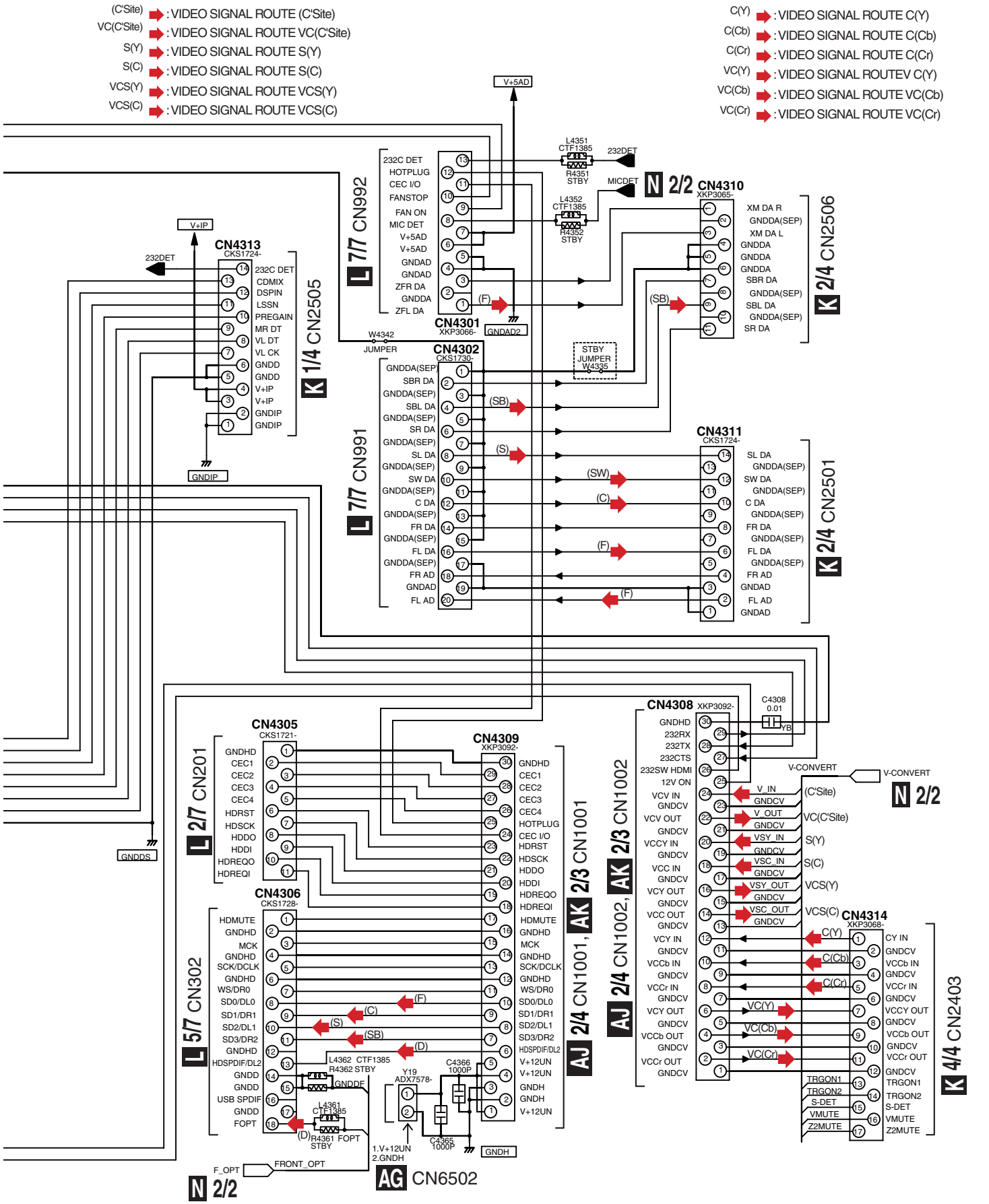



*CN301
CN301:VKN1600
3rdDSP
3rd DSP Block
*IC301
3RD DSP
3.3V
1.2V
GNDD
M 1/3, 2/3
M 1/3
M 2/3
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

10.21 INTERFACE ASSY (1/2)

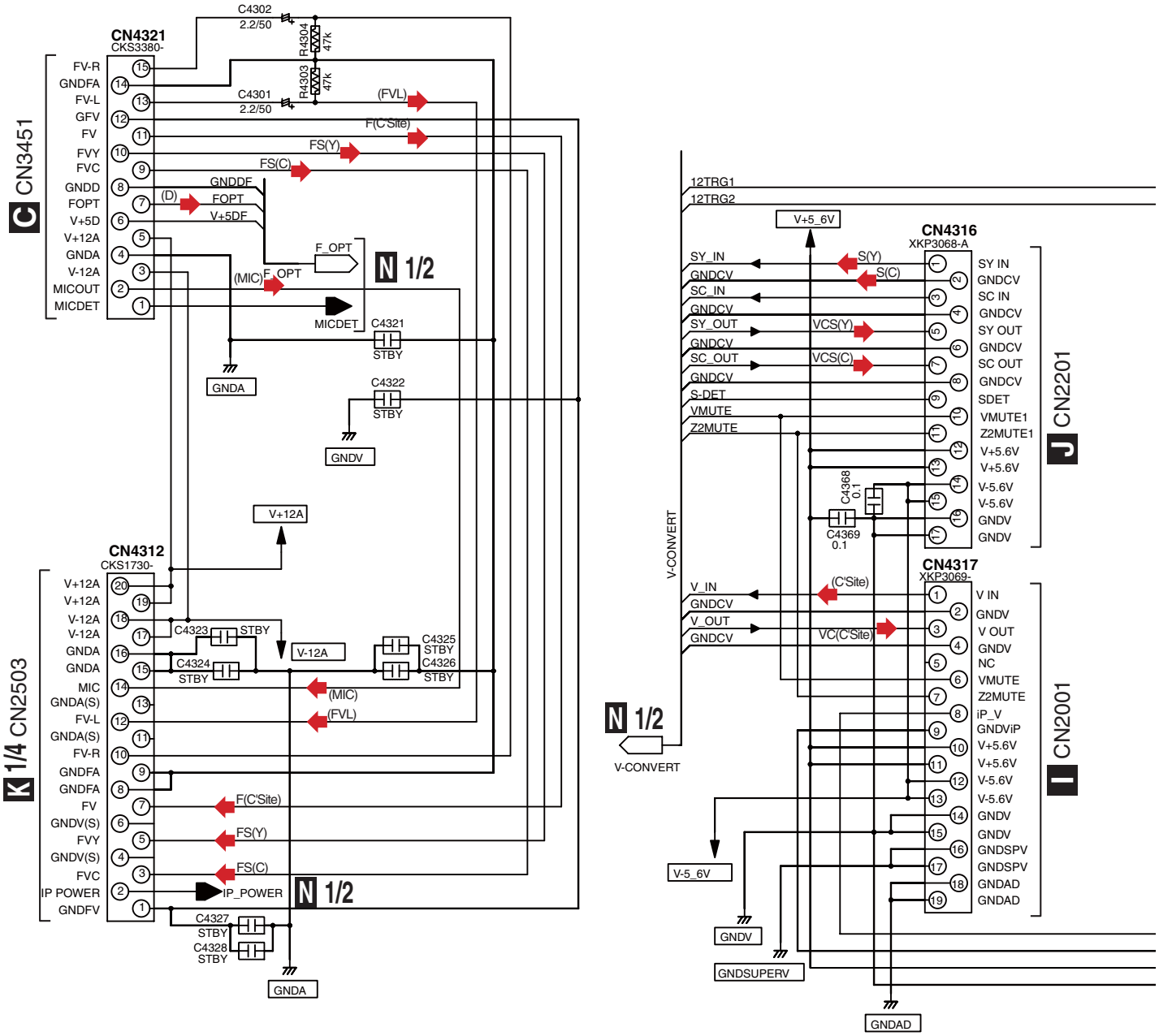
N 1/2 INTERFACE ASSY (AWX8919)

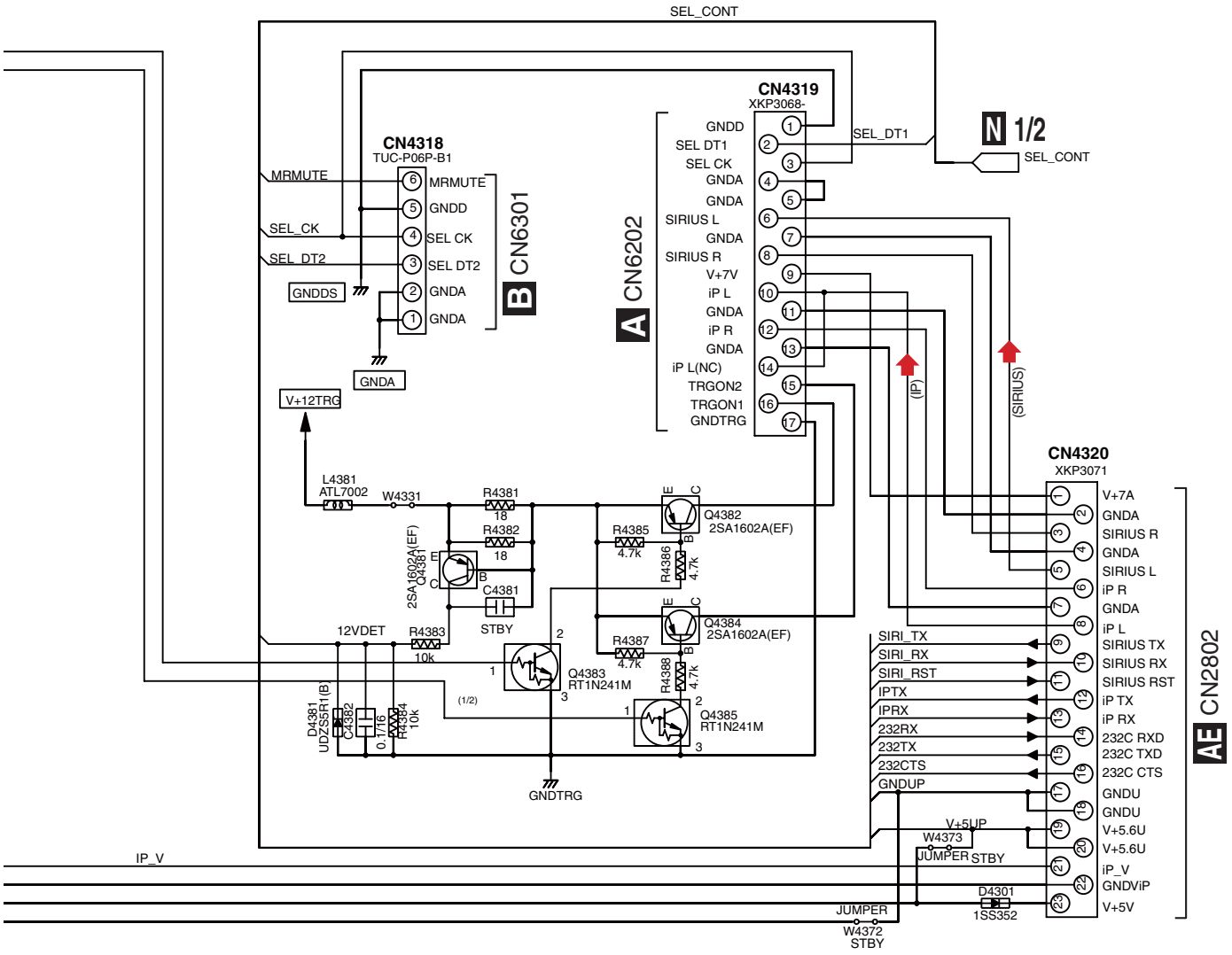



(C'Site) : VIDEO SIGNAL ROUTE (C'Site)
VC(C'Site) : VIDEO SIGNAL ROUTE VC(C'Site)
S(Y) : VIDEO SIGNAL ROUTE S(Y)
S(C) : VIDEO SIGNAL ROUTE S(C)
VCS(Y) : VIDEO SIGNAL ROUTE VCS(Y)
VCS(C) : VIDEO SIGNAL ROUTE VCS(C)
C(Y) : VIDEO SIGNAL ROUTE C(Y)
C(Cb) : VIDEO SIGNAL ROUTE C(Cb)
C(Cr) : VIDEO SIGNAL ROUTE C(Cr)
VC(Y) : VIDEO SIGNAL ROUTEV C(Y)
VC(Cb) : VIDEO SIGNAL ROUTE VC(Cb)
VC(Cr) : VIDEO SIGNAL ROUTE VC(Cr)
V+5AD
V+IP
GNDIP
GNDDS
GNDDA2
GNDHD
GNDDF
CN4313 CKS1724-
232C DET
CDMIX
DSPIN
LSSN
PREGAIN
MR DT
VL DT
VL CK
GNDD
V+IP
GNDIP
K 1/4 CN2505
L 7/7 CN992
232C DET
HOTPLUG
CEC I/O
FANSTOP
FAN ON
MIC DET
V+5AD
GNDAD
ZFR DA
ZFL DA
CN4301 XKP3066-
L4351 CTF1385
R4351 STBY
L4352 CTF1385
R4352 STBY
232DET
MICDET
N 2/2
CN4310 XKP3065-
XM DA R
XM DA L
GNDDA
SBR DA
SBL DA
SR DA
GNDDA(SEP)
K 2/4 CN2506
W4342 JUMPER
STBY JUMPER W4335
CN4302 CKS1730-
GNDDA(SEP)
SBR DA
SBL DA
SR DA
SL DA
SW DA
C DA
FR DA
FL DA
FR AD
FL AD
GNDAD
L 7/7 CN991
CN4311 CKS1724-
SL DA
SW DA
C DA
FR DA
FL DA
FR AD
FL AD
K 2/4 CN2501
CN4305 CKS1721-
GNDHD
CEC1
CEC2
CEC3
CEC4
HDRST
HDSCK
HDDO
HDDI
HDREQO
HDREQI
L 2/7 CN201
CN4309 XKP3092-
HOTPLUG
CEC I/O
HDRST
HDSCK
HDDO
HDDI
HDREQO
HDREQI
CN4306 CKS1728-
HDMUTE
MCK
SCK/DCLK
WS/DR0
SD0/DL0
SD1/DR1
SD2/DL1
SD3/DR2
HDSPDIF/DL2
GNDD
USB SPDIF
FOPT
L 5/7 CN302
L4362 CTF1385
R4362 STBY
L4361 CTF1385
R4361 STBY
Y19 ADX7578-
C4366 1000P
C4365 1000P
1.V+12UN
2.GNDH
V+12UN
GNDH
AJ 2/4 CN1001, AK 2/3 CN1001
CN4308 XKP3092-
232RX
232TX
232CTS
232SW HDMI
12V ON
VCV IN
VCV OUT
VCCY IN
VCC IN
VCY OUT
VCC OUT
VCY IN
VCCb IN
VCCr IN
VCCb OUT
VCCr OUT
C4308 0.01
YB
V-CONVERT
V_IN
V_OUT
VSY_IN
VSC_IN
VSY_OUT
VSC_OUT
(C'Site)
VC(C'Site)
S(Y)
S(C)
VCS(Y)
VCS(C)
AJ 2/4 CN1002, AK 2/3 CN1002
CN4314 XKP3068-
C(Y)
C(Cb)
C(Cr)
VC(Y)
VC(Cb)
VC(Cr)
CY IN
VCCb IN
VCCr IN
VCCY OUT
VCCb OUT
VCCr OUT
TRGON1
TRGON2
S-DET
VMUTE
Z2MUTE
K 4/4 CN2403
F_OPT
FRONT_OPT
N 2/2
AG CN6502
(F) : AUDIO SIGNAL ROUTE(F)
(C) : AUDIO SIGNAL ROUTE(C)
(S) : AUDIO SIGNAL ROUTE(S)
(SB) : AUDIO SIGNAL ROUTE(SB)
(SW) : AUDIO SIGNAL ROUTE(SW)
(D) : AUDIO SIGNAL ROUTE(SPDIF)
N 1/2

10.22 INTERFACE ASSY (2/2)

N 2/2 INTERFACE ASSY (AWX8919)



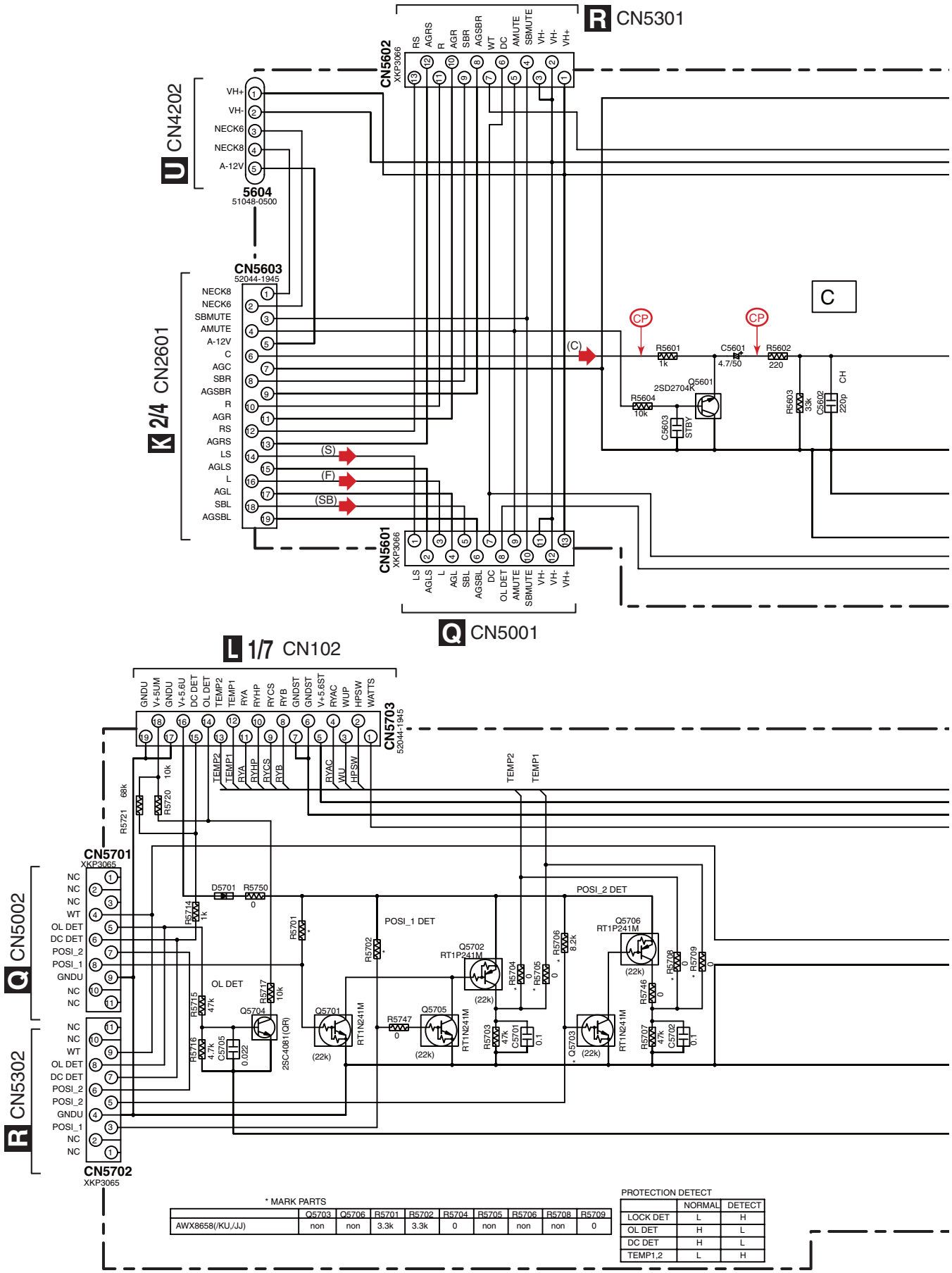


(SIRIUS) : AUDIO SIGNAL ROUTE(SIRIUS)
(IP) : AUDIO SIGNAL ROUTE(IP)
(MIC) : AUDIO SIGNAL ROUTE(MIC)
(D) : AUDIO SIGNAL ROUTE(SPDIF)

(FVL) : VIDEO SIGNAL ROUTE (VIDEO2)
F(C'Site) : VIDEO SIGNAL ROUTE F(C'Site)
FS(C) : VIDEO SIGNAL ROUTE FS(C)
FS(Y) : VIDEO SIGNAL ROUTE FS(Y)
(C'Site) : VIDEO SIGNAL ROUTE (C'Site)
VC(C'Site) : VIDEO SIGNAL ROUTE VC(C'Site)
S(Y) : VIDEO SIGNAL ROUTE S(Y)
S(C) : VIDEO SIGNAL ROUTE S(C)
VCS(Y) : VIDEO SIGNAL ROUTE VCS(Y)
VCS(C) : VIDEO SIGNAL ROUTE VCS(C)

N 2/2

10.23 POWER AMP IN and POWER PROTECT ASSYS



O POWER AMP IN ASSY (AWX8662)

R CN5303

CN5606 KP250NA7 — AGC, b, bb, CB, CE, CE, CE

CP

(C)

R5623 4.7 MUF (1/4W)

D5602-D5604 : 1SS355

C5621 STBY

R5607 2.0k F

C5607 100/10

D5601 UDZS3R6(B)

R5611 1.2k RN

R5610 150 D

C5623 10/63

D5602

Q5603 2SA1514K(RS)

Q5604 2SA1145(OY)

D5603

D5605 UDZS4R7(B)

D5606 UDZS4R7(B)

D5604

R5608 6.8k

C5605 STBY

C5606 STBY

R5609 47k (1/2W)

C5609 10/100

Q5602 IMT4

C5608CH ACG7057 4p/200

Q5605 2SC2705(OY)

R5605 15k

C5604 1000p

R5606 820

R5612 220

R5632 150

C5632 0.22/16

C5624 10/63

C5622 STBY

C5617 330/10

R5631 150 RN D

R5630 1k RN D

R5629 33k(1/10W) RN

C5615 CH 22p

C5616 22p CH

C5627 STBY

MUF (1/4W) 4.7 R5624

R5627 ACN7121 0.18+0.18 (5W+5W)

R5643 470

Q5641 2SA1255(OY)

D5643

R5641 4.7k

D5641

NP C5641 2.2/50

R5642 22k

R5644 470

R5645 4.7k

R5647 1.2k

D5644

R5648 150k

R5650 10k

D5642

R5646 4.7k

R5649 10k

Y1(2/2) ADX7459 (YELLOW)

TO PS/SP ASSY

X CN4003

CN5605 KP250NA7 — GAMP, b, bb, CB, CE, CE, CE

Q CN5003

P POWER PROTECT ASSY (AWX8658)

CAUTION

Do not touch any points on the PCB other than (CP) with an oscilloscope/tester while power is applied.
(It may damage the amplifier due to the oscillation generated.)

OUTPUT LEVEL DET

R5710 22k

R5713 10k

R5711 10k

IC5701 BA4560RF

IC5701 BA4560RF

C5703 0.01

R5712 4.7k

C5704 0.01

C5706 0.01

HPSW
WU
RYAC
RYB
RYCS
RYHP
RYA
LOCK
FAN+
FAN-

CN5705

HPSW
WUP
RYAC
V+5.6ST
GNDST
GNDST
RYB
RYCS
RYHP
RYA
V+12V
V-12V
LOCKDET
-FAN
-FAN
+FAN
+FAN

52044-1745

G CN4403

CN5704 S5B-PHK-S (KM200NA5L) — FAN, LOCK, FAN-, FAN+ / V+12V, V-12V, LOCKDET, -FAN, +FAN

S J6104

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

NOTES

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
F:±1% D:±0.5%
RN:Fixed Metal Film

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB. CH:CCSRCH
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS355.

* Parts or parts block marked by "STBY" are standby.

(C): AUDIO SIGNAL ROUTE(C)
(S): AUDIO SIGNAL ROUTE(S)
(F): AUDIO SIGNAL ROUTE(F)
(SB): AUDIO SIGNAL ROUTE(SB)

O P

10.24 POWER AMP L ASSY

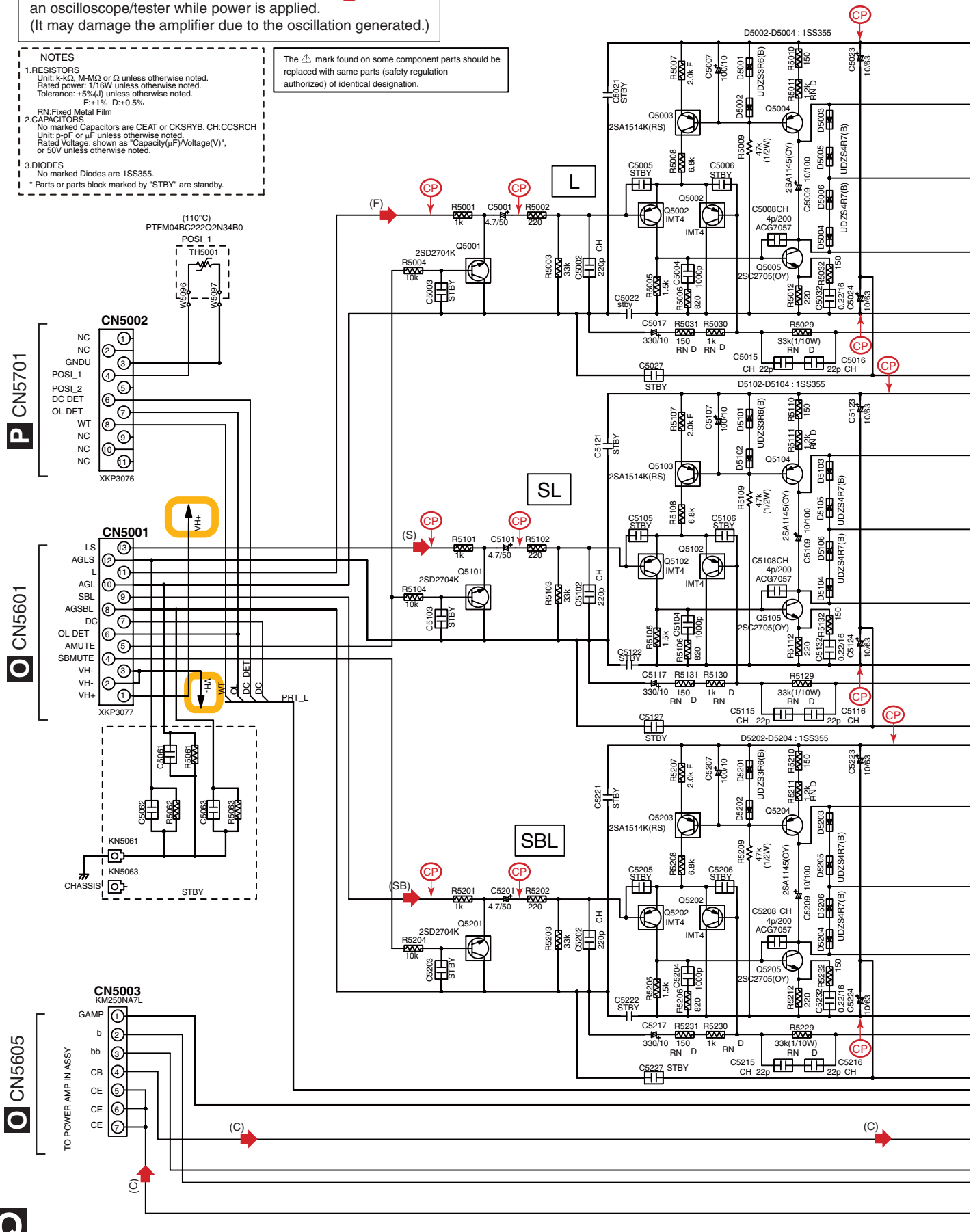
CAUTION

Do not touch any points on the PCB other than (CP) with an oscilloscope/tester while power is applied.
(It may damage the amplifier due to the oscillation generated.)

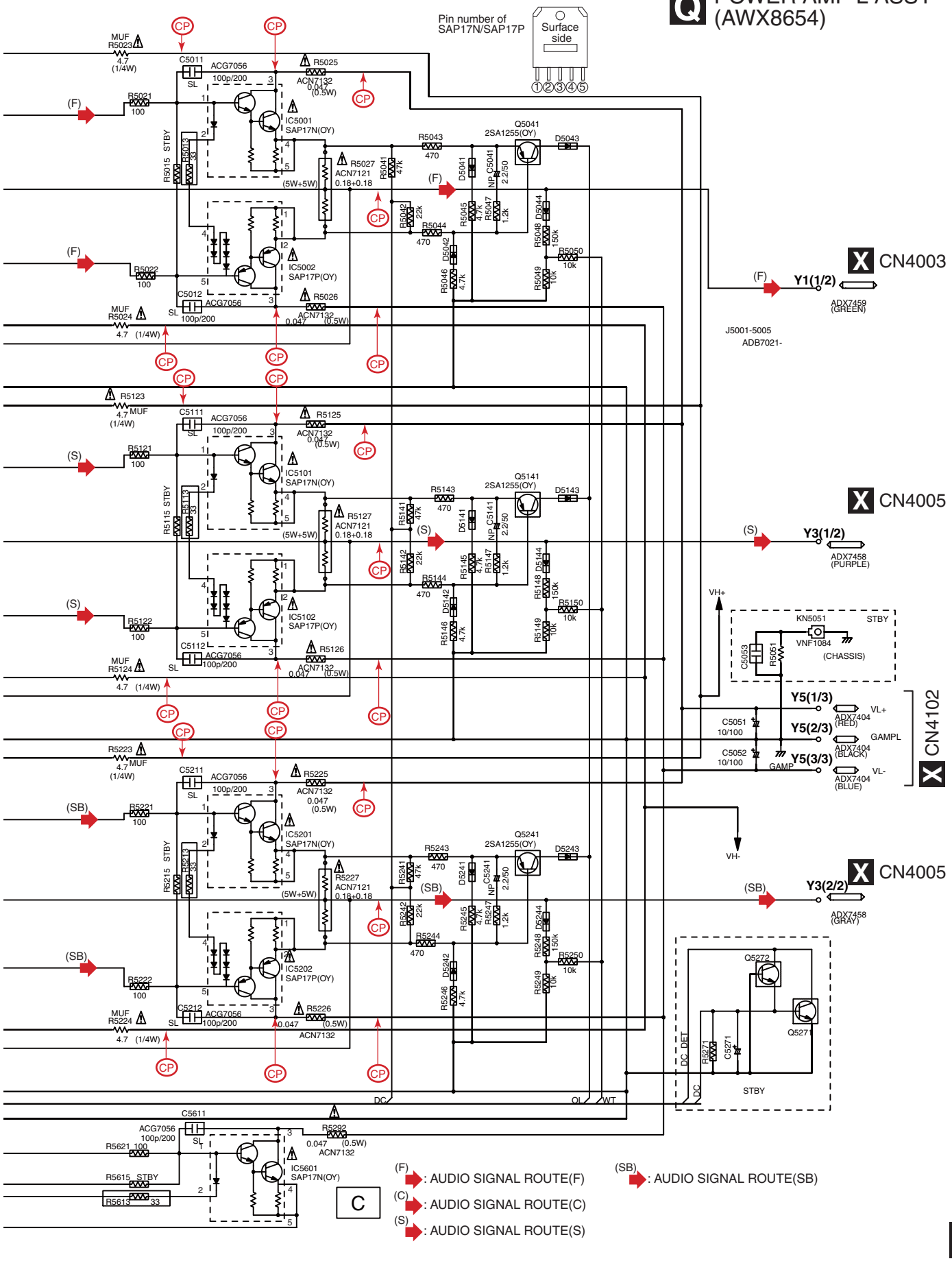
NOTES

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
F:±1% D:±0.5%
RN:Fixed Metal Film
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB. CH:CCSRCH
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
3.DIODES
No marked Diodes are 1SS355.
* Parts or parts block marked by "STBY" are standby.

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



Q POWER AMP L ASSY (AWX8654)

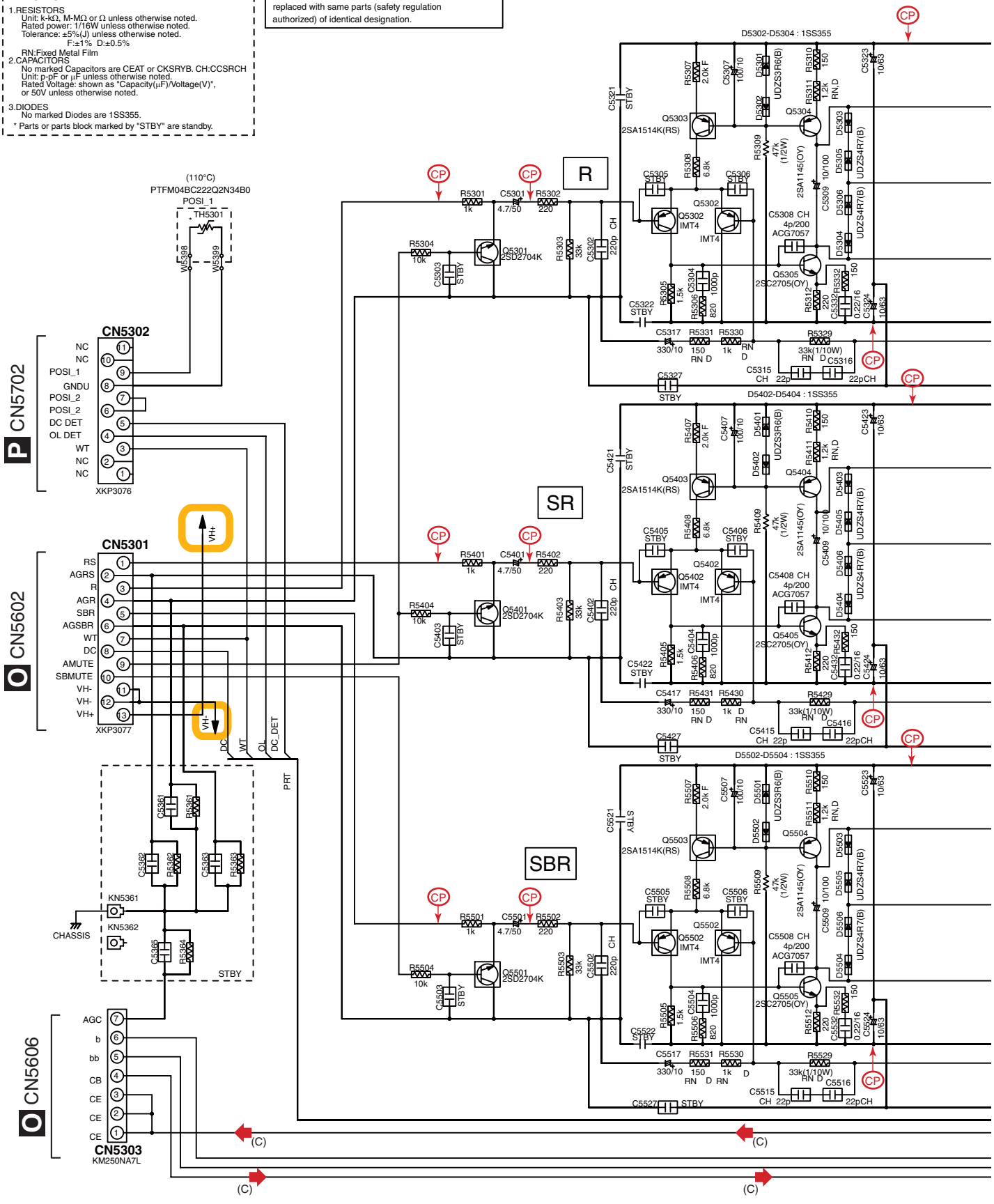


C

10.25 POWER AMP R ASSY

NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
F:±1% D:±0.5%
RN:Fixed Metal Film
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB. CH:CCSRCH
Unit: p-pF or µF unless otherwise noted.
Rated Voltage: shown as "Capacity(µF)/Voltage(V)", or 50V unless otherwise noted.
3.DIODES
No marked Diodes are 1SS355.
* Parts or parts block marked by "STBY" are standby.

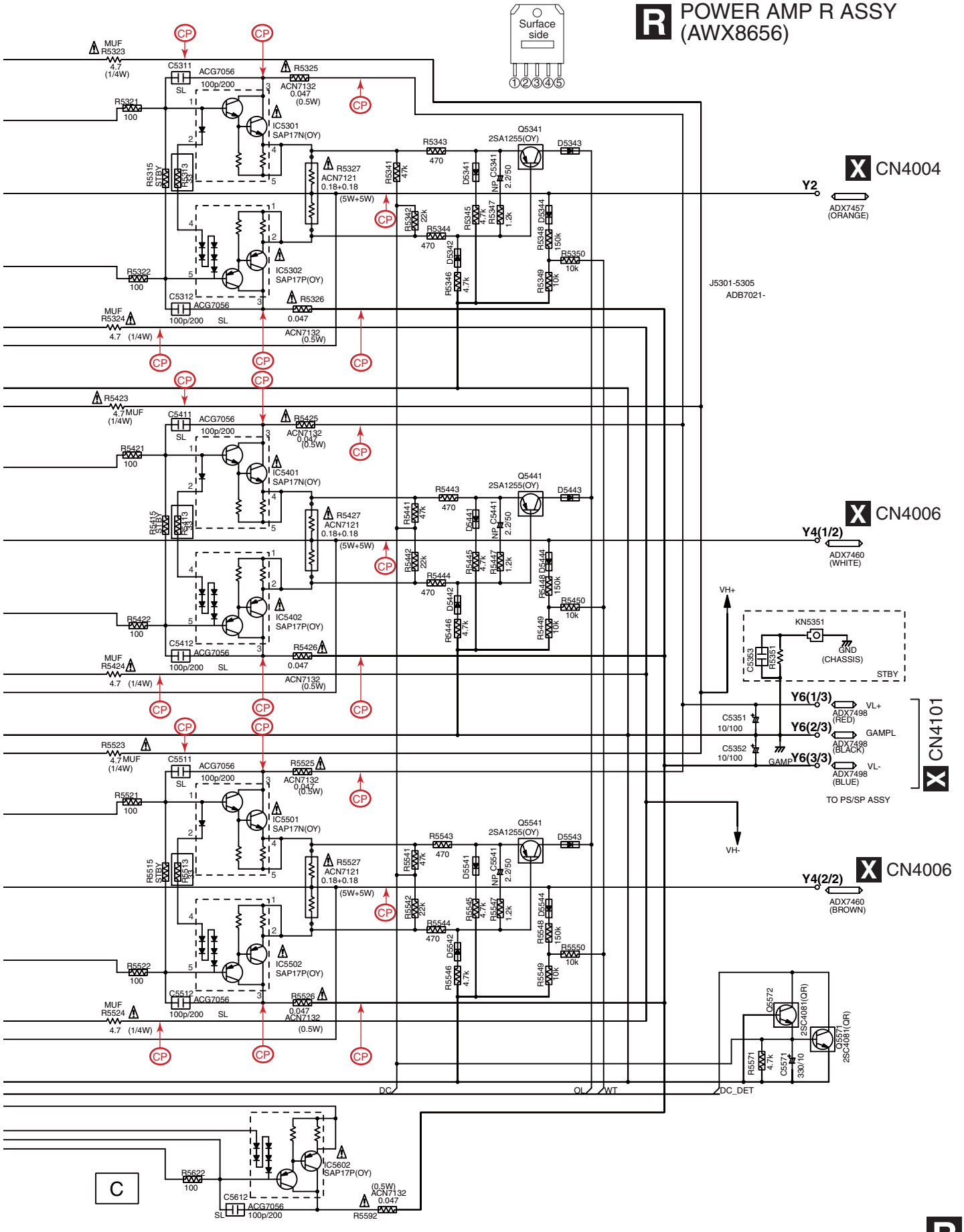
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.



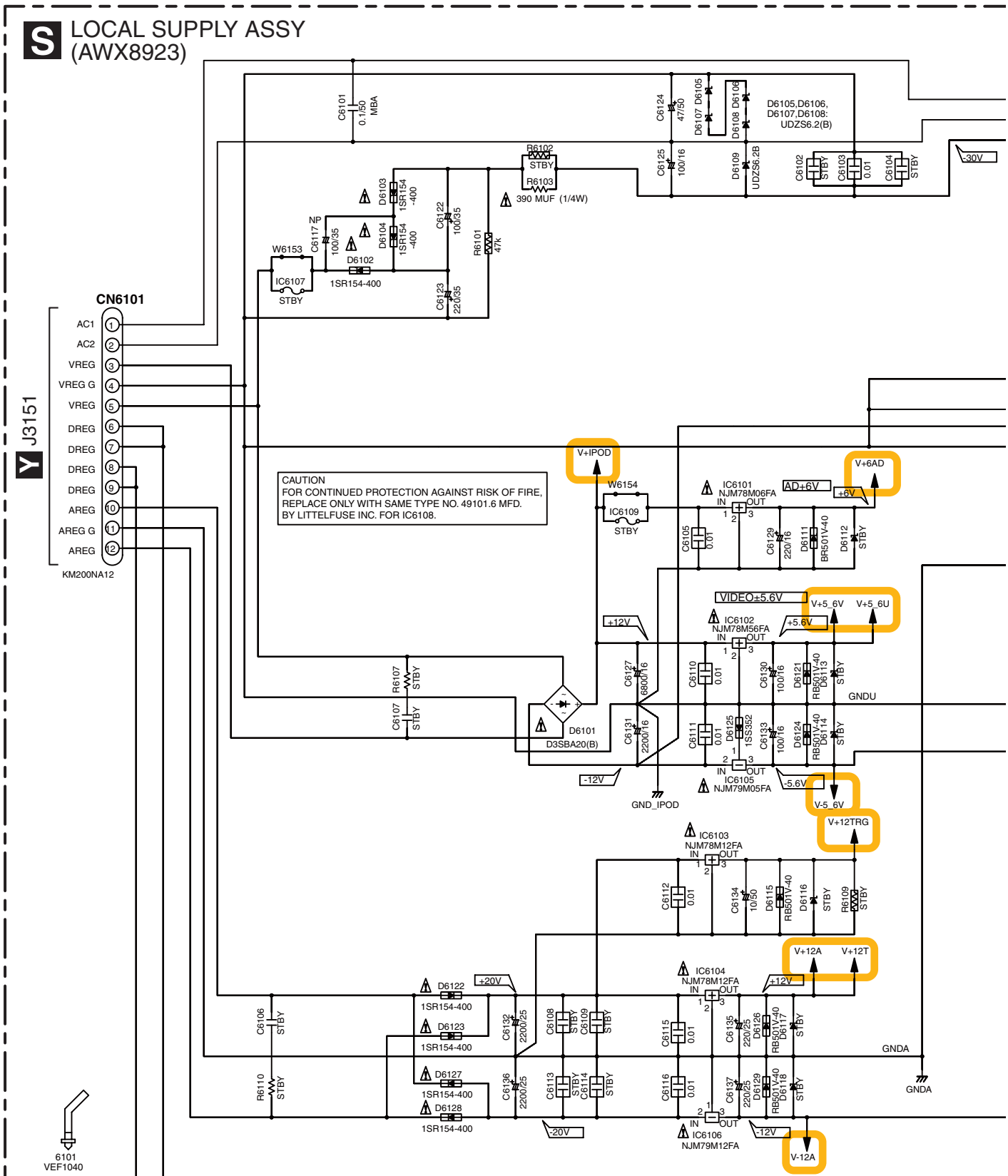
CAUTION
Do not touch any points on the PCB other than (CP) with an oscilloscope/tester while power is applied.
(It may damage the amplifier due to the oscillation generated.)

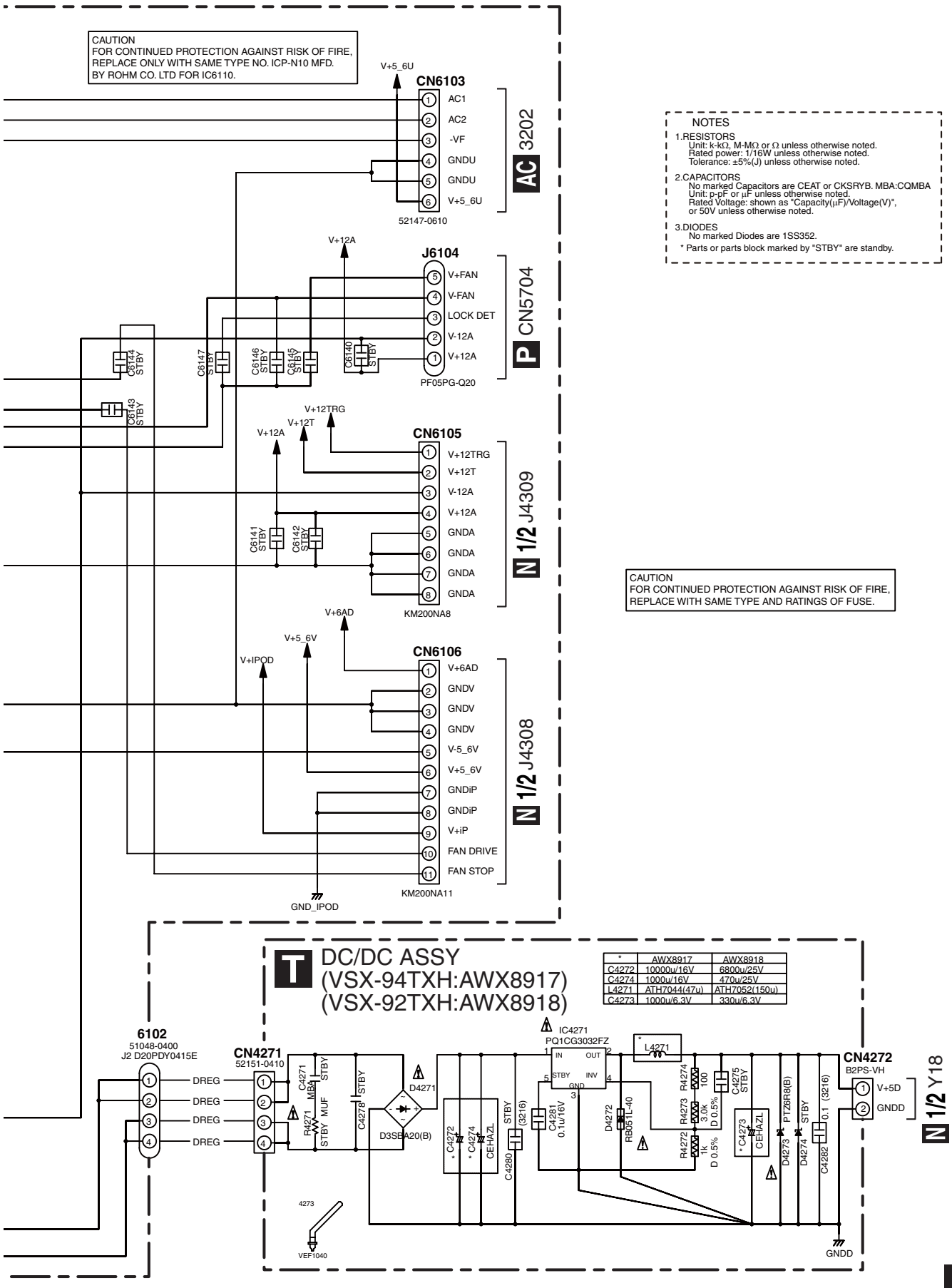
(C) : AUDIO SIGNAL ROUTE(C)

R POWER AMP R ASSY (AWX8656)



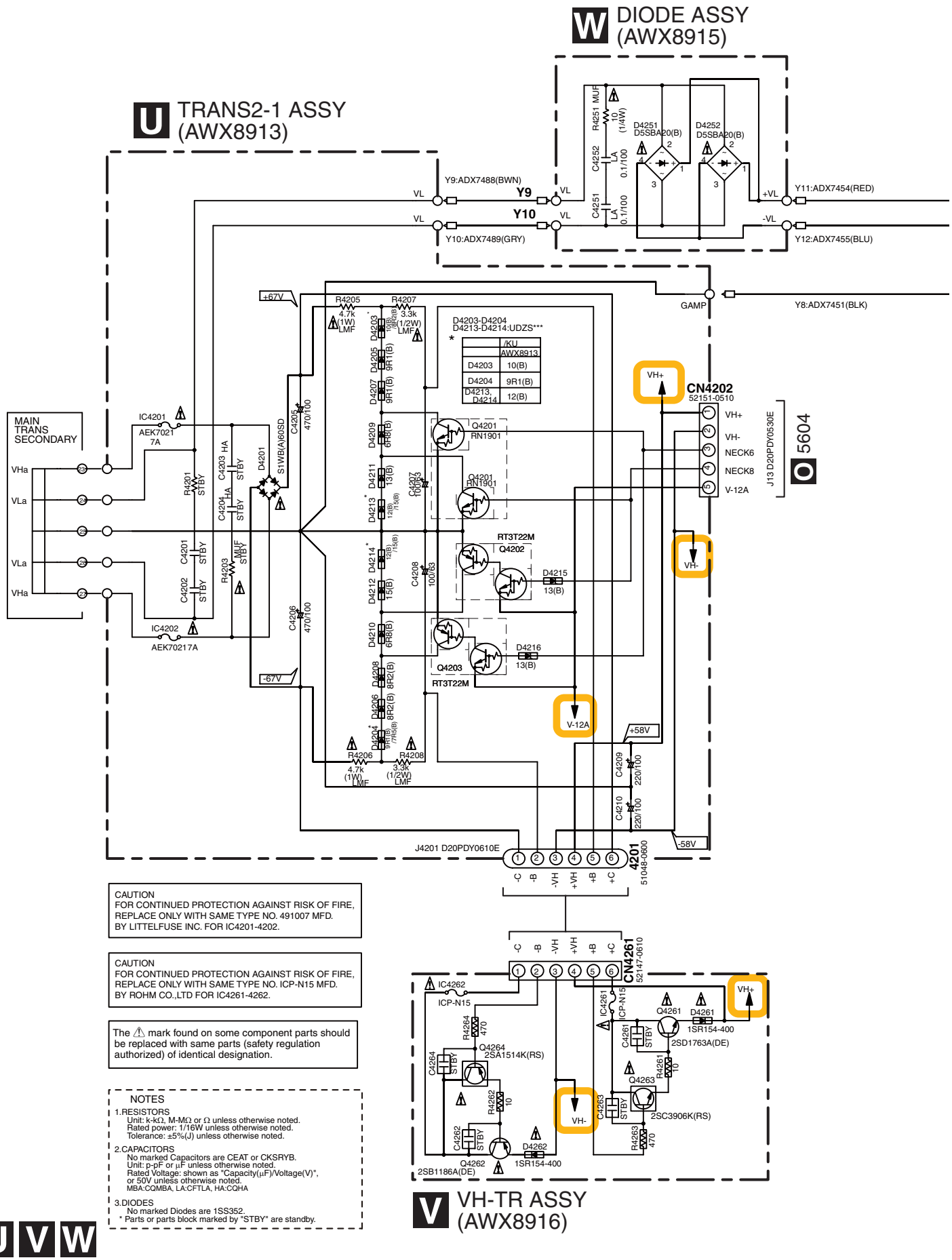
10.26 LOCAL SUPPLY and DC/DC ASSYS



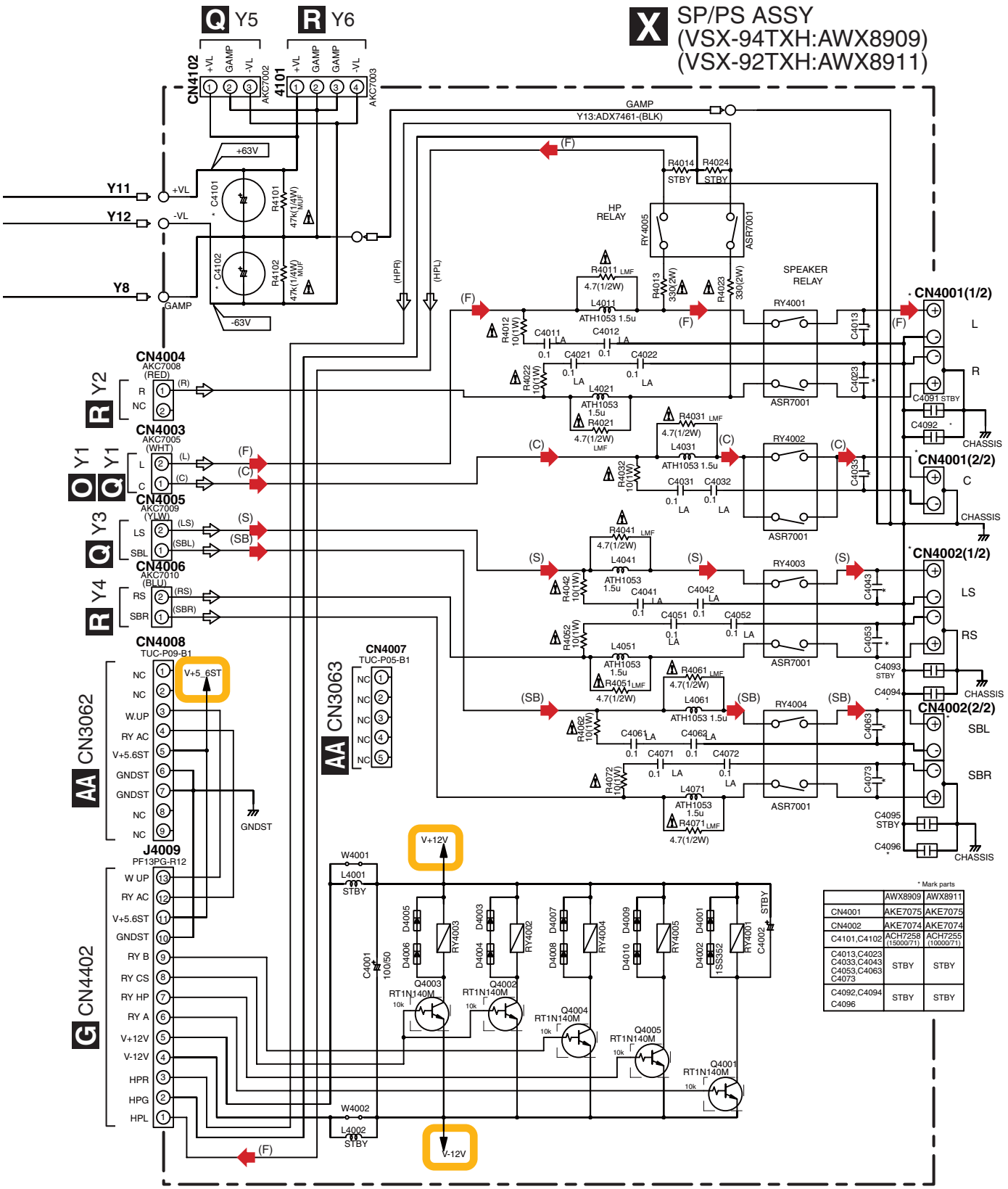

CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE ONLY WITH SAME TYPE NO. ICP-N10 MFD.
BY ROHM CO. LTD FOR IC6110.
V+5_6U
CN6103
AC1
AC2
-VF
GNDU
GNDU
V+5_6U
52147-0610
AC 3202
V+12A
J6104
V+FAN
V-FAN
LOCK DET
V-12A
V+12A
PF05PG-Q20
P CN5704
C6147 STBY
C6146 STBY
C6145 STBY
C6140 STBY
C6144 STBY
C6143 STBY
V+12TRG
V+12T
V+12A
CN6105
V+12TRG
V+12T
V-12A
V+12A
GNDA
GNDA
GNDA
GNDA
KM200NA8
N 1/2 J4309
C6141 STBY
C6142 STBY
V+6AD
V+5_6V
V+IPOD
CN6106
V+6AD
GNDV
GNDV
GNDV
V-5_6V
V+5_6V
GNDiP
GNDiP
V+iP
FAN DRIVE
FAN STOP
KM200NA11
N 1/2 J4308
GND_IPOD
NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB. MBA:CQMBA
Unit: p-pF or µF unless otherwise noted.
Rated Voltage: shown as "Capacity(µF)/Voltage(V)",
or 50V unless otherwise noted.
3.DIODES
No marked Diodes are 1SS352.
* Parts or parts block marked by "STBY" are standby.
CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.
T DC/DC ASSY
(VSX-94TXH:AWX8917)
(VSX-92TXH:AWX8918)
* AWX8917 AWX8918
C4272 10000u/16V 6800u/25V
C4274 1000u/16V 470u/25V
L4271 ATH7044(47u) ATH7052(150u)
C4273 1000u/6.3V 330u/6.3V
6102
51048-0400
J2 D20PDY0415E
DREG
DREG
DREG
DREG
CN4271
52151-0410
R4271 MBA MUF STBY
C4271 STBY
C4278 STBY
D4271
D3SBA20(B)
C4272 *
C4274 *
CEHA2L
C4280 STBY (3216)
IC4271
PQ1CG3032FZ
IN OUT
STBY INV
GND
C4281 0.1u/16V
D4272
RB051L-40
L4271 *
R4274 100
R4273 3.0k D 0.5%
R4272 1k D 0.5%
C4275 STBY
C4273 *
CEHA2L
PTZ6R8(B)
D4273
D4274
STBY
C4282 0.1 (3216)
CN4272
B2PS-VH
V+5D
GNDD
N 1/2 Y18
4273
VEF1040
GNDD

5 6 7 8

10.27 TRANS2-1, VH-TR, DIODE and SP/PS ASSYS



X SP/PS ASSY (VSX-94TXH:AWX8909) (VSX-92TXH:AWX8911)

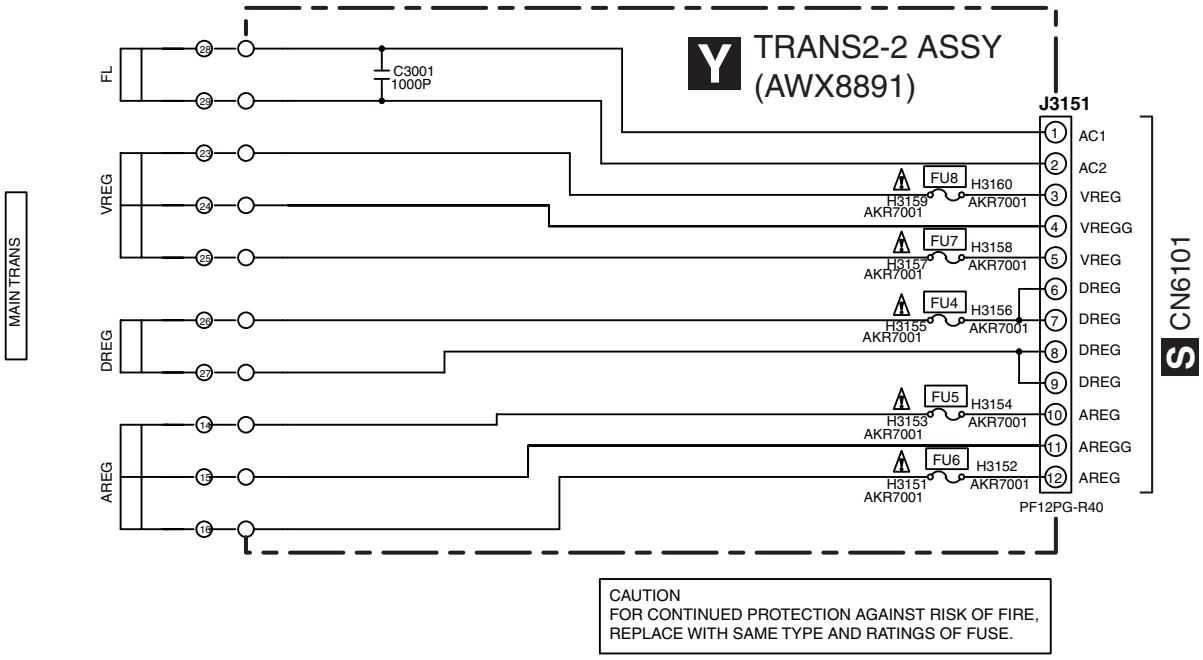


* Mark parts

	AWX8909	AWX8911
CN4001	AKE7075	AKE7075
CN4002	AKE7074	AKE7074
C4101,C4102	ACH7258 (15000/71)	ACH7255 (10000/71)
C4013,C4023 C4033,C4043 C4053,C4063 C4073	STBY	STBY
C4092,C4094 C4096	STBY	STBY

(F): AUDIO SIGNAL ROUTE (F)
(C): AUDIO SIGNAL ROUTE (C)
(S): AUDIO SIGNAL ROUTE (S)
(SB): AUDIO SIGNAL ROUTE (SB)

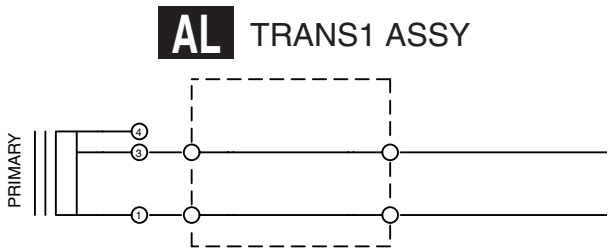
10.28 TRANS2-2, TRANS1 and PRIMARY ASSYS



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

⚠

	FU4	FU5,6	FU7,8
KU/CA	REK1067 (5A/125V)	REK1143 (1.25A/125V)	REK1146 (2.5A/125V)



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

NOTES

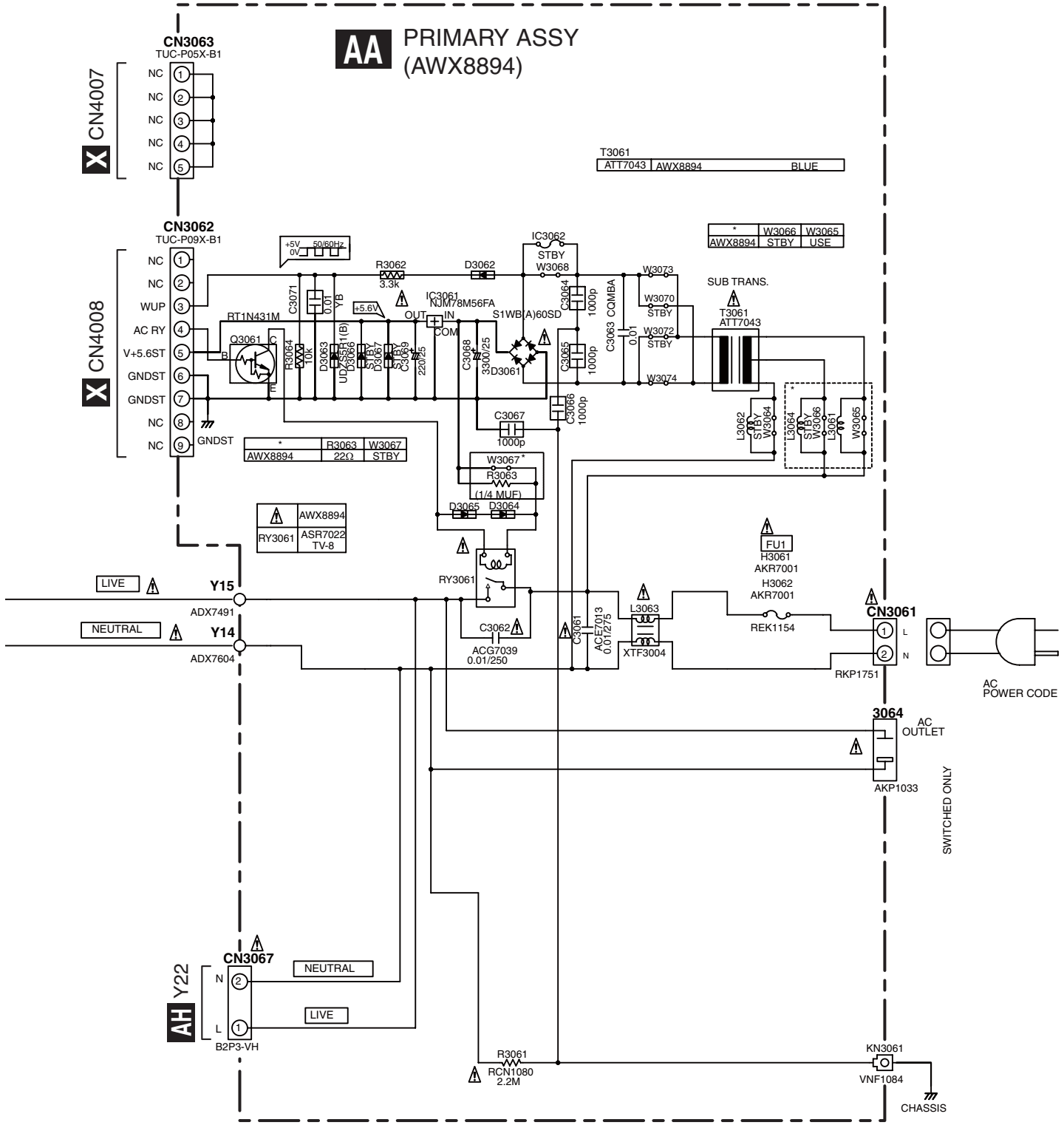
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)",
or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS352.

* Parts or parts block marked by "STBY" are standby.

Y AL

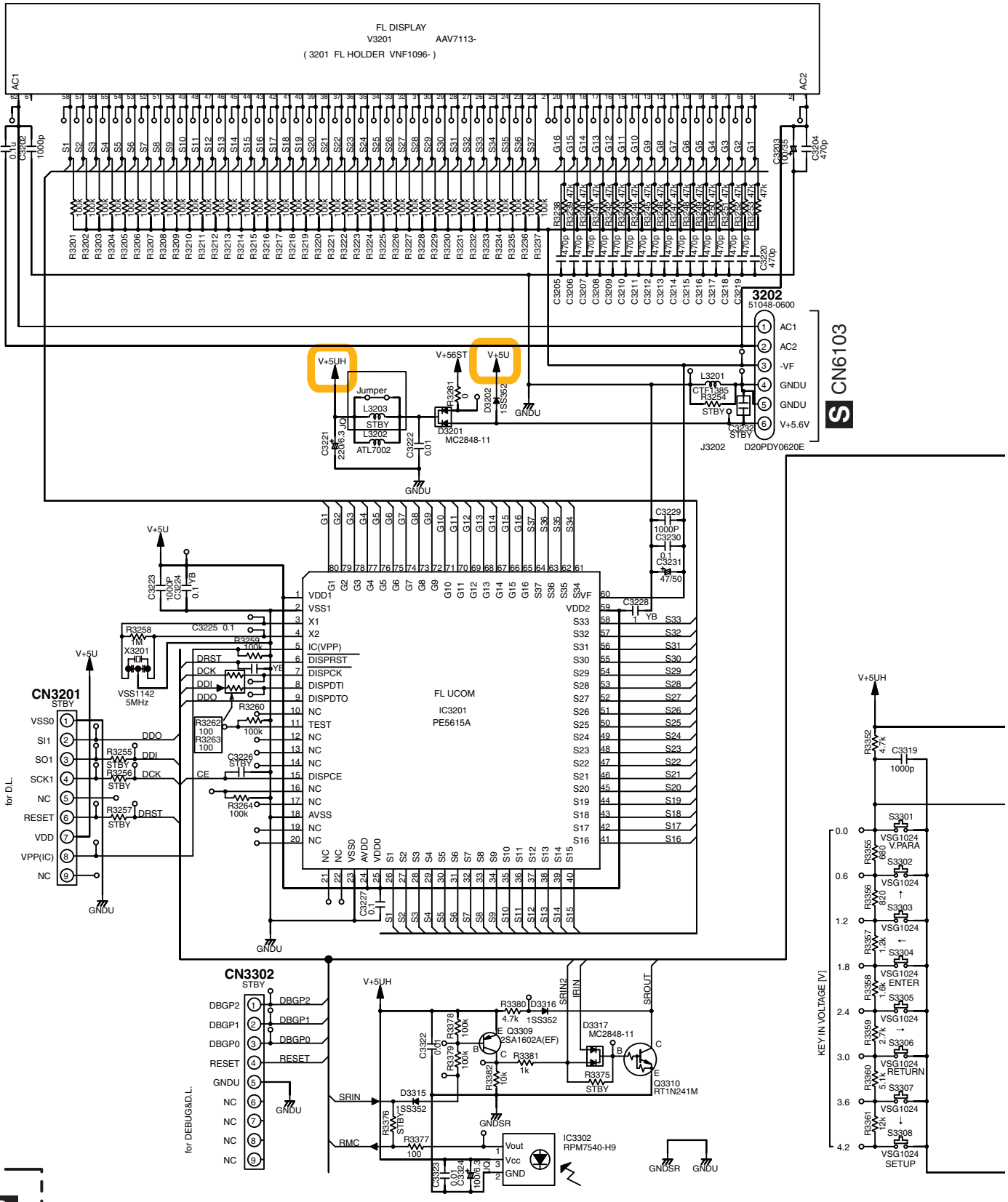


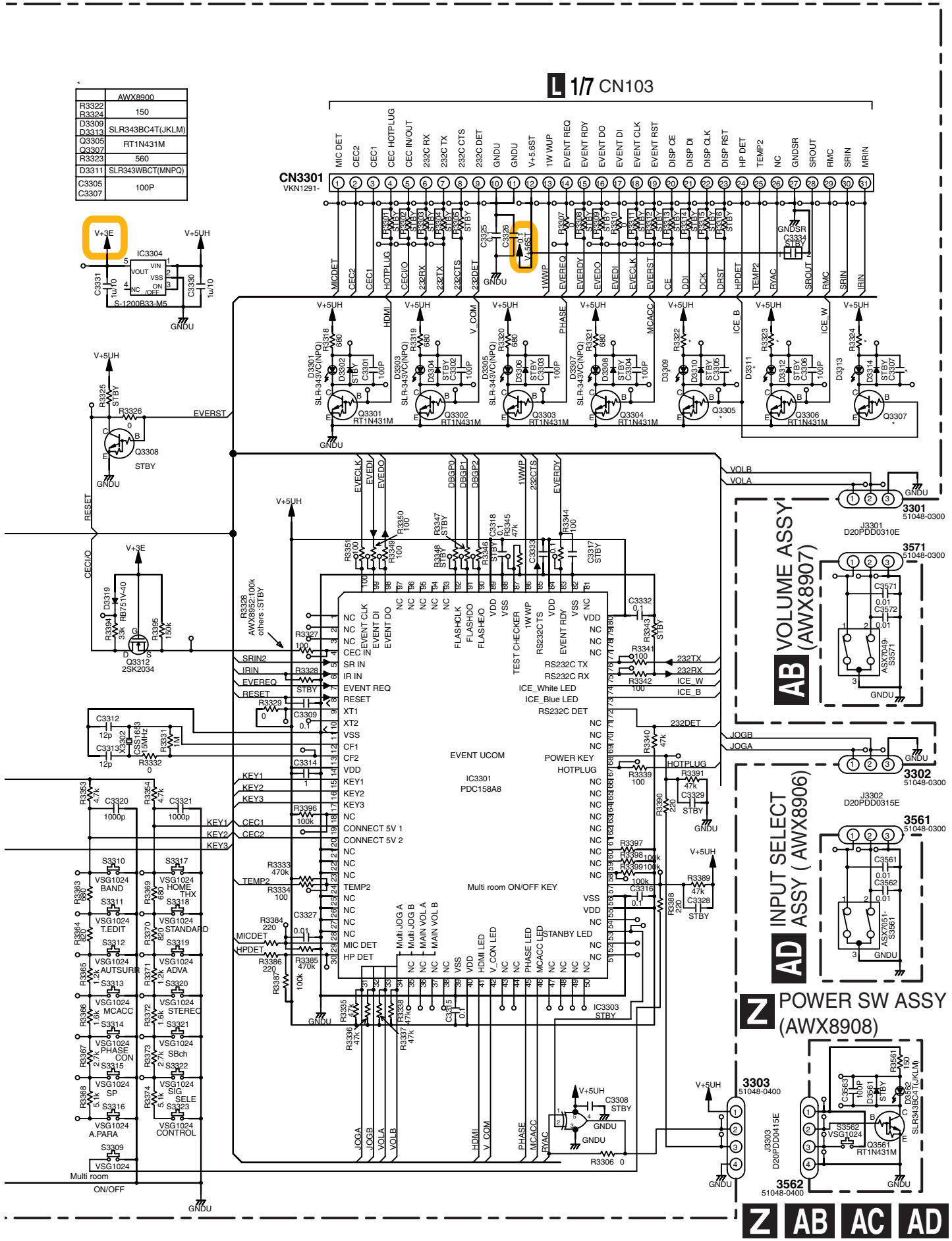
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

Switches

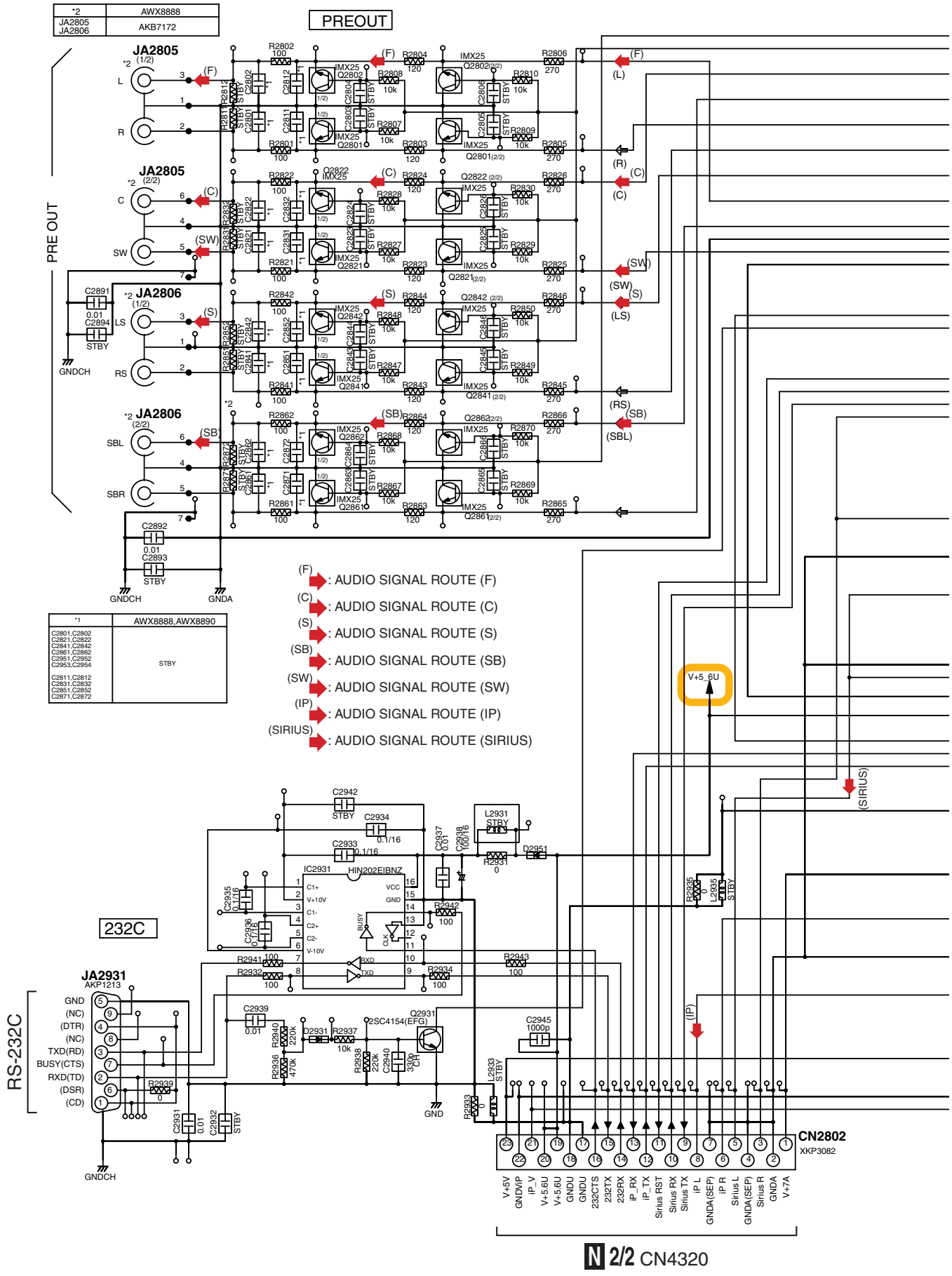
S3301 : V.PARA	S3307 : ⬇	S3313 : MCACC	S3319 : ADVA
S3302 : ⬆	S3308 : SETUP	S3314 : PHASE CON	S3320 : STEREO
S3303 : ⬅	S3309 : MULTI ROOM	S3315 : SP	S3321 : SBch
S3304 : ENTER	S3310 : BAND	S3316 : A.PARA	S3322 : SIG SELE
S3305 : ➡	S3311 : T.EDIT	S3317 : HOME	S3323 : CONTROL
S3306 : RETURN	S3312 : AUTSURR	S3318 : STANDARD	

AC DISPLAY ASSY (AWX8900)

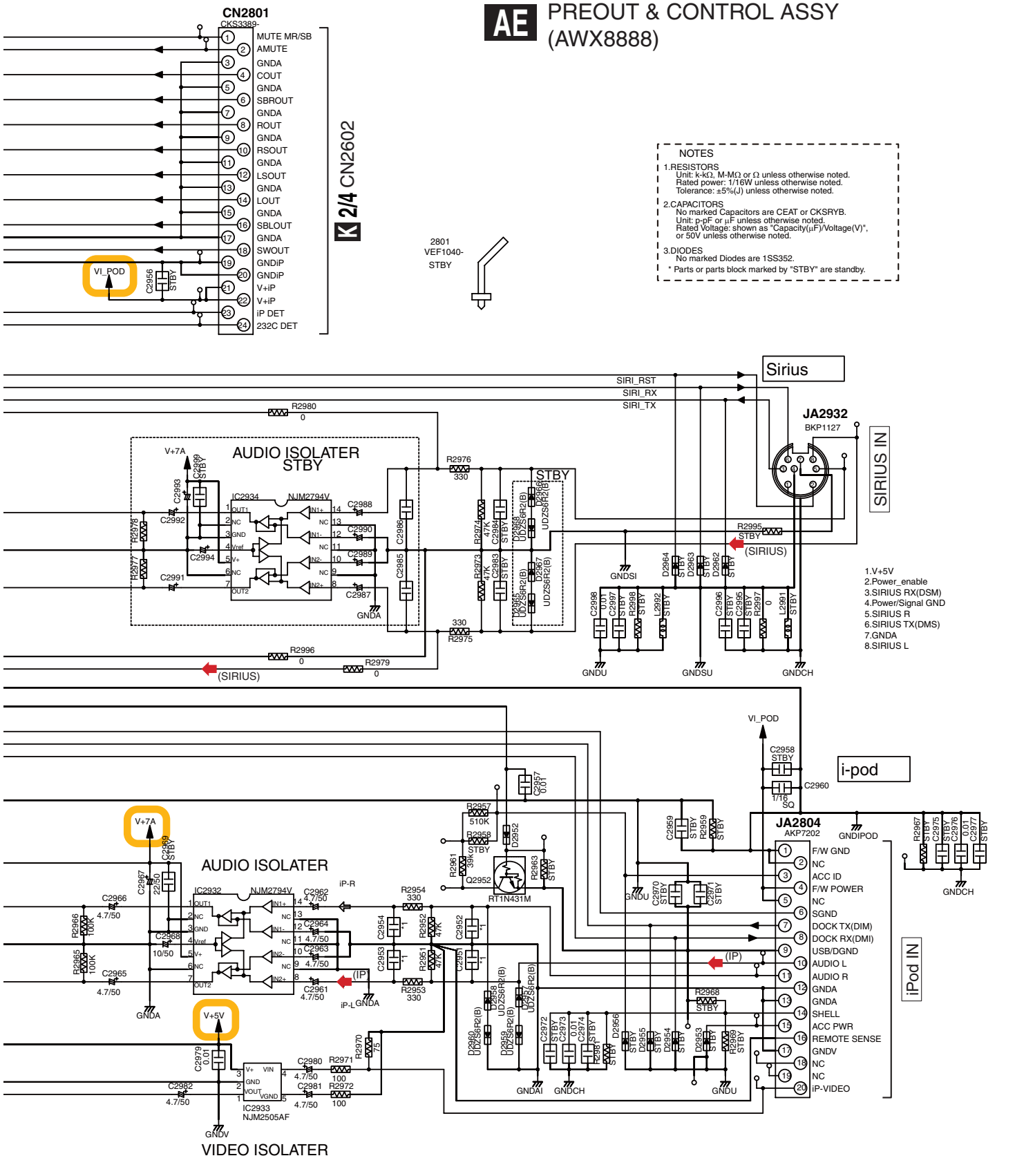



L 1/7 CN103
CN3301
VKN1291-
MIC DET
CEC2
CEC1
CEC HOTPLUG
CEC IN/OUT
232C RX
232C TX
232C CTS
232C DET
GNDU
GNDU
V+5.6ST
1W WUP
EVENT REQ
EVENT RDY
EVENT DO
EVENT DI
EVENT CLK
EVENT RST
DISP CE
DISP DI
DISP CLK
DISP RST
HP DET
TEMP2
NC
GNDSR
SROUT
RMC
SRIN
MRIN
MICDET
CEC2
CEC1
HOTPLUG
CEC/IO
232RX
232TX
232CTS
232DET
1WWP
EVEREQ
EVERDY
EVEDO
EVEDI
EVECLK
EVERST
CE
DDI
DCK
DRST
HPDET
TEMP2
RYAC
SROUT
RMC
SRIN
IRIN
HDMI
V_COM
PHASE
MCACC
ICE_B
ICE_W
Q3301 RT1N431M
Q3302 RT1N431M
Q3303 RT1N431M
Q3304 RT1N431M
Q3305
Q3306 RT1N431M
Q3307
Q3308
STBY
IC3304
S-1200B33-M5
V+3E
V+5UH
GNDU
AWX8900
R3322 R3324 150
D3309 D3313 SLR343BC4T(JKLM)
Q3305 Q3307 RT1N431M
R3323 560
D3311 SLR343WBCT(MNPQ)
C3305 C3307 100P
RESET
CEC/IO
EVERST
SRIN2
IRIN
EVEREQ
RESET
232TX
232RX
ICE_W
ICE_B
VOLB
VOLA
JOGB
JOGA
HOTPLUG
232DET
KEY1
KEY2
KEY3
CEC1
CEC2
TEMP2
MICDET
HPDET
Multi room ON/OFF
EVENT UCOM
IC3301
PDC158A8
POWER KEY
HOTPLUG
Multi room ON/OFF KEY
STANBY LED
IC3303
STBY
Multi JOG A
Multi JOG B
MAIN VOL A
MAIN VOL B
HDMI LED
V_CON LED
PHASE LED
MCACC LED
RYAC
VOLUME ASSY (AWX8907)
AB
3301 51048-0300
J3301 D20PDD0310E
3571 51048-0300
INPUT SELECT ASSY (AWX8906)
AD
3302 51048-0300
J3302 D20PDD0315E
3561 51048-0300
POWER SW ASSY (AWX8908)
Z
3303 51048-0400
J3303 D20PDD0415E
3562 51048-0400
Z AB AC AD

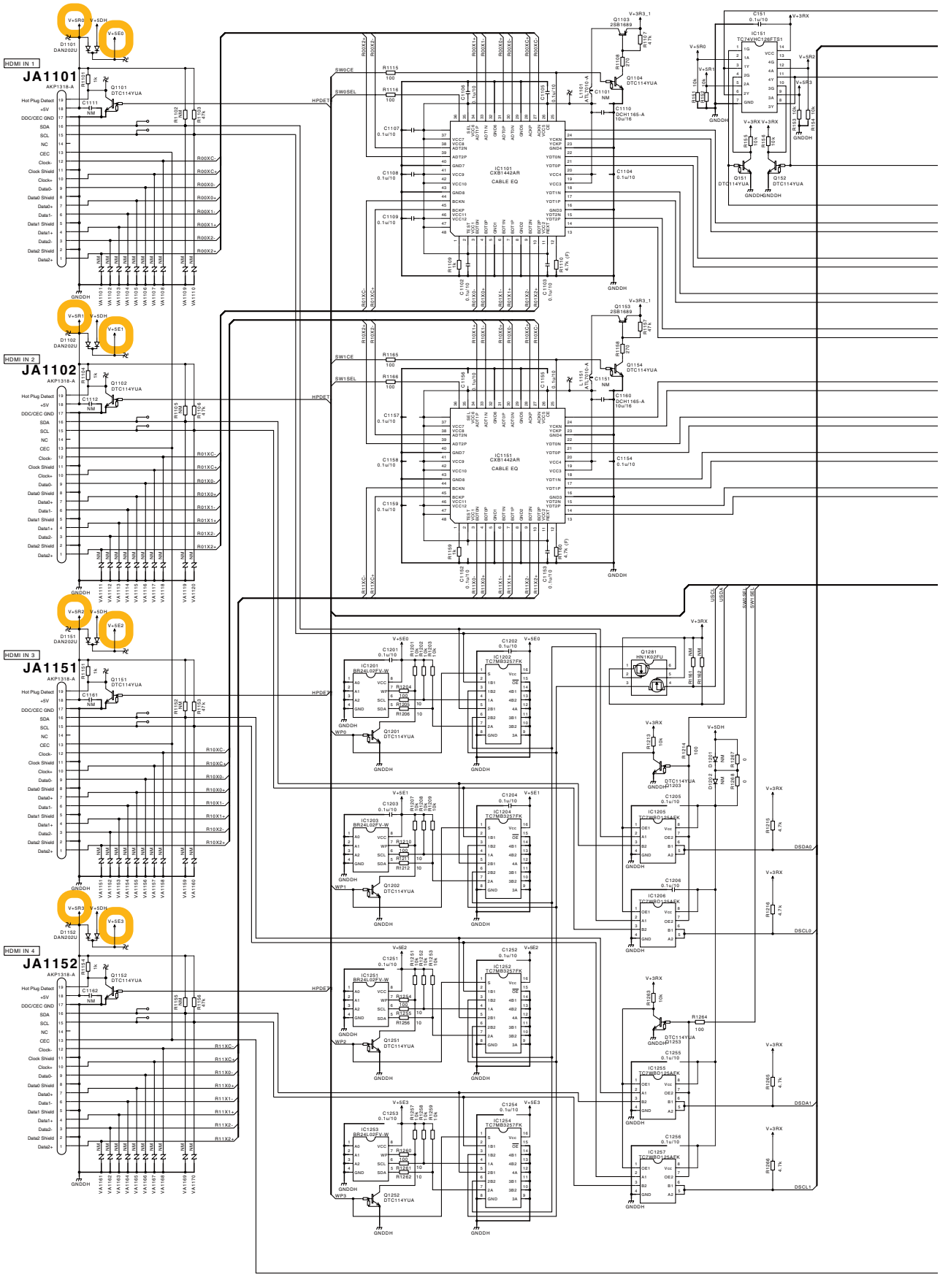
10.30 PREOUT & CONTROL ASSY

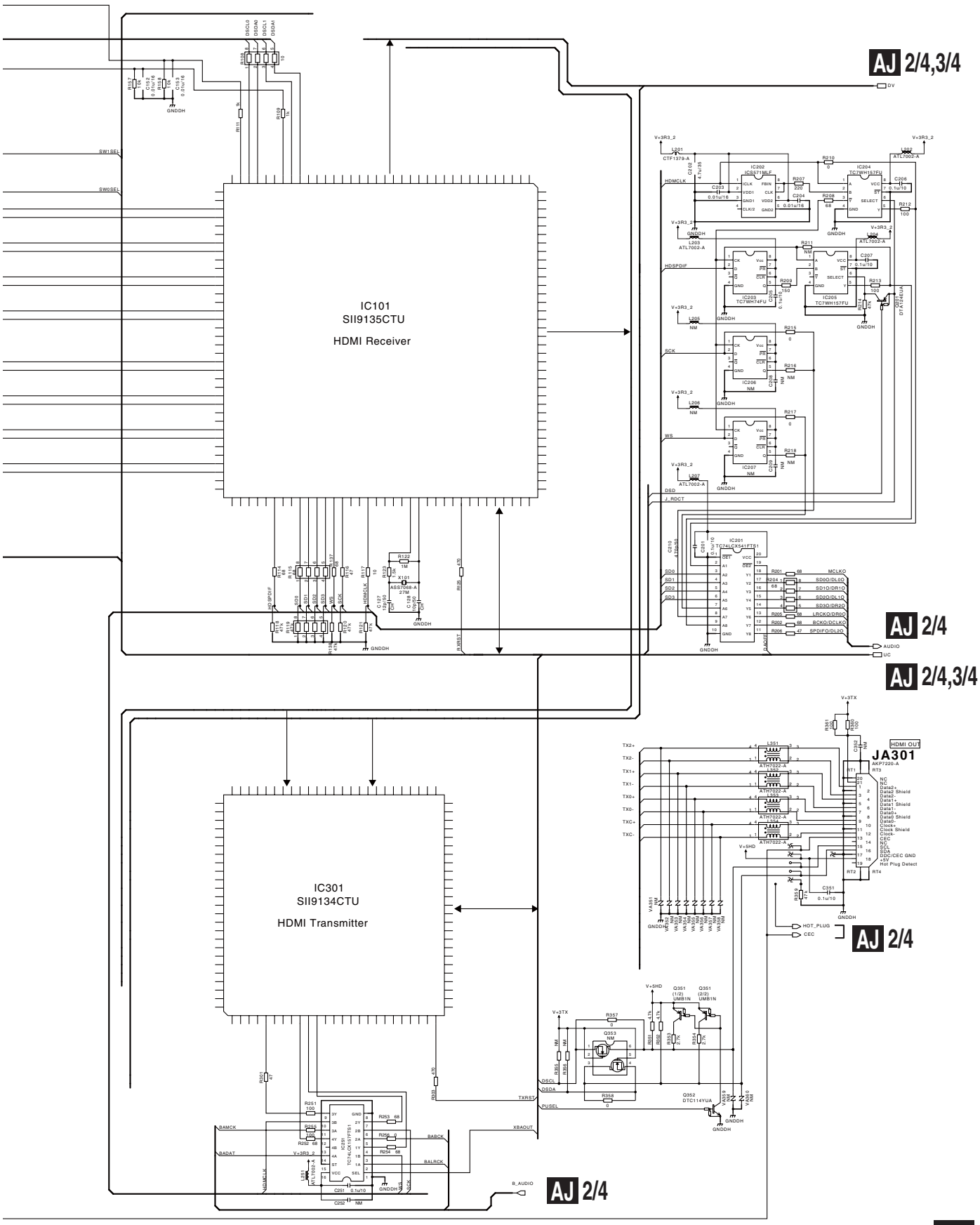


AE PREOUT & CONTROL ASSY (AWX8888)

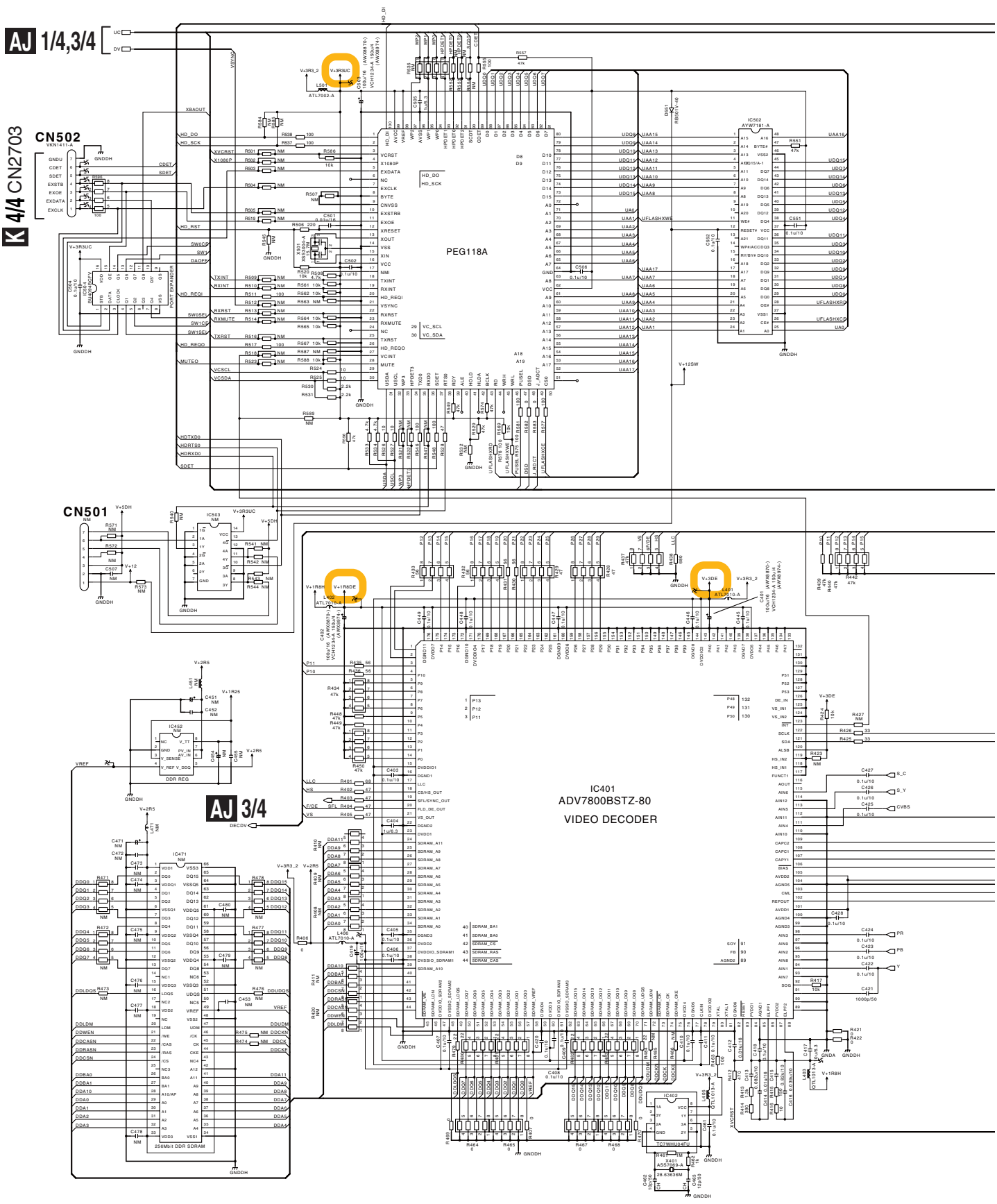


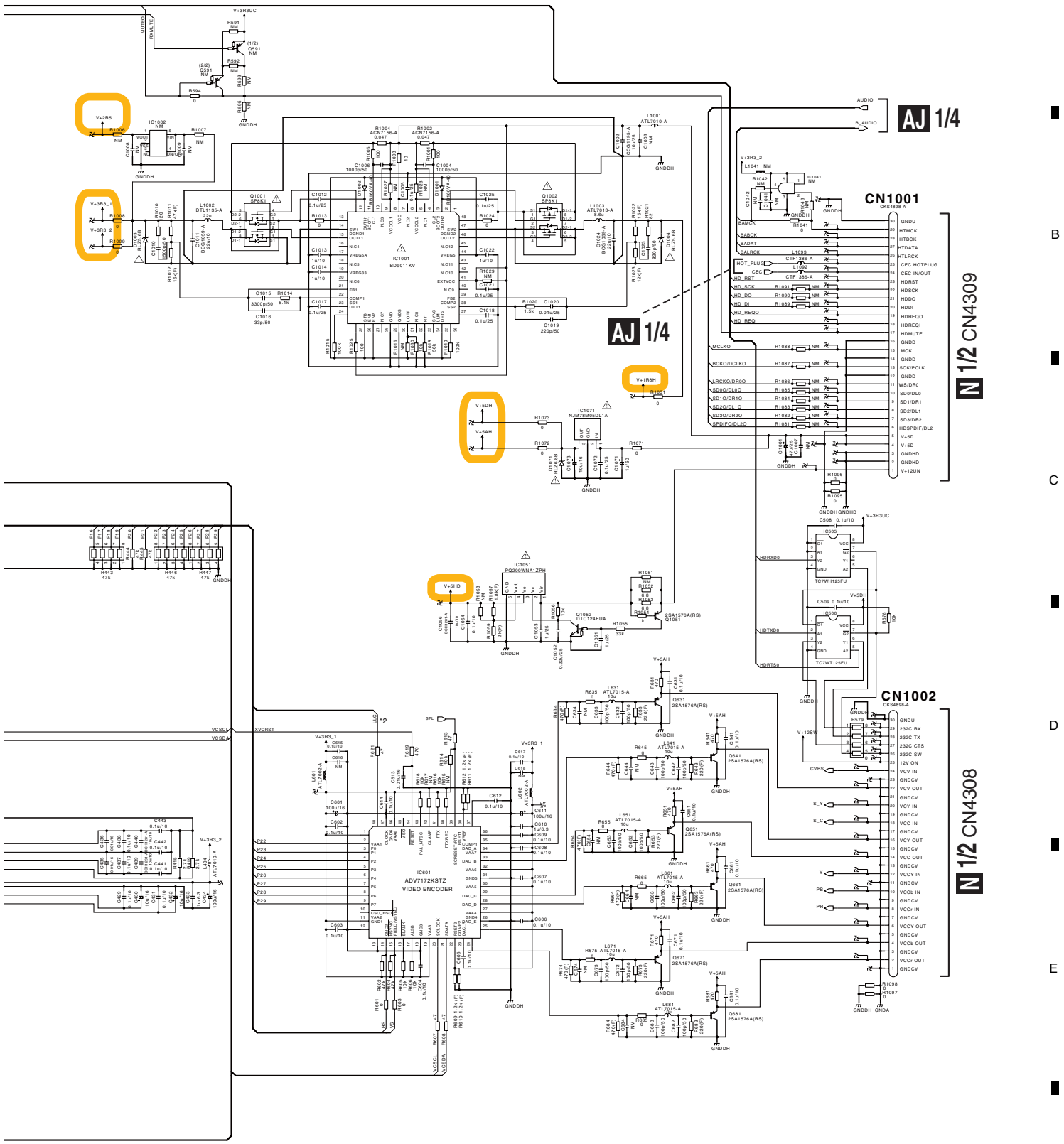
10.31 HDMI & DLNA ASSY (1/4) (VSX-94TXH)



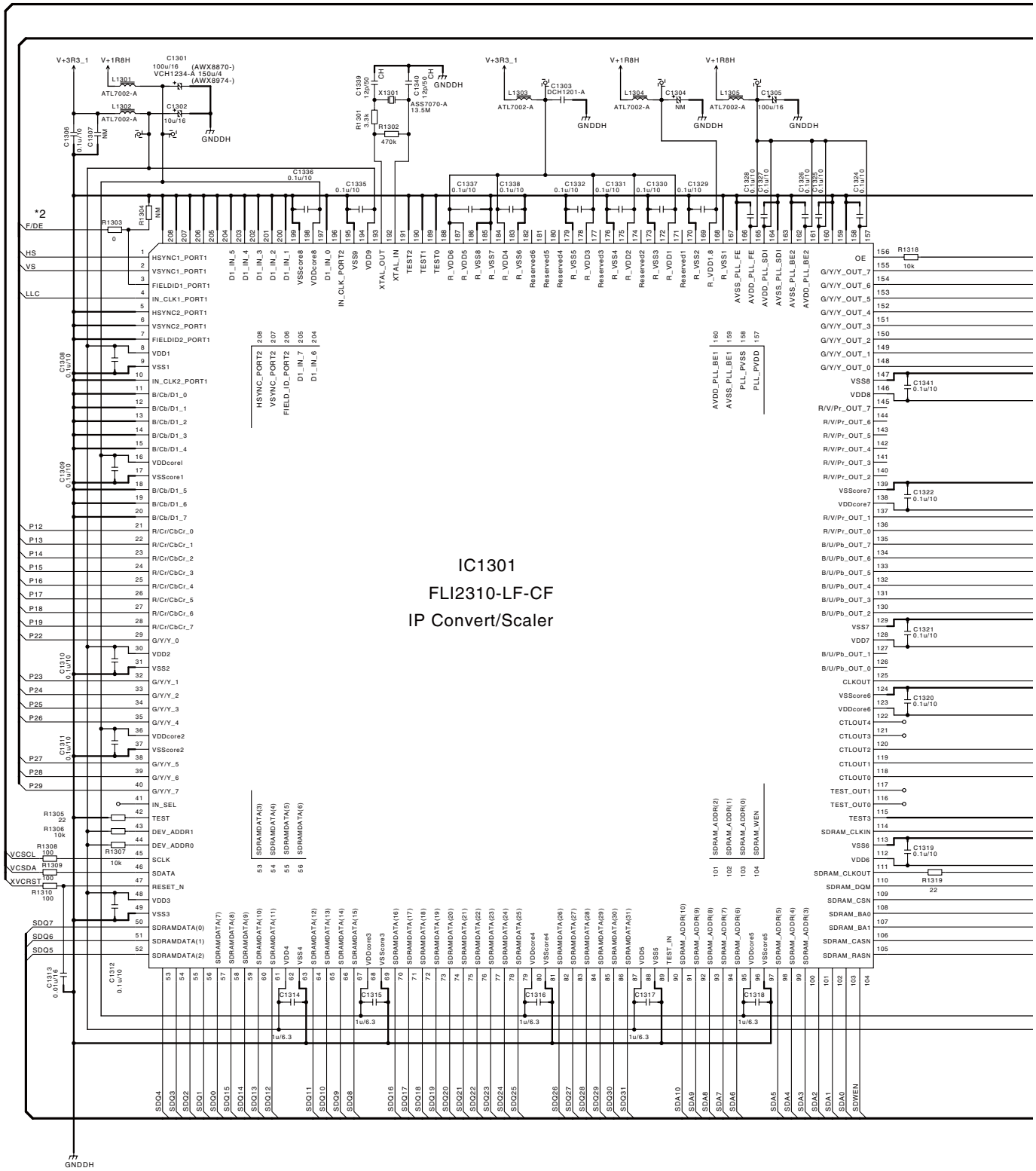

IC101
SII9135CTU
HDMI Receiver
IC301
SII9134CTU
HDMI Transmitter
AJ 2/4,3/4
AJ 2/4
AJ 2/4,3/4
AJ 2/4
AJ 2/4
JA301
HDMI OUT
AUDIO
UC
B_AUDIO
HOT_PLUG
CEC

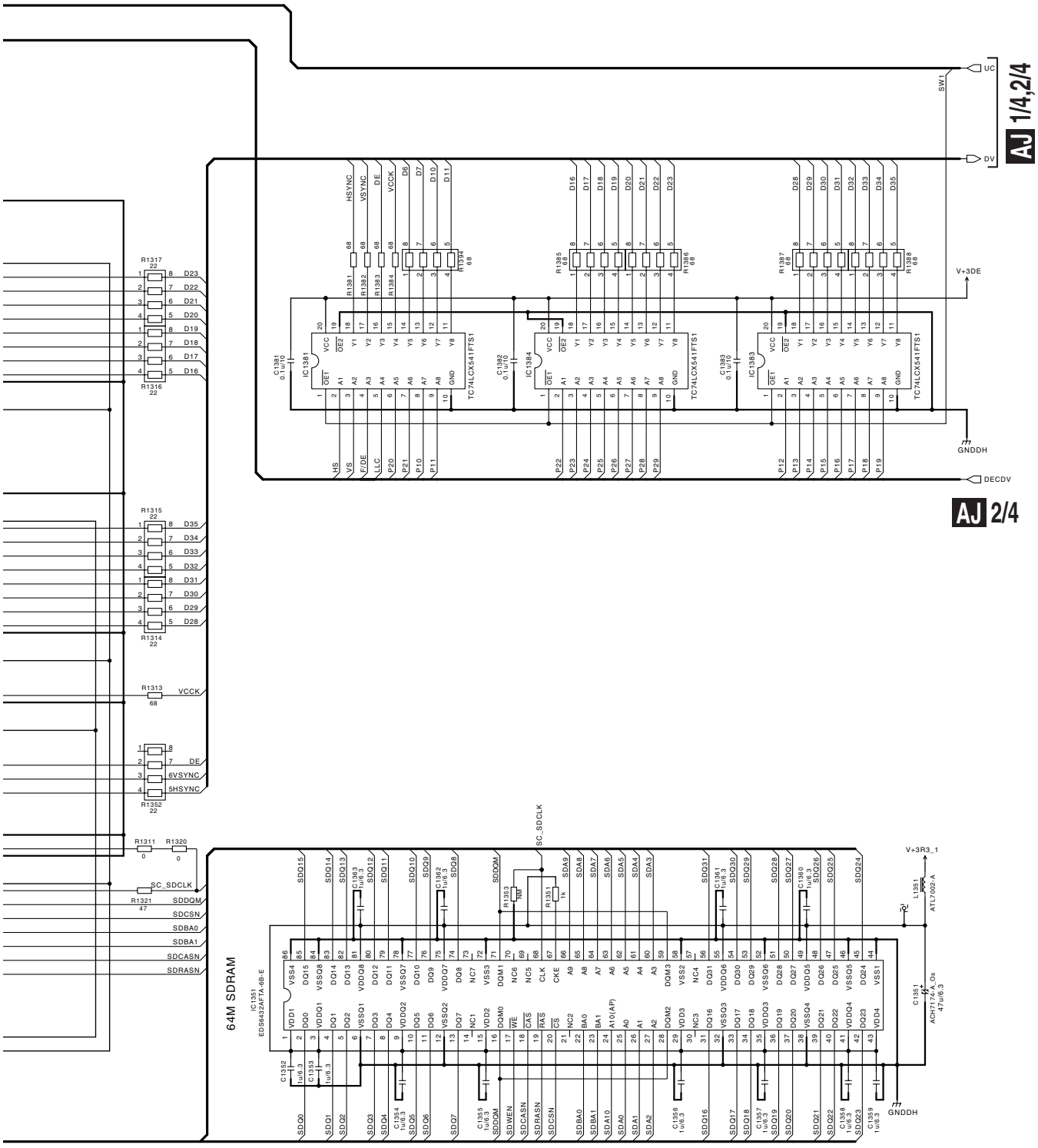
10.32 HDMI & DLNA ASSY (2/4) (VSX-94TXH)



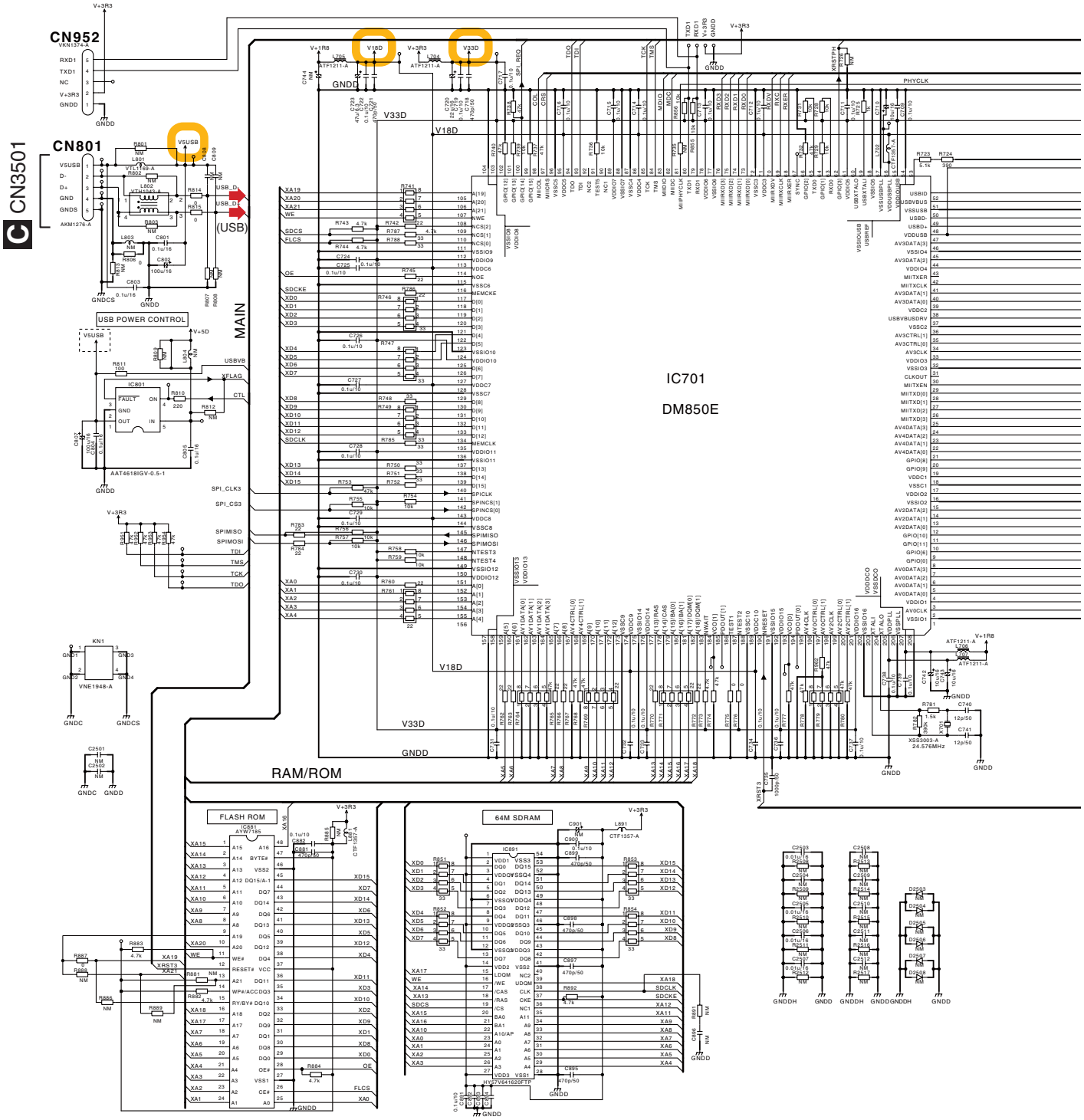

AJ 1/4
AJ 1/4
CN1001
CKS4898-A
N 1/2 CN4309
CN1002
CKS4898-A
N 1/2 CN4308
IC601
ADV7172KSTZ
VIDEO ENCODER
IC1001
BD9011KV
IC1051
PQ209WNA1ZPH
IC1071
NJM78M05DL1A
Q1051
2SA1576A(RS)
Q1052
DTC124EUA

10.33 HDMI & DLNA ASSY (3/4) (VSX-94TXH)

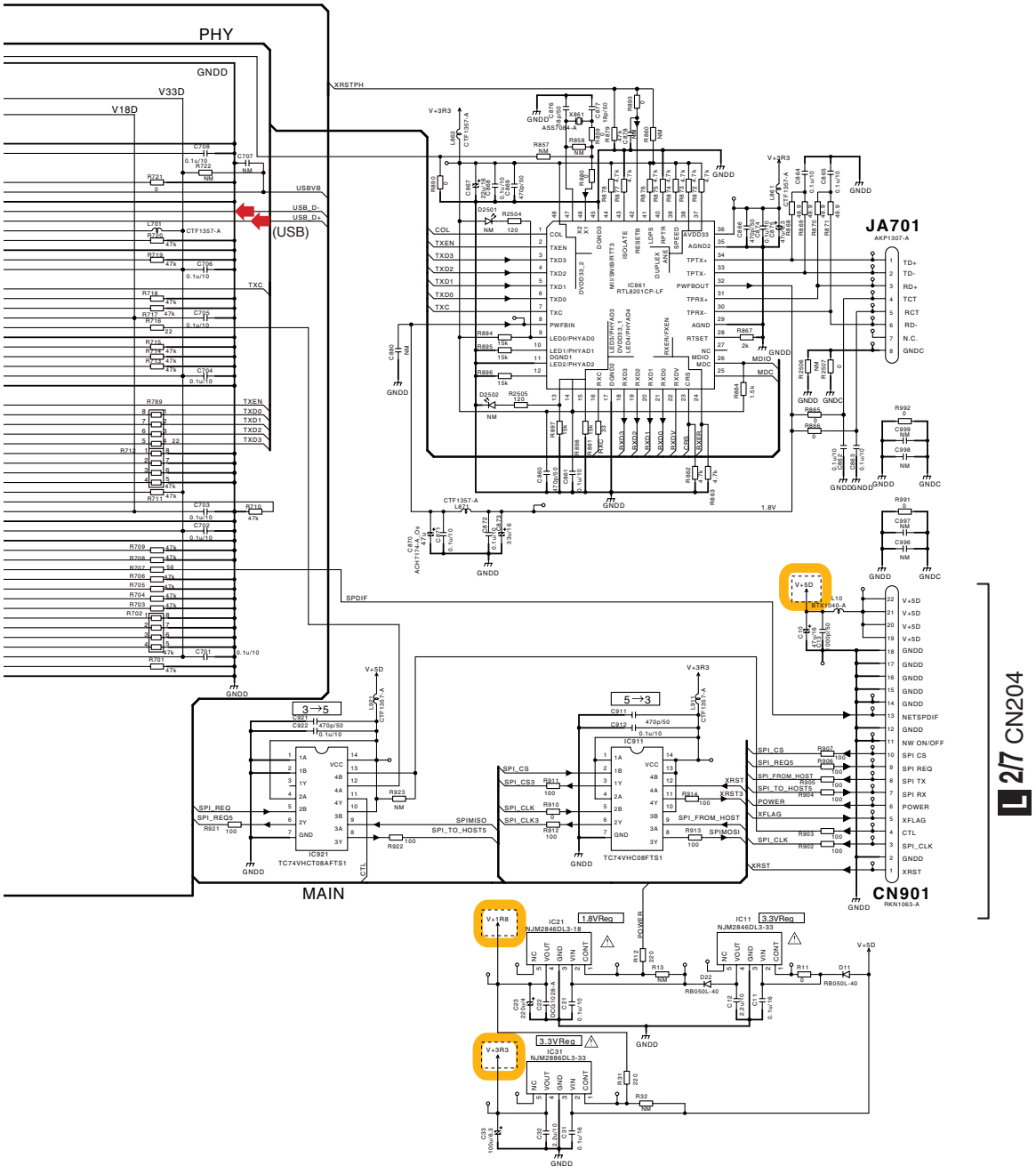



AJ 1/4,2/4
AJ 2/4
64M SDRAM
SC_SDCLK
SDDQM
SDCSN
SDBA0
SDBA1
SDCASN
SDRASN
VCCK
DE
6VSYNC
5HSYNC
HSYNC
VSYNC
DE
VCCK
D6
D7
D10
D11
D16
D17
D18
D19
D20
D21
D22
D23
D28
D29
D30
D31
D32
D33
D34
D35
V+3DE
V+3R3_1
GNDDH
DECDV
UC
DV
SW1
TC74LCX541FTS1
EDS6432AFTA-6B-E

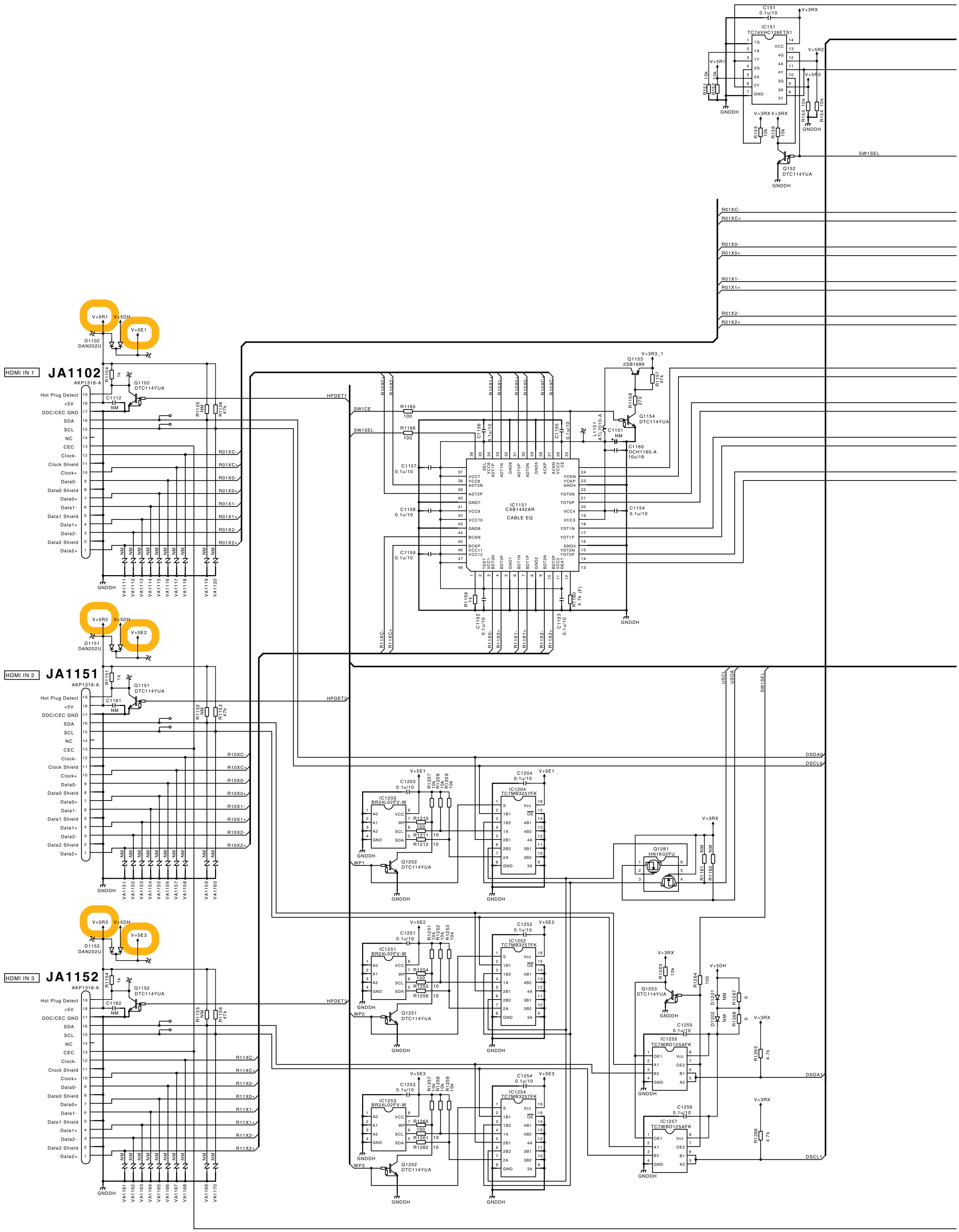
10.34 HDMI & DLNA ASSY (4/4) (VSX-94TXH)

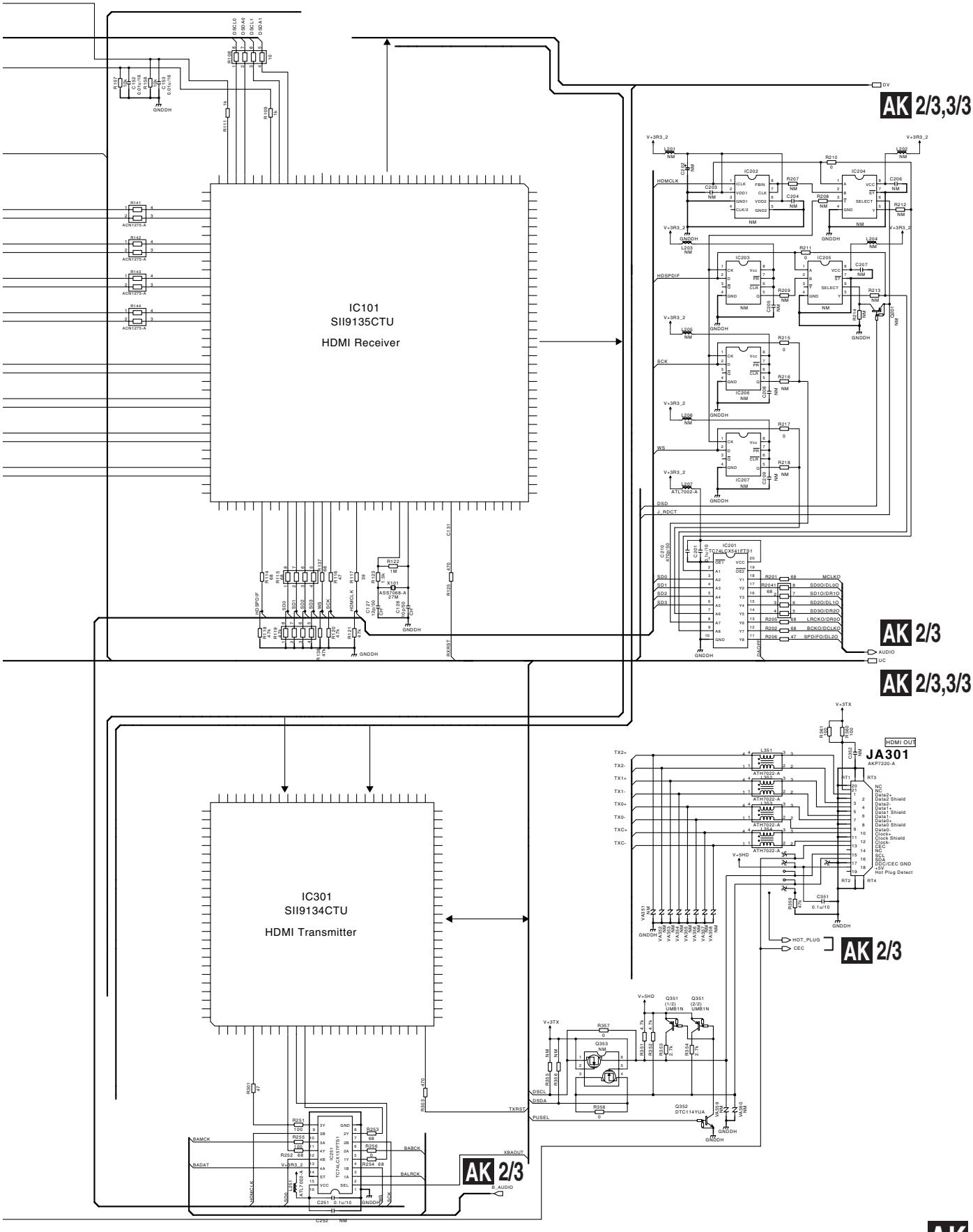


(USB) : AUDIO SIGNAL ROUTE (USB)

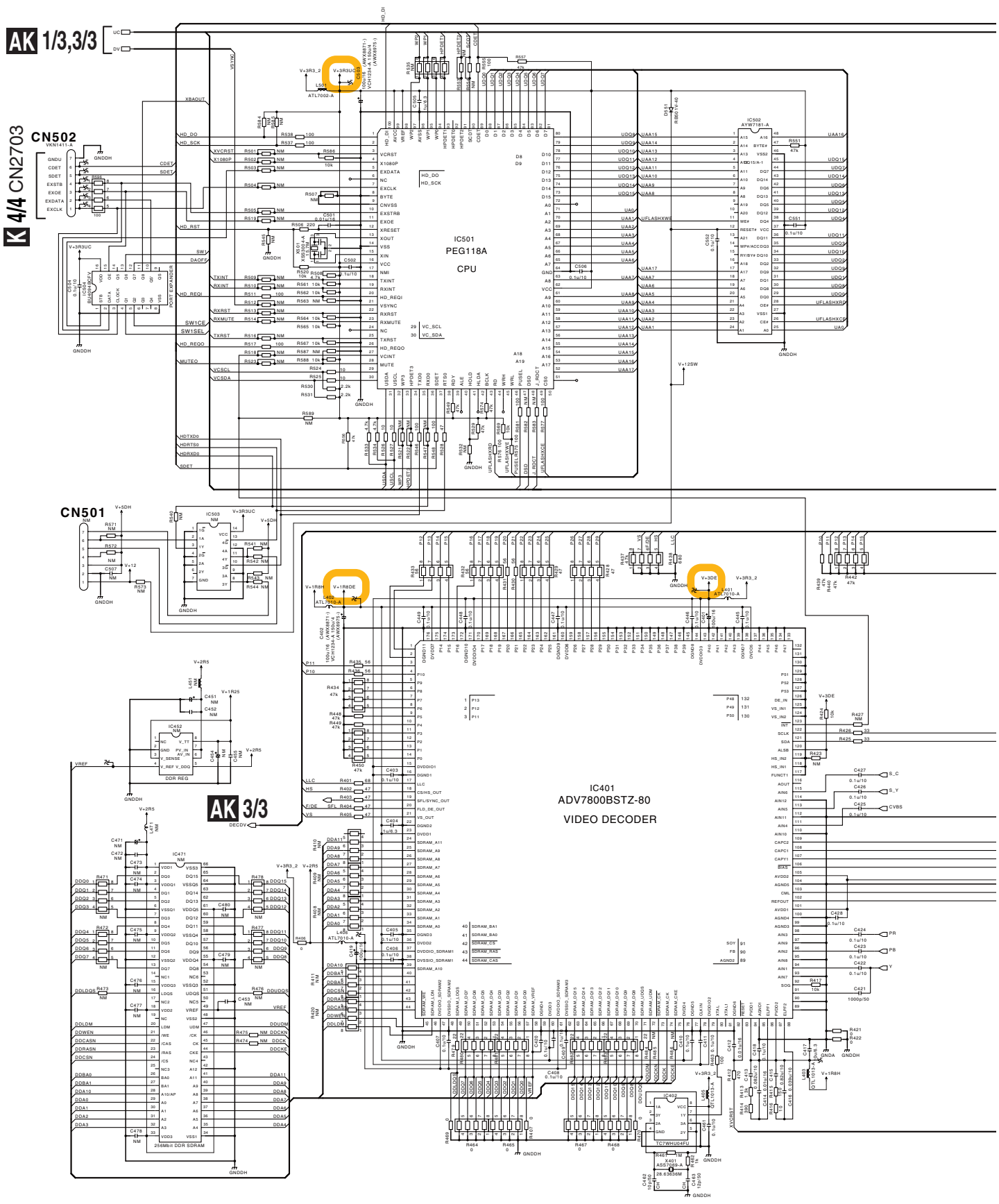


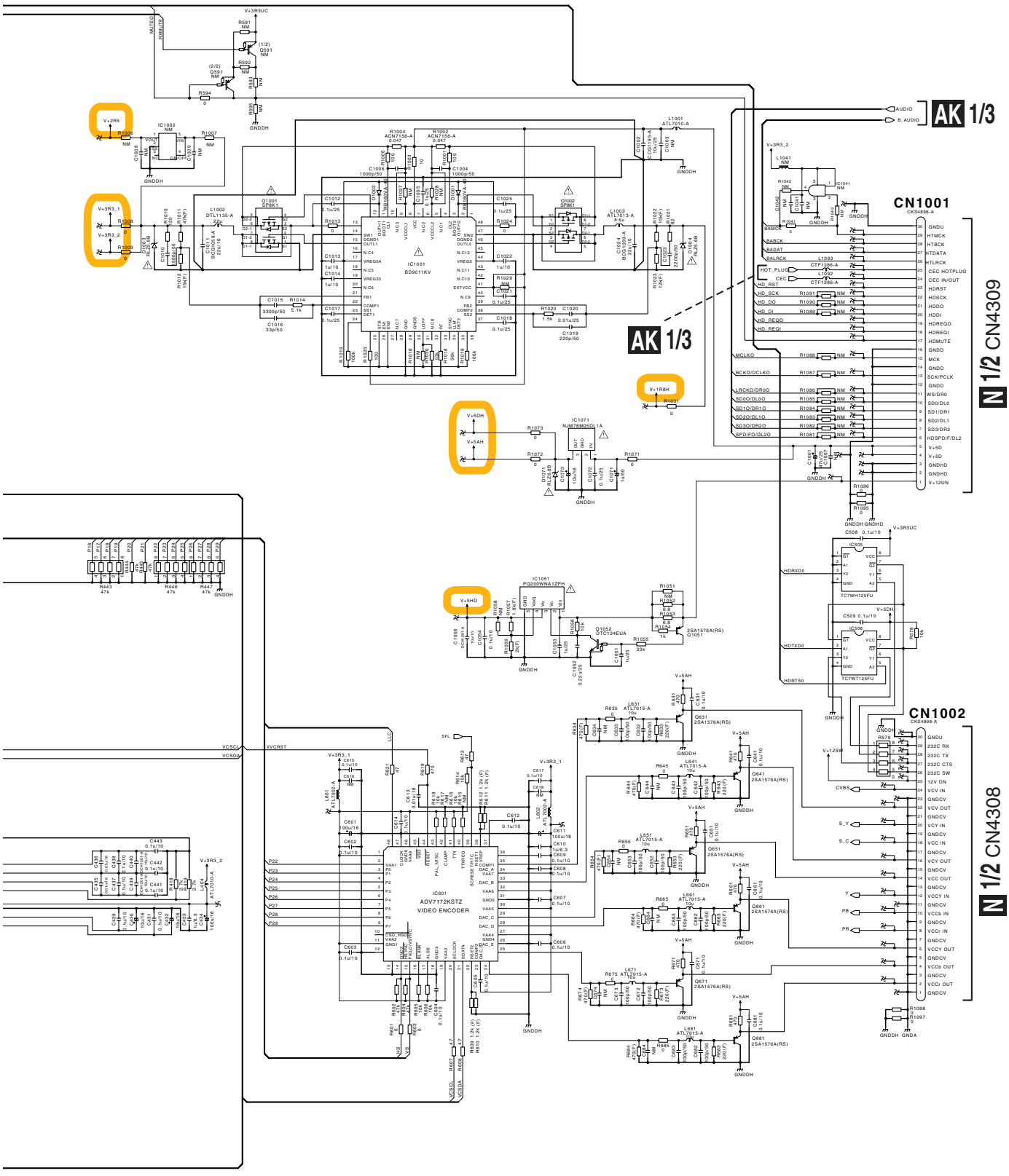
10.35 HDMI & DVC ASSY (1/3) (VSX-92TXH)



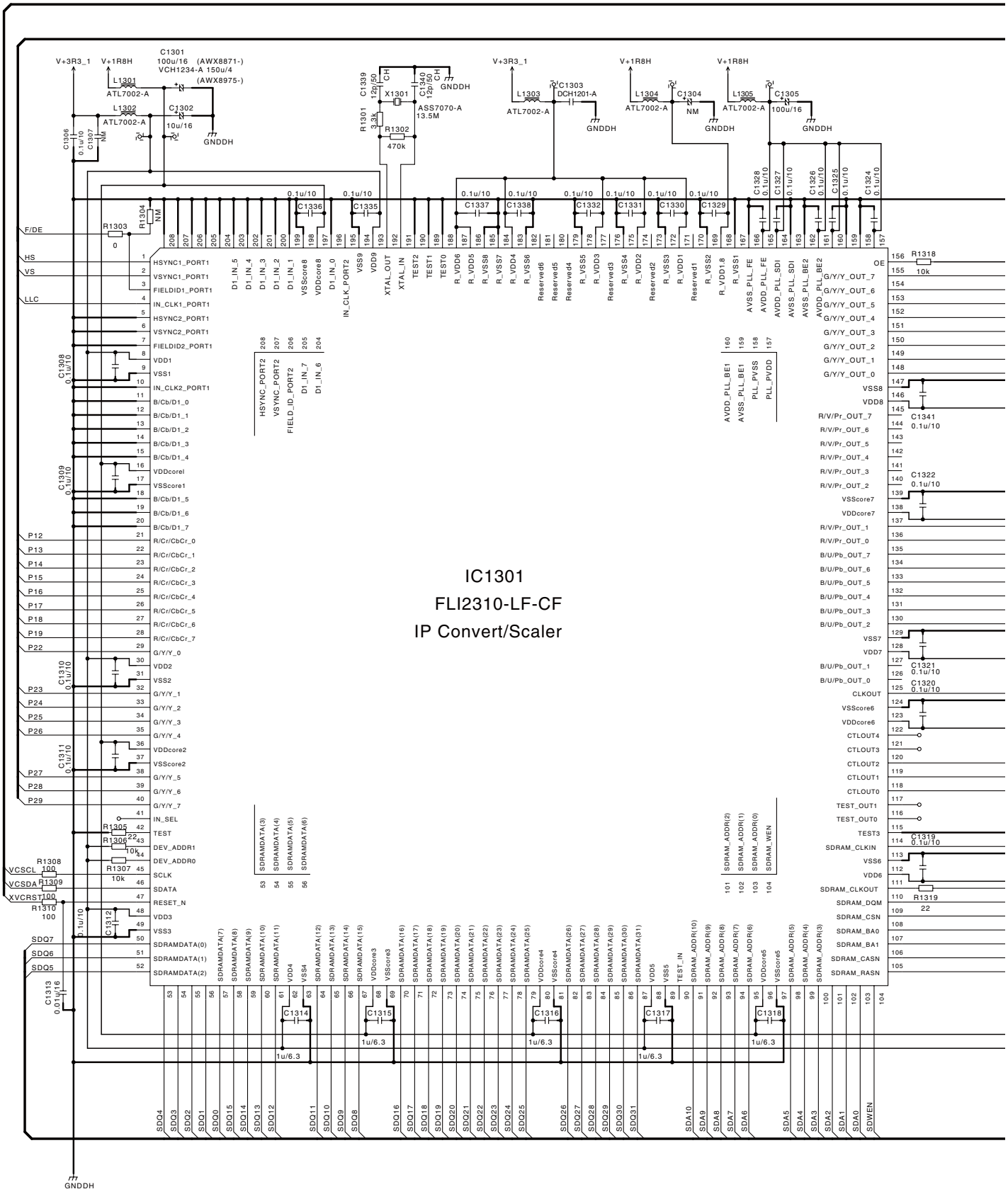

IC101
SII9135CTU
HDMI Receiver
IC301
SII9134CTU
HDMI Transmitter
AK 2/3,3/3
AK 2/3
AK 2/3,3/3
AK 2/3
AK 2/3
AK 1/3
JA301
AKP7220-A
HDMI OUT
DV
AUDIO
UC
HOT_PLUG
CEC
MCLKO
SD0O/DL0O
SD1O/DR1O
SD2O/DL1O
SD3O/DR2O
LRCKO/DR0O
BCKO/DCLKO
SPDIFO/DL2O
V+3R3_2
V+5HD
V+3TX
GNDDH

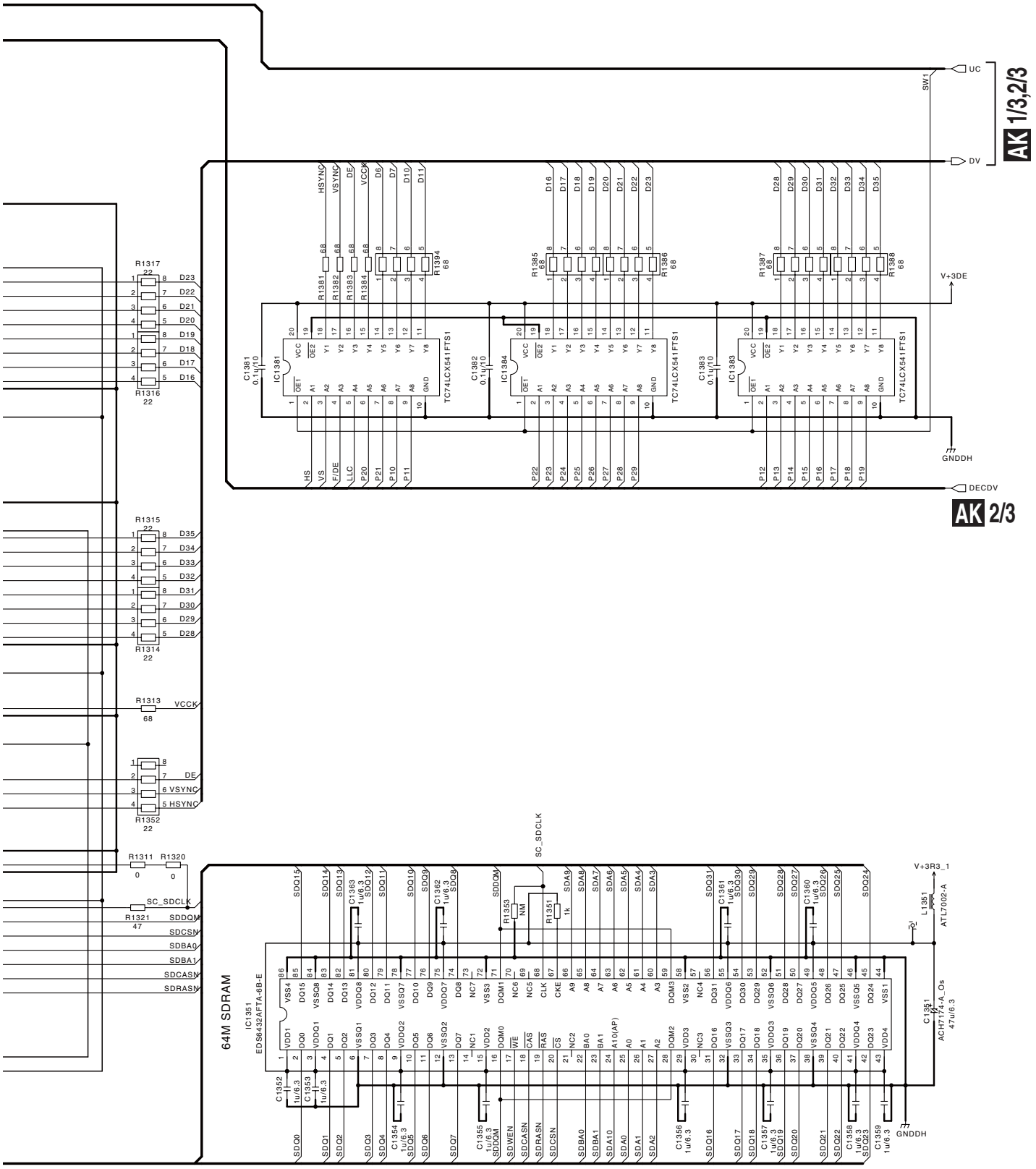
10.36 HDMI & DVC ASSY (2/3) (VSX-92TXH)



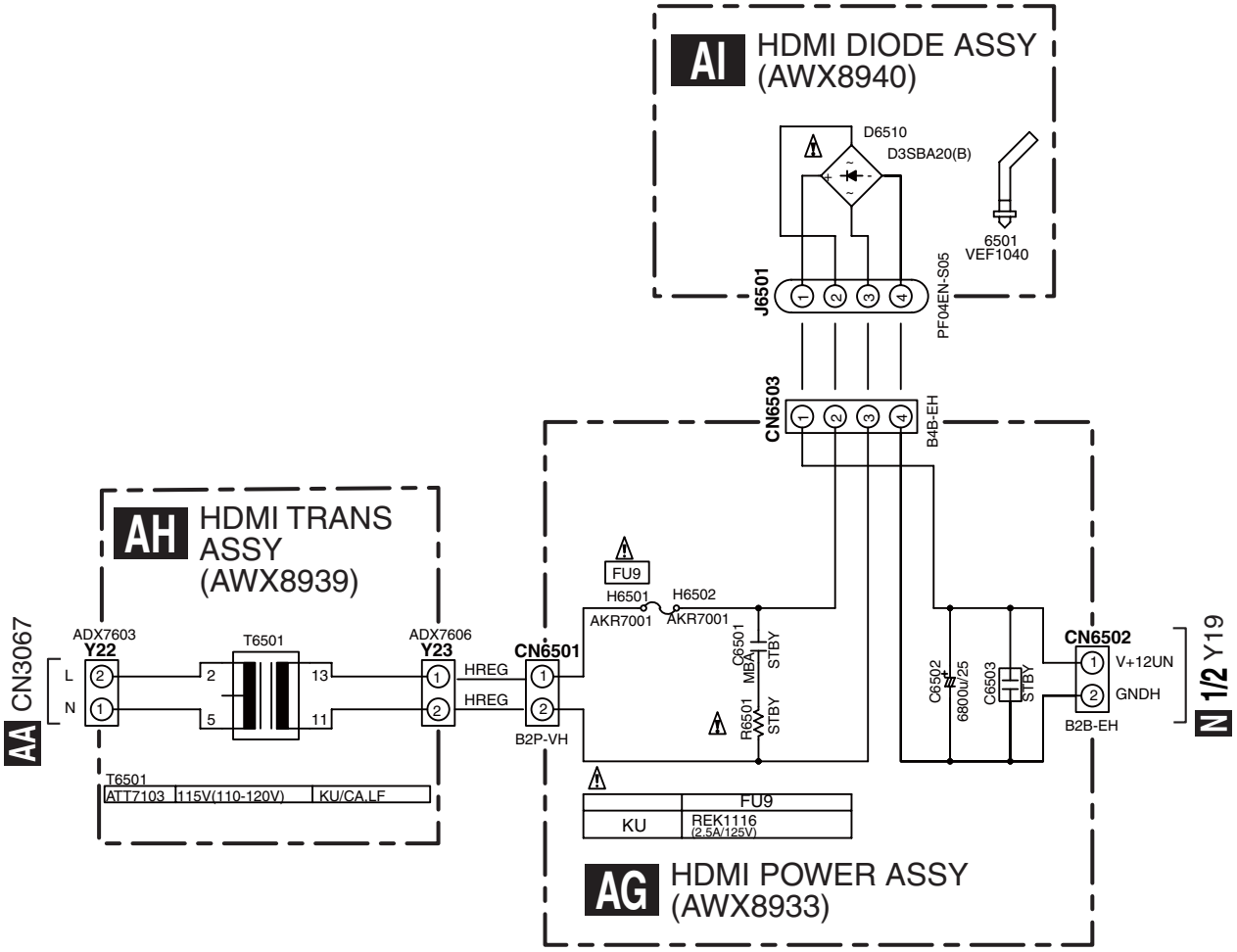

AK 1/3
AK 1/3
CN1001
CKS4898-A
N 1/2 CN4309
CN1002
CKS4898-A
N 1/2 CN4308
IC1001
BD9011KV
IC1002
IC601
ADV7172KSTZ
VIDEO ENCODER
IC1051
PQ200WNA12PH
IC1071
NJM78M05DL-1A
Q1051
2SA1576A(RS)
Q631
2SA1576A(RS)
Q641
2SA1576A(RS)
Q651
2SA1576A(RS)
Q661
2SA1576A(RS)
Q671
2SA1576A(RS)
Q681
2SA1576A(RS)
IC2005
TC7WH125FU
IC2006
TC7WT125FU
IC2007
TC7WT125FU
AUDIO
B_AUDIO
V+3R3UC
V+2R5
V+3R3_1
V+3R3_2
V+1R8H
V+5DH
V+5AH
V+5HD
V+12SW
GNDDH
GNDA
HDRXD0
HDTXD0
HDRTS0
VCSCL
VCSDA
XVCRST
CVBS
S_Y
S_C
Y
PB
PR

10.37 HDMI & DVC ASSY (3/3) (VSX-92TXH)




AK 1/3,2/3
UC
DV
SW1
AK 2/3
V+3DE
GNDDH
DECDV
HSYNC
VSYNC
DE
VCCK
D7
D8
D10
D11
D16
D17
D18
D19
D20
D21
D22
D23
D28
D29
D30
D31
D32
D33
D34
D35
R1317
R1316
R1315
R1314
R1313
R1352
R1311
R1320
R1321
SC_SDCLK
SDDQM
SDCSN
SDBA0
SDBA1
SDCASN
SDRASN
64M SDRAM
IC1351
EDS6432AFTA-6B-E
IC1361
ACH7174-A_Os
L1351
ATL7002-A
V+3R3_1
TC74LCX541FTS1
IC1381
IC1382
IC1383
IC1384
HS
VS
F/DE
LLC
P20
P21
P10
P11
P22
P23
P24
P25
P26
P27
P28
P29
P12
P13
P14
P15
P16
P17
P18
P19

10.38 HDMI POWER, HDMI TRANS and HDMI DIODE ASSYS



AG AH AI

AG AH AI

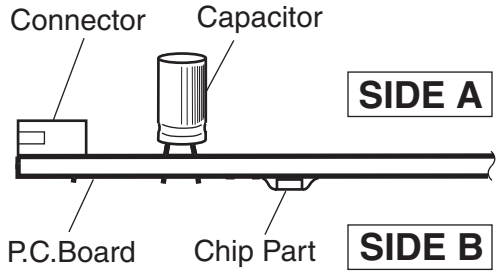
11. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

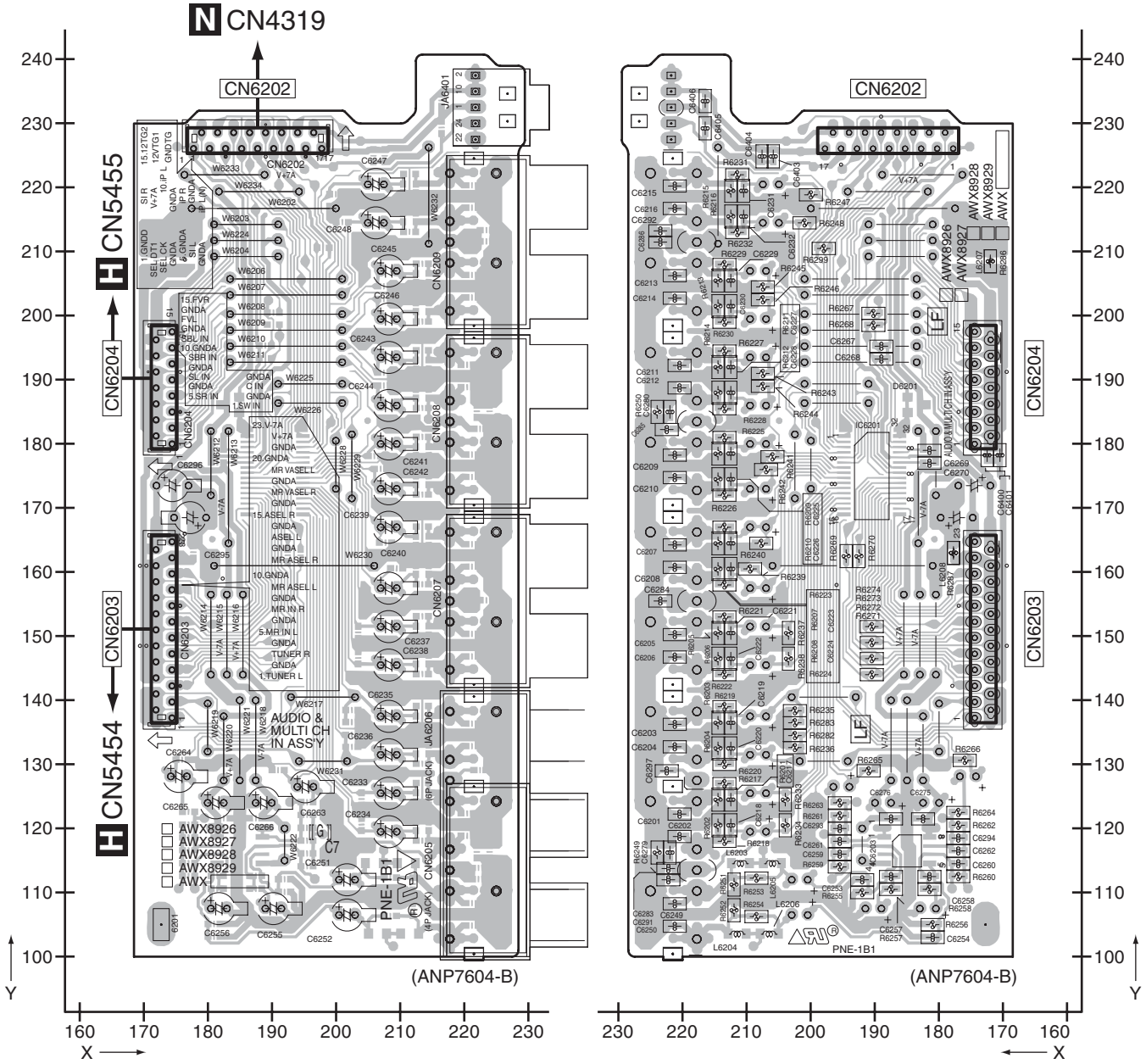
3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



11.1 AUDIO & MULTI CH IN ASSY

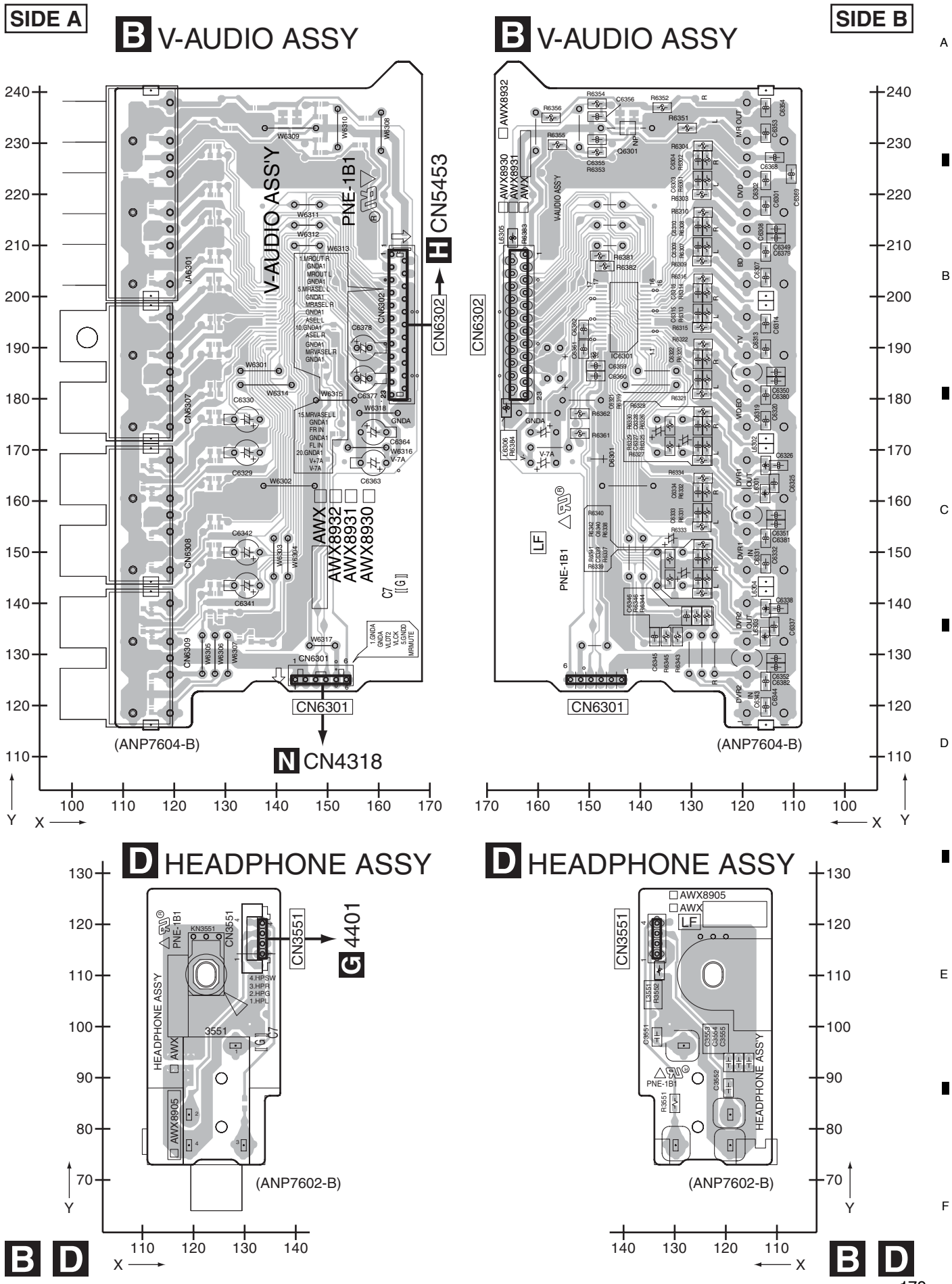
SIDE A **SIDE B**

A AUDIO & MULTI CH IN ASSY



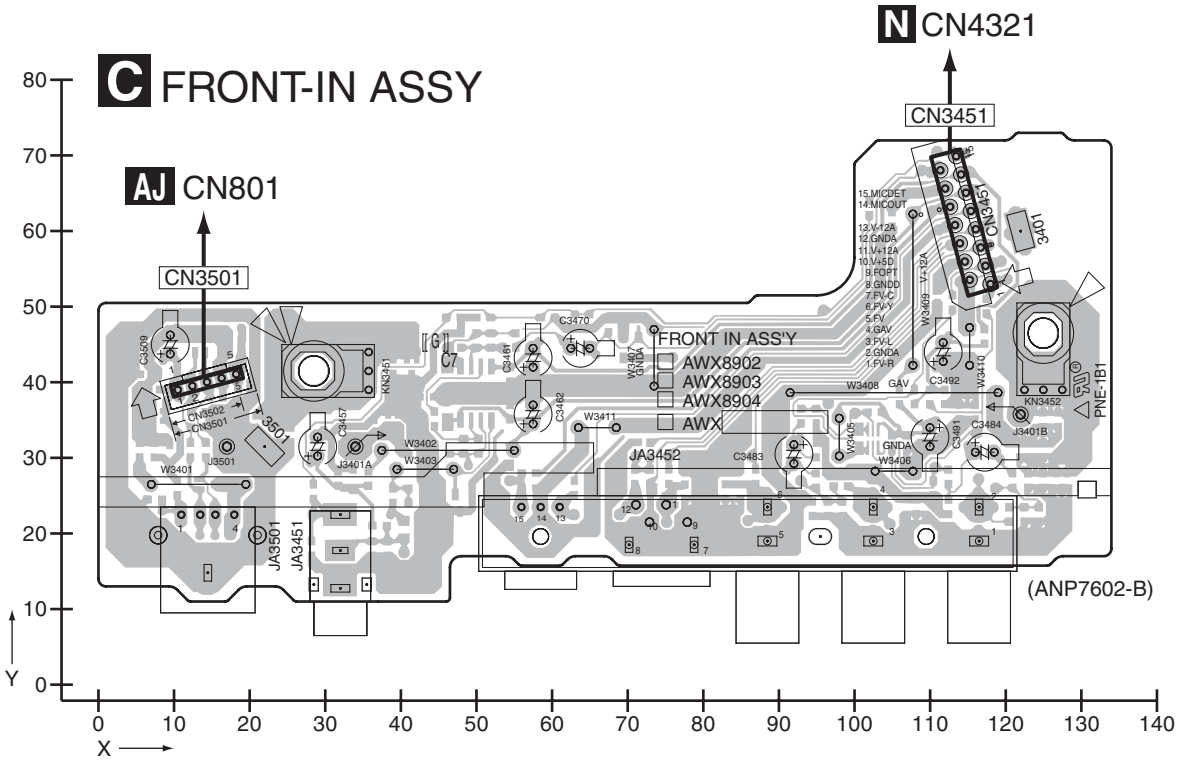
A AUDIO & MULTI CH IN ASSY

11.2 V-AUDIO and HEADPHONE ASSYS

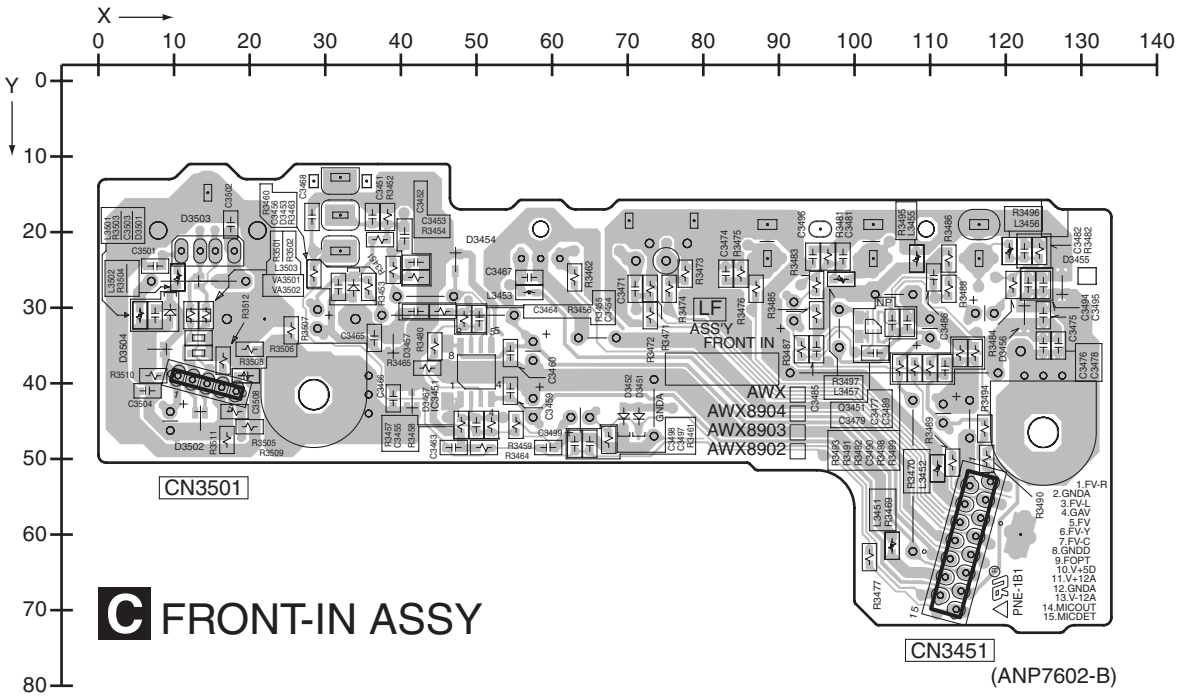


11.3 FRONT-IN ASSY

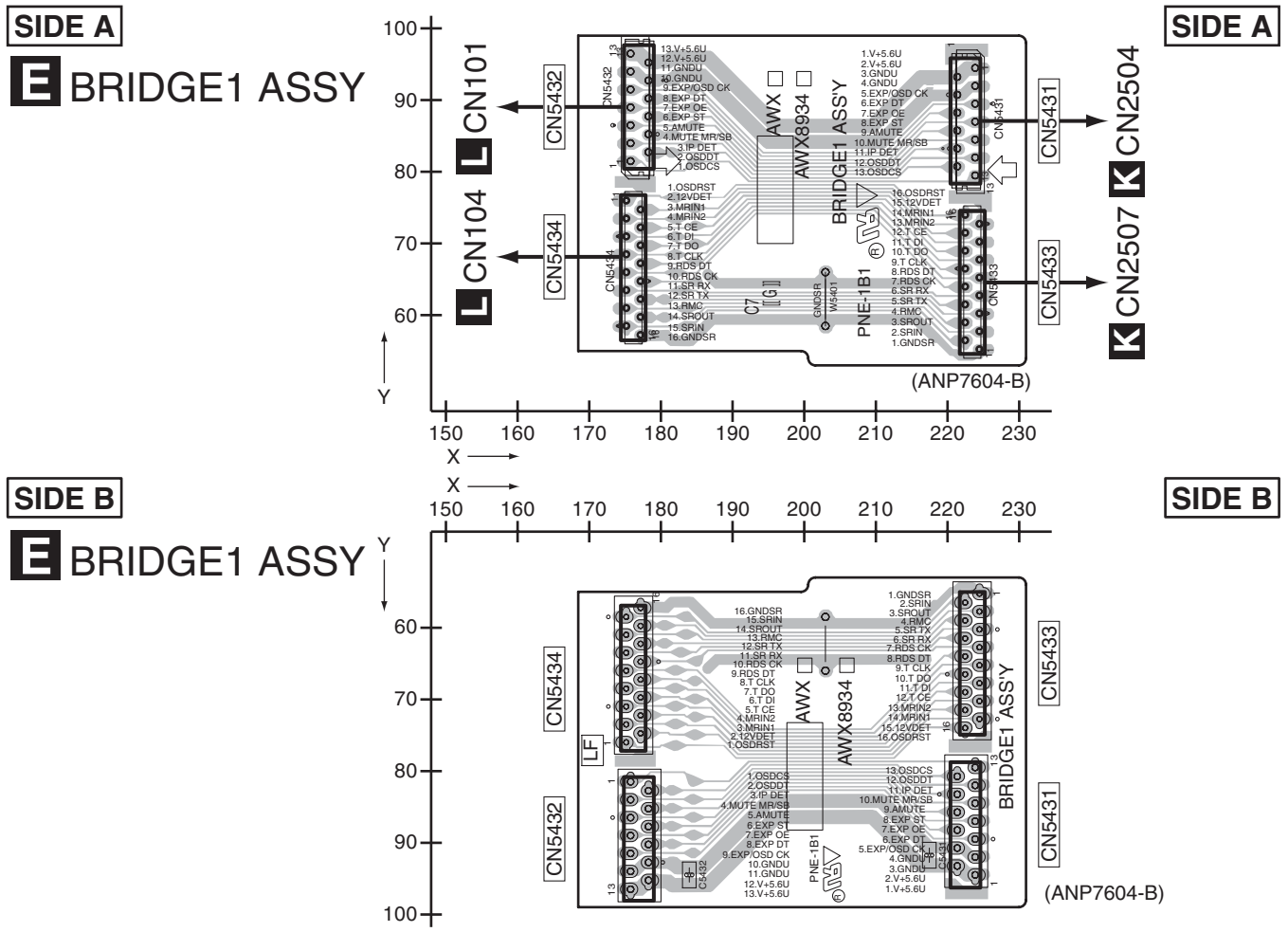
SIDE A

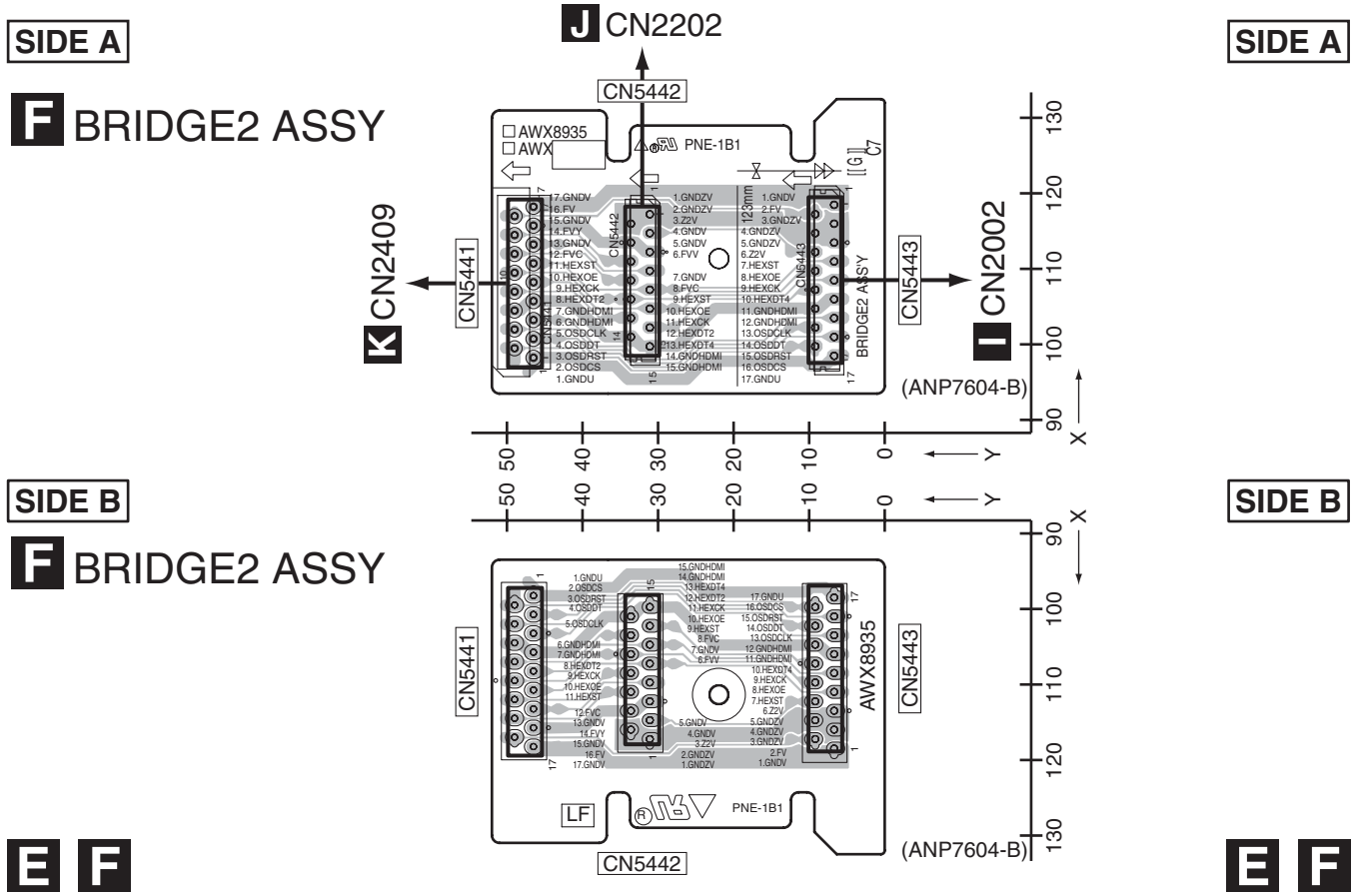


SIDE B



11.4 BRIDGE1 and BRIDGE2 ASSYS

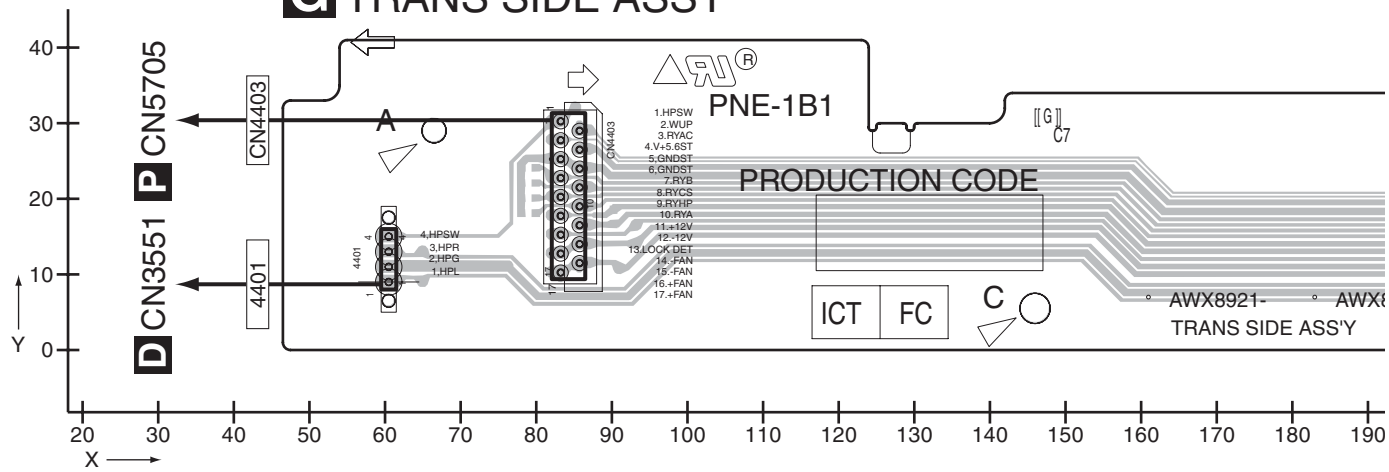




11.5 TRANS SIDE and BRIDGE3 ASSYS

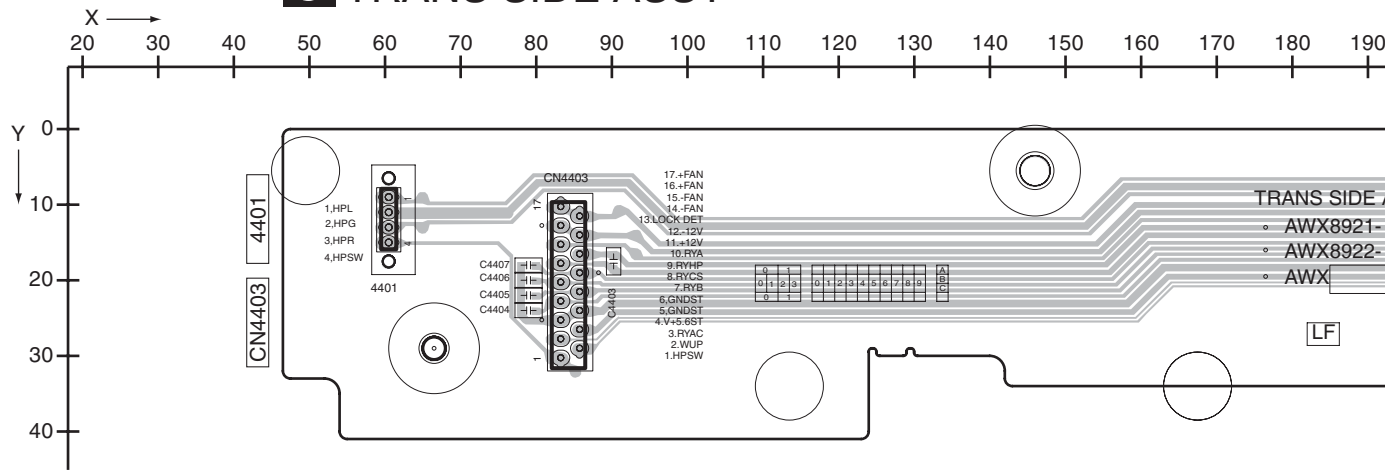
SIDE A

G TRANS SIDE ASSY



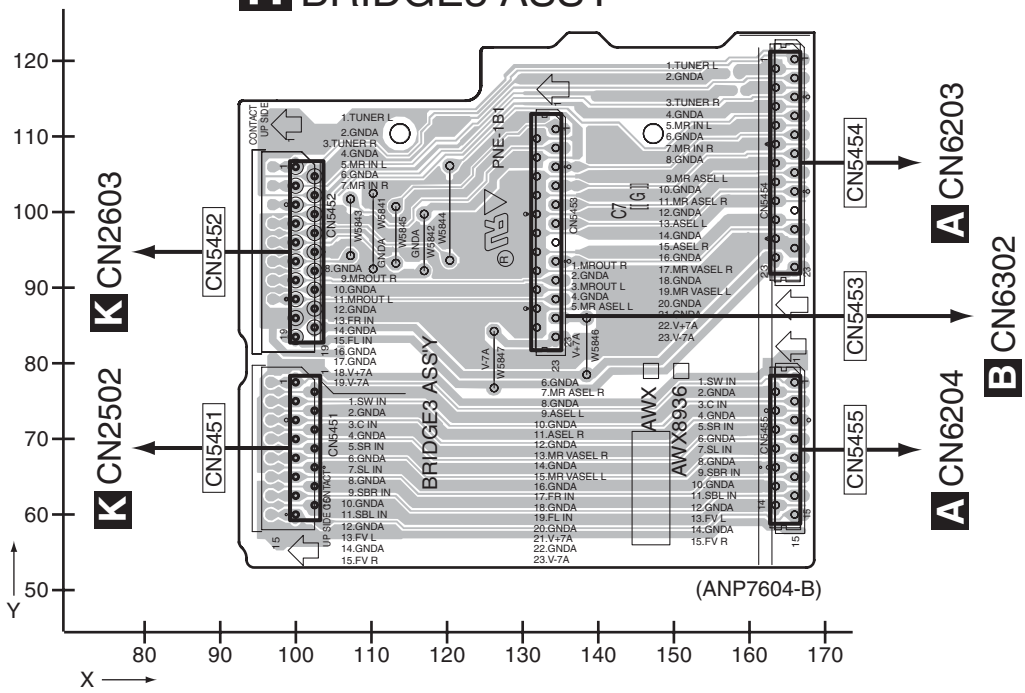
SIDE B

G TRANS SIDE ASSY



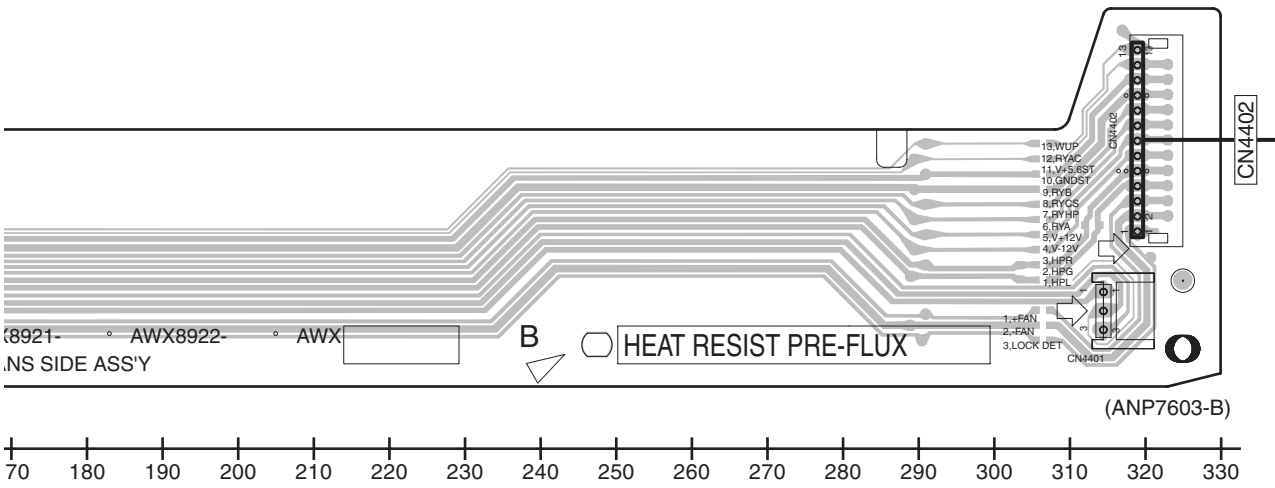
SIDE A

H BRIDGE3 ASSY

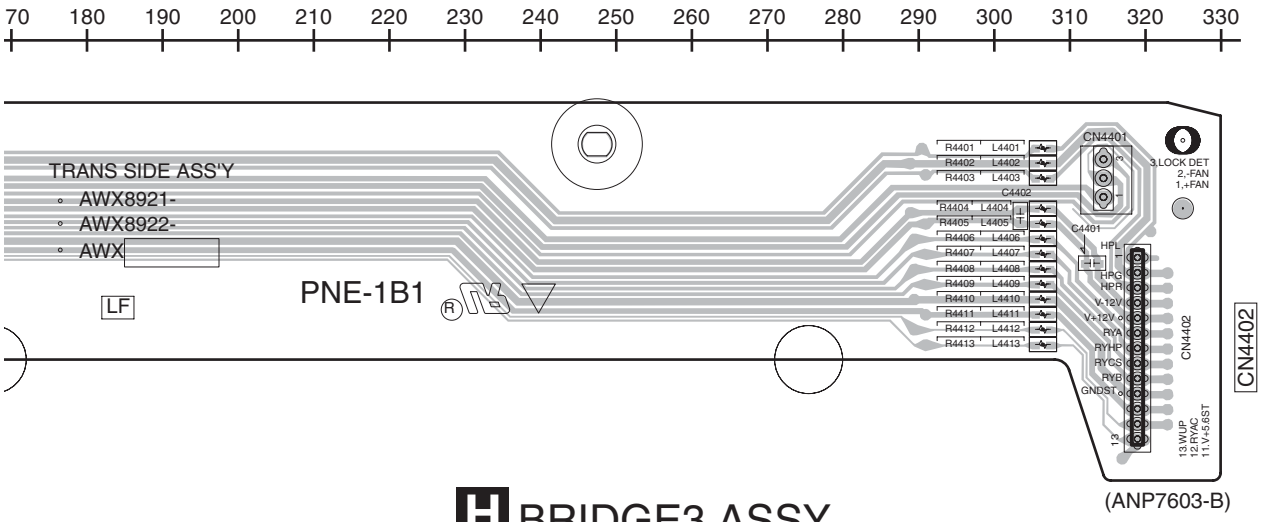


G **H**

SIDE A

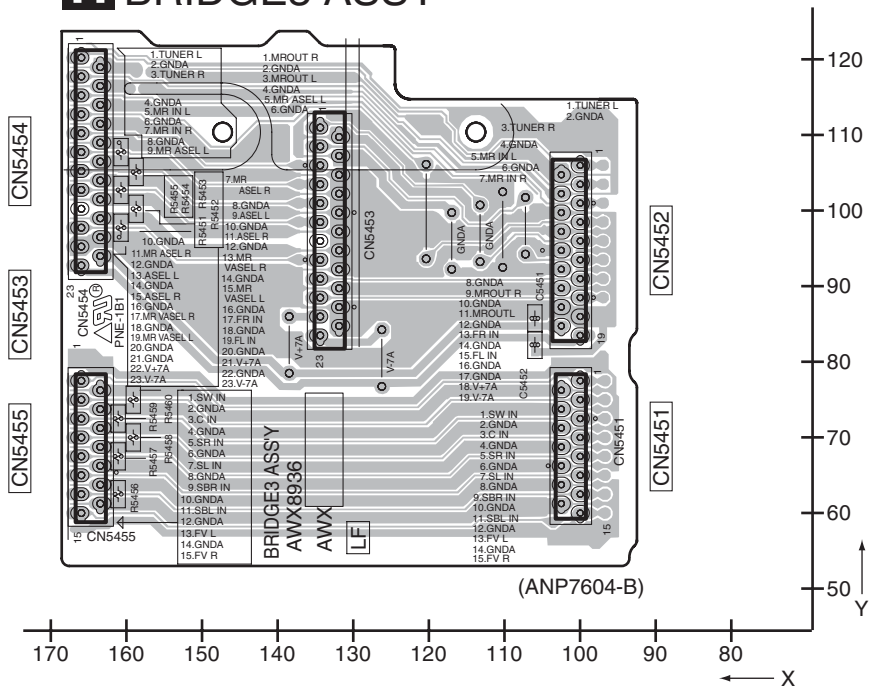


SIDE B



SIDE B

H BRIDGE3 ASSY

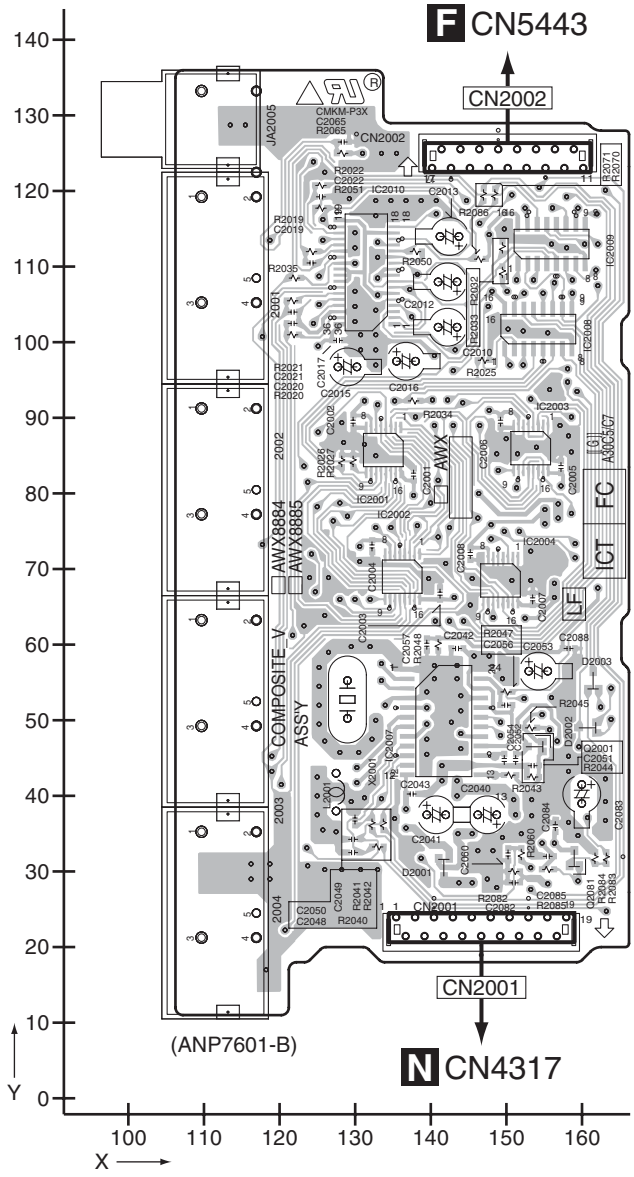


11.6 COMPOSITE V ASSY

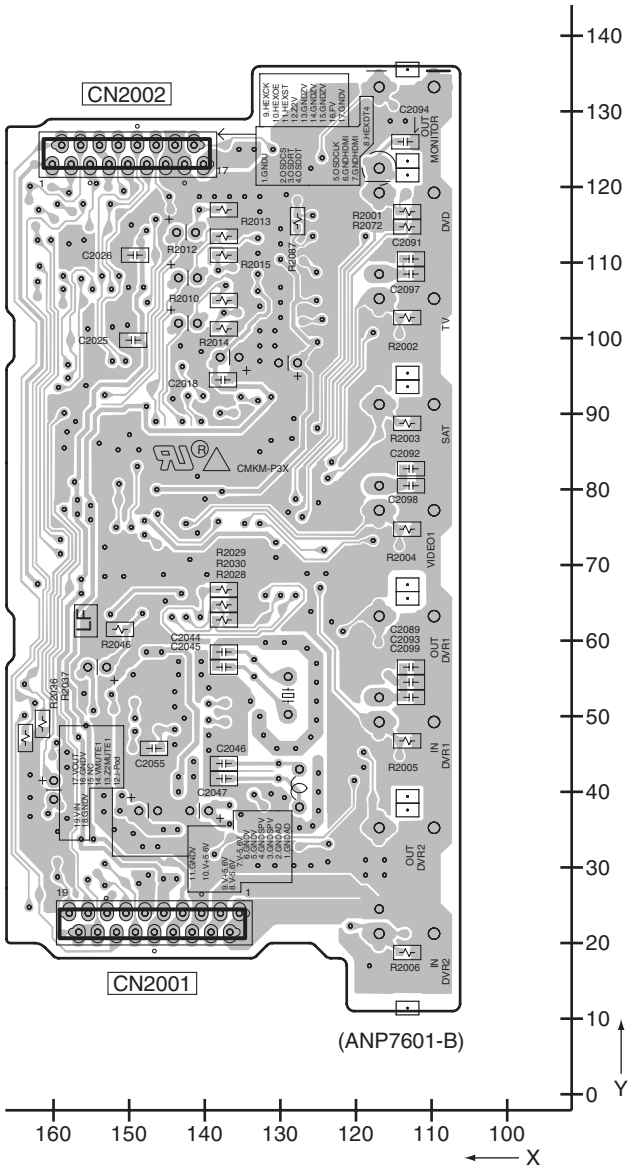
SIDE A

SIDE B

I COMPOSITE V ASSY

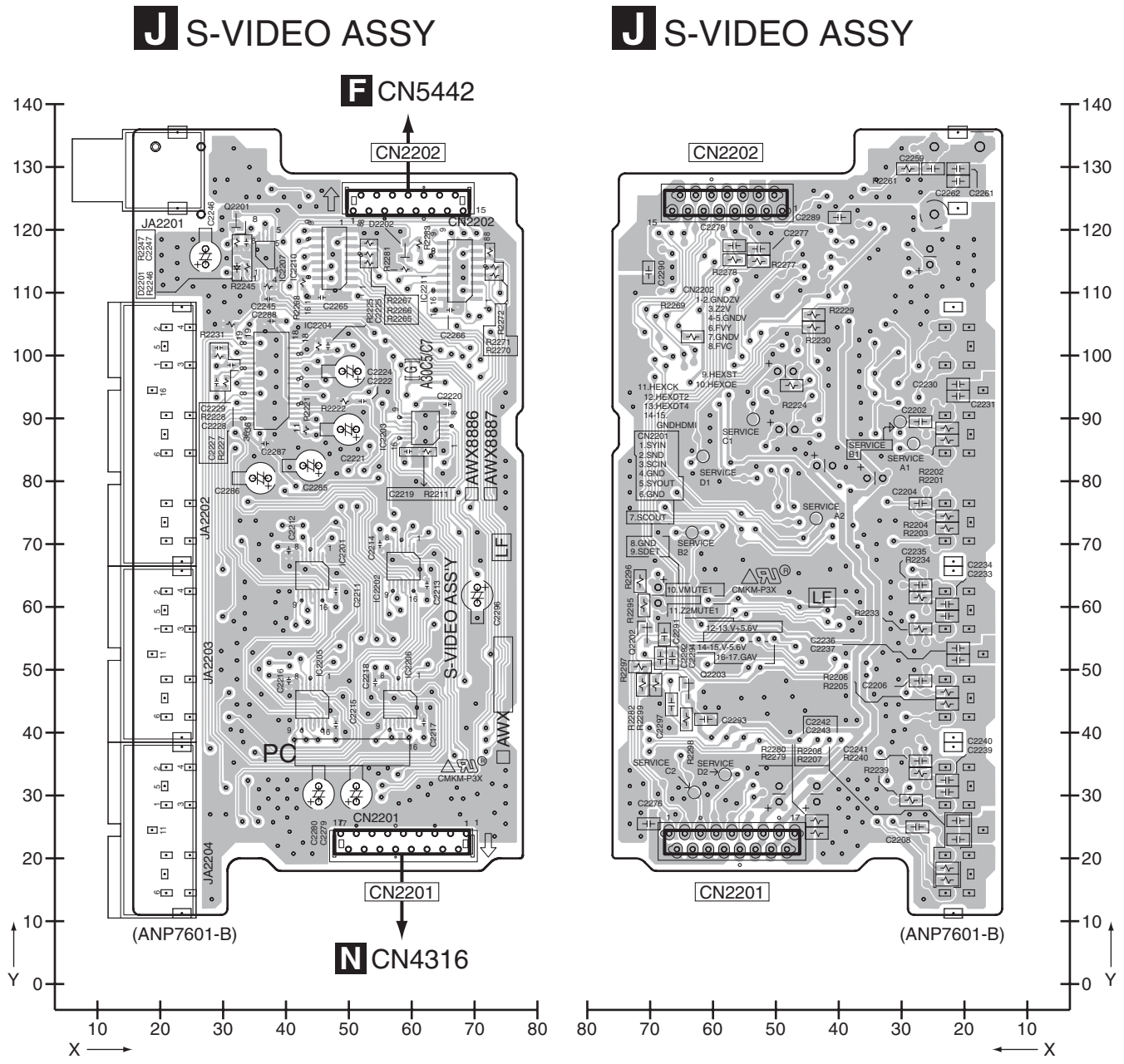


I COMPOSITE V ASSY



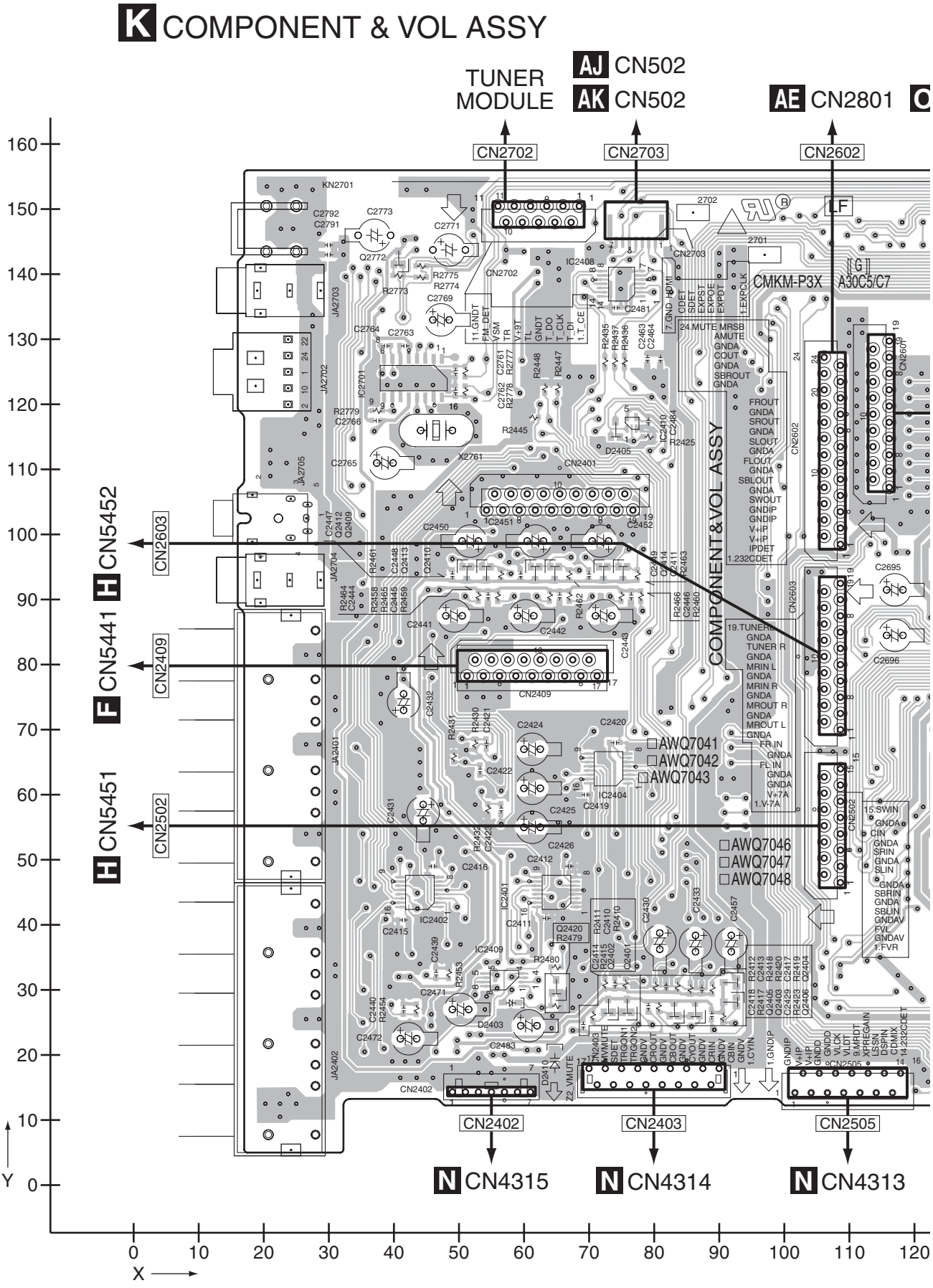
11.7 S-VIDEO ASSY

SIDE A **SIDE B**

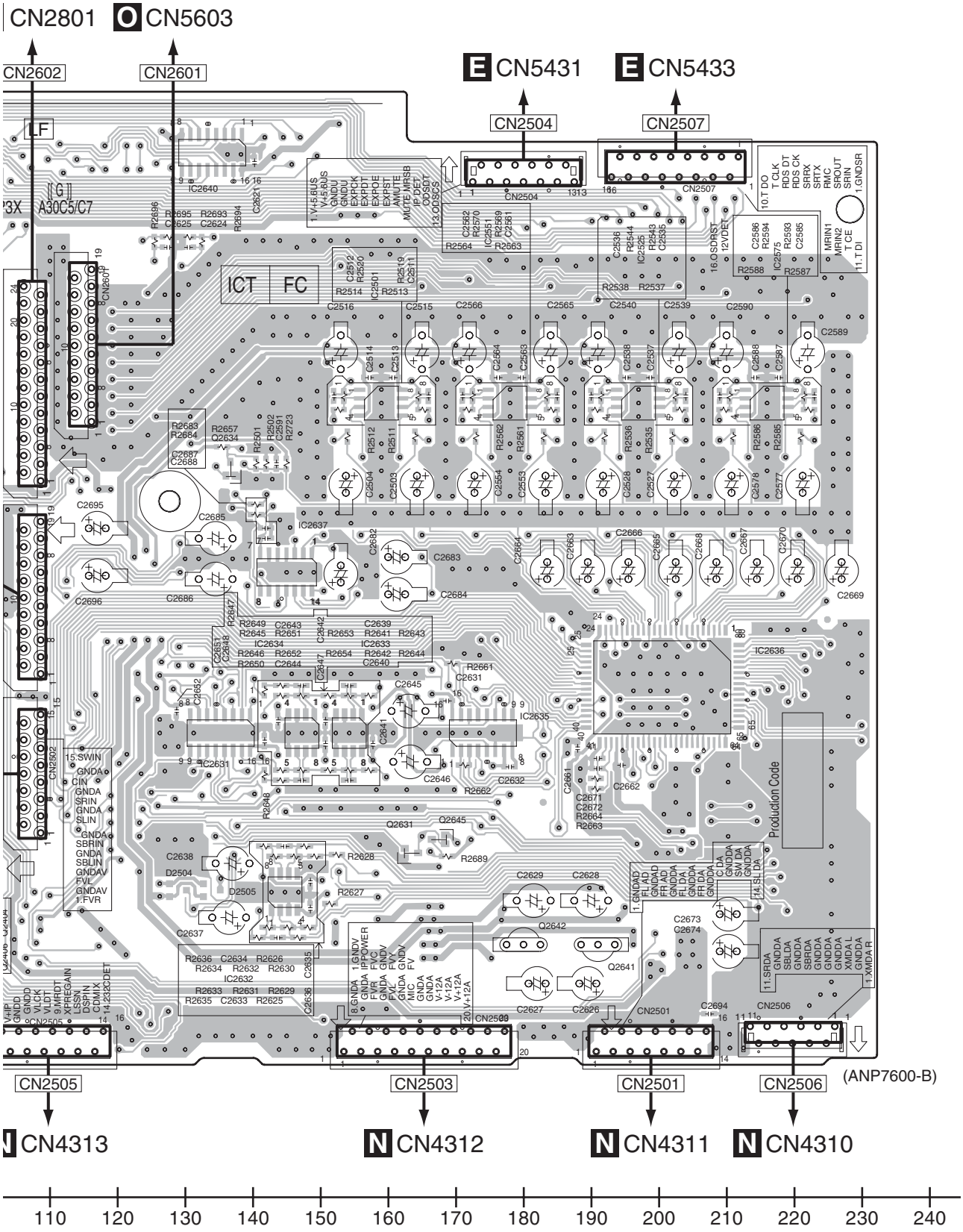


11.8 COMPONENT & VOL ASSY

SIDE A

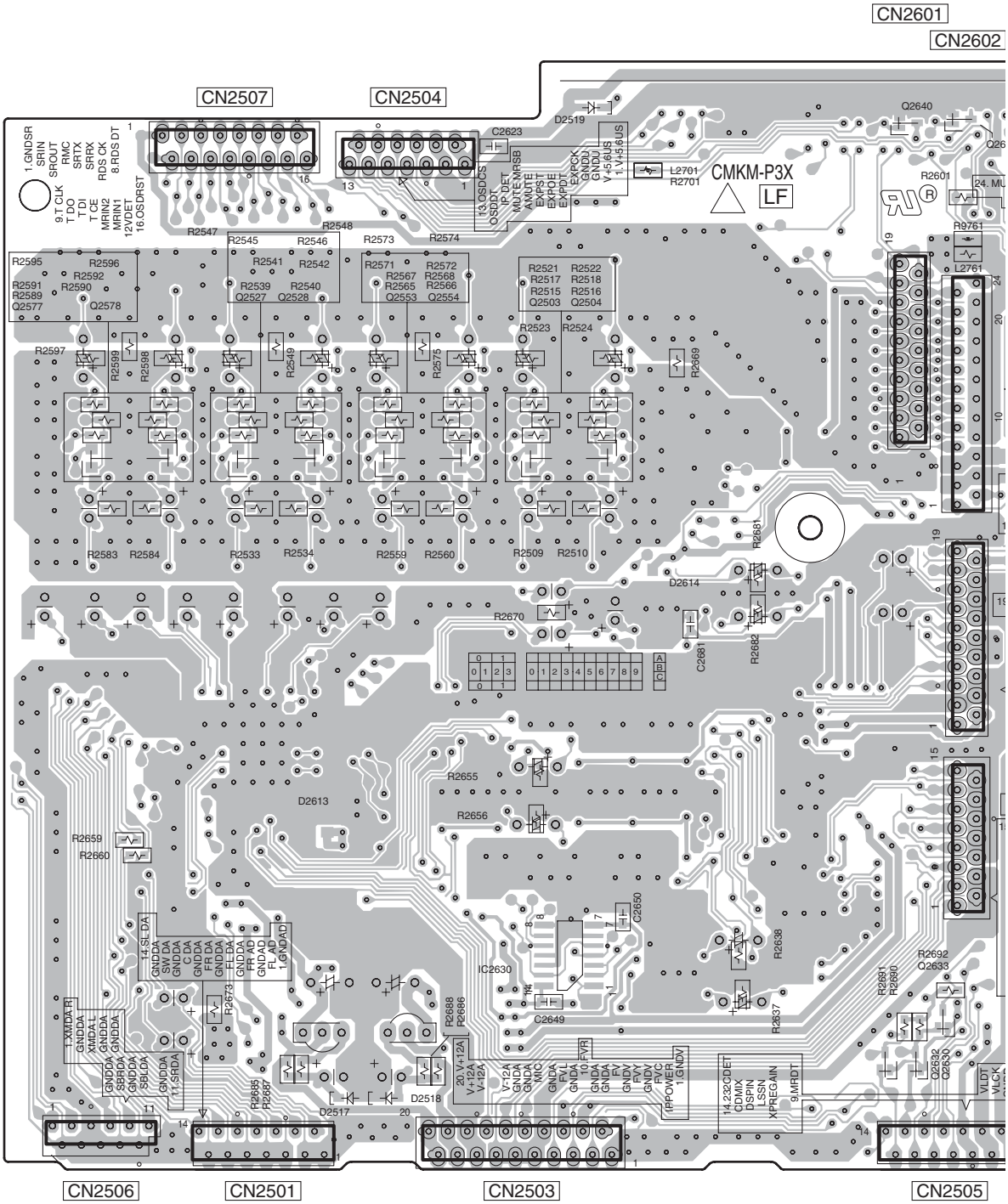


SIDE A


CN2801
O CN5603
CN2602
CN2601
E CN5431
E CN5433
CN2504
CN2507
LF
ICT
FC
IC2640
IC2637
IC2634
IC2633
IC2636
IC2635
IC2631
IC2632
Production Code
(ANP7600-B)
CN2505
CN2503
CN2501
CN2506
J CN4313
N CN4312
N CN4311
N CN4310

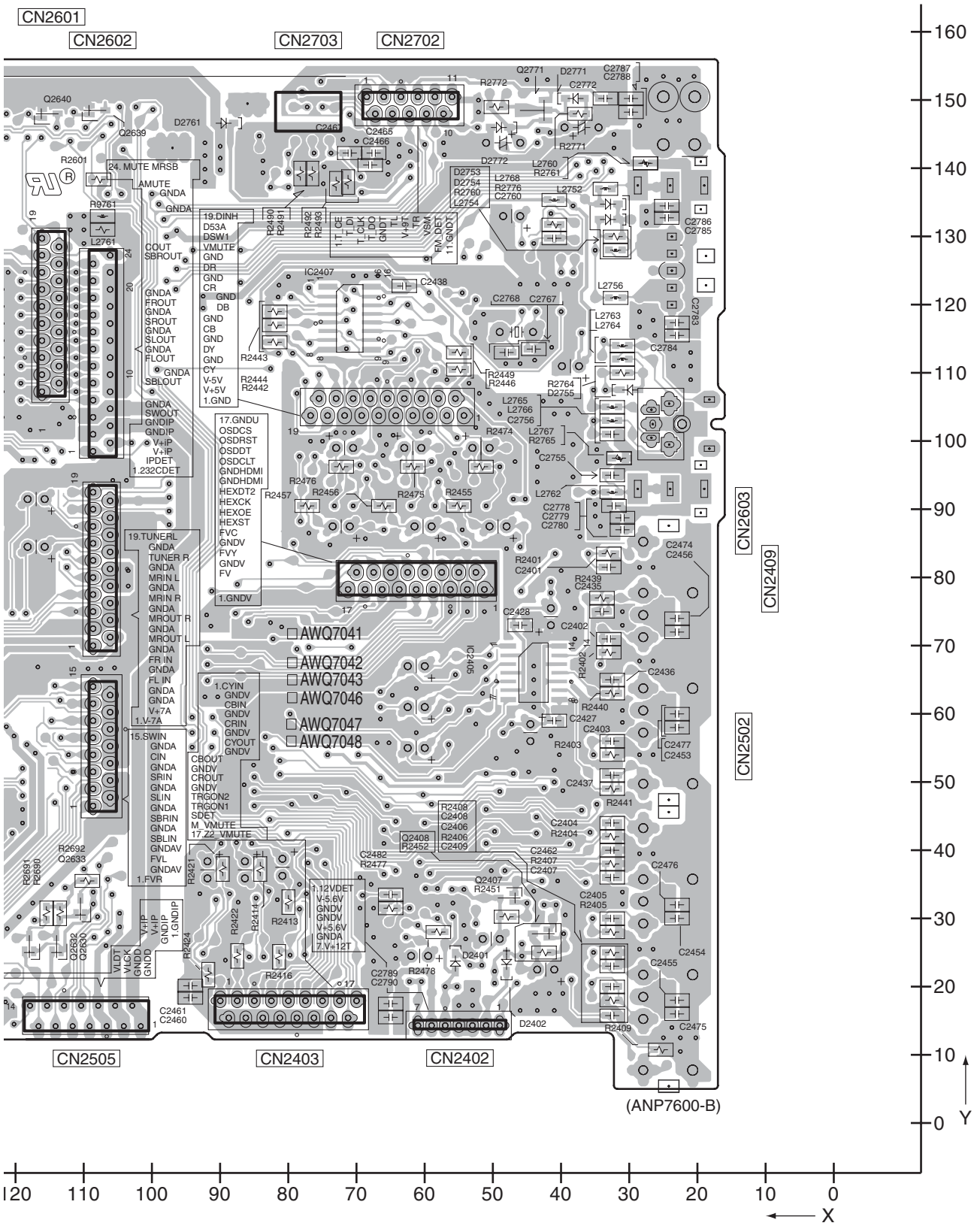
SIDE B

K COMPONENT & VOL ASSY



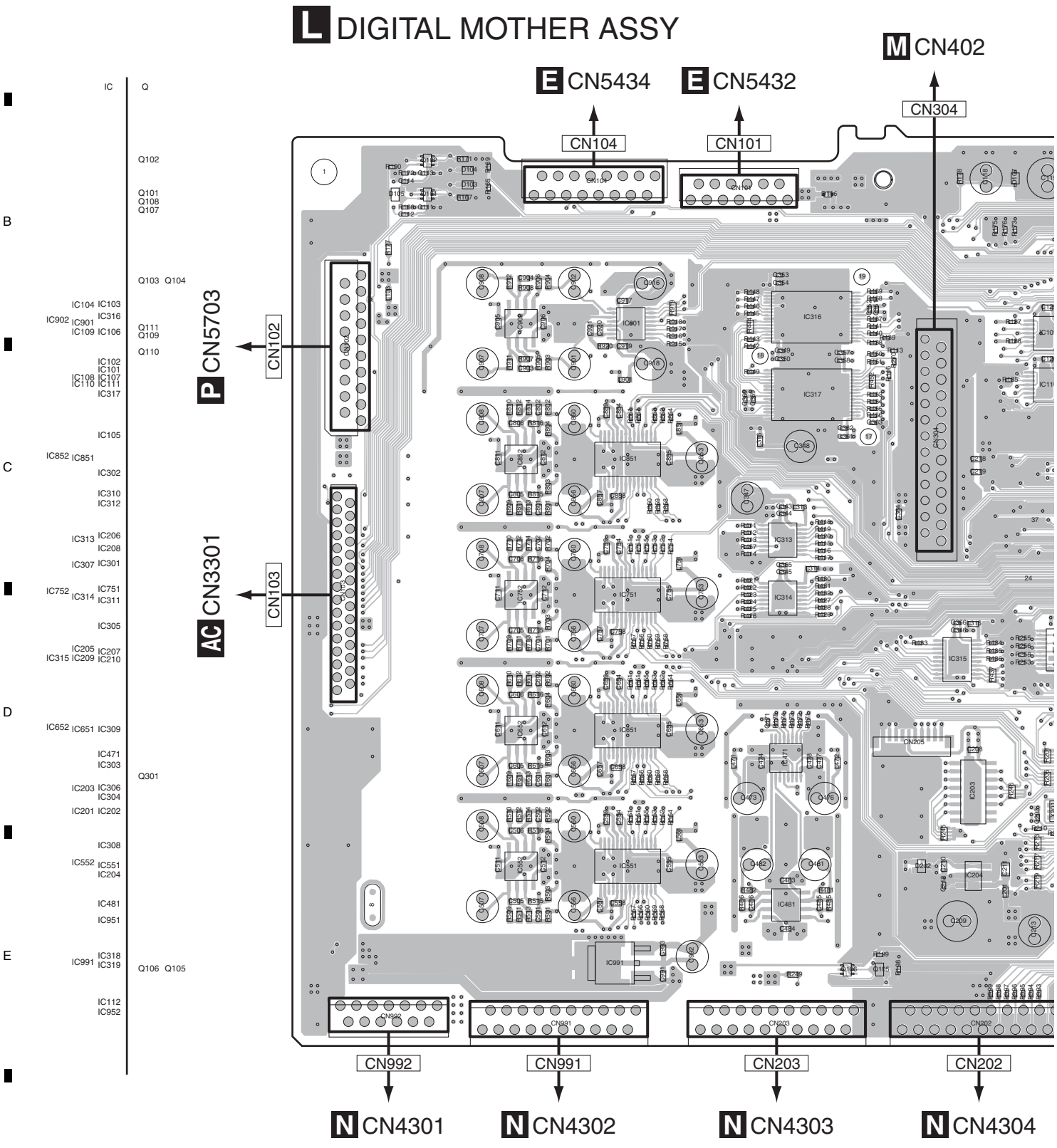
240 230 220 210 200 190 180 170 160 150 140 130 120 110

SIDE B


CN2601
CN2602
CN2703
CN2702
CN2603
CN2409
CN2502
CN2505
CN2403
CN2402
AWQ7041
AWQ7042
AWQ7043
AWQ7046
AWQ7047
AWQ7048
(ANP7600-B)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
120
110
100
90
80
70
60
50
40
30
20
10
0
X

11.9 DIGITAL MOTHER ASSY

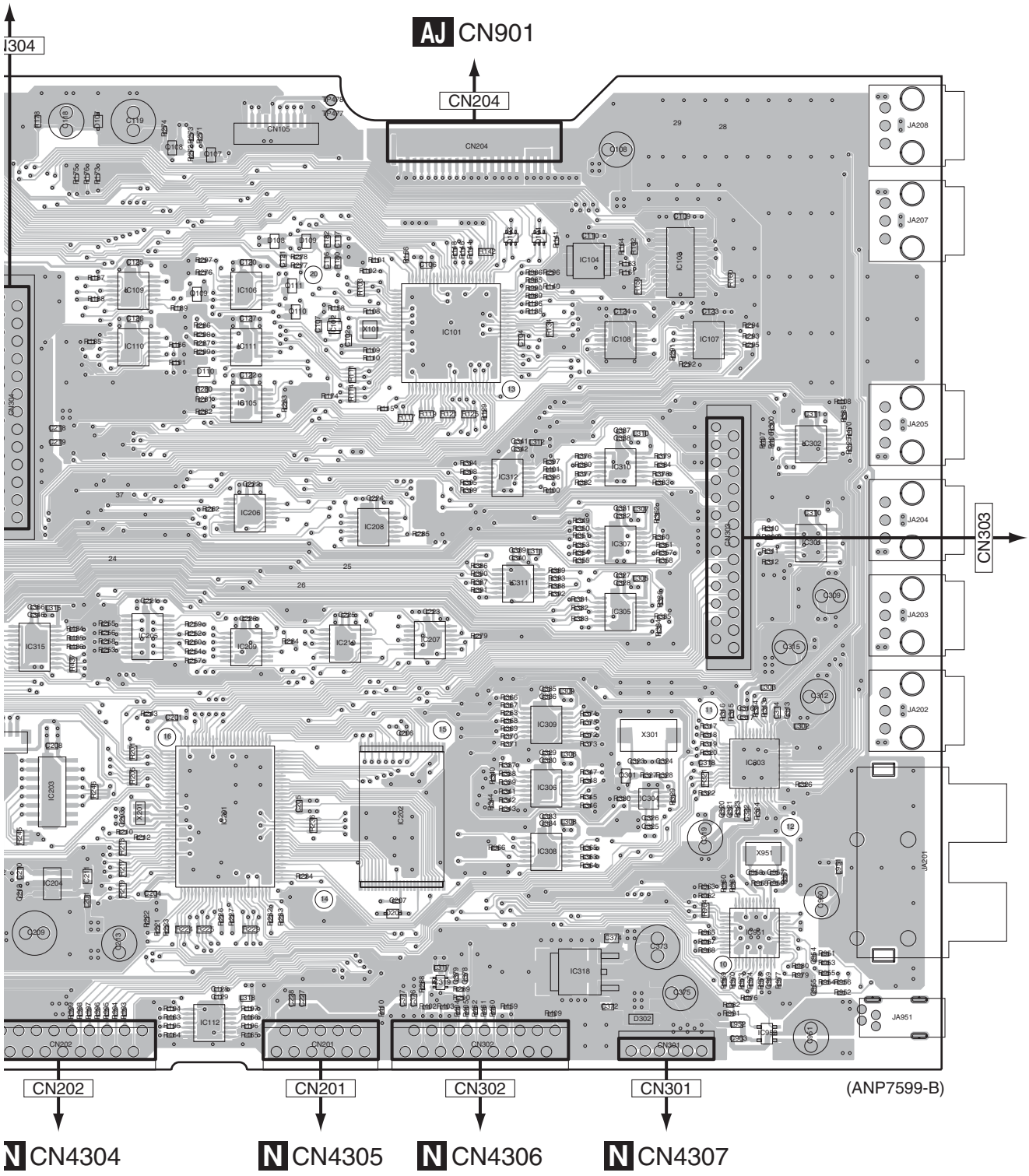
SIDE A



SIDE A

A

N402



B

C

D

E

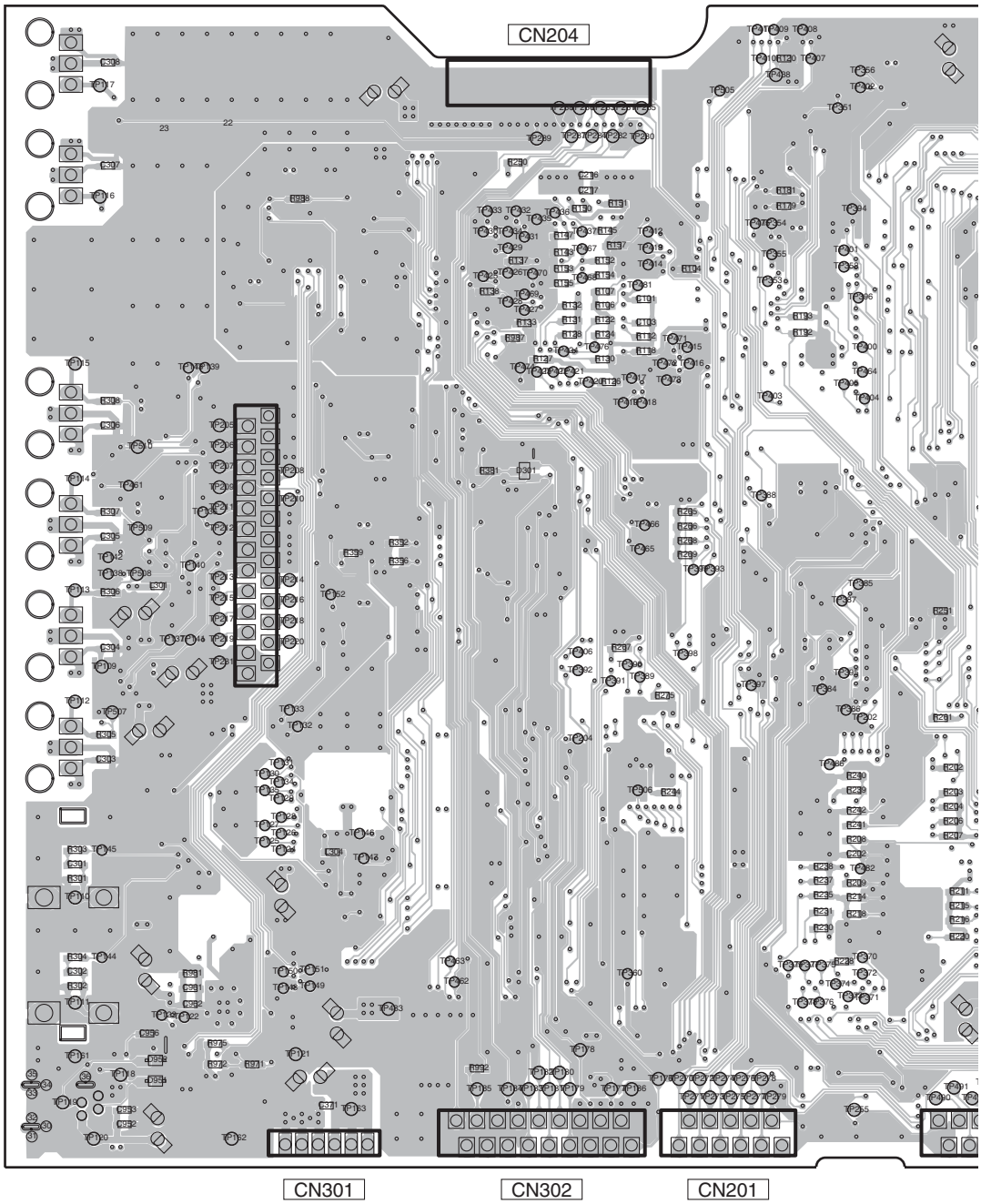
F

SIDE B

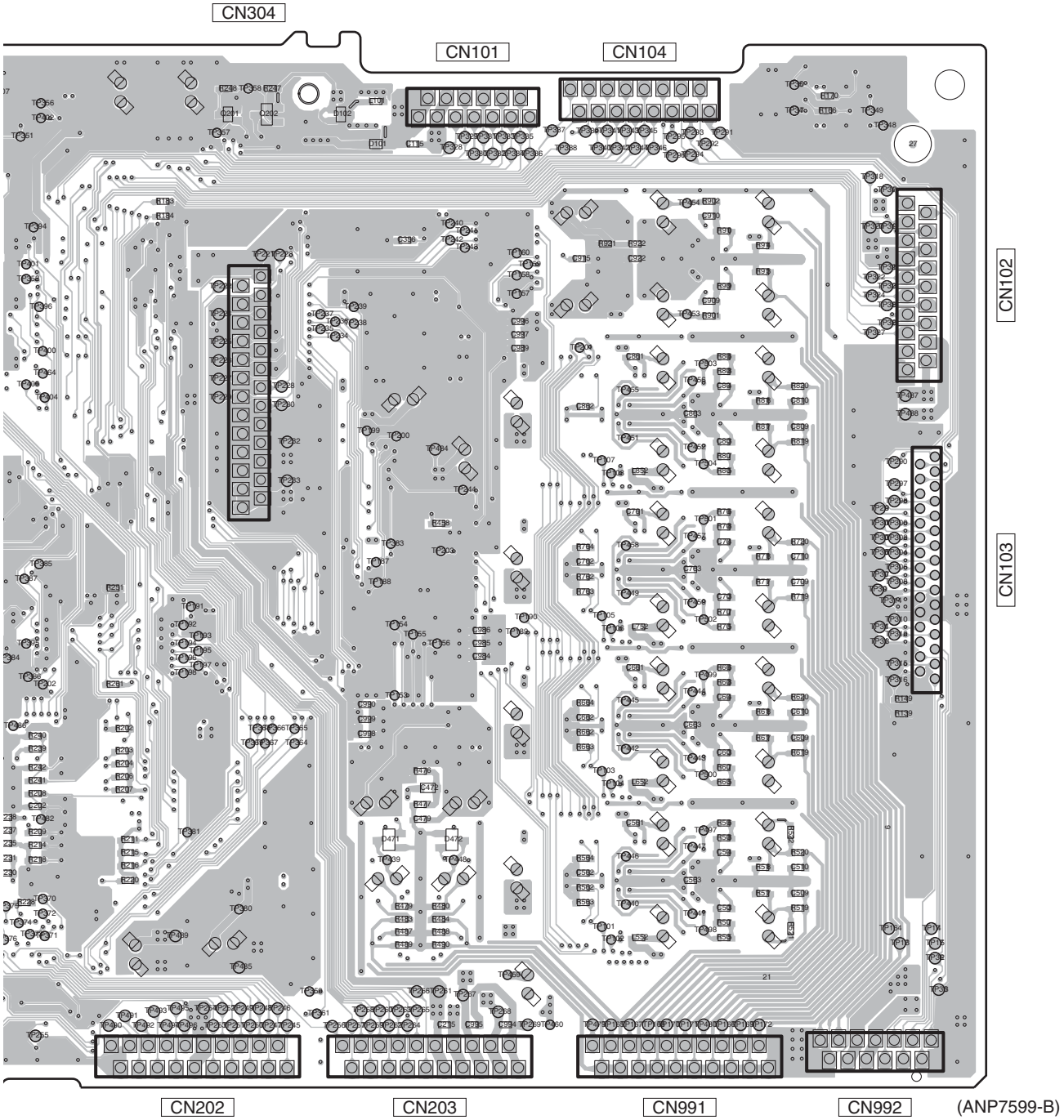
L DIGITAL MOTHER ASSY

IC Q

Q201 Q202



SIDE B



(ANP7599-B)

11.10 DSP ASSY

SIDE A

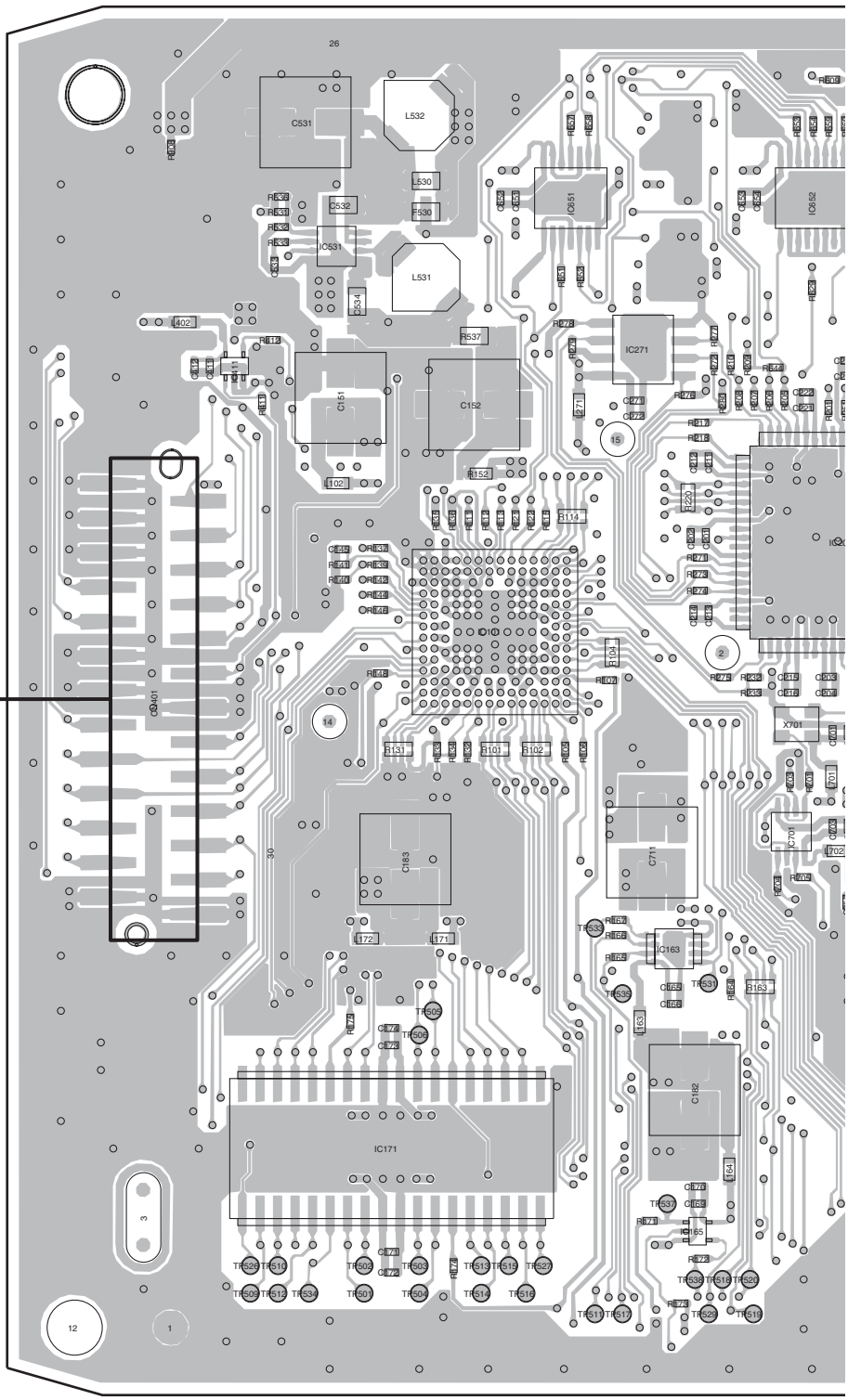
M DSP ASSY

IC Q

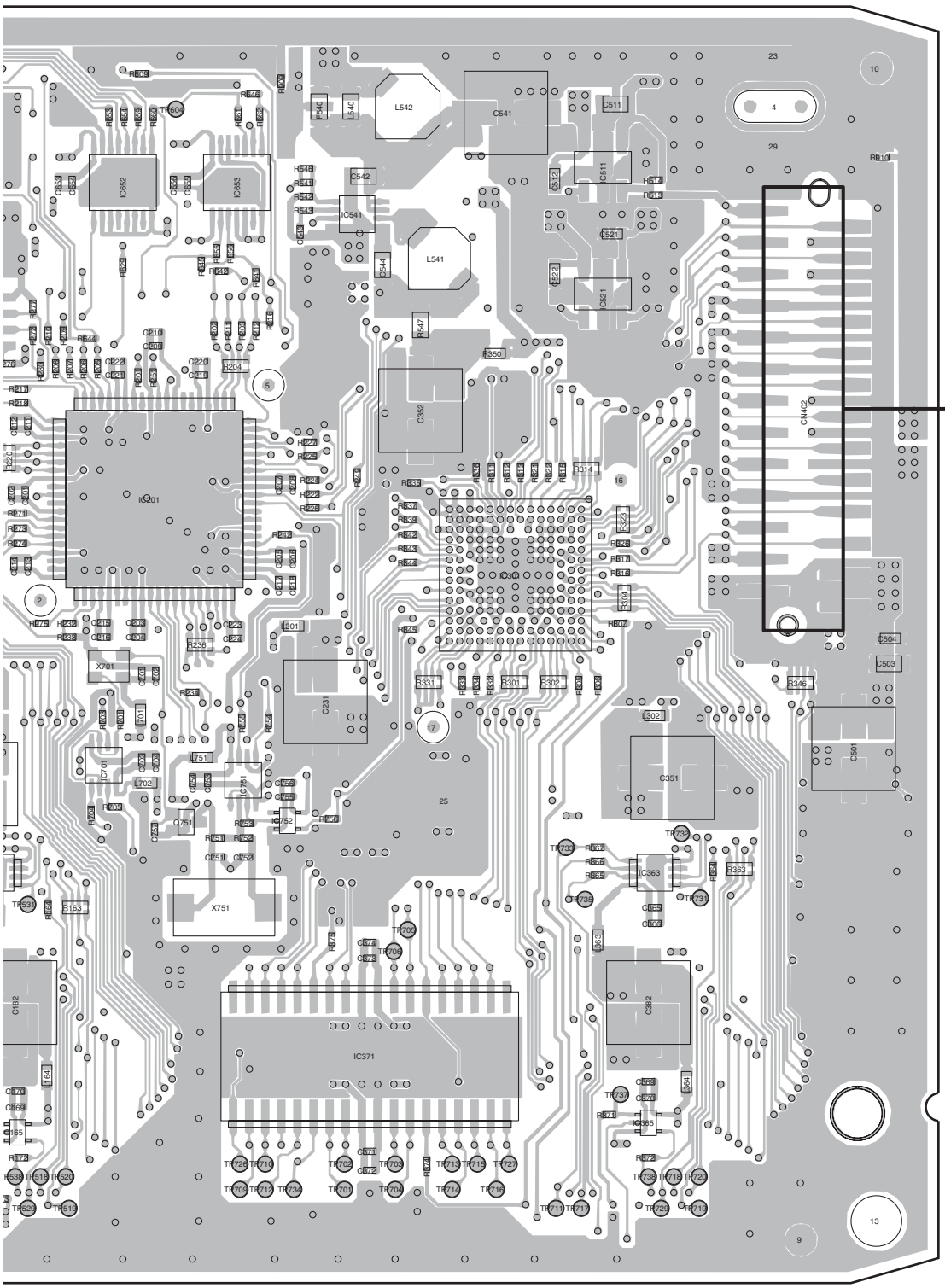
IC511
IC651 IC652 IC653
IC541
IC531
IC521
IC271
IC411
IC201
IC301
IC101
IC701
IC751
IC752 Q751
IC163 IC363
IC171 IC371
IC365
IC165

L CN303

CN401



SIDE A



(ANP7611-B)

SIDE B

M DSP ASSY

IC

IC603 IC601 IC602 IC581

IC571

IC621 IC623 IC622

IC401

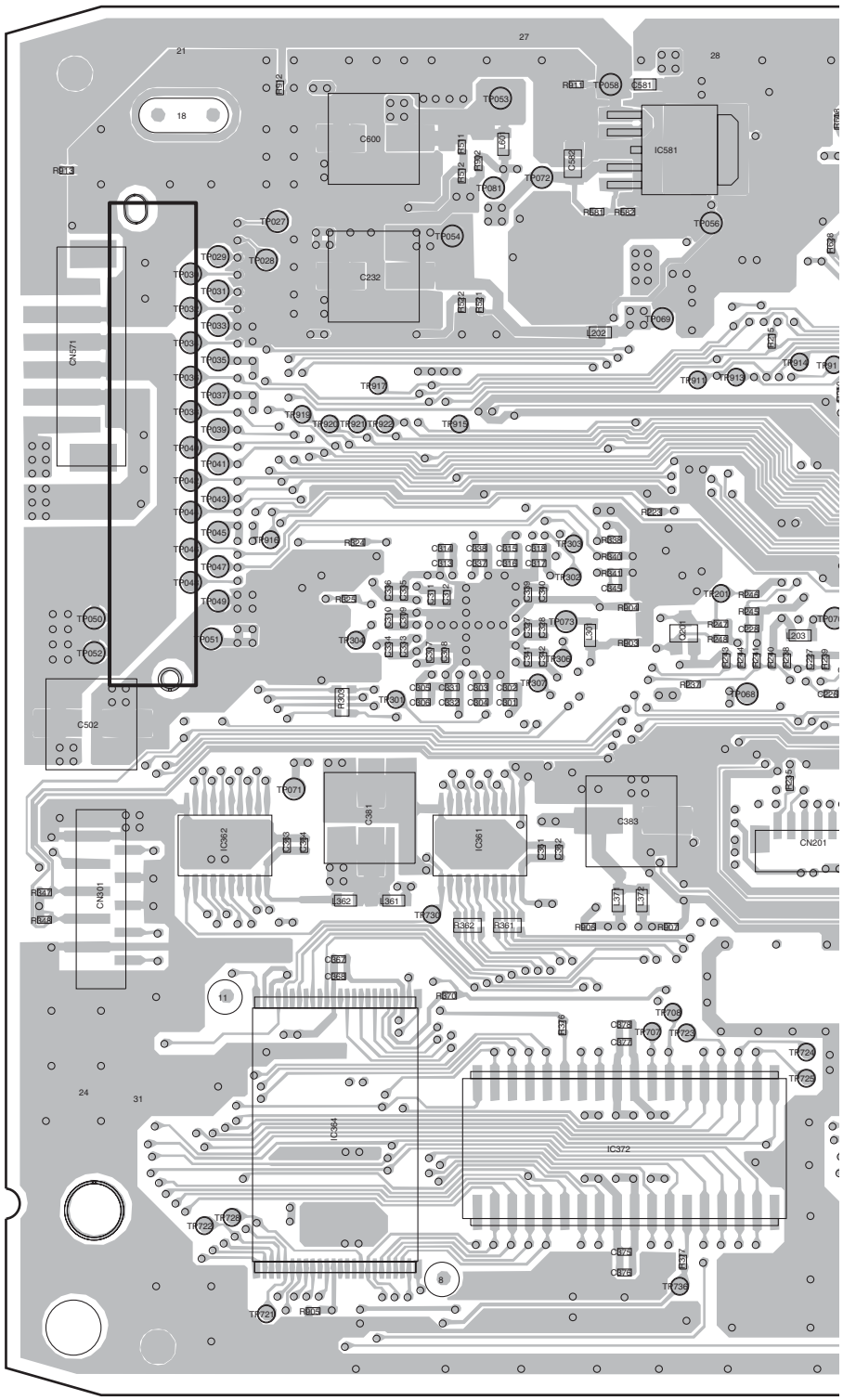
IC362 IC361 IC162 IC161

IC364 IC164

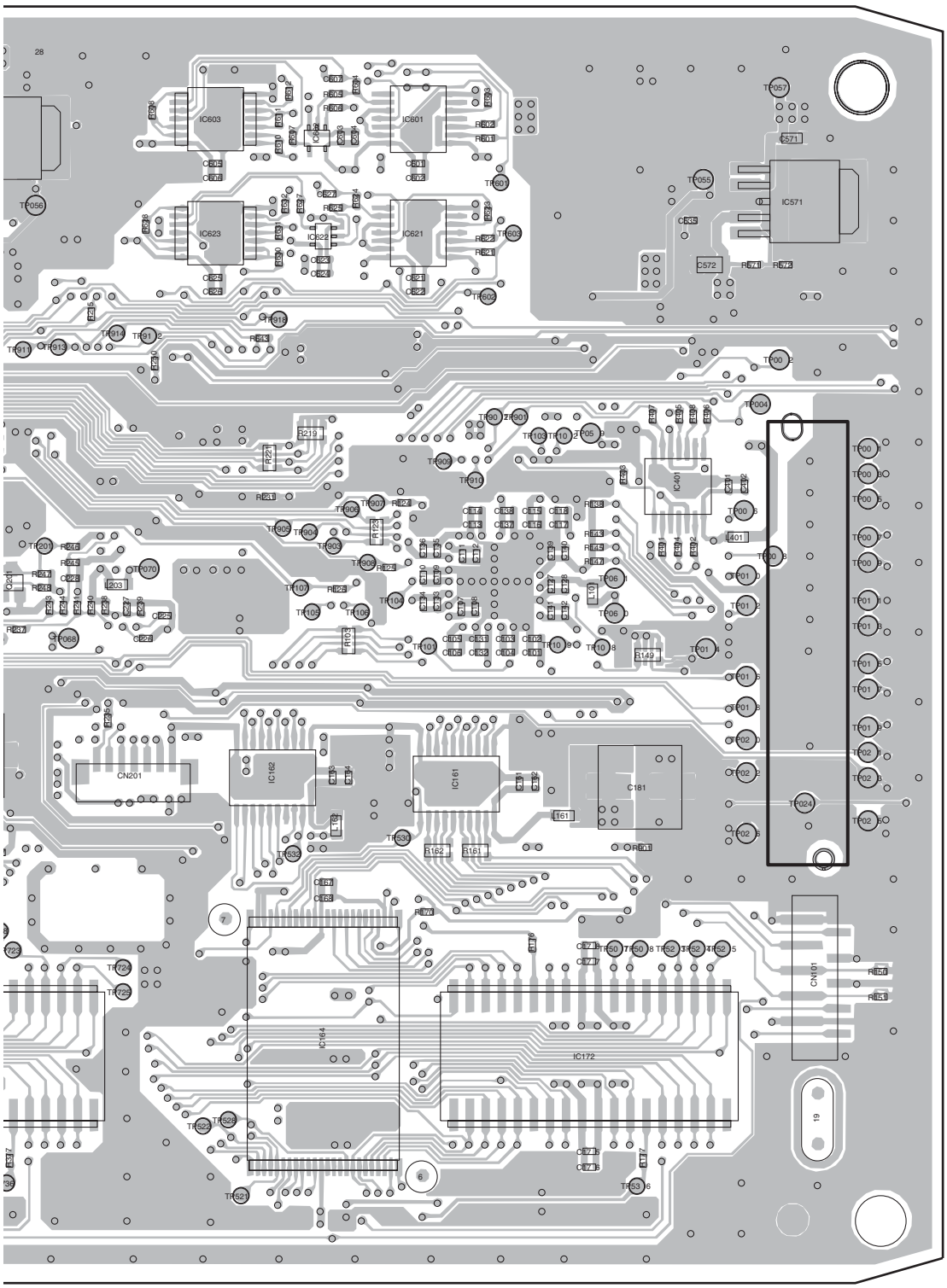
IC372 IC172

Q

Q201

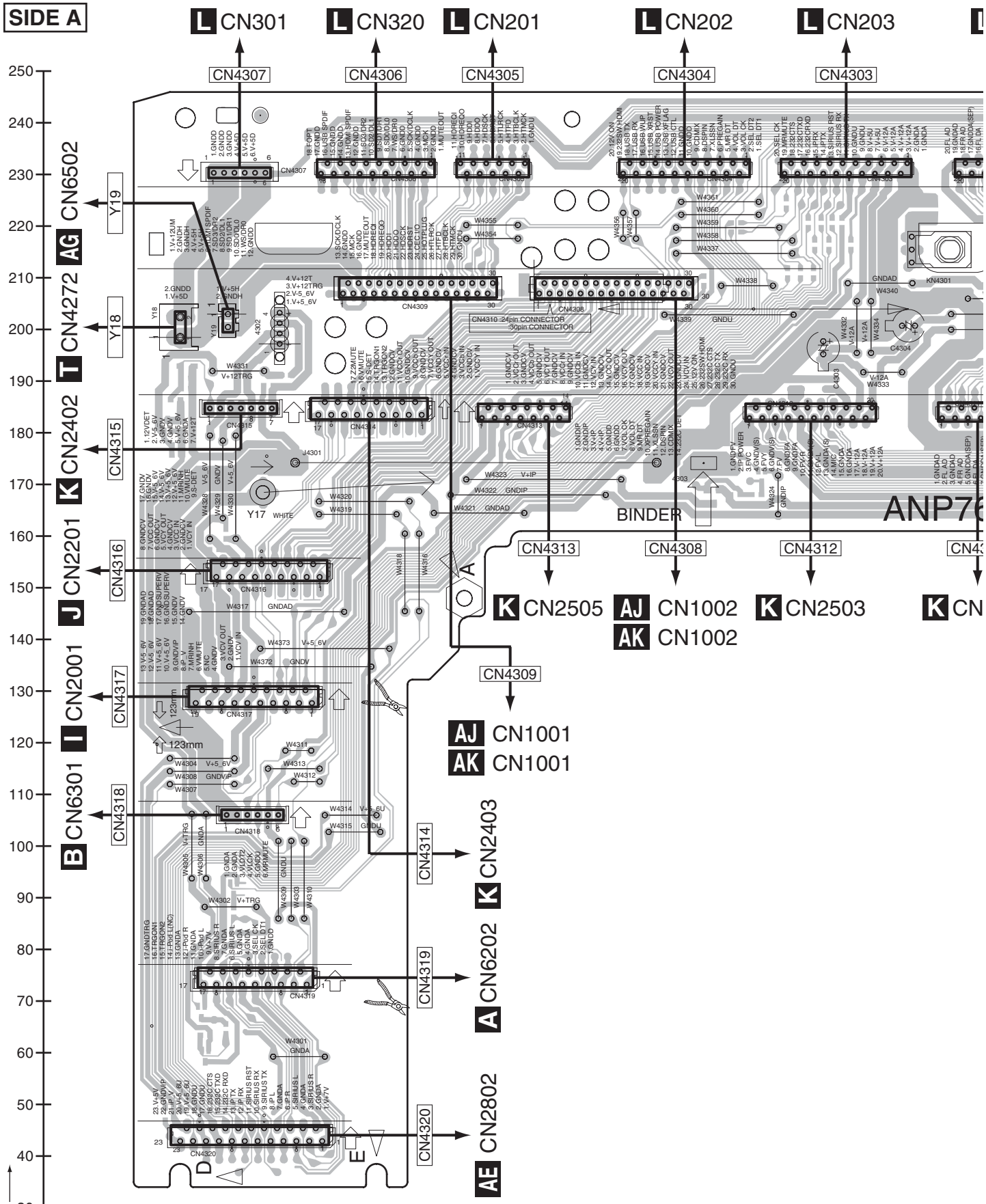


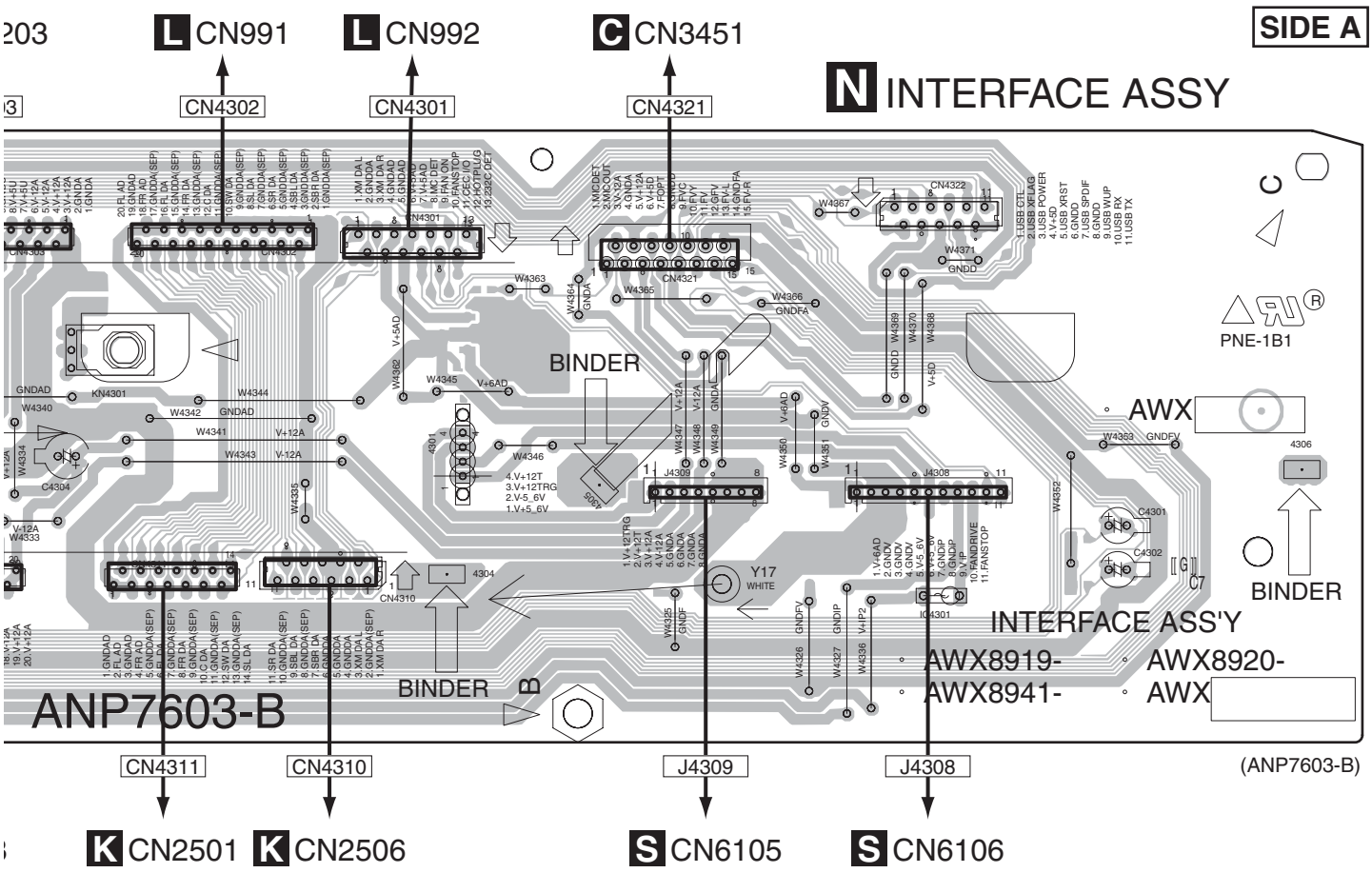
SIDE B



(ANP7611-B)

11.11 INTERFACE ASSY

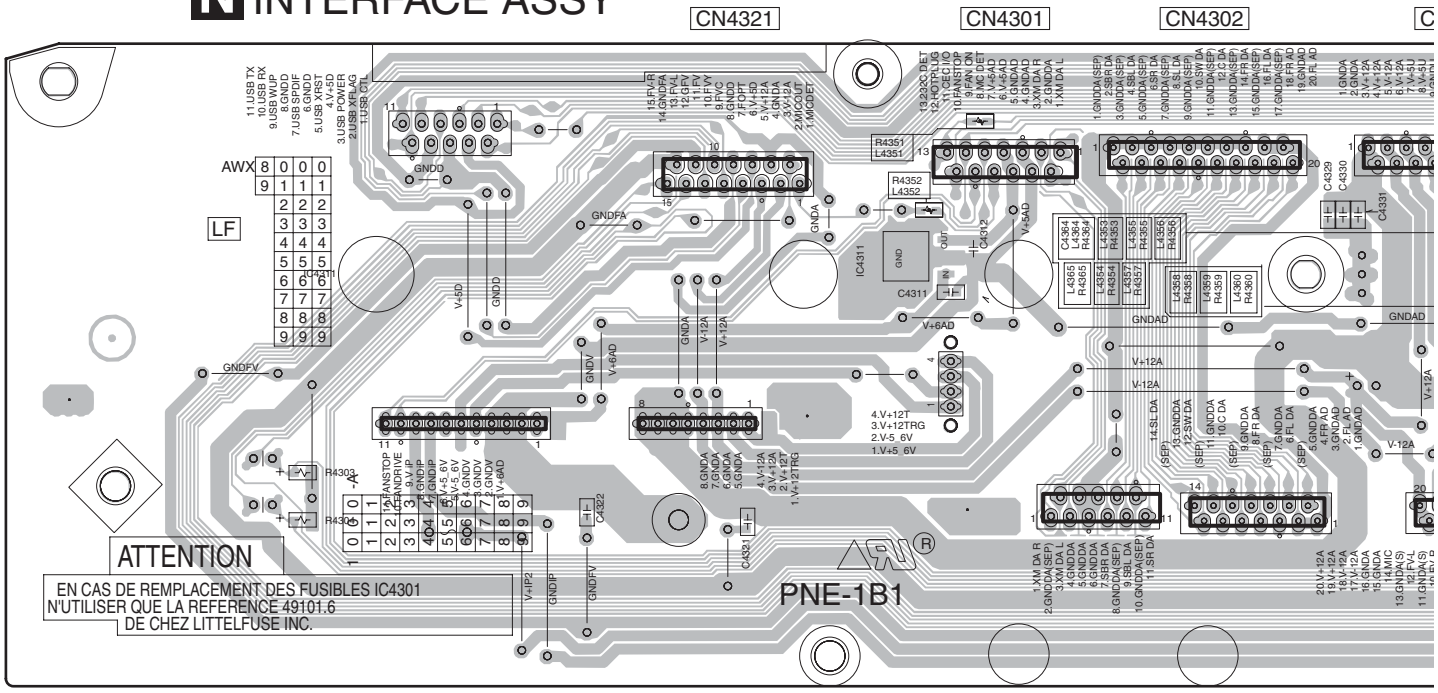




K CN2501 K CN2506 S CN6105 S CN6106

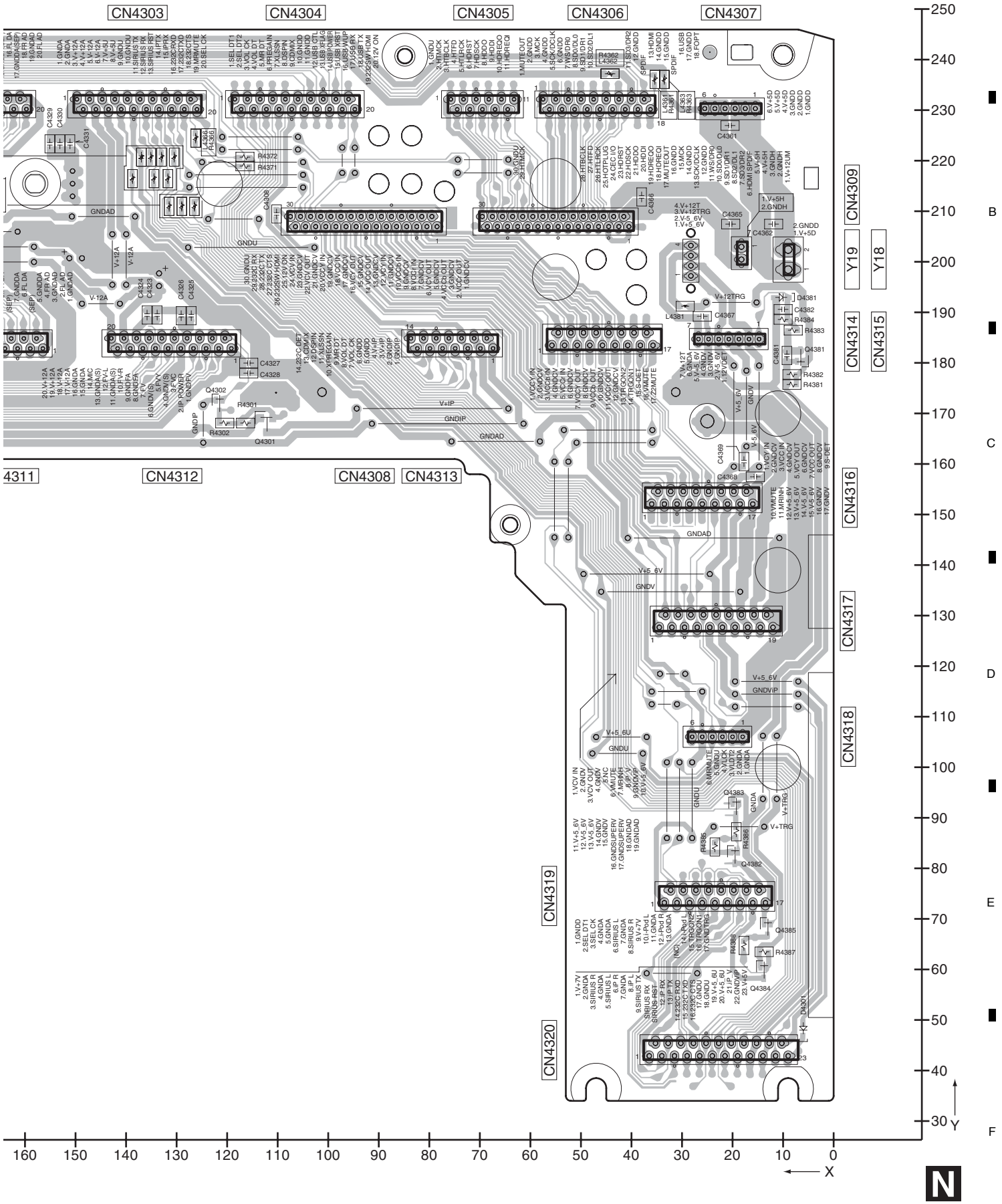
SIDE B

N INTERFACE ASSY

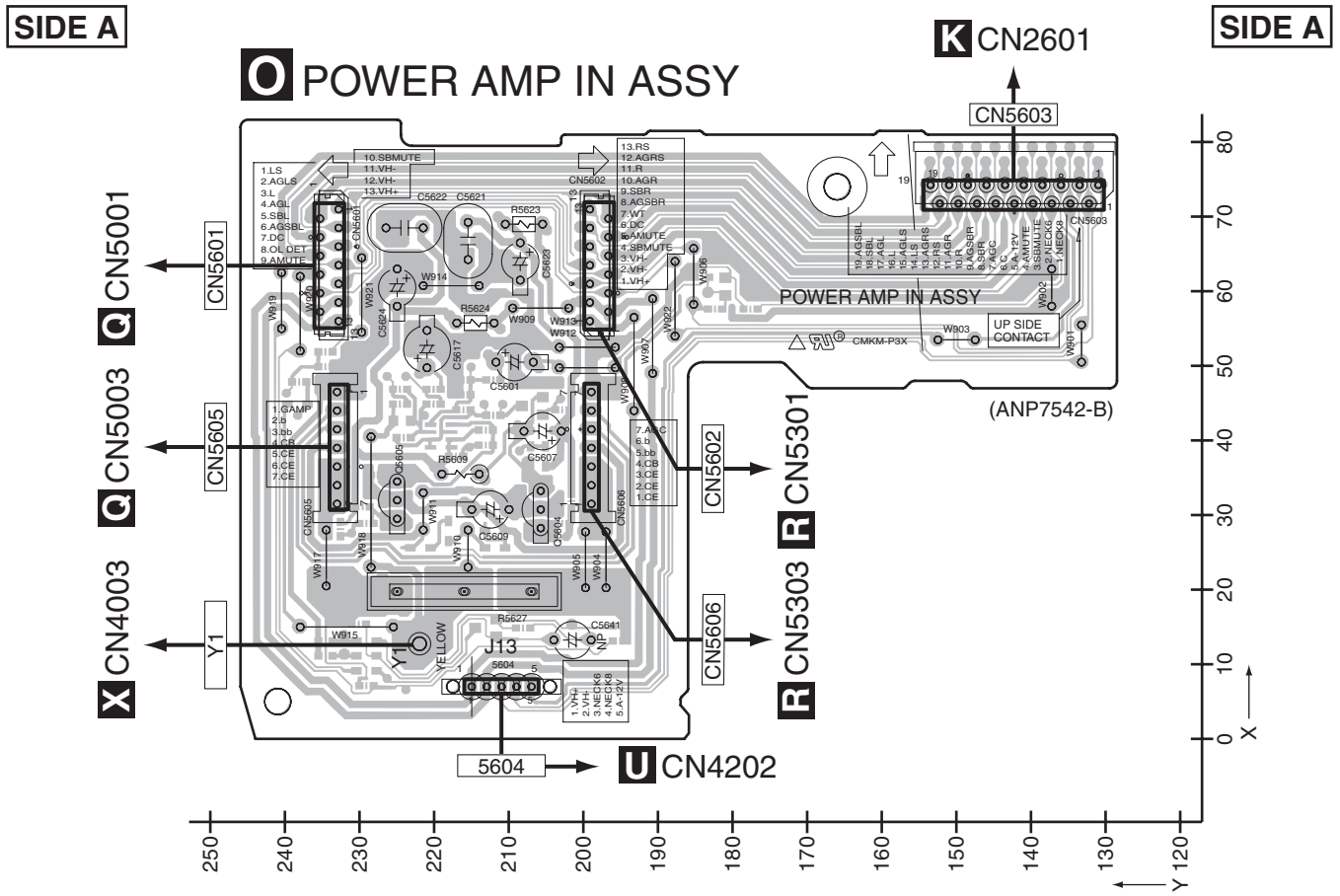


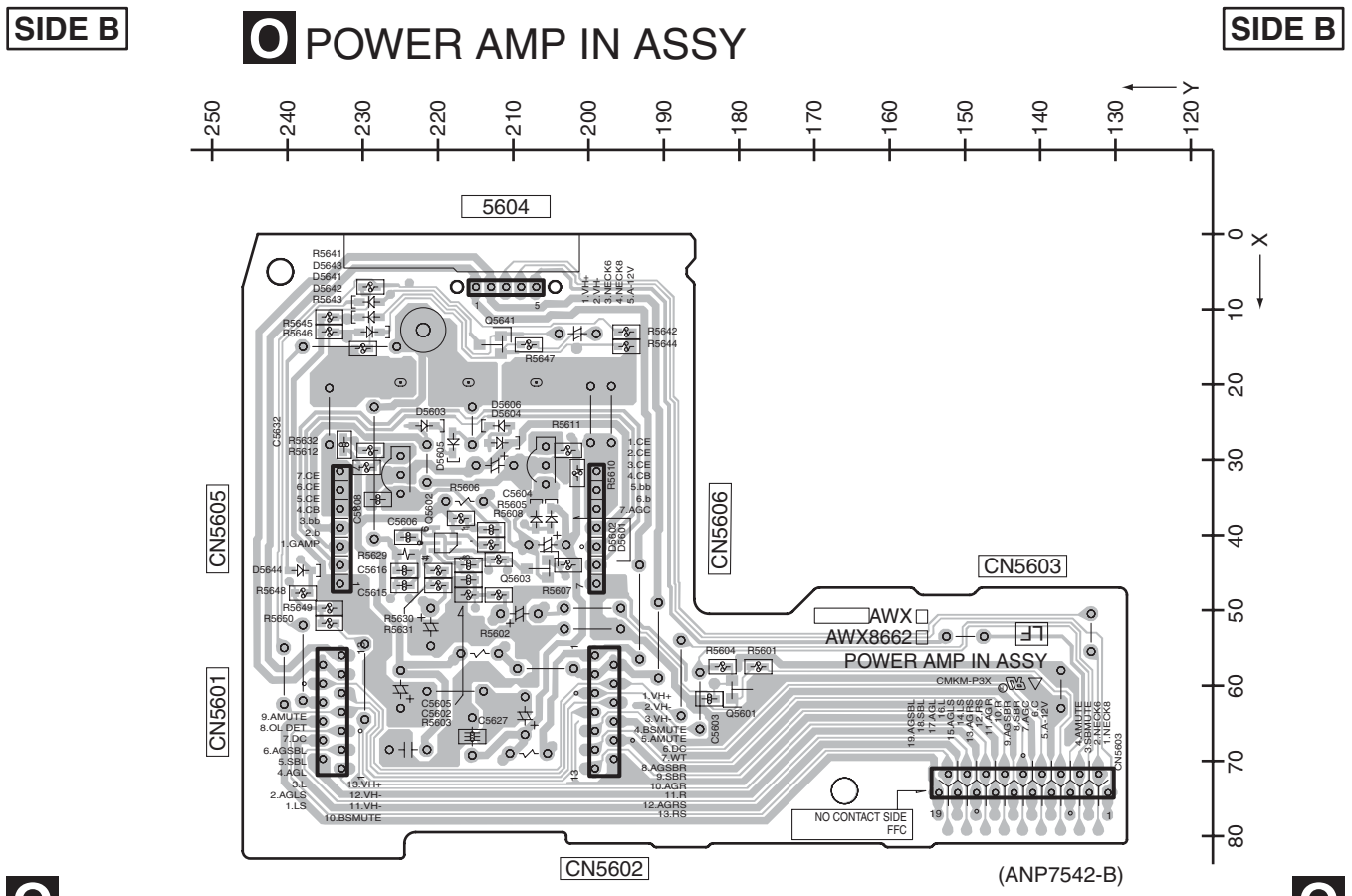
(ANP7603-B)

J4308 J4309 CN4310 CN4311


CN4303
CN4304
CN4305
CN4306
CN4307
CN4309
CN4314
CN4315
CN4316
CN4317
CN4318
CN4319
CN4320
CN4311
CN4312
CN4308
CN4313
Y19
Y18
SIDE B

11.12 POWER AMP IN ASSY

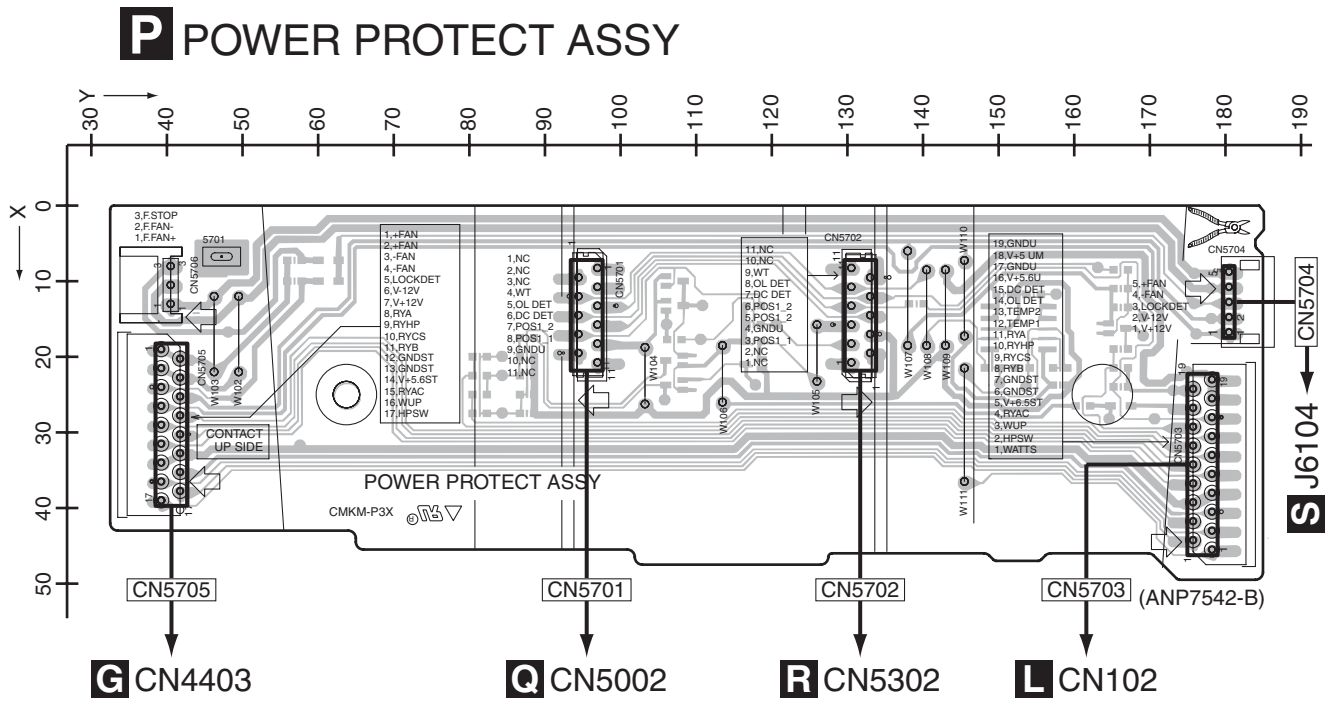




11.13 POWER PROTECT ASSY

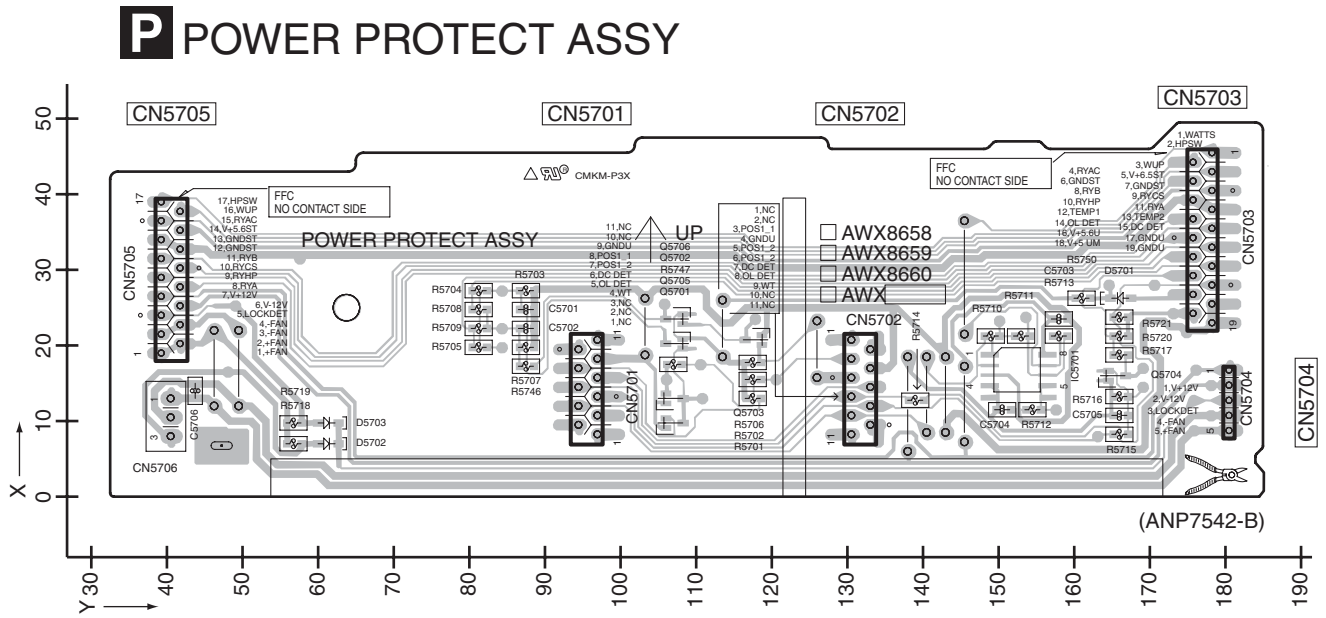
SIDE A

SIDE A



SIDE B

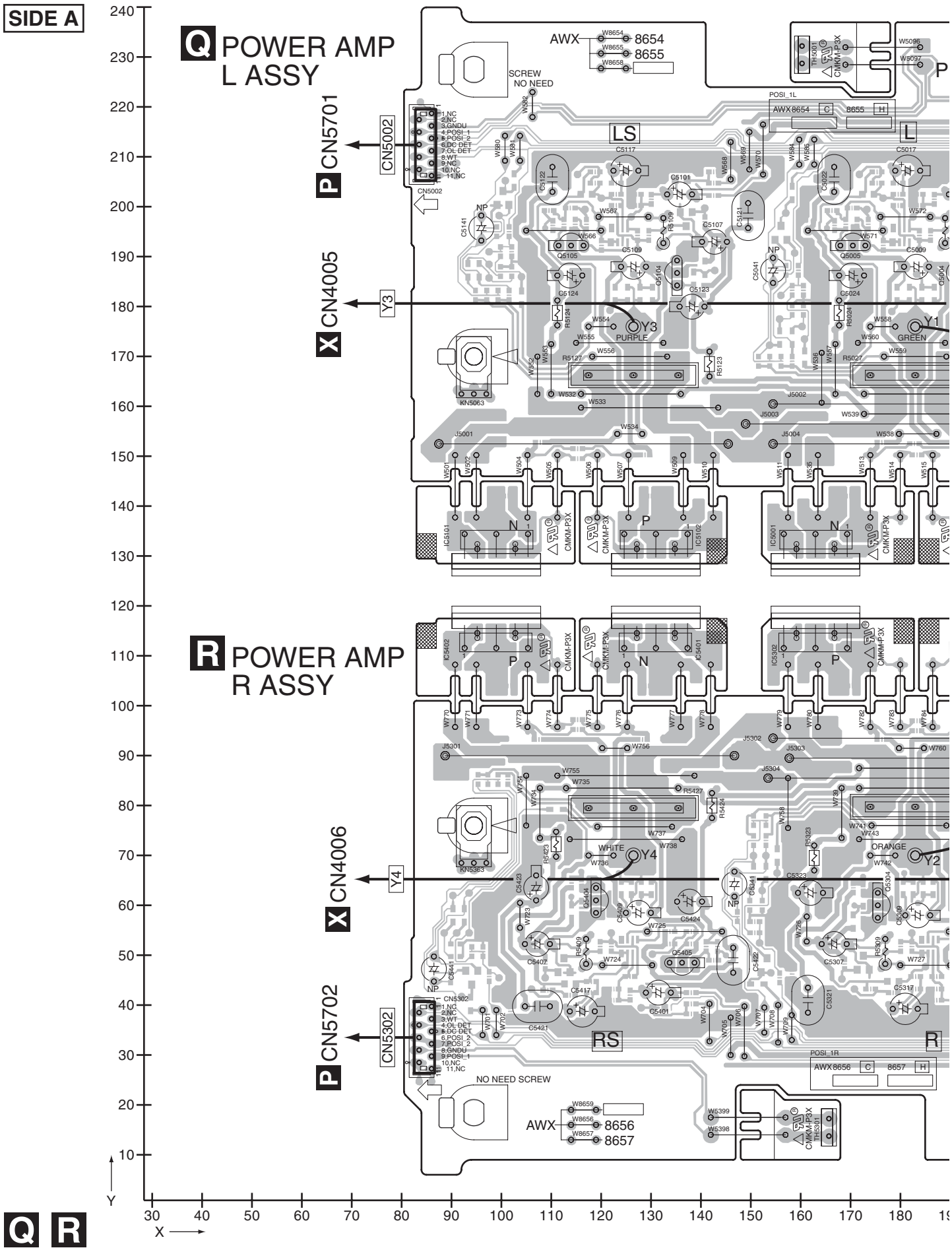
SIDE B

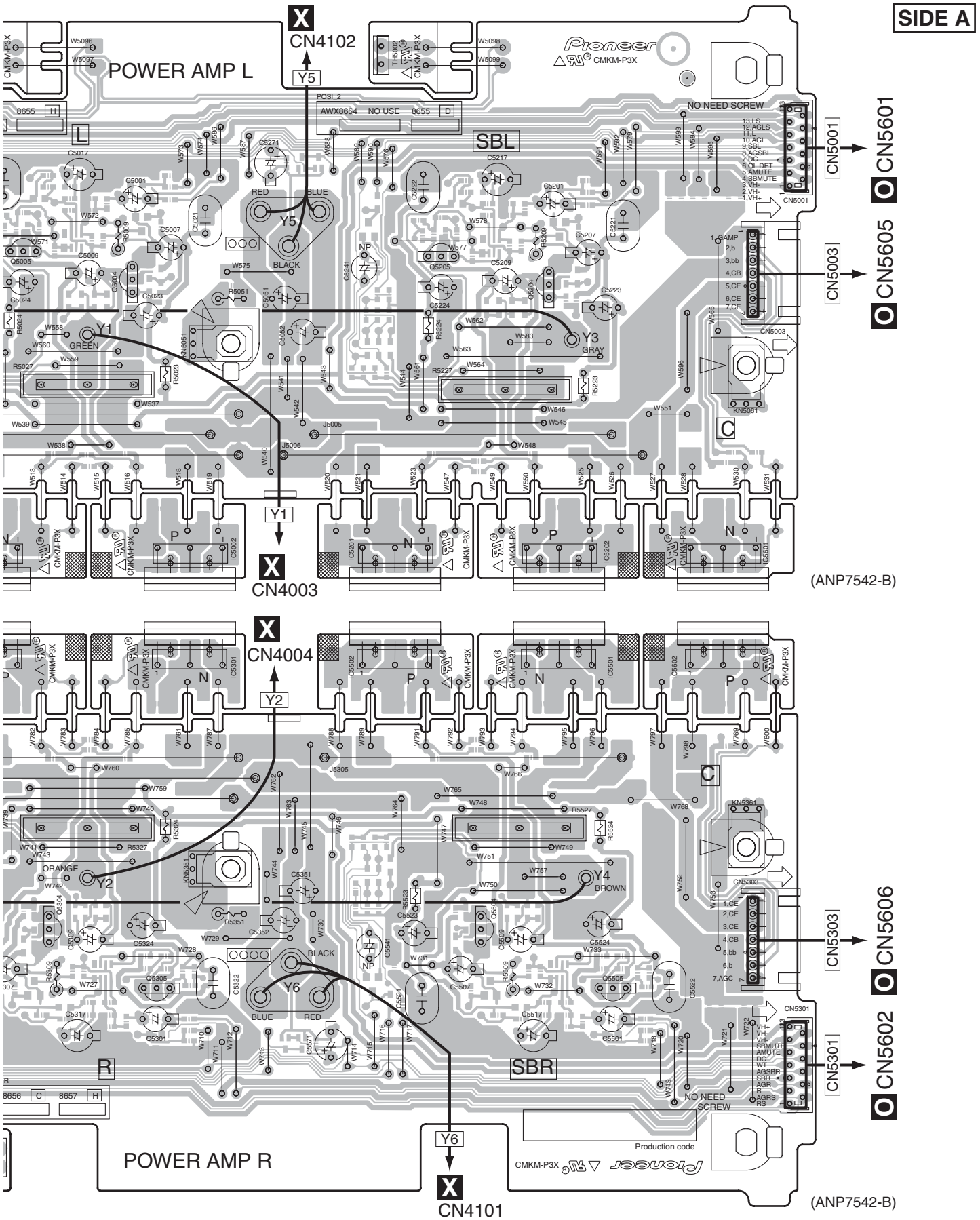


P

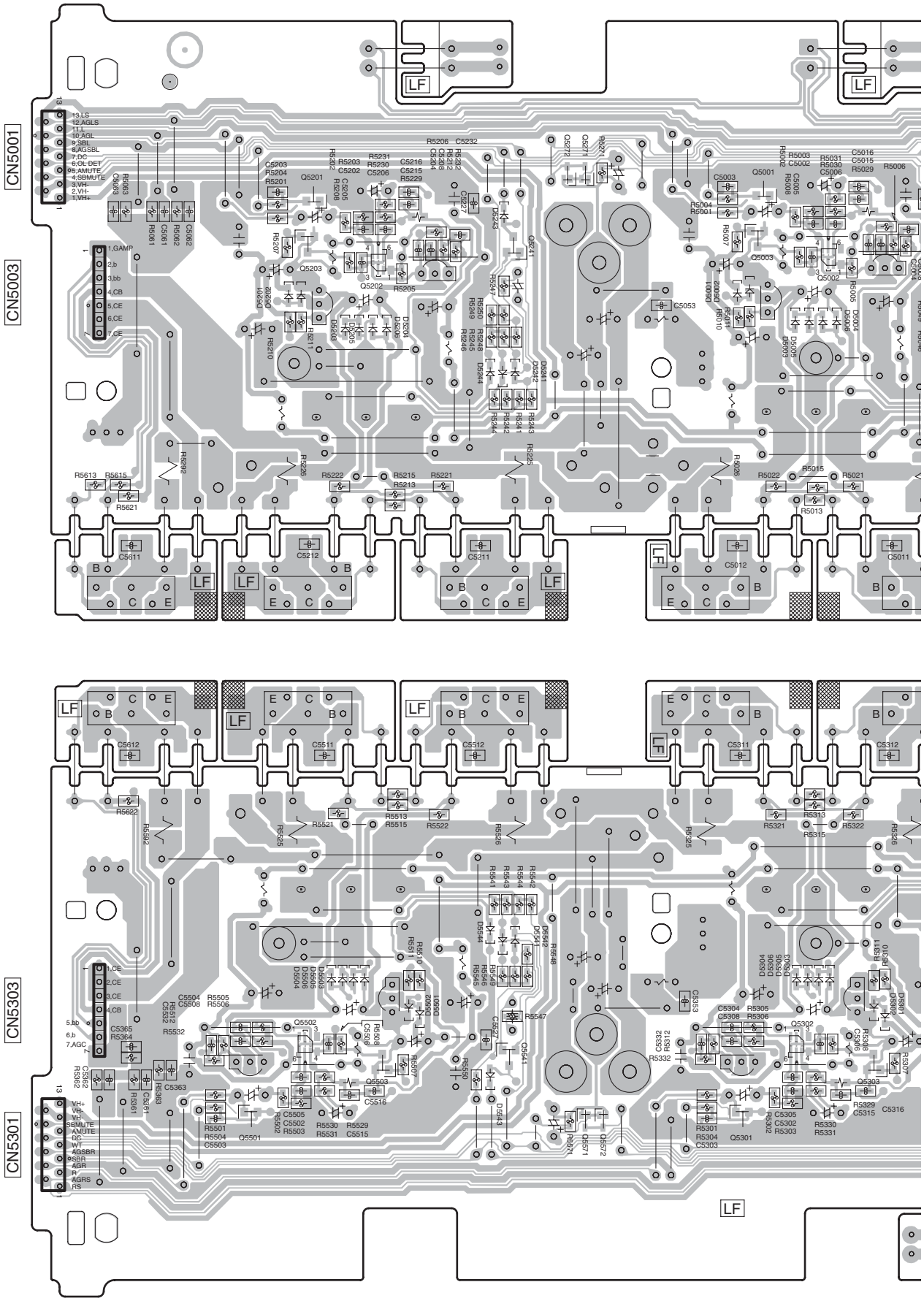
P

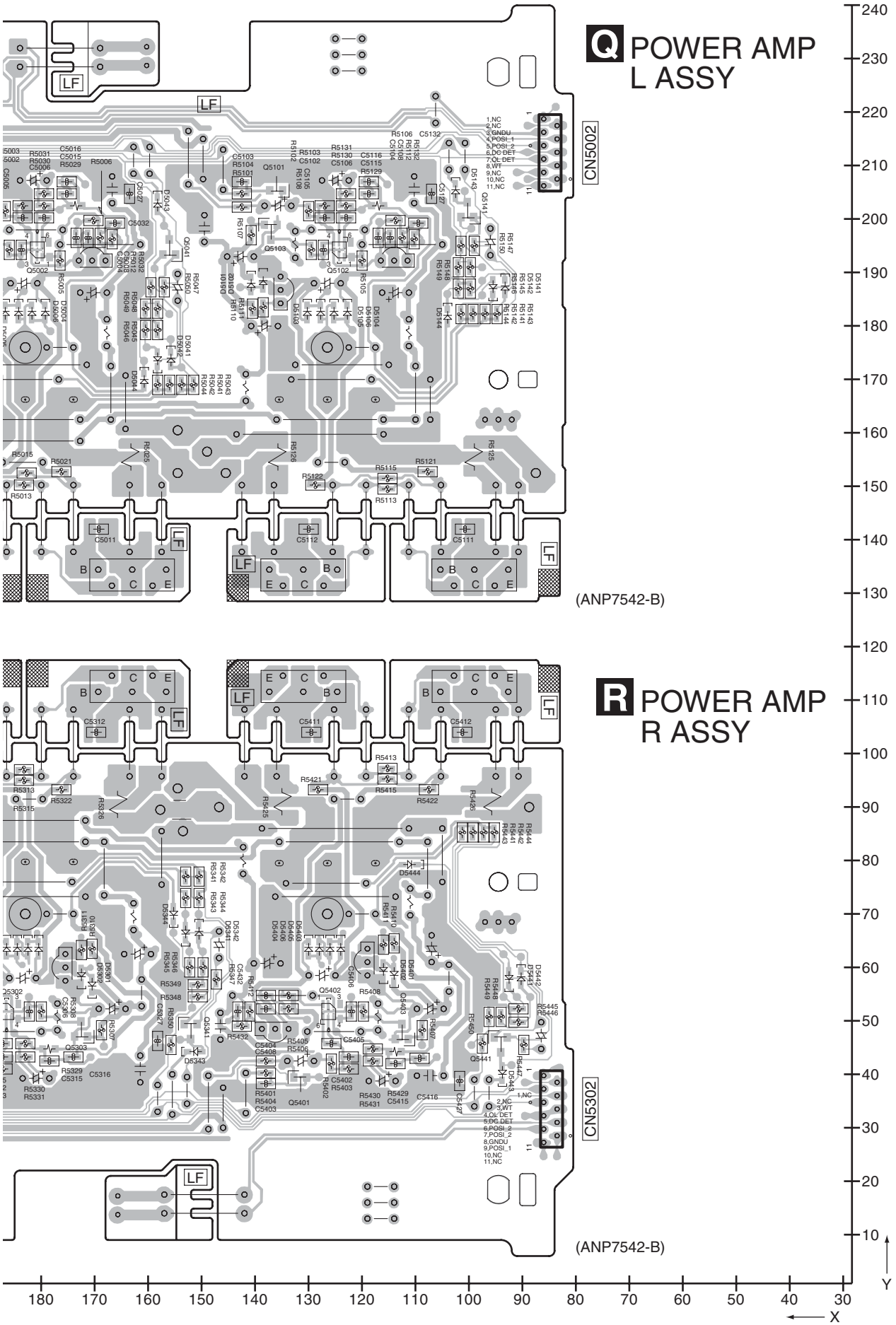
11.14 POWER AMP L and POWER AMP R ASSYS




SIDE A
POWER AMP L
POWER AMP R
CN4102
CN4003
CN4004
CN4101
SBL
SBR
Y1
Y2
Y3
Y4
Y5
Y6
GREEN
ORANGE
GRAY
BROWN
RED
BLUE
BLACK
CN5001
CN5003
CN5303
CN5301
CN5601
CN5605
CN5606
CN5602
NO NEED SCREW
NO NEED SCREW
Production code
(ANP7542-B)
(ANP7542-B)
CMKM-P3X

SIDE B


CN5001
CN5003
CN5303
CN5301
LF
330 320 310 300 290 280 270 260 250 240 230 220 210 200 190 180 170

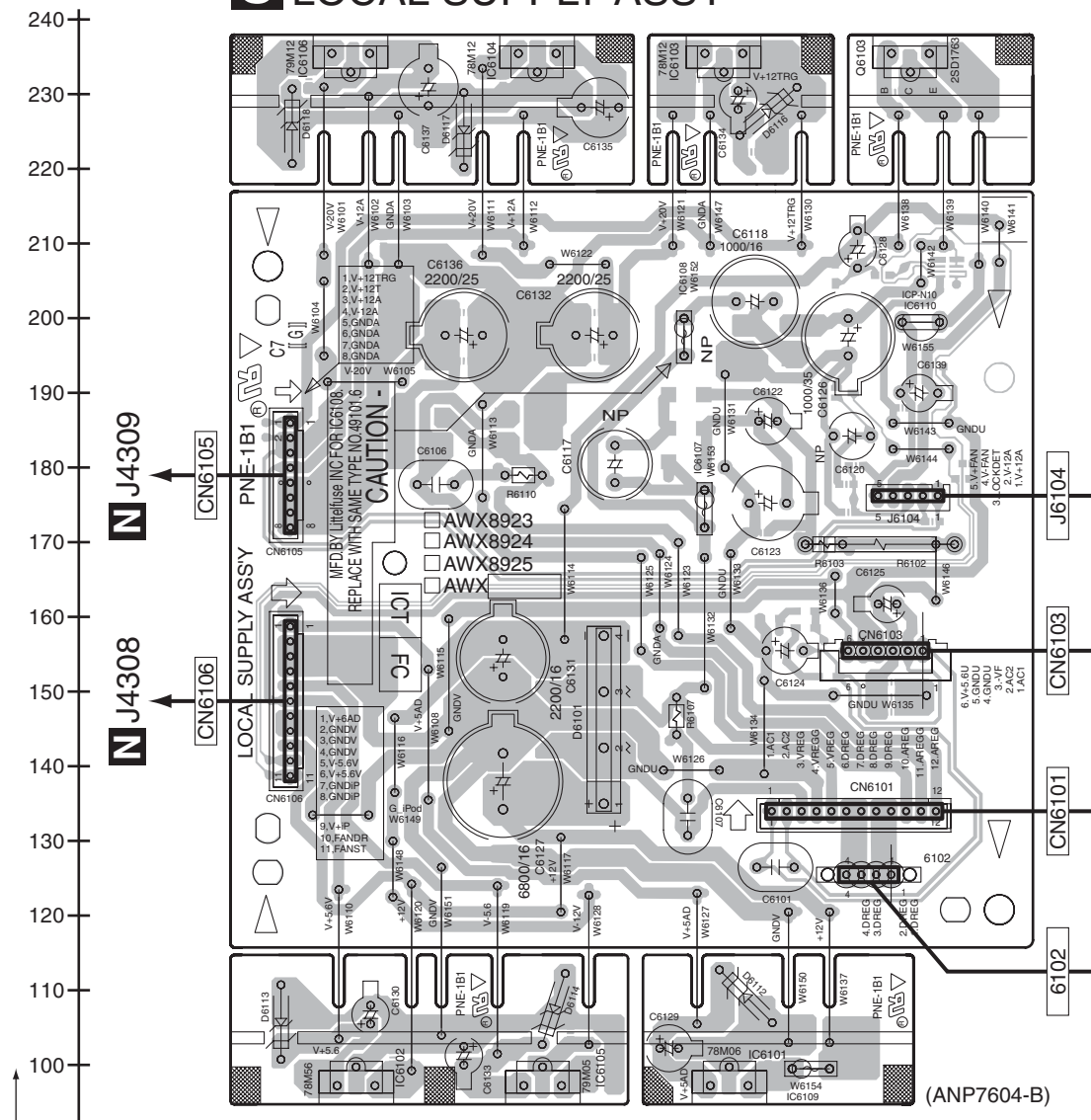

Q POWER AMP L ASSY
CN5002
(ANP7542-B)
R POWER AMP R ASSY
CN5302
(ANP7542-B)
LF
X
Y

11.15 LOCAL SUPPLY and DC/DC ASSYS

SIDE A

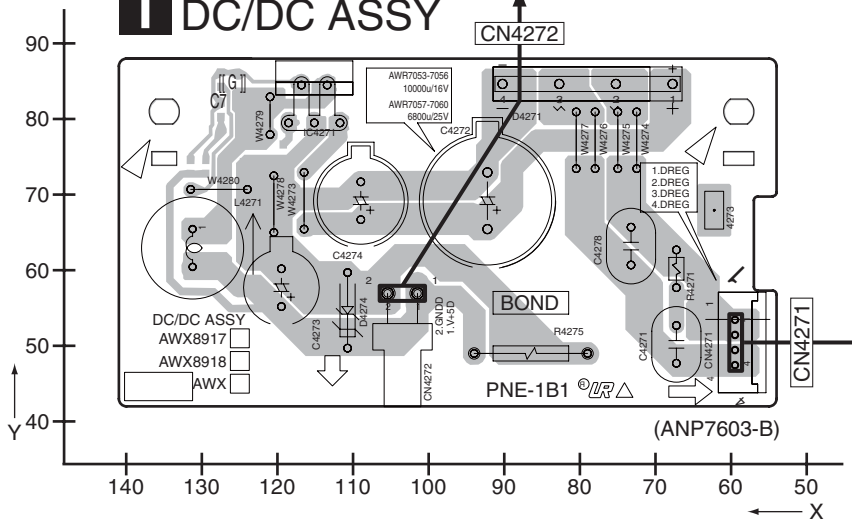
SIDE A

S LOCAL SUPPLY ASSY



N Y18

T DC/DC ASSY

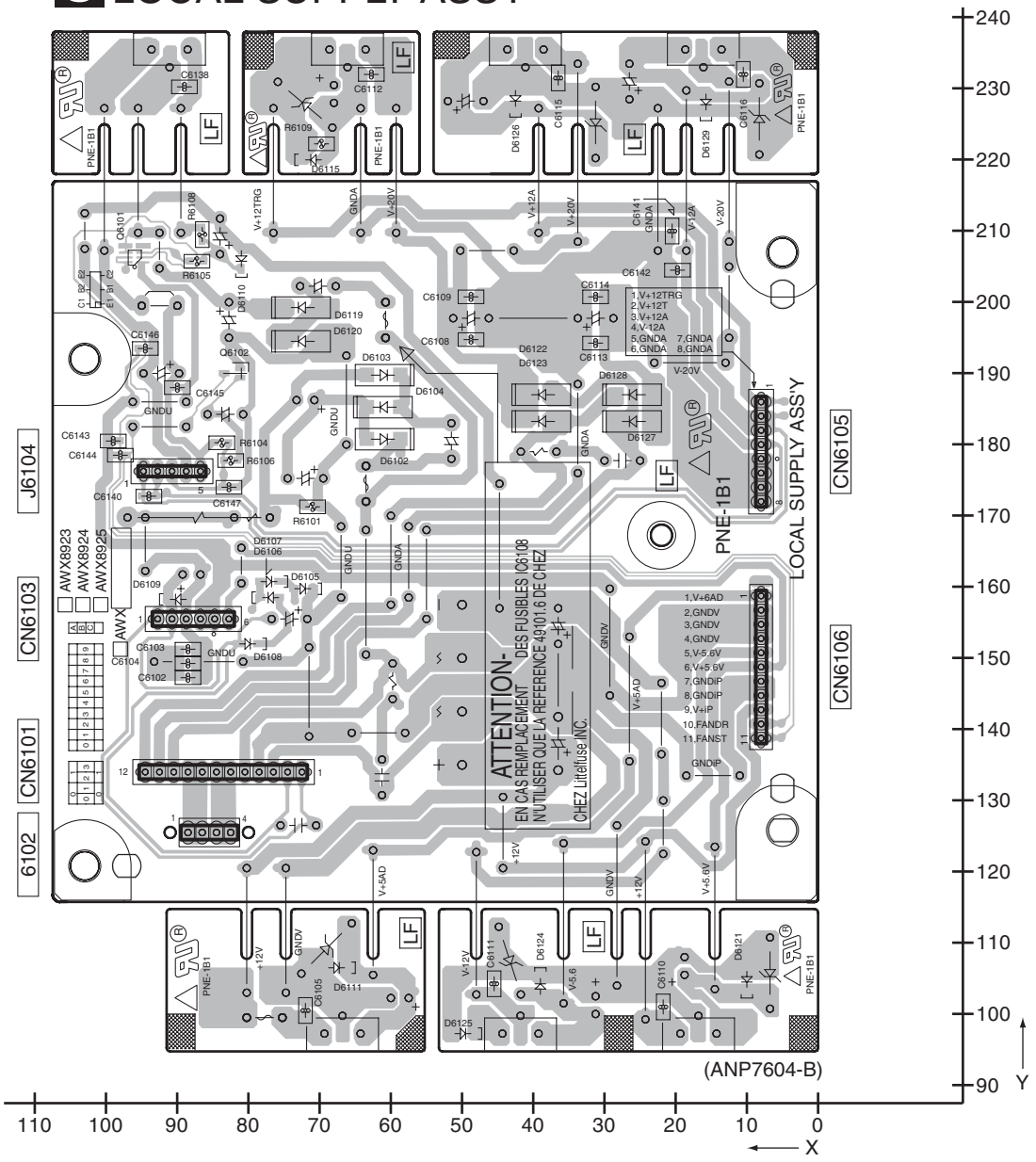


S T

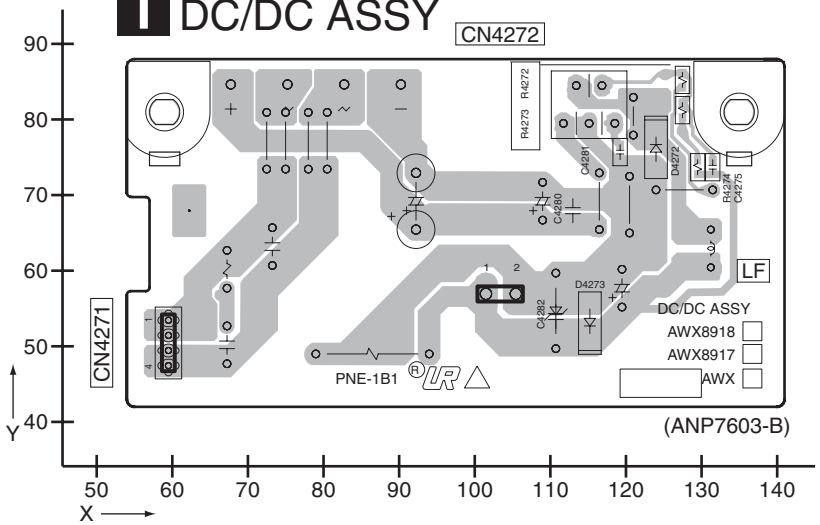
S T

SIDE B

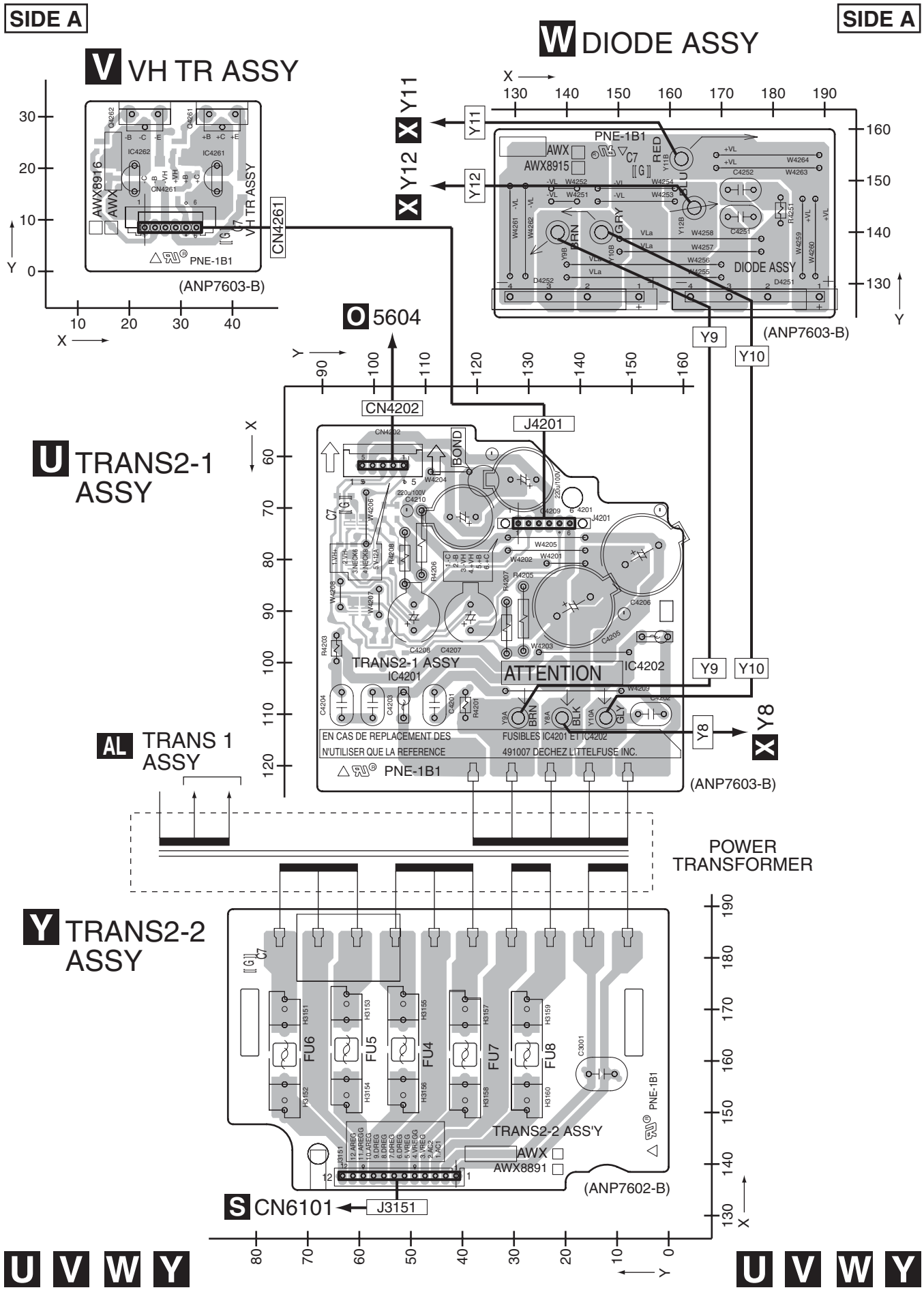
S LOCAL SUPPLY ASSY



T DC/DC ASSY

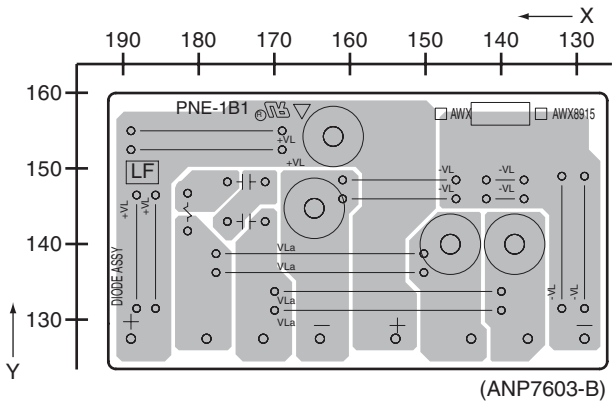


11.16 TRANS2-1, VH-TR, DIODE and TRANS2-2 ASSYS



SIDE B

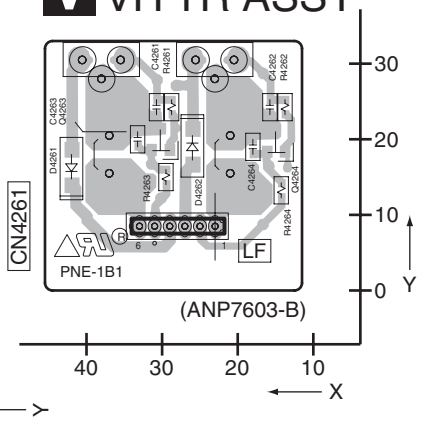
W DIODE ASSY



(ANP7603-B)

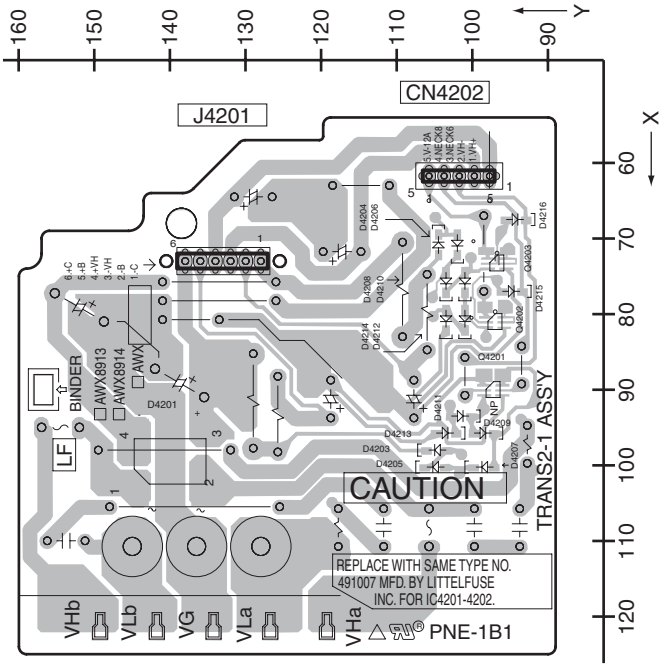
SIDE B

V VH TR ASSY



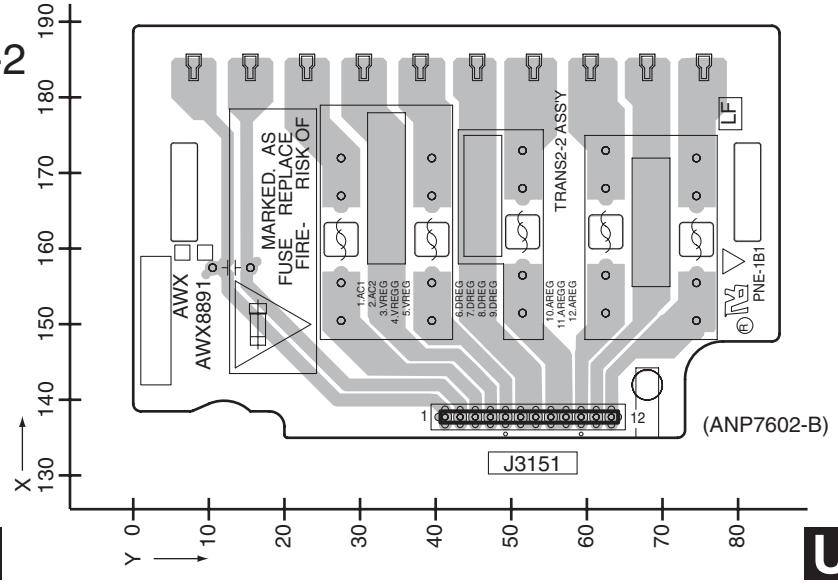
(ANP7603-B)

U TRANS2-1 ASSY



(ANP7603-B)

Y TRANS2-2 ASSY



(ANP7602-B)

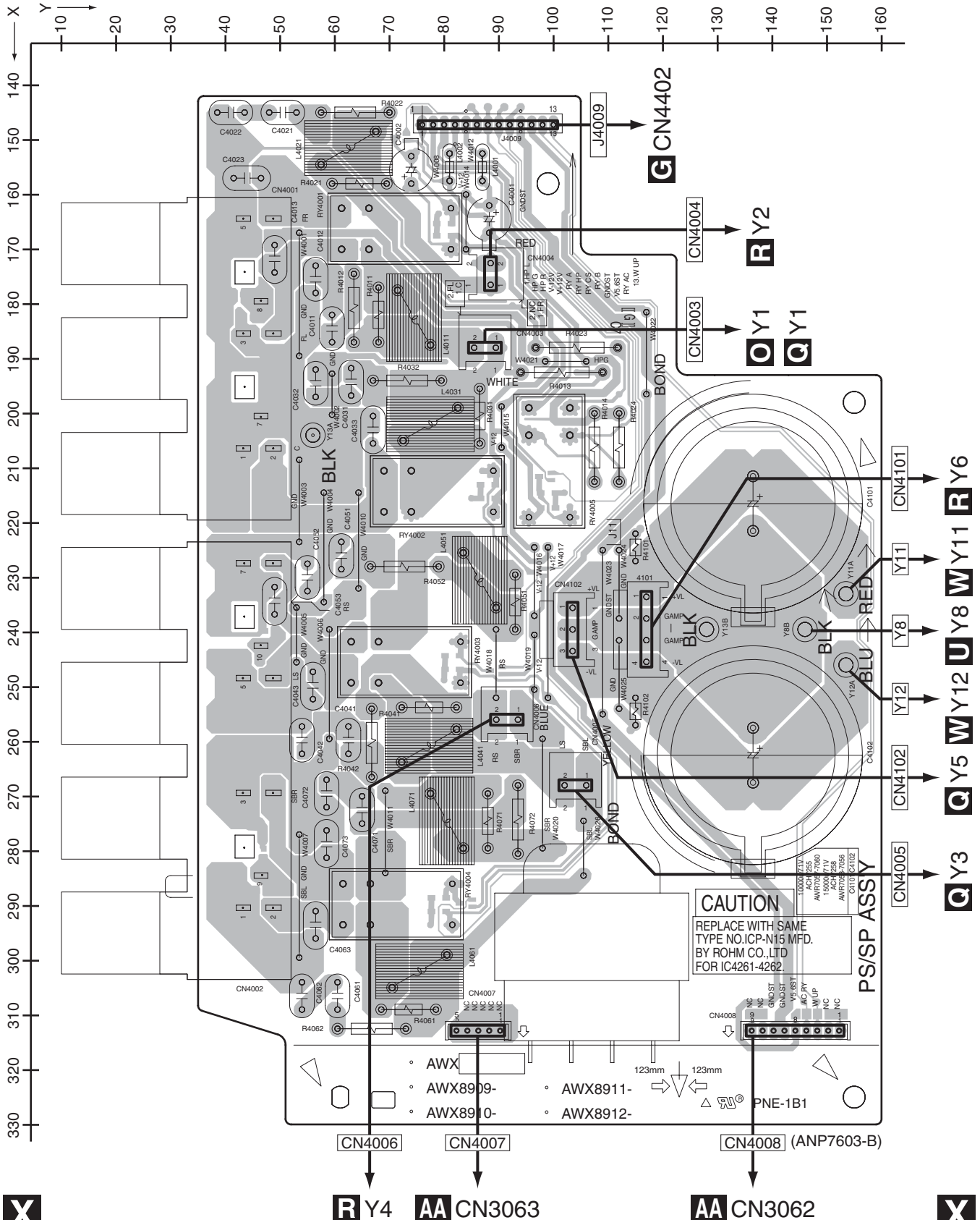
U V W Y

U V W Y

11.17 SP/PS ASSY

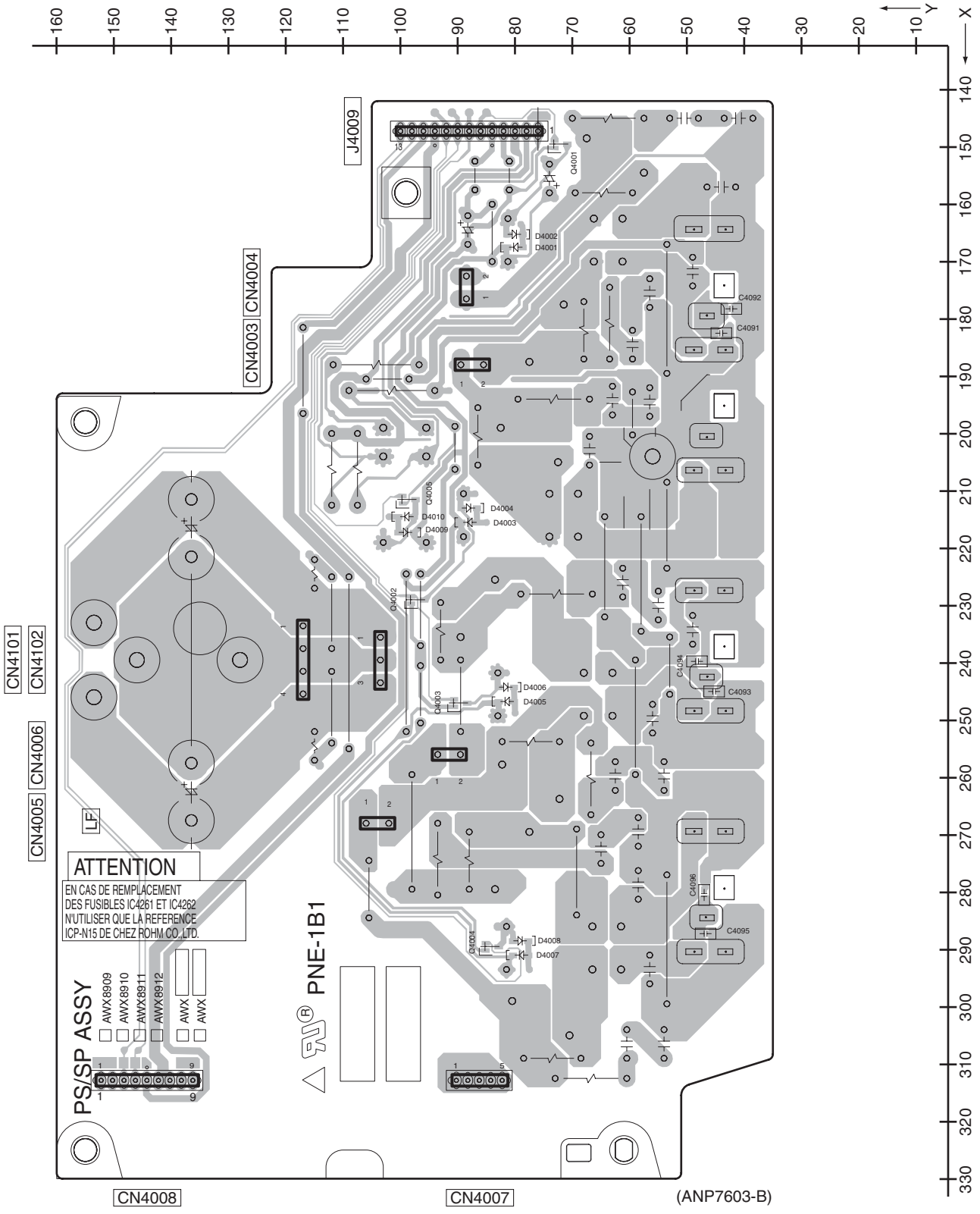
SIDE A **SIDE A**

X SP/PS ASSY

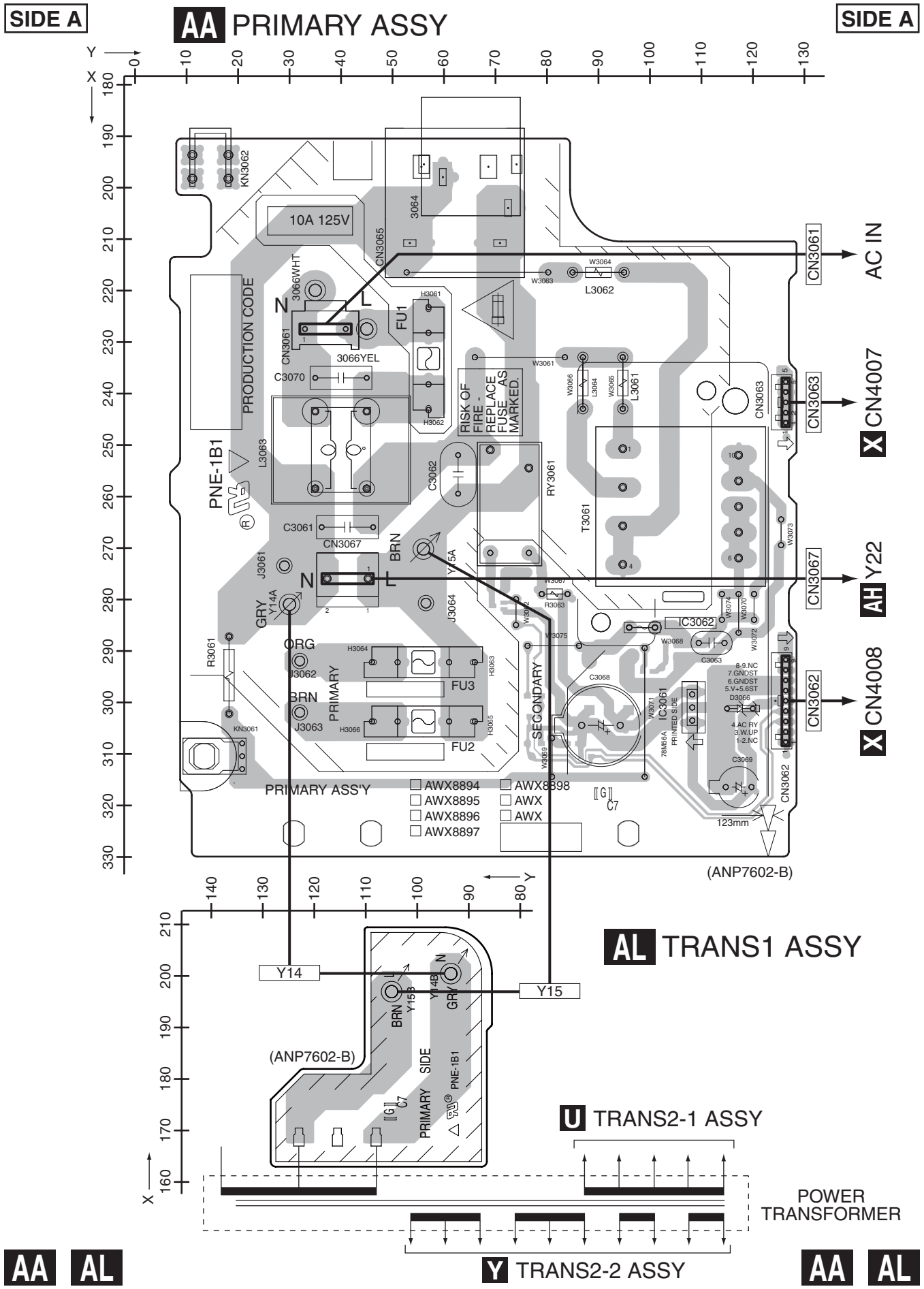


SIDE B

X SP/PS ASSY



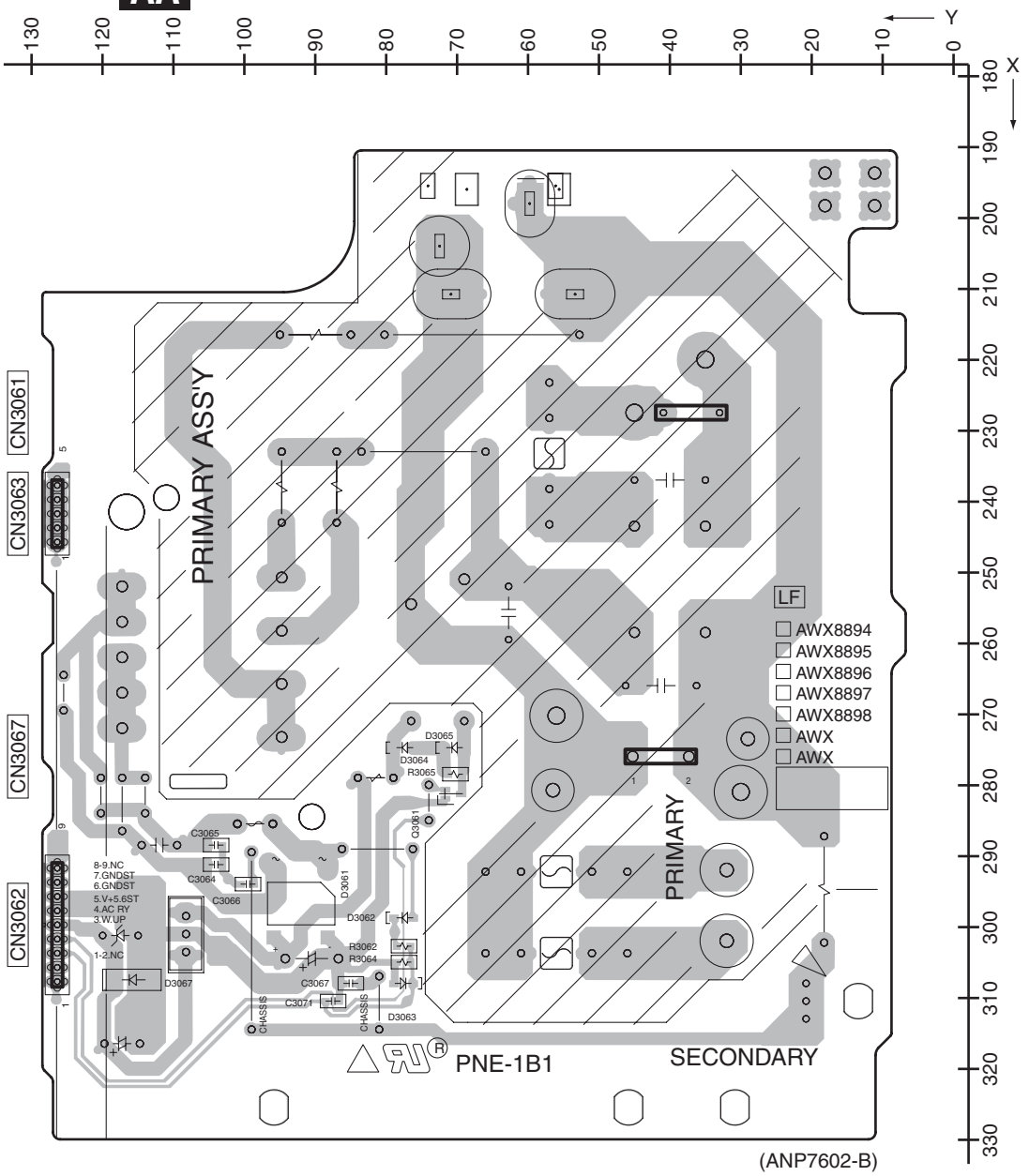
11.18 TRANS1 and PRIMARY ASSYS



SIDE B

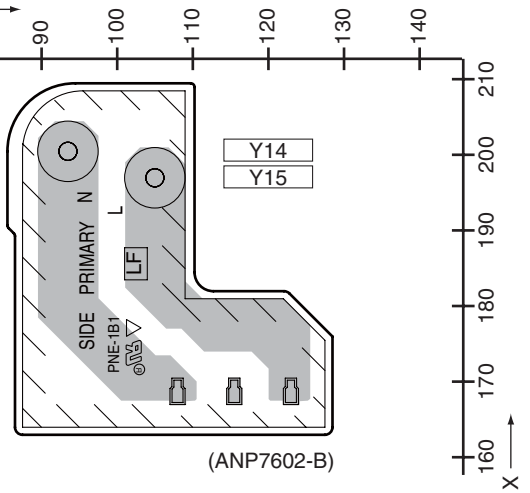
AA PRIMARY ASSY

SIDE B



(ANP7602-B)

AL TRANS1 ASSY



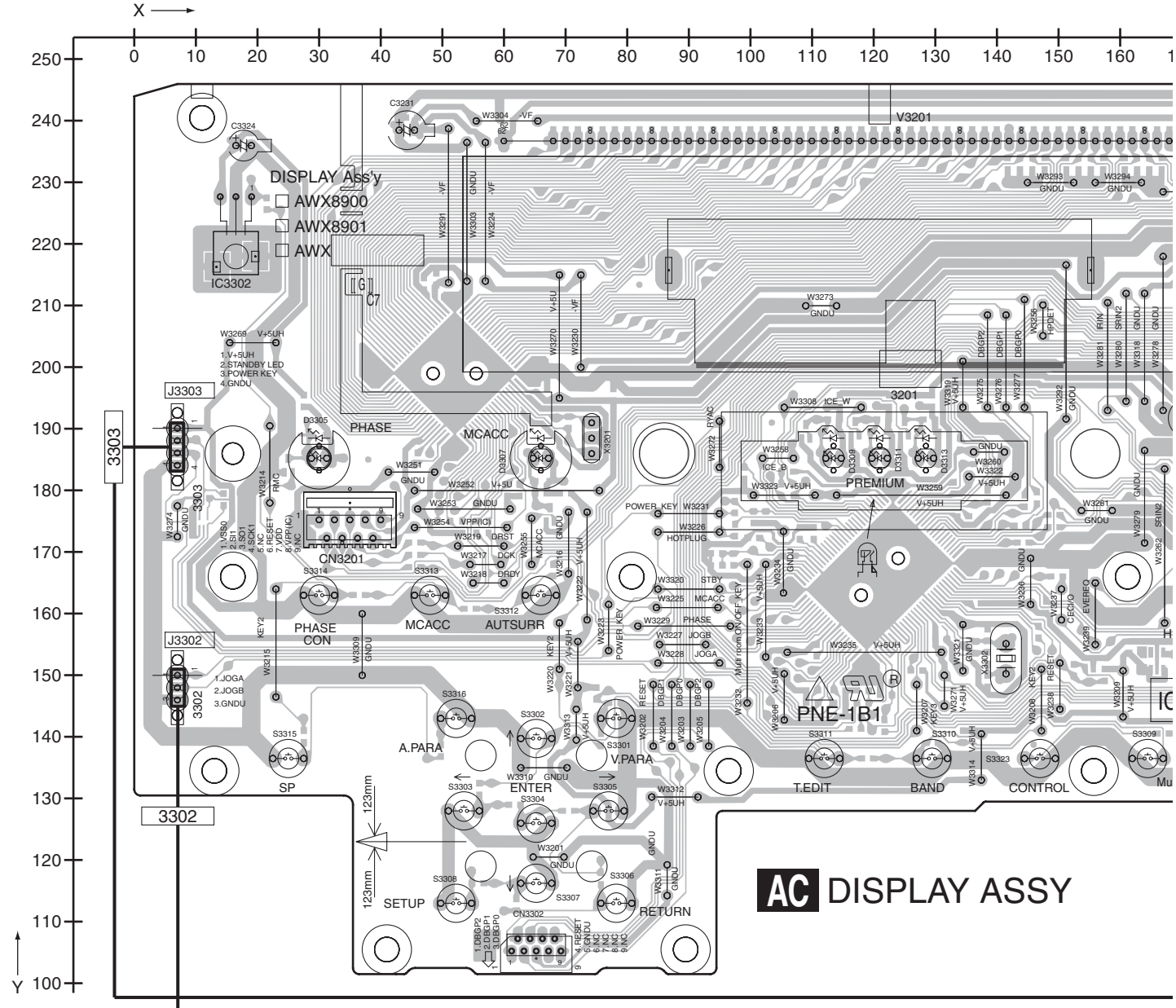
(ANP7602-B)

AA AL

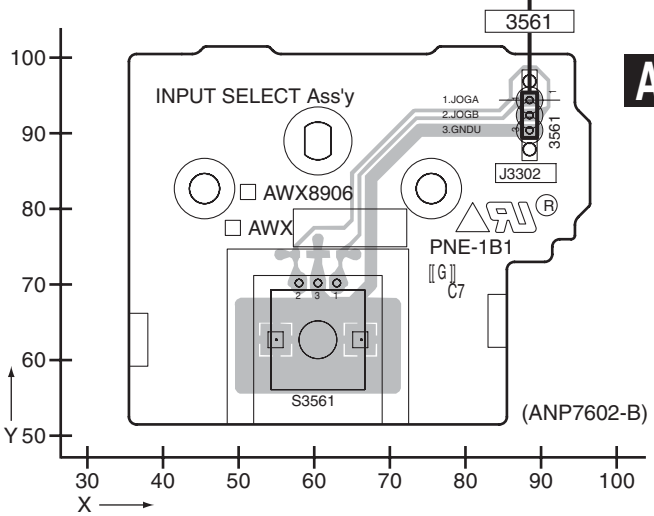
AA AL

11.19 POWER SW, VOLUME, DISPLAY and INPUT SELECT ASSYS

SIDE A

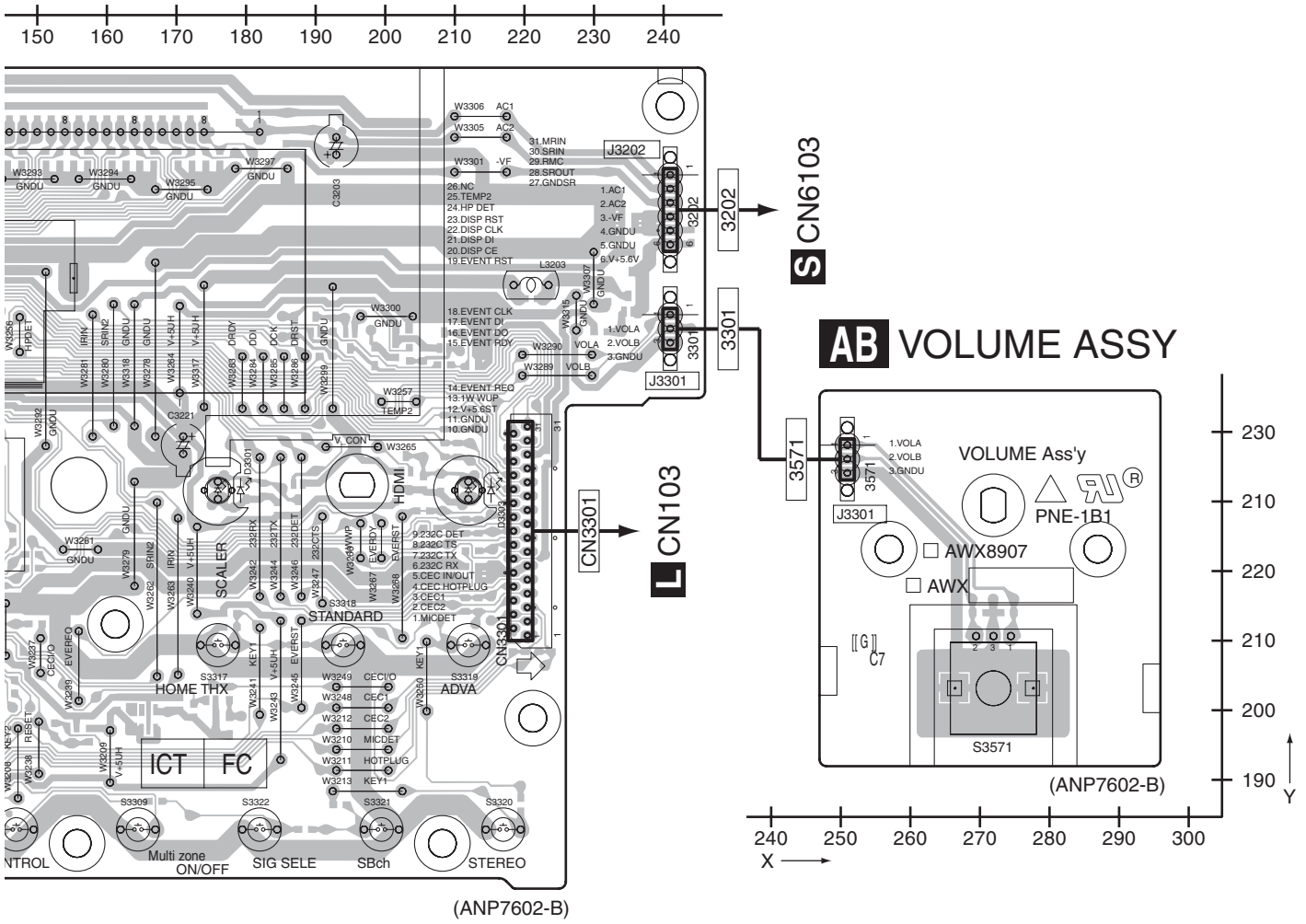


AC DISPLAY ASSY

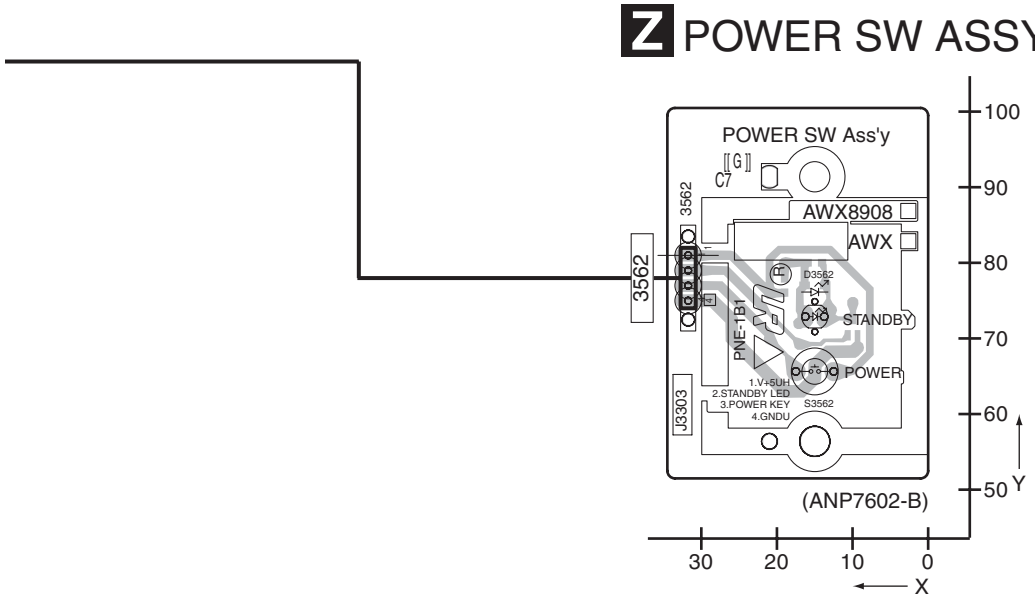


AD INPUT SELECT ASSY

AC **AD**

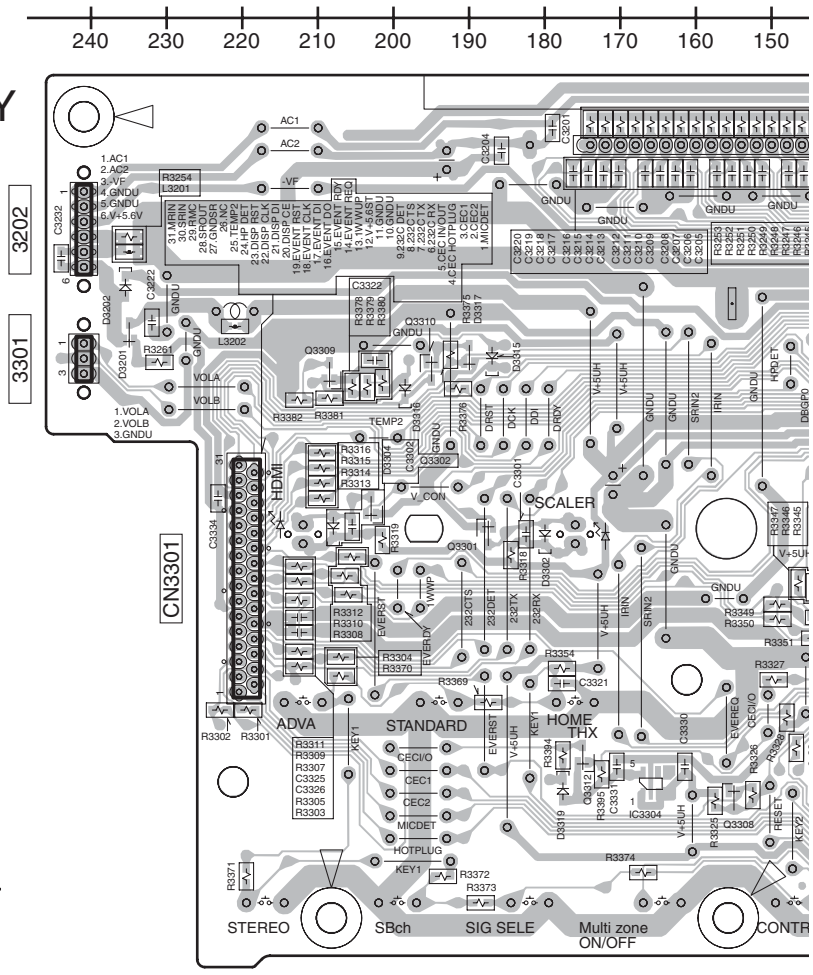

S CN6103
L CN103
AB VOLUME ASSY
VOLUME Ass'y
PNE-1B1
AWX8907
AWX
(ANP7602-B)
SCALER
HDMI
STANDARD
HOME THX
ADVA
ICT
FC
Multi zone ON/OFF
SIG SELE
SBch
STEREO
J3202
J3301
CN3301
3202
3301
3571
S3571

SY

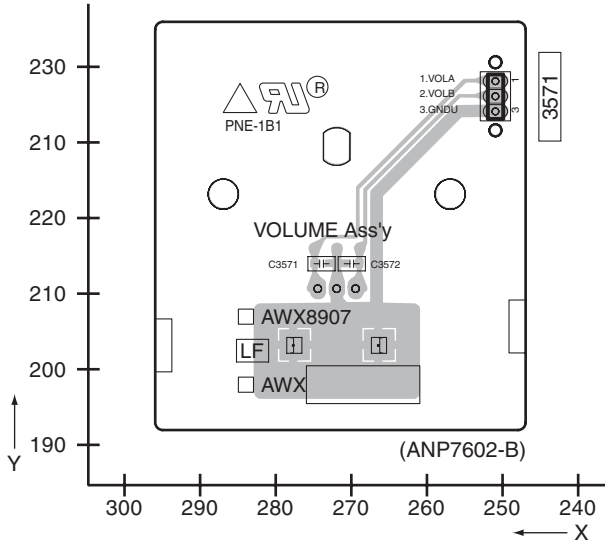

Z POWER SW ASSY
POWER SW Ass'y
AWX8908
AWX
PNE-1B1
STANDBY
POWER
3562
J3303
S3562
(ANP7602-B)

SIDE B

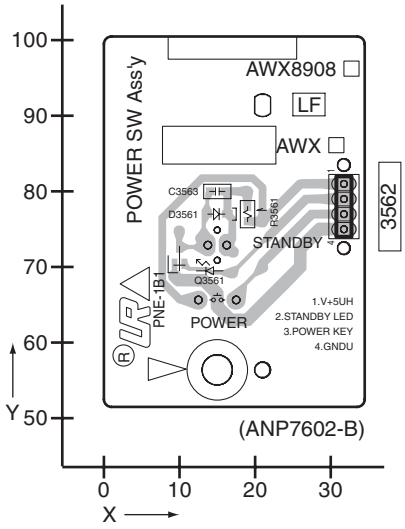
AC DISPLAY ASSY



AB VOLUME ASSY

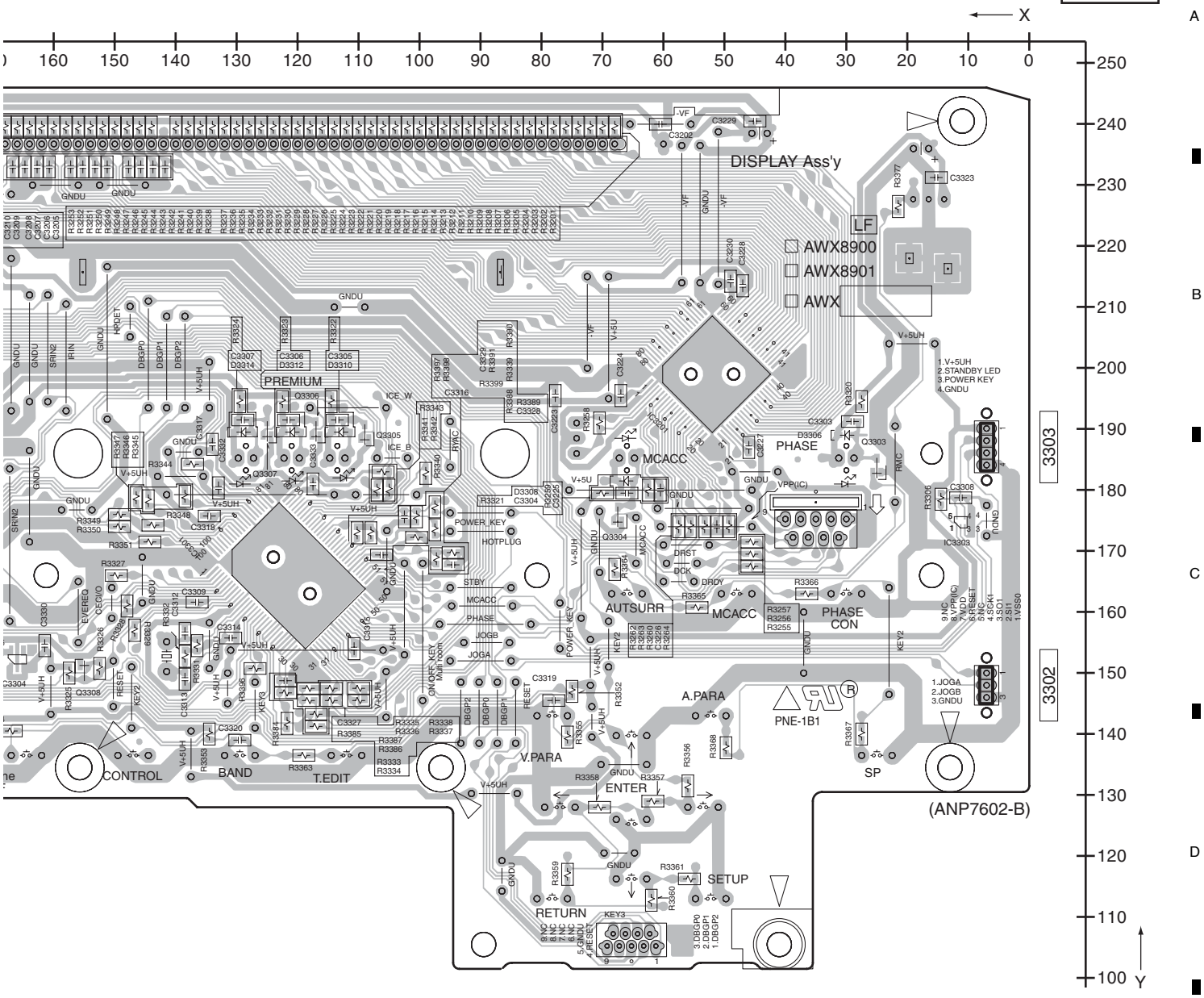


Z POWER SW ASSY

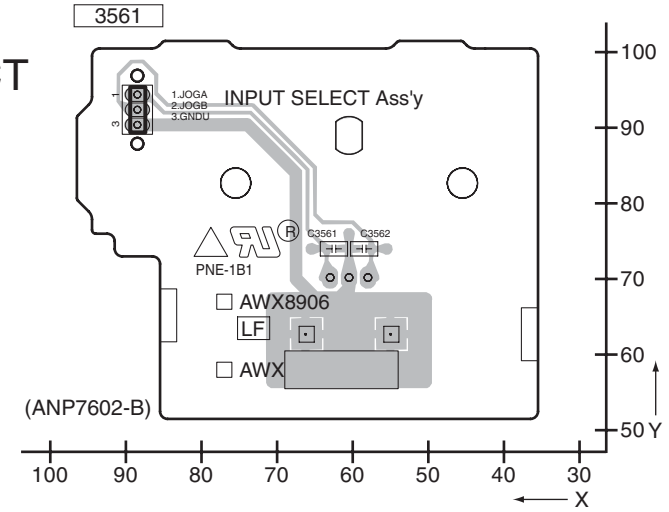


Z AB AC

SIDE B



AD INPUT SELECT ASSY

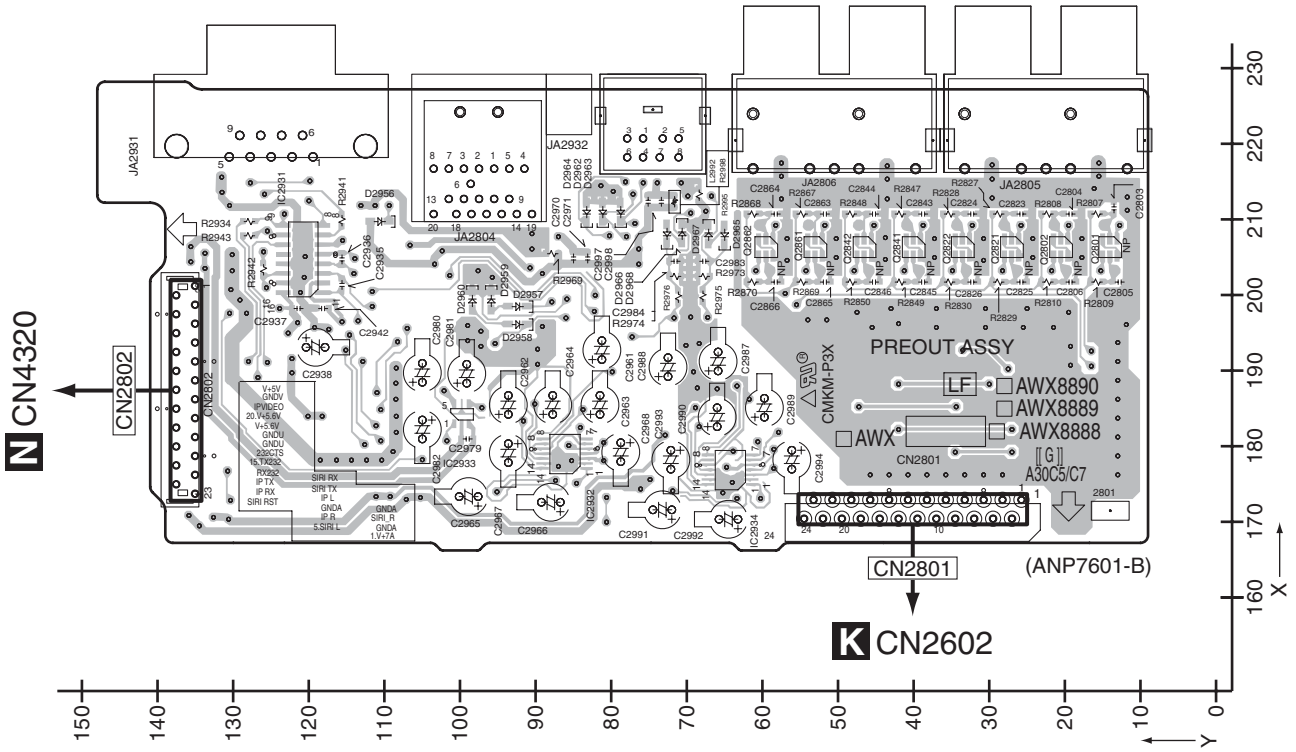


11.20 PREOUT & CONTROL ASSY

SIDE A

SIDE A

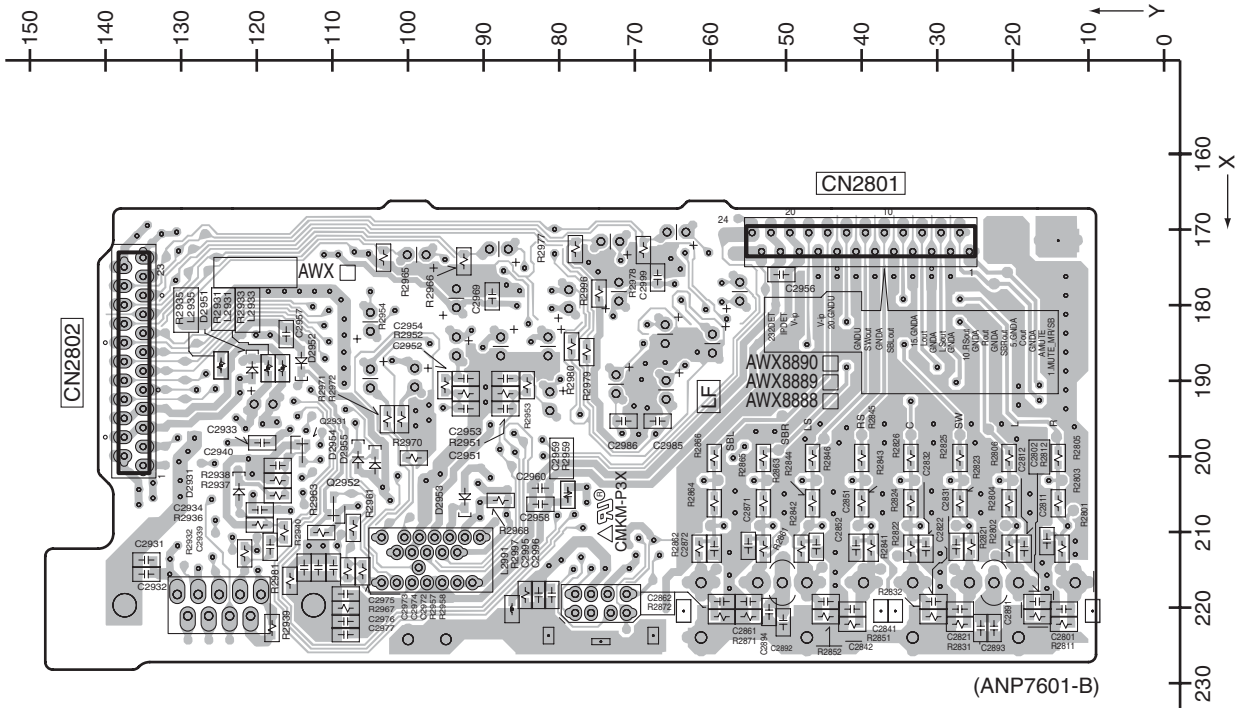
AE PREOUT & CONTROL ASSY



SIDE B

SIDE B

AE PREOUT & CONTROL ASSY



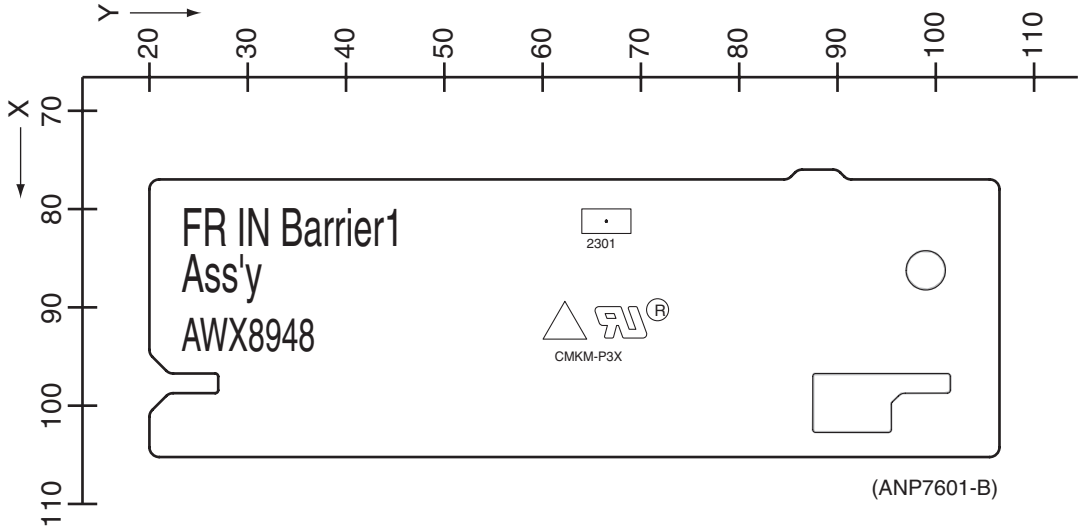
AE

AE

11.21 FR BARRIER 1 ASSY

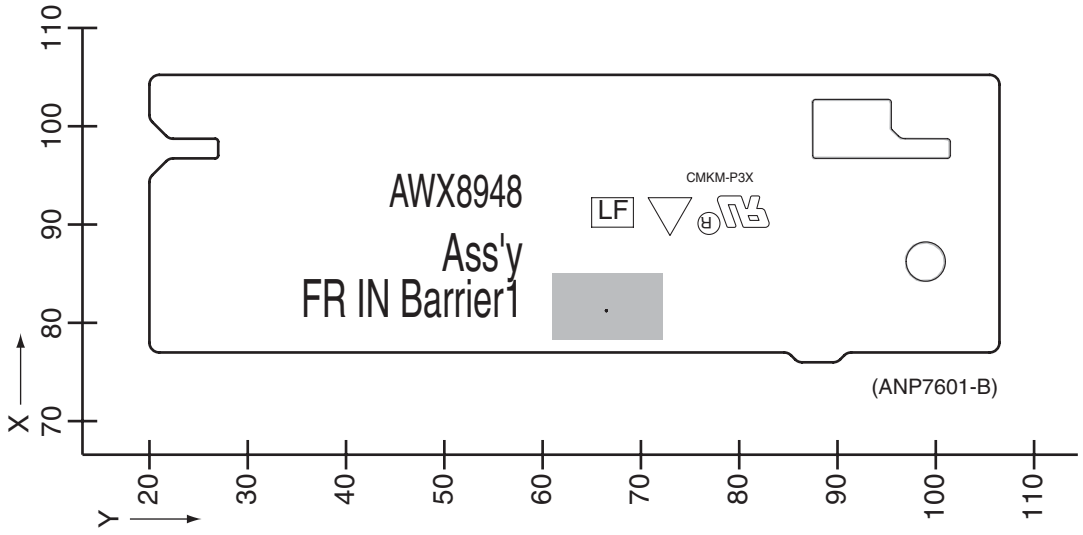
SIDE A **SIDE A**

AF FR IN BARRIER 1 ASSY



SIDE B **SIDE B**

AF FR IN BARRIER 1 ASSY



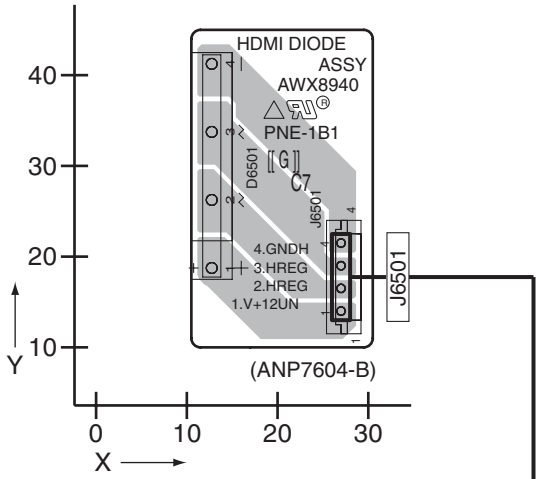
AF **AF**

11.22 HDMI POWER, HDMI TRANS and HDMI DIODE ASSYS

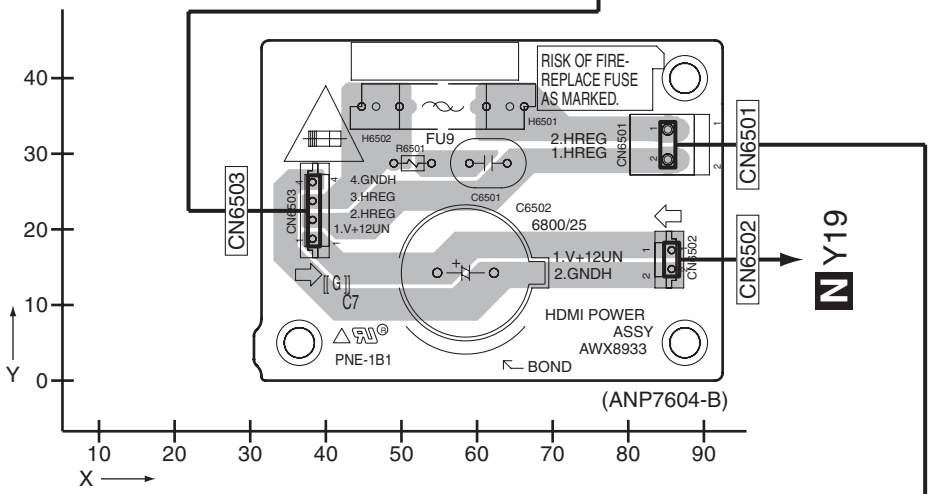
SIDE A

SIDE A

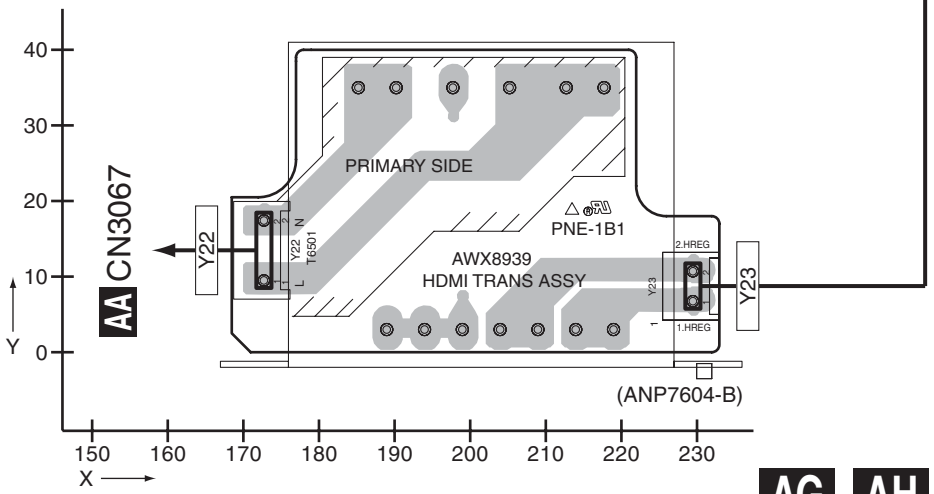
AI HDMI DIODE ASSY



AG HDMI POWER ASSY



AH HDMI TRANS ASSY



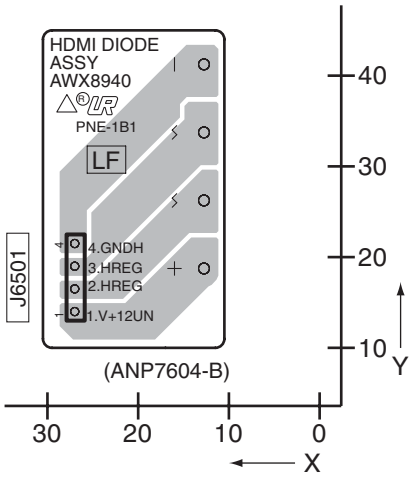
AG AH AI

AG AH AI

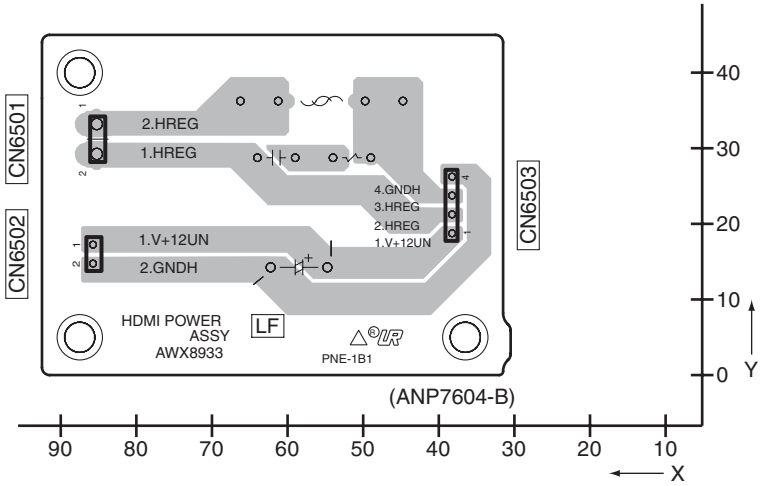
SIDE B

SIDE B

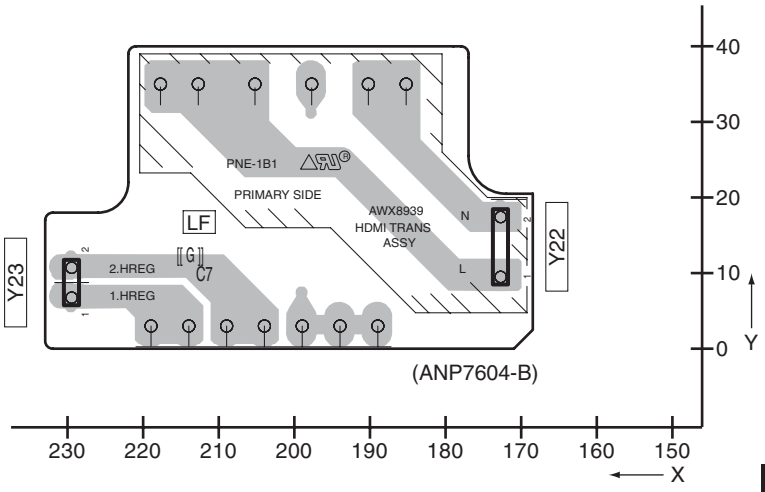
AI HDMI DIODE ASSY



AG HDMI POWER ASSY



AH HDMI TRANS ASSY



AG AH AI

AG AH AI

5 6 7 8

11.23 HDMI & DLNA ASSY (VSX-94TXH)

SIDE A

AJ HDMI & DLNA ASSY

L CN204

CN901

IC Q

IC701
IC881
IC801
Q1101 Q1201 Q1281
IC1201
IC1255 IC1205
IC151 IC504 IC503
Q1104
IC1257 IC1206
IC1101 IC1301 IC501
Q591
IC1204
Q1202
IC1252 IC101
Q1151 Q1251
IC1254
IC601 Q1252
IC202
Q1001 Q1002
IC1151 IC204
IC251 IC1001
Q1152
Q681 Q671 Q661 Q651 Q641 Q631
IC402
IC1041 IC301
Q353

K CN2703

CN502

CN1001

N CN4309

SIDE A

A

B

C

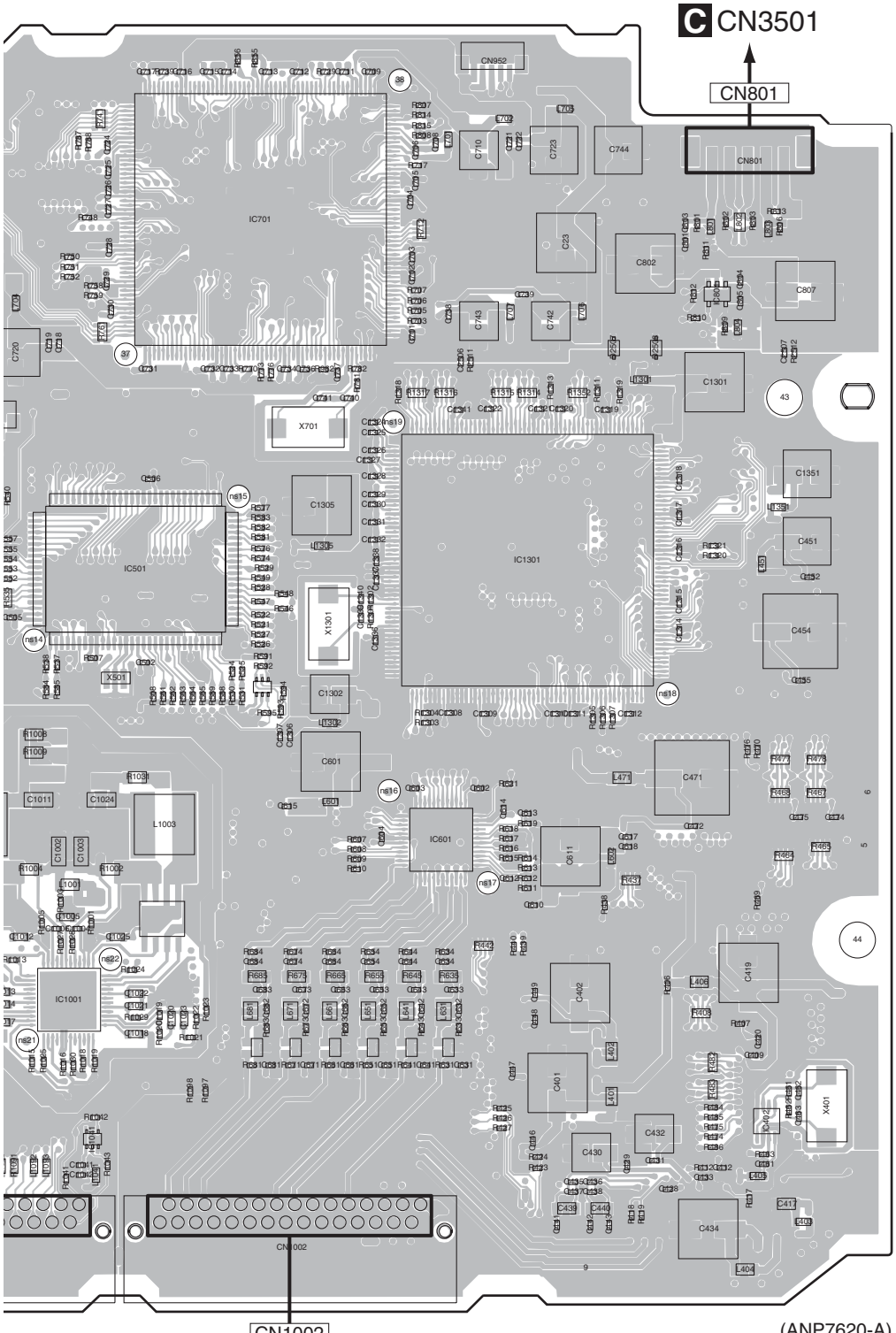
D

E

F

C CN3501

CN801



CN1002

(ANP7620-A)

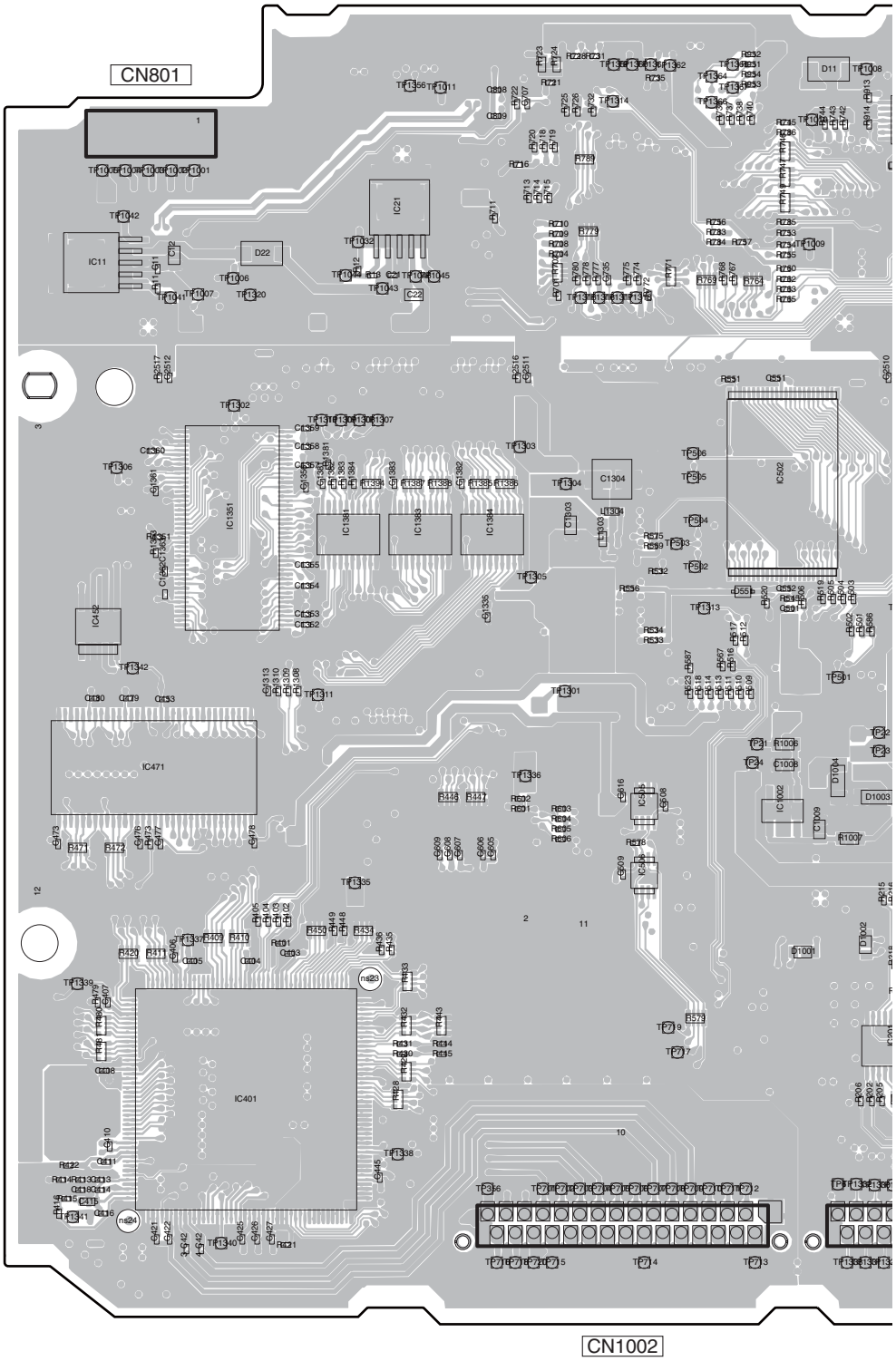
9

N CN4308

SIDE B

AJ HDMI & DLNA ASSY

IC	Q
IC31	
IC921	
IC911	
IC21	
IC891	
IC861	
IC11	
IC1202	
	Q151 Q1203 Q1253
	Q1103
IC502	
	Q152
IC1351	
IC1383 IC1384	
IC1381	
	Q1102
IC452	
IC1203	
IC1251	
IC471	
IC505 IC1002	
IC1253	
	Q1153
IC506	Q1154
IC203	
IC206	
IC205	
IC207	Q201
IC1051	
	Q1052
IC201	
IC1071	Q1051
	Q301
IC401	
	Q351
	Q352



SIDE B

A

B

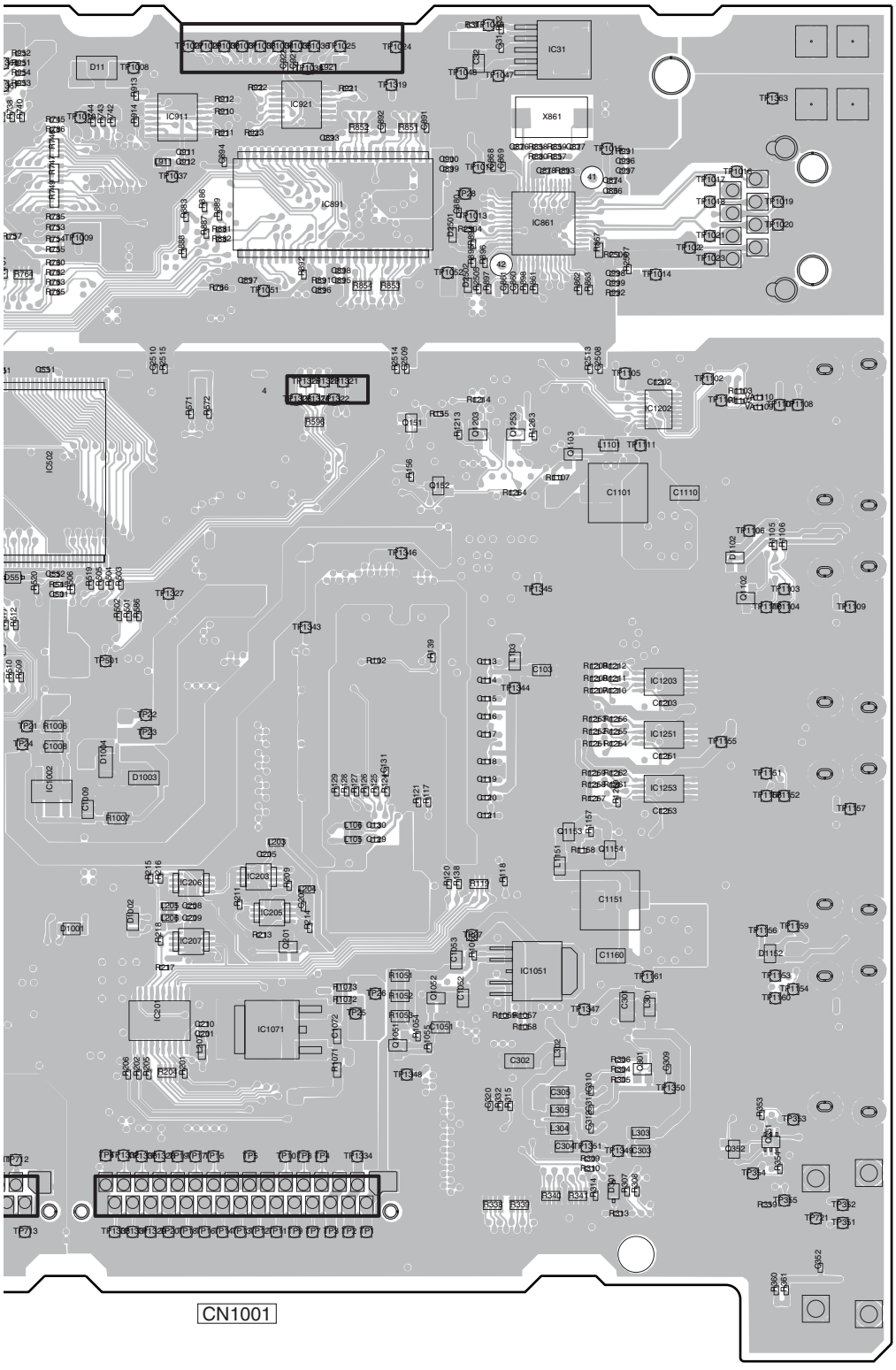
C

D

E

F

CN901



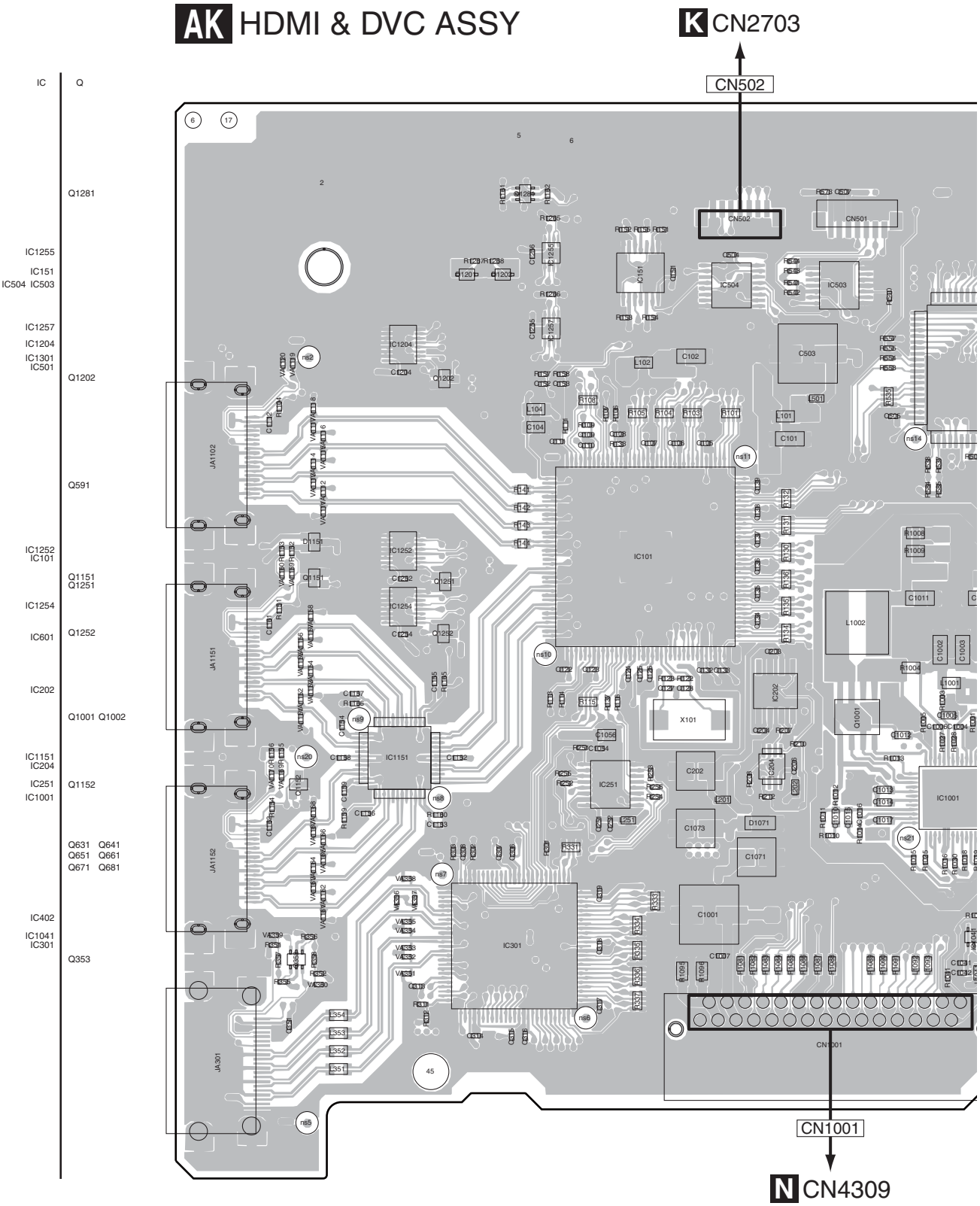
CN502

CN1001

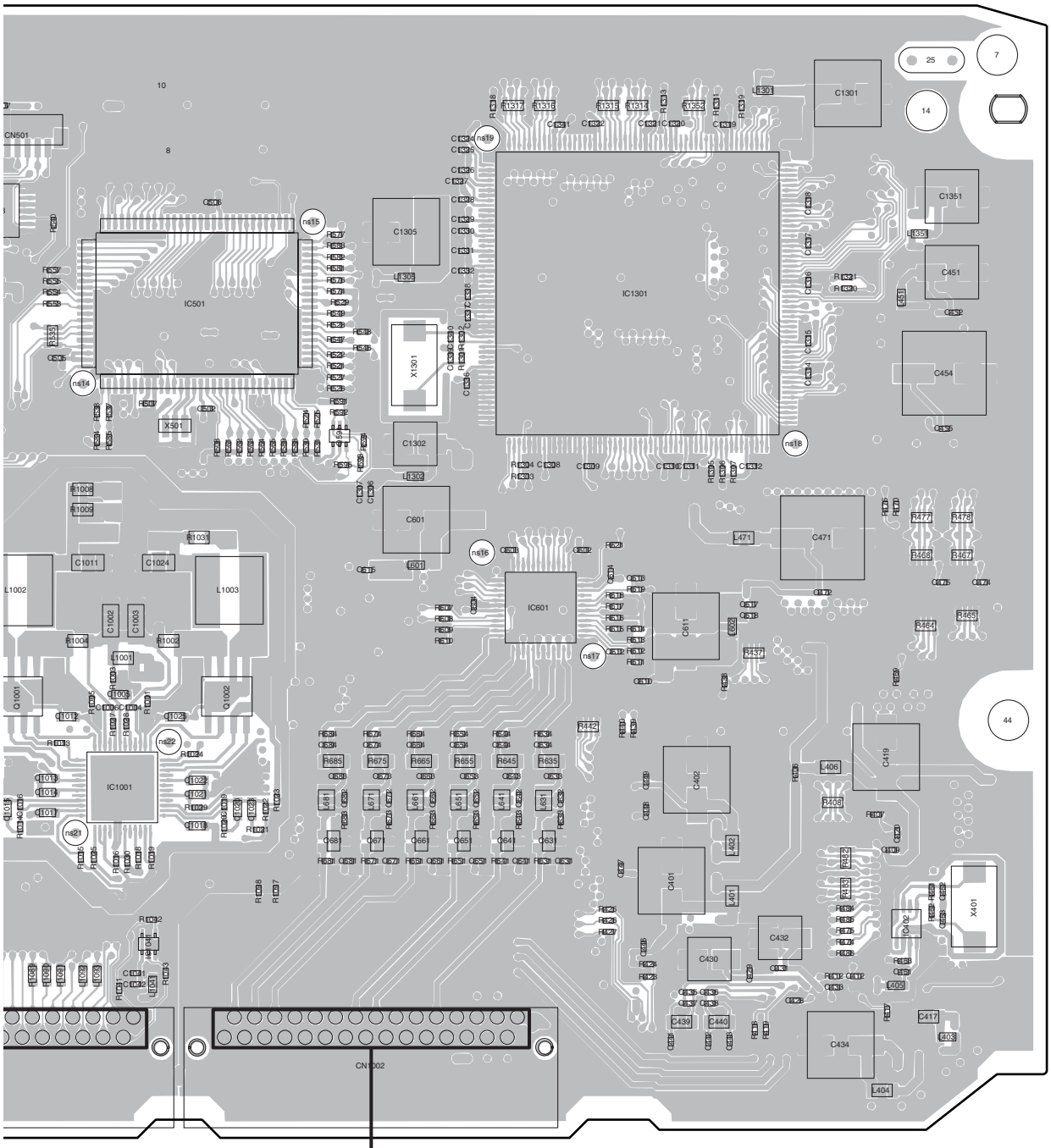
(ANP7620-A)

11.24 HDMI & DVC ASSY (VSX-92TXH)

SIDE A



SIDE A



CN1002

(ANP7621-A)

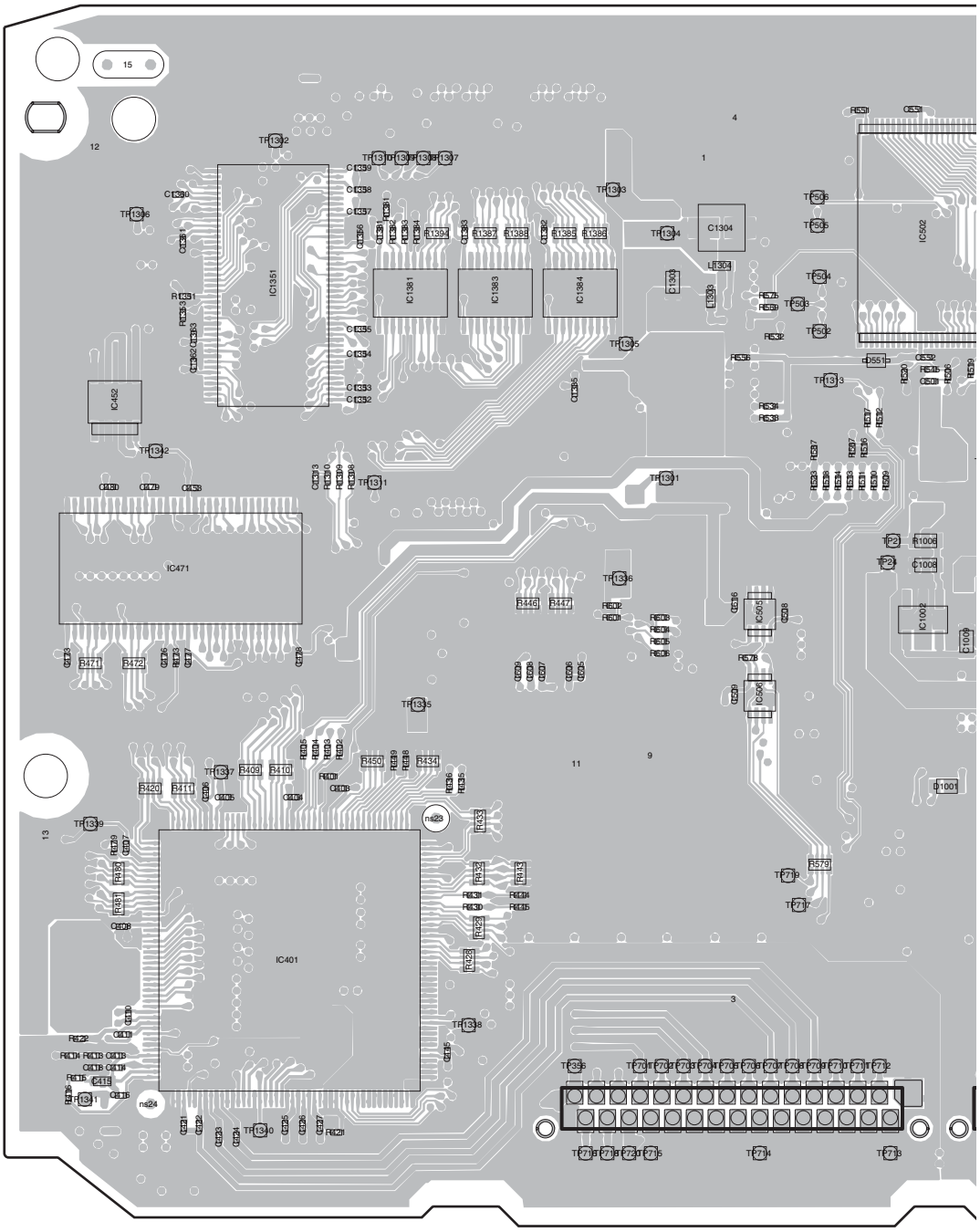
4309

N CN4308

SIDE B

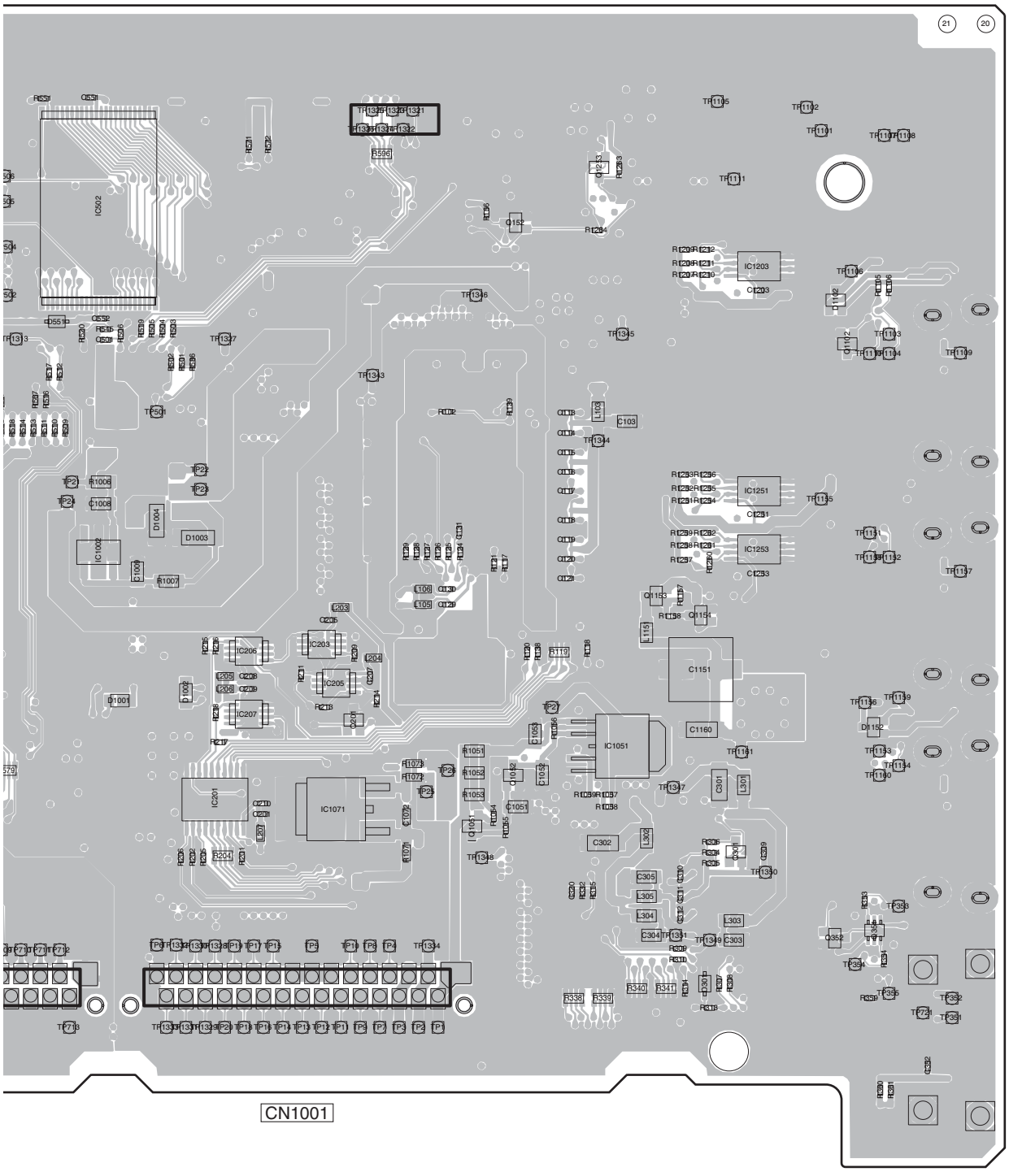
AK HDMI & DVC ASSY

IC	Q
	Q1253
IC502	Q152
IC1351 IC1381 IC1383 IC1384 IC1203	
	Q1102
IC452	
IC1251 IC471	
IC505 IC1253 IC1002	
	Q1153
IC506	Q1154
IC203 IC206	
IC205	
IC207	Q201
IC1051	
	Q1052
IC201 IC1071	
	Q1051
IC401	Q301
	Q351 Q352



SIDE B

CN502



CN1001

(ANP7621-A)

12. PCB PARTS LIST

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

● *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 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10^1 → 561 ····· RD1/4PU 5 6 1 J
47k Ω → 47 x 10^3 → 473 ····· RD1/4PU 4 7 3 J
0.5 Ω → R50 ····· RN2H R 5 0 K
1 Ω → 1R0 ····· RS1P 1 R 0 K

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

5.62k Ω → 562 x 10^1 → 5621 ····· RN1/4PC 5 6 2 1 F

● *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

LIST OF ASSEMBLIES

Mark	Symbol and Description	VSX-94TXH/ KUXJ/CA	VSX-92TXH/ KUXJ/CA
NSP	1..POWER AMP ASSY	AWH7011	AWH7011
	2..POWER AMP-L ASSY	AWX8654	AWX8654
	2..POWER AMP-R ASSY	AWX8656	AWX8656
	2..POWER PROTECT ASSY	AWX8658	AWX8658
	2..POWER AMP IN ASSY	AWX8662	AWX8662
NSP	1..COMPLEX ASSY	AWM8081	AWM8086
	2..TRANS 2-2 ASSY	AWX8891	AWX8891
	2..PRIMARY ASSY	AWX8894	AWX8894
NSP	2..FFC GUARD (FRONT) ASSY	AWX8899	AWX8899
	2..DISPLAY ASSY	AWX8900	AWX8900
	2..FRONT-IN ASSY	AWX8902	AWX8903
	2..HEADPHONE ASSY	AWX8905	AWX8905
	2..INPUT SELECT ASSY	AWX8906	AWX8906
	2..VOLUME ASSY	AWX8907	AWX8907
	2..POWER SW ASSY	AWX8908	AWX8908
	1..DIGITAL MOTHER ASSY	AWP7046	AWP7052
NSP	1..VIDEO ASSY	AWQ7051	AWQ7051
	2..COMPOSITE V ASSY	AWX8884	AWX8884
	2..S VIDEO ASSY	AWX8886	AWX8886
	2..PREOUT & CONTROL ASSY	AWX8888	AWX8888
NSP	2..FR IN BARRIER1 ASSY	AWX8948	AWX8948
	1..COMPONENT & VOL ASSY	AWQ7041	AWQ7046
NSP	1..SECONDARY ASSY	AWR7053	AWR7057
	2..SP/PS ASSY	AWX8909	AWX8911
	2..TRANS 2-1 ASSY	AWX8913	AWX8913
NSP	2..DIODE ASSY	AWX8915	AWX8915
	2..VH TR ASSY	AWX8916	AWX8916
	2..DC/DC ASSY	AWX8917	AWX8918
	2..INTERFACE ASSY	AWX8919	AWX8919
NSP	2..TRANS SIDE ASSY	AWX8921	AWX8921
NSP	1..AUDIO ASSY	AWR7061	AWR7061
	2..LOCAL SUPPLY ASSY	AWX8923	AWX8923
	2..AUDIO & MULTI CH IN ASSY	AWX8926	AWX8926
	2..V-AUDIO ASSY	AWX8930	AWX8930
NSP	2..HDMI POWER ASSY	AWX8933	AWX8933
NSP	2..BRIDGE 1 ASSY	AWX8934	AWX8934
NSP	2..BRIDGE 2 ASSY	AWX8935	AWX8935
NSP	2..BRIDGE 3 ASSY	AWX8936	AWX8936
NSP	2..FFC GUARD (SIDE) ASSY	AWX8937	AWX8937
	2..HDMI TRANS ASSY	AWX8939	AWX8939

Mark	Symbol and Description	VSX-94TXH/ KUXJ/CA	VSX-92TXH/ KUXJ/CA
	2..HDMI DIODE ASSY	AWX8940	AWX8940
	1..DSP ASSY	AWX8869	AWX8869
	1..HDMI & DLNA ASSY	AWX8870	Not used
	1..HDMI & DVC ASSY	Not used	AWX8871
	1..FM/AM TUNER MODULE	AXX7250	AXX7250

CONTRAST OF PCB ASSEMBLIES

C FRONT-IN ASSY

AWX8902 and AWX8903 are constructed the same except for the following:

Mark	Symbol and Description	AWX8902	AWX8903
	D3502,D3504	UMZU6.2N-TLB	Not used
	C3503	CKSRYB104K16	Not used
	R3501-R3509	RS1/16S0R0J	Not used
	R3510	RS1/16S222J	Not used
	R351, R3512	RS1/16S0R0J	Not used
	CN3501 5P Plug	KM200NA5	Not used
	JA3501 USB Connector	XKP3086	Not used
	3501 PCB Binder	VEF1040	Not used

K COMPONENT & VOL ASSY

AWQ7041 and AWQ7046 are constructed the same except for the following:

Mark	Symbol and Description	AWQ7041	AWQ7046
	IC2631, IC2635	TC4053BFN	Not used
	IC2633, IC2634	BA4560RF	Not used
	Q2630, Q2632, Q2633	RT1N241M	Not used
	C2631, C2632	CKSRYB103K50	Not used
	C2639, C2640, C2643, C2644	CCSRCH220J50	Not used
	C2641, C2642	CKSRYB103K50	Not used
	C2645, C2645	CEAT100M50	Not used
	C2647, C2648, C2651, C2652	CKSRYB103K50	Not used
	R2641, R2642, R2653, R2654	RS1/16S472J	Not used
	R2643, R2644	RS1/16S101J	Not used
	R2645, R2646, R2651, R2652	RS1/16S113J	Not used
	R2647, R2648	RS1/16S0R0J	Not used
	R2649, R2650	RS1/16S153J	Not used
	R2655, R2656	RS1/16S474J	Not used
	R2659-R2662	Not used	RS1/16S0R0J
	R2690-R2692	RS1/16S473J	Not used

L DIGITAL MOTHER ASSY

AWP7046 and AWP7052 are constructed the same except for the following:

Mark	Symbol and Description	AWP7046	AWP7052
	IC901	AK4387ET	Not used
	IC307	TC74LCX157FTS1	Not used
	IC315	TC74LCX541FTS1	Not used
	IC902	BA4560RF	Not used
	L307, L315, L901	QTL1013	Not used
	C307, C919, C917, C920	CKSRYB104K16	Not used
	C331, C346	CKSSYB104K10	Not used
	C332	CKSSYB471K50	Not used
	C903, C904	CCSRCH391J50	Not used
	C905, C906, C921, C922	CKSRYB103K50	Not used
	C907, C908	CEAT100M50	Not used
	C909, C910	CCSRCH471J50	Not used

Mark	Symbol and Description	AWP7046	AWP7052
	C916, C918	CEAT470M16	Not used
	C901	CEAT220M50	Not used
	C902	CEAT220M50	Not used
	R104, R126, R127, R130, R137, R250	RS1/16S104J	Not used
	R129, R136, R313, R349, R555, R915	RS1/16SS101J	Not used
	R152, R154	RS1/16S473J	Not used
	R153	Not used	RS1/16S473J
	R351, R355, R358, R361, R400, R433	RS1/16SS470J	Not used
	R352, R356, R359, R922	RS1/16S0R0J	Not used
	R353, R655, R755, R916, R918	RS1/16SS101J	Not used
	R362, R557, R756, R757, R556, R656	RS1/16SS0R0J	Not used
	R434, R435, R436	RS1/16SS470J	Not used
	R657, R917	RS1/16SS0R0J	Not used
	R901, R902	RS1/16S223J	Not used
	R903, R904	RS1/16S302J	Not used
	R905, R906	RS1/16S392J	Not used
	R907-R910	RS1/16S332J	Not used
	R911, R912	RS1/16S221J	Not used
	R913, R914	RS1/16S474J	Not used
	R920	RS1/16S4R7J	Not used
	R125, R919	RAB4CQ101J	Not used
	R437	RAB4CQ470J	Not used
	JA207 Optical Transmit Module	AKS7002	Not used
	CN204 22P FFC Connector	RKN1063	Not used

T DC/DC ASSY

AWX8917 and AWX8918 are constructed the same except for the following:

Mark	Symbol and Description	AWX8917	AWX8918
	L4271	ATH7044	ATH7052
	C4272	CEAT103M16	CEAT682M25
	C4273	CEHAZL102M6R3	CEHAZL331M6R3
	C4274	CEHAZL102M16	CEHAZL471M25

X SP/PS ASSY

AWX8909 and AWX8911 are constructed the same except for the following:

Mark	Symbol and Description	AWX8909	AWX8911
	C4101, C4102	ACH7258	ACH7255

PCB PARTS LIST FOR VSX-94TXH UNLESS OTHER WISE NOTED

Mark	No.	Description	Part No.

POWER AMP ASSY (AWH7011)

MISCELLANEOUS

J	13	JUMPER WIRE	D20PDY0525E
Y	1	LEAD WITH HOUSING	ADX7459
Y	6	LEAD WITH HOUSING	ADX7498
Y	2	LEAD WITH HOUSING	ADX7457
Y	3	LEAD WITH HOUSING	ADX7458
Y	4	LEAD WITH HOUSING	ADX7460
Y	5	LEAD WITH HOUSING	ADX7404

COMPLEX ASSY (AWM8081)

MISCELLANEOUS

J	3301	3P JUMPER WIRE	D20PDD0310E
J	3302	3P JUMPER WIRE	D20PDD0315E
J	3303	4P JUMPER WIRE	D20PDD0415E
⚠ Y	15	AWG18 BOARD IN	ADX7491
⚠ Y	14	AWG18 BOARD IN	ADX7604

SECONDARY ASSY (AWR7053)

MISCELLANEOUS

Y	8	AWG14 BOARD IN	ADX7451
Y	9	AWG14 BOARD IN	ADX7488
Y	10	AWG14 BOARD IN	ADX7489
Y	11	AWG14 BOARD IN	ADX7454
Y	12	AWG14 BOARD IN	ADX7455

FFC GUARD (FRONT) ASSY (AWX8899)

MISCELLANEOUS

3152(A,322,161)	PCB BINDER	VEF1040
3151(A,302,132)	PCB BINDER	VEF1040

FFC GUARD (SIDE) ASSY (AWX8937)

MISCELLANEOUS

5862(A,175,32)	PCB BINDER	VEF1040
5861(A,170,77)	PCB BINDER	VEF1040

A AUDIO & MULTI CH IN ASSY

MISCELLANEOUS

IC 6201(B,71,191)	AUDIO IC	BD3841FS
IC 6203(B,130,185)	OP-AMP IC	BA4560RF
JA 6401(A,14,230)	JACK	AKN-209
CN6202(A,20,178)	17P SOCKET	XKP3079
CN6203(A,109,174)	23P SOCKET	XKP3082
CN6204(A,66,174)	15P SOCKET	XKP3078
CN6205(A,133,230)	PIN JACK(4P)	AKB7172
CN6207(A,91,230)	PIN JACK(4P)	AKB7172
CN6208(A,63,230)	PIN JACK(4P)	AKB7172
CN6209(A,35,230)	PIN JACK(4P)	AKB7172
6201(A,141,173)	PCB BINDER	VEF1040

RESISTORS

R 6201(B,122,215)		RS1/16S473J
R 6202(B,126,215)		RS1/16S473J
R 6205(B,96,215)		RS1/16S104J
R 6206(B,100,215)		RS1/16S104J
R 6207(B,82,215)		RS1/16S473J
R 6208(B,86,215)		RS1/16S473J
R 6209(B,68,215)		RS1/16S223J
R 6210(B,72,215)		RS1/16S223J
R 6211(B,54,215)		RS1/16S474J
R 6212(B,58,215)		RS1/16S474J
R 6213(B,41,215)		RS1/16S474J
R 6214(B,45,215)		RS1/16S474J
R 6215(B,27,213)		RS1/16S474J
R 6216(B,31,213)		RS1/16S474J
R 6217(B,119,214)		RS1/16S331J
R 6218(B,128,214)		RS1/16S331J
R 6221(B,93,214)		RS1/16S222J
R 6222(B,102,214)		RS1/16S222J
R 6223(B,79,214)		RS1/16S331J
R 6224(B,88,214)		RS1/16S331J
R 6225(B,65,214)		RS1/16S331J
R 6226(B,74,214)		RS1/16S331J
R 6227(B,52,214)		RS1/16S331J
R 6228(B,61,214)		RS1/16S331J
R 6229(B,38,214)		RS1/16S331J
R 6230(B,47,214)		RS1/16S331J
R 6231(B,24,212)		RS1/16S331J
R 6232(B,33,212)		RS1/16S331J
R 6237(B,96,204)		RS1/16S154J
R 6238(B,100,204)		RS1/16S154J
R 6251(B,135,212)		RS1/16S104J
R 6252(B,139,212)		RS1/16S104J
R 6253(B,134,209)		RS1/16S331J
R 6254(B,140,209)		RS1/16S331J
R 6255(B,136,192)		RS1/16S104J
R 6256(B,141,181)		RS1/16S104J
R 6257(B,136,188)		RS1/16S561J
R 6258(B,136,182)		RS1/16S561J
R 6259(B,132,196)		RS1/16S394J
R 6260(B,134,177)		RS1/16S394J
R 6261(B,124,196)		RS1/16S303J
R 6262(B,126,177)		RS1/16S303J
R 6263(B,122,196)		RS1/16S471J
R 6264(B,124,177)		RS1/16S471J
R 6265(B,117,191)		RS1/16S224J
R 6266(B,115,176)		RS1/16S224J
R 6267(B,46,190)		RS1/16S101J
R 6268(B,48,190)		RS1/16S101J
R 6269(B,84,195)		RS1/16S0R0J
R 6270(B,84,193)		RS1/16S0R0J
R 6271(B,102,191)		RS1/16S473J
R 6272(B,100,191)		RS1/16S473J
R 6273(B,97,191)		RS1/16S473J
R 6274(B,95,191)		RS1/16S473J
R 6282(B,112,203)		RS1/16S105J
R 6283(B,110,203)		RS1/16S105J
R 6286(B,38,172)		RS1/16S0R0J
R 6287(B,83,178)		RS1/16S0R0J
R 6299(B,36,198)		RS1/16S0R0J

CAPACITORS

C 6237(A,95,207)		CEAT100M50
C 6238(A,101,207)		CEAT100M50

Mark	No.	Description	Part No.
C	6243(A,53,207)	ELECT. CAPACITOR	CEAT470M25
C	6244(A,60,207)	ELECT. CAPACITOR	CEAT470M25
C	6245(A,39,207)	ELECT. CAPACITOR	CEAT470M25
C	6246(A,47,207)	ELECT. CAPACITOR	CEAT470M25
C	6247(A,26,205)	ELECT. CAPACITOR	CEAT470M25
C	6248(A,32,205)	ELECT. CAPACITOR	CEAT470M25
C	6251(A,134,201)		CEAT100M50
C	6252(A,140,201)		CEAT100M50
C	6255(A,139,189)		CEAT470M16
C	6256(A,139,181)		CEAT470M16
C	6259(B,130,196)		CKSRYB822K50
C	6260(B,132,177)		CKSRYB822K50
C	6261(B,128,196)		CKSRYB122K50
C	6262(B,130,177)		CKSRYB122K50
C	6263(A,120,194)		CEAT100M50
C	6264(A,118,174)		CEAT100M50
C	6265(A,122,180)		CEAT470M16
C	6266(A,122,188)		CEAT470M16
C	6267(B,51,189)		CCSRCH101J50
C	6268(B,53,189)		CCSRCH101J50
C	6269(B,67,182)		CKSRYB103K50
C	6270(B,69,182)		CKSRYB103K50
C	6279(B,130,222)		CKSRYB103K50
C	6283(B,132,222)		CKSRYB104K16
C	6284(B,91,224)		CKSRYB103K50
C	6285(B,64,223)		CKSRYB103K50
C	6286(B,35,224)		CKSRYB104K16
C	6291(B,134,222)		CKSRYB471K50
C	6292(B,33,224)		CKSRYB471K50
C	6293(B,126,196)		CKSRYB122K50
C	6294(B,128,177)		CKSRYB122K50
C	6295(A,78,180)		CEAT470M25
C	6296(A,73,172)		CEAT470M25
C	6403(B,21,206)		CKSRYB104K50
C	6404(B,21,208)		CKSRYB471K50
C	6405(B,17,217)		CKSRYB103K50
C	6406(B,13,217)		CKSRYB103K50

Mark	No.	Description	Part No.
R	6314(B,45,127)		RS1/16S473J
R	6315(B,52,128)		RS1/16S331J
R	6316(B,43,128)		RS1/16S331J
R	6319(B,62,127)		RS1/16S473J
R	6320(B,58,127)		RS1/16S473J
R	6321(B,65,128)		RS1/16S331J
R	6322(B,55,128)		RS1/16S331J
R	6325(B,75,127)		RS1/16S104J
R	6326(B,71,127)		RS1/16S104J
R	6327(B,78,128)		RS1/16S222J
R	6328(B,69,128)		RS1/16S222J
R	6329(B,75,134)		RS1/16S154J
R	6330(B,71,134)		RS1/16S154J
R	6331(B,88,127)		RS1/16S473J
R	6332(B,84,127)		RS1/16S473J
R	6333(B,91,128)		RS1/16S331J
R	6334(B,82,128)		RS1/16S331J
R	6337(B,101,127)		RS1/16S104J
R	6338(B,97,127)		RS1/16S104J
R	6339(B,104,128)		RS1/16S222J
R	6340(B,95,128)		RS1/16S222J
R	6341(B,101,134)		RS1/16S154J
R	6342(B,97,134)		RS1/16S154J
R	6343(B,113,133)		RS1/16S473J
R	6344(B,109,127)		RS1/16S473J
R	6345(B,113,135)		RS1/16S331J
R	6346(B,109,129)		RS1/16S331J
R	6351(B,13,131)		RS1/16S102J
R	6352(B,9,136)		RS1/16S102J
R	6353(B,18,149)		RS1/16S103J
R	6354(B,8,149)		RS1/16S103J
R	6355(B,16,156)		RS1/16S102J
R	6356(B,11,158)		RS1/16S102J
R	6361(B,73,152)		RS1/16S101J
R	6362(B,69,152)		RS1/16S101J
R	6381(B,38,148)		RS1/16S473J
R	6382(B,40,147)		RS1/16S473J
R	6383(B,35,165)		RS1/16S0R0J

B V-AUDIO ASSY

MISCELLANEOUS

IC	6301(B,50,143)	AUDIO IC	BD3841FS
Q	6301(B,13,143)	TRANSISTOR	IMX25
JA	6301(A,26,107)	PIN JACK(6P)	AKB7174
CN	6301(A,121,144)	CONNECTOR(06P)	TUC-P06X-B1
CN	6302(A,38,163)	23P SOCKET	XKP3082
CN	6307(A,61,107)	PIN JACK(4P)	AKB7172
CN	6308(A,89,107)	PIN JACK(4P)	AKB7172
CN	6309(A,117,107)	PIN JACK(4P)	AKB7172

RESISTORS

R	6301(B,23,127)		RS1/16S473J
R	6302(B,19,127)		RS1/16S473J
R	6303(B,26,128)		RS1/16S331J
R	6304(B,17,128)		RS1/16S331J
R	6307(B,36,127)		RS1/16S473J
R	6308(B,32,127)		RS1/16S473J
R	6309(B,39,128)		RS1/16S331J
R	6310(B,30,128)		RS1/16S331J
R	6313(B,49,127)		RS1/16S473J

CAPACITORS

C	6329(A,77,137)		CEAT100M50
C	6330(A,70,137)		CEAT100M50
C	6341(A,103,137)		CEAT100M50
C	6342(A,96,137)		CEAT100M50
C	6349(B,33,114)		CKSRYB104K16
C	6350(B,61,114)		CKSRYB104K16
C	6351(B,89,114)		CKSRYB104K16
C	6359(B,60,149)		CCSRCH101J50
C	6360(B,62,149)		CCSRCH101J50
C	6361(B,56,151)		CKSRYB103K50
C	6362(B,52,151)		CKSRYB103K50
C	6363(A,79,162)		CEAT470M25
C	6364(A,73,157)		CEAT470M25
C	6368(B,19,114)		CKSRYB103K50
C	6369(B,22,111)		CKSRYB103K50
C	6377(A,62,156)	ELECT. CAPACITOR	CEAT470M25
C	6378(A,56,156)	ELECT. CAPACITOR	CEAT470M25
C	6379(B,35,114)		CKSRYB471K50
C	6380(B,63,114)		CKSRYB471K50

Mark	No.	Description	Part No.
C	6381(B,91,114)		CKSRYB471K50

C FRONT-IN ASSY

MISCELLANEOUS

IC	3451(B,50,39)	OP-AMP IC	BA4560RF
Q	3451(B,103,33)	CHIP TRANSISTOR	HN1C01FU
D	3451(B,72,45)	DIODE	UDZS5R1(B)
D	3452(B,70,45)	DIODE	UDZS5R1(B)
D	3453(B,34,27)	DIODE	UDZS5R1(B)
D	3454(B,47,24)	DIODE	DAN217U
D	3455(B,128,27)	DIODE	DAN217U
D	3467(B,42,42)	DIODE	DAN217U
D	3502(B,14,45)	ZENER DIODE	UMZU6.2N
D	3504(B,8,36)	ZENER DIODE	UMZU6.2N
L	3453(B,57,28)	CHIP SOLID INDUCTOR	QTL1013
L	3465	INDUCTOR	CTF1385
JA	3451(A,32,11)	JACK	RKN1004
JA	3452(A,117,15)	FRONT AV INPUT	AKX7019
JA	3501(A,14,10)	USB CONNECTOR	XKP3086
KN	3451(A,36,39)	WRAPPING TERMINAL	VNF1084
KN	3452(A,123,39)	WRAPPING TERMINAL	VNF1084
CN	3451(A,118,53)	CONNECTOR	CKS3380
CN	3501(A,11,39)	PLUG(5P)	KM200NA5
	3501(A,22,32)	PCB BINDER	VEF1040

RESISTORS

R	3451(B,37,21)	RS1/16S682J
R	3452(B,38,18)	RS1/16S104J
R	3453(B,39,25)	RS1/16S101J
R	3454(B,42,26)	RS1/16S104J
R	3455(B,48,32)	RS1/16S333J
R	3456(B,46,31)	RS1/16S432J
R	3457(B,48,46)	RS1/16S432J
R	3458(B,52,46)	RS1/16S333J
R	3459(B,55,46)	RS1/16S101J
R	3460(B,29,26)	RS1/16S102J
R	3461(B,68,48)	RS1/16S104J
R	3462(B,63,26)	RS1/16S101J
R	3463(B,36,27)	RS1/16S102J
R	3469(B,105,62)	RS1/16S0R0J
R	3470(B,111,51)	RS1/16S0R0J
R	3471(B,73,28)	RS1/16S750J
R	3472(B,73,31)	RS1/16S0R0J
R	3473(B,78,26)	RS1/16S750J
R	3474(B,76,28)	RS1/16S0R0J
R	3475(B,85,26)	RS1/16S750J
R	3476(B,87,28)	RS1/16S0R0J
R	3477(B,102,63)	RS1/16S0R0J
R	3480(B,45,35)	RS1/16S101J
R	3481(B,97,23)	RS1/16S104J
R	3482(B,125,23)	RS1/16S104J
R	3483(B,95,27)	RS1/16S221J
R	3484(B,121,27)	RS1/16S221J
R	3485(B,95,31)	RS1/16S104J
R	3486(B,113,24)	RS1/16S104J
R	3487(B,93,36)	RS1/16S221J
R	3488(B,113,28)	RS1/16S221J
R	3489(B,113,51)	RS1/16S101J
R	3490(B,118,50)	RS1/16S101J
R	3491(B,108,38)	RS1/16S153J
R	3492(B,110,38)	RS1/16S153J
R	3493(B,106,38)	RS1/16S470J
R	3494(B,117,46)	RS1/16S470J
R	3495(B,108,24)	RS1/16S0R0J
R	3496(B,121,23)	RS1/16S0R0J
R	3497(B,98,26)	RS1/16S0R0J
R	3498(B,114,36)	RS1/16S0R0J
R	3499(B,116,36)	RS1/16S0R0J
R	3501(B,12,31)	RS1/16S0R0J
R	3502(B,14,31)	RS1/16S0R0J
R	3503(B,6,31)	RS1/16S0R0J
R	3504(B,11,26)	RS1/16S0R0J
R	3505(B,18,44)	RS1/16S0R0J
R	3506(B,20,36)	RS1/16S0R0J
R	3507(B,26,33)	RS1/16S0R0J
R	3508(B,20,39)	RS1/16S0R0J
R	3509(B,20,46)	RS1/16S0R0J
R	3510(B,7,39)	RS1/16S222J
R	3511(B,17,48)	RS1/16S0R0J
R	3512(B,17,37)	RS1/16S0R0J

CAPACITORS

C	3451(B,36,18)		CKSRYB471K50
C	3452(B,41,21)		CKSQYB106K6R3
C	3453(B,42,24)		CCSRCH101J50
C	3454(B,50,32)		CCSRCH220J50
C	3455(B,50,46)		CCSRCH220J50
C	3457(A,29,30)		CEJQ100M16
C	3459(B,55,41)		CKSRYB103K50
C	3460(B,55,36)		CKSRYB103K50
C	3461(A,58,42)		CEAT100M50
C	3462(A,58,35)		CEAT100M50
C	3463(B,47,49)		CKSRYB105K6R3
C	3466(B,39,42)		CKSRYB104K16
C	3467(B,57,26)		CKSRYB104K16
C	3470(A,63,45)		CEAT100M50
C	3471(B,71,28)		CKSRYB104K16
C	3475(B,125,31)		CKSRYB104K16
C	3476(B,125,35)		CKSRYB103K50
C	3478(B,127,35)		CKSRYB472K50
C	3481(B,99,23)		CCSRCH221J50
C	3482(B,123,23)		CCSRCH221J50
C	3483(A,92,32)		CEAT100M50
C	3484(A,116,31)		CEAT100M50
C	3485(B,95,36)		CCSRCH101J50
C	3486(B,111,26)		CCSRCH101J50
C	3489(B,107,32)		CKSRYB103K50
C	3490(B,112,38)		CKSRYB103K50
C	3491(A,110,34)	ELECT. CAPACITOR	CEAT330M25
C	3492(A,112,43)	ELECT. CAPACITOR	CEAT330M25
C	3495(B,125,27)		CKSRYB103K50
C	3496(B,95,23)		CKSRYB103K50
C	3497(B,65,48)		CKSRYB104K16
C	3498(B,63,48)		CKSRYB103K50
C	3499(B,60,49)		CKSRYB102K50
C	3503(B,8,31)		CKSRYB104K16

Mark	No.	Description	Part No.

D HEADPHONE ASSY

MISCELLANEOUS

A	KN	3551(A,125,118) WRAPPING TERMINAL	VNF1084
	CN	3551(A,134,114) 4P JUMPER CONNECTOR	52147-0410
		3551(A,125,73) PHONE JACK	AKN7029

RESISTORS

	R	3551(B,130,85)	RS1/16S102J
	R	3552(B,133,111)	RS1/16S0R0J

CAPACITORS

	C	3551(B,134,98)	CKSRYB392K50
B	C	3552(B,120,88)	CKSRYB392K50
	C	3553(B,120,93)	CKSRYB471K50
	C	3554(B,118,93)	CKSRYB103K50
	C	3555(B,116,93)	CKSRYB104K16

E BRIDGE 1 ASSY

MISCELLANEOUS

	CN	5431(A,152,224) 13P PLUG	XKP3066
	CN	5432(A,165,176) 13P PLUG	XKP3066
	CN	5433(A,191,225) CONNECTOR	CKS1726
	CN	5434(A,170,175) CONNECTOR	CKS1726

C

F BRIDGE 2 ASSY

MISCELLANEOUS

	CN	5441(A,200,98) CONNECTOR	CKS3382
	CN	5442(A,215,117) 15P PLUG	XKP3067
	CN	5443(A,239,119) 17P PLUG	XKP3068

G TRANS SIDE ASSY

MISCELLANEOUS

D	L	4401(B,307,6) INDUCTOR	CTF1385
	L	4402(B,307,8) INDUCTOR	CTF1385
	L	4403(B,307,10) INDUCTOR	CTF1385
	L	4404(B,307,14) INDUCTOR	CTF1385
	L	4405(B,307,16) INDUCTOR	CTF1385
	L	4406(B,307,18) INDUCTOR	CTF1385
	L	4407(B,307,20) INDUCTOR	CTF1385
	L	4408(B,307,22) INDUCTOR	CTF1385
	L	4409(B,307,24) INDUCTOR	CTF1385
	L	4410(B,307,26) INDUCTOR	CTF1385
E	L	4411(B,307,28) INDUCTOR	CTF1385
	L	4412(B,307,30) INDUCTOR	CTF1385
	L	4413(B,307,32) INDUCTOR	CTF1385
	J	5 JUMPER WIRE	D20PDY0410E
	CN	4402(A,319,21) L-PLUG(13P)	KM200NA13L
	CN	4403(A,83,30) CONNECTOR	CKS3382
		4401(A,61,9) 4P CABLE HOLDER	51048-0400

H BRIDGE 3 ASSY

MISCELLANEOUS

F	CN	5451(A,169,100) 15P CONNECTOR	52044-1545
	CN	5452(A,140,100) 19P CONNECTOR	52044-1945
	CN	5453(A,135,134) 23P PLUG	XKP3071
	CN	5454(A,126,166) 23P PLUG	XKP3071
	CN	5455(A,169,166) 15P PLUG	XKP3067

RESISTORS

	R	5451(B,148,161)	RS1/16S0R0J
	R	5452(B,146,159)	RS1/16S0R0J
	R	5453(B,143,161)	RS1/16S0R0J
	R	5454(B,141,159)	RS1/16S0R0J
	R	5455(B,138,161)	RS1/16S0R0J
	R	5456(B,184,161)	RS1/16S0R0J
	R	5457(B,179,161)	RS1/16S0R0J
	R	5458(B,176,159)	RS1/16S0R0J
	R	5459(B,174,161)	RS1/16S0R0J
	R	5460(B,171,159)	RS1/16S0R0J

CAPACITORS

	C	5451(B,160,106)	CKSRYB104K16
	C	5452(B,164,106)	CKSRYB104K16

I COMPOSITE V ASSY

MISCELLANEOUS

	IC	2001(A,134,86) LOGIC IC	TC74HC4051AFT
	IC	2002(A,136,69) LOGIC IC	TC74HC4051AFT
	IC	2003(A,153,86) LOGIC IC	TC74HC4052AFT
	IC	2004(A,149,69) LOGIC IC	TC74HC4052AFT
	IC	2007(A,142,50) CHARACTER GENERATOR	PDC162A
	IC	2008(A,154,102) LOGIC IC	TC4094BFN
	IC	2009(A,156,113) LOGIC IC	TC4094BFN
	IC	2010(A,132,109) VIDEO AMP IC	LA7109
	Q	2001(A,154,47) TRANSISTOR	2SC4154
	Q	2081(A,159,32) TRANSISTOR	2SC4154
	D	2001(A,142,31) DIODE	MC2846-11
	D	2002(A,161,49) DIODE	MC2846-11
	D	2003(A,162,55) DIODE	MC2846-11
	L	2001(A,128,43) AXIAL INDUCTOR	LAU330J
	JA	2005(A,104,130) PIN JACK(1P)	AKB7175
	X	2001(A,129,55) CRYSTAL RESONATOR	ASS7080
	CN	2001(A,135,24) 19P SOCKET	XKP3080
	CN	2002(A,160,123) 17P SOCKET	XKP3079
		2003(A,104,53) PIN JACK(2P)	AKB7176
		2002(A,104,81) PIN JACK(2P)	AKB7176
		2001(A,104,109) PIN JACK(2P)	AKB7176
		2004(A,104,25) PIN JACK(2P)	AKB7176

RESISTORS

	R	2001(B,113,117)	RS1/16S750J
	R	2002(B,113,103)	RS1/16S750J
	R	2003(B,113,89)	RS1/16S750J
	R	2004(B,113,75)	RS1/16S750J
	R	2005(B,113,47)	RS1/16S750J
	R	2006(B,113,19)	RS1/16S750J
	R	2010(B,138,105)	RS1/16S103J
	R	2012(B,138,114)	RS1/16S103J
	R	2013(B,138,117)	RS1/16S103J
	R	2014(B,138,101)	RS1/16S103J
	R	2015(B,138,111)	RS1/16S103J
	R	2019(A,124,112)	RS1/16S750J
	R	2020(A,122,101)	RS1/16S750J
	R	2021(A,122,106)	RS1/16S750J
	R	2022(A,126,121)	RS1/16S0R0J

Mark	No.	Description	Part No.
R	2025(A,147,98)		RS1/16S473J
R	2026(A,128,84)		RS1/16S473J
R	2027(A,130,84)		RS1/16S473J
R	2028(B,138,63)		RS1/16S473J
R	2029(B,138,67)		RS1/16S473J
R	2030(B,138,65)		RS1/16S473J
R	2034(A,138,92)		RS1/16S473J
R	2035(A,122,109)		RS1/16S473J
R	2040(A,133,33)		RS1/16S331J
R	2041(A,132,36)		RS1/16S331J
R	2042(A,134,36)		RS1/16S331J
R	2043(A,151,43)		RS1/16S512J
R	2044(A,154,43)		RS1/16S392J
R	2045(A,153,49)		RS1/16S103J
R	2047(A,150,54)		RS1/16S102J
R	2060(A,152,32)		RS1/16S0R0J
R	2065(A,128,125)		RS1/16S0R0J
R	2070(A,149,120)		RS1/16S0R0J
R	2071(A,147,120)		RS1/16S0R0J
R	2072(B,113,115)		RS1/16S0R0J
R	2082(A,151,30)		RS1/16S0R0J
R	2084(A,162,32)		RS1/16S103J
R	2085(A,156,30)		RS1/16S472J
R	2086(A,147,111)		RS1/16S103J
R	2087(B,128,116)		RS1/16S103J

CAPACITORS

C	2001(A,138,83)		CKSRYB103K50
C	2002(A,130,90)		CKSRYB103K50
C	2003(A,141,67)		CKSRYB103K50
C	2004(A,132,73)		CKSRYB103K50
C	2005(A,157,84)		CKSRYB103K50
C	2006(A,149,90)		CKSRYB103K50
C	2007(A,154,66)		CKSRYB103K50
C	2008(A,145,72)		CKSRYB103K50
C	2010(A,144,102)		CEAT101M10
C	2012(A,144,108)		CEAT101M10
C	2013(A,144,114)		CEAT101M10
C	2015(A,128,97)		CEAT101M10
C	2016(A,136,98)		CEAT101M10
C	2017(A,128,100)		CKSRYB104K16
C	2018(B,138,95)		CKSRYB104K16
C	2019(A,124,111)		CCSRCH181J50
C	2020(A,122,103)		CCSRCH181J50
C	2021(A,122,104)		CCSRCH181J50
C	2025(B,150,100)		CKSRYB103K50
C	2026(B,149,111)		CKSRYB103K50
C	2031		CKSRYB102K50
C	2032		CKSRYB102K50
C	2040(A,149,38)		CEAT101M10
C	2041(A,140,38)		CEAT101M10
C	2042(A,144,60)		CKSRYB473K25
C	2043(A,138,40)		CKSRYB473K25
C	2044(B,138,59)		CCSRCH6R0D50
C	2045(B,138,57)		CCSRCH6R0D50
C	2046(B,138,44)		CCSRCH240J50
C	2047(B,138,42)		CCSRCH240J50
C	2048(A,130,33)		CCSRCH101J50
C	2049(A,130,37)		CCSRCH101J50
C	2050(A,130,34)		CCSRCH101J50
C	2052(A,151,45)		CKSRYB103K50
C	2053(A,153,57)		CEAT101M10
C	2054(A,150,45)		CKSRYB122K50
C	2055(B,147,46)		CKSRYB122K50
C	2056(A,150,52)		CCSRCH101J50
C	2083(A,160,42)		CEAT101M10
C	2084(A,157,36)		CKSRYB103K50
C	2085(A,156,32)		CKSRYB103K50
C	2088(A,158,60)		CKSRYB103K50
C	2091(B,113,111)		CKSRYB103K50
C	2092(B,113,83)		CKSRYB103K50
C	2093(B,113,55)		CKSRYB103K50
C	2094(B,114,126)		CKSRYB473K25

J S VIDEO ASSY

MISCELLANEOUS

IC	2201(A,43,65)	LOGIC IC	TC74HC4051AFT
IC	2202(A,57,67)	LOGIC IC	TC74HC4051AFT
IC	2203(A,61,89)	LOGIC IC	TC74HC4052AFT
IC	2204(A,36,96)	VIDEO AMP IC	LA7109
IC	2205(A,43,45)	LOGIC IC	TC74HC4051AFT
IC	2206(A,57,45)	LOGIC IC	TC74HC4051AFT
IC	2207(A,35,116)	IC	NJM12904V
IC	2210(A,46,116)	LOGIC IC	TC4094BFN
IC	2211(A,66,114)	LOGIC IC	TC4094BFN
Q	2201(A,30,122)	TRANSISTOR	RT1N241M
Q	2202(B,71,56)	TRANSISTOR	2SC4154
Q	2203(B,64,47)	TRANSISTOR	2SC4154
D	2201(A,31,114)	DIODE	1SS352
D	2202(A,57,117)	DIODE	MC2846-11
JA	2201(A,12,130)	PIN JACK(1P)	AKB7175
JA	2202(A,12,88)	SOCKET	XKB3052
JA	2203(A,12,53)	SOCKET	XKB3051
JA	2204(A,12,25)	SOCKET	XKB3051
CN	2201(A,67,24)	17P SOCKET	XKP3079
CN	2202(A,49,123)	15P SOCKET	XKP3078

RESISTORS

R	2201(B,23,87)		RS1/16S750J
R	2202(B,23,88)		RS1/16S750J
R	2203(B,23,73)		RS1/16S750J
R	2204(B,23,74)		RS1/16S750J
R	2205(B,23,45)		RS1/16S750J
R	2206(B,23,46)		RS1/16S750J
R	2207(B,23,17)		RS1/16S750J
R	2208(B,23,18)		RS1/16S750J
R	2221(A,42,88)		RS1/16S103J
R	2222(A,48,93)		RS1/16S103J
R	2224(B,48,95)		RS1/16S103J
R	2225(A,44,102)		RS1/16S103J
R	2227(A,29,96)		RS1/16S750J
R	2228(A,28,100)		RS1/16S750J
R	2233(B,27,57)		RS1/16S750J
R	2234(B,27,62)		RS1/16S750J
R	2239(B,29,29)		RS1/16S750J
R	2240(B,27,34)		RS1/16S750J
R	2245(A,36,111)		RS1/16S103J
R	2246(A,32,114)		RS1/16S471J

Mark	No.	Description	Part No.
	R 2247(A,31,118)		RS1/16S274J
	R 2261(B,29,130)		RS1/16S750J
	R 2265(A,52,115)		RS1/16S473J
	R 2266(A,52,116)		RS1/16S473J
	R 2267(A,52,118)		RS1/16S473J
	R 2268(A,41,112)		RS1/16S473J
	R 2269(B,63,103)		RS1/16S473J
	R 2270(A,72,113)		RS1/16S473J
	R 2271(A,72,114)		RS1/16S473J
	R 2272(A,71,117)		RS1/16S473J
	R 2277(B,53,115)		RS1/16S0R0J
	R 2278(B,57,115)		RS1/16S0R0J
	R 2279(B,44,24)		RS1/16S0R0J
	R 2280(B,44,26)		RS1/16S0R0J
	R 2282(B,71,48)		RS1/16S472J
	R 2283(A,60,118)		RS1/16S103J
	R 2296(B,72,64)		RS1/16S103J
	R 2297(B,72,51)		RS1/16S472J
	R 2299(B,69,48)		RS1/16S103J

CAPACITORS

C 2202(B,27,90)		CKSRYB104K16
C 2204(B,27,77)		CKSRYB104K16
C 2206(B,27,48)		CKSRYB104K16
C 2208(B,28,25)		CKSRYB104K16
C 2211(A,46,63)		CKSRYB104K16
C 2212(A,39,69)		CKSRYB104K16
C 2213(A,61,64)		CKSRYB104K16
C 2214(A,53,70)		CKSRYB104K16
C 2215(A,46,41)		CKSRYB104K16
C 2216(A,39,48)		CKSRYB104K16
C 2217(A,60,42)		CKSRYB104K16
C 2218(A,53,48)		CKSRYB104K16
C 2219(A,58,85)		CKSRYB103K50
C 2220(A,64,92)		CKSRYB103K50
C 2221(A,50,88)		CEAT101M10
C 2222(A,51,93)		CKSRYB104K16
C 2224(A,50,98)		CEAT101M10
C 2225(A,45,102)		CKSRYB104K16
C 2227(A,27,96)		CCSRCH181J50
C 2228(A,30,99)		CCSRCH181J50
C 2229(A,28,101)		CKSRYB104K16
C 2230(B,21,95)		CKSRYB103K50
C 2233(B,23,59)		CCSRCH181J50
C 2234(B,23,60)		CCSRCH181J50
C 2235(B,27,64)		CKSRYB104K16
C 2236(B,21,53)		CKSRYB103K50
C 2239(B,23,31)		CCSRCH181J50
C 2240(B,23,32)		CCSRCH181J50
C 2241(B,27,36)		CKSRYB104K16
C 2242(B,21,26)		CKSRYB103K50
C 2245(A,36,109)		CKSRYB104K16
C 2246(A,26,115)		CEAT100M50
C 2247(A,32,118)		CKSRYB103K50
C 2251		CKSRYB102K50
C 2252		CKSRYB102K50
C 2259(B,25,130)		CCSRCH181J50
C 2261(B,21,130)		CKSRYB103K50
C 2265(A,44,109)		CKSRYB103K50
C 2266(A,65,107)		CKSRYB103K50
C 2279(A,50,29)		CEAT101M16
C 2280(A,44,29)		CEAT101M16
C 2285(A,44,83)		CEAT101M10
C 2286(A,36,81)		CEAT101M10
C 2287(A,35,86)		CKSRYB104K16
C 2288(A,36,106)		CKSRYB104K16
C 2291(B,68,56)		CKSRYB103K50
C 2292(B,68,52)		CKSRYB103K50
C 2293(B,61,42)		CKSRYB103K50
C 2294(B,67,52)		CKSRYB103K50
C 2296(A,69,63)		CEAL220M10
C 2297(B,67,45)		CKSRYB104K16

K COMPONENT & VOL ASSY

MISCELLANEOUS

IC 2401(A,65,45)	MULTIPLEXER(4CH*2)	TC74LVX4052FT
IC 2402(A,44,45)	MULTIPLEXER(4CH*2)	TC74LVX4052FT
IC 2404(A,73,64)	MULTIPLEXER(2CH*3)	TC74LVX4053FT
IC 2405(B,44,66)	VIDEO IC	NJM2581M
IC 2407(B,71,118)	LOGIC IC	TC4094BFN
IC 2408(A,75,139)	IC	TC74VHCT08AFTS1
IC 2409(A,57,32)	IC	NJM12904V
IC 2410(A,77,117)	IC	TC7SH08FUS1
IC 2501(A,159,110)	OP-AMP IC	UPC4570G2
IC 2525(A,197,110)	OP-AMP IC	UPC4570G2
IC 2551(A,178,110)	OP-AMP IC	UPC4570G2
IC 2575(A,216,110)	OP-AMP IC	UPC4570G2
IC 2630(B,159,40)	IC	TC4066BFN
IC 2631(A,135,61)	IC	TC4053BFN
IC 2632(A,145,38)	OP-AMP IC	BA4560RF
IC 2633(A,154,61)	OP-AMP IC	BA4560RF
IC 2634(A,147,61)	OP-AMP IC	BA4560RF
IC 2635(A,174,61)	IC	TC4052BFN
IC 2636(A,201,68)	8CH E-VOL	R2S15205FP
IC 2637(A,145,85)	2CH E-VOL	M61545FP
IC 2640(A,134,147)	LOGIC IC	TC4094BFN
Q 2401(A,76,28)	TRANSISTOR(SC-70)	2SA1602A
Q 2402(A,73,28)	TRANSISTOR(SC-70)	2SA1602A
Q 2403(A,86,27)	TRANSISTOR(SC-70)	2SA1602A
Q 2404(A,92,31)	TRANSISTOR(SC-70)	2SA1602A
Q 2405(A,83,27)	TRANSISTOR(SC-70)	2SA1602A
Q 2406(A,92,28)	TRANSISTOR(SC-70)	2SA1602A
⚠ Q 2407(B,48,33)	TRANSISTOR	2SC4154
⚠ Q 2408(B,43,28)	TRANSISTOR(SC-70)	2SA1602A
Q 2420(A,65,31)	TRANSISTOR	RT1N241M
Q 2630(B,114,26)	TRANSISTOR	RT1N241M
Q 2631(A,164,44)	TRANSISTOR	RT1N241M
Q 2632(B,118,26)	TRANSISTOR	RT1N241M
Q 2633(B,111,32)	TRANSISTOR	RT1N241M
Q 2639(B,108,149)	DIGITAL TR(SC-70)	RT1P241M
Q 2640(B,115,148)	DIGITAL TR(SC-70)	RT1P241M
⚠ Q 2641(A,194,30)	TRANSISTOR	2SD1858X
⚠ Q 2642(A,178,30)	TRANSISTOR	2SB1238X
Q 2645(A,168,46)	DIGITAL TR(SC-70)	RT1P241M
Q 2771(B,44,149)	TRANSISTOR	2SD1664
D 2401(B,56,24)	DIODE	1SS352
D 2402(B,48,24)	DIODE	1SS352

Mark	No.	Description	Part No.
D	2403(A,58,28)	DIODE	1SS352
D	2504(A,129,38)	DIODE	DAN217
D	2505(A,134,38)	DIODE	DAN217
D	2517(B,188,22)	DIODE	UDZS7R5(B)
D	2518(B,183,22)	DIODE	UDZS7R5(B)
D	2519(B,156,150)	DIODE	1SS352
D	2613(B,192,56)	DIODE	DAN217
D	2753(B,33,135)	CHIP DIODE	RB501V-40
D	2754(B,33,133)	CHIP DIODE	RB501V-40
D	2755(B,30,108)	DIODE	1SS352
D	2772(B,49,146)	DIODE	UDZS10(B)
L	2752(B,34,137)	CHIP SOLID INDUCTOR	QTL1013
L	2754(B,32,128)	CHIP SOLID INDUCTOR	QTL1013
L	2756(B,32,121)	CHIP SOLID INDUCTOR	QTL1013
L	2760(B,28,141)	INDUCTOR	CTF1385
L	2762(B,33,93)	CHIP SOLID INDUCTOR	QTL1013
L	2763(B,31,114)	CHIP SOLID INDUCTOR	QTL1013
L	2764(B,31,112)	CHIP SOLID INDUCTOR	QTL1013
L	2765(B,33,105)	CHIP SOLID INDUCTOR	QTL1013
L	2766(B,33,103)	CHIP SOLID INDUCTOR	QTL1013
L	2767(B,32,98)	INDUCTOR	CTF1385
JA	2401(A,15,68)	6P RCA PINJACK	XKB3053
JA	2402(A,15,26)	6P RCA PINJACK	XKB3053
JA	2702(A,15,125)	JACK	AKN-209
JA	2703(A,17,138)	JACK	RKN1004
JA	2704(A,17,93)	JACK	RKN1004
JA	2705(A,15,103)	MINI JACK(4P) /W SW	XKN3015
KN	2701(A,15,147)	SCREW PLATE	VNE1948
CN	2402(A,49,14)	CONNECTOR(07P)	TUC-P07X-B1
CN	2403(A,90,18)	17P SOCKET	XKP3079
CN	2409(A,51,78)	CONNECTOR	CKS3382
CN	2501(A,191,14)	PLUG	CKS1758
CN	2502(A,109,47)	CONNECTOR	CKS3380
CN	2503(A,153,14)	PLUG	CKS1764
CN	2504(A,173,143)	13P SOCKET	XKP3077
CN	2505(A,102,14)	PLUG	CKS1758
CN	2506(A,226,18)	11P SOCKET	XKP3076
CN	2507(A,212,146)	PLUG	CKS1760
CN	2601(A,116,107)	CONNECTOR	CKS3384
CN	2602(A,109,99)	CONNECTOR	CKS3389
CN	2603(A,109,70)	CONNECTOR	CKS3384
CN	2702(A,69,151)	CONNECTOR	CKS3376
CN	2703(A,77,148)	07P CONNECTOR	RKN1048
	2701(A,97,143)	PCB BINDER	VEF1040
	2702(A,86,150)	PCB BINDER	VEF1040

RESISTORS

R	2401(B,33,84)		RS1/16S750J
R	2402(B,33,69)		RS1/16S750J
R	2403(B,33,54)		RS1/16S750J
R	2404(B,33,42)		RS1/16S750J
R	2405(B,33,28)		RS1/16S750J
R	2406(B,33,18)		RS1/16S750J
R	2407(B,33,38)		RS1/16S750J
R	2408(B,33,25)		RS1/16S750J
R	2409(B,25,11)		RS1/16S750J
R	2410(A,76,31)		RS1/16S102J
R	2411(A,73,31)		RS1/16S184J
R	2412(A,80,31)		RS1/16S184J
R	2413(B,80,32)		RS1/16S0R0J
R	2414(B,84,37)		RS1/16S0R0J
R	2415(A,71,26)		RS1/16S114J
R	2416(B,81,24)		RS1/16S0R0J
R	2417(A,81,27)		RS1/16S114J
R	2418(A,84,31)		RS1/16S102J
R	2419(A,89,30)		RS1/16S102J
R	2420(A,86,30)		RS1/16S184J
R	2421(B,90,37)		RS1/16S0R0J
R	2422(B,88,25)		RS1/16S0R0J
R	2423(A,91,26)		RS1/16S114J
R	2424(B,92,22)		RS1/16S0R0J
R	2435(A,73,127)		RS1/16S101J
R	2437(A,74,127)		RS1/16S101J
R	2439(B,34,77)		RS1/16S750J
R	2440(B,33,63)		RS1/16S750J
R	2441(B,33,49)		RS1/16S750J
R	2443(B,82,119)		RS1/16S473J
R	2444(B,82,117)		RS1/16S473J
R	2445(A,62,118)		RS1/16S473J
R	2446(B,55,111)		RS1/16S473J
R	2447(A,65,123)		RS1/16S473J
R	2448(A,63,123)		RS1/16S473J
R	2449(B,55,113)		RS1/16S473J
R	2451(B,48,30)		RS1/16S153J
R	2452(B,43,25)		RS1/16S153J
R	2453(A,49,33)		RS1/16S333J
R	2454(A,44,27)		RS1/16S333J
R	2477(B,65,32)		RS1/16S103J
R	2478(B,58,28)		RS1/16S471J
R	2479(A,65,28)		RS1/16S274J
R	2480(A,65,34)		RS1/16S0R0J
R	2490(B,78,139)		RS1/16S0R0J
R	2491(B,77,139)		RS1/16S0R0J
R	2502(A,142,101)		RS1/16S0R0J
R	2509(B,161,98)		RS1/16S223J
R	2510(B,157,98)		RS1/16S223J
R	2513(A,165,109)		RS1/16S682J
R	2514(A,153,109)		RS1/16S682J
R	2515(B,163,108)		RS1/16S122J
R	2516(B,155,108)		RS1/16S122J
R	2517(B,162,110)		RS1/16S0R0J
R	2518(B,156,110)		RS1/16S0R0J
R	2519(A,165,111)		RS1/16S183J
R	2520(A,154,111)		RS1/16S183J
R	2521(B,164,112)		RS1/16S0R0J
R	2522(B,155,112)		RS1/16S0R0J
R	2523(B,164,118)		RS1/16S104J
R	2524(B,154,118)		RS1/16S104J
R	2533(B,199,98)		RS1/16S223J
R	2534(B,195,98)		RS1/16S223J
R	2537(A,203,109)		RS1/16S682J
R	2538(A,191,109)		RS1/16S682J
R	2539(B,201,108)		RS1/16S122J
R	2540(B,193,108)		RS1/16S122J
R	2541(B,200,110)		RS1/16S0R0J
R	2542(B,194,110)		RS1/16S0R0J
R	2543(A,203,111)		RS1/16S183J
R	2544(A,192,111)		RS1/16S183J
R	2545(B,202,112)		RS1/16S0R0J

Mark	No.	Description	Part No.
R	2546(B,193,112)		RS1/16S0R0J
R	2547(B,202,118)		RS1/16S104J
R	2548(B,192,118)		RS1/16S104J
R	2559(B,180,98)		RS1/16S223J
R	2560(B,176,98)		RS1/16S223J
R	2563(A,184,109)		RS1/16S682J
R	2564(A,172,109)		RS1/16S682J
R	2565(B,182,108)		RS1/16S122J
R	2566(B,174,108)		RS1/16S122J
R	2567(B,181,110)		RS1/16S0R0J
R	2568(B,175,110)		RS1/16S0R0J
R	2569(A,184,111)		RS1/16S183J
R	2570(A,173,111)		RS1/16S183J
R	2571(B,183,112)		RS1/16S0R0J
R	2572(B,174,112)		RS1/16S0R0J
R	2573(B,183,118)		RS1/16S104J
R	2574(B,173,118)		RS1/16S104J
R	2583(B,218,98)		RS1/16S223J
R	2584(B,214,98)		RS1/16S223J
R	2587(A,222,109)		RS1/16S682J
R	2588(A,210,109)		RS1/16S682J
R	2589(B,220,108)		RS1/16S122J
R	2590(B,212,108)		RS1/16S122J
R	2591(B,219,110)		RS1/16S0R0J
R	2592(B,213,110)		RS1/16S0R0J
R	2593(A,222,111)		RS1/16S183J
R	2594(A,211,111)		RS1/16S183J
R	2595(B,221,112)		RS1/16S0R0J
R	2596(B,212,112)		RS1/16S0R0J
R	2597(B,221,118)		RS1/16S104J
R	2598(B,211,118)		RS1/16S104J
R	2601(B,108,138)		RS1/16S473J
R	2625(A,147,31)		RS1/16S242J
R	2626(A,148,45)		RS1/16S242J
R	2627(A,152,36)		RS1/16S101J
R	2628(A,153,43)		RS1/16S101J
R	2629(A,148,33)		RS1/16S272J
R	2630(A,149,43)		RS1/16S272J
R	2631(A,145,33)		RS1/16S0R0J
R	2632(A,146,43)		RS1/16S0R0J
R	2633(A,142,33)		RS1/16S222J
R	2634(A,143,43)		RS1/16S222J
R	2635(A,141,31)		RS1/16S101J
R	2636(A,142,45)		RS1/16S101J
R	2637(B,137,35)		RS1/16S473J
R	2638(B,137,40)		RS1/16S473J
R	2641(A,154,67)		RS1/16S472J
R	2642(A,154,56)		RS1/16S472J
R	2643(A,157,67)		RS1/16S101J
R	2644(A,157,56)		RS1/16S101J
R	2645(A,144,67)		RS1/16S113J
R	2646(A,144,56)		RS1/16S113J
R	2647(A,142,68)		RS1/16S0R0J
R	2648(A,142,55)		RS1/16S0R0J
R	2649(A,144,68)		RS1/16S153J
R	2650(A,144,54)		RS1/16S153J
R	2651(A,147,67)		RS1/16S113J
R	2652(A,147,56)		RS1/16S113J
R	2653(A,151,67)		RS1/16S472J
R	2654(A,151,56)		RS1/16S472J
R	2655(B,163,64)		RS1/16S474J
R	2656(B,163,58)		RS1/16S474J
R	2663(A,191,53)		RS1/16S102J
R	2664(A,191,55)		RS1/16S102J
R	2670(B,161,85)		RS1/16S0R0J
R	2673(B,205,33)		RS1/16S0R0J
R	2681(B,135,89)		RS1/16S104J
R	2682(B,135,85)		RS1/16S104J
R	2683(A,141,95)		RS1/16S102J
R	2684(A,141,94)		RS1/16S102J
R	2685(B,196,25)		RS1/16S472J
R	2686(B,176,25)		RS1/16S472J
R	2687(B,194,25)		RS1/16S101J
R	2688(B,178,25)		RS1/16S101J
R	2689(A,169,43)		RS1/16S473J
R	2690(B,114,31)		RS1/16S473J
R	2691(B,116,31)		RS1/16S473J
R	2692(B,110,36)		RS1/16S473J
R	2693(A,131,135)		RS1/16S473J
R	2694(A,133,134)		RS1/16S471J
R	2695(A,128,135)		RS1/16S473J
R	2696(A,126,134)		RS1/16S471J
R	2701(B,149,142)		RS1/16S0R0J
R	2771(B,37,148)		RS1/16S0R0J
R	2772(B,50,149)		RS1/16S391J

CAPACITORS

C	2410(A,74,31)		CKSRYB103K50
C	2411(A,64,41)		CKSRYB103K50
C	2412(A,67,49)		CKSRYB103K50
C	2413(A,82,31)		CKSRYB103K50
C	2414(A,69,25)		CKSRYB103K50
C	2415(A,42,41)		CKSRYB103K50
C	2416(A,46,49)		CKSRYB103K50
C	2417(A,87,30)		CKSRYB103K50
C	2418(A,79,27)		CKSRYB103K50
C	2419(A,70,60)		CKSRYB103K50
C	2420(A,74,68)		CKSRYB103K50
C	2424(A,60,67)		CEAT101M10
C	2425(A,60,61)		CEAT101M10
C	2426(A,60,55)		CEAT101M10
C	2427(B,41,59)		CKSRYB104K16
C	2428(B,46,73)		CKSRYB104K16
C	2429(A,89,26)		CKSRYB103K50
C	2430(A,81,39)		CEAT100M50
C	2431(A,45,59)		CEAT101M10
C	2432(A,42,73)		CEAT101M10
C	2433(A,86,38)		CEAT100M50
C	2438(B,63,123)		CKSRYB103K50
C	2439(A,47,33)		CKSRYB224K10
C	2440(A,42,27)		CKSRYB224K10
C	2453(B,23,58)		CKSRYB103K50
C	2454(B,23,30)		CKSRYB103K50
C	2455(B,23,18)		CKSRYB103K50
C	2456(B,23,72)		CKSRYB103K50
C	2457(A,92,38)		CEAT100M50
C	2460(B,94,18)		CKSRYB104K16
C	2463(A,79,127)		CKSRYB103K50
C	2465(B,68,142)		CKSRYB103K50

Mark	No.	Description	Part No.
C	2466(B,68,141)		CKSRYB224K10
C	2467(B,71,142)		CKSRYB152K50
C	2471(A,49,27)		CEAT101M16
C	2472(A,41,23)		CEAT101M16
C	2481(A,74,135)		CKSRYB103K50
C	2482(B,65,34)		CKSRYB104K16
C	2483(A,60,25)		CEAT100M50
C	2503(A,164,99)		CEAT4R7M50
C	2504(A,154,99)		CEAT4R7M50
C	2511(A,166,111)		CCSRCH101J50
C	2512(A,152,111)		CCSRCH101J50
C	2513(A,161,114)		CKSRYB103K50
C	2514(A,157,114)		CKSRYB103K50
C	2515(A,165,115)		CEAT470M25
C	2516(A,153,115)		CEAT470M25
C	2527(A,202,99)		CEAT4R7M50
C	2528(A,192,99)		CEAT4R7M50
C	2535(A,204,111)		CCSRCH101J50
C	2536(A,190,111)		CCSRCH101J50
C	2537(A,199,114)		CKSRYB103K50
C	2538(A,195,114)		CKSRYB103K50
C	2539(A,203,115)		CEAT470M25
C	2540(A,191,115)		CEAT470M25
C	2553(A,183,99)		CEAT4R7M50
C	2554(A,173,99)		CEAT4R7M50
C	2561(A,185,111)		CCSRCH101J50
C	2562(A,171,111)		CCSRCH101J50
C	2563(A,180,114)		CKSRYB103K50
C	2564(A,176,114)		CKSRYB103K50
C	2565(A,184,115)		CEAT470M25
C	2566(A,172,115)		CEAT470M25
C	2577(A,221,99)		CEAT4R7M50
C	2578(A,211,99)		CEAT4R7M50
C	2585(A,223,111)		CCSRCH101J50
C	2586(A,209,111)		CCSRCH101J50
C	2587(A,218,114)		CKSRYB103K50
C	2588(A,214,114)		CKSRYB103K50
C	2589(A,222,115)		CEAT470M25
C	2590(A,210,115)		CEAT470M25
C	2621(A,140,146)		CKSRYB103K50
C	2623(B,169,145)		CKSRYB104K16
C	2624(A,131,133)		CKSRYB472K50
C	2625(A,128,133)		CKSRYB472K50
C	2626(A,191,24)		CEAT2R2M50
C	2627(A,183,24)		CEAT2R2M50
C	2628(A,193,37)		CEAT100M50
C	2629(A,184,37)		CEAT100M50
C	2631(A,169,66)		CKSRYB103K50
C	2632(A,178,56)		CKSRYB103K50
C	2633(A,144,31)		CCSRCH101J50
C	2634(A,145,45)		CCSRCH101J50
C	2635(A,149,39)		CKSRYB103K50
C	2636(A,149,35)		CKSRYB103K50
C	2637(A,139,34)		CEAT100M50
C	2638(A,140,42)		CEAT100M50
C	2639(A,154,68)		CCSRCH220J50
C	2640(A,154,54)		CCSRCH220J50
C	2641(A,158,60)		CKSRYB103K50
C	2642(A,151,63)		CKSRYB103K50
C	2643(A,147,68)		CCSRCH220J50
C	2644(A,147,54)		CCSRCH220J50
C	2645(A,161,65)		CEAT100M50
C	2646(A,161,57)		CEAT100M50
C	2647(A,151,60)		CKSRYB103K50
C	2648(A,144,63)		CKSRYB103K50
C	2649(B,162,34)		CKSRYB103K50
C	2650(B,152,45)		CKSRYB103K50
C	2651(A,142,60)		CKSRYB103K50
C	2652(A,129,65)		CKSRYB103K50
C	2661(A,188,59)		CKSRYB103K50
C	2662(A,195,57)		CKSRYB103K50
C	2663(A,190,84)		CEAT101M16
C	2664(A,184,84)		CEAT101M16
C	2665(A,203,84)		CEAT101M16
C	2666(A,196,84)		CEAT101M16
C	2667(A,215,84)		CEAT101M16
C	2668(A,209,84)		CEAT101M16
C	2669(A,227,84)		CEAT101M16
C	2670(A,221,84)		CEAT101M16
C	2671(A,191,58)		CCSRCH101J50
C	2672(A,191,56)		CCSRCH101J50
C	2681(B,143,83)		CKSRYB103K50
C	2682(A,153,84)		CEAT100M50
C	2683(A,160,87)		CEAT2R2M50
C	2684(A,160,82)		CEAT2R2M50
C	2685(A,137,90)		CEAT2R2M50
C	2686(A,137,84)		CEAT2R2M50
C	2687(A,142,92)		CCSRCH101J50
C	2688(A,142,90)		CCSRCH101J50
C	2695(A,116,92)	ELECT. CAPACITOR	CEAT470M25
C	2696(A,116,85)	ELECT. CAPACITOR	CEAT470M25
C	2771(A,46,144)		CEAT101M16
C	2773(A,40,146)		CEAT101M16
C	2779(B,31,89)		CKSRYB104K16
C	2783(B,23,117)		CKSRYB104K16
C	2784(B,23,116)		CKSRYB471K50
C	2785(B,25,133)		CKSRYB104K16
C	2786(B,25,135)		CKSRYB471K50
C	2787(B,30,150)		CKSRYB103K50
C	2788(B,30,148)		CKSRYB104K16

L DIGITAL MOTHER ASSY

SEMICONDUCTORS

IC	101	PEG395A8
IC	102	BU4842F
IC	104	BR24L32F-W
IC	105,106,108,111	TC74VHCT08AFTS1
IC	107,109,110,302	TC74VHCT125AFTS1
IC	112,305,310-312	TC74VHC08FTS1
IC	201	PEG396A
IC	202	AYW7180
IC	203	TC4094BFN
⚠ IC	204	NJM2880U1-33
IC	205	TC74LCX244FTS1
IC	206,207,210,301	TC74VHC125FTS1
IC	208	TC74VHC02FTS1
IC	209	TC74VHC04FTS1
IC	303	AK4114VQ

Mark	No.	Description	Part No.
	IC	304	TC7WHU04FU
	IC	306,307,309,313	TC74LCX157FTS1
	IC	308	TC74VHC125FTS1
	IC	314	TC74LCX157FTS1
	IC	315	TC74LCX541FTS1
	IC	316,317	ML87V5002
⚠	IC	318	NJM2885DL1-33
	IC	319	TC7SH08FUS1
	IC	471	AK5359ET
	IC	551,651,751,851	DSD1791DBR
	IC	552,652,752,852	BA4560RF
	IC	901	AK4387ET
	IC	902	BA4560RF
	IC	951	F2621E-01
⚠	IC	952	AAT4618IGV-0.5-1
⚠	IC	991	NJM2391DL1-33
	Q	101-104,106	RT3P22M
	Q	105,201,301	RT1N241M
	Q	107	RT1N141M-11
	Q	108	2SA1602A
	Q	109	RT1P431M
	Q	110,111	RT1P241M
	Q	202	2SA1366
	D	101,103,104,110	1SS352
	D	102,105,108,202	MC2848-11
	D	106	RB520S-30
	D	107	UDZS5R1(B)
	D	109,301	MC2846-11
	D	201	RB501V-40
	D	471,472	DAN217
	D	951,952	UDZS5R6(B)

MISCELLANEOUS

	L	101 CHIP SOLID INDUCTOR	QTL1013
	L	103,201 CHIP SOLID INDUCTOR	ATL7002
	L	301-318 CHIP SOLID INDUCTOR	QTL1013
	L	471,472 CHIP SOLID INDUCTOR	QTL1013
	L	552,561 CHIP SOLID INDUCTOR	QTL1013
	L	651,652 CHIP SOLID INDUCTOR	QTL1013
	L	751,752 CHIP SOLID INDUCTOR	QTL1013
	L	851,852 CHIP SOLID INDUCTOR	QTL1013
	L	901,951 CHIP SOLID INDUCTOR	QTL1013
	L	952 CHIP SOLID INDUCTOR	ATL7002
	JA	201 PIN JACK(2P)	AKB7173
	JA	202-205 OPT. LINK IN	AKS7001
	JA	207,208 OPT. LINK OUT	AKS7002
	JA	951 4P SOCKET	AKP7201
	X	101 RESONATOR	CSS1716
	X	201 CERAMIC RESONATOR	XSS3004
	X	301 CRYSTAL RESONATOR	XSS3003
	X	951 CRYSTAL RESONATOR	ASS7065
	CN	101,992 13P SOCKET	XKP3077
	CN	102 CONNECTOR	CKS3384
	CN	103 31P CONNECTOR	VKN1262
	CN	104 PLUG	CKS1760
	CN	201 CONNECTOR	CKS1755
	CN	202,203,991 PLUG	CKS1764
	CN	204 22P CONNECTOR	RKN1063
	CN	301 CONNECTOR	CKS3815
	CN	302 PLUG	CKS1762
	CN	303,304 26P PLUG	AKM7054

RESISTORS

	R	103,111,114,117	RAB4CQ101J
	R	104,106,112,120	RS1/16S104J
	R	107,207	RS1/16S512J
	R	118,167,171	RS1/16S222J
	R	119,121,125,134	RAB4CQ101J
	R	122,126-128	RS1/16S104J
	R	124,147,152,154	RS1/16S473J
	R	130-133,137,138	RS1/16S104J
	R	142,201,205,213	RAB4CQ101J
	R	143,145,157,183	RS1/16S104J
	R	151,617,618,717	RS1/16S474J
	R	155,203,204,206	RS1/16S473J
	R	162,215,216,248	RS1/16S472J
	R	166,170	RS1/16S153J
	R	177,901,902	RS1/16S223J
	R	180,182	RS1/16S105J
	R	184,192,193	RS1/16S104J
	R	208,241,305-308	RS1/16S101J
	R	209,214,218,220	RS1/16S473J
	R	211	RS1/16S103J
	R	217,219,224,225	RAB4CQ101J
	R	229,236,321,919	RAB4CQ101J
	R	230,231,235,237	RS1/16S473J
	R	238,240,242,244	RS1/16S473J
	R	245,246	RAB4CQ473J
	R	247	RS1/16S473J
	R	249-251,261	RS1/16S104J
	R	265-269,275,489	RS1/16S104J
	R	280	RS1/16S182J
	R	301,302	RS1/16S750J
	R	303,304	RS1/16S220J
	R	323	RS1/16SS1802F
	R	352,356,359,458	RS1/16S0R0J
	R	381,564,664,764	RS1/16S274J
	R	437,444,452,964	RAB4CQ470J
	R	477,481-484,521	RS1/16S0R0J
	R	490,562,563,662	RS1/16S104J
	R	501-504,601-604	RS1/16S222J
	R	505,506,509,510	RS1/16S362J
	R	507,508,511,512	RS1/16S101J
	R	513-516	RS1/16S122J
	R	519,520,619,620	RS1/16S221J
	R	522,922,988	RS1/16S0R0J
	R	605,609,705,706	RS1/16S302J
	R	606,610	RS1/16S682J
	R	607,608,611,612	RS1/16S101J
	R	613,615,713-716	RS1/16S152J
	R	614,616	RS1/16S102J
	R	663,762,763,972	RS1/16S104J
	R	701-704,801-804	RS1/16S222J
	R	707,708,711,712	RS1/16S101J
	R	709,710,805,806	RS1/16S302J
	R	718,817,818,913	RS1/16S474J
	R	719,720,819,820	RS1/16S221J
	R	807,808,811,812	RS1/16S101J

Mark	No.	Description	Part No.
R	809,810,903,904		RS1/16S302J
R	813-816		RS1/16S152J
R	905,906		RS1/16S392J
R	907-910		RS1/16S332J
R	911,912		RS1/16S221J
R	914		RS1/16S474J
R	920		RS1/16S4R7J
R	971		RS1/16S101J
R	975,987		RS1/16S104J
	Other Resistors		RS1/16SS###J

CAPACITORS

C	102,106,110,115		CKSRYB104K16
C	103,509,510,609		CKSRYB472K50
C	104,107,963		CKSRYB105K16
C	108,213,375		CEHAZL101M10
C	111,113		CKSSYB103K16
C	112,114		CKSSYB153K16
C	116,117		CKSRYB473K16
C	118,481,482,607		CEAT100M50
C	119		CEAT471M6R3
C	120,122-127,201		CKSRYB104K16
C	121,301,302,478		CKSRYB103K50
C	128,203,206,212		CKSSYB104K10
C	129,317,321,326		CKSSYB471K50
C	204,205,208,210		CKSRYB104K16
C	209		CEAT331M10
C	211,374,472		CKSQYB225K10
C	215,216,218,227		CKSRYB104K16
C	217,219,228,377		CKSRYB471K50
C	221-226,316,320		CKSSYB104K10
C	303-308,310,311		CKSRYB104K16
C	309,473,556,656		CEAT101M16
C	312		CEJQ470M16
C	314,364,371,372		CKSRYB104K16
C	315,319		CEJQ101M6R3
C	322		CKSRYB474K10
C	323,324,957,958		CCSSCH100D50
C	325,327,329,331		CKSSYB104K10
C	328,330,332,334		CKSSYB471K50
C	333,335,337,339		CKSSYB104K10
C	336,338,340,342		CKSSYB471K50
C	341,343,345,346		CKSSYB104K10
C	344,350,352,354		CKSSYB471K50
C	347,348,476,553		CEAT101M10
C	349,351,353,357		CKSSYB104K10
C	358,360,362,379		CKSSYB471K50
C	359,361,378,954		CKSSYB104K10
C	373		CEHAZL221M10
C	376,474,477,554		CKSRYB104K16
C	479,555,563,655		CKSRYB103K50
C	501,502,601,602		CKSRYB102K50
C	503-506,603,605		CCSRCH331J50
C	511,512,611,612		CKSRYB104K25
C	557-559,561,654		CKSRYB104K16
C	560,653,660,753		CEAT101M10
C	604,606		CCSRCH221J50
C	608,707,708,807		CEAT100M50
C	610,709,710,809		CKSRYB472K50
C	657-659,661,754		CKSRYB104K16
C	663,755,763,855		CKSRYB103K50
C	701,702,801,802		CKSRYB102K50
C	703-706,803-806		CCSRCH331J50
C	711,712,811,812		CKSRYB104K25
C	756,856		CEAT101M16
C	757-759,761,854		CKSRYB104K16
C	760,853,860,960		CEAT101M10
C	808,907,908		CEAT100M50
C	810		CKSRYB472K50
C	857-859,861,917		CKSRYB104K16
C	863,905,906,921		CKSRYB103K50
C	901,902		CEAT220M50
C	903,904		CCSRCH391J50
C	909,910		CCSRCH471J50
C	916,918,951		CEAT470M16
C	919,920,952,956		CKSRYB104K16
C	922		CKSRYB103K50
C	955		CKSSYB104K10
C	961,991,996,998		CKSRYB104K16
C	962,997,999		CKSRYB471K50
C	989,990		CKSRYB102K50
C	992		CEAT101M10
C	994,995		CKSRYB104K25

M DSP ASSY

SEMICONDUCTORS

IC	101		ADSP-21366KBCZ-1AA
IC	161,162		TC74VHC573FTS1
IC	163		TC7W139FU
IC	164		AYW7178
IC	165		TC7SH32FUS1
IC	171		CY7C1049D3310VXI
IC	201		DSPC56371AF180
IC	271		PDC163A8
IC	401		TC74VHC08FTS1
⚠ IC	511,521		PQ1LAX95MSPQ
⚠ IC	531		BD9107FVM
IC	751		TC7WHU04FU
Q	751		RT1N241M

MISCELLANEOUS

L	101,102	CHIP SOLID INDUCTOR	QTL1013
L	161-164	CHIP SOLID INDUCTOR	QTL1013
L	171	CHIP SOLID INDUCTOR	QTL1013
L	201-203	CHIP SOLID INDUCTOR	QTL1013
L	271,401	CHIP SOLID INDUCTOR	QTL1013
L	530	CHIP BEADS	ATL7010
L	531	POWER INDUCTOR	ATH7047
L	751	CHIP SOLID INDUCTOR	QTL1013
X	751	CRYSTAL RESONATOR	VSS1171
CN	401,402	26P SOCKET	AKP7198

RESISTORS

R	101-104,161-163		RAB4CQ470J
R	114,204,236		RAB4CQ101J
R	123,220		RAB4CQ220J
R	131,149		RAB4CQ472J
R	152		RS1/16S0R0J

Mark	No.	Description	Part No.
	R	219	RAB4CQ103J
	R	511	RS1/16SS2002F
	R	512,522	RS1/16SS1202F
	R	521	RS1/16SS1000F
	R	531	RS1/16SS9101F
	R	532	RS1/16SS1802F
	R	533	RS1/16SS1002F
	R	537	RS1/10S0R0J
	Other Resistors		RS1/16SS###J

CAPACITORS

	C	101,103,105,107	CKSSYB471K50
	C	102,104,106,108	CKSSYB104K10
	C	109,111,113,115	CKSSYB471K50
	C	110,112,114,116	CKSSYB104K10
	C	117,127,401,753	CKSSYB471K50
	C	118,128,131,133	CKSSYB104K10
	C	135,137,139,141	CKSSYB104K10
	C	145,228	CKSSYB103K25
	C	151,183,231,232	CEVW101M16
	C	152	ACH7275
	C	161,163,165,168	CKSSYB104K10
	C	169,171,173,201	CKSSYB104K10
	C	203,205,207,209	CKSSYB104K10
	C	211,213,215,217	CKSSYB104K10
	C	219,221,223,271	CKSSYB104K10
	C	402,754	CKSSYB104K10
	C	501,531,711	CEVW101M16
	C	511	CKSQYB105K16
	C	512,521,522	CKSRYB105K10
	C	532,534	DCH1201
	C	533	CKSSYB102K50
	C	751,752	CCSSCH100D50

N INTERFACE ASSY

MISCELLANEOUS

⚠	IC	4301(A,269,181) PROTECTOR(1.6A)	AEK7012
⚠	IC	4311(B,210,218) REGULATOR IC	NJM2885DL1-05
	Q	4301(B,112,168) CHIP TRANSISTOR	RSR015P03
	Q	4302(B,122,172) TRANSISTOR	RT1N241M
	Q	4381(B,7,182) TRANSISTOR(SC-70)	2SA1602A
	Q	4382(B,20,82) TRANSISTOR(SC-70)	2SA1602A
	Q	4383(B,19,92) TRANSISTOR	RT1N241M
	Q	4384(B,14,60) TRANSISTOR(SC-70)	2SA1602A
	Q	4385(B,13,68) TRANSISTOR	RT1N241M
	D	4301(B,6,48) DIODE	1SS352
	D	4381(B,10,193) DIODE	UDZS5R1(B)
	L	4351(B,201,236) INDUCTOR	CTF1385
	L	4352(B,208,224) INDUCTOR	CTF1385
	L	4353(B,135,221) INDUCTOR	CTF1385
	L	4354(B,135,217) INDUCTOR	CTF1385
	L	4355(B,133,221) INDUCTOR	CTF1385
	L	4356(B,131,221) INDUCTOR	CTF1385
	L	4357(B,132,217) INDUCTOR	CTF1385
	L	4358(B,132,211) INDUCTOR	CTF1385
	L	4359(B,129,211) INDUCTOR	CTF1385
	L	4360(B,127,211) INDUCTOR	CTF1385
	L	4361(B,35,236) INDUCTOR	CTF1385
	L	4362(B,44,237) INDUCTOR	CTF1385
	L	4363(B,34,236) INDUCTOR	CTF1385
	L	4364(B,137,221) INDUCTOR	CTF1385
	L	4365(B,139,217) INDUCTOR	CTF1385
	L	4366(B,126,225) INDUCTOR	CTF1385
	L	4381(B,29,191) CHIP SOLID INDUCTOR	ATL7002
	J	4 4PJUMPER WIRE	D20PDD0420E
	J	4308(A,260,196) CONNECTOR ASS'Y	PF11PG-R05
	J	4309(A,232,196) CONNECTOR ASS'Y	PF08PG-R05
	KN	4301(A,151,218) WRAPPING TERMINAL	VNF1084
	CN	4301(A,191,232) 13P PLUG	XKP3066
	CN	4302(A,184,232) CONNECTOR	CKS1730
	CN	4303(A,150,232) CONNECTOR	CKS1730
	CN	4304(A,119,232) CONNECTOR	CKS1730
	CN	4305(A,76,232) CONNECTOR	CKS1721
	CN	4306(A,58,232) CONNECTOR	CKS1728
	CN	4307(A,16,230) CONNECTOR	CKS3813
	CN	4308(A,79,207) 30P SOCKET	XKP3092
	CN	4309(A,41,207) 30P SOCKET	XKP3092
	CN	4310(A,192,183) 11P PLUG	XKP3065
	CN	4311(A,157,183) PLUG	CKS1724
	CN	4312(A,119,183) CONNECTOR	CKS1730
	CN	4313(A,67,183) PLUG	CKS1724
	CN	4314(A,56,184) 17P PLUG	XKP3068
	CN	4315(A,15,185) CONNECTOR(07P)	TUC-P07P-B1
	CN	4316(A,36,152) 17P PLUG	XKP3068
	CN	4317(A,35,128) 19P PLUG	XKP3069
	CN	4318(A,18,106) CONNECTOR(06P)	TUC-P06P-B1
	CN	4319(A,34,73) 17P PLUG	XKP3068
	CN	4320(A,37,43) 23P PLUG	XKP3071
	CN	4321(A,225,228) CONNECTOR	CKS3380
	Y	18 (A,9,199) 2P HOUSING WIRE ASSY	ADX7575
		4301(A,205,198) 4P CABLE HOLDER	51048-0400
		4302(A,28,197) 4P CABLE HOLDER	51048-0400
		4303(A,110,174) PCB BINDER	VEF1040
		4304(A,5,5) PCB BINDER	VEF1040
	Y	17 AWG14 BOARD IN	ADX7493
	Y	19 (A,18,203) 2P HOUSING WIRE ASSY	ADX7578
		4306(A,322,199) PCB BINDER	VEF1040
		4305(A,224,197) PCB BINDER	VEF1040

RESISTORS

	R	4301(B,116,168)	RS1/16S103J
	R	4302(B,121,168)	RS1/16S101J
	R	4303(B,291,189)	RS1/16S473J
	R	4304(B,291,183)	RS1/16S473J
	R	4371(B,117,219)	RS1/16S0R0J
	R	4372(B,117,221)	RS1/16S0R0J
	R	4381(B,8,176)	RS1/16S180J
	R	4382(B,8,178)	RS1/16S180J
	R	4383(B,8,187)	RS1/16S103J
	R	4384(B,10,189)	RS1/16S103J
	R	4385(B,24,84)	RS1/16S472J
	R	4386(B,19,87)	RS1/16S472J
	R	4387(B,14,64)	RS1/16S472J
	R	4388(B,18,65)	RS1/16S472J

CAPACITORS

	C	4301(A,295,191)	CEAT2R2M50
	C	4302(A,295,185)	CEAT2R2M50

Mark	No.	Description	Part No.
C	4303(A,134,198)	ELECTR. CAPACITOR	CEAL470M25
C	4304(A,151,201)	ELECTR. CAPACITOR	CEAL470M25
C	4308(B,110,210)		CKSRYB103K50
C	4311(B,205,213)		CKSRYB474K10
C	4312(B,202,219)		CKSQYB225K10
C	4330(B,153,223)		CKSRYB103K50
C	4331(B,151,223)		CKSRYB471K50
C	4361(B,21,227)		CKSRYB102K50
C	4362(B,12,208)		CKSRYB102K50
C	4365(B,20,208)		CKSRYB102K50
C	4366(B,38,213)		CKSRYB102K50
C	4367(B,26,189)		CKSRYB104K16
C	4368(B,16,158)		CKSRYB104K16
C	4369(B,18,161)		CKSRYB104K16
C	4382(B,10,191)		CKSRYB104K16

O POWER AMP IN ASSY

MISCELLANEOUS

Q	5601(B,61,180)	CHIP TRANSISTOR	2SD2704K
Q	5602(B,41,219)	TRANSISTOR	IMT4
Q	5603(B,45,207)	CHIP TRANSISTOR	2SA1514K
Q	5604(A,28,206)	TRANSISTOR	2SA1145
Q	5605(A,30,225)	TRANSISTOR	2SC2705
Q	5641(B,15,213)	CHIP TR	2SA1255
D	5601(B,38,205)	CHIP ZENER DIODE	UDZS3R6(B)
D	5602(B,38,207)	DIODE	1SS355
D	5603(B,26,222)	DIODE	1SS355
D	5604(B,28,212)	DIODE	1SS355
D	5605(B,28,218)	DIODE	UDZS4R7(B)
D	5606(B,26,212)	DIODE	UDZS4R7(B)
D	5641(B,11,229)	DIODE	1SS355
D	5642(B,13,229)	DIODE	1SS355
D	5643(B,9,229)	DIODE	1SS355
D	5644(B,45,238)	DIODE	1SS355
CN	5601(A,71,233)	13P PLUG	XKP3066
CN	5602(A,56,199)	13P PLUG	XKP3066
CN	5603(A,74,131)	19P CONNECTOR	52044-1945
CN	5605(A,47,233)	SOCKET 7-P	KP250NA7
CN	5606(A,32,199)	SOCKET 7-P	KP250NA7
	5604(A,7,215)	5P CABLE HOLDER	51048-0500

RESISTORS

R	5601(B,58,178)		RS1/16S102J
R	5602(B,48,212)		RS1/16S221J
R	5603(B,48,216)		RS1/16S333J
R	5604(B,58,182)		RS1/16S103J
R	5605(B,41,213)		RS1/16S152J
R	5606(B,38,217)		RS1/16S821J
R	5607(B,44,203)		RS1/16S2001F
R	5608(B,43,212)		RS1/16S682J
R	5609(A,36,214)	CARBON FILM RESISTOR	RD1/2VM473J
R	5610(B,32,202)		RS1/16S151J
R	5611(B,29,203)		RN1/16SE1201D
R	5612(B,31,230)		RS1/16S221J
⚠ R	5623(A,69,206)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5624(A,56,217)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5627(A,20,225)	RESISTOR (0.18, 5W)	ACN7121
R	5629(B,43,224)		RN1/10SE3302D
R	5630(B,45,220)		RN1/16SE1001D
R	5631(B,47,220)		RN1/16SE1500D
R	5632(B,29,229)		RS1/16S151J
R	5641(B,7,229)		RS1/16S473J
R	5642(B,13,195)		RS1/16S223J
R	5643(B,15,230)		RS1/16S471J
R	5644(B,15,195)		RS1/16S471J
R	5645(B,11,235)		RS1/16S472J
R	5646(B,13,235)		RS1/16S472J
R	5647(B,15,208)		RS1/16S122J
R	5648(B,48,238)		RS1/16S154J
R	5649(B,50,235)		RS1/16S103J
R	5650(B,52,235)		RS1/16S103J

CAPACITORS

C	5601(A,51,212)		CEAT4R7M50
C	5602(B,46,216)		CCSRCH221J50
C	5604(B,39,213)		CKSRYB102K50
C	5607(A,41,203)		CEAT101M10
C	5608(B,35,228)	CAPACITOR(CERAMIC)	ACG7057
C	5609(A,31,210)	ELECT. CAPACITOR	CEAT100M2A
C	5615(B,47,225)		CCSRCH220J50
C	5616(B,45,225)		CCSRCH220J50
C	5617(A,50,221)		CEAT331M10
C	5623(A,67,209)		CEAT100M63
C	5624(A,63,225)		CEAT100M63
C	5632(B,28,233)		CKSRYB224K16
C	5641(A,13,199)		CEANP2R2M50

P POWER PROTECT ASSY

MISCELLANEOUS

IC	5701(B,17,153)	OP-AMP IC	BA4560RF
Q	5701(B,10,107)	TRANSISTOR	RT1N241M
Q	5702(B,20,107)	DIGITAL TR(SC-70)	RT1P241M
Q	5704(B,16,166)	TRANSISTOR	2SC4081
Q	5705(B,13,107)	TRANSISTOR	RT1N241M
D	5701(B,26,166)	DIODE	1SS355
CN	5701(A,8,97)	11P PLUG	XKP3065
CN	5702(A,21,131)	11P PLUG	XKP3065
CN	5703(A,46,178)	19P CONNECTOR	52044-1945
CN	5704(A,17,181)	CONNECTOR	S5B-PH
CN	5705(A,19,39)	17P CONNECTOR	52044-1745

RESISTORS

R	5701(B,13,118)		RS1/16S332J
R	5702(B,16,118)		RS1/16S332J
R	5703(B,27,88)		RS1/16S473J
R	5704(B,27,81)		RS1/16S0R0J
R	5707(B,20,88)		RS1/16S473J
R	5709(B,22,81)		RS1/16S0R0J
R	5710(B,21,149)		RS1/16S223J
R	5711(B,21,153)		RS1/16S103J
R	5712(B,12,155)		RS1/16S472J
R	5713(B,21,158)		RS1/16S103J
R	5714(B,13,139)		RS1/16S102J
R	5715(B,8,166)		RS1/16S473J
R	5716(B,13,166)		RS1/16S472J
R	5717(B,19,166)		RS1/16S103J
R	5720(B,21,166)		RS1/16S103J

Mark	No.	Description	Part No.
R	5721(B,24,166)		RS1/16S683J
R	5746(B,17,88)		RS1/16S0R0J
R	5747(B,18,107)		RS1/16S0R0J
R	5750(B,26,161)		RS1/16S0R0J

CAPACITORS

C	5701(B,25,88)		CKSRYB104K50
C	5702(B,22,88)		CKSRYB104K50
C	5703(B,24,158)		CKSRYB104K50
C	5704(B,12,151)		CKSRYB104K50
C	5705(B,11,166)		CKSRYB223K50
C	5706(B,14,44)		CKSRYB103K50

Q POWER AMP L ASSY

MISCELLANEOUS

⚠ IC	5001(A,169,134)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5002(A,209,134)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5101(A,105,134)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5102(A,137,134)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5201(A,249,134)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5202(A,281,134)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5601(A,313,134)	DARLINGTON POWER IC	SAP17N(OY)
Q	5001(B,193,207)	CHIP TRANSISTOR	2SD2704K
Q	5002(B,181,194)	TRANSISTOR	IMT4
Q	5003(B,194,198)	CHIP TRANSISTOR	2SA1514K
Q	5004(A,192,184)	TRANSISTOR	2SA1145
Q	5005(A,168,192)	TRANSISTOR	2SC2705
Q	5041(B,156,195)	CHIP TR	2SA1255
Q	5101(B,136,207)	CHIP TRANSISTOR	2SD2704K
Q	5102(B,124,194)	TRANSISTOR	IMT4
Q	5103(B,137,198)	CHIP TRANSISTOR	2SA1514K
Q	5104(A,135,184)	TRANSISTOR	2SA1145
Q	5105(A,112,192)	TRANSISTOR	2SC2705
Q	5141(B,100,202)	CHIP TR	2SA1255
Q	5201(B,274,206)	CHIP TRANSISTOR	2SD2704K
Q	5202(B,262,193)	TRANSISTOR	IMT4
Q	5203(B,275,197)	CHIP TRANSISTOR	2SA1514K
Q	5204(A,273,183)	TRANSISTOR	2SA1145
Q	5205(A,250,191)	TRANSISTOR	2SC2705
Q	5241(B,238,197)	CHIP TR	2SA1255
D	5001(B,197,188)	CHIP ZENER DIODE	UDZS3R6(B)
D	5002(B,195,188)	DIODE	1SS355
D	5003(B,187,183)	DIODE	1SS355
D	5004(B,179,183)	DIODE	1SS355
D	5005(B,184,183)	DIODE	UDZS4R7(B)
D	5006(B,182,183)	DIODE	UDZS4R7(B)
D	5041(B,156,174)	DIODE	1SS355
D	5042(B,158,174)	DIODE	1SS355
D	5043(B,158,203)	DIODE	1SS355
D	5044(B,161,170)	DIODE	1SS355
D	5101(B,141,188)	CHIP ZENER DIODE	UDZS3R6(B)
D	5102(B,139,188)	DIODE	1SS355
D	5103(B,130,183)	DIODE	1SS355
D	5104(B,123,183)	DIODE	1SS355
D	5105(B,128,183)	DIODE	UDZS4R7(B)
D	5106(B,125,183)	DIODE	UDZS4R7(B)
D	5141(B,93,187)	DIODE	1SS355
D	5142(B,96,187)	DIODE	1SS355
D	5143(B,103,205)	DIODE	1SS355
D	5144(B,104,182)	DIODE	1SS355
D	5201(B,279,187)	CHIP ZENER DIODE	UDZS3R6(B)
D	5202(B,276,187)	DIODE	1SS355
D	5203(B,268,181)	DIODE	1SS355
D	5204(B,261,181)	DIODE	1SS355
D	5205(B,266,181)	DIODE	UDZS4R7(B)
D	5206(B,263,181)	DIODE	UDZS4R7(B)
D	5241(B,238,173)	DIODE	1SS355
D	5242(B,240,173)	DIODE	1SS355
D	5243(B,240,202)	DIODE	1SS355
D	5244(B,242,173)	DIODE	1SS355
⚠ TH	5001(A,160,229)	POSISTOR	PTFM04BC222Q2N34B0
CN	5001(A,320,205)	13P SOCKET	XKP3077
CN	5002(A,86,219)	11P SOCKET	XKP3076
CN	5003(A,313,196)	7-P PLUG	KM250NA7L

RESISTORS

R	5001(B,199,202)		RS1/16S102J
R	5002(B,187,202)		RS1/16S221J
R	5003(B,184,203)		RS1/16S333J
R	5004(B,199,205)		RS1/16S103J
R	5005(B,177,192)		RS1/16S152J
R	5006(B,170,200)		RS1/16S821J
R	5007(B,197,197)		RS1/16S2001F
R	5008(B,186,194)		RS1/16S682J
R	5009(A,189,193)	CARBON FILM RESISTOR	RD1/2VM473J
R	5010(B,197,183)		RS1/16S151J
R	5011(B,195,184)		RN1/16SE1201D
R	5012(B,169,197)		RS1/16S221J
⚠ R	5013(B,183,150)		RS1/16S330J
R	5021(B,176,153)		RS1/16S101J
R	5022(B,190,153)		RS1/16S101J
⚠ R	5023(A,198,166)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5024(A,168,176)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5025(B,163,156)	CHIP RESISTOR	ACN7132
⚠ R	5026(B,200,156)	CHIP RESISTOR	ACN7132
⚠ R	5027(A,192,166)	RESISTOR (0.18, 5W)	ACN7121
R	5029(B,174,203)		RN1/10SE3302D
R	5030(B,180,203)		RN1/16SE1001D
R	5031(B,180,205)		RN1/16SE1500D
R	5032(B,167,196)		RS1/16S151J
R	5041(B,154,169)		RS1/16S473J
R	5042(B,156,169)		RS1/16S223J
R	5043(B,152,169)		RS1/16S471J
R	5044(B,158,169)		RS1/16S471J
R	5045(B,158,179)		RS1/16S472J
R	5046(B,161,179)		RS1/16S472J
R	5047(B,157,187)		RS1/16S122J
R	5048(B,158,183)		RS1/16S154J
R	5049(B,161,183)		RS1/16S103J
R	5050(B,160,187)		RS1/16S103J
R	5101(B,143,202)		RS1/16S102J
R	5102(B,130,202)		RS1/16S221J
R	5103(B,127,203)		RS1/16S333J
R	5104(B,143,205)		RS1/16S103J
R	5105(B,120,192)		RS1/16S152J
R	5106(B,114,200)		RS1/16S821J
R	5107(B,141,197)		RS1/16S2001F

Mark	No.	Description	Part No.
	R 5108(B,130,194)		RS1/16S682J
	R 5109(A,133,193)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5110(B,141,183)		RS1/16S151J
	R 5111(B,139,184)		RN1/16SE1201D
	R 5112(B,113,197)		RS1/16S221J
⚠	R 5113(B,115,150)		RS1/16S330J
	R 5121(B,108,153)		RS1/16S101J
	R 5122(B,129,150)		RS1/16S101J
⚠	R 5123(A,142,166)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5124(A,111,176)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5125(B,99,156)	CHIP RESISTOR	ACN7132
⚠	R 5126(B,136,156)	CHIP RESISTOR	ACN7132
⚠	R 5127(A,136,166)	RESISTOR (0.18, 5W)	ACN7121
	R 5129(B,117,203)		RN1/10SE3302D
	R 5130(B,123,203)		RN1/16SE1001D
	R 5131(B,123,205)		RN1/16SE1500D
	R 5132(B,110,196)		RS1/16S151J
	R 5141(B,97,182)		RS1/16S473J
	R 5142(B,99,182)		RS1/16S223J
	R 5143(B,95,182)		RS1/16S471J
	R 5144(B,102,182)		RS1/16S471J
	R 5145(B,100,187)		RS1/16S472J
	R 5146(B,102,187)		RS1/16S472J
	R 5147(B,99,195)		RS1/16S122J
	R 5148(B,100,191)		RS1/16S154J
	R 5149(B,102,191)		RS1/16S103J
	R 5150(B,102,195)		RS1/16S103J
	R 5201(B,281,201)		RS1/16S102J
	R 5202(B,268,201)		RS1/16S221J
	R 5203(B,265,202)		RS1/16S333J
	R 5204(B,281,204)		RS1/16S103J
	R 5205(B,258,191)		RS1/16S152J
	R 5206(B,252,199)		RS1/16S821J
	R 5207(B,279,196)		RS1/16S2001F
	R 5208(B,268,193)		RS1/16S682J
	R 5209(A,271,192)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5210(B,278,183)		RS1/16S151J
	R 5211(B,276,183)		RN1/16SE1201D
	R 5212(B,251,196)		RS1/16S221J
⚠	R 5213(B,259,149)		RS1/16S330J
	R 5221(B,251,153)		RS1/16S101J
	R 5222(B,269,153)		RS1/16S101J
⚠	R 5223(A,280,164)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5224(A,250,175)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5225(B,238,156)	CHIP RESISTOR	ACN7132
⚠	R 5226(B,279,156)	CHIP RESISTOR	ACN7132
⚠	R 5227(A,274,165)	RESISTOR (0.18, 5W)	ACN7121
	R 5229(B,255,202)		RN1/10SE3302D
	R 5230(B,261,202)		RN1/16SE1001D
	R 5231(B,261,204)		RN1/16SE1500D
	R 5232(B,248,195)		RS1/16S151J
	R 5241(B,237,169)		RS1/16S473J
	R 5242(B,239,169)		RS1/16S223J
	R 5243(B,235,169)		RS1/16S471J
	R 5244(B,241,169)		RS1/16S471J
	R 5245(B,240,180)		RS1/16S472J
	R 5246(B,242,180)		RS1/16S472J
	R 5247(B,240,189)		RS1/16S122J
	R 5248(B,237,180)		RS1/16S154J
	R 5249(B,242,184)		RS1/16S103J
	R 5250(B,240,184)		RS1/16S103J
⚠	R 5292(B,300,156)	CHIP RESISTOR	ACN7132
⚠	R 5613(B,314,153)		RS1/16S330J
	R 5621(B,308,151)		RS1/16S101J

CAPACITORS

	C 5001(A,190,203)		CEAT4R7M50
	C 5002(B,184,200)		CCSRCH221J50
	C 5004(B,174,197)		CKSRYB102K50
	C 5007(A,202,193)		CEAT101M10
	C 5008(B,171,197)	CAPACITOR(CERAMIC)	ACG7057
	C 5009(A,186,188)	ELECT. CAPACITOR	CEAT100M2A
	C 5011(B,169,142)	CAPACITOR(CERAMIC)	ACG7056
	C 5012(B,197,142)	CAPACITOR(CERAMIC)	ACG7056
	C 5015(B,175,205)		CCSRCH220J50
	C 5016(B,175,207)		CCSRCH220J50
	C 5017(A,179,207)		CEAT331M10
	C 5023(A,197,180)		CEAT100M63
	C 5024(A,173,186)		CEAT100M63
	C 5032(B,166,199)		CKSRYB224K16
	C 5041(A,155,190)		CEANP2R2M50
	C 5051(A,219,183)	ELECT. CAPACITOR	CEAT100M2A
	C 5052(A,223,177)	ELECT. CAPACITOR	CEAT100M2A
	C 5101(A,133,203)		CEAT4R7M50
	C 5102(B,127,200)		CCSRCH221J50
	C 5104(B,117,197)		CKSRYB102K50
	C 5107(A,145,193)		CEAT101M10
	C 5108(B,115,197)	CAPACITOR(CERAMIC)	ACG7057
	C 5109(A,129,188)	ELECT. CAPACITOR	CEAT100M2A
	C 5111(B,101,142)	CAPACITOR(CERAMIC)	ACG7056
	C 5112(B,130,142)	CAPACITOR(CERAMIC)	ACG7056
	C 5115(B,119,205)		CCSRCH220J50
	C 5116(B,119,207)		CCSRCH220J50
	C 5117(A,123,207)		CEAT331M10
	C 5123(A,141,180)		CEAT100M63
	C 5124(A,116,186)		CEAT100M63
	C 5132(B,110,199)		CKSRYB224K16
	C 5141(A,96,198)		CEANP2R2M50
	C 5201(A,271,202)		CEAT4R7M50
	C 5202(B,265,199)		CCSRCH221J50
	C 5204(B,255,196)		CKSRYB102K50
	C 5207(A,283,192)		CEAT101M10
	C 5208(B,253,196)	CAPACITOR(CERAMIC)	ACG7057
	C 5209(A,267,187)	ELECT. CAPACITOR	CEAT100M2A
	C 5211(B,244,142)	CAPACITOR(CERAMIC)	ACG7056
	C 5212(B,275,142)	CAPACITOR(CERAMIC)	ACG7056
	C 5215(B,257,204)		CCSRCH220J50
	C 5216(B,257,206)		CCSRCH220J50
	C 5217(A,261,206)		CEAT331M10
	C 5223(A,287,181)		CEAT100M63
	C 5224(A,255,185)		CEAT100M63
	C 5232(B,248,198)		CKSRYB224K16
	C 5241(A,237,192)		CEANP2R2M50
	C 5611(B,307,142)	CAPACITOR(CERAMIC)	ACG7056

R POWER AMP R ASSY

MISCELLANEOUS

⚠	IC 5301(A,197,112)	DARLINGTON POWER IC	SAP17N(OY)
⚠	IC 5302(A,157,112)	DARLINGTON POWER IC	SAP17P(OY)

Mark	No.	Description	Part No.
⚠	IC 5401(A,125,112)	DARLINGTON POWER IC	SAP17N(OY)
⚠	IC 5402(A,93,112)	DARLINGTON POWER IC	SAP17P(OY)
⚠	IC 5501(A,269,112)	DARLINGTON POWER IC	SAP17N(OY)
⚠	IC 5502(A,237,112)	DARLINGTON POWER IC	SAP17P(OY)
⚠	IC 5602(A,301,112)	DARLINGTON POWER IC	SAP17P(OY)
	Q 5301(B,196,38)	CHIP TRANSISTOR	2SD2704K
	Q 5302(B,187,52)	TRANSISTOR	IMT4
	Q 5303(B,173,49)	CHIP TRANSISTOR	2SA1514K
	Q 5304(A,176,63)	TRANSISTOR	2SA1145
	Q 5305(A,199,49)	TRANSISTOR	2SC2705
	Q 5341(B,152,48)	CHIP TR	2SA1255
	Q 5401(B,132,38)	CHIP TRANSISTOR	2SD2704K
	Q 5402(B,126,52)	TRANSISTOR	IMT4
	Q 5403(B,113,48)	CHIP TRANSISTOR	2SA1514K
	Q 5404(A,119,64)	TRANSISTOR	2SA1145
	Q 5405(A,139,49)	TRANSISTOR	2SC2705
	Q 5441(B,94,46)	CHIP TR	2SA1255
	Q 5501(B,285,38)	CHIP TRANSISTOR	2SD2704K
	Q 5502(B,276,52)	TRANSISTOR	IMT4
	Q 5503(B,262,49)	CHIP TRANSISTOR	2SA1514K
	Q 5504(A,260,63)	TRANSISTOR	2SA1145
	Q 5505(A,288,49)	TRANSISTOR	2SC2705
	Q 5541(B,239,49)	CHIP TR	2SA1255
	Q 5571(B,225,38)	TRANSISTOR	2SC4081
	Q 5572(B,222,38)	TRANSISTOR	2SC4081
	D 5301(B,171,57)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5302(B,173,59)	DIODE	1SS355
	D 5303(B,181,64)	DIODE	1SS355
	D 5304(B,187,64)	DIODE	1SS355
	D 5305(B,183,64)	DIODE	UDZS4R7(B)
	D 5306(B,185,64)	DIODE	UDZS4R7(B)
	D 5341(B,153,67)	DIODE	1SS355
	D 5342(B,151,67)	DIODE	1SS355
	D 5343(B,151,44)	DIODE	1SS355
	D 5344(B,155,70)	DIODE	1SS355
	D 5401(B,114,59)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5402(B,116,60)	DIODE	1SS355
	D 5403(B,124,64)	DIODE	1SS355
	D 5404(B,130,64)	DIODE	1SS355
	D 5405(B,126,64)	DIODE	UDZS4R7(B)
	D 5406(B,128,64)	DIODE	UDZS4R7(B)
	D 5441(B,93,58)	DIODE	1SS355
	D 5442(B,90,58)	DIODE	1SS355
	D 5443(B,94,40)	DIODE	1SS355
	D 5444(B,111,79)	DIODE	1SS355
	D 5501(B,255,57)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5502(B,257,59)	DIODE	1SS355
	D 5503(B,265,64)	DIODE	1SS355
	D 5504(B,271,64)	DIODE	1SS355
	D 5505(B,267,64)	DIODE	UDZS4R7(B)
	D 5506(B,269,64)	DIODE	UDZS4R7(B)
	D 5541(B,240,71)	DIODE	1SS355
	D 5542(B,238,71)	DIODE	1SS355
	D 5543(B,242,46)	DIODE	1SS355
	D 5544(B,242,73)	DIODE	1SS355
⚠	TH 5301(A,166,17)	POSISTOR	PTFM04BC222Q2N34B0
	CN 5301(A,320,26)	13P SOCKET	XKP3077
	CN 5302(A,86,40)	11P SOCKET	XKP3076
	CN 5303(A,313,66)	7-P PLUG	KM250NA7L

RESISTORS

Mark	No.	Description	Part No.
	R 5301(B,203,43)		RS1/16S102J
	R 5302(B,191,42)		RS1/16S221J
	R 5303(B,187,41)		RS1/16S333J
	R 5304(B,203,40)		RS1/16S103J
	R 5305(B,194,55)		RS1/16S152J
	R 5306(B,194,52)		RS1/16S821J
	R 5307(B,169,48)		RS1/16S2001F
	R 5308(B,180,52)		RS1/16S682J
	R 5309(A,177,48)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5310(B,171,64)		RS1/16S151J
	R 5311(B,173,63)		RN1/16SE1201D
	R 5312(B,202,52)		RS1/16S221J
⚠	R 5313(B,183,97)		RS1/16S330J
	R 5321(B,190,93)		RS1/16S101J
	R 5322(B,176,93)		RS1/16S101J
⚠	R 5323(A,163,72)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5324(A,198,83)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5325(B,203,90)	CHIP RESISTOR	ACN7132
⚠	R 5326(B,166,91)	CHIP RESISTOR	ACN7132
⚠	R 5327(A,174,80)	RESISTOR (0.18, 5W)	ACN7121
	R 5329(B,179,45)		RN1/10SE3302D
	R 5330(B,183,46)		RN1/16SE1001D
	R 5331(B,183,43)		RN1/16SE1500D
	R 5332(B,203,49)		RS1/16S151J
	R 5341(B,153,77)		RS1/16S473J
	R 5342(B,151,77)		RS1/16S223J
	R 5343(B,153,73)		RS1/16S471J
	R 5344(B,151,73)		RS1/16S471J
	R 5345(B,152,60)		RS1/16S472J
	R 5346(B,150,60)		RS1/16S472J
	R 5347(B,147,58)		RS1/16S122J
	R 5348(B,151,55)		RS1/16S154J
	R 5349(B,151,57)		RS1/16S103J
	R 5350(B,156,46)		RS1/16S103J
	R 5401(B,138,43)		RS1/16S102J
	R 5402(B,126,42)		RS1/16S221J
	R 5403(B,123,41)		RS1/16S333J
	R 5404(B,138,40)		RS1/16S103J
	R 5405(B,134,55)		RS1/16S152J
	R 5406(B,134,52)		RS1/16S821J
	R 5407(B,109,48)		RS1/16S2001F
	R 5408(B,120,52)		RS1/16S682J
	R 5409(A,117,48)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5410(B,114,65)		RS1/16S151J
	R 5411(B,116,64)		RN1/16SE1201D
	R 5412(B,141,52)		RS1/16S221J
⚠	R 5413(B,115,97)		RS1/16S330J
	R 5421(B,128,93)		RS1/16S101J
	R 5422(B,108,93)		RS1/16S101J
⚠	R 5423(A,111,75)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5424(A,142,83)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5425(B,135,91)	CHIP RESISTOR	ACN7132
⚠	R 5426(B,96,91)	CHIP RESISTOR	ACN7132
⚠	R 5427(A,118,80)	RESISTOR (0.18, 5W)	ACN7121
	R 5429(B,114,44)		RN1/10SE3302D
	R 5430(B,118,45)		RN1/16SE1001D
	R 5431(B,118,43)		RN1/16SE1500D
	R 5432(B,143,49)		RS1/16S151J

Mark	No.	Description	Part No.
R	5441(B,99,85)		RS1/16S473J
R	5442(B,97,85)		RS1/16S223J
R	5443(B,101,85)		RS1/16S471J
R	5444(B,95,85)		RS1/16S471J
R	5445(B,91,52)		RS1/16S472J
R	5446(B,91,50)		RS1/16S472J
R	5447(B,90,46)		RS1/16S122J
R	5448(B,94,51)		RS1/16S154J
R	5449(B,96,51)		RS1/16S103J
R	5450(B,98,46)		RS1/16S103J
R	5501(B,292,43)		RS1/16S102J
R	5502(B,280,42)		RS1/16S221J
R	5503(B,276,41)		RS1/16S333J
R	5504(B,292,40)		RS1/16S103J
R	5505(B,283,55)		RS1/16S152J
R	5506(B,283,52)		RS1/16S821J
R	5507(B,258,48)		RS1/16S2001F
R	5508(B,269,52)		RS1/16S682J
R	5509(A,266,48)	CARBON FILM RESISTOR	RD1/2VM473J
R	5510(B,255,63)		RS1/16S151J
R	5511(B,257,63)		RN1/16SE1201D
R	5512(B,290,52)		RS1/16S221J
⚠ R	5513(B,259,97)		RS1/16S330J
R	5521(B,270,94)		RS1/16S101J
R	5522(B,251,93)		RS1/16S101J
⚠ R	5523(A,247,69)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5524(A,283,82)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5525(B,277,91)	CHIP RESISTOR	ACN7132
⚠ R	5526(B,238,91)	CHIP RESISTOR	ACN7132
⚠ R	5527(A,258,80)	RESISTOR (0.18, 5W)	ACN7121
R	5529(B,268,45)		RN1/10SE3302D
R	5530(B,272,46)		RN1/16SE1001D
R	5531(B,272,43)		RN1/16SE1500D
R	5532(B,292,49)		RS1/16S151J
R	5541(B,241,77)		RS1/16S473J
R	5542(B,235,77)		RS1/16S223J
R	5543(B,239,77)		RS1/16S471J
R	5544(B,237,77)		RS1/16S471J
R	5545(B,240,64)		RS1/16S472J
R	5546(B,238,64)		RS1/16S472J
R	5547(B,238,57)		RS1/16S122J
R	5548(B,235,68)		RS1/16S154J
R	5549(B,235,64)		RS1/16S103J
R	5550(B,245,45)		RS1/16S103J
R	5571(B,228,38)		RS1/16S472J
⚠ R	5592(B,301,91)	CHIP RESISTOR	ACN7132
R	5622(B,308,96)		RS1/16S101J

CAPACITORS

C	5301(A,194,43)		CEAT4R7M50
C	5302(B,187,43)		CCSRCH221J50
C	5304(B,198,55)		CKSRYB102K50
C	5307(A,164,52)		CEAT101M10
C	5308(B,198,52)	CAPACITOR(CERAMIC)	ACG7057
C	5309(A,181,58)	ELECT. CAPACITOR	CEAT100M2A
C	5311(B,197,104)	CAPACITOR(CERAMIC)	ACG7056
C	5312(B,170,104)	CAPACITOR(CERAMIC)	ACG7056
C	5315(B,179,43)		CCSRCH220J50
C	5316(B,174,43)		CCSRCH220J50
C	5317(A,179,39)		CEAT331M10
C	5323(A,160,63)		CEAT100M63
C	5324(A,191,61)		CEAT100M63
C	5332(B,204,52)		CKSRYB224K16
C	5341(A,147,62)		CEANP2R2M50
C	5351(A,228,68)	ELECT. CAPACITOR	CEAT100M2A
C	5352(A,224,62)	ELECT. CAPACITOR	CEAT100M2A
C	5401(A,129,43)		CEAT4R7M50
C	5402(B,123,43)		CCSRCH221J50
C	5404(B,138,55)		CKSRYB102K50
C	5407(A,105,52)		CEAT101M10
C	5408(B,138,52)	CAPACITOR(CERAMIC)	ACG7057
C	5409(A,125,59)	ELECT. CAPACITOR	CEAT100M2A
C	5411(B,130,104)	CAPACITOR(CERAMIC)	ACG7056
C	5412(B,101,104)	CAPACITOR(CERAMIC)	ACG7056
C	5415(B,114,42)		CCSRCH220J50
C	5416(B,109,43)		CCSRCH220J50
C	5417(A,114,39)		CEAT331M10
C	5423(A,107,61)		CEAT100M63
C	5424(A,135,61)		CEAT100M63
C	5432(B,143,52)		CKSRYB224K16
C	5441(A,87,45)		CEANP2R2M50
C	5501(A,283,43)		CEAT4R7M50
C	5502(B,276,43)		CCSRCH221J50
C	5504(B,287,55)		CKSRYB102K50
C	5507(A,253,52)		CEAT101M10
C	5508(B,287,52)	CAPACITOR(CERAMIC)	ACG7057
C	5509(A,265,58)	ELECT. CAPACITOR	CEAT100M2A
C	5511(B,272,104)	CAPACITOR(CERAMIC)	ACG7056
C	5512(B,245,104)	CAPACITOR(CERAMIC)	ACG7056
C	5515(B,268,43)		CCSRCH220J50
C	5516(B,263,43)		CCSRCH220J50
C	5517(A,268,39)		CEAT331M10
C	5523(A,244,59)		CEAT100M63
C	5524(A,280,61)		CEAT100M63
C	5532(B,293,52)		CKSRYB224K16
C	5541(A,238,54)		CEANP2R2M50
C	5571(A,231,35)		CEAT331M10
C	5612(B,307,104)	CAPACITOR(CERAMIC)	ACG7056

S LOCAL SUPPLY ASSY

MISCELLANEOUS

IC	6101(A,149,69)	IC	NJM78M06FA
⚠ IC	6102(A,149,19)	REGULATOR IC	NJM78M56FA
⚠ IC	6103(A,11,64)	REGULATOR IC	NJM78M12FA
⚠ IC	6104(A,11,39)	REGULATOR IC	NJM78M12FA
⚠ IC	6105(A,149,44)	IC	NJM79M05FA
⚠ IC	6106(A,11,14)	REGULATOR IC	NJM79M12FA
⚠ D	6101(A,111,50)	DIODE	D3SBA20(B)
⚠ D	6102(B,65,61)	DIODE	1SR154-400
⚠ D	6103(B,56,61)	DIODE	1SR154-400
⚠ D	6104(B,61,61)	DIODE	1SR154-400
D	6105(B,86,72)	DIODE	UDZS6R2(B)
D	6106(B,88,77)	DIODE	UDZS6R2(B)
D	6107(B,85,77)	DIODE	UDZS6R2(B)
D	6108(B,94,80)	DIODE	UDZS6R2(B)
D	6109(B,88,90)	DIODE	UDZS6R2(B)
D	6111(B,140,68)	CHIP DIODE	RB501V-40
D	6115(B,26,71)	CHIP DIODE	RB501V-40

Mark	No.	Description	Part No.
	D	6121(B,141,10) CHIP DIODE	RB501V-40
⚠	D	6122(B,59,39) DIODE	1SR154-400
⚠	D	6123(B,63,39) DIODE	1SR154-400
	D	6124(B,142,39) CHIP DIODE	RB501V-40
	D	6125(B,149,50) DIODE	1SS352
	D	6126(B,18,43) CHIP DIODE	RB501V-40
⚠	D	6127(B,63,26) DIODE	1SR154-400
⚠	D	6128(B,59,26) DIODE	1SR154-400
	D	6129(B,18,16) CHIP DIODE	RB501V-40
	J	2 JUMPER WIRE	D20PDY0415E
	J	6104(A,70,95) CONNECTOR ASS'Y	PF05PG-Q12
	CN	6101(A,112,73) PLUG(12P)	KM200NA12
	CN	6103(A,91,93) 6P JUMPER CONNECTOR	52147-0610
	CN	6105(A,60,8) PLUG(8P)	KM200NA8
	CN	6106(A,87,8) PLUG(11P)	KM200NA11
		6102(A,121,89) 4P CABLE HOLDER	51048-0400
		6101 PCB BINDER	VEF1040

RESISTORS

	R	6101(B,75,71)	RS1/16S473J
⚠	R	6103(A,76,77) CARBON FILM RESISTOR	RD1/4MUF391J

CAPACITORS

	C	6101(A,120,76) FILM CAPACITOR	CQMBA104J50
	C	6103(B,95,89)	CKSRYB103K50
	C	6105(B,146,72)	CKSRYB103K50
	C	6110(B,145,22)	CKSRYB103K50
	C	6111(B,142,46)	CKSRYB103K50
	C	6112(B,14,63)	CKSRYB103K50
	C	6115(B,15,37)	CKSRYB103K50
	C	6116(B,14,11)	CKSRYB103K50
	C	6117(A,63,52) ELECT. CAPACITOR	CEANP101M35
	C	6122(A,60,71) ELECT. CAPACITOR	CEAT101M35
	C	6123(A,71,70)	CEAT221M35
	C	6124(A,91,72)	CEAT470M50
	C	6125(A,84,89)	CEAT101M16
	C	6127(A,112,37) ELECT. CAPACITOR	CEAT682M16
	C	6129(A,144,58)	CEAT221M16
	C	6130(A,141,19)	CEAT101M16
	C	6131(A,94,37) ELECT. CAPACITOR	CEAT222M16
	C	6132(A,48,51) ELECT. CAPACITOR	CEAT222M25
	C	6133(A,144,31)	CEAT101M16
	C	6134(A,16,68)	CEAT100M50
	C	6135(A,18,52)	CEAT221M25
	C	6136(A,48,34) ELECT. CAPACITOR	CEAT222M25
	C	6137(A,18,27)	CEAT221M25

T DC/DC ASSY

MISCELLANEOUS

⚠	IC	4271(A,112,80) REGULATOR IC	PQ1CG3032FZ
⚠	D	4271(A,68,85) DIODE	D3SBA20(B)
⚠	D	4272(B,124,76) DIODE	RB051L-40
⚠	D	4273(B,115,53) DIODE	PTZ6R8(B)
	L	4271(A,131,65) INDUCTOR	ATH7044
	CN	4271(A,60,53) 4PJUMPER CONNECTOR	52151-0410
	CN	4272(A,102,57) CONNECTOR	B2PS-VH
		4273(A,62,68) PCB BINDER	VEF1040

Mark	No.	Description	Part No.

RESISTORS

	R	4272(B,128,85)	RN1/16SE1001D
	R	4273(B,128,81)	RN1/16SE3001D
	R	4274(B,130,74)	RS1/16S101J

CAPACITORS

	C	4272(A,92,65) ELECT. CAPACITOR	CEAT103M16
	C	4273(A,120,55) ELECT. CAPACITOR	CEHAZL102M6R3
	C	4274(A,62,70) ELECT. CAPACITOR	CEHAZL102M16
	C	4281(B,119,76)	CKSRYB104K16
	C	4282(B,111,54)	CKSYB104K25

U TRANS 2-1 ASSY

MISCELLANEOUS

⚠	IC	4201(A,111,106) PROTECTOR(7A)	AEK7021
⚠	IC	4202(A,95,152) PROTECTOR(7A)	AEK7021
	Q	4201(B,90,97) CHIP TRANSISTOR	RN1901
	Q	4202(B,81,97) TRANSISTOR	RT3T22M
	Q	4203(B,73,97) TRANSISTOR	RT3T22M
⚠	D	4201(B,100,140) BRIDGE DIODE	S1WB(A)60SD
	D	4203(B,98,105) DIODE	UDZS10(B)
	D	4204(B,71,105) DIODE	UDZS9R1(B)
	D	4205(B,100,105) DIODE	UDZS9R1(B)
	D	4206(B,71,102) DIODE	UDZS8R2(B)
	D	4207(B,100,99) DIODE	UDZS9R1(B)
	D	4208(B,76,104) DIODE	UDZS8R2(B)
	D	4209(B,96,99) DIODE	UDZS6R8(B)
	D	4210(B,76,101) DIODE	UDZS6R8(B)
	D	4211(B,94,102) DIODE	UDZS13(B)
	D	4212(B,81,101) DIODE	UDZS15(B)
	D	4213(B,96,104) DIODE	UDZS12(B)
	D	4214(B,81,104) DIODE	UDZS12(B)
	D	4215(B,77,95) DIODE	UDZS13(B)
	D	4216(B,68,94) DIODE	UDZS13(B)
	J	4201 JUMPER WIRE	D20PDY0610E
		4201(A,73,128) 6P CABLE HOLDER	51048-0600

RESISTORS

⚠	R	4205(A,85,129) METAL OXIDE RESISTOR	RS1LMF472J
⚠	R	4206(A,71,109) METAL OXIDE RESISTOR	RS1LMF472J
⚠	R	4207(A,88,126) METAL OXIDE RESISTOR	RS1/2LMF332J
⚠	R	4208(A,75,106) METAL OXIDE RESISTOR	RS1/2LMF332J

CAPACITORS

	C	4205(A,91,136) ELECT. CAPACITOR	CEAT471M2A
	C	4206(A,81,149) ELECT. CAPACITOR	CEAT471M2A
	C	4207(A,94,119) ELECT. CAPACITOR	CEAT101M63
	C	4208(A,94,108) ELECT. CAPACITOR	CEAT101M63
	C	4209(A,65,132) ELECT. CAPACITOR	CEAT221M2A
	C	4210(A,72,120) ELECT. CAPACITOR	CEAT221M2A

V VH-TR ASSY

MISCELLANEOUS

⚠	IC	4261(A,37,16) IC PROTECTOR	ICP-N15
⚠	IC	4262(A,21,16) IC PROTECTOR	ICP-N15
⚠	Q	4261(A,36,31) TRANSISTOR	2SD1763A
⚠	Q	4262(A,21,31) TRANSISTOR	2SB1186A
⚠	Q	4263(B,30,20) CHIP TRANSISTOR	2SC3906K

Mark	No.	Description	Part No.
⚠ Q	4264(B,15,20)	CHIP TRANSISTOR	2SA1514K
⚠ D	4261(B,42,16)	DIODE	1SR154-400
⚠ D	4262(B,26,19)	DIODE	1SR154-400
CN	4261(A,23,9)	6P JUMPER CONNECTOR	52147-0610

RESISTORS

R	4261(B,29,24)		RS1/16S100J
R	4262(B,14,24)		RS1/16S100J
R	4263(B,30,15)		RS1/16S471J
R	4264(B,14,13)		RS1/16S471J

W DIODE ASSY

MISCELLANEOUS

⚠ D	4251(A,189,128)	DIODE	D5SBA20(B)
⚠ D	4252(A,154,128)	DIODE	D5SBA20(B)

RESISTORS

⚠ R	4251(A,182,147)	CARBON FILM RESISTOR	RD1/4MUF100J

CAPACITORS

C	4251(A,171,143)	FILM CAPACITOR	CFTLA104J2A
C	4252(A,176,148)	FILM CAPACITOR	CFTLA104J2A

X SP/PS ASSY

MISCELLANEOUS

Q	4001(B,150,72)	TRANSISTOR	RT1N140M
Q	4002(B,229,97)	TRANSISTOR	RT1N140M
Q	4003(B,247,90)	TRANSISTOR	RT1N140M
Q	4004(B,290,84)	TRANSISTOR	RT1N140M
Q	4005(B,212,99)	TRANSISTOR	RT1N140M
D	4001(B,168,80)	DIODE	1SS352
D	4002(B,165,80)	DIODE	1SS352
D	4003(B,216,88)	DIODE	1SS352
D	4004(B,213,88)	DIODE	1SS352
D	4005(B,247,82)	DIODE	1SS352
D	4006(B,244,82)	DIODE	1SS352
D	4007(B,291,79)	DIODE	1SS352
D	4008(B,289,79)	DIODE	1SS352
D	4009(B,217,99)	DIODE	1SS352
D	4010(B,215,99)	DIODE	1SS352
L	4011(A,188,78)	COIL	ATH1053
L	4021(A,149,68)	COIL	ATH1053
L	4031(A,199,83)	COIL	ATH1053
L	4041(A,258,82)	COIL	ATH1053
L	4051(A,236,90)	COIL	ATH1053
L	4061(A,299,81)	COIL	ATH1053
L	4071(A,280,84)	COIL	ATH1053
J	4009(A,147,76)	CONNECTOR ASS'Y	PF13PG-R12
RY	4001(A,163,81)	RELAY	ASR7001
RY	4002(A,211,89)	RELAY	ASR7001
RY	4003(A,242,83)	RELAY	ASR7001
RY	4004(A,286,82)	RELAY	ASR7001
RY	4005(A,219,103)	RELAY	ASR7001
CN	4001(A,185,33)	SPEAKER TERMINAL 6-P	AKE7075
CN	4002(A,248,33)	SPEAKER TERMINAL 8-P	AKE7074
CN	4007(A,313,90)	CONNECTOR(05P)	TUC-P05P-B1
CN	4008(A,313,152)	CONNECTOR(09P)	TUC-P09P-B1
Y	13	AWG14 BOARD IN	ADX7461

RESISTORS

⚠ R	4011(A,187,68)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	4012(A,175,64)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	4013(A,193,94)	METAL OXIDE RESISTOR	RS2LMF331J
⚠ R	4021(A,158,70)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	4022(A,145,58)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	4023(A,188,97)	METAL OXIDE RESISTOR	RS2LMF331J
⚠ R	4031(A,196,87)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	4032(A,194,67)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	4041(A,254,82)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	4042(A,267,67)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	4051(A,240,93)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	4052(A,228,67)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	4061(A,309,79)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	4062(A,313,73)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	4071(A,280,88)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	4072(A,268,94)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	4101(A,222,115)	CARBON FILM RESISTOR	RD1/4MUF473J
⚠ R	4102(A,252,115)	CARBON FILM RESISTOR	RD1/4MUF473J

CAPACITORS

C	4001(A,162,88)		CEAT101M50
C	4011(A,182,60)		CFTLA104J50
C	4012(A,178,57)		CFTLA104J50
C	4021(A,145,48)		CFTLA104J50
C	4022(A,145,39)		CFTLA104J50
C	4031(A,197,63)		CFTLA104J50
C	4032(A,192,57)		CFTLA104J50
C	4041(A,257,63)		CFTLA104J50
C	4042(A,257,54)		CFTLA104J50
C	4051(A,224,61)		CFTLA104J50
C	4052(A,228,55)		CFTLA104J50
C	4061(A,304,61)		CFTLA104J50
C	4062(A,304,54)		CFTLA104J50
C	4071(A,270,65)		CFTLA104J50
C	4072(A,272,59)		CFTLA104J50
C	4101(A,212,137)		ACH7258
C	4102(A,258,137)		ACH7258

Y TRANS 2-2 ASSY

MISCELLANEOUS

H	3151(A,172,75)	FUSE CLIP	AKR7001
H	3152(A,151,75)	FUSE CLIP	AKR7001
H	3153(A,173,63)	FUSE CLIP	AKR7001
H	3154(A,152,63)	FUSE CLIP	AKR7001
H	3155(A,173,52)	FUSE CLIP	AKR7001
H	3156(A,152,52)	FUSE CLIP	AKR7001
H	3157(A,172,40)	FUSE CLIP	AKR7001
H	3158(A,151,40)	FUSE CLIP	AKR7001
H	3159(A,172,28)	FUSE CLIP	AKR7001
H	3160(A,151,28)	FUSE CLIP	AKR7001
J	3151(A,138,41)	CONNECTOR ASS'Y	PF12PG-R40

CAPACITORS

C	3001(A,158,11)	FILM CAPACITOR	CQMBA102J50

Mark	No.	Description	Part No.

Z POWER SW ASSY

MISCELLANEOUS

Q	3561(B,10,72)	DIGITAL TR(SC-70)	RT1N431M
D	3562(A,14,73)	LED(BLUE)	SLR343BC4T(JKLM)
S	3562(A,13,66)	SWITCH	VSG1024
	3562(A,32,81)	4P CABLE HOLDER	51048-0400

RESISTORS

R	3561(B,19,77)		RS1/16S151J

CAPACITORS

C	3563(B,15,80)		CCSRCH101J50

AA PRIMARY ASSY

MISCELLANEOUS

⚠ IC	3061(A,299,108)	REGULATOR IC	NJM78M56FA
Q	3061(B,281,71)	DIGITAL TR(SC-70)	RT1N431M
⚠ D	3061(B,297,92)	BRIDGE DIODE	S1WB(A)60SD
D	3062(B,299,78)	DIODE	1SS352
D	3063(B,308,78)	DIODE	UDZS5R1(B)
D	3064(B,275,78)	DIODE	1SS352
D	3065(B,275,71)	DIODE	1SS352
⚠ L	3063(A,244,35)	LINE FILTER	XTF3004
H	3061(A,223,57)	FUSE CLIP	AKR7001
H	3062(A,243,57)	FUSE CLIP	AKR7001
KN	3061(A,313,21)	WRAPPING TERMINAL	VNF1084
⚠ RY	3061(A,271,69)	POWER RELAY	ASR7022
⚠ T	3061(A,273,95)	STANDBY TRANSFORMER	ATT7043
⚠ CN	3061(A,228,33)	AC CODE SOCKET	RKP1751
CN	3062(A,308,126)	CONNECTOR(9P)	TUC-P09X-B1
CN	3063(A,246,126)	CONNECTOR(05P)	TUC-P05X-B1
⚠ CN	3067(A,276,45)	CONNECTOR	B2P3-VH
⚠	3064(A,189,66)	AC SOCKET 1-P	AKP1033

RESISTORS

⚠ R	3061(A,302,18)	RESISTOR(2.2M, 1/2W)	RCN1080
R	3062(B,303,78)		RS1/16S332J
R	3063(A,279,84)	CARBON FILM RESISTOR	RD1/4MUF220J
R	3064(B,305,78)		RS1/16S103J

CAPACITORS

⚠ C	3061(A,266,36)	FILM CAPACITOR	ACE7013
⚠ C	3062(A,252,63)		ACG7039
C	3063(A,289,115)	FILM CAPACITOR	CQMBA103J50
C	3064(B,291,104)		CKSRYB102K50
C	3065(B,289,104)		CKSRYB102K50
C	3066(B,294,100)		CKSRYB102K50
C	3067(B,308,85)		CKSRYB102K50
C	3068(A,305,94)	ELECT. CAPACITOR	CEAT332M25
C	3069(A,317,120)		CEAT221M25
C	3071(B,311,88)		CKSRYB103K50

AB VOLUME ASSY

MISCELLANEOUS

S	3571(A,272,203)	ROTARY ENCODER	ASX7049
	3571(A,251,238)	3P CABLE HOLDER	51048-0300

CAPACITORS

C	3571(B,274,214)		CKSRYB103K50
C	3572(B,270,214)		CKSRYB103K50

AC DISPLAY ASSY

MISCELLANEOUS

IC	3201(B,52,199)	DISPLAY U-COM	PE5615A
IC	3301(B,121,166)	MICROCOMPUTER IC	PDC158A8
IC	3302(A,17,218)	REMOTE RECEIVER UNIT	RPM7540-H9
⚠ IC	3304(B,166,152)	IC	S-1200B33-M5
Q	3301(B,188,185)	DIGITAL TR(SC-70)	RT1N431M
Q	3302(B,203,189)	DIGITAL TR(SC-70)	RT1N431M
Q	3303(B,25,184)	DIGITAL TR(SC-70)	RT1N431M
Q	3304(B,68,176)	DIGITAL TR(SC-70)	RT1N431M
Q	3305(B,109,190)	DIGITAL TR(SC-70)	RT1N431M
Q	3306(B,117,190)	DIGITAL TR(SC-70)	RT1N431M
Q	3307(B,125,190)	DIGITAL TR(SC-70)	RT1N431M
Q	3309(B,209,207)	TRANSISTOR(SC-70)	2SA1602A
Q	3310(B,195,207)	TRANSISTOR	RT1N241M
Q	3312(B,175,156)	MOS FET	2SK2034
D	3201(B,235,212)	DIODE	MC2848-11
D	3202(B,236,218)	DIODE	1SS352
D	3301(A,176,187)	LED(RED)	SLR-343VC(NPQ)
D	3303(A,212,187)	LED(RED)	SLR-343VC(NPQ)
D	3305(A,29,185)	LED(RED)	SLR-343VC(NPQ)
D	3307(A,65,185)	LED(RED)	SLR-343VC(NPQ)
D	3309(A,112,185)	LED(BLUE)	SLR343BC4T(JKLM)
D	3311(A,120,185)	LED(WHITE)	SLR343WBCT(MNPQ)
D	3313(A,127,185)	LED(BLUE)	SLR343BC4T(JKLM)
D	3315(B,187,209)	DIODE	1SS352
D	3316(B,199,205)	DIODE	1SS352
D	3317(B,190,209)	DIODE	MC2848-11
D	3319(B,178,151)	DIODE	RB751V-40
L	3201(B,235,223)	INDUCTOR	CTF1385
L	3202(B,221,213)	CHIP SOLID INDUCTOR	ATL7002
J	3202	JUMPER WIRE	D20PDY0620E
V	3201(A,182,237)	FL TUBE DISPLAY	AAV7113
S	3301(A,76,143)	SWITCH	VSG1024
S	3302(A,63,140)	SWITCH	VSG1024
S	3303(A,51,128)	SWITCH	VSG1024
S	3304(A,63,126)	SWITCH	VSG1024
S	3305(A,75,128)	SWITCH	VSG1024
S	3306(A,76,113)	SWITCH	VSG1024
S	3307(A,63,116)	SWITCH	VSG1024
S	3308(A,50,113)	SWITCH	VSG1024
S	3309(A,162,137)	SWITCH	VSG1024
S	3310(A,127,137)	SWITCH	VSG1024
S	3311(A,110,137)	SWITCH	VSG1024
S	3312(A,64,163)	SWITCH	VSG1024
S	3313(A,46,163)	SWITCH	VSG1024
S	3314(A,28,163)	SWITCH	VSG1024
S	3315(A,23,137)	SWITCH	VSG1024
S	3316(A,50,143)	SWITCH	VSG1024
S	3317(A,174,163)	SWITCH	VSG1024
S	3318(A,192,163)	SWITCH	VSG1024
S	3319(A,210,163)	SWITCH	VSG1024
S	3320(A,215,137)	SWITCH	VSG1024

Mark	No.	Description	Part No.
S	3321(A,197,137)	SWITCH	VSG1024
S	3322(A,180,137)	SWITCH	VSG1024
S	3323(A,145,137)	SWITCH	VSG1024
X	3201(A,74,191)	CERAMIC RESONATOR	VSS1142
X	3302(A,142,150)	CRYSTAL OSCILLATOR CRYSTAL OSC	CSS1653
CN	3301(A,220,164)	31P CONNECTOR	VKN1291
	3201(A,121,201)	FL HOLDER(FE)	VNF1096
	3202(A,241,231)	6P CABLE HOLDER	51048-0600
	3301(A,241,211)	3P CABLE HOLDER	51048-0300
	3302(A,7,150)	3P CABLE HOLDER	51048-0300
	3303(A,7,190)	4P CABLE HOLDER	51048-0400

RESISTORS

R	3201(B,68,240)	RS1/16S104J
R	3202(B,70,240)	RS1/16S104J
R	3203(B,72,240)	RS1/16S104J
R	3204(B,74,240)	RS1/16S104J
R	3205(B,76,240)	RS1/16S104J
R	3206(B,78,240)	RS1/16S104J
R	3207(B,80,240)	RS1/16S104J
R	3208(B,82,240)	RS1/16S104J
R	3209(B,84,240)	RS1/16S104J
R	3210(B,86,240)	RS1/16S104J
R	3211(B,88,240)	RS1/16S104J
R	3212(B,90,240)	RS1/16S104J
R	3213(B,92,240)	RS1/16S104J
R	3214(B,94,240)	RS1/16S104J
R	3215(B,96,240)	RS1/16S104J
R	3216(B,98,240)	RS1/16S104J
R	3217(B,100,240)	RS1/16S104J
R	3218(B,102,240)	RS1/16S104J
R	3219(B,104,240)	RS1/16S104J
R	3220(B,106,240)	RS1/16S104J
R	3221(B,108,240)	RS1/16S104J
R	3222(B,110,240)	RS1/16S104J
R	3223(B,112,240)	RS1/16S104J
R	3224(B,114,240)	RS1/16S104J
R	3225(B,116,240)	RS1/16S104J
R	3226(B,118,240)	RS1/16S104J
R	3227(B,120,240)	RS1/16S104J
R	3228(B,122,240)	RS1/16S104J
R	3229(B,124,240)	RS1/16S104J
R	3230(B,126,240)	RS1/16S104J
R	3231(B,128,240)	RS1/16S104J
R	3232(B,130,240)	RS1/16S104J
R	3233(B,132,240)	RS1/16S104J
R	3234(B,134,240)	RS1/16S104J
R	3235(B,136,240)	RS1/16S104J
R	3236(B,138,240)	RS1/16S104J
R	3237(B,140,240)	RS1/16S104J
R	3238(B,144,240)	RS1/16S473J
R	3239(B,146,240)	RS1/16S473J
R	3240(B,148,240)	RS1/16S473J
R	3241(B,150,240)	RS1/16S473J
R	3242(B,152,240)	RS1/16S473J
R	3243(B,154,240)	RS1/16S473J
R	3244(B,156,240)	RS1/16S473J
R	3245(B,158,240)	RS1/16S473J
R	3246(B,160,240)	RS1/16S473J
R	3247(B,162,240)	RS1/16S473J
R	3248(B,164,240)	RS1/16S473J
R	3249(B,166,240)	RS1/16S473J
R	3250(B,168,240)	RS1/16S473J
R	3251(B,170,240)	RS1/16S473J
R	3252(B,172,240)	RS1/16S473J
R	3253(B,174,240)	RS1/16S473J
R	3258(B,71,191)	RS1/16S105J
R	3259(B,63,180)	RS1/16S104J
R	3260(B,53,174)	RS1/16S104J
R	3261(B,231,208)	RS1/16S0R0J
R	3262(B,58,174)	RS1/16S101J
R	3263(B,56,174)	RS1/16S101J
R	3264(B,49,174)	RS1/16S104J
R	3306(B,15,179)	RS1/16S0R0J
R	3307(B,213,177)	RS1/16S0R0J
R	3310(B,207,180)	RS1/16S0R0J
R	3318(B,185,183)	RS1/16S681J
R	3319(B,202,185)	RS1/16S681J
R	3320(B,28,195)	RS1/16S681J
R	3321(B,70,180)	RS1/16S681J
R	3322(B,115,195)	RS1/16S151J
R	3323(B,123,195)	RS1/16S561J
R	3324(B,130,195)	RS1/16S151J
R	3326(B,153,151)	RS1/16S0R0J
R	3327(B,150,166)	RS1/16S101J
R	3329(B,147,157)	RS1/16S0R0J
R	3331(B,137,155)	RS1/16S105J
R	3332(B,139,153)	RS1/16S0R0J
R	3333(B,117,143)	RS1/16S474J
R	3334(B,117,141)	RS1/16S101J
R	3335(B,115,148)	RS1/16S473J
R	3336(B,115,146)	RS1/16S473J
R	3337(B,110,146)	RS1/16S473J
R	3338(B,110,148)	RS1/16S473J
R	3339(B,98,174)	RS1/16S101J
R	3340(B,99,183)	RS1/16S473J
R	3341(B,107,180)	RS1/16S101J
R	3342(B,105,180)	RS1/16S101J
R	3344(B,137,184)	RS1/16S101J
R	3345(B,139,179)	RS1/16S473J
R	3349(B,149,176)	RS1/16S101J
R	3350(B,149,174)	RS1/16S101J
R	3351(B,144,172)	RS1/16S101J
R	3352(B,75,147)	RS1/16S472J
R	3353(B,135,140)	RS1/16S472J
R	3354(B,178,168)	RS1/16S472J
R	3355(B,76,140)	RS1/16S681J
R	3356(B,56,132)	RS1/16S821J
R	3357(B,62,129)	RS1/16S122J
R	3358(B,71,128)	RS1/16S162J
R	3359(B,76,117)	RS1/16S272J
R	3360(B,62,113)	RS1/16S512J
R	3361(B,56,116)	RS1/16S123J
R	3363(B,119,137)	RS1/16S681J
R	3364(B,68,167)	RS1/16S821J
R	3365(B,55,161)	RS1/16S122J
R	3366(B,37,163)	RS1/16S162J
R	3367(B,28,140)	RS1/16S272J
R	3368(B,50,138)	RS1/16S512J

Mark	No.	Description	Part No.
R	3369(B,188,163)		RS1/16S681J
R	3370(B,207,167)		RS1/16S821J
R	3371(B,220,140)		RS1/16S122J
R	3372(B,194,140)		RS1/16S162J
R	3373(B,189,137)		RS1/16S272J
R	3374(B,167,141)		RS1/16S512J
R	3377(B,22,227)		RS1/16S101J
R	3378(B,206,205)		RS1/16S104J
R	3379(B,204,205)		RS1/16S104J
R	3380(B,202,205)		RS1/16S472J
R	3381(B,209,203)		RS1/16S102J
R	3382(B,213,203)		RS1/16S103J
R	3384(B,122,142)		RS1/16S221J
R	3385(B,122,147)		RS1/16S474J
R	3386(B,118,146)		RS1/16S221J
R	3387(B,118,148)		RS1/16S104J
R	3388(B,97,169)		RS1/16S221J
R	3389(B,95,170)		RS1/16S473J
R	3390(B,98,177)		RS1/16S221J
R	3391(B,101,176)		RS1/16S473J
R	3394(B,178,156)		RS1/16S333J
R	3395(B,173,154)		RS1/16S154J
R	3396(B,127,151)		RS1/16S104J
R	3397(B,110,173)		RS1/16S104J
R	3398(B,108,173)		RS1/16S104J
R	3399(B,101,172)		RS1/16S104J

CAPACITORS

C	3201(B,179,239)		CKSRYB104K50
C	3202(B,61,240)		CKSRYB102K50
C	3203(A,193,234)	ELECT. CAPACITOR	CEAT101M35
C	3204(B,186,236)		CKSRYB471K50
C	3205(B,142,233)		CKSRYB471K50
C	3206(B,144,233)		CKSRYB471K50
C	3207(B,146,233)		CKSRYB471K50
C	3208(B,148,233)		CKSRYB471K50
C	3209(B,151,233)		CKSRYB471K50
C	3210(B,153,233)		CKSRYB471K50
C	3211(B,155,233)		CKSRYB471K50
C	3212(B,157,233)		CKSRYB471K50
C	3213(B,161,233)		CKSRYB471K50
C	3214(B,163,233)		CKSRYB471K50
C	3215(B,165,233)		CKSRYB471K50
C	3216(B,167,233)		CKSRYB471K50
C	3217(B,170,233)		CKSRYB471K50
C	3218(B,172,233)		CKSRYB471K50
C	3219(B,174,233)		CKSRYB471K50
C	3220(B,176,233)		CKSRYB471K50
C	3221(A,171,193)		CEJQ221M6R3
C	3222(B,232,213)		CKSRYB103K50
C	3223(B,78,196)		CKSRYB102K50
C	3224(B,67,196)		CKSRYB104K16
C	3225(B,61,180)		CKSRYB104K16
C	3227(B,46,187)		CKSRYB104K16
C	3228(B,47,214)		CKSRYB105K10
C	3230(B,49,214)		CKSRYB104K50
C	3231(A,43,239)		CEAT470M50
C	3301(B,183,185)		CCSRCH101J50
C	3302(B,206,186)		CCSRCH101J50
C	3303(B,29,191)		CCSRCH101J50
C	3304(B,66,180)		CCSRCH101J50
C	3305(B,114,192)		CCSRCH101J50
C	3306(B,122,192)		CCSRCH101J50
C	3307(B,129,192)		CCSRCH101J50
C	3309(B,137,162)		CKSRYB104K16
C	3312(B,139,157)		CCSRCH120J50
C	3313(B,139,149)		CCSRCH120J50
C	3314(B,131,156)		CKSRYB105K10
C	3315(B,111,154)		CKSRYB104K16
C	3316(B,106,169)		CKSRYB104K16
C	3318(B,135,176)		CKSRYB104K16
C	3319(B,78,146)		CKSRYB102K50
C	3320(B,130,139)		CKSRYB102K50
C	3321(B,178,166)		CKSRYB102K50
C	3322(B,203,208)		CKSRYB103K50
C	3323(B,15,231)		CKSRYB103K50
C	3324(A,17,236)		CEJQ101M6R3
C	3325(B,213,174)		CKSRYB104K16
C	3326(B,213,172)		CKSRYB104K16
C	3327(B,122,149)		CKSRYB103K50
C	3329(B,103,176)		CKSRYB102K50
C	3330(B,162,155)		CKSRYB105K10
C	3331(B,171,155)		CKSRYB105K10
C	3332(B,133,180)		CKSRYB104K16
C	3333(B,118,181)		CKSRYB104K16

AD INPUT SELECT ASSY

MISCELLANEOUS

S	3561(A,61,63)	ROTARY ENCODER	ASX7051
	3561(A,89,94)	3P CABLE HOLDER	51048-0300

CAPACITORS

C	3561(B,63,74)		CKSRYB103K50
C	3562(B,59,74)		CKSRYB103K50

AE PREOUT & CONTROL ASSY

MISCELLANEOUS

IC	2931(A,205,121)	RS232 IC	HIN202EIBNZ
IC	2932(A,179,86)	IC	NJM2794V
IC	2933(A,184,100)	IC	NJM2505AF
Q	2801(A,206,14)	TRANSISTOR	IMX25
Q	2802(A,206,21)	TRANSISTOR	IMX25
Q	2821(A,206,27)	TRANSISTOR	IMX25
Q	2822(A,206,34)	TRANSISTOR	IMX25
Q	2841(A,206,40)	TRANSISTOR	IMX25
Q	2842(A,206,47)	TRANSISTOR	IMX25
Q	2861(A,206,53)	TRANSISTOR	IMX25
Q	2862(A,206,60)	TRANSISTOR	IMX25
Q	2931(B,200,114)	TRANSISTOR	2SC4154
Q	2952(B,207,110)	DIGITAL TR(SC-70)	RT1N431M
D	2931(B,205,122)	DIODE	1SS352
D	2951(B,189,121)	DIODE	1SS352
D	2952(B,188,114)	DIODE	1SS352
D	2957(A,199,92)	DIODE	UDZS6R2(B)
D	2958(A,196,92)	DIODE	UDZS6R2(B)
D	2959(A,199,96)	DIODE	UDZS6R2(B)
D	2960(A,199,98)	DIODE	UDZS6R2(B)

Mark	No.	Description	Part No.
JA	2804(A,229,98)	20P SOCKET	AKP7202
JA	2805(A,229,23)	PIN JACK(4P)	AKB7172
JA	2806(A,229,51)	PIN JACK(4P)	AKB7172
JA	2931(A,229,125)	9P D-SUB SOCKET	AKP1213
JA	2932(A,229,75)	SOCKET	BKP1127
CN	2801(A,173,26)	CONNECTOR	CKS3389
CN	2802(A,174,135)	23P SOCKET	XKP3082

RESISTORS

R	2801(B,212,14)		RS1/16S101J
R	2802(B,212,21)		RS1/16S101J
R	2803(B,206,14)		RS1/16S121J
R	2804(B,206,21)		RS1/16S121J
R	2805(B,200,14)		RS1/16S271J
R	2806(B,200,21)		RS1/16S271J
R	2807(A,211,16)		RS1/16S103J
R	2808(A,211,22)		RS1/16S103J
R	2809(A,202,16)		RS1/16S103J
R	2810(A,202,22)		RS1/16S103J
R	2821(B,212,26)		RS1/16S101J
R	2822(B,212,34)		RS1/16S101J
R	2823(B,206,27)		RS1/16S121J
R	2824(B,206,34)		RS1/16S121J
R	2825(B,200,27)		RS1/16S271J
R	2826(B,200,34)		RS1/16S271J
R	2827(A,211,29)		RS1/16S103J
R	2828(A,211,35)		RS1/16S103J
R	2829(A,202,29)		RS1/16S103J
R	2830(A,202,35)		RS1/16S103J
R	2841(B,212,39)		RS1/16S101J
R	2842(B,212,48)		RS1/16S101J
R	2843(B,206,40)		RS1/16S121J
R	2844(B,206,47)		RS1/16S121J
R	2845(B,200,40)		RS1/16S271J
R	2846(B,200,47)		RS1/16S271J
R	2847(A,211,42)		RS1/16S103J
R	2848(A,211,48)		RS1/16S103J
R	2849(A,202,42)		RS1/16S103J
R	2850(A,202,48)		RS1/16S103J
R	2861(B,212,53)		RS1/16S101J
R	2862(B,212,62)		RS1/16S101J
R	2863(B,206,53)		RS1/16S121J
R	2864(B,206,60)		RS1/16S121J
R	2865(B,200,53)		RS1/16S271J
R	2866(B,200,60)		RS1/16S271J
R	2867(A,211,55)		RS1/16S103J
R	2868(A,211,61)		RS1/16S103J
R	2869(A,202,55)		RS1/16S103J
R	2870(A,202,61)		RS1/16S103J
R	2931(B,188,119)		RS1/16S0R0J
R	2932(B,213,122)		RS1/16S101J
R	2933(B,188,117)		RS1/16S0R0J
R	2934(A,210,128)		RS1/16S101J
R	2935(B,188,125)		RS1/16S0R0J
R	2936(B,209,120)		RS1/16S474J
R	2937(B,205,117)		RS1/16S103J
R	2938(B,203,117)		RS1/16S224J
R	2939(B,223,118)		RS1/16S0R0J
R	2940(B,210,116)		RS1/16S224J
R	2941(A,210,116)		RS1/16S101J
R	2942(A,203,126)		RS1/16S101J
R	2943(A,208,128)		RS1/16S101J
R	2951(B,192,87)		RS1/16S473J
R	2952(B,192,92)		RS1/16S473J
R	2953(B,191,84)		RS1/16S331J
R	2954(B,191,95)		RS1/16S331J
R	2957(B,215,108)		RS1/16S514J
R	2961(B,210,107)		RS1/16S393J
R	2965(B,174,103)		RS1/16S104J
R	2966(B,174,93)		RS1/16S104J
R	2970(B,200,99)		RS1/16S750J
R	2971(B,195,103)		RS1/16S101J
R	2972(B,195,101)		RS1/16S101J
R	2973(A,203,68)		RS1/16S473J
R	2974(A,203,72)		RS1/16S473J
R	2975(A,200,68)		RS1/16S331J
R	2976(A,200,71)		RS1/16S331J
R	2979(B,186,76)		RS1/16S0R0J
R	2980(B,186,78)		RS1/16S0R0J
R	2996(B,179,75)		RS1/16S0R0J
R	2997(B,218,85)		RS1/16S0R0J

CAPACITORS

C	2891(B,223,23)		CKSRYB103K50
C	2892(B,222,50)		CKSRYB103K50
C	2931(B,214,135)		CKSRYB103K50
C	2933(B,198,119)		CKSRYB104K16
C	2934(B,207,120)		CKSRYB104K16
C	2935(A,201,116)		CKSRYB104K16
C	2936(A,205,116)		CKSRYB104K16
C	2937(A,198,121)		CKSRYB103K50
C	2938(A,193,120)		CEAT101M16
C	2939(B,212,118)		CKSRYB103K50
C	2940(B,201,117)		CCSRCH331J50
C	2945		CKSRYB102K50
C	2957(B,184,116)		CKSRYB103K50
C	2960(B,204,83)		CKSQYB105K16
C	2961(A,192,81)		CEAT4R7M50
C	2962(A,184,94)		CEAT4R7M50
C	2963(A,184,82)		CEAT4R7M50
C	2964(A,184,88)		CEAT4R7M50
C	2965(A,173,98)		CEAT4R7M50
C	2966(A,173,87)		CEAT4R7M50
C	2967(A,180,94)	ELECT. CAPACITOR	CEAT220M50
C	2968(A,181,79)		CEAT100M50
C	2973(B,215,114)		CKSRYB103K50
C	2976(B,222,108)		CKSRYB103K50
C	2979(A,181,99)		CKSRYB103K50
C	2980(A,189,105)		CEAT4R7M50
C	2981(A,188,99)		CEAT4R7M50
C	2982(A,184,105)		CEAT4R7M50
C	2998(A,212,73)		CKSRYB103K50

AF FR IN BARRIER1 ASSY

MISCELLANEOUS

	2301(A,81,67)	PCB BINDER	VEF1040

Mark	No.	Description	Part No.

AG HDMI POWER ASSY

MISCELLANEOUS

	H	6501(A,210,66) FUSE CLIP	AKR7001
	H	6502(A,210,45) FUSE CLIP	AKR7001
	CN	6501(A,213,85) 2P CONNECTOR	B2P-VH
	CN	6502(A,229,86) 2P TOP POST	B2B-EH
	CN	6503(A,227,38) CONNECTOR	B4B-EH

CAPACITORS

	C	6502(A,232,55) ELECT. CAPACITOR	CEAT682M25
	C	6503	CKSRYB102K50

AH HDMI TRANS ASSY

MISCELLANEOUS

⚠	Y	22 (A,237,173) 2P HOUSING WIRE ASSY	ADX7603
	Y	23 (A,239,230) 2P HOUSING WIRE ASSY	ADX7606

AI HDMI DIODE ASSY

MISCELLANEOUS

⚠	D	6501(A,227,13) DIODE	D3SBA20(B)
	J	6501(A,232,27) CONNECTOR ASS'Y	PF04EN-S05
		6501 PCB BINDER	VEF1040

AJ HDMI & DLNA ASSY (VSX-94TXH)

SEMICONDUCTORS

⚠	IC	11	NJM2846DL3-33
⚠	IC	21	NJM2846DL3-18
⚠	IC	31	NJM2886DL3-33
	IC	101	SII9135CTU
	IC	151	TC74VHC126FTS1
	IC	201,1381,1383,1384	TC74LCX541FTS1
	IC	202	ICS571MLF
	IC	203	TC7WH74FU
	IC	204,205	TC7WH157FU
	IC	251	TC74LCX157FTS1
	IC	301	SII9134CTU
	IC	401	ADV7800BSTZ-80
	IC	402	TC7WHU04FU
	IC	501	PEG118A
	IC	502	AYW7181
	IC	504	BU4094BCFV
	IC	505	TC7WH125FU
	IC	506	TC7WT125FU
	IC	601	ADV7172KSTZ
	IC	701	DM850E
	IC	801	AAT4618IGV-0.5-1
	IC	861	RTL8201CP-LF
	IC	881	AYW7185
	IC	891	HY57V641620FTP-6
	IC	911	TC74VHC08FTS1
	IC	921	TC74VHCT08AFTS1
⚠	IC	1001	BD9011KV
⚠	IC	1051	PQ200WNA1ZPH
⚠	IC	1071	NJM78M05DL1A
	IC	1101,1151	CXB1442AR
	IC	1201,1203,1251,1253	BR24L02FV-W
	IC	1202,1204,1252,1254	TC7MB3257FK
	IC	1205,1206,1255,1257	TC7WBD125AFK
	IC	1301	FLI2310-LF-CF
	IC	1351	EDS6432AFTA-6B-E
	Q	151,152,352,1101	DTC114YUA
	Q	201	DTA124EUA
	Q	351	UMB1N
	Q	631,641,651,661	2SA1576A
	Q	671,681,1051	2SA1576A
⚠	Q	1001,1002	SP8K1
	Q	1052	DTC124EUA
	Q	1102,1104,1151,1152	DTC114YUA
	Q	1103,1153	2SB1689
	Q	1154,1201-1203	DTC114YUA
	Q	1251-1253	DTC114YUA
	Q	1281	HN1K02FU
	D	11,22	RB050L-40
	D	301	UDZS5R1(B)
	D	551	RB501V-40
	D	1001,1002	RB160VA-40
⚠	D	1003,1004	RLZ5.6B
⚠	D	1071	RLZ6.8B
	D	1101,1102,1151,1150	DAN202U

MISCELLANEOUS

	L	10 CHIP BEEDS FILTER	BTX1040
	L	101-104,301-305 CHIP BEADS	ATL7010
	L	105,106 CHIP SOLID INDUCTOR	QTL1013
	L	201 INDUCTOR	CTF1379
	L	202-204 CHIP SOLID INDUCTOR	ATL7002
	L	207,251 CHIP SOLID INDUCTOR	ATL7002
	L	351-354 COIL	ATH7022
	L	401,402,404,406 CHIP BEADS	ATL7010
	L	403,405 CHIP SOLID INDUCTOR	QTL1013
	L	501,601 CHIP SOLID INDUCTOR	ATL7002
	L	602 CHIP SOLID INDUCTOR	ATL7002
	L	631,641,651,661 INDUCTOR	ATL7015
	L	671,681 INDUCTOR	ATL7015
	L	701,702,861,862 INDUCTOR	CTF1357
	L	704-707 CHIP FERRITE BEADS	ATF1211
	L	801 CHIP FERRITE BEADS	VTL1169
	L	802 COIL	VTH1043
	L	871,881,891,911 INDUCTOR	CTF1357
	L	921 INDUCTOR	CTF1357
	L	1001,1101,1151 CHIP BEADS	ATL7010
	L	1002 INDUCTOR	DTL1135
	L	1003 INDUCTOR	ATL7013
	L	1092,1093 INDUCTOR	CTF1386
	L	1301-1305 CHIP SOLID INDUCTOR	ATL7002
	L	1351 CHIP SOLID INDUCTOR	ATL7002
	JA	301 HDMI CONNECTOR	AKP7220
	JA	701 RJ45C ONNECTOR TRNS	AKP1307
	JA	1101,1102,1151 HDMI CONNECTOR	AKP1318
	JA	1152 HDMI CONNECTOR	AKP1318
	KN	1 SCREW PLATE	VNE1948
	X	101 CRYSTAL RESONATOR	ASS7068
	X	401 CRYSTAL RESONATOR	ASS7069
	X	501 CERAMIC RESONATOR	XSS3004
	X	701 CRYSTAL RESONATOR	XSS3003
	X	861 CRYSTAL RESONATOR	ASS7084

Mark	No.	Description	Part No.
X	1301	CRYSTAL RESONATOR	ASS7070
CN	502	7P CONNECTOR	VKN1411
CN	801	CONNECTOR	AKM1276
CN	901	22P CONNECTOR	RKN1063
CN	952	5P CONNECTOR	VKN1374
CN	1001,1002	CONNECTOR	CKS4898
	0	ID LABEL ASSY	AXW7015

RESISTORS

R	101,103-105		RAB4CQ220J
R	108		RAB4CQ100J
R	115,204,1385-1388		RAB4CQ680J
R	119,331,333-341		RAB4CQ473J
R	130-132,134-136		RAB4CQ220J
R	304		RS1/16SS6800F
R	428,429		RAB4CQ470J
R	432,433		RAB4CQ560J
R	434,437,442,443		RAB4CQ473J
R	446,447,450,702		RAB4CQ473J
R	464,465,467,468		RAB4CQ0R0J
R	480-483,741,761		RAB4CQ220J
R	579		RAB4CQ0R0J
R	596		RAB4CQ101J
R	609-612		RS1/16SS1201F
R	633,643,653,663		RS1/16SS2200F
R	634,644,654,664		RS1/16SS4700F
R	635,645,655,665		RS1/10S0R0J
R	673,683		RS1/16SS2200F
R	674,684		RS1/16SS4700F
R	675,685,1008,1009		RS1/10S0R0J
R	712,764,779		RAB4CQ473J
R	723		RS1/16S5101F
R	724		RS1/16S3900F
R	746,747,749		RAB4CQ330J
R	769,771,789		RAB4CQ220J
R	851-854		RAB4CQ330J
R	867		RS1/16S2001F
R	868-871		RS1/16S49R9F
R	1002,1004		ACN7156
R	1011		RS1/16SS4702F
R	1012,1022		RS1/16SS1502F
R	1023		RS1/16SS1202F
R	1031,1095,1096		RS1/10S0R0J
R	1052,1053		RS1/10S6R8J
R	1057		RS1/16SS1801F
R	1059		RS1/16SS2001F
R	1071-1073		RS1/16S0R0J
R	1110,1160		RS1/16SS4701F
R	1314-1317,1352		RAB4CQ220J
R	1394		RAB4CQ680J
Other Resistors			RS1/16SS###J

CAPACITORS

C	10		CEVW470M16
C	11,31,801		CKSSYB104K16
C	12,32		CKSQYB225K10
C	13,421,735,1004		CKSSYB102K50
C	21,106-108,110		CKSSYB104K10
C	22		DCG1028
C	23		CEVW221M4
C	33		CEVW101M6R3
C	101,102,301,302		DCH1165
C	103,104,303-305		CKSQYB106K6R3
C	105,113,121,122		CKSSYB105K6R3
C	109,111,131,152		CKSSYB103K16
C	114-120,123-126		CKSSYB104K10
C	127,320,463,740		CCSSCH120J50
C	128,462		CCSSCH100D50
C	129,130,133,307		CKSSYB105K6R3
C	132,134-139,151		CKSSYB104K10
C	153,203,204,308		CKSSYB103K16
C	201,205-207,251		CKSSYB104K10
C	202		CEVW4R7M35
C	210,718,721,860		CKSSYB471K50
C	306,309,311,313		CKSSYB104K10
C	310,312,314		CKSSYB105K6R3
C	315,316,351,403		CKSSYB104K10
C	317-319,404,433		CKSSYB105K6R3
C	401,402,419,434		CEVW101M16
C	405-411,418,420		CKSSYB104K10
C	412,414,435,436		CKSSYB103K16
C	413		CKSSYB823K10
C	415		CKSRYB824K10
C	416		CKSSYB393K10
C	417		CKSQYB106K6R3
C	422-429,431,437		CKSSYB104K10
C	430,432,710,742		CEVW100M16
C	438,441-443		CKSSYB104K10
C	439,440,1056,1303		DCH1201
C	445-449,461,502		CKSSYB104K10
C	501,613,1313,2503		CKSSYB103K16
C	503,601,611,802		CEVW101M16
C	504,506,508,509		CKSSYB104K10
C	505,610,1314-1318		CKSSYB105K6R3
C	551,552,602-609		CKSSYB104K10
C	612,614,615,617		CKSSYB104K10
C	631,641,651,661		CKSSYB104K10
C	632,633,642,643		CCSSCH101J50
C	652,653,662,663		CCSSCH101J50
C	671,681,701-706		CKSSYB104K10
C	672,673,682,683		CCSSCH101J50
C	708,709,711-717		CKSSYB104K10
C	719,722,724-734		CKSSYB104K10
C	720,867		CEVW220M16
C	723,875		CEVW470M6R3
C	736-739,861-865		CKSSYB104K10
C	741,1339,1340		CCSSCH120J50
C	743,1073,1302		CEVW100M16
C	803-805		CKSSYB104K16
C	807,1301,1305		CEVW101M16
C	866,869,881,895		CKSSYB471K50
C	868,871,872,874		CKSSYB104K10
C	870,1351		ACH7174
C	873		CEVW330M16
C	876,877		CCSSCH180J50
C	882,891-894,900		CKSSYB104K10
C	897-899,911,921		CKSSYB471K50
C	912,922,1054		CKSSYB104K10

Mark	No.	Description	Part No.
	C	1001	CEVW470M25
	C	1002	CCG1195
	C	1005,1012,1017,1018	CKSRYB104K25
A	C	1006	CKSSYB102K50
	C	1010	CKSRYB152K50
	C	1011,1024	BCG1059
	C	1013,1014,1022	CKSRYB105K10
	C	1015	CKSRYB332K50
	C	1016	CCSSCH330J50
	C	1019	CCSSCH221J50
	C	1020	CKSRYB103K25
	C	1021,1025,1072	CKSRYB104K25
	C	1023	CKSRYB222K50
	C	1051,1053	CKSQYB105K25
B	C	1052	CKSQYB224K25
	C	1071	CEVW1R0M50
	C	1102-1109,1152-1159	CKSSYB104K10
	C	1110,1160	DCH1165
	C	1201-1206,1251-1256	CKSSYB104K10
	C	1306,1308-1312	CKSSYB104K10
	C	1319-1322,1324-1332	CKSSYB104K10
	C	1335-1338,1341	CKSSYB104K10
	C	1352-1363	CKSSYB105K6R3
	C	1381-1383	CKSSYB104K10
	C	2505-2507	CKSSYB103K16

C

AK HDMI & DVC ASSY (VSX-92TXH)

SEMICONDUCTORS

	IC	101	SII9135CTU
	IC	151	TC74VHC126FTS1
	IC	201,1381,1383,1384	TC74LCX541FTS1
	IC	251	TC74LCX157FTS1
	IC	301	SII9134CTU
	IC	401	ADV7800BSTZ-80
	IC	402	TC7WHU04FU
D	IC	501	PEG118A
	IC	502	AYW7181
	IC	504	BU4094BCFV
	IC	505	TC7WH125FU
	IC	506	TC7WT125FU
	IC	601	ADV7172KSTZ
	IC	1001	BD9011KV
	IC	1051	PQ200WNA1ZPH
	IC	1071	NJM78M05DL1A
	IC	1151	CXB1442AR
E	IC	1203,1251,1253	BR24L02FV-W
	IC	1204,1252,1254	TC7MB3257FK
	IC	1255,1257	TC7WBD125AFK
	IC	1301	FLI2310-LF-CF
	IC	1351	EDS6432AFTA-6B-E
	Q	152,352,1102,1151	DTC114YUA
	Q	351	UMB1N
	Q	631,641,651,661	2SA1576A
	Q	671,681,1051	2SA1576A
	Q	1001,1002	SP8K1
	Q	1052	DTC124EUA
F	Q	1152,1154,1202	DTC114YUA
	Q	1153	2SB1689
	Q	1251-1253	DTC114YUA

Mark	No.	Description	Part No.
	Q	1281	HN1K02FU
	D	301	UDZS5R1(B)
	D	551	RB501V-40
	D	1001,1002	RB160VA-40
⚠	D	1003,1004	RLZ5.6B
⚠	D	1071	RLZ6.8B
	D	1102,1151,1152	DAN202U

MISCELLANEOUS

	L	101-104,301-305 CHIP BEADS	ATL7010
	L	105,106 CHIP SOLID INDUCTOR	QTL1013
	L	207,251 CHIP SOLID INDUCTOR	ATL7002
	L	351-354 COIL	ATH7022
	L	401,402,404,406 CHIP BEADS	ATL7010
	L	403,405 CHIP SOLID INDUCTOR	QTL1013
	L	501,601 CHIP SOLID INDUCTOR	ATL7002
	L	602 CHIP SOLID INDUCTOR	ATL7002
	L	631,641,651,661 INDUCTOR	ATL7015
	L	671,681 INDUCTOR	ATL7015
	L	1001,1151 CHIP BEADS	ATL7010
	L	1002 INDUCTOR	DTL1135
	L	1003 INDUCTOR	ATL7013
	L	1092,1093 INDUCTOR	CTF1386
	L	1301-1305 CHIP SOLID INDUCTOR	ATL7002
	L	1351 CHIP SOLID INDUCTOR	ATL7002
	JA	301 HDMI CONNECTOR	AKP7220
	JA	1102,1151,1152 HDMI CONNECTOR	AKP1318
	X	101 CRYSTAL RESONATOR	ASS7068
	X	401 CRYSTAL RESONATOR	ASS7069
	X	501 CERAMIC RESONATOR	XSS3004
	X	1301 CRYSTAL RESONATOR	ASS7070
	CN	502 7P CONNECTOR	VKN1411
	CN	1001,1002 CONNECTOR	CKS4898

RESISTORS

	R	101,103-105	RAB4CQ220J
	R	108	RAB4CQ100J
	R	115,204,1385-1388	RAB4CQ680J
	R	119,331,333-341	RAB4CQ473J
	R	130-132,134-136	RAB4CQ220J
	R	141-144	ACN1275
	R	304	RS1/16SS6800F
	R	428,429	RAB4CQ470J
	R	432,433	RAB4CQ560J
	R	434,437,442,443	RAB4CQ473J
	R	446,447,450	RAB4CQ473J
	R	464,465,467,468	RAB4CQ0R0J
	R	480-483,1314-1317	RAB4CQ220J
	R	579	RAB4CQ0R0J
	R	596	RAB4CQ101J
	R	609-612	RS1/16SS1201F
	R	633,643,653,663	RS1/16SS2200F
	R	634,644,654,664	RS1/16SS4700F
	R	635,645,655,665	RS1/10S0R0J
	R	673,683	RS1/16SS2200F
	R	674,684	RS1/16SS4700F
	R	675,685,1008,1009	RS1/10S0R0J
	R	1002,1004	ACN7156
	R	1011	RS1/16SS4702F
	R	1012,1022	RS1/16SS1502F

Mark	No.	Description	Part No.
R	1023		RS1/16SS1202F
R	1031,1095,1096		RS1/10S0R0J
R	1052,1053		RS1/10S6R8J
R	1057		RS1/16SS1801F
R	1059		RS1/16SS2001F
R	1071-1073		RS1/16S0R0J
R	1160		RS1/16SS4701F
R	1352		RAB4CQ220J
R	1394		RAB4CQ680J
	Other Resistors		RS1/16SS###J

CAPACITORS

C	101,102,301,302		DCH1165
C	103,104,303-305		CKSQYB106K6R3
C	105,113,121,122		CKSSYB105K6R3
C	106-108,110		CKSSYB104K10
C	109,111,131,152		CKSSYB103K16
C	114-120,123-126		CKSSYB104K10
C	127,320,463,1339		CCSSCH120J50
C	128,462		CCSSCH100D50
C	129,130,133,307		CKSSYB105K6R3
C	132,134-139,151		CKSSYB104K10
C	153,308,412,414		CKSSYB103K16
C	201,251,306,309		CKSSYB104K10
C	210		CKSSYB471K50
C	310,312,314		CKSSYB105K6R3
C	311,313,315,316		CKSSYB104K10
C	317-319,404,433		CKSSYB105K6R3
C	351,403,405-411		CKSSYB104K10
C	401,402,419,434		CEVW101M16
C	413		CKSSYB823K10
C	415		CKSRYB824K10
C	416		CKSSYB393K10
C	417		CKSQYB106K6R3
C	418,420,422-429		CKSSYB104K10
C	421,1004,1006		CKSSYB102K50
C	430,432,1073,1302		CEVW100M16
C	431,437,438		CKSSYB104K10
C	435,436,501,613		CKSSYB103K16
C	439,440,1056,1303		DCH1201
C	441-443,445-449		CKSSYB104K10
C	461,502,504,506		CKSSYB104K10
C	503,601,611,1301		CEVW101M16
C	505,610,1314-1318		CKSSYB105K6R3
C	508,509,551,552		CKSSYB104K10
C	602-609,612,614		CKSSYB104K10
C	615,617,631,641		CKSSYB104K10
C	632,633,642,643		CCSSCH101J50
C	651,661,671,681		CKSSYB104K10
C	652,653,662,663		CCSSCH101J50
C	672,673,682,683		CCSSCH101J50
C	1001		CEVW470M25
C	1002		CCG1195
C	1005,1012,1017,1018		CKSRYB104K25
C	1010		CKSRYB152K50
C	1011,1024		BCG1059
C	1013,1014,1022		CKSRYB105K10
C	1015		CKSRYB332K50
C	1016		CCSSCH330J50
C	1019		CCSSCH221J50
C	1020		CKSRYB103K25
C	1021,1025,1072		CKSRYB104K25
C	1023		CKSRYB222K50
C	1051,1053		CKSQYB105K25
C	1052		CKSQYB224K25
C	1054,1152-1159,1203		CKSSYB104K10
C	1071		CEVW1R0M50
C	1160		DCH1165
C	1204,1251-1256,1306		CKSSYB104K10
C	1305		CEVW101M16
C	1308-1312,1319-1322		CKSSYB104K10
C	1313		CKSSYB103K16
C	1324-1332,1335-1338		CKSSYB104K10
C	1340		CCSSCH120J50
C	1341,1381-1383		CKSSYB104K10
C	1351		ACH7174
C	1352-1363		CKSSYB105K6R3

AL TRANS 1 ASSY

TRANS 1 ASSY has no service part.

FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service part.