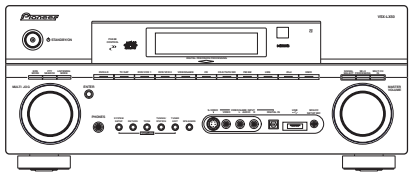
Pioneer sound.vision.soul

Service Manual



VSX-LX50

ORDER NO.
RRV3598

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-LX50
VSX-91TXH
VSX-9120TXH-K

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

Model	Type	Power Requirement	Remarks
VSX-LX50	HYXJ5	AC 220 V to 230V	
VSX-91TXH	KUXJ/CA	AC 120 V	
VSX-9120TXH-K	KUXJ	AC 120 V	

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

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PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

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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.

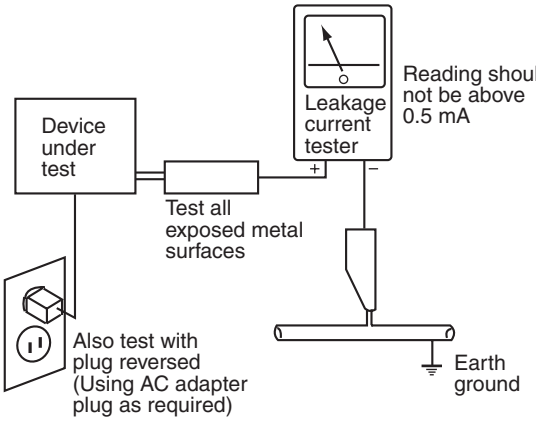
(FOR USA MODEL ONLY)

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.

CONTENTS

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).

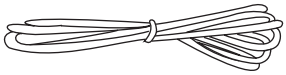
The following lead-free solders are available as service parts:
- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

2. SPECIFICATIONS

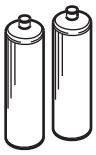
2.1 ACCESSORIES

● Accessories

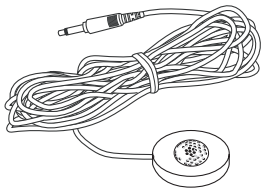
AM Loop Antenna
(ATB7013)



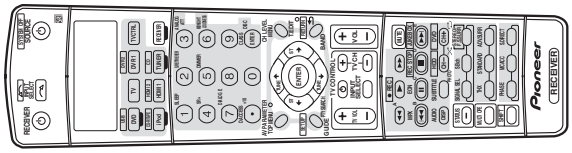
FM Wire Antenna
(ADH7030)



AA/LR6 Dry Cell Batteries
(VEM1031)



Setup Microphone
(for Auto MCACC setup)
(APM7008)



Remote Control Unit
(AXD7491: VSX-LX50)
(AXD7490: VSX-91TXH)
(AXD7497: VSX-9120TXH-K)

Audio Control Cable for iPod
(XDE7025)

KU models only

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2.2 SPECIFICATIONS

● VSX-LX50

Amplifier section

Continuous Power Output (Stereo)

Front .....150 W + 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
120 W + 120 W (DIN 1 kHz, THD 1 %, 8 Ω)

Continuous Power Output (Multichannel)

Front .....150 W + 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
120 W + 120 W (DIN 1 kHz, THD 1 %, 8 Ω)
Center..... 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
120 W (DIN 1 kHz, THD 1 %, 8 Ω)
Surround...150 W + 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
120 W + 120 W (DIN 1 kHz, THD 1 %, 8 Ω)
Surround back
.....150 W + 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
120 W + 120 W (DIN 1 kHz, THD 1 %, 8 Ω)
Rated Power Output..... 130 W + 130 W
(20 Hz to 20 kHz, 0.09 %, 6 Ω)
Rated Power Output..... 110 W + 110 W
(20 Hz to 20 kHz, 0.09 %, 8 Ω)

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

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
[DIN (continuous rated power output/50 mW)]
LINE..... 92 dB / 65 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: 15.2 dBf, IHF (1.6 µV/75 Ω)
50 dB Quieting Sensitivity .....Mono: 20.2 dBf
Stereo: 41.2 dBf
Sensitivity (DIN).....Mono: 1.1 µV (S/N 26 dB)
Stereo: 50 µV (S/N 46 dB)
Signal-to-Noise Ratio.....Mono: 76 dB (at 85 dBf)
Stereo: 72 dB (at 85 dBf)
Signal-to-Noise Ratio (DIN).....Mono: 62 dB
Stereo: 58 dB
Distortion .....Stereo: 0.6 % (1 kHz)
Alternate Channel Selectivity ..... 70 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..... 531 kHz to 1602 kHz (9 kHz step)
Sensitivity (IHF, Loop antenna) .....350 µV/m
Selectivity .....30 dB
Signal-to-Noise Ratio.....50 dB
Antenna ..... Loop antenna

Miscellaneous

Power Requirements...AC 220 V to 230 V, 50 Hz / 60 Hz
Power Consumption .....450 W
In standby.....0.6 W
Dimensions.....420 (W) mm x 173 (H) mm x 465 (D) mm
Weight (without package)..... 15.3 kg

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
Warranty card..... 1
Operating instructions

Note

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

● VSX-91TXH/VSX-9120TXH-K

Amplifier section

Continuous average power output of 110 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 ..... 110 W + 110 W
Center ..... 110 W
Surround ..... 110 W + 110 W
Surround back ..... 110 W + 110 W

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

Front ..... 150 W + 150 W
Center ..... 150 W
Surround ..... 150 W + 150 W
Surround back ..... 150 W + 150 W

Total harmonic distortion ..... 0.09 %
(20 Hz to 20 kHz, 110 W, 8 Ω)

* 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 ..... 490 W, 650 VA
In standby ..... 0.65 W
AC Outlet ..... (switched) 100 W MAX.
Dimensions ..... 420 (W) mm x 173 (H) mm x 465 (D) mm
(16 $^{9}/_{16}$ (W) in. x 6 $^{13}/_{16}$ (H) in. x 18 $^{5}/_{16}$ (D) in.)
Weight (without package) ..... 15.3 kg (33 lbs 12 oz)

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
Warranty card 1
Operating instructions
(*) Audio Control cable for iPod 1

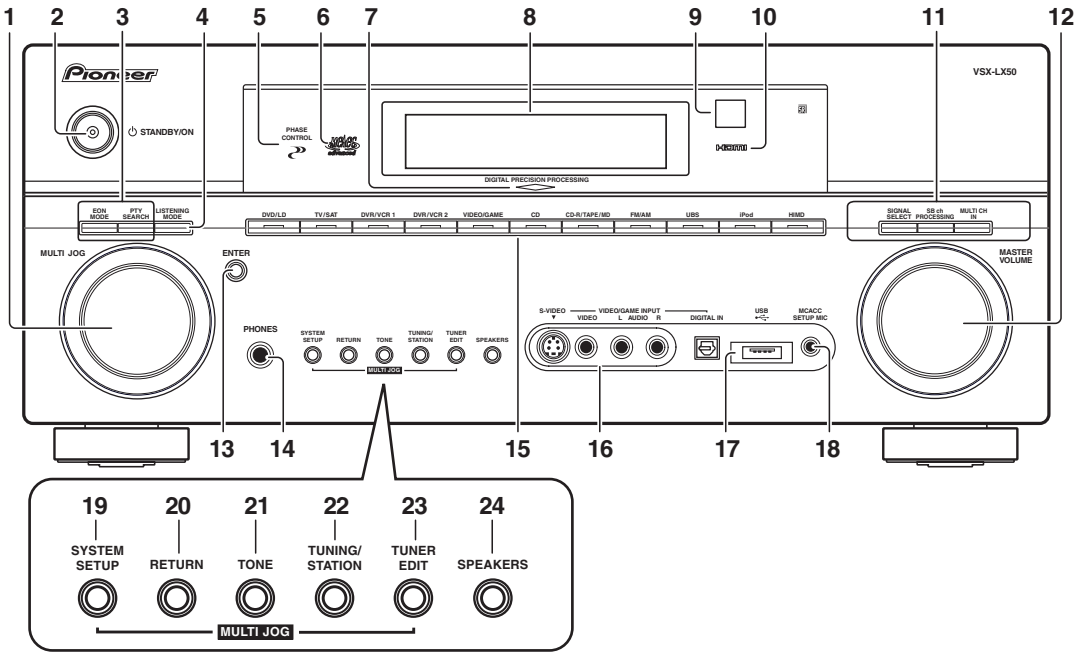
Note

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

(*) KU models only

2.3 PANEL FACILITIES

● Front Panel (VSX-LX50)



1 MULTI JOG dial
Use the **MULTI JOG** dial to select various settings and menu options.

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

3 EON MODE
Use to search for programs that are broadcasting traffic or news information.

PTY SEARCH
Use this button to search for RDS program types.

4 LISTENING MODE
Use with the **MULTI JOG** dial to select the various listening modes.

5 PHASE CONTROL indicator
Lights when the Phase Control is switched on.

6 MCACC indicator
Lights when one of the MCACC presets is selected.

7 DIGITAL PRECISION PROCESSING indicator
Lights to indicate digital processing.

8 Character display
See Display on.

9 Remote sensor
Receives the signals from the remote control.

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

11 SIGNAL SELECT
Use to select an input signal.

SB ch PROCESSING – Selects the surround back channel mode or virtual surround back mode.
MULTI CH IN – Press to select the multichannel analog inputs.

12 MASTER VOLUME dial

13 ENTER

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

15 Input source buttons
Press to select an input source.

16 VIDEO/GAME INPUT

17 USB interface
Connect a USB audio device for playback.

18 MCACC SETUP MIC jack
Use to connect the supplied microphone.

19 SYSTEM SETUP
Press to access the System Setup menu.

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

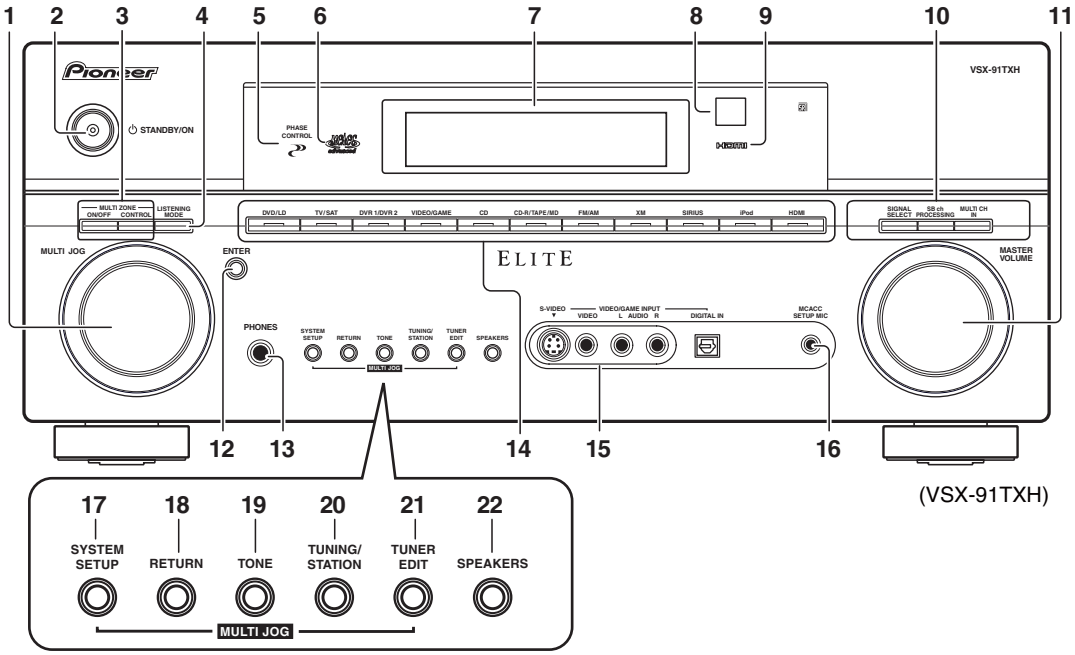
21 TONE
Press this button to access the bass and treble controls, which you can then adjust with the **MULTI JOG** dial.

22 TUNING/STATION
Use to find radio frequencies and to select preset stations.

23 TUNER EDIT
Use with the **MULTI JOG** dial to memorize and name stations for recall.

24 SPEAKERS
Use to change the speaker system.

● Front Panel (VSX-91TXH/VSX-9120TXH-K)



(VSX-91TXH)

1 MULTI JOG dial
Use the **MULTI JOG** dial to select various settings and menu options.

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

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

4 LISTENING MODE
Use with the **MULTI JOG** dial to select the various listening modes.

5 PHASE CONTROL indicator
Lights when Phase Control is switched on.

6 MCACC indicator
Lights when one of the MCACC presets is selected.

7 Character display

8 Remote sensor
Receives the signals from the remote control.

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

10 SIGNAL SELECT
Use to select an input signal.

SB ch PROCESSING – Selects the surround back channel mode or virtual surround back mode.

MULTI CH IN – Press to select the multichannel analog inputs.

11 MASTER VOLUME dial

12 ENTER

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

14 Input source buttons
Press to select an input source.

15 VIDEO/GAME INPUT

16 MCACC SETUP MIC jack
Use to connect the supplied microphone.

17 SYSTEM SETUP
Press to access the System Setup menu.

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

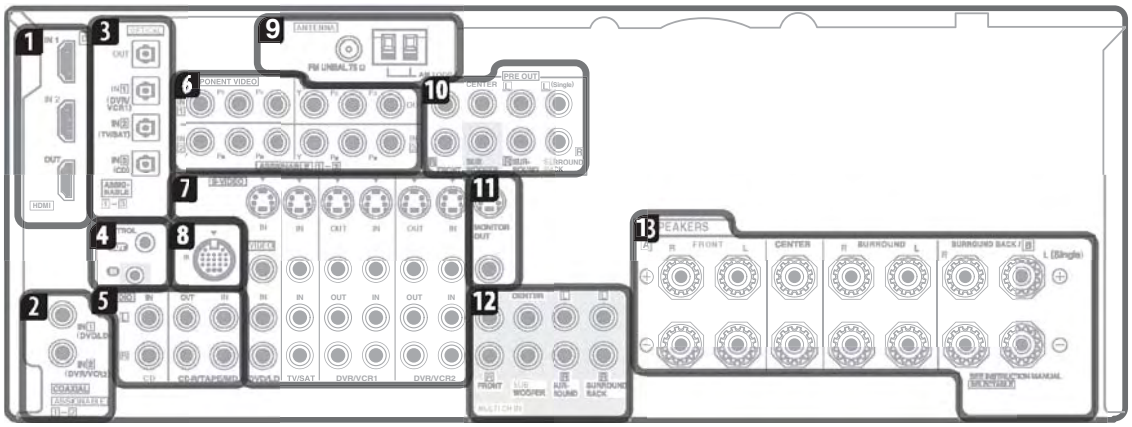
19 TONE
Press this button to access the bass and treble controls, which you can then adjust with the **MULTI JOG** dial.

20 TUNING/STATION
Use to find radio frequencies and to select preset stations.

21 TUNER EDIT
Use with the **MULTI JOG** dial to memorize and name stations for recall.

22 SPEAKERS
Use to change the speaker system.

● Rear Panel (VSX-LX50)



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 HDMI connectors (x3)
Two inputs and one output for high-quality audio/video connection to compatible HDMI devices.

2 Coaxial digital audio inputs (x2)
Use for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

3 Optical digital audio output/input(s) (x4)
Use the **OUT** jack for recording to a CD or MiniDisc recorder.
Use the **IN** jacks for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

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

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

6 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.

7 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 and stereo analog audio.

8 iPod input terminal
Use to connect your Apple iPod as an audio source.

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

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

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

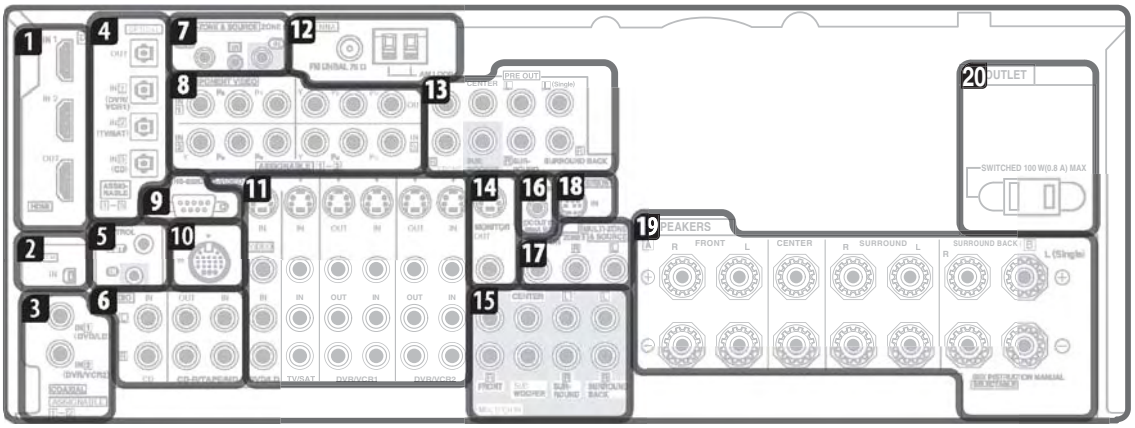
12 Multichannel analog audio inputs
7.1 channel inputs for connection to a DVD player with multichannel analog outputs.

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

Note

1 If the video signal does not appear on your TV or plasma display, try adjusting the resolution settings on your component or display. Note that some components (such as video game units) have resolutions that may not be converted. In this case, use an (analog) S-video or composite connection.

● Rear Panel (VSX-91TXH/VSX-9120TXH-K)



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 HDMI connectors (x3)
Two inputs and one output for high-quality audio/video connection to compatible HDMI devices.

2 XM Radio input

3 Coaxial digital audio inputs (x2)
Use for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

4 Optical digital audio output/input(s) (x4)
Use the **OUT** jack for recording to a CD or MiniDisc recorder.
Use the **IN** jacks for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

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

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

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

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 RS-232C connector
Use for connection to a PC for graphical output when using Advanced MCACC.

10 iPod input terminal
Use to connect your Apple iPod as an audio source.

11 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 and stereo analog audio.

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

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

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

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

16 12 V trigger jack (total 50 mA max.)
Use to switch components in your system on and off according to the input function of the receiver.

17 MULTI-ZONE and source outputs
Use to connect a second amplifier in a separate zone.

18 SIRIUS Radio input

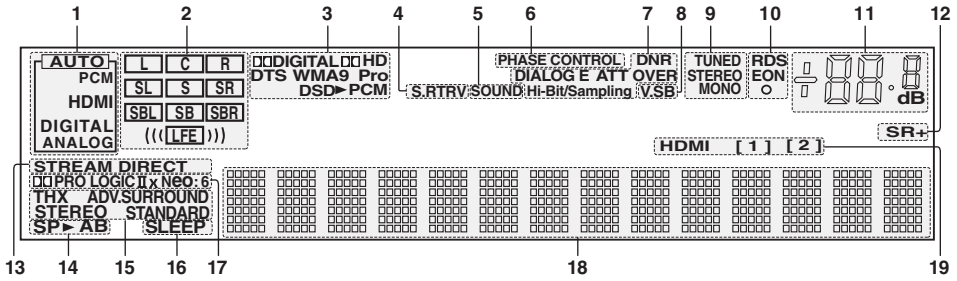
19 Speaker terminals
Use for connection to the main front, center, surround and surround back speakers.

20 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.

Note

1 If the video signal does not appear on your TV or plasma display, try adjusting the resolution settings on your component or display. Note that some components (such as video game units) have resolutions that may not be converted. In this case, use an (analog) S-video or composite connection.

● Display (VSX-LX50)



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 the DSD (Direct Stream Digital) to PCM conversion with SACDs).

4 S.RTRV
Lights when the Sound Retriever is switched on.

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

6 PHASE CONTROL
Lights when the Phase Control is switched on.

7 Sound processing indicators
Light according to the active AV parameter(s).

OVER lights to indicate that the level of an analog source is too high. **ATT** lights when you use the attenuator (**ANALOG ATT**) to reduce it.

8 V.SB
Lights during Virtual surround back processing.

9 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.

10 EON / RDS indicators
EON – Lights when the EON mode is set (flashes during EON reception). The ○ indicator lights when the current station carries the EON service.
RDS – Lights when an RDS broadcast is received.

11 Master volume level

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

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

14 Speaker indicators
Indicate the current speaker system, **A** and/or **B**.

15 Listening mode indicators
THX – Lights when a Home THX mode is selected.
ADV. SURROUND – Lights when an Advanced Surround mode has been selected.
STEREO – Lights when the stereo mode is selected.
STANDARD – Lights when a Standard Surround mode is switched on.

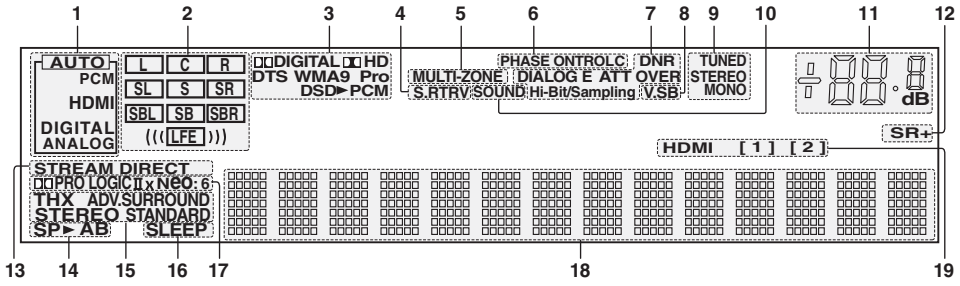
16 SLEEP
Lights when the receiver is in sleep mode.

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

18 Character display
Displays various system information.

19 HDMI connection indicators
Light to indicate the HDMI input currently selected.

● Display (VSX-91TXH/VSX-9120TXH-K)



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 the DSD (Direct Stream Digital) to PCM conversion with SACDs).

4 S.RTRV
Lights when the Sound Retriever is switched on.

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

6 PHASE CONTROL
Lights when the Phase Control is switched on.

7 Sound processing indicators
Light according to the active AV parameter(s).
OVER lights to indicate that the level of an analog source is too high. **ATT** lights when you use the attenuator (**ANALOG ATT**) to reduce it.

8 V.SB
Lights during Virtual surround back processing.

9 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.

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

11 Master volume level

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

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

14 Speaker indicators
Indicate the current speaker system, **A** and/or **B**.

15 Listening mode indicators
THX – Lights when a Home THX mode is selected.
ADV.SURROUND – Lights when an Advanced Surround mode has been selected.
STEREO – Lights when the stereo mode is selected.
STANDARD – Lights when a Standard Surround mode is switched on.

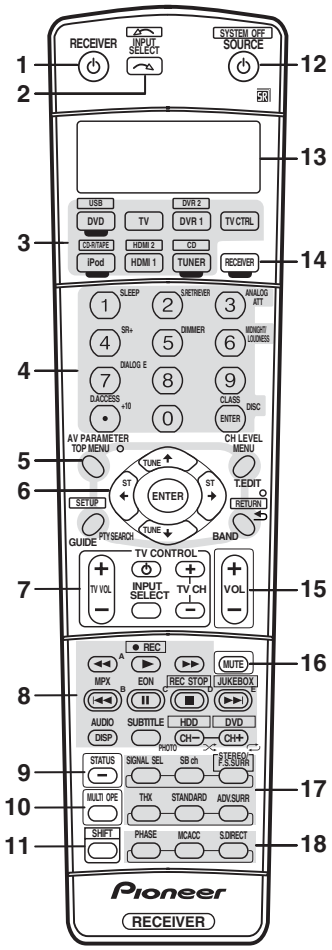
16 SLEEP
Lights when the receiver is in sleep mode.

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

18 Character display
Displays various system information.

19 HDMI connection indicators
Light to indicate the HDMI input currently selected.

● Remote Control (VSX-LX50)



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 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.

S.RETRIEVER – Press to restore CD quality sound to compressed audio sources.

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

SR+ – Switches the SR+ mode on/off.

DIMMER – Dims or brightens the display.

MIDNIGHT/LOUDNESS – Use Midnight when listening to movie soundtracks at low volume. Use Loudness to boost the bass and treble at low volume.

DIALOG E – Use to make dialog stand out when watching TV or a movie.

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.). The **BAND**,**T.EDIT** and **PTY SEARCH** tuner controls are explained. Press **RECEIVER** first to access the following controls:

AV PARAMETER – Use to access the AV options.

SETUP – Use to access the System Setup menu .

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

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 AV 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. Also used to display RDS information.

EON – Use to search for programs that are broadcasting traffic or news information.

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 – See Selecting preset codes directly

LEARNING – See Programming signals from other remote controls.

MULTI OP – See Multi Operation and System Off.

SYS OFF – See Multi Operation and System Off.

DIRECT F – See Direct function.

RENAME – See Renaming input source names.

ERASE – See Erasing one of the remote control button settings.

RESET – See Resetting the remote control presets.

READ ID – See Confirming preset codes.

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.

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.

SB ch – 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 Pro Logic IIx and Neo:6 options.

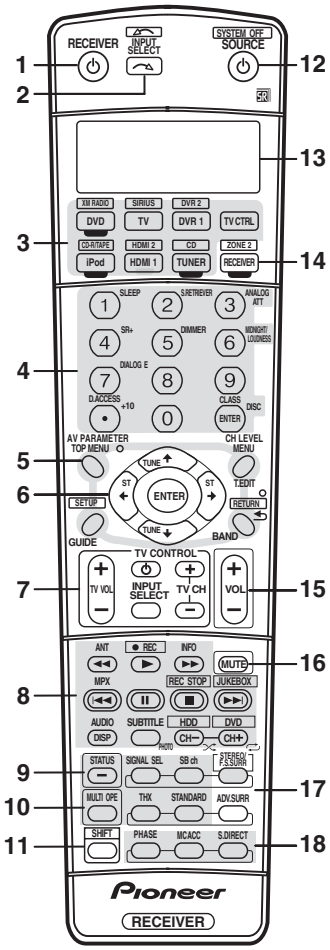
ADV.SURR – Use to switch between the various surround modes.

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

MCACC – Press to switch between MCACC presets.

S.DIRECT – Press to select the Auto Surround mode or the Stream Direct mode.
Stream Direct playback bypasses the tone controls and any other signal processing for the most accurate reproduction of a source.

● Remote Control (VSX-91TXH/VSX-9120TXH-K)



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- **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.

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

SR+ – Switches the SR+ mode on/off.

DIMMER – Dims or brightens the display.

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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.

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Press to check selected receiver settings.

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Use this button to perform multi operations.

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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.

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.

SB ch – 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.

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

MCACC – Press to switch between MCACC presets.

S.DIRECT – Press to select the Auto Surround mode or the Stream Direct mode.
Stream Direct playback bypasses the tone controls and any other signal processing for the most accurate reproduction of a source.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

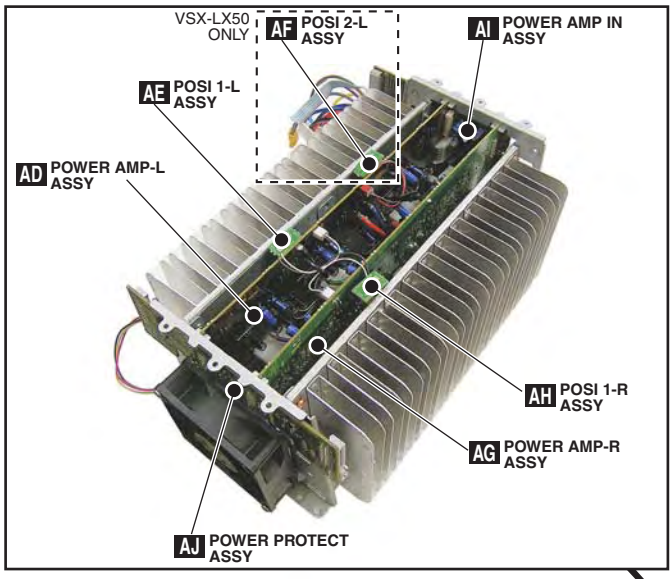
To keep the product quality after servicing, confirm recommended check points shown below.

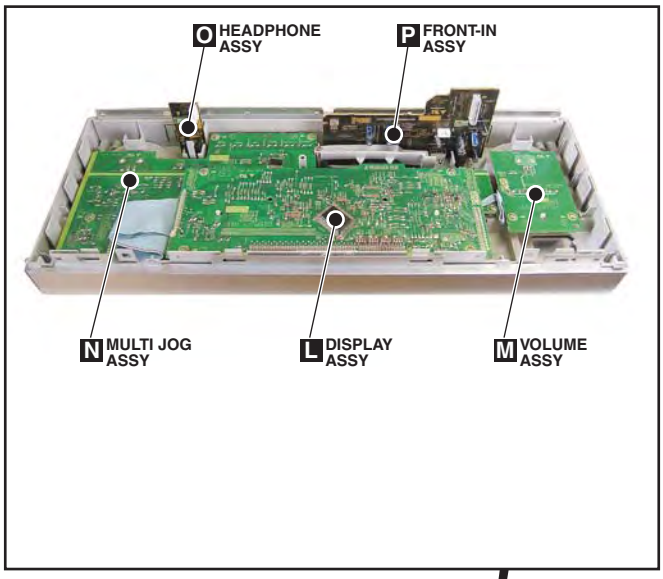
No.	Procedure	Check points
1	Confirm whether the customer complain has been solved. If the customer complain occurs with the particular source, such as Dolby Digital, DTS, AAC, DVD-A and HDMI, input it for the operation check.	The customer complain must not be reappeared. Video, Audio and operations 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.

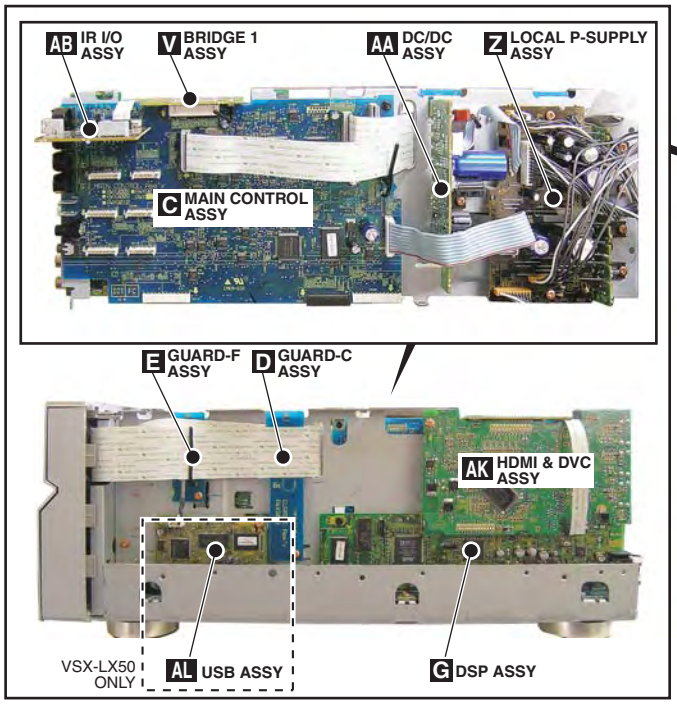
See the table below for the items to be checked regarding video and audio:

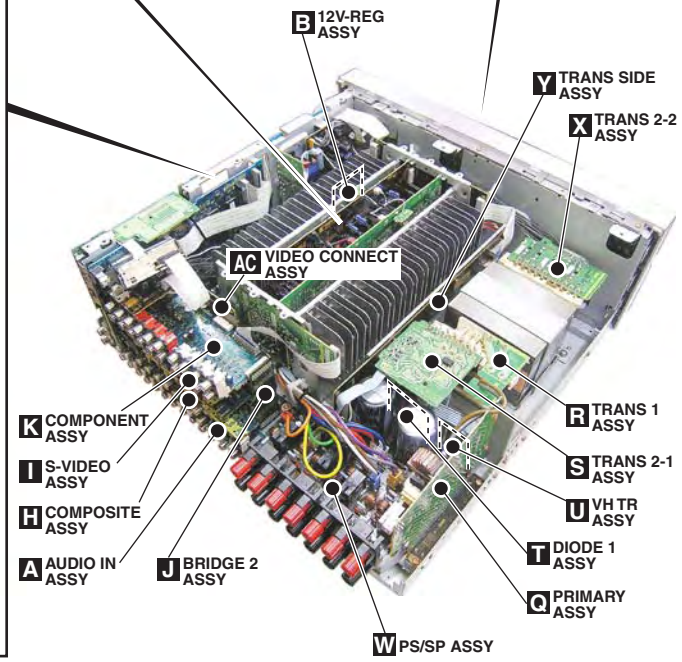
Items to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

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-LX50 /HYXJ5	VSX-91TXH /KUXJ/CA	VSX-9120TXH-K /KUXJ
NSP	1..MAIN ASSY	AWK7975	AWK7974	AWK7974
	2..MAIN CONTROL ASSY	AWX8817	AWX8816	AWX8816
	2..AUDIO IN ASSY	AWX8821	AWX8820	AWX8820
	2..12V-REG ASSY	AWX8824	AWX8824	AWX8824
	2..GUARD-C ASSY	AWX8826	AWX8826	AWX8826
	2..GUARD-F ASSY	AWX8825	AWX8825	AWX8825
	1..DSP ASSY	AWX8814	AWX8813	AWX8813
NSP	1..VIDEO ASSY	AWK7984	AWK7983	AWK7983
	2..COMPOSITE ASSY	AWX8842	AWX8841	AWX8841
	2..S-VIDEO ASSY	AWX8845	AWX8844	AWX8844
	2..COMPONENT ASSY	AWX8848	AWX8847	AWX8847
	2..BRIDGE 2 ASSY	AWX8850	AWX8850	AWX8850
NSP	1..COMPLEX ASSY	AWK8015	AWK8014	AWK8014
	2..PRIMARY ASSY	AWX9035	AWX9034	AWX9034
	2..TRANS 1 ASSY	AWX9038	AWX9038	AWX9038
	2..DISPLAY ASSY	AWX8874	AWX8873	AWX8873
	2..VOLUME ASSY	AWX9111	AWX9044	AWX9044
	2..MULTI JOG ASSY	AWX8880	AWX8879	AWX8879
	2..FRONT-IN ASSY	AWX8955	AWX8954	AWX8954
	2..HEADPHONE ASSY	AWX9049	AWX9049	AWX9049
NSP	1..SECONDARY ASSY	AWK7911	AWK7910	AWK7910
	2..PS/SP ASSY	AWX9107	AWX9052	AWX9052
	2..TRANS SIDE ASSY	AWX9056	AWX9056	AWX9056
	2..TRANS 2-1 ASSY	AWX9059	AWX9058	AWX9058
	2..DIODE 1 ASSY	AWX9060	AWX9060	AWX9060
	2..VH TR ASSY	AWX9061	AWX9061	AWX9061
	2..TRANS 2-2 ASSY	AWX9062	AWX9062	AWX9062
	2..LOCAL P-SUPPLY ASSY	AWX9064	AWX9063	AWX9063
	2..IR I/O ASSY	AWX9067	AWX9066	AWX9066
	2..VIDEO CONNECT ASSY	AWX9069	AWX9069	AWX9069
	2..DC/DC ASSY	AWX9015	AWX9015	AWX9015
	2..BRIDGE 1 ASSY	AWX9078	AWX9078	AWX9078
NSP	1..POWER AMP ASSY	AWK7920	AWK7919	AWK7919
	2..POWER AMP-L ASSY	AWX9072	AWX9071	AWX9071
	2..POWER AMP-R ASSY	AWX9073	AWX9106	AWX9106
	2..POWER AMP IN ASSY	AWX9075	AWX9075	AWX9075
	2..POWER PROTECT ASSY	AWX9077	AWX9076	AWX9076
	2..POSI 1-L ASSY	AWX9081	AWX9080	AWX9080
	2..POSI 2-L ASSY	AWX9082	Not used	Not used
	2..POSI 1-R ASSY	AWX9084	AWX9083	AWX9083
	1..HDMI & DVC ASSY	AWQ7040	AWQ7040	AWQ7040
	1..USB ASSY	AWX8866	Not used	Not used
	1..FM/AM TUNER UNIT	AXX7248	AXX7250	AXX7250

3.3 JIGS LIST

■ Jigs list

Name	Jig No.	Remarks
11P board to board extension jig cable	GGD1482	Diagonosis
13P board to board extension jig cable	GGD1483	Diagonosis
15P board to board extension jig cable	GGD1484	Diagonosis
21P board to board extension jig cable	GGD1485	Diagonosis
RS-232C I/F jig	GGF1348	Update the Flash ROMS
7-pin FFC	VDA1681	Update the Flash ROMS

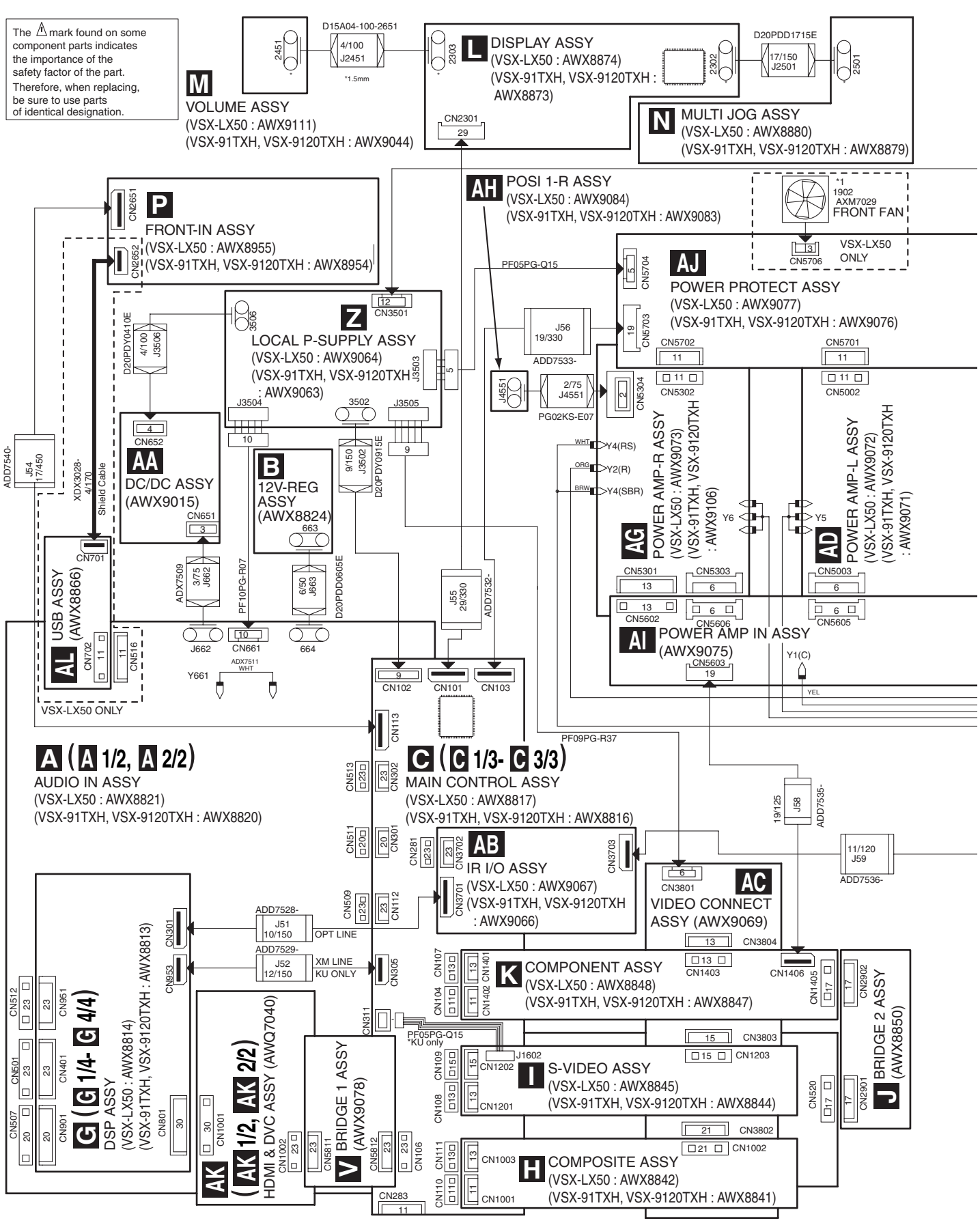
■ CLEANING

Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

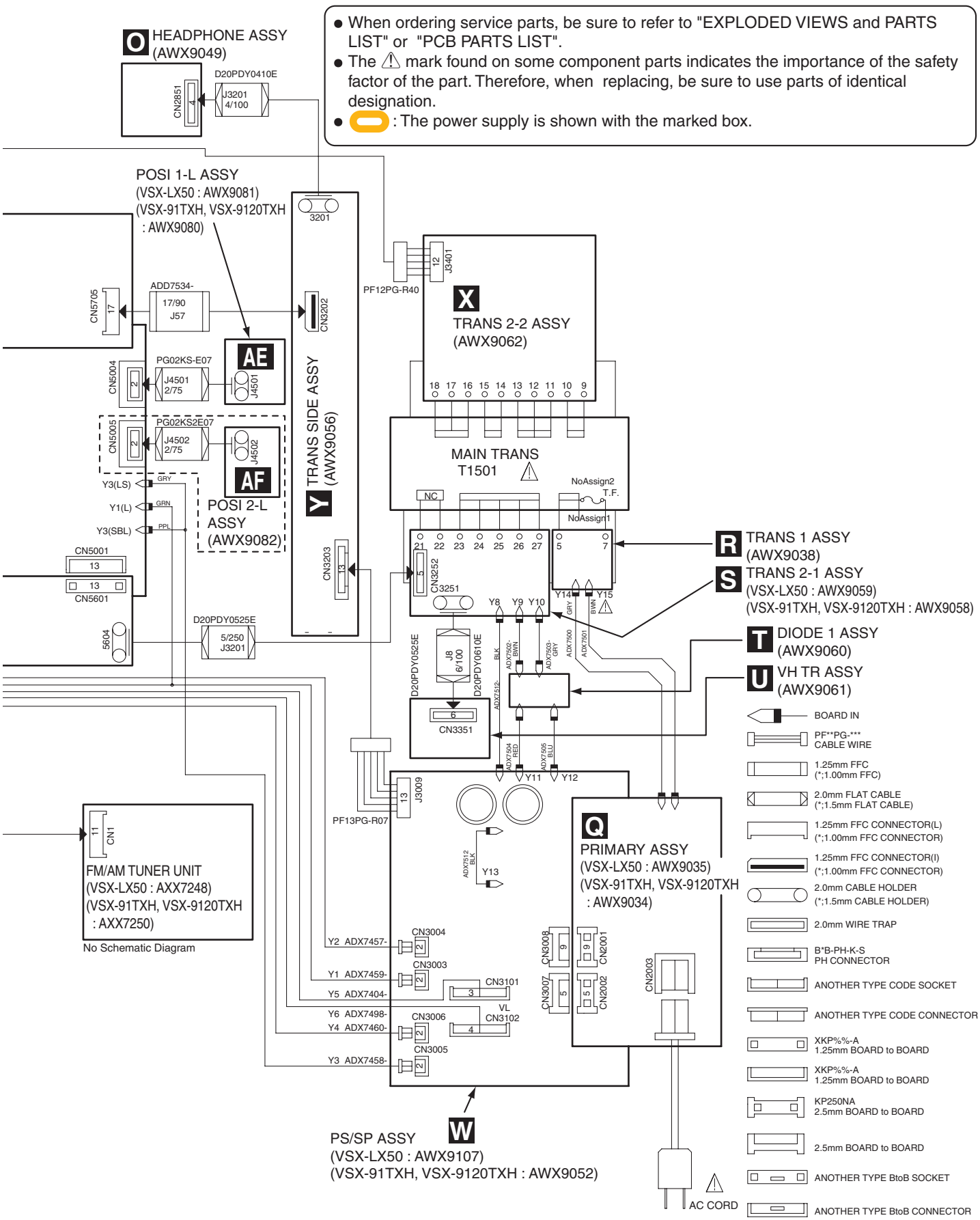
Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008

4. BLOCK DIAGRAM

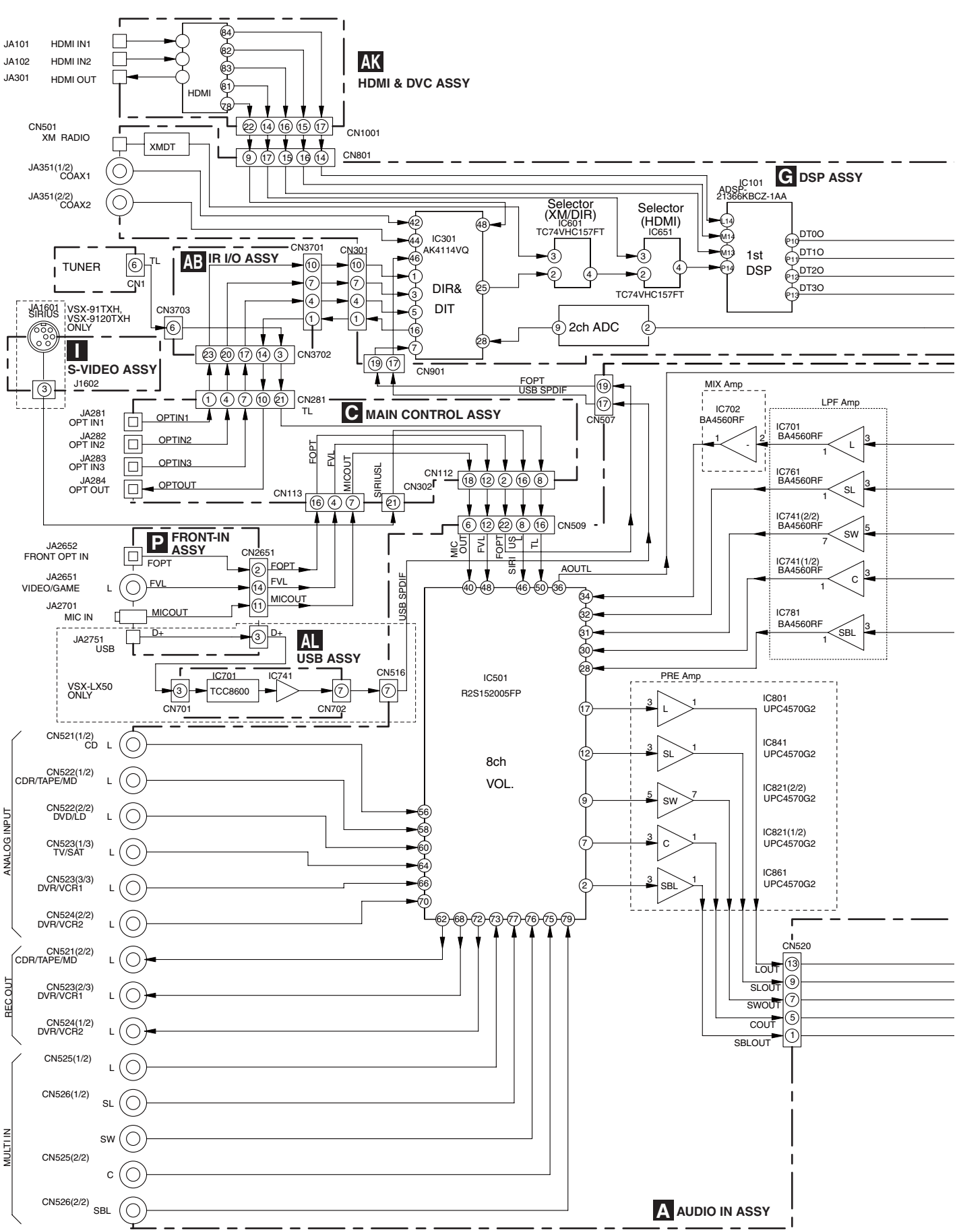
4.1 OVERALL WIRING DIAGRAM

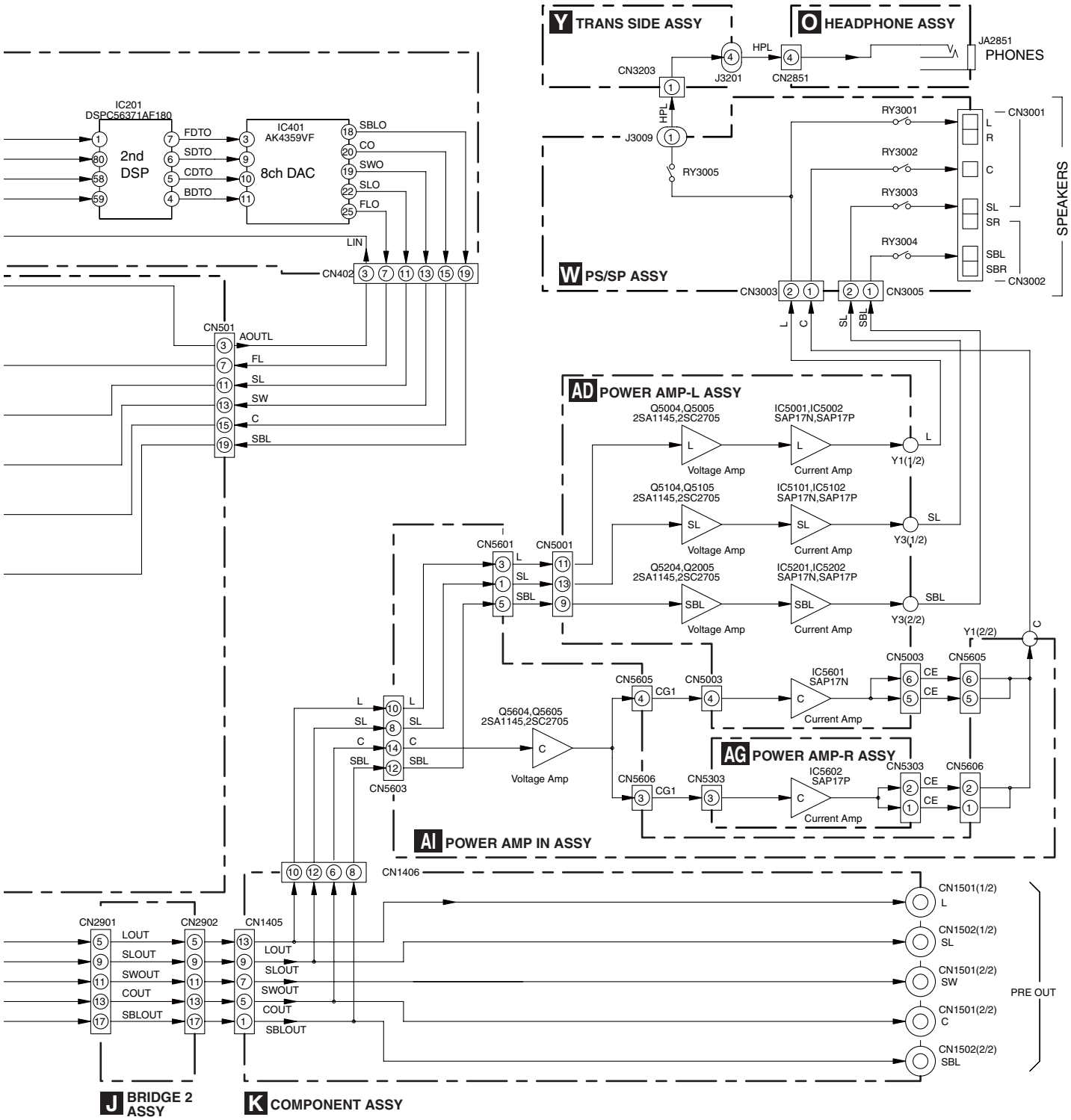


- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- ⬭ : The power supply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

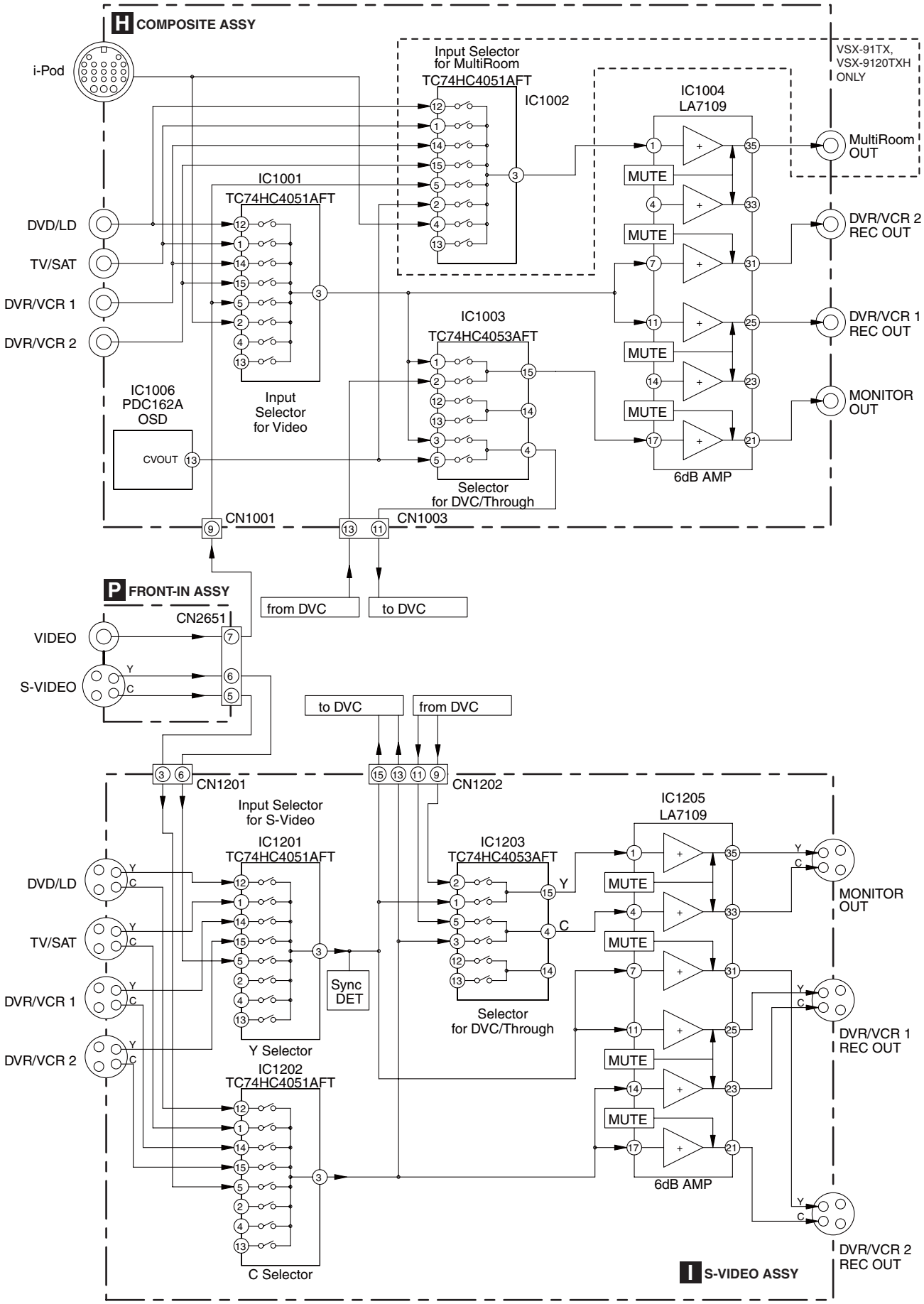


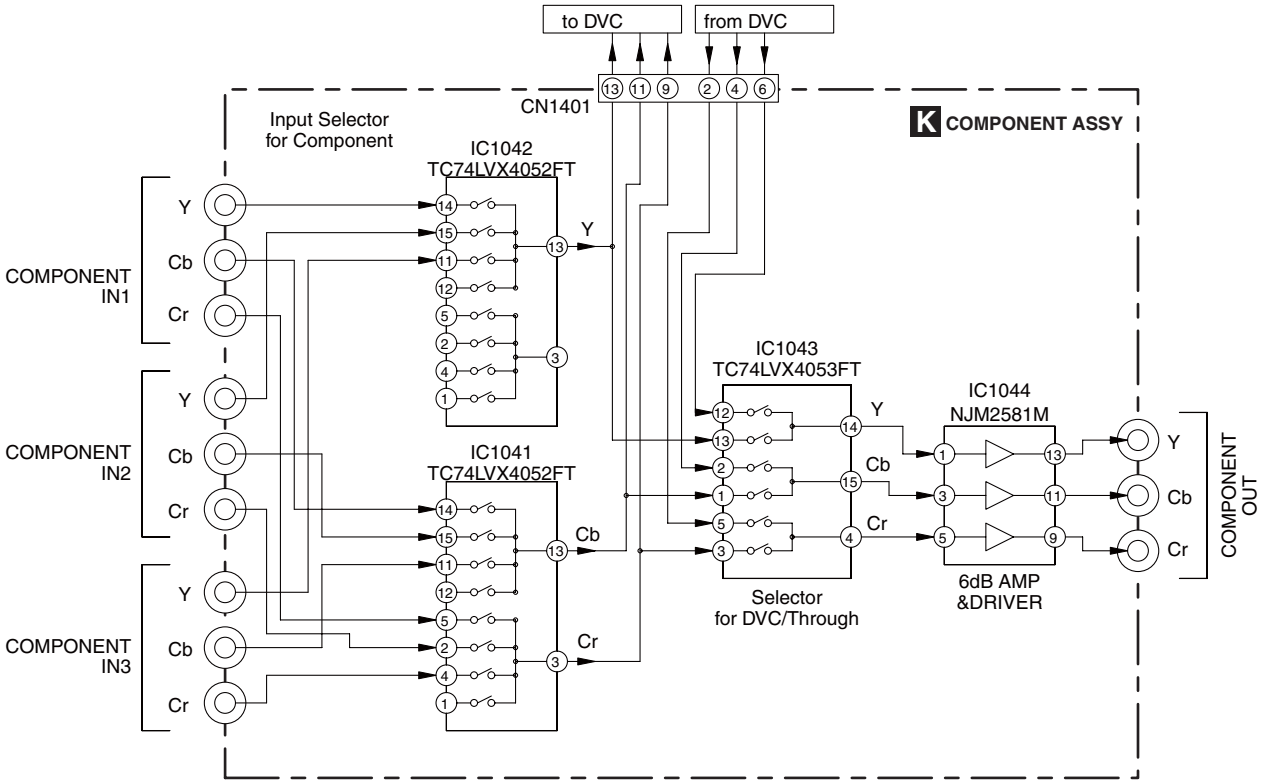
4.2 BLOCK DIAGRAM for AUDIO BLOCK




Y TRANS SIDE ASSY
O HEADPHONE ASSY
JA2851
PHONES
CN3203
J3201
HPL
CN2851
J3009
RY3005
RY3001
RY3002
RY3003
RY3004
CN3001
CN3002
SPEAKERS
W PS/SP ASSY
CN3003
CN3005
IC201
DSPC56371AF180
2nd
DSP
IC401
AK4359VF
8ch DAC
FDTO
SDTO
CDTO
BDTO
SBLO
CO
SWO
SLO
FLO
LIN
CN402
CN501
AOUTL
FL
SL
SW
C
SBL
AD POWER AMP-L ASSY
Q5004,Q5005
2SA1145,2SC2705
IC5001,IC5002
SAP17N,SAP17P
Voltage Amp
Current Amp
Y1(1/2)
Q5104,Q5105
2SA1145,2SC2705
IC5101,IC5102
SAP17N,SAP17P
Y3(1/2)
Q5204,Q5205
2SA1145,2SC2705
IC5201,IC5202
SAP17N,SAP17P
Y3(2/2)
Y1(2/2)
CN5601
CN5001
CN5605
CN5003
CG1
IC5601
SAP17N
CE
Q5604,Q5605
2SA1145,2SC2705
CN5603
AG POWER AMP-R ASSY
CN5606
CN5303
IC5602
SAP17P
AI POWER AMP IN ASSY
CN1406
CN2901
CN2902
CN1405
LOUT
SLOUT
SWOUT
COUT
SBLOUT
CN1501(1/2)
CN1502(1/2)
CN1501(2/2)
CN1502(2/2)
PRE OUT
J BRIDGE 2
ASSY
K COMPONENT ASSY

4.3 BLOCK DIAGRAM for VIDEO BLOCK




to DVC
from DVC
CN1401
13 11 9 2 4 6
K COMPONENT ASSY
Input Selector
for Component
IC1042
TC74LVX4052FT
IC1041
TC74LVX4052FT
IC1043
TC74LVX4053FT
IC1044
NJM2581M
COMPONENT
IN1
COMPONENT
IN2
COMPONENT
IN3
Y
Cb
Cr
Selector
for DVC/Through
6dB AMP
&DRIVER
COMPONENT
OUT

5. DIAGNOSIS

5.1 DIAGNOSIS FLOWCHART

5.1.1 DSP TROUBLESHOOTING

■ Simplified diagnosis

Herein is described how to easily diagnose a defective part in the DSP Assy, only with operations of the main unit.

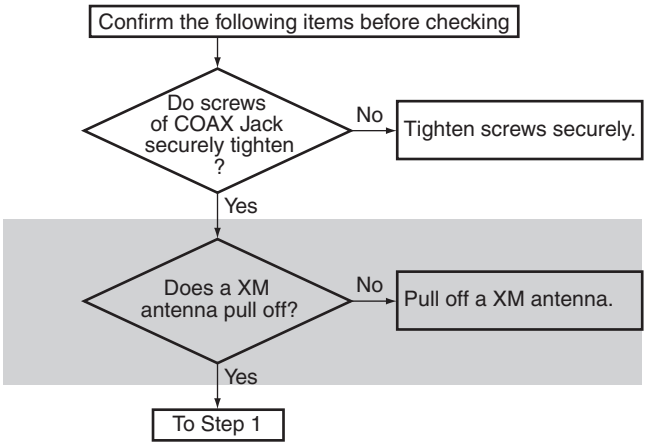
Errors in DSP Assembly (Areas simply and roughly predictable by machine operation only)

- Sound abnormality in phase control
  If sound abnormality does not occur in the phase-control OFF state but occurs in the phase-control ON state, it is most likely that a failure has occurred in SPAM (IC107), LATCH (IC103) or DECODER IC (IC105) in the 1st DSP Block.
- No sound at analog signal input
  If sound abnormality does not occur with a digital signal input (COAX, OPT) but occurs only with an analog signal input, it is most likely that a failure has occurred in the AD converter (IC481).

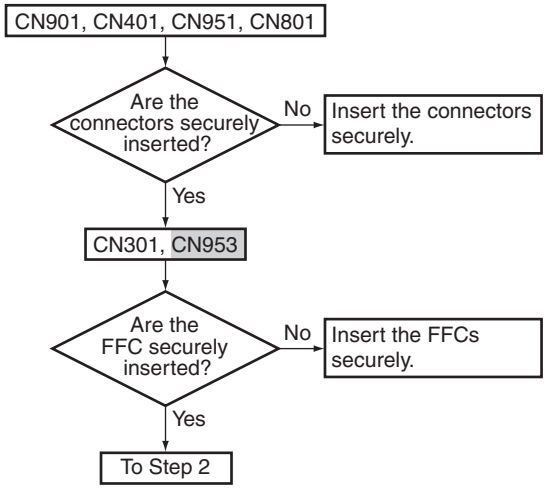
■ Troubleshooting

- It is assumed that there is no loose connection or damage in the LCRs.
- : KUXJ and KUXJ/CA types only

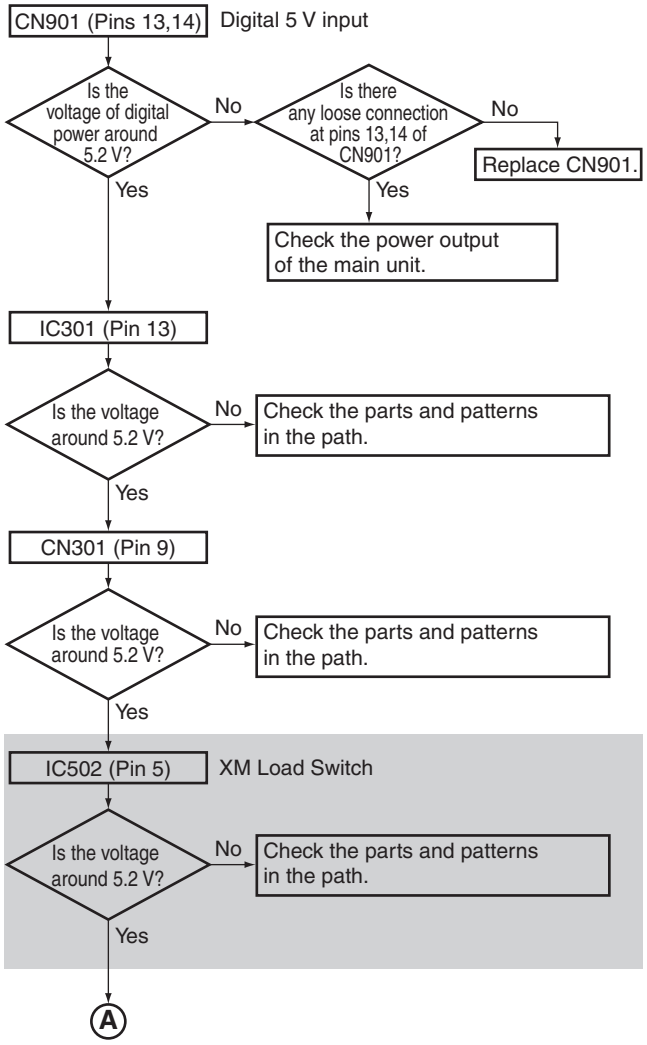
Step 0: Preliminary confirmation



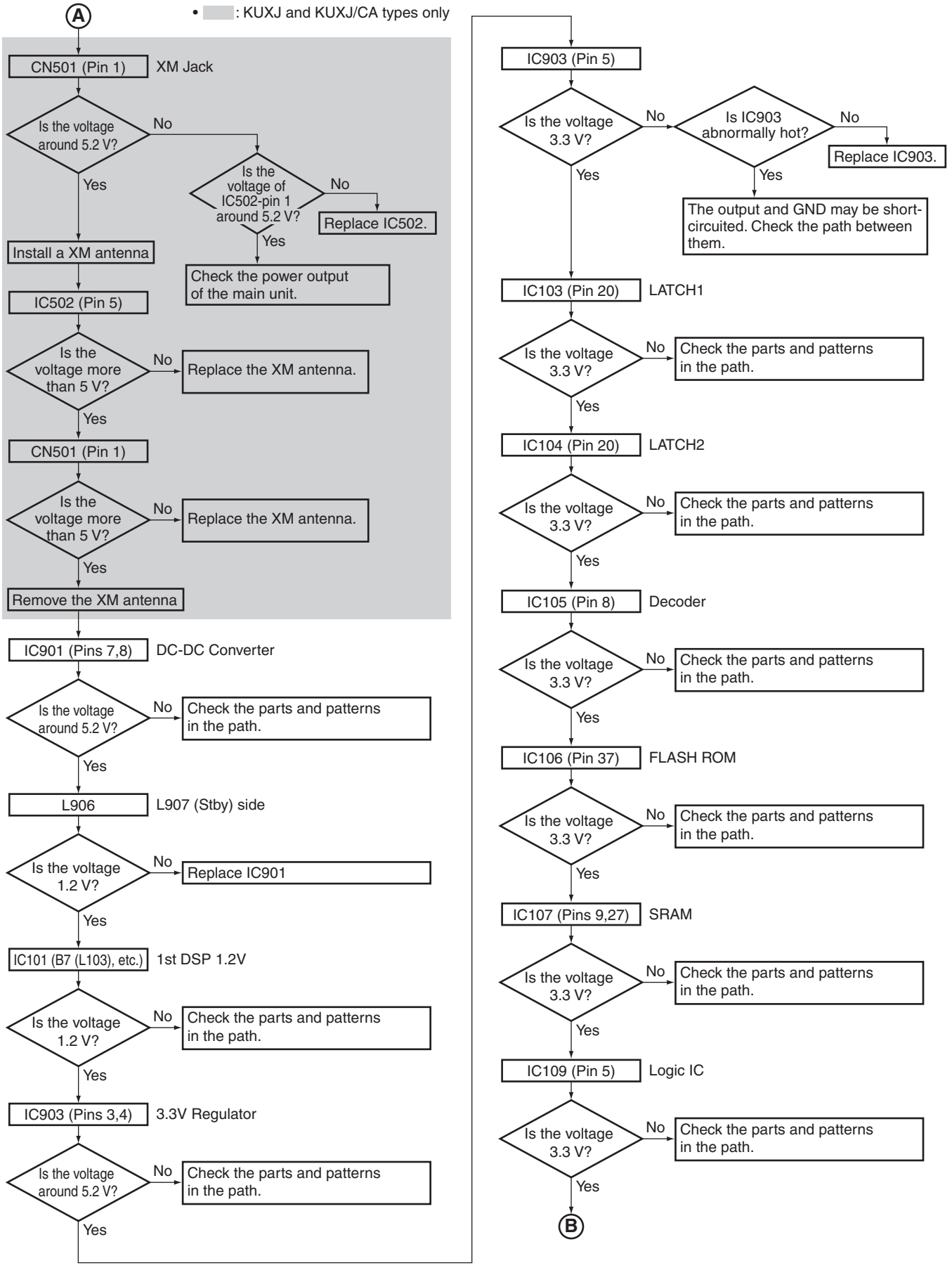
Step 1: Connections

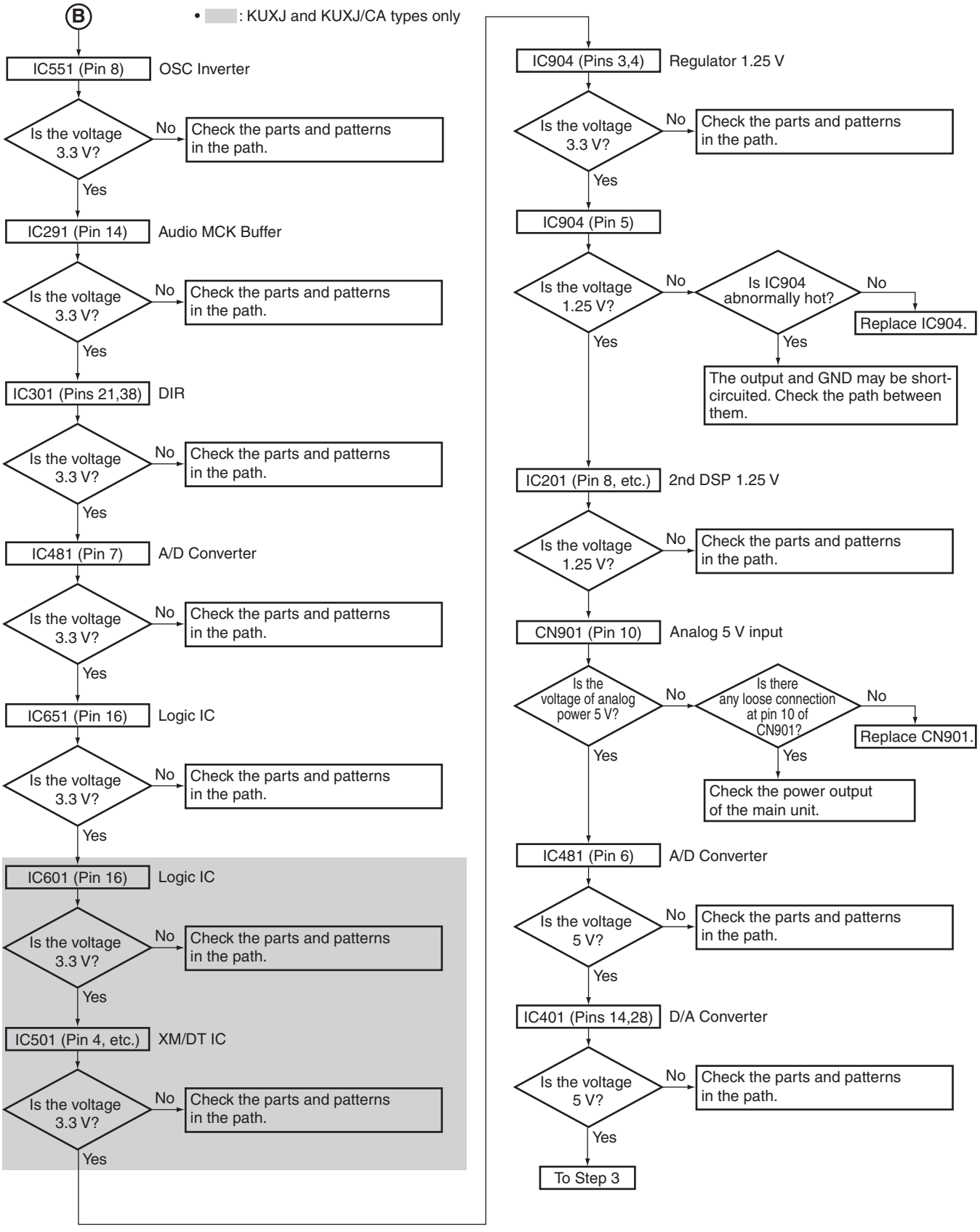


Step 2: Power supply



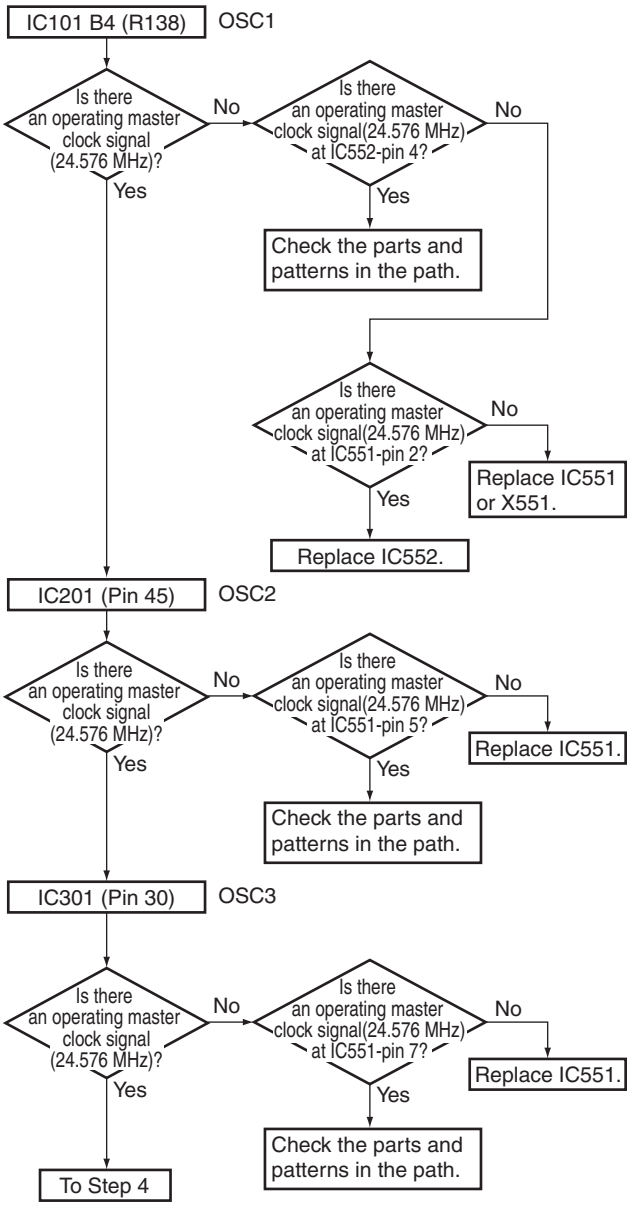
• : KUXJ and KUXJ/CA types only




B
• : KUXJ and KUXJ/CA types only
IC551 (Pin 8)
OSC Inverter
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC291 (Pin 14)
Audio MCK Buffer
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC301 (Pins 21,38)
DIR
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC481 (Pin 7)
A/D Converter
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC651 (Pin 16)
Logic IC
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC601 (Pin 16)
Logic IC
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC501 (Pin 4, etc.)
XM/DT IC
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC904 (Pins 3,4)
Regulator 1.25 V
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC904 (Pin 5)
Is the voltage 1.25 V?
No
Is IC904 abnormally hot?
No
Replace IC904.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
IC201 (Pin 8, etc.)
2nd DSP 1.25 V
Is the voltage 1.25 V?
No
Check the parts and patterns in the path.
CN901 (Pin 10)
Analog 5 V input
Is the voltage of analog power 5 V?
No
Is there any loose connection at pin 10 of CN901?
No
Replace CN901.
Yes
Check the power output of the main unit.
Yes
IC481 (Pin 6)
A/D Converter
Is the voltage 5 V?
No
Check the parts and patterns in the path.
Yes
IC401 (Pins 14,28)
D/A Converter
Is the voltage 5 V?
No
Check the parts and patterns in the path.
Yes
To Step 3

Step 3: Operating Master Clock

• : KUXJ and KUXJ/CA types only



Step 4: Audio Clock (Until Switch)

- When a sound is not out with the digital (COAX, OPT IN) signal input. → Go to Step 4-1
- When a sound is not out with the analog signal input. → Go to Step 4-2
- When a sound is not out with the HDMI. (It is assumed that failure diagnosis of HDMI Assy has been completed.)

(I2S path)
When the source is “dts HD Master Audio”, “Dolby True HD”, “PCM or LPCM at or above the sampling rate of 88.2kHz” or “LPCM Multi ch”. → Go to Step 4-3-1

(S/PDIF path)
When the source is “dts HD High Resolution Audio”, “dts HD LBR”, “Dolby Digital Plus”, “2ch at or below the sampling rate of 48kHz), or “other compression streams”. → Go to Step 4-1

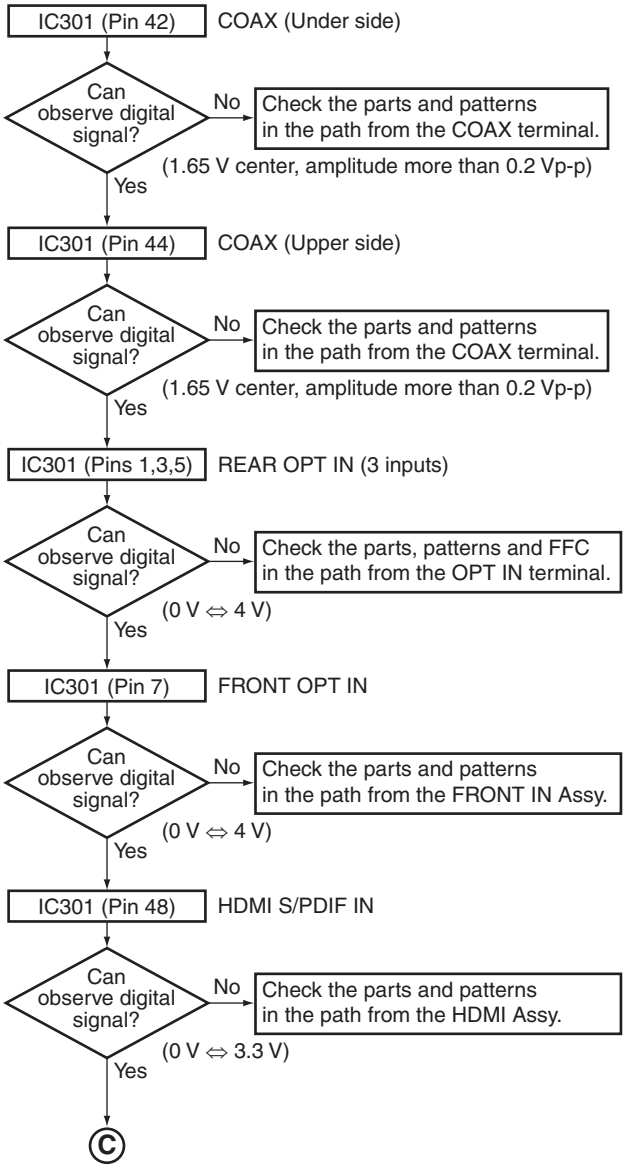
(DSD)
When the source is SACD. → Go to Step 4-3-3

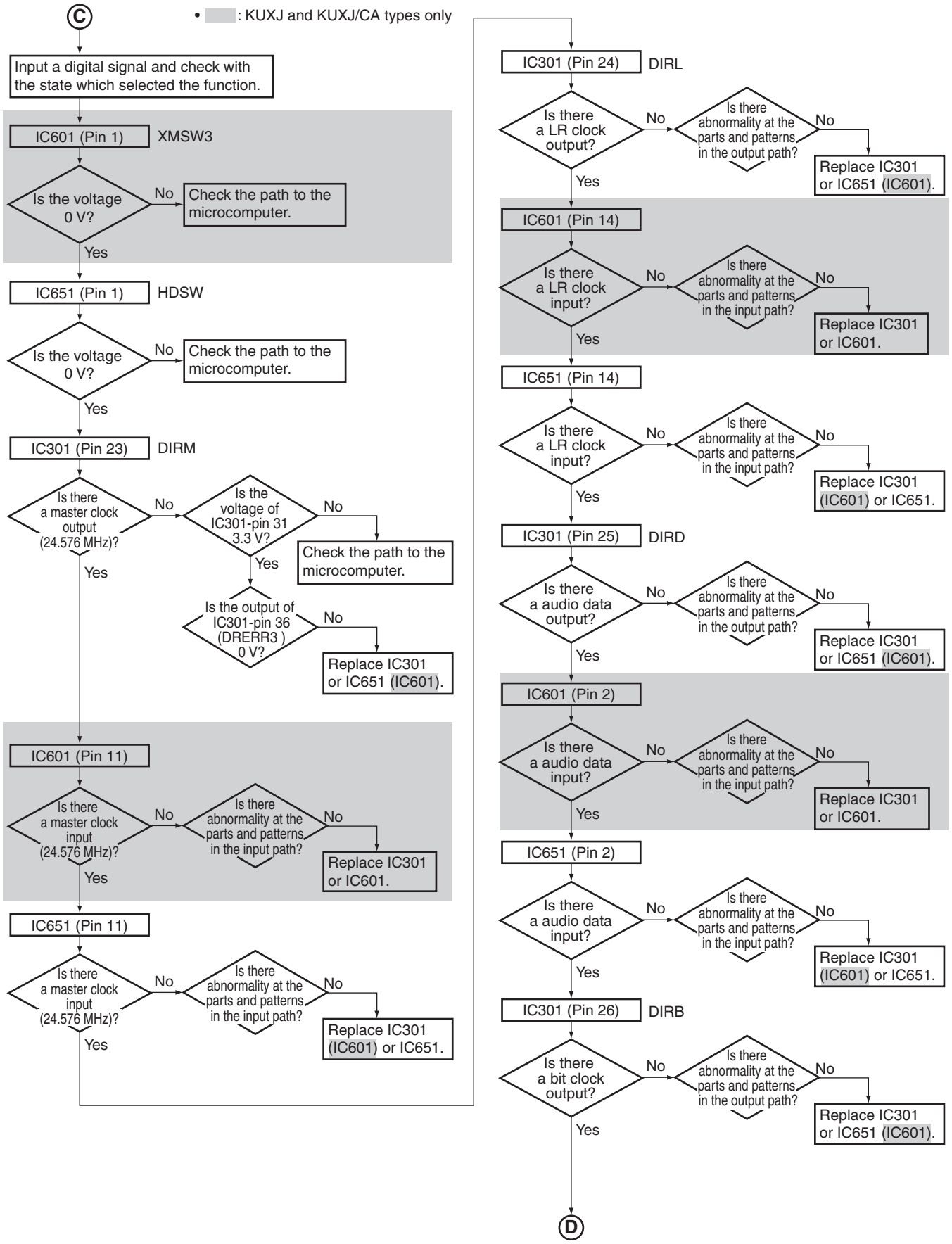
- When a sound is not out with the XM Radio. → Go to Step 4-4
- When a sound is not out with the USB (It is assumed that the failure diagnosis of USB Assy has been completed.) → Go to Step 4-5

except KU models

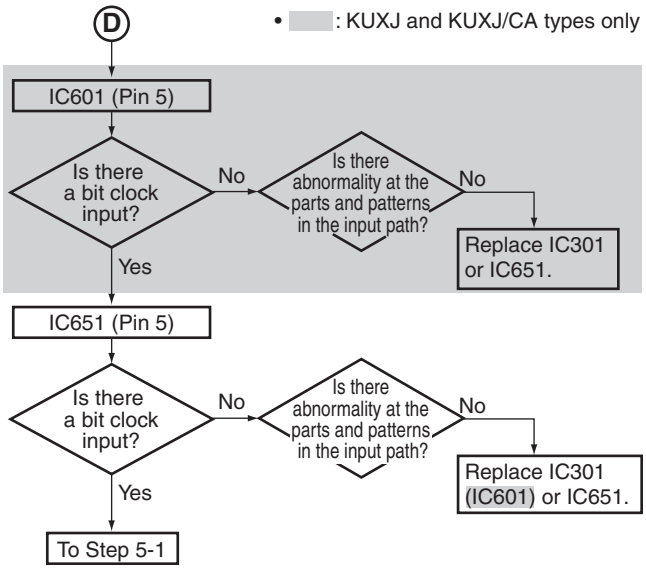
Step 4-1: When a sound is not out with the digital (COAX, OPT IN) signal input

When the source in the digital (COAX, OPT IN) or the HDMI path is “dts HD High Resolution Audio”, “dts HD LBR”, “Dolby Digital Plus”, “2ch at or below the sampling rate of 48kHz” or “other compression streams”.
Check that changes by pulling out and inserting the digital input lines. (Function is able to change the assignment. Therefore it is not specified.)

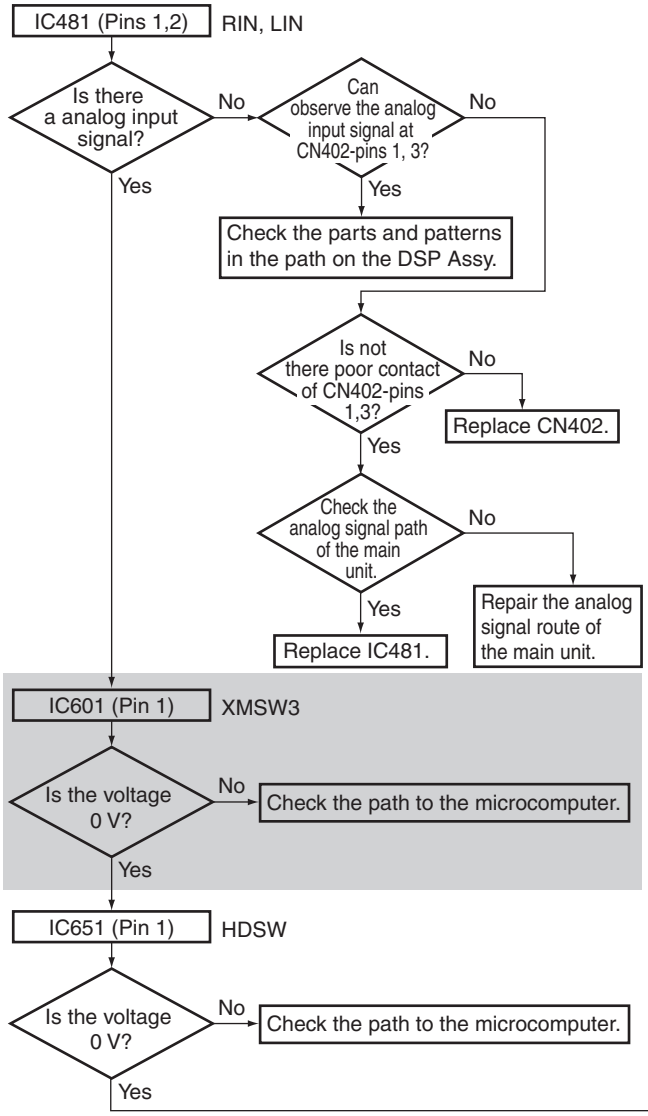


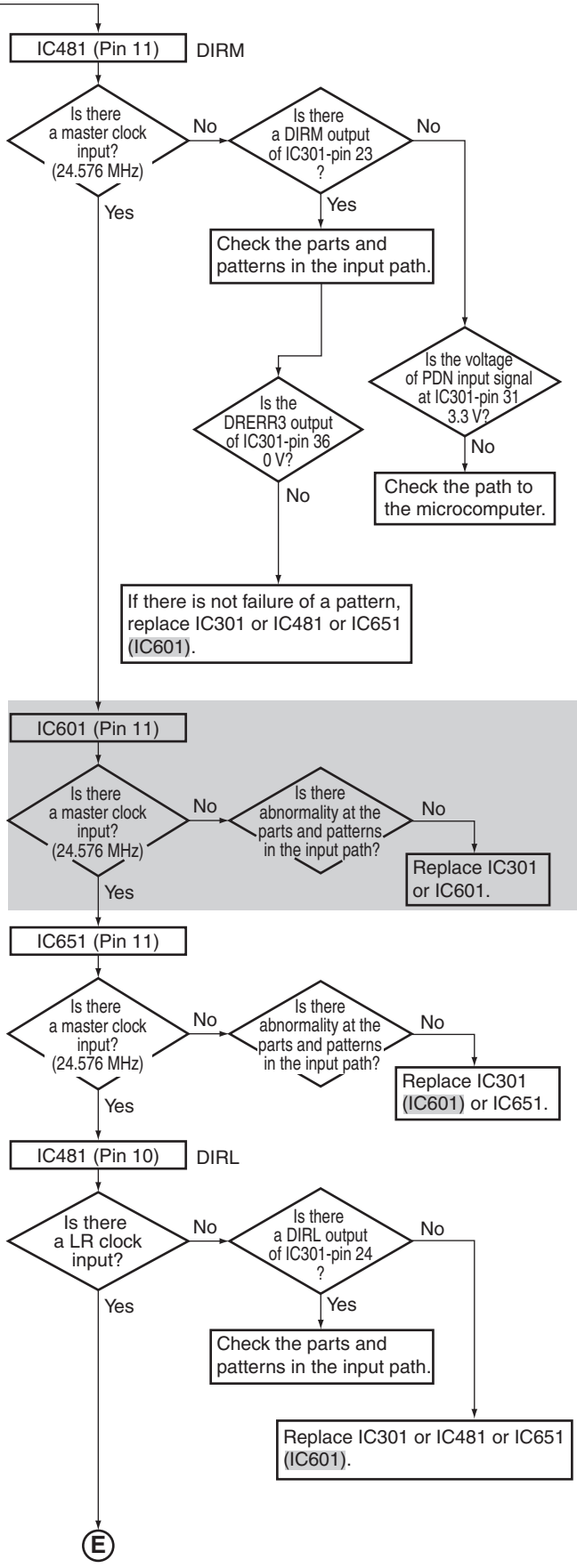

C
• : KUXJ and KUXJ/CA types only
Input a digital signal and check with the state which selected the function.
IC601 (Pin 1)
XMSW3
Is the voltage 0 V?
No
Check the path to the microcomputer.
Yes
IC651 (Pin 1)
HDSW
Is the voltage 0 V?
No
Check the path to the microcomputer.
Yes
IC301 (Pin 23)
DIRM
Is there a master clock output (24.576 MHz)?
No
Is the voltage of IC301-pin 31 3.3 V?
No
Check the path to the microcomputer.
Yes
Is the output of IC301-pin 36 (DRERR3) 0 V?
No
Replace IC301 or IC651 (IC601).
Yes
IC601 (Pin 11)
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC601.
Yes
IC651 (Pin 11)
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
IC301 (Pin 24)
DIRL
Is there a LR clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC301 or IC651 (IC601).
Yes
IC601 (Pin 14)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC601.
Yes
IC651 (Pin 14)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
IC301 (Pin 25)
DIRD
Is there a audio data output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC301 or IC651 (IC601).
Yes
IC601 (Pin 2)
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC601.
Yes
IC651 (Pin 2)
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
IC301 (Pin 26)
DIRB
Is there a bit clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC301 or IC651 (IC601).
Yes
D

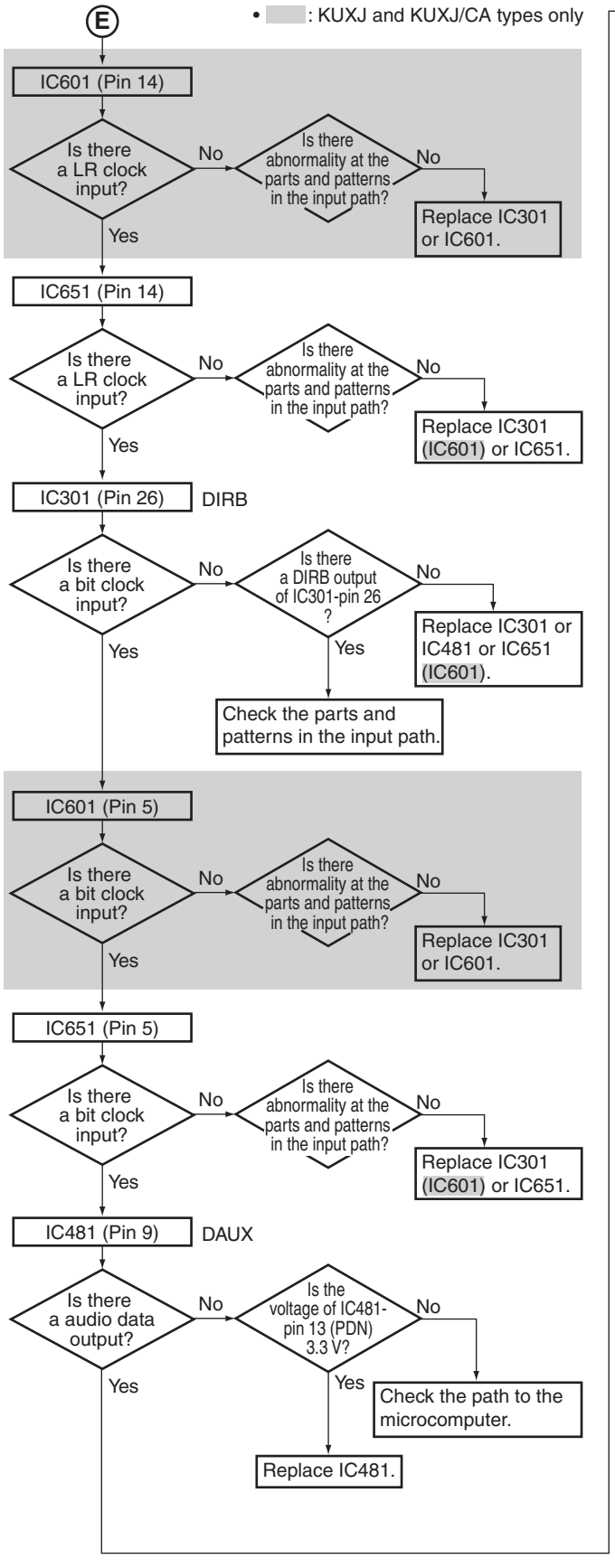
• : KUXJ and KUXJ/CA types only



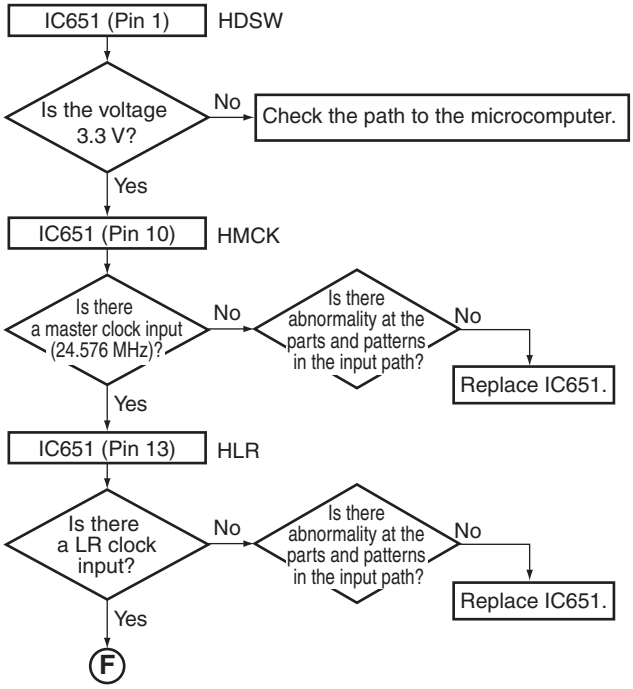
Step 4-2: When a sound is not out with the analog signal input



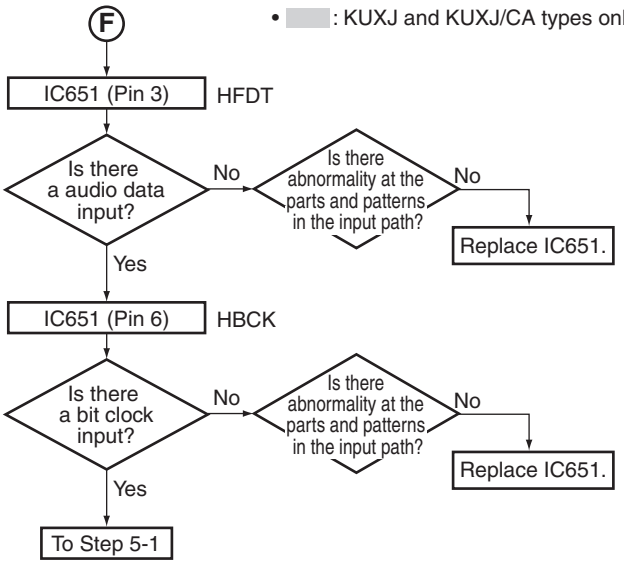




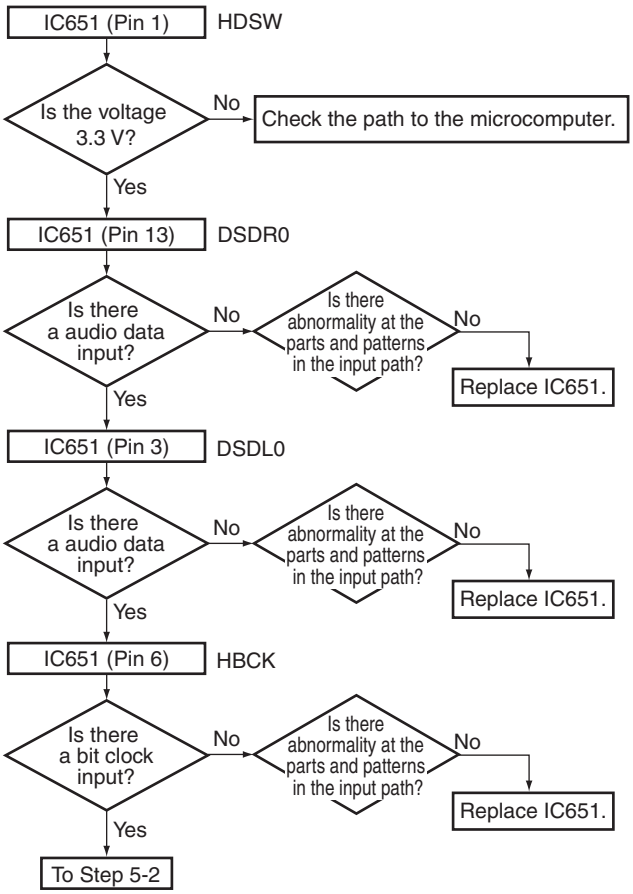
Step 4-3-1: When a sound is not out with the HDMI (When the source is “dts HD Master Audio”, “Dolby True HD”, “PCM or LPCM at or above the sampling rate of 88.2kHz” or “LPCM Multi ch”)



• : KUXJ and KUXJ/CA types only

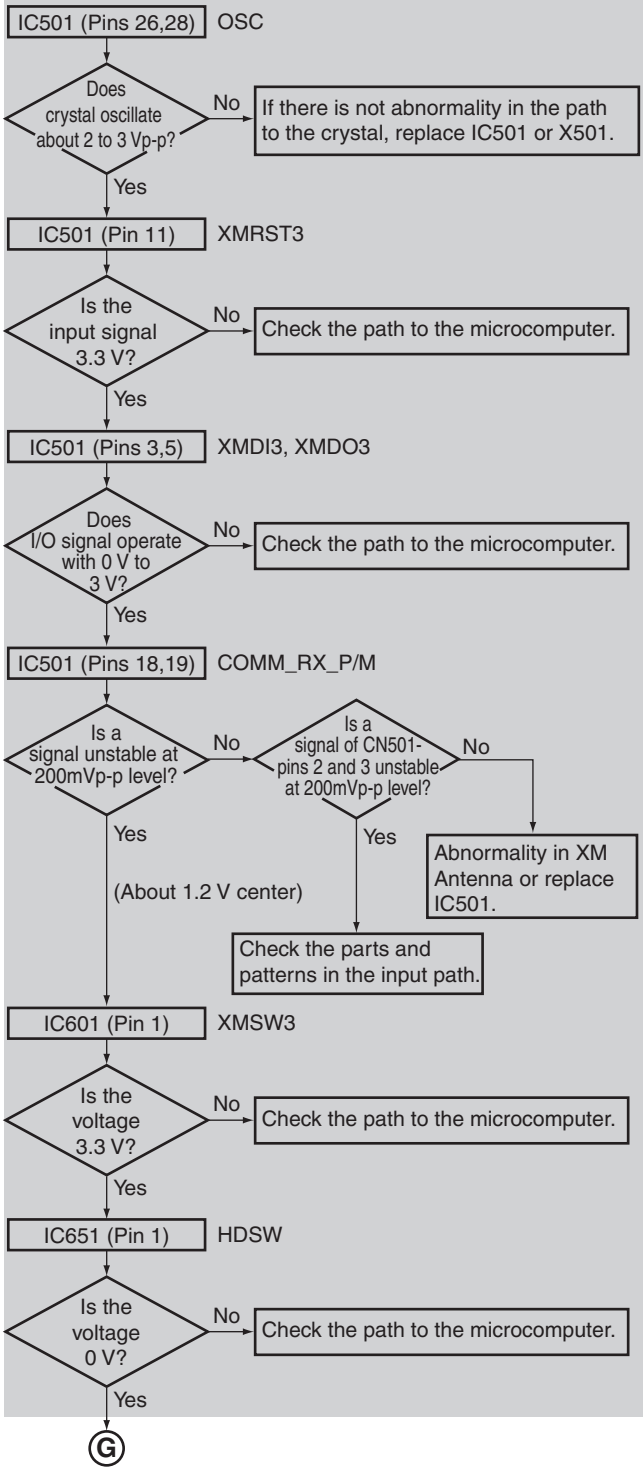


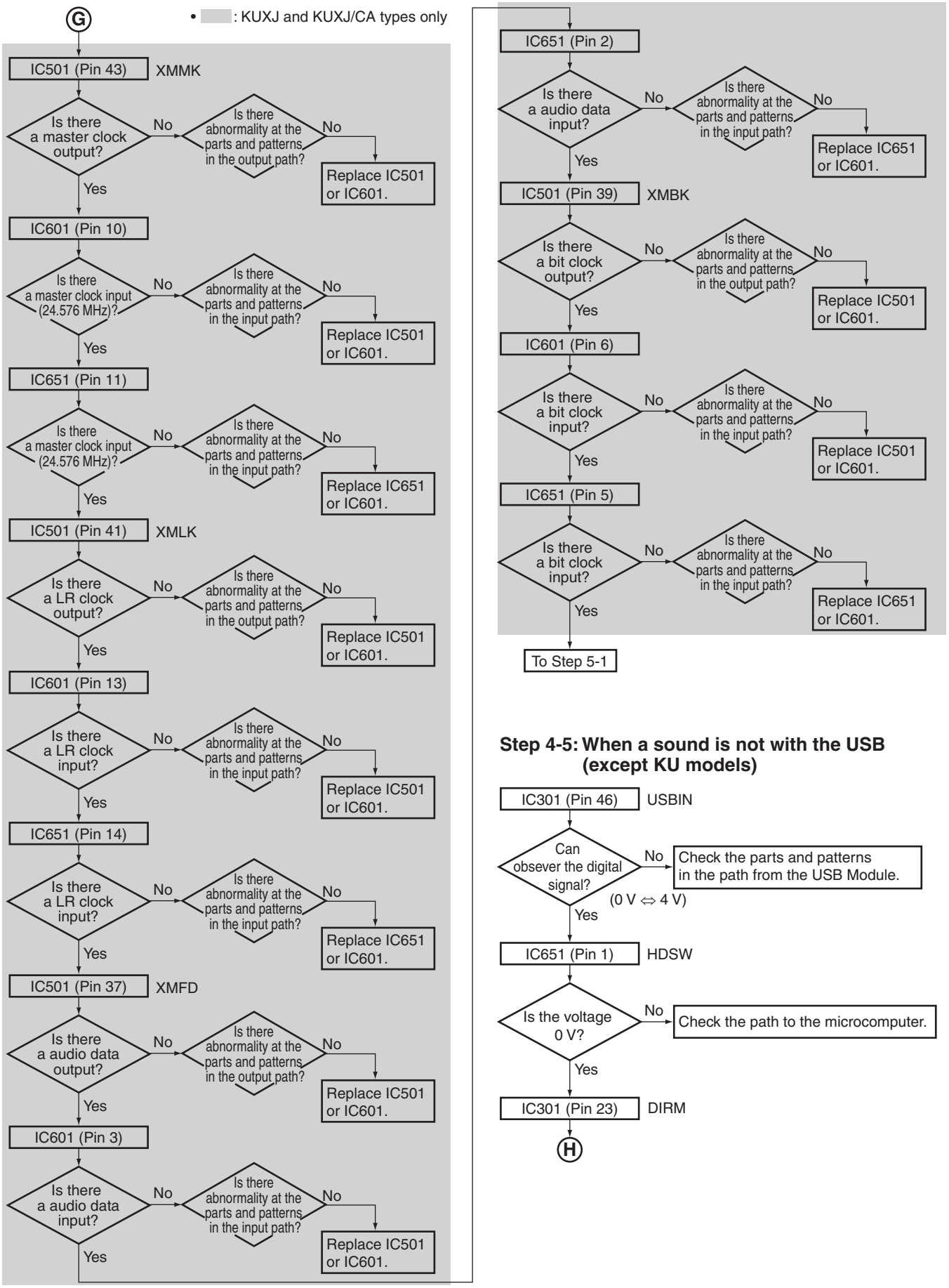
Step 4-3-2: When a sound is not out with the HDMI (When the source is SACD)



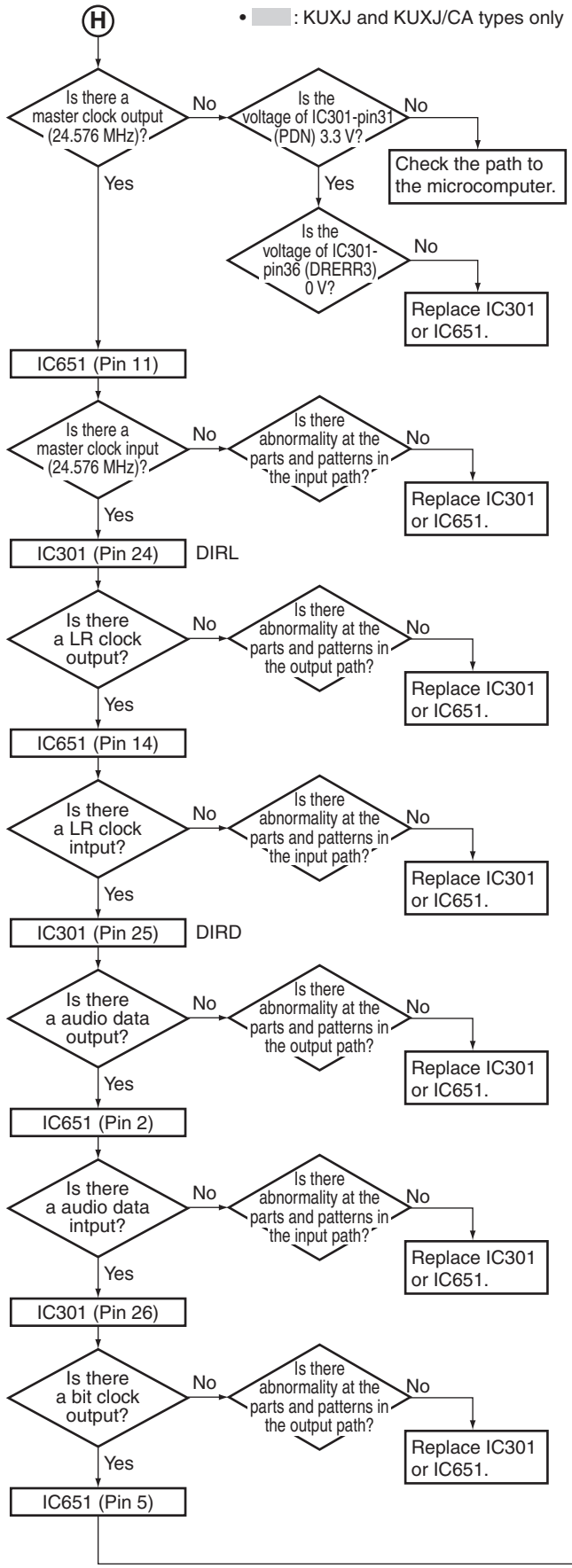
Step 4-4: When a sound is not out with the XM Radio

Insert the XM Antenna and check it.

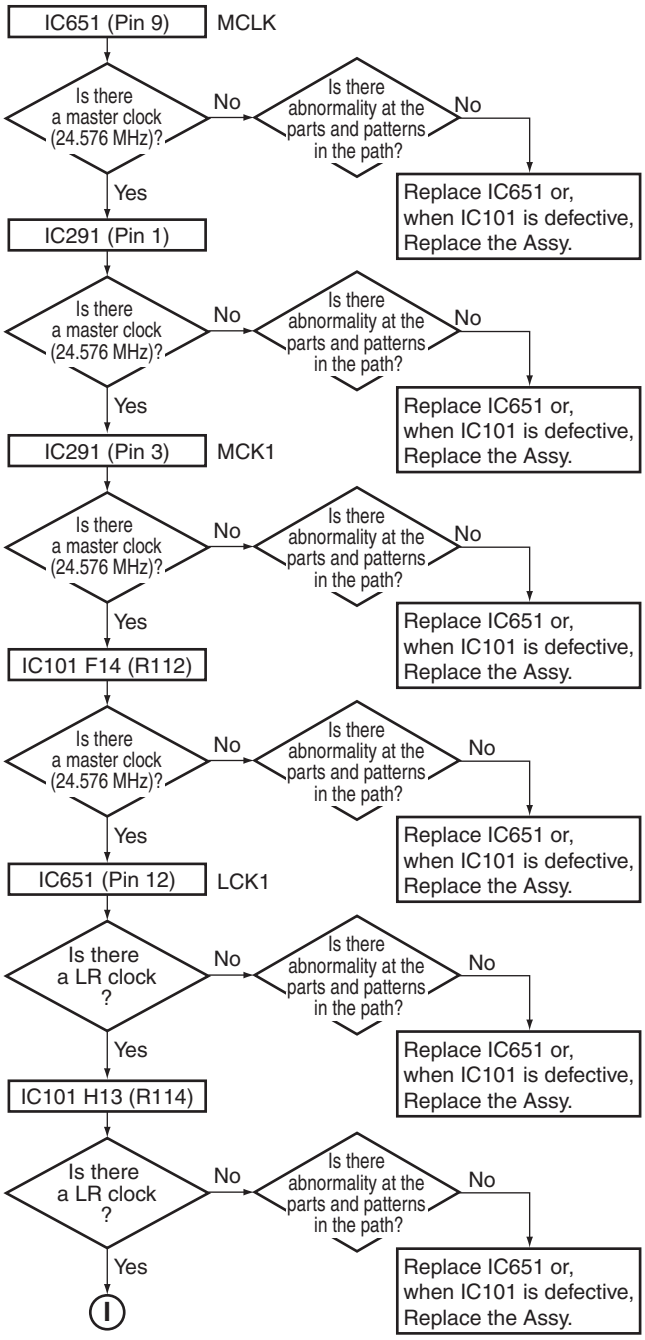


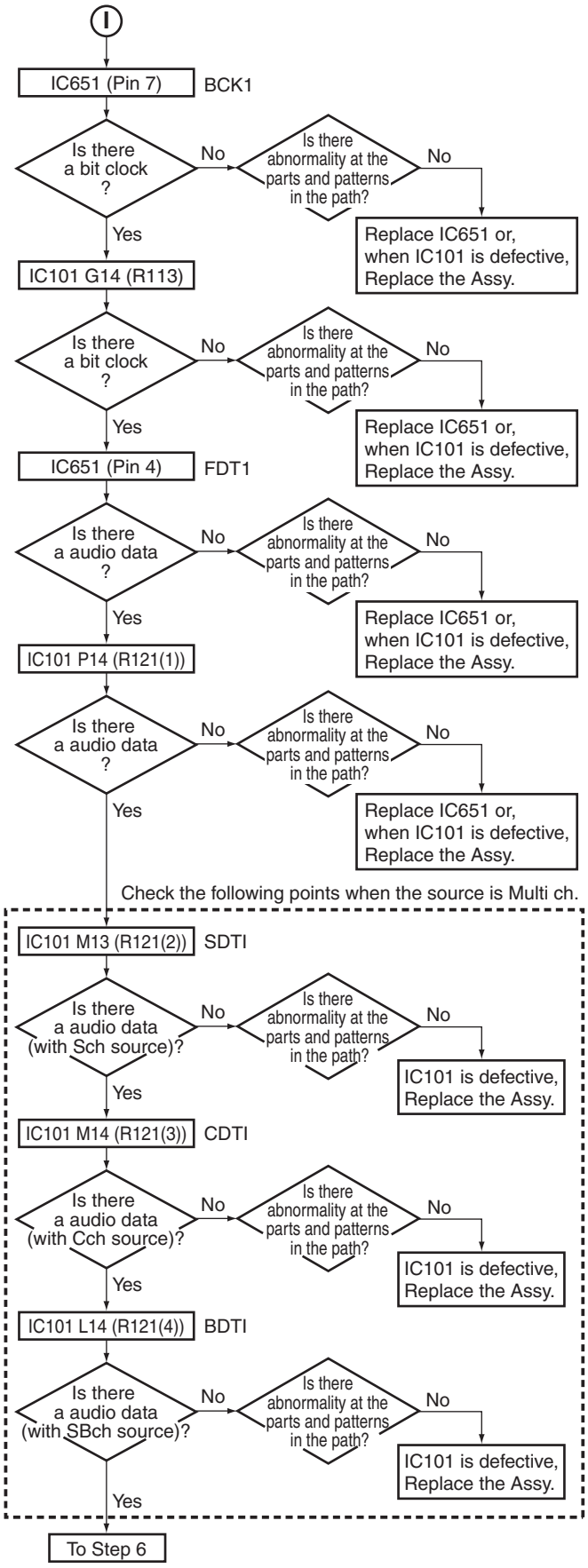


Step 4-5: When a sound is not with the USB (except KU models)

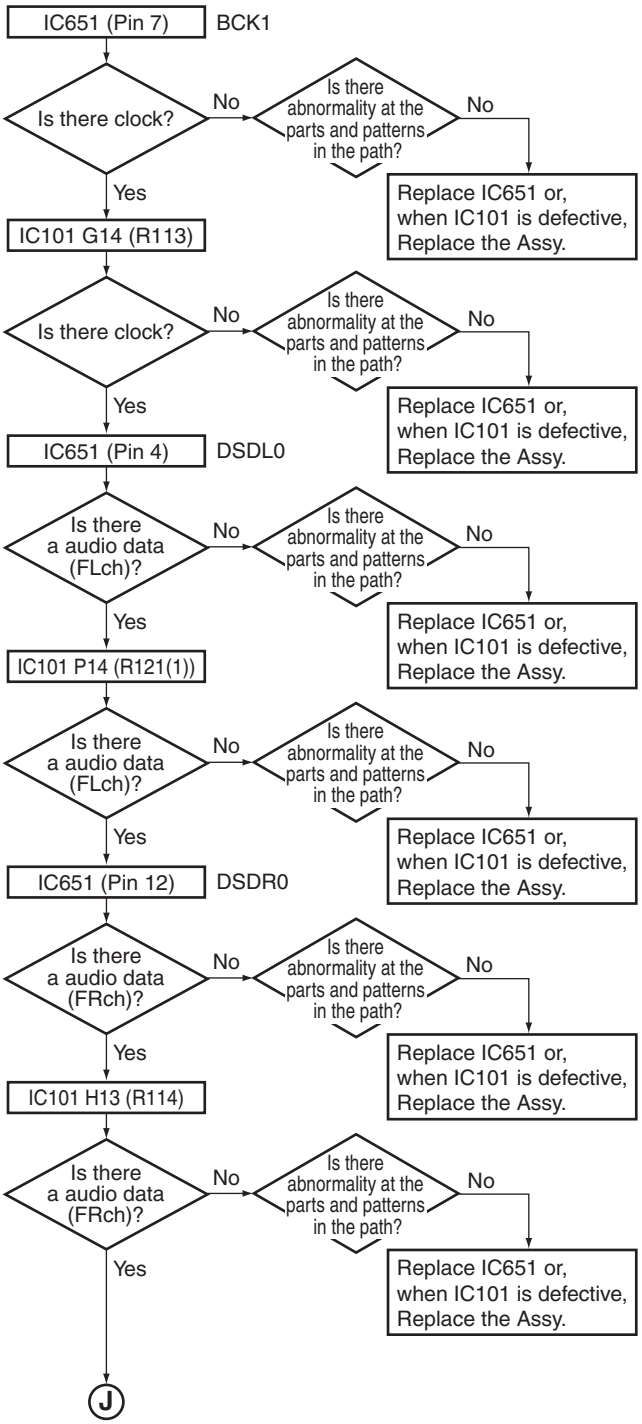


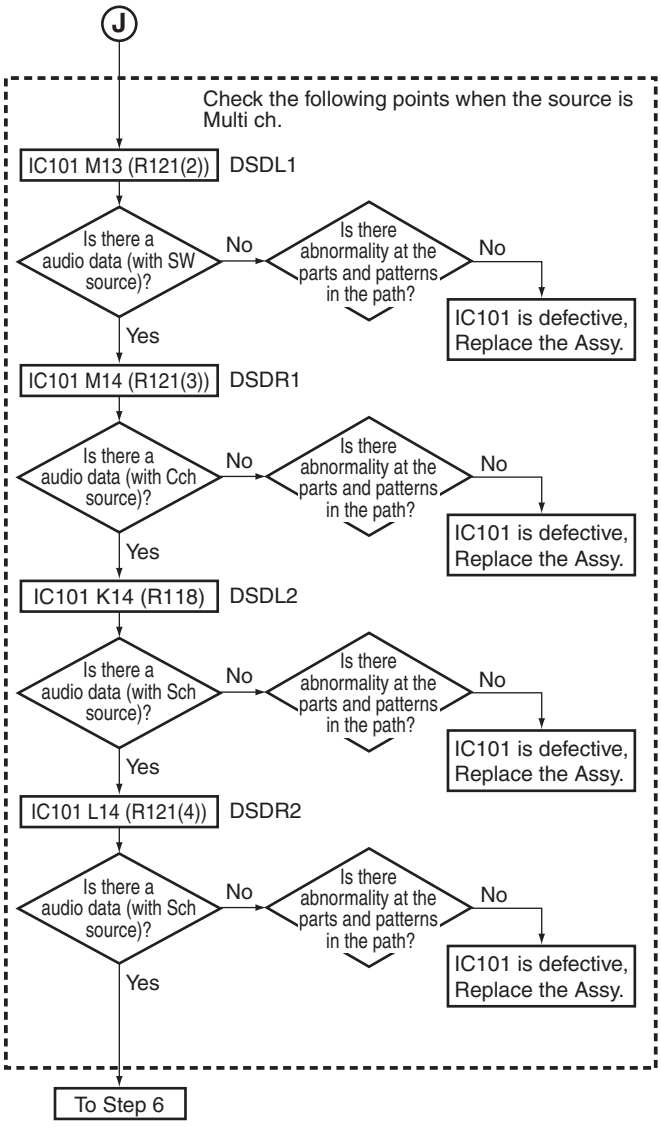
Step 5-1: Audio Clock (from Switch to 1st DSP)



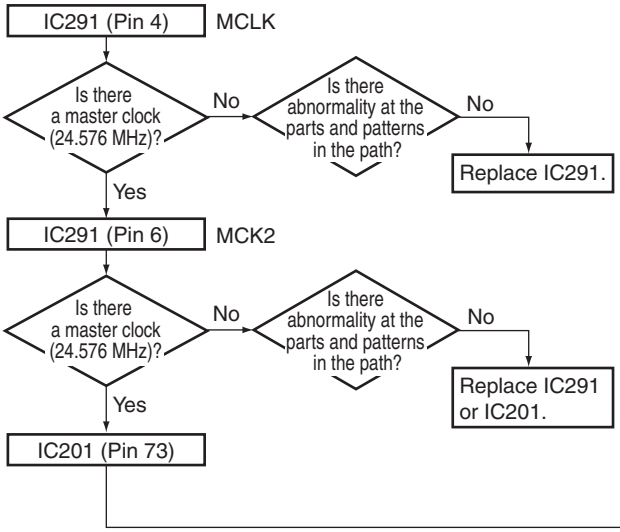


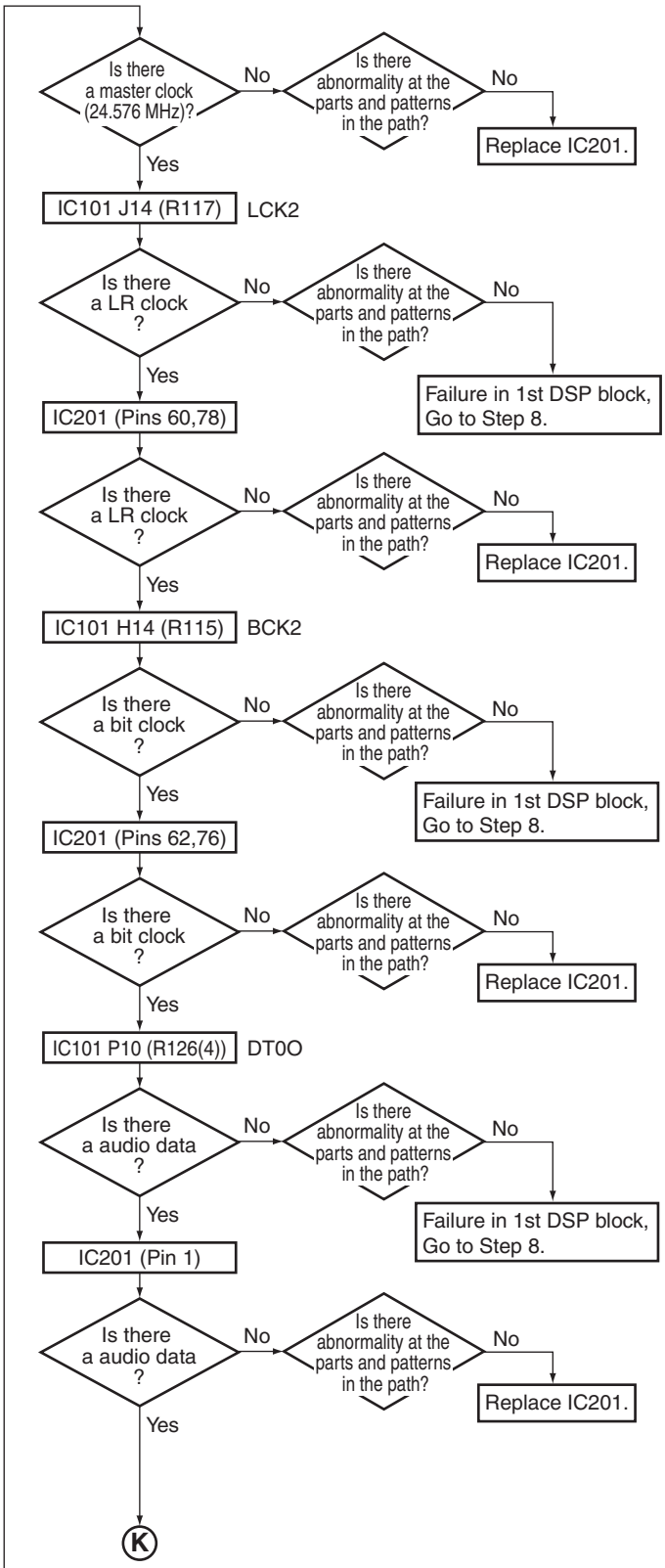
Step 5-2: Audio Clock & Data (in the case of SACD to 1st DSP)

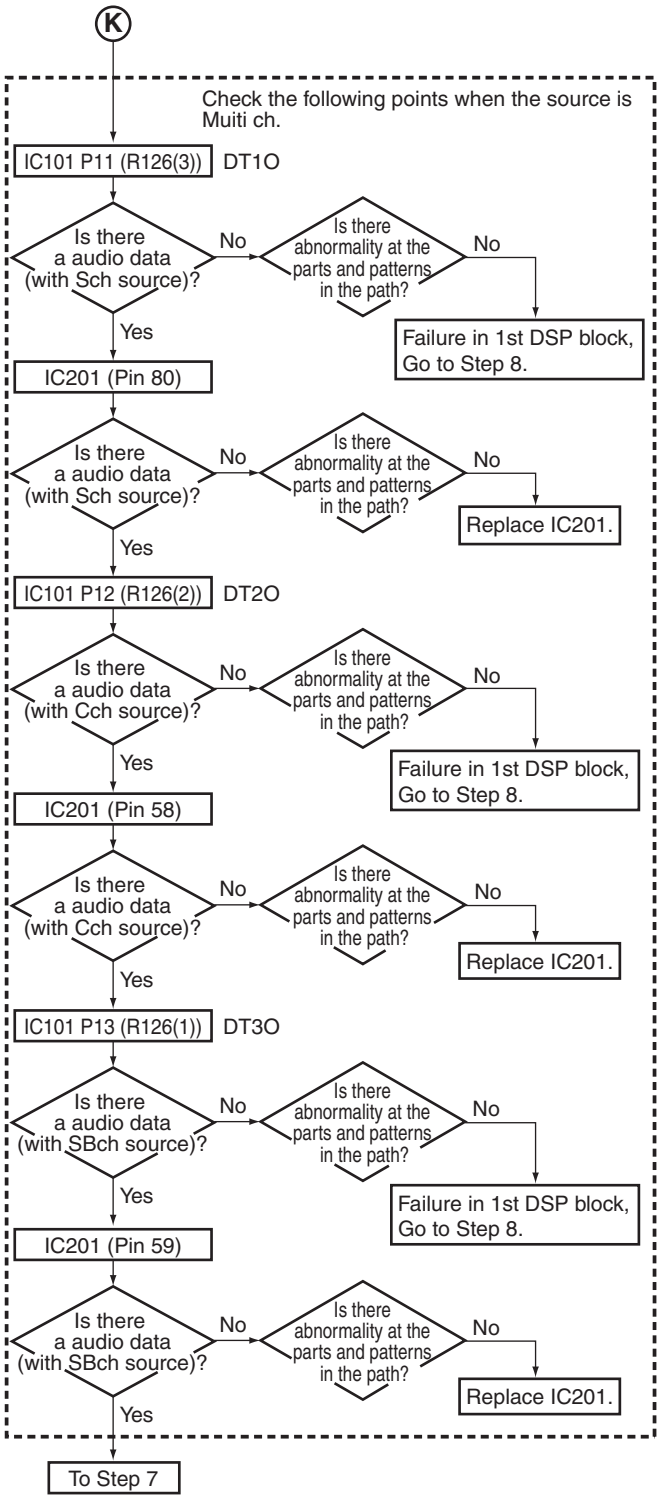




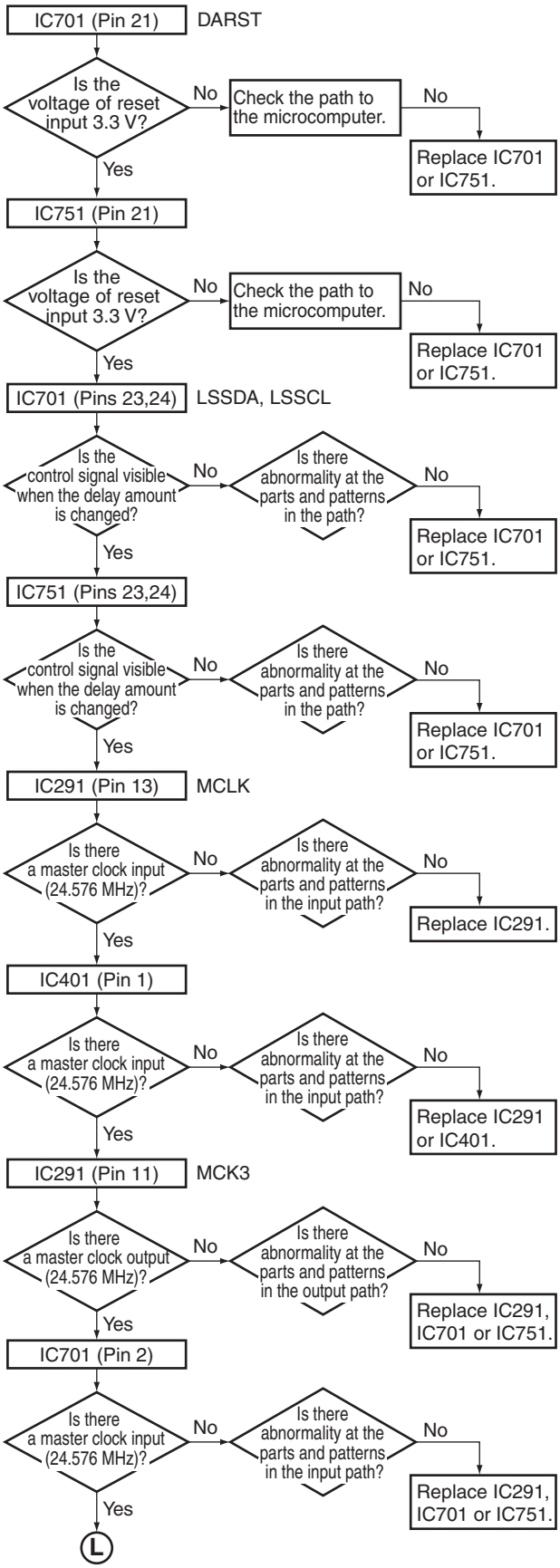
Step 6: Audio Clock (from 1st DSP to 2nd DSP)

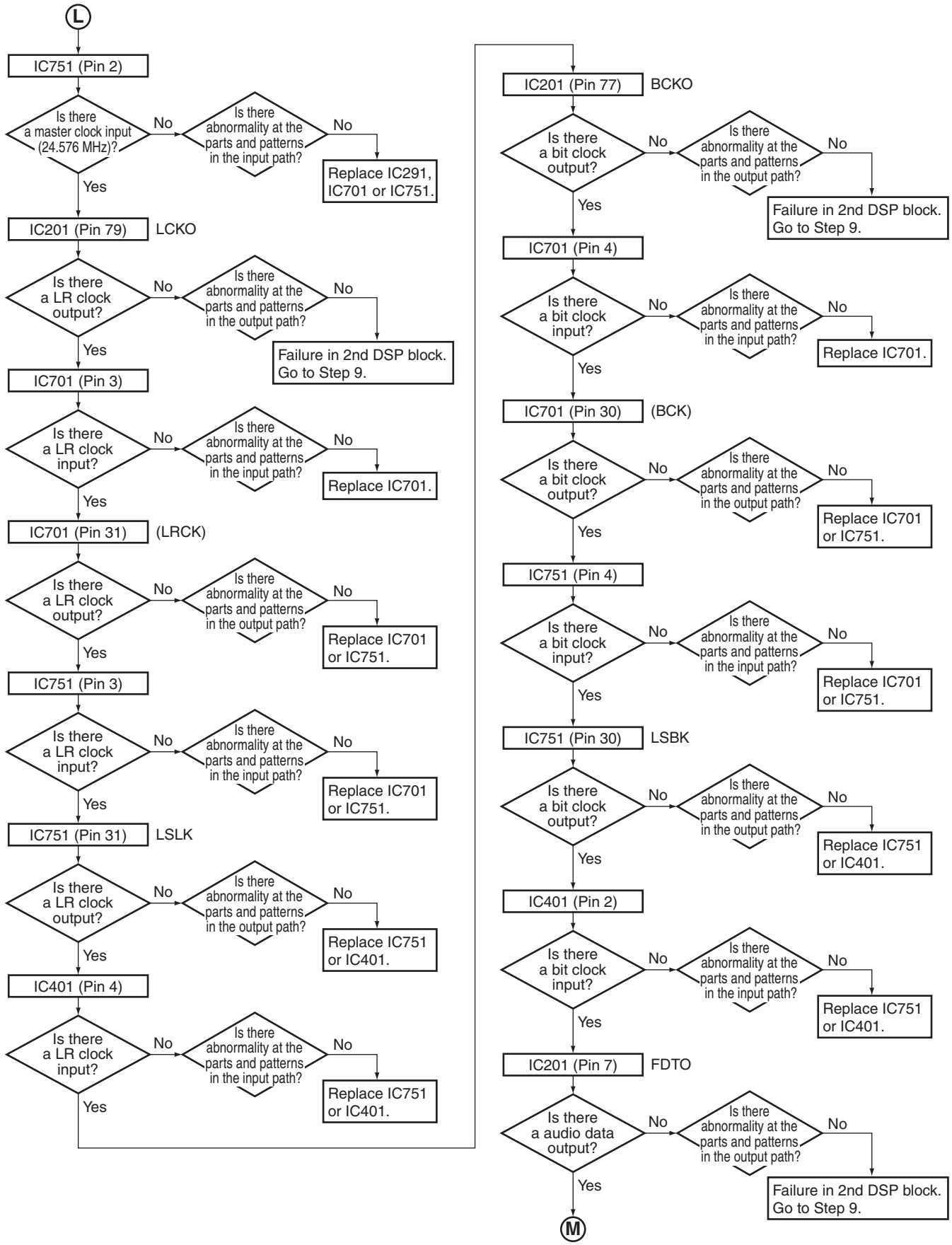


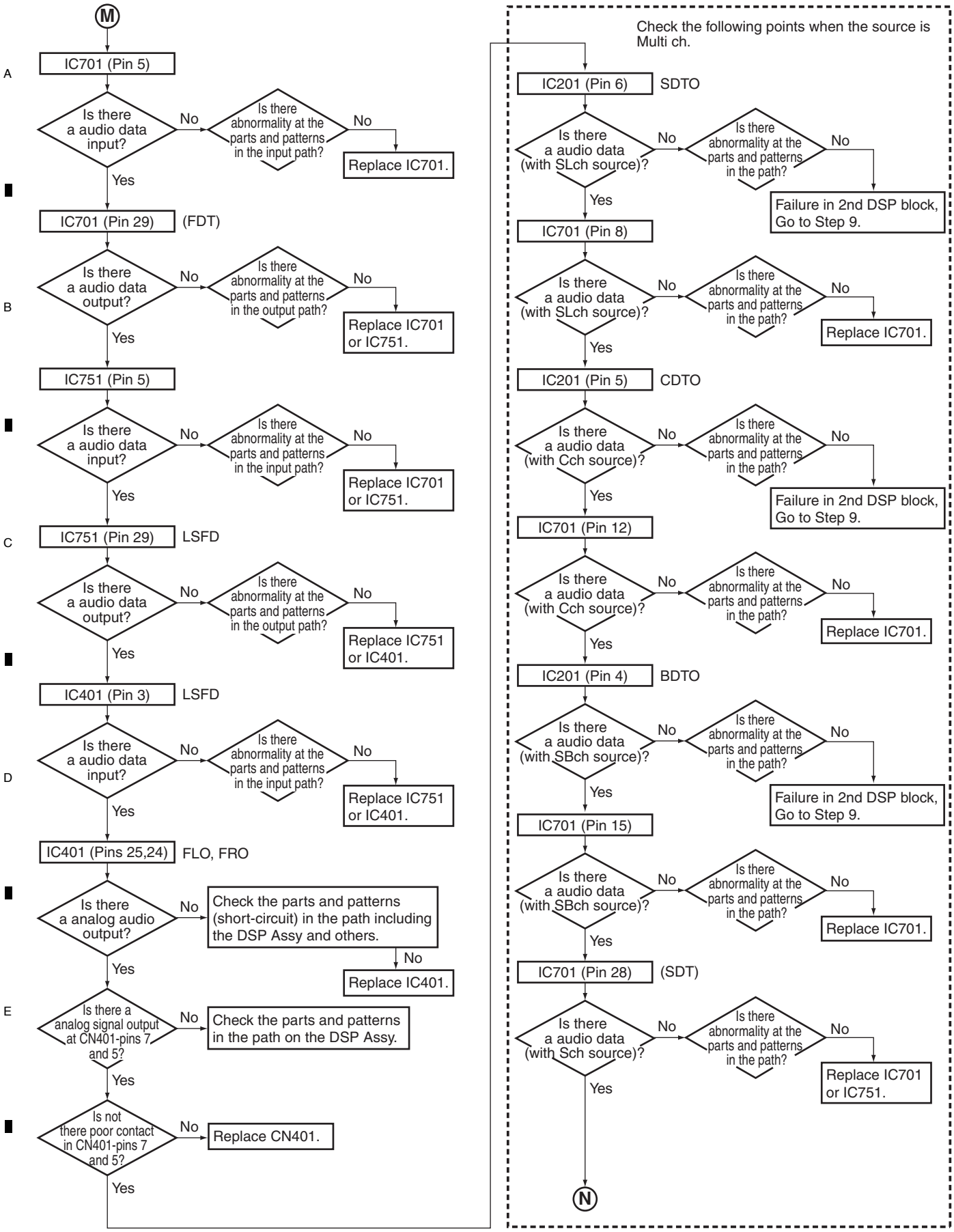


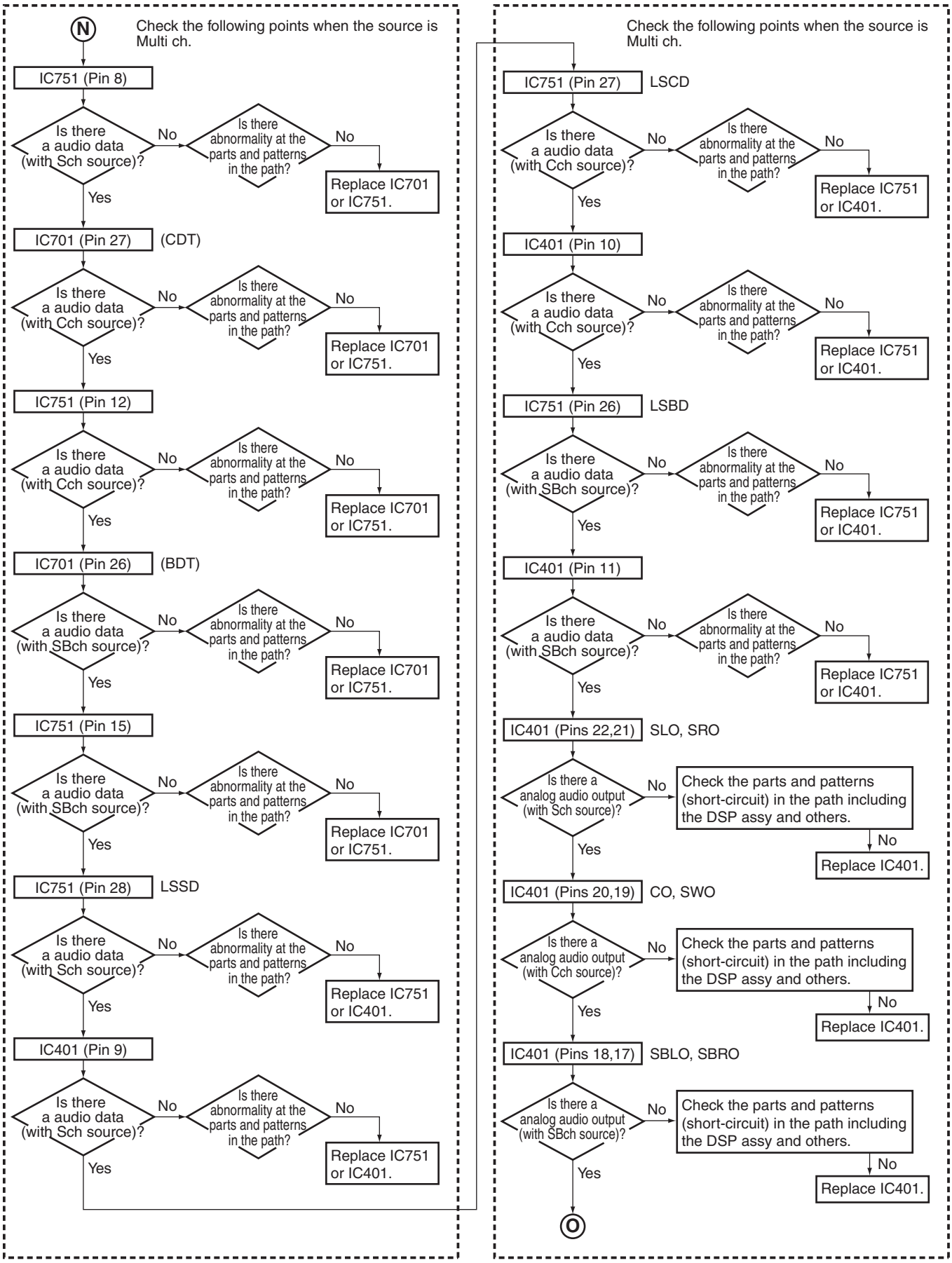


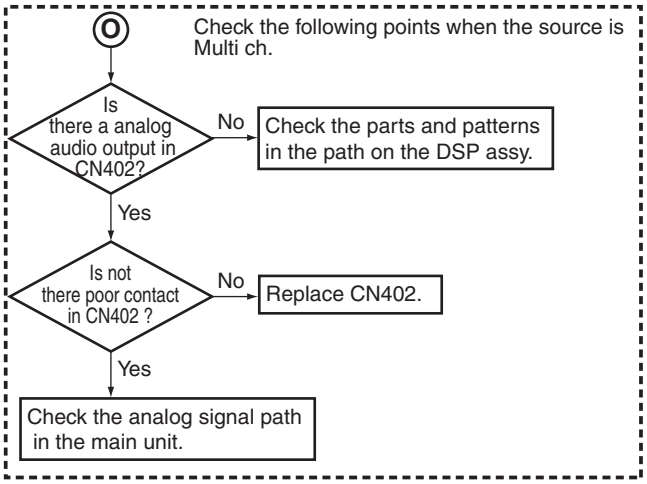
Step 7: Audio Clock (from 2nd DSP to the DAC output)



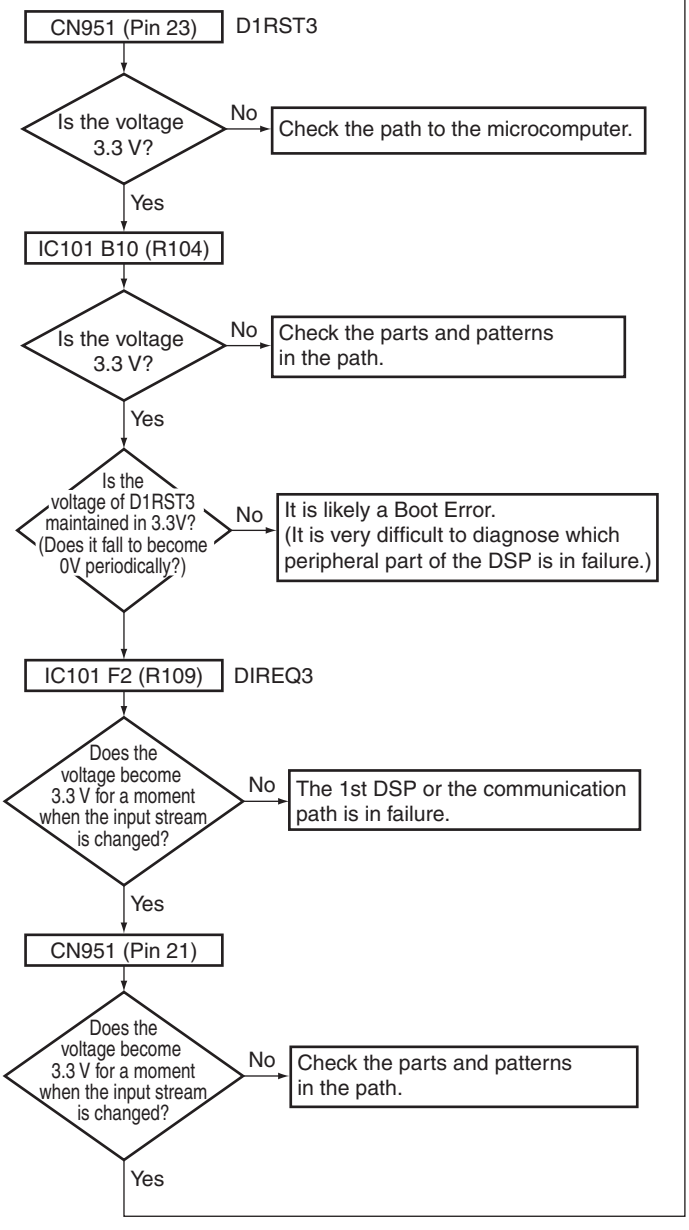

L
IC751 (Pin 2)
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC291, IC701 or IC751.
Yes
IC201 (Pin 79) LCKO
Is there a LR clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Failure in 2nd DSP block. Go to Step 9.
Yes
IC701 (Pin 3)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC701.
Yes
IC701 (Pin 31) (LRCK)
Is there a LR clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 3)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 31) LSLK
Is there a LR clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC751 or IC401.
Yes
IC401 (Pin 4)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC751 or IC401.
Yes
IC201 (Pin 77) BCKO
Is there a bit clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Failure in 2nd DSP block. Go to Step 9.
Yes
IC701 (Pin 4)
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC701.
Yes
IC701 (Pin 30) (BCK)
Is there a bit clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 4)
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 30) LSBK
Is there a bit clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC751 or IC401.
Yes
IC401 (Pin 2)
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC751 or IC401.
Yes
IC201 (Pin 7) FDTO
Is there a audio data output?
No
Is there abnormality at the parts and patterns in the output path?
No
Failure in 2nd DSP block. Go to Step 9.
Yes
M

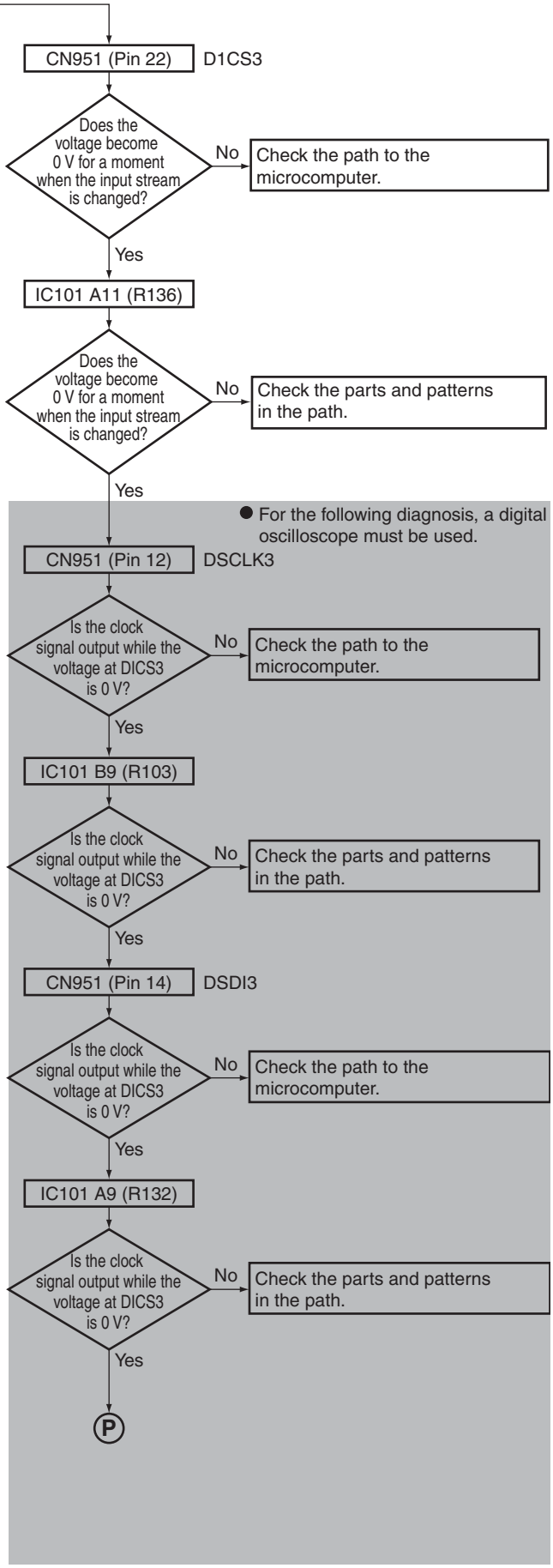

M
IC701 (Pin 5)
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC701.
Yes
IC701 (Pin 29) (FDT)
Is there a audio data output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 5)
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 29) LSFD
Is there a audio data output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC751 or IC401.
Yes
IC401 (Pin 3) LSFD
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC751 or IC401.
Yes
IC401 (Pins 25,24) FLO, FRO
Is there a analog audio output?
No
Check the parts and patterns (short-circuit) in the path including the DSP Assy and others.
No
Replace IC401.
Yes
Is there a analog signal output at CN401-pins 7 and 5?
No
Check the parts and patterns in the path on the DSP Assy.
Yes
Is not there poor contact in CN401-pins 7 and 5?
No
Replace CN401.
Yes
Check the following points when the source is Multi ch.
IC201 (Pin 6) SDTO
Is there a audio data (with SLch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 2nd DSP block, Go to Step 9.
Yes
IC701 (Pin 8)
Is there a audio data (with SLch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701.
Yes
IC201 (Pin 5) CDTO
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 2nd DSP block, Go to Step 9.
Yes
IC701 (Pin 12)
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701.
Yes
IC201 (Pin 4) BDTO
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 2nd DSP block, Go to Step 9.
Yes
IC701 (Pin 15)
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701.
Yes
IC701 (Pin 28) (SDT)
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701 or IC751.
Yes
N

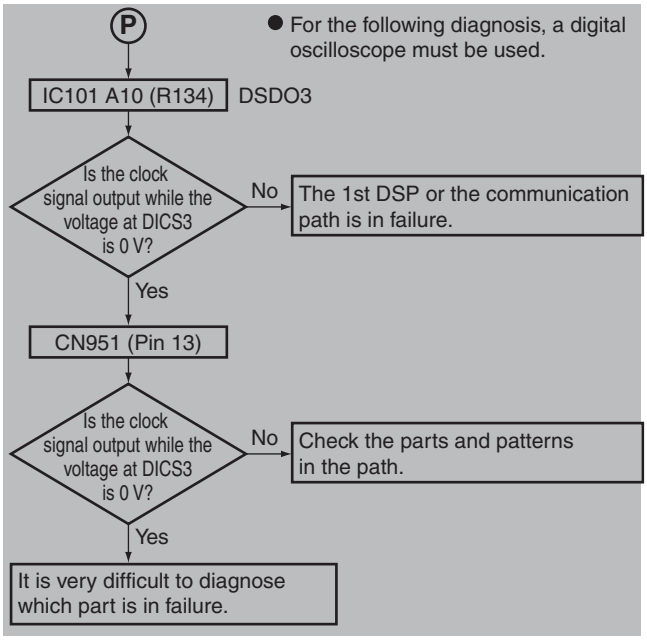

N
Check the following points when the source is Multi ch.
IC751 (Pin 8)
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701 or IC751.
Yes
IC701 (Pin 27) (CDT)
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 12)
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701 or IC751.
Yes
IC701 (Pin 26) (BDT)
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 15)
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC701 or IC751.
Yes
IC751 (Pin 28) LSSD
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC751 or IC401.
Yes
IC401 (Pin 9)
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC751 or IC401.
Yes
Check the following points when the source is Multi ch.
IC751 (Pin 27) LSCD
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC751 or IC401.
Yes
IC401 (Pin 10)
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC751 or IC401.
Yes
IC751 (Pin 26) LSBD
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC751 or IC401.
Yes
IC401 (Pin 11)
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC751 or IC401.
Yes
IC401 (Pins 22,21) SLO, SRO
Is there a analog audio output (with Sch source)?
No
Check the parts and patterns (short-circuit) in the path including the DSP assy and others.
No
Replace IC401.
Yes
IC401 (Pins 20,19) CO, SWO
Is there a analog audio output (with Cch source)?
No
Check the parts and patterns (short-circuit) in the path including the DSP assy and others.
No
Replace IC401.
Yes
IC401 (Pins 18,17) SBLO, SBRO
Is there a analog audio output (with SBch source)?
No
Check the parts and patterns (short-circuit) in the path including the DSP assy and others.
No
Replace IC401.
Yes
O



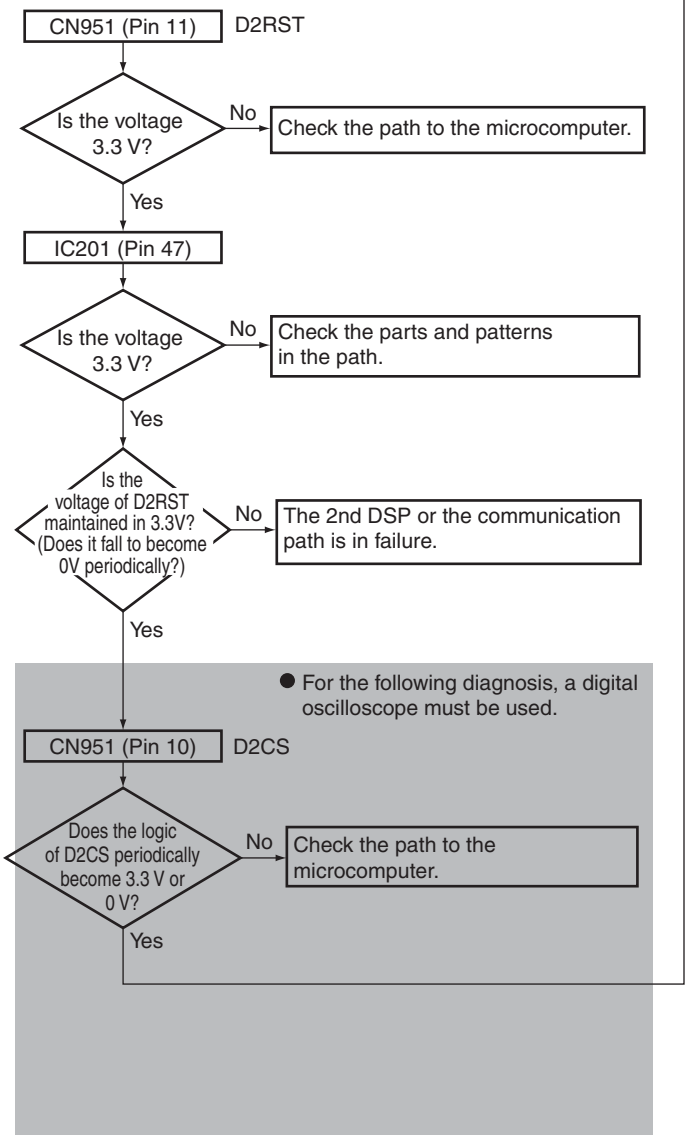
Step 8: 1st DSP

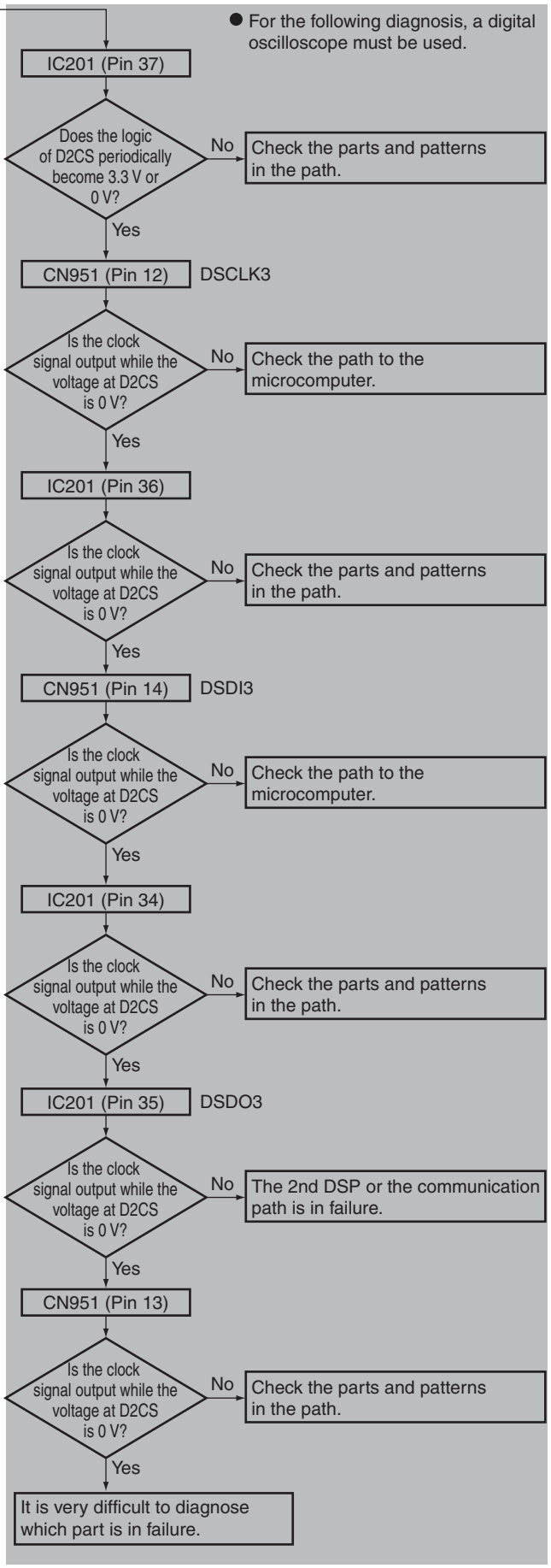






Step 9: 2nd DSP



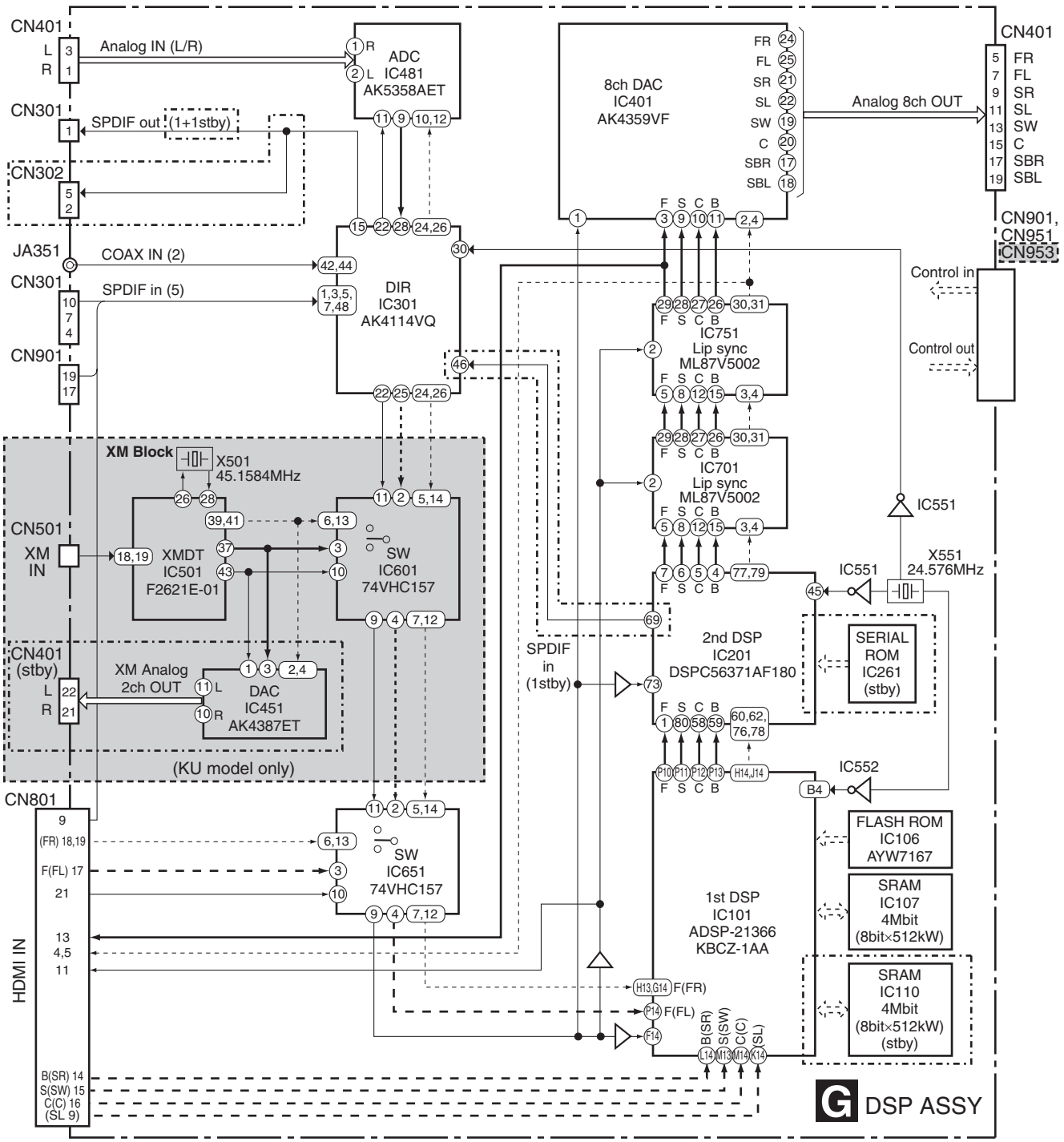


■ DSP Block Diagram

• Signal Block

- [ ]: For AWX8813 only (for North American specifications)
- [ ]: Standy-by parts, stand-by path
- ( ): Channel allocation for SACD

: I2S MCLK
: I2S DATA (2ch) *F, S, C and B before pin numbers mean FL/FRch, SL/SRch, C/SWch and SBL/SBRch, respectively.
: I2S DATA (Compressed (includes dts HD High Resolution Audio, dts HD LBR, and Dolby Digital Plus), (48K for HDMI)
: I2S LRCK, MBCK
: Control, memory bus line, etc
: Analog audio signal *Alphabets before pin numbers mean the channel names.
: SPDIF, Operation Clock, etc
: I2S or DSD DATA (Signal from HDMI. When it is "dts HD Master Audio", "Dolby True HD", "SACD", "LPCM Multi" or "PCM or LPCM at or above 88.2kHz")



(Supplement) Differences in channel allocation for SACD signal and other signals

CN801

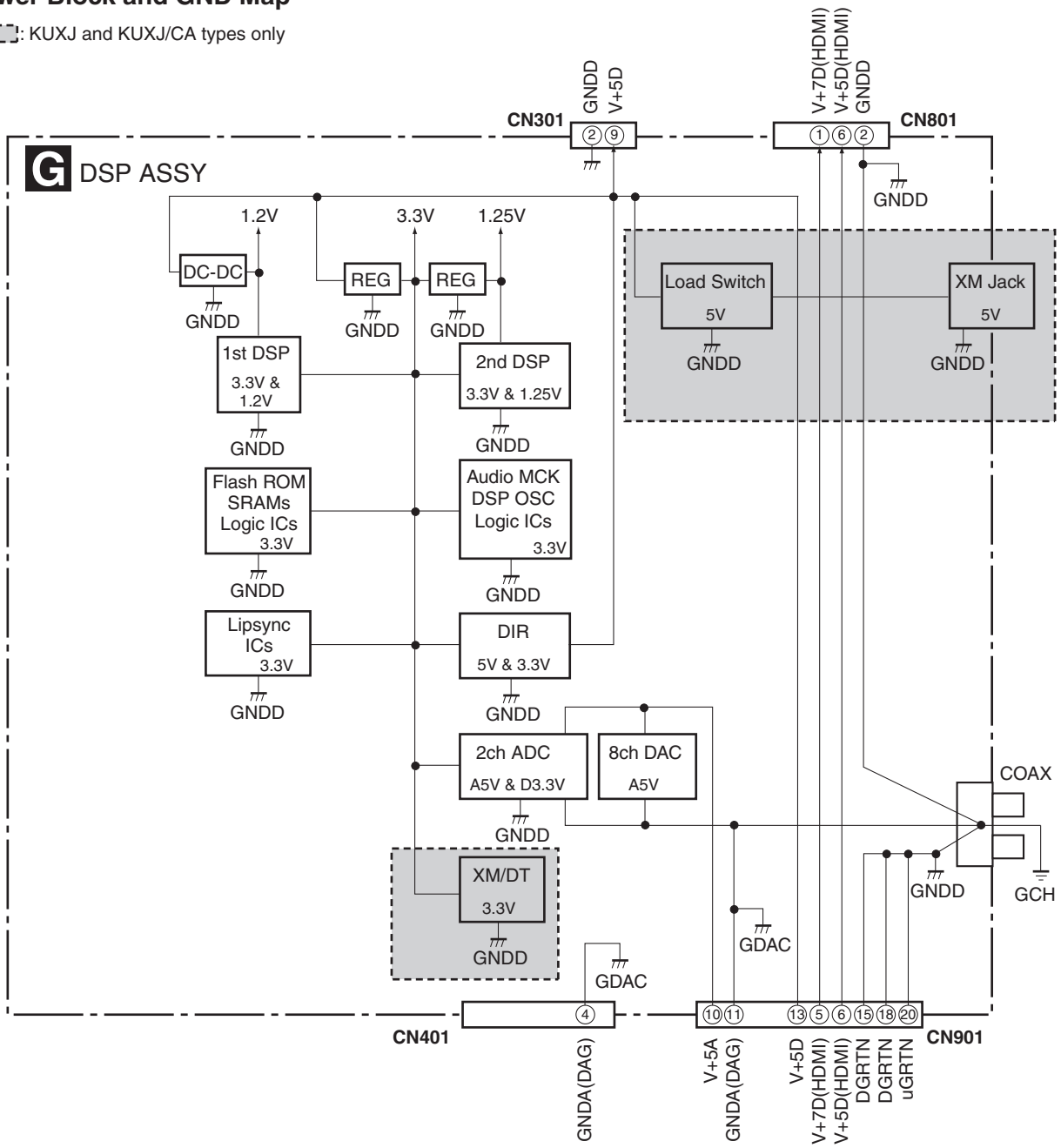
Pin No.	SACD signal	Other signals
9	Data(SL)	-
14	Data(SR)	Data(SBL,SBR)
15	Data(SW)	Data(SL,SR)
16	Data(C)	Data(C,SW)
17	Data(FL)	Data(FL,FR)
18	Data(FR)	LR clock

IC101

Pin No.	SACD signal	Other signals
H13	Data(FR)	LR clock
K14	Data(SL)	-
L14	Data(SR)	Data(SBL,SBR)
M13	Data(SW)	Data(SL,SR)
M14	Data(C)	Data(C,SW)
P14	Data(FL)	Data(FL,FR)

• Power Block and GND Map

• : KUXJ and KUXJ/CA types only



• Conditions for selecting SPDIF or I2S output from HDMI Assy.

	pcm	fs(kHz)	Layout	SPDIF	I2S(3 lines)
Indistinguishable → DVD-V	Compression DVD-V	48	2ch	◎	×
	Compression *.WAV	44	2ch	○	×
		48	2ch	○	×
	dts-CD	44	2ch	○	×
	PCM	44	2ch	○	×
		48	2ch	○	×
		96	2ch		○
→ DVD-A	LPCM	44	2ch	○	
			Multi	×	○
		48	2ch	○	
			Multi	×	○
		88	2ch		○
			Multi	×	○
		96	2ch		○
			Multi	×	○
		176	2ch	×	○
			Multi	-	-
		192	2ch	×	○
			Multi	-	-

SACD	2ch	×	○	(DSD)
	Multi	×	○	(DSD)

dts HD Master Audio	×	○
dts HD High Resolution Audio	○	×
dts HD LBR	○	×
Dolby TrueHD	×	○
Dolby Digital Plus	○	×

5.1.2 HDMI TROUBLESHOOTING

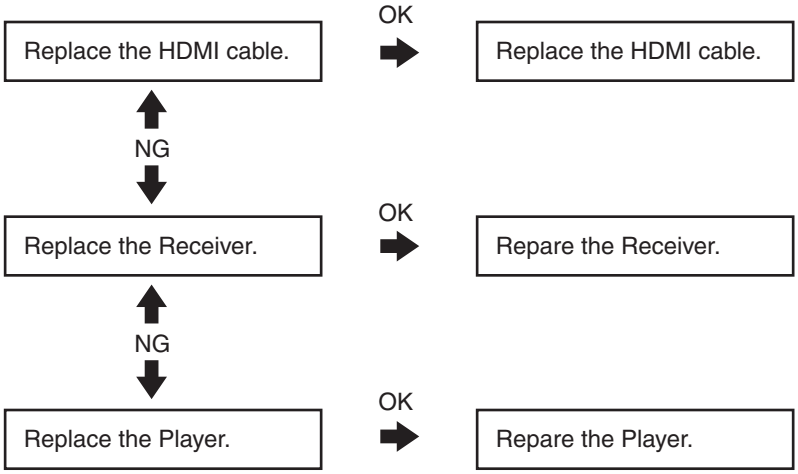
■ HDMI Simple Diagnosis

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

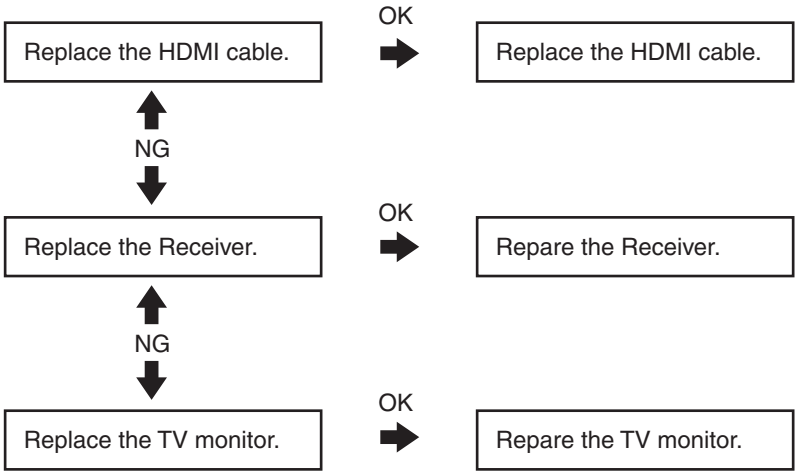
HDMI

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). In this case, connect using the component, S-video or composite video jacks between source and receiver. • 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.	• To see the on-screen display, you must also connect the receiver and TV with a composite, component, or S-video cable. • 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 AV 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.
Noisy or distorted picture.	• 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.

1. Causes for noncompletion of HDMI authentication between the source equipment and this unit (the HDMI indicator is unlit or flashes)



2. Causes for noncompletion of HDMI authentication between the monitor and this unit (no display or sound from the monitor)



■ HDMI Troubleshooting

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

Common section

Step 1-1: Connections

CN1001, CN1002

Are BtoB connectors inserted securely? — No → Insert it securely.

Yes

Step 1-2: Power supply

V+5 — 5 V — **V+5**

Is the voltage 5 V? — No → Check the DSP Assy or AUDIO IN Assy or DC/DC Assy.

Yes

IC901 (Pin 3) — 3.3 V — **V+3R3VC**

Is the voltage 3.3 V? — No → Check the patterns in the path and IC901. If IC901 is failure, replace IC901.

Yes

V+3R3UC — 3.3 V (HDMI UCOM) — **V+3R3UC**

Is the voltage 3.3 V? — No → Check the patterns in the path and L501. If L501 is failure, replace L501.

Yes

Step 1-3: Reset

CN1001 (Pin 2) — HDRST — **O**

Is the voltage "H" (3.3 V)? — No → Check the parts and patterns in the path. Check the DSP Assy or AUDIO IN Assy or MAIN CONTROL Assy.

Yes

To Step 2-1: HDMI section
To Step 3-1: Video converter section

HDMI section

Step 2-1: Power supply

CN1001 (Pin 26) — 7 V — **V+7D**

Is the voltage 7 V? — No → Check the DSP Assy or AUDIO IN Assy or DC/DC Assy.

Yes

IC911 (Pin 5) — 5 V (HDMI OUT) — **V+5HD**

Is the voltage 5 V? — No → Check the IC911. If IC911 is failure, replace IC911.

Yes

R1002 — 5 V — **V+5D**

Is the voltage 5 V? — No → Check the R1002. If R1002 is failure, replace R1002.

Yes

IC151 (Pin 8) — 5 V (HDMI IN1) — **V+5E0**

Is the voltage 4.4 V? — No → Check the D151. If D151 is failure, replace D151.

Yes

IC171 (Pin 8) — 5 V (HDMI IN2) — **V+5E1**

Is the voltage 4.4 V? — No → Check the D171. If D171 is failure, replace D171.

Yes

IC501 (Pin 6) — PWRCTL1 — **A-1**

Is the voltage "H" (3.3 V)? — No → Check the IC501 or IC502. If IC501 or IC502 is failure, replace IC501 or IC502.

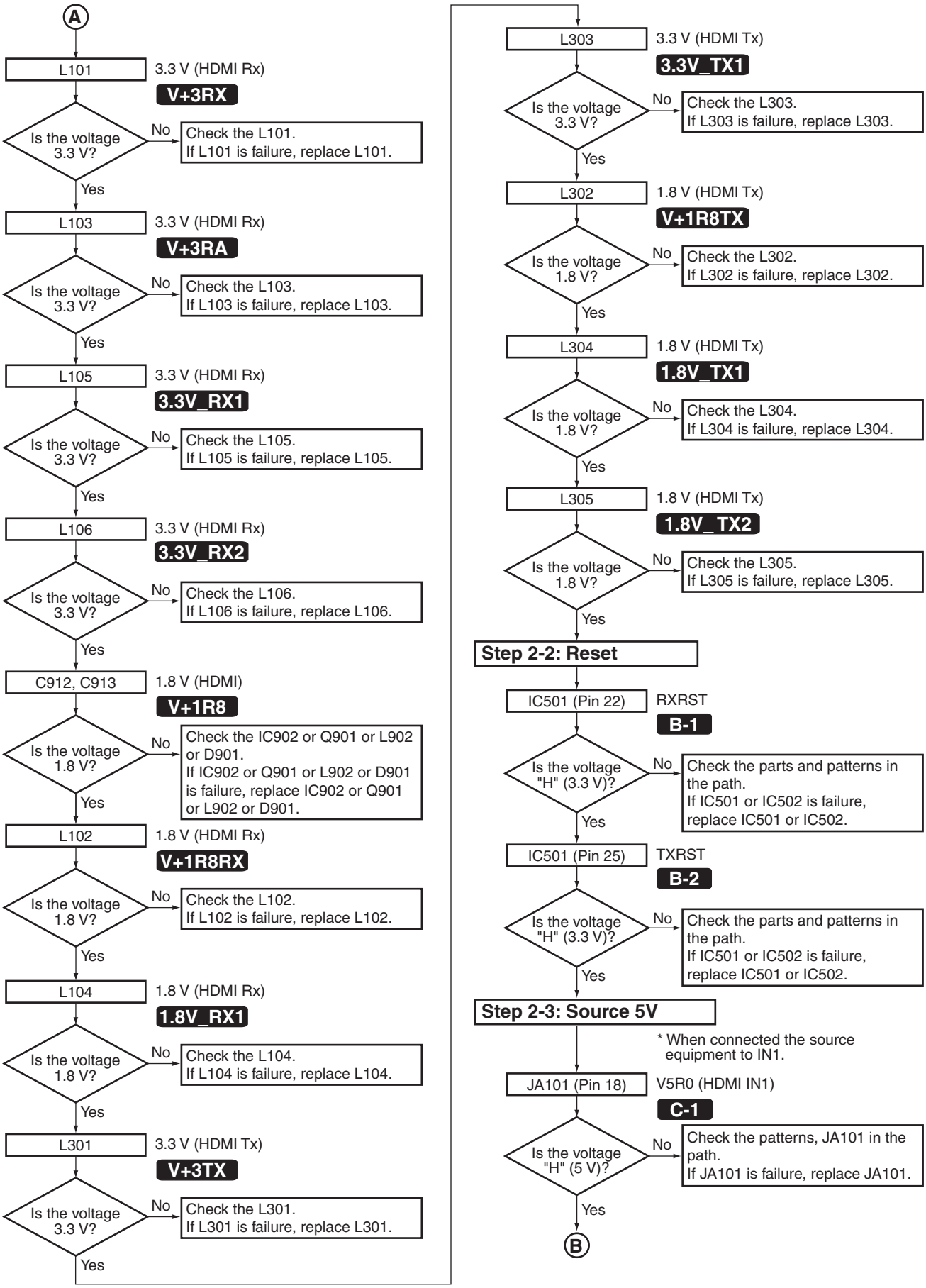
Yes

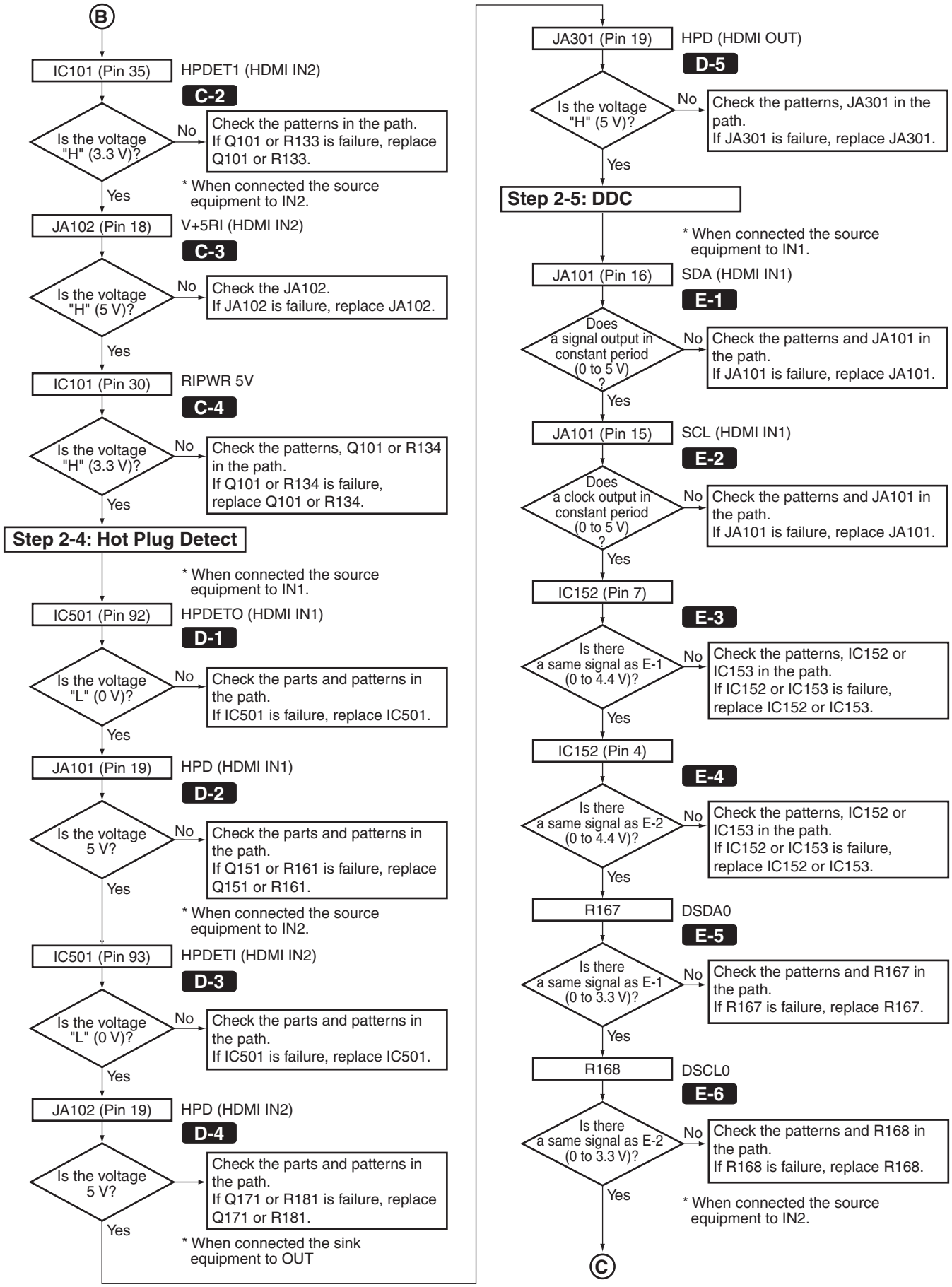
IC501 (Pin 97) — PWRCTL2 — **A-2**

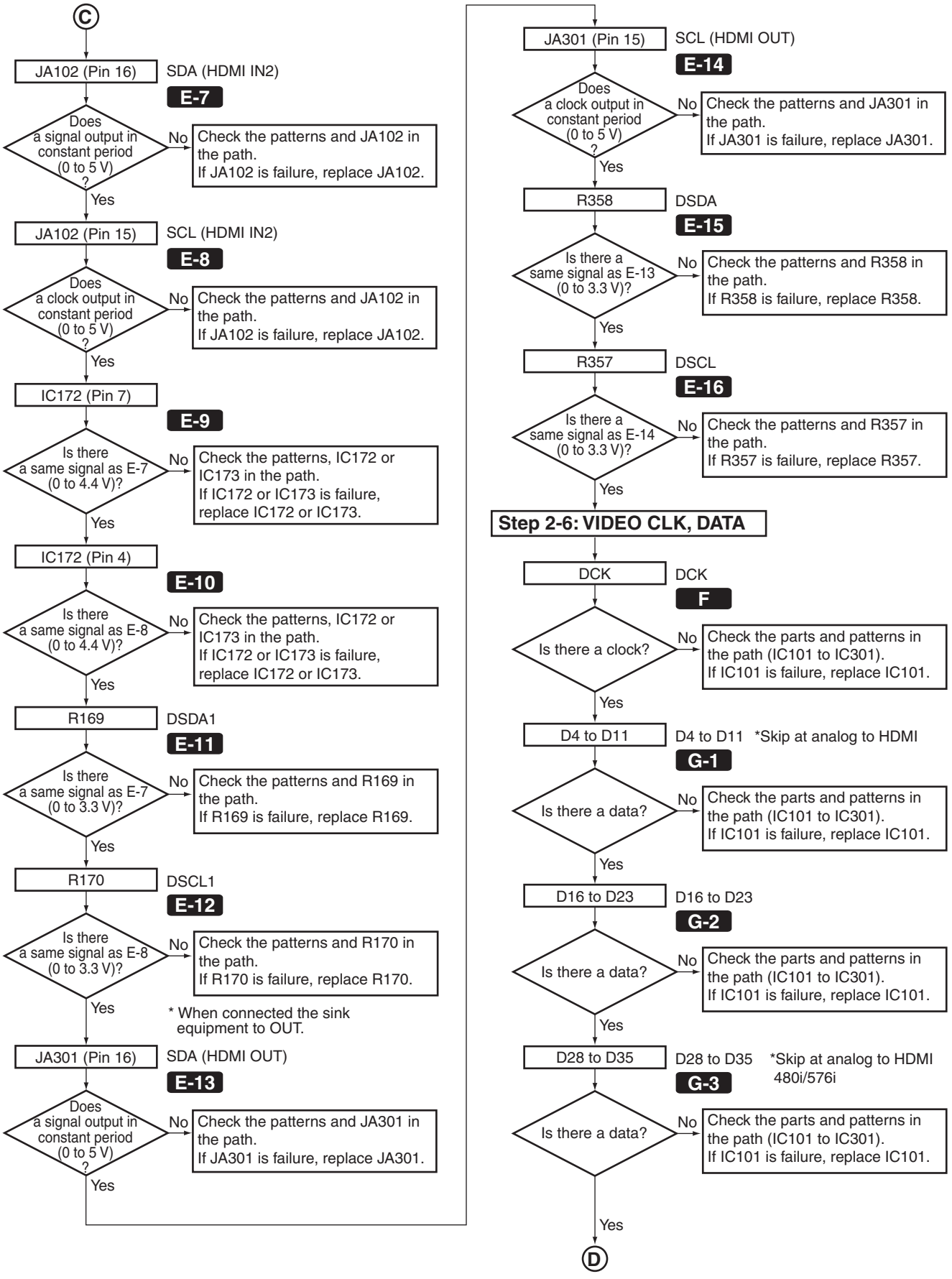
Is the voltage "L" (0 V)? — No → Check the IC501 or IC502. If IC501 or IC502 is failure, replace IC501 or IC502.

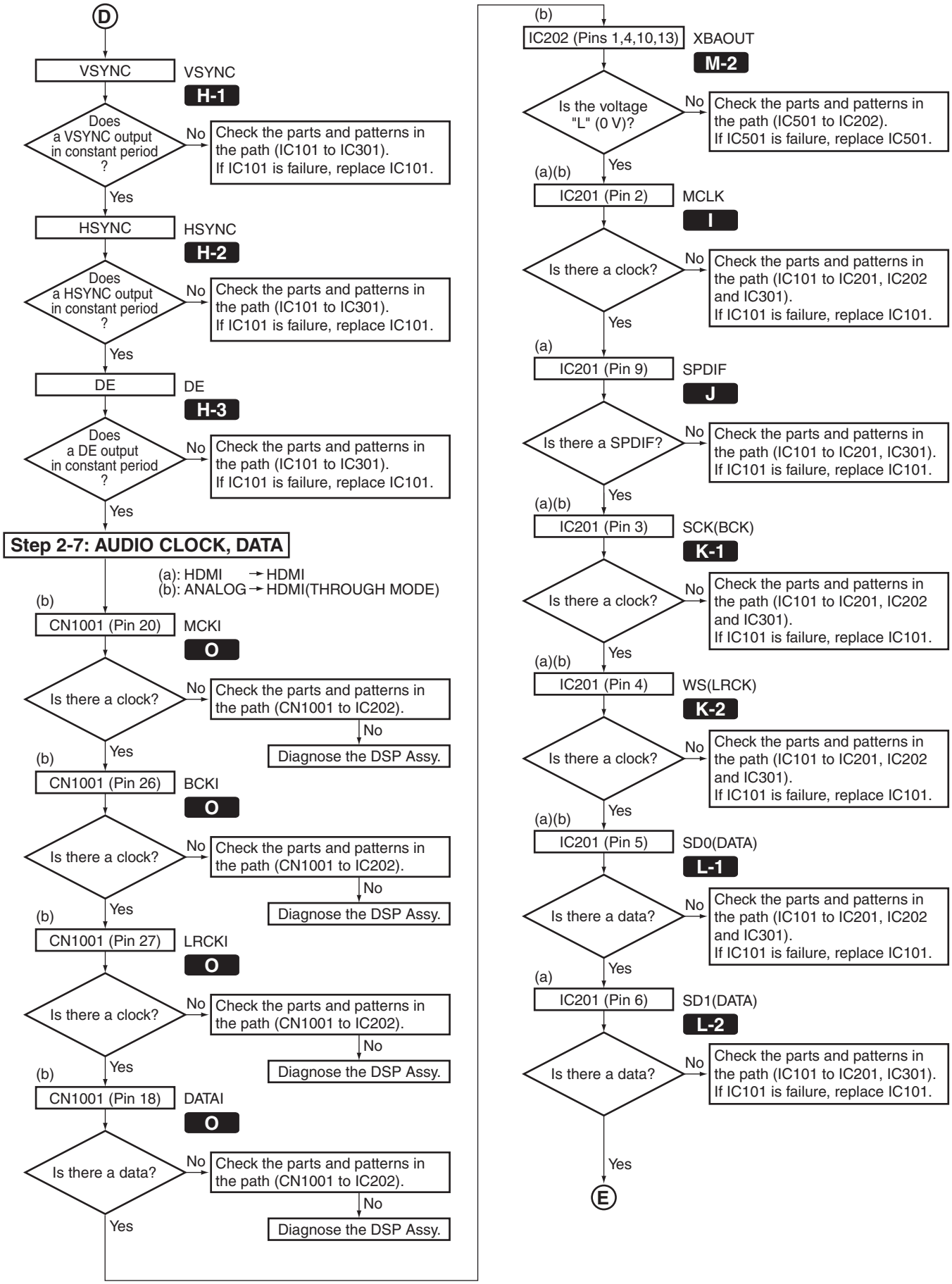
Yes → Check the Q902. If Q902 is failure, replace Q902.

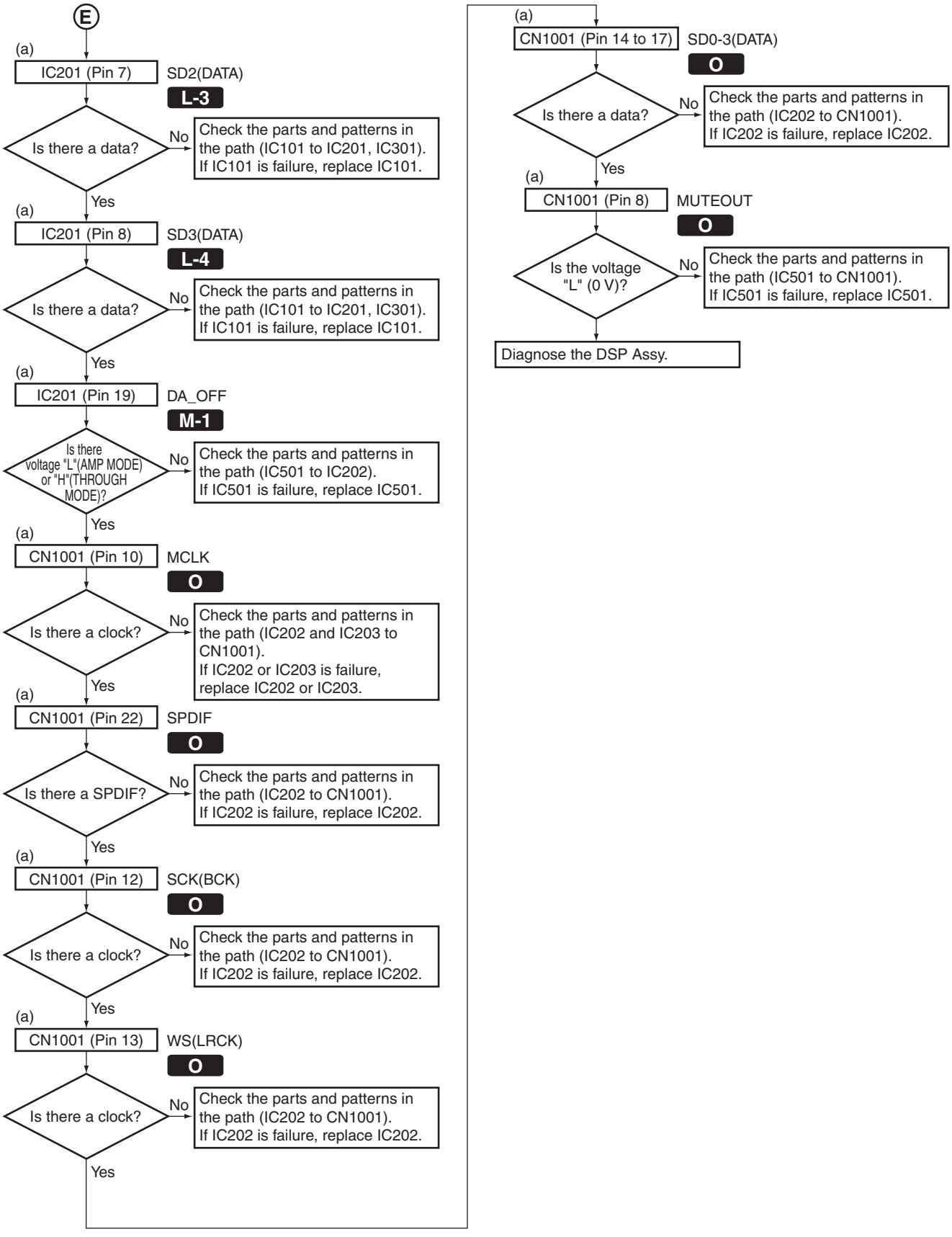
Yes → Ⓐ


A
L101
3.3 V (HDMI Rx)
V+3RX
Is the voltage 3.3 V?
No
Check the L101.
If L101 is failure, replace L101.
Yes
L103
3.3 V (HDMI Rx)
V+3RA
Is the voltage 3.3 V?
No
Check the L103.
If L103 is failure, replace L103.
Yes
L105
3.3 V (HDMI Rx)
3.3V_RX1
Is the voltage 3.3 V?
No
Check the L105.
If L105 is failure, replace L105.
Yes
L106
3.3 V (HDMI Rx)
3.3V_RX2
Is the voltage 3.3 V?
No
Check the L106.
If L106 is failure, replace L106.
Yes
C912, C913
1.8 V (HDMI)
V+1R8
Is the voltage 1.8 V?
No
Check the IC902 or Q901 or L902 or D901.
If IC902 or Q901 or L902 or D901 is failure, replace IC902 or Q901 or L902 or D901.
Yes
L102
1.8 V (HDMI Rx)
V+1R8RX
Is the voltage 1.8 V?
No
Check the L102.
If L102 is failure, replace L102.
Yes
L104
1.8 V (HDMI Rx)
1.8V_RX1
Is the voltage 1.8 V?
No
Check the L104.
If L104 is failure, replace L104.
Yes
L301
3.3 V (HDMI Tx)
V+3TX
Is the voltage 3.3 V?
No
Check the L301.
If L301 is failure, replace L301.
Yes
L303
3.3 V (HDMI Tx)
3.3V_TX1
Is the voltage 3.3 V?
No
Check the L303.
If L303 is failure, replace L303.
Yes
L302
1.8 V (HDMI Tx)
V+1R8TX
Is the voltage 1.8 V?
No
Check the L302.
If L302 is failure, replace L302.
Yes
L304
1.8 V (HDMI Tx)
1.8V_TX1
Is the voltage 1.8 V?
No
Check the L304.
If L304 is failure, replace L304.
Yes
L305
1.8 V (HDMI Tx)
1.8V_TX2
Is the voltage 1.8 V?
No
Check the L305.
If L305 is failure, replace L305.
Yes
Step 2-2: Reset
IC501 (Pin 22)
RXRST
B-1
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
If IC501 or IC502 is failure, replace IC501 or IC502.
Yes
IC501 (Pin 25)
TXRST
B-2
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
If IC501 or IC502 is failure, replace IC501 or IC502.
Yes
Step 2-3: Source 5V
* When connected the source equipment to IN1.
JA101 (Pin 18)
V5R0 (HDMI IN1)
C-1
Is the voltage "H" (5 V)?
No
Check the patterns, JA101 in the path.
If JA101 is failure, replace JA101.
Yes
B


B
IC101 (Pin 35)
HPDET1 (HDMI IN2)
C-2
Is the voltage "H" (3.3 V)?
No
Check the patterns in the path. If Q101 or R133 is failure, replace Q101 or R133.
Yes
* When connected the source equipment to IN2.
JA102 (Pin 18)
V+5RI (HDMI IN2)
C-3
Is the voltage "H" (5 V)?
No
Check the JA102. If JA102 is failure, replace JA102.
Yes
IC101 (Pin 30)
RIPWR 5V
C-4
Is the voltage "H" (3.3 V)?
No
Check the patterns, Q101 or R134 in the path. If Q101 or R134 is failure, replace Q101 or R134.
Yes
Step 2-4: Hot Plug Detect
* When connected the source equipment to IN1.
IC501 (Pin 92)
HPDETO (HDMI IN1)
D-1
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path. If IC501 is failure, replace IC501.
Yes
JA101 (Pin 19)
HPD (HDMI IN1)
D-2
Is the voltage 5 V?
No
Check the parts and patterns in the path. If Q151 or R161 is failure, replace Q151 or R161.
Yes
* When connected the source equipment to IN2.
IC501 (Pin 93)
HPDETI (HDMI IN2)
D-3
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path. If IC501 is failure, replace IC501.
Yes
JA102 (Pin 19)
HPD (HDMI IN2)
D-4
Is the voltage 5 V?
No
Check the parts and patterns in the path. If Q171 or R181 is failure, replace Q171 or R181.
Yes
* When connected the sink equipment to OUT
JA301 (Pin 19)
HPD (HDMI OUT)
D-5
Is the voltage "H" (5 V)?
No
Check the patterns, JA301 in the path. If JA301 is failure, replace JA301.
Yes
Step 2-5: DDC
* When connected the source equipment to IN1.
JA101 (Pin 16)
SDA (HDMI IN1)
E-1
Does a signal output in constant period (0 to 5 V) ?
No
Check the patterns and JA101 in the path. If JA101 is failure, replace JA101.
Yes
JA101 (Pin 15)
SCL (HDMI IN1)
E-2
Does a clock output in constant period (0 to 5 V) ?
No
Check the patterns and JA101 in the path. If JA101 is failure, replace JA101.
Yes
IC152 (Pin 7)
E-3
Is there a same signal as E-1 (0 to 4.4 V)?
No
Check the patterns, IC152 or IC153 in the path. If IC152 or IC153 is failure, replace IC152 or IC153.
Yes
IC152 (Pin 4)
E-4
Is there a same signal as E-2 (0 to 4.4 V)?
No
Check the patterns, IC152 or IC153 in the path. If IC152 or IC153 is failure, replace IC152 or IC153.
Yes
R167
DSDA0
E-5
Is there a same signal as E-1 (0 to 3.3 V)?
No
Check the patterns and R167 in the path. If R167 is failure, replace R167.
Yes
R168
DSCL0
E-6
Is there a same signal as E-2 (0 to 3.3 V)?
No
Check the patterns and R168 in the path. If R168 is failure, replace R168.
Yes
* When connected the source equipment to IN2.
C


C
JA102 (Pin 16)
SDA (HDMI IN2)
E-7
Does a signal output in constant period (0 to 5 V) ?
No
Check the patterns and JA102 in the path.
If JA102 is failure, replace JA102.
Yes
JA102 (Pin 15)
SCL (HDMI IN2)
E-8
Does a clock output in constant period (0 to 5 V) ?
No
Check the patterns and JA102 in the path.
If JA102 is failure, replace JA102.
Yes
IC172 (Pin 7)
E-9
Is there a same signal as E-7 (0 to 4.4 V)?
No
Check the patterns, IC172 or IC173 in the path.
If IC172 or IC173 is failure, replace IC172 or IC173.
Yes
IC172 (Pin 4)
E-10
Is there a same signal as E-8 (0 to 4.4 V)?
No
Check the patterns, IC172 or IC173 in the path.
If IC172 or IC173 is failure, replace IC172 or IC173.
Yes
R169
DSDA1
E-11
Is there a same signal as E-7 (0 to 3.3 V)?
No
Check the patterns and R169 in the path.
If R169 is failure, replace R169.
Yes
R170
DSCL1
E-12
Is there a same signal as E-8 (0 to 3.3 V)?
No
Check the patterns and R170 in the path.
If R170 is failure, replace R170.
Yes
* When connected the sink equipment to OUT.
JA301 (Pin 16)
SDA (HDMI OUT)
E-13
Does a signal output in constant period (0 to 5 V) ?
No
Check the patterns and JA301 in the path.
If JA301 is failure, replace JA301.
Yes
JA301 (Pin 15)
SCL (HDMI OUT)
E-14
Does a clock output in constant period (0 to 5 V) ?
No
Check the patterns and JA301 in the path.
If JA301 is failure, replace JA301.
Yes
R358
DSDA
E-15
Is there a same signal as E-13 (0 to 3.3 V)?
No
Check the patterns and R358 in the path.
If R358 is failure, replace R358.
Yes
R357
DSCL
E-16
Is there a same signal as E-14 (0 to 3.3 V)?
No
Check the patterns and R357 in the path.
If R357 is failure, replace R357.
Yes
Step 2-6: VIDEO CLK, DATA
DCK
DCK
F
Is there a clock?
No
Check the parts and patterns in the path (IC101 to IC301).
If IC101 is failure, replace IC101.
Yes
D4 to D11
D4 to D11 *Skip at analog to HDMI
G-1
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC301).
If IC101 is failure, replace IC101.
Yes
D16 to D23
D16 to D23
G-2
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC301).
If IC101 is failure, replace IC101.
Yes
D28 to D35
D28 to D35 *Skip at analog to HDMI 480i/576i
G-3
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC301).
If IC101 is failure, replace IC101.
Yes
D


D
VSYNC
VSYNC
H-1
Does a VSYNC output in constant period ?
No
Check the parts and patterns in the path (IC101 to IC301). If IC101 is failure, replace IC101.
Yes
HSYNC
HSYNC
H-2
Does a HSYNC output in constant period ?
No
Check the parts and patterns in the path (IC101 to IC301). If IC101 is failure, replace IC101.
Yes
DE
DE
H-3
Does a DE output in constant period ?
No
Check the parts and patterns in the path (IC101 to IC301). If IC101 is failure, replace IC101.
Yes
Step 2-7: AUDIO CLOCK, DATA
(a): HDMI → HDMI
(b): ANALOG → HDMI(THROUGH MODE)
(b)
CN1001 (Pin 20)
MCKI
O
Is there a clock?
No
Check the parts and patterns in the path (CN1001 to IC202).
No
Diagnose the DSP Assy.
Yes
(b)
CN1001 (Pin 26)
BCKI
O
Is there a clock?
No
Check the parts and patterns in the path (CN1001 to IC202).
No
Diagnose the DSP Assy.
Yes
(b)
CN1001 (Pin 27)
LRCKI
O
Is there a clock?
No
Check the parts and patterns in the path (CN1001 to IC202).
No
Diagnose the DSP Assy.
Yes
(b)
CN1001 (Pin 18)
DATAI
O
Is there a data?
No
Check the parts and patterns in the path (CN1001 to IC202).
No
Diagnose the DSP Assy.
Yes
(b)
IC202 (Pins 1,4,10,13)
XBAOUT
M-2
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 to IC202). If IC501 is failure, replace IC501.
Yes
(a)(b)
IC201 (Pin 2)
MCLK
I
Is there a clock?
No
Check the parts and patterns in the path (IC101 to IC201, IC202 and IC301). If IC101 is failure, replace IC101.
Yes
(a)
IC201 (Pin 9)
SPDIF
J
Is there a SPDIF?
No
Check the parts and patterns in the path (IC101 to IC201, IC301). If IC101 is failure, replace IC101.
Yes
(a)(b)
IC201 (Pin 3)
SCK(BCK)
K-1
Is there a clock?
No
Check the parts and patterns in the path (IC101 to IC201, IC202 and IC301). If IC101 is failure, replace IC101.
Yes
(a)(b)
IC201 (Pin 4)
WS(LRCK)
K-2
Is there a clock?
No
Check the parts and patterns in the path (IC101 to IC201, IC202 and IC301). If IC101 is failure, replace IC101.
Yes
(a)(b)
IC201 (Pin 5)
SD0(DATA)
L-1
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC201, IC202 and IC301). If IC101 is failure, replace IC101.
Yes
(a)
IC201 (Pin 6)
SD1(DATA)
L-2
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC201, IC301). If IC101 is failure, replace IC101.
Yes
E


E
(a)
IC201 (Pin 7)
SD2(DATA)
L-3
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC201, IC301). If IC101 is failure, replace IC101.
Yes
(a)
IC201 (Pin 8)
SD3(DATA)
L-4
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC201, IC301). If IC101 is failure, replace IC101.
Yes
(a)
IC201 (Pin 19)
DA_OFF
M-1
Is there voltage "L"(AMP MODE) or "H"(THROUGH MODE)?
No
Check the parts and patterns in the path (IC501 to IC202). If IC501 is failure, replace IC501.
Yes
(a)
CN1001 (Pin 10)
MCLK
O
Is there a clock?
No
Check the parts and patterns in the path (IC202 and IC203 to CN1001). If IC202 or IC203 is failure, replace IC202 or IC203.
Yes
(a)
CN1001 (Pin 22)
SPDIF
O
Is there a SPDIF?
No
Check the parts and patterns in the path (IC202 to CN1001). If IC202 is failure, replace IC202.
Yes
(a)
CN1001 (Pin 12)
SCK(BCK)
O
Is there a clock?
No
Check the parts and patterns in the path (IC202 to CN1001). If IC202 is failure, replace IC202.
Yes
(a)
CN1001 (Pin 13)
WS(LRCK)
O
Is there a clock?
No
Check the parts and patterns in the path (IC202 to CN1001). If IC202 is failure, replace IC202.
Yes
(a)
CN1001 (Pin 14 to 17)
SD0-3(DATA)
O
Is there a data?
No
Check the parts and patterns in the path (IC202 to CN1001). If IC202 is failure, replace IC202.
Yes
(a)
CN1001 (Pin 8)
MUTEOUT
O
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 to CN1001). If IC501 is failure, replace IC501.
Diagnose the DSP Assy.

Video converter section

Step 3-1: Power Supply

V+5A — 5 V (VIDEO BUFFER) **V+5A**

Is the voltage 5 V?
- No → Check the patterns in the path and L1001. If L1001 is failure, replace L1001.
- Yes

V+3DE — 3.3 V (VIDEO DEC) **V+3DE**

Is the voltage 3.3 V?
- No → Check the patterns in the path and L401. If L401 is failure, replace L401.
- Yes

3.3V_DE1 — 3.3 V (VIDEO DEC) **3.3V_DE1**

Is the voltage 3.3 V?
- No → Check the patterns in the path and L404. If L404 is failure, replace L404.
- Yes

IC904 (Pin 1) — 1.8 V (VIDEO DEC) **V+1R8VC**

Is the voltage 1.8 V?
- No → Check the patterns in the path and IC905 and IC904. If IC905 or IC904 is failure, replace IC905 or IC904.
- Yes

1.8V_DE1 — 1.8 V (VIDEO DEC) **V+1R8DE**

Is the voltage 1.8 V?
- No → Check the patterns in the path and L402. If L402 is failure, replace L402.
- Yes

1.8V_DE2 — 1.8 V (VIDEO DEC) **1.8V_DE1**

Is the voltage 1.8 V?
- No → Check the patterns in the path and L403. If L403 is failure, replace L403.
- Yes

3.3V_EN1 — 3.3 V (VIDEO E/VC) **3.3V_EN1**

Is the voltage 3.3 V?
- No → Check the patterns in the path and L701. If L701 is failure, replace L701.
- Yes

3.3V_EN2 — 3.3 V (VIDEO ENC) **3.3V_EN2**

Is the voltage 3.3 V?
- No → Check the patterns in the path and L702. If L702 is failure, replace L702.
- Yes

Step 3-2: Video Input

* When source is inputted from Composite.

CN1002 (Pin 1) — CVBS IN **a**

Is there a composite signal?
- No → Diagnose the MAIN CONTROL Assy or COMPOSITE Assy.
- Yes

* When source is inputted from S-VIDEO.

CN1002 (Pin 5) — SY IN **a**

Is there a Y signal?
- No → Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.
- Yes

* When source is inputted from S-VIDEO.

CN1002 (Pin 7) — SC IN **a**

Is there a C signal?
- No → Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.
- Yes

* When source is inputted from Component.

CN1002 (Pin 13) — Y IN **a**

Is there a Y signal?
- No → Diagnose the MAIN CONTROL Assy or COMPONENT Assy.
- Yes

* When source is inputted from Component.

CN1002 (Pin 15) — Pb IN **a**

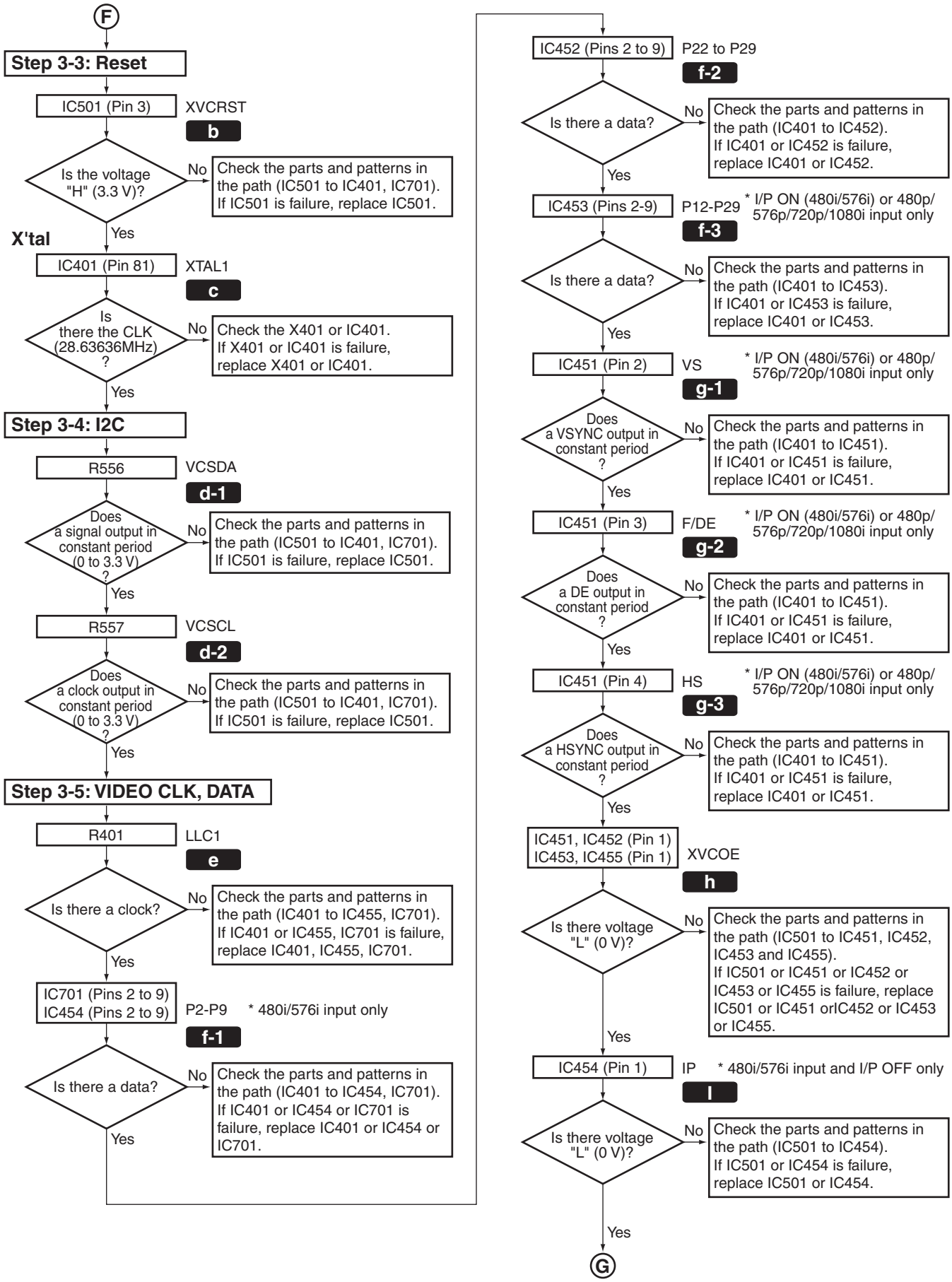
Is there a Pb signal?
- No → Diagnose the MAIN CONTROL Assy or COMPONENT Assy.
- Yes

* When source is inputted from Component.

CN1002 (Pin 17) — Pr IN **a**

Is there a Pr signal?
- No → Diagnose the MAIN CONTROL Assy or COMPONENT Assy.
- Yes

(F)


F
Step 3-3: Reset
IC501 (Pin 3)
XVCRST
b
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path (IC501 to IC401, IC701). If IC501 is failure, replace IC501.
Yes
X'tal
IC401 (Pin 81)
XTAL1
c
Is there the CLK (28.63636MHz) ?
No
Check the X401 or IC401. If X401 or IC401 is failure, replace X401 or IC401.
Yes
Step 3-4: I2C
R556
VCSDA
d-1
Does a signal output in constant period (0 to 3.3 V) ?
No
Check the parts and patterns in the path (IC501 to IC401, IC701). If IC501 is failure, replace IC501.
Yes
R557
VCSCL
d-2
Does a clock output in constant period (0 to 3.3 V) ?
No
Check the parts and patterns in the path (IC501 to IC401, IC701). If IC501 is failure, replace IC501.
Yes
Step 3-5: VIDEO CLK, DATA
R401
LLC1
e
Is there a clock?
No
Check the parts and patterns in the path (IC401 to IC455, IC701). If IC401 or IC455, IC701 is failure, replace IC401, IC455, IC701.
Yes
IC701 (Pins 2 to 9) IC454 (Pins 2 to 9)
P2-P9
* 480i/576i input only
f-1
Is there a data?
No
Check the parts and patterns in the path (IC401 to IC454, IC701). If IC401 or IC454 or IC701 is failure, replace IC401 or IC454 or IC701.
Yes
IC452 (Pins 2 to 9)
P22 to P29
f-2
Is there a data?
No
Check the parts and patterns in the path (IC401 to IC452). If IC401 or IC452 is failure, replace IC401 or IC452.
Yes
IC453 (Pins 2-9)
P12-P29
* I/P ON (480i/576i) or 480p/576p/720p/1080i input only
f-3
Is there a data?
No
Check the parts and patterns in the path (IC401 to IC453). If IC401 or IC453 is failure, replace IC401 or IC453.
Yes
IC451 (Pin 2)
VS
* I/P ON (480i/576i) or 480p/576p/720p/1080i input only
g-1
Does a VSYNC output in constant period ?
No
Check the parts and patterns in the path (IC401 to IC451). If IC401 or IC451 is failure, replace IC401 or IC451.
Yes
IC451 (Pin 3)
F/DE
* I/P ON (480i/576i) or 480p/576p/720p/1080i input only
g-2
Does a DE output in constant period ?
No
Check the parts and patterns in the path (IC401 to IC451). If IC401 or IC451 is failure, replace IC401 or IC451.
Yes
IC451 (Pin 4)
HS
* I/P ON (480i/576i) or 480p/576p/720p/1080i input only
g-3
Does a HSYNC output in constant period ?
No
Check the parts and patterns in the path (IC401 to IC451). If IC401 or IC451 is failure, replace IC401 or IC451.
Yes
IC451, IC452 (Pin 1) IC453, IC455 (Pin 1)
XVCOE
h
Is there voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 to IC451, IC452, IC453 and IC455). If IC501 or IC451 or IC452 or IC453 or IC455 is failure, replace IC501 or IC451 orIC452 or IC453 or IC455.
Yes
IC454 (Pin 1)
IP
* 480i/576i input and I/P OFF only
I
Is there voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 to IC454). If IC501 or IC454 is failure, replace IC501 or IC454.
Yes
G

Ⓖ

Step 3-6: Video Output (480i/576i only)

IC701 (Pin 35) DACA **j-1**

Is there a composite signal?
- No → Check the parts and patterns in the path (IC701 to R731, Q731). If IC701 or R731 or R732 or Q731 is failure, replace it.
- Yes → CN1002 (Pin 3) CVBS OUT **a**

Is there a composite signal?
- No → Check the parts and patterns in the path (Q731 to CN1002). If Q731 or R733 is failure, replace Q731 or R733.
- Yes → Diagnose the MAIN CONTROL Assy or COMPOSITE Assy.

IC701 (Pin 28) DACD **j-4**

Is there a C signal?
- No → Check the parts and patterns in the path (IC701 to R761, Q761). If IC701 or R761 or R762 or Q761 is failure, replace it.
- Yes → CN1002 (Pin 19) Y OUT **a**

Is there a Y signal?
- No → Check the parts and patterns in the path (Q761 to CN1002). If Q761 or R763 is failure, replace Q761 or R763.
- Yes → Diagnose the MAIN CONTROL Assy or COMPONENT Assy.

IC701 (Pin 33) DACB **j-2**

Is there a Y signal?
- No → Check the parts and patterns in the path (IC701 to R741, Q741). If IC701 or R741 or R742 or Q741 is failure, replace it.
- Yes → CN1002 (Pin 9) SY OUT **a**

Is there a Y signal?
- No → Check the parts and patterns in the path (Q741 to CN1002). If Q741 or R743 is failure, replace Q741 or R743.
- Yes → Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.

IC701 (Pin 25) DACE **j-5**

Is there a Pb signal?
- No → Check the parts and patterns in the path (IC701 to R771, Q771). If IC701 or R771 or R772 or Q771 is failure, replace it.
- Yes → CN1002 (Pin 21) Pb OUT **a**

Is there a Pb signal?
- No → Check the parts and patterns in the path (Q771 to CN1002). If Q771 or R773 is failure, replace Q771 or R773.
- Yes → Diagnose the MAIN CONTROL Assy or COMPONENT Assy.

IC701 (Pin 29) DACC **j-3**

Is there a C signal?
- No → Check the parts and patterns in the path (IC701 to R751, Q751). If IC701 or R751 or R752 or Q751 is failure, replace it.
- Yes → CN1002 (Pin 11) SC OUT **a**

Is there a C signal?
- No → Check the parts and patterns in the path (Q751 to CN1002). If Q751 or R753 is failure, replace Q751 or R753.
- Yes → Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.

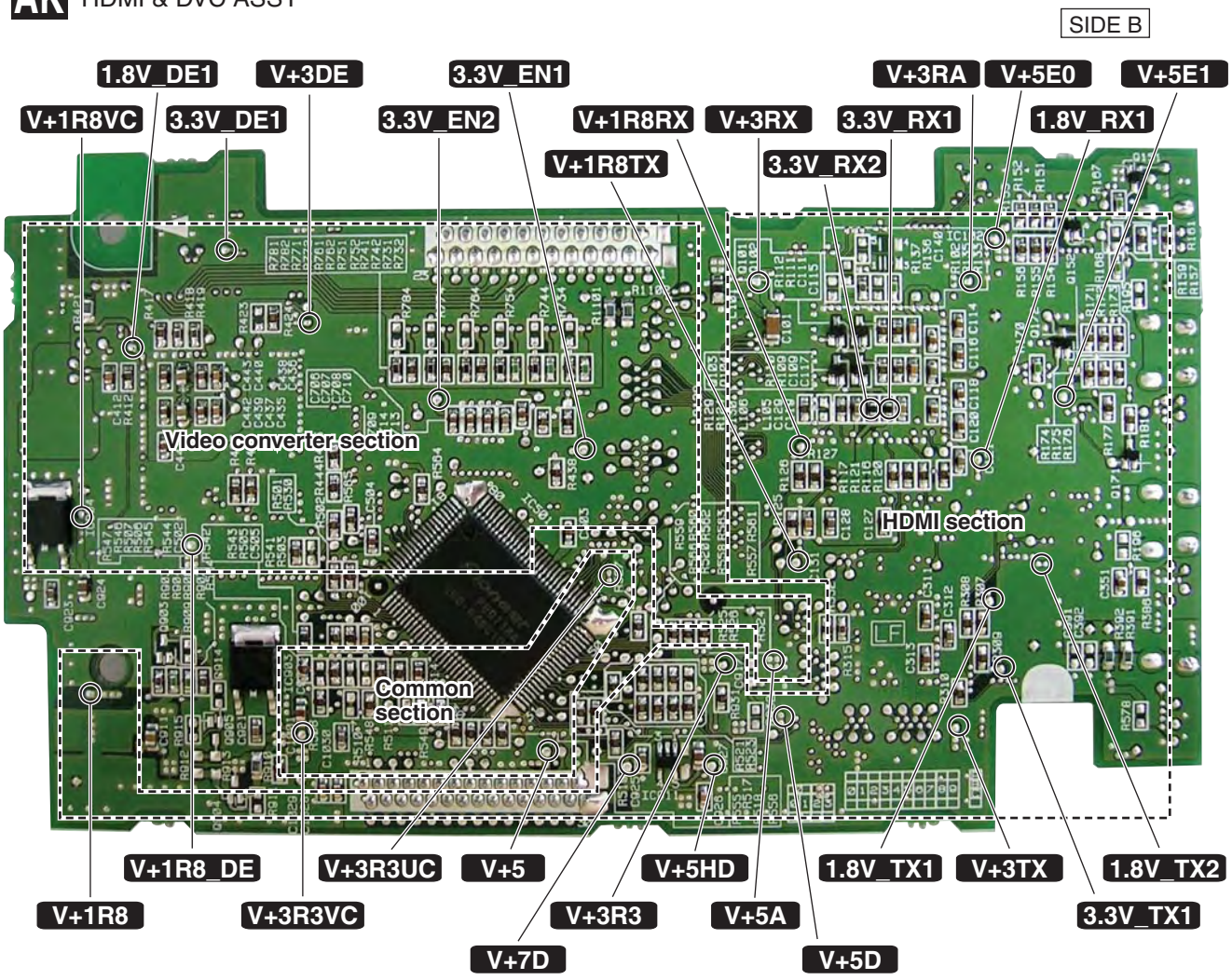
IC701 (Pin 24) DACF **j-6**

Is there a Pr signal?
- No → Check the parts and patterns in the path (IC701 to R781, Q781). If IC701 or R781 or R782 or Q781 is failure, replace it.
- Yes → CN1002 (Pin 23) Pr OUT **a**

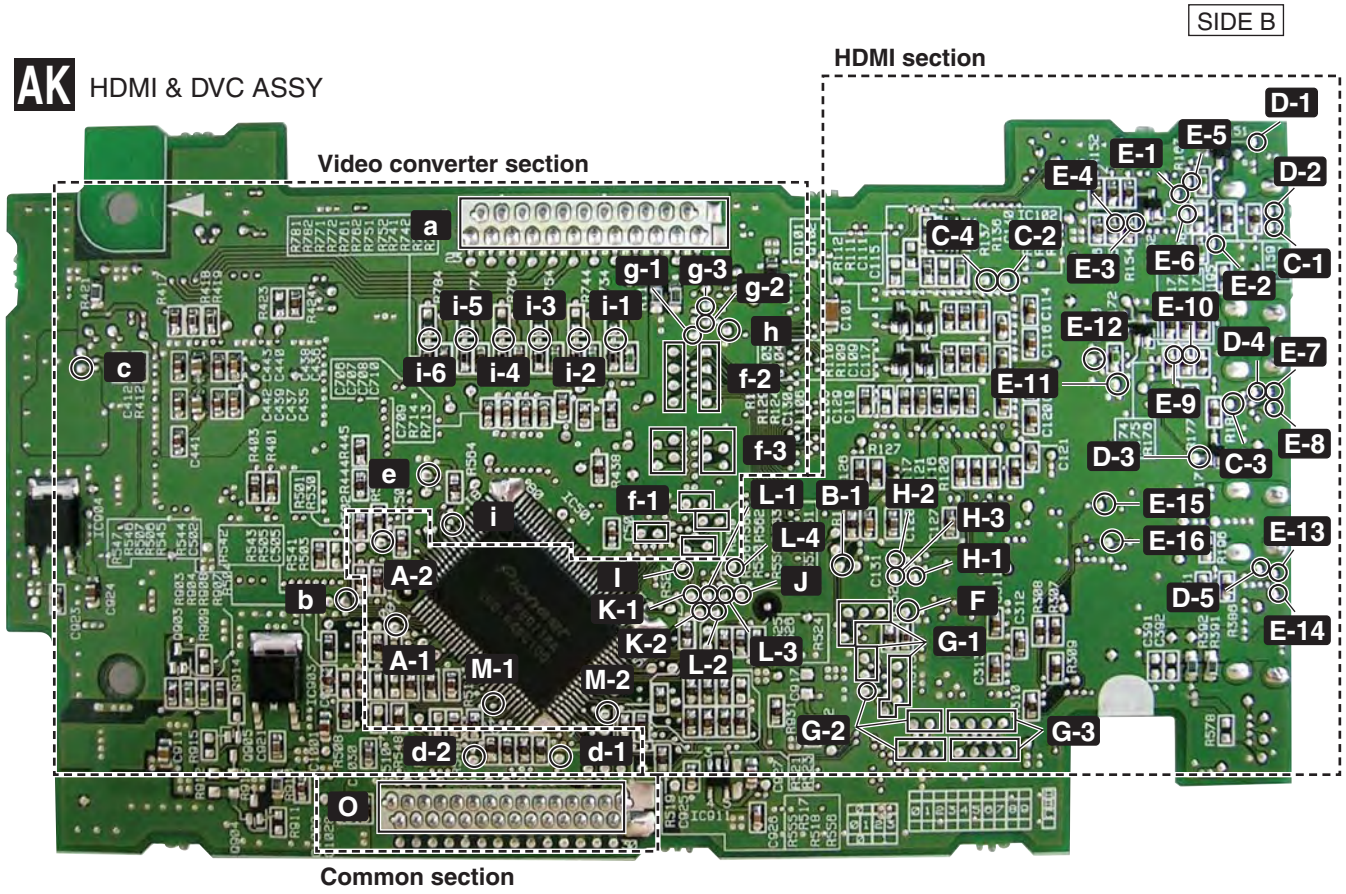
Is there a Pr signal?
- No → Check the parts and patterns in the path (Q781 to CN1002). If Q781 or R783 is failure, replace Q781 or R783.
- Yes → Diagnose the MAIN CONTROL Assy or COMPONENT Assy.

■ HDMI & DVC Assy Check Points (Power supply section)

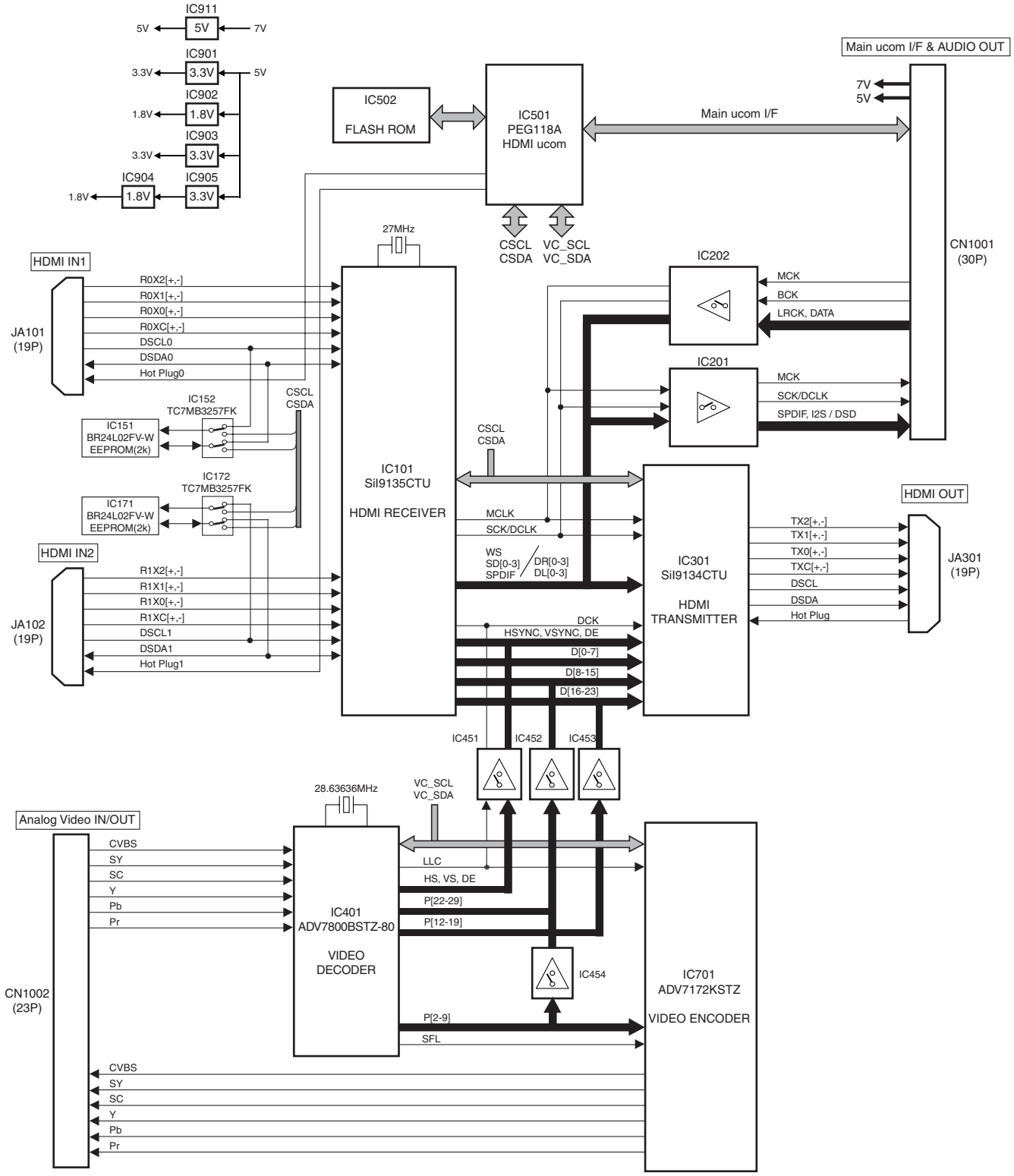
AK HDMI & DVC ASSY



■ HDMI & DVC Assy Check Points (Signal section)



■ HDMI&DVC ASSY Block Diagram



5.1.3 USB MODULE (VSX-LX50 Only)

■ Description of Error Indications

FL Display	Error Content	Possible causes and actions to be taken
USB ERROR1	Detection of overcurrent to a USB device	Overcurrent (500 mA or more) is consumed at the connected USB device. • Some USB devices, such as a portable HDD, need more current than that this unit supplies. (Use the AC adaptor for the connected USB device.) • The USB power is short-circuited.
USB ERROR2	Detection of a medium not supported	A USB device that this unit does not support (other than the Mass Storage Class) is connected (such as a mouse, printer, or digital camera). • Connect a mass storage class USB device.
USB ERROR3	Communication error with the system microcomputer	Communication between TCC8600-00X-EA-UG (IC701) and PEG378A (IC101) failed. • Defective connection (connectors) inside this unit • See STEP 3 of Troubleshooting.

■ Operations when overcurrent to a USB device is detected

(1) Overcurrent to a USB device is detected at the port for the microcomputer.

(2) The power supply to the USB device is stopped.

(3) Control of 5 V power is disabled at the port for the microcomputer.

(4) Change of indications on the FL display

Flashes for 2 sec.

`USB ERR1`

⇩ Lights up after flashing for 2 sec.

`USB ERR1`

(5) To supply power to the USB module again:

- Turn the power to the unit off then back on.
- Set the function setting to anything other than USB then back to USB.
- Press the USB play key on the remote control unit.

(6) After overcurrent is detected, if the USB play key is pressed while the error indication is displayed, power supply to the USB module is restored. If overcurrent is no longer detected, the indications shown below are displayed (normal indication):

`USB`

In this state, flashing of "USB ERROR1" stops, but playback will not start. To start playback, press the USB play key again.

In the above case, if overcurrent is detected again, the above procedures 1 through 4 are repeated.

■ In a case where a medium not supported is connected

(1) Change of indications on the FL displays

Flashes for 2 sec.

`USB ERR2`

⇩ Lights up after flashing for 2 sec.

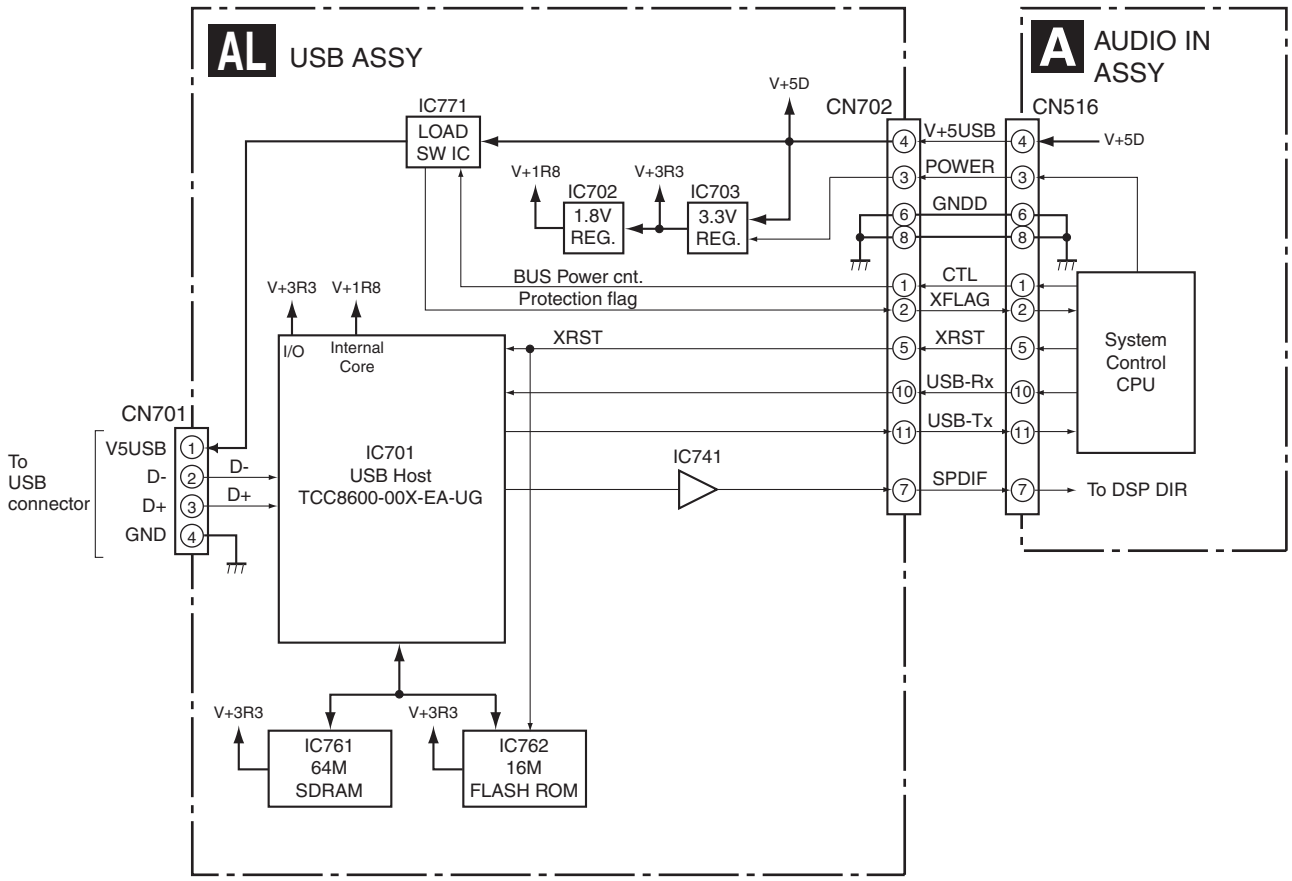
`USB ERR2`

If overcurrent is detected before detection of a non-supported medium, the error indication "USB ERROR1" remains, as the power supply to the USB module is stopped.

On supported media

The formats of supported media that can be played back on this unit are MP3, WMA, and AAC.
Some media in MPEG4 can also be played back. As AAC derives from MPEG4 codec, playback of media in AAC codec of MPEG4 is possible.

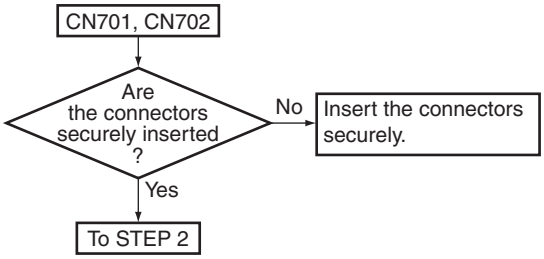
■ Block Diagram of the USB Assy



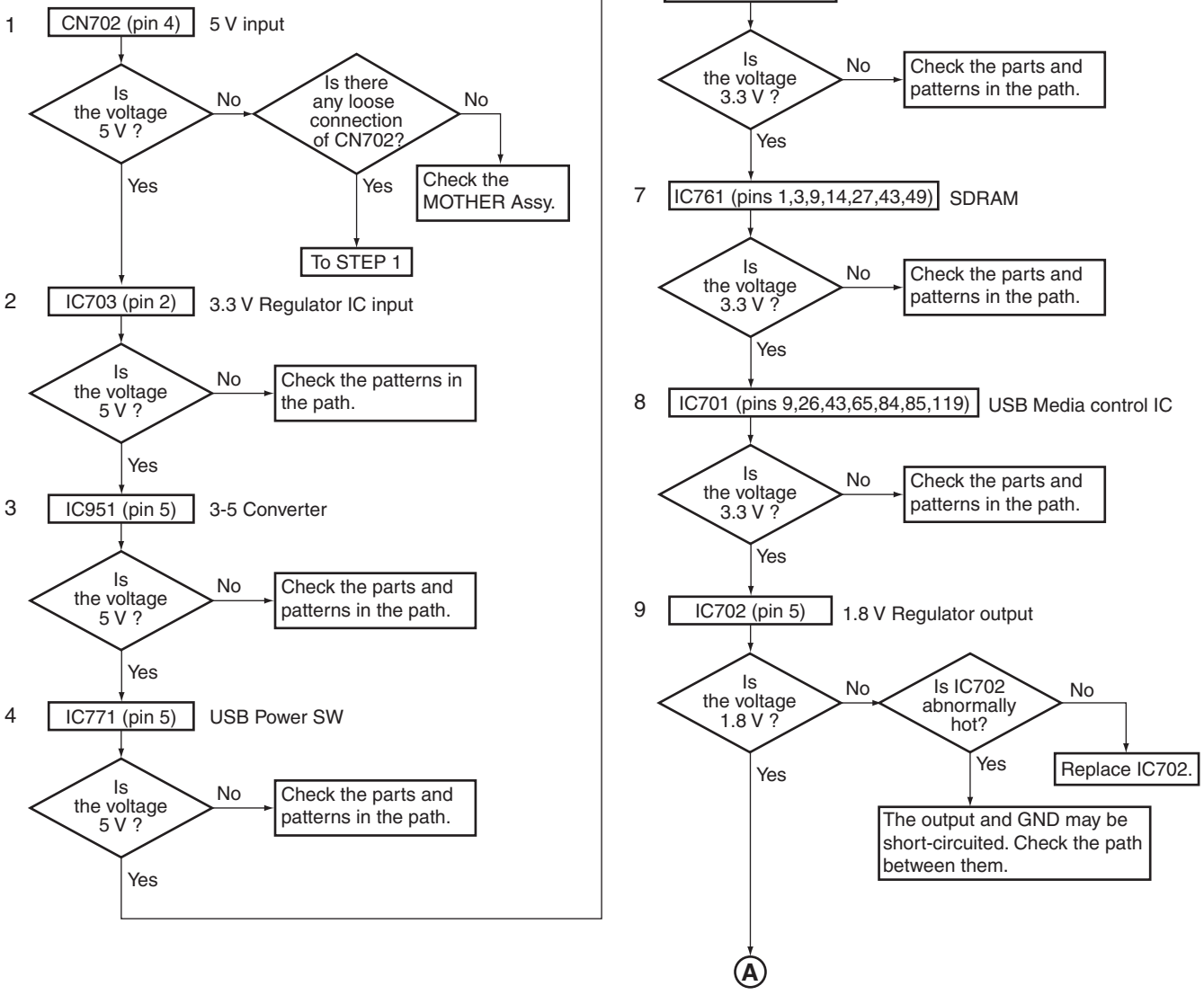
Main parts	Purpose
TCC8600-00X-EA-UG	: USB Host control decoder (MP3/WMA/MPEG-4AAC)
16M FLASH ROM	: Firmware is stored
64M SDRAM	: Temporary storage area of decoding music file
LOAD SWITCH	: Current limitation to USB device power

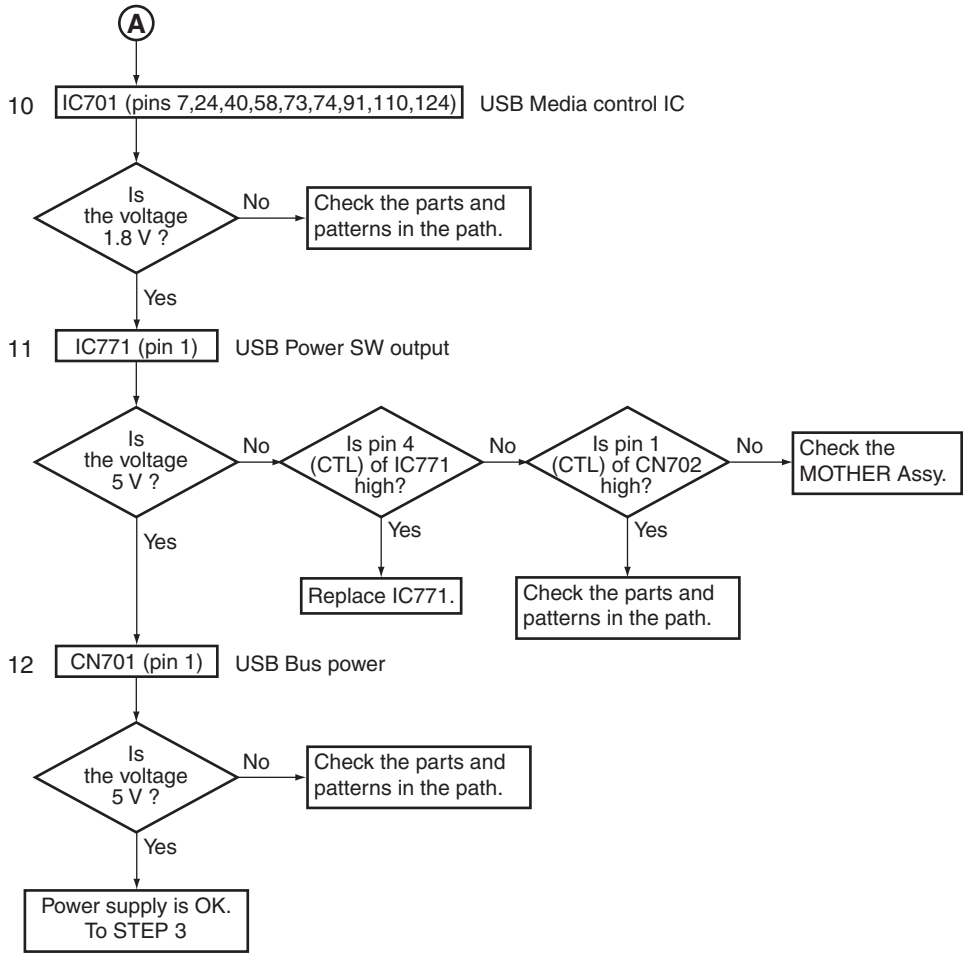
■ USB Troubleshooting

Step 1: Connectors



Step 2: Power supply





Step 3: Operation of USB Media control IC

Note: Please confirm it with the USB memory connected for the content.

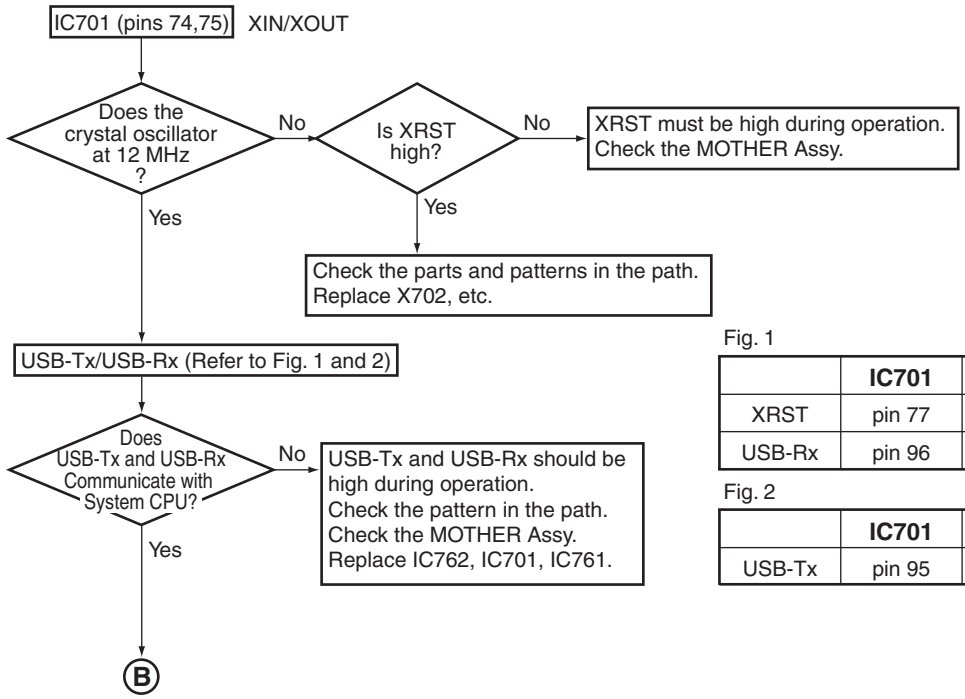


Fig. 1

	IC701		CN702
XRST	pin 77	R951	pin 5
USB-Rx	pin 96	R955	pin 10

Fig. 2

	IC701	IC951 (3 V → 5 V)		CN702
USB-Tx	pin 95	pin 2	pin 4	pin 11

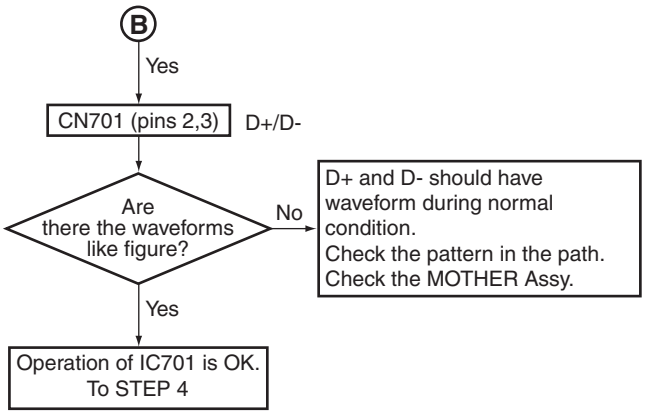
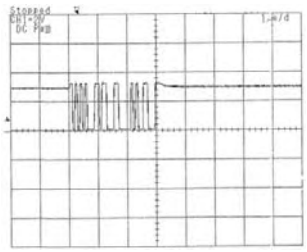
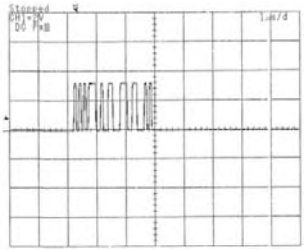


Fig. D+



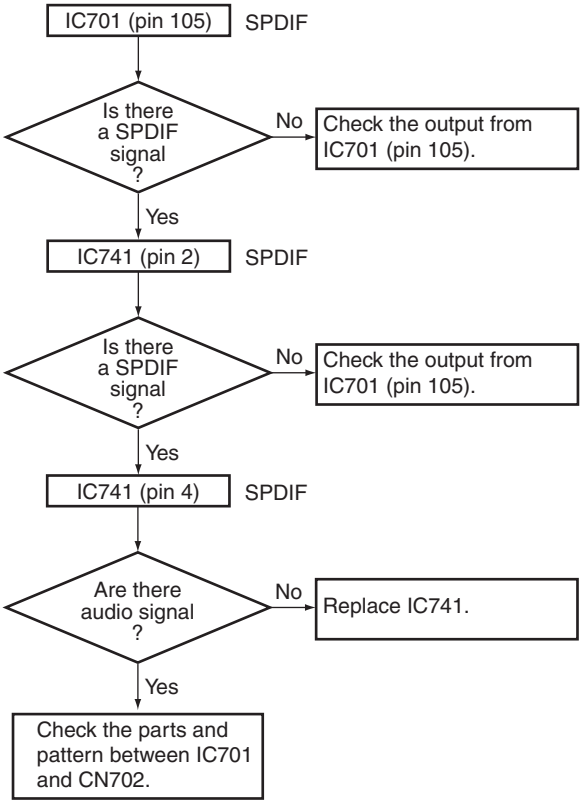
X: 1 μsec/div, Y: 2 V/div

Fig. D-



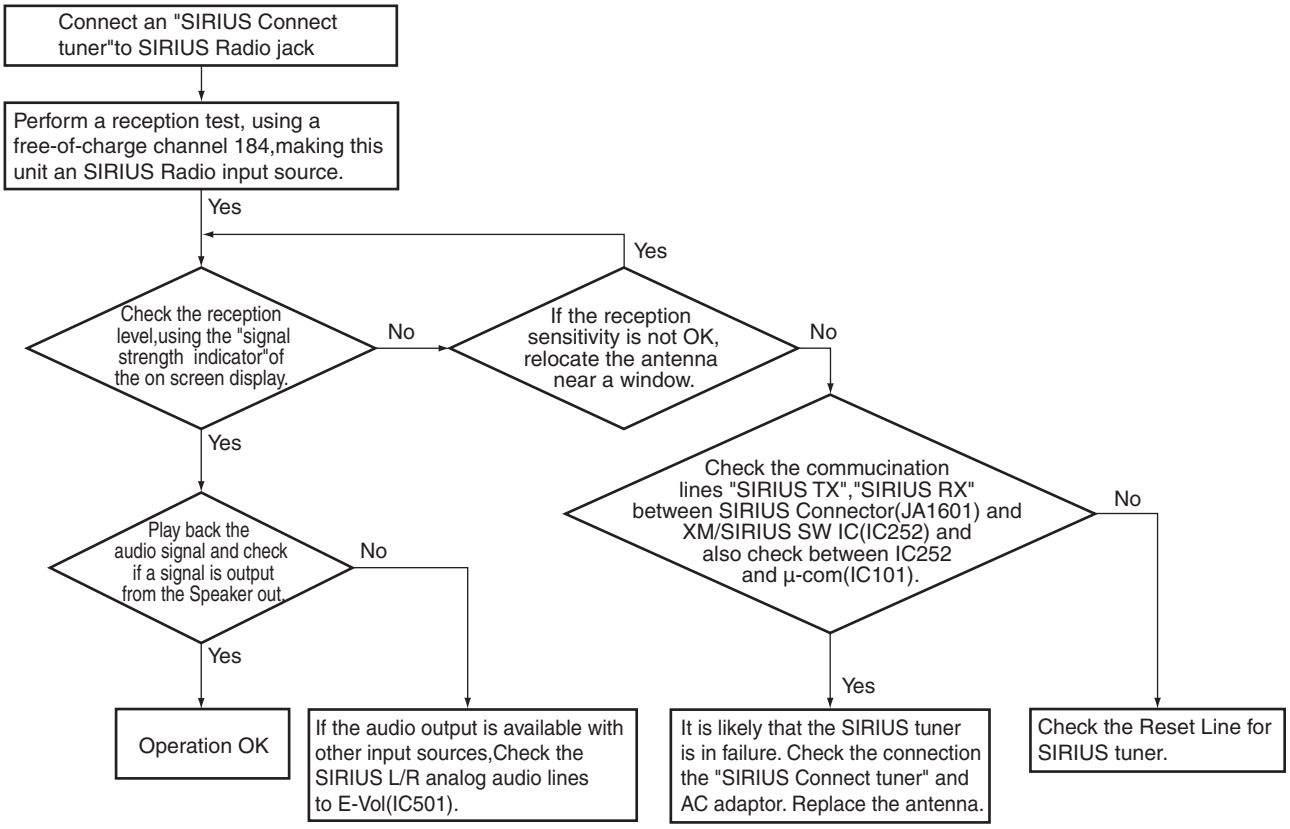
X: 1 μsec/div, Y: 2 V/div

Step 4: Audio Out check



5.1.4 SIRIUS BLOCK TROUBLESHOOTING (VSX-91TXH/VSX-9120TXH Only)

Step 1 : Connectors

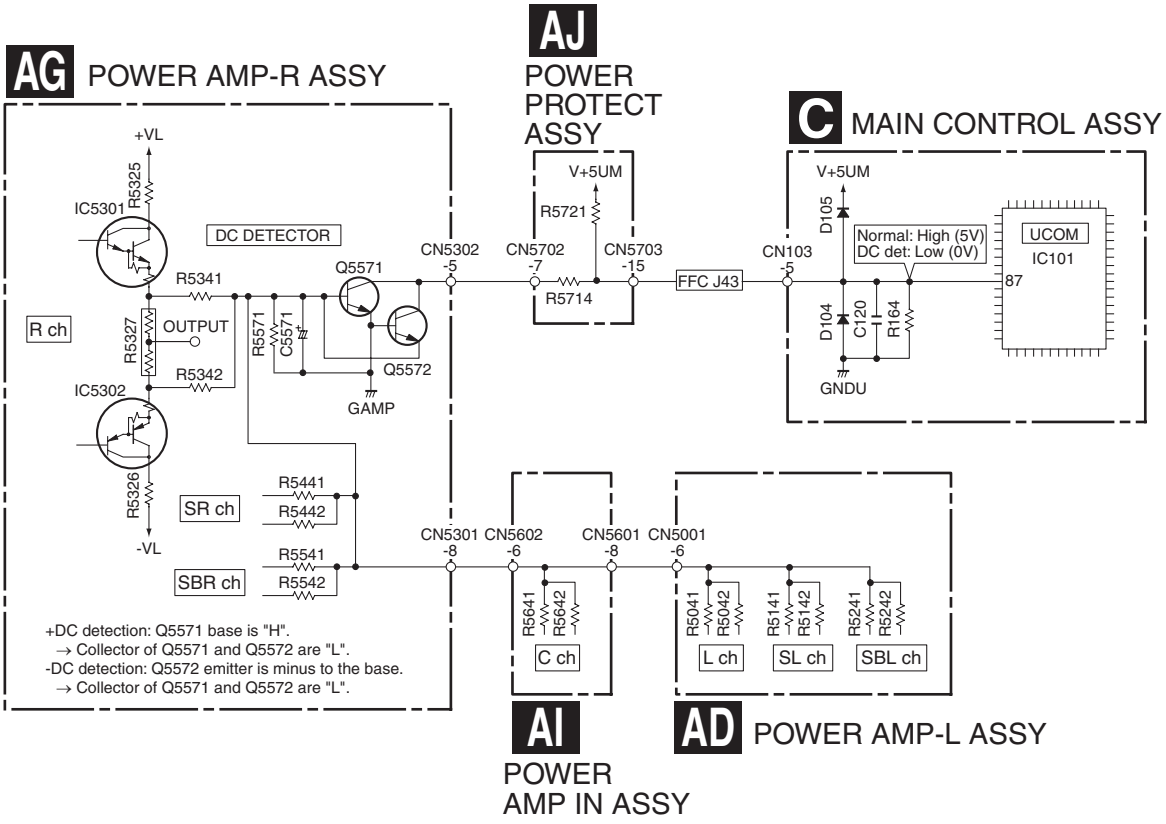


5.2 CIRCUIT DESCRIPTION
5.2.1 PROTECTION CIRCUIT SPECIFICATION

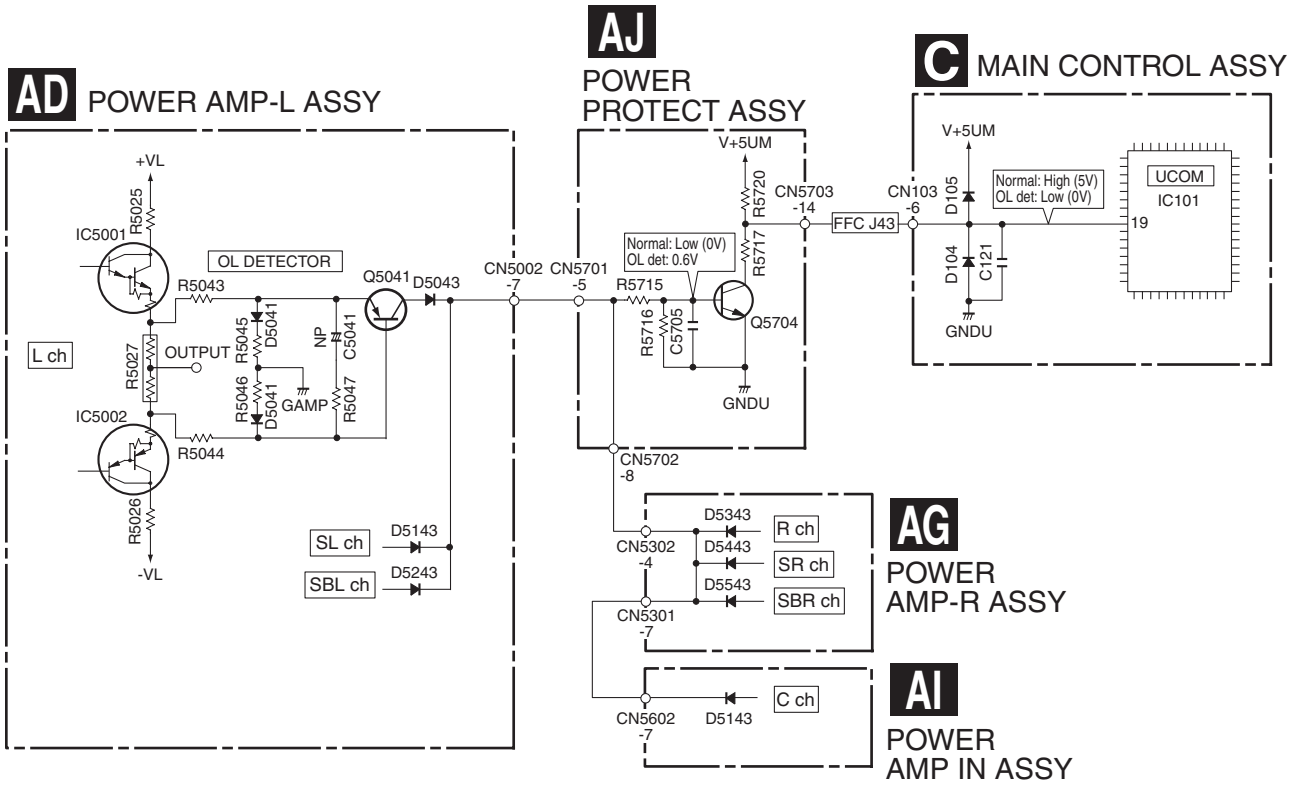
● Protection Circuit Process List

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 87 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 "H" 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 19 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 44 of IC2301)	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 decoms "H". (Pin 44 of IC2301)	Turns 12V trigger output to off.	Flashing "12V TRG ERR"	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



6. SERVICE MODE
6.1 TEST MODE

■ Version indication

[Purpose]

The versions for various microcomputers and DSP firmware are displayed.

[How to enter/exit]

HY model:

During Standby mode, simultaneously press and hold the “STANDBY/ON” and “SOUND RETRIEVER” key for 5 seconds to enter this mode.

KU model:

During Standby mode, simultaneously press and hold the “STANDBY/ON” and “MULTI CH IN” keys for 5 seconds to enter this mode.

This mode is automatically exited when the indications of all versions have finished.

[Basic operations]

FL Display	Description of Version Indications	Duration (sec.)	Devices that can be considered generally normal, with the corresponding indications
POWER OFF ↓ M1.000 F1.000	Mx.xxx : Main microcomputer Fx.xxx : Display microcomputer	5	Main microcomputer and display microcomputer
↓ D1.000 H1.000	Dx.xxx : DSP microcomputer Hx.xxx : HDMI microcomputer	5	DSP microcomputer and HDMI microcomputer
↓ f1.000 s1.000	fx.xxx : 1st DSP firmware sx.xxx : 2nd DSP firmware	5	1st DSP firmware : Flash ROM (IC106) near the DSP IC 2nd DSP firmware : Flash ROM within the DSP IC (IC201)
↓ Normal display			

[Notes]

1. If the version indication becomes "**," a failure in communications between the corresponding microcomputers or a failure in the corresponding microcomputers is likely.
2. In this submode, the user settings will not be cleared.

■ Detected protection history

[Purpose]

The numbers of detections for various protection processes are displayed.

[How to enter/exit]

HY model:
During Standby mode, simultaneously press and hold “DVR/VCR1” and “ENTER” keys for 5 seconds to enter this mode.
KU model:
During Standby mode, simultaneously press and hold “DVR1/DVR2” and “ENTER” keys for 5 seconds to enter this mode.
This mode is automatically exited when all the indications have finished.

[Basic operations]

FL Display		Description of Indications	Duration (sec.)
POWER OFF			
↓			
DC : 000		Number of DC detections	3
↓			
OVER: 010		Number of overload detections	3
↓			
CON : 002		Number of detections of cord disconnection (DC and OL DET line) (simultaneous detections of DC and OVERLOAD)	3
↓			
FAN : 002	(*)	Number of detections of fan abnormalities	3
↓			
TEMP: 255		Number of detections of abnormal temperature	3
↓			
Normal display			

(*) for KU models, ”FAN : 000” is always displayed.

[Description]

When the keys are pressed, the numbers of DC detections, overload detections, detections of connectors disconnection inside unit (It is detected by both DC and OVERLOAD detections.), detections of fan abnormalities, and detections of abnormal temperature are displayed for 3 seconds each, in that order.
The maximum value of each detections is 255.

■ 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.
FAN STOP (HY model Only)	When stopping of the fan is detected	Flashes 3 times.
OVERHEAT	When a thermal shutdown (abnormal temperature), etc. is detected	Flashes 3 times.
12V TRG ERR KUXJ and KUXJ/CA models only	When the 12-V trigger circuit is short-circuited	Flashes
XM Power Error KUXJ and KUXJ/CA models only	The power supply of the XM antenna is abnormally	Flashes

[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 Test mode, by proceeding with the steps described in "How to enter release mode" below.

FAN STOP (HY model Only) : The fan does not function.

OVERHEAT : The temperature of the amplifier is abnormally high.

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.

12V TRG ERR : The 12-V trigger output is short-circuited. (KUXJ and KUXJ/CA models only)

XM Power Error : Thepower supply of the XM antenna is abnormally. (KUXJ and KUXJ/CA models only)

[How to enter release mode]

Press and hold HY model : DVR/VCR2, KU model : VIDEO/GAME and ENTER keys on the front panel simultaneously for 5 seconds in standby mode.

7. DISASSEMBLY

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

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

- 11P board to board extension jig cable (GGD1482)
- 13P board to board extension jig cable (GGD1483)
- 15P board to board extension jig cable (GGD1484)
- 21P board to board extension jig cable (GGD1485)

1. Before the Power Amp Block is removed

Before the Power Amp Block is removed, discharge C3257 and C3258 on the TRANS 2-1 Assy, as indicated below.
If you don't, the IC protectors (IC3351 and IC3352) 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."

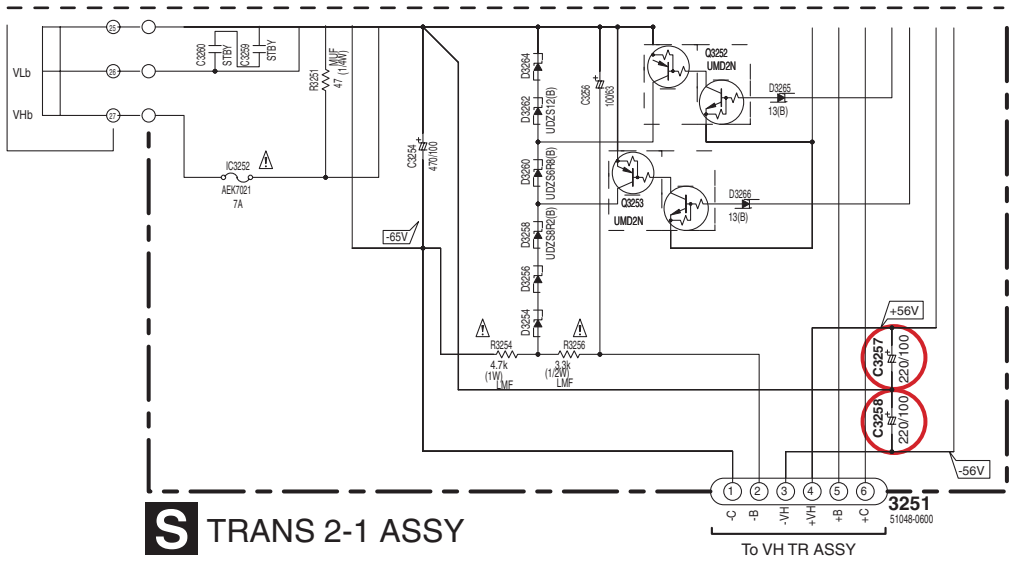
[Procedure]

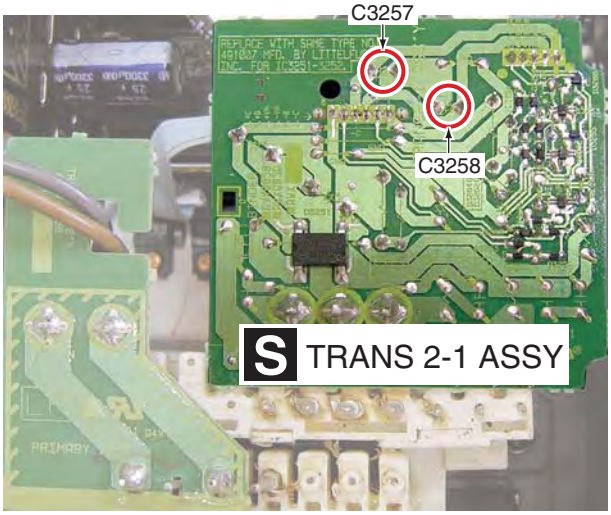
① Unplug the AC power cord.

② Discharge C3257 and C3258 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 C3257 and C3258 is 1V or less.

④ Reassembling the Power Amp Block.

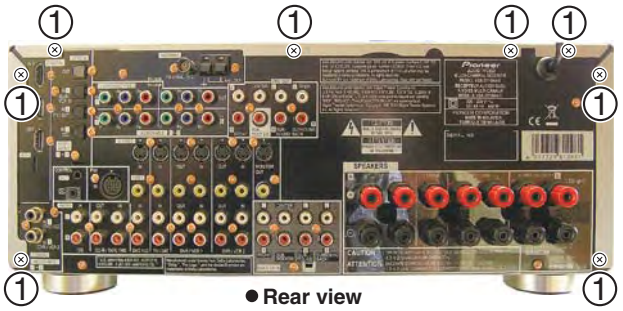




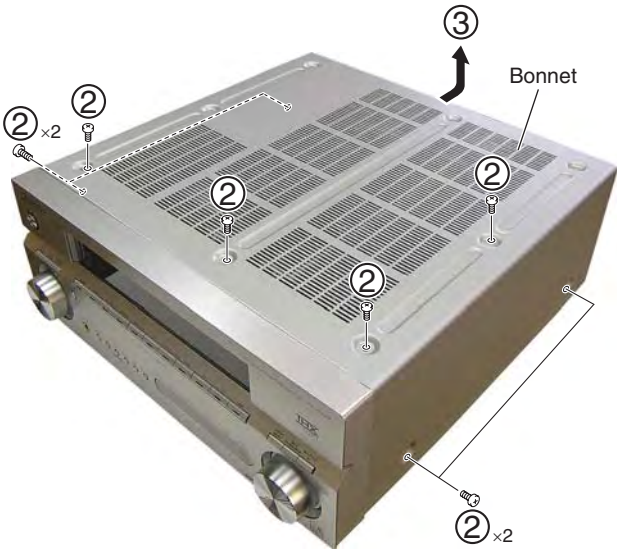
2. Disassembly

1 Bonnet

① Remove the eight screws.



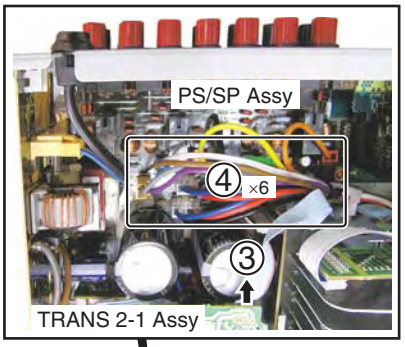
② Remove the eight screws.
③ Remove the bonnet.

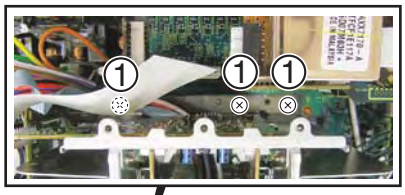


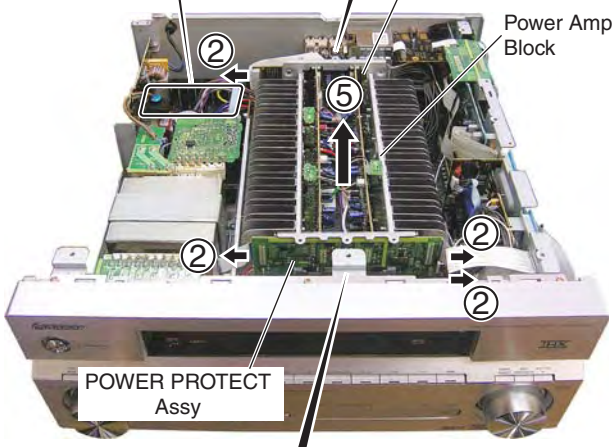
2 Power Amp Block

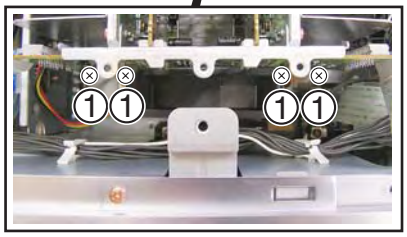
Caution:
Before removing the Power Amp Block, discharge C3257 and C3258 on the TRANS 2-1 Assy.
Refer to "1. Before the Power Amp Block is removed".

① Remove the seven screws.
② Disconnect the three flexible cables and the one connector.
③ Disconnect the one jumper wire.
④ Disconnect the six connectors.
⑤ Remove the power amp block.





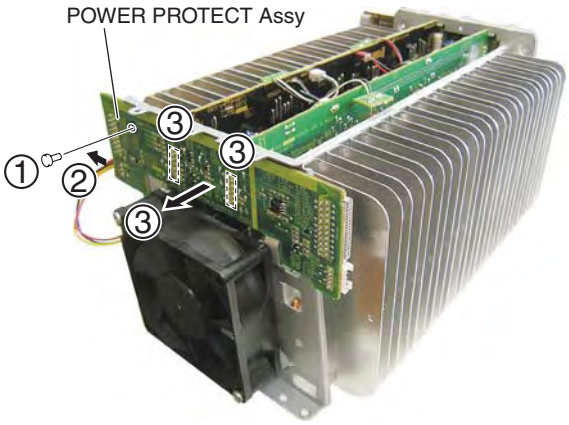




3 Replacing the Power Transistor

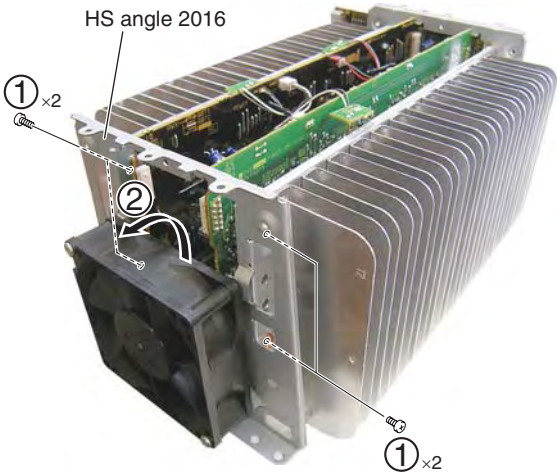
● POWER PROTECT Assy

① Remove the one nylon rivet.
② Disconnect the one connector. (VSX-LX50 only)
③ Remove the POWER PROTECT Assy by removing the two connectors.



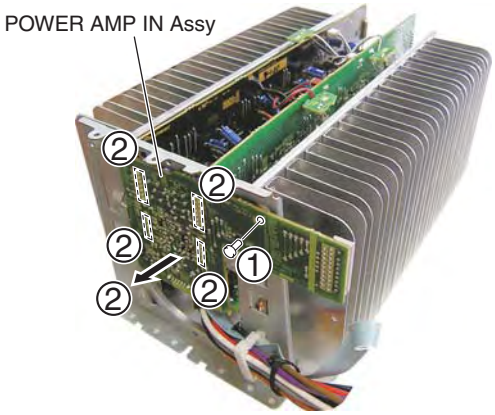
● HS Angle 2016

① Remove the four screws.
② Remove the HS angle 2016.



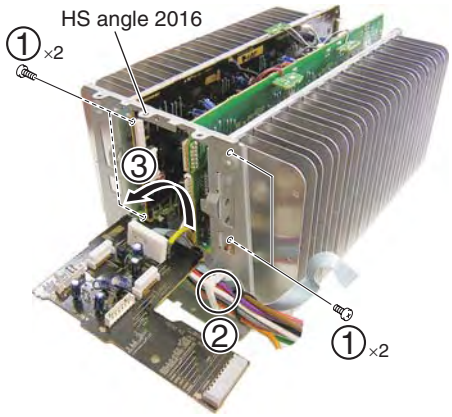
● POWER AMP IN Assy

① Remove the one nyron rivet.
② Remove the POWER AMP IN Assy by removing the four connectors.

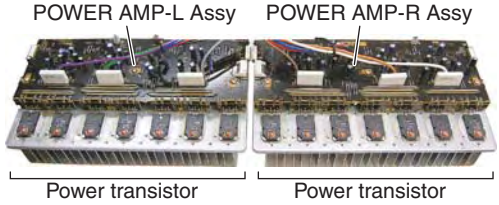


● HS Angle 2016

① Remove the four screws.
② Release the clamper.
③ Remove the HS angle 2016.



● Replacing the Power Transistor



Replace

4 Replacing the AUDIO IN Assy

● Rear Panel

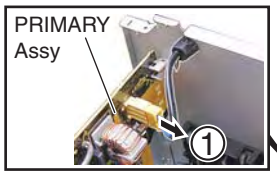
① Disconnect the one connector.

② Remove the four cushion circle 14B.

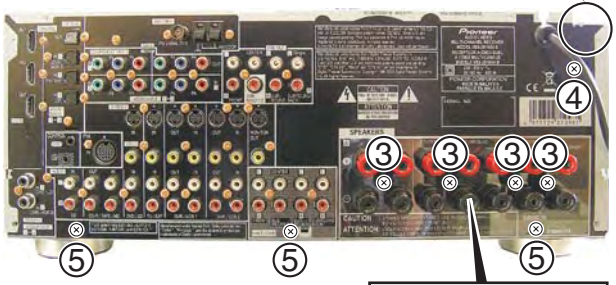
③ Remove the four screws.

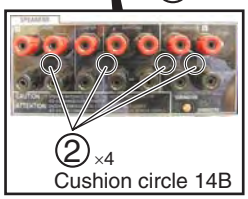
④ Remove the one screw.
(KU model: Remove the three screws.)

⑤ Remove the three screws.



● Rear view



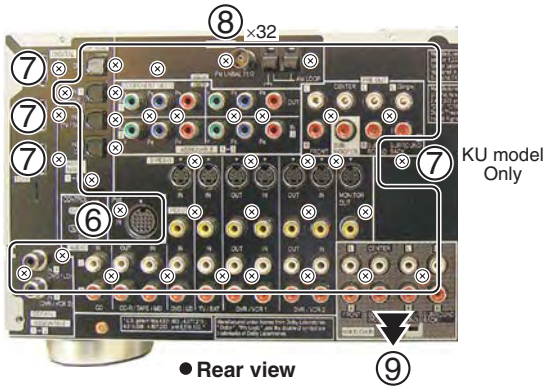


⑥ Remove the one screw.

⑦ Remove the three screws.
(KU model: Remove the 4 screws.)

⑧ Remove the 32 screws.
(KU model: Remove the 33 screws.)

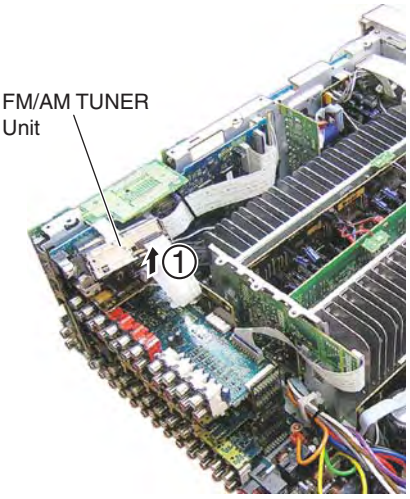
⑨ Remove the rear panel.



● Rear view

● FM/AM TUNER Unit

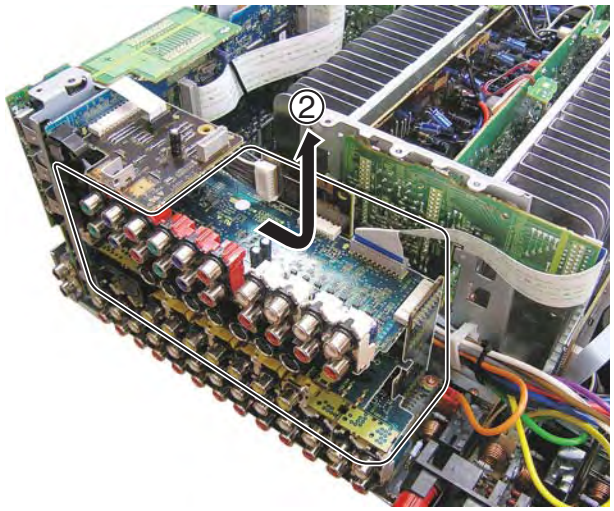
① Remove the FM/AM TUNER Unit by removing the one flexible cable.



● PCB Assys

① Disconnect cables, connectors, as required.

② First remove the BRIDGE 2 Assy, then remove the COMPOSITE, S-VIDEO, COMPONENT and VIDEO CONNECT Assys.



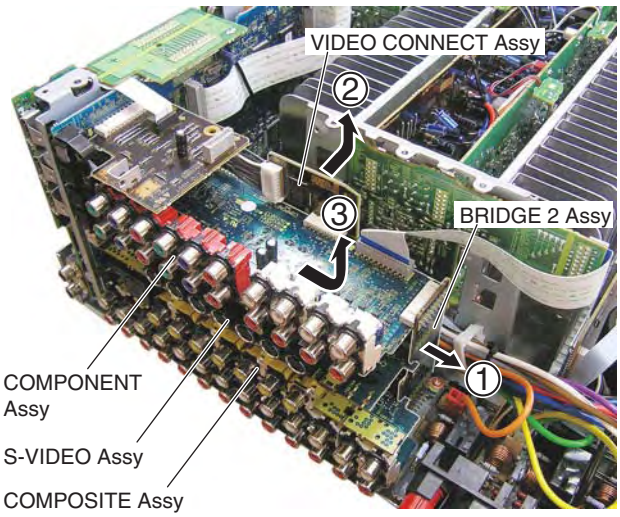
3. Diagnosis

1 Preparations

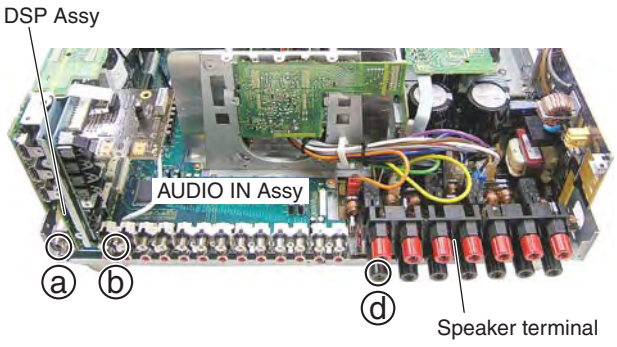
1. Remove the bonnet.
2. Remove the rear panel.

---

① Remove the BRIDGE 2 Assy.
② Remove the VIDEO CONNECT Assy.
③ Remove the COMPONET, S-VIDEO, COMPOSITE Assys.

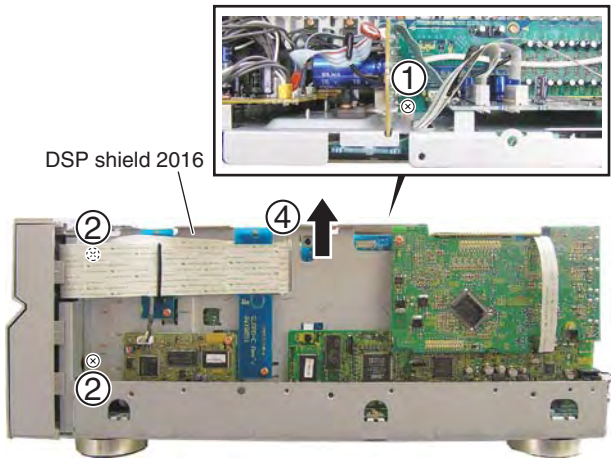


④ Connect the earth points to chassis as follows.
ⓐ Pin jack (GND) on the DSP Assy ↔ chassis
ⓑ Pin jack (L side GND) on the AUDIO IN Assy ↔ chassis
ⓒ Pin jack (Yellow GND) on the COMPOSITE Assy ↔ chassis
ⓓ Speaker terminal (L side black) ↔ chassis



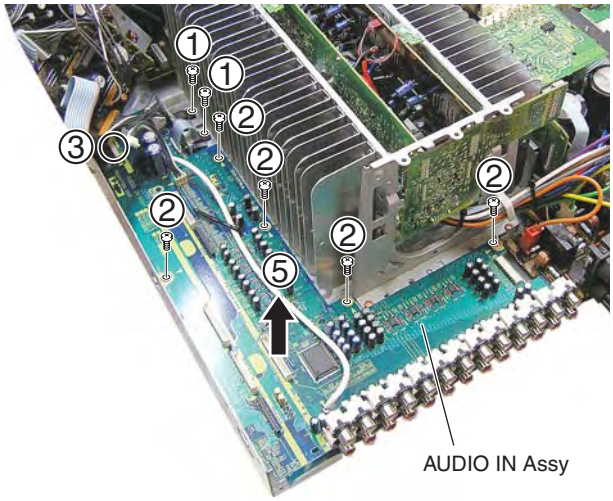
● **DSP Shield Section**

① Remove the one screw.
② Remove the two screws.
③ Disconnect cables, connectors, as required.
④ Remove the DSP shield 2016 with PCB Assemblies..



● **AUDIO IN Assy**

① Remove the two screws.
② Remove the five screws.
③ Release the locking card spacer.
④ Disconnect cables, connectors, as required.
⑤ Remove the AUDIO IN Assy.



2 Diagnosis

● COMPONENT Assy

Jig cable

- 11P board to board extension jig cable (GGD1482)
- 13P board to board extension jig cable (GGD1483) ×2

① Connect the three extension jig cables.

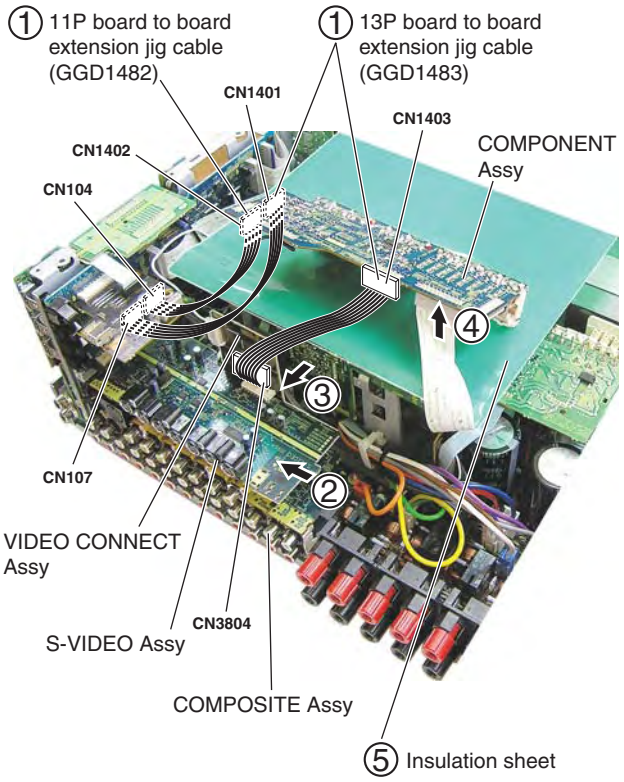
② Reassembling the S-VIDEO and COMPOSITE Assys.

③ Reassembling the VIDEO CONNECT Assy.

④ Connect the one flexible cable.

⑤ Insert the insulation sheet.

⑥ Arrange the unit as shown in the photo below.



Diagnosis

● S-VIDEO Assy

Jig cable

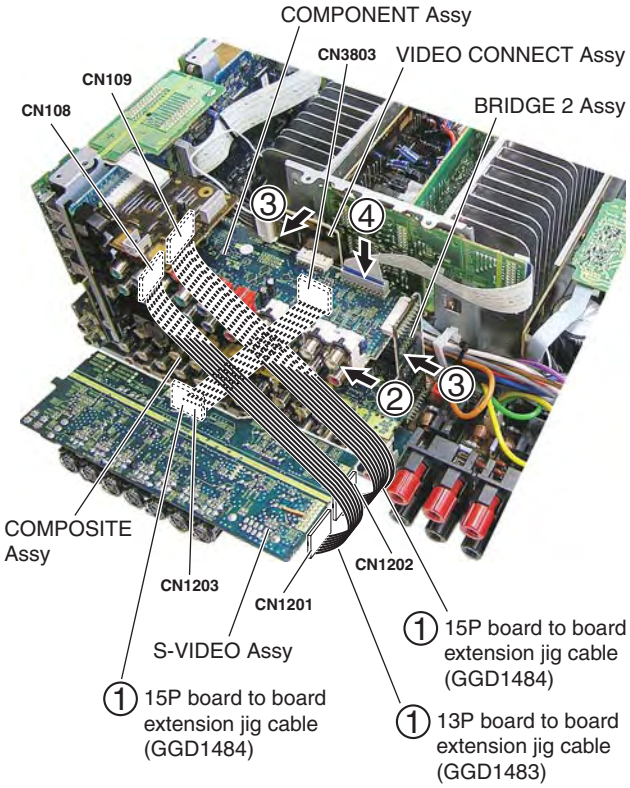
- 13P board to board extension jig cable (GGD1483)
- 15P board to board extension jig cable (GGD1484) ×2

① Connect the three extension jig cables.

② Reassembling the COMPONENT and COMPOSITE Assys.

③ Reassembling the BRIDGE 2 and VIDEO CONNECT Assys.

④ Connect the one flexible cable.



Diagnosis

● COMPOSITE Assy

Jig cable

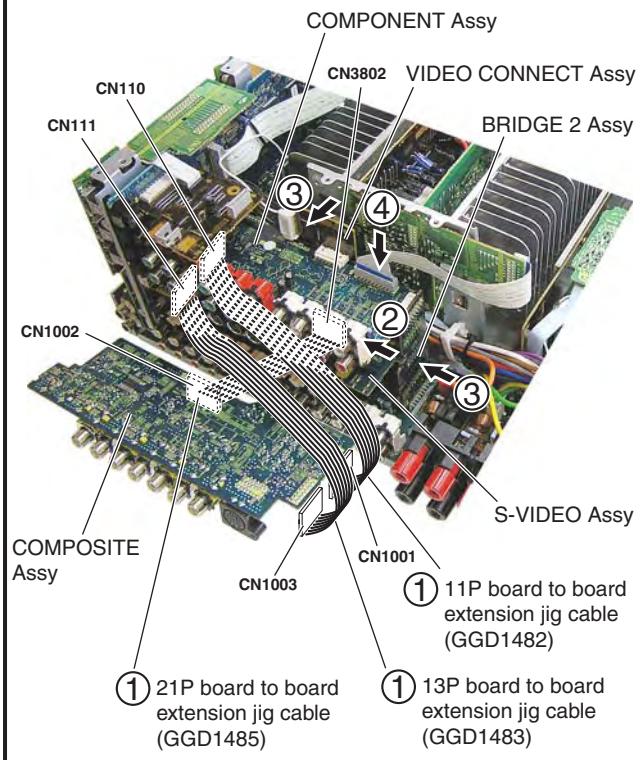
- 11P board to board extension jig cable (GGD1482)
- 13P board to board extension jig cable (GGD1483)
- 21P board to board extension jig cable (GGD1485)

① Connect the three extension jig cables.

② Reassembling the COMPONENT and S-VIDEO Assys.

③ Reassembling the BRIDGE 2 and VIDEO CONNECT Assys.

④ Connect the one flexible cable.



Diagnosis

8. EACH SETTING AND ADJUSTMENT

8.1 ADJUSTMENT

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

8.2 HOW TO UPDATE FIRMWARE

■ HDMI, MAIN and DSP microcomputer

[Purpose]

Refer to this section when updating the firmware of each microcomputer is required by the service information, etc.

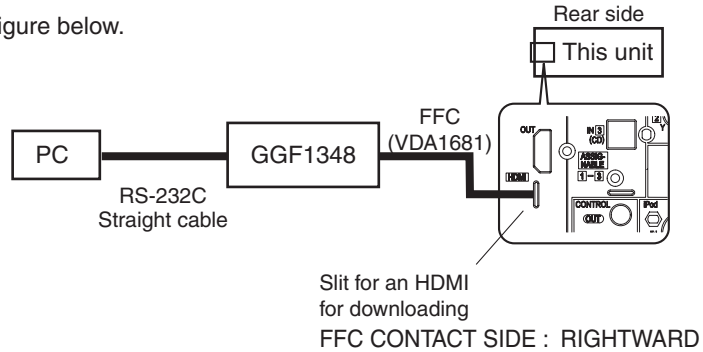
[Necessary Tools]

- PC with RS232C port
- RS-232C straight cable (9pin female ↔ 25pin male)
- RS-232C cross cable (9pin female ↔ 9pin female)
- RS-232C Interface jig : GGF1348
- 7 pin FFC : VDA1681
- Updating program : UFU.exe
- Firmware file : ".mot" file

[Connections for updating HDMI ucom]

- All models -

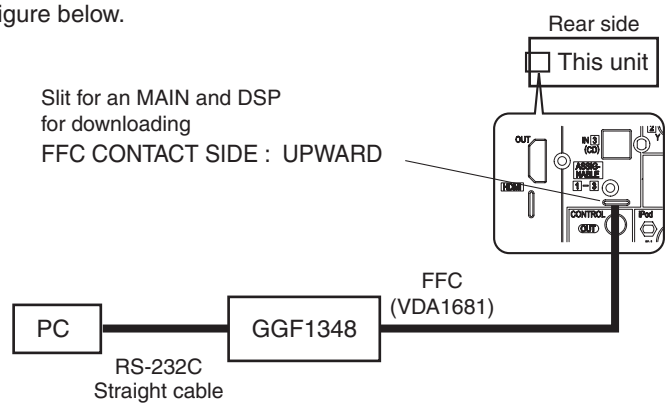
Connect as shown in the figure below.



[Connections for updating MAIN and DSP ucom]

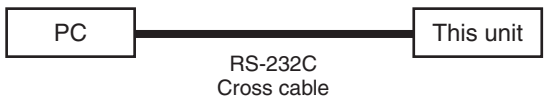
- HY model -

Connect as shown in the figure below.



- KU models -

Connect as shown in the figure below.



[Note]

Do NOT disconnect the AC power cords of this unit and the PC during a downloading.

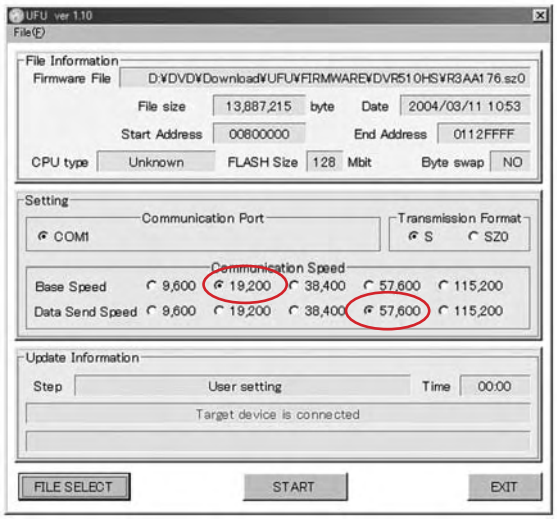
[Procedures]

1. Set the main volume level to "---dB" then turn off the unit (Standby mode).
2. Connect the PC and the unit as shown in "Connections".
3. **HDMI ucom:**
   - HY model
     Simultaneously press and hold the ENTER and FM/AM keys for about 5seconds.
   - KU models
     Simultaneously press and hold the ENTER and XM keys for about 5seconds.

   The unit is turned on and "HDMI DOWNLOAD" is displayed.
   MAIN ucom:
   Simultaneously press and hold the ENTER and HDMI keys for about 5seconds.
   The unit is turned on and "MAIN DOWNLOAD" is displayed.
   DSP ucom:
   - HY model
     Simultaneously press and hold the ENTER and USB keys for about 5seconds.
   - KU models
     Simultaneously press and hold the ENTER and SIRIUS keys for about 5seconds.

   The unit is turned on and "DSPM DOWNLOAD" is displayed.
4. Double-click the "UFU.exe".
5. Check that "Full" is selected in Mode Select.

6. Select the firmware file (.mot file) for updating each ucom.
   Note: Do NOT download the firmware file for other ucom.
7. Select the communication speed.
   - Basic speed: 19200
   - Data transfer speed: 57600



8. Click the "START" button.
9. **HDMI ucom**: "Completed" is displayed on the "UFU.exe" window about 1 minute later.
   MAIN, DSP ucom: "Completed" is displayed on the "UFU.exe" window about 3 minutes later.
10. Disconnect then reconnect the AC power cord of the unit. If the unit is not reset, retry from step2.
11. Reset the AV receiver.

    Note: Note that all the data the receiver retains will be cleared.

    Resetting the receiver
    Use this procedure to reset all the receiver's settings to the factory default. Use the front panel controls to do this.

    1 Switch the receiver into standby.

    2 While holding down the front panel TONE button, press and hold STANDBY/ON for about three seconds.
    The display shows **RESET?**.

    3 Press the front panel ENTER button.
    The display shows **RESET OK?**.

    4 Press SETUP to confirm.
    OK appears in the display to indicate that the receiver has been reset to the factory default settings.

12. Check the version.
    Please refer to "Version indication" (p72) and check that the version has been changed to a new one.

■ DSP FLASH ROM

[Purpose]

Refer to this section when updating the DSP flash ROM firmware is required by the service information, etc.
It is able to update the DSP flash ROM firmware by playing back a CD-R which is recorded a DSP firmware (.wav file) via digital connection.

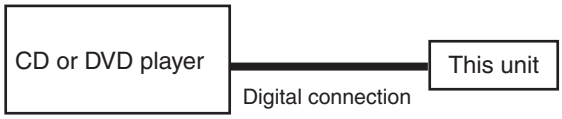
[Necessary Tools]

- DVD player
- Coaxial cable or Optical cable
- Update disc (CD-R disc)

Note:
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.) and 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 receiver.
You can check the base system of our DVD players on the firmware version list at PSN web (Niis).

[Connections]

Connect 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 power cords of this unit and the CD/DVD player during a updating.
- "OK" is appeared on the FL display when updating is completed.
  If the "OK" is not appeared, updating has not been completed correctly. Be sure to perform the updating procedures again.

[Procedures]

1. Reset the receiver.
   Note: Note that all the data the receiver retains will be cleared.

   Resetting the receiver
   Use this procedure to reset all the receiver's settings to the factory default. Use the front panel controls to do this.

   1 Switch the receiver into standby.

   2 While holding down the front panel TONE button, press and hold STANDBY/ON for about three seconds.
   The display shows **RESET?**.

   3 Press the front panel ENTER button.
   The display shows **RESET OK?**.

   4 Press SYSTEM SETUP to confirm.
   OK appears in the display to indicate that the receiver has been reset to the factory default settings.

2. Check the version of the DSP flash ROM (1st DSP) and the DSP ucom.
   Please refer to "Version indication" (p72).

3. Connect a CD or DVD player
   (1) Connect the CD or DVD player for updating to any digital input jack of this unit.
   (2) Select the input source to the connected source by pressing input source key.

[Procedures]

4. Confirm that the digital input signal is locked on the AV receiver.
   (1) Play back the update disc on the CD/DVD player.
   (2) Set the signal select setting of the AV receiver to the "Auto" then confirm that the Signal Select indicator is Digital.

5. Enter the DSP flash ROM updating mode.
   (1) Skip to the beginning (time:0:00) of the first track of the update disc and set to Pause.
   (2) Set the main volume level of the AV receiver to "---dB" then turn off the unit (Standby mode).
   (3) Simultaneously press and hold the ENTER and iPod keys for about 5seconds.
   The unit is turned on and "DSPF DOWNLOAD" is displayed.

6. Play back the first track of the update disc.
   (1) Release Pause mode of the CD/DVD player and start to play back the DSP update program stream.
   (2) After 5-10 seconds, the HDMI indicator starts flashing. Be sure to check it.
   Flashing of the HDMI indicator means that the unit is receiving a correct streem and the 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 5.
   (As the Flash ROM goes into unusual status if the power is off during updating, the unit may not start properly.)
   Even in such a case, you can restore the unit by performing Steps 5 to 8.

7. Wait until "OK" is appeared on the FL display.
   (1) It takes about 2 minutes for updating.
   (2) After confirming the "OK", stop or pause the CD/DVD player and wait for 5 seconds then turn off the power of the AV receiver (Standby mode).

8. Check the version of the DSP flash ROM (1st DSP).
   Please refer to "Version indication" (p72) and check that the version has been changed to a new one.

■ USB (HY model only)

[Purpose]

Refer to this section when updating the USB firmware is required by the service information, etc.
It is able to update the USB firmware by using USB flash memory.

[Necessary Tools]

• USB Flash Memory which is saved the firmware file ("player.rom" file).

Note:

In rare cases, it is not able to update the firmware depending on the type of USB flash memory.
In such a case, try to use other model of USB flash memory.

[Procedures]

1. Turn on the unit then press and hold "SOUND RETRIEVER" and "ENTER" key for about 5sec.
2. "USB" is appeared on the FL display.
3. "TESTMODE" is appeared on the FL display.
4. "CORE*.**" is appeared on the FL display. (*.** : F/W version No.)
5. Connect the USB flash memory which is saved the firmware file ("player.rom" file).
6. "UPDT" is displayed on the FL display.
7. Wait until "FINISHED" is appeared on the FL display.
8. Disconnect the USB flash memory then set the function setting to anything other than USB.
9. Turn off the unit (Standby mode).

Note:

• Do NOT reconnect the USB flash memory which is saved the "player.rom" file.
• Do NOT change the function setting or turn off the power during step 5 through 7.
If you do, the updating is failed and it is required to replace the USB flash ROM on the USB module.

A

B

C

D

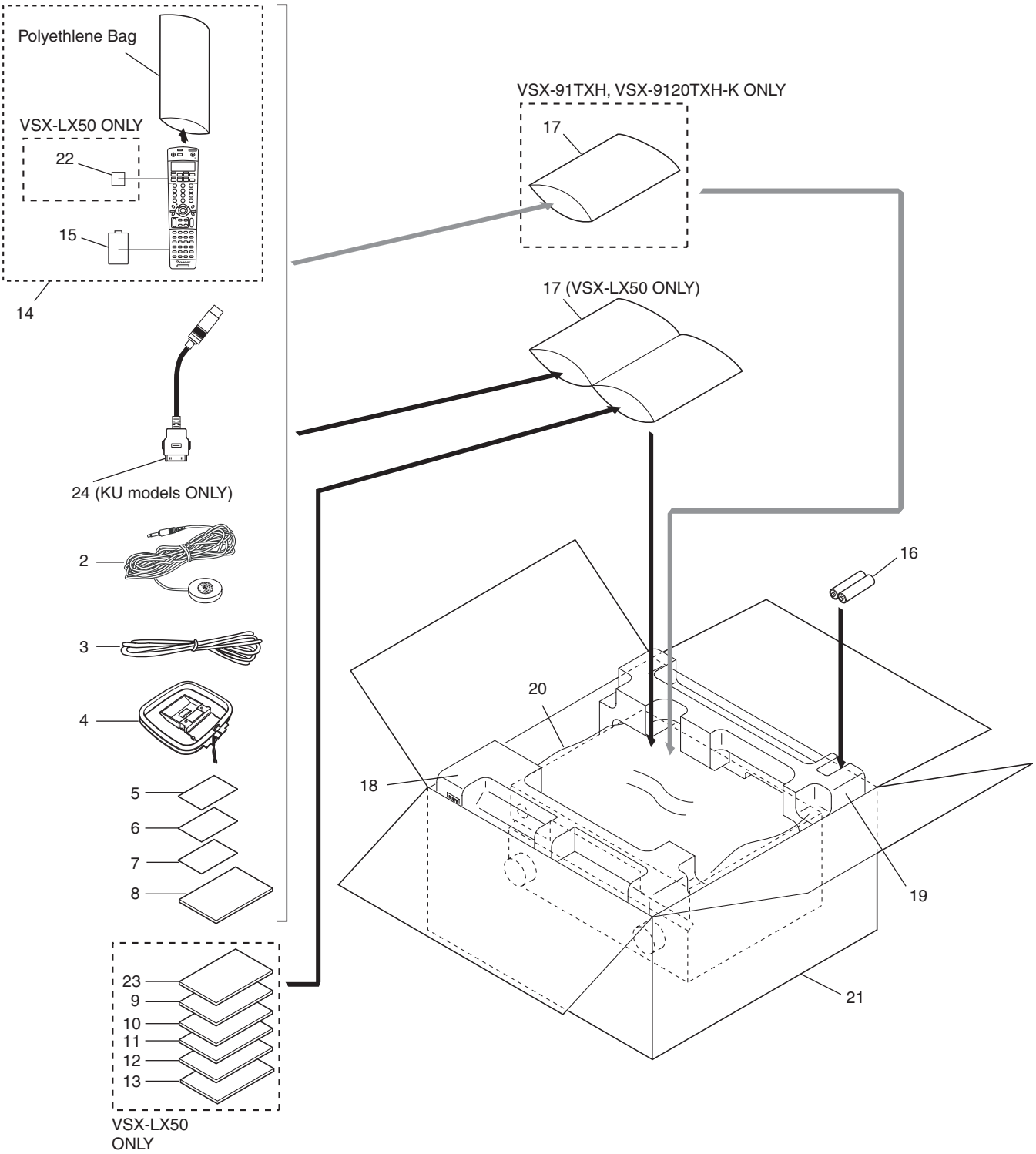
E

F

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

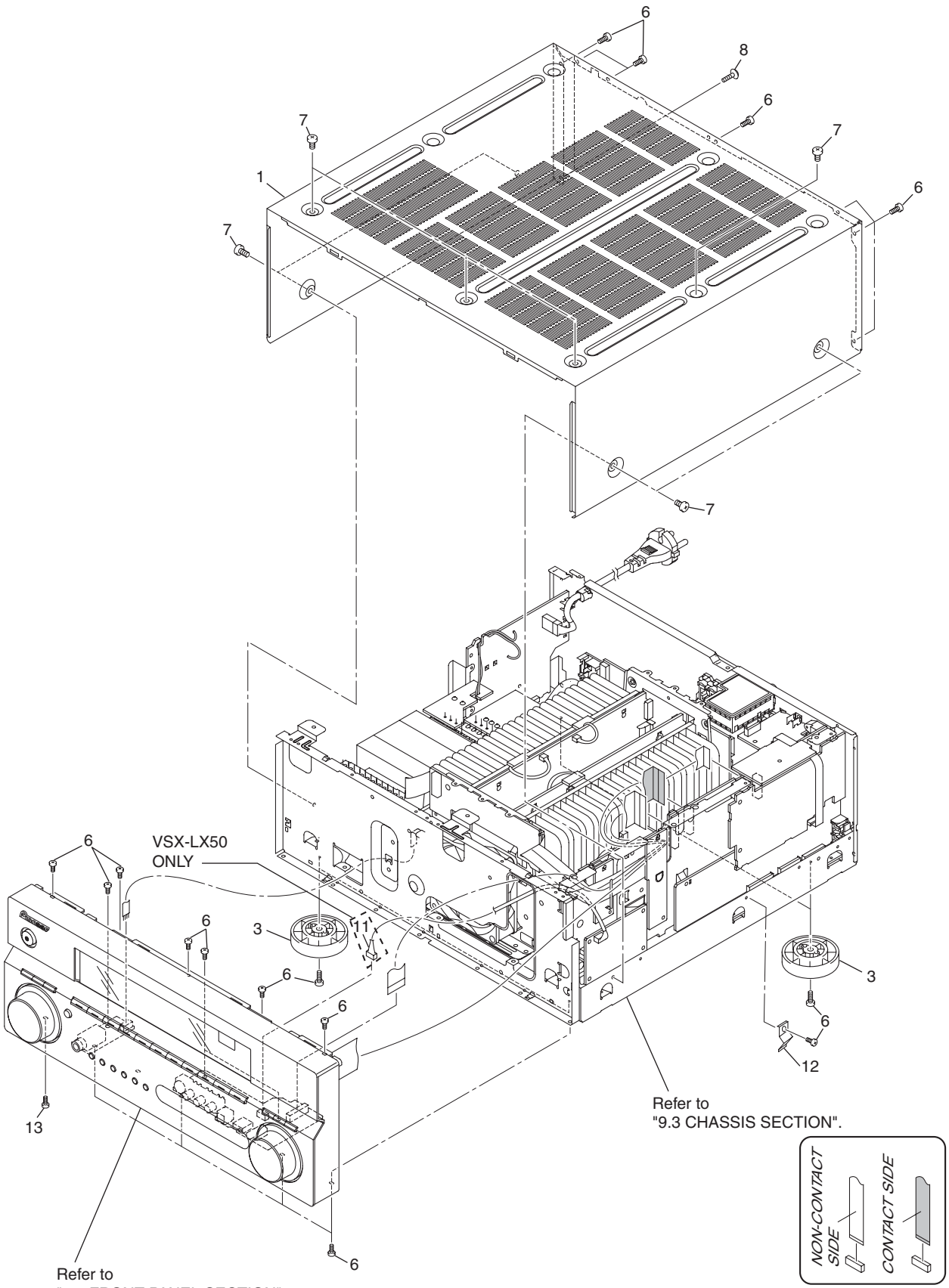
Mark	No.	Description	Part No.
	1	•••••	
	2	Setup Microphone (for Auto MCACC setup)	APM7008
	3	FM Wire Antenna	ADH7030
	4	AM Loop Antenna	ATB7013
NSP	5	Warranty Card	See Contrast table (2)
	6	Caution Sheet(Spanish/English)	ARM7083
	7	Disclaimer	See Contrast table (2)
	8	Operating Instructions (English)	See Contrast table (2)
	9	Operating Instructions (French)	See Contrast table (2)
	10	Operating Instructions (German)	See Contrast table (2)
	11	Operating Instructions (Italian)	See Contrast table (2)
	12	Operating Instructions (Spanish)	See Contrast table (2)
	13	Operating Instructions (Dutch)	See Contrast table (2)
	14	Remote Control Unit	See Contrast table (2)
	15	Battery Cover	XZN3140
NSP	16	Dry Cell Battery AA/LR6	VEM1031
NSP	17	Polyethylene Bag	See Contrast table (2)
	18	Front Pad	AHA7456
	19	Rear Pad	AHA7457
	20	Packing Sheet	RHC1023
	21	Packing Case	See Contrast table (2)
	22	LABEL (WEEE)	See Contrast table (2)
	23	Operating Instructions (Russian)	See Contrast table (2)
	24	Audio Control Cable for iPod	See Contrast table (2)

(2) CONTRAST TABLE

VSX-LX50/HYXJ5, VSX-91TXH/KUXJ/CA and VSX-9120TXH-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX50/ HYXJ5	VSX-91TXH/ KUXJ/CA	VSX-9120TXH-K/ KUXJ
NSP	5	Warranty Card	ARY7065	ARY7007	ARY7045
	7	Disclaimer (English/French/German/Italian/ Spanish/Dutch)	XRM3010	Not used	Not used
	7	Disclaimer (English/French)	Not used	XRM3008	XRM3008
	8	Operating Instructions (English)	ARB7371	ARB7369	ARB7370
	9	Operating Instructions (French)	ARC7728	Not used	Not used
	10	Operating Instructions (German)	ARC7729	Not used	Not used
	11	Operating Instructions (Italian)	ARC7730	Not used	Not used
	12	Operating Instructions (Spanish)	ARC7731	Not used	Not used
	13	Operating Instructions (Dutch)	ARC7732	Not used	Not used
	14	Remote Control Unit	AXD7491	AXD7490	AXD7497
NSP	17	Polyethylene Bag	AHG7132	AHG7117	AHG7117
	21	Packing Case LX50HY	AHD8525	Not used	Not used
	21	Packing Case 91KU	Not used	AHD8523	Not used
	21	Packing Case 9120KKU	Not used	Not used	AHD8524
	22	LABEL (WEEE)	ARW7322	Not used	Not used
	23	Operating Instructions (Russian)	ARC7767	Not used	Not used
	24	Audio Control Cable for iPod	Not used	XDE7025	XDE7025

9.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

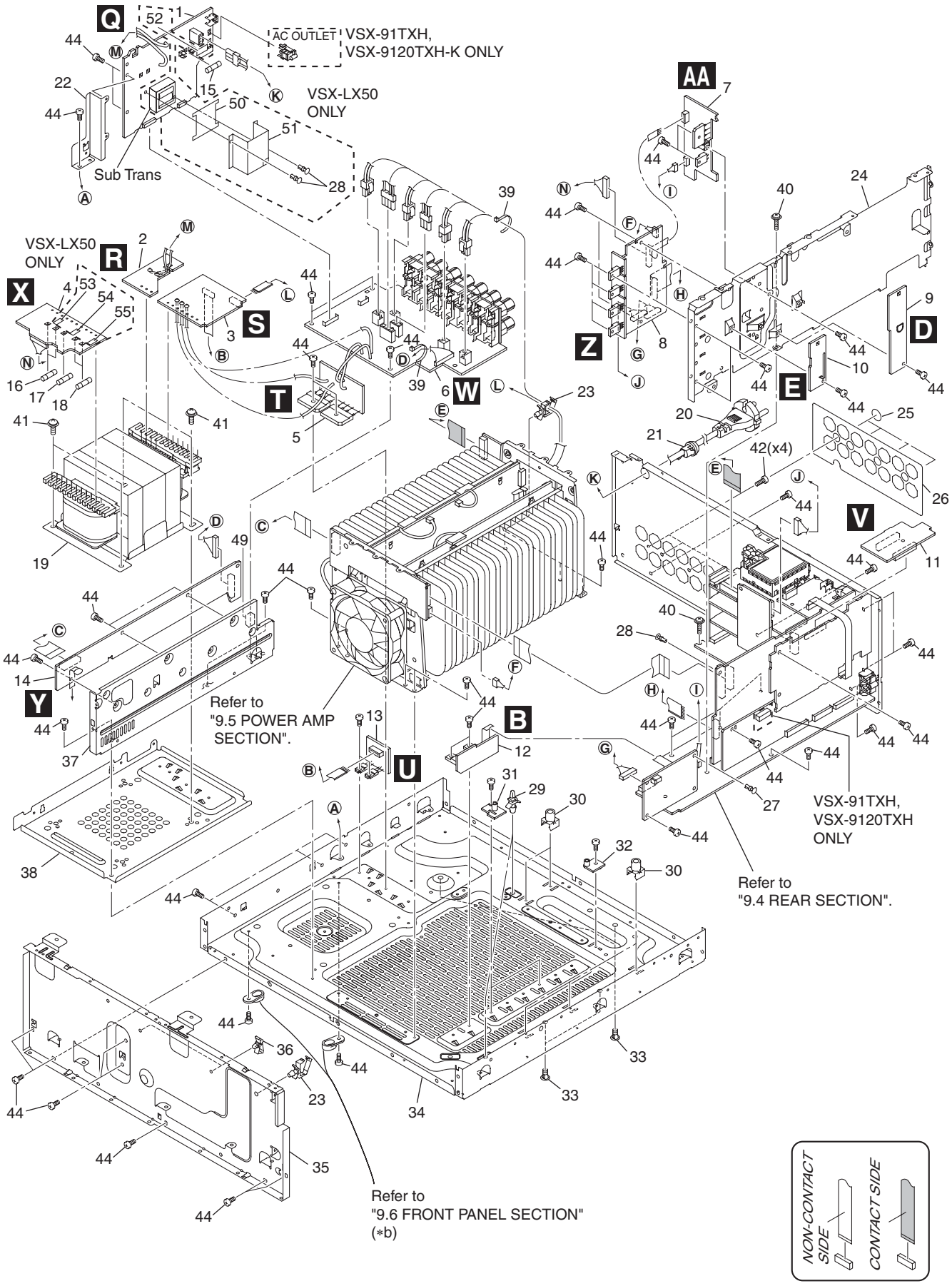
Mark	No.	Description	Part No.
	1	Bonnet 81B	AZN8021
	2	•••••	
	3	Insulator	See Contrast table (2)
	4	•••••	
	5	•••••	
	6	Screw	BBZ30P080FCC
	7	Screw	BCZ40P060FTB
	8	Screw	IBP30P090FCC
	9	•••••	
	10	•••••	
	11	4P Shielded Cable	See Contrast table (2)
	12	Earth Spring	ABH7245
	13	Screw	BBT30P080FNI

(2) CONTRAST TABLE

VSX-LX50/HYXJ5, VSX-91TXH/KUXJ/CA and VSX-9120TXH-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX50/ HYXJ5	VSX-91TXH/ KUXJ/CA	VSX-9120TXH-K/ KUXJ
	3	Insulator	DXA1904	AMR7198	PNW2766
	11	4P Shielded Cable	XDX3028	Not used	Not used

9.3 CHASSIS SECTION



(1) CHASSIS SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	PRIMARY Assy	See Contrast table (2)
	2	TRANS 1 Assy	AWX9038
	3	TRANS 2-1 Assy	See Contrast table (2)
	4	TRANS 2-2 Assy	AWX9062
	5	DIODE 1 Assy	AWX9060
	6	PS/SP Assy	See Contrast table (2)
	7	DC/DC Assy	AWX9015
	8	LOCAL P-SUPPLY Assy	See Contrast table (2)
	9	GUARD-C Assy	AWX8826
	10	GUARD-F Assy	AWX8825
	11	BRIDGE 1 Assy	AWX9078
	12	12V-REG Assy	AWX8824
	13	VH TR Assy	AWX9061
	14	TRANS SIDE Assy	AWX9056
⚠	15	Fuse (FU1)	See Contrast table (2)
⚠	16	Fuse (FU7,FU8)	See Contrast table (2)
⚠	17	Fuse (FU4)	See Contrast table (2)
⚠	18	Fuse (FU5,FU6)	See Contrast table (2)
⚠	19	Power Transformer (T1501)	See Contrast table (2)
⚠	20	AC Power Cord	See Contrast table (2)
	21	Cord Stopper	See Contrast table (2)
	22	Primary Angle 56	ANG7526
NSP	23	Wire Saddle	DEC1450
	24	DSP Shield 2016	ANG7546
	25	Cushion Circle 14B	AED7081
	26	SP Sheet 2016	AEC7560
	27	Nyron Rivet	AEC7408
	28	Nyron Rivet	AEC7406
	29	Locking Card Spacer	PNW2917
	30	PCB Mold	AMR2534
	31	Inter Holder A	AMR7500
	32	Inter Holder B	AMR7501
	33	Card Spacer	DNK2769
NSP	34	Under Base 2016	ANA7189
NSP	35	Panel Stay 2016	AND7082
	36	Side Clamp	DEC2007
	37	Under Beam V1	ANG7478
NSP	38	Trans Frame 74	ANG7539
NSP	39	Binder	ZCA-BK1
	40	Screw 3x15	ABA7100
	41	Screw	ABA7109
	42	Screw	BBT30P100FCC
	44	Screw	BBZ30P080FCC
	49	Bridge Spacer	AEB7201
	50	Primary Barrier	See Contrast table (2)
	51	Shield Case	See Contrast table (2)
NSP	52	Fuse Card	See Contrast table (2)
NSP	53	Fuse Card	See Contrast table (2)
NSP	54	Fuse Card	See Contrast table (2)
NSP	55	Fuse Card	See Contrast table (2)

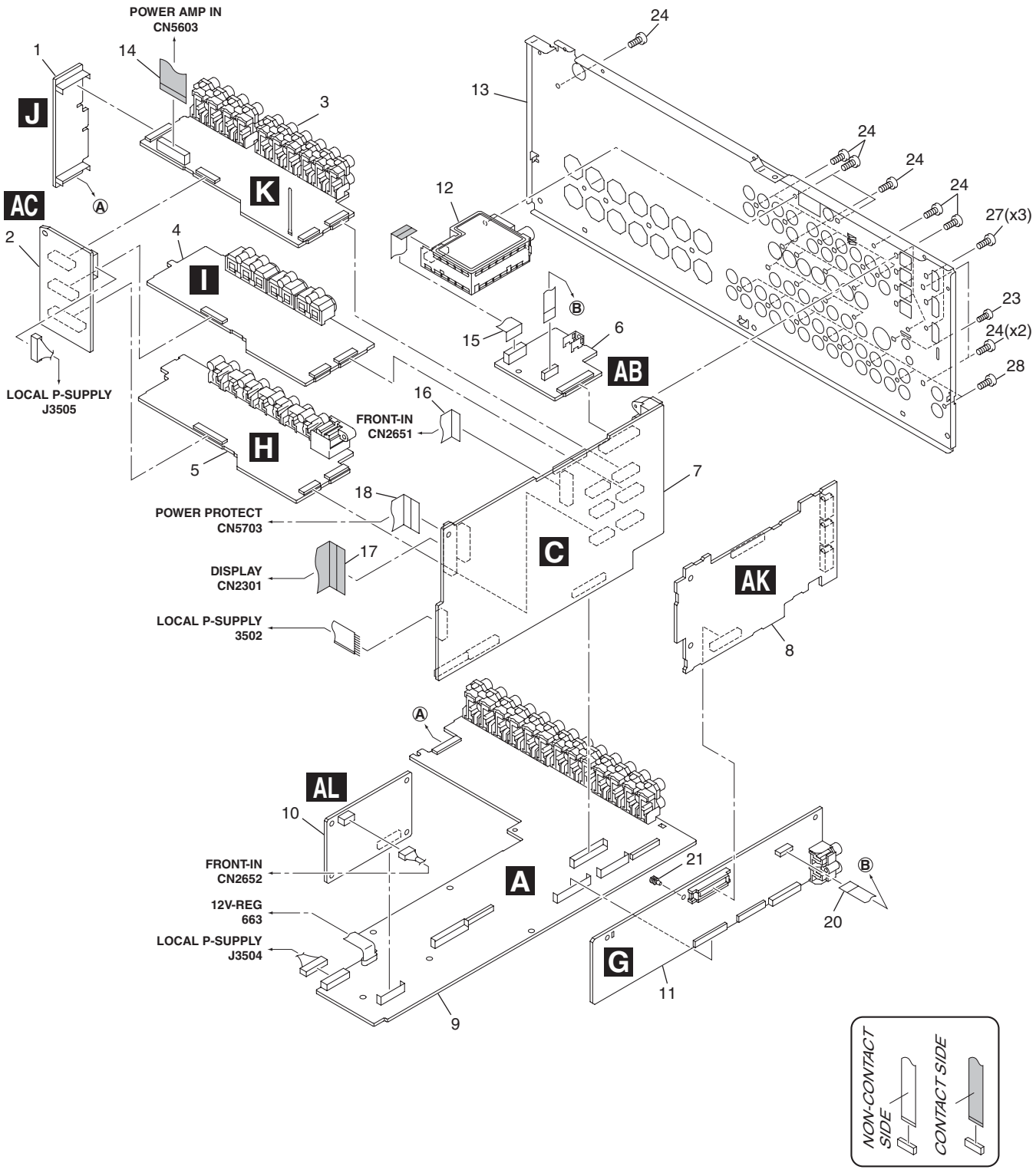
(2) CONTRAST TABLE

VSX-LX50/HYXJ5, VSX-91TXH/KUXJ/CA and VSX-9120TXH-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX50/ HYXJ5	VSX-91TXH/ KUXJ/CA	VSX-9120TXH-K/ KUXJ
	1	PRIMARY Assy	AWX9035	AWX9034	AWX9034
	3	TRANS 2-1 Assy	AWX9059	AWX9058	AWX9058
	6	PS/SP Assy	AWX9107	AWX9052	AWX9052
	8	LOCAL P-SUPPLY Assy	AWX9064	AWX9063	AWX9063
⚠	15	Fuse (FU1: T5 A L 250 V)	REK1029	Not used	Not used
⚠	15	Fuse (FU1: 10 A/125 V)	Not used	REK1154	REK1154
⚠	16	Fuse (FU7,FU8: T2.5 A L 250 V)	REK1026	Not used	Not used
⚠	16	Fuse (FU7,FU8: 2.5 A/125 V)	Not used	REK1146	REK1146
⚠	17	Fuse (FU4: T4 A L 250 V)	REK1028	Not used	Not used
⚠	17	Fuse (FU4: 5 A/125 V)	Not used	REK1067	REK1067
⚠	18	Fuse (FU5,FU6: T800 mA L 250 V)	REK1021	Not used	Not used
⚠	18	Fuse (FU5,FU6: 1.25 A/125 V)	Not used	REK1143	REK1143
⚠	19	Power Transformer (T1501)	ATS7408	ATS7407	ATS7407
⚠	20	AC Power Cord	VDG1080	VDG1075	VDG1075
	21	Cord Stopper	CM-22B	CM-22C	CM-22C
	50	Primary Barrier	AEC7569	Not used	Not used
	51	Shield Case	AMR7526	Not used	Not used
NSP	52	Fuse Card	AAX7098	Not used	Not used
NSP	53	Fuse Card	AAX7277	Not used	Not used
NSP	54	Fuse Card	AAX7099	Not used	Not used
NSP	55	Fuse Card	AAX2367	Not used	Not used

9.4 REAR SECTION

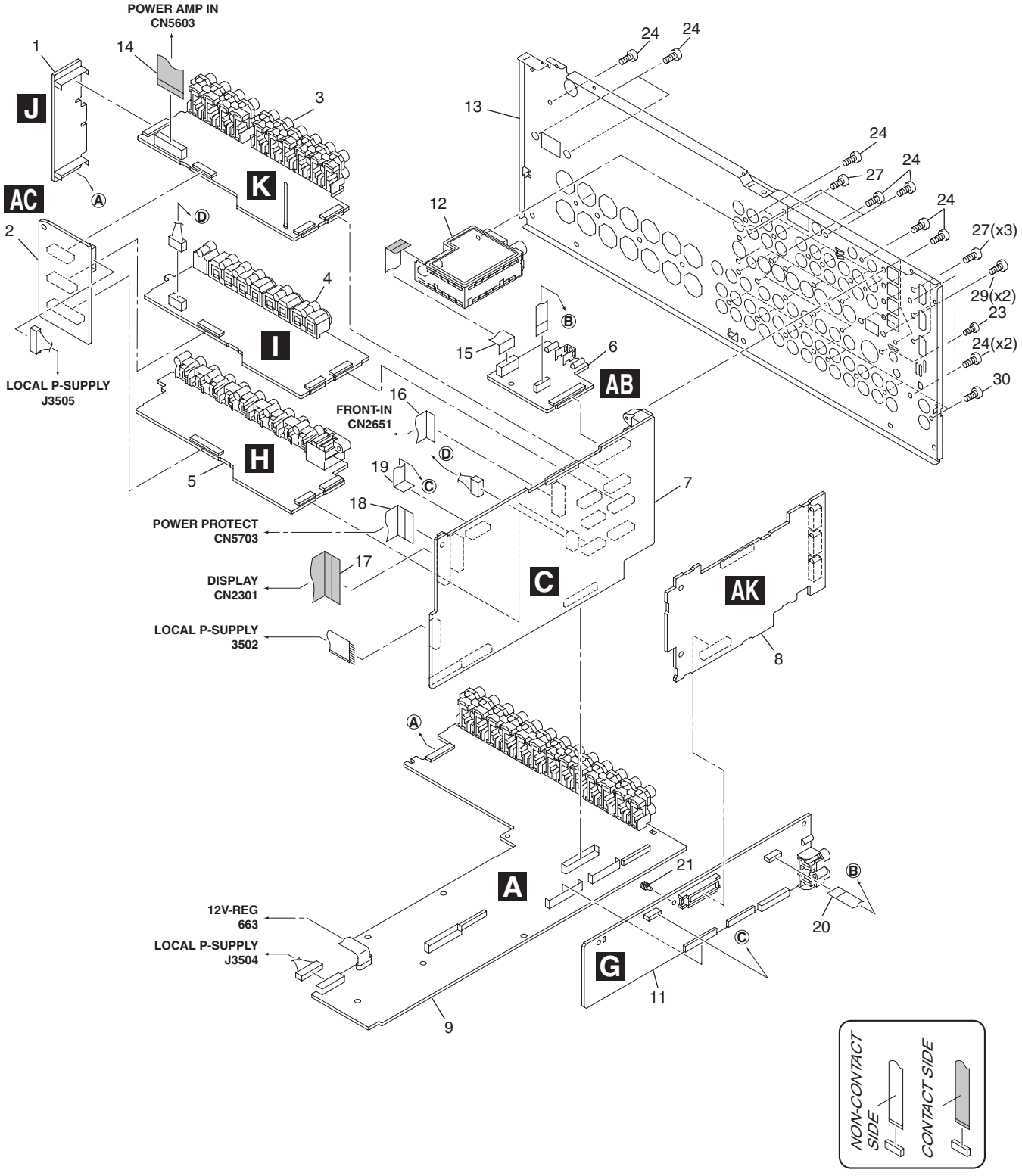
• VSX-LX50



(1) REAR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	BRIDGE 2 Assy	AWX8850
	2	VIDEO CONNECT Assy	AWX9069
	3	COMPONENT Assy	AWX8848
	4	S-VIDEO Assy	AWX8845
	5	COMPOSITE Assy	AWX8842
	6	IR I/O Assy	AWX9067
	7	MAIN CONTROL Assy	AWX8817
	8	HDMI & DVC Assy	AWQ7040
	9	AUDIO IN Assy	AWX8821
	10	USB Assy	AWX8866
	11	DSP Assy	AWX8814
	12	FM/AM Tuner Unit	AXX7248
	13	Rear Panel LX50HY	ANC8469
	14	19P FFC/60V (J58)	ADD7535
	15	11P FFC/60V (J59)	ADD7536
	16	17P FFC/60V (J54)	ADD7540
	17	29P FFC/60V (J55)	ADD7532
	18	19P FFC/60V (J56)	ADD7533
	20	10P FFC/60V (J51)	ADD7528
	21	Card Spacer	AEC7214
	23	Screw	BBZ26P080FCC
	24	Screw	BBZ30P080FCC
	27	Screw	PMZ30P060FCC
	28	Screw	BBT30P080FNI

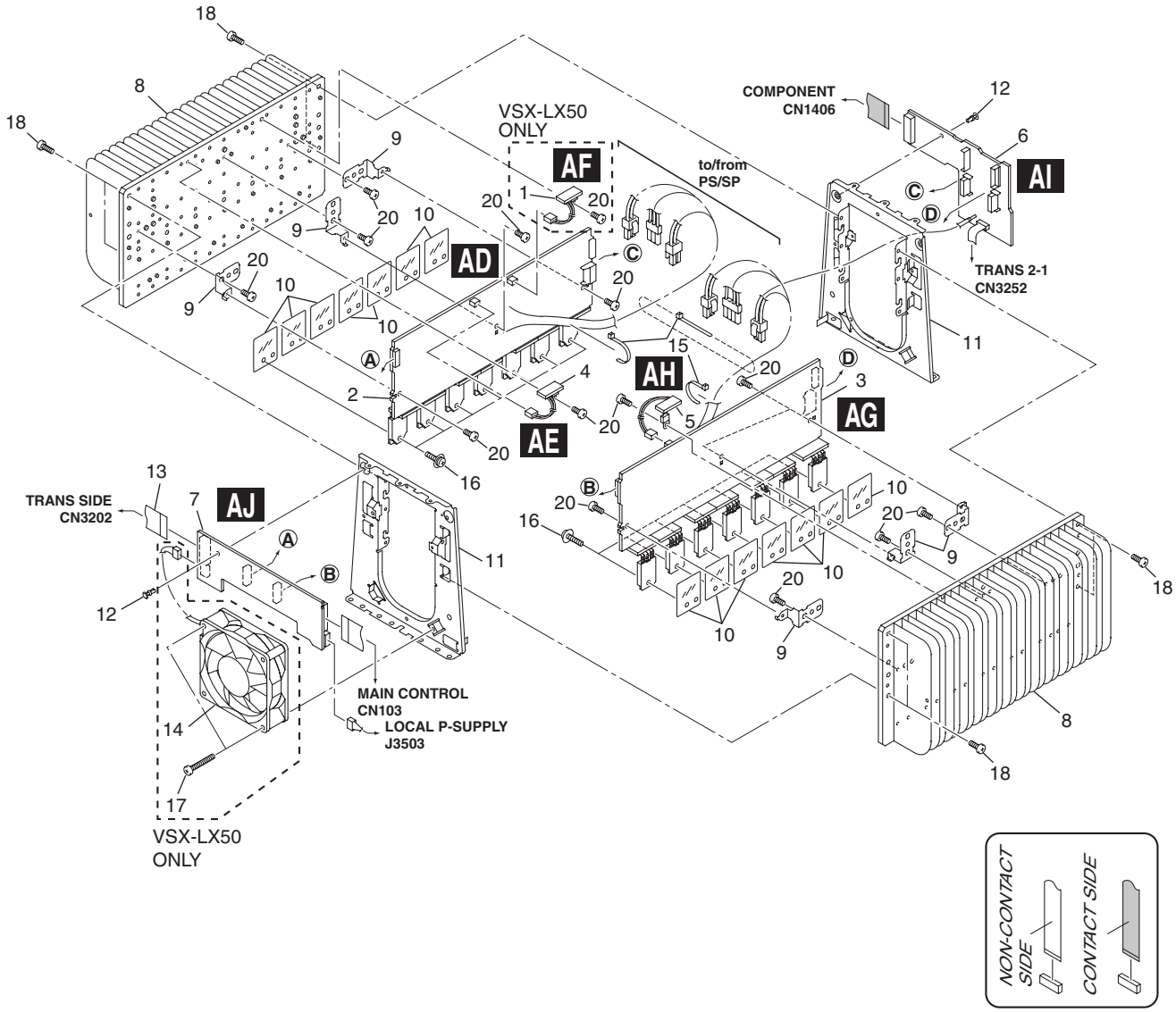
• VSX-91TXH, VSX-9120TXH-K



(1) REAR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	BRIDGE 2 Assy	AWX8850
	2	VIDEO CONNECT Assy	AWX9069
	3	COMPONENT Assy	AWX8847
	4	S-VIDEO Assy	AWX8844
	5	COMPOSITE Assy	AWX8841
	6	IR I/O Assy	AWX9066
	7	MAIN CONTROL Assy	AWX8816
	8	HDMI & DVC Assy	AWQ7040
	9	AUDIO IN Assy	AWX8820
	11	DSP Assy	AWX8813
	12	FM/AM Tuner Unit	AXX7250
	13	Rear Panel 91KU	ANC8467
	13	Rear Panel 9120KKU	ANC8468
	14	19P FFC/60V (J58)	ADD7535
	15	11P FFC/60V (J59)	ADD7536
	16	17P FFC/60V (J54)	ADD7540
	17	29P FFC/60V (J55)	ADD7532
	18	19P FFC/60V (J56)	ADD7533
	19	12P FFC/60V (J52)	ADD7529
	20	10P FFC/60V (J51)	ADD7528
	21	Card Spacer	AEC7214
	23	Screw	BBZ26P080FCC
	24	Screw	BBZ30P080FCC
	27	Screw	PMZ30P060FCC
	29	Screw 2.85 x 7	ABA7078
	30	Screw	BBT30P080FNI

9.5 POWER AMP SECTION



(1) POWER AMP SECTION PARTS LIST

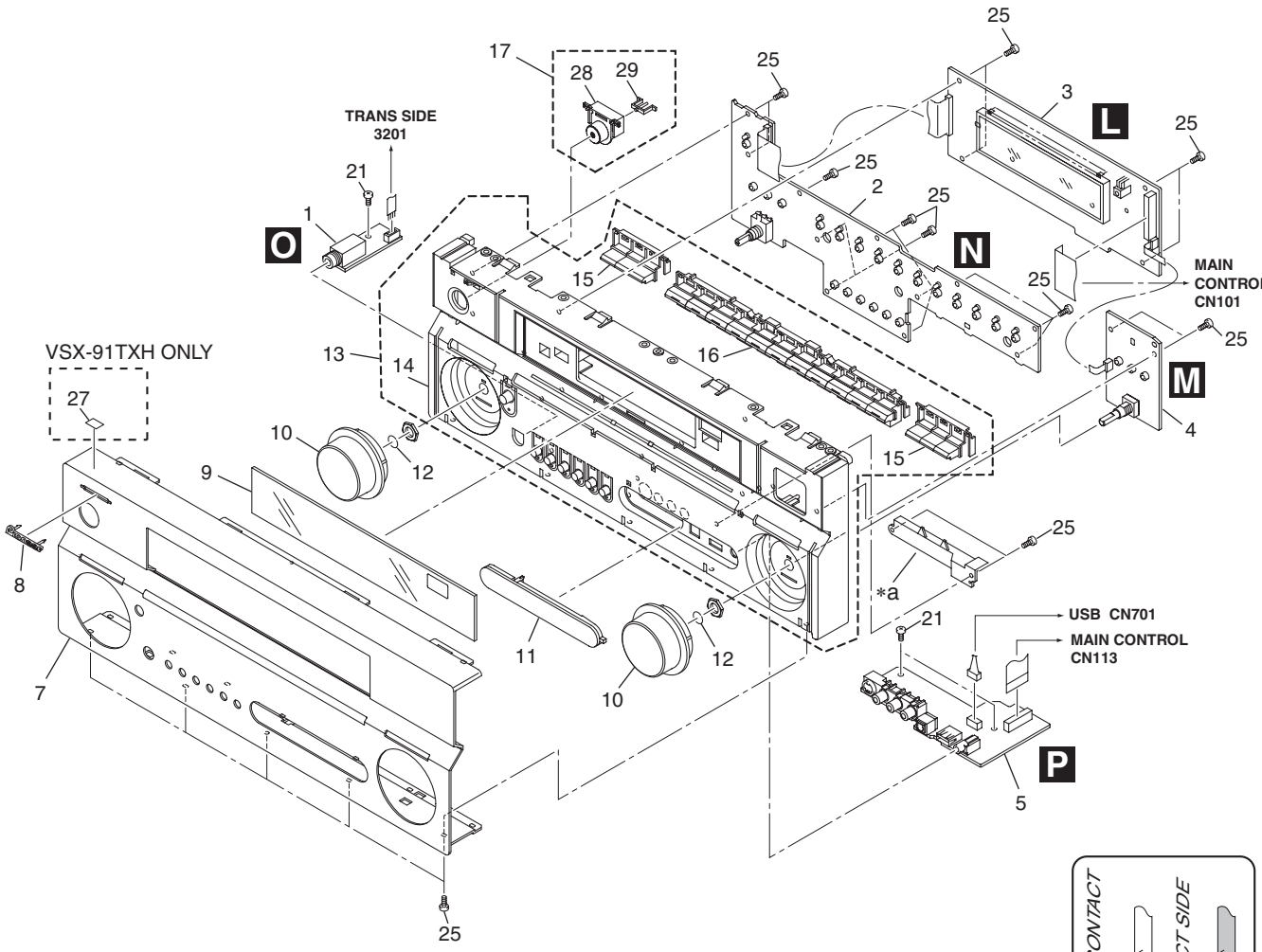
Mark	No.	Description	Part No.
	1	POSI 2-L Assy	See Contrast table (2)
	2	POWER AMP-L Assy	See Contrast table (2)
	3	POWER AMP-R Assy	See Contrast table (2)
	4	POSI 1-L Assy	See Contrast table (2)
	5	POSI 1-R Assy	See Contrast table (2)
	6	POWER AMP IN Assy	AWX9075
	7	POWER PROTECT Assy	See Contrast table (2)
NSP	8	Heat Sink 45	ANH7152
	9	PCB Angle 45	ANG7406
	10	Mica Sheet 45	AEE7047
	11	H.S. Angle 2016	ANG7547
	12	Nyron Rivet	AEC7408
	13	17P FFC/60V (J57)	ADD7534
⚠	14	DC Fan Motor	See Contrast table (2)
NSP	15	Binder	ZCA-BK1
	16	Screw 3X19	ABA7085
	17	Screw	See Contrast table (2)
	18	Screw	BBT30P100FCC
	20	Screw	BBZ30P080FCC

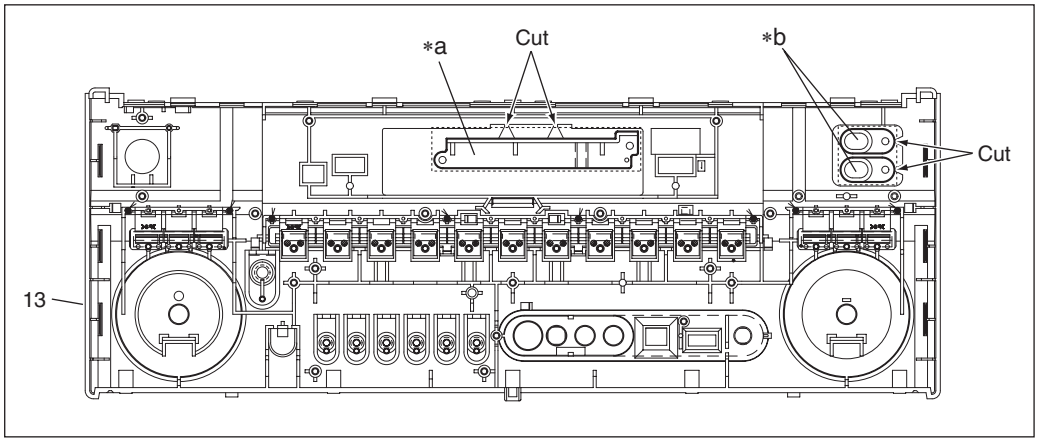
(2) CONTRAST TABLE

VSX-LX50/HYXJ5, VSX-91TXH/KUXJ/CA and VSX-9120TXH-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX50/ HYXJ5	VSX-91TXH/ KUXJ/CA	VSX-9120TXH-K/ KUXJ
	1	POSI 2-L Assy	AWX9082	Not used	Not used
	2	POWER AMP-L Assy	AWX9072	AWX9071	AWX9071
	3	POWER AMP-R Assy	AWX9073	AWX9106	AWX9106
	4	POSI 1-L Assy	AWX9081	AWX9080	AWX9080
	5	POSI 1-R Assy	AWX9084	AWX9083	AWX9083
	7	POWER PROTECT Assy	AWX9077	AWX9076	AWX9076
⚠	14	DC Fan Motor	AXM7029	Not used	Not used
	17	Screw	BBZ30P300FTC	Not used	Not used

9.6 FRONT PANEL SECTION





(1) FRONT PANEL SECTION PARTS LIST

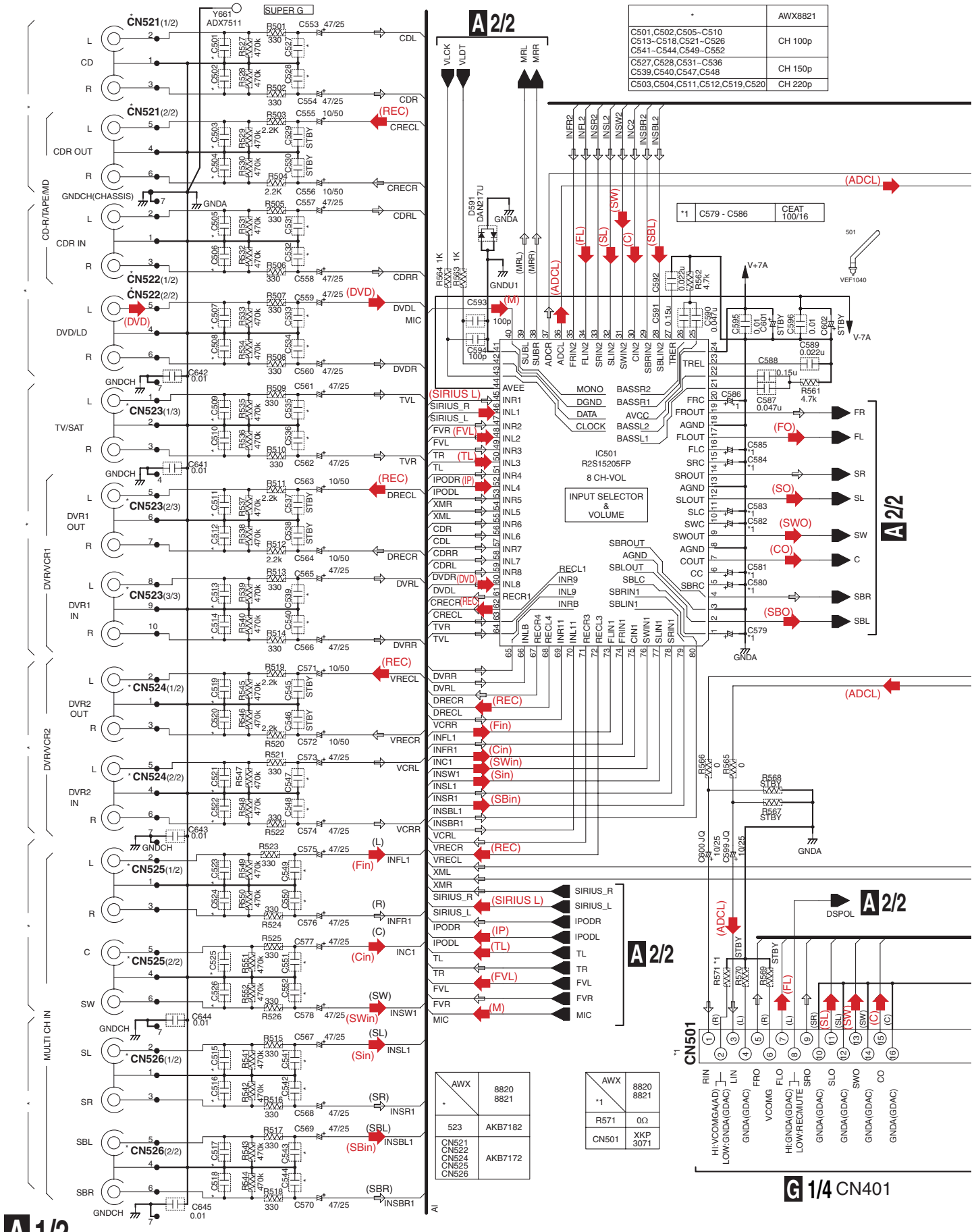
Mark	No.	Description	Part No.
	1	HEADPHONE Assy	AWX9049
	2	MULTI JOG Assy	See Contrast table (2)
	3	DISPLAY Assy	See Contrast table (2)
	4	VOLUME Assy	See Contrast table (2)
	5	FRONT-IN Assy	See Contrast table (2)
	7	F Panel	See Contrast table (2)
	8	Pioneer Name Plate	See Contrast table (2)
	9	Window	See Contrast table (2)
	10	Vol. Knob	AAA7049
	11	Input Cover	See Contrast table (2)
NSP	12	C Ring DIM 8.1	XBH3016
	13	P Base Assy	See Contrast table (2)
NSP	14	P Base	See Contrast table (2)
NSP	15	Side Button	AAD7761
NSP	16	Func BTN Assy	AAD7758
	17	Standby BTN Assy	See Contrast table (2)
	21	Screw	BBZ30P080FCC
	25	Screw	PPZ30P080FNI
NSP	27	Energy Star Label	See Contrast table (2)
	28	Standby BTN	See Contrast table (2)
NSP	29	Standby Lens V2	XAK3477

(2) CONTRAST TABLE

VSX-LX50/HYXJ5, VSX-91TXH/KUXJ/CA and VSX-9120TXH-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-LX50/ HYXJ5	VSX-91TXH/ KUXJ/CA	VSX-9120TXH-K/ KUXJ
	2	MULTI JOG Assy	AWX8880	AWX8879	AWX8879
	3	DISPLAY Assy	AWX8874	AWX8873	AWX8873
	4	VOLUME Assy	AWX9111	AWX9044	AWX9044
	5	FRONT-IN Assy	AWX8955	AWX8954	AWX8954
	7	F Panel LX50HY	ANB7415	Not used	Not used
	7	F Panel 91KU	Not used	ANB7413	Not used
	7	F Panel 9120KKU	Not used	Not used	ANB7414
	8	Pioneer Name Plate	AAM1107	VAM1109	XAM3006
	9	Window LX50HY	AAK8389	Not used	Not used
	9	Window 91KU	Not used	AAK8388	Not used
	9	Window 9120KU	Not used	Not used	AAK8387
	11	Input Cover LXHY	AAK8386	Not used	Not used
	11	Input Cover 81K	Not used	AAK8355	Not used
	13	P Base LX50HY Assy	AXG7336	Not used	Not used
	13	P Base 81KKU Assy	Not used	AXG7290	Not used
	13	P Base 9110KKU Assy	Not used	Not used	AXG7309
NSP	14	P Base 1016KPW	AMB7926	Not used	Not used
NSP	14	P Base 81KKU	Not used	AMB7919	Not used
NSP	14	P Base 9110KKU	Not used	Not used	AMB7921
	17	Standby BTN LXHY Assy	AAD7773	Not used	Not used
	17	Standby BTN 915K Assy	Not used	XAD3216	XAD3216
NSP	27	Energy Star Label	Not used	AAX8022	Not used
	28	Standby BTN LXHY	AAD7772	Not used	Not used
NSP	28	Standby BTN 915K	Not used	XAD3200	XAD3200

10. SCHEMATIC DIAGRAM
10.1 AUDIO IN ASSY (1/2)



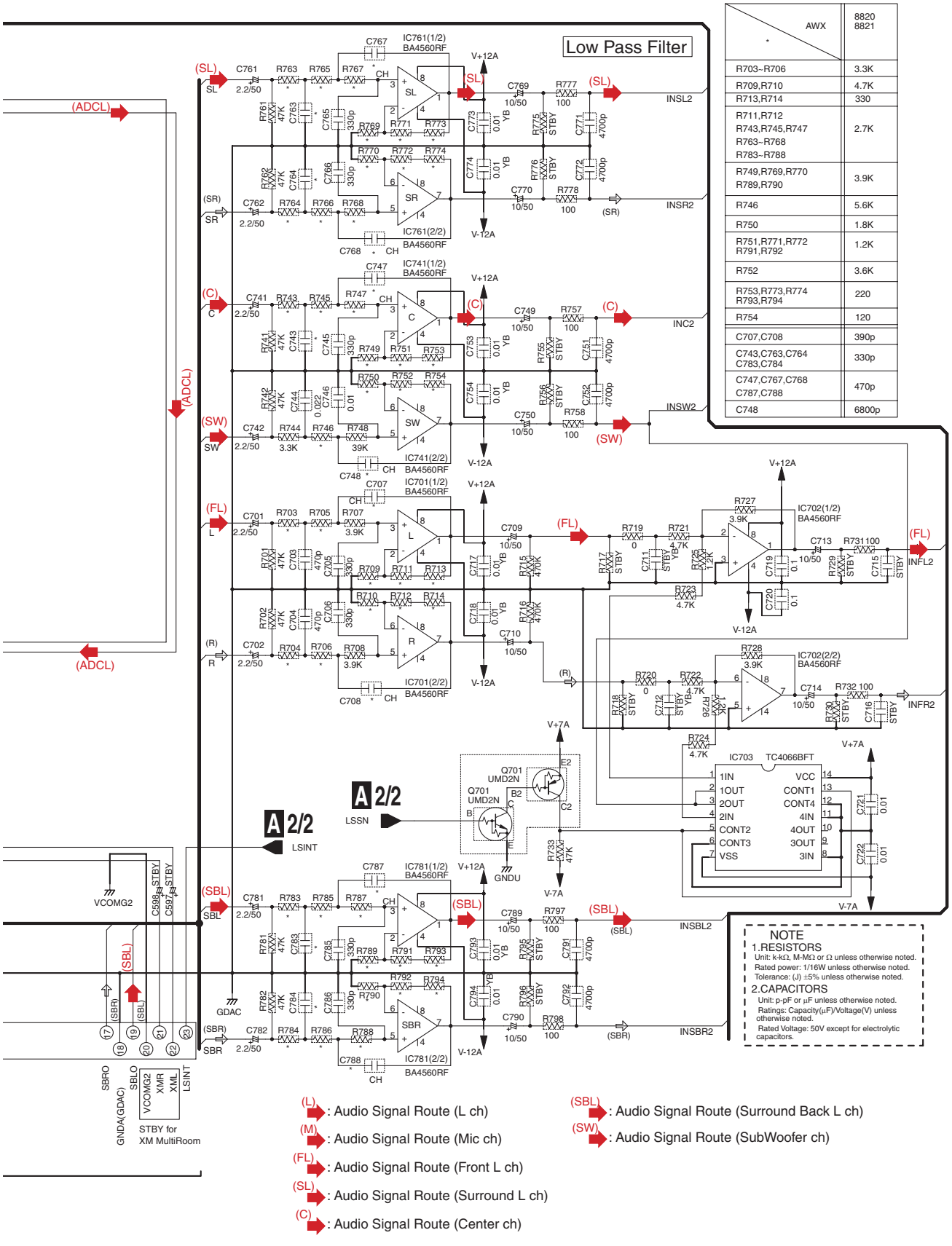
*	AWX8821
C501,C502,C505~C510 C513~C518,C521~C526 C541~C544,C549~C552	CH 100p
C527,C528,C531~C536 C539,C540,C547,C548	CH 150p
C503,C504,C511,C512,C519,C520	CH 220p

*1	C579 - C586	CEAT 100/16

* \ AWX	8820 8821
523	AKB7182
CN521 CN522 CN524 CN525 CN526	AKB7172

AWX \ *1	8820 8821
R571	0Ω
CN501	XKP 3071

A 1/2 AUDIO IN ASSY
(VSX-LX50 : AWX8821)
(VSX-91TXH, VSX-9120TXH : AWX8820)

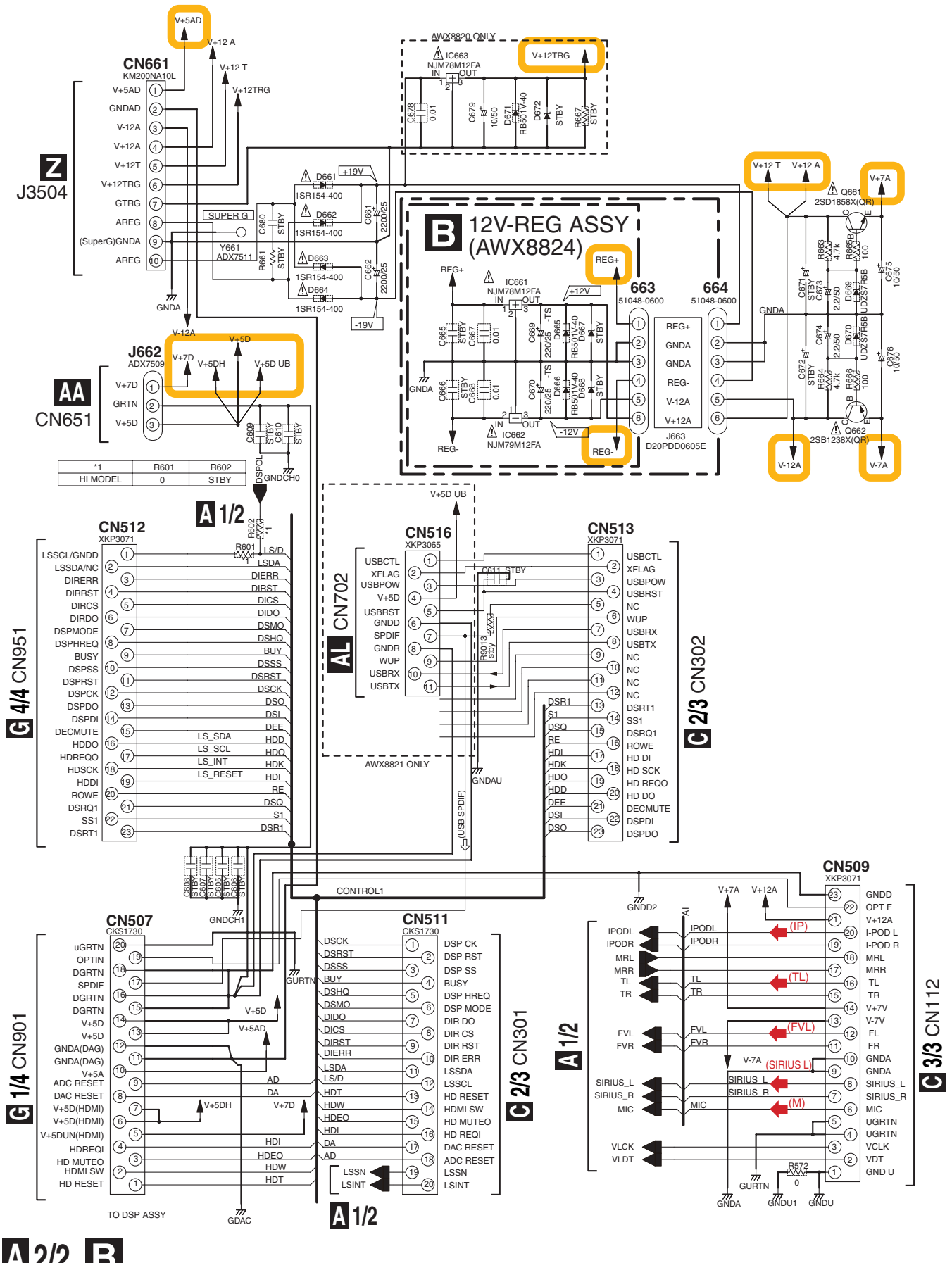


AWX	8820 8821
R703~R706	3.3K
R709,R710	4.7K
R713,R714	330
R711,R712 R743,R745,R747 R763~R768 R783~R788	2.7K
R749,R769,R770 R789,R790	3.9K
R746	5.6K
R750	1.8K
R751,R771,R772 R791,R792	1.2K
R752	3.6K
R753,R773,R774 R793,R794	220
R754	120
C707,C708	390p
C743,C763,C764 C783,C784	330p
C747,C767,C768 C787,C788	470p
C748	6800p

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 except for electrolytic capacitors.

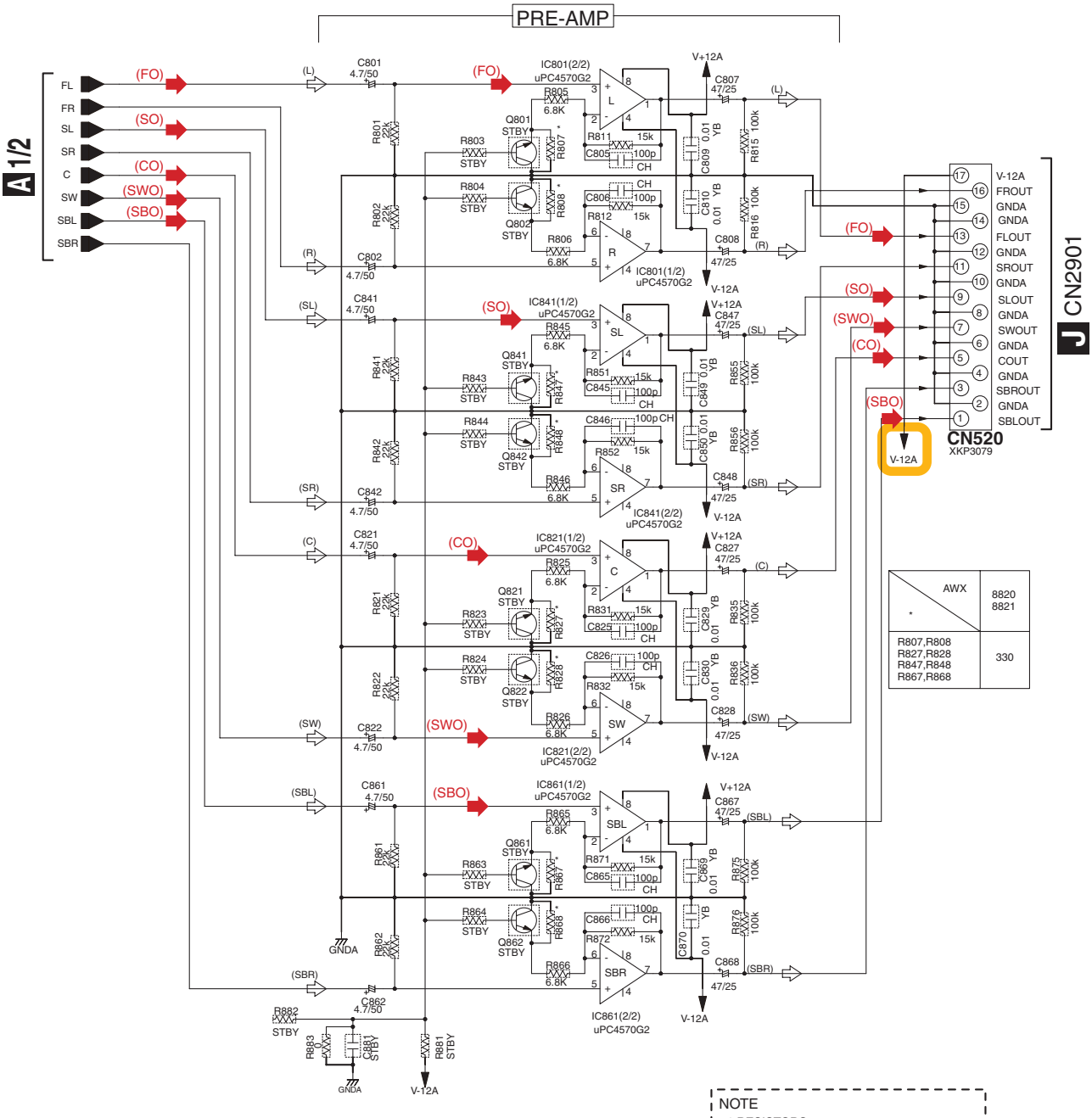
(L): Audio Signal Route (L ch)
(M): Audio Signal Route (Mic ch)
(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center ch)
(SBL): Audio Signal Route (Surround Back L ch)
(SW): Audio Signal Route (SubWoofer ch)

10.2 AUDIO IN (2/2) and 12V-REG ASSYS



A 2/2 AUDIO IN ASSY
(VSX-LX50 : AWX8821)
(VSX-91TXH, VSX-9120TXH : AWX8820)

HIGH	
91TXH/KUCA	AWX8820
9120TXH/KUCA	
LX50/HY	AWX8821



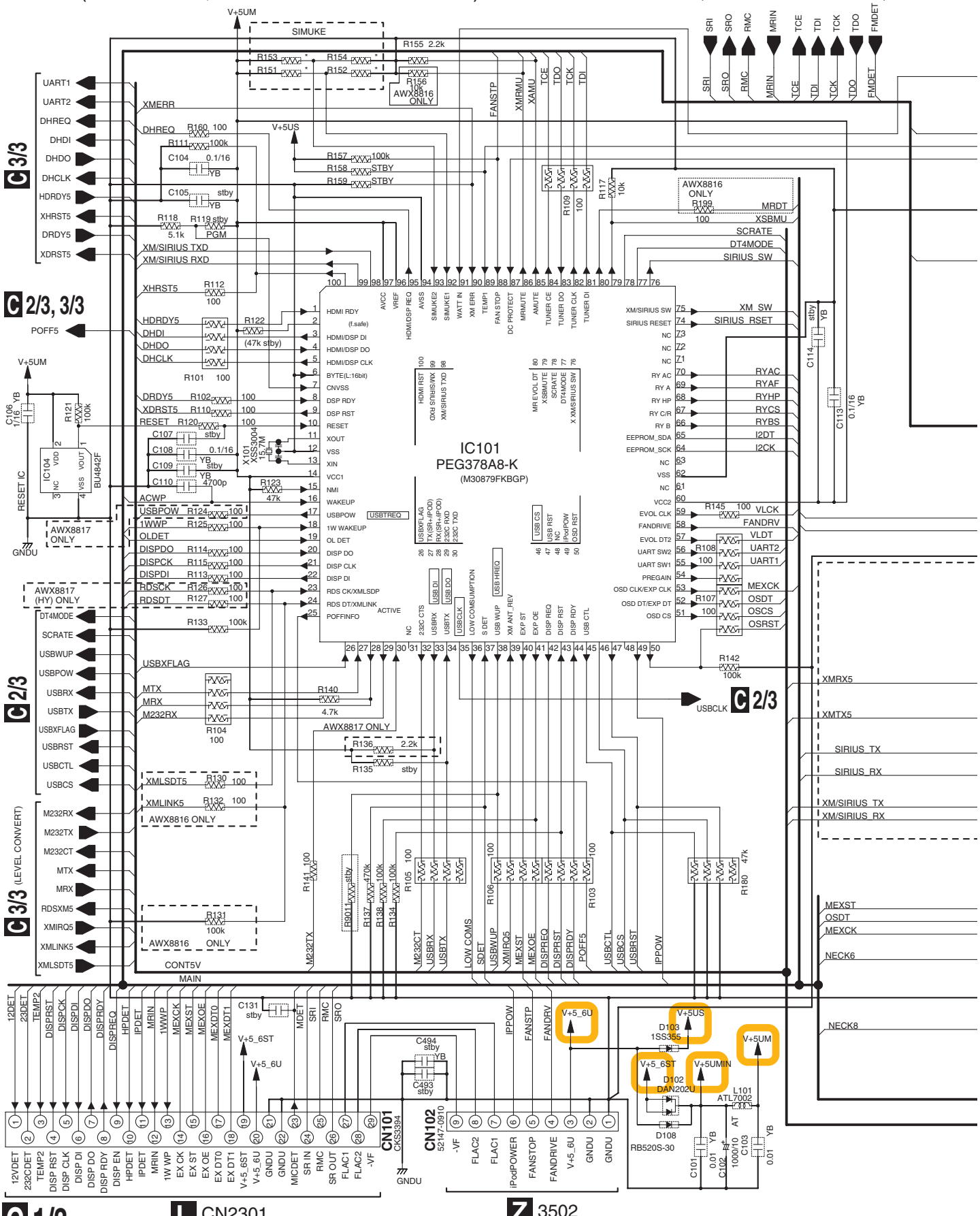
AWX / *	8820 8821
R807,R808 R827,R828 R847,R848 R867,R868	330

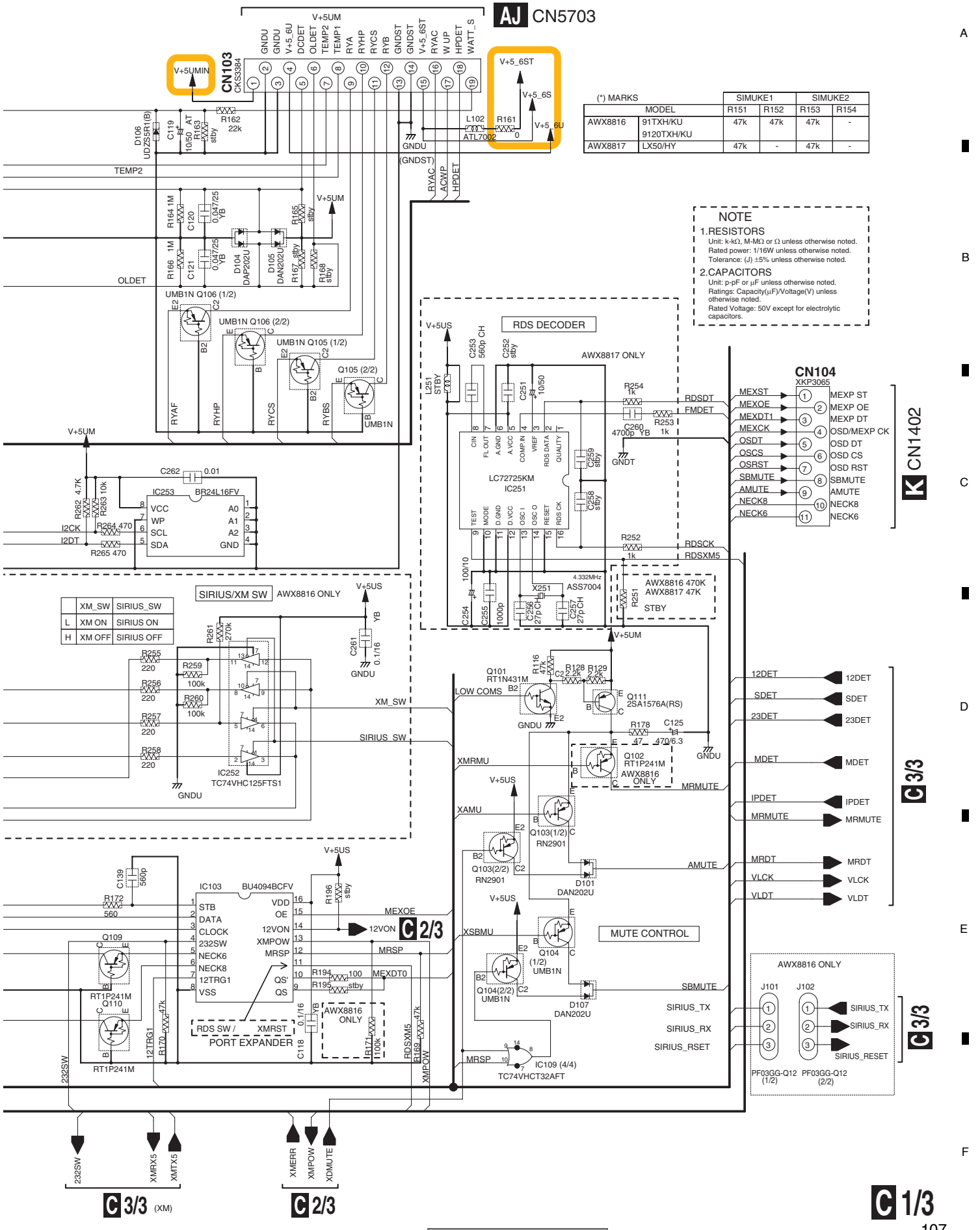
(L) : Audio Signal Route (L ch)
(M) : Audio Signal Route (Mic ch)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (SubWoofer ch)

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 except for electrolytic capacitors.

10.3 MAIN CONTROL ASSY (1/3)

C 1/3 MAIN CONTROL ASSY (VSX-LX50 : AWX8817)
(VSX-91TXH, VSX-9120TXH : AWX8816)



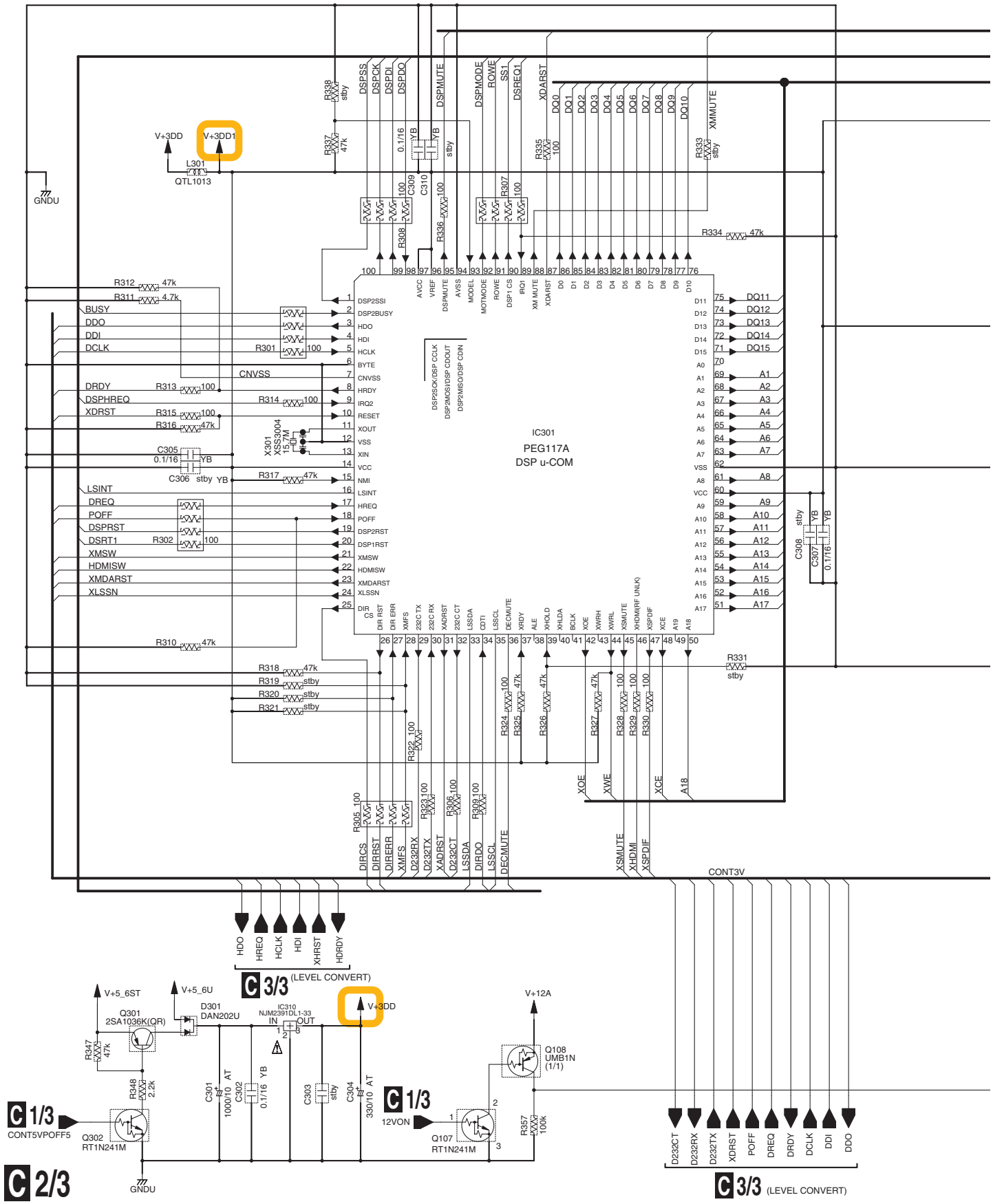


(*) MARKS

MODEL		SIMUKE1		SIMUKE2	
		R151	R152	R153	R154
AWX8816	91TXH/KU 9120TXH/KU	47k	47k	47k	-
AWX8817	LX50/HY	47k	-	47k	-

10.4 MAIN CONTROL (2/3), GUARD-C and GUARD-F ASSYS

C 2/3 MAIN CONTROL ASSY (VSX-LX50 : AWX8817)
(VSX-91TXH, VSX-9120TXH : AWX8816)



D GUARD-C ASSY (AWX8826)

E GUARD-F ASSY (AWX8825)

922 STBY

921 VEF1040

101 VEF1040

102 VEF1040

DSP

DROM

IC302 AYW7168- J
(MBM29LV400TC-70PFTN)

FLASH ROM

D302 RB501Y-40

C313 stby

R339 stby

C312 YB stby

C311 YB 0.1/16

CN301
CKS1764

DSPCK R361 330
DSPRST
DSPSS R362 330
BUSY
DSPHREQ
DSPMODE
DIRDO
DIRCS R363 330
DIRRST
DIRERR
LSSDA
LSSCL
XHRST
HDMISW
HMUTE
HREQ
XDARST
XADRST
XLSSN
LSINT

A 2/2 CN511

C 1/3

USBCLK stby
USBL
USBR

C 3/3

*1
R9006 stby
R9005 0
R9002 stby
R9001 0

CN302
XKP3082

R9004 stby
R9003 0
USBPOW
USBRST
USBCLK
R9007
USBCS R9009 stby
USBRX stby
R9010 0
USBTX
USBWUP
USBCTL
USBXFLAG

GNDA

DSRT1
SS1
DSREQ1
ROWE
HDI
HCLK
HDRDY
HDO
DECMUTE
DSPDI R364 330
DSPDO

A 2/2 CN513

IC304 (3/4)

IC304(1/4)
TC74VHCT125AFTS1

IC304(2/4)

DIRERR
HMUTE

GNDU

IC109 (2/4)

IC305 (4/4)

TC74VHC02FTS1

MUTE CONTROL

V+5US

IC304 (4/4)

R346 100

XDMUTE

C 1/3

R344 100k
R345 100k

C316 0.1/16 YB
C315 0.1/16 YB

XSPDIF
XHDMI
DSPMUTE
XSMUTE

*1

	AWX8816	except AWX8816
R9001	STBY	○
R9003	STBY	○
R9005	STBY	○
R9010	STBY	○

FOR rev.4A STBY

DT4MODE SCRATE XMPOW XMDARST XMSW XMRX3 XMMUTE XXMRST XMANT_REV XMTX3 XMLSDP XMFS XMLINK XMERR

CONT5V

XMTX3 XMRX3 XMANT_REV XXMRST XMLINK XMLSDP XMMUTE

C 3/3

DT4MODE SCRATE XMPOW XMERR

C 1/3

CN305
(12pin)
VKN1243-

DT4MODE SCRATE XMPOW XMDARST XMSW XMRX XMMUTE XMRST XMANT_REV XMTX XMLSDP XMFS XMLNK XMERR AWX8816 ONLY

USBCTL USBRST USBCS USBTX USBRX USBPOW USBXFLAG USBWUP

C 1/3 (Main u-com)

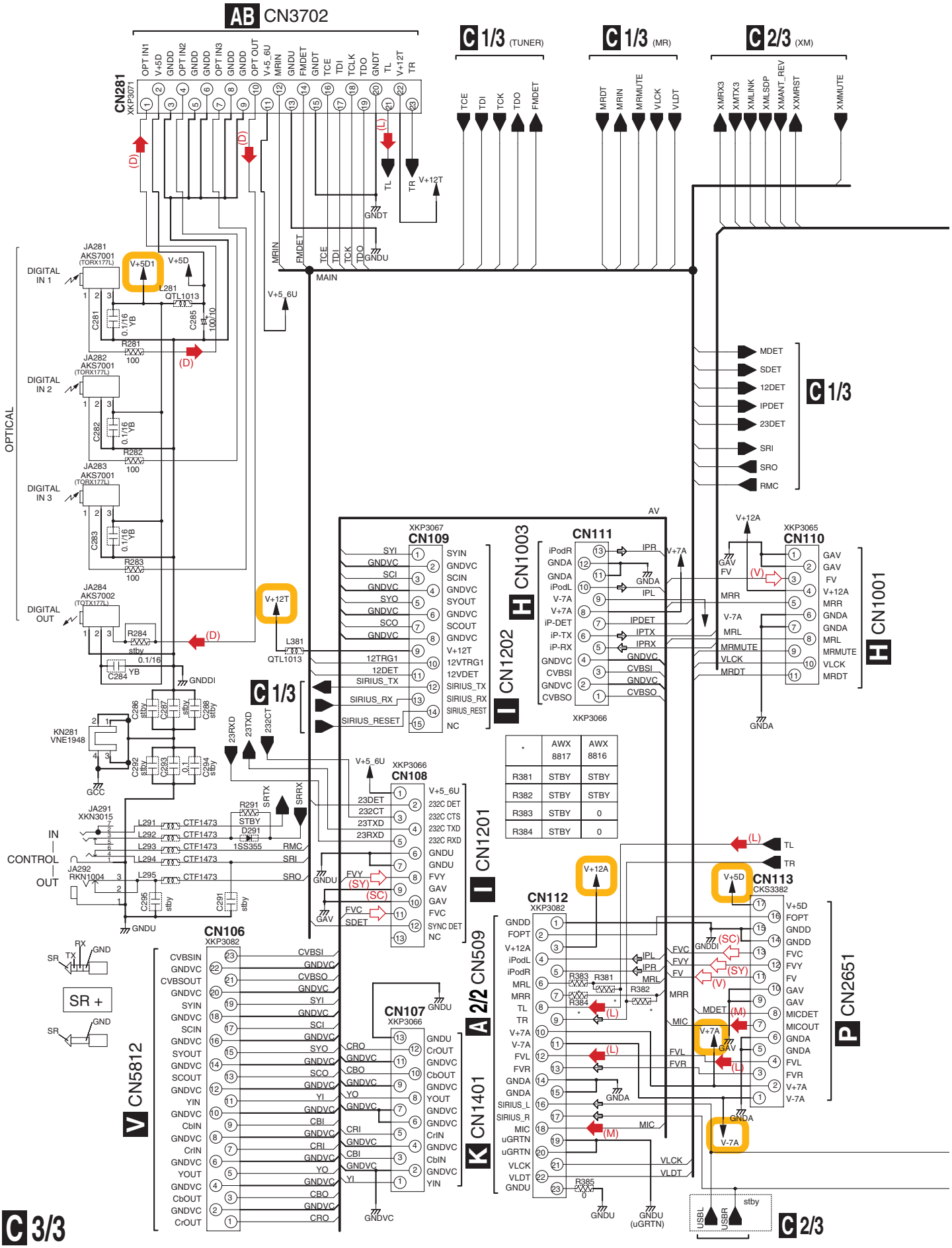
TO DSP MODULE(XM)

G 4/4 CN953

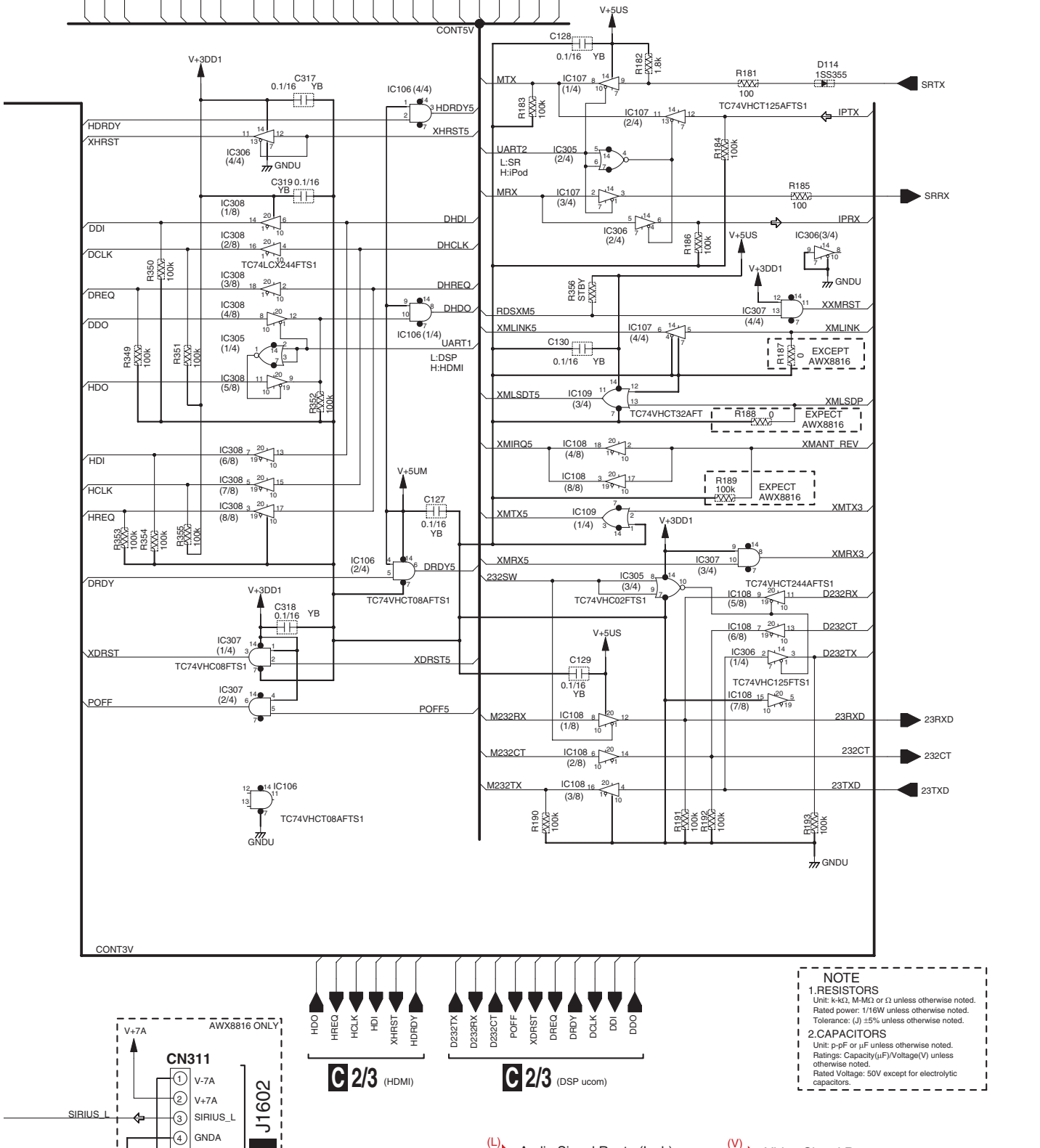
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic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

C 2/3

10.5 MAIN CONTROL ASSY (3/3)



MAIN CONTROL ASSY
(VSX-LX50 : AWX8817)
(VSX-91TXH, VSX-9120TXH : AWX8816)

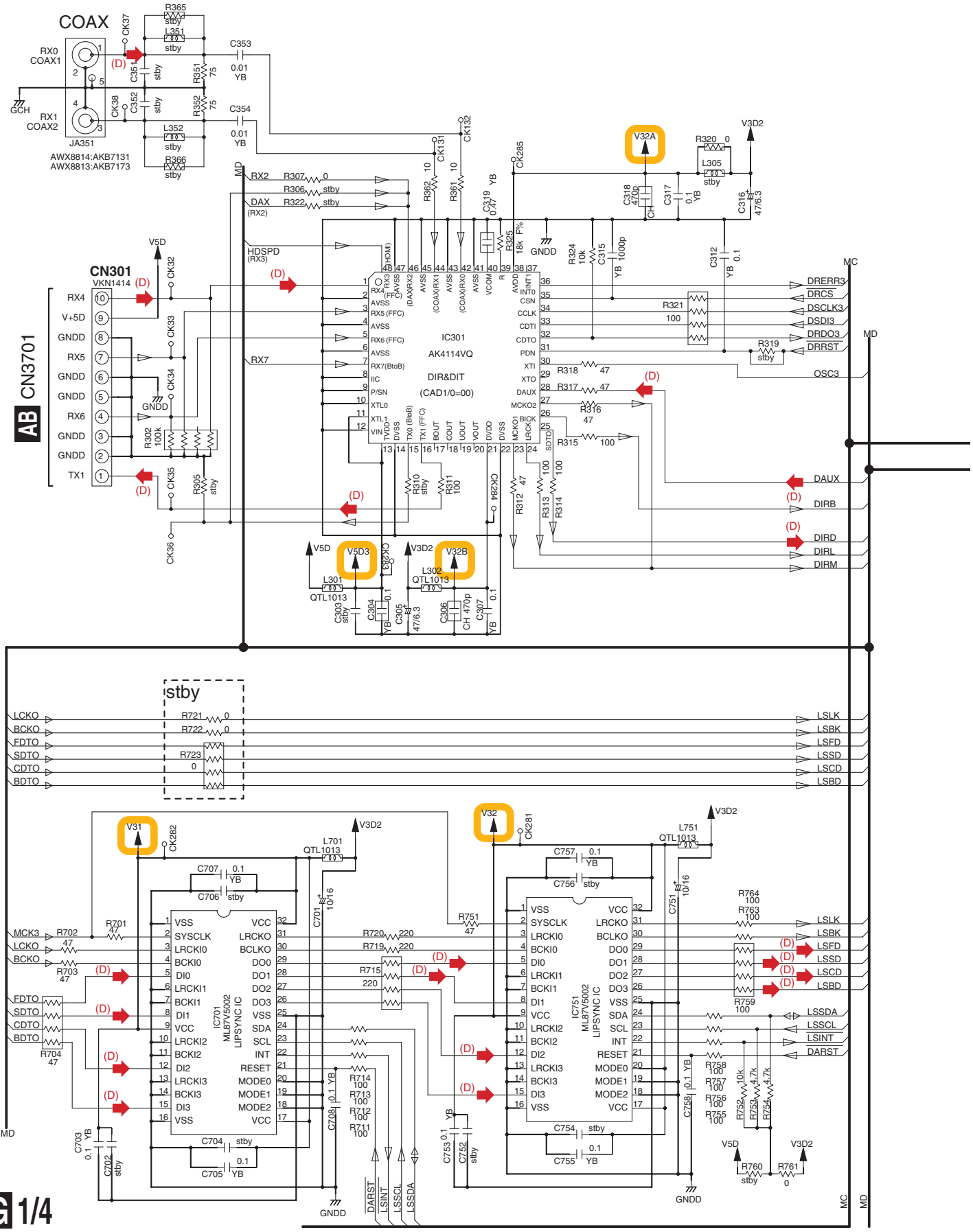


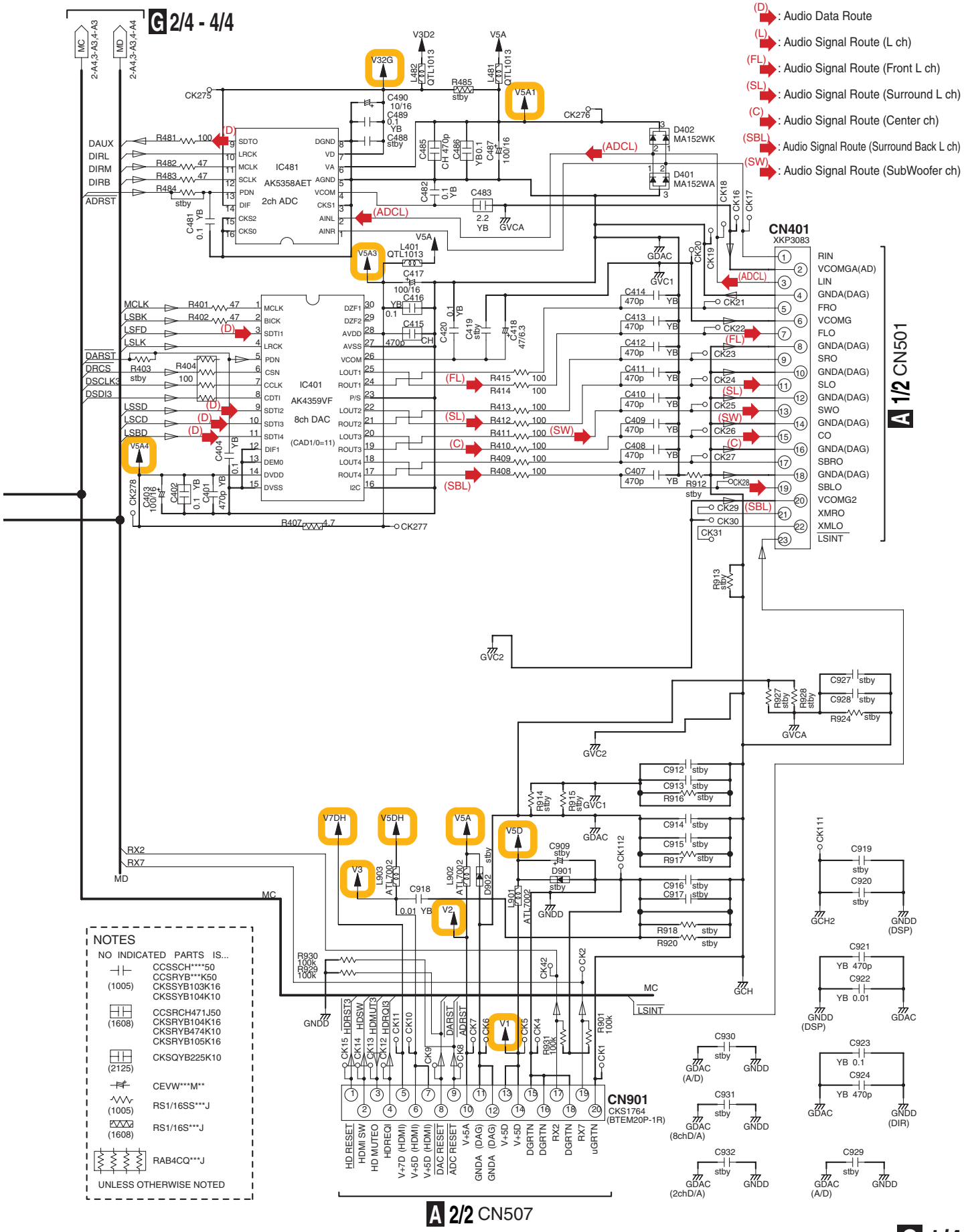
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic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

(L): Audio Signal Route (L ch)
(M): Audio Signal Route (Mic ch)
(D): Audio Data Route
(V): Video Signal Route
(SY): S-Video Signal Route (Y ch)
(SC): S-Video Signal Route (C ch)

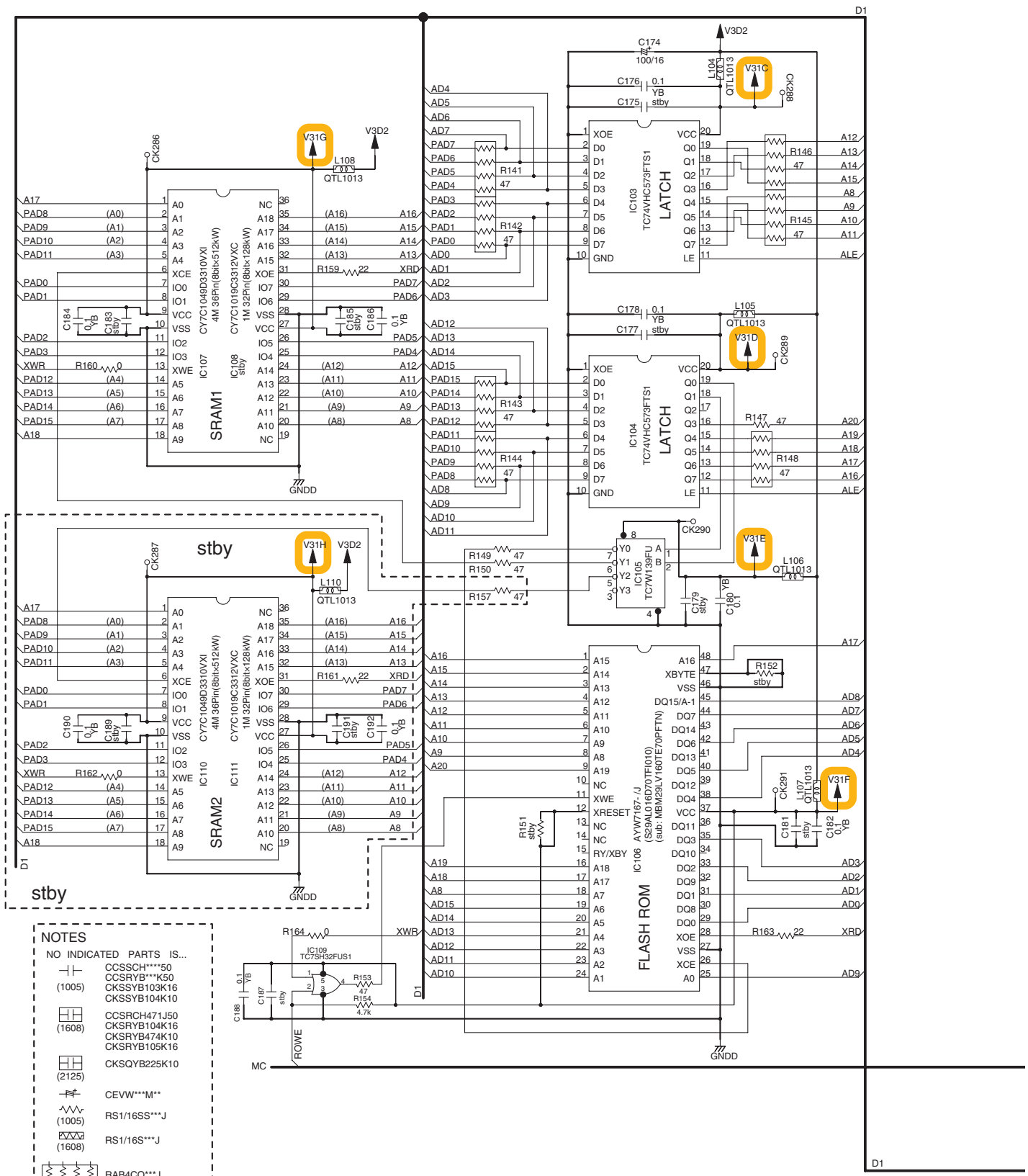
10.6 DSP ASSY (1/4)

G 1/4 DSP ASSY (VSX-LX50 : AWX8814) (VSX-91TXH, VSX-9120TXH : AWX8813)




G 2/4 - 4/4
(D) : Audio Data Route
(L) : Audio Signal Route (L ch)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (SubWoofer ch)
IC481 AK5358AET 2ch ADC
IC401 AK4359VF 8ch DAC (CAD1/0=11)
CN401 XKP3083
A 1/2 CN501
CN901 CKS1764 (BTEM20P-1R)
A 2/2 CN507
NOTES
NO INDICATED PARTS IS...
UNLESS OTHERWISE NOTED
G 1/4
VSX-LX50
113

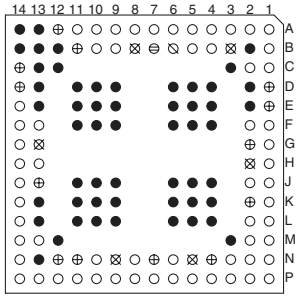
10.7 DSP ASSY (2/4)



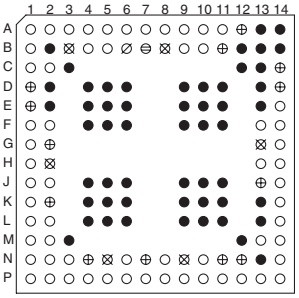
G 2/4

G 2/4 DSP ASSY
(VSX-LX50 : AWX8814)
(VSX-91TXH, VSX-9120TXH : AWX8813)

IC101 BOTTOM VIEW

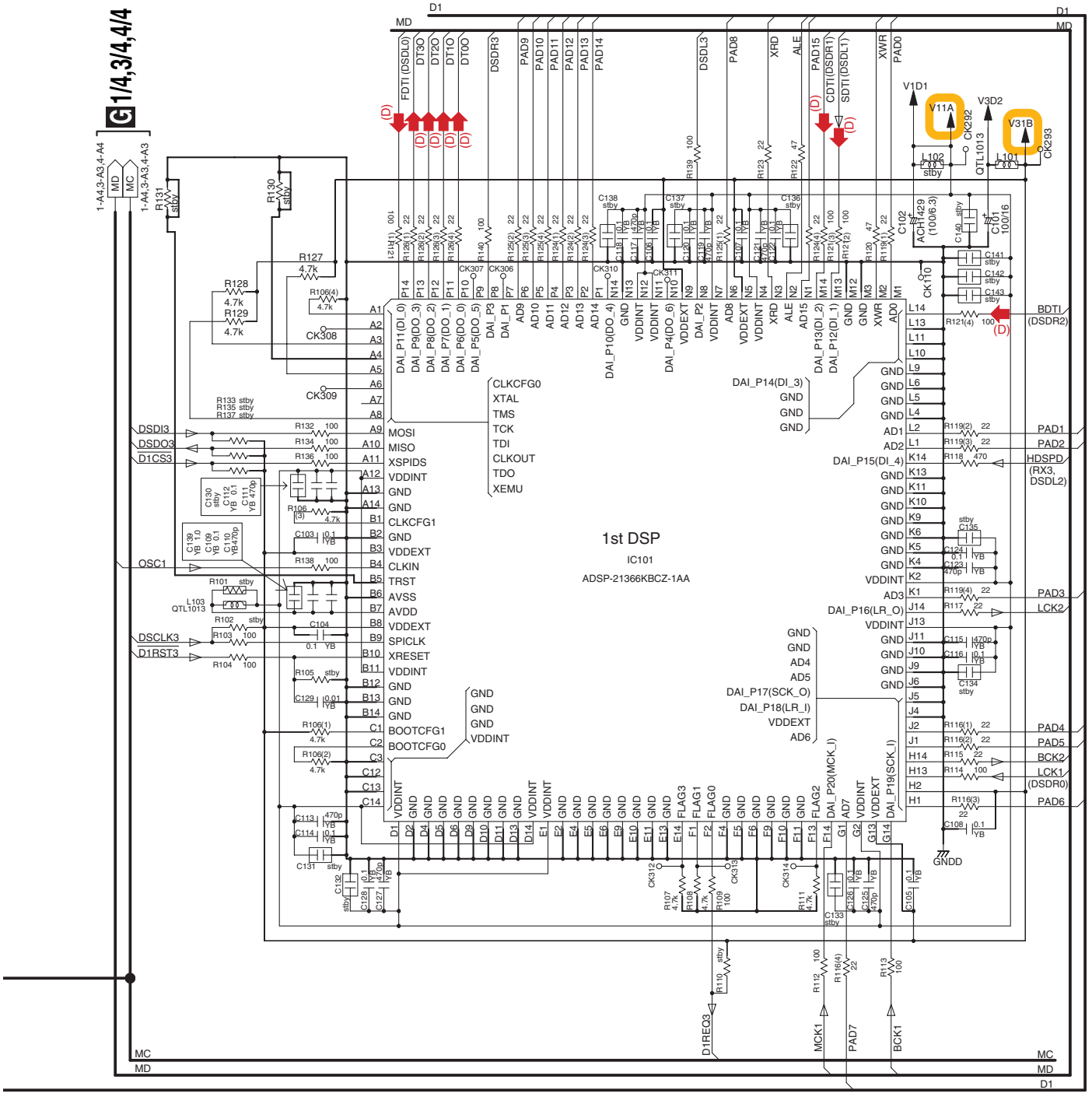


IC101 TOP VIEW



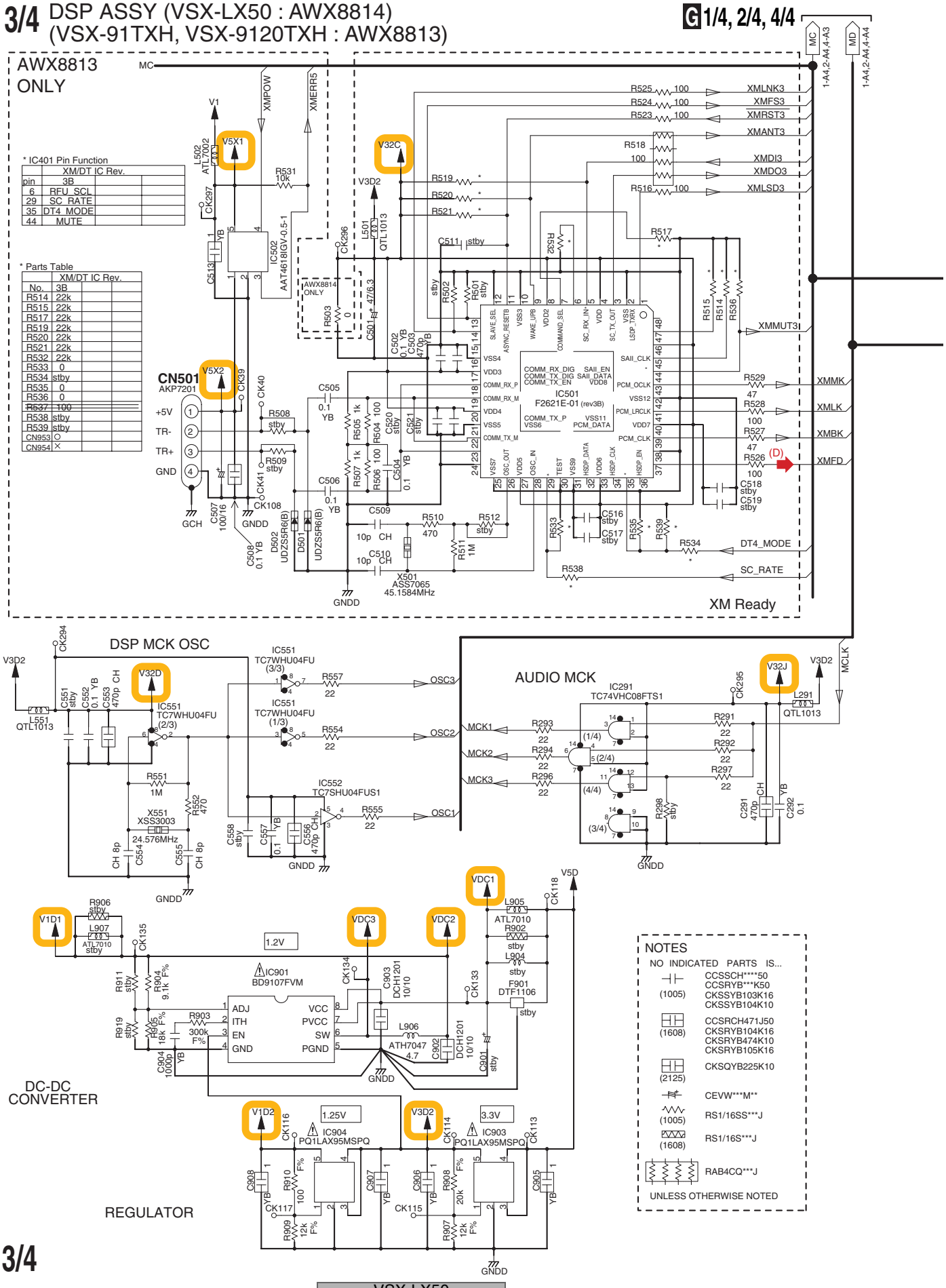
⊕ VDDINT
⊠ VDDEXT
● GND
⊘ AVSS
⊖ AVDD
○ I/O SIGNALS

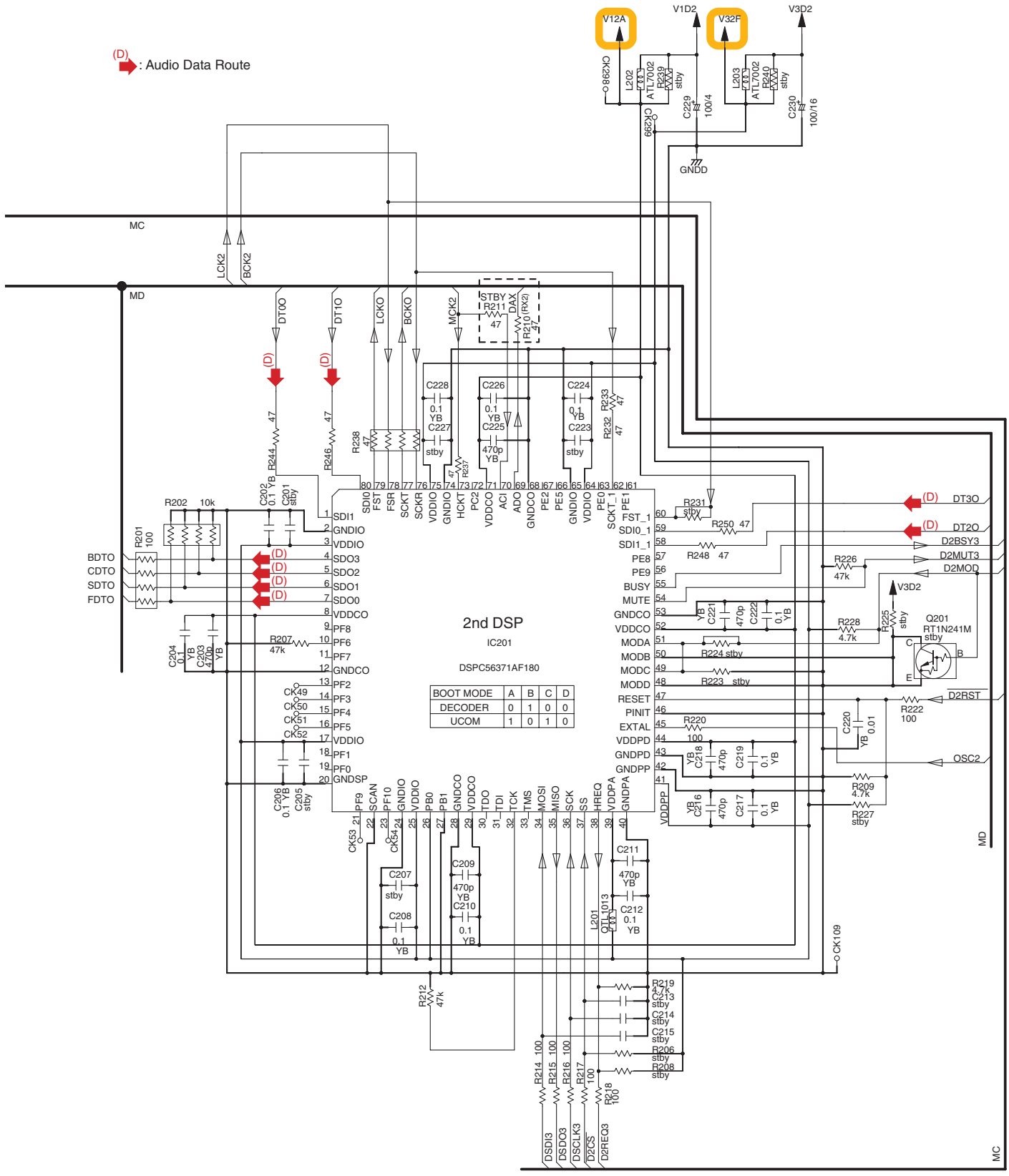
(D) : Audio Data Route



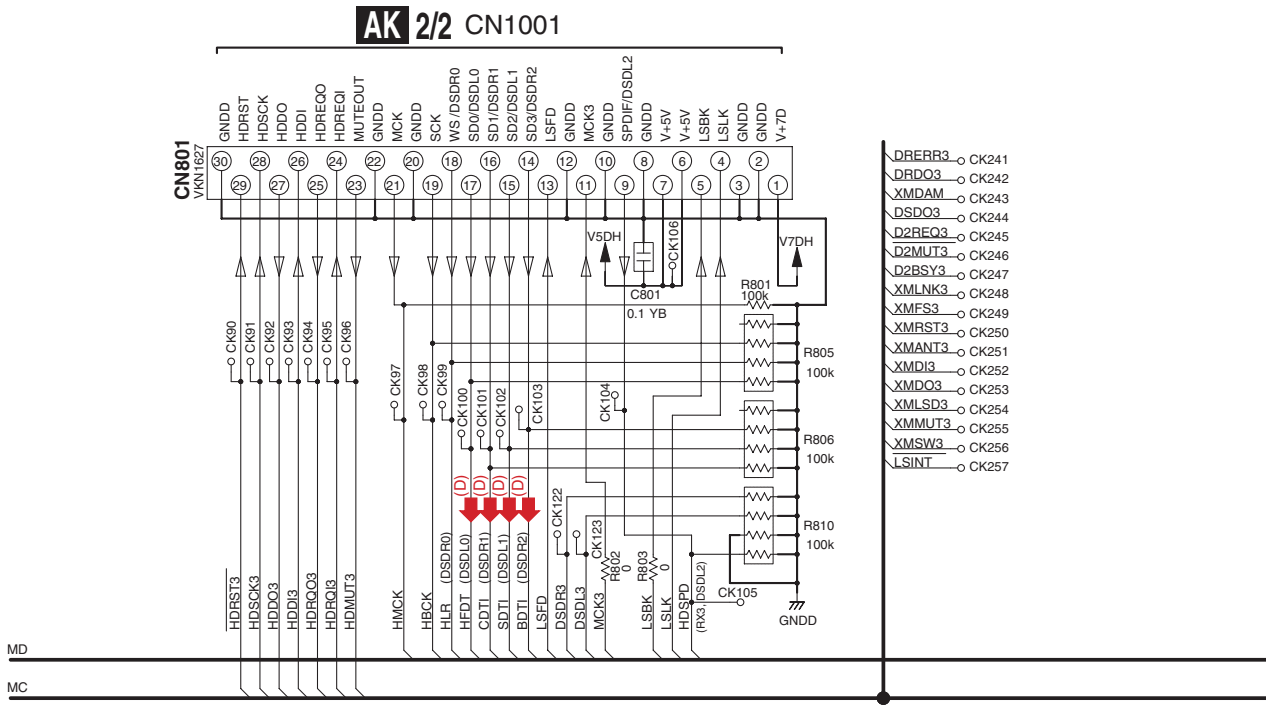
10.8 DSP ASSY (3/4)

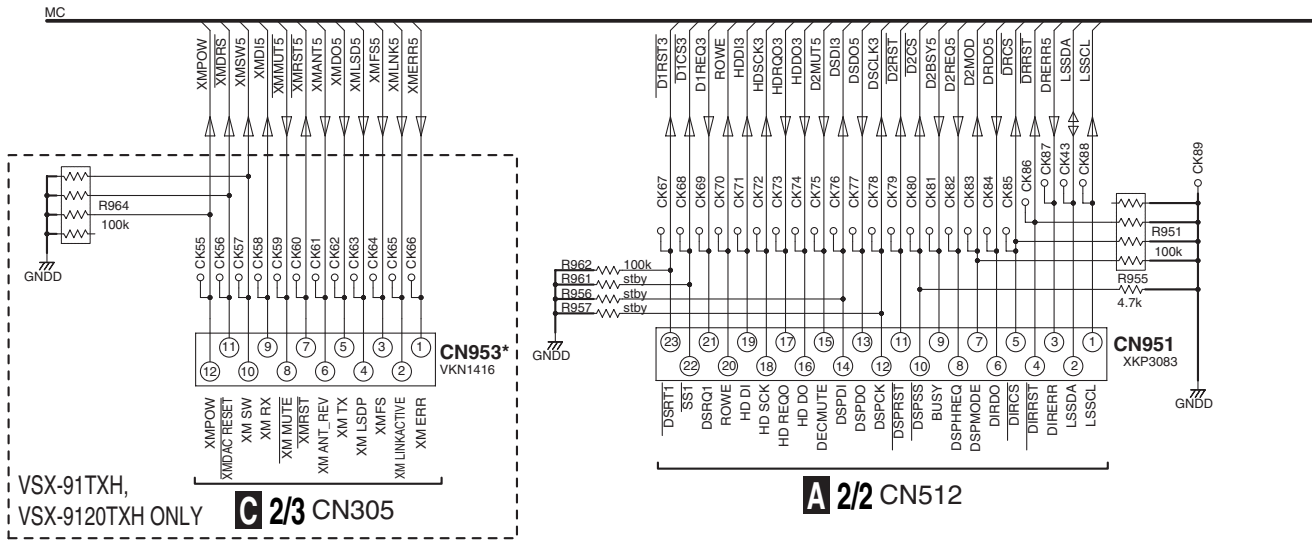
G 3/4 DSP ASSY (VSX-LX50 : AWX8814)
(VSX-91TXH, VSX-9120TXH : AWX8813)




(D): Audio Data Route
2nd DSP
IC201
DSPC56371AF180
BOOT MODE A B C D
DECODER 0 1 0 0
UCOM 1 0 1 0
V12A
V1D2
V32F
V3D2
GNDD
MC
MD
LCK2
BCK2
DT0O
DT1O
LCKO
BCKO
MCK2
STBY
DAX
BDTO
CDTO
SDTO
FDTO
SDI1
SDO3
SDO2
SDO1
SDO0
PF8
PF6
PF7
PF2
PF3
PF4
PF5
PF1
PF0
SCAN
SDI0_1
SDI1_1
PE8
PE9
BUSY
MUTE
RESET
PINIT
EXTAL
DT3O
DT2O
D2BSY3
D2MUT3
D2MOD
D2RST
OSC2
Q201
RT1N241M
DSDI3
DSDO3
DSCLK3
D2C5
D2REQ3
CK109

10.9 DSP ASSY (4/4)



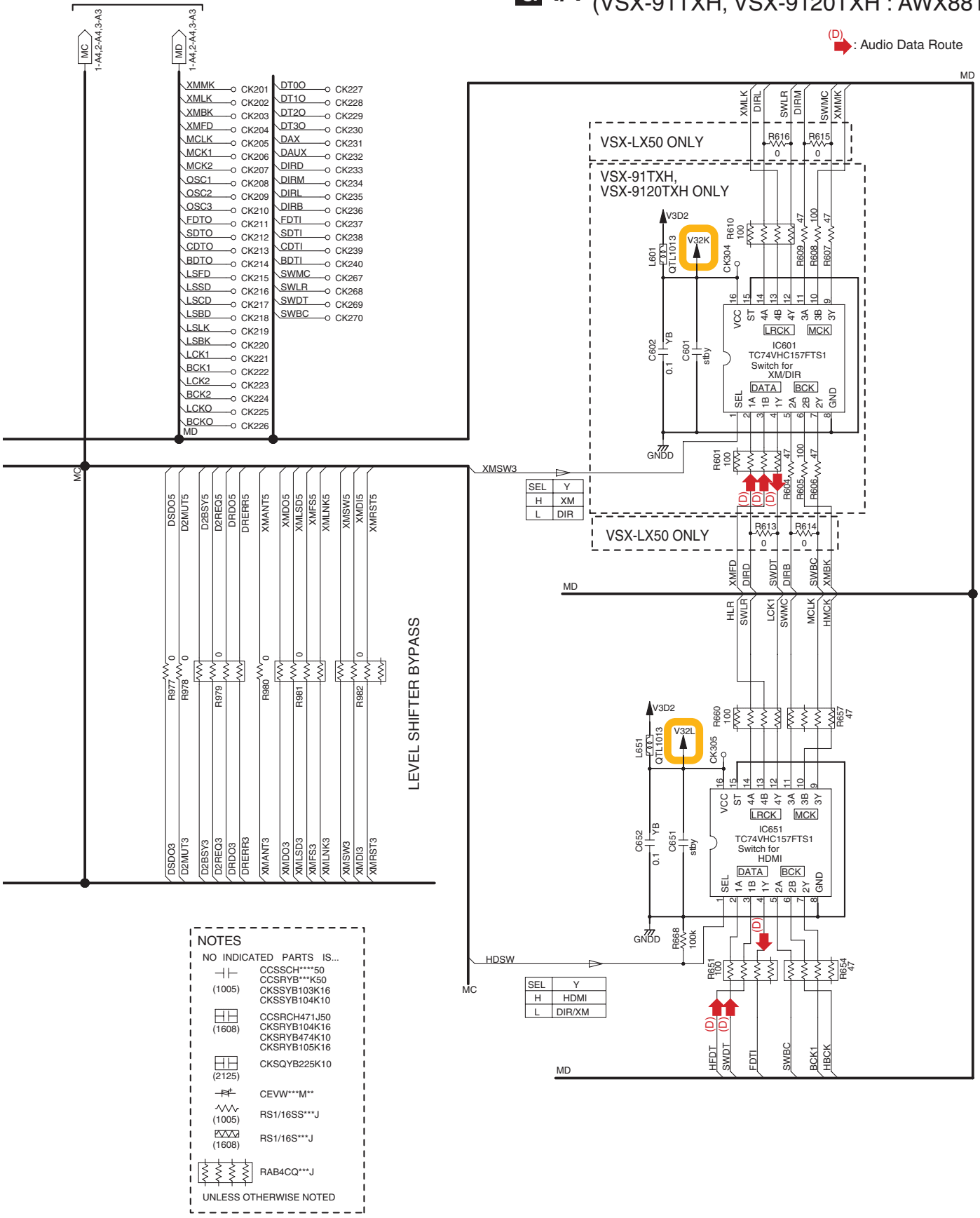


G 4/4

G 1/4 - 3/4

G 4/4 DSP ASSY (VSX-LX50 : AWX8814) (VSX-91TXH, VSX-9120TXH : AWX8813)

(D) : Audio Data Route



NOTES

NO INDICATED PARTS IS...

(1005)	CCSSCH****50 CCSRYB***K50 CKSSYB103K16 CKSSYB104K10
(1608)	CCSRCH471J50 CKSRYB104K16 CKSRYB474K10 CKSRYB105K16
(2125)	CKSQYB225K10
	CEVW***M**
(1005)	RS1/16SS***J
(1608)	RS1/16S***J
	RAB4CQ***J

UNLESS OTHERWISE NOTED

10.10 COMPOSITE ASSY

H COMPOSITE ASSY
(VSX-LX50 : AWX8842)
(VSX-91TXH, VSX-9120TXH : AWX8841)

IC1001 INPUT SELECTOR FOR VIDEO

51C	51B	51A	OUT
L	L	L	MUTE
L	L	H	DVR/VCR1
L	H	L	DVR/VCR2
L	H	H	DVD
H	L	L	TV
H	L	H	VIDEO
H	H	L	MUTE
H	H	H	iPod

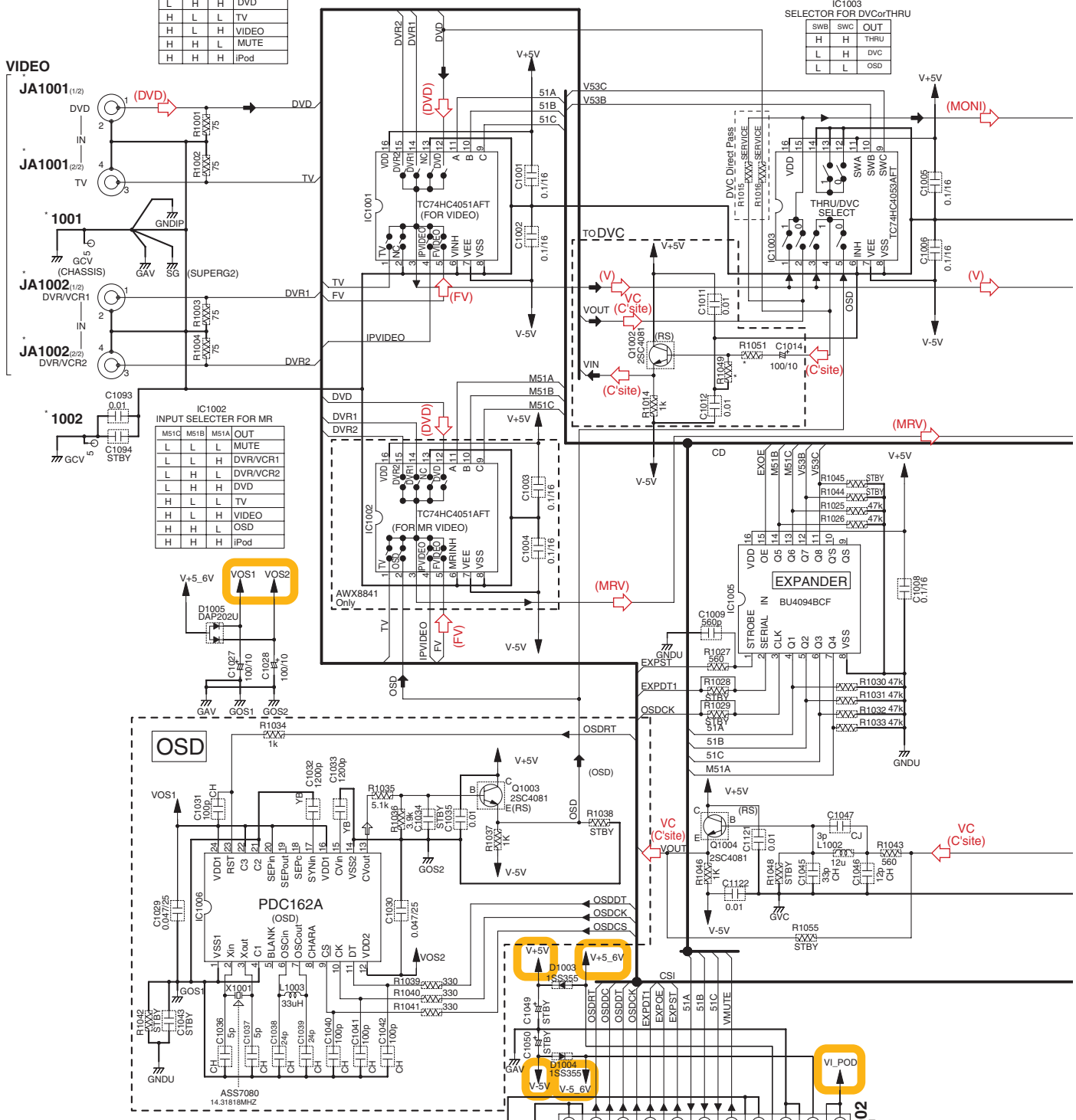
AWX / *	JA1001	JA1002	JA1003	JA1004	JA1005	JA1006
8841	AKB7176	←	←	←	AKB7181	X
8842	AKB7176	←	←	X	X	AKB7175

IC1003 SELECTOR FOR DVCorTHRU

SWB	SWC	OUT
H	H	THRU
L	H	DVC
L	L	OSD

IC1002 INPUT SELECTER FOR MR

M51C	M51B	M51A	OUT
L	L	L	MUTE
L	L	H	DVR/VCR1
L	H	L	DVR/VCR2
L	H	H	DVD
H	L	L	TV
H	L	H	VIDEO
H	H	L	OSD
H	H	H	iPod



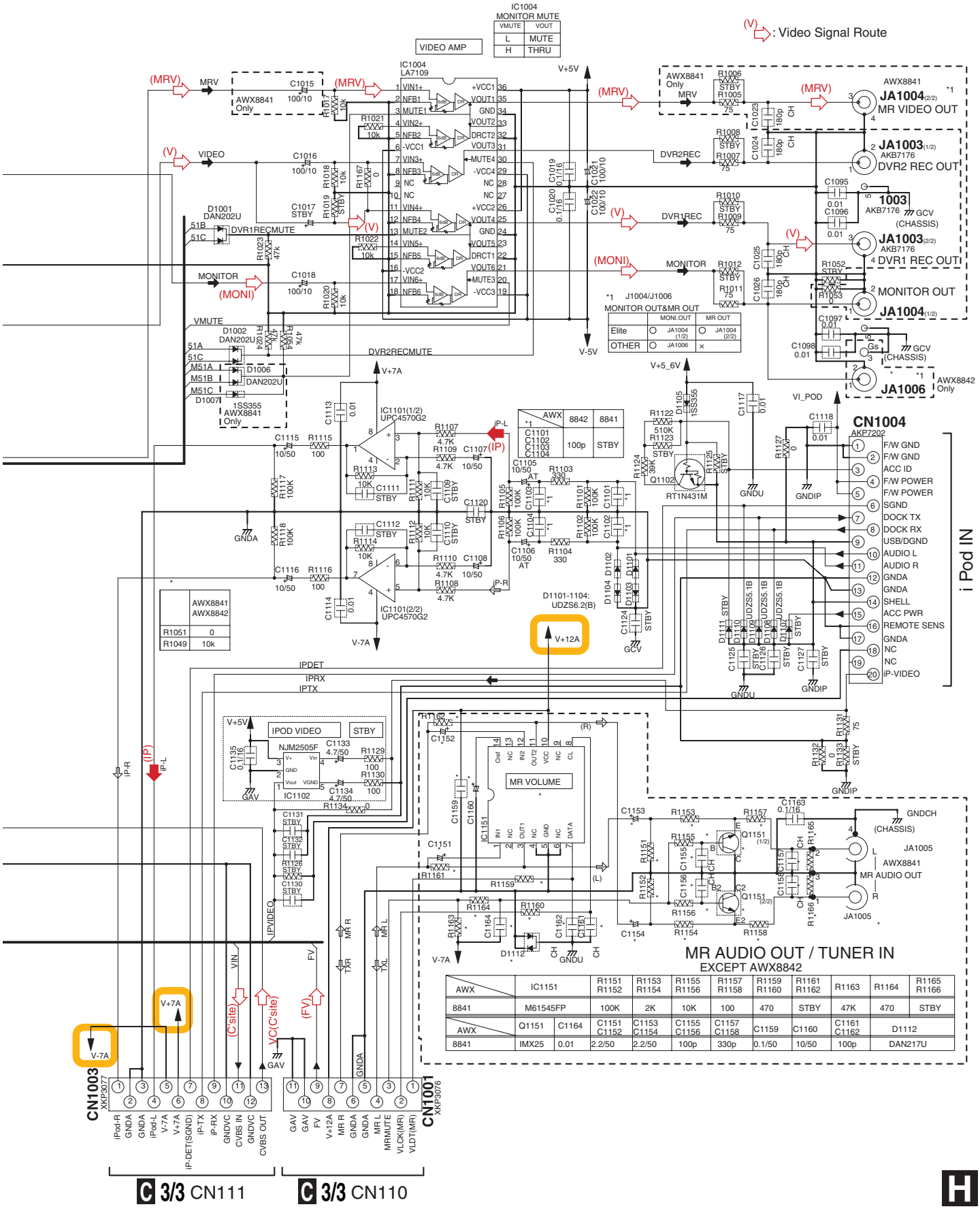
NOTES

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.
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as
"Capacity(μF)/Voltage(V)",
or 50V unless otherwise noted.

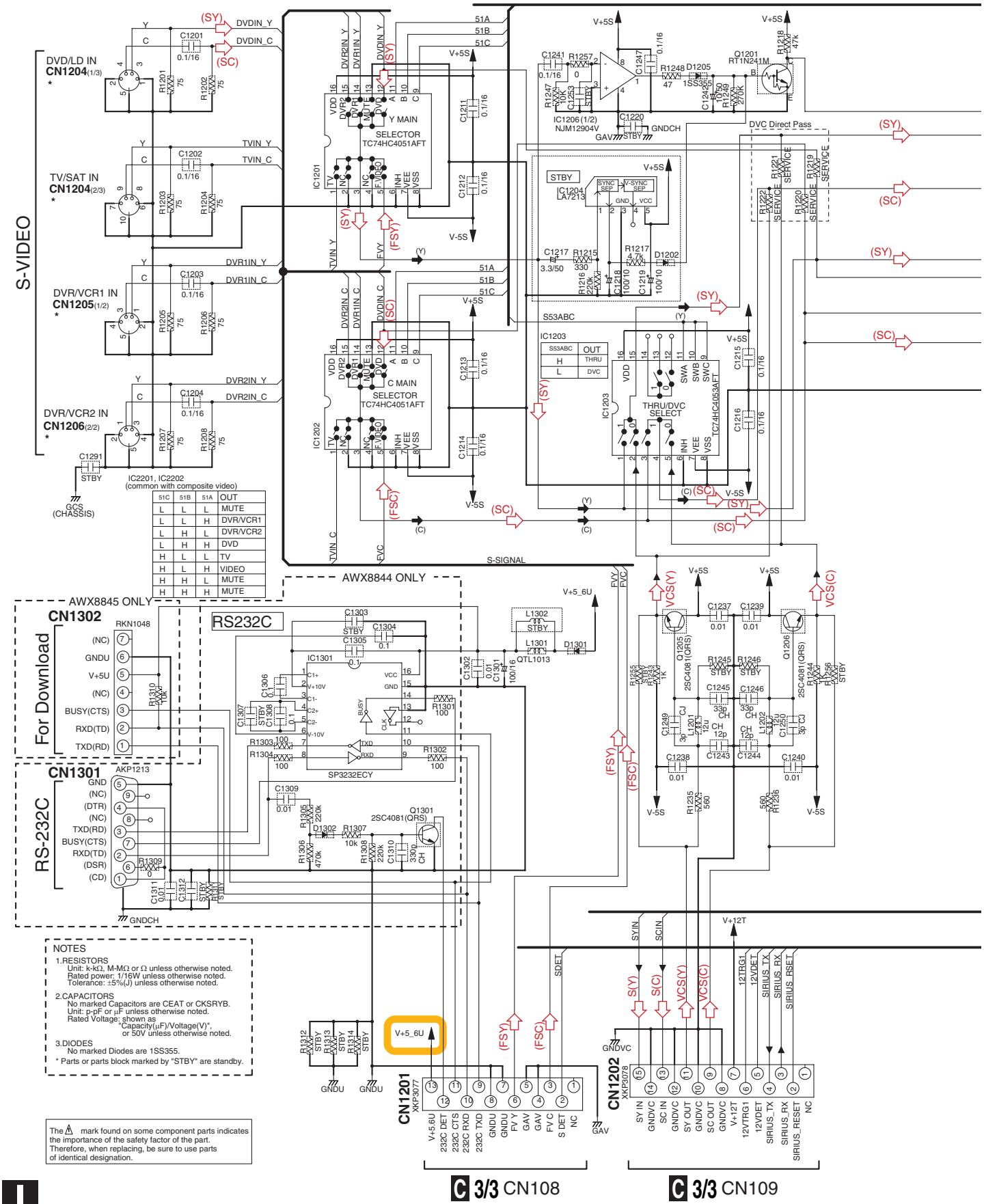
3.DIODES
No marked Diodes are 1SS355.
* Parts or parts block marked by "STBY" are standby.

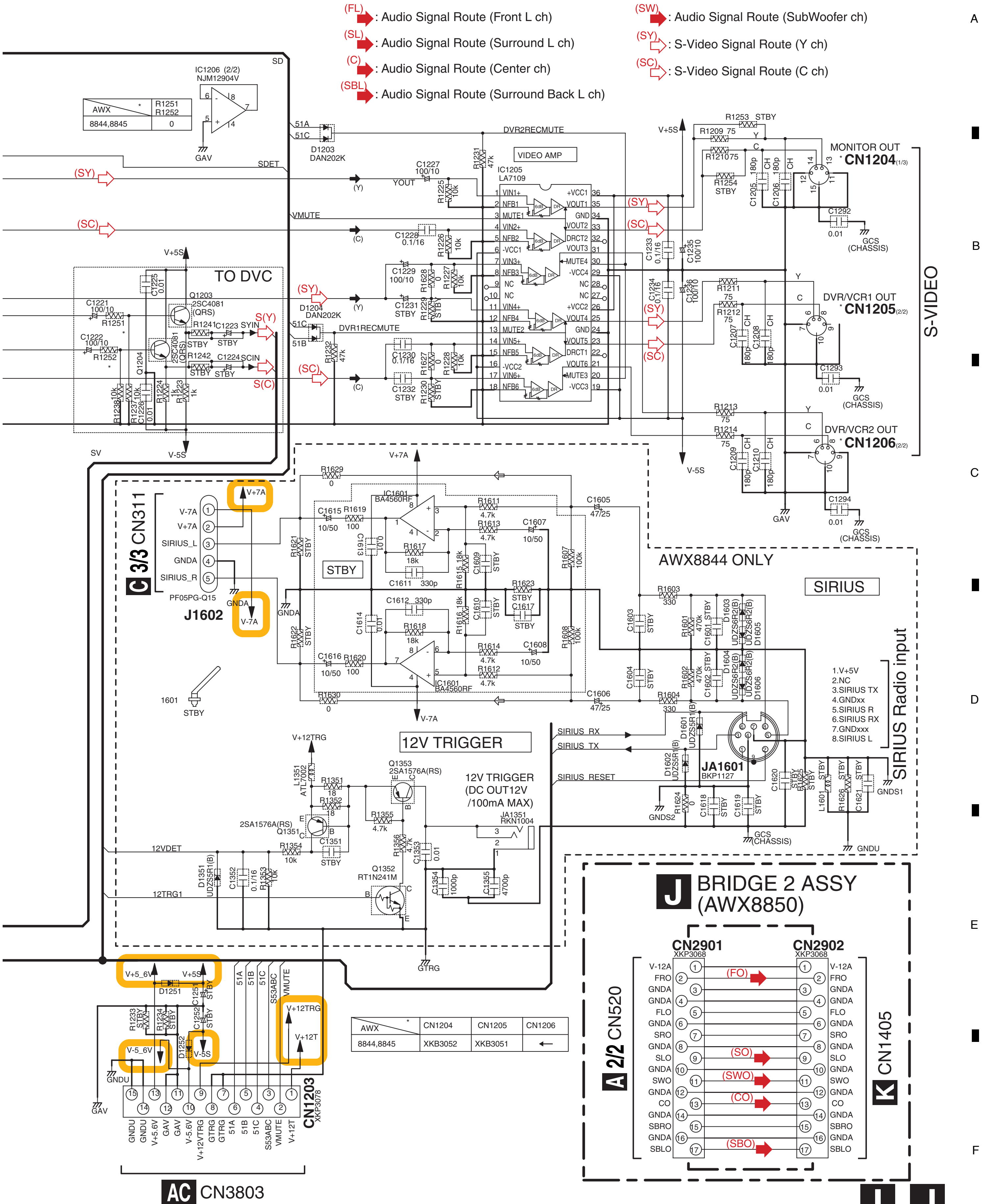
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

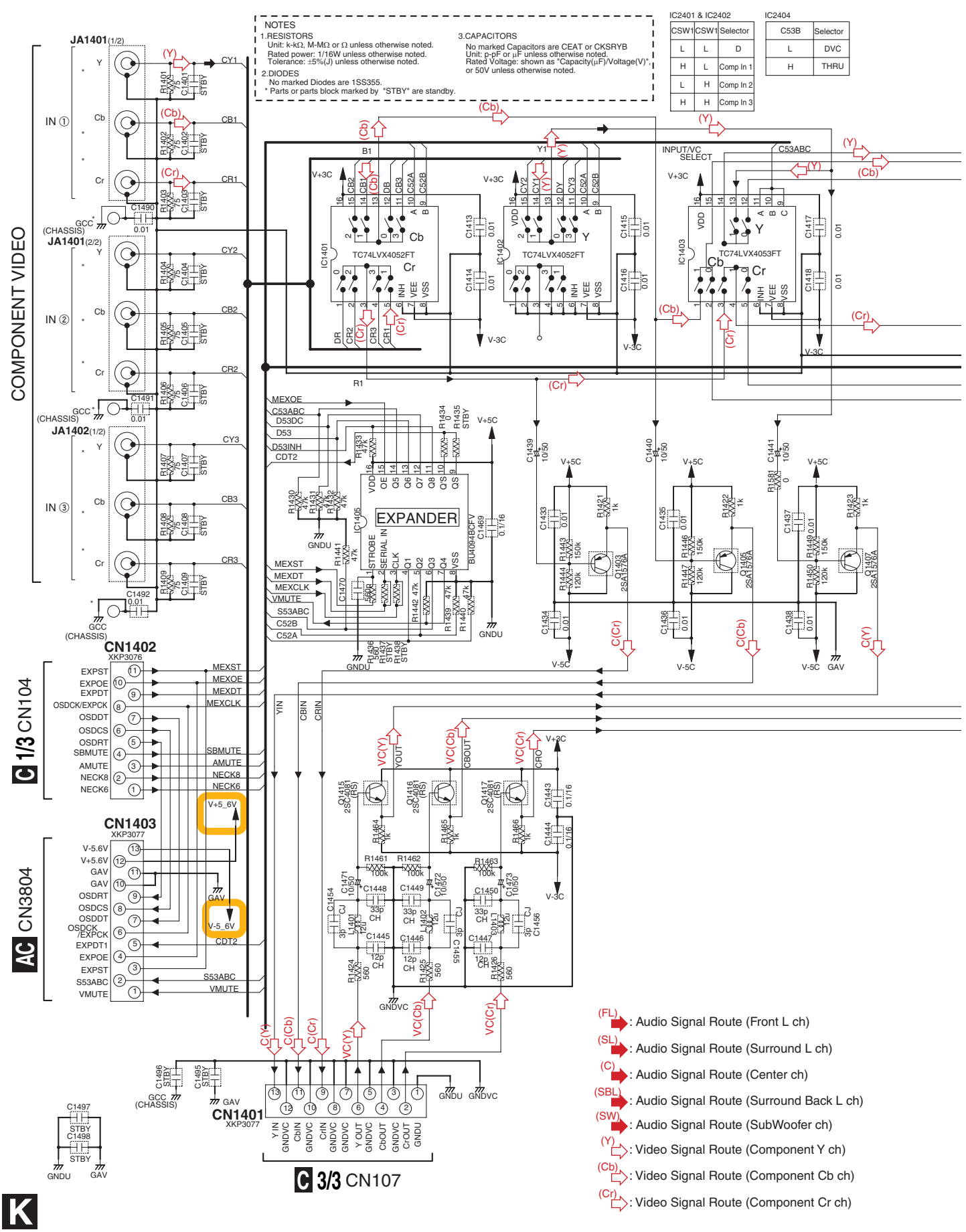

IC1004
MONITOR MUTE
VMUTE | VOUT
L | MUTE
H | THRU
VIDEO AMP
(V): Video Signal Route
IC1004
LA7709
V+5V
V-5V
(MRV)
MRV
AWX8841 Only
VIDEO
(MONI)
MONITOR
VMUTE
DVR2RECMUTE
DVR1RECMUTE
DVR2REC
DVR1REC
AWX8841
JA1004(2/2)
MR VIDEO OUT
JA1003(1/2)
AKB7176
DVR2 REC OUT
1003
AKB7176
GCV
(CHASSIS)
JA1003(2/2)
AKB7176
DVR1 REC OUT
MONITOR OUT
JA1004(1/2)
JA1006
AWX8842 Only
*1 J1004/J1006
MONITOR OUT&MR OUT
MONI.OUT | MR OUT
Elite | JA1004 (1/2) | JA1004 (2/2)
OTHER | JA1006 | ×
D1001 DAN202U
D1002 DAN202U
D1006 DAN202U
D1007 1SS355
AWX8841 Only
IC1101(1/2) UPC4570G2
IC1101(2/2) UPC4570G2
iP-L
iP-R
(IP)
AWX | 8842 | 8841
*1 C1101 C1102 C1103 C1104 | 100p | STBY
AWX8841 AWX8842
R1051 | 0
R1049 | 10k
D1101-1104: UDZS6.2(B)
RT1N431M
VI_POD
CN1004
AKP7202
F/W GND
F/W GND
ACC ID
F/W POWER
F/W POWER
SGND
DOCK TX
DOCK RX
USB/DGND
AUDIO L
AUDIO R
GNDA
GNDA
SHELL
ACC PWR
REMOTE SENS
GNDA
NC
NC
IP-VIDEO
i Pod IN
GNDU
GNDIP
GNDA
GCV
V+5_6V
V+7A
V-7A
V+12A
IPDET
IPRX
IPTX
IPOD VIDEO
STBY
NJM2505F
IC1102
MR VOLUME
IC1151
IPVIDEO
MR R
MR L
TXR
TXL
FV
VIN
(C'site)
VC(C'site)
(FV)
GAV
GNDCH
JA1005
MR AUDIO OUT / TUNER IN
EXCEPT AWX8842
AWX | IC1151 | R1151 R1152 | R1153 R1154 | R1155 R1156 | R1157 R1158 | R1159 R1160 | R1161 R1162 | R1163 | R1164 | R1165 R1166
8841 | M61545FP | 100K | 2K | 10K | 100 | 470 | STBY | 47K | 470 | STBY
AWX | Q1151 | C1164 | C1151 C1152 | C1153 C1154 | C1155 C1156 | C1157 C1158 | C1159 | C1160 | C1161 C1162 | D1112
8841 | IMX25 | 0.01 | 2.2/50 | 2.2/50 | 100p | 330p | 0.1/50 | 10/50 | 100p | DAN217U
CN1003
XKP3077
iPod-R
GNDA
GNDA
iPod-L
V-7A
V+7A
iP-DET(SGND)
iP-TX
iP-RX
GNDVC
CVBS IN
GNDVC
CVBS OUT
CN1001
XKP3076
GAV
GAV
FV
V+12A
MR R
GNDA
GNDA
MR L
MRMUTE
VLCK(MR)
VLDT(MR)
C 3/3 CN111
C 3/3 CN110

10.11 S-VIDEO and BRIDGE 2 ASSYS

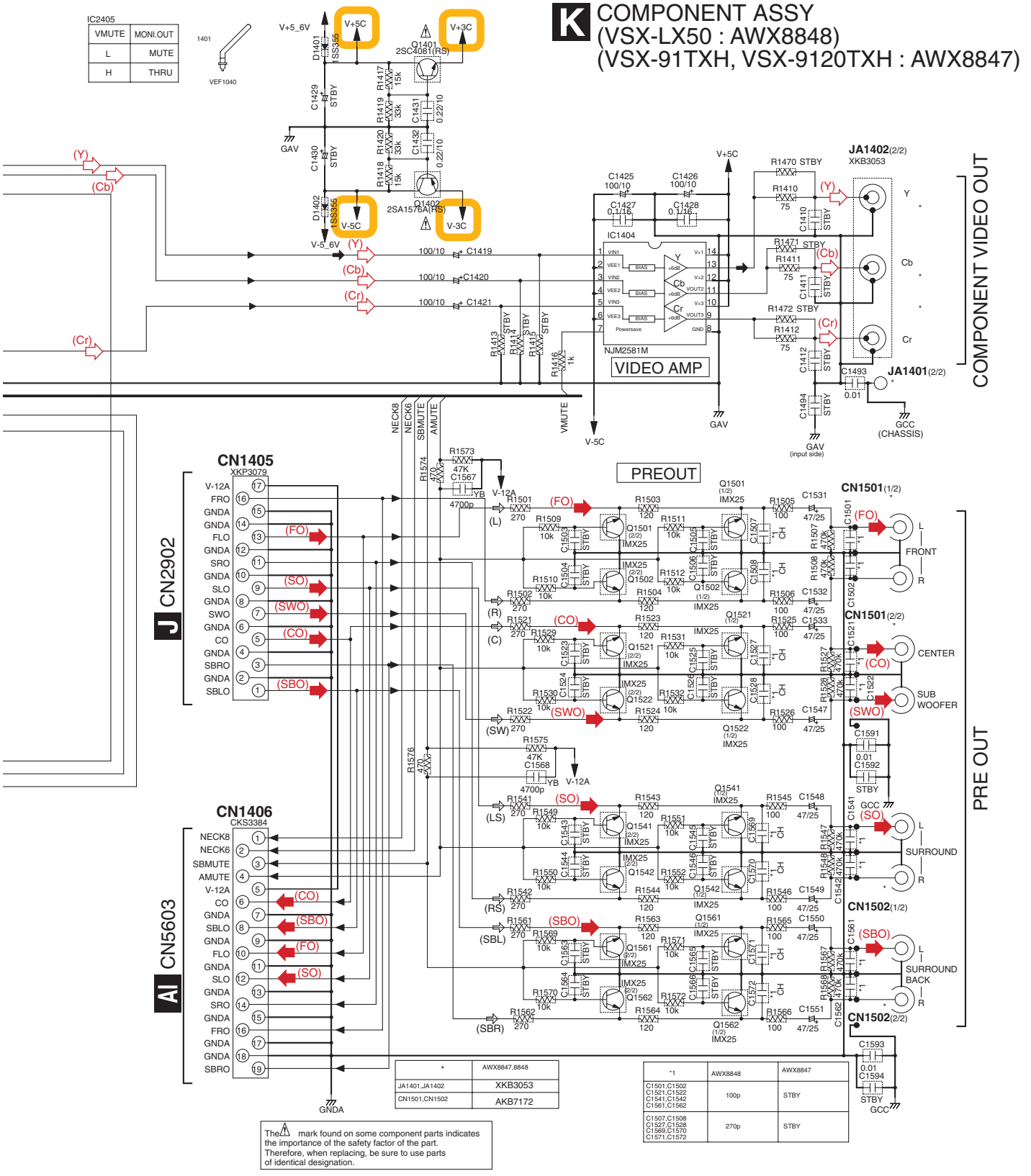
S-VIDEO ASSY (VSX-LX50 : AWX8845)
(VSX-91TXH, VSX-9120TXH : AWX8844)




(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center ch)
(SBL): Audio Signal Route (Surround Back L ch)
(SW): Audio Signal Route (SubWoofer ch)
(SY): S-Video Signal Route (Y ch)
(SC): S-Video Signal Route (C ch)
AWX * R1251 R1252
8844,8845 0
IC1206 (2/2) NJM12904V
D1203 DAN202K
DVR2RECMUTE
VIDEO AMP
IC1205 LA7109
TO DVC
Q1203 2SC4081 (QRS)
Q1204 2SC4081 (QRS)
D1204 DAN202K
DVR1RECMUTE
MONITOR OUT CN1204 (1/3)
DVR/VCR1 OUT CN1205 (2/2)
DVR/VCR2 OUT CN1206 (2/2)
S-VIDEO
GCS (CHASSIS)
C 3/3 CN311
V-7A
V+7A
SIRIUS_L
GNDA
SIRIUS_R
PF05PG-Q15
J1602
IC1601 BA4560RF
STBY
AWX8844 ONLY
SIRIUS
1.V+5V
2.NC
3.SIRIUS TX
4.GNDxx
5.SIRIUS R
6.SIRIUS RX
7.GNDxxx
8.SIRIUS L
SIRIUS Radio input
JA1601 BKP1127
SIRIUS_RX
SIRIUS_TX
SIRIUS_RESET
12V TRIGGER
12V TRIGGER (DC OUT12V /100mA MAX)
JA1351 RKN1004
Q1353 2SA1576A(RS)
Q1351 2SA1576A(RS)
Q1352 RT1N241M
L1351 ATL7002
12VDET
12TRG1
GTRG
J BRIDGE 2 ASSY (AWX8850)
CN2901 XKP3068
CN2902 XKP3068
A 2/2 CN520
K CN1405
V-12A, FRO, GNDA, GNDA, FLO, GNDA, SRO, GNDA, SLO, GNDA, SWO, GNDA, CO, GNDA, SBRO, GNDA, SBLO
(FO) (SO) (SWO) (CO) (SBO)
AWX * CN1204 CN1205 CN1206
8844,8845 XKB3052 XKB3051 ←
CN1203 XKP3078
GNDU, GNDU, V+5.6V, GAV, GAV, V-5.6V, V+12VTRG, GTRG, GTRG, 51A, 51B, 51C, S53ABC, VMUTE, V+12T
AC CN3803


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.DIODES
No marked Diodes are 1SS355.
* Parts or parts block marked by "STBY" are standby.
3.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.
IC2401 & IC2402
CSW1 CSW1 Selector
L L D
H L Comp In 1
L H Comp In 2
H H Comp In 3
IC2404
C53B Selector
L DVC
H THRU
COMPONENT VIDEO
JA1401 (1/2)
JA1401 (2/2)
JA1402 (1/2)
IN ①
IN ②
IN ③
CY1
CB1
CR1
CY2
CB2
CR2
CY3
CB3
CR3
GCC (CHASSIS)
IC1401
IC1402
IC1403
TC74LVX4052FT
TC74LVX4053FT
INPUT/VC SELECT
C53ABC
EXPANDER
BU4094BCFV
IC1405
CN1402
XKP3076
CN1403
XKP3077
CN1401
XKP3077
C 1/3 CN104
AC CN3804
C 3/3 CN107
MEXOE
C53ABC
D53DC
D53
D53INH
CDT2
MEXST
MEXDT
MEXCLK
VMUTE
S53ABC
C52B
C52A
EXPST
EXPOE
EXPDT
OSDCK/EXPCK
OSDDT
OSDCS
OSDRT
SBMUTE
AMUTE
NECK8
NECK6
V+5_6V
V-5_6V
GAV
V-5.6V
V+5.6V
EXPDT1
S53ABC
VMUTE
YIN
CBIN
CRIN
V+3C
V+5C
V-3C
V-5C
GNDU
GNDVC
(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center ch)
(SBL): Audio Signal Route (Surround Back L ch)
(SW): Audio Signal Route (SubWoofer ch)
(Y): Video Signal Route (Component Y ch)
(Cb): Video Signal Route (Component Cb ch)
(Cr): Video Signal Route (Component Cr ch)

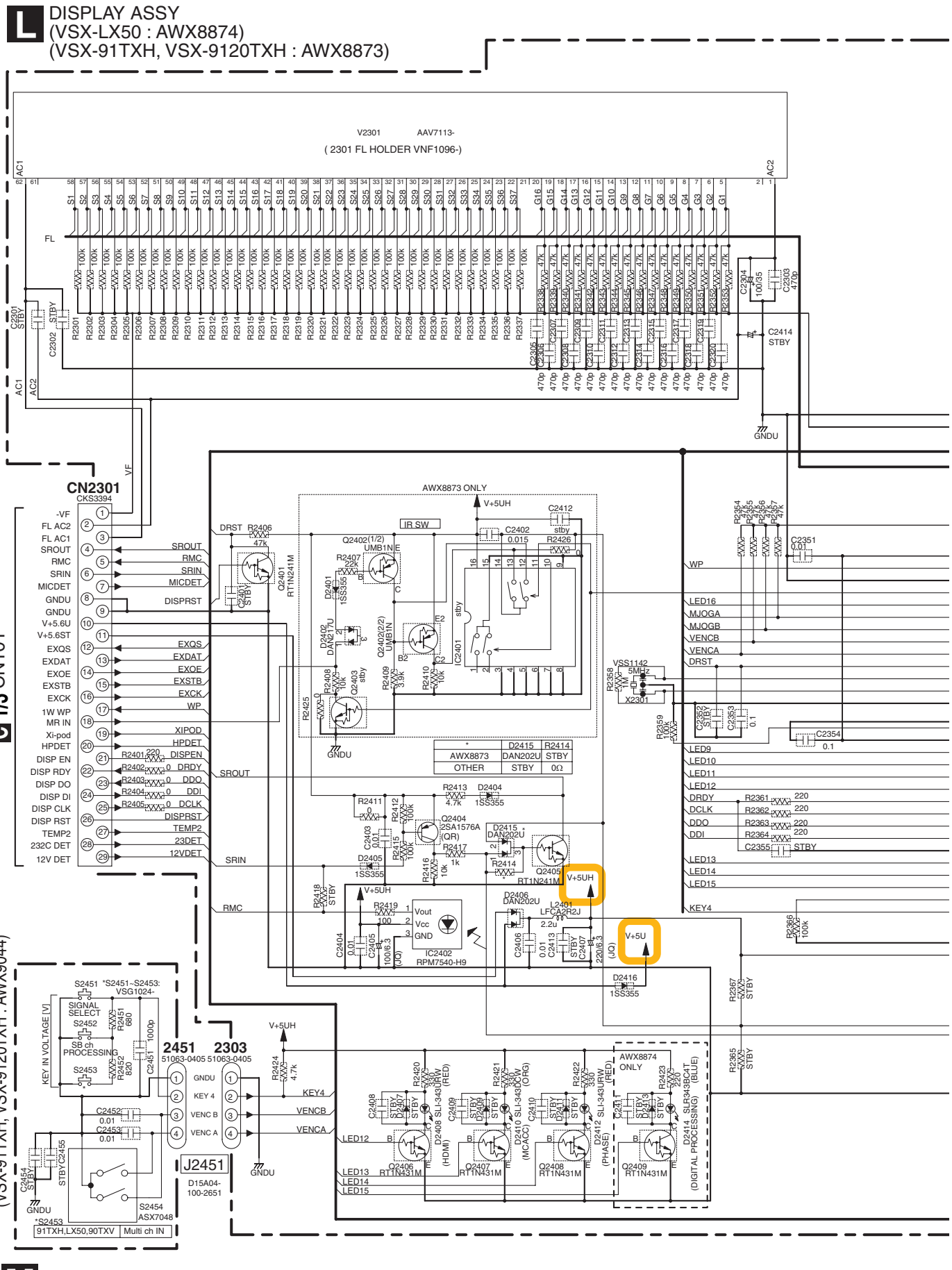
K COMPONENT ASSY
(VSX-LX50 : AWX8848)
(VSX-91TXH, VSX-9120TXH : AWX8847)



*	AWX8847,8848
JA1401,JA1402	XKB3053
CN1501,CN1502	AKB7172

*1	AWX8848	AWX8847
C1501,C1502 C1521,C1522 C1541,C1542 C1561,C1562	100p	STBY
C1507,C1508 C1527,C1528 C1569,C1570 C1571,C1572	270p	STBY

10.13 DISPLAY, VOLUME and MULTI JOG ASSYS



N MULTI JOG ASSY
(VSX-LX50 : AWX8880)
(VSX-91TXH, VSX-9120TXH : AWX8879)

J2501 D20PDD1715E

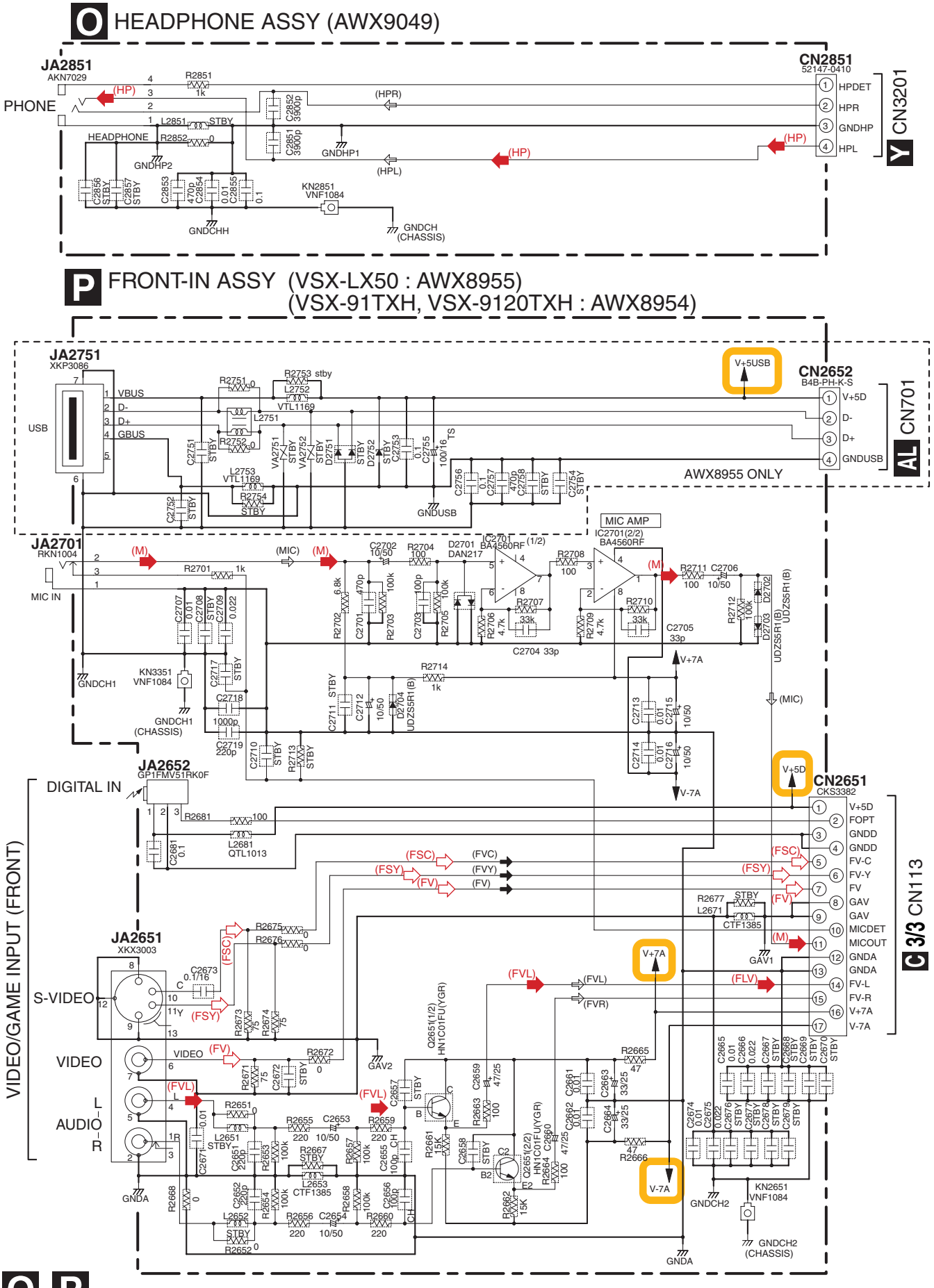
*KEY NAME	S2551	S2552	S2553	S2554	S2555	S2556	S2557	S2558	S2565	S2566	S2572	S2573	S2577
VSX-91TXH VSX-9120TXH	VIDEO /GAME	CD	CD-R /TAPE /MD	FM/ AM	XM	SIRIUS	iPOD	HDMI	TUNING STATION	TUNER EDIT	Multi ZONE	Multi ZONE Control	DVR1/ DVR2
	DVR/ VCR2	VIDEO /GAME	CD	CD-R /TAPE /MD	FM/ AM	XM	SIRIUS	iPOD			Phase Control	Acoustic EQ	DVR/ VCR1
VSX-LX50	DVR/ VCR2	VIDEO /GAME	CD	CD-R /TAPE /MD	FM/ AM	USB	iPOD	HDMI Multi ch IN	↑	↑	EON MODE	PTY SEARTH	DVR/ VCR1

NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
3.DIODES
Indicated in 1SS355.
4.TACT SWITCHES
Indicated in VSG1024.

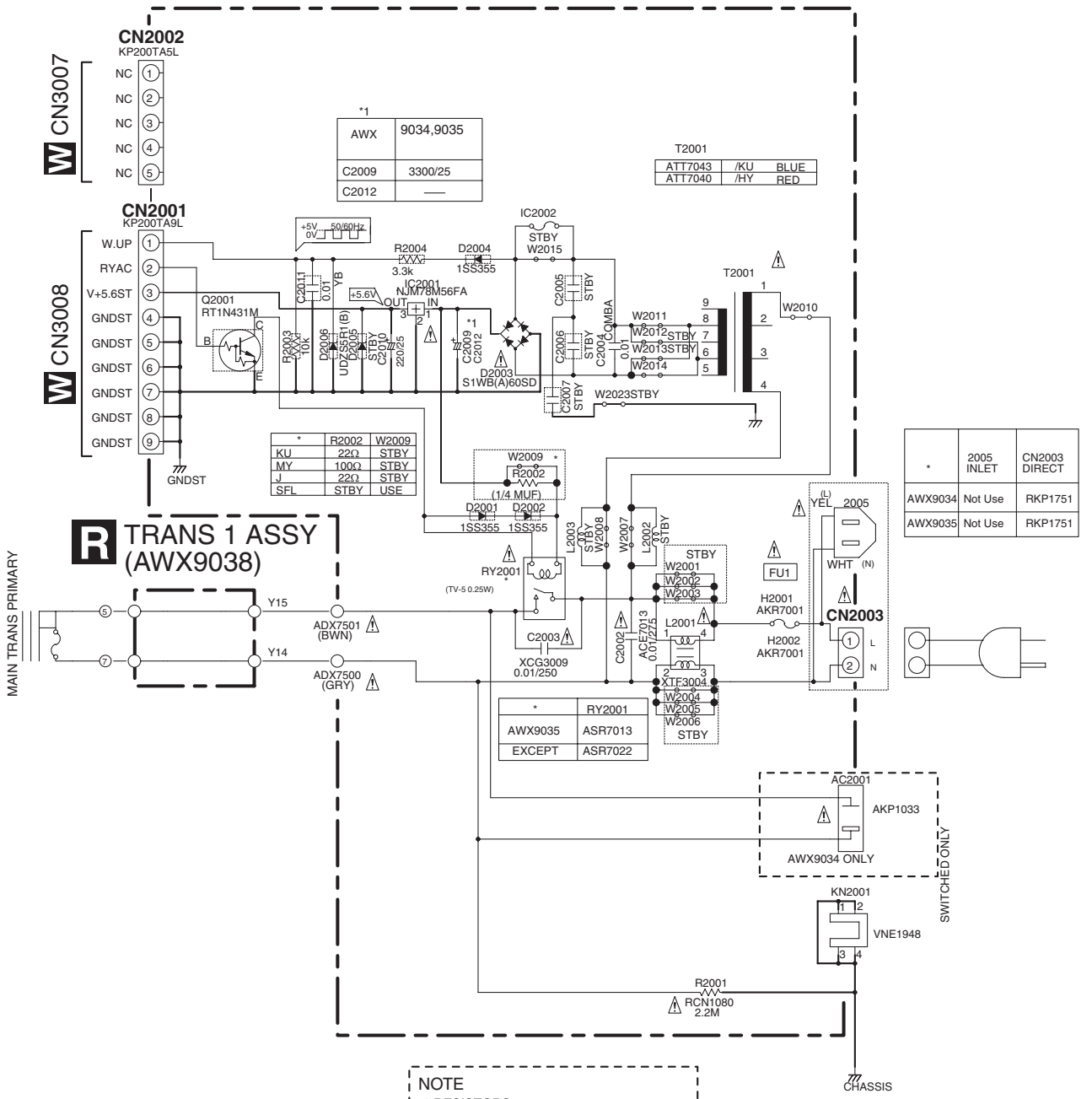
2302 51048-1700
2501 51048-1700

EXPANDER
IC2501 TC4094BF
S2501 ASX7031
IC2301 PE5503A (NEC) DISPLAY μ-COM
25kΩ Min 70kΩ Typ 135kΩ Max

10.14 HEADPHONE, FRONT-IN, PRIMARY and TRANS 1 ASSYS



Q PRIMARY ASSY (VSX-LX50 : AWX9035)
(VSX-91TXH, VSX-9120TXH : AWX9034)



*	R2002	W2009
KU	22Ω	STBY
MY	100Ω	STBY
J	22Ω	STBY
SFL	STBY	USE

*	RY2001
AWX9035	ASR7013
EXCEPT	ASR7022

*	2005 INLET	CN2003 DIRECT
AWX9034	Not Use	RKP1751
AWX9035	Not Use	RKP1751

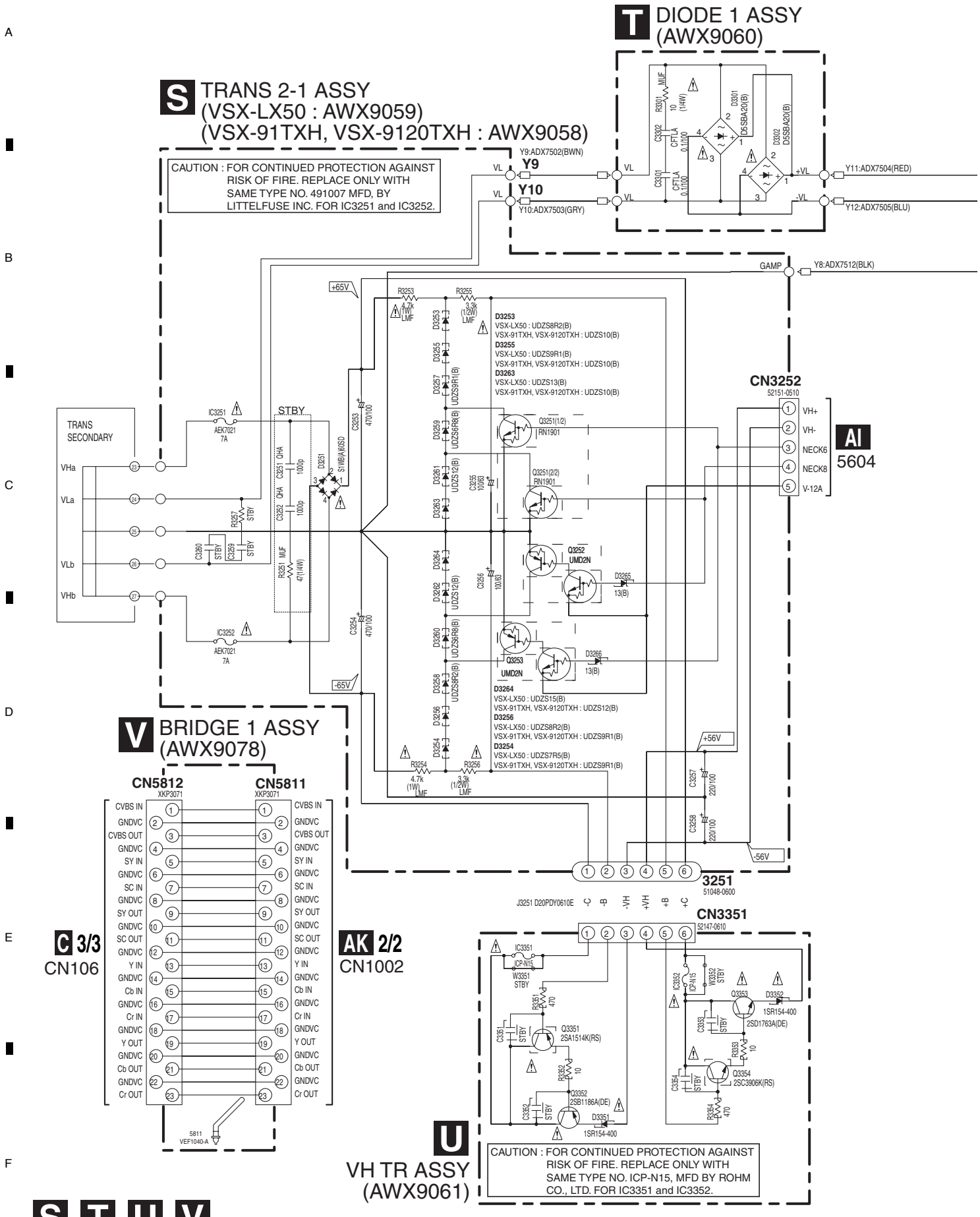
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
3.DIODES
Indicated in 1SS355.

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

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.

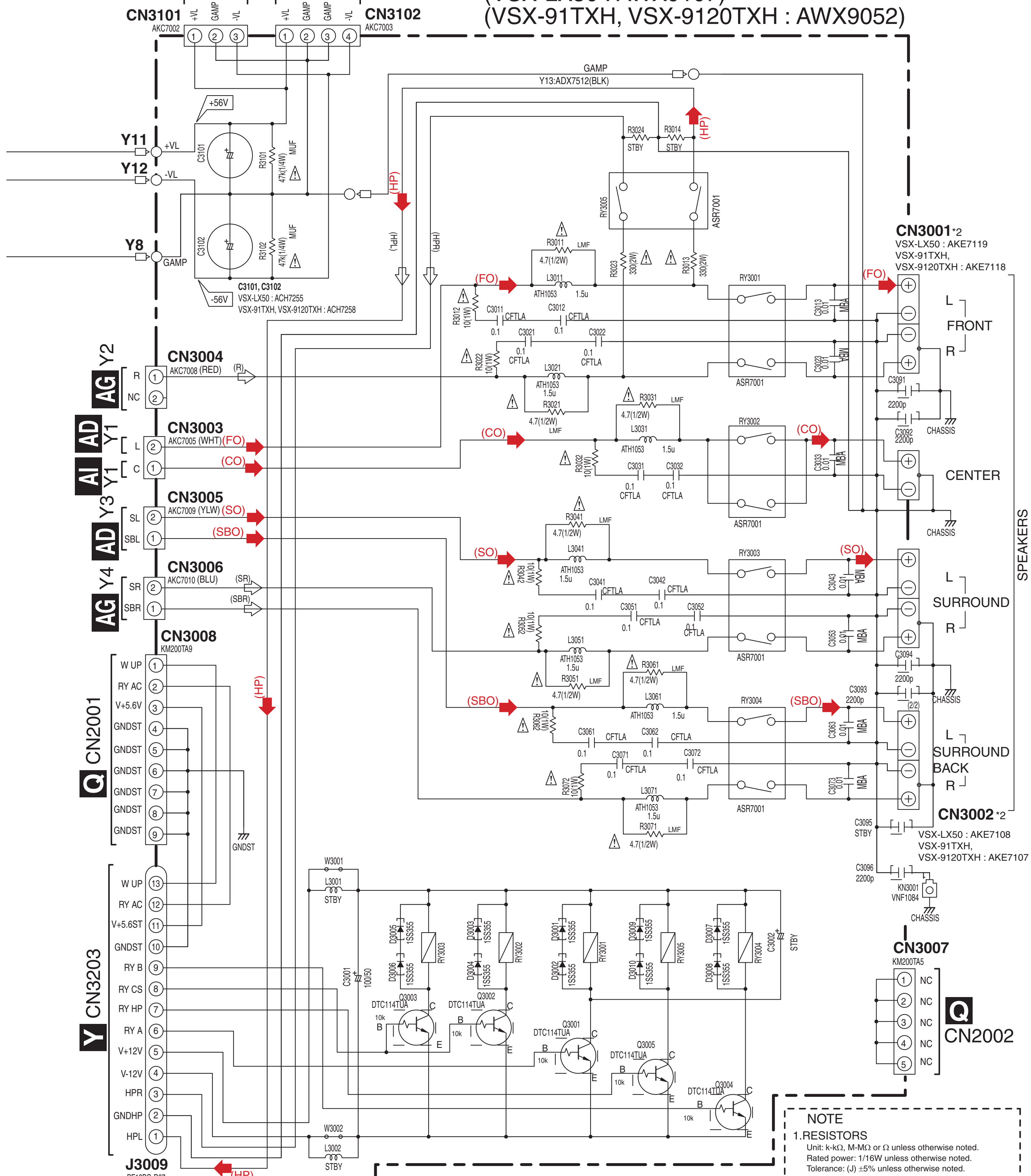
(L): Audio Signal Route (L ch)
(M): Audio Signal Route (Mic ch)
(V): Video Signal Route
(SY): S-Video Signal Route (Y ch)
(SC): S-Video Signal Route (C ch)

10.15 TRANS 2-1, DIODE 1, VH TR, BRIDGE 1 and PS/SP ASSYS



S T U V

W PS/SP ASSY
(VSX-LX50 : AWX9107)
(VSX-91TXH, VSX-9120TXH : AWX9052)



AWX / *2	9052 9054	9053 9055 9107 9108
CN3001 CN3002	AKE7118 AKE7107	AKE7119 AKE7108

(FL) : Audio Signal Route (Front L ch)

(SL) : Audio Signal Route (Surround L ch)

(C) : Audio Signal Route (Center ch)

(SBL) : Audio Signal Route (Surround Back L ch)

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.
LMF:RD1/2LMF,MUF:RD1/4MUF

2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
MBA:CQMBA, LA:CFTLA, QHA:CQHA

10.16 TRANS 2-2, TRANS SIDE, LOCAL P-SUPPLY, DC/DC, IR I/O and VIDEO CONNECT ASSYS

Z LOCAL P-SUPPLY ASSY
(VSX-LX50 : AWX9064)
(VSX-91TXH, VSX-9120TXH : AWX9063)

• NOTE FOR FUSE REPLACEMENT

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

FU4
VSX-LX50 : REK1028 (T4AL/250V)
VSX-91TXH, VSX-9120TXH : REK1067 (5A/125V)
FU5, FU6
VSX-LX50 : REK1021 (T800mAL/250V)
VSX-91TXH, VSX-9120TXH : REK1143 (1.25A/125V)
FU7, FU8
VSX-LX50 : REK1026 (T2.5AL/250V)
VSX-91TXH, VSX-9120TXH : REK1146 (2.5A/125V)

J3401 PF12PG-R40
CN3501 B12B-PH-K-S

X TRANS 2-2 ASSY (AWX9062)

T1501 MAIN TRANS.
VSX-LX50 : ATS7408
VSX-91TXH, VSX-9120TXH : ATS7407

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 except for electrolytic capacitors.

Y TRANS SIDE ASSY (AWX9056)

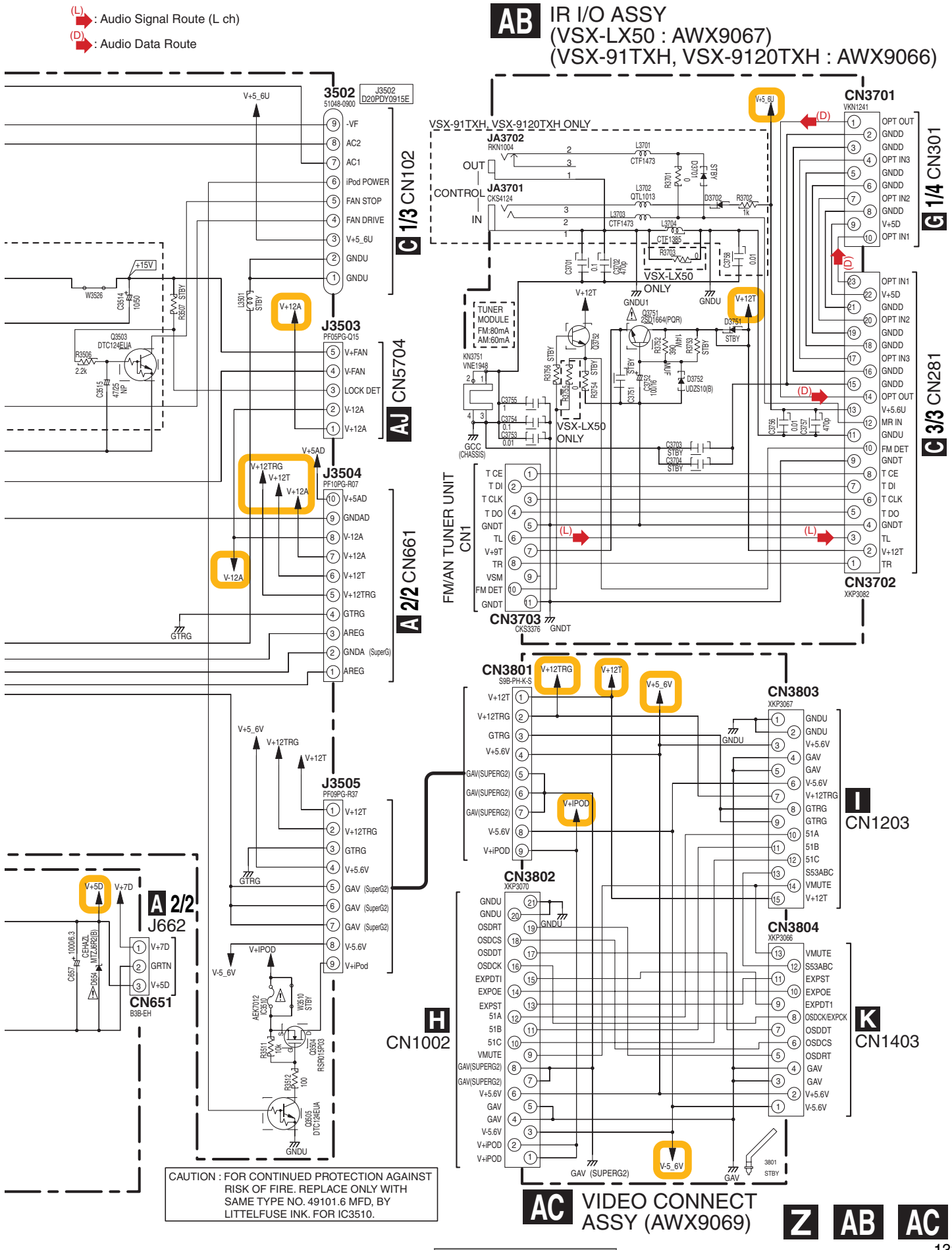
J3201 D20PDY0410E
CN2851 (O)
CN3201 51048-0400
CN5705 (AJ)
CN3202 CKS3382
CN3203 B13B-PH-K-S
R3202 - R3214,L3202 - L3214:STBY

W J3009

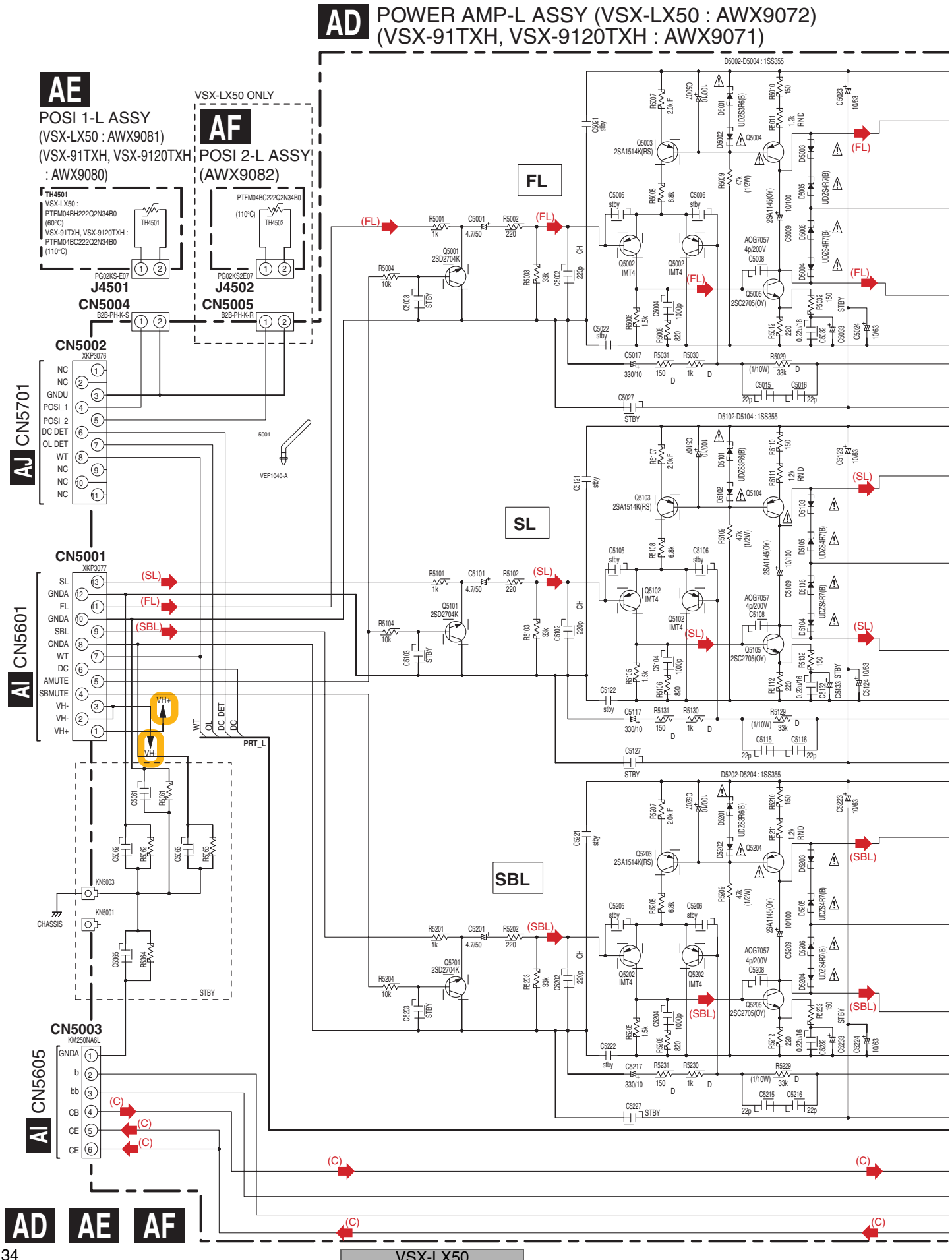
3506 51048-0400
J3506 D20PDY0410E
CN652 52147-0410

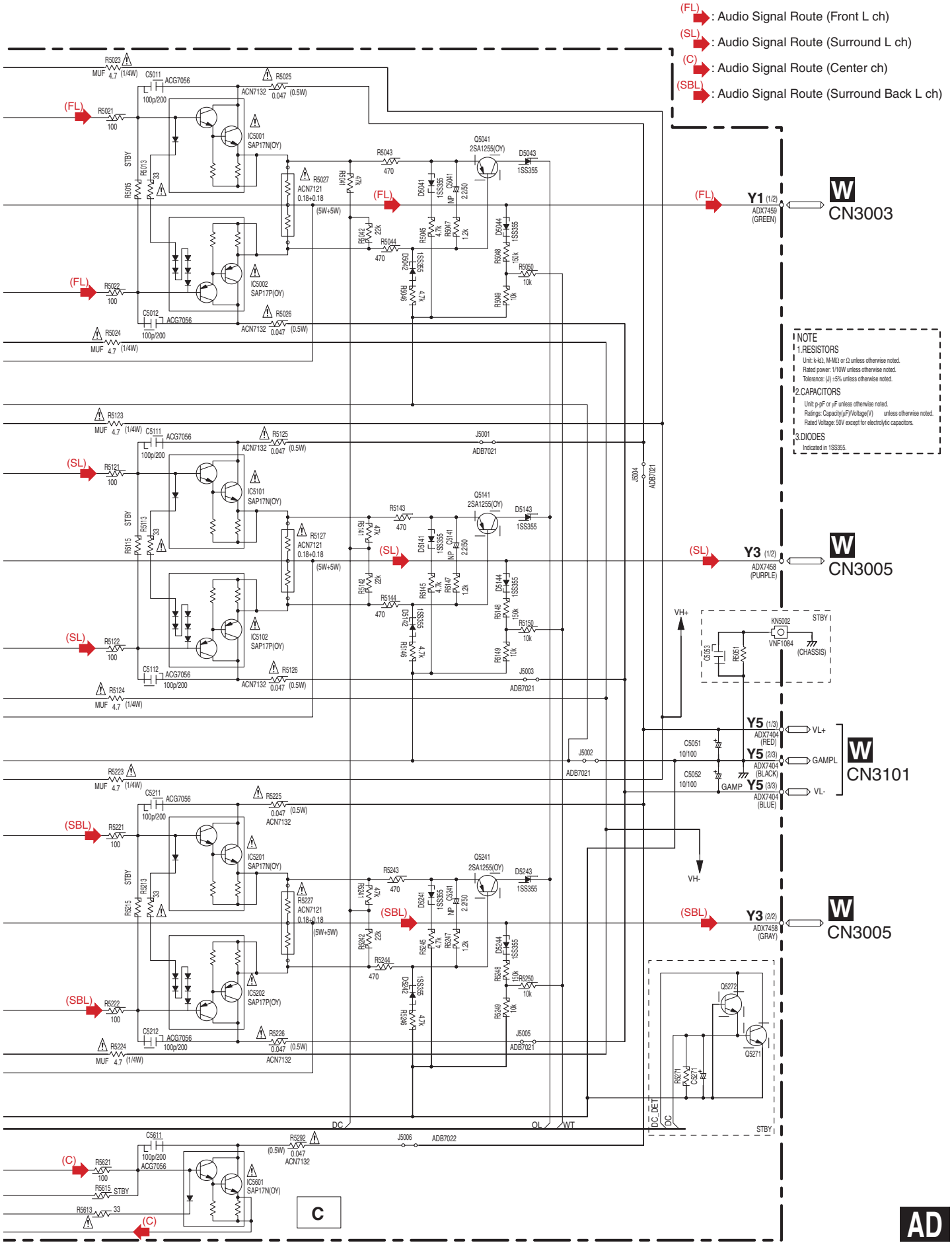
AA DC/DC ASSY (AWX9015)

VSX-LX50 ONLY

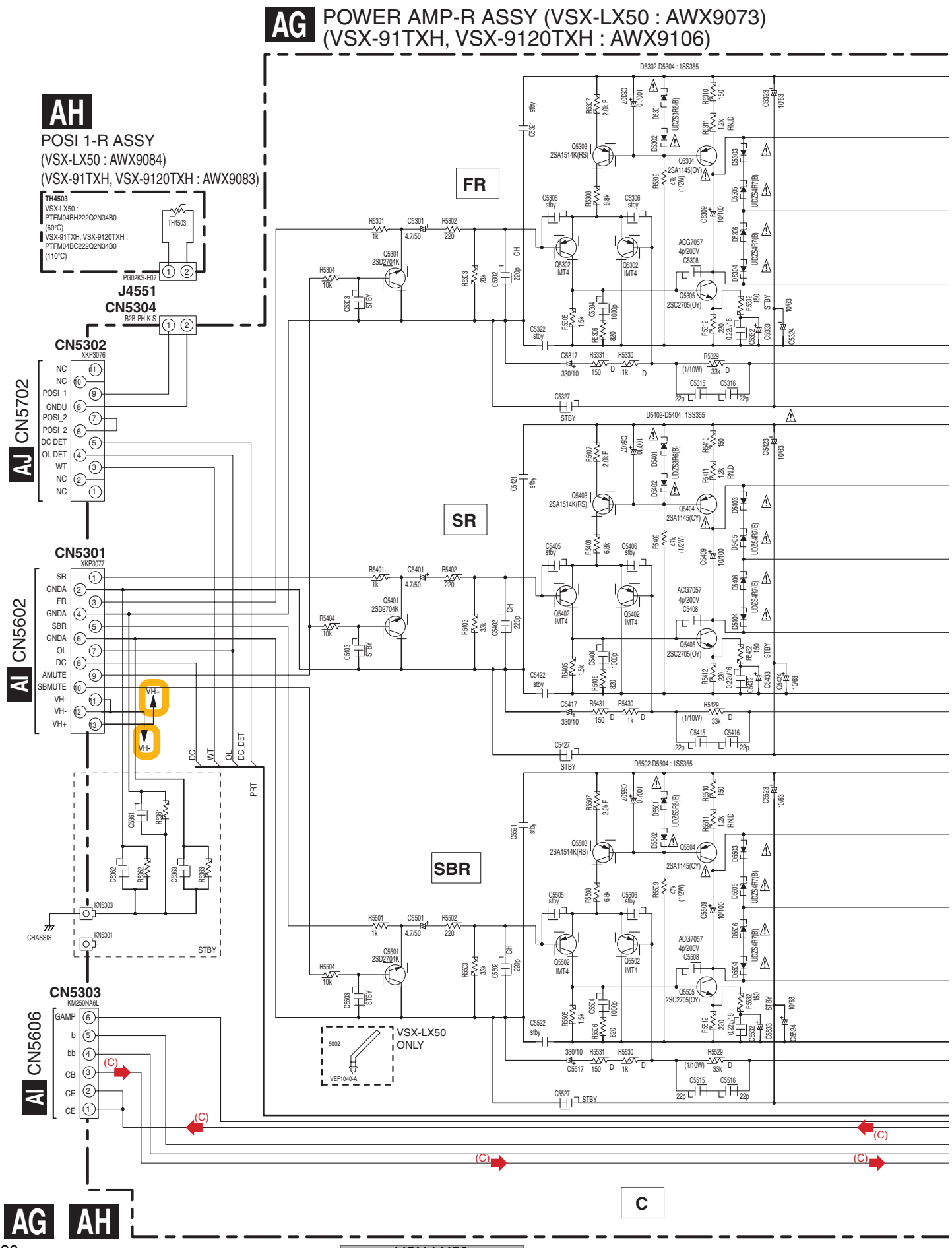

(L) : Audio Signal Route (L ch)
(D) : Audio Data Route
AB IR I/O ASSY
(VSX-LX50 : AWX9067)
(VSX-91TXH, VSX-9120TXH : AWX9066)
3502
51048-0900
J3502
D20PDY0915E
-VF
AC2
AC1
iPod POWER
FAN STOP
FAN DRIVE
V+5_6U
GNDU
GNDU
C 1/3 CN102
J3503
PF05PG-Q15
V+FAN
V-FAN
LOCK DET
V-12A
V+12A
AJ CN5704
J3504
PF10PG-R07
V+5AD
GNDAD
V-12A
V+12A
V+12T
V+12TRG
GTRG
AREG
GNDA (SuperG)
AREG
A 2/2 CN661
J3505
PF09PG-R37
V+12T
V+12TRG
GTRG
V+5.6V
GAV (SuperG2)
GAV (SuperG2)
GAV (SuperG2)
V-5.6V
V+iPod
A 2/2
J662
V+7D
GRTN
V+5D
CN651
B3B-EH
VSX-91TXH, VSX-9120TXH ONLY
JA3702
RKN1004
JA3701
CKS4124
OUT
CONTROL
IN
VSX-LX50 ONLY
TUNER MODULE
FM:80mA
AM:60mA
VSX-LX50 ONLY
GCC (CHASSIS)
FM/AN TUNER UNIT
CN1
T CE
T DI
T CLK
T DO
GNDT
TL
V+9T
TR
VSM
FM DET
GNDT
CN3703
CKS3376
GNDT
CN3701
VKN1241
OPT OUT
GNDD
GNDD
OPT IN3
GNDD
GNDD
OPT IN2
GNDD
GNDD
V+5D
OPT IN1
G 1/4 CN301
OPT IN1
V+5D
GNDD
OPT IN2
GNDD
GNDD
OPT IN3
GNDD
GNDD
OPT OUT
V+5.6U
MR IN
GNDU
FM DET
GNDT
T CE
T DI
T CLK
T DO
GNDT
TL
V+12T
TR
C 3/3 CN281
CN3702
XKP3082
CN3801
S9B-PH-K-S
V+12T
V+12TRG
GTRG
V+5.6V
GAV(SUPERG2)
GAV(SUPERG2)
GAV(SUPERG2)
V-5.6V
V+iPOD
CN3802
XKP3070
GNDU
GNDU
OSDRT
OSDCS
OSDDT
OSDCK
EXPDTI
EXPOE
EXPST
51A
51B
51C
VMUTE
GAV(SUPERG2)
GAV(SUPERG2)
V+5.6V
GAV
GAV
V-5.6V
V+iPOD
V+iPOD
H CN1002
CN3803
XKP3067
GNDU
GNDU
V+5.6V
GAV
GAV
V-5.6V
V+12TRG
GTRG
GTRG
51A
51B
51C
S53ABC
VMUTE
V+12T
I CN1203
CN3804
XKP3066
VMUTE
S53ABC
EXPST
EXPOE
EXPDT1
OSDCK/EXPCK
OSDDT
OSDCS
OSDRT
GAV
GAV
V+5.6V
V-5.6V
K CN1403
AC VIDEO CONNECT ASSY (AWX9069)
Z AB AC
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 49101.6 MFD, BY LITTELFUSE INK. FOR IC3510.

10.17 POWER AMP-L, POSI 1-L and POSI 2-L ASSYS

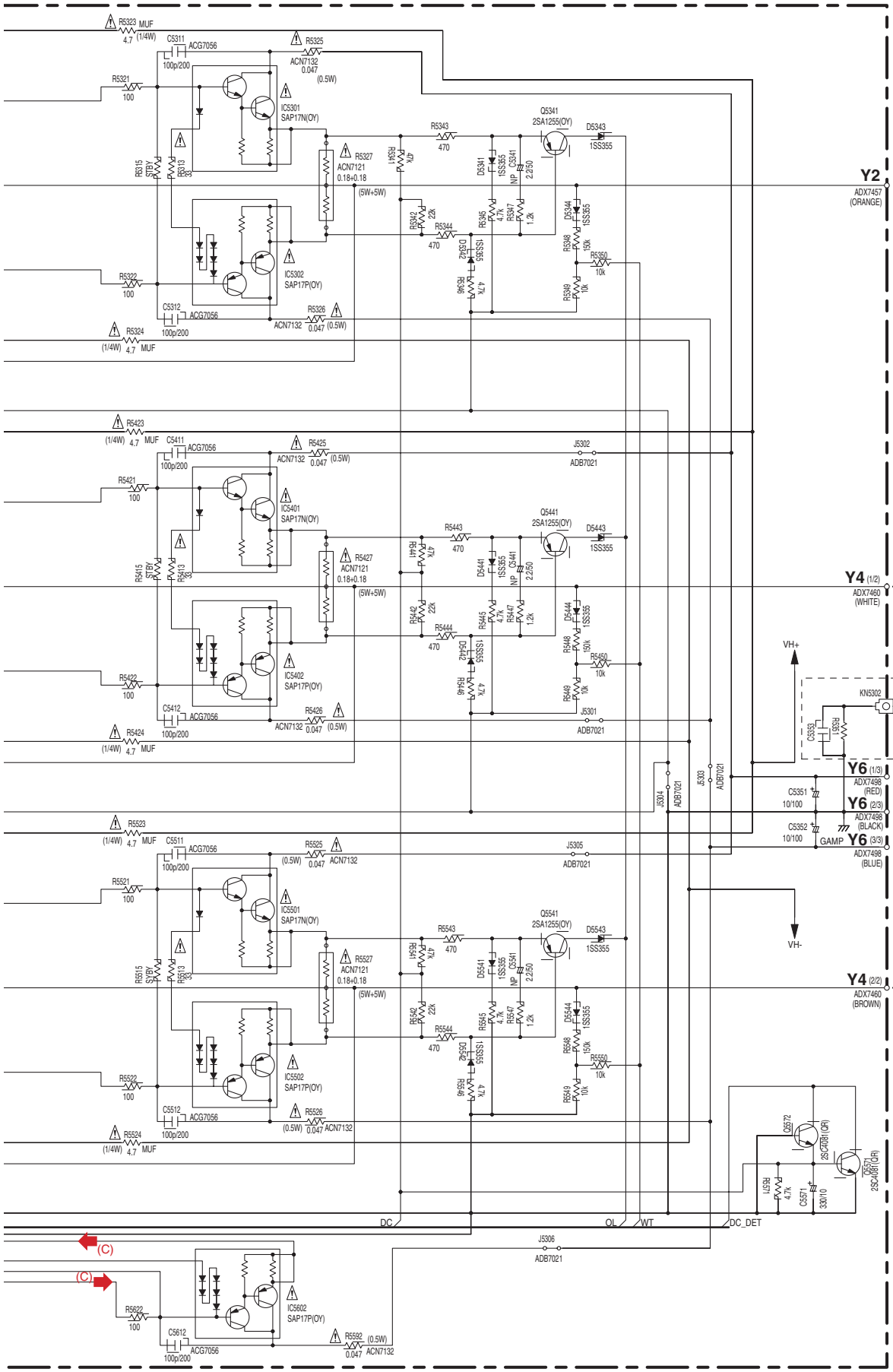



(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
3.DIODES
Indicated in 1SS355.
Y1 (1/2) ADX7459 (GREEN)
Y3 (1/2) ADX7458 (PURPLE)
Y3 (2/2) ADX7458 (GRAY)
Y5 (1/3) ADX7404 (RED)
Y5 (2/3) ADX7404 (BLACK)
Y5 (3/3) ADX7404 (BLUE)
CN3003
CN3005
CN3005
CN3101
VL+
GAMPL
VL-
VH+
VH-
GAMP
STBY
DC
OL
WT
DC_DET
IC5001 SAP17N(OY)
IC5002 SAP17P(OY)
IC5101 SAP17N(OY)
IC5102 SAP17P(OY)
IC5201 SAP17N(OY)
IC5202 SAP17P(OY)
IC5601 SAP17N(OY)
ACN7132
ACN7121
ACG7056
ADB7021
ADB7022
VNF1084
(CHASSIS)
C

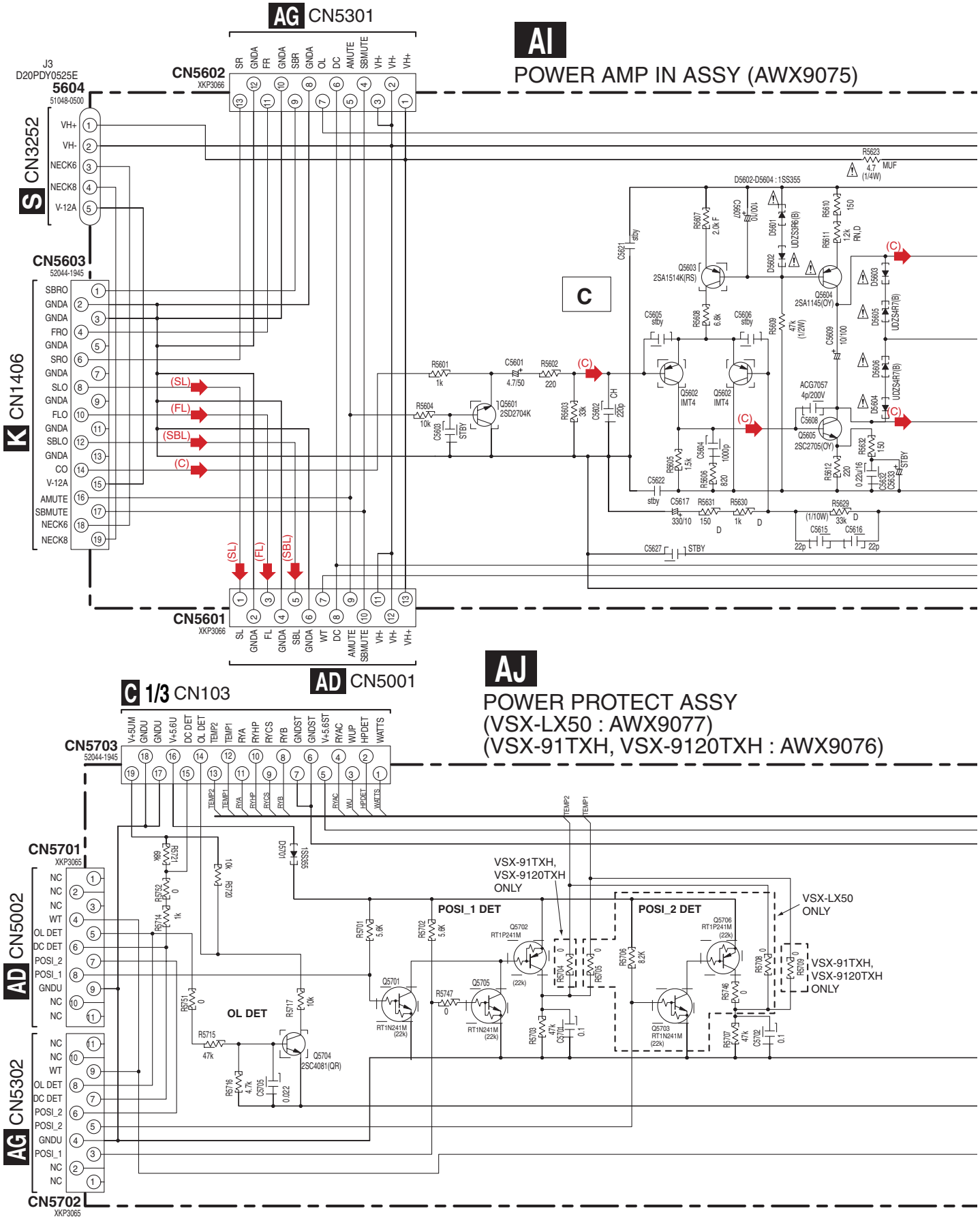
10.18 POWER AMP-R and POSI 1-R ASSYS



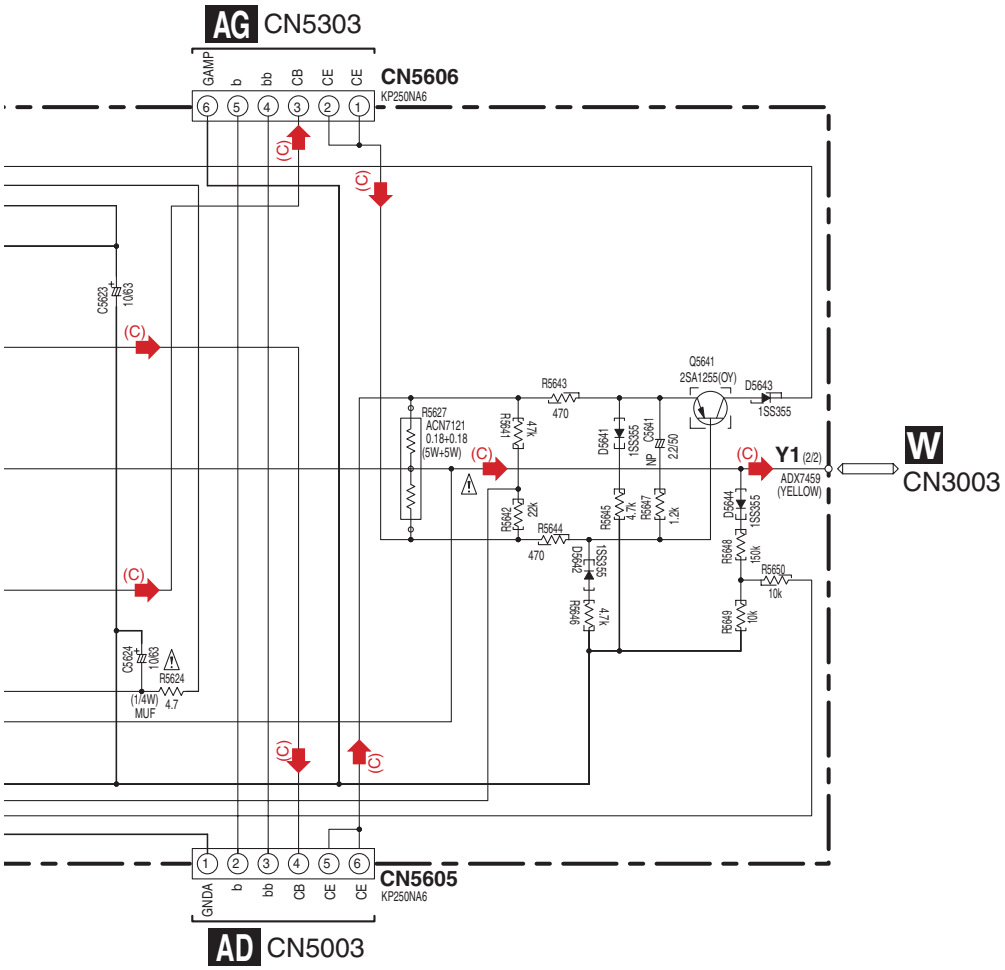
(C) : Audio Signal Route (Center ch)



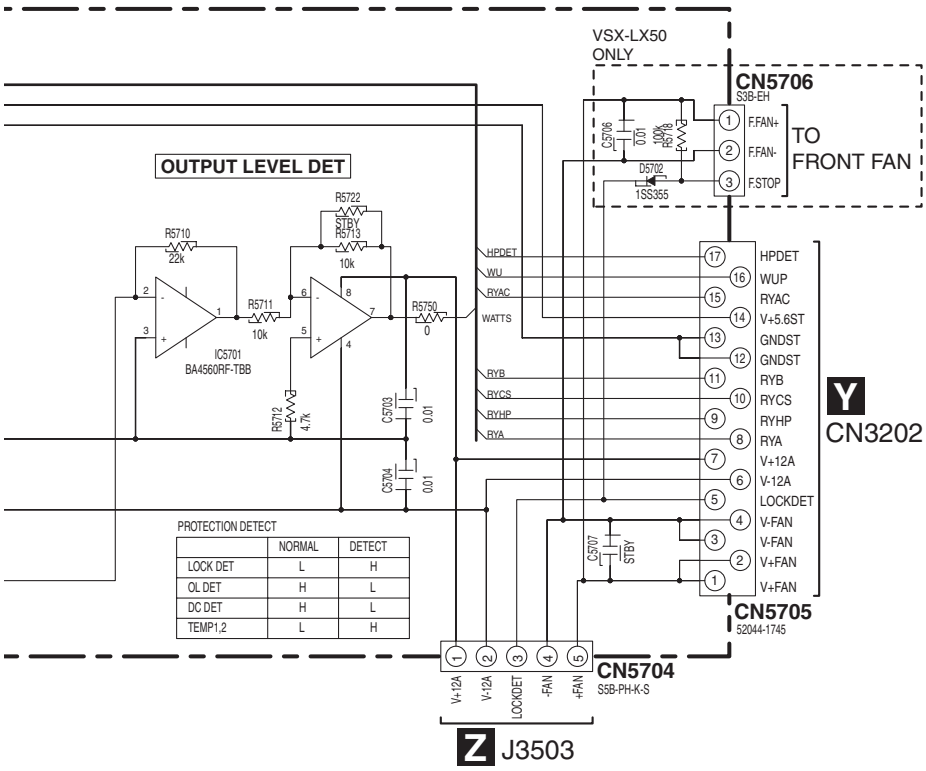
10.19 POWER AMP IN and POWER PROTECT ASSYS



(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)



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.



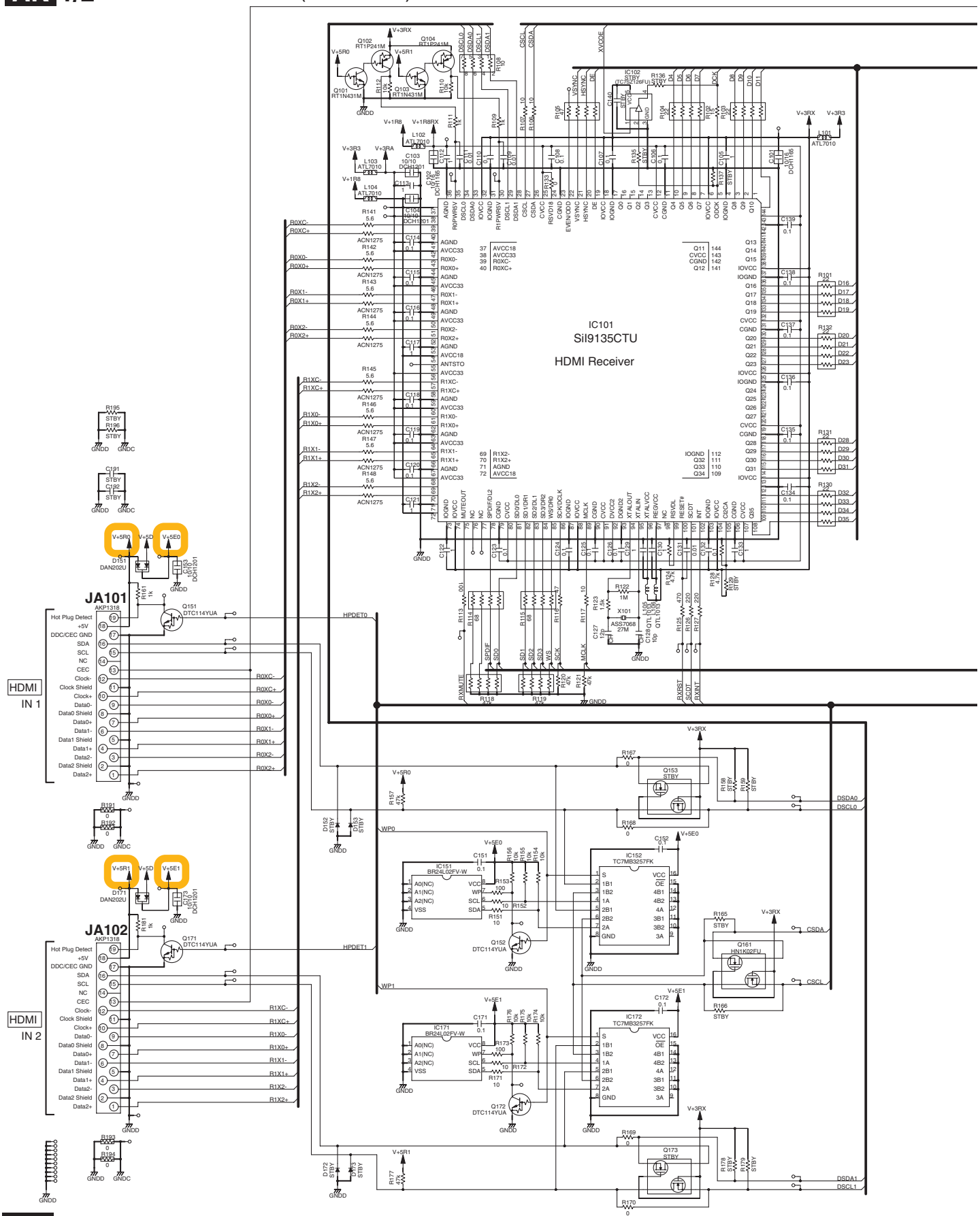
PROTECTION DETECT

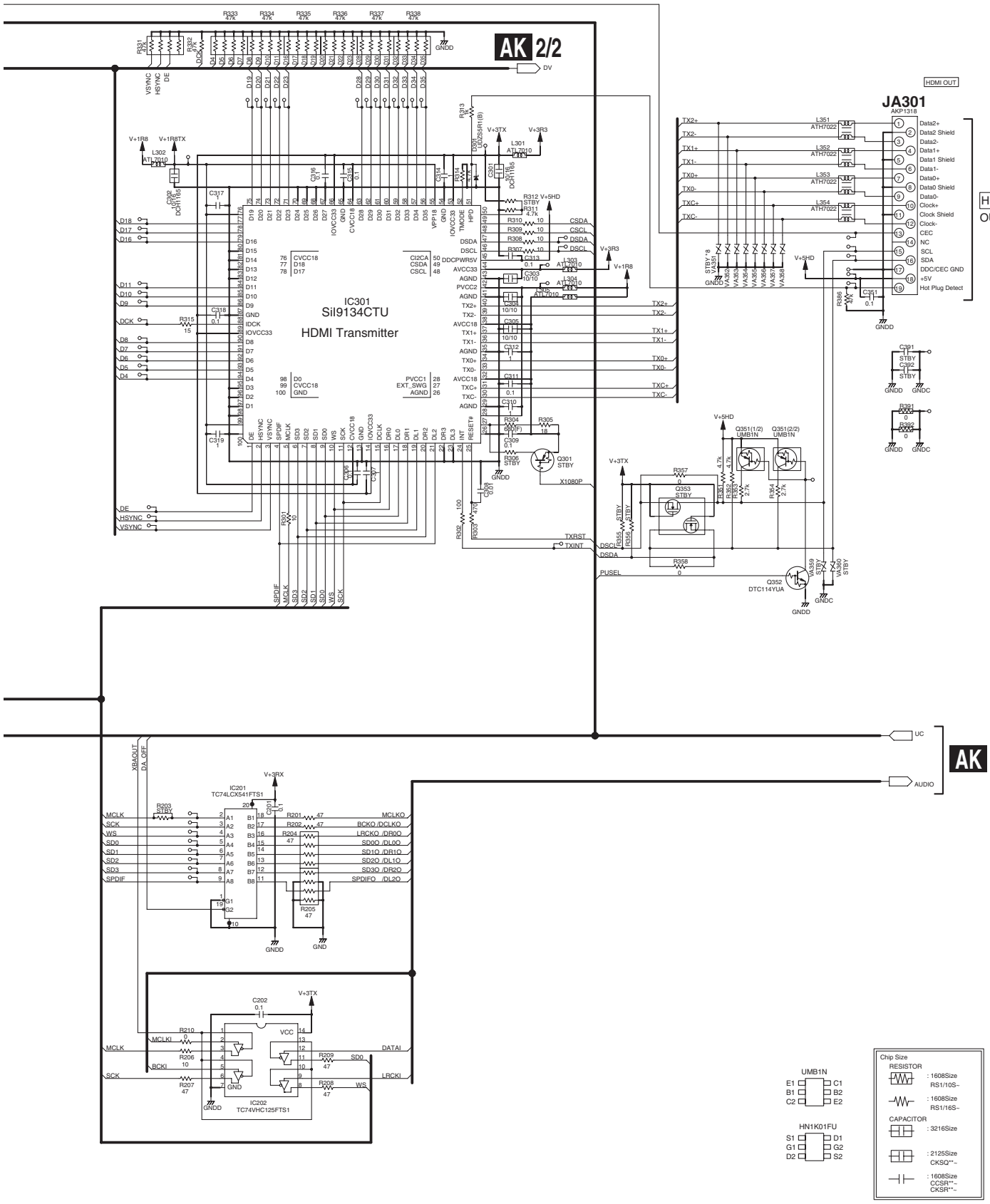
	NORMAL	DETECT
LOCK DET	L	H
OL DET	H	L
DC DET	H	L
TEMP1,2	L	H

AI AJ

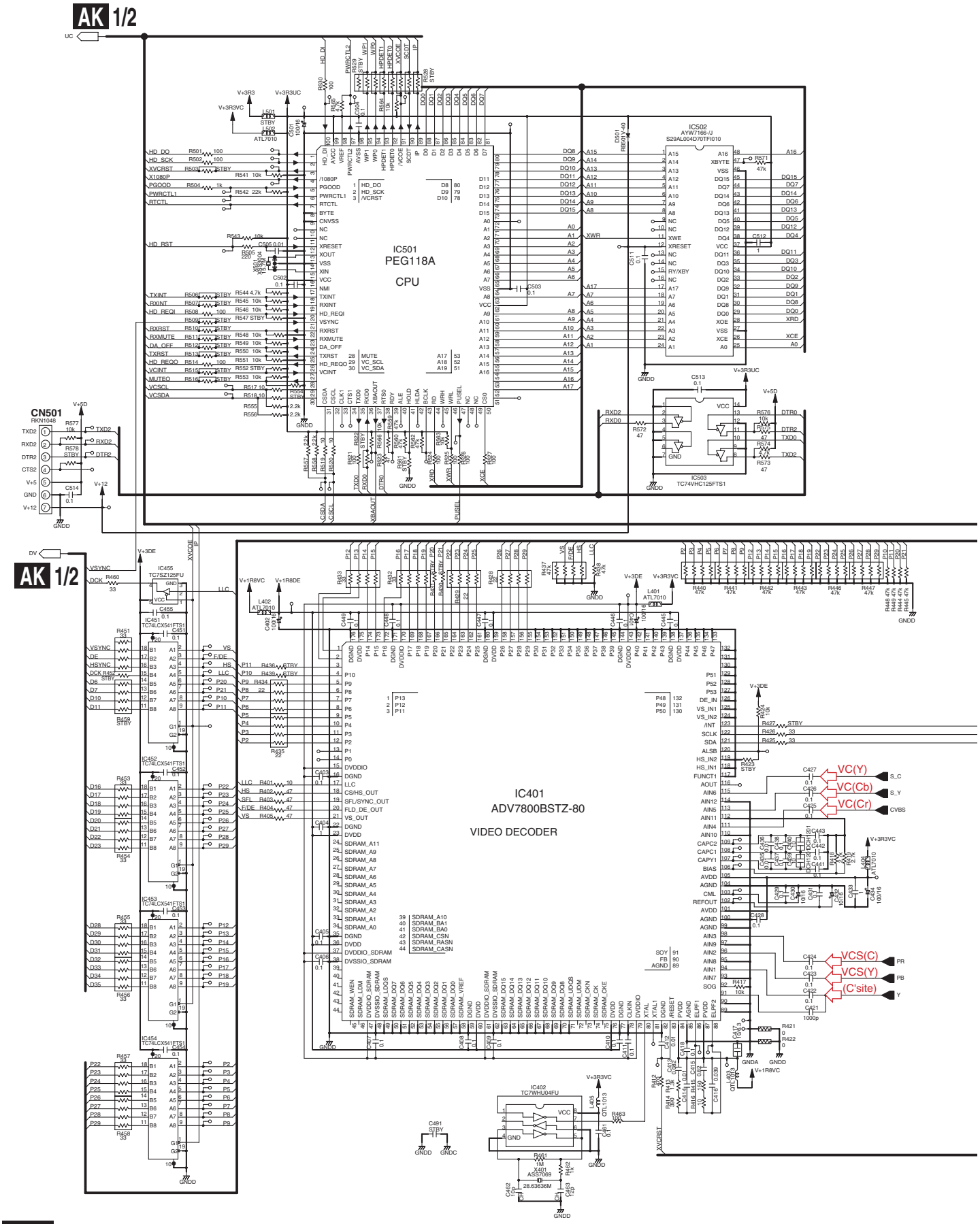
10.20 HDMI & DVC ASSY (1/2)

AK 1/2 HDMI & DVC ASSY (AWQ7040)

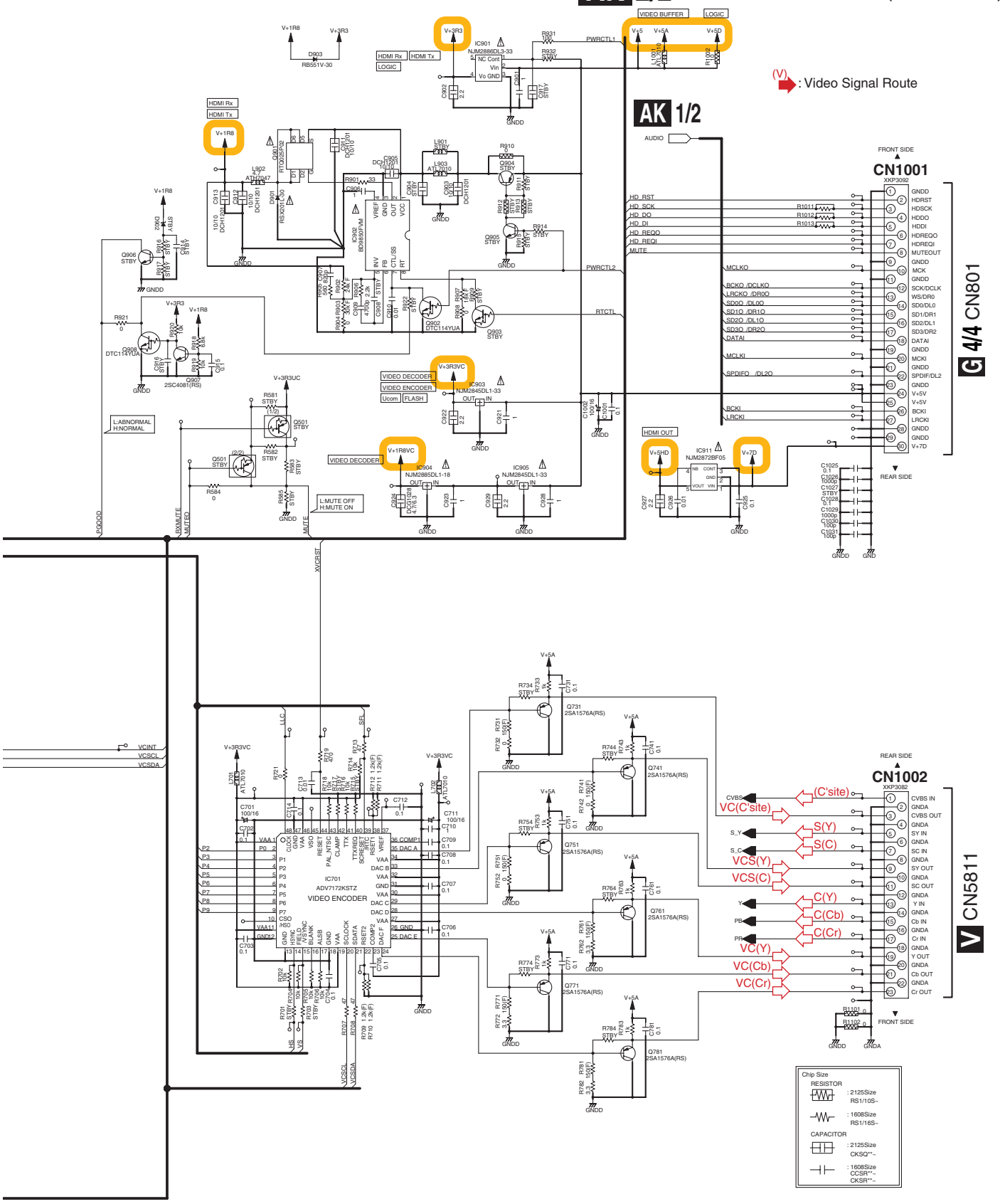



AK 2/2
DV
IC301
Sil9134CTU
HDMI Transmitter
JA301
AKP1318
HDMI OUT
HDMI
OUT
Data2+
Data2 Shield
Data2-
Data1+
Data1 Shield
Data1-
Data0+
Data0 Shield
Data0-
Clock+
Clock Shield
Clock-
CEC
NC
SCL
SDA
DDC/CEC GND
+5V
Hot Plug Detect
IC201
TC74LCX541FTS1
IC202
TC74VHC125FTS1
UMB1N
HN1K01FU
Chip Size
RESISTOR
: 1608Size RS1/10S~
: 1608Size RS1/16S~
CAPACITOR
: 3216Size
: 2125Size CKSQ**~
: 1608Size CCSR**~ CKSR**~
UC
AUDIO
AK 2/2

10.21 HDMI & DVC ASSY (2/2)

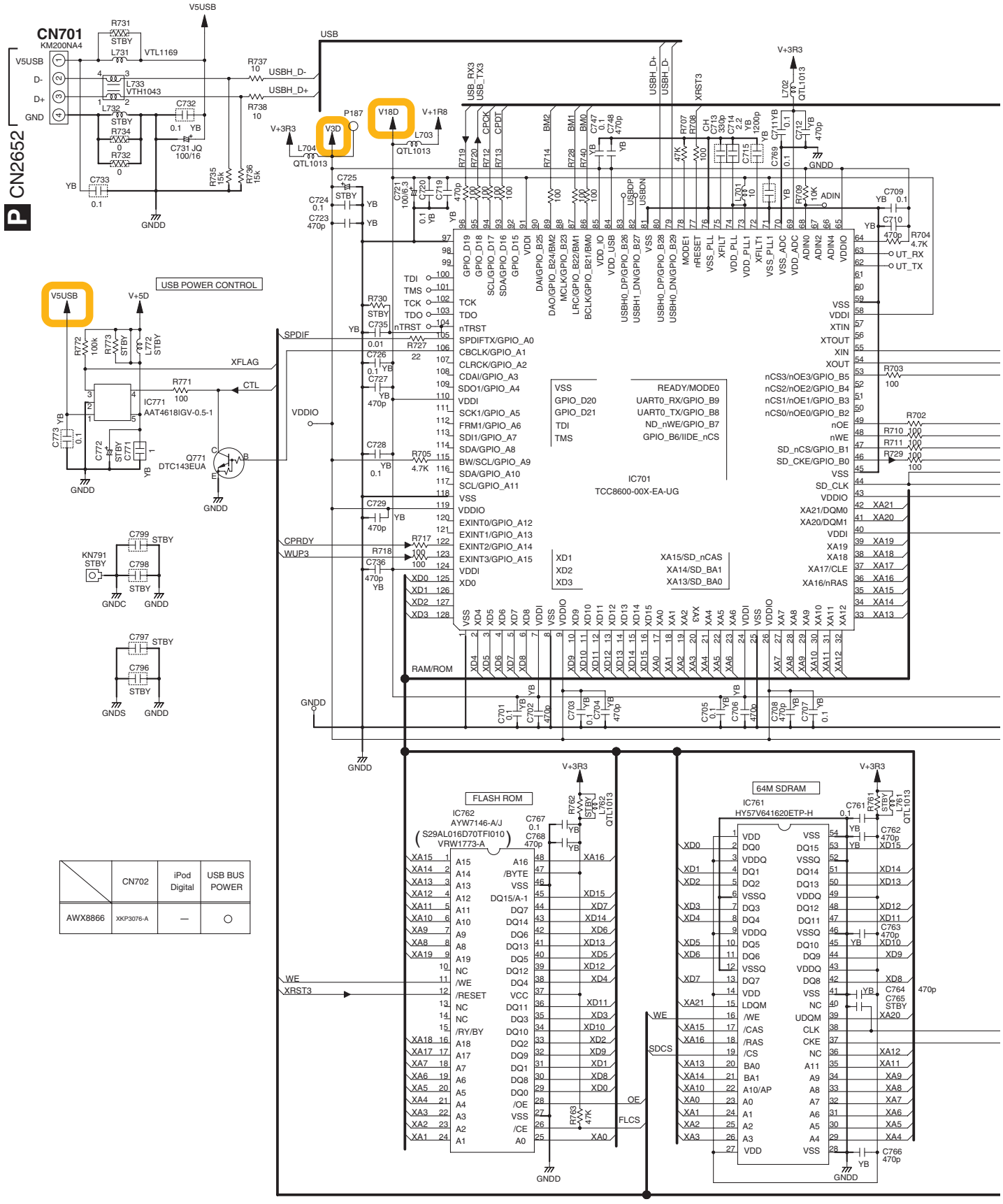


AK 2/2 HDMI & DVC ASSY (AWQ7040)

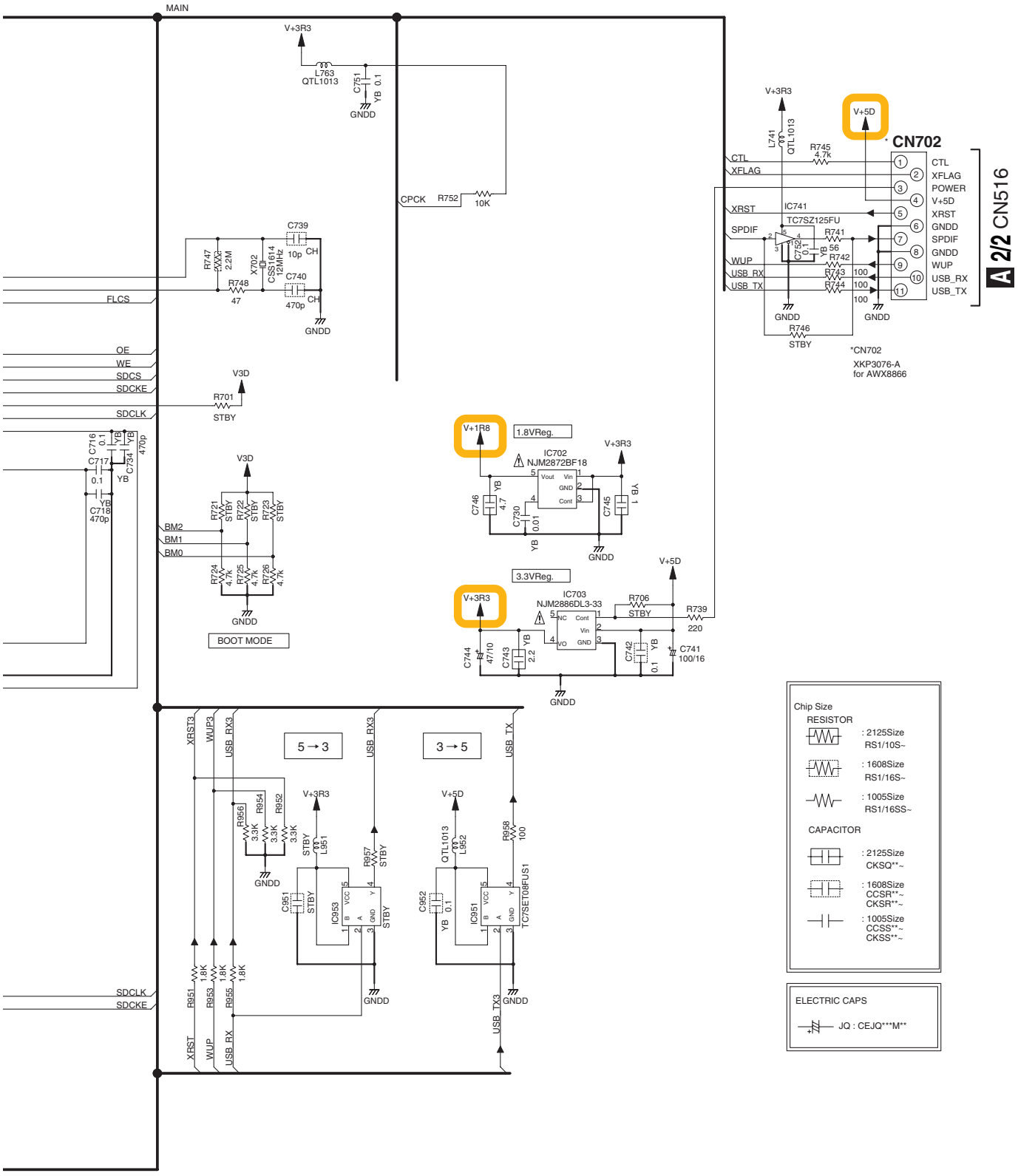


10.22 USB ASSY (VSX-LX50 ONLY)

AL USB ASSY (AWX8866)



	CN702	iPod Digital	USB BUS POWER
AWX8866	XKP3076-A	—	○


MAIN
V+3R3
L763 QTL1013
C751 YB 0.1
GNDD
CPCK R752 10K
C739 10p CH
R747 2.2M
X702 CSS1414 22MHz
C740 470p CH
R748 47
FLCS
OE
WE
SDCS
SDCKE
SDCLK
V3D
R701 STBY
C716 0.1 YB
C717 0.1 YB
C734 470p YB
C718 470p YB
R721 STBY
R722 STBY
R723 STBY
BM2
BM1
BM0
R724 4.7k
R725 4.7k
R726 4.7k
BOOT MODE
V+1R8
1.8VReg.
IC702 NJM2872BF18
C746 4.7 YB
C730 0.01 YB
C745 1 YB
V+3R3
3.3VReg.
IC703 NJM2886DL3-33
R706 STBY
R739 220
C744 47/10
C743 2.2 YB
C742 0.1 YB
C741 100/16
V+5D
V+3R3
L741 QTL1013
R745 4.7k
CN702
CTL
XFLAG
POWER
V+5D
XRST
GNDD
SPDIF
WUP
USB_RX
USB_TX
IC741 TC7SZ125FU
C759 0.1 YB
R741 56
R742 100
R743 100
R744 100
R746 STBY
*CN702
XKP3076-A
for AWX8866
A 2/2 CN516
XRST3
WUP3
USB_RX3
5→3
3→5
USB_TX
R956 3.3K
R954 3.3K
R952 3.3K
L951 STBY
R957 STBY
C951 STBY
IC953
C952 0.1 YB
L952 QTL1013
R958 100
IC951 TC7SET08FUS1
R951 1.8K
R953 1.8K
R955 1.8K
USB_TX3
Chip Size
RESISTOR
: 2125Size RS1/10S~
: 1608Size RS1/16S~
: 1005Size RS1/16SS~
CAPACITOR
: 2125Size CKSQ**~
: 1608Size CCSR**~ CKSR**~
: 1005Size CCSS**~ CKSS**~
ELECTRIC CAPS
JQ : CEJQ***M**

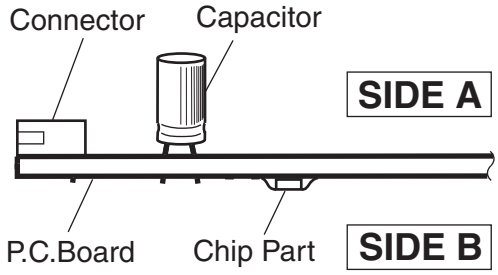
11. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

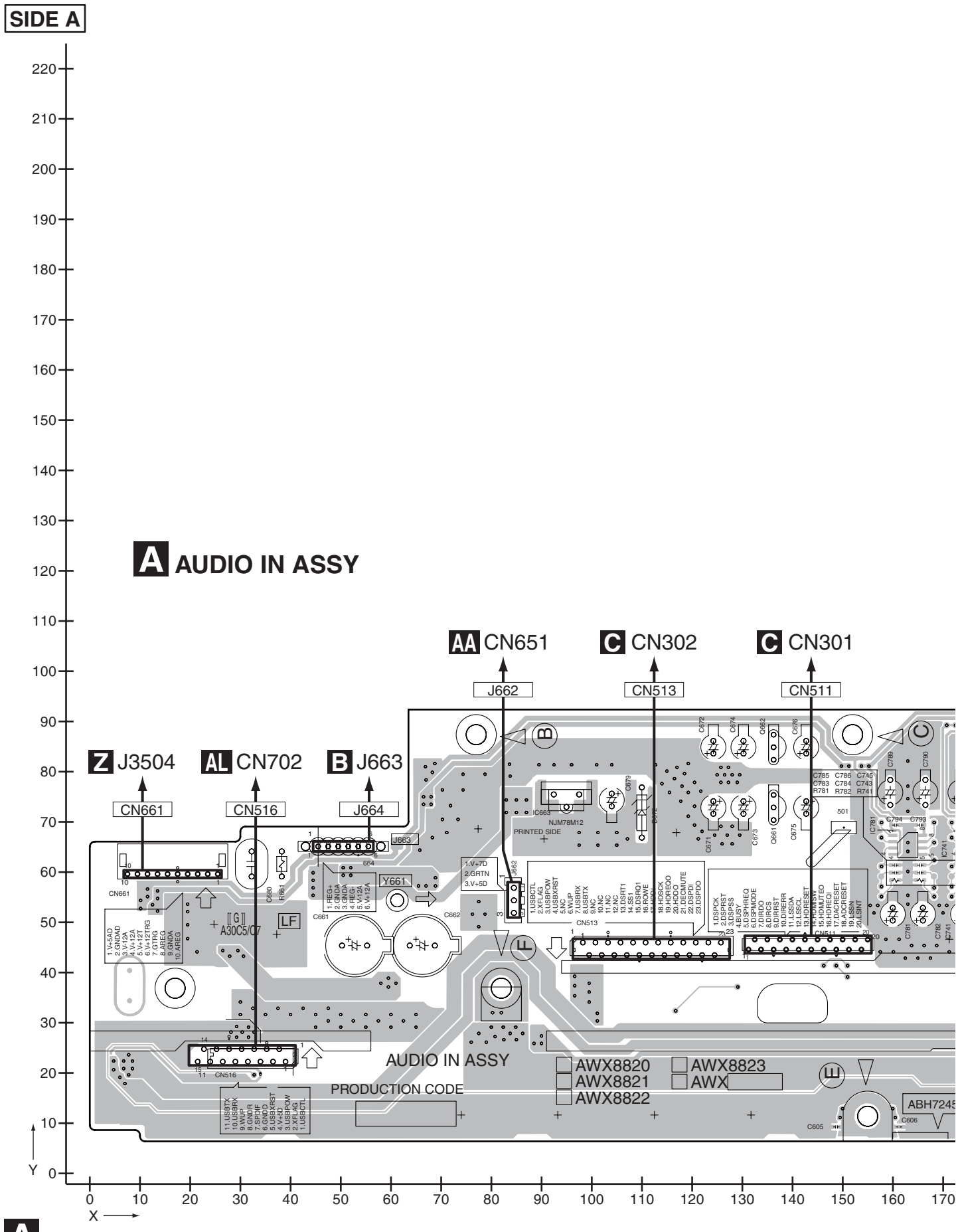
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

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

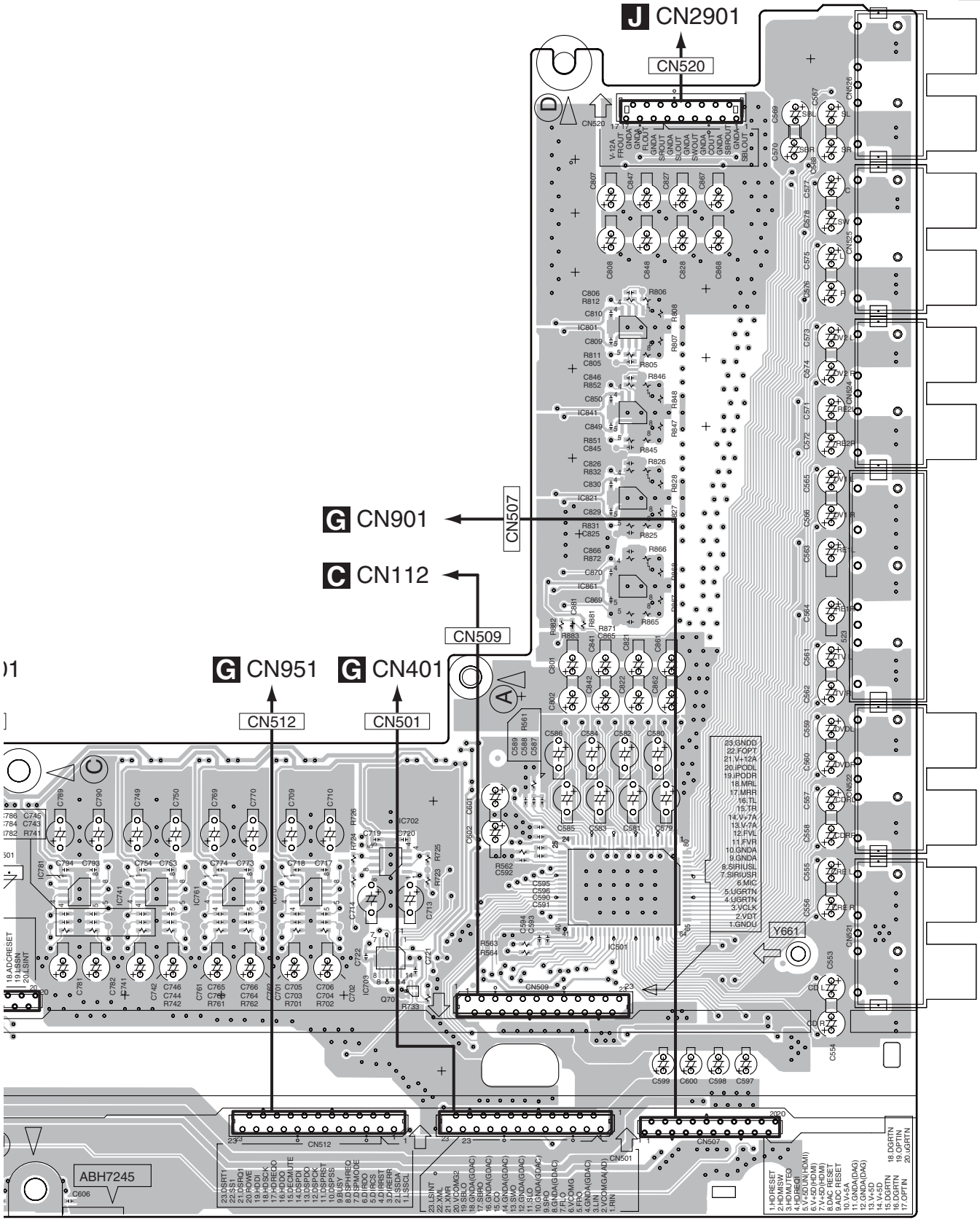
3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



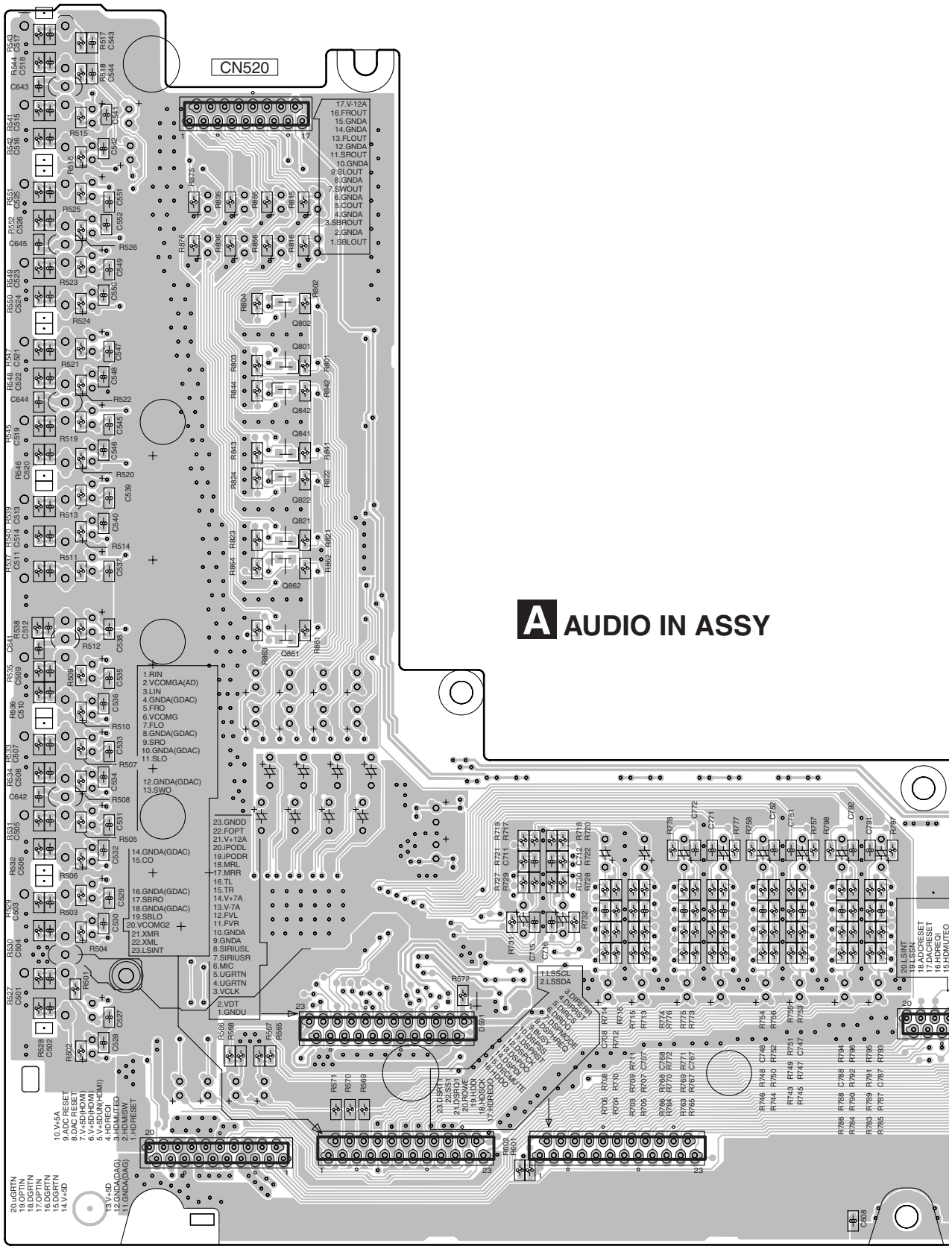
11.1 AUDIO IN ASSY



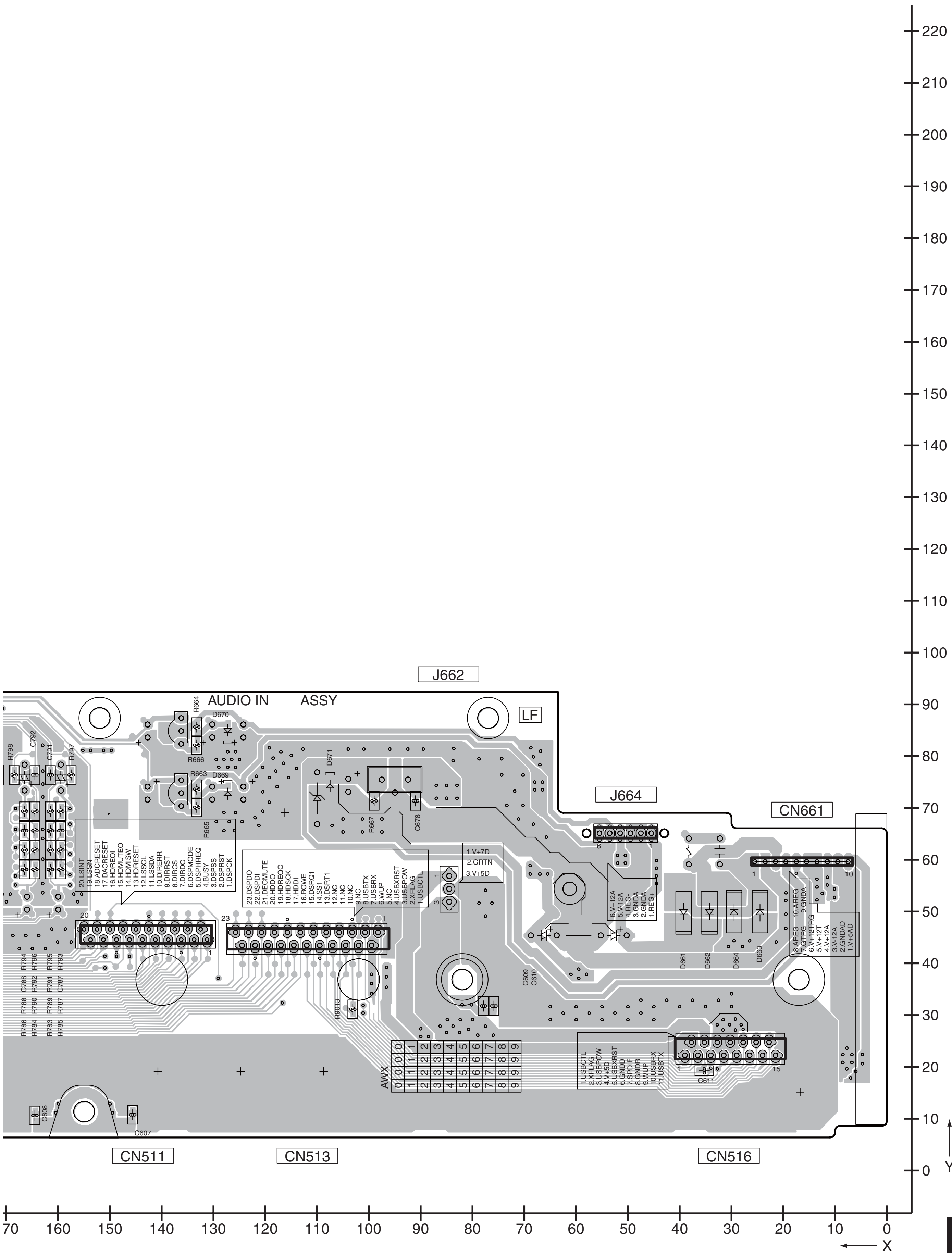
SIDE A


J CN2901
CN520
G CN901
CN507
C CN112
CN509
G CN951
G CN401
CN512
CN501
ABH7245
Y661
(ANP7596-B)

SIDE B


CN520
17.V-12A
16.FROUT
15.GNDA
14.GNDA
13.FLOUT
12.GNDA
11.SROUT
10.GNDA
9.SLOUT
8.GNDA
7.SWOUT
6.GNDA
5.COUT
4.GNDA
3.SBROUT
2.GNDA
1.SBLOUT
A AUDIO IN ASSY
(ANP7596-B)
CN507
CN509
CN501
CN512

SIDE B

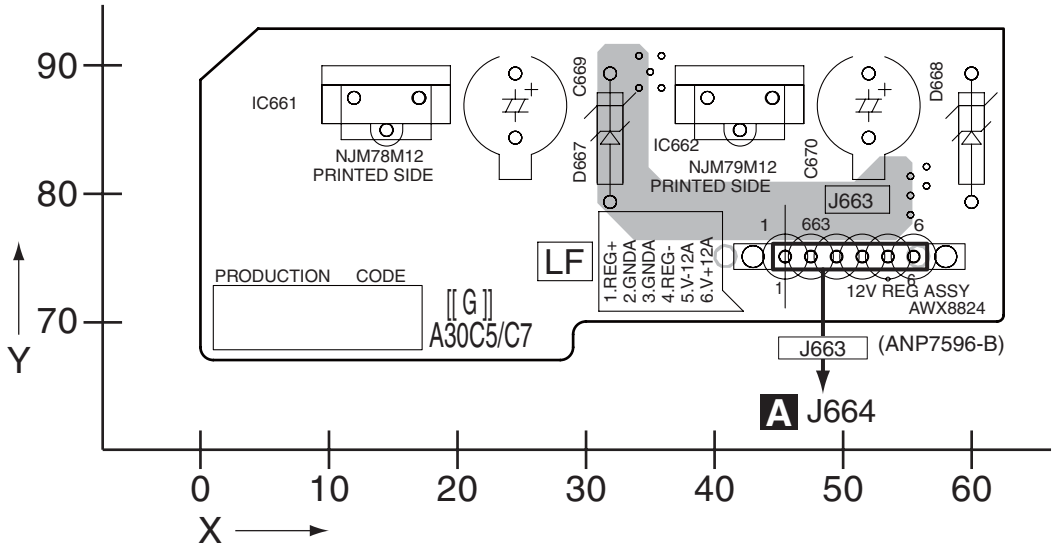

J662
AUDIO IN ASSY
LF
J664
CN661
CN511
CN513
CN516
AWX
1.V+7D
2.GRTN
3.V+5D
1.USBCTL
2.XFLAG
3.USBPOW
4.V+5D
5.USBXRST
6.GNDD
7.SPDIF
8.GNDR
9.WUP
10.USBRX
11.USBTX
6.V+12A
5.V-12A
4.REG-
3.GNDA
2.GNDA
1.REG+
8.AREG
7.GTRG
6.V+12TRG
5.V+12T
4.V-12A
3.V+12A
2.GNDAD
1.V+5AD
10.AREG
9.GNDA
X
Y

11.2 12V-REG ASSY

SIDE A

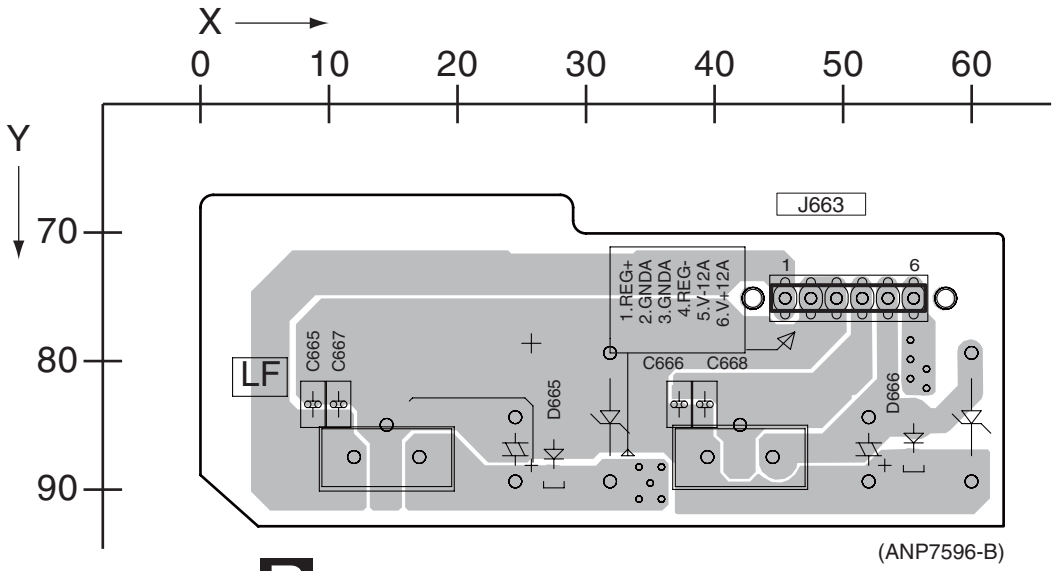
SIDE A

B 12V-REG ASSY



SIDE B

SIDE B



B 12V-REG ASSY

B

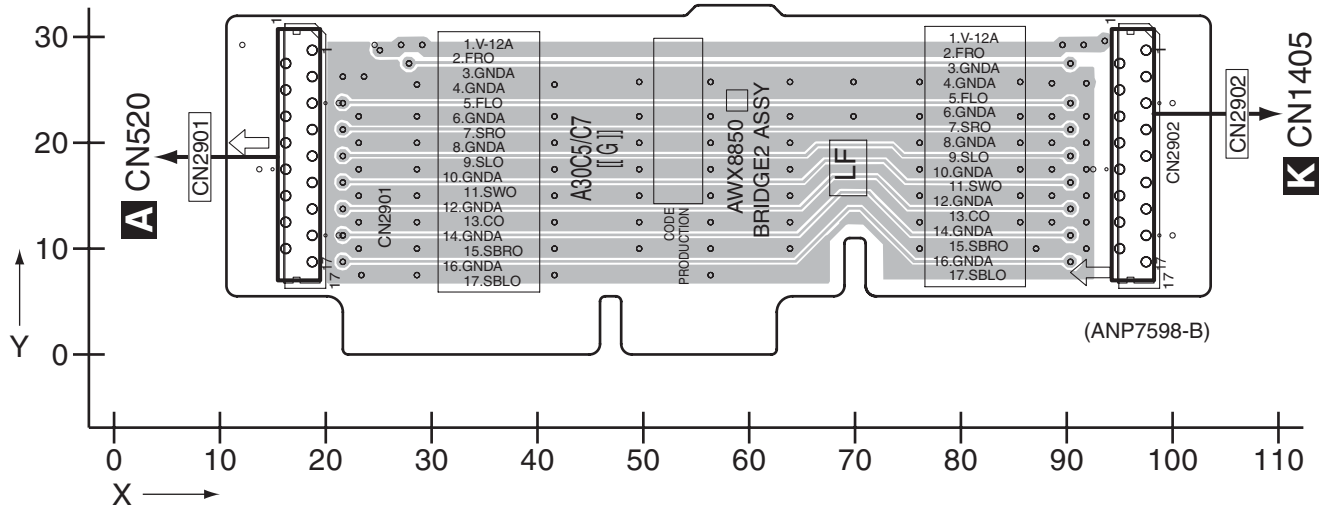
B

11.3 BRIDGE 2 ASSY

SIDE A

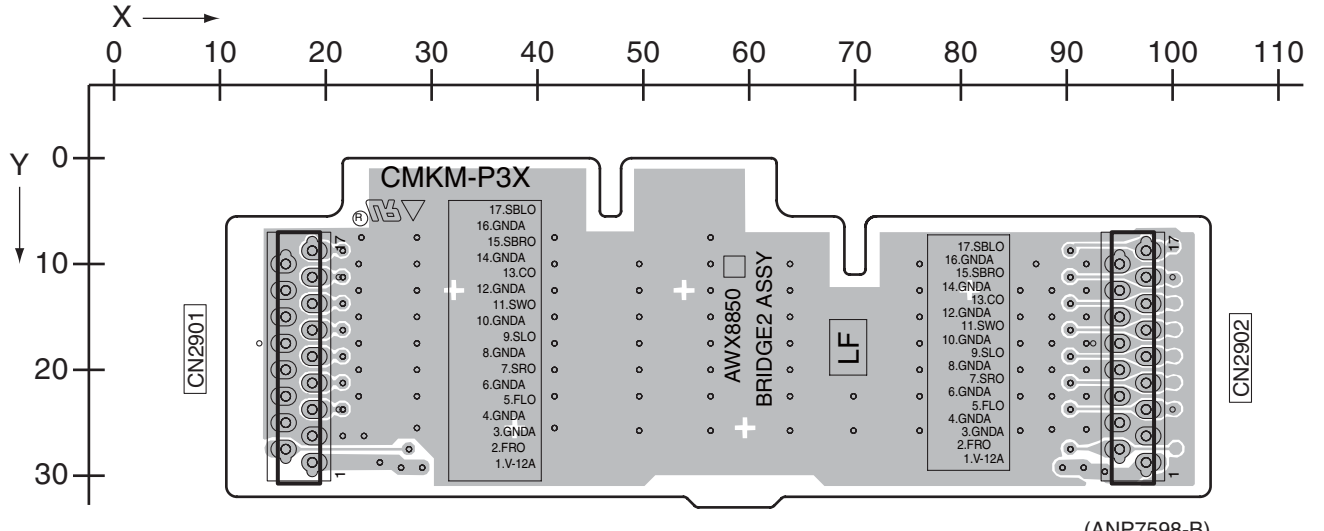
SIDE A

J BRIDGE 2 ASSY



SIDE B

SIDE B



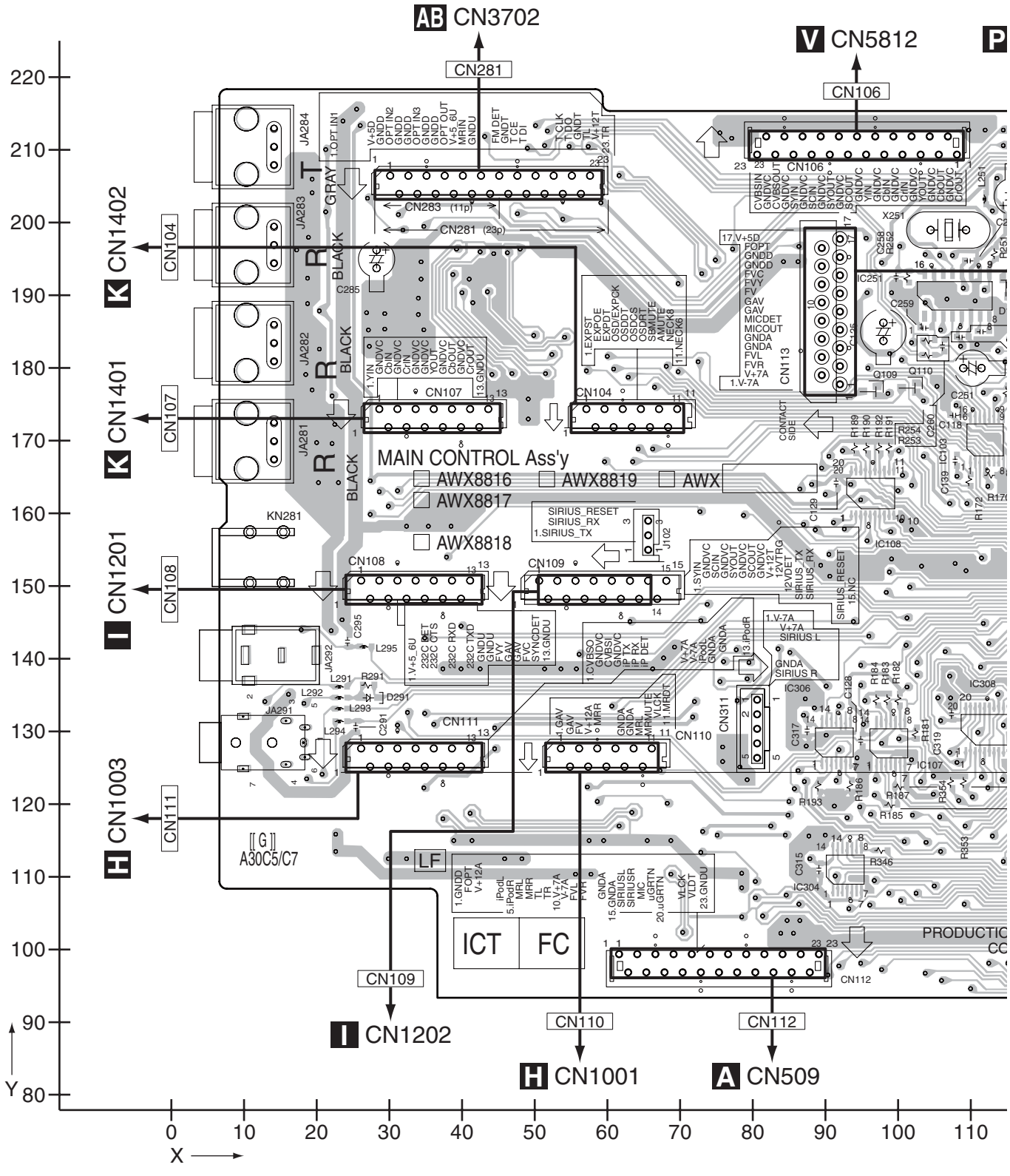
J BRIDGE 2 ASSY

J J

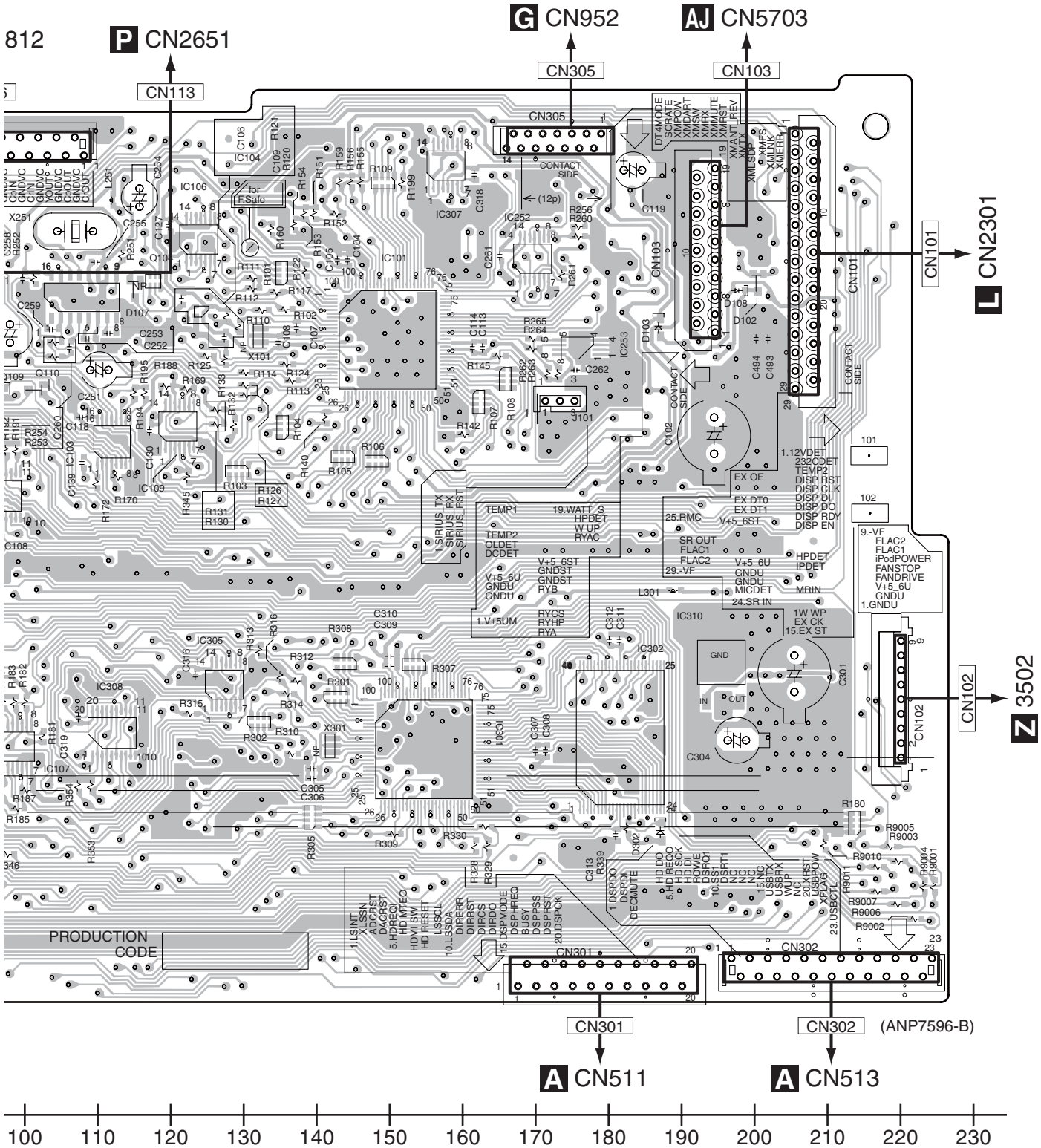
11.4 MAIN CONTROL ASSY

SIDE A

C MAIN CONTROL ASSY

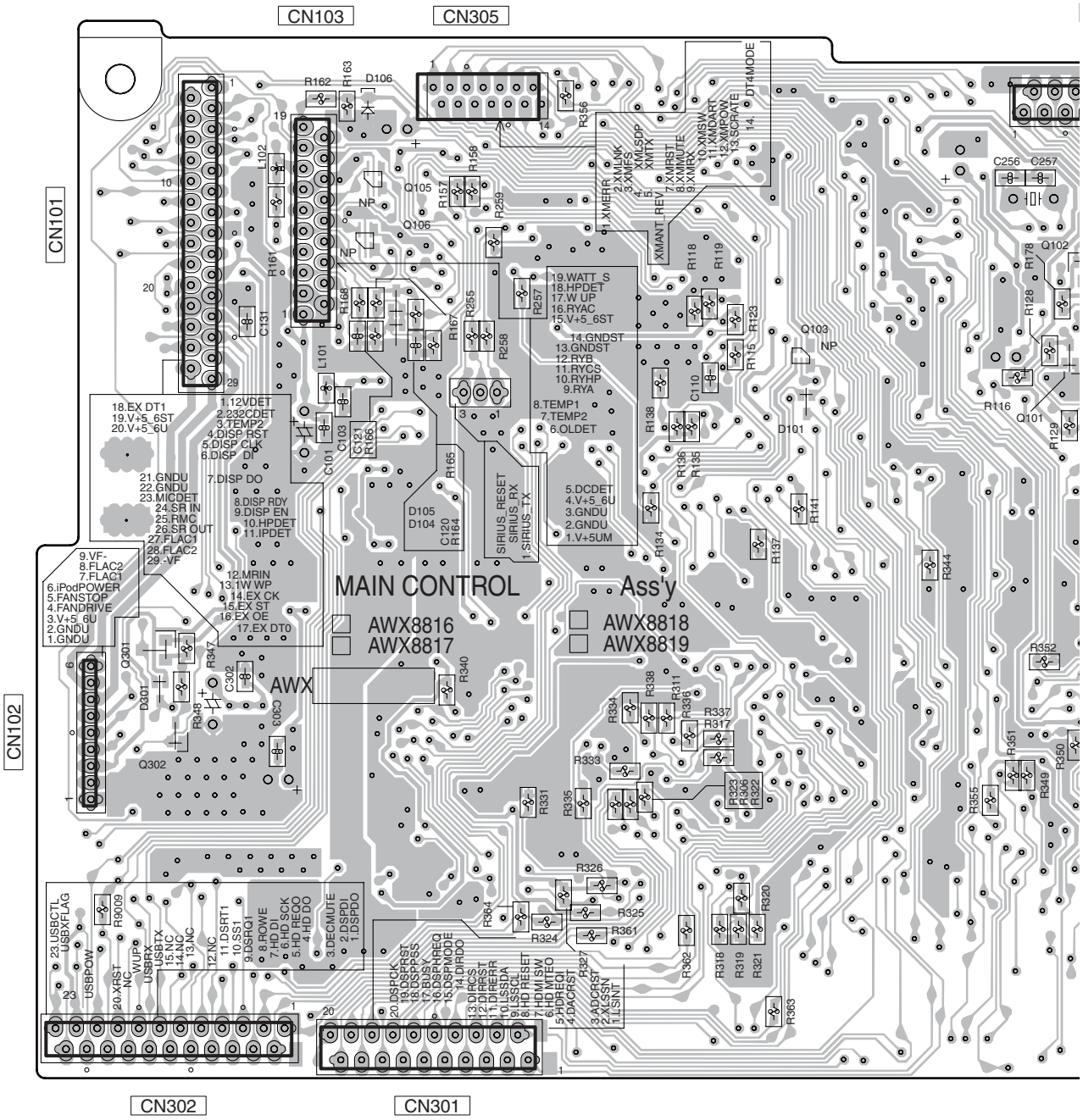


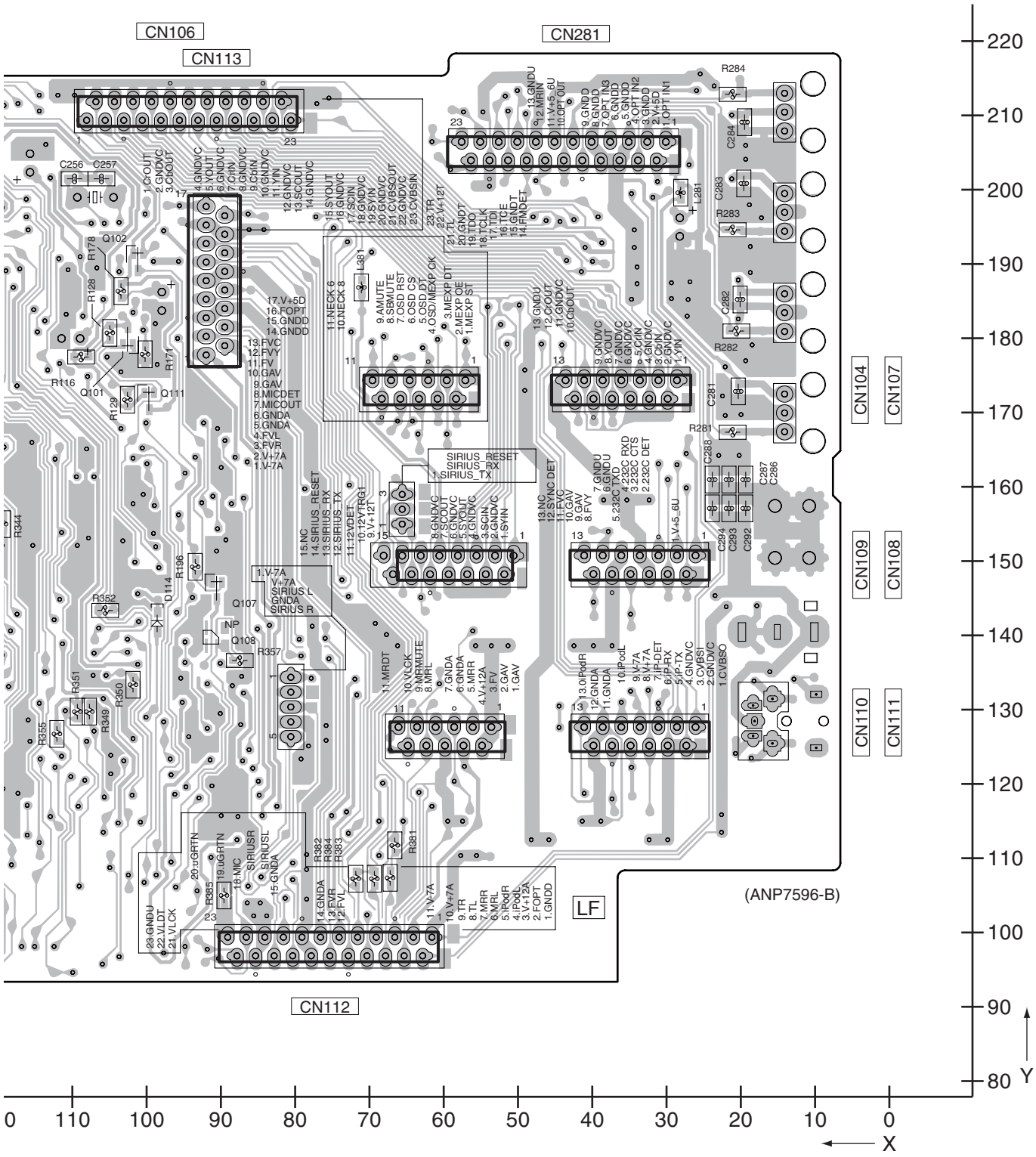
SIDE A


812
P CN2651
CN113
G CN952
CN305
AJ CN5703
CN103
CN101
L CN2301
CN102
Z 3502
CN301
CN302
A CN511
A CN513
(ANP7596-B)
PRODUCTION CODE
100 110 120 130 140 150 160 170 180 190 200 210 220 230

SIDE B

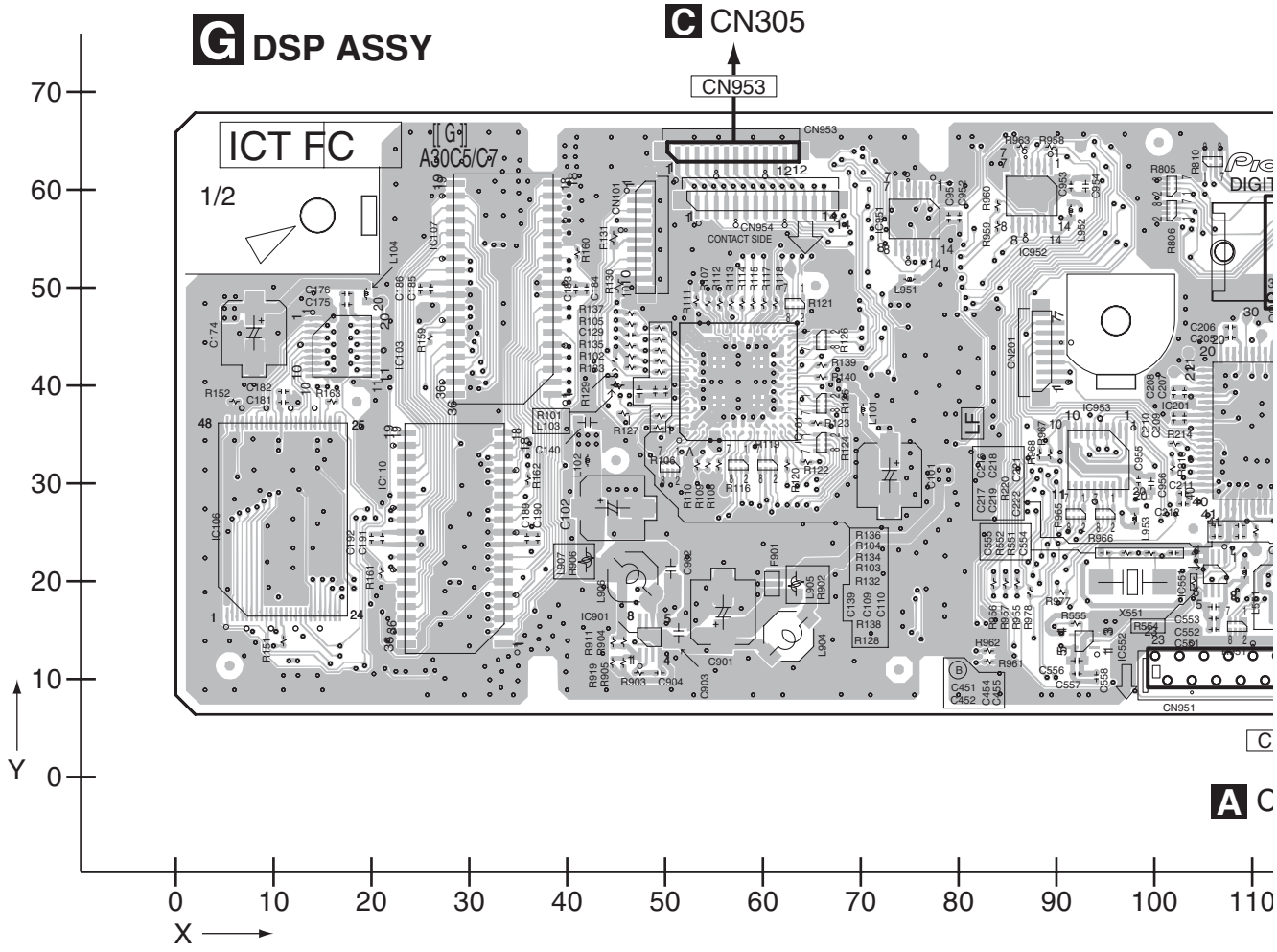
C MAIN CONTROL ASSY



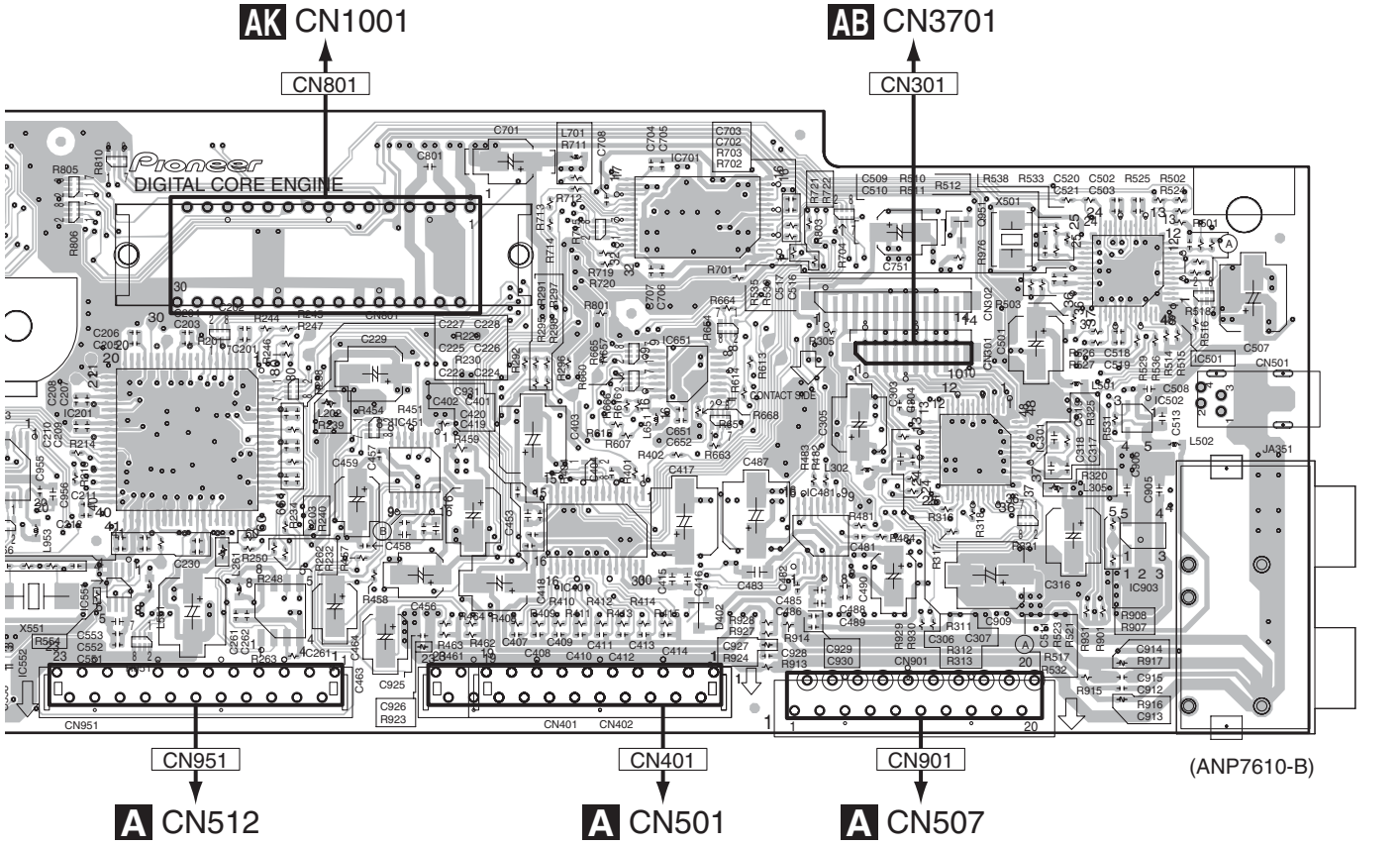

CN106
CN113
CN281
CN104
CN107
CN109
CN108
CN110
CN111
CN112
LF
(ANP7596-B)
X
Y

11.5 DSP ASSY

SIDE A

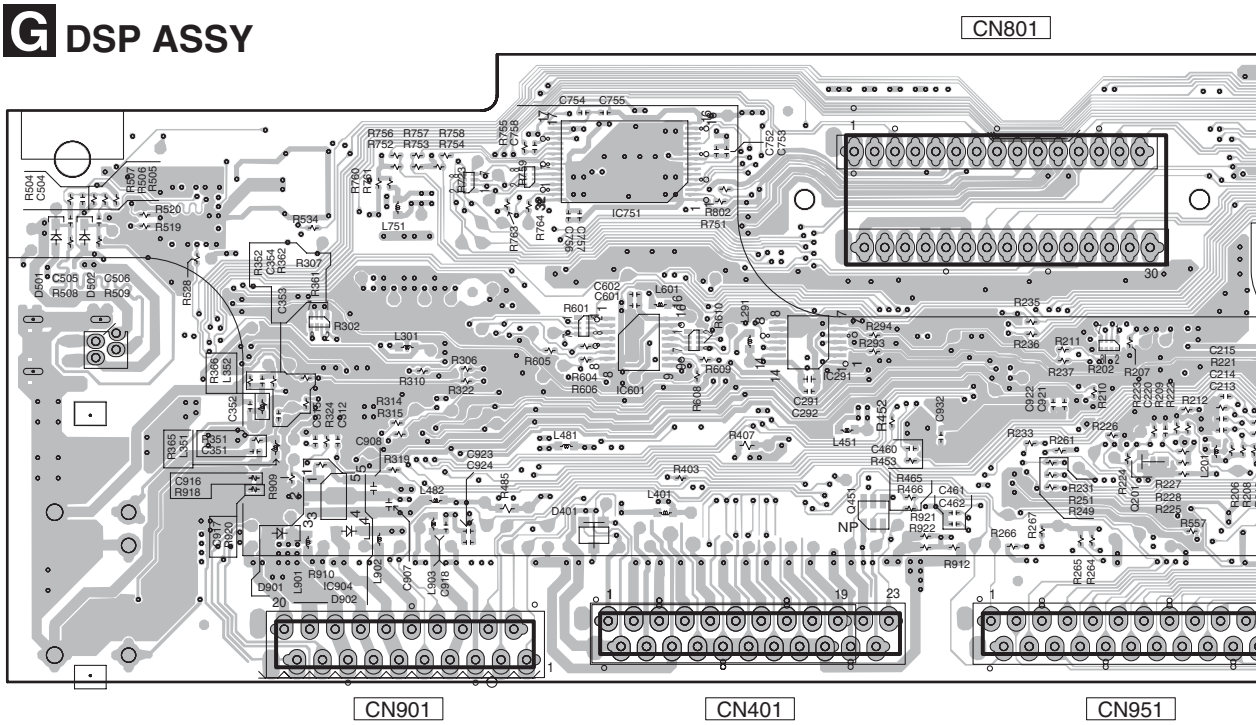


SIDE A

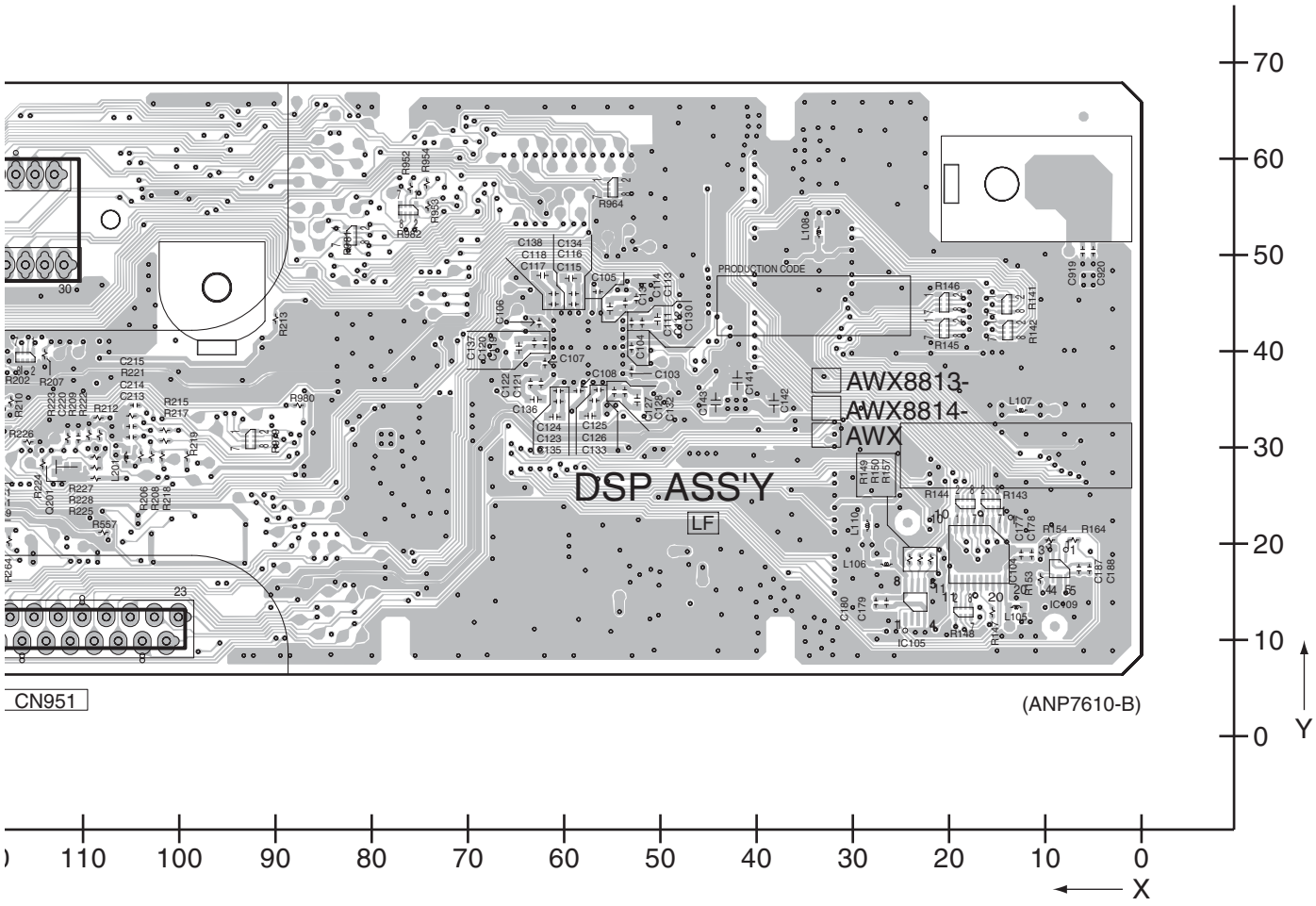

AK CN1001
CN801
AB CN3701
CN301
Pioneer
DIGITAL CORE ENGINE
CN951
CN401
CN402
CN901
(ANP7610-B)
A CN512
A CN501
A CN507
100 110 120 130 140 150 160 170 180 190 200 210 220 230

SIDE B

G DSP ASSY

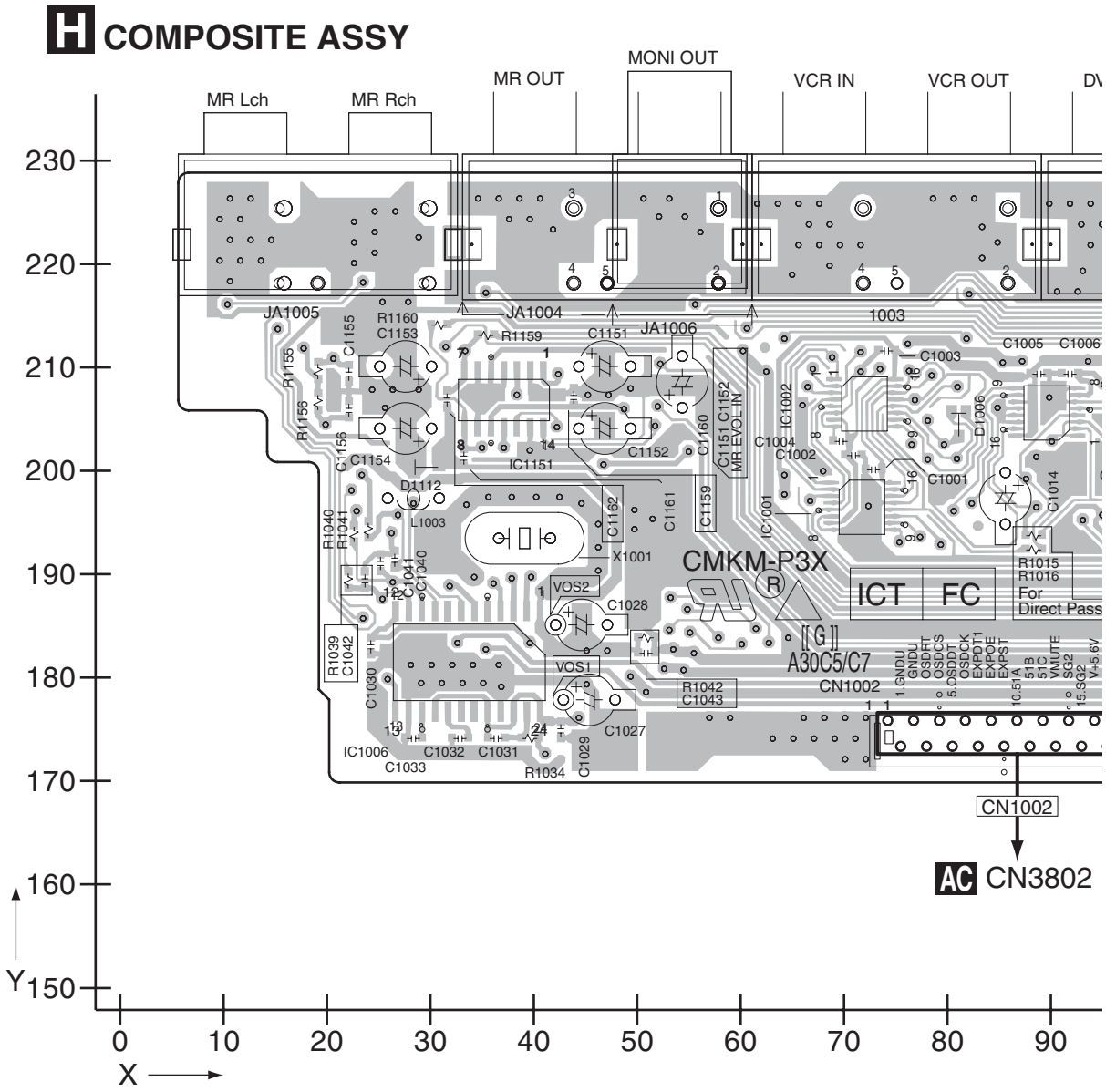


SIDE B

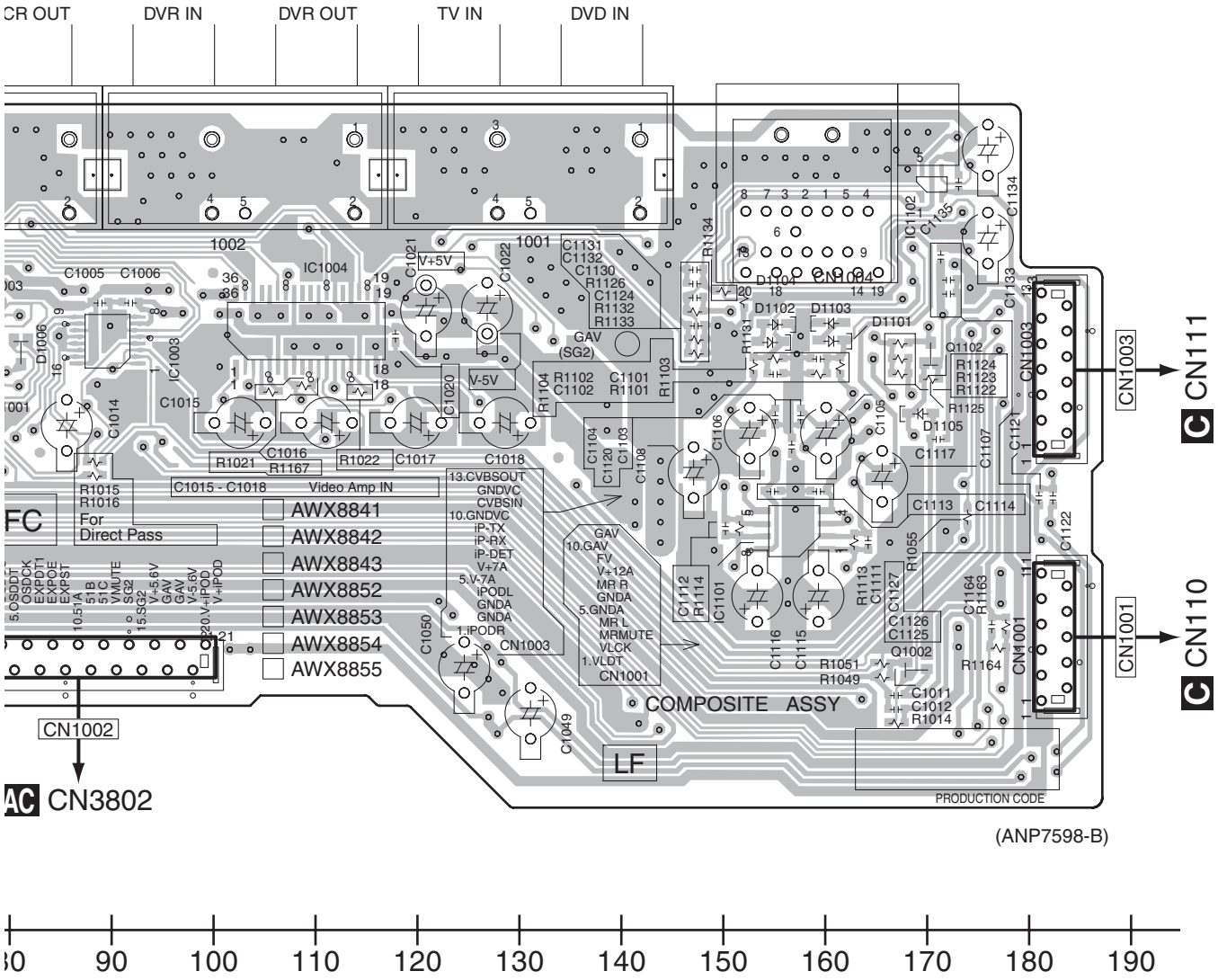

DSP ASS'Y
LF
AWX8813-
AWX8814-
AWX
PRODUCTION CODE
CN951
(ANP7610-B)
70
60
50
40
30
20
10
0
Y
110
100
90
80
70
60
50
40
30
20
10
0
X

11.6 COMPOSITE ASSY

SIDE A



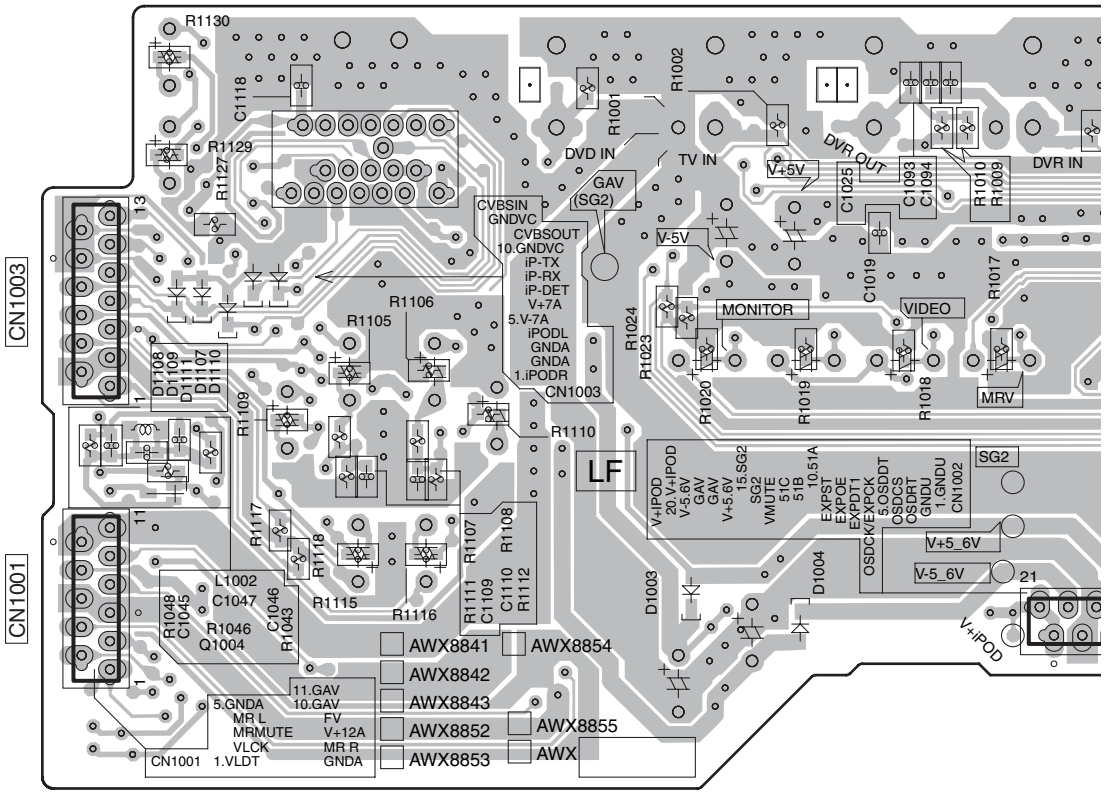
SIDE A



(ANP7598-B)

SIDE B

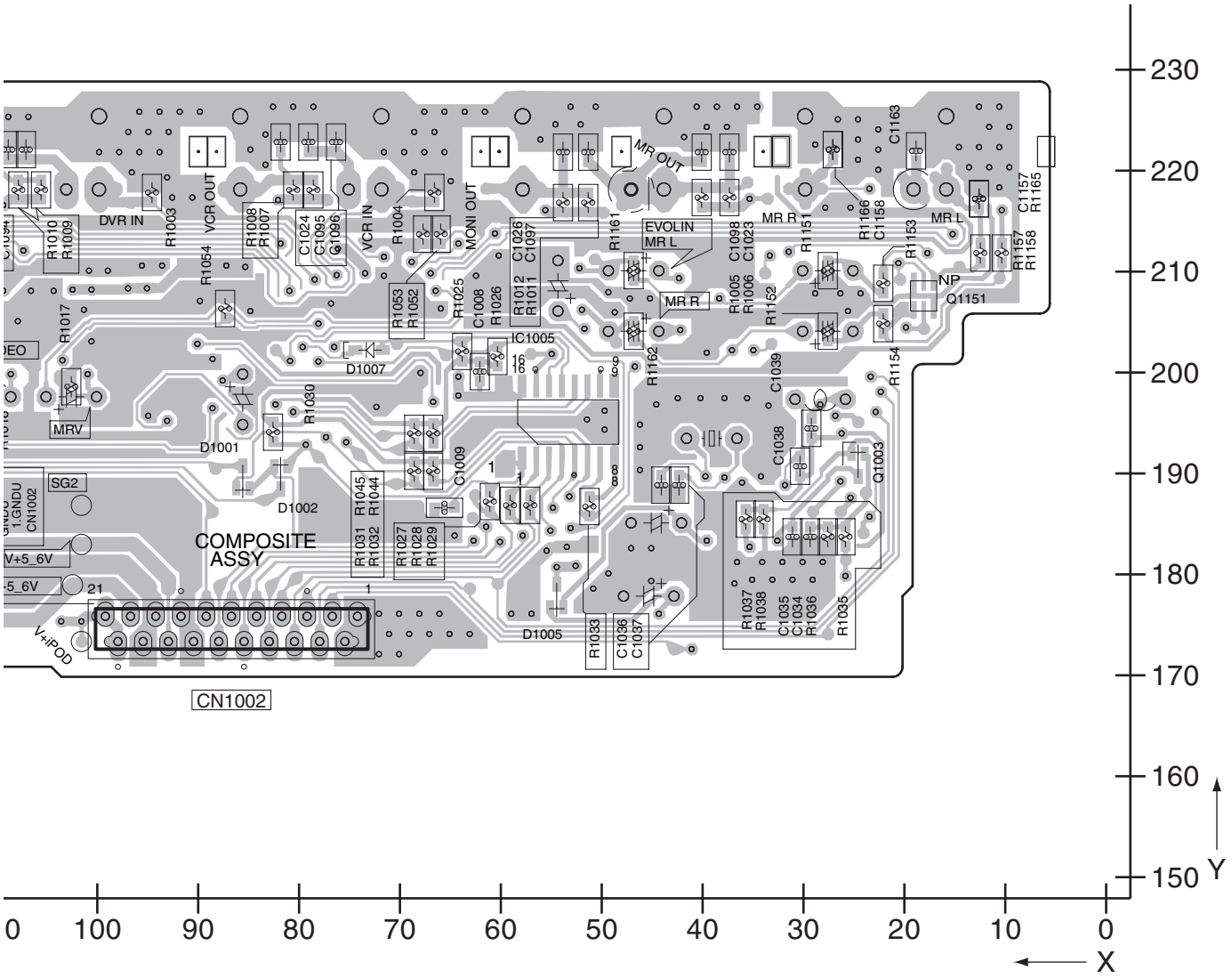
H COMPOSITE ASSY



(ANP7598-B)

190 180 170 160 150 140 130 120 110 100

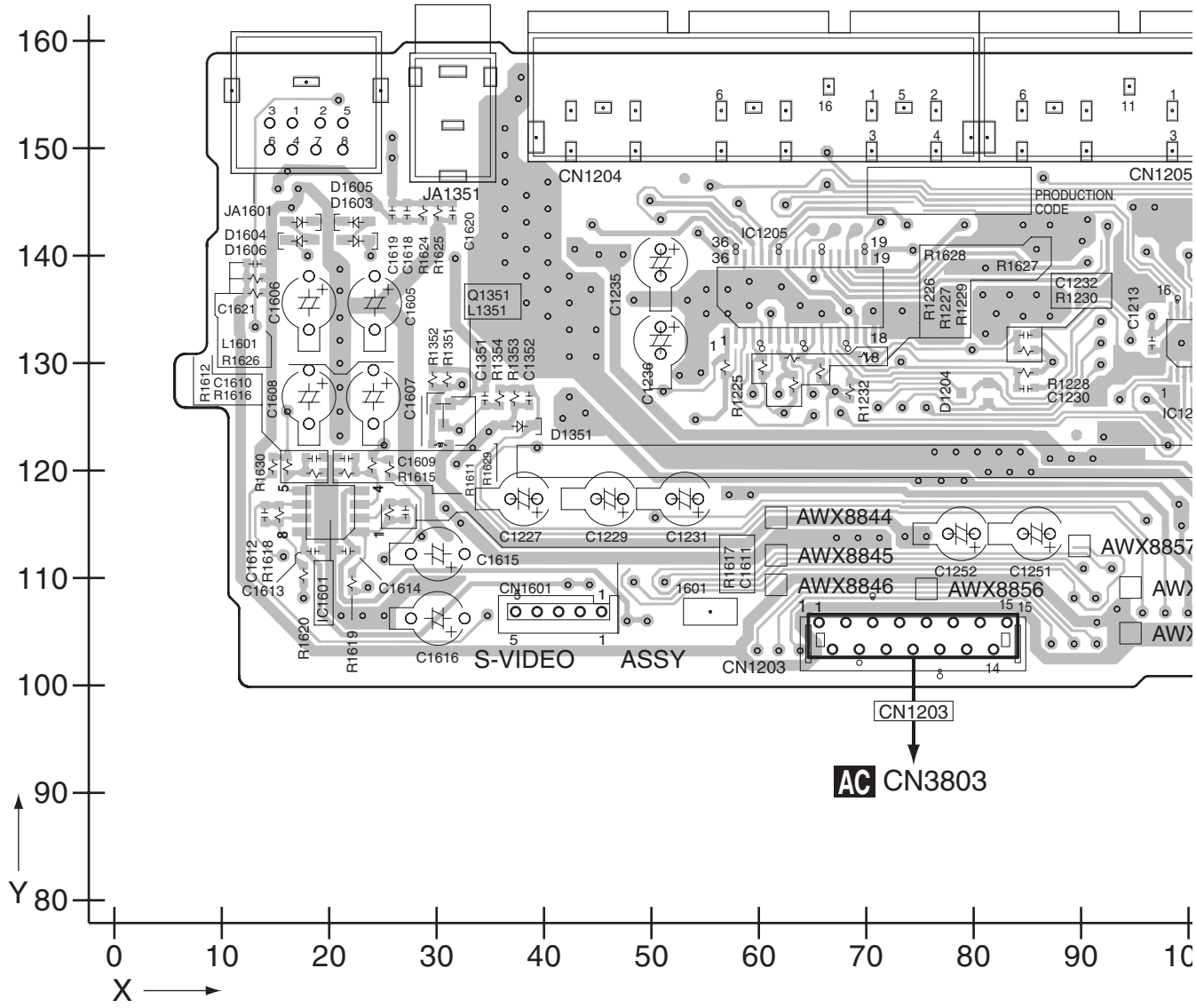
SIDE B

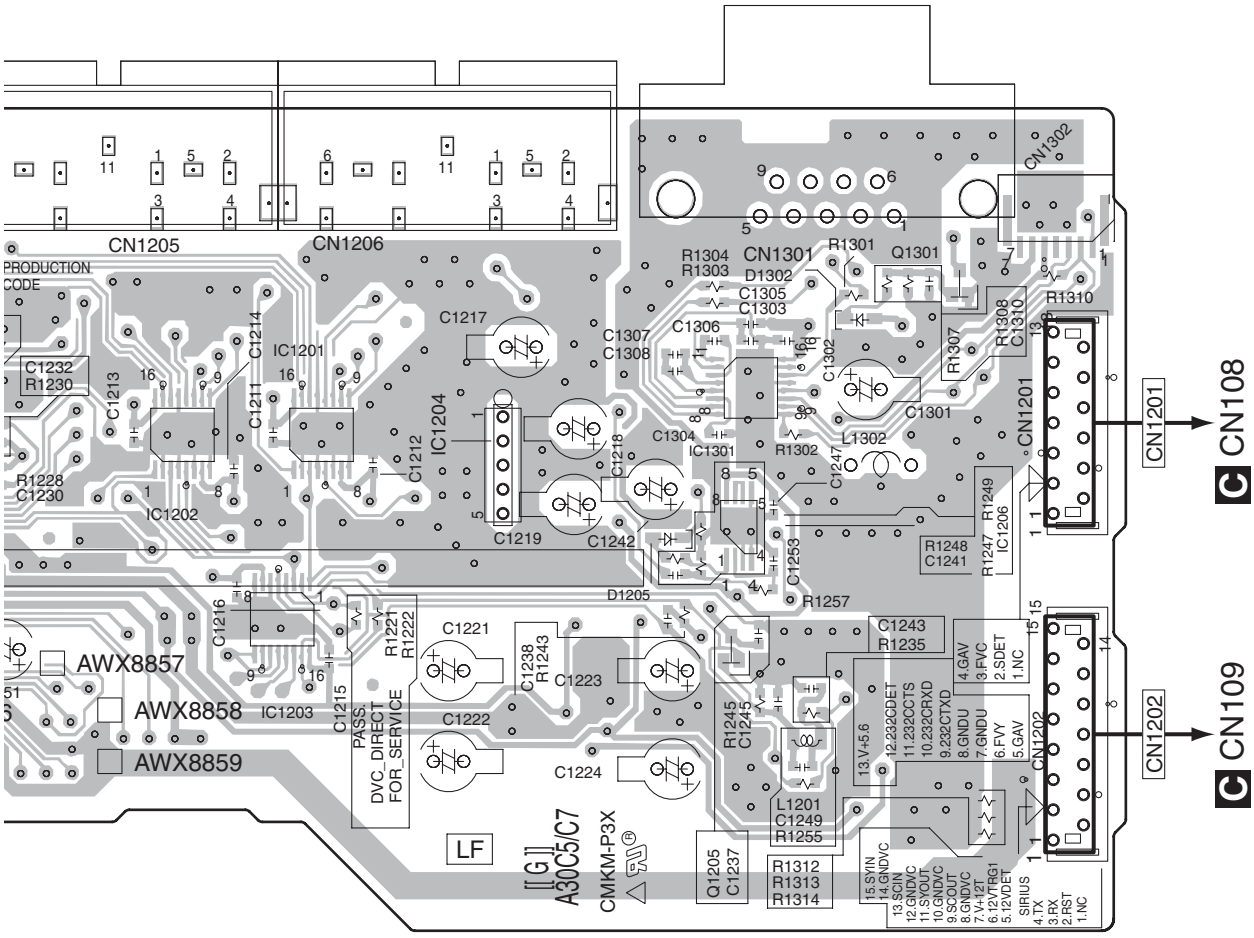

COMPOSITE ASSY
CN1002
DVR IN
VCR OUT
VCR IN
MONI OUT
MR OUT
EVOLIN
MR L
MR R
NP
Q1151
IC1005
D1001
D1002
D1005
D1007
MRV
SG2
V+IPOD
X
Y
0
100
90
80
70
60
50
40
30
20
10
0
230
220
210
200
190
180
170
160
150

11.7 S-VIDEO ASSY

SIDE A

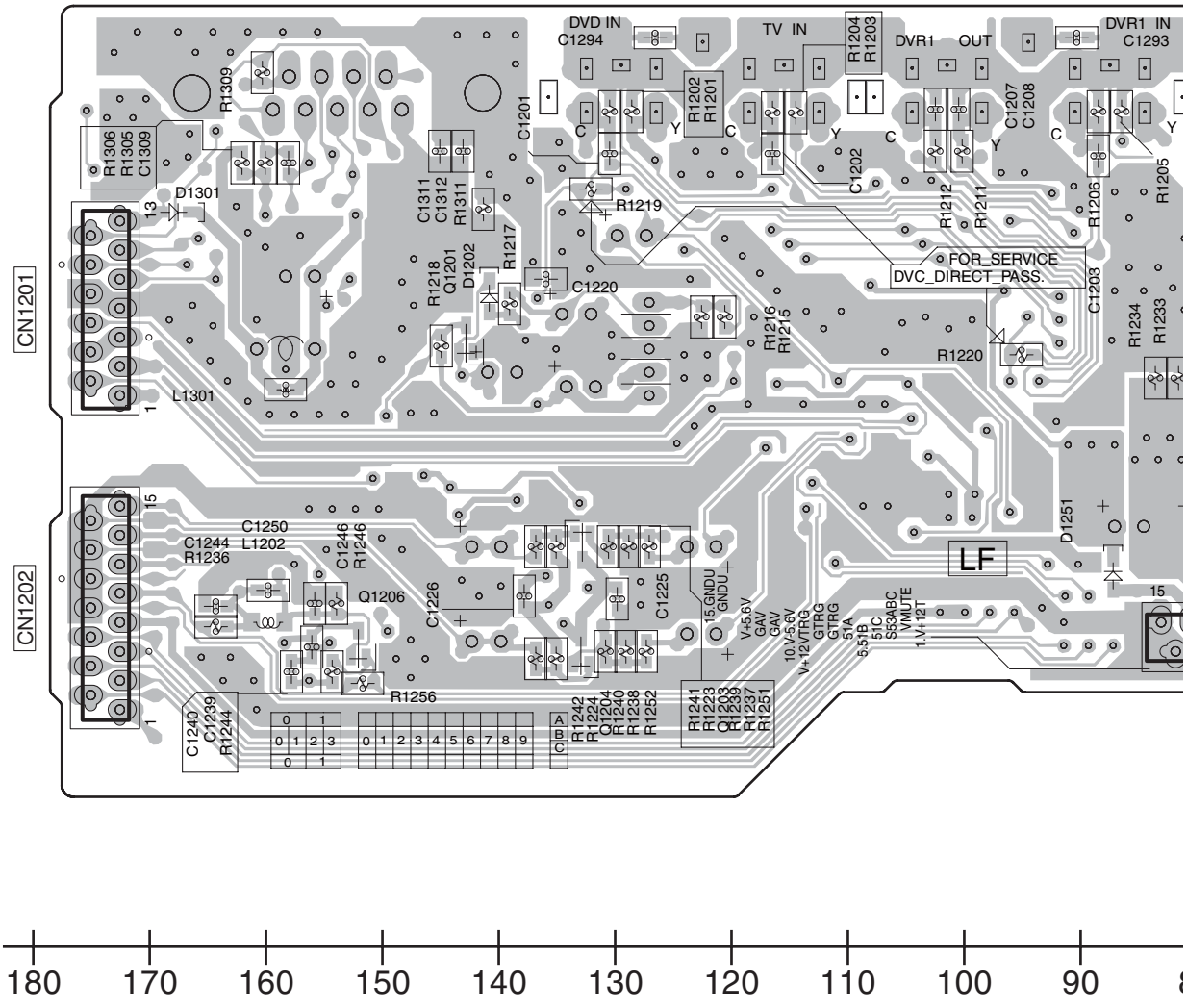
S-VIDEO ASSY



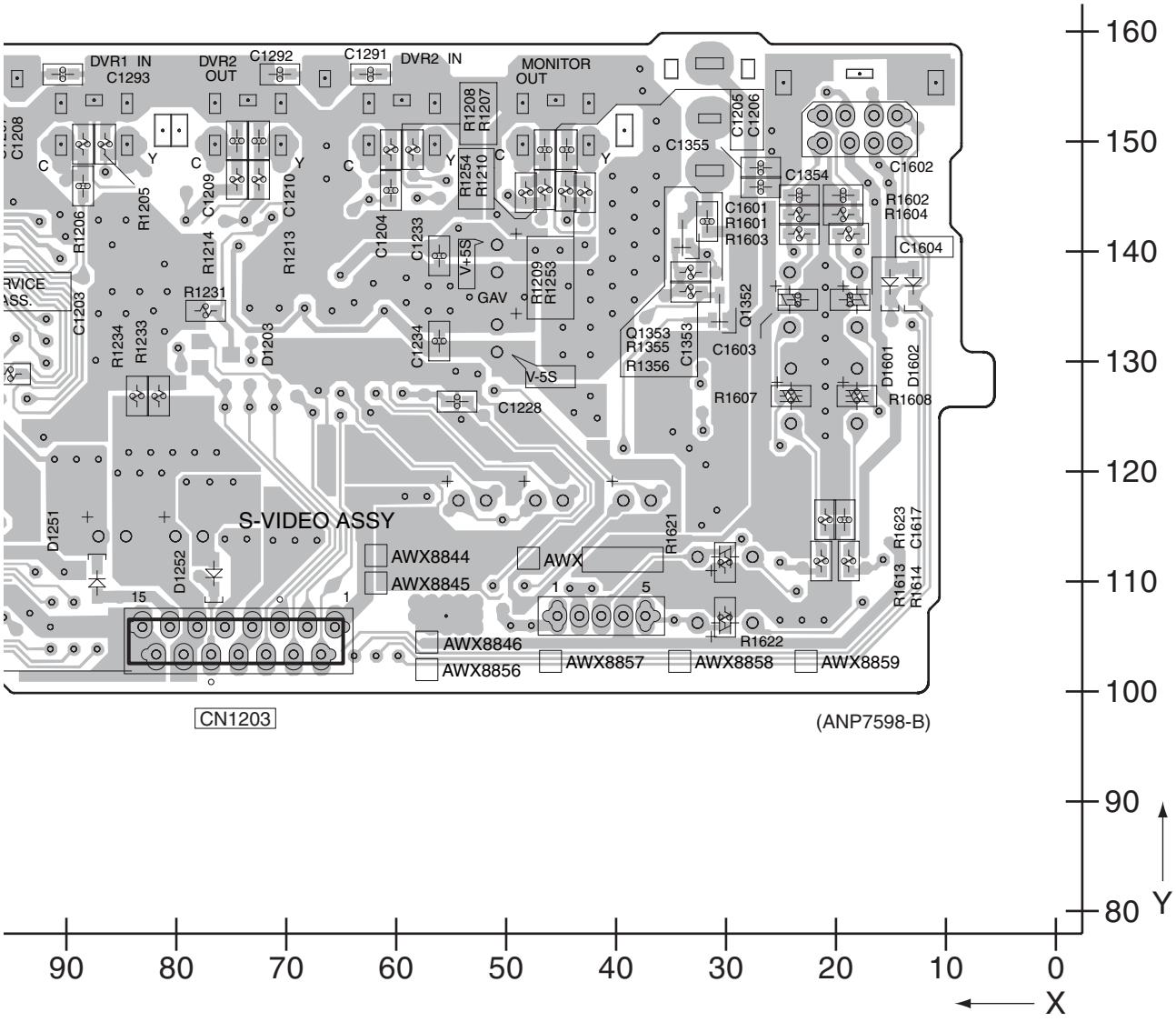

CN1205
CN1206
CN1301
CN1302
CN1201
CN1202
CN108
CN109
IC1201
IC1202
IC1203
IC1204
IC1206
AWX8857
AWX8858
AWX8859
PASS
DVC_DIRECT
FOR_SERVICE
LF
A30C5/C7
CMKM-P3X
(ANP7598-B)

SIDE B

S-VIDEO ASSY



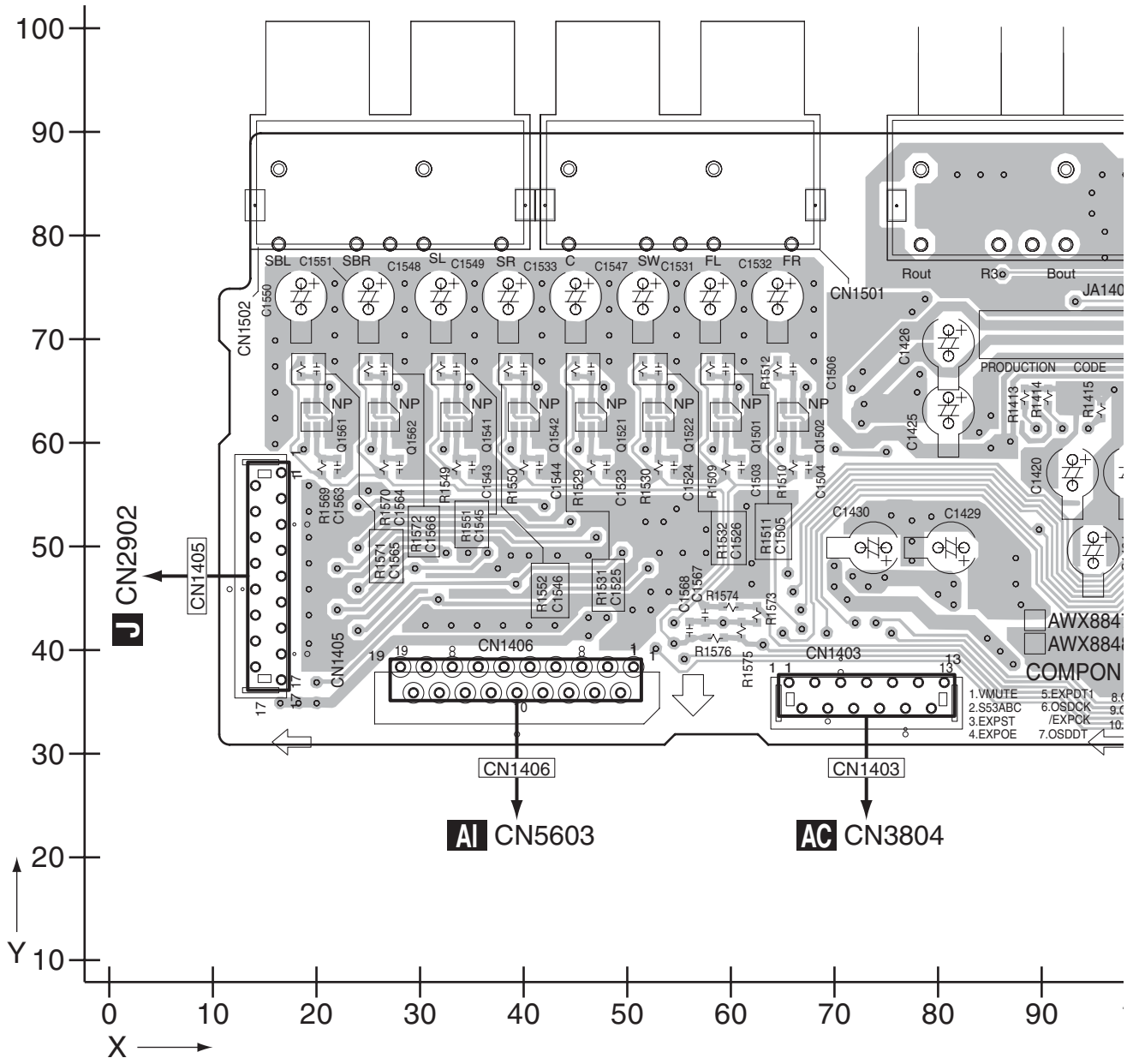
SIDE B


DVR1 IN
C1293
DVR2 OUT
C1292
C1291
DVR2 IN
MONITOR OUT
C1208
R1205
R1206
C1209
C1210
R1214
R1213
C1204
C1233
R1208
R1207
R1254
R1210
V+5S
GAV
R1209
R1253
C1355
C1205
C1206
C1354
C1602
R1602
R1604
C1601
R1601
R1603
C1604
Q1352
C1603
C1353
Q1353
R1355
R1356
V-5S
C1228
R1607
D1601
D1602
R1608
C1203
R1231
R1234
R1233
D1203
C1234
D1251
D1252
S-VIDEO ASSY
AWX8844
AWX8845
AWX
R1621
R1623
C1617
R1613
R1614
R1622
AWX8846
AWX8856
AWX8857
AWX8858
AWX8859
CN1203
(ANP7598-B)
160
150
140
130
120
110
100
90
80
Y
90
80
70
60
50
40
30
20
10
0
X

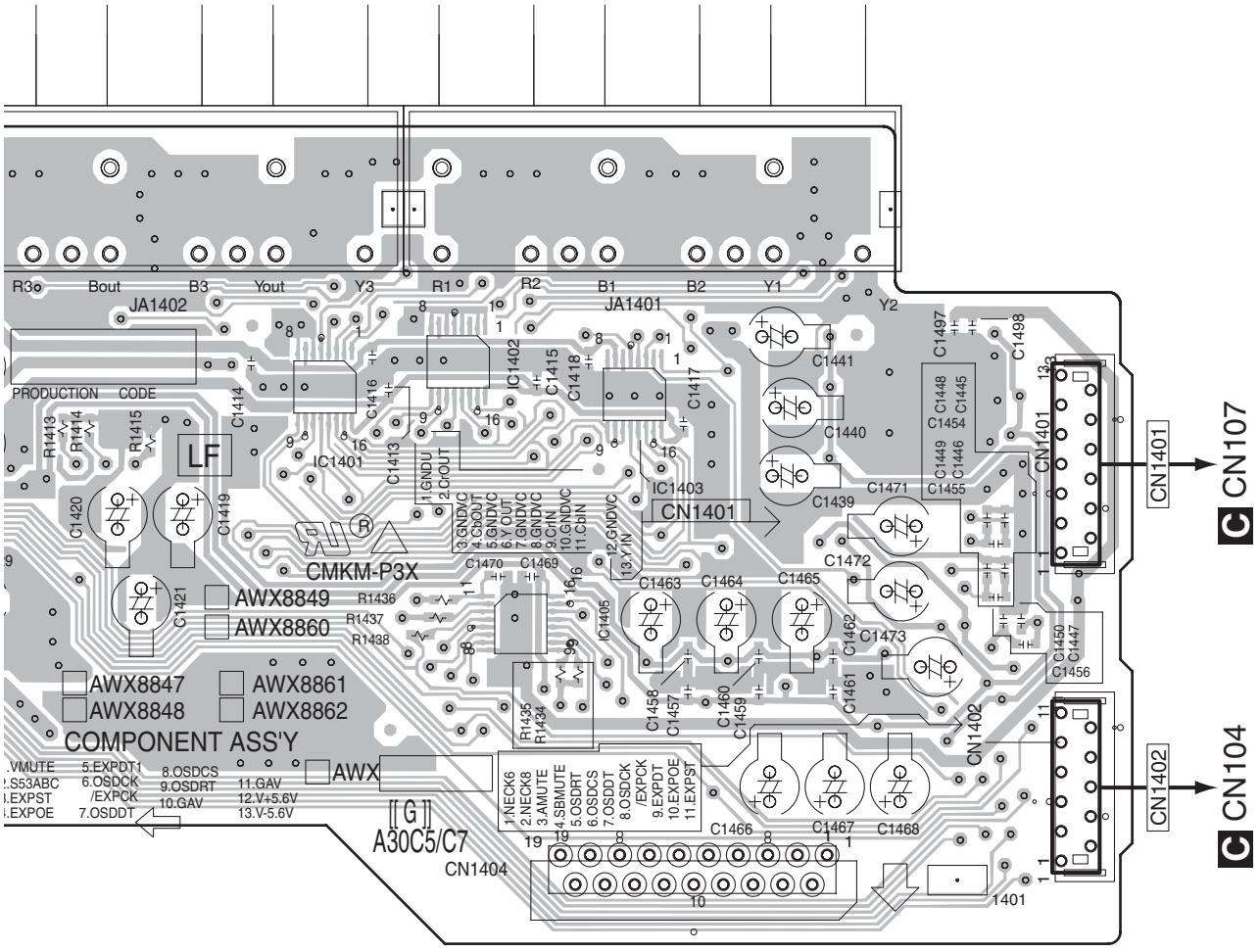
11.8 COMPONENT ASSY

SIDE A

K COMPONENT ASSY

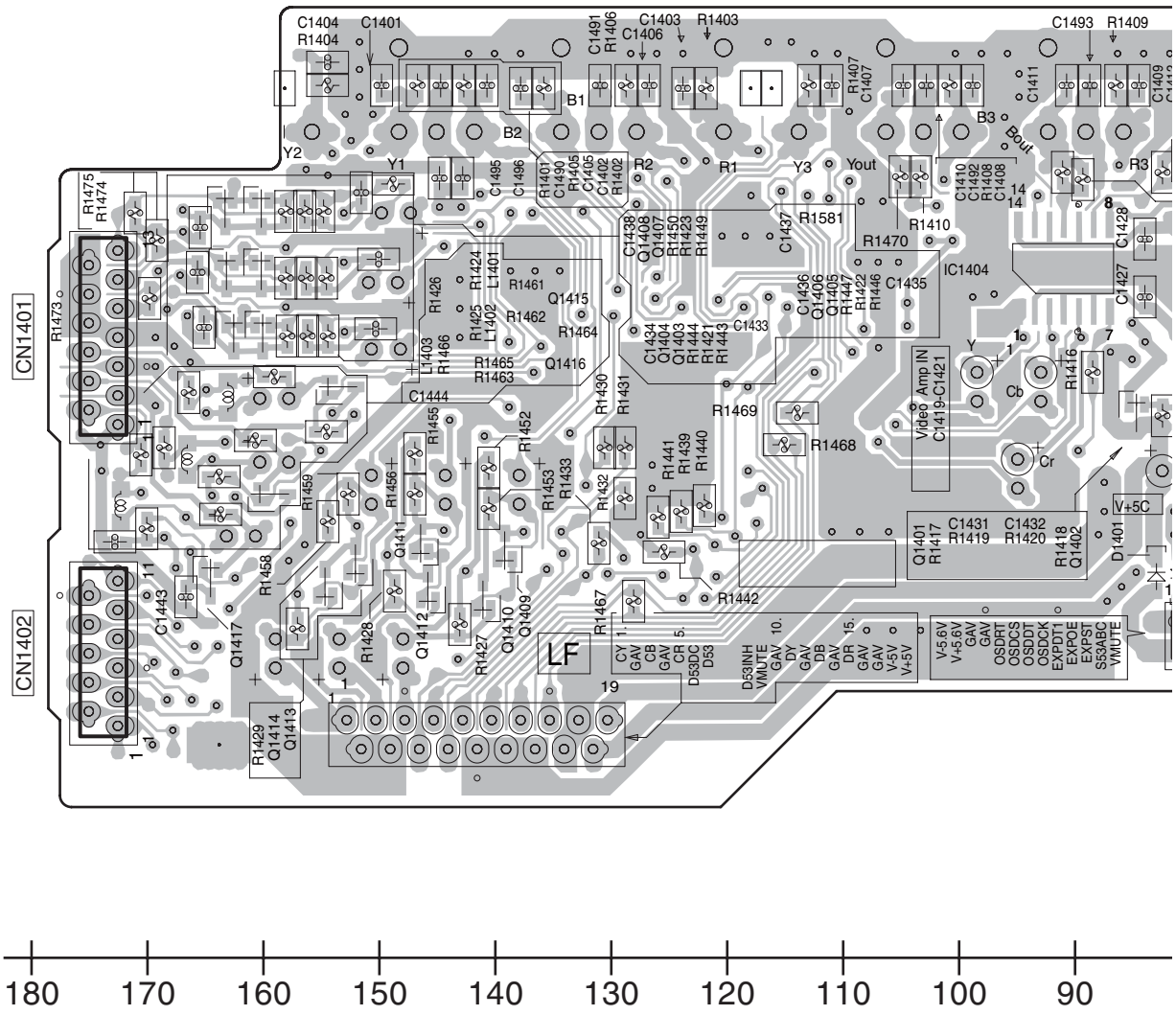


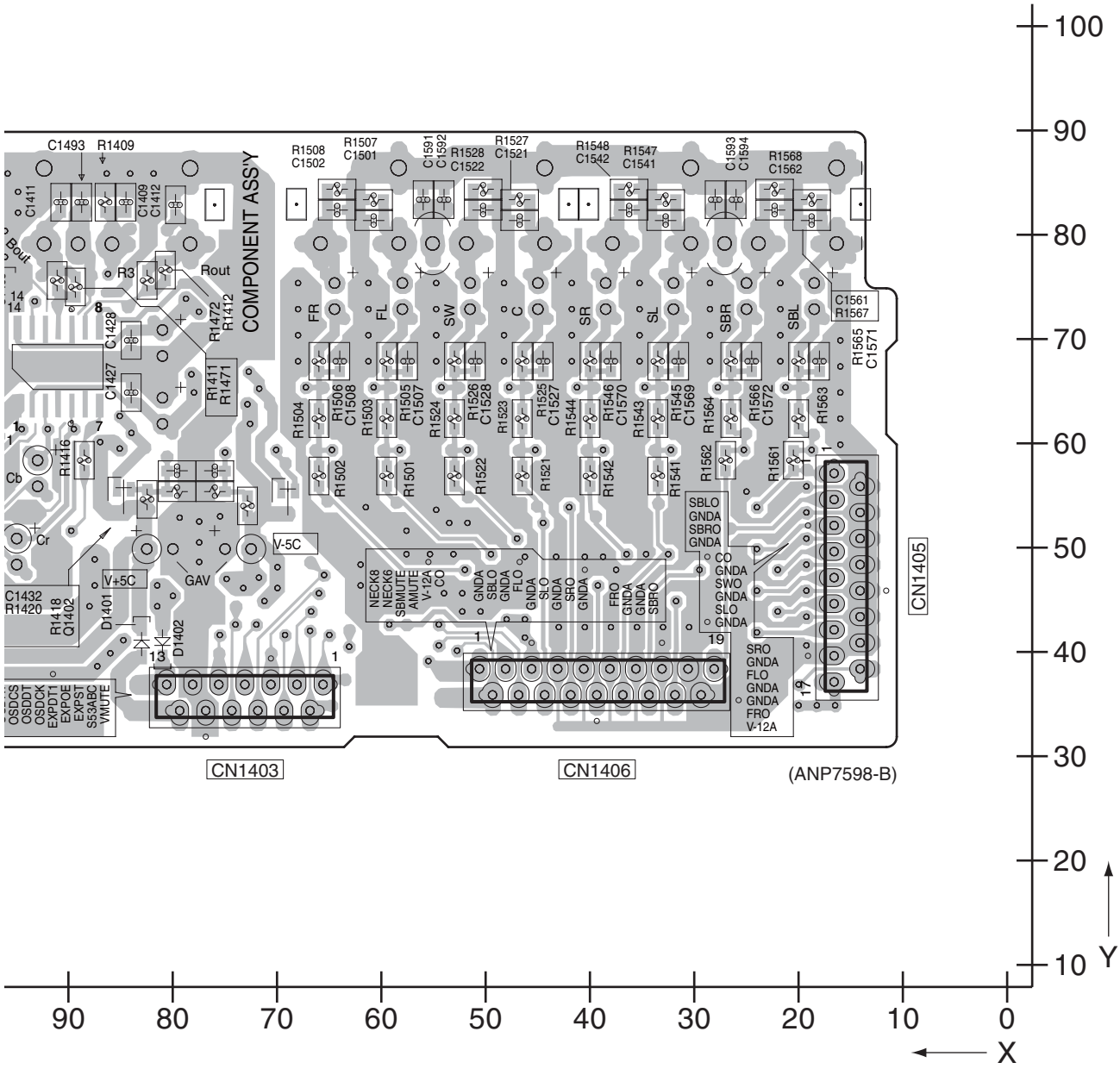
SIDE A


JA1402
JA1401
PRODUCTION CODE
LF
IC1401
IC1403
CN1401
CMKM-P3X
AWX8849
AWX8860
AWX8847
AWX8848
AWX8861
AWX8862
COMPONENT ASS'Y
AWX
[[G]]
A30C5/C7
CN1404
CN1402
CN1401
C CN107
C CN104
(ANP7598-B)

SIDE B

K COMPONENT ASSY

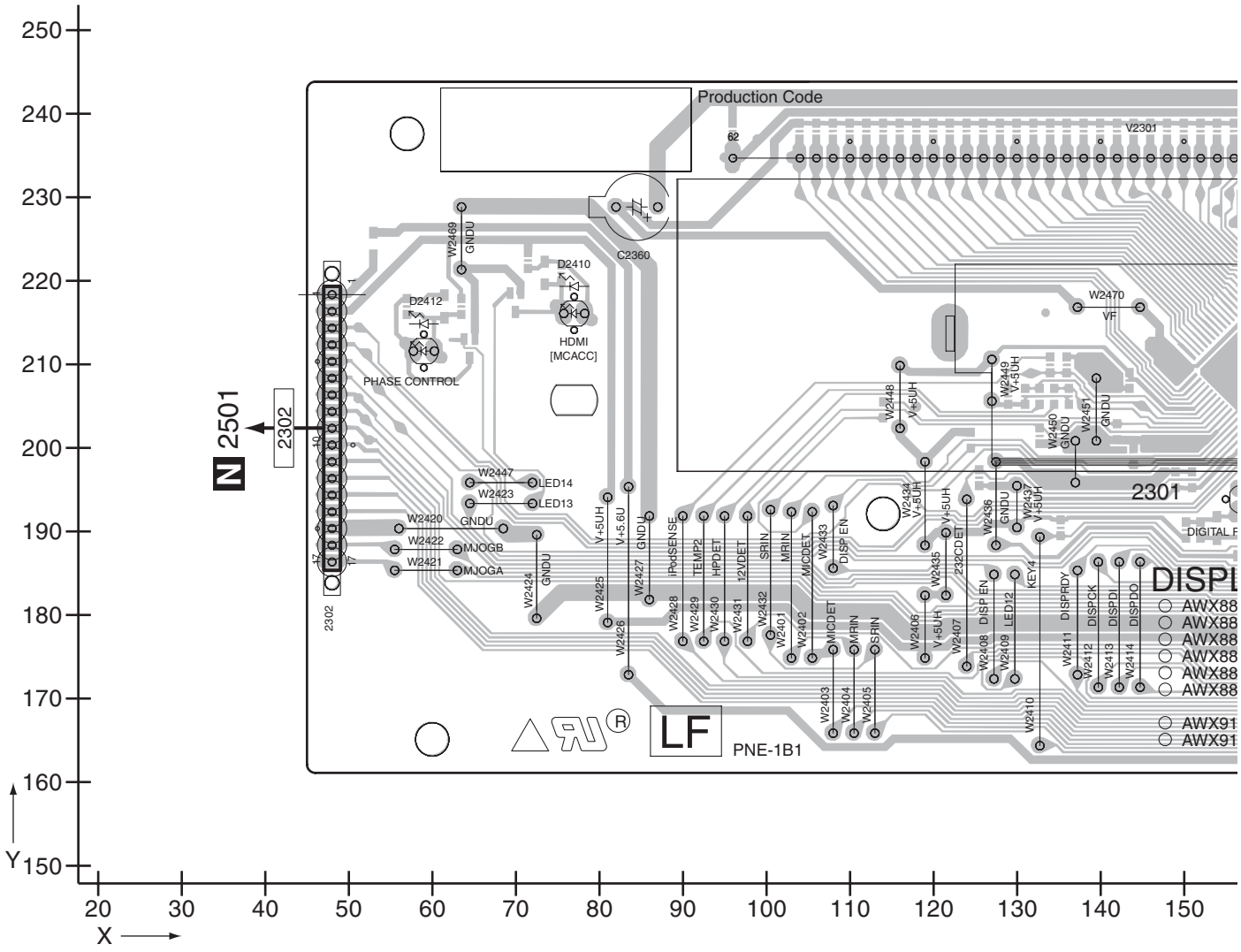



COMPONENT ASS'Y
C1493 R1409
C1411
C1409 C1412
R1508 C1502
R1507 C1501
C1591 C1592
R1528 C1522
R1527 C1521
R1548 C1542
R1547 C1541
C1593 C1594
R1568 C1562
Bout
R3
Rout
R1472 R1412
C1428
C1427
R1411 R1471
C1561 R1567
R1565 C1571
FR
FL
SW
C
SR
SL
SBR
SBL
R1504
R1506 C1508
R1503
R1505 C1507
R1524
R1526 C1528
R1523
R1525 C1527
R1544
R1546 C1570
R1543
R1545 C1569
R1564
R1566 C1572
R1563
R1416
Cb
Cr
V-5C
V+5C
GAV
C1432 R1420
R1418 Q1402
D1401
D1402
R1502
R1501
R1522
R1521
R1542
R1541
R1562
R1561
SBLO
GNDA
SBRO
GNDA
CO
GNDA
SWO
GNDA
SLO
GNDA
SRO
GNDA
FLO
GNDA
GNDA
GNDA
FRO
V-12A
NECK8
NECK6
SBMUTE
AMUTE
V-12A
CO
GNDA
SBLO
GNDA
FLO
GNDA
SLO
GNDA
SRO
GNDA
FRO
GNDA
GNDA
SBRO
OSDCS
OSDDT
OSDCK
EXPDT1
EXPOE
EXPST
S53ABC
VMUTE
CN1403
CN1406
CN1405
(ANP7598-B)
100
90
80
70
60
50
40
30
20
10
0
X
Y

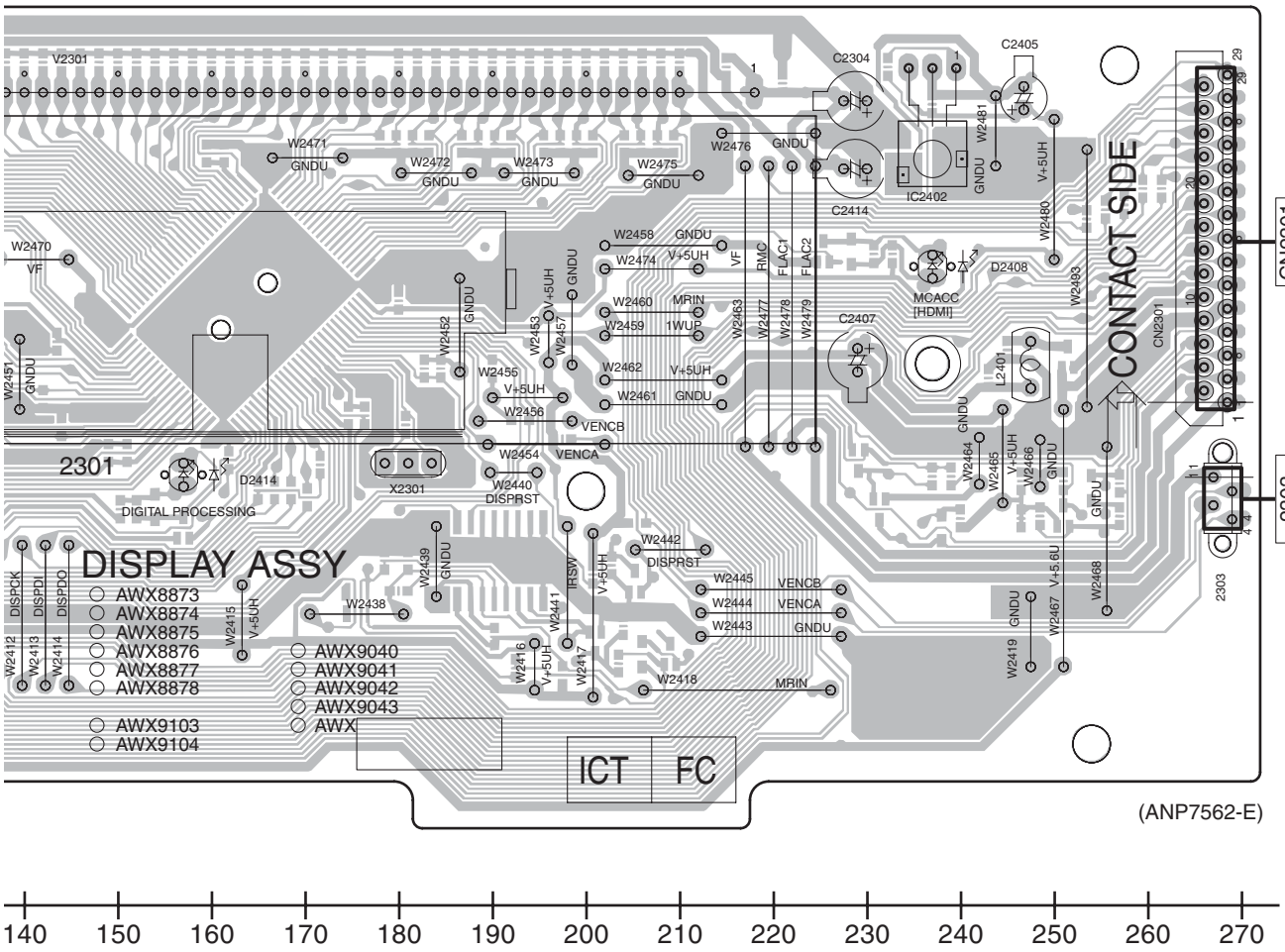
11.9 DISPLAY ASSY

SIDE A

L DISPLAY ASSY

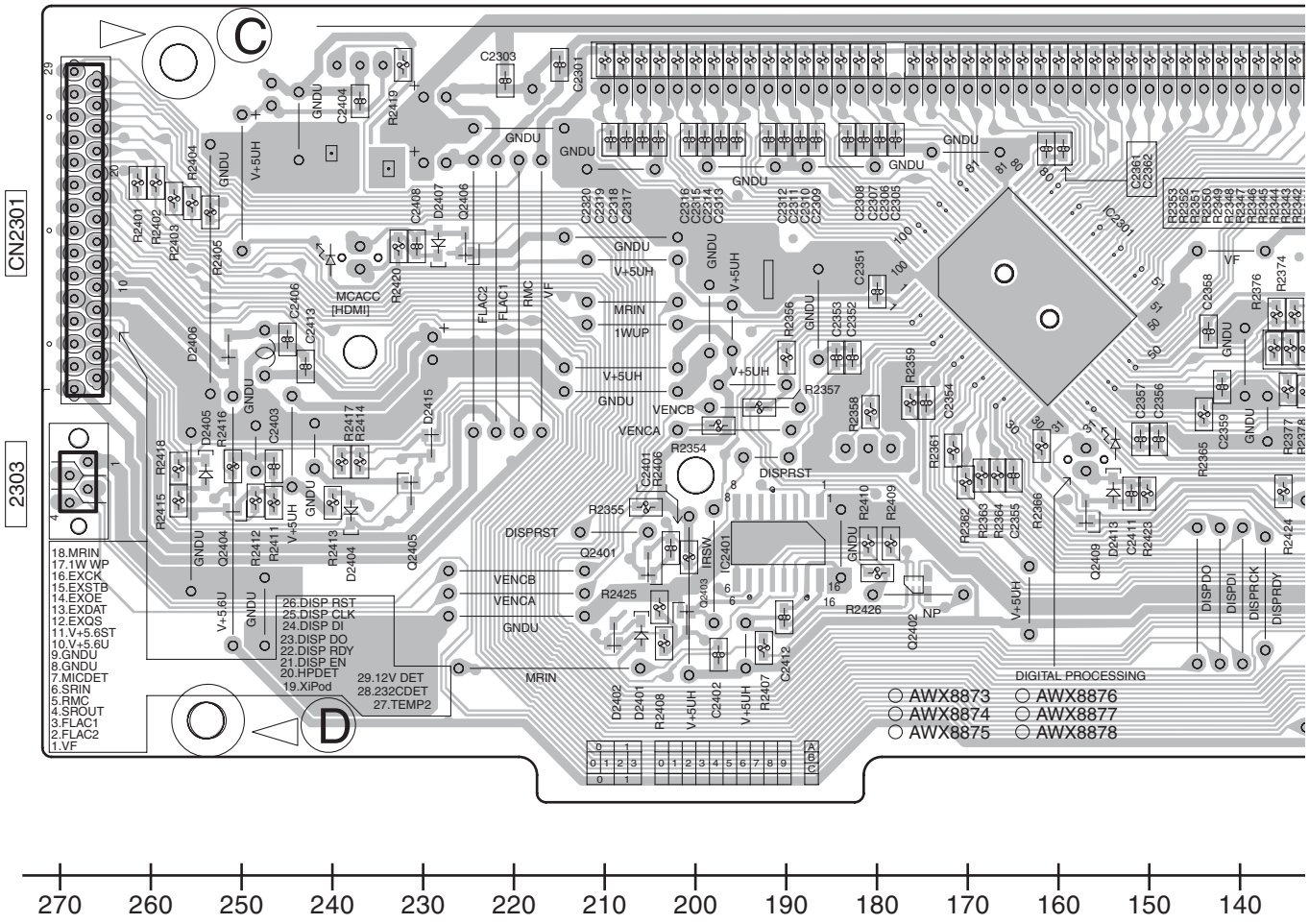


SIDE A

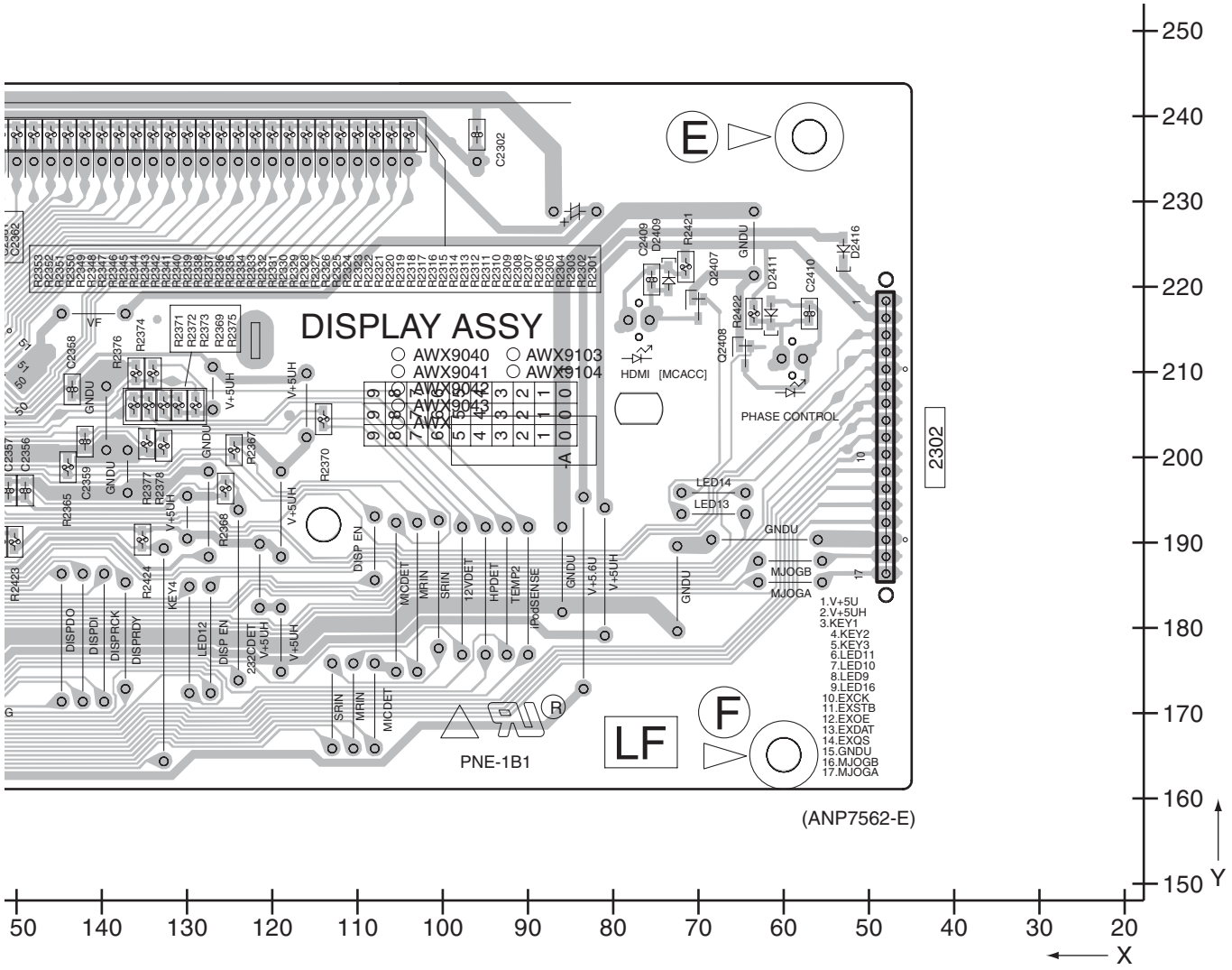

DISPLAY ASSY
AWX8873
AWX8874
AWX8875
AWX8876
AWX8877
AWX8878
AWX9103
AWX9104
AWX9040
AWX9041
AWX9042
AWX9043
AWX
2301
DIGITAL PROCESSING
D2414
X2301
V2301
C2304
C2405
C2414
IC2402
C2407
D2408
MCACC
[HDMI]
L2401
CONTACT SIDE
CN2301
CN2301
2303
2303
CN101
2451
ICT
FC
(ANP7562-E)
140 150 160 170 180 190 200 210 220 230 240 250 260 270

SIDE B

L DISPLAY ASSY



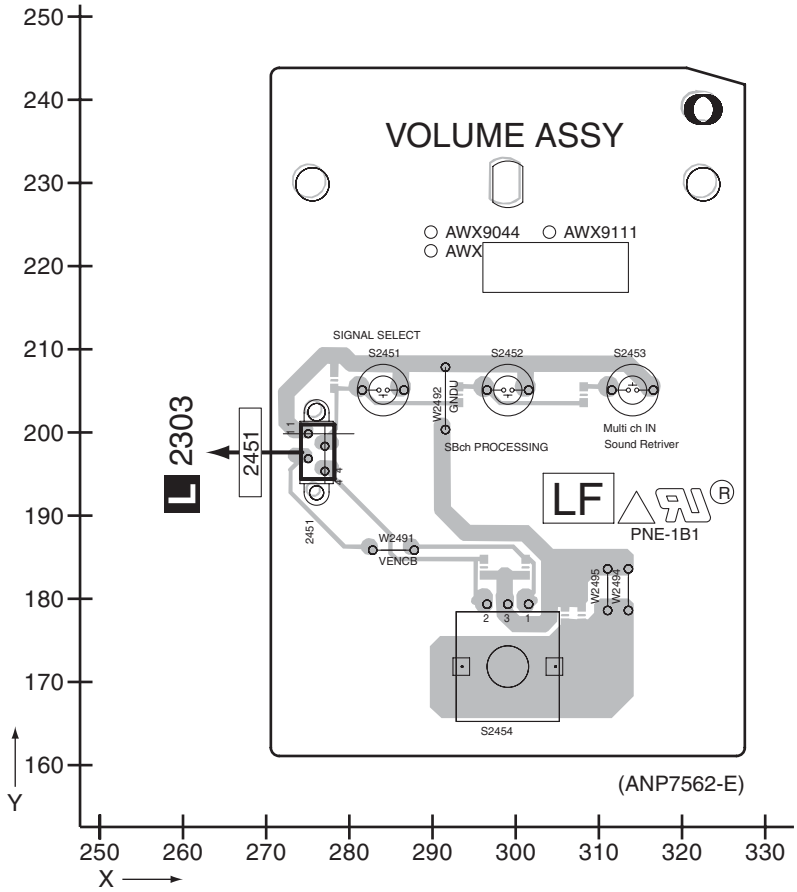
SIDE B



(ANP7562-E)

11.10 VOLUME ASSY

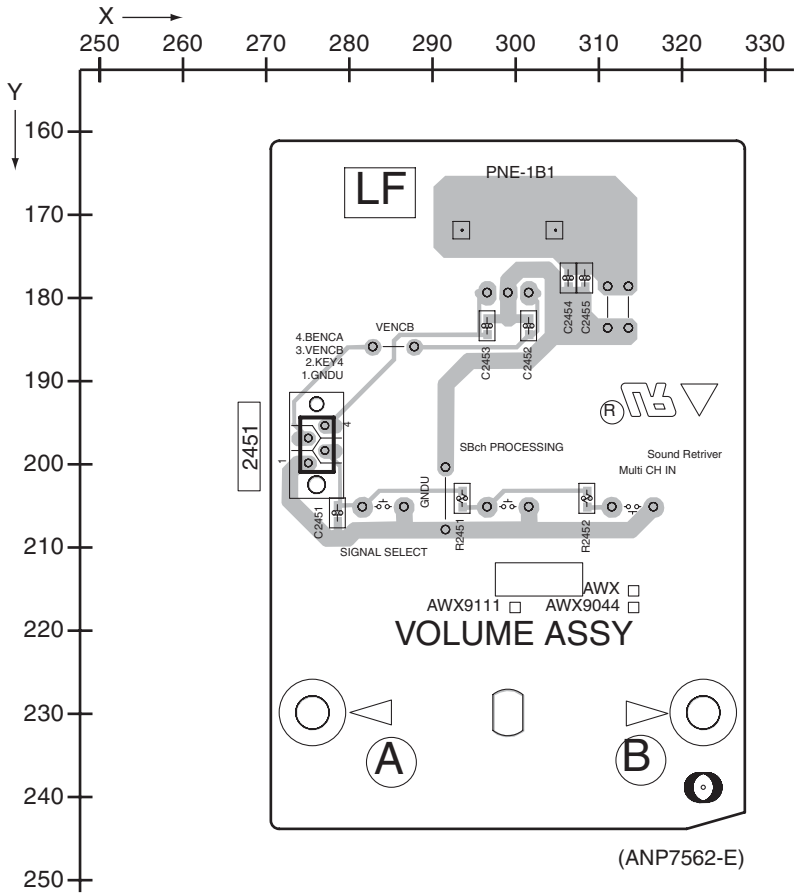
SIDE A



SIDE A

M VOLUME ASSY

SIDE B



SIDE B

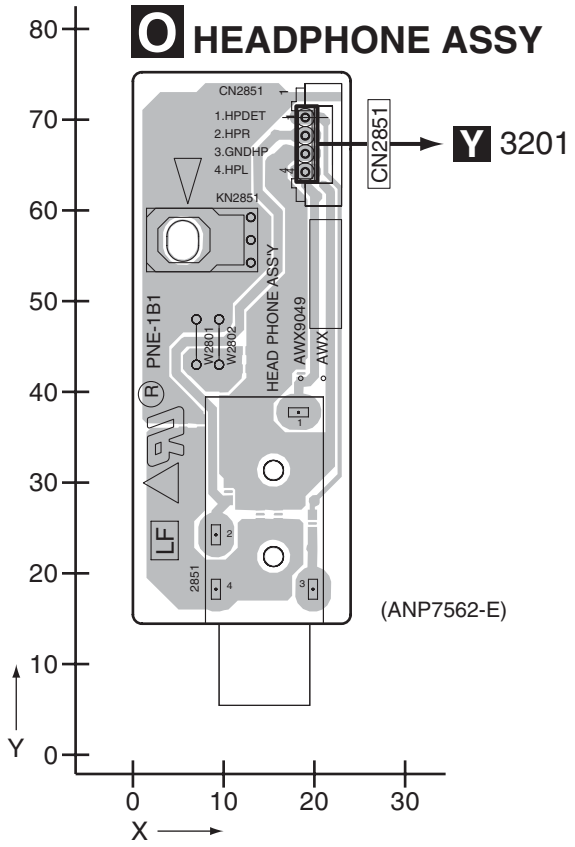
M VOLUME ASSY

M

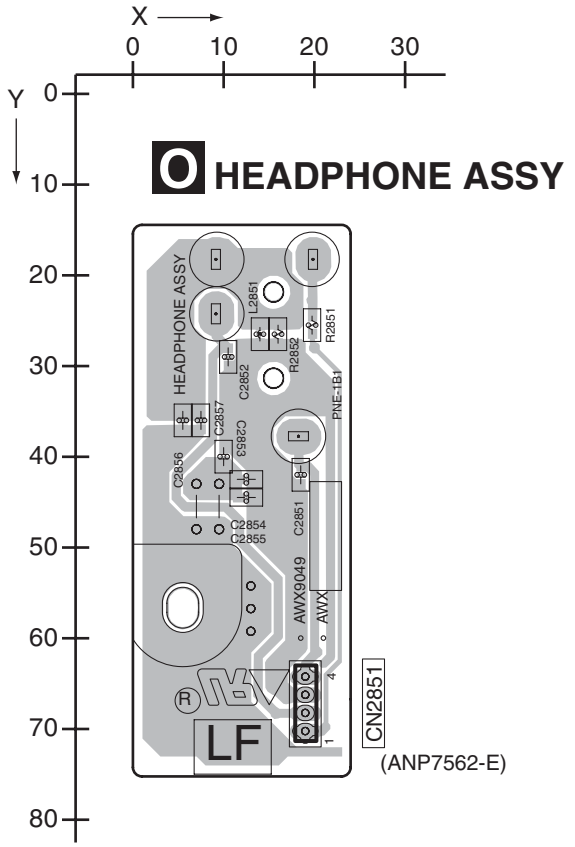
M

11.11 HEADPHONE ASSY

SIDE A



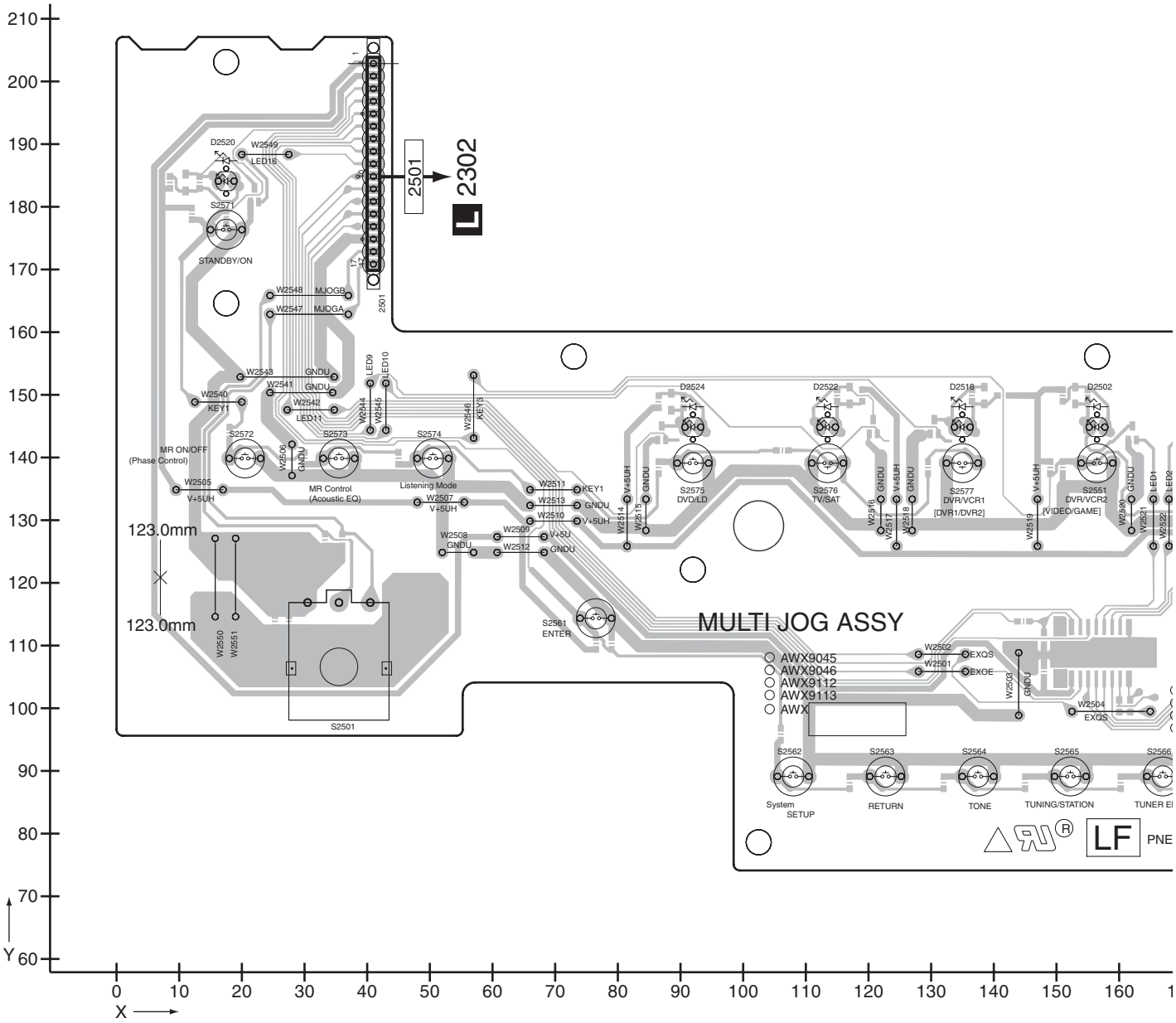
SIDE B



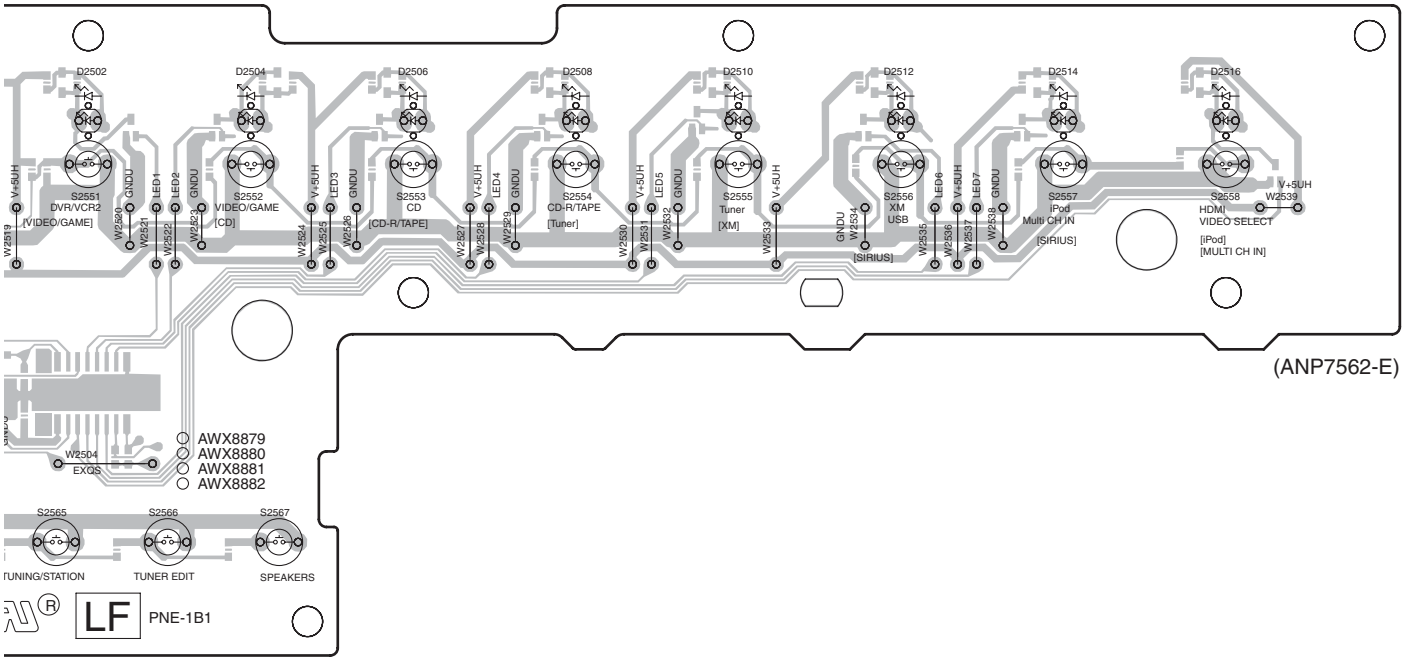
11.12 MULTI JOG ASSY

SIDE A

N MULTI JOG ASSY



SIDE A

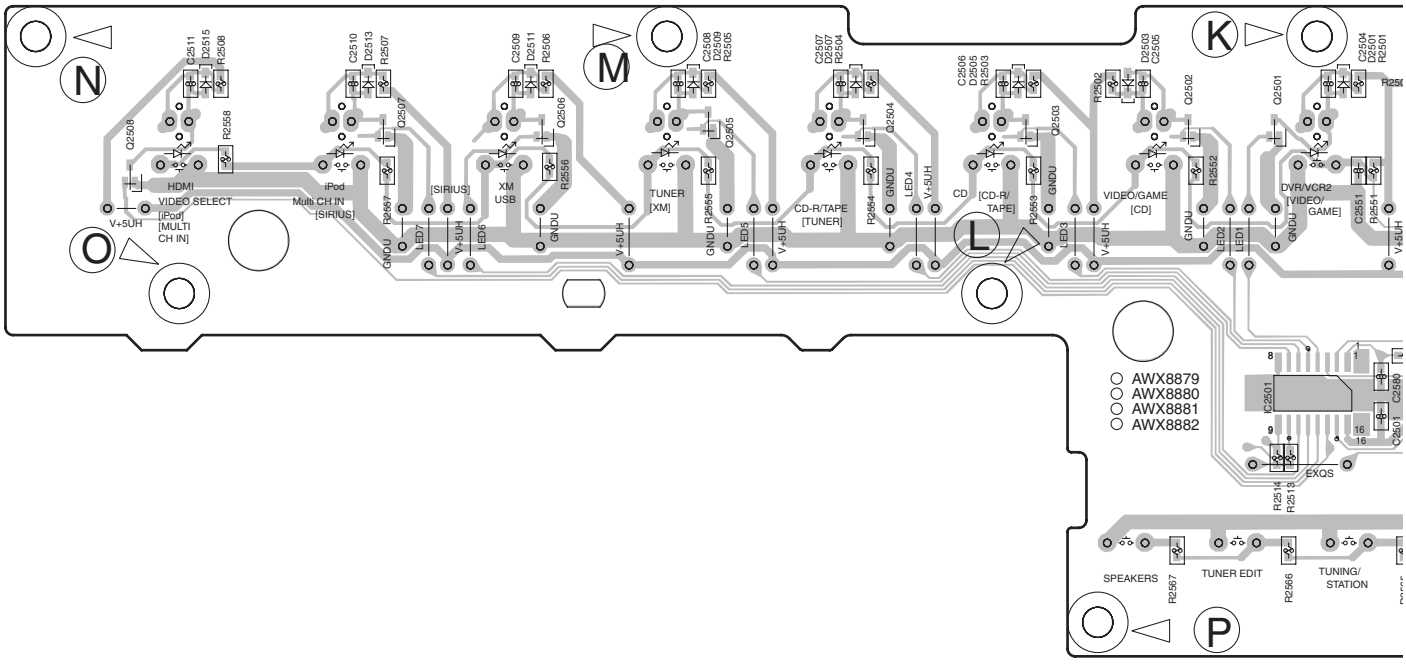


(ANP7562-E)

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330

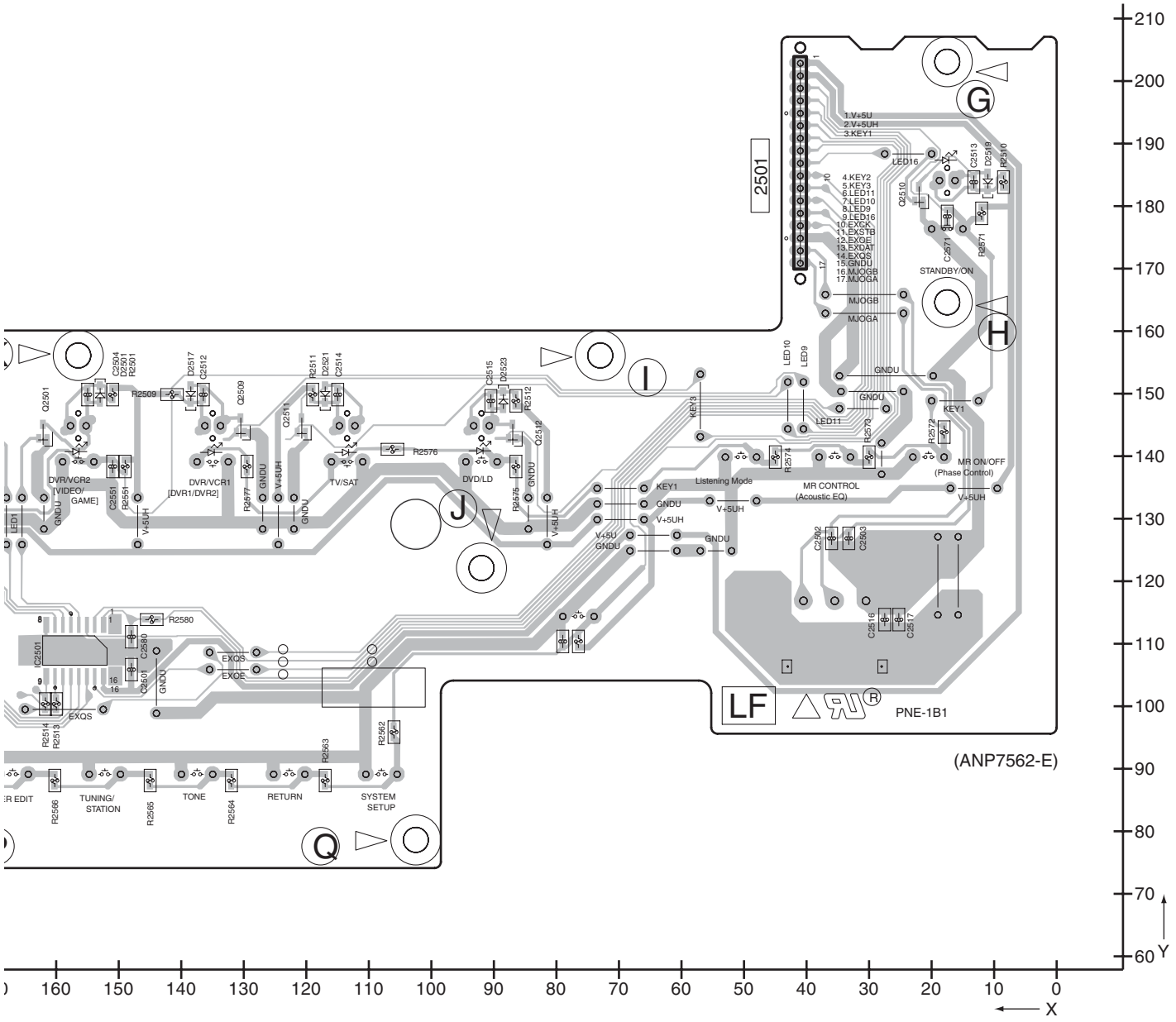
SIDE B

N MULTI JOG ASSY



330 320 310 300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150

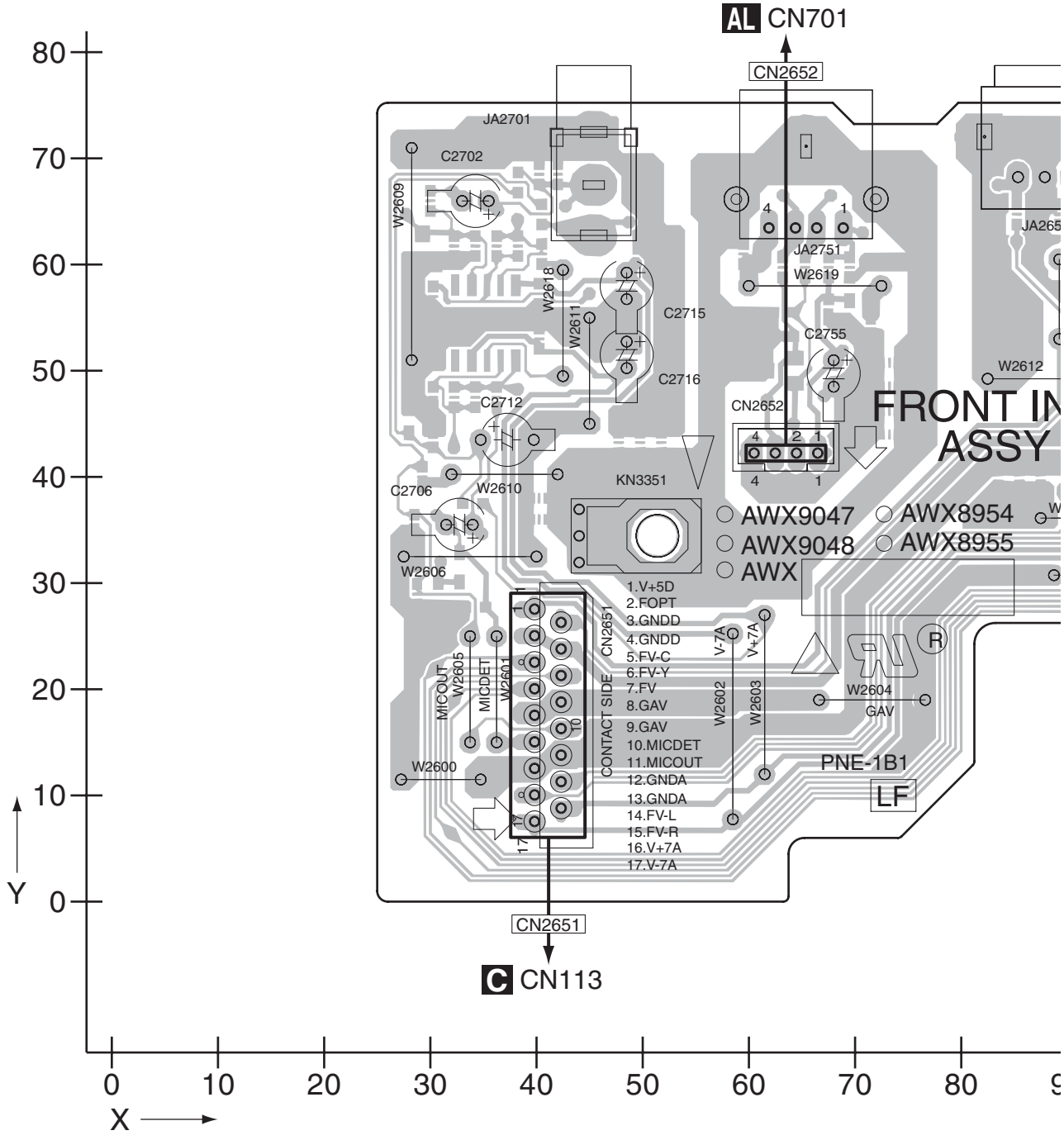
SIDE B


2501
1.V+5U
2.V+5UH
3.KEY1
4.KEY2
5.KEY3
6.LED11
7.LED10
8.LED9
9.LED16
10.EXOK
11.EXSTB
12.EXOE
13.EXDAT
14.EXOS
15.GNDU
16.MJOGB
17.MJOGA
LED16
STANDBY/ON
MJOGB
MJOGA
LED10
LED9
LED11
KEY3
KEY1
GNDU
V+5UH
V+5U
Listening Mode
MR CONTROL
(Acoustic EQ)
MR ON/OFF
(Phase Control)
DVR/VCR2
[VIDEO/
GAME]
DVR/VCR1
[DVR1/DVR2]
TV/SAT
DVD/LD
IC2501
EXOS
EXOE
TUNING/
STATION
TONE
RETURN
SYSTEM
SETUP
LF
PNE-1B1
(ANP7562-E)
G
H
I
J
Q
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
Y
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
X

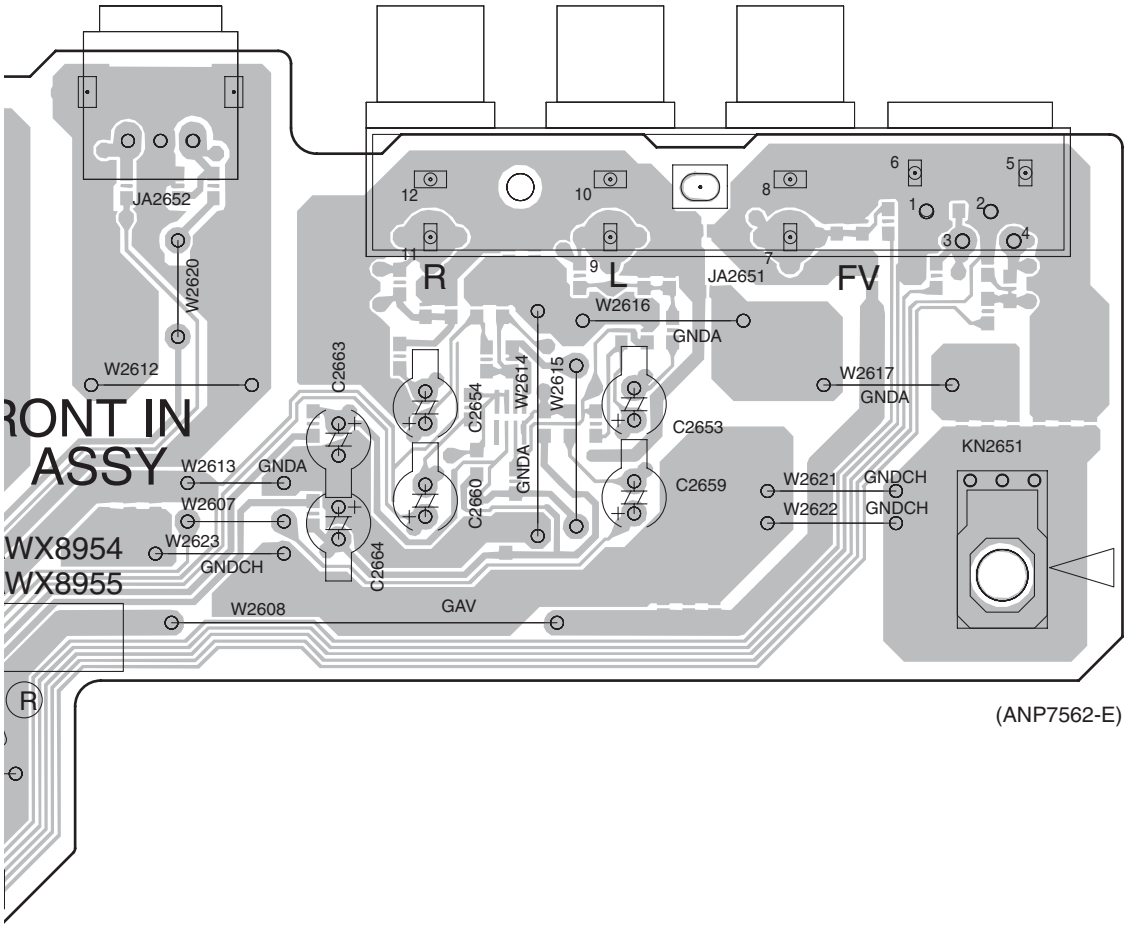
11.13 FRONT-IN ASSY

SIDE A

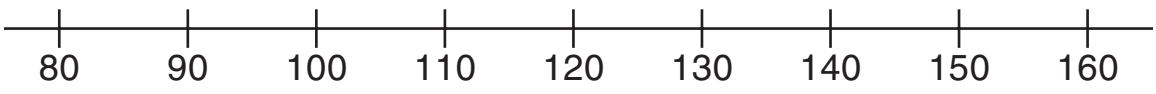
P FRONT-IN ASSY



SIDE A

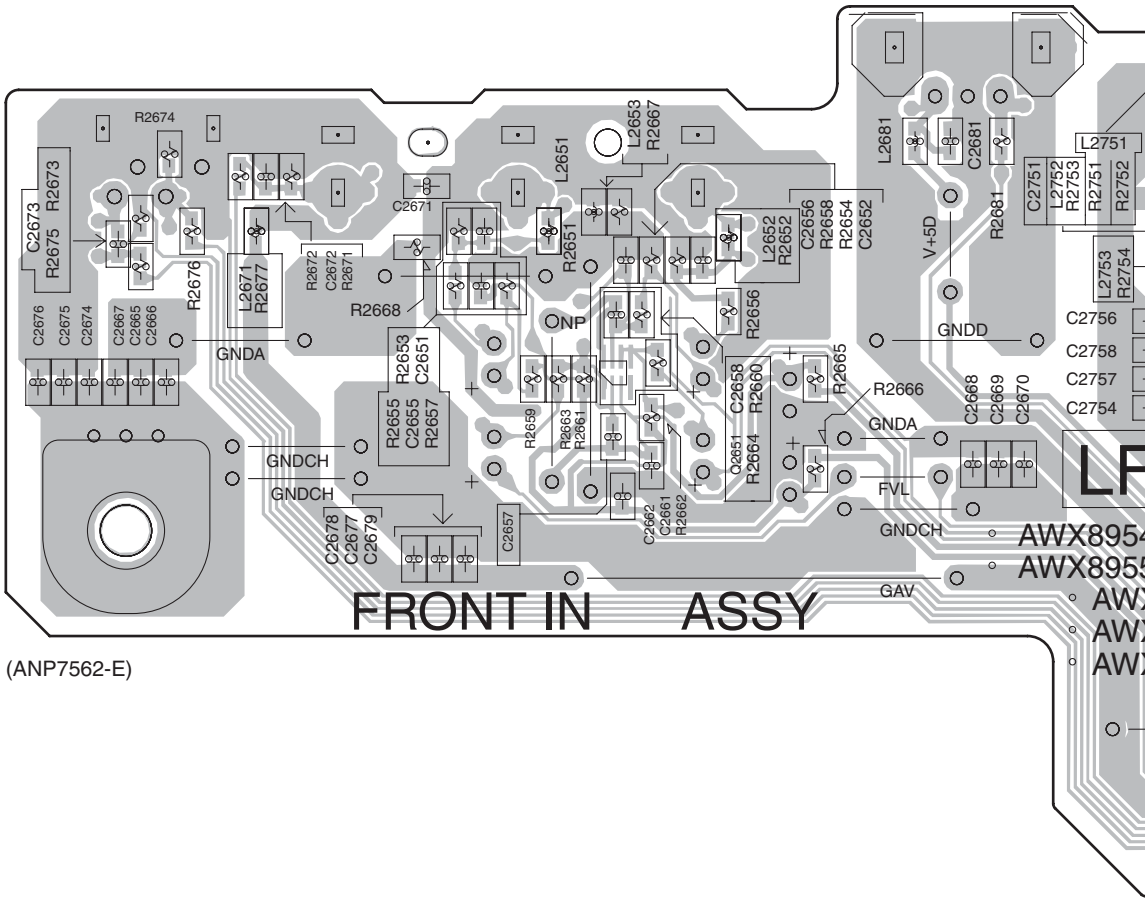


(ANP7562-E)



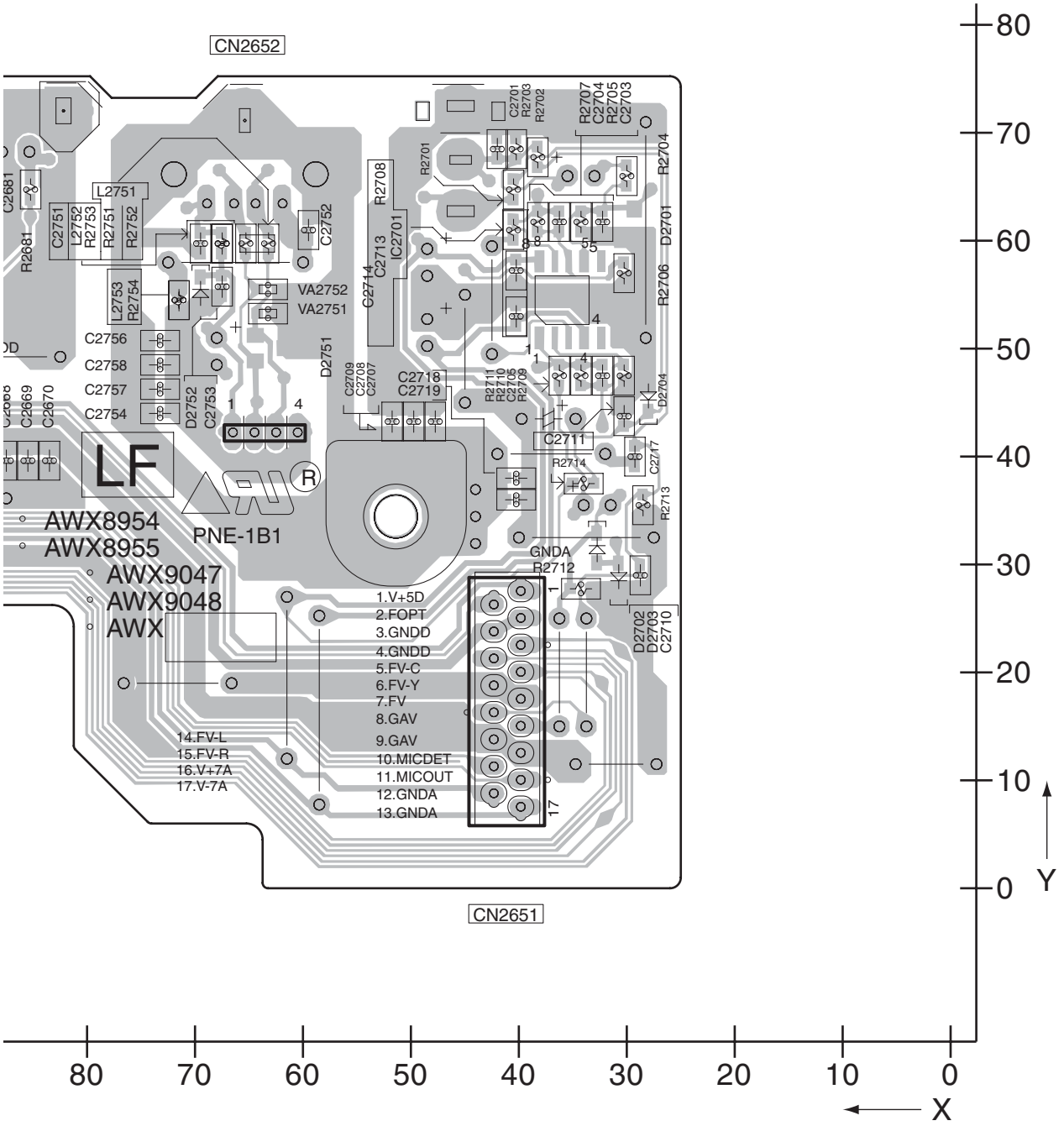
SIDE B

P FRONT-IN ASSY



(ANP7562-E)

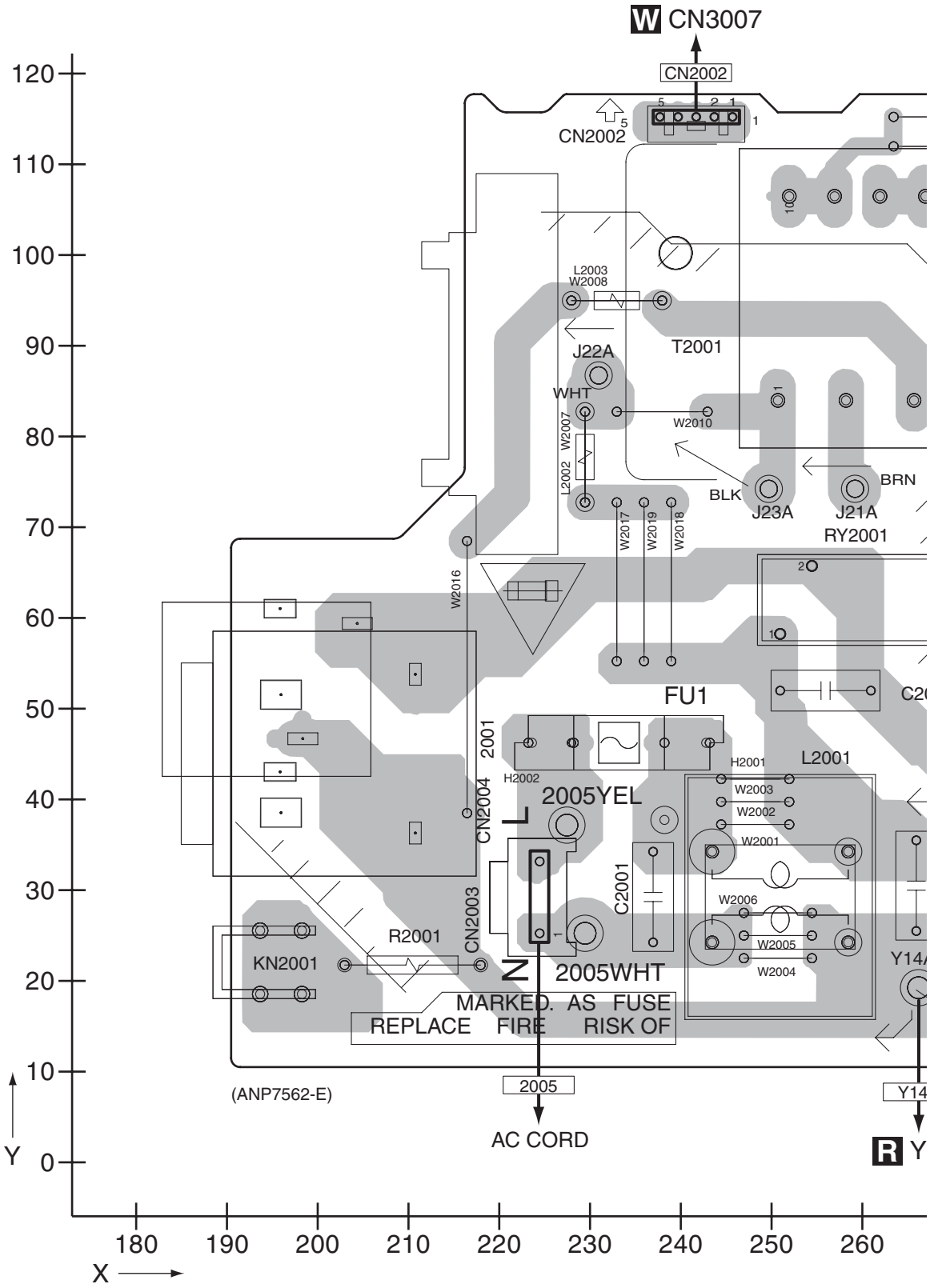
SIDE B


CN2652
CN2651
LF
PNE-1B1
AWX8954
AWX8955
AWX9047
AWX9048
AWX
1.V+5D
2.FOPT
3.GNDD
4.GNDD
5.FV-C
6.FV-Y
7.FV
8.GAV
9.GAV
10.MICDET
11.MICOUT
12.GNDA
13.GNDA
14.FV-L
15.FV-R
16.V+7A
17.V-7A
GNDA
R2712
C2711
C2718
C2719
C2713
IC2701
L2751
VA2752
VA2751
C2756
C2758
C2757
C2754
D2752
C2753
D2751
R2708
R2701
R2707
C2704
R2705
C2703
C2701
R2703
R2702
R2704
D2701
R2706
D2704
C2747
R2713
R2714
D2702
D2703
C2710
80 70 60 50 40 30 20 10 0
Y
80 70 60 50 40 30 20 10 0
X

11.14 PRIMARY ASSY

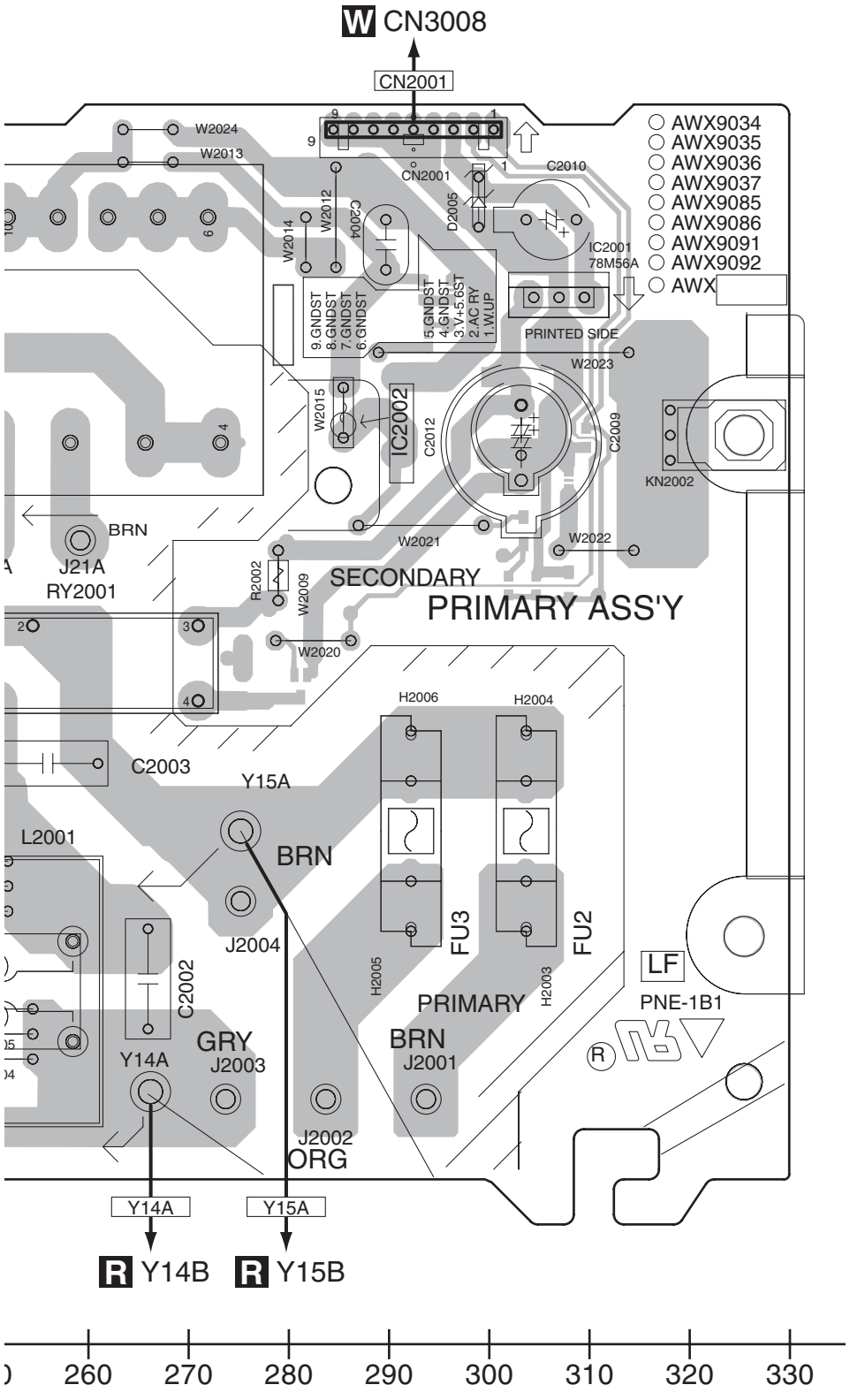
SIDE A

Q PRIMARY ASSY



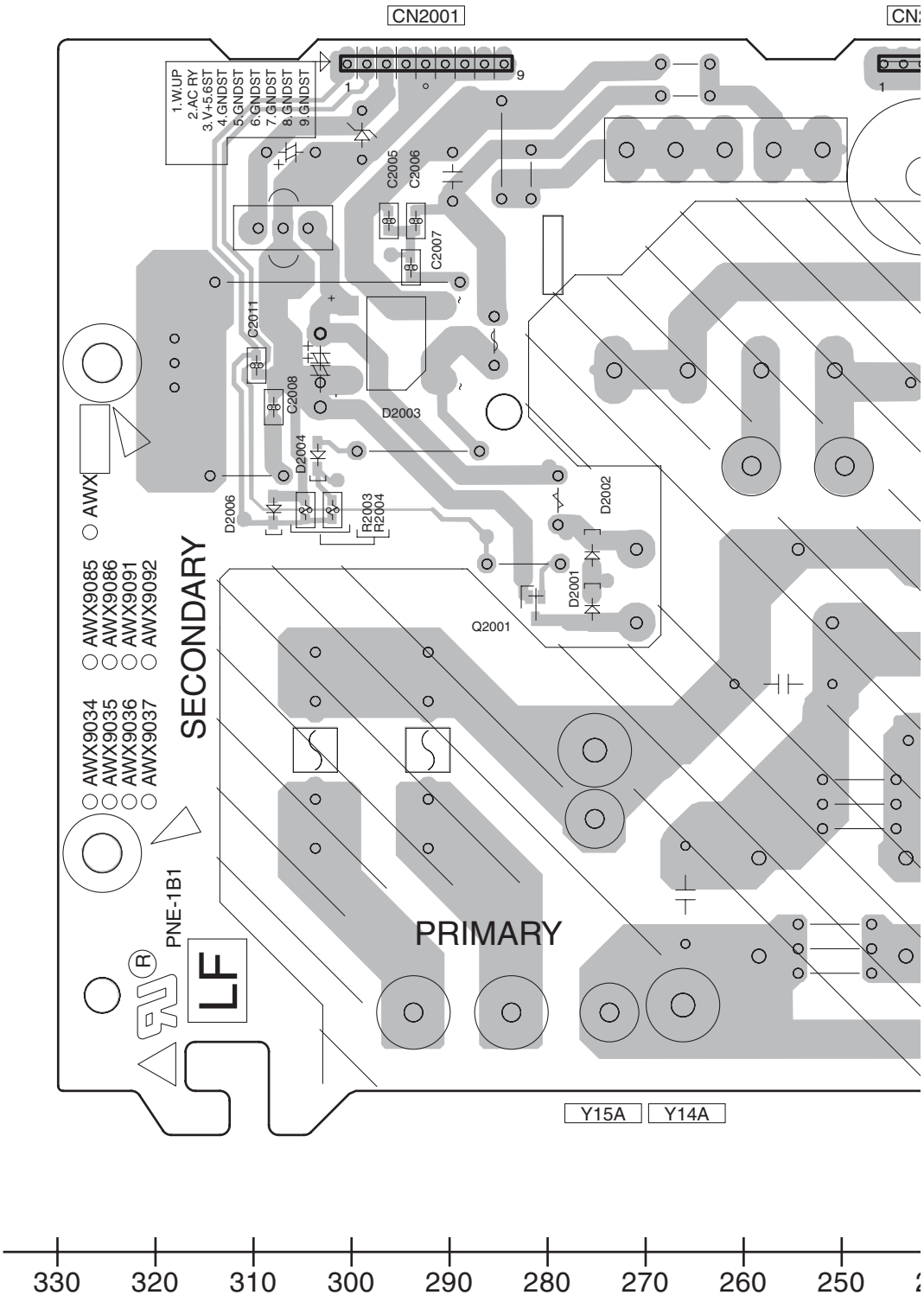
Q

SIDE A

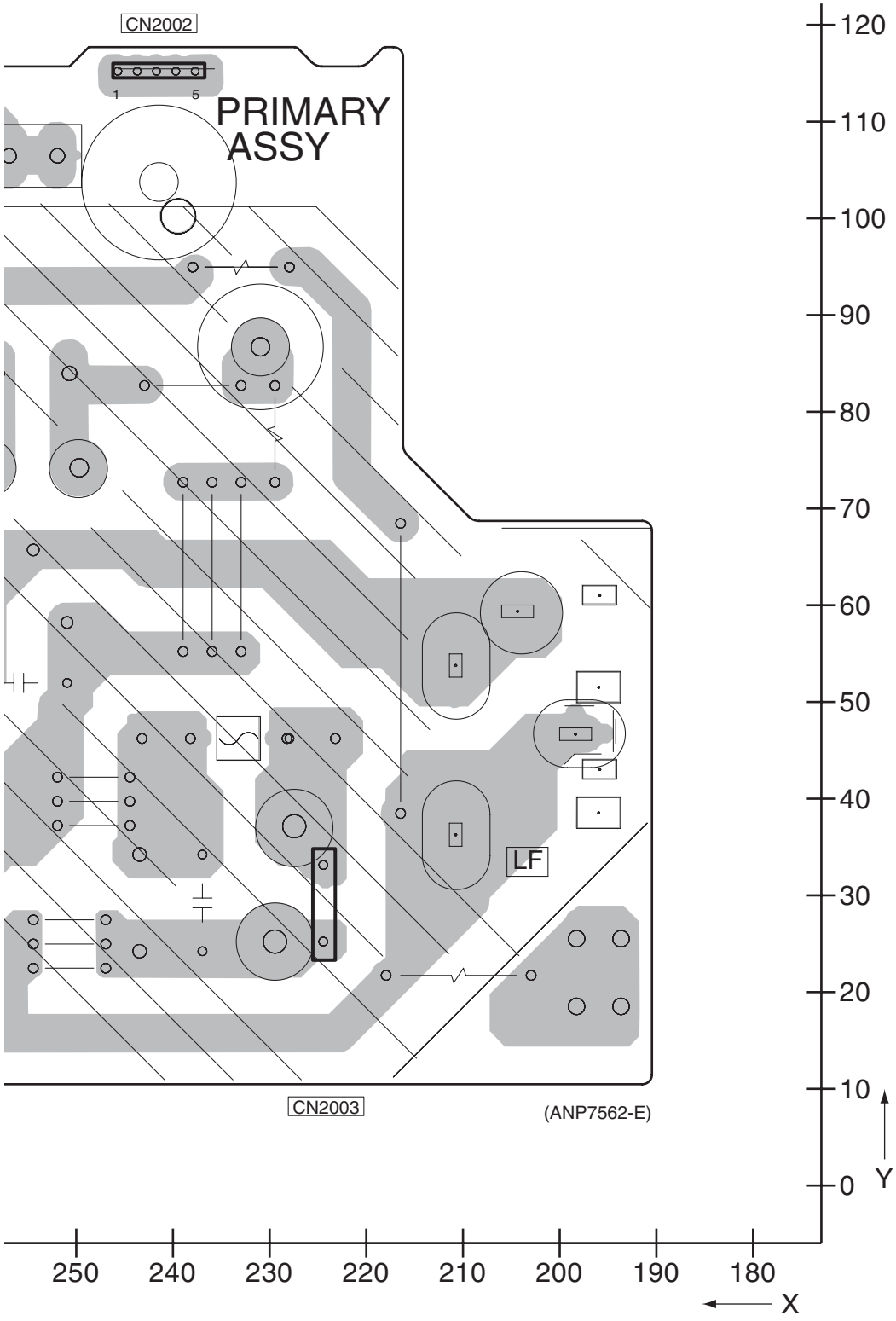

W CN3008
CN2001
W2024
W2013
CN2001
C2010
D2005
W2014
W2012
C2004
IC2001
78M56A
AWX9034
AWX9035
AWX9036
AWX9037
AWX9085
AWX9086
AWX9091
AWX9092
AWX
9.GNDST
8.GNDST
7.GNDST
6.GNDST
5.GNDST
4.GNDST
3.V+5.6ST
2.AC RY
1.WUP
PRINTED SIDE
W2023
W2015
IC2002
C2012
C2009
KN2002
BRN
J21A
RY2001
W2021
W2022
R2002
W2009
SECONDARY
PRIMARY ASS'Y
W2020
H2006
H2004
C2003
Y15A
L2001
BRN
J2004
FU3
FU2
LF
PNE-1B1
C2002
H2005
H2003
PRIMARY
GRY
Y14A
J2003
BRN
J2001
J2002
ORG
Y14A
Y15A
R Y14B
R Y15B
260
270
280
290
300
310
320
330

SIDE B

Q PRIMARY ASSY



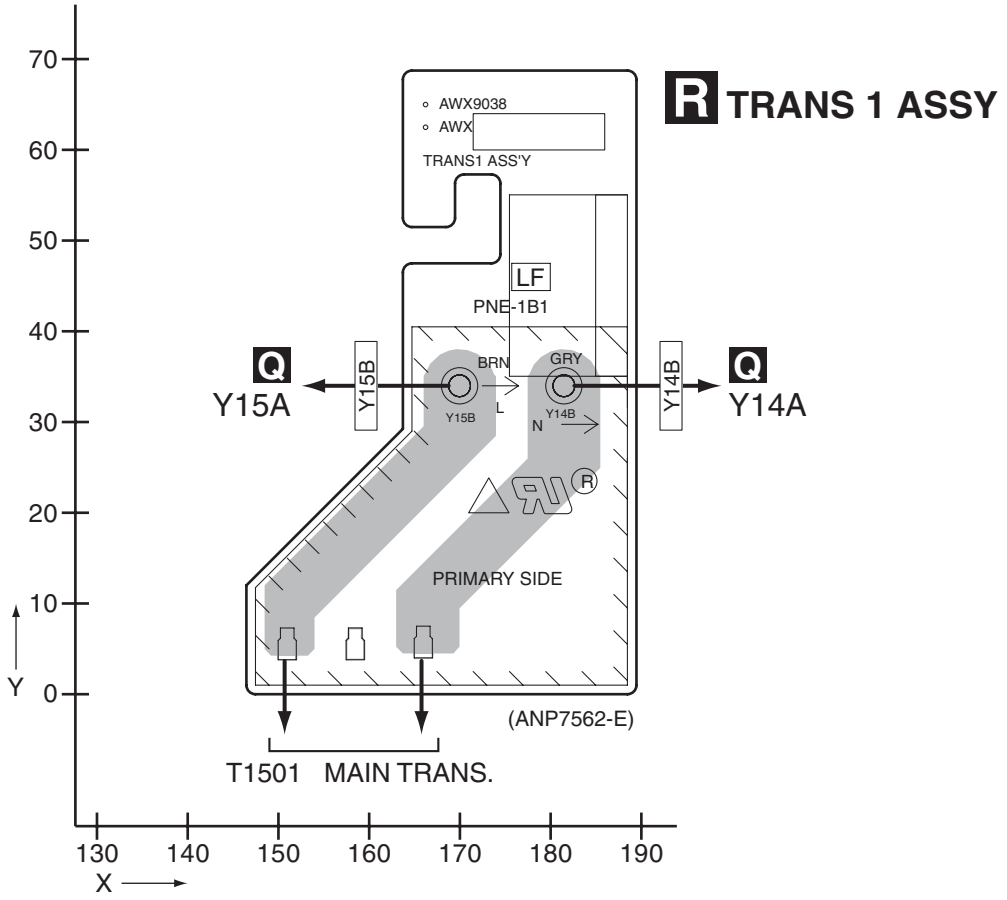
SIDE B


CN2002
1
5
PRIMARY
ASSY
LF
CN2003
(ANP7562-E)
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
250
240
230
220
210
200
190
180
X

11.15 TRANS 1 ASSY

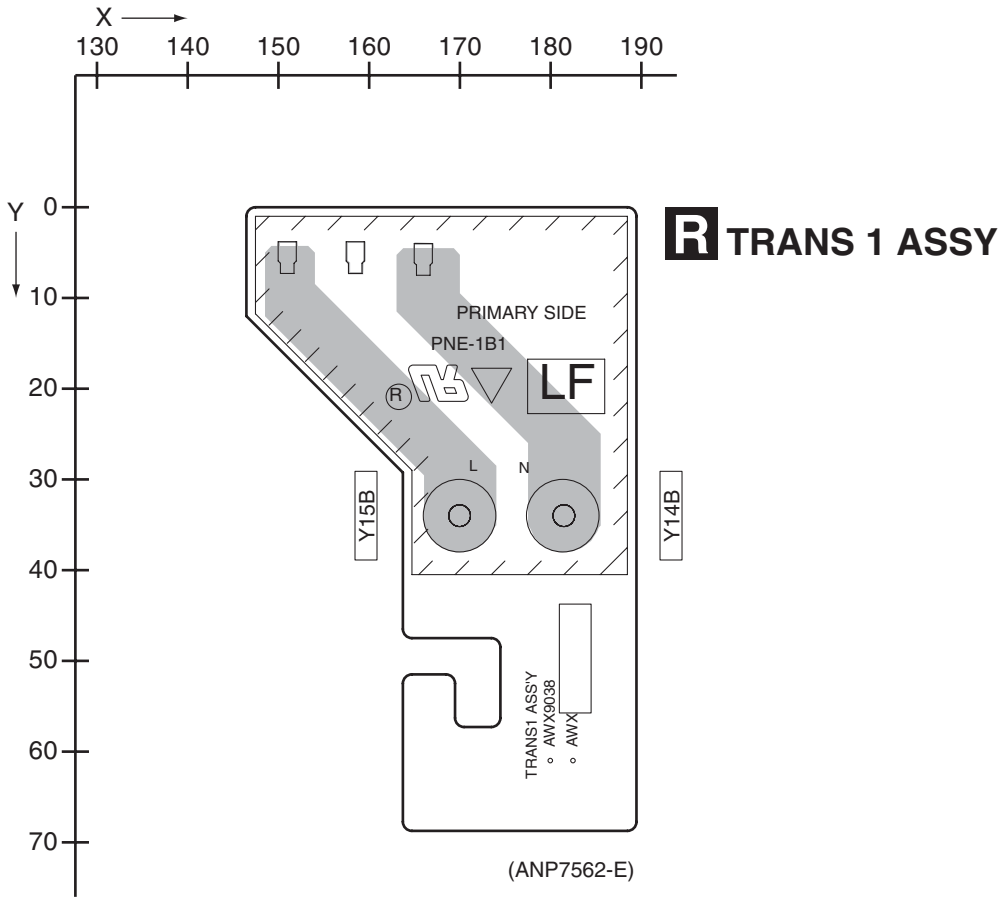
SIDE A

SIDE A

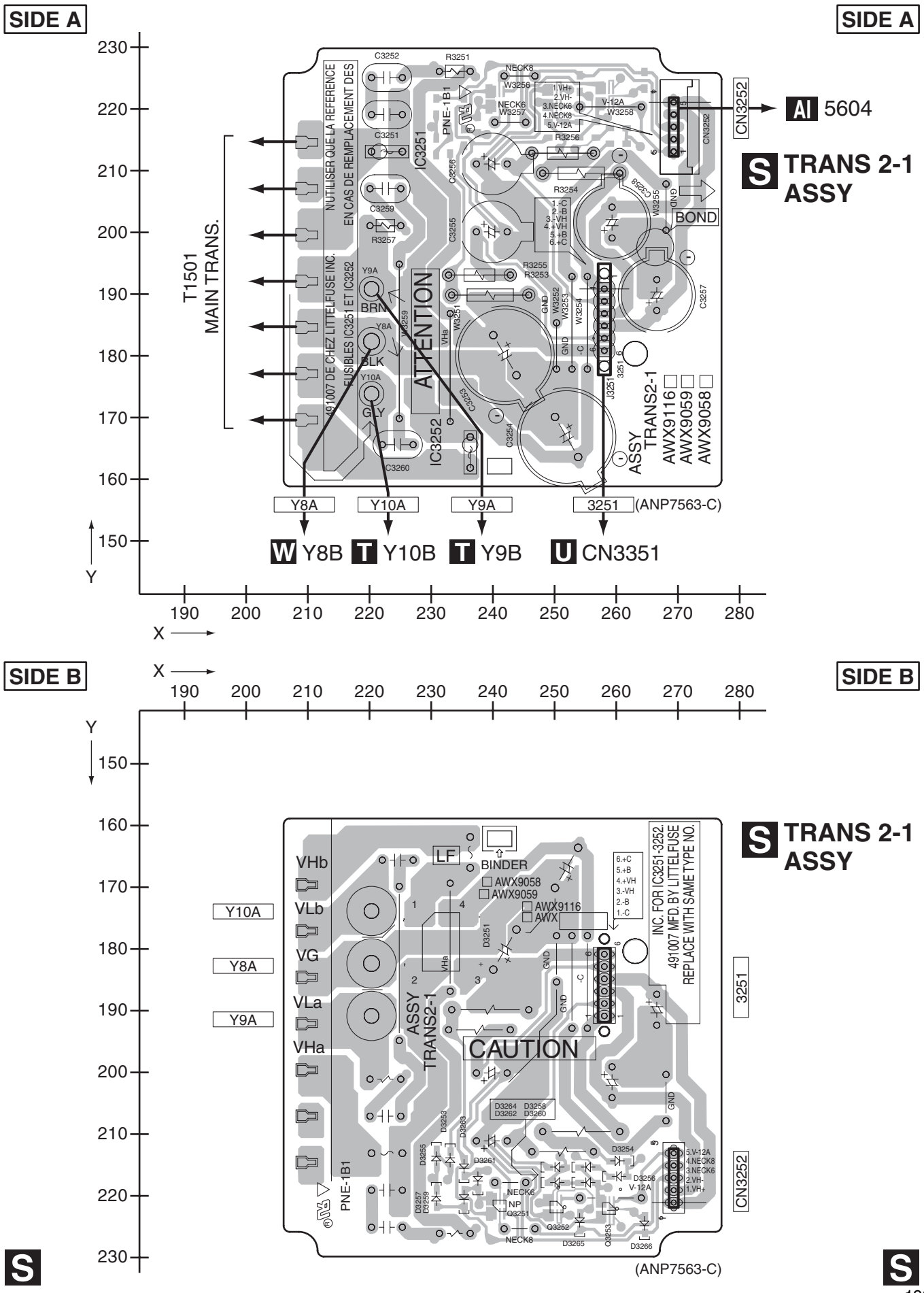


SIDE B

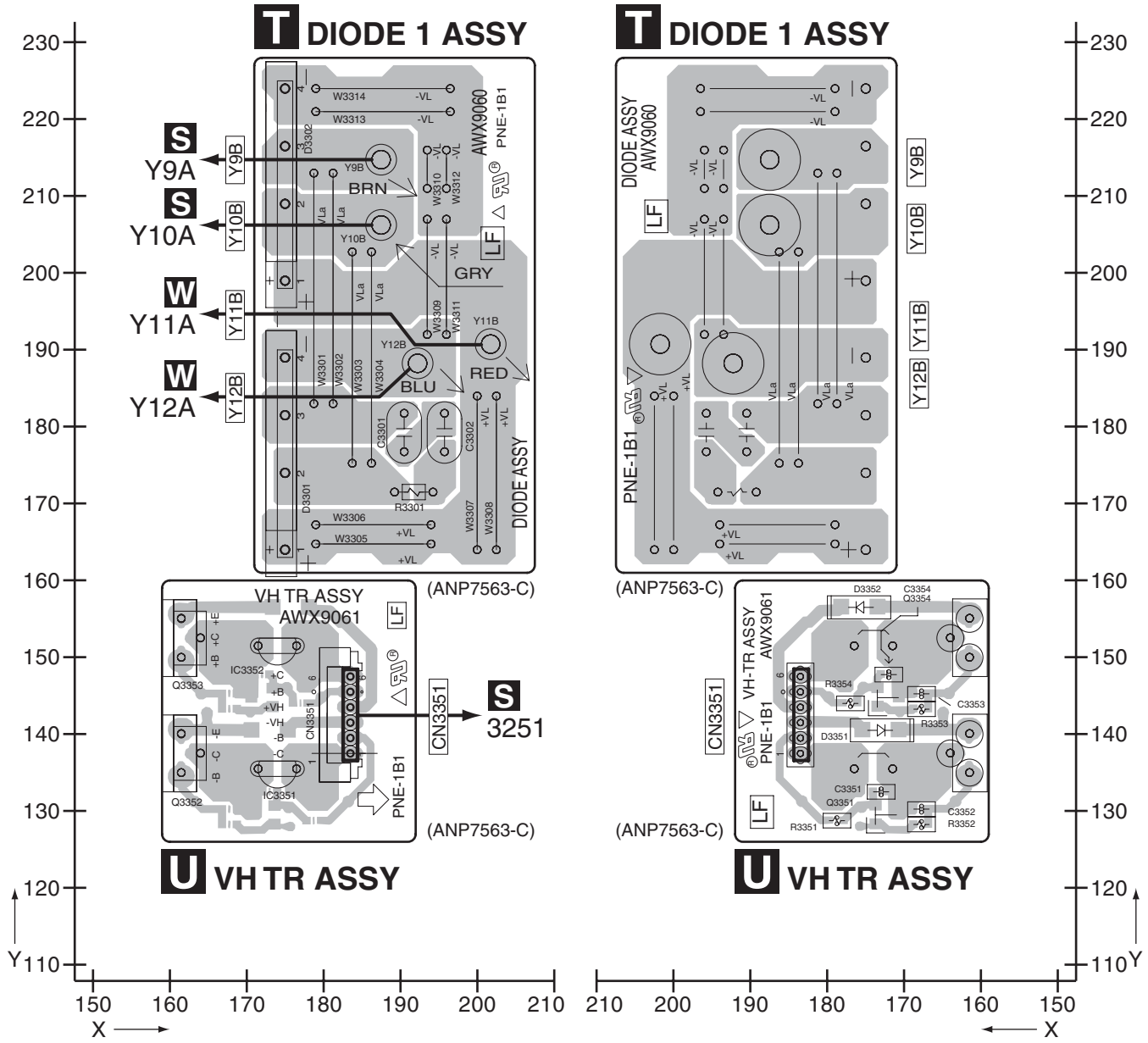
SIDE B



11.16 TRANS 2-1 ASSY



11.17 DIODE 1 and VH TR ASSYS

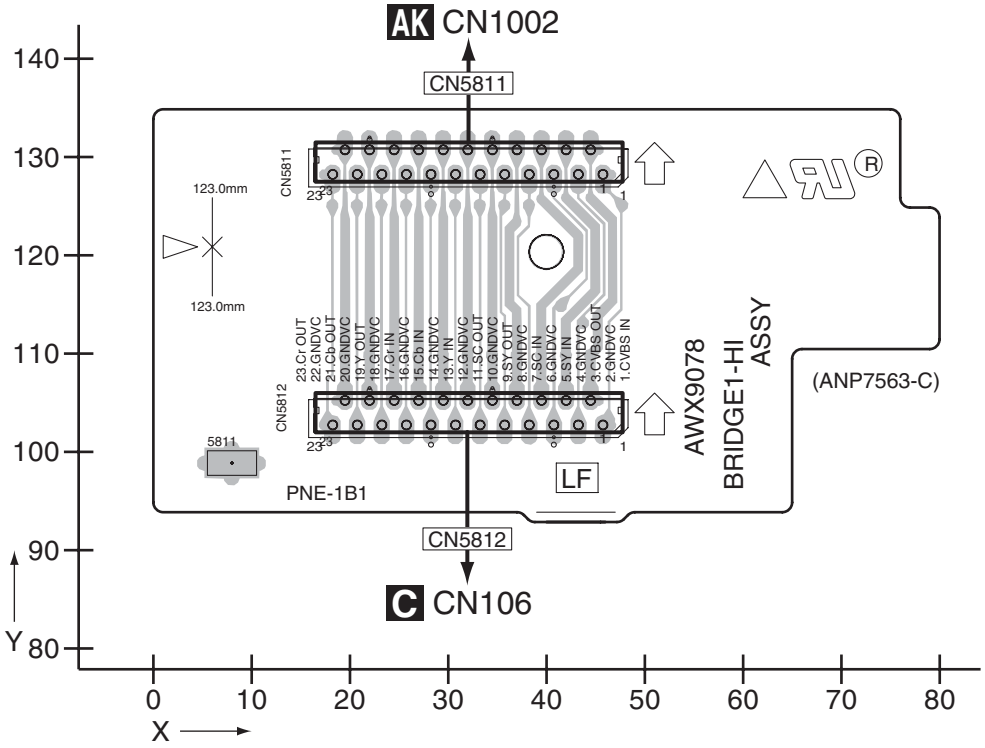


11.18 BRIDGE 1 ASSY

SIDE A

SIDE A

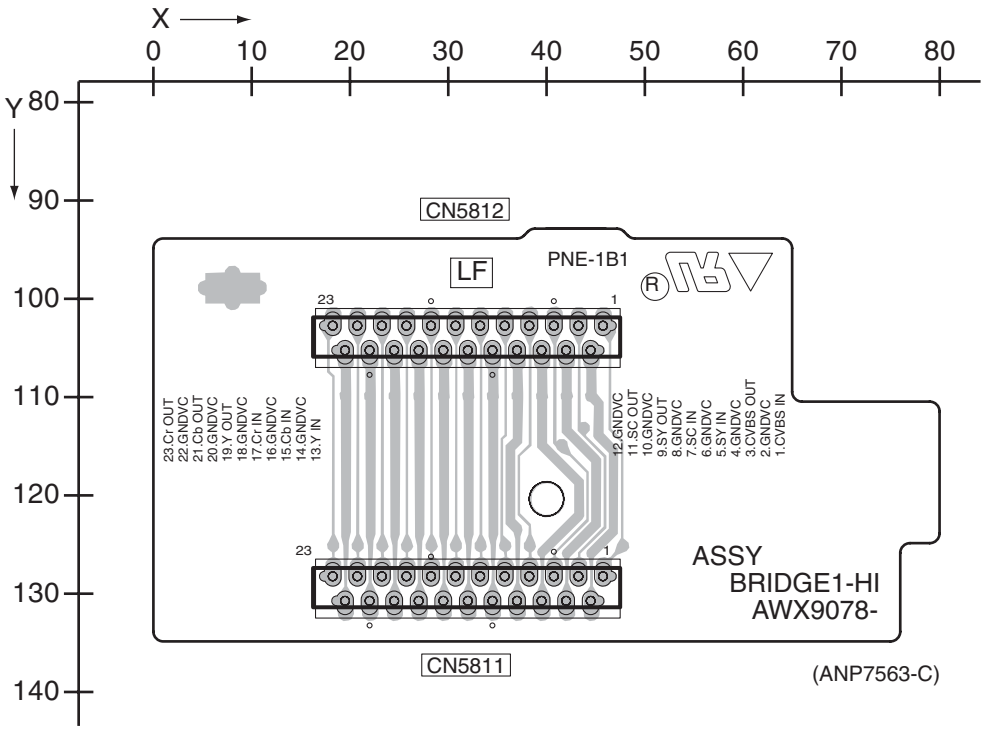
V BRIDGE 1 ASSY



SIDE B

SIDE B

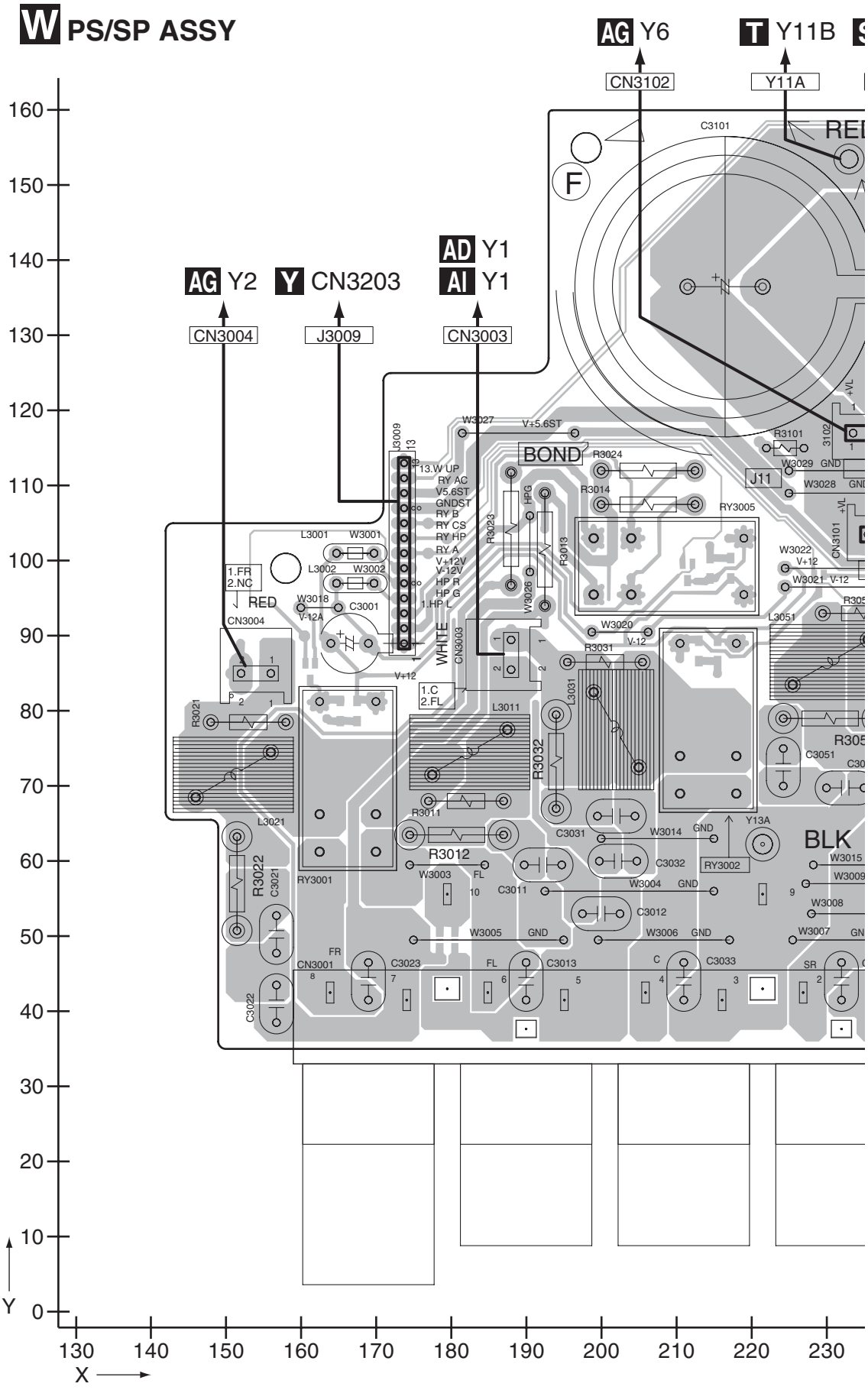
V BRIDGE 1 ASSY

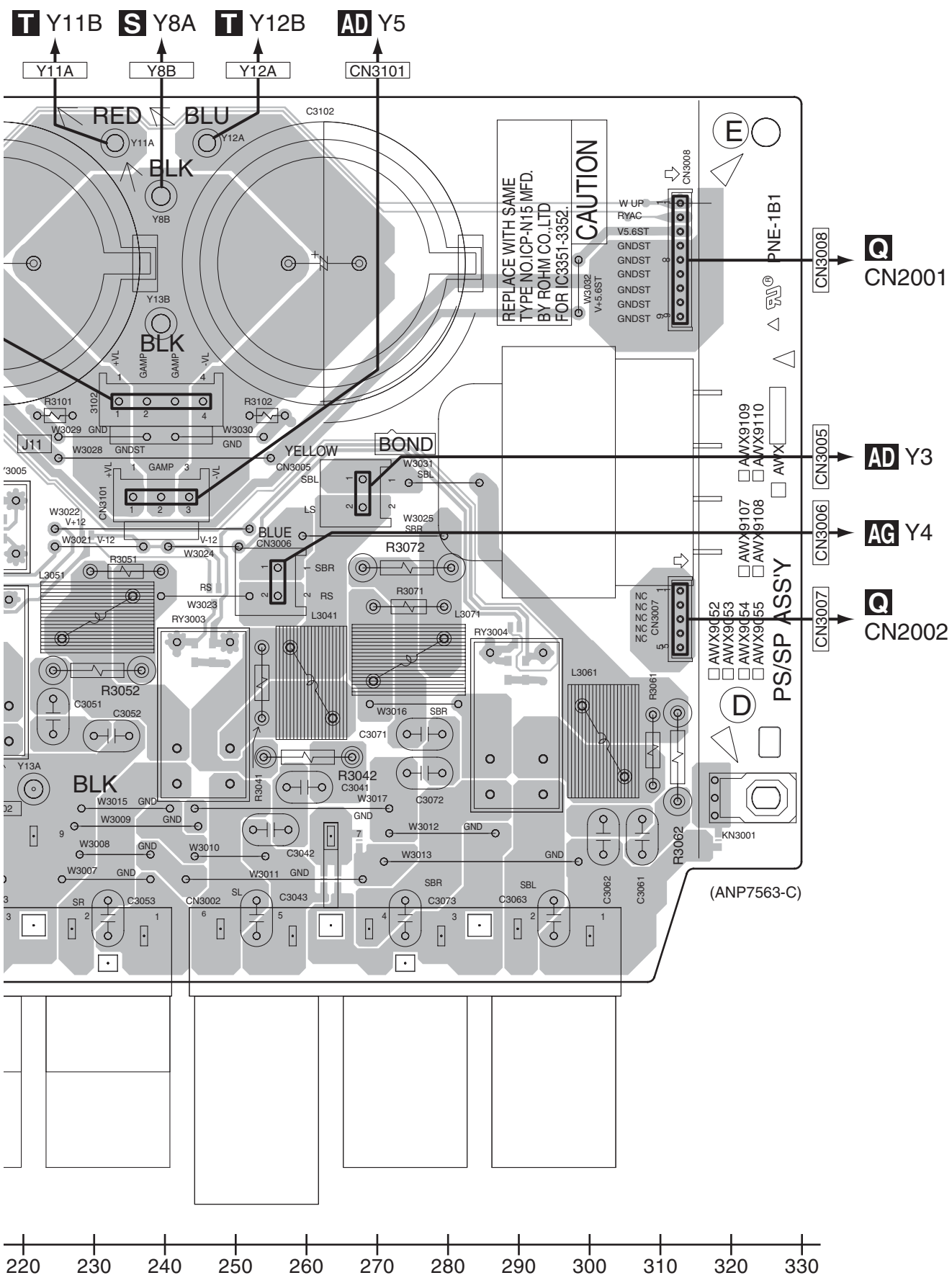


V **V**

11.19 PS/SP ASSY

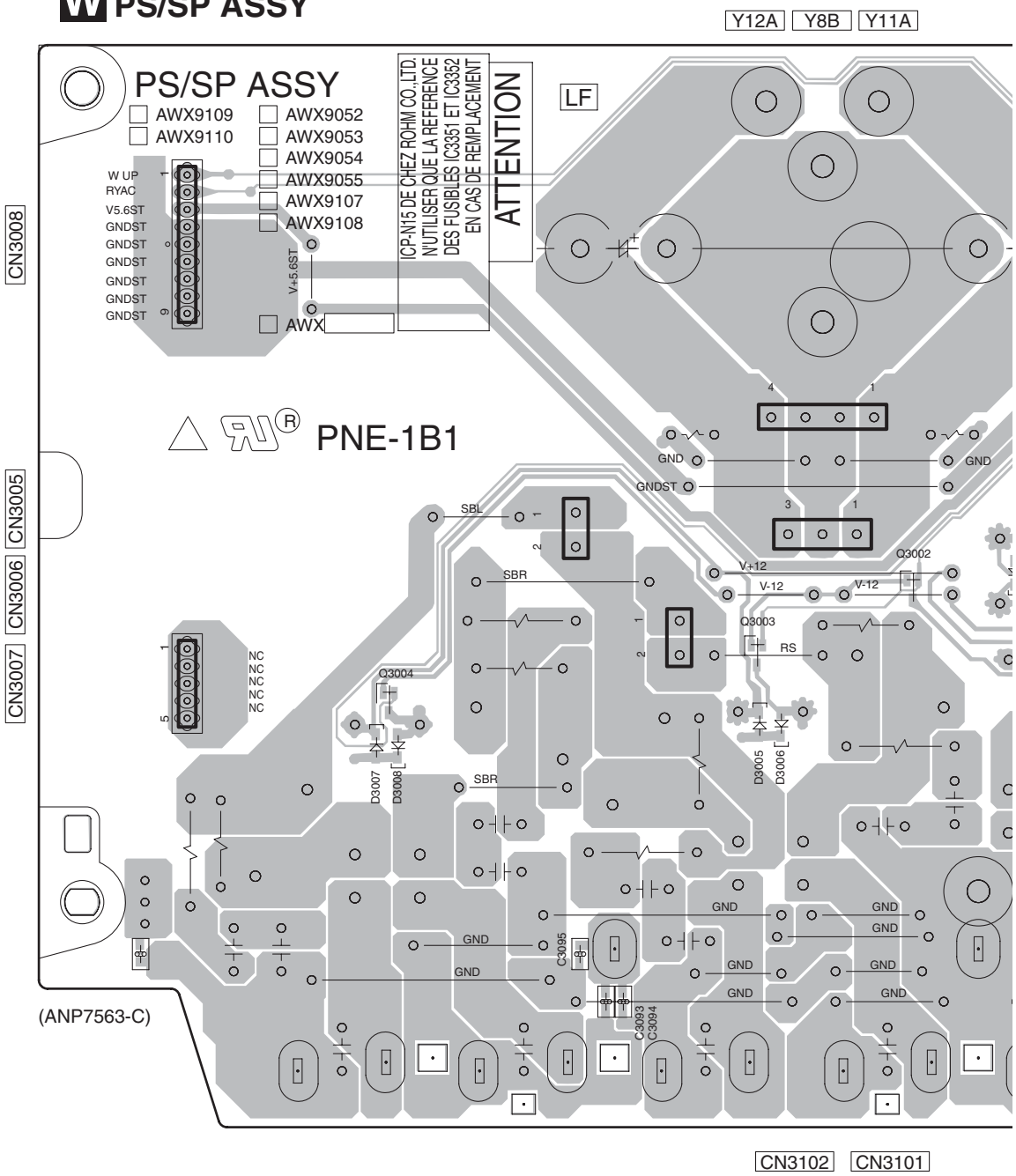
SIDE A




T Y11B
S Y8A
T Y12B
AD Y5
Y11A
Y8B
Y12A
CN3101
RED
BLU
BLK
BLK
YELLOW
BOND
BLUE
BLK
CAUTION
REPLACE WITH SAME TYPE NO.ICP-N15 MFD. BY ROHM CO.,LTD FOR IC3351-3352.
CN3008
CN3005
CN3006
CN3007
PNE-1B1
PS/SP ASS'Y
Q CN2001
AD Y3
AG Y4
Q CN2002
(ANP7563-C)
220
230
240
250
260
270
280
290
300
310
320
330

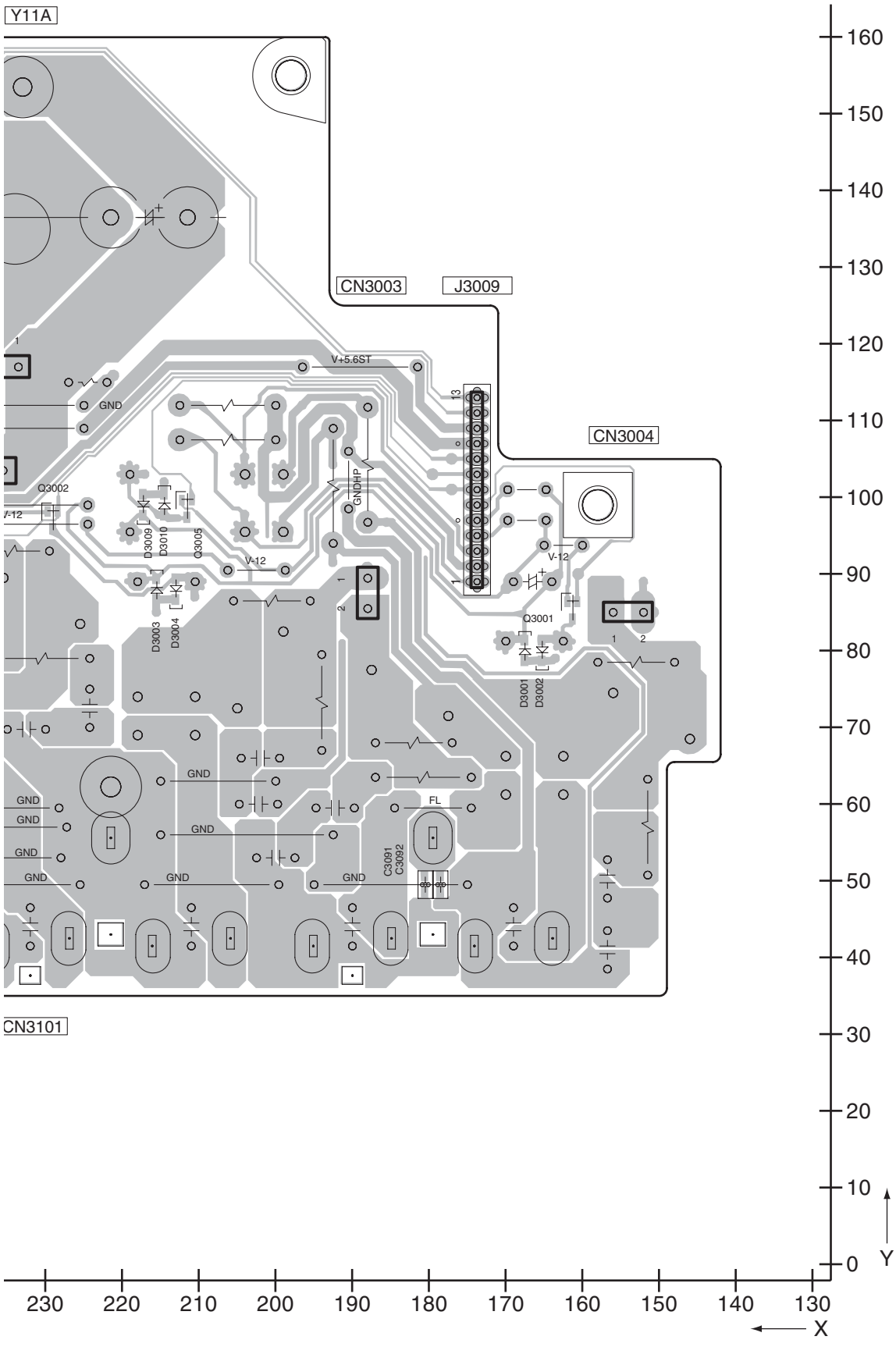
SIDE B

W PS/SP ASSY



330 320 310 300 290 280 270 260 250 240 230 220

SIDE B


Y11A
CN3003
J3009
CN3004
CN3101
V+5.6ST
GND
GNDHP
V-12
Q3002
Q3001
D3009
D3010
Q3005
D3003
D3004
D3001
D3002
FL
C3091
C3092
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
230
220
210
200
190
180
170
160
150
140
130
X

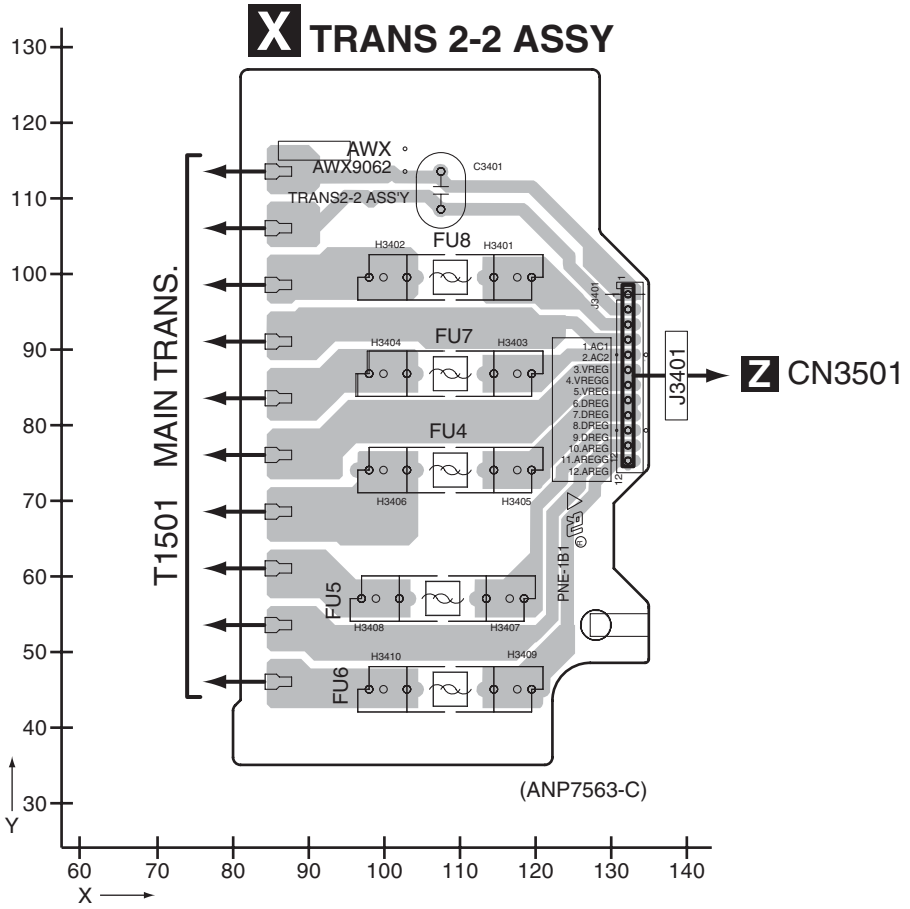
5 6 7 8

11.20 TRANS 2-2 ASSY

SIDE A

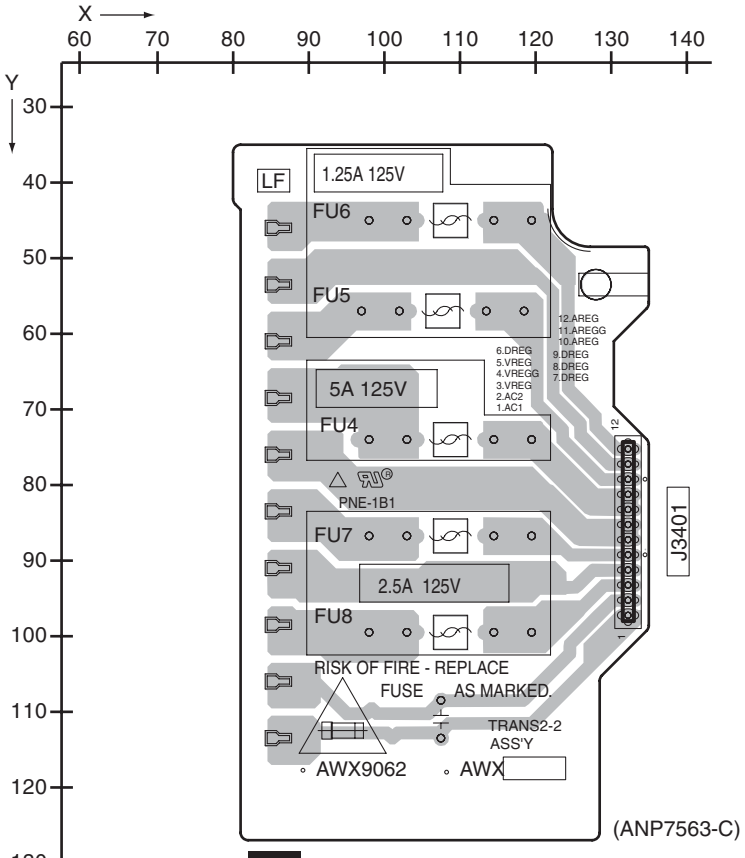
SIDE A

X TRANS 2-2 ASSY



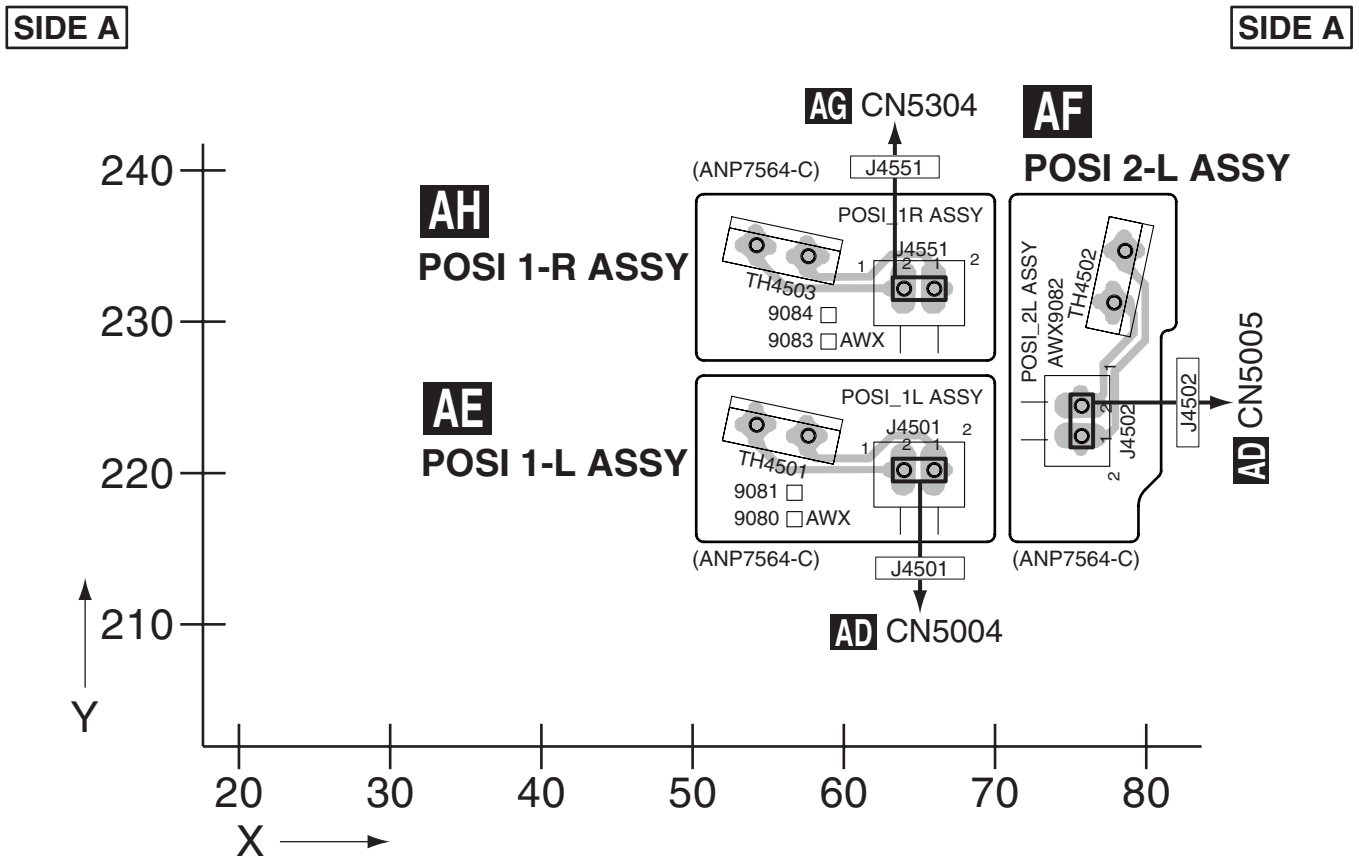
SIDE B

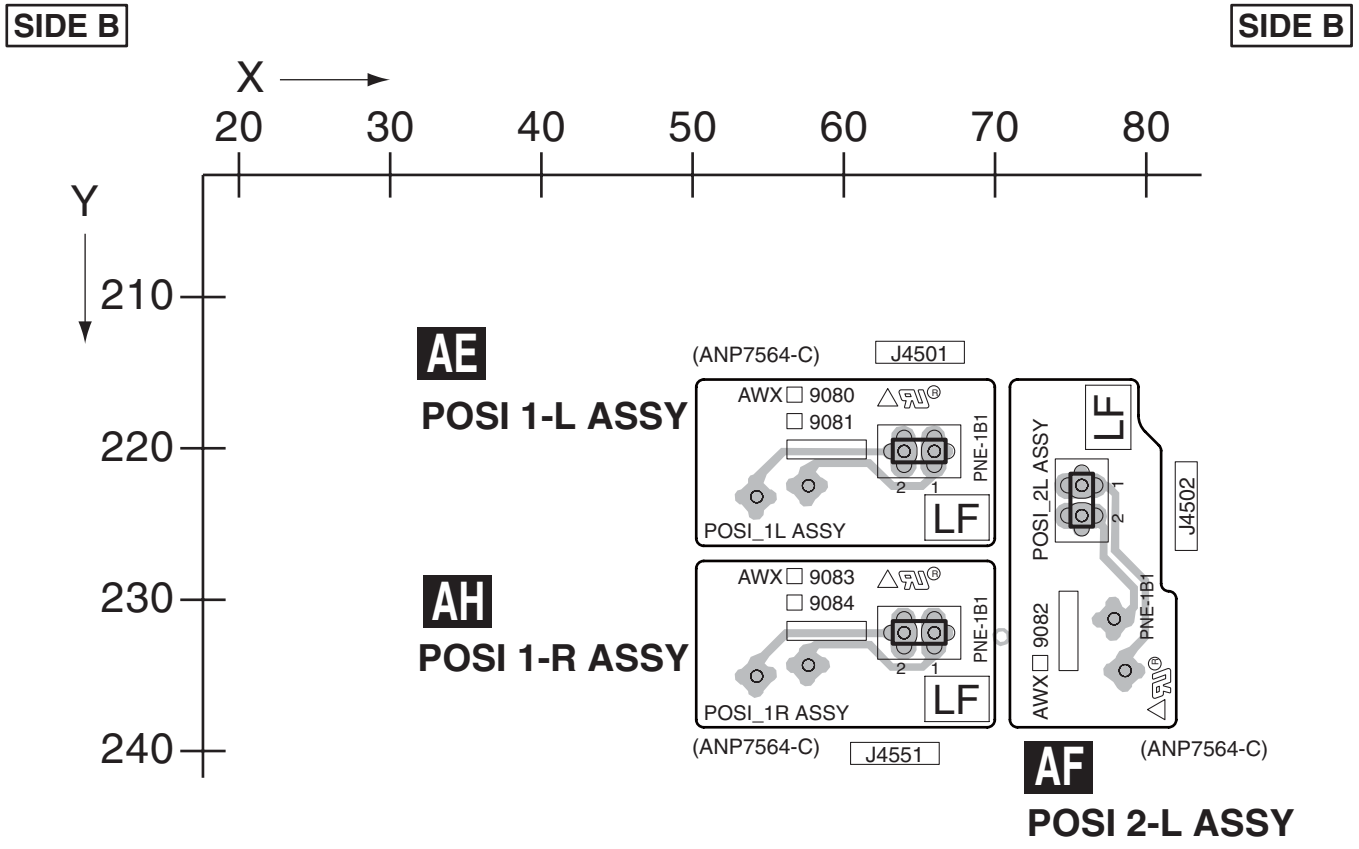
SIDE B



X TRANS 2-2 ASSY

11.21 POSI 1-L, POSI 2-L and POSI 1-R ASSYS





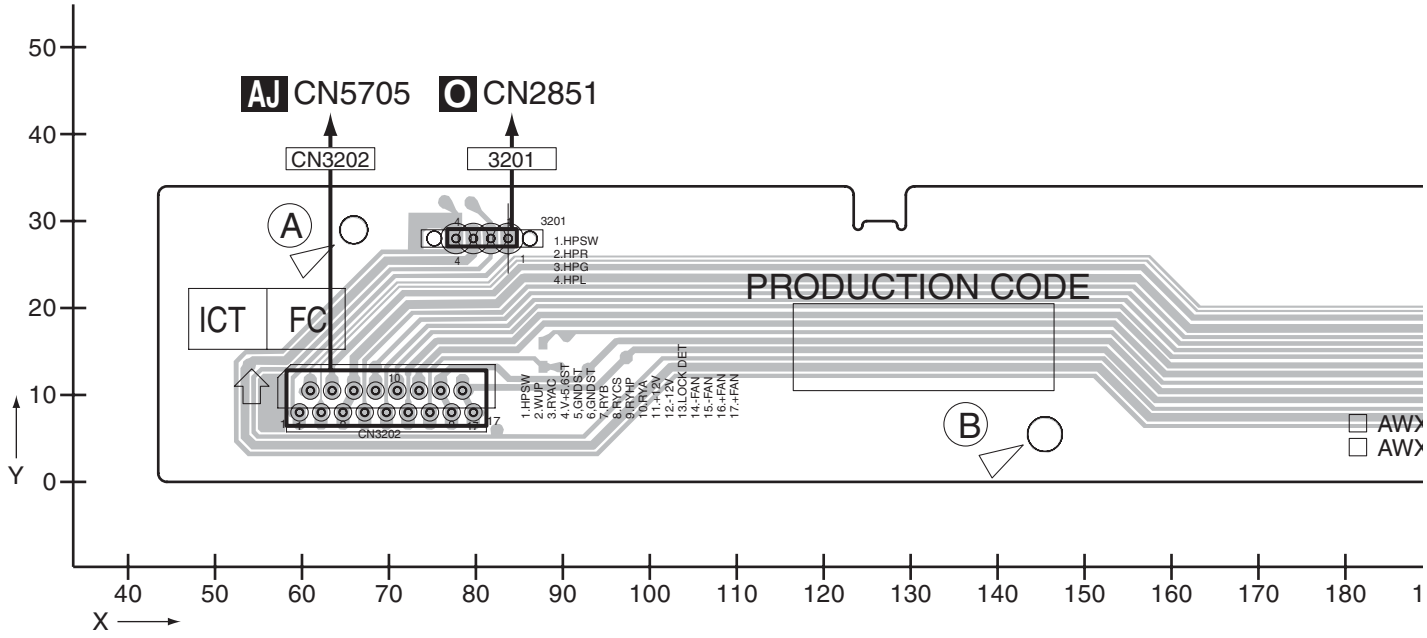
AE AF AH

AE AF AH

11.22 TRANS SIDE ASSY

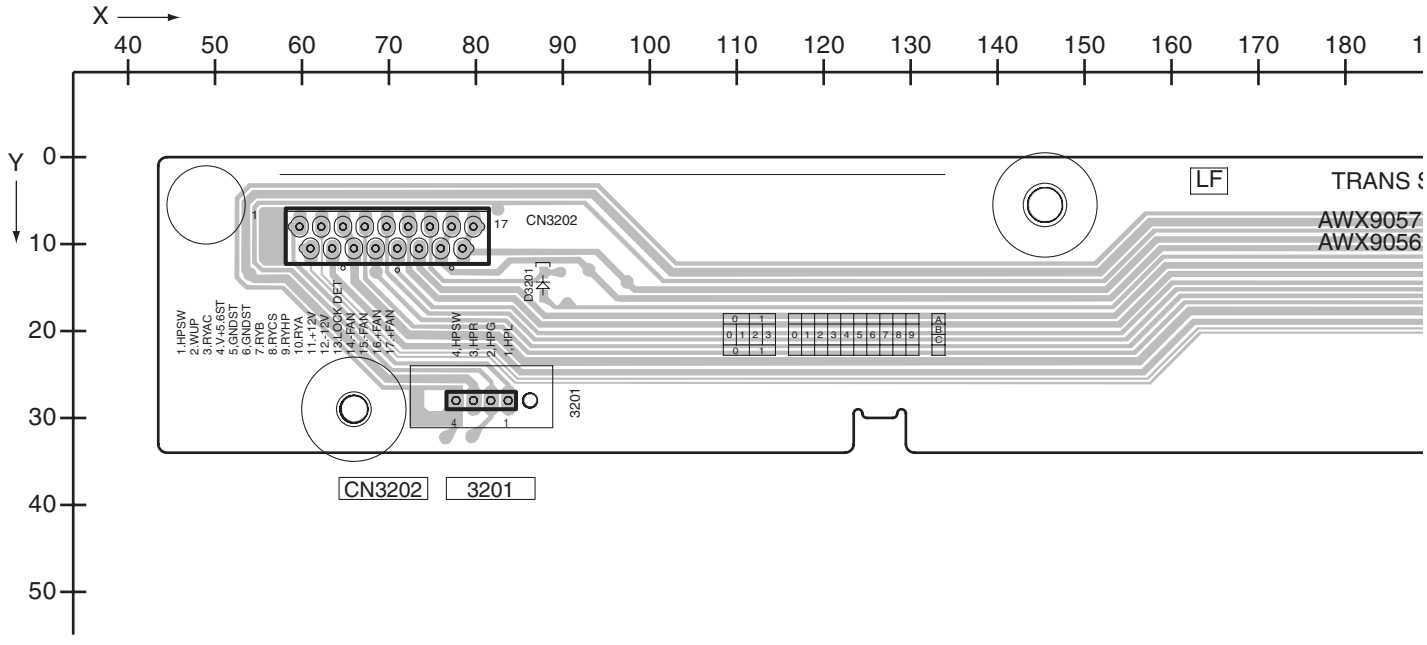
SIDE A

Y TRANS SIDE ASSY



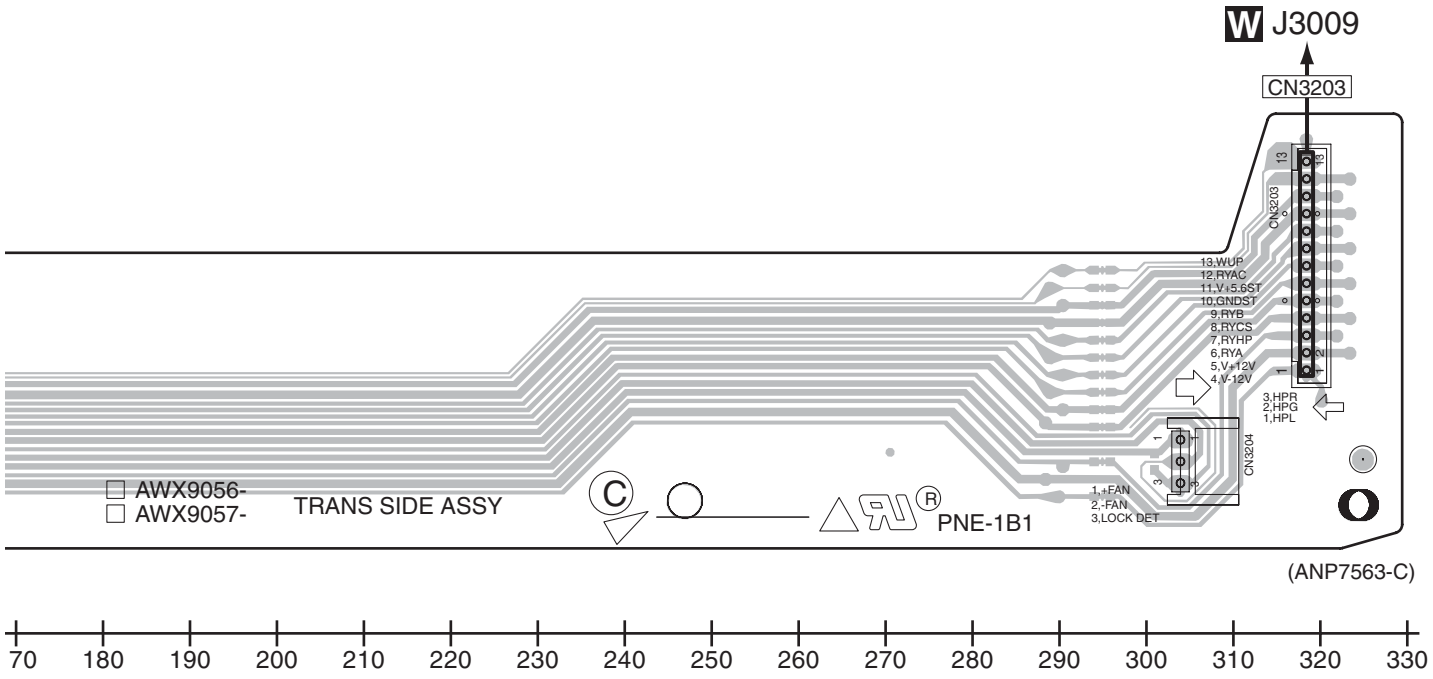
SIDE B

Y TRANS SIDE ASSY



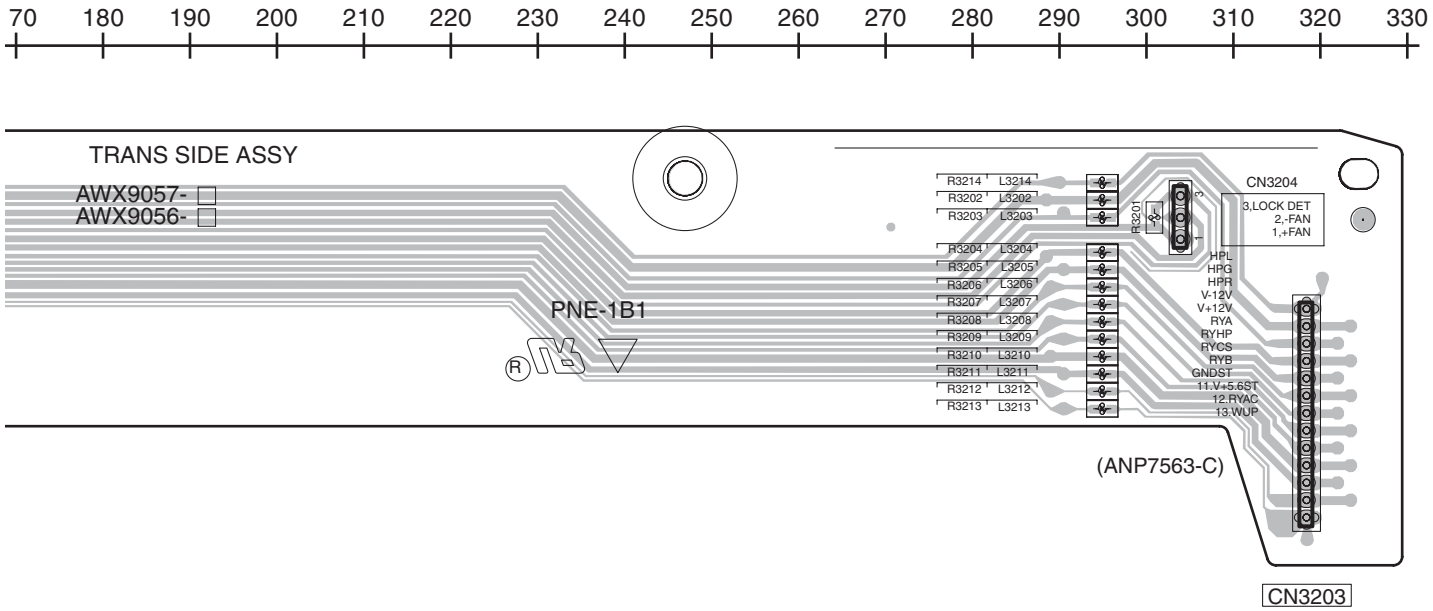
Y

SIDE A


W J3009
CN3203
13,WUP
12,RYAC
11,V+5.6ST
10,GNDST
9,RYB
8,RYCS
7,RYHP
6,RYA
5,V+12V
4,V-12V
3,HPR
2,HPG
1,HPL
CN3204
1,+FAN
2,-FAN
3,LOCK DET
AWX9056-
AWX9057-
TRANS SIDE ASSY
PNE-1B1
(ANP7563-C)

70 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330

SIDE B

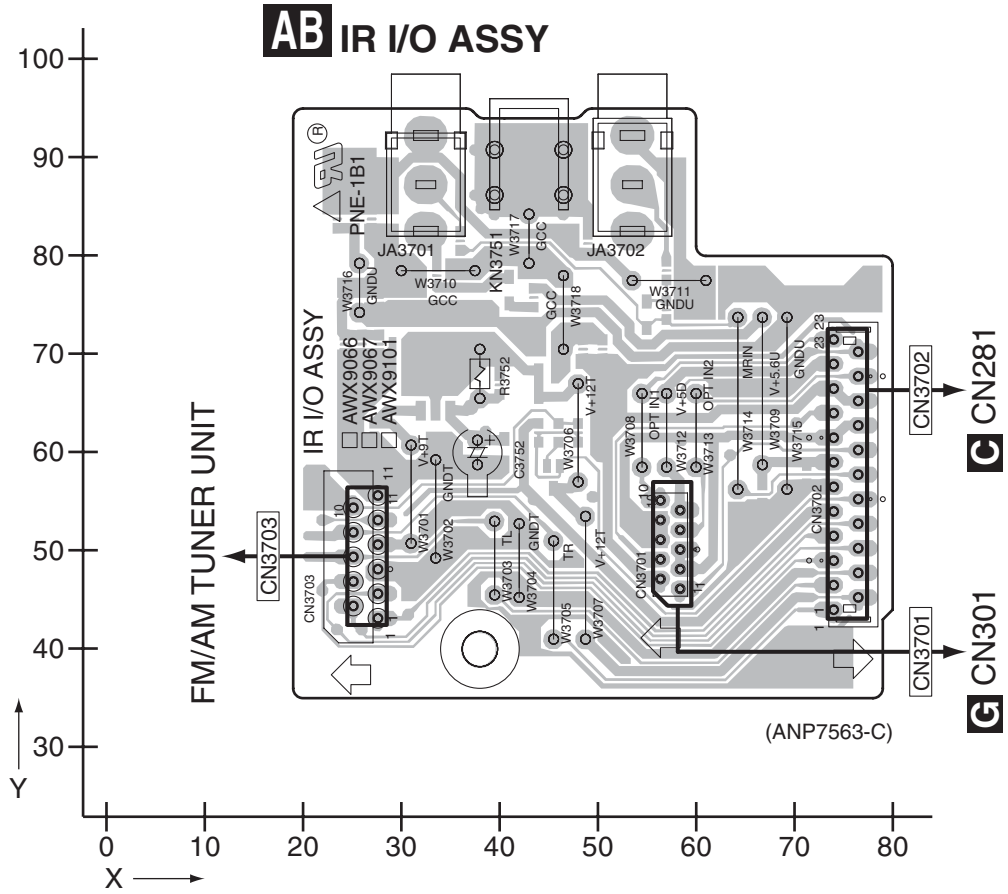

70 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330
TRANS SIDE ASSY
AWX9057-
AWX9056-
PNE-1B1
CN3204
3,LOCK DET
2,-FAN
1,+FAN
HPL
HPG
HPR
V-12V
V+12V
RYA
RYHP
RYCS
RYB
GNDST
11,V+5.6ST
12,RYAC
13,WUP
(ANP7563-C)
CN3203

11.23 IR I/O ASSY

SIDE A

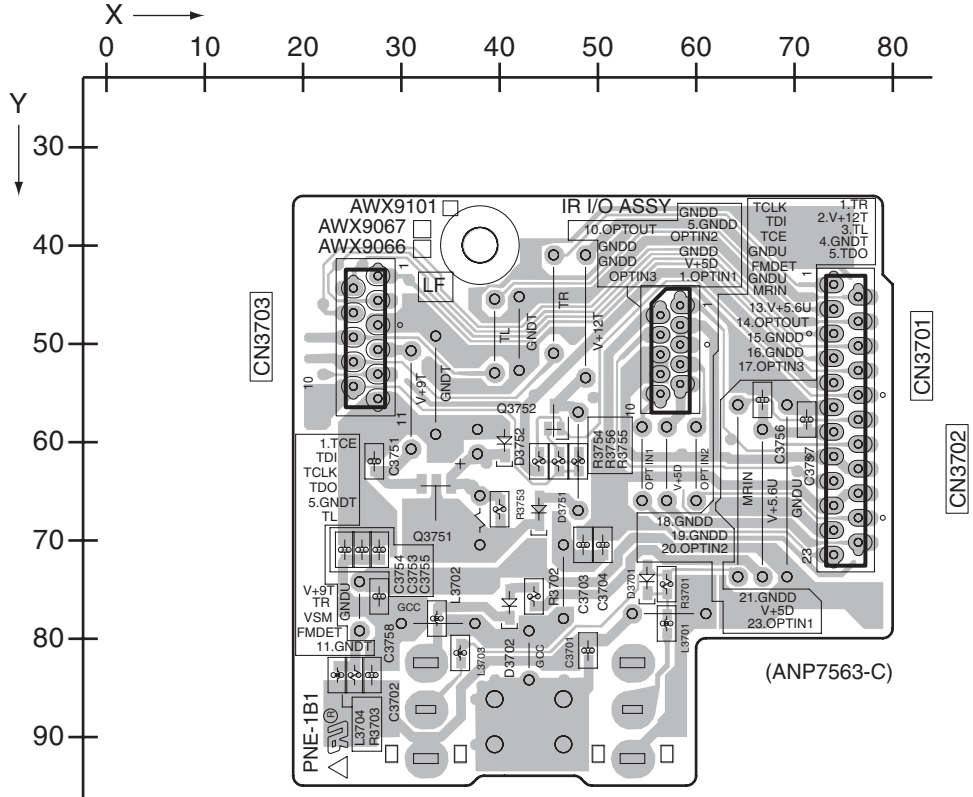
SIDE A

AB IR I/O ASSY



SIDE B

SIDE B



AB IR I/O ASSY

AB

AB

A

B

C

D

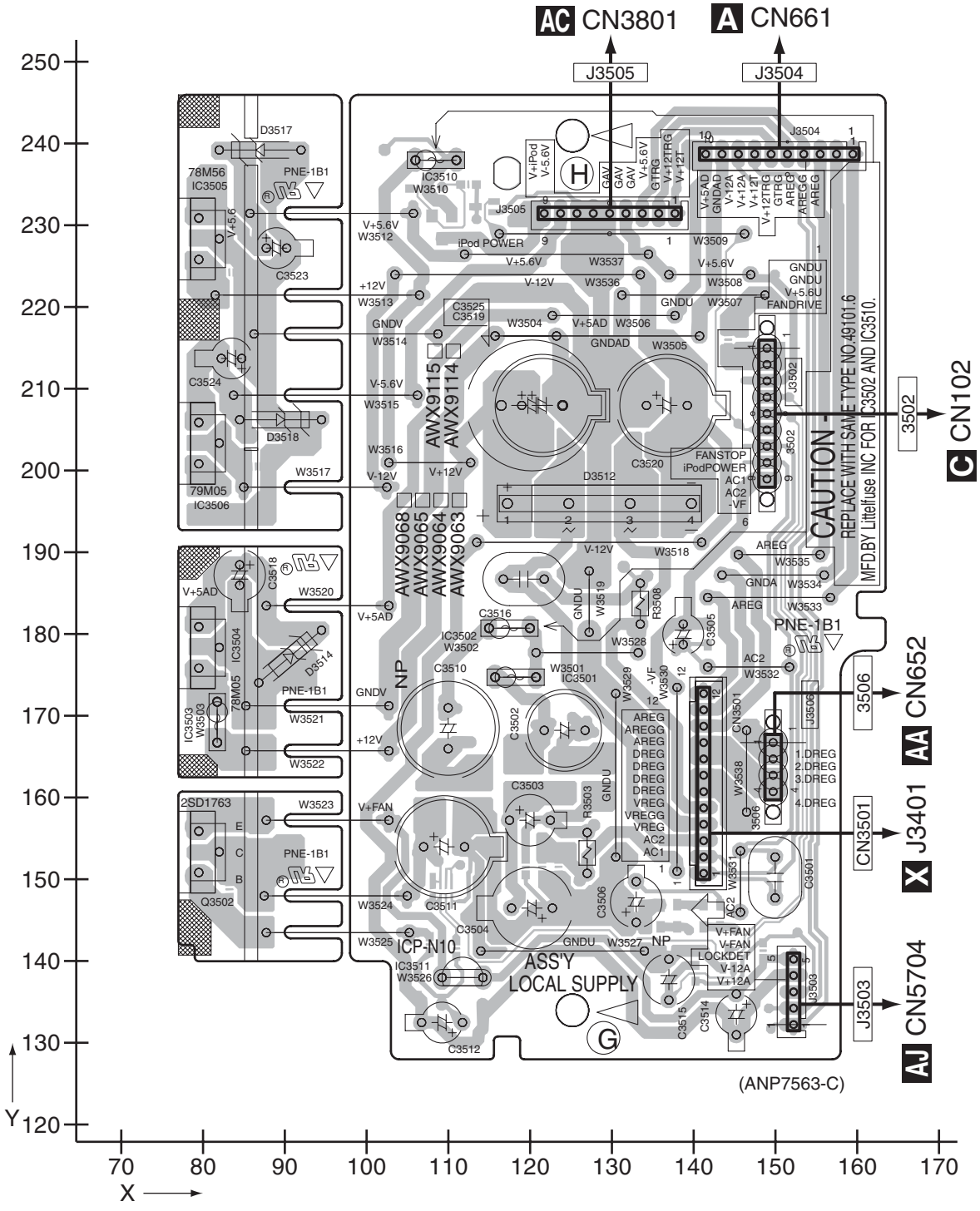
E

F

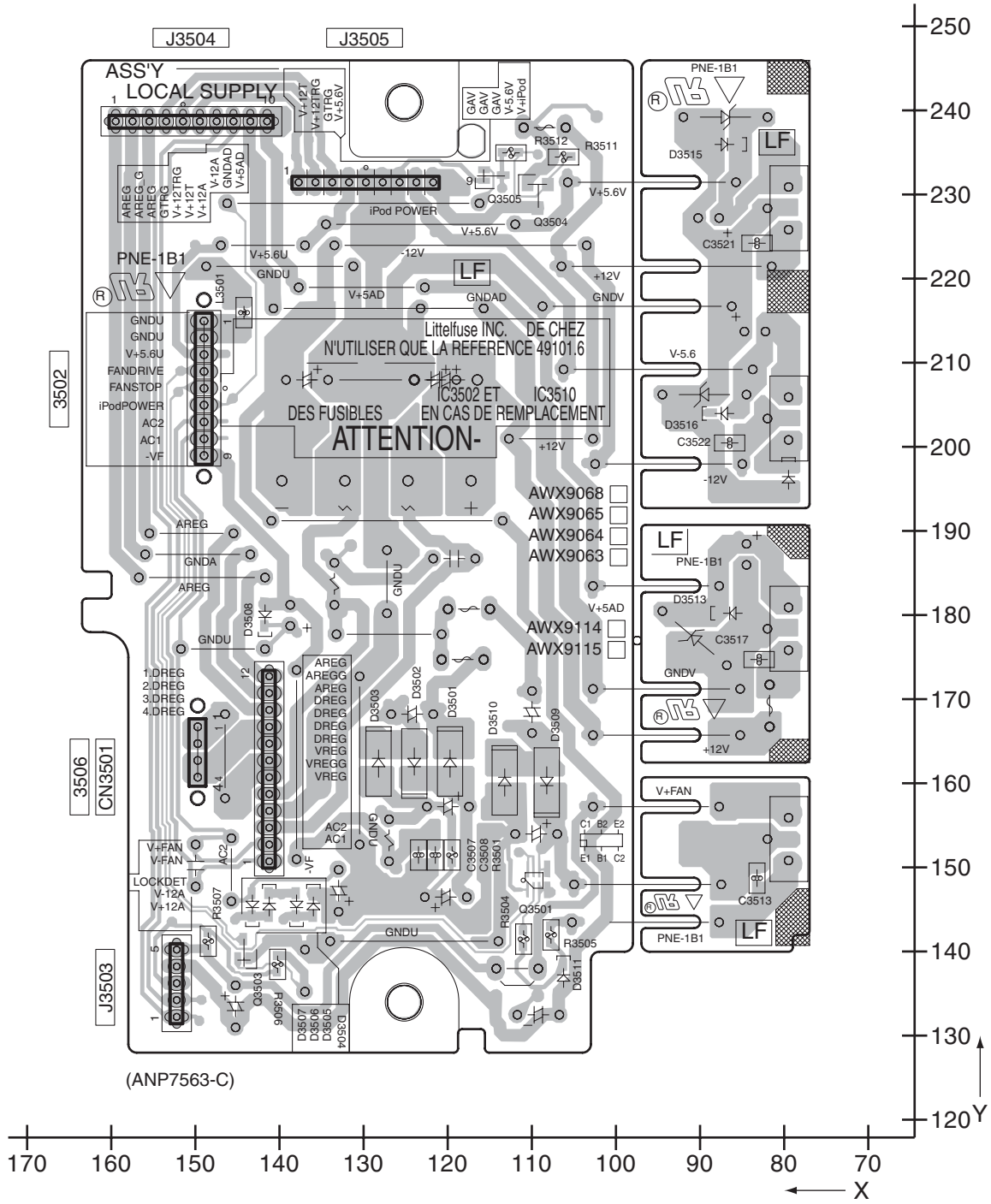
11.24 LOCAL P-SUPPLY ASSY

SIDE A **SIDE A**

Z LOCAL P-SUPPLY ASSY



Z LOCAL P-SUPPLY ASSY

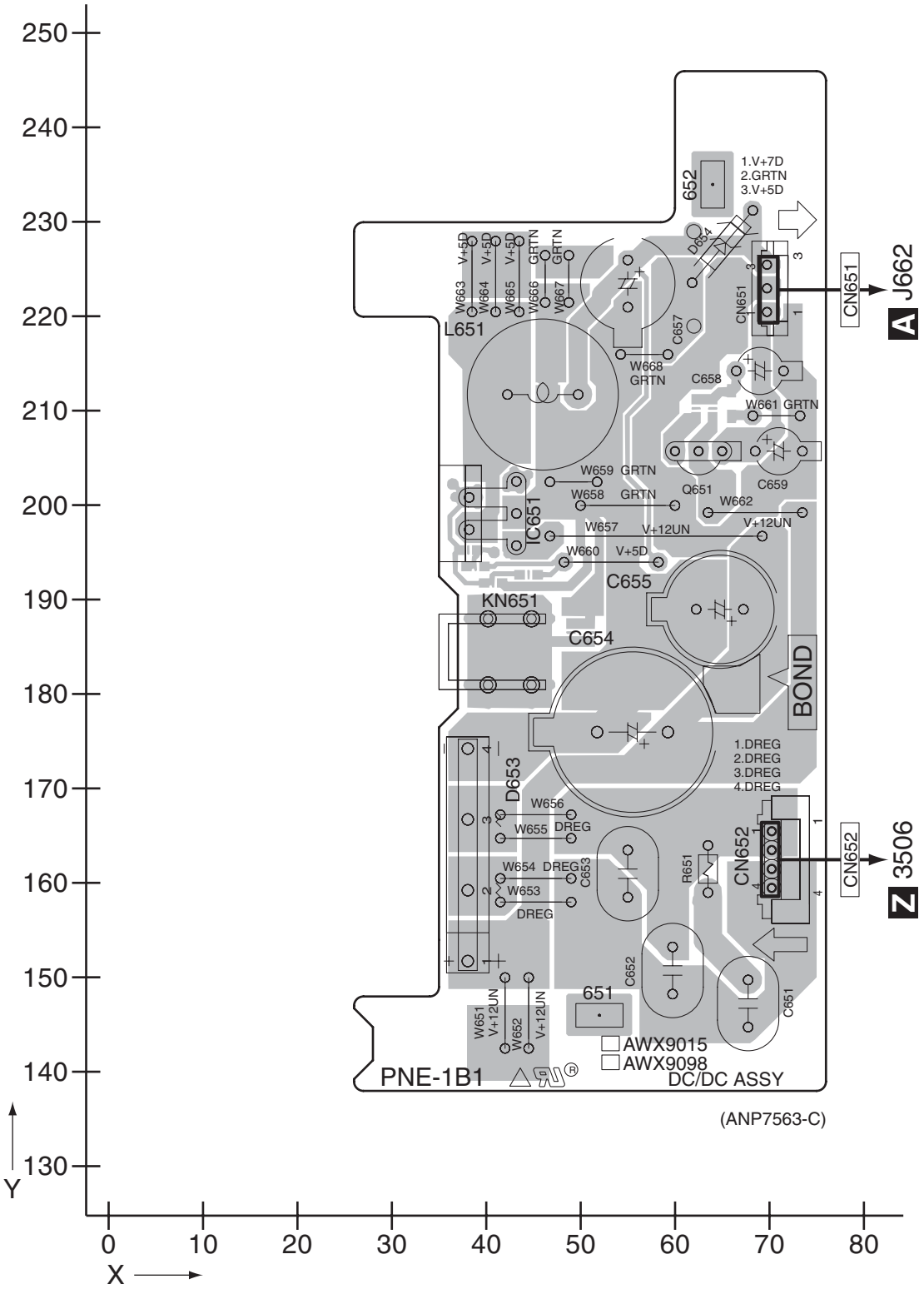


11.25 DC/DC ASSY

SIDE A

SIDE A

AA DC/DC ASSY



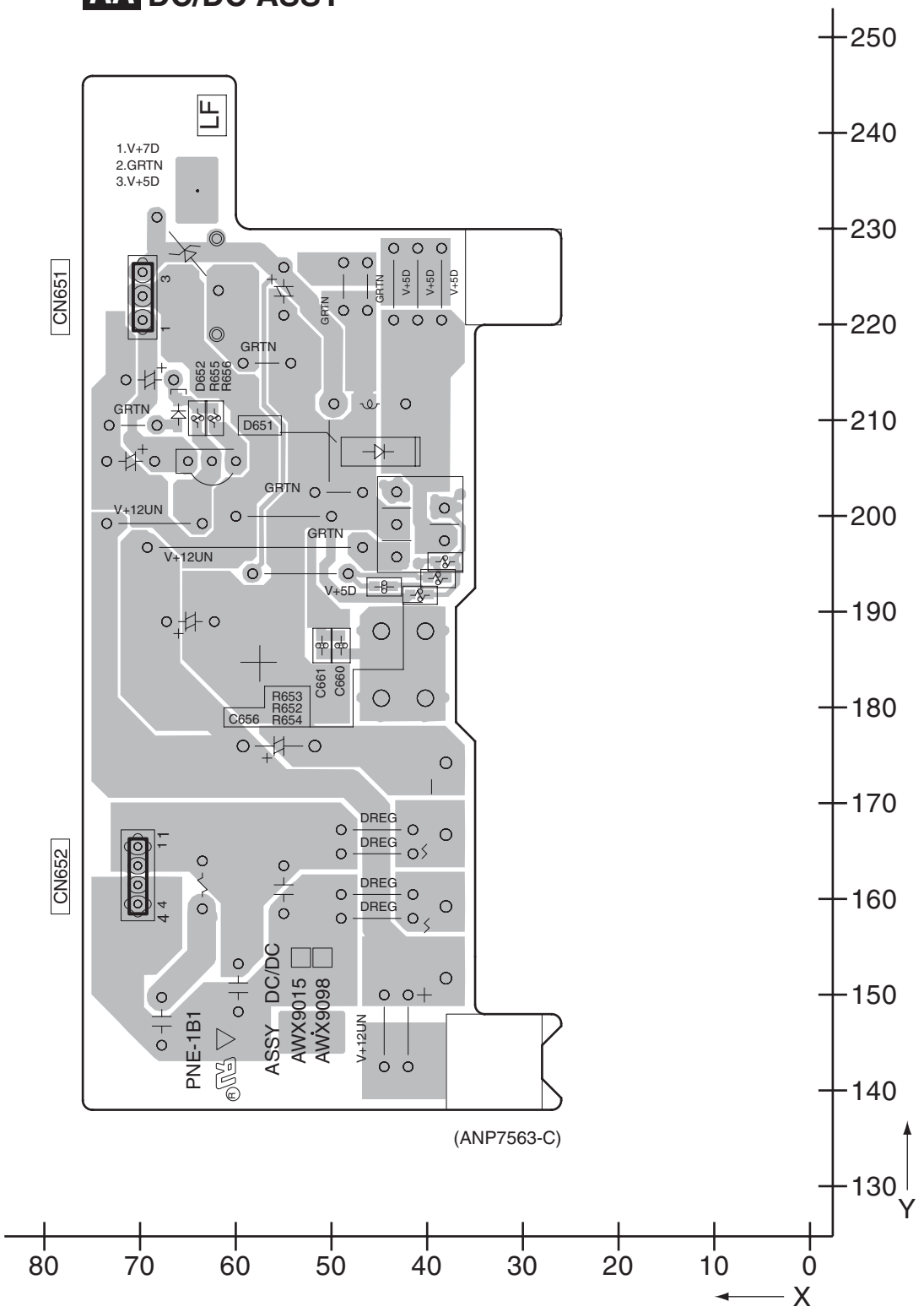
AA

AA

SIDE B

SIDE B

AA DC/DC ASSY



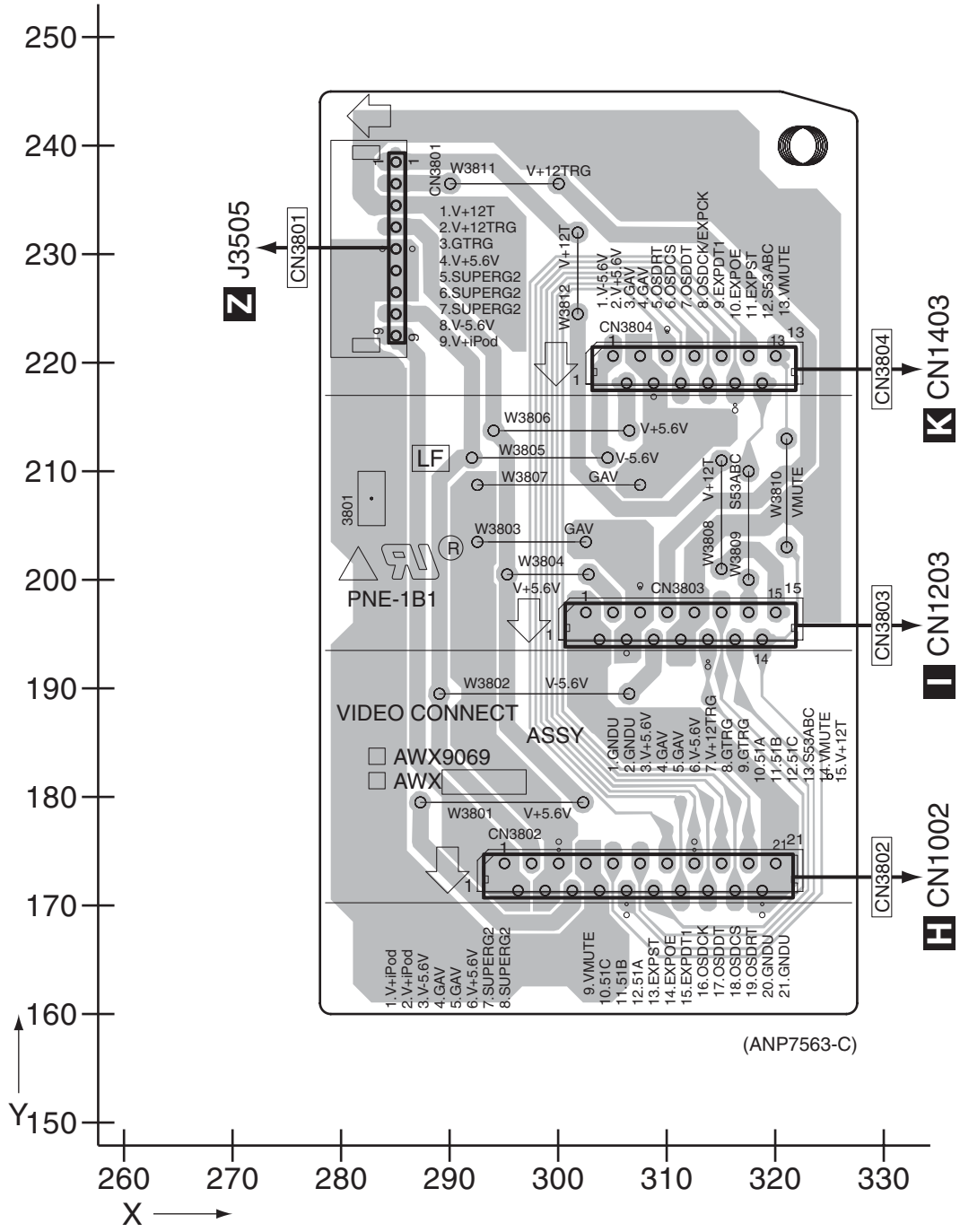
AA

AA

11.26 VIDEO CONNECT ASSY

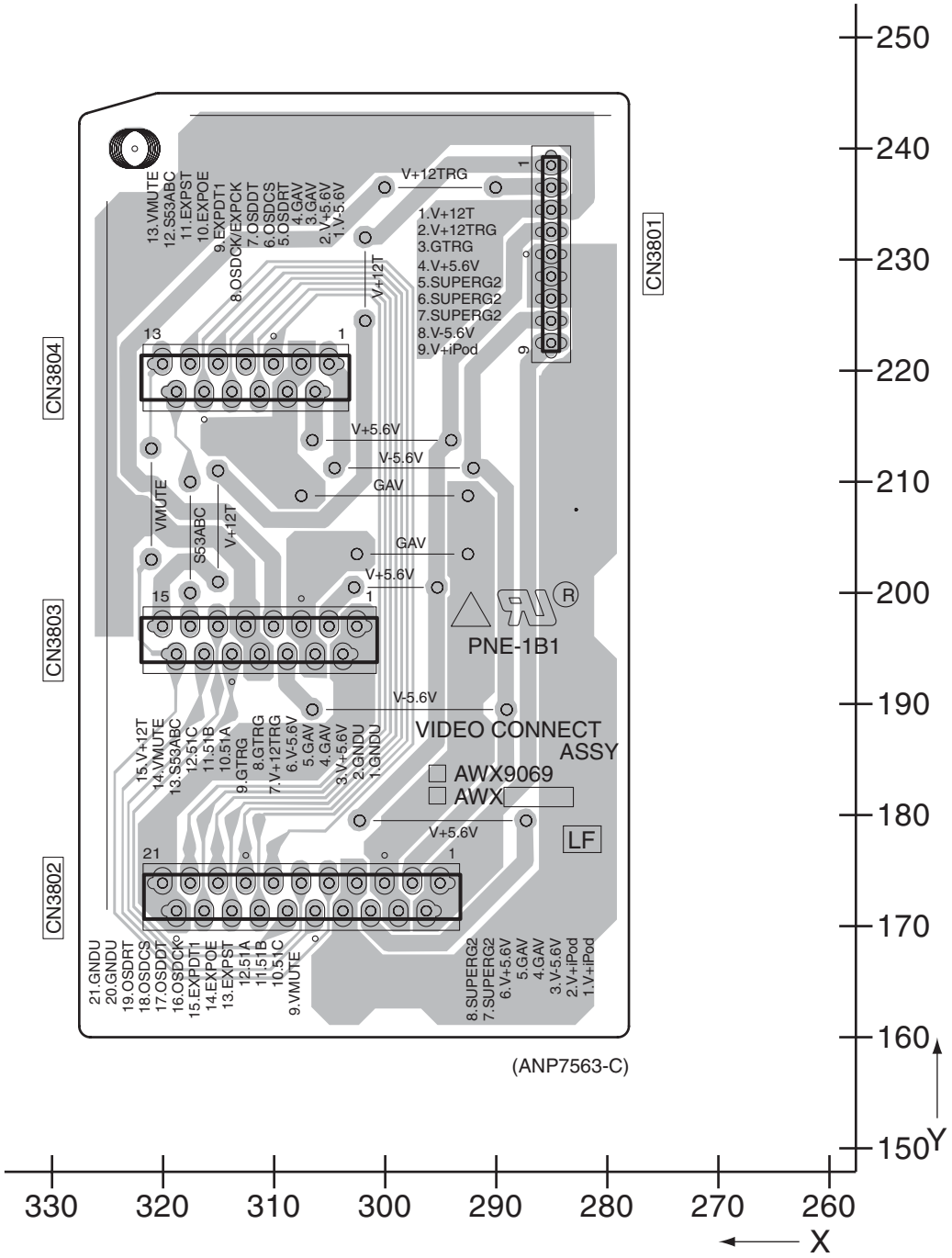
SIDE A **SIDE A**

AC VIDEO CONNECT ASSY



SIDE B

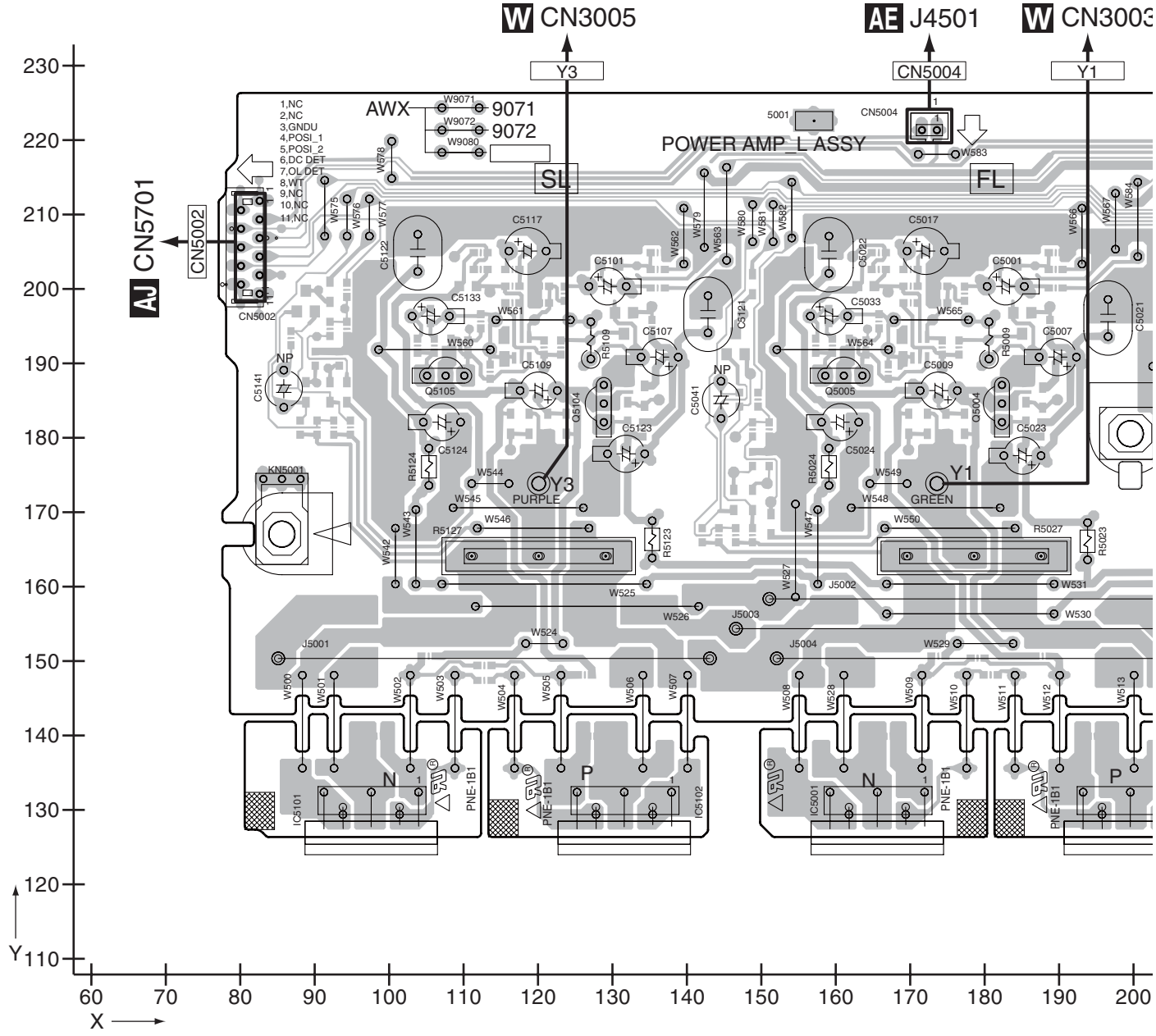
AC VIDEO CONNECT ASSY



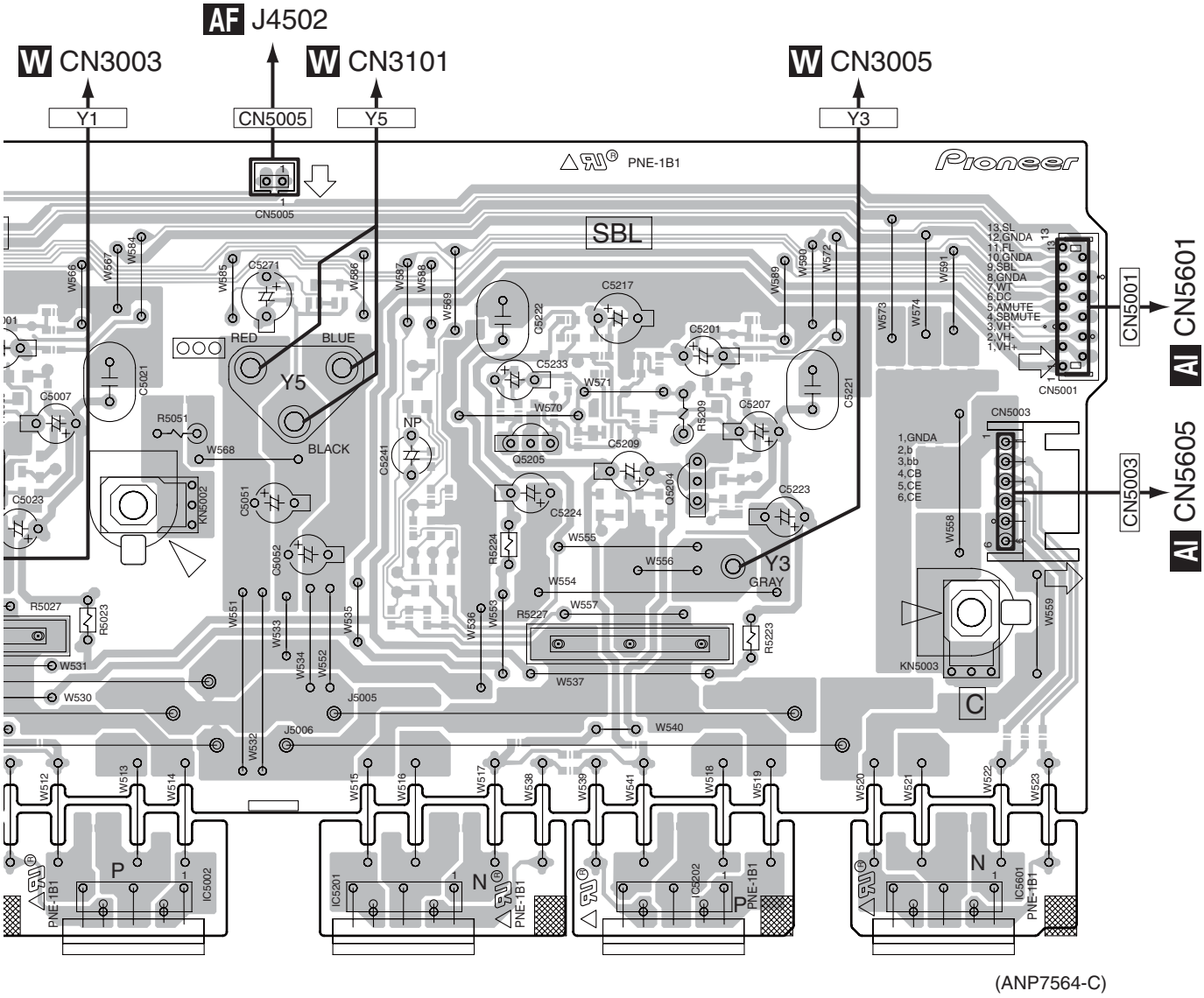
11.27 POWER AMP-L ASSY

SIDE A

AD POWER AMP-L ASSY

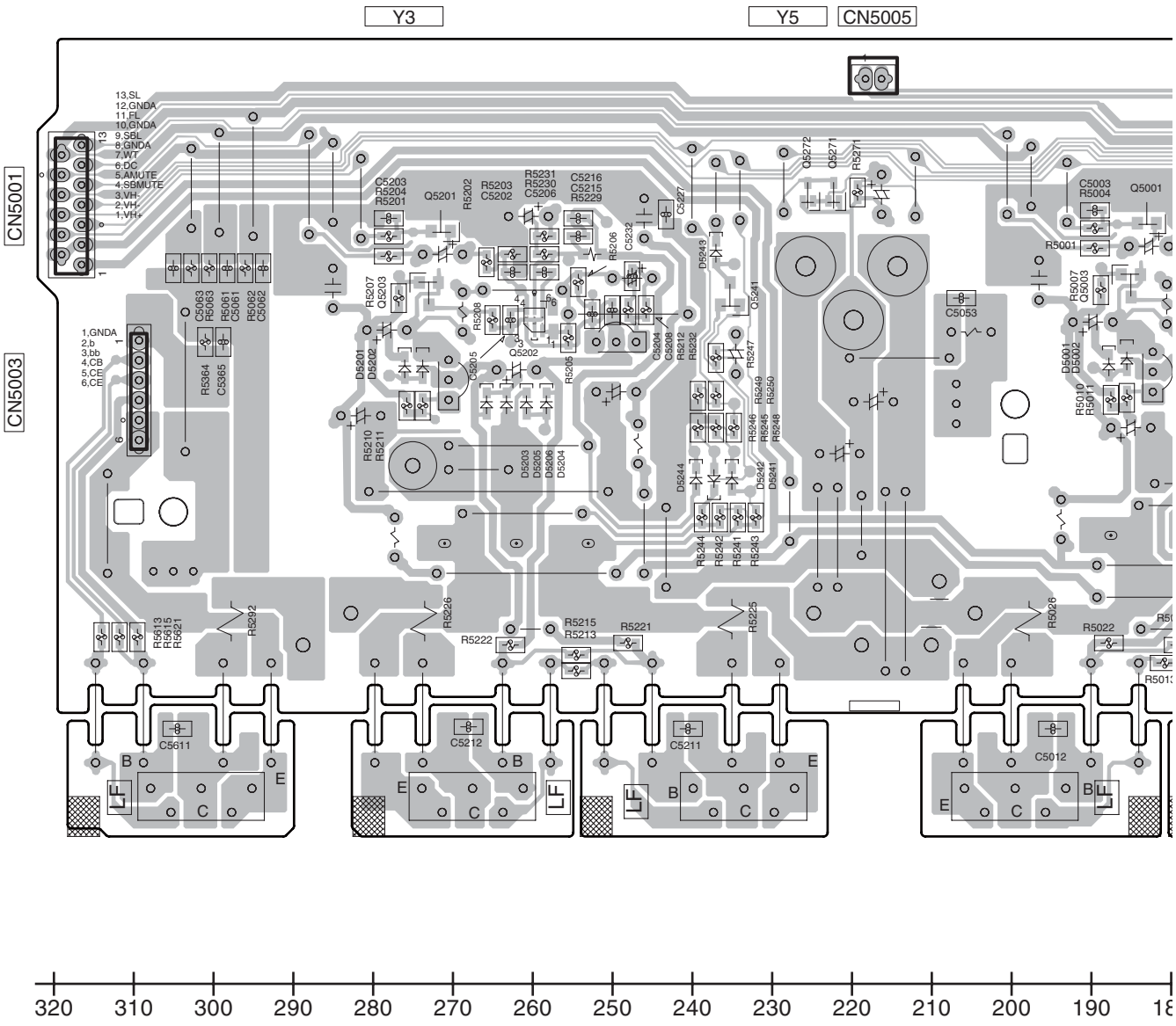


SIDE A

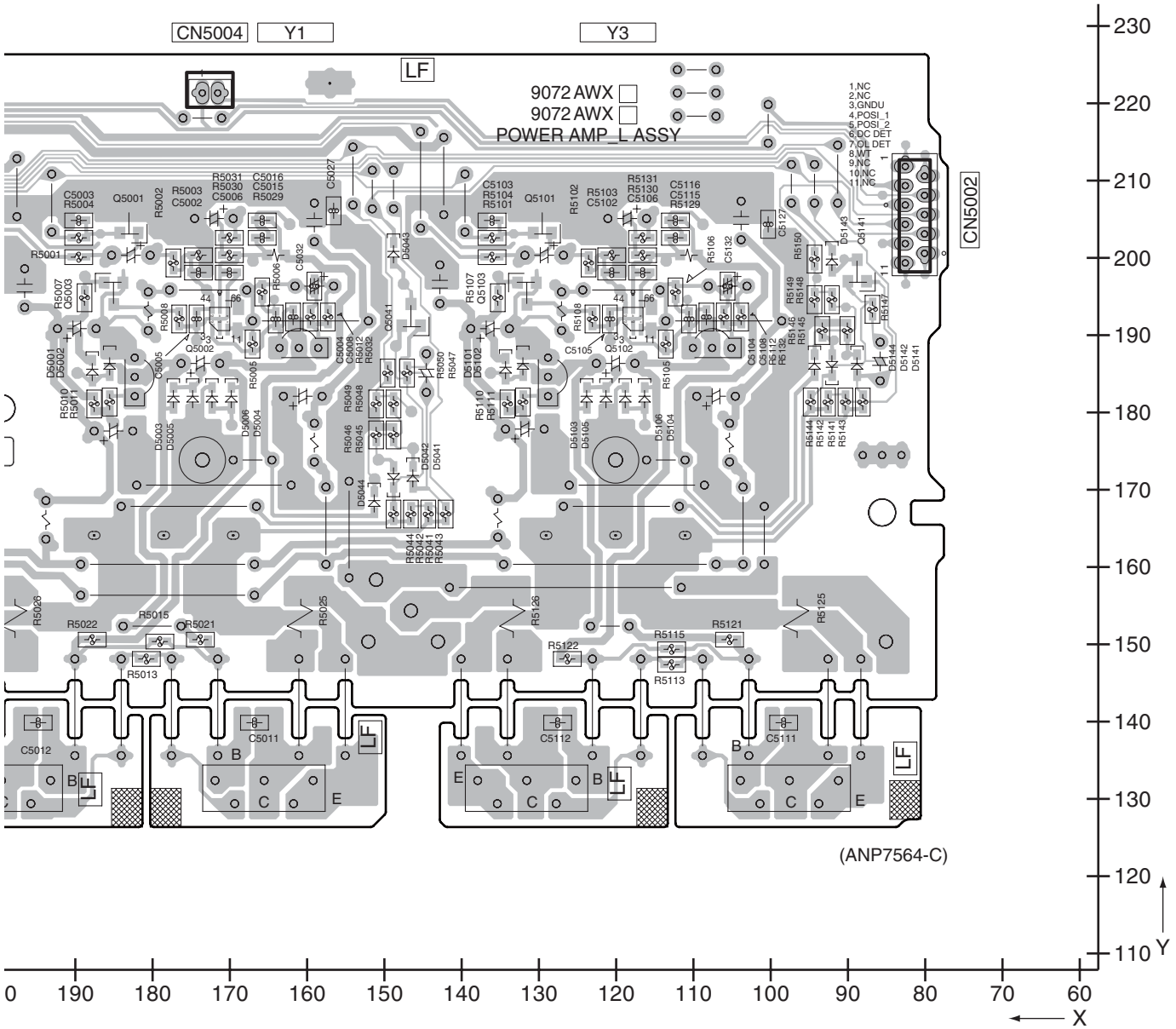

AF J4502
W CN3003
W CN3101
W CN3005
Y1
CN5005
Y5
Y3
PNE-1B1
Pioneer
SBL
CN5001
AI CN5601
CN5003
AI CN5605
RED
BLUE
BLACK
Y5
Y3
GRAY
NP
P
N
P
N
IC5002
IC5201
IC5202
IC5601
KN5002
KN5003
J5005
J5006
C
(ANP7564-C)

SIDE B

AD POWER AMP-L ASSY



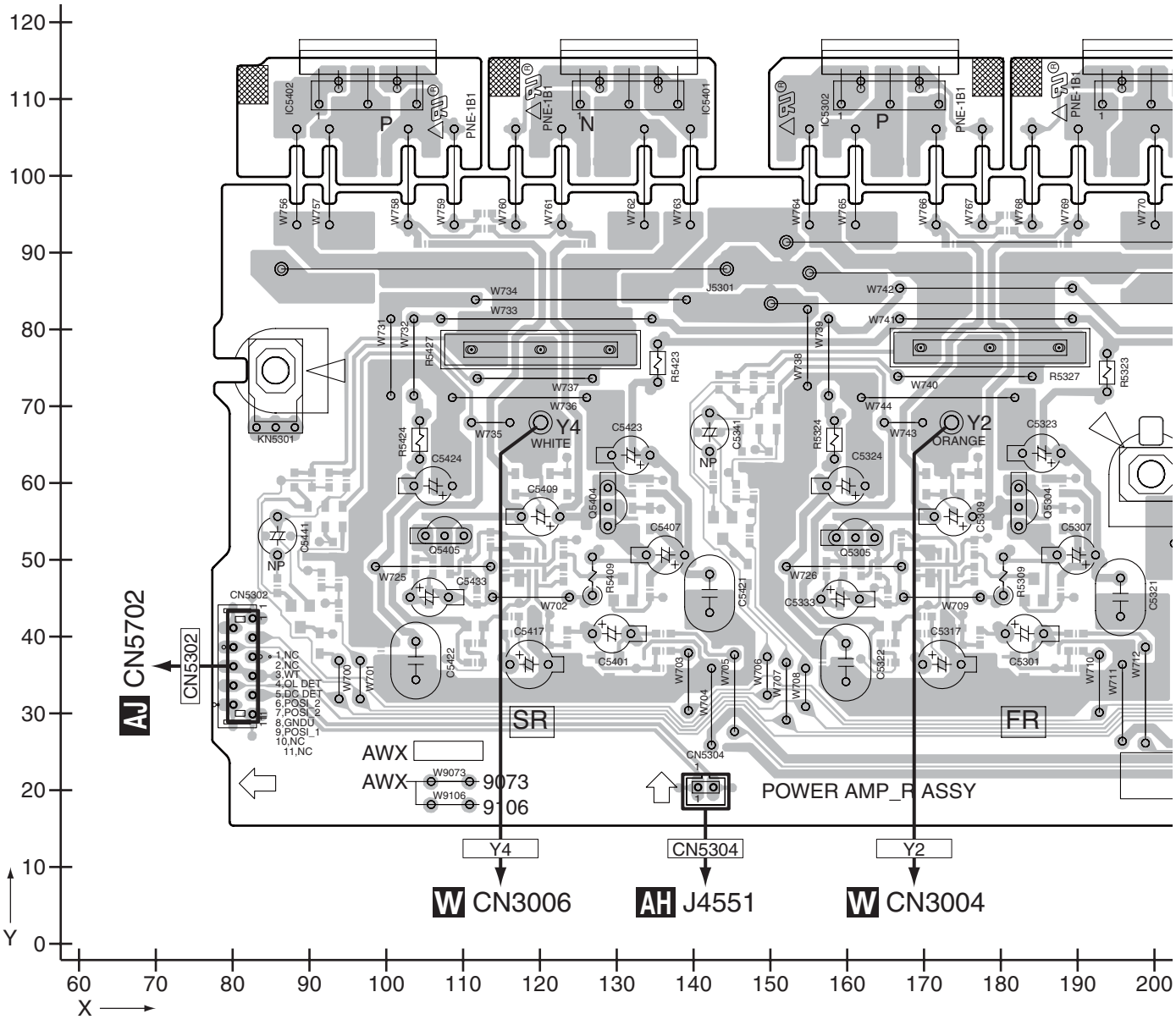
SIDE B


CN5004
Y1
Y3
LF
9072 AWX
9072 AWX
POWER AMP_L ASSY
CN5002
1,NC
2,NC
3,GNDU
4,POSI_1
5,POSI_2
6,DC DET
7,OL DET
8,MT
9,NC
10,NC
11,NC
(ANP7564-C)
230
220
210
200
190
180
170
160
150
140
130
120
110
Y
0
190
180
170
160
150
140
130
120
110
100
90
80
70
60
X

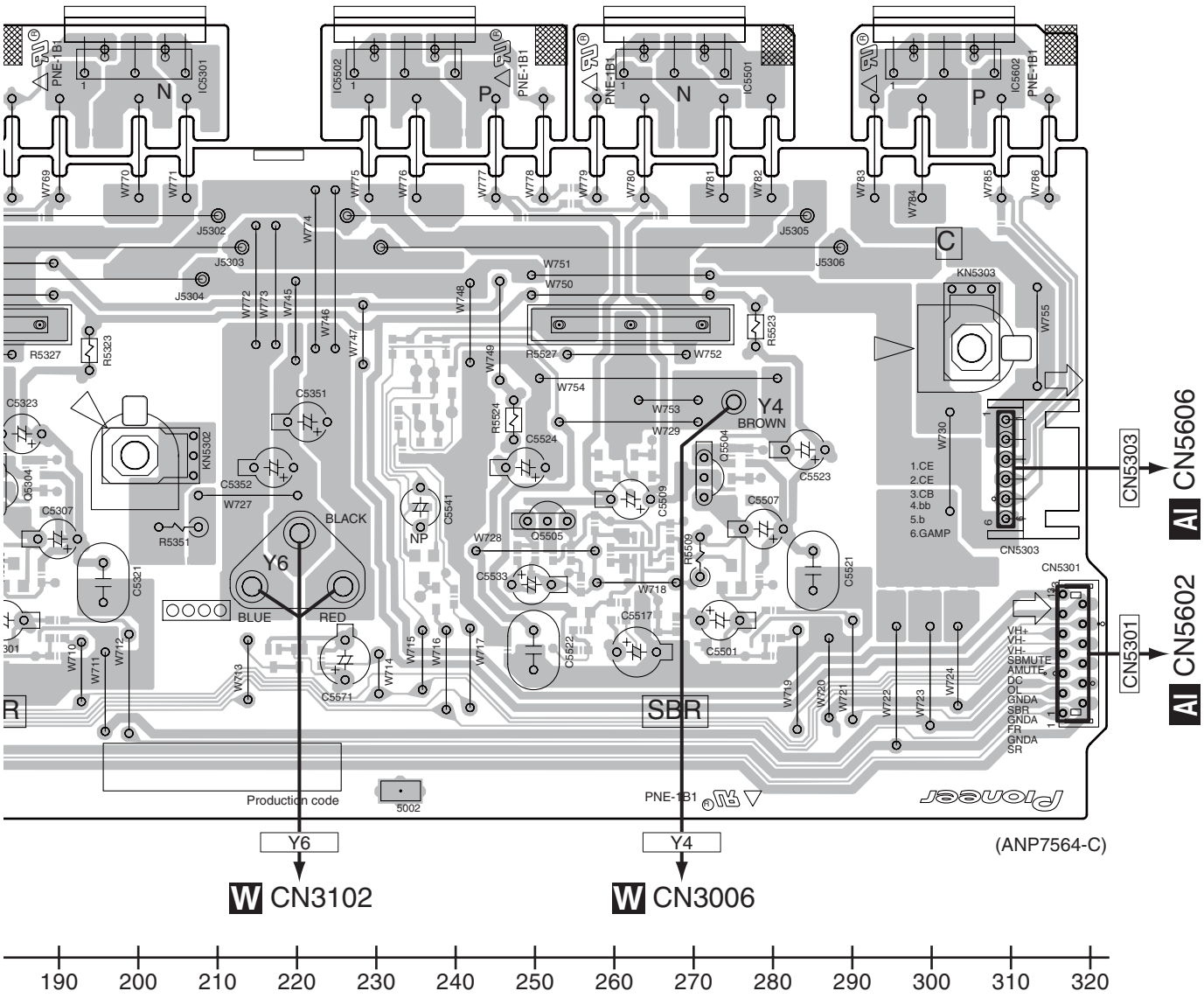
11.28 POWER AMP-R ASSY

SIDE A

AG POWER AMP-R ASSY

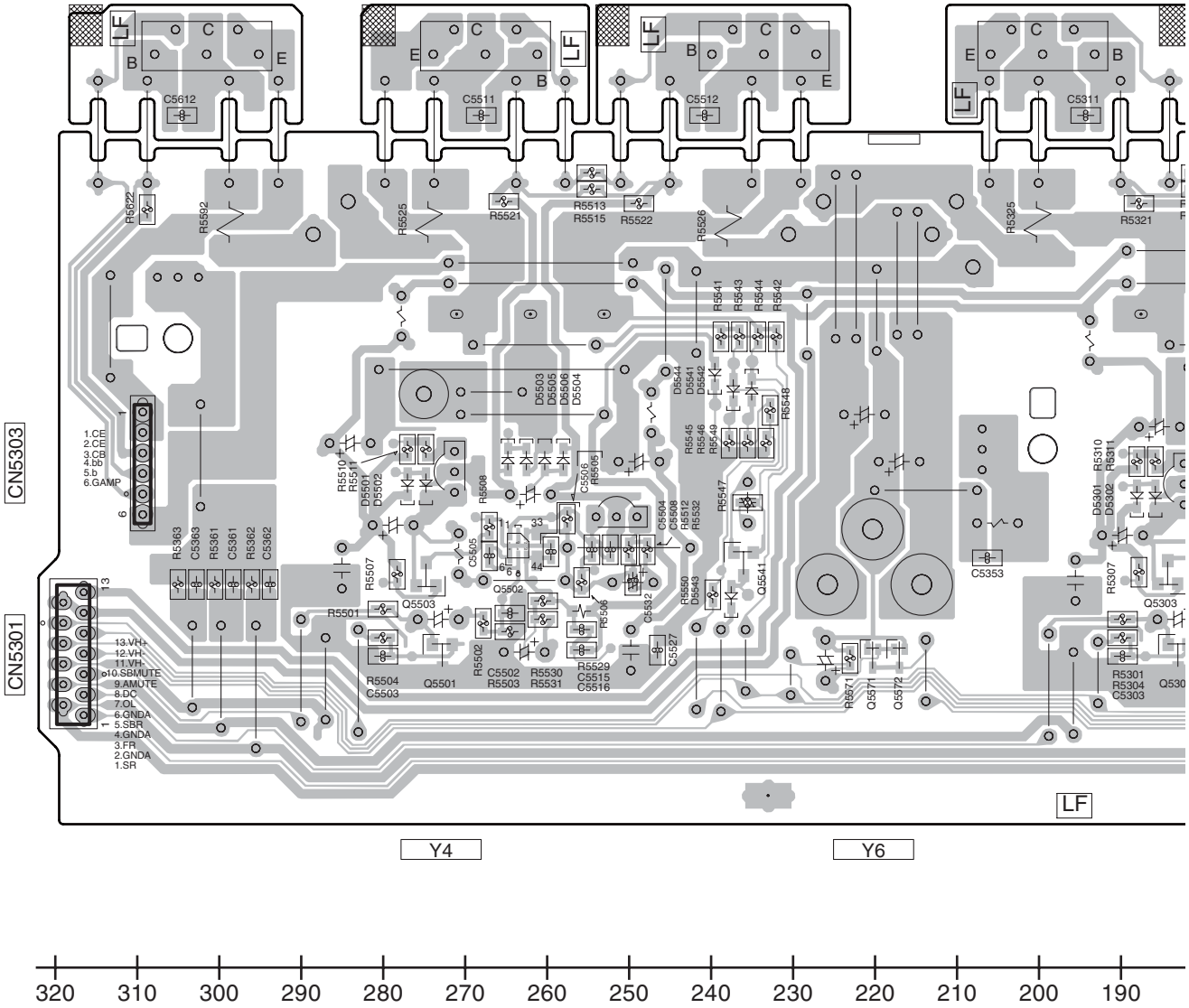


SIDE A

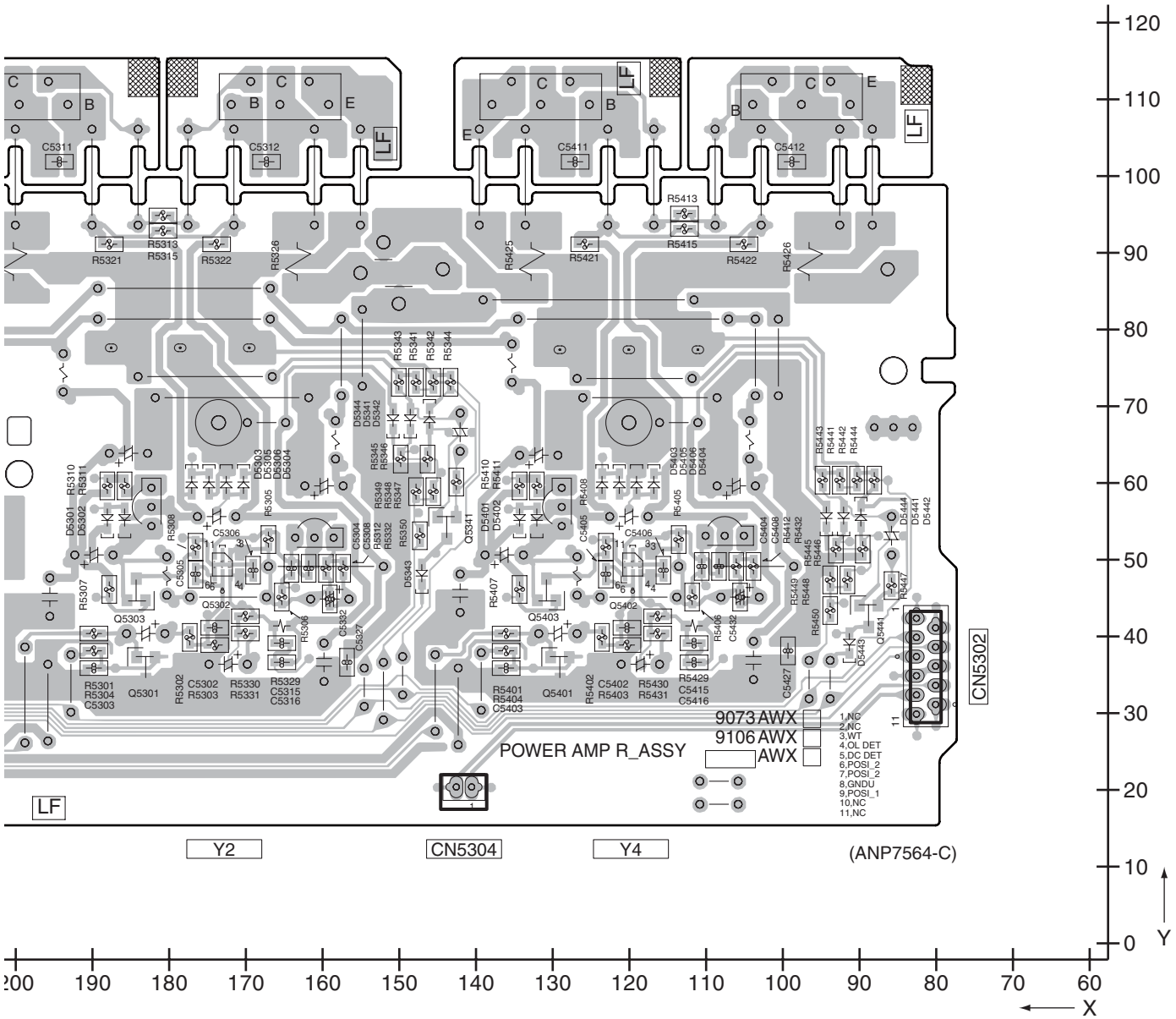

PNE-1B1
IC5301
IC5502
IC5501
IC5602
N
P
N
P
J5302
J5303
J5304
J5305
J5306
KN5303
KN5302
R5323
R5327
R5523
R5527
C5323
C5351
C5352
C5307
C5304
C5321
R5351
W727
BLACK
BLUE
RED
Y6
NP
C5541
W728
Q5505
C5533
R5524
C5524
W729
W753
Y4
BROWN
C5504
C5523
C5519
C5507
R5539
W718
C5517
C5501
C5521
C5622
C5571
W730
1.CE
2.CE
3.CB
4.bb
5.b
6.GAMP
CN5303
CN5301
VH+
VH-
VH-
SBMUTE
AMUTE
DO
OI
GNDA
SBR
GNDA
FR
GNDA
SR
SBR
Production code
5002
PNE-1B1
Pioneer
Y6
Y4
(ANP7564-C)
W CN3102
W CN3006
CN5303
AI CN5606
CN5301
AI CN5602
190 200 210 220 230 240 250 260 270 280 290 300 310 320

SIDE B

AG POWER AMP-R ASSY



SIDE B

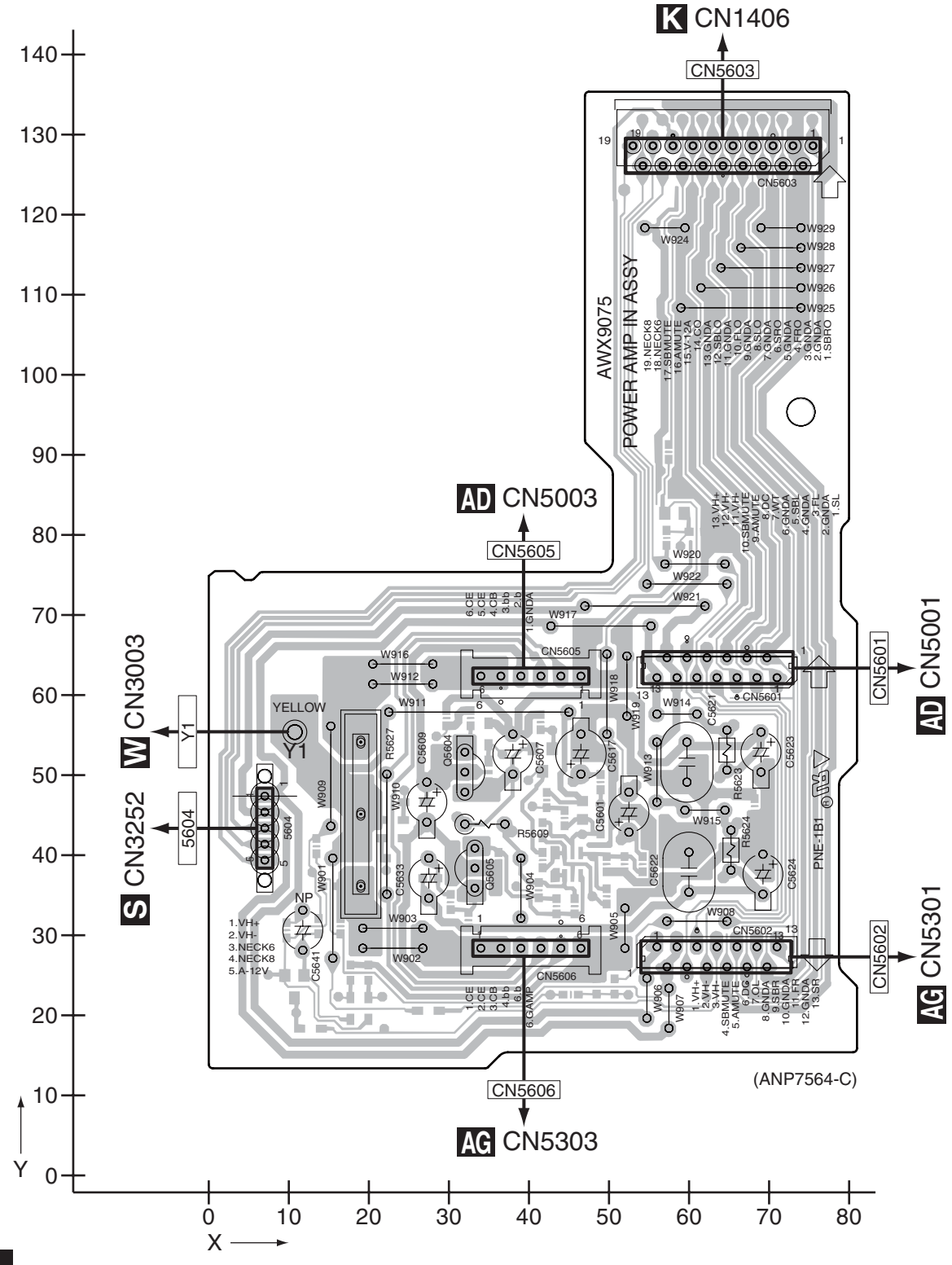

LF
C5311
C5312
C5411
C5412
R5321
R5313
R5315
R5322
R5326
R5425
R5421
R5413
R5415
R5422
R5426
R5343
R5341
R5342
R5344
D5344
D5341
D5342
R5345
R5346
R5349
R5348
R5347
R5410
R5411
D5403
D5405
D5406
D5404
R5443
R5441
R5442
R5444
R5310
R5311
D5301
D5302
D5303
D5305
D5306
D5304
R5305
R5308
C5306
C5305
C5304
C5308
R5312
R5332
R5350
D5348
Q5341
D5401
D5402
R5408
C5405
C5406
R5405
C5404
C5408
R5412
R5432
R5445
R5446
D5444
D5441
D5442
R5447
R5307
Q5302
Q5303
R5306
C5332
C5327
R5407
Q5403
Q5402
R5406
C5432
R5449
R5448
R5450
Q5441
D5443
R5301
R5304
C5303
Q5301
R5302
C5302
R5303
R5330
R5331
R5329
C5315
C5316
R5401
R5404
C5403
Q5401
R5402
C5402
R5403
R5430
R5431
R5429
C5415
C5416
C5427
9073AWX
9106AWX
AWX
POWER AMP R_ASSY
CN5302
1,NC
2,NC
3,WT
4,OL DET
5,DC DET
6,POSI_2
7,POSI_2
8,GNDU
9,POSI_1
10,NC
11,NC
Y2
CN5304
Y4
(ANP7564-C)
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
X

11.29 POWER AMP IN ASSY

SIDE A

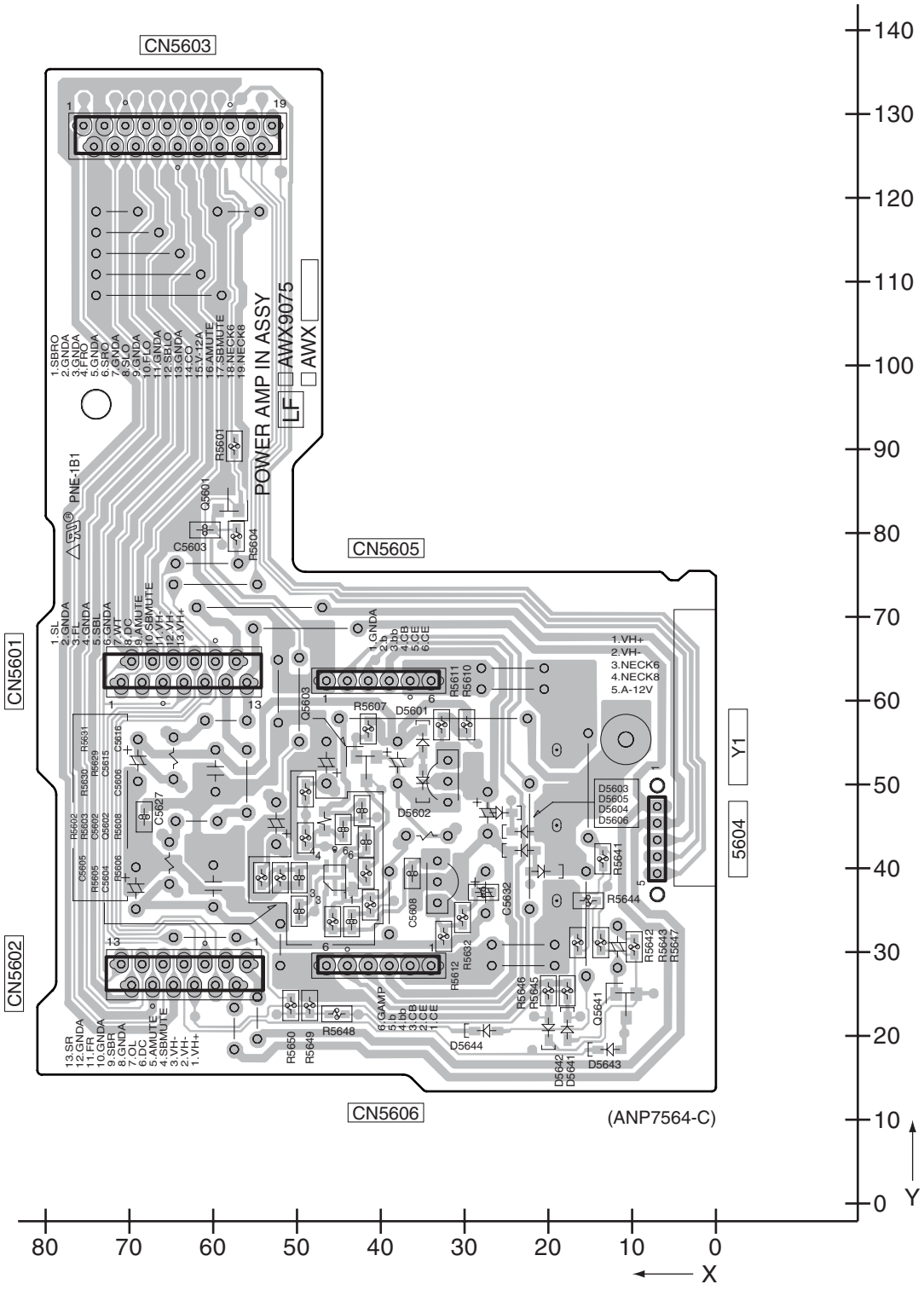
SIDE A

AI POWER AMP IN ASSY



SIDE B

AI POWER AMP IN ASSY

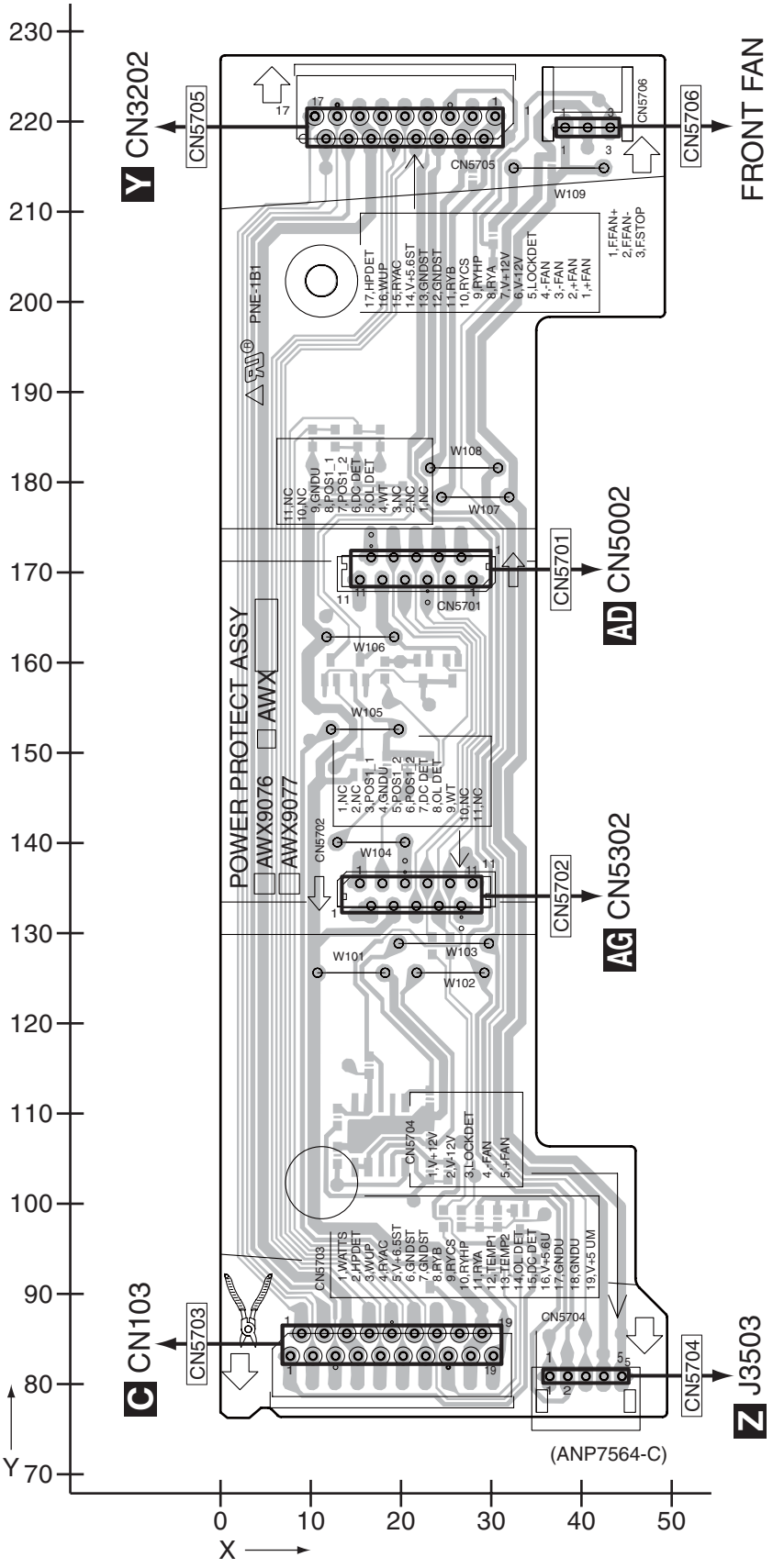


11.30 POWER PROTECT ASSY

SIDE A

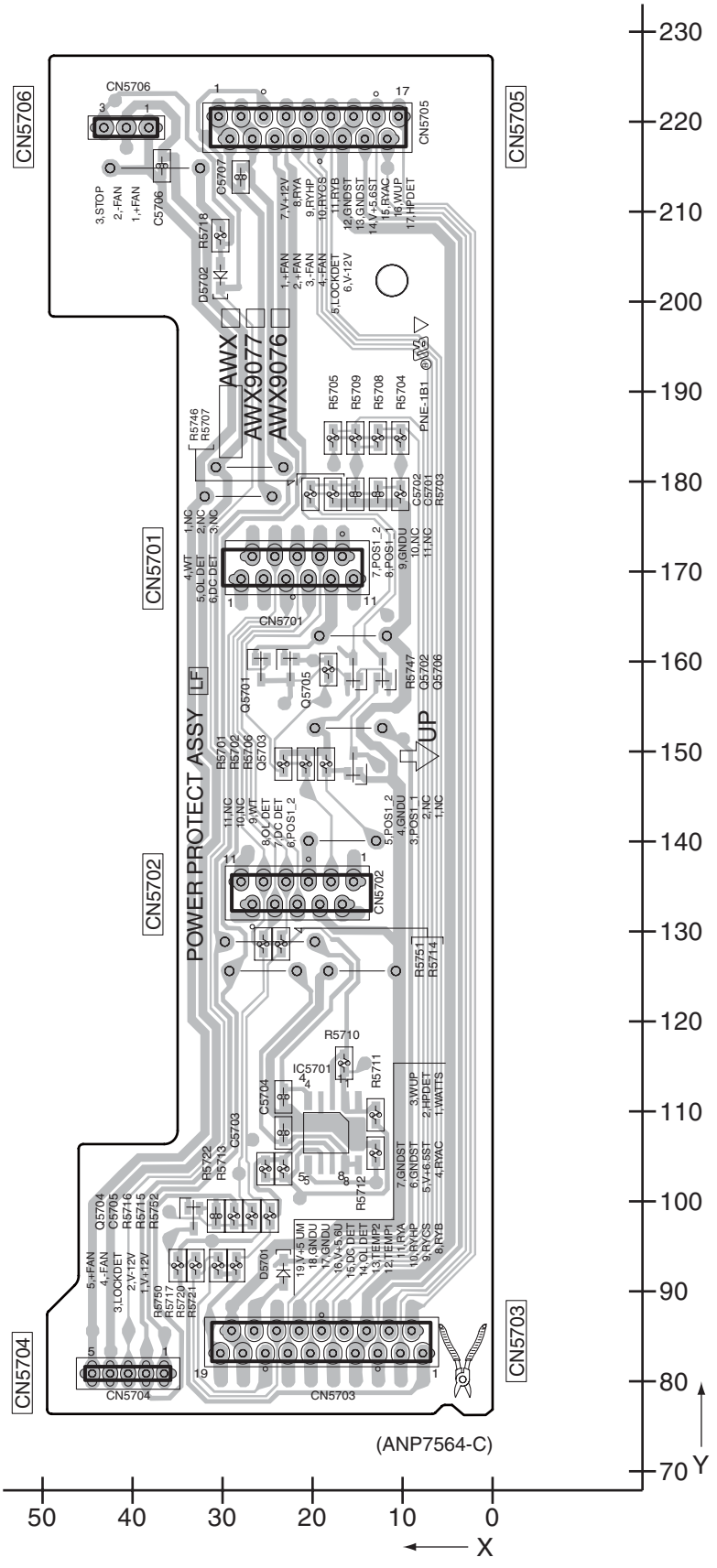
SIDE A

AJ POWER PROTECT ASSY



SIDE B

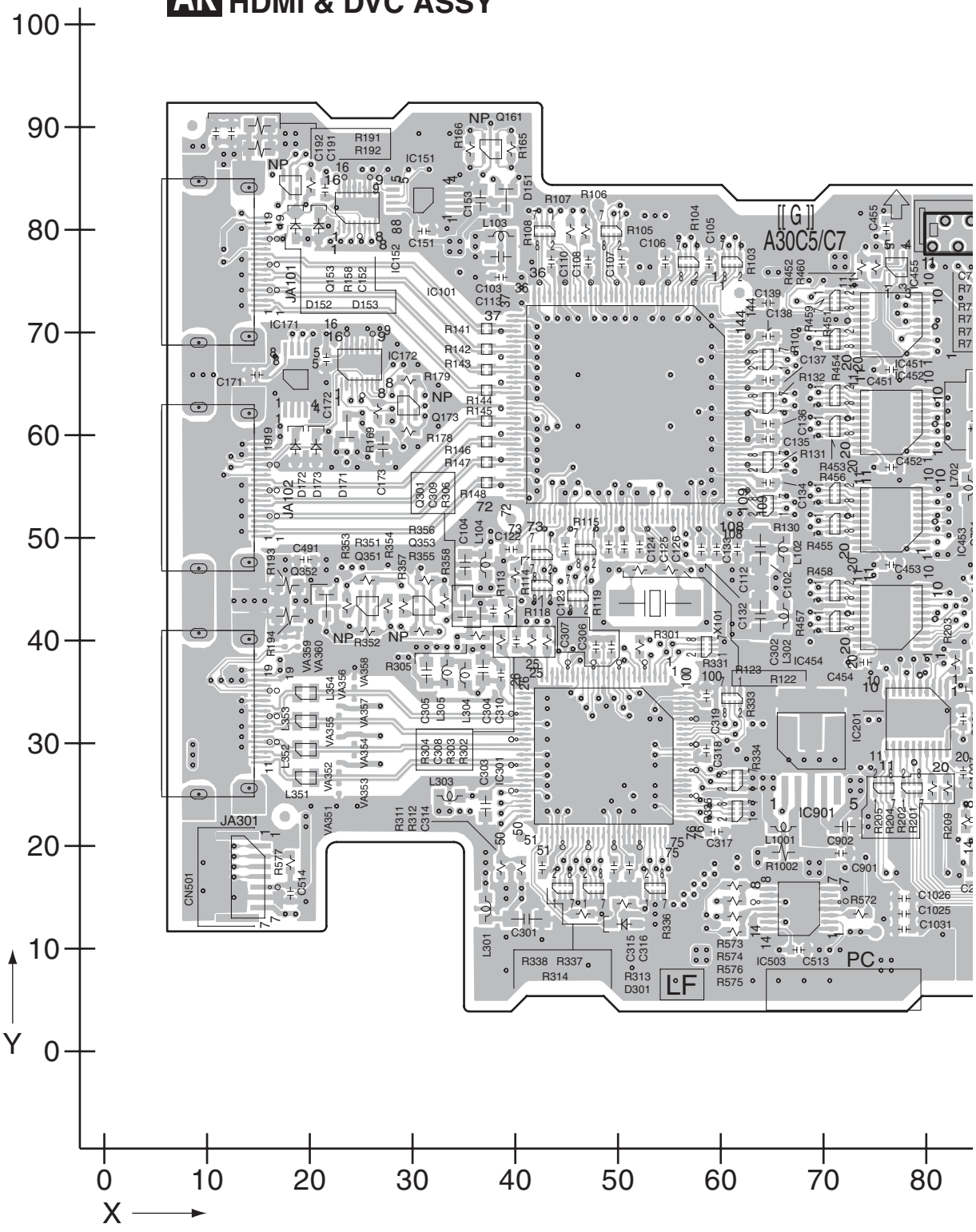
AJ POWER PROTECT ASSY



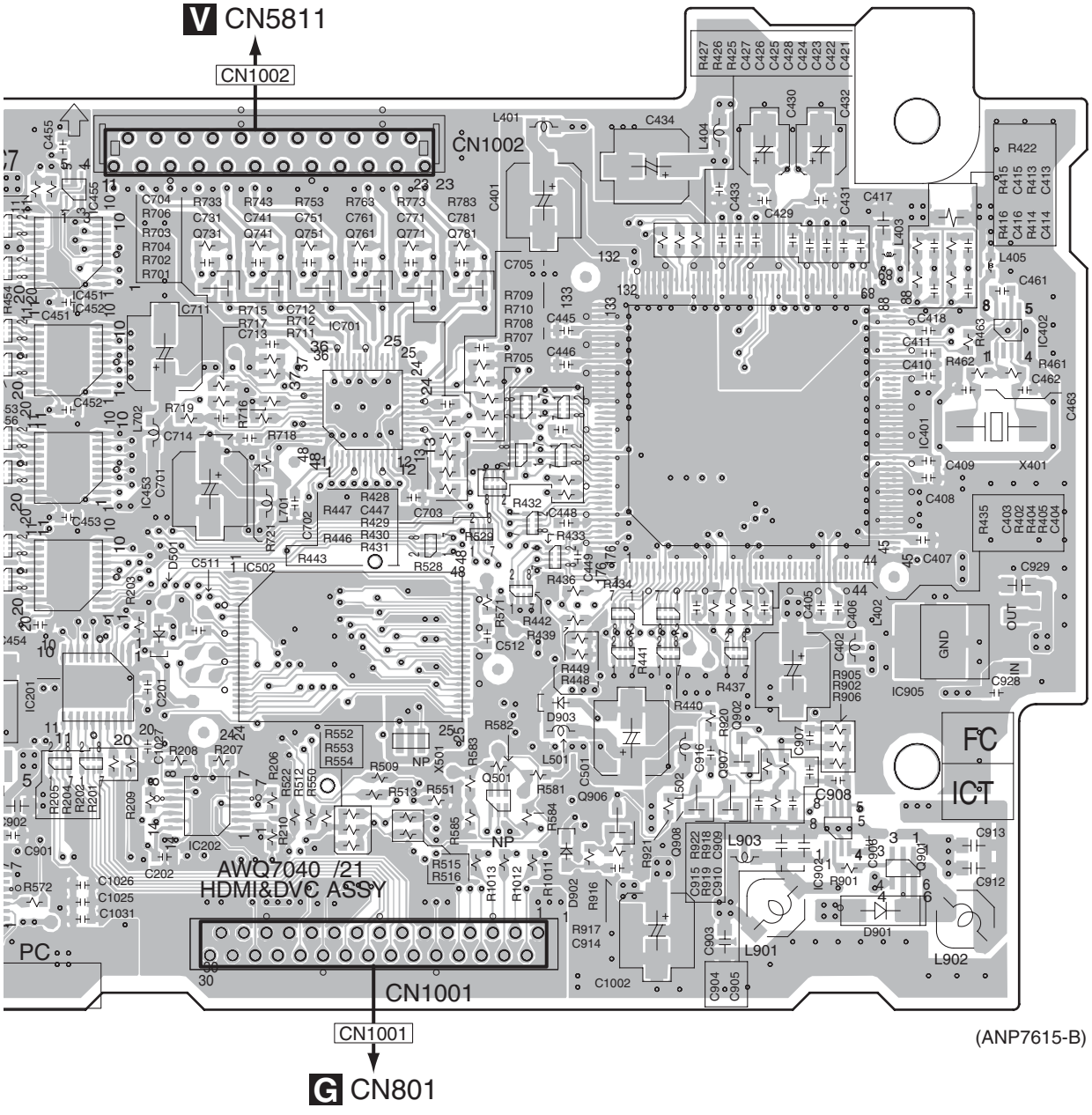
11.31 HDMI & DVC ASSY

SIDE A

AK HDMI & DVC ASSY

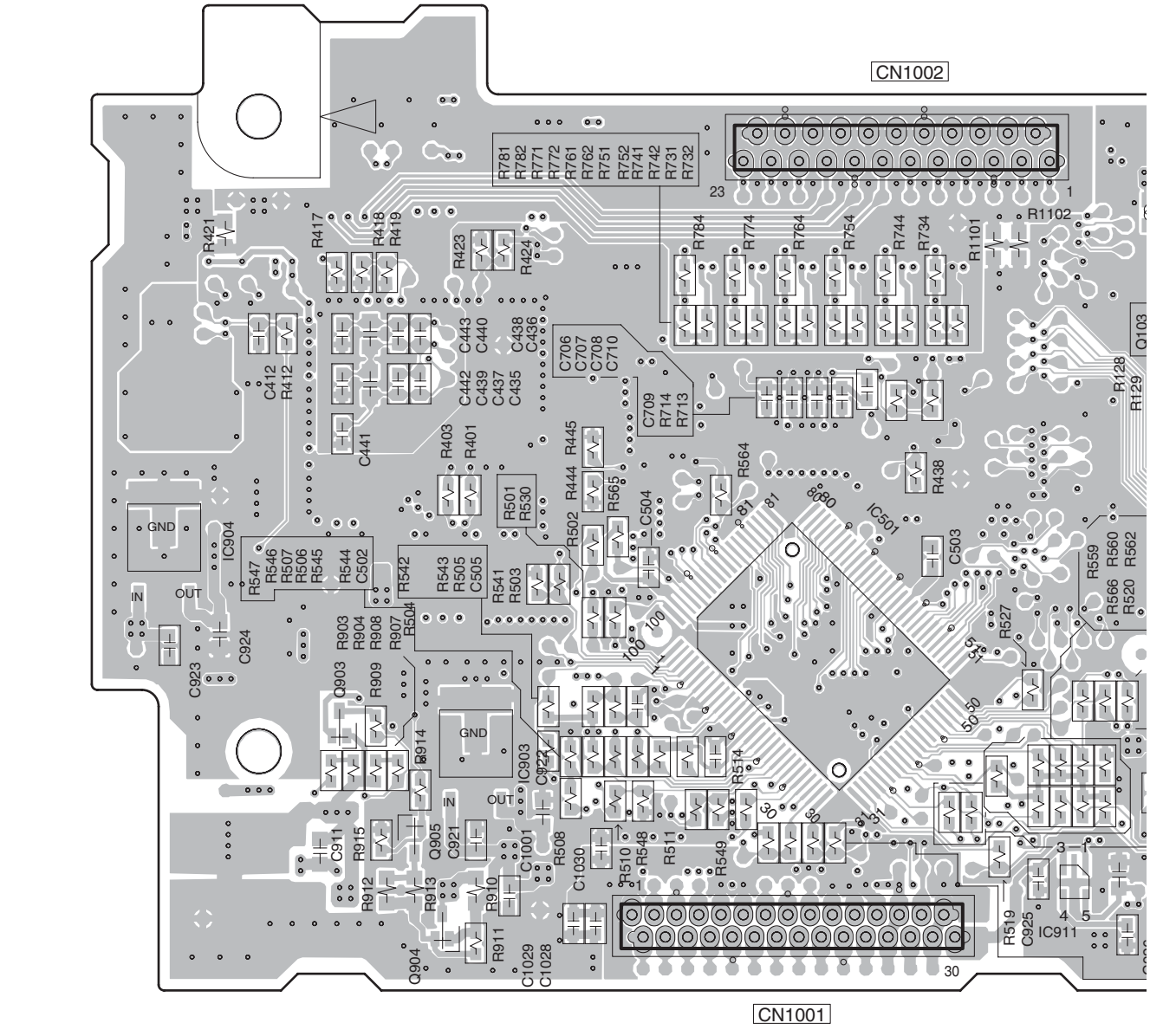


SIDE A

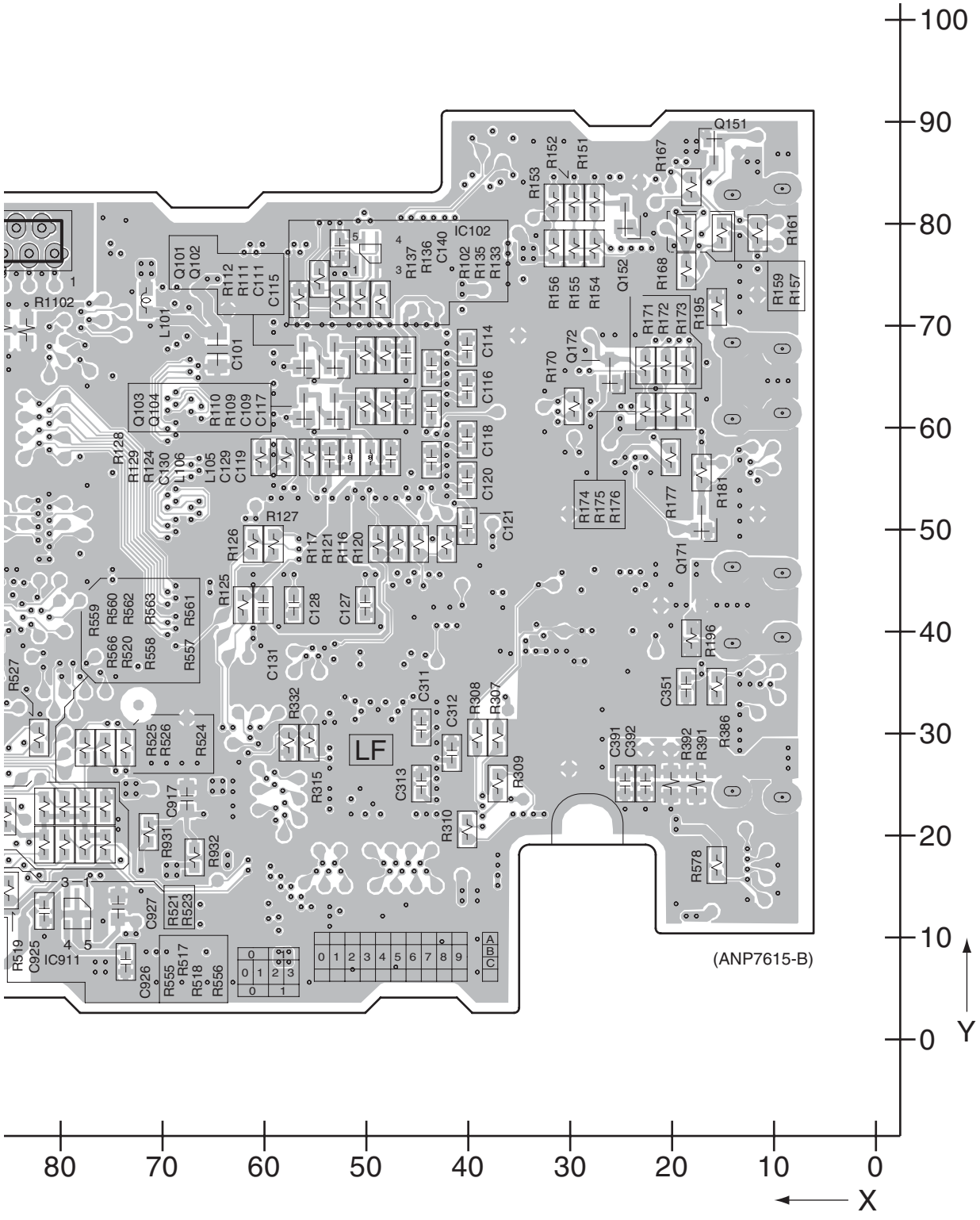

V CN5811
CN1002
CN1002
AWQ7040 /21
HDMI&DVC ASSY
PC
CN1001
CN1001
G CN801
FC
ICT
(ANP7615-B)

SIDE B

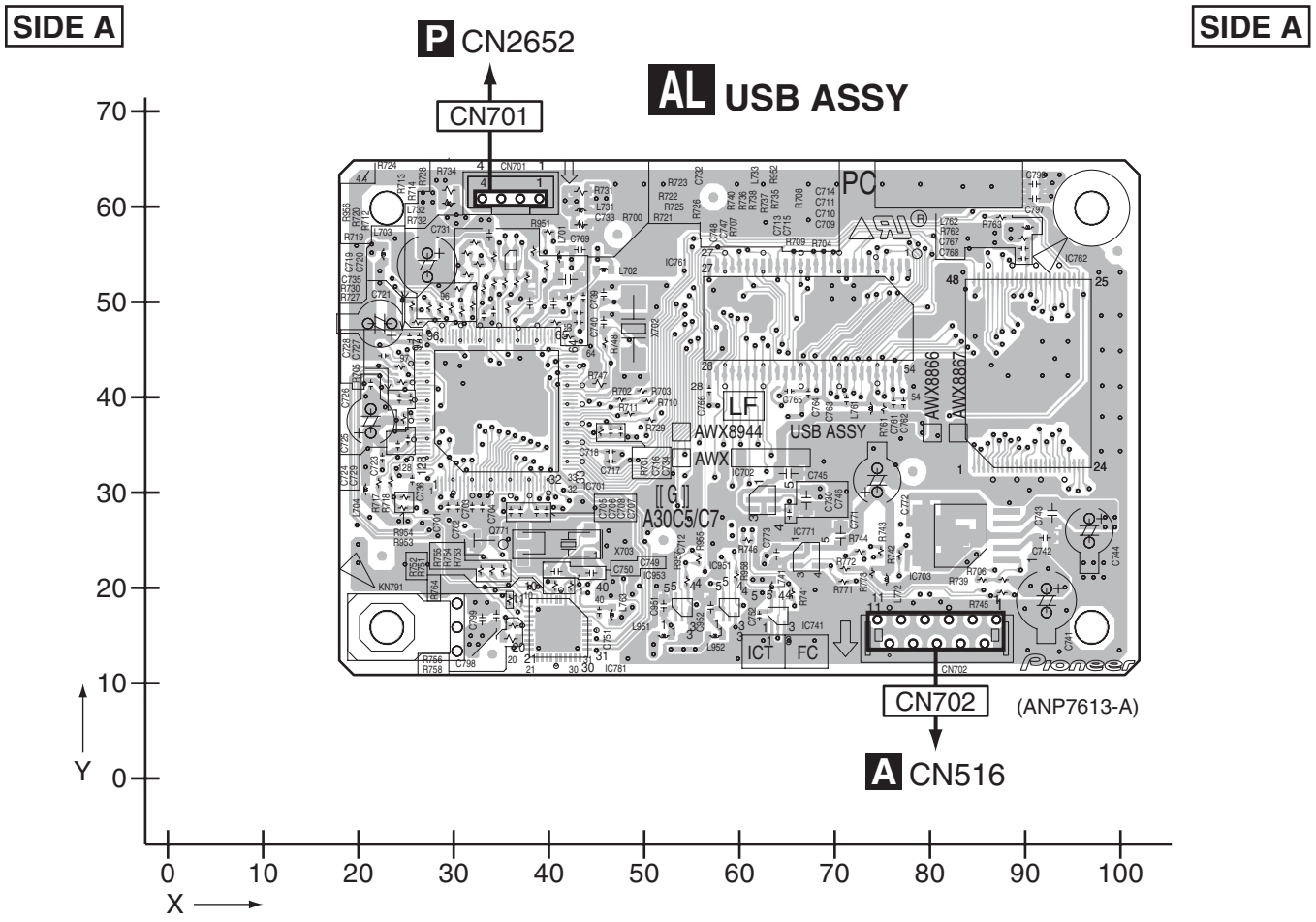
AK HDMI & DVC ASSY

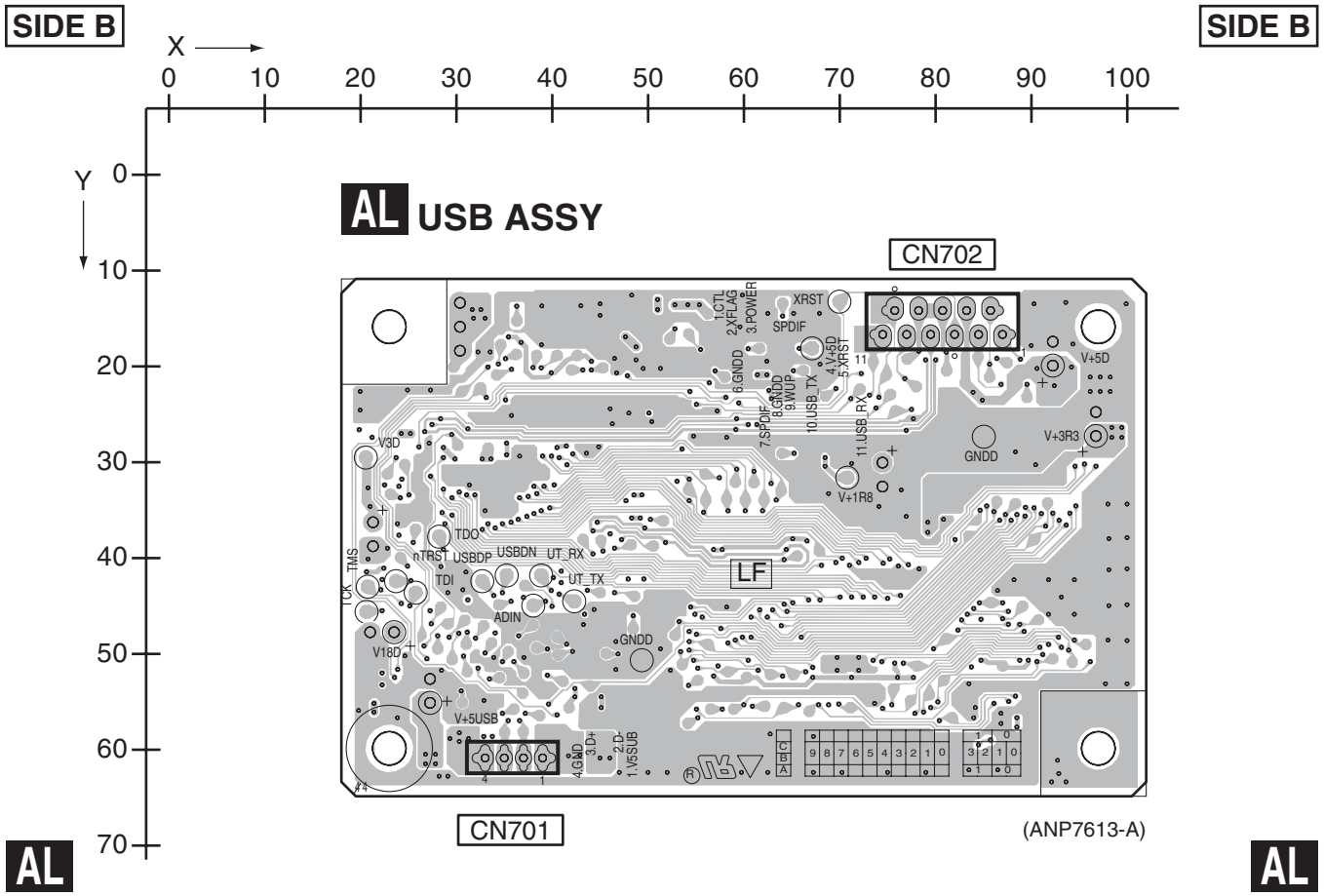


SIDE B


(ANP7615-B)
LF
IC102
IC911
Q151
R1102
100
90
80
70
60
50
40
30
20
10
0
Y
80
70
60
50
40
30
20
10
0
X

11.32 USB ASSY (VSX-LX50 ONLY)





A

B

C

D

E

F

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 WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	VSX-LX50/ HYXJ5	VSX-91TXH/ KUXJ/CA	VSX-9120TXH-K/ KUXJ
NSP	1..MAIN ASSY	AWK7975	AWK7974	AWK7974
	2..MAIN CONTROL ASSY	AWX8817	AWX8816	AWX8816
	2..AUDIO IN ASSY	AWX8821	AWX8820	AWX8820
	2..12V-REG ASSY	AWX8824	AWX8824	AWX8824
	2..GUARD-C ASSY	AWX8826	AWX8826	AWX8826
	2..GUARD-F ASSY	AWX8825	AWX8825	AWX8825
	1..DSP ASSY	AWX8814	AWX8813	AWX8813
NSP	1..VIDEO ASSY	AWK7984	AWK7983	AWK7983
	2..COMPOSITE ASSY	AWX8842	AWX8841	AWX8841
	2..S-VIDEO ASSY	AWX8845	AWX8844	AWX8844
	2..COMPONENT ASSY	AWX8848	AWX8847	AWX8847
	2..BRIDGE 2 ASSY	AWX8850	AWX8850	AWX8850
NSP	1..COMPLEX ASSY	AWK8015	AWK8014	AWK8014
	2..PRIMARY ASSY	AWX9035	AWX9034	AWX9034
	2..TRANS 1 ASSY	AWX9038	AWX9038	AWX9038
	2..DISPLAY ASSY	AWX8874	AWX8873	AWX8873
	2..VOLUME ASSY	AWX9111	AWX9044	AWX9044
	2..MULTI JOG ASSY	AWX8880	AWX8879	AWX8879
	2..FRONT-IN ASSY	AWX8955	AWX8954	AWX8954
	2..HEADPHONE ASSY	AWX9049	AWX9049	AWX9049
NSP	1..SECONDARY ASSY	AWK7911	AWK7910	AWK7910
	2..PS/SP ASSY	AWX9107	AWX9052	AWX9052
	2..TRANS SIDE ASSY	AWX9056	AWX9056	AWX9056
	2..TRANS 2-1 ASSY	AWX9059	AWX9058	AWX9058
	2..DIODE 1 ASSY	AWX9060	AWX9060	AWX9060
	2..VH TR ASSY	AWX9061	AWX9061	AWX9061
	2..TRANS 2-2 ASSY	AWX9062	AWX9062	AWX9062
	2..LOCAL P-SUPPLY ASSY	AWX9064	AWX9063	AWX9063
	2..IR I/O ASSY	AWX9067	AWX9066	AWX9066
	2..VIDEO CONNECT ASSY	AWX9069	AWX9069	AWX9069
	2..DC/DC ASSY	AWX9015	AWX9015	AWX9015
	2..BRIDGE 1 ASSY	AWX9078	AWX9078	AWX9078
NSP	1..POWER AMP ASSY	AWK7920	AWK7919	AWK7919
	2..POWER AMP-L ASSY	AWX9072	AWX9071	AWX9071
	2..POWER AMP-R ASSY	AWX9073	AWX9106	AWX9106
	2..POWER AMP IN ASSY	AWX9075	AWX9075	AWX9075
	2..POWER PROTECT ASSY	AWX9077	AWX9076	AWX9076
	2..POSI 1-L ASSY	AWX9081	AWX9080	AWX9080
	2..POSI 2-L ASSY	AWX9082	Not used	Not used
	2..POSI 1-R ASSY	AWX9084	AWX9083	AWX9083
	1..HDMI & DVC ASSY	AWQ7040	AWQ7040	AWQ7040
	1..USB ASSY	AWX8866	Not used	Not used
	1..FM/AM TUNER UNIT	AXX7248	AXX7250	AXX7250

CONTRAST OF PCB ASSEMBLIES

A AUDIO IN ASSY

AWX8821 and AWX8820 are constructed the same except for the following:

Mark	Symbol and Description	AWX8821	AWX8820
⚠	IC663	Not used	NJM78M12FA
	D671	Not used	RB501V-40-TRB
	C501, C502, C505-C510	CCSRCH101J50	Not used
	C513-C518, C521-C526	CCSRCH101J50	Not used
	C541-C544, C549-C552	CCSRCH101J50	Not used
	C527, C528, C531-C536	CCSRCH151J50	Not used
	C539, C540, C547, C548	CCSRCH151J50	Not used
	C503, C504, C511, C512, C519, C520	CCSRCH221J50	Not used
	C678	Not used	CKSRYB103K50
	C679	Not used	CEAT100M50-TS
	CN516 11p Plug	XKP3065	Not used

C MAIN CONTROL ASSY

AWX8817 and AWX8816 are constructed the same except for the following:

Mark	Symbol and Description	AWX8817	AWX8816
	IC251	LC72725KM-TBB	Not used
	IC252	Not used	TC74VHC125FTS1-TBB
	Q102	Not used	RT1P241M-TLB
	C251	CEAT100M50-TS	Not used
	C253	CCSRCH561J50	Not used
	C254	CEAT101M10-TS	Not used
	C255	CKSRYB102K50	Not used
	C256, C257	CCSRCH270J50	Not used
	C260	CKSRYB472K50	Not used
	C261	Not used	CKSRYB104K16
	R124, R126, R127	RS1/16S101J	Not used
	R130, R132, R199	Not used	RS1/16S101J
	R131, R171, R259, R260	Not used	RS1/16S104J
	R136	RS1/16S222J	Not used
	R152	Not used	RS1/16S473J
	R156	Not used	RS1/16S103J
	R187, R188	RS1/16S0R0J	Not used
	R189	RS1/16S104J	Not used
	R251	RS1/16S473J	RS1/16S474J
	R252, R253, R254	RS1/16S102J	Not used
	R255-R258	Not used	RS1/16S221J
	R261	Not used	RS1/16S274J
	R383, R384	Not used	RS1/16S0R0J
	R9001, R9003, R9005, R9010	RS1/16S0R0J	Not used
	J101 Connector Ass'y	Not used	PF03GG-Q12
	CN305 12p Connector	Not used	VKN1243
	CN311 Plug(5p)	Not used	KM200NA5
	X251 Crystal Resonator	ASS7004	Not used

G DSP ASSY

AWX8814 and AWX8813 are constructed the same except for the following:

Mark	Symbol and Description	AWX8814	AWX8813
	IC501	Not used	F2621E-01-TBB
	IC502	Not used	AAT4618IGV-0.5-1-TLB
	IC601	Not used	TC74VHC157FTS1-TBB
	D501, D502	Not used	UDZS5R6(B)-TRB
	L501, L601	Not used	QTL1013

Mark	Symbol and Description	AWX8814	AWX8813
	L502	Not used	ATL7002
	C501	Not used	CEVW470M6R3-TRB
	C502, C504, C505, C506, C602	Not used	CKSSYB104K10
	C503	Not used	CKSSYB471K50
	C507	Not used	CEVW101M16-TRB
	C508	Not used	CKSRYB104K16
	C509, C510	Not used	CCSSCH100D50
	C513	Not used	CKSRYB105K16
	R503, R613-R616	RS1/16SS0R0J	Not used
	R518, R601, R610	Not used	RAB4CQ101J
	R964	Not used	RAB4CQ104J
	R533, R535, R536	Not used	RS1/16SS0R0J
	R504, R506, R516, R523, R524	Not used	RS1/16SS101J
	R525, R526, R528, R605, R608	Not used	RS1/16SS101J
	R505, R507	Not used	RS1/16SS102J
	R531	Not used	RS1/16SS103J
	R511	Not used	RS1/16SS105J
	R514, R515, R517, R519, R520	Not used	RS1/16SS223J
	R521, R532	Not used	RS1/16SS223J
	R527, R529, R604, R606, R607, R609	Not used	RS1/16SS470J
	R510	Not used	RS1/16SS471J
	CN953 12p Connector	Not used	VKN1416
	CN501 4p Socket	Not used	AKP7201
	JA351 Jack	AKB7131	AKB7173
	X501	Not used	ASS7065

H COMPOSITE ASSY

AWX8842 and AWX8841 are constructed the same except for the following:

Mark	Symbol and Description	AWX8842	AWX8841
	IC1002	Not used	TC74HC4051AFT-TBB
	IC1151	Not used	M61545FP-TBB
	Q1151	Not used	IMX25
	D1006	Not used	DAN202U-TLB
	D1007	Not used	1SS355-TRB
	D1112	Not used	DAN217U-TLB
	C1003, C1004, C1163	Not used	CKSRYB104K16
	C1015	Not used	CEAT101M10
	C1023	Not used	CCSRCH181J50
	C1101-C1104	CCSRCH101J50	Not used
	C1151-C1154	Not used	CEAT2R2M50
	C1155, C1156, C1161, C1162	Not used	CCSRCH101J50
	C1157, C1158	Not used	CCSRCH331J50
	C1159	Not used	CKSRYB104K50
	C1160	Not used	CEAT100M50
	C1164	Not used	CKSRYB103K50
	R1005	Not used	RS1/16S750J
	R1053	Not used	RS1/16S0R0J
	R1151, R1152	Not used	RS1/16S104J
	R1153, R1154	Not used	RS1/16S202J
	R1155, R1156	Not used	RS1/16S103J
	R1157, R1158	Not used	RS1/16S101J
	R1159, R1160, R1164	Not used	RS1/16S471J
	R1163	Not used	RS1/16S473J
	JA1006 Pin Jack(1p)	AKB7175	Not used
	1004 Pin Jack(2p)	Not used	AKB7176
	1005 Pin Jack(2p)	Not used	AKB7181

I S-VIDEO ASSY

AWX8845 and AWX8844 are constructed the same except for the following:

Mark	Symbol and Description	AWX8845	AWX8844
	IC1301	Not used	SP3232ECY-TBB
	Q1301	Not used	2SC4081(QRS)-TLB
	Q1351	Not used	2SA1576A(RS)-TLB
	Q1352	Not used	RT1N241M-TLB
	Q1353	Not used	2SA1576A(RS)-TLB
	D1302	Not used	1SS355-TRB
	D1351, D1601, D1602	Not used	UDZS5R1(B)-TRB
	D1603-D1606	Not used	UDZS6R2(B)-TRB
	L1351	Not used	ATL7002
	C1304-C1306, C1308, C1352	Not used	CKSRYB104K16
	C1309, C1353, C1311	Not used	CKSRYB103K50
	C1310	Not used	CCSRCH331J50
	C1354	Not used	CKSRYB102K50
	C1355	Not used	CKSRYB472K50
	C1605, C1606	Not used	CEAT470M25
	R1310	RS1/16S103J	Not used
	R1309, R1624, R1629, R1630	Not used	RS1/16S0R0J
	R1301-R1304	Not used	RS1/16S101J
	R1307, R1353, R1354	Not used	RS1/16S103J
	R1351, R1352	Not used	RS1/16S180J
	R1305, R1308	Not used	RS1/16S224J
	R1603, R1604	Not used	RS1/16S331J
	R1355, R1356	Not used	RS1/16S472J
	R1306, R1601,R1602	Not used	RS1/16S474J
	CN1301 9p D-sub Socket	Not used	AKP1213
	CN1302 07p Connector	RKN1048	Not used
	JA1351 Jack	Not used	RKN1004
	JA1601 Socket	Not used	BKP1127
	J1602 Connector Ass'y	Not used	PF05PG-Q15

K COMPONENT ASSY

AWX8848 and AWX8847 are constructed the same except for the following:

Mark	Symbol and Description	AWX8848	AWX8847
	C1501, C1502, C1521, C1522, C1541	CCSRCH101J50	Not used
	C1542, C1561, C1562	CCSRCH101J50	Not used
	C1507, C1508, C1527, C1528, C1569	CCSRCH271J50	Not used
	C1570, C1571, C1572	CCSRCH271J50	Not used

L DISPLAY ASSY

AWX8874 and AWX8873 are constructed the same except for the following:

Mark	Symbol and Description	AWX8874	AWX8873
	Q2402	Not used	UMB1N
	Q2409	RT1N431M-TLB	Not used
	D2401	Not used	1SS355-TRB
	D2402	Not used	DAN217U-TLB
	D2415	Not used	DAN202U-TLB
	D2414	SLR343BC4T(JKLM)-TS	Not used
	C2402	Not used	CKSRYB153K50
	R2407	Not used	RS1/16S223J
	R2408, R2410	Not used	RS1/16S103J
	R2409	Not used	RS1/16S392J
	R2414	RS1/16S0R0J	Not used
	R2423	RS1/16S221J	Not used
	R2425, R2426	Not used	RS1/16S0R0J

P FRONT_IN ASSY

AWX8955 and AWX8954 are constructed the same except for the following:

Mark	Symbol and Description	AWX8955	AWX8954
	L2752, L2753	VTL1169	Not used
	C2673	CKSRYB104K16	CKSRYB104K25
	C2753, C2756	CKSRYB104K16	Not used
	C2755	CEAT101M16-TS	Not used
	C2757	CCSRCH471J50	Not used
	R2751, R2752	RS1/16S0R0J	Not used
	JA2751 USB Connector	XKP3086	Not used
	CN2652 Connector	B4B-PH-K-S	Not used

Q PRIMARY ASSY

AWX9035 and AWX9034 are constructed the same except for the following:

Mark	Symbol and Description	AWX9035	AWX9034
⚠	T2001	ATT7040	ATT7043
⚠	RY2001	ASR7013	ASR7022
⚠	R2001	Not used	RCN1080
	R2002	RD1/4MUF101J	RD1/4MUF220J
⚠	2001 AC Socket 1-p	Not used	AKP1033

S TRANS 2-1 ASSY

AWX9059 and AWX9058 are constructed the same except for the following:

Mark	Symbol and Description	AWX9059	AWX9058
	D3253	UDZS8R2(B)-TRB	UDZS10(B)-TRB
	D3254	UDZS7R5(B)-TRB	UDZS9R1(B)-TRB
	D3255	UDZS9R1(B)-TRB	UDZS10(B)-TRB
	D3256	UDZS8R2(B)-TRB	UDZS9R1(B)-TRB
	D3263	UDZS13(B)-TRB	UDZS10(B)-TRB
	D3264	UDZS15(B)-TRB	UDZS12(B)-TRB

W PS/SP ASSY

AWX9107 and AWX9052 are constructed the same except for the following:

Mark	Symbol and Description	AWX9107	AWX9052
	C3101, C3102	ACH7255	ACH7258
	CN3002 Speaker Terminal 6-p	AKE7108	AKE7107
	CN3001 Speaker Terminal 8-p	AKE7119	AKE7118

Z LOCAL P-SUPPLY ASSY

AWX9064 and AWX9063 are constructed the same except for the following:

Mark	Symbol and Description	AWX9064	AWX9063
⚠	IC3502	AEK7012	Not used
⚠	Q3501	UMD2N-TLB	Not used
⚠	Q3502	2SD1763A(DE)	Not used
	Q3503	DTC124EUA-TLB	Not used
⚠	D3509, D3510	1SR154-400-TRB	Not used
	D3511	UDZS27(B)-TRB	Not used
	C3512	CEAT100M50	Not used
	C3513	CKSRYB102K50	Not used
	C3514	CEAT100M50	Not used
	C3510	CEANP102M16-F	Not used
	C3511	CEAT102M35-F	Not used
	C3515	CEANP470M25	Not used
	R3504	RS1/16S472J	Not used
	R3505	RS1/16S101J	Not used
	R3506	RS1/16S222J	Not used

AB IR I/O ASSY

AWX9067 and AWX9066 are constructed the same except for the following:

Mark	Symbol and Description	AWX9067	AWX9066
	D3702	Not used	1SS355-TRB
	L3701	Not used	CTF1473
	L3702	Not used	QTL1013
	L3703	Not used	CTF1473
	L3704	Not used	CTF1385
	C3758	Not used	CKSRYB103K50
	R3701	Not used	RS1/16S0R0J
	R3702	Not used	RS1/16S102J
	R3703, R3755	RS1/16S0R0J	Not used
	JA3701 Connector	Not used	CKS4124
	JA3702 Jack	Not used	RKN1004

AD POWER AMP-L ASSY

AWX9072 and AWX9071 are constructed the same except for the following:

Mark	Symbol and Description	AWX9072	AWX9071
NSP	CN5005 Connector	B2B-PH-K-R	Not used

AE POSI 1-L ASSY

AWX9081 and AWX9080 are constructed the same except for the following:

Mark	Symbol and Description	AWX9081	AWX9080
⚠	TH4501 Posistor	PTFM04BH222Q2N34B0	PTFM04BC222Q2N34B0

AG POWER AMP-R ASSY

AWX9073 and AWX9106 are constructed the same except for the following:

Mark	Symbol and Description	AWX9073	AWX9106
	5002 PCB Binder	VEF1040	Not used

AH POSI 1-R ASSY

AWX9084 and AWX9083 are constructed the same except for the following:

Mark	Symbol and Description	AWX9084	AWX9083
⚠	TH4503 Posistor	PTFM04BH222Q2N34B0	PTFM04BC222Q2N34B0

AJ POWER PROTECT ASSY

AWX9077 and AWX9076 are constructed the same except for the following:

Mark	Symbol and Description	AWX9077	AWX9076
	Q5703	RT1N241M-TLB	Not used
	Q5706	RT1P241M-TLB	Not used
	D5702	1SS355-TRB	Not used
	C5706	CKSRYB103K50	Not used
	R5704, R5709	Not used	RS1/16S0R0J
	R5705, R5708, R5746	RS1/16S0R0J	Not used
	R5706	RS1/16S822J	Not used
	R5718	RS1/16S104J	Not used
	CN5706 3pin Connector	S3B-EH	Not used

PCB PARTS LIST FOR VSX-LX50/HYXJ5 UNLESS OTHER WISE NOTED

Mark	No.	Description	Part No.
		MAIN ASSY (AWK7975)	
		MISCELLANEOUS	
	J	663 JUMPER WIRE	D20PDD0605E
		A AUDIO IN ASSY	
		MISCELLANEOUS	
	IC	501 (A,262,69) 8CH E-VOL	R2S15205FP
	IC	701 (A,205,68) OP-AMP IC	BA4560RF
	IC	702 (A,220,73) OP-AMP IC	BA4560RF
	IC	703 (A,220,56) IC	TC4066BFT
	IC	741 (A,177,68) OP-AMP IC	BA4560RF
	IC	761 (A,191,68) OP-AMP IC	BA4560RF
	IC	781 (A,163,68) OP-AMP IC	BA4560RF
	IC	801 (A,264,170) OP-AMP IC	UPC4570G2
	IC	821 (A,264,139) OP-AMP IC	UPC4570G2
	IC	841 (A,264,155) OP-AMP IC	UPC4570G2
	IC	861 (A,264,123) OP-AMP IC	UPC4570G2
⚠	Q	661 (A,136,78) TRANSISTOR	2SD1858X
⚠	Q	662 (A,136,90) TRANSISTOR	2SB1238X
	Q	701 (A,224,50) TRANSISTOR	UMD2N
	D	591 (B,231,52) DIODE	DAN217U
⚠	D	661 (B,39,52) DIODE	1SR154-400
⚠	D	662 (B,34,52) DIODE	1SR154-400
⚠	D	663 (B,25,52) DIODE	1SR154-400
⚠	D	664 (B,30,52) DIODE	1SR154-400
	D	669 (B,127,75) DIODE	UDZS7R5(B)
	D	670 (B,127,87) DIODE	UDZS7R5(B)
	J	662 (A,85,59) 3P HOUSING WIRE ASSY	ADX7509
	CN	501 (A,258,24) 23P PLUG	XKP3071
	CN	507 (A,266,24) CONNECTOR	CKS1730
	CN	509 (A,234,48) 23P PLUG	XKP3071
	CN	511 (A,131,47) CONNECTOR	CKS1730
	CN	512 (A,220,24) 23P PLUG	XKP3071
	CN	513 (A,98,48) 23P PLUG	XKP3071
	CN	516 (A,39,24) 11P PLUG	XKP3065
	CN	520 (A,282,208) 17P SOCKET	XKP3079
	CN	521 (A,317,60) PIN JACK(4P)	AKB7172
	CN	522 (A,317,88) PIN JACK(4P)	AKB7172
	CN	524 (A,317,158) PIN JACK(4P)	AKB7172
	CN	525 (A,317,186) PIN JACK(4P)	AKB7172
	CN	526 (A,317,214) PIN JACK(4P)	AKB7172
	CN	661 (A,26,62) L-PLUG(10P)	KM200NA10L
		501 (A,150,71) PCB BINDER	VEF1040
		523 (A,317,123) PIN JACK(6P)	AKB7182
	Y	661 AWG14 BOARD IN	ADX7511
		664 (A,46,67) 6P CABLE HOLDER	51048-0600
		RESISTORS	
	R	501 (B,303,54)	RS1/16S331J
	R	502 (B,302,43)	RS1/16S331J
	R	503 (B,302,71)	RS1/16S222J
	R	504 (B,302,64)	RS1/16S222J
	R	505 (B,302,84)	RS1/16S331J
	R	506 (B,302,77)	RS1/16S331J
	R	507 (B,302,97)	RS1/16S331J
	R	508 (B,302,91)	RS1/16S331J
	R	509 (B,302,110)	RS1/16S331J
	R	510 (B,302,103)	RS1/16S331J
	R	511 (B,302,128)	RS1/16S222J
	R	512 (B,302,118)	RS1/16S222J
	R	513 (B,302,142)	RS1/16S331J
	R	514 (B,302,135)	RS1/16S331J
	R	515 (B,302,209)	RS1/16S331J
	R	516 (B,302,202)	RS1/16S331J
	R	517 (B,302,222)	RS1/16S331J
	R	518 (B,302,216)	RS1/16S331J
	R	519 (B,302,155)	RS1/16S222J
	R	520 (B,302,148)	RS1/16S222J
	R	521 (B,302,168)	RS1/16S331J
	R	522 (B,302,161)	RS1/16S331J
	R	523 (B,302,182)	RS1/16S331J
	R	524 (B,302,176)	RS1/16S331J
	R	525 (B,302,195)	RS1/16S331J
	R	526 (B,302,189)	RS1/16S331J
	R	527 (B,309,56)	RS1/16S474J
	R	528 (B,309,51)	RS1/16S474J
	R	529 (B,309,69)	RS1/16S474J
	R	530 (B,309,64)	RS1/16S474J
	R	531 (B,309,84)	RS1/16S474J
	R	532 (B,309,79)	RS1/16S474J
	R	533 (B,309,97)	RS1/16S474J
	R	534 (B,309,92)	RS1/16S474J
	R	535 (B,309,110)	RS1/16S474J
	R	536 (B,309,107)	RS1/16S474J
	R	537 (B,309,128)	RS1/16S474J
	R	538 (B,309,118)	RS1/16S474J
	R	539 (B,309,140)	RS1/16S474J
	R	540 (B,309,134)	RS1/16S474J
	R	541 (B,309,210)	RS1/16S474J
	R	542 (B,309,205)	RS1/16S474J
	R	543 (B,309,223)	RS1/16S474J
	R	544 (B,309,218)	RS1/16S474J
	R	545 (B,309,154)	RS1/16S474J
	R	546 (B,309,149)	RS1/16S474J
	R	547 (B,309,167)	RS1/16S474J
	R	548 (B,309,162)	RS1/16S474J
	R	549 (B,309,182)	RS1/16S474J
	R	550 (B,309,177)	RS1/16S474J
	R	551 (B,309,195)	RS1/16S474J
	R	552 (B,309,190)	RS1/16S474J
	R	561 (A,246,87)	RS1/16S472J
	R	562 (A,244,75)	RS1/16S472J
	R	563 (A,244,58)	RS1/16S102J
	R	564 (A,244,57)	RS1/16S102J
	R	565 (B,268,42)	RS1/16S0R0J
	R	566 (B,275,42)	RS1/16S0R0J
	R	571 (B,256,33)	RS1/16S0R0J
	R	572 (B,234,53)	RS1/16S0R0J
	R	601 (B,222,22)	RS1/16S0R0J
	R	663 (B,133,76)	RS1/16S472J
	R	664 (B,133,88)	RS1/16S472J
	R	665 (B,133,72)	RS1/16S101J
	R	666 (B,133,84)	RS1/16S101J
	R	701 (A,203,61)	RS1/16S473J
	R	702 (A,208,61)	RS1/16S473J
	R	703 (B,204,60)	RS1/16S332J
	R	704 (B,207,60)	RS1/16S332J

Mark	No.	Description	Part No.
R	705	(B,202,60)	RS1/16S332J
R	706	(B,209,60)	RS1/16S332J
R	707	(B,202,64)	RS1/16S392J
R	708	(B,209,64)	RS1/16S392J
R	709	(B,204,64)	RS1/16S472J
R	710	(B,207,64)	RS1/16S472J
R	711	(B,204,68)	RS1/16S272J
R	712	(B,207,68)	RS1/16S272J
R	713	(B,202,72)	RS1/16S331J
R	714	(B,209,72)	RS1/16S331J
R	715	(B,204,72)	RS1/16S474J
R	716	(B,207,72)	RS1/16S474J
R	719	(B,223,80)	RS1/16S0R0J
R	720	(B,216,80)	RS1/16S0R0J
R	721	(B,223,77)	RS1/16S472J
R	722	(B,216,77)	RS1/16S472J
R	723	(A,226,70)	RS1/16S472J
R	724	(A,213,70)	RS1/16S472J
R	725	(A,226,74)	RS1/16S122J
R	726	(A,213,74)	RS1/16S122J
R	727	(B,223,73)	RS1/16S392J
R	728	(B,216,73)	RS1/16S392J
R	731	(B,225,66)	RS1/16S101J
R	732	(B,214,66)	RS1/16S101J
R	733	(A,226,48)	RS1/16S473J
R	741	(A,175,61)	RS1/16S473J
R	742	(A,180,61)	RS1/16S473J
R	743	(B,176,60)	RS1/16S272J
R	744	(B,179,60)	RS1/16S332J
R	745	(B,174,60)	RS1/16S272J
R	746	(B,181,60)	RS1/16S562J
R	747	(B,174,64)	RS1/16S272J
R	748	(B,181,64)	RS1/16S393J
R	749	(B,176,64)	RS1/16S392J
R	750	(B,179,64)	RS1/16S182J
R	751	(B,176,68)	RS1/16S122J
R	752	(B,179,68)	RS1/16S362J
R	753	(B,174,72)	RS1/16S221J
R	754	(B,181,72)	RS1/16S121J
R	757	(B,172,79)	RS1/16S101J
R	758	(B,183,79)	RS1/16S101J
R	761	(A,189,61)	RS1/16S473J
R	762	(A,194,61)	RS1/16S473J
R	763	(B,190,60)	RS1/16S272J
R	764	(B,193,60)	RS1/16S272J
R	765	(B,188,60)	RS1/16S272J
R	766	(B,195,60)	RS1/16S272J
R	767	(B,188,64)	RS1/16S272J
R	768	(B,195,64)	RS1/16S272J
R	769	(B,190,64)	RS1/16S392J
R	770	(B,193,64)	RS1/16S392J
R	771	(B,190,68)	RS1/16S122J
R	772	(B,193,68)	RS1/16S122J
R	773	(B,188,72)	RS1/16S221J
R	774	(B,195,72)	RS1/16S221J
R	777	(B,186,79)	RS1/16S101J
R	778	(B,197,79)	RS1/16S101J
R	781	(A,161,61)	RS1/16S473J
R	782	(A,166,61)	RS1/16S473J
R	783	(B,162,60)	RS1/16S272J
R	784	(B,165,60)	RS1/16S272J
R	785	(B,160,60)	RS1/16S272J
R	786	(B,167,60)	RS1/16S272J
R	787	(B,160,64)	RS1/16S272J
R	788	(B,167,64)	RS1/16S272J
R	789	(B,162,64)	RS1/16S392J
R	790	(B,165,64)	RS1/16S392J
R	791	(B,162,68)	RS1/16S122J
R	792	(B,165,68)	RS1/16S122J
R	793	(B,160,72)	RS1/16S221J
R	794	(B,167,72)	RS1/16S221J
R	797	(B,158,79)	RS1/16S101J
R	798	(B,169,79)	RS1/16S101J
R	801	(B,262,165)	RS1/16S223J
R	802	(B,262,176)	RS1/16S223J
R	805	(A,266,165)	RS1/16S682J
R	806	(A,266,175)	RS1/16S682J
R	807	(A,269,168)	RS1/16S331J
R	808	(A,269,173)	RS1/16S331J
R	811	(A,263,165)	RS1/16S153J
R	812	(A,263,175)	RS1/16S153J
R	815	(B,262,194)	RS1/16S104J
R	816	(B,262,186)	RS1/16S104J
R	821	(B,262,134)	RS1/16S223J
R	822	(B,262,144)	RS1/16S223J
R	825	(A,266,134)	RS1/16S682J
R	826	(A,266,144)	RS1/16S682J
R	827	(A,269,137)	RS1/16S331J
R	828	(A,269,142)	RS1/16S331J
R	831	(A,263,134)	RS1/16S153J
R	832	(A,263,144)	RS1/16S153J
R	835	(B,275,194)	RS1/16S104J
R	836	(B,275,186)	RS1/16S104J
R	841	(B,262,149)	RS1/16S223J
R	842	(B,262,160)	RS1/16S223J
R	845	(A,266,150)	RS1/16S682J
R	846	(A,266,160)	RS1/16S682J
R	847	(A,269,152)	RS1/16S331J
R	848	(A,269,157)	RS1/16S331J
R	851	(A,263,150)	RS1/16S153J
R	852	(A,263,160)	RS1/16S153J
R	855	(B,269,194)	RS1/16S104J
R	856	(B,269,186)	RS1/16S104J
R	861	(B,262,118)	RS1/16S223J
R	862	(B,262,129)	RS1/16S223J
R	865	(A,266,118)	RS1/16S682J
R	866	(A,266,128)	RS1/16S682J
R	867	(A,269,121)	RS1/16S331J
R	868	(A,269,126)	RS1/16S331J
R	871	(A,263,118)	RS1/16S153J
R	872	(A,263,128)	RS1/16S153J
R	875	(B,282,194)	RS1/16S104J
R	876	(B,282,186)	RS1/16S104J
R	883	(A,253,116)	RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	501	(B,307,56)	CCSRCH101J50
C	502	(B,307,51)	CCSRCH101J50
C	503	(B,307,69)	CCSRCH221J50

Mark	No.	Description	Part No.
C	504 (B,307,64)		CCSRCH221J50
C	505 (B,307,84)		CCSRCH101J50
C	506 (B,307,79)		CCSRCH101J50
C	507 (B,307,97)		CCSRCH101J50
C	508 (B,307,92)		CCSRCH101J50
C	509 (B,307,110)		CCSRCH101J50
C	510 (B,307,107)		CCSRCH101J50
C	511 (B,307,128)		CCSRCH221J50
C	512 (B,307,118)		CCSRCH221J50
C	513 (B,307,140)		CCSRCH101J50
C	514 (B,307,134)		CCSRCH101J50
C	515 (B,307,210)		CCSRCH101J50
C	516 (B,307,205)		CCSRCH101J50
C	517 (B,307,223)		CCSRCH101J50
C	518 (B,307,218)		CCSRCH101J50
C	519 (B,307,154)		CCSRCH221J50
C	520 (B,307,149)		CCSRCH221J50
C	521 (B,307,167)		CCSRCH101J50
C	522 (B,307,162)		CCSRCH101J50
C	523 (B,307,182)		CCSRCH101J50
C	524 (B,307,177)		CCSRCH101J50
C	525 (B,307,195)		CCSRCH101J50
C	526 (B,307,190)		CCSRCH101J50
C	527 (B,297,49)		CCSRCH151J50
C	528 (B,298,44)		CCSRCH151J50
C	531 (B,297,83)		CCSRCH151J50
C	532 (B,298,79)		CCSRCH151J50
C	533 (B,297,96)		CCSRCH151J50
C	534 (B,298,92)		CCSRCH151J50
C	535 (B,297,109)		CCSRCH151J50
C	536 (B,298,105)		CCSRCH151J50
C	539 (B,297,141)		CCSRCH151J50
C	540 (B,298,137)		CCSRCH151J50
C	541 (B,297,209)		CCSRCH101J50
C	542 (B,298,203)		CCSRCH101J50
C	543 (B,300,222)		CCSRCH101J50
C	544 (B,300,216)		CCSRCH101J50
C	547 (B,297,167)		CCSRCH151J50
C	548 (B,298,163)		CCSRCH151J50
C	549 (B,297,182)		CCSRCH101J50
C	550 (B,298,177)		CCSRCH101J50
C	551 (B,297,194)		CCSRCH101J50
C	552 (B,297,190)		CCSRCH101J50
C	553 (A,300,51)	ELECT. CAPACITOR	CEAT470M25
C	554 (A,300,42)	ELECT. CAPACITOR	CEAT470M25
C	555 (A,300,73)		CEAT100M50
C	556 (A,300,64)		CEAT100M50
C	557 (A,300,86)	ELECT. CAPACITOR	CEAT470M25
C	558 (A,300,77)	ELECT. CAPACITOR	CEAT470M25
C	559 (A,300,99)	ELECT. CAPACITOR	CEAT470M25
C	560 (A,300,90)	ELECT. CAPACITOR	CEAT470M25
C	561 (A,300,112)	ELECT. CAPACITOR	CEAT470M25
C	562 (A,300,103)	ELECT. CAPACITOR	CEAT470M25
C	563 (A,300,131)		CEAT100M50
C	564 (A,300,120)		CEAT100M50
C	565 (A,300,144)	ELECT. CAPACITOR	CEAT470M25
C	566 (A,300,135)	ELECT. CAPACITOR	CEAT470M25
C	567 (A,300,210)	ELECT. CAPACITOR	CEAT470M25
C	568 (A,300,201)	ELECT. CAPACITOR	CEAT470M25
C	569 (A,293,210)	ELECT. CAPACITOR	CEAT470M25
C	570 (A,293,201)	ELECT. CAPACITOR	CEAT470M25
C	571 (A,300,157)		CEAT100M50
C	572 (A,300,148)		CEAT100M50
C	573 (A,300,170)	ELECT. CAPACITOR	CEAT470M25
C	574 (A,300,161)	ELECT. CAPACITOR	CEAT470M25
C	575 (A,300,184)	ELECT. CAPACITOR	CEAT470M25
C	576 (A,300,175)	ELECT. CAPACITOR	CEAT470M25
C	577 (A,300,197)	ELECT. CAPACITOR	CEAT470M25
C	578 (A,300,188)	ELECT. CAPACITOR	CEAT470M25
C	579 (A,270,87)		CEAT101M16
C	580 (A,268,95)		CEAT101M16
C	581 (A,264,87)		CEAT101M16
C	582 (A,262,95)		CEAT101M16
C	583 (A,258,87)		CEAT101M16
C	584 (A,256,95)		CEAT101M16
C	585 (A,252,87)		CEAT101M16
C	586 (A,250,95)		CEAT101M16
C	587 (A,247,84)		CKSRYB473K50
C	588 (A,246,84)		CKSRYB154K10
C	589 (A,244,84)		CKSRYB223K50
C	590 (A,247,76)		CKSRYB473K50
C	591 (A,247,74)		CKSRYB154K10
C	592 (A,244,73)		CKSRYB223K50
C	593 (A,248,59)		CCSRCH101J50
C	594 (A,247,59)		CCSRCH101J50
C	595 (A,247,79)		CKSRYB103K50
C	596 (A,247,78)		CKSRYB103K50
C	599 (A,269,35)		CEJQ100M25
C	600 (A,274,35)		CEJQ100M25
C	641 (B,309,114)		CKSRYB103K50
C	642 (B,309,88)		CKSRYB103K50
C	643 (B,309,214)		CKSRYB103K50
C	644 (B,309,158)		CKSRYB103K50
C	645 (B,309,186)		CKSRYB103K50
C	661 (A,50,48)	ELECT. CAPACITOR	CEAT222M25
C	662 (A,64,48)	ELECT. CAPACITOR	CEAT222M25
C	673 (A,130,76)		CEAT2R2M50
C	674 (A,130,86)		CEAT2R2M50
C	675 (A,143,76)		CEAT100M50
C	676 (A,143,86)		CEAT100M50
C	701 (A,202,53)		CEAT2R2M50
C	702 (A,208,53)		CEAT2R2M50
C	703 (A,203,62)		CCSRCH471J50
C	704 (A,208,62)		CCSRCH471J50
C	705 (A,203,64)		CCSRCH331J50
C	706 (A,208,64)		CCSRCH331J50
C	707 (B,202,68)		CCSRCH391J50
C	708 (B,209,68)		CCSRCH391J50
C	709 (A,202,76)		CEAT100M50
C	710 (A,209,76)		CEAT100M50
C	713 (A,223,69)		CEAT100M50
C	714 (A,216,69)		CEAT100M50
C	717 (A,208,72)		CKSRYB103K50
C	718 (A,203,72)		CKSRYB103K50
C	719 (A,217,77)		CKSRYB104K50
C	720 (A,222,77)		CKSRYB104K50
C	721 (A,224,53)		CKSRYB103K50
C	722 (A,215,56)		CKSRYB103K50
C	741 (A,174,53)		CEAT2R2M50
C	742 (A,180,53)		CEAT2R2M50

Mark	No.	Description	Part No.
C	743 (A,175,62)		CCSRCH331J50
C	744 (A,180,62)		CKSRYB223K50
C	745 (A,175,64)		CCSRCH331J50
C	746 (A,180,64)		CKSRYB103K50
C	747 (B,174,68)		CCSRCH471J50
C	748 (B,181,68)		CKSRYB682K50
C	749 (A,174,76)		CEAT100M50
C	750 (A,181,76)		CEAT100M50
C	751 (B,176,79)		CKSRYB472K50
C	752 (B,179,79)		CKSRYB472K50
C	753 (A,180,72)		CKSRYB103K50
C	754 (A,175,72)		CKSRYB103K50
C	761 (A,188,53)		CEAT2R2M50
C	762 (A,194,53)		CEAT2R2M50
C	763 (A,189,62)		CCSRCH331J50
C	764 (A,194,62)		CCSRCH331J50
C	765 (A,189,64)		CCSRCH331J50
C	766 (A,194,64)		CCSRCH331J50
C	767 (B,188,68)		CCSRCH471J50
C	768 (B,195,68)		CCSRCH471J50
C	769 (A,188,76)		CEAT100M50
C	770 (A,195,76)		CEAT100M50
C	771 (B,190,79)		CKSRYB472K50
C	772 (B,193,79)		CKSRYB472K50
C	773 (A,194,72)		CKSRYB103K50
C	774 (A,189,72)		CKSRYB103K50
C	781 (A,160,53)		CEAT2R2M50
C	782 (A,166,53)		CEAT2R2M50
C	783 (A,161,62)		CCSRCH331J50
C	784 (A,166,62)		CCSRCH331J50
C	785 (A,161,64)		CCSRCH331J50
C	786 (A,166,64)		CCSRCH331J50
C	787 (B,160,68)		CCSRCH471J50
C	788 (B,167,68)		CCSRCH471J50
C	789 (A,160,76)		CEAT100M50
C	790 (A,167,76)		CEAT100M50
C	791 (B,162,79)		CKSRYB472K50
C	792 (B,165,79)		CKSRYB472K50
C	793 (A,166,72)		CKSRYB103K50
C	794 (A,161,72)		CKSRYB103K50
C	801 (A,253,108)		CEAT4R7M50
C	802 (A,253,101)		CEAT4R7M50
C	805 (A,263,164)		CCSRCH101J50
C	806 (A,263,176)		CCSRCH101J50
C	807 (A,260,192)	ELECT. CAPACITOR	CEAT470M25
C	808 (A,260,185)	ELECT. CAPACITOR	CEAT470M25
C	809 (A,260,168)		CKSRYB103K50
C	810 (A,260,173)		CKSRYB103K50
C	821 (A,265,108)		CEAT4R7M50
C	822 (A,265,101)		CEAT4R7M50
C	825 (A,263,133)		CCSRCH101J50
C	826 (A,263,145)		CCSRCH101J50
C	827 (A,273,192)	ELECT. CAPACITOR	CEAT470M25
C	828 (A,273,185)	ELECT. CAPACITOR	CEAT470M25
C	829 (A,260,137)		CKSRYB103K50
C	830 (A,260,142)		CKSRYB103K50
C	841 (A,259,108)		CEAT4R7M50
C	842 (A,259,101)		CEAT4R7M50
C	845 (A,263,148)		CCSRCH101J50
C	846 (A,263,161)		CCSRCH101J50
C	847 (A,266,192)	ELECT. CAPACITOR	CEAT470M25
C	848 (A,266,185)	ELECT. CAPACITOR	CEAT470M25
C	849 (A,260,152)		CKSRYB103K50
C	850 (A,260,157)		CKSRYB103K50
C	861 (A,271,108)		CEAT4R7M50
C	862 (A,271,101)		CEAT4R7M50
C	865 (A,263,117)		CCSRCH101J50
C	866 (A,263,129)		CCSRCH101J50
C	867 (A,279,192)	ELECT. CAPACITOR	CEAT470M25
C	868 (A,279,185)	ELECT. CAPACITOR	CEAT470M25
C	869 (A,260,121)		CKSRYB103K50
C	870 (A,260,126)		CKSRYB103K50

B 12V-REG ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	661 (A,12,90)	REGULATOR IC	NJM78M12FA
⚠ IC	662 (A,39,90)	REGULATOR IC	NJM79M12FA
D	665 (B,28,90)	CHIP DIODE	RB501V-40
D	666 (B,56,88)	CHIP DIODE	RB501V-40
	663 (A,46,77)	6P CABLE HOLDER	51048-0600

CAPACITORS

C	667 (B,11,86)		CKSRYB103K50
C	668 (B,39,86)		CKSRYB103K50
C	669 (A,25,92)		CEAT221M25
C	670 (A,52,92)		CEAT221M25

C MAIN CONTROL ASSY

MISCELLANEOUS

IC	101 (A,152,186)	CPU	PEG378A8
IC	103 (A,114,172)	PORT EXPANDER IC	BU4094BCFV
IC	104 (A,127,190)	RESET IC	BU4842F
IC	106 (A,126,200)	IC	TC74VHCT08AFTS1
IC	107 (A,101,131)	IC	TC74VHCT125AFTS1
IC	108 (A,99,165)	OCTAL BUS BUFFER IC	TC74VHCT244AFTS1
IC	109 (A,123,174)	LOGIC IC	TC74VHCT32AFT
IC	251 (A,110,192)	RDS DECORDER IC	LC72725KM
IC	253 (A,178,185)	EEPROM	BR24L16FV-W
IC	301 (A,157,130)	CPU	PEG117A
IC	302 (A,184,132)	FLASH ROM	AYW7168
IC	304 (A,95,113)	IC	TC74VHCT125AFTS1
IC	305 (A,130,139)	IC	TC74VHC02FTS1
IC	306 (A,94,131)	IC	TC74VHC125FTS1
IC	307 (A,160,210)	IC	TC74VHC08FTS1
IC	308 (A,114,132)	IC	TC74LCX244FTS1
⚠ IC	310 (A,198,141)	IC	NJM2391DL1-33
Q	101 (B,105,182)	DIGITAL TR(SC-70)	RT1N431M
Q	103 (B,137,182)	CHIP TR(DUAL)	RN2901
Q	104 (A,120,194)	CHIP TR (PNP X 2)	UMB1N
Q	105 (B,189,204)	CHIP TR (PNP X 2)	UMB1N
Q	106 (B,190,196)	CHIP TR (PNP X 2)	UMB1N
Q	107 (B,93,148)	TRANSISTOR	RT1N241M
Q	108 (B,94,142)	CHIP TR (PNP X 2)	UMB1N
Q	109 (A,98,179)	DIGITAL TR(SC-70)	RT1P241M
Q	110 (A,104,179)	DIGITAL TR(SC-70)	RT1P241M
Q	111 (B,102,174)	TRANSISTOR	2SA1576A
Q	301 (B,215,147)	TRANSISTOR	2SA1036K
Q	302 (B,212,137)	TRANSISTOR	RT1N241M
D	101 (B,137,176)	DIODE	DAN202U

Mark	No.	Description	Part No.
D	102	(A,203,194) DIODE	DAN202U
D	103	(A,189,188) DIODE	1SS355
D	104	(B,186,185) DIODE	DAP202U
D	105	(B,186,189) DIODE	DAN202U
D	106	(B,189,212) DIODE	UDZS5R1(B)
D	107	(A,117,193) DIODE	DAN202U
D	108	(A,200,193) DIODE	RB520S-30
D	114	(B,101,144) DIODE	1SS355
D	291	(A,30,137) DIODE	1SS355
D	301	(B,214,142) DIODE	DAN202U
D	302	(A,190,119) CHIP DIODE	RB501V-40
L	101	(B,194,178) CHIP SOLID INDUCTOR	ATL7002
L	102	(B,200,205) CHIP SOLID INDUCTOR	ATL7002
L	281	(B,31,202) CHIP SOLID INDUCTOR	QTL1013
L	291	(A,26,138) INDUCTOR	CTF1473
L	292	(A,26,137) INDUCTOR	CTF1473
L	293	(A,26,135) INDUCTOR	CTF1473
L	294	(A,26,134) INDUCTOR	CTF1473
L	295	(A,29,144) INDUCTOR	CTF1473
L	301	(A,191,152) CHIP SOLID INDUCTOR	QTL1013
L	381	(B,74,189) CHIP SOLID INDUCTOR	QTL1013
JA	281	(A,17,170) OPT. LINK IN	AKS7001
JA	282	(A,17,183) OPT. LINK IN	AKS7001
JA	283	(A,17,197) OPT. LINK IN	AKS7001
JA	284	(A,17,210) OPT. LINK OUT	AKS7002
JA	291	(A,9,131) MINI JACK(4P) /W SW	XKN3015
JA	292	(A,11,143) JACK REMOCON JACK	RKN1004
KN	281	(A,13,153) SCREW PLATE	VNE1948
X	101	(A,134,187) CERAMIC RESONATOR	XSS3004
X	251	(A,107,201) CRYSTAL RESONATOR	ASS7004
X	301	(A,144,131) CERAMIC RESONATOR	XSS3004
CN	101	(A,208,215) CONNECTOR	CKS3394
CN	102	(A,223,129) 9P JUMPER CONNECTOR	52147-0910
CN	103	(A,197,187) CONNECTOR	CKS3384
CN	104	(A,60,177) 11P PLUG	XKP3065
CN	106	(A,111,212) 23P SOCKET	XKP3082
CN	107	(A,31,177) 13P PLUG	XKP3066
CN	108	(A,29,153) 13P PLUG	XKP3066
CN	109	(A,53,153) 15P PLUG	XKP3067
CN	110	(A,56,130) 11P PLUG	XKP3065
CN	111	(A,28,130) 13P PLUG	XKP3066
CN	112	(A,64,102) 23P SOCKET	XKP3082
CN	113	(A,94,180) CONNECTOR	CKS3382
CN	281	(A,33,209) 23P PLUG	XKP3071
CN	301	(A,170,98) PLUG	CKS1764
CN	302	(A,199,102) 23P SOCKET	XKP3082
	102	(A,218,163) PCB BINDER	VEF1040
	101	(A,218,170) PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	101	(A,138,195)	RAB4C101J
R	102	(A,138,190)	RS1/16S101J
R	103	(A,132,168)	RAB4C101J
R	104	(A,138,174)	RAB4C101J
R	105	(A,146,170)	RAB4C101J
R	106	(A,151,170)	RAB4C101J
R	107	(A,165,178)	RAB4C101J
R	108	(A,168,181)	RAB4C101J
R	109	(A,152,208)	RAB4C101J
R	110	(A,135,190)	RS1/16S101J
R	111	(A,134,195)	RS1/16S104J
R	112	(A,134,193)	RS1/16S101J
R	113	(A,139,181)	RS1/16S101J
R	114	(A,133,182)	RS1/16S101J
R	115	(B,145,182)	RS1/16S101J
R	116	(B,111,180)	RS1/16S473J
R	117	(A,137,193)	RS1/16S103J
R	118	(B,150,188)	RS1/16S512J
R	120	(A,132,188)	RS1/16S101J
R	121	(A,130,190)	RS1/16S104J
R	123	(B,145,187)	RS1/16S473J
R	124	(A,138,183)	RS1/16S101J
R	125	(A,127,184)	RS1/16S101J
R	126	(A,133,180)	RS1/16S101J
R	127	(A,133,179)	RS1/16S101J
R	128	(B,107,183)	RS1/16S222J
R	129	(B,105,174)	RS1/16S222J
R	133	(A,130,184)	RS1/16S104J
R	134	(B,155,164)	RS1/16S104J
R	136	(B,152,174)	RS1/16S222J
R	137	(B,142,160)	RS1/16S474J
R	138	(B,154,179)	RS1/16S104J
R	140	(A,144,176)	RS1/16S472J
R	141	(B,138,164)	RS1/16S101J
R	142	(A,163,173)	RS1/16S104J
R	145	(A,167,184)	RS1/16S101J
R	151	(A,142,204)	RS1/16S473J
R	153	(A,141,204)	RS1/16S473J
R	155	(A,148,208)	RS1/16S222J
R	157	(B,179,202)	RS1/16S104J
R	160	(A,136,201)	RS1/16S101J
R	161	(B,200,201)	RS1/16S0R0J
R	162	(B,195,213)	RS1/16S223J
R	164	(B,181,184)	RS1/16S105J
R	166	(B,188,185)	RS1/16S105J
R	169	(A,125,180)	RS1/16S473J
R	170	(A,115,167)	RS1/16S473J
R	172	(A,112,167)	RS1/16S561J
R	178	(B,106,189)	RS1/16S470J
R	180	(A,216,120)	RAB4C473J
R	181	(A,105,132)	RS1/16S101J
R	182	(A,102,137)	RS1/16S182J
R	183	(A,101,137)	RS1/16S104J
R	184	(A,99,137)	RS1/16S104J
R	185	(A,101,122)	RS1/16S101J
R	186	(A,96,125)	RS1/16S104J
R	187	(A,103,125)	RS1/16S0R0J
R	188	(A,122,180)	RS1/16S0R0J
R	189	(A,96,171)	RS1/16S104J
R	190	(A,98,171)	RS1/16S104J
R	191	(A,101,171)	RS1/16S104J
R	192	(A,100,171)	RS1/16S104J
R	193	(A,91,125)	RS1/16S104J
R	194	(A,117,179)	RS1/16S101J
R	251	(A,116,198)	RS1/16S473J
R	252	(A,104,195)	RS1/16S102J
R	253	(A,106,184)	RS1/16S102J
R	254	(A,106,186)	RS1/16S102J
R	262	(A,174,182)	RS1/16S472J

Mark	No.	Description	Part No.
R	263 (A,175,182)		RS1/16S103J
R	264 (A,172,185)		RS1/16S471J
R	265 (A,172,186)		RS1/16S471J
R	281 (B,24,170)		RS1/16S101J
R	282 (B,23,183)		RS1/16S101J
R	283 (B,24,197)		RS1/16S101J
R	301 (A,145,137)		RAB4C101J
R	302 (A,135,134)		RAB4C101J
R	305 (A,142,121)		RAB4C101J
R	306 (B,158,128)		RS1/16S101J
R	307 (A,156,142)		RAB4C101J
R	308 (A,146,142)		RAB4C101J
R	309 (A,153,119)		RS1/16S101J
R	310 (A,139,130)		RS1/16S473J
R	311 (B,153,139)		RS1/16S472J
R	312 (A,140,140)		RS1/16S473J
R	313 (A,135,144)		RS1/16S101J
R	314 (A,138,138)		RS1/16S101J
R	315 (A,125,135)		RS1/16S101J
R	316 (A,137,140)		RS1/16S473J
R	317 (B,147,134)		RS1/16S473J
R	318 (B,147,113)		RS1/16S473J
R	322 (B,156,129)		RS1/16S101J
R	323 (B,160,128)		RS1/16S101J
R	324 (B,168,114)		RS1/16S101J
R	325 (B,163,115)		RS1/16S473J
R	326 (B,161,119)		RS1/16S473J
R	327 (B,166,118)		RS1/16S473J
R	328 (A,164,117)		RS1/16S101J
R	329 (A,166,117)		RS1/16S101J
R	330 (A,165,120)		RS1/16S101J
R	334 (B,158,140)		RS1/16S473J
R	335 (B,163,129)		RS1/16S101J
R	336 (B,151,137)		RS1/16S101J
R	337 (B,147,136)		RS1/16S473J
R	340 (B,180,142)		RS1/16S473J
R	344 (B,122,157)		RS1/16S104J
R	345 (A,125,167)		RS1/16S104J
R	346 (A,100,116)		RS1/16S101J
R	347 (B,211,147)		RS1/16S473J
R	348 (B,212,143)		RS1/16S222J
R	349 (B,110,132)		RS1/16S104J
R	350 (B,104,136)		RS1/16S104J
R	351 (B,112,132)		RS1/16S104J
R	352 (B,108,146)		RS1/16S104J
R	353 (A,111,125)		RS1/16S104J
R	354 (A,110,125)		RS1/16S104J
R	355 (B,115,129)		RS1/16S104J
R	357 (B,90,139)		RS1/16S104J
R	361 (B,162,113)		RS1/16S331J
R	362 (B,151,113)		RS1/16S331J
R	363 (B,141,104)		RS1/16S331J
R	364 (B,171,115)		RS1/16S331J
R	385 (B,92,107)		RS1/16S0R0J
R	9001(A,227,111)		RS1/16S0R0J
R	9003(A,222,115)		RS1/16S0R0J
R	9005(A,221,117)		RS1/16S0R0J
R	9010(A,219,114)		RS1/16S0R0J

Mark	No.	Description	Part No.
CAPACITORS			
C	101 (B,195,174)		CKSRYB103K50
C	102 (A,197,176)	ELECTR.CAPACITOR	CEAT102M10
C	103 (B,192,177)		CKSRYB103K50
C	104 (A,147,197)		CKSRYB104K16
C	106 (A,124,192)		CKSRYB105K16
C	108 (A,137,186)		CKSRYB104K16
C	110 (B,148,180)		CKSRYB472K50
C	113 (A,165,185)		CKSRYB104K16
C	118 (A,110,176)		CKSRYB104K16
C	119 (A,185,210)		CEAT100M50
C	120 (B,184,184)		CKSRYB473K25
C	121 (B,191,185)		CKSRYB473K25
C	125 (A,100,188)		CEAT471M6R3
C	127 (A,122,202)		CKSRYB104K16
C	128 (A,97,131)		CKSRYB104K16
C	129 (A,94,166)		CKSRYB104K16
C	130 (A,120,174)		CKSRYB104K16
C	139 (A,110,169)		CCSRCH561J50
C	251 (A,111,182)		CEAT100M50
C	253 (A,114,187)		CCSRCH561J50
C	254 (A,118,205)		CEAT101M10
C	255 (A,112,197)		CKSRYB102K50
C	256 (B,112,204)		CCSRCH270J50
C	257 (B,109,204)		CCSRCH270J50
C	260 (A,109,185)		CKSRYB472K50
C	262 (A,178,182)		CKSRYB103K50
C	281 (B,23,175)		CKSRYB104K16
C	282 (B,23,187)		CKSRYB104K16
C	283 (B,22,203)		CKSRYB104K16
C	284 (B,22,211)		CKSRYB104K16
C	285 (A,31,198)		CEAT101M10
C	293 (B,24,159)		CKSRYB104K16
C	301 (A,208,143)	ELECTR.CAPACITOR	CEAT102M10
C	302 (B,204,144)		CKSRYB104K16
C	304 (A,199,131)		CEAT331M10
C	305 (A,142,128)		CKSRYB104K16
C	307 (A,172,130)		CKSRYB104K16
C	309 (A,152,142)		CKSRYB104K16
C	311 (A,184,145)		CKSRYB104K16
C	315 (A,92,113)		CKSRYB104K16
C	316 (A,126,140)		CKSRYB104K16
C	317 (A,90,132)		CKSRYB104K16
C	318 (A,164,209)		CKSRYB104K16
C	319 (A,110,135)		CKSRYB104K16

D GUARD-C ASSY

GUARD-C Assy has no service part.

E GUARD-F ASSY

MISCELLANEOUS

	921 (A,245,238)	PCB BINDER	VEF1040

G DSP ASSY

MISCELLANEOUS

IC	101 (A,58,43)	DSP IC	ADSP-21366KBCZ-1AA
IC	103 (A,17,46)	LOGIC IC (LATCHES)	TC74VHC573FTS1

Mark	No.	Description	Part No.
	IC 104	(B,17,21) LOGIC IC (LATCHES)	TC74VHC573FTS1
	IC 105	(B,24,16) 2 TO 4 LINE DECODER	TC7W139FU
	IC 106	(A,11,29) FLASH ROM	AYW7167
	IC 107	(A,34,52) SRAM(4M)	CY7C1049D3310VXI
	IC 109	(B,9,20) 1 CHIP OR GATE	TC7SH32FUS1
	IC 201	(A,113,38) DSP IC	DSPC56371AF180
	IC 291	(B,146,42) IC	TC74VHC08FTS1
	IC 301	(A,191,37) DA I/F TRANSCEIVER	AK4114VQ
	IC 401	(A,154,29) AUDIO 8CH DAC	AK4359VF
	IC 481	(A,176,28) AD CONVERTER IC	AK5358AET
	IC 551	(A,106,23) LOGIC IC	TC7WHU04FU
	IC 552	(A,93,16) LOGIC IC	TC7SHU04FUS1
	IC 651	(A,163,44) IC	TC74VHC157FTS1
	IC 701	(A,164,60) LIPSYNC IC	ML87V5002
	IC 751	(B,164,60) LIPSYNC IC	ML87V5002
⚠	IC 901	(A,48,16) DC/DC CONVERTER IC	BD9107FVM
⚠	IC 903	(A,208,28) REGURATOR IC	PQ1LAX95MSPQ
⚠	IC 904	(B,192,27) REGURATOR IC	PQ1LAX95MSPQ
	D 401	(B,167,23) DIODE	MA152WA
	D 402	(A,164,20) DIODE	MA152WK
	L 101	(A,70,40) CHIP SOLID INDUCTOR	QTL1013
	L 103	(A,45,42) CHIP SOLID INDUCTOR	QTL1013
	L 104	(A,20,52) CHIP SOLID INDUCTOR	QTL1013
	L 105	(B,13,16) CHIP SOLID INDUCTOR	QTL1013
	L 106	(B,27,20) CHIP SOLID INDUCTOR	QTL1013
	L 107	(B,13,36) CHIP SOLID INDUCTOR	QTL1013
	L 108	(B,34,55) CHIP SOLID INDUCTOR	QTL1013
	L 201	(B,106,31) CHIP SOLID INDUCTOR	QTL1013
	L 202	(A,127,41) CHIP SOLID INDUCTOR	ATL7002
	L 203	(A,117,26) CHIP SOLID INDUCTOR	ATL7002
	L 291	(B,151,42) CHIP SOLID INDUCTOR	QTL1013
	L 301	(B,185,41) CHIP SOLID INDUCTOR	QTL1013
	L 302	(A,180,35) CHIP SOLID INDUCTOR	QTL1013
	L 401	(B,160,25) CHIP SOLID INDUCTOR	QTL1013
	L 481	(B,169,32) CHIP SOLID INDUCTOR	QTL1013
	L 482	(B,182,26) CHIP SOLID INDUCTOR	QTL1013
	L 551	(A,109,23) CHIP SOLID INDUCTOR	QTL1013
	L 651	(A,159,40) CHIP SOLID INDUCTOR	QTL1013
	L 701	(A,152,66) CHIP SOLID INDUCTOR	QTL1013
	L 751	(B,186,55) CHIP SOLID INDUCTOR	QTL1013
	L 901	(B,195,22) CHIP SOLID INDUCTOR	ATL7002
	L 902	(B,188,23) CHIP SOLID INDUCTOR	ATL7002
	L 903	(B,182,24) CHIP SOLID INDUCTOR	ATL7002
	L 905	(A,63,22) CHIP BEADS	ATL7010
	L 906	(A,47,23) POWER INDUCTOR	ATH7047
	JA 351	(A,225,22) JACK	AKB7131
	X 551	(A,98,22) CRYSTAL RESONATOR	XSS3003
	CN301	(A,185,47) 10P CONNECTOR	VKN1414
	CN401	(A,165,15) 23P SOCKET	XKP3083
	CN801	(A,141,61) B TO B CONNECTOR 30P	VKN1627
	CN901	(A,173,11) PLUG	CKS1764
	CN951	(A,128,15) 23P SOCKET	XKP3083

RESISTORS

	R 103	(A,50,45)	RS1/16SS101J
	R 104	(A,50,47)	RS1/16SS101J
	R 106	(A,51,34) RESISTOR ARRAY	RAB4CQ472J
	R 107	(A,54,51)	RS1/16SS472J
	R 108	(A,56,34)	RS1/16SS472J
	R 109	(A,54,34)	RS1/16SS101J
	R 111	(A,53,51)	RS1/16SS472J
	R 112	(A,56,51)	RS1/16SS101J
	R 113	(A,57,51)	RS1/16SS101J
	R 114	(A,58,51)	RS1/16SS101J
	R 115	(A,59,51)	RS1/16SS220J
	R 116	(A,58,34) RESISTOR ARRAY	RAB4CQ220J
	R 117	(A,60,51)	RS1/16SS220J
	R 118	(A,61,51)	RS1/16SS471J
	R 119	(A,61,34) RESISTOR ARRAY	RAB4CQ220J
	R 120	(A,63,34)	RS1/16SS470J
	R 121	(A,63,51) RESISTOR ARRAY	RAB4CQ101J
	R 122	(A,65,34)	RS1/16SS470J
	R 123	(A,66,38)	RS1/16SS220J
	R 124	(A,66,36) RESISTOR ARRAY	RAB4CQ220J
	R 125	(A,66,40) RESISTOR ARRAY	RAB4CQ220J
	R 126	(A,66,47) RESISTOR ARRAY	RAB4CQ220J
	R 127	(A,46,39)	RS1/16SS472J
	R 128	(A,49,38)	RS1/16SS472J
	R 129	(A,45,45)	RS1/16SS472J
	R 132	(A,50,44)	RS1/16SS101J
	R 134	(A,50,46)	RS1/16SS101J
	R 136	(A,50,48)	RS1/16SS101J
	R 138	(A,50,39)	RS1/16SS101J
	R 139	(A,66,44)	RS1/16SS101J
	R 140	(A,66,43)	RS1/16SS101J
	R 141	(B,14,47) RESISTOR ARRAY	RAB4CQ470J
	R 142	(B,14,44) RESISTOR ARRAY	RAB4CQ470J
	R 143	(B,16,26) RESISTOR ARRAY	RAB4CQ470J
	R 144	(B,18,26) RESISTOR ARRAY	RAB4CQ470J
	R 145	(B,21,45) RESISTOR ARRAY	RAB4CQ470J
	R 146	(B,21,47) RESISTOR ARRAY	RAB4CQ470J
	R 147	(B,16,15)	RS1/16SS470J
	R 148	(B,19,15) RESISTOR ARRAY	RAB4CQ470J
	R 149	(B,24,21)	RS1/16SS470J
	R 150	(B,23,21)	RS1/16SS470J
	R 153	(B,11,19)	RS1/16SS470J
	R 154	(B,10,23)	RS1/16SS472J
	R 159	(A,26,47)	RS1/16SS220J
	R 160	(A,41,56)	RS1/16SS0R0J
	R 163	(A,16,41)	RS1/16SS220J
	R 164	(B,7,23)	RS1/16SS0R0J
	R 201	(A,116,48) RESISTOR ARRAY	RAB4CQ101J
	R 202	(B,116,42) RESISTOR ARRAY	RAB4CQ103J
	R 207	(B,114,42)	RS1/16SS473J
	R 209	(B,109,33)	RS1/16SS472J
	R 212	(B,108,35)	RS1/16SS473J
	R 214	(A,102,36)	RS1/16SS101J
	R 215	(B,102,34)	RS1/16SS101J
	R 216	(A,102,34)	RS1/16SS101J
	R 217	(B,102,33)	RS1/16SS101J
	R 218	(B,102,31)	RS1/16SS101J
	R 219	(B,99,31)	RS1/16SS472J
	R 220	(A,110,27)	RS1/16SS101J
	R 222	(B,108,33)	RS1/16SS101J
	R 226	(B,116,33)	RS1/16SS473J
	R 228	(B,109,30)	RS1/16SS472J
	R 233	(B,124,32)	RS1/16SS470J
	R 237	(B,121,40)	RS1/16SS470J
	R 238	(A,124,43) RESISTOR ARRAY	RAB4CQ470J

Mark	No.	Description	Part No.
R	244 (A,121,49)		RS1/16SS470J
R	246 (A,123,46)		RS1/16SS470J
R	248 (A,119,27)		RS1/16SS470J
R	250 (A,119,28)		RS1/16SS470J
R	261 (B,121,31)		RS1/16SS222J
R	291 (A,148,45)		RS1/16SS220J
R	292 (A,146,45)		RS1/16SS220J
R	293 (B,139,41)		RS1/16SS220J
R	294 (B,139,43)		RS1/16SS220J
R	296 (A,151,45)		RS1/16SS220J
R	297 (A,149,45)		RS1/16SS220J
R	302 (B,193,44)	RESISTOR ARRAY	RAB4CQ104J
R	307 (B,195,38)		RS1/16SS0R0J
R	311 (A,184,38)		RS1/16SS101J
R	312 (A,185,34)		RS1/16SS470J
R	313 (A,185,32)		RS1/16SS101J
R	314 (B,186,34)		RS1/16SS101J
R	315 (B,186,33)		RS1/16SS101J
R	317 (A,189,28)		RS1/16SS470J
R	318 (A,191,30)		RS1/16SS470J
R	320 (A,199,33)		RS1/16S0R0J
R	321 (A,196,30)	RESISTOR ARRAY	RAB4CQ101J
R	324 (B,193,32)		RS1/16SS103J
R	325 (A,200,37)	CHIP RESISTOR	RS1/16SS1802F
R	351 (B,200,32)		RS1/16SS750J
R	352 (B,200,38)		RS1/16SS750J
R	361 (B,195,36)		RS1/16SS100J
R	362 (B,198,38)		RS1/16SS100J
R	401 (A,157,34)		RS1/16SS470J
R	402 (A,162,36)		RS1/16SS470J
R	404 (A,153,35)	RESISTOR ARRAY	RAB4CQ101J
R	407 (B,152,32)		RS1/16S4R7J
R	408 (A,146,19)		RS1/16SS101J
R	409 (A,148,19)		RS1/16SS101J
R	410 (A,150,19)		RS1/16SS101J
R	411 (A,152,19)		RS1/16SS101J
R	412 (A,154,19)		RS1/16SS101J
R	413 (A,156,19)		RS1/16SS101J
R	414 (A,158,19)		RS1/16SS101J
R	415 (A,160,19)		RS1/16SS101J
R	481 (A,180,29)		RS1/16SS101J
R	482 (A,176,34)		RS1/16SS470J
R	483 (A,175,34)		RS1/16SS470J
R	503 (A,201,49)		RS1/16SS0R0J
R	551 (A,100,25)		RS1/16SS105J
R	552 (A,97,25)		RS1/16SS471J
R	554 (A,104,22)		RS1/16SS220J
R	555 (A,92,18)		RS1/16SS220J
R	557 (B,108,23)		RS1/16SS220J
R	613 (A,169,45)		RS1/16SS0R0J
R	614 (A,168,42)		RS1/16SS0R0J
R	615 (A,156,39)		RS1/16SS0R0J
R	616 (A,158,41)		RS1/16SS0R0J
R	651 (A,166,39)	RESISTOR ARRAY	RAB4CQ101J
R	654 (A,167,49)	RESISTOR ARRAY	RAB4CQ470J
R	657 (A,157,46)	RESISTOR ARRAY	RAB4CQ470J
R	660 (A,157,43)	RESISTOR ARRAY	RAB4CQ101J
R	668 (A,164,40)		RS1/16SS104J
R	701 (A,168,54)		RS1/16SS470J
R	702 (A,173,58)		RS1/16SS470J
R	703 (A,173,59)		RS1/16SS470J
R	704 (A,178,60)	RESISTOR ARRAY	RAB4CQ470J
R	711 (A,152,63)		RS1/16SS101J
R	712 (A,152,62)		RS1/16SS101J
R	713 (A,149,61)		RS1/16SS101J
R	714 (A,149,59)		RS1/16SS101J
R	715 (A,154,58)	RESISTOR ARRAY	RAB4CQ221J
R	719 (A,154,56)		RS1/16SS221J
R	720 (A,154,55)		RS1/16SS221J
R	751 (B,154,56)		RS1/16SS470J
R	752 (B,186,59)		RS1/16SS103J
R	753 (B,184,59)		RS1/16SS472J
R	754 (B,182,59)		RS1/16SS472J
R	755 (B,173,61)		RS1/16SS101J
R	756 (B,186,60)		RS1/16SS101J
R	757 (B,184,60)		RS1/16SS101J
R	758 (B,181,60)		RS1/16SS101J
R	759 (B,173,58)	RESISTOR ARRAY	RAB4CQ101J
R	761 (B,187,57)		RS1/16SS0R0J
R	763 (B,175,55)		RS1/16SS101J
R	764 (B,173,55)		RS1/16SS101J
R	801 (A,154,50)		RS1/16SS104J
R	802 (B,154,57)		RS1/16SS0R0J
R	803 (A,175,59)		RS1/16SS0R0J
R	805 (A,102,63)	RESISTOR ARRAY	RAB4CQ104J
R	806 (A,102,60)	RESISTOR ARRAY	RAB4CQ104J
R	810 (A,106,65)	RESISTOR ARRAY	RAB4CQ104J
R	901 (A,204,21)		RS1/16SS104J
R	903 (A,47,13)	CHIP RESISTOR	RS1/16SS3003F
R	904 (A,46,16)		RS1/16SS9101F
R	905 (A,46,14)	CHIP RESISTOR	RS1/16SS1802F
R	907 (A,205,26)	CHIP RESISTOR	RS1/16SS1202F
R	908 (A,205,29)		RS1/16SS2002F
R	909 (B,196,29)	CHIP RESISTOR	RS1/16SS1202F
R	910 (B,193,30)	CHIP RESISTOR	RS1/16SS1000F
R	929 (A,186,19)		RS1/16SS104J
R	930 (A,187,19)		RS1/16SS104J
R	931 (A,202,21)		RS1/16SS104J
R	951 (A,109,18)	RESISTOR ARRAY	RAB4CQ104J
R	955 (A,86,22)		RS1/16SS472J
R	962 (A,83,15)		RS1/16SS104J
R	977 (A,91,21)		RS1/16SS0R0J
R	978 (A,87,21)		RS1/16SS0R0J
R	979 (B,93,33)	RESISTOR ARRAY	RAB4CQ0R0J
R	980 (B,88,37)		RS1/16SS0R0J
R	981 (B,82,54)	RESISTOR ARRAY	RAB4CQ0R0J
R	982 (B,76,57)	RESISTOR ARRAY	RAB4CQ0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	101 (A,73,33)		CEVW101M16
C	102 (A,45,30)	CHIP OS CAPACITOR	ACH1429
C	103 (B,53,40)		CKSSYB104K10
C	104 (B,53,43)		CKSSYB104K10
C	105 (B,57,48)		CKSSYB104K10
C	106 (B,63,45)		CKSSYB104K10
C	107 (B,62,41)		CKSSYB104K10
C	108 (B,59,38)		CKSSYB104K10
C	109 (A,49,42)		CKSSYB104K10
C	110 (A,50,42)		CKSSYB471K50

Mark	No.	Description	Part No.
C	111 (B,53,45)		CKSSYB471K50
C	112 (B,52,45)		CKSSYB104K10
C	113 (B,53,48)		CKSSYB471K50
C	114 (B,54,47)		CKSSYB104K10
C	115 (B,59,47)		CKSSYB471K50
C	116 (B,59,48)		CKSSYB104K10
C	117 (B,61,47)		CKSSYB471K50
C	118 (B,61,48)		CKSSYB104K10
C	119 (B,62,43)		CKSSYB471K50
C	120 (B,63,43)		CKSSYB104K10
C	121 (B,62,39)		CKSSYB471K50
C	122 (B,64,39)		CKSSYB104K10
C	123 (B,61,37)		CKSSYB471K50
C	124 (B,61,38)		CKSSYB104K10
C	125 (B,56,38)		CKSSYB471K50
C	126 (B,57,37)		CKSSYB104K10
C	127 (B,55,38)		CKSSYB471K50
C	128 (B,54,38)		CKSSYB104K10
C	129 (A,47,47)		CKSSYB103K16
C	139 (A,47,42)		CKSRYB105K16
C	174 (A,8,48)		CEVW101M16
C	176 (A,18,52)		CKSSYB104K10
C	178 (B,11,21)		CKSSYB104K10
C	180 (B,28,16)		CKSSYB104K10
C	182 (A,11,42)		CKSSYB104K10
C	184 (A,42,52)		CKSSYB104K10
C	186 (A,25,52)		CKSSYB104K10
C	188 (B,5,20)		CKSSYB104K10
C	202 (A,119,49)		CKSSYB104K10
C	203 (A,113,47)		CKSSYB471K50
C	204 (A,113,48)		CKSSYB104K10
C	206 (A,108,48)		CKSSYB104K10
C	208 (A,102,41)		CKSSYB104K10
C	209 (A,103,39)		CKSSYB471K50
C	210 (A,102,39)		CKSSYB104K10
C	211 (A,103,31)		CKSSYB471K50
C	212 (A,103,30)		CKSSYB104K10
C	216 (A,106,28)		CKSSYB471K50
C	217 (A,106,27)		CKSSYB104K10
C	218 (A,109,28)		CKSSYB471K50
C	219 (A,109,27)		CKSSYB104K10
C	220 (B,111,33)		CKSSYB103K16
C	221 (A,114,28)		CKSSYB471K50
C	222 (A,114,26)		CKSSYB104K10
C	224 (A,124,34)		CKSSYB104K10
C	225 (A,123,37)		CKSSYB471K50
C	226 (A,124,37)		CKSSYB104K10
C	228 (A,124,40)		CKSSYB104K10
C	229 (A,132,44)	CHIP ELECT.CAPACITOR	CEVW101M4
C	230 (A,114,21)		CEVW101M16
C	291 (B,145,38)		CCSRCH471J50
C	292 (B,145,37)		CKSSYB104K10
C	304 (A,185,41)		CKSRYB104K16
C	305 (A,180,39)		CEVW470M6R3
C	306 (A,184,36)		CCSRCH471J50
C	307 (A,185,36)		CKSSYB104K10
C	312 (B,192,32)		CKSSYB104K10
C	315 (B,194,32)		CKSSYB102K50
C	316 (A,201,28)		CEVW470M6R3
C	317 (A,200,35)		CKSSYB104K10
C	318 (A,199,35)		CCSRCH471J50
C	319 (A,199,38)		CKSRYB474K10
C	353 (B,197,35)		CKSSYB103K16
C	354 (B,199,38)		CKSSYB103K16
C	401 (A,148,30)		CKSSYB471K50
C	402 (A,147,30)		CKSRYB104K16
C	403 (A,147,38)		CEVW101M16
C	404 (A,155,34)		CKSSYB104K10
C	407 (A,146,18)		CKSSYB471K50
C	408 (A,148,18)		CKSSYB471K50
C	409 (A,150,18)		CKSSYB471K50
C	410 (A,152,18)		CKSSYB471K50
C	411 (A,154,18)		CKSSYB471K50
C	412 (A,156,18)		CKSSYB471K50
C	413 (A,158,18)		CKSSYB471K50
C	414 (A,160,18)		CKSSYB471K50
C	415 (A,161,24)		CCSRCH471J50
C	416 (A,163,24)		CKSRYB104K16
C	417 (A,162,29)		CEVW101M16
C	418 (A,144,23)		CEVW470M6R3
C	420 (A,147,28)		CKSSYB104K10
C	481 (A,180,28)		CKSSYB104K10
C	482 (A,173,23)		CKSSYB104K10
C	483 (A,169,24)		CKSQYB225K10
C	485 (A,176,23)		CCSRCH471J50
C	486 (A,176,21)		CKSRYB104K16
C	487 (A,169,30)		CEVW101M16
C	489 (A,178,22)		CKSSYB104K10
C	490 (A,183,24)		CEVW100M16
C	552 (A,106,18)		CKSSYB104K10
C	553 (A,106,20)		CCSRCH471J50
C	554 (A,102,25)		CCSSCH8R0D50
C	555 (A,95,25)		CCSSCH8R0D50
C	556 (A,92,14)		CCSRCH471J50
C	557 (A,92,13)		CKSSYB104K10
C	652 (A,162,39)		CKSSYB104K10
C	701 (A,145,65)		CEVW100M16
C	703 (A,173,61)		CKSSYB104K10
C	705 (A,160,65)		CKSSYB104K10
C	707 (A,159,54)		CKSSYB104K10
C	708 (A,155,61)		CKSSYB104K10
C	751 (A,184,58)		CEVW100M16
C	753 (B,154,61)		CKSSYB104K10
C	755 (B,165,64)		CKSSYB104K10
C	757 (B,168,54)		CKSSYB104K10
C	758 (B,172,61)		CKSSYB104K10
C	801 (A,137,65)		CKSRYB104K16
C	902 (A,51,23)		DCH1201
C	903 (A,51,17)		DCH1201
C	904 (A,49,13)		CKSSYB102K50
C	905 (A,209,33)		CKSRYB105K16
C	906 (A,206,33)		CKSRYB105K16
C	907 (B,187,26)		CKSRYB105K16
C	908 (B,188,28)		CKSRYB105K16
C	918 (B,181,24)		CKSSYB103K16
C	921 (B,120,36)		CKSSYB471K50
C	922 (B,122,36)		CKSSYB103K16
C	923 (B,179,23)		CKSSYB104K10
C	924 (B,179,22)		CKSSYB471K50

Mark	No.	Description	Part No.
H		**COMPOSITE ASSY**	
		MISCELLANEOUS	
IC	1001(A,74,199)	LOGIC IC	TC74HC4051AFT
IC	1003(A,92,208)	IC	TC74HC4053AFT
IC	1004(A,112,209)	VIDEO AMP IC	LA7109
IC	1005(B,56,197)	PORT EXPANDER	BU4094BCF
IC	1006(A,36,184)	CHARACTER GENERATOR	PDC162A
IC	1101(A,159,189)	OP-AMP IC	UPC4570G2
Q	1002(A,171,176)	TRANSISTOR	2SC4081
Q	1003(B,27,193)	TRANSISTOR	2SC4081
Q	1004(B,179,188)	TRANSISTOR	2SC4081
Q	1102(A,173,207)	DIGITAL TR(SC-70)	RT1N431M
D	1001(B,88,192)	DIODE	DAN202U
D	1002(B,84,192)	DIODE	DAN202U
D	1003(B,132,179)	DIODE	1SS355
D	1004(B,123,176)	DIODE	1SS355
D	1005(B,57,180)	DIODE	DAP202U
D	1101(A,163,208)	DIODE	UDZS6R2(B)
D	1102(A,157,208)	DIODE	UDZS6R2(B)
D	1103(A,163,210)	DIODE	UDZS6R2(B)
D	1104(A,158,209)	DIODE	UDZS6R2(B)
D	1105(A,172,201)	DIODE	1SS355
D	1108(B,178,206)	DIODE	UDZS5R1(B)
D	1109(B,176,206)	DIODE	UDZS5R1(B)
D	1110(B,169,207)	DIODE	UDZS5R1(B)
L	1002(B,181,194)	CHIP COIL	LCTAW120J2520
L	1003(A,33,200)	AXIAL INDUCTOR	LAU330J
JA	1006(A,57,233)	PIN JACK(1P)	AKB7175
X	1001(A,44,196)	CRYSTAL RESONATOR	ASS7080
CN	1001(A,184,173)	11P SOCKET	XKP3076
CN	1002(A,77,178)	21P SOCKET	XKP3081
CN	1003(A,184,198)	13P SOCKET	XKP3077
CN	1004(A,161,233)	20P SOCKET	AKP7202
	1001(A,134,233)	PIN JACK(2P)	AKB7176
	1002(A,106,233)	PIN JACK(2P)	AKB7176
	1003(A,78,233)	PIN JACK(2P)	AKB7176
		RESISTORS	
R	1001(B,142,224)		RS1/16S750J
R	1002(B,125,221)		RS1/16S750J
R	1003(B,97,220)		RS1/16S750J
R	1004(B,69,220)		RS1/16S750J
R	1007(B,81,220)		RS1/16S750J
R	1009(B,108,220)		RS1/16S750J
R	1011(B,54,219)		RS1/16S750J
R	1014(A,169,170)		RS1/16S102J
R	1017(B,105,201)		RS1/16S103J
R	1018(B,114,201)		RS1/16S103J
R	1020(B,131,201)		RS1/16S103J
R	1021(A,108,203)		RS1/16S103J
R	1022(A,117,203)		RS1/16S103J
R	1023(B,133,204)		RS1/16S473J
R	1024(B,135,205)		RS1/16S473J
R	1025(B,66,204)		RS1/16S473J
R	1026(B,63,204)		RS1/16S473J
R	1027(B,64,189)		RS1/16S561J
R	1030(B,85,196)		RS1/16S473J
R	1031(B,71,192)		RS1/16S473J
R	1032(B,69,192)		RS1/16S473J
R	1033(B,54,189)		RS1/16S473J
R	1034(A,42,176)		RS1/16S102J
R	1035(B,28,186)		RS1/16S512J
R	1036(B,30,186)		RS1/16S392J
R	1037(B,38,188)		RS1/16S102J
R	1039(A,24,192)		RS1/16S331J
R	1040(A,25,196)		RS1/16S331J
R	1041(A,26,196)		RS1/16S331J
R	1043(B,175,192)		RS1/16S561J
R	1046(B,179,190)		RS1/16S102J
R	1049(A,168,175)		RS1/16S103J
R	1051(A,168,176)		RS1/16S0R0J
R	1054(B,90,209)		RS1/16S473J
R	1101(A,162,205)		RS1/16S104J
R	1102(A,158,206)		RS1/16S104J
R	1103(A,164,205)		RS1/16S331J
R	1104(A,155,205)		RS1/16S331J
R	1105(B,163,199)		RS1/16S104J
R	1106(B,156,199)		RS1/16S104J
R	1107(B,163,193)		RS1/16S472J
R	1108(B,157,193)		RS1/16S472J
R	1109(B,168,195)		RS1/16S472J
R	1110(B,150,195)		RS1/16S472J
R	1111(B,163,190)		RS1/16S103J
R	1112(B,155,189)		RS1/16S103J
R	1113(A,165,188)		RS1/16S103J
R	1114(A,154,189)		RS1/16S103J
R	1115(B,162,183)		RS1/16S101J
R	1116(B,156,183)		RS1/16S101J
R	1117(B,169,185)		RS1/16S104J
R	1118(B,167,182)		RS1/16S104J
R	1122(A,170,205)		RS1/16S514J
R	1124(A,170,208)		RS1/16S393J
R	1127(B,174,212)		RS1/16S0R0J
R	1131(A,154,212)		RS1/16S750J
R	1132(A,150,208)		RS1/16S0R0J
R	1134(A,152,213)		RS1/16S0R0J
R	1167(A,111,203)		RS1/16S0R0J
		CAPACITORS	
C	1001(A,75,202)		CKSRYB104K16
C	1002(A,73,204)		CKSRYB104K16
C	1005(A,91,212)		CKSRYB104K16
C	1006(A,94,212)		CKSRYB104K16
C	1008(B,65,202)		CKSRYB104K16
C	1009(B,68,189)		CCSRCH561J50
C	1011(A,169,173)		CKSRYB103K50
C	1012(A,169,172)		CKSRYB103K50
C	1014(A,88,202)		CEAT101M10
C	1016(A,116,200)		CEAT101M10
C	1018(A,134,200)		CEAT101M10
C	1019(B,116,211)		CKSRYB104K16
C	1020(A,120,208)		CKSRYB104K16
C	1021(A,123,213)		CEAT101M10
C	1022(A,129,214)		CEAT101M10
C	1024(B,84,225)		CCSRCH181J50
C	1025(B,113,224)		CCSRCH181J50
C	1026(B,56,224)		CCSRCH181J50
C	1027(A,45,180)		CEAT101M10
C	1028(A,45,187)		CEAT101M10

Mark	No.	Description	Part No.
	C 1029(A,45,177)		CKSRYB473K25
	C 1030(A,27,185)		CKSRYB473K25
A	C 1031(A,39,176)		CCSRCH101J50
	C 1032(A,35,176)		CKSRYB122K50
	C 1033(A,31,176)		CKSRYB122K50
	C 1035(B,34,186)		CKSRYB103K50
	C 1036(B,47,191)		CCSRCH5R0C50
	C 1037(B,45,191)		CCSRCH5R0C50
	C 1038(B,33,193)		CCSRCH240J50
	C 1039(B,32,197)		CCSRCH240J50
	C 1040(A,29,194)		CCSRCH101J50
	C 1041(A,28,193)		CCSRCH101J50
	C 1042(A,26,192)		CCSRCH101J50
B	C 1045(B,184,192)		CCSRCH330J50
	C 1046(B,178,193)		CCSRCH120J50
	C 1047(B,180,192)		CCSRCJ3R0C50
	C 1093(B,111,224)		CKSRYB103K50
	C 1095(B,82,225)		CKSRYB103K50
	C 1096(B,79,225)		CKSRYB103K50
	C 1097(B,54,224)		CKSRYB103K50
	C 1098(B,43,224)		CKSRYB103K50
	C 1101(A,162,206)		CCSRCH101J50
	C 1102(A,158,205)		CCSRCH101J50
	C 1103(A,160,200)		CCSRCH101J50
C	C 1104(A,158,200)		CCSRCH101J50
	C 1105(A,163,201)		CEAT100M50
	C 1106(A,155,201)		CEAT100M50
	C 1107(A,168,197)		CEAT100M50
	C 1108(A,150,197)		CEAT100M50
	C 1113(A,157,193)		CKSRYB103K50
	C 1114(A,162,193)		CKSRYB103K50
	C 1115(A,162,180)		CEAT100M50
	C 1116(A,156,180)		CEAT100M50
	C 1117(A,174,198)		CKSRYB103K50
	C 1118(B,167,224)		CKSRYB103K50
D			
	C 1121(A,183,192)		CKSRYB103K50
	C 1122(A,185,192)		CKSRYB103K50

I S-VIDEO ASSY

MISCELLANEOUS

IC 1201(A,115,134)	LOGIC IC	TC74HC4051AFT
IC 1202(A,103,134)	LOGIC IC	TC74HC4051AFT
IC 1203(A,111,119)	IC	TC74HC4053AFT
IC 1205(A,66,138)	VIDEO AMP IC	LA7109
E IC 1206(A,149,126)	IC	NJM12904V
Q 1201(B,145,132)	TRANSISTOR	RT1N241M
Q 1203(B,135,115)	TRANSISTOR	2SC4081
Q 1204(B,135,106)	TRANSISTOR	2SC4081
Q 1205(A,148,116)	TRANSISTOR	2SC4081
Q 1206(B,155,106)	TRANSISTOR	2SC4081
D 1203(B,79,133)	DIODE	DAN202K
D 1204(A,83,129)	DIODE	DAN202K
D 1205(A,143,125)	DIODE	1SS355
D 1251(B,90,112)	DIODE	1SS355
D 1252(B,79,113)	DIODE	1SS355
F		
D 1301(B,170,143)	DIODE	1SS355
L 1201(A,155,109)	CHIP COIL	LCTAW120J2520
L 1202(B,162,108)	CHIP COIL	LCTAW120J2520
L 1301(B,161,128)	CHIP SOLID INDUCTOR	QTL1013
CN 1201(A,175,128)	13P SOCKET	XKP3077
CN 1202(A,175,101)	15P SOCKET	XKP3078
CN 1203(A,68,108)	15P SOCKET	XKP3078
CN 1204	SOCKET	XKB3052
CN 1205(A,97,163)	SOCKET	XKB3051
CN 1206(A,125,163)	SOCKET	XKB3051
CN 1302(A,175,152)	7P FFC CONNECTOR	RKN1048

RESISTORS

R 1201(B,131,152)	RS1/16S750J
R 1202(B,133,152)	RS1/16S750J
R 1203(B,117,152)	RS1/16S750J
R 1204(B,119,152)	RS1/16S750J
R 1205(B,89,152)	RS1/16S750J
R 1206(B,91,152)	RS1/16S750J
R 1207(B,61,151)	RS1/16S750J
R 1208(B,63,151)	RS1/16S750J
R 1209(B,47,148)	RS1/16S750J
R 1210(B,49,148)	RS1/16S750J
R 1211(B,103,149)	RS1/16S750J
R 1212(B,105,149)	RS1/16S750J
R 1213(B,75,149)	RS1/16S750J
R 1214(B,77,149)	RS1/16S750J
R 1218(B,147,132)	RS1/16S473J
R 1223(B,138,115)	RS1/16S102J
R 1224(B,138,105)	RS1/16S102J
R 1225(A,59,132)	RS1/16S103J
R 1226(A,63,132)	RS1/16S103J
R 1227(A,66,130)	RS1/16S103J
R 1228(A,87,131)	RS1/16S103J
R 1231(B,80,137)	RS1/16S473J
R 1232(A,71,130)	RS1/16S473J
R 1235(A,155,111)	RS1/16S561J
R 1236(B,167,108)	RS1/16S561J
R 1237(B,131,115)	RS1/16S103J
R 1238(B,132,106)	RS1/16S103J
R 1243(A,145,119)	RS1/16S102J
R 1244(B,157,104)	RS1/16S102J
R 1247(A,146,123)	RS1/16S103J
R 1248(A,144,124)	RS1/16S470J
R 1249(A,146,126)	RS1/16S274J
R 1251(B,130,115)	RS1/16S0R0J
R 1252(B,130,106)	RS1/16S0R0J
R 1257(A,151,121)	RS1/16S0R0J
R 1310(A,175,147)	RS1/16S103J
R 1627(A,72,133)	RS1/16S0R0J
R 1628(A,66,133)	RS1/16S0R0J

CAPACITORS

C 1201(B,133,148)	CKSRYB104K16
C 1202(B,119,148)	CKSRYB104K16
C 1203(B,91,148)	CKSRYB104K16
C 1204(B,63,148)	CKSRYB104K16
C 1205(B,49,151)	CCSRCH181J50
C 1206(B,47,151)	CCSRCH181J50
C 1207(B,105,152)	CCSRCH181J50
C 1208(B,103,152)	CCSRCH181J50
C 1209(B,77,152)	CCSRCH181J50

Mark	No.	Description	Part No.
C	1210(B,75,152)		CCSRCH181J50
C	1211(A,111,134)		CKSRYB104K16
C	1212(A,119,132)		CKSRYB104K16
C	1213(A,99,134)		CKSRYB104K16
C	1214(A,107,131)		CKSRYB104K16
C	1215(A,115,115)		CKSRYB104K16
C	1216(A,108,121)		CKSRYB104K16
C	1221(A,124,115)		CEAT101M10
C	1222(A,124,107)		CEAT101M10
C	1225(B,132,110)		CKSRYB103K50
C	1226(B,140,110)		CKSRYB103K50
C	1227(A,42,120)		CEAT101M10
C	1228(B,57,129)		CKSRYB104K16
C	1229(A,50,120)		CEAT101M10
C	1230(A,87,130)		CKSRYB104K16
C	1233(B,59,142)		CKSRYB104K16
C	1234(B,59,134)		CKSRYB104K16
C	1235(A,53,143)		CEAT101M10
C	1236(A,53,136)		CEAT101M10
C	1237(A,151,117)		CKSRYB103K50
C	1238(A,143,119)		CKSRYB103K50
C	1239(B,159,106)		CKSRYB103K50
C	1240(B,160,104)		CKSRYB103K50
C	1241(A,144,122)		CKSRYB104K16
C	1242(A,143,130)		CEAT100M50
C	1243(A,155,113)		CCSRCH120J50
C	1244(B,167,109)		CCSRCH120J50
C	1245(A,152,112)		CCSRCH330J50
C	1246(B,158,110)		CCSRCH330J50
C	1247(A,152,128)		CKSRYB104K16
C	1249(A,154,107)		CCSRCJ3R0C50
C	1250(B,162,111)		CCSRCJ3R0C50
C	1292(B,73,158)		CKSRYB103K50
C	1293(B,93,158)		CKSRYB103K50
C	1294(B,129,158)		CKSRYB103K50
C	1301(A,158,138)		CEAT101M16
C	1302(A,153,142)		CKSRYB103K50

J BRIDGE 2 ASSY

MISCELLANEOUS

CN	2901(A,21,29) 17P PLUG	XKP3068
CN	2902(A,100,29) 17P PLUG	XKP3068

K COMPONENT ASSY

MISCELLANEOUS

IC	1401(A,113,70) MULTIPLEXER(4CH*2)	TC74LVX4052FT
IC	1402(A,124,72) MULTIPLEXER(4CH*2)	TC74LVX4052FT
IC	1403(A,139,69) MULTIPLEXER(2CH*3)	TC74LVX4053FT
IC	1404(B,93,70) VIDEO IC	NJM2581M
IC	1405(A,129,50) PORT EXPANDER IC	BU4094BCFV
⚠ Q	1401(B,87,57) TRANSISTOR	2SC4081
⚠ Q	1402(B,71,57) TRANSISTOR	2SA1576A
Q	1403(B,163,64) TRANSISTOR	2SA1576A
Q	1405(B,163,69) TRANSISTOR	2SA1576A
Q	1407(B,163,74) TRANSISTOR	2SA1576A
Q	1415(B,156,59) TRANSISTOR	2SC4081
Q	1416(B,162,50) TRANSISTOR	2SC4081
Q	1417(B,167,42) TRANSISTOR	2SC4081
Q	1501(A,62,65) TRANSISTOR	IMX25
Q	1502(A,68,65) TRANSISTOR	IMX25
Q	1521(A,49,65) TRANSISTOR	IMX25
Q	1522(A,55,65) TRANSISTOR	IMX25
Q	1541(A,36,65) TRANSISTOR	IMX25
Q	1542(A,42,65) TRANSISTOR	IMX25
Q	1561(A,22,65) TRANSISTOR	IMX25
Q	1562(A,29,65) TRANSISTOR	IMX25
D	1401(B,85,43) DIODE	1SS355
D	1402(B,83,43) DIODE	1SS355
L	1401(B,166,58) CHIP COIL	LCTAW120J2520
L	1402(B,169,53) CHIP COIL	LCTAW120J2520
L	1403(B,175,49) CHIP COIL	LCTAW120J2520
JA	1401(A,141,94) 6P RCA PINJACK	XKB3053
JA	1402(A,99,94) 6P RCA PINJACK	XKB3053
CN	1401(A,175,56) 13P SOCKET	XKP3077
CN	1402(A,175,30) 11P SOCKET	XKP3076
CN	1403(A,68,39) 13P SOCKET	XKP3077
CN	1405(A,19,59) 17P SOCKET	XKP3079
CN	1406(A,53,41) CONNECTOR	CKS3384
CN	1501(A,58,94) PIN JACK(4P)	AKB7172
CN	1502(A,30,94) PIN JACK(4P)	AKB7172
	1401(A,166,28) PCB BINDER	VEF1040

RESISTORS

R	1401(B,149,85)	RS1/16S750J
R	1402(B,138,85)	RS1/16S750J
R	1403(B,124,85)	RS1/16S750J
R	1404(B,157,85)	RS1/16S750J
R	1405(B,145,85)	RS1/16S750J
R	1406(B,131,85)	RS1/16S750J
R	1407(B,115,85)	RS1/16S750J
R	1408(B,103,85)	RS1/16S750J
R	1409(B,89,85)	RS1/16S750J
R	1410(B,106,77)	RS1/16S750J
R	1411(B,94,78)	RS1/16S750J
R	1412(B,83,79)	RS1/16S750J
R	1416(B,91,61)	RS1/16S102J
R	1417(B,85,57)	RS1/16S153J
R	1418(B,75,56)	RS1/16S153J
R	1419(B,82,58)	RS1/16S333J
R	1420(B,78,58)	RS1/16S333J
R	1421(B,159,64)	RS1/16S102J
R	1422(B,159,69)	RS1/16S102J
R	1423(B,159,74)	RS1/16S102J
R	1424(B,169,59)	RS1/16S561J
R	1425(B,171,54)	RS1/16S561J
R	1426(B,173,53)	RS1/16S561J
R	1430(B,133,54)	RS1/16S473J
R	1431(B,131,54)	RS1/16S473J
R	1432(B,131,50)	RS1/16S473J
R	1433(B,134,46)	RS1/16S473J
R	1434(A,134,46)	RS1/16S0R0J
R	1436(A,123,52)	RS1/16S561J
R	1439(B,126,49)	RS1/16S473J
R	1440(B,124,49)	RS1/16S473J
R	1441(B,128,48)	RS1/16S473J
R	1442(B,128,45)	RS1/16S473J
R	1443(B,157,64)	RS1/16S154J

Mark	No.	Description	Part No.
R	1444(B,160,64)		RS1/16S124J
R	1446(B,157,69)		RS1/16S154J
R	1447(B,161,69)		RS1/16S124J
R	1449(B,157,74)		RS1/16S154J
R	1450(B,161,74)		RS1/16S124J
R	1461(B,162,60)		RS1/16S104J
R	1462(B,163,55)		RS1/16S104J
R	1463(B,166,48)		RS1/16S104J
R	1464(B,157,55)		RS1/16S102J
R	1465(B,166,52)		RS1/16S102J
R	1466(B,173,47)		RS1/16S102J
R	1501(B,62,59)		RS1/16S271J
R	1502(B,68,59)		RS1/16S271J
R	1503(B,62,65)		RS1/16S121J
R	1504(B,68,65)		RS1/16S121J
R	1505(B,62,70)		RS1/16S101J
R	1506(B,68,70)		RS1/16S101J
R	1507(B,63,86)		RS1/16S474J
R	1508(B,67,87)		RS1/16S474J
R	1509(A,62,60)		RS1/16S103J
R	1510(A,68,60)		RS1/16S103J
R	1511(A,60,69)		RS1/16S103J
R	1512(A,67,69)		RS1/16S103J
R	1521(B,49,59)		RS1/16S271J
R	1522(B,55,59)		RS1/16S271J
R	1523(B,49,65)		RS1/16S121J
R	1524(B,55,65)		RS1/16S121J
R	1525(B,49,70)		RS1/16S101J
R	1526(B,55,70)		RS1/16S101J
R	1527(B,49,86)		RS1/16S474J
R	1528(B,53,87)		RS1/16S474J
R	1529(A,49,60)		RS1/16S103J
R	1530(A,55,60)		RS1/16S103J
R	1531(A,47,69)		RS1/16S103J
R	1532(A,54,69)		RS1/16S103J
R	1541(B,36,59)		RS1/16S271J
R	1542(B,42,59)		RS1/16S271J
R	1543(B,36,65)		RS1/16S121J
R	1544(B,42,65)		RS1/16S121J
R	1545(B,36,70)		RS1/16S101J
R	1546(B,42,70)		RS1/16S101J
R	1547(B,35,86)		RS1/16S474J
R	1548(B,39,87)		RS1/16S474J
R	1549(A,36,60)		RS1/16S103J
R	1550(A,42,60)		RS1/16S103J
R	1551(A,34,69)		RS1/16S103J
R	1552(A,41,69)		RS1/16S103J
R	1561(B,23,61)		RS1/16S271J
R	1562(B,29,61)		RS1/16S271J
R	1563(B,22,65)		RS1/16S121J
R	1564(B,29,65)		RS1/16S121J
R	1565(B,22,70)		RS1/16S101J
R	1566(B,29,70)		RS1/16S101J
R	1567(B,21,86)		RS1/16S474J
R	1568(B,25,87)		RS1/16S474J
R	1569(A,23,60)		RS1/16S103J
R	1570(A,29,60)		RS1/16S103J
R	1571(A,21,69)		RS1/16S103J
R	1572(A,27,69)		RS1/16S103J
R	1573(A,65,46)		RS1/16S473J
R	1574(A,62,46)		RS1/16S471J
R	1575(A,63,44)		RS1/16S473J
R	1576(A,61,43)		RS1/16S471J
R	1581(B,151,77)		RS1/16S0R0J

CAPACITORS

C	1413(A,118,70)		CKSRYB103K50
C	1414(A,107,72)		CKSRYB103K50
C	1415(A,131,70)		CKSRYB103K50
C	1416(A,117,73)		CKSRYB103K50
C	1417(A,143,67)		CKSRYB103K50
C	1418(A,135,72)		CKSRYB103K50
C	1419(A,101,61)		CEAT101M10
C	1420(A,95,61)		CEAT101M10
C	1421(A,97,53)		CEAT101M10
C	1425(A,83,67)		CEAT101M10
C	1426(A,83,73)		CEAT101M10
C	1427(B,86,67)		CKSRYB104K16
C	1428(B,86,72)		CKSRYB104K16
C	1431(B,82,60)		CKSRYB224K10
C	1432(B,78,60)		CKSRYB224K10
C	1433(B,153,64)		CKSRYB103K50
C	1434(B,168,64)		CKSRYB103K50
C	1435(B,153,70)		CKSRYB103K50
C	1436(B,168,69)		CKSRYB103K50
C	1437(B,154,76)		CKSRYB103K50
C	1438(B,168,73)		CKSRYB103K50
C	1439(A,151,63)		CEAT100M50
C	1440(A,151,68)		CEAT100M50
C	1441(A,150,74)		CEAT100M50
C	1443(B,169,41)		CKSRYB104K16
C	1444(B,175,46)		CKSRYB104K16
C	1445(A,170,59)		CCSRCH120J50
C	1446(A,170,55)		CCSRCH120J50
C	1447(A,172,50)		CCSRCH120J50
C	1448(A,169,59)		CCSRCH330J50
C	1449(A,169,55)		CCSRCH330J50
C	1450(A,170,50)		CCSRCH330J50
C	1454(A,170,57)		CCSRCJ3R0C50
C	1455(A,170,52)		CCSRCJ3R0C50
C	1456(A,172,48)		CCSRCJ3R0C50
C	1469(A,130,54)		CKSRYB104K16
C	1470(A,128,54)		CCSRCH561J50
C	1471(A,163,58)		CEAT100M50
C	1472(A,163,53)		CEAT100M50
C	1473(A,166,46)		CEAT100M50
C	1490(B,147,85)		CKSRYB103K50
C	1491(B,133,85)		CKSRYB103K50
C	1492(B,105,85)		CKSRYB103K50
C	1493(B,91,85)		CKSRYB103K50
C	1501(B,63,84)		CCSRCH101J50
C	1502(B,67,85)		CCSRCH101J50
C	1507(B,60,70)		CCSRCH271J50
C	1508(B,66,70)		CCSRCH271J50
C	1521(B,49,84)		CCSRCH101J50
C	1522(B,53,85)		CCSRCH101J50
C	1527(B,47,70)		CCSRCH271J50
C	1528(B,53,70)		CCSRCH271J50
C	1531(A,60,78)	ELECT. CAPACITOR	CEAT470M25
C	1532(A,67,78)	ELECT. CAPACITOR	CEAT470M25

Mark	No.	Description	Part No.
C	1533(A,47,78)	ELECT. CAPACITOR	CEAT470M25
C	1541(B,35,84)		CCSRCH101J50
C	1542(B,39,85)		CCSRCH101J50
C	1547(A,54,78)	ELECT. CAPACITOR	CEAT470M25
C	1548(A,34,78)	ELECT. CAPACITOR	CEAT470M25
C	1549(A,41,78)	ELECT. CAPACITOR	CEAT470M25
C	1550(A,21,78)	ELECT. CAPACITOR	CEAT470M25
C	1551(A,27,78)	ELECT. CAPACITOR	CEAT470M25
C	1561(B,21,84)		CCSRCH101J50
C	1562(B,25,85)		CCSRCH101J50
C	1567(A,60,46)		CKSRYB472K50
C	1568(A,58,44)		CKSRYB472K50
C	1569(B,34,70)		CCSRCH271J50
C	1570(B,40,70)		CCSRCH271J50
C	1571(B,20,70)		CCSRCH271J50
C	1572(B,27,70)		CCSRCH271J50
C	1591(B,58,86)		CKSRYB103K50
C	1593(B,30,86)		CKSRYB103K50

COMPLEX ASSY (AWK8015)

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ Y	15	AWG18 BOARD IN	ADX7501
⚠ Y	14	AWG18 BOARD IN	ADX7500

L DISPLAY ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	2301(B,164,214)	DISPLAY U-COM	PE5503A
IC	2402(A,237,230)	REMOTE RECEIVER UNIT	RPM7540-H9
Q	2401(B,205,185)	TRANSISTOR	RT1N241M
Q	2404(B,251,192)	TRANSISTOR	2SA1576A
Q	2405(B,231,192)	TRANSISTOR	RT1N241M
Q	2406(B,225,220)	DIGITAL TR(SC-70)	RT1N431M
Q	2407(B,70,220)	DIGITAL TR(SC-70)	RT1N431M
Q	2408(B,65,214)	DIGITAL TR(SC-70)	RT1N431M
Q	2409(B,157,190)	DIGITAL TR(SC-70)	RT1N431M
D	2404(B,238,190)	DIODE	1SS355
D	2405(B,254,195)	DIODE	1SS355
D	2406(B,252,209)	DIODE	DAN202U
D	2408(A,237,220)	LED(RED)	SLI-343URW(RST)
D	2410(A,76,218)	LED(ORANGE)	SLI-343DCW(STU)
D	2412(A,58,214)	LED(RED)	SLI-343URW(RST)
D	2414(A,157,197)	LED(BLUE)	SLR343BC4T(JKLM)
D	2416(B,53,227)	DIODE	1SS355
L	2401(A,248,205)	RADIAL INDUCTOR	LFCA2R2J
V	2301(A,218,237)	FL TUBE DISPLAY	AAV7113
X	2301(A,179,197)	CERAMIC RESONATOR	VSS1142
CN	2301(A,269,204)	CONNECTOR	CKS3394
	2303(A,267,196)	CABLE HOLDER(4P)	51063-0405
	2302(A,48,221)	17P CABLE HOLDER	51048-1700
	2301(A,157,201)	FL HOLDER(FE)	VNF1096

RESISTORS

Mark	No.	Description	Part No.
R	2301(B,104,240)		RS1/16S104J
R	2302(B,106,240)		RS1/16S104J
R	2303(B,108,240)		RS1/16S104J
R	2304(B,110,240)		RS1/16S104J
R	2305(B,112,240)		RS1/16S104J
R	2306(B,114,240)		RS1/16S104J
R	2307(B,116,240)		RS1/16S104J
R	2308(B,118,240)		RS1/16S104J
R	2309(B,120,240)		RS1/16S104J
R	2310(B,122,240)		RS1/16S104J
R	2311(B,124,240)		RS1/16S104J
R	2312(B,126,240)		RS1/16S104J
R	2313(B,128,240)		RS1/16S104J
R	2314(B,130,240)		RS1/16S104J
R	2315(B,132,240)		RS1/16S104J
R	2316(B,134,240)		RS1/16S104J
R	2317(B,136,240)		RS1/16S104J
R	2318(B,138,240)		RS1/16S104J
R	2319(B,140,240)		RS1/16S104J
R	2320(B,142,240)		RS1/16S104J
R	2321(B,144,240)		RS1/16S104J
R	2322(B,146,240)		RS1/16S104J
R	2323(B,148,240)		RS1/16S104J
R	2324(B,150,240)		RS1/16S104J
R	2325(B,152,240)		RS1/16S104J
R	2326(B,154,240)		RS1/16S104J
R	2327(B,156,240)		RS1/16S104J
R	2328(B,158,240)		RS1/16S104J
R	2329(B,160,240)		RS1/16S104J
R	2330(B,162,240)		RS1/16S104J
R	2331(B,164,240)		RS1/16S104J
R	2332(B,166,240)		RS1/16S104J
R	2333(B,168,240)		RS1/16S104J
R	2334(B,170,240)		RS1/16S104J
R	2335(B,172,240)		RS1/16S104J
R	2336(B,174,240)		RS1/16S104J
R	2337(B,176,240)		RS1/16S104J
R	2338(B,180,240)		RS1/16S473J
R	2339(B,182,240)		RS1/16S473J
R	2340(B,184,240)		RS1/16S473J
R	2341(B,186,240)		RS1/16S473J
R	2342(B,188,240)		RS1/16S473J
R	2343(B,190,240)		RS1/16S473J
R	2344(B,192,240)		RS1/16S473J
R	2345(B,194,240)		RS1/16S473J
R	2346(B,196,240)		RS1/16S473J
R	2347(B,198,240)		RS1/16S473J
R	2348(B,200,240)		RS1/16S473J
R	2349(B,202,240)		RS1/16S473J
R	2350(B,204,240)		RS1/16S473J
R	2351(B,206,240)		RS1/16S473J
R	2352(B,208,240)		RS1/16S473J
R	2353(B,210,240)		RS1/16S473J
R	2354(B,198,200)		RS1/16S473J
R	2355(B,206,191)		RS1/16S473J
R	2356(B,190,207)		RS1/16S473J
R	2357(B,193,202)		RS1/16S473J
R	2358(B,181,201)		RS1/16S105J
R	2359(B,176,202)		RS1/16S104J
R	2361(B,172,197)		RS1/16S221J
R	2362(B,170,194)		RS1/16S221J
R	2363(B,169,194)		RS1/16S221J
R	2364(B,167,194)		RS1/16S221J
R	2366(B,162,198)		RS1/16S104J
R	2368(B,126,199)		RS1/16S473J
R	2369(B,131,208)		RS1/16S474J

Mark	No.	Description	Part No.
	R 2370(B,114,207)		RS1/16S221J
	R 2371(B,136,208)		RS1/16S104J
	R 2372(B,135,208)		RS1/16S221J
A	R 2373(B,133,208)		RS1/16S101J
	R 2374(B,134,212)		RS1/16S221J
	R 2375(B,129,208)		RS1/16S104J
	R 2377(B,135,204)		RS1/16S474J
	R 2378(B,133,204)		RS1/16S104J
	R 2401(B,262,227)		RS1/16S221J
	R 2402(B,260,227)		RS1/16S0R0J
	R 2403(B,258,225)		RS1/16S0R0J
	R 2404(B,256,224)		RS1/16S0R0J
	R 2405(B,254,223)		RS1/16S0R0J
	R 2406(B,201,185)		RS1/16S473J
B	R 2411(B,247,191)		RS1/16S0R0J
	R 2412(B,249,192)		RS1/16S104J
	R 2413(B,240,191)		RS1/16S472J
	R 2414(B,237,196)		RS1/16S0R0J
	R 2415(B,257,192)		RS1/16S104J
	R 2416(B,251,195)		RS1/16S103J
	R 2417(B,239,196)		RS1/16S102J
	R 2419(B,232,240)		RS1/16S101J
	R 2420(B,233,220)		RS1/16S331J
	R 2421(B,72,225)		RS1/16S331J
C	R 2422(B,64,219)		RS1/16S331J
	R 2423(B,150,192)		RS1/16S221J
	R 2424(B,135,193)		RS1/16S472J

CAPACITORS

	C 2303(B,221,238)		CKSRYB471K50
	C 2304(A,230,236)	ELECT. CAPACITOR	CEAT101M35
	C 2305(B,178,231)		CKSRYB471K50
	C 2306(B,180,231)		CKSRYB471K50
	C 2307(B,182,231)		CKSRYB471K50
	C 2308(B,183,231)		CKSRYB471K50
D	C 2309(B,187,231)		CKSRYB471K50
	C 2310(B,189,231)		CKSRYB471K50
	C 2311(B,190,231)		CKSRYB471K50
	C 2312(B,192,231)		CKSRYB471K50
	C 2313(B,196,231)		CKSRYB471K50
	C 2314(B,197,231)		CKSRYB471K50
	C 2315(B,199,231)		CKSRYB471K50
	C 2316(B,201,231)		CKSRYB471K50
	C 2317(B,204,231)		CKSRYB471K50
	C 2318(B,206,231)		CKSRYB471K50
	C 2319(B,208,231)		CKSRYB471K50
E	C 2320(B,209,231)		CKSRYB471K50
	C 2351(B,180,215)		CKSRYB103K50
	C 2353(B,185,207)		CKSRYB104K25
	C 2354(B,175,202)		CKSRYB104K25
	C 2359(B,142,204)		CKSRYB103K50
	C 2360(A,87,231)	ELECT. CAPACITOR	CEJQ470M50
	C 2361(B,161,230)		CKSRYB103K50
	C 2362(B,160,230)		CKSRYB103K50
	C 2403(B,247,195)		CKSRYB103K50
	C 2404(B,237,236)		CKSRYB103K50
F	C 2405(A,247,235)		CEJQ101M6R3
	C 2406(B,245,209)		CKSRYB103K50
	C 2407(A,229,210)		CEJQ221M6R3

Mark	No.	Description	Part No.

M VOLUME ASSY

MISCELLANEOUS

	J 2451	JUMPER WIRE	D15A04-100-2651
	S 2451(A,289,207)	SWITCH	VSG1024
	S 2452(A,304,207)	SWITCH	VSG1024
	S 2453(A,314,207)	SWITCH	VSG1024
	S 2454(A,302,174)	ROTARY ENCODER	ASX7048
	2451(A,278,202)	CABLE HOLDER(4P)	51063-0405

RESISTORS

	R 2451(B,296,206)		RS1/16S681J
	R 2452(B,311,206)		RS1/16S821J

CAPACITORS

	C 2451(B,281,208)		CKSRYB102K50
	C 2452(B,304,186)		CKSRYB103K50
	C 2453(B,299,186)		CKSRYB103K50

N MULTI JOG ASSY

MISCELLANEOUS

	IC 2501(B,157,111)	CMOS IC	TC4094BF
	Q 2501(B,162,146)	DIGITAL TR(SC-70)	RT1N431M
	Q 2502(B,174,146)	DIGITAL TR(SC-70)	RT1N431M
	Q 2503(B,195,146)	DIGITAL TR(SC-70)	RT1N431M
	Q 2504(B,217,146)	DIGITAL TR(SC-70)	RT1N431M
	Q 2505(B,237,147)	DIGITAL TR(SC-70)	RT1N431M
	Q 2506(B,259,146)	DIGITAL TR(SC-70)	RT1N431M
	Q 2507(B,280,146)	DIGITAL TR(SC-70)	RT1N431M
	Q 2508(B,314,140)	DIGITAL TR(SC-70)	RT1N431M
	Q 2509(B,131,147)	DIGITAL TR(SC-70)	RT1N431M
	Q 2510(B,22,184)	DIGITAL TR(SC-70)	RT1N431M
	Q 2511(B,121,147)	DIGITAL TR(SC-70)	RT1N431M
	Q 2512(B,87,146)	DIGITAL TR(SC-70)	RT1N431M
	D 2502(A,155,147)	LED(ORANGE)	SLR-343DC(NPQ)
	D 2504(A,177,147)	LED(ORANGE)	SLR-343DC(NPQ)
	D 2506(A,198,147)	LED(ORANGE)	SLR-343DC(NPQ)
	D 2508(A,220,147)	LED(ORANGE)	SLR-343DC(NPQ)
	D 2510(A,241,147)	LED(ORANGE)	SLR-343DC(NPQ)
	D 2512(A,263,147)	LED(ORANGE)	SLR-343DC(NPQ)
	D 2514(A,284,147)	LED(ORANGE)	SLR-343DC(NPQ)
	D 2516(A,306,147)	LED(ORANGE)	SLR-343DC(NPQ)
	D 2518(A,134,147)	LED(ORANGE)	SLR-343DC(NPQ)
	D 2520(A,16,186)	LED(BLUE)	SLR343BC4T(JKLM)
	D 2522(A,112,147)	LED(ORANGE)	SLR-343DC(NPQ)
	D 2524(A,91,147)	LED(ORANGE)	SLR-343DC(NPQ)
	J 2501	JUMPER WIRE	D20PDD1715E
	S 2501(A,36,119)	ROTARY ENCODER	ASX7031
	S 2551(A,154,141)	SWITCH	VSG1024
	S 2552(A,181,141)	SWITCH	VSG1024
	S 2553(A,202,141)	SWITCH	VSG1024
	S 2554(A,224,141)	SWITCH	VSG1024
	S 2555(A,245,141)	SWITCH	VSG1024
	S 2556(A,267,141)	SWITCH	VSG1024
	S 2557(A,288,141)	SWITCH	VSG1024
	S 2558(A,310,141)	SWITCH	VSG1024
	S 2561(A,74,117)	SWITCH	VSG1024
	S 2562(A,106,91)	SWITCH	VSG1024
	S 2563(A,120,91)	SWITCH	VSG1024

Mark	No.	Description	Part No.
S	2564(A,135,91)	SWITCH	VSG1024
S	2565(A,150,91)	SWITCH	VSG1024
S	2566(A,165,91)	SWITCH	VSG1024
S	2567(A,179,91)	SWITCH	VSG1024
S	2571(A,15,179)	SWITCH	VSG1024
S	2572(A,18,142)	SWITCH	VSG1024
S	2573(A,33,142)	SWITCH	VSG1024
S	2574(A,48,142)	SWITCH	VSG1024
S	2575(A,90,141)	SWITCH	VSG1024
S	2576(A,116,141)	SWITCH	VSG1024
S	2577(A,138,141)	SWITCH	VSG1024
	2501(A,41,205)	17P CABLE HOLDER	51048-1700

RESISTORS

R	2501(B,151,152)		RS1/16S181J
R	2502(B,184,152)		RS1/16S181J
R	2503(B,194,152)		RS1/16S181J
R	2504(B,216,152)		RS1/16S181J
R	2505(B,237,152)		RS1/16S181J
R	2506(B,259,152)		RS1/16S181J
R	2507(B,280,152)		RS1/16S181J
R	2508(B,302,152)		RS1/16S181J
R	2509(B,142,152)		RS1/16S181J
R	2510(B,9,186)		RS1/16S391J
R	2511(B,119,152)		RS1/16S181J
R	2512(B,87,151)		RS1/16S181J
R	2513(B,160,103)		RS1/16S0R0J
R	2551(B,149,141)		RS1/16S472J
R	2552(B,173,141)		RS1/16S681J
R	2553(B,194,141)		RS1/16S821J
R	2554(B,216,141)		RS1/16S122J
R	2555(B,237,141)		RS1/16S162J
R	2556(B,258,141)		RS1/16S272J
R	2557(B,280,141)		RS1/16S512J
R	2558(B,301,142)		RS1/16S133J
R	2561(B,77,113)		RS1/16S472J
R	2562(B,106,98)		RS1/16S681J
R	2563(B,117,90)		RS1/16S821J
R	2564(B,132,90)		RS1/16S122J
R	2565(B,145,90)		RS1/16S162J
R	2566(B,160,90)		RS1/16S272J
R	2567(B,175,90)		RS1/16S512J
R	2571(B,12,181)		RS1/16S472J
R	2572(B,18,146)		RS1/16S681J
R	2573(B,30,142)		RS1/16S821J
R	2574(B,45,142)		RS1/16S122J
R	2575(B,87,141)		RS1/16S162J
R	2576(B,106,143)		RS1/16S272J
R	2577(B,130,141)		RS1/16S512J
R	2580(B,145,116)		RS1/16S561J

CAPACITORS

C	2501(B,148,108)		CKSRYB103K50
C	2502(B,36,129)		CKSRYB103K50
C	2503(B,33,129)		CKSRYB103K50
C	2551(B,151,141)		CKSRYB102K50
C	2561(B,79,113)		CKSRYB102K50
C	2571(B,18,181)		CKSRYB102K50
C	2580(B,148,113)		CCSRCH561J50

Mark	No.	Description	Part No.

O HEADPHONE ASSY

MISCELLANEOUS

KN	2851(A,13,54)	WRAPPING TERMINAL	VNF1084
CN	2851(A,19,70)	4P JUMPER CONNECTOR	52147-0410
	2851(A,15,14)	PHONE JACK	AKN7029

RESISTORS

R	2851(B,20,26)		RS1/16S102J
R	2852(B,16,27)		RS1/16S0R0J

CAPACITORS

C	2851(B,19,42)		CKSRYB392K50
C	2852(B,11,29)		CKSRYB392K50
C	2853(B,10,40)		CCSRCH471J50
C	2854(B,13,43)		CKSRYB103K50
C	2855(B,13,45)		CKSRYB104K16

P FRONT-IN ASSY

MISCELLANEOUS

IC	2701(B,36,55)	OP-AMP IC	BA4560RF
Q	2651(B,116,47)	CHIP TRANSISTOR	HN1C01FU
D	2701(B,29,62)	DIODE	DAN217
D	2702(B,33,32)	DIODE	UDZS5R1(B)
D	2703(B,31,29)	DIODE	UDZS5R1(B)
D	2704(B,28,46)	DIODE	UDZS5R1(B)
L	2653(B,117,59)	INDUCTOR	CTF1385
L	2671(B,143,58)	INDUCTOR	CTF1385
L	2681(B,92,65)	CHIP SOLID INDUCTOR	QTL1013
L	2752(B,68,60)	CHIP FERRITE BEADS	VTL1169
L	2753(B,72,55)	CHIP FERRITE BEADS	VTL1169
JA	2651(A,109,69)	PIN JACK(4P)	XKX3003
JA	2652(A,88,77)	OPTICAL IN MOD.	GP1FMV51RK0F
JA	2701(A,45,73)	JACK REMOCON	RKN1004
JA	2751(A,65,76)	USB CONNECTOR	XKP3086
KN	2651(A,156,42)	WRAPPING TERMINAL	VNF1084
KN	3351(A,44,37)	WRAPPING TERMINAL	VNF1084
CN	2651(A,40,28)	CONNECTOR	CKS3382
CN	2652(A,67,42)	CONNECTOR	B4B-PH

RESISTORS

R	2651(B,121,58)		RS1/16S0R0J
R	2652(B,107,57)		RS1/16S0R0J
R	2653(B,128,58)		RS1/16S104J
R	2654(B,111,56)		RS1/16S104J
R	2655(B,128,54)		RS1/16S221J
R	2656(B,107,52)		RS1/16S221J
R	2657(B,124,54)		RS1/16S104J
R	2658(B,113,56)		RS1/16S104J
R	2659(B,122,46)		RS1/16S221J
R	2660(B,113,51)		RS1/16S221J
R	2661(B,118,46)		RS1/16S153J
R	2662(B,113,43)		RS1/16S153J
R	2663(B,120,46)		RS1/16S101J
R	2664(B,112,48)		RS1/16S101J
R	2665(B,100,46)		RS1/16S470J
R	2666(B,100,39)		RS1/16S470J
R	2668(B,131,57)		RS1/16S0R0J
R	2671(B,141,62)		RS1/16S750J
R	2672(B,145,62)		RS1/16S0R0J

Mark	No.	Description	Part No.
	R 2673(B,152,59)		RS1/16S750J
	R 2674(B,150,64)		RS1/16S750J
	R 2675(B,152,55)		RS1/16S0R0J
	R 2676(B,148,58)		RS1/16S0R0J
	R 2681(B,85,65)		RS1/16S101J
	R 2701(B,41,65)		RS1/16S102J
	R 2702(B,38,68)		RS1/16S682J
	R 2703(B,40,69)		RS1/16S104J
	R 2704(B,30,66)		RS1/16S101J
	R 2705(B,34,62)		RS1/16S104J
	R 2706(B,30,57)		RS1/16S472J
	R 2707(B,38,62)		RS1/16S333J
	R 2708(B,41,61)		RS1/16S101J
	R 2709(B,30,48)		RS1/16S472J
	R 2710(B,34,48)		RS1/16S333J
	R 2711(B,36,48)		RS1/16S101J
	R 2712(B,34,28)		RS1/16S104J
	R 2714(B,34,38)		RS1/16S102J
	R 2751(B,65,60)		RS1/16S0R0J
	R 2752(B,63,60)		RS1/16S0R0J

CAPACITORS

	C 2651(B,126,58)		CCSRCH221J50
	C 2652(B,109,56)		CCSRCH221J50
	C 2653(A,125,47)		CEAT100M50
	C 2654(A,109,46)		CEAT100M50
	C 2655(B,126,54)		CCSRCH101J50
	C 2656(B,115,56)		CCSRCH101J50
	C 2659(A,125,39)	ELECT. CAPACITOR	CEAT470M25
	C 2660(A,109,39)	ELECT. CAPACITOR	CEAT470M25
	C 2661(B,113,40)		CKSRYB103K50
	C 2662(B,115,37)		CKSRYB103K50
	C 2663(A,102,46)	ELECT. CAPACITOR	CEAT330M25
	C 2664(A,102,40)	ELECT. CAPACITOR	CEAT330M25
	C 2665(B,152,46)		CKSRYB103K50
	C 2666(B,150,46)		CKSRYB223K50
	C 2671(B,130,61)		CKSRYB103K50
	C 2673(B,154,57)		CKSRYB104K16
	C 2674(B,156,46)		CKSRYB103K50
	C 2675(B,158,46)		CKSRYB223K50
	C 2681(B,89,65)		CKSRYB104K16
	C 2701(B,42,69)		CCSRCH471J50
	C 2702(A,36,66)		CEAT100M50
	C 2703(B,32,62)		CCSRCH101J50
	C 2704(B,36,62)		CCSRCH330J50
	C 2705(B,32,48)		CCSRCH330J50
	C 2706(A,34,36)		CEAT100M50
	C 2707(B,48,43)		CKSRYB103K50
	C 2709(B,52,43)		CKSRYB223K50
	C 2712(A,35,44)		CEAT100M50
	C 2713(B,40,57)		CKSRYB103K50
	C 2714(B,40,53)		CKSRYB103K50
	C 2715(A,49,59)		CEAT100M50
	C 2716(A,49,53)		CEAT100M50
	C 2718(B,40,38)		CKSRYB102K50
	C 2719(B,40,36)		CCSRCH221J50
	C 2753(B,68,56)		CKSRYB104K16
	C 2755(A,68,51)		CEAT101M16
	C 2756(B,73,51)		CKSRYB104K16
	C 2757(B,73,46)		CCSRCH471J50

Mark	No.	Description	Part No.

Q PRIMARY ASSY

MISCELLANEOUS

⚠	IC 2001(A,305,99)	REGULATOR IC	NJM78M56FA
	Q 2001(B,281,60)	DIGITAL TR(SC-70)	RT1N431M
	D 2001(B,276,60)	DIODE	1SS355
	D 2002(B,276,65)	DIODE	1SS355
⚠	D 2003(B,296,87)	BRIDGE DIODE	S1WB(A)60SD
	D 2004(B,304,75)	DIODE	1SS355
	D 2006(B,308,70)	DIODE	UDZS5R1(B)
⚠	L 2001(A,244,24)	LINE FILTER	XTF3004
	H 2001(A,243,46)	FUSE CLIP	AKR7001
	H 2002(A,223,46)	FUSE CLIP	AKR7001
	KN 2001(A,194,19)	SCREW PLATE	VNE1948
⚠	RY 2001(A,251,58)	JOE LOWPOWER RELAY	ASR7013
⚠	T 2001(A,273,84)	STANDBY TRANSFORMER	ATT7040
	CN 2001(A,301,115)	9P SOCKET	KP200TA9L
	CN 2002(A,246,115)	5P SOCKET	KP200TA5L
⚠	CN 2003(A,225,25)	AC CODE SOCKET	RKP1751

RESISTORS

	R 2002(A,279,68)	CARBON FILM RESISTOR	RD1/4MUF101J
	R 2003(B,305,70)		RS1/16S103J
	R 2004(B,302,70)		RS1/16S332J

CAPACITORS

⚠	C 2002(A,266,26)	FILM CAPACITOR	ACE7013
⚠	C 2003(A,251,52)	SAFETY CAPACITOR	XCG3009
	C 2004(A,290,106)	FILM CAPACITOR	CQMBA103J50
	C 2009(A,303,88)	ELECT. CAPACITOR	CEAT332M25
	C 2010(A,309,106)		CEAT221M25
	C 2011(B,310,85)		CKSRYB103K50

R TRANS 1 ASSY

TRANS 1 ASSY has no service part.

SECONDARY ASSY (AWK7911)

MISCELLANEOUS

	Y 9	AWG18 BOARD IN	ADX7502
	Y 10	AWG18 BOARD IN	ADX7503
	Y 11	AWG18 BOARD IN	ADX7504
	Y 12	AWG18 BOARD IN	ADX7505

S TRANS 2-1 ASSY

MISCELLANEOUS

⚠	IC 3251(A,228,215)	PROTECTOR(7A)	AEK7021
⚠	IC 3252(A,239,164)	PROTECTOR(7A)	AEK7021
	Q 3251(B,244,224)	CHIP TRANSISTOR	RN1901
	Q 3252(B,253,224)	TRANSISTOR	UMD2N
	Q 3253(B,261,224)	TRANSISTOR	UMD2N
⚠	D 3251(B,234,181)	BRIDGE DIODE	S1WB(A)60SD
	D 3253(B,236,216)	DIODE	UDZS8R2(B)
	D 3254(B,263,217)	DIODE	UDZS7R5(B)
	D 3255(B,233,216)	DIODE	UDZS9R1(B)
	D 3256(B,263,219)	DIODE	UDZS8R2(B)
	D 3257(B,233,223)	DIODE	UDZS9R1(B)
	D 3258(B,258,218)	DIODE	UDZS8R2(B)

Mark	No.	Description	Part No.
D	3259(B,238,223)	DIODE	UDZS6R8(B)
D	3260(B,258,220)	DIODE	UDZS6R8(B)
D	3261(B,240,220)	DIODE	UDZS12(B)
D	3262(B,253,220)	DIODE	UDZS12(B)
D	3263(B,238,218)	DIODE	UDZS13(B)
D	3264(B,253,218)	DIODE	UDZS15(B)
D	3265(B,257,226)	DIODE	UDZS13(B)
D	3266(B,267,227)	DIODE	UDZS13(B)
J	3251	JUMPER WIRE	D20PDY0610E
	3251(A,261,193)	6P CABLE HOLDER	51048-0600

RESISTORS

Mark	No.	Description	Part No.
⚠ R	3253(A,248,192)	METAL OXIDE RESISTOR	RS1LMF472J
⚠ R	3254(A,263,212)	METAL OXIDE RESISTOR	RS1LMF472J
⚠ R	3255(A,245,195)	CARBON FILM RESISTOR	RD1/2LMF332J
⚠ R	3256(A,259,215)	CARBON FILM RESISTOR	RD1/2LMF332J

CAPACITORS

C	3253(A,243,186)	ELECT. CAPACITOR	CEAT471M2A
C	3254(A,253,172)	ELECT. CAPACITOR	CEAT471M2A
C	3255(A,240,202)	ELECT. CAPACITOR	CEAT101M63
C	3256(A,240,213)	ELECT. CAPACITOR	CEAT101M63
C	3257(A,269,190)	ELECT. CAPACITOR	CEAT221M2A
C	3258(A,262,201)	ELECT. CAPACITOR	CEAT221M2A

T DIODE 1 ASSY

MISCELLANEOUS

⚠ D	3301(A,175,164)	DIODE	D5SBA20(B)
⚠ D	3302(A,175,199)	DIODE	D5SBA20(B)

RESISTORS

⚠ R	3301(A,194,172)	CARBON FILM RESISTOR	RD1/4MUF100J

CAPACITORS

C	3301(A,191,182)	FILM CAPACITOR	CFTLA104J2A
C	3302(A,196,177)	FILM CAPACITOR	CFTLA104J2A

U VH TR ASSY

MISCELLANEOUS

⚠ IC	3351(A,177,136)	IC PROTECTOR	ICP-N15
⚠ IC	3352(A,177,152)	IC PROTECTOR	ICP-N15
⚠ Q	3351(B,172,130)	CHIP TRANSISTOR	2SA1514K
⚠ Q	3352(A,162,135)	TRANSISTOR	2SB1186A
⚠ Q	3353(A,162,150)	TRANSISTOR	2SD1763A
⚠ Q	3354(B,172,145)	CHIP TRANSISTOR	2SC3906K
⚠ D	3351(B,173,141)	DIODE	1SR154-400
⚠ D	3352(B,176,157)	DIODE	1SR154-400
CN	3351(A,184,138)	6P JUMPER CONNECTOR	52147-0610

RESISTORS

R	3351(B,179,129)		RS1/16S471J
R	3352(B,168,128)		RS1/16S100J
R	3353(B,168,143)		RS1/16S100J
R	3354(B,177,144)		RS1/16S471J

Mark	No.	Description	Part No.

V BRIDGE 1 ASSY

MISCELLANEOUS

CN	5811(A,46,130)	23P PLUG	XKP3071
CN	5812(A,46,105)	23P PLUG	XKP3071
	5811(A,8,101)	PCB BINDER	VEF1040

W PS/SP ASSY

MISCELLANEOUS

Q	3001(B,161,85)	CHIP TRANSISTOR	DTC114TUA
Q	3002(B,229,97)	CHIP TRANSISTOR	DTC114TUA
Q	3003(B,247,90)	CHIP TRANSISTOR	DTC114TUA
Q	3004(B,290,84)	CHIP TRANSISTOR	DTC114TUA
Q	3005(B,212,99)	CHIP TRANSISTOR	DTC114TUA
D	3001(B,168,80)	DIODE	1SS355
D	3002(B,165,80)	DIODE	1SS355
D	3003(B,216,88)	DIODE	1SS355
D	3004(B,213,88)	DIODE	1SS355
D	3005(B,247,82)	DIODE	1SS355
D	3006(B,244,82)	DIODE	1SS355
D	3007(B,291,79)	DIODE	1SS355
D	3008(B,289,79)	DIODE	1SS355
D	3009(B,217,99)	DIODE	1SS355
D	3010(B,215,99)	DIODE	1SS355
L	3011(A,188,78)	COIL	ATH1053
L	3021(A,146,69)	COIL	ATH1053
L	3031(A,199,83)	COIL	ATH1053
L	3041(A,258,82)	COIL	ATH1053
L	3051(A,236,90)	COIL	ATH1053
L	3061(A,299,74)	COIL	ATH1053
L	3071(A,280,84)	COIL	ATH1053
J	3009(A,174,89)	CONNECTOR ASSY	PF13PG-R07
KN	3001(A,318,64)	WRAPPING TERMINAL	VNF1084
RY	3001(A,163,81)	RELAY	ASR7001
RY	3002(A,211,89)	RELAY	ASR7001
RY	3003(A,242,83)	RELAY	ASR7001
RY	3004(A,286,82)	RELAY	ASR7001
RY	3005(A,219,103)	RELAY	ASR7001
CN	3001(A,190,33)	SPEAKER TERMINAL 8-P	AKE7119
CN	3002(A,274,33)	SPEAKER TERMINAL 6-P	AKE7108
CN	3007(A,313,90)	5P PLUG 5P PLUG	KM200TA5
CN	3008(A,313,145)	9P PLUG	KM200TA9
Y	13	AWG14 BOARD IN	ADX7512
Y	8	AWG14 BOARD IN	ADX7512

RESISTORS

⚠ R	3011(A,187,68)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	3012(A,175,64)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	3013(A,193,94)	METAL OXIDE RESISTOR	RS2LMF331J
⚠ R	3021(A,148,79)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	3022(A,152,51)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	3023(A,188,97)	METAL OXIDE RESISTOR	RS2LMF331J
⚠ R	3031(A,196,87)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	3032(A,194,67)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	3041(A,254,82)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	3042(A,267,67)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	3051(A,240,93)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	3052(A,237,79)	METAL OXIDE RESISTOR	RS1LMF100J
⚠ R	3061(A,309,63)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠ R	3062(A,313,73)	METAL OXIDE RESISTOR	RS1LMF100J

Mark	No.	Description	Part No.
⚠	R 3071(A,280,88)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 3072(A,268,94)	METAL OXIDE RESISTOR	RS1LMF100J
⚠	R 3101(A,222,115)	CARBON FILM RESISTOR	RD1/4MUF473J
⚠	R 3102(A,252,115)	CARBON FILM RESISTOR	RD1/4MUF473J

CAPACITORS

	C 3001(A,164,89)		CEAT101M50
	C 3011(A,190,60)		CFTLA104J50
	C 3012(A,203,53)		CFTLA104J50
	C 3013(A,190,42)	FILM CAPACITOR	CQMBA103J50
	C 3021(A,157,48)		CFTLA104J50
	C 3022(A,157,39)		CFTLA104J50
	C 3023(A,169,42)	FILM CAPACITOR	CQMBA103J50
	C 3031(A,205,66)		CFTLA104J50
	C 3032(A,200,60)		CFTLA104J50
	C 3033(A,211,42)	FILM CAPACITOR	CQMBA103J50
	C 3041(A,257,63)		CFTLA104J50
	C 3042(A,253,57)		CFTLA104J50
	C 3043(A,253,42)	FILM CAPACITOR	CQMBA103J50
	C 3051(A,224,70)		CFTLA104J50
	C 3052(A,230,70)		CFTLA104J50
	C 3053(A,232,42)	FILM CAPACITOR	CQMBA103J50
	C 3061(A,308,58)		CFTLA104J50
	C 3062(A,302,53)		CFTLA104J50
	C 3063(A,295,42)	FILM CAPACITOR	CQMBA103J50
	C 3071(A,274,70)		CFTLA104J50
	C 3072(A,279,65)		CFTLA104J50
	C 3073(A,274,42)	FILM CAPACITOR	CQMBA103J50
	C 3091(B,181,50)		CKSRYB222K50
	C 3092(B,179,50)		CKSRYB222K50
	C 3093(B,265,50)		CKSRYB222K50
	C 3094(B,263,50)		CKSRYB222K50
	C 3096(B,318,55)		CKSRYB222K50
	C 3101(A,212,137)		ACH7255
	C 3102(A,258,137)		ACH7255

X TRANS 2-2 ASSY

MISCELLANEOUS

	H 3401(A,120,100)	FUSE CLIP	AKR7001
	H 3402(A,98,100)	FUSE CLIP	AKR7001
	H 3403(A,120,87)	FUSE CLIP	AKR7001
	H 3404(A,98,87)	FUSE CLIP	AKR7001
	H 3405(A,120,74)	FUSE CLIP	AKR7001
	H 3406(A,98,74)	FUSE CLIP	AKR7001
	H 3407(A,119,57)	FUSE CLIP	AKR7001
	H 3408(A,97,57)	FUSE CLIP	AKR7001
	H 3409(A,120,45)	FUSE CLIP	AKR7001
	H 3410(A,98,45)	FUSE CLIP	AKR7001
	J 3401(A,132,97)	CONNECTOR ASS'Y	PF12PG-R40

Y TRANS SIDE ASSY

MISCELLANEOUS

	J 3201	JUMPER WIRE	D20PDY0410E
	CN3202(A,60,8)	CONNECTOR	CKS3382
	CN3203(A,319,21)	CONNECTOR	B13B-PH
	3201(A,84,28)	4P CABLE HOLDER	51048-0400

Mark	No.	Description	Part No.

Z LOCAL P-SUPPLY ASSY

MISCELLANEOUS

⚠	IC 3502(A,120,181)	PROTECTOR(1.6A)	AEK7012
⚠	IC 3504(A,80,176)	IC	NJM78M05FA
⚠	IC 3505(A,80,226)	REGULATOR IC	NJM78M56FA
⚠	IC 3506(A,80,201)	IC	NJM79M05FA
⚠	IC 3510(A,111,238)	PROTECTOR(1.6A)	AEK7012
⚠	Q 3501(B,110,149)	TRANSISTOR	UMD2N
⚠	Q 3502(A,80,151)	TRANSISTOR	2SD1763A
	Q 3503(B,144,140)	DIGITAL TRANSISTOR	DTC124EUA
	Q 3504(B,109,230)	CHIP TRANSISTOR	RSR015P03
	Q 3505(B,115,232)	DIGITAL TRANSISTOR	DTC124EUA
⚠	D 3501(B,120,163)	DIODE	1SR154-400
⚠	D 3502(B,124,163)	DIODE	1SR154-400
⚠	D 3503(B,128,163)	DIODE	1SR154-400
	D 3504(B,136,146)	DIODE	UDZS6R2(B)
	D 3505(B,138,146)	DIODE	UDZS6R2(B)
	D 3506(B,141,146)	DIODE	UDZS6R2(B)
	D 3507(B,143,146)	DIODE	UDZS6R2(B)
	D 3508(B,142,180)	DIODE	UDZS6R2(B)
⚠	D 3509(B,108,160)	DIODE	1SR154-400
⚠	D 3510(B,113,160)	DIODE	1SR154-400
	D 3511(B,106,137)	DIODE	UDZS27(B)
⚠	D 3512(A,117,196)	DIODE	D3SBA20(B)
	D 3513(B,86,180)	CHIP DIODE	RB501V-40
⚠	D 3514(A,95,181)	DIODE	MTZJ6R2(B)
	D 3515(B,87,236)	CHIP DIODE	RB501V-40
	D 3516(B,87,204)	CHIP DIODE	RB501V-40
	D 3529(B,80,196)	DIODE	1SS355
	J 3502	9P JUMPER WIRE	D20PDY0915E
	J 3503(A,152,132)	CONNECTOR ASSY	PF05PG-Q15
	J 3504(A,160,239)	CONNECTOR ASSY	PF10PG-R07
	J 3505(A,138,232)	CONNECTOR ASSY	PF09PG-R37
	J 3506	JUMPER WIRE	D20PDY0410E
	CN3501(A,141,151)	CONNECTOR	B12B-PH
	3502(A,149,215)	9P CABLE HOLDER	51048-0900
	3506(A,150,167)	4P CABLE HOLDER	51048-0400

RESISTORS

	R 3501(B,120,152)		RS1/16S473J
⚠	R 3503(A,127,156)	CARBON FILM RESISTOR	RD1/4MUF391J
	R 3504(B,111,142)		RS1/16S472J
	R 3505(B,108,142)		RS1/16S101J
	R 3506(B,140,139)		RS1/16S222J
⚠	R 3508(A,134,181)	CARBON FILM RESISTOR	RD1/4MUF4R7J
	R 3511(B,106,235)		RS1/16S103J
	R 3512(B,113,235)		RS1/16S101J

CAPACITORS

	C 3501(A,150,148)	FILM CAPACITOR	CQMBA104J50
	C 3502(A,122,168)	ELECT. CAPACITOR	CEANP101M35
	C 3503(A,118,157)	ELECT. CAPACITOR	CEAT101M35
	C 3504(A,123,147)		CEAT221M35
	C 3505(A,139,179)		CEAT101M16
	C 3506(A,133,145)		CEAT470M50
	C 3508(B,122,152)		CKSRYB103K50
	C 3510(A,110,171)	ELECT. CAPACITOR	CEANP102M16
	C 3511(A,107,154)	ELECT. CAPACITOR	CEAT102M35
	C 3512(A,112,133)		CEAT100M50

Mark	No.	Description	Part No.
C	3513(B,83,149)		CKSRYB102K50
C	3514(A,145,136)		CEAT100M50
C	3515(A,137,140)	ELECT. CAPACITOR	CEANP470M25
C	3516(A,122,187)	FILM CAPACITOR	CQMBA104J50
C	3517(B,83,175)		CKSRYB103K50
C	3518(A,85,189)		CEAT221M16
C	3519(A,117,208)	ELECT. CAPACITOR	CEAT682M16
C	3520(A,134,208)	ELECT. CAPACITOR	CEAT222M16
C	3521(B,83,224)		CKSRYB103K50
C	3522(B,87,201)		CKSRYB103K50
C	3523(A,88,227)		CEAT101M16
C	3524(A,85,214)		CEAT101M16

AA DC/DC ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	651 (A,43,196)	REGULATOR IC	PQ1CG3032FZ
⚠ Q	651 (A,65,206)	TRANSISTOR	2SD1858X
D	651 (B,45,207)	DIODE	RB051L-40
D	652 (B,66,211)	DIODE	UDZS7R5(B)
⚠ D	653 (A,38,152)	DIODE	D3SBA20(B)
⚠ D	654 (A,68,231)	DIODE	MTZJ6R2(B)
L	651 (A,50,212)	INDUCTOR	ATH7020
KN	651 (A,40,181)	SCREW PLATE	VNE1948
CN	651 (A,70,221)	3P TOP POST	B3B-EH
CN	652 (A,70,166)	4P JUMPER CONNECTOR	52147-0410
	651 (A,52,146)	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
⚠ R	651 (A,64,164)	CARBON FILM RESISTOR	RD1/4MUF4R7J
R	652 (B,39,194)	CHIP METAL FILM R	RN1/16SE1800D
R	653 (B,38,195)		RN1/16SE3001D
R	654 (B,41,192)		RN1/16SE1001D
R	655 (B,64,210)		RS1/16S302J
R	656 (B,62,210)		RS1/16S101J

CAPACITORS

Mark	No.	Description	Part No.
C	651 (A,68,150)	FILM CAPACITOR	CQMBA104J50
C	654 (A,59,176)	ELECT. CAPACITOR	CEAT103M16
C	655 (A,67,189)	ELECT. CAPACITOR	CEHAZL102M16
C	657 (A,55,226)	ELECT. CAPACITOR	CEHAZL102M6R3
C	658 (A,67,214)		CEAT101M16
C	659 (A,69,206)		CEAT101M16

AB IR I/O ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ Q	3751(B,34,66)	TRANSISTOR	2SD1664
D	3752(B,41,60)	DIODE	UDZS10(B)
KN	3751(A,40,91)	SCREW PLATE	VNE1948
CN	3701(A,58,46)	10P CONNECTOR	VKN1241
CN	3702(A,74,44)	23P SOCKET	XKP3082
CN	3703(A,28,43)	CONNECTOR	CKS3376

RESISTORS

Mark	No.	Description	Part No.
R	3703(B,25,84)		RS1/16S0R0J
R	3752(A,38,66)	CARBON FILM RESISTOR	RD1/4MUF391J
R	3755(B,48,62)		RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	3701(B,49,81)		CKSRYB104K50
C	3702(B,27,84)		CCSRCH471J50
C	3752(A,38,61)		CEAT101M16
C	3753(B,26,71)		CKSRYB103K50
C	3754(B,24,71)		CKSRYB104K50
C	3755(B,28,71)		CKSRYB105K10
C	3756(B,67,56)		CKSRYB103K50
C	3757(B,71,58)		CCSRCH471J50

AC VIDEO CONNECT ASSY

MISCELLANEOUS

CN	3801(A,288,240)	CONNECTOR POST	S9B-PH
CN	3802(A,298,175)	21P PLUG	XKP3070
CN	3803(A,305,198)	15P PLUG	XKP3067
CN	3804(A,308,222)	13P PLUG	XKP3066

POWER AMP ASSY (AWK7920)

MISCELLANEOUS

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

AD POWER AMP-L ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ IC	5001(A,174,135)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5002(A,208,135)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5101(A,106,135)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5102(A,140,135)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5201(A,242,135)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5202(A,276,135)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5601(A,310,135)	DARLINGTON POWER IC	SAP17N(OY)
Q	5001(B,186,207)	CHIP TRANSISTOR	2SD2704K
Q	5002(B,174,194)	TRANSISTOR	IMT4
Q	5003(B,188,198)	CHIP TRANSISTOR	2SA1514K
⚠ Q	5004(A,185,184)	TRANSISTOR	2SA1145
Q	5005(A,161,191)	TRANSISTOR	2SC2705
Q	5041(B,149,195)	CHIP TR	2SA1255
Q	5101(B,132,207)	CHIP TRANSISTOR	2SD2704K
Q	5102(B,120,194)	TRANSISTOR	IMT4
Q	5103(B,134,198)	CHIP TRANSISTOR	2SA1514K
⚠ Q	5104(A,131,184)	TRANSISTOR	2SA1145
Q	5105(A,108,191)	TRANSISTOR	2SC2705
Q	5141(B,91,201)	CHIP TR	2SA1255
Q	5201(B,274,206)	CHIP TRANSISTOR	2SD2704K
Q	5202(B,262,193)	TRANSISTOR	IMT4
Q	5203(B,276,197)	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,190,188)	CHIP ZENER DIODE	UDZS3R6(B)
⚠ D	5002(B,188,188)	DIODE	1SS355
⚠ D	5003(B,180,184)	DIODE	1SS355

Mark	No.	Description	Part No.
⚠ D	5004(B,172,184)	DIODE	1SS355
⚠ D	5005(B,177,184)	DIODE	UDZS4R7(B)
⚠ D	5006(B,175,184)	DIODE	UDZS4R7(B)
D	5041(B,149,174)	DIODE	1SS355
D	5042(B,151,174)	DIODE	1SS355
D	5043(B,151,203)	DIODE	1SS355
D	5044(B,154,171)	DIODE	1SS355
⚠ D	5101(B,137,188)	CHIP ZENER DIODE	UDZS3R6(B)
⚠ D	5102(B,135,188)	DIODE	1SS355
⚠ D	5103(B,126,184)	DIODE	1SS355
⚠ D	5104(B,119,184)	DIODE	1SS355
⚠ D	5105(B,124,184)	DIODE	UDZS4R7(B)
⚠ D	5106(B,121,184)	DIODE	UDZS4R7(B)
D	5141(B,91,188)	DIODE	1SS355
D	5142(B,95,188)	DIODE	1SS355
D	5143(B,95,202)	DIODE	1SS355
D	5144(B,97,188)	DIODE	1SS355
⚠ D	5201(B,279,187)	CHIP ZENER DIODE	UDZS3R6(B)
⚠ D	5202(B,276,187)	DIODE	1SS355
⚠ D	5203(B,268,183)	DIODE	1SS355
⚠ D	5204(B,261,183)	DIODE	1SS355
⚠ D	5205(B,266,183)	DIODE	UDZS4R7(B)
⚠ D	5206(B,263,183)	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
CN	5001(A,319,200)	13P SOCKET	XKP3077
CN	5002(A,85,214)	11P SOCKET	XKP3076
CN	5003(A,312,191)	PLUG 6-P	KM250NA6L
CN	5004(A,176,224)	CONNECTOR POST	B2B-PH
	5001(A,160,225)	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	5001(B,192,202)		RS1/16S102J
R	5002(B,180,202)		RS1/16S221J
R	5003(B,177,203)		RS1/16S333J
R	5004(B,192,205)		RS1/16S103J
R	5005(B,170,191)		RS1/16S152J
R	5006(B,168,198)		RS1/16S821J
R	5007(B,191,197)		RS1/16S2001F
R	5008(B,179,194)		RS1/16S682J
R	5009(A,183,193)	CARBON FILM RESISTOR	RD1/2VM473J
R	5010(B,190,183)		RS1/16S151J
R	5011(B,188,184)		RN1/16SE1201D
R	5012(B,162,195)		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,196,166)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5024(A,162,176)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5025(B,163,156)	CHIP RESISTOR	ACN7132
⚠ R	5026(B,200,156)	CHIP RESISTOR	ACN7132
⚠ R	5027(A,190,166)	RESISTOR (0.18, 5W)	ACN7121
R	5029(B,167,203)		RN1/10SE3302D
R	5030(B,173,203)		RN1/16SE1001D
R	5031(B,173,205)		RN1/16SE1500D
R	5032(B,160,195)		RS1/16S151J
R	5041(B,147,169)		RS1/16S473J
R	5042(B,149,169)		RS1/16S223J
R	5043(B,145,169)		RS1/16S471J
R	5044(B,151,169)		RS1/16S471J
R	5045(B,151,179)		RS1/16S472J
R	5046(B,154,179)		RS1/16S472J
R	5047(B,150,187)		RS1/16S122J
R	5048(B,151,183)		RS1/16S154J
R	5049(B,154,183)		RS1/16S103J
R	5050(B,152,187)		RS1/16S103J
R	5101(B,139,202)		RS1/16S102J
R	5102(B,126,202)		RS1/16S221J
R	5103(B,123,203)		RS1/16S333J
R	5104(B,139,205)		RS1/16S103J
R	5105(B,116,191)		RS1/16S152J
R	5106(B,115,198)		RS1/16S821J
R	5107(B,138,197)		RS1/16S2001F
R	5108(B,126,194)		RS1/16S682J
R	5109(A,130,193)	CARBON FILM RESISTOR	RD1/2VM473J
R	5110(B,137,183)		RS1/16S151J
R	5111(B,135,184)		RN1/16SE1201D
R	5112(B,109,195)		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,138,166)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5124(A,108,176)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5125(B,99,156)	CHIP RESISTOR	ACN7132
⚠ R	5126(B,136,156)	CHIP RESISTOR	ACN7132
⚠ R	5127(A,132,166)	RESISTOR (0.18, 5W)	ACN7121
R	5129(B,113,203)		RN1/10SE3302D
R	5130(B,119,203)		RN1/16SE1001D
R	5131(B,119,205)		RN1/16SE1500D
R	5132(B,106,195)		RS1/16S151J
R	5141(B,93,184)		RS1/16S473J
R	5142(B,95,184)		RS1/16S223J
R	5143(B,91,184)		RS1/16S471J
R	5144(B,97,184)		RS1/16S471J
R	5145(B,93,193)		RS1/16S472J
R	5146(B,96,193)		RS1/16S472J
R	5147(B,89,196)		RS1/16S122J
R	5148(B,95,197)		RS1/16S154J
R	5149(B,97,197)		RS1/16S103J
R	5150(B,97,202)		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,257,198)		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,251,195)		RS1/16S221J
⚠ R	5213(B,257,149)		RS1/16S330J
R	5221(B,251,153)		RS1/16S101J
R	5222(B,265,153)		RS1/16S101J
⚠ R	5223(A,280,164)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠ R	5224(A,249,175)	CARBON FILM RESISTOR	RD1/4MUF4R7J

Mark	No.	Description	Part No.
⚠ R	5225(B,238,156)	CHIP RESISTOR	ACN7132
⚠ R	5226(B,276,156)	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,317,154)		RS1/16S330J
R	5621(B,312,154)		RS1/16S101J

CAPACITORS

C	5001(A,183,203)		CEAT4R7M50
C	5002(B,177,200)		CCSRCH221J50
C	5004(B,167,194)		CKSRYB102K50
C	5007(A,195,193)		CEAT101M10
C	5008(B,164,195)	CAPACITOR(CERAMIC)	ACG7057
C	5009(A,179,189)	ELECT. CAPACITOR	CEAT100M2A
C	5011(B,169,142)	CAPACITOR(CERAMIC)	ACG7056
C	5012(B,197,142)	CAPACITOR(CERAMIC)	ACG7056
C	5015(B,168,205)		CCSRCH220J50
C	5016(B,168,207)		CCSRCH220J50
C	5017(A,172,207)		CEAT331M10
C	5023(A,190,180)		CEAT100M63
C	5024(A,166,184)		CEAT100M63
C	5032(B,162,199)		CKSRYB224K16
C	5041(A,147,190)		CEANP2R2M50
C	5051(A,217,183)	ELECT. CAPACITOR	CEAT100M2A
C	5052(A,222,177)	ELECT. CAPACITOR	CEAT100M2A
C	5101(A,129,203)		CEAT4R7M50
C	5102(B,123,200)		CCSRCH221J50
C	5104(B,113,194)		CKSRYB102K50
C	5107(A,141,193)		CEAT101M10
C	5108(B,111,195)	CAPACITOR(CERAMIC)	ACG7057
C	5109(A,125,189)	ELECT. CAPACITOR	CEAT100M2A
C	5111(B,101,142)	CAPACITOR(CERAMIC)	ACG7056
C	5112(B,130,142)	CAPACITOR(CERAMIC)	ACG7056
C	5115(B,115,205)		CCSRCH220J50
C	5116(B,115,207)		CCSRCH220J50
C	5117(A,119,207)		CEAT331M10
C	5123(A,137,180)		CEAT100M63
C	5124(A,112,184)		CEAT100M63
C	5132(B,108,199)		CKSRYB224K16
C	5141(A,88,191)		CEANP2R2M50
C	5201(A,271,202)		CEAT4R7M50
C	5202(B,265,199)		CCSRCH221J50
C	5204(B,255,194)		CKSRYB102K50
C	5207(A,283,192)		CEAT101M10
C	5208(B,253,195)	CAPACITOR(CERAMIC)	ACG7057
C	5209(A,267,187)	ELECT. CAPACITOR	CEAT100M2A
C	5211(B,243,142)	CAPACITOR(CERAMIC)	ACG7056
C	5212(B,271,142)	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,255,184)		CEAT100M63
C	5232(B,250,199)		CKSRYB224K16
C	5241(A,237,192)		CEANP2R2M50
C	5611(B,307,142)	CAPACITOR(CERAMIC)	ACG7056

AE POSI 1-L ASSY

MISCELLANEOUS

⚠ TH	4501(A,54,223)	POSISTOR	PTFM04BH222Q2N34B0
J	4501(A,66,220)	CONNECTOR ASSY	PG02KS-E07

AF POSI 2-L ASSY

MISCELLANEOUS

⚠ TH	4502(A,79,235)	POSISTOR	PTFM04BC222Q2N34B0
J	4502(A,76,223)	CONNECTOR ASSY	PG02KS2E07

AG POWER AMP-R ASSY

MISCELLANEOUS

⚠ IC	5301(A,196,111)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5302(A,162,111)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5401(A,128,111)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5402(A,94,111)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5501(A,264,111)	DARLINGTON POWER IC	SAP17N(OY)
⚠ IC	5502(A,230,111)	DARLINGTON POWER IC	SAP17P(OY)
⚠ IC	5602(A,298,111)	DARLINGTON POWER IC	SAP17P(OY)
Q	5301(B,186,38)	CHIP TRANSISTOR	2SD2704K
Q	5302(B,176,52)	TRANSISTOR	IMT4
Q	5303(B,187,48)	CHIP TRANSISTOR	2SA1514K
⚠ Q	5304(A,185,62)	TRANSISTOR	2SA1145
Q	5305(A,161,55)	TRANSISTOR	2SC2705
Q	5341(B,146,56)	CHIP TR	2SA1255
Q	5401(B,132,38)	CHIP TRANSISTOR	2SD2704K
Q	5402(B,122,52)	TRANSISTOR	IMT4
Q	5403(B,133,48)	CHIP TRANSISTOR	2SA1514K
⚠ Q	5404(A,131,62)	TRANSISTOR	2SA1145
Q	5405(A,108,55)	TRANSISTOR	2SC2705
Q	5441(B,91,45)	CHIP TR	2SA1255
Q	5501(B,275,38)	CHIP TRANSISTOR	2SD2704K
Q	5502(B,266,52)	TRANSISTOR	IMT4
Q	5503(B,277,48)	CHIP TRANSISTOR	2SA1514K
⚠ Q	5504(A,274,63)	TRANSISTOR	2SA1145
Q	5505(A,252,55)	TRANSISTOR	2SC2705
Q	5541(B,239,49)	CHIP TR	2SA1255
Q	5571(B,223,38)	TRANSISTOR	2SC4081
Q	5572(B,220,38)	TRANSISTOR	2SC4081
⚠ D	5301(B,191,58)	CHIP ZENER DIODE	UDZS3R6(B)
⚠ D	5302(B,188,58)	DIODE	1SS355
⚠ D	5303(B,180,62)	DIODE	1SS355
⚠ D	5304(B,173,62)	DIODE	1SS355
⚠ D	5305(B,177,62)	DIODE	UDZS4R7(B)
⚠ D	5306(B,175,62)	DIODE	UDZS4R7(B)
D	5341(B,151,71)	DIODE	1SS355

Mark	No.	Description	Part No.
	D 5342(B,149,71)	DIODE	1SS355
	D 5343(B,150,50)	DIODE	1SS355
	D 5344(B,153,71)	DIODE	1SS355
⚠	D 5401(B,137,58)	CHIP ZENER DIODE	UDZS3R6(B)
⚠	D 5402(B,135,58)	DIODE	1SS355
⚠	D 5403(B,126,62)	DIODE	1SS355
⚠	D 5404(B,119,62)	DIODE	1SS355
⚠	D 5405(B,124,62)	DIODE	UDZS4R7(B)
⚠	D 5406(B,122,62)	DIODE	UDZS4R7(B)
	D 5441(B,95,58)	DIODE	1SS355
	D 5442(B,92,58)	DIODE	1SS355
	D 5443(B,94,41)	DIODE	1SS355
	D 5444(B,97,58)	DIODE	1SS355
⚠	D 5501(B,280,59)	CHIP ZENER DIODE	UDZS3R6(B)
⚠	D 5502(B,277,59)	DIODE	1SS355
⚠	D 5503(B,267,62)	DIODE	1SS355
⚠	D 5504(B,261,62)	DIODE	1SS355
⚠	D 5505(B,265,62)	DIODE	UDZS4R7(B)
⚠	D 5506(B,263,62)	DIODE	UDZS4R7(B)
	D 5541(B,240,71)	DIODE	1SS355
	D 5542(B,238,71)	DIODE	1SS355
	D 5543(B,240,45)	DIODE	1SS355
	D 5544(B,242,73)	DIODE	1SS355
	CN5301(A,319,31)	13P SOCKET	XKP3077
	CN5302(A,85,45)	11P SOCKET	XKP3076
	CN5303(A,312,68)	PLUG 6-P	KM250NA6L
	CN5304(A,143,23)	CONNECTOR POST	B2B-PH
	5002(A,236,21)	PCB BINDER	VEF1040

RESISTORS

	R 5301(B,192,43)		RS1/16S102J
	R 5302(B,180,42)		RS1/16S221J
	R 5303(B,177,41)		RS1/16S333J
	R 5304(B,192,40)		RS1/16S103J
	R 5305(B,170,55)		RS1/16S152J
	R 5306(B,168,47)		RS1/16S821J
	R 5307(B,190,48)		RS1/16S2001F
	R 5308(B,179,54)		RS1/16S682J
	R 5309(A,183,48)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5310(B,191,62)		RS1/16S151J
	R 5311(B,188,62)		RN1/16SE1201D
	R 5312(B,162,51)		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,196,79)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5324(A,161,70)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5325(B,203,91)	CHIP RESISTOR	ACN7132
⚠	R 5326(B,166,91)	CHIP RESISTOR	ACN7132
⚠	R 5327(A,172,80)	RESISTOR (0.18, 5W)	ACN7121
	R 5329(B,168,44)		RN1/10SE3302D
	R 5330(B,173,45)		RN1/16SE1001D
	R 5331(B,173,43)		RN1/16SE1500D
	R 5332(B,160,51)		RS1/16S151J
	R 5341(B,150,75)		RS1/16S473J
	R 5342(B,148,75)		RS1/16S223J
	R 5343(B,153,75)		RS1/16S471J
	R 5344(B,146,75)		RS1/16S471J
	R 5345(B,152,65)		RS1/16S472J
	R 5346(B,149,65)		RS1/16S472J
	R 5347(B,145,62)		RS1/16S122J
	R 5348(B,148,61)		RS1/16S154J
	R 5349(B,150,61)		RS1/16S103J
	R 5350(B,150,55)		RS1/16S103J
	R 5401(B,139,43)		RS1/16S102J
	R 5402(B,126,42)		RS1/16S221J
	R 5403(B,123,41)		RS1/16S333J
	R 5404(B,139,40)		RS1/16S103J
	R 5405(B,116,55)		RS1/16S152J
	R 5406(B,114,47)		RS1/16S821J
	R 5407(B,137,48)		RS1/16S2001F
	R 5408(B,126,54)		RS1/16S682J
	R 5409(A,129,48)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5410(B,137,62)		RS1/16S151J
	R 5411(B,135,62)		RN1/16SE1201D
	R 5412(B,109,51)		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,138,80)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5424(A,107,70)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5425(B,135,91)	CHIP RESISTOR	ACN7132
⚠	R 5426(B,99,91)	CHIP RESISTOR	ACN7132
⚠	R 5427(A,114,80)	RESISTOR (0.18, 5W)	ACN7121
	R 5429(B,114,44)		RN1/10SE3302D
	R 5430(B,119,45)		RN1/16SE1001D
	R 5431(B,119,43)		RN1/16SE1500D
	R 5432(B,106,51)		RS1/16S151J
	R 5441(B,95,63)		RS1/16S473J
	R 5442(B,93,63)		RS1/16S223J
	R 5443(B,97,63)		RS1/16S471J
	R 5444(B,91,63)		RS1/16S471J
	R 5445(B,96,54)		RS1/16S472J
	R 5446(B,92,54)		RS1/16S472J
	R 5447(B,88,49)		RS1/16S122J
	R 5448(B,94,50)		RS1/16S154J
	R 5449(B,96,50)		RS1/16S103J
	R 5450(B,96,46)		RS1/16S103J
	R 5501(B,283,44)		RS1/16S102J
	R 5502(B,270,42)		RS1/16S221J
	R 5503(B,267,41)		RS1/16S333J
	R 5504(B,283,40)		RS1/16S103J
	R 5505(B,260,55)		RS1/16S152J
	R 5506(B,258,47)		RS1/16S821J
	R 5507(B,281,48)		RS1/16S2001F
	R 5508(B,270,54)		RS1/16S682J
	R 5509(A,273,48)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5510(B,280,63)		RS1/16S151J
	R 5511(B,277,63)		RN1/16SE1201D
	R 5512(B,253,51)		RS1/16S221J
⚠	R 5513(B,257,97)		RS1/16S330J
	R 5521(B,268,94)		RS1/16S101J
	R 5522(B,251,93)		RS1/16S101J
⚠	R 5523(A,280,82)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5524(A,250,70)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5525(B,277,91)	CHIP RESISTOR	ACN7132
⚠	R 5526(B,241,91)	CHIP RESISTOR	ACN7132
⚠	R 5527(A,256,80)	RESISTOR (0.18, 5W)	ACN7121
	R 5529(B,258,44)		RN1/10SE3302D

Mark	No.	Description	Part No.
	R 5530(B,263,45)		RN1/16SE1001D
	R 5531(B,263,43)		RN1/16SE1500D
	R 5532(B,250,51)		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,236,64)		RS1/16S103J
	R 5550(B,242,46)		RS1/16S103J
	R 5571(B,226,38)		RS1/16S472J
⚠	R 5592(B,301,91)	CHIP RESISTOR	ACN7132
	R 5622(B,311,93)		RS1/16S101J

CAPACITORS

	C 5301(A,183,43)		CEAT4R7M50
	C 5302(B,177,43)		CCSRCH221J50
	C 5304(B,167,51)		CKSRYB102K50
	C 5307(A,195,53)		CEAT101M10
	C 5308(B,164,51)	CAPACITOR(CERAMIC)	ACG7057
	C 5309(A,179,58)	ELECT. CAPACITOR	CEAT100M2A
	C 5311(B,197,104)	CAPACITOR(CERAMIC)	ACG7056
	C 5312(B,170,104)	CAPACITOR(CERAMIC)	ACG7056
	C 5315(B,168,41)		CCSRCH220J50
	C 5316(B,168,39)		CCSRCH220J50
	C 5317(A,172,39)		CEAT331M10
	C 5323(A,190,66)		CEAT100M63
	C 5324(A,165,62)		CEAT100M63
	C 5332(B,162,47)		CKSRYB224K16
	C 5341(A,145,66)		CEANP2R2M50
	C 5351(A,226,68)	ELECT. CAPACITOR	CEAT100M2A
	C 5352(A,222,62)	ELECT. CAPACITOR	CEAT100M2A
	C 5401(A,129,43)		CEAT4R7M50
	C 5402(B,123,43)		CCSRCH221J50
	C 5404(B,113,51)		CKSRYB102K50
	C 5407(A,141,53)		CEAT101M10
	C 5408(B,111,51)	CAPACITOR(CERAMIC)	ACG7057
	C 5409(A,125,58)	ELECT. CAPACITOR	CEAT100M2A
	C 5411(B,130,104)	CAPACITOR(CERAMIC)	ACG7056
	C 5412(B,101,104)	CAPACITOR(CERAMIC)	ACG7056
	C 5415(B,114,41)		CCSRCH220J50
	C 5416(B,114,39)		CCSRCH220J50
	C 5417(A,119,39)		CEAT331M10
	C 5423(A,137,66)		CEAT100M63
	C 5424(A,111,62)		CEAT100M63
	C 5432(B,108,47)		CKSRYB224K16
	C 5441(A,88,53)		CEANP2R2M50
	C 5501(A,273,43)		CEAT4R7M50
	C 5502(B,267,43)		CCSRCH221J50
	C 5504(B,257,51)		CKSRYB102K50
	C 5507(A,284,54)		CEAT101M10
	C 5508(B,255,51)	CAPACITOR(CERAMIC)	ACG7057
	C 5509(A,267,58)	ELECT. CAPACITOR	CEAT100M2A
	C 5511(B,271,104)	CAPACITOR(CERAMIC)	ACG7056
	C 5512(B,243,104)	CAPACITOR(CERAMIC)	ACG7056
	C 5515(B,258,41)		CCSRCH220J50
	C 5516(B,258,39)		CCSRCH220J50
	C 5517(A,263,39)		CEAT331M10
	C 5523(A,289,64)		CEAT100M63
	C 5524(A,254,62)		CEAT100M63
	C 5532(B,252,47)		CKSRYB224K16
	C 5541(A,238,54)		CEANP2R2M50
	C 5571(A,229,35)		CEAT331M10
	C 5612(B,307,104)	CAPACITOR(CERAMIC)	ACG7056

AH POSI 1-R ASSY

MISCELLANEOUS

⚠	TH 4503(A,54,235)	POSISTOR	PTFM04BH222Q2N34B0
	J 4551(A,66,232)	CONNECTOR ASSY	PG02KS-E07

AI POWER AMP IN ASSY

MISCELLANEOUS

	Q 5601(B,58,86)	CHIP TRANSISTOR	2SD2704K
	Q 5602(B,46,41)	TRANSISTOR	IMT4
	Q 5603(B,42,54)	CHIP TRANSISTOR	2SA1514K
⚠	Q 5604(A,32,55)	TRANSISTOR	2SA1145
	Q 5605(A,33,38)	TRANSISTOR	2SC2705
	Q 5641(B,11,26)	CHIP TR	2SA1255
⚠	D 5601(B,35,57)	CHIP ZENER DIODE	UDZS3R6(B)
⚠	D 5602(B,35,53)	DIODE	1SS355
⚠	D 5603(B,26,49)	DIODE	1SS355
⚠	D 5604(B,23,44)	DIODE	1SS355
⚠	D 5605(B,23,47)	DIODE	UDZS4R7(B)
⚠	D 5606(B,21,42)	DIODE	UDZS4R7(B)
	D 5641(B,18,23)	DIODE	1SS355
	D 5642(B,20,23)	DIODE	1SS355
	D 5643(B,13,21)	DIODE	1SS355
	D 5644(B,28,23)	DIODE	1SS355
	CN5601(A,71,64)	13P PLUG	XKP3066
	CN5602(A,56,31)	13P PLUG	XKP3066
	CN5603(A,76,131)	19P CONNECTOR	52044-1945
	CN5605(A,47,65)	SOCKET 6-P	KP250NA6
	CN5606(A,34,31)	SOCKET 6-P	KP250NA6
	5604(A,7,50)	5P CABLE HOLDER	51048-0500

RESISTORS

	R 5601(B,58,93)		RS1/16S102J
	R 5602(B,54,41)		RS1/16S221J
	R 5603(B,52,41)		RS1/16S333J
	R 5604(B,57,82)		RS1/16S103J
	R 5605(B,46,36)		RS1/16S152J
	R 5606(B,41,38)		RS1/16S821J
	R 5607(B,42,59)		RS1/16S2001F
	R 5608(B,42,42)		RS1/16S682J
	R 5609(A,32,46)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5610(B,30,59)		RS1/16S151J
	R 5611(B,33,59)		RN1/16SE1201D
	R 5612(B,33,34)		RS1/16S221J
⚠	R 5623(A,65,58)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5624(A,65,40)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5627(A,19,56)	RESISTOR (0.18, 5W)	ACN7121
	R 5629(B,47,48)		RN1/10SE3302D
	R 5630(B,49,46)		RN1/16SE1001D
	R 5631(B,49,51)		RN1/16SE1500D

Mark	No.	Description	Part No.
	R 5632(B,30,36)		RS1/16S151J
	R 5641(B,14,43)		RS1/16S473J
	R 5642(B,17,33)		RS1/16S223J
	R 5643(B,14,33)		RS1/16S471J
	R 5644(B,15,38)		RS1/16S471J
	R 5645(B,18,28)		RS1/16S472J
	R 5646(B,20,28)		RS1/16S472J
	R 5647(B,10,33)		RS1/16S122J
	R 5648(B,45,25)		RS1/16S154J
	R 5649(B,49,26)		RS1/16S103J
	R 5650(B,51,26)		RS1/16S103J

CAPACITORS

	C 5601(A,53,45)		CEAT4R7M50
	C 5602(B,50,41)		CCSRCH221J50
	C 5604(B,44,36)		CKSRYB102K50
	C 5607(A,38,57)		CEAT101M10
	C 5608(B,36,42)	CAPACITOR(CERAMIC)	ACG7057
	C 5609(A,27,51)	ELECT. CAPACITOR	CEAT100M2A
	C 5615(B,45,47)		CCSRCH220J50
	C 5616(B,42,49)		CCSRCH220J50
	C 5617(A,47,52)		CEAT331M10
	C 5623(A,69,58)		CEAT100M63
	C 5624(A,69,42)		CEAT100M63
	C 5632(B,28,39)		CKSRYB224K16
	C 5641(A,12,35)		CEANP2R2M50

AJ POWER PROTECT ASSY

MISCELLANEOUS

	IC 5701(B,19,110)	OP-AMP IC	BA4560RF
	Q 5701(B,26,161)	TRANSISTOR	RT1N241M
	Q 5702(B,16,161)	DIGITAL TR(SC-70)	RT1P241M
	Q 5703(B,16,151)	TRANSISTOR	RT1N241M
	Q 5704(B,33,100)	TRANSISTOR	2SC4081
	Q 5705(B,23,161)	TRANSISTOR	RT1N241M
	Q 5706(B,12,161)	DIGITAL TR(SC-70)	RT1P241M
	D 5701(B,23,94)	DIODE	1SS355
	D 5702(B,30,205)	DIODE	1SS355
	CN5701(A,28,171)	11P PLUG	XKP3065
	CN5702(A,15,138)	11P PLUG	XKP3065
	CN5703(A,8,85)	19P CONNECTOR	52044-1945
	CN5704(A,37,83)	CONNECTOR	S5B-PH
	CN5705(A,30,223)	17P CONNECTOR	52044-1745
	CN5706(A,38,222)	3PIN CONNECTOR	S3B-EH

RESISTORS

	R 5701(B,23,151)		RS1/16S562J
	R 5702(B,21,151)		RS1/16S562J
	R 5703(B,10,181)		RS1/16S473J
	R 5705(B,18,187)		RS1/16S0R0J
	R 5706(B,19,151)		RS1/16S822J
	R 5707(B,18,181)		RS1/16S473J
	R 5708(B,13,187)		RS1/16S0R0J
	R 5710(B,17,118)		RS1/16S223J
	R 5711(B,13,112)		RS1/16S103J
	R 5712(B,13,108)		RS1/16S472J
	R 5713(B,23,106)		RS1/16S103J
	R 5714(B,24,131)		RS1/16S102J
	R 5715(B,27,101)		RS1/16S473J
	R 5716(B,29,101)		RS1/16S472J
	R 5717(B,33,95)		RS1/16S103J
	R 5718(B,30,210)		RS1/16S104J
	R 5720(B,31,95)		RS1/16S103J
	R 5721(B,29,95)		RS1/16S683J
	R 5746(B,20,181)		RS1/16S0R0J
	R 5747(B,18,161)		RS1/16S0R0J
	R 5750(B,35,95)		RS1/16S0R0J
	R 5751(B,26,131)		RS1/16S0R0J
	R 5752(B,25,101)		RS1/16S0R0J

CAPACITORS

	C 5701(B,13,181)		CKSRYB104K50
	C 5702(B,15,181)		CKSRYB104K50
	C 5703(B,23,110)		CKSRYB103K50
	C 5704(B,23,114)		CKSRYB103K50
	C 5705(B,31,101)		CKSRYB223K50
	C 5706(B,37,217)		CKSRYB103K50

AK HDMI ASSY

MISCELLANEOUS

	IC 101 (A,53,65)	HDMI RECEIVER IC	SII9135CTU
	IC 151 (A,34,85)	EEPROM	BR24L02FV-W
	IC 152 (A,27,84)	IC	TC7MB3257FK
	IC 171 (A,21,68)	EEPROM	BR24L02FV-W
	IC 172 (A,27,69)	IC	TC7MB3257FK
	IC 201 (A,82,35)	IC	TC74LCX541FTS1
	IC 202 (A,91,24)	IC	TC74VHC125FTS1
	IC 301 (A,51,31)	HDMI TRANSMITER IC	SII9134CTU
	IC 401 (A,139,58)	VIDEO DECODER IC	ADV7800BSTZ-80
	IC 402 (A,162,66)	LOGIC IC	TC7WHU04FU
	IC 451 (A,79,73)	IC	TC74LCX541FTS1
	IC 452 (A,79,64)	IC	TC74LCX541FTS1
	IC 453 (A,79,54)	IC	TC74LCX541FTS1
	IC 454 (A,79,45)	IC	TC74LCX541FTS1
	IC 455 (A,80,79)	IC	TC7SZ125FU
	IC 501 (B,104,36)	CPU	PEG118A
	IC 502 (A,104,38)	FLASH ROM	AYW7166
	IC 503 (A,70,16)	IC	TC74VHC125FTS1
	IC 701 (A,105,59)	VIDEO ENCODER IC	ADV7172KSTZ
⚠	IC 901 (A,71,32)	IC	NJM2886DL3-33
⚠	IC 902 (A,147,22)	IC	BD9850FVM
⚠	IC 903 (B,135,28)	REGULATOR IC	NJM2845DL1-33
⚠	IC 904 (B,163,46)	IC	NJM2885DL1-18
⚠	IC 905 (A,158,39)	REGULATOR IC	NJM2845DL1-33
⚠	IC 911 (B,81,16)	REGULATOR IC	NJM2872BF05
	Q 101 (B,59,71)	DIGITAL TR(SC-70)	RT1N431M
	Q 102 (B,56,71)	DIGITAL TR(SC-70)	RT1P241M
	Q 103 (B,59,66)	DIGITAL TR(SC-70)	RT1N431M
	Q 104 (B,56,66)	DIGITAL TR(SC-70)	RT1P241M
	Q 151 (B,18,91)	CHIP TRANSISTOR	DTC114YUA
	Q 152 (B,27,84)	CHIP TRANSISTOR	DTC114YUA
	Q 161 (A,40,90)	DUAL MOS FET	HN1K02FU
	Q 171 (B,20,55)	CHIP TRANSISTOR	DTC114YUA
	Q 172 (B,29,69)	CHIP TRANSISTOR	DTC114YUA
	Q 351 (A,28,46)	CHIP TR (PNP X 2)	UMB1N
	Q 352 (A,24,46)	CHIP TRANSISTOR	DTC114YUA
	Q 731 (A,92,70)	TRANSISTOR	2SA1576A
	Q 741 (A,97,70)	TRANSISTOR	2SA1576A

Mark	No.	Description	Part No.
	Q 751 (A,101,70)	TRANSISTOR	2SA1576A
	Q 761 (A,106,70)	TRANSISTOR	2SA1576A
	Q 771 (A,110,70)	TRANSISTOR	2SA1576A
	Q 781 (A,115,70)	TRANSISTOR	2SA1576A
⚠	Q 901 (A,153,19)	MOS FET	RTQ025P02
	Q 902 (A,139,29)	CHIP TRANSISTOR	DTC114YUA
	Q 907 (A,138,25)	TRANSISTOR	2SC4081
	Q 908 (A,135,25)	CHIP TRANSISTOR	DTC114YUA
	D 151 (A,42,85)	DIODE	DAN202U
	D 171 (A,26,63)	DIODE	DAN202U
	D 301 (A,53,15)	DIODE	UDZS5R1(B)
	D 501 (A,87,39)	CHIP DIODE	RB501V-40
⚠	D 901 (A,151,15)	DIODE	RSX201L-30
	D 903 (A,123,33)	DIODE	RB551V-30
	L 101 (B,74,76)	CHIP BEADS	ATL7010
	L 102 (A,69,51)	CHIP BEADS	ATL7010
	L 103 (A,41,82)	CHIP BEADS	ATL7010
	L 104 (A,40,50)	CHIP BEADS	ATL7010
	L 105 (B,52,61)	CHIP SOLID INDUCTOR	QTL1013
	L 106 (B,54,61)	CHIP SOLID INDUCTOR	QTL1013
	L 301 (A,40,16)	CHIP BEADS	ATL7010
	L 302 (A,69,45)	CHIP BEADS	ATL7010
	L 303 (A,36,27)	CHIP BEADS	ATL7010
	L 304 (A,38,39)	CHIP BEADS	ATL7010
	L 305 (A,36,39)	CHIP BEADS	ATL7010
⚠	L 351 (A,22,29)	COIL COIL	ATH7022
⚠	L 352 (A,22,32)	COIL COIL	ATH7022
⚠	L 353 (A,22,34)	COIL COIL	ATH7022
⚠	L 354 (A,22,37)	COIL COIL	ATH7022
	L 401 (A,121,84)	CHIP BEADS	ATL7010
	L 402 (A,149,38)	CHIP BEADS	ATL7010
	L 403 (A,152,73)	CHIP SOLID INDUCTOR	QTL1013
	L 404 (A,137,84)	CHIP BEADS	ATL7010
	L 405 (A,161,72)	CHIP SOLID INDUCTOR	QTL1013
	L 502 (A,134,29)	CHIP BEADS	ATL7010
	L 701 (A,97,51)	CHIP BEADS	ATL7010
	L 702 (A,87,57)	CHIP BEADS	ATL7010
	L 902 (A,158,14)	POWER INDUCTOR	ATH7047
	L 903 (A,139,20)	CHIP BEADS	ATL7010
	L 1001(A,69,24)	CHIP BEADS	ATL7010
	JA 101 (A,13,79)	HDMI CONNECTOR	AKP1318
	JA 102 (A,13,57)	HDMI CONNECTOR	AKP1318
	JA 301 (A,13,35)	HDMI CONNECTOR	AKP1318
	X 101 (A,56,46)	CRYSTAL RESONATOR	ASS7068
	X 401 (A,161,58)	CRYSTAL RESONATOR	ASS7069
	X 501 (A,109,30)	CERAMIC RESONATOR	XSS3004
	CN501 (A,15,19)	7P FFC CONNECTOR	RKN1048
	CN1001(A,121,13)	30P SOCKET	XKP3092
	CN1002(A,83,81)	23P SOCKET	XKP3082

RESISTORS

	R 101 (A,67,70)	RESISTOR ARRAY	RAB4CQ220J
	R 102 (B,55,76)		RS1/16S150J
	R 103 (A,64,79)	RESISTOR ARRAY	RAB4CQ220J
	R 104 (A,59,79)	RESISTOR ARRAY	RAB4CQ220J
	R 105 (A,52,82)	RESISTOR ARRAY	RAB4CQ470J
	R 106 (A,49,82)		RS1/16S100J
	R 107 (A,48,82)		RS1/16S100J
	R 108 (A,45,82)	RESISTOR ARRAY	RAB4CQ100J
	R 109 (B,51,66)		RS1/16S102J
	R 110 (B,53,66)		RS1/16S103J
	R 111 (B,51,71)		RS1/16S102J
	R 112 (B,53,71)		RS1/16S103J
	R 113 (A,42,49)		RS1/16S101J
	R 114 (A,45,51)	RESISTOR ARRAY	RAB4CQ680J
	R 115 (A,49,51)	RESISTOR ARRAY	RAB4CQ680J
	R 116 (B,47,52)		RS1/16S470J
	R 117 (B,51,52)		RS1/16S100J
	R 118 (A,45,48)	RESISTOR ARRAY	RAB4CQ473J
	R 119 (A,49,47)	RESISTOR ARRAY	RAB4CQ473J
	R 120 (B,45,52)		RS1/16S473J
	R 121 (B,49,52)		RS1/16S473J
	R 122 (A,58,49)		RS1/16S105J
	R 123 (A,55,49)		RS1/16S152J
	R 124 (B,58,61)		RS1/16S472J
	R 125 (B,65,46)		RS1/16S471J
	R 126 (B,64,52)		RS1/16S221J
	R 127 (B,62,52)		RS1/16S221J
	R 128 (B,63,61)		RS1/16S472J
	R 130 (A,67,55)	RESISTOR ARRAY	RAB4CQ220J
	R 131 (A,67,60)	RESISTOR ARRAY	RAB4CQ220J
	R 132 (A,67,65)	RESISTOR ARRAY	RAB4CQ220J
	R 133 (B,51,76)		RS1/16S0R0J
	R 141 (A,40,73)	RESISTOR ARRAY	ACN1275
	R 142 (A,40,71)	RESISTOR ARRAY	ACN1275
	R 143 (A,40,69)	RESISTOR ARRAY	ACN1275
	R 144 (A,40,67)	RESISTOR ARRAY	ACN1275
	R 145 (A,40,64)	RESISTOR ARRAY	ACN1275
	R 146 (A,40,62)	RESISTOR ARRAY	ACN1275
	R 147 (A,40,60)	RESISTOR ARRAY	ACN1275
	R 148 (A,40,58)	RESISTOR ARRAY	ACN1275
	R 151 (B,30,86)		RS1/16S100J
	R 152 (B,32,86)		RS1/16S100J
	R 153 (B,34,86)		RS1/16S101J
	R 154 (B,30,81)		RS1/16S103J
	R 155 (B,32,81)		RS1/16S103J
	R 156 (B,34,81)		RS1/16S103J
	R 157 (B,18,83)		RS1/16S473J
	R 161 (B,14,83)		RS1/16S102J
	R 167 (B,21,87)		RS1/16S0R0J
	R 168 (B,21,79)		RS1/16S0R0J
	R 169 (A,29,65)		RS1/16S0R0J
	R 170 (B,32,66)		RS1/16S0R0J
	R 171 (B,25,70)		RS1/16S100J
	R 172 (B,23,70)		RS1/16S100J
	R 173 (B,21,70)		RS1/16S101J
	R 174 (B,25,65)		RS1/16S103J
	R 175 (B,23,65)		RS1/16S103J
	R 176 (B,21,65)		RS1/16S103J
	R 177 (B,23,61)		RS1/16S473J
	R 181 (B,20,59)		RS1/16S102J
	R 191 (A,18,92)		RS1/10S0R0J
	R 192 (A,18,90)		RS1/10S0R0J
	R 193 (A,20,48)		RS1/10S0R0J
	R 194 (A,20,45)		RS1/10S0R0J
	R 201 (A,85,28)		RS1/16S470J
	R 202 (A,83,28)		RS1/16S470J
	R 204 (A,81,28)	RESISTOR ARRAY	RAB4CQ470J
	R 205 (A,78,28)	RESISTOR ARRAY	RAB4CQ470J

Mark	No.	Description	Part No.
R	206 (A,97,25)		RS1/16S100J
R	207 (A,93,28)		RS1/16S470J
R	208 (A,89,28)		RS1/16S470J
R	209 (A,86,25)		RS1/16S470J
R	210 (A,97,21)		RS1/16S0R0J
R	301 (A,55,42)		RS1/16S100J
R	302 (A,46,42)		RS1/16S101J
R	303 (A,44,42)		RS1/16S471J
R	304 (A,41,42)	CHIP RESISTOR	RS1/16S6800F
R	305 (A,39,43)		RS1/16S180J
R	307 (B,40,33)		RS1/16S100J
R	308 (B,42,33)		RS1/16S100J
R	309 (B,40,29)		RS1/16S100J
R	310 (B,43,24)		RS1/16S100J
R	311 (A,41,20)		RS1/16S472J
R	313 (A,53,17)		RS1/16S102J
R	314 (A,49,16)		RS1/16S472J
R	315 (B,58,33)		RS1/16S150J
R	331 (A,61,42)	RESISTOR ARRAY	RAB4CQ473J
R	332 (B,60,33)		RS1/16S473J
R	333 (A,64,37)	RESISTOR ARRAY	RAB4CQ473J
R	334 (A,64,29)	RESISTOR ARRAY	RAB4CQ473J
R	335 (A,64,26)	RESISTOR ARRAY	RAB4CQ473J
R	336 (A,56,18)	RESISTOR ARRAY	RAB4CQ473J
R	337 (A,50,18)	RESISTOR ARRAY	RAB4CQ473J
R	338 (A,47,18)	RESISTOR ARRAY	RAB4CQ473J
R	351 (A,28,48)		RS1/16S472J
R	352 (A,28,43)		RS1/16S472J
R	353 (A,26,46)		RS1/16S272J
R	354 (A,30,46)		RS1/16S272J
R	357 (A,32,46)		RS1/16S0R0J
R	358 (A,36,46)		RS1/16S0R0J
R	386 (B,18,38)		RS1/16S473J
R	391 (B,20,29)		RS1/10S0R0J
R	392 (B,23,29)		RS1/10S0R0J
R	401 (B,135,51)		RS1/16S100J
R	402 (A,136,42)		RS1/16S470J
R	403 (B,137,51)		RS1/16S470J
R	404 (A,138,42)		RS1/16S470J
R	405 (A,139,42)		RS1/16S470J
R	412 (B,152,65)		RS1/16S471J
R	413 (A,157,74)		RS1/16S132J
R	414 (A,157,71)		RS1/16S391J
R	415 (A,154,74)		RS1/16S151J
R	416 (A,154,71)		RS1/16S100J
R	417 (B,147,71)		RS1/16S103J
R	418 (B,145,71)		RS1/16S272J
R	419 (B,143,71)		RS1/16S272J
R	421 (B,157,74)		RS1/10S0R0J
R	422 (A,157,76)		RS1/10S0R0J
R	424 (B,132,73)		RS1/16S103J
R	425 (A,135,74)		RS1/16S330J
R	426 (A,133,74)		RS1/16S330J
R	428 (A,123,59)	RESISTOR ARRAY	RAB4CQ220J
R	429 (A,123,55)	RESISTOR ARRAY	RAB4CQ220J
R	432 (A,120,49)		RAB4CQ330J
R	433 (A,122,46)		RAB4CQ330J
R	434 (A,128,41)	RESISTOR ARRAY	RAB4CQ220J
R	435 (A,132,41)	RESISTOR ARRAY	RAB4CQ220J
R	437 (A,138,38)	RESISTOR ARRAY	RAB4CQ473J

Mark	No.	Description	Part No.
R	438 (B,95,53)		RS1/16S473J
R	440 (A,132,38)	RESISTOR ARRAY	RAB4CQ473J
R	441 (A,128,38)	RESISTOR ARRAY	RAB4CQ473J
R	442 (A,119,43)	RESISTOR ARRAY	RAB4CQ473J
R	443 (A,117,53)	RESISTOR ARRAY	RAB4CQ473J
R	444 (B,124,51)		RS1/16S473J
R	445 (B,124,55)		RS1/16S473J
R	446 (A,119,55)	RESISTOR ARRAY	RAB4CQ473J
R	447 (A,119,59)	RESISTOR ARRAY	RAB4CQ473J
R	448 (A,124,37)		RS1/16S473J
R	449 (A,124,39)		RS1/16S473J
R	451 (A,74,72)	RESISTOR ARRAY	RAB4CQ680J
R	453 (A,74,63)		RAB4CQ330J
R	454 (A,74,66)		RAB4CQ330J
R	455 (A,74,54)		RAB4CQ330J
R	456 (A,74,57)		RAB4CQ330J
R	457 (A,74,44)		RAB4CQ330J
R	458 (A,74,47)		RAB4CQ330J
R	460 (A,78,79)		RS1/16S330J
R	461 (A,163,62)		RS1/16S105J
R	462 (A,160,62)		RS1/16S102J
R	463 (A,159,65)		RS1/16S101J
R	501 (B,124,40)		RS1/16S101J
R	502 (B,124,46)		RS1/16S101J
R	504 (B,128,28)		RS1/16S102J
R	505 (B,122,32)		RS1/16S221J
R	508 (B,126,23)		RS1/16S101J
R	514 (B,110,22)		RS1/16S101J
R	517 (B,106,19)		RS1/16S100J
R	518 (B,104,19)		RS1/16S100J
R	519 (B,88,18)		RS1/16S100J
R	520 (B,82,23)		RS1/16S100J
R	521 (B,92,22)		RS1/16S101J
R	523 (B,90,22)		RS1/16S470J
R	524 (B,76,32)		RS1/16S101J
R	525 (B,80,32)		RS1/16S101J
R	526 (B,78,32)		RS1/16S101J
R	527 (B,85,33)		RS1/16S101J
R	530 (B,122,40)		RS1/16S101J
R	541 (B,129,43)		RS1/16S103J
R	542 (B,128,32)		RS1/16S223J
R	543 (B,124,32)		RS1/16S103J
R	544 (B,116,27)		RS1/16S472J
R	545 (B,118,27)		RS1/16S103J
R	546 (B,124,27)		RS1/16S103J
R	548 (B,120,23)		RS1/16S103J
R	549 (B,113,22)		RS1/16S103J
R	550 (A,102,23)		RS1/16S103J
R	551 (A,112,25)		RS1/16S103J
R	553 (A,104,22)		RS1/16S103J
R	555 (B,108,19)		RS1/16S222J
R	556 (B,102,19)		RS1/16S222J
R	557 (B,78,23)		RS1/16S222J
R	558 (B,80,23)		RS1/16S222J
R	559 (B,88,25)		RS1/16S473J
R	560 (B,84,26)		RS1/16S473J
R	562 (B,82,26)		RS1/16S473J
R	563 (B,80,26)		RS1/16S103J
R	564 (B,113,51)		RS1/16S103J
R	565 (B,122,47)		RS1/16S472J

Mark	No.	Description	Part No.
R	566 (B,84,23)		RS1/16S103J
R	571 (A,116,42)		RS1/16S473J
R	572 (A,76,16)		RS1/16S470J
R	573 (A,64,18)		RS1/16S470J
R	574 (A,64,17)		RS1/16S472J
R	575 (A,64,14)		RS1/16S470J
R	576 (A,64,15)		RS1/16S103J
R	577 (A,21,21)		RS1/16S103J
R	584 (A,120,23)		RS1/16S0R0J
R	702 (A,113,54)		RS1/16S103J
R	704 (A,113,55)		RS1/16S103J
R	705 (A,116,57)		RS1/16S103J
R	706 (A,113,58)		RS1/16S103J
R	707 (A,116,59)		RS1/16S470J
R	708 (A,116,60)		RS1/16S470J
R	709 (A,116,63)		RS1/16S1201F
R	710 (A,116,62)		RS1/16S1201F
R	711 (A,97,62)		RS1/16S1201F
R	712 (A,97,64)		RS1/16S1201F
R	713 (B,94,59)		RS1/16S470J
R	714 (B,97,59)		RS1/16S103J
R	716 (A,97,60)		RS1/16S103J
R	718 (A,96,58)		RS1/16S103J
R	719 (A,90,58)		RS1/16S471J
R	721 (A,97,54)		RS1/16S0R0J
R	731 (B,93,66)		RS1/16S1500F
R	732 (B,91,66)		RS1/16S0R0J
R	733 (A,91,74)		RS1/16S102J
R	741 (B,98,66)		RS1/16S1500F
R	742 (B,96,66)		RS1/16S0R0J
R	743 (A,96,74)		RS1/16S102J
R	751 (B,102,66)		RS1/16S1500F
R	752 (B,100,66)		RS1/16S0R0J
R	753 (A,100,74)		RS1/16S102J
R	761 (B,107,66)		RS1/16S1500F
R	762 (B,105,66)		RS1/16S3R3J
R	763 (A,105,74)		RS1/16S102J
R	771 (B,111,66)		RS1/16S1500F
R	772 (B,109,66)		RS1/16S3R3J
R	773 (A,109,74)		RS1/16S102J
R	781 (B,116,66)		RS1/16S1500F
R	782 (B,114,66)		RS1/16S3R3J
R	783 (A,114,74)		RS1/16S102J
R	901 (A,148,19)		RS1/16S330J
R	902 (A,147,29)		RS1/16S2402F
R	903 (B,148,26)		RS1/16S3002F
R	904 (B,146,26)		RS1/16S0R0J
R	905 (A,147,31)		RS1/16S561J
R	906 (A,147,28)		RS1/16S222J
R	907 (B,142,26)		RS1/16S1802F
R	908 (B,144,26)		RS1/16S0R0J
R	910 (B,135,15)		RS1/10S0R0J
R	918 (A,142,28)		RS1/16S682J
R	919 (A,142,24)		RS1/16S103J
R	920 (A,136,32)		RS1/16S103J
R	921 (A,132,24)		RS1/16S0R0J
R	931 (B,74,24)		RS1/16S101J
R	1002(A,69,22)		RS1/10S100J
R	1101(B,88,73)		RS1/10S0R0J
R	1102(B,86,73)		RS1/10S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	101 (B,67,71)	CHIP CERAMIC C.	DCH1165
C	102 (A,66,51)	CHIP CERAMIC C.	DCH1165
C	103 (A,41,80)		DCH1201
C	104 (A,38,50)		DCH1201
C	105 (A,61,79)		CKSRYB105K16
C	106 (A,57,79)		CKSRYB104K16
C	107 (A,53,79)		CKSRYB104K16
C	108 (A,50,79)		CKSRYB104K16
C	109 (B,49,66)		CKSRYB103K50
C	110 (A,46,79)		CKSRYB104K16
C	111 (B,49,71)		CKSRYB103K50
C	112 (A,64,51)		CKSRYB105K16
C	113 (A,41,78)		CKSRYB105K16
C	114 (B,43,71)		CKSRYB104K16
C	115 (B,46,69)		CKSRYB104K16
C	116 (B,43,67)		CKSRYB104K16
C	117 (B,46,65)		CKSRYB105K16
C	118 (B,43,62)		CKSRYB104K16
C	119 (B,46,60)		CKSRYB104K16
C	120 (B,43,58)		CKSRYB104K16
C	121 (B,43,54)		CKSRYB105K16
C	122 (A,42,51)		CKSRYB105K16
C	123 (A,47,51)		CKSRYB104K16
C	124 (A,52,51)		CKSRYB104K16
C	125 (A,53,51)		CKSRYB104K16
C	126 (A,55,51)		CKSRYB104K16
C	127 (B,53,46)		CCSRCH120J50
C	128 (B,60,46)		CCSRCH100D50
C	129 (B,50,61)		CKSRYB105K16
C	130 (B,56,61)		CKSRYB105K16
C	131 (B,63,46)		CKSRYB103K50
C	132 (A,61,51)		CKSRYB104K16
C	133 (A,62,51)		CKSRYB105K16
C	134 (A,67,58)		CKSRYB104K16
C	135 (A,67,62)		CKSRYB104K16
C	136 (A,67,63)		CKSRYB104K16
C	137 (A,67,68)		CKSRYB104K16
C	138 (A,67,72)		CKSRYB104K16
C	139 (A,67,75)		CKSRYB104K16
C	151 (A,34,82)		CKSRYB104K16
C	152 (A,24,86)		CKSRYB104K16
C	153 (A,39,85)		DCH1201
C	171 (A,17,68)		CKSRYB104K16
C	172 (A,24,70)		CKSRYB104K16
C	173 (A,30,61)		DCH1201
C	201 (A,86,35)		CKSRYB104K16
C	202 (A,88,20)		CKSRYB104K16
C	301 (A,44,15)	CHIP CERAMIC C.	DCH1165
C	302 (A,66,45)	CHIP CERAMIC C.	DCH1165
C	303 (A,40,26)		DCH1201
C	304 (A,39,39)		DCH1201
C	305 (A,34,39)		DCH1201
C	306 (A,52,42)		CKSRYB104K16
C	307 (A,50,42)		CKSRYB105K16
C	308 (A,43,42)		CKSRYB103K50
C	309 (A,40,45)		CKSRYB104K16
C	310 (A,41,39)		CKSRYB105K16

Mark	No.	Description	Part No.
C	311 (B,47,34)		CKSRYB104K16
C	312 (B,44,32)		CKSRYB105K16
C	313 (B,47,29)		CKSRYB104K16
C	314 (A,45,20)		CKSRYB105K16
C	315 (A,52,20)		CKSRYB104K16
C	316 (A,54,20)		CKSRYB104K16
C	317 (A,62,24)		CKSRYB105K16
C	318 (A,61,31)		CKSRYB104K16
C	319 (A,61,37)		CKSRYB105K16
C	351 (B,21,38)		CKSRYB104K16
C	401 (A,121,78)		CEVW101M16
C	402 (A,143,36)		CEVW101M16
C	403 (A,135,42)		CKSRYB104K16
C	404 (A,141,42)		CKSRYB105K16
C	405 (A,146,42)		CKSRYB104K16
C	406 (A,147,42)		CKSRYB104K16
C	407 (A,155,48)		CKSRYB104K16
C	408 (A,155,53)		CKSRYB104K16
C	409 (A,155,55)		CKSRYB104K16
C	410 (A,155,62)		CKSRYB104K16
C	411 (A,155,64)		CKSRYB104K16
C	412 (B,154,65)		CKSRYB103K50
C	413 (A,159,74)	CHIP CAPACITOR	CKSRYB823K25
C	414 (A,159,70)		CKSRYB103K50
C	415 (A,156,74)		CKSRYB824K10
C	416 (A,156,70)		CKSRYB393K16
C	417 (A,151,76)		DCH1201
C	418 (A,155,66)		CKSRYB104K16
C	421 (A,149,74)		CKSRYB102K50
C	422 (A,148,74)		CKSRYB104K16
C	423 (A,146,74)		CKSRYB104K16
C	424 (A,145,74)		CKSRYB104K16
C	425 (A,140,74)		CKSRYB104K16
C	426 (A,138,74)		CKSRYB104K16
C	427 (A,137,74)		CKSRYB104K16
C	428 (A,143,74)		CKSRYB104K16
C	429 (A,141,78)		CKSRYB104K16
C	430 (A,141,82)		CEVW100M16
C	431 (A,146,78)		CKSRYB104K16
C	432 (A,146,82)		CEVW100M16
C	433 (A,137,79)		CKSRYB105K16
C	434 (A,131,81)		CEVW101M16
C	435 (B,140,61)		CKSRYB103K50
C	436 (B,140,65)		CKSRYB103K50
C	437 (B,142,61)		CKSRYB104K16
C	438 (B,142,65)		CKSRYB104K16
C	439 (B,144,61)		DCH1201
C	440 (B,144,65)		DCH1201
C	441 (B,147,56)		CKSRYB104K16
C	442 (B,147,61)		CKSRYB104K16
C	443 (B,147,65)		CKSRYB104K16
C	445 (A,123,66)		CKSRYB104K16
C	446 (A,123,63)		CKSRYB104K16
C	447 (A,123,57)		CKSRYB104K16
C	448 (A,123,49)		CKSRYB104K16
C	449 (A,124,46)		CKSRYB104K16
C	451 (A,79,69)		CKSRYB104K16
C	452 (A,79,59)		CKSRYB104K16
C	453 (A,79,50)		CKSRYB104K16
C	454 (A,77,40)		CKSRYB104K16

Mark	No.	Description	Part No.
C	455 (A,79,82)		CKSRYB104K16
C	461 (A,162,70)		CKSRYB104K16
C	462 (A,164,61)		CCSRCH100D50
C	463 (A,159,61)		CCSRCH120J50
C	501 (A,129,30)		CEVW101M16
C	502 (B,113,27)		CKSRYB104K16
C	503 (B,94,45)		CKSRYB104K16
C	504 (B,119,44)		CKSRYB104K16
C	505 (B,120,32)		CKSRYB103K50
C	511 (A,91,40)		CKSRYB104K16
C	512 (A,116,39)		CKSRYB105K16
C	513 (A,70,12)		CKSRYB104K16
C	514 (A,21,18)		CKSRYB104K16
C	701 (A,92,52)		CEVW101M16
C	702 (A,99,51)		CKSRYB104K16
C	703 (A,110,51)		CKSRYB104K16
C	704 (A,113,60)		CKSRYB104K16
C	705 (A,116,65)		CKSRYB104K16
C	706 (B,108,59)		CKSRYB104K16
C	707 (B,106,59)		CKSRYB104K16
C	708 (B,104,59)		CKSRYB104K16
C	709 (B,99,60)		CKSRYB104K16
C	710 (B,102,59)		CKSRYB105K16
C	711 (A,88,64)		CEVW101M16
C	712 (A,97,65)		CKSRYB104K16
C	713 (A,93,58)		CKSRYB103K50
C	714 (A,95,57)		CKSRYB104K16
C	731 (A,91,72)		CKSRYB104K16
C	741 (A,96,72)		CKSRYB104K16
C	751 (A,100,72)		CKSRYB104K16
C	761 (A,105,72)		CKSRYB104K16
C	771 (A,109,72)		CKSRYB104K16
C	781 (A,114,72)		CKSRYB104K16
C	901 (A,74,21)		CKSRYB105K16
C	902 (A,75,24)		CKSQYB225K10
C	903 (A,137,12)		DCH1201
C	905 (A,144,21)		DCH1201
C	906 (A,150,21)		CKSRYB105K16
C	907 (A,145,30)		CCSRCH821J50
C	909 (A,145,27)		CKSRYB472K50
C	910 (A,143,24)		CKSRYB103K50
C	911 (B,149,19)		DCH1201
C	912 (A,159,19)		DCH1201
C	913 (A,159,21)		DCH1201
C	915 (A,140,24)		CKSRYB104K16
C	921 (B,135,20)		CKSRYB105K16
C	922 (B,129,22)		CKSQYB225K10
C	923 (B,162,37)		CKSRYB105K16
C	924 (B,158,38)	CHIP CERAMIC C.	DCG1028
C	925 (B,84,16)		CKSRYB105K16
C	926 (B,76,11)		CKSRYB103K50
C	927 (B,77,16)		CKSQYB225K10
C	928 (A,161,34)		CKSRYB105K16
C	929 (A,163,44)		CKSQYB225K10
C	1001(B,132,15)		CKSRYB104K16
C	1002(A,131,13)		CEVW101M16
C	1025(A,80,16)		CKSRYB104K16
C	1026(A,80,17)		CKSRYB102K50
C	1028(B,124,12)		CKSRYB104K16
C	1029(B,126,12)		CKSRYB102K50

Mark	No.	Description	Part No.
	C 1030(B,123,19)		CCSRCH101J50
	C 1031(A,80,14)		CCSRCH101J50

AL USB ASSY(VSX-LX50 ONLY)

MISCELLANEOUS

Mark	No.	Description	Part No.
	IC 701 (A,35,38)	USB MEDIA CONTROL IC	TCC8600-00X-EA-UG
⚠	IC 702 (A,63,28)	IC	NJM2872BF18
⚠	IC 703 (A,84,25)	IC	NJM2886DL3-33
	IC 741 (A,64,16)	IC	TC7SZ125FU
	IC 761 (A,67,47)	SD-RAM(64M)	HY57V641620ETP-H
	IC 762 (A,90,42)	FLASH ROM	AYW7146
	IC 771 (A,67,22)	LOAD SWITCHING	AAT4618IGV-0.5-1
	IC 951 (A,59,17)	L-MOS AND GATE	TC7SET08FUS1
	Q 771 (A,33,24)	DIGITAL TRANSISTOR	DTC143EUA
	L 701 (A,41,54)	INDUCTOR	LCTC100K1608
	L 702 (A,46,53)	CHIP SOLID INDUCTOR	QTL1013
	L 703 (A,23,54)	CHIP SOLID INDUCTOR	QTL1013
	L 704 (A,21,29)	CHIP SOLID INDUCTOR	QTL1013
	L 731 (A,43,59)	CHIP FERRITE BEADS	VTL1169
	L 733 (A,36,54)	COIL	VTH1043
	L 741 (A,63,19)	CHIP SOLID INDUCTOR	QTL1013
	L 761 (A,74,38)	CHIP SOLID INDUCTOR	QTL1013
	L 762 (A,90,57)	CHIP SOLID INDUCTOR	QTL1013
	L 763 (A,47,16)	CHIP SOLID INDUCTOR	QTL1013
	L 952 (A,57,14)	CHIP SOLID INDUCTOR	QTL1013
	X 702 (A,49,46)	CRYSTAL OSCILLATOR	CSS1614
	CN701 (A,39,60)	PLUG(4P)	KM200NA4
	CN702 (A,87,16)	11P SOCKET	XKP3076

RESISTORS

Mark	No.	Description	Part No.
	R 702 (A,48,39)		RS1/16SS101J
	R 703 (A,50,40)		RS1/16SS101J
	R 704 (A,42,46)		RS1/16SS472J
	R 705 (A,25,37)		RS1/16SS472J
	R 707 (A,36,49)		RS1/16SS473J
	R 708 (A,40,53)		RS1/16SS101J
	R 709 (A,41,47)		RS1/16SS103J
	R 710 (A,50,39)		RS1/16SS101J
	R 711 (A,48,37)		RS1/16SS101J
	R 712 (A,29,48)		RS1/16SS101J
	R 713 (A,30,49)		RS1/16SS101J
	R 714 (A,31,48)		RS1/16SS101J
	R 717 (A,22,30)		RS1/16SS101J
	R 718 (A,23,30)		RS1/16SS101J
	R 719 (A,26,47)		RS1/16SS101J
	R 720 (A,27,49)		RS1/16SS101J
	R 724 (A,31,51)		RS1/16SS472J
	R 725 (A,33,53)		RS1/16SS472J
	R 726 (A,34,54)		RS1/16SS472J
	R 727 (A,25,41)		RS1/16SS220J
	R 728 (A,32,49)		RS1/16SS101J
	R 729 (A,51,37)		RS1/16SS101J
	R 732 (A,30,60)		RS1/16S0R0J
	R 734 (A,30,61)		RS1/16S0R0J
	R 735 (A,38,52)		RS1/16SS153J
	R 736 (A,34,51)		RS1/16SS153J
	R 737 (A,37,51)		RS1/16SS100J
	R 738 (A,35,51)		RS1/16SS100J
	R 739 (A,86,20)		RS1/16SS221J
	R 740 (A,33,50)		RS1/16SS101J
	R 741 (A,66,19)		RS1/16SS560J
	R 742 (A,77,23)		RS1/16SS101J
	R 743 (A,75,23)		RS1/16SS101J
	R 744 (A,73,23)		RS1/16SS101J
	R 745 (A,88,19)		RS1/16SS472J
	R 747 (A,45,41)		RS1/16S225J
	R 748 (A,46,45)		RS1/16SS470J
	R 752 (A,41,19)		RS1/16SS103J
	R 756 (A,36,15)		RS1/16SS103J
	R 763 (A,88,58)		RS1/16SS473J
	R 771 (A,71,20)		RS1/16SS101J
	R 772 (A,71,21)		RS1/16SS104J
	R 951 (A,40,57)		RS1/16SS182J
	R 952 (A,38,55)		RS1/16SS332J
	R 953 (A,25,28)		RS1/16SS182J
	R 954 (A,25,29)		RS1/16SS332J
	R 955 (A,56,22)		RS1/16SS182J
	R 956 (A,26,49)		RS1/16SS332J
	R 958 (A,60,20)		RS1/16SS101J

CAPACITORS

Mark	No.	Description	Part No.
	C 701 (A,29,28)		CKSSYB104K10
	C 702 (A,30,28)		CKSSYB471K50
	C 703 (A,32,28)		CKSSYB104K10
	C 704 (A,33,28)		CKSSYB471K50
	C 705 (A,36,27)		CKSSYB104K10
	C 706 (A,37,27)		CKSSYB471K50
	C 707 (A,40,27)		CKSSYB104K10
	C 708 (A,39,27)		CKSSYB471K50
	C 709 (A,43,47)		CKSSYB104K10
	C 710 (A,43,48)		CKSSYB471K50
	C 711 (A,42,50)		CKSSYB104K10
	C 712 (A,44,50)		CKSSYB471K50
	C 713 (A,38,49)		CCSRCH331J50
	C 714 (A,42,52)		CKSQYB225K10
	C 715 (A,41,49)		CKSRYB122K50
	C 716 (A,47,36)		CKSSYB104K10
	C 717 (A,47,32)		CKSSYB104K10
	C 718 (A,47,33)		CKSSYB471K50
	C 719 (A,25,45)		CKSSYB471K50
	C 720 (A,26,45)		CKSSYB104K10
	C 721 (A,24,47)		CEJQ101M6R3
	C 723 (A,23,33)		CKSSYB471K50
	C 724 (A,24,34)		CKSSYB104K10
	C 726 (A,21,41)		CKSSYB104K10
	C 727 (A,26,39)		CKSSYB471K50
	C 728 (A,24,39)		CKSSYB104K10
	C 729 (A,25,35)		CKSSYB471K50
	C 730 (A,65,27)		CKSSYB103K16
	C 731 (A,27,54)		CEJQ101M16
	C 732 (A,34,56)		CKSRYB104K16
	C 733 (A,43,57)		CKSRYB104K16
	C 734 (A,48,36)		CKSSYB471K50
	C 735 (A,23,44)		CKSSYB103K16
	C 736 (A,26,30)		CKSSYB471K50
	C 739 (A,46,50)		CCSRCH100D50
	C 740 (A,46,47)		CCSRCH471J50
	C 741 (A,92,19)		CEJQ101M16

Mark	No.	Description	Part No.
C	742 (A,92,24)		CKSRYB104K16
C	743 (A,93,27)		CKSQYB225K10
C	744 (A,97,26)		CEJQ470M10
C	745 (A,65,31)		CKSQYB105K16
C	746 (A,67,28)		CKSQYB475K6R3
C	747 (A,34,48)		CKSSYB104K10
C	748 (A,33,48)		CKSSYB471K50
C	751 (A,45,17)		CKSSYB104K10
C	752 (A,62,16)		CKSSYB104K10
C	761 (A,76,39)		CKSSYB104K10
C	762 (A,77,39)		CKSSYB471K50
C	763 (A,71,39)		CKSSYB471K50
C	764 (A,67,40)		CKSSYB471K50
C	766 (A,57,40)		CKSSYB471K50
C	767 (A,90,55)		CKSSYB104K10
C	768 (A,90,54)		CKSSYB471K50
C	769 (A,43,55)		CKSRYB104K16
C	771 (A,71,25)		CKSQYB105K16
C	773 (A,64,23)		CKSRYB104K16
C	952 (A,57,17)		CKSRYB104K16

FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service part.