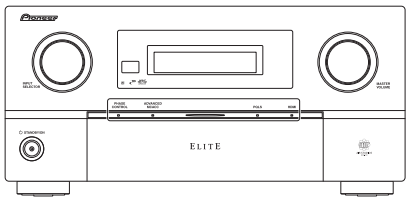
Pioneer

Service Manual



SC-27

ORDER NO.
RRV3932

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

SC-27
SC-25
SC-9540

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

Model	Type	Power Requirement	Remarks
SC-27	CUXJCA	AC 120 V	
SC-25	CUXJCA	AC 120 V	
SC-9540	CUXJCA	AC 120 V	

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

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

T-ZZV JUNE 2009 Printed in Japan

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.

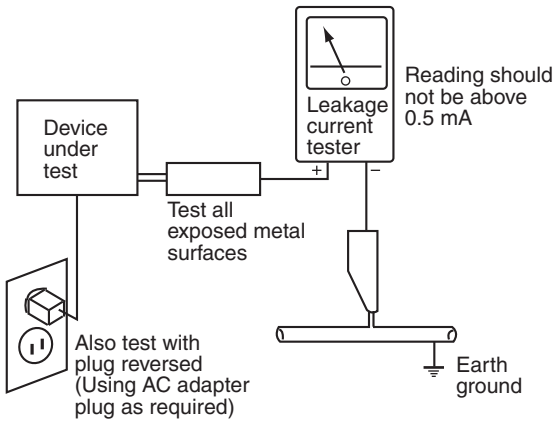
(FOR USA MODEL ONLY)

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.

1.2 NOTES ON REPLACING PARTS

The part listed below is difficult to replace as a discrete component part.
When the part listed in the table is defective, replace whole Assy.

ASSY NAME	PCB ASSY Part No.	Parts that is Difficult to Replace			
		Ref No.	FUNCTION	Part No.	Remarks
DIGITAL MAIN ASSY	AWX9463	IC800	EMMA2RL2	UPD61283F1-407LU2A	BGA
		IC1501	HDMI Receiver	SII9233ACTU	IC with heat-pad

1.3 CAUTION

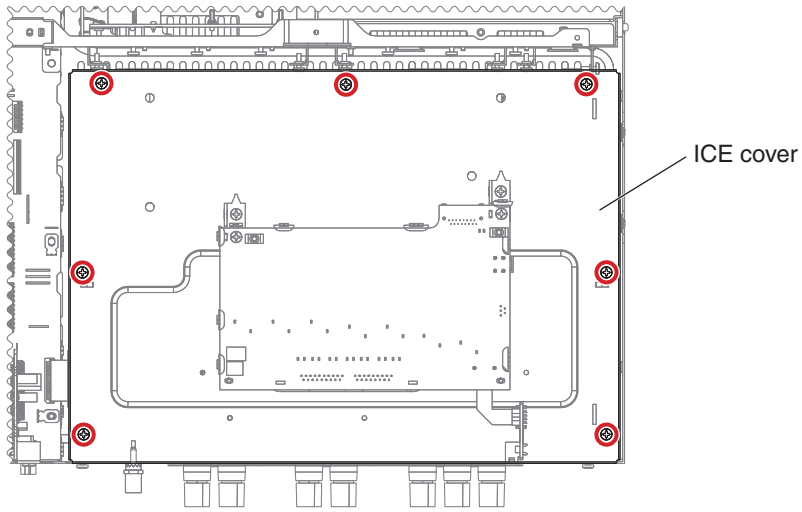
- **Discharging**
  Before starting the diagnosis, wait for three minutes until the electricity of the unit is discharged.

- **Ground Points**
  Please refer to page 60, “Ground Points”.

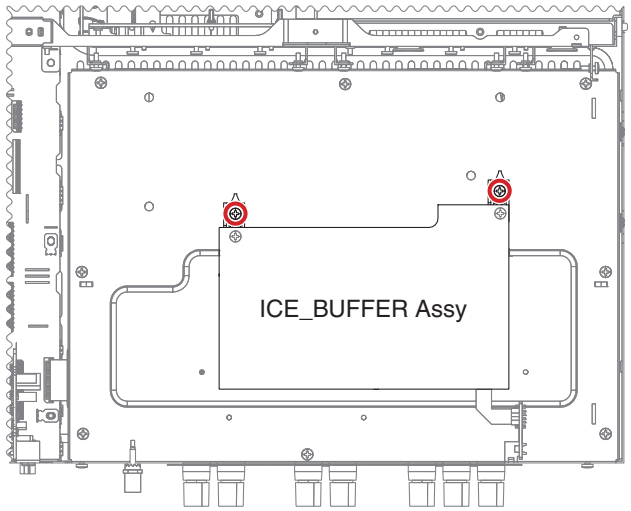
1.4 NOTES ON ASSEMBLING

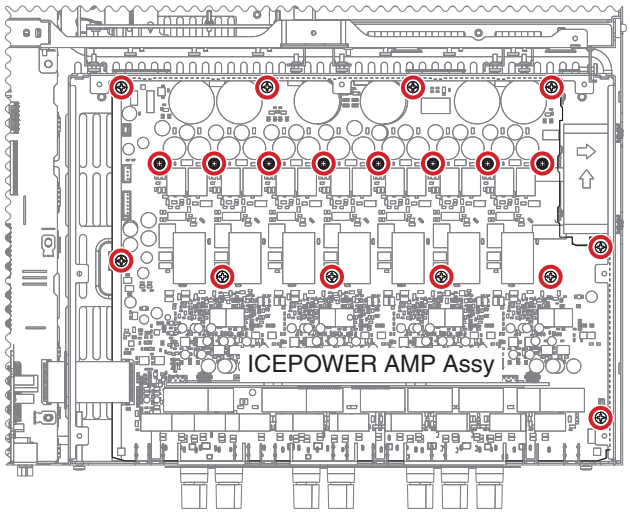
When assembling the ICE amplifier block, please note the following points of screws to prevent from short-circuit.

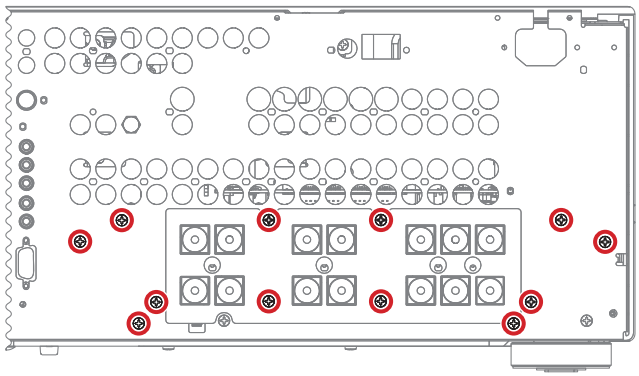
The following 7 points of screws must always be used AMZ30P060FTC



Points to be watched for swarf



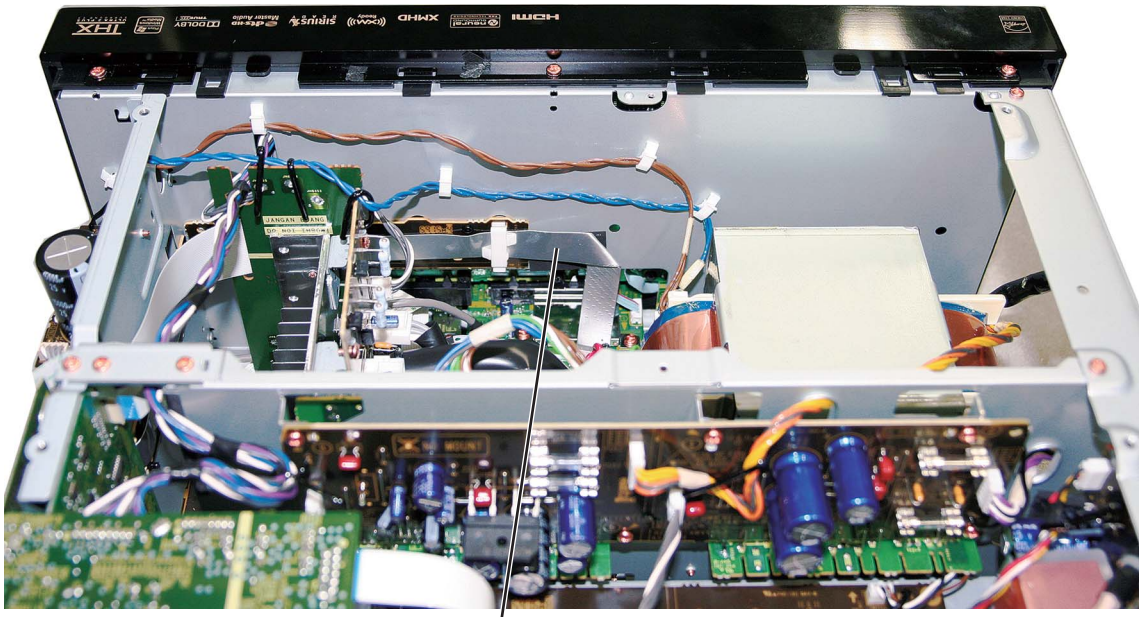




If a screw at any of these points needs to be removed for service,
be sure to check that the swarf is not on the screw before refastening.

1.5 NOTES ON BENDING SHIELD FFC

When styling the Shield FFC (ADD7713: FRONT-HDMI CN3554 <-> DIGITAL MAIN CN1601,) be sure to bend it only once.
NEVER bend an FFC at a point where it has previously been bent in the opposite direction.



Shield FFC (ADD7713)

2. SPECIFICATIONS
2.1 SPECIFICATIONS

Amplifier section

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

Multi channel simultaneous power output(1 kHz, 1 %, 8 Ω)
7 ch total . . . . . 770 W (SC-27)/700 W (SC-25/SC-9540)
Continuous Power Output (20 Hz to 20 kHz, 8 Ω, 0.09 %)
Front . . . . . 140 W + 140 W
Center . . . . . 140 W
Surround . . . . . 140 W + 140 W
Surround back. . . . . 140 W + 140 W
Continuous Power Output (1 kHz, 6 Ω, 1.0 %)
Front . . . . . 180 W + 180 W
Center . . . . . 180 W
Surround . . . . . 180 W + 180 W
Surround back. . . . . 180 W + 180 W
Total harmonic distortion . . . . . 0.05 %
(20 Hz to 20 kHz, 130 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)
PHONO MM . . . . . 4.2 mV/47 kΩ
LINE. . . . . 335 mV/47 kΩ
Output (Level/Impedance)
REC. . . . . 335 mV/2.2 kΩ
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

Tuner Section

Frequency Range (FM) . . . . . 87.5 MHz to 108 MHz
Antenna Input (FM) . . . . . 75 Ω unbalanced
Frequency Range (AM) . . . . . 530 kHz to 1700 kHz
Antenna (AM). . . . . Loop antenna (balanced)

Video Section

Signal level
Composite/S-Video . . . . . 1 Vp-p (75 Ω)
Component Video . . . . . Y: 1.0 Vp-p (75 Ω),
PB, PR: 0.7 Vp-p (75 Ω)
Corresponding maximum resolution
Component Video 1080p (1125p)
(Video convert off)

Digital In/Out Section

HDMI terminal . . . . . 19-pin (Not DVI)
HDMI output type. . . . . 5 V, 100 mA
USB terminal . . . . . USB2.0 Full Speed (Type A)
iPod terminal . . . . . USB, and Video (Composite)
SIRIUS antenna cable . . . . . 8-pin mini DIN cable

Network Section

LAN terminal . . . . . 10 BASE-T/100 BASE-TX

Integrated control section

Control (SR) terminal . . . . . Ø 3.5 Mini-jack (MONO)
Control (IR) terminal. . . . . Ø 3.5 Mini-jack (MONO)
IR signal . . . . . High Active (High Level: 2.0 V)
12 V Trigger terminal . . . . . Ø 3.5 Mini-jack (MONO)
12 V Trigger output type. . . . . 12 V, Total 50 mA
RS-232C cable type. . . . 9-pin, cross type, female-female

Miscellaneous

Power requirements . . . . . AC 120 V, 60 Hz
Power consumption . . . . . 330 W
In standby . . . . . 0.4 W (KURO LINK OFF)
0.6 W (KURO LINK ON)
Dimensions . . . 420 (W) mm x 200 (H) mm x 460 (D) mm
(16 9/16 (W) in. x 7 7/8 (H) in. x 18 1/8 (D) in.)
Weight (without package). . . . . 18.5 kg (40.8 lb)

Furnished Parts Number

MCACC Setup microphone (APM7009) 1
Remote control unit
(SC-27: AXD7539/SC-25/SC-9540: AXD7542)
. 1
AA/IEC R6 dry cell batteries 2
iPod cable (ADE7129) 1
AM loop antenna. 1
FM wire antenna. 1
Power cord (ADG7111) 1
Warranty card 1
Operating instructions

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

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

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio are trademarks of DTS, Inc. © 1996-2008 DTS, Inc. All Rights Reserved.

Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

iPod is a trademark of Apple Inc., registered in the U.S. and other countries. iPhone is a trademark of Apple Inc.

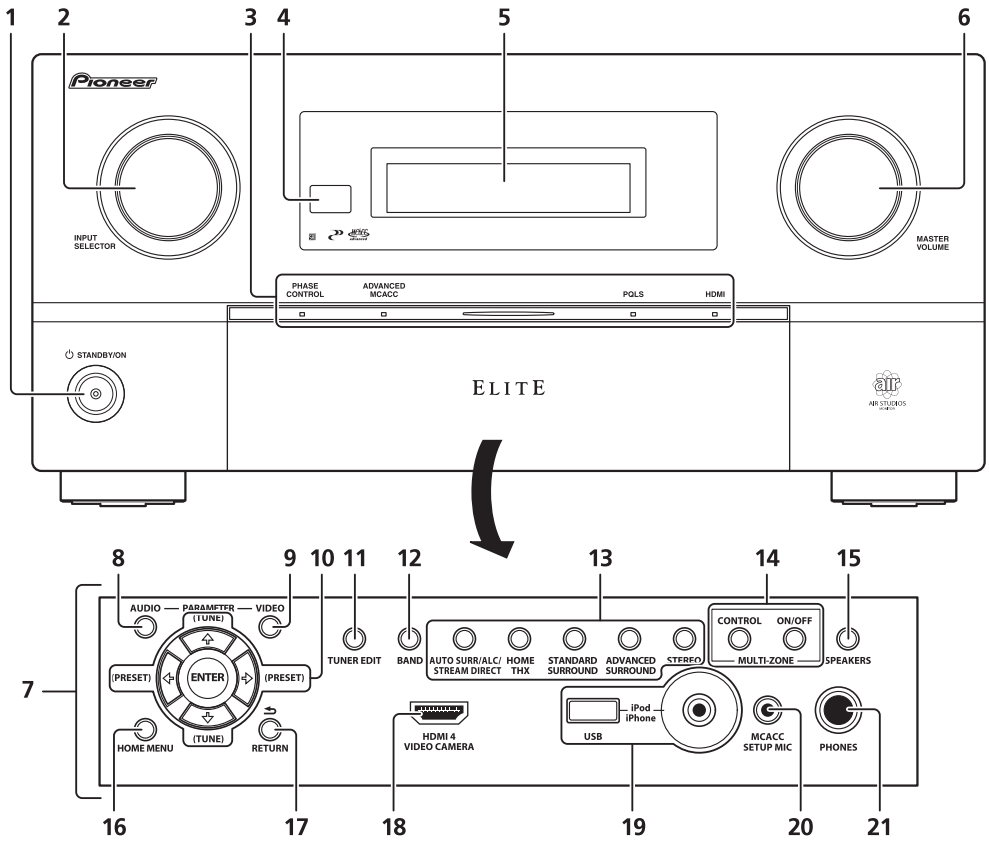
THX, the THX logo, Ultra2 Plus and Select2 Plus are trademarks of THX Ltd. which may be registered in some jurisdictions. All rights reserved.
All other trademarks are the property of their respective owners.

"Neural Surround", "Neural Audio", "Neural" and "NRL" are trademarks and logos owned by Neural Audio Corporation, THX is a trademark of THX Ltd., which may be registered in some jurisdictions. All rights reserved.

SIRIUS, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. and its subsidiaries. All rights reserved. Service not available in Alaska and Hawaii.

2.2 PANEL FACILITIES

[1] Front panel



1 ⏻ STANDBY/ON
Switches the receiver between on and standby. Power indicator lights when the receiver is on.
When the **KURO LINK** function is set to **ON**, the power indicator lights when the power is in standby.

2 INPUT SELECTOR dial
Use to select an input function.

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

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

PQLS indicator – Lights when the PQLS feature is active.

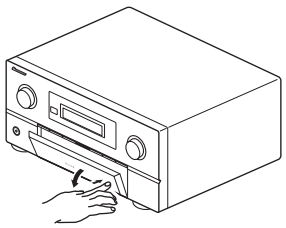
HDMI indicator – Blinks when connecting an HDMI equipped component; lights when the component is connected.

4 Remote sensor
Receives the signals from the remote control.

5 Character display

6 MASTER VOLUME dial

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



8 AUDIO PARAMETER
Use to access the Audio options.

9 VIDEO PARAMETER
Use to access the Video options.

10 ↑/↓/←/→ (TUNE/PRESET) /ENTER
Use the arrow buttons when setting up your **HOME MENU**. Use **TUNE ↑/↓** to find radio frequencies and use **PRESET ←/→** to find preset stations.

11 TUNER EDIT
Use with ⬆/⬇/⬅/➡ **ENTER** to memorize and name stations for recall.

12 BAND
Switches between AM and FM radio bands.

13 Listening mode buttons

AUTO SURR/ALC/STREAM DIRECT – Switches between Auto Surround, Auto level control, Optimum Surround mode and Stream Direct mode.

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

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

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

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

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

15 SPEAKERS
Use to change the speaker system.

16 HOME MENU
Press to access the Home Menu.

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

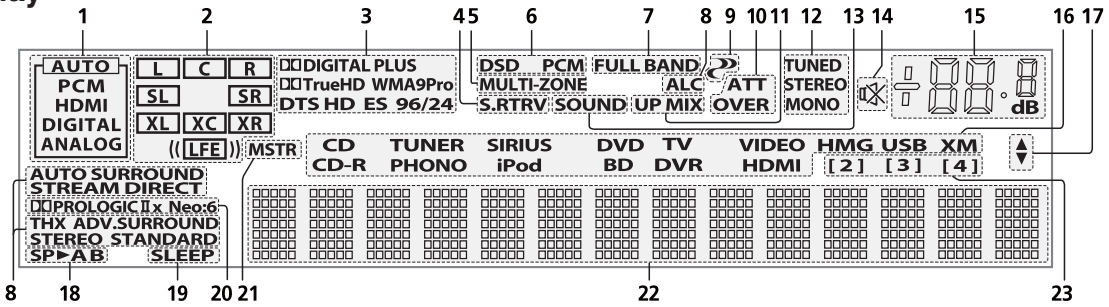
18 HDMI input connector
Use for connection to compatible HDMI device (Video camera, etc.).

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

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

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

[2] Display



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

2 Program format indicators
Light to indicate the channels being input when PCM signals are being input. They do not indicate the audio signals being output from the receiver.

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

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

4 S.RTRV
Lights when the Sound Retriever function is active.

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

6 DSD PCM – Light during DSD (Direct Stream Digital) to PCM conversion with SACDs.
PCM – Lights during playback of PCM signals.

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

8 Listening mode indicators

AUTO SURROUND – Lights when the Auto Surround feature is switched on.

ALC – Lights when the ALC (Auto level control) mode is selected.

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

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

STEREO – Lights when stereo listening is switched on.

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

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

9 (PHASE CONTROL)
Lights when the Phase Control or Full Band Phase Control is switched on.

10 Analog signal indicators
Light to indicate reducing the level of an analog signal.

11 UP MIX
Lights when the Up Mix is switched on.

12 Tuner indicators

TUNED – Lights when a broadcast is being received.

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

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

13 SOUND
Lights when any of the Midnight, Loudness or tone controls feature is selected.
Lights when Dialog Enhancement is switched on.

14
Lights when the sound is muted.

15 Master volume level
Shows the overall volume level.
"**---**" indicates the minimum level, and "**+12dB**" indicates the maximum level.

16 Input function indicators
Light to indicate the input function you have selected.

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

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

19 SLEEP
Lights when the receiver is in sleep mode.

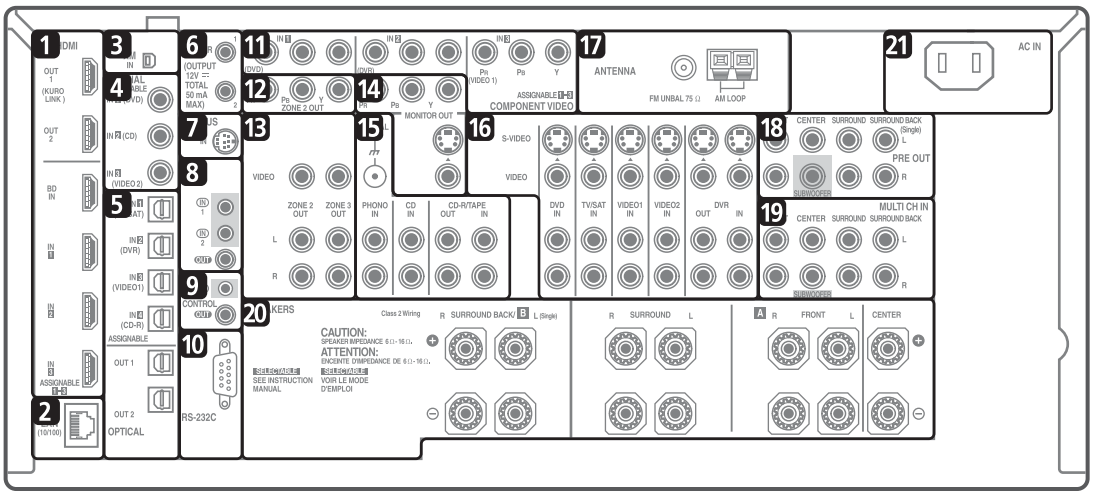
20 Matrix decoding format indicators
PRO LOGIC IIx – This lights to indicate Pro Logic II / Pro Logic IIx decoding.
Neo:6 – When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo:6 processing.

21 MSTR
Lights during playback of DTS-HD Master Audio signal.

22 Character display
Displays various system information.

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

[3] Rear panel



1 HDMI connectors (x6)
Multiple inputs and two outputs for high-quality audio/video connection to compatible HDMI devices.

2 LAN (10/100) terminal

3 XM Radio input

4 Coaxial digital audio inputs (x3 (SC-27), x2 (SC-25/SC-9540))
Use for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

5 Optical digital audio inputs (x4)/outputs (x2)
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.

6 12 V trigger jacks *(total 50 mA max.)* **(x2)**
Use to switch components in your system on and off according to the input function of the receiver.

7 SIRIUS Radio input

8 Remote inputs/output
Use for connection to an external remote control sensor for use in a MULTI-ZONE setup, for example.

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

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

11 Component video inputs (x3)
Use the inputs to connect any video source that has component video output, such as a DVD player.

12 *SC-27 only:* **ZONE 2 component video output**
Use to connect monitors or TVs in a separate room.

13 MULTI-ZONE audio/video outputs
Use to connect a second or third amplifier and monitors or TVs in a separate room.

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

15 Stereo analog audio source inputs (x3)/output (x1)
Use for connection to audio sources such as CD players, tape decks, turntables, etc.

16 Audio/video source inputs (x5)/output (x1)
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.

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

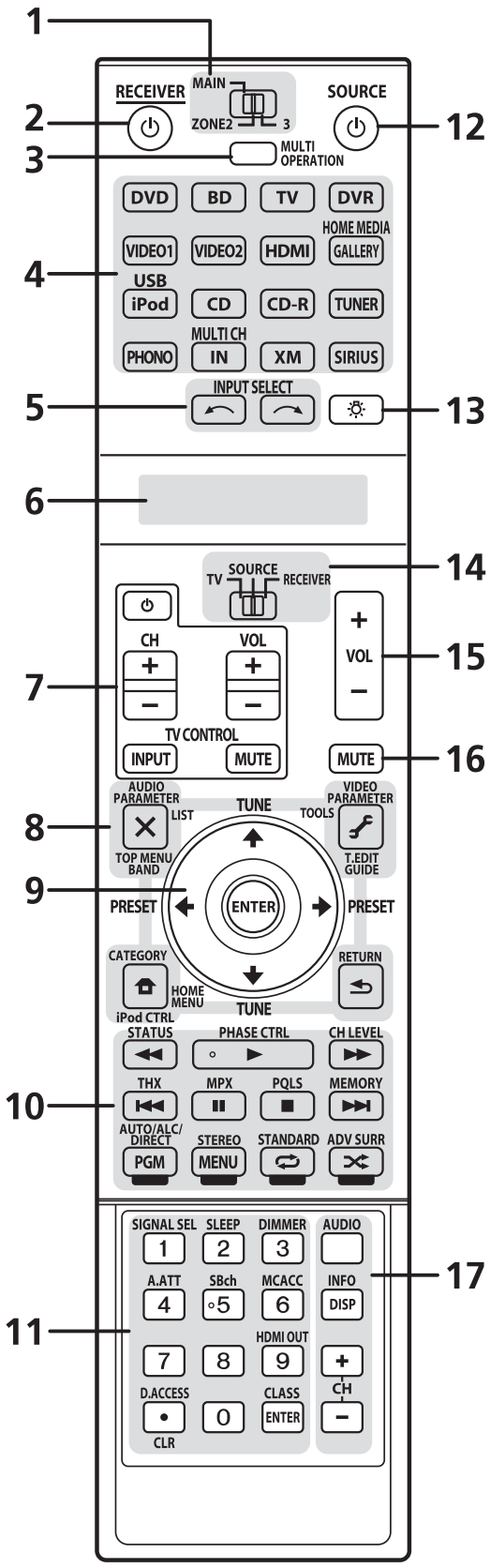
18 Multichannel pre-amplifier outputs
Use to connect separate amplifiers for front, center, surround, surround back and subwoofer channels.

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

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

21 AC power inlet
Connect the supplied power cord here.

[4] Remote control (In case of SC-27)



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

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

1 MULTI-ZONE operation selector switch
Switch to perform operations in the main zone, ZONE 2 and ZONE 3.

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

3 MULTI OPERATION
Use this button to perform multi operations.

4 Input function buttons
Press to select control of other components.

5 INPUT SELECT
Use to select the input function.

6 Character display (LCD)
This display shows information when transmitting control signals.
The following commands are shown when you're setting the remote to control other components:

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

PRESET
LEARNING
MULTI OP
SYS OFF
DIRECT F
RENAME
ERASE
RESET
READ ID
RC MODE

7 TV CONTROL buttons
These buttons are dedicated to control the TV assigned to the **TV** operation selector switch. Thus if you only have one TV to hook up to this system assign it to the **TV** operation selector switch.

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

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

INPUT – Use to select the TV input signal.

CH +/– – Use to select channels.

MUTE – Use to mute the sound or cancel the mute mode.

8 Tuner/component control buttons/HOME MENU
These button controls can be accessed after you have selected the corresponding input function button (**DVD**, **DVR**, **TV**, etc.).

Set the remote control operation selector switch to **RECEIVER** to access the following controls:

AUDIO PARAMETER – Use to access the Audio options.

VIDEO PARAMETER – Use to access the Video options.

HOME MENU – Use to access the Home Menu.

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

9 ↑/↓/←/→ (TUNE/PRESET) /ENTER
Use the arrow buttons when setting up your surround sound system and the Audio or Video options. Also used to control DVD menus/options and for deck 1 of a double cassette deck player.
Use **TUNE↑/↓** to find radio frequencies and use PRESET **PRESET←/→** to find preset stations.

10 Component control buttons
The main buttons (►, ■, etc.) are used to control a component after you have selected it using the input function buttons.
The controls above these buttons can be accessed after you have selected the corresponding input function button (for example **DVD**, **DVR** or **TV**). These buttons also function as described below.

Press **TUNER** first to access:

MPX – Switches between stereo and mono reception of FM broadcasts. If the signal is weak, then switching to mono will improve the sound quality. NOISE CUT MODE 1 to 2 can be selected when receiving AM broadcasts.

Set the remote control operation selector switch to **RECEIVER** first to access:

STATUS – Press to check selected receiver settings.

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

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

PQLS – Press to select PQLS setting.

AUTO/ALC/DIRECT – Switches between Auto Surround, Auto level control, Optimum Surround mode and Stream Direct mode.

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

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.

THX – Press to select a Home THX listening mode.

11 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.
ENTER can be used to enter commands for TV or DTV.
After set the remote control operation switch to **RECEIVER**:

SIGNAL SEL – Use to select an input signal.

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

DIMMER – Dims or brightens the display.

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

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

MCACC – Press to switch between MCACC presets.

HDMI OUT – Switch the HDMI output terminal.

Press **TUNER** first to access:

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

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

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

13 Remote control illumination button
Press to turn on/off the illumination of some of the buttons and the LCD light.[1]

14 Remote control operation selector switch
Set to **RECEIVER** to operate the receiver, **TV** or **SOURCE** to operate the TV or the source device.
When this switch is set to **RECEIVER**, the receiver can be controlled (used to select the white commands above the number buttons (**A.ATT**, etc.)). Also use this switch to set up surround sound.

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

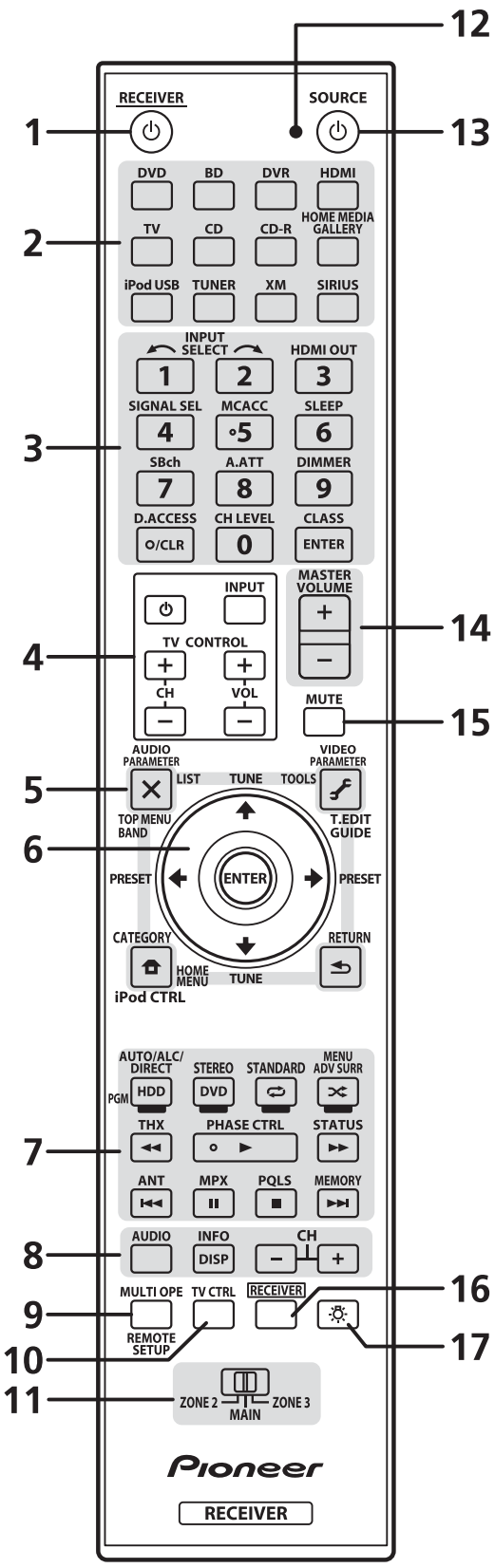
16 MUTE
Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

17 AUDIO – Changes the audio or channel on DVD or BD discs.

DISP – Switches between named station presets and radio frequencies.

CH +/– – Use to select channels for DVD/DVR units.

[4] Remote control (In case of SC-25/SC-9540)



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

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

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

2 Input function buttons
Press to select control of other components.

3 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.

ENTER can be used to enter commands for TV or DTV.

Press **RECEIVER** first to access:

INPUT SELECT – Use to select the input function.

HDMI OUT – Switch the HDMI output terminal.

SIGNAL SEL – Use to select an input signal.

MCACC – Press to switch between MCACC presets.

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

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

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

DIMMER – Dims or brightens the display.

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

Press **TUNER** first to access:

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

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

4 TV CONTROL buttons
These buttons are dedicated to control the TV assigned to the **TV** operation selector switch. Thus if you only have one TV to hook up to this system assign it to the **TV** operation selector switch.

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

INPUT – Use to select the TV input signal.

CH +/– – Use to select channels.

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

5 Tuner/component control buttons/HOME MENU
These button controls can be accessed after you have selected the corresponding input function button (**DVD**, **DVR**, **TV**, etc.).

Press **RECEIVER** first to access:

AUDIO PARAMETER – Use to access the Audio options.

VIDEO PARAMETER – Use to access the Video options.

HOME MENU – Use to access the Home Menu.

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

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

7 Component/Receiver control buttons
The main buttons (▶, ■, etc.) are used to control a component after you have selected it using the input function buttons.
The controls above these buttons can be accessed after you have selected the corresponding input function button (for example **DVD**, **DVR** or **TV**). These buttons also function as described below.

Press **TUNER** first to access:

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

NOISE CUT MODE 1 or **2** can be selected when this unit is receiving AM broadcasts.

Press **RECEIVER** first to access:

AUTO/ALC/DIRECT – Switches between Auto Surround, Auto level control, Optimum Surround mode and Stream Direct mode.

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

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.

THX – Press to select a Home THX listening mode.

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

STATUS – Press to check selected receiver settings.

PQLS – Press to select PQLS setting.

8 AUDIO – Changes the audio or channel on DVD or BD discs.

DISP – Switches between named station presets and radio frequencies.

CH +/– – Use to select channels for DVD/DVR units.

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

10 TV CTRL
Use this button to set preset code of your TV's manufacturer when controlling TV.

11 MULTI-ZONE operation selector switch
Switch to perform operations in the main zone, ZONE 2 and ZONE 3.

12 Remote control LED
Lights when a command is sent from the remote control.

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

14 MASTER VOLUME +/–
Use to set the listening volume.

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

16 RECEIVER
Switches the remote to control the receiver (used to select the white commands above the number buttons (**A.ATT**, etc.)). Also use this button to set up surround sound.

17 ☼
Press to turn on/off the illumination of some of the buttons.

3. BASIC ITEMS FOR SERVICE
3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing

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

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

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

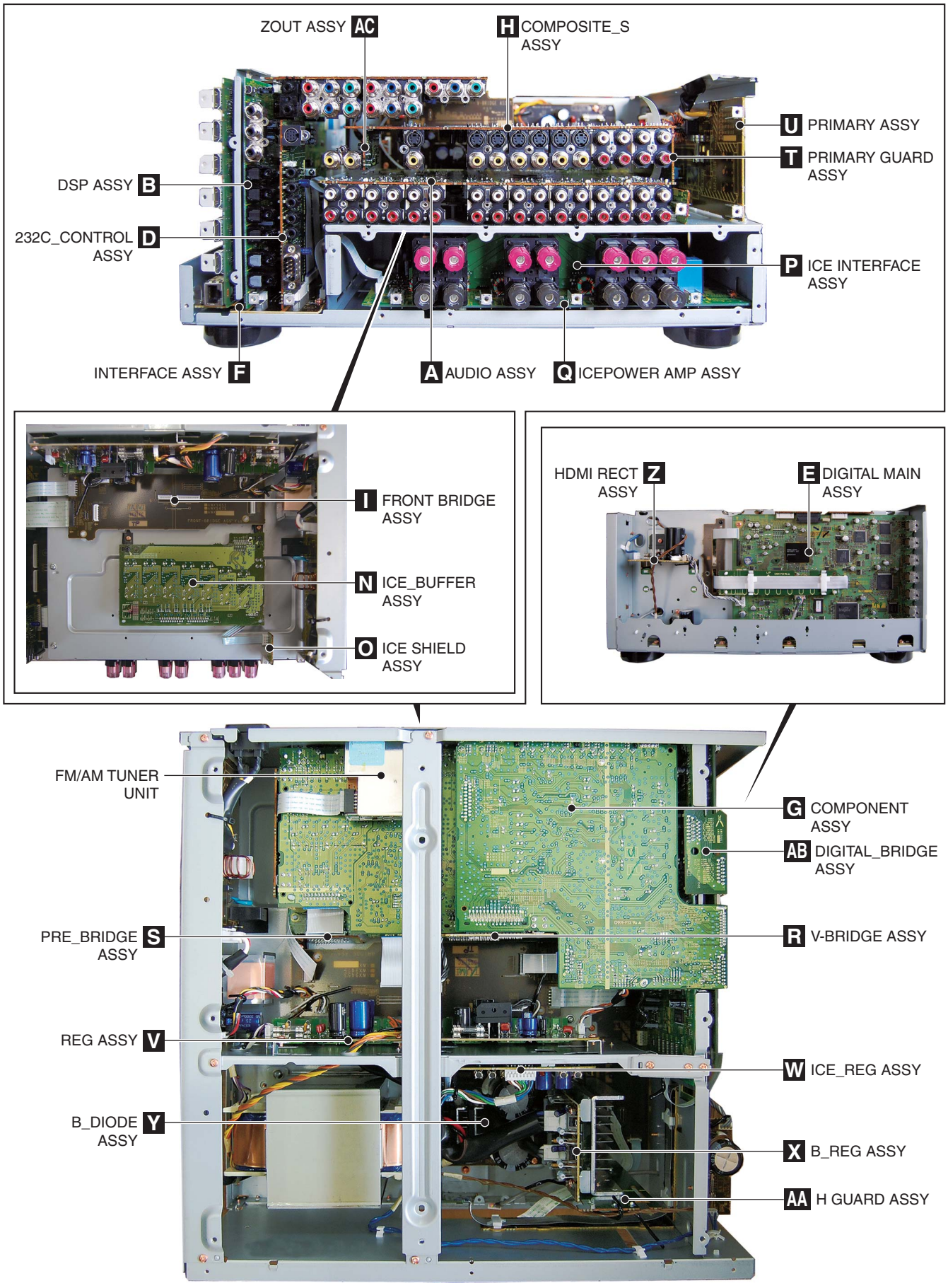
Item to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Flicker	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

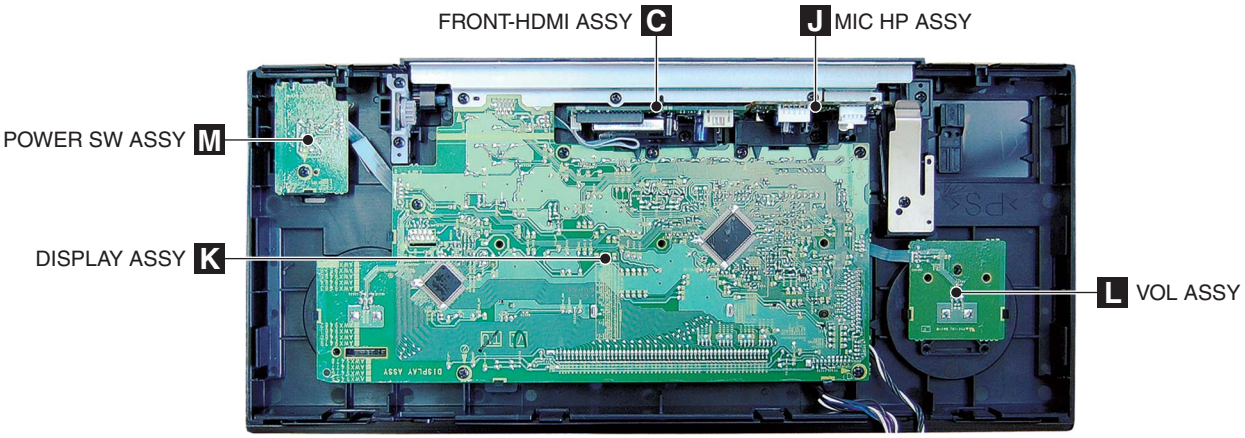
Cleaning

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

Position to be cleaned	Name	Part No.	Remarks
Fans	Cleaning paper	GED-008	Refer to “9.4 CHASSIS SECTION”.

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	SC-27/CUXJCA	SC-25/CUXJCA	SC-9540/CUXJCA
	1..ICEPOWER AMP ASSY	AWH7022	AWH7019	AWH7019
NSP	1..COMPOSITE_ICE ASSY	AWM8143	AWM8143	AWM8143
	2..PRE_BRIDGE ASSY	AWX9440	AWX9440	AWX9440
	2..COMPOSITE_S ASSY	AWX9443	AWX9443	AWX9443
	2..ICE_BUFFER ASSY	AWX9444	AWX9444	AWX9444
	2..ICE SHIELD ASSY	AWX9445	AWX9445	AWX9445
NSP	1..PRIM_DISPLAY ASSY	AWM8145	AWM8150	AWM8171
	2..DISPLAY ASSY	AWX9454	AWX9481	AWX9528
	2..VOL ASSY	AWX9455	AWX9455	AWX9455
	2..POWER SW ASSY	AWX9456	AWX9456	AWX9456
	2..V-BRIDGE ASSY	AWX9457	AWX9457	AWX9457
	2..PRIMARY ASSY	AWX9458	AWX9458	AWX9458
	2..HDMI RECT ASSY	AWX9459	AWX9459	AWX9459
NSP	1..DIGITAL AUDIO ASSY	AWP7070	AWP7072	AWP7072
	2..DSP ASSY	AWX9429	AWX9467	AWX9467
	2..ICE INTERFACE ASSY	AWX9430	AWX9430	AWX9430
NSP	1..COMPONENT_MIC ASSY	AWQ7069	AWQ7071	AWQ7071
	2..COMPONENT ASSY	AWX9437	AWX9490	AWX9490
	2..MIC HP ASSY	AWX9438	AWX9438	AWX9438
	2..ZOUT ASSY	AWX9439	AWX9439	AWX9439
	2..H GUARD ASSY	AWX9441	AWX9441	AWX9441
	2..DIGITAL_BRIDGE ASSY	AWX9461	AWX9461	AWX9461
NSP	1..AUDIO_232C ASSY	AWR7074	AWR7074	AWR7074
	2..AUDIO ASSY	AWX9434	AWX9434	AWX9434
	2..232C_CONTROL ASSY	AWX9435	AWX9435	AWX9435
	2..PRIMARY GUARD ASSY	AWX9436	AWX9436	AWX9436
NSP	1..INTERFACE_REG ASSY	AWR7078	AWR7078	AWR7078
	2..INTERFACE ASSY	AWX9447	AWX9447	AWX9447
	2..ICE_REG ASSY	AWX9448	AWX9448	AWX9448
	2..B_REG ASSY	AWX9450	AWX9450	AWX9450
	2..B_DIODE ASSY	AWX9451	AWX9451	AWX9451
NSP	1..FBRIDGE_REG ASSY	AWR7079	AWR7079	AWR7079
	2..REG ASSY	AWX9452	AWX9452	AWX9452
	2..FRONT BRIDGE ASSY	AWX9453	AWX9453	AWX9453
	1..DIGITAL MAIN ASSY	AWX9463	AWX9463	AWX9463
	1..FRONT-HDMI ASSY	AWX9497	AWX9497	AWX9497
	1..FM/AM TUNER UNIT	AXX7267	AXX7267	AXX7267

3.3 JIGS LIST

[1] Jigs List

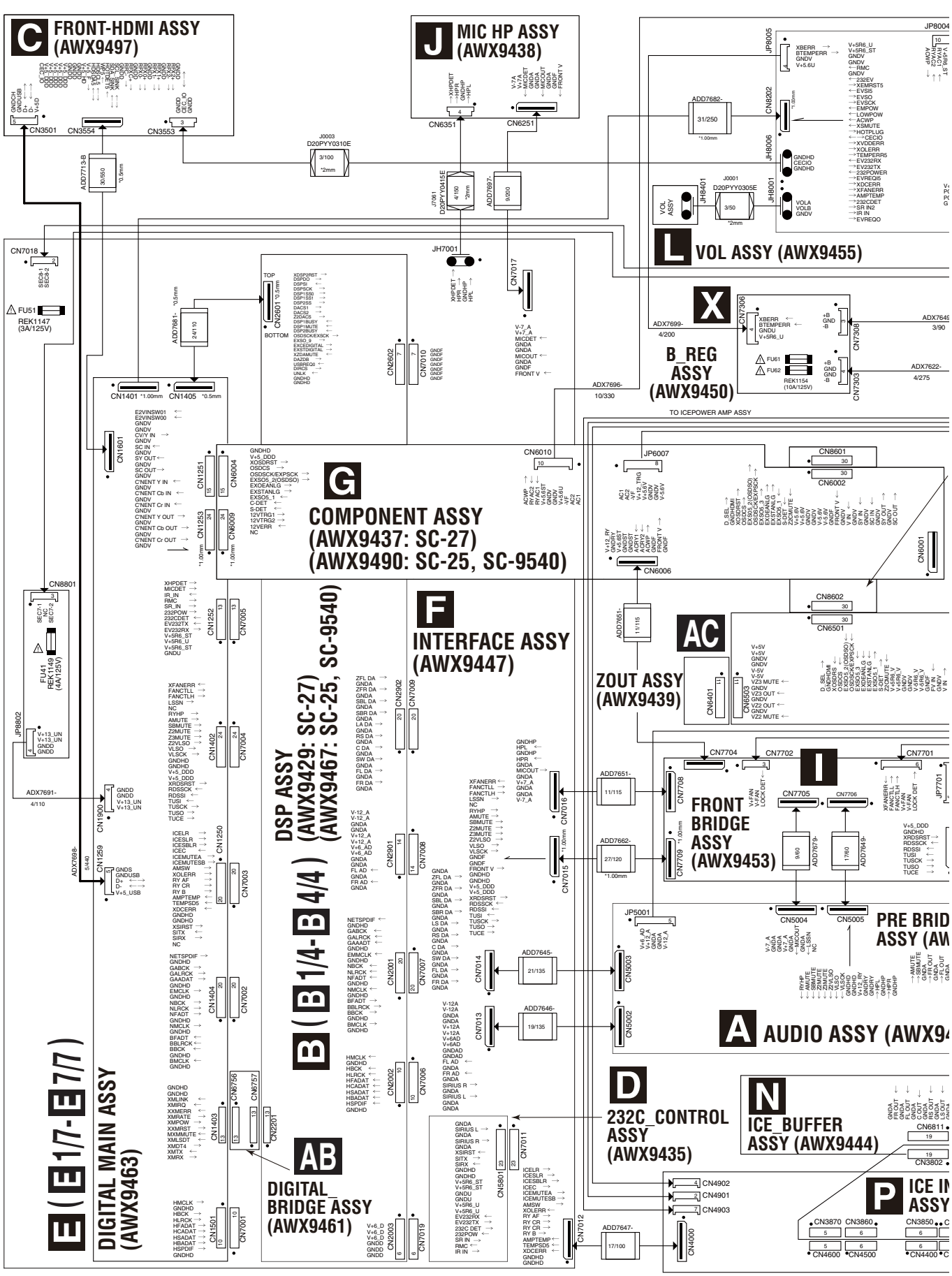
Name	Jig No.	Remarks
27P FFC	GGD1588	Diagnosis
19P FFC	GGD1589	Diagnosis
21P FFC	GGD1590	Diagnosis
11P FFC	GGD1650	Diagnosis
17p+19p board to board extension jig cable	GGD1593	Diagnosis
24p+15p board to board extension jig cable	GGD1651	Diagnosis
8p PH Housing Assy	GGD1652	Diagnosis
5p PH Housing Assy	GGD1594	Diagnosis

[2] Lubricants and Glues List

Name	Lubricants and Glues No.	Remarks
Lubricating Oil	GYA1001	Refer to “9.5 FRONT SECTION”
Silicone Grease	GEM1057	Refer to “9.2 EXTERIOR SECTION”

4. BLOCK DIAGRAM

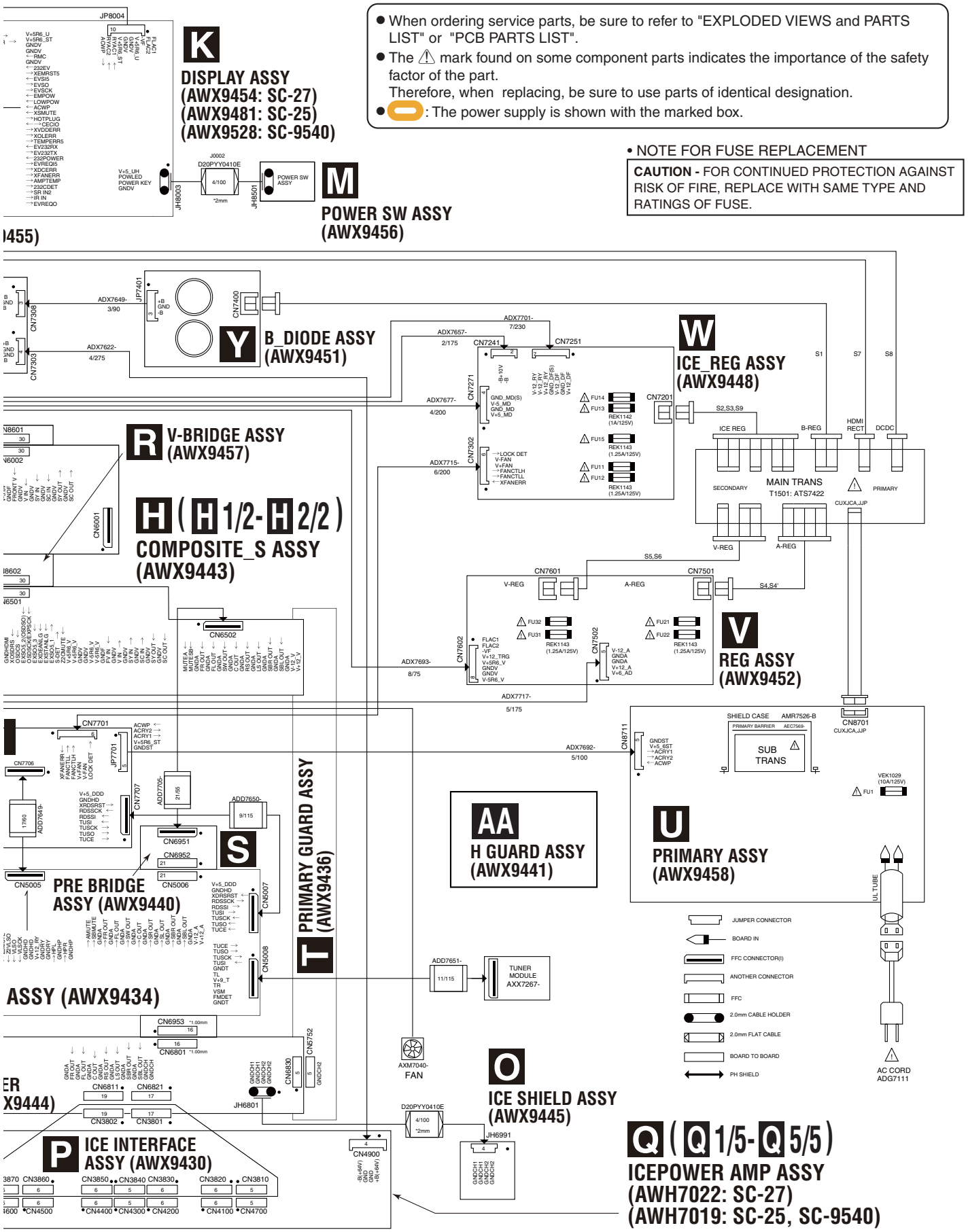
4.1 OVERALL WIRING DIAGRAM



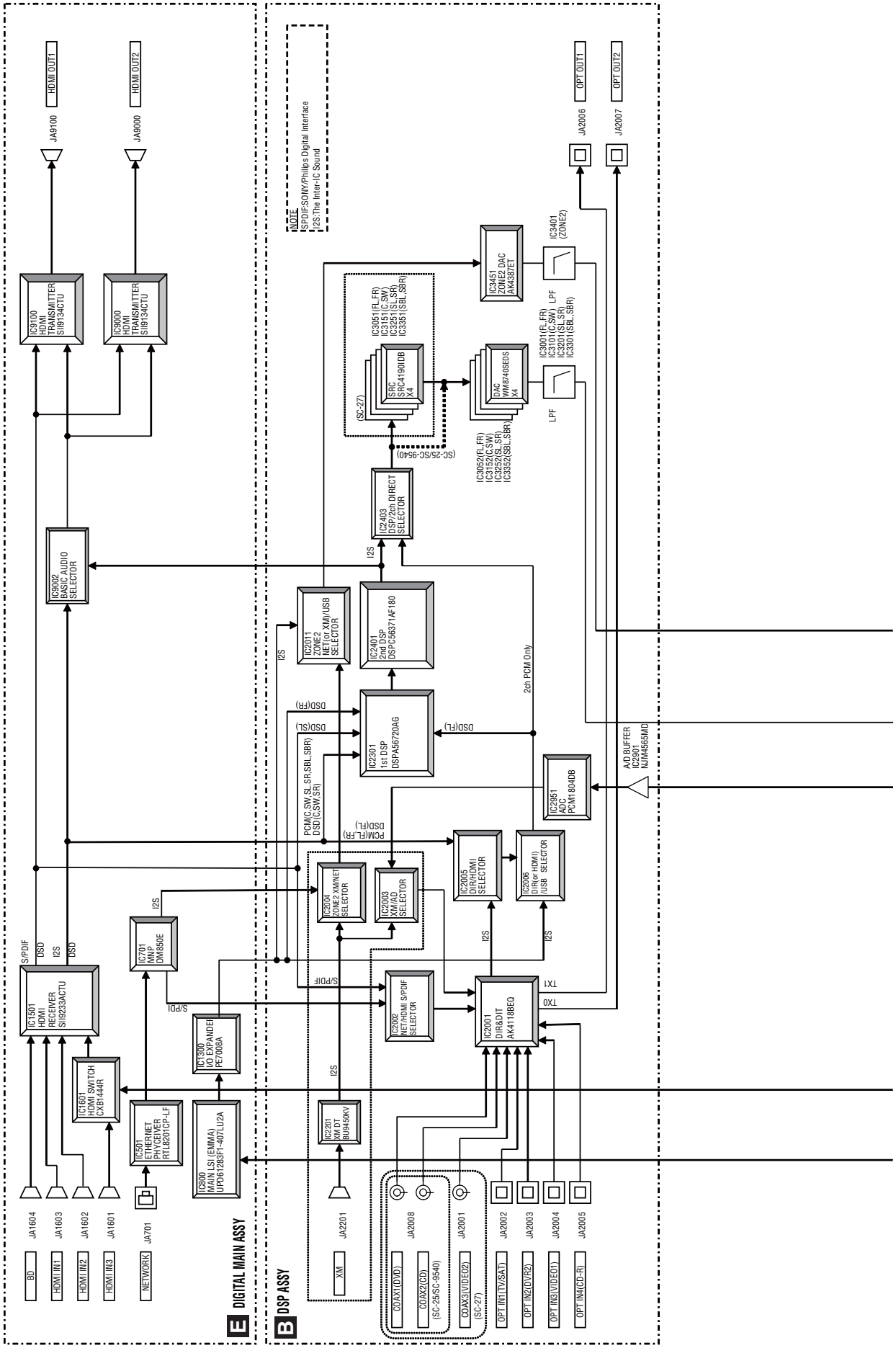
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.
  Therefore, when replacing, be sure to use parts of identical designation.
- ⬭: The power supply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

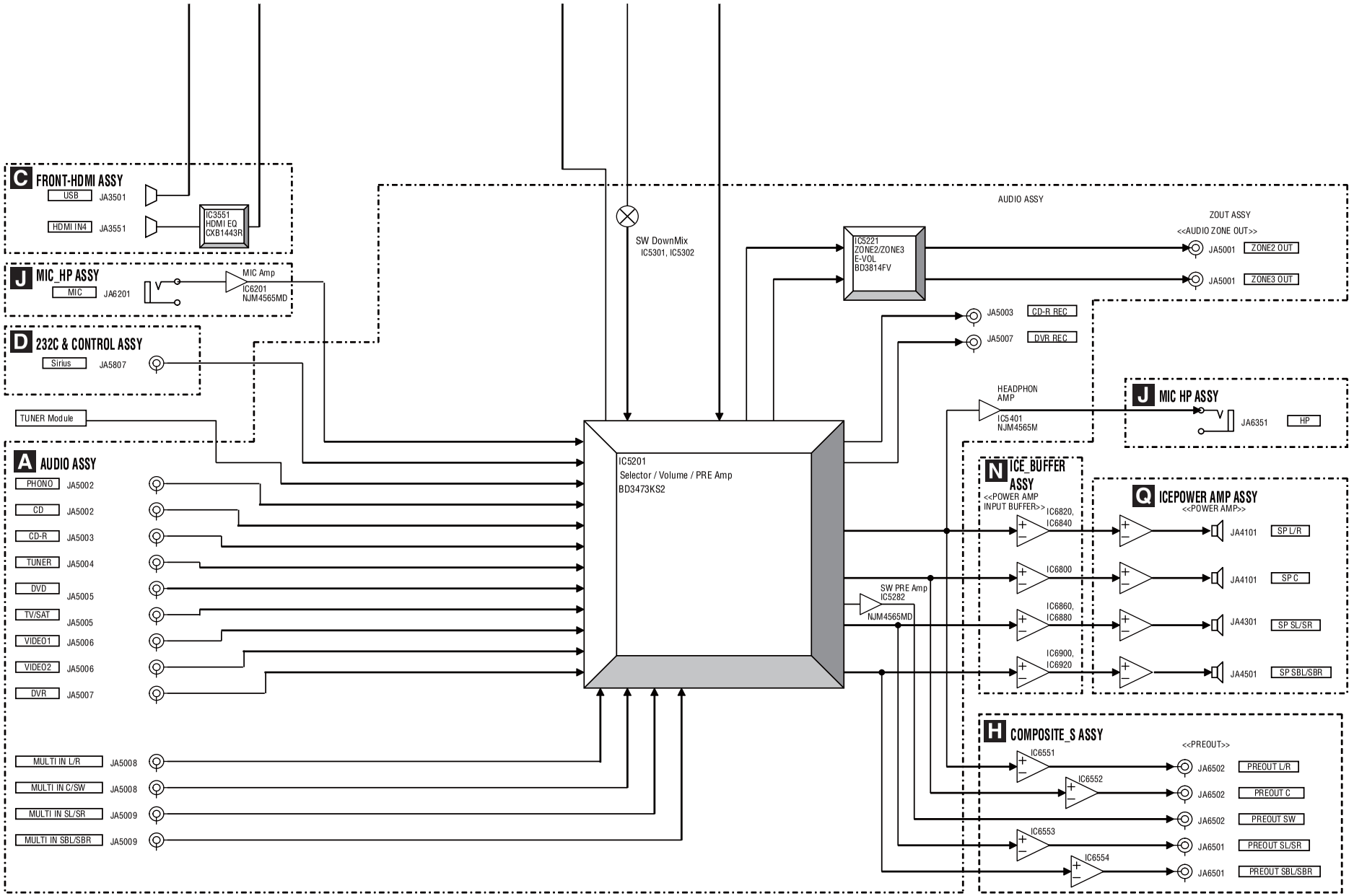
• NOTE FOR FUSE REPLACEMENT

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

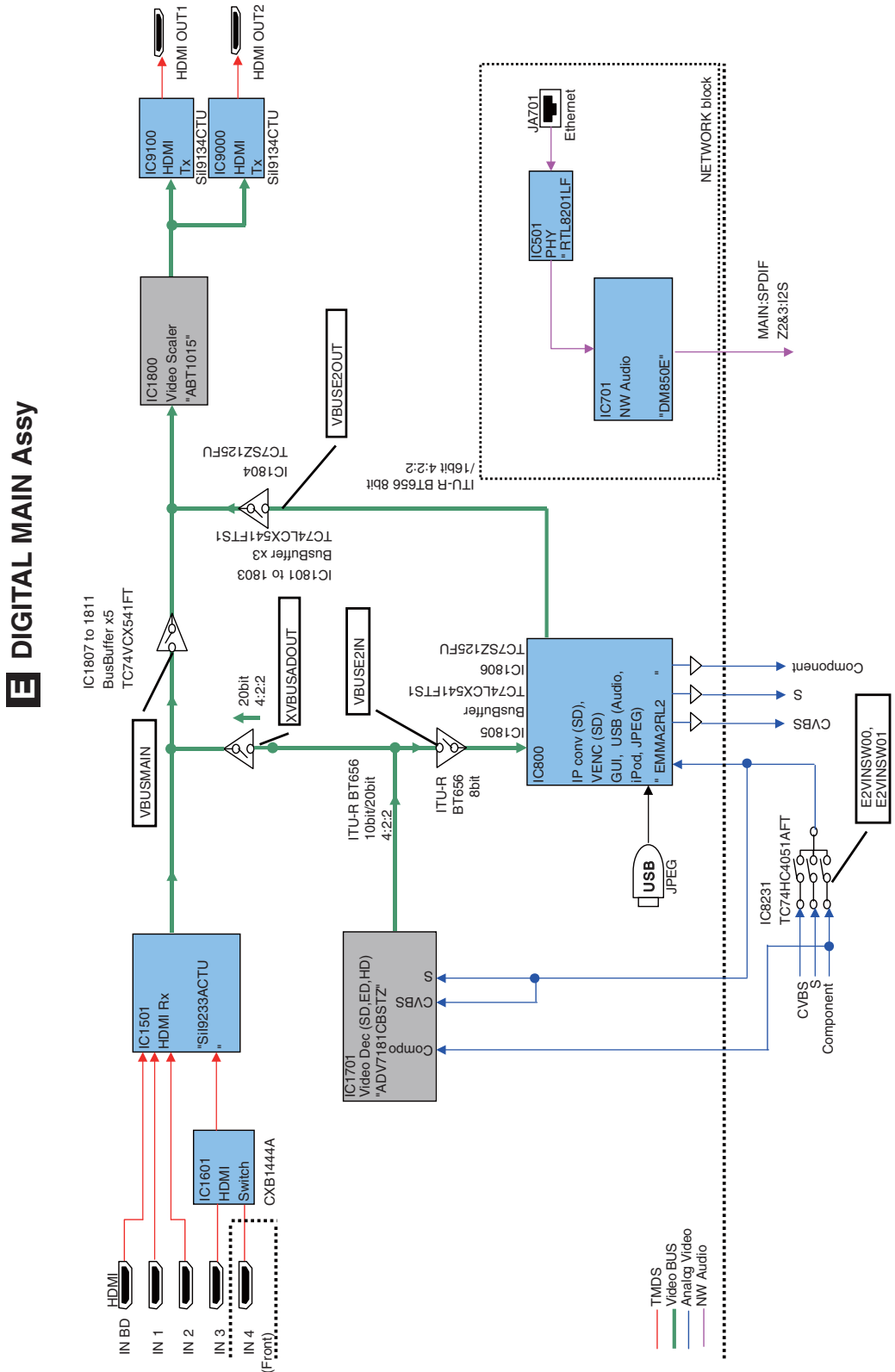


4.2 BLOCK DIAGRAM FOR AUDIO BLOCK

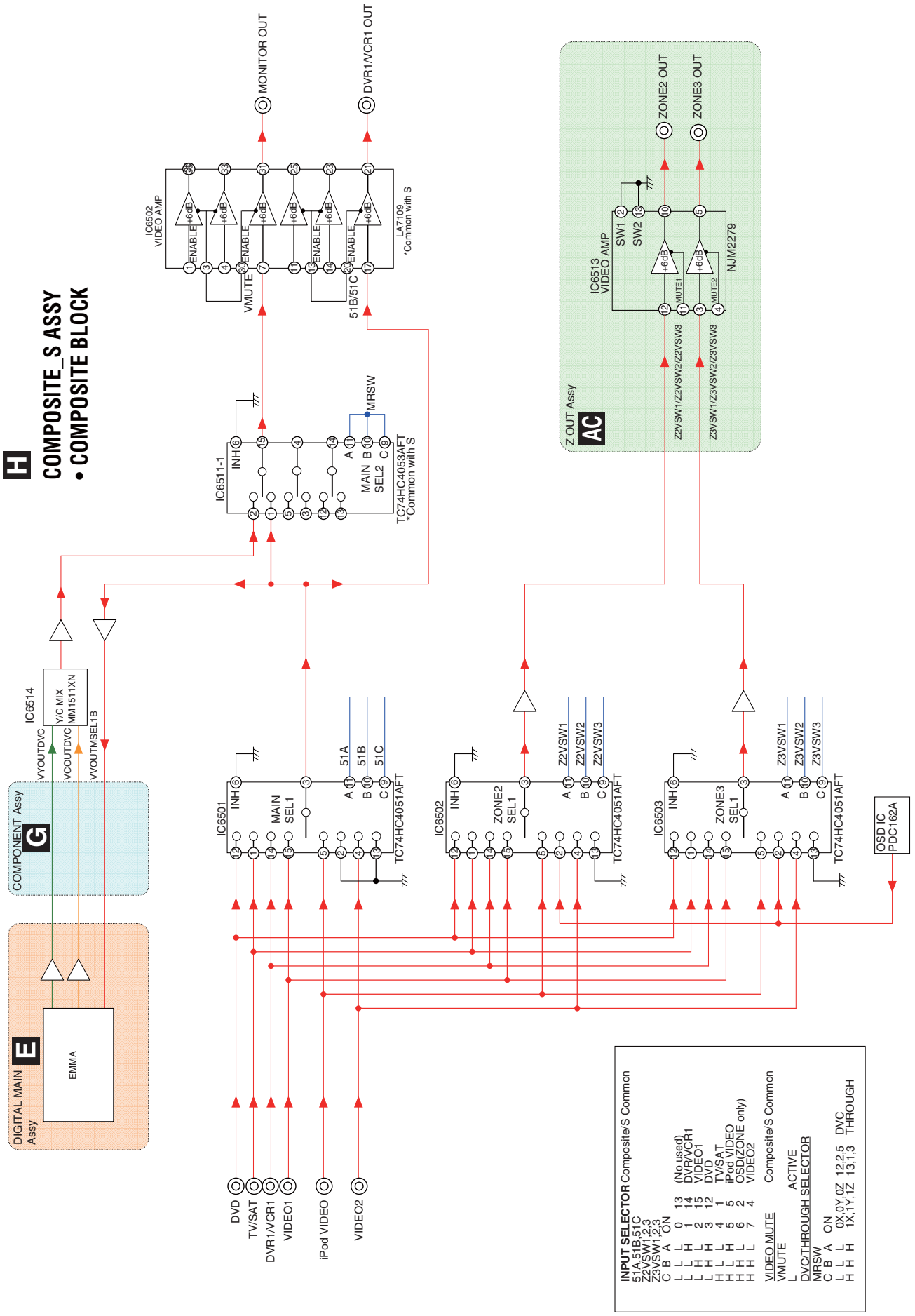



C FRONT-HDMI ASSY
USB
JA3501
HDMI IN4
JA3551
IC3551
HDMI EQ
CXB1443R
J MIC_HP ASSY
MIC
JA6201
MIC Amp
IC6201
NJM4565MD
D 232C & CONTROL ASSY
Sirius
JA5807
TUNER Module
A AUDIO ASSY
PHONO JA5002
CD JA5002
CD-R JA5003
TUNER JA5004
DVD JA5005
TV/SAT JA5005
VIDEO1 JA5006
VIDEO2 JA5006
DVR JA5007
MULTI IN L/R JA5008
MULTI IN C/SW JA5008
MULTI IN SL/SR JA5009
MULTI IN SBL/SBR JA5009
SW DownMix
IC5301, IC5302
IC5201
Selector / Volume / PRE Amp
BD3473KS2
AUDIO ASSY
IC5221
ZONE2/ZONE3
E-VOL
BD3814FV
ZOUT ASSY
<<AUDIO ZONE OUT>>
JA5001
ZONE2 OUT
JA5001
ZONE3 OUT
JA5003
CD-R REC
JA5007
DVR REC
HEADPHON
AMP
IC5401
NJM4565M
J MIC HP ASSY
JA6351
HP
N ICE_BUFFER
ASSY
<<POWER AMP
INPUT BUFFER>>
IC6820,
IC6840
IC6800
SW PRE Amp
IC5282
NJM4565MD
IC6860,
IC6880
IC6900,
IC6920
Q ICEPOWER AMP ASSY
<<POWER AMP>>
JA4101
SP L/R
JA4101
SP C
JA4301
SP SL/SR
JA4501
SP SBL/SBR
H COMPOSITE_S ASSY
<<PREOUT>>
IC6551
IC6552
IC6553
IC6554
JA6502
PREOUT L/R
JA6502
PREOUT C
JA6502
PREOUT SW
JA6501
PREOUT SL/SR
JA6501
PREOUT SBL/SBR

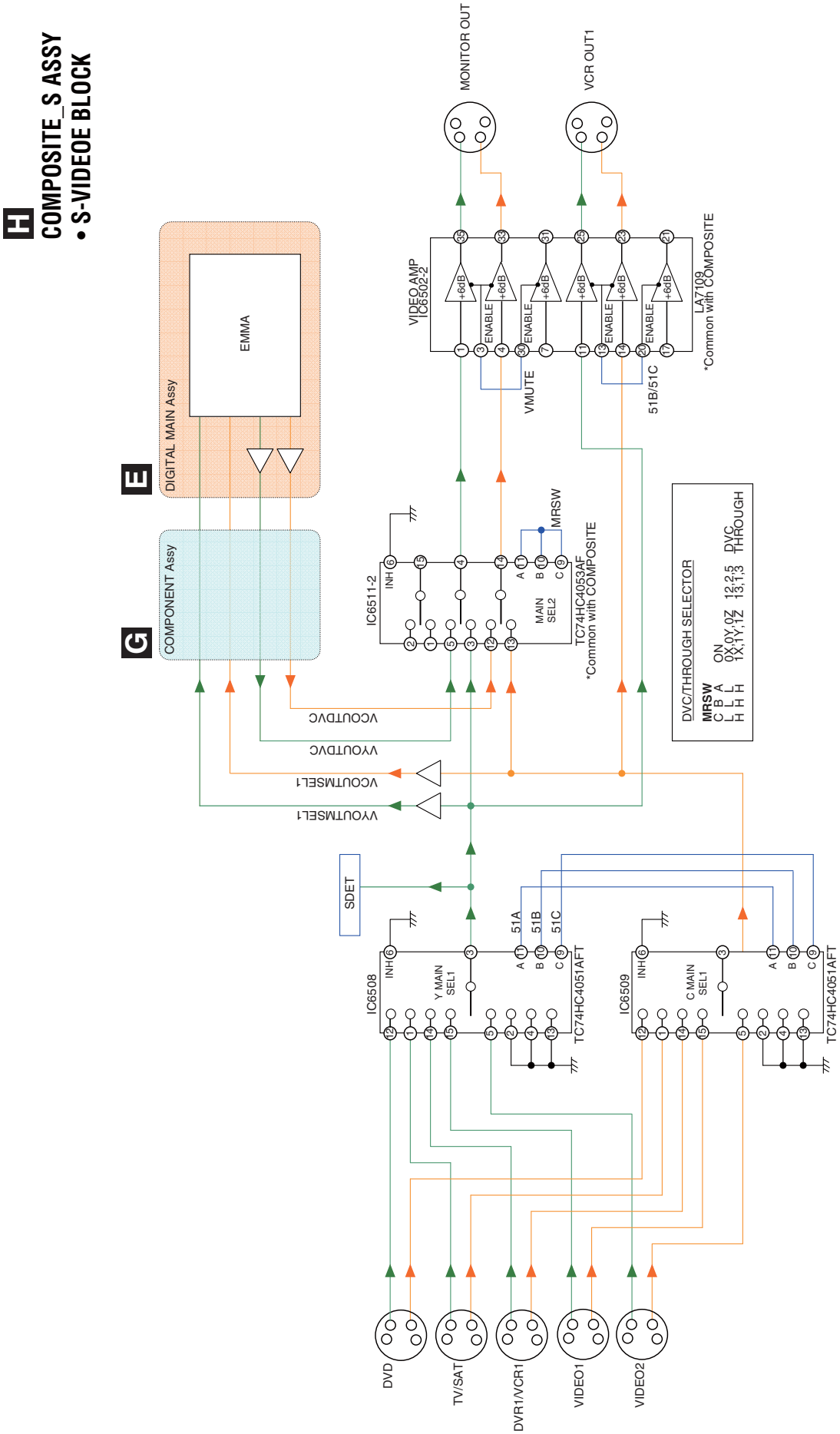
4.3 BLOCK DIAGRAM FOR DIGITAL VIDEO AND NW AUDIO



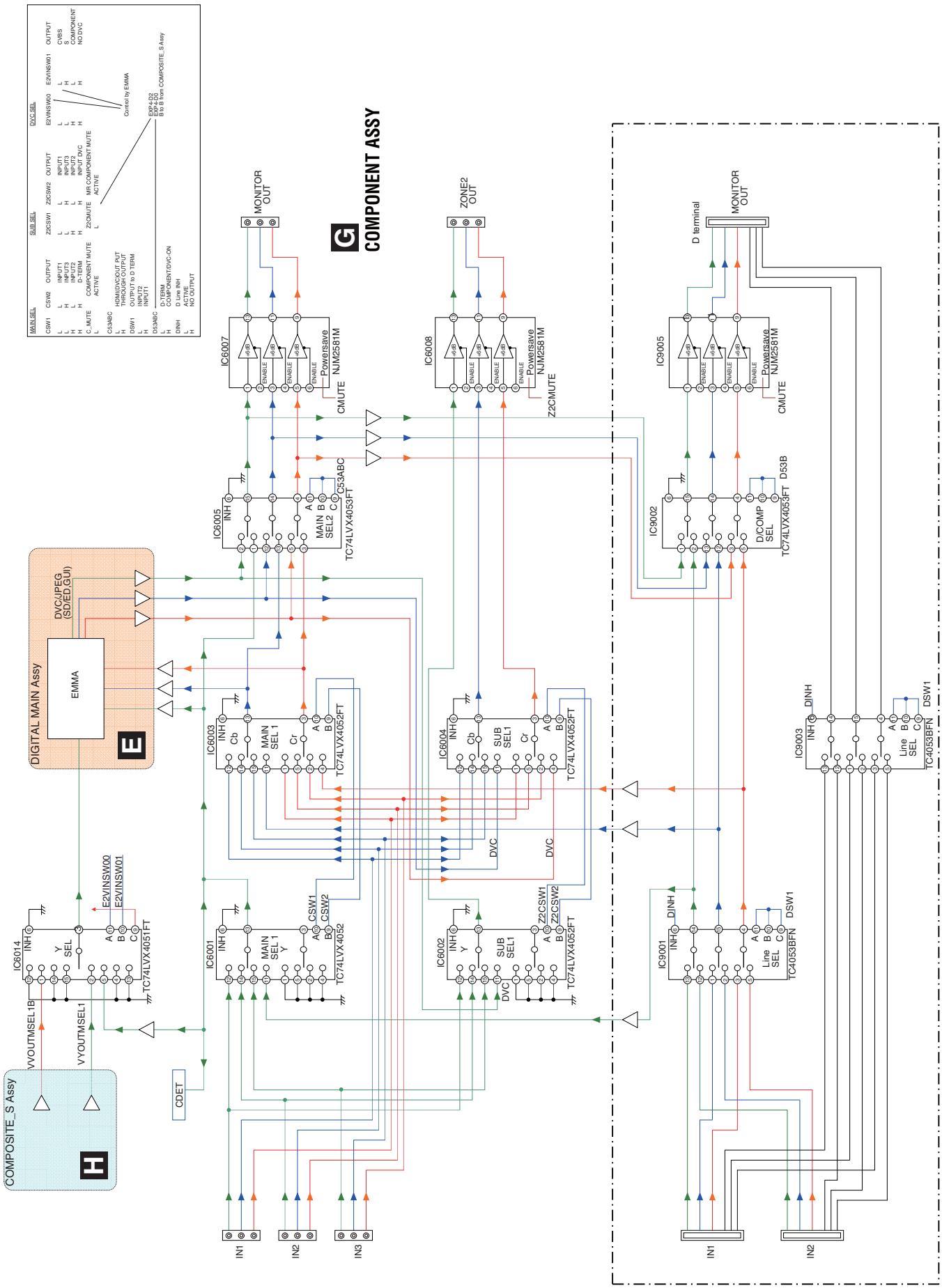
4.4 BLOCK DIAGRAM FOR ANALOG VIDEO BLOCK (1/4)



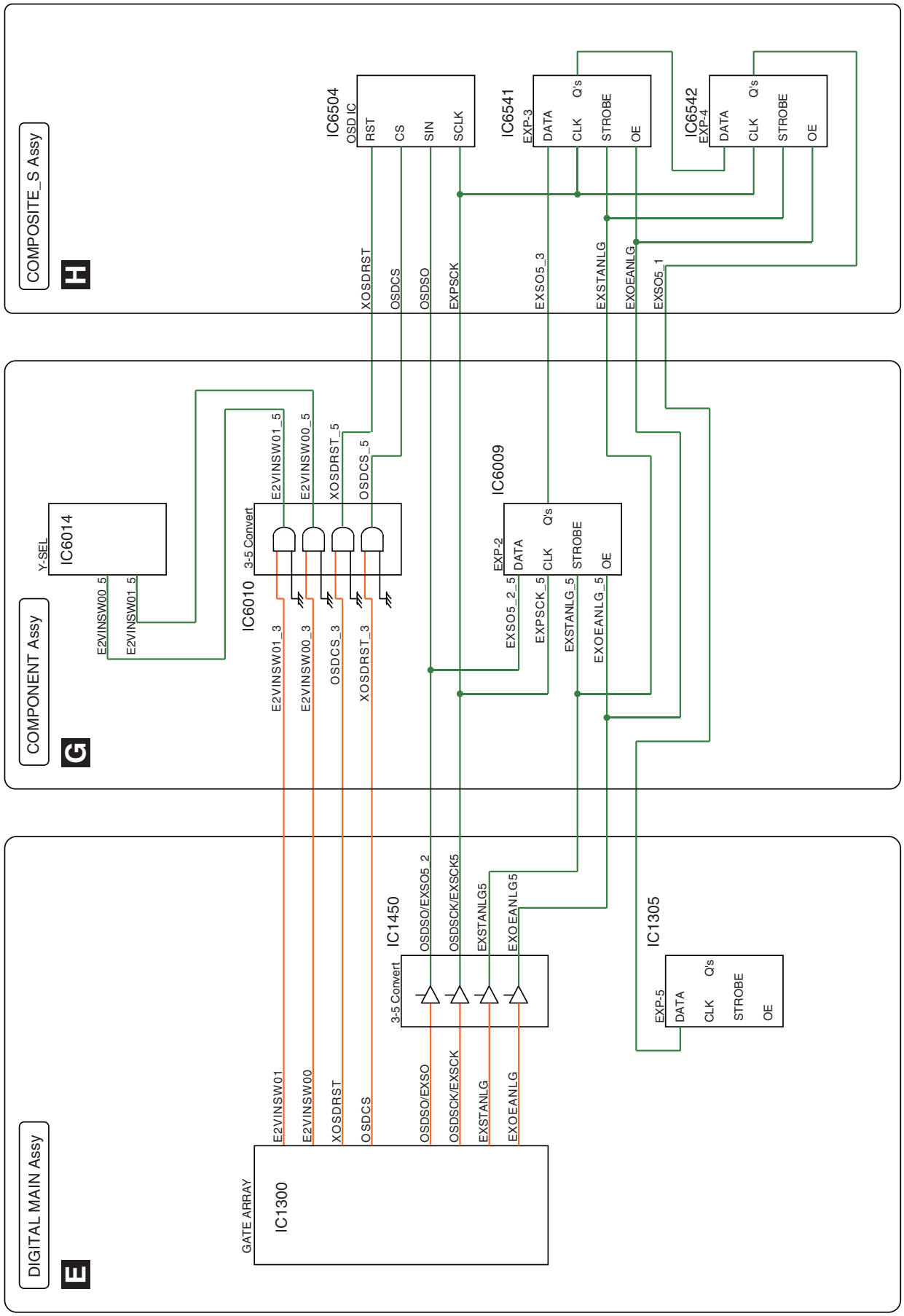
4.5 BLOCK DIAGRAM FOR ANALOG VIDEO BLOCK (2/4)



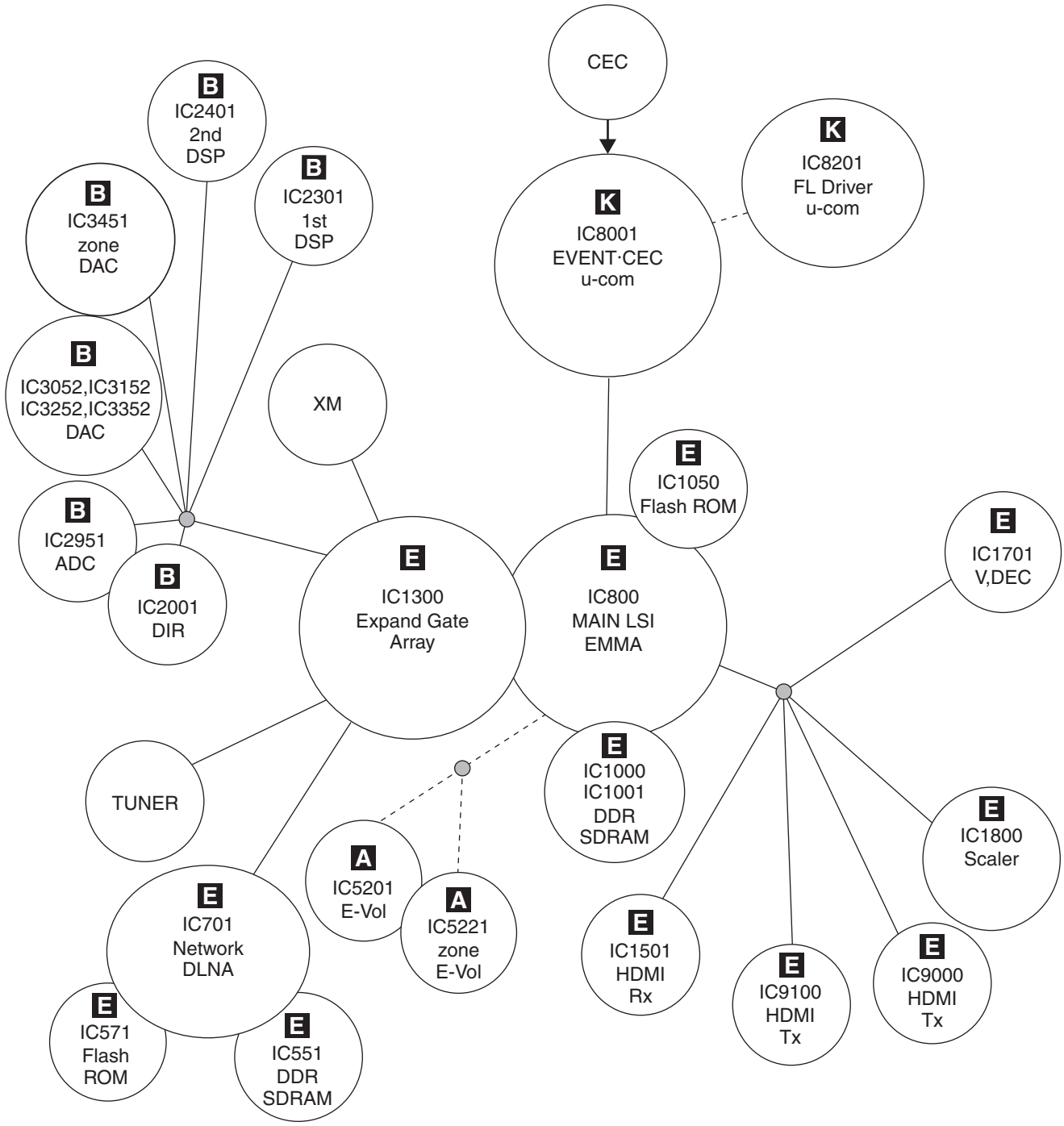
4.6 BLOCK DIAGRAM FOR ANALOG VIDEO BLOCK (3/4)



4.7 BLOCK DIAGRAM FOR ANALOG VIDEO BLOCK (4/4)

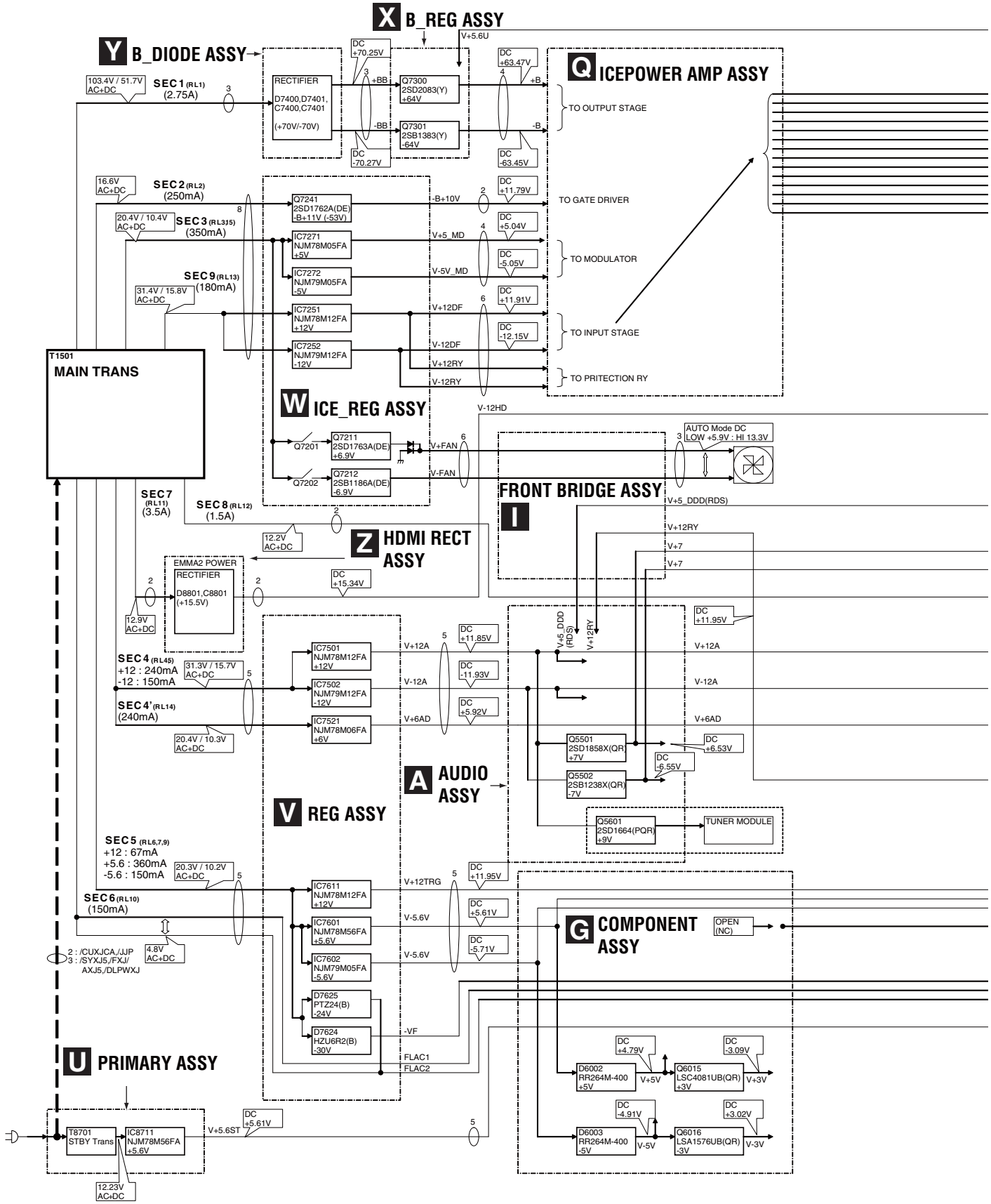


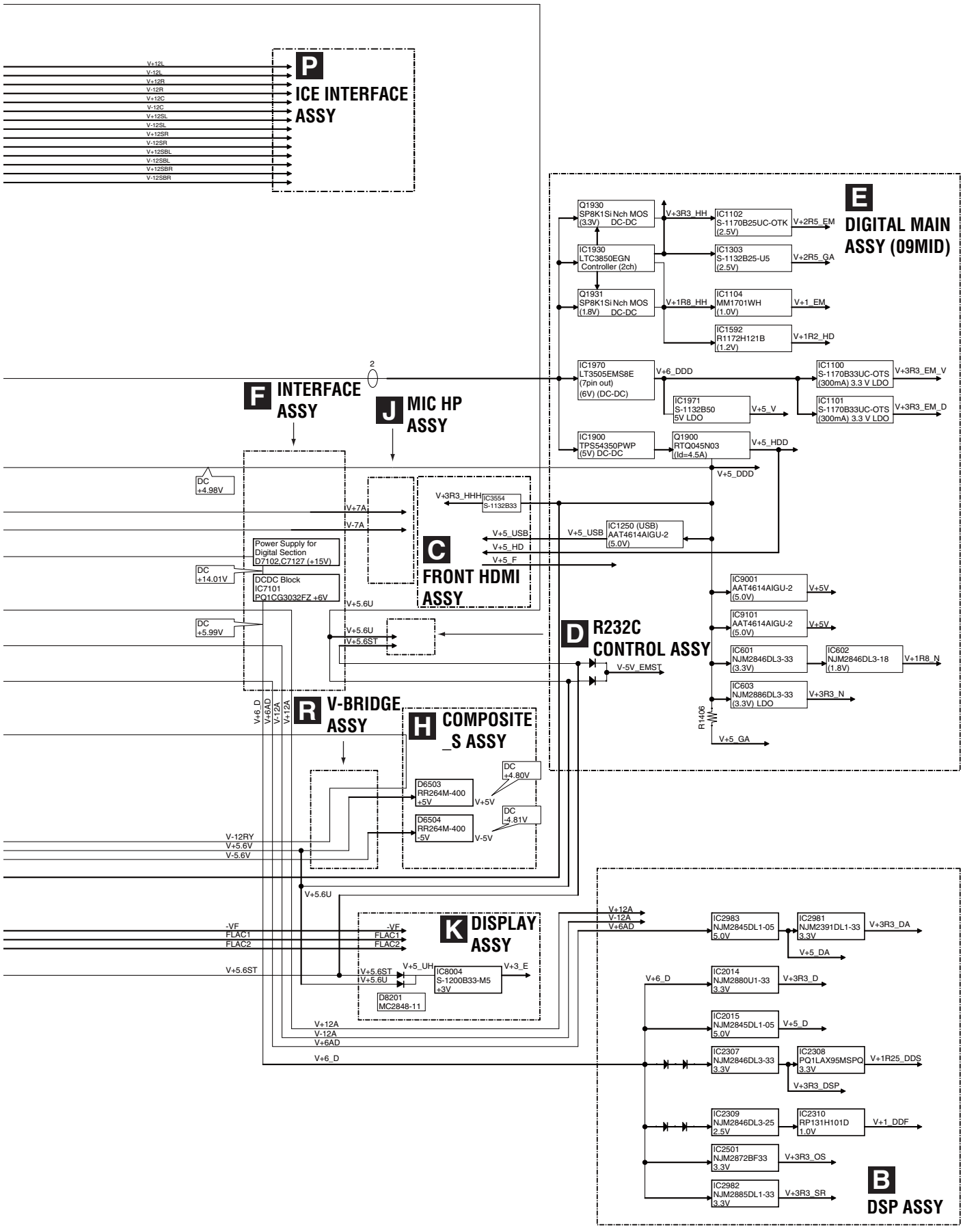
4.8 BLOCK DIAGRAM FOR U-COM BLOCK



The User Memory data is stored in IC1050(AYW7298) of EMMA Flash ROM and IC8001(PDC188C8) of Event ucom. The setting of the protection history and zone is stored in EVENT ucom and other setting data of user data is stored in EMMA Flash ROM.

4.9 BLOCK DIAGRAM FOR POWER BLOCK




P
ICE INTERFACE ASSY
V+12L
V-12L
V+12R
V-12R
V+12C
V-12C
V+12SL
V-12SL
V+12SR
V-12SR
V+12SBL
V-12SBL
V+12SBR
V-12SBR
E
DIGITAL MAIN ASSY (09MID)
Q1930 SP8K1Si Nch MOS (3.3V) DC-DC
V+3R3_HH
IC1102 S-1170B25UC-OTK (2.5V)
V+2R5_EM
IC1930 LTC3850EGN Controller (2ch)
IC1303 S-1132B25-U5 (2.5V)
V+2R5_GA
Q1931 SP8K1Si Nch MOS (1.8V) DC-DC
V+1R8_HH
IC1104 MM1701WH (1.0V)
V+1_EM
IC1592 R1172H121B (1.2V)
V+1R2_HD
IC1970 LT3505EMS8E (7pin out) (6V) (DC-DC)
V+6_DDD
IC1100 S-1170B33UC-OTS (300mA) 3.3 V LDO
V+3R3_EM_V
IC1971 S-1132B50 5V LDO
V+5_V
IC1101 S-1170B33UC-OTS (300mA) 3.3 V LDO
V+3R3_EM_D
IC1900 TPS54350PWP (5V) DC-DC
Q1900 RTQ045N03 (Id=4.5A)
V+5_HDD
V+5_DDD
F
INTERFACE ASSY
J
MIC HP ASSY
DC +4.98V
V+7A
V-7A
Power Supply for Digital Section D7102,C7127 (+15V)
DC +14.01V
DCDC Block IC7101 PQ1CG3032FZ +6V
V+5.6U
DC +5.99V
V+5.6ST
V+3R3_HHH
IC3554 S-1132B33
C
FRONT HDMI ASSY
V+5_USB
V+5_HD
V+5_F
V+5_USB
IC1250 (USB) AAT4614AIGU-2 (5.0V)
D
R232C CONTROL ASSY
V-5V_EMST
IC9001 AAT4614AIGU-2 (5.0V)
V+5V
IC9101 AAT4614AIGU-2 (5.0V)
V+5V
IC601 NJM2846DL3-33 (3.3V)
IC602 NJM2846DL3-18 (1.8V)
V+1R8_N
IC603 NJM2886DL3-33 (3.3V) LDO
V+3R3_N
R1406
V+5_GA
R
V-BRIDGE ASSY
V+6_D
V+6AD
V-12A
V+12A
H
COMPOSITE _S ASSY
D6503 RR264M-400 +5V
DC +4.80V
V+5V
D6504 RR264M-400 -5V
DC -4.81V
V-5V
V-12RY
V+5.6V
V-5.6V
V+5.6U
K
DISPLAY ASSY
-VF
FLAC1
FLAC2
V+5.6ST
V+5_UH
IC8004 S-1200B33-M5 +3V
V+3_E
V+5.6ST
V+5.6U
D8201 MC2848-11
V+12A
V-12A
V+6AD
V+6_D
B
DSP ASSY
V+12A
V-12A
V+6AD
IC2983 NJM2845DL1-05 5.0V
IC2981 NJM2391DL1-33 3.3V
V+3R3_DA
V+5_DA
V+6_D
IC2014 NJM2880U1-33 3.3V
V+3R3_D
IC2015 NJM2845DL1-05 5.0V
V+5_D
IC2307 NJM2846DL3-33 3.3V
IC2308 PQ1LAX95MSPQ 3.3V
V+1R25_DDS
V+3R3_DSP
IC2309 NJM2846DL3-25 2.5V
IC2310 RP131H101D 1.0V
V+1_DDF
IC2501 NJM2872BF33 3.3V
V+3R3_OS
IC2982 NJM2885DL1-33 3.3V
V+3R3_SR

5. DIAGNOSIS
5.1 DIAGNOSIS FLOWCHART

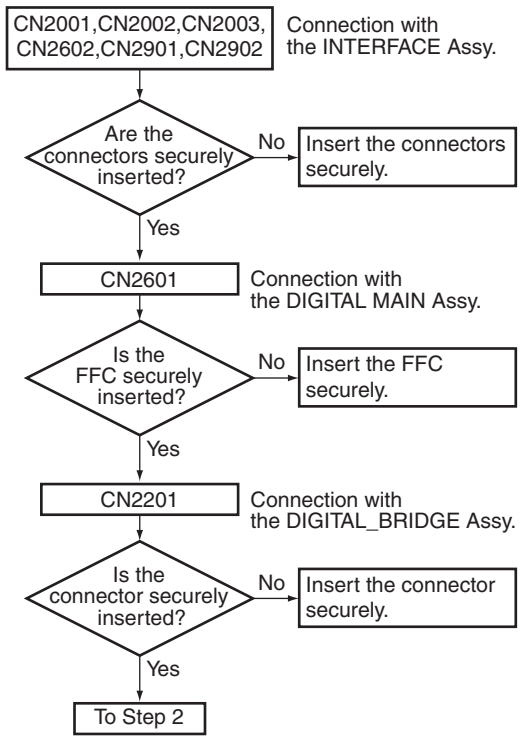
[1] DSP Troubleshooting

(1) Simplified diagnosis
Errors in the DSP Block of the DSP Assy (those simply and roughly predictable by machine operation only)

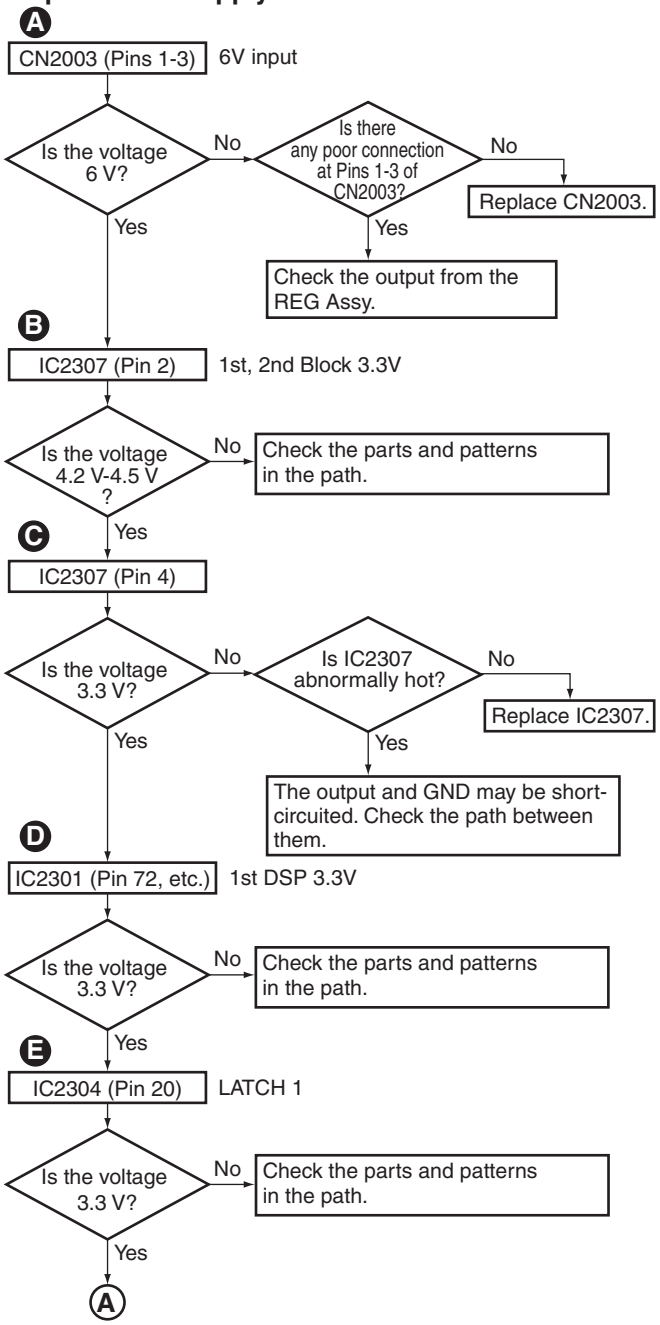
- Has DSP block caused the malfunction?
  Inputting a 2 ch PCM (such as CD) digital signal, check if the sound plays by switching AUTO SURR / STREAM DIRECT. When the sound doesn't play in AUTO SURROUND or DIRECT MODE though it does in PURE DIRECT (PCM DIRECT) MODE, DSP block might be defective.

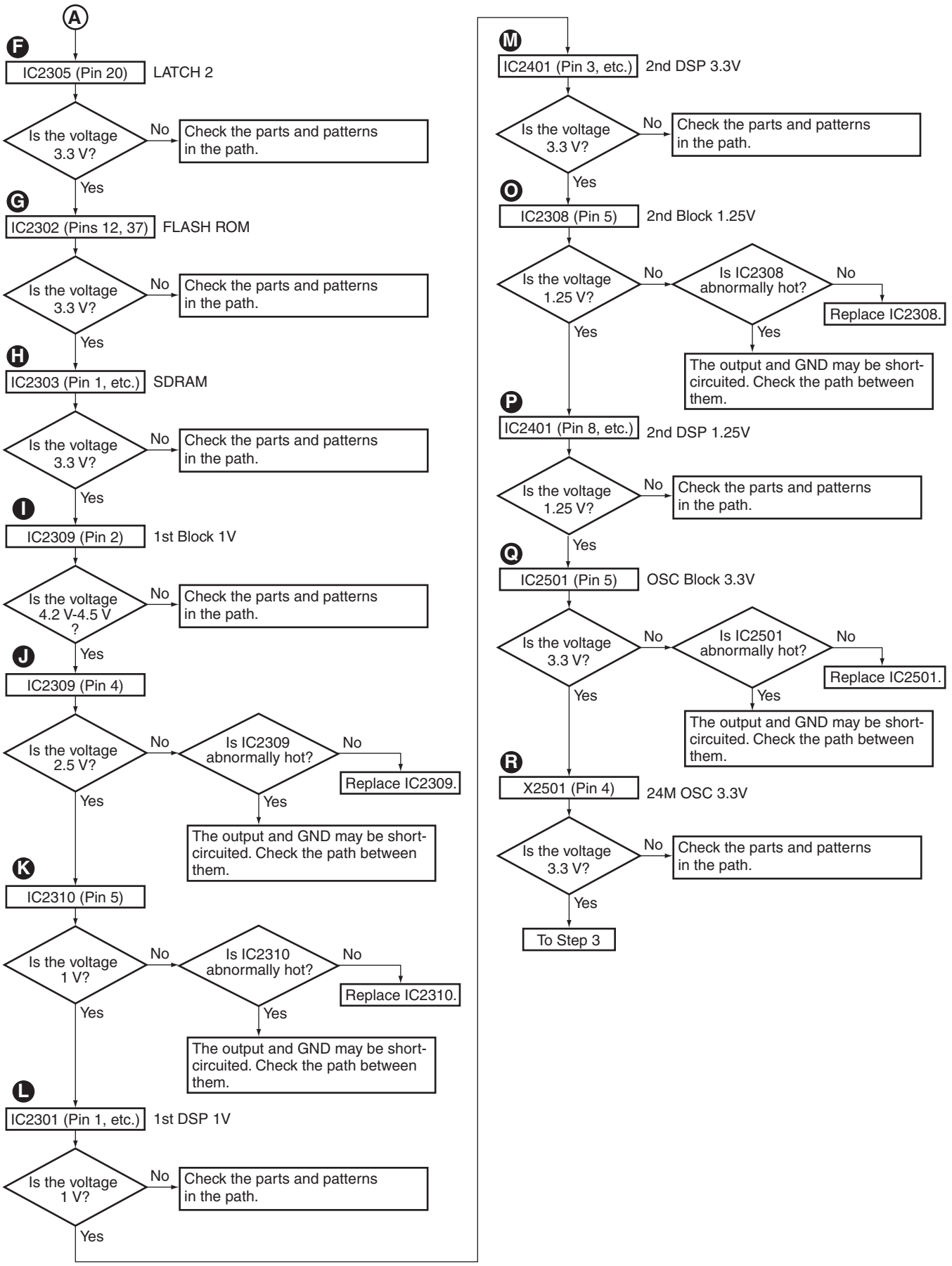
(2) Troubleshooting
- Assume that the LCRs are neither in poor connection nor damaged.
- This shows failure analysis for the DSP Block of the DSP Assy.
- The parts marked like Ⓐ in the following chart are located in "Check Points of the DSP Assy."

Step 1: Connections

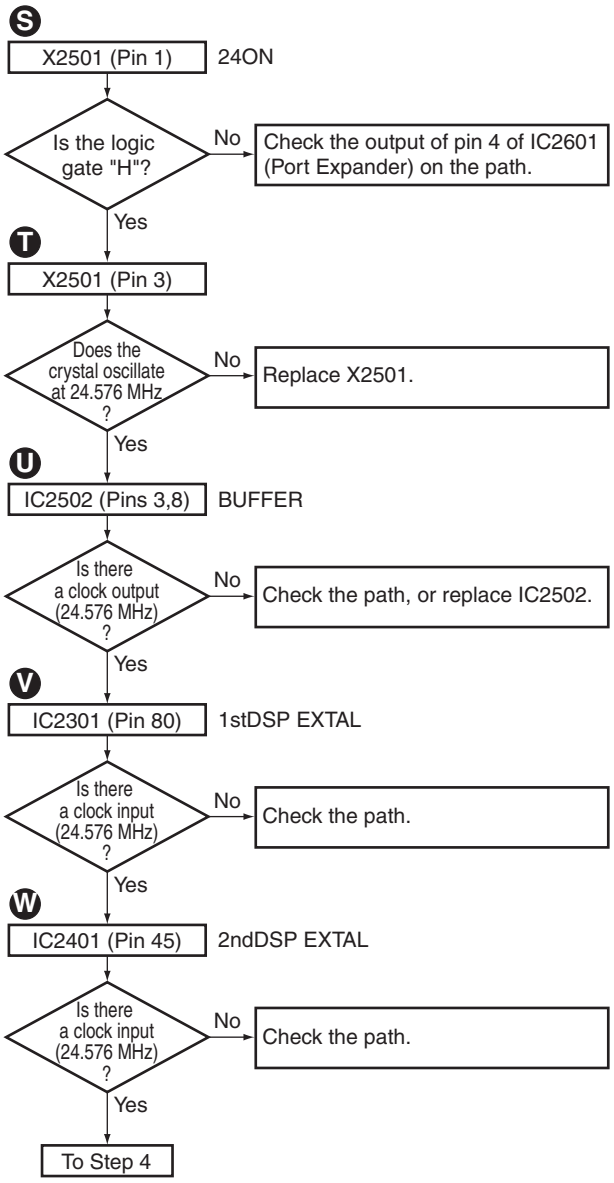


Step 2: Power supply

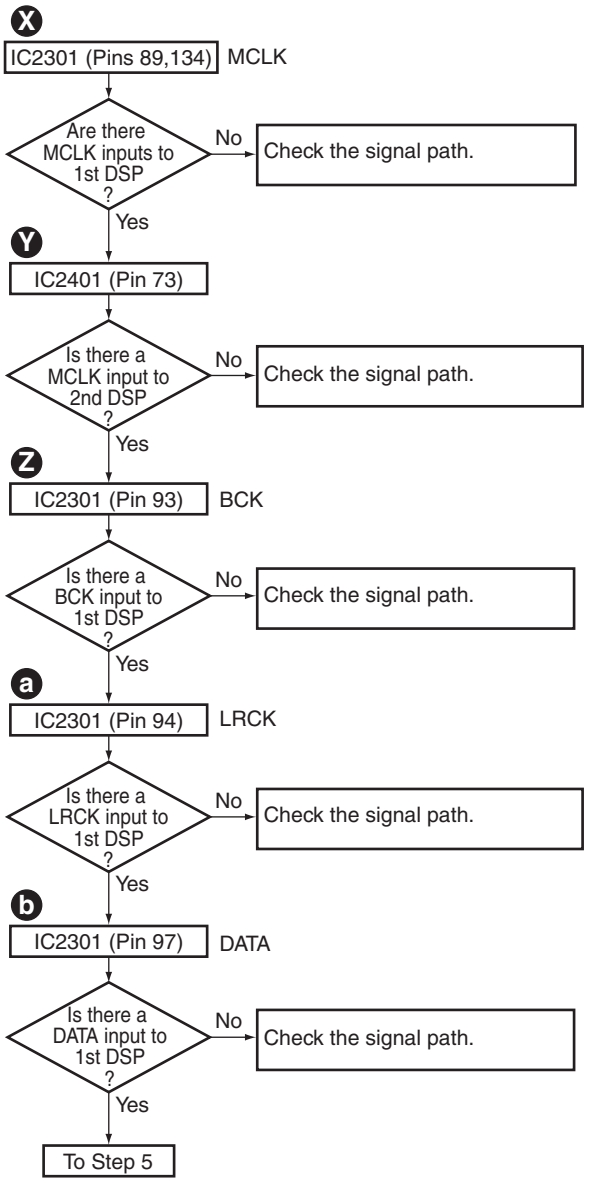



A
F
IC2305 (Pin 20)
LATCH 2
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
G
IC2302 (Pins 12, 37)
FLASH ROM
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
H
IC2303 (Pin 1, etc.)
SDRAM
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
I
IC2309 (Pin 2)
1st Block 1V
Is the voltage 4.2 V-4.5 V ?
No
Check the parts and patterns in the path.
Yes
J
IC2309 (Pin 4)
Is the voltage 2.5 V?
No
Is IC2309 abnormally hot?
No
Replace IC2309.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
K
IC2310 (Pin 5)
Is the voltage 1 V?
No
Is IC2310 abnormally hot?
No
Replace IC2310.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
L
IC2301 (Pin 1, etc.)
1st DSP 1V
Is the voltage 1 V?
No
Check the parts and patterns in the path.
Yes
M
IC2401 (Pin 3, etc.)
2nd DSP 3.3V
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
O
IC2308 (Pin 5)
2nd Block 1.25V
Is the voltage 1.25 V?
No
Is IC2308 abnormally hot?
No
Replace IC2308.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
P
IC2401 (Pin 8, etc.)
2nd DSP 1.25V
Is the voltage 1.25 V?
No
Check the parts and patterns in the path.
Yes
Q
IC2501 (Pin 5)
OSC Block 3.3V
Is the voltage 3.3 V?
No
Is IC2501 abnormally hot?
No
Replace IC2501.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
R
X2501 (Pin 4)
24M OSC 3.3V
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
To Step 3

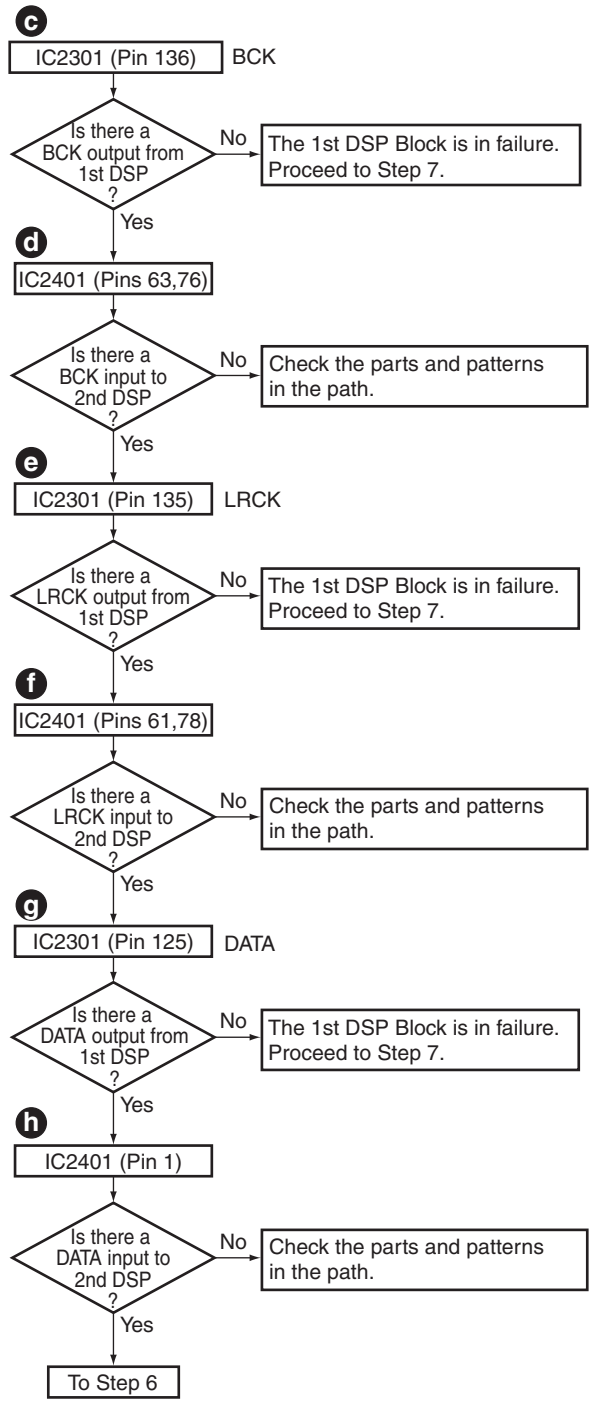
Step 3: EXTAL Clock



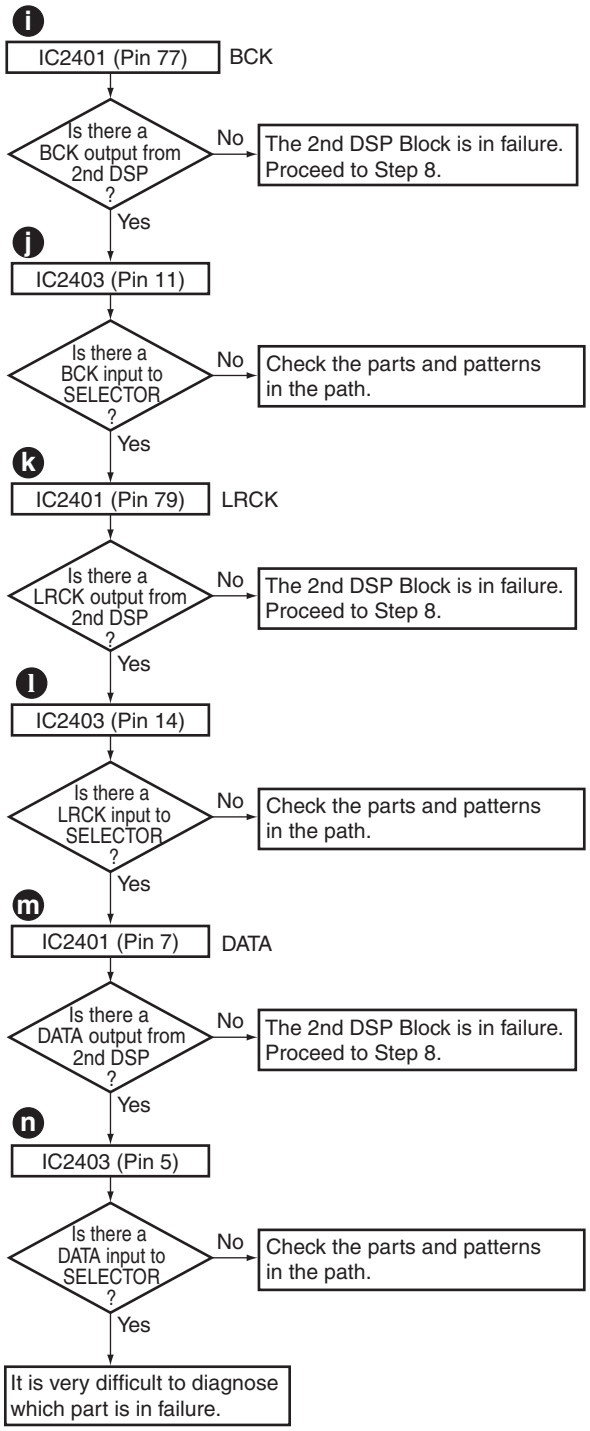
Step 4: Audio Signal



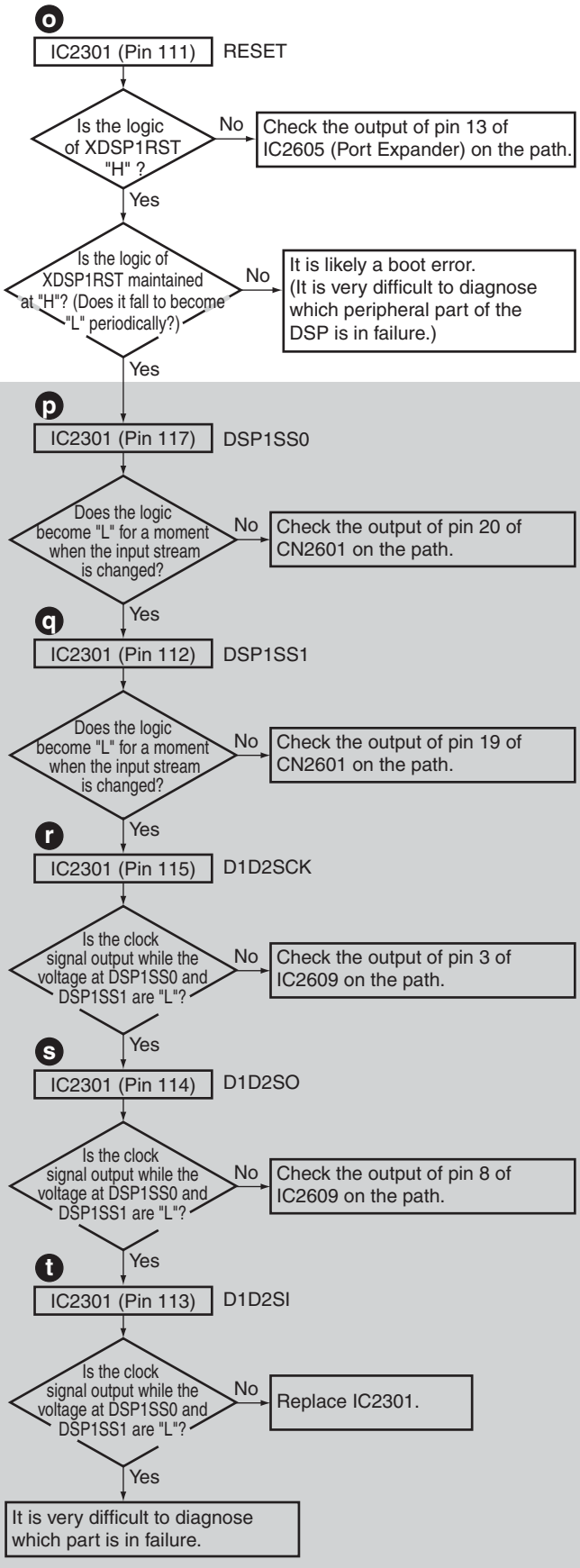
Step 5: Audio Signal



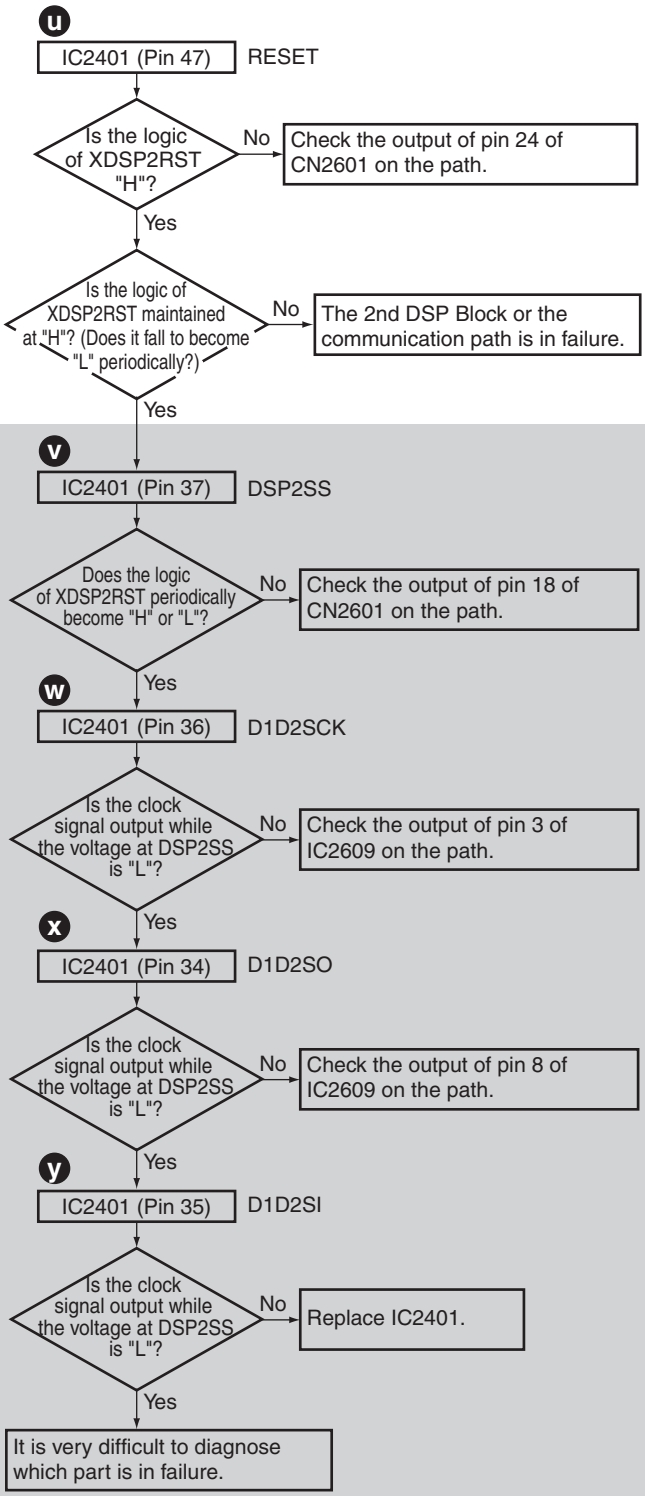
Step 6: Audio Signal



Step 7: 1st DSP

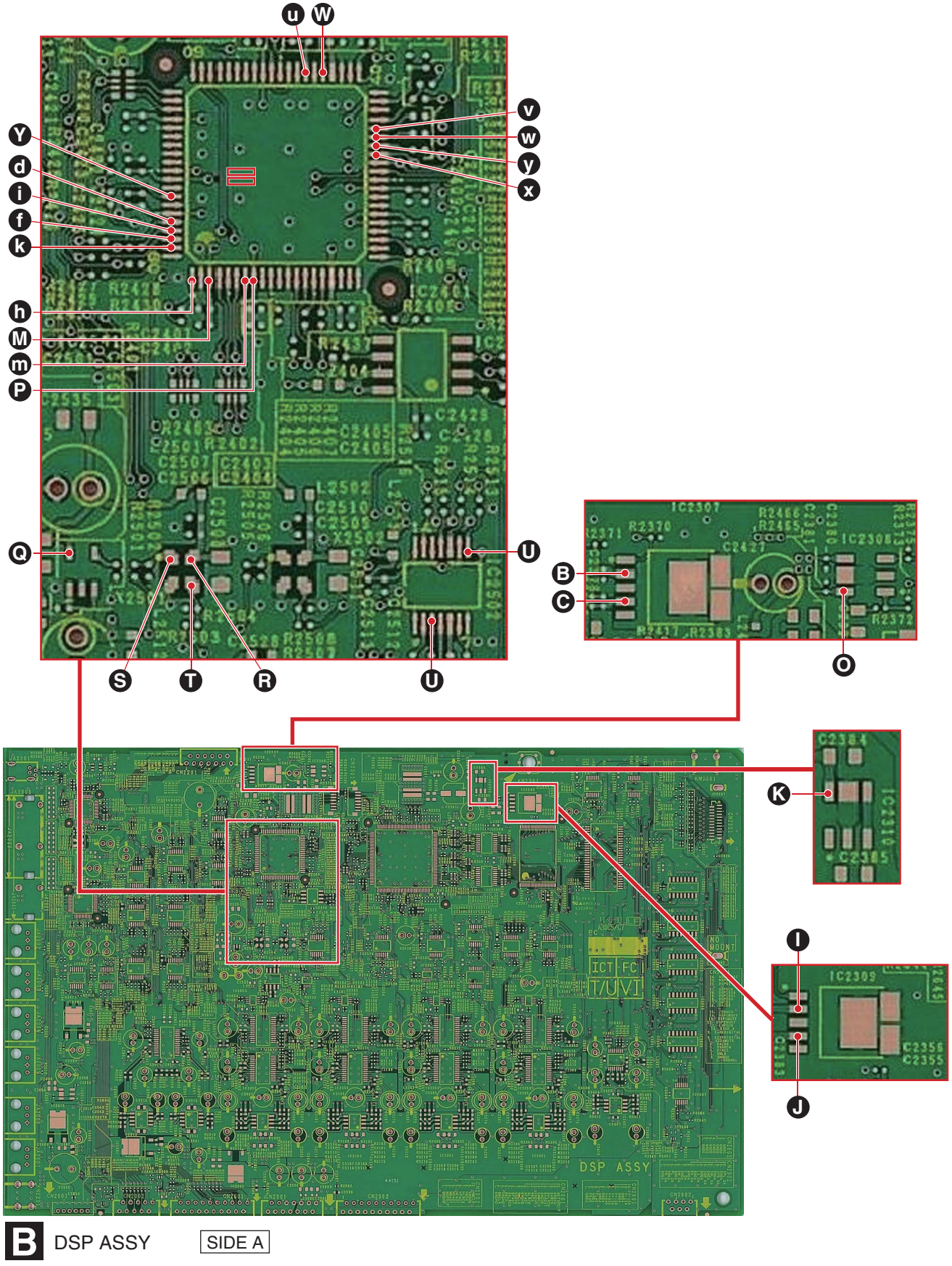


Step 8: 2nd DSP

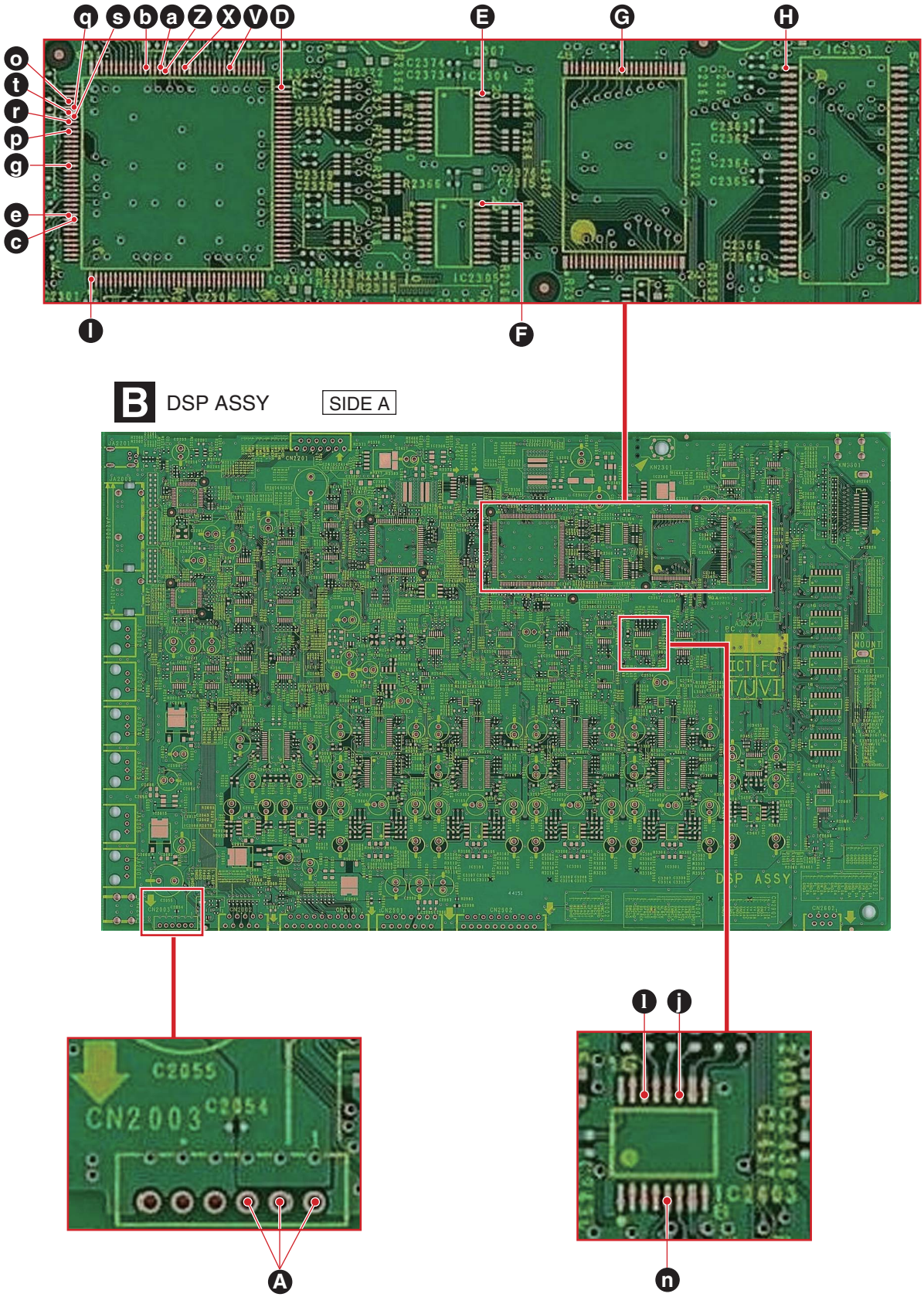


● For the following diagnosis, a digital oscilloscope must be used.

■ Check Points of the DSP Assy (DSP Block)



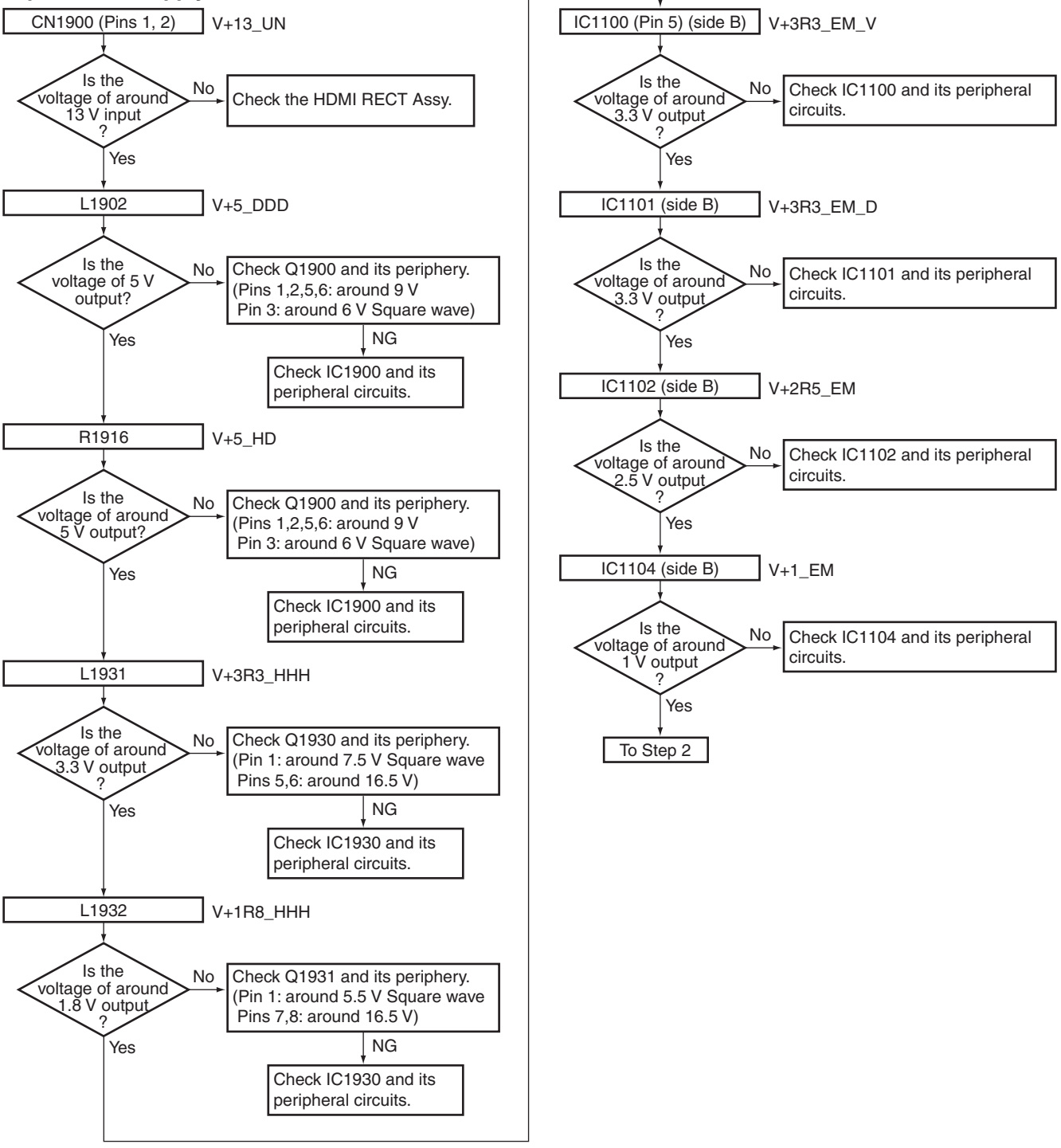
B DSP ASSY SIDE A


q
s
b
a
Z
X
V
D
E
G
H
o
t
r
p
g
e
c
I
F
B DSP ASSY
SIDE A
C2055
CN2003
C2054
A
I
j
n

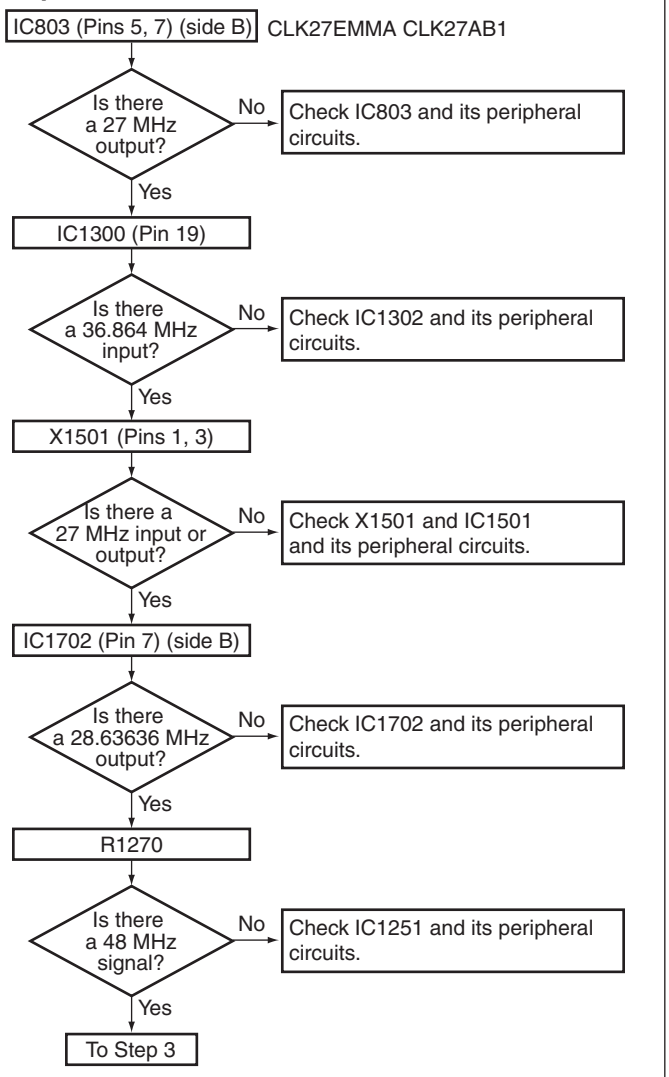
[2] HDMI & DVC Block Troubleshooting

<When no image is displayed after the unit is turned on, the HDMI LED on the front panel lights, and the HDMI or analog signal is input.>
- If conversion between 480i and 480p is not possible, it is most likely that IC800 is in failure. Check its peripheral circuits.
- Assume that the LCRs are neither in poor connection nor damaged.
- Analog video Convert (Ex.: S → COMPONENT) is satisfied by diagnosing the input and output.
- Although diagnosis is assumed to be performed from Side A, the wiring numbers on Side B are also described in the flowchart.
- This shows failure analysis for the HDMI & DVC Block of the DIGITAL MAIN Assy.
- The confirmation of peripheral circuits means mainly a power supply of IC, a sync signal, a existence of the input/output signal, a conduction check and the appearance check of the bridges.

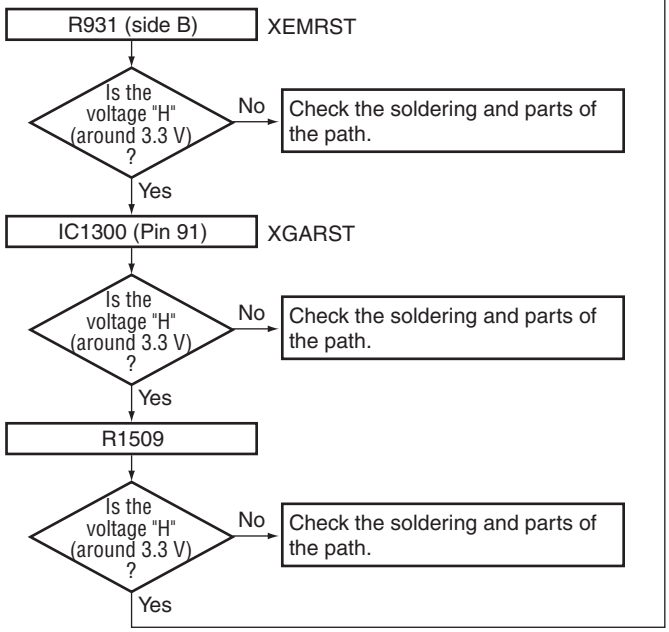
Step 1: Power supply

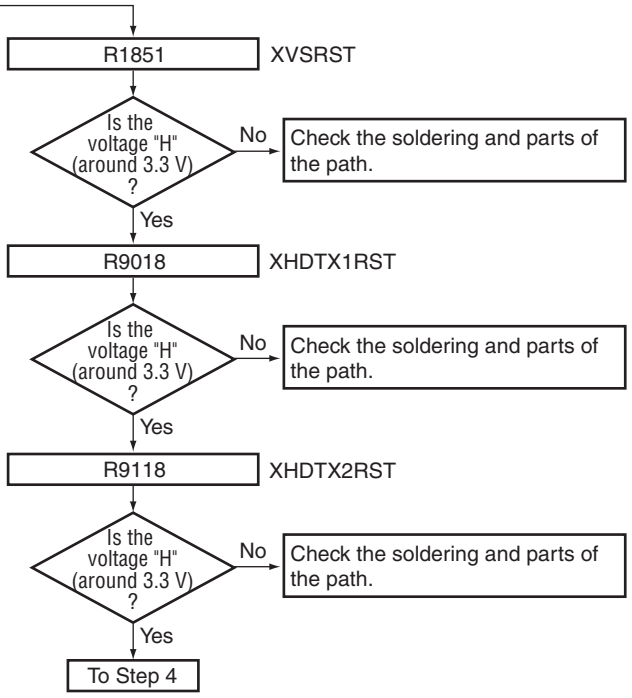


Step 2: X'tal

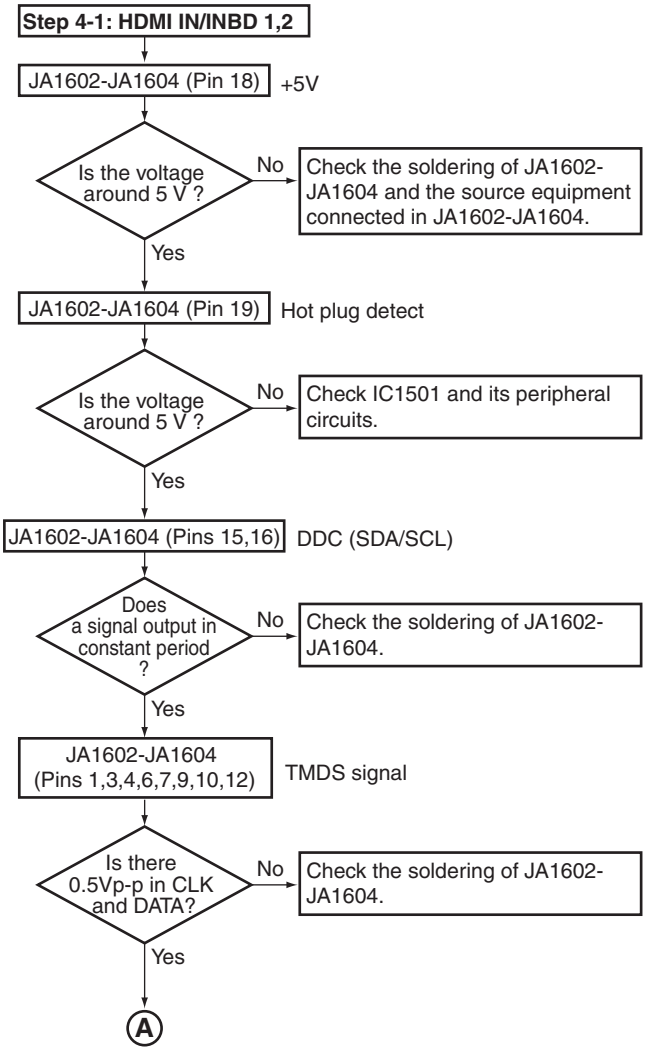


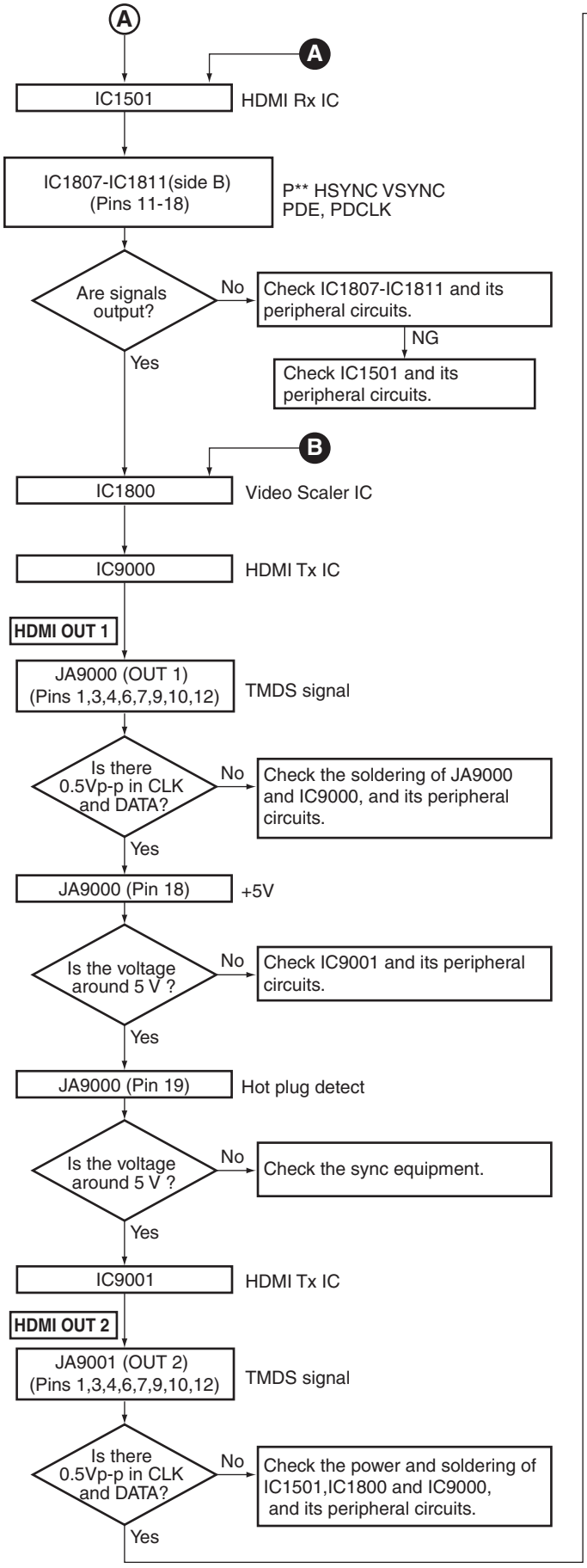
Step 3: RESET

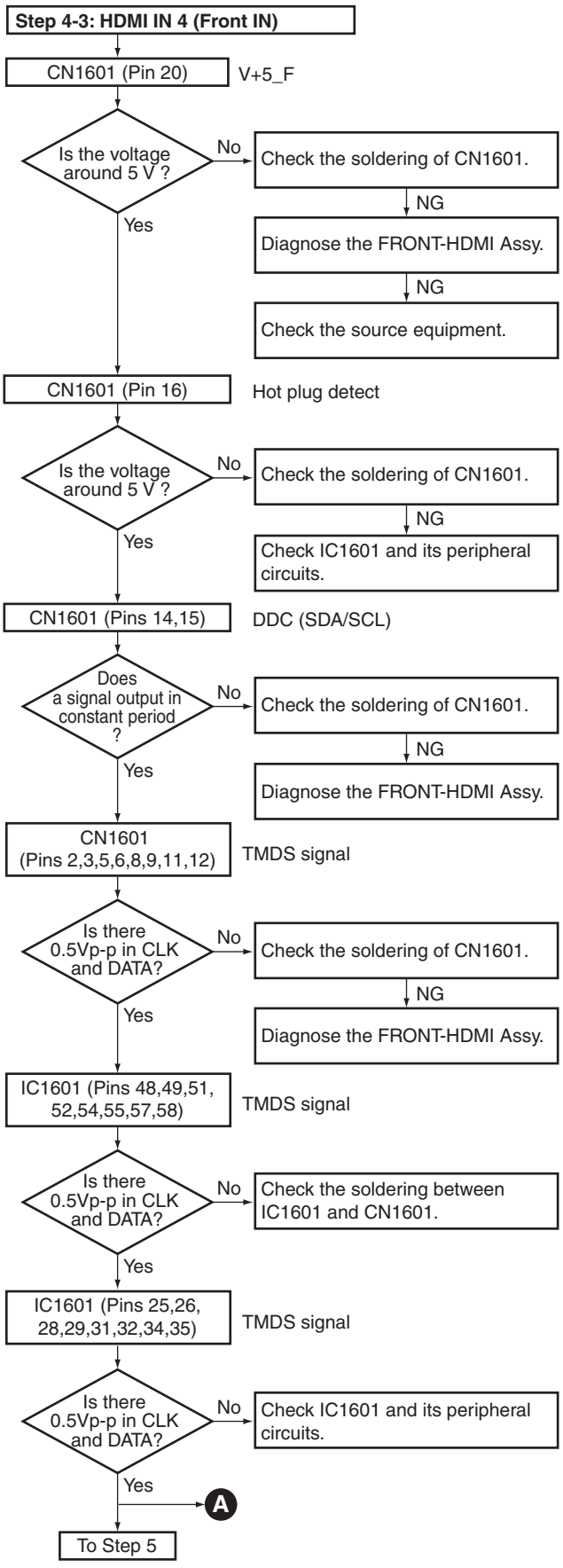


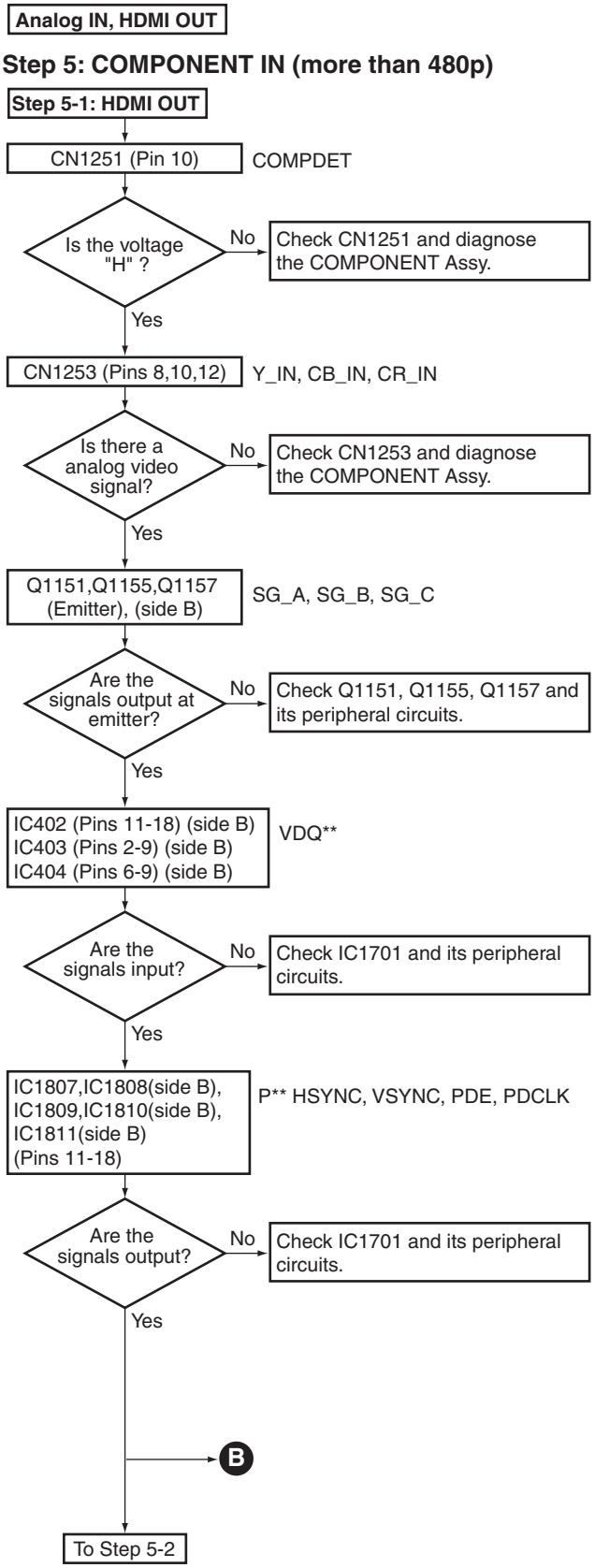


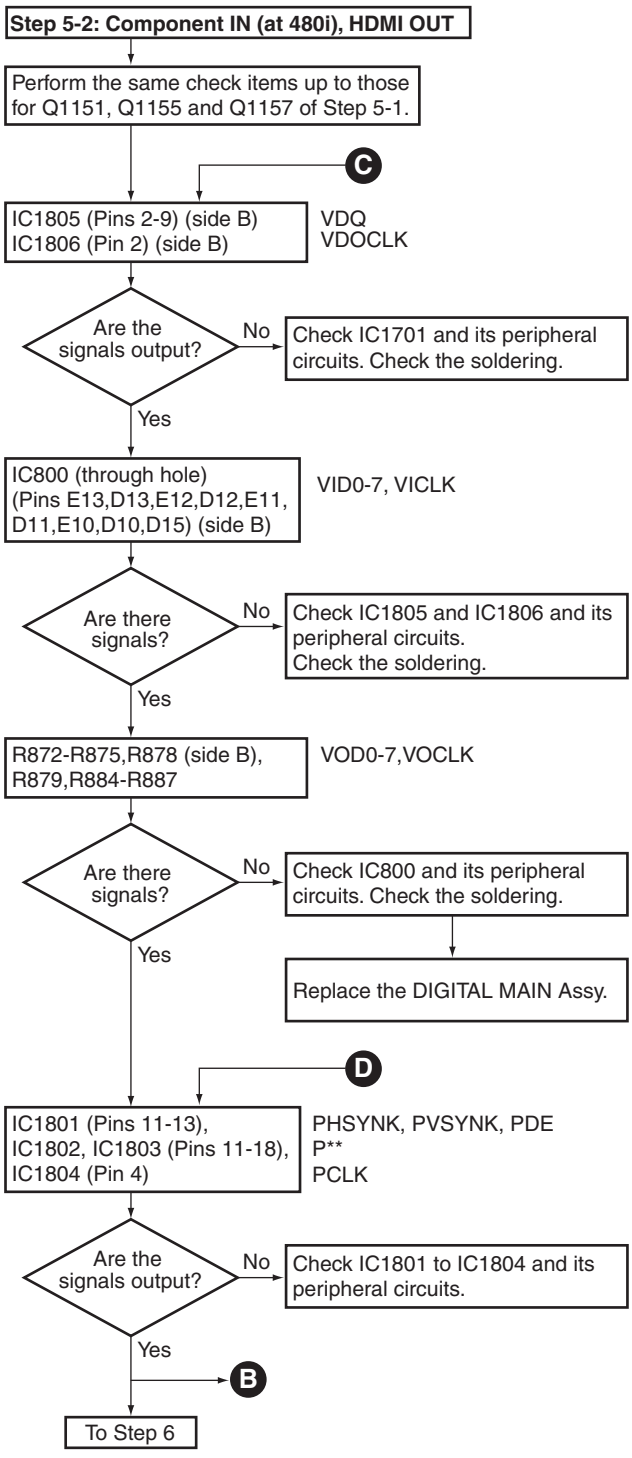
Step 4: HDMI IN, HDMI OUT

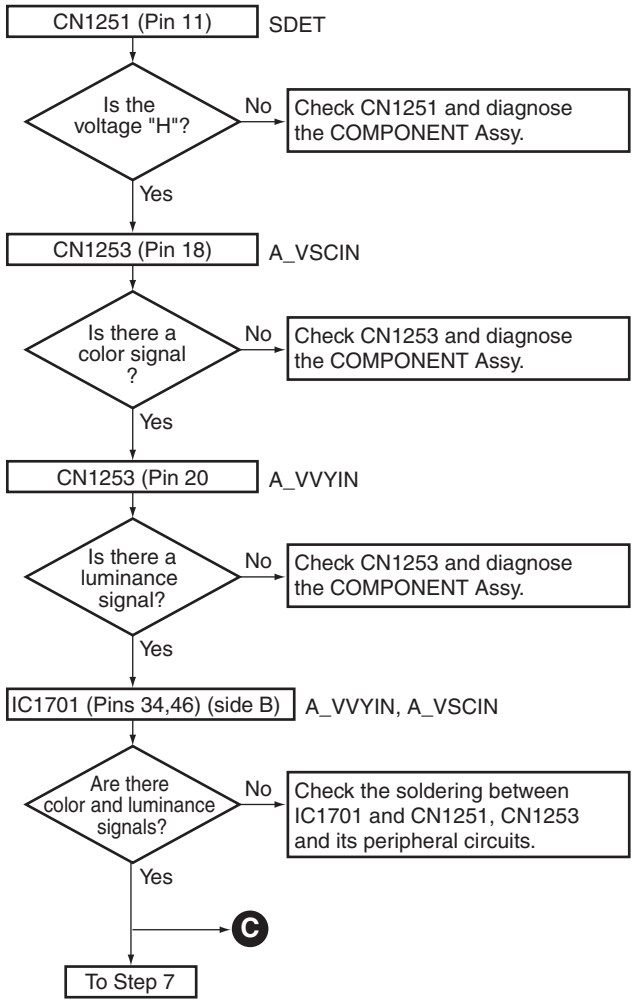


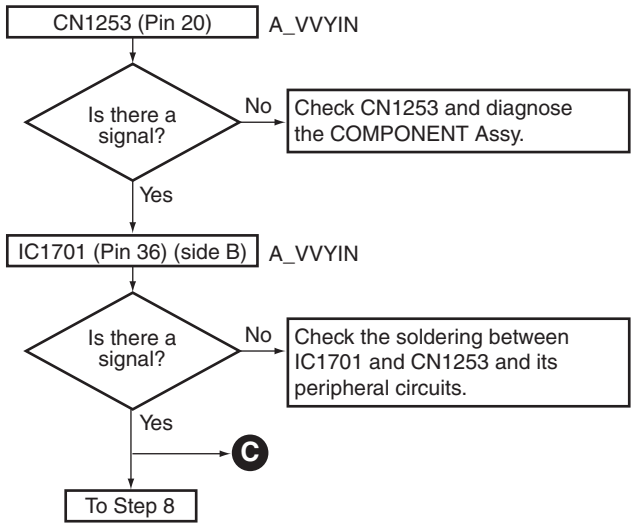

A
A
IC1501
HDMI Rx IC
IC1807-IC1811(side B)
(Pins 11-18)
P** HSYNC VSYNC
PDE, PDCLK
Are signals output?
No
Check IC1807-IC1811 and its peripheral circuits.
NG
Check IC1501 and its peripheral circuits.
Yes
B
IC1800
Video Scaler IC
IC9000
HDMI Tx IC
HDMI OUT 1
JA9000 (OUT 1)
(Pins 1,3,4,6,7,9,10,12)
TMDS signal
Is there 0.5Vp-p in CLK and DATA?
No
Check the soldering of JA9000 and IC9000, and its peripheral circuits.
Yes
JA9000 (Pin 18)
+5V
Is the voltage around 5 V ?
No
Check IC9001 and its peripheral circuits.
Yes
JA9000 (Pin 19)
Hot plug detect
Is the voltage around 5 V ?
No
Check the sync equipment.
Yes
IC9001
HDMI Tx IC
HDMI OUT 2
JA9001 (OUT 2)
(Pins 1,3,4,6,7,9,10,12)
TMDS signal
Is there 0.5Vp-p in CLK and DATA?
No
Check the power and soldering of IC1501,IC1800 and IC9000, and its peripheral circuits.
Yes
JA9001 (Pin 18)
+5V
Is the voltage around 5 V ?
No
Check IC9001 and its peripheral circuits.
Yes
JA9001 (Pin 19)
Hot plug detect
Is the voltage around 5 V ?
No
Check the sync equipment.
Yes
To Step 4-2
Step 4-2: IN 3
JA1601 (Pin 18)
+5V
Is the voltage around 5 V ?
No
Check the soldering of JA1601. Check the source equipment connected in JA1601.
Yes
JA1601 (Pin 19)
Hot plug detect
Is the voltage around 5 V ?
No
Check IC1601 and its peripheral circuits.
Yes
JA1601 (Pins 15,16)
DDC (SDA/SCL)
Does a signal output in constant period ?
No
Check the soldering of JA1601 and the path.
Yes
JA1601
(Pins 1,3,4,6,7,9,10,12)
TMDS signal
Is there 0.5Vp-p in CLK and DATA?
No
Check the soldering of JA1601 and the path.
Yes
IC1601 (Pins 25,26, 28,29,31,32,34,35)
TMDS signal
Is there 0.5Vp-p in CLK and DATA?
No
Check IC1601 and its peripheral circuits.
Yes
A
To Step 4-3


Step 4-3: HDMI IN 4 (Front IN)
CN1601 (Pin 20)
V+5_F
Is the voltage around 5 V ?
No
Check the soldering of CN1601.
NG
Diagnose the FRONT-HDMI Assy.
NG
Check the source equipment.
Yes
CN1601 (Pin 16)
Hot plug detect
Is the voltage around 5 V ?
No
Check the soldering of CN1601.
NG
Check IC1601 and its peripheral circuits.
Yes
CN1601 (Pins 14,15)
DDC (SDA/SCL)
Does a signal output in constant period ?
No
Check the soldering of CN1601.
NG
Diagnose the FRONT-HDMI Assy.
Yes
CN1601 (Pins 2,3,5,6,8,9,11,12)
TMDS signal
Is there 0.5Vp-p in CLK and DATA?
No
Check the soldering of CN1601.
NG
Diagnose the FRONT-HDMI Assy.
Yes
IC1601 (Pins 48,49,51, 52,54,55,57,58)
TMDS signal
Is there 0.5Vp-p in CLK and DATA?
No
Check the soldering between IC1601 and CN1601.
Yes
IC1601 (Pins 25,26, 28,29,31,32,34,35)
TMDS signal
Is there 0.5Vp-p in CLK and DATA?
No
Check IC1601 and its peripheral circuits.
Yes
A
To Step 5


Analog IN, HDMI OUT
Step 5: COMPONENT IN (more than 480p)
Step 5-1: HDMI OUT
CN1251 (Pin 10)
COMPDET
Is the voltage "H" ?
No
Check CN1251 and diagnose the COMPONENT Assy.
Yes
CN1253 (Pins 8,10,12)
Y_IN, CB_IN, CR_IN
Is there a analog video signal?
No
Check CN1253 and diagnose the COMPONENT Assy.
Yes
Q1151,Q1155,Q1157 (Emitter), (side B)
SG_A, SG_B, SG_C
Are the signals output at emitter?
No
Check Q1151, Q1155, Q1157 and its peripheral circuits.
Yes
IC402 (Pins 11-18) (side B)
IC403 (Pins 2-9) (side B)
IC404 (Pins 6-9) (side B)
VDQ**
Are the signals input?
No
Check IC1701 and its peripheral circuits.
Yes
IC1807,IC1808(side B),
IC1809,IC1810(side B),
IC1811(side B)
(Pins 11-18)
P** HSYNC, VSYNC, PDE, PDCLK
Are the signals output?
No
Check IC1701 and its peripheral circuits.
Yes
B
To Step 5-2


Step 5-2: Component IN (at 480i), HDMI OUT
Perform the same check items up to those for Q1151, Q1155 and Q1157 of Step 5-1.
C
IC1805 (Pins 2-9) (side B)
IC1806 (Pin 2) (side B)
VDQ
VDOCLK
Are the signals output?
No
Check IC1701 and its peripheral circuits. Check the soldering.
Yes
IC800 (through hole) (Pins E13,D13,E12,D12,E11, D11,E10,D10,D15) (side B)
VID0-7, VICLK
Are there signals?
No
Check IC1805 and IC1806 and its peripheral circuits. Check the soldering.
Yes
R872-R875,R878 (side B), R879,R884-R887
VOD0-7,VOCLK
Are there signals?
No
Check IC800 and its peripheral circuits. Check the soldering.
Yes
Replace the DIGITAL MAIN Assy.
D
IC1801 (Pins 11-13), IC1802, IC1803 (Pins 11-18), IC1804 (Pin 4)
PHSYNK, PVSYNK, PDE
P**
PCLK
Are the signals output?
No
Check IC1801 to IC1804 and its peripheral circuits.
Yes
B
To Step 6

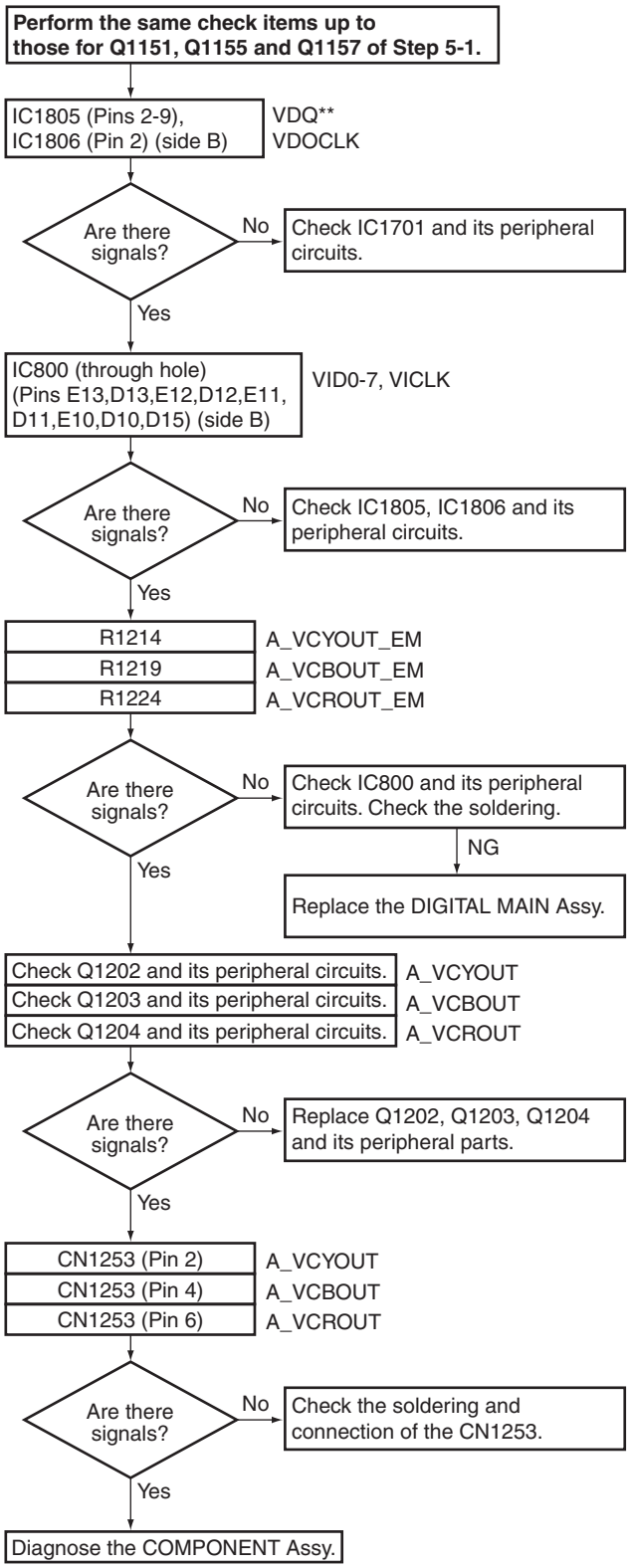

Step 6: S IN, HDMI OUT
CN1251 (Pin 11)
SDET
Is the voltage "H"?
No
Check CN1251 and diagnose the COMPONENT Assy.
Yes
CN1253 (Pin 18)
A_VSCIN
Is there a color signal ?
No
Check CN1253 and diagnose the COMPONENT Assy.
Yes
CN1253 (Pin 20
A_VVYIN
Is there a luminance signal?
No
Check CN1253 and diagnose the COMPONENT Assy.
Yes
IC1701 (Pins 34,46) (side B)
A_VVYIN, A_VSCIN
Are there color and luminance signals?
No
Check the soldering between IC1701 and CN1251, CN1253 and its peripheral circuits.
Yes
C
To Step 7


Step 7: COMPOSITE IN, HDMI OUT
CN1253 (Pin 20)
A_VVYIN
Is there a signal?
No
Check CN1253 and diagnose the COMPONENT Assy.
Yes
IC1701 (Pin 36) (side B)
A_VVYIN
Is there a signal?
No
Check the soldering between IC1701 and CN1253 and its peripheral circuits.
Yes
C
To Step 8

DVC ON, Analog IN, OUT

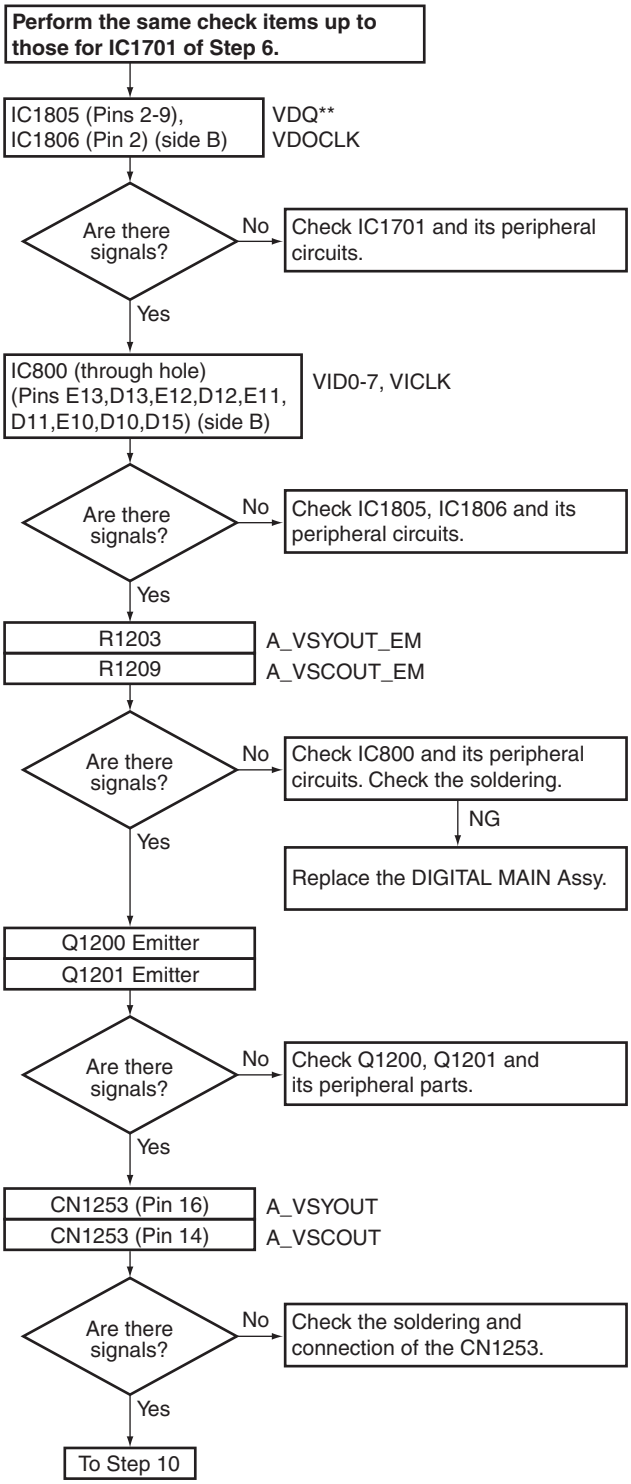
Step 8: COMPONENT IN COMPONENT OUT

Note: When the connection is Composite S OUT, refer to the diagnose of IC800 and later in steps 9 and 10.



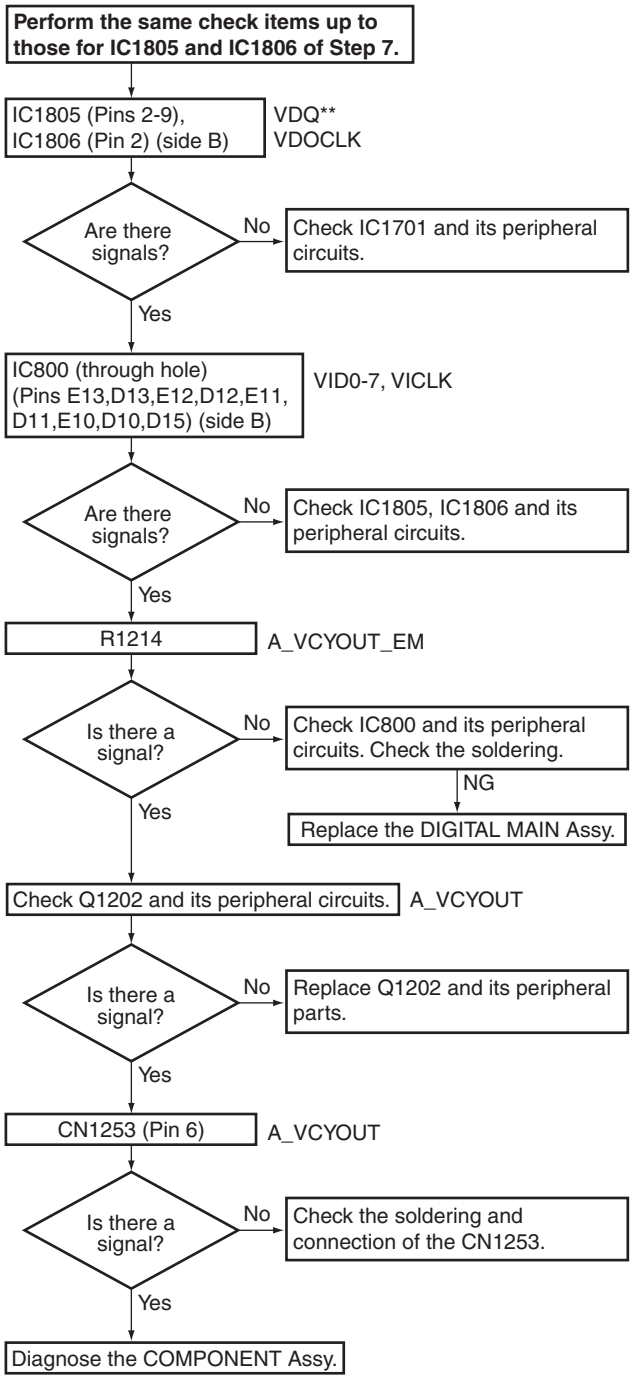
Step 9: S IN, S OUT

Note: When the connection is Composite OUT and Component OUT, refer to the diagnose of IC800 and later in steps 8 and 10.



Step 10: COMPOSITE IN, COMPOSITE OUT (at DVC ON)

Note: When the connection is S Component OUT, refer to the diagnose of IC800 and later in steps 8 and 9.



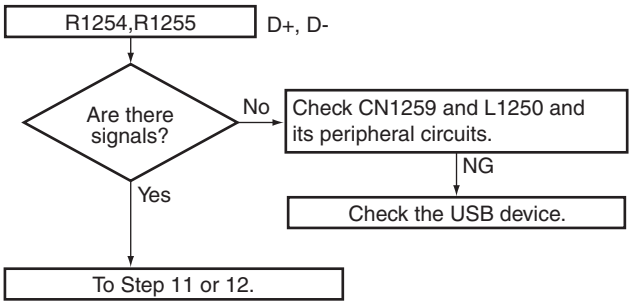
Step 11: GUI Composite/S/Component OUT

Diagnose the IC800 (through hole) of Composite/S/Component OUT and later.

Step 12: GUI HDMI OUT

Go to **D**.

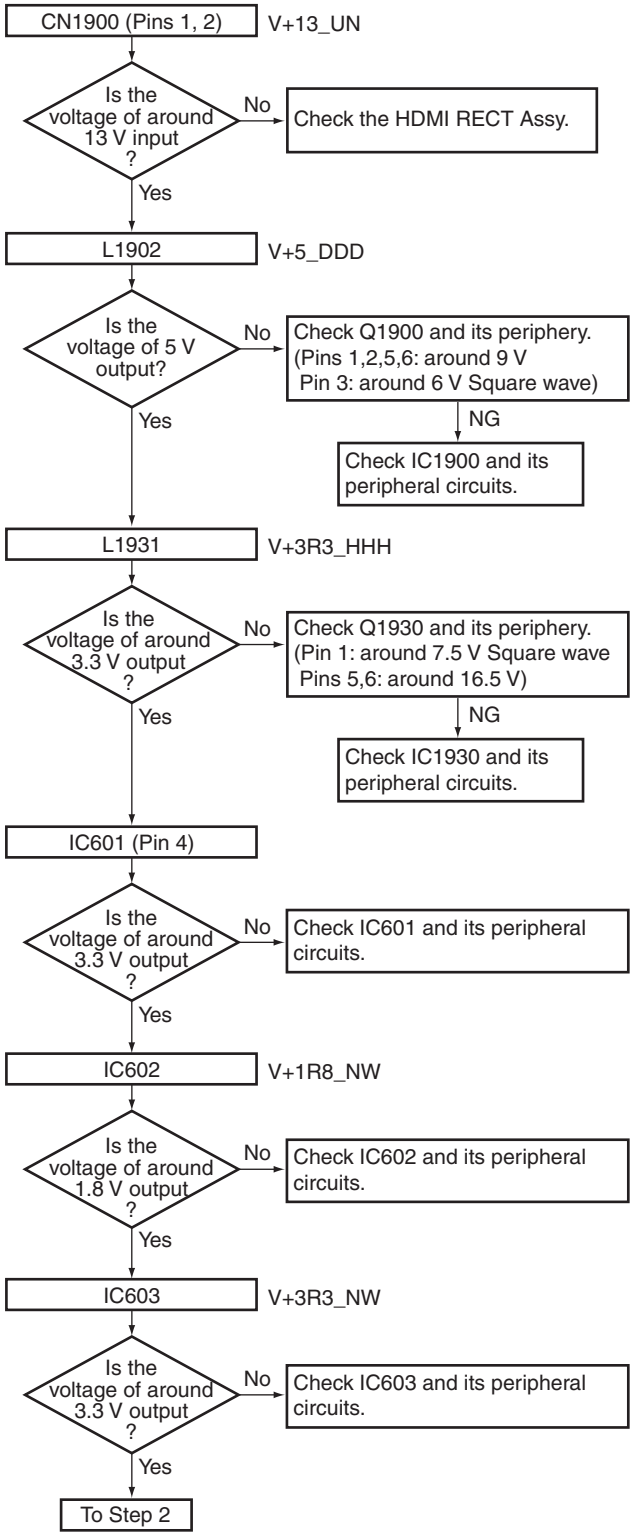
Step 13: JPEG (USB)



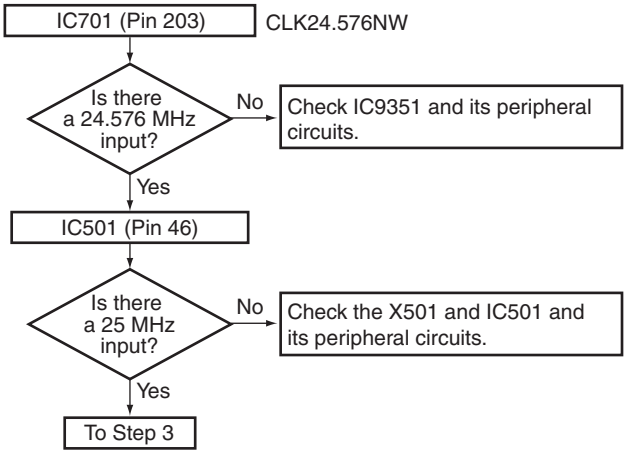
[3] NW (NetWork) Block Troubleshooting

- Assume that the LCRs are neither in poor connection nor damaged.
- Although diagnosis is assumed to be performed from Side A, the wiring numbers on Side B are also described in the flowchart.
- This shows failure analysis for the NW (Network) Block of the DIGITAL MAIN Assy.
- The confirmation of peripheral circuits means mainly a power supply of IC, a sync signal, a existence of the input/output signal, a conduction check and the appearance check of the bridges.

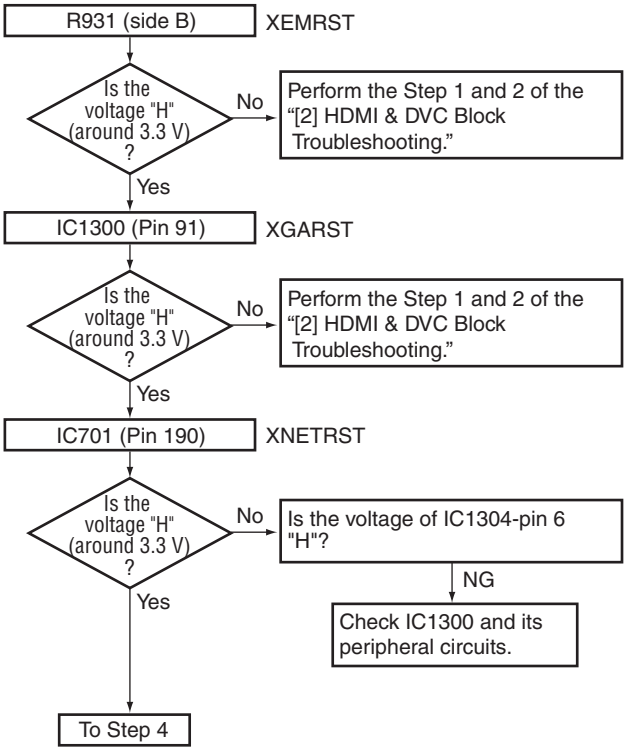
Step 1: Power supply



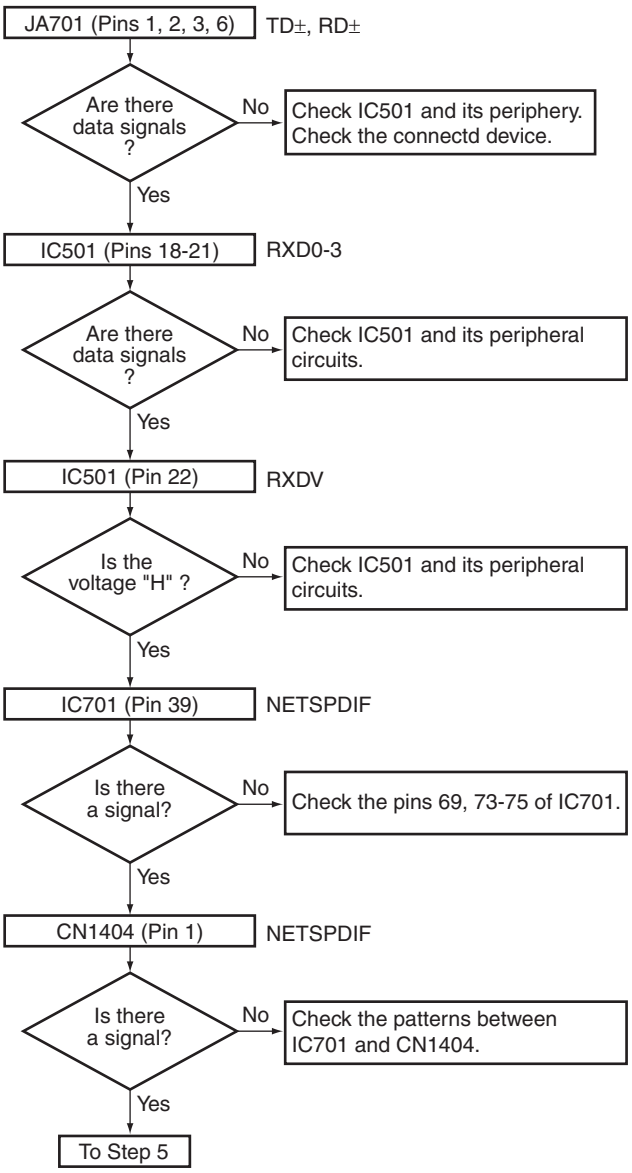
Step 2: X'tal



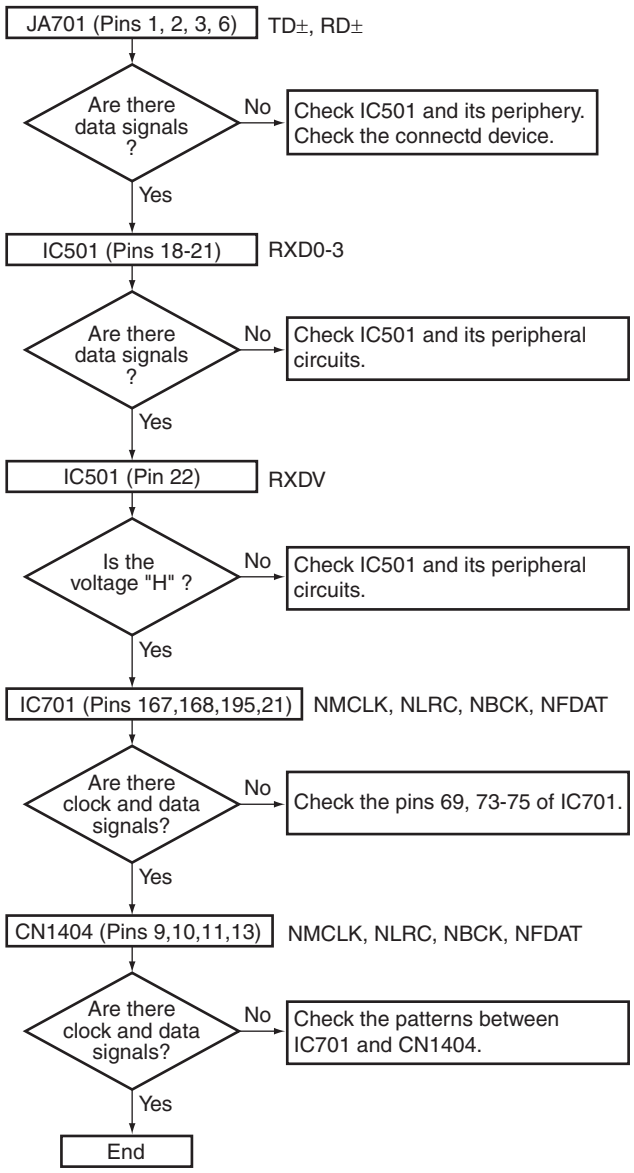
Step 3: RESET



Step 4: NW (NetWork) Audio (MAIN)



Step 5: NW (NetWork) Audio (ZONE 2, 3)



5.2 CIRCUIT DESCRIPTION

[1] Protection Circuit Process List

B REG Power Supply

Item	Purpose	Detection Method	Status of Equipment	Warning Indication	Remarks
B REG power supply overheat detection	Detects overheat of transistor(s) in B REG power supply circuit	Detects when posistor detection temperature exceeds 120°C and BTMP port becomes "H". (IC8001 85pin)	Flashes "OVERHEAT". Shuts down at continuation for more than 3 seconds. LED indicator continues blinking.	Blinks STANDBY/ON LED indicator.	Recoverable by power-on 1minute after shut down.
B REG power supply failure detection	Detect abnormal voltage drop when B REG transistor(s) becomes failure	Detects output voltage of B REG power circuit decreases below 38V and BERR port becomes "L". (IC8001 84pin)	Shuts down	Blinks ADVANCED MCACC LED	Recoveable by only DC DETECT cancel. Refer to “How to Enter Release Mode” next page.

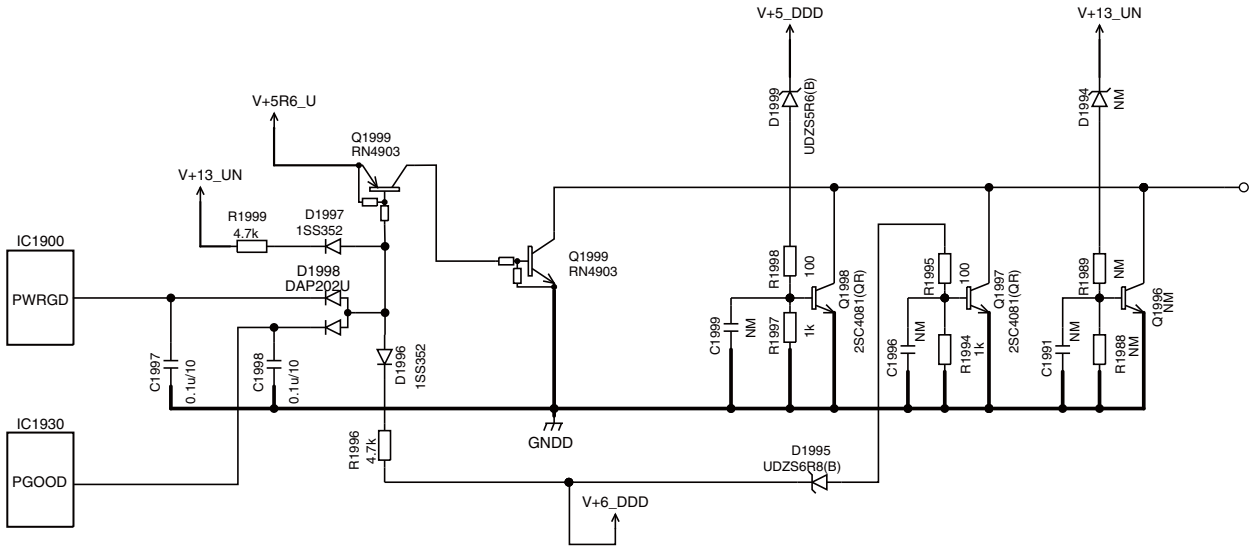
Amplifier Circuit

Item	Purpose	Detection Method	Status of Equipment	Warning Indication	Remarks
Overheat detection	Detects MOS FET temperature of amplifier output stage	Detects when TEMPERR PORT becomes "L" in case of the detecting temperature exceeds 95°C or rapid change by short cuicuit of speaker terminals. (IC8001 72pin)	Shuts down.	Blinks STANDBY/ON LED indicator.	Recoverable by power-on 1minute after shutdown
		Detects when MAXTEMP port becomes below 3.1V at NTC Thermistor detect circuit. (IC8001 2pin)	Fan rotates below 3.1V.		FAN control 3.1V>MAXTEMP>1.9V: Low rotation 1.9V>MAXTEMP: High rotation
DC detection	Detects DC of amplifier output (After LPF)	Detects when SP output exceeds DC ± 7V and DCERR port becomes "L". (IC8001 80pin)	MUTE on and Speaker Relay off. Flashes “AMP ERR”. Shuts down when abnormality continues for more than 3 seconds.	Blinks ADVANCED MCACC LED	In case of detecting DC abnormality during power-on sequence after the DC was once detected. Recoveable by only DC DETECT cancel. Refer to “How to Enter Release Mode” next page.
			MUTE on and Speaker Relay off. Flashes “AMP ERR”. Shuts down when abnormality continues for more than 3 seconds.	Blinks STANDBY/ON LED indicator.	In case of detecting DC abnormality during normal operation. Recoverable by power-on after 1 minute.
Fan abnormality detection	Detects a Fan not rotating by loose connector or Fan lock when controling the Fan rotation	Detects when FANDET port becomes "L". (IC8001 87pin)	Flashes "FAN STOP" Shuts down when abnormality continues for more than 3 seconds.	Blinks PQLS LED	Recoverable by power-on
Zobel detection	Protects overcurrent by Zobel Resistance when high power output of higher frequency continued	Detects OLERR port becomes "L". (IC8001 71pin)	Shuts down	Blinks PHASE CONTROL LED	Recoverable by power-on
Overcurrent detection	Protects overcurrent of MOS FET in output stage when overcurrent flows at the output stage	Detects OLERR port becomes "L". (IC8001 71pin)	Shuts down	Blinks PHASE CONTROL LED	Recoverable by power-on
Low Voltage detection (Amplifier power supply)	Detects low voltage when amplifier power supply voltage (normally ± 64V) becomes below ± 42V	Detects OLERR port becomes "L". (IC8001 71pin)	Shuts down	Blinks PHASE CONTROL LED	Recoverable by power-on
Low Voltagae detection (Modulator IC)	Detects low voltage of modulator IC power supply (normally ± 5V) becomes below ± 2 - 3V	No micro-computer detection exists.	No micro-computer control but modulator IC stops by itself.		Recoverable by power-on

DIGITAL MAIN Power Supply Failure Detection

Item	Purpose	Detection Method	Status of Equipment	Warning Indication	Remarks
DIGITAL MAIN power supply failure detection	Detect abnormal voltage in the Digital Power Supply circuit	Detect when XVDDERR port becomes "L" (*1). (IC8001 70pin)	Shuts down	Blinks Center Blue LED	

E DIGITAL MAIN ASSY



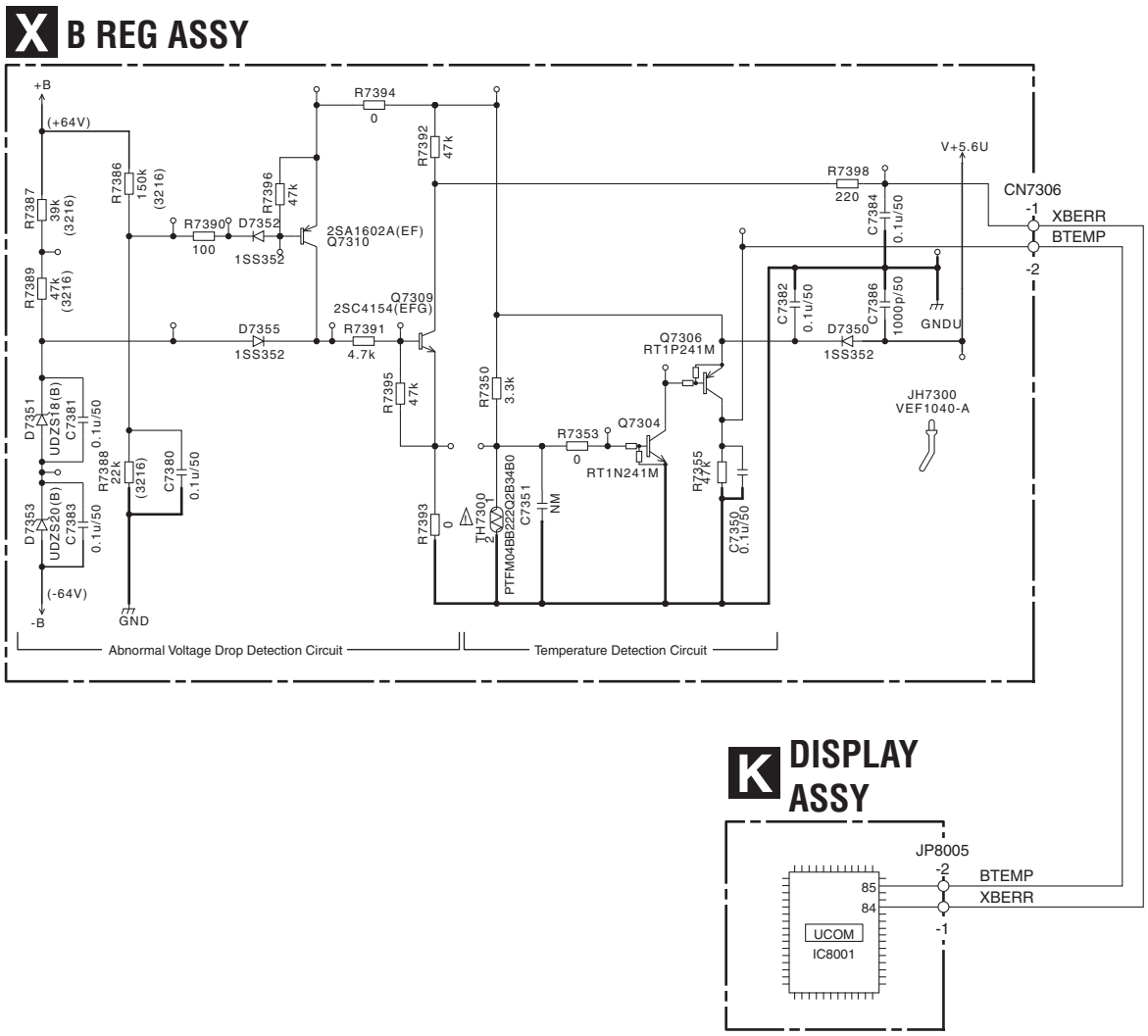
(*1) Conditions when XVDDERR becomes "L"

1. Q1997 turns ON : When V+6DDD becomes higher than the setting value, Q1997 becomes ON.
2. Q1998 turns ON : When V+5_DDD becomes higher than the setting value, Q1998 becomes ON.
3. Q1999 turns ON : When V+13_UN becomes lower than 3.8V, Q1999 becomes ON.
   When PWRGD of IC1900 becomes low (V+5HD becomes lower than the setting value), Q1999 becomes ON.
   When PGOOD of IC1930 becomes low (V+1R8_HHH or V+3R3_HHH drift from the setting value), Q1999 becomes ON.
   When V+6_DDD becomes lower than 3.8V, Q1999 becomes ON.

[How to Enter Release Mode]

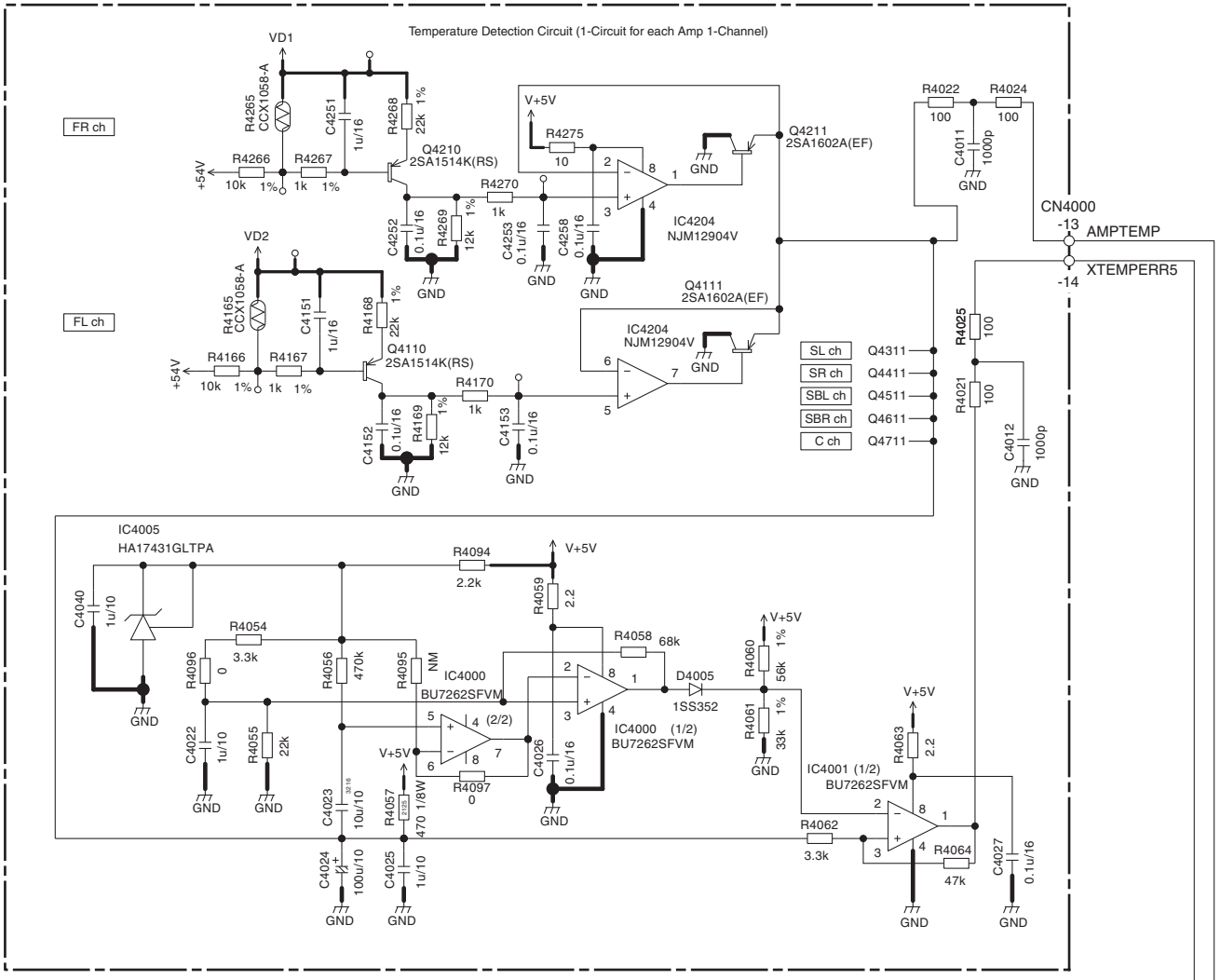
During Standby mode, simultaneously press and hold the "↓" and "MULTI-ZONE ON/OFF" keys for 5 seconds.

B REG Power Supply Overheat Detection
B REG Power Supply Failure Detection

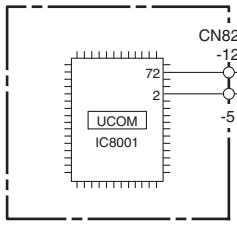


Overheat Detection

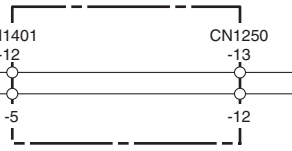
Q ICEPOWER AMP ASSY



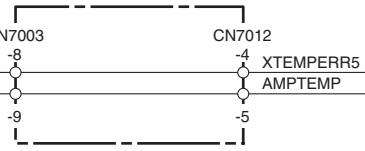
K DISPLAY ASSY



E DIGITAL MAIN ASSY

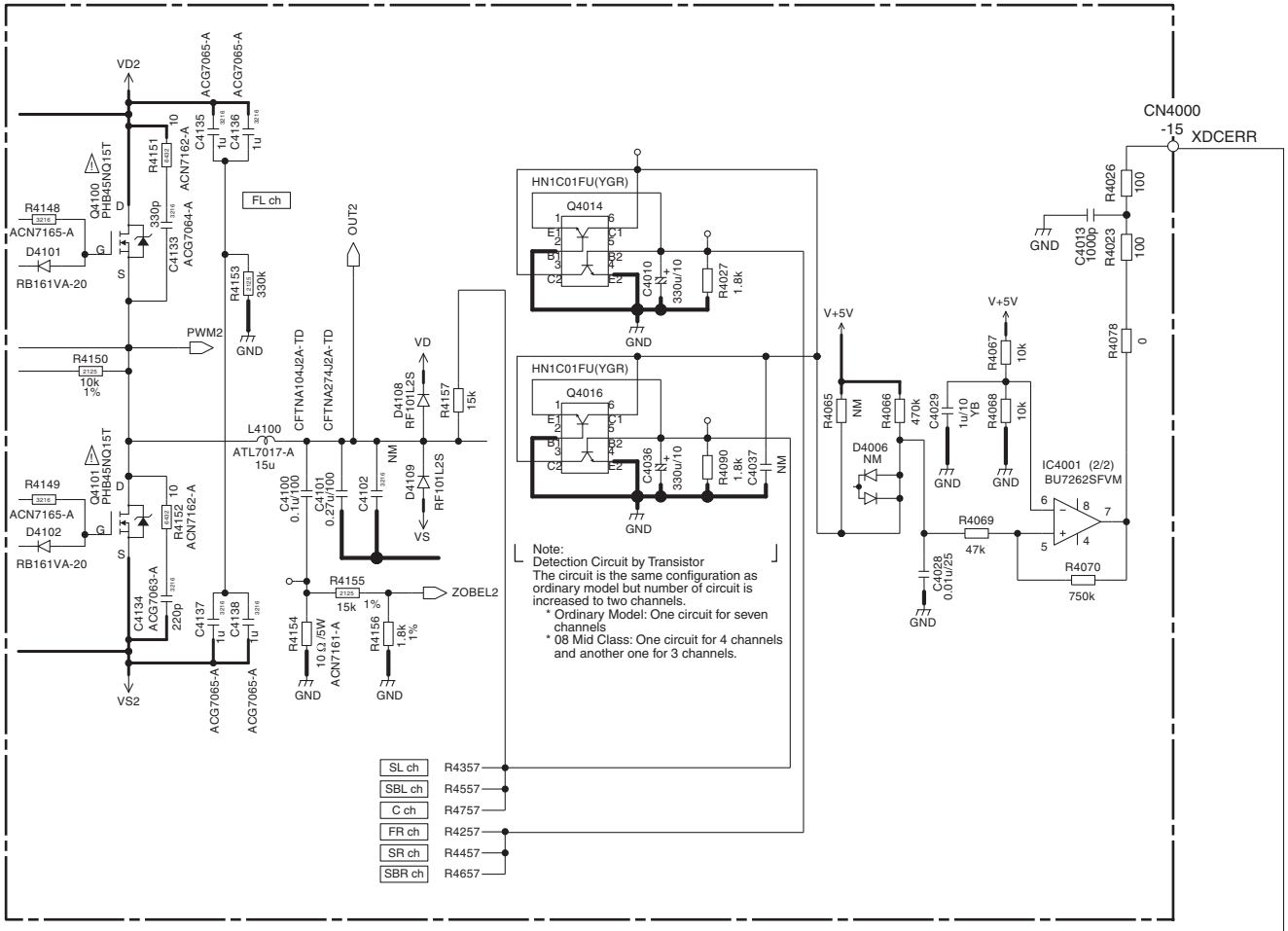


F INTERFACE ASSY

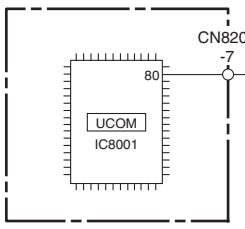


DC Detection

Q ICE POWER AMP ASSY

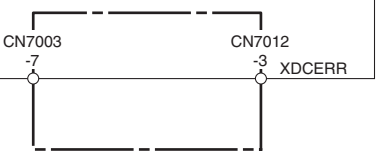


K DISPLAY ASSY



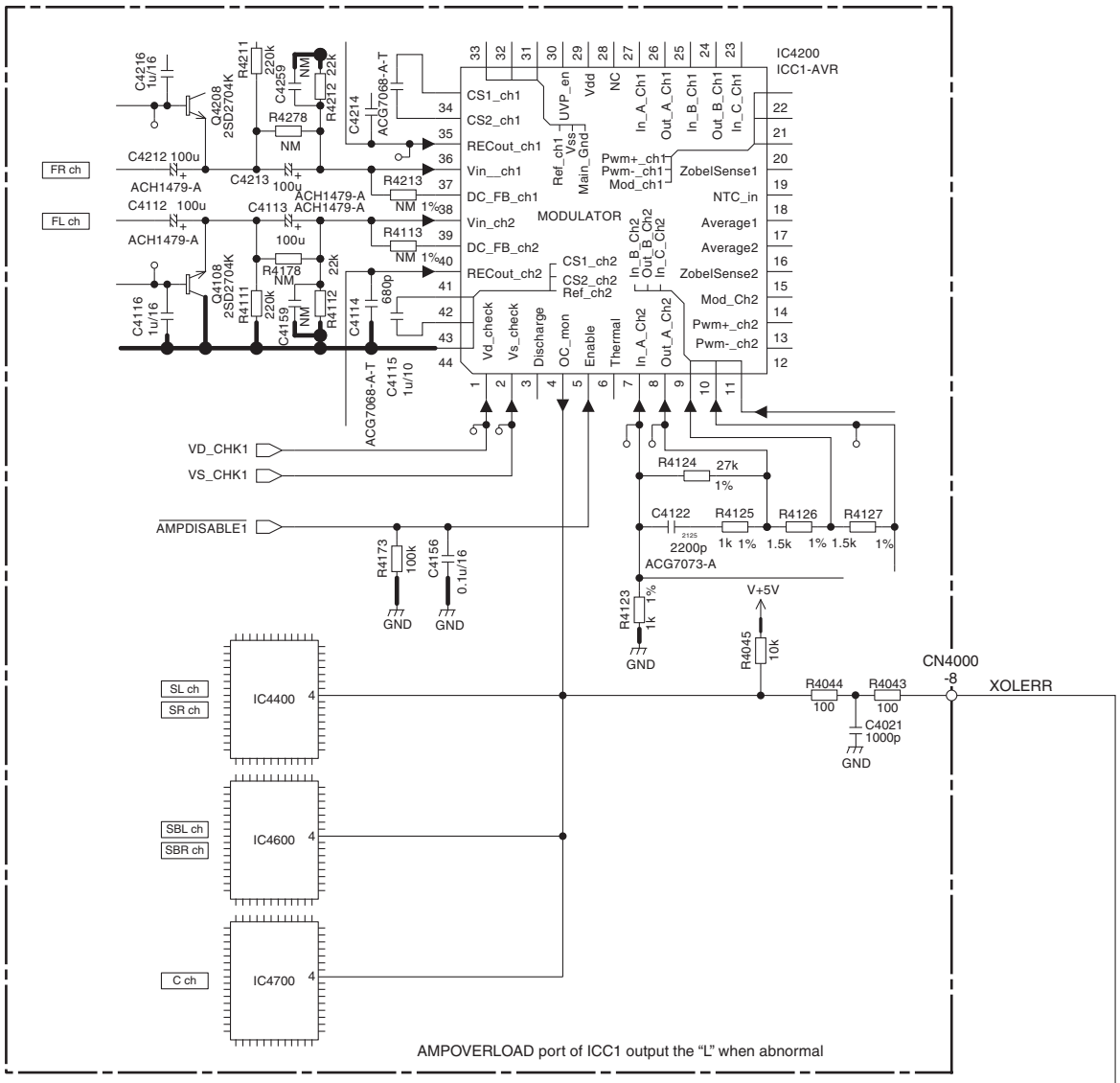
E DIGITAL MAIN ASSY

F INTERFACE ASSY



Zobel Detection
Over Current Detection of MOS FET in Output Stage

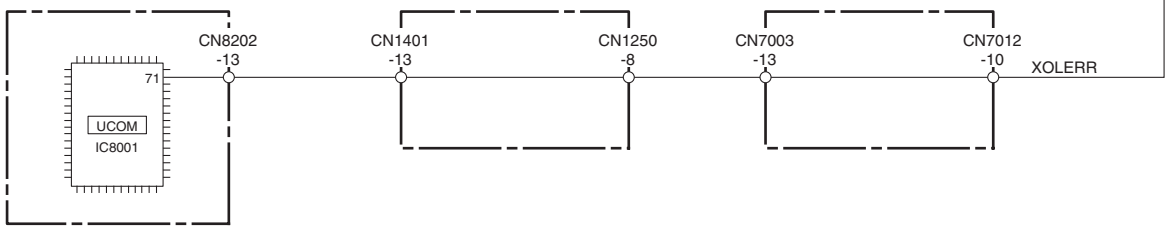
Q ICEPOWER AMP ASSY



K DISPLAY ASSY

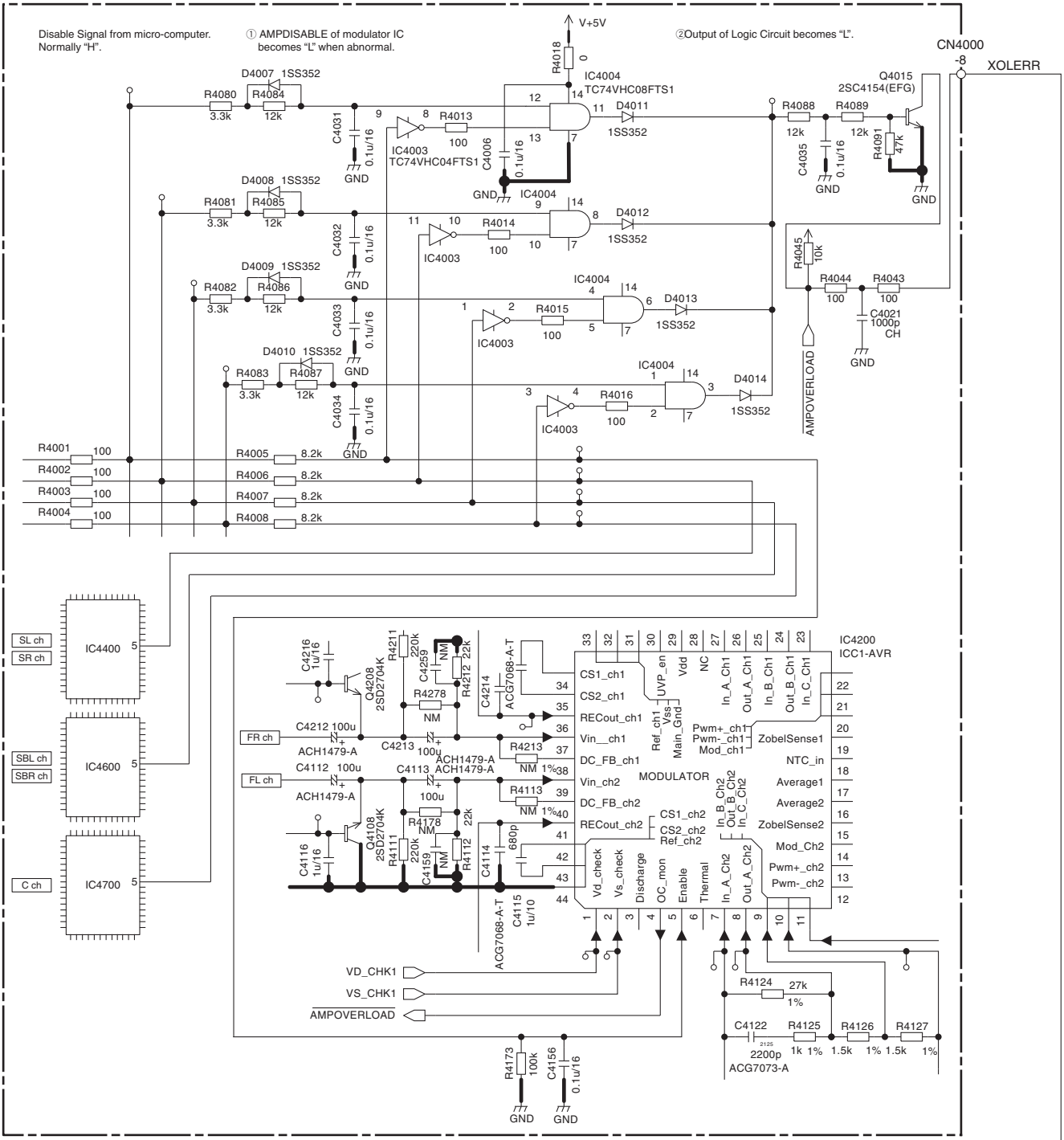
E DIGITAL MAIN ASSY

F INTERFACE ASSY

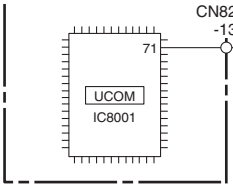


Low Voltage Detection for Amplifier Power Supply

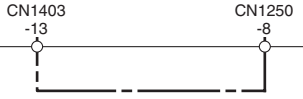
Q ICEPOWER AMP ASSY



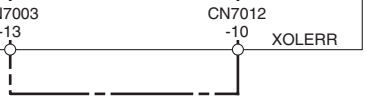
K DISPLAY ASSY



E DIGITAL MAIN ASSY



F INTERFACE ASSY



[2] Error Indications

	FL Display	LED flashes	Status	Timing (sec.)	Description	Remarks
(1)	Over Current	NA	When the overload USB device (over 500 mA) is connected.		The connected USB device is overload.	
(2)	HDCP ERROR	NA	When an HDCP ERROR is detected.	Flashes 5 seconds		Warning indication for HDMI Simplay
(3)	12V TRG ERR	NA	When the 12V trigger circuit is short-circuited.	Flashes	The 12V trigger circuit is short-circuited, and a overcurrent is generated.	
(4)	NA	NA	When the ANALOG INPUT OVER is detected.	Icon lights 1 second	While the Icon lights 1 second, when the ANALOG INPUT OVER is detected again, the Icon continues to light 1 second more from that time. While the Icon lights 1 second, when there is no ANALOG INPUT OVER detection, the Icon stops lighting and returns to normal display.	The Icon "OVER" lights

6. SERVICE MODE
6.1 TEST MODE

[1] Detected protection history

[Purpose]

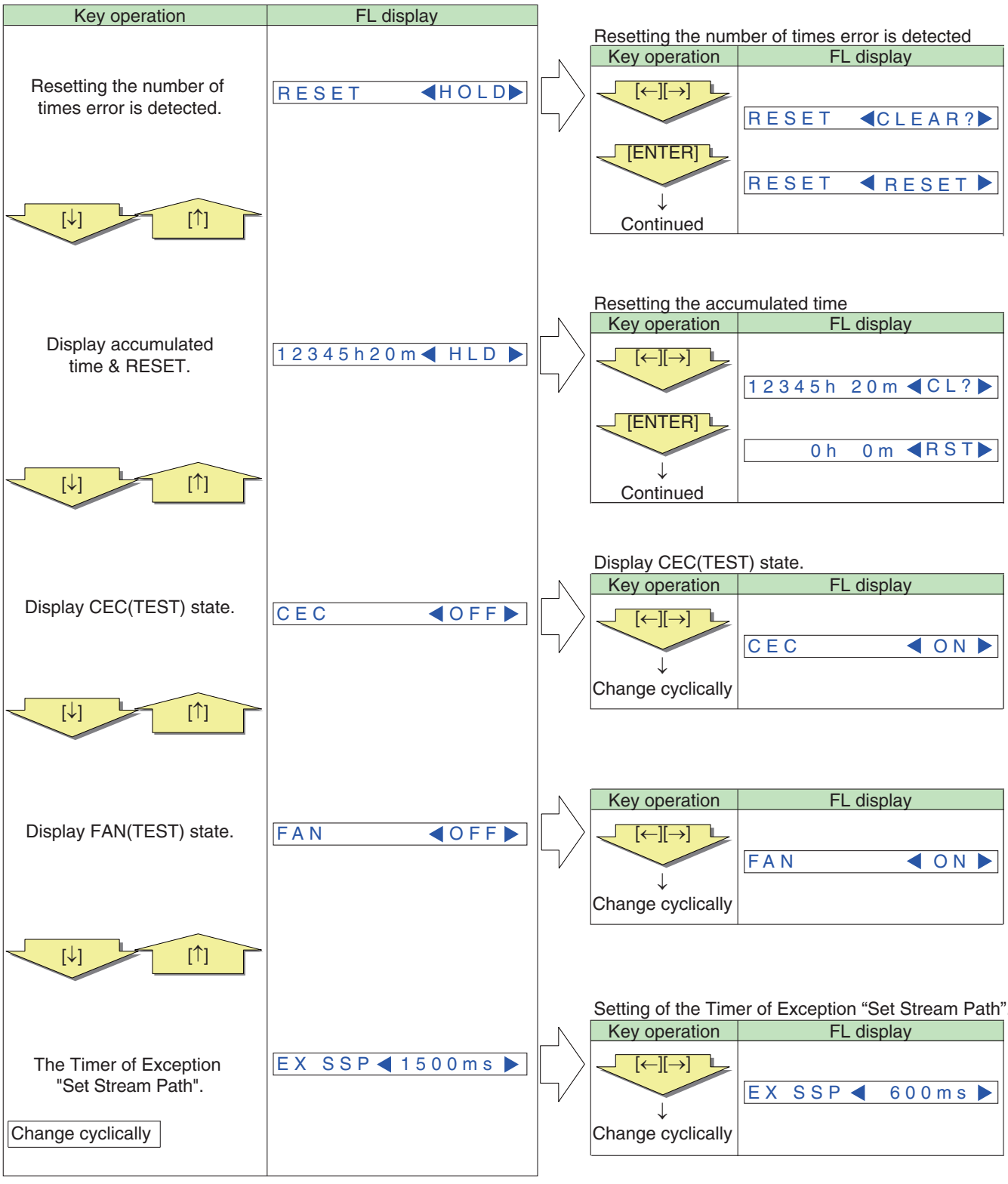
The numbers of detections for various protection processes are displayed.

[How to enter/exit]

Turn off the power to this unit by setting the main volume level to "---dB" and Multi-zone to "OFF".
During Standby mode, simultaneously press and hold "MULTI-ZONE ON/OFF" and "ENTER" keys for 5 seconds to enter this mode.

[Basic operations]

Key operation	FL display
Display number of times DC is detected.	DC : ＊＊＊
[↓] [↑]	
Display number of times OVERLOAD is detected.	OL : ＊＊＊
[↓] [↑]	
Display number of times COMBINATION is detected. (Detects DC and OVERLOAD simultaneously)	COM : ＊＊＊
[↓] [↑]	
Display number of times FAN STOP is detected.	FAN : ＊＊＊
[↓] [↑]	
Display number of times AMP overheat is detected.	STMP : ＊＊＊
[↓] [↑]	
Display number of times Digital Power abnormality is detected.	DERR : ＊＊＊
[↓] [↑]	
Display number of times B REG power supply overheat is detected.	BTMP : ＊＊＊
[↓] [↑]	
Display number of times B REG power supply failure is detected.	BERR : ＊＊＊
[↓] [↑]	



[Description]

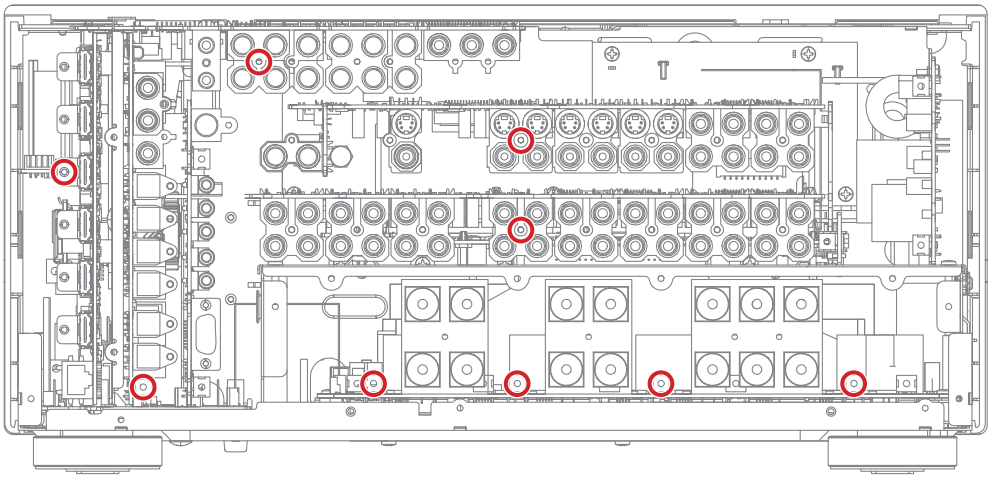
CEC TEST : The function for making the HDMI output terminal to output 1kHz square wave.
If the square wave is output, the CEC line is considered to be normal.

FAN TEST : The function for making the FAN to be forced to rotate.

7. DISASSEMBLY

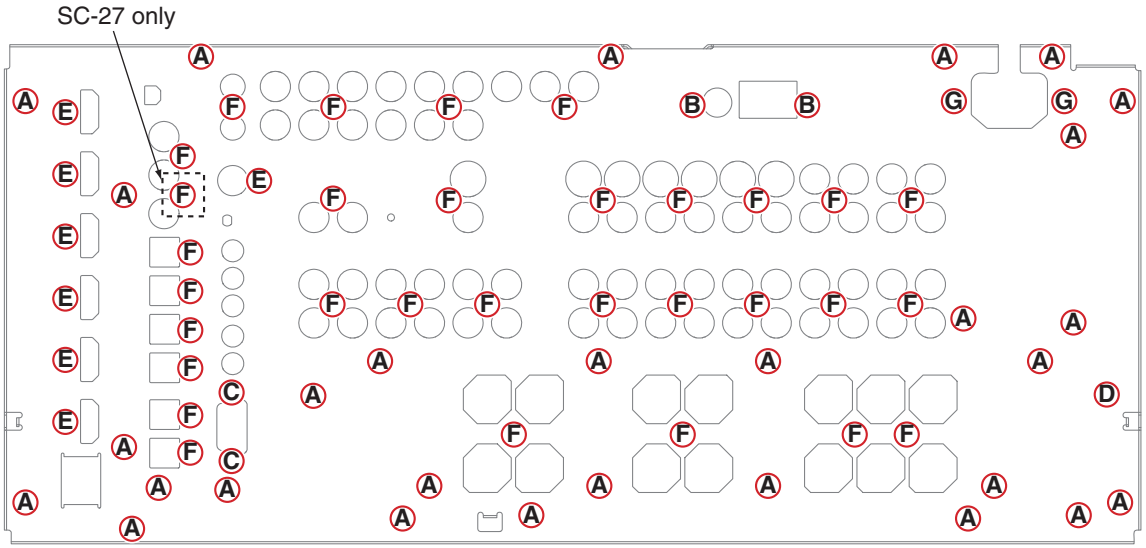
Ground Points

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



Screws for Rear Panel

Ⓐ ABA1011	Ⓑ ABA1207	Ⓒ ABA7078	Ⓓ BBZ30P060FCC	Ⓔ BMZ30P040FTB	Ⓕ BPZ30P080FTB	Ⓖ CBZ30P080FTB
						



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.
(2) For performing the diagnosis shown below, the following jigs for service is required.
- 27P FFC (GGD1588)
- 19P FFC (GGD1589)
- 21P FFC (GGD1590)
- 11P FFC (GGD1650) x 2
- 17P + 19P board to board extension jig cable (GGD1593)
- 24P + 15P board to board extension jig cable (GGD1651)
- 8P PH Housing Assy (GGD1652)
- 5P PH Housing Assy (GGD1594) x 2

(3) Before starting the diagnosis, wait for three minutes until the electricity of the unit is discharged.

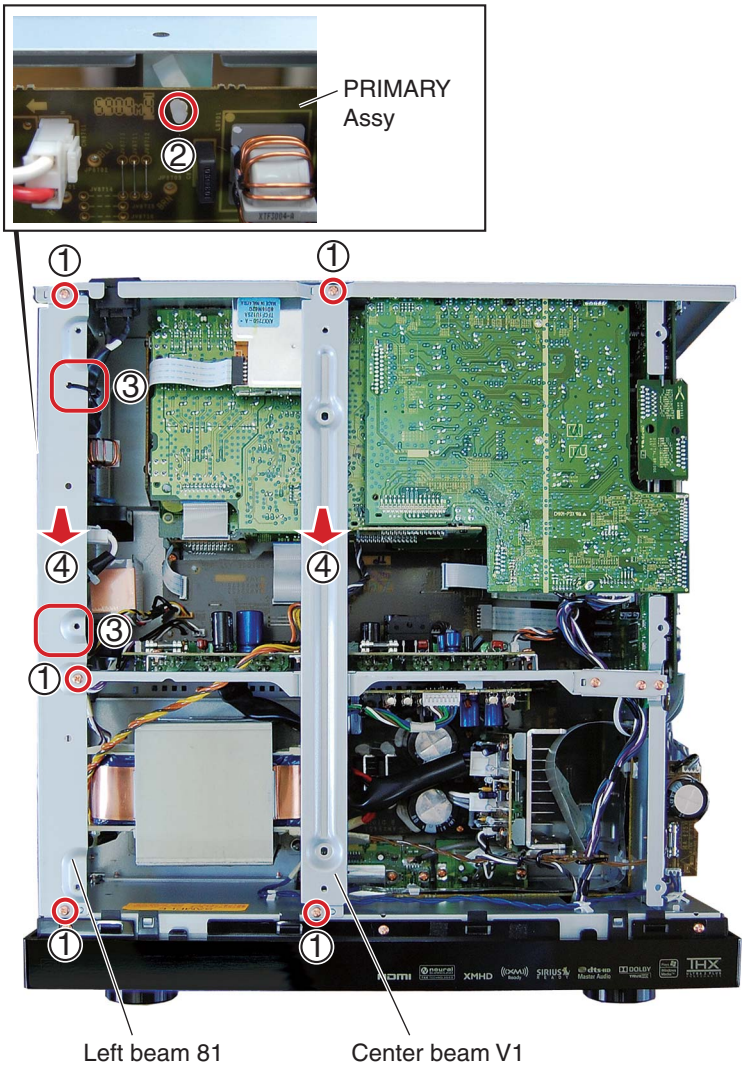
Disassembly

[1] Exterior Section

Remove the bonnet by removing the 22 screws.

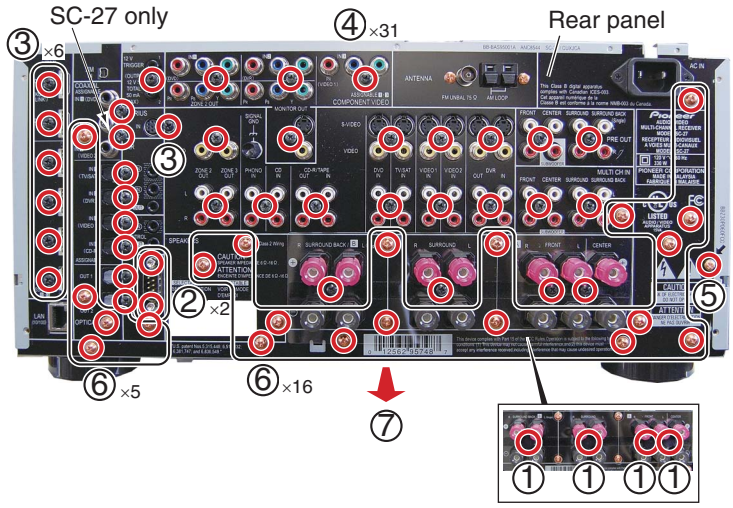
[1-1] Center beam V1, Left beam 81

(1) Remove the five screws. (BBZ30P060FCC)
(2) Release the PCB holder.
(3) Release the binders, as required.
(4) Remove the center beam V1 and left beam 81.



[1-2] Rear panel

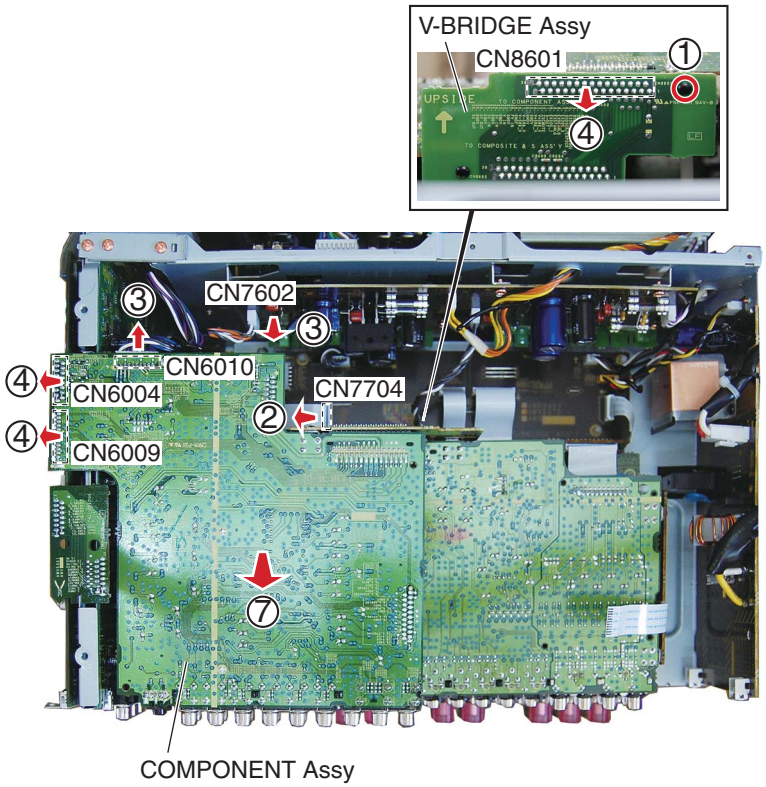
(1) Remove the four cushion circles 14B.
(2) Remove the two hex head screws. (ABA7078)
(3) Remove the seven screws. (BMZ30P040FTB)
(4) Remove the 31 screws. (BPZ30P080FTB)
(for SC-27)
Remove the 30 screws. (BPZ30P080FTB)
(for SC-25, SC-9540)
(5) Remove the one screw. (BBZ30P060FCC)
(6) Remove the 21 screws. (ABA1011)
(7) Remove the rear panel.



[2] PCB Assys

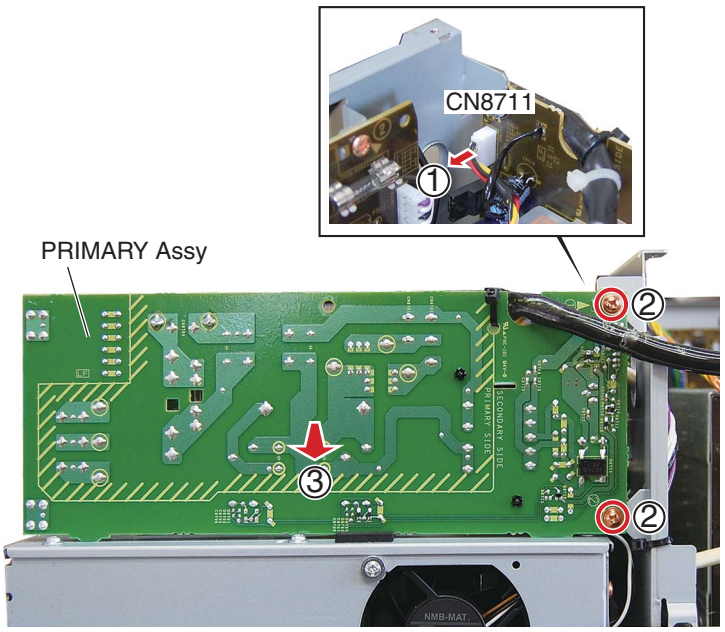
[2-1] COMPONENT Assy

(1) Remove the one push rivet.
(2) Disconnect the one flexible cable.
(3) Disconnect the two connectors.
(4) Disconnect the three B to B connectors.
(5) Remove the COMPONENT Assy.



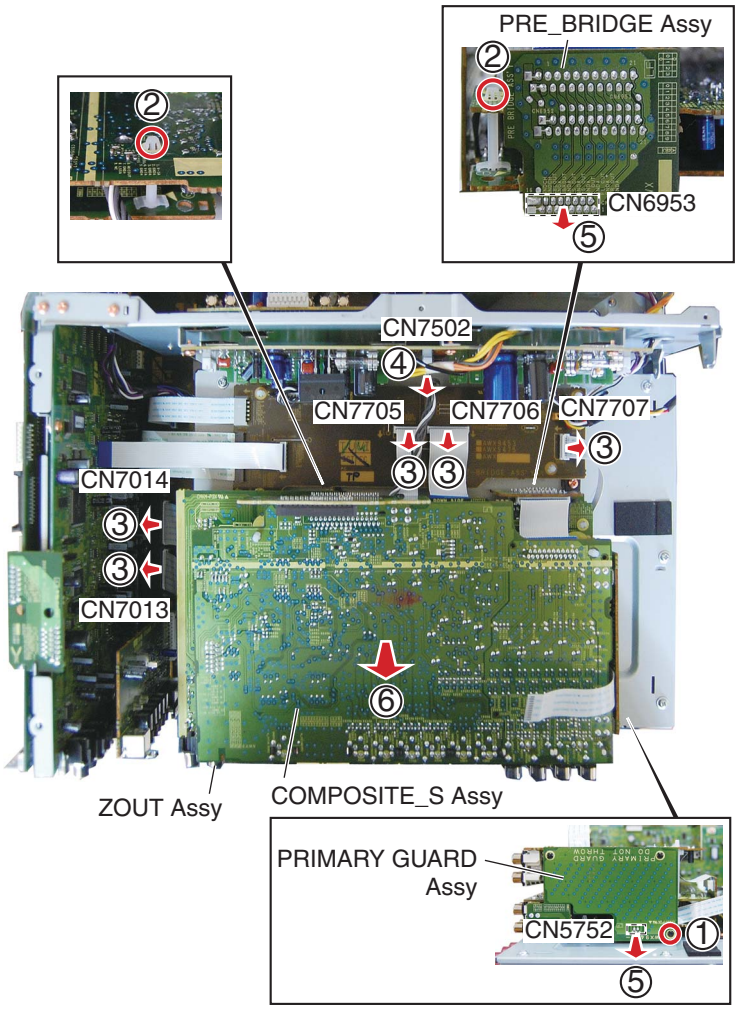
[2-2] PRIMARY Assy

(1) Disconnect the one connector.
(2) Remove the two screws. (ABA1011)
(3) Remove the PRIMARY Assy.



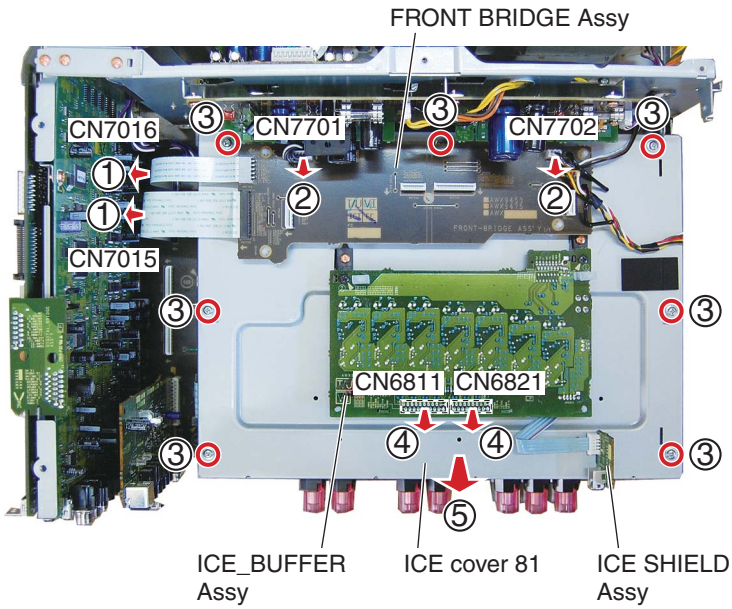
[2-3] COMPOSITE_S Assy etc.

(1) Remove the one push rivet.
(2) Remove the two PCB holders.
(3) Disconnect the five flexible cables.
(4) Disconnect the one connector.
(5) Disconnect the two B to B connectors.
(6) Remove the COMPOSITE_S, ZOUT, AUDIO, V-BRIDGE, PRE_BRIDGE and PRIMARY GUARD Assemblies.



[3] ICE Section

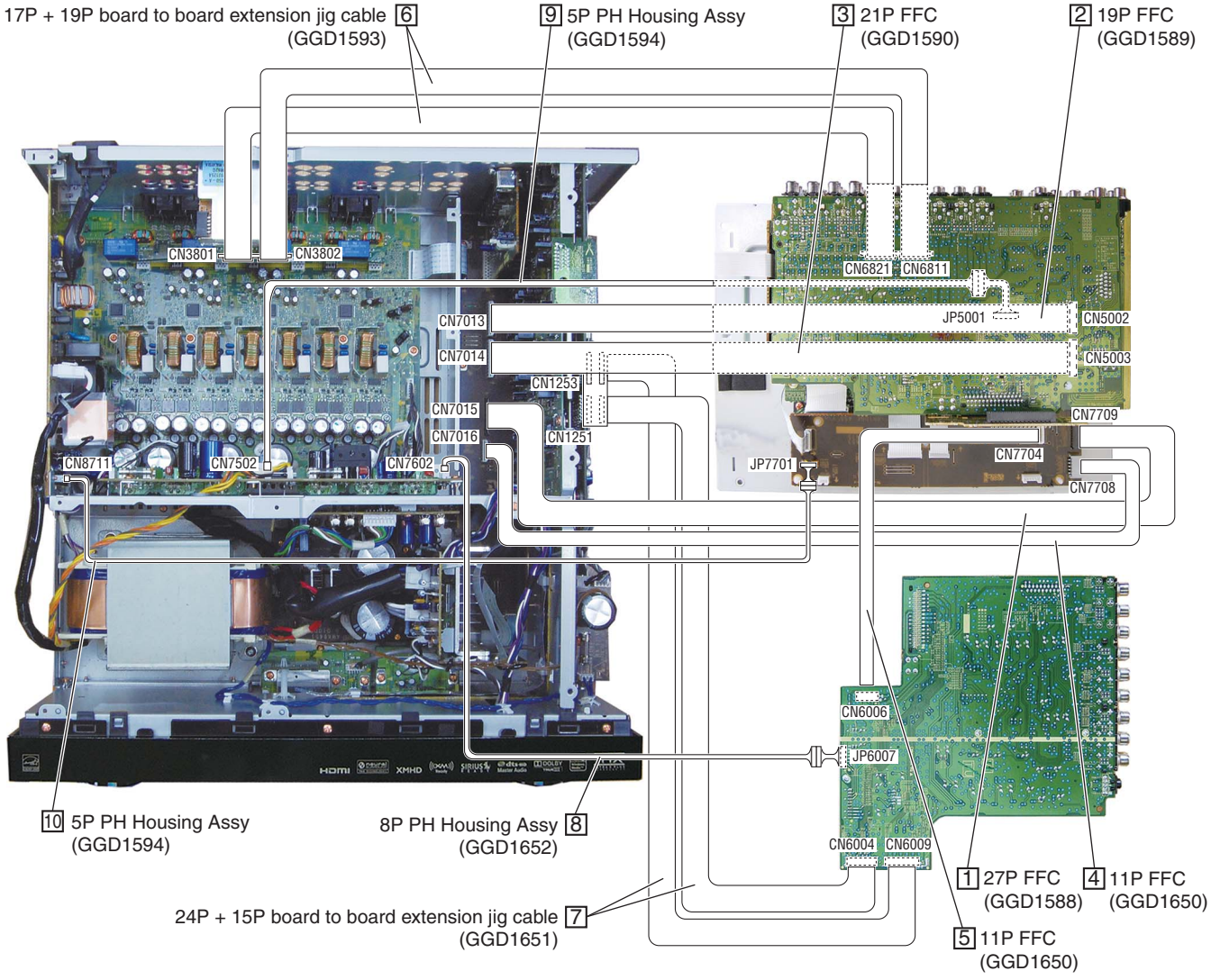
(1) Disconnect the two flexible cables.
(2) Disconnect the two connectors.
(3) Remove the seven screws. (AMZ30P060FTC)
(4) Disconnect the two B to B connectors.
(5) Remove the ICE cover 81 with PC board.



Diagnosis

(1) Reassembling the AUDIO Assy etc..
(2) Reassembling the PRIMARY Assy.
(3) Tighten the screws of the ground points, and temporarily assemble the rear panel.
(4) Connect the 10 extension jig cables.
(5) Connect the ground points to the chassis ground. **(See "Ground points".)**
(6) Arrange the unit as shown in the photo below.

Note: When diagnosing, it is not necessary to connect FAN cable (FRONT BRIDGE: CN7701).



No.	Jig Cable	Part No.	Assy			Assy		Remarks
1	27P FFC	GGD1588	INTERFACE	CN7015	<->	CN7709	FRONT BRIDGE	Audio
2	19P FFC	GGD1589	INTERFACE	CN7013	<->	CN5002	AUDIO	Audio
3	21P FFC	GGD1590	INTERFACE	CN7014	<->	CN5003	AUDIO	Audio
4	11P FFC	GGD1650	INTERFACE	CN7016	<->	CN7708	FRONT BRIDGE	Front I/O check
5	11P FFC	GGD1650	COMPONENT	CN6006	<->	CN7704	FRONT BRIDGE	Power supply
6	17P + 19P board to board extension jig cable	GGD1593	ICE INTERFACE	CN3801	<->	CN6821	ICE_BUFFER	Audio (Speaker output)
		GGD1593	ICE INTERFACE	CN3802	<->	CN6811	ICE_BUFFER	Audio (Speaker output)
7	24P + 15P board to board extension jig cable	GGD1651	COMPONENT	CN6009	<->	CN1253	DIGITAL MAIN	Video
		GGD1651	COMPONENT	CN6004	<->	CN1251	DIGITAL MAIN	Video
8	8P PH Housing Assy	GGD1652	COMPONENT	JP6007	<->	CN7602	REG	FL power supply
9	5P PH Housing Assy	GGD1594	AUDIO	JP5001	<->	CN7502	REG	Audio
10	5P PH Housing Assy	GGD1594	PRIMARY	CN8711	<->	JP7701	FRONT BRIDGE	Power supply

8. EACH SETTING AND ADJUSTMENT
8.1 HOW TO UPDATE FIRMWARE

[1] Version Indication

[Purpose]

The versions for Syscon EMMA, EVENT con and DSP firmware are displayed.

[Preparations]

1. Power on only the Main zone.
2. Set the main volume level to -79.5 dB.

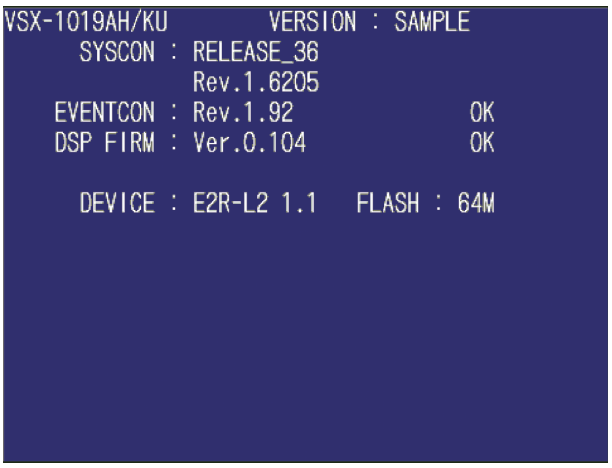
[How to enter]

1. Press “HOME MENU” key of the remote control unit and displays HOME MENU screen.
2. On that above conditions, simultaneously press and hold "ENTER" and " MULTI-zone CONTROL" keys for more than 10 seconds.

[How to exit]

Simultaneously press and hold "ENTER" and " MULTI-ZONE CONTROL" keys for short seconds. (The volume level is free.) Or turn off the power.

[Check GUI Display sample]



The display design is subject to possible modifications.

[2] Syscon (EMMA), EVENT con and DSP Flash ROM Update by USB Memory

● **UPDATE PANEL Mode (Version update)**

[Preparations]

1. Copy the UPDATE FILE to the root directory of the USB Memory.
2. Turn off the power to this unit by setting Multi-Zone to "OFF".
3. Connect the USB Memory to the USB terminal (A type) of the front panel.

[Procedure]

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

● **UPDATE PANEL2 Mode (Version down and same version install)**

[Preparations]

1. Copy the UPDATE FILE to the root directory of the USB Memory.
2. Turn off the power to the unit by **setting the main volume to "---db"** and Multi-zone to OFF.
3. Connect the USB Memory to the USB terminal (A type) of the front panel.

[Procedure]

1. Simultaneously press and hold **"↑"** and **"MULTI-ZONE ON/OFF"** keys for **about 5** seconds and moves to the **UPDATE PANEL2 mode**.
2. The updating process is as follows.

The FL display and procedure of the updating process is same for both mode.
For UPDATE PANEL 2 Mode, after completing the update, it is necessary to disconnect then reconnect the AC cord of the unit.

Key operation	FL display
[↑] + [STANDBY ON/OFF]	
↓	POWER ON
Booting is completed.	
↓	Whole version is displayed. VERSION 1.000
[↓] or [↑]	
[↓] [↑]	Update Menu UPDATE

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

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

Key operation	FL display
DSP UPDATE completed 	Updating process U P D A T E
EMMA UPDATE completed 	Updating process U P D A T E
EVENT UPDATE completed 	Update completion display C O M P L E T E
5 Second 	
Power turns off automatically. (All ZONE OFF) Disconnect the USB MEMORY.	

The updating time is about 10 minutes.

[Confirmation]

1. Check the updated version.
   Following the procedures described in "Version Indication" in this section, check that the version has been changed to a new one.

[Procedure for UPDATE PANEL 2 Mode]

After completing the UPDATE PANEL **2** Mode update and confirming the version, it is necessary to **disconnect then reconnect the AC cord** of the unit.

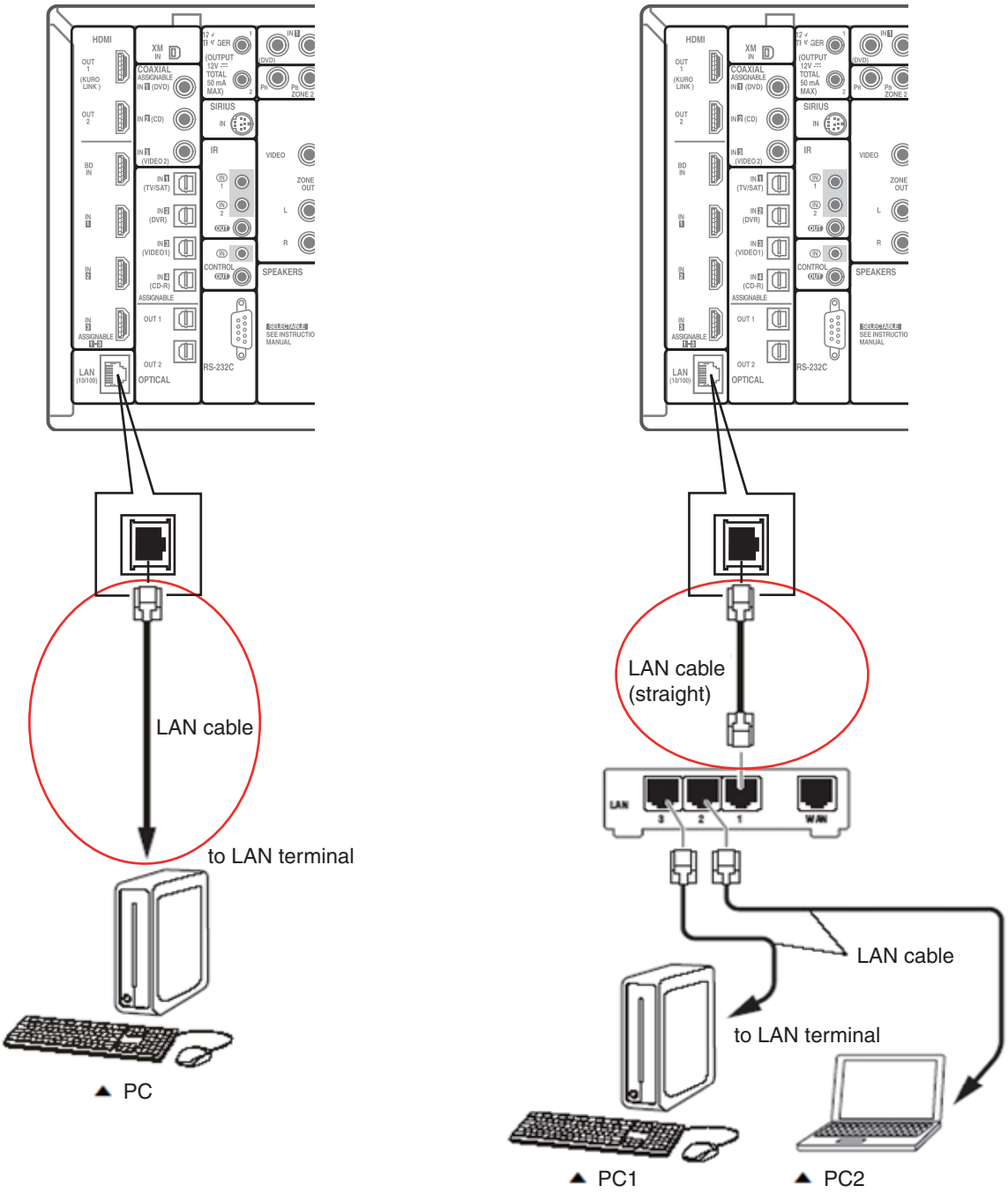
[3] Network Firmware Update Procedure

[Necessary Tools]

- PC (OS: Windows XP, Windows Vista)
- LAN cable (either straight or cross cable can be used)
- Firmware file (with the extension .bcd)

[Connections]

Either directly connect the PC and AV amplifier (Connection A) or connect them via a DHCP router (Connection B).
Either a straight or cross LAN cable can be used.



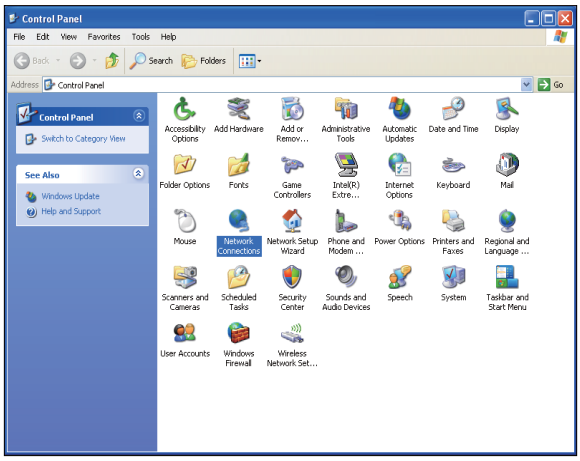
[Connection A] [Connection B]

[Preparations]

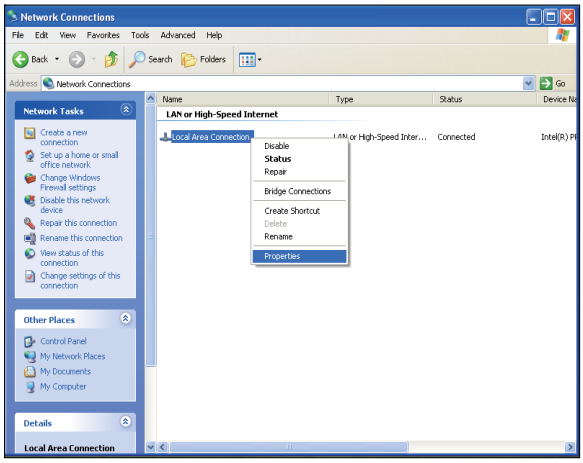
Set the static IP address of the PC.

*When Connection B (connection via a DHCP router) is performed in [Procedure 1], this setting is not required.

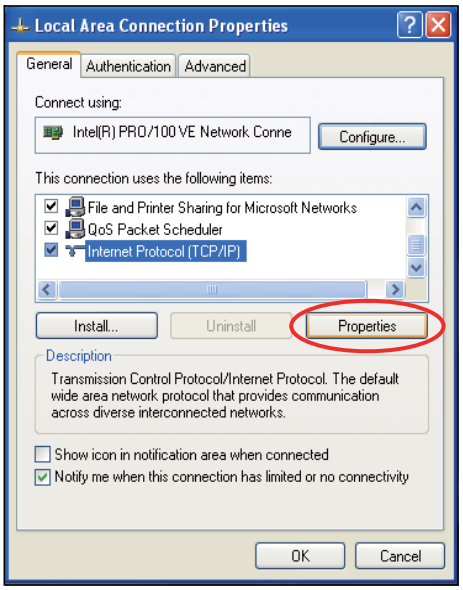
Open the Control Panel. --->
Open the Network Connections (double click).



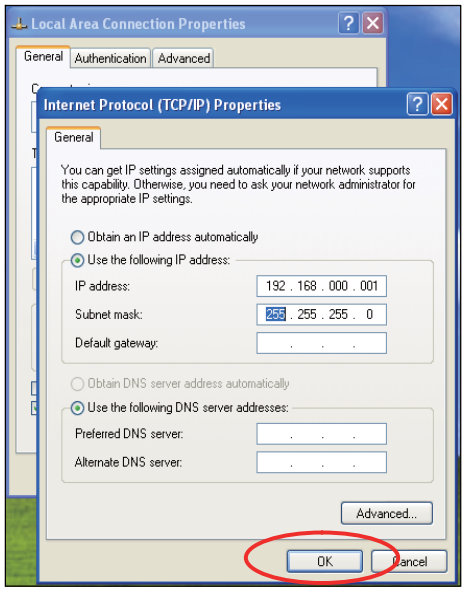
Local Area Connection (right click) ---> Properties



Local Area Connections Properties --->
Internet Protocol (TCP/IP) ---> Properties



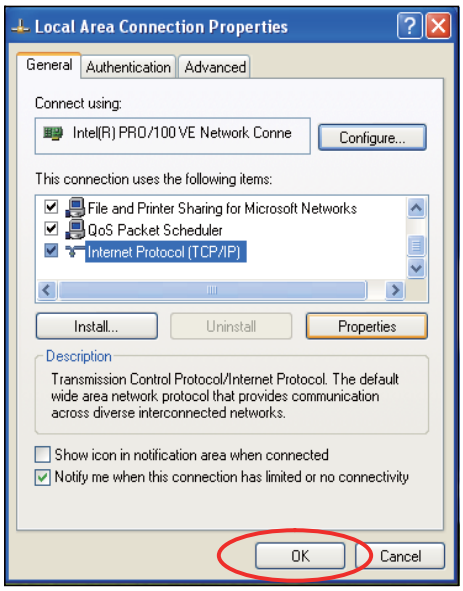
Internet Protocol (TCP/IP) Properties



Set the following settings.

Use the following IP address:
IP address: 192.168.000.001
Subnet mask: 255.255.255.0

In the Local Area Connections Properties window, click on OK to close the window.



Setting of the static IP address for the PC is completed.

[Procedures]

1. Either directly connect the PC and AV amplifier (Connection A) or connect them via a DHCP router (Connection B).

2. [When the PC and AV amplifier are directly connected]
Set the static IP address of the AV amplifier.
How to Set the IP Address

(1) 

Set the remote control operation switch to SOURCE (SC-27 only).

(2) Press the HOME MEDIA GALLERY button to set the input function to Home Media Gallery.
The Top menu will be displayed on the OSD.

(3) Select “Setup” then press ENTER.

(4) Select “Network Setup” then press ENTER.

(5) When “Network Found” or “No Network” is displayed, press ENTER.

(6) Select “Static IP Address” then press ENTER.

***Note:**
Be sure to note the network settings (IP address, subnet mask, gateway, proxy server) of the customer’s unit when the static IP address has been set for the unit.

(7) Select “Change” then press ENTER. Enter the following values:

IP Address: 192. 168. 000. 002
Subnet Mask: 255. 255. 255. 0
Gateway IP: 192. 168. 000. 001
Proxy Server: [No]

(8) After setting “Proxy Server,” press ENTER. The screen will be returned to the Top menu.

[When the PC and AV amplifier are connected via a DHCP router]

Be sure to confirm and note the IP address.

How to Confirm the IP Address

(1) TV SOURCE RECEIVER Set the remote control operation switch to SOURCE (SC-27 only).

(2) Press the HOME MEDIA GALLERY button to set the input function to Home Media Gallery.

(3) Select “Setup,” using the ↑ or ↓ key, then press ENTER.

(4) Select “Information” then press ENTER. The version of the network firmware will be displayed.

(5) Change displays, using the ↑ or ↓ key, to check the “IP Address.”

(6) To return to the Top menu screen, press the Return button twice.

3. The following steps are to be performed on the PC.

Open Internet Explorer on the PC.

When the AV amplifier is directly connected with the PC, enter “http:// 192. 168. 000. 002” in the address box then press the Enter key.

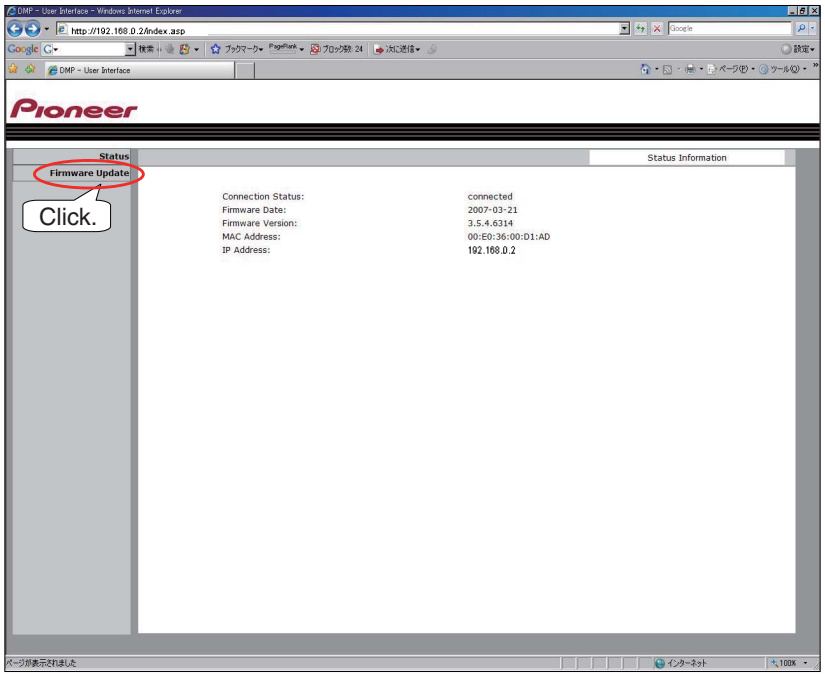
When the AV amplifier is connected via a DHCP router, enter the IP address of the AV amplifier you noted in the address box then press the Enter key.

(1) Enter “http:// ***. ***. ***. *** (IP address of the AV amplifier).”

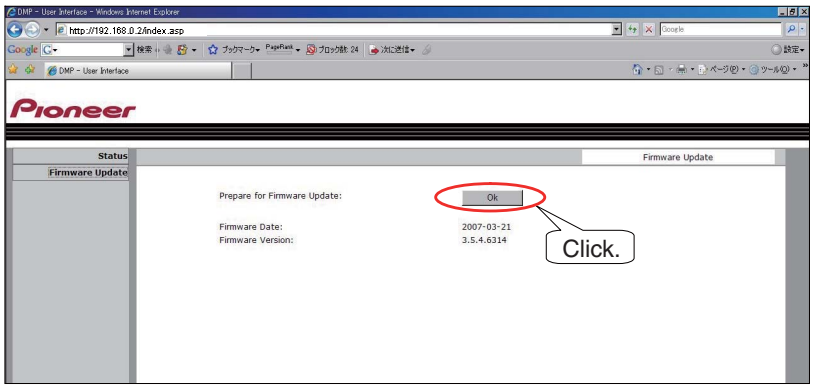
(2) Click on the Update button or press the Enter key.

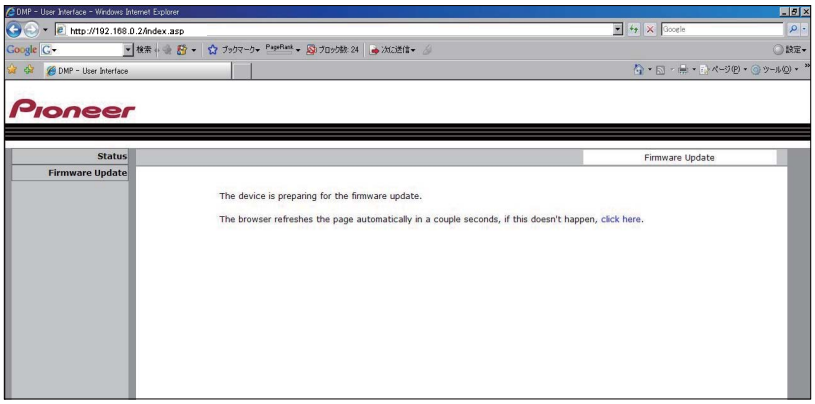
The following screen will be displayed.

Click on “Firmware Update.”

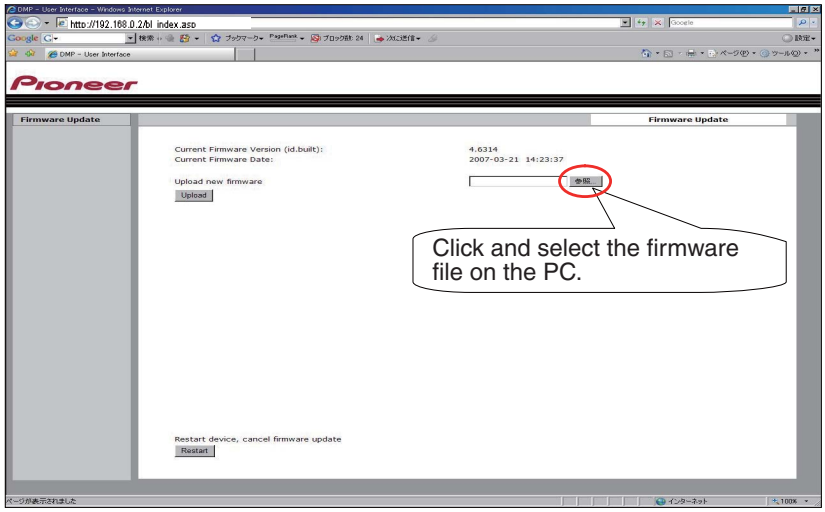


“Prepare for Firmware Update” and the current version will be displayed.
Click on OK. The firmware update screen will be displayed within several seconds.

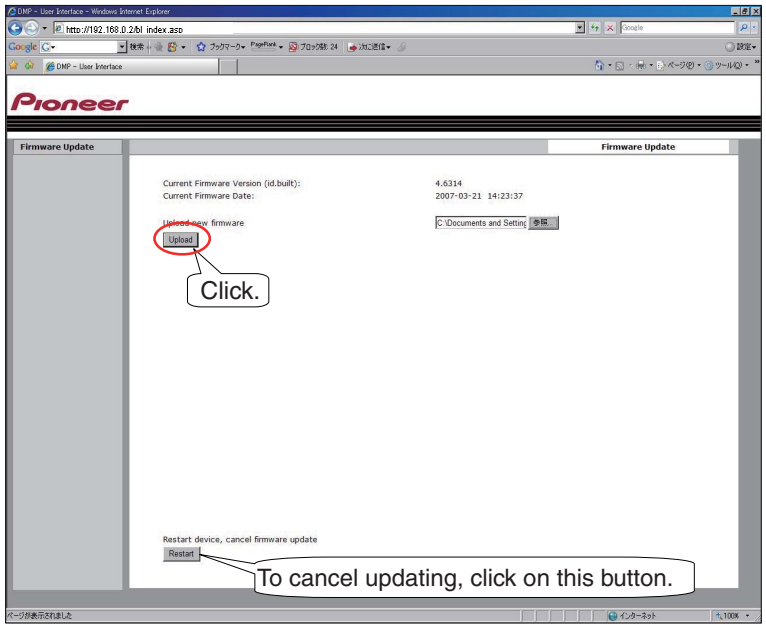




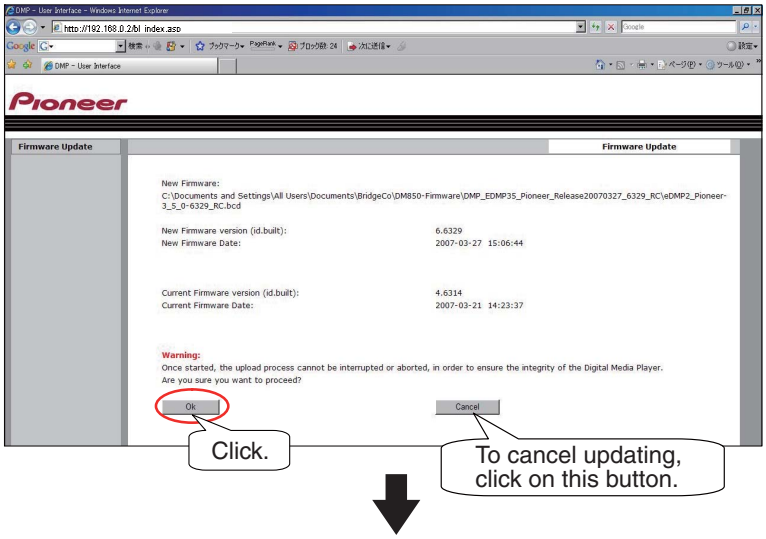
Click the browse button and select the firmware file in the PC.



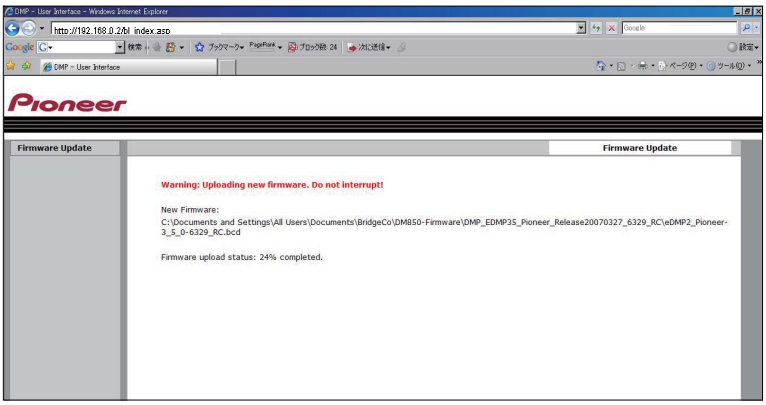
Click the Upload button.



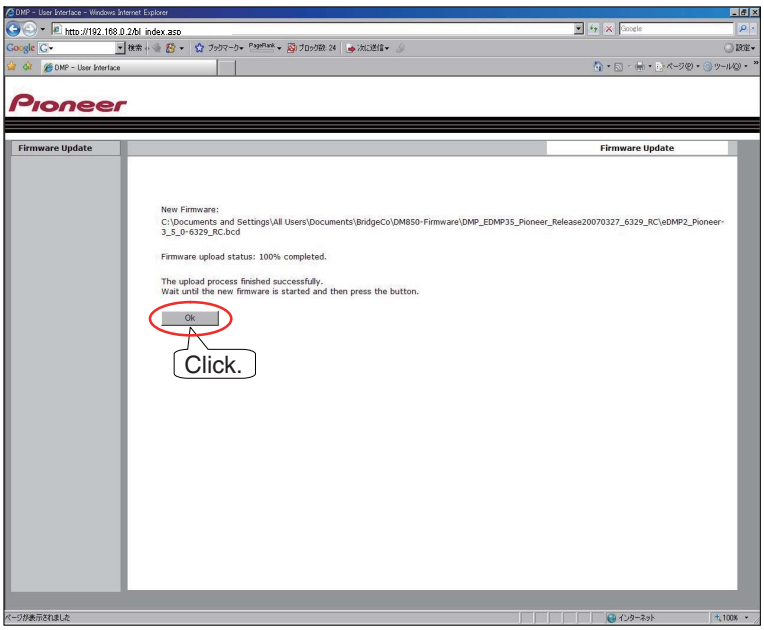
The firmware update execution screen will be displayed. Click on OK.



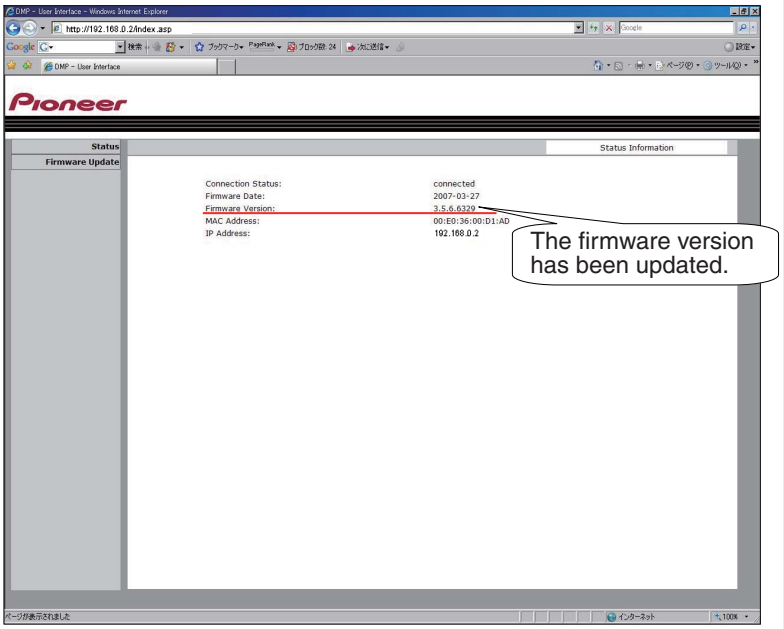
Updating of the firmware will start. The progress of updating will be displayed in percentage.



After updating is completed, click on OK to return to the Status screen.



Check that the firmware version has been updated.



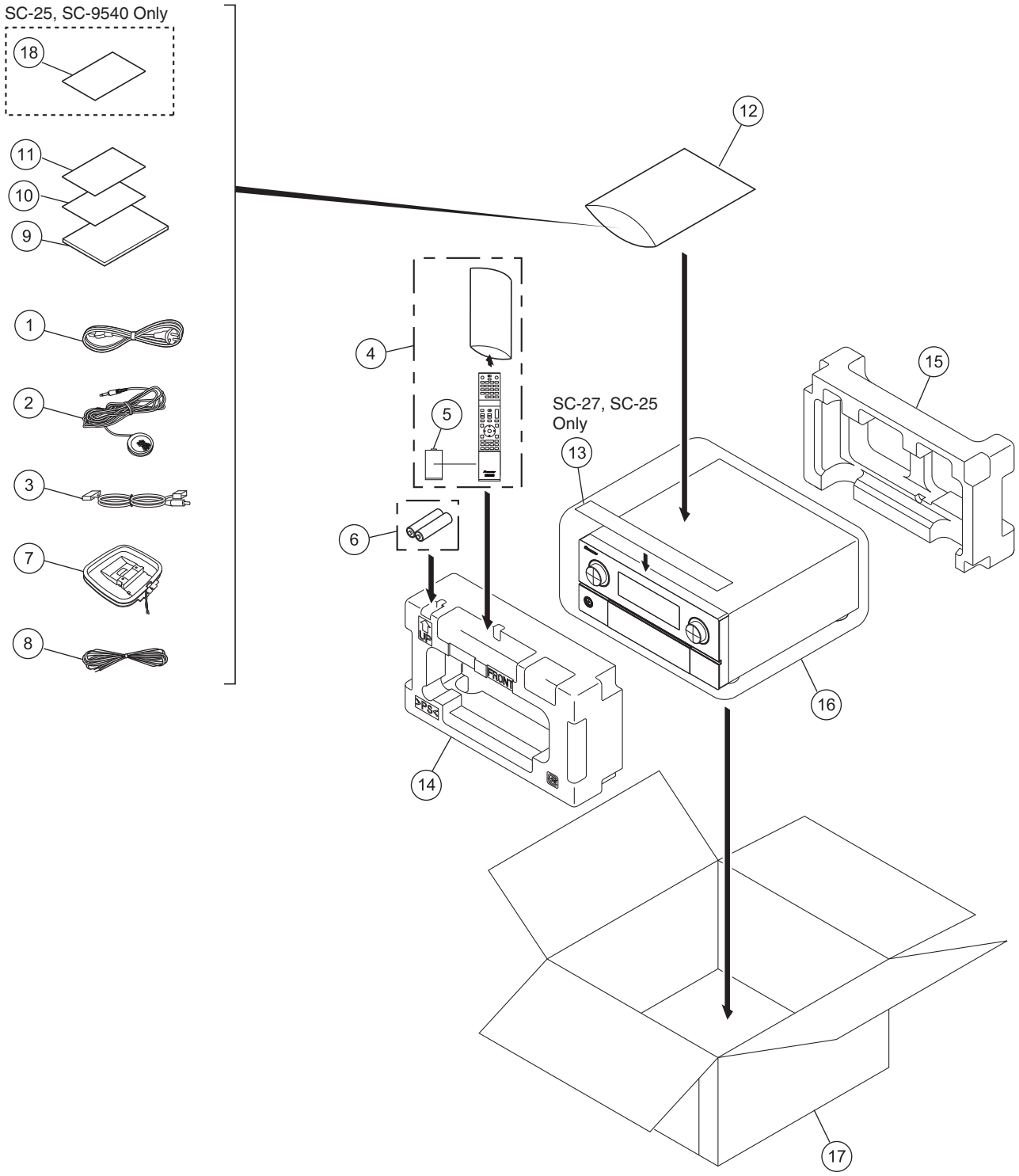
Press the POWER button on the AV amplifier to turn it off and again to turn it back on again.

Note: Please restore the Network IP settings of the customer's unit after the update is completed.

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 SECTION



(1) PACKING SECTION PARTS LIST

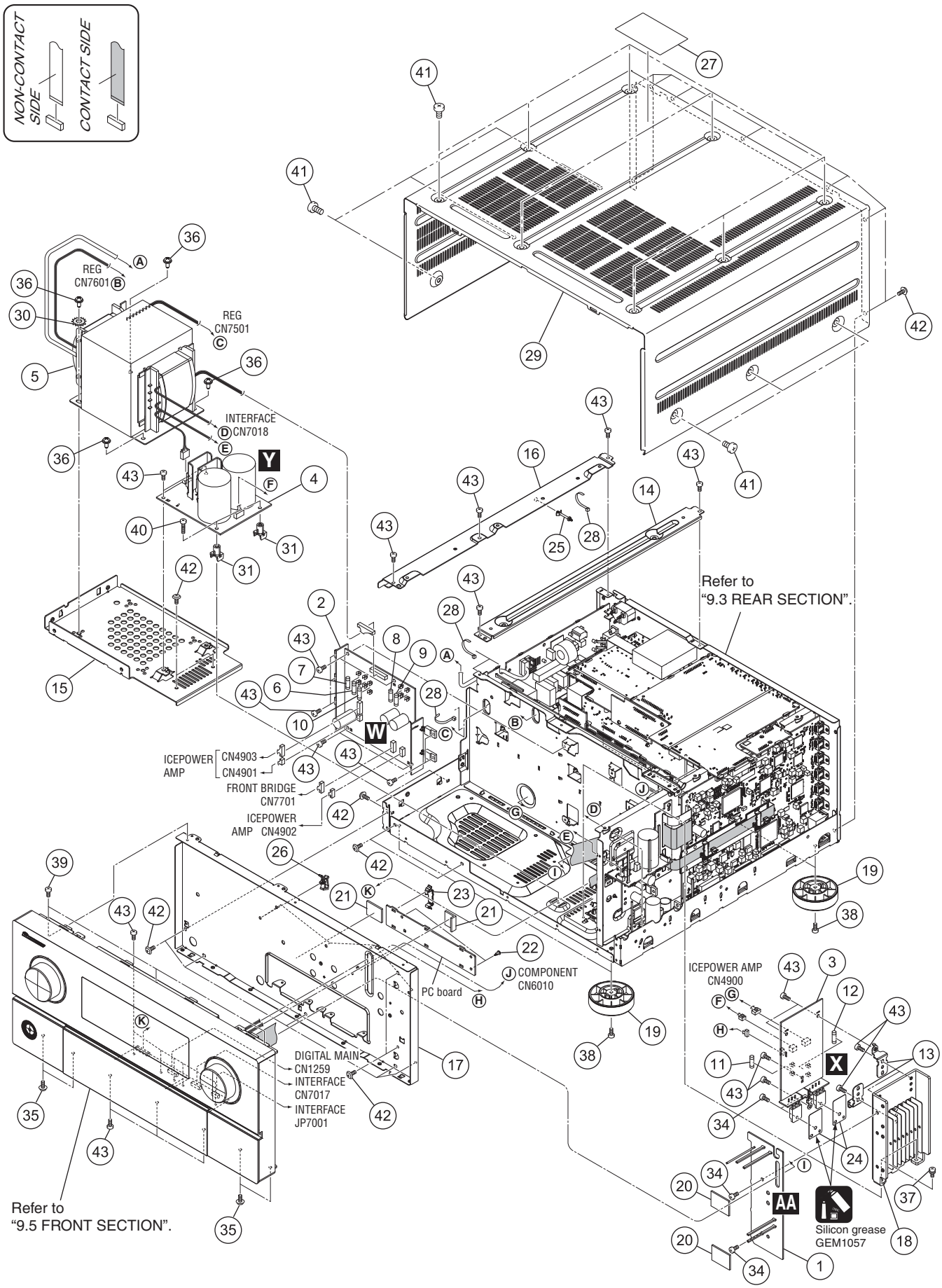
Mark	No.	Description	Part No.
⚠	1	Power Cord	ADG7111
	2	MCACC Setup Microphone	APM7009
	3	iPod Cable (USB+V)	ADE7129
	4	Remote Control Unit	See Contrast table (2)
	5	Battery Cover	See Contrast table (2)
NSP	6	Dry Cell Battery (AA, R6)	XEX3006
	7	AM Loop Antenna	ATB7013
	8	FM Wire Antenna	ADH7030
	9	Operating Instructions (En)	See Contrast table (2)
	10	Caution Sheet SP,E	ARM7083
NSP	11	Warranty Card	See Contrast table (2)
NSP	12	Polyethylene Bag	AHG7117
	13	Protection Sheet LX	See Contrast table (2)
	14	Front Pad 81	AHA7478
	15	Rear Pad 81	AHA7479
	16	Packing Sheet	RHC1023
	17	Packing Case	See Contrast table (2)
	18	Preset List (En, Frca, Ja)	See Contrast table (2)

(2) CONTRAST TABLE

SC-27/CUXJCA, SC-25/CUXJCA and SC-9540/CUXJCA are constructed the same except for the following:

Mark	No.	Symbol and Description	SC-27 /CUXJCA	SC-25 /CUXJCA	SC-9540 /CUXJCA
	4	Remote Control Unit	AXD7539	AXD7542	AXD7542
	5	Battery Cover	AZN8031	VZN1025	VZN1025
	9	Operating Instructions (En)	ARB7420	ARB7420	ARB7421
NSP	11	Warranty Card	ARY7007	ARY7007	ARY7045
	13	Protection Sheet LX	AEH7030	AEH7030	Not used
	17	Packing Case 27CU	AHD8631	Not used	Not used
	17	Packing Case 25CU	Not used	AHD8637	Not used
	17	Packing Case 9540CU	Not used	Not used	AHD8638
	18	Preset List (En, Frca, Ja)	Not used	ARH7092	ARH7092

9.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

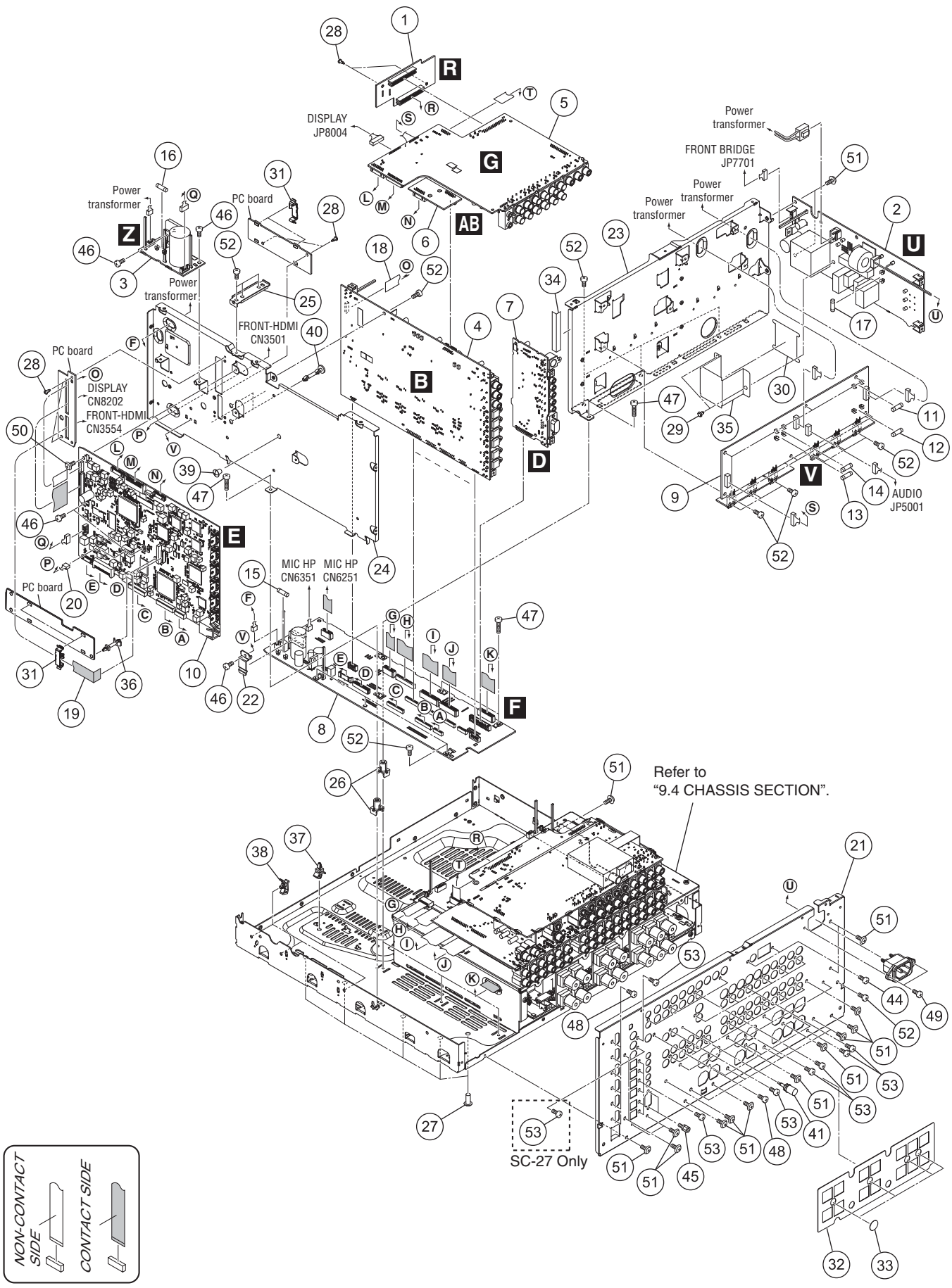
Mark	No.	Description	Part No.
	1	H GUARD Assy	AWX9441
	2	ICE_REG Assy	AWX9448
	3	B_REG Assy	AWX9450
	4	B_DIODE Assy	AWX9451
⚠	5	Power Transformer (T1501)	ATS7422
⚠	6	Fuse (FU13: 1 A)	REK1142
⚠	7	Fuse (FU14: 1 A)	REK1142
⚠	8	Fuse (FU11: 1.25 A)	REK1143
⚠	9	Fuse (FU12: 1.25 A)	REK1143
⚠	10	Fuse (FU15: 1.25 A)	REK1143
⚠	11	Fuse (FU61: 10 A)	REK1154
⚠	12	Fuse (FU62: 10 A)	REK1154
	13	PCB Angle 45	ANG7406
	14	Center Beam V1	ANG7482
	15	Trans Frame 81	ANG7623
	16	Left Beam 81	ANG7624
NSP	17	Panel Stay 82	ANG7653
	18	Reg Heatsink 81	ANH7204
	19	Insulator	See Contrast table (2)
	20	FFC Cushion	AEB7404
	21	Cushion T3 20 x 35	AEB7406
	22	Push Rivet	AEC7071
	23	Reuse Wire Clamp	AEC7626
	24	Mica Sheet	AEE7034
	25	PCB Holder	PNW2562
NSP	26	Mini Clamp	VEC1597
	27	License Label V6S H	ARW7388
NSP	28	Binder (BK-1)	ZCA-BK1
	29	Bonnet 81B (BOX)	AZN8036
	30	Toothed Lock Washer	WH40FNI
	31	PCB Mold	AMR2533
	32	•••••	
	33	•••••	
	34	Screw 3 x 12	ABA1052
	35	Screw 3 x 10	ABA1193
	36	Screw 4 x 12	ABA7109
	37	Screw 3 x 10	ABA7134
	38	CUP Screw 3 x 8	ABA7149
	39	Screw	BBT30P080FCC
	40	Screw	BBZ30P180FCC
	41	Screw	BCZ40P060FTB
	42	Screw	ABA1011
	43	Screw	BBZ30P060FCC

(2) CONTRAST TABLE

SC-27/CUXJCA, SC-25/CUXJCA and SC-9540/CUXJCA are constructed the same except for the following:

Mark	No.	Symbol and Description	SC-27 /CUXJCA	SC-25 /CUXJCA	SC-9540 /CUXJCA
	19	Insulator	AMR7198	AMR7198	Not used
	19	Insulator Assy	Not used	Not used	DXA1904

9.3 REAR SECTION



(1) REAR SECTION PARTS LIST

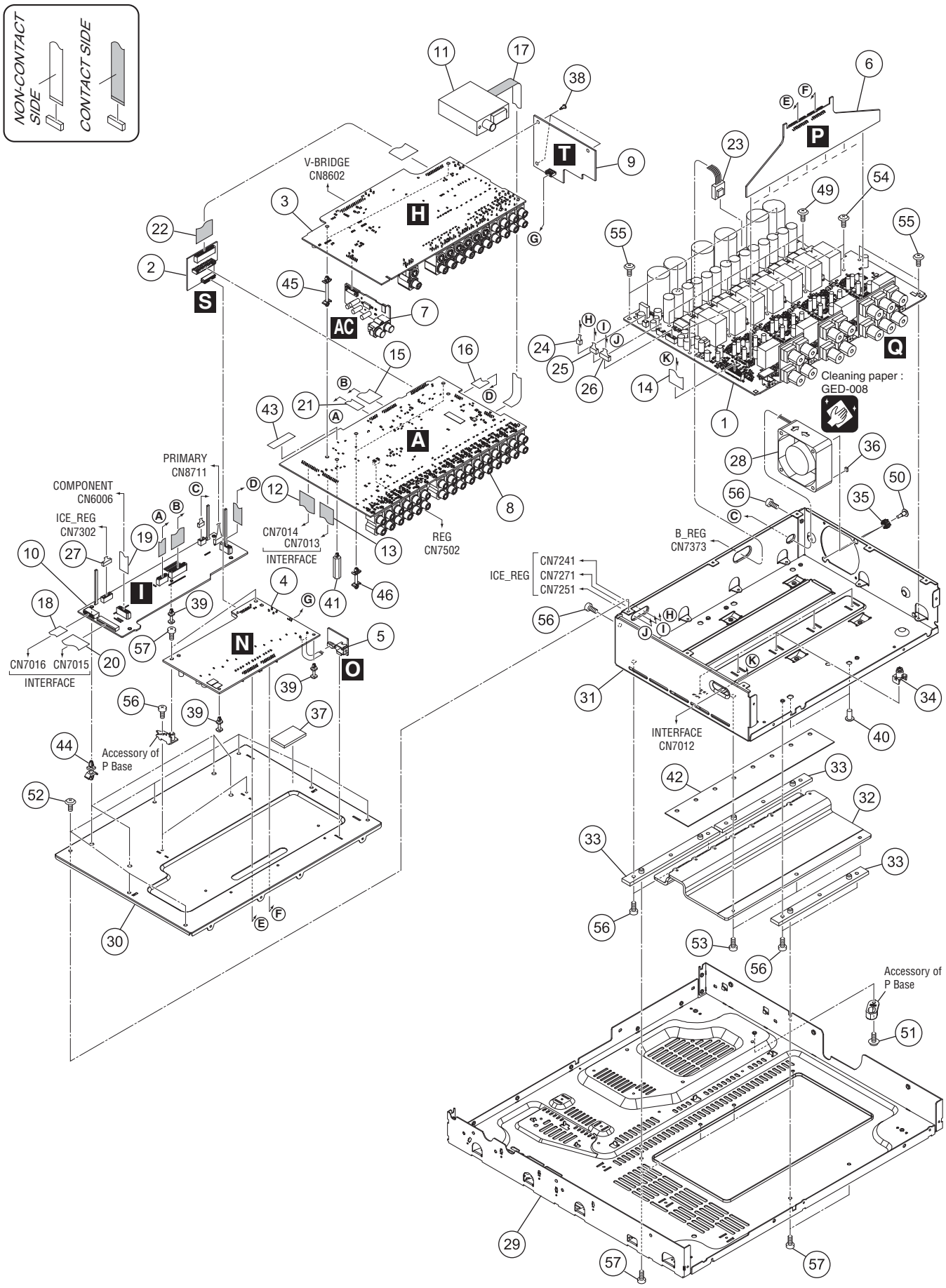
Mark	No.	Description	Part No.
	1	V-BRIDGE Assy	AWX9457
	2	PRIMARY Assy	AWX9458
	3	HDMI RECT Assy	AWX9459
	4	DSP Assy	See Contrast table (2)
	5	COMPONENT Assy	See Contrast table (2)
	6	DIGITAL_BRIDGE Assy	AWX9461
	7	232C_CONTROL Assy	AWX9435
	8	INTERFACE Assy	AWX9447
	9	REG Assy	AWX9452
	10	DIGITAL MAIN Assy	AWX9463
⚠	11	Fuse (FU21: 1.25 A)	REK1143
⚠	12	Fuse (FU22: 1.25 A)	REK1143
⚠	13	Fuse (FU31: 1.25 A)	REK1143
⚠	14	Fuse (FU32: 1.25 A)	REK1143
⚠	15	Fuse (FU51: 3 A)	REK1147
⚠	16	Fuse (FU41: 4 A)	REK1149
⚠	17	Fuse (FU1: 10 A)	VEK1029
	18	24P FFC/60V (J18)	ADD7681
	19	30P Shield FFC (J20)	ADD7713
	20	5P Housing Assy (Y26)	ADX7698
	21	Rear Panel	See Contrast table (2)
NSP	22	Transistor Holder	ANG7543
	23	REG Assy Plate 81	ANG7627
	24	DSP Shield 82	ANG7652
	25	Support Plate 82	ANG7654
	26	PCB Mold	AMR2533
	27	PCB Holder	AEC7057
	28	Push Rivet	AEC7071
	29	Nylon Rivet	AEC7406
	30	Primary Barrier	AEC7569
	31	Reuse Wire Clamp	AEC7626
	32	SP Sheet 82	AEC7633
	33	Cushion Circle 14B	AED7081
	34	Acetate Tape 10 x 60	AEH7029
	35	Shield Case	AMR7526
NSP	36	PCB Holder	PNW2100
	37	Locking Card Spacer	PNW2917
NSP	38	Mini Clamp	VEC1597
NSP	39	PC Support	VEC1749
	40	Locking Card Spacer	XEC3051
	41	Terminal Screw	AKE-031
	42	•••••	
	43	•••••	
	44	Screw 3 x 6	ABA1207
	45	Hex Head Screw 2.85 x 7	ABA7078
	46	Screw	BBZ30P080FCC
	47	Screw	BBZ30P180FCC
	48	Screw	BMZ30P040FTB
	49	Screw	CBZ30P080FTB
	50	Screw	IBP30P090FCC
	51	Screw	ABA1011
	52	Screw	BBZ30P060FCC
	53	Screw	BPZ30P080FTB

(2) CONTRAST TABLE

SC-27/CUXJCA, SC-25/CUXJCA and SC-9540/CUXJCA are constructed the same except for the following:

Mark	No.	Symbol and Description	SC-27 /CUXJCA	SC-25 /CUXJCA	SC-9540 /CUXJCA
	4	DSP Assy	AWX9429	AWX9467	AWX9467
	5	COMPONENT Assy	AWX9437	AWX9490	AWX9490
	21	Rear Panel 27CU	ANC8544	Not used	Not used
	21	Rear Panel 25CU	Not used	ANC8557	Not used
	21	Rear Panel 9540	Not used	Not used	ANC8558

9.4 CHASSIS SECTION



(1) CHASSIS SECTION PARTS LIST

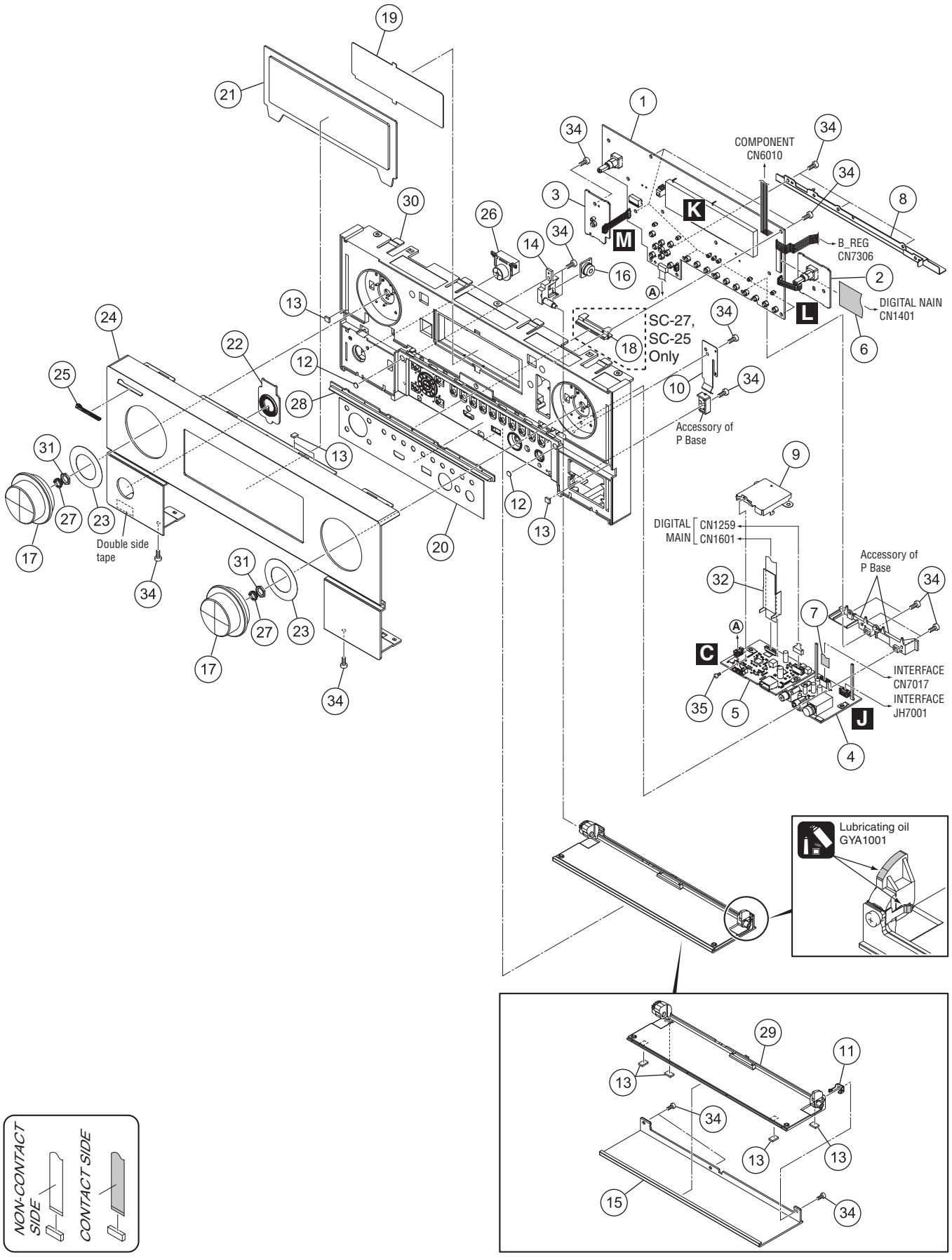
Mark	No.	Description	Part No.
	1	ICEPOWER AMP Assy	See Contrast table (2)
	2	PRE_BRIDGE Assy	AWX9440
	3	COMPOSITE_S Assy	AWX9443
	4	ICE_BUFFER Assy	AWX9444
	5	ICE SHIELD Assy	AWX9445
	6	ICE INTERFACE Assy	AWX9430
	7	ZOUT Assy	AWX9439
	8	AUDIO Assy	AWX9434
	9	PRIMARY GUARD Assy	AWX9436
	10	FRONT BRIDGE Assy	AWX9453
	11	FM/AM TUNER Unit	AXX7267
	12	21P FFC/60V (J2)	ADD7645
	13	19P FFC/60V (J3)	ADD7646
	14	17P FFC/60V (J4)	ADD7647
	15	17P FFC/60V (J6)	ADD7649
	16	9P FFC/60V (J7)	ADD7650
	17	11P FFC/60V (J8)	ADD7651
	18	11P FFC/60V	ADD7651
	19	11P FFC/60V	ADD7651
	20	27P FFC/60V (J15)	ADD7662
	21	9P FFC/60V (J16)	ADD7679
	22	21P FFC/60V (J22)	ADD7705
	23	4P Housing Assy (Y20)	ADX7622
	24	2P Housing Assy (Y24)	ADX7657
	25	4P Housing Assy (Y25)	ADX7677
	26	7P Housing Assy (Y22)	ADX7701
	27	6P Housing Assy (Y23)	ADX7715
⚠	28	DC FAN Motor	AXM7040
NSP	29	Under Base 81	ANA7210
NSP	30	ICE Cover 81	ANF7047
NSP	31	ICE Box 81	ANF7052
NSP	32	Heatsink 82	ANH7215
	33	Insulator ICE	AMR7523
	34	PCB Mold	AMR7536
	35	Damper Bushing	AEB7396
	36	Cushion 5 x 8	AEB7397
	37	Cushion T3 20 x 35	AEB7406
	38	Push Rivet	AEC7071
	39	PCB Spacer (3 x 12)	AEC7080
	40	Card Spacer	AEC7133
	41	Card Spacer 18K	AEC7613
	42	Radiation Sheet 82	AEE7071
	43	Acetate Tape 10 x 35	AEH7032
NSP	44	PCB Holder	PNW2100
NSP	45	Spacer 40	PNW2488
NSP	46	PCB Holder	REC1220
	47	•••••	
	48	•••••	
	49	Screw 3 x 10	ABA7134
	50	Screw 3 x 11.6	ABA7146
	51	CUP Screw 3 x 8	ABA7149
	52	Screw	AMZ30P060FTC
	53	Screw	BBZ30P080FCC
	54	Screw	IBZ30P150FCC
	55	Screw	ABA1011
	56	Screw	BBZ30P060FCC
	57	Screw	BPZ30P080FTB

(2) CONTRAST TABLE

SC-27/CUXJCA, SC-25/CUXJCA and SC-9540/CUXJCA are constructed the same except for the following:

Mark	No.	Symbol and Description	SC-27 /CUXJCA	SC-25 /CUXJCA	SC-9540 /CUXJCA
	1	ICEPOWER AMP Assy	AWH7022	AWH7019	AWH7019

9.5 FRONT SECTION



(1) FRONT SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	DISPLAY Assy	See Contrast table (2)
	2	VOL Assy	AWX9455
	3	POWER SW Assy	AWX9456
	4	MIC HP Assy	AWX9438
	5	FRONT-HDMI Assy	AWX9497
	6	31P FFC/60V (J19)	ADD7682
	7	9P FFC/60V (J21)	ADD7697
	8	Panel Beam 81	ANG7620
	9	F. HDMI Shield 82	ANK7145
	10	Door Spring	ABK7061
	11	Earth Spring 81	ABK7067
	12	Cushion Circle 6B	AED7083
	13	Cushion 11 x 7	AED7092
	14	Door Shaft 60	AMR7531
	15	Door Panel	See Contrast table (2)
	16	Damper Assy (240) LX	AXA7156
	17	VOL. Knob B	AAA7052
	18	IB Lens V5SEL	See Contrast table (2)
	19	Filter	See Contrast table (2)
	20	Door Sheet	See Contrast table (2)
	21	Display Panel	See Contrast table (2)
	22	Power Ring B	AAK8507
	23	VOL Stabilizer 82	AEC7629
	24	Front Panel	See Contrast table (2)
	25	Pioneer Badge	See Contrast table (2)
	26	STDBY BTN 915K Assy	XAD3216
NSP	27	C Ring DIM 8.1	XBH3016
	28	Center Lens	See Contrast table (2)
	29	Door Base 81	AMR7540
	30	P Base 27CU Assy	AZN8040
	31	Nut	NK90FCU
	32	FFC Support	AEC7638
	33	•••••	
	34	Screw	BPZ30P080FTB
	35	Screw M3 x 4	VBA1119

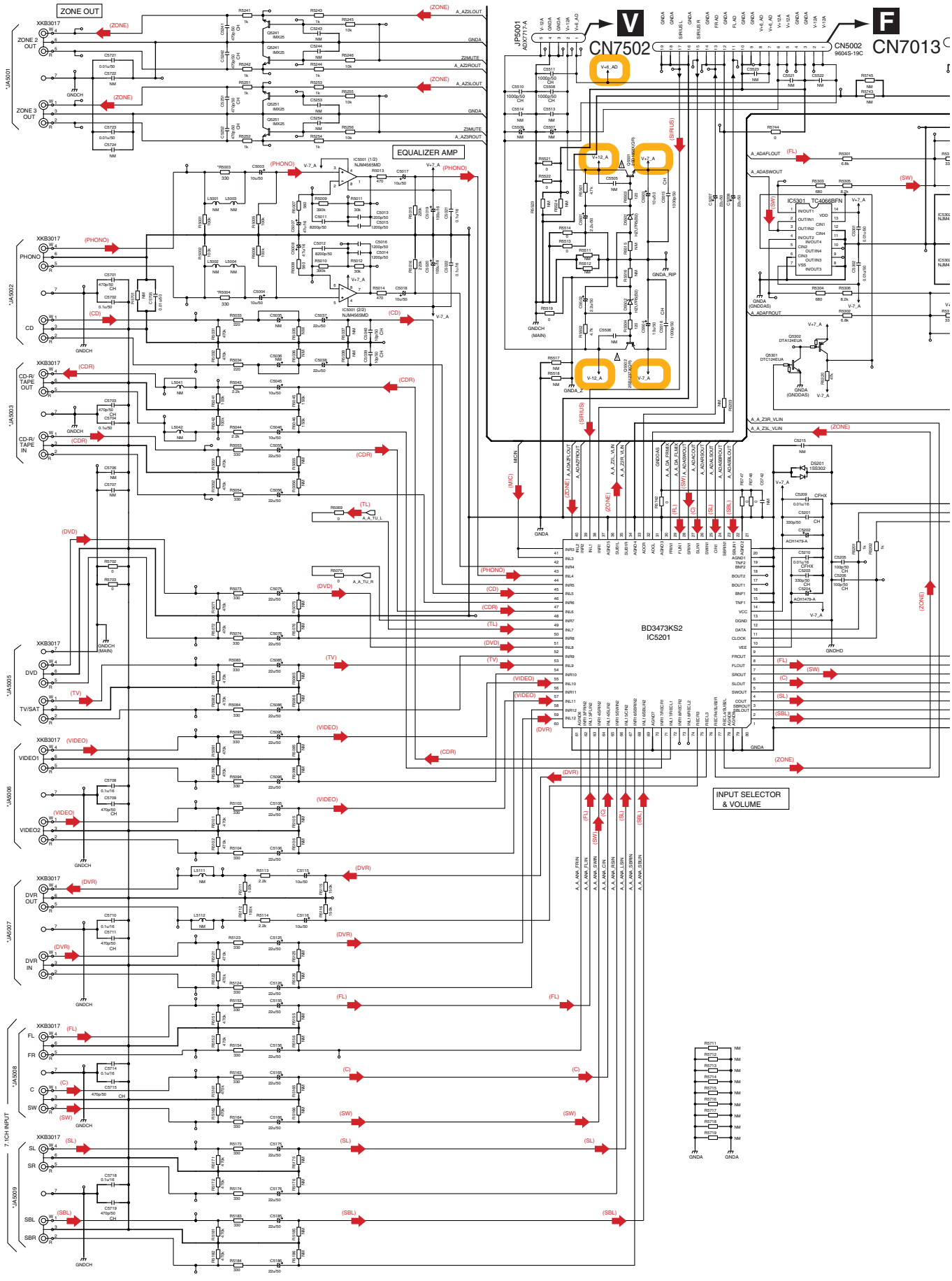
(2) CONTRAST TABLE

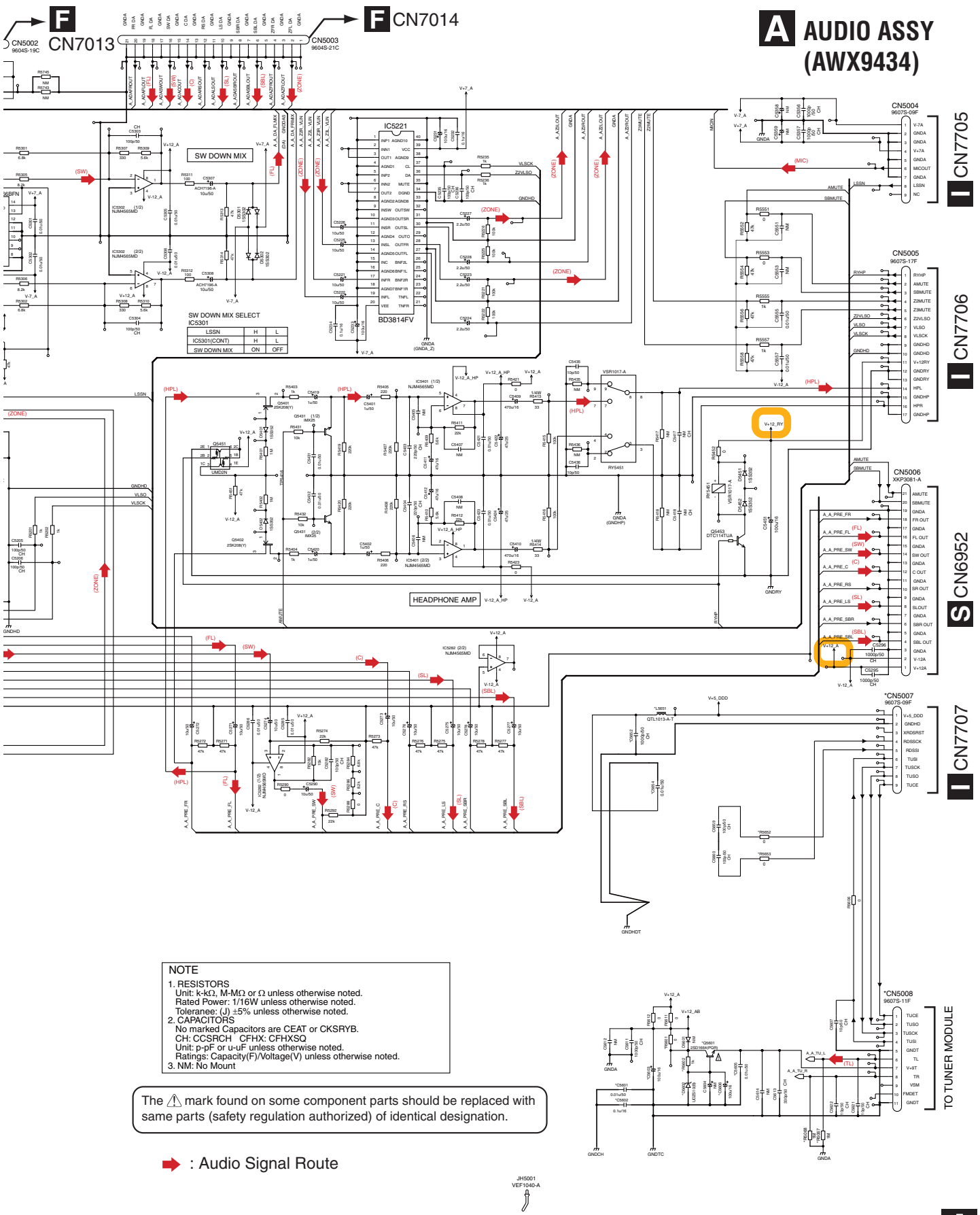
SC-27/CUXJCA, SC-25/CUXJCA and SC-9540/CUXJCA are constructed the same except for the following:

Mark	No.	Symbol and Description	SC-27 /CUXJCA	SC-25 /CUXJCA	SC-9540 /CUXJCA
	1	DISPLAY Assy	AWX9454	AWX9481	AWX9528
	15	Door Panel 07KU	ANB7474	ANB7474	Not used
	15	Door Panel 9450CU	Not used	Not used	ANB7500
	18	IB Lens V5SEL	AAK8430	AAK8430	Not used
	19	Filter 07KU	AAK8443	AAK8443	Not used
	19	Filter 81HY	Not used	Not used	AAK8459
	20	Door Sheet 27CU	AAK8473	Not used	Not used
	20	Door Sheet 25CU	Not used	AAK8495	Not used
	20	Door Sheet 72SV	Not used	Not used	AAK8496
	21	Display Panel 27CU	AAK8488	AAK8488	Not used
	21	Display Panel 82SV	Not used	Not used	AAK8492
	24	Front Panel 27CU	ANB7498	Not used	Not used
	24	Front Panel 25CU	Not used	ANB7503	Not used
	24	Front Panel 9540CU	Not used	Not used	ANB7504
	25	Pioneer Badge G	VAM1159	VAM1159	Not used
	25	Pioneer Badge	Not used	Not used	VAM1158
	28	Center Lens V5SH	AAK8428	AAK8428	Not used
	28	Center Lens V5SL	Not used	Not used	AAK8429

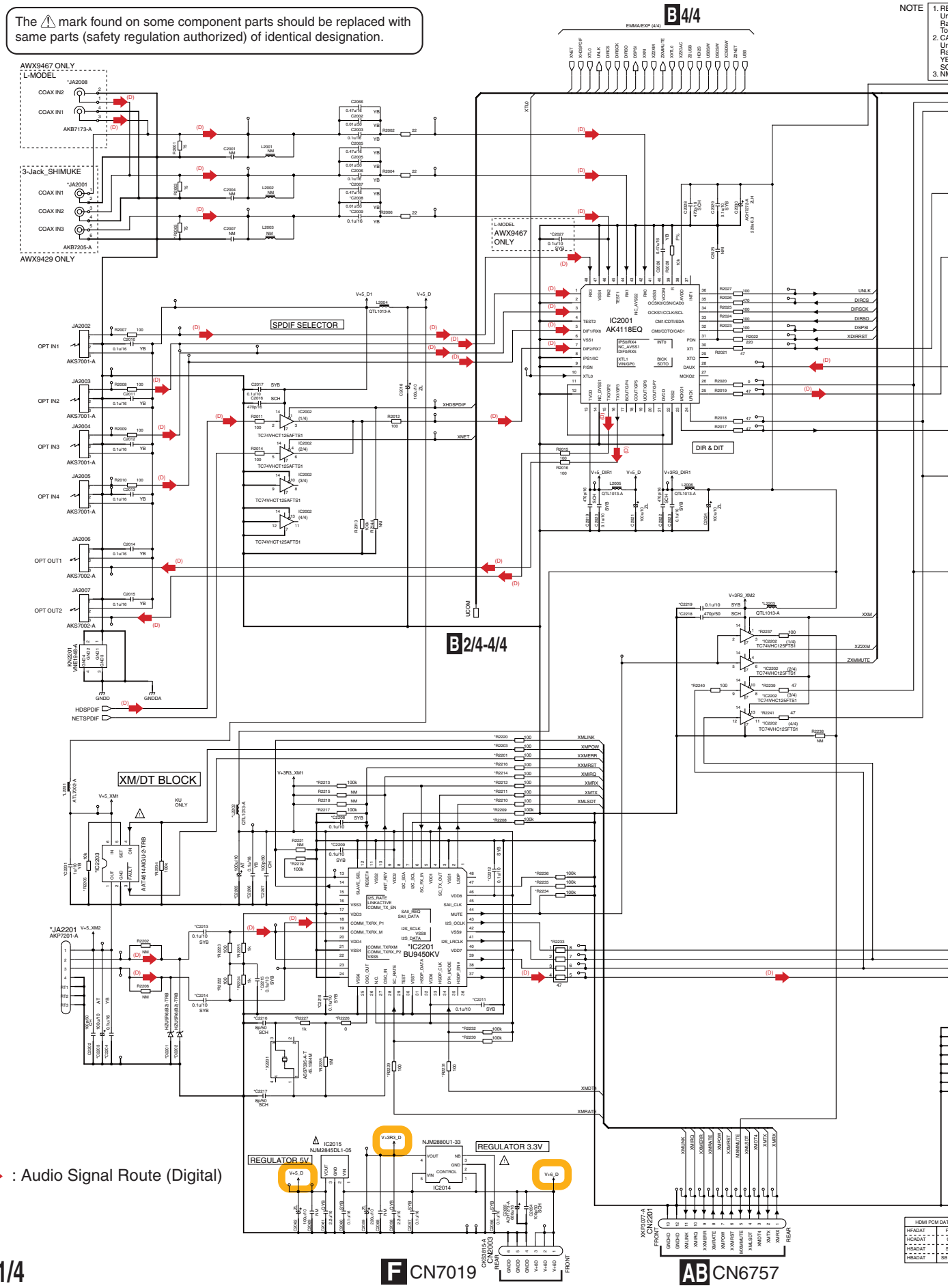
10. SCHEMATIC DIAGRAM

10.1 AUDIO ASSY




A AUDIO ASSY (AWX9434)
F CN7013
CN5002 9604S-19C
F CN7014
CN5003 9604S-21C
SW DOWN MIX
SW DOWN MIX SELECT IC5301
LSSN H L
IC5301(CONT) H L
SW DOWN MIX ON OFF
IC5221
BD3814FV
HEADPHONE AMP
CN5004 9607S-09F
CN5005 9607S-17F
CN5006 XKP3081-A
*CN5007 9607S-09F
*CN5008 9607S-11F
I CN7705
I CN7706
S CN6952
I CN7707
TO TUNER MODULE
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16W unless otherwise noted.
Toleranee: (J) ±5% unless otherwise noted.
2. CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
CH: CCSRCH CFHX: CFHXSQ
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.
: Audio Signal Route

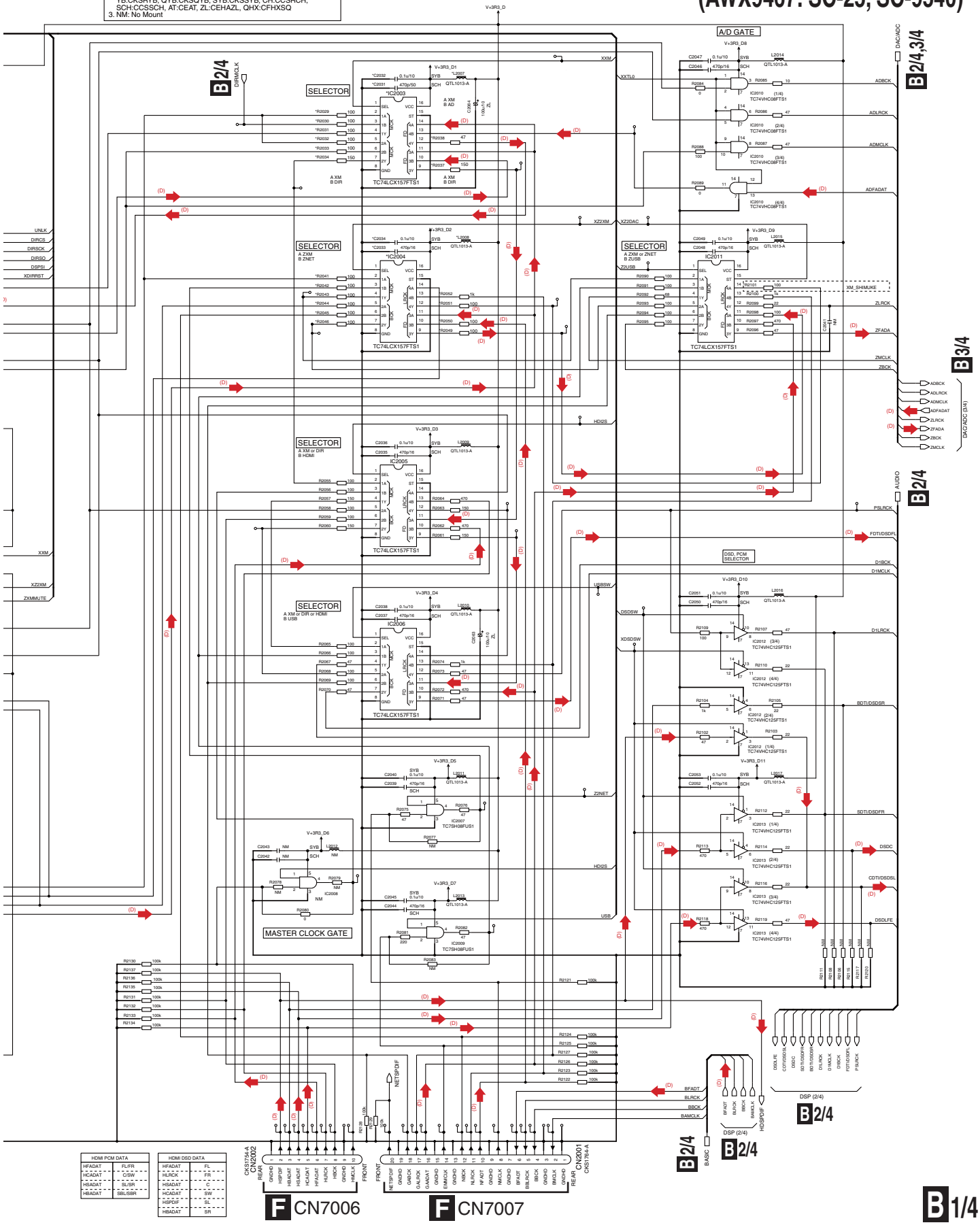
10.2 DSP ASSY (1/4)



NOTE

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W or NETWORKS-1/32W unless otherwise noted.
   Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   YB:CKSRYB, QYB:CKSQYB, SYB:CKSSYB, CH:CCSRCH,
   SCH:CCSSCH, AT:CEAT, ZL:CEHAZL, QHX:CFHXSQ
3. NM: No Mount

B 1/4 DSP ASSY (AWX9429: SC-27) (AWX9467: SC-25, SC-9540)

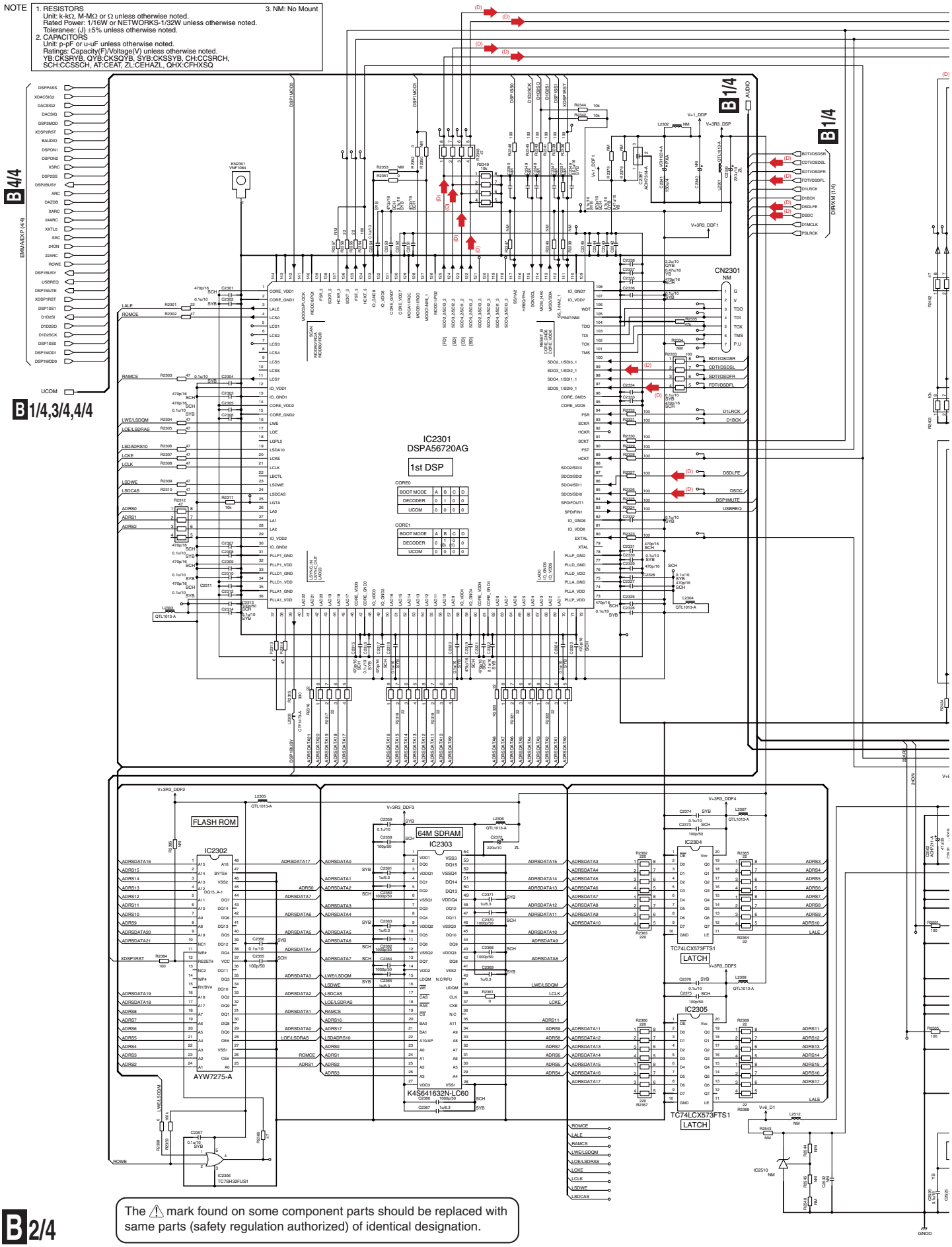


10.3 DSP ASSY (2/4)

NOTE

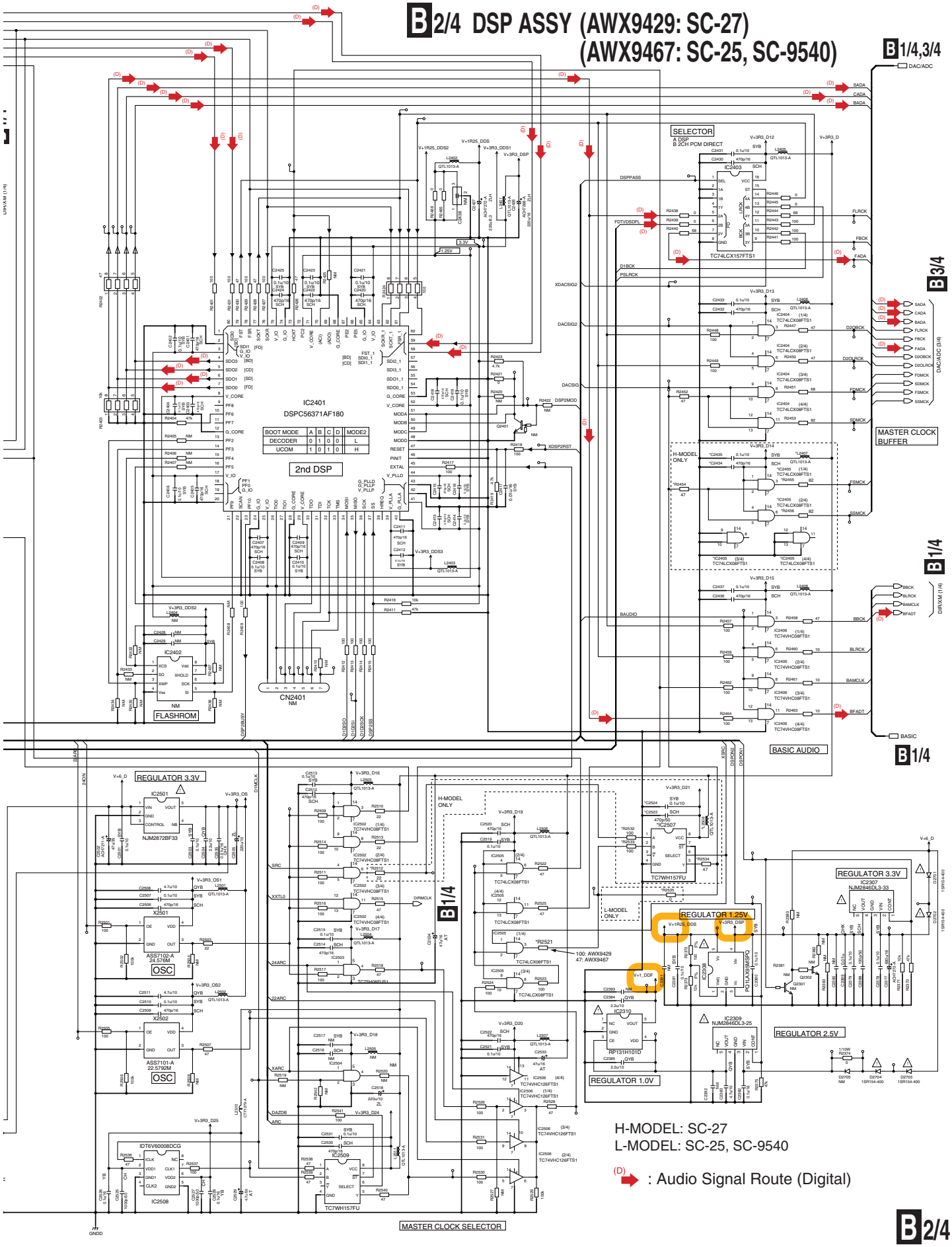
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W or NETWORKS-1/32W unless otherwise noted.
   Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   YB:CKSRYB, QYB:CKSQYB, SYB:CKSSYB, CH:CCSRCH,
   SCH:CCSSCH, AT:CEAT, ZL:CEHAZL, QHX:CFHXSQ

3. NM: No Mount

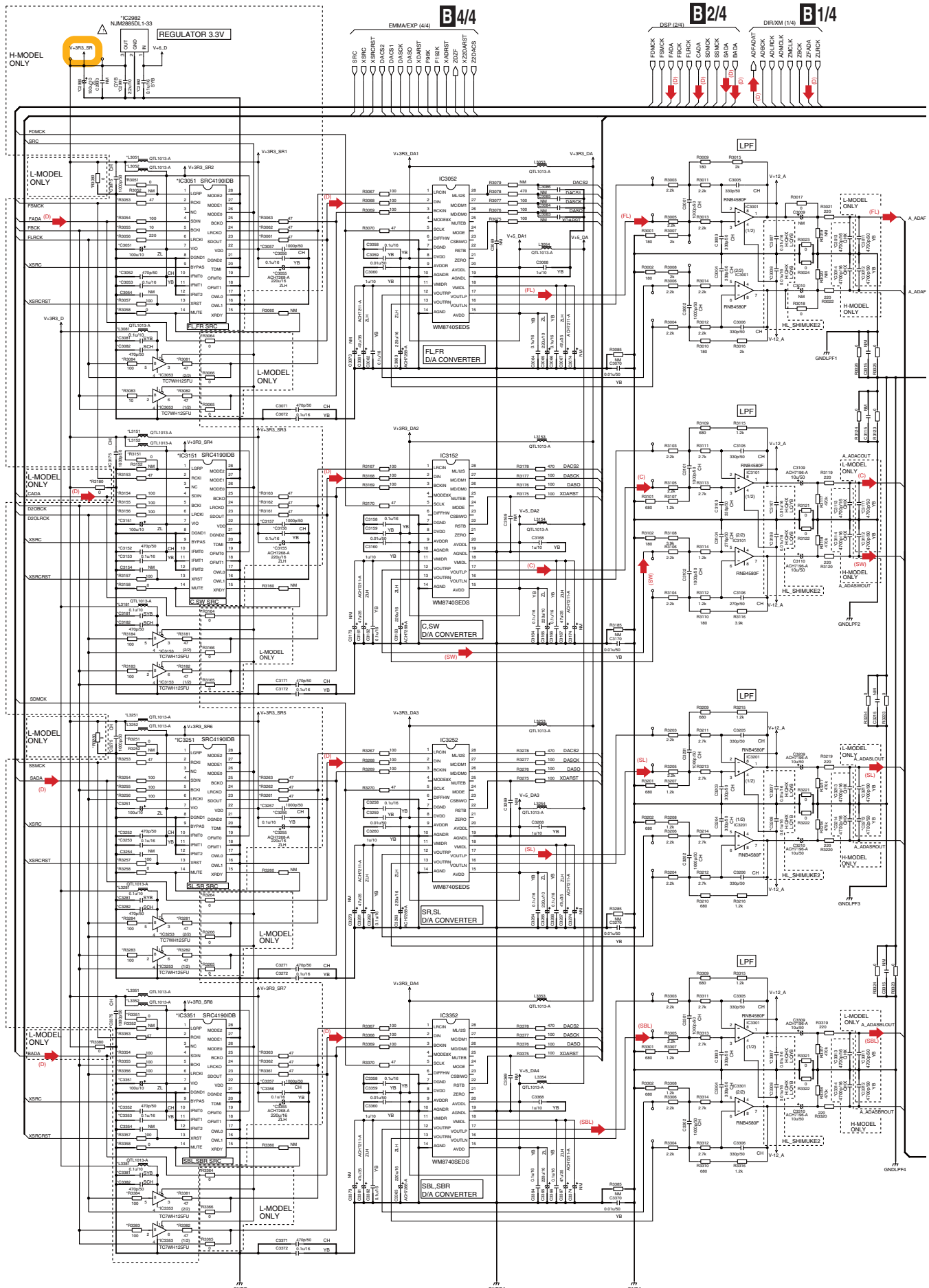


The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

B2/4 DSP ASSY (AWX9429: SC-27) (AWX9467: SC-25, SC-9540)



10.4 DSP ASSY (3/4)



B 3/4 DSP ASSY (AWX9429: SC-27) (AWX9467: SC-25, SC-9540)

B 1/4

B 1/4,2/4

DAC/ADC

UCOM

B 1/4,2/4,4/4

NOTE

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W or NETWORKS-1/32W unless otherwise noted.
   Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   YB:CKSRYB, QYB:CKSQYB, SYB:CKSSYB, CH:CCSRCH,
   SCH:CCSSCH, AT:CEAT, ZL:CEHAZL, QHX:CFHXSQ
3. NM: No Mount

: Audio Signal Route

(D) : Audio Signal Route (Digital)

H-MODEL: SC-27
L-MODEL: SC-25, SC-9540

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

HL_SHIMUKE2

	C3007	C3008
H-MODEL	0.01u/16	0.01u/16
L-MODEL	0.01u/50	0.01u/50

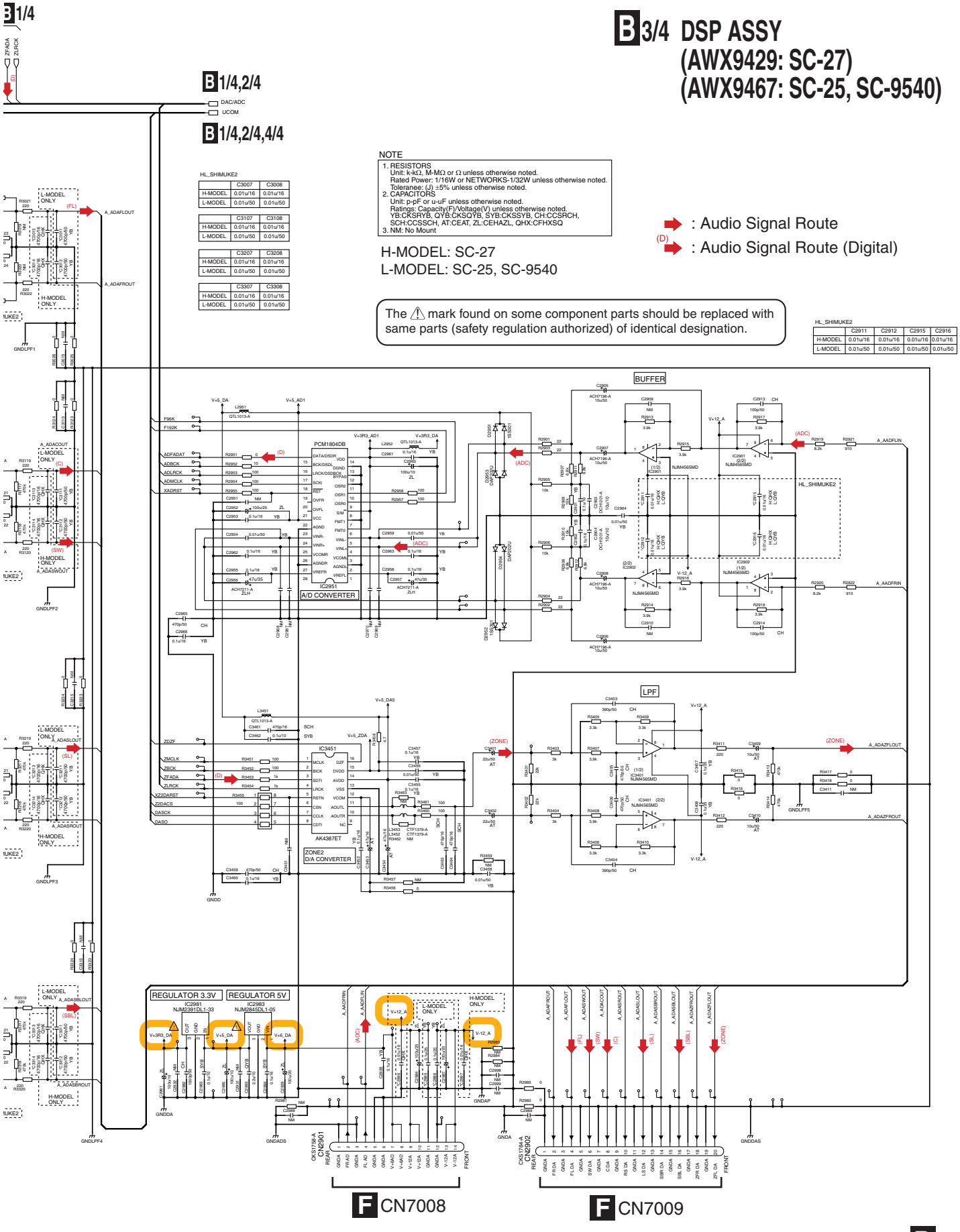
	C3107	C3108
H-MODEL	0.01u/16	0.01u/16
L-MODEL	0.01u/50	0.01u/50

	C3207	C3208
H-MODEL	0.01u/16	0.01u/16
L-MODEL	0.01u/50	0.01u/50

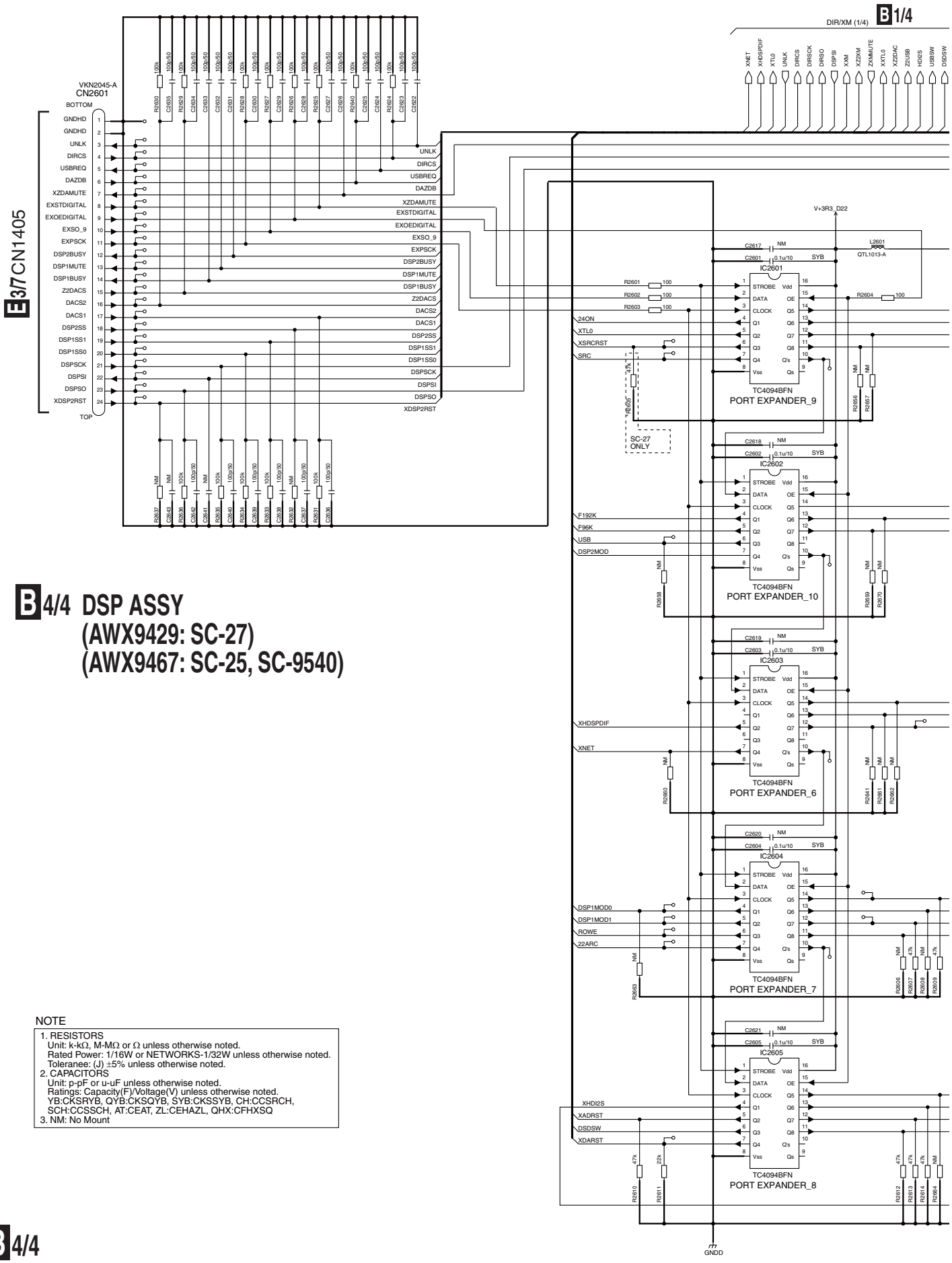
	C3307	C3308
H-MODEL	0.01u/16	0.01u/16
L-MODEL	0.01u/50	0.01u/50

HL_SHIMUKE2

	C2911	C2912	C2915	C2916
H-MODEL	0.01u/16	0.01u/16	0.01u/16	0.01u/16
L-MODEL	0.01u/50	0.01u/50	0.01u/50	0.01u/50



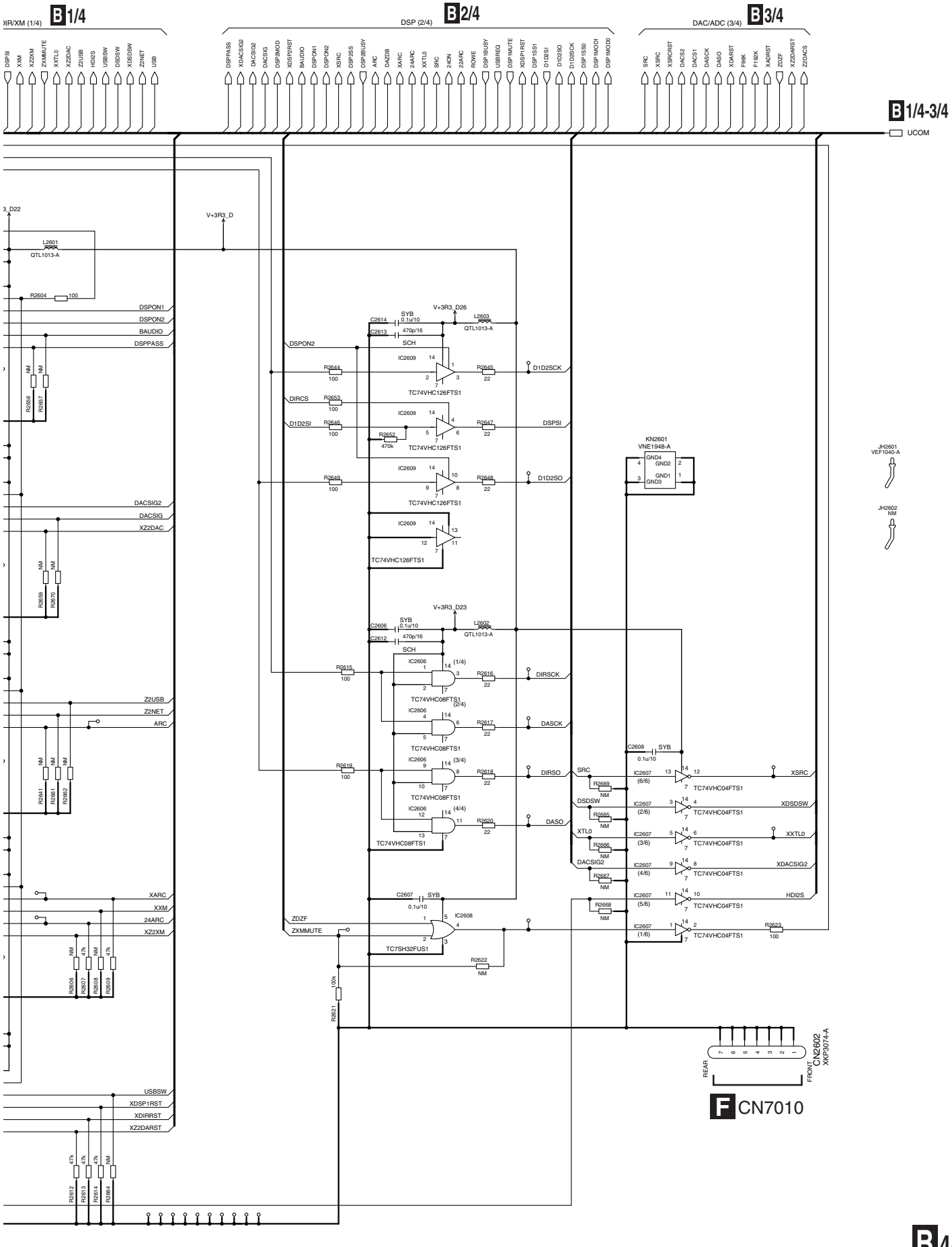
10.5 DSP ASSY (4/4)



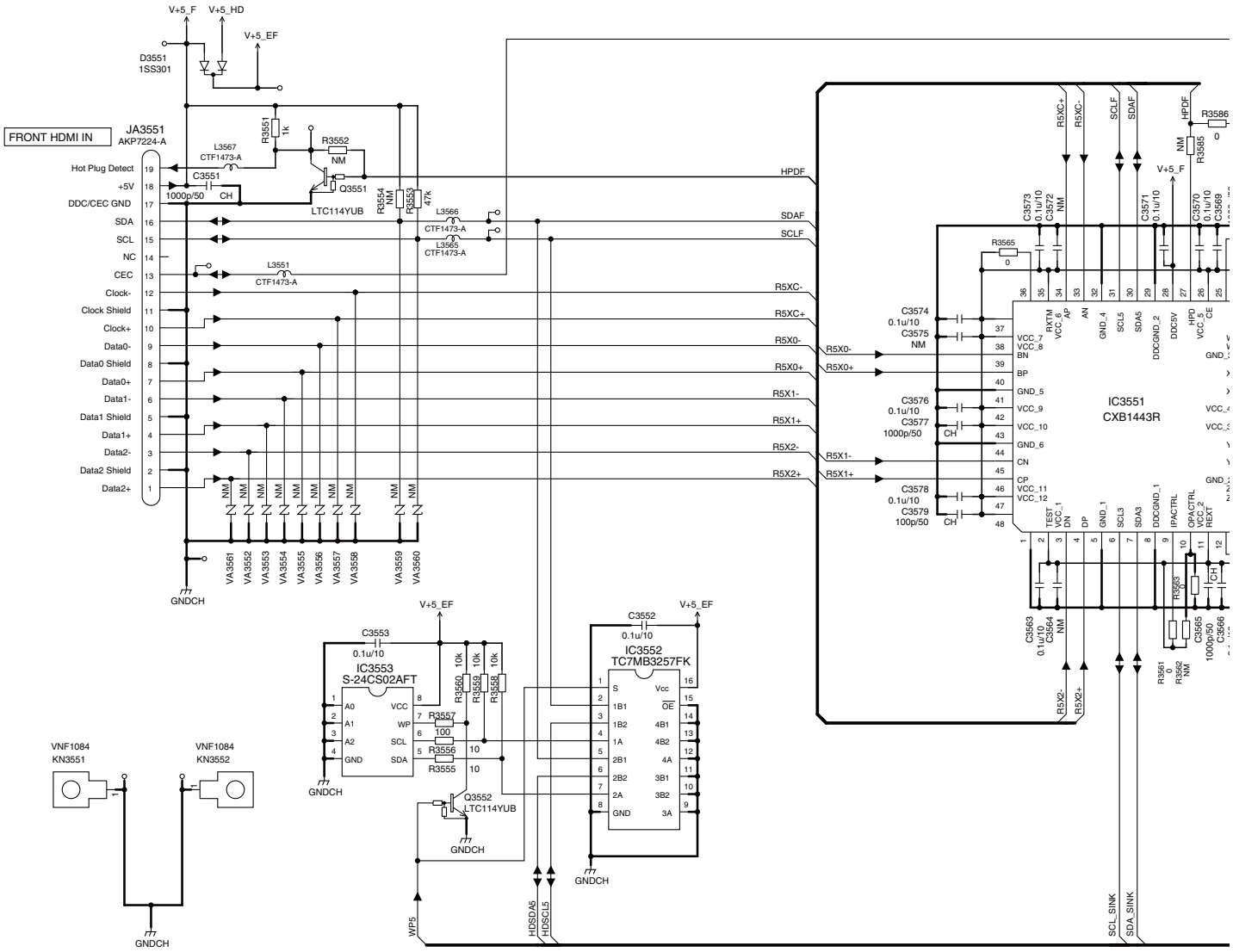
B 4/4 DSP ASSY
(AWX9429: SC-27)
(AWX9467: SC-25, SC-9540)

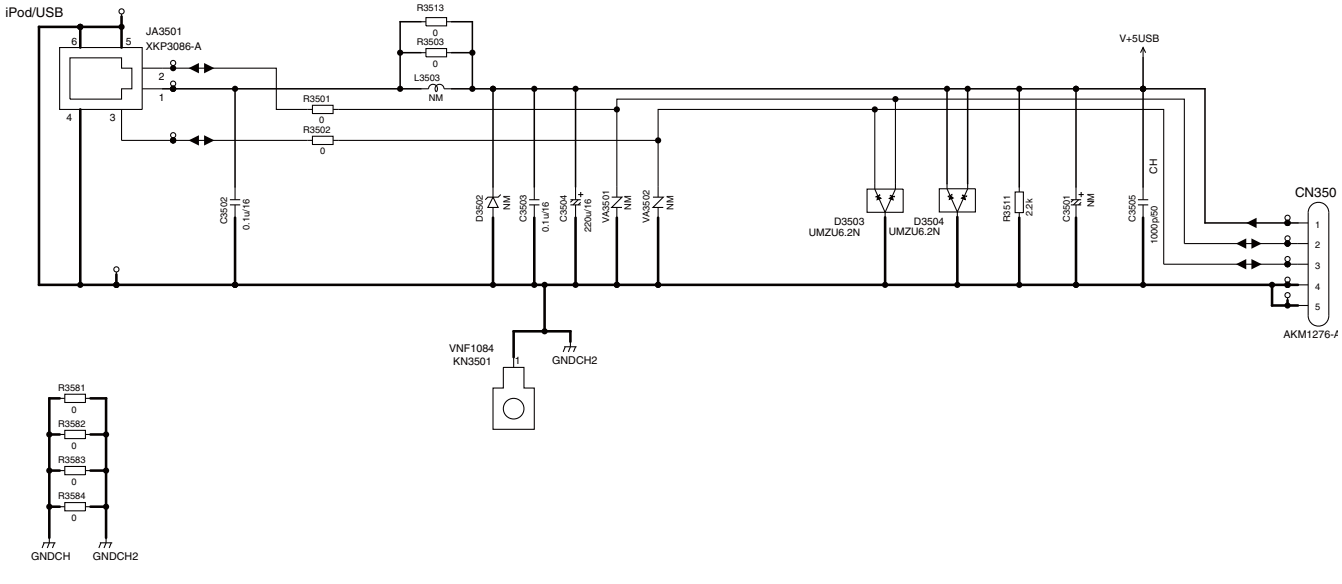
NOTE

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W or NETWORKS-1/32W unless otherwise noted.
   Toleranee: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   YB:CKSRYB, QYB:CKSQYB, SYB:CKSSYB, CH:CCSRCH,
   SCH:CCSSCH, AT:CEAT, ZL:CEHAZL, QHX:CFHXSQ
3. NM: No Mount

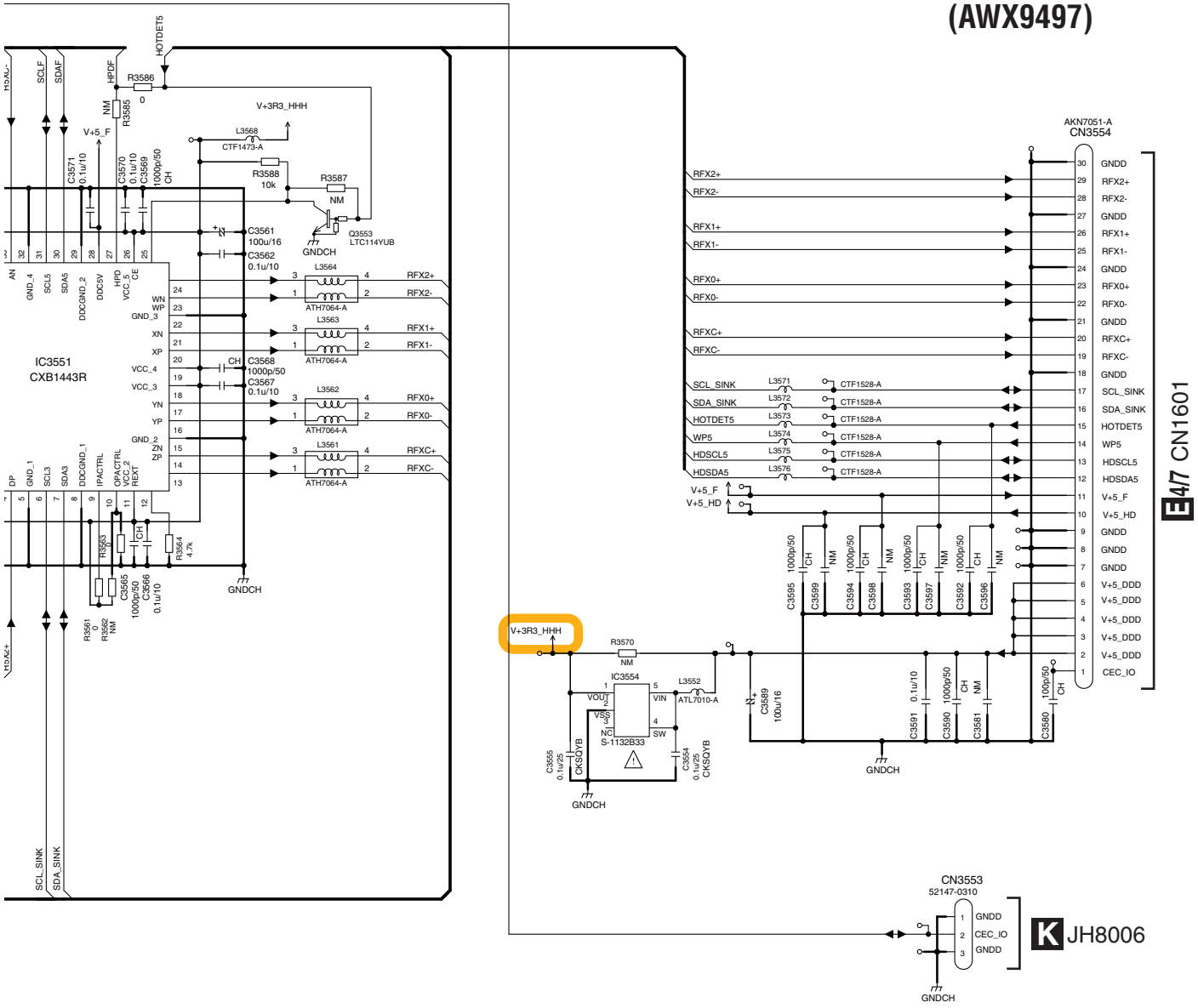

B 1/4
DIR/XM (1/4)
DSPSI
XXM
XZ2XM
ZXMMUTE
XXTL0
XZ2DAC
Z2USB
HDI2S
USBSW
DSDSW
XDSDSW
Z2NET
USB
B 2/4
DSP (2/4)
DSPPASS
XDACSIG2
DACSIG
DSP3MOD
XDSP2RST
BAUDIO
DSPON1
DSPON2
XSRC
DSP2SS
DSP2BUSY
AHC
DAZDB
XARC
24ARC
XXTL0
SRC
24ON
23ARC
ROWE
DSP1BUSY
USBREQ
DSP1MUTE
XDSP1RST
DSP1SS1
D1D2SI
D1D2SO
D1D2SCK
DSP1SS0
DSP1MOD1
DSP1MOD0
B 3/4
DAC/ADC (3/4)
SRC
XSRC
XSRCRST
DACS2
DACS1
DASCK
DASO
XDARST
F96K
F192K
XADRST
ZDZF
XZ2DARST
Z2DACS
B 1/4-3/4
UCOM
V+3R3_D22
V+3R3_D
L2601
QTL1013-A
R2604
100
DSPON1
DSPON2
BAUDIO
DSPPASS
R2656
R2657
NM
DACSIG2
DACSIG
XZ2DAC
R2659
R2670
Z2USB
Z2NET
ARC
R2661
R2662
R2641
XARC
XXM
24ARC
XZ2XM
R2606
R2607
R2608
R2609
47k
USBSW
XDSP1RST
XDIRRST
XZ2DARST
R2612
R2613
R2614
R2664
V+3R3_D26
L2603
QTL1013-A
C2614
SYB
0.1u/10
C2613
470p/16
SCH
IC2609
TC74VHC126FTS1
DSPON2
R2644
R2645
D1D2SCK
DIRCS
R2653
DSPSI
D1D2SI
R2646
R2647
R2652
470k
D1D2SO
R2649
R2648
V+3R3_D23
L2602
QTL1013-A
C2606
C2612
IC2606
TC74VHC08FTS1
R2615
R2616
DIRSCK
R2617
DASCK
R2619
R2618
DIRSO
R2620
DASO
C2607
C2608
IC2608
TC7SH32FUS1
ZDZF
ZXMMUTE
R2622
R2621
100k
KN2601
VNE1948-A
GND4
GND2
GND1
GND3
JH2601
VEF1040-A
JH2602
NM
IC2607
TC74VHC04FTS1
SRC
R2669
XSRC
DSDSW
R2665
XDSDSW
XTL0
R2666
XXTL0
DACSIG2
R2667
XDACSIG2
R2668
HDI2S
R2623
CN2602
XKF5074-A
REAR
FRONT
F CN7010

10.6 FRONT-HDMI ASSY





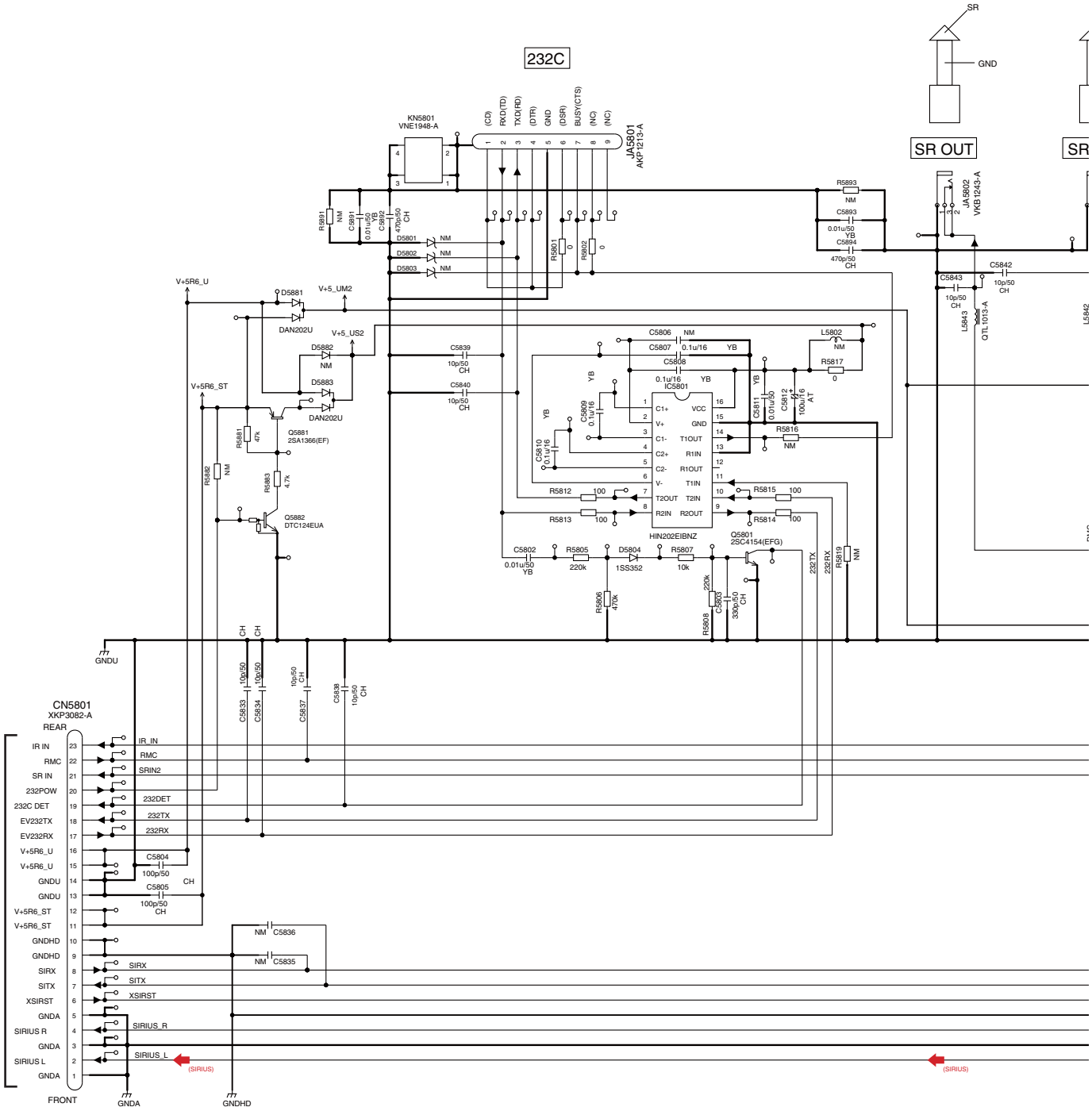
C FRONT-HDMI ASSY (AWX9497)



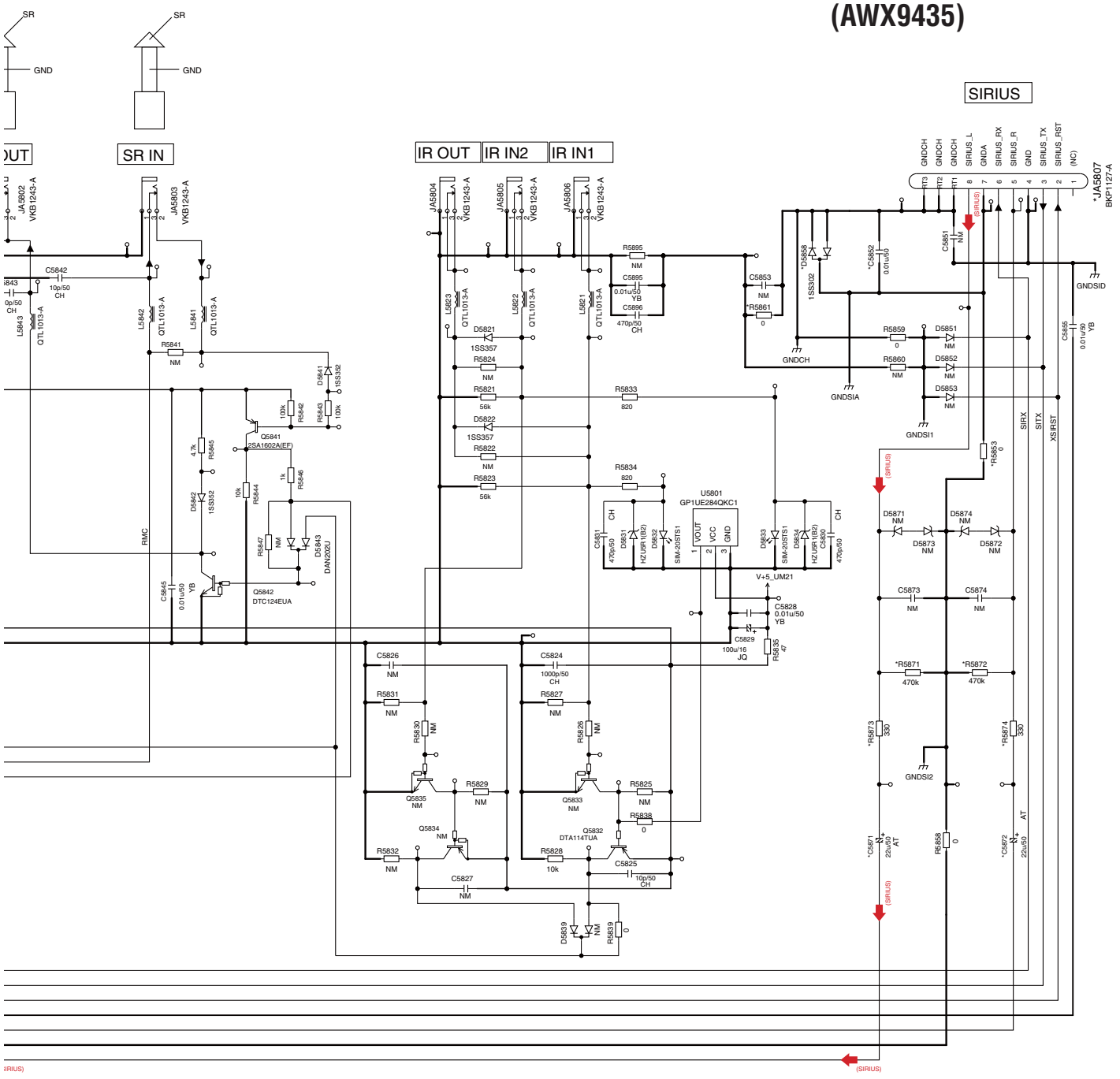
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16W unless otherwise noted.
Toleranee: (J) ±5% unless otherwise noted.
2. CAPACITORS
No marked Capacitors are CEAT or CKSRYB or CKSSYB.
CH: CCSRCH or CCSSCH
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

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

10.7 232C_CONTROL ASSY



D 232C_CONTROL ASSY (AWX9435)

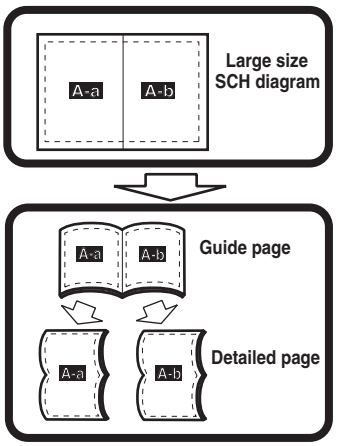


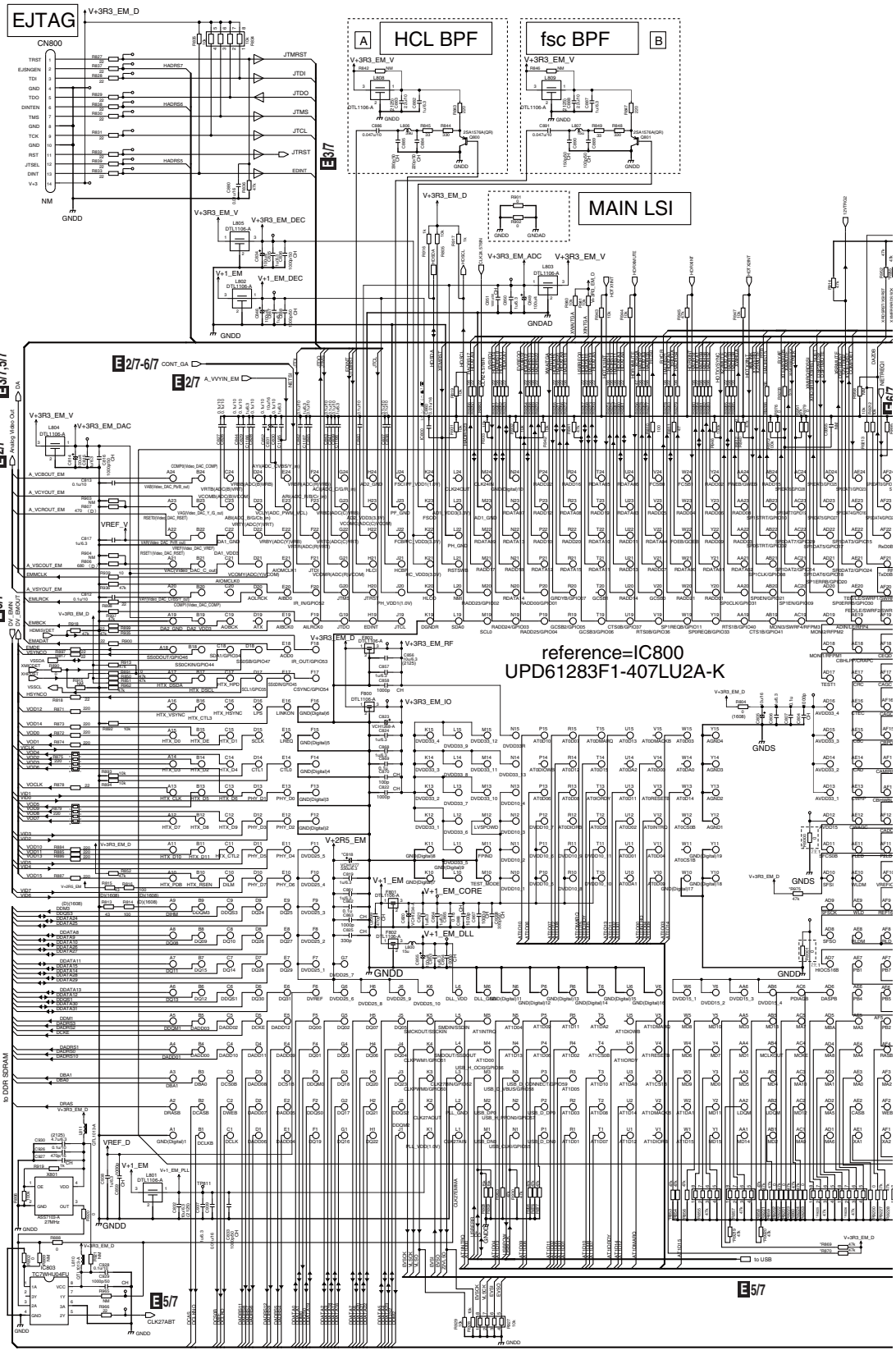
NOTE

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W unless otherwise noted.
   Toleranee: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   YB:CKSRYB, CH:CCSRCH, AT:CEAT, JQ:CEJQ
3. NM: No Mount

➡ : Audio Signal Route

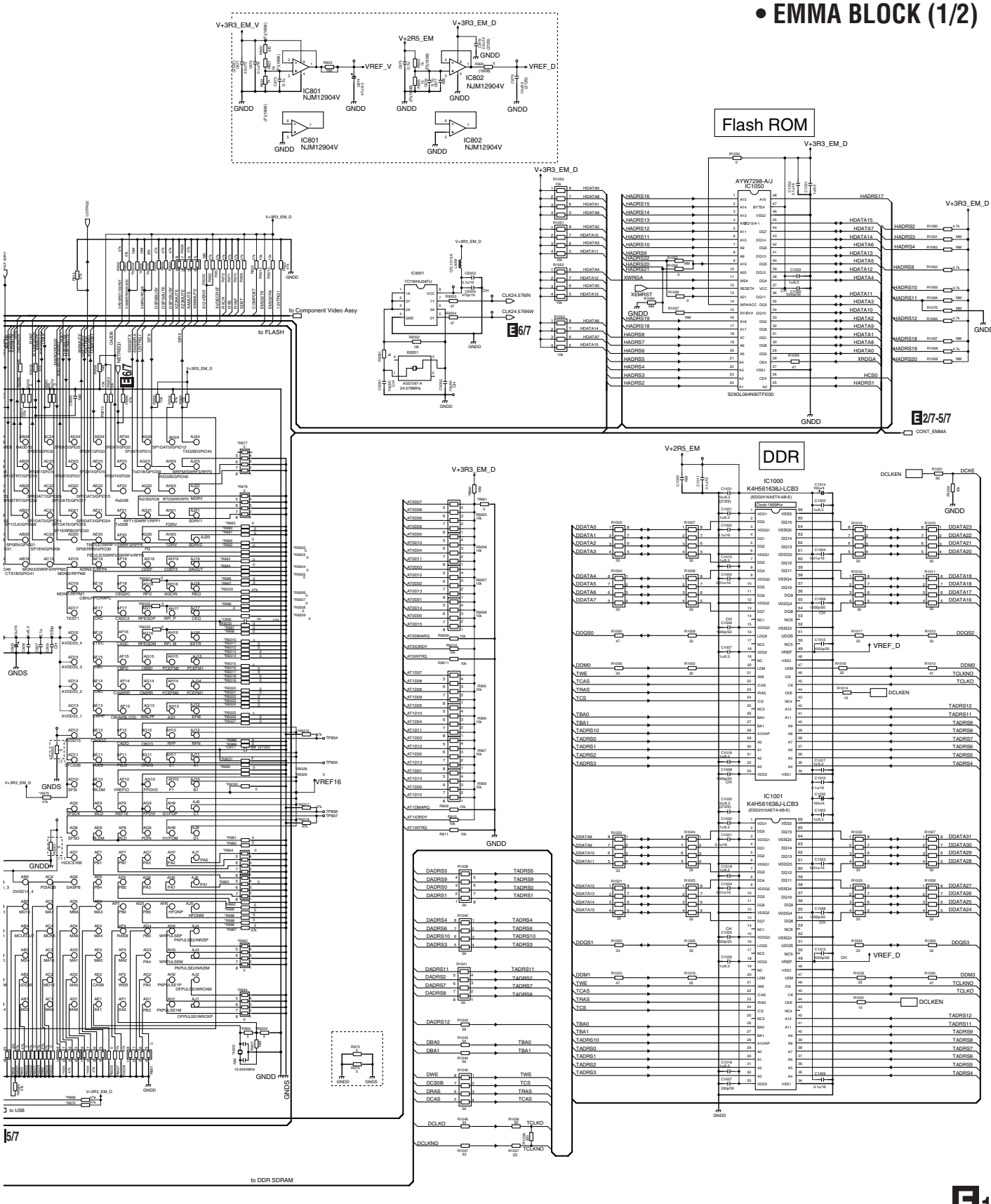
10.8 DIGITAL MAIN ASSY (1/7)





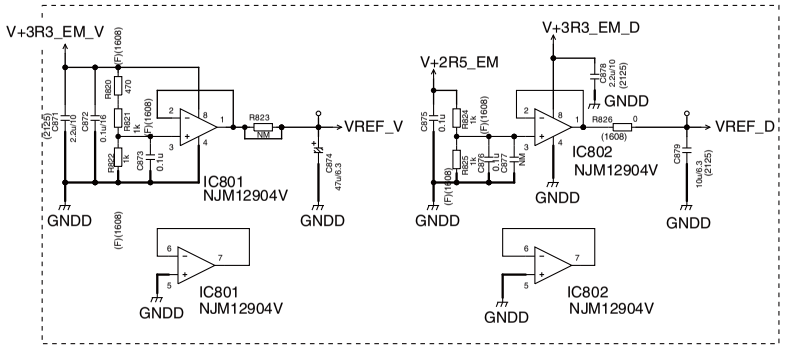
E 1/7 DIGITAL MAIN ASSY (AWX9463)

• EMMA BLOCK (1/2)

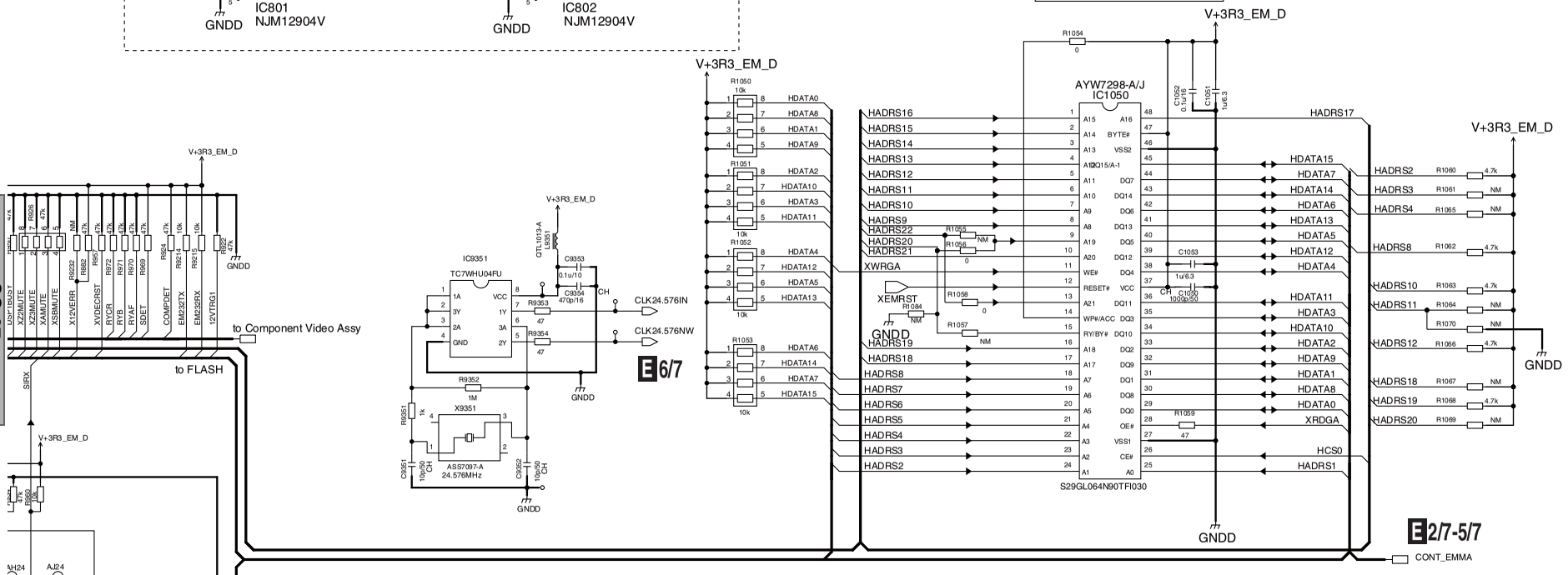


E1/7 DIGITAL MAIN ASSY (AWX9463) • EMMA BLOCK (1/2)

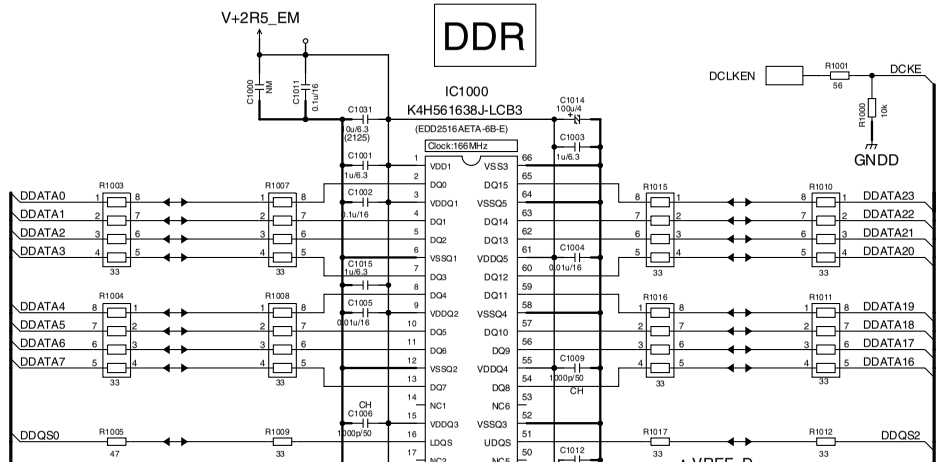
A-a A-b

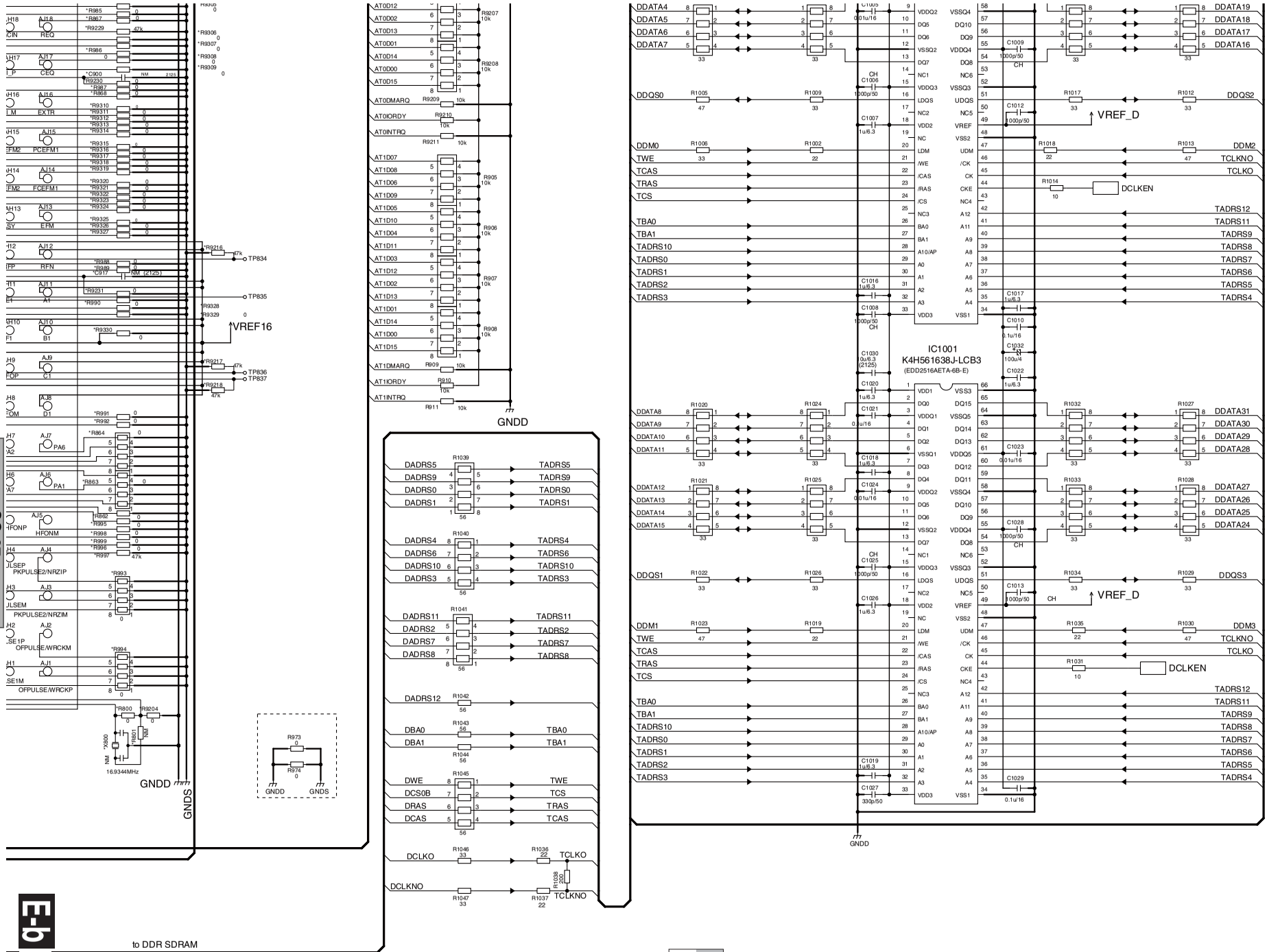


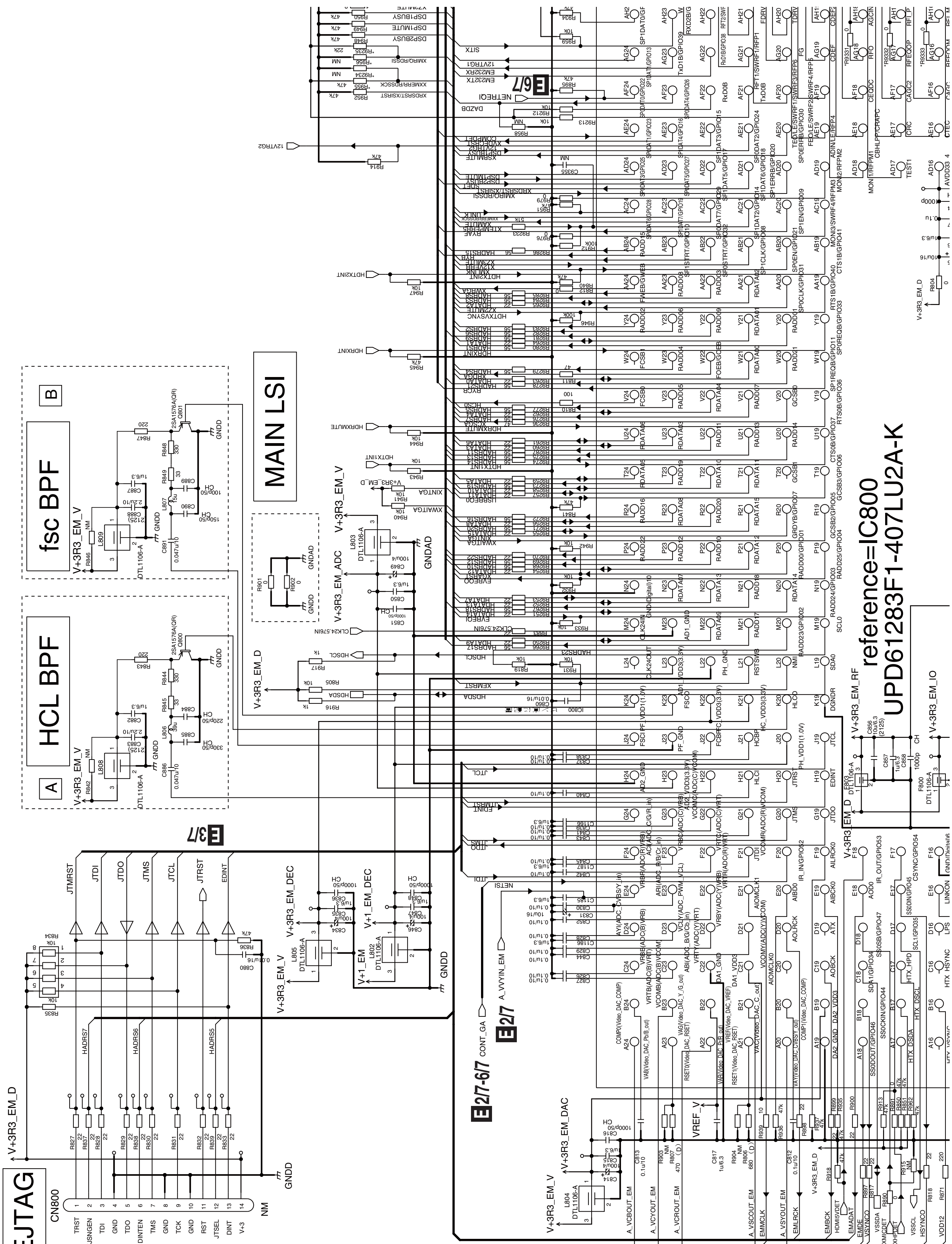
Flash ROM



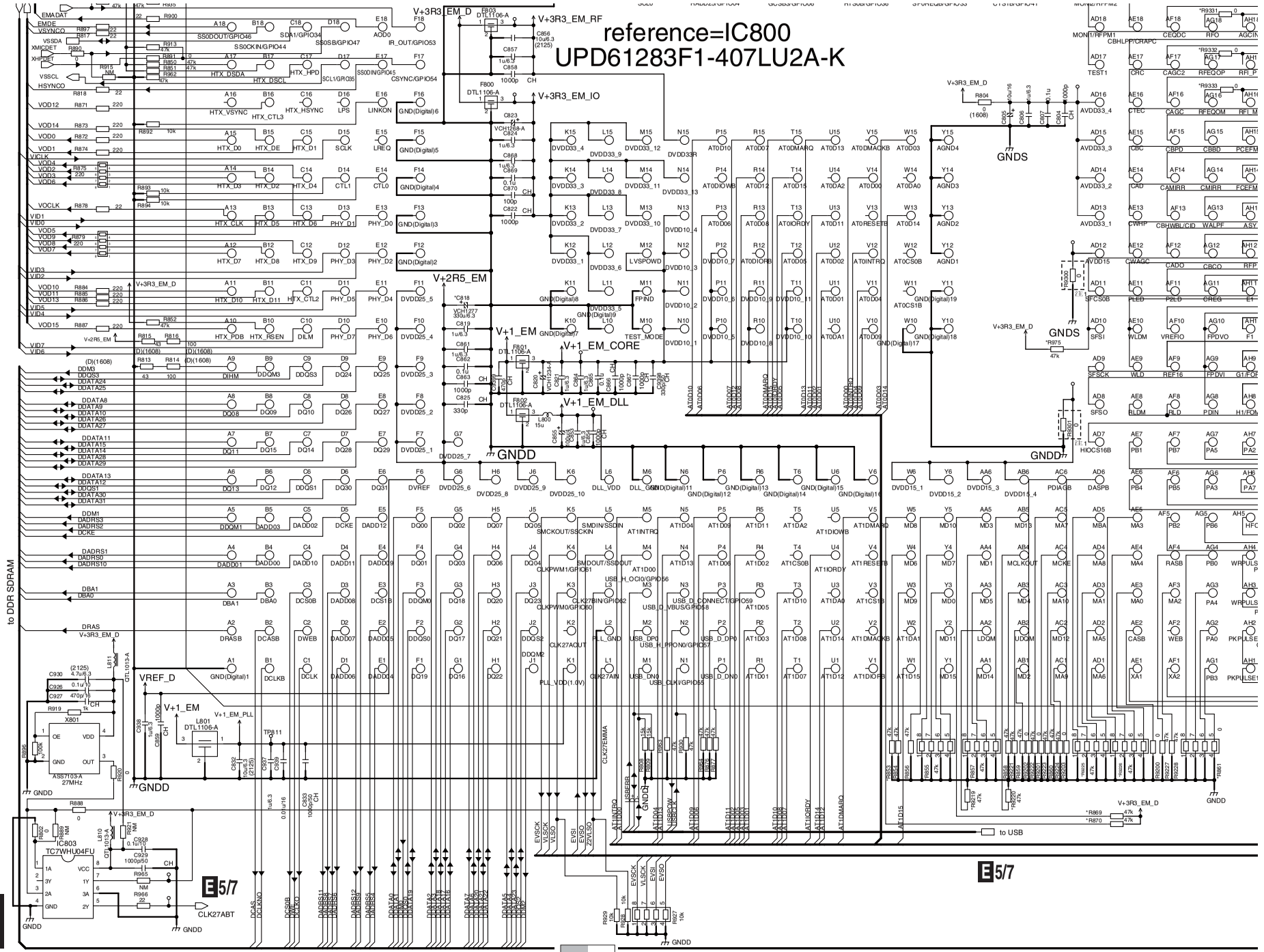
DDR



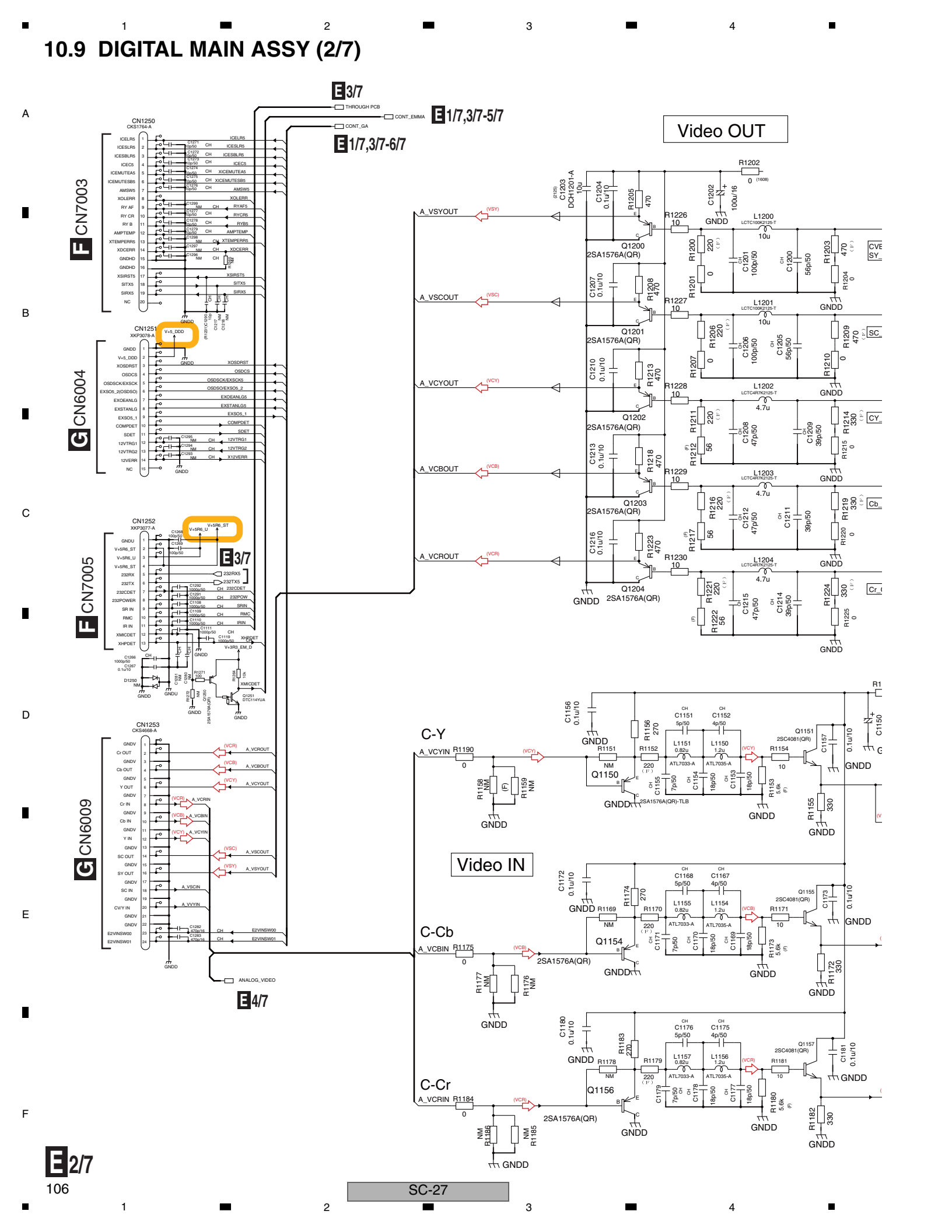

IC1001
K4H561638J-LCB3
(EDD2516AETA-6B-E)
VREF16
VREF_D
DCLKEN
GNDD
GNDS
to DDR SDRAM
16.9344MHz
TADRS12
TADRS11
TADRS9
TADRS8
TADRS7
TADRS6
TADRS5
TADRS4
DDATA31
DDATA30
DDATA29
DDATA28
DDATA27
DDATA26
DDATA25
DDATA24
DDATA19
DDATA18
DDATA17
DDATA16
DDQS2
DDQS3
DDM2
DDM3
TCLKNO
TCLKO
TBA0
TBA1
TWE
TCS
TRAS
TCAS
DBA0
DBA1
DCLKO
DCLKNO
TADRS5
TADRS9
TADRS0
TADRS1
TADRS4
TADRS6
TADRS10
TADRS3
TADRS11
TADRS2
TADRS7
TADRS8
TADRS12


EJTAG
HCL BPF
fsc BPF
MAIN LSI
reference=IC800
UPD61283F1-407LU2A-K

E-a 1/7

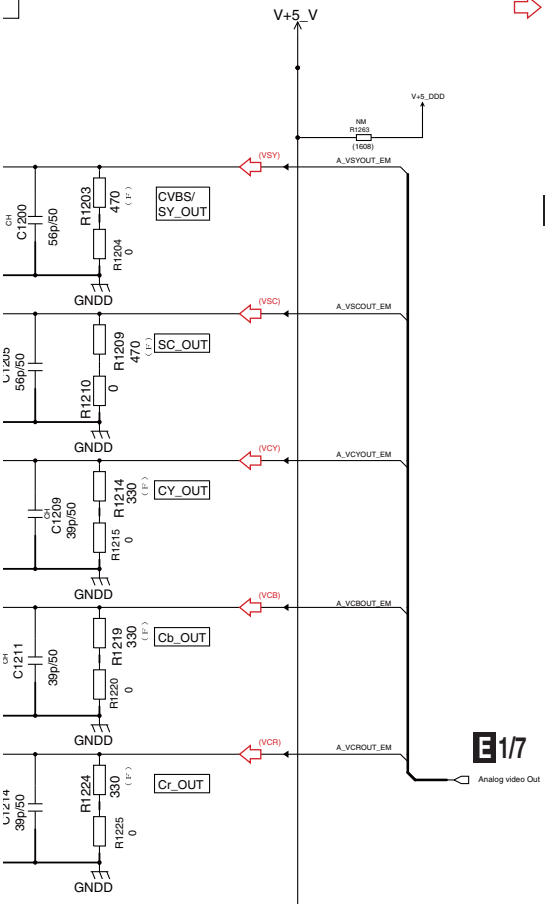

reference=IC800
UPD61283F1-407LU2A-K
V+3R3_EM_D
V+3R3_EM_RF
V+3R3_EM_IO
V+2R5_EM
V+1_EM
V+1_EM_CORE
V+1_EM_DLL
V+1_EM_PLL
GNDD
GNDS
VREF_D
to DDR SDRAM
to USB
IC803
TC7WHU04FU
X801
ASS7103-A
27MHz
CLK27ABT
E5/7
E-a 1/7
A-a
A-b
SC-27
105

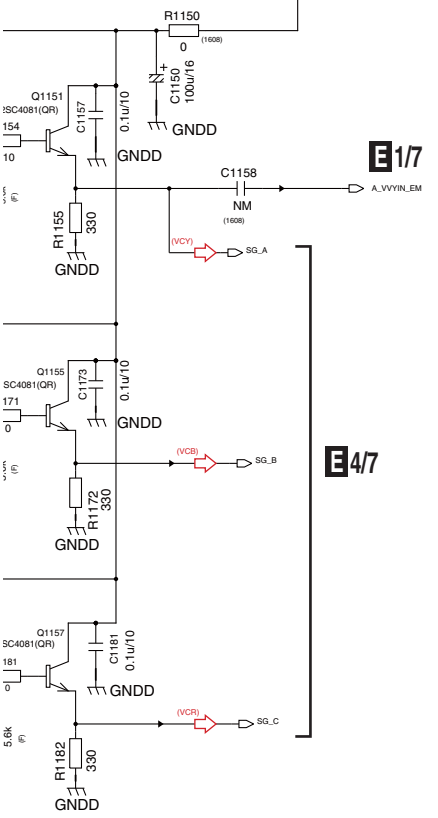
10.9 DIGITAL MAIN ASSY (2/7)

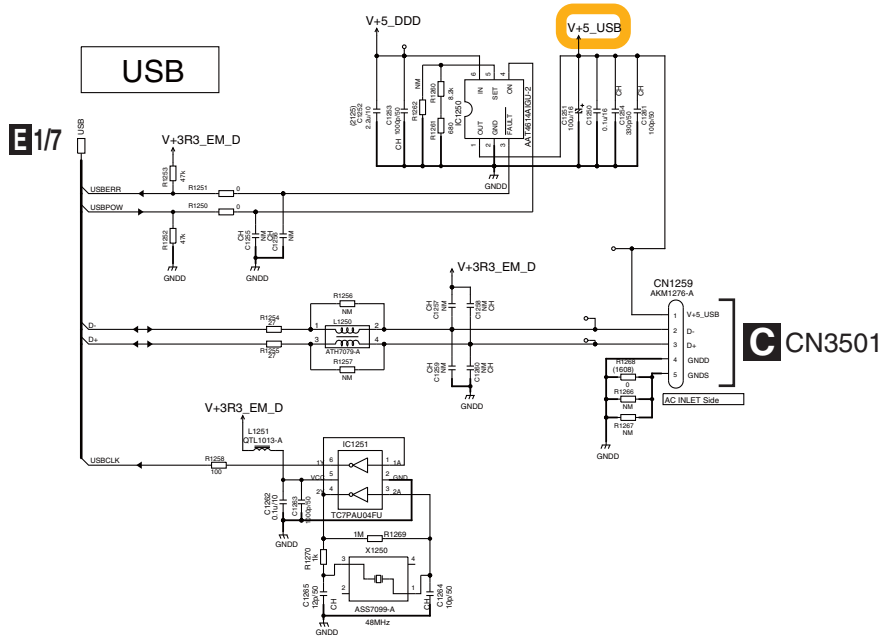


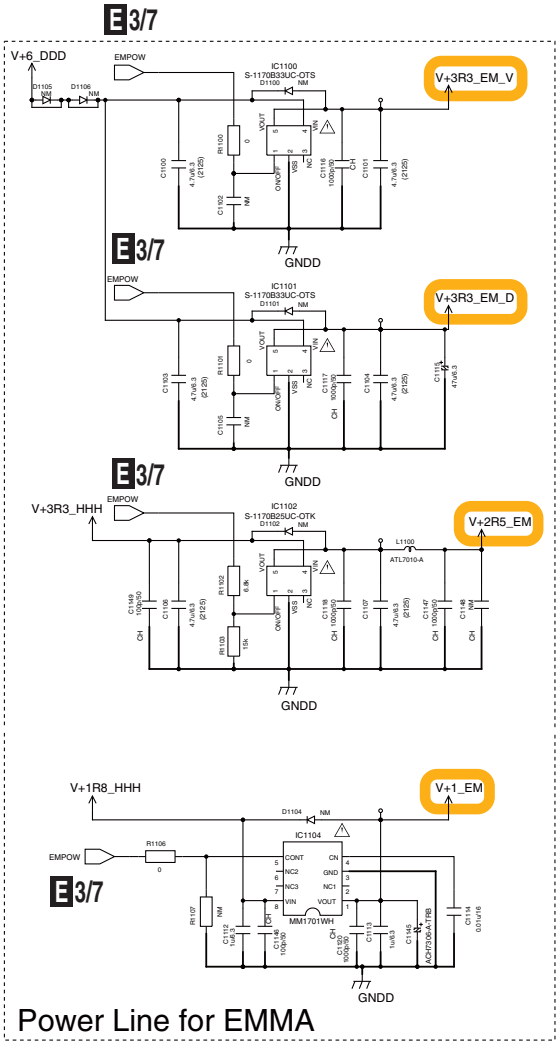
E2/7 DIGITAL MAIN ASSY (AWX9463)
• EMMA BLOCK (2/2)

: Video Signal Route

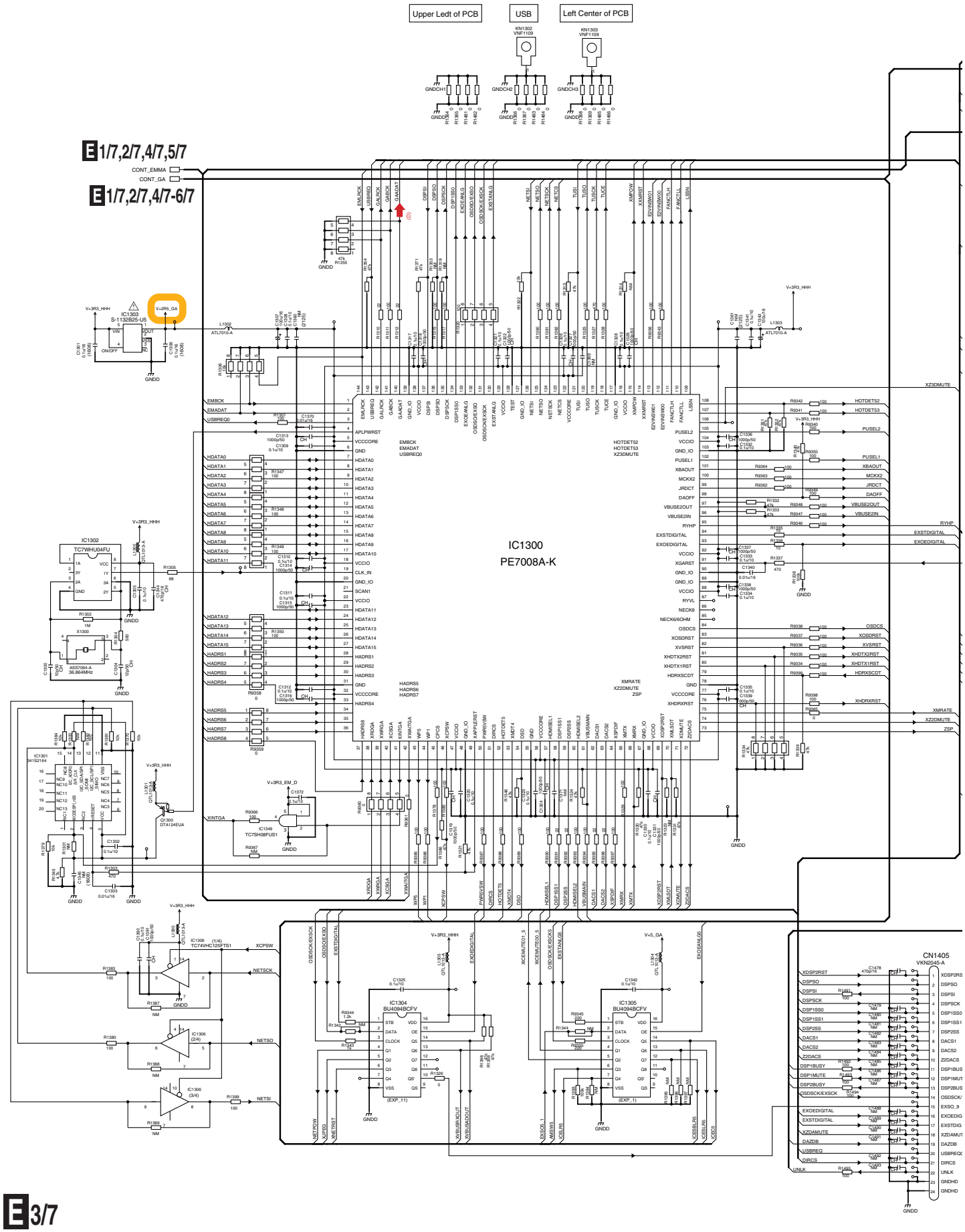






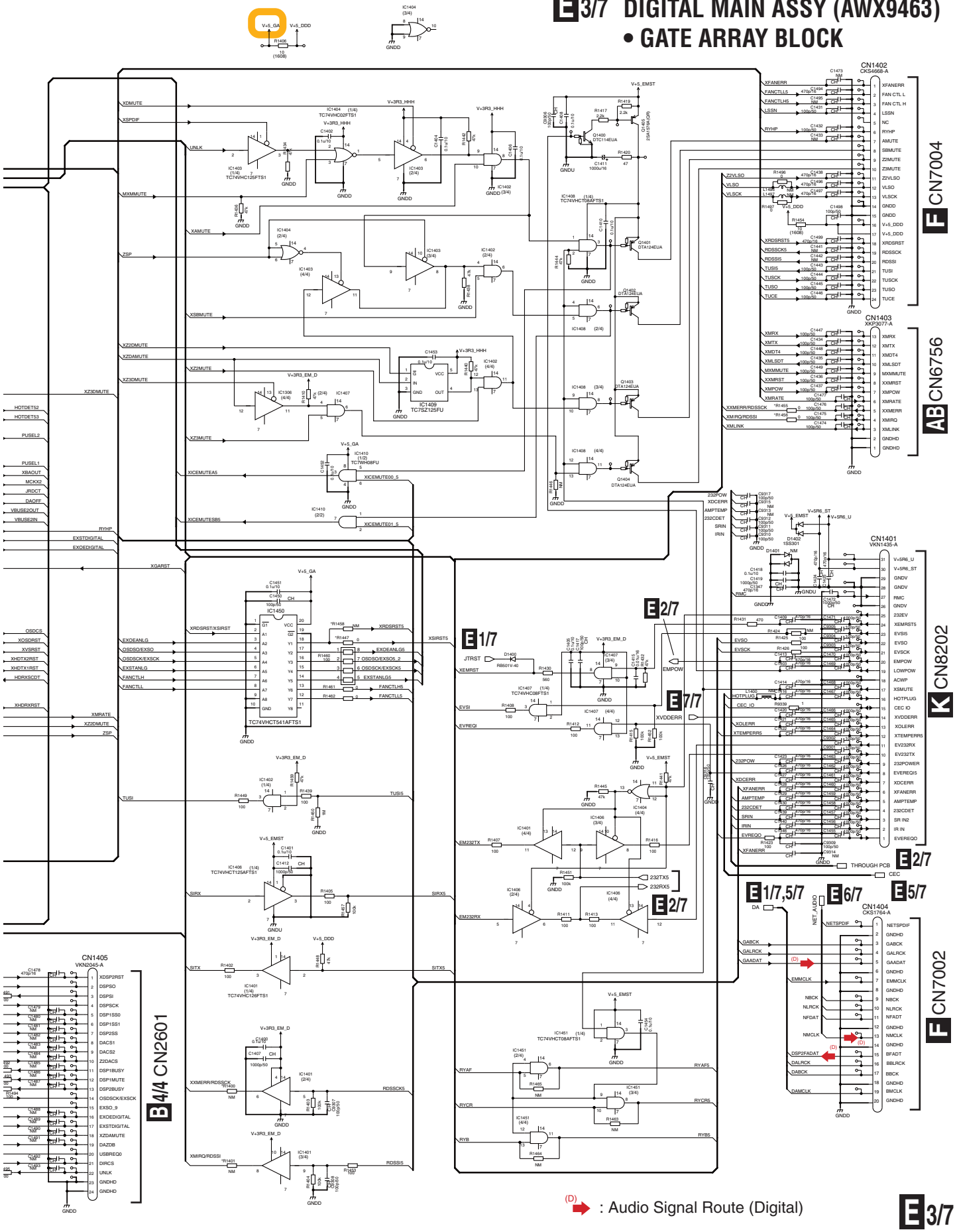


10.10 DIGITAL MAIN ASSY (3/7)

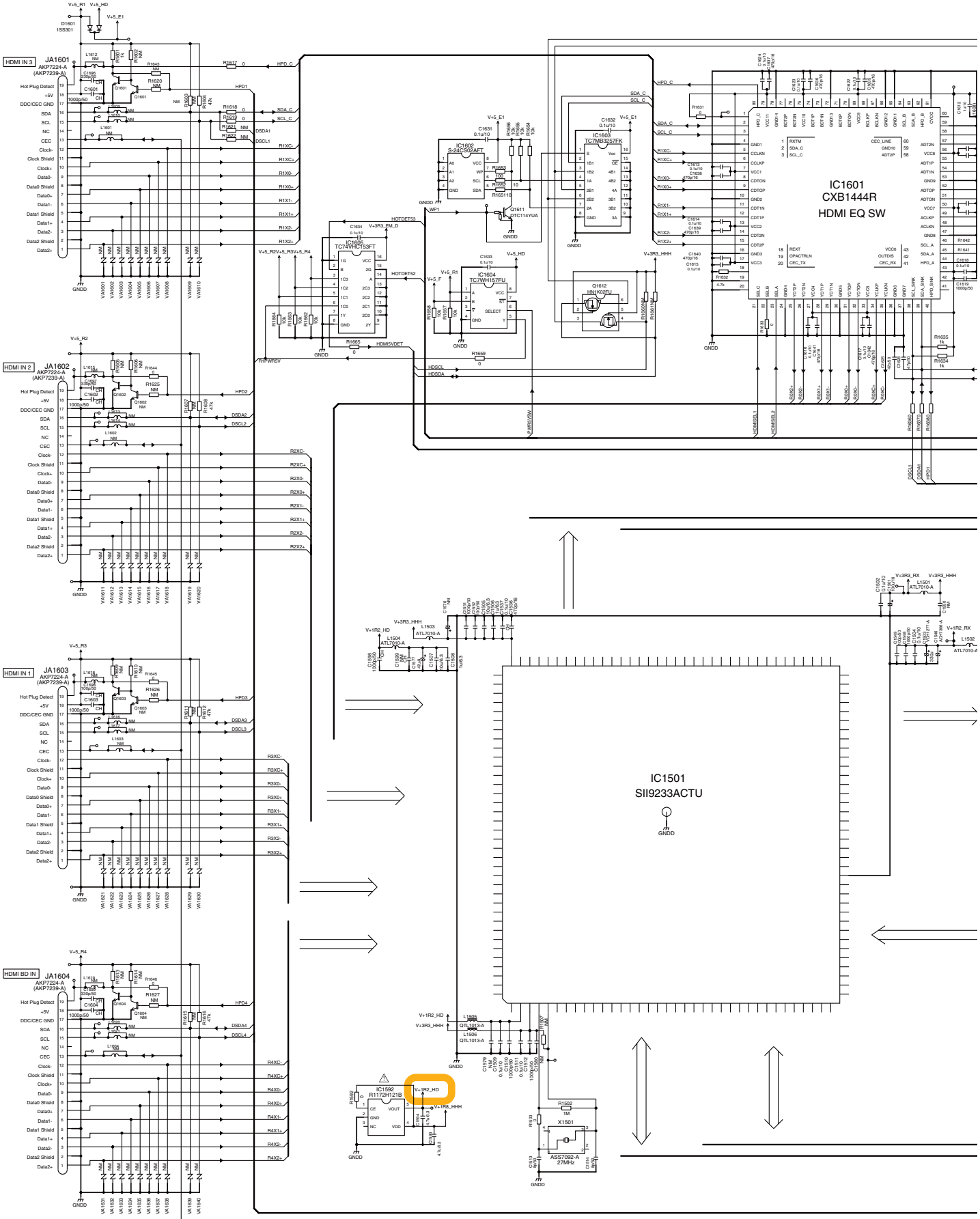


E3/7

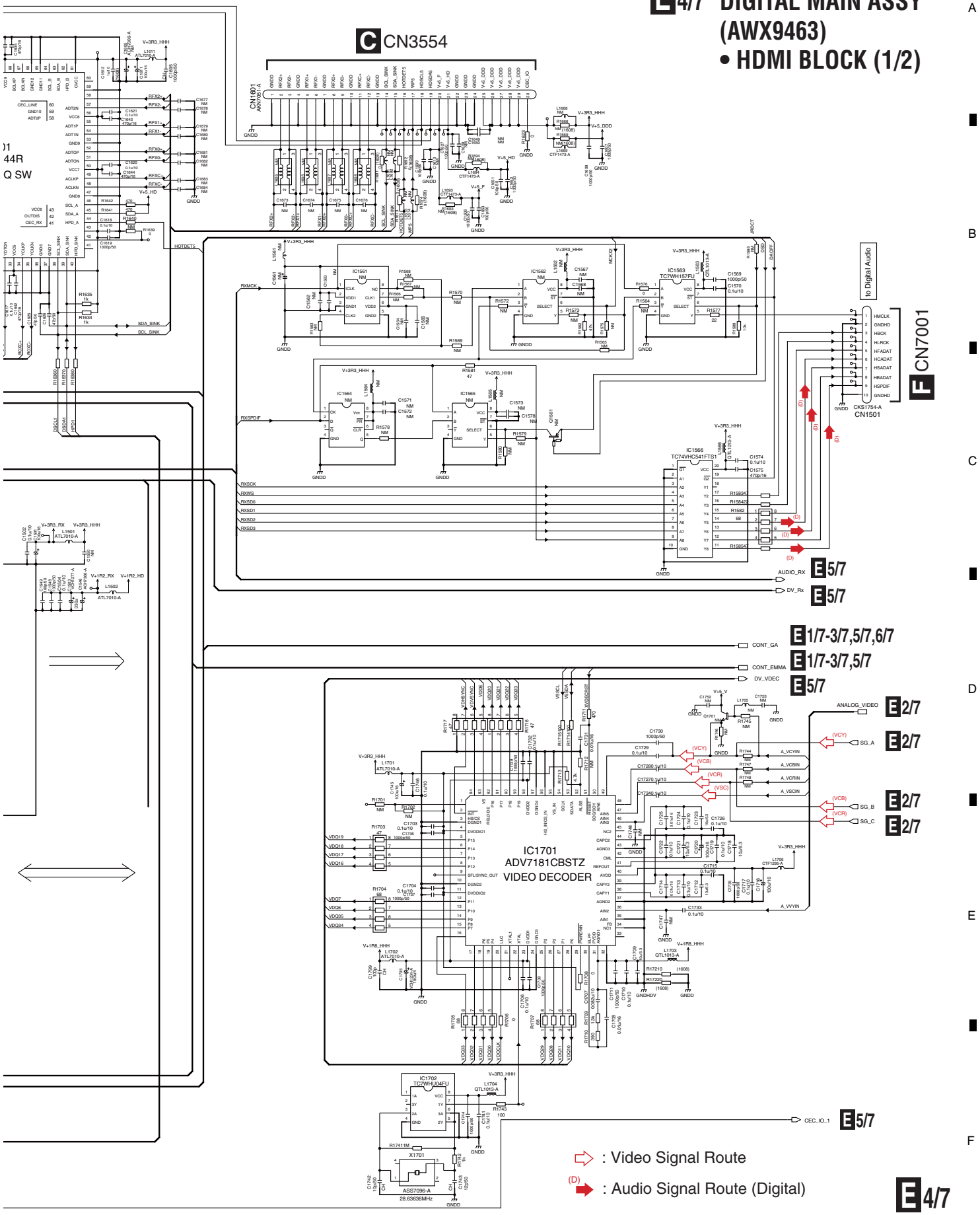
SC-27


CN1402
CKS4668-A
CN1403
XKP3077-A
CN1401
VKN1435-A
CN1404
CKS1764-A
CN1405
VKN2045-A
IC1450
TC74VHCT541AFTS1
IC1409
TC7SZ125FU
IC1410
TC7WH08FU
IC1407
TC74VHC08FTS1
IC1406
TC74VHCT125AFTS1
IC1401
TC74VHCT126FTS1
IC1403
TC74VHC125FTS1
IC1404
TC74VHC02FTS1
IC1408
TC74VHCT08AFTS1
IC1402
IC1451
TC74VHCT08AFTS1
XDMUTE
XSPDIF
UNLK
MXMMUTE
XAMUTE
ZSP
XSBMUTE
XZ2DMUTE
XZDAMUTE
XZ2MUTE
XZ3DMUTE
XZ3MUTE
XICEMUTEAS
XICEMUTESBS
XICEMUTE00_S
XICEMUTED1_S
XGARST
XRDSRST/XSIRST
XRDSRST5
XSIRST5
EXOEANLG
OSDSO/EXSO
OSDSCK/EXSCK
EXSTANLG
FANCTLH
FANCTLL
EXOEANLG5
OSDSO/EXSO5_2
OSDSCK/EXSCK5
EXSTANLG5
FANCTLH5
FANCTLL5
TUSI
TUSIS
SIRX
SIRX5
SITX
SITX5
XXMERR/RDSSCK
RDSSCK5
XMIRQ/RDSSI
RDSSIS
JTRST
XEMRST
EVSI
EVREQI
EMPOW
XVDDERR
232TX5
232RX5
EM232TX
EM232RX
RYAF
RYAF5
RYCR
RYCR5
RYB
RYB5
THROUGH PCB
CEC
DA
GABCK
GALRCK
GAADAT
EMMCLK
NBCK
NLRCK
NFDAT
NMCLK
DSP2FADAT
DALRCK
DABCK
DAMCLK
NET_AUDIO
NETSPDIF
XFANERR
FANCTLL5
FANCTLH5
LSSN
RYHP
ZZVLSO
VLSO
VLSCK
XRDSRST5
RDSSCK5
RDSSI5
TUSI5
TUSCK
TUSO
TUCE
XMRX
XMTX
XMDT4
XMLSDT
XMXMMUTE
XXMRST
XMPOW
XMRATE
XXMERR/RDSSCK
XMIRQ/RDSSI
XMLINK
GNDHD
232POW
XDCERR
AMPTEMP
232CDET
SRIN
IRIN
EVREQO
XTEMPERR5
XOLERR
XCEC IO
HOTPLUG
XSMUTE
AC/WP
LOWPOW
EVSCK
EVSO
EVSIS
XEMRST5
V+5R6_U
V+5R6_ST
V+5_EMST
V+5_GA
V+5_DDD
V+3R3_HHH
V+3R3_EM_D
GNDD
GNDU
GNDA
GNDM
GNDV
GNDGND
HOTDET52
HOTDET53
PUSEL2
PUSEL1
XBAOUT
MCKX2
JRDCT
DAOFF
VBUSE2OUT
VBUSE2IN
RYHP
EXSTDIGITAL
EXOEDIGITAL
OSDCS
XOSDRST
XVSRST
XHDTX2RST
XHDTX1RST
HDRXSCDT
XHDRXRST
XMRATE
XZ2DMUTE
ZSP
CN7004
CN6756
CN8202
CN7002
B4/4 CN2601
E1/7
E2/7
E7/7
E1/7,5/7
E6/7
E5/7
E2/7
E3/7
(D) : Audio Signal Route (Digital)

10.11 DIGITAL MAIN ASSY (4/7)

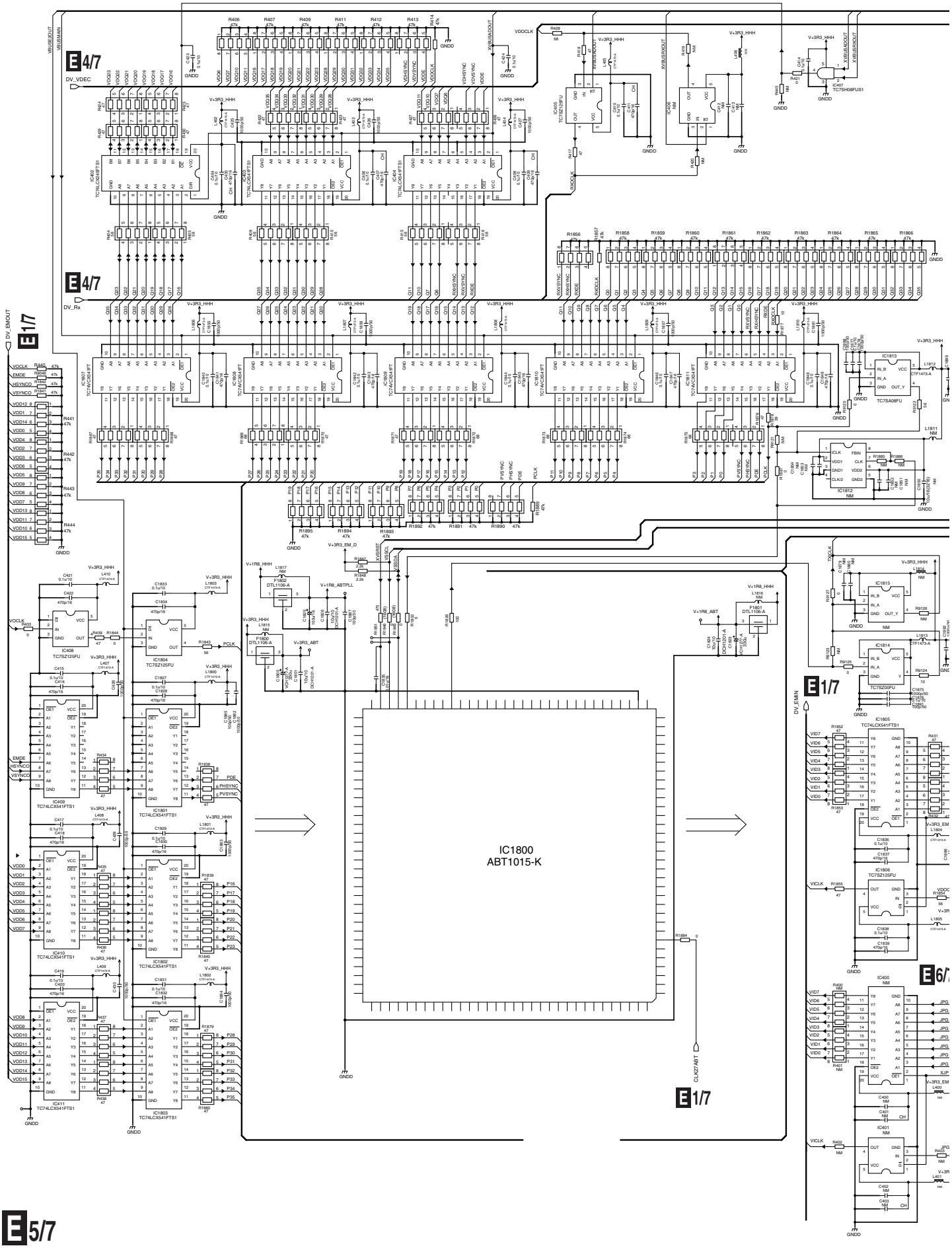


E 4/7 DIGITAL MAIN ASSY (AWX9463)
• HDMI BLOCK (1/2)

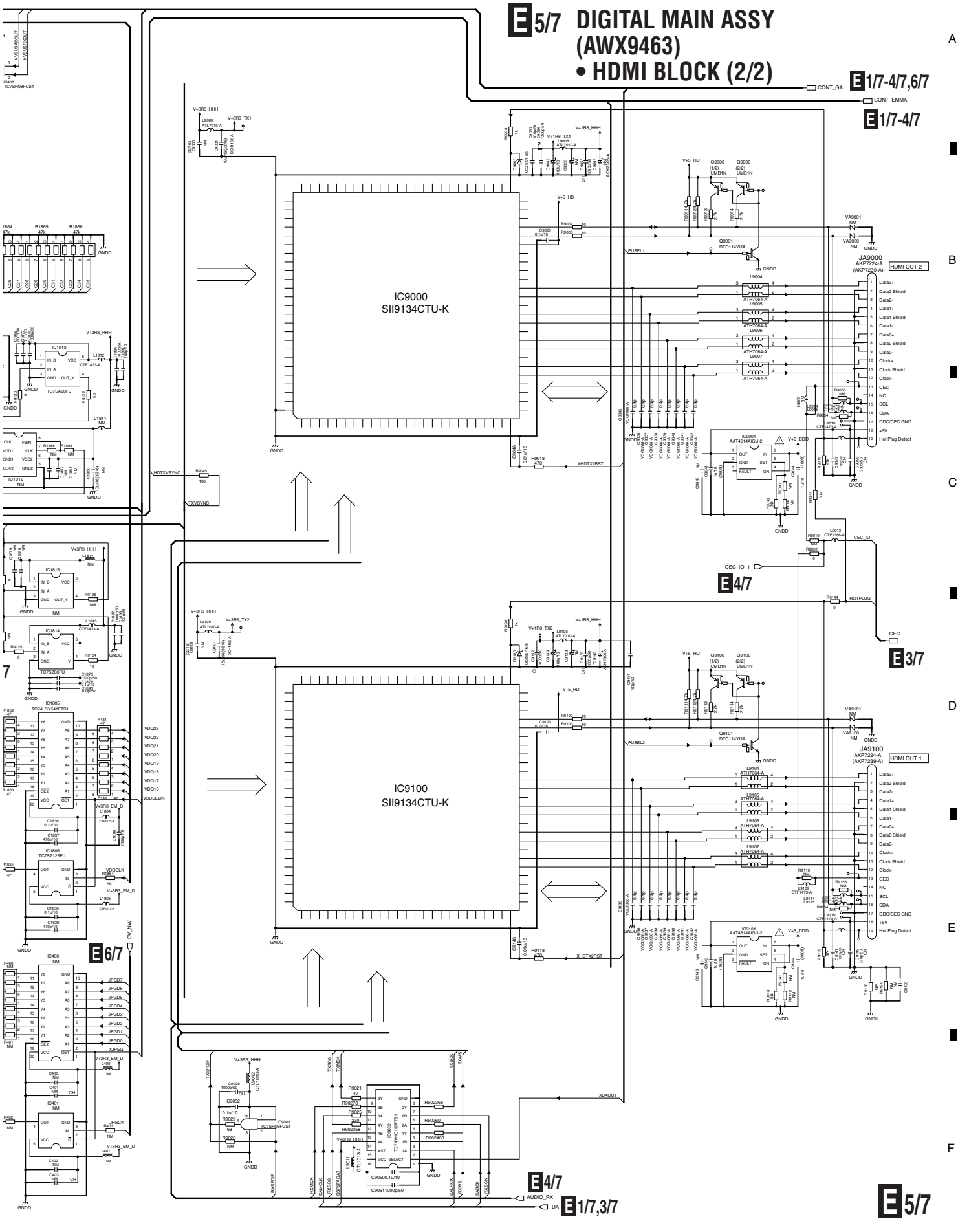


E 5/7
E 1/7-3/7,5/7,6/7
E 1/7-3/7,5/7
E 5/7
E 2/7
E 2/7
E 2/7
E 2/7
E 5/7
E 4/7

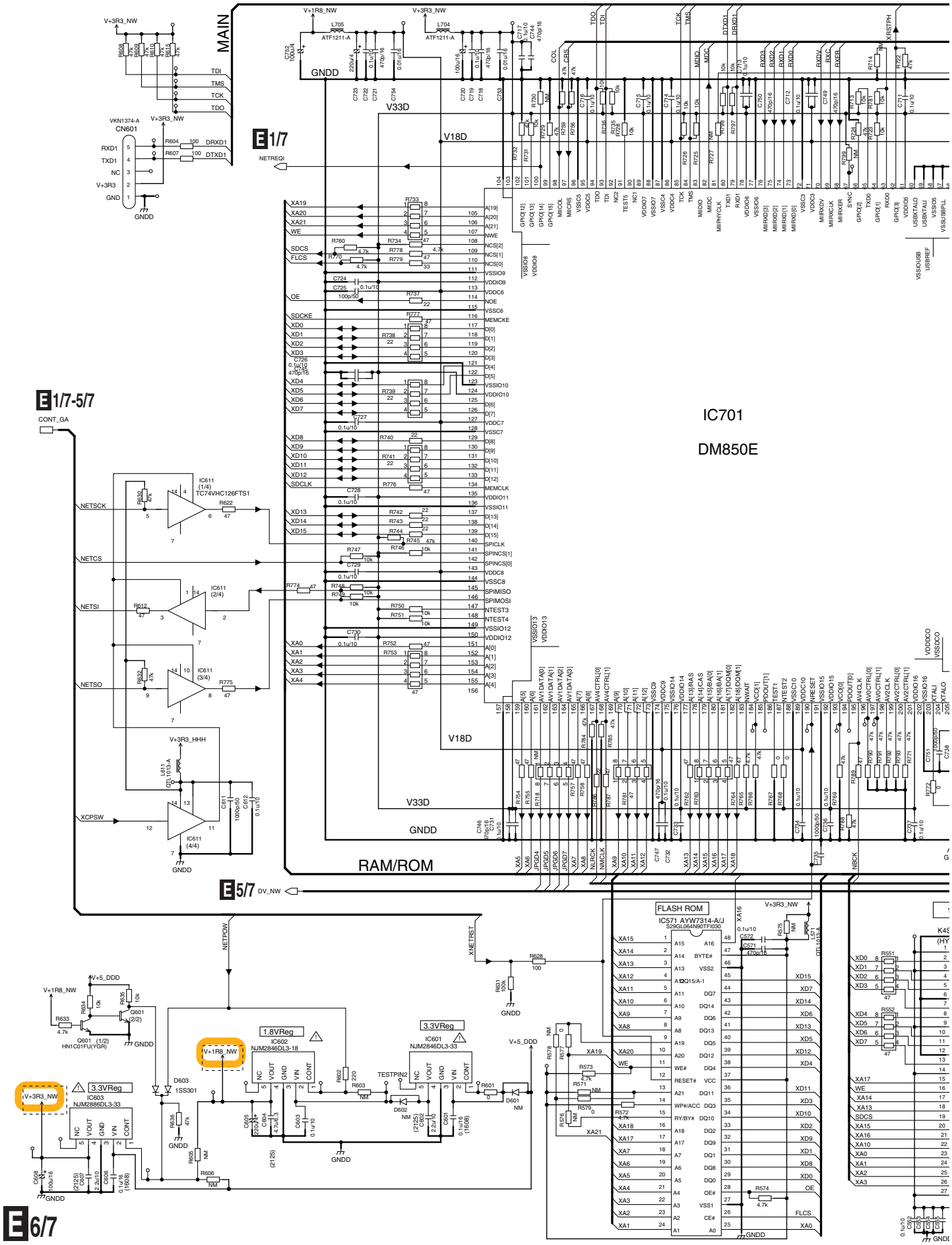
10.12 DIGITAL MAIN ASSY (5/7)



E5/7 DIGITAL MAIN ASSY (AWX9463) • HDMI BLOCK (2/2)

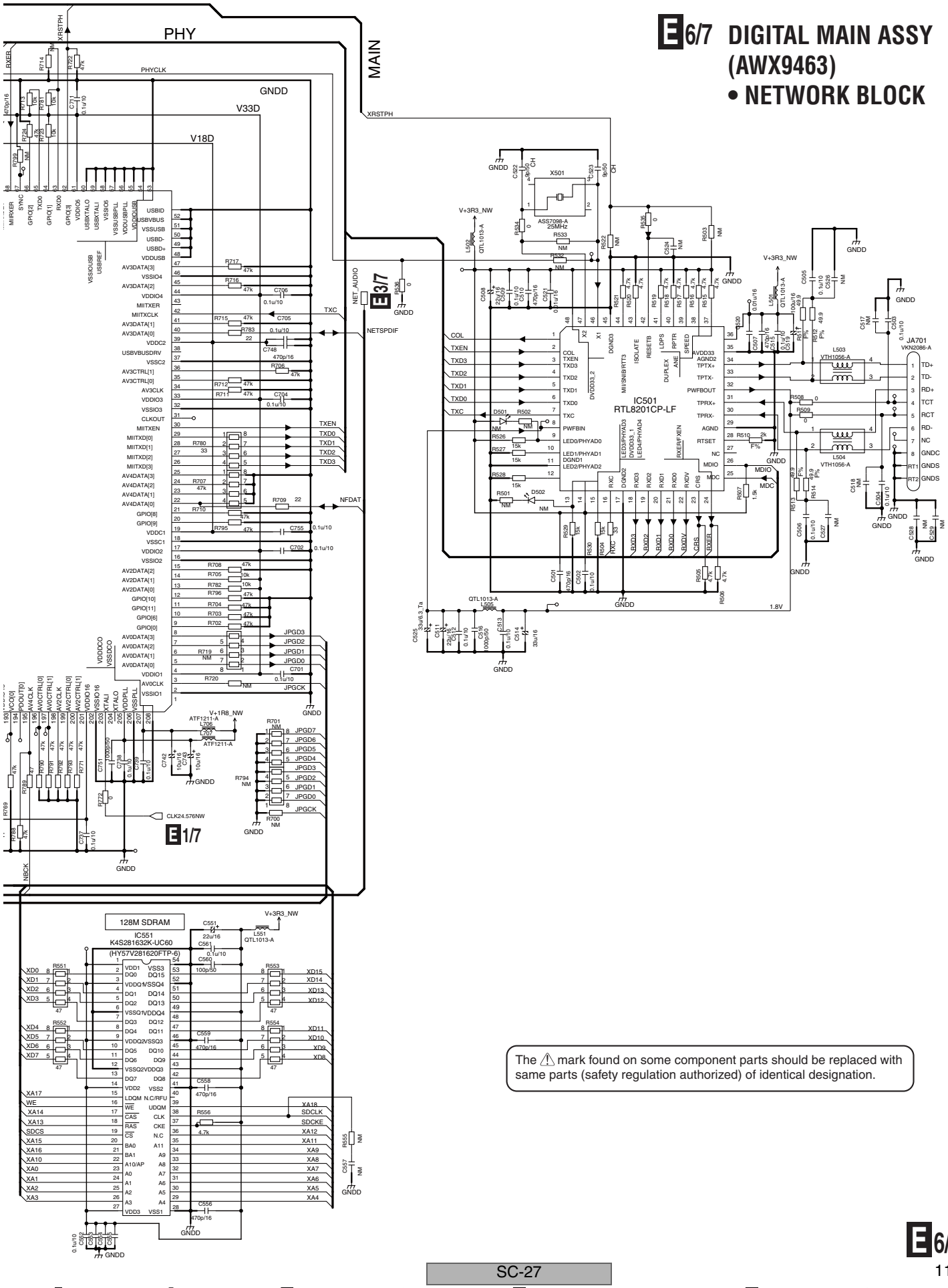


10.13 DIGITAL MAIN ASSY (6/7)



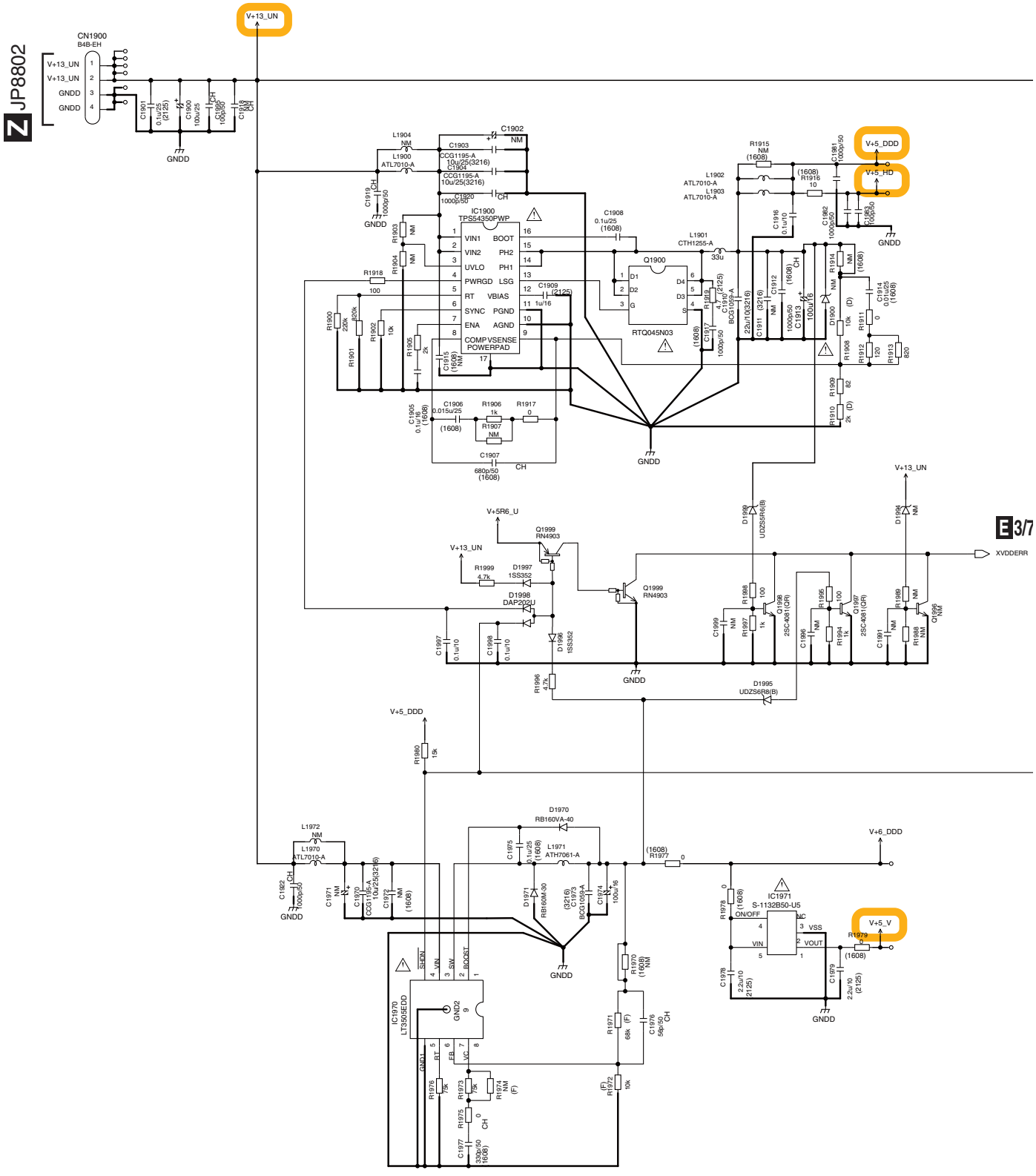
E6/7 DIGITAL MAIN ASSY (AWX9463)

• NETWORK BLOCK



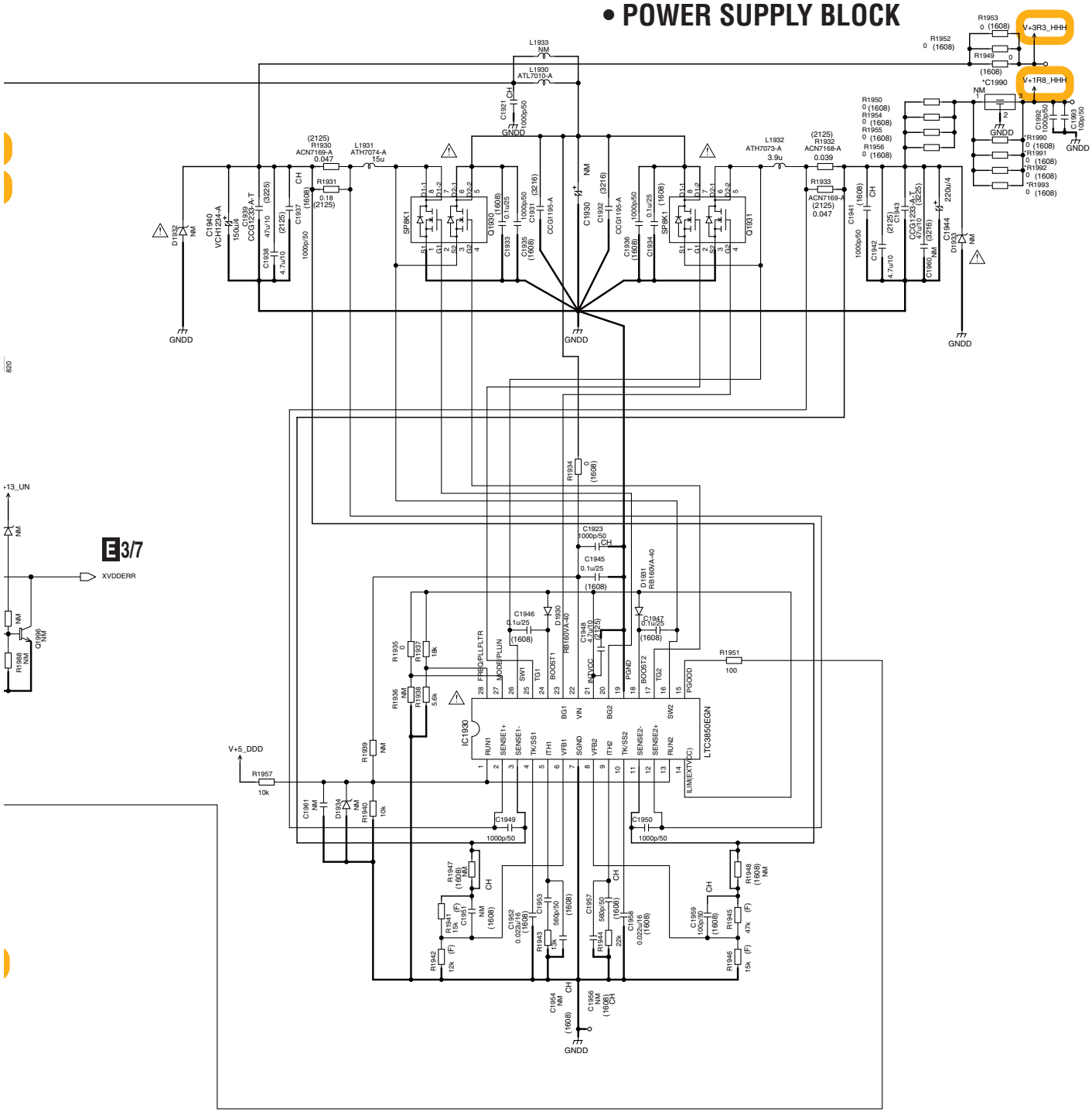
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

10.14 DIGITAL MAIN ASSY (7/7)



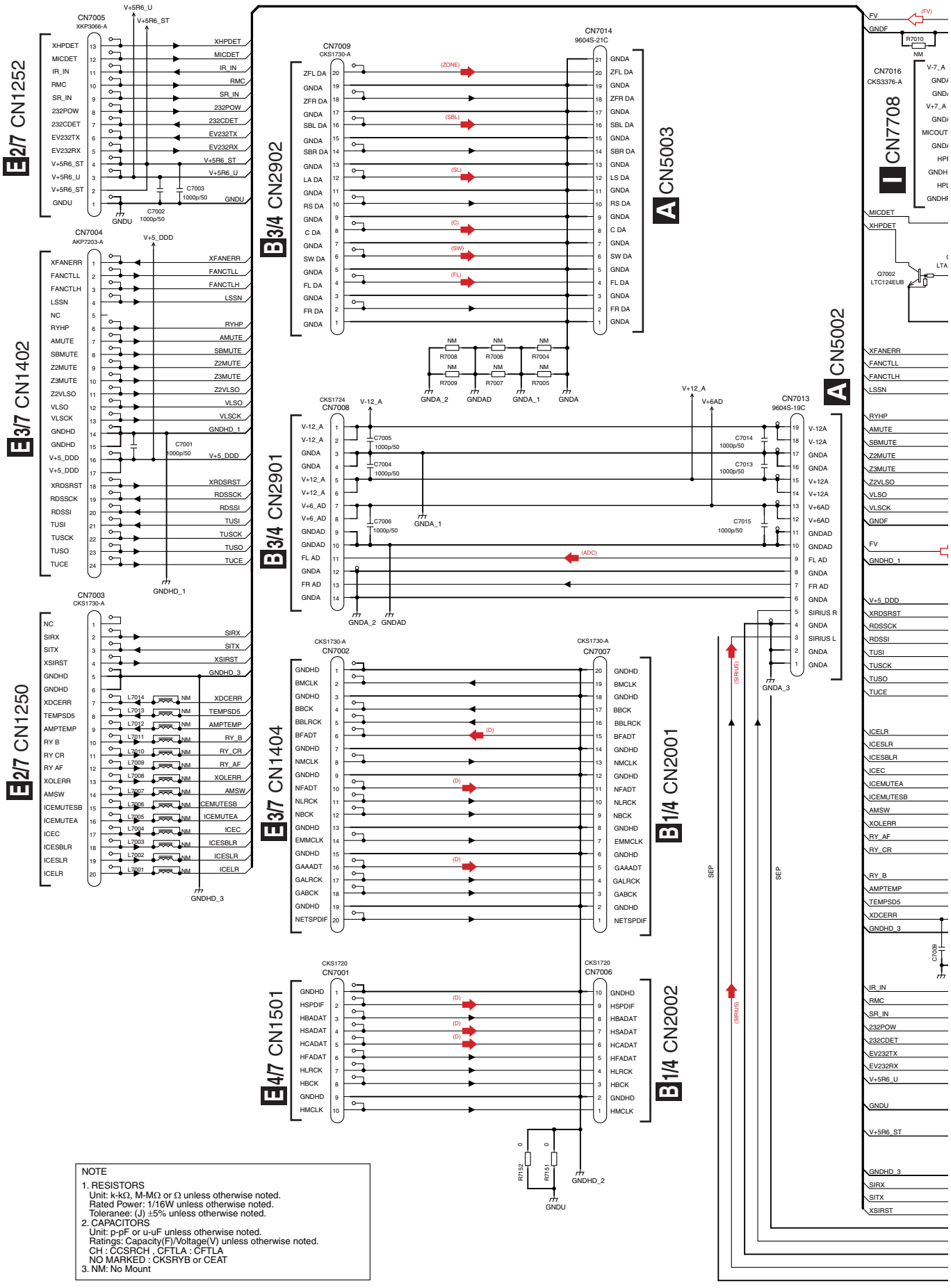
E7/7 DIGITAL MAIN ASSY (AWX9463)

• POWER SUPPLY BLOCK

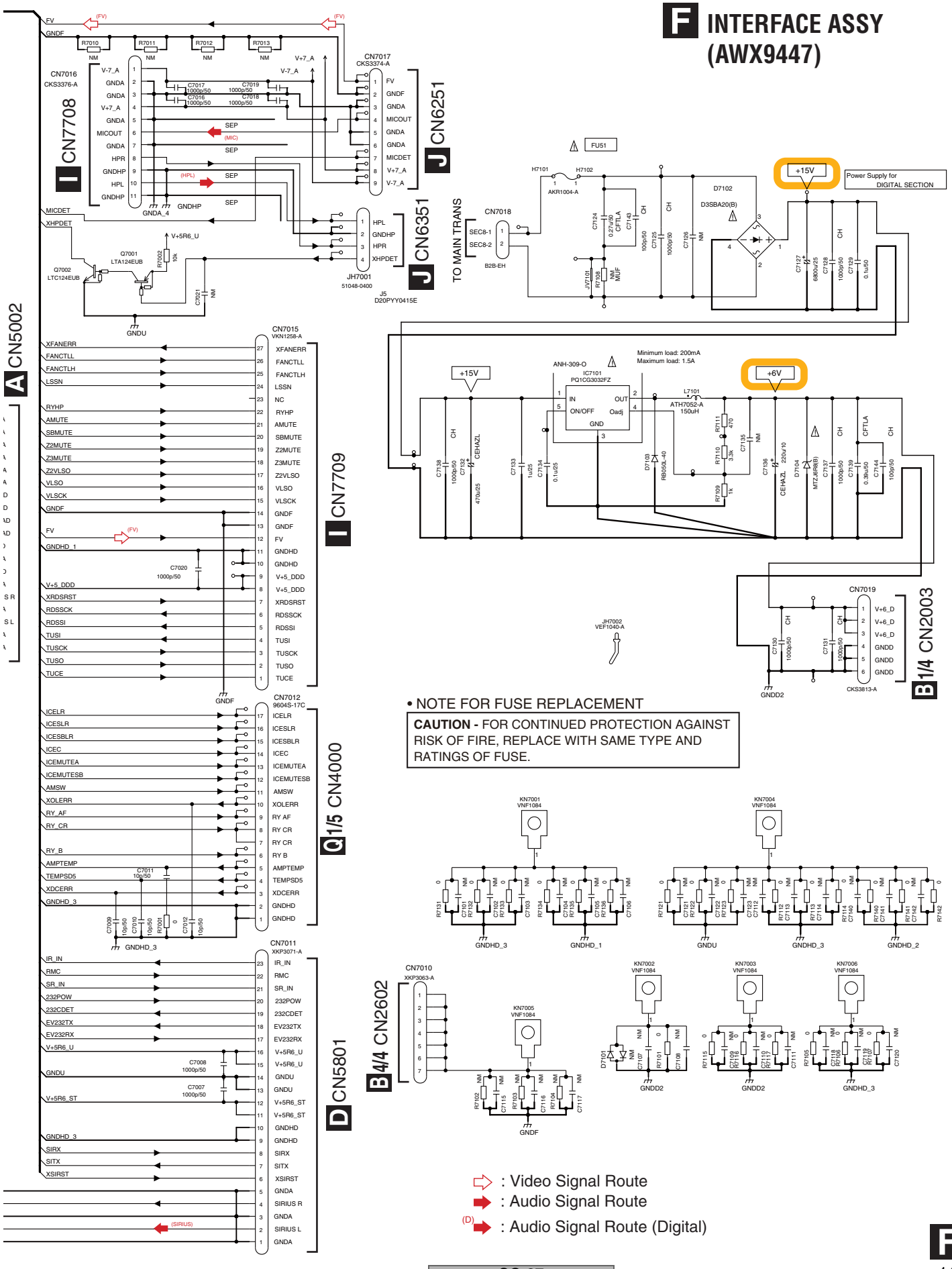


The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

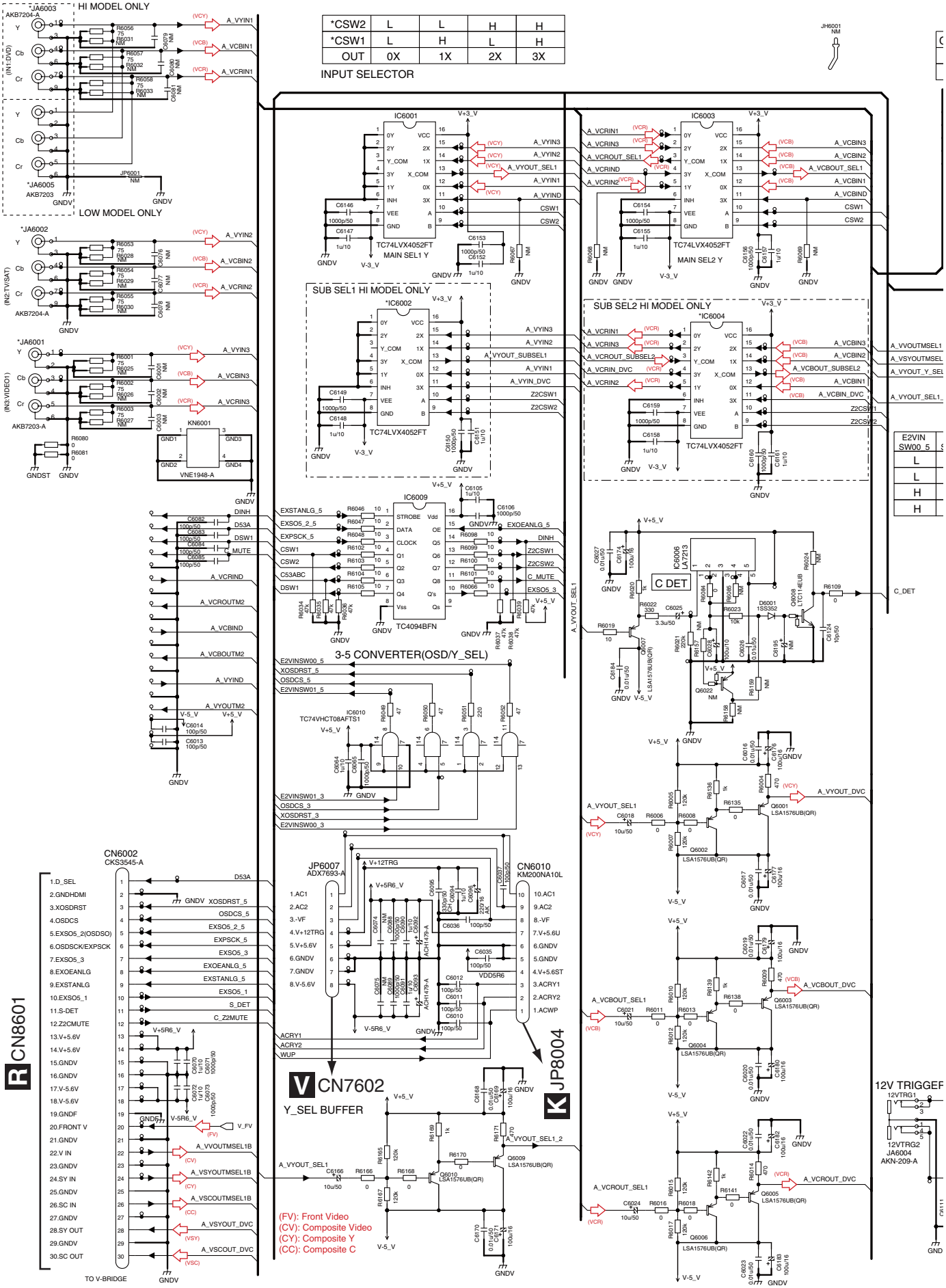
10.15 INTERFACE ASSY



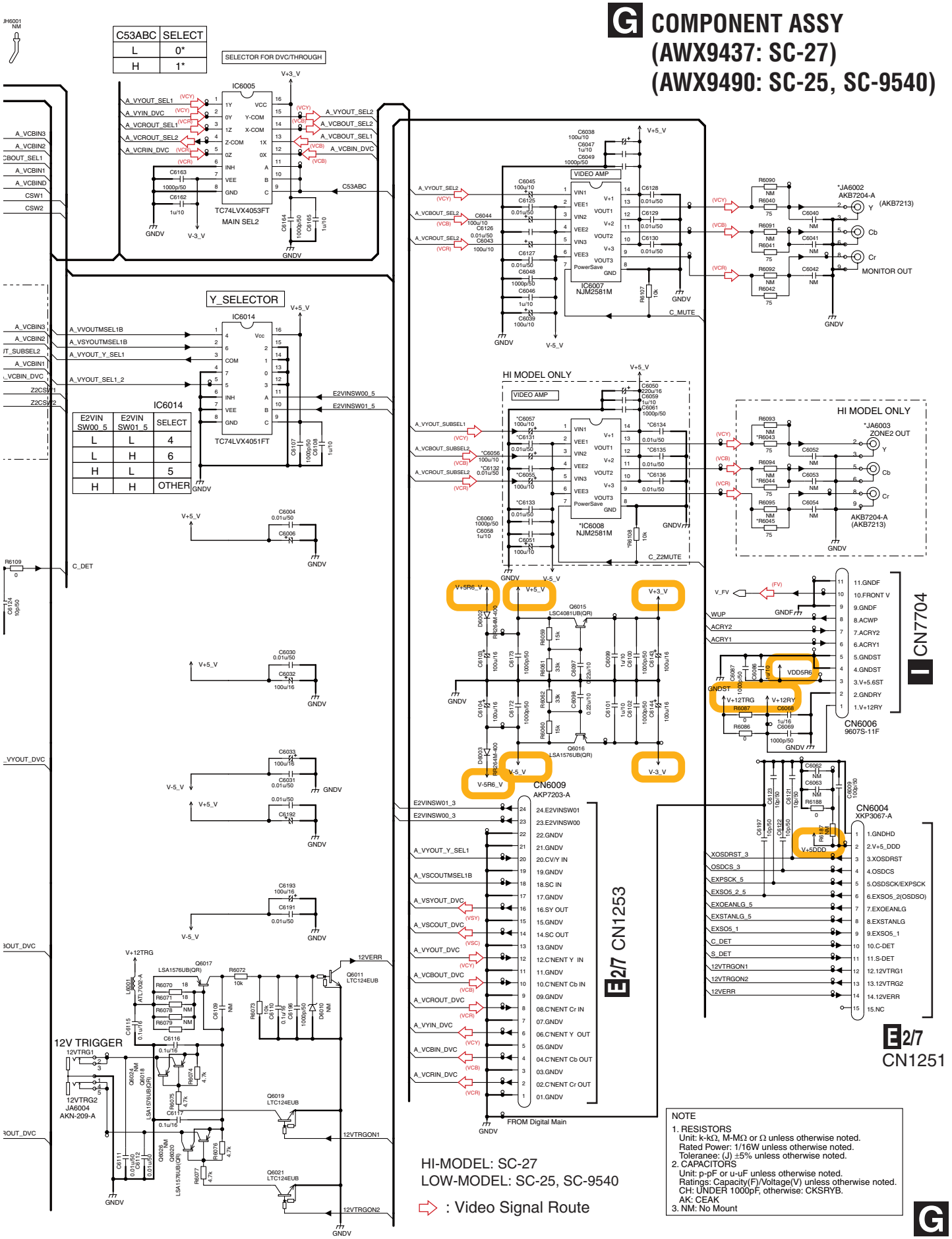
F INTERFACE ASSY (AWX9447)



10.16 COMPONENT ASSY

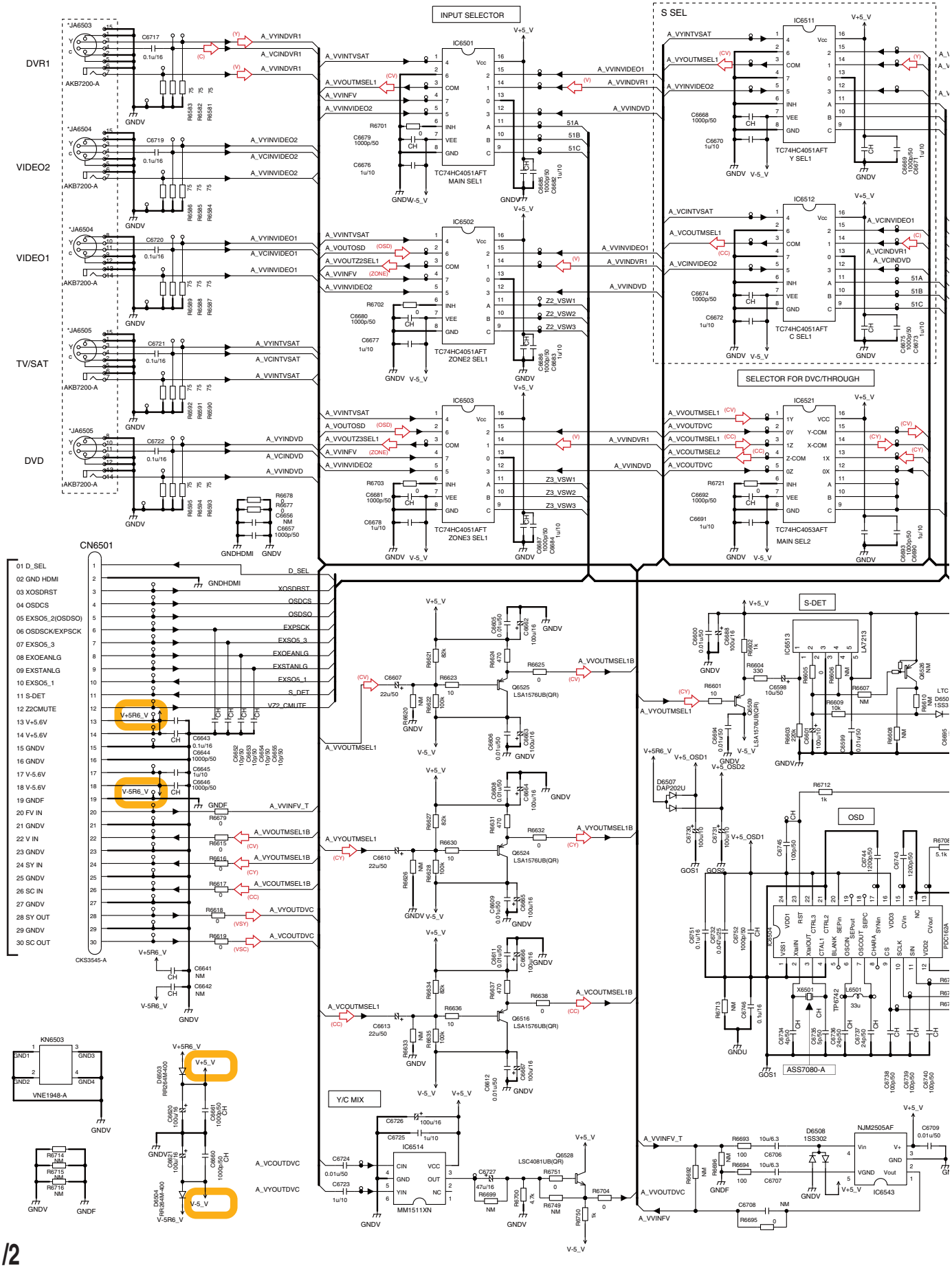


G COMPONENT ASSY (AWX9437: SC-27) (AWX9490: SC-25, SC-9540)

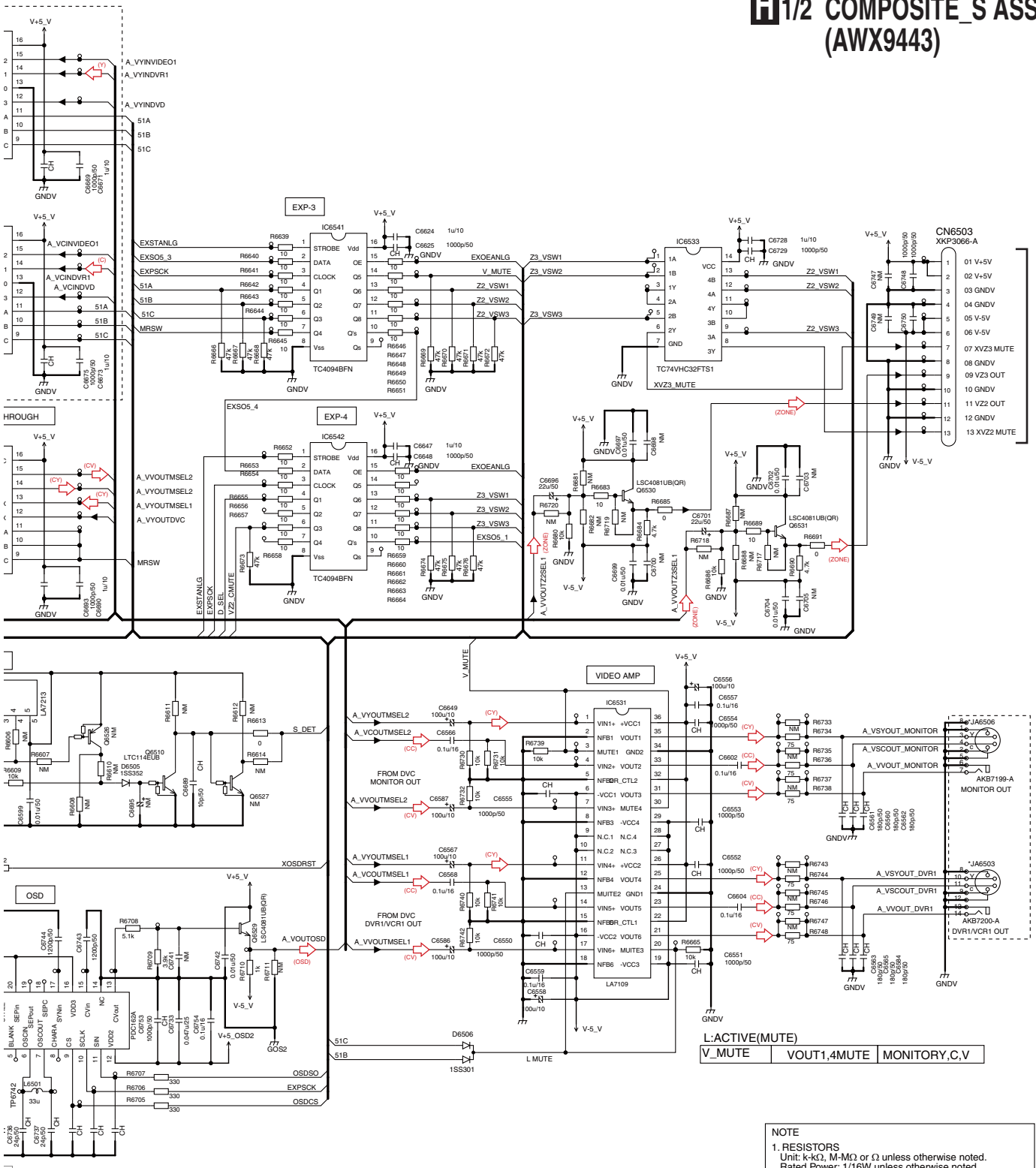


SC-27

10.17 COMPOSITE_S ASSY (1/2)



H1/2 COMPOSITE_S ASSY (AWX9443)



INH	51C *VSW3	51B *VSW2	51A *VSW1	INPUT
L	L	L	L	Not Used
L	L	L	H	DVR/VCR
L	L	H	L	VIDEO1
L	L	H	H	DVD
L	H	L	L	TV/SAT
L	H	L	H	VIDEO2
L	H	H	L	(OSD)
L	H	H	H	iPod

TC74HC4051

INH	*VSW3	*VSW2	*VSW1	INPUT
L	L	L	L	DVC ON
L	H	H	H	DVC OFF
H	X	X	X	NONE

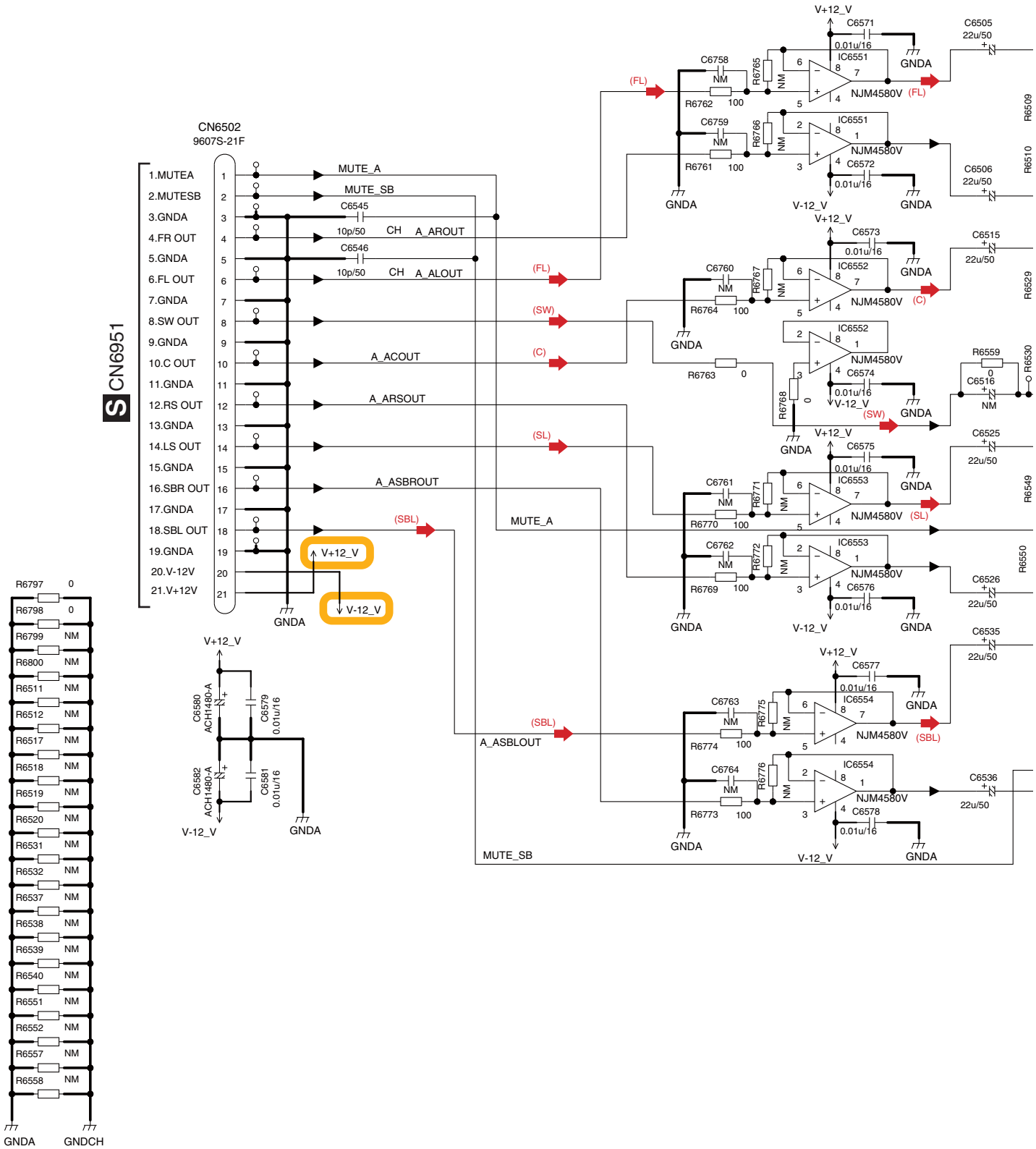
TC74HC4051

NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W unless otherwise noted.
   Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   CH: CCSRCH, UNDER 1000pF, otherwise: CKSRYB.
3. NM: No Mount

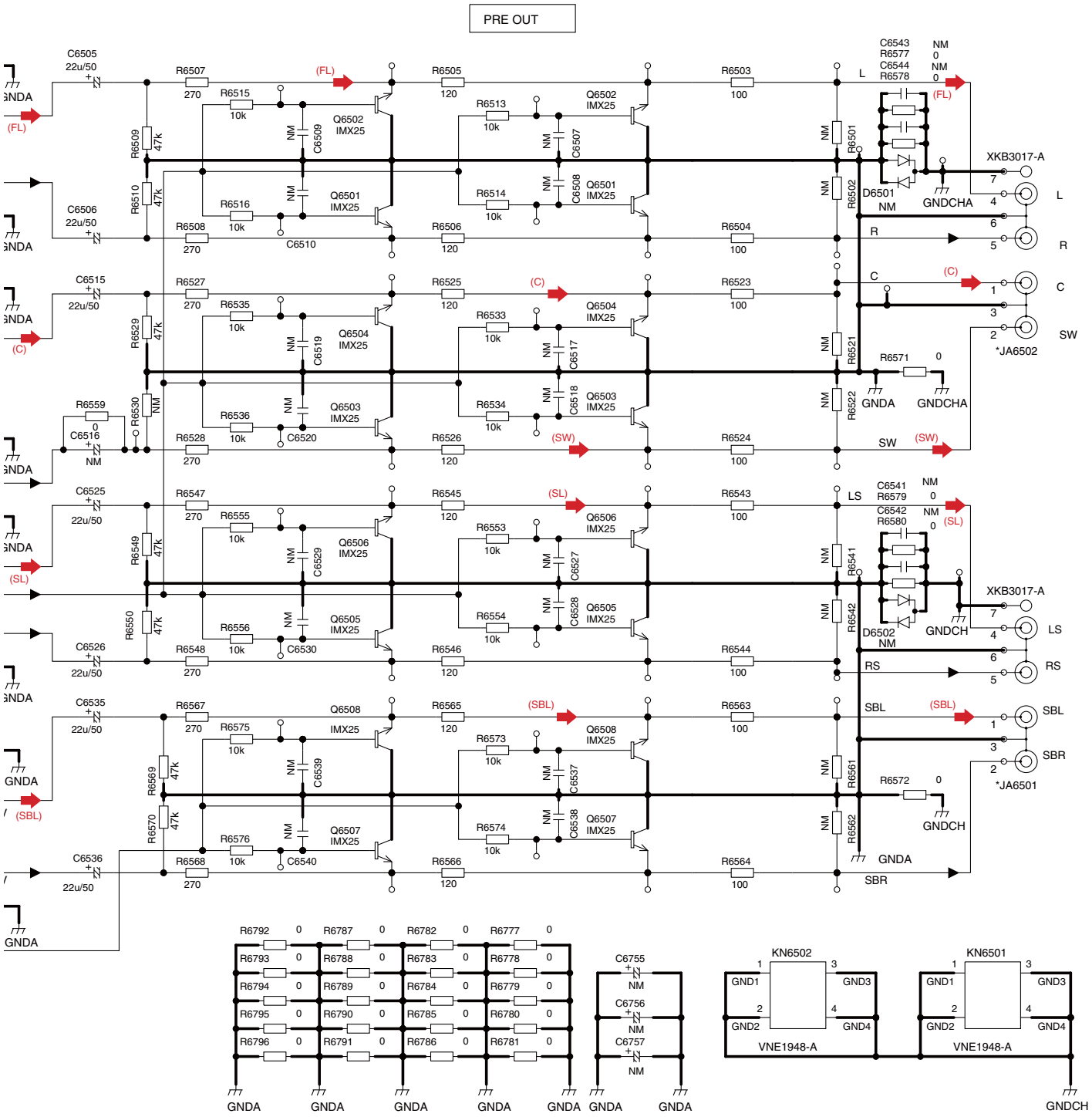
⇨ : Video Signal Route

(FV): Front Video
(CV): Composite Video
(CY): Composite Y
(CC): Composite C

10.18 COMPOSITE_S ASSY (2/2)

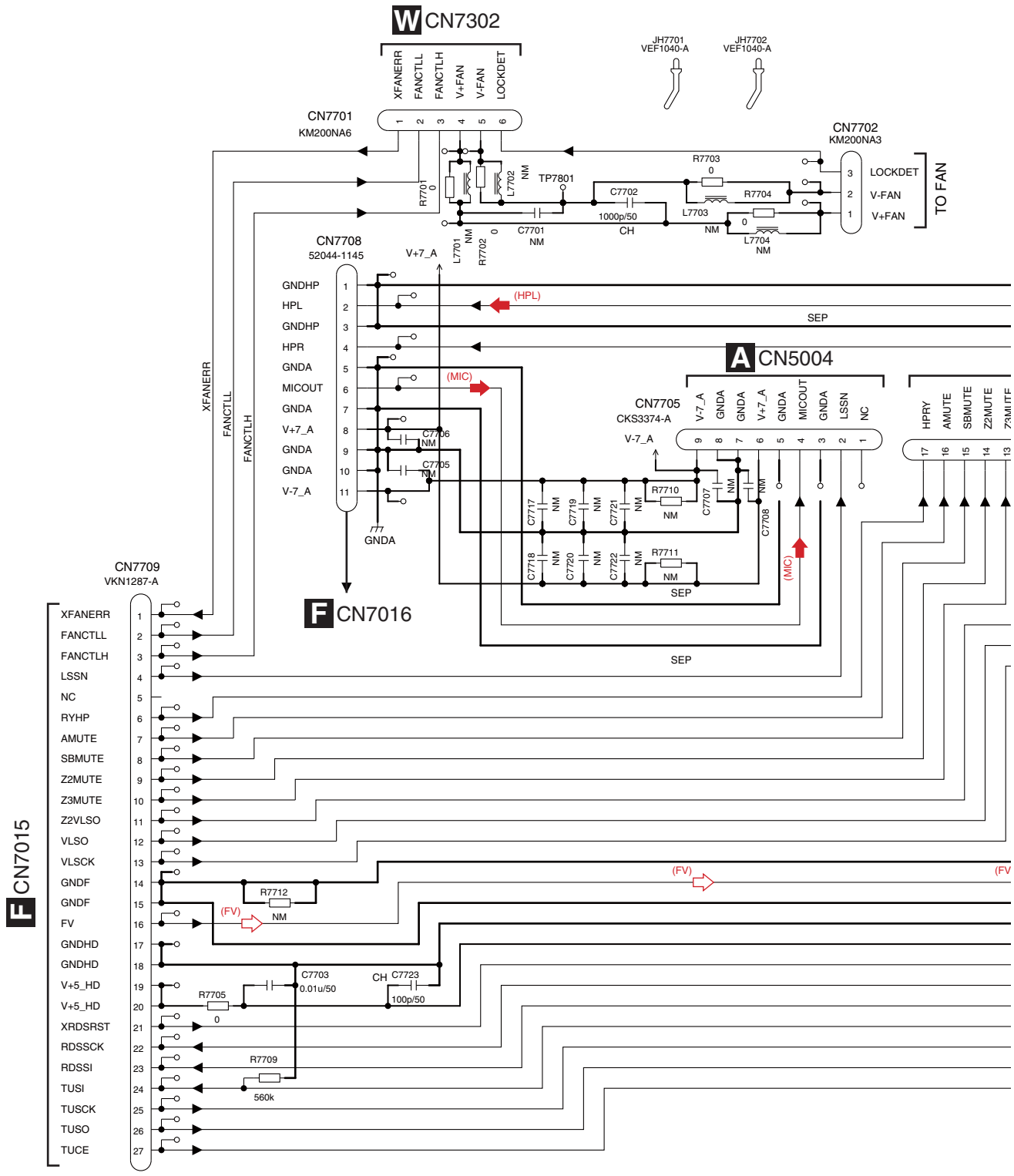


H2/2 COMPOSITE_S ASSY (AWX9443)

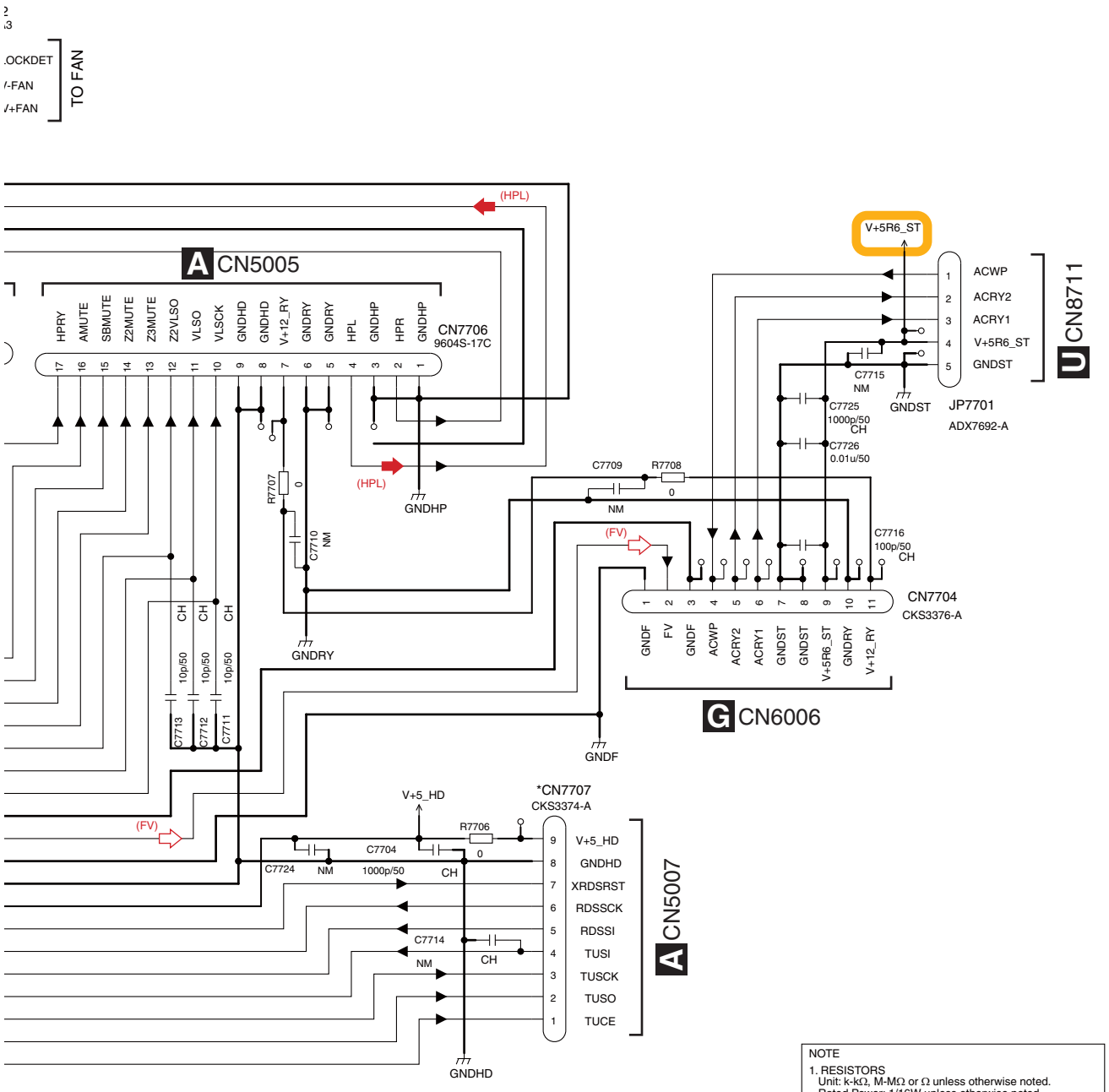


: Audio Signal Route

10.19 FRONT BRIDGE ASSY



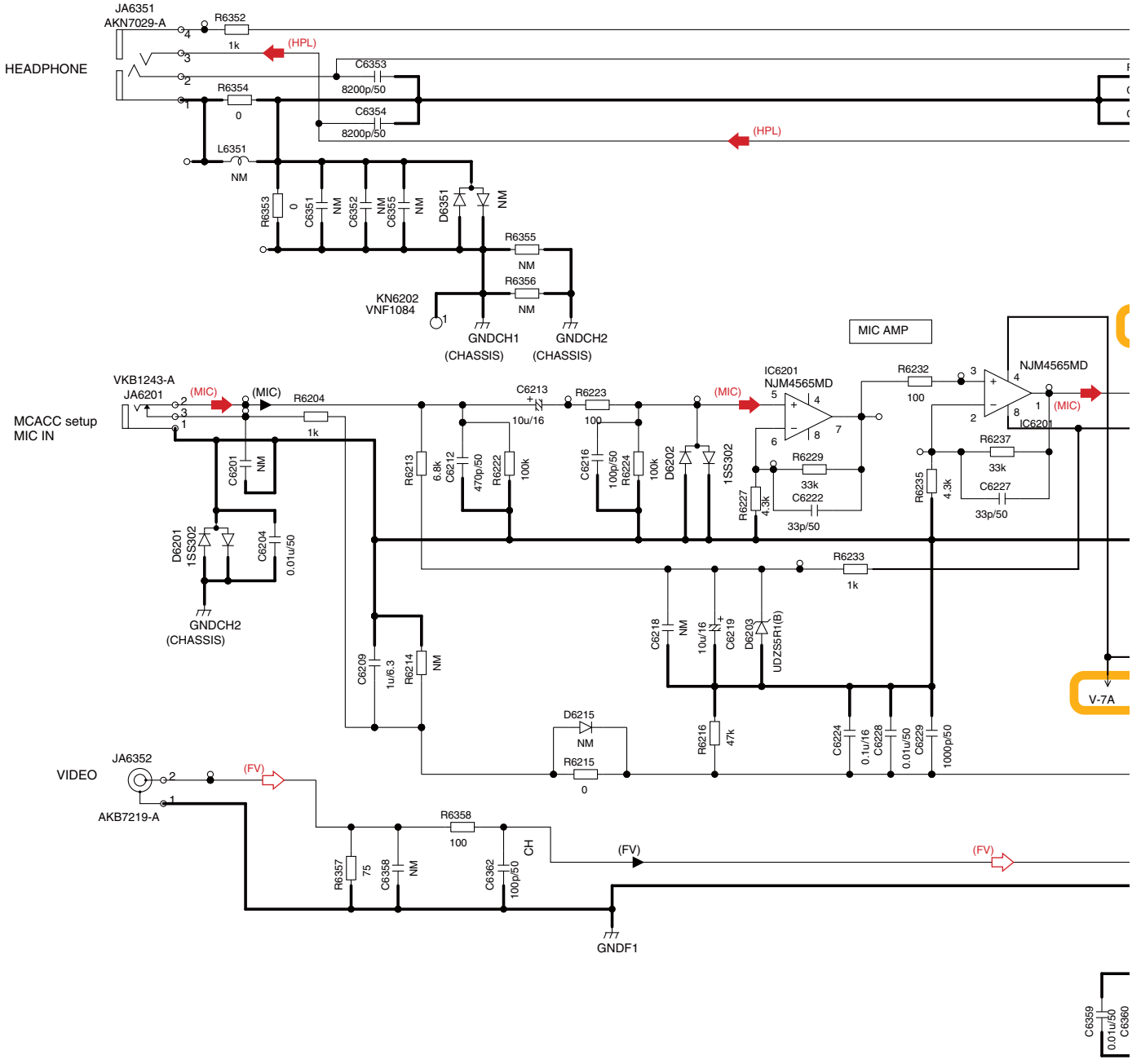
I FRONT BRIDGE ASSY (AWX9453)



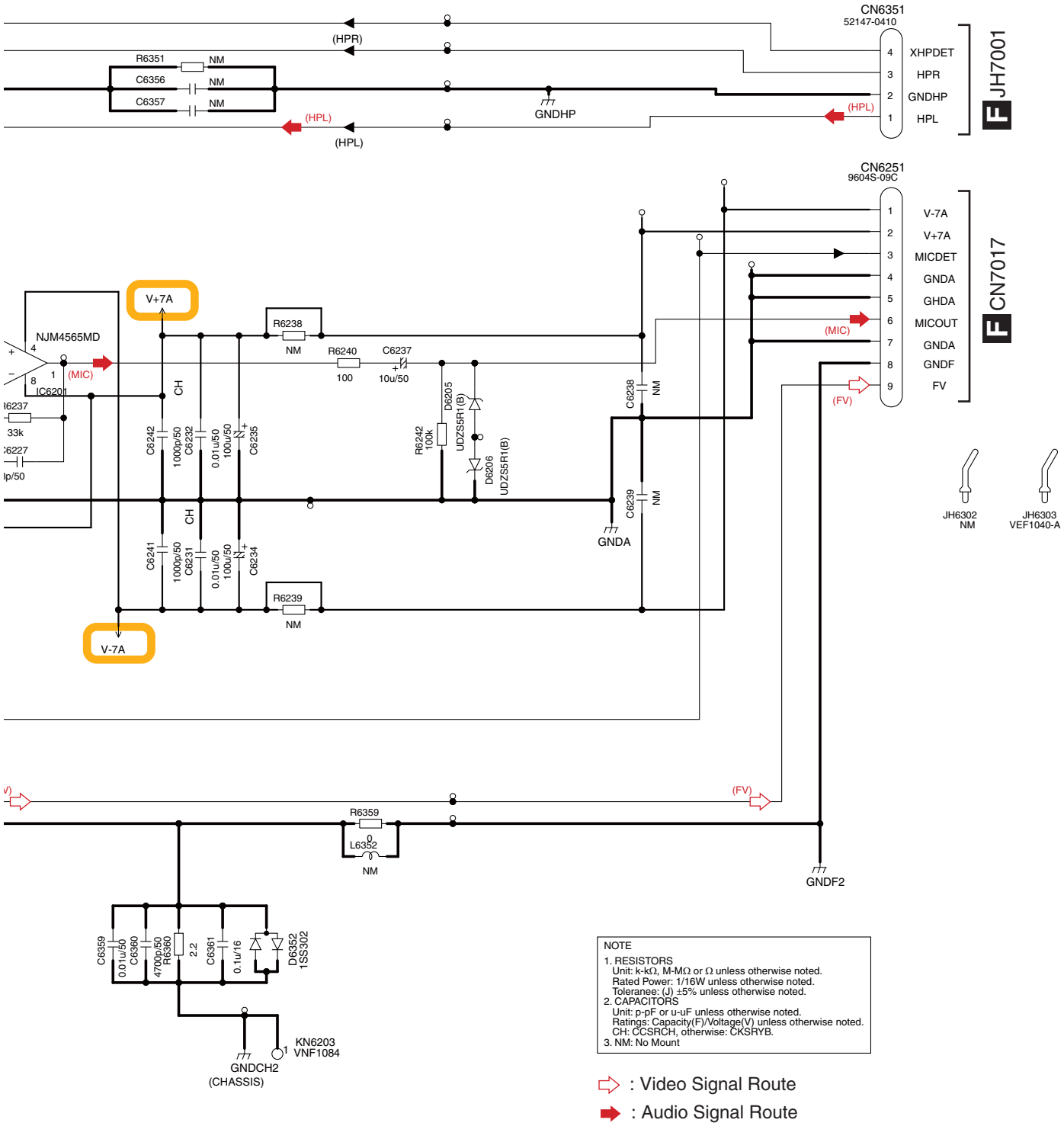
NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W unless otherwise noted.
   Toleranee: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   CH: CCSRCH, otherwise: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

: Video Signal Route
: Audio Signal Route

10.20 MIC HP ASSY



J MIC HP ASSY (AWX9438)

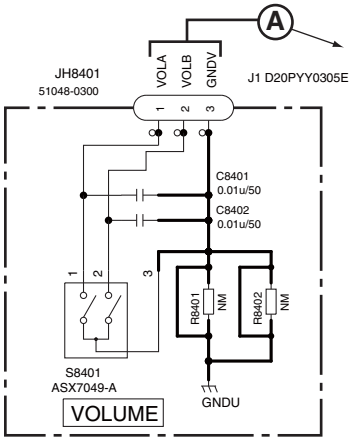


NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W unless otherwise noted.
   Toleranee: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   CH: CCSRCH, otherwise: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

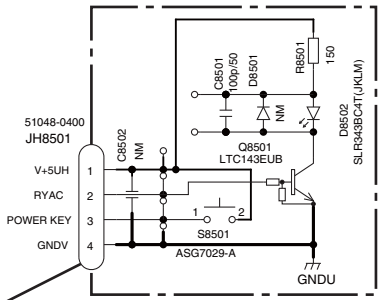
: Video Signal Route

: Audio Signal Route

10.21 DISPLAY, VOL AND POWER SW ASSYS

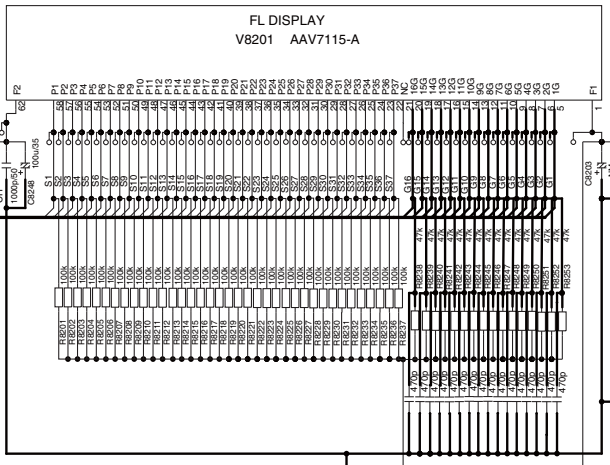


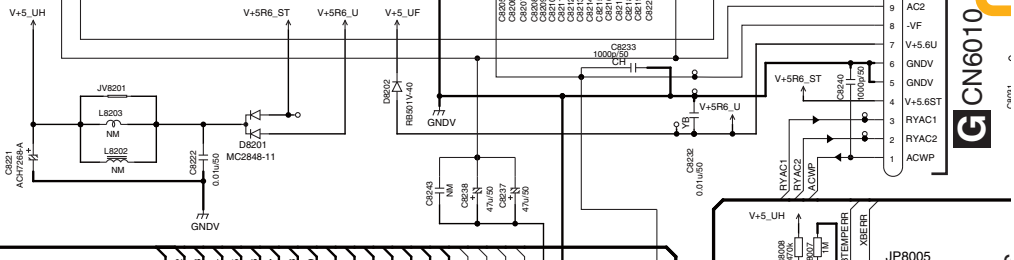
L VOL ASSY (AWX9455)

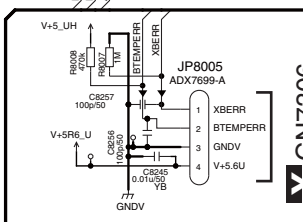


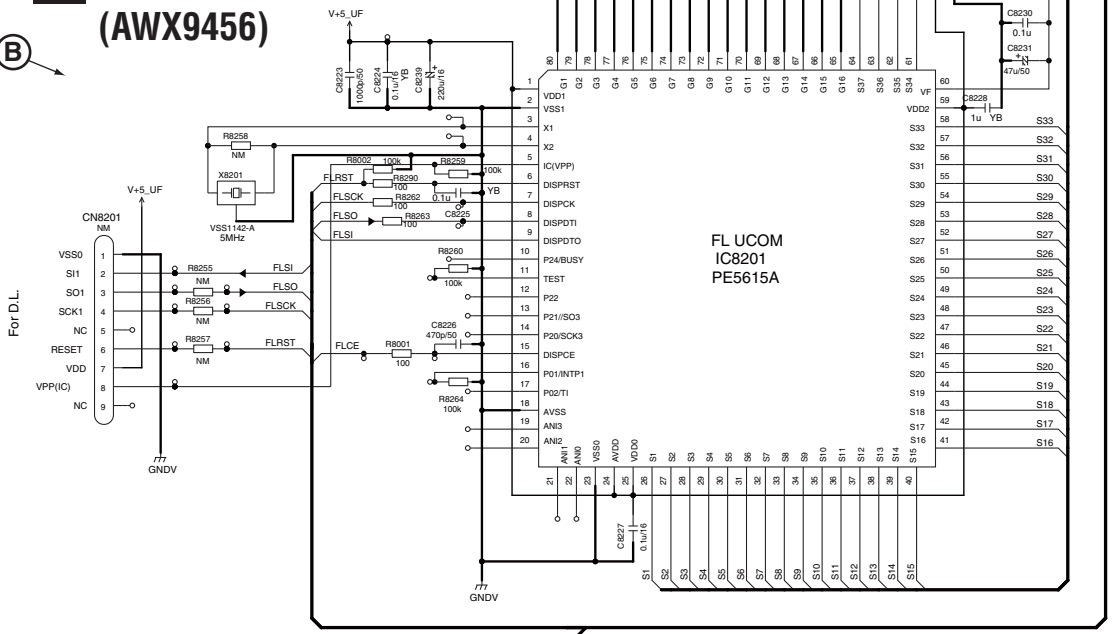
M POWER SW ASSY (AWX9456)

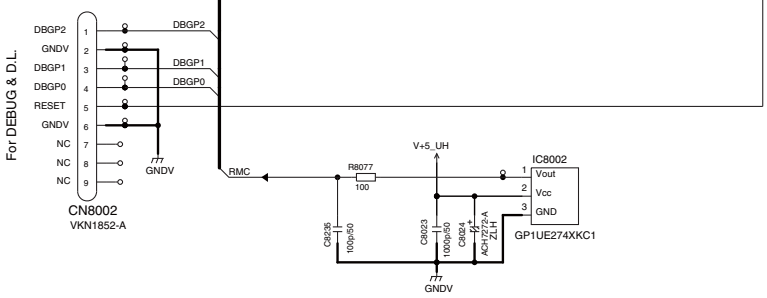
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

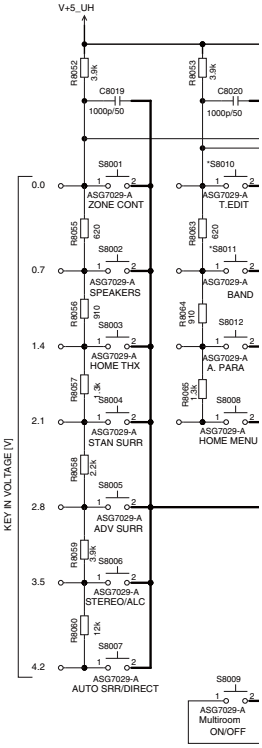












NOTE
1. RESIST
Unit: k-k
Rated Po
Toleranc
2. CAPACI
Unit: p-pF
Ratings:
CH: CCS
3. NM: No

except AWX952
AWX9528 (Dis
AWX9454 (Hi C
AWX9481 (Lo C
AWX9528 (Distr

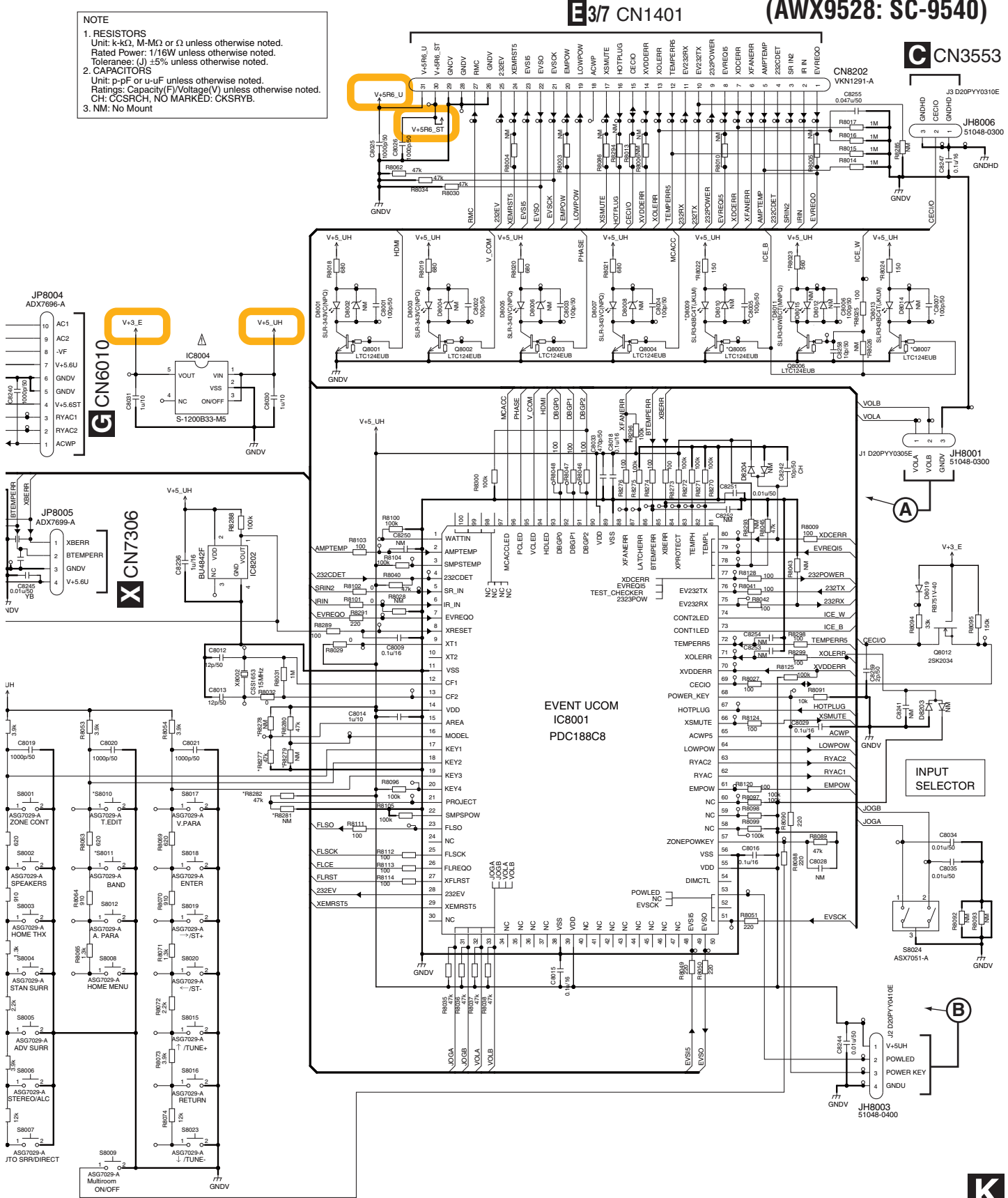
ed with
n.

	R8022	R8023	R8024	R8025	R8026	C8005	C8007	Q8005	Q8007	D8009	D8011	D8013
except AWX9528	150	560	150	100	NM	100p	100p	LTC124EUB	LTC124EUB	SLR343BC4T(JKLM)	SLR343WBCT(MNPQ)	SLR343BC4T(JKLM)
AWX9528 (Distri)	NM	150	NM	NM	100	NM	NM	NM	NM	NM	SLR343BC4T(JKLM)	NM

	R8277	R8278	R8279	R8280	R8281	R8282	S8010	S8011
AWX9454 (Hi CU)	47k	NM	NM	47k	NM	47k	VSG1024-A	VSG1024-A
AWX9481 (Lo CU)	47k	NM	47k	NM	NM	47k	VSG1024-A	VSG1024-A
AWX9528 (Distri)	47k	NM	47k	NM	68k	22k	VSG1024-A	VSG1024-A

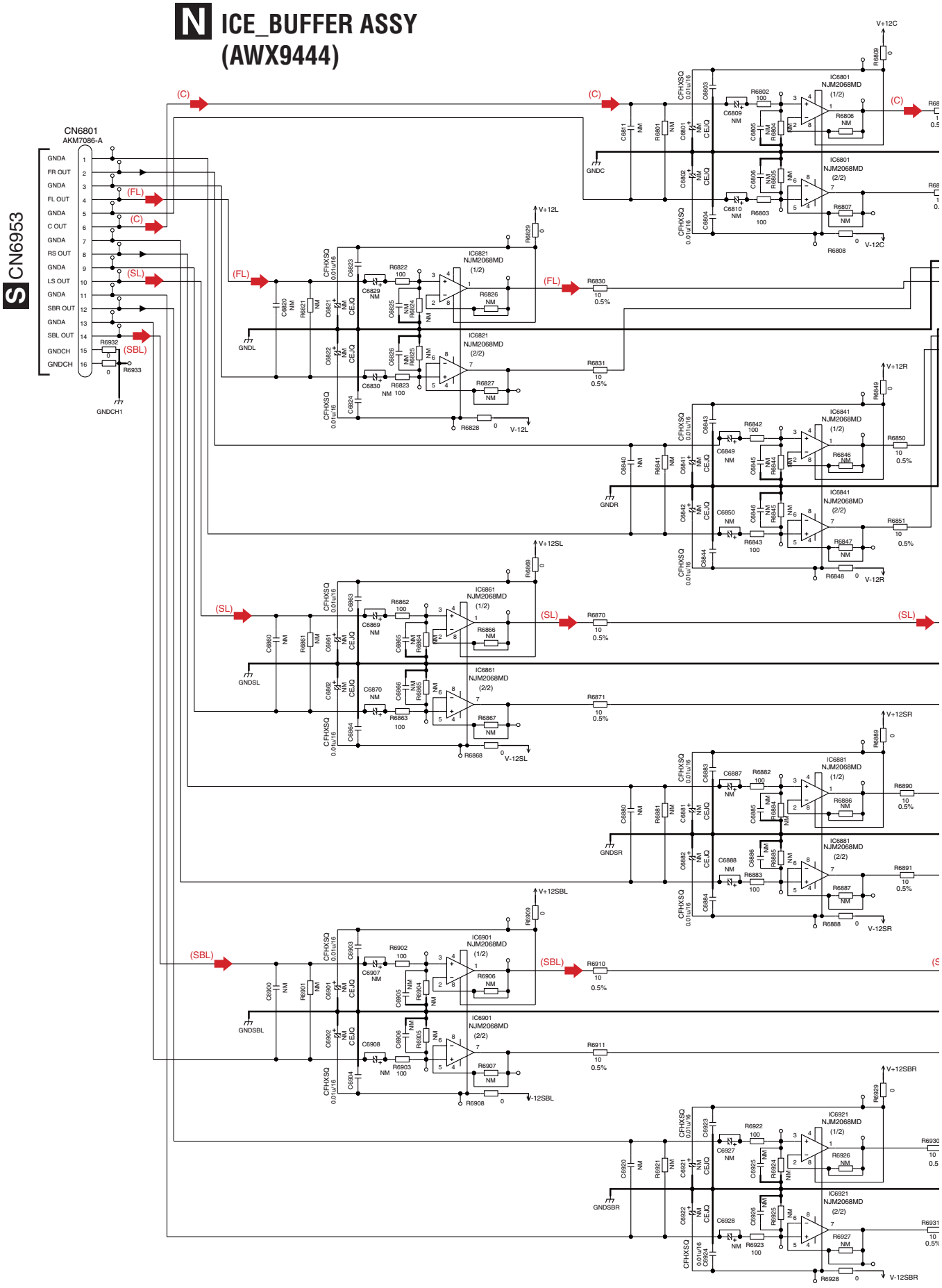
NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W unless otherwise noted.
   Toleranee: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   CH: CCSRCH, NO MARKED: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

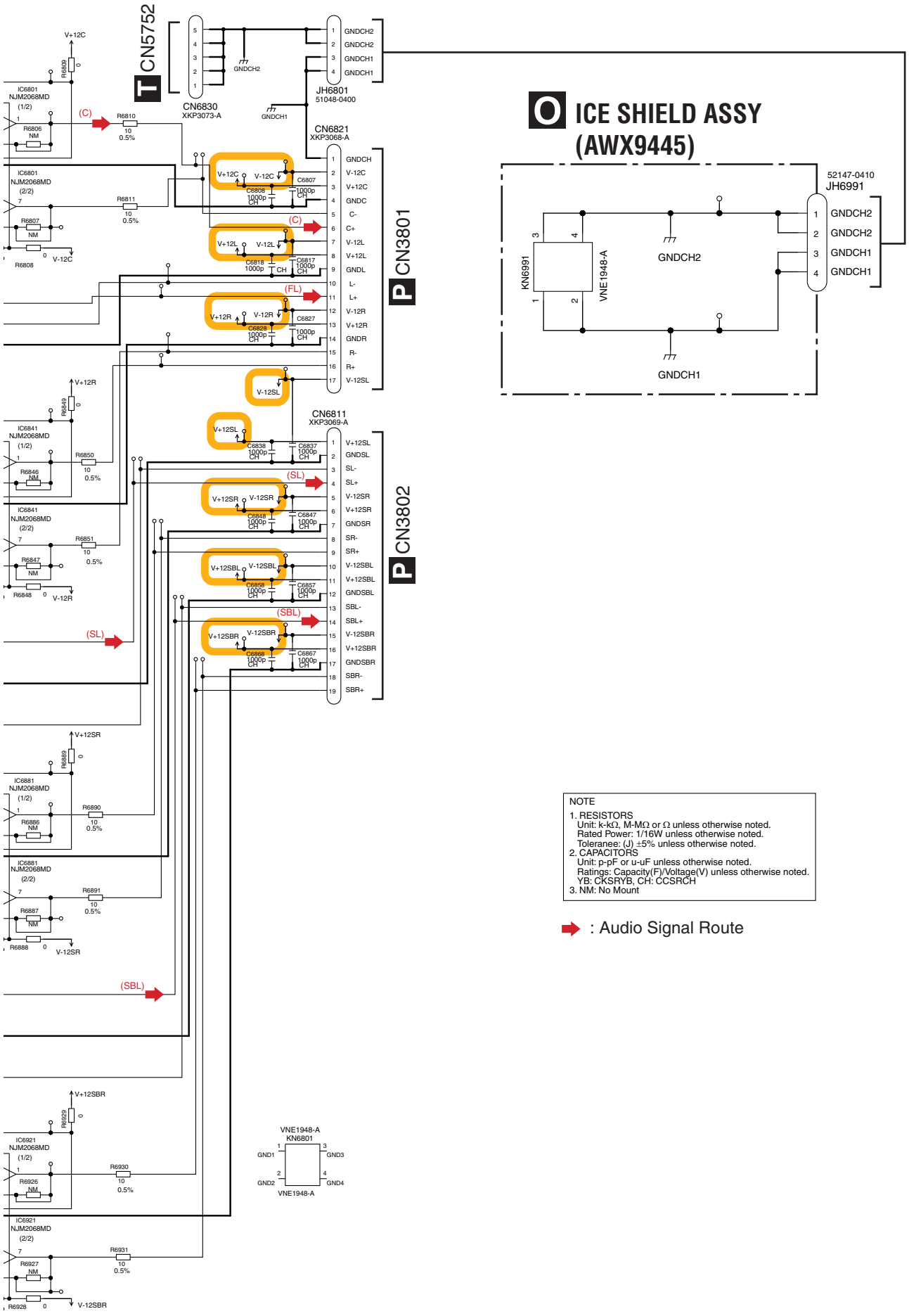
K DISPLAY ASSY (AWX9454: SC-27) (AWX9481: SC-25) (AWX9528: SC-9540)



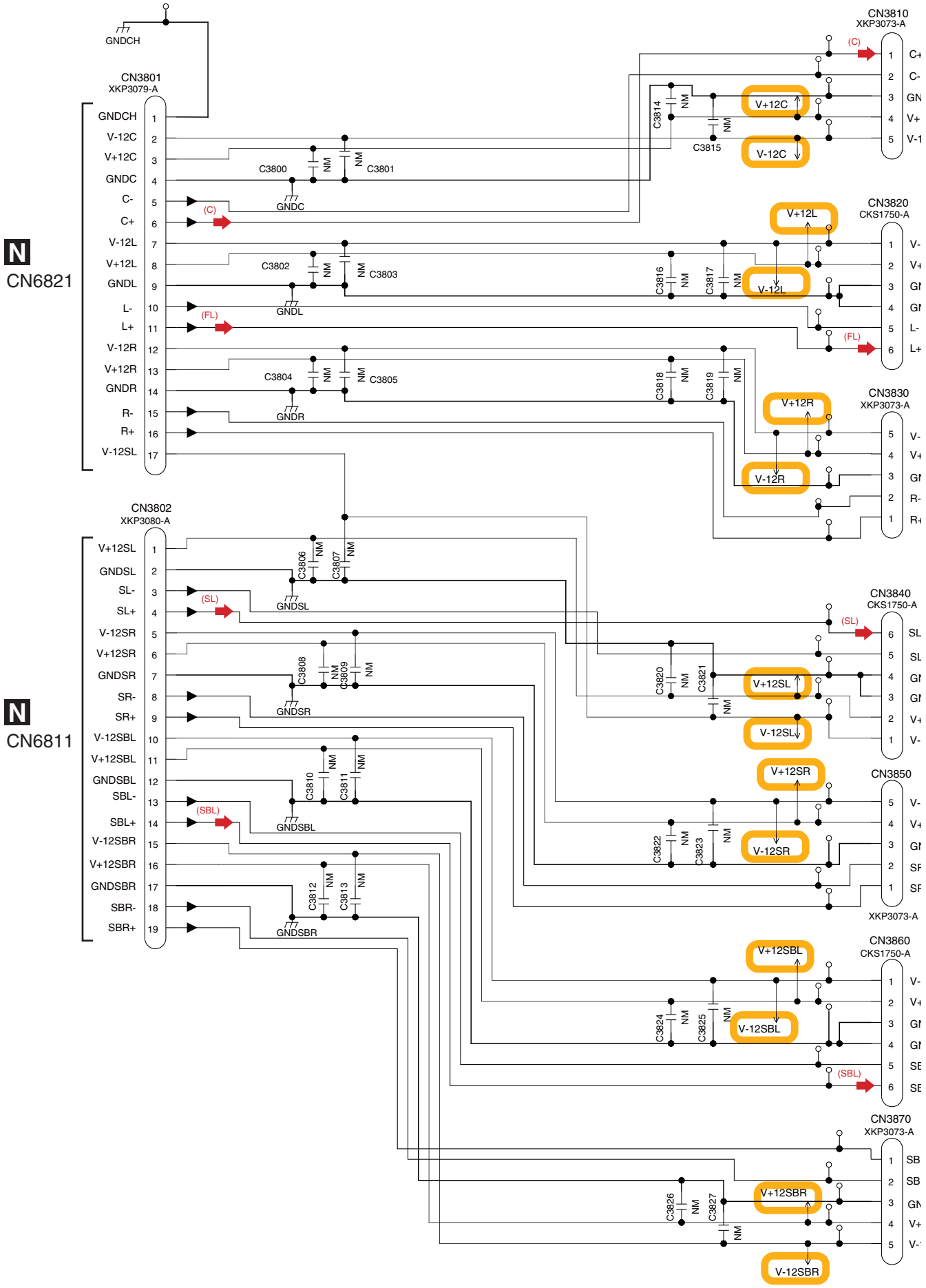
10.22 ICE_BUFFER AND ICE SHIELD ASSYS

N ICE_BUFFER ASSY (AWX9444)

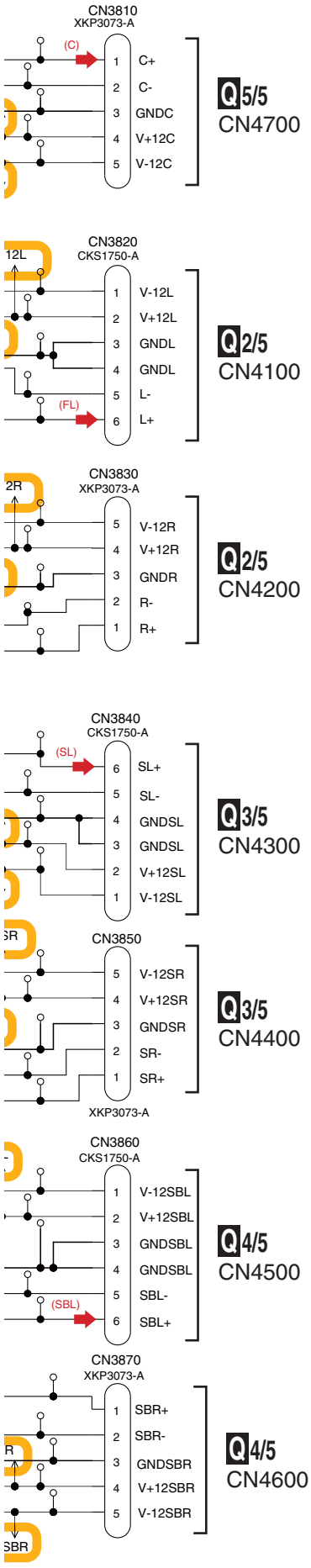



T CN5752
CN6830
XKP3073-A
JH6801
51048-0400
GNDCH2
GNDCH1
CN6821
XKP3068-A
P CN3801
CN6811
XKP3069-A
P CN3802
O ICE SHIELD ASSY
(AWX9445)
52147-0410
JH6991
KN6991
VNE1948-A
IC6801 NJM2068MD (1/2)
IC6801 NJM2068MD (2/2)
IC6841 NJM2068MD (1/2)
IC6841 NJM2068MD (2/2)
IC6881 NJM2068MD (1/2)
IC6881 NJM2068MD (2/2)
IC6921 NJM2068MD (1/2)
IC6921 NJM2068MD (2/2)
V+12C
V-12C
V+12L
V-12L
V+12R
V-12R
V+12SL
V-12SL
V+12SR
V-12SR
V+12SBL
V-12SBL
V+12SBR
V-12SBR
(C)
(FL)
(SL)
(SBL)
GNDCH
GNDSL
GNDSR
GNDSBL
GNDSBR
GNDL
GNDR
GNDC
GNDH
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16W unless otherwise noted.
Toleranee: (J) ±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB: CKSRYB, CH: CCSRCH
3. NM: No Mount
: Audio Signal Route

10.23 ICE INTERFACE ASSY



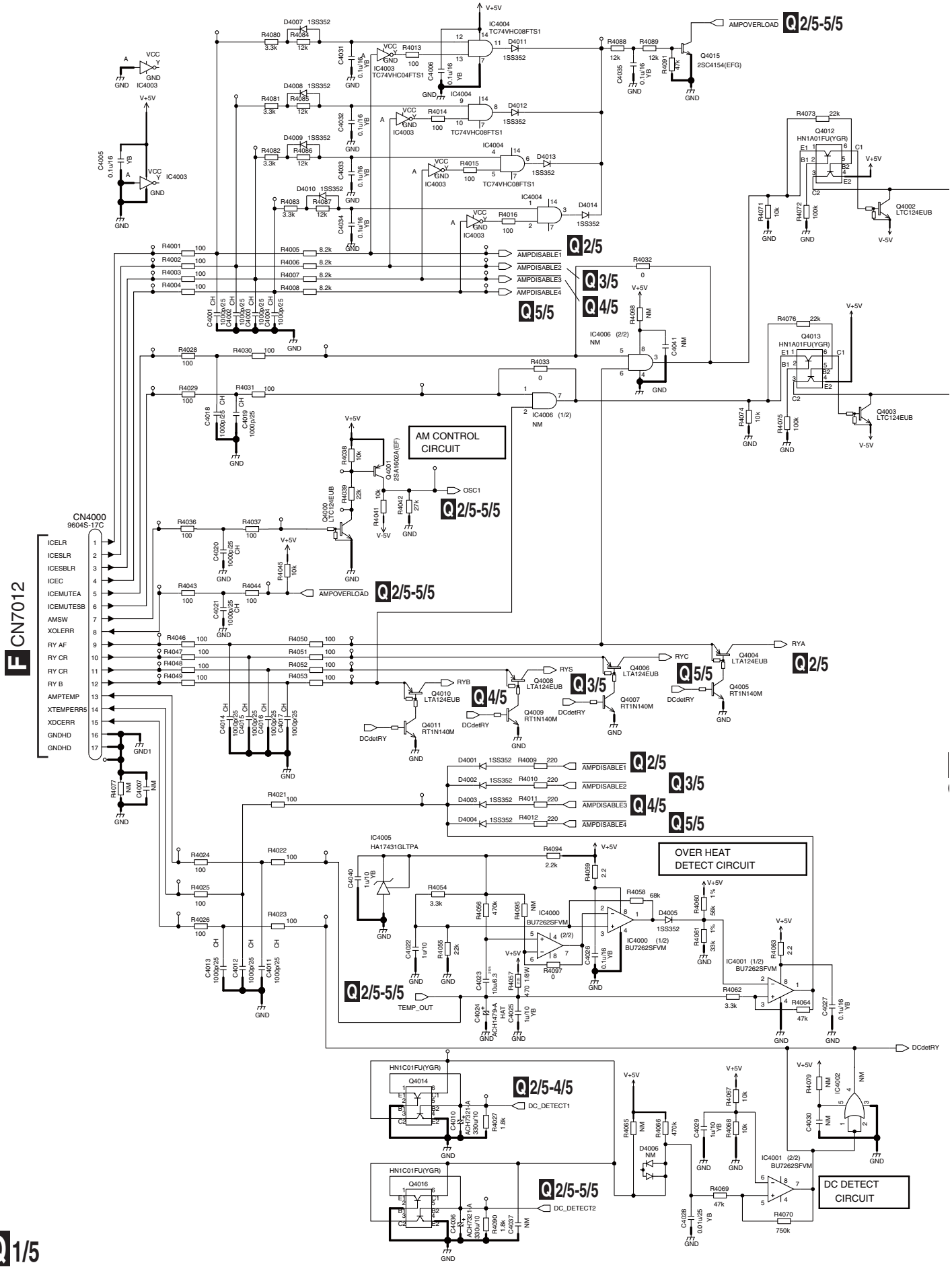
P ICE INTERFACE ASSY (AWX9430)



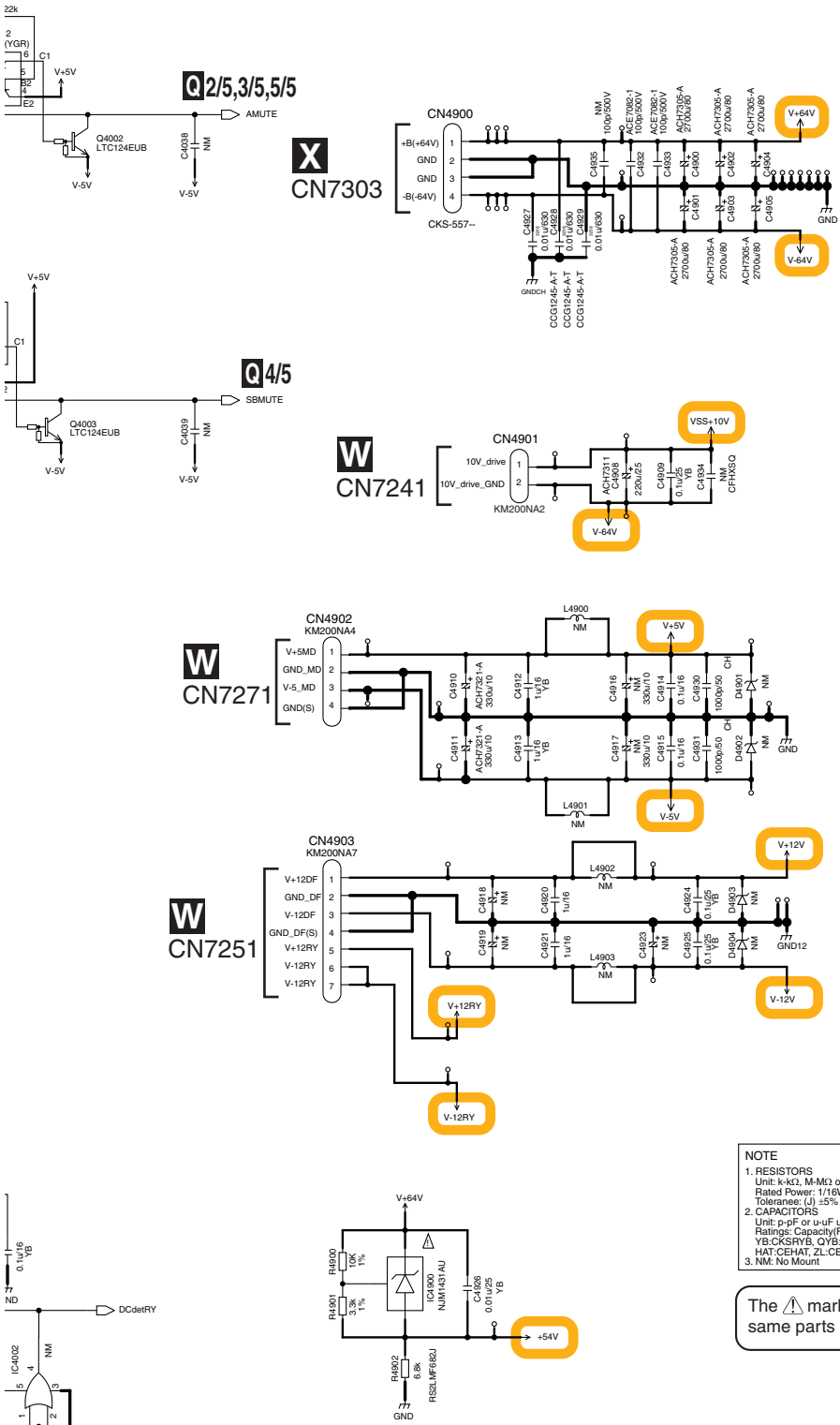
NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W unless otherwise noted.
   Toleranee: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   YB: CKSRYB, CH : CCSRCH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

➡ : Audio Signal Route

10.24 ICEPOWER AMP ASSY (1/5)



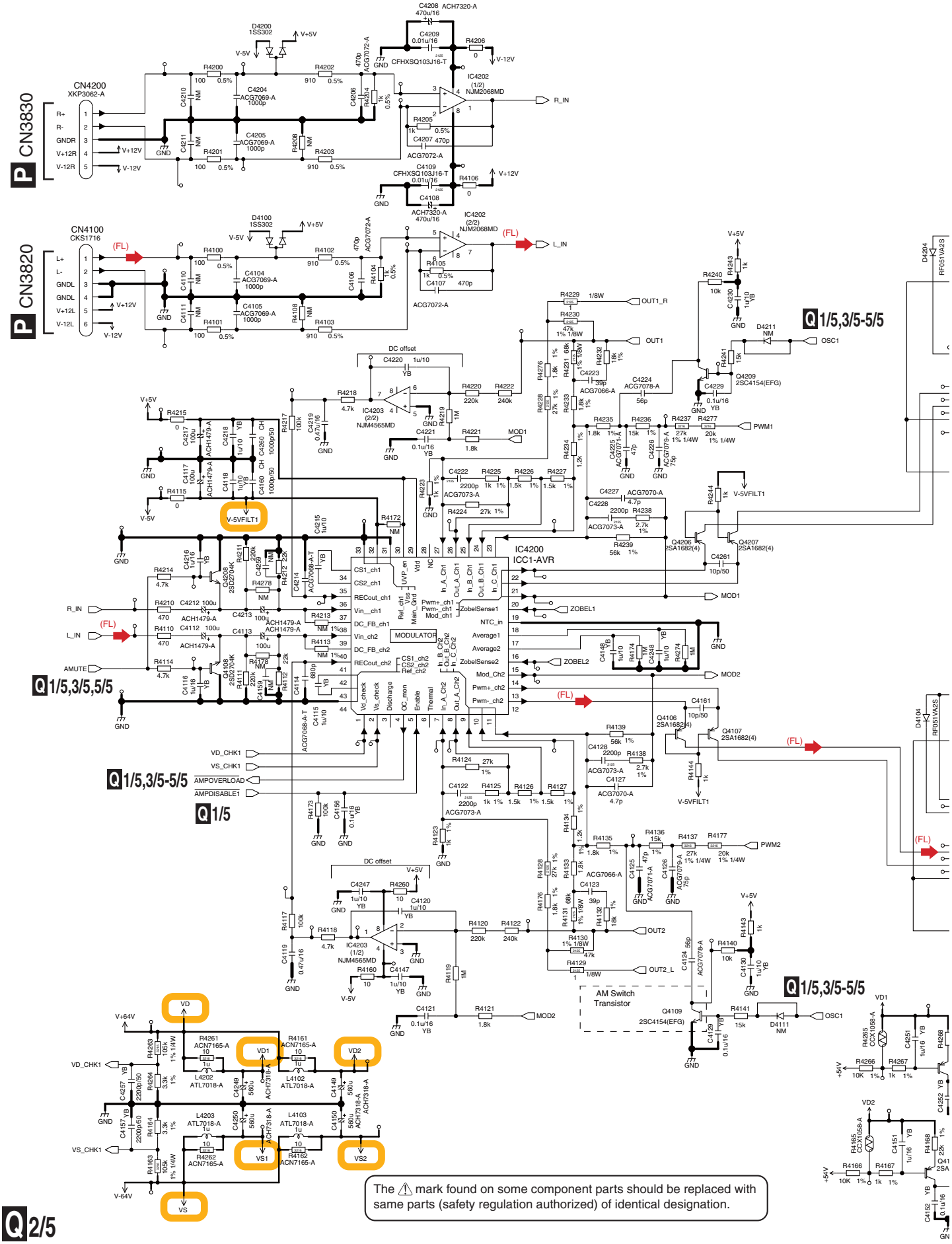
Q1/5 ICEPOWER AMP ASSY (AWH7022: SC-27) (AWH7019: SC-25, SC-9540)



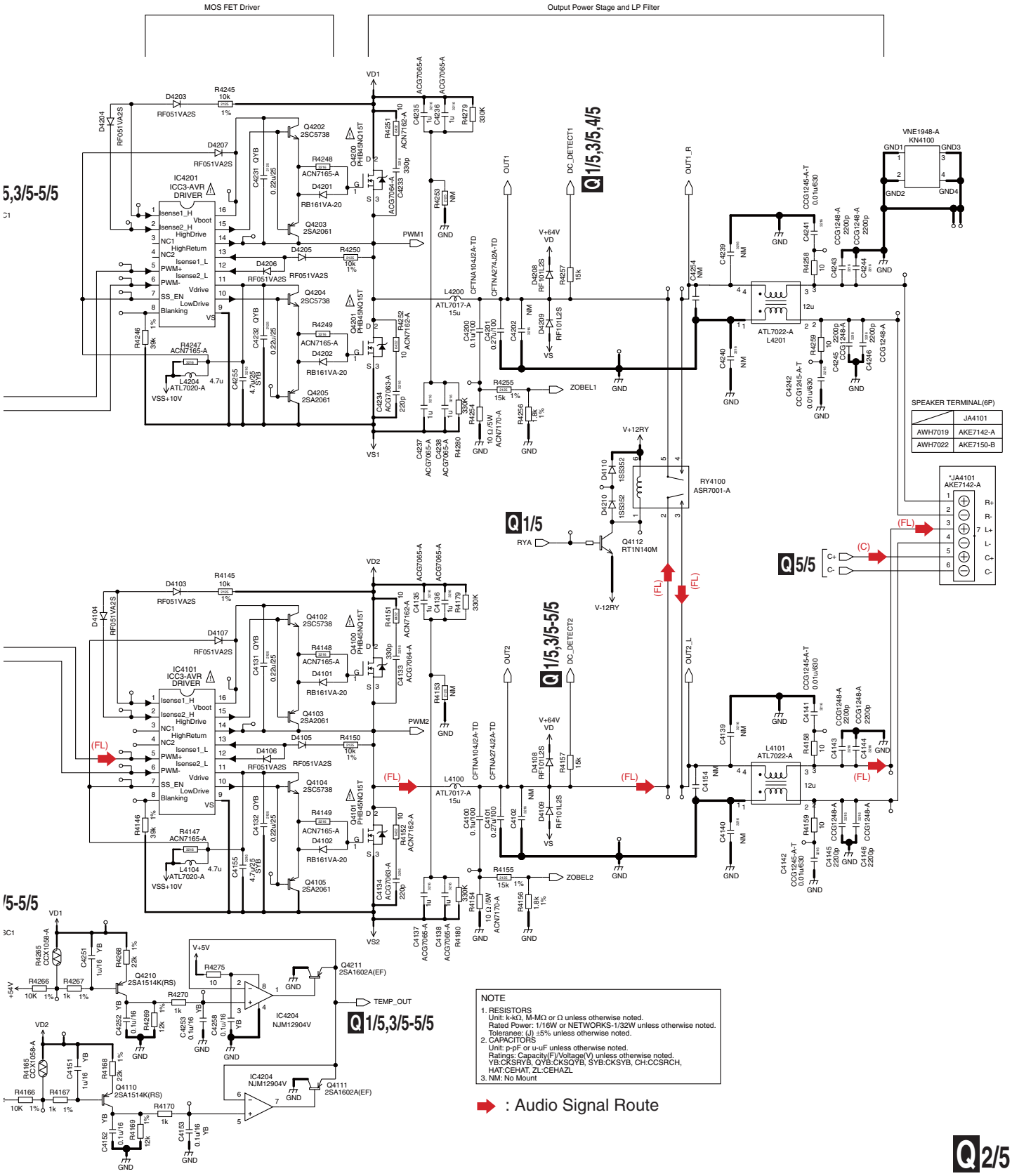
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16W or NETWORKS-1/32W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, QYB:CKSQYB, SYB:CKSYB, CH:CCSRCH, HAT:CEHAT, ZL:CEHAZL
3. NM: No Mount

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

10.25 ICEPOWER AMP ASSY (2/5)



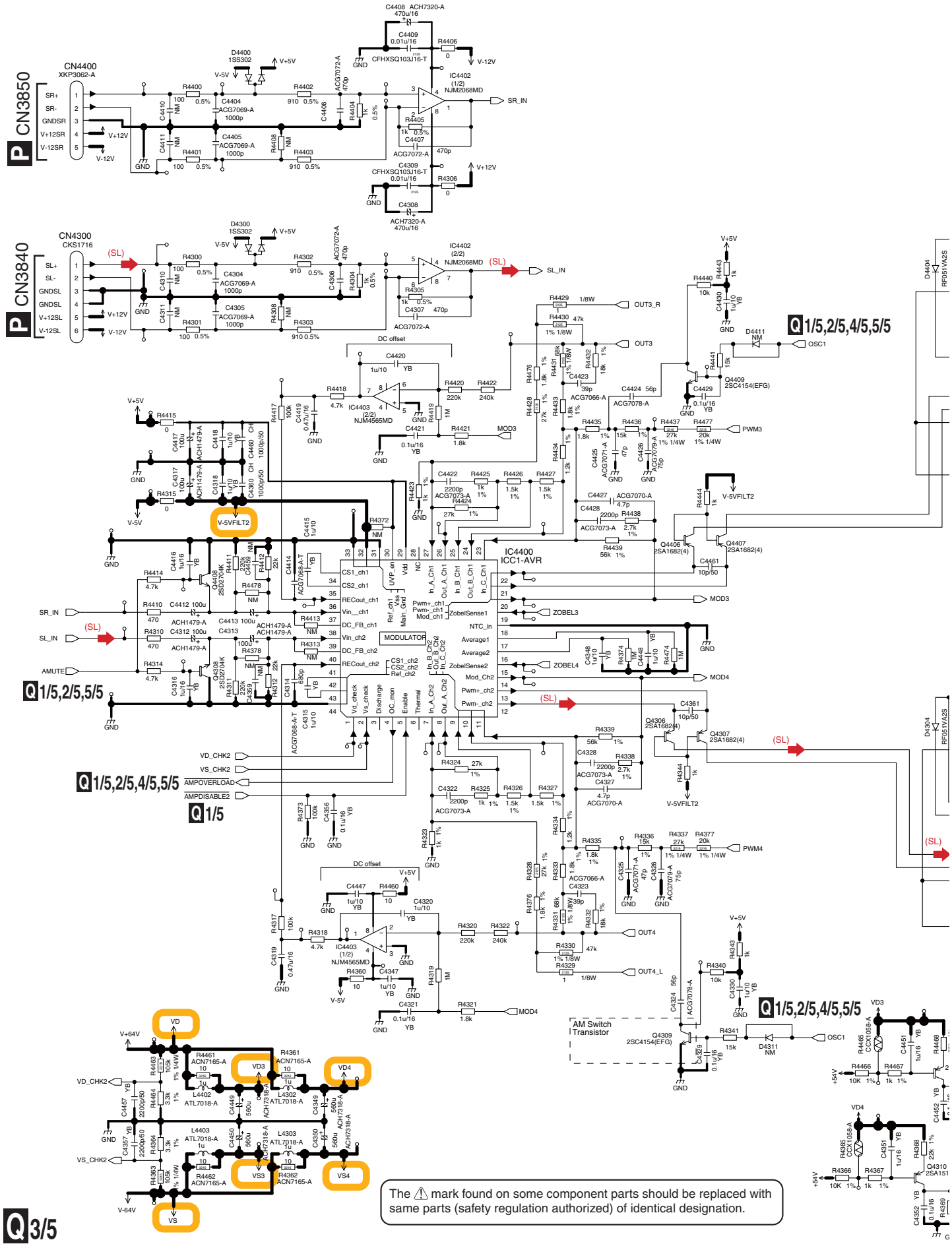
Q2/5 ICEPOWER AMP ASSY (AWH7022: SC-27) (AWH7019: SC-25, SC-9540)



NOTE
1. RESISTORS
Unit: K-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16W or NETWORKS-1/32W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, QYB:CKSQYB, SYB:CKSYB, CH:CCSRCH, HAT:CEHAT, ZL:CEHAZL
3. NM: No Mount

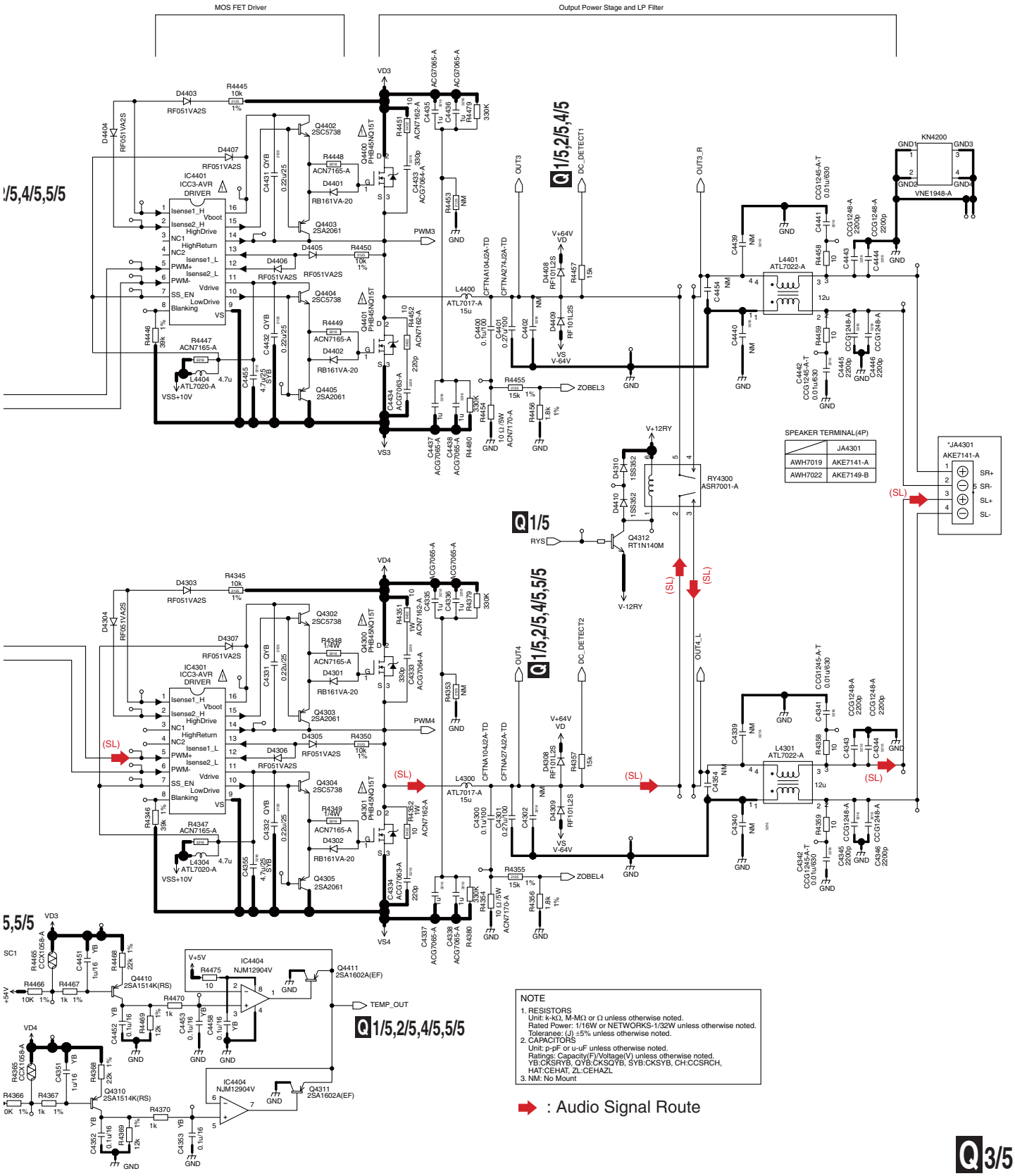
➡ : Audio Signal Route

10.26 ICEPOWER AMP ASSY (3/5)



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

Q3/5 ICEPOWER AMP ASSY (AWH7022: SC-27) (AWH7019: SC-25, SC-9540)

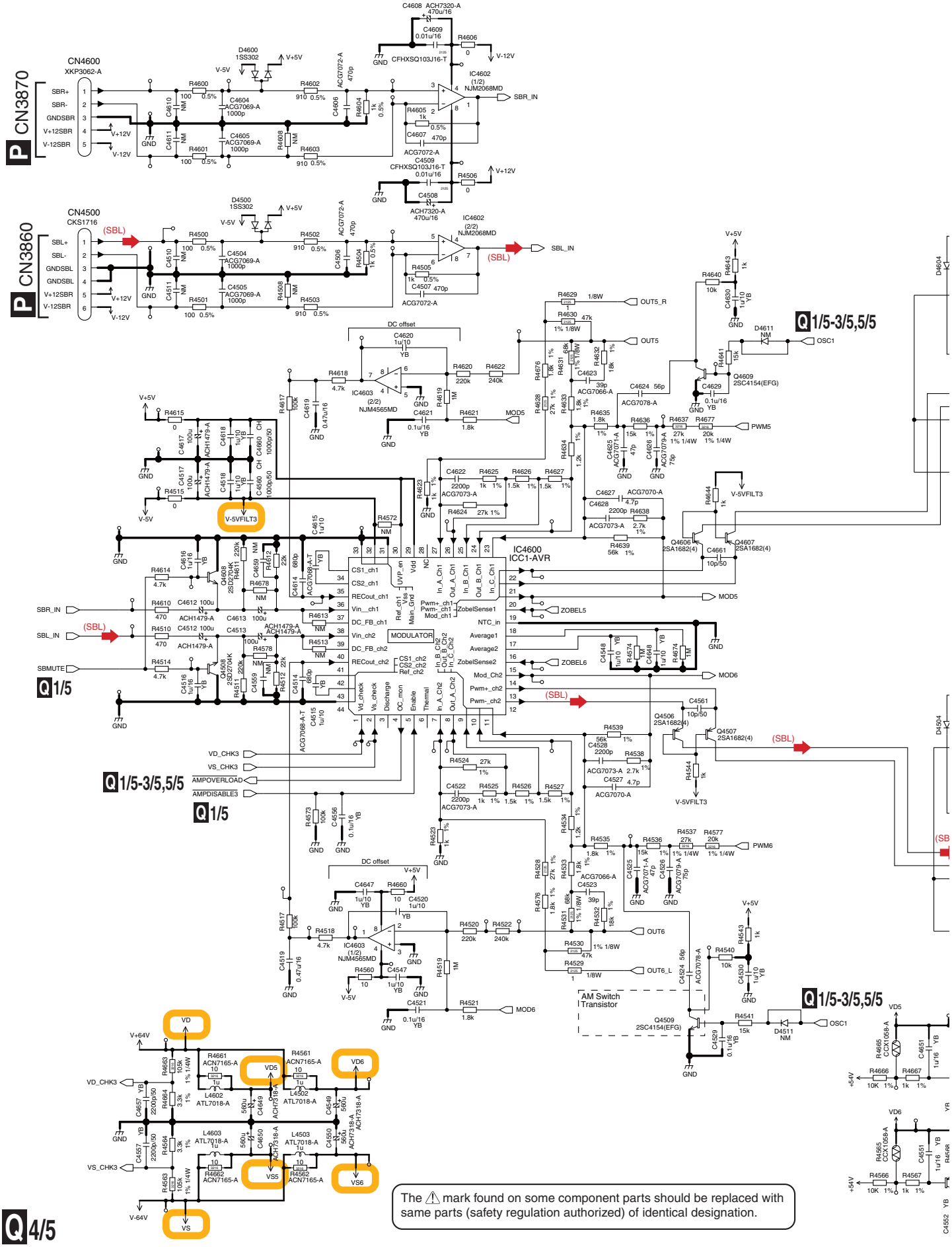


NOTE

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W or NETWORKS-1/32W unless otherwise noted.
   Tolerances: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   YB:CKSRYB, CYB:CKSQYB, SYB:CKSYB, CH:CCSRCH, HAT:CEHAT, ZL:CEHAZL
3. NM: No Mount

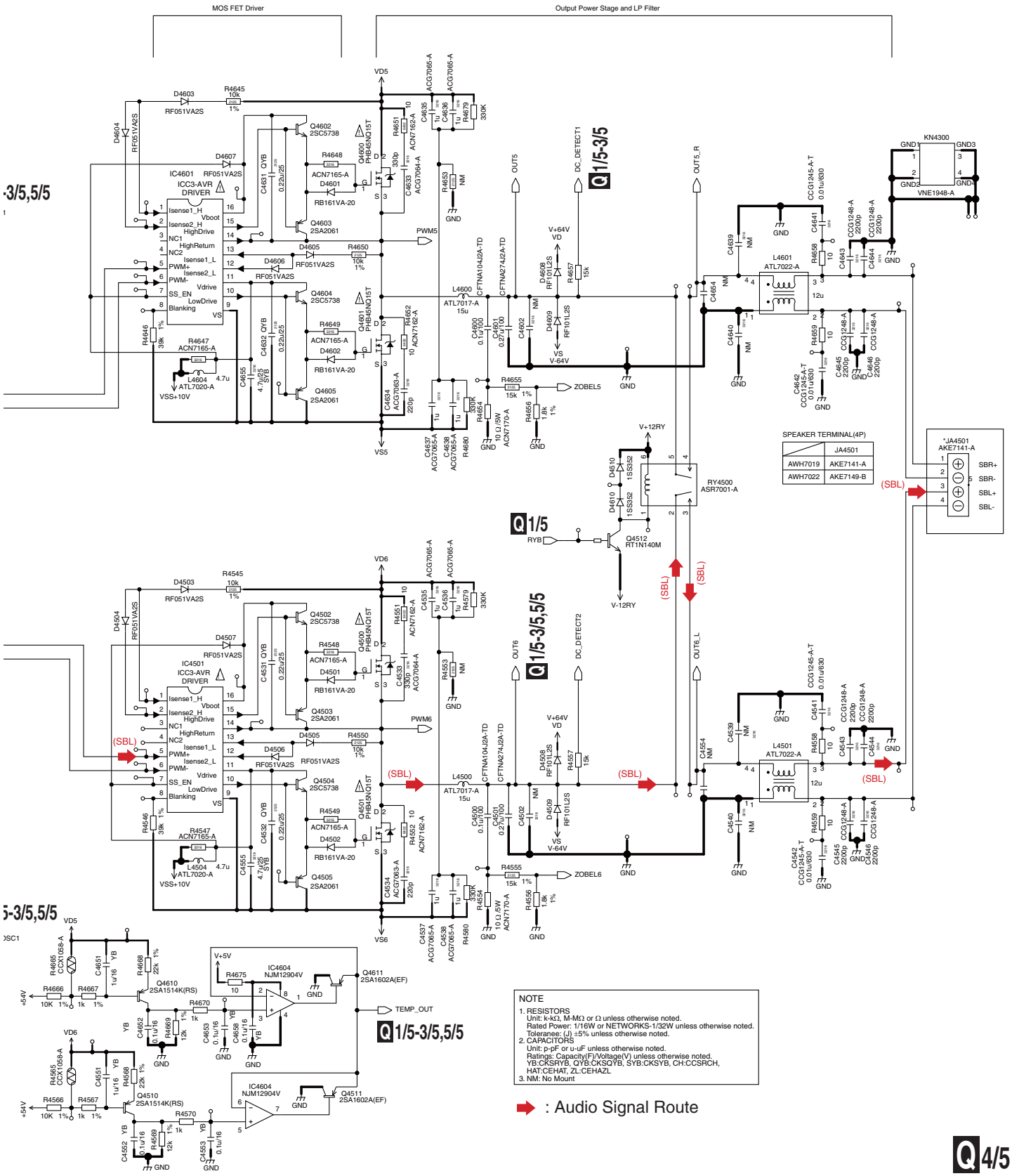
➡ : Audio Signal Route

10.27 ICEPOWER AMP ASSY (4/5)

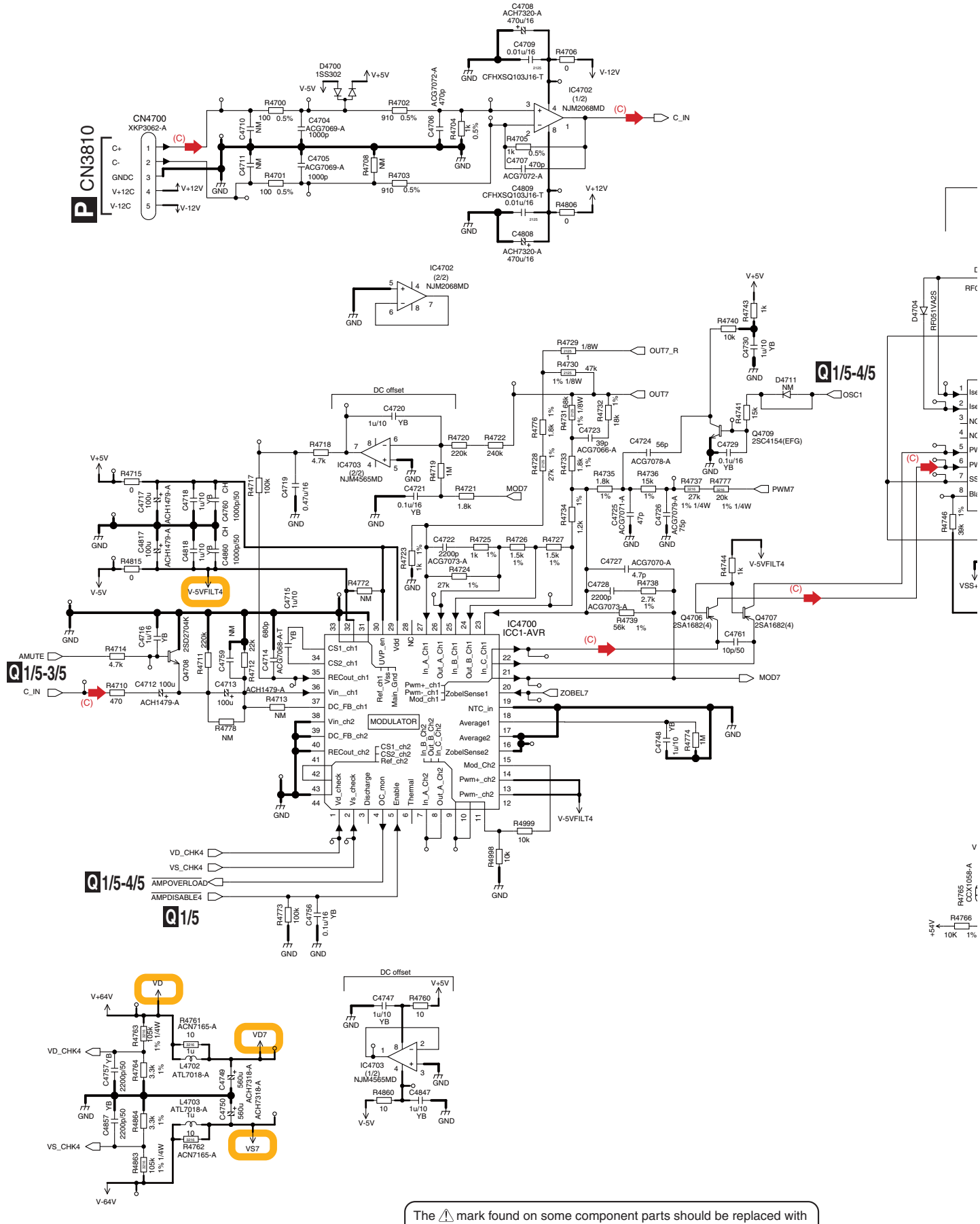


The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

Q4/5 ICEPOWER AMP ASSY (AWH7022: SC-27) (AWH7019: SC-25, SC-9540)

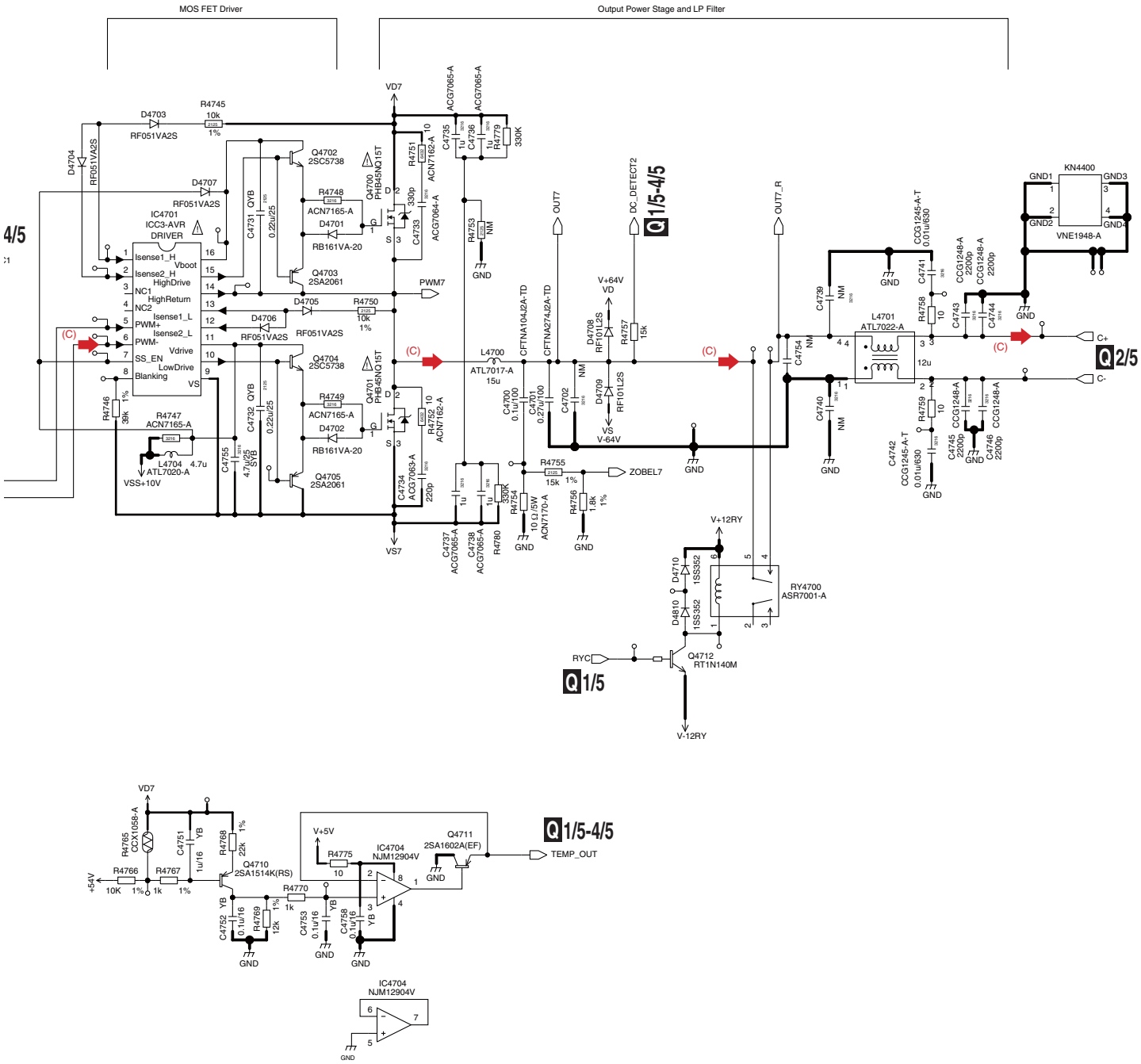


10.28 ICEPOWER AMP ASSY (5/5)



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

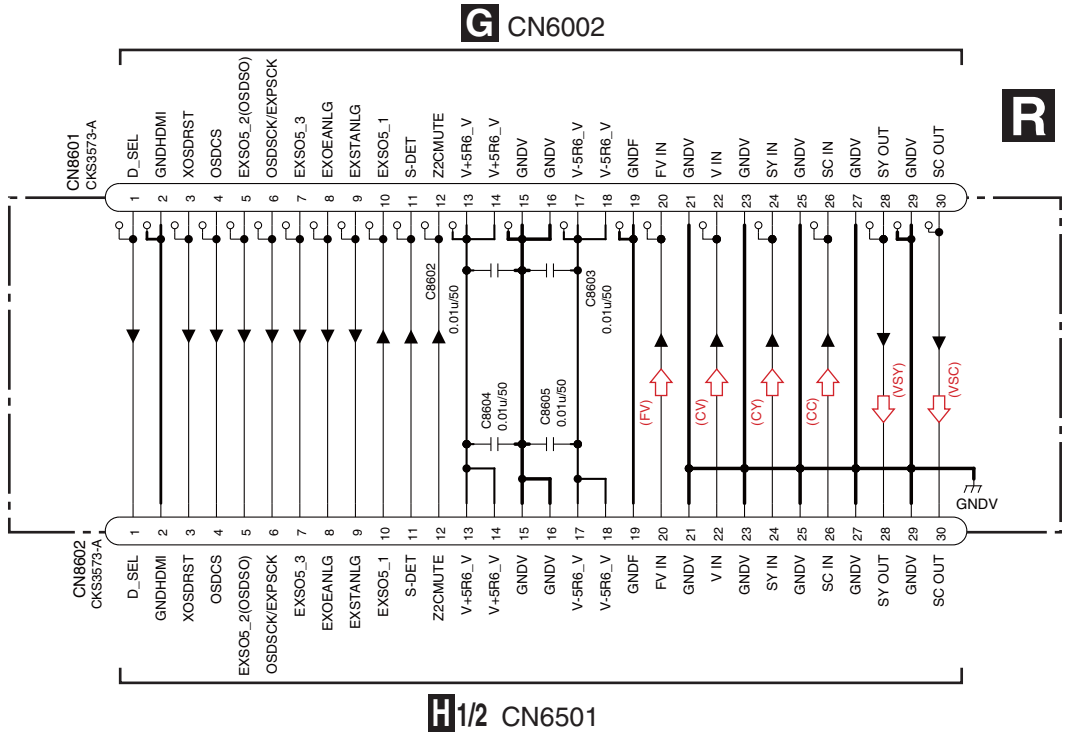
Q5/5 ICEPOWER AMP ASSY (AWH7022: SC-27) (AWH7019: SC-25, SC-9540)



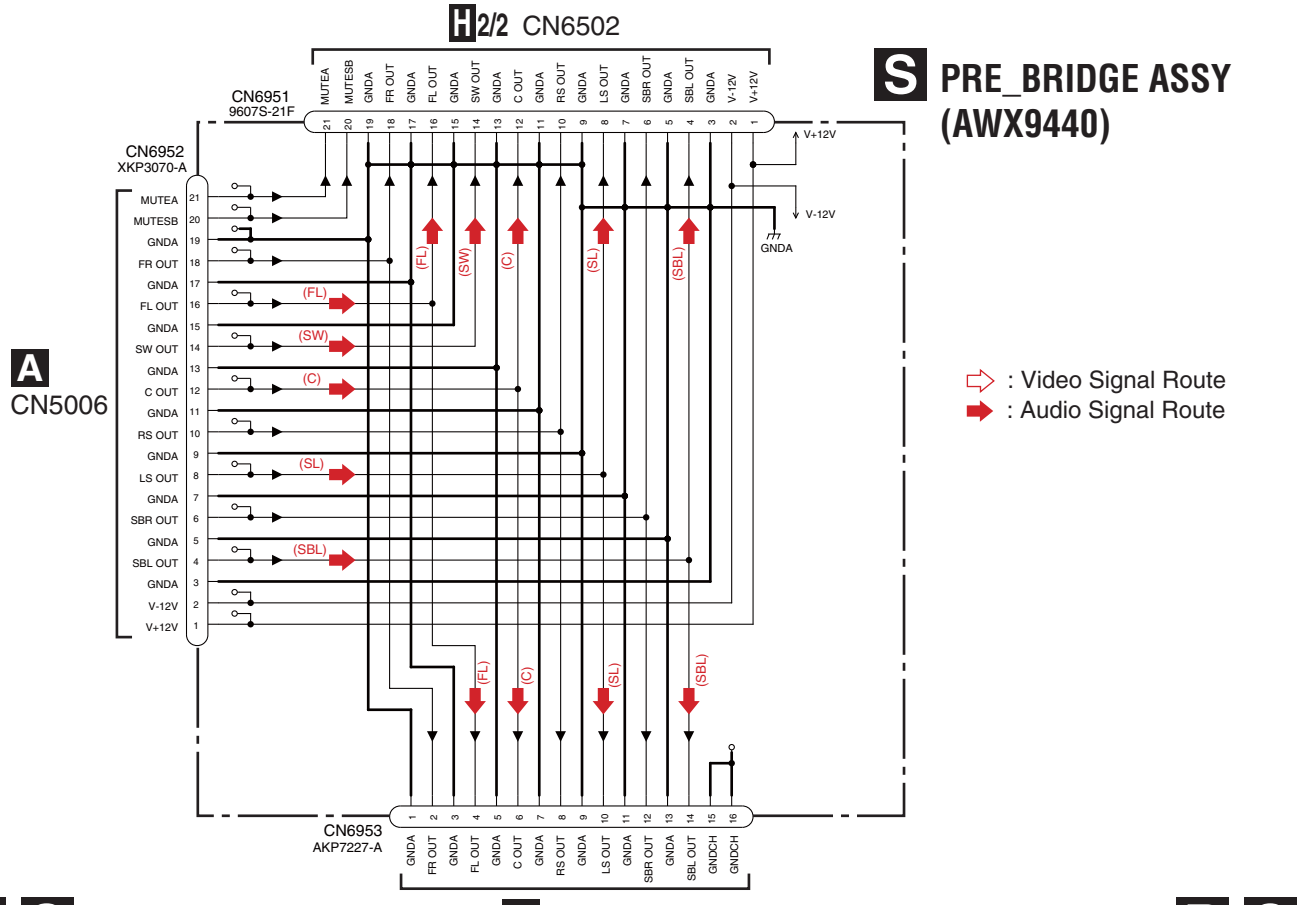
NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W or NETWORKS-1/32W unless otherwise noted.
   Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   YB:CKSRYB, QYB:CKSQYB, SYB:CKSYB, CH:CCSRCH,
   HAT:CEHAT, ZL:CEHAZL
3. NM: No Mount

: Audio Signal Route

10.29 V-BRIDGE AND PRE_BRIDGE ASSYS

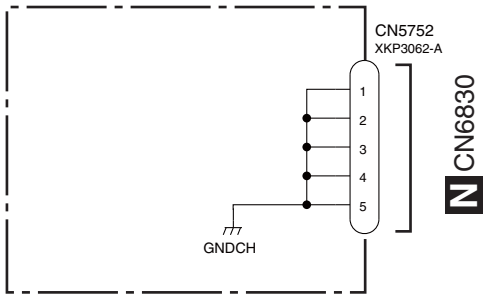


NOTE
1. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
2. NM: No Mount



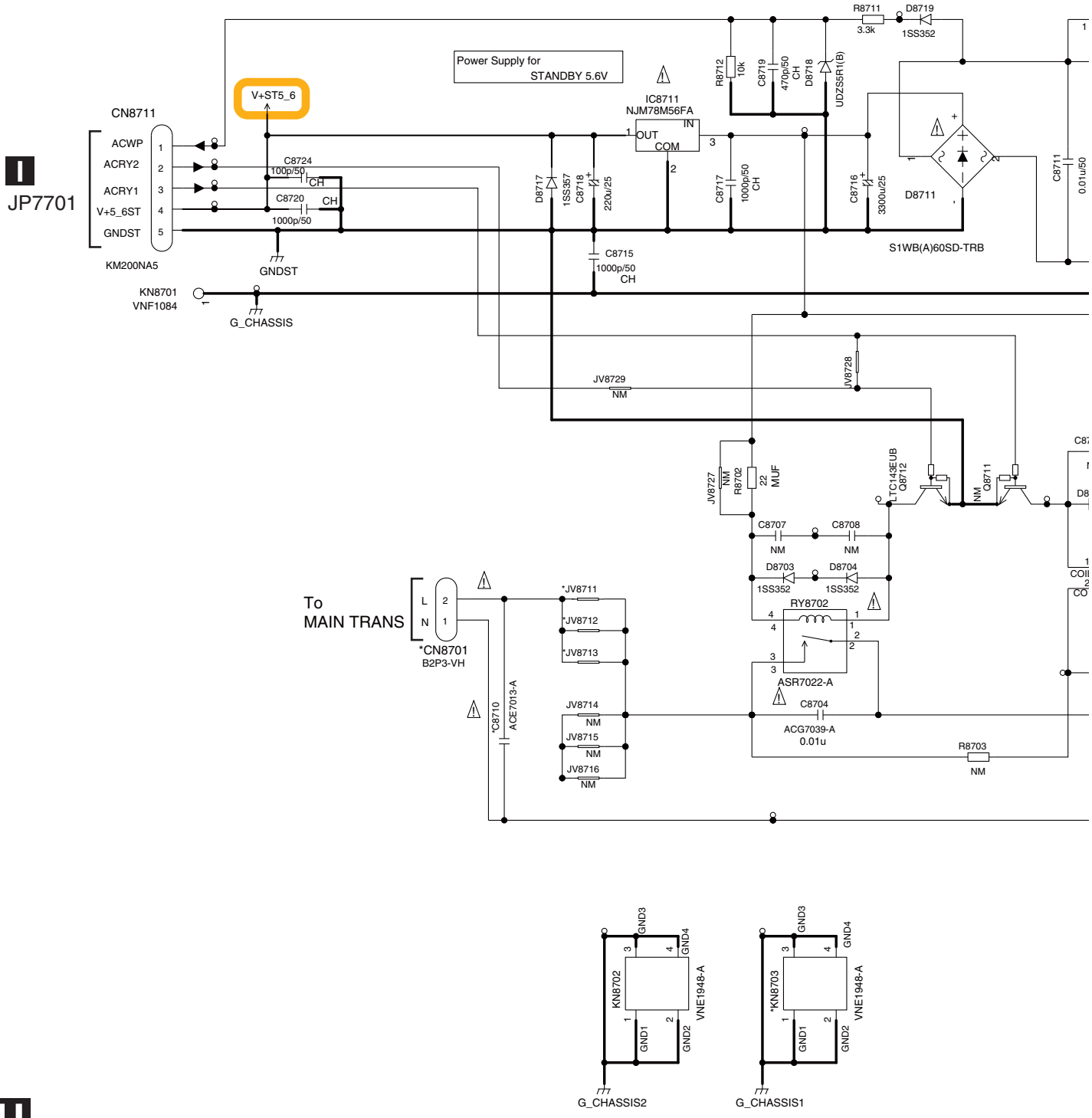
10.30 PRIMARY GUARD ASSY

T PRIMARY GUARD ASSY (AWX9436)

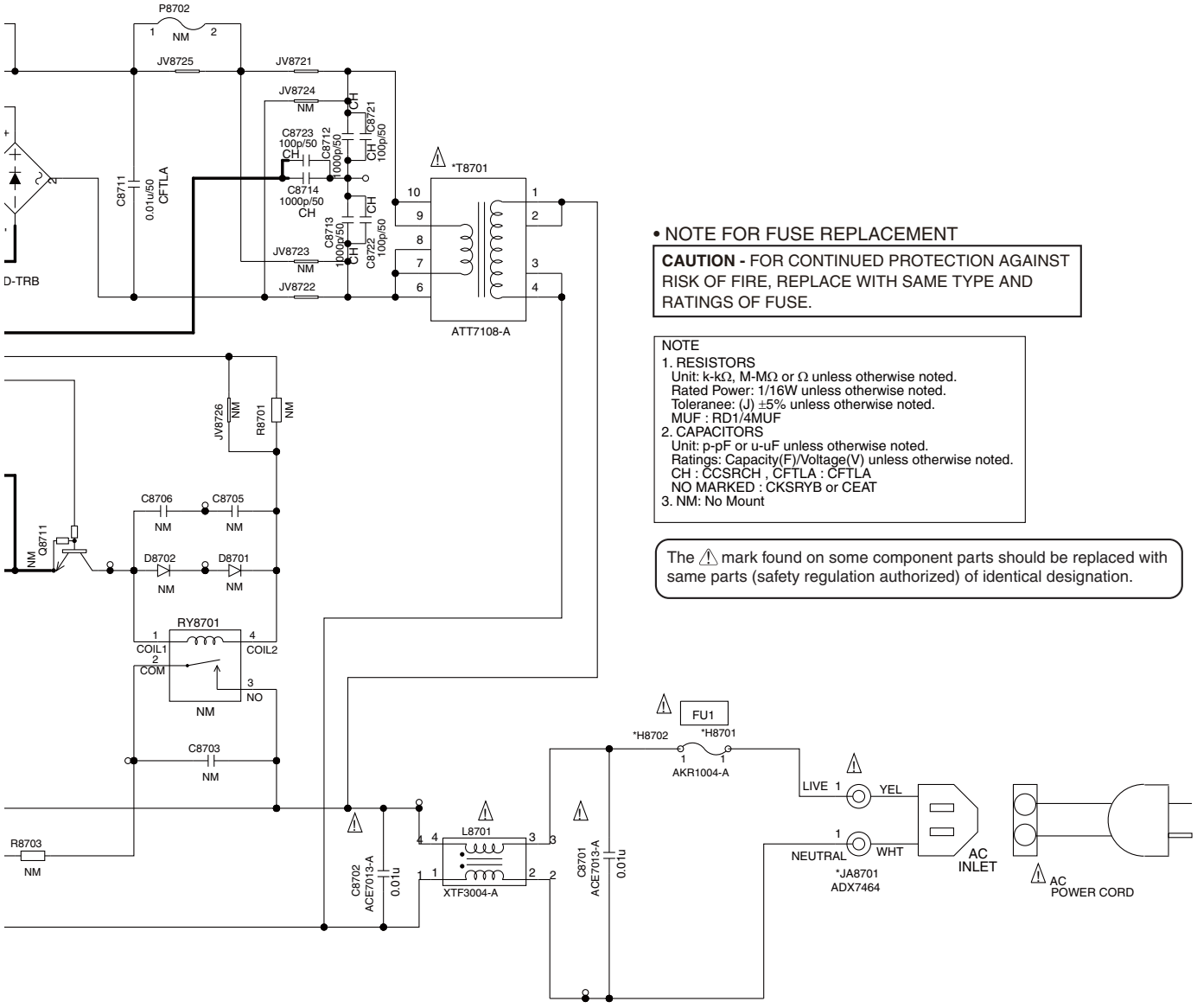


NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W unless otherwise noted.
   Toleranee: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   YB: CKSRYB, CH: CCSRCH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

10.31 PRIMARY ASSY



U PRIMARY ASSY (AWX9458)



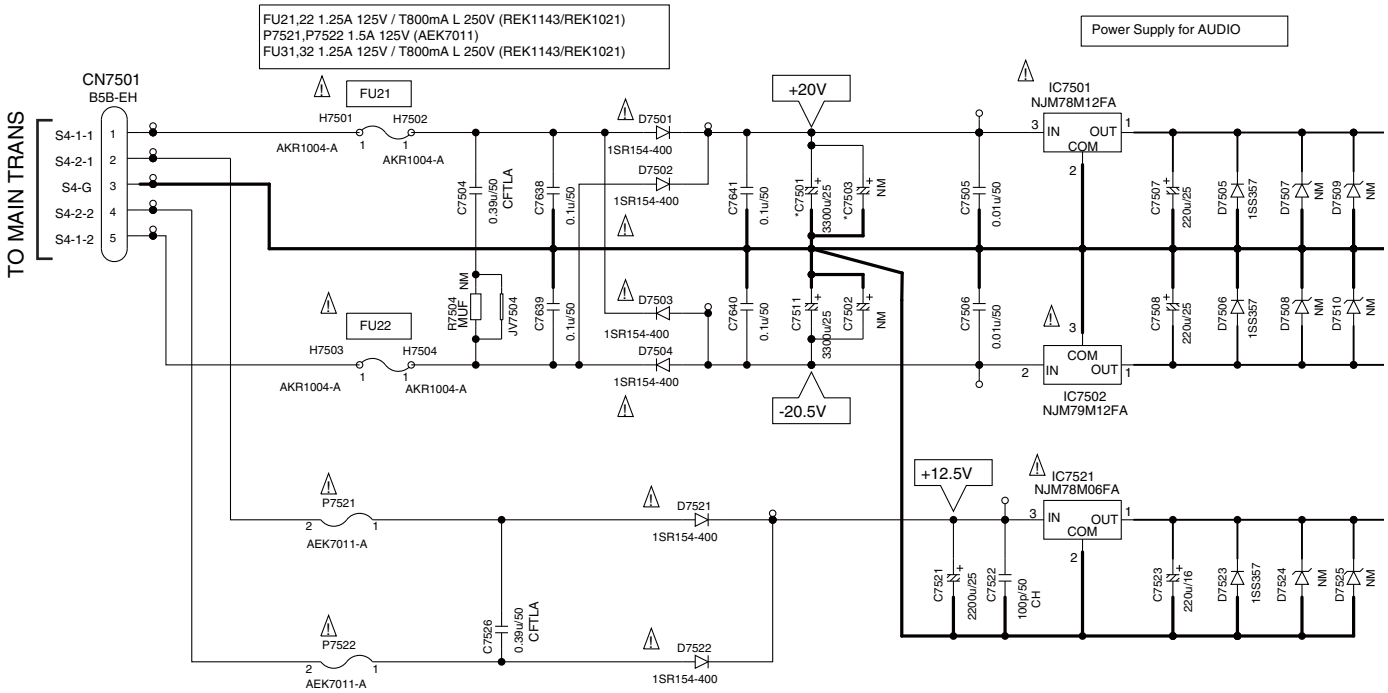
• NOTE FOR FUSE REPLACEMENT

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

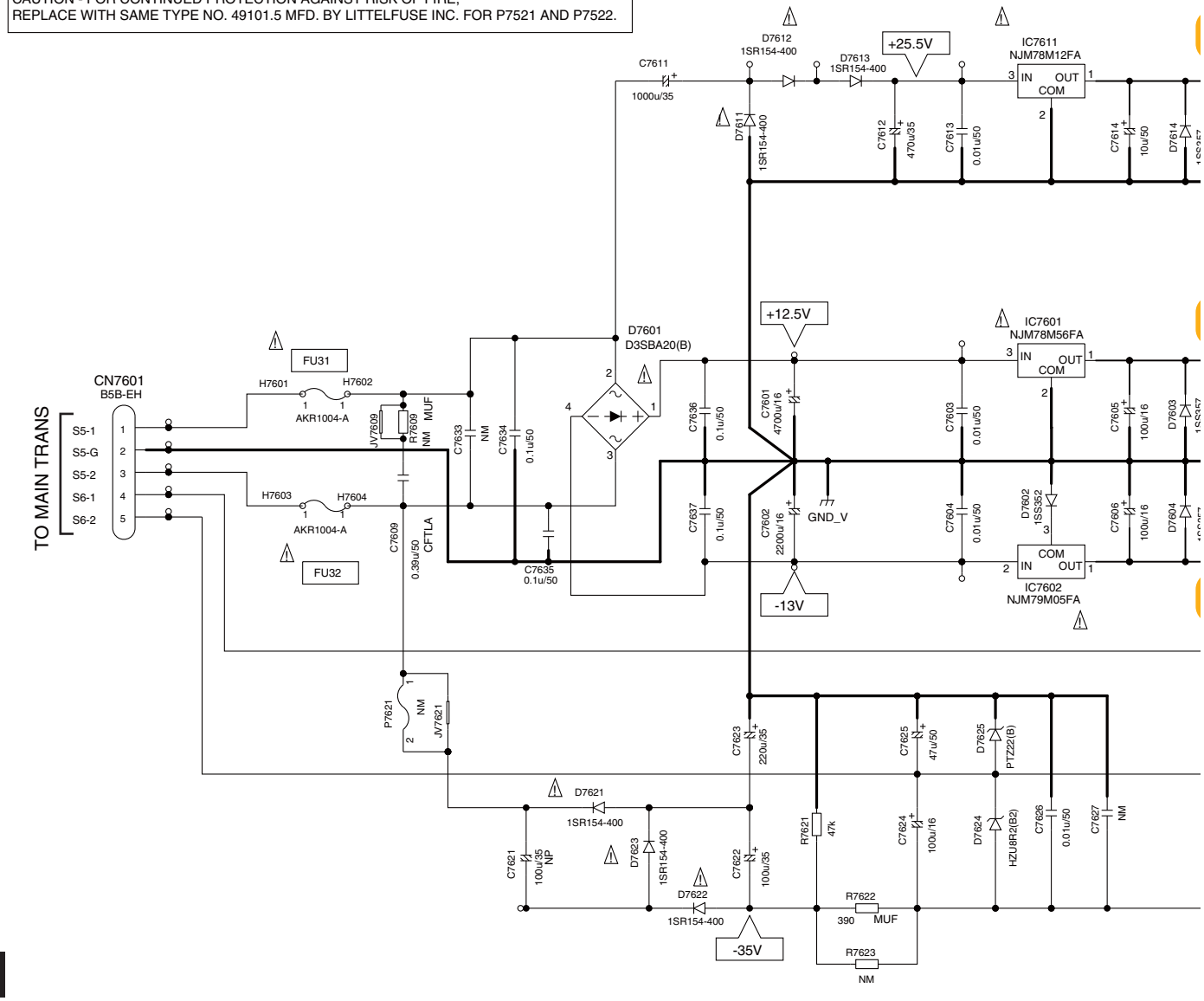
NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W unless otherwise noted.
   Toleranee: (J) ±5% unless otherwise noted.
   MUF : RD1/4MUF
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   CH : CCSRCH , CFTLA : CFTLA
   NO MARKED : CKSRYB or CEAT
3. NM: No Mount

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

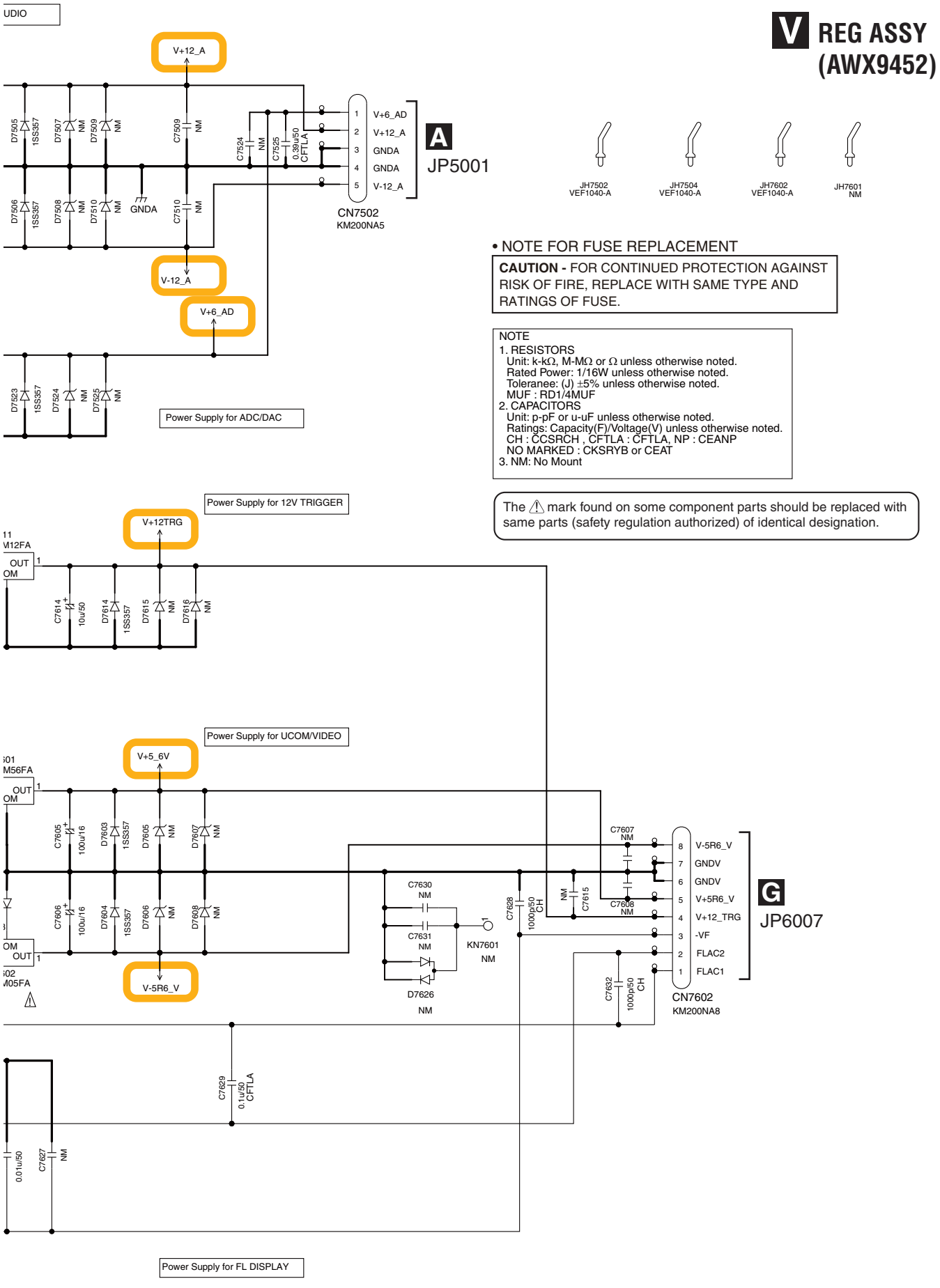
10.32 REG ASSY



CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE NO. 49101.5 MFD. BY LITTELFUSE INC. FOR P7521 AND P7522.



V REG ASSY (AWX9452)



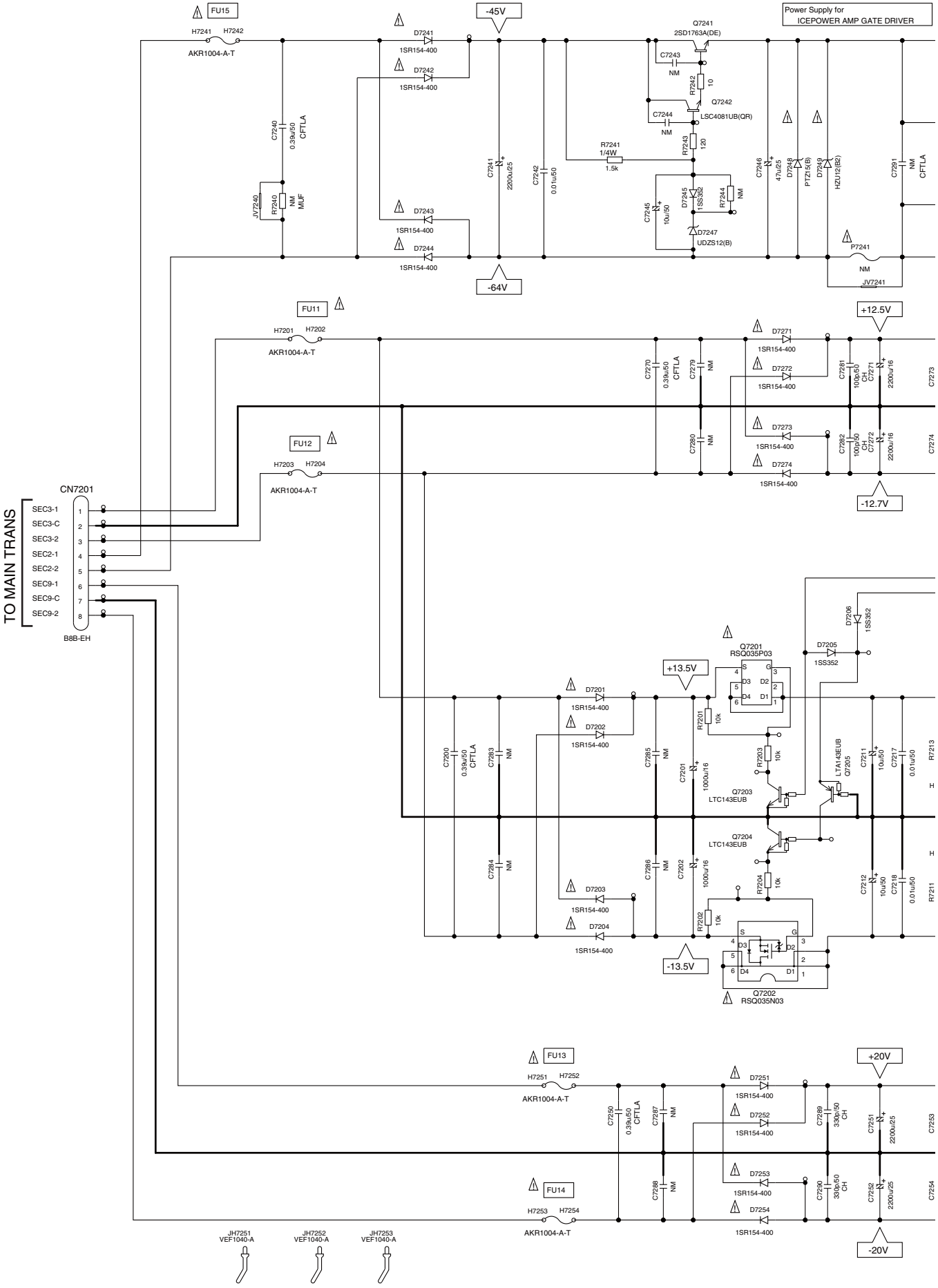
• NOTE FOR FUSE REPLACEMENT

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

NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W unless otherwise noted.
   Toleranee: (J) ±5% unless otherwise noted.
   MUF : RD1/4MUF
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   CH : CCSRCH , CFTLA : CFTLA, NP : CEANP
   NO MARKED : CKSRYB or CEAT
3. NM: No Mount

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

10.33 ICE_REG ASSY



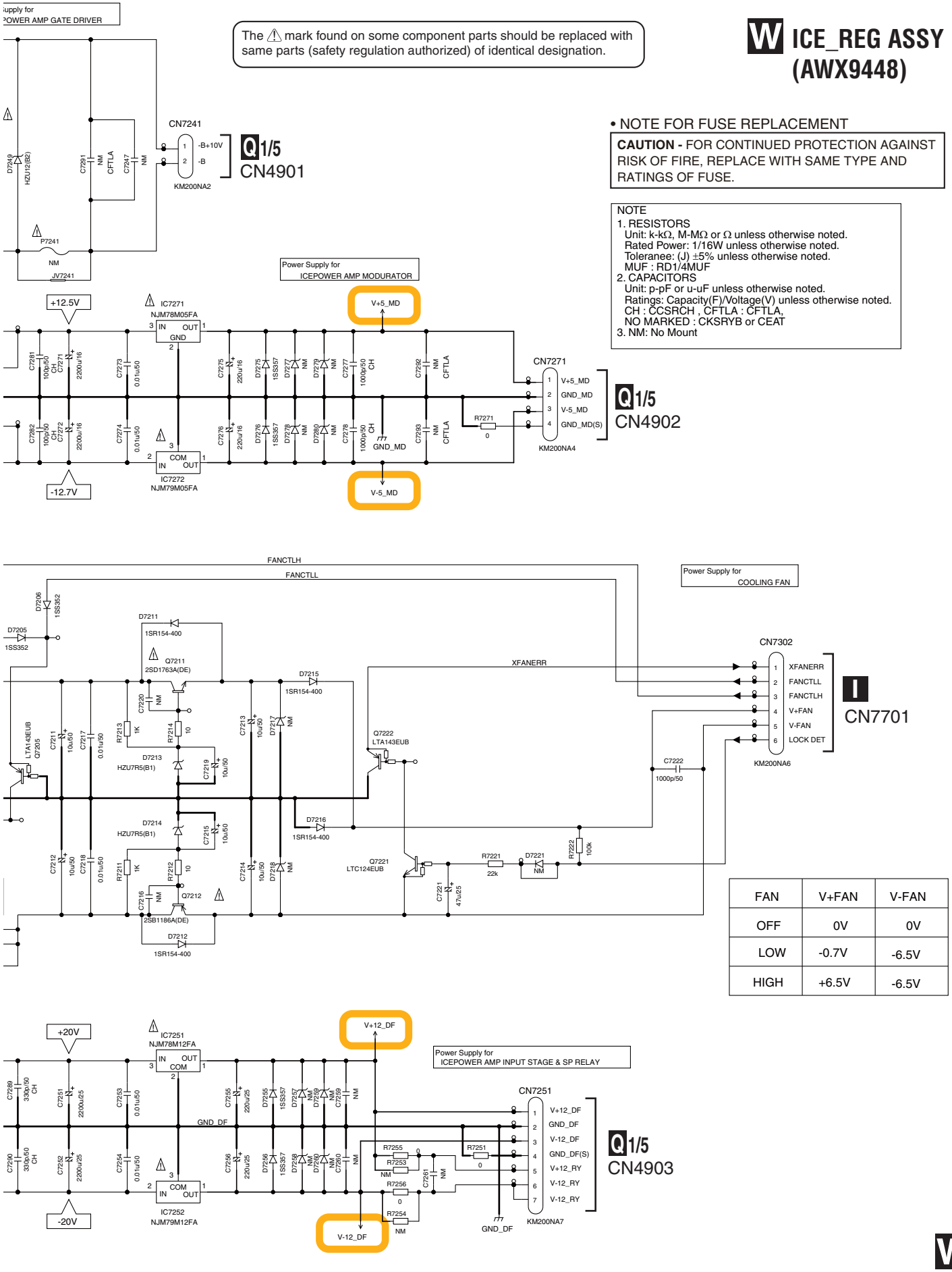
W ICE_REG ASSY (AWX9448)

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

• NOTE FOR FUSE REPLACEMENT

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

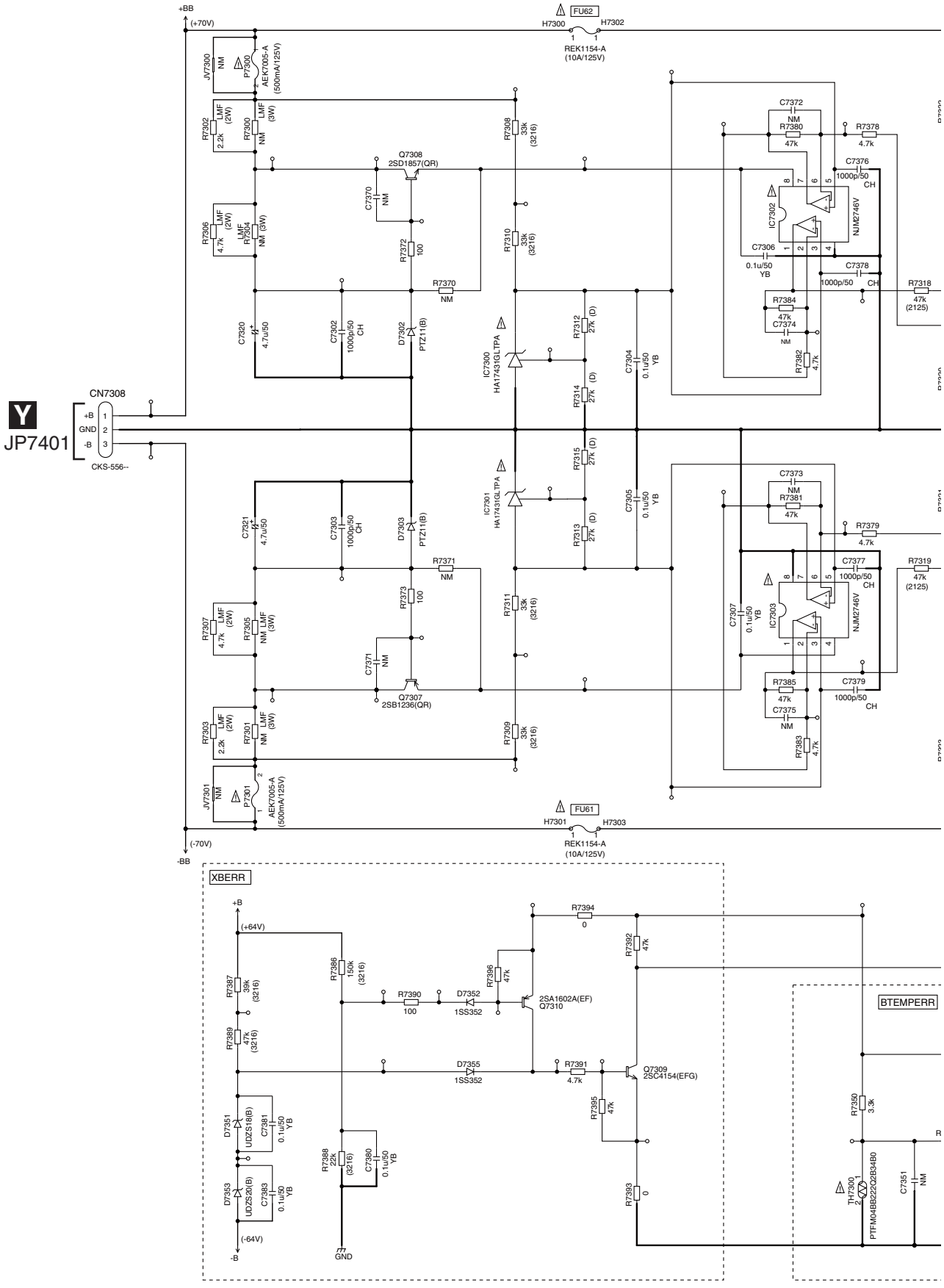
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16W unless otherwise noted.
Toleranee: (J) ±5% unless otherwise noted.
MUF : RD1/4MUF
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CH : CCSRCH , CFTLA : CFTLA,
NO MARKED : CKSRYB or CEAT
3. NM: No Mount



10.34 B_REG ASSY

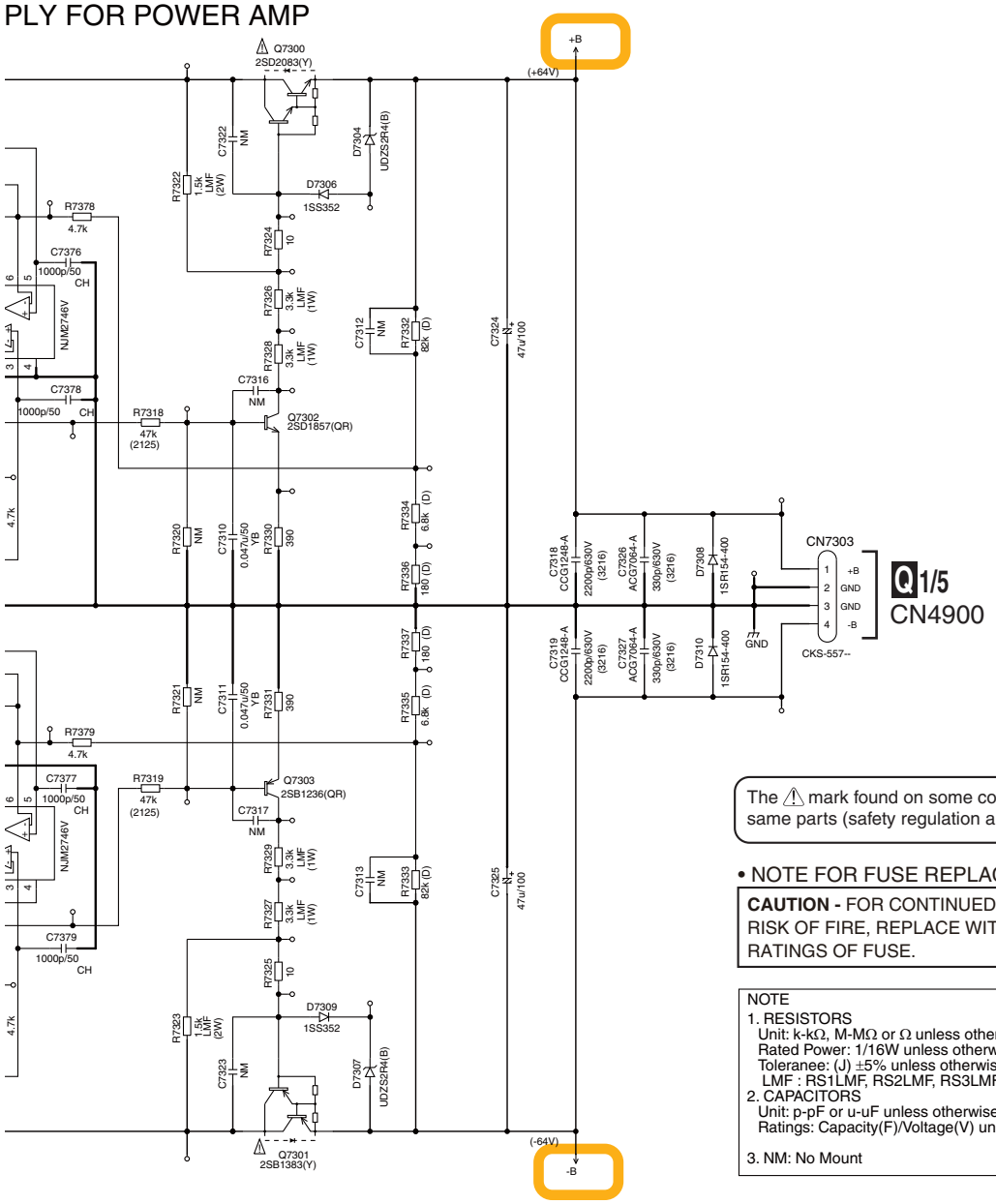
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE NO. 491.500 MFD. BY LITTELFUSE INC. FOR P7300 AND P7301.

POWER SUPPLY FOR PO



X B_REG ASSY (AWX9450)

PLY FOR POWER AMP



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

• NOTE FOR FUSE REPLACEMENT

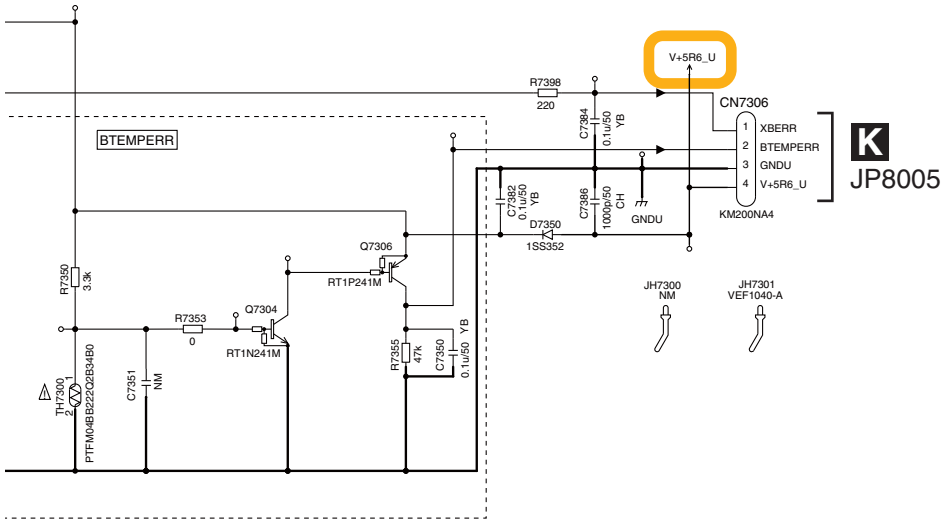
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W unless otherwise noted.
   Toleranee: (J) ±5% unless otherwise noted.
   LMF : RS1LMF, RS2LMF, RS3LMF
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.

3. NM: No Mount

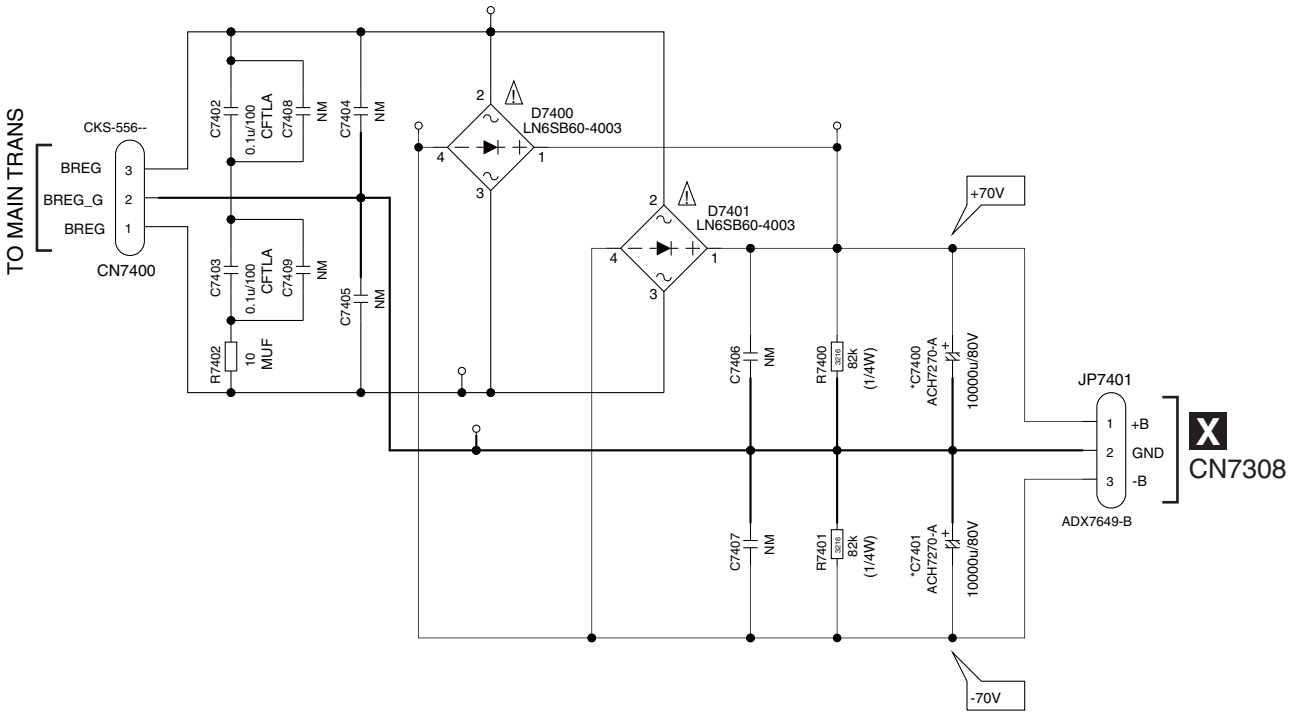
PROTECTION DETECT

PROTECT MODE	Normal	Detect
XBERR	Hi	Low
BTEMPERR	Low	Hi



10.35 B_DIODE ASSY

Y B_DIODE ASSY (AWX9451)



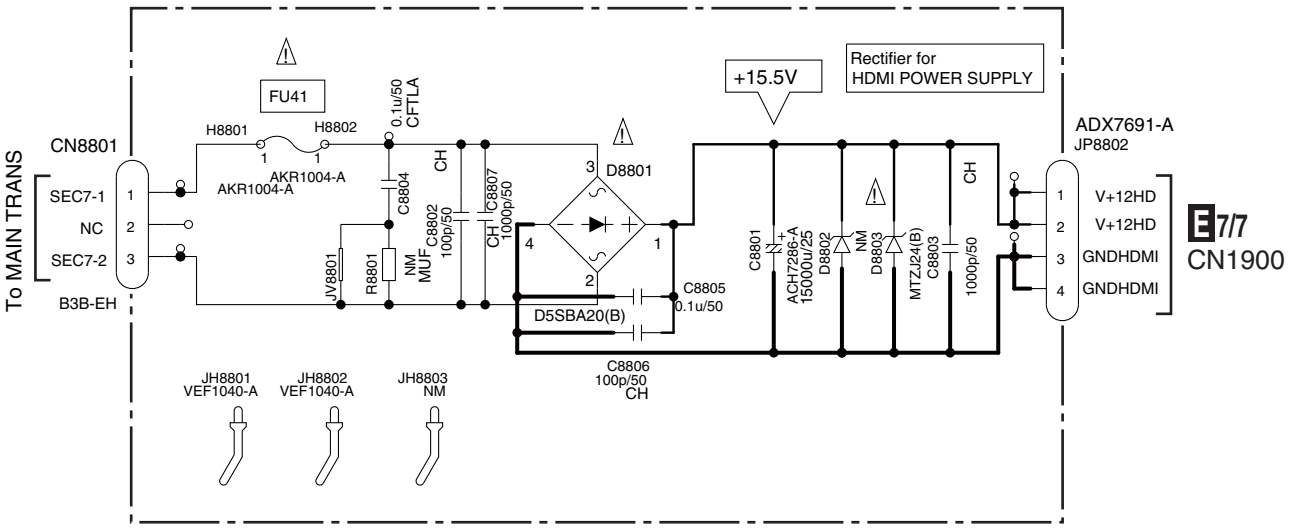
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16W unless otherwise noted.
Toleranee: (J) ±5% unless otherwise noted.
MUF : RD1/4MUF
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CFTLA : CFTLA

3. NM: No Mount

10.36 HDMI_RECT AND H GUARD ASSYS

Z HDMI_RECT ASSY (AWX9459)



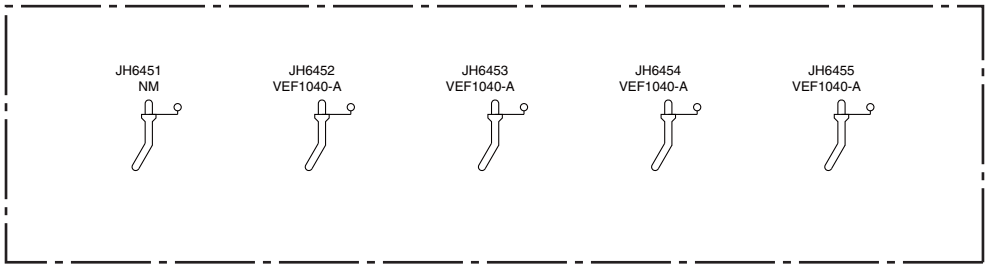
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

• NOTE FOR FUSE REPLACEMENT

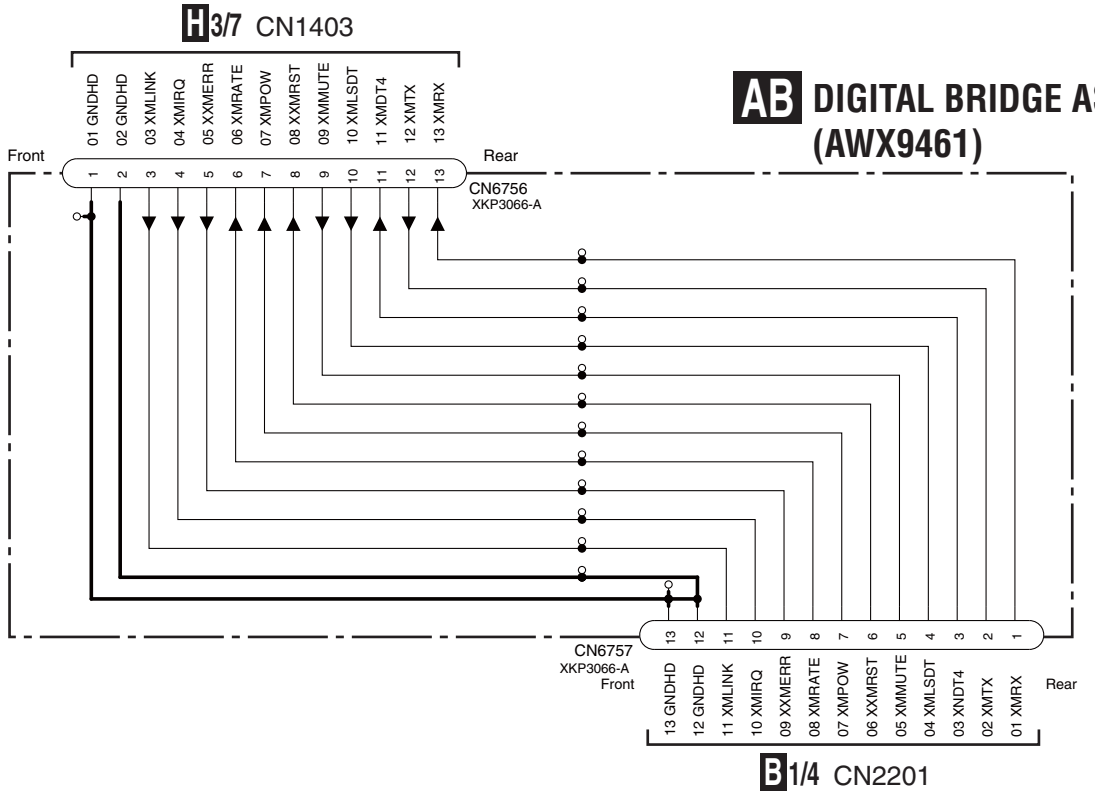
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

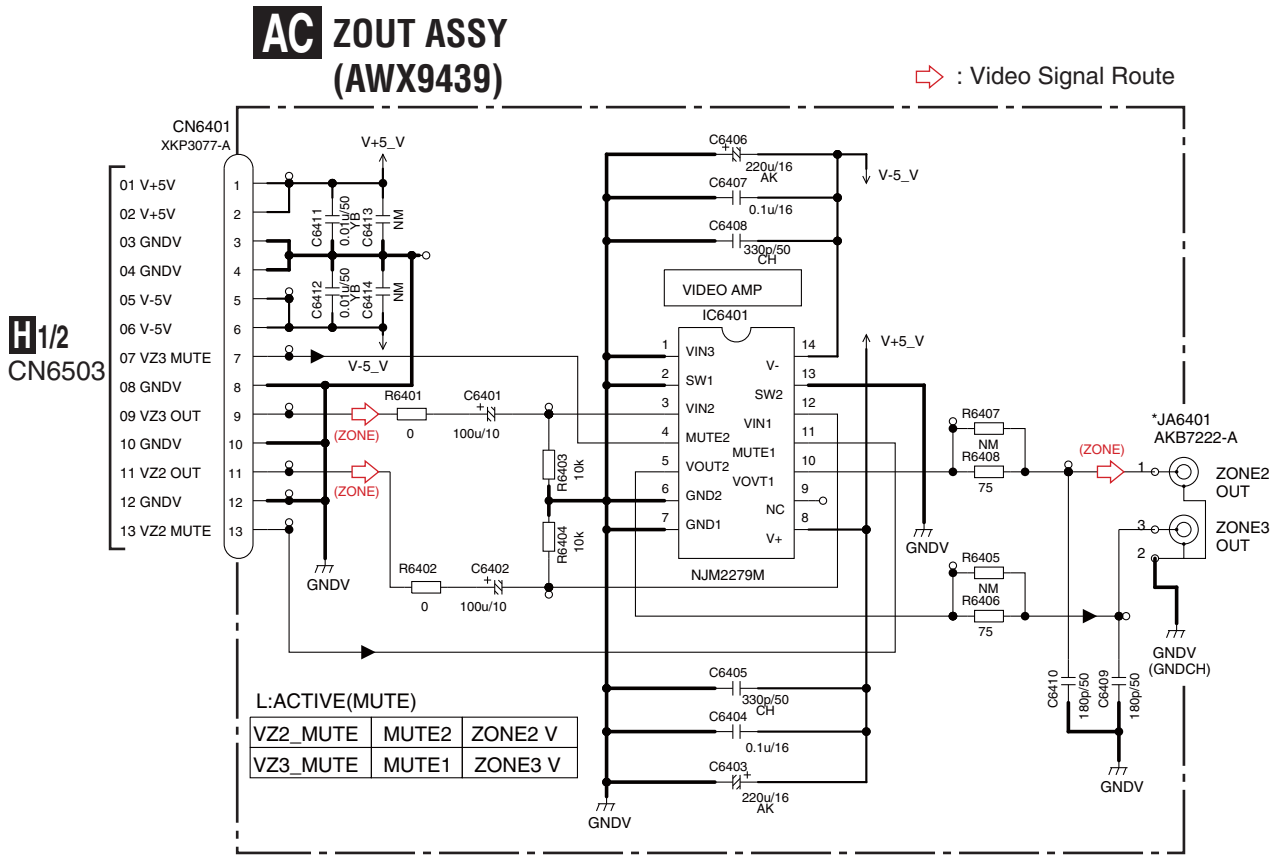
NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16W unless otherwise noted.
   Toleranee: (J) ±5% unless otherwise noted.
   MUF : RD1/4MUF
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   CH : CCSRCH , CFTLA : CFTLA,
   NO MARKED : CKSRYB or CEAT
3. NM: No Mount

AA H GUARD ASSY (AWX9441)



10.37 DIGITAL BRIDGE AND ZOUT ASSYS





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

AB AC

AB AC

A

B

C

D

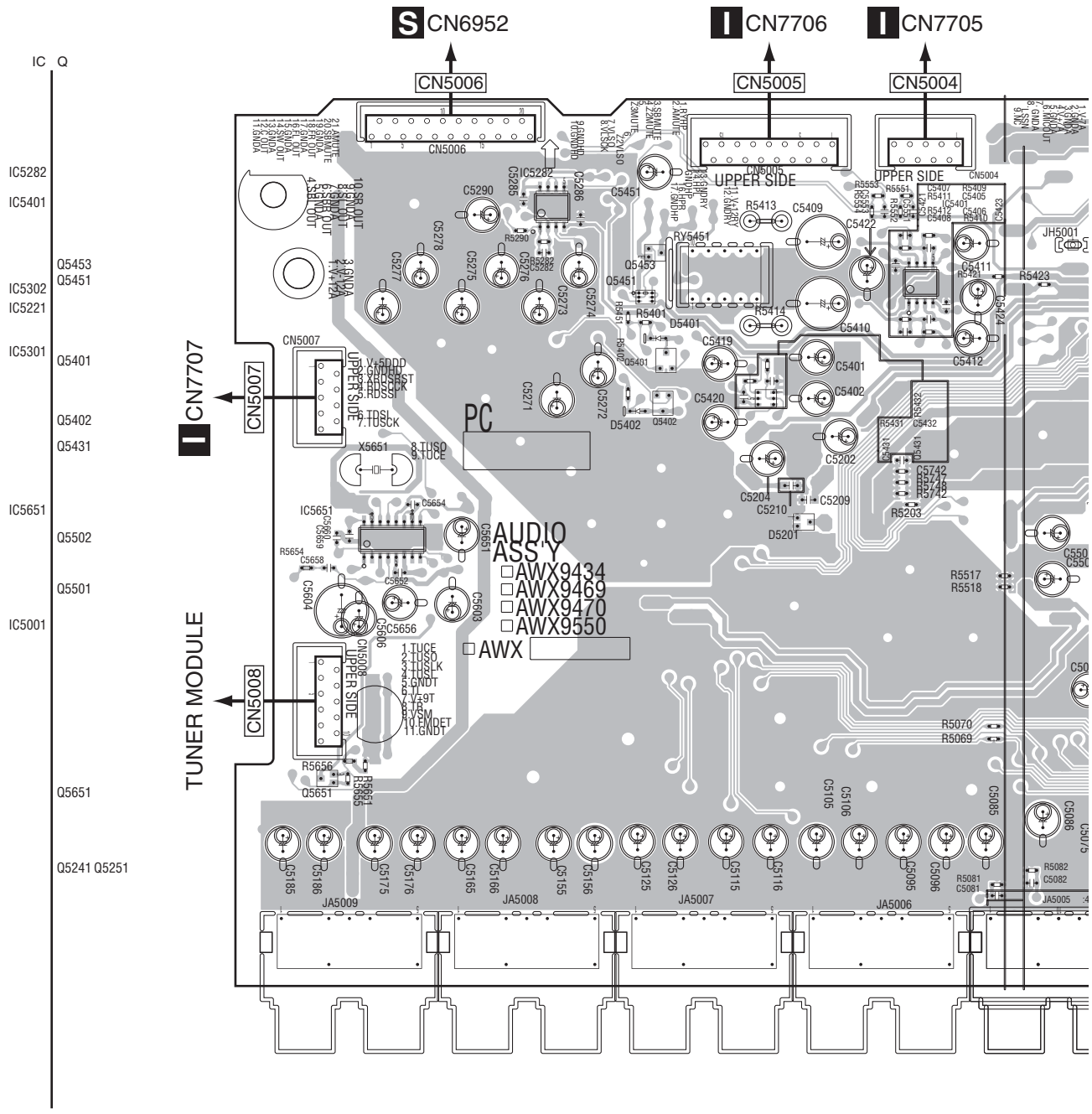
E

F

11. PCB CONNECTION DIAGRAM
11.1 AUDIO ASSY

A **SIDE A**

A AUDIO ASSY

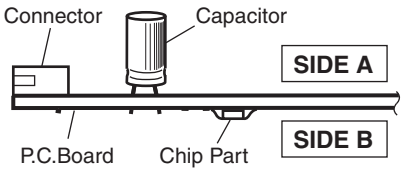


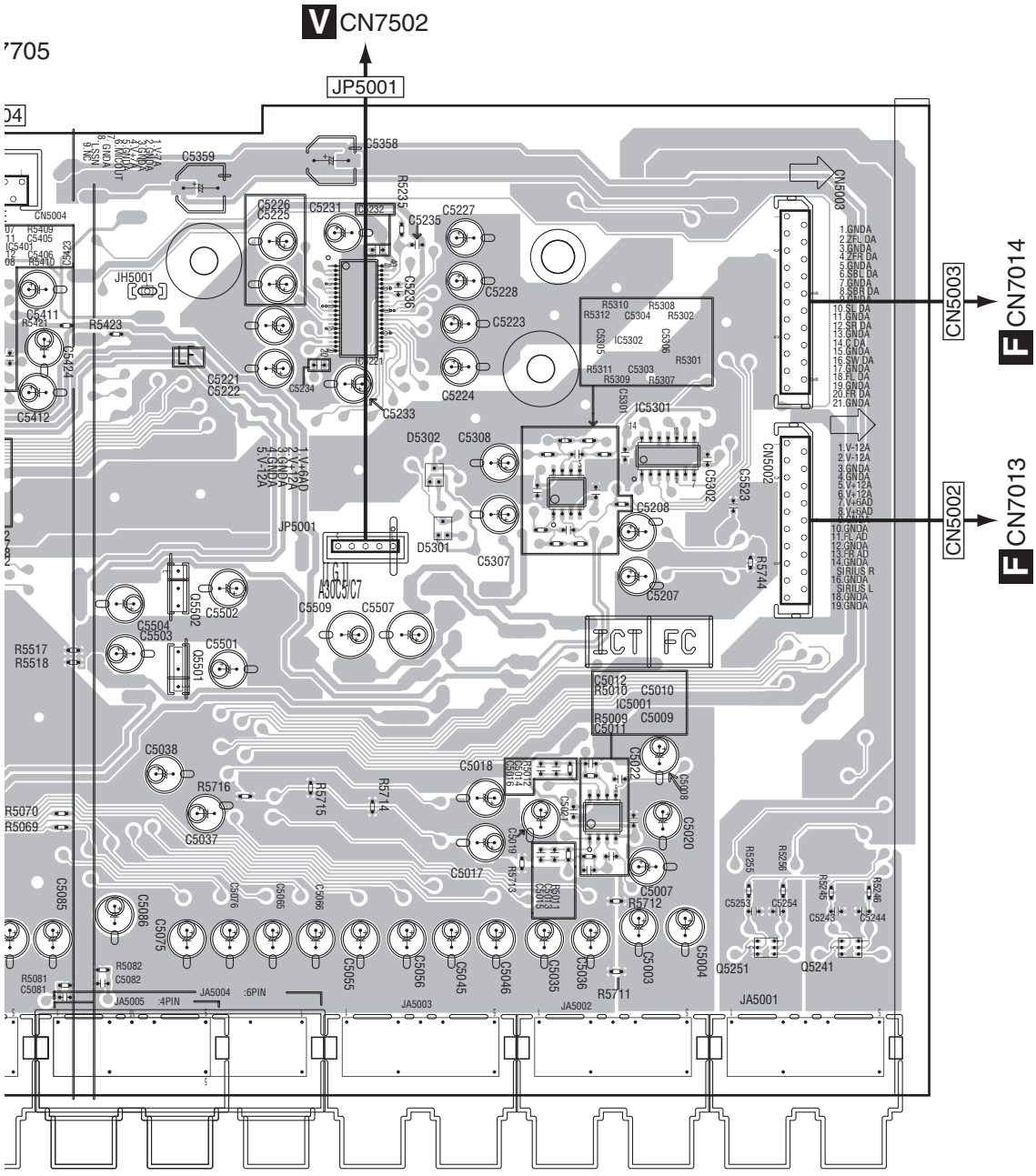
SIDE A

NOTE FOR PCB DIAGRAMS :

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

2. View point of PCB diagrams.

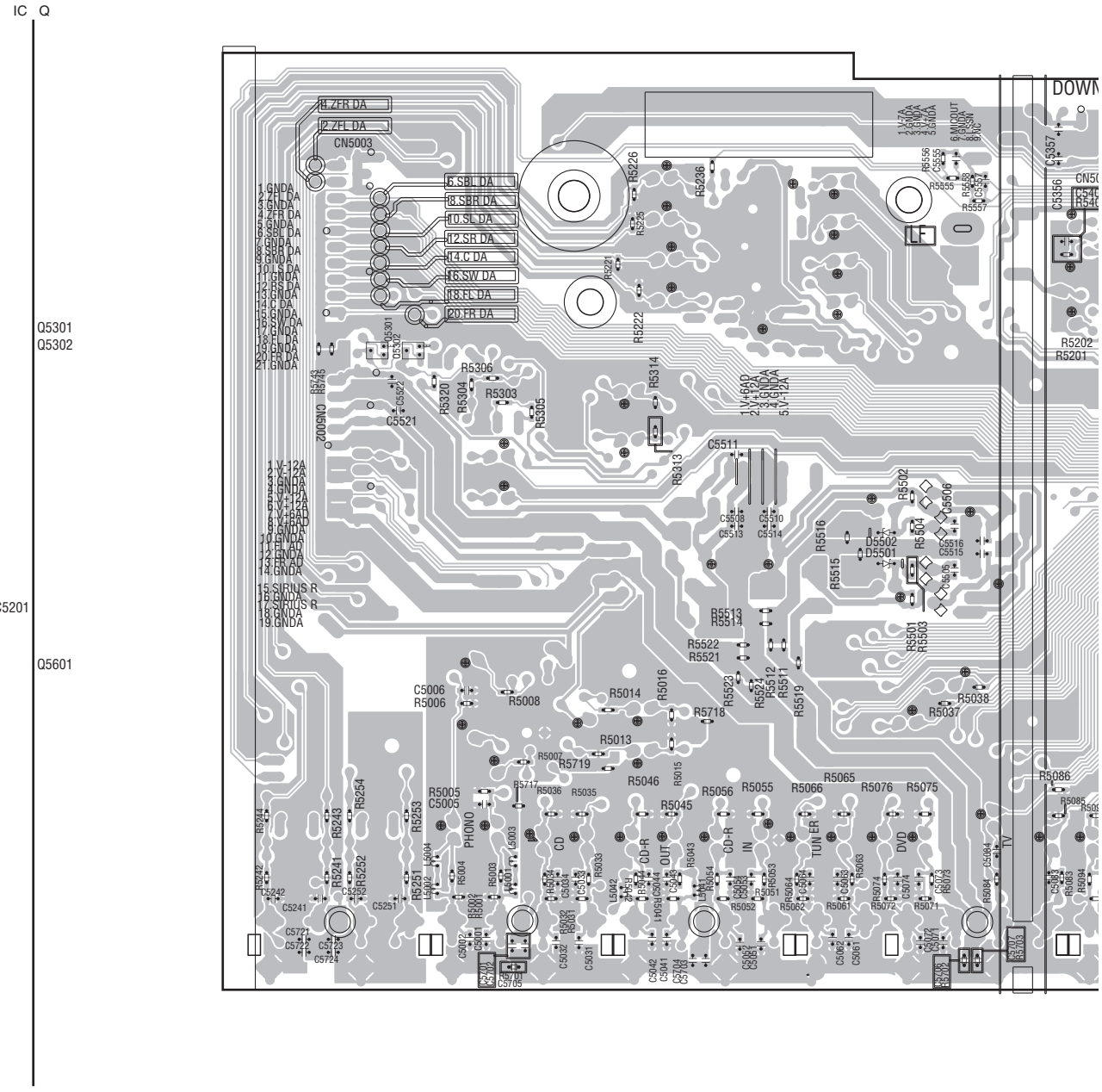




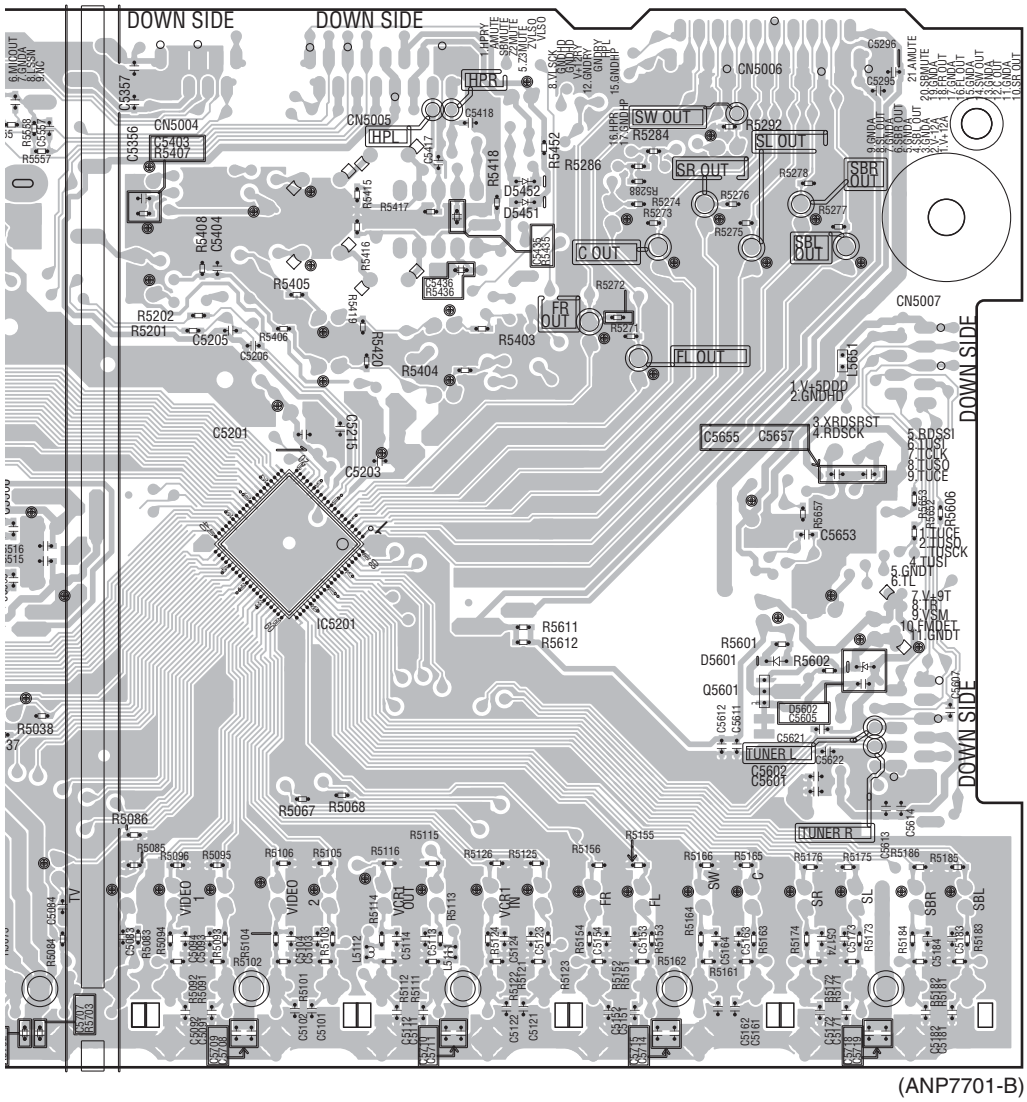
(ANP7701-B)

SIDE B

A AUDIO ASSY



SIDE B

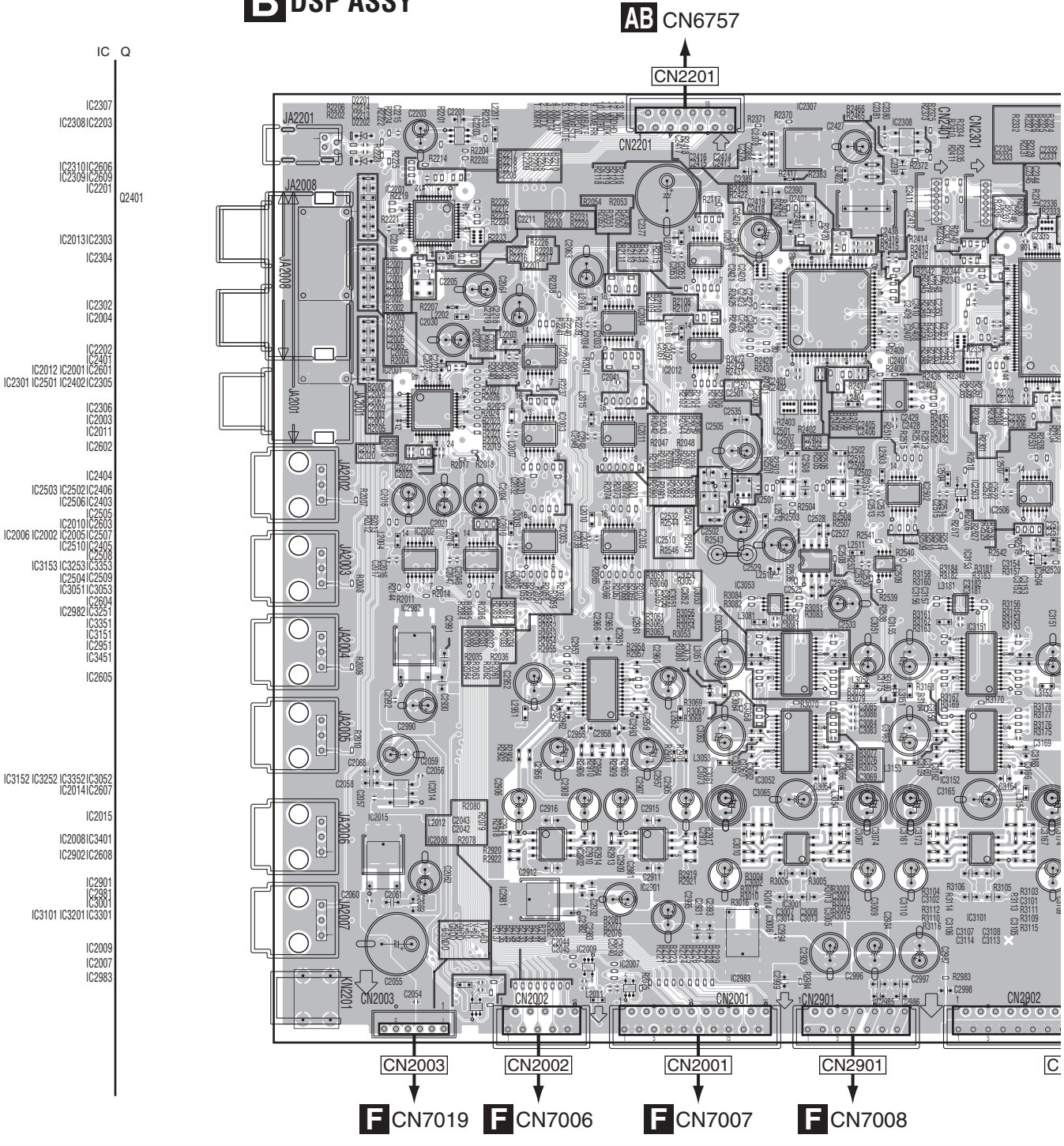


(ANP7701-B)

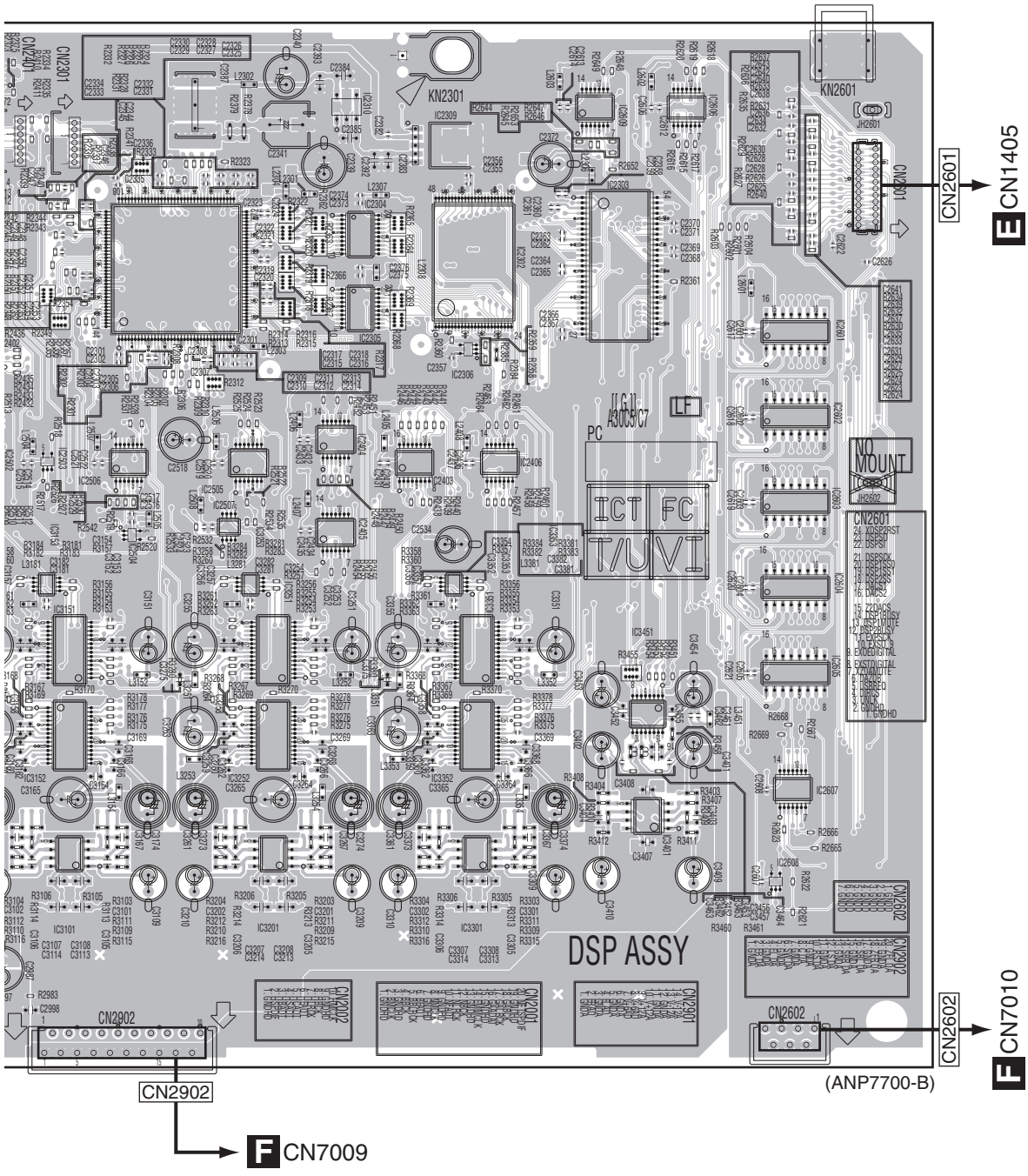
11.2 DSP ASSY

SIDE A

B DSP ASSY



SIDE A

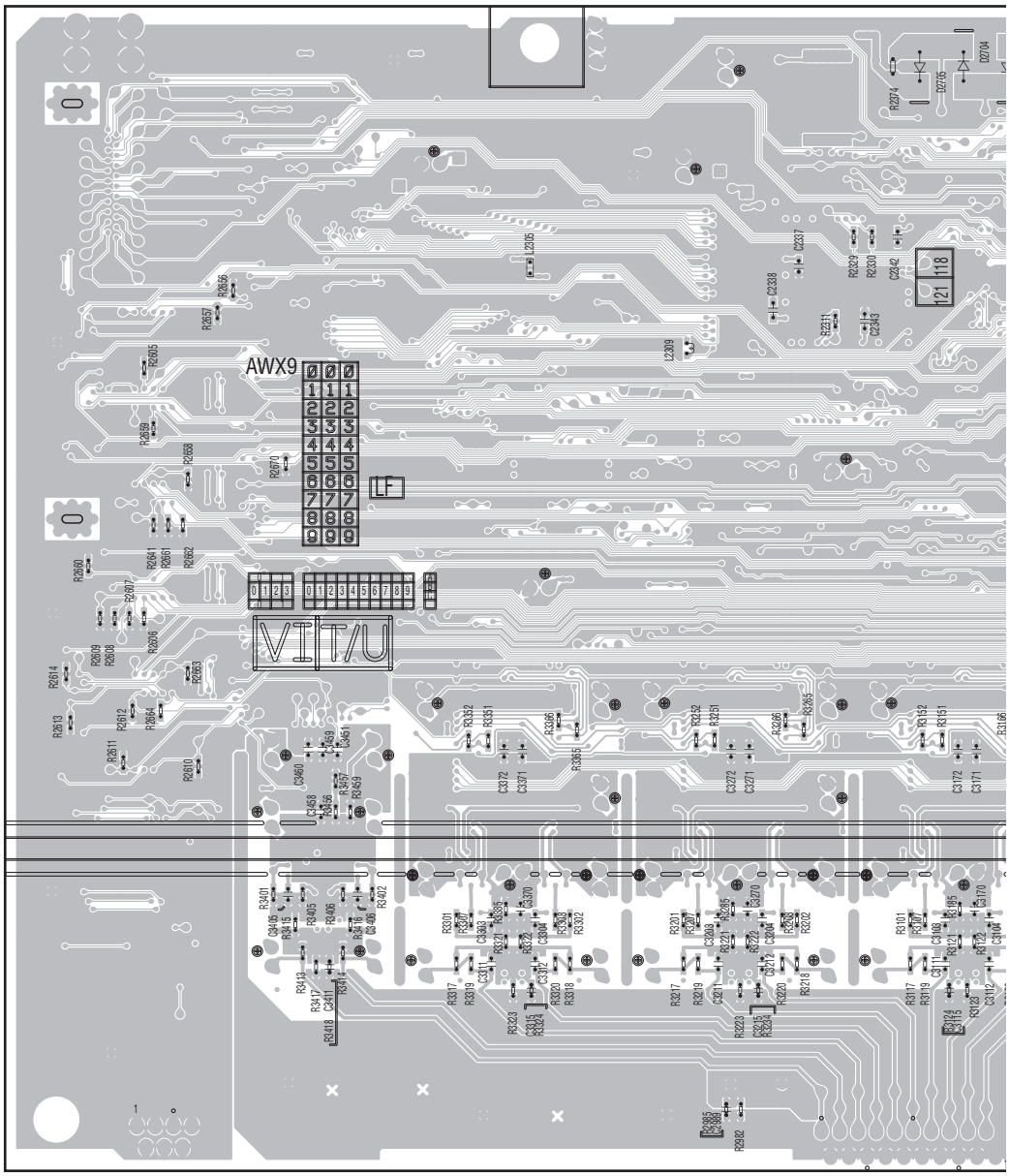

DSP ASSY
KN2301
KN2601
CN2301
CN2401
CN2601
CN2602
CN2902
CN2001
CN2002
CN2901
JH2601
JH2602
IC2309
IC2303
IC2306
IC2607
IC3152
IC3101
IC3201
IC3301
NO MOUNT
ICT FC
T/UVI
LF
PC
E CN1405
F CN7010
F CN7009
(ANP7700-B)

SIDE B

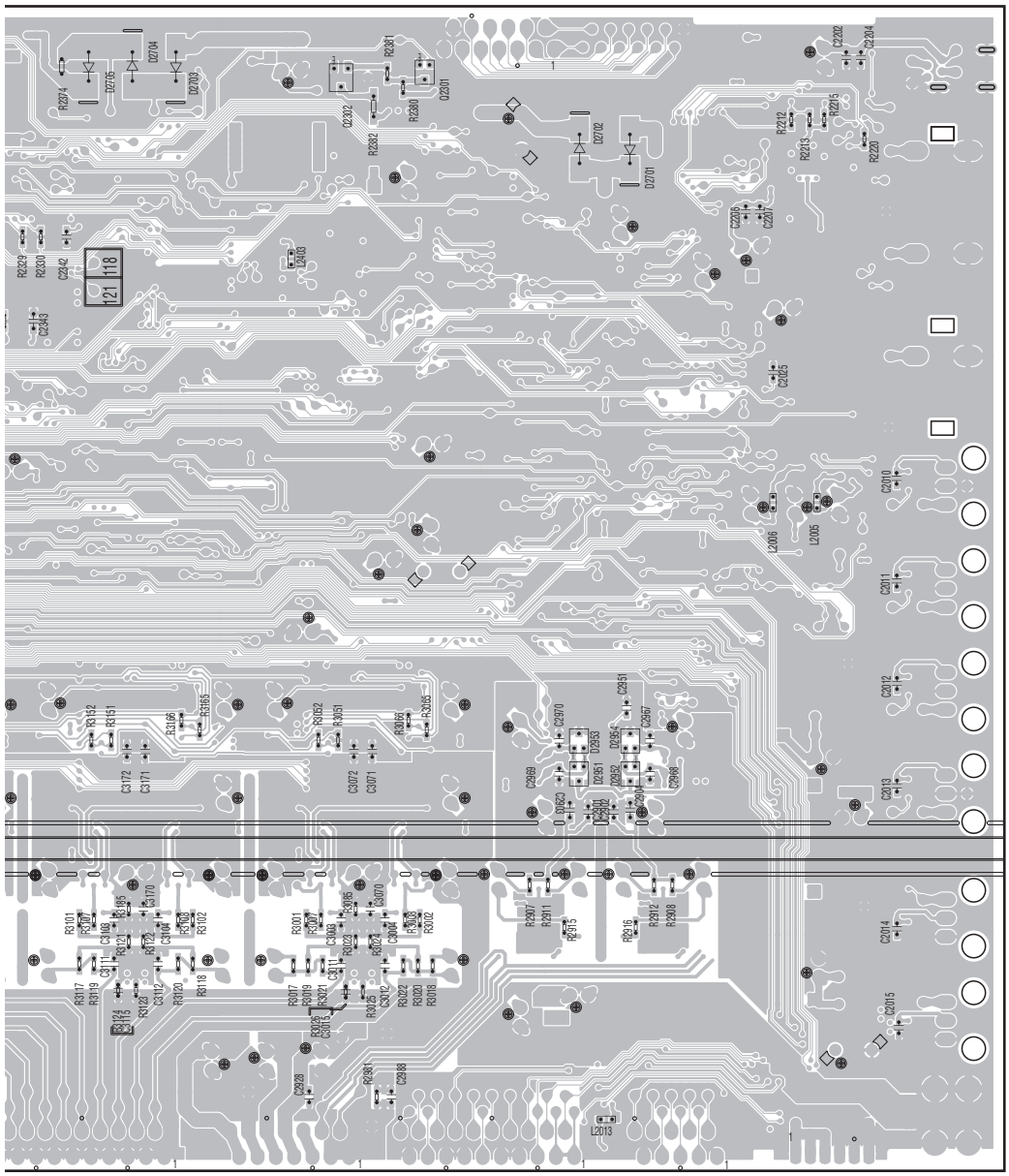
B DSP ASSY

IC Q

Q2301
Q2302



SIDE B

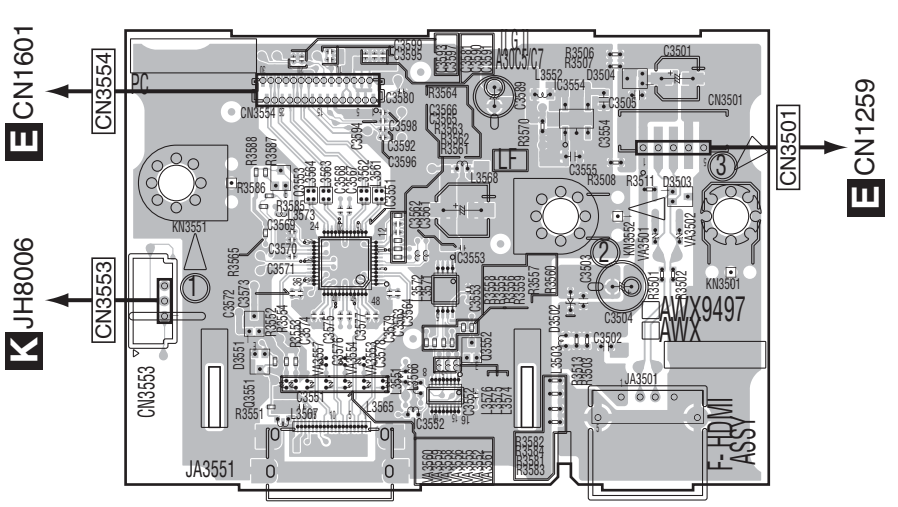


(ANP7700-B)

11.3 FRONT-HDMI AND 232C_CONTROL ASSYS

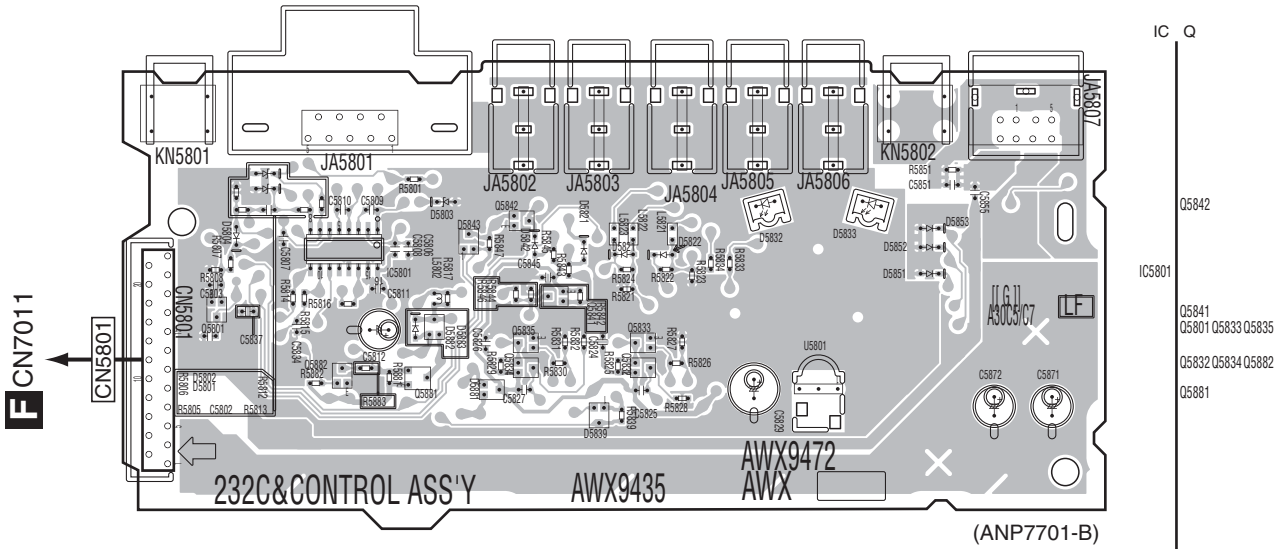
SIDE A **SIDE A**

C FRONT-HDMI ASSY



(ANP7720-B)

D 232C_CONTROL ASSY



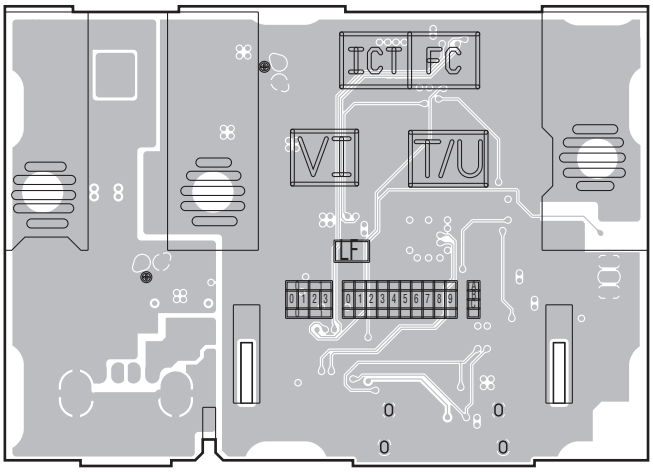
(ANP7701-B)

C D **C D**

SIDE B

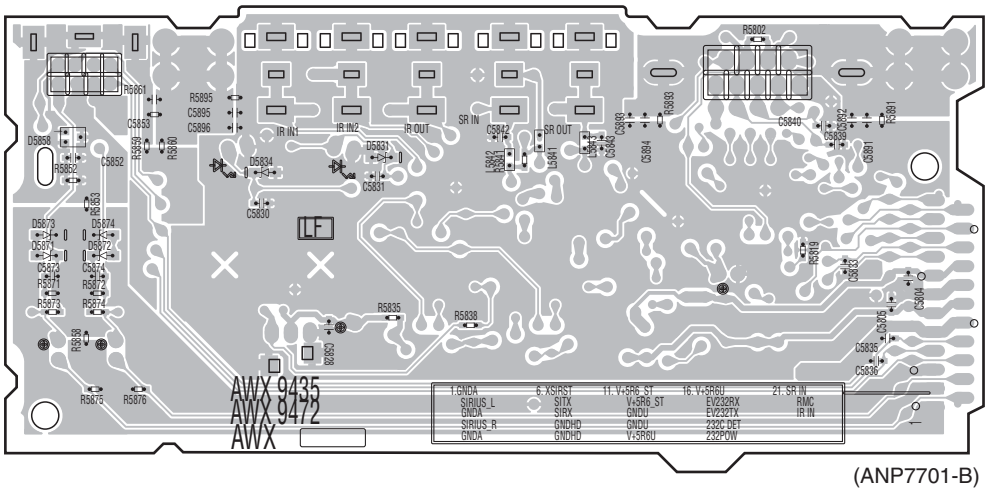
SIDE B

C FRONT-HDMI ASSY



(ANP7720-B)

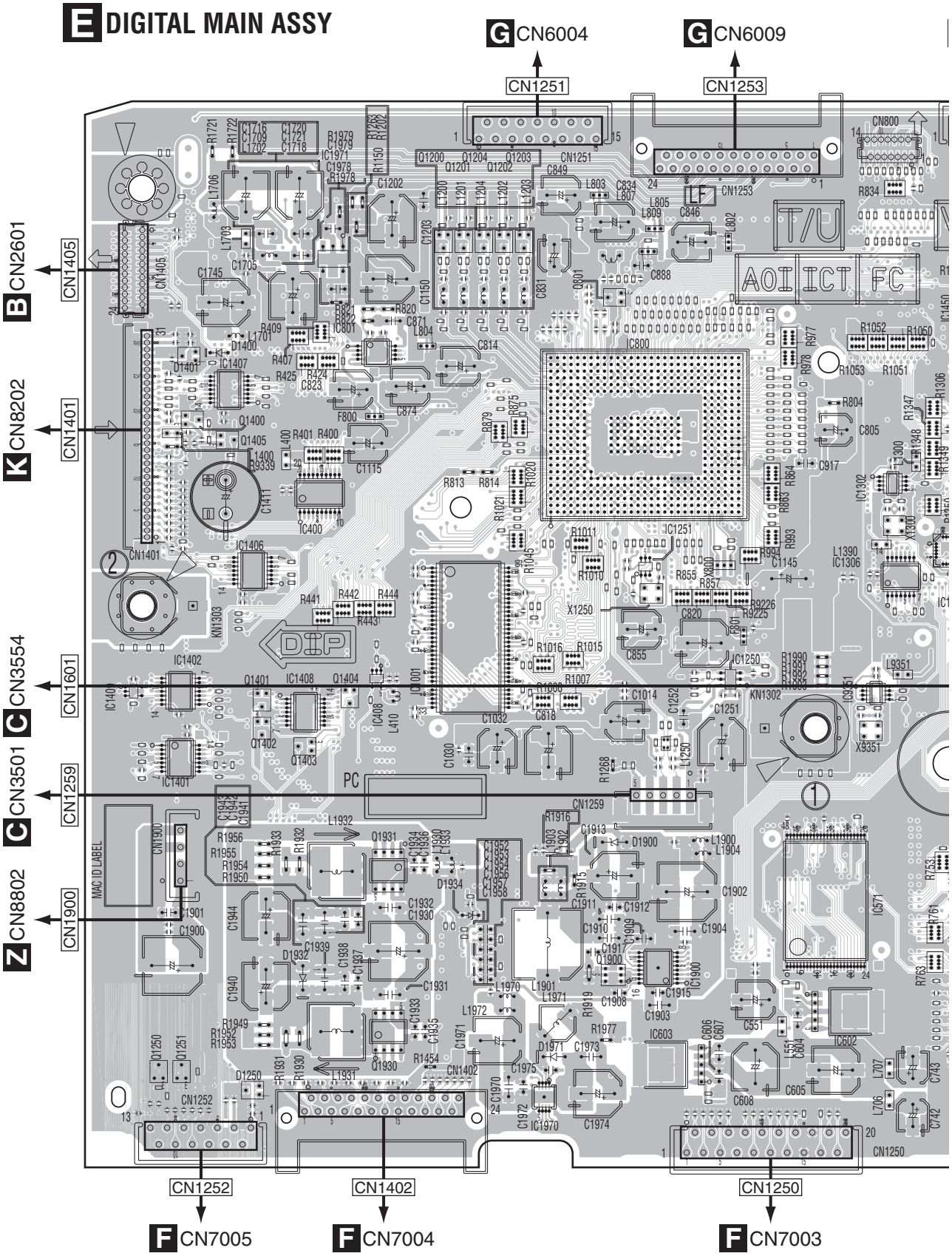
D 232C_CONTROL ASSY



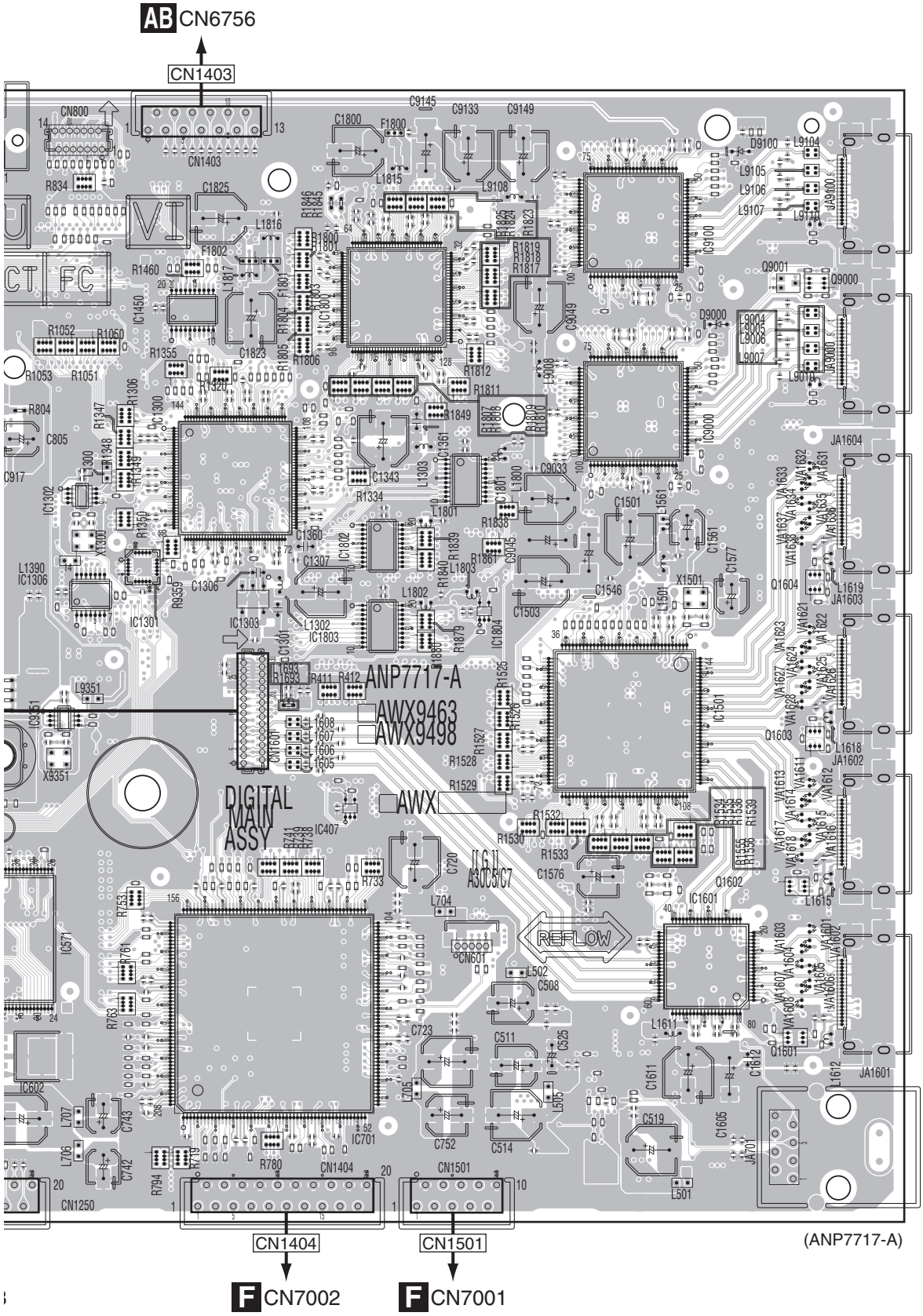
(ANP7701-B)

11.4 DIGITAL MAIN ASSY

SIDE A



SIDE A

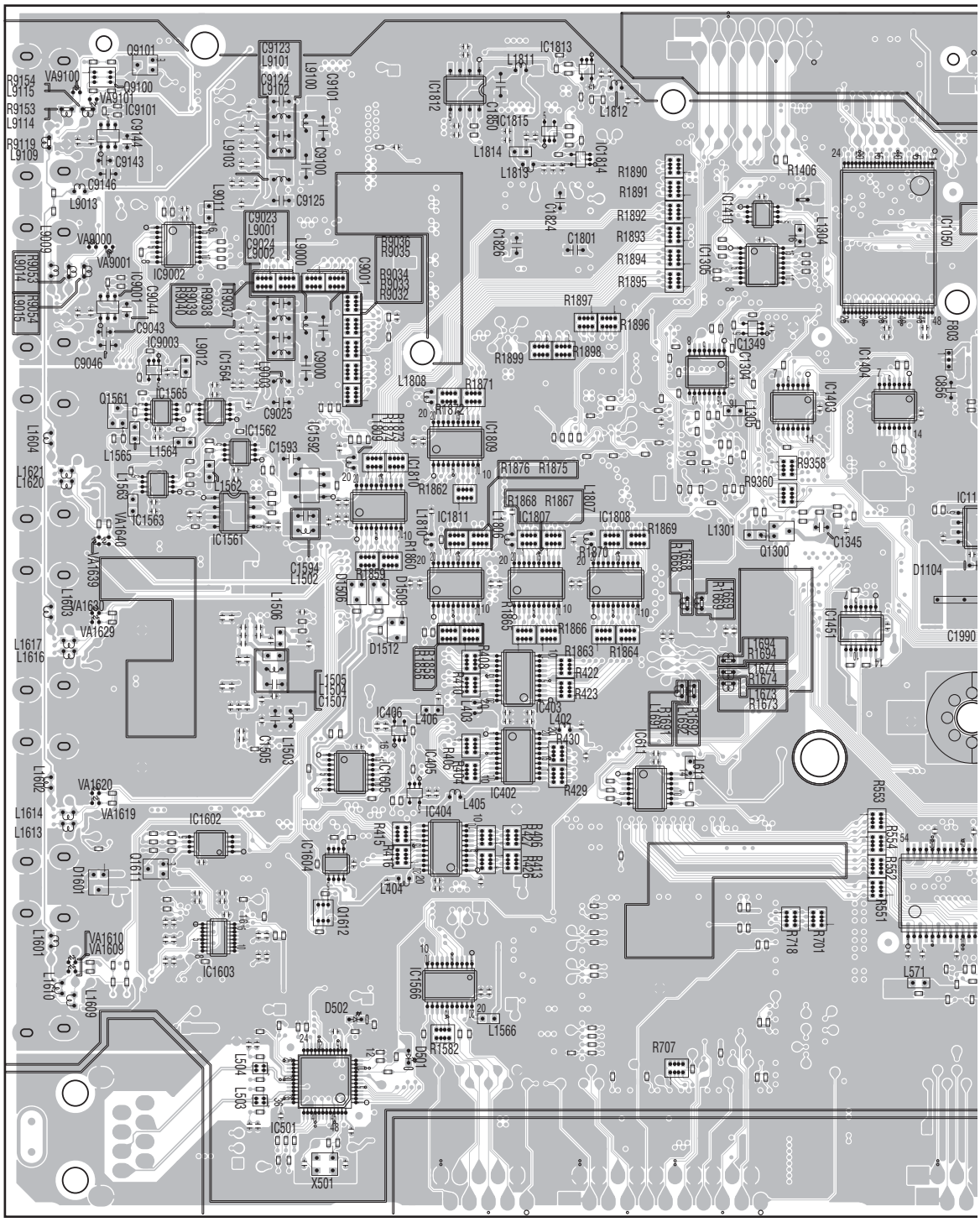


IC Q

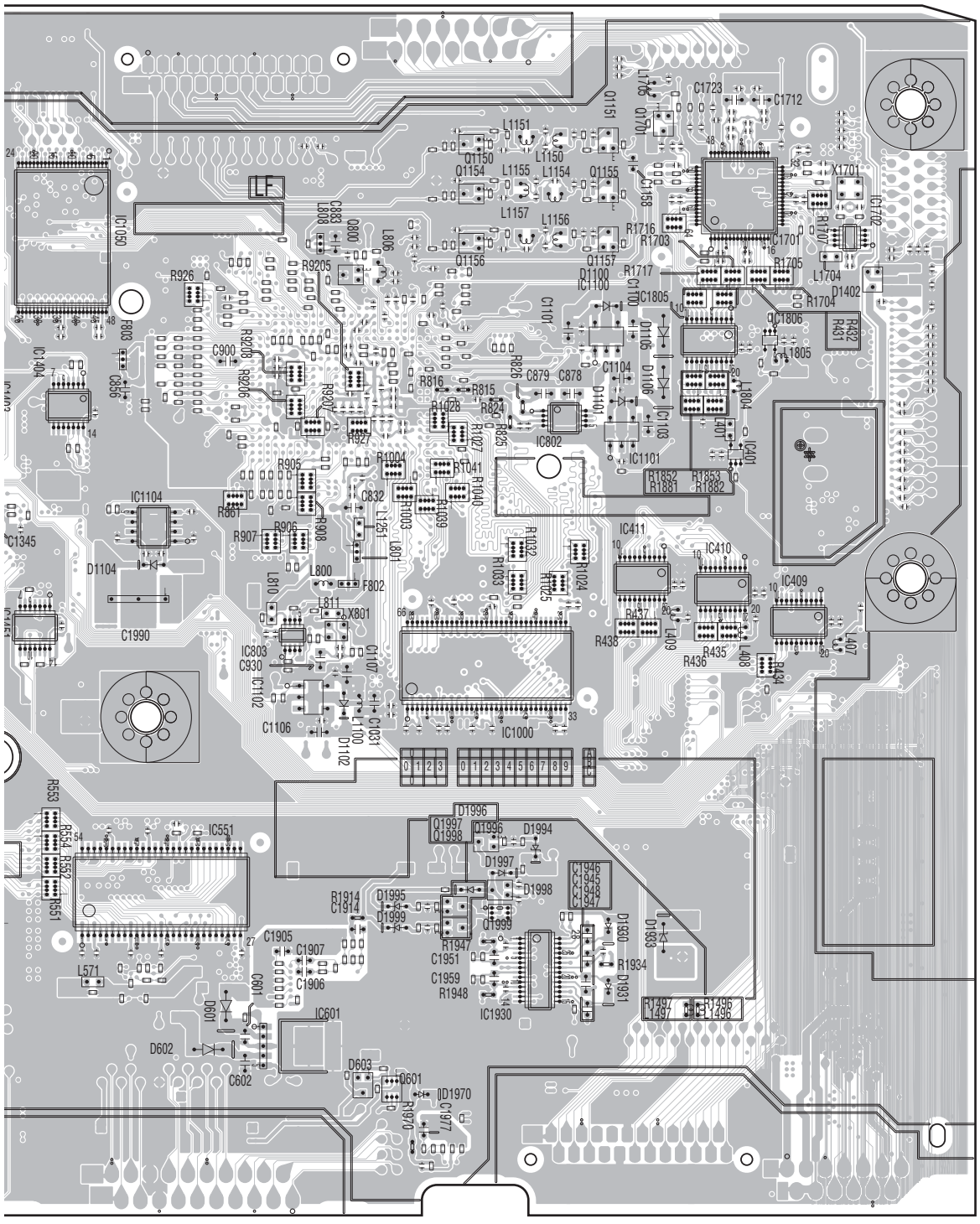
IC1971 Q1200 Q1203 Q1204 Q1201 Q1202
IC9100
Q9001 Q801 Q9000
IC1450 IC1800
IC801
IC800
IC1407
IC1300
IC9000 Q1400
Q1405
IC1801 IC1302
IC1802 IC400 IC1251
IC1406
IC1306 Q1604
IC1303 IC1301 IC1803 IC1804
IC1250 IC1402
IC1001 IC1501 IC1408 Q1401 Q1404 IC9351 IC1409 Q1603 IC408
Q1402 Q1403
IC1401 IC407
Q1931 Q1602
IC1601
IC571
Q1900
IC1900
Q1601
IC603 IC602 Q1250 Q1251 Q1930
IC701
IC1970

SIDE B

E DIGITAL MAIN ASSY



SIDE B



(ANP7717-A)

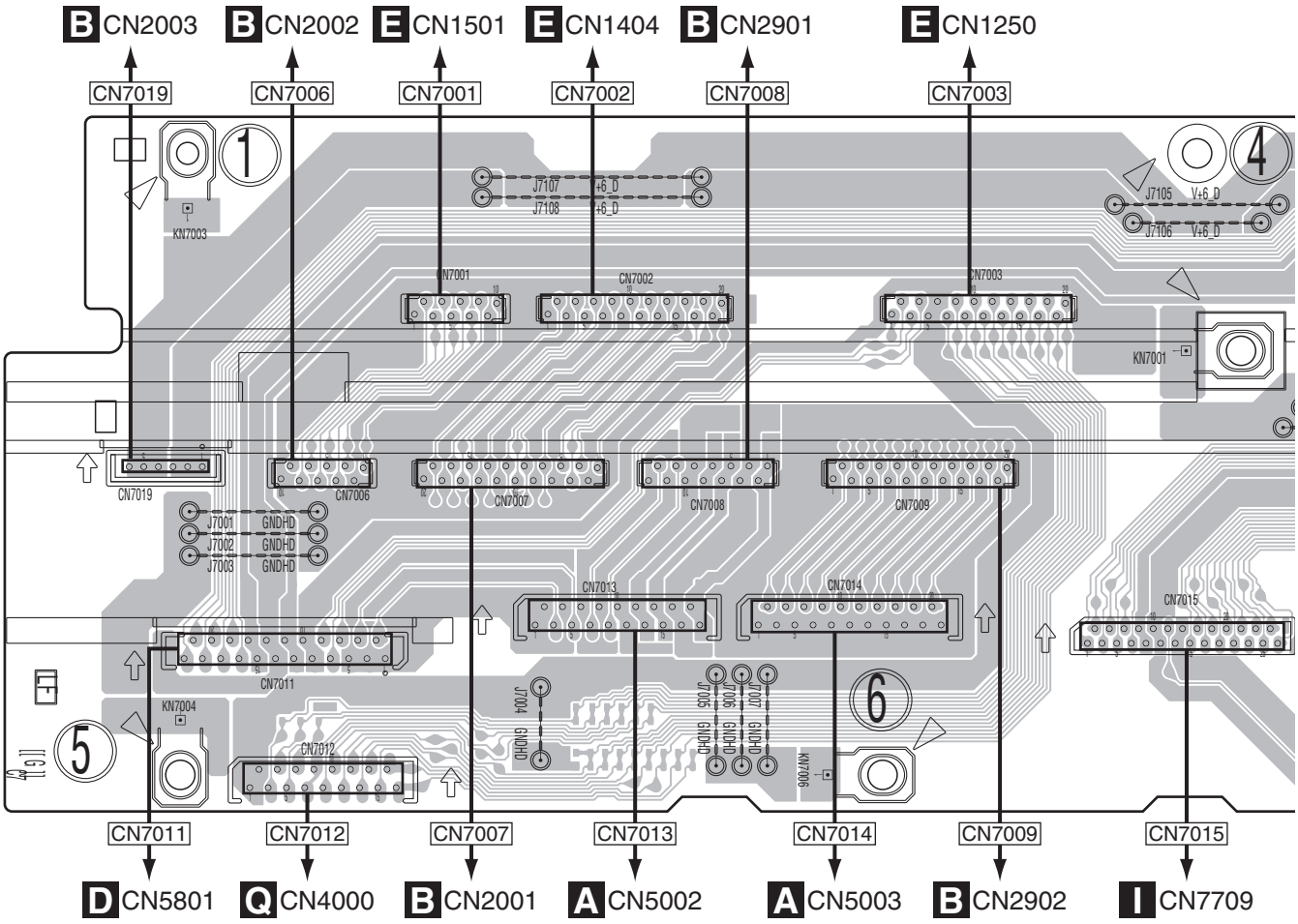
IC Q

IC1813 Q9101
IC1812 Q9100
Q1151
IC1815 Q1701
IC1814 Q1150
Q1154 Q1155
IC1410
IC1050 Q800
Q1156 Q1157
IC1805
IC1806
Q1561
IC1809
IC1810
IC1808 IC1807 IC1811
Q1300
IC1451
IC611
IC1605
Q1997
Q1996
Q1998
IC1604 Q1611
Q1612
Q1999
IC1603
Q601
IC501

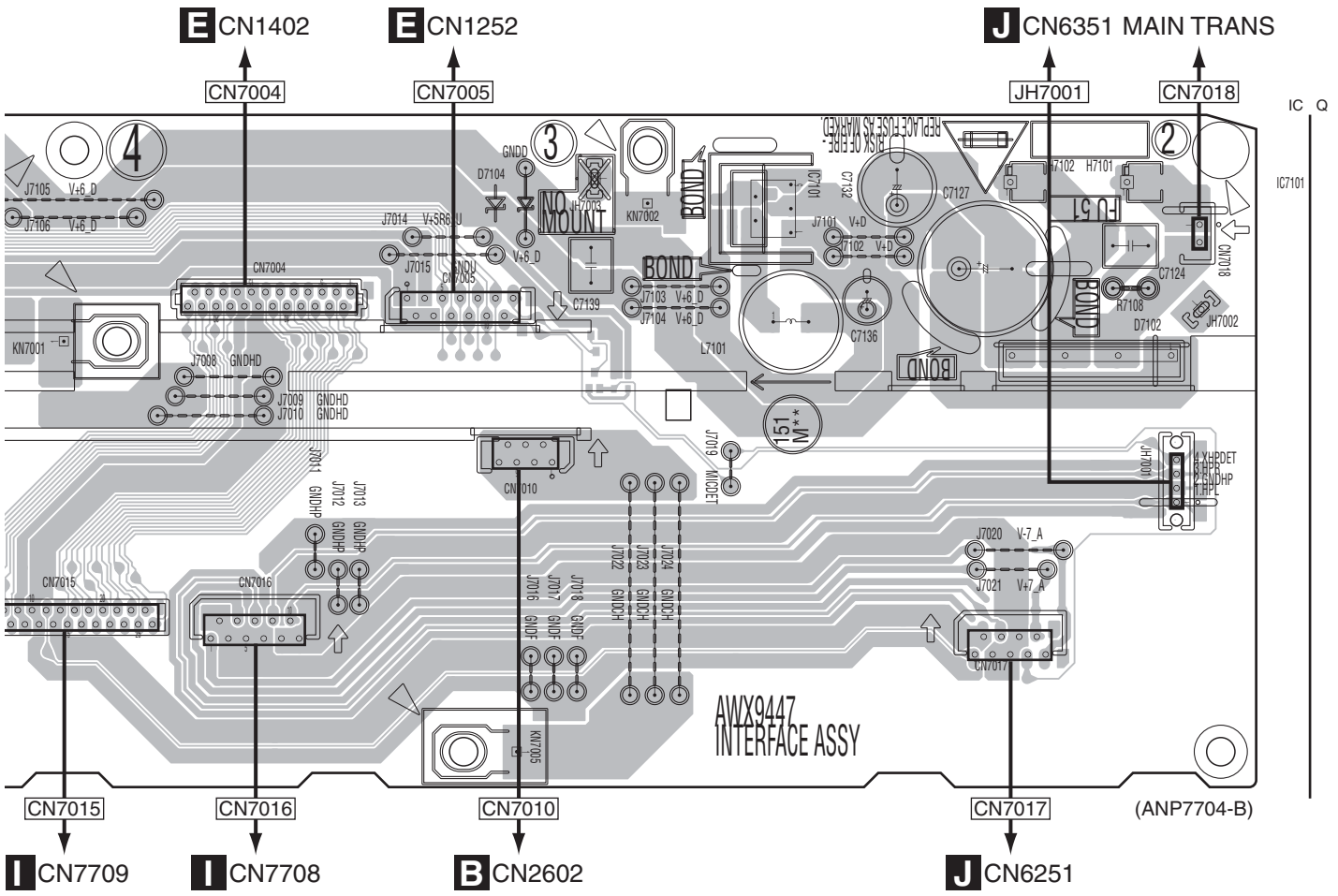
11.5 INTERFACE ASSY

SIDE A

F INTERFACE ASSY

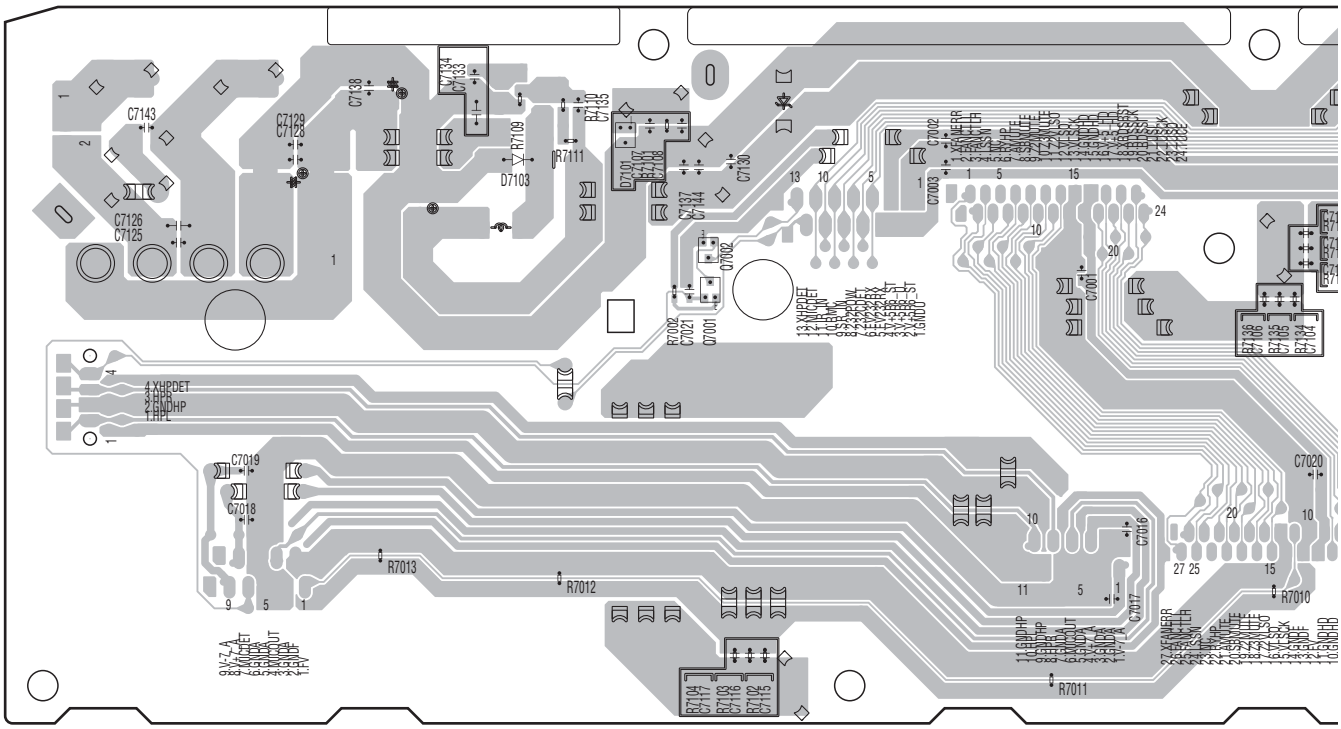


SIDE A

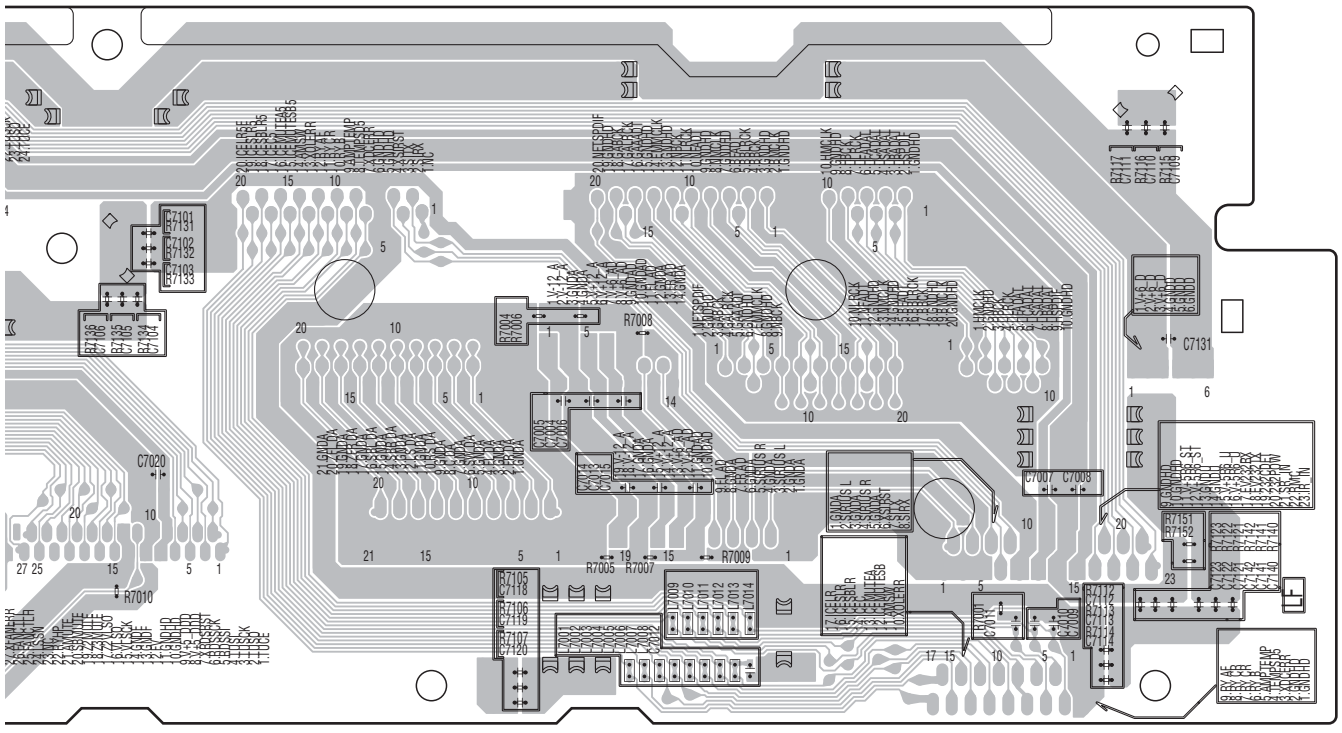

E CN1402
E CN1252
J CN6351 MAIN TRANS
CN7004
CN7005
JH7001
CN7018
IC Q
IC7101
J7105 V+6_D
J7106 V+6_D
J7014 V+5R6_U
J7015 GNDU
V+6_D
GNDD
D7104
NO MOUNT
H7003
KN7002
BOND
C7132
C7127
H7102 H7101
FU 51
J7101 V+D
J7102 V+D
C7124
R7108
D7102
JH7002
J7103 V+6_D
J7104 V+6_D
C7139
C7136
L7101
KN7001
J7008 GNDHD
J7009 GNDHD
J7010 GNDHD
151 M**
J7019 MODET
JH7001
J7011
J7012 GNDHP
J7013 GNDHP
CN7010
J7020 V-7_A
J7021 V+7_A
CN7015
CN7016
J7016 GNDF
J7017 GNDF
J7018 GNDF
J7022 GNDDH
J7023 GNDDH
J7024 GNDDH
CN7017
KN7005
AWX9447
INTERFACE ASSY
(ANP7704-B)
CN7015
CN7016
CN7010
CN7017
I CN7709
I CN7708
B CN2602
J CN6251

SIDE B

F INTERFACE ASSY



SIDE B



(ANP7704-B)

IC Q

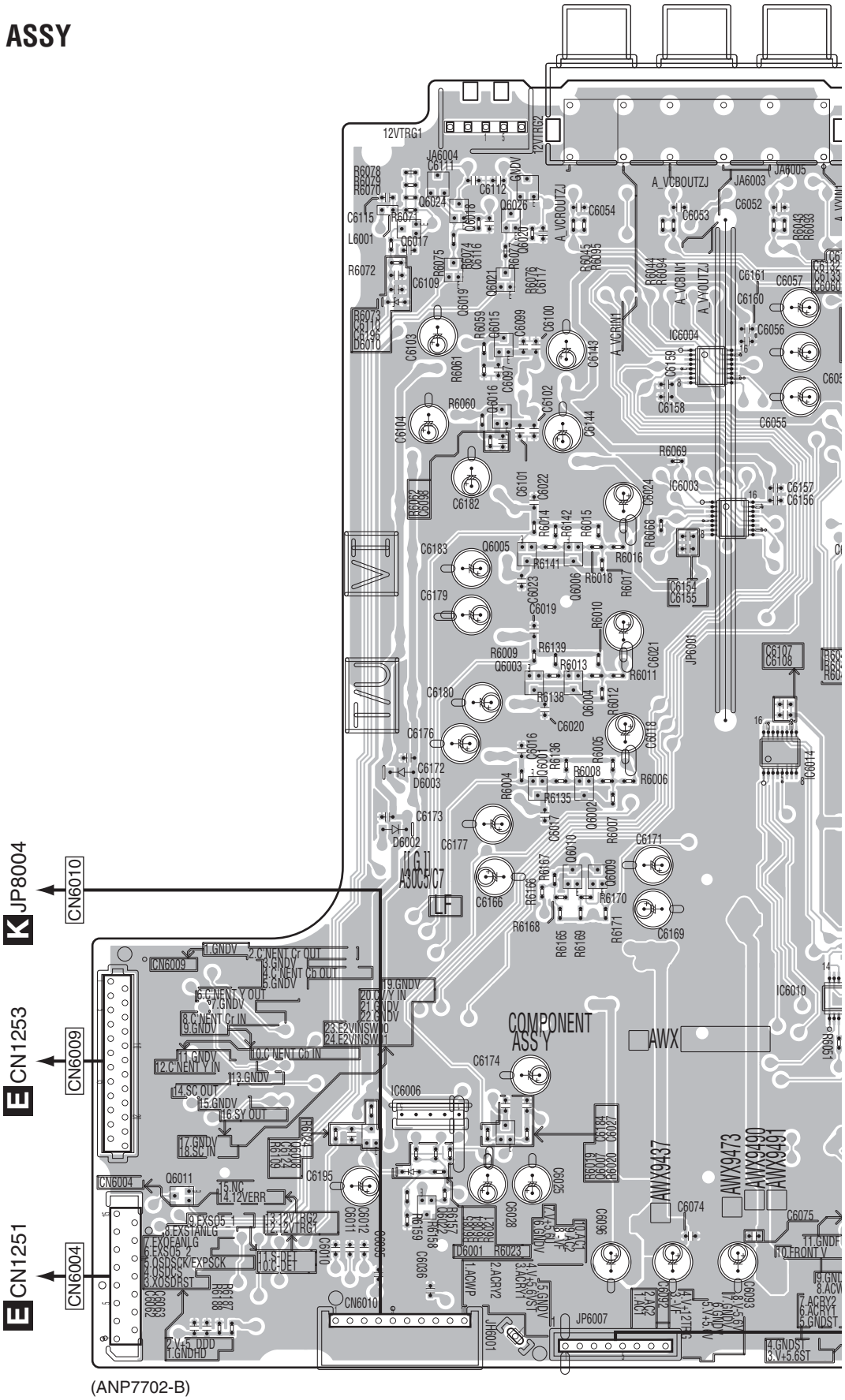
Q7002

Q7001

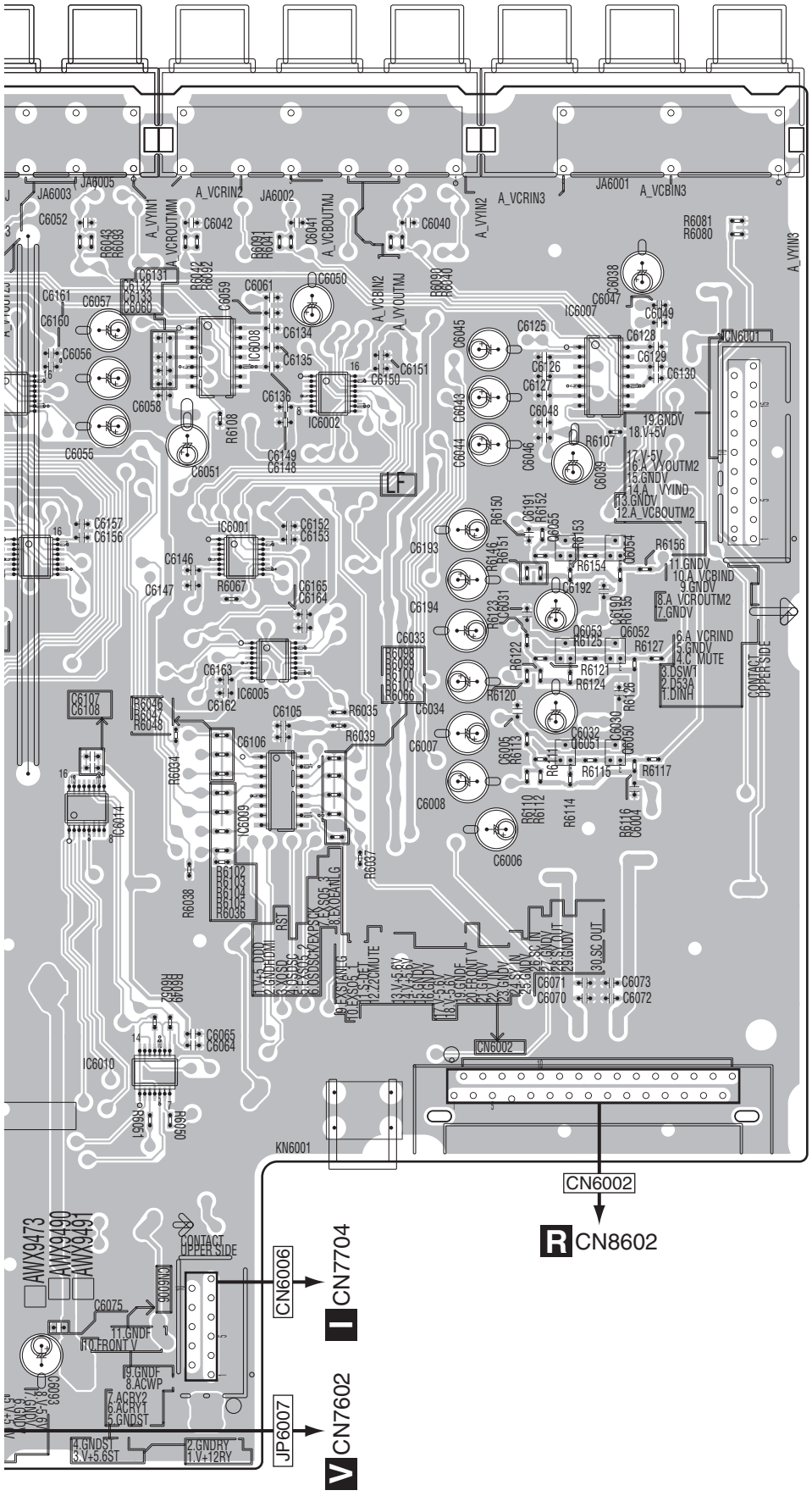
11.6 COMPONENT ASSY

SIDE A

G COMPONENT ASSY



SIDE A



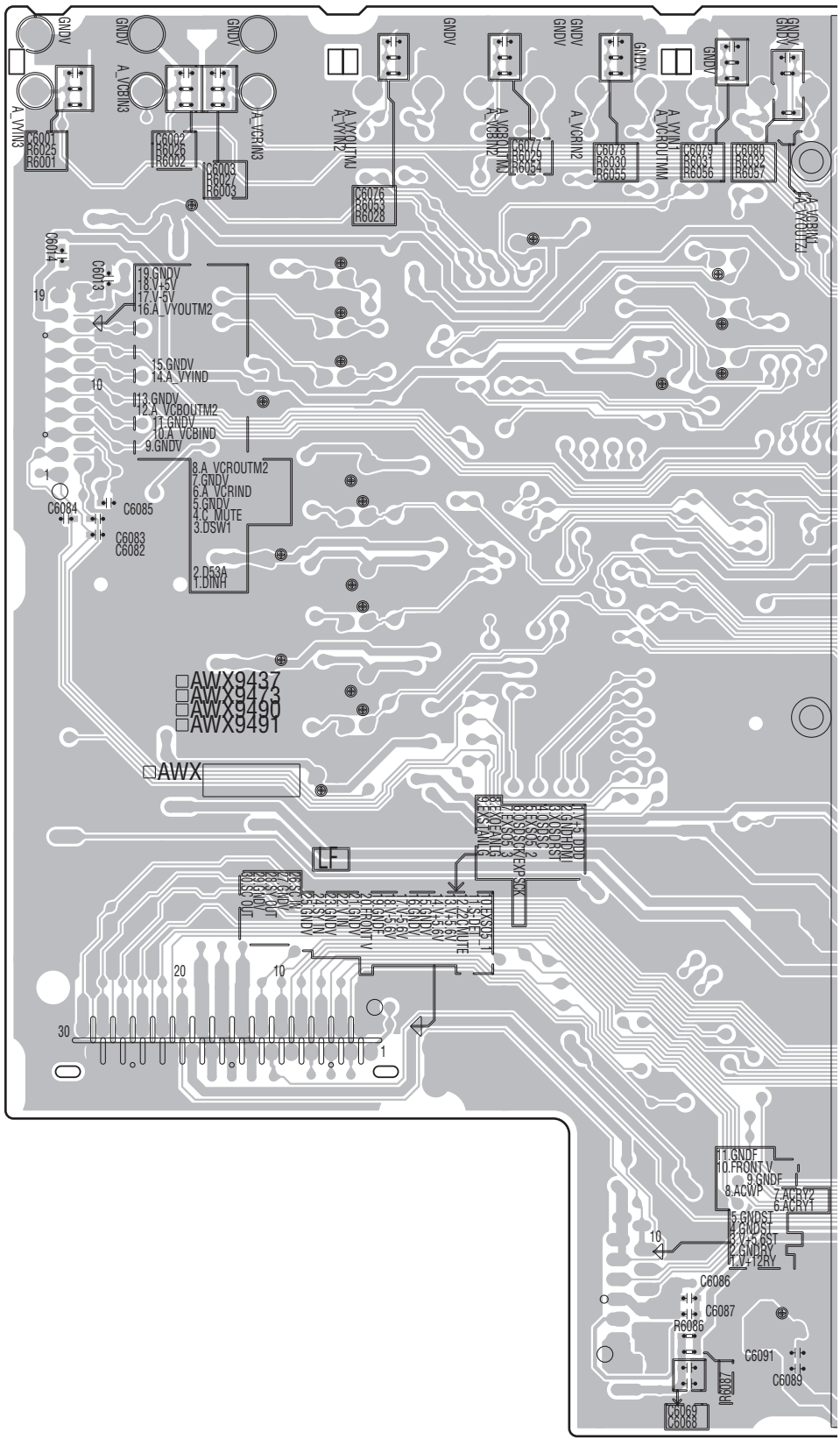
IC Q

	Q6024 Q6026
	Q6018
	Q6017 Q6020
IC6007	Q6021
	Q6019
IC6008 IC6004	Q6015
IC6002	Q6016
IC6001 IC6003	Q6055
	Q6054
	Q6005
	Q6006 Q6052 Q6053
IC6005	
	Q6003
	Q6050 Q6051 Q6004
IC6009 IC6014	Q6001
	Q6002
	Q6010
	Q6009
IC6010	
IC6006	
	Q6008 Q6007 Q6011
	Q6022

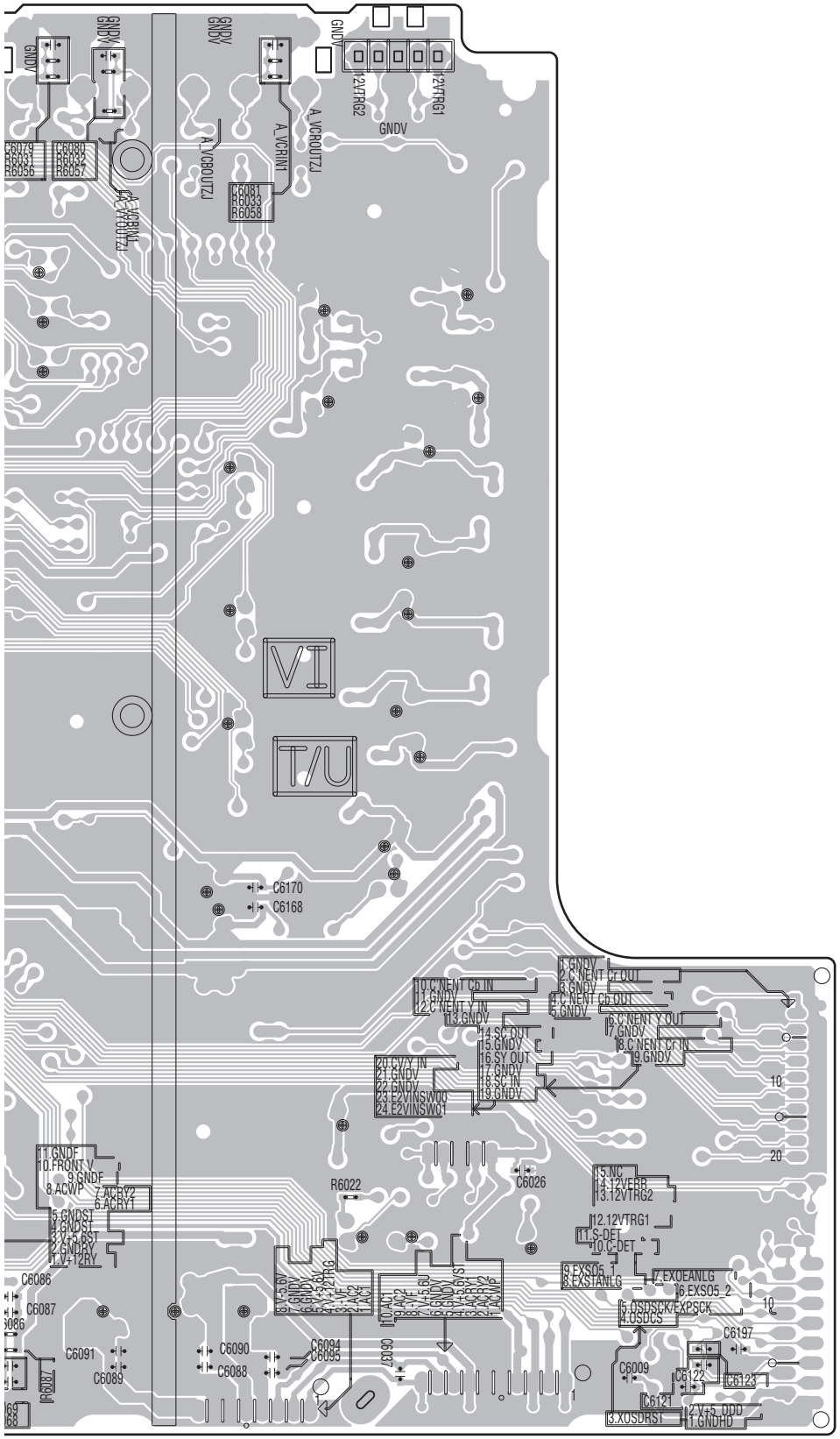
SIDE B

A

G COMPONENT ASSY



SIDE B

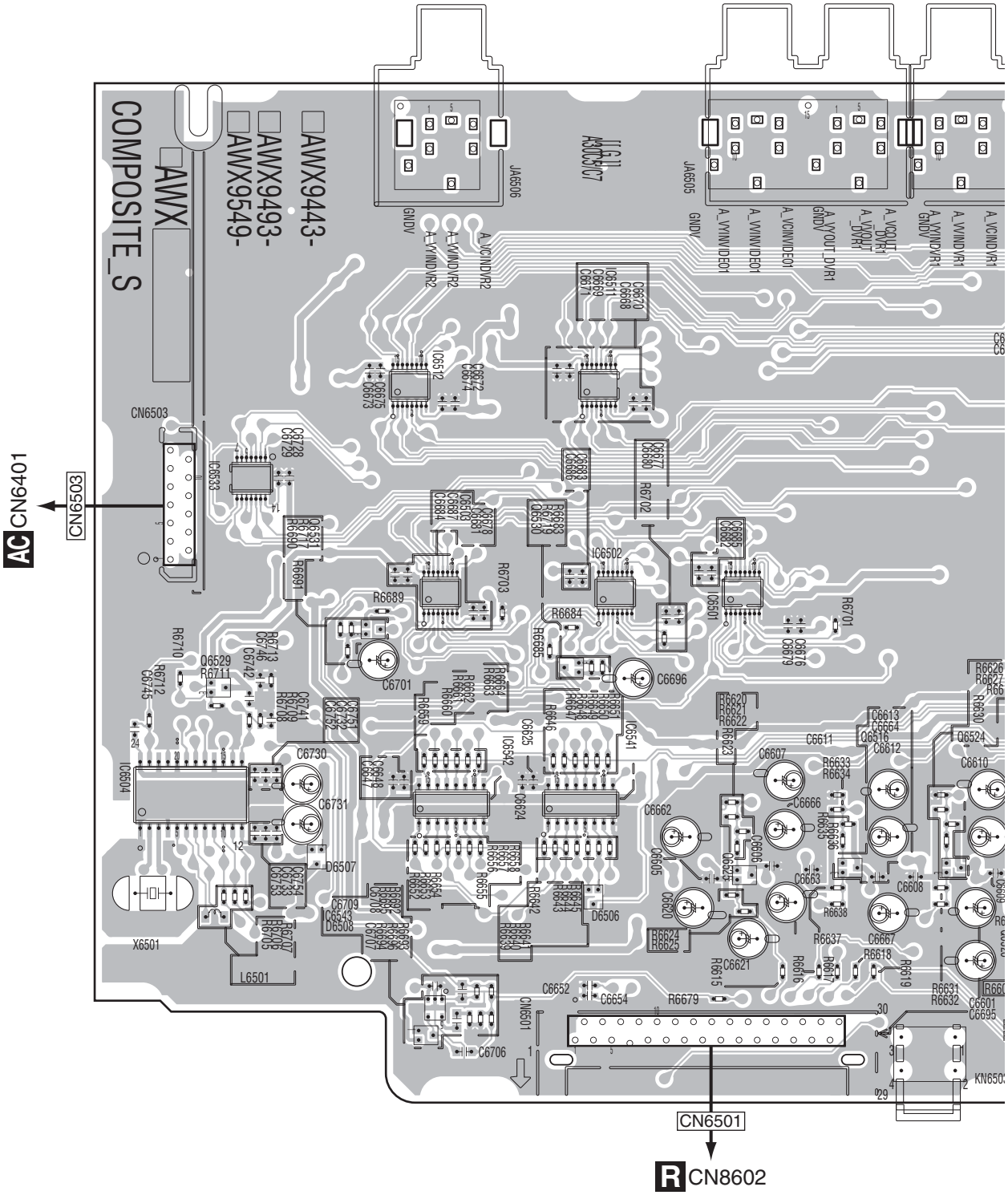


(ANP7702-B)

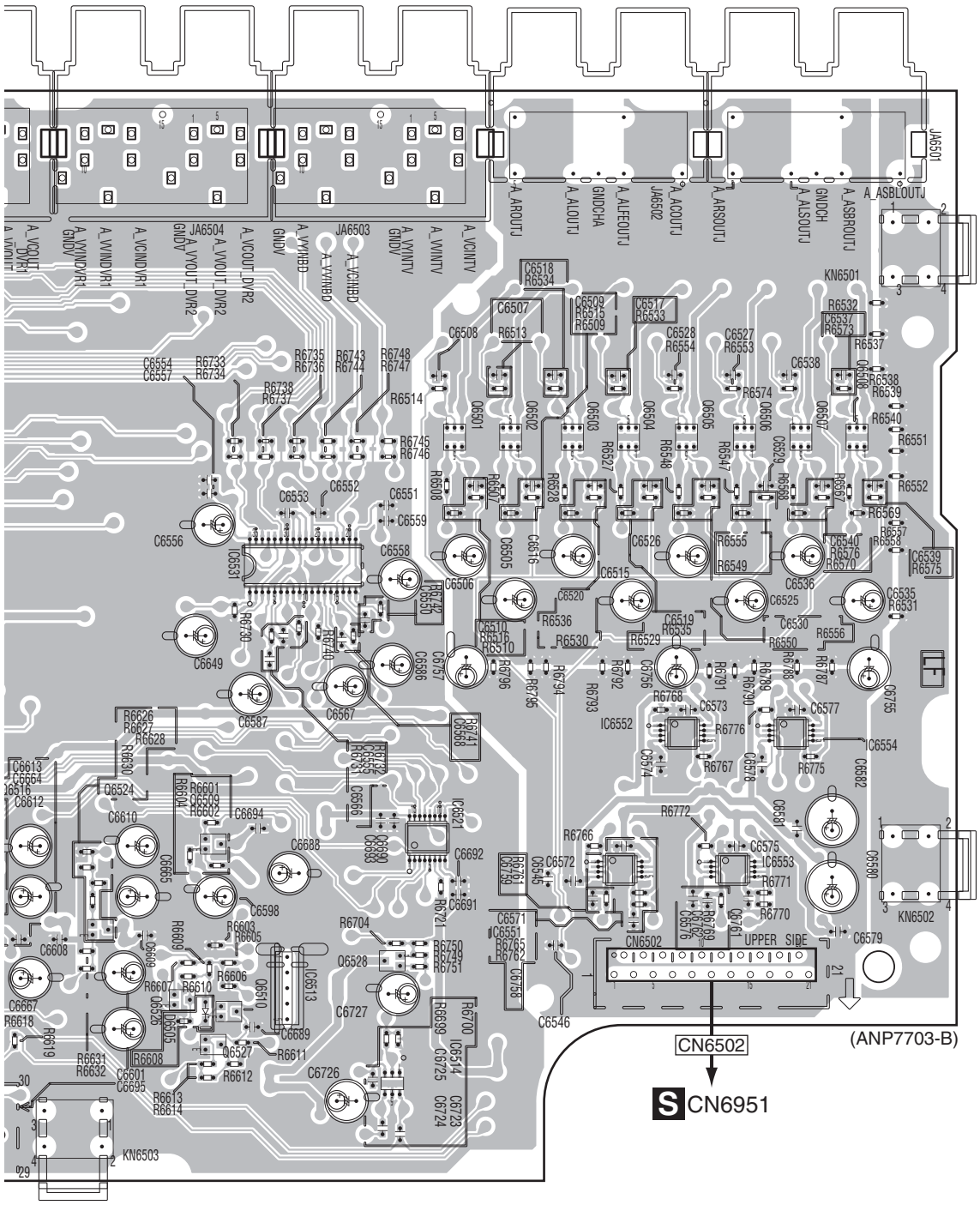
11.7 COMPOSITE_S ASSY

SIDE A

H COMPOSITE_S ASSY



SIDE A

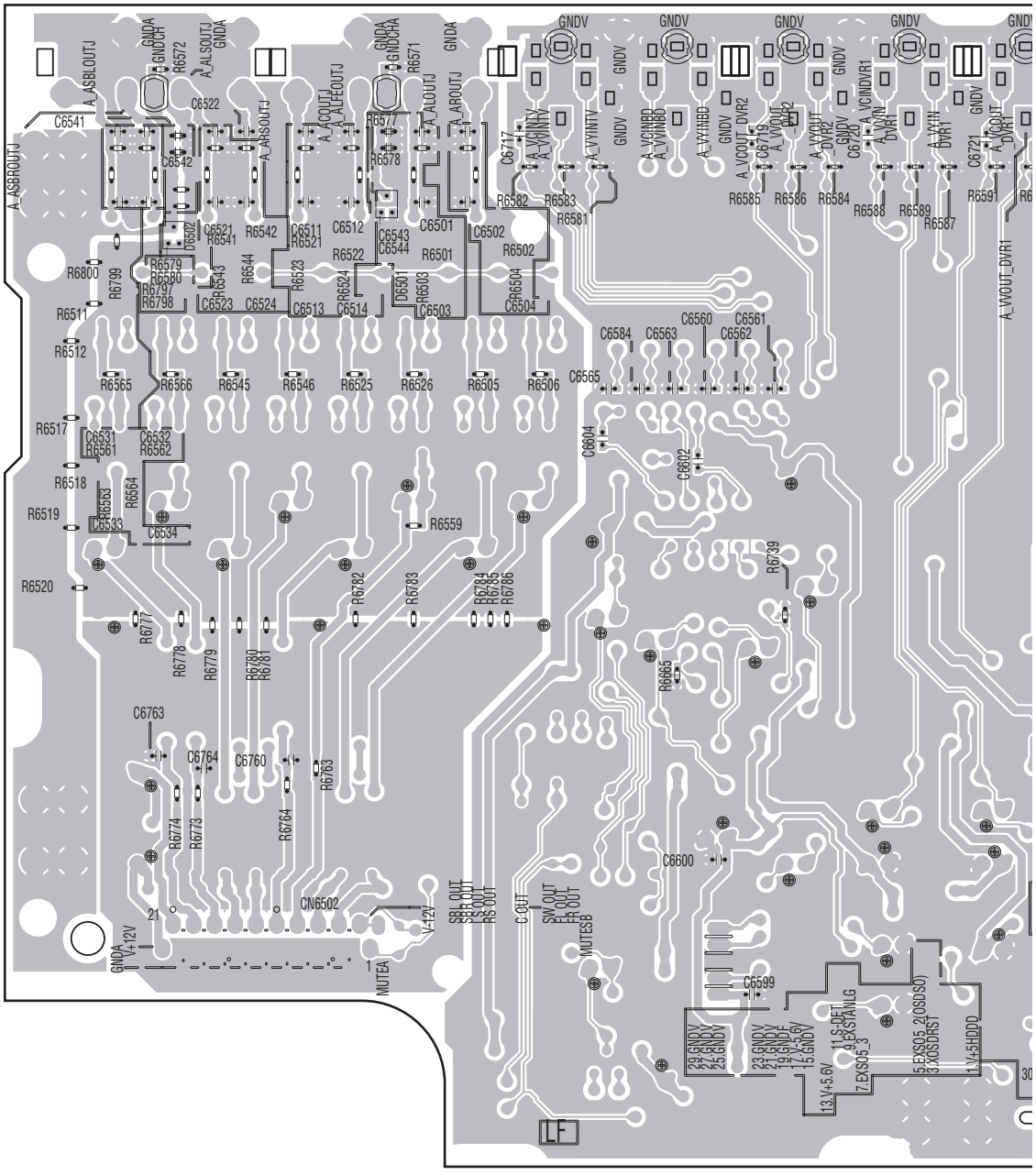


IC Q

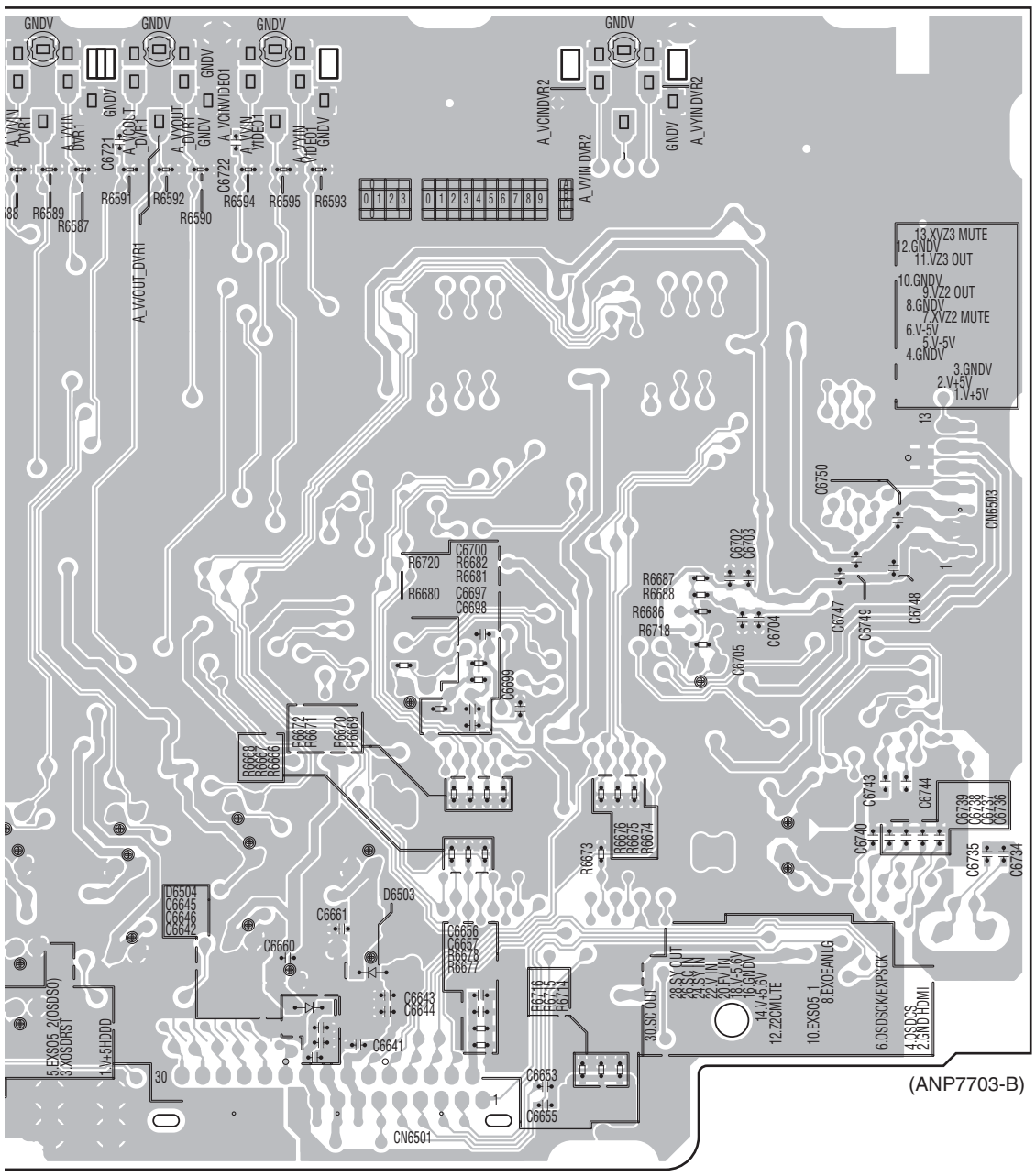
IC6511
IC6512 Q6508
Q6501 Q6502 Q6503 Q6504
Q6505 Q6506 Q6507
IC6533
IC6503
IC6531 Q6530
Q6531
IC6502
IC6501
IC6552 Q6529
IC6554
IC6541 Q6516 Q6524
IC6542 Q6509
IC6521
IC6504
IC6553
IC6551 Q6525
IC6543 Q6528
IC6513 Q6510
Q6526
IC6514 Q6527

SIDE B

H COMPOSITE_S ASSY



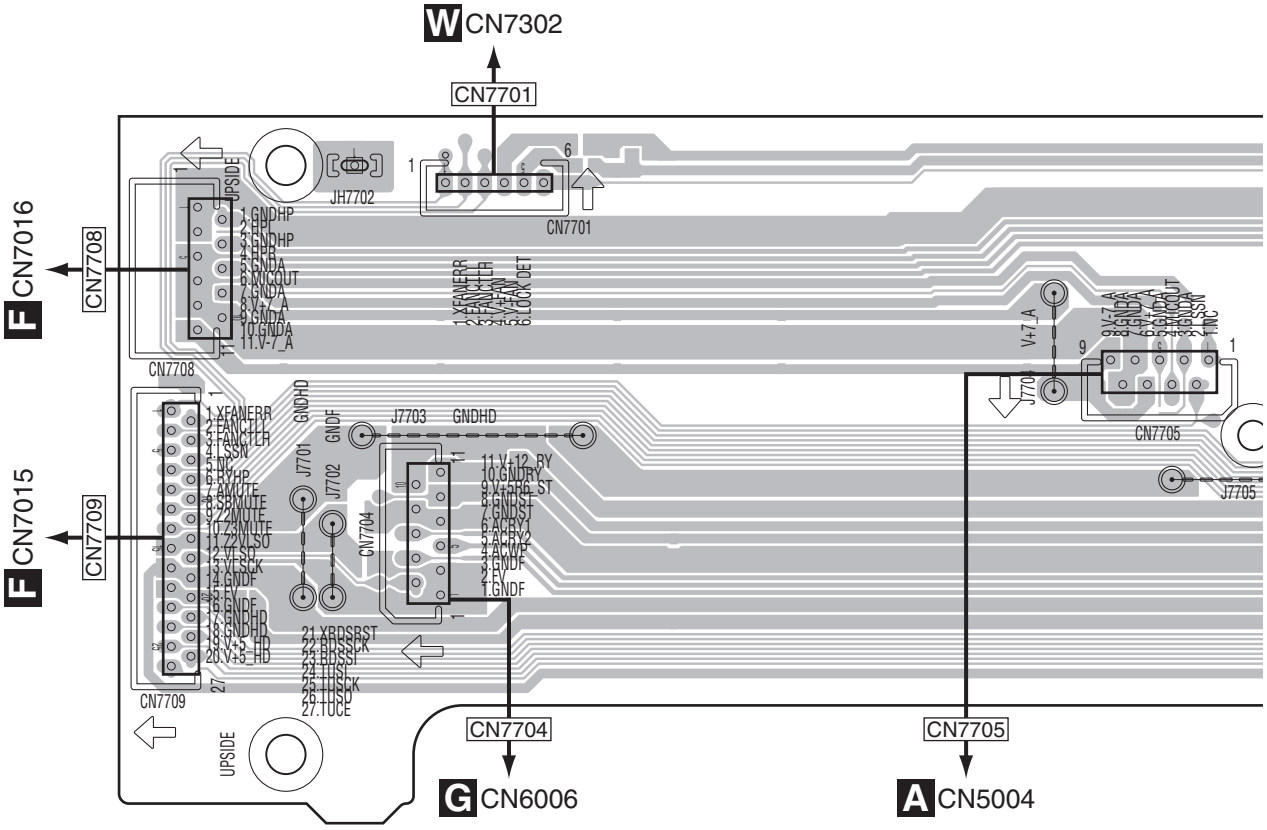
SIDE B


GNDV
A_VWOUT_DVR1
A_VCINDVR2
A_VVIN DVR2
A_VWIN DVR2
13.XVZ3 MUTE
12.GNDV
11.VZ3 OUT
10.GNDV
9.VZ2 OUT
8.GNDV
7.XVZ2 MUTE
6.V-5V
5.V-5V
4.GNDV
3.GNDV
2.V+5V
1.V+5V
CN6503
CN6501
28.SY OUT
27.SC IN
26.SY IN
25.V IN
24.FV IN
23.V-5.6V
18.GNDV
14.V-5.6V
12.ZZCMUTE
10.EXSO5_1
8.EXOEANUG
6.OSDSCK/EXPSCK
4.OSDCS
2.GND HDMI
30.SC OUT
5.EXSO5_2(OSDSO)
3.XOSDRST
1.V+5HDDD
(ANP7703-B)

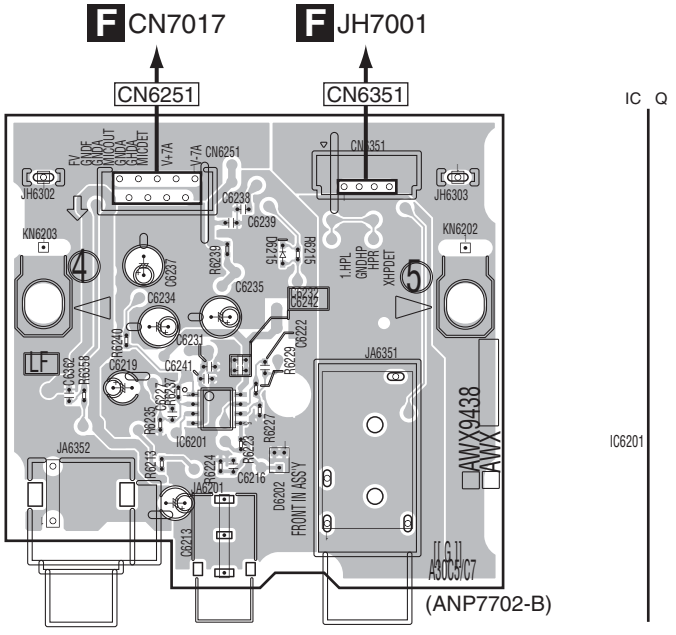
11.8 FRONT BRIDGE, MIC HP, VOL AND POWER SW ASSYS

SIDE A

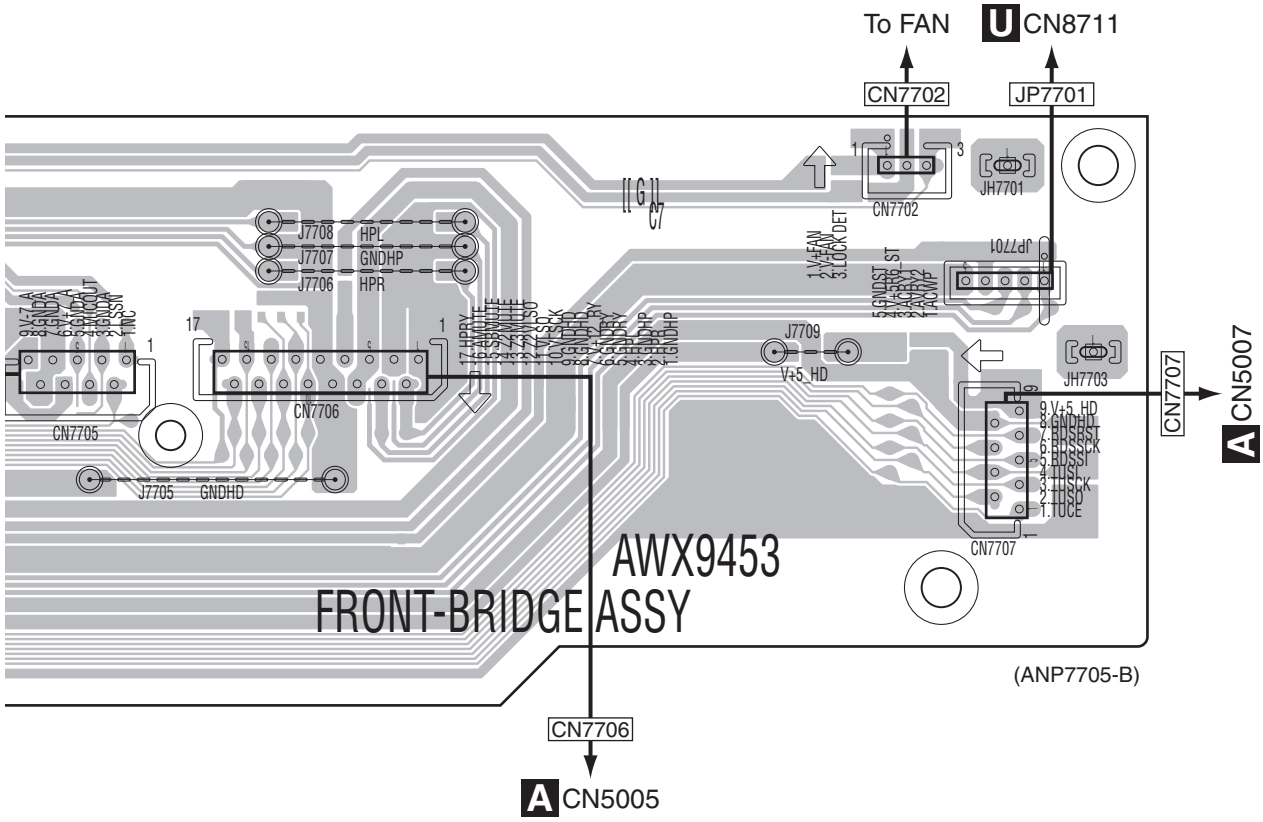
I FRONT BRIDGE ASSY



J MIC HP ASSY

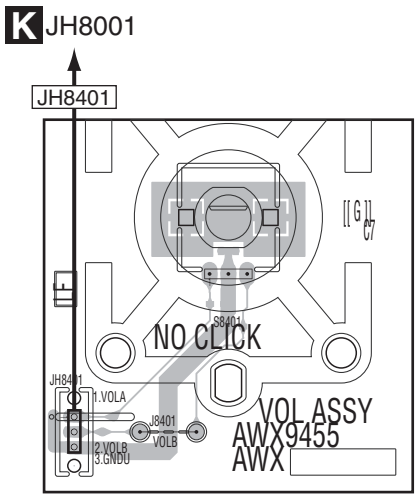


I J L M



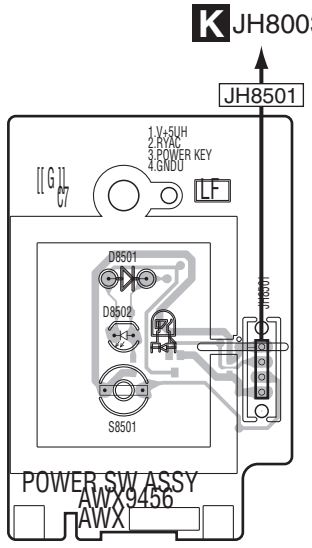
(ANP7705-B)

L VOL ASSY



(ANP7706-B)

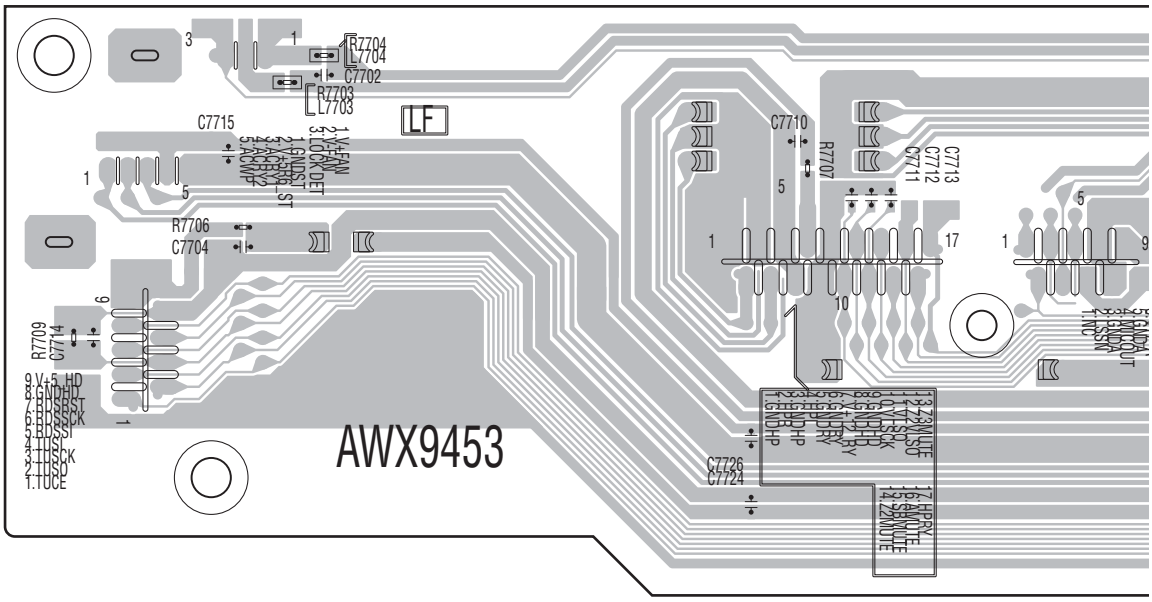
M POWER SW ASSY



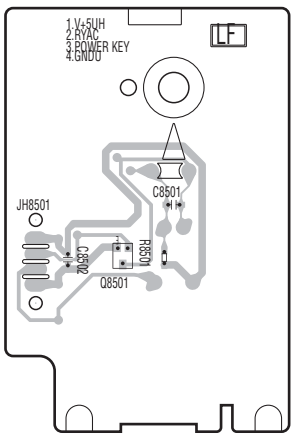
(ANP7706-B)

SIDE B

I FRONT BRIDGE ASSY



M POWER SW ASSY

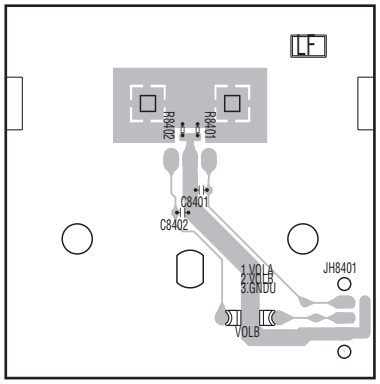


(ANP7706-B)

IC Q

Q8501

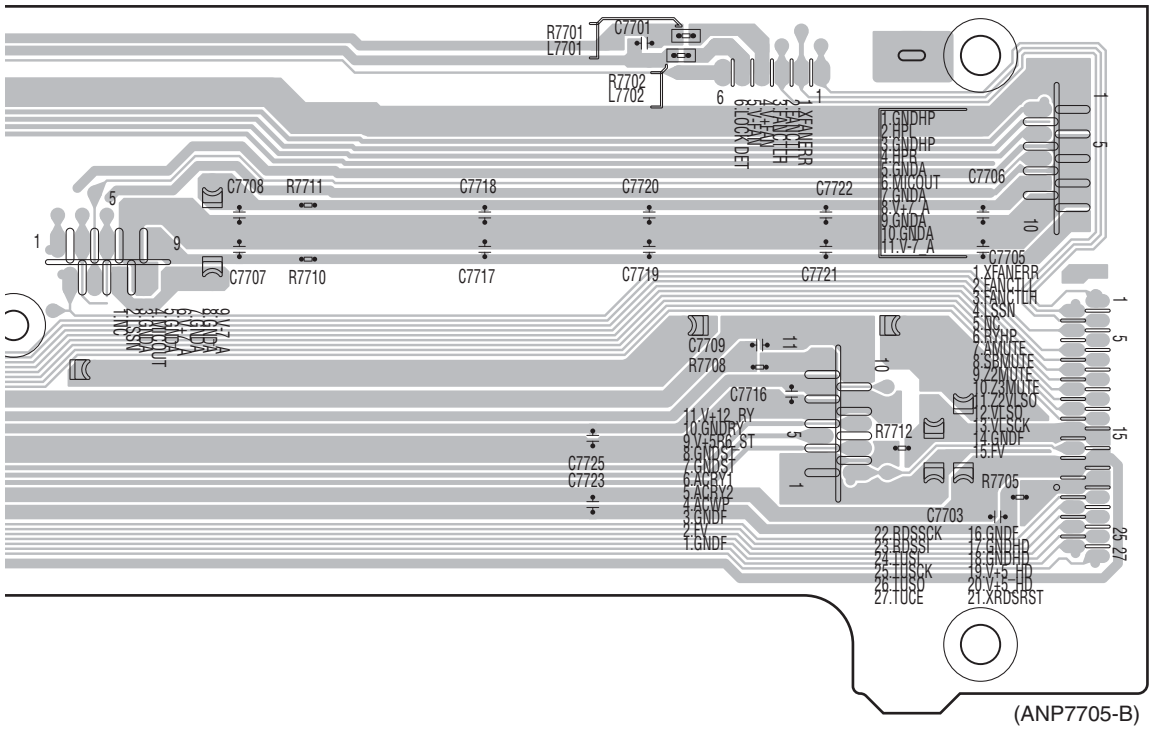
L VOL ASSY



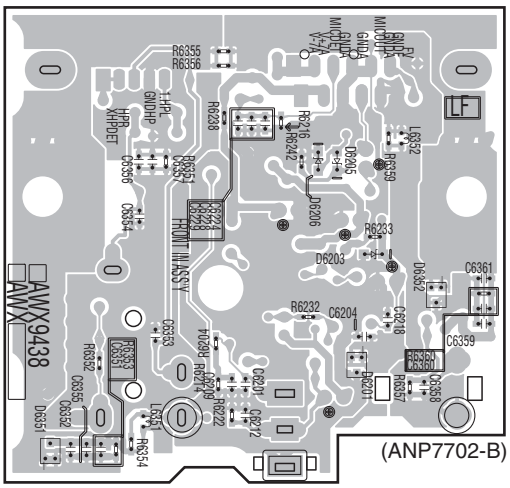
(ANP7706-B)

I J L M

SIDE B



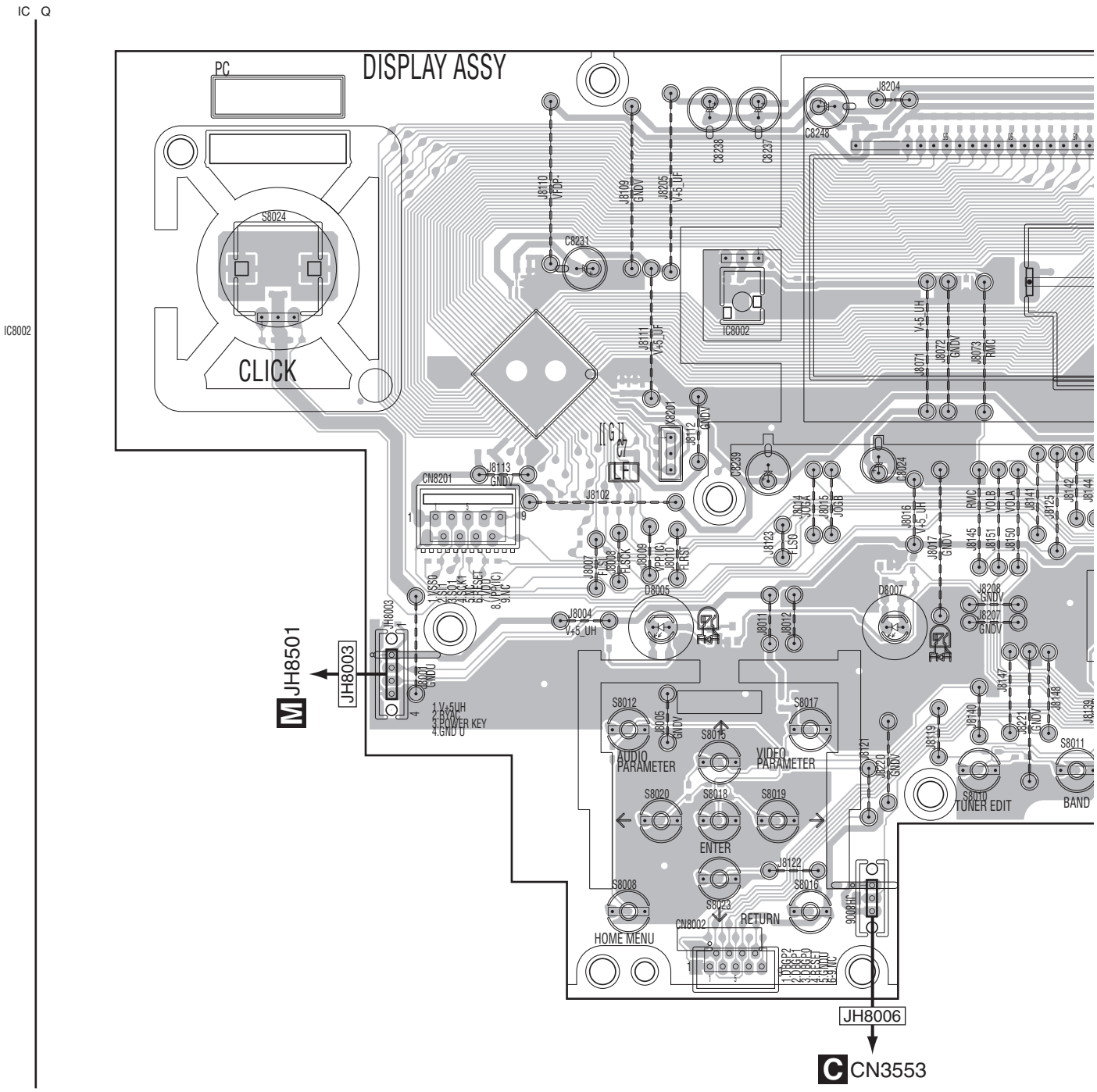
J MIC HP ASSY



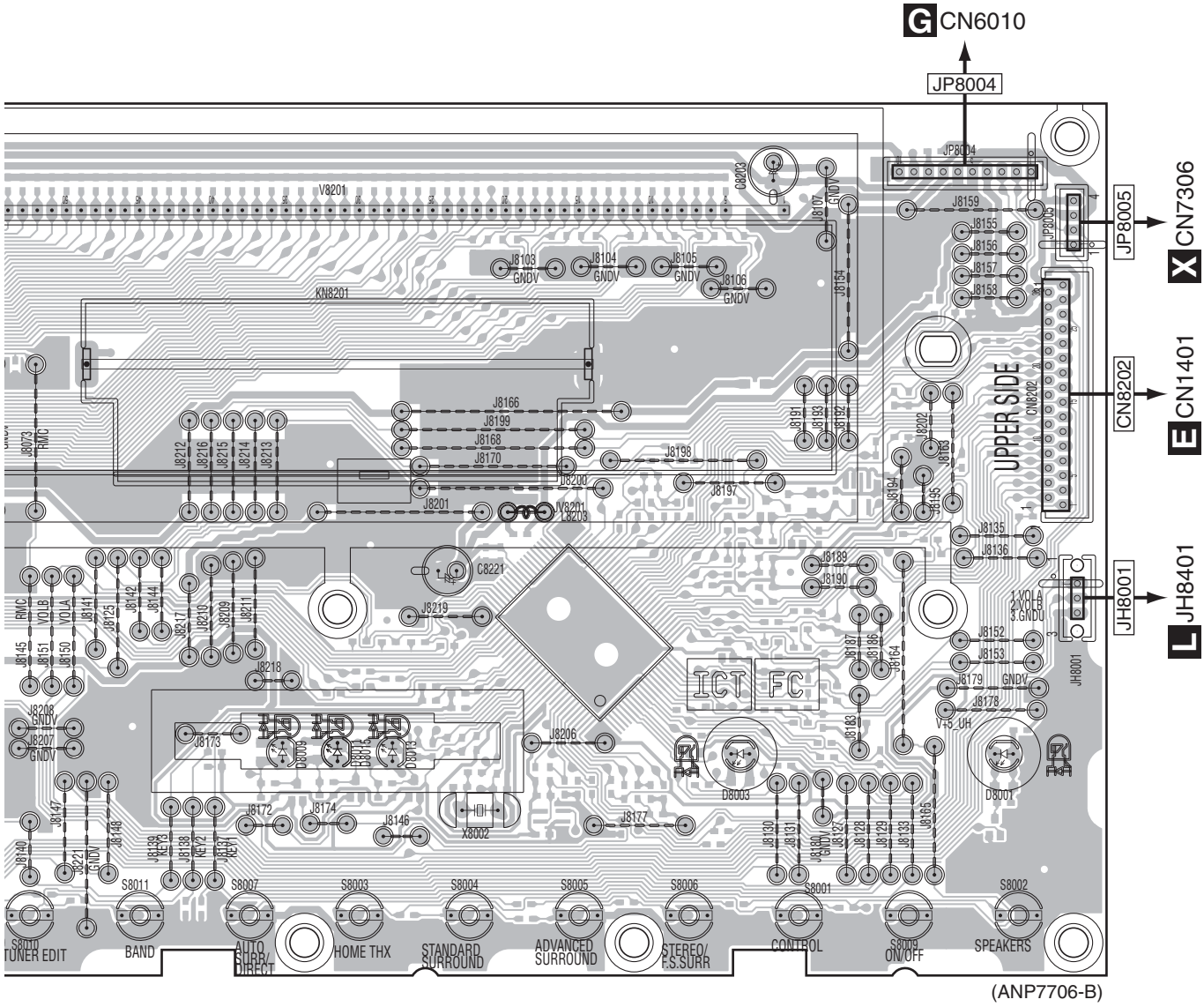
11.9 DISPLAY ASSY

SIDE A

K DISPLAY ASSY



SIDE A



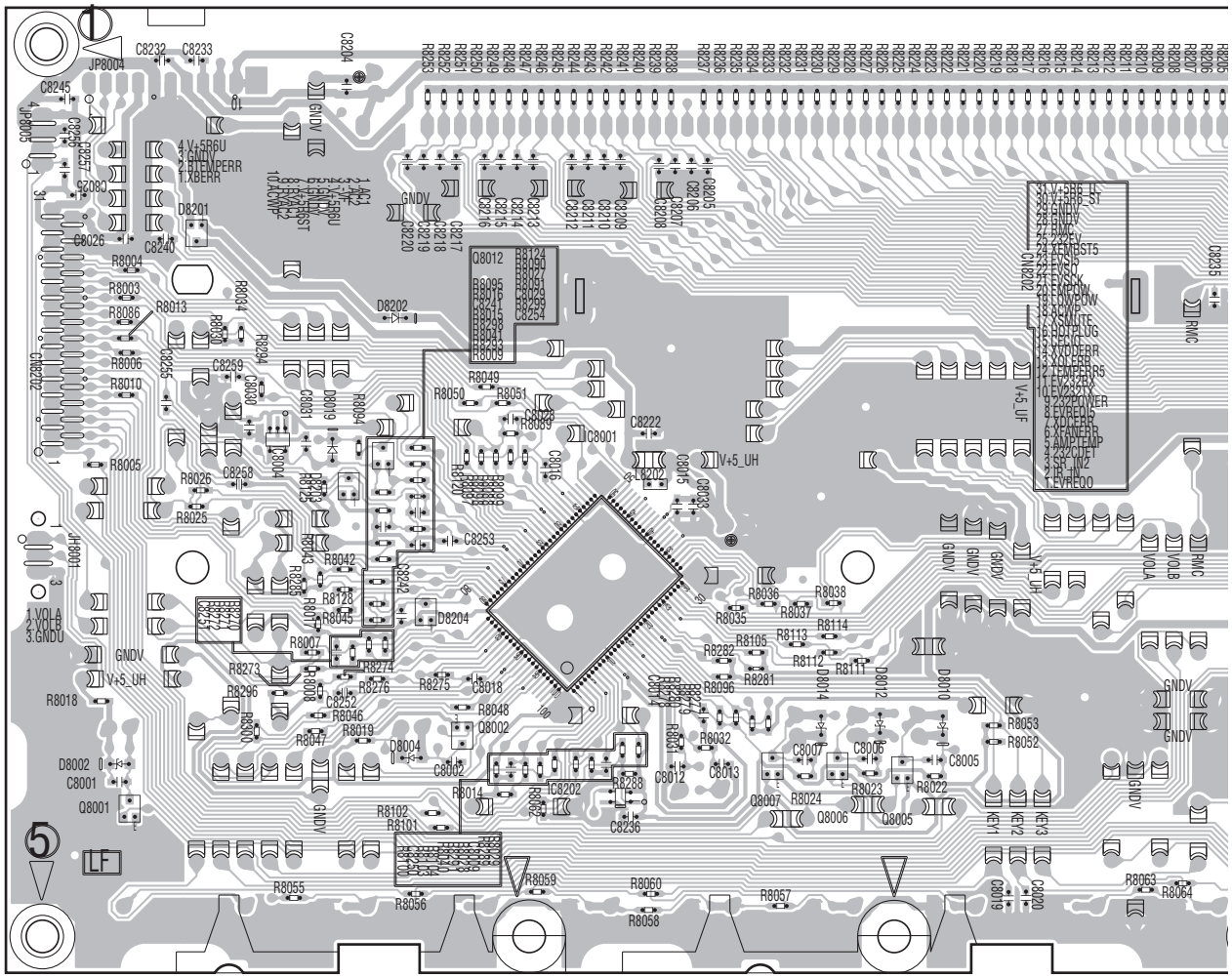
(ANP7706-B)

SIDE B

K DISPLAY ASSY

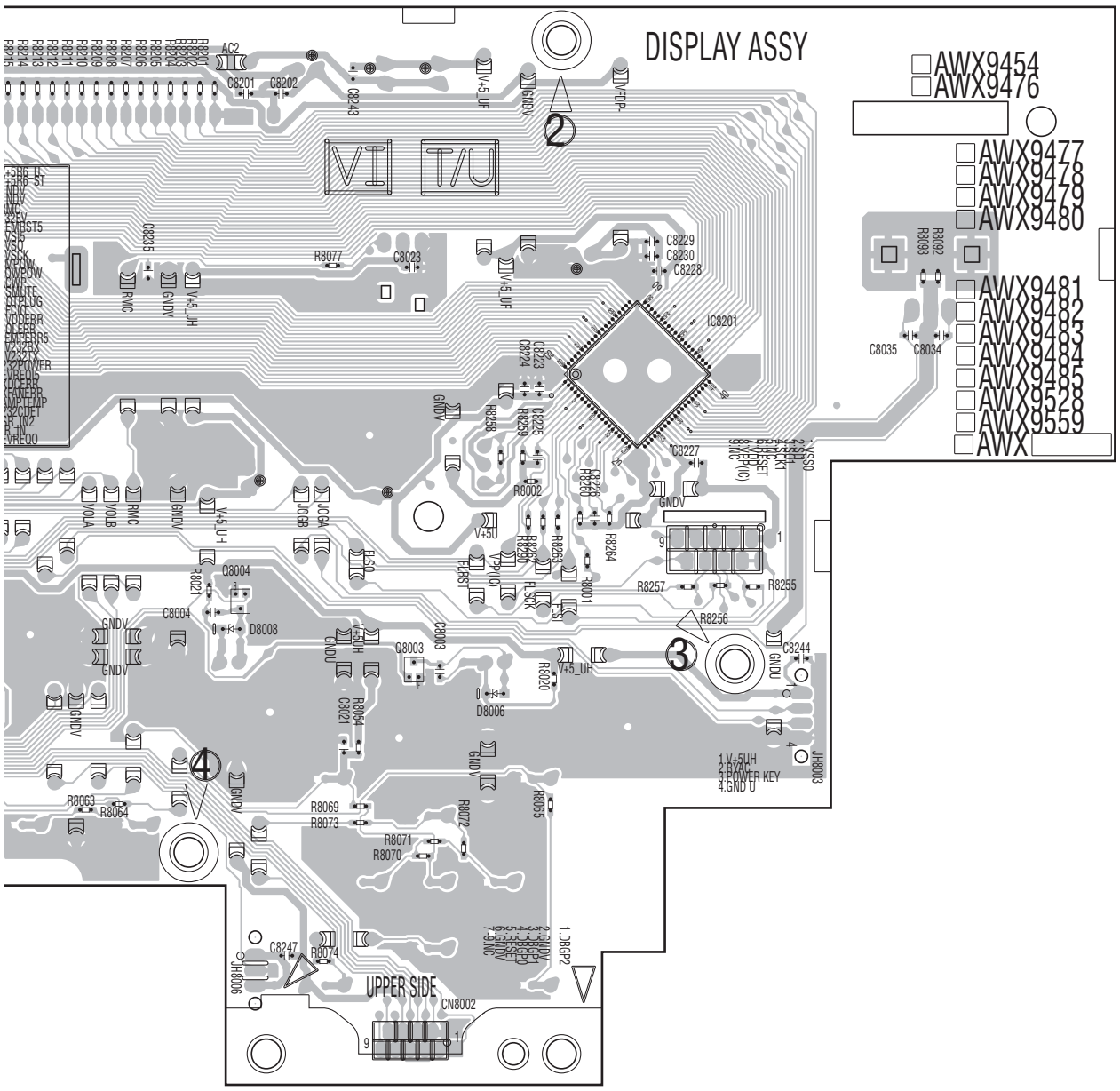
IC Q

Q8012
IC8201
IC8001
IC8004
Q8004
Q8003
Q8002
IC8202
Q8001 Q8007
Q8005 Q8006



(ANP7706-B)

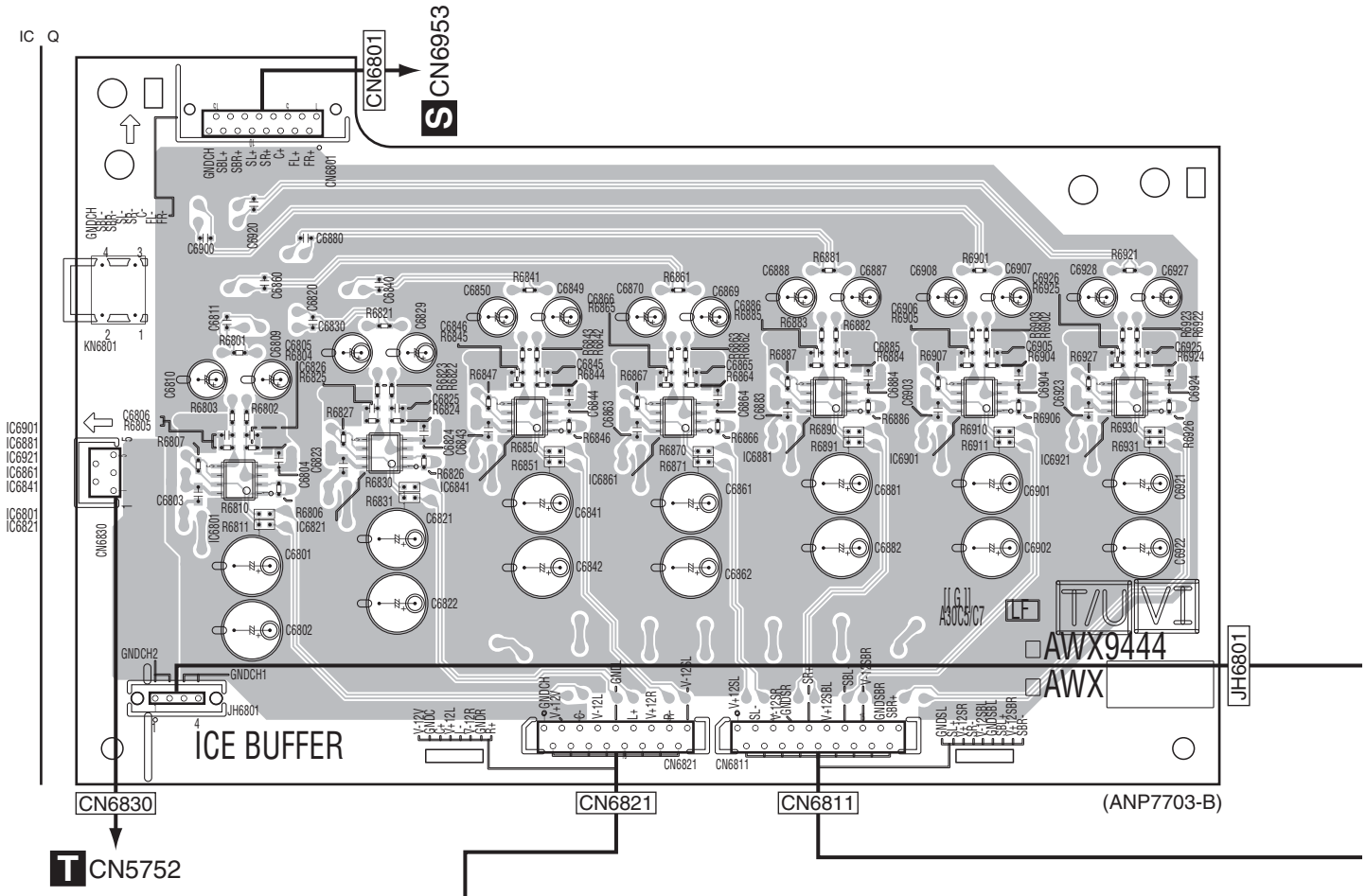
SIDE B

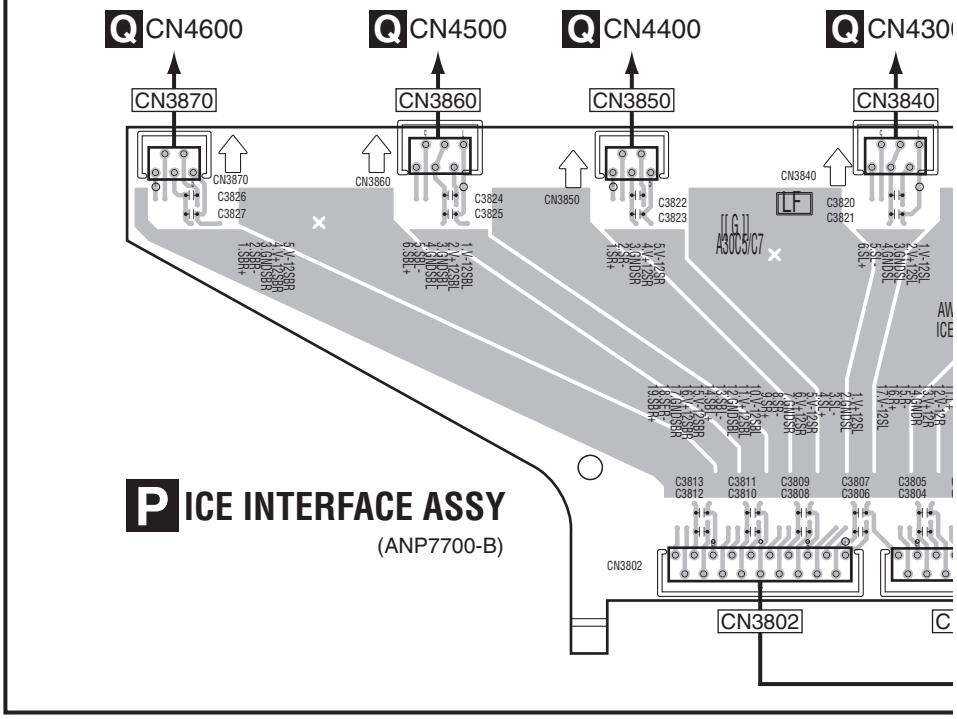

DISPLAY ASSY
AWX9454
AWX9476
AWX9477
AWX9478
AWX9479
AWX9480
AWX9481
AWX9482
AWX9483
AWX9484
AWX9485
AWX9528
AWX9559
AWX
UPPER SIDE
IC8201
CN8002
JH8003
JH8006
1.V+5UH
2.SYAC
3.POWER KEY
4.GND U
1.DBGP2
2.GNDV
3.DBGP1
4.DBGP0
5.RESET
6.GNDV
7-9.NC

11.10 ICE_BUFFER, ICE SHIELD AND ICE INTERFACE ASSYS

SIDE A

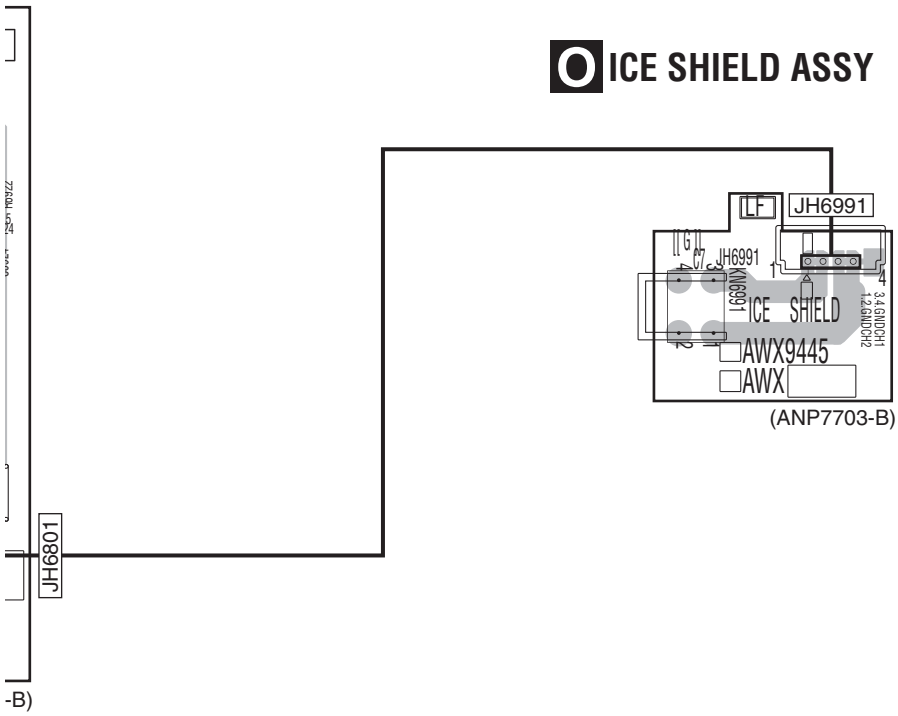
N ICE_BUFFER ASSY

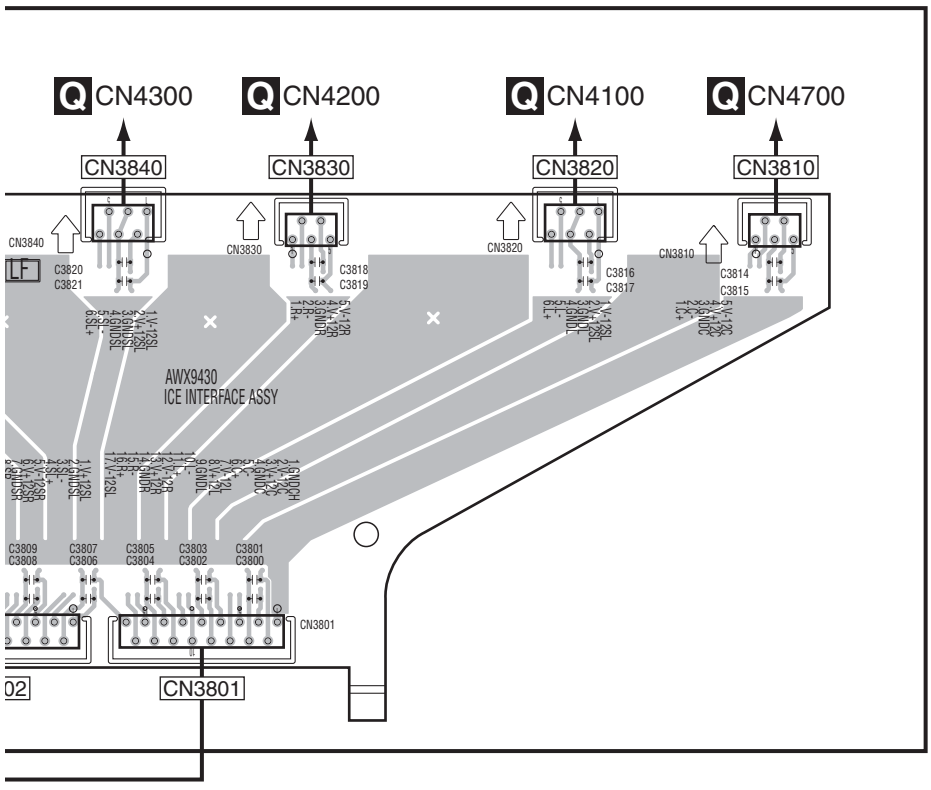




SIDE A

Q ICE SHIELD ASSY



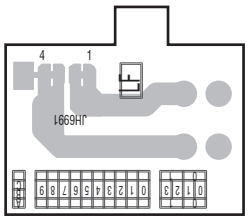


SIDE B

A

B

O ICE SHIELD ASSY



(ANP7703-B)

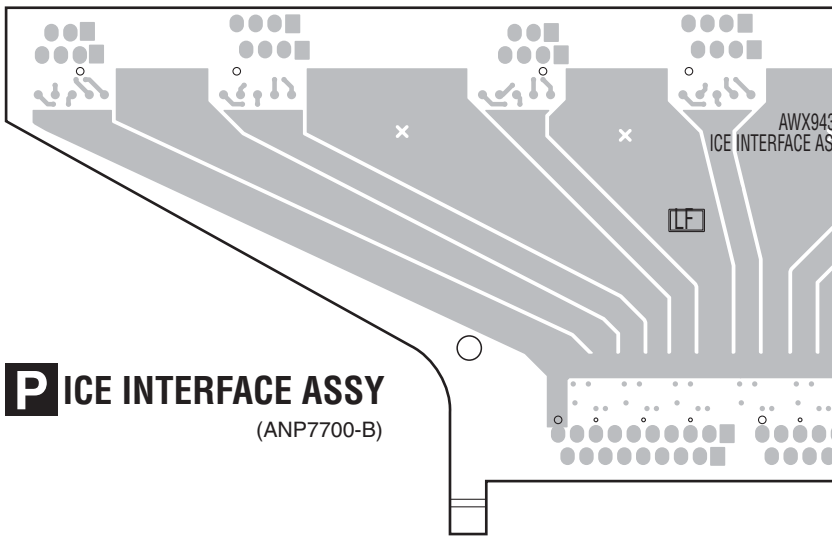
C

D

E

P ICE INTERFACE ASSY

(ANP7700-B)

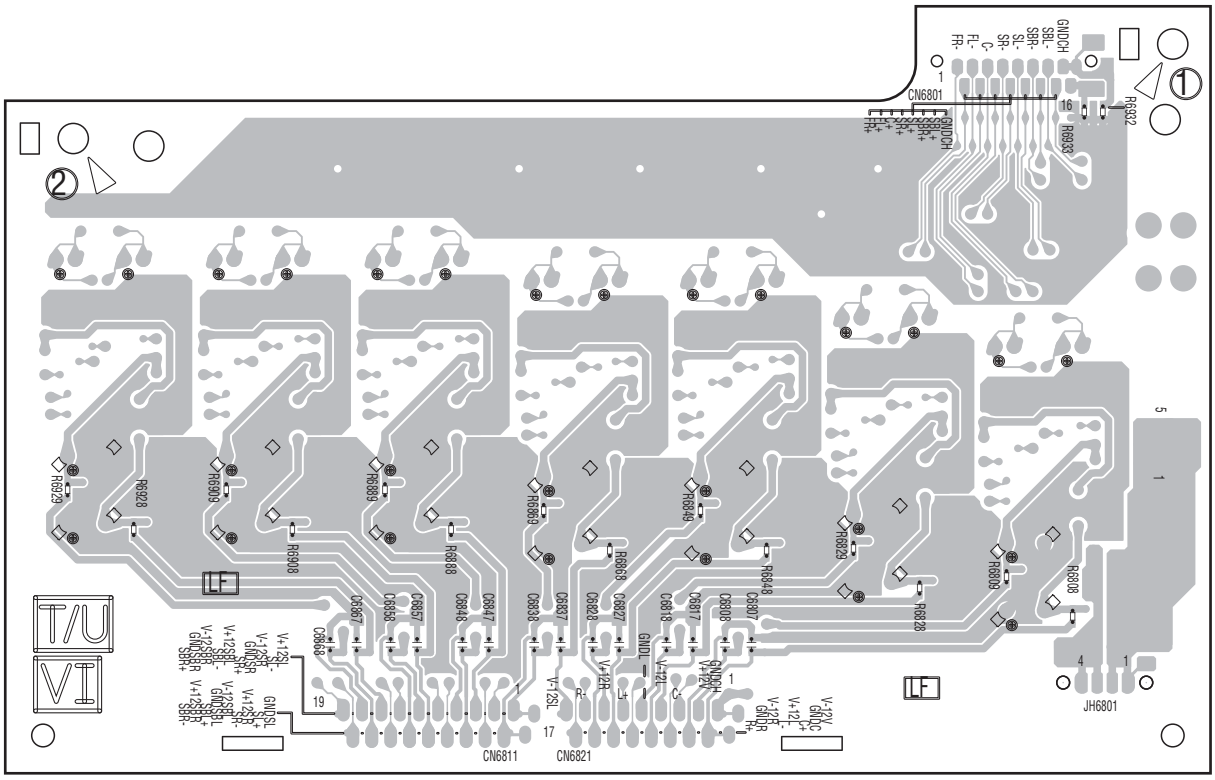


F

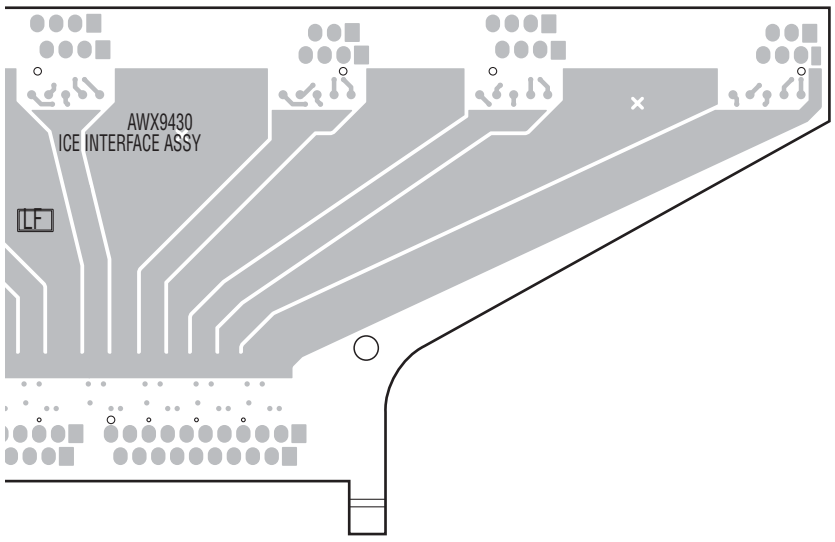
O P

SIDE B

N ICE_BUFFER ASSY



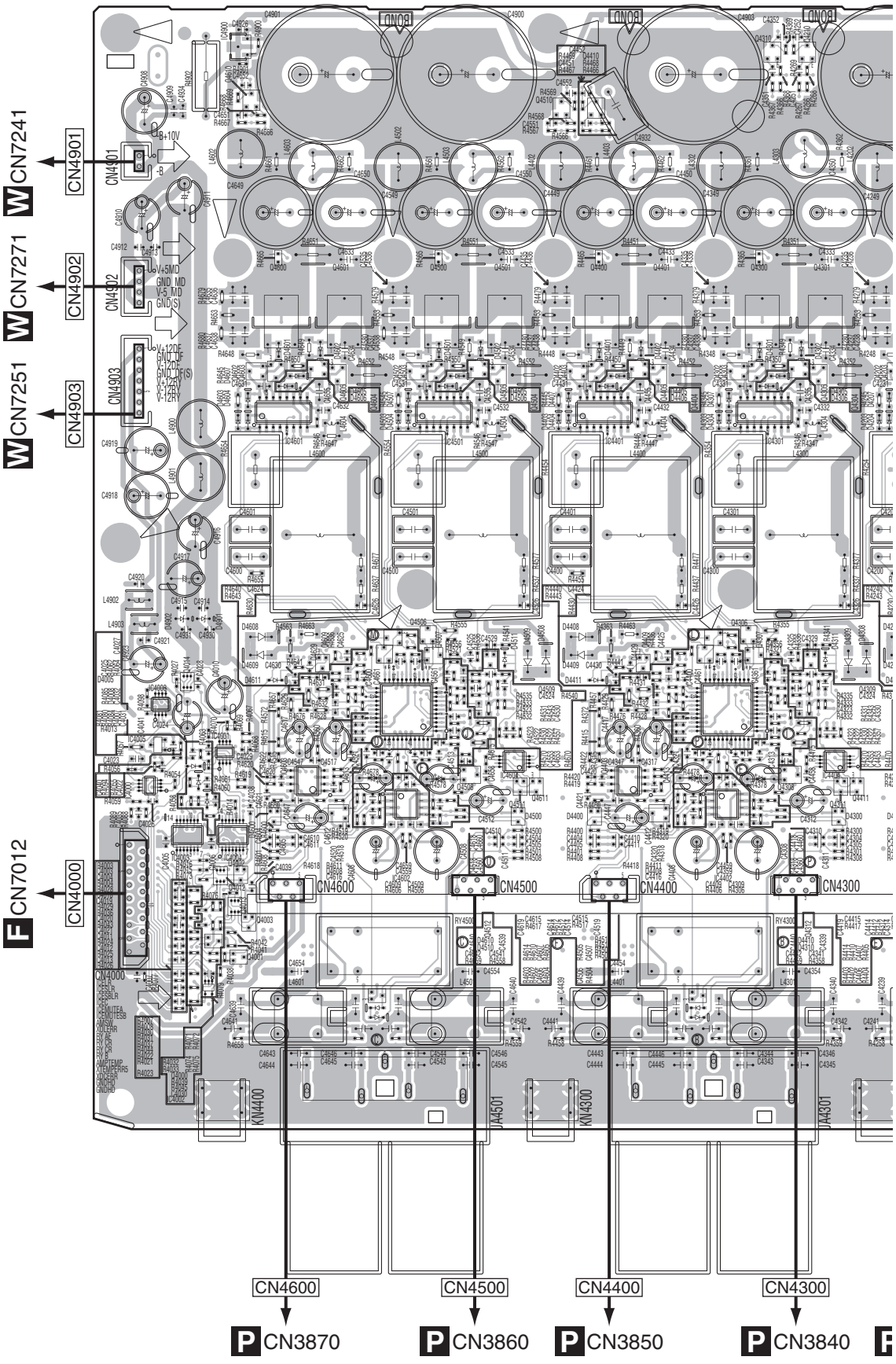
(ANP7703-B)



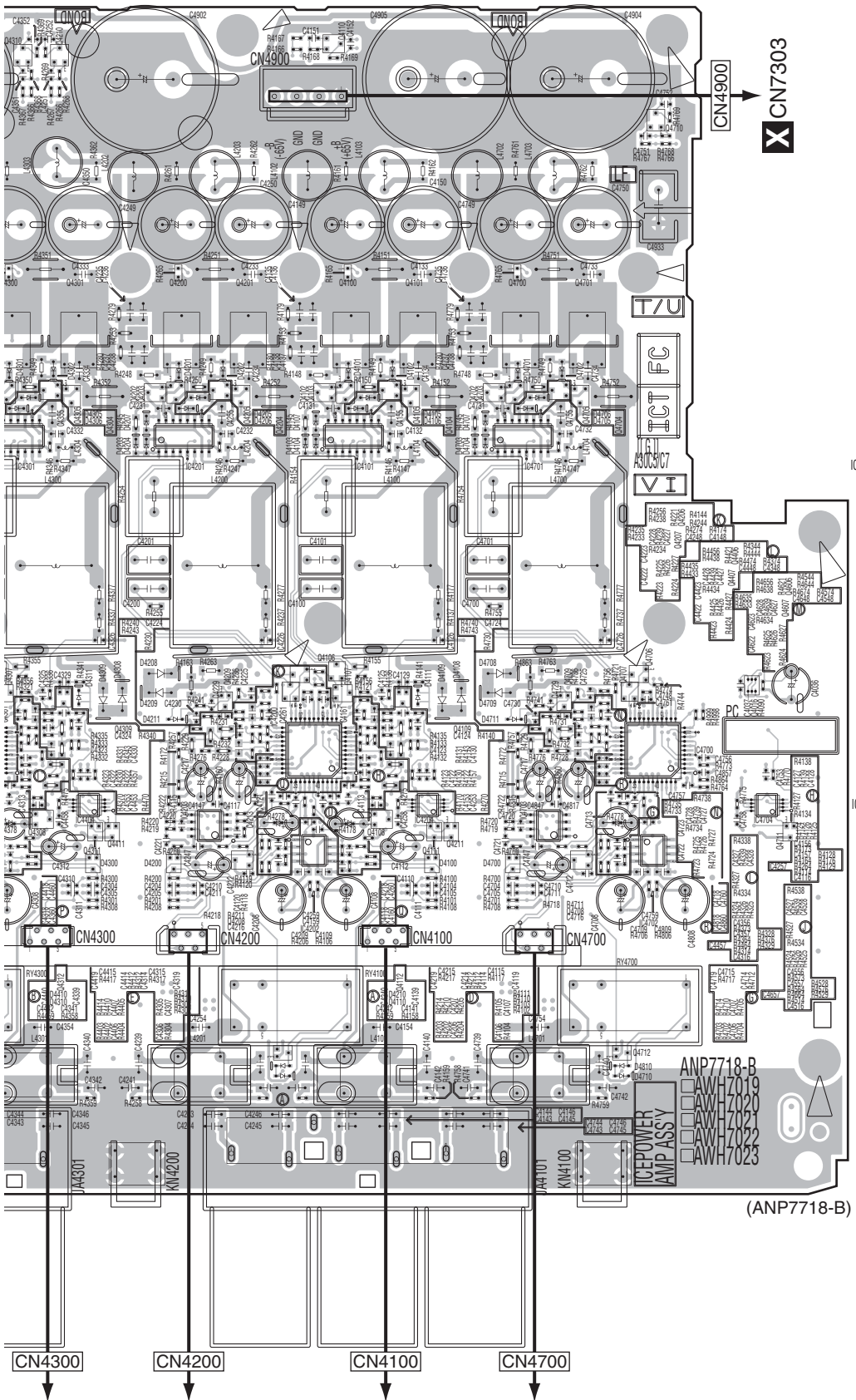
11.11 ICEPOWER AMP ASSY

SIDE A

Q ICEPOWER AMP ASSY



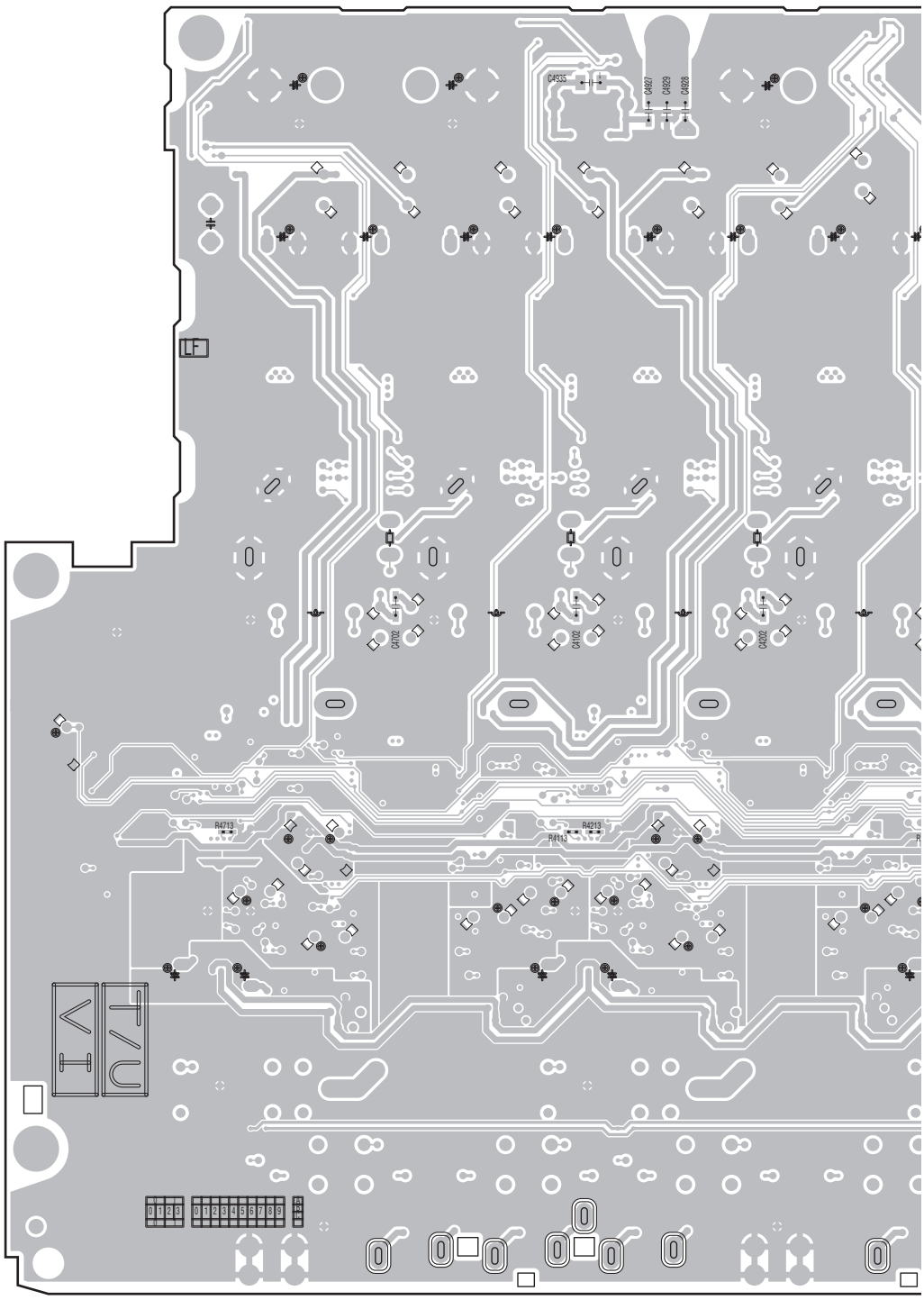
SIDE A



IC	Q
IC4900	Q4110 Q4210 Q4310 Q4410
	Q4610
	Q4510
	Q4710
	Q4100 Q4101 Q4200 Q4201 Q4300 Q4301 Q4400 Q4401 Q4500 Q4501 Q4600 Q4601 Q4700 Q4701
	Q4102 Q4103 Q4202 Q4203 Q4302 Q4303 Q4402 Q4403 Q4502 Q4503 Q4602 Q4603 Q4702 Q4703
	Q4105 Q4205 Q4305 Q4405 Q4505 Q4605 Q4705
IC4101 IC4201 IC4301 IC4401 IC4501 IC4601 IC4701	Q4104 Q4204 Q4304 Q4404 Q4504 Q4604 Q4704
	Q4206
	Q4207
	Q4406
	Q4407
	Q4606
	Q4607
	Q4106 Q4306 Q4506 Q4706
	Q4107 Q4209 Q4307 Q4409
	Q4507 Q4609 Q4707 Q4709
	Q4014
IC4200 IC4400 IC4600	Q4016
IC4006	Q4109 Q4309 Q4509
IC4700	
IC4001 IC4005	
IC4203 IC4403 IC4603 IC4703	
IC4204 IC4404	Q4108 Q4308 Q4508
IC4000 IC4704 IC4604	Q4211 Q4411 Q4611 Q4711 Q4111 Q4311 Q4511
IC4003 IC4004 IC4702	Q4002 Q4708
IC4202 IC4402 IC4602	Q4608 Q4208 Q4408 Q4012
	Q4013
	Q4003 Q4112 Q4312 Q4512
	Q4001
	Q4712
	Q4000
IC4002	

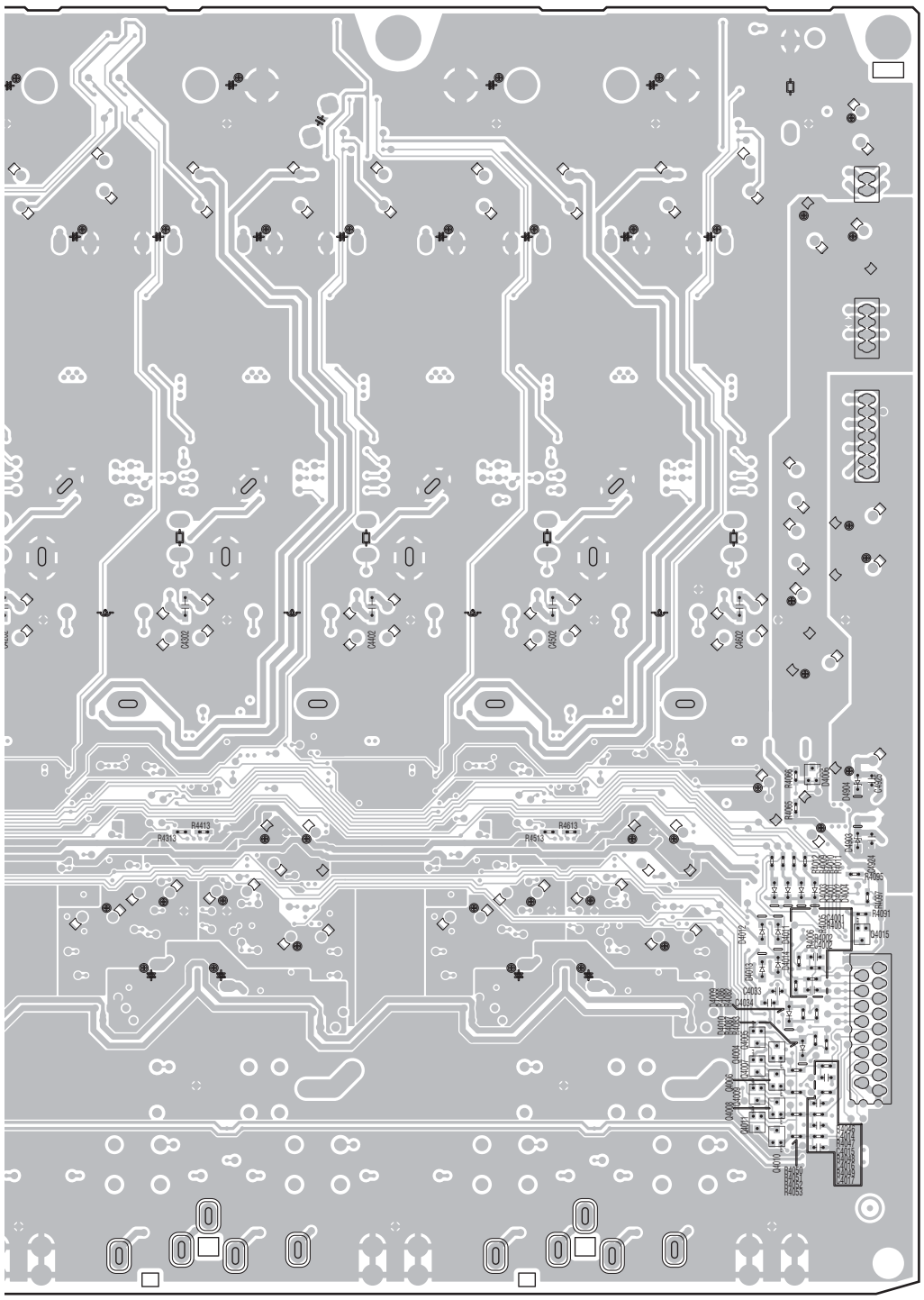
SIDE B

Q ICEPOWER AMP ASSY



SIDE B

IC Q



(ANP7718-B)

Q4015

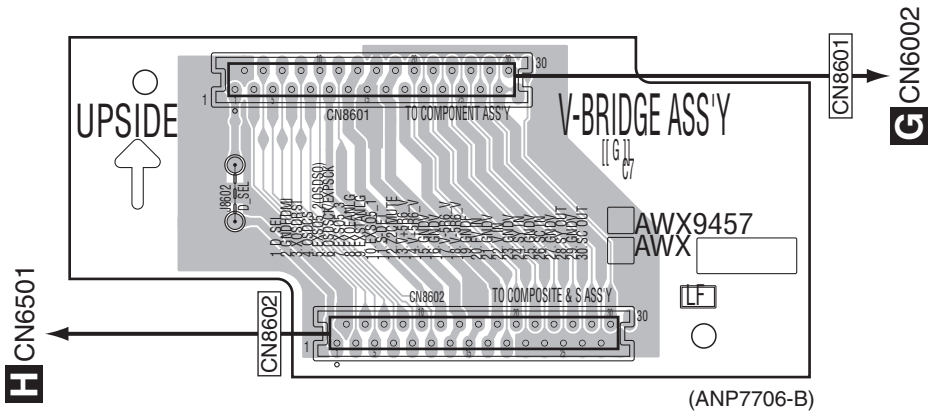
Q4005
Q4004
Q4007
Q4006
Q4009
Q4008
Q4011

Q4010

11.12 V-BRIDGE, PRE_BRIDGE, PRIMARY GUARD AND PRIMARY ASSYS

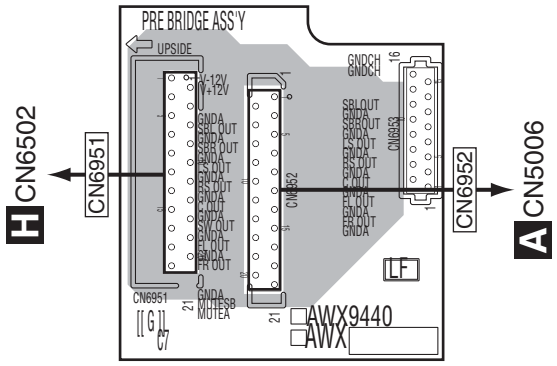
SIDE A

R V-BRIDGE ASSY



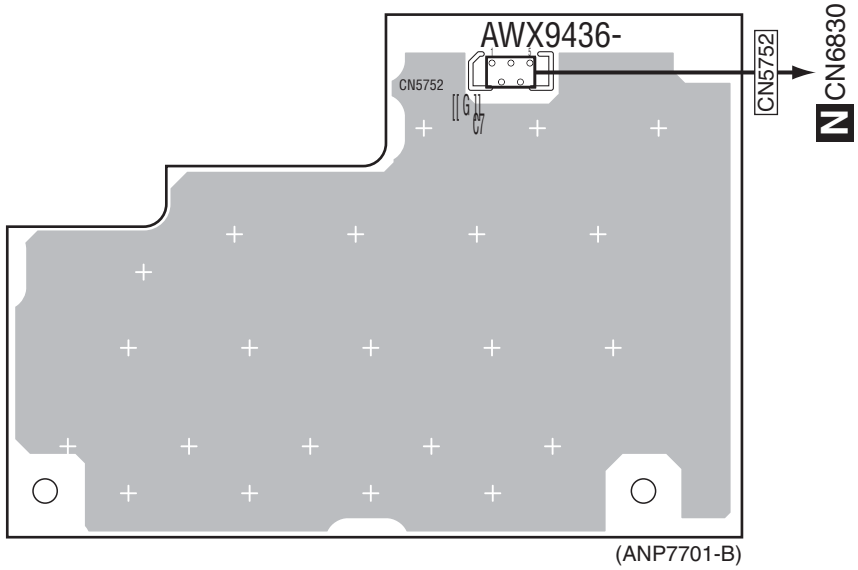
(ANP7706-B)

S PRE_BRIDGE ASSY



(ANP7703-B)

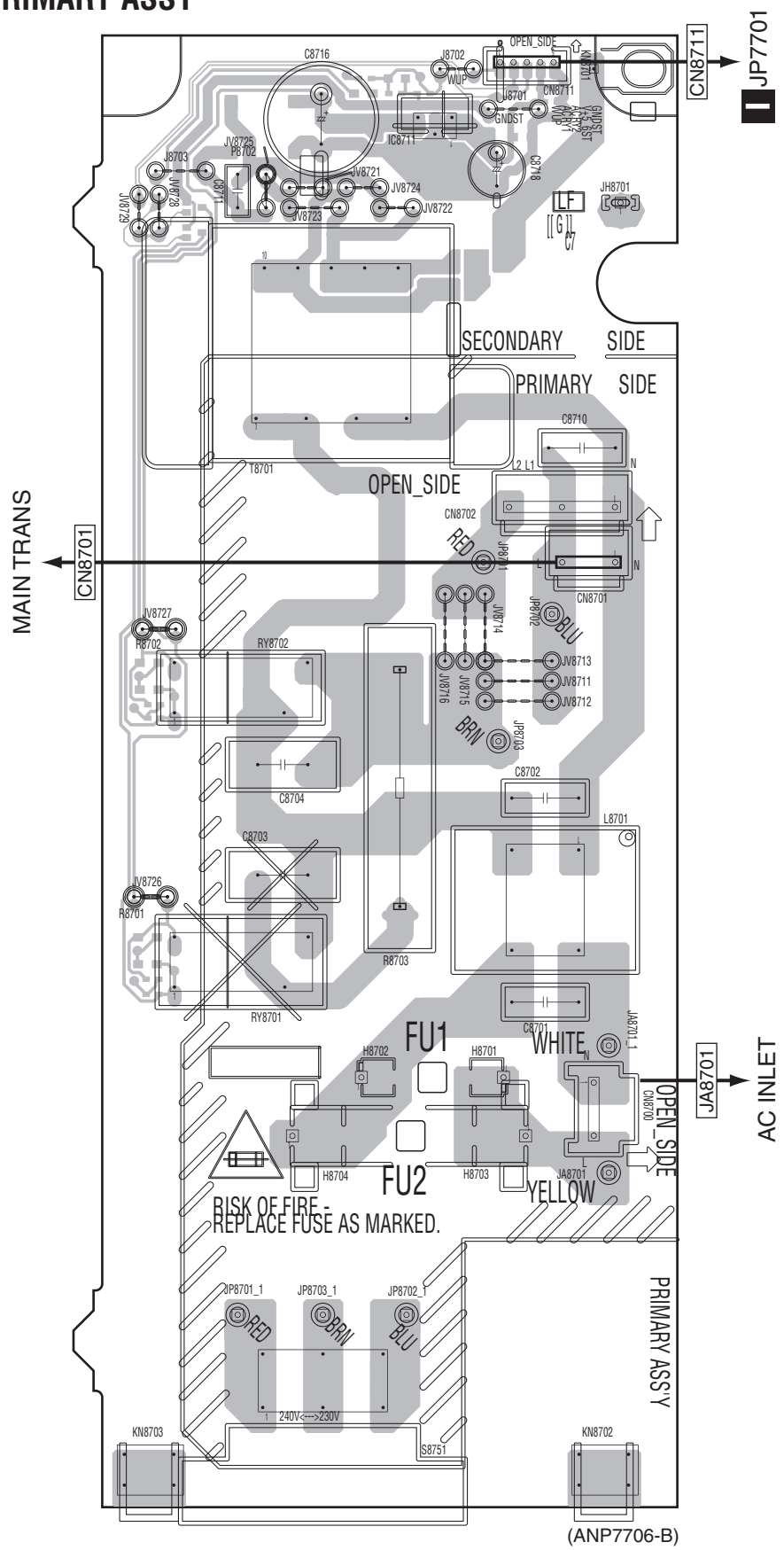
T PRIMARY GUARD ASSY



(ANP7701-B)

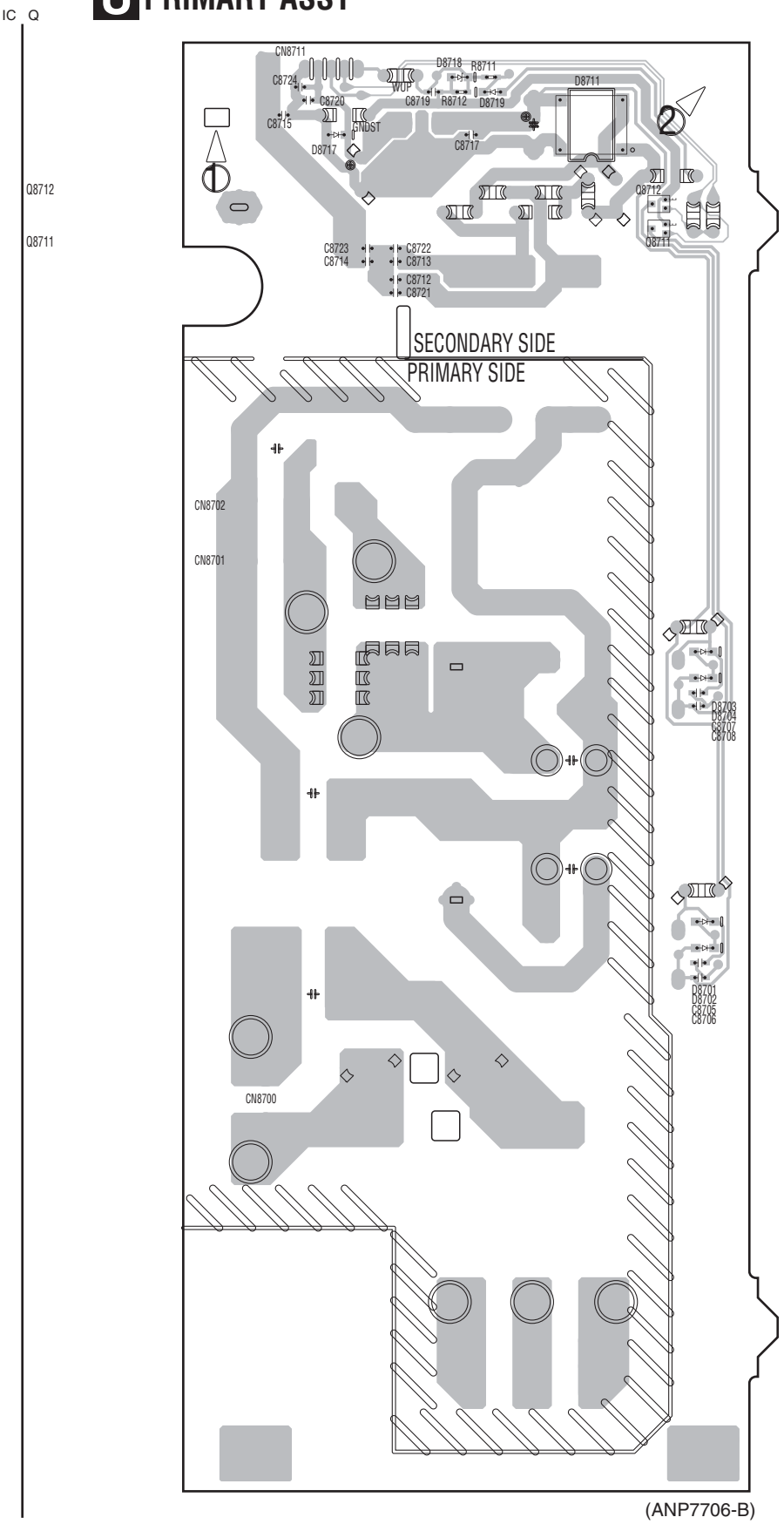
R S T

U PRIMARY ASSY



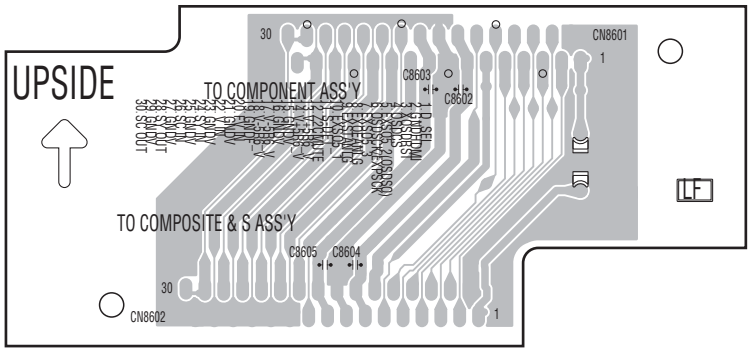
SIDE B

U PRIMARY ASSY



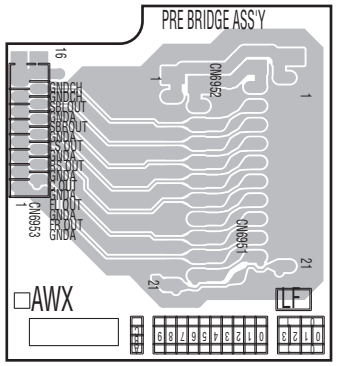
(ANP7706-B)

R V-BRIDGE ASSY



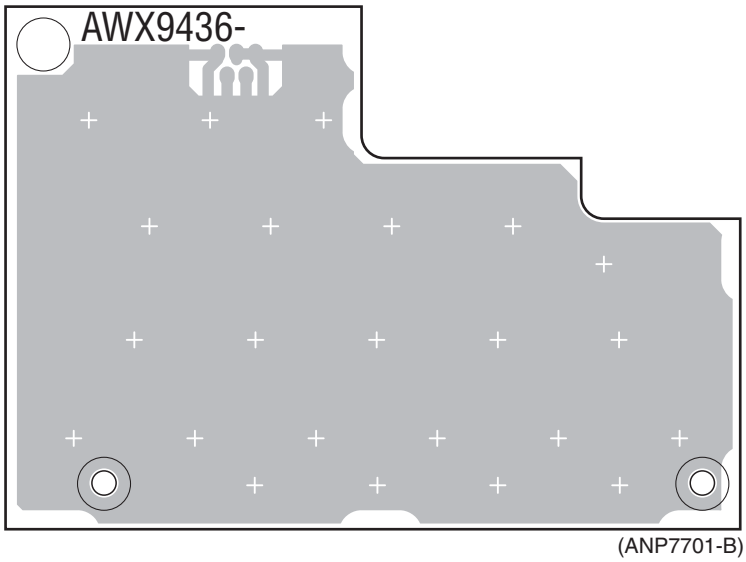
(ANP7706-B)

S PRE_BRIDGE ASSY



(ANP7703-B)

T PRIMARY GUARD ASSY

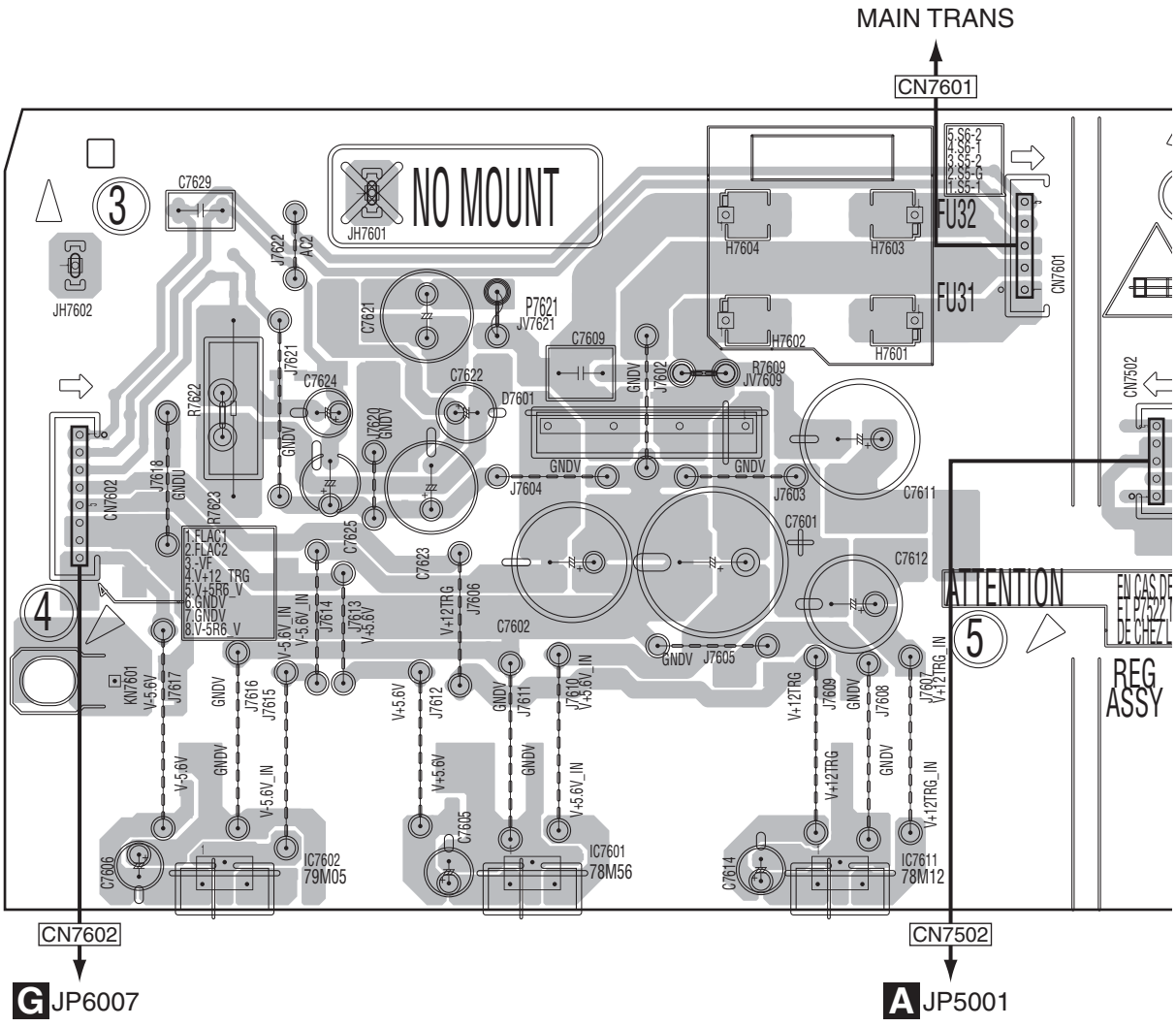


(ANP7701-B)

11.13 REG ASSY

SIDE A

V REG ASSY



SIDE A

A

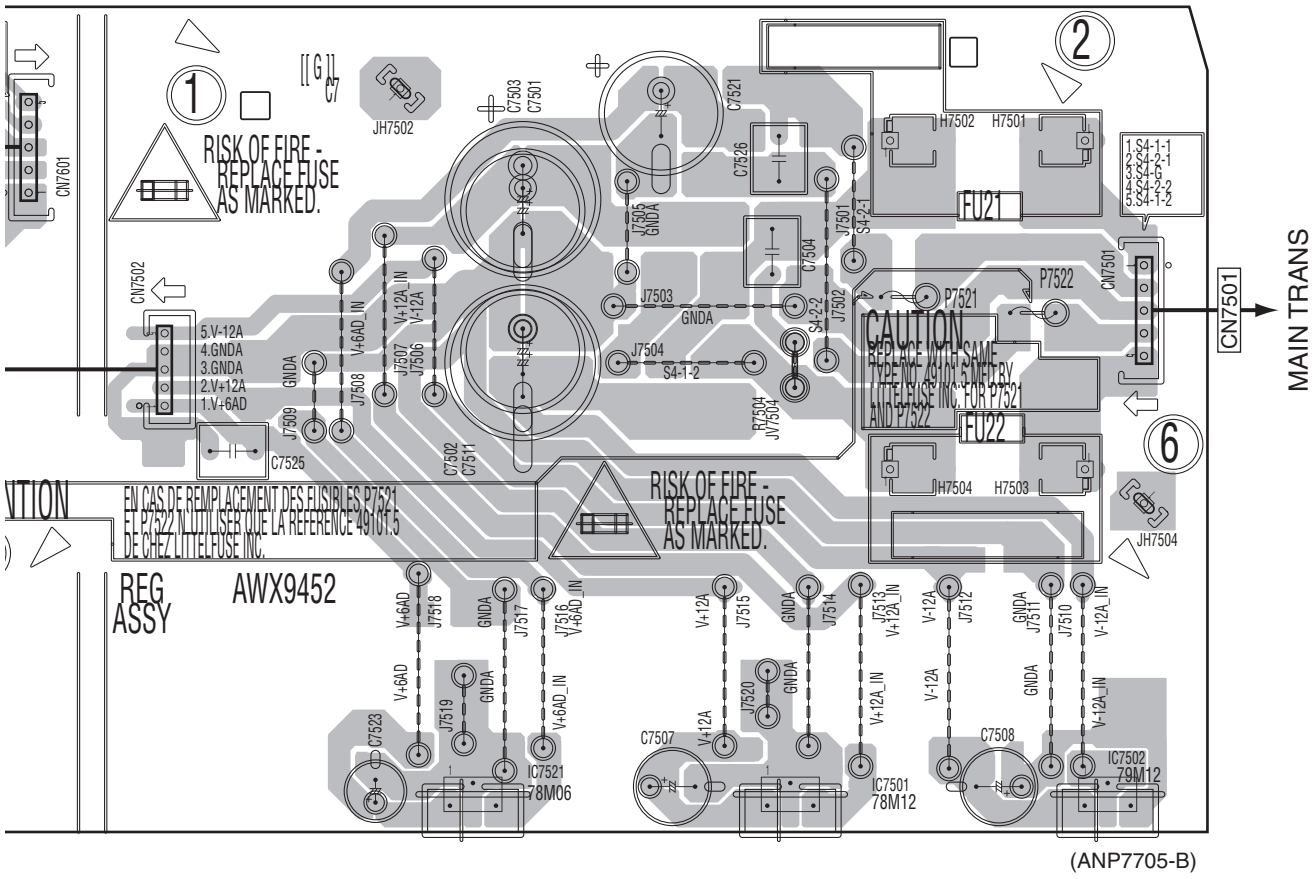
B

C

D

E

F



(ANP7705-B)

SIDE B

A

B

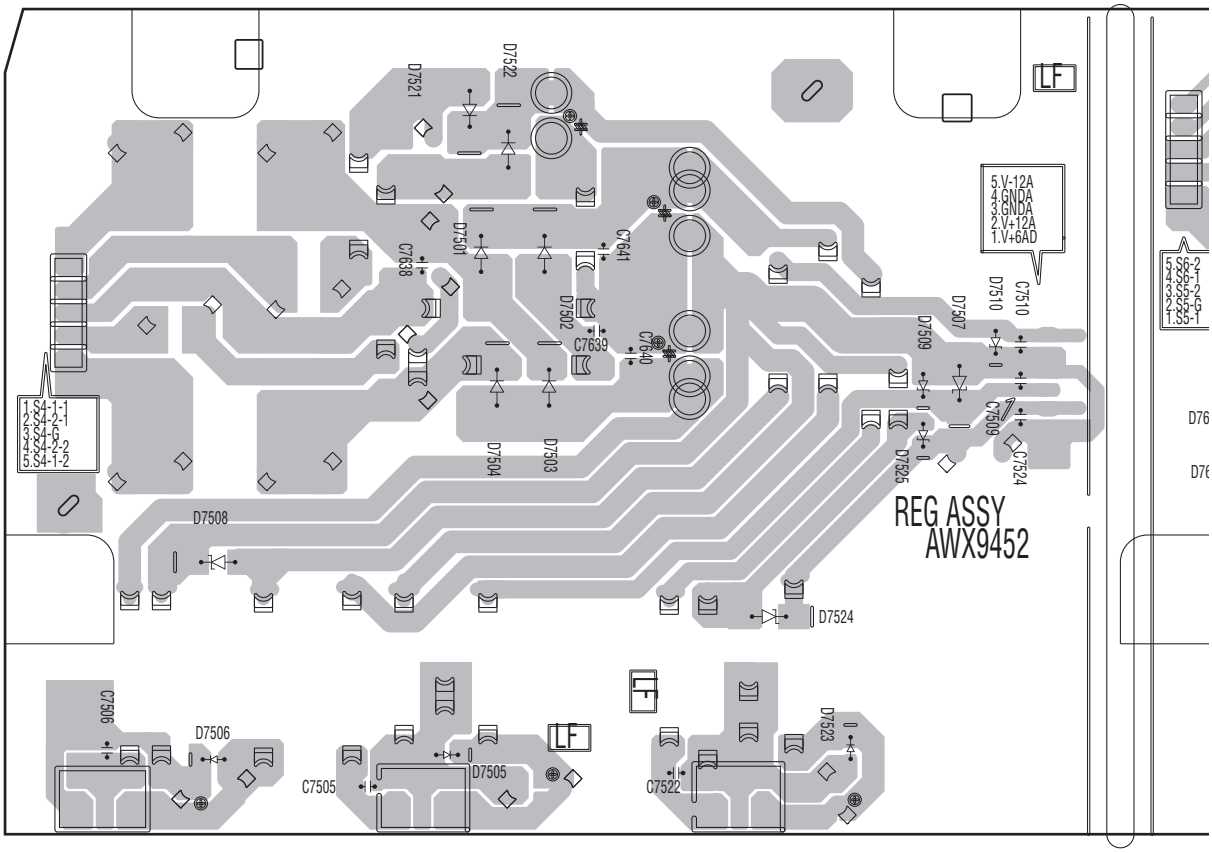
C

D

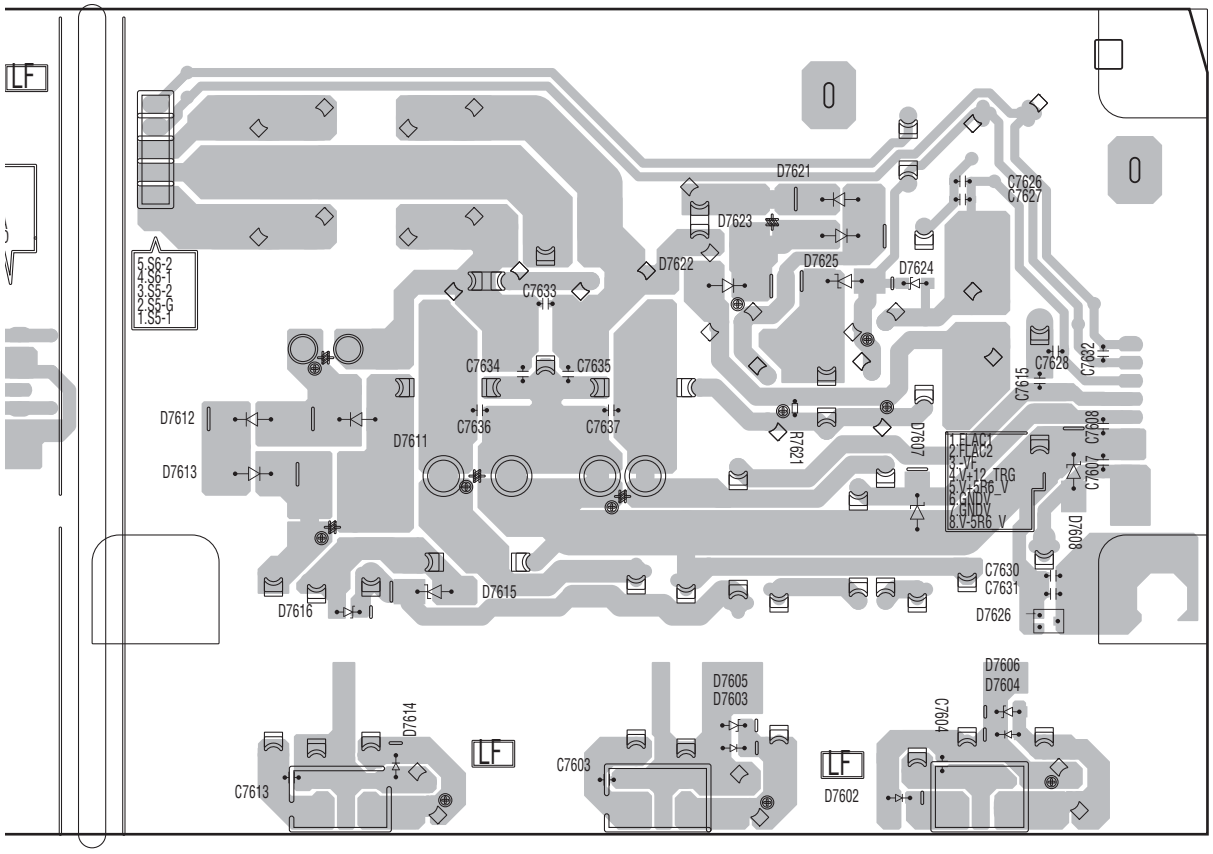
E

F

V REG ASSY



SIDE B

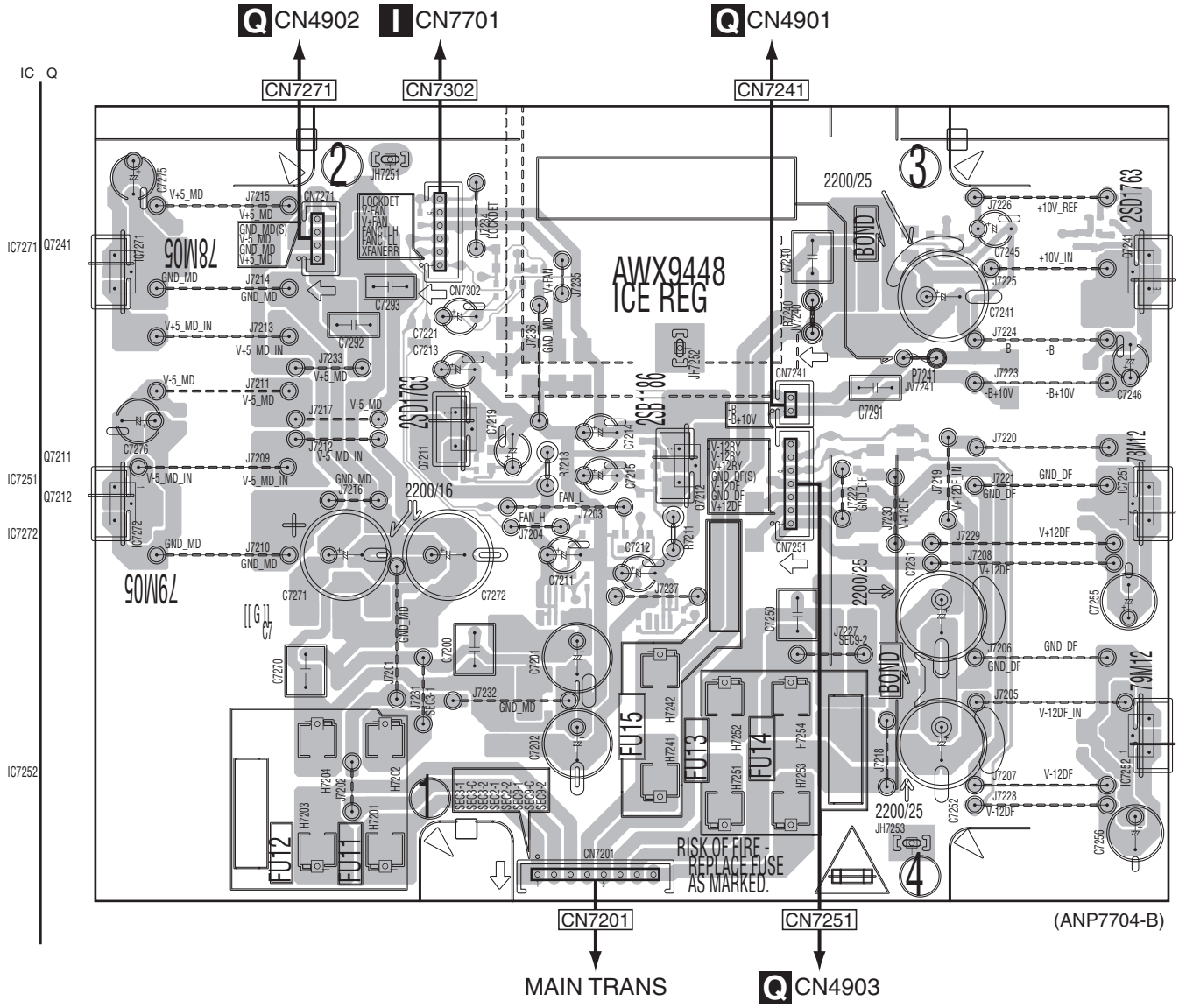


(ANP7705-B)

11.14 ICE_REG ASSY

SIDE A **SIDE A**

W ICE_REG ASSY



SIDE B

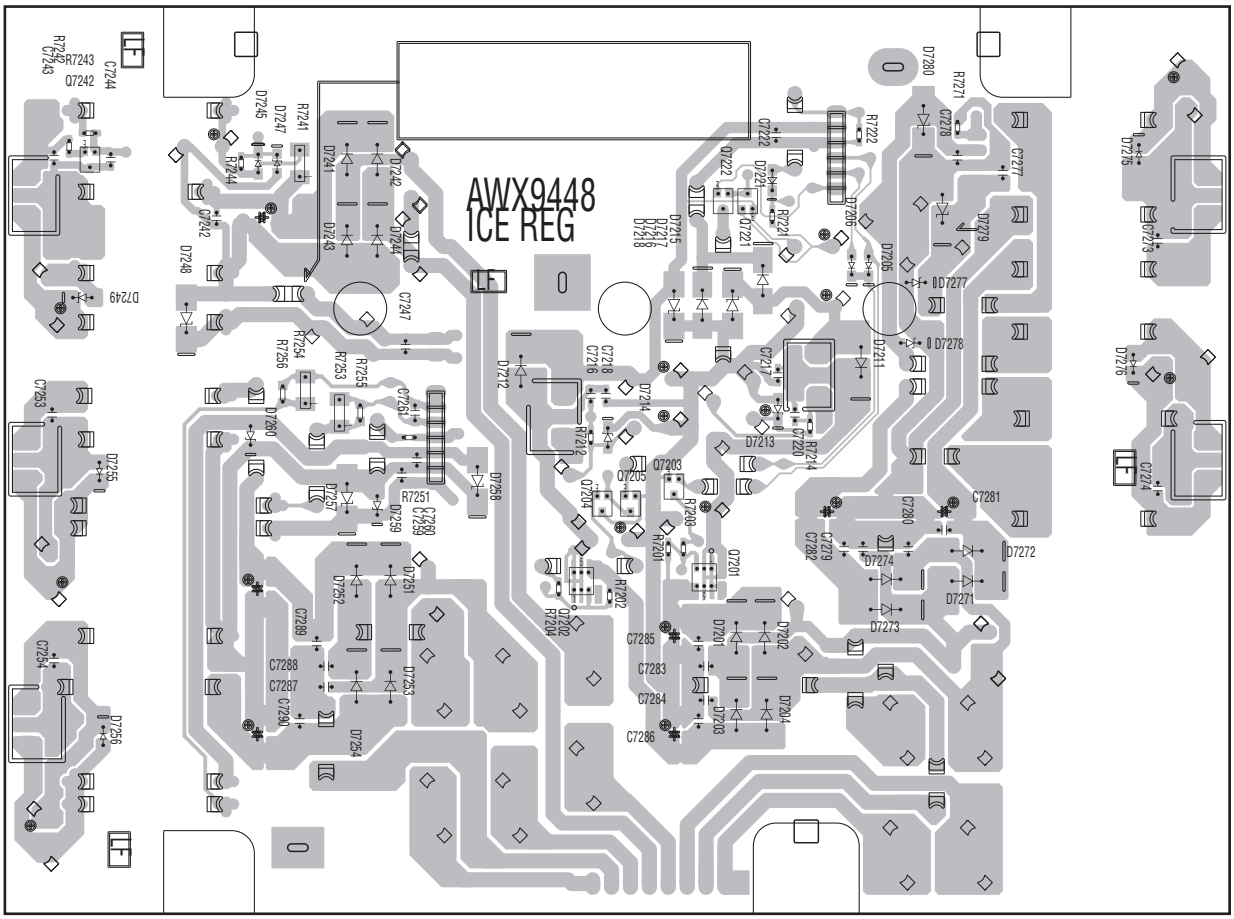
SIDE B

A

W ICE_REG ASSY

B

IC Q



(ANP7704-B)

C

D

E

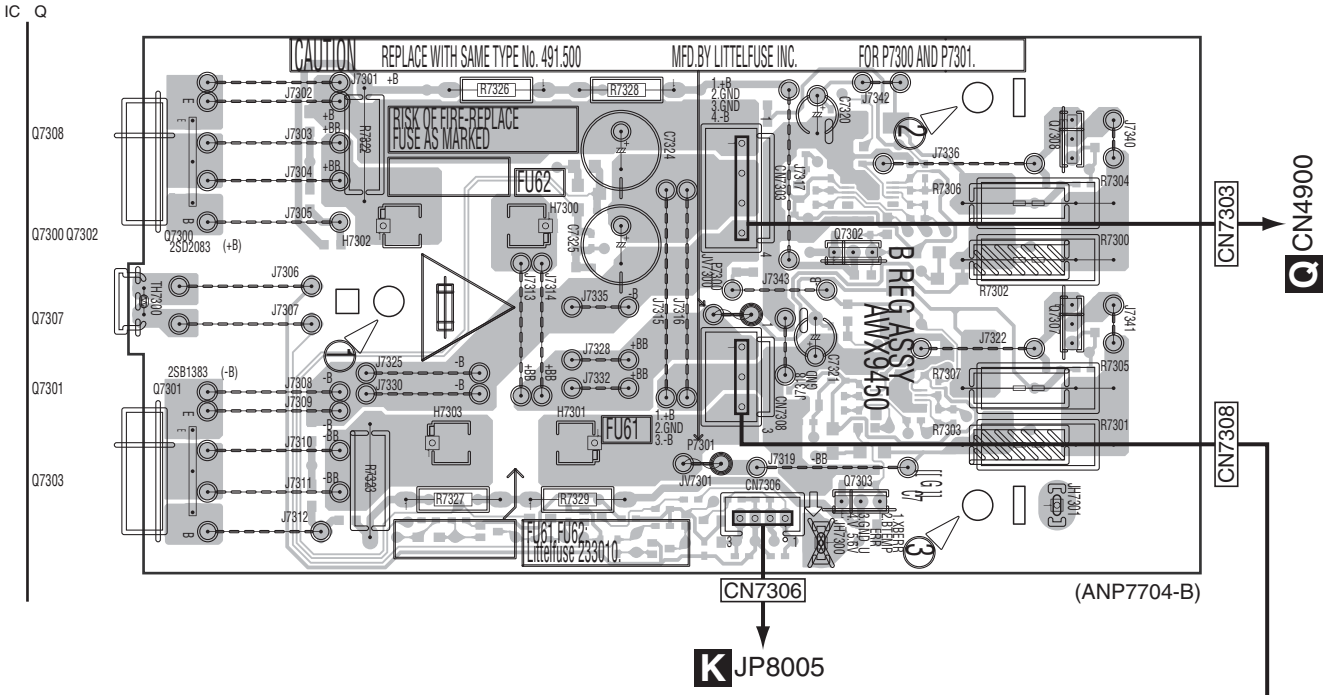
F

11.15 B_REG AND B_DIODE ASSY

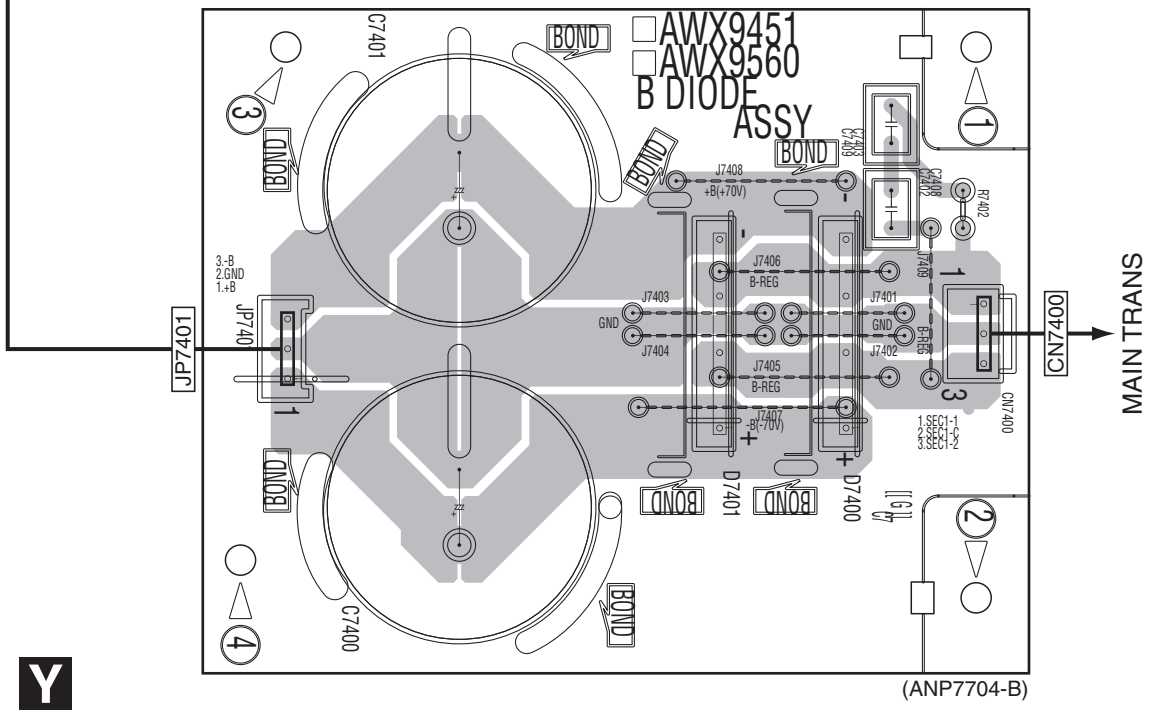
SIDE A

SIDE A

X B_REG ASSY



Y B_DIODE ASSY

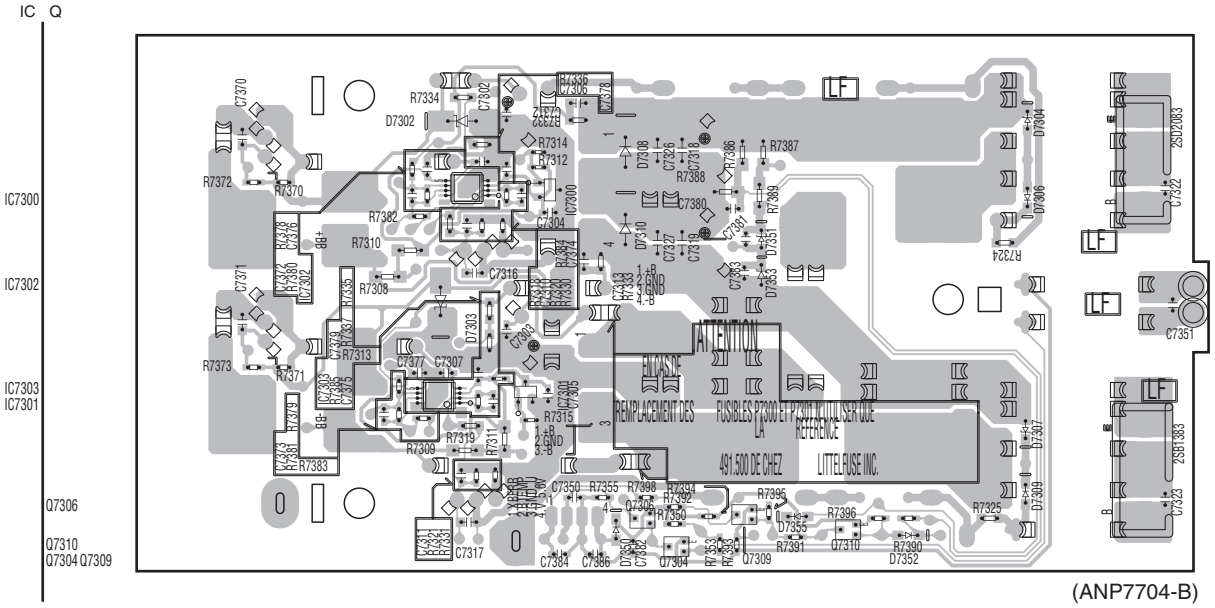


X Y

X Y

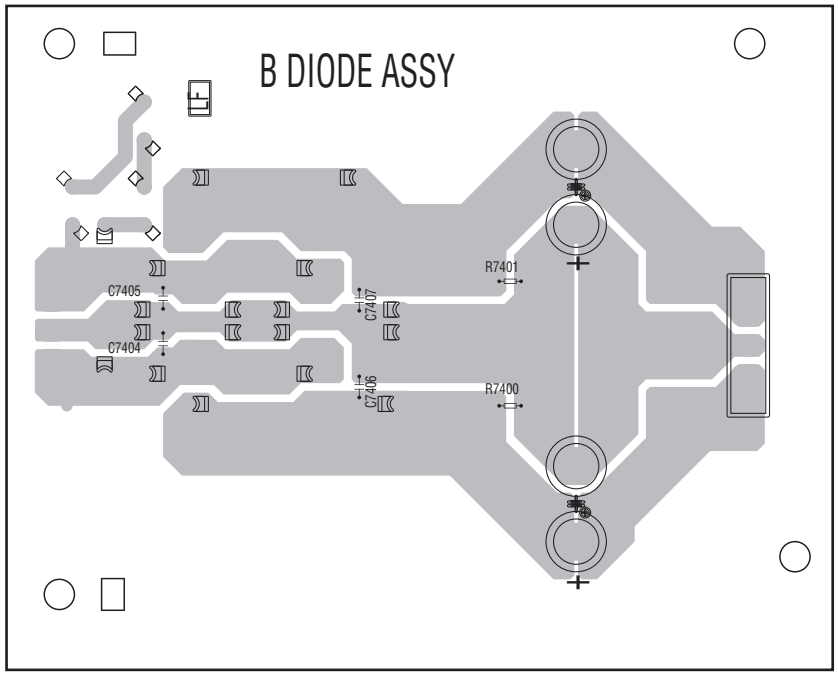
SIDE B

X B_REG ASSY



(ANP7704-B)

Y B_DIODE ASSY



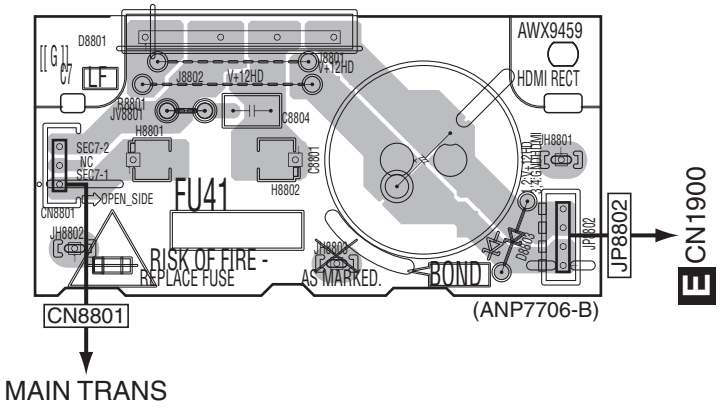
(ANP7704-B)

11.16 HDMI RECT, H GUARD, DIGITAL_BRIDGE AND ZOUT ASSYS

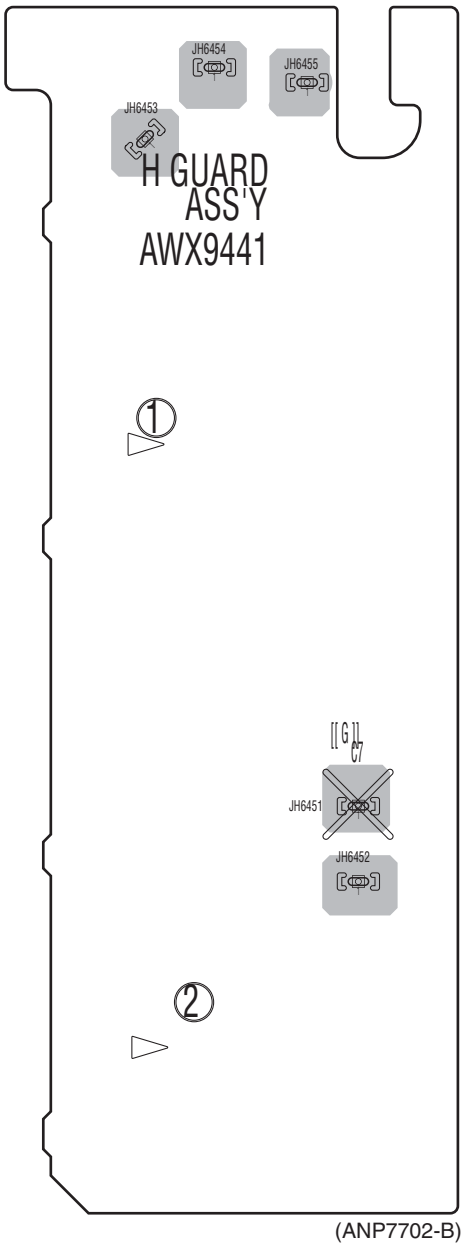
SIDE A

SIDE A

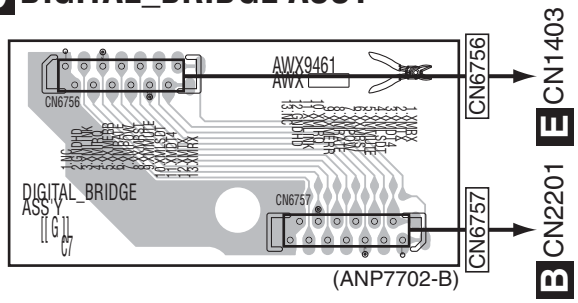
Z HDMI RECT ASSY



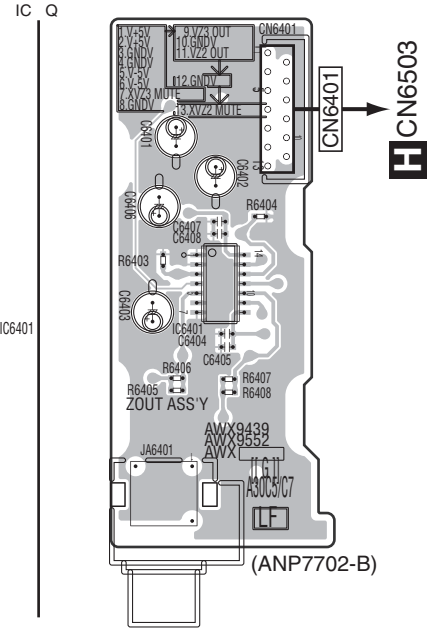
AA H GUARD ASSY



AB DIGITAL_BRIDGE ASSY



AC ZOUT ASSY



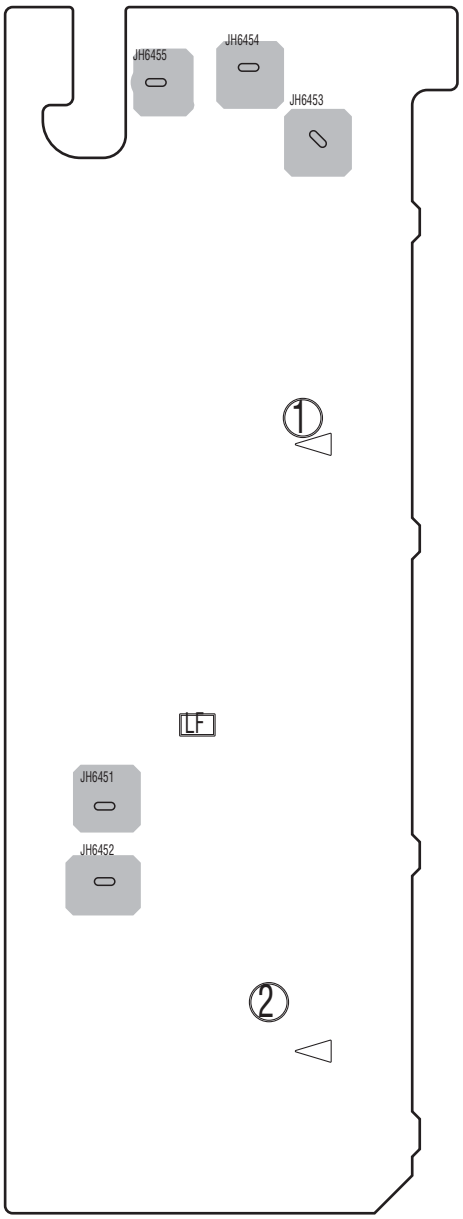
Z AA AB AC

Z AA AB AC

SIDE B

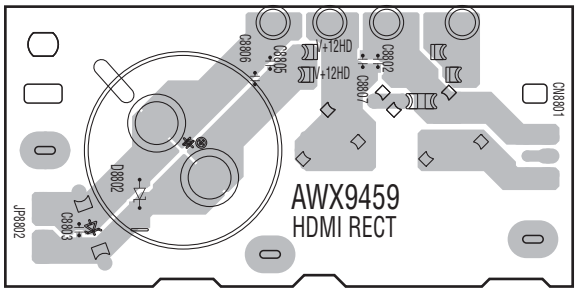
SIDE B

AA H GUARD ASSY



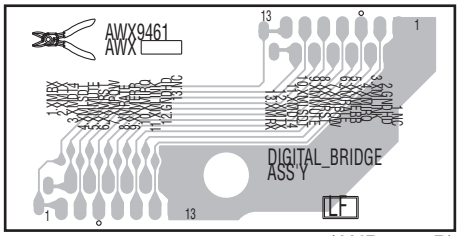
(ANP7702-B)

Z HDMI RECT ASSY



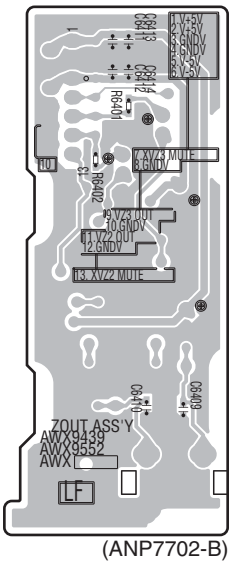
(ANP7706-B)

AB DIGITAL_BRIDGE ASSY



(ANP7702-B)

AC ZOUT ASSY



(ANP7702-B)

Z AA AB AC

Z AA AB AC

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

560 Ω	→	*56 × 10^1*	→	*561* ····· *RD1/4PU 5 6 1 J*
47 kΩ	→	*47 × 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).

5.62 kΩ	→	*562 × 10^1*	→	*5621* ····· *RN1/4PC 5 6 2 1 F*

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

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

IC 301 (A, 91, 111) IC NJM2068V

LIST OF ASSEMBLIES

Mark	No. Description	Part No.
	1..ICEPOWER AMP ASSY (SC-27/CUXJCA)	AWH7022
	1..ICEPOWER AMP ASSY (SC-25/CUXJCA & SC-9540/CUXJCA)	AWH7019
NSP	1..COMPOSITE_ICE ASSY	AWM8143
	2..PRE_BRIDGE ASSY	AWX9440
	2..COMPOSITE_S ASSY	AWX9443
	2..ICE_BUFFER ASSY	AWX9444
	2..ICE SHIELD ASSY	AWX9445
NSP	1..PRIM_DISPLAY ASSY (SC-27/CUXJCA)	AWM8145
NSP	1..PRIM_DISPLAY ASSY (SC-25/CUXJCA)	AWM8150
NSP	1..PRIM_DISPLAY ASSY (SC-9540/CUXJCA)	AWM8171
	2..DISPLAY ASSY (SC-27/CUXJCA)	AWX9454
	2..DISPLAY ASSY (SC-25/CUXJCA)	AWX9481
	2..DISPLAY ASSY (SC-9540/CUXJCA)	AWX9528
	2..VOL ASSY	AWX9455
	2..POWER SW ASSY	AWX9456
	2..V-BRIDGE ASSY	AWX9457
	2..PRIMARY ASSY	AWX9458
	2..HDMI RECT ASSY	AWX9459
NSP	1..DIGITAL AUDIO ASSY (SC-27/CUXJCA)	AWP7070
NSP	1..DIGITAL AUDIO ASSY (SC-25/CUXJCA & SC-9540/CUXJCA)	AWP7072
	2..DSP ASSY (SC-27/CUXJCA)	AWX9429
	2..DSP ASSY (SC-25/CUXJCA & SC-9540/CUXJCA)	AWX9467
	2..ICE INTERFACE ASSY	AWX9430
NSP	1..COMPONENT_MIC ASSY (SC-27/CUXJCA)	AWQ7069
NSP	1..COMPONENT_MIC ASSY (SC-25/CUXJCA & SC-9540/CUXJCA)	AWQ7071
	2..COMPONENT ASSY (SC-27/CUXJCA)	AWX9437
	2..COMPONENT ASSY (SC-25/CUXJCA & SC-9540/CUXJCA)	AWX9490
	2..MIC HP ASSY	AWX9438
	2..ZOUT ASSY	AWX9439
	2..H GUARD ASSY	AWX9441
	2..DIGITAL_BRIDGE ASSY	AWX9461
NSP	1..AUDIO_232C ASSY	AWR7074
	2..AUDIO ASSY	AWX9434
	2..232C_CONTROL ASSY	AWX9435
	2..PRIMARY GUARD ASSY	AWX9436
NSP	1..INTERFACE_REG ASSY	AWR7078
	2..INTERFACE ASSY	AWX9447
	2..ICE_REG ASSY	AWX9448
	2..B_REG ASSY	AWX9450
	2..B_DIODE ASSY	AWX9451
NSP	1..FBRIDGE_REG ASSY	AWR7079
	2..REG ASSY	AWX9452
	2..FRONT BRIDGE ASSY	AWX9453
	1..DIGITAL MAIN ASSY	AWX9463
	1..FRONT-HDMI ASSY	AWX9497
	1..FM/AM TUNER UNIT	AXX7267

CONTRAST OF PCB ASSEMBLIES

G COMPONENT ASSY

AWX9437 and AWX9490 are constructed the same except for the following:

Mark	Symbol and Description	AWX9437	AWX9490
	IC6002,IC6004	TC74LVX4052FT	Not used
	IC6008	NJM2581M	Not used
	JA6003	AKB7204	Not used
	JA6005	Not used	AKB7203
	R6043-R6045	RS1/10SR75R0F	Not used
	R6108	RS1/10SR103J	Not used
	C6055-C6057	CEAT101M10	Not used

Mark	Symbol and Description	AWX9437	AWX9490
	C6131-C6136	CKSRYB103K50	Not used

K DISPLAY ASSY

AWX9454, AWX9481 and AWX9528 are constructed the same except for the following:

Mark	Symbol and Description	AWX9454	AWX9481	AWX9528
	Q8005,Q8007	LTC124EUB	Not used	LTC124EUB
	D8009,D8013	SLR343BC4T(JKLM)	Not used	SLR343BC4T(JKLM)
	D8015	Not used	SLR343BC4T(JKLM)	Not used
	D8011	SLR343WBCT(MNPQ)	Not used	SLR343WBCT(MNPQ)
	R8022,R8024	RS1/10SR151J	Not used	RS1/10SR151J
	R8023	RS1/10SR561J	RS1/10SR151J	RS1/10SR561J
	R8025	RS1/10SR101J	Not used	RS1/10SR101J
	R8026	Not used	RS1/10SR101J	Not used
	R8279	Not used	RS1/10SR473J	Not used
	R8280	RS1/10SR473J	Not used	RS1/10SR473J
	R8281	Not used	RS1/10SR683J	Not used
	R8282	RS1/10SR473J	RS1/10SR223J	RS1/10SR473J
	C8005,C8007	CCSRCH101J50	Not used	CCSRCH101J50

Q ICEPOWER AMP ASSY

AWH7022 and AWH7019 are constructed the same except for the following:

Mark	Symbol and Description	AWH7022	AWH7019
	JA4101	AKE7150	AKE7142
	JA4301,JA4501	AKE7149	AKE7141

PCB PARTS LIST FOR SC-27/CUXJCA UNLESS OTHERWISE NOTED

Mark	No.	Description	Part No.

A AUDIO ASSY

SEMICONDUCTORS

	IC	5001,5282,5302,5401	NJM4565MD
	IC	5201	BD3473KS2
	IC	5221	BD3814FV
	IC	5301	TC4066BFN
	Q	5241,5251,5431	IMX25
	Q	5301	LTC124EUB
	Q	5302	LTA124EUB
	Q	5401,5402	2SK208
	Q	5451	UMD2N
	Q	5453	LTC114TUB
⚠	Q	5501	2SD1858X
⚠	Q	5502	2SB1237X
⚠	Q	5601	2SD1664
	D	5201,5301,5302	1SS302
	D	5401,5402,5451,5452	1SS352
	D	5501,5502	HZU7R5(B2)
	D	5602	UDZS10(B)

MISCELLANEOUS

	L	5651 CHIP SOLID INDUCTOR	QTL1013
	JA	5001-5003 PIN JACK(4P)	XKB3017
	JA	5005-5009 PIN JACK(4P)	XKB3017
	RY	5451 RELAY	VSR1017
	CN	5002 CONNECTOR	9604S-19C
	CN	5003 CONNECTOR	9604S-21C
	CN	5004,5007 CONNECTOR	9607S-09F
	CN	5005 CONNECTOR	9607S-17F
	CN	5006 21P SOCKET	XKP3081
	CN	5008 CONNECTOR	9607S-11F
	JH	5001 PCB BINDER	VEF1040
	JP	5001 5P HOUSING ASSY	ADX7717

RESISTORS

	R	5413,5414	RD1/4MUF330J
	Other Resistors		RS1/10SR###J

CAPACITORS

	C	5003,5004,5017,5018	CEAK100M50
	C	5007,5008,5411,5412	CEAK470M25
	C	5011,5012	CKSRYB822K50
	C	5013-5016	CKSRYB122K50
	C	5019,5020,5231,5233	CEAK101M16
	C	5021,5022,5232,5234	CKSRYB104K16
	C	5037,5038,5055,5056	CEAK220M50
	C	5039,5040,5435,5436	CCSRCH100D50
	C	5045,5046,5115,5116	CEAK100M50
	C	5075,5076,5085,5086	CEAK220M50
	C	5095,5096,5105,5106	CEAK220M50
	C	5125,5126,5155,5156	CEAK220M50
	C	5165,5166,5175,5176	CEAK220M50
	C	5185,5186,5207,5208	CEAK220M50
	C	5201,5203,5613	CCSRCH331J50
	C	5202,5204	ACH1479
	C	5205,5206,5235,5236	CCSRCH101J50
	C	5209,5210	CFHXSQ103J16
	C	5221,5222,5225,5226	CEAK100M50

Mark	No.	Description	Part No.
	C	5223,5224,5227,5228	CEAT2R2M50
	C	5241,5242,5251,5252	CCSRCH471J50
	C	5271-5278,5290,5503	CEAK100M50
	C	5282,5303,5304,5652	CCSRCH101J50
	C	5285,5286,5301,5302	CKSRYB103K50
	C	5295,5296,5356,5357	CCSRCH102J50
	C	5305,5306,5421,5423	CKSRYB103K50
	C	5307,5308	ACH7196
	C	5401,5402,5419,5420	CEAT1R0M50
	C	5403,5404	CCSRCH221J50
	C	5409,5410	CEAT471M16
	C	5422,5424	CEAK470M25
	C	5431,5432,5555,5557	CKSRYB103K50
	C	5451,5603,5606	CEAK101M16
	C	5501,5502	CEAK2R2M50
	C	5504	CEAK100M50
	C	5508,5510,5511,5515	CCSRCH102J50
	C	5516,5611	CCSRCH102J50
	C	5601,5605,5705,5721	CKSRYB103K50
	C	5602,5654,5708,5710	CKSRYB104K16
	C	5607,5621,5622	CCSRCH100D50
	C	5659,5660	CCSRCH101J50
	C	5701,5703,5709,5711	CCSRCH471J50
	C	5702,5704	CKSRYB104K50
	C	5714,5718	CKSRYB104K16
	C	5715,5719	CCSRCH471J50
	C	5723	CKSRYB103K50

B DSP ASSY (SC-27/CUXJCA)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC	2001	AK4118EQ
	IC	2002	TC74VHCT125AFTS1
	IC	2003-2006,2011,2403	TC74LCX157FTS1
	IC	2007,2009,2503	TC7SH08FUS1
	IC	2010,2406,2502,2606	TC74VHC08FTS1
	IC	2012,2013,2202	TC74VHC125FTS1
⚠	IC	2014	NJM2880U1-33
⚠	IC	2015,2983	NJM2845DL1-05
	IC	2201	BU9450KV
⚠	IC	2203	AAT4614AIGU-2
	IC	2301	DSPA56720AG
	IC	2302	AYW7275
	IC	2303	K4S641632N-LC60
	IC	2304,2305	TC74LCX573FTS1
	IC	2306,2608	TC7SH32FUS1
⚠	IC	2307	NJM2846DL3-33
⚠	IC	2308	PQ1LAX95MSPQ
⚠	IC	2309	NJM2846DL3-25
⚠	IC	2310	RP131H101D
	IC	2401	DSPC56371AF180
	IC	2404,2405,2505	TC74LCX08FTS1
⚠	IC	2501	NJM2872BF33
	IC	2506,2609	TC74VHC126FTS1
	IC	2507,2509	TC7WH157FU
	IC	2508	IDT6V60008DCG
	IC	2601-2605	TC4094BFN
	IC	2607	TC74VHC04FTS1
	IC	2901,2902,3401	NJM4565MD
	IC	2951	PCM1804DB
⚠	IC	2981	NJM2391DL1-33
⚠	IC	2982	NJM2885DL1-33
	IC	3001,3101,3201,3301	RNB4580F
	IC	3051,3151,3251,3351	SRC4190IDB
	IC	3052,3152,3252,3352	WM8740SEDS
	IC	3053,3153,3253,3353	TC7WH125FU
	IC	3451	AK4387ET
	D	2201,2202	HZU5R6(B2)
⚠	D	2701-2704	1SR154-400
	D	2951,2952	1SS301
	D	2953,2954	DAP202U

MISCELLANEOUS

	L	2004-2011 CHIP SOLID INDUCTOR	QTL1013
	L	2013-2017 CHIP SOLID INDUCTOR	QTL1013
	L	2201 CHIP SOLID INDUCTOR	ATL7002
	L	2202,2203 CHIP SOLID INDUCTOR	QTL1013
	L	2301 CHIP SOLID INDUCTOR	QTL1013
	L	2303-2308 CHIP SOLID INDUCTOR	QTL1013
	L	2309 INDUCTOR	CTF1473
	L	2401-2403 CHIP SOLID INDUCTOR	QTL1013
	L	2405-2408 CHIP SOLID INDUCTOR	QTL1013
	L	2501-2504 CHIP SOLID INDUCTOR	QTL1013
	L	2506-2508 CHIP SOLID INDUCTOR	QTL1013
	L	2510,3452,3453 INDUCTOR	CTF1379
	L	2511 CHIP SOLID INDUCTOR	QTL1013
	L	2601-2603 CHIP SOLID INDUCTOR	QTL1013
	L	2951,2952 CHIP SOLID INDUCTOR	QTL1013
	L	3051-3054 CHIP SOLID INDUCTOR	QTL1013
	L	3081 CHIP SOLID INDUCTOR	QTL1013
	L	3151-3154 CHIP SOLID INDUCTOR	QTL1013
	L	3181 CHIP SOLID INDUCTOR	QTL1013
	L	3251-3254 CHIP SOLID INDUCTOR	QTL1013
	L	3281 CHIP SOLID INDUCTOR	QTL1013
	L	3351-3354 CHIP SOLID INDUCTOR	QTL1013
	L	3381,3451 CHIP SOLID INDUCTOR	QTL1013
	JA	2001 PIN JACK(3P)	AKB7205
	JA	2002-2005 OPT. LINK IN	AKS7001
	JA	2006,2007 OPT. LINK OUT	AKS7002
	JA	2201 4P SOCKET	AKP7201
	KN	2201,2601 SCREW PLATE	VNE1948
	KN	2301 WRAPPING TERMINAL	VNF1084
	X	2201 CRYSTAL (45.1584 MHz)	ASS7095
	X	2501 CRYSTAL OSCILLATOR	ASS7102
	X	2502 CRYSTAL OSCILLATOR	ASS7101
	CN	2001,2902 PLUG	CKS1764
	CN	2002 CONNECTOR	CKS1754
	CN	2003 CONNECTOR	CKS3815
	CN	2201 13P SOCKET	XKP3077
	CN	2601 CONNECTOR	VKN2045
	CN	2602 7P SOCKET	XKP3074
	CN	2901 PLUG	CKS1758
	JH	2601 PCB BINDER	VEF1040

RESISTORS

	R	2001,2003,2005	RS1/10SR750J
	R	2002,2004,2006	RS1/10SR220J
	R	2028	RS1/16SS1002F
	R	2212,2220,2329,2330	RS1/10SR101J

Mark	No.	Description	Part No.
	R	2213	RS1/10SR104J
	R	2233,2312,2348,2402	RAB4CQ470J
	R	2311,2905,2906,2909	RS1/10SR103J
	R	2317-2319,2321,2322	RAB4CQ220J
	R	2333,2424,3455	RAB4CQ101J
	R	2349,2403	RAB4CQ103J
	R	2362,2363,2366,2367	RAB4CQ221J
	R	2364,2365,2368,2369	RAB4CQ220J
	R	2372	RS1/16SS1000F
	R	2373	RS1/16SS1202F
	R	2374,2465,2466	RS1/8SQ0R0J
	R	2605,2607,2609,2610	RS1/10SR473J
	R	2611,3401,3402	RS1/10SR223J
	R	2612-2614	RS1/10SR473J
	R	2901-2904	RS1/10SR220J
	R	2907,2908,2911,2912	RS1/10SR682J
	R	2910	RS1/10SR103J
	R	2913-2918,3108,3116	RS1/10SR392J
	R	2919,2920	RS1/10SR822J
	R	2921,2922	RS1/10SR911J
	R	2982,2985,3017,3018	RS1/10SR0R0J
	R	3001,3002,3009,3010	RS1/10SR181J
	R	3003-3006,3011-3014	RS1/10SR222J
	R	3007,3008,3015,3016	RS1/10SR202J
	R	3021,3022,3119,3120	RS1/10SR221J
	R	3023-3026,3051	RS1/10SR0R0J
	R	3101,3109,3201,3202	RS1/10SR681J
	R	3102,3110	RS1/10SR181J
	R	3103-3106,3203-3206	RS1/10SR222J
	R	3107,3112,3114,3115	RS1/10SR122J
	R	3111,3113,3211-3214	RS1/10SR272J
	R	3117,3118,3217,3218	RS1/10SR474J
	R	3121-3124,3151	RS1/10SR0R0J
	R	3207,3208,3215,3216	RS1/10SR122J
	R	3209,3210,3301,3302	RS1/10SR681J
	R	3219,3220,3319,3320	RS1/10SR221J
	R	3221-3223,3234,3251	RS1/10SR0R0J
	R	3303-3306	RS1/10SR222J
	R	3307,3308,3315,3316	RS1/10SR122J
	R	3309,3310	RS1/10SR681J
	R	3311-3314	RS1/10SR272J
	R	3317,3318,3413,3414	RS1/10SR474J
	R	3321-3324,3351	RS1/10SR0R0J
	R	3403,3404	RS1/10SR302J
	R	3405,3406,3409,3410	RS1/10SR332J
	R	3407,3408	RS1/10SR392J
	R	3411,3412	RS1/10SR221J
	R	3415-3418,3456	RS1/10SR0R0J
	R	3458	RS1/10SR4R7J
	Other Resistors		RS1/16SS###J

CAPACITORS

	C	2002,2005,2008,2954	CKSRYB103K50
	C	2003,2006,2009-2015	CKSRYB104K16
	C	2016,2019,2022,2028	CCSSCH471J16
	C	2017,2020,2023,2029	CKSSYB104K10
	C	2018,2021,2024	CEHAZL101M10
	C	2026,2065-2067	CKSRYB474K16
	C	2030,2427	ACH7272
	C	2031,2033,2035,2037	CCSSCH471J16
	C	2032,2034,2036,2038	CKSSYB104K10
	C	2039,2044,2046,2048	CCSSCH471J16
	C	2040,2045,2047,2049	CKSSYB104K10
	C	2050,2052,2218,2301	CCSSCH471J16
	C	2051,2053,2056	CKSSYB104K10
	C	2054,2313,2355,2358	CCSSCH101J50
	C	2055,2377	ACH7273
	C	2057,2060,2382,2992	CKSSYB104K16
	C	2058,2061,2338,2384	CKSQYB225K10
	C	2059,2339,2372,2505	CEHAZL221M10
	C	2062-2064,2960,2981	CEHAZL101M10
	C	2201,3060,3068,3160	CKSRYB105K10
	C	2202,2207,2913,2914	CCSRCH101J50
	C	2203,2205	CEAK101M16
	C	2204,2206,2526,2528	CKSRYB104K16
	C	2208-2215,2219,2302	CKSSYB104K10
	C	2216,2217	CCSSCH8R0D50
	C	2303,2305,2307,2309	CCSSCH471J16
	C	2304,2306,2308,2310	CKSSYB104K10
	C	2311,2315,2317,2319	CCSSCH471J16
	C	2312,2314,2316,2318	CKSSYB104K10
	C	2320,2322,2324,2326	CKSSYB104K10
	C	2321,2323,2325,2327	CCSSCH471J16
	C	2328,2330,2332,2334	CKSSYB104K10
	C	2329,2331,2333,2335	CCSSCH471J16
	C	2336,2345,2352,2354	CKSSYB104K10
	C	2337,2342	CKSRYB474K10
	C	2341	VCH1234
	C	2343,2383,2508,2511	CKSQYB475K10
	C	2344,2351,2353,2401	CCSSCH471J16
	C	2346,2417	CKSSYB103K16
	C	2356,2357,2359,2374	CKSSYB104K10
	C	2360,2362,2364,2366	CCSSCH102J50
	C	2361,2363,2365,2367	CKSSYB105K6R3
	C	2368,2370	CCSSCH102J50
	C	2369,2371	CKSSYB105K6R3
	C	2373,2375,2388	CCSSCH101J50
	C	2376,2378-2381,2402	CKSSYB104K10
	C	2385,2504,2991,2993	CKSQYB225K10
	C	2387	ACH7314
	C	2389,2911,2912,2915	CFHXSQ103J16
	C	2403,2405,2407,2409	CCSSCH471J16
	C	2404,2406,2408,2410	CKSSYB104K10
	C	2411,2413,2415,2418	CCSSCH471J16
	C	2412,2414,2416,2419	CKSSYB104K10
	C	2420,2422,2424,2430	CCSSCH471J16
	C	2421,2423,2425,2431	CKSSYB104K10
	C	2426,3055,3063,3155	ACH7268
	C	2432,2434,2436,2506	CCSSCH471J16
	C	2433,2435,2437,2501	CKSSYB104K10
	C	2502,2956,2957,3061	ACH7211
	C	2503,2507,2510,2513	CKSSYB104K10
	C	2509,2512,2514,2520	CCSSCH471J16
	C	2515,2519,2521,2524	CKSSYB104K10
	C	2518,3065,3165,3265	CEHAZL221M10
	C	2522,2523,2530,2612	CCSSCH471J16
	C	2525,2527,2982,3001	CCSRCH102J50
	C	2529	CEAK4R7M50
	C	2531,2601-2608,2614	CKSSYB104K10

Mark	No.	Description	Part No.
	C	2533,2534,3453,3454	CEAK470M25
	C	2613,3082,3182,3282	CCSSCH471J16
	C	2622-2640,2642	CCSSCH101J50
	C	2901,2902,2928,2953	CKSRYB104K16
	C	2903,2904	DCH1201
	C	2905-2908,3109,3110	ACH7196
	C	2916,2996,2997,3007	CFHXSQ103J16
	C	2929,2952,2984,2987	CEHAZL101M25
	C	2955,2958,2961-2963	CKSRYB104K16
	C	2959,2964,3059,3070	CKSRYB103K50
	C	2965,3052,3071,3152	CCSRCH471J50
	C	2966,3053,3056,3058	CKSRYB104K16
	C	2983,3081,3181,3281	CKSSYB104K10
	C	2990,2995,3051,3151	CEHAZL101M10
	C	2994	CKSSYB104K16
	C	3002,3057,3075,3101	CCSRCH102J50
	C	3003-3006,3103,3105	CCSRCH331J50
	C	3008,3107,3108,3207	CFHXSQ103J16
	C	3013,3014,3113,3114	CFHXSQ472J16
	C	3062,3064,3066,3072	CKSRYB104K16
	C	3067,3161,3167,3261	ACH7211
	C	3102,3157,3175,3201	CCSRCH102J50
	C	3104,3106	CCSRCH271J50
	C	3153,3156,3158,3162	CKSRYB104K16
	C	3159,3170,3259,3270	CKSRYB103K50
	C	3163,3255,3263,3355	ACH7268
	C	3164,3166,3172,3253	CKSRYB104K16
	C	3168,3260,3268,3360	CKSRYB105K10
	C	3171,3252,3271,3352	CCSRCH471J50
	C	3202,3257,3275,3301	CCSRCH102J50
	C	3203-3206,3303-3306	CCSRCH331J50
	C	3208,3307,3308	CFHXSQ103J16
	C	3209,3210,3309,3310	ACH7196
	C	3213,3214,3313,3314	CFHXSQ472J16
	C	3251,3351	CEHAZL101M10
	C	3256,3258,3262,3264	CKSRYB104K16
	C	3266,3272,3353,3356	CKSRYB104K16
	C	3267,3361,3367	ACH7211
	C	3302,3357,3375	CCSRCH102J50
	C	3358,3362,3364,3366	CKSRYB104K16
	C	3359,3370,3456,3458	CKSRYB103K50
	C	3363	ACH7268
	C	3365	CEHAZL221M10
	C	3368	CKSRYB105K10
	C	3371,3405,3406,3459	CCSRCH471J50
	C	3372,3452,3455,3457	CKSRYB104K16
	C	3381,3462	CKSSYB104K10
	C	3382,3461,3463,3464	CCSSCH471J16
	C	3401,3402	CEAT220M50
	C	3403,3404	CCSRCH391J50
	C	3407,3408	CKSRYB104K25
	C	3409,3410	CEAT100M50
	C	3460	CKSRYB104K16

B DSP ASSY (SC-25/CUXJCA & SC-9540/CUXJCA)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC	2001	AK4118EQ
	IC	2002	TC74VHCT125AFTS1
	IC	2003-2006,2011,2403	TC74LCX157FTS1
	IC	2007,2009,2503	TC7SH08FUS1
	IC	2010,2406,2502,2606	TC74VHC08FTS1
	IC	2012,2013,2202	TC74VHC125FTS1
⚠	IC	2014	NJM2880U1-33
⚠	IC	2015,2983	NJM2845DL1-05
	IC	2201	BU9450KV
⚠	IC	2203	AAT4614AIGU-2
	IC	2301	DSPA56720AG
	IC	2302	AYW7275
	IC	2303	K4S641632N-LC60
	IC	2304,2305	TC74LCX573FTS1
	IC	2306,2608	TC7SH32FUS1
⚠	IC	2307	NJM2846DL3-33
⚠	IC	2308	PQ1LAX95MSPQ
⚠	IC	2309	NJM2846DL3-25
⚠	IC	2310	RP131H101D
	IC	2401	DSPC56371AF180
	IC	2404,2505	TC74LCX08FTS1
⚠	IC	2501	NJM2872BF33
	IC	2506,2609	TC74VHC126FTS1
	IC	2508	IDT6V60008DCG
	IC	2509	TC7WH157FU
	IC	2601-2605	TC4094BFN
	IC	2607	TC74VHC04FTS1
	IC	2901,2902,3401	NJM4565MD
	IC	2951	PCM1804DB
⚠	IC	2981	NJM2391DL1-33
	IC	3001,3101,3201,3301	RNB4580F
	IC	3052,3152,3252,3352	WM8740SEDS
	IC	3451	AK4387ET
	D	2201,2202	HZU5R6(B2)
⚠	D	2701-2704	1SR154-400
	D	2951,2952	1SS301
	D	2953,2954	DAP202U

MISCELLANEOUS

	L	2004-2011 CHIP SOLID INDUCTOR	QTL1013
	L	2013-2017 CHIP SOLID INDUCTOR	QTL1013
	L	2201 CHIP SOLID INDUCTOR	ATL7002
	L	2202,2203 CHIP SOLID INDUCTOR	QTL1013
	L	2301 CHIP SOLID INDUCTOR	QTL1013
	L	2303-2308 CHIP SOLID INDUCTOR	QTL1013
	L	2309 INDUCTOR	CTF1473
	L	2401-2403 CHIP SOLID INDUCTOR	QTL1013
	L	2405,2406 CHIP SOLID INDUCTOR	QTL1013
	L	2408 CHIP SOLID INDUCTOR	QTL1013
	L	2501-2504 CHIP SOLID INDUCTOR	QTL1013
	L	2506,2507 CHIP SOLID INDUCTOR	QTL1013
	L	2510,3452,3453 INDUCTOR	CTF1379
	L	2511 CHIP SOLID INDUCTOR	QTL1013
	L	2601-2603 CHIP SOLID INDUCTOR	QTL1013
	L	2951,2952 CHIP SOLID INDUCTOR	QTL1013
	L	3053,3054 CHIP SOLID INDUCTOR	QTL1013
	L	3153,3154 CHIP SOLID INDUCTOR	QTL1013
	L	3253,3254 CHIP SOLID INDUCTOR	QTL1013
	L	3353,3354 CHIP SOLID INDUCTOR	QTL1013
	L	3451 CHIP SOLID INDUCTOR	QTL1013
	JA	2002-2005 OPT. LINK IN	AKS7001

Mark	No.	Description	Part No.
	JA 2006,2007	OPT. LINK OUT	AKS7002
	JA 2008	PIN JACK(2P)	AKB7173
	JA 2201	4P SOCKET	AKP7201
	KN 2201,2601	SCREW PLATE	VNE1948
	KN 2301	WRAPPING TERMINAL	VNF1084
	X 2201	CRYSTAL (45.1584 MHz)	ASS7095
	X 2501	CRYSTAL OSCILLATOR	ASS7102
	X 2502	CRYSTAL OSCILLATOR	ASS7101
	CN 2001,2902	PLUG	CKS1764
	CN 2002	CONNECTOR	CKS1754
	CN 2003	CONNECTOR	CKS3815
	CN 2201	13P SOCKET	XKP3077
	CN 2601	CONNECTOR	VKN2045
	CN 2602	7P SOCKET	XKP3074
	CN 2901	PLUG	CKS1758
	JH 2601	PCB BINDER	VEF1040

RESISTORS

	R 2001,2003		RS1/10SR750J
	R 2002,2004,2901-2904		RS1/10SR220J
	R 2028		RS1/16SS1002F
	R 2212,2220,2329,2330		RS1/10SR101J
	R 2213		RS1/10SR104J
	R 2233,2312,2348,2402		RAB4CQ470J
	R 2311,2905,2906,2909		RS1/10SR103J
	R 2317-2319,2321,2322		RAB4CQ220J
	R 2333,2424,3455		RAB4CQ101J
	R 2349,2403		RAB4CQ103J
	R 2362,2363,2366,2367		RAB4CQ221J
	R 2364,2365,2368,2369		RAB4CQ220J
	R 2372		RS1/16SS1000F
	R 2373		RS1/16SS1202F
	R 2374,2465,2466		RS1/8SQ0R0J
	R 2607,2609,2610		RS1/10SR473J
	R 2611,3401,3402		RS1/10SR223J
	R 2612-2614		RS1/10SR473J
	R 2907,2908,2911,2912		RS1/10SR682J
	R 2910		RS1/10SR103J
	R 2913-2918,3108,3116		RS1/10SR392J
	R 2919,2920		RS1/10SR822J
	R 2921,2922		RS1/10SR911J
	R 2982,2985,3017,3018		RS1/10SR0R0J
	R 3001,3002,3009,3010		RS1/10SR181J
	R 3003-3006,3011-3014		RS1/10SR222J
	R 3007,3008,3015,3016		RS1/10SR202J
	R 3021,3022,3119,3120		RS1/10SR221J
	R 3023-3026,3065,3066		RS1/10SR0R0J
	R 3080,3121-3124,3165		RS1/10SR0R0J
	R 3101,3109,3201,3202		RS1/10SR681J
	R 3102,3110		RS1/10SR181J
	R 3103-3106,3203-3206		RS1/10SR222J
	R 3107,3112,3114,3115		RS1/10SR122J
	R 3111,3113,3211-3214		RS1/10SR272J
	R 3117,3118,3217,3218		RS1/10SR474J
	R 3166,3180,3221-3223		RS1/10SR0R0J
	R 3207,3208,3215,3216		RS1/10SR122J
	R 3209,3210,3301,3302		RS1/10SR681J
	R 3219,3220,3319,3320		RS1/10SR221J
	R 3234,3265,3266,3280		RS1/10SR0R0J
	R 3303-3306		RS1/10SR222J

Mark	No.	Description	Part No.
	R 3307,3308,3315,3316		RS1/10SR122J
	R 3309,3310		RS1/10SR681J
	R 3311-3314		RS1/10SR272J
	R 3317,3318,3413,3414		RS1/10SR474J
	R 3321-3324,3365,3366		RS1/10SR0R0J
	R 3380,3415-3418,3456		RS1/10SR0R0J
	R 3403,3404		RS1/10SR302J
	R 3405,3406,3409,3410		RS1/10SR332J
	R 3407,3408		RS1/10SR392J
	R 3411,3412		RS1/10SR221J
	R 3458		RS1/10SR4R7J
	Other Resistors		RS1/16SS###J

CAPACITORS

	C 2002,2005,2954,2959		CKSRYB103K50
	C 2003,2006,2010-2015		CKSRYB104K16
	C 2016,2019,2022,2028		CCSSCH471J16
	C 2017,2020,2023,2027		CKSSYB104K10
	C 2018,2021,2024		CEHAZL101M10
	C 2026,2065,2066		CKSRYB474K16
	C 2029,2032,2034,2036		CKSSYB104K10
	C 2030,2427		ACH7272
	C 2031,2033,2035,2037		CCSSCH471J16
	C 2038,2040,2045,2047		CKSSYB104K10
	C 2039,2044,2046,2048		CCSSCH471J16
	C 2049,2051,2053,2056		CKSSYB104K10
	C 2050,2052,2218,2301		CCSSCH471J16
	C 2054,2313,2355,2358		CCSSCH101J50
	C 2055,2377		ACH7273
	C 2057,2060,2382,2994		CKSSYB104K16
	C 2058,2061,2338,2384		CKSQYB225K10
	C 2059,2339,2372,2505		CEHAZL221M10
	C 2062-2064,2960,2981		CEHAZL101M10
	C 2201,3060,3068,3160		CKSRYB105K10
	C 2202,2207,2913,2914		CCSRCH101J50
	C 2203,2205		CEAK101M16
	C 2204,2206,2526,2528		CKSRYB104K16
	C 2208-2215,2219,2302		CKSSYB104K10
	C 2216,2217		CCSSCH8R0D50
	C 2303,2305,2307,2309		CCSSCH471J16
	C 2304,2306,2308,2310		CKSSYB104K10
	C 2311,2315,2317,2319		CCSSCH471J16
	C 2312,2314,2316,2318		CKSSYB104K10
	C 2320,2322,2324,2326		CKSSYB104K10
	C 2321,2323,2325,2327		CCSSCH471J16
	C 2328,2330,2332,2334		CKSSYB104K10
	C 2329,2331,2333,2335		CCSSCH471J16
	C 2336,2345,2352,2354		CKSSYB104K10
	C 2337,2342		CKSRYB474K10
	C 2341		VCH1234
	C 2343,2383,2508,2511		CKSQYB475K10
	C 2344,2351,2353,2401		CCSSCH471J16
	C 2346,2417		CKSSYB103K16
	C 2356,2357,2359,2374		CKSSYB104K10
	C 2360,2362,2364,2366		CCSSCH102J50
	C 2361,2363,2365,2367		CKSSYB105K6R3
	C 2368,2370		CCSSCH102J50
	C 2369,2371		CKSSYB105K6R3
	C 2373,2375,2388		CCSSCH101J50
	C 2376,2378-2381,2402		CKSSYB104K10

Mark	No.	Description	Part No.
	C	2385,2504,2993	CKSQYB225K10
	C	2387	ACH7314
	C	2389	CFHXSQ103J16
	C	2403,2405,2407,2409	CCSSCH471J16
	C	2404,2406,2408,2410	CKSSYB104K10
	C	2411,2413,2415,2418	CCSSCH471J16
	C	2412,2414,2416,2419	CKSSYB104K10
	C	2420,2422,2424,2430	CCSSCH471J16
	C	2421,2423,2425,2431	CKSSYB104K10
	C	2426,3063,3163,3263	ACH7268
	C	2432,2436,2506,2509	CCSSCH471J16
	C	2433,2437,2501,2503	CKSSYB104K10
	C	2502,2956,2957,3061	ACH7211
	C	2507,2510,2513,2515	CKSSYB104K10
	C	2512,2514,2520,2522	CCSSCH471J16
	C	2518,3065,3165,3265	CEHAZL221M10
	C	2519,2521,2531	CKSSYB104K10
	C	2525,2527,2982,3001	CCSRCH102J50
	C	2529	CEAK4R7M50
	C	2530,2612,2613,3461	CCSSCH471J16
	C	2533,2534,3453,3454	CEAK470M25
	C	2601-2608,2614,2983	CKSSYB104K10
	C	2622-2640,2642	CCSSCH101J50
	C	2901,2902,2928,2953	CKSRYB104K16
	C	2903,2904	DCH1201
	C	2905-2908,3109,3110	ACH7196
	C	2911,2912,2915,2916	CKSQYB103K50
	C	2929,2952,2984,2987	CEHAZL101M25
	C	2955,2958,2961-2963	CKSRYB104K16
	C	2964,3059,3070,3159	CKSRYB103K50
	C	2965,3071,3171,3271	CCSRCH471J50
	C	2966,3058,3062,3064	CKSRYB104K16
	C	2985,2986,3407,3408	CKSRYB104K25
	C	2995	CEHAZL101M10
	C	3002,3101,3102,3201	CCSRCH102J50
	C	3003-3006,3103,3105	CCSRCH331J50
	C	3007,3008,3107,3108	CKSQYB103K50
	C	3011,3012,3111,3112	CKSRYB472K50
	C	3066,3072,3158,3162	CKSRYB104K16
	C	3067,3161,3167,3261	ACH7211
	C	3104,3106	CCSRCH271J50
	C	3164,3166,3172,3258	CKSRYB104K16
	C	3168,3260,3268,3360	CKSRYB105K10
	C	3170,3259,3270,3359	CKSRYB103K50
	C	3202,3301,3302	CCSRCH102J50
	C	3203-3206,3303-3306	CCSRCH331J50
	C	3207,3208,3307,3308	CKSQYB103K50
	C	3209,3210,3309,3310	ACH7196
	C	3211,3212,3311,3312	CKSRYB472K50
	C	3262,3264,3266,3272	CKSRYB104K16
	C	3267,3361,3367	ACH7211
	C	3358,3362,3364,3366	CKSRYB104K16
	C	3363	ACH7268
	C	3365	CEHAZL221M10
	C	3368	CKSRYB105K10
	C	3370,3456,3458	CKSRYB103K50
	C	3371,3405,3406,3459	CCSRCH471J50
	C	3372,3452,3455,3457	CKSRYB104K16
	C	3401,3402	CEAT220M50
	C	3403,3404	CCSRCH391J50
	C	3409,3410	CEAT100M50
	C	3460	CKSRYB104K16
	C	3462	CKSSYB104K10
	C	3463,3464	CCSSCH471J16

C FRONT-HDMI ASSY

SEMICONDUCTORS

Mark		No.	Description	Part No.
	IC	3551		CXB1443R
	IC	3552		TC7MB3257FK
	IC	3553		S-24CS02AFT
⚠	IC	3554		S-1132B33-U5
	Q	3551-3553		LTC114YUB
	D	3503,3504		UMZU6.2N
	D	3551		1SS301

MISCELLANEOUS

		No.	Description	Part No.
	L	3551,3565-3568	INDUCTOR	CTF1473
	L	3552	CHIP BEADS	ATL7010
	L	3561-3564	COIL	ATH7064
	L	3571-3576	FERRITE BEAD	CTF1528
	JA	3501	USB CONNECTOR	XKP3086
	JA	3551	HDMI CONNECTOR	AKP7224
	KN	3501,3551	WRAPPING TERMINAL	VNF1084
	KN	3552	WRAPPING TERMINAL	VNF1084
	CN	3501	CONNECTOR	AKM1276
	CN	3553	3P JUMPER CONNECTOR	52147-0310
	CN	3554	CONNECTOR	AKN7051

RESISTORS

		No.	Description	Part No.
	R	3501-3503,3513		RS1/10SR0R0J
	R	3511		RS1/10SR222J
	R	3564		RS1/16SS4701F
	R	3581-3584		RS1/10SR0R0J
	Other Resistors			RS1/16SS###J

CAPACITORS

		No.	Description	Part No.
	C	3502,3503		CKSRYB104K16
	C	3504		CEAK221M16
	C	3505		CCSRCH102J50
	C	3551,3565,3568,3569		CCSSCH102J50
	C	3552,3553,3562,3563		CKSSYB104K10
	C	3554,3555		CKSQYB104K25
	C	3561		CEVW101M16
	C	3566,3567,3570,3571		CKSSYB104K10
	C	3573,3574,3576,3578		CKSSYB104K10
	C	3577,3590,3592-3595		CCSSCH102J50
	C	3579,3580		CCSSCH101J50
	C	3589		CEAK101M16
	C	3591		CKSSYB104K10

D 232C_CONTROL ASSY

SEMICONDUCTORS

Mark		No.	Description	Part No.
	IC	5801		HIN202EIBNZ
	Q	5801		LSC4081UB
	Q	5832		LTA114TUB
	Q	5841		LSA1576UB
	Q	5842,5882		LTC124EUB
	Q	5881		2SA1366

Mark	No.	Description	Part No.
	D	5804,5841,5842	1SS352
	D	5821,5822	1SS357
	D	5831,5834	HZU5R1(B2)
	D	5832,5833	SIM-20STS1
	D	5843,5881,5883	1SS301
	D	5858	1SS302

MISCELLANEOUS

	L	5821-5823	CHIP SOLID INDUCTOR QTL1013
	L	5841-5843	CHIP SOLID INDUCTOR QTL1013
	JA	5801	9P D-SUB SOCKET AKP1213
	JA	5802-5806	JACK VKB1243
	JA	5807	SOCKET BKP1127
	KN	5801	SCREW PLATE VNE1948
	CN	5801	23P SOCKET XKP3082
	U	5801	REMOTE RECEIVER UNIT GP1UE284QKC1

RESISTORS

	All Resistors		RS1/10SR###J

CAPACITORS

	C	5802,5811,5828,5845	CKSRYB103K50
	C	5803	CCSRCH331J50
	C	5804,5805	CCSRCH101J50
	C	5807-5810	CKSRYB104K16
	C	5812	CEAT101M16
	C	5829	CEJQ101M16
	C	5830,5831,5892,5894	CCSRCH471J50
	C	5833,5834,5838-5840	CCSRCH100D50
	C	5852,5855,5891,5893	CKSRYB103K50
	C	5871,5872	CEAT220M50
	C	5895	CKSRYB103K50
	C	5896	CCSRCH471J50

E DIGITAL MAIN ASSY

SEMICONDUCTORS

	IC	402	TC74LCX245FTS1
	IC	403,404,409-411	TC74LCX541FTS1
	IC	405,408,1409,1804	TC7SZ125FU
	IC	407,1349,9003	TC7SH08FUS1
	IC	501	RTL8201CP-LF
	IC	551	K4S281632K-UC60
	IC	571	AYW7314
⚠	IC	601	NJM2846DL3-33
⚠	IC	602	NJM2846DL3-18
⚠	IC	603	NJM2886DL3-33
	IC	611,1401	TC74VHC126FTS1
	IC	800	UPD61283F1-407LU2A
	IC	801,802	NJM12904V
	IC	803,1302,1702,9351	TC7WHU04FU
	IC	1000,1001	K4H561638J-LCB3
	IC	1050	AYW7298
⚠	IC	1100,1101	S-1170B33UC-OTS
⚠	IC	1102	S-1170B25UC-OTK
⚠	IC	1104	MM1701WH
⚠	IC	1250,9001,9101	AAT4614AIGU-2
	IC	1251	TC7PAU04FU
	IC	1300	PE7008A
	IC	1301	341S2164
⚠	IC	1303	S-1132B25-U5
	IC	1304,1305	BU4094BCFV
	IC	1306,1403	TC74VHC125FTS1
	IC	1402,1407	TC74VHC08FTS1
	IC	1404	TC74VHC02FTS1
	IC	1406	TC74VHCT125AFTS1
	IC	1408,1451	TC74VHCT08AFTS1
	IC	1410	TC7WH08FU
	IC	1450	TC74VHCT541AFTS1
	IC	1501	SII9233ACTU
	IC	1563,1604	TC7WH157FU
	IC	1566	TC74VHC541FTS1
⚠	IC	1592	R1172H121B
	IC	1601	CXB1444R
	IC	1602	S-24CS02AFT
	IC	1603	TC7MB3257FK
	IC	1605	TC74VHC153FT
	IC	1701	ADV7181CBSTZ
	IC	1800	ABT1015
	IC	1801-1803,1805	TC74LCX541FTS1
	IC	1806	TC7SZ125FU
	IC	1807-1811	TC74VCX541FT
	IC	1813	TC7SA08FU
	IC	1814	TC7SZ00FU
⚠	IC	1900	TPS54350PWP
⚠	IC	1930	LTC3850EGN
⚠	IC	1970	LT3505EDD
⚠	IC	1971	S-1132B50-U5
	IC	9000,9100	SII9134CTU
	IC	9002	TC74VHC157FTS1
	Q	601	HN1C01FU
	Q	800,801,1150,1154	2SA1576A
	Q	1151,1155,1157,1997	2SC4081
	Q	1156,1200-1204,1250	2SA1576A
	Q	1251,1611,9001,9101	DTC114YUA
	Q	1300,1401-1404	DTA124EUA
	Q	1400	DTC114EUA
	Q	1405	2SA1576A
	Q	1612	HN1K02FU
⚠	Q	1900	RTQ045N03
⚠	Q	1930,1931	SP8K1
	Q	1998	2SC4081
	Q	1999	RN4903
	Q	9000,9100	UMB1N
	D	603,1402,1506,1509	1SS301
	D	1400	RB501V-40
	D	1512,1601	1SS301
	D	1930,1931,1970	RB160VA-40
	D	1971	RB160M-30
	D	1995	UDZS6R8(B)
	D	1996,1997	1SS352
	D	1998	DAP202U
	D	1999	UDZS5R6(B)
	D	9000,9100	UDZS5R1(B)

MISCELLANEOUS

	L	402-405,407-410	INDUCTOR CTF1473
	L	501,502	CHIP SOLID INDUCTOR QTL1013
	L	503,504	COIL VTH1056
	L	505,551	CHIP SOLID INDUCTOR QTL1013
	L	571,611	CHIP SOLID INDUCTOR QTL1013

Mark	No.	Description	Part No.
	L	704-707 CHIP FERRITE BEADS	ATF1211
	L	800 INDUCTOR	LCTC150K2125
A	L	801-805,808,809 EMI FILTER	DTL1106
	L	806 CHIP COIL	LCYA390J2520
	L	807 INDUCTOR	LCYA150J2520
	L	810,811 CHIP SOLID INDUCTOR	QTL1013
	L	1100,1302,1303 CHIP BEADS	ATL7010
	L	1150,1154,1156 INDUCTOR	ATL7035
	L	1151,1155,1157 INDUCTOR	ATL7033
	L	1200,1201 INDUCTOR	LCTC100K2125
	L	1202-1204 INDUCTOR	LCTC4R7K2125
	L	1250 COIL	ATH7079
	L	1251,1300 CHIP SOLID INDUCTOR	QTL1013
B	L	1301,1304 CHIP SOLID INDUCTOR	QTL1013
	L	1305,1390 CHIP SOLID INDUCTOR	QTL1013
	L	1501-1504,1611,1701 CHIP BEADS	ATL7010
	L	1505,1506 CHIP SOLID INDUCTOR	QTL1013
	L	1563,1566 CHIP SOLID INDUCTOR	QTL1013
	L	1669,1693,1694 INDUCTOR	CTF1473
	L	1702,1900,1902,1903 CHIP BEADS	ATL7010
	L	1703,1704 CHIP SOLID INDUCTOR	QTL1013
	L	1706 INDUCTOR	CTF1295
	L	1800-1810,1812,1813 INDUCTOR	CTF1473
C	L	1901 INDUCTOR	CTH1255
	L	1930,1970,9000-9003 CHIP BEADS	ATL7010
	L	1931 INDUCTOR	ATH7074
	L	1932 INDUCTOR	ATH7073
	L	1971 INDUCTOR	ATH7061
	L	9004-9007,9104-9107 COIL	ATH7064
	L	9008,9100-9103,9108 CHIP BEADS	ATL7010
	L	9010,9014,9015,9109 INDUCTOR	CTF1473
	L	9011,9012 CHIP SOLID INDUCTOR	QTL1013
	L	9013 INDUCTOR	CTF1386
	L	9110,9114,9115 INDUCTOR	CTF1473
D	L	9351 CHIP SOLID INDUCTOR	QTL1013
	F	800-803,1800-1802 EMI FILTER	DTL1106
	JA	701 RJ45 CONNECTOR	VKN2086
	JA	1601-1604,9000 HDMI CONNECTOR	AKP7224
	JA	9100 HDMI CONNECTOR	AKP7224
	KN	1302,1303 EARTH METAL FITTING	VNF1109
	X	501 CRYSTAL (25 MHz)	ASS7098
	X	801 CRYSTAL (27 MHz)	ASS7103
	X	1250 CRYSTAL (48 MHz)	ASS7099
	X	1300 CRYSTAL (26.864 MHz)	ASS7094
	X	1501 CRYSTAL (27 MHz)	ASS7092
E	X	1701 CRYSTAL (28.63636 MHz)	ASS7096
	X	9351 CRYSTAL (24.576 MHz)	ASS7097
	CN	601 5P CONNECTOR	VKN1374
	CN	1250,1404 PLUG	CKS1764
	CN	1251 15P SOCKET	XKP3078
	CN	1252,1403 13P SOCKET	XKP3077
	CN	1253,1402 CONNECTOR	CKS4668
	CN	1259 CONNECTOR	AKM1276
	CN	1401 31P CONNECTOR	VKN1435
	CN	1405 CONNECTOR	VKN2045
F	CN	1501 CONNECTOR	CKS1754
	CN	1601 CONNECTOR	AKN7051
	CN	1900 CONNECTOR	B4B-EH
NSP	1	ID LABEL ASSY	AXW7015

Mark	No.	Description	Part No.
RESISTORS			
	R	404,405,408,410	RAB4CQ560J
	R	406,407,409	RAB4CQ473J
	R	411-413,441-444	RAB4CQ473J
	R	415,416,1039-1041	RAB4CQ560J
	R	422-427,429-432	RAB4CQ470J
	R	434-438,551-554	RAB4CQ470J
	R	510	RS1/16SS2001F
	R	511-514	RS1/16SS49R9F
	R	707,855,857,926	RAB4CQ473J
	R	733,753,761,763	RAB4CQ470J
	R	738,739,741,1527	RAB4CQ220J
	R	780,1003,1004,1007	RAB4CQ330J
	R	804,826,1150,1202	RS1/10SR0R0J
	R	806	RS1/16SS6800D
	R	807	RS1/16SS4700D
	R	813,815	RS1/10SR43R0D
	R	814,816	RS1/10SR1000D
	R	820	RS1/10SR4700F
	R	821,822,824,825	RS1/10SR1001F
	R	834,905-908,927	RAB4CQ103J
	R	861,863,864,977	RAB4CQ0R0J
	R	875,879	RAB4CQ221J
	R	978,993,994,1800	RAB4CQ0R0J
	R	1008,1010,1011,1015	RAB4CQ330J
	R	1016,1020,1021,1024	RAB4CQ330J
	R	1025,1027,1028,1032	RAB4CQ330J
	R	1033,1811,1812	RAB4CQ330J
	R	1045	RAB4CQ560J
	R	1050-1053,1306,1881	RAB4CQ103J
	R	1152,1170,1179,1200	RS1/16SS2200F
	R	1153,1173,1180	RS1/16SS5601F
	R	1203,1209	RS1/16SS4700F
	R	1206,1211,1216,1221	RS1/16SS2200F
	R	1212,1217,1222	RS1/16SS56R0F
	R	1214,1219,1224	RS1/16SS3300F
	R	1320,1347-1350,1460	RAB4CQ101J
	R	1334,1355,1555,1556	RAB4CQ473J
	R	1406,1454,1916	RS1/10SR100J
	R	1496,1497,1673,1674	RS1/10SR0R0J
	R	1525,1526,1528-1530	RAB4CQ100J
	R	1532-1536	RAB4CQ220J
	R	1539,1703,1716,1717	RAB4CQ470J
	R	1582,1704,1705,1707	RAB4CQ680J
	R	1632	RS1/16SS4701F
	R	1691,1692,1721,1722	RS1/10SR0R0J
	R	1801,1803-1810	RAB4CQ0R0J
	R	1817-1819,1823-1825	RAB4CQ330J
	R	1838-1840,1852,1853	RAB4CQ470J
	R	1845,1846,1934,1949	RS1/10SR0R0J
	R	1849	RAB4CQ472J
	R	1856,1858-1866	RAB4CQ473J
	R	1867,1868,1870,1871	RAB4CQ470J
	R	1869,1872-1875	RAB4CQ680J
	R	1876,1879,1880	RAB4CQ470J
	R	1882,9205-9208	RAB4CQ103J
	R	1890-1899,9032-9040	RAB4CQ473J
	R	1908	RS1/16SS1002D
	R	1910	RS1/16SS2001D

Mark	No.	Description	Part No.
	R	1919	RS1/8SQ4R7J
	R	1930,1933	ACN7169
	R	1931	RS1/8SQR18J
	R	1932	ACN7168
	R	1941,1946	RS1/16SS1502F
	R	1942	RS1/16SS1202F
	R	1945	RS1/16SS4702F
	R	1950,1952-1956	RS1/10SR0R0J
	R	1971	RS1/16SS6802F
	R	1972	RS1/16SS1002F
	R	1977-1979,1990-1993	RS1/10SR0R0J
	R	9004,9104	RS1/16SS6800F
	R	9225,9226	RAB4CQ473J
	R	9339	RS1/10SR1R0J
	R	9358-9360	RAB4CQ0R0J
	Other Resistors		RS1/16SS###J

CAPACITORS

	C	404,406,408,410	CKSSYB104K10
	C	405,407,409,411	CCSSCH471J16
	C	414,415,417,419	CKSSYB104K10
	C	416,418,420,422	CCSSCH471J16
	C	421,423,424	CKSSYB104K10
	C	425-430,516,611	CCSSCH102J50
	C	501,507,510,556	CCSSCH471J16
	C	502-506,509,512	CKSSYB104K10
	C	508,511,551	CEVW220M16
	C	513,515,552-555	CKSSYB104K10
	C	514	CEVW330M16
	C	519,608,720,1150	CEVW101M16
	C	520,521,753,754	CKSSYB103K16
	C	522,523	CCSSCH9R0D50
	C	525	CSZS330M6R3
	C	558,559,571,718	CCSSCH471J16
	C	560,725,870,889	CCSSCH101J50
	C	561,572,603,612	CKSSYB104K10
	C	601,606,1301,1306	CKSRYB104K16
	C	602,607,871,878	CKSQYB225K10
	C	604,930,1100,1101	CKSQYB475K6R3
	C	605,723,1944	CEVW221M4
	C	701,702,704-706	CKSSYB104K10
	C	711-717,719,722	CKSSYB104K10
	C	721,744-750,927	CCSSCH471J16
	C	724,726-734	CKSSYB104K10
	C	735,751,804,816	CCSSCH102J50
	C	736-739,755,812	CKSSYB104K10
	C	742,743,805,831	CEVW100M16
	C	752,814,834,846	CEVW101M4
	C	806,815,817,819	CKSSYB105K6R3
	C	807,862,865,869	CKSSYB104K16
	C	813,826-830	CKSSYB104K10
	C	818,1503,1800,1823	VCH1277
	C	820,1705,1940	VCH1234
	C	821,824,835,847	CKSSYB105K6R3
	C	822,833,836,848	CCSSCH102J50
	C	823	VCH1268
	C	825,885,1027,1254	CCSSCH331J50
	C	832,856,879,1030	CKSQYB106K6R3
	C	837-845,852,926	CKSSYB104K10
	C	849,855,1014,1032	CEVW101M4

Mark	No.	Description	Part No.
	C	850,853,857,861	CKSSYB105K6R3
	C	851,854,858,859	CCSSCH102J50
	C	860,880,939,1004	CKSSYB103K16
	C	863,866,867,929	CCSSCH102J50
	C	864,868,882,887	CKSSYB105K6R3
	C	872,873,875,876	CKSSYB104K16
	C	874,1115	CEVW470M6R3
	C	883,888,1252,1978	CKSQYB225K10
	C	884	CCSSCH221J50
	C	886,891	CKSSYB473K10
	C	890	CCSSCH151J50
	C	928,1156,1157,1172	CKSSYB104K10
	C	937,938,1001,1003	CKSSYB105K6R3
	C	1002,1010,1011,1021	CKSSYB104K16
	C	1005,1023,1024,1114	CKSSYB103K16
	C	1006,1008,1009,1012	CCSSCH102J50
	C	1007,1015-1020,1022	CKSSYB105K6R3
	C	1013,1025,1028,1050	CCSSCH102J50
	C	1026,1051,1053,1112	CKSSYB105K6R3
	C	1029,1052,1250	CKSSYB104K16
	C	1031,1505,1507,1709	CKSQYB106K6R3
	C	1103,1104,1106,1107	CKSQYB475K6R3
	C	1108-1111,1116-1120	CCSSCH102J50
	C	1113,1166,1185-1187	CKSSYB105K6R3
	C	1145,1546,9145	ACH7306
	C	1146,1149,1201,1206	CCSSCH101J50
	C	1147,1253,1263,1266	CCSSCH102J50
	C	1151,1168,1176	CCSSCH5R0C50
	C	1152,1167,1175	CCSSCH4R0C50
	C	1153,1154,1169,1170	CCSSCH180J50
	C	1155,1171,1179	CCSSCH7R0D50
	C	1173,1180,1181,1204	CKSSYB104K10
	C	1177,1178	CCSSCH180J50
	C	1200,1205,1976	CCSSCH560J50
	C	1202,1251,1307,1343	CEVW101M16
	C	1203,1801,1824,1826	DCH1201
	C	1207,1210,1213,1216	CKSSYB104K10
	C	1208,1212,1215,1625	CCSSCH470J50
	C	1209,1211,1214	CCSSCH390J50
	C	1261,1268,1269,1417	CCSSCH101J50
	C	1262,1267,1302,1305	CKSSYB104K10
	C	1264,1271-1279,1290	CCSSCH100D50
	C	1265,1304,1743	CCSSCH120J50
	C	1282,1283,1344,1346	CCSSCH471J16
	C	1291,1292,1313-1316	CCSSCH102J50
	C	1300,1742,9351,9352	CCSSCH100D50
	C	1303,1340,1370,1415	CKSSYB103K16
	C	1308-1312,1317,1320	CKSSYB104K10
	C	1318,1319,1322,1324	CCSSCH102J50
	C	1321,1323,1325,1326	CKSSYB104K10
	C	1327,1329,1331	CCSSCH102J50
	C	1328,1330,1332-1335	CKSSYB104K10
	C	1336-1339,1391,1407	CCSSCH102J50
	C	1341,1342,1372,1390	CKSSYB104K10
	C	1347,1403,1409,1413	CCSSCH471J16
	C	1400-1402,1404-1406	CKSSYB104K10
	C	1408,1410,1418	CKSSYB104K10
	C	1411	CEAK102M16-P35
	C	1412,1419,1455-1472	CCSSCH102J50

Mark	No.	Description	Part No.
	C	1414,1416,1420-1430	CCSSCH471J16
	C	1431,1432,1434-1437	CCSSCH101J50
	C	1438-1440,1478,1494	CCSSCH471J16
	C	1443-1450,1474-1477	CCSSCH101J50
	C	1451-1454,1502,1504	CKSSYB104K10
	C	1496,1497,1499,1516	CCSSCH471J16
	C	1498,1527,1547,1549	CCSSCH101J50
	C	1501,1611,1716,1720	CEVW101M16
	C	1506,1508,9003,9005	CKSSYB105K6R3
	C	1509,1511,1515,1517	CKSSYB104K10
	C	1510,1512,1530,1533	CCSSCH102J50
	C	1513,1514	CCSSCH8R0D50
	C	1518,1523,1535,9399	CCSSCH471J50
	C	1519,1524,1708,1714	CKSSYB103K16
	C	1520,1522,1526,1528	CKSSYB104K10
	C	1521,1525,1529,1536	CCSSCH471J16
	C	1531,1532,1534,1537	CKSSYB104K10
	C	1538,1540,1543,1548	CCSSCH102J50
	C	1539,1541,1542,1545	CKSSYB104K10
	C	1544,1575,1635-1644	CCSSCH471J16
	C	1551,1569,1598	CCSSCH102J50
	C	1552,1609,1627,1651	CCSSCH101J50
	C	1570,1574,1613-1618	CKSSYB104K10
	C	1577	CEVW470M4
	C	1593,1594	CKSQYB475K6R3
	C	1601-1604,1606-1608	CCSSCH102J50
	C	1612,9043,9044,9143	CKSRYB105K10
	C	1619,1652,1695,1711	CCSSCH102J50
	C	1620-1624,1631-1634	CKSSYB104K10
	C	1626	CCSSCH470J50
	C	1653,1698,1799,1866	CCSSCH101J50
	C	1696,1697,1699,9099	CCSSCH331J50
	C	1703,1704,1706,1710	CKSSYB104K10
	C	1707	CKSSYB823K10
	C	1712,1718,1721,1723	CKSQYB106K6R3
	C	1713,1715,1717,1719	CKSSYB104K10
	C	1722,1724,1726-1729	CKSSYB104K10
	C	1725,1731,1816,1817	CKSSYB103K16
	C	1730,1735-1739,1744	CCSSCH102J50
	C	1732-1734,1741,1746	CKSSYB104K10
	C	1745,1825,1913,9049	CEVW101M16
	C	1802-1815,1818,1819	CKSSYB104K16
	C	1820,1822,1855-1865	CCSSCH102J50
	C	1821,9020,9120	CKSSYB104K16
	C	1827,1829,1831,1833	CKSSYB104K10
	C	1828,1830,1832,1834	CCSSCH471J16
	C	1835,9048,9148	CKSSYB103K16
	C	1836,1838,1840,1842	CKSSYB104K10
	C	1837,1839,1841,1843	CCSSCH471J16
	C	1844,1846,1848,1876	CKSSYB104K10
	C	1845,1847,1849,9002	CCSSCH471J16
	C	1867-1871,1874,1875	CCSSCH102J50
	C	1872,1873,1885,1887	CCSSCH101J50
	C	1877,1916,1997,1998	CKSSYB104K10
	C	1878,1881-1884,1886	CCSSCH102J50
	C	1888,1890,1891,1893	CCSSCH101J50
	C	1889,1892,1919-1923	CCSSCH102J50
	C	1900	CEVW101M25
	C	1901	CKSQYB104K25

Mark	No.	Description	Part No.
	C	1903,1904,1931,1932	CCG1195
	C	1905	CKSRYB104K16
	C	1906	CKSRYB153K25
	C	1907	CCSRCH681J50
	C	1908,1933,1934	CKSRYB104K25
	C	1909	CKSQYB105K16
	C	1910,1973	BCG1059
	C	1912,1917,1935-1937	CCSRCH102J50
	C	1914	CKSRYB103K25
	C	1938,1942,1948	CKSQYB475K10
	C	1939,1943	CCG1233
	C	1941	CCSRCH102J50
	C	1945-1947,1975	CKSRYB104K25
	C	1949,1950,1981,1982	CCSSCH102J50
	C	1952,1958	CKSRYB223K16
	C	1953,1957	CCSRCH561J50
	C	1959	CCSRCH101J50
	C	1970	CCG1195
	C	1974	CEVW101M4
	C	1977	CCSRCH331J50
	C	1979	CKSQYB225K10
	C	1983,1993,1995,9057	CCSSCH101J50
	C	1992,9022,9047,9051	CCSSCH102J50
	C	9001,9101	DCH1165
	C	9004,9006,9008,9010	CCSSCH471J16
	C	9007,9011,9017,9019	CKSSYB105K6R3
	C	9009,9013,9015,9026	CKSSYB104K10
	C	9012,9014,9016,9018	CCSSCH471J16
	C	9021,9027,9030,9032	CCSSCH471J16
	C	9023-9025,9123-9125	CKSQYB106K6R3
	C	9028,9029,9103,9105	CKSSYB105K6R3
	C	9031,9050,9052,9054	CKSSYB104K10
	C	9035-9042,9135-9142	VCG1066
	C	9053,9055,9056,9098	CCSSCH102J50
	C	9102,9104,9106,9108	CCSSCH471J16
	C	9107,9111,9117,9119	CKSSYB105K6R3
	C	9109,9113,9115,9126	CKSSYB104K10
	C	9110,9112,9114,9116	CCSSCH471J16
	C	9118,9121,9127,9130	CCSSCH471J16
	C	9122,9147,9152,9153	CCSSCH102J50
	C	9128,9129	CKSSYB105K6R3
	C	9131,9154,9353	CKSSYB104K10
	C	9132,9354	CCSSCH471J16
	C	9144	CKSRYB105K10
	C	9149	CEVW101M16
	C	9151,9301-9312,9316	CCSSCH101J50
	C	9155	CCSSCH102J50
	C	9199,9398	CCSSCH331J50
	C	9317	CCSSCH101J50

F INTERFACE ASSY

SEMICONDUCTORS

Mark			
⚠	IC	7101	PQ1CG3032FZ
	Q	7001	LTA124EUB
	Q	7002	LTC124EUB
⚠	D	7102	D3SBA20(B)
	D	7103	RB050L-40
⚠	D	7104	MTZJ6R8(B)

Mark	No.	Description	Part No.
MISCELLANEOUS			
L	7101	INDUCTOR	ATH7052
H	7101,7102	FUSE CLIP	AKR1004
J	5	JUMPER WIRE	D20PYY0415E
KN	7001-7006	WRAPPING TERMINAL	VNF1084
CN	7001,7006	CONNECTOR	CKS1720
CN	7002,7003,7007,7009	CONNECTOR	CKS1730
CN	7004	24P SOCKET	AKP7203
CN	7005	13P PLUG	XKP3066
CN	7008	PLUG	CKS1724
CN	7010	7P PLUG	XKP3063
CN	7011	23P PLUG	XKP3071
CN	7012	CONNECTOR	9604S-17C
CN	7013	CONNECTOR	9604S-19C
CN	7014	CONNECTOR	9604S-21C
CN	7015	27P CONNECTOR	VKN1258
CN	7016	CONNECTOR	CKS3376
CN	7017	CONNECTOR	CKS3374
CN	7018	2P TOP POST	B2B-EH
CN	7019	CONNECTOR	CKS3813
	7001	HEAT SINK	ANH-309
	7002	SCREW	BBZ30P080FCC
JH	7001	4P CABLE HOLDER	51048-0400
JH	7002	PCB BINDER	VEF1040
RESISTORS			
R	7109		RS1/10SR1001D
R	7110		RS1/10SR3301D
Other Resistors			RS1/10SR###J
CAPACITORS			
C	7001-7008,7013-7020		CCSRCH102J50
C	7009-7012		CCSRCH100D50
C	7124		CFTLA274J50
C	7125,7128,7130,7131		CCSRCH102J50
C	7127		CEAK682M25
C	7129		CKSRYB104K50
C	7132		CEHAZL471M25
C	7133		CKSYB105K25
C	7134		CKSRYB104K25
C	7136		CEHAZL221M10
C	7137,7138		CCSRCH102J50
C	7139		CFTLA394J50
C	7143,7144		CCSRCH101J50

G COMPONENT ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
IC	6001-6004		TC74LVX4052FT
IC	6005		TC74LVX4053FT
IC	6006		LA7213
IC	6007,6008		NJM2581M
IC	6009		TC4094BFN
IC	6010		TC74VHCT08AFTS1
IC	6014		TC74LVX4051FT
Q	6001-6007,6009,6010		LSA1576UB
Q	6008		LTC114EUB
Q	6011,6019,6021		LTC124EUB
Q	6015		LSC4081UB
Q	6016-6018,6020		LSA1576UB
D	6001		1SS352
D	6002,6003		RR264M-400
MISCELLANEOUS			
L	6001	CHIP SOLID INDUCTOR	ATL7002
JA	6001	PIN JACK(3P)	AKB7203
JA	6002,6003	PIN JACK(6P)	AKB7204
JA	6004	JACK	AKN-209
KN	6001	SCREW PLATE	VNE1948
CN	6002	PLUG	CKS3545
CN	6004	15P PLUG	XKP3067
CN	6006	CONNECTOR	9607S-11F
CN	6009	24P SOCKET	AKP7203
CN	6010	L-PLUG(10P)	KM200NA10L
JP	6007	8P HOUSING ASSY	ADX7693
RESISTORS			
R	6001-6003,6040-6045		RS1/10SR75R0F
R	6053-6058		RS1/10SR75R0F
Other Resistors			RS1/10SR###J
CAPACITORS			
C	6004,6005,6016,6017		CKSRYB103K50
C	6006,6007,6032,6033		CEAT101M16
C	6009-6014,6035-6037		CCSRCH101J50
C	6018,6021,6024,6166		CEAT100M50
C	6019,6020,6022,6023		CKSRYB103K50
C	6025		CEAT3R3M50
C	6026,6027,6030,6031		CKSRYB103K50
C	6028,6038,6039		CEAT101M10
C	6043-6045,6055-6057		CEAT101M10
C	6046,6047,6058,6059		CKSRYB105K10
C	6048,6049,6060,6061		CCSRCH102J50
C	6050,6051		CEAT221M16
C	6064,6070,6072,6086		CKSRYB105K10
C	6065,6069,6071,6073		CCSRCH102J50
C	6068		CKSRYB105K16
C	6074,6075,6110		CKSRYB104K16
C	6082-6085		CCSRCH101J50
C	6087-6089,6100,6102		CCSRCH102J50
C	6090,6091,6094,6099		CKSRYB105K10
C	6092,6093		ACH1479
C	6095		CCSRCH331J50
C	6096		CEAK221M16
C	6097,6098		CKSRYB224K10
C	6101,6105,6108,6147		CKSRYB105K10
C	6103,6104,6143,6144		CEAT101M16
C	6106,6107,6146,6149		CCSRCH102J50
C	6111,6112,6125-6136		CKSRYB103K50
C	6115-6117		CKSRYB104K16
C	6121-6124,6197		CCSRCH100D50
C	6148,6151,6152,6155		CKSRYB105K10
C	6150,6153,6154,6156		CCSRCH102J50
C	6157,6158,6161,6162		CKSRYB105K10
C	6159,6160,6163,6164		CCSRCH102J50
C	6165		CKSRYB105K10
C	6168,6170,6184,6190		CKSRYB103K50
C	6169,6171,6174,6176		CEAT101M16
C	6172,6173,6196		CCSRCH102J50
C	6177,6179,6180,6182		CEAT101M16
C	6183,6192,6193		CEAT101M16
C	6191		CKSRYB103K50

Mark	No.	Description	Part No.

H COMPOSITE_S ASSY

SEMICONDUCTORS

	IC	6501-6503,6511,6512	TC74HC4051AFT
	IC	6504	PDC162A
	IC	6513	LA7213
	IC	6514	MM1511XN
	IC	6521	TC74HC4053AFT
	IC	6531	LA7109
	IC	6533	TC74VHC32FTS1
	IC	6541,6542	TC4094BFN
	IC	6543	NJM2505AF
	IC	6551-6554	NJM4580V
	Q	6501-6508	IMX25
	Q	6509,6516,6524,6525	LSA1576UB
	Q	6510	LTC114EUB
	Q	6528-6531	LSC4081UB
	D	6503,6504	RR264M-400
	D	6505	1SS352
	D	6506	1SS301
	D	6507	DAP202U
	D	6508	1SS302

MISCELLANEOUS

	L	6501 CHIP COIL	LCYA330J2520
	JA	6501,6502 PIN JACK(4P)	XKB3017
	JA	6503-6505 COMB.JACK(2S+2P)	AKB7200
	JA	6506 COMB.JACK(S+1P)	AKB7199
	KN	6501-6503 SCREW PLATE	VNE1948
	X	6501 CRYSTAL (14.31818 MHz)	ASS7080
	CN	6501 PLUG	CKS3545
	CN	6502 CONNECTOR	9607S-21F
	CN	6503 13P PLUG	XKP3066

RESISTORS

	R	6581-6595,6734,6736	RS1/10SR75R0F
	R	6738,6744,6746,6748	RS1/10SR75R0F
		Other Resistors	RS1/10SR###J

CAPACITORS

	C	6505,6506,6515,6525	CEAK220M50
	C	6526,6535,6536	CEAK220M50
	C	6545,6546,6652-6655	CCSRCH100D50
	C	6550-6555,6625,6644	CCSRCH102J50
	C	6556,6558,6567,6586	CEAT101M10
	C	6557,6559,6566,6568	CKSRYB104K16
	C	6560-6563,6565,6584	CCSRCH181J50
	C	6571-6579,6581	CFHXSQ103J16
	C	6580,6582	ACH1480
	C	6587,6601,6649,6730	CEAT101M10
	C	6598	CEAT100M50
	C	6599,6600,6605,6606	CKSRYB103K50
	C	6602,6604,6643,6717	CKSRYB104K16
	C	6607,6610,6613,6696	CEAT220M50
	C	6608,6609,6611,6612	CKSRYB103K50
	C	6620,6621,6662-6667	CEAT101M16
	C	6624,6645,6647	CKSRYB105K10
	C	6646,6648,6657,6660	CCSRCH102J50
	C	6661,6668,6669,6674	CCSRCH102J50
	C	6670-6673,6676-6678	CKSRYB105K10
	C	6675,6679-6681	CCSRCH102J50
	C	6682-6684,6690,6691	CKSRYB105K10
	C	6685-6687,6692,6693	CCSRCH102J50
	C	6688,6726	CEAT101M16
	C	6689	CCSRCH100D50
	C	6694,6697,6699,6702	CKSRYB103K50
	C	6701	CEAT220M50
	C	6704,6709,6724,6742	CKSRYB103K50
	C	6706,6707	CKSQYB106K6R3
	C	6719-6722,6746,6751	CKSRYB104K16
	C	6723,6725,6728	CKSRYB105K10
	C	6727	CEAT470M16
	C	6729,6748,6750,6752	CCSRCH102J50
	C	6731	CEAT101M10
	C	6732,6733	CKSRYB473K25
	C	6734	CCSRCH4R0C50
	C	6735	CCSRCH5R0C50
	C	6736,6737	CCSRCH240J50
	C	6738-6740,6745	CCSRCH101J50
	C	6743,6744	CKSRYB122K50
	C	6753	CCSRCH102J50
	C	6754	CKSRYB104K16

I FRONT BRIDGE ASSY

MISCELLANEOUS

	CN	7701 PLUG(6P)	KM200NA6
	CN	7702 PLUG(3P)	KM200NA3
	CN	7704 CONNECTOR	CKS3376
	CN	7705,7707 CONNECTOR	CKS3374
	CN	7706 CONNECTOR	9604S-17C
	CN	7708 11P CONNECTOR	52044-1145
	CN	7709 27P CONNECTOR	VKN1287
	JH	7701,7702 PCB BINDER	VEF1040
	JP	7701 5P HOUSING ASSY	ADX7692

RESISTORS

		All Resistors	RS1/10SR###J

CAPACITORS

	C	7702,7704,7725	CCSRCH102J50
	C	7703,7726	CKSRYB103K50
	C	7711-7713	CCSRCH100D50
	C	7715	CKSRYB105K16
	C	7716,7723	CCSRCH101J50

J MIC HP ASSY

SEMICONDUCTORS

	IC	6201	NJM4565MD
	D	6201,6202,6352	1SS302
	D	6203,6205,6206	UDZS5R1(B)

MISCELLANEOUS

	JA	6201 JACK	VKB1243
	JA	6351 PHONE JACK	AKN7029
	JA	6352 JACK	AKB7219
	KN	6202,6203 WRAPPING TERMINAL	VNF1084
	CN	6251 CONNECTOR	9604S-09C
	CN	6351 4P JUMPER CONNECTOR	52147-0410
	JH	6303 PCB BINDER	VEF1040

Mark	No.	Description	Part No.
RESISTORS			
	All Resistors		RS1/10SR###J
CAPACITORS			
C	6204,6228,6231,6232		CKSRYB103K50
C	6209		CKSRYB105K6R3
C	6212		CKSRYB471K50
C	6213,6219		CEJQ100M16
C	6216,6362		CCSRCH101J50
C	6222,6227		CCSRCH330J50
C	6224,6361		CKSRYB104K16
C	6229,6241,6242		CCSRCH102J50
C	6234,6235		CEAK101M16
C	6237		CEAK100M50
C	6353,6354		CKSRYB822K50
C	6359		CKSRYB103K50
C	6360		CKSRYB472K50

K DISPLAY ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
IC	8001		PDC188C8
IC	8002		GP1UE274XKC1
IC	8004		S-1200B33-M5
IC	8201		PE5615A
IC	8202		BU4842F
Q	8001-8007		LTC124EUB
Q	8012		2SK2034
D	8001,8003,8005,8007		SLR-343VC(NPQ)
D	8009,8013		SLR343BC4T(JKLM)
D	8011		SLR343WBCT(MNPQ)
D	8019		RB751V-40
D	8201		1SS301
D	8202		RB501V-40
MISCELLANEOUS			
J	1	JUMPER WIRE	D20PYY0305E
J	2	JUMPER WIRE	D20PYY0410E
J	3	JUMPER WIRE	D20PYY0310E
KN	8201	FL HOLDER(FE)	VNF1096
V	8201	FL TUBE DISPLAY	AAV7115
S	8001-8012,8015-8020	SWITCH	ASG7029
S	8023	SWITCH	ASG7029
S	8024	ROTARY ENCODER	ASX7051
X	8002	CRYSTAL (15 MHz)	CSS1653
X	8201	CERAMIC RESONATOR (5 MHz)	VSS1142
CN	8002	9P CONNECTOR	VKN1852
CN	8202	31P CONNECTOR	VKN1291
JH	8001,8006	3P CABLE HOLDER	51048-0300
JH	8003	4P CABLE HOLDER	51048-0400
JP	8004	10P HOUSING ASSY	ADX7696
JP	8005	4P HOUSING ASSY	ADX7699
RESISTORS			
	All Resistors		RS1/10SR###J
CAPACITORS			
C	8001-8007,8235,8256		CCSRCH101J50
C	8009,8015,8016,8018		CKSRYB104K16
C	8012,8013		CCSRCH120J50
C	8014,8030,8031,8228		CKSRYB105K10
C	8019-8021,8023,8025		CCSRCH102J50
C	8024		ACH7272
C	8026,8202,8223,8229		CCSRCH102J50
C	8029,8224,8225,8227		CKSRYB104K16
C	8033,8204-8220,8226		CKSRYB471K50
C	8034,8035,8222,8232		CKSRYB103K50
C	8201,8230		CKSRYB104K50
C	8221		ACH7268
C	8231,8237,8238		CEAT470M50
C	8233,8240		CCSRCH102J50
C	8236		CKSRYB105K16
C	8239		CEAT221M16
C	8242,8258		CCSRCH100D50
C	8244,8245,8251		CKSRYB103K50
C	8247		CKSRYB104K16
C	8248		CEAT101M35
C	8255		CKSRYB473K50
C	8257		CCSRCH101J50
C	8259		CCSRCK2R0C50

L VOL ASSY

Mark	No.	Description	Part No.
MISCELLANEOUS			
S	8401	ROTARY ENCODER	ASX7049
JH	8401	3P CABLE HOLDER	51048-0300
CAPACITORS			
C	8401,8402		CKSRYB103K50

M POWER SW ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
Q	8501		LTC143EUB
D	8502		SLR343BC4T(JKLM)
MISCELLANEOUS			
S	8501	SWITCH	ASG7029
JH	8501	4P CABLE HOLDER	51048-0400
RESISTORS			
	All Resistors		RS1/10SR###J
CAPACITORS			
C	8501		CCSRCH101J50

N ICE_BUFFER ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
IC	6801,6821,6841,6861		NJM2068MD
IC	6881,6901,6921		NJM2068MD
MISCELLANEOUS			
J	4	JUMPER WIRE	D20PYY0410E
KN	6801	SCREW PLATE	VNE1948
CN	6801	FLOATING CONNECTOR	AKM7086
CN	6811	19P PLUG	XKP3069
CN	6821	17P PLUG	XKP3068
CN	6830	5P SOCKET	XKP3073
JH	6801	4P CABLE HOLDER	51048-0400

Mark	No.	Description	Part No.
		RESISTORS	
	R	6810,6811,6830,6831	RN1/16SC10R0D
	R	6850,6851,6870,6871	RN1/16SC10R0D
	R	6890,6891,6910,6911	RN1/16SC10R0D
	R	6930,6931	RN1/16SC10R0D
		Other Resistors	RS1/10SR###J
		CAPACITORS	
	C	6803,6804,6823,6824	CFHXSQ103J16
	C	6807,6808,6817,6818	CCSRCH102J50
	C	6827,6828,6837,6838	CCSRCH102J50
	C	6843,6844,6863,6864	CFHXSQ103J16
	C	6847,6848,6857,6858	CCSRCH102J50
	C	6867,6868	CCSRCH102J50
	C	6883,6884,6903,6904	CFHXSQ103J16
	C	6923,6924	CFHXSQ103J16

O ICE SHIELD ASSY

Mark	No.	Description	Part No.
		MISCELLANEOUS	
	KN	6991 SCREW PLATE	VNE1948
	JH	6991 4P JUMPER CONNECTOR	52147-0410

P ICE INTERFACE ASSY

Mark	No.	Description	Part No.
		MISCELLANEOUS	
	CN	3801 17P SOCKET	XKP3079
	CN	3802 19P SOCKET	XKP3080
	CN	3810,3830,3850,3870 5P SOCKET	XKP3073
	CN	3820,3840,3860 PLUG	CKS1750

Q ICEPOWER AMP ASSY

Mark	No.	Description	Part No.
		SEMICONDUCTORS	
	IC	4000,4001	BU7262SFVM
	IC	4003	TC74VHC04FTS1
	IC	4004	TC74VHC08FTS1
	IC	4005	HA17431GLTPA
⚠	IC	4101,4201,4301,4401	ICC3-AVR
	IC	4200,4400,4600,4700	ICC1-AVR
	IC	4202,4402,4602,4702	NJM2068MD
	IC	4203,4403,4603,4703	NJM4565MD
	IC	4204,4404,4604,4704	NJM12904V
⚠	IC	4501,4601,4701	ICC3-AVR
⚠	IC	4900	NJM1431AU
	Q	4000,4002,4003	LTC124EUB
	Q	4001,4111,4211,4311	2SA1602A
	Q	4004,4006,4008,4010	LTA124EUB
	Q	4005,4007,4009,4011	RT1N140M
	Q	4012,4013	HN1A01FU
	Q	4014,4016	HN1C01FU
	Q	4015,4109,4209,4309	2SC4154
⚠	Q	4100,4101,4200,4201	PHB45NQ15T
	Q	4102,4104,4202,4204	2SC5738
	Q	4103,4105,4203,4205	2SA2061
	Q	4106,4107,4206,4207	2SA1682
	Q	4108,4208,4308,4408	2SD2704K
	Q	4110,4210,4310,4410	2SA1514K
	Q	4112,4312,4512,4712	RT1N140M
⚠	Q	4300,4301,4400,4401	PHB45NQ15T
	Q	4302,4304,4402,4404	2SC5738
	Q	4303,4305,4403,4405	2SA2061
	Q	4306,4307,4406,4407	2SA1682
	Q	4409,4509,4609,4709	2SC4154
	Q	4411,4511,4611,4711	2SA1602A
⚠	Q	4500,4501,4600,4601	PHB45NQ15T
	Q	4502,4504,4602,4604	2SC5738
	Q	4503,4505,4603,4605	2SA2061
	Q	4506,4507,4606,4607	2SA1682
	Q	4508,4608,4708	2SD2704K
	Q	4510,4610,4710	2SA1514K
⚠	Q	4700,4701	PHB45NQ15T
	Q	4702,4704	2SC5738
	Q	4703,4705	2SA2061
	Q	4706,4707	2SA1682
	D	4001-4005,4007-4014	1SS352
	D	4100,4200,4300,4400	1SS302
	D	4101,4102,4201,4202	RB161VA-20
	D	4103-4107,4203-4207	RF051VA2S
	D	4108,4109,4208,4209	RF101L2S
	D	4110,4210,4310,4410	1SS352
	D	4301,4302,4401,4402	RB161VA-20
	D	4303-4307,4403-4407	RF051VA2S
	D	4308,4309,4408,4409	RF101L2S
	D	4500,4600,4700	1SS302
	D	4501,4502,4601,4602	RB161VA-20
	D	4503-4507,4603-4607	RF051VA2S
	D	4508,4509,4608,4609	RF101L2S
	D	4510,4610,4710,4810	1SS352
	D	4701,4702	RB161VA-20
	D	4703-4707	RF051VA2S
	D	4708,4709	RF101L2S
		MISCELLANEOUS	
	L	4100,4200,4300,4400 COIL	ATL7017
	L	4101,4201,4301 COMMON MODE COIL	ATL7022
	L	4102,4103,4202,4203 INDUCTOR	ATL7018
	L	4104,4204,4304 CHIP INDUCTOR	ATL7020
	L	4302,4303,4402,4403 INDUCTOR	ATL7018
	L	4401,4501,4601 COMMON MODE COIL	ATL7022
	L	4404,4504,4604 CHIP INDUCTOR	ATL7020
	L	4500,4600,4700 COIL	ATL7017
	L	4502,4503,4602,4603 INDUCTOR	ATL7018
	L	4701 COMMON MODE COIL	ATL7022
	L	4702,4703 INDUCTOR	ATL7018
	L	4704 CHIP INDUCTOR	ATL7020
	JA	4101 SP TERMINAL 6-P(V0)	AKE7150
	JA	4301,4501 SP TERMINAL 4-P(V0)	AKE7149
	KN	4100,4200,4300,4400 SCREW PLATE	VNE1948
	RY	4100,4300,4500,4700 RELAY	ASR7001
	CN	4000 CONNECTOR	9604S-17C
	CN	4100,4300,4500 CONNECTOR	CKS1716
	CN	4200,4400,4600,4700 5P PLUG	XKP3062
	CN	4901 PLUG(2P)	KM200NA2
	CN	4902 PLUG(4P)	KM200NA4
	CN	4903 PLUG(7P)	KM200NA7
		4100,4200,4300,4400 4500,4600,4700 COIL SHIELD 60(MTL)	ANK7139

Mark	No.	Description	Part No.
RESISTORS			
	R	4057	RS1/8SQ471J
	R	4060,4139,4239,4339	RS1/10SR5602F
	R	4061	RS1/10SR3302F
	R	4100,4101,4200,4201	RN1/16SE1000D
	R	4102,4103,4202,4203	RN1/16SE9100D
	R	4104,4105,4204,4205	RN1/16SE1001D
	R	4123,4125,4167,4223	RS1/10SR1001F
	R	4124,4224,4324,4424	RS1/10SR2702F
	R	4126,4127,4226,4227	RS1/10SR1501F
	R	4128,4228,4328,4428	RS1/8SQ2702F
	R	4129,4229,4329,4429	RS1/8SQ1R0J
	R	4130,4230,4330,4430	RS1/8SQ4702F
	R	4131,4231,4331,4431	RS1/8SQ6802F
	R	4132,4232,4332,4432	RS1/10SR1802F
	R	4133,4135,4156,4176	RS1/10SR1801F
	R	4134,4234,4334,4434	RS1/10SR1201F
	R	4136,4236,4336,4436	RS1/10SR1502F
	R	4137,4237,4337,4437	RS1/4SA2702F
	R	4138,4238,4338,4438	RS1/10SR2701F
	R	4145,4150,4245,4250	RS1/8SQ1002F
	R	4146,4246,4346,4446	RS1/10SR3902F
	R	4147-4149,4161,4162	ACN7165
	R	4151,4152,4251,4252	ACN7162
	R	4154,4254,4354,4454	ACN7170
	R	4155,4255,4355,4455	RS1/8SQ1502F
	R	4163,4263,4363,4463	RS1/4SA1053F
	R	4164,4264,4364,4464	RS1/10SR3301F
	R	4166,4266,4366,4466	RS1/10SR1002F
	R	4168,4268,4368,4468	RS1/10SR2202F
	R	4169,4269,4369,4469	RS1/10SR1202F
	R	4177,4277,4377,4477	RS1/4SA2002F
	R	4179,4180,4279,4280	RS1/8SQ334J
	R	4225,4267,4323,4325	RS1/10SR1001F
	R	4233,4235,4256,4276	RS1/10SR1801F
	R	4247-4249,4261,4262	ACN7165
	R	4300,4301,4400,4401	RN1/16SE1000D
	R	4302,4303,4402,4403	RN1/16SE9100D
	R	4304,4305,4404,4405	RN1/16SE1001D
	R	4326,4327,4426,4427	RS1/10SR1501F
	R	4333,4335,4356,4376	RS1/10SR1801F
	R	4345,4350,4445,4450	RS1/8SQ1002F
	R	4347-4349,4361,4362	ACN7165
	R	4351,4352,4451,4452	ACN7162
	R	4367,4423,4425,4467	RS1/10SR1001F
	R	4379,4380,4479,4480	RS1/8SQ334J
	R	4433,4435,4456,4476	RS1/10SR1801F
	R	4439,4539,4639,4739	RS1/10SR5602F
	R	4447-4449,4461,4462	ACN7165
	R	4500,4501,4600,4601	RN1/16SE1000D
	R	4502,4503,4602,4603	RN1/16SE9100D
	R	4504,4505,4604,4605	RN1/16SE1001D
	R	4523,4525,4567,4623	RS1/10SR1001F
	R	4524,4624,4724	RS1/10SR2702F
	R	4526,4527,4626,4627	RS1/10SR1501F
	R	4528,4628,4728	RS1/8SQ2702F
	R	4529,4629,4729	RS1/8SQ1R0J
	R	4530,4630,4730	RS1/8SQ4702F
	R	4531,4631,4731	RS1/8SQ6802F
	R	4532,4632,4732	RS1/10SR1802F

Mark	No.	Description	Part No.
	R	4533,4535,4556,4576	RS1/10SR1801F
	R	4534,4634,4734	RS1/10SR1201F
	R	4536,4636,4736	RS1/10SR1502F
	R	4537,4637,4737	RS1/4SA2702F
	R	4538,4638,4738	RS1/10SR2701F
	R	4545,4550,4645,4650	RS1/8SQ1002F
	R	4546,4646,4746	RS1/10SR3902F
	R	4547-4549,4561,4562	ACN7165
	R	4551,4552,4651,4652	ACN7162
	R	4554,4654,4754	ACN7170
	R	4555,4655,4755	RS1/8SQ1502F
	R	4563,4663,4763,4863	RS1/4SA1053F
	R	4564,4664,4764,4864	RS1/10SR3301F
	R	4566,4666,4766,4900	RS1/10SR1002F
	R	4568,4668,4768	RS1/10SR2202F
	R	4569,4669,4769	RS1/10SR1202F
	R	4577,4677,4777	RS1/4SA2002F
	R	4579,4580,4679,4680	RS1/8SQ334J
	R	4625,4667,4723,4725	RS1/10SR1001F
	R	4633,4635,4656,4676	RS1/10SR1801F
	R	4647-4649,4661,4662	ACN7165
	R	4700,4701	RN1/16SE1000D
	R	4702,4703	RN1/16SE9100D
	R	4704,4705	RN1/16SE1001D
	R	4726,4727	RS1/10SR1501F
	R	4733,4735,4756,4776	RS1/10SR1801F
	R	4745,4750	RS1/8SQ1002F
	R	4747-4749,4761,4762	ACN7165
	R	4751,4752	ACN7162
	R	4767	RS1/10SR1001F
	R	4779,4780	RS1/8SQ334J
	R	4901	RS1/10SR3301F
	R	4902	RS2LMF682J
	Other Resistors		RS1/10SR###J
CAPACITORS			
	C	4001-4004,4011-4021	CCSRCH102J25
	C	4005,4006,4026,4027	CKSRYB104K16
	C	4010,4036,4910,4911	ACH7321
	C	4022,4025,4029,4040	CKSRYB105K10
	C	4023	CKSQYB106K6R3
	C	4024,4112,4113,4117	ACH1479
	C	4028,4926	CKSRYB103K25
	C	4031-4035,4121,4129	CKSRYB104K16
	C	4100,4200,4300,4400	CFTNA104J2A
	C	4101,4201,4301,4401	CFTNA274J2A
	C	4104,4105,4204,4205	ACG7069
	C	4106,4107,4206,4207	ACG7072
	C	4108,4208,4308,4408	ACH7320
	C	4109,4209,4309,4409	CFHXSQ103J16
	C	4114,4214,4314,4414	ACG7068
	C	4115,4118,4120,4130	CKSRYB105K10
	C	4116,4151,4216,4251	CKSRYB105K16
	C	4119,4219,4319,4419	CKSRYB474K16
	C	4122,4128,4222,4228	ACG7073
	C	4123,4223,4323,4423	ACG7066
	C	4124,4224,4324,4424	ACG7078
	C	4125,4225,4325,4425	ACG7071
	C	4126,4226,4326,4426	ACG7079
	C	4127,4227,4327,4427	ACG7070

Mark	No.	Description	Part No.
	C	4131,4132,4231,4232	CKSQYB224K25
	C	4133,4233,4333,4433	ACG7064
	C	4134,4234,4334,4434	ACG7063
	C	4135-4138,4235-4238	ACG7065
	C	4141,4142,4241,4242	CCG1245
	C	4143-4146,4243-4246	CCG1248
	C	4147,4148,4215,4218	CKSRYB105K10
	C	4149,4150,4249,4250	ACH7318
	C	4152,4153,4156,4221	CKSRYB104K16
	C	4155,4255,4355,4455	CKSYB475K25
	C	4157,4257,4357,4457	CKSRYB222K50
	C	4160,4260,4360,4460	CCSRCH102J50
	C	4161,4261,4361,4461	CCSSCH100D50
	C	4212,4213,4217,4312	ACH1479
	C	4220,4230,4247,4248	CKSRYB105K10
	C	4229,4252,4253,4258	CKSRYB104K16
	C	4304,4305,4404,4405	ACG7069
	C	4306,4307,4406,4407	ACG7072
	C	4313,4317,4412,4413	ACH1479
	C	4315,4318,4320,4330	CKSRYB105K10
	C	4316,4351,4416,4451	CKSRYB105K16
	C	4321,4329,4352,4353	CKSRYB104K16
	C	4322,4328,4422,4428	ACG7073
	C	4331,4332,4431,4432	CKSQYB224K25
	C	4335-4338,4435-4438	ACG7065
	C	4341,4342,4441,4442	CCG1245
	C	4343-4346,4443-4446	CCG1248
	C	4347,4348,4415,4418	CKSRYB105K10
	C	4349,4350,4449,4450	ACH7318
	C	4356,4421,4429,4452	CKSRYB104K16
	C	4417,4512,4513,4517	ACH1479
	C	4420,4430,4447,4448	CKSRYB105K10
	C	4453,4458,4521,4529	CKSRYB104K16
	C	4500,4600,4700	CFTNA104J2A
	C	4501,4601,4701	CFTNA274J2A
	C	4504,4505,4604,4605	ACG7069
	C	4506,4507,4606,4607	ACG7072
	C	4508,4608,4708,4808	ACH7320
	C	4509,4609,4709,4809	CFHXSQ103J16
	C	4514,4614,4714	ACG7068
	C	4515,4518,4520,4530	CKSRYB105K10
	C	4516,4551,4616,4651	CKSRYB105K16
	C	4519,4619,4719	CKSRYB474K16
	C	4522,4528,4622,4628	ACG7073
	C	4523,4623,4723	ACG7066
	C	4524,4624,4724	ACG7078
	C	4525,4625,4725	ACG7071
	C	4526,4626,4726	ACG7079
	C	4527,4627,4727	ACG7070
	C	4531,4532,4631,4632	CKSQYB224K25
	C	4533,4633,4733	ACG7064
	C	4534,4634,4734	ACG7063
	C	4535-4538,4635-4638	ACG7065
	C	4541,4542,4641,4642	CCG1245
	C	4543-4546,4643-4646	CCG1248
	C	4547,4548,4615,4618	CKSRYB105K10
	C	4549,4550,4649,4650	ACH7318
	C	4552,4553,4556,4621	CKSRYB104K16
	C	4555,4655,4755	CKSYB475K25
	C	4557,4657,4757,4857	CKSRYB222K50
	C	4560,4660,4760,4860	CCSRCH102J50
	C	4561,4661,4761	CCSSCH100D50
	C	4612,4613,4617,4712	ACH1479
	C	4620,4630,4647,4648	CKSRYB105K10
	C	4629,4652,4653,4658	CKSRYB104K16
	C	4704,4705	ACG7069
	C	4706,4707	ACG7072
	C	4713,4717,4817	ACH1479
	C	4715,4718,4720,4730	CKSRYB105K10
	C	4716,4751,4912,4913	CKSRYB105K16
	C	4721,4729,4752,4753	CKSRYB104K16
	C	4722,4728	ACG7073
	C	4731,4732	CKSQYB224K25
	C	4735-4738	ACG7065
	C	4741,4742,4927-4929	CCG1245
	C	4743-4746	CCG1248
	C	4747,4748,4818,4847	CKSRYB105K10
	C	4749,4750	ACH7318
	C	4756,4758,4914,4915	CKSRYB104K16
	C	4900-4905	ACH7305
	C	4908	ACH7311
	C	4909,4924,4925	CKSRYB104K25
	C	4920,4921	CKSRYB105K16
	C	4930,4931	CCSRCH102J50
	C	4932,4933	ACE7082

R V-BRIDGE ASSY

MISCELLANEOUS

CN	8601,8602	CONNECTOR	CKS3573

CAPACITORS

C	8602,8603	CKSRYB103K50
C	8604,8605	CKSRYB104K16

S PRE_BRIDGE ASSY

MISCELLANEOUS

CN	6951	CONNECTOR	9607S-21F
CN	6952	21P PLUG	XKP3070
CN	6953	FLOATING CONNECTOR	AKP7227

T PRIMARY GUARD ASSY

MISCELLANEOUS

CN	5752	5P PLUG	XKP3062

U PRIMARY ASSY

SEMICONDUCTORS

⚠	IC	8711	NJM78M56FA
	Q	8712	LTC143EUB
	D	8703,8704,8719	1SS352
⚠	D	8711	S1WB(A)60SD
	D	8717	1SS357
	D	8718	UDZS5R1(B)

Mark	No.	Description	Part No.
MISCELLANEOUS			
⚠	L	8701 LINE FILTER	XTF3004
	H	8701,8702 FUSE CLIP	AKR1004
	JA	8701 AC INLET ASSY	ADX7464
	KN	8701 WRAPPING TERMINAL	VNF1084
	KN	8702,8703 SCREW PLATE	VNE1948
⚠	RY	8702 POWER RELAY	ASR7022
⚠	T	8701 STANDBY TRANSFORMER	ATT7108
⚠	CN	8701 CONNECTOR	B2P3-VH
	CN	8711 PLUG(5P)	KM200NA5
RESISTORS			
	R	8702	RD1/4MUF220J
		Other Resistors	RS1/10SR###J
CAPACITORS			
⚠	C	8701,8702,8710	ACE7013
⚠	C	8704	ACG7039
	C	8711	CFTLA103J50
	C	8712-8715,8717,8720	CCSRCH102J50
	C	8716	CEAK332M25
	C	8718	CEAK221M25
	C	8719	CCSRCH471J50
	C	8721-8724	CCSRCH101J50

V REG ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
⚠	IC	7501,7611	NJM78M12FA
⚠	IC	7502	NJM79M12FA
⚠	IC	7521	NJM78M06FA
⚠	IC	7601	NJM78M56FA
⚠	IC	7602	NJM79M05FA
⚠	D	7501-7504,7521,7522	1SR154-400
	D	7505,7506,7523,7603	1SS357
⚠	D	7601	D3SBA20(B)
	D	7602	1SS352
	D	7604,7614	1SS357
⚠	D	7611,7612,7621-7623	1SR154-400
	D	7613	1SR154-400
	D	7624	HZU8R2(B2)
	D	7625	PTZ22(B)
MISCELLANEOUS			
	H	7501-7504,7601-7604 FUSE CLIP	AKR1004
	CN	7501,7601 5P TOP POST	B5B-EH
	CN	7502 PLUG(5P)	KM200NA5
	CN	7602 PLUG(8P)	KM200NA8
	JH	7502,7504,7602 PCB BINDER	VEF1040
⚠	P	7521,7522 PROTECTOR(1.5A)	AEK7011
RESISTORS			
	R	7621	RS1/10SR473J
⚠		Other Resistors	RD1/4MUF###J
CAPACITORS			
	C	7501,7511	CEAK332M25
	C	7504,7525,7526,7609	CFTLA394J50
	C	7505,7506,7603,7604	CKSRYB103K50
	C	7507,7508	CEAK221M25
	C	7521	CEAK222M25
	C	7522	CCSRCH101J50
	C	7523	CEAK221M16
	C	7601	CEAK472M16
	C	7602	CEAK222M16
	C	7605,7606	CEAK101M16
	C	7611	CEAK102M35
	C	7612	CEAK471M35
	C	7613,7626	CKSRYB103K50
	C	7614	CEAK100M50
	C	7621	CEANP101M35
	C	7622	CEAT101M35
	C	7623	CEAT221M35
	C	7624	CEAT101M16
	C	7625	CEAT470M50
	C	7628,7632	CCSRCH102J50
	C	7629	CFTLA104J50
	C	7634-7641	CKSRYB104K50

W ICE_REG ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
⚠	IC	7251	NJM78M12FA
⚠	IC	7252	NJM79M12FA
⚠	IC	7271	NJM78M05FA
⚠	IC	7272	NJM79M05FA
⚠	Q	7201	RSQ035P03
⚠	Q	7202	RSQ035N03
	Q	7203,7204	LTC143EUB
	Q	7205,7222	LTA143EUB
⚠	Q	7211	2SD1763A
⚠	Q	7212	2SB1186A
	Q	7221	LTC124EUB
	Q	7241	2SD1763A
	Q	7242	LSC4081UB
⚠	D	7201-7204,7211,7212	1SR154-400
	D	7205,7206,7245	1SS352
	D	7213,7214	HZU7R5(B1)
	D	7215,7216	1SR154-400
⚠	D	7241-7244,7251-7254	1SR154-400
	D	7247	UDZS12(B)
⚠	D	7248	PTZ15(B)
⚠	D	7249	HZU12(B2)
	D	7255,7256,7275,7276	1SS357
⚠	D	7271-7274	1SR154-400
MISCELLANEOUS			
	H	7201-7204,7241,7242 FUSE CLIP	AKR1004
	H	7251-7254 FUSE CLIP	AKR1004
	CN	7201 8P TOP POST	B8B-EH
	CN	7241 PLUG(2P)	KM200NA2
	CN	7251 PLUG(7P)	KM200NA7
	CN	7271 PLUG(4P)	KM200NA4
	CN	7302 PLUG(6P)	KM200NA6
	JH	7251-7253 PCB BINDER	VEF1040
RESISTORS			
	R	7211,7213	RD1/4MUF102J
	R	7241	RS1/4S152J
	R	7255,7256	RS1/8SQ0R0J
		Other Resistors	RS1/10SR###J

Mark	No.	Description	Part No.
CAPACITORS			
	C	7200,7240,7250,7270	CFTLA394J50
	C	7201,7202	CEAK102M16
	C	7211-7215,7219,7245	CEAK100M50
	C	7217,7218,7242,7253	CKSRYB103K50
	C	7221,7246	CEAK470M25
	C	7222,7277,7278	CCSRCH102J50
	C	7241,7251,7252	CEAK222M25
	C	7254,7273,7274	CKSRYB103K50
	C	7255,7256	CEAK221M25
	C	7271,7272	CEAK222M16
	C	7275,7276	CEAK221M16
	C	7281,7282	CCSRCH101J50
	C	7289,7290	CCSRCH331J50

X B_REG ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
⚠	IC	7300,7301	HA17431GLTPA
⚠	IC	7302,7303	NJM2746V
⚠	Q	7300	2SD2083
⚠	Q	7301	2SB1383
	Q	7302,7308	2SD1857
	Q	7303,7307	2SB1236
	Q	7304	RT1N241M
	Q	7306	RT1P241M
	Q	7309	2SC4154
	Q	7310	2SA1602A
	D	7302,7303	PTZ11(B)
	D	7304,7307	UDZS2R4(B)
	D	7306,7309,7350,7352	1SS352
	D	7308,7310	1SR154-400
	D	7351	UDZS18(B)
	D	7353	UDZS20(B)
	D	7355	1SS352
⚠	TH	7300	PTFM04BB222Q2N34B0
MISCELLANEOUS			
	H	7300-7303 FUSE CLIP	AKR1004
	CN	7306 PLUG(4P)	KM200NA4
	CN	7308 PLUG	CKS-556
	JH	7301 PCB BINDER	VEF1040
⚠	P	7300,7301 PROTECTOR(500MA)	AEK7005
RESISTORS			
	R	7302,7303	RS2LMF222J
	R	7306,7307	RS2LMF472J
	R	7308-7311	RS1/4SA333J
	R	7312-7315	RN1/16SE2702D
	R	7318,7319	RS1/8SQ473J
	R	7322,7323	RS2LMF152J
	R	7324,7325	RS1/8SQ100J
	R	7326-7329	RS1LMF332J
	R	7332,7333	RN1/10SE8202D
	R	7334,7335	RN1/10SE6801D
	R	7336,7337	RN1/10SE1800D
	R	7386	RS1/4SA154J
	R	7387	RS1/4SA393J
	R	7388	RS1/4SA223J
	R	7389	RS1/4SA473J
	Other Resistors		RS1/10SR###J
CAPACITORS			
	C	7302,7303,7376-7379	CCSRCH102J50
	C	7304-7307,7350	CKSRYB104K50
	C	7310,7311	CKSRYB473K50
	C	7318,7319	CCG1248
	C	7320,7321	CEAK4R7M50
	C	7324,7325	CEHAT470M2A
	C	7326,7327	ACG7064
	C	7380-7384	CKSRYB104K50
	C	7386	CCSRCH102J50

Y B_DIODE ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
⚠	D	7400,7401	LN6SB60-4003
MISCELLANEOUS			
	CN	7400 PLUG	CKS-556
		7400,7401 HEAT SINK B	ANH1021
		7402,7403 SCREW	IBZ30P080FCC
	JP	7401 3P HOUSING ASSY	ADX7649
RESISTORS			
	R	7402	RD1/4MUF100J
	Other Resistors		RS1/4SA###J
CAPACITORS			
	C	7400,7401	ACH7270
	C	7402,7403	CFTLA104J2A

Z HDMI RECT ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
⚠	D	8801	D5SBA20(B)
⚠	D	8803	MTZJ24(B)
MISCELLANEOUS			
	H	8801,8802 FUSE CLIP	AKR1004
	CN	8801 3P TOP POST	B3B-EH
	JH	8801,8802 PCB BINDER	VEF1040
	JP	8802 HOUSING ASSY	ADX7691
CAPACITORS			
	C	8801	ACH7286
	C	8802,8806	CCSRCH101J50
	C	8803,8807	CCSRCH102J50
	C	8804	CFTLA104J50
	C	8805	CKSRYB104K50

AA H GUARD ASSY

Mark	No.	Description	Part No.
MISCELLANEOUS			
	JH	6452-6455 PCB BINDER	VEF1040

AB DIGITAL_BRIDGE ASSY

Mark	No.	Description	Part No.
MISCELLANEOUS			
	CN	6756,6757 13P PLUG	XKP3066

Mark	No.	Description	Part No.

ACZOUT ASSY

SEMICONDUCTORS

	IC 6401	NJM2279M

MISCELLANEOUS

	JA 6401 JACK	AKB7222
	CN 6401 13P SOCKET	XKP3077

RESISTORS

	R 6406,6408	RS1/10SR75R0F
	Other Resistors	RS1/10SR###J

CAPACITORS

	C 6401,6402	CEAT101M10
	C 6403,6406	CEAK221M16
	C 6404,6407	CKSRYB104K16
	C 6405,6408	CCSRCH331J50
	C 6409,6410	CCSRCH181J50
	C 6411,6412	CKSRYB103K50