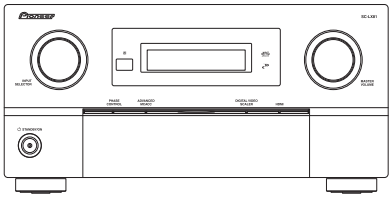
Pioneer

Service Manual



SC-LX81

ORDER NO.
RRV3841

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

SC-LX81
SC-LX71

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

Model	Type	Power Requirement	Remarks
SC-LX81	HYSXJ5	AC 220 V to 230 V	
SC-LX71	HYSXJ5	AC 220 V to 230 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 AUG. 2008 Printed in Japan

[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

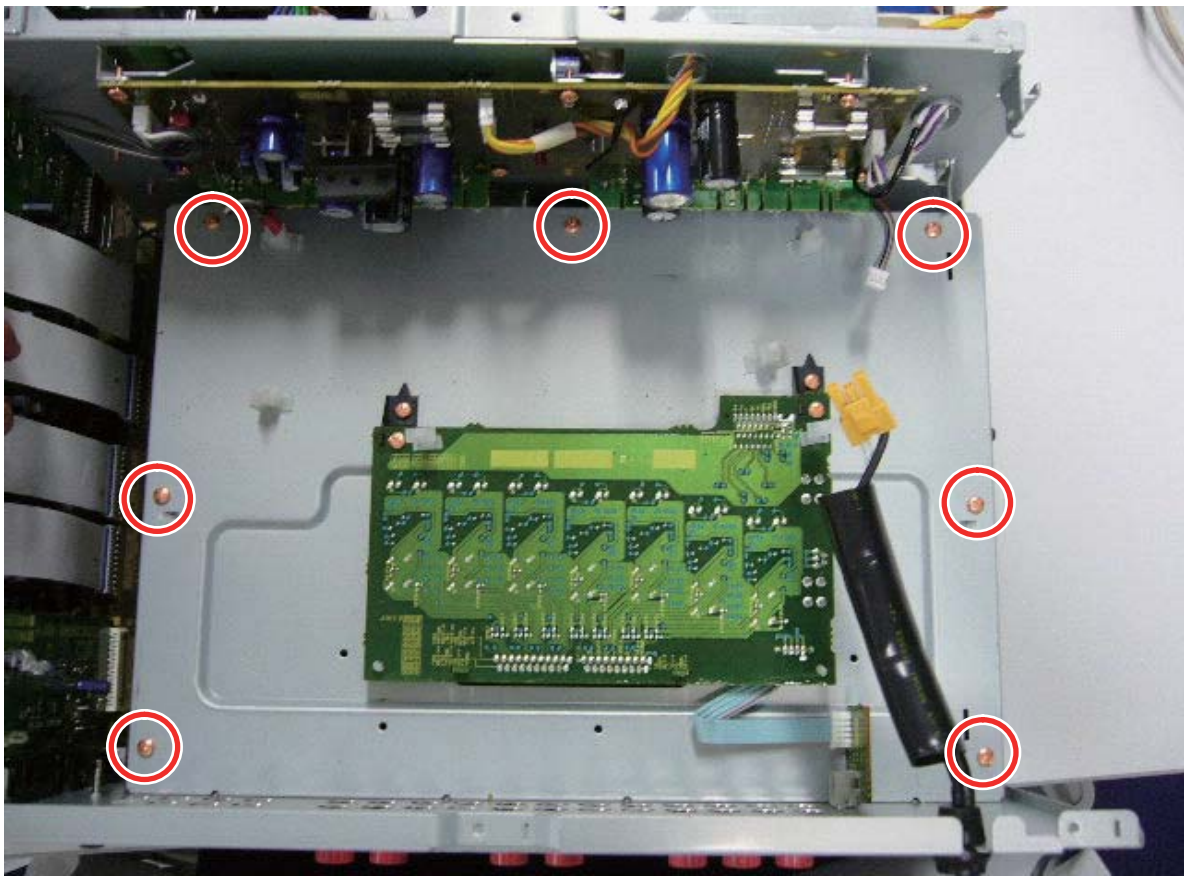
The part listed below is difficult to replace as a discrete component part.
When the part listed in the table is defective, replace whole Assy.

ASSY NAME	PCB ASSY Part No.	Parts that is Difficult to Replace			
		Ref No.	FUNCTION	Part No.	Remarks
HDMI NETWORK ASSY	SC-LX81: AWX9234 SC-LX71: AWX9235	IC101	HDMI Receiver	SII9135CTU	IC with heat-pad
		IC701	MEDIA Processor	DM850E	IC with heat-pad
		IC791	iPod Co-Processor	341S2154	IC with heat-pad

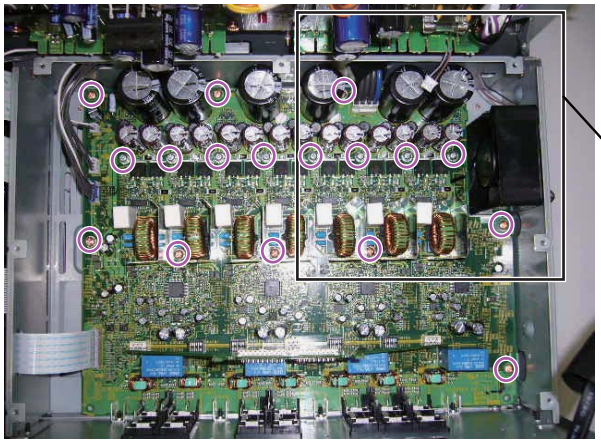
1.3 NOTES ON ASSEMBLING

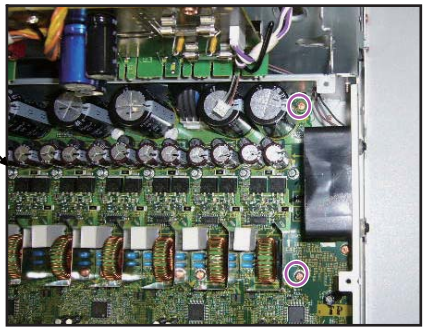
When assembling the ICE amplifier block, please note the following points of screws to prevent from short circuit.

The following 7 points of screws must always be used AMZ30P060FTC



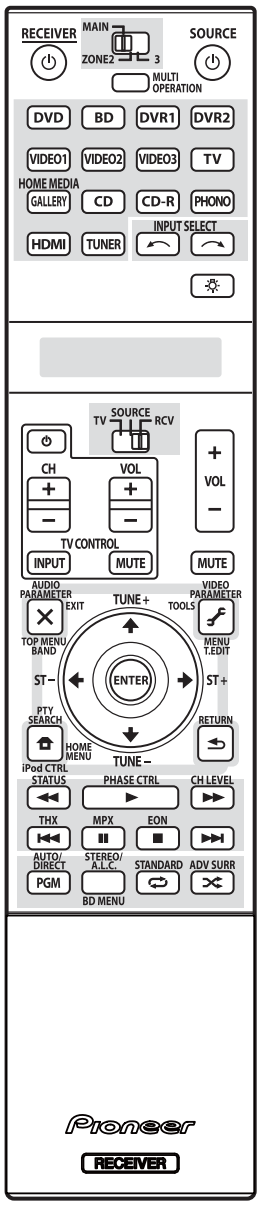
Points to be watched for swarf





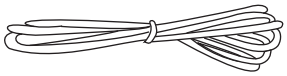
If a screw at any of these points needs to be removed for service,
be sure to check that the swarf is not on the screw before refastening.

2. SPECIFICATIONS
2.1 ACCESSORIES

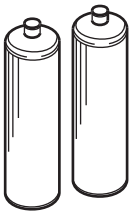


Remote Control Unit
(AXD7521)

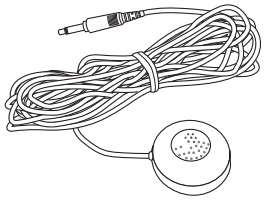
AM Loop Antenna
(ATB7013)



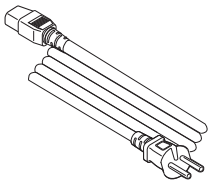
FM Wire Antenna
(ADH7030)



AA/IEC R6P
Dry Cell Batteries



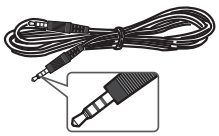
Setup Microphone
(for Auto MCACC setup)
(APM7008)



Power Cord
(ADG7062)

- Caution Sheet SP
- Warranty Card
- Operating Instructions

SERVICE PARTS



SR+ mini-plug cable
(ADE7095)

2.2 SPECIFICATIONS

Specifications

Amplifier Section

Multi channel simultaneous power output (1 kHz, 1 %, 8 Ω)
7ch total . . . . . .700 W (LX81), 630 W(LX71)
Continuous Power Output (Multichannel)
(DIN 1 kHz, THD 1 %, 6 Ω)
Front. . . . . 190 W + 190 W (LX81), 180 W + 180 W (LX71)
Center . . . . . 190 W (LX81), 180 W (LX71)
Surround . . . . . 190 W + 190 W (LX81)
180 W + 180 W (LX71)
Surround back . . . . . 190 W + 190 W (LX81)
180 W + 180 W (LX71)
(DIN 1 kHz, THD 1 %, 8 Ω)
Front. . . . . 160 W + 160 W (LX81), 150 W + 150 W (LX71)
Center . . . . . 160 W (LX81), 150 W (LX71)
Surround . . . . . 160 W + 160 W (LX81)
150 W + 150 W (LX71)
Surround back . . . . . 160 W + 160 W (LX81)
150 W + 150 W (LX71)

Total harmonic distortion. . . . . 0.05 %
(20 Hz to 20 kHz, 130 W, 8 Ω)
Rated Power Output – Stereo (20 Hz to 20 kHz, 0.09 %, 8 Ω)
. . . . . 140 W+140 W

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

Audio Section

Input (Sensitivity/Impedance)
PHONO MM . . . . . 4.2 mV/47 kΩ
LINE . . . . . .335 mV/47 kΩ
Frequency Response (LINE). . . . . .5 Hz to 100 000 Hz dB
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
[DIN (continuous rated power output/50 mW)]
LINE. . . . . 92 dB/65 dB

Composite Video / S-Video Section

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

Component Video Section

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

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

HDMI Section

Input 19-pin
Output. . . . . 19-pin (5 V, 100 mA)

Network Section

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

USB Section

USB terminal . . . . . USB2.0 Full Speed

FM Tuner Section

Frequency Range . . . . . 87.5 MHz to 108 MHz
Antenna Input . . . . . 75 Ω unbalanced

AM Tuner Section

Frequency Range . . . . . 531 kHz to 1602 kHz (9 kHz step)
Antenna . . . . . Loop antenna

Miscellaneous

Power Requirements. . . . . AC 220 V to 230 V, 50 Hz/60 Hz
Power Consumption . . . . . .330 W
In standby . . . . . .0.5 W (HDMI Control OFF)
0.7 W (HDMI Control ON)
Dimensions . . . . 420 (W) mm x 200 (H) mm x 459.5 (D) mm
Weight (without package). . . . . 18.5 kg

Furnished Parts

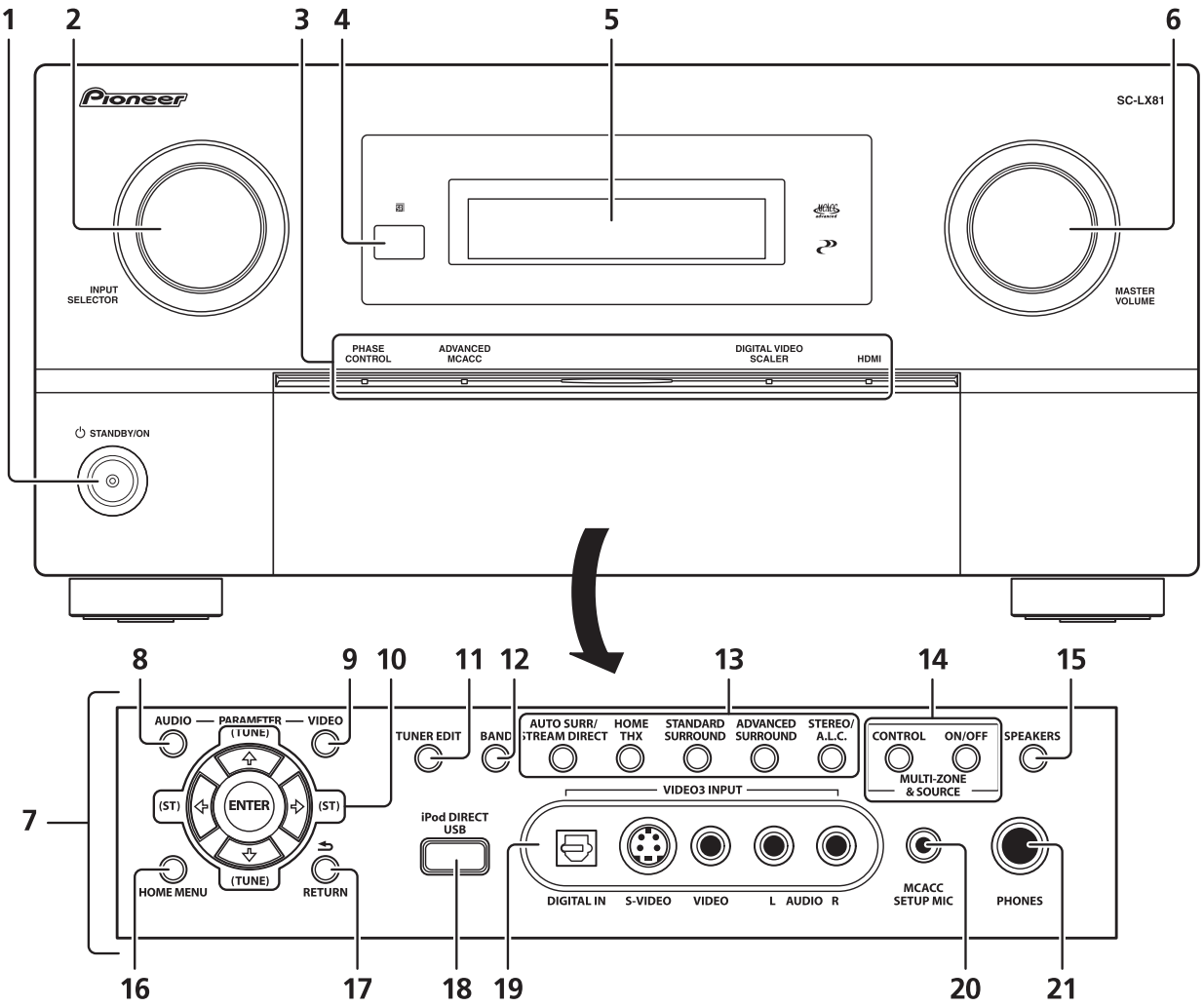
Setup microphone (for Auto MCACC Setup) 1
AA/IEC R6P dry cell batteries 2
Remote control unit. 1
AM loop antenna 1
FM wire antenna 1
Power cord 1
Warranty card 1
Operating instructions

Note

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

2.3 PANEL FACILITIES

[1] Front Panel



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

2 INPUT SELECTOR dial
Use to select an input source.

3 PHASE CONTROL indicator – Lights to indicate Phase Control or Full Band Phase Control is selected.
ADVANCED MCACC indicator – Lights when one of the Selecting MCACC presets is selected.
DIGITAL VIDEO SCALER indicator – Lights when Resolution is set to a setting other than **PURE** (for example, when the video input signal is upscaled).
HDMI indicator – Blinks when connecting an HDMI-equipped component; lights when the component is connected.

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

11 TUNER EDIT
Use with **↑/↓/←/→/ENTER** to memorize and name stations for recall.

A

12 BAND
Switches between AM and FM radio bands.

13 Listening mode buttons
AUTO SURR/STREAM DIRECT – Press to select Auto Surround or Stream Direct listening.
HOME THX – Press to select a Home THX listening mode.
STANDARD SURROUND – Press for Standard decoding and to switch between the various DD Pro Logic IIx and Neo:6 options.
ADVANCED SURROUND – Use to switch between the various surround modes.
STEREO/A.L.C. – Switches between stereo playback, Auto level control stereo mode and Front Stage Surround Advance modes.

B

14 MULTI-ZONE & SOURCE 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.

C

16 HOME MENU
Press to access the **HOME MENU**.

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

18 iPod DIRECT USB terminal
Use to connect your Apple iPod as an audio source, or connect a USB audio device for playback.

D

19 VIDEO 3 INPUT

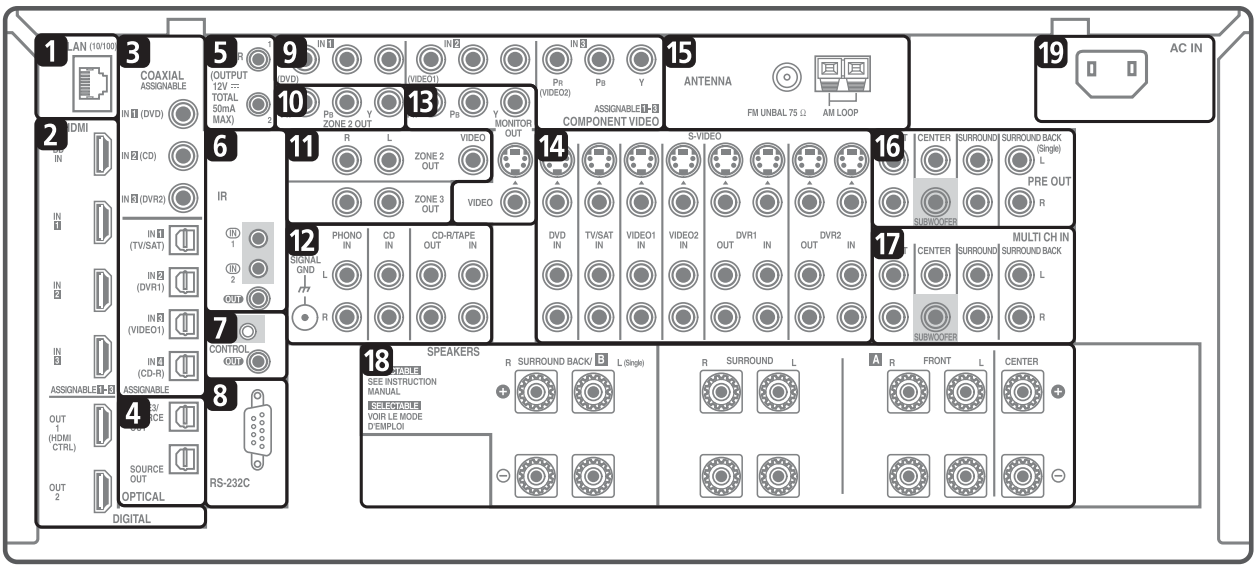
20 MCACC SETUP MIC jack
Use to connect the supplied microphone.

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

E

F

[2] Rear Panel



Caution

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

1 LAN (10/100) terminal

2 HDMI connectors (x6 (SC-LX81), x5 (SC-LX71))
Multiple inputs and one (SC-LX71) or two (SC-LX81) outputs for high-quality audio/video connection to compatible HDMI devices.

3 Optical and coaxial digital audio inputs (x7 (SC-LX81), x6 (SC-LX71))
Use for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

4 Optical digital audio outputs (x2)
Use for recording to a CD or MiniDisc recorder.
ZONE3/SOURCE OUT jack is also used for MULTI-ZONE connections.

5 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.

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

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

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

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

10 SC-LX81 only: ZONE 2 component video output
Use to connect monitors or TVs in a separate room.

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

12 Stereo analog audio source inputs/(outputs) (x4)
Use for connection to audio sources such as CD players, tape decks, turntables, etc.

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

14 Audio/video source inputs/(outputs) (x8)
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.

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

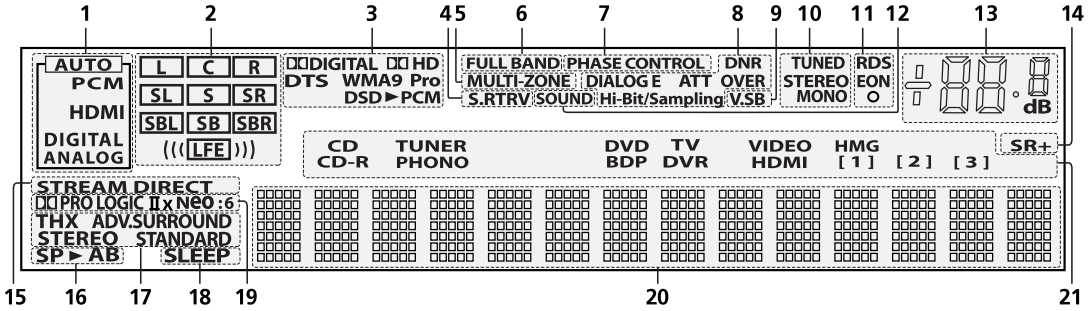
16 Multichannel pre-amplifier outputs
Use to connect separate amplifiers for front, center, surround, surround back and subwoofer channels.

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

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

19 AC power inlet
Connect the supplied power cord here.

[3] Display



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

2 Program format indicators
These change according to which channels are active in digital sources.
L – Left front channel
C – Center channel
R – Right front channel
SL – Left surround channel
S – Surround channel (mono)
SR – Right surround channel
SBL – Left surround back channel
SB – Surround back channel (mono)
SBR – Right surround back channel
LFE – Low frequency effects channel (the **((( )))** indicators light when an LFE signal is being input)

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

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

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

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

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

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

9 V.SB
Lights during Virtual surround back processing.

10 TUNER indicators
TUNED – Lights when a broadcast is being received.
STEREO – Lights when a stereo FM broadcast is being received in auto stereo mode.
MONO – Lights when the mono mode is set using **MPX**.

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

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

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

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

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

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

17 Listening mode indicators
THX – Lights when one of the Home THX modes is selected.
ADV.SURROUND – Lights when one of the Advanced Surround modes has been selected.
STEREO – Lights when stereo listening is switched on.
STANDARD – Lights when one of the Standard Surround modes is switched on.

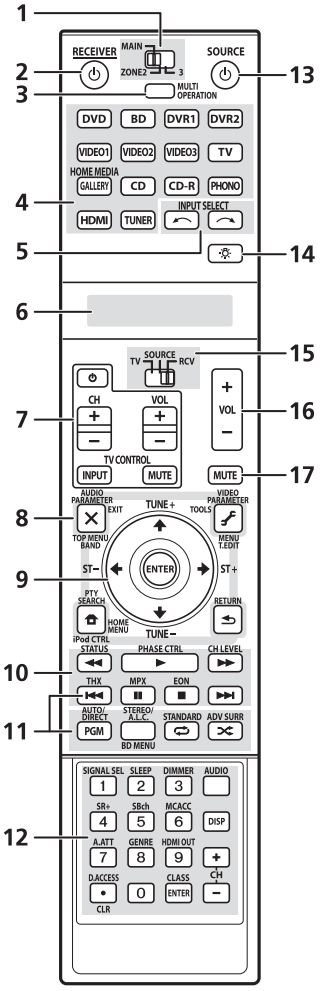
18 SLEEP
Lights when the receiver is in sleep mode.

19 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.

20 Character display
Displays various system information.

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

[4] Remote Control



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 source buttons

Press to select control of other components.

5 INPUT SELECT

Use to select the input source.

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 –

7 TV CONTROL buttons

These buttons are dedicated to control the TV assigned to **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 source button (**DVD**, **DVR 1**, **TV**, etc.).

Set the operation selector switch to **RCV** 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 +/–/ST +/–) /ENTER

Use the arrow buttons when setting up your surround sound system and the Audio or Video options. Also used to control DVD menus/ options and for deck 1 of a double cassette deck player.

Use **TUNE +/–** (⬆/⬇) to find radio frequencies and use **ST +/–** (⬅/➡) 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 source buttons.

The controls above these buttons can be accessed after you have selected the corresponding input source button (for example **DVD**, **DVR 1** 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.

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

Set the operation selector switch to **RCV** 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.

11 Receiver controls

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

STEREO/A.L.C. – Switches between the stereo playback mode and the Front Stage Surround Advance mode.

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

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

THX – Press to select a Home THX listening mode.

12 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 **RCV**:

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.

SR+ – Switches the SR+ mode on/off.

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

MCACC – Press to switch between MCACC presets.

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

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

SC-LX81 only: **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 three banks (classes) of radio station presets.

13 SOURCE ⏻

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

14 Remote control illumination button

Press to turn on/off the illumination of some of the buttons and the LCD light.

15 Remote control operation selector switch

Set to **RCV** to operate the receiver, **TV** or **SOURCE** to operate the TV or the source device.

When this switch is set to **RCV**, 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.

16 VOL +/–

Use to set the listening volume.

17 MUTE

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

3. BASIC ITEMS FOR SERVICE
3.1 CHECK POINTS AFTER SERVICING

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

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

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

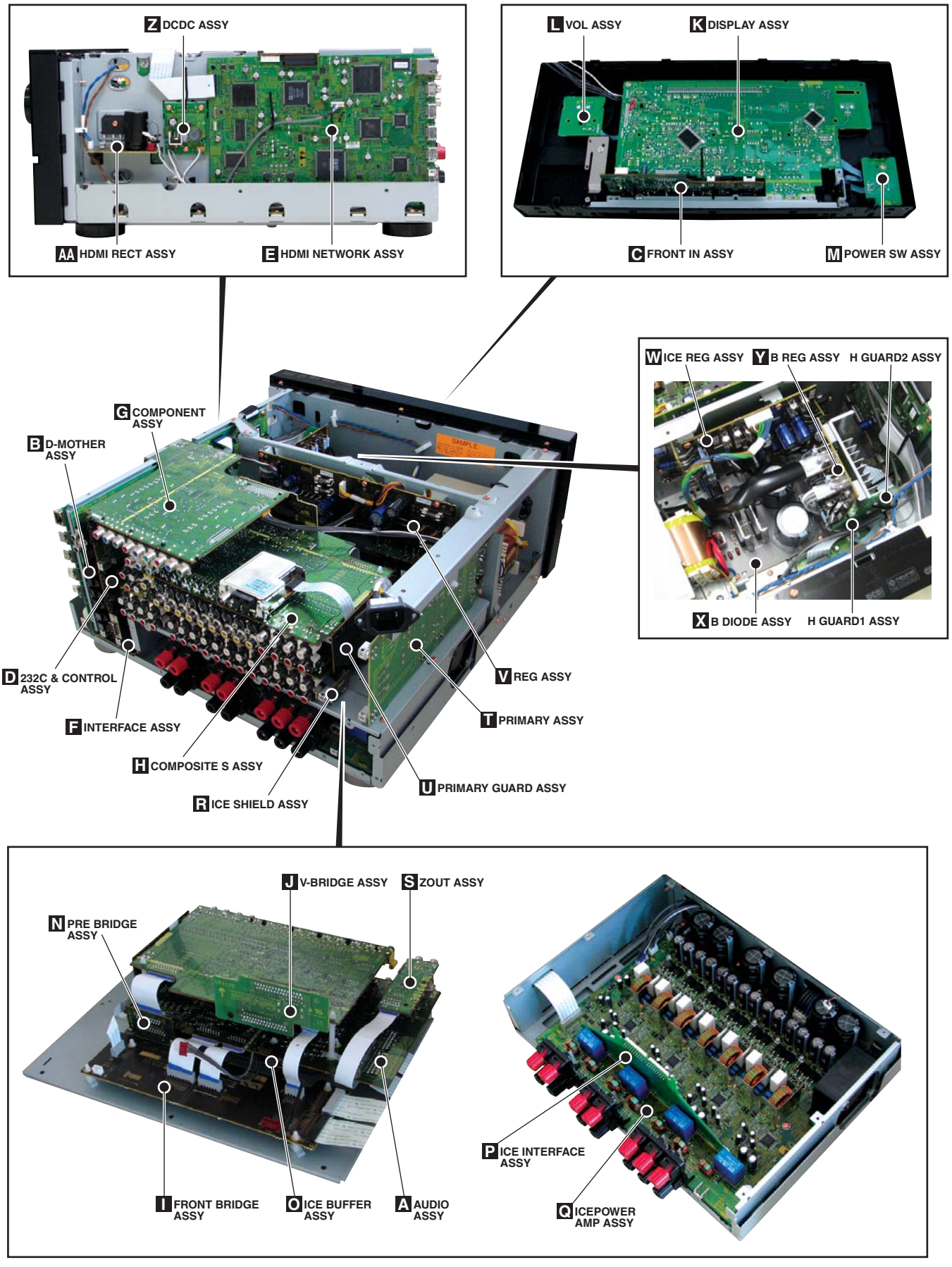
Items to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

● **Cleaning the Fan**

Before shipment, be sure to clean the fan, using the following cleaning materials:

Cleaning paper : GED-008

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-LX81 /HYSXJ5	SC-LX71 /HYSXJ5
	1..ICEPOWER AMP ASSY	AWH7017	AWH7017
NSP	1..COMPOSITE ICE ASSY	AWM8106	AWM8106
	2..COMPOSITE S ASSY	AWX9144	AWX9144
	2..ICE BUFFER ASSY	AWX9145	AWX9145
	2..PRE BRIDGE ASSY	AWX9146	AWX9146
	2..ICE SHIELD ASSY	AWX9173	AWX9173
NSP	1..PRIM DISPLAY ASSY	AWM8120	AWM8129
	2..PRIMARY ASSY	AWX9166	AWX9166
	2..HDMI RECT ASSY	AWX9156	AWX9156
	2..DISPLAY ASSY	AWX9158	AWX9238
	2..VOL ASSY	AWX9159	AWX9159
	2..POWER SW ASSY	AWX9160	AWX9160
	2..V-BRIDGE ASSY	AWX9161	AWX9161
NSP	1..DIGITAL MOTHER ASSY	AWP7058	AWP7064
	2..D-MOTHER ASSY	AWX9196	AWX9202
	2..ICE INTERFACE ASSY	AWX9137	AWX9137
	2..DCDC ASSY	AWX9138	AWX9138
	2..H GUARD2 ASSY	AWX9147	AWX9147
	2..H GUARD1 ASSY	AWX9174	AWX9174
NSP	1..COMPONENT FIN ASSY	AWQ7058	AWQ7061
	2..COMPONENT ASSY	AWX9141	AWX9211
	2..FRONT IN ASSY	AWX9142	AWX9142
	2..ZOUT ASSY	AWX9143	AWX9143
NSP	1..INTERFACE REG ASSY	AWR7067	AWR7067
	2..INTERFACE ASSY	AWX9148	AWX9148
	2..ICE REG ASSY	AWX9149	AWX9149
	2..B REG ASSY	AWX9150	AWX9150
	2..B DIODE ASSY	AWX9171	AWX9171
NSP	1..FBRIDGE REG ASSY	AWR7068	AWR7068
	2..REG ASSY	AWX9152	AWX9152
	2..FRONT BRIDGE ASSY	AWX9155	AWX9155
NSP	1..AUDIO ASSY	AWR7071	AWR7071
	2..AUDIO ASSY	AWX9206	AWX9206
	2..232C & CONTROL ASSY	AWX9209	AWX9209
	2..PRIMARY GUARD ASSY	AWX9172	AWX9172
	1..HDMI NETWORK ASSY	AWX9234	AWX9235
	1..FM/AM TUNER UNIT	AXX7248	AXX7248

3.3 JIGS LIST

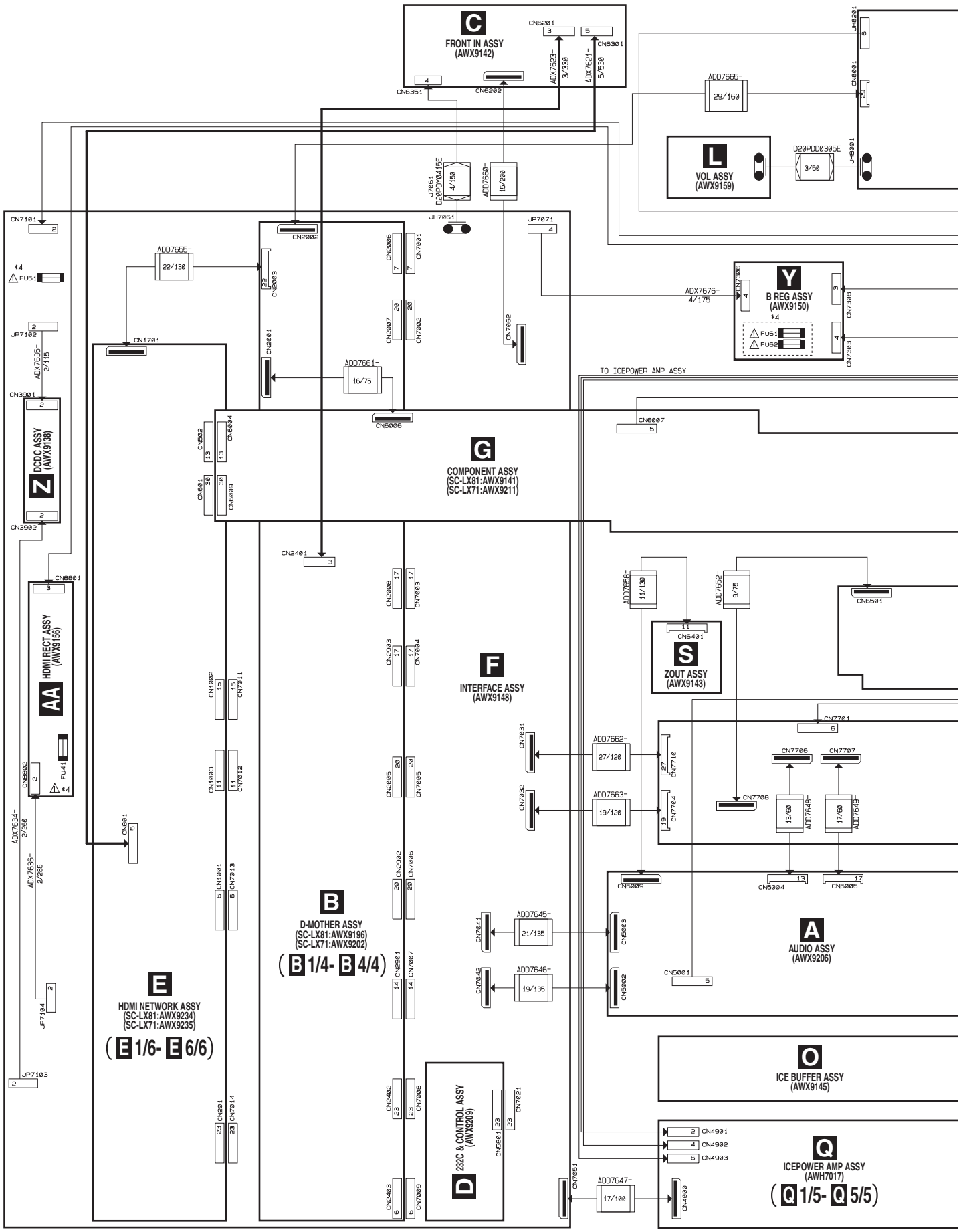
[1] Jigs List

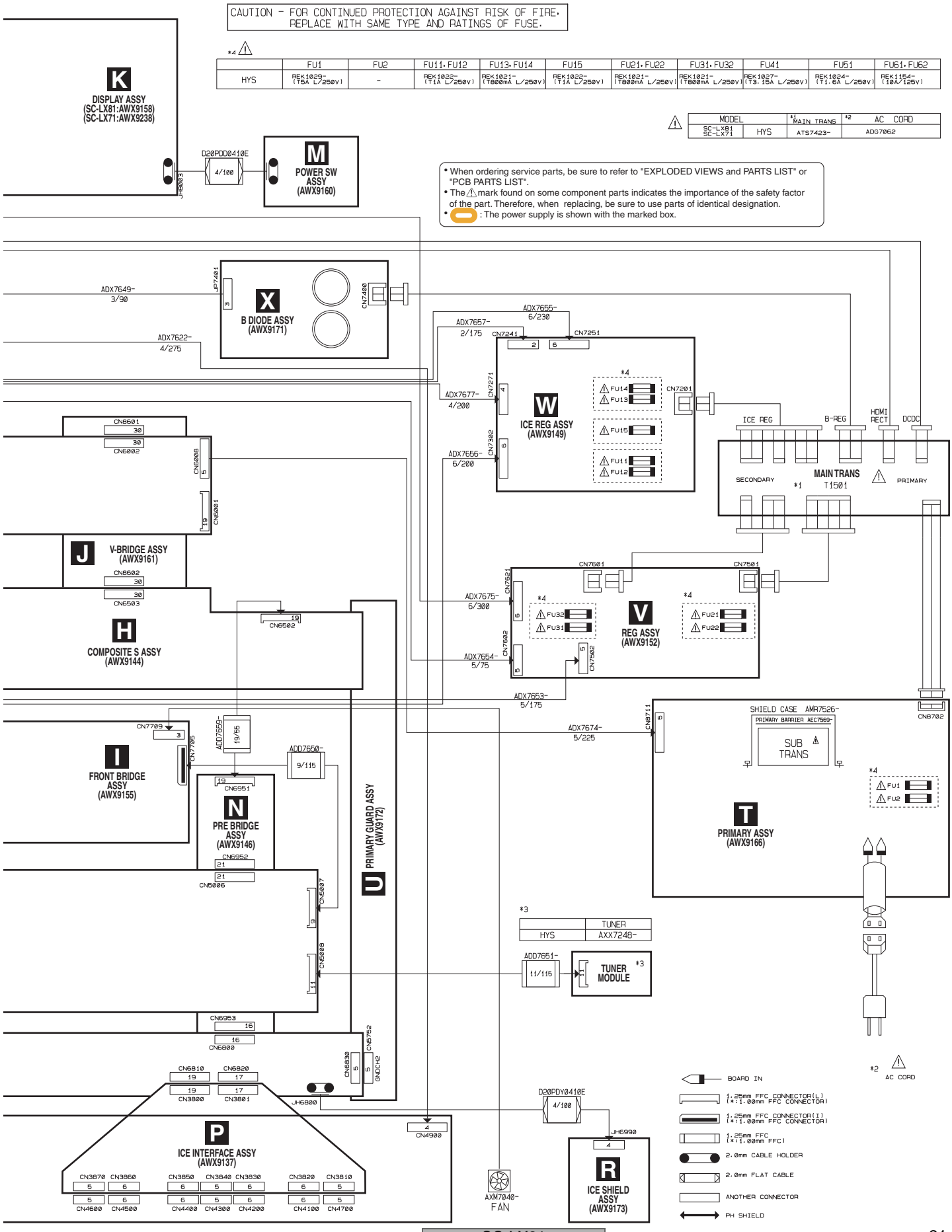
Name	Jig No.	Remarks
27P FFC	GGD1588	Diagnosis
19P FFC	GGD1589	Diagnosis
21P FFC	GGD1590	Diagnosis
16P FFC	GGD1591	Diagnosis
30p+13p board to board extension cable	GGD1592	Diagnosis
17p+19p board to board extension cable	GGD1593	Diagnosis
5p extension cable	GGD1594	Diagnosis

[2] Lubricants and Glues List

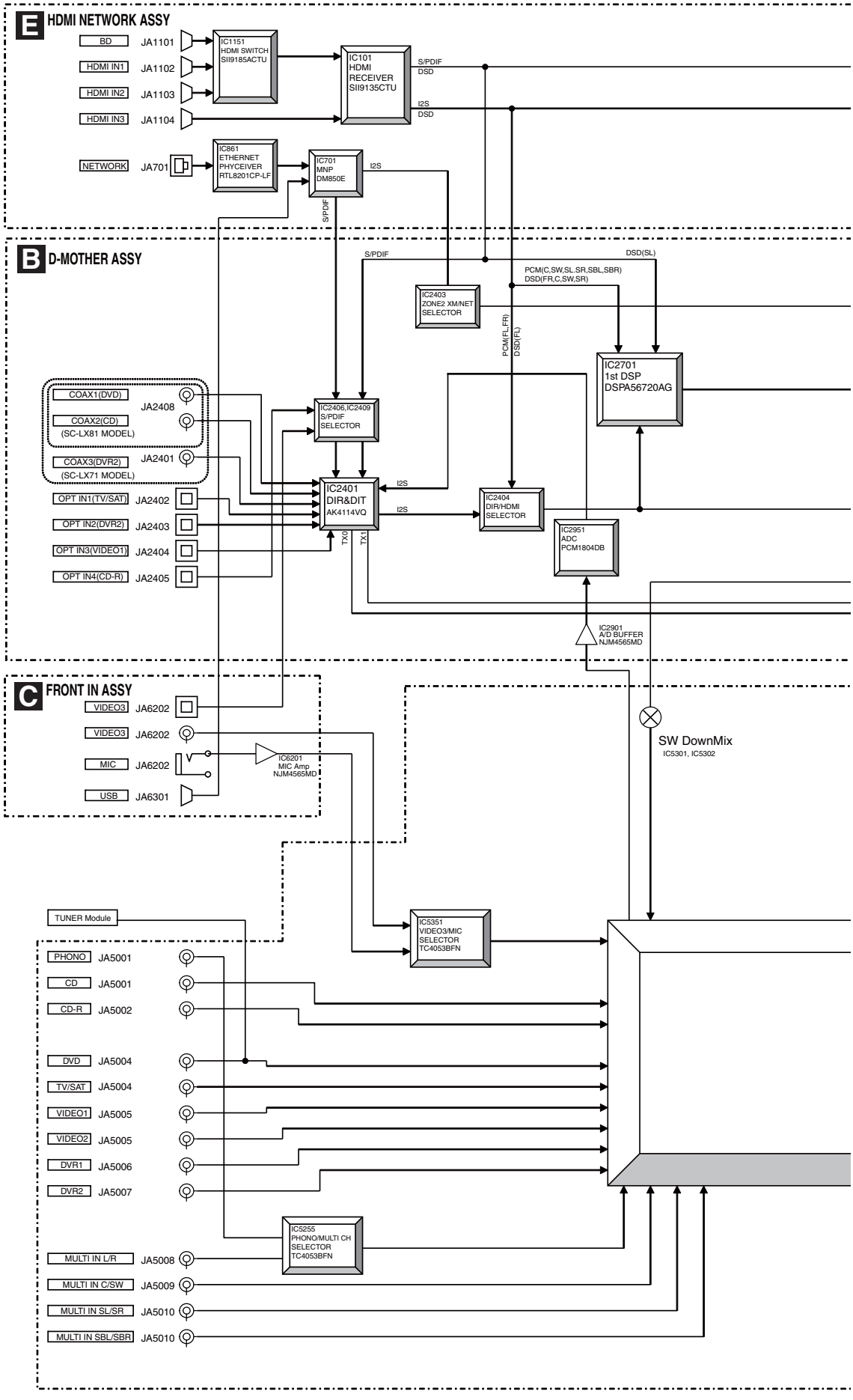
Name	Lubricants and Glues No.	Remarks
Lubicating Oil	GYA1001	Refer to “9.5 FRONT PANEL SECTION”
Silicone Grease	GEM1057	Refer to “9.3 CHASSIS SECTION”

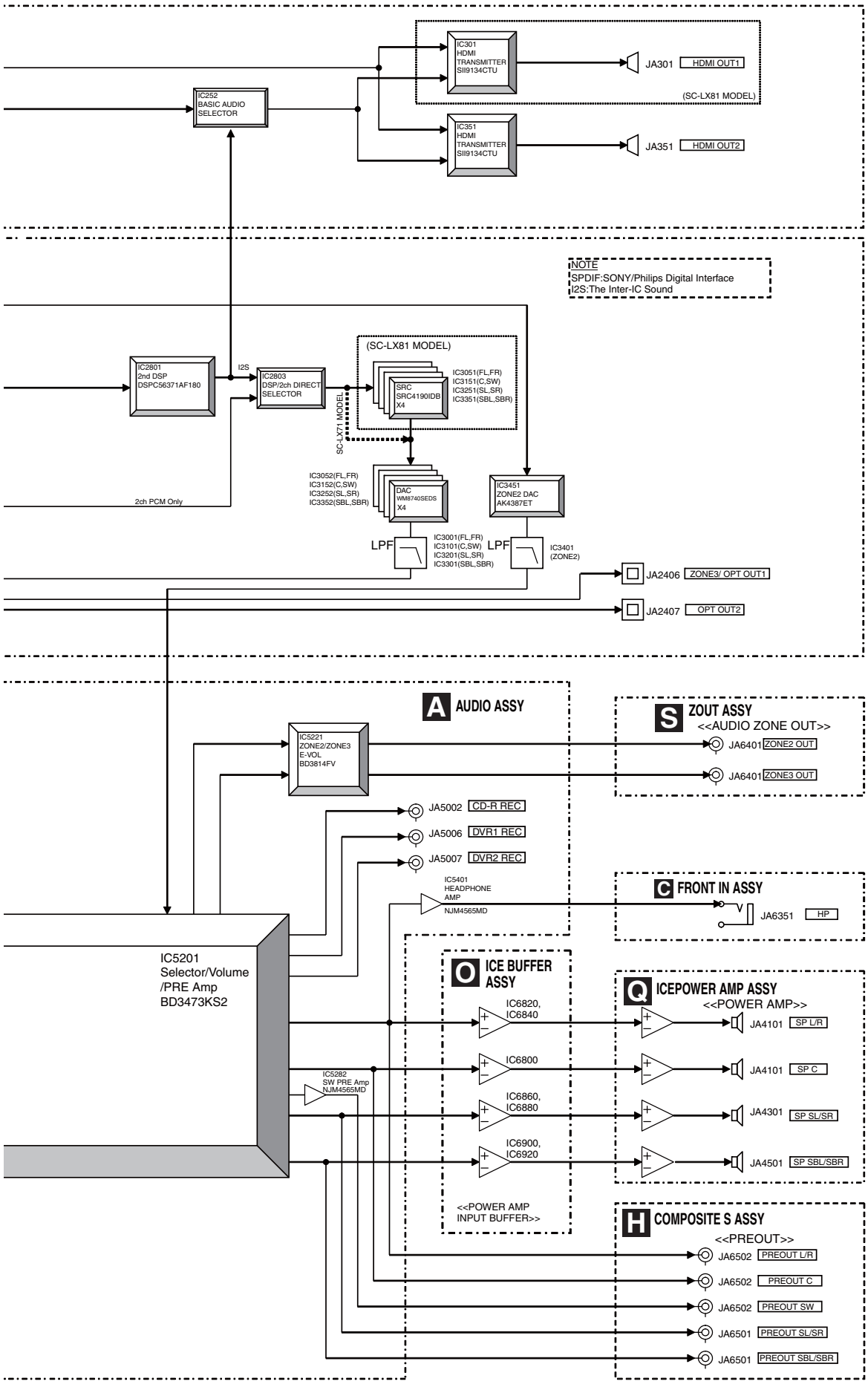
4. BLOCK DIAGRAM
4.1 OVERALL WIRING DIAGRAM



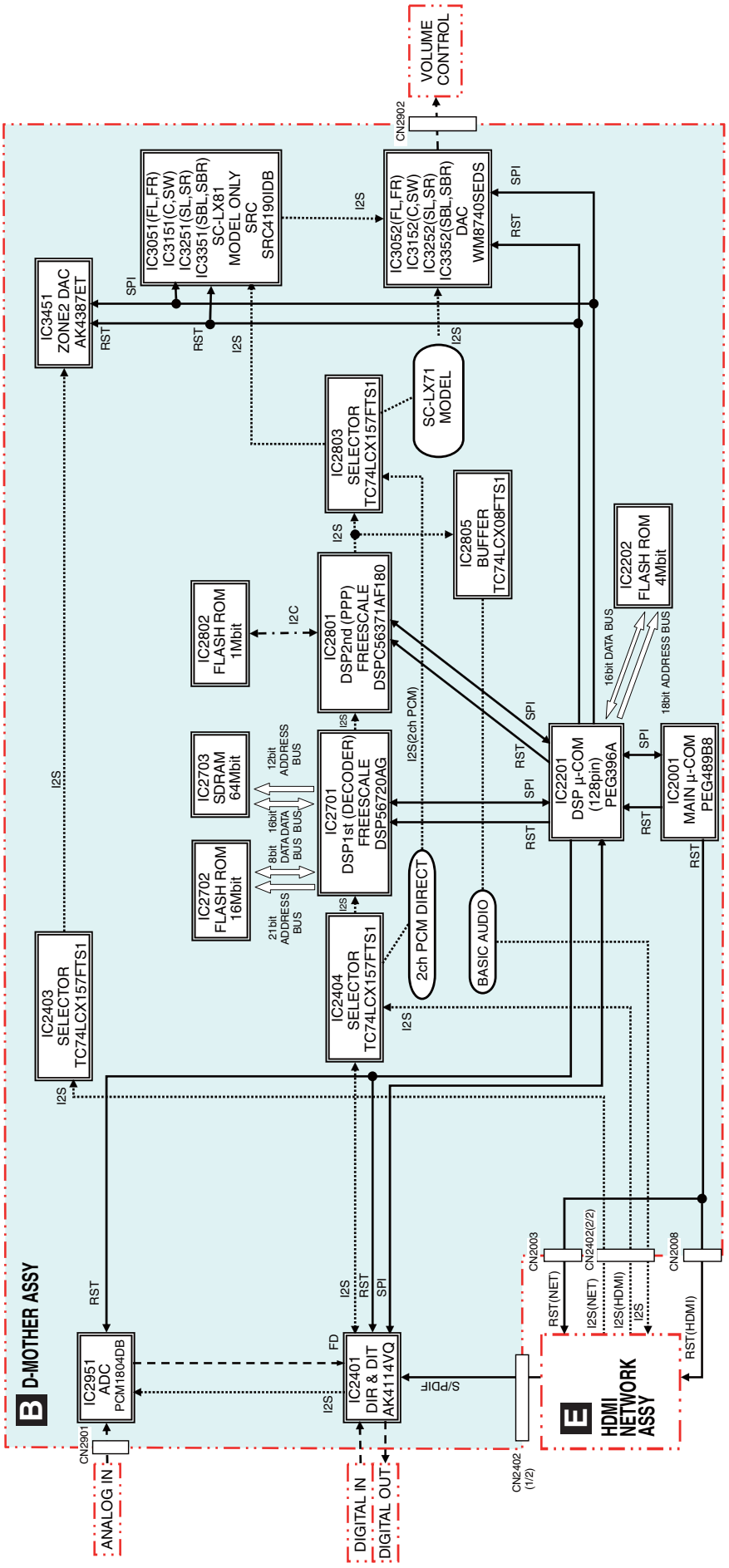

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.
*4
HYS | FU1 REK1029- (T5A L/250V) | FU2 - | FU11,FU12 REK1022- (T1A L/250V) | FU13,FU14 REK1021- (T800mA L/250V) | FU15 REK1022- (T1A L/250V) | FU21,FU22 REK1021- (T800mA L/250V) | FU31,FU32 REK1021- (T800mA L/250V) | FU41 REK1027- (T3.15A L/250V) | FU51 REK1024- (T1.6A L/250V) | FU61,FU62 REK1154- (10A/125V)
MODEL: SC-LX81 / SC-LX71 | HYS | *1 MAIN TRANS ATS7423- | *2 AC CORD ADG7062
• 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.
K DISPLAY ASSY (SC-LX81:AWX9158) (SC-LX71:AWX9238)
M POWER SW ASSY (AWX9160)
X B DIODE ASSY (AWX9171)
W ICE REG ASSY (AWX9149)
V REG ASSY (AWX9152)
J V-BRIDGE ASSY (AWX9161)
H COMPOSITE S ASSY (AWX9144)
I FRONT BRIDGE ASSY (AWX9155)
N PRE BRIDGE ASSY (AWX9146)
U PRIMARY GUARD ASSY (AWX9172)
T PRIMARY ASSY (AWX9166)
P ICE INTERFACE ASSY (AWX9137)
R ICE SHIELD ASSY (AWX9173)
MAIN TRANS T1501
SECONDARY
PRIMARY
ICE REG
B-REG
HDMI RECT
DCDC
SHIELD CASE AMA7526-
PRIMARY BARRIER AEC7569-
SUB TRANS
TUNER MODULE
*3 TUNER HYS AXX7248-
AXM7040- FAN
*2 AC CORD
BOARD IN
1.25mm FFC CONNECTOR(L) (*:1.00mm FFC CONNECTOR)
1.25mm FFC CONNECTOR(I) (*:1.00mm FFC CONNECTOR)
1.25mm FFC (*:1.00mm FFC)
2.0mm CABLE HOLDER
2.0mm FLAT CABLE
ANOTHER CONNECTOR
PH SHIELD

4.2 AUDIO BLOCK DIAGRAM

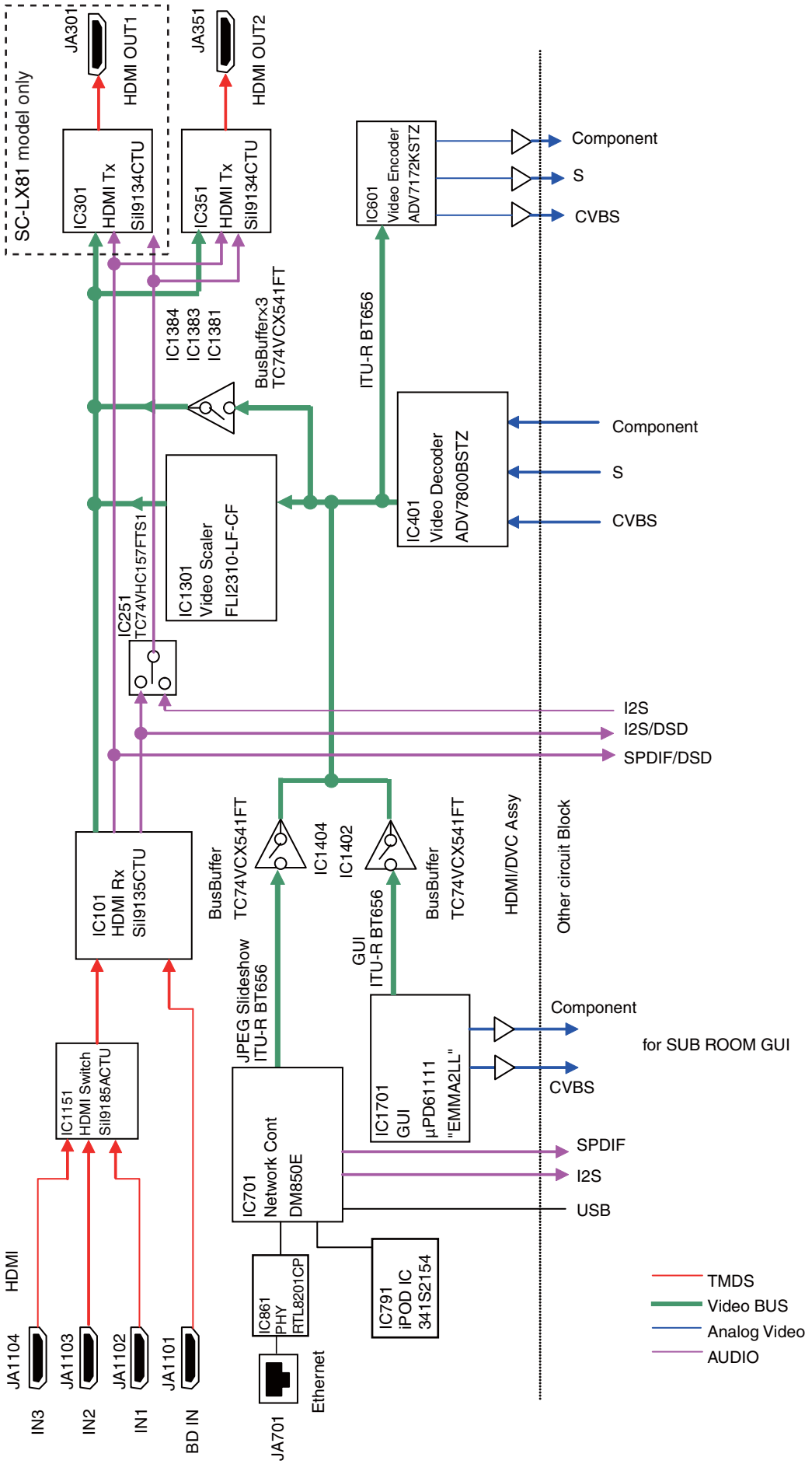



IC301
HDMI
TRANSMITTER
SII9134CTU
JA301
HDMI OUT1
(SC-LX81 MODEL)
IC252
BASIC AUDIO
SELECTOR
IC351
HDMI
TRANSMITTER
SII9134CTU
JA351
HDMI OUT2
NOTE
SPDIF:SONY/Philips Digital Interface
I2S:The Inter-IC Sound
IC2801
2nd DSP
DSPC56371AF180
I2S
IC2803
DSP/2ch DIRECT
SELECTOR
(SC-LX81 MODEL)
SRC
SRC4190IDB
X4
IC3051(FL,FR)
IC3151(C,SW)
IC3251(SL,SR)
IC3351(SBL,SBR)
SC-LX71 MODEL
IC3052(FL,FR)
IC3152(C,SW)
IC3252(SL,SR)
IC3352(SBL,SBR)
DAC
WM8740SEDS
X4
IC3451
ZONE2 DAC
AK4387ET
2ch PCM Only
LPF
IC3001(FL,FR)
IC3101(C,SW)
IC3201(SL,SR)
IC3301(SBL,SBR)
LPF
IC3401
(ZONE2)
JA2406
ZONE3/ OPT OUT1
JA2407
OPT OUT2
A AUDIO ASSY
IC5221
ZONE2/ZONE3
E-VOL
BD3814FV
JA5002
CD-R REC
JA5006
DVR1 REC
JA5007
DVR2 REC
IC5401
HEADPHONE
AMP
NJM4565MD
IC5201
Selector/Volume
/PRE Amp
BD3473KS2
IC5282
SW PRE Amp
NJM4565MD
O ICE BUFFER
ASSY
IC6820,
IC6840
IC6800
IC6860,
IC6880
IC6900,
IC6920
<<POWER AMP
INPUT BUFFER>>
S ZOUT ASSY
<<AUDIO ZONE OUT>>
JA6401
ZONE2 OUT
JA6401
ZONE3 OUT
C FRONT IN ASSY
JA6351
HP
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>>
JA6502
PREOUT L/R
JA6502
PREOUT C
JA6502
PREOUT SW
JA6501
PREOUT SL/SR
JA6501
PREOUT SBL/SBR

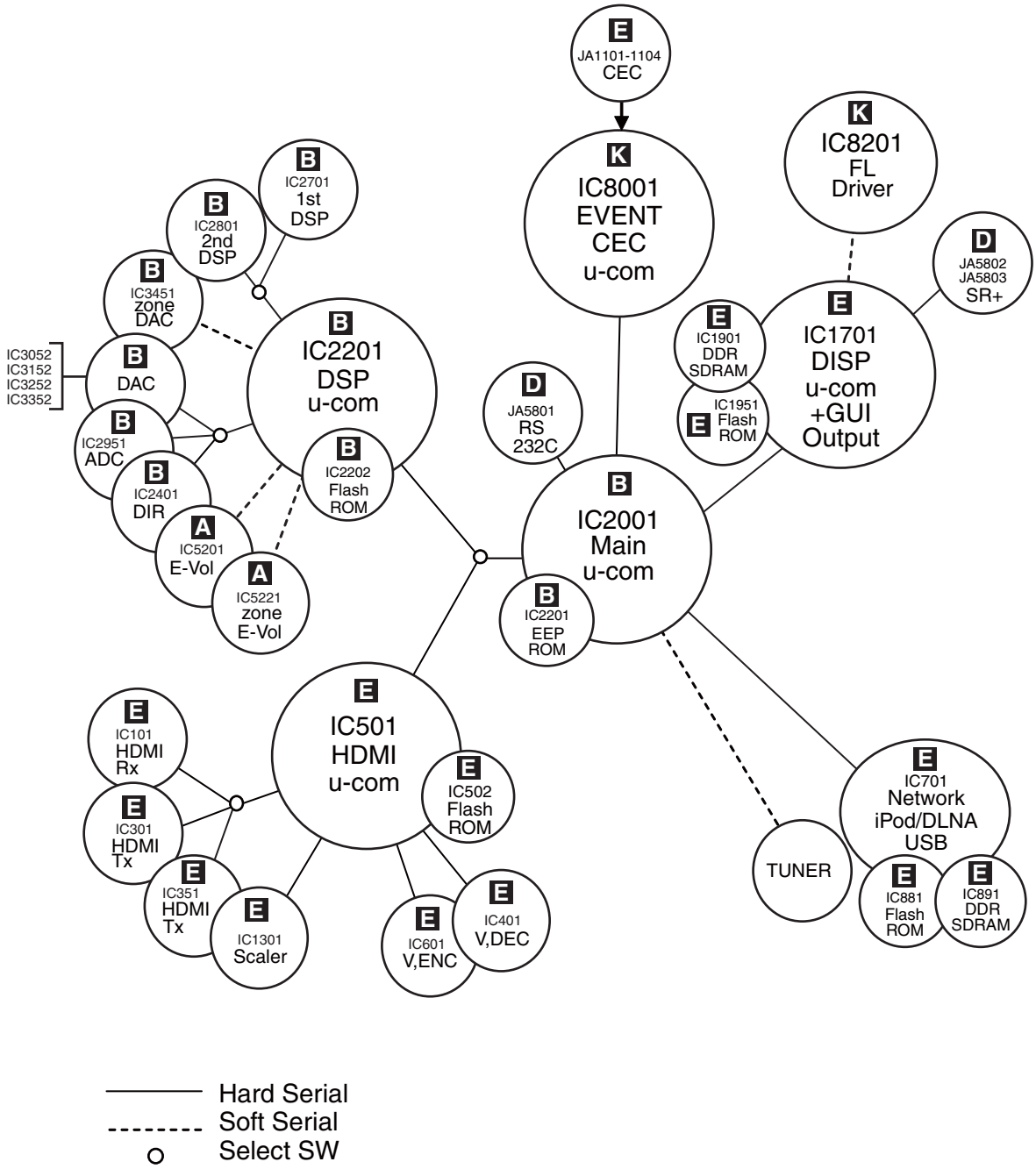
4.3 DSP BLOCK DIAGRAM



4.4 HDMI NETWORK BLOCK DIAGRAM



4.5 MICROCOMPUTER BLOCK DIAGRAM



A

B

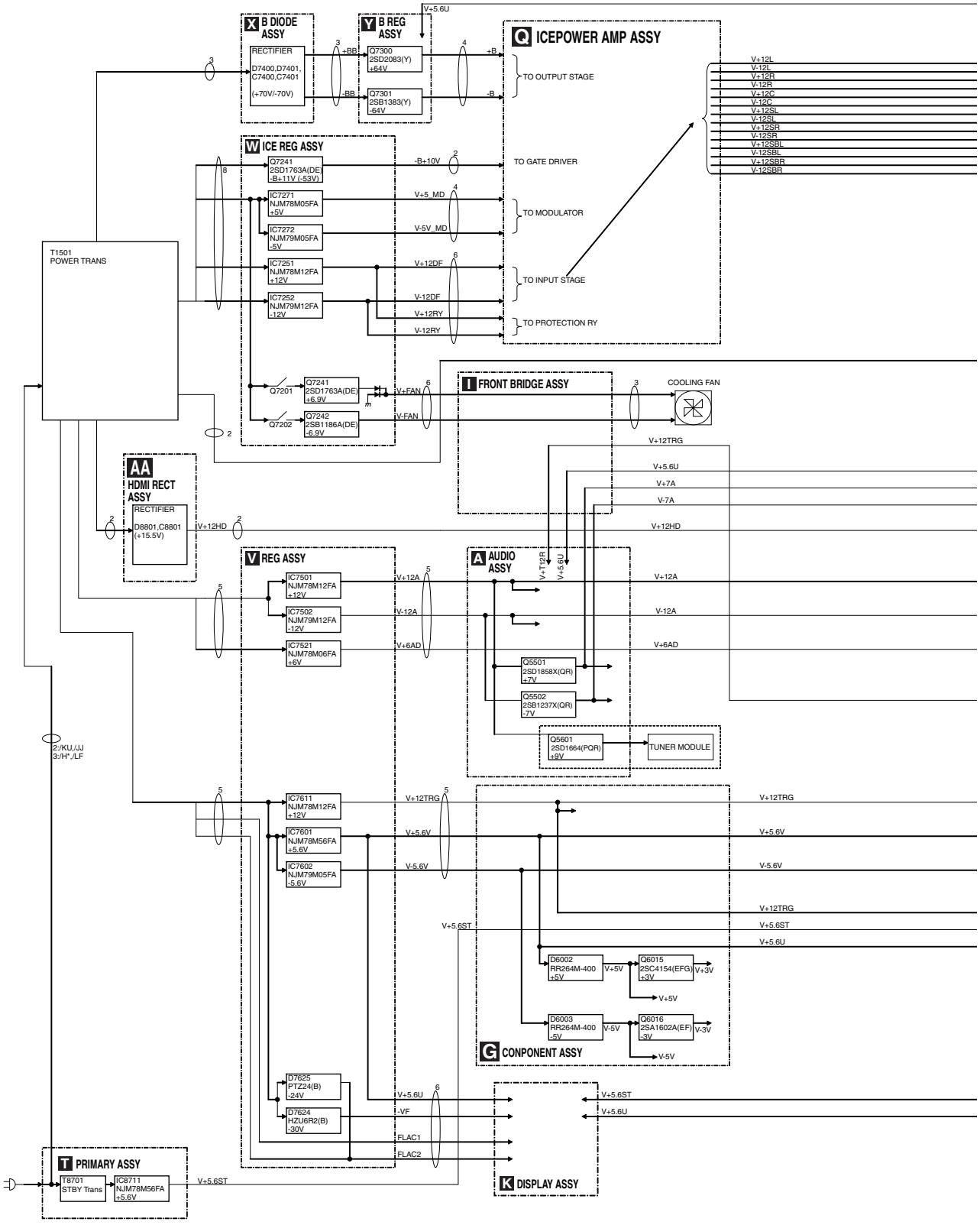
C

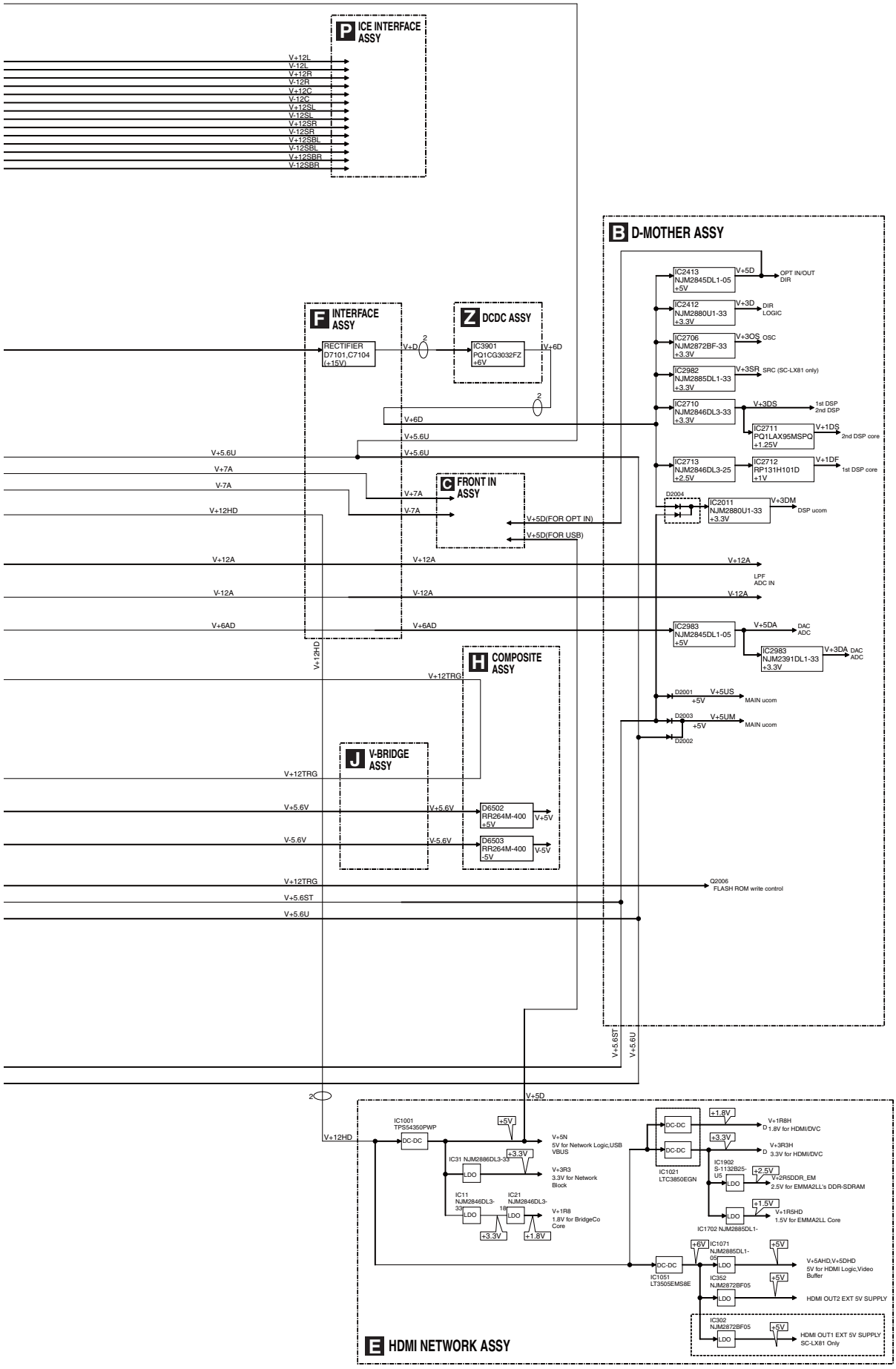
D

E

F

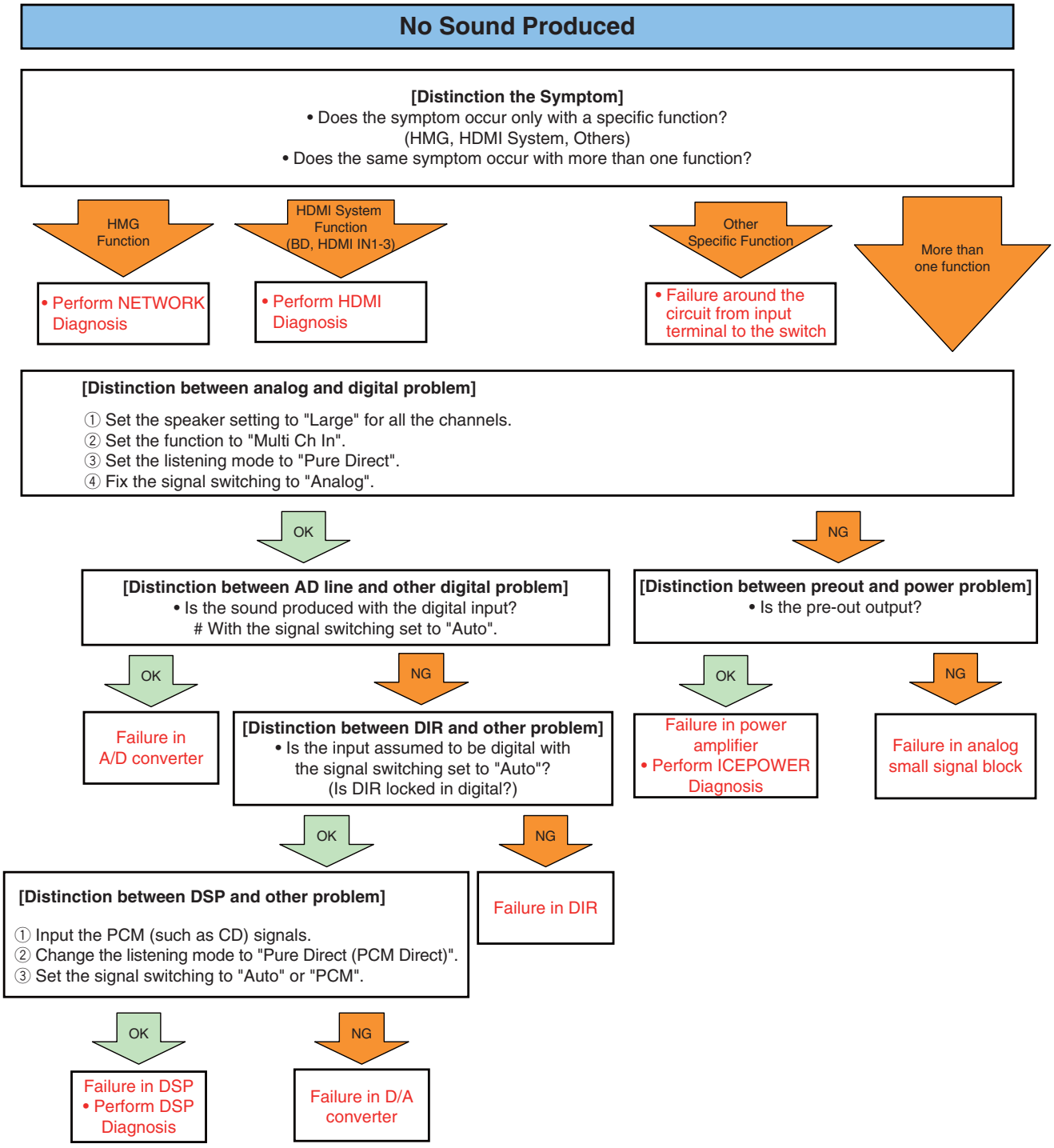
4.6 POWER BLOCK DIAGRAM




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
B D-MOTHER ASSY
IC2413 NJM2845DL1-05 +5V
V+5D
OPT IN/OUT DIR
IC2412 NJM2880U1-33 +3.3V
V+3D
DIR LOGIC
IC2706 NJM2872BF-33 +3.3V
V+3OS
OSC
IC2982 NJM2885DL1-33 +3.3V
V+3SR
SRC (SC-LX81 only)
IC2710 NJM2846DL3-33 +3.3V
V+3DS
1st DSP 2nd DSP
IC2711 PQ1LAX95MSPQ +1.25V
V+1DS
2nd DSP core
IC2713 NJM2846DL3-25 +2.5V
IC2712 RP131H101D +1V
V+1DF
1st DSP core
D2004
IC2011 NJM2880U1-33 +3.3V
V+3DM
DSP ucom
F INTERFACE ASSY
RECTIFIER D7101,C7104 (+15V)
V+D
Z DCDC ASSY
IC3901 PQ1CG3032FZ +6V
IV+6D
V+6D
V+5.6U
V+7A
V-7A
V+12HD
C FRONT IN ASSY
V+5D(FOR OPT IN)
V+5D(FOR USB)
V+12A
V-12A
V+6AD
LPF ADC IN
IC2983 NJM2845DL1-05 +5V
V+5DA
DAC ADC
IC2983 NJM2391DL1-33 +3.3V
V+3DA
DAC ADC
V+12HD
H COMPOSITE ASSY
V+12TRG
D2001 +5V
V+5US
MAIN ucom
D2003 +5V
V+5UM
MAIN ucom
D2002
J V-BRIDGE ASSY
V+5.6V
V-5.6V
D6502 RR264M-400 +5V
V+5V
D6503 RR264M-400 -5V
V-5V
Q2006
FLASH ROM write control
V+5.6ST
V+5D
IC1001 TPS54350PWP
DC-DC
+5V
V+5N
5V for Network Logic,USB VBUS
IC31 NJM2886DL3-33
+3.3V
LDO
V+3R3
3.3V for Network Block
IC11 NJM2846DL3-33
IC21 NJM2846DL3-18
V+1R8
1.8V for BridgeCo Core
+1.8V
IC1021 LTC3850EGN
+1.8V
V+1R8H
1.8V for HDMI/DVC
+3.3V
V+3R3H
3.3V for HDMI/DVC
IC1902 S-1132B25-U5
+2.5V
V+2R5DDR_EM
2.5V for EMMA2LL's DDR-SDRAM
+1.5V
V+1R5HD
1.5V for EMMA2LL Core
IC1702 NJM2885DL1-
IC1071 NJM2885DL1-05
+6V
+5V
IC1051 LT3505EMS8E
V+5AHD,V+5DHD
5V for HDMI Logic,Video Buffer
IC352 NJM2872BF05
HDMI OUT2 EXT 5V SUPPLY
IC302 NJM2872BF05
HDMI OUT1 EXT 5V SUPPLY SC-LX81 Only
E HDMI NETWORK ASSY

5. DIAGNOSIS
5.1 DIAGNOSIS FLOWCHART

[1] Audio Section Troubleshooting



[2] DSP Troubleshooting

1) Simplified diagnosis

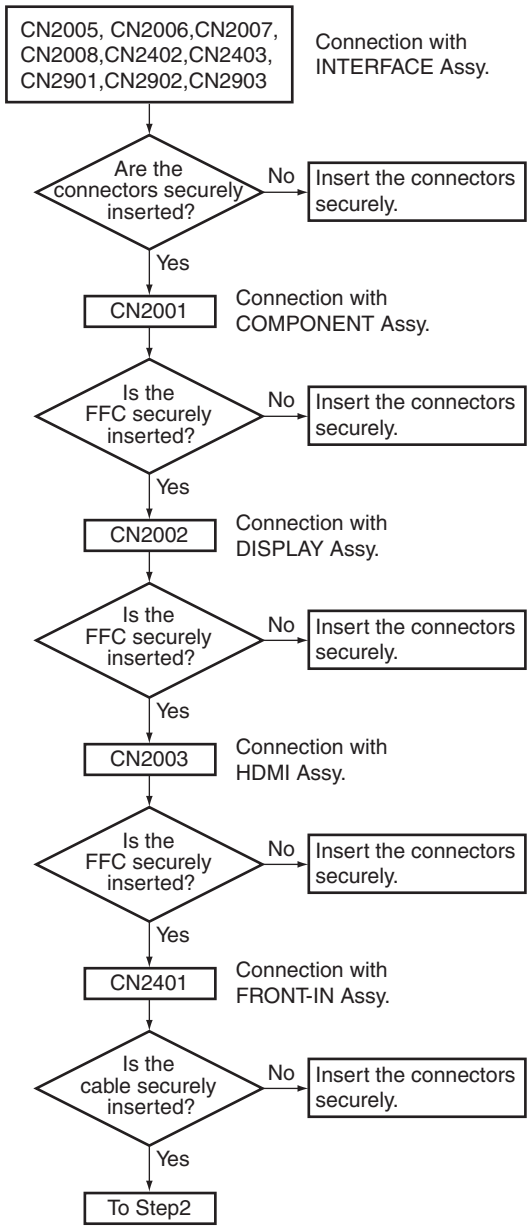
DSP block malfunction is detected.
(The part can be roughly expected just by operation of the main unit.)

- Has DSP block caused the malfunction?
  Inputing a 2ch 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.

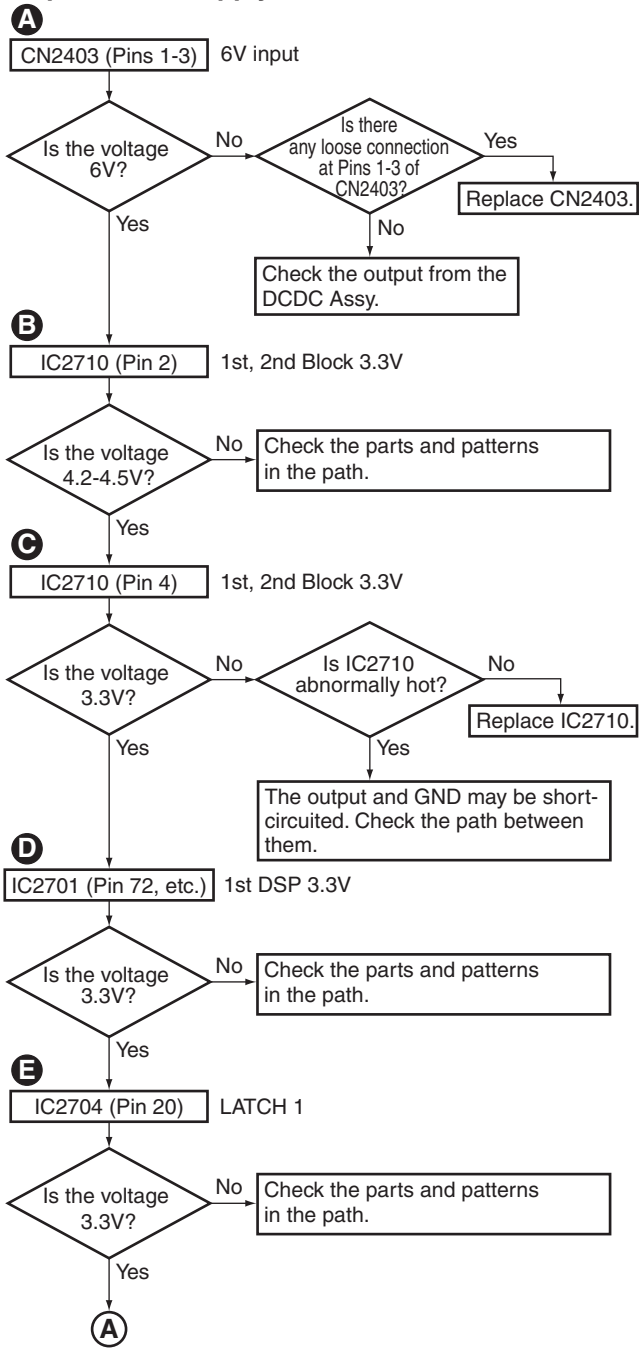
2) Troubleshooting

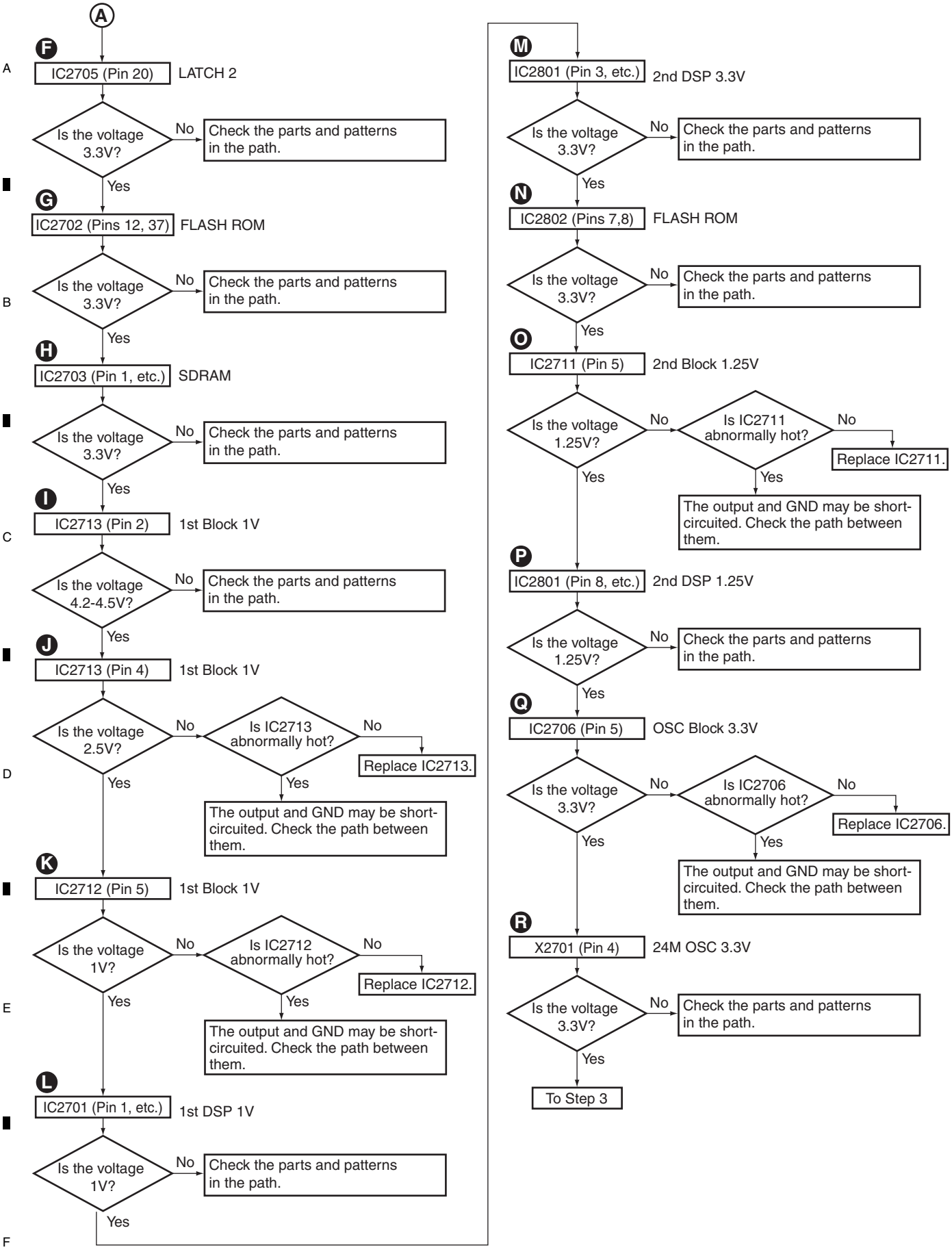
- It is assumed that there is no loose connection or damage in the LCRs.
- Refer to "DIGITAL MOTHER Assy Check Points (DSP Section)" as the parts marked Ⓐ to Ⓐⓥ in the troubleshooting are located.

Step 1: Connections

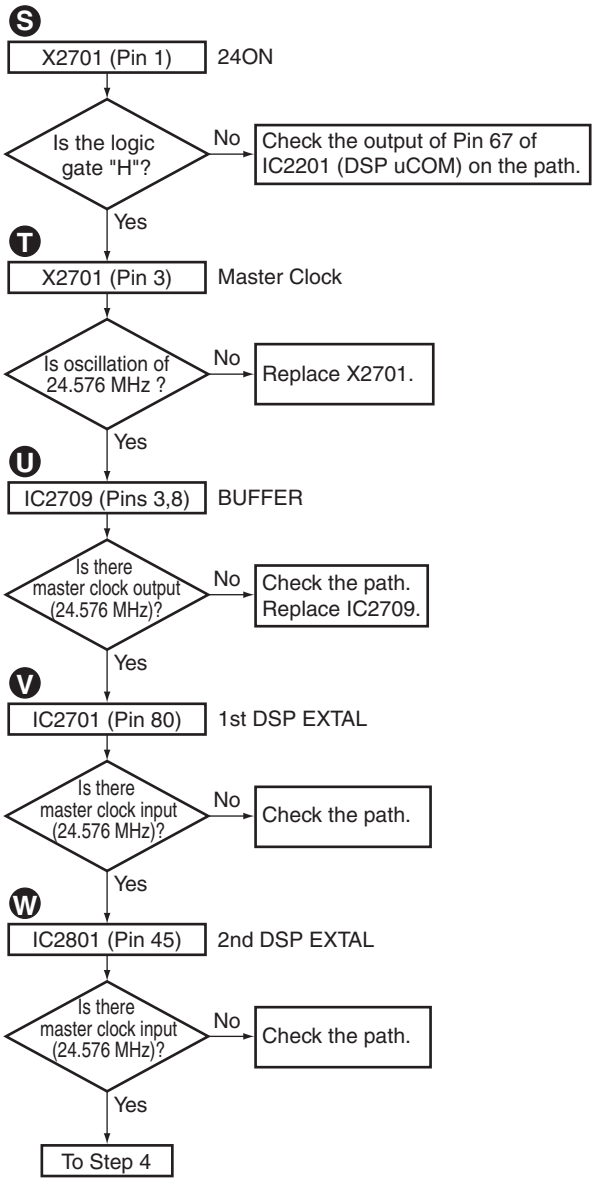


Step 2: Power supply

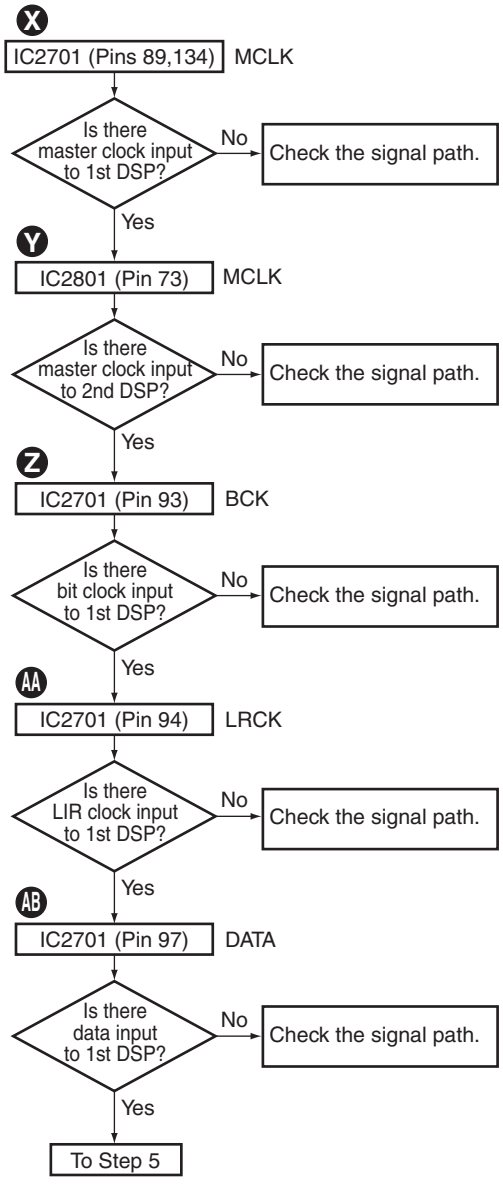



A
F
IC2705 (Pin 20)
LATCH 2
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
G
IC2702 (Pins 12, 37)
FLASH ROM
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
H
IC2703 (Pin 1, etc.)
SDRAM
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
I
IC2713 (Pin 2)
1st Block 1V
Is the voltage 4.2-4.5V?
No
Check the parts and patterns in the path.
Yes
J
IC2713 (Pin 4)
1st Block 1V
Is the voltage 2.5V?
No
Is IC2713 abnormally hot?
No
Replace IC2713.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
K
IC2712 (Pin 5)
1st Block 1V
Is the voltage 1V?
No
Is IC2712 abnormally hot?
No
Replace IC2712.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
L
IC2701 (Pin 1, etc.)
1st DSP 1V
Is the voltage 1V?
No
Check the parts and patterns in the path.
Yes
M
IC2801 (Pin 3, etc.)
2nd DSP 3.3V
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
N
IC2802 (Pins 7,8)
FLASH ROM
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
O
IC2711 (Pin 5)
2nd Block 1.25V
Is the voltage 1.25V?
No
Is IC2711 abnormally hot?
No
Replace IC2711.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
P
IC2801 (Pin 8, etc.)
2nd DSP 1.25V
Is the voltage 1.25V?
No
Check the parts and patterns in the path.
Yes
Q
IC2706 (Pin 5)
OSC Block 3.3V
Is the voltage 3.3V?
No
Is IC2706 abnormally hot?
No
Replace IC2706.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
R
X2701 (Pin 4)
24M OSC 3.3V
Is the voltage 3.3V?
No
Check the parts and patterns in the path.
Yes
To Step 3

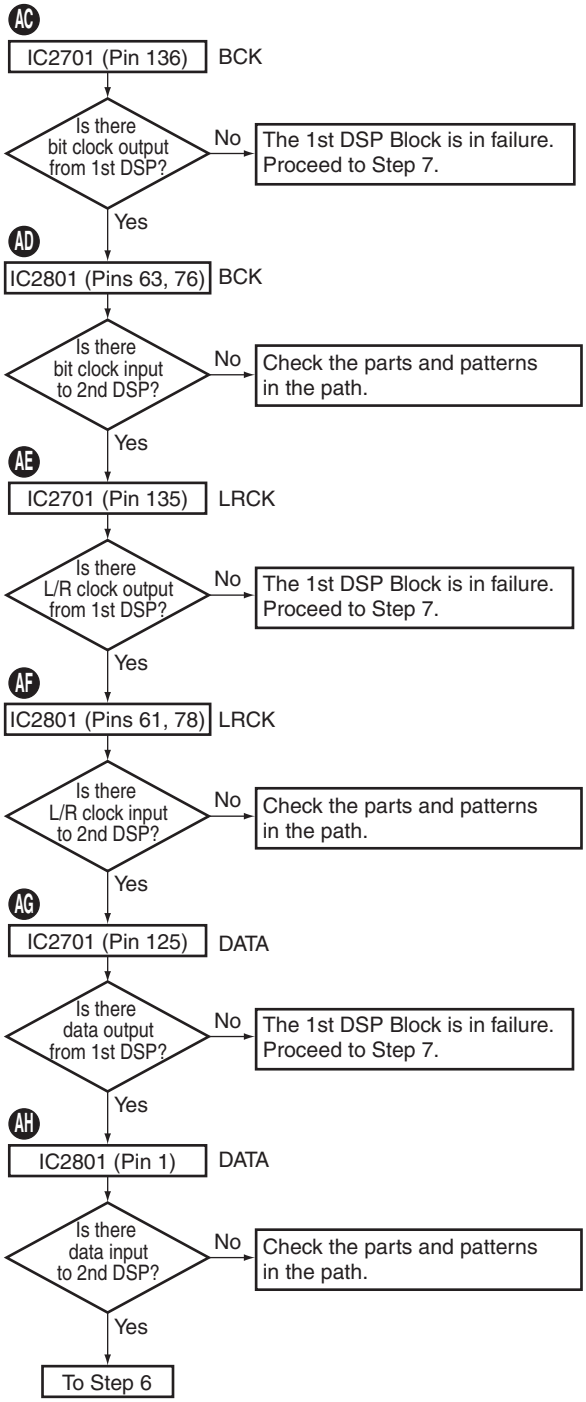
Step 3: Master Clock



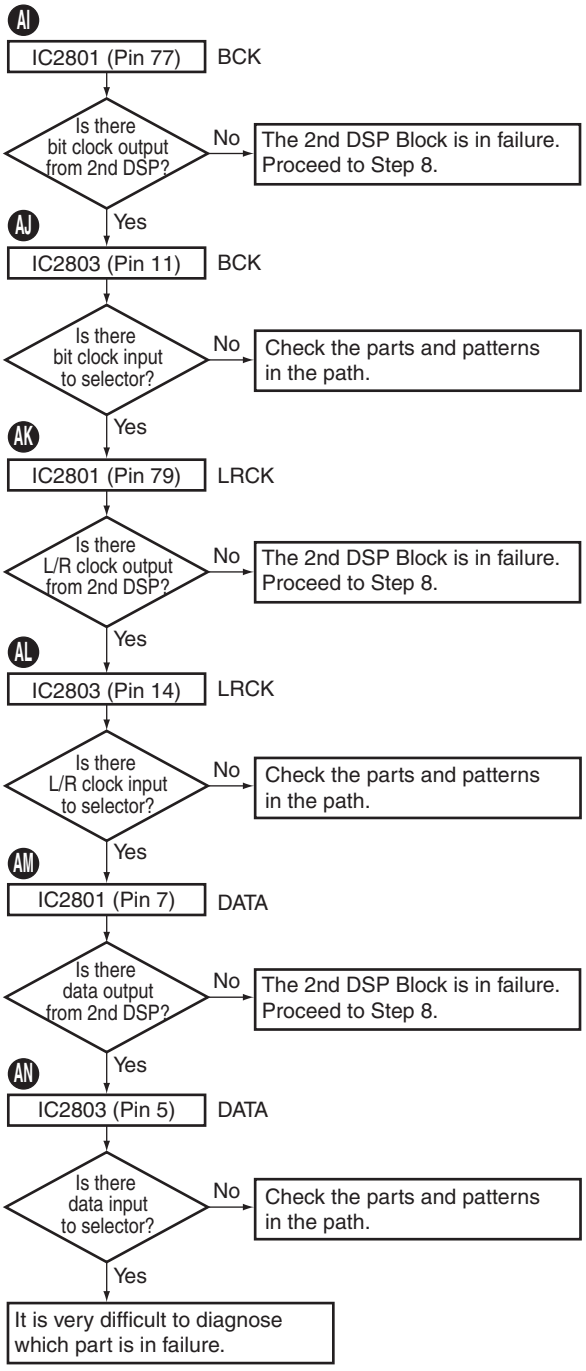
Step 4: Audio Signal



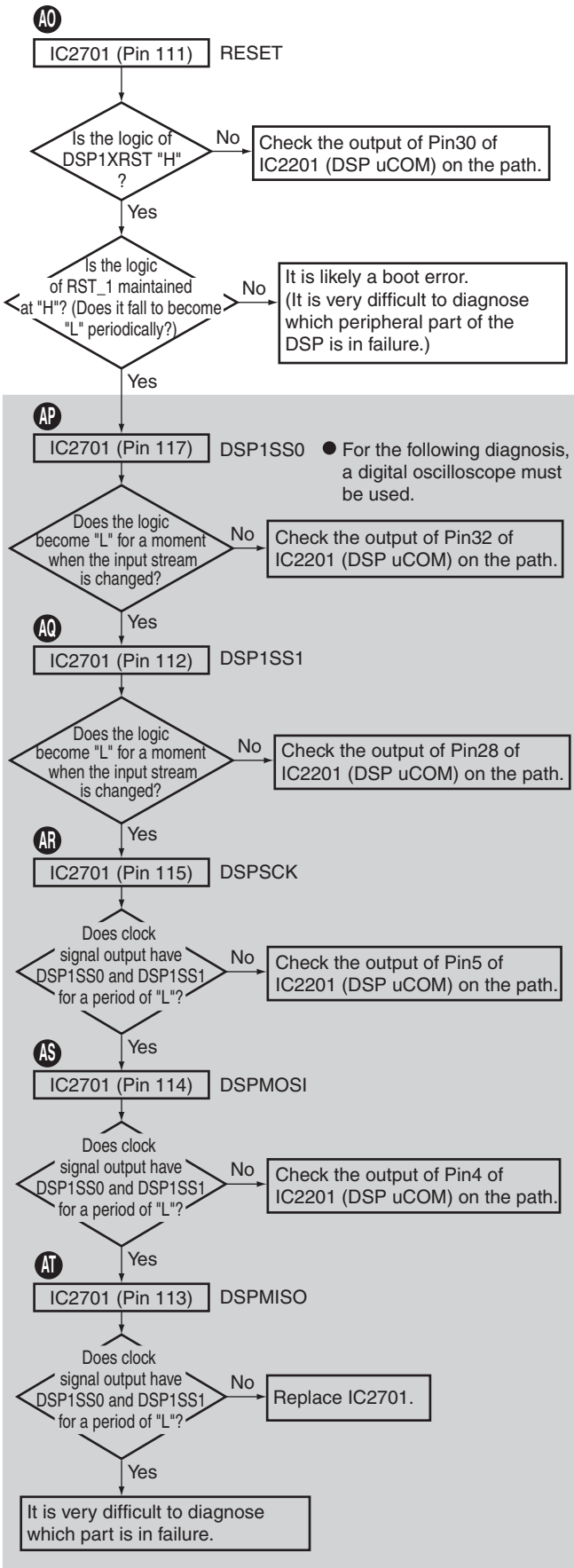
Step 5: Audio Signal



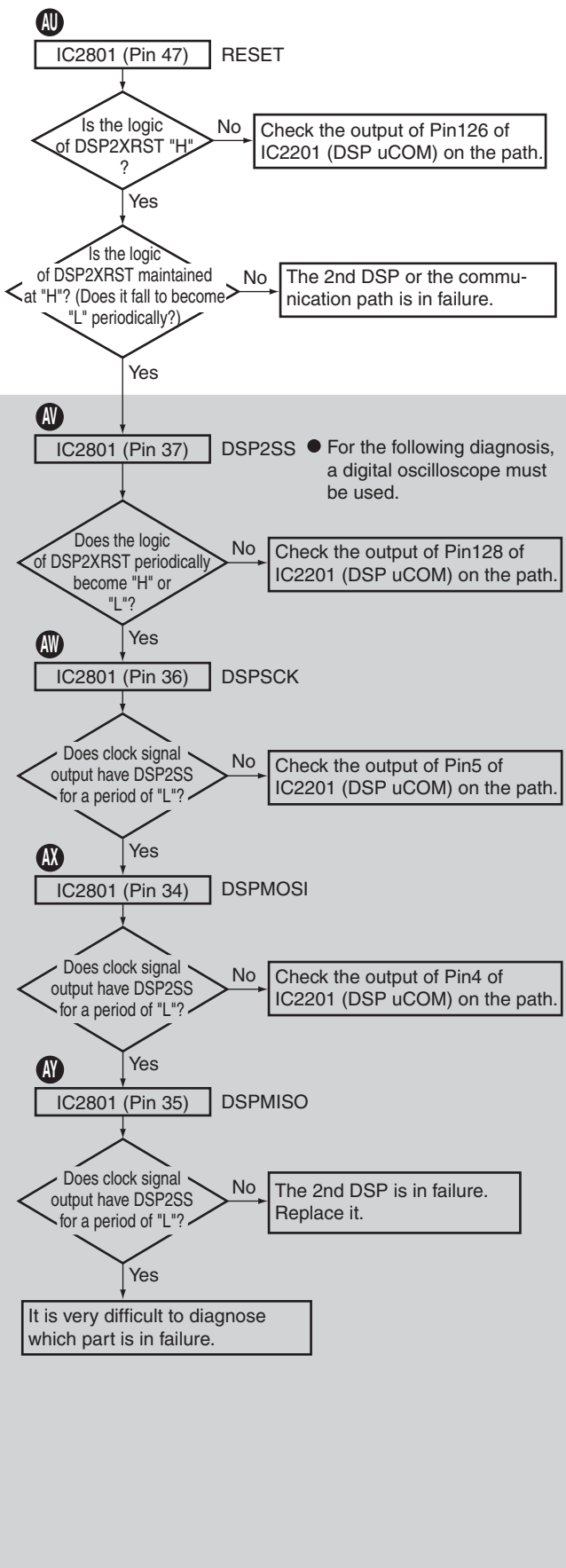
Step 6: Audio Signal



Step 7: 1st DSP

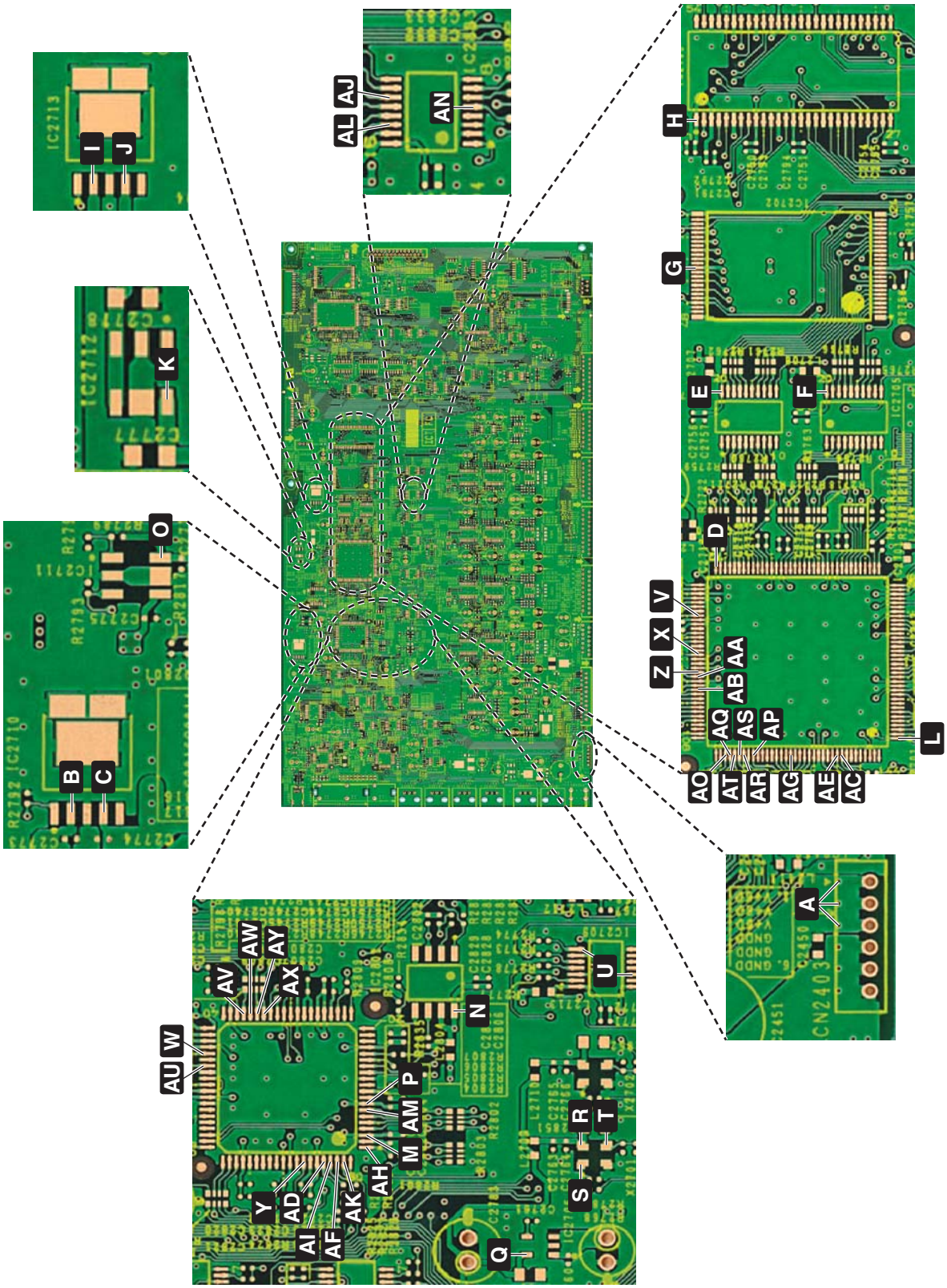


Step 8: 2nd DSP



3) D-MOTHER Assy check points (DSP section)

B D-MOTHER ASSY SIDE A



[3] HDMI Troubleshooting

• The parts marked like **A2** in the following chart are located in "HDMI/NETWORK Assy Check Points".

Common section

Step 1: Connections

CN1001 - CN1003, CN201, CN1701, CN601 — **All Connectors**

Is soldering and connections of the connectors OK?
- No → Solder the connectors correctly, insert the connectors securely.
- Yes

Step 2-1: Power supply, CLK

CN1001(Pin 4) — UNReg INPUT — **V+12HDMI**

Is the voltage 15.5 V?
- No → Diagnosis the INTERFACE Assy.
- Yes

R1057 — 6 V — **V+6HD**

Is the voltage 6 V?
- No → Check the soldering of IC1051 and the peripheries of IC1051. If soldering has not been done correctly, replace IC1051.
- Yes

R1082 — 5 V — **V+5DHD**

Is the voltage 5 V?
- No → Check the soldering of IC1082 and the peripheries of IC1082. If soldering has not been done correctly, replace IC1082.
- Yes

R1073 — 5 V — **V+5AHD**

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

R1029 — 3.3 V — **V+3R3HD**

Is the voltage 3.3 V?
- No → Check the soldering of IC1021 and the peripheries of IC1021. If soldering has not been done correctly, replace IC1021.
- Yes

R1030 — 1.8 V — **V+1R8HD**

Is the voltage 1.8 V?
- No → Check the soldering of IC1021 and the peripheries of IC1021. If soldering has not been done correctly, replace IC1021.
- Yes

L1901 — 2.5 V — **V+2R5DDR_EM**

Is the voltage 2.5 V?
- No → Check the soldering of IC1902 and the peripheries of IC1902. If soldering has not been done correctly, replace IC1902.
- Yes

L1702 — 1.5 V — **V+1R5D**

Is the voltage 1.5 V?
- No → Check the soldering of IC1702 and the peripheries of IC1702. If soldering has not been done correctly, replace IC1702.
- Yes

R1905 — 1.25 V — **A1**

Is the voltage 1.25 V?
- No → Check the soldering of IC1903 and the peripheries of IC1903. If soldering has not been done correctly, replace IC1903.
- Yes

X501 — X'TAL (microcomputer) — **B1**

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

Step 2-2: Reset

CN1003(Pin 4) — HDRST — **B2**

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

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

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

GUI(EMMA) diagnosis : To Step 6-1 → Scaler diagnosis : To Step 5-1

HDMI section

Step 3-1: Power supply, CLK

SC-LX81 only

JA301(Pin 18) — 5 V(HDMI OUT1) — **C1**

Is the voltage 6 V?
- No → Check the soldering of IC1051 and the peripheries of IC1051. If soldering has not been done correctly, replace IC1051.
- Yes

JA351(Pin 18) — 5V(HDMI OUT2/1) — **C2**

Is the voltage 6 V?
- No → Check the soldering of IC1051 and the peripheries of IC1051. If soldering has not been done correctly, replace IC1051.
- Yes

D1101 — 5V(BD IN) — **V+5E1**

Is the voltage 4.4 V?
- No → Replace D1101.
- Yes

D1102 — 5V(HDMI IN1) — **V+5E2**

Is the voltage 4.4 V?
- No → Replace D1102.
- Yes

D1103 — 5V(HDMI IN2) — **V+5E3**

Is the voltage 4.4 V?
- No → Replace D1103.
- Yes

D1104 — 5V(HDMI IN3) — **V+5E4**

Is the voltage 4.4 V?
- No → Replace D1104.
- Yes

* HDMI Switch.

L1151 — 3.3 V(Switch) — **V+3R3HD**

Is the voltage 3.3 V?
- No → Replace L1151.
- Yes

* HDMI Switch.

L1152, L1153 — 1.8 V(Switch) — **V+1R8HD**

Is the voltage 1.8 V?
- No → Replace L1152 and L1153.
- Yes

* At BD IN.

IC1151(Pin 72) — 5V-1(Switch) — **V+5R1**

Is the voltage 5 V?
- No → Check the connection. → No → Replace JA1101.
- Yes

* At HDMI IN1.

IC1151(Pin 52) — 5V-2(Switch) — **V+5R2**

Is the voltage 5 V?
- No → Check the connection. → No → Replace JA1101.
- Yes

* At HDMI IN2.

IC1151(Pin 32) — 5V-3(Switch) — **V+5R3**

Is the voltage 5 V?
- No → Check the connection. → No → Replace JA1101.
- Yes

X101 — X'TAL(HDMI Rx) — **C3**

Is oscillation of 28.322 MHz ?
- No → Check the soldering of IC101. Check the peripheries of X101. → No → Replace X101 or IC101.
- Yes

Step 3-2 : Reset

R564 — RXRST — **D4**

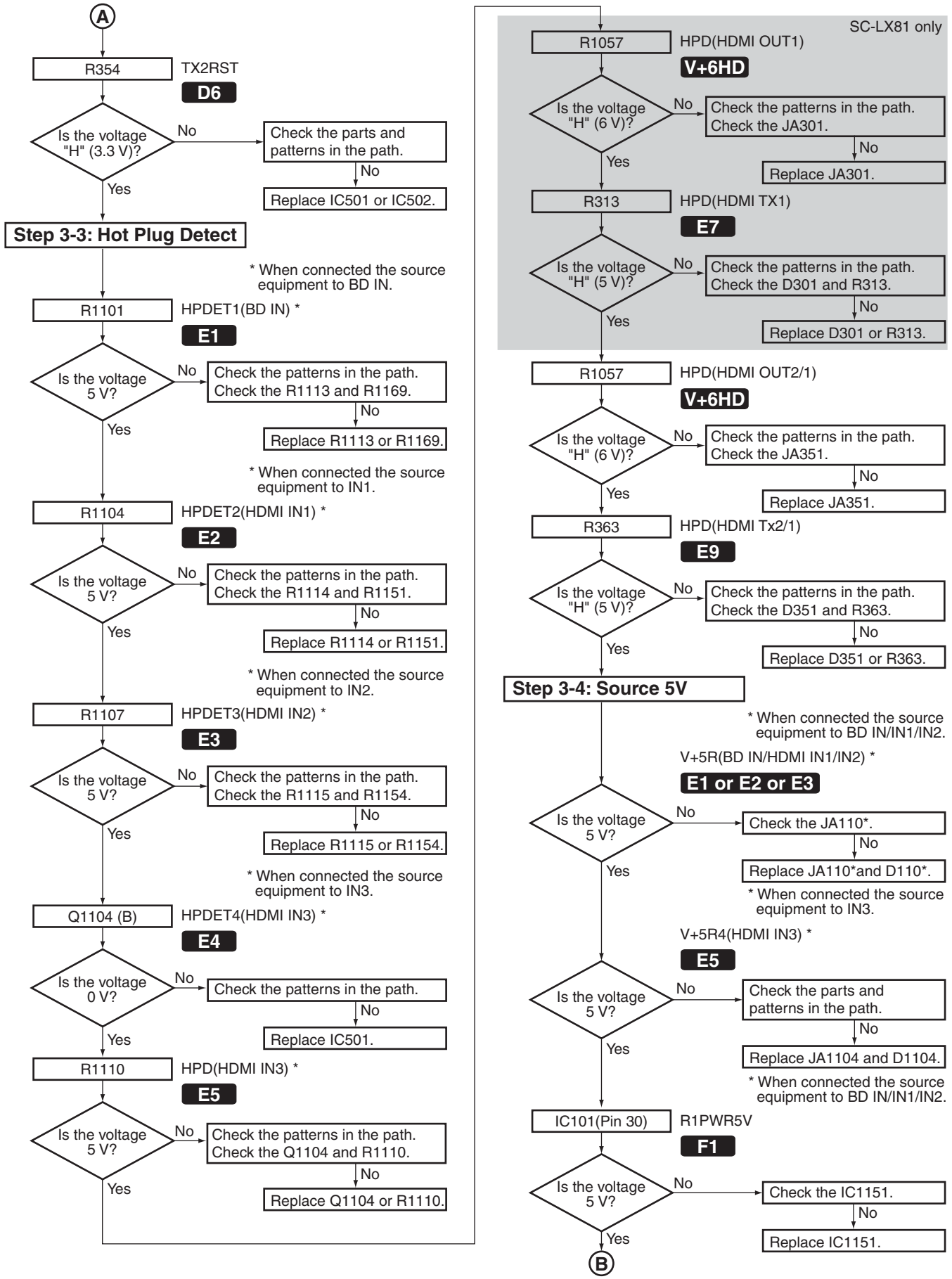
Is the voltage "H" (3.3 V)?
- No → Check the parts and patterns in the path. → No → Replace IC501 or IC502.
- Yes

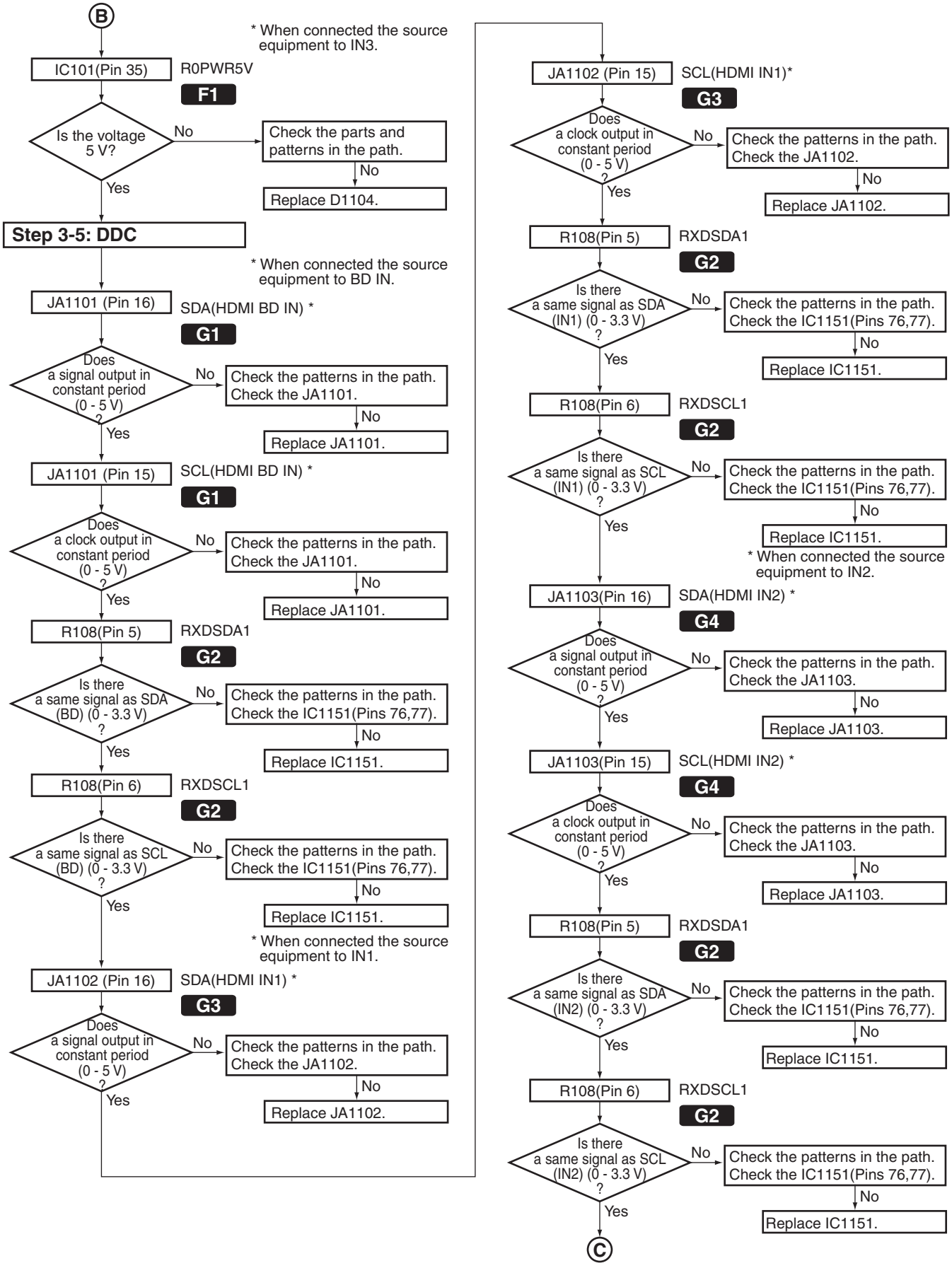
SC-LX81 only

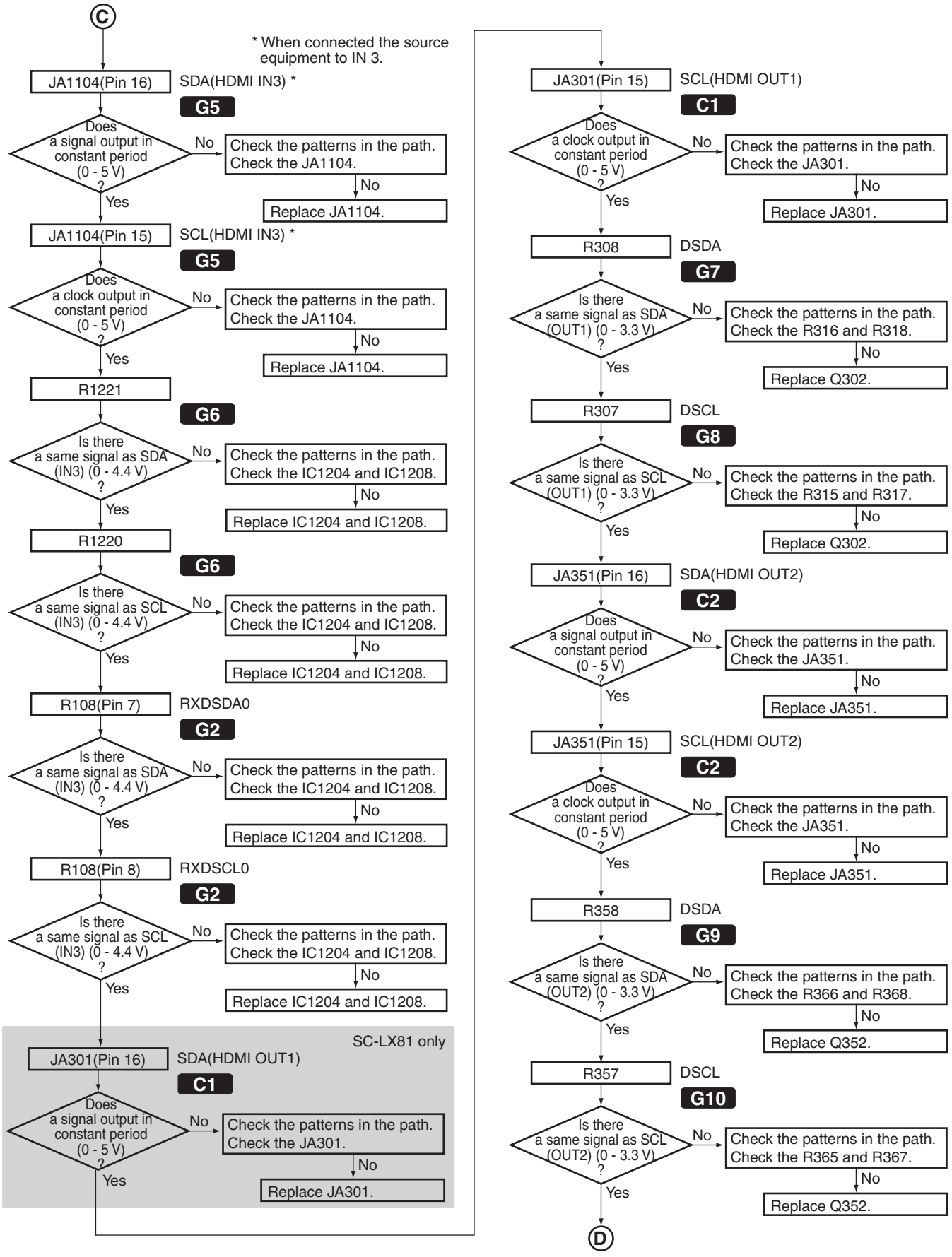
R304 — TX1RST — **D5**

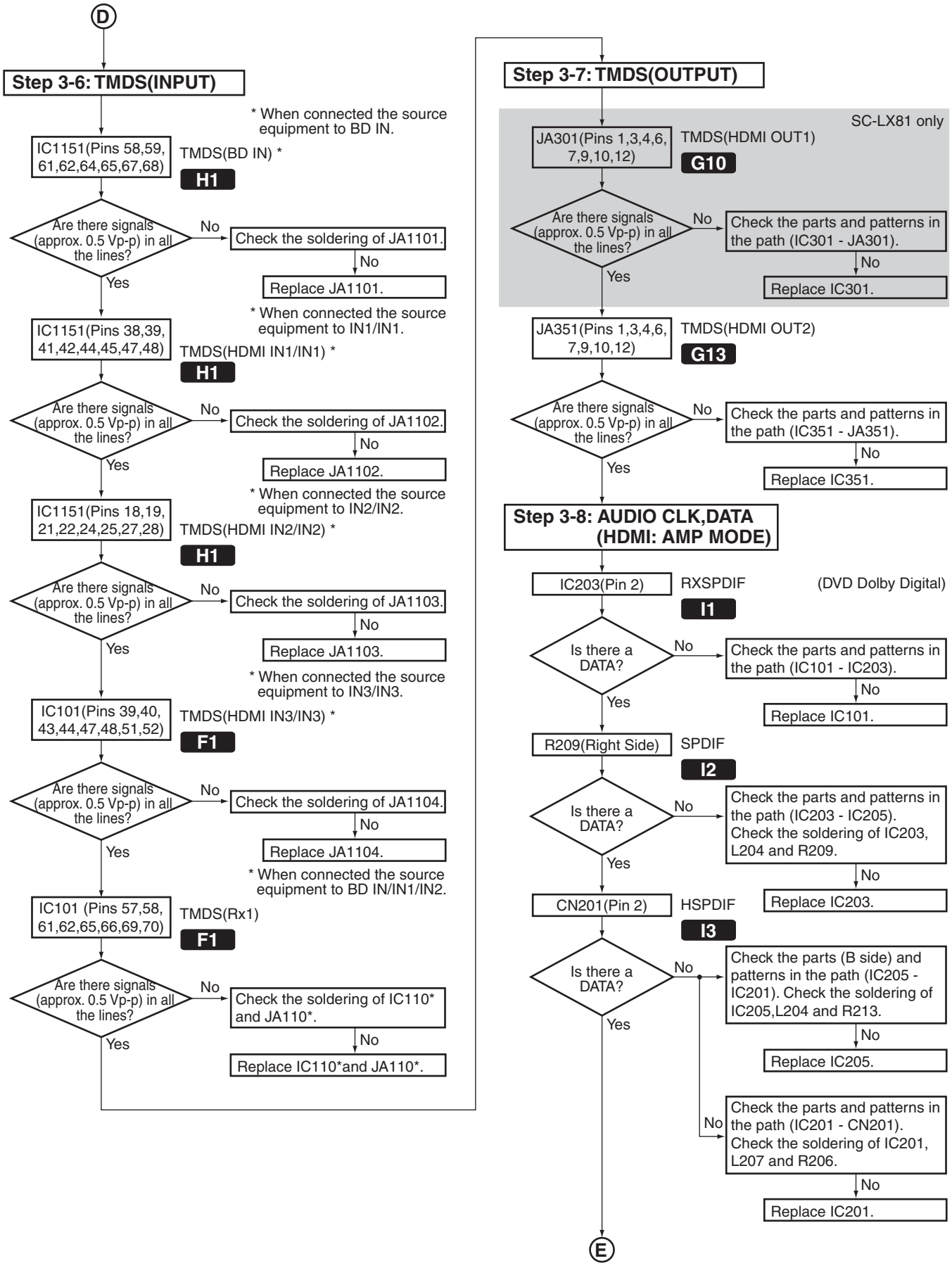
Is the voltage "H" (3.3 V)?
- No → Check the parts and patterns in the path. → No → Replace IC501 or IC502.
- Yes

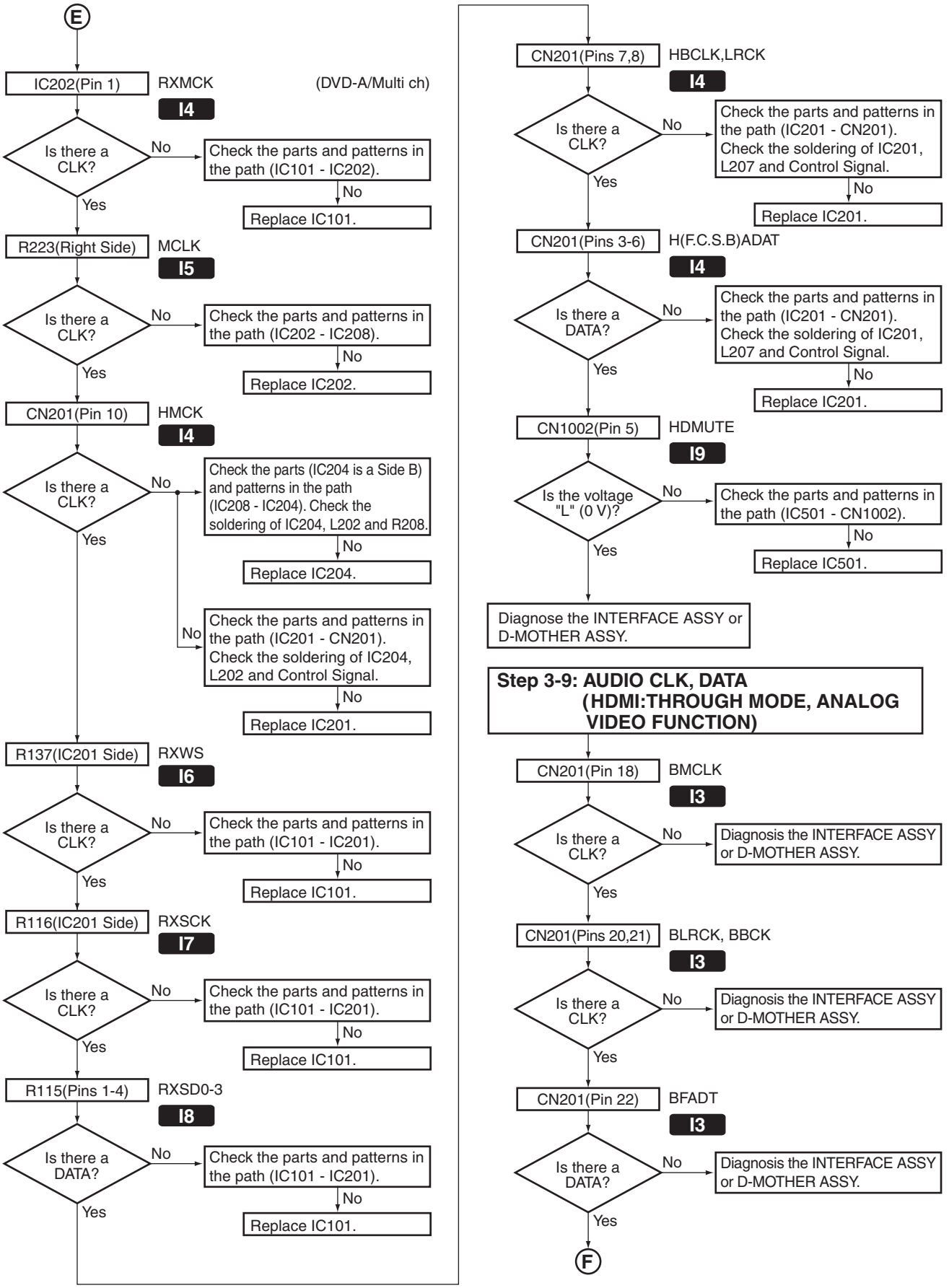
Ⓐ

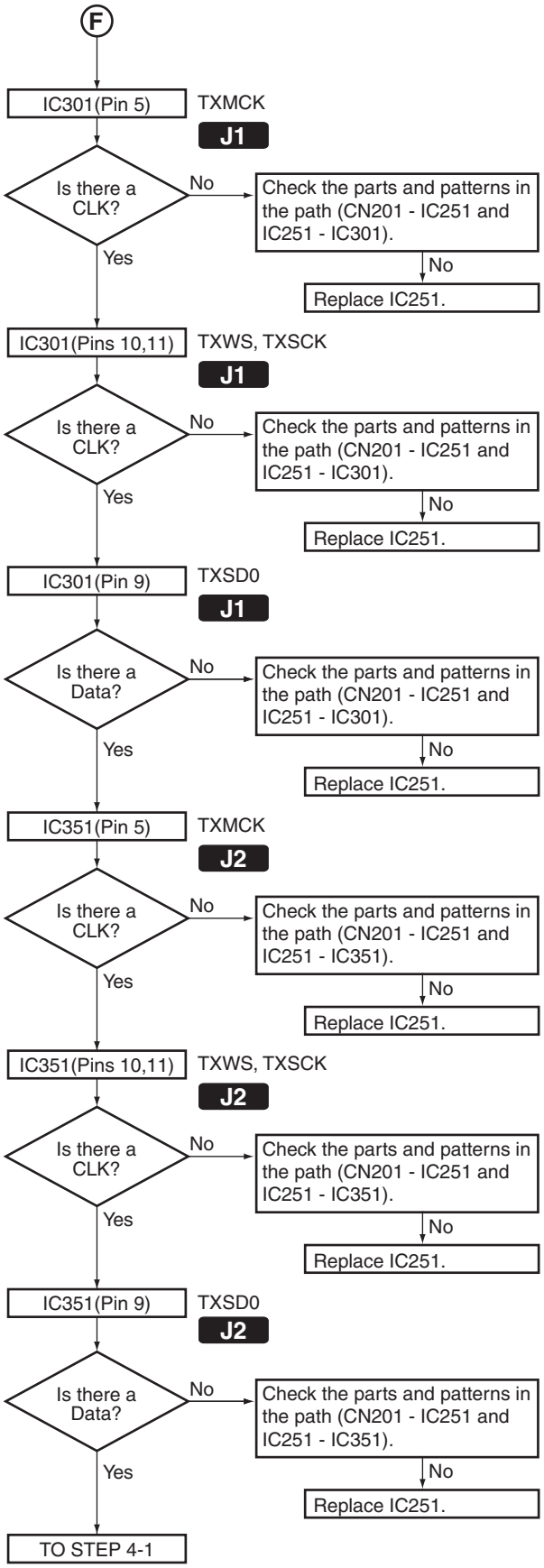

A
R354
TX2RST
D6
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Replace IC501 or IC502.
Yes
Step 3-3: Hot Plug Detect
* When connected the source equipment to BD IN.
R1101
HPDET1(BD IN) *
E1
Is the voltage 5 V?
No
Check the patterns in the path. Check the R1113 and R1169.
No
Replace R1113 or R1169.
Yes
* When connected the source equipment to IN1.
R1104
HPDET2(HDMI IN1) *
E2
Is the voltage 5 V?
No
Check the patterns in the path. Check the R1114 and R1151.
No
Replace R1114 or R1151.
Yes
* When connected the source equipment to IN2.
R1107
HPDET3(HDMI IN2) *
E3
Is the voltage 5 V?
No
Check the patterns in the path. Check the R1115 and R1154.
No
Replace R1115 or R1154.
Yes
* When connected the source equipment to IN3.
Q1104 (B)
HPDET4(HDMI IN3) *
E4
Is the voltage 0 V?
No
Check the patterns in the path.
No
Replace IC501.
Yes
R1110
HPD(HDMI IN3) *
E5
Is the voltage 5 V?
No
Check the patterns in the path. Check the Q1104 and R1110.
No
Replace Q1104 or R1110.
Yes
SC-LX81 only
R1057
HPD(HDMI OUT1)
V+6HD
Is the voltage "H" (6 V)?
No
Check the patterns in the path. Check the JA301.
No
Replace JA301.
Yes
R313
HPD(HDMI TX1)
E7
Is the voltage "H" (5 V)?
No
Check the patterns in the path. Check the D301 and R313.
No
Replace D301 or R313.
Yes
R1057
HPD(HDMI OUT2/1)
V+6HD
Is the voltage "H" (6 V)?
No
Check the patterns in the path. Check the JA351.
No
Replace JA351.
Yes
R363
HPD(HDMI Tx2/1)
E9
Is the voltage "H" (5 V)?
No
Check the patterns in the path. Check the D351 and R363.
No
Replace D351 or R363.
Yes
Step 3-4: Source 5V
* When connected the source equipment to BD IN/IN1/IN2.
V+5R(BD IN/HDMI IN1/IN2) *
E1 or E2 or E3
Is the voltage 5 V?
No
Check the JA110*.
No
Replace JA110*and D110*.
Yes
* When connected the source equipment to IN3.
V+5R4(HDMI IN3) *
E5
Is the voltage 5 V?
No
Check the parts and patterns in the path.
No
Replace JA1104 and D1104.
Yes
* When connected the source equipment to BD IN/IN1/IN2.
IC101(Pin 30)
R1PWR5V
F1
Is the voltage 5 V?
No
Check the IC1151.
No
Replace IC1151.
Yes
B


B
IC101(Pin 35)
R0PWR5V
F1
Is the voltage 5 V?
No
Check the parts and patterns in the path.
No
Replace D1104.
Yes
Step 3-5: DDC
* When connected the source equipment to BD IN.
JA1101 (Pin 16)
SDA(HDMI BD IN) *
G1
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1101.
No
Replace JA1101.
Yes
JA1101 (Pin 15)
SCL(HDMI BD IN) *
G1
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1101.
No
Replace JA1101.
Yes
R108(Pin 5)
RXDSDA1
G2
Is there a same signal as SDA (BD) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the IC1151(Pins 76,77).
No
Replace IC1151.
Yes
R108(Pin 6)
RXDSCL1
G2
Is there a same signal as SCL (BD) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the IC1151(Pins 76,77).
No
Replace IC1151.
Yes
* When connected the source equipment to IN1.
JA1102 (Pin 16)
SDA(HDMI IN1) *
G3
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1102.
No
Replace JA1102.
Yes
JA1102 (Pin 15)
SCL(HDMI IN1)*
G3
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1102.
No
Replace JA1102.
Yes
R108(Pin 5)
RXDSDA1
G2
Is there a same signal as SDA (IN1) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the IC1151(Pins 76,77).
No
Replace IC1151.
Yes
R108(Pin 6)
RXDSCL1
G2
Is there a same signal as SCL (IN1) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the IC1151(Pins 76,77).
No
Replace IC1151.
Yes
* When connected the source equipment to IN2.
JA1103(Pin 16)
SDA(HDMI IN2) *
G4
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1103.
No
Replace JA1103.
Yes
JA1103(Pin 15)
SCL(HDMI IN2) *
G4
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1103.
No
Replace JA1103.
Yes
R108(Pin 5)
RXDSDA1
G2
Is there a same signal as SDA (IN2) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the IC1151(Pins 76,77).
No
Replace IC1151.
Yes
R108(Pin 6)
RXDSCL1
G2
Is there a same signal as SCL (IN2) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the IC1151(Pins 76,77).
No
Replace IC1151.
Yes
C

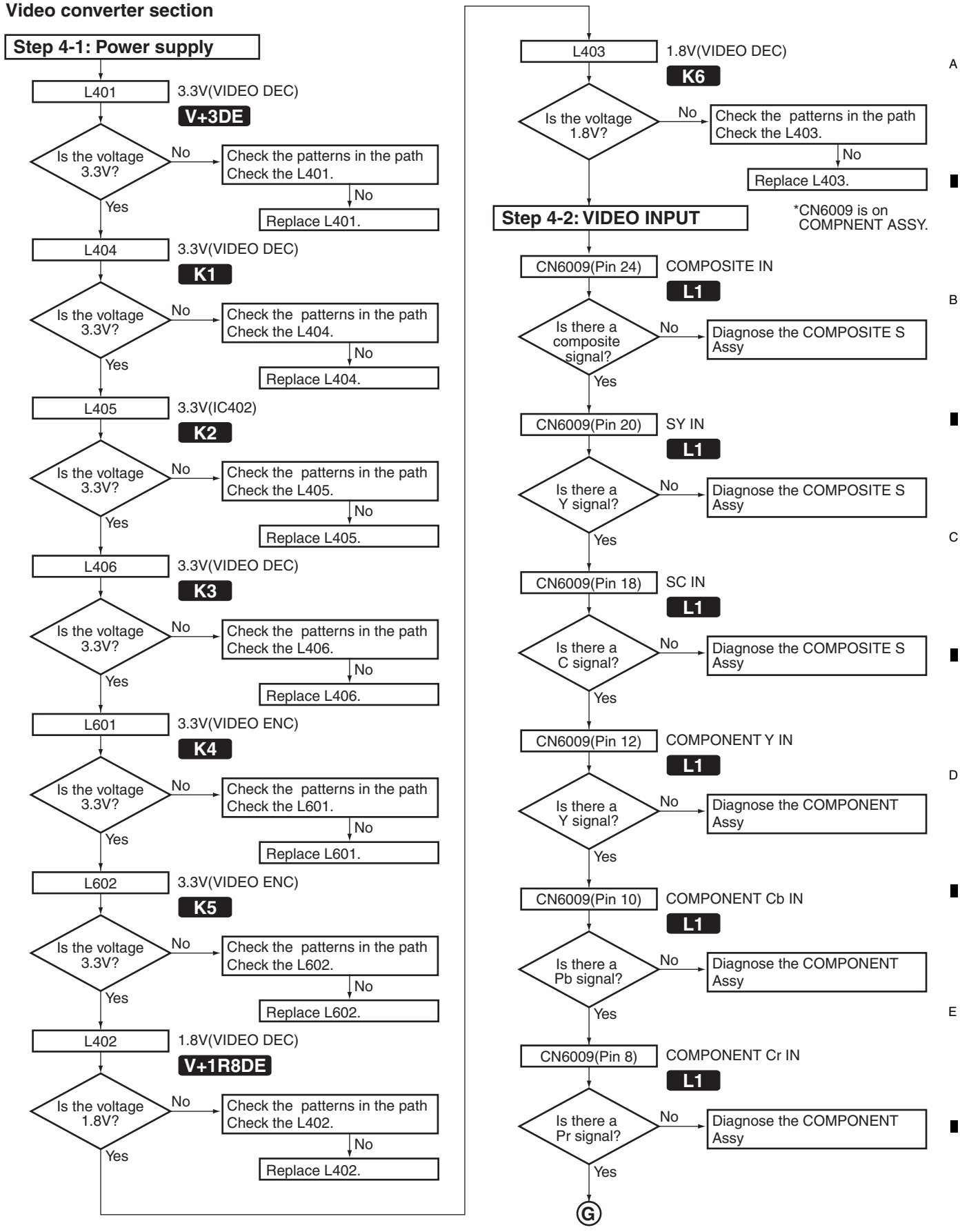

C
* When connected the source equipment to IN 3.
JA1104(Pin 16)
SDA(HDMI IN3) *
G5
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1104.
No
Replace JA1104.
Yes
JA1104(Pin 15)
SCL(HDMI IN3) *
G5
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA1104.
No
Replace JA1104.
Yes
R1221
G6
Is there a same signal as SDA (IN3) (0 - 4.4 V) ?
No
Check the patterns in the path. Check the IC1204 and IC1208.
No
Replace IC1204 and IC1208.
Yes
R1220
G6
Is there a same signal as SCL (IN3) (0 - 4.4 V) ?
No
Check the patterns in the path. Check the IC1204 and IC1208.
No
Replace IC1204 and IC1208.
Yes
R108(Pin 7)
RXDSDA0
G2
Is there a same signal as SDA (IN3) (0 - 4.4 V) ?
No
Check the patterns in the path. Check the IC1204 and IC1208.
No
Replace IC1204 and IC1208.
Yes
R108(Pin 8)
RXDSCL0
G2
Is there a same signal as SCL (IN3) (0 - 4.4 V) ?
No
Check the patterns in the path. Check the IC1204 and IC1208.
No
Replace IC1204 and IC1208.
Yes
SC-LX81 only
JA301(Pin 16)
SDA(HDMI OUT1)
C1
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA301.
No
Replace JA301.
Yes
JA301(Pin 15)
SCL(HDMI OUT1)
C1
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA301.
No
Replace JA301.
Yes
R308
DSDA
G7
Is there a same signal as SDA (OUT1) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the R316 and R318.
No
Replace Q302.
Yes
R307
DSCL
G8
Is there a same signal as SCL (OUT1) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the R315 and R317.
No
Replace Q302.
Yes
JA351(Pin 16)
SDA(HDMI OUT2)
C2
Does a signal output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA351.
No
Replace JA351.
Yes
JA351(Pin 15)
SCL(HDMI OUT2)
C2
Does a clock output in constant period (0 - 5 V) ?
No
Check the patterns in the path. Check the JA351.
No
Replace JA351.
Yes
R358
DSDA
G9
Is there a same signal as SDA (OUT2) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the R366 and R368.
No
Replace Q352.
Yes
R357
DSCL
G10
Is there a same signal as SCL (OUT2) (0 - 3.3 V) ?
No
Check the patterns in the path. Check the R365 and R367.
No
Replace Q352.
Yes
D

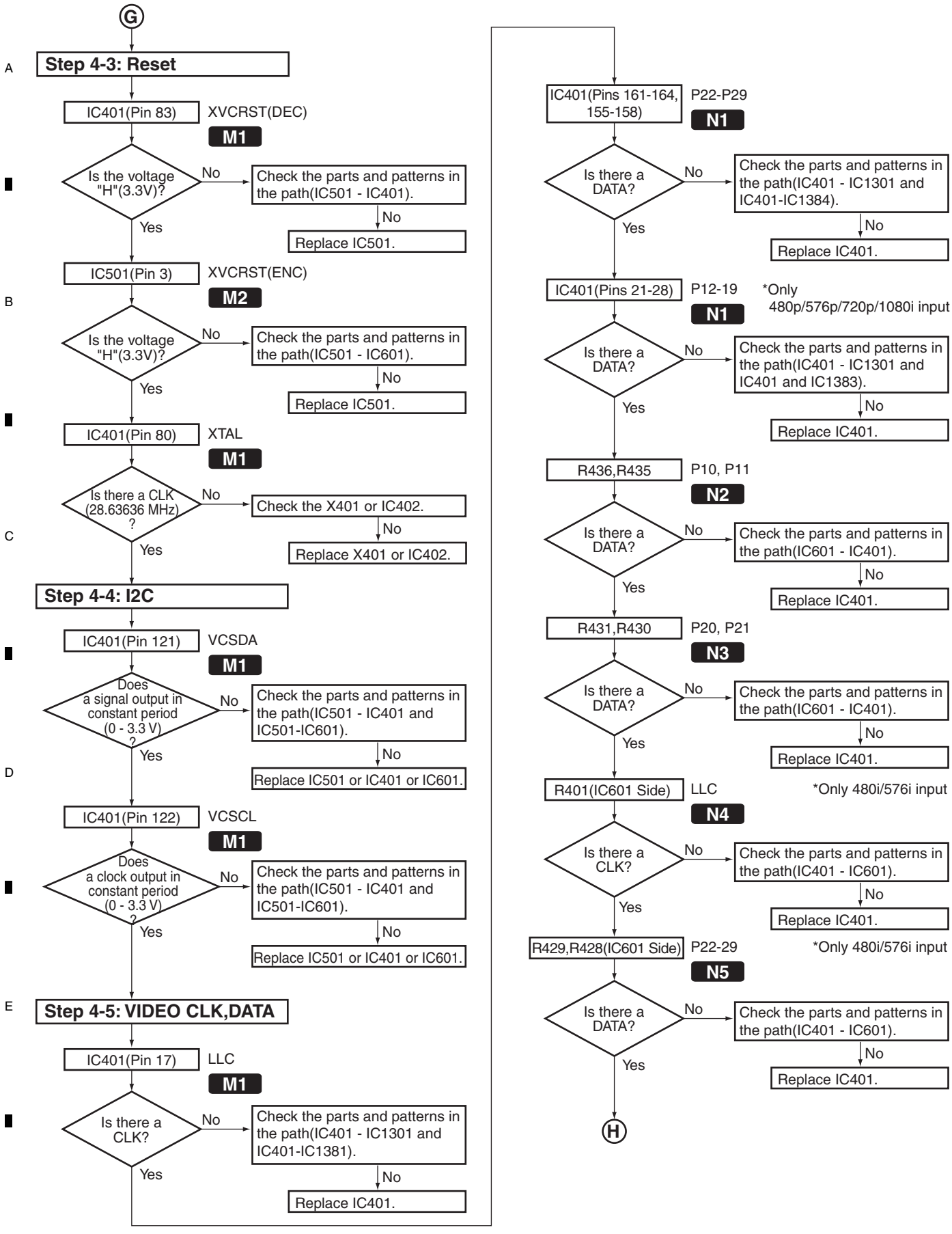

D
Step 3-6: TMDS(INPUT)
* When connected the source equipment to BD IN.
IC1151(Pins 58,59, 61,62,64,65,67,68)
TMDS(BD IN) *
H1
Are there signals (approx. 0.5 Vp-p) in all the lines?
No
Check the soldering of JA1101.
No
Replace JA1101.
Yes
* When connected the source equipment to IN1/IN1.
IC1151(Pins 38,39, 41,42,44,45,47,48)
TMDS(HDMI IN1/IN1) *
H1
Are there signals (approx. 0.5 Vp-p) in all the lines?
No
Check the soldering of JA1102.
No
Replace JA1102.
Yes
* When connected the source equipment to IN2/IN2.
IC1151(Pins 18,19, 21,22,24,25,27,28)
TMDS(HDMI IN2/IN2) *
H1
Are there signals (approx. 0.5 Vp-p) in all the lines?
No
Check the soldering of JA1103.
No
Replace JA1103.
Yes
* When connected the source equipment to IN3/IN3.
IC101(Pins 39,40, 43,44,47,48,51,52)
TMDS(HDMI IN3/IN3) *
F1
Are there signals (approx. 0.5 Vp-p) in all the lines?
No
Check the soldering of JA1104.
No
Replace JA1104.
Yes
* When connected the source equipment to BD IN/IN1/IN2.
IC101 (Pins 57,58, 61,62,65,66,69,70)
TMDS(Rx1)
F1
Are there signals (approx. 0.5 Vp-p) in all the lines?
No
Check the soldering of IC110* and JA110*.
No
Replace IC110*and JA110*.
Yes
Step 3-7: TMDS(OUTPUT)
SC-LX81 only
JA301(Pins 1,3,4,6, 7,9,10,12)
TMDS(HDMI OUT1)
G10
Are there signals (approx. 0.5 Vp-p) in all the lines?
No
Check the parts and patterns in the path (IC301 - JA301).
No
Replace IC301.
Yes
JA351(Pins 1,3,4,6, 7,9,10,12)
TMDS(HDMI OUT2)
G13
Are there signals (approx. 0.5 Vp-p) in all the lines?
No
Check the parts and patterns in the path (IC351 - JA351).
No
Replace IC351.
Yes
Step 3-8: AUDIO CLK,DATA (HDMI: AMP MODE)
IC203(Pin 2)
RXSPDIF
(DVD Dolby Digital)
I1
Is there a DATA?
No
Check the parts and patterns in the path (IC101 - IC203).
No
Replace IC101.
Yes
R209(Right Side)
SPDIF
I2
Is there a DATA?
No
Check the parts and patterns in the path (IC203 - IC205). Check the soldering of IC203, L204 and R209.
No
Replace IC203.
Yes
CN201(Pin 2)
HSPDIF
I3
Is there a DATA?
No
Check the parts (B side) and patterns in the path (IC205 - IC201). Check the soldering of IC205,L204 and R213.
No
Replace IC205.
Yes
No
Check the parts and patterns in the path (IC201 - CN201). Check the soldering of IC201, L207 and R206.
No
Replace IC201.
E

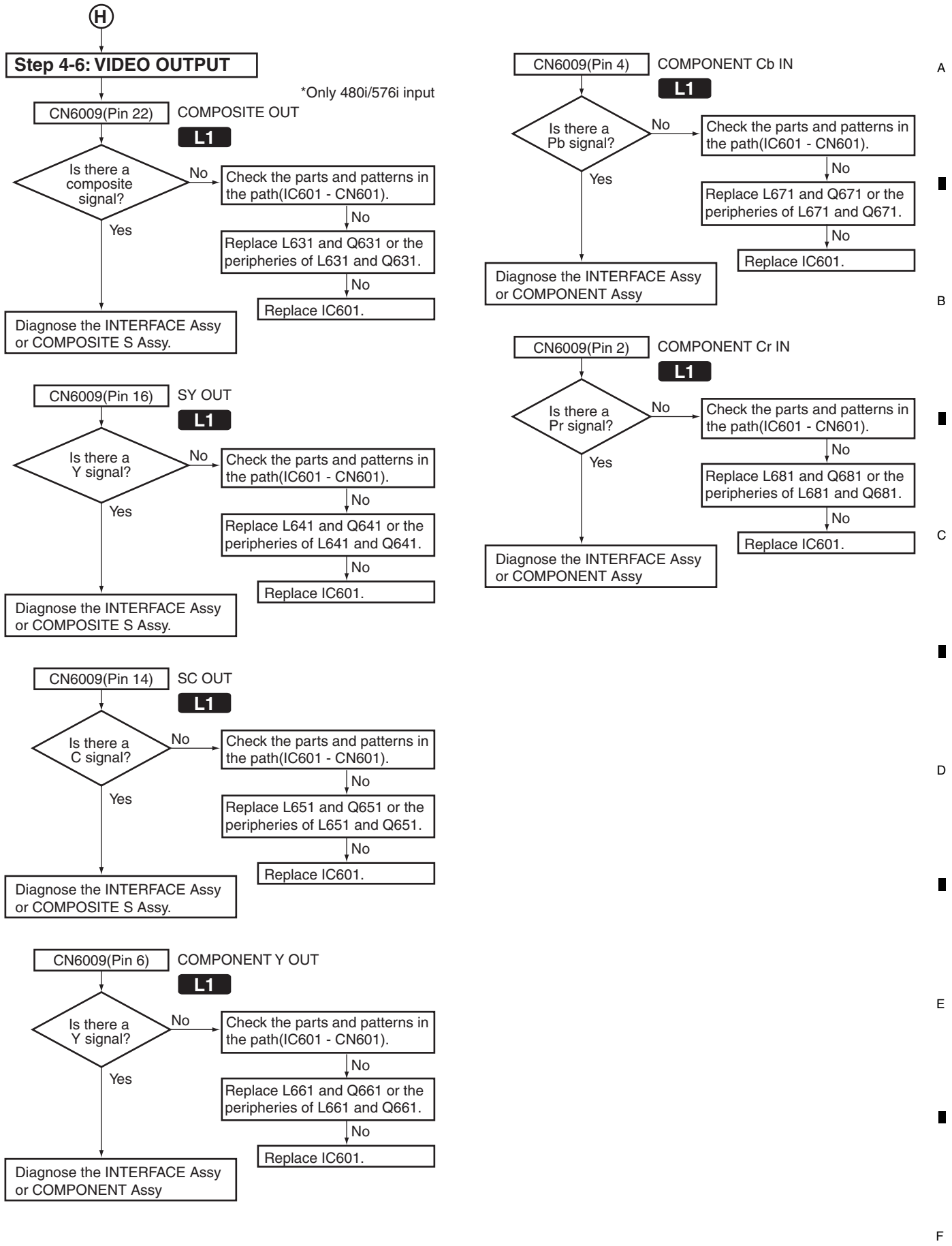

E
IC202(Pin 1)
RXMCK
(DVD-A/Multi ch)
I4
Is there a CLK?
No
Check the parts and patterns in the path (IC101 - IC202).
No
Replace IC101.
Yes
R223(Right Side)
MCLK
I5
Is there a CLK?
No
Check the parts and patterns in the path (IC202 - IC208).
No
Replace IC202.
Yes
CN201(Pin 10)
HMCK
I4
Is there a CLK?
No
Check the parts (IC204 is a Side B) and patterns in the path (IC208 - IC204). Check the soldering of IC204, L202 and R208.
No
Replace IC204.
Yes
No
Check the parts and patterns in the path (IC201 - CN201). Check the soldering of IC204, L202 and Control Signal.
No
Replace IC201.
R137(IC201 Side)
RXWS
I6
Is there a CLK?
No
Check the parts and patterns in the path (IC101 - IC201).
No
Replace IC101.
Yes
R116(IC201 Side)
RXSCK
I7
Is there a CLK?
No
Check the parts and patterns in the path (IC101 - IC201).
No
Replace IC101.
Yes
R115(Pins 1-4)
RXSD0-3
I8
Is there a DATA?
No
Check the parts and patterns in the path (IC101 - IC201).
No
Replace IC101.
Yes
CN201(Pins 7,8)
HBCLK,LRCK
I4
Is there a CLK?
No
Check the parts and patterns in the path (IC201 - CN201). Check the soldering of IC201, L207 and Control Signal.
No
Replace IC201.
Yes
CN201(Pins 3-6)
H(F.C.S.B)ADAT
I4
Is there a DATA?
No
Check the parts and patterns in the path (IC201 - CN201). Check the soldering of IC201, L207 and Control Signal.
No
Replace IC201.
Yes
CN1002(Pin 5)
HDMUTE
I9
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 - CN1002).
No
Replace IC501.
Yes
Diagnose the INTERFACE ASSY or D-MOTHER ASSY.
Step 3-9: AUDIO CLK, DATA (HDMI:THROUGH MODE, ANALOG VIDEO FUNCTION)
CN201(Pin 18)
BMCLK
I3
Is there a CLK?
No
Diagnosis the INTERFACE ASSY or D-MOTHER ASSY.
Yes
CN201(Pins 20,21)
BLRCK, BBCK
I3
Is there a CLK?
No
Diagnosis the INTERFACE ASSY or D-MOTHER ASSY.
Yes
CN201(Pin 22)
BFADT
I3
Is there a DATA?
No
Diagnosis the INTERFACE ASSY or D-MOTHER ASSY.
Yes
F


F
IC301(Pin 5)
TXMCK
J1
Is there a CLK?
No
Check the parts and patterns in the path (CN201 - IC251 and IC251 - IC301).
No
Replace IC251.
Yes
IC301(Pins 10,11)
TXWS, TXSCK
J1
Is there a CLK?
No
Check the parts and patterns in the path (CN201 - IC251 and IC251 - IC301).
No
Replace IC251.
Yes
IC301(Pin 9)
TXSD0
J1
Is there a Data?
No
Check the parts and patterns in the path (CN201 - IC251 and IC251 - IC301).
No
Replace IC251.
Yes
IC351(Pin 5)
TXMCK
J2
Is there a CLK?
No
Check the parts and patterns in the path (CN201 - IC251 and IC251 - IC351).
No
Replace IC251.
Yes
IC351(Pins 10,11)
TXWS, TXSCK
J2
Is there a CLK?
No
Check the parts and patterns in the path (CN201 - IC251 and IC251 - IC351).
No
Replace IC251.
Yes
IC351(Pin 9)
TXSD0
J2
Is there a Data?
No
Check the parts and patterns in the path (CN201 - IC251 and IC251 - IC351).
No
Replace IC251.
Yes
TO STEP 4-1

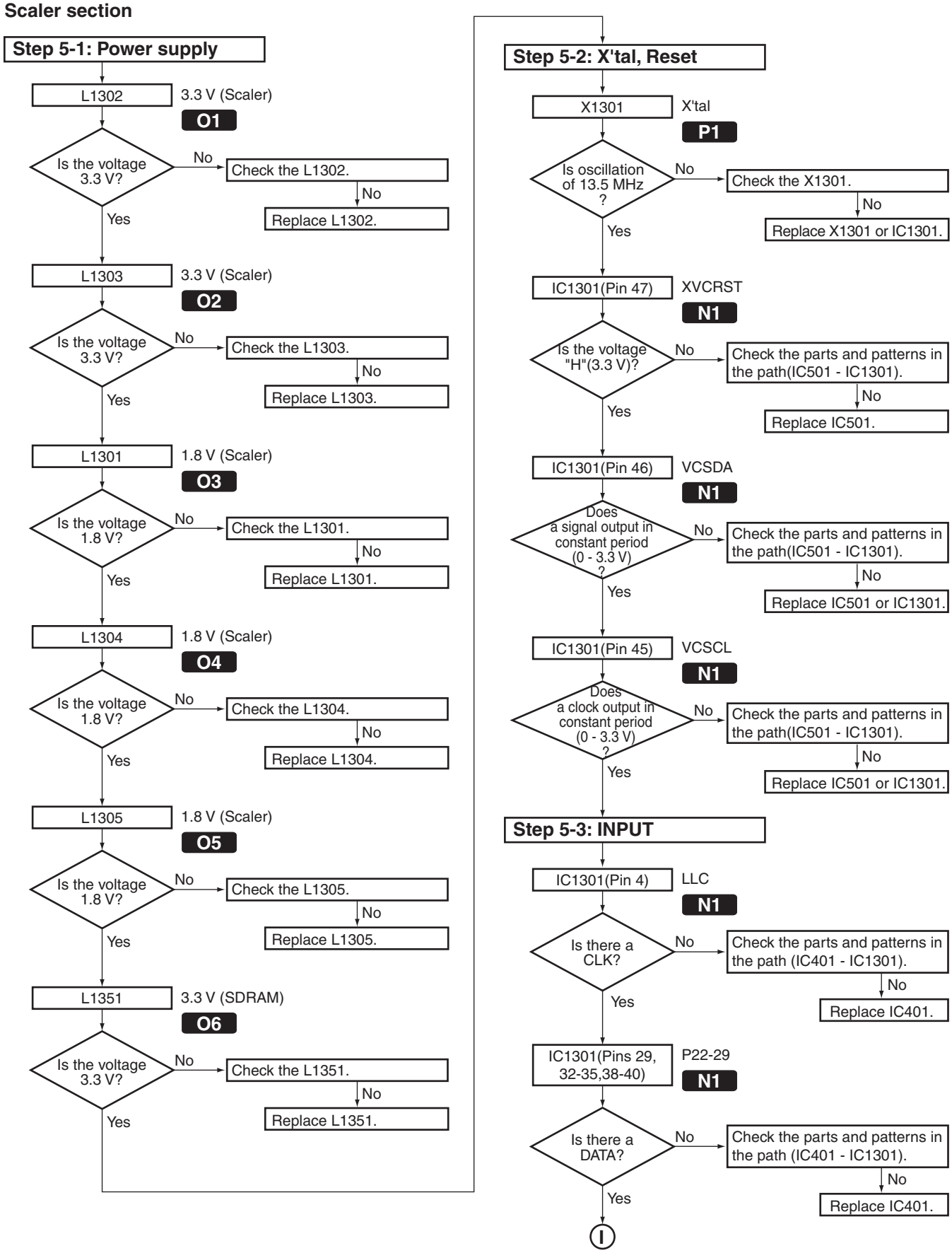
Video converter section

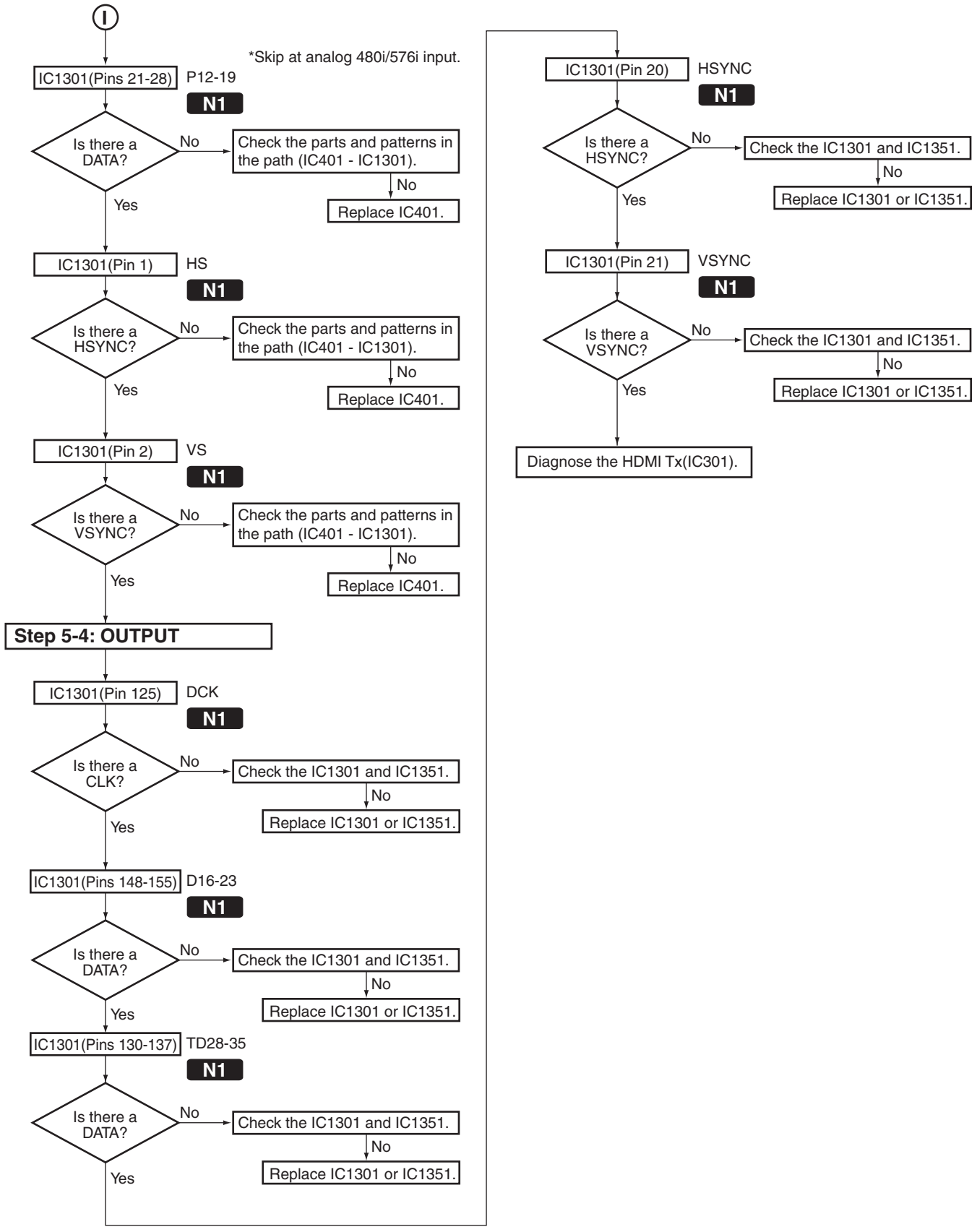



G
Step 4-3: Reset
IC401(Pin 83)
XVCRST(DEC)
M1
Is the voltage "H"(3.3V)?
No
Check the parts and patterns in the path(IC501 - IC401).
No
Replace IC501.
Yes
IC501(Pin 3)
XVCRST(ENC)
M2
Is the voltage "H"(3.3V)?
No
Check the parts and patterns in the path(IC501 - IC601).
No
Replace IC501.
Yes
IC401(Pin 80)
XTAL
M1
Is there a CLK (28.63636 MHz) ?
No
Check the X401 or IC402.
No
Replace X401 or IC402.
Yes
Step 4-4: I2C
IC401(Pin 121)
VCSDA
M1
Does a signal output in constant period (0 - 3.3 V) ?
No
Check the parts and patterns in the path(IC501 - IC401 and IC501-IC601).
No
Replace IC501 or IC401 or IC601.
Yes
IC401(Pin 122)
VCSCL
M1
Does a clock output in constant period (0 - 3.3 V) ?
No
Check the parts and patterns in the path(IC501 - IC401 and IC501-IC601).
No
Replace IC501 or IC401 or IC601.
Yes
Step 4-5: VIDEO CLK,DATA
IC401(Pin 17)
LLC
M1
Is there a CLK?
No
Check the parts and patterns in the path(IC401 - IC1301 and IC401-IC1381).
No
Replace IC401.
Yes
IC401(Pins 161-164, 155-158)
P22-P29
N1
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC1301 and IC401-IC1384).
No
Replace IC401.
Yes
IC401(Pins 21-28)
P12-19
*Only 480p/576p/720p/1080i input
N1
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC1301 and IC401 and IC1383).
No
Replace IC401.
Yes
R436,R435
P10, P11
N2
Is there a DATA?
No
Check the parts and patterns in the path(IC601 - IC401).
No
Replace IC401.
Yes
R431,R430
P20, P21
N3
Is there a DATA?
No
Check the parts and patterns in the path(IC601 - IC401).
No
Replace IC401.
Yes
R401(IC601 Side)
LLC
*Only 480i/576i input
N4
Is there a CLK?
No
Check the parts and patterns in the path(IC401 - IC601).
No
Replace IC401.
Yes
R429,R428(IC601 Side)
P22-29
*Only 480i/576i input
N5
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC601).
No
Replace IC401.
Yes
H

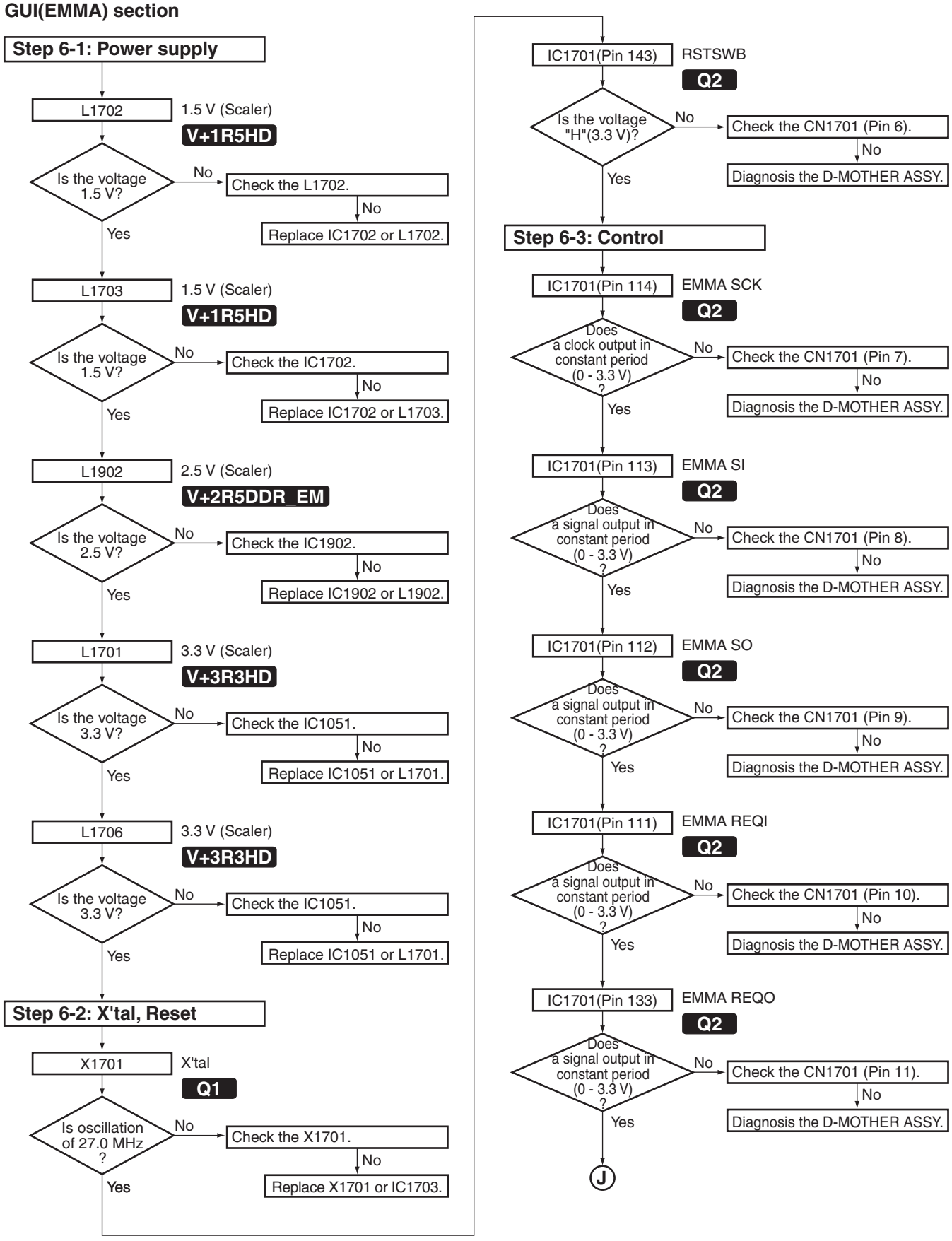

H
Step 4-6: VIDEO OUTPUT
*Only 480i/576i input
CN6009(Pin 22)
COMPOSITE OUT
L1
Is there a composite signal?
No
Check the parts and patterns in the path(IC601 - CN601).
No
Replace L631 and Q631 or the peripheries of L631 and Q631.
No
Replace IC601.
Yes
Diagnose the INTERFACE Assy or COMPOSITE S Assy.
CN6009(Pin 16)
SY OUT
L1
Is there a Y signal?
No
Check the parts and patterns in the path(IC601 - CN601).
No
Replace L641 and Q641 or the peripheries of L641 and Q641.
No
Replace IC601.
Yes
Diagnose the INTERFACE Assy or COMPOSITE S Assy.
CN6009(Pin 14)
SC OUT
L1
Is there a C signal?
No
Check the parts and patterns in the path(IC601 - CN601).
No
Replace L651 and Q651 or the peripheries of L651 and Q651.
No
Replace IC601.
Yes
Diagnose the INTERFACE Assy or COMPOSITE S Assy.
CN6009(Pin 6)
COMPONENT Y OUT
L1
Is there a Y signal?
No
Check the parts and patterns in the path(IC601 - CN601).
No
Replace L661 and Q661 or the peripheries of L661 and Q661.
No
Replace IC601.
Yes
Diagnose the INTERFACE Assy or COMPONENT Assy
CN6009(Pin 4)
COMPONENT Cb IN
L1
Is there a Pb signal?
No
Check the parts and patterns in the path(IC601 - CN601).
No
Replace L671 and Q671 or the peripheries of L671 and Q671.
No
Replace IC601.
Yes
Diagnose the INTERFACE Assy or COMPONENT Assy
CN6009(Pin 2)
COMPONENT Cr IN
L1
Is there a Pr signal?
No
Check the parts and patterns in the path(IC601 - CN601).
No
Replace L681 and Q681 or the peripheries of L681 and Q681.
No
Replace IC601.
Yes
Diagnose the INTERFACE Assy or COMPONENT Assy

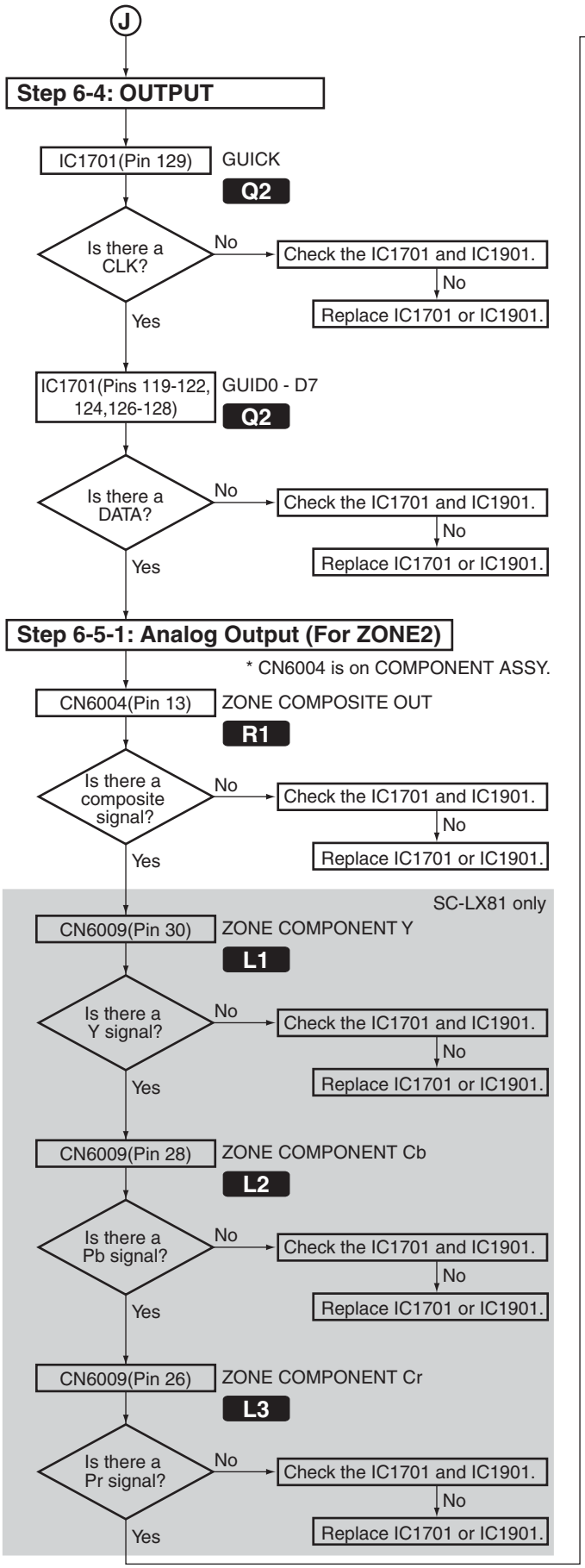
Scaler section




I
*Skip at analog 480i/576i input.
IC1301(Pins 21-28) P12-19
N1
Is there a DATA?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
IC1301(Pin 1) HS
N1
Is there a HSYNC?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
IC1301(Pin 2) VS
N1
Is there a VSYNC?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
Step 5-4: OUTPUT
IC1301(Pin 125) DCK
N1
Is there a CLK?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pins 148-155) D16-23
N1
Is there a DATA?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pins 130-137) TD28-35
N1
Is there a DATA?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pin 20) HSYNC
N1
Is there a HSYNC?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pin 21) VSYNC
N1
Is there a VSYNC?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
Diagnose the HDMI Tx(IC301).

GUI(EMMA) section

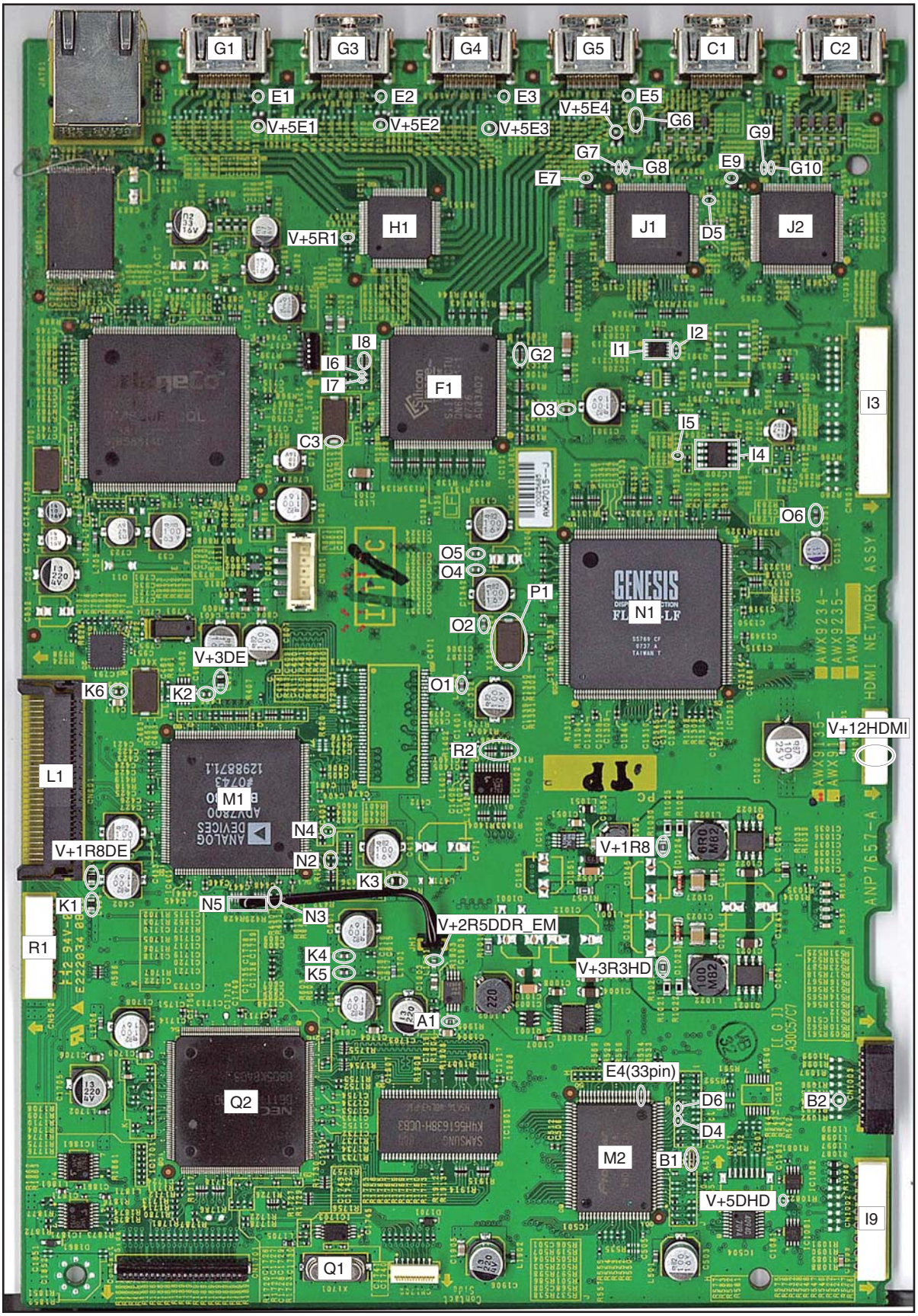



J
Step 6-4: OUTPUT
IC1701(Pin 129)
GUICK
Q2
Is there a CLK?
No
Check the IC1701 and IC1901.
No
Replace IC1701 or IC1901.
Yes
IC1701(Pins 119-122, 124,126-128)
GUID0 - D7
Q2
Is there a DATA?
No
Check the IC1701 and IC1901.
No
Replace IC1701 or IC1901.
Yes
Step 6-5-1: Analog Output (For ZONE2)
* CN6004 is on COMPONENT ASSY.
CN6004(Pin 13)
ZONE COMPOSITE OUT
R1
Is there a composite signal?
No
Check the IC1701 and IC1901.
No
Replace IC1701 or IC1901.
Yes
SC-LX81 only
CN6009(Pin 30)
ZONE COMPONENT Y
L1
Is there a Y signal?
No
Check the IC1701 and IC1901.
No
Replace IC1701 or IC1901.
Yes
CN6009(Pin 28)
ZONE COMPONENT Cb
L2
Is there a Pb signal?
No
Check the IC1701 and IC1901.
No
Replace IC1701 or IC1901.
Yes
CN6009(Pin 26)
ZONE COMPONENT Cr
L3
Is there a Pr signal?
No
Check the IC1701 and IC1901.
No
Replace IC1701 or IC1901.
Yes
Diagnose the COMPONENT ASSY.
Step 6-5-2: Digital Output (MAIN) [No Scaler]
R1402
LLC
M2
Does a clock output in constant period (0 - 3.3 V) ?
No
Check the IC1401.
No
Replace IC1401.
Yes
R1405,R1406(Pins 5-8)
P22-P29
R2
Is there a DATA?
No
Replace IC1402.
Yes
End

1) HDMI NETWORK Assy check points

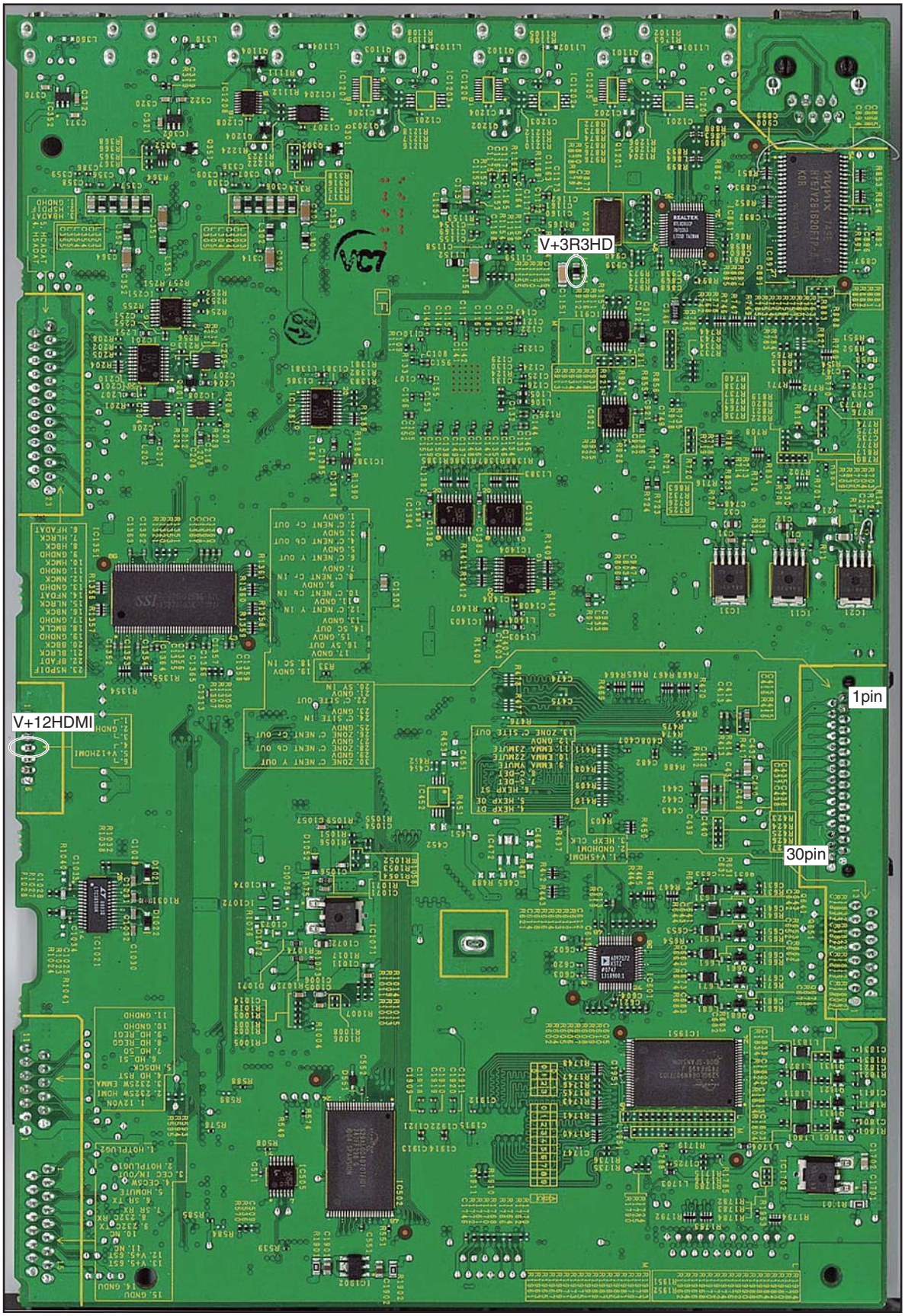
E HDMI NETWORK ASSY

SIDE A



E HDMI NETWORK ASSY

SIDE B



[4] Diagnosis of The Network Block

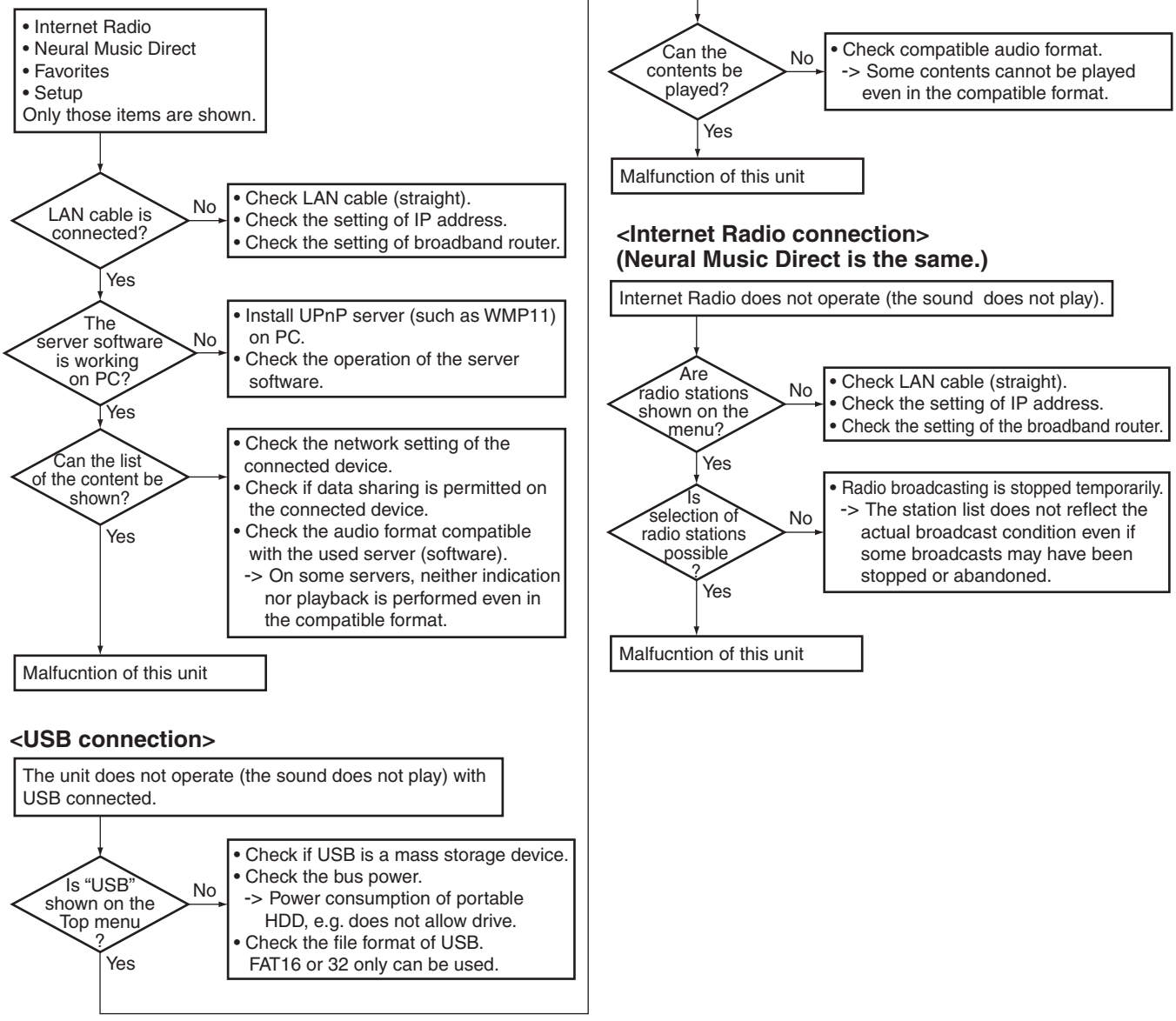
1) Constitution of network function

CD --- ..... -- HDMI4 ---- HOME MEDIA GALLERY --

- USB
- Internet Radio
- Neural Music Direct -> Internet radio run by Neural
- Server1
- Server2
- Server3
- Favorites
- Setup
  - Information
    - Firmware Version -> Indicates the version of the firmware.
    - MAC Address -> Indicates MAC Address.
    - IP Address -> Indicates IP Address.
    - Gateway IP -> Indicates Gateway IP.
    - Proxy Server -> Indicates if Proxy Server is valid or invalid.
    - Subnet Mask -> Indicates Subnet Mask.
  - Network Setup

2) Flow chart for isolation of network malfunction

<Network connection>

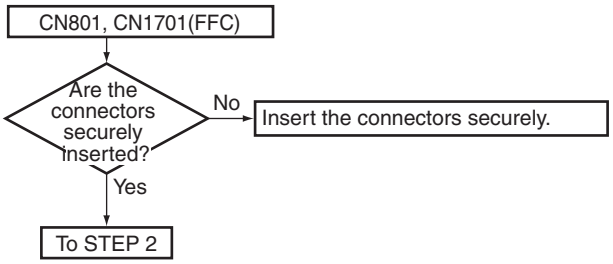


<USB connection>

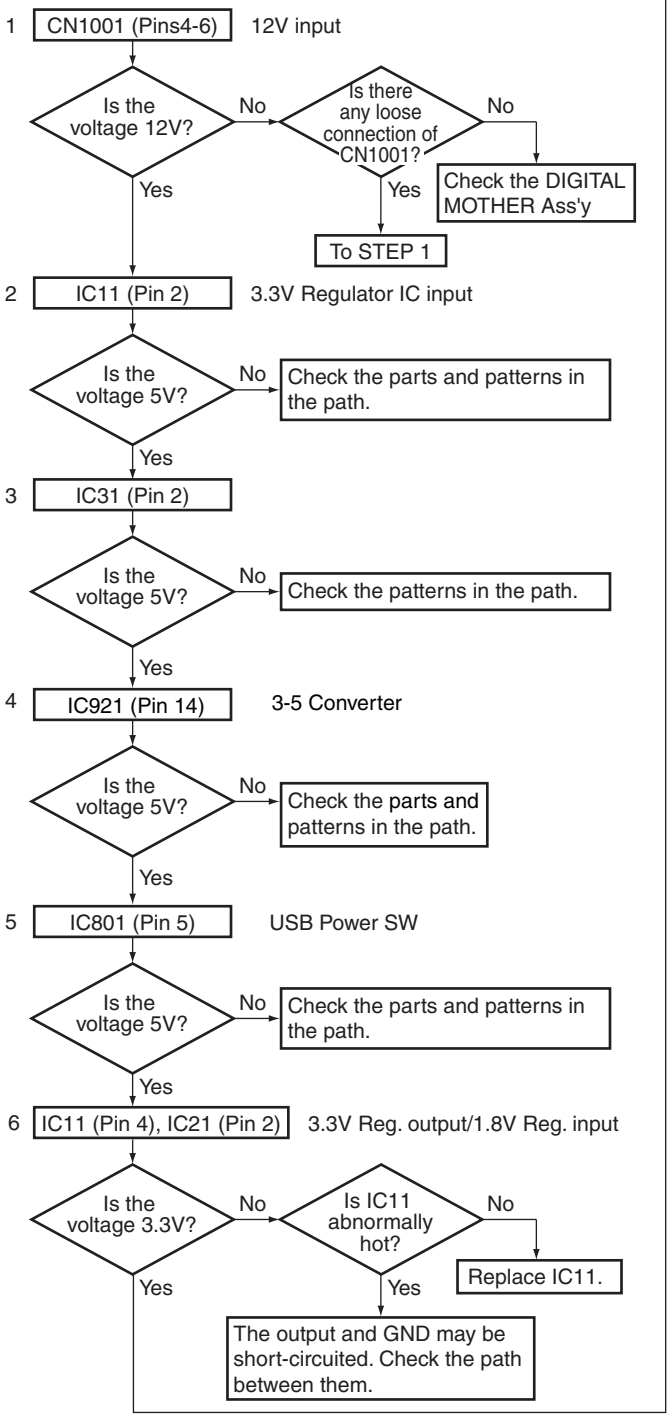
<Internet Radio connection>
(Neural Music Direct is the same.)

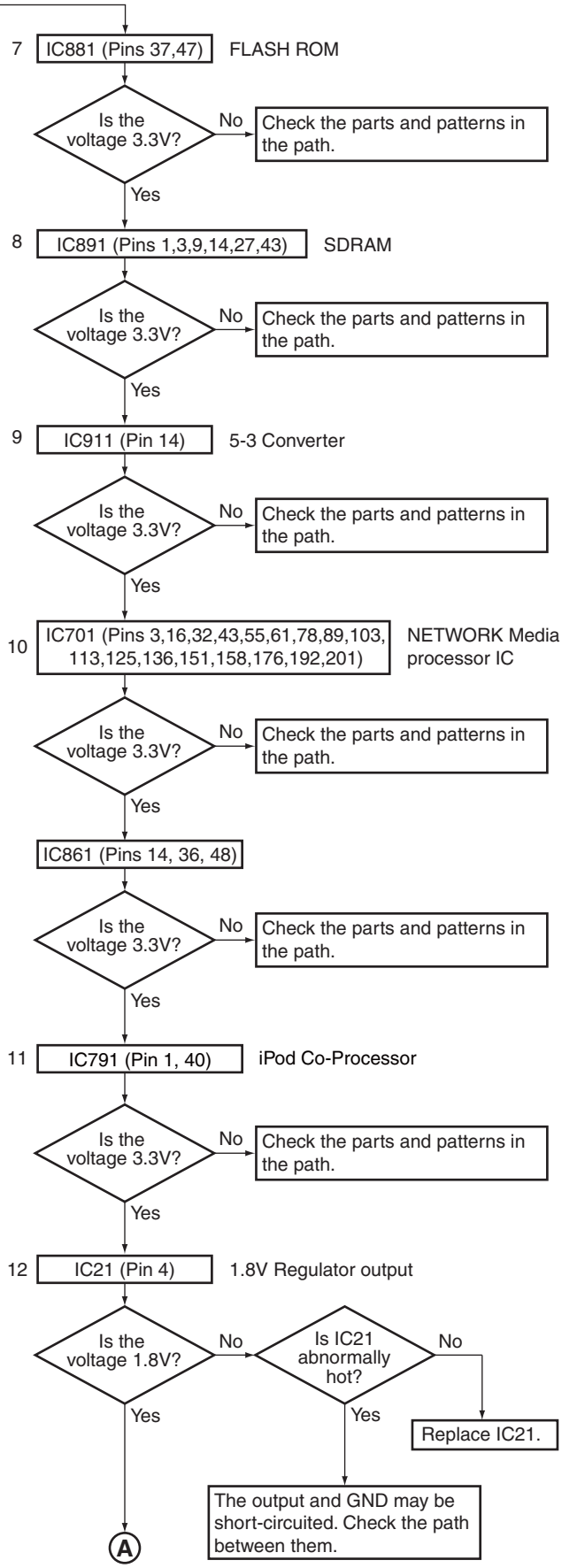
3) Network block troubleshooting

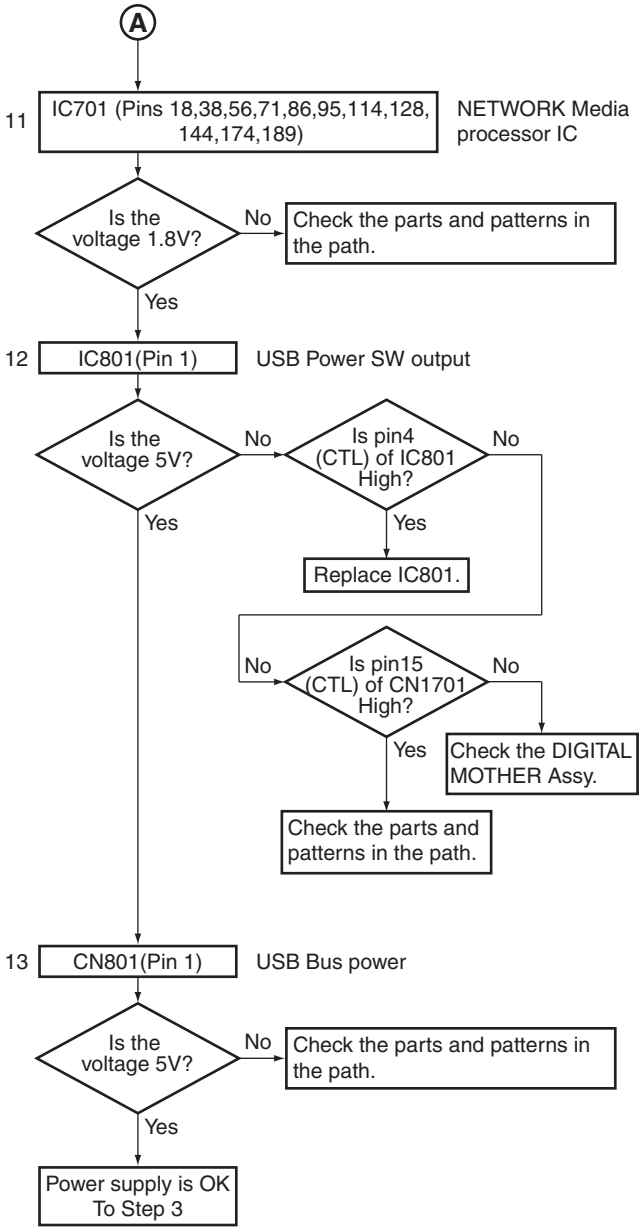
Step 1:Connectors



Step 2:Power supply

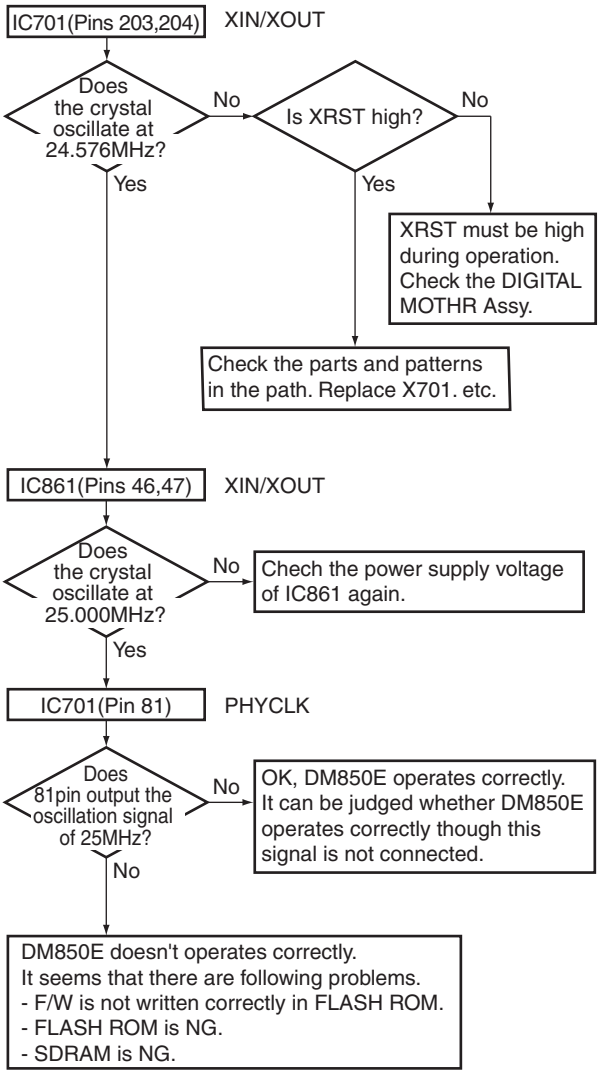






Step 3:Operation of Network Media processor IC

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



Step 4 : Communication between DM850E and System CPU

The signal shown by following fig are communication line of DM850E and main CPU(IC2001).
Confirm the connection of the signals along these routes.

fig. 1

	CN901	IC911 (5V -> 3V)		IC701
XRST	Pin 12	Pin 12	Pin 11	Pin 190
SPI CS	Pin 21	Pin 2	Pin 3	Pin 143
SPI CLK3	Pin 14	Pin 5	Pin 6	Pin 141
SPI MOSI	Pin 18	Pin 9	Pin 8	Pin 147

fig. 2

	IC701	IC921 (3V -> 5V)		CN901
SPI MISO	Pin 146	Pin 9	Pin 8	Pin 19
SPI REQ3	Pin 100	Pin 5	Pin 6	Pin 20

Step 5 :Communication between DM850E and System CPU

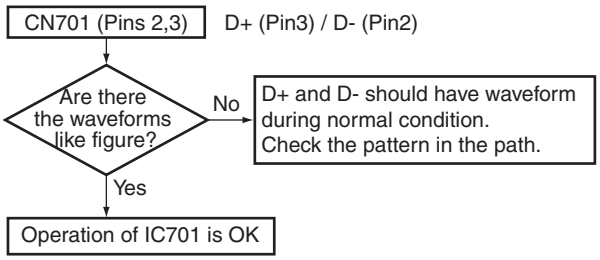
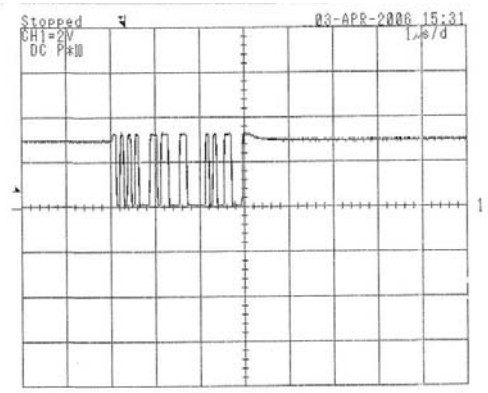
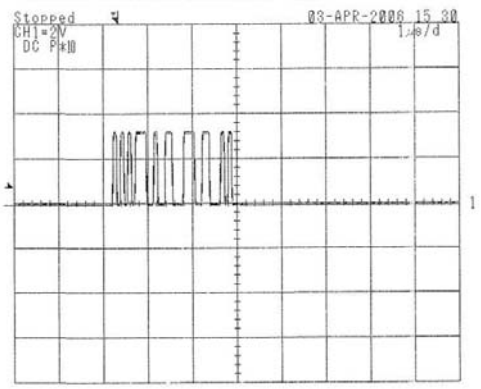


fig. : D+



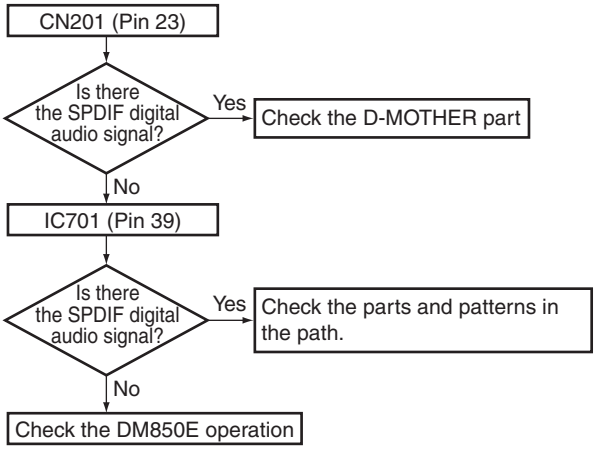
X : 1usec/div, Y : 2V/div

fig. : D-

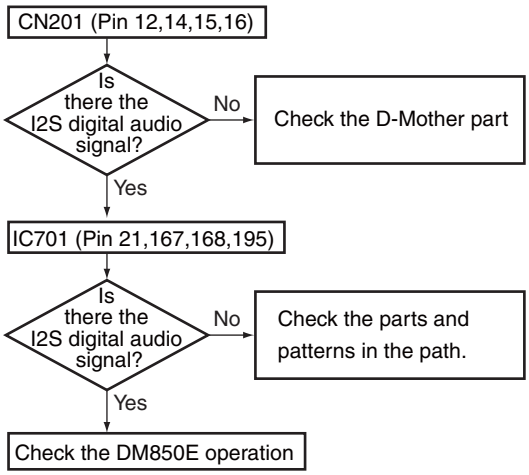


X : 1usec/div, Y : 2V/div

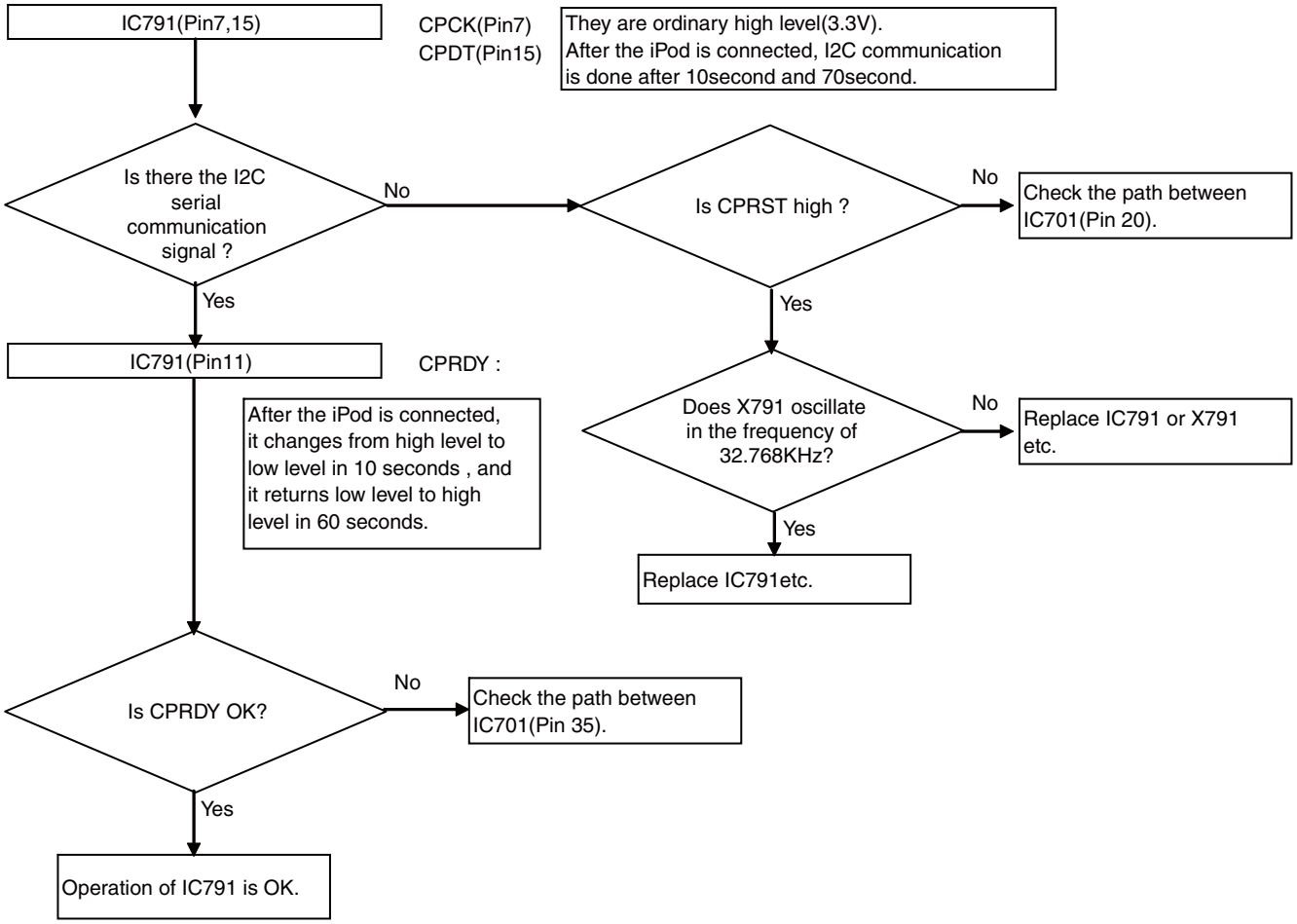
Step 6 : Audio Output



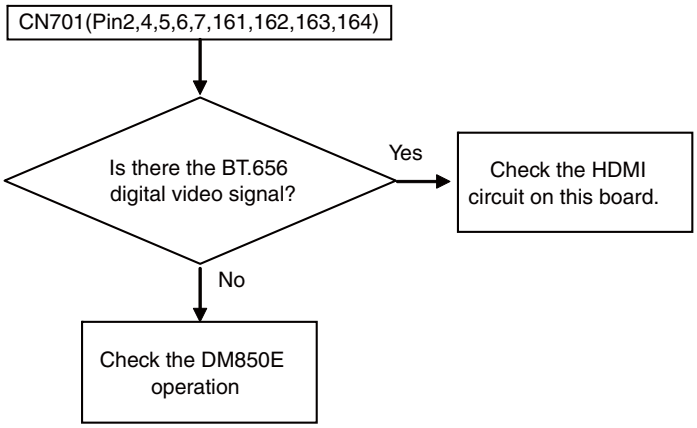
Step 7 : Audio Output (Zone2)



Step 8 : Communication between DM850E and iPod Co-Processor



Step 9 : Photo Image Output



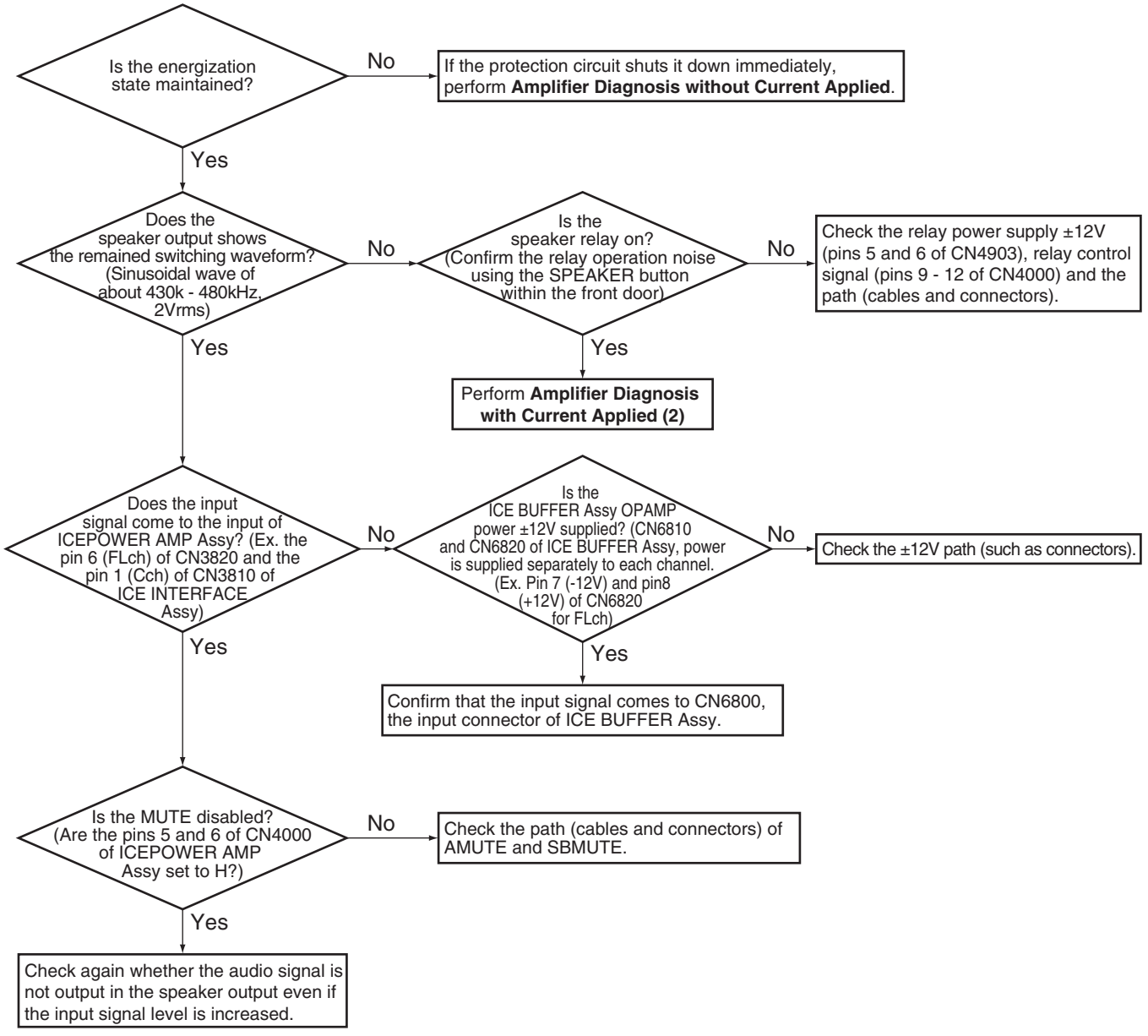
[5] Power Amp Section Troubleshooting

In the speaker output, the sinusoidal wave of about 430k - 480 kHz 2Vrms (when immediately after the current is applied with no signal/no load; the switching frequency varies by the connected load, signal level and the energizing time) is always output.
It is the switching waveform (±64V square wave) in the output stage that has been attenuated through LPF.
If such remained waveform can be observed, it can be assumed that the amplifier is operating normally.

When a signal is input to the amplifier, the output signal of the speaker shows the waveform such that the remained switching waveform is superimposed onto the audio signal. Note that when the input signal level is extremely small, it may not be easy to confirm the audio element since it is buried in the remained switching waveform (approximately 2Vrms).

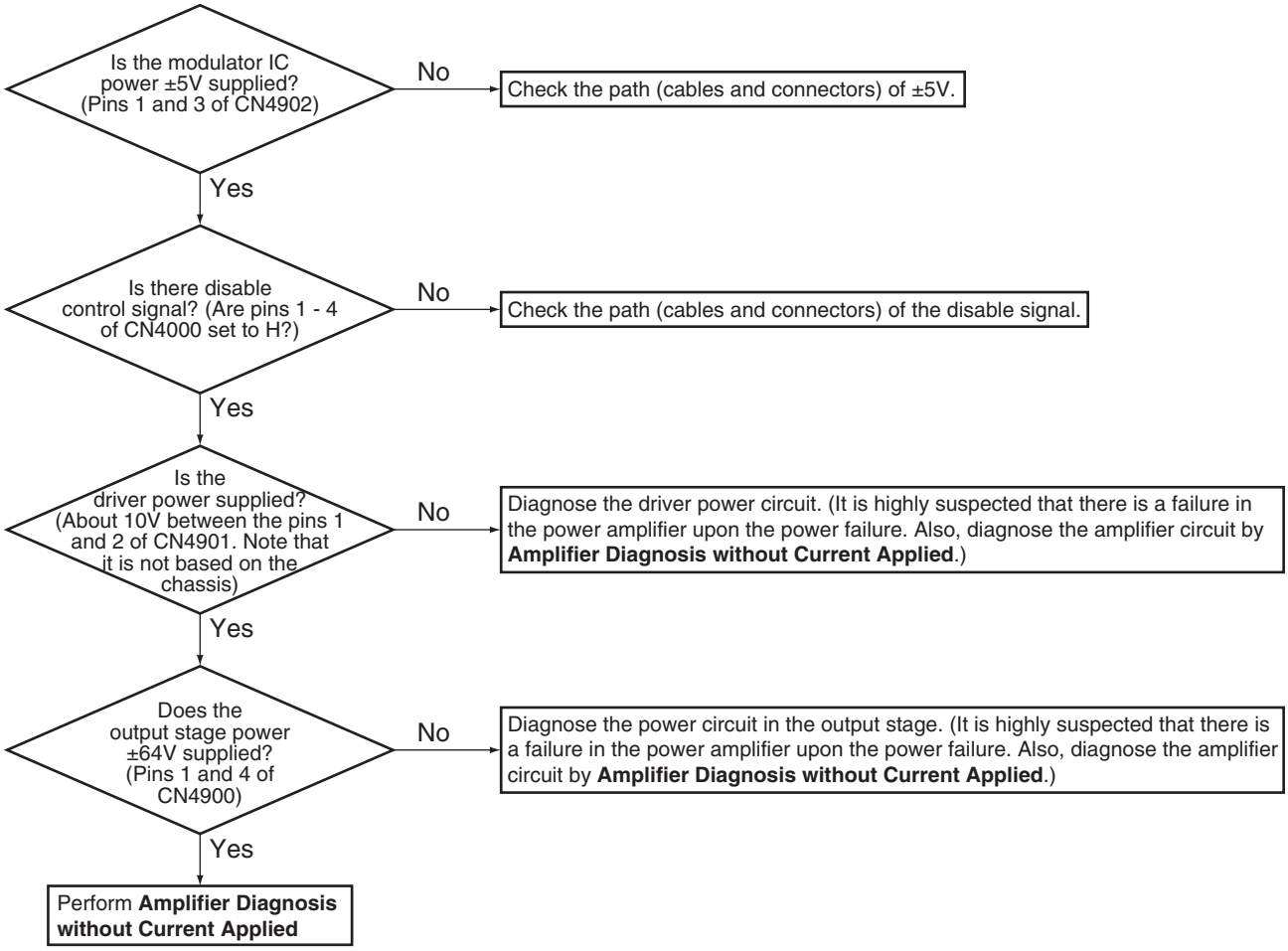
When no sound is produced with a specific function or sound mode, it is not caused by a failure in the power amplifier block. When there is a failure in the power amplifier block, no sound is produced with every function.
It is recommended to set the speaker setting to "LARGE" for all the channels and the function to "MULTI CH IN" when examining the power amplifier.

Amplifier Diagnosis with Current Applied (1)



Amplifier Diagnosis with Current Applied (2)

When the remained switching waveform is not observed in the speaker output, the amplifier is not operating.
Here, confirm that the power and signal necessary for the amplifier to operate are supplied.



Amplifier Diagnosis without Current Applied

The most common symptom of the power amplifier failure is the destruction of the power amplifier output stage or the power amplifier power circuit due to the heavy load, which is, for example, caused by short of the speaker terminal or the use of the non-guaranteed low impedance speaker.
If the protection circuit immediately shuts it down immediately after the current is applied, it is highly likely that it is the above symptom.
The procedure to diagnose/repair without applying current is shown below.

Before starting the diagnosis, wait for three minutes until the electricity is discharged.

Yes

Is the screw of the standard ground of the 12V power supply fastened? (Figure on the right)

No → Fasten the screw and check the energization. (It may not caused by a failure in the power amplifier, but just the GND not positioned properly)

Yes

Diagnosis of the power amplifier output stage (The example below uses the wiring No. of FLch.)

Check that the MOSFET is not shorted (Ex.) Q4100, Q4101
Check that the gate resistance is not damaged (Ex.) R4148, R4149
Check that the gate diode is not damaged (Ex.) D4101, D4102
Check that the gate drive transistor is not damaged
(Ex.) Q4102, Q4103, Q4104, Q4105

Diagnosis of the output stage power supply (B REG Assy)

Check that the fuses FU61 and FU62 are not burned out
Check that the transistors Q7300 and Q7301 are not damaged
Check that the diodes D7308 and D7310 are not damaged

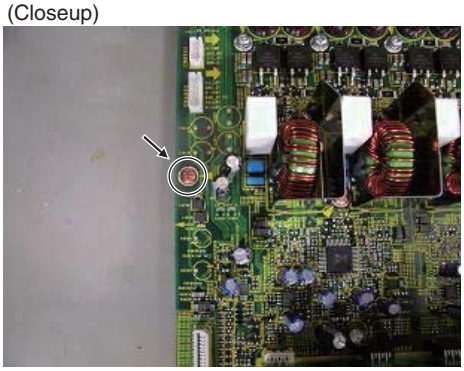
Diagnosis of the driver power supply (ICE REG Assy)

Check that the fuse FU15 is not burned out

Diagnosis of the power amplifier drive circuit (The example below uses the wiring No. of FLch) (When the driver power supply has an error, it is suspected that the power amplifier drive circuit also has an error)

Check that the driver IC is not damaged (IC4101)
Check that the L and R connected in series to the power supply are not damaged (L4104, R4147)

(Closeup)



5.2 CIRCUIT DESCRIPTION

[1] Protection Circuit Process List

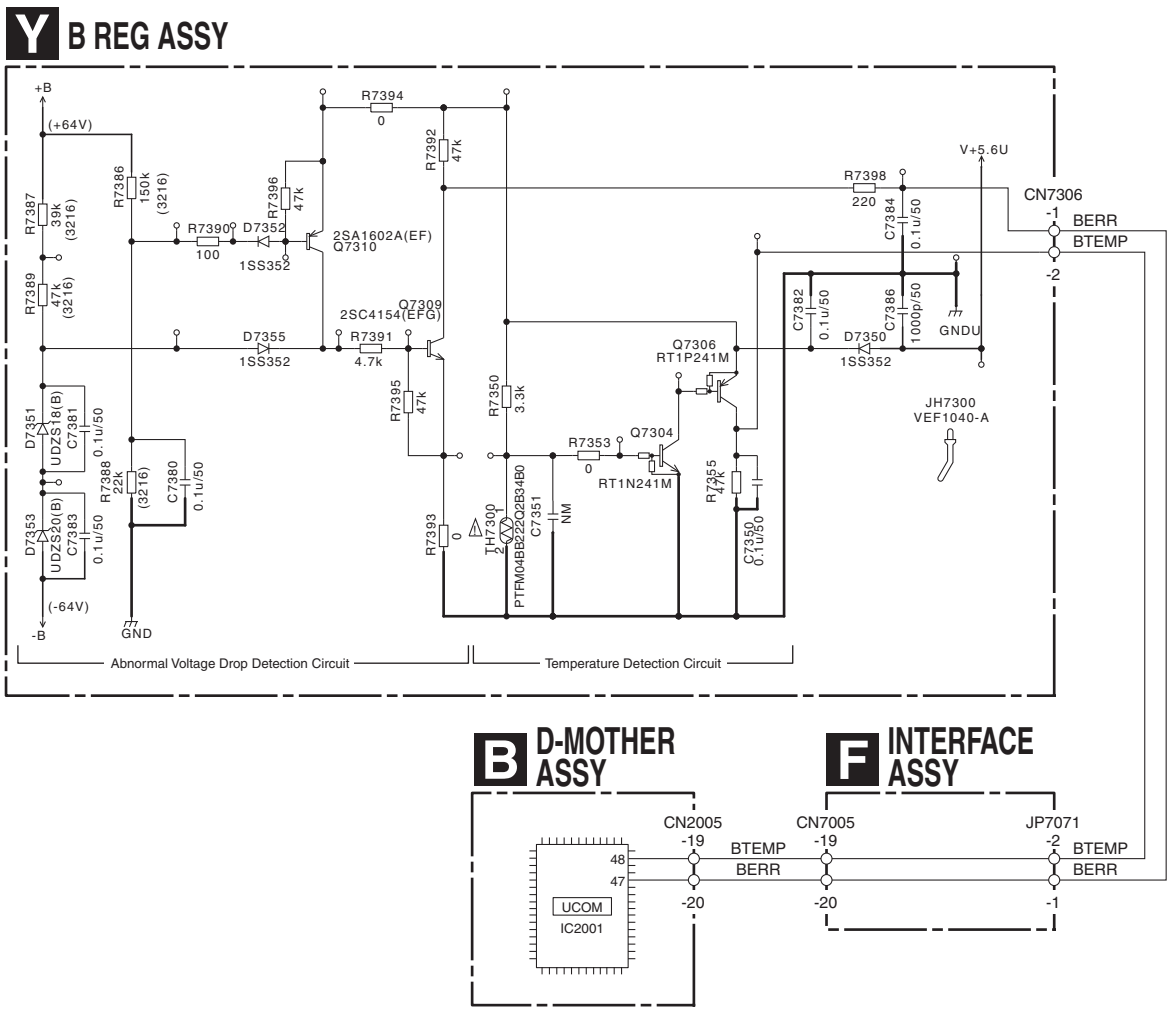
B REG Power Supply

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". (IC2001 48pin)	Flashes "OVERHEAT" indicator. Shuts down at continuation for more than 3 seconds. LED indicator continues blinking.	"OVERHEAT" and 3 second flashing. Blinks ICE blue LED indicator.	Recoverable by power-on
B REG power supply failure detection	Detect abnormal voltage drop when B REG transistor(s) becomes failure	Detects output voltage of B REG power cuicuit decreases below 38V and BERR port becomes "L". (IC2001 47pin)	Shuts down	Blinks MCACC LED	Unrecoverable

Amplifier Circuit

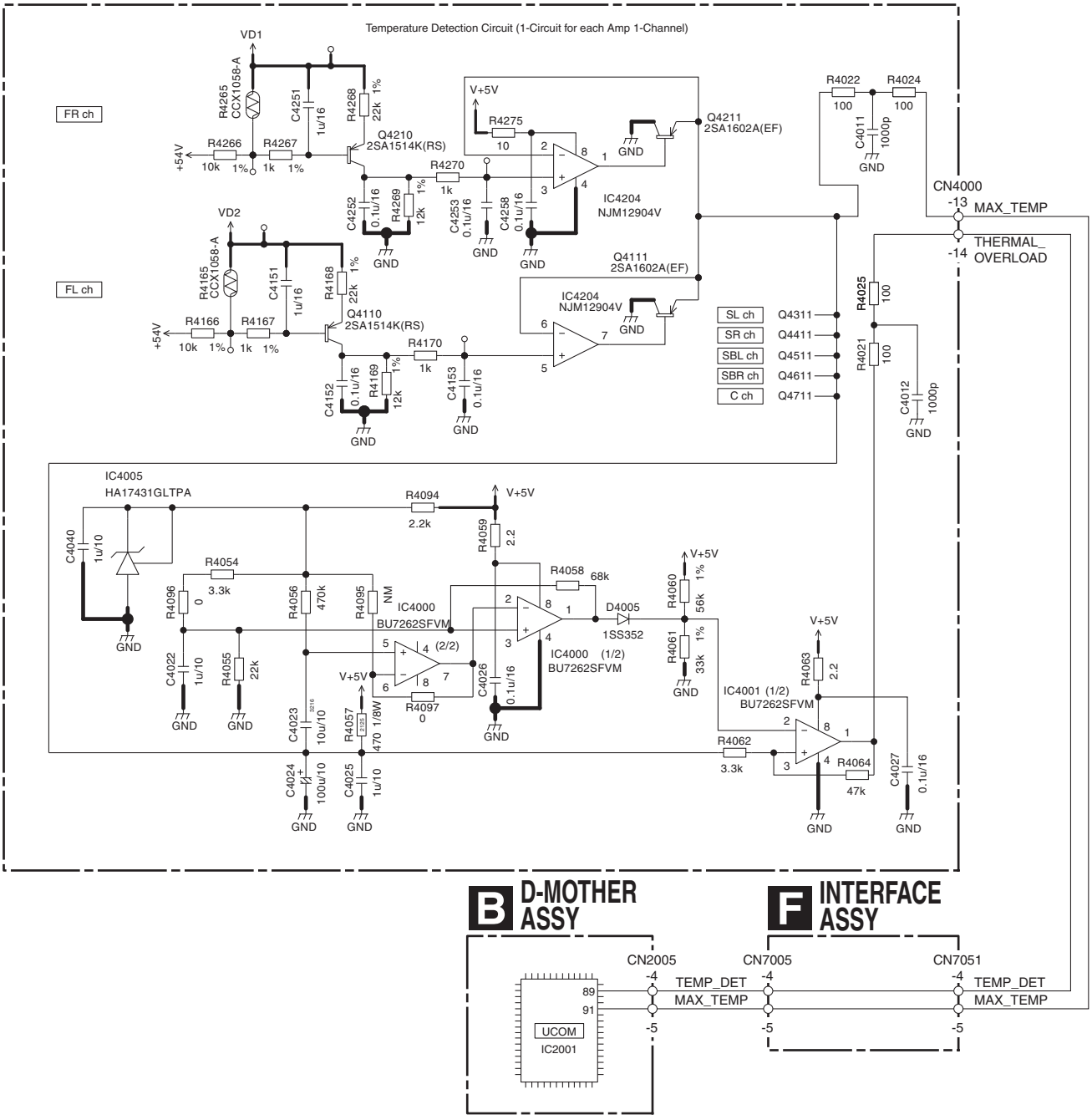
Item	Purpose	Detection Method	Status of Equipment	Warning Indication	Remarks
Overheat detection	Detects MOS FET temperature of amplifier output stage	Detects when TEMPERR PORT becomes "L" in case of the detecting temperature exceeds 95°C or rapid change by short cuicuit of speaker terminals. (IC2001 89pin)	Shuts down with FL indication of "AMP OVERHEAT". LED indicator continues blinking.	Indicates "AMP OVERHEAT". Blinks ICE blue LED indicator.	Recoverable by power-on
		Detects when MAXTEMP port becomes below 3.3V at NTC Thermistor detect circuit. (IC2001 91pin)	Fan rotates below 3.3V.		
DC detection	Detects DC of amplifier output (After LPF)	Detects when SP output exceeds DC ± 7V and DCERR port becomes "L". (IC2001 90pin)	Let MUTE on, Speater Relay off and shuts down 3 seconds after to blink MCACC LED.	Flashes "AMP ERR"indicator. Blinks MCACC LED	In case of detecting DC abnormality during power-on sequence after detecting DC. Unrecoverable
			Let MUTE on, Speater Relay off and shuts down 3 seconds after to blink ICE blue indicator.	Flashes "AMP ERR"indicator. Blinks ICE blue 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". (IC2001 88pin)	Shuts down when abnormality continues for more than 3 seconds.	Flashes "FAN STOP"indicator. Blinks Digital Video Scaler 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". (IC2001 17pin)	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". (IC2001 17pin)	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". (IC2001 17pin) AMP_Overload DET	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

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



Overheat Detection

Q ICEPOWER AMP ASSY



B D-MOTHER ASSY

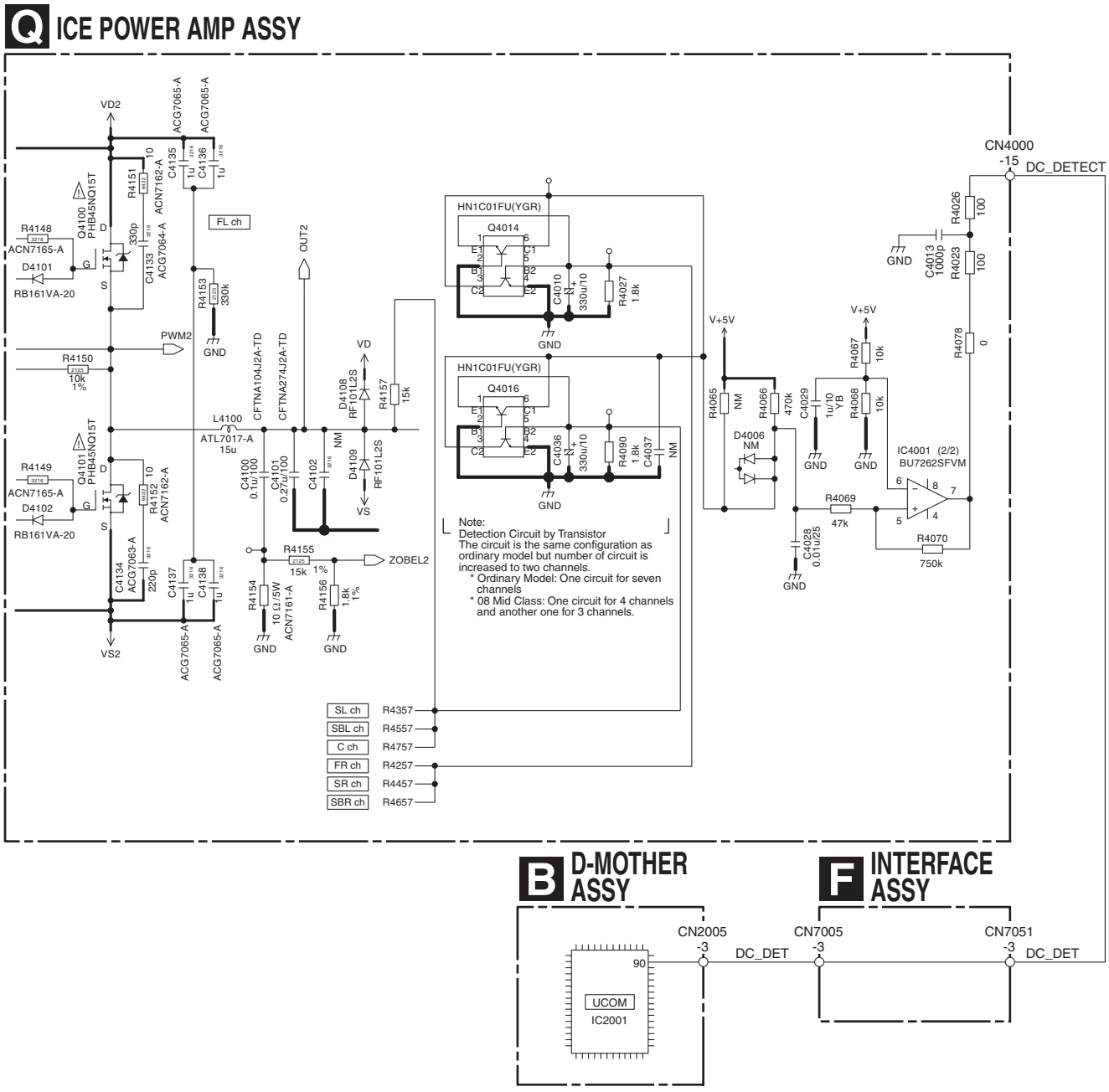
CN2005
-4 TEMP_DET
MAX_TEMP
-5

F INTERFACE ASSY

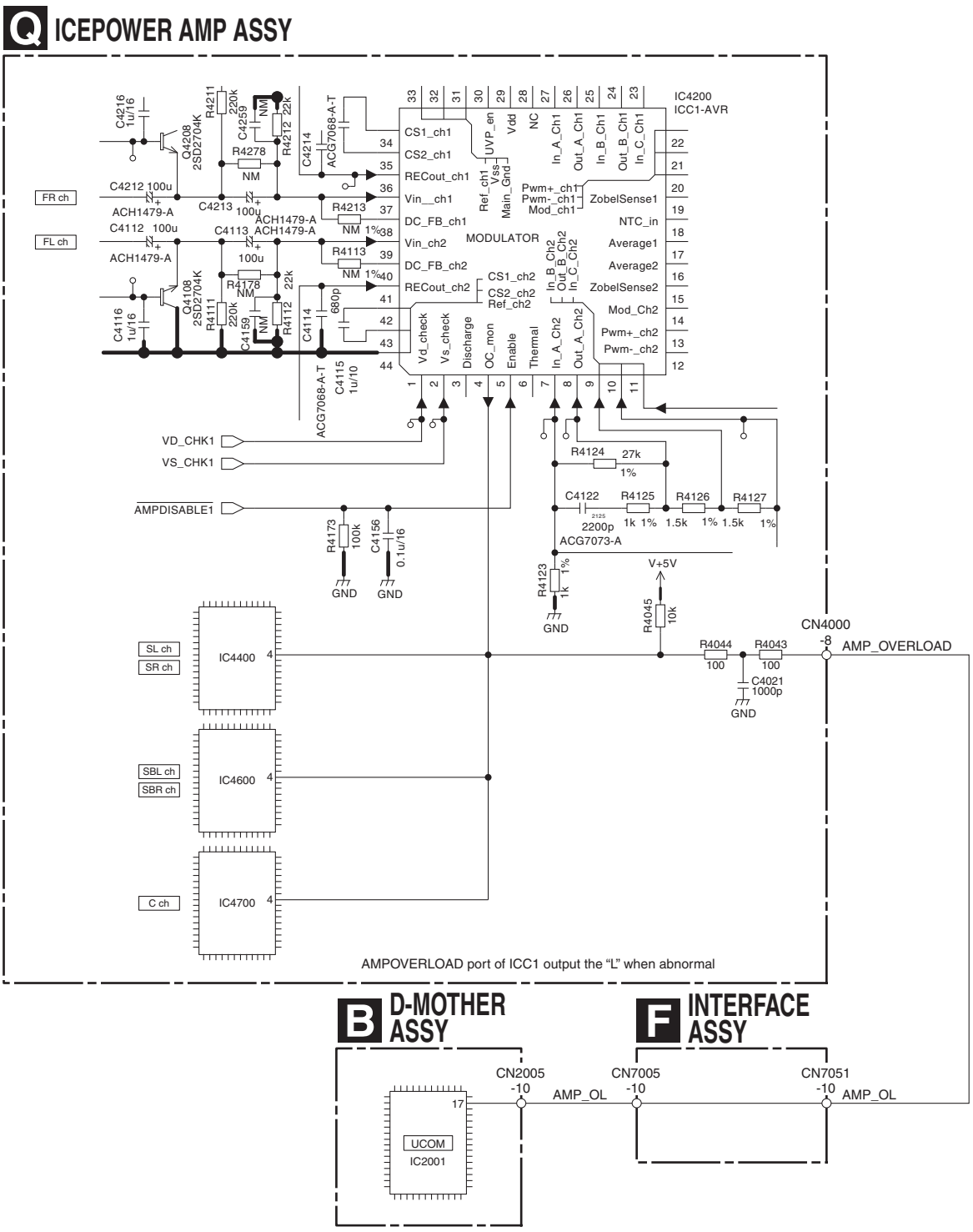
CN7005
-4 TEMP_DET
MAX_TEMP
-5

CN7051
-4 TEMP_DET
MAX_TEMP
-5

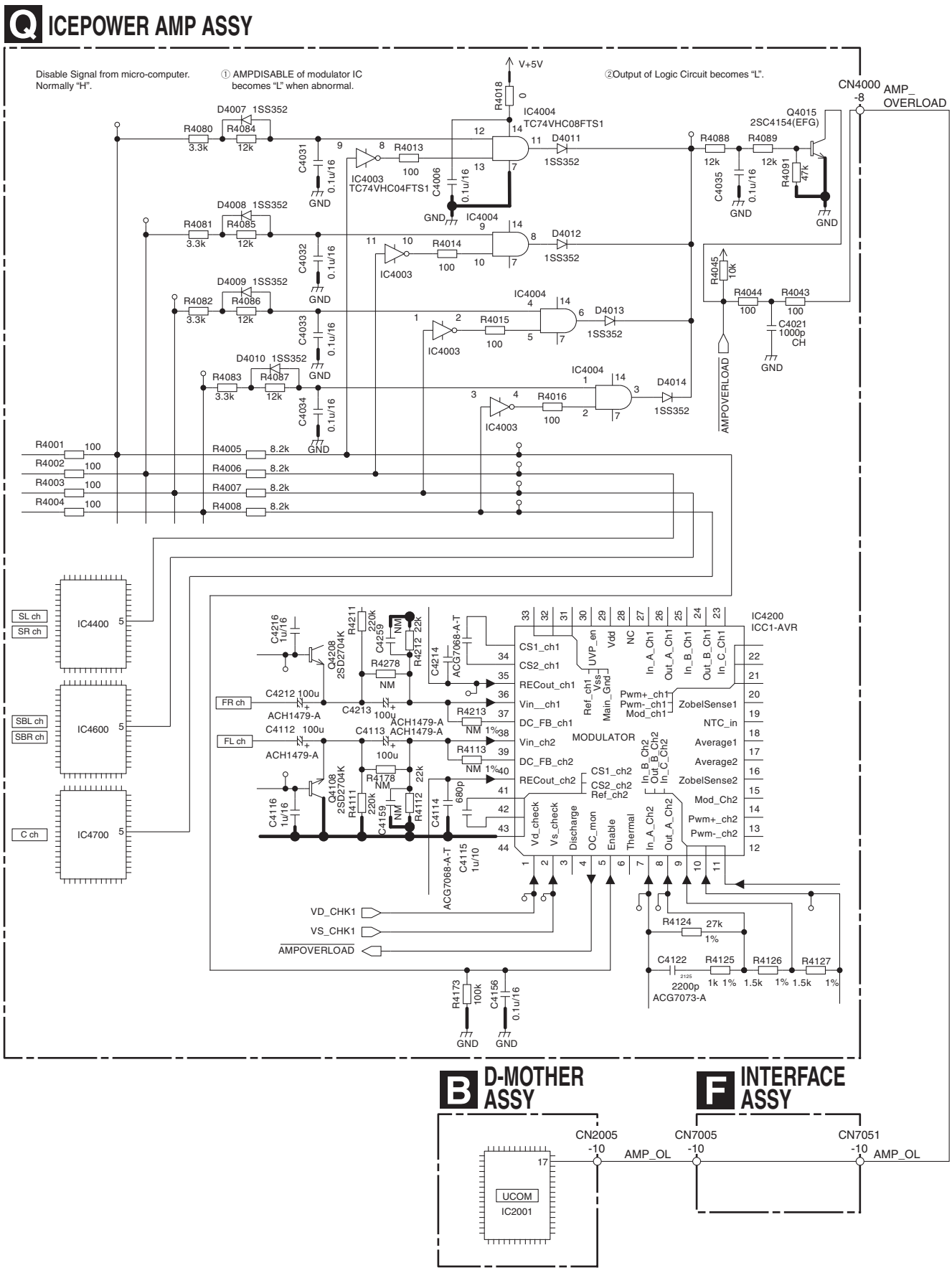
DC Detection



Zobel Detection
Over Current Detection of MOS FET in Output Stage



Low Voltage Detection for Amplifier Power Supply



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

[Purpose]

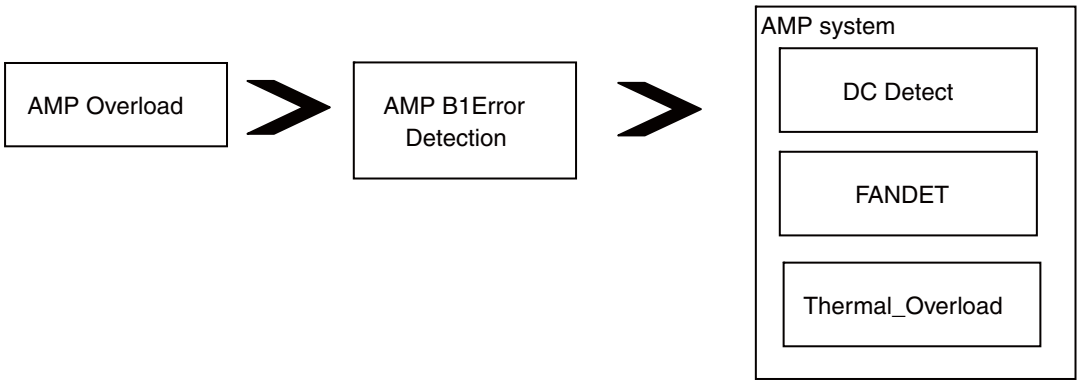
Errors upon detection of abnormalities in the amp system are indicated.

[Error indications]

	FL Display	LED flashes	Status	Timing (sec.)	Remarks
(1)	AMP ERR	ICE Blue LED	When the AMP DC is detected during normal operation.	FL flashes 3 times. LED flashes after the power off.	
		MCACC LED	When the AMP DC is detected during power-on sequence after the DC output was once detected.	FL flashes 3 times. LED flashes after the power off.	
(2)	NA	PHASE CONTROL	When an abnormality of electric current of output stage is detected.	LED flashes after the power off.	
(3)	NA	PHASE CONTROL	When an abnormality of overheat of output stage is detected.	LED flashes after the power off.	
(4)	FAN STOP	VIDEO SCALER	When an abnormality is detected in the fan for the AMP.	FL flashes 3 times. LED flashes after the power off.	
(5)	OVERHEAT	ICE Blue LED	When an abnormality of overheat is detected in the power supply B REG circuit.	FL flashes 3 times. LED flashes after the power off.	Abnormality detection in the power supply B REG circuit
(6)	NA	MCACC LED	When an abnormality is detected in the ouput voltage of the power supply B REG circuit.	LED flashes after the power off.	
(7)	12V TRG ERR	NA	When the 12V trigger circuit is short-circuited.	Flashes	
(8)	USB ERROR1	NA	When the overload USB device (over500 mA) is connected.	Flashes	
(9)	HDCP ERROR	NA	When an HDCP ERROR is detected.	Flashes 5 seconds	Warning indication for HDMI Simplay
(10)	NOT SUPPORT	NA	When the monitor outputs a non supported video format.	Flashes 5 seconds	
(11)	HDMI NG	NA	When an error is detected during communication with the HDMI micro-computer.	Flashes	Warning indication for microcomputer commnunication
(12)	DSP NG	NA	When an error is detected during communication with the DSP micro-computer.	Flashes	

[Detection and display priority]

In principle, the abnormality is preferentially detected as the following order.



[Descriptions]

(1)	AMP ERR	In Normal Operation mode, if a failure in the amp block or high DC output is detected, "AMP ERR" appears and starts flashing, and the shutdown process starts. The power is shut off, and the ICE Blue LED starts flashing. To restore the previous status 1 minutes or more after a shutdown, just turn the unit back on.
		If a failure in the amp block or high DC output is detected during a power-on sequence after high DC output was once detected, "AMP ERR" appears and starts flashing, and the shutdown process starts. The power is shut off, and the MCACC LED starts flashing. To restore the previous status, follow the procedure described in "How to Enter Release Mode" below then turn the unit back on. If the unit shuts off again, the AMP block may be in failure.
(2)	Overcurrent detection	Upon detection of overcurrent in the MOSFET at the amp output stage, the unit power off immediately, and the PHASE CONTROL LED starts flashing. The previous stage will be restored when the unit is turned back on.
(3)	Overheat detection	If abnormality temperature is detected in the MOSFET at the amp output stage, the unit power off immediately, and the PHASE CONTROL LED starts flashing. To restore the previous status, turn the unit back on.
(4)	FAN STOP	If abnormality is detected in the fan for the AMP, "FAN STOP" appears and starts flashing, and the shutdown process starts. The power is shut off. The VIDEO SCALER LED starts flashing. To restore the previous status, turn the unit back on.
(5)	OVERHEAT	If abnormality temperature is detected in the power supply B REG circuit, the unit power off immediately, and the ICE Blue LED starts flashing. To restore the previous status, turn the unit back on.
(6)	Failure in the power supply B REG circuit	If abnormality voltage is detected in the power supply B REG circuit, the unit power off immediately, and the MCACC LED starts flashing. To restore the previous status, follow the procedure described in "How to Enter Release Mode" below then turn the unit back on. If the unit shuts off again, the AMP block may be in failure.
(7)	12V TRG ERR	The 12V trigger circuit is short-circuited, and a overcurrent is generated.
(8)	USB ERROR1	The connected USB device is overload.
(9)	HDCP ERROR	The monitor does not support HDCP type or is in standby mode.
(10)	NOT SUPPORT	When an input analog signal is converted and output as an HDMI signal (via the scaler), the output signal is of a resolution not supported by the connected monitor.
(11)	HDMI NG	There is no response from the HDMI microcomputer.
(12)	DSP NG	There is no response from the DSP microcomputer.

[How to Enter Release Mode]

During Standby mode, simultaneously press and hold the " ⬇ (DOWN)" and "ZONE2 ON/OFF" keys for 2 seconds.

6. SERVICE MODE
6.1 TEST MODE

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

[1] How to Enter The Service Mode

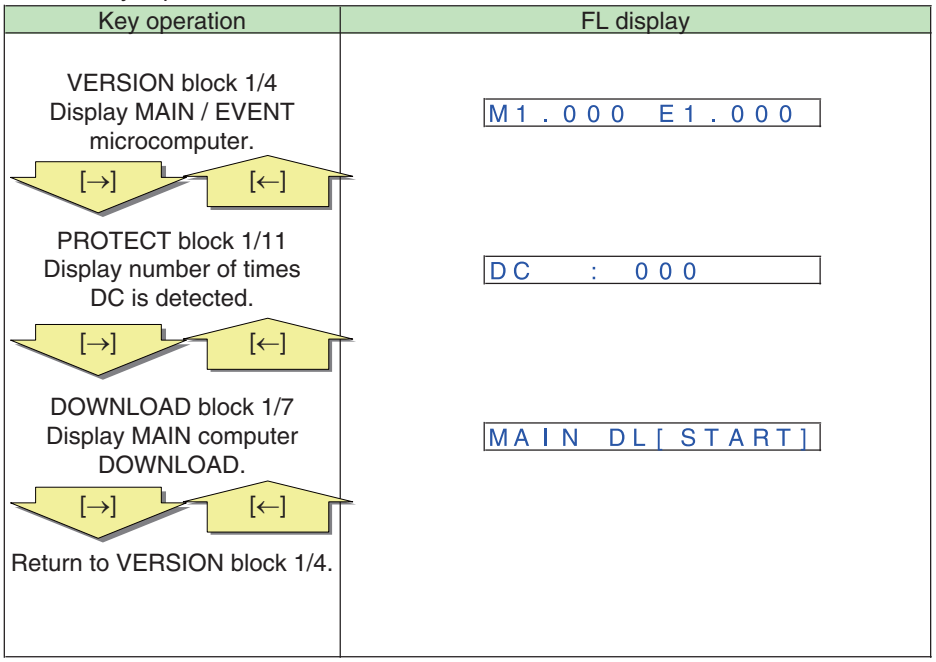
1. Turn off MULTI-ZONE. Lower MASTER VOLUME to the minimum (---dB) and turn off the power.
2. After the power-off, press and hold down both the "ENTER" key and the "MULTI-ZONE ON/OFF" key for approximately five seconds.

[2] How to Exit The Service Mode

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

[3] Mode Transition Methods For Each of The VERSION Block, PROTECT Block and DOWNLOAD Block

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



1) VERSION block

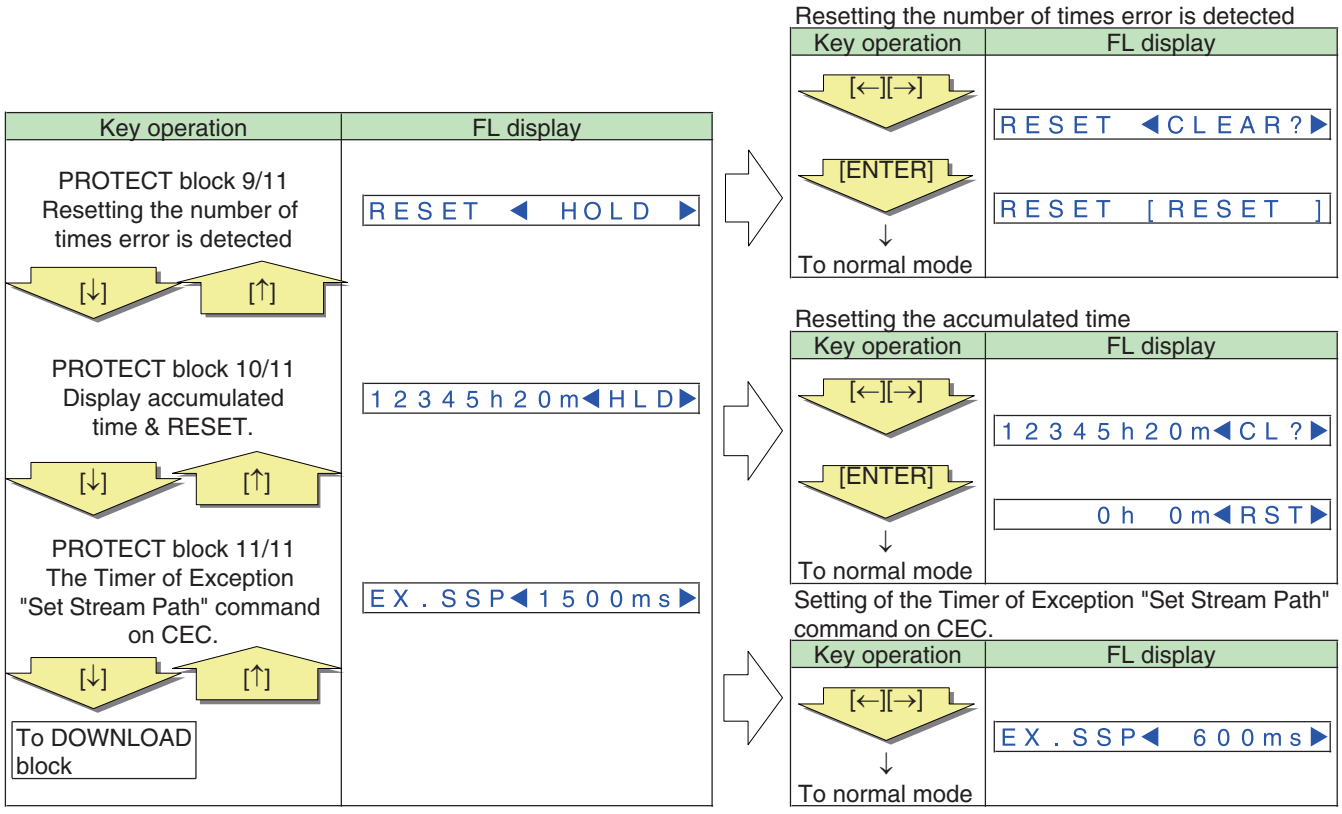
This block displays version information of various microcomputers and DSP firmware.
*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

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

2) PROTECT block

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

Key operation	FL display
PROTECT block 1/11 Display number of times DC is detected. [↓] [↑]	DC : 000
PROTECT block 2/11 Display number of times OVERLOAD is detected. [↓] [↑]	OVER: 010
PROTECT block 3/11 Display number of times COMBINATION is detected. (Detects DC and OVERLOAD simultaneously) [↓] [↑]	CON : 002
PROTECT block 4/11 Displays number of times FAN error is detected. [↓] [↑]	FAN : 002
PROTECT block 5/11 Display number of times overheat is detected. [↓] [↑]	TEMP1: 255
PROTECT block 6/11 Display number of times abnormal temperature is detected. [↓] [↑]	TEMP2: 255
PROTECT block 7/11 Displays number of times abnormal temperature at PowerAmp supply is detected. [↓] [↑]	**BTMP: 126**
PROTECT block 8/11 Display number of times defect at PowerAmp supply is detected. [↓] [↑]	**BERR: 125**


Key operation
FL display
PROTECT block 9/11
Resetting the number of times error is detected
[↓]
[↑]
RESET ◀ HOLD ▶
PROTECT block 10/11
Display accumulated time & RESET.
[↓]
[↑]
12345h20m◀HLD▶
PROTECT block 11/11
The Timer of Exception "Set Stream Path" command on CEC.
[↓]
[↑]
EX.SSP◀1500ms▶
To DOWNLOAD block
Resetting the number of times error is detected
Key operation
FL display
[←][→]
[ENTER]
To normal mode
RESET ◀CLEAR?▶
RESET [RESET]
Resetting the accumulated time
Key operation
FL display
[←][→]
[ENTER]
To normal mode
12345h20m◀CL?▶
0h 0m◀RST▶
Setting of the Timer of Exception "Set Stream Path" command on CEC.
Key operation
FL display
[←][→]
To normal mode
EX.SSP◀ 600ms▶

3) DOWNLOAD block

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

Key operation	FL display
DOWNLOAD block 1/7 MAIN computer DOWNLOAD [↓] [↑]	MAIN DL[START]
DOWNLOAD block 2/7 EVENT computer DOWNLOAD [↓] [↑]	EVNT DL[START]
DOWNLOAD block 3/7 DISP computer DOWNLOAD [↓] [↑]	DISP DL[START]
DOWNLOAD block 4/7 DSP computer DOWNLOAD [↓] [↑]	DSPM DL[START]
DOWNLOAD block 5/7 HDMI computer DOWNLOAD [↓] [↑]	HDMI DL[START]
DOWNLOAD block 6/7 1stDSP FIRM DOWNLOAD [↓] [↑]	DSP1 DL[START]
DOWNLOAD block 7/7 2ndDSP FIRM DOWNLOAD [↓] [↑]	DSP2 DL[START]
To VERSION block	

7. DISASSEMBLY

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

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

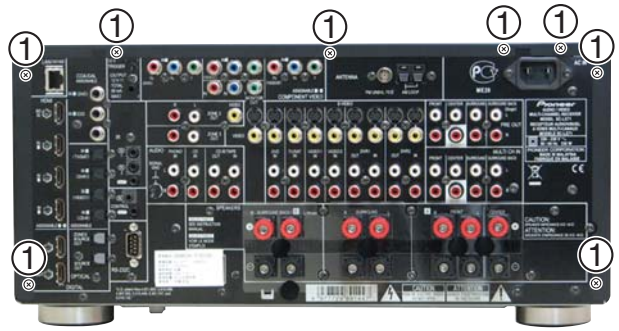
- 27P FFC (GGD1588)
- 19P FFC (GGD1589) x2
- 21P FFC (GGD1590)
- 16P FFC (GGD1591)
- 30P+13P board to board extension jig cable (GGD1592)
- 17P+19P board to board extension jig cable (GGD1593)
- 5P PH HOUSING ASSY (GGD1594) x3

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

1. Disassembly

1 Bonnet

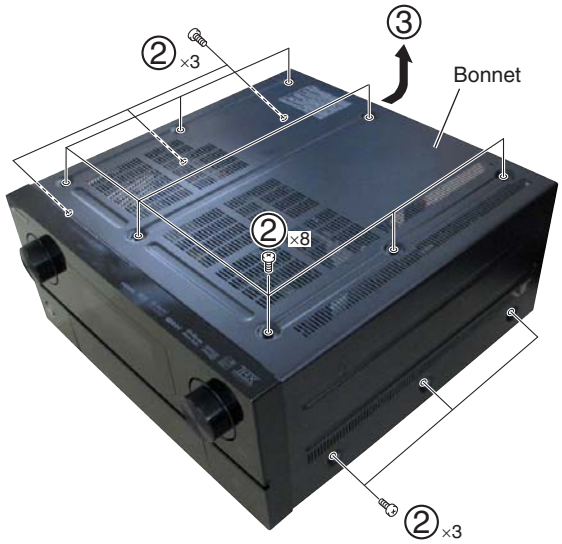
① Remove the eight screws.



● Rear view

② Remove the fourteen screws.

③ Remove the Bonnet.



2 Rear Panel

① Remove the two screws.

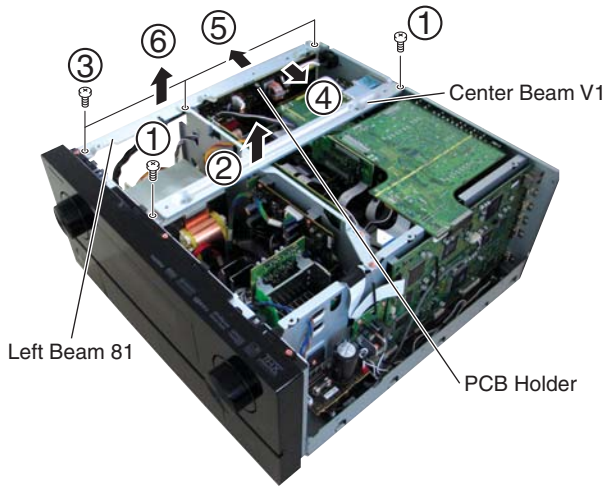
② Remove the Center Beam V1.

③ Remove the three screws.

④ Disconnect the one connector.

⑤ Remove the PCB Holder from the Left Beam 81.

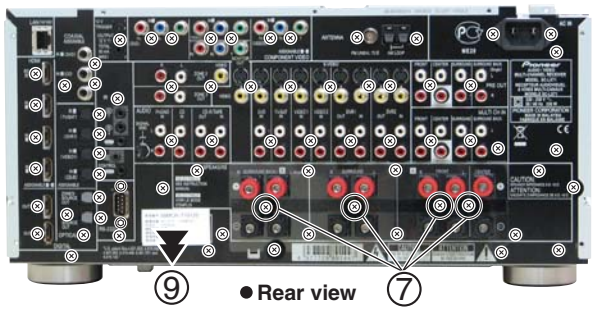
⑥ Remove the Left Beam 81.



⑦ Remove the four Cushion circle 14B.

⑧ Remove the 71 screws.

⑨ Remove the Rear Panel.

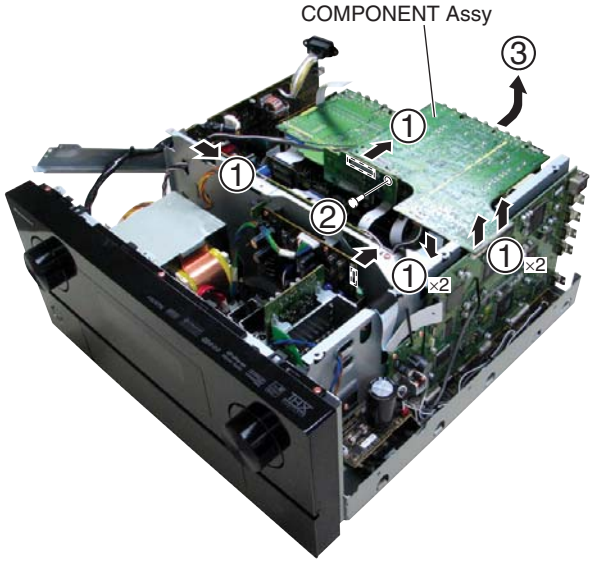


● Rear view

3 PCB Assys and ICE Cover

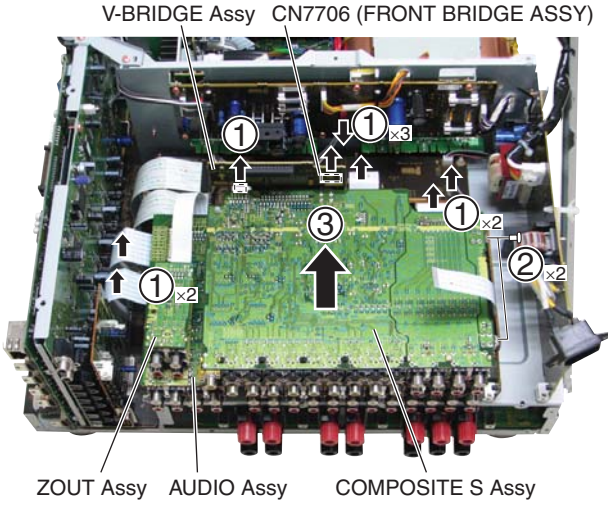
• COMPONENT Assy

① Disconnect the one flexible cable and five connectors.
② Remove the one Push Rivet.
③ Remove the COMPONENT Assy.



• AUDIO Assy, COMPOSITE S Assy, V-BRIDGE Assy and ZOUT Assy

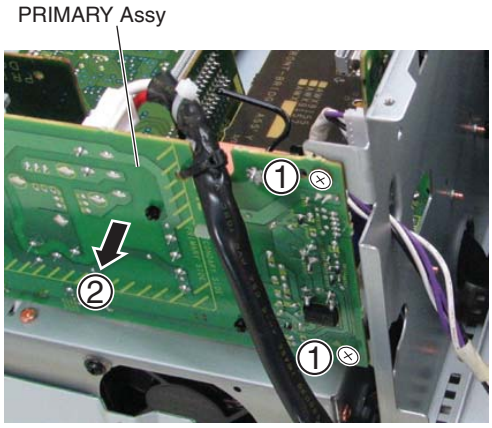
① Disconnect the six flexible cables and two connector.
② Remove the two Push Rivets.
③ Remove the AUDIO Assy, COMPOSITE S Assy, V-BRIDGE Assy and ZOUT Assy.



● **Rear view**

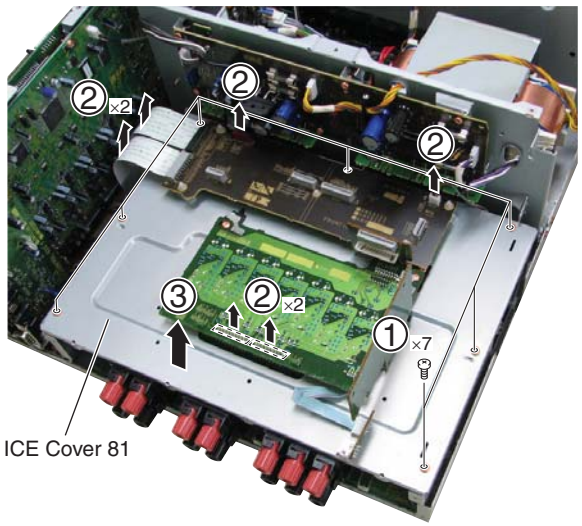
• PRIMARY Assy

① Remove the two screws.
② Remove the PRIMARY Assy.



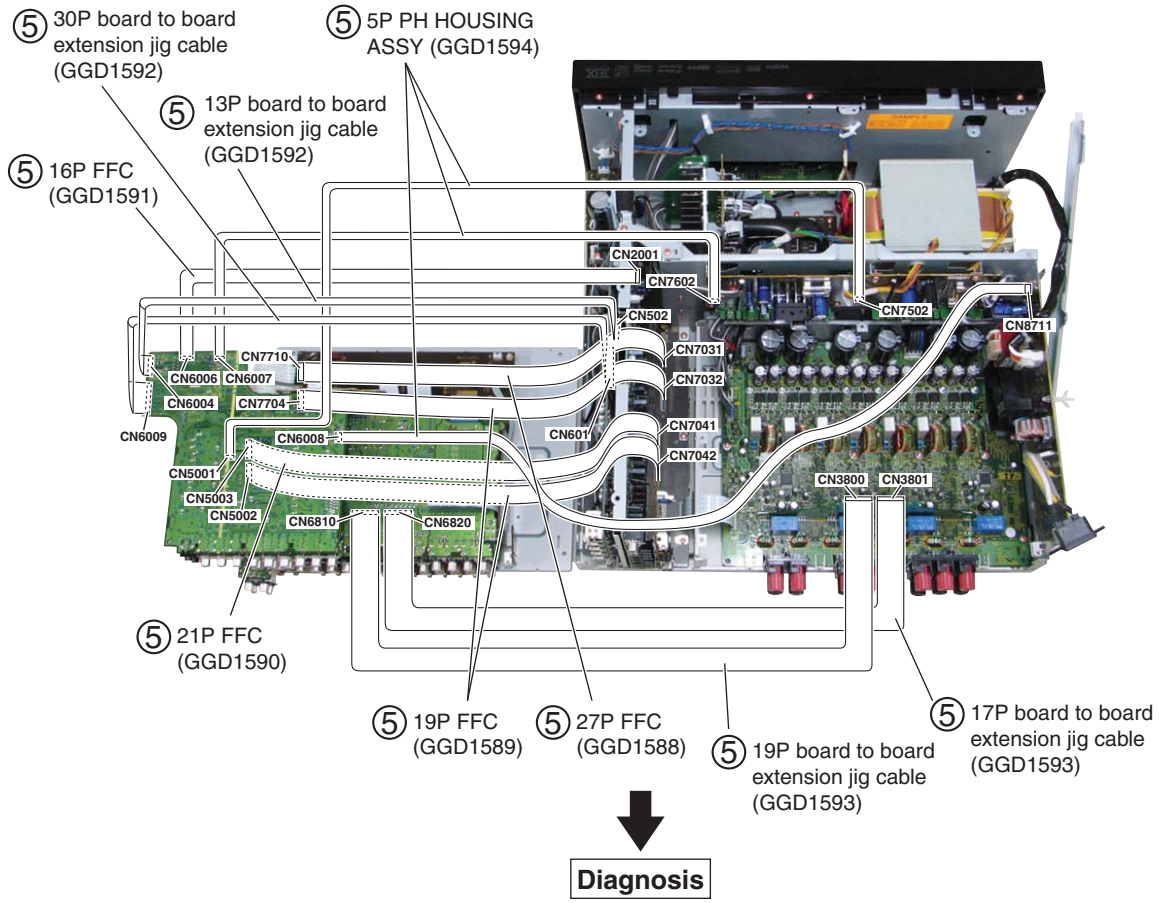
• ICE Cover 81 Section

① Remove the seven screws.
② Disconnect the two flexible cables and four connectors.
③ Remove the ICE Cover 81.



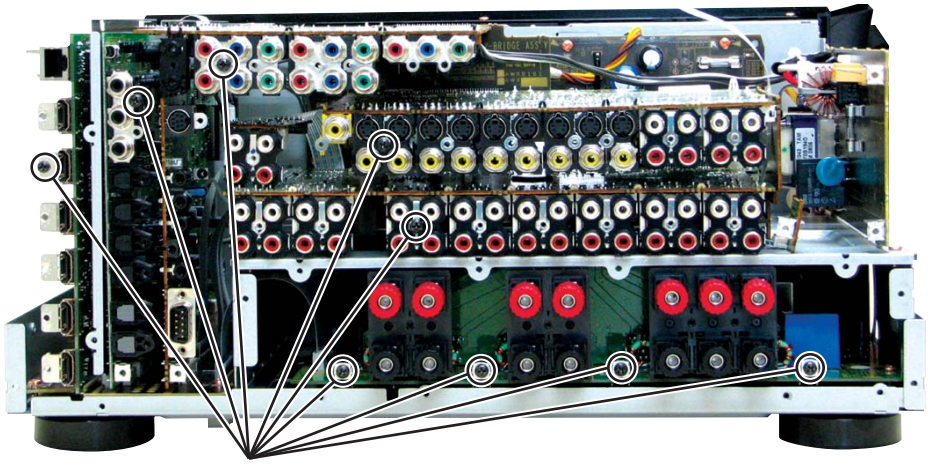
4 Diagnosis

① Reassembling the PRIMARY Assy.
② Reassembling the AUDIO Assy, COMPOSITE S Assy, V-BRIDGE Assy and ZOUT Assy on the Ice Cover 81.
③ Reassembling the COMPONENT Assy on the V-BRIDGE Assy.
④ Connect the twelve extension jig cables.
⑤ Arrange the unit as shown in the photo below.



Diagnosis

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



Points to be connected to the chassis

8. EACH SETTING AND ADJUSTMENT

8.1 HOW TO UPDATE FIRMWARE

[1] MAIN, DSP, HDMI, EVENT and DISP Microcomputer

[Purpose]

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

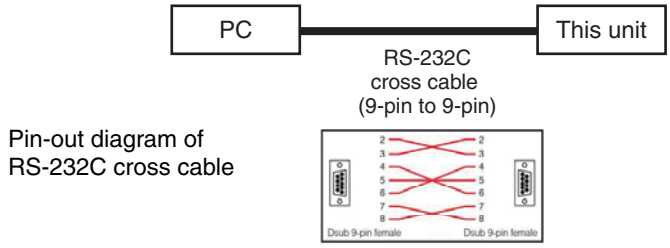
[Necessary Tools]

- PC with a serial port
- RS-232C cable (9-pin to 9-pin, cross)
- Firmware ("mot" extension) **(except DISP u-com)**
  ("sz0" extension) **(for DISP u-com)**
- Program for updating (ufu.exe: ver. 1.08) **(except DISP u-com)**
  (ufu.exe: ver. 1.10) **(for DISP u-com)**

[Connections)]

Connect as indicated in the figure right:

(MAIN microcomputer)
(EVENT microcomputer)
(HDMI microcomputer)
(DSP microcomputer)
(DISP microcomputer)



[Note]

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

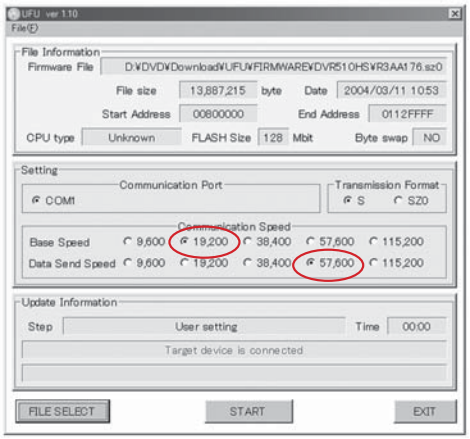
1) HDMI, MAIN, DSP and EVENT microcomputer

[Procedures]

1. Turn off the power to this unit by setting the main volume level to "---dB" and Multi-Zone to "OFF".
2. Connect the 232C cross cable and the PC, as indicated in "Connections".
3. Simultaneously press and hold the ENTER and MULTI-ZONE ON/OFF keys for about 5 seconds.
4. Turn the power ON at CONFIDENTIAL PANEL mode.
5. (MAIN microcomputer)
   Press ↓ key and select “MAIN DL [START]” display.
   Press ENTER key and set to “MAIN DL [GO ON]”.
   (EVENT microcomputer)
   Press ↓ key and select “EVNT DL [START]” display.
   Press ENTER key and set to “EVNT DL [GO ON]”.
   (DSP microcomputer)
   Press ↓ key and select “DSPM DL [START]” display.
   Press ENTER key and set to “DSPM DL [GO ON]”.
   (HDMI microcomputer)
   Press ↓ key and select “HDMI DL [START]” display.
   Press ENTER key and set to “HDMI DL [GO ON]”.
6. Double-click on "ufu.exe: ver.1.08".
7. Check that "Full" is selected in MODE SELECT.
8. Select the firm ware file with "**mot**" extension.
9. Select the communication speed.
   - Basic speed: 19200
   - Data transfer speed: 57600
10. Click on "START" button.
11. "Completed" is displayed in the"ufu.exe" window.
12. Please retry it from 2 when it doesn’t so well.
13. Turn off the unit and end the ufu.exe.

    Disconnect the AC power cord of the unit.
    and the RS-232C cable.
14. Clear the memories.
    1) Connect the AC power cord of the unit
    2) Press “SETUP” button and “POWER” button.
    3) Then the receiver is turned on and displays“RESET[NO]”.
    4) Push “→” key and displays “RESET [RESET]”
    5) Then push “ENTER” key and displays “RESET? [OK]”.
    6) Push “ENTER” key and often a while “OK” is displayed.
15. Check the version.
    Following the procedures described in "Version indication" in "6.1 TEST MODE", check that the version has been changed to a new one.

Check that "Full" is selected in MODE SELECT.

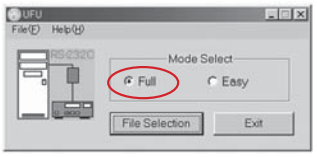


Select the communication speed.
- Basic speed: 19200
- Data transfer speed: 57600

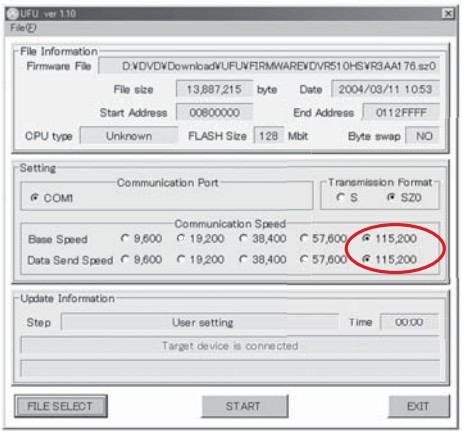
2) DISP microcomputer

[Procedures]

1. Turn off the power to this unit by setting the main volume level to "---dB" and Multi-Zone to "OFF".
2. Connect the 232C cross cable and the PC, as indicated in "Connections".
3. Simultaneously press and hold the ENTER and MULTI-ZONE ON/OFF keys for about 5 seconds.
4. Turn the power ON at CONFIDENTIAL PANEL mode.
5. (DISP microcomputer)
   Press ↓ key and select “DISP DL [START]” display.
   Press ENTER key and set to “DISP DL [GO ON]”.
6. Double-click on "ufu.exe: ver.1.10".
7. Check that "Full" is selected in MODE SELECT.
8. Select the firm ware file with "**sz0**" extension.
9. Select the communication speed.
   - Basic speed: 115200
   - Data transfer speed: 115200
10. Click on "START" button.
11. "Completed" is displayed in the"ufu.exe" window.
12. Please retry it from 2 when it doesn’t so well.
13. Turn off the unit and end the ufu.exe.
    Disconnect the AC power cord of the unit.
    and the RS-232C cable.
14. Clear the memories.
    1) Connect the AC power cord of the unit
    2) Press “SETUP” button and “POWER” button.
    3) Then the receiver is turned on and displays “RESET [NO]”.
    4) Push “→” key and displays “RESET [RESET]”
    5) Then push “ENTER” key and displays “RESET? [OK]”.
    6) Push “ENTER” key and often a while “OK” is displayed.
15. Check the version.
    Following the procedures described in "Version indication" in "6.1 TEST MODE",
    check that the version has been changed to a new one.



Check that "Full" is selected in MODE SELECT.



Select the communication speed.
- Basic speed: 115200
- Data transfer speed: 115200

[2] DSP Flash Rom Update by USB Memory

[Preparations]

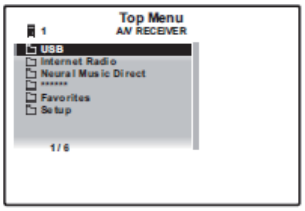
1. Copy the DSP Firmware for update to the USB MEMORY in advance.
   * One file for DSP1 and DSP2
   * Unable to update by the program except for 08 Mid receiver.
2. Connect the MONITOR OUT of this unit to DISPLAY.
3. Turn off the power to this unit by setting the main volume level to "---dB" and Multi-Zone to "OFF".
4. Connect the USB MEMORY to the iPod DIRECT USB terminal of this unit.

[Procedure]

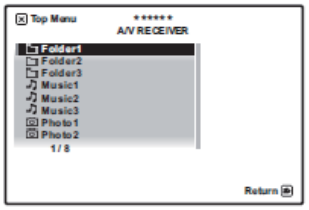
1. Simultaneously press and hold POWER and RETURN keys for about 5 seconds.
2. The DSP firmware version is dislplayed automatically.
   Confirm the Version before the update.
   "f [*.***] s [*.***] is displayed on the FL display. **(A)**
   f: DSP1 firmware
   s: DSP2 firmware
3. Select the "USB" on the monitor TV. **(B)**
4. Select the file for Firmware update. **(C)**
5. The updating program starts and the HDMI indicator becomes flashing. **(D)**
6. After about 2 minutes, the HDMI indicator stops flashing and the update is finished.
   Confirm "DSPF DL [OK]" is displayed on the FL dislay. **(E)**
7. Turn off the unit and disconnect the USB MEMORY.

(A)

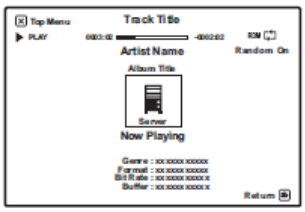
(B)



(C)



(D)



(E)

[Confirmation]

1. Simultaneously press and hold POWER and RETURN keys for about 5 seconds.
2. The DSP firmware version is dislplayed automatically.
   Confirm the Version after the update. **(F)**

(F)

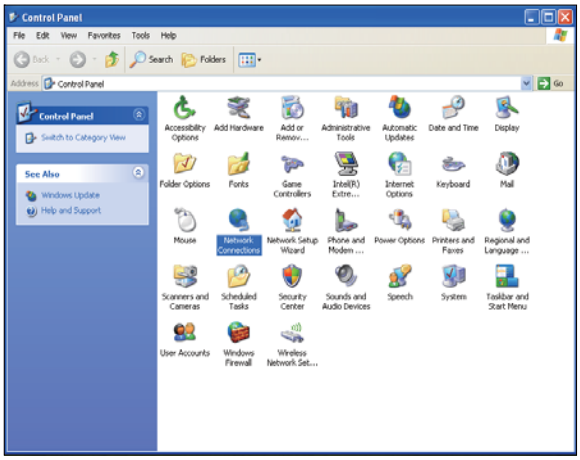
[3] Network Firmware Update Procedure

Note: Please prepare the firmware file in your PC before starting this procedure.

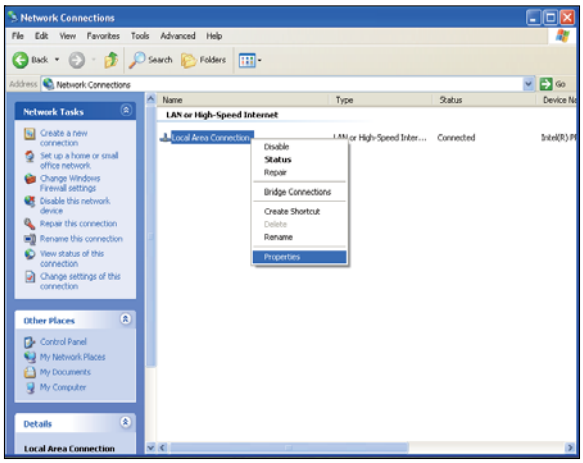
[Procedure]

1. Connect the LAN terminal on the AV receiver to the LAN terminal on PC with a LAN cable (cross or straight).
2. Set the Static IP Address of the PC.
   *When using the DHCP router, go to Step 3.
   It is not necessary to execute this Step 2 in that case.

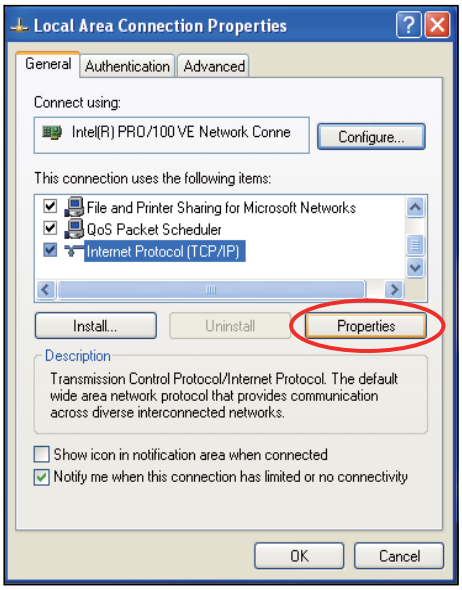
Open the Control Panel. --->
Open the Network Connections (double click).



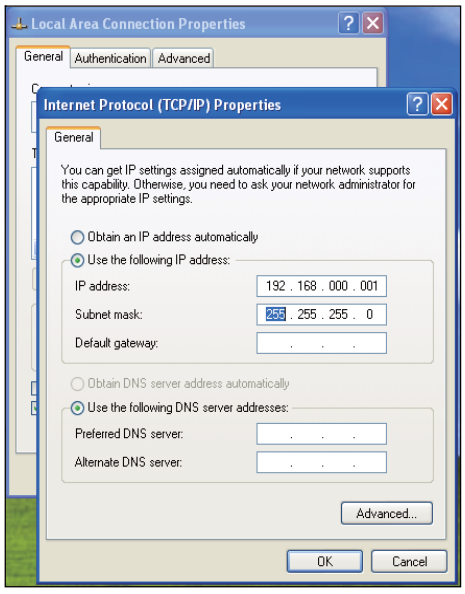
Local Area Connection (right click) ---> Properties



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

3. Set the Static IP Address of the AV receiver.

Note: Please confirm the Network IP settings of the customer's unit before changing the IP Address.
Home Media Gallery ---> Setup ---> NetworkSetup ---> NetworkFound ---> Static IP Address
If using the Static IP Address, please record it.

Home Media Gallery ---> Setup ---> NetworkSetup ---> NetworkFound ---> Static IP Address Change

Set the following settings.

IP address: 192.168.000.002

Subnet mask: 255.255.255.0

Gateway IP: 192.168.000.001

Proxy Server: No

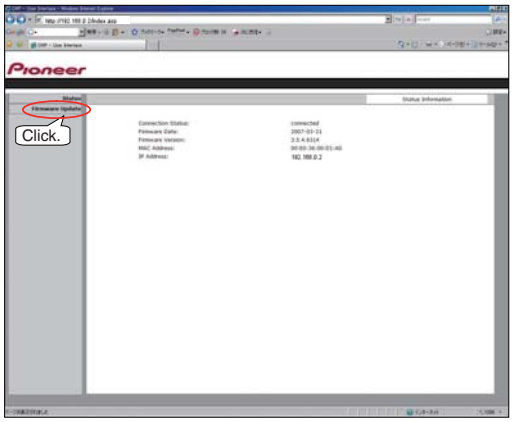
4. Open the Internet Explorer on the PC.

Enter the following address.

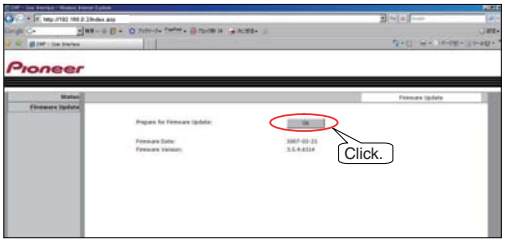
http:// 192.168.000.002

The following page will be appeared.

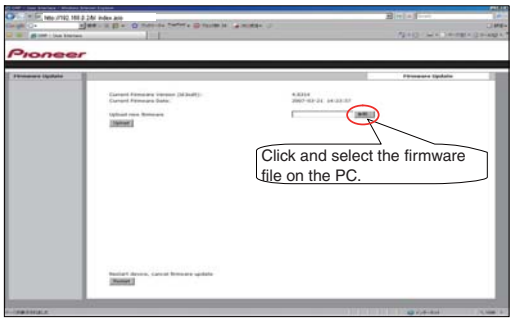
Click the Firmware Update.



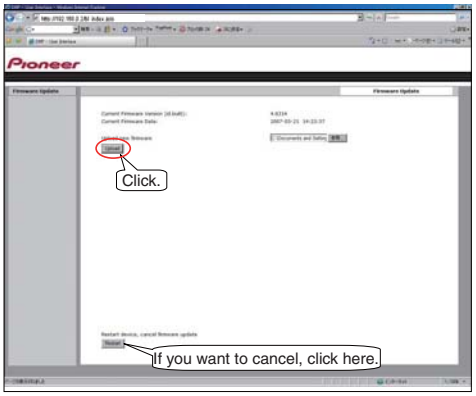
Click the Ok button.



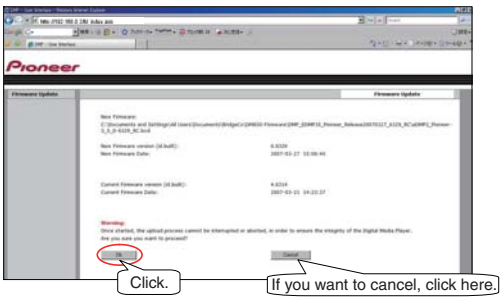
Click the browse button and select the firmware file in the PC.



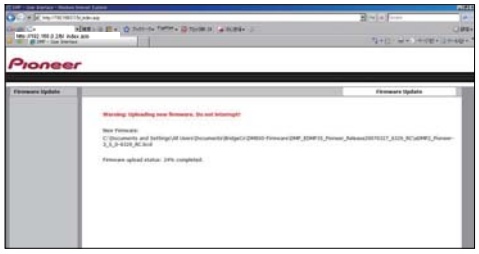
Click the Upload button.



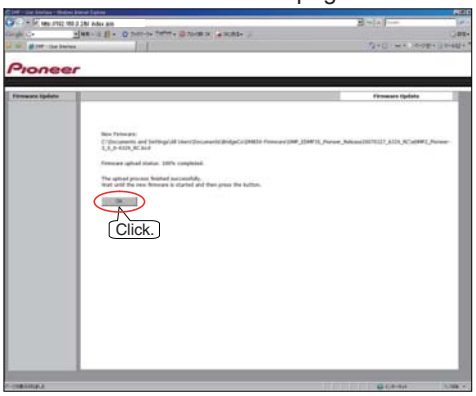
Click the Ok button.



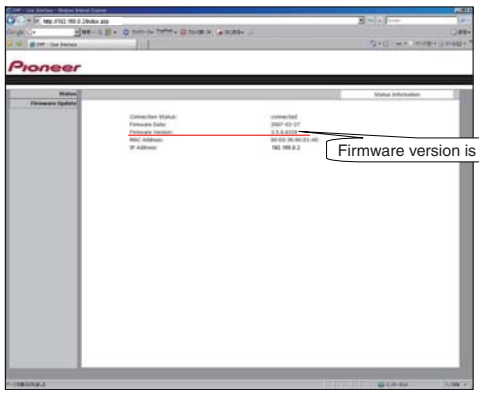
The firmware update will be started.



After the updating is completed, click the Ok button to return status page.



Confirm the Firmware Version.

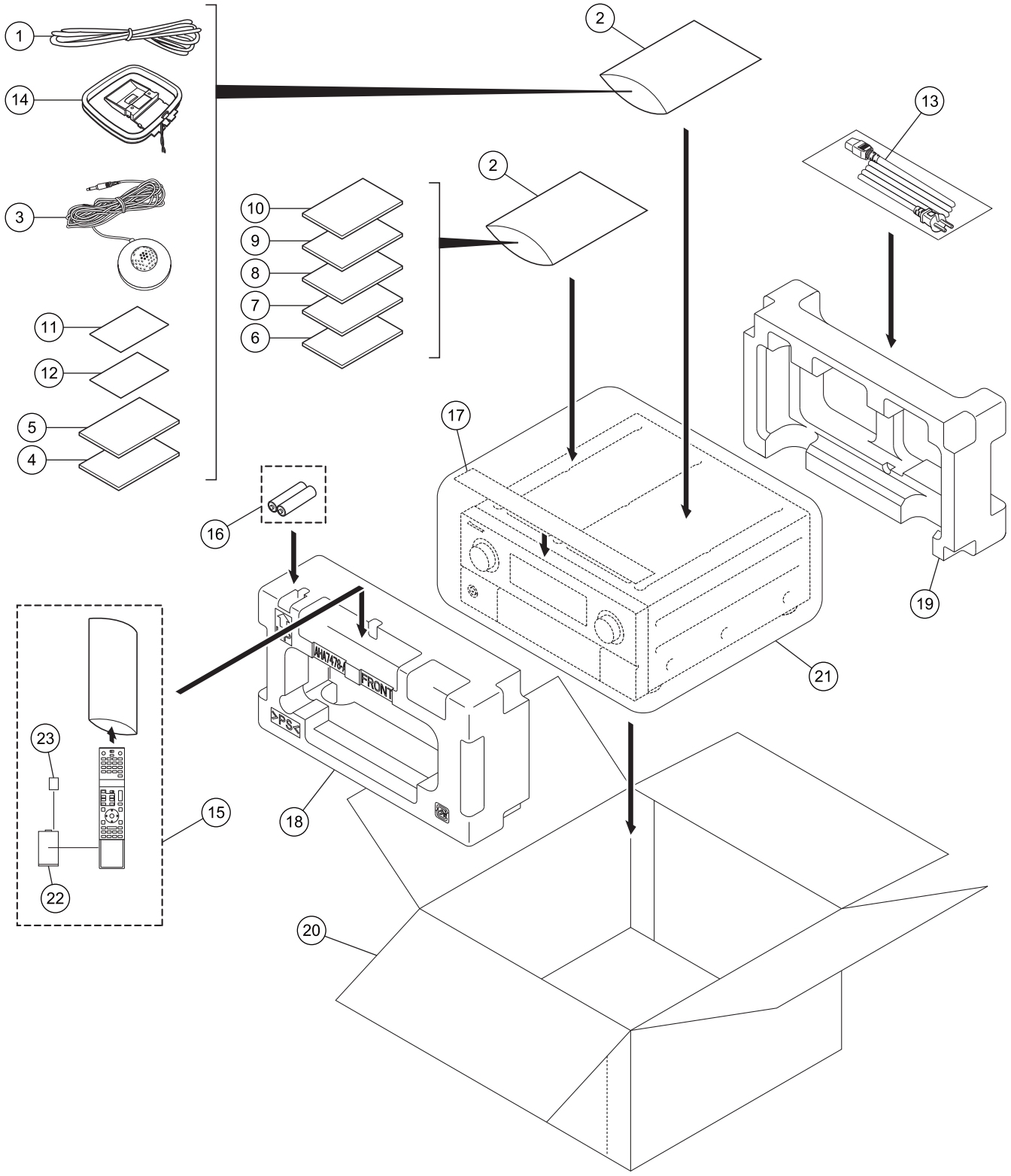


Note: Please restore the Network IP settings of the customer's unit after the update is completed.

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

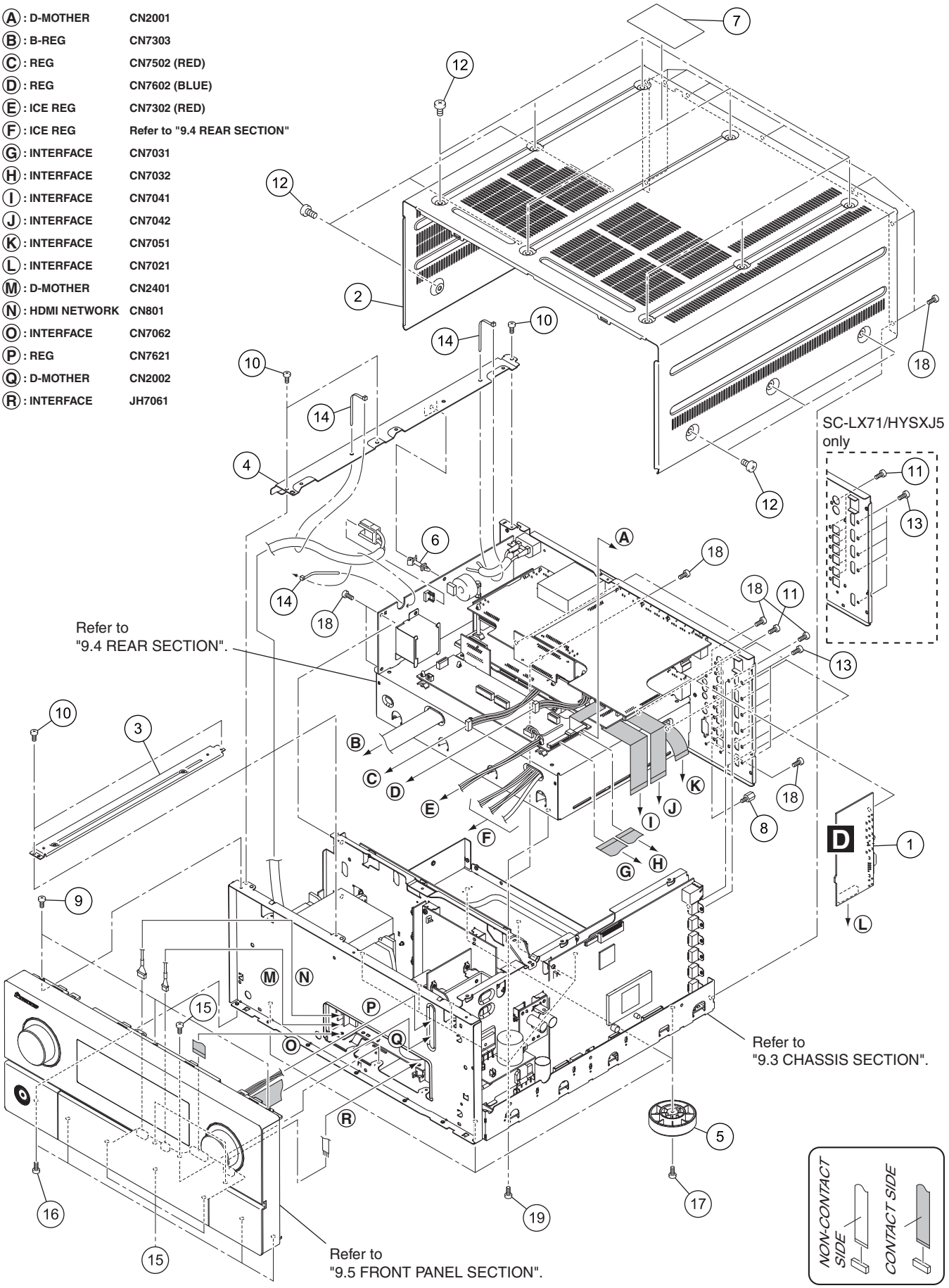


PACKING SECTION SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	FM Wire Antenna	ADH7030
NSP	2	Polyethylene Bag	AHG7117
	3	Setup Microphone (for Auto MCACC setup)	APM7008
	4	Operating Instructions (English)	ARB7393
	5	Operating Instructions (French)	ARC7799
	6	Operating Instructions (German)	ARC7800
	7	Operating Instructions (Italian)	ARC7801
	8	Operating Instructions (Spanish)	ARC7802
	9	Operating Instructions (Dutch)	ARC7803
	10	Operating Instructions (Russian)	ARC7804
	11	Caution Sheet SP,E	ARM7056
NSP	12	Warranty Card EU	ARY7128
⚠	13	AC Power Cord	ADG7062
	14	AM Loop Antenna	ATB7013
	15	Remote Control Unit	AXD7521
NSP	16	Dry Cell Battery AA/LR6	XEX3004
	17	Protection Sheet LX	AEH7030
	18	Front Pad 81	AHA7478
	19	Rear Pad 81	AHA7479
	20	Packing Case (SC-LX81)	AHD8603
	20	Packing Case (SC-LX71)	AHD8604
	21	Packing Sheet	RHC1023
	22	Battery Cover	AZN8031
	23	Label(WEEE)	ARW7322

9.2 EXTERIOR SECTION

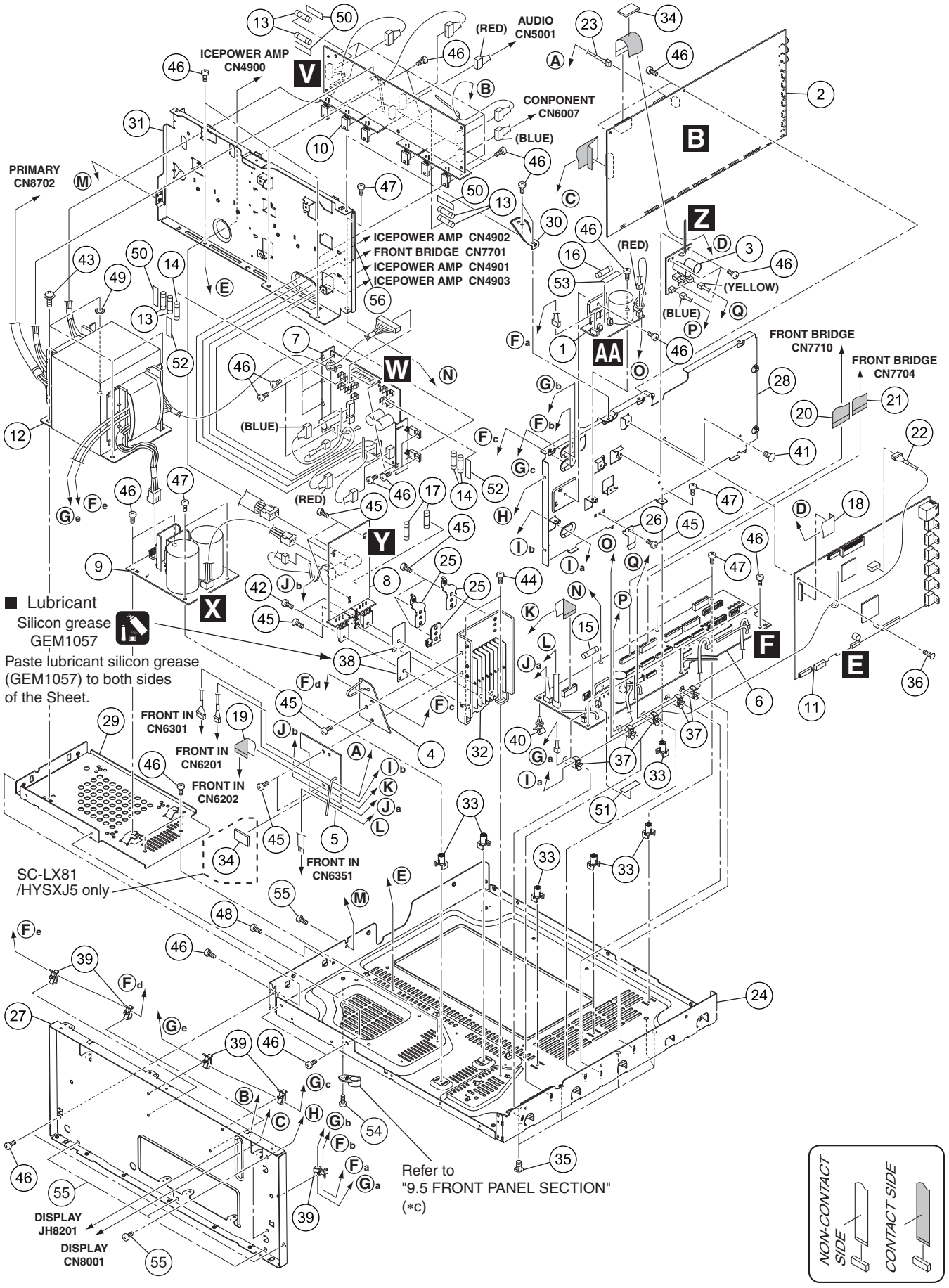
Ⓐ	: D-MOTHER	CN2001
Ⓑ	: B-REG	CN7303
Ⓒ	: REG	CN7502 (RED)
Ⓓ	: REG	CN7602 (BLUE)
Ⓔ	: ICE REG	CN7302 (RED)
Ⓕ	: ICE REG	Refer to "9.4 REAR SECTION"
Ⓖ	: INTERFACE	CN7031
Ⓗ	: INTERFACE	CN7032
Ⓘ	: INTERFACE	CN7041
Ⓙ	: INTERFACE	CN7042
Ⓚ	: INTERFACE	CN7051
Ⓛ	: INTERFACE	CN7021
Ⓜ	: D-MOTHER	CN2401
Ⓝ	: HDMI NETWORK	CN801
Ⓞ	: INTERFACE	CN7062
Ⓟ	: REG	CN7621
Ⓠ	: D-MOTHER	CN2002
Ⓡ	: INTERFACE	JH7061



EXTERIOR SECTION SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	232C & CONTROL ASSY	AWX9209
	2	Bonnet 81B	AZN8036
	3	Center Beam V1	ANG7482
	4	Left Beam 81	ANG7624
	5	Insulator Assembly	DXA1904
	6	PCB Holder	PNW2562
	7	Lisence Label V5S	ARW7372
	8	Screw 2.85 x 7	ABA7078
	9	Screw	BBT30P080FCC
	10	Screw	BBZ30P080FCC
	11	Screw	BBZ30P080FTB
	12	Screw	BCZ40P060FTB
	13	Screw	BMZ30P040FTB
NSP	14	Binder (BK-1)	ZCA-BK1
	15	Screw	BBZ30P060FCC
	16	Screw	ABA1193
	17	Screw	ABZ30P080FTC
	18	Screw	ABA1011
	19	Screw	IBZ30P080FCC

9.3 CHASSIS SECTION



EXTERIOR SECTION SECTION PARTS LIST

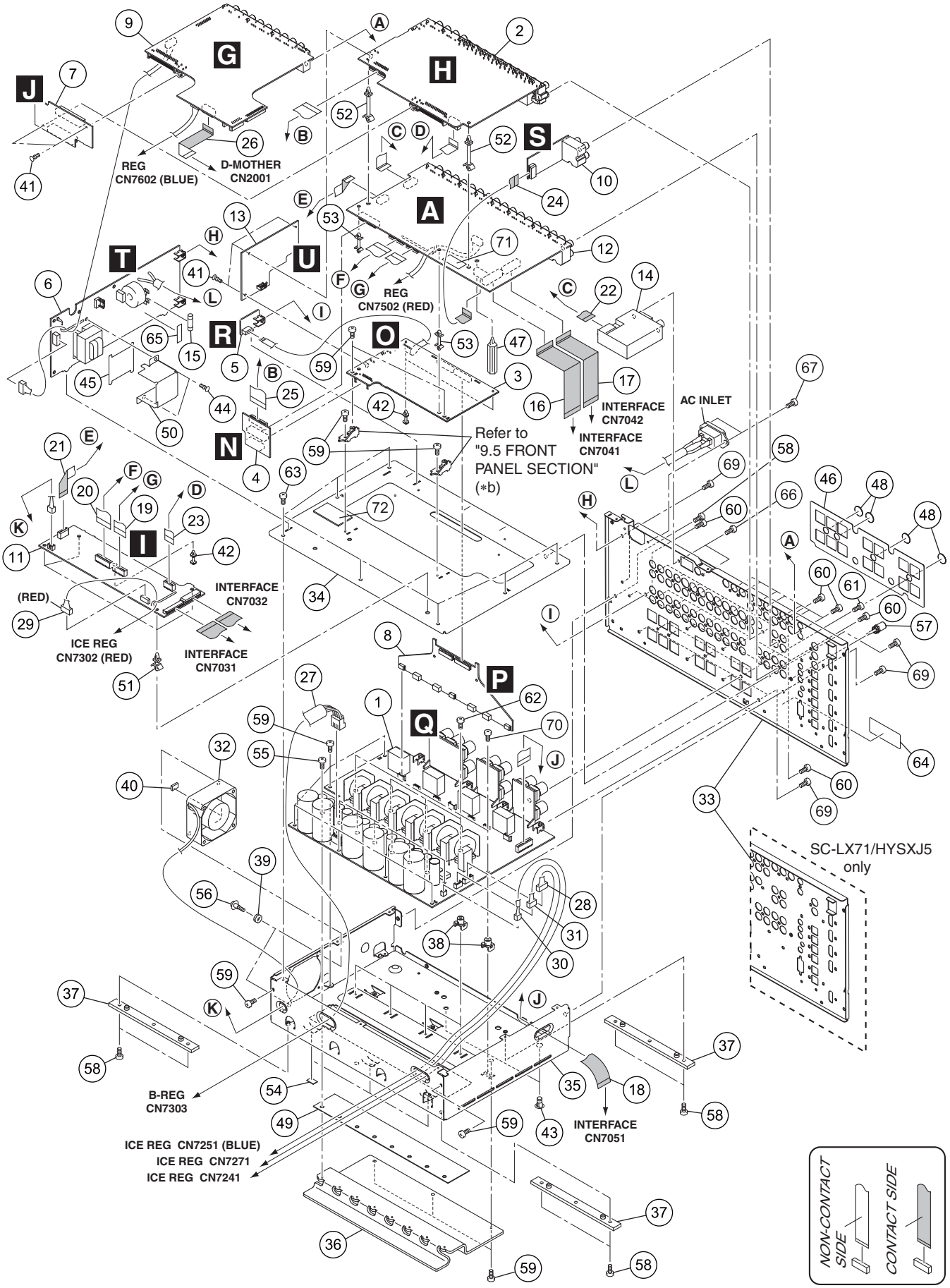
Mark	No.	Description	Part No.
⚠	1	HDMI RECT ASSY	AWX9156
	2	D-MOTHER ASSY	See Contrast table (2)
	3	DCDC ASSY	AWX9138
	4	H GUARD2 ASSY	AWX9147
	5	H GUARD1 ASSY	AWX9174
	6	INTERFACE ASSY	AWX9148
	7	ICE REG ASSY	AWX9149
	8	B REG ASSY	AWX9150
	9	B DIODE ASSY	AWX9171
	10	REG ASSY	AWX9152
	11	HDMI NETWORK ASSY	See Contrast table (2)
⚠	12	Power Transformer (T1501)	ATS7423
⚠	13	Fuse (FU13,FU14,FU21,FU22,FU31,FU32: 800mA)	REK1021
⚠	14	Fuse (FU11,FU12,FU15: 1A)	REK1022
⚠	15	Fuse (FU51: 1.6A)	REK1024
⚠	16	Fuse (FU41: 3.15A)	REK1027
⚠	17	Fuse (FU61,FU62: 10A)	REK1154
	18	22FFC/60V (J10)	ADD7655
	19	15FFC/60V (J13)	ADD7660
	20	27P FFC/60V (J15)	ADD7662
	21	19P FFC/60V (J16)	ADD7663
	22	5P Shielded Cable (J19)	ADX7621
	23	Housing Assy (Y21)	ADX7623
NSP	24	Under Base 81	ANA7210
	25	PCB Angle 45	ANG7406
NSP	26	Transistor Holder	ANG7543
NSP	27	Panel Stay 81	ANG7642
	28	DSP Shieled 81	ANG7622
	29	Trans Flame 81	ANG7623
	30	Support Plate 81	ANG7625
	31	REG Assy Plate 81	ANG7627
	32	REG Heatsink 81	ANH7204
	33	PCB Mold	AMR2533
	34	FFC Cushion	AEB7404
	35	PCB Holder	AEC7057
	36	Push Rivet	AEC7071
	37	Reuse Clamp	AEC7621
	38	Sheet	AEE7034
	39	Side Clamp	DEC2007
	40	Locking Card Spacer	PNW2917
NSP	41	PC Support	VEC1749
	42	Screw	ABA1052
	43	Screw 4 x 12	ABA7109
	44	Screw 3 x 10	ABA7134
	45	Screw	BBZ30P060FTC
	46	Screw	BBZ30P080FCC
	47	Screw	BBZ30P180FCC
	48	Screw	IBP30P090FCC
	49	Washer	WH40FNI
NSP	50	Fuse Card	AAX2367
NSP	51	Fuse Card	AAX2377
NSP	52	Fuse Card	AAX7293
NSP	53	Fuse Card	AAX7493
	54	Screw	ABZ30P080FTC
	55	Screw	ABA1011
	56	ACETATE TAPE 10X60	AEH7029

(2) CONTRAST TABLE

SC-LX81/HYSXJ5 and SC-LX71/HYSXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Mark	No.
	2	D-MOTHER ASSY	AWX9196	AWX9202
	11	HDMI NETWORK ASSY	AWX9234	AWX9235

9.4 REAR PANEL SECTION



EXTERIOR SECTION SECTION PARTS LIST

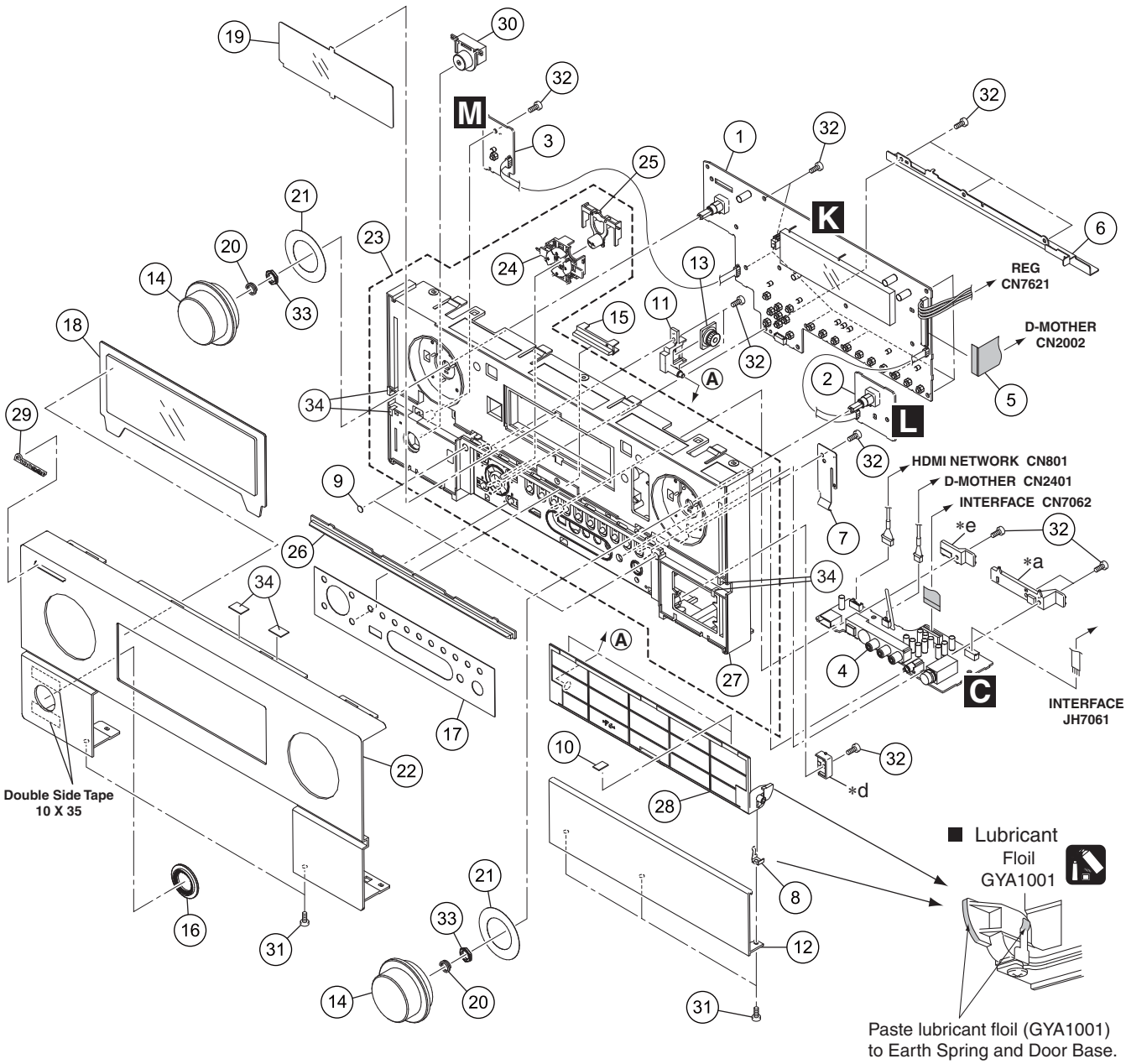
Mark	No.	Description	Part No.
	1	ICEPOWER AMP Assy	AWH7017
	2	COMPOSITE S ASSY	AWX9144
	3	ICE BUFFER ASSY	AWX9145
	4	PRE BRIDGE ASSY	AWX9146
	5	ICE SHIELD ASSY	AWX9173
⚠	6	PRIMARY ASSY	AWX9166
	7	V-BRIDGE ASSY	AWX9161
	8	ICE INTERFACE ASSY	AWX9137
	9	COMPONENT ASSY	See Contrast table (2)
	10	ZOUT ASSY	AWX9143
	11	FRONT BRIDGE ASSY	AWX9155
	12	AUDIO ASSY	AWX9206
	13	PRIMARY GUARD ASSY	AWX9172
	14	FM/AM TUNER UNIT	AXX7248
⚠	15	FUSE (FU1: 5A)	REK1029
	16	21P FFC/60V (J2)	ADD7645
	17	19P FFC/60V (J3)	ADD7646
	18	17P FFC/60V (J4)	ADD7647
	19	13P FFC/60V (J5)	ADD7648
	20	17P FFC/60V (J6)	ADD7649
	21	9P FFC/60V (J7)	ADD7650
	22	11P FFC/60V (J8)	ADD7651
	23	9P FFC/60V (J9)	ADD7652
	24	11FFC/60V (J11)	ADD7658
	25	19FFC/60V (J12)	ADD7659
	26	16FFC/60V (J14)	ADD7661
	27	4P Housing Assy (Y20)	ADX7622
	28	6P Housing Assy (Y22)	ADX7655
	29	6P Housing Assy (Y23)	ADX7656
	30	2P Housing Assy (Y24)	ADX7657
	31	4P Housing Assy (Y25)	ADX7677
⚠	32	DC Fan Motor	AXM7040
	33	Rear Panel	See Contrast table (2)
NSP	34	ICE COVER 81	ANF7047
NSP	35	ICE BOX 81	ANF7052
NSP	36	Heatsink 81	ANH7202
	37	Insulator ICE	AMR7523
	38	PCB Mold	AMR7536
	39	Damper Bushing	AEB7396
	40	Cushion 5 x 8	AEB7397
	41	Push Rivet	AEC7071
	42	PCB Spacer	AEC7080
	43	Card Spacer	AEC7133
	44	Nylon Rivet	AEC7406
	45	Primary Barrier	AEC7569
	46	SP Sheet 81	AEC7599
	47	Card Spacer 18K	AEC7613
	48	Cushion Circle 14B	AED7081
	49	Radiation Sheet A	AEE7064
	50	Shield Case	AMR7526
NSP	51	PCB Holder	PNW2100
NSP	52	Spacer 40	PNW2488
NSP	53	PCB Holder	REC1220
	54	Cushion 11 x 7	AED7092
	55	Screw 3 x 10	ABA7134
	56	Screw	ABA7146
	57	Terminal Screw	AKE-031-0
	58	Screw	BBZ30P060FCC
	59	Screw	BBZ30P080FCC
	60	Screw	BBZ30P080FTB
	61	Screw	BBZ30P100FCC
	62	Screw	BBZ30P140FCC
	63	Screw	AMZ30P060FTC
NSP	64	Label	VRW1629
NSP	65	Fuse Card	AAX7098
	66	Screw	ABA1207
	67	Screw	CBZ30P080FTB
	68	••••••	
	69	Screw	ABA1011
	70	Screw	IBZ30P150FCC
	71	ACETATE TAPE 10X35	AEH7032
	72	CUSHION T3 20X35	AEB7406

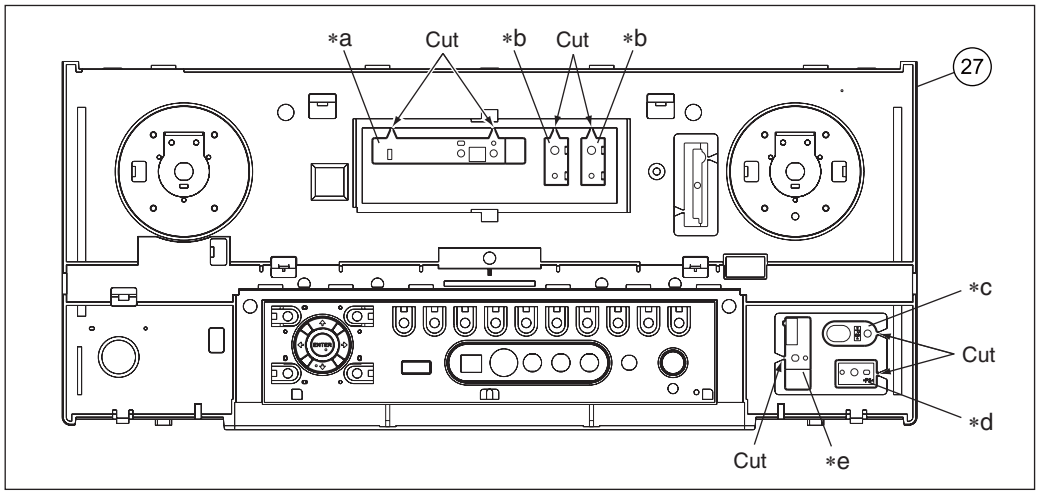
(2) CONTRAST TABLE

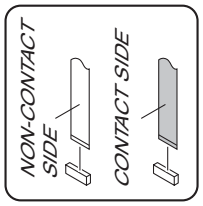
SC-LX81/HYSXJ5 and SC-LX71/HYSXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Mark	No.
	9	COMPONENT ASSY	AWX9141	AWX9211
	33	Rear Panel	ANC8526	ANC8533

9.5 FRONT PANEL SECTION







EXTERIOR SECTION SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	DISPLAY ASSY	See Contrast table (2)
	2	VOL ASSY	AWX9159
	3	POWER SW ASSY	AWX9160
	4	FRONT IN ASSY	AWX9142
	5	29FFC/60V (J18)	ADD7665
	6	Panel Beam 81	ANG7620
	7	Door Spring	ABK7061
	8	Earth Spring 81	ABK7067
	9	Cushion Circle 6B	AED7083
	10	Cushion 11 x 7	AED7092
	11	Door Shaft 60	AMR7531
	12	Door Panel 81HY	ANB7490
	13	Damper Assy	AXA7156
	14	Vol.Knob B	AAA7052
	15	IB Lens V5SEL	AAK8430
	16	Power Ring LX	AAK8427
	17	Door Sheet 81HY	AAK8439
	18	Display Panel 81HY	AAK8442
	19	Filter 81HY	AAK8459
	20	Vol Ring 60	ABH7249
	21	Knob Spacer 74	AEC7558
	22	Front Panel	See Contrast table (2)
	23	P Base 81HY Assy	AZN8038
NSP	24	+-Button 81	AAD7788
NSP	25	Enter Button 81	AAD7789
	26	Center Lens V5SH	AAK8428
NSP	27	Panel Base 81HY	AMB7988
	28	Door Base 81	AMR7540
	29	Pioneer Badge	VAM1158
	30	STANDBY BTN LXHY Assy	AAD7773
	31	Screw	BBZ30P080FTB
	32	Screw	BBZ30P100FNI
	33	Nut	NK90FTC
NSP	34	TAPE	PNM1249

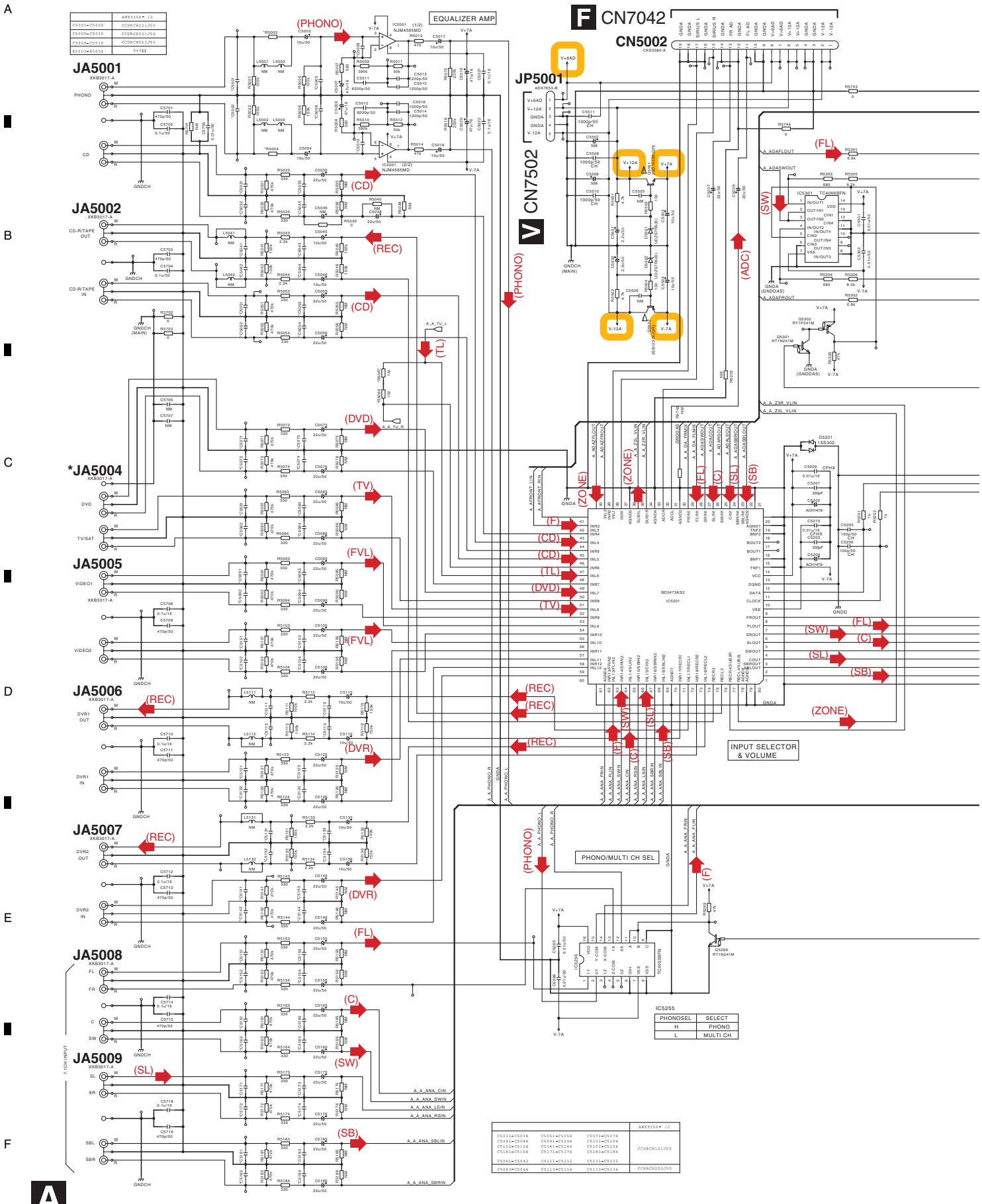
(2) CONTRAST TABLE

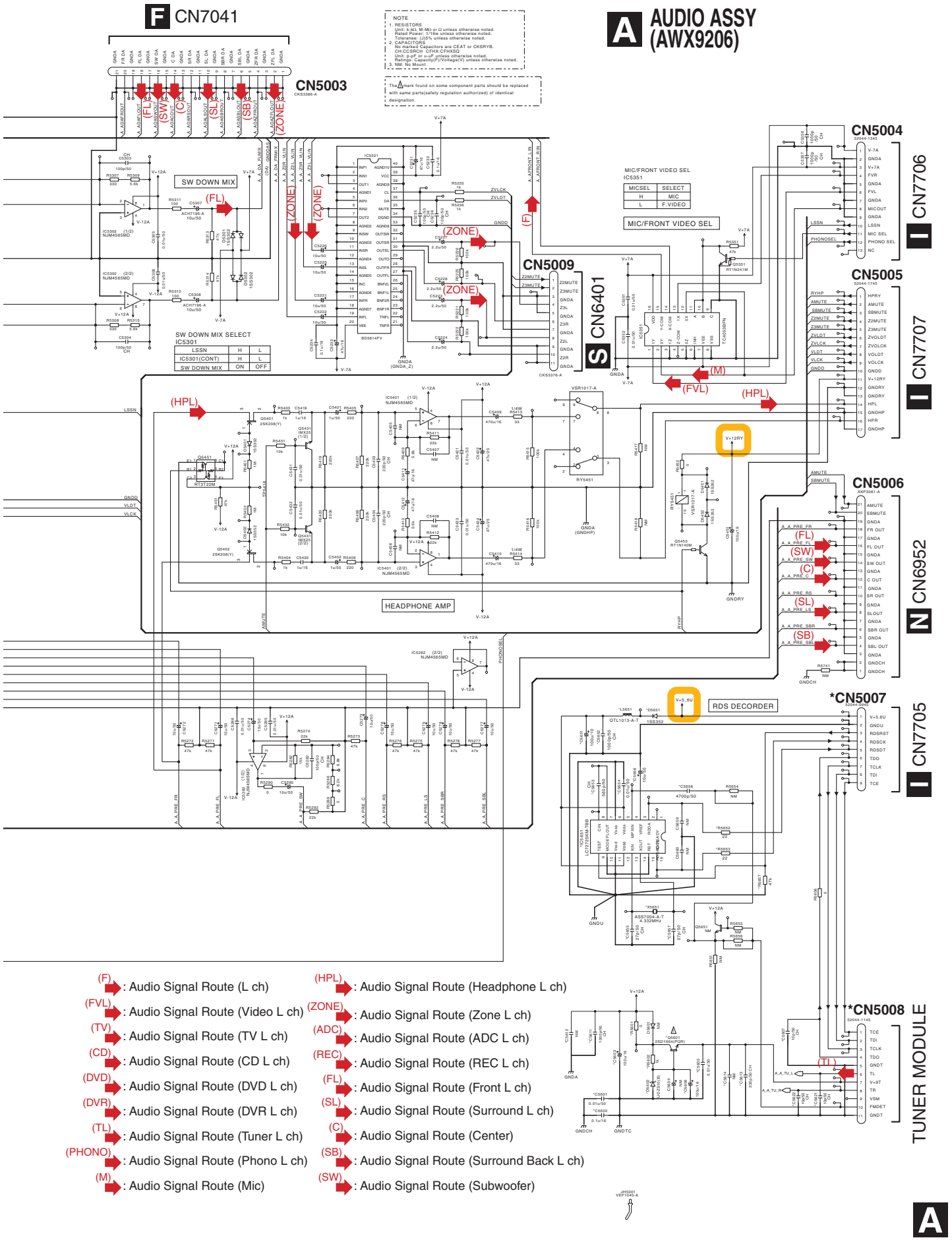
SC-LX81/HYSXJ5 and SC-LX71/HYSXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Mark	No.
	1	DISPLAY ASSY	AWX9158	AWX9238
	22	Front Panel	ANB7483	ANB7487

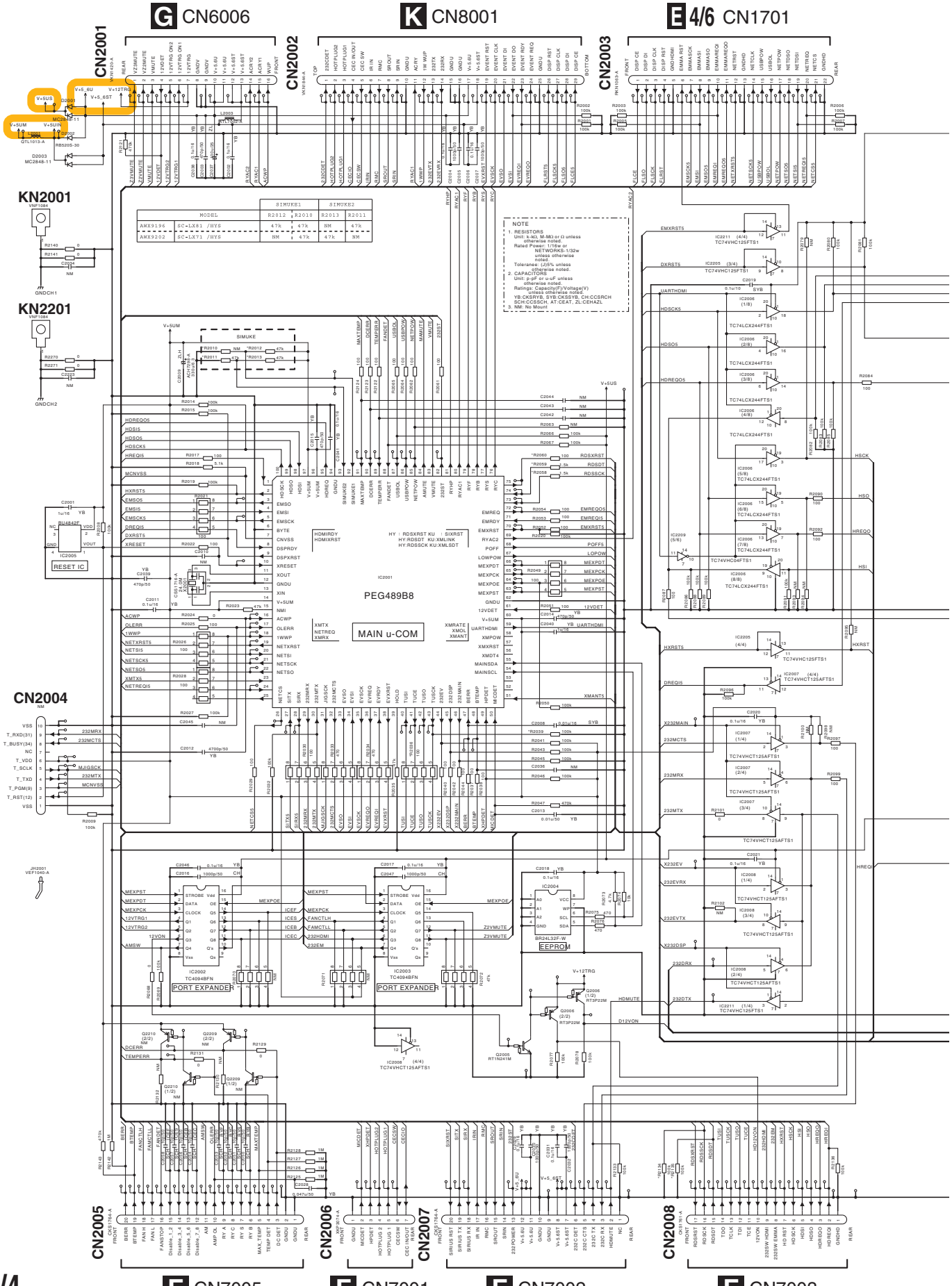
10. SCHEMATIC DIAGRAM

10.1 AUDIO ASSY




F CN7041
CN5003
A AUDIO ASSY (AWX9206)
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
No marked Capacitors are CEAT or CKSRYB.
CH:CC5RCH 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.
CN5004
CN5005
CN5006
*CN5007
*CN5008
CN7706
CN7707
CN6952
CN7705
TUNER MODULE
CN6401
CN5009
SW DOWN MIX
SW DOWN MIX SELECT IC5301
MIC/FRONT VIDEO SEL IC5351
HEADPHONE AMP
RDS DECORDER
(F): Audio Signal Route (L ch)
(FVL): Audio Signal Route (Video L ch)
(TV): Audio Signal Route (TV L ch)
(CD): Audio Signal Route (CD L ch)
(DVD): Audio Signal Route (DVD L ch)
(DVR): Audio Signal Route (DVR L ch)
(TL): Audio Signal Route (Tuner L ch)
(PHONO): Audio Signal Route (Phono L ch)
(M): Audio Signal Route (Mic)
(HPL): Audio Signal Route (Headphone L ch)
(ZONE): Audio Signal Route (Zone L ch)
(ADC): Audio Signal Route (ADC L ch)
(REC): Audio Signal Route (REC L ch)
(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center)
(SB): Audio Signal Route (Surround Back L ch)
(SW): Audio Signal Route (Subwoofer)

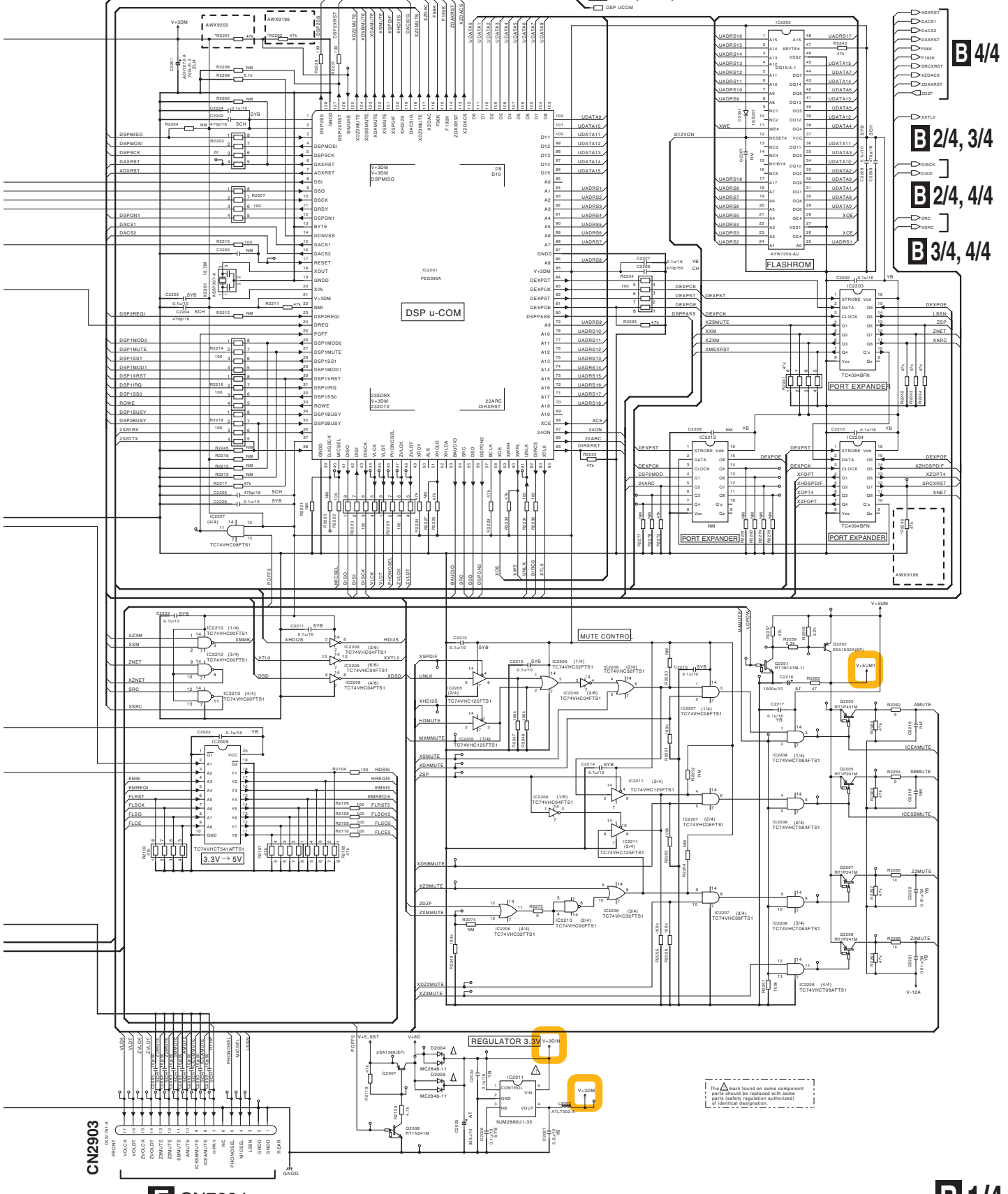
10.2 D-MOTHER ASSY (1/4)



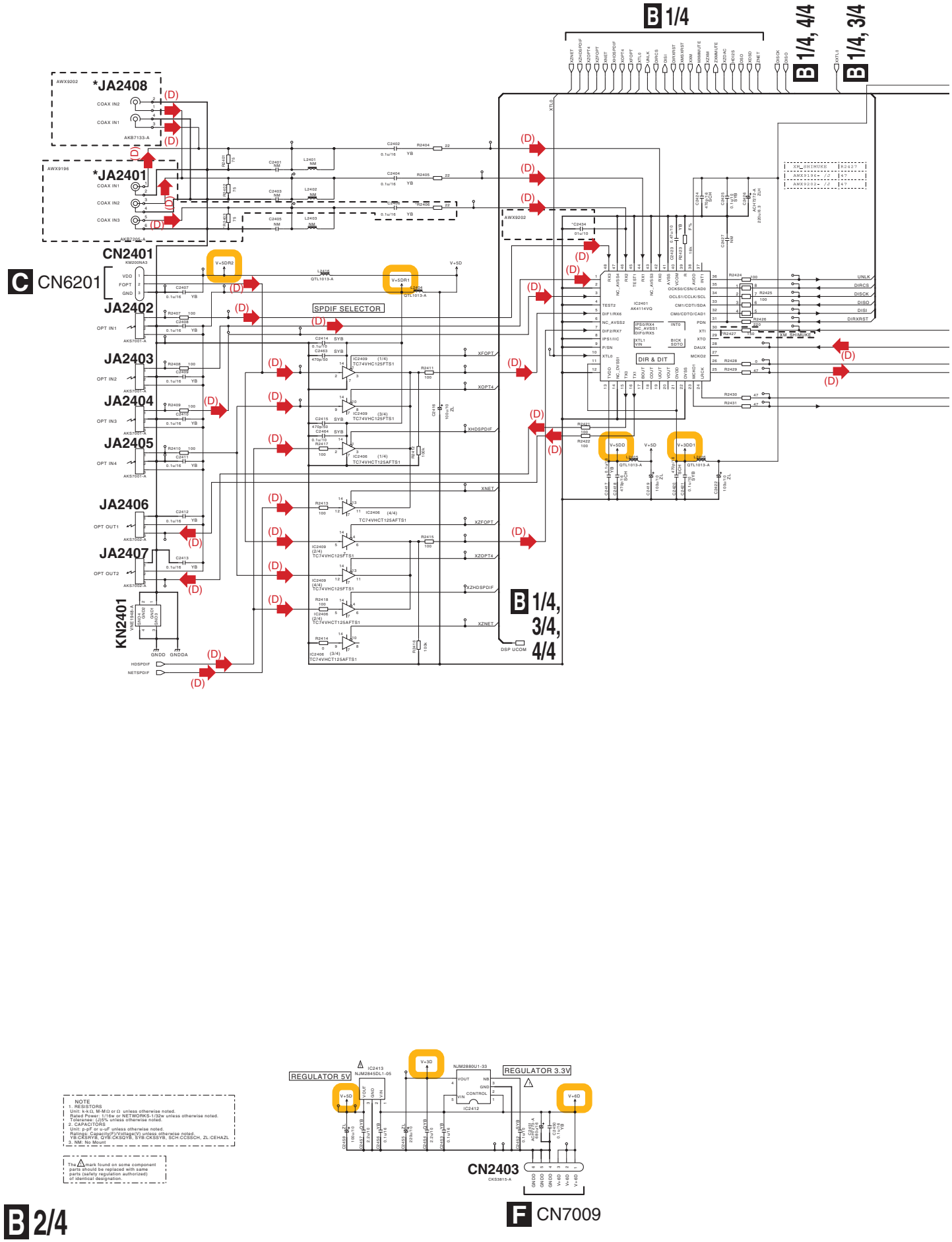
B 2/4 B 3/4

B 1/4 D-MOTHER ASSY (SC-LX81 : AWX9196) (SC-LX71 : AWX9202)

B 2/4, 3/4, 4/4



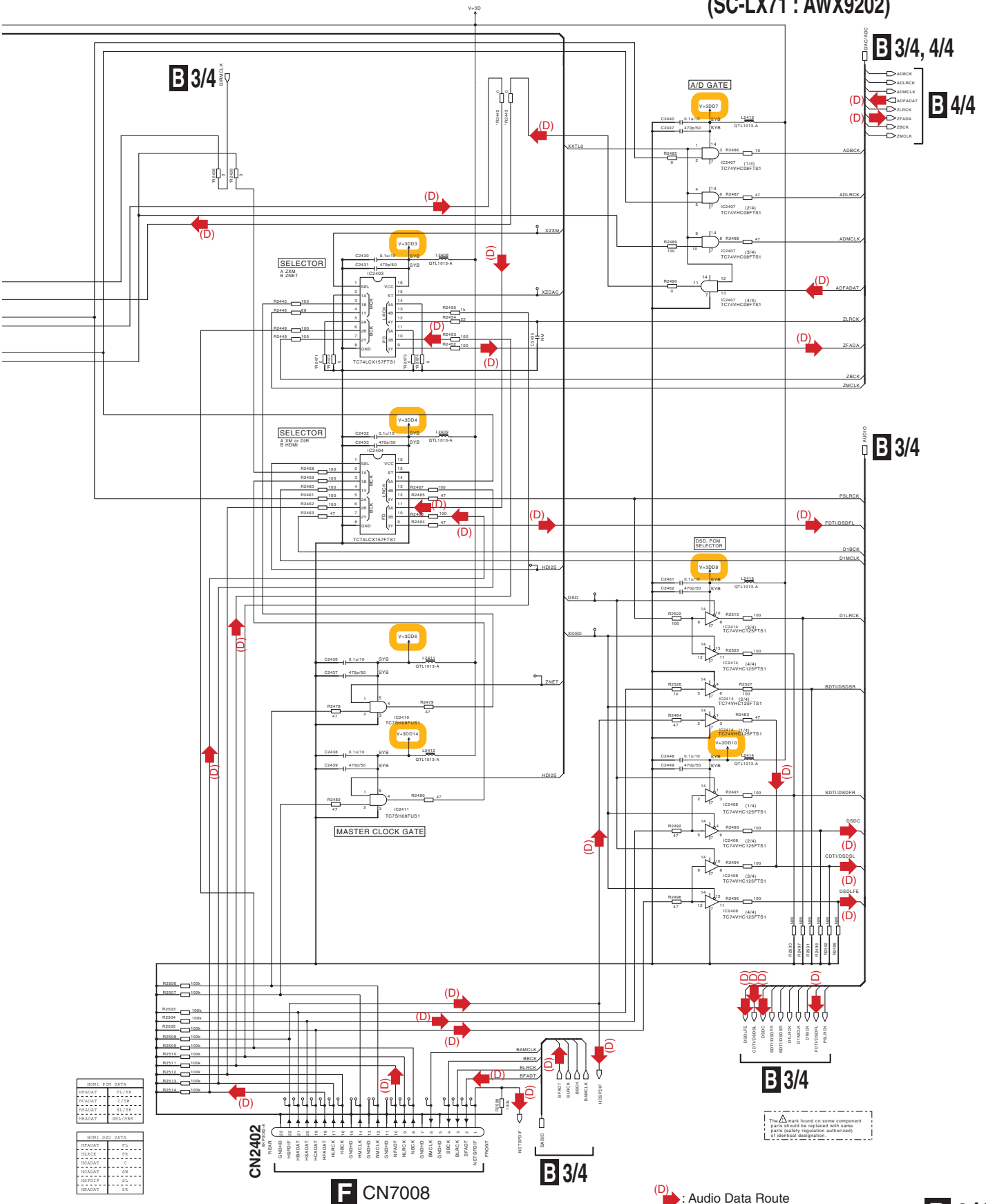
10.3 D-MOTHER ASSY (2/4)



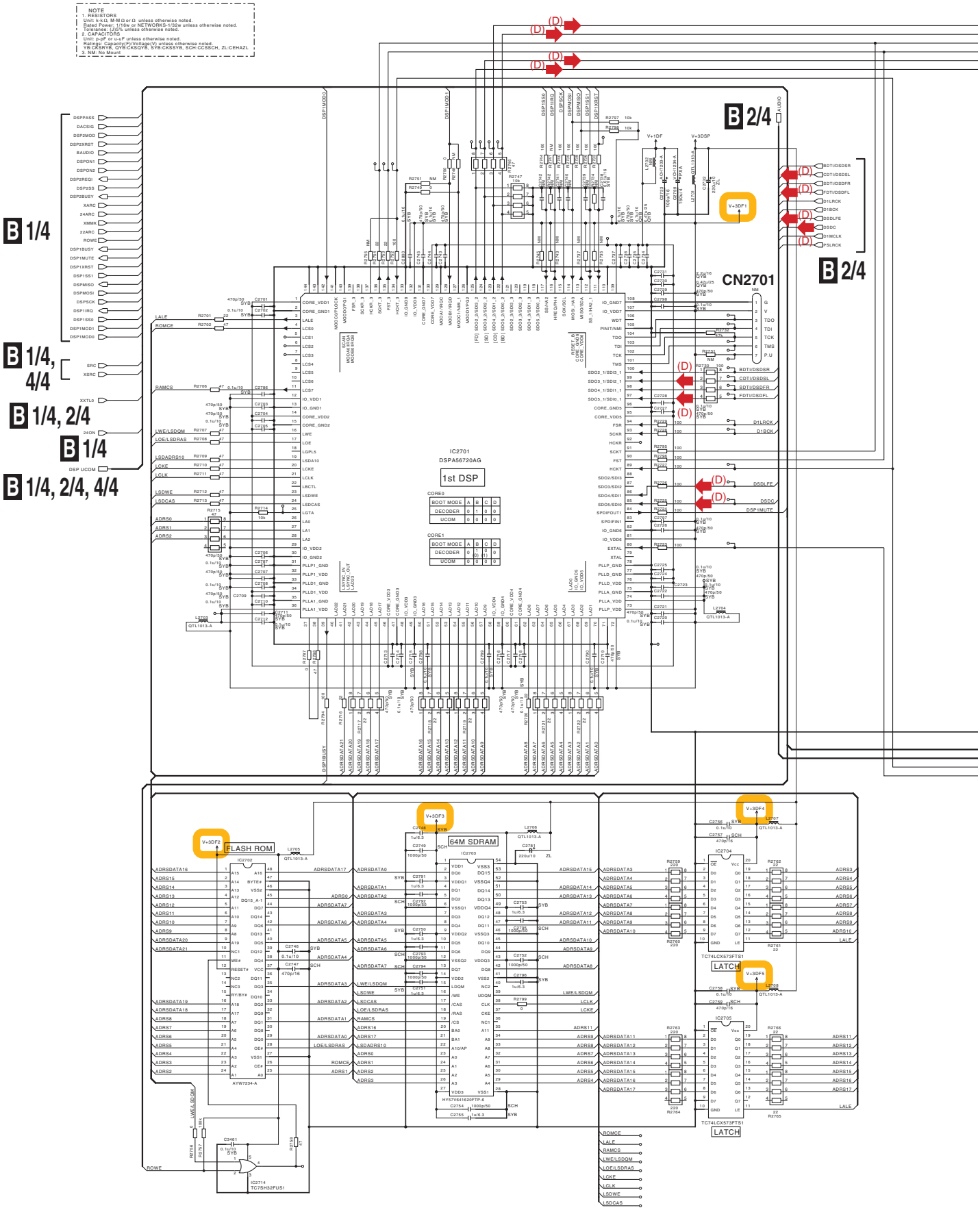
NOTE
1. RESISTORS
Unit: k-k Ω, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w or NETWORKS-1/32w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, GYB:CKSQYB, SYB:CKSSYB, SCH:CCSSCH, ZL:CEHAZL
3. NM: No Mount

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

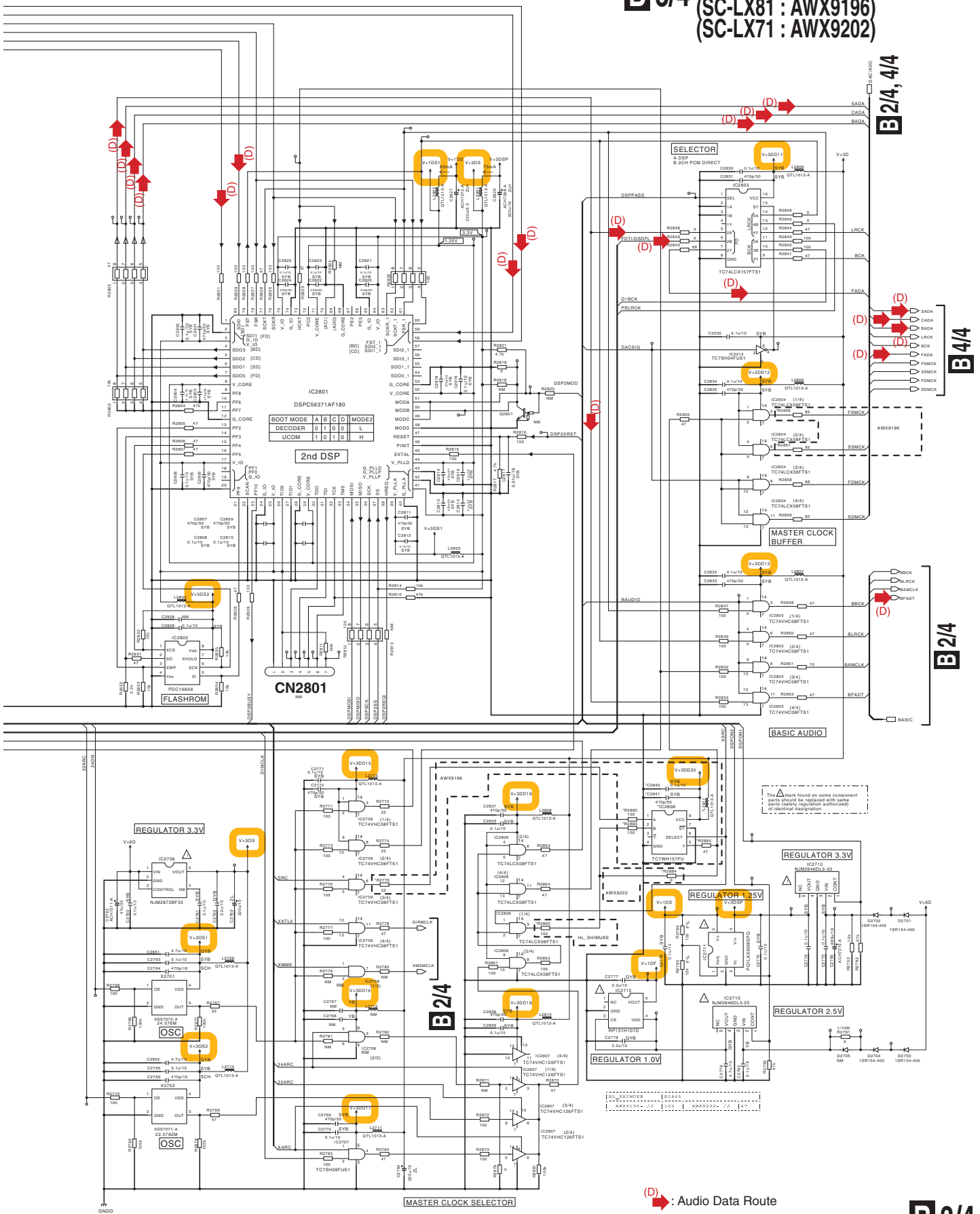
B 2/4 D-MOTHER ASSY (SC-LX81 : AWX9196) (SC-LX71 : AWX9202)



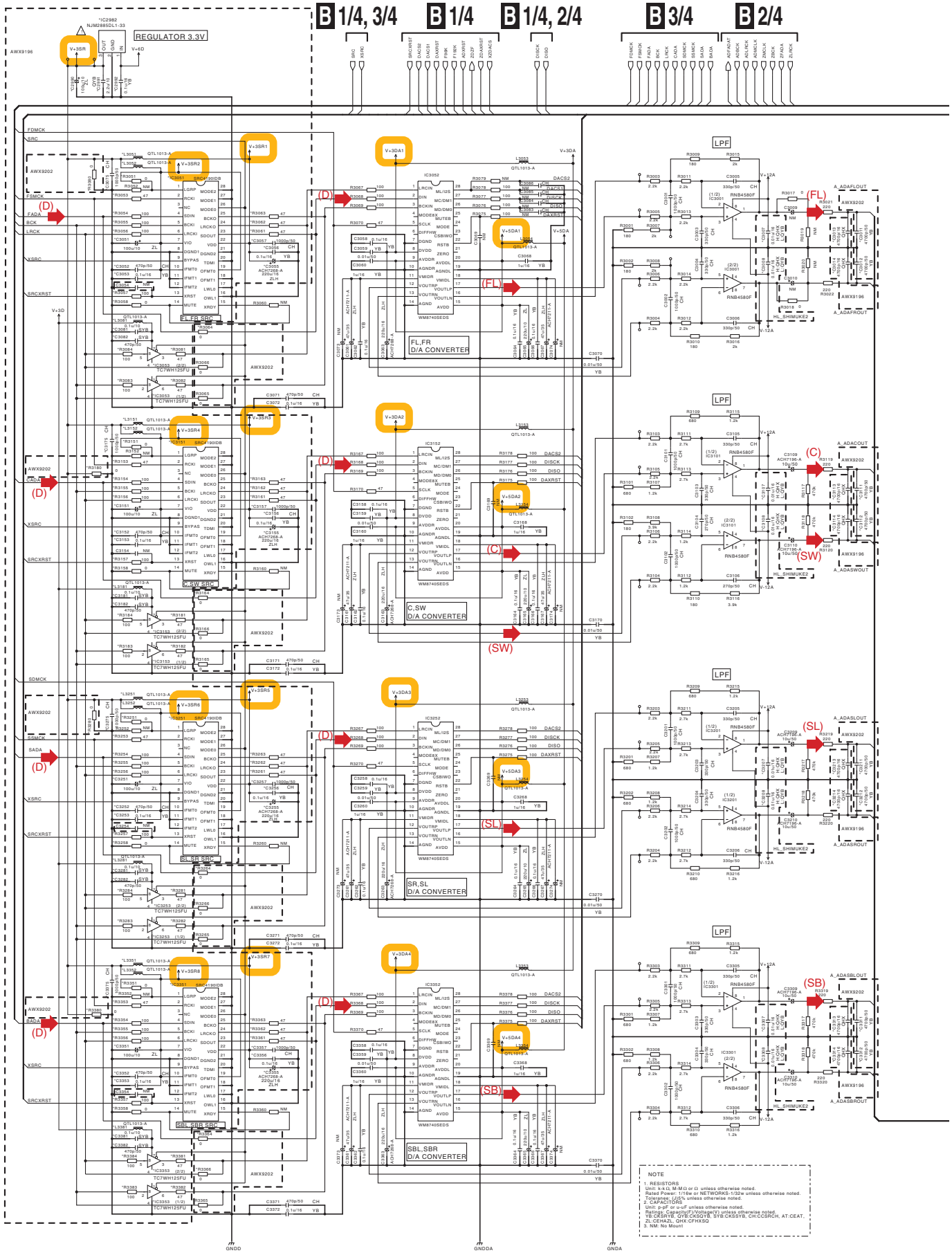
10.4 D-MOTHER ASSY (3/4)



B 3/4 D-MOTHER ASSY (SC-LX81 : AWX9196) (SC-LX71 : AWX9202)



10.5 D-MOTHER ASSY (4/4)



B 4/4 D-MOTHER ASSY (SC-LX81 : AWX9196) (SC-LX71 : AWX9202)

B 2/4, 3/4

DAC/ADC

DSP UCOM

B 1/4, 2/4, 3/4

HL_SHIMUKE2							
	C2911	C2912	C2915	C2916	C3007	C3008
AWX9196- 72	0.01u/16 QR9	0.01u/16 QR9	0.01u/16 QR9	0.01u/16 QR9	0.01u/16 QR9	0.01u/16 QR9
AWX9202- 72	0.01u/50 QY8	0.01u/50 QY8	0.01u/50 QY8	0.01u/50 QY8	0.01u/50 QY8	0.01u/50 QY8
	C2107	C2108	C2207	C2208	C2307	C2308
AWX9196- 72	0.01u/16 QR9	0.01u/16 QR9	0.01u/16 QR9	0.01u/16 QR9	0.01u/16 QR9	0.01u/16 QR9
AWX9202- 72	0.01u/50 QY8	0.01u/50 QY8	0.01u/50 QY8	0.01u/50 QY8	0.01u/50 QY8	0.01u/50 QY8

(D) : Audio Data Route

(ZONE) : Audio Signal Route (Zone L ch)

(ADC) : Audio Signal Route (ADC L ch)

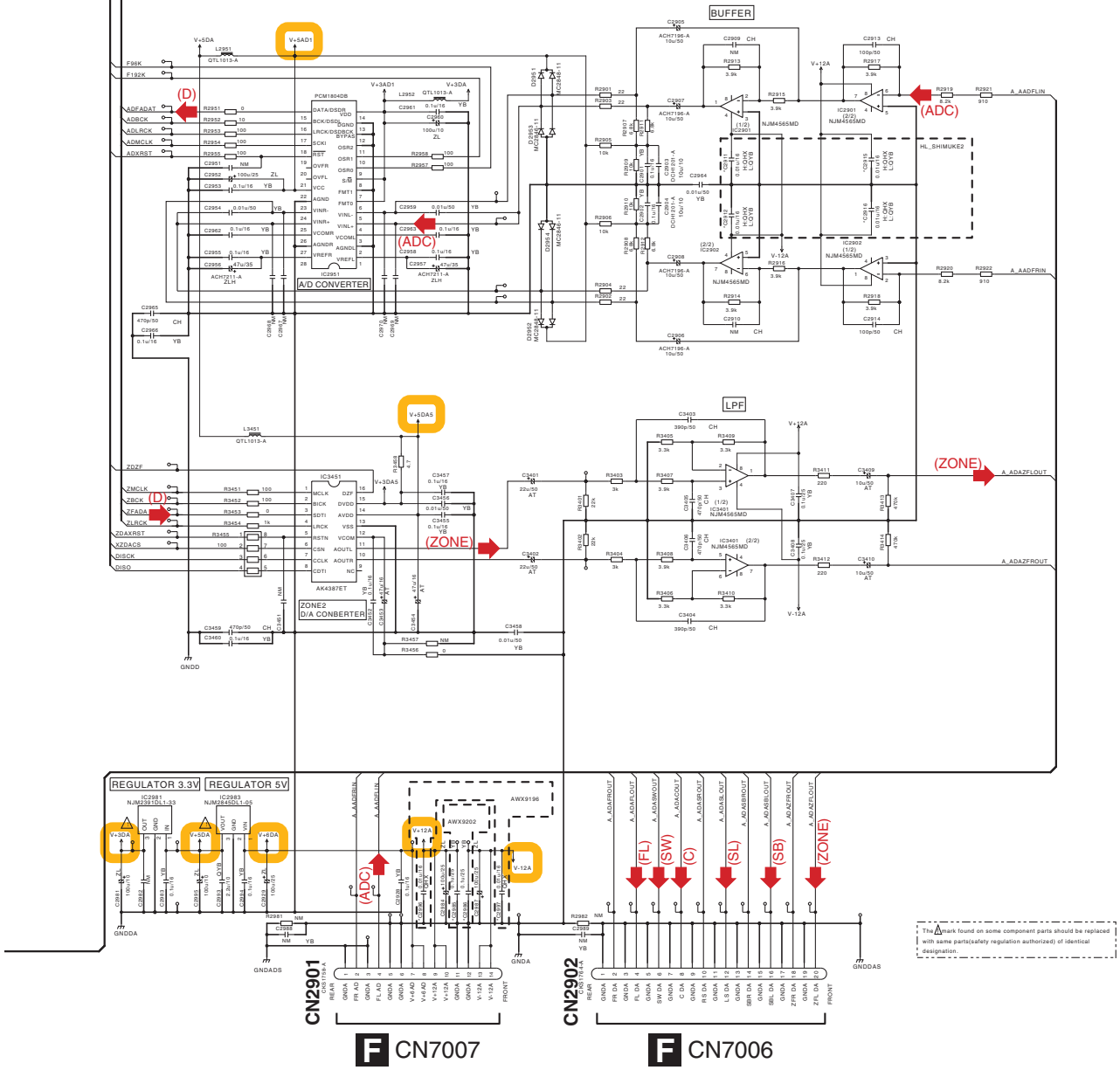
(FL) : Audio Signal Route (Front L ch)

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

(C) : Audio Signal Route (Center)

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

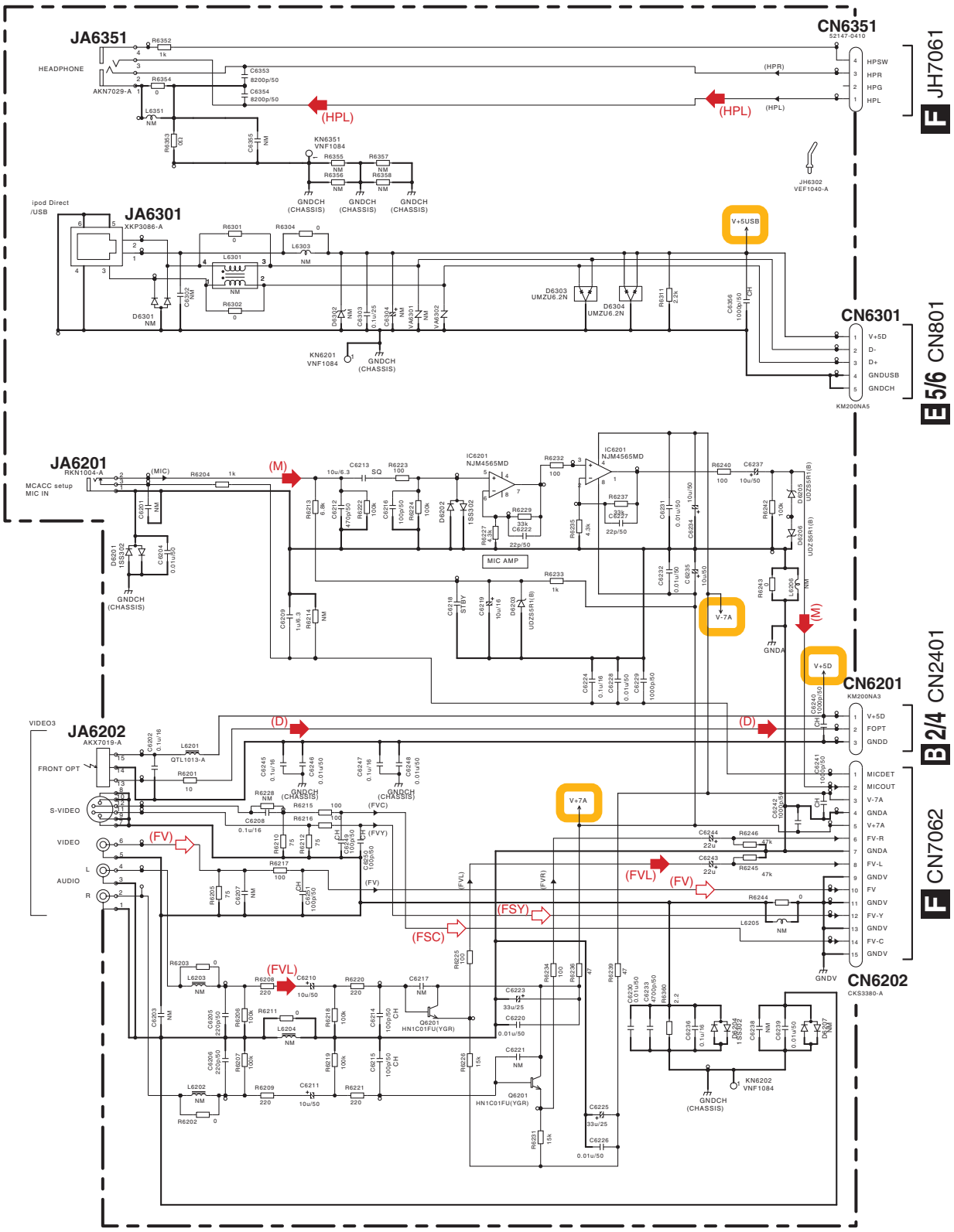
(SW) : Audio Signal Route (Subwoofer)



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

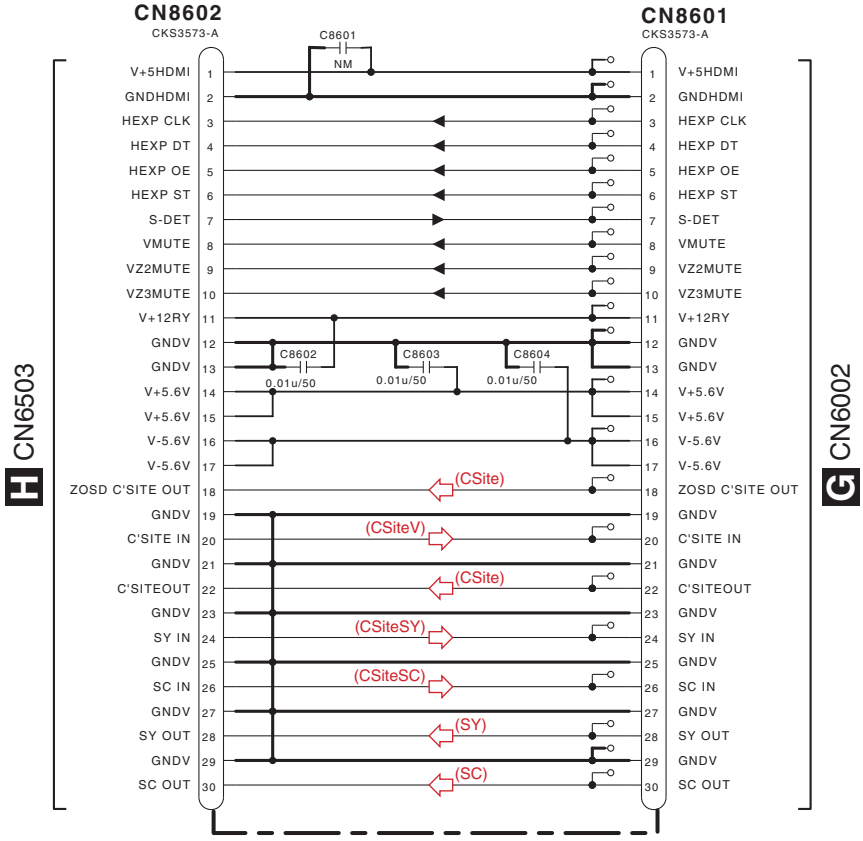
10.6 FRONT IN and V-BRIDGE ASSYS

C FRONT IN ASSY (AWX9142)



NOTE
1. RESISTORS
Unit: k-k Ω, M-M Ω 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
NO MARKED : CKSRYB
3. NM: No Mount

J V-BRIDGE ASSY (AWX9161)

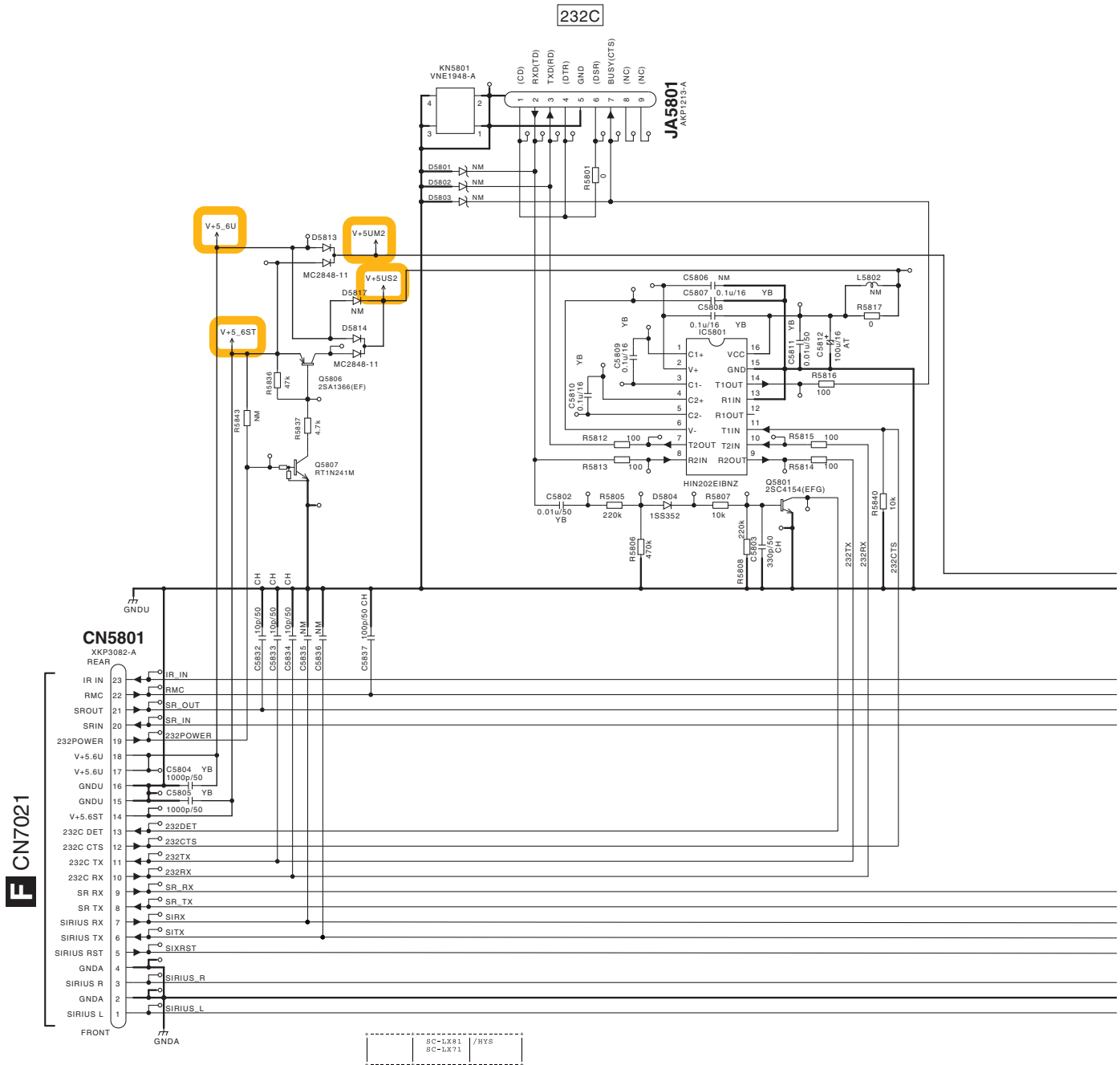


NOTE
1. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
2. NM: No Mount

(FSC): S-Video Signal Route (Front C)
(FSY): S-Video Signal Route (Front Y)
(FV): Video Signal Route (Video)
(D): Audio Data Route
(FVL): Audio Signal Route (Video L ch)
(M): Audio Signal Route (Mic)
(HPL): Audio Signal Route (Headphone L ch)

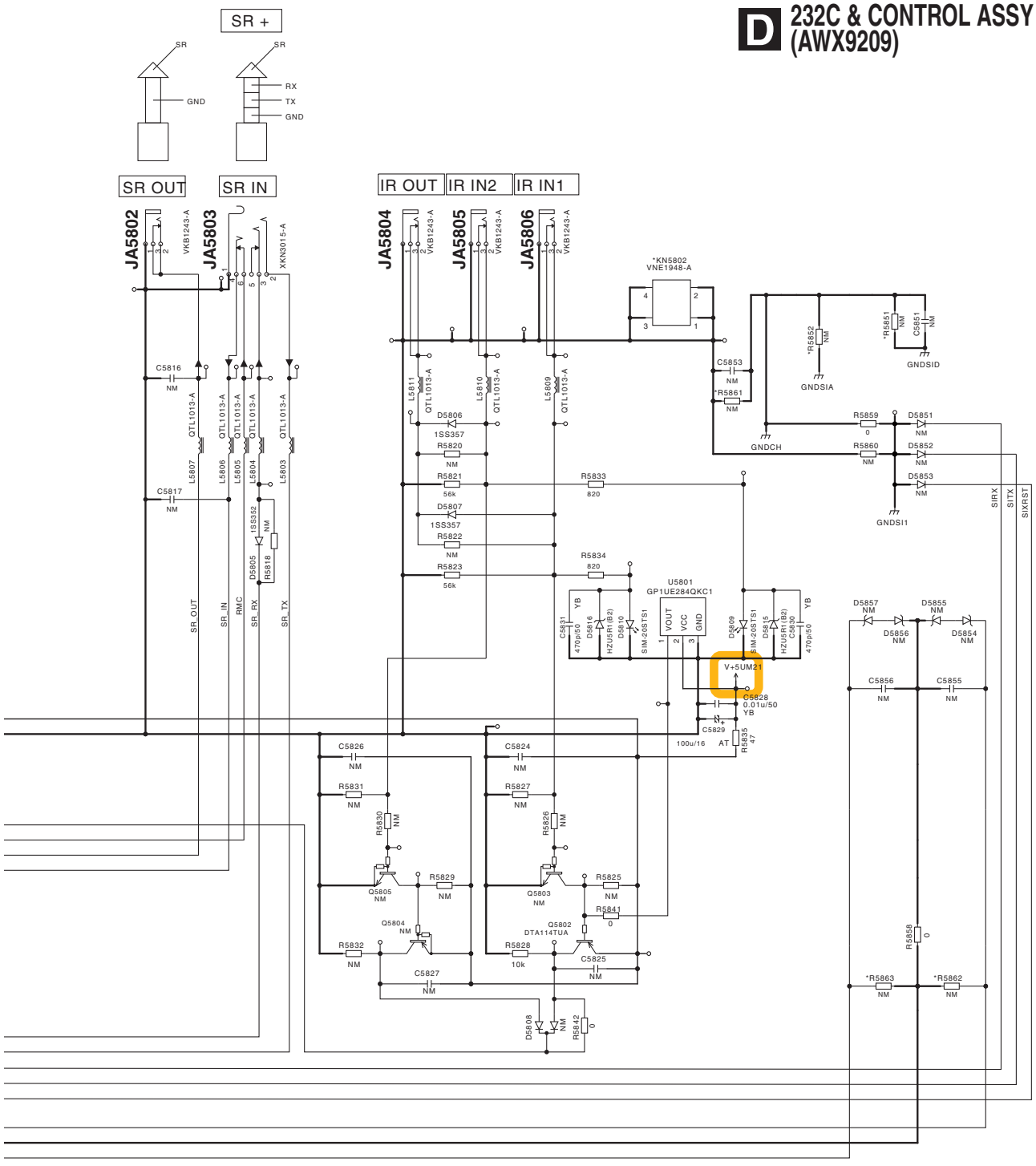
(SC): S-Video Signal Route (C)
(SY): S-Video Signal Route (Y)
(CSiteSC): Video Signal Route (Composite C)
(CSiteSY): Video Signal Route (Composite Y)
(CSiteV): Video Signal Route (Composite Video)
(CSite): Video Signal Route (Composite)

10.7 232C & CONTROL ASSY



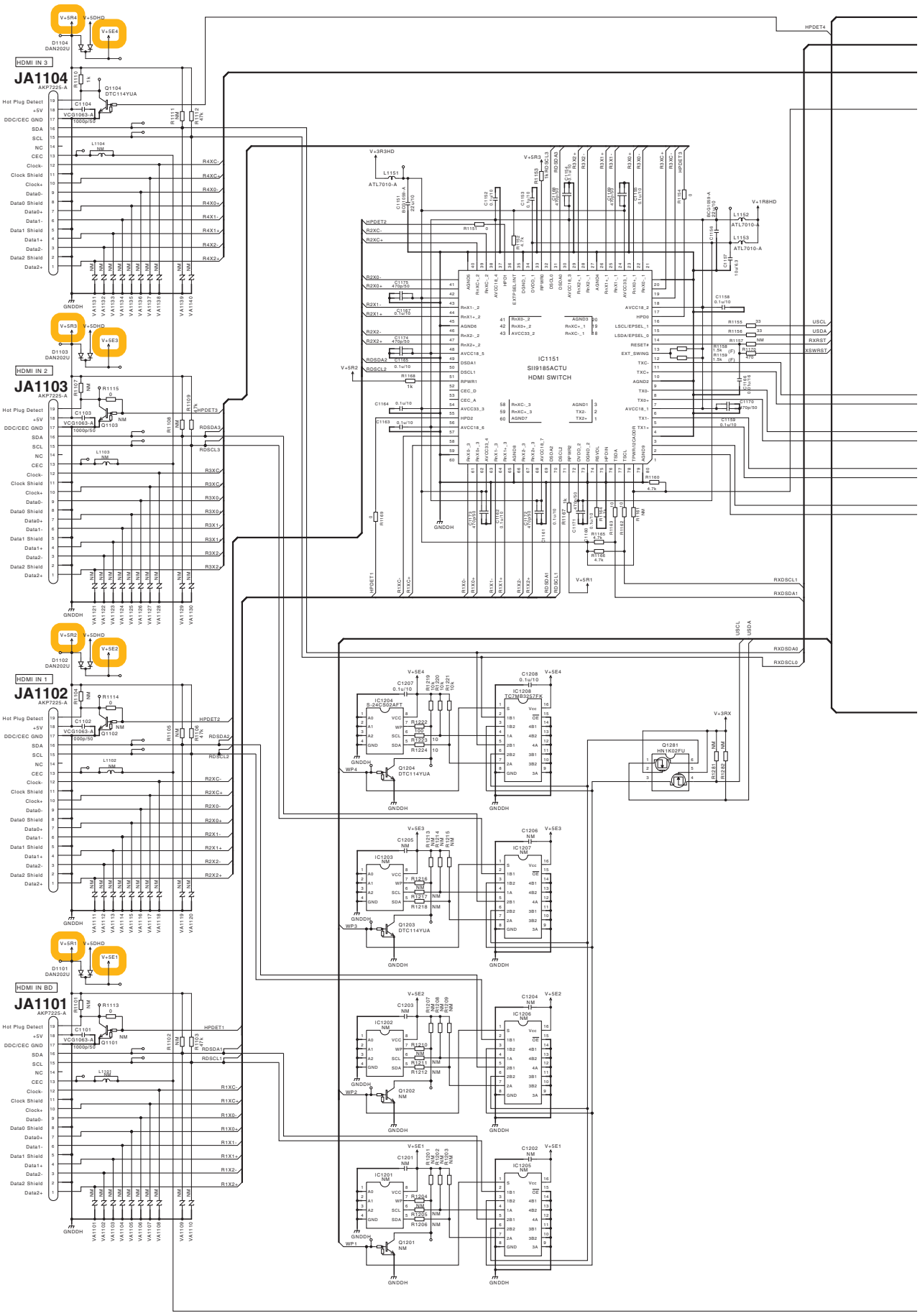
	SC-LX81 SC-LX71	/HYS
	AWX9209-	/J
C5852	NM	
C5857	NM	
C5858	NM	
R5851	0	
R5852	0	
R5853	NM	
R5854	NM	
R5855	NM	
R5856	NM	
R5857	NM	
R5861	0	
R5862	0	
R5863	0	
D5858	NM	
JA5807	NM	
KN5802	VNE1948-A	

D 232C & CONTROL ASSY (AWX9209)

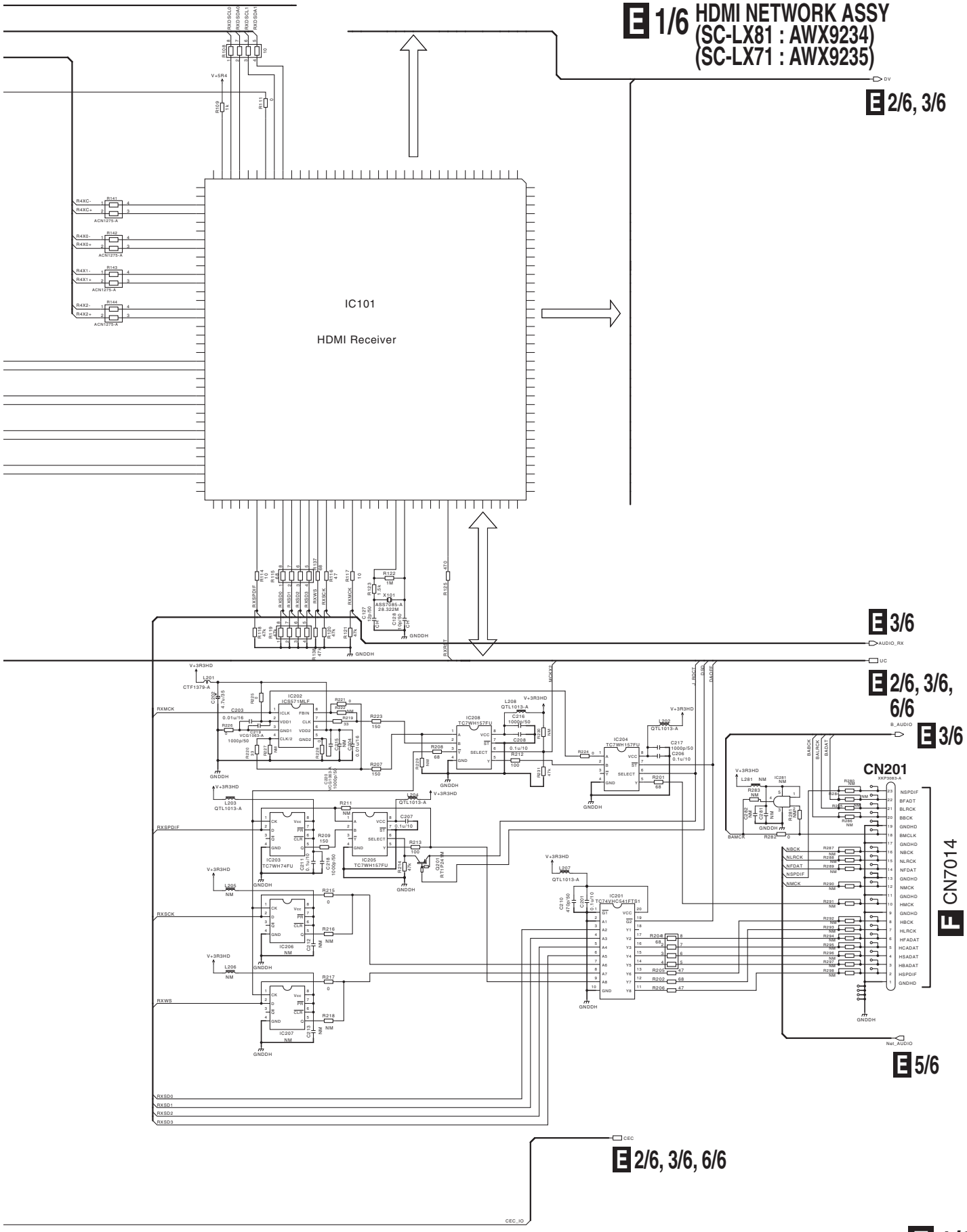


NOTE
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated Power: 1/16w unless otherwise noted.
   Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
   YB:CKSRYB, CH:CCSRCH,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

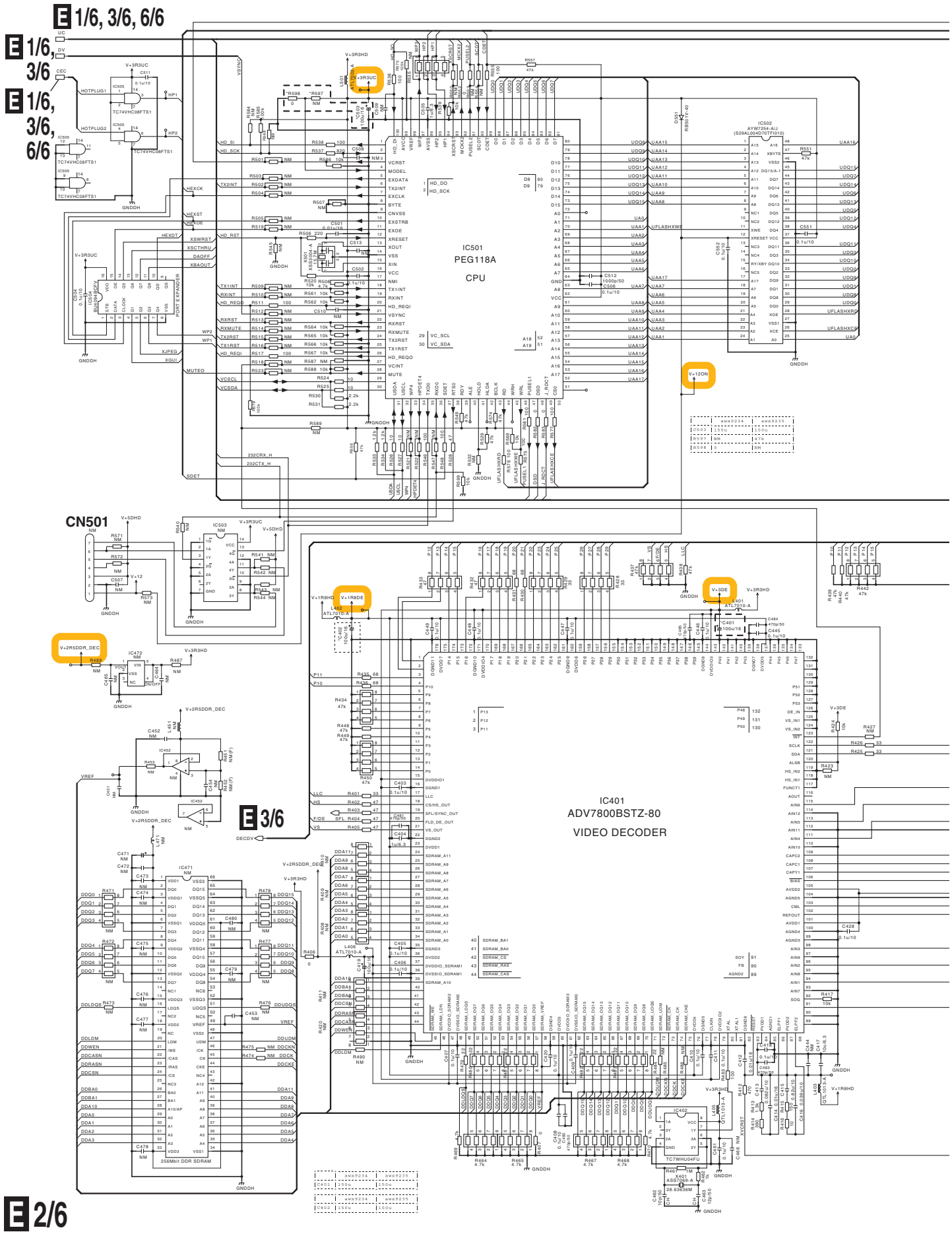
10.8 HDMI NETWORK ASSY (1/6)



E 1/6 HDMI NETWORK ASSY (SC-LX81 : AWX9234) (SC-LX71 : AWX9235)



10.9 HDMI NETWORK ASSY (2/6)



E 2/6 HDMI NETWORK ASSY (SC-LX81 : AWX9234) (SC-LX71 : AWX9235)

(SC) : S-Video Signal Route (C)
(SY) : S-Video Signal Route (Y)
(CsiteSC) : Video Signal Route (Composite C)
(CsiteSY) : Video Signal Route (Composite Y)
(CsiteV) : Video Signal Route (Composite Video)
(Csite) : Video Signal Route (Composite)
(VCY) : Video Signal Route (VCY)
(VCb) : Video Signal Route (VCb)
(VCr) : Video Signal Route (VCr)
(OSDY) : Video Signal Route (OSDY)
(OSDb) : Video Signal Route (OSDb)
(OSDr) : Video Signal Route (OSDr)

E 4/6
E 5/6
E 4/6
G CN6004
G CN6009

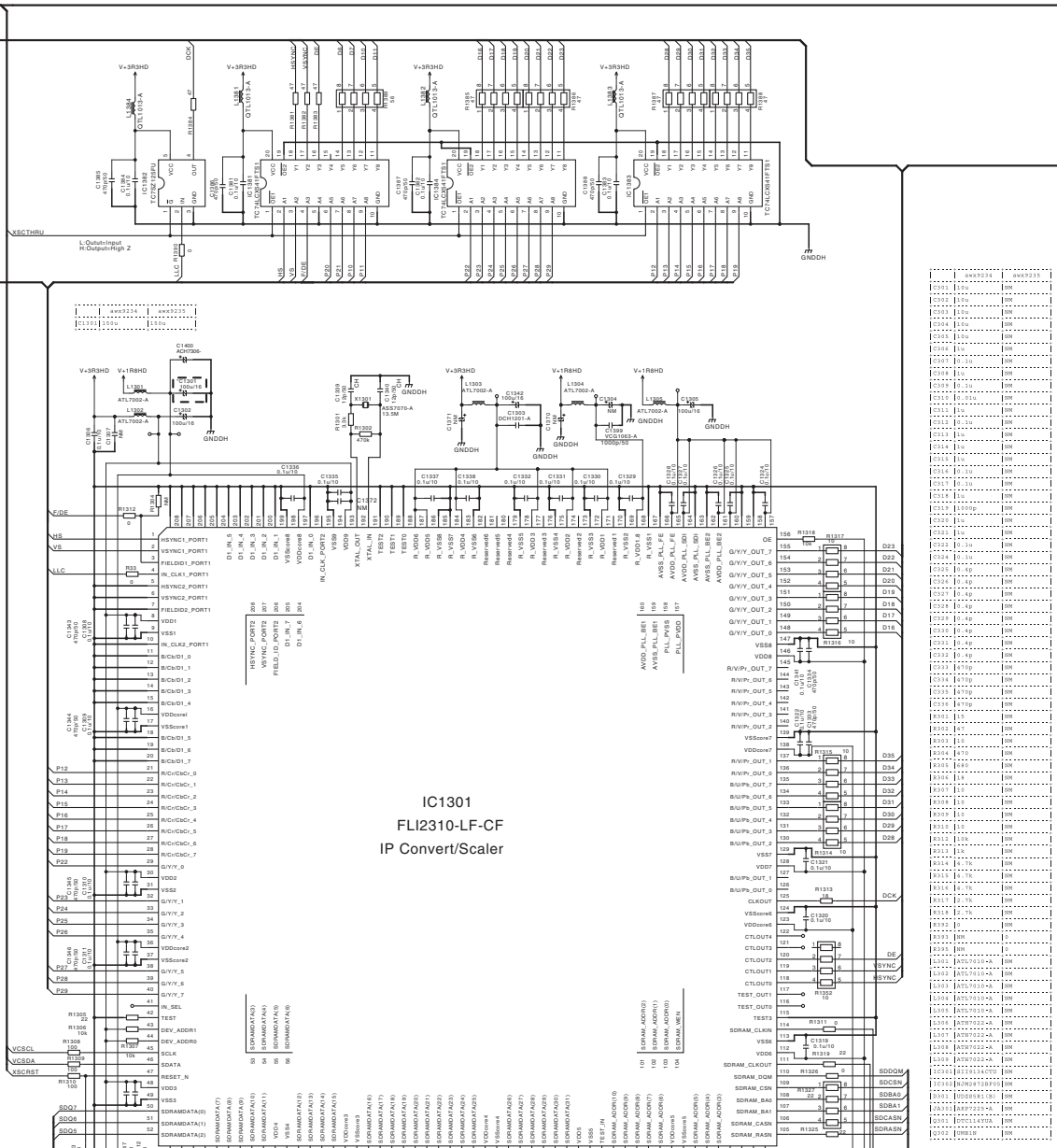
CN502
CN601
IC1401 TC7SZ125FU
IC1402 TC74LCX541FTS1
IC1403 TC7SZ125FU
IC1404 TC74LCX541FTS1
IC601 ADV7172KSTZ VIDEO ENCODER

10.10 HDMI NETWORK ASSY (3/6)

E 1/6, 2/6, 6/6

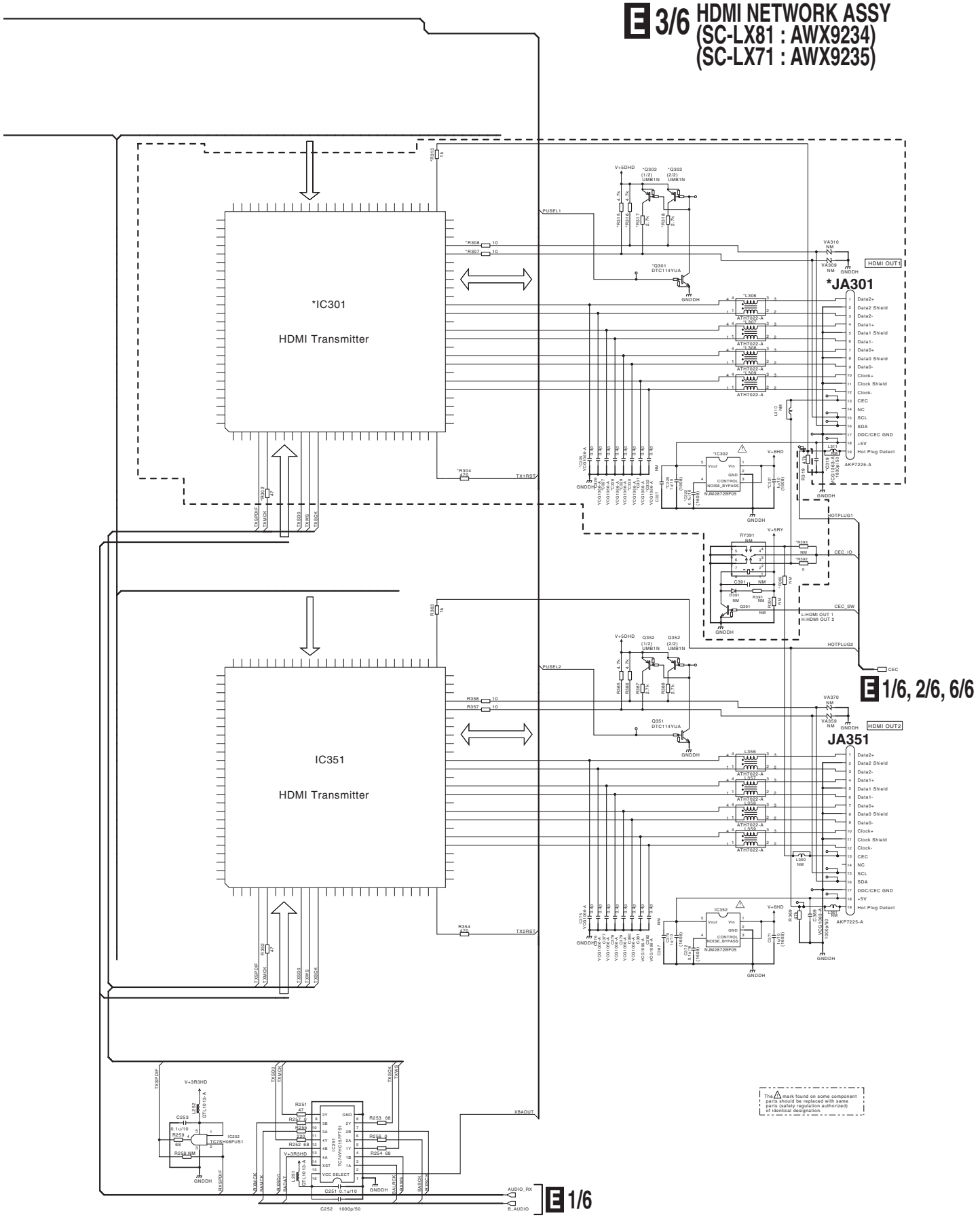
E 1/6, 2/6

E 2/6

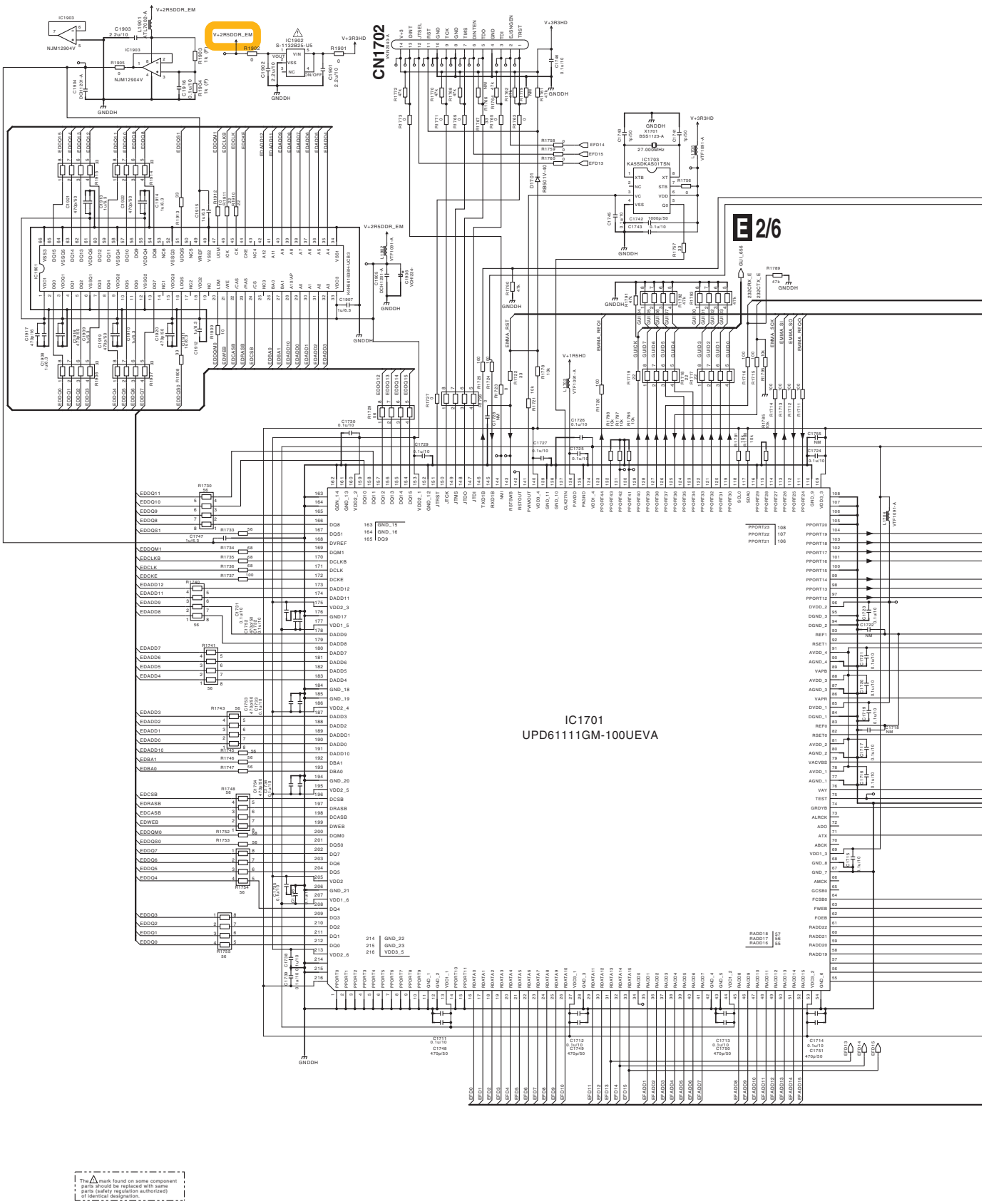


E 3/6

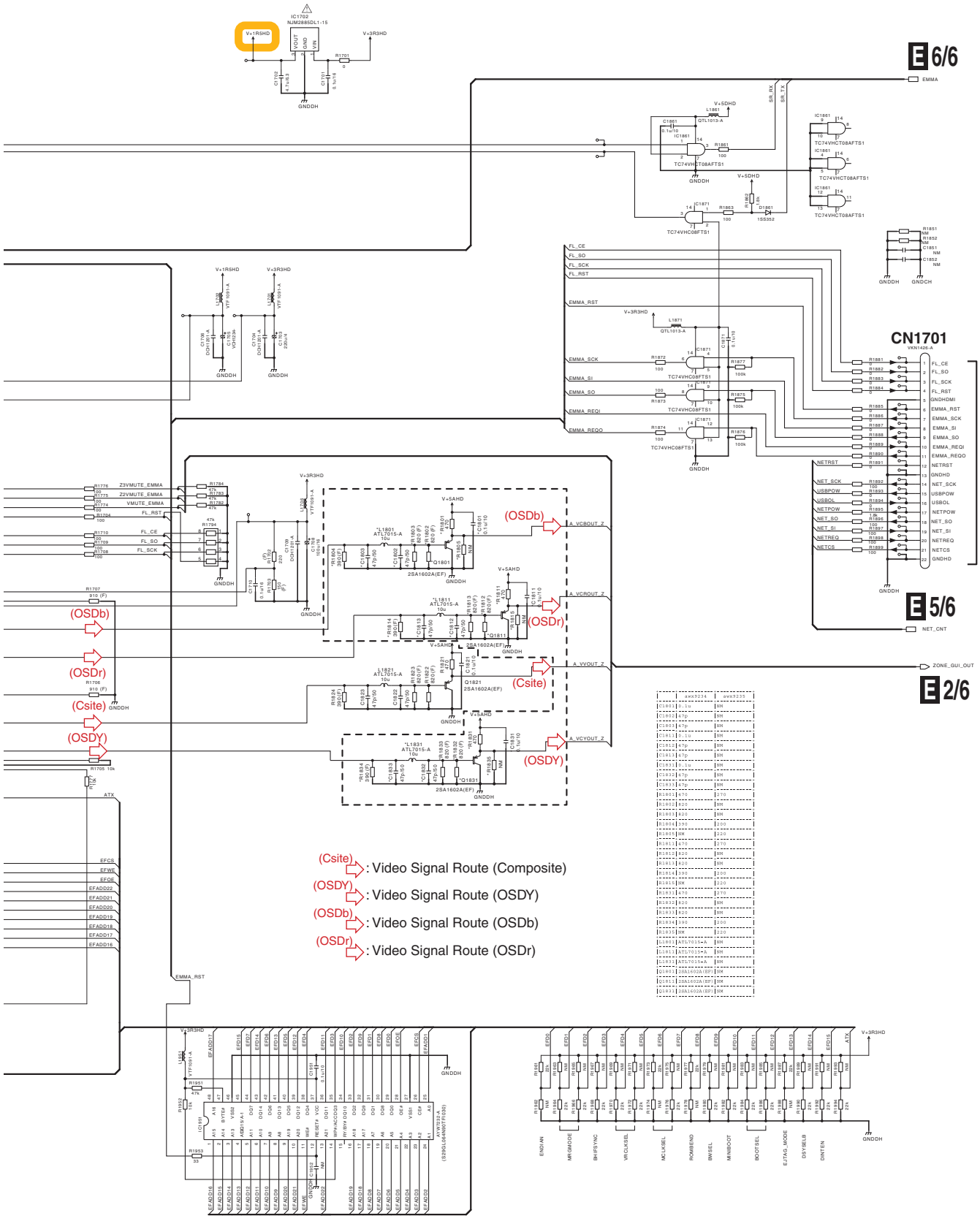
E 3/6 HDMI NETWORK ASSY (SC-LX81 : AWX9234) (SC-LX71 : AWX9235)



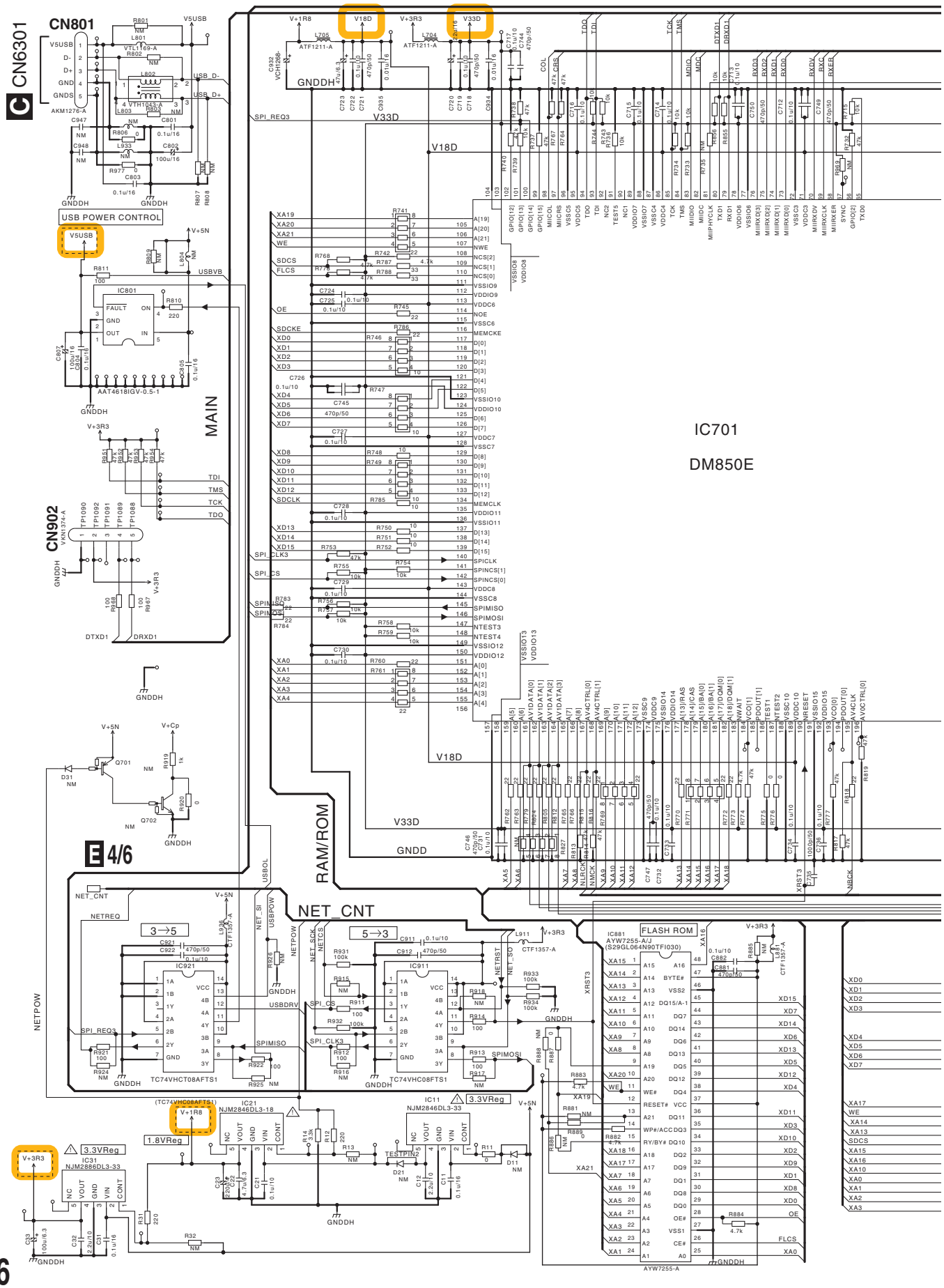
10.11 HDMI NETWORK ASSY (4/6)



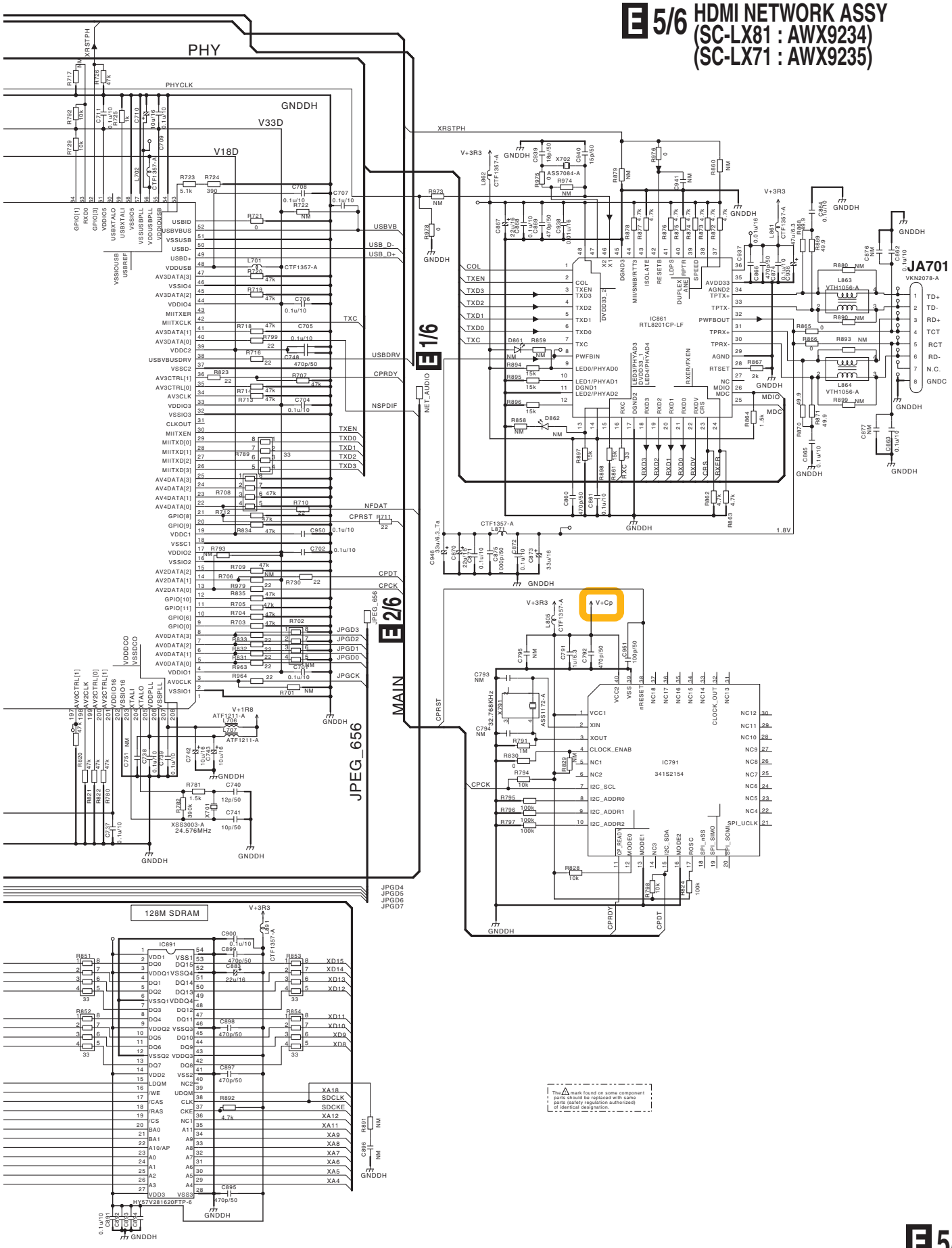
E 4/6 HDMI NETWORK ASSY (SC-LX81 : AWX9234) (SC-LX71 : AWX9235)



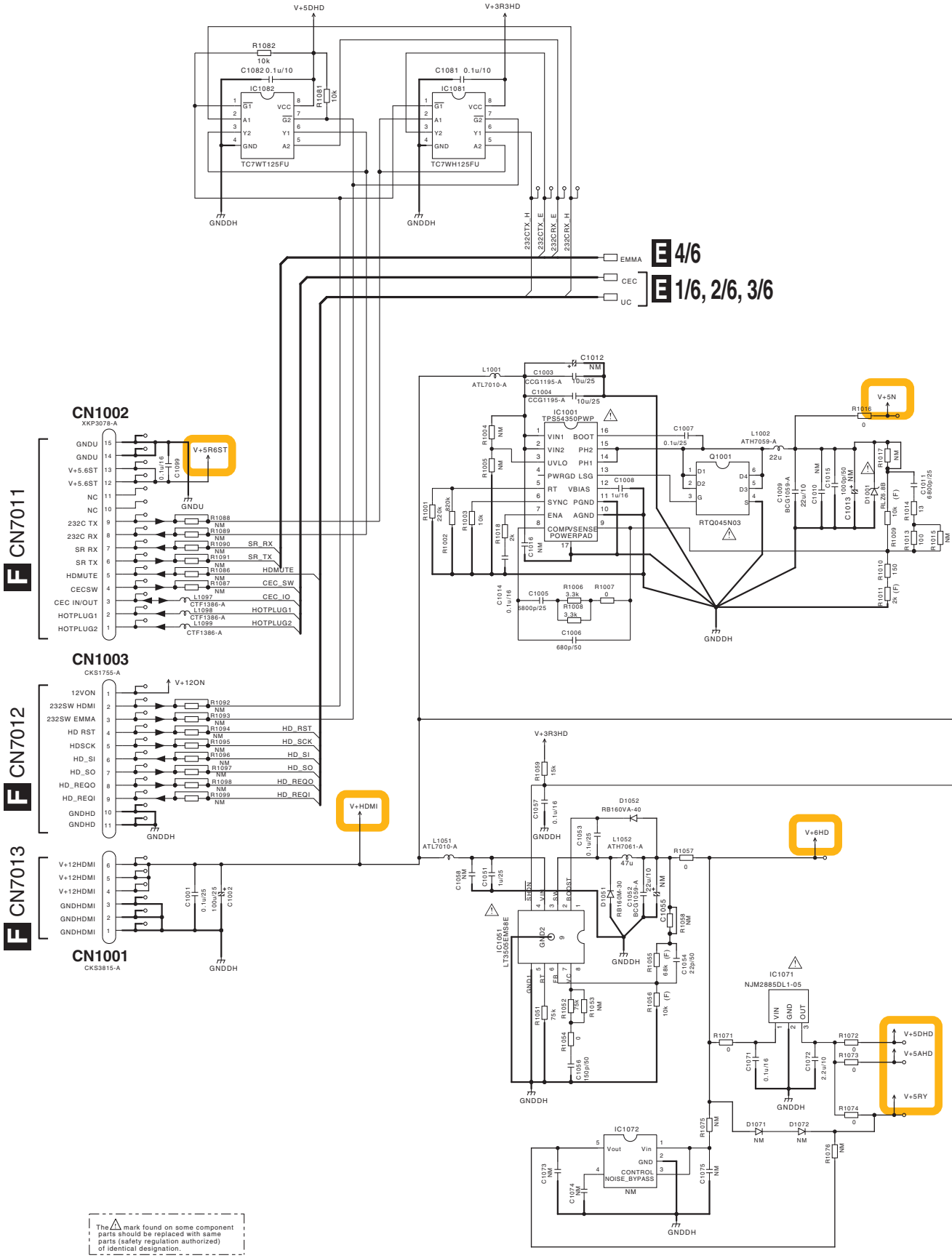
10.12 HDMI NETWORK ASSY (5/6)



E 5/6 HDMI NETWORK ASSY (SC-LX81 : AWX9234) (SC-LX71 : AWX9235)

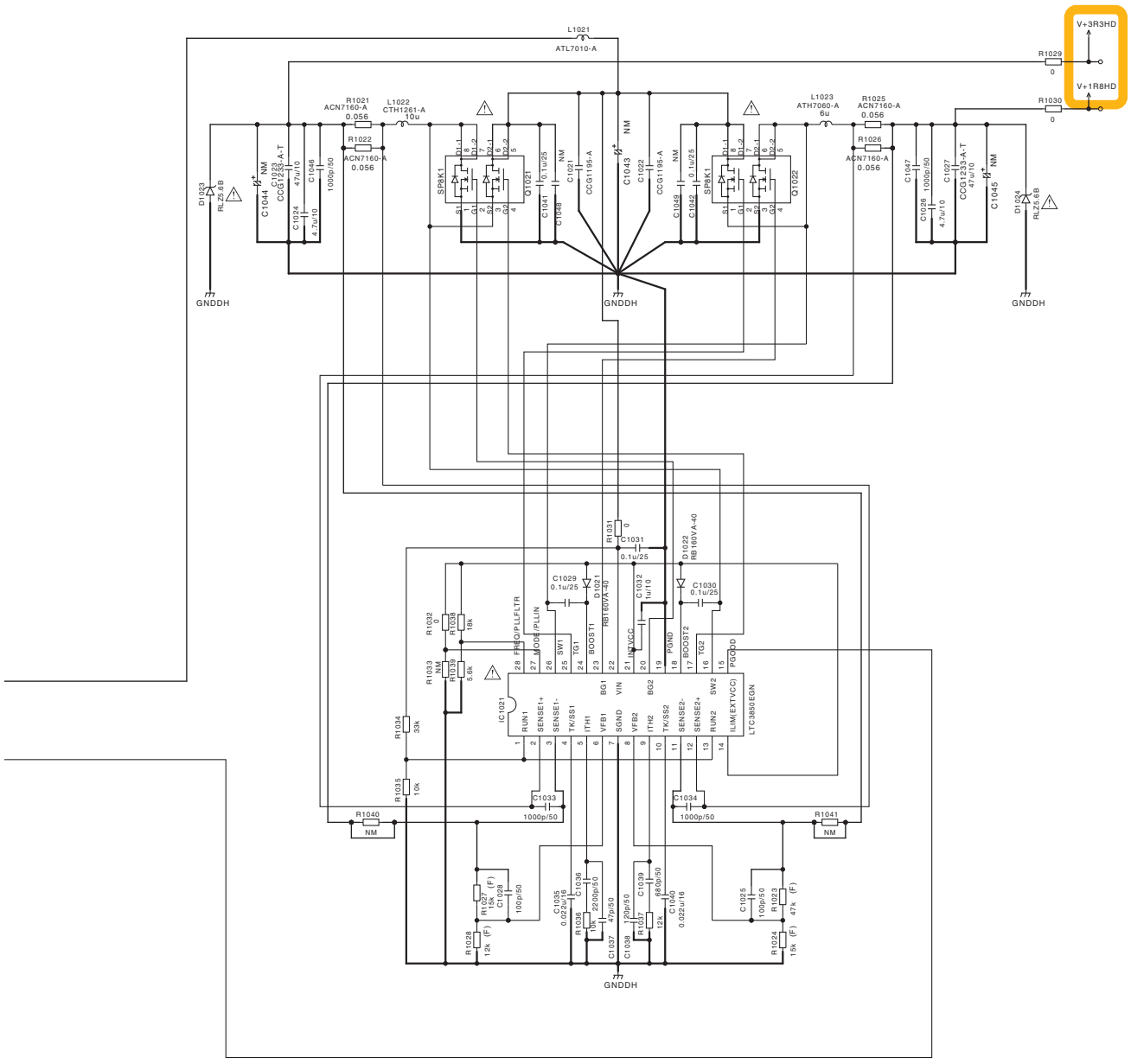


10.13 HDMI NETWORK ASSY (6/6)

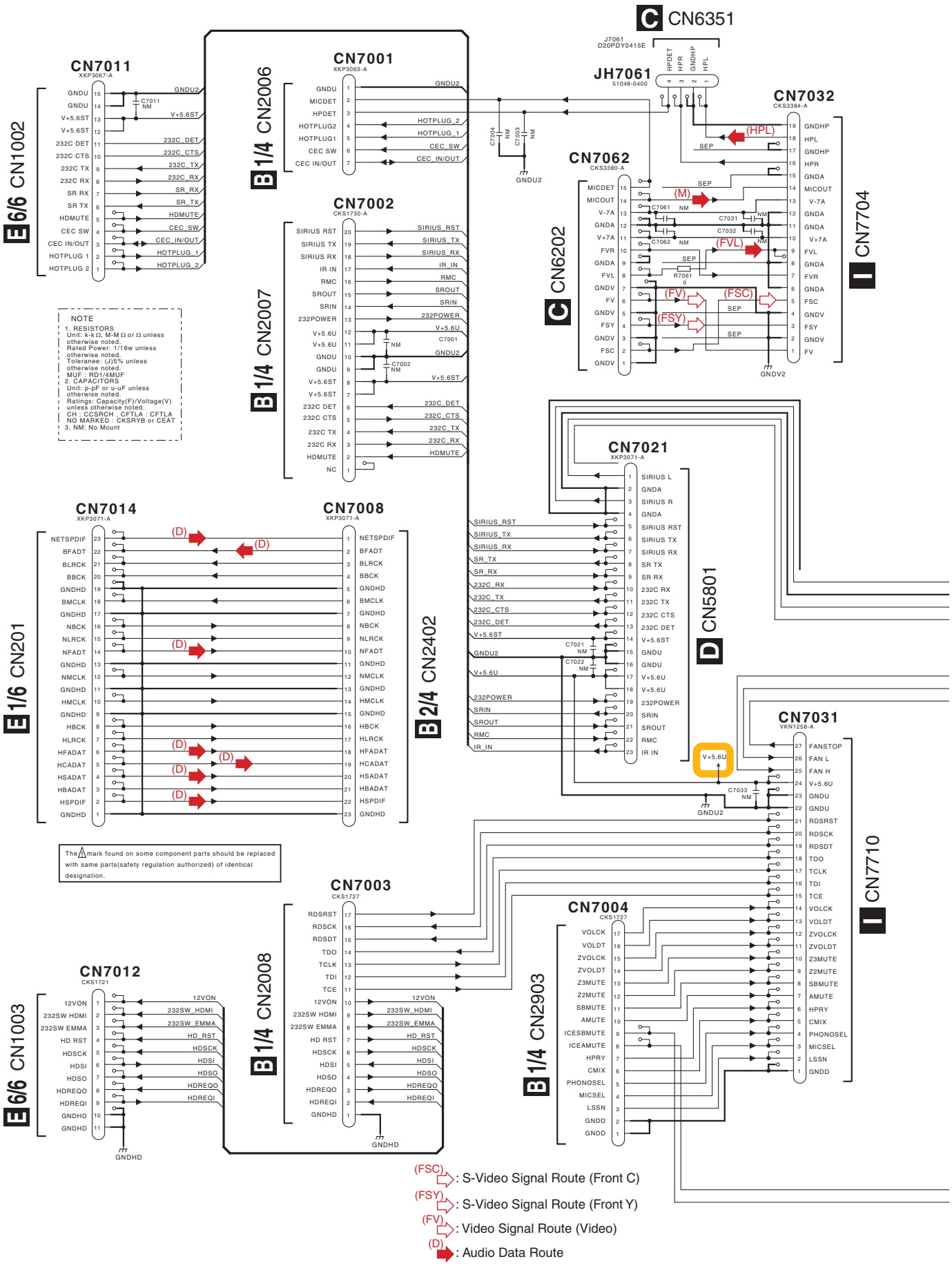


E 6/6

E 6/6 HDMI NETWORK ASSY (SC-LX81 : AWX9234) (SC-LX71 : AWX9235)

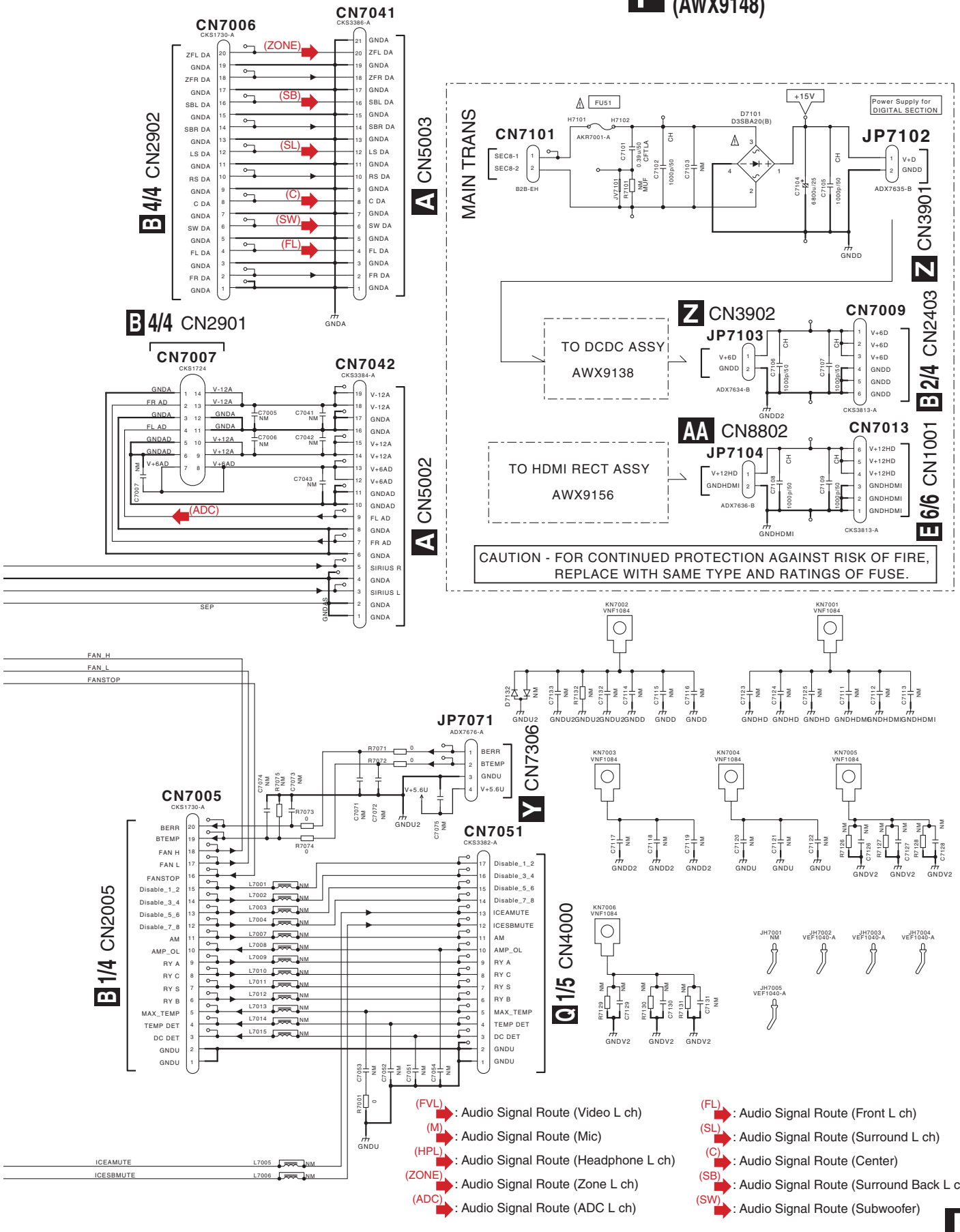


10.14 INTERFACE ASSY



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.
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

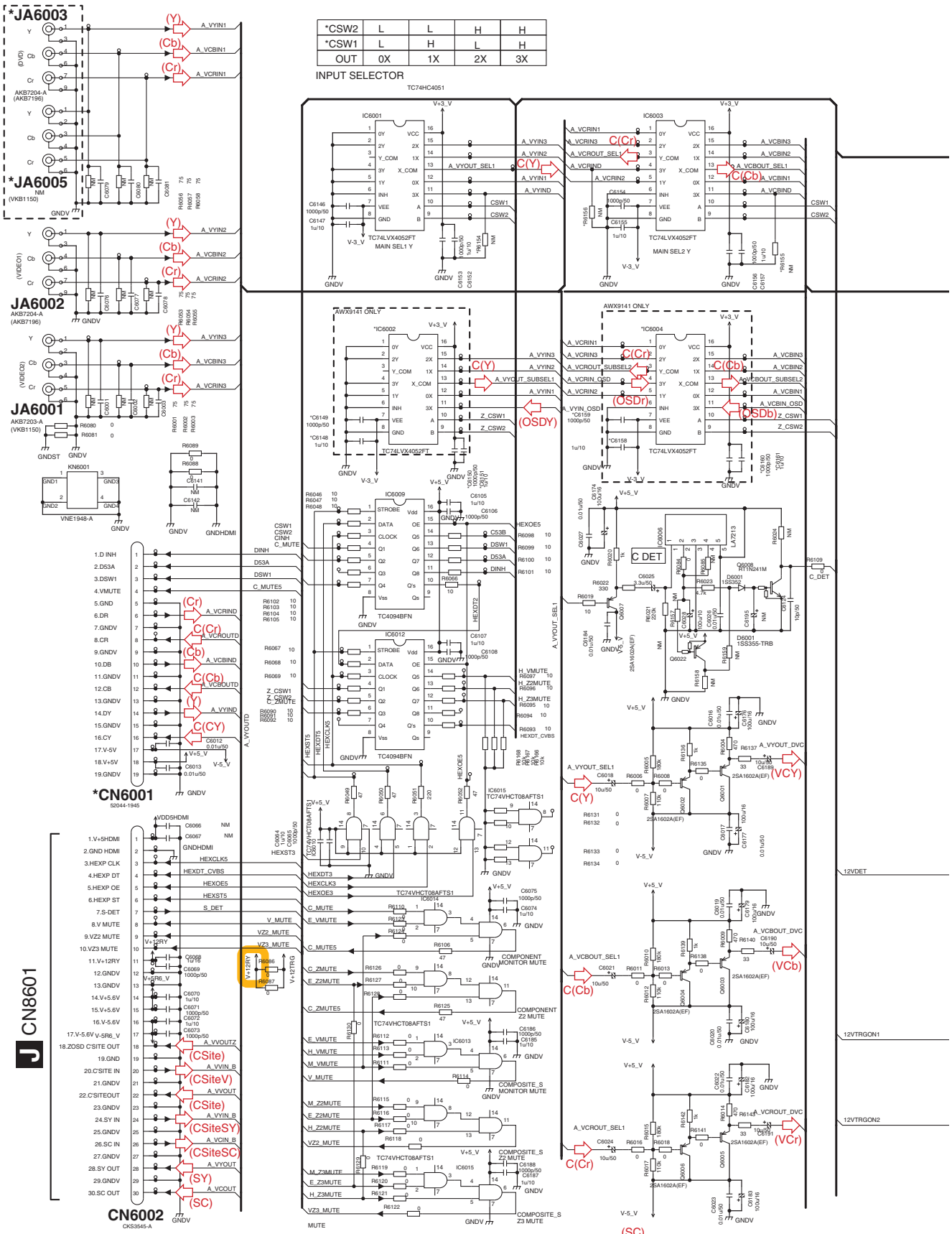
F INTERFACE ASSY (AWX9148)



(FVL) : Audio Signal Route (Video L ch)
(M) : Audio Signal Route (Mic)
(HPL) : Audio Signal Route (Headphone L ch)
(ZONE) : Audio Signal Route (Zone L ch)
(ADC) : Audio Signal Route (ADC L ch)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center)
(SB) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (Subwoofer)

*CSW2	L	L	H	H
*CSW1	L	H	L	H
OUT	0X	1X	2X	3X

INPUT SELECTOR



G COMPONENT ASSY (SC-LX81 : AWX9141) (SC-LX71 : AWX9211)

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

C53B	SELECT
L	0*
H	1*

SELECTOR FOR DVC/THROUGH
IC6005
TC74LVX4053FT
MAIN SEL2

T CN8711
CN6008
PF05PG-R22

V CN7602
CN6007
ADX7654-A

JA6004
AKN-209-A

JA6002
AKB7204-A

*JA6003
AKB7204-A

CN6006
VKN1420-A

B 1/4 CN2001

CN6004
XKP3066-A

E 2/6 CN502

E 2/6 CN601

CN6009

IC6007
NJM2581M

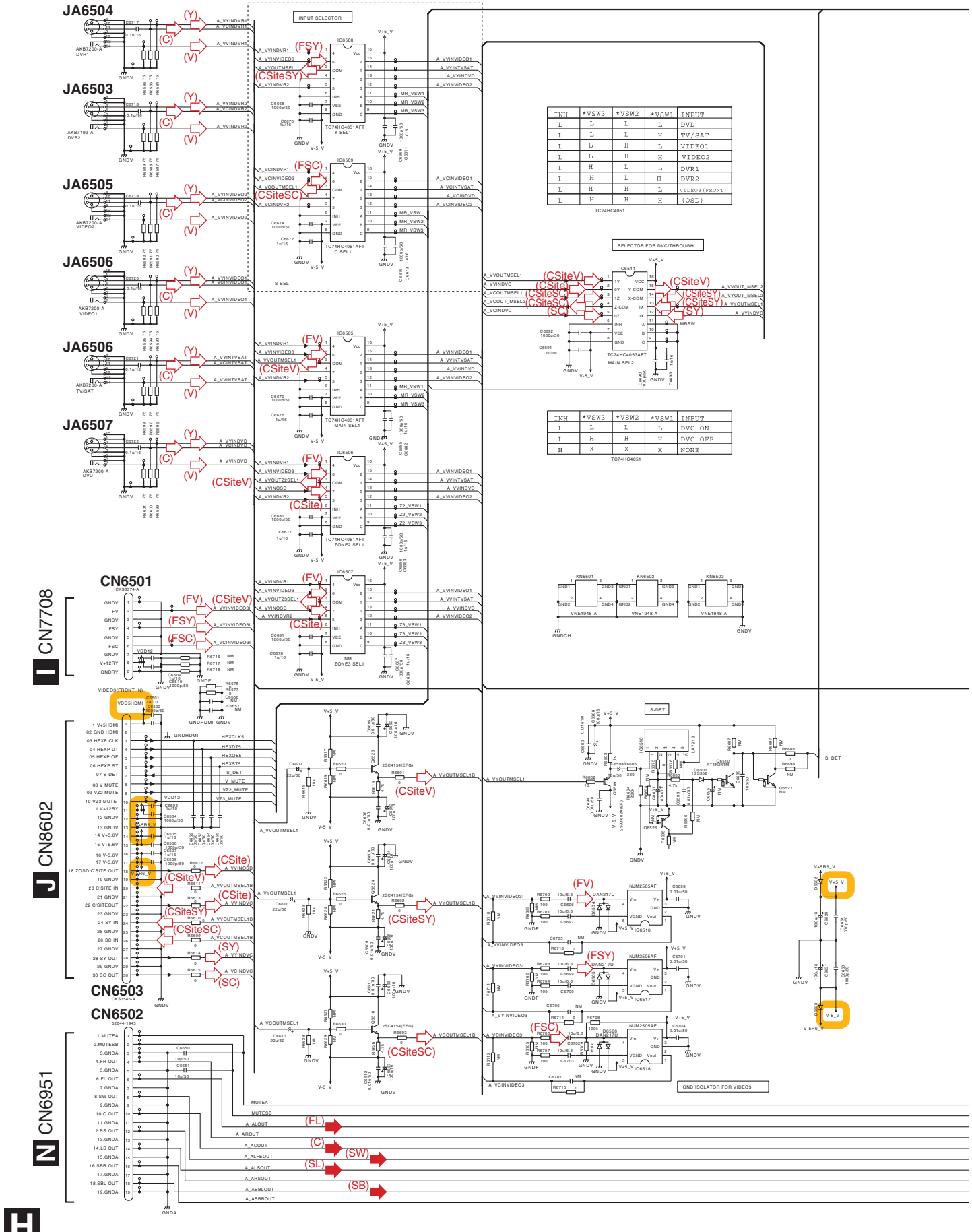
*IC6008
NJM2581M

(Y) : Video Signal Route (Y)
(Cb) : Video Signal Route (Cb)
(Cr) : Video Signal Route (Cr)
C(Y) : Video Signal Route (Component Y)
C(Cb) : Video Signal Route (Component Cb)
C(Cr) : Video Signal Route (Component Cr)

(VCY) : Video Signal Route (VCY)
(VCb) : Video Signal Route (VCb)
(VCr) : Video Signal Route (VCr)
(OSDY) : Video Signal Route (OSDY)
(OSDb) : Video Signal Route (OSDb)
(OSDr) : Video Signal Route (OSDr)

(CSiteSY) : Video Signal Route (Composite Y)
(CSiteV) : Video Signal Route (Composite Video)
(CSite) : Video Signal Route (Composite)

10.16 COMPOSITE S ASSY



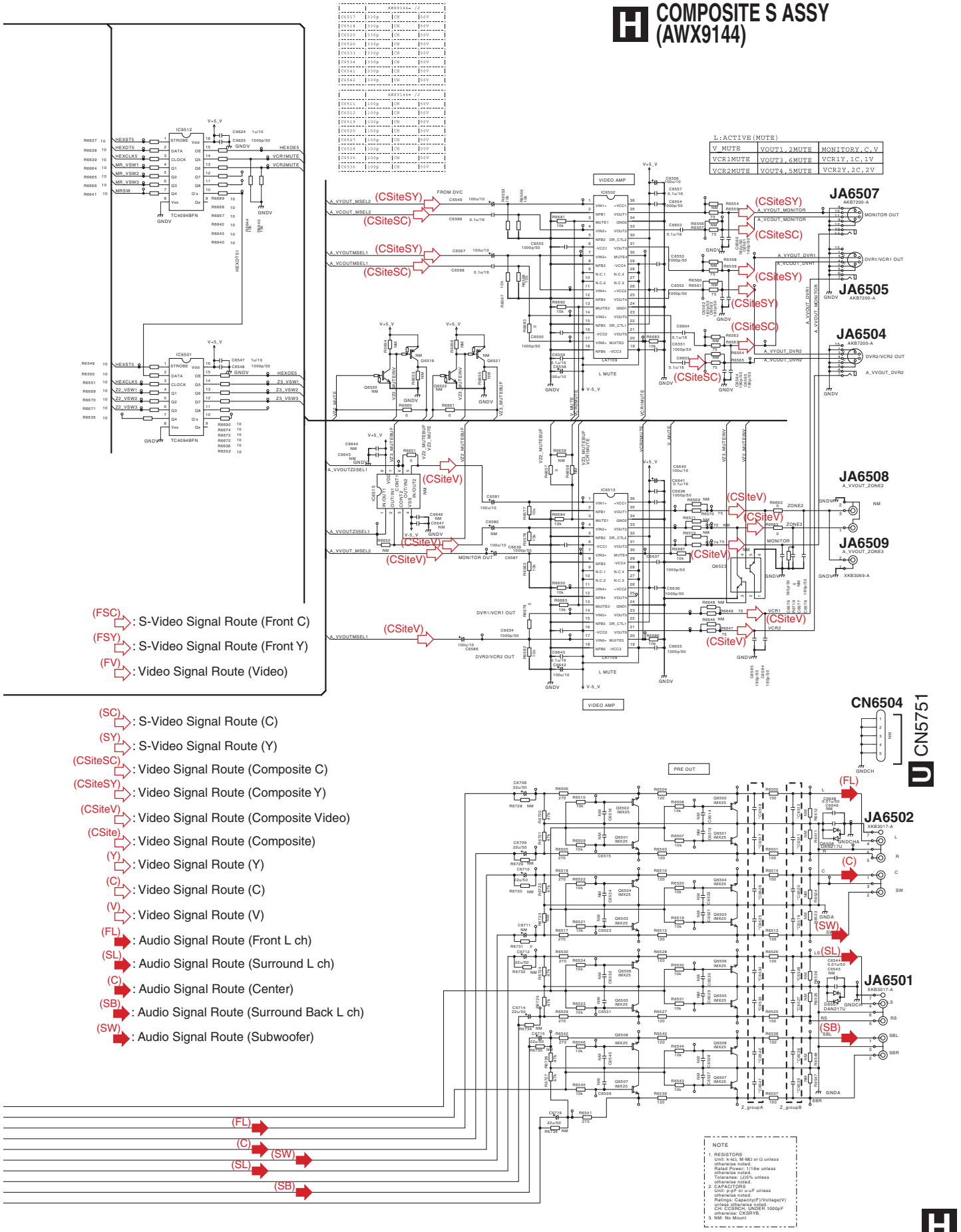
INH	*VSW3	*VSW2	*VSW1	INPUT
L	L	L	L	DVD
L	L	L	H	TV/SAT
L	L	H	L	VIDEO1
L	L	H	H	VIDEO2
L	H	L	L	DVR1
L	H	L	H	DVR2
L	H	H	L	VIDEO3(FRONT)
L	H	H	H	(OSD)

TC74HC4051

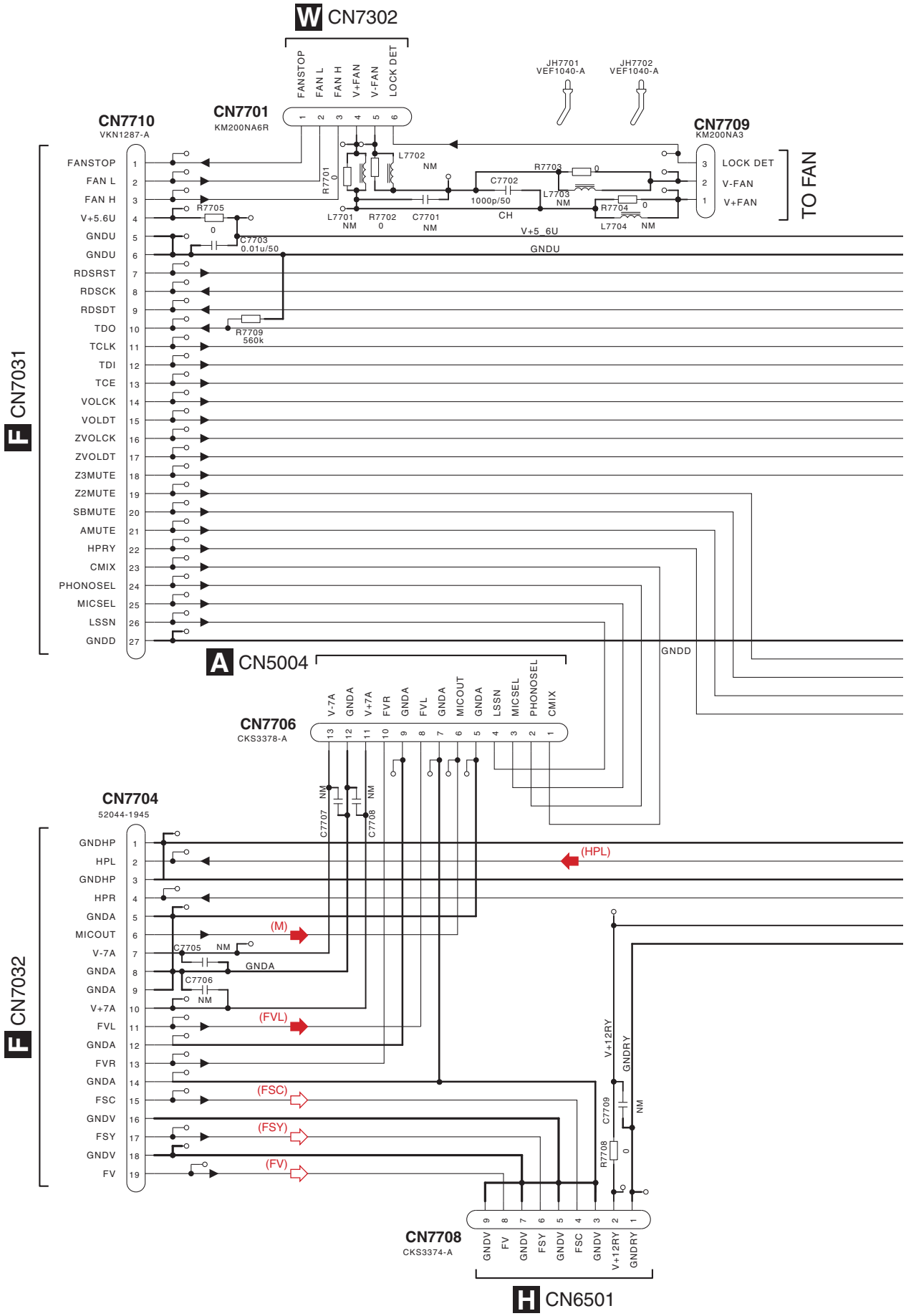
INH	*VSW3	*VSW2	*VSW1	INPUT
L	L	L	L	DVC ON
L	H	H	H	DVC OFF
H	X	X	X	NONE

TC74HC4051

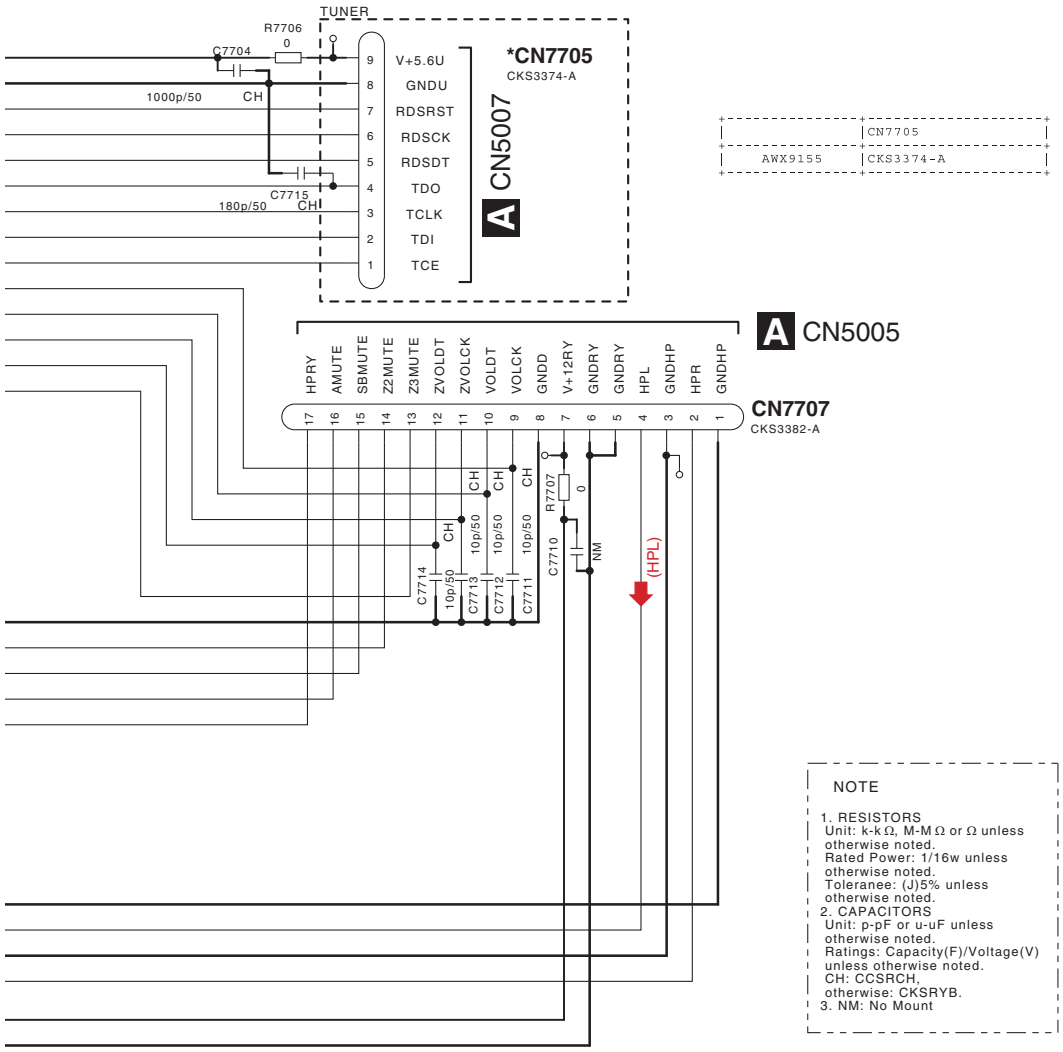
COMPOSITE S ASSY (AWX9144)



10.17 FRONT BRIDGE ASSY



I FRONT BRIDGE ASSY (AWX9155)



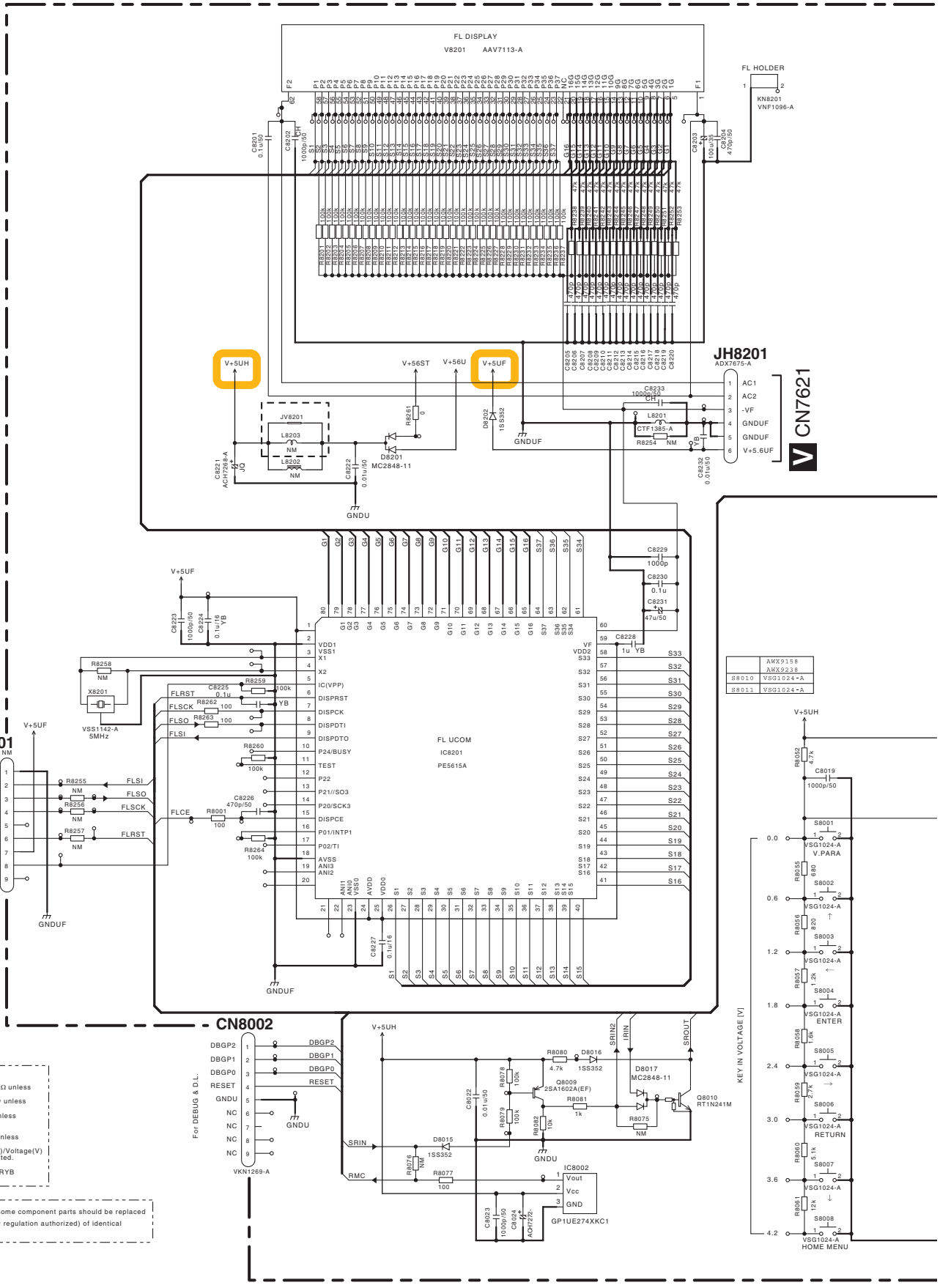
	CN7705
AWX9155	CKS3374-A

NOTE

1. RESISTORS
   Unit: k-k Ω, M-M Ω 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,
   otherwise: CKSRYB.
3. NM: No Mount

(FSC) : S-Video Signal Route (Front C)
(FSY) : S-Video Signal Route (Front Y)
(FV) : Video Signal Route (Video)
(FVL) : Audio Signal Route (Video L ch)
(M) : Audio Signal Route (Mic)
(HPL) : Audio Signal Route (Headphone L ch)

10.18 DISPLAY, VOL and POWER SW ASSYS



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
NO MARKED : CKSRYB
3. NM: No Mount

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

K DISPLAY ASSY (SC-LX81 : AWX9158) (SC-LX71 : AWX9238)

B 1/4 CN2002

	AWX9158	AWX9238
R8014	0	NM
R8015	NM	0
R8084	NM	0

CN8001 VKN1872-A

DISP CE, DISP DI, DISP CLK, DISP RST, GNDHDMI, EVENT REQ, EVENT RDY, EVENT DO, EVENT DI, EVENT CLK, EVENT RST, V+5.6ST, V+5.6U, GNDU, GNDU, 232RX, 232TX, 1W WUP, ACRY, GNDU, SRIN, SROUT, RMC, IRIN, CEC SW, CEC IN/OUT, HOTPLUG1, HOTPLUG2, 232CDET

IC8004 S-1200B33-M5 (VOUT, VIN, VSS, NC, ON/OFF)

V+3E, V+5UH, GNDU, GNDUF, D8020 1SS302

FLCE, FLSO, FLSCK, FLRST, EVREQ, EVRDY, EVSI, EVSO, EVSCK, EVRST

HDMI, V_COM, PHASE, MCACC, ICE_B, ICE_W

D8001–D8014 SLR-343VC(NPQ) / SLR343BC4T(UKLM) / SLR343WBC1T(NPQ)

Q8001–Q8007 RT1N431M

EVRST, RESET, CECI/O, Q8008 NM, Q8012 2SK2034

EVSCK, EVSO, EVSI, DBGP0, DBGP1, DBGP2, 1WWP, EVRDY

SRIN2, IRIN, EVREQ, RESET, KEY1, KEY2, KEY3

EVENT UCOM IC8001 PDC179A8

EVENT_DO, FLASHCLK, FLASHDO, FLASHE/O, TEST_CHECKER, 1W_WP, RS232C_TS, EVENT_RDY, RS232C_TX, RS232C_RX, ICE_White_LED, ICE_Blue_LED, RS232C_DET, POWER_KEY, HOTPLUG, Multi_room_ON/OFF_KEY, STANBY_LED, MIC_DET, HP_DET, TEMP2

X8002 CSS1653 15MHz

JOGA, JOGB, VOLA, VOLB, CEC_SW, HOTPLUG2, HDMI, V_COM, PHASE, MCACC, RYAC

JH8001 51048-0300, JH8401 51048-0300

S8401 ASX7049-A, S8024 ASX7051-A

L VOL ASSY (AWX9159)

INPUT SELECTOR

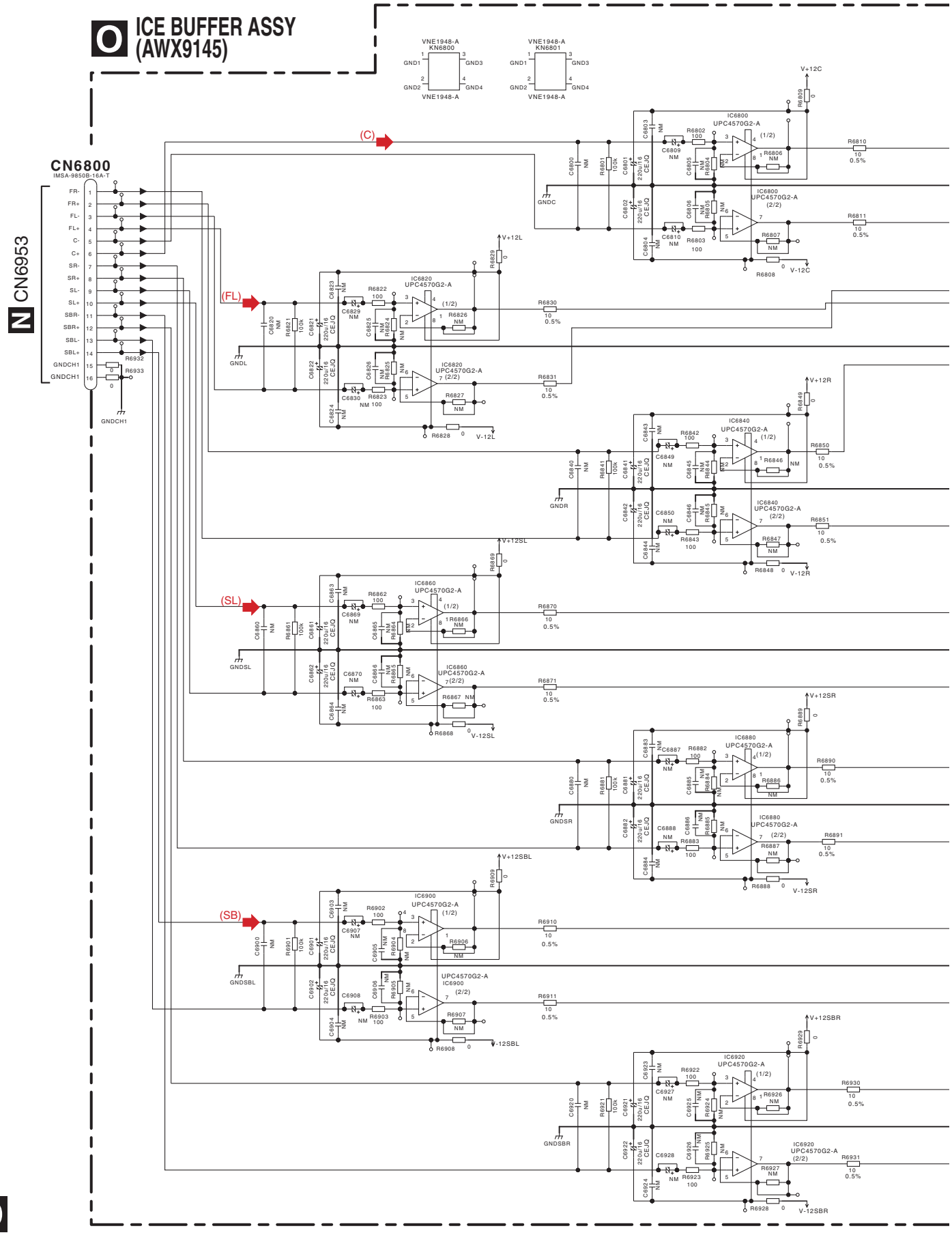
M POWER SW ASSY (AWX9160)

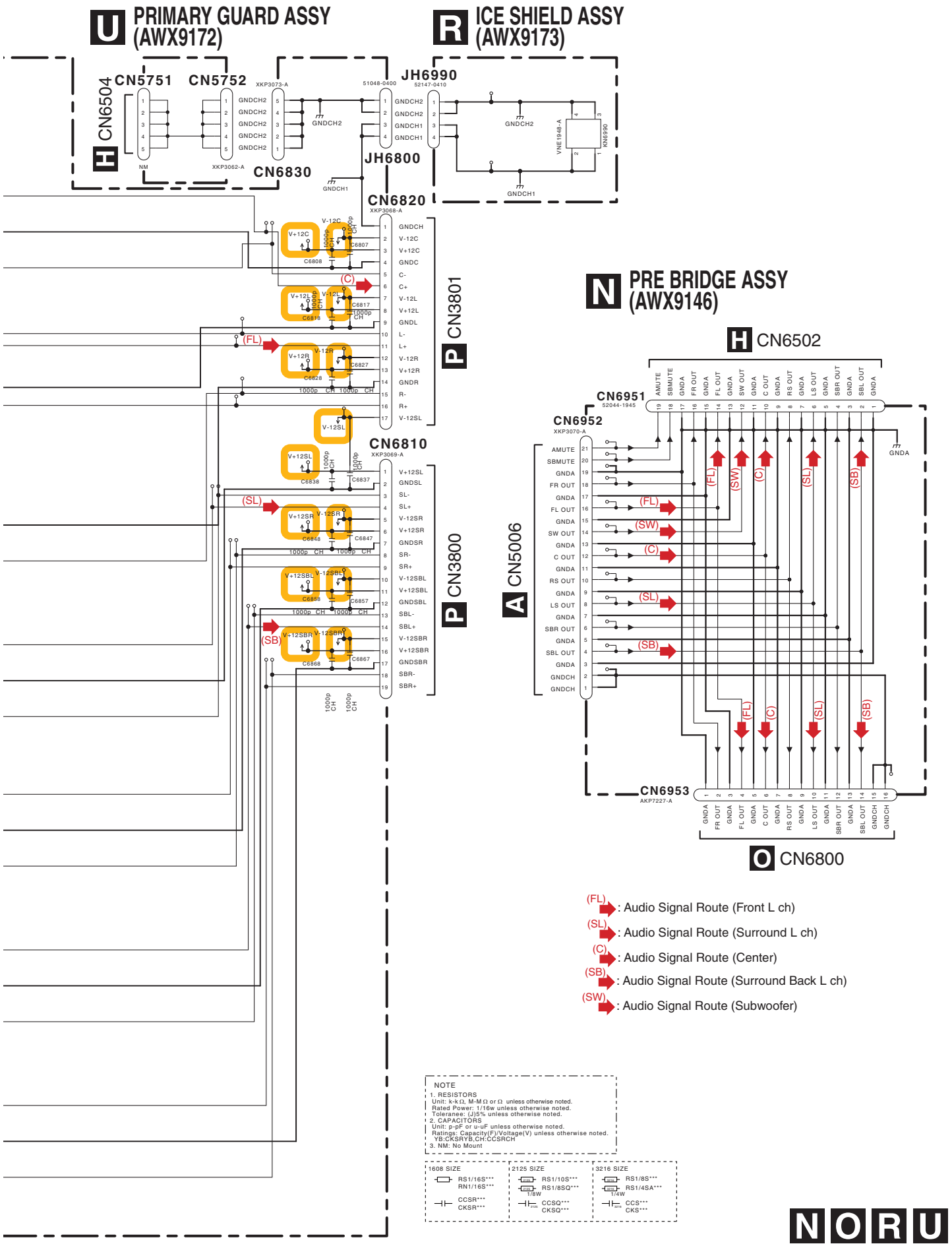
JH8003 51048-0400, JH8501 51048-0400

S8010 BAND, S8011 T.EDIT, S8012 AUTOSURR, S8015 SP, S8016 A.PARA, S8009, S8017 HOMETHX, S8018 STANDARD, S8019 ADVA, S8020 STEREO, S8023 CONTROL

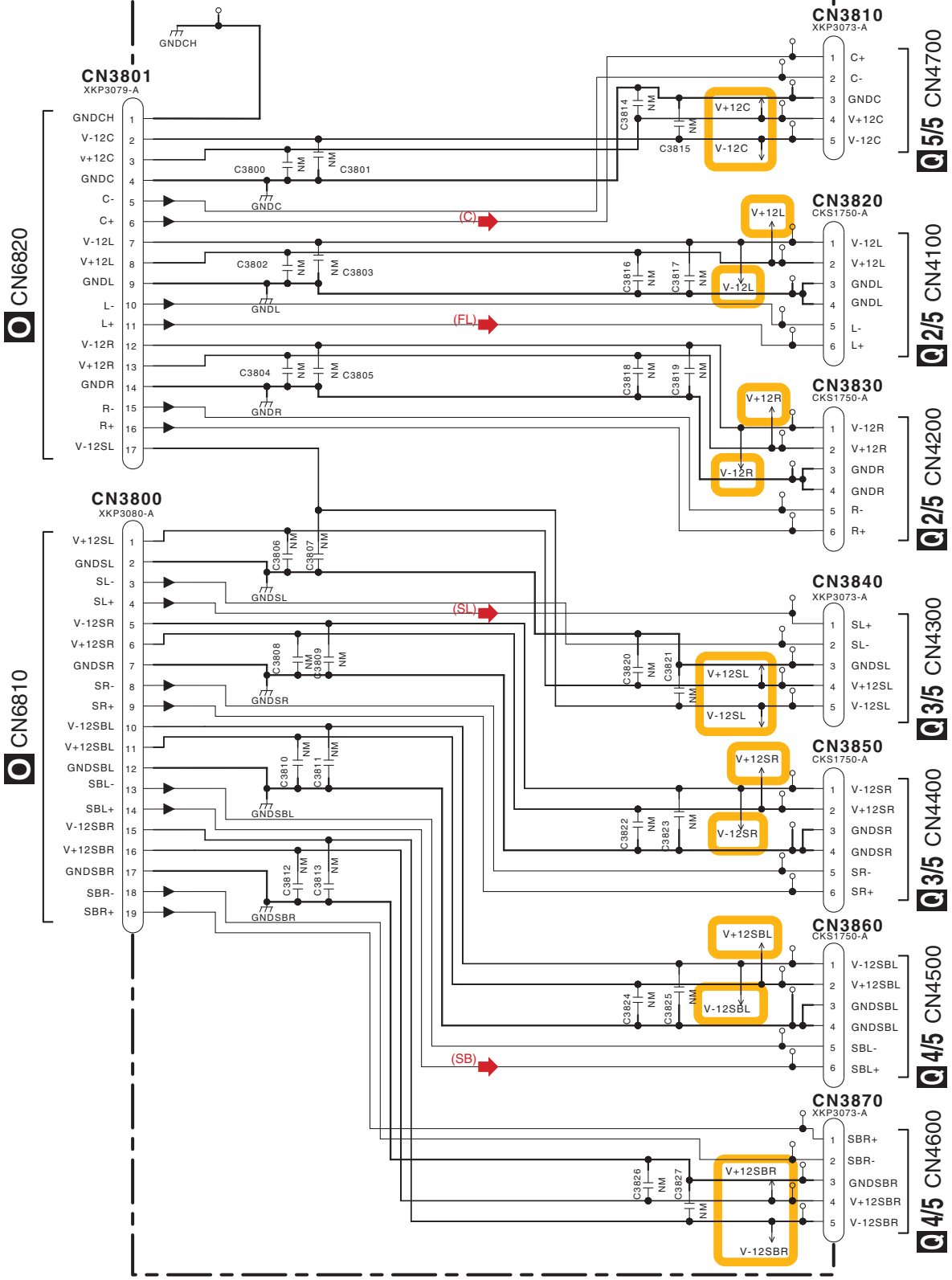
Multiroom ON/OFF

10.19 PRE BRIDGE, ICE BUFFER, ICE SHIELD and PRIMARY GUARD ASSYS




U PRIMARY GUARD ASSY (AWX9172)
R ICE SHIELD ASSY (AWX9173)
H CN6504
CN5751
CN5752
XKP3073-A
XKP3062-A
NM
CN6830
JH6990
52147-0410
JH6800
CN6820
XKP3068-A
P CN3801
CN6810
XKP3069-A
P CN3800
N PRE BRIDGE ASSY (AWX9146)
H CN6502
CN6951
52044-1945
CN6952
XKP3070-A
A CN5006
CN6953
AKP7227-A
O CN6800
(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center)
(SB): Audio Signal Route (Surround Back L ch)
(SW): Audio Signal Route (Subwoofer)
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
1608 SIZE
RS1/16S***
RN1/16S***
CCSR***
CKSR***
2125 SIZE
RS1/10S***
RS1/8SQ***
1/8W
CCSQ***
CKSQ***
3216 SIZE
RS1/8S***
RS1/4SA***
1/4W
CCS***
CKS***

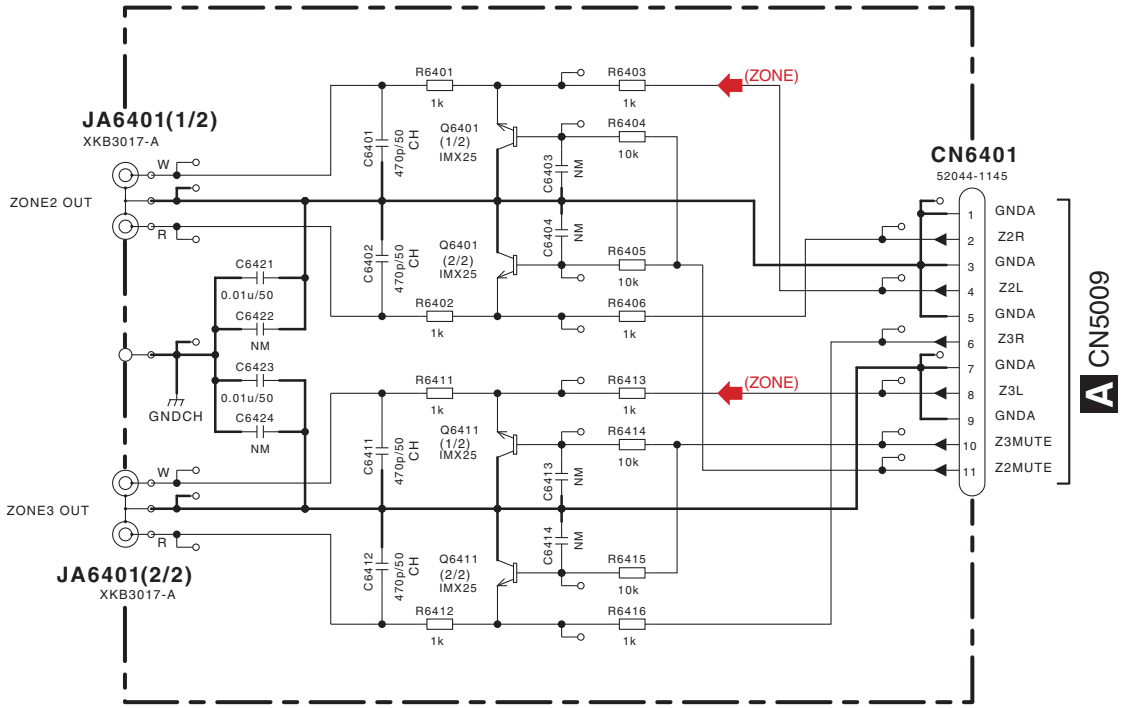
P ICE INTERFACE ASSY (AWX9137)



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.
YB:CKSRYB,CH:CCSRCH
3. NM: No Mount

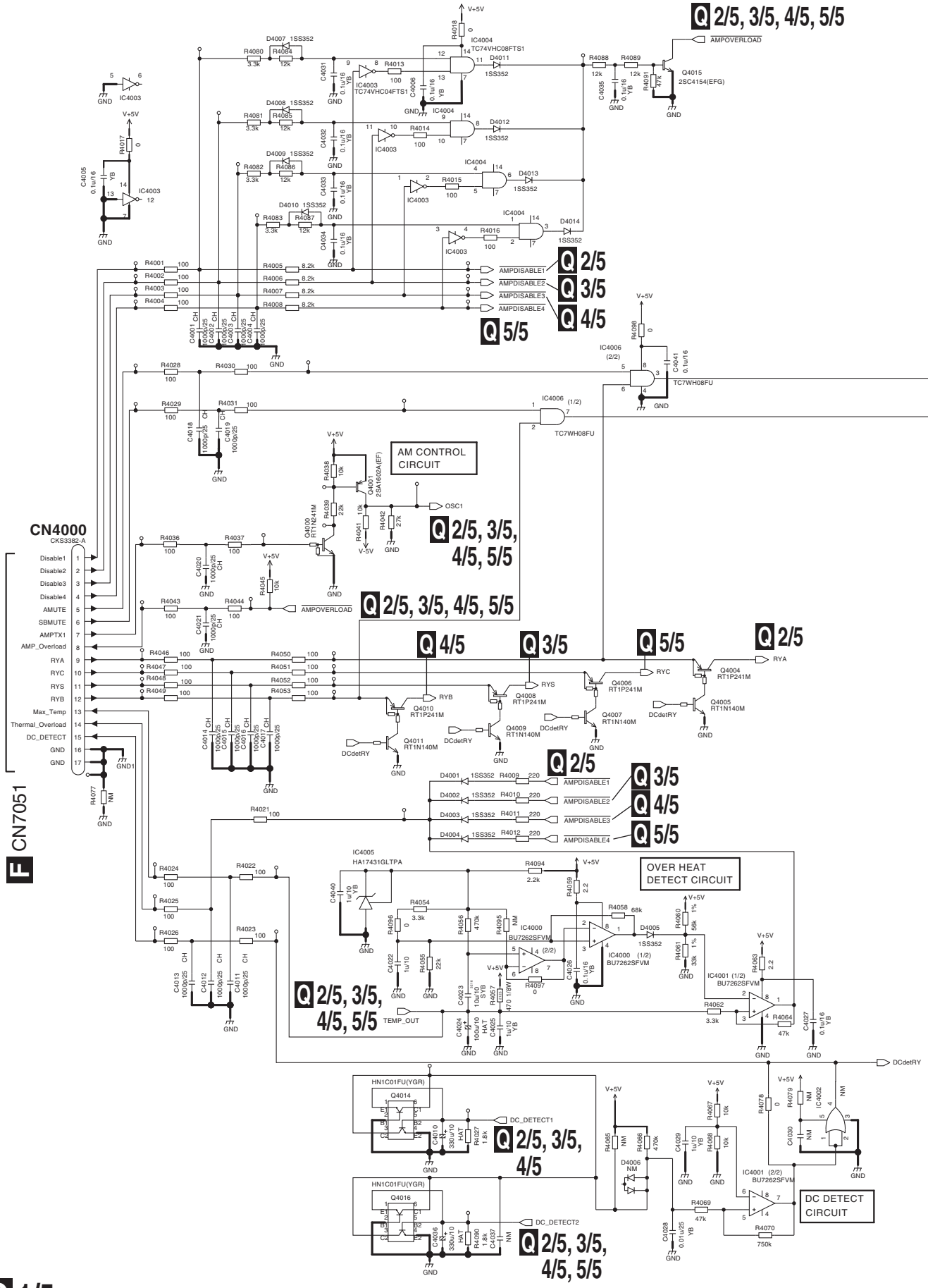
1608 SIZE	2125 SIZE	3216 SIZE
RS1/16S*** RN1/16S***	RS1/10S*** RS1/8SQ*** 1/8W	RS1/8S*** RS1/4SA*** 1/4W
CCSR*** CKSR***	CCSQ*** CKSQ***	CCS*** CKS***

S ZOUT ASSY (AWX9143)

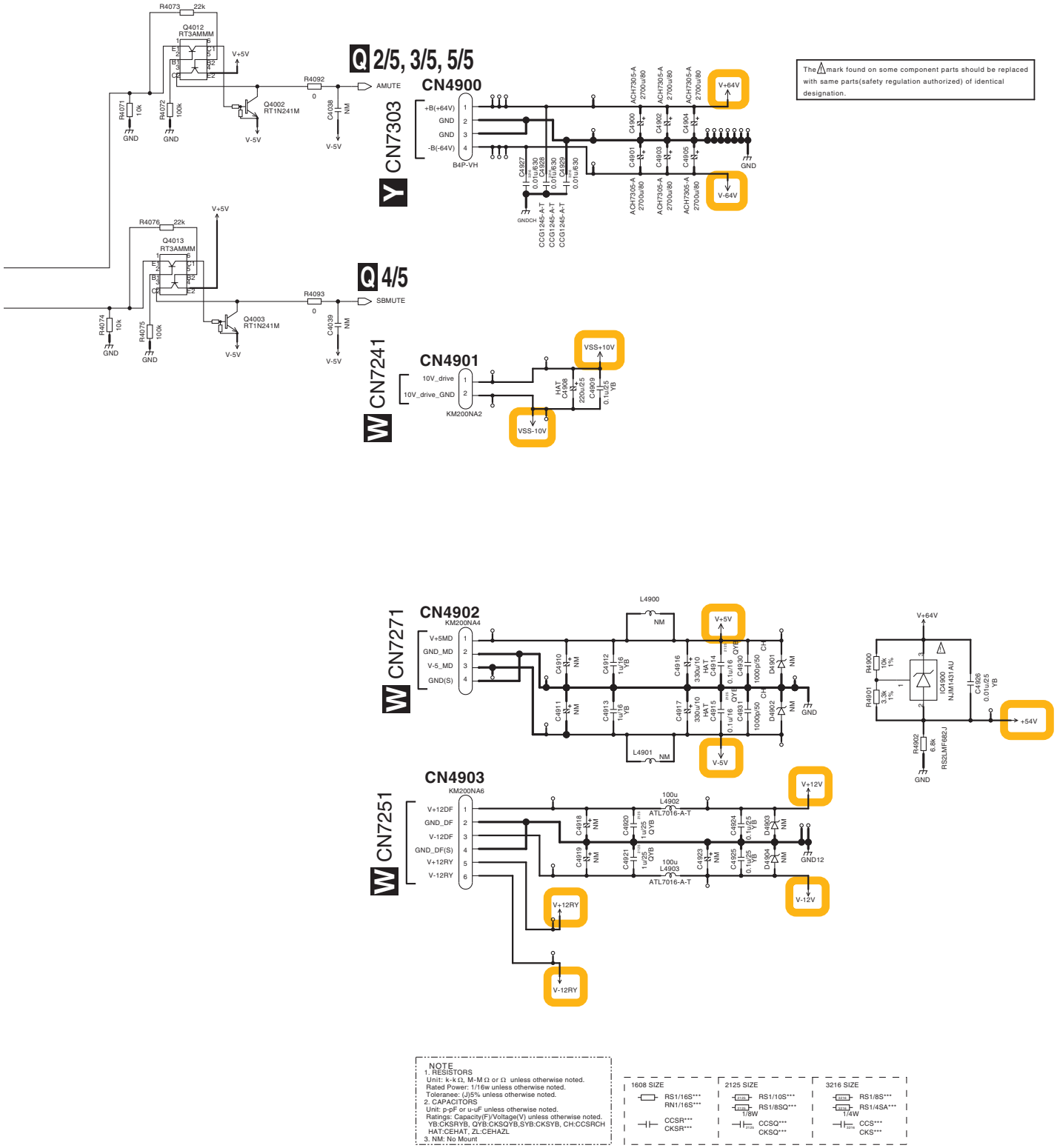


(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center)
(SB) : Audio Signal Route (Surround Back L ch)
(ZONE) : Audio Signal Route (Zone L ch)

10.21 ICEPOWER AMP (1/5)



Q 1/5 ICEPOWER AMP ASSY (AWH7017)

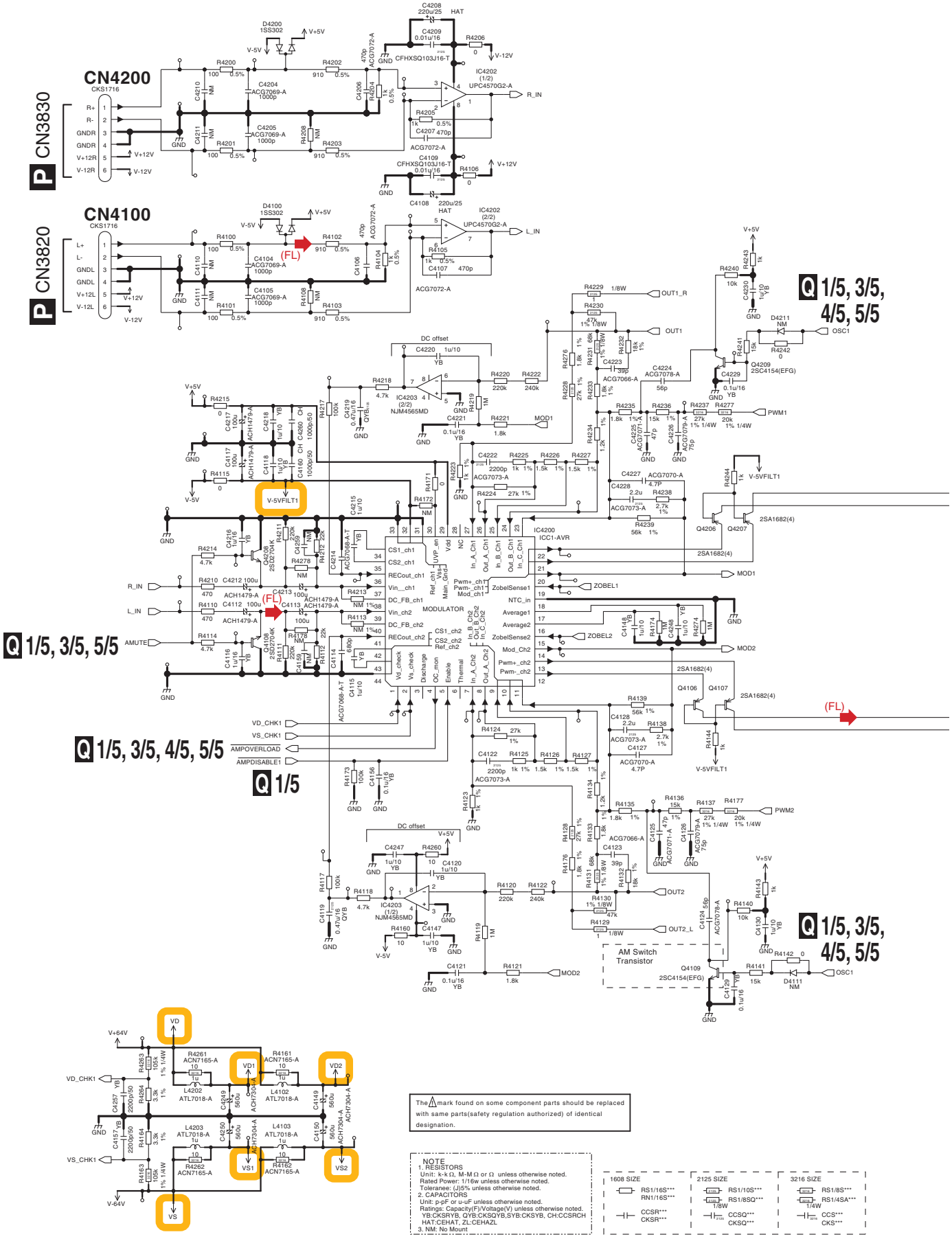


The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

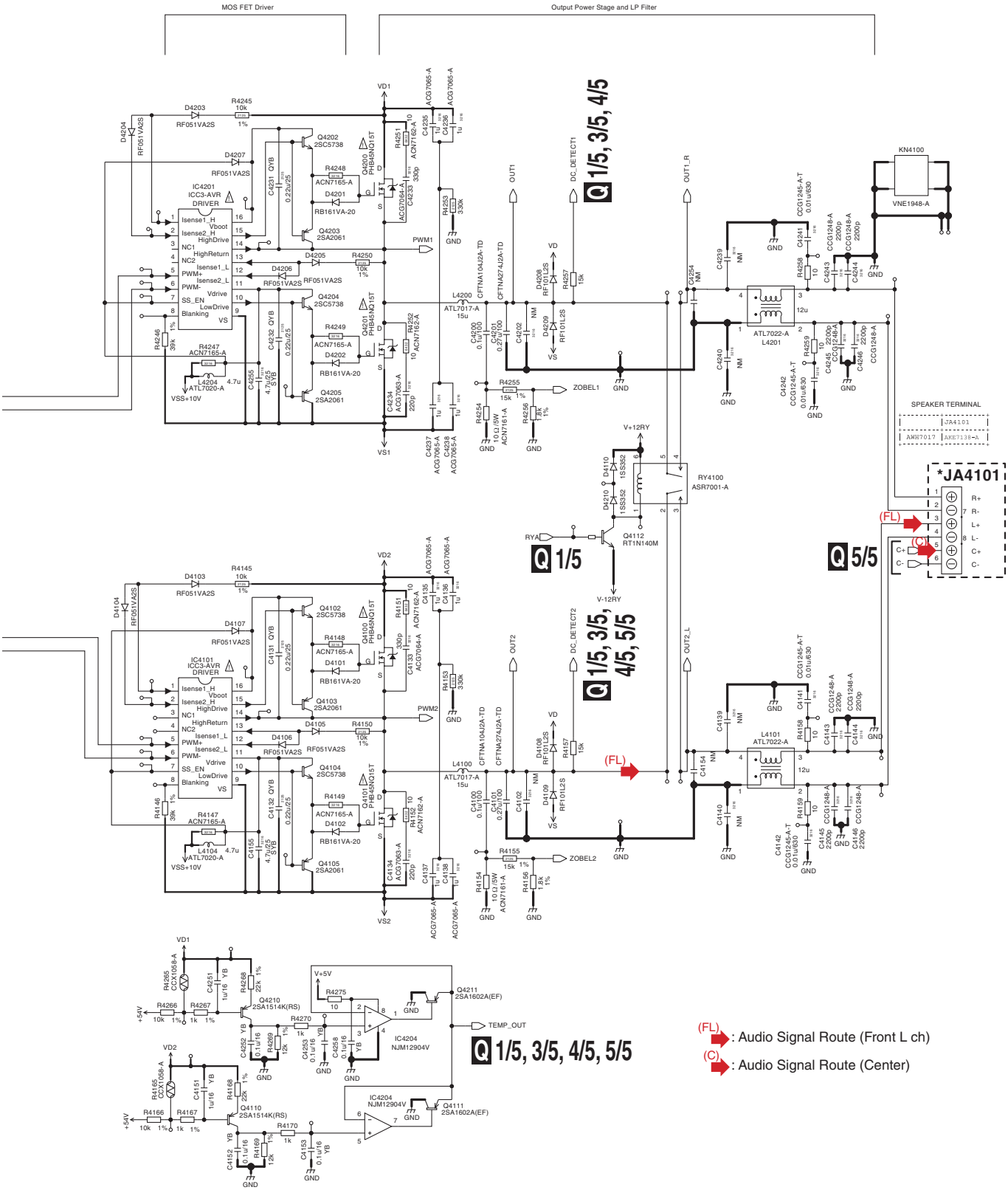
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, QYB:CKSQYB,SYB:CKSYB, CH:CCSRCH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

1608 SIZE	2125 SIZE	3216 SIZE
RS1/16S***	RS1/10S***	RS1/8S***
RN1/16S***	RS1/8SQ*** 1/8W	RS1/4SA*** 1/4W
CCSR*** CKSR***	CCSQ*** CKSQ***	CCS*** CKS***

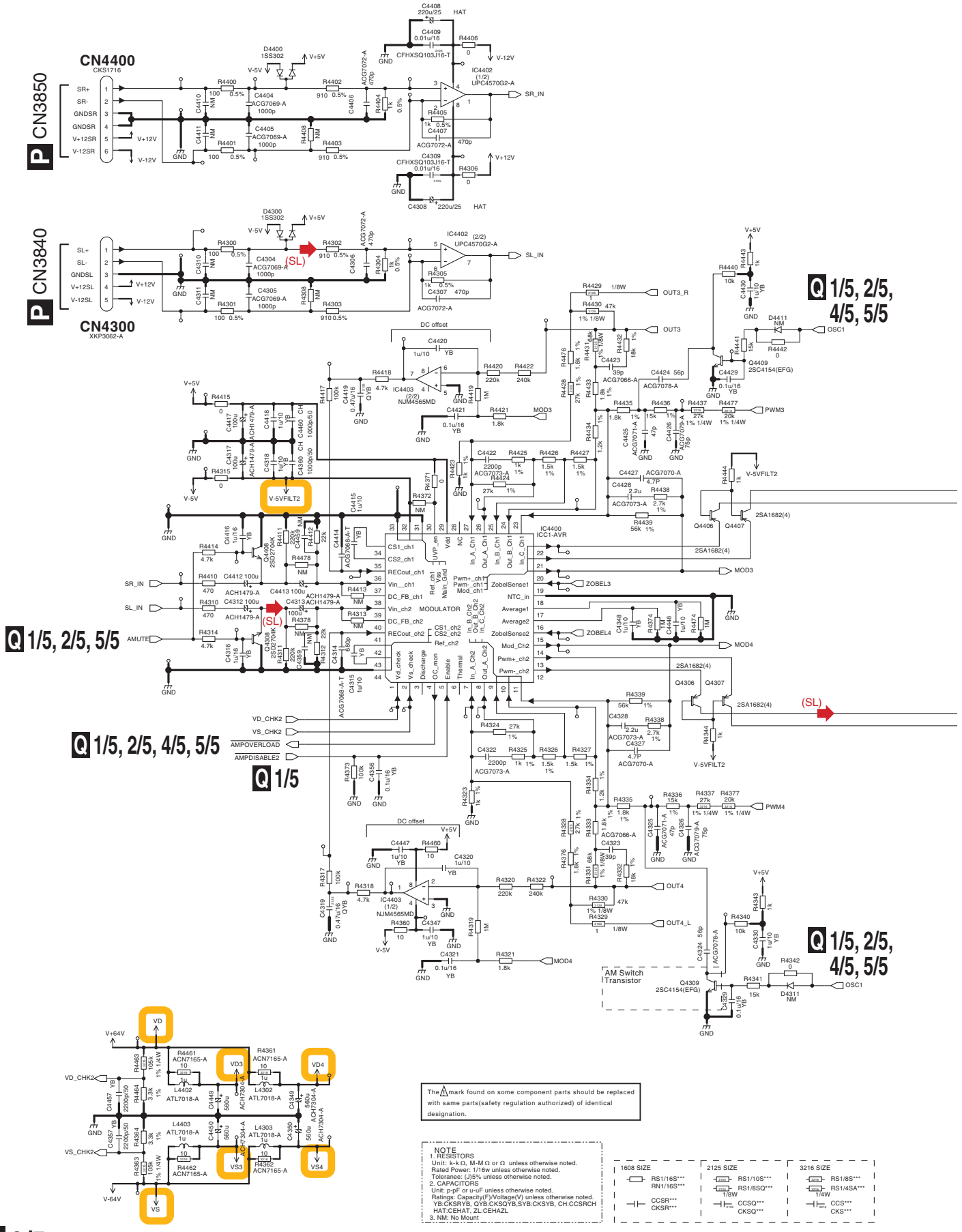
10.22 ICEPOWER AMP (2/5)

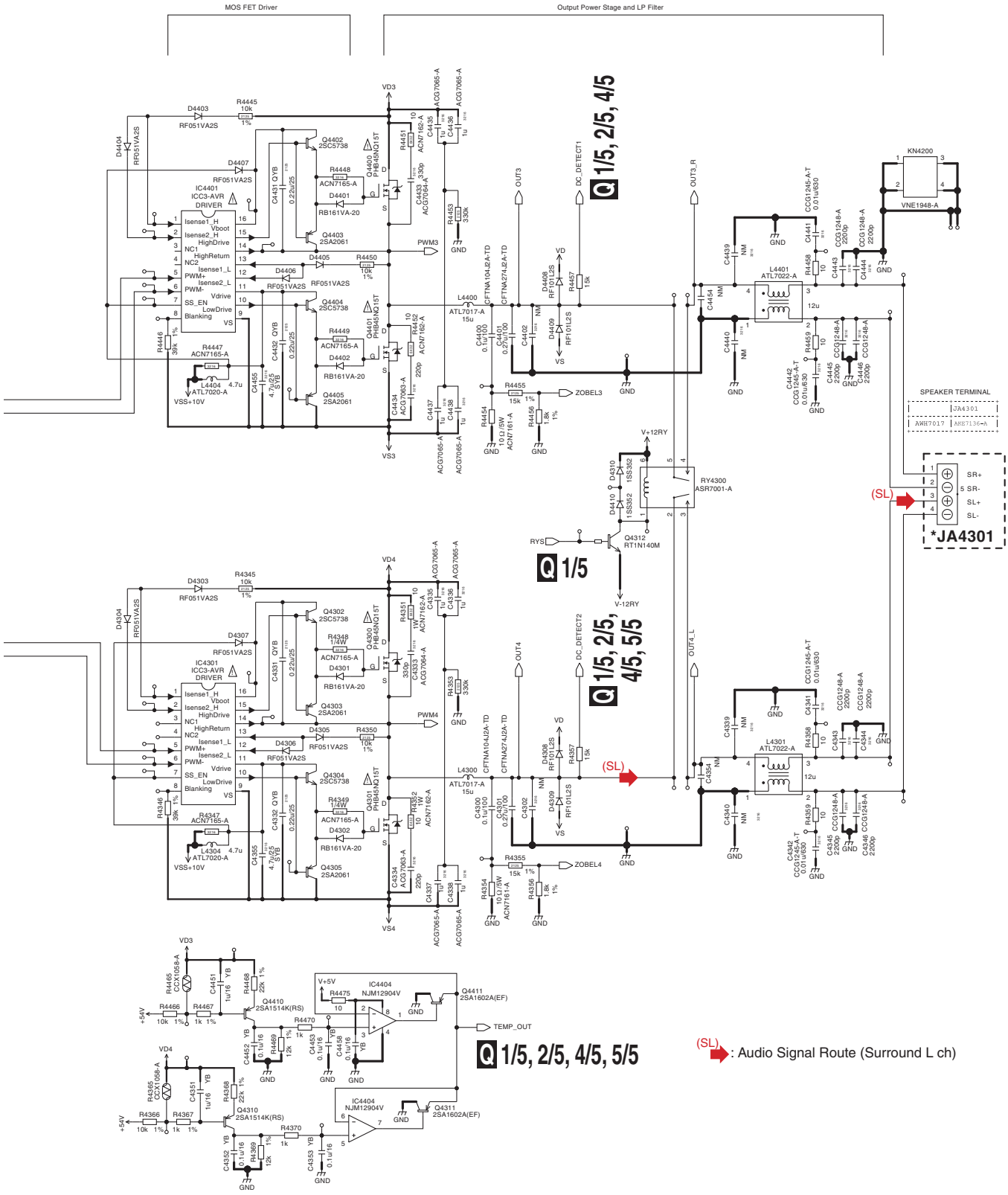


Q 2/5 ICEPOWER AMP ASSY (AWH7017)

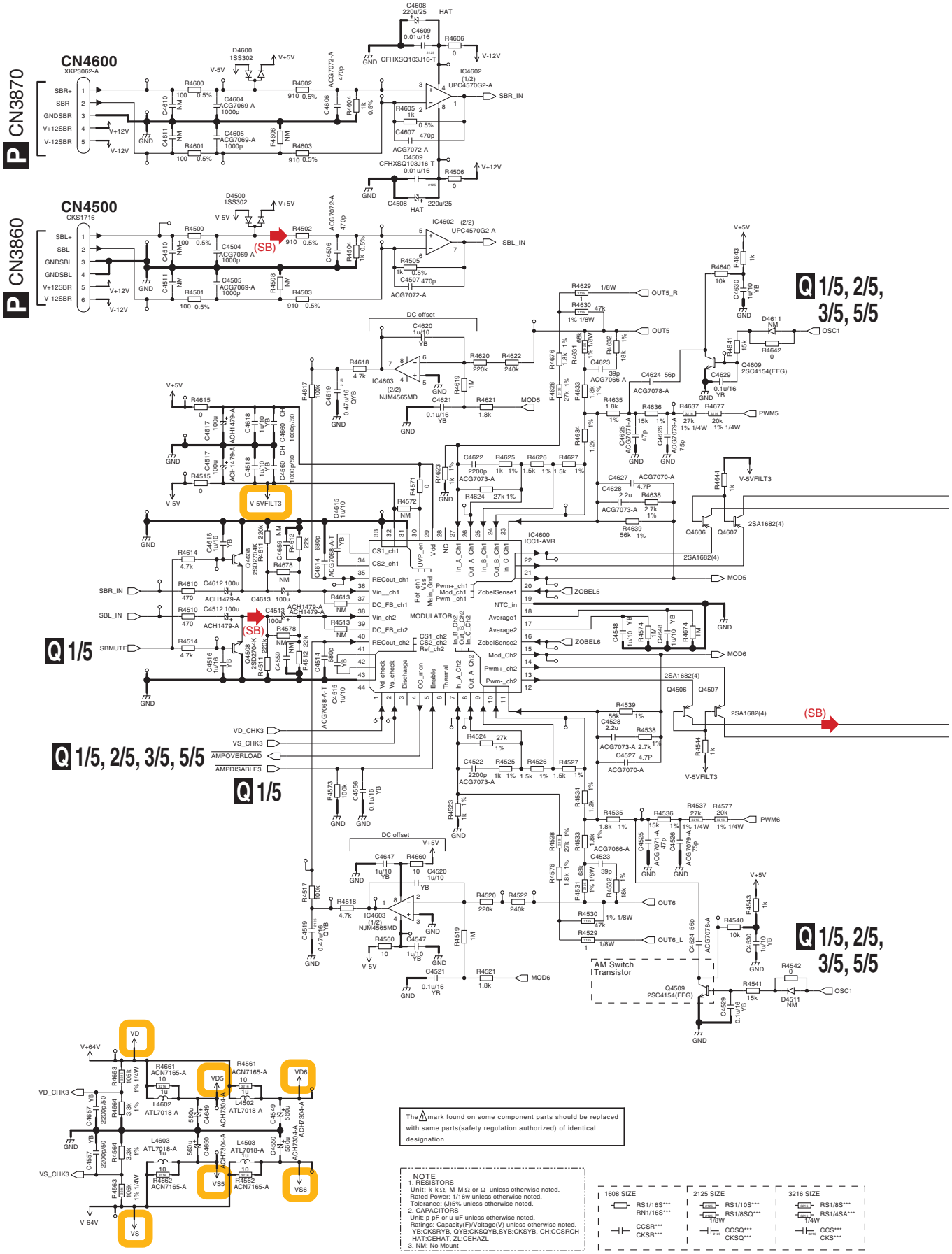


10.23 ICEPOWER AMP (3/5)

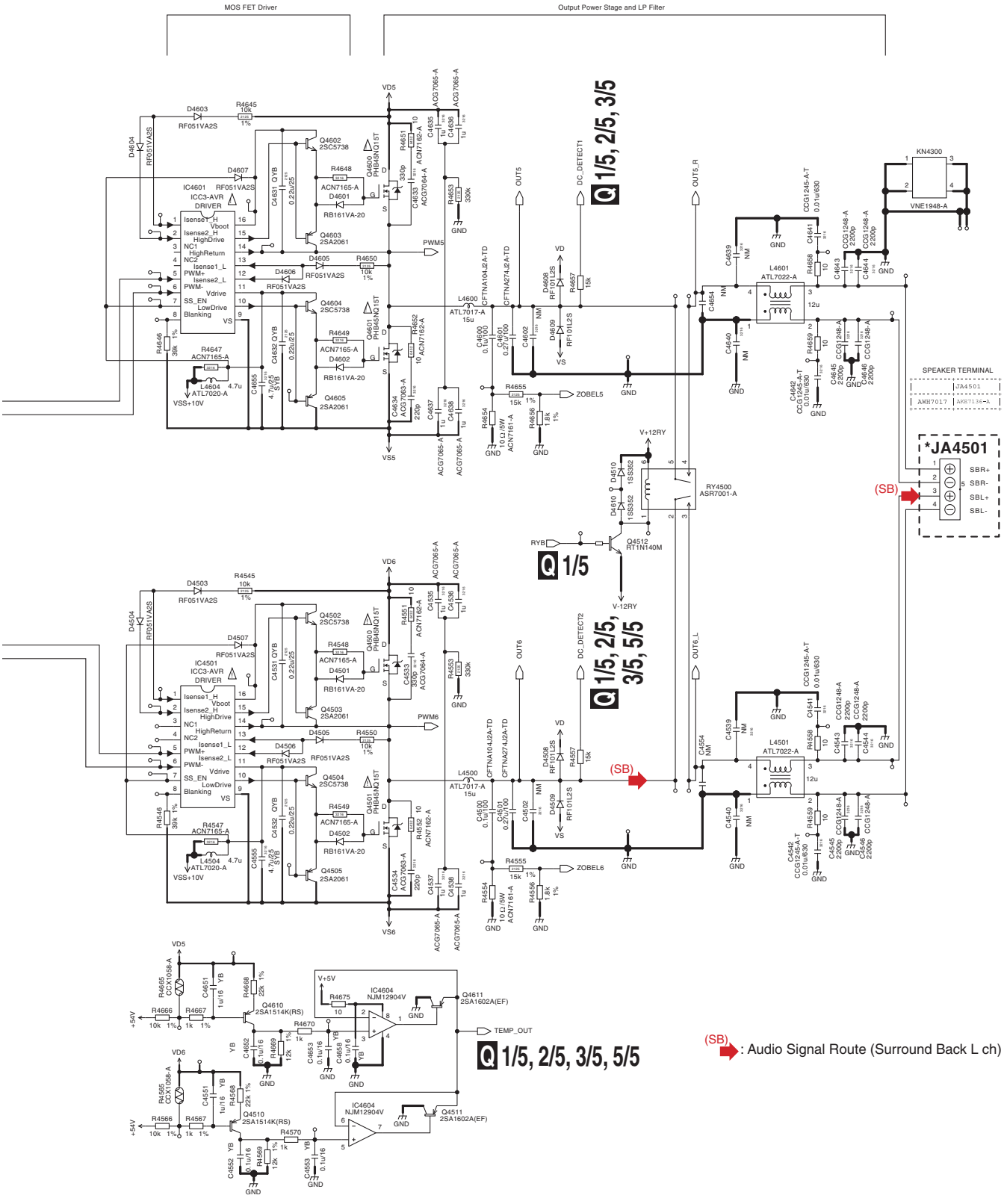



MOS FET Driver
Output Power Stage and LP Filter
Q 1/5, 2/5, 4/5
Q 1/5, 2/5, 4/5, 5/5
Q 1/5
Q 1/5, 2/5, 4/5, 5/5
(SL): Audio Signal Route (Surround L ch)
SPEAKER TERMINAL
*JA4301
SR+
SR-
SL+
SL-
KN4200
VNE1948-A
RY4300
ASR7001-A
Q4312
RT1N140M
IC4301
ICC3-AVR
DRIVER
IC4401
ICC3-AVR
DRIVER
L4300
ATL7017-A
15u
L4400
ATL7017-A
15u
L4301
ATL7022-A
L4401
ATL7022-A
L4304
ATL7020-A
L4404
ATL7020-A
4.7u
VSS+10V
VD3
VD4
VS3
VS4
V+12RY
V-12RY
RYS
OUT3
OUT4
OUT3_R
OUT4_L
DC_DETECT1
DC_DETECT2
ZOBEL3
ZOBEL4
TEMP_OUT
+5V
V+5V
IC4404
NJM12904V
Q4410
2SA1514K(RS)
Q4310
2SA1514K(RS)
Q4411
2SA1602A(EF)
Q4311
2SA1602A(EF)
GND

10.24 ICEPOWER AMP (4/5)

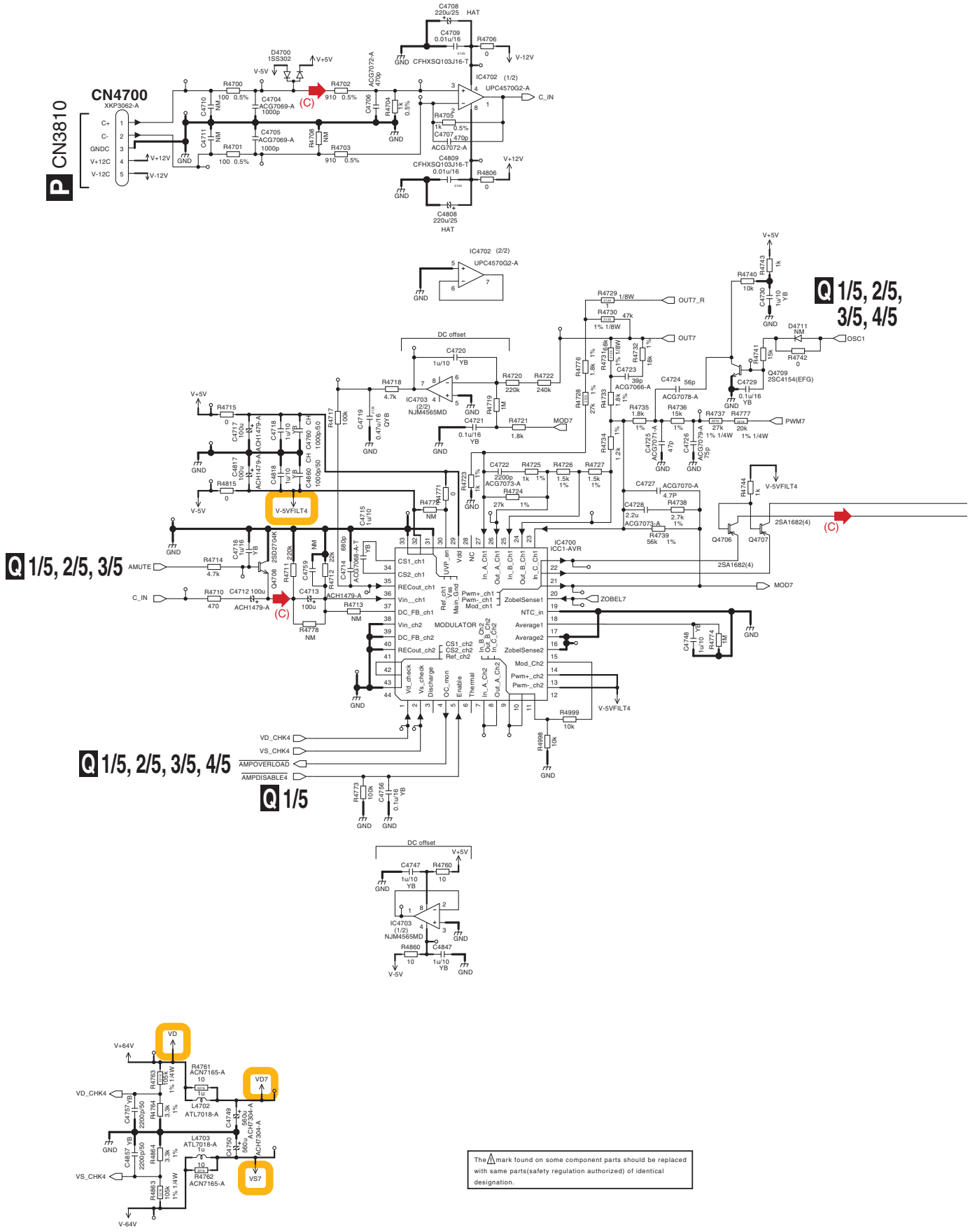


Q 4/5 ICEPOWER AMP ASSY (AWH7017)



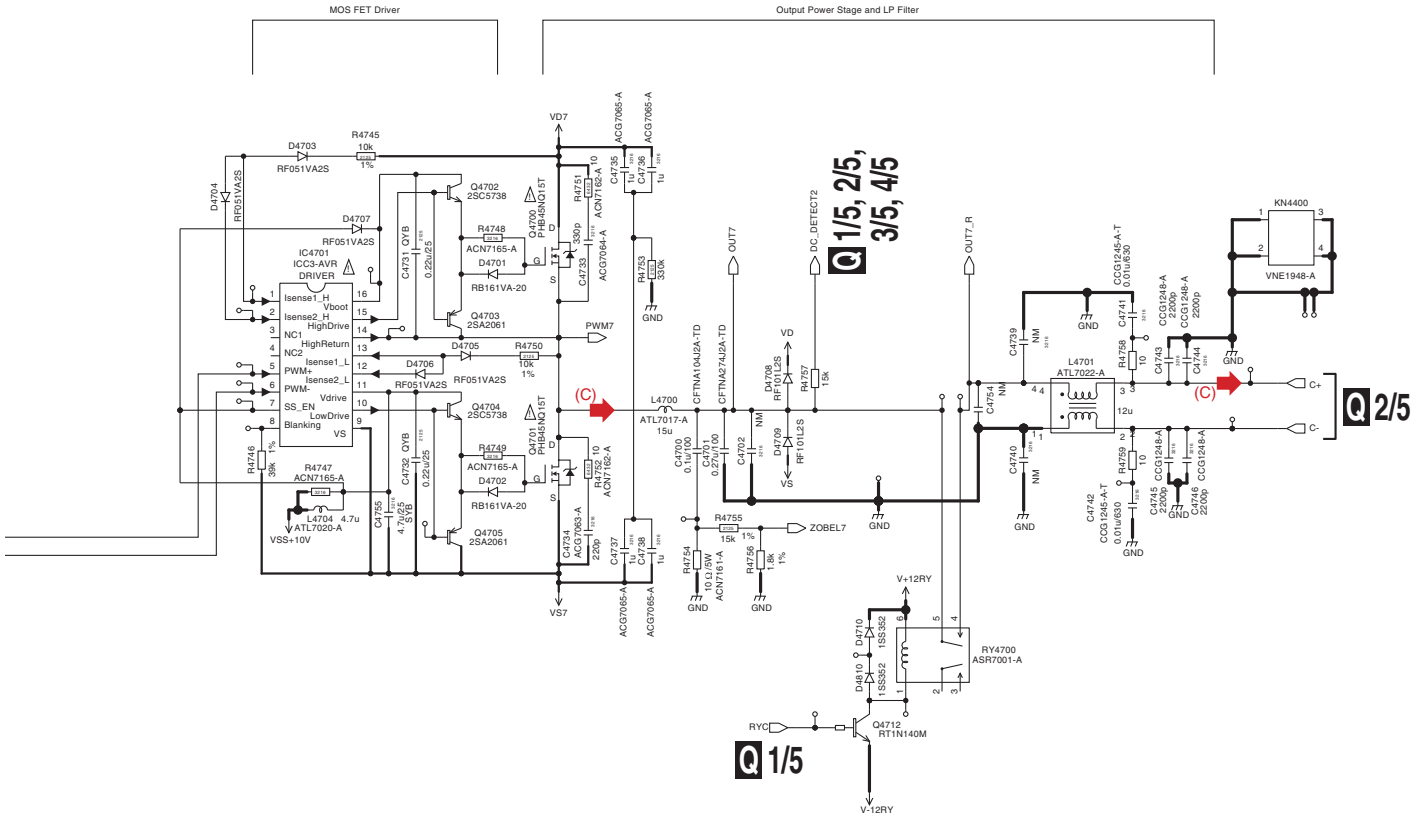
(SB) : Audio Signal Route (Surround Back L ch)

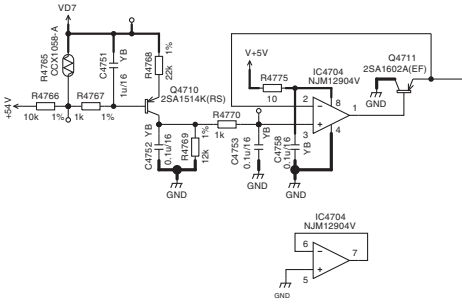
10.25 ICEPOWER AMP (5/5)



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

Q 5/5 ICEPOWER AMP ASSY (AWH7017)





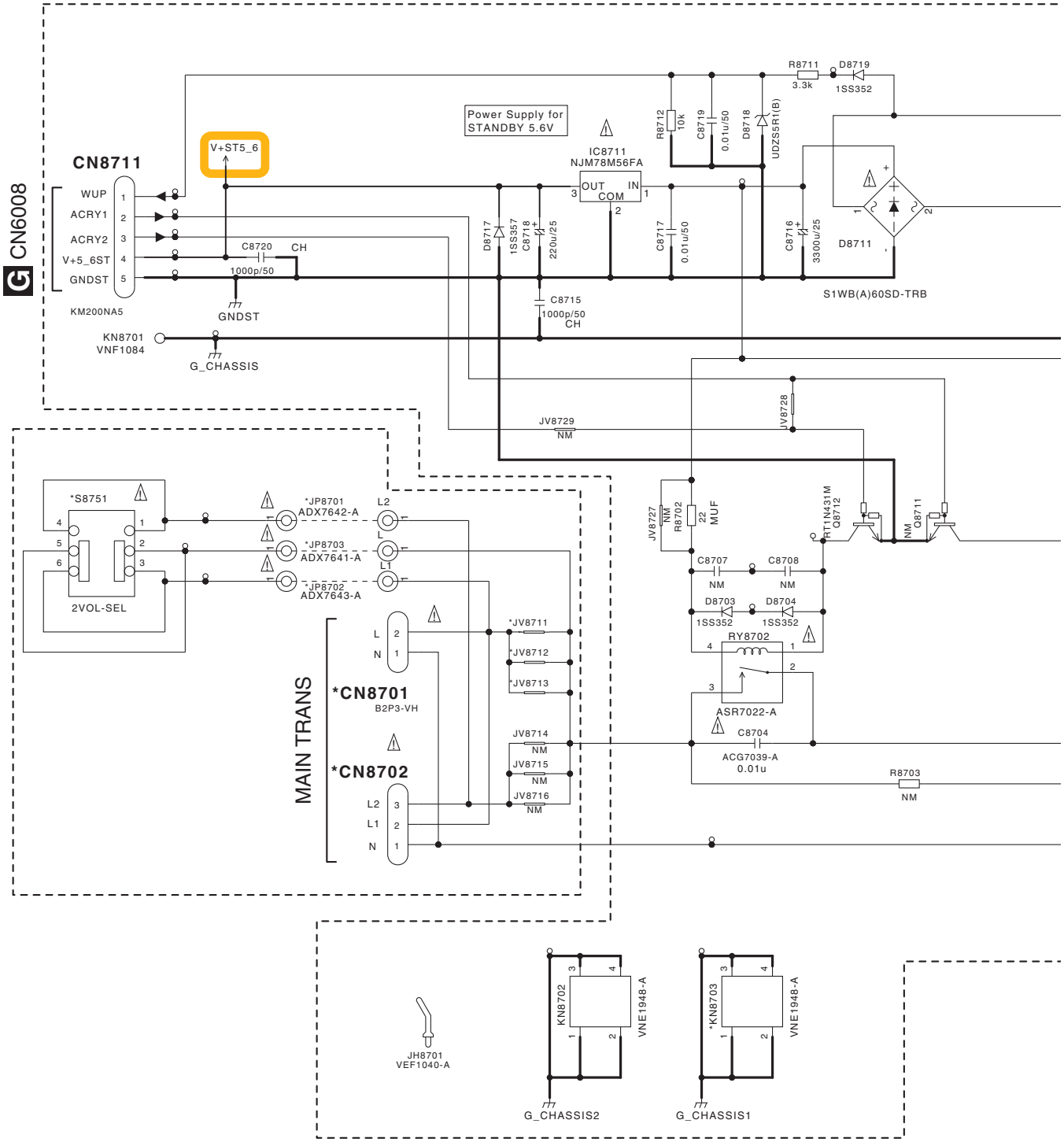
(C) : Audio Signal Route (Center)

NOTE
1. RESISTORS
Unit: k-k Ω, M-M Ω 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.
YB:CKSRYB, QYB:CKSQYB,SYB:CKSYB, CH:CCSRCH
HAT:CEHAT, ZL:CEHAZL
3. NM: No Mount

1608 SIZE	2125 SIZE	3216 SIZE
RS1/16S*** RN1/16S***	RS1/10S***	RS1/8S***
	RS1/8SQ*** 1/8W	RS1/4SA*** 1/4W
CCSR*** CKSR***	CCSQ*** CKSQ***	CCS*** CKS***

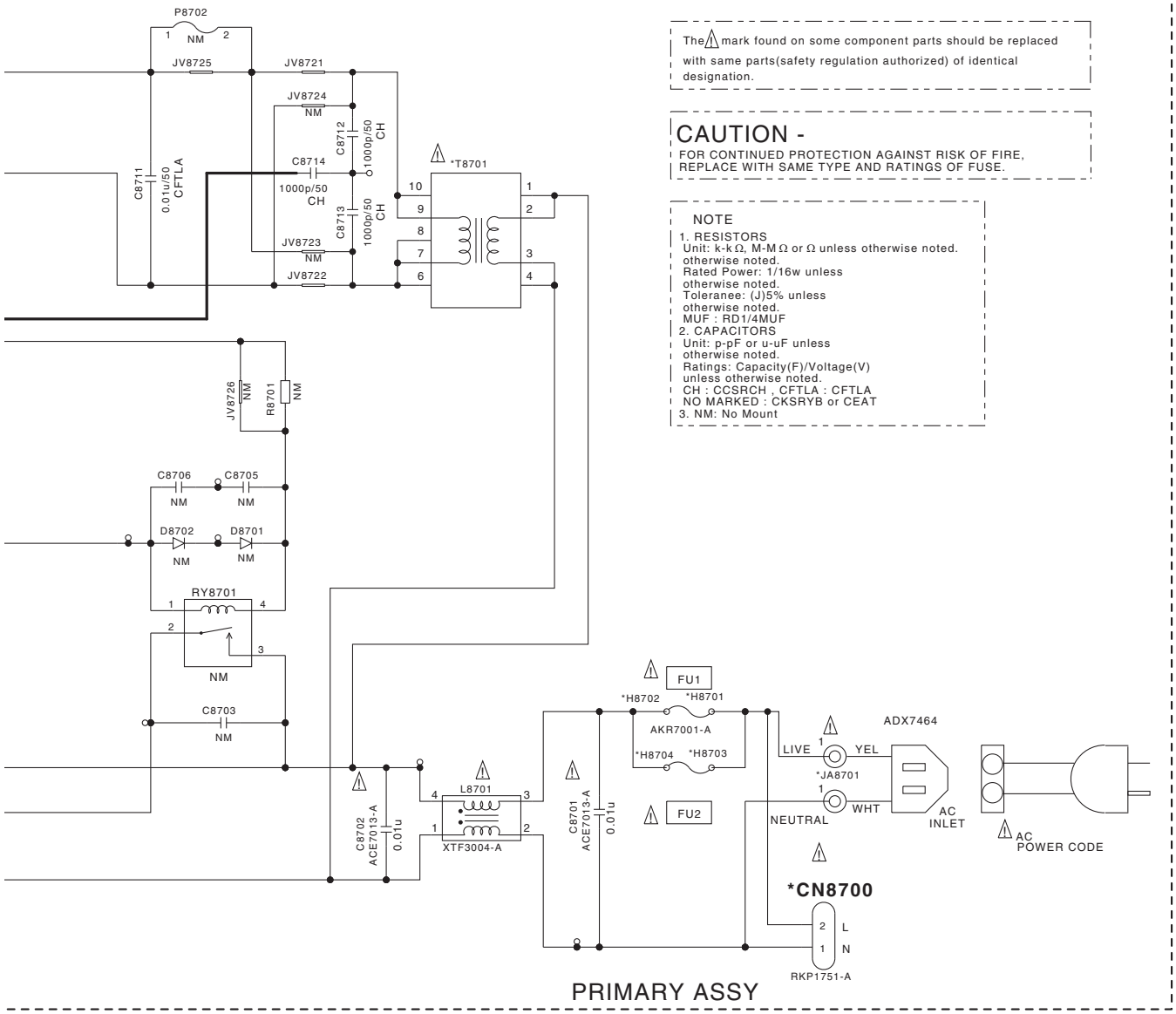
10.26 PRIMARY ASSY

	AWX9166
CN8701	NM
CN8702	B3P5-VH
JP8701	NM
JP8702	NM
JP8703	NM
JP8701_1	NM
JP8702_1	NM
JP8703_1	NM
JV8711	
JV8712	
JV8713	
S8751	NM



PRIMARY ASSY (AWX9166)

	AWX9166
CN8700	NM
H8701	AKR7001-A
H8702	AKR7001-A
H8703	NM
H8704	NM
JA8701	ADX7464-A
JA8701_1	ADX7464-A_1
KN8703	VNE1948-A
T8701	ATT7040-A



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

CAUTION -

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

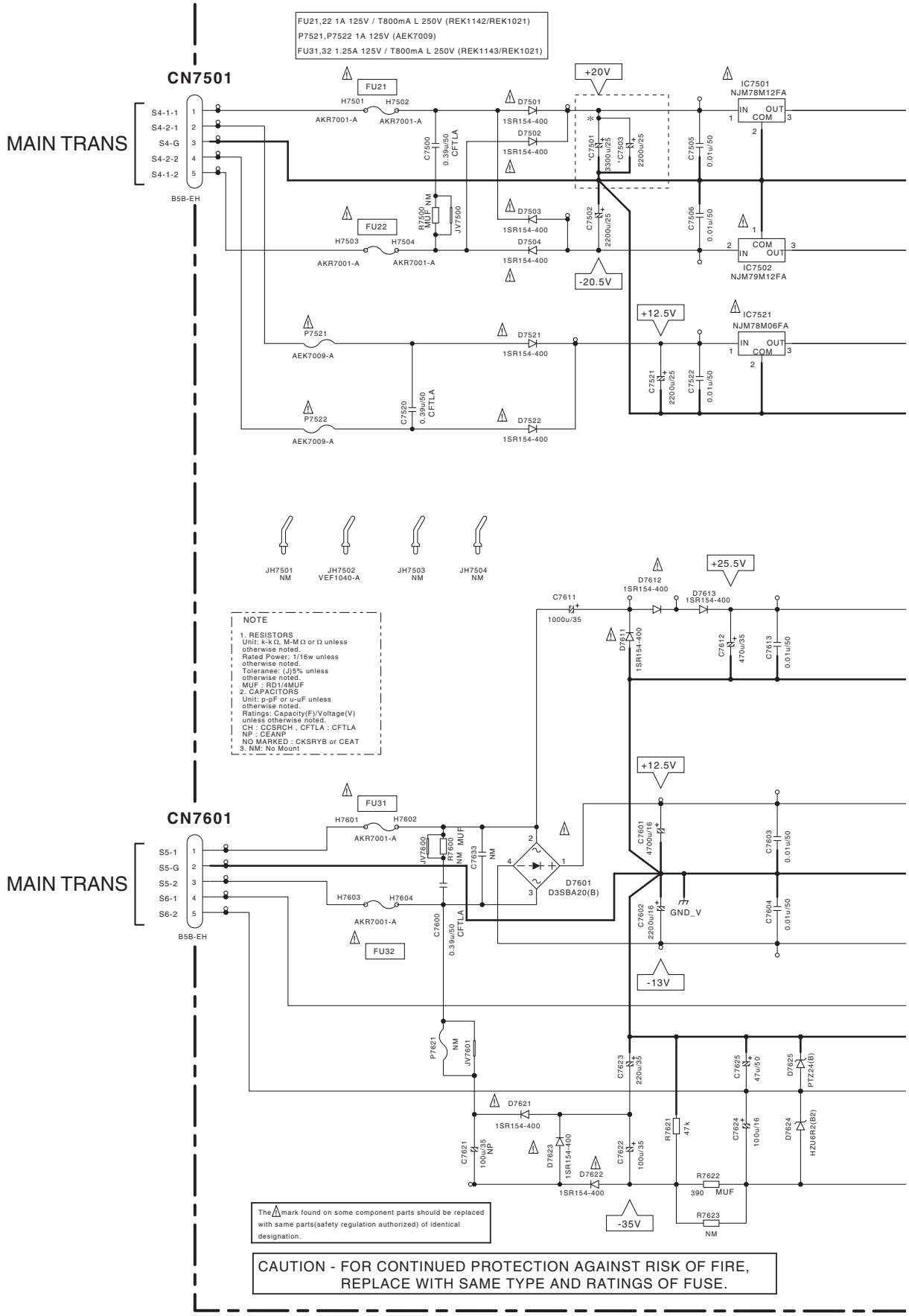
NOTE

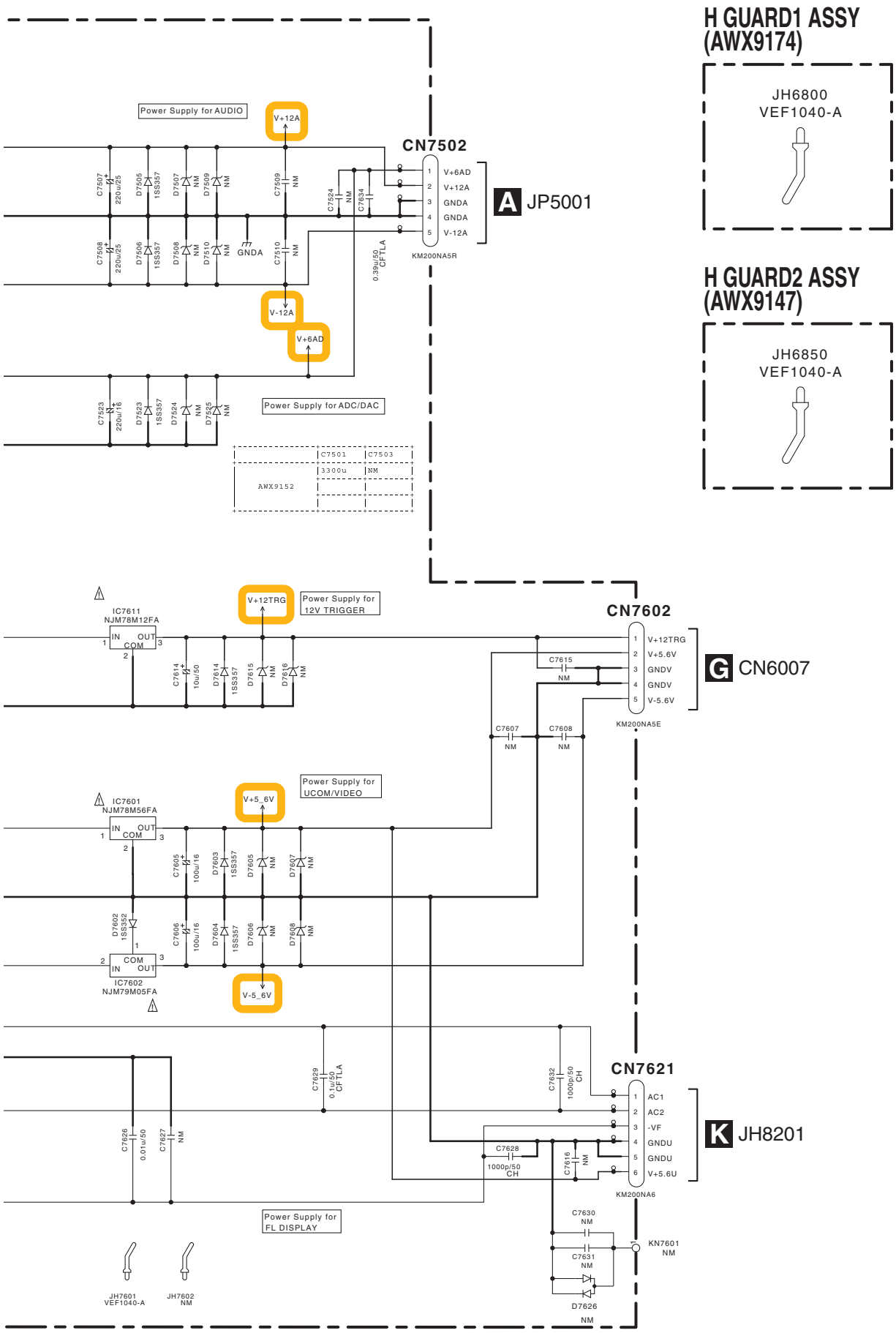
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   otherwise noted.
   Rated Power: 1/16w unless otherwise noted.
   Toleranee: (J)5% unless otherwise noted.
   MUF : RD1/4MUF
2. CAPACITORS
   Unit: p-pF or u-uF unless otherwise noted.
   Ratings: Capacity(F)/Voltage(V) unless otherwise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

10.27 REG ASSY

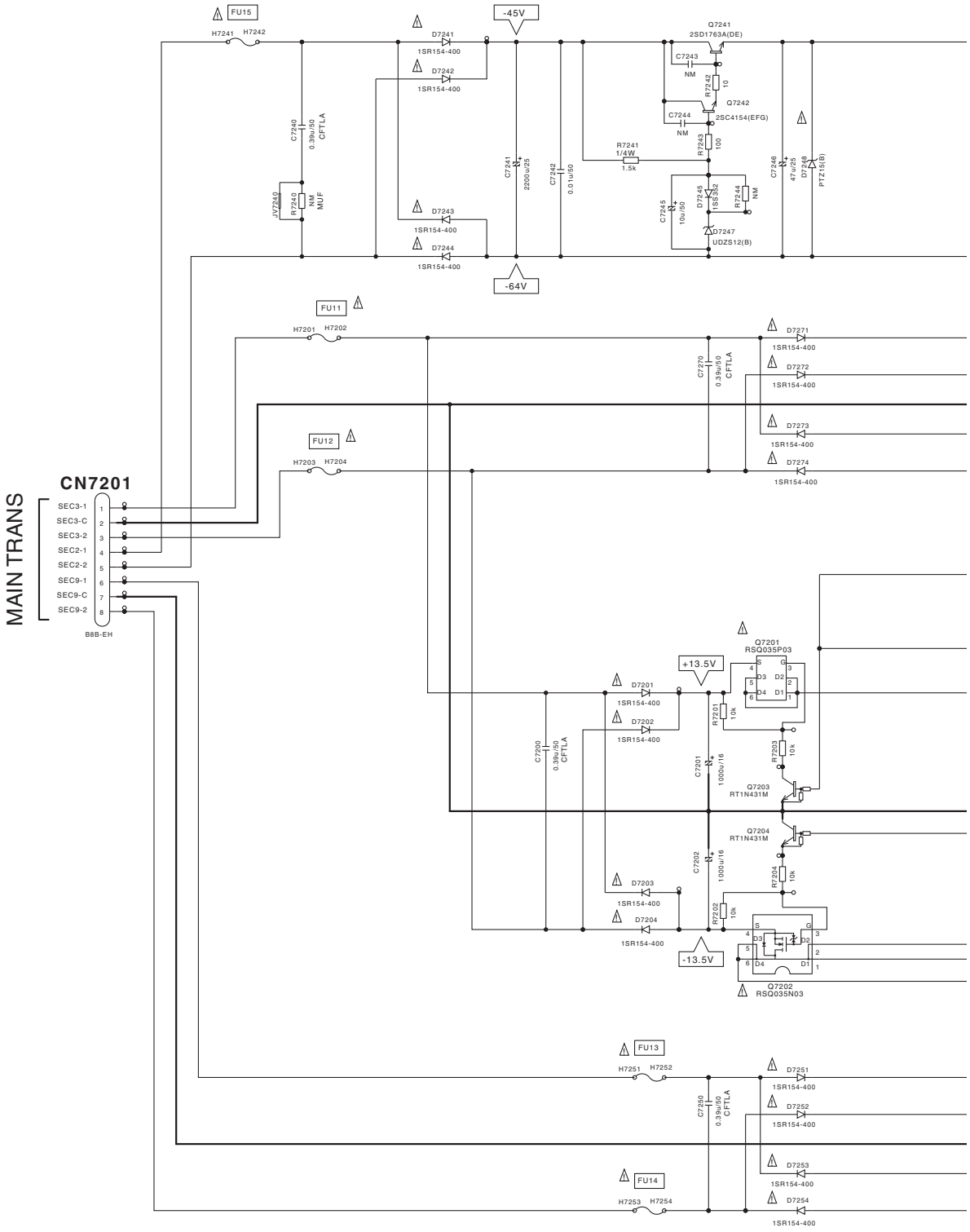
V REG ASSY (AWX9152)

CAUTION:FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.REPLACE ONLY WITH SAME TYPE NO.491001 MFD,BY LITTELFUSE INC.FOR P7521 and P7522.




H GUARD1 ASSY
(AWX9174)
JH6800
VEF1040-A
H GUARD2 ASSY
(AWX9147)
JH6850
VEF1040-A
Power Supply for AUDIO
V+12A
CN7502
V+6AD
V+12A
GNDA
GNDA
V-12A
KM200NA5R
A JP5001
V-12A
V+6AD
Power Supply for ADC/DAC
AWX9152
C7501
C7503
3300u
NM
V+12TRG
Power Supply for
12V TRIGGER
IC7611
NJM78M12FA
CN7602
V+12TRG
V+5.6V
GNDV
GNDV
V-5.6V
KM200NA5E
G CN6007
Power Supply for
UCOM/VIDEO
V+5_6V
IC7601
NJM78M56FA
IC7602
NJM79M05FA
V-5_6V
CN7621
AC1
AC2
-VF
GNDU
GNDU
V+5.6U
KM200NA6
K JH8201
Power Supply for
FL DISPLAY
KN7601
NM
JH7601
VEF1040-A
JH7602
NM

10.28 ICE REG ASSY

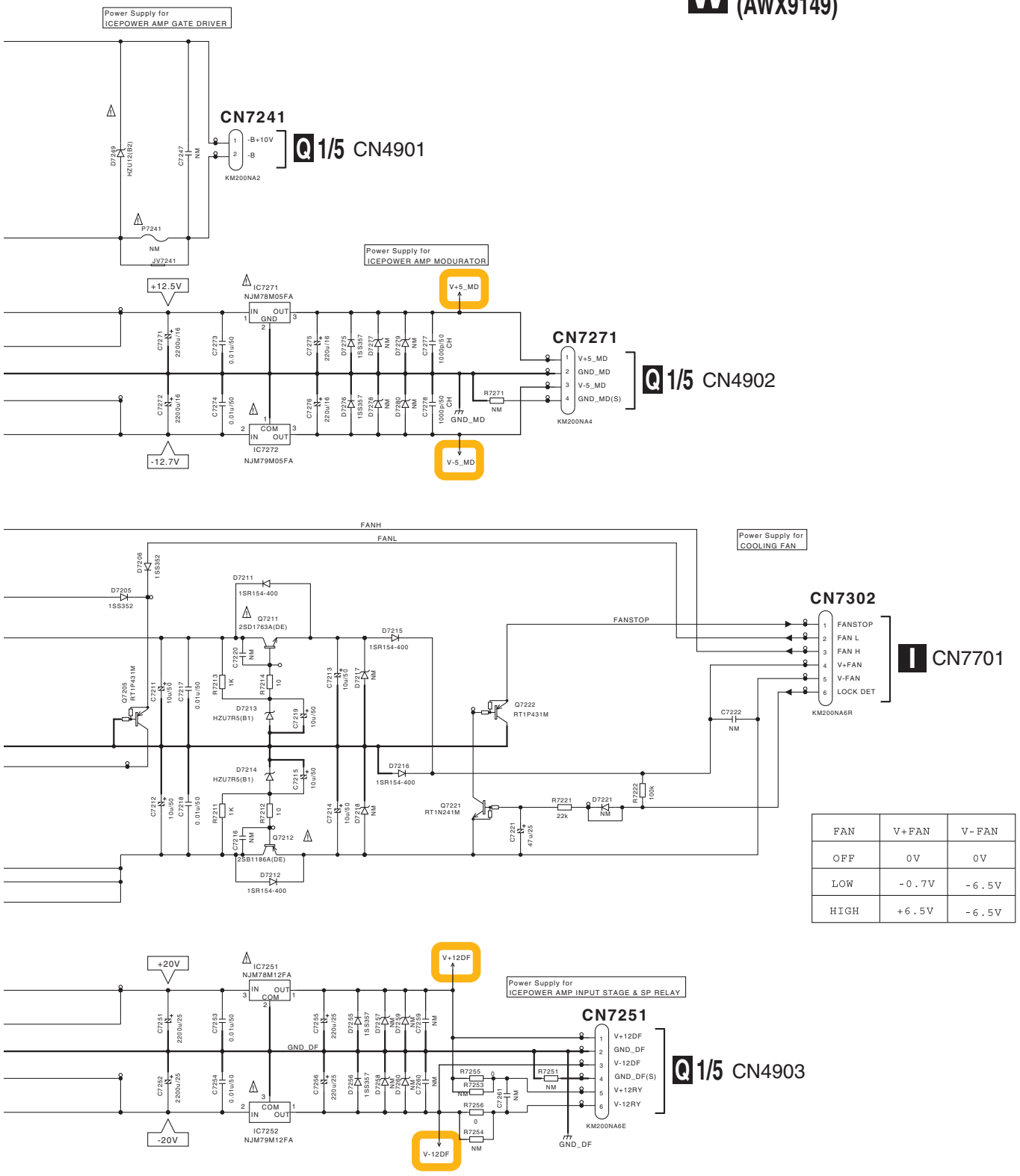


NOTE

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.
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

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

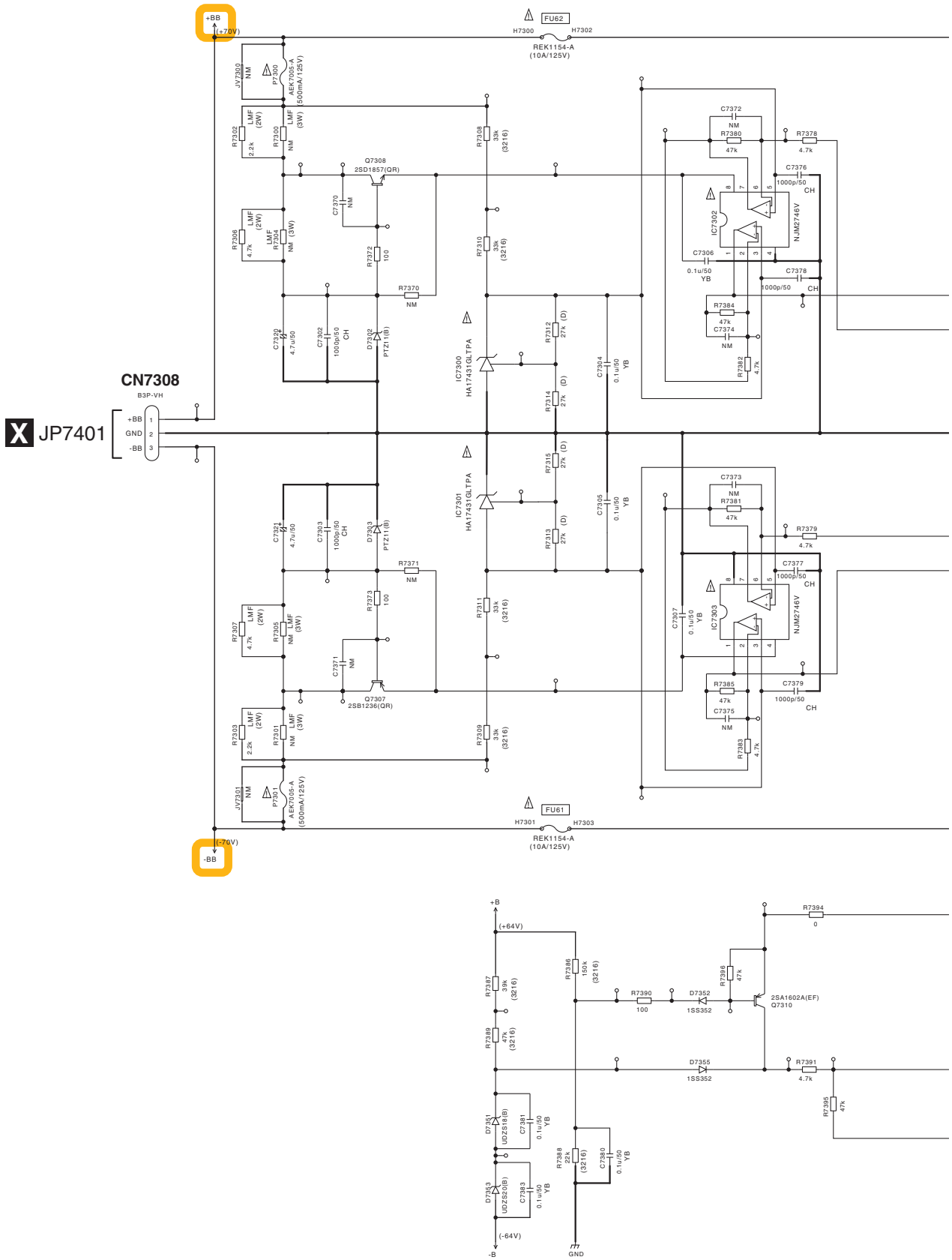
W ICE REG ASSY (AWX9149)



FAN	V+FAN	V-FAN
OFF	0V	0V
LOW	-0.7V	-6.5V
HIGH	+6.5V	-6.5V

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

10.29 B REG ASSY



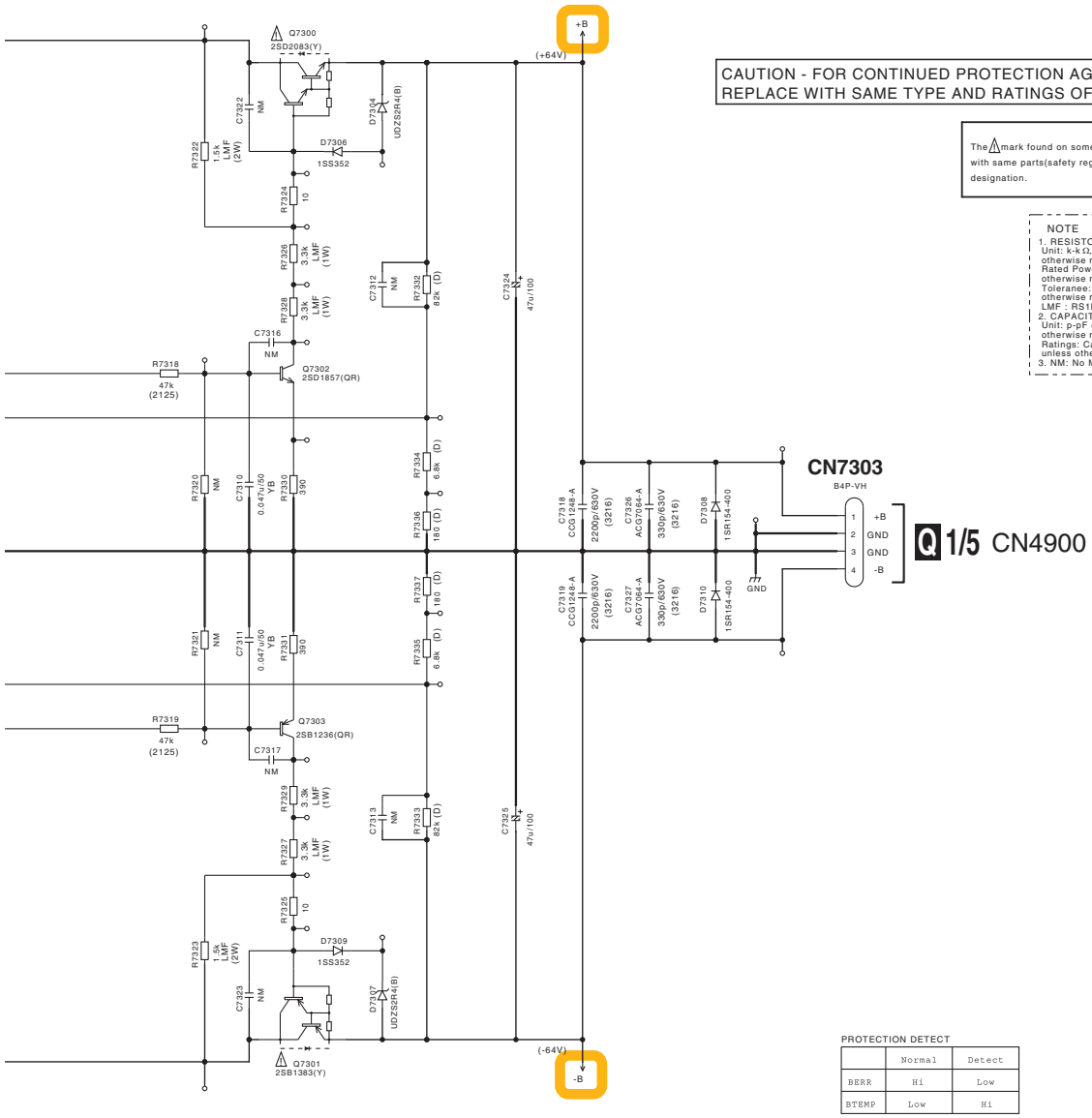
Y B REG ASSY (AWX9150)

CAUTION:FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.REPLACE ONLY WITH SAME TYPE NO.491,500 MFD,BY LITTELFUSE INC.FOR P7300 and P7301.

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

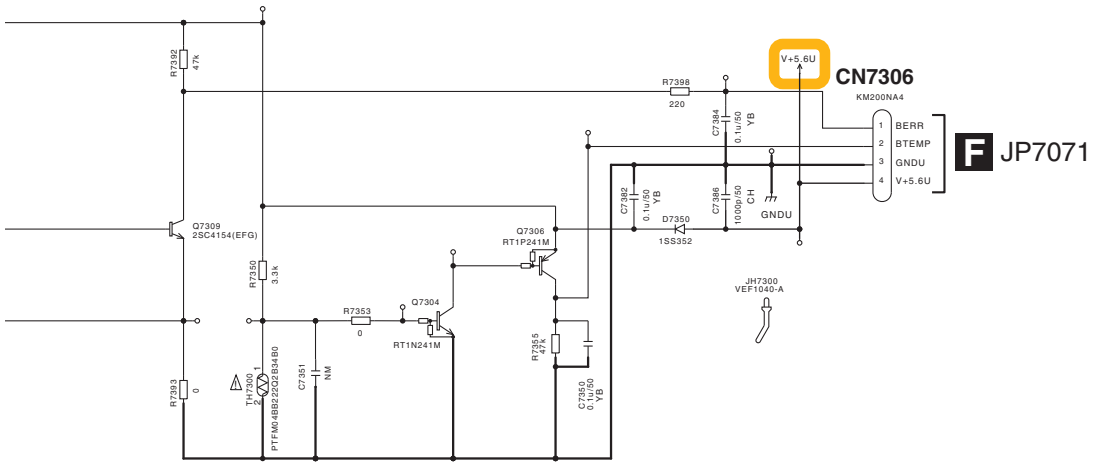
The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

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



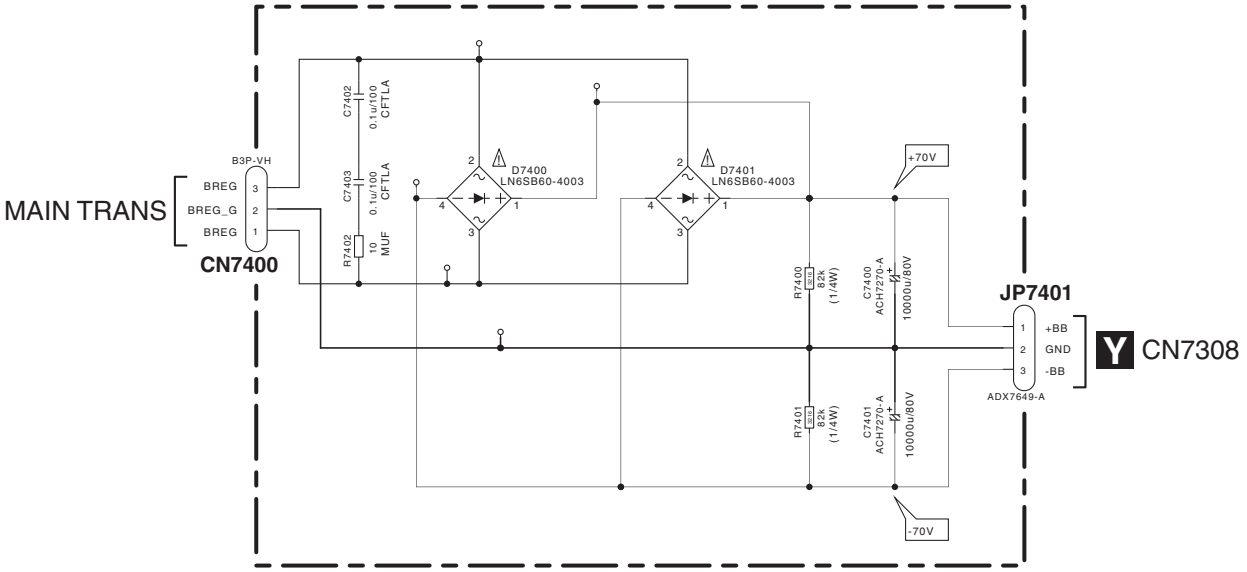
PROTECTION DETECT

	Normal	Detect
BERR	Hi	Low
BTEMP	Low	Hi

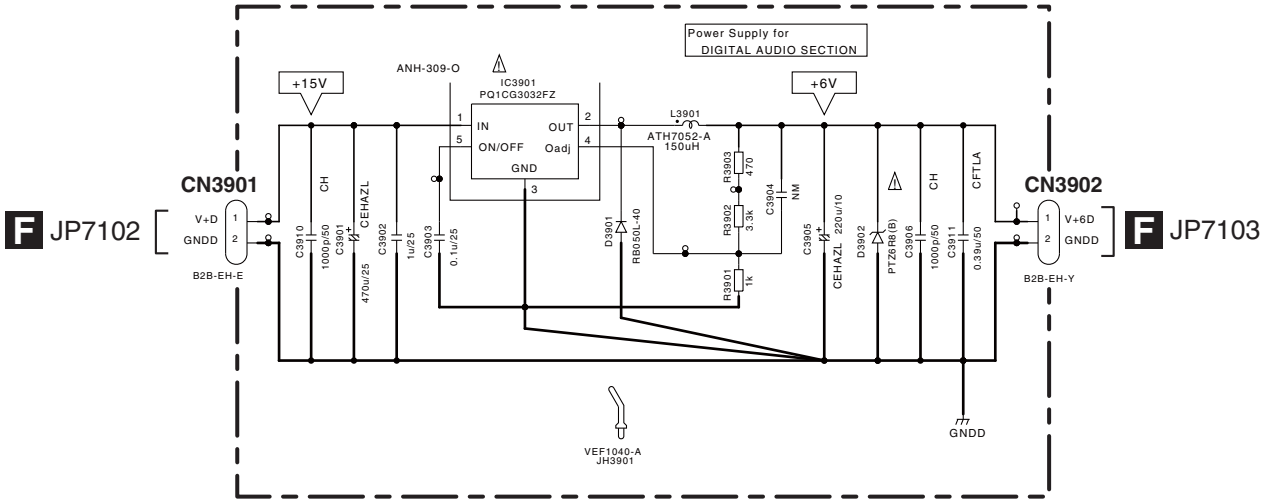


10.30 B DIODE, DCDC, and HDMI RECT ASSYS

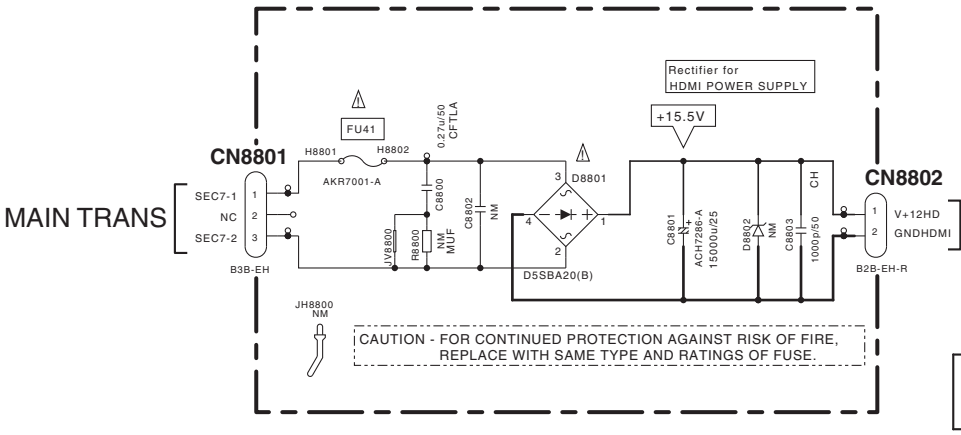
X B DIODE ASSY (AWX9171)



Z DCDC ASSY (AWX9138)



AA HDMI RECT ASSY (AWX9156)



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.
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

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

X Z AA

X Z AA

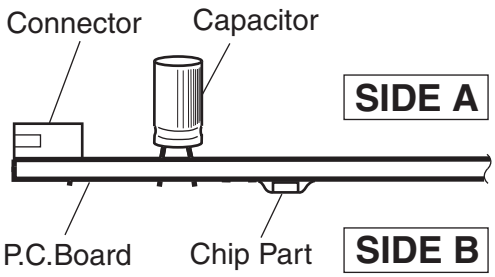
11. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

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

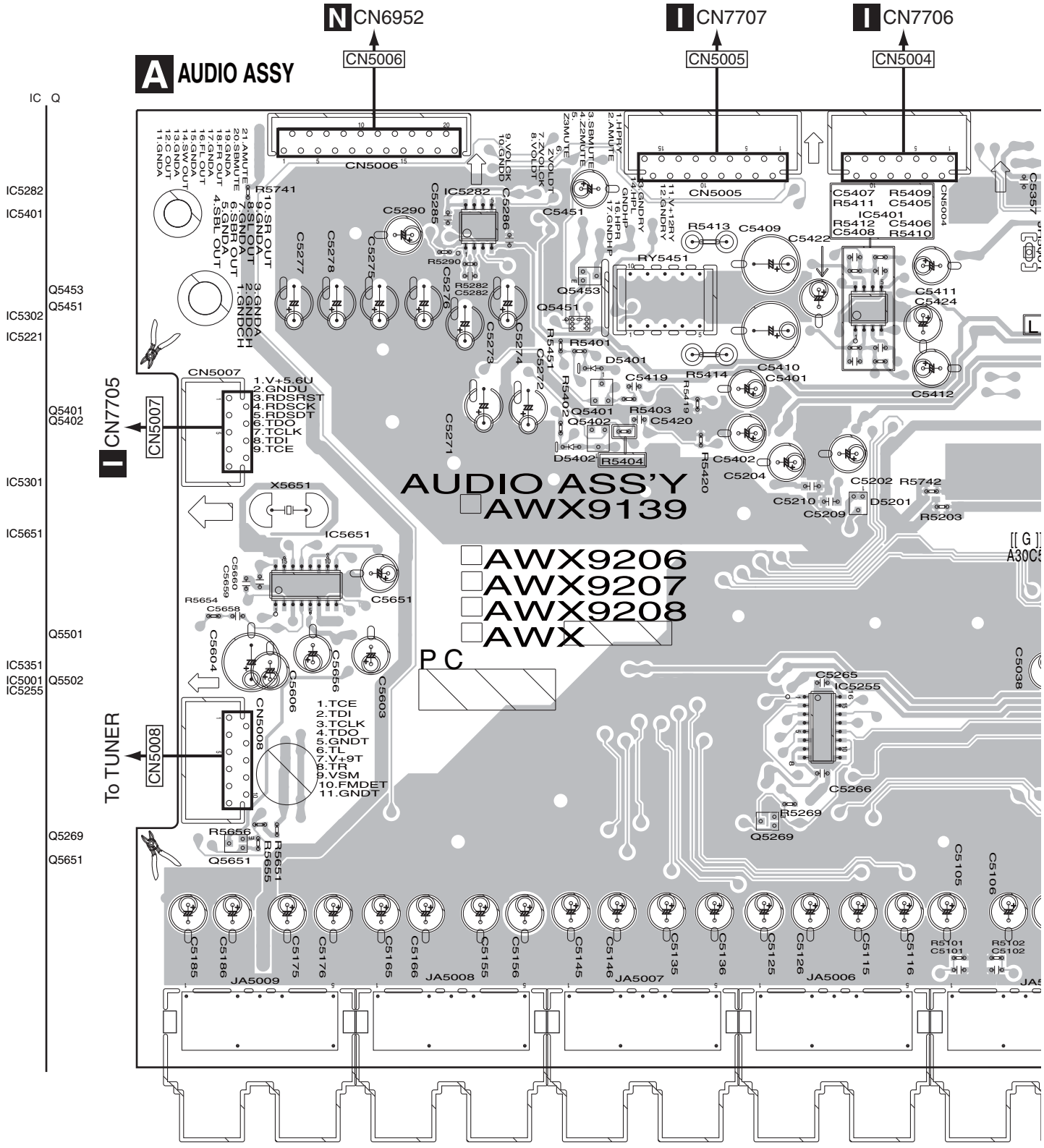
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

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

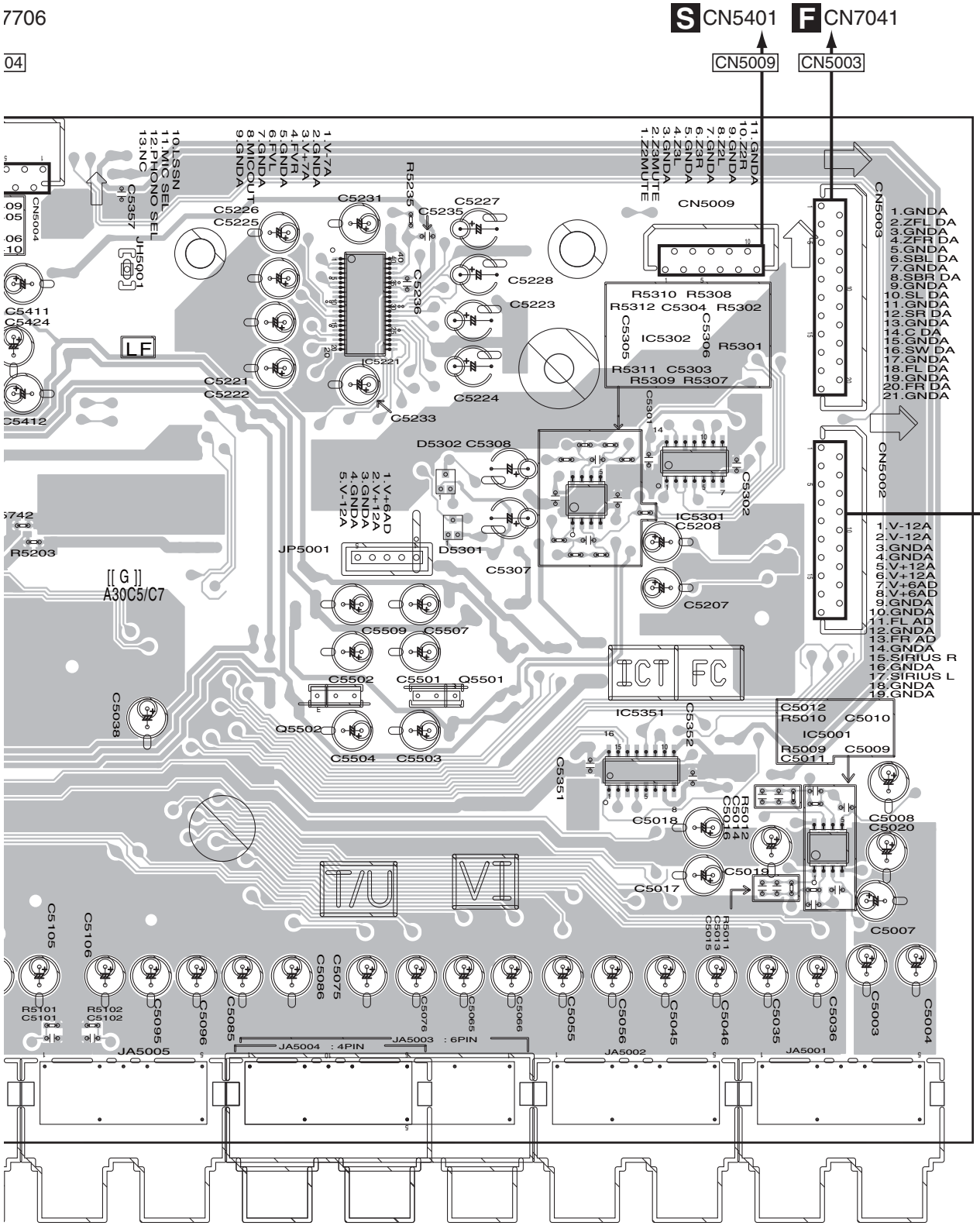


11.1 AUDIO ASSY

SIDE A



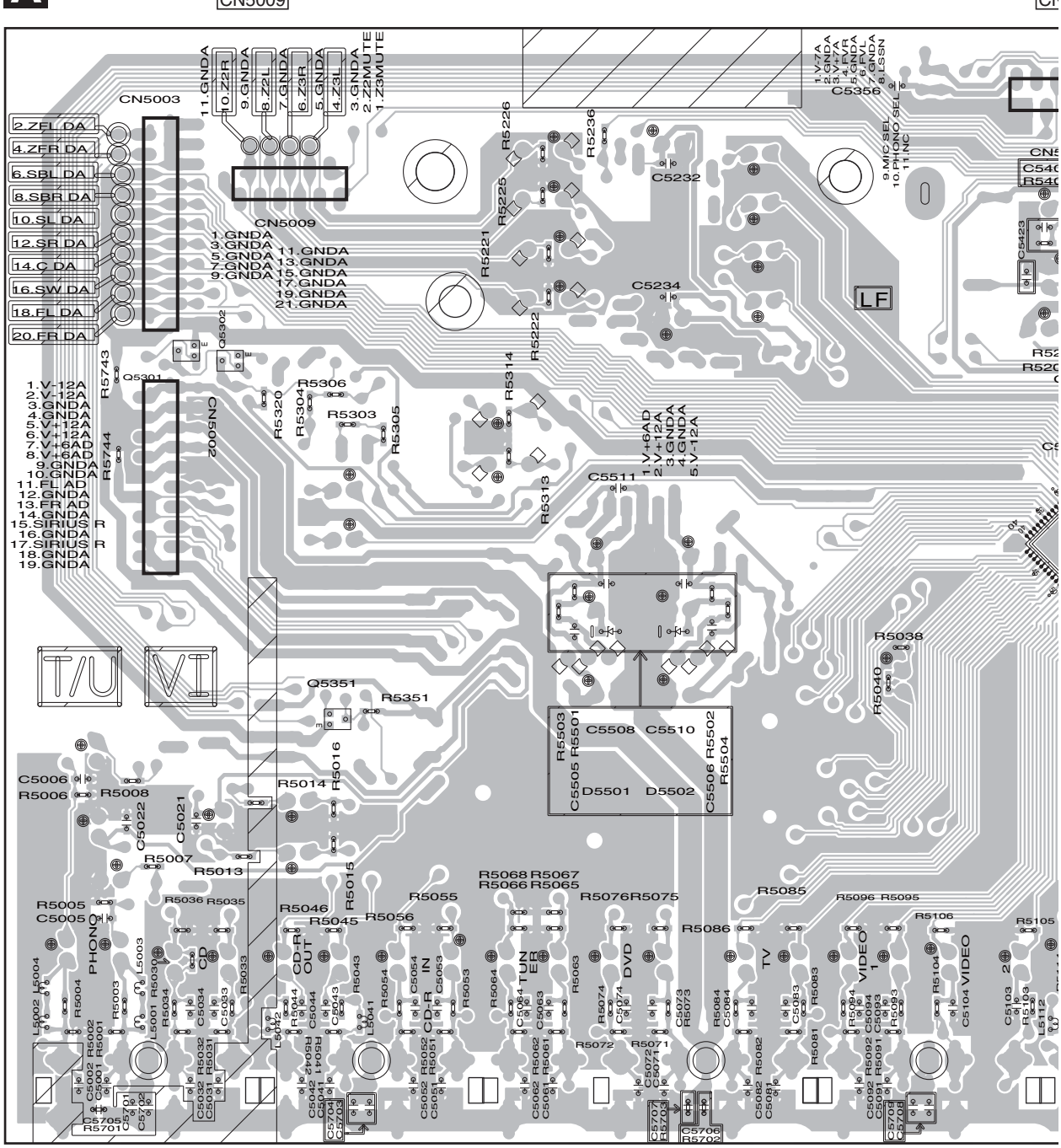
SIDE A



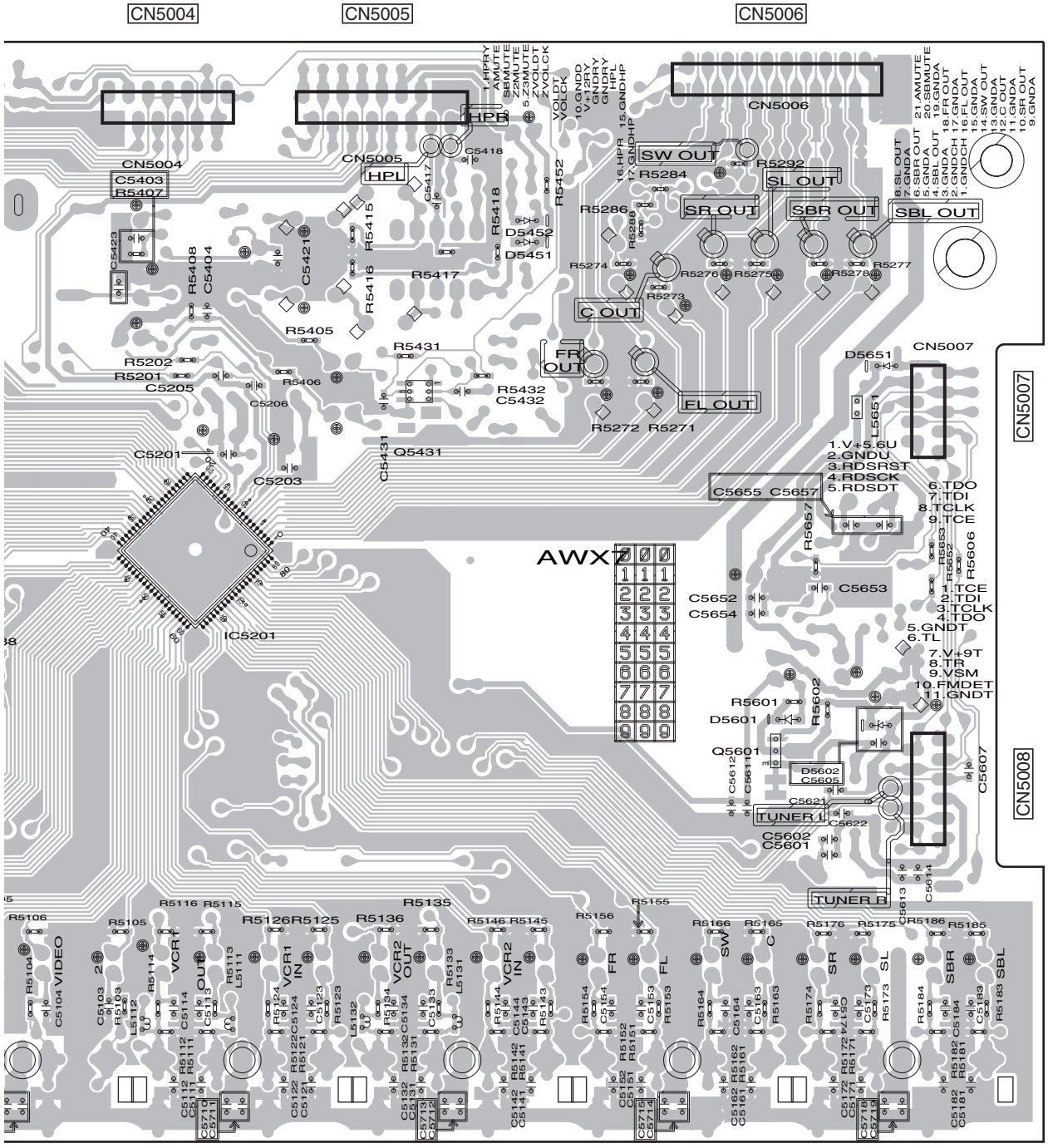
(ANP7650-D)

SIDE B

A AUDIO ASSY



SIDE B

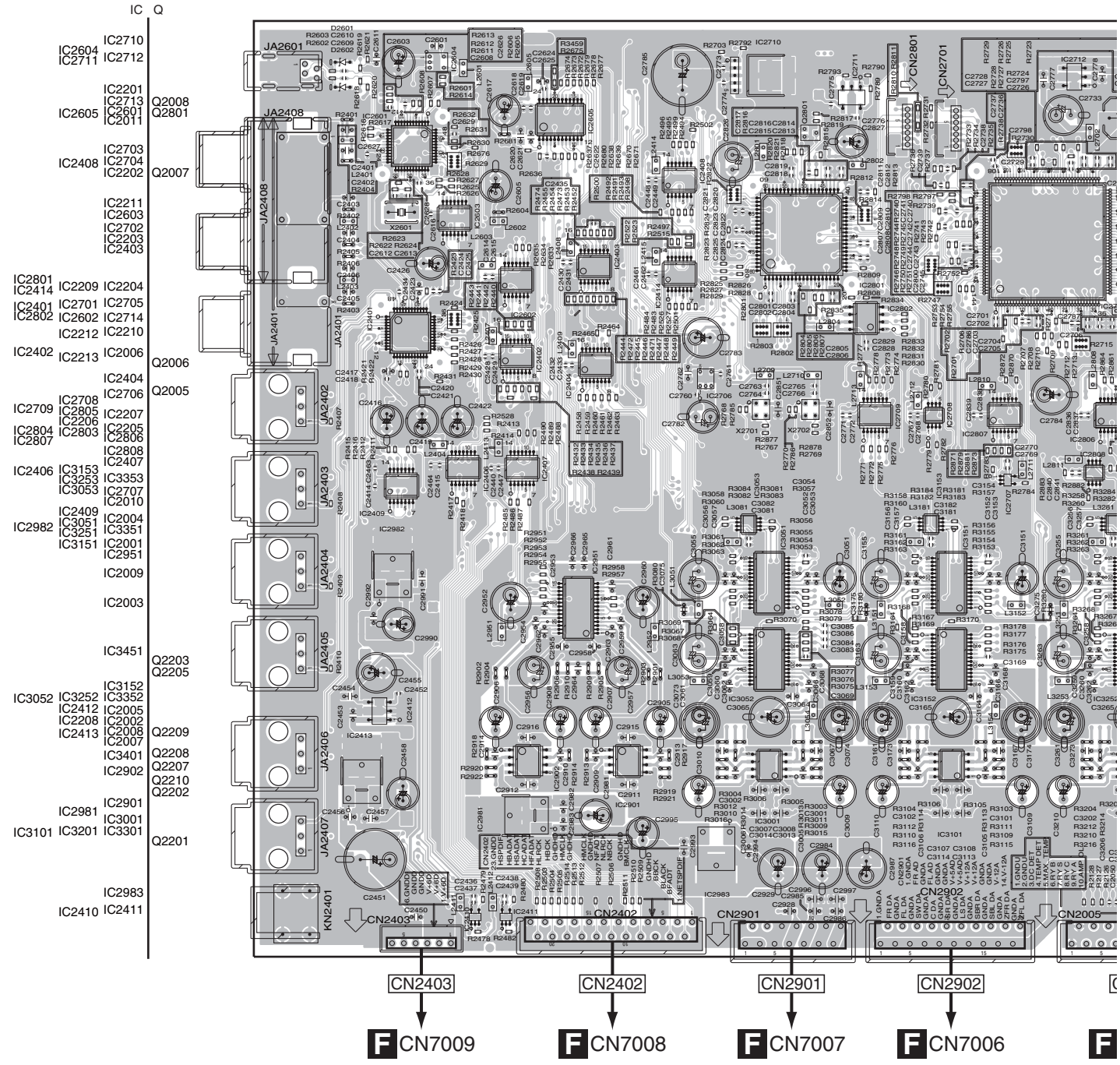


(ANP7650-D)

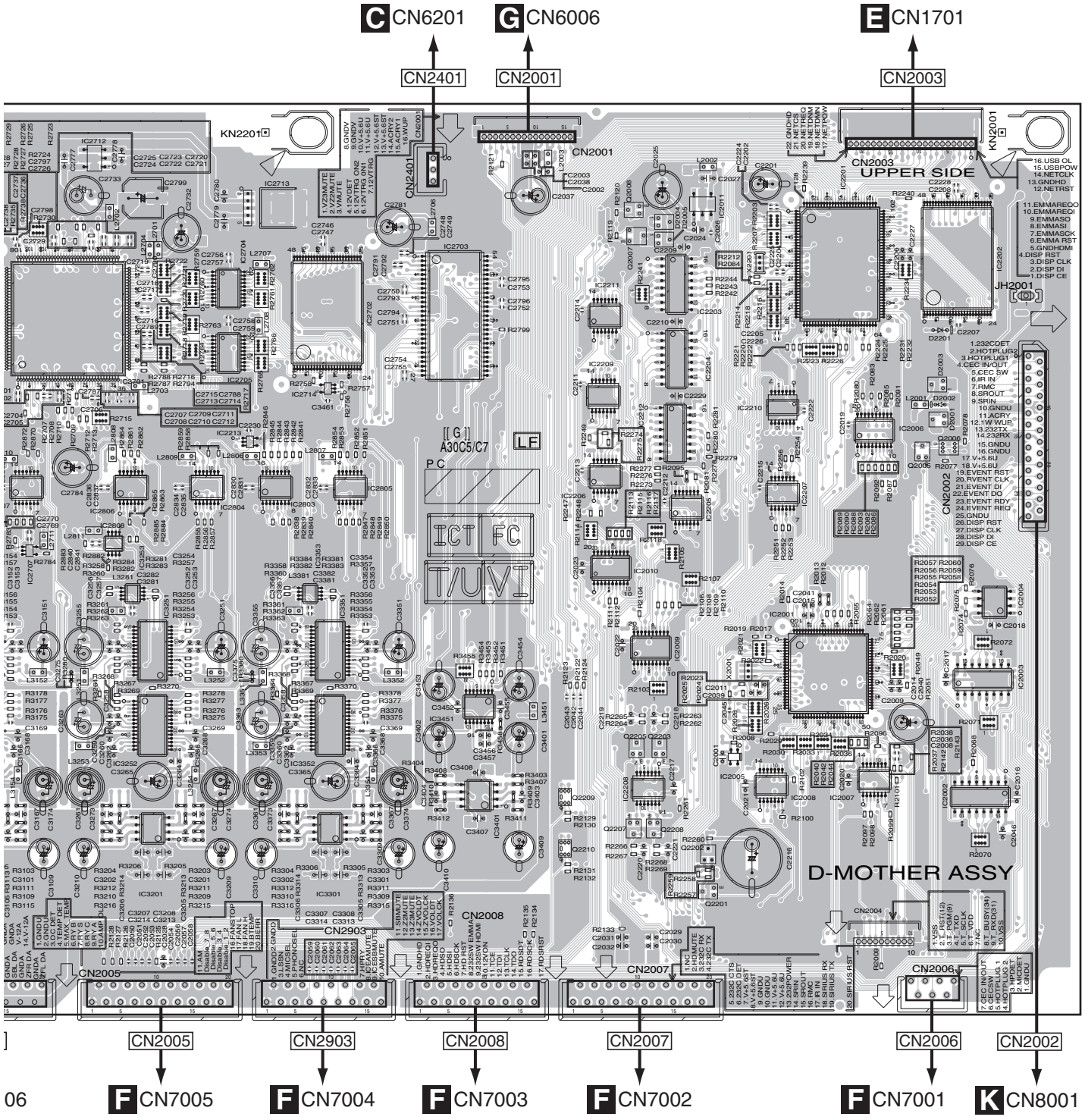
11.2 D-MOTHER ASSY

SIDE A

B D-MOTHER ASSY



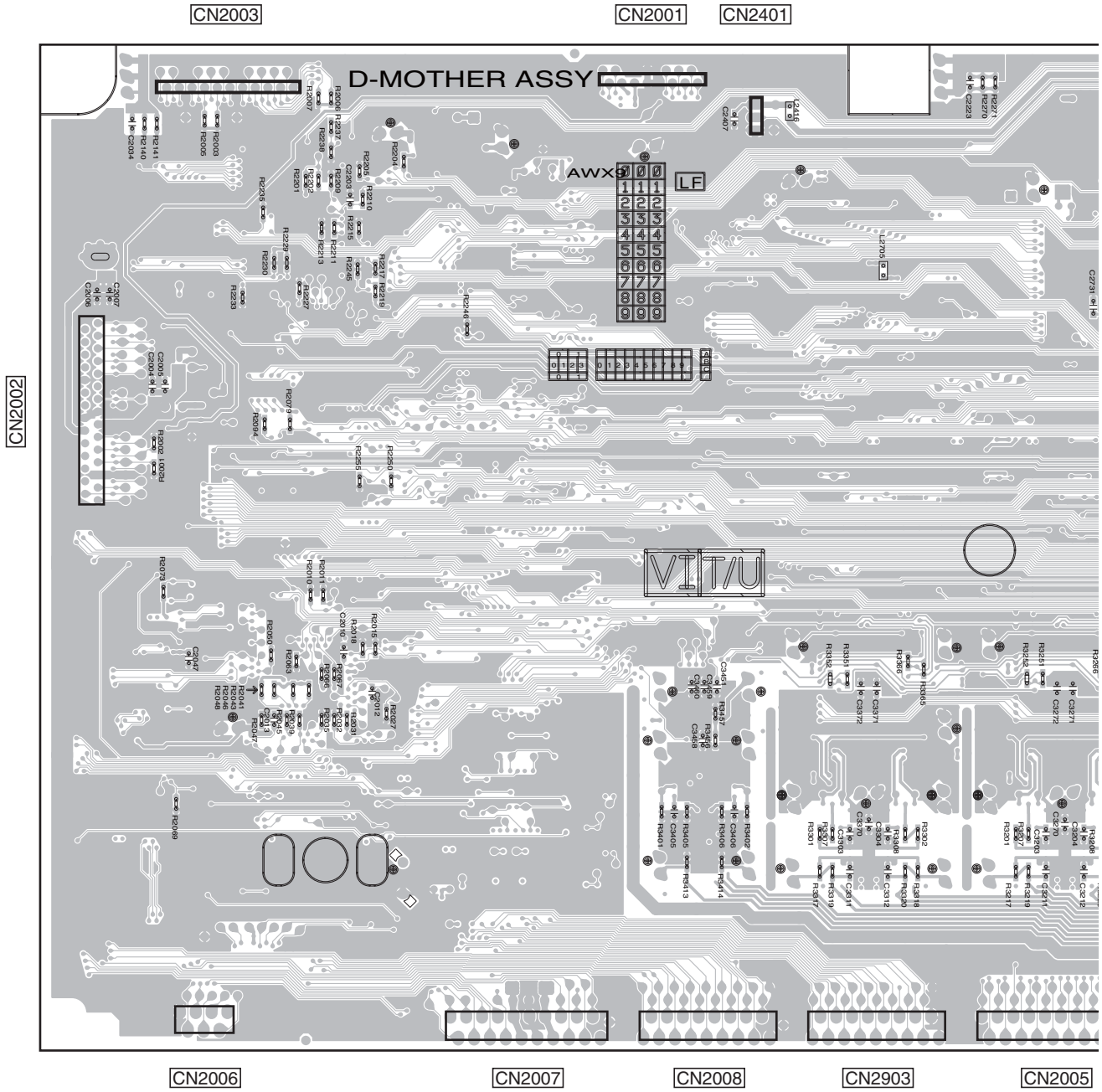
SIDE A



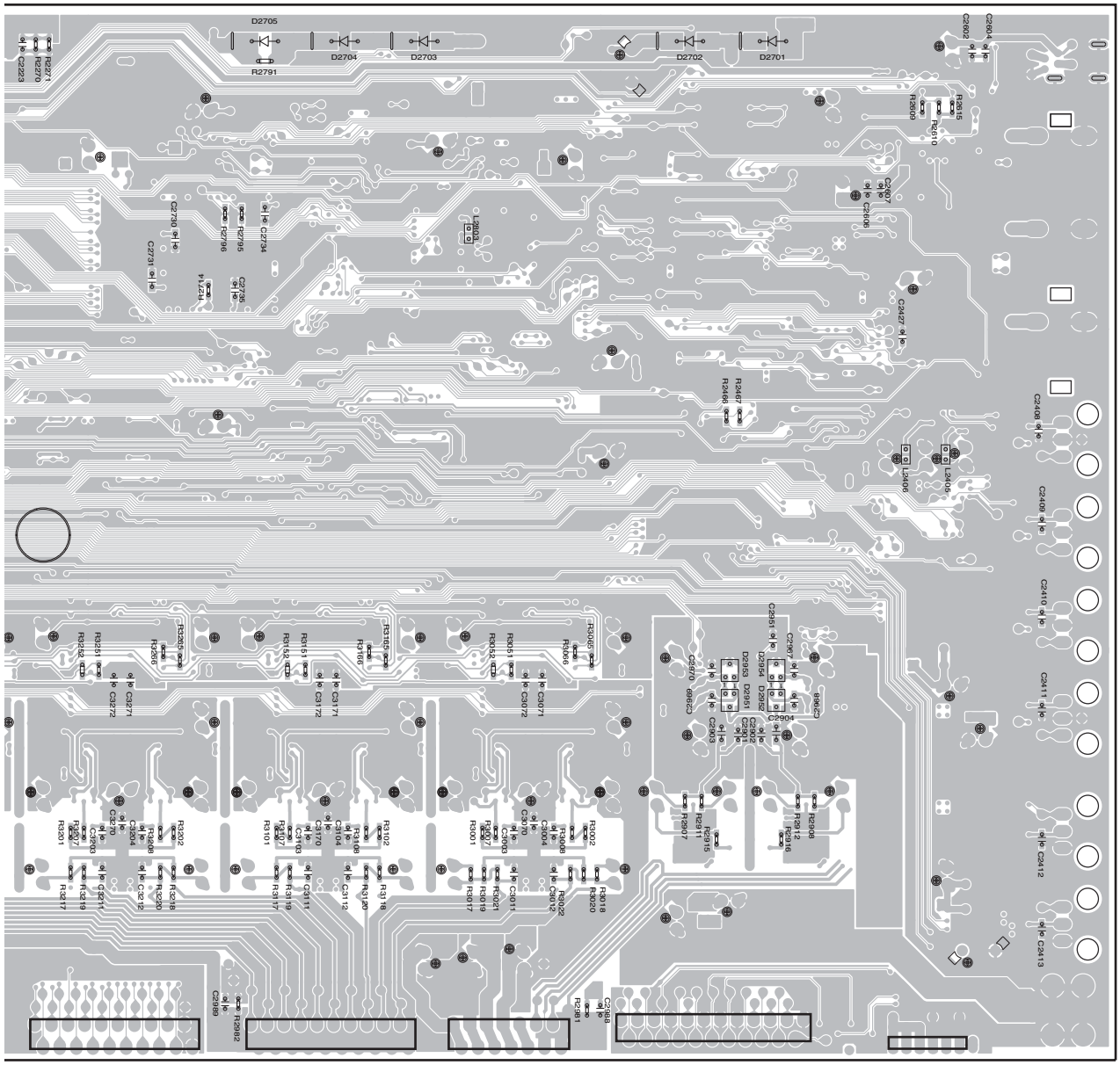
(ANP7649-B)

SIDE B

B D-MOTHER ASSY



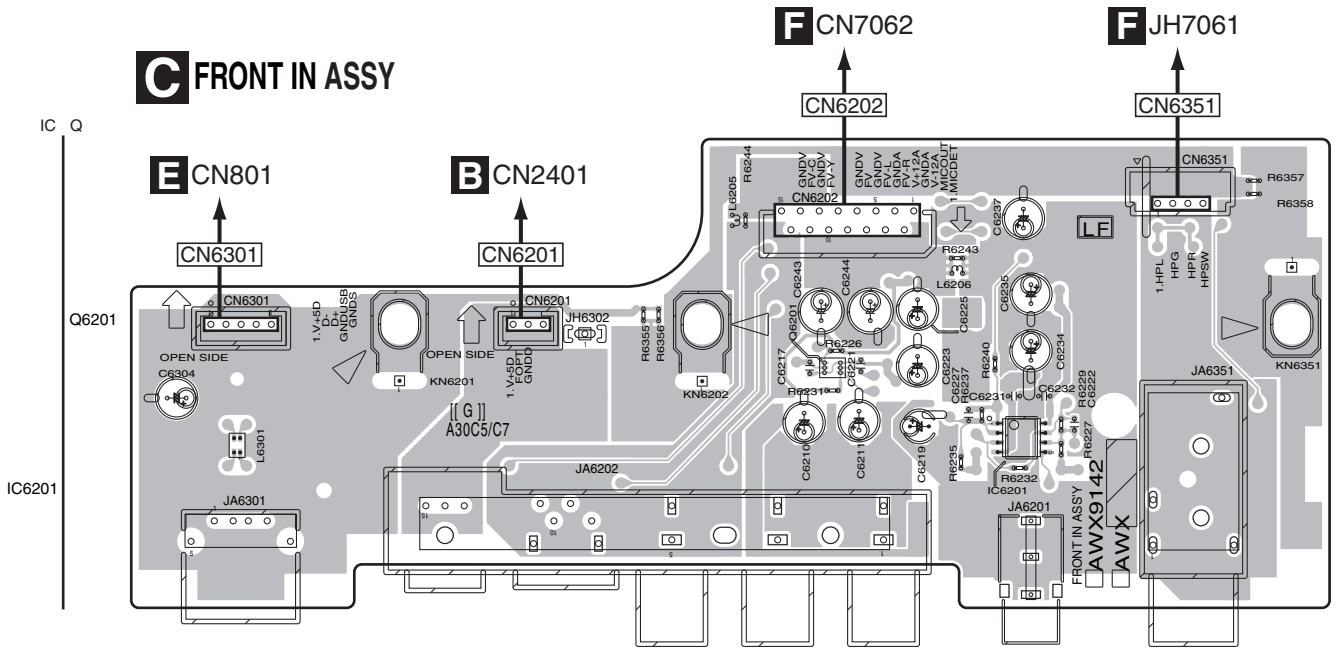
SIDE B



CN2005 CN2902 CN2901 CN2402 CN2403 (ANP7649-B)

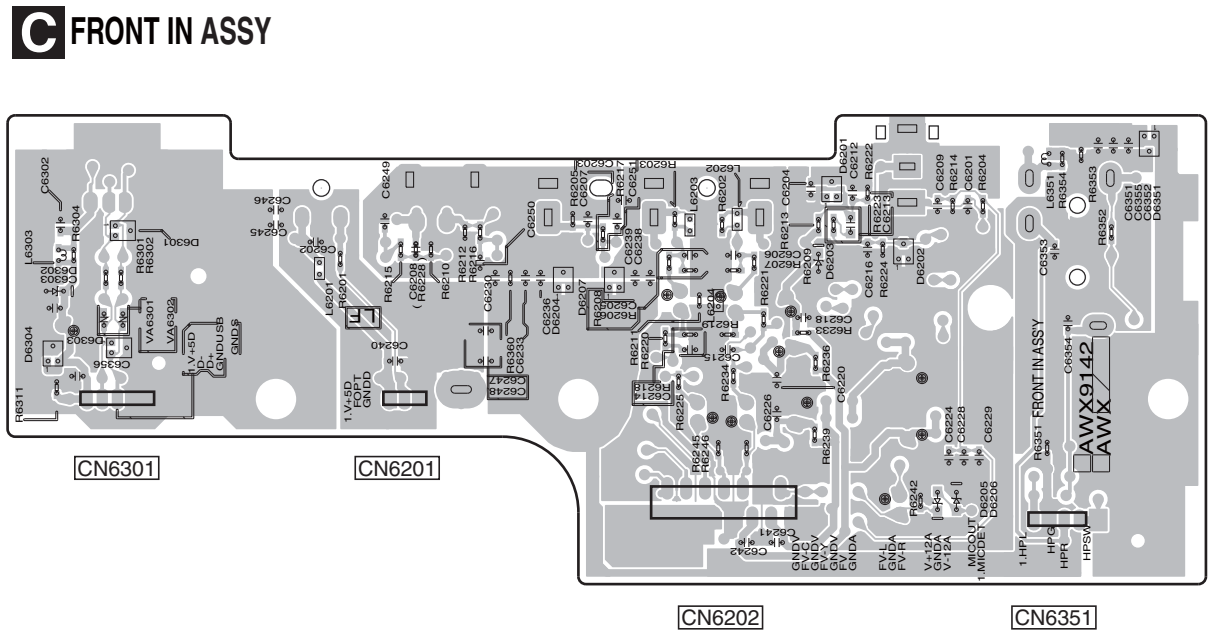
11.3 FRONT IN ASSY

SIDE A **SIDE A**



(ANP7651-B)

SIDE B **SIDE B**



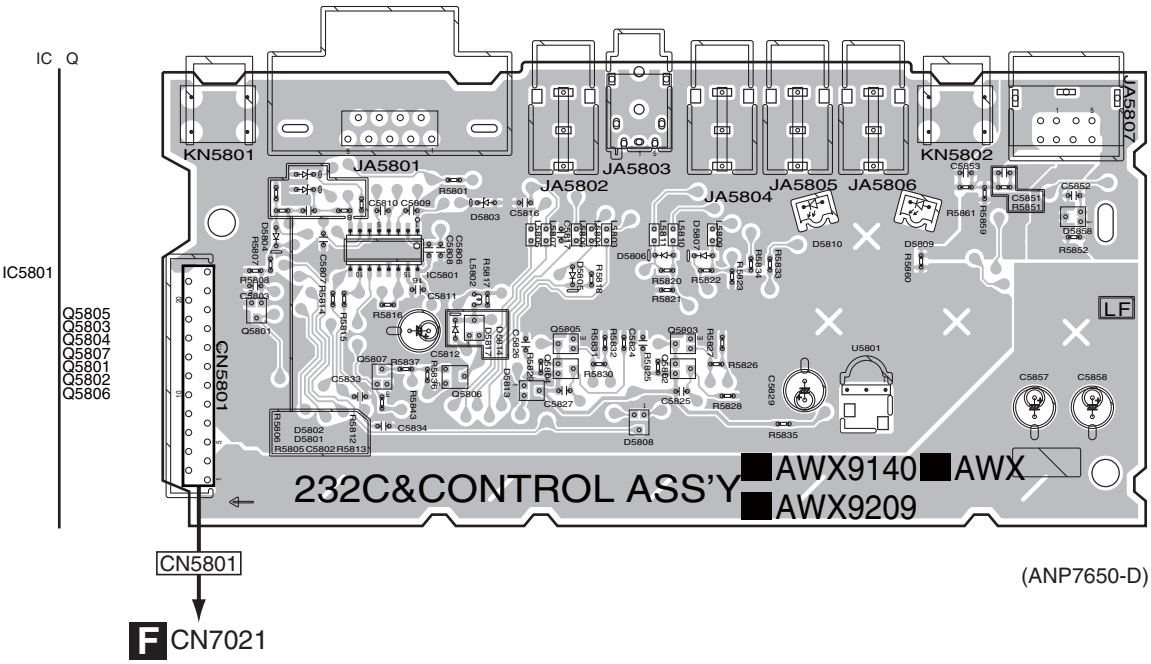
(ANP7651-B)

11.4 232C & CONTROL ASSY

SIDE A

SIDE A

D 232C & CONTROL ASSY

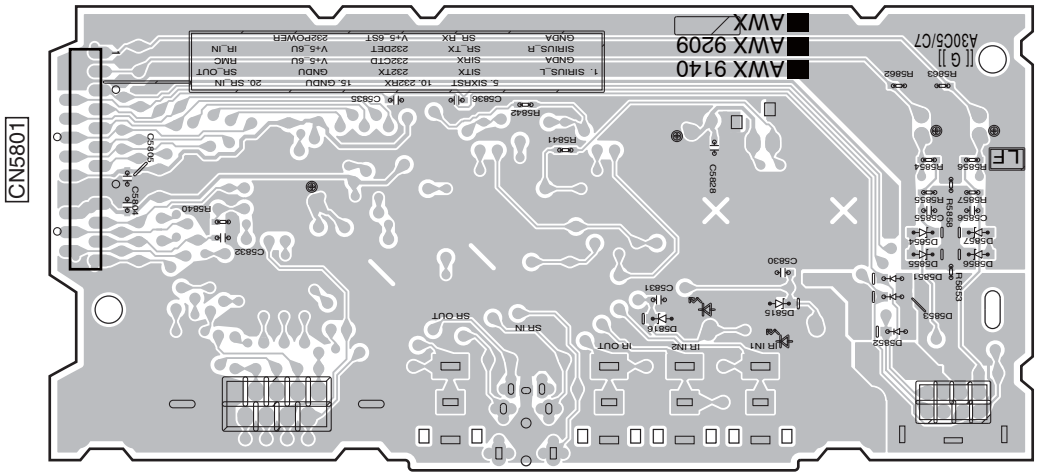


(ANP7650-D)

SIDE B

SIDE B

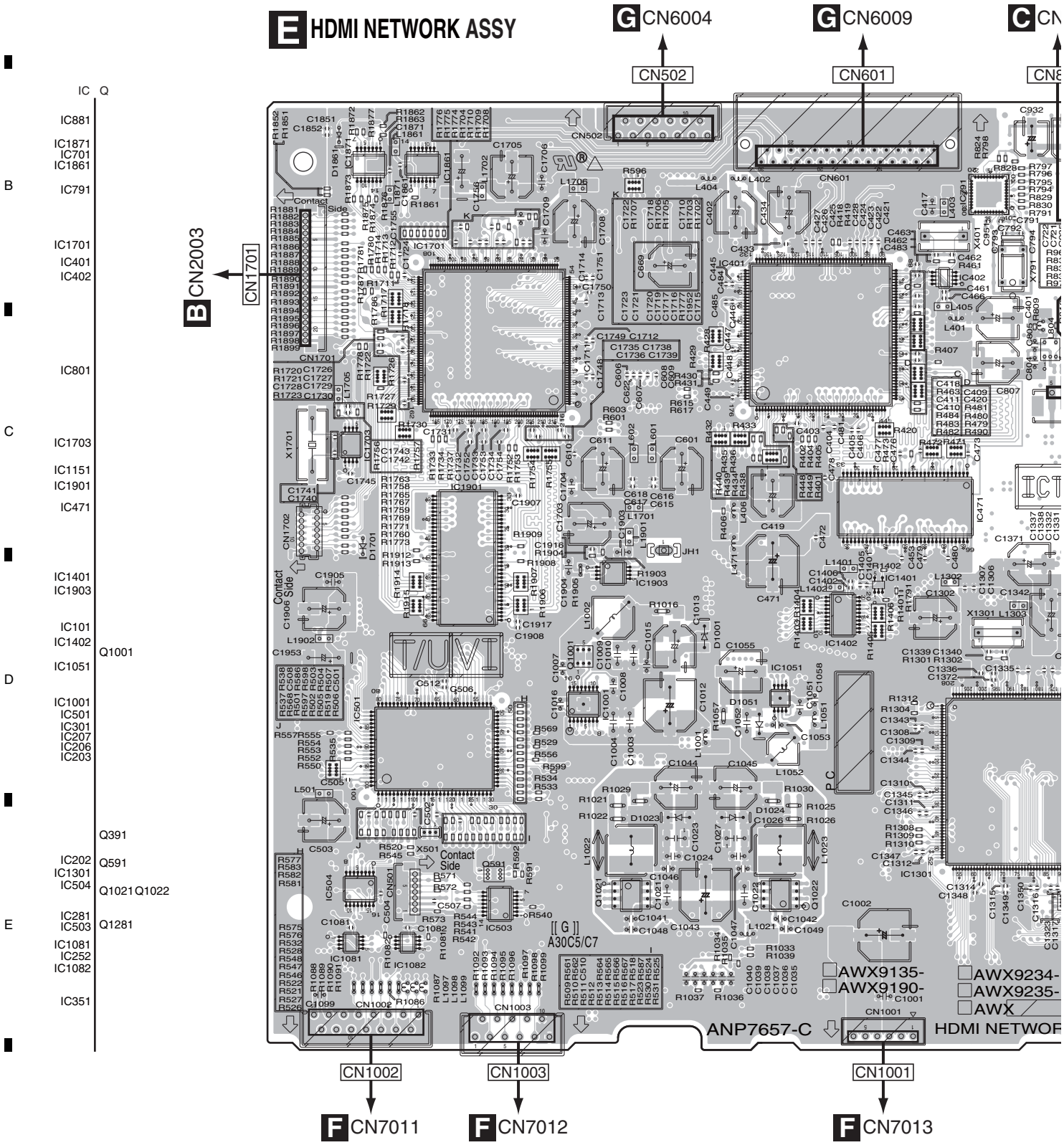
D 232C & CONTROL ASSY



(ANP7650-D)

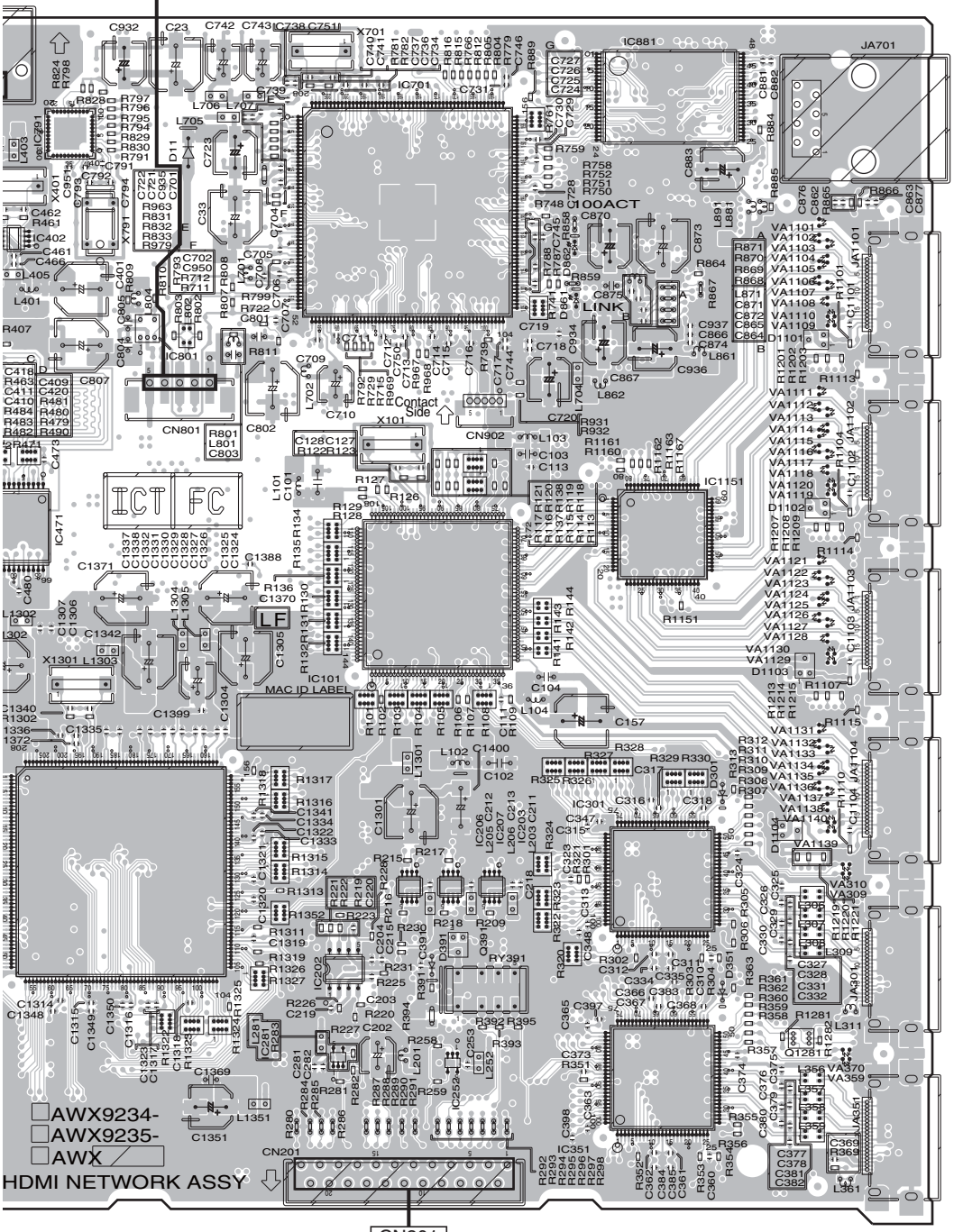
11.5 HDMI NETWORK ASSY

SIDE A



C CN5301

CN801



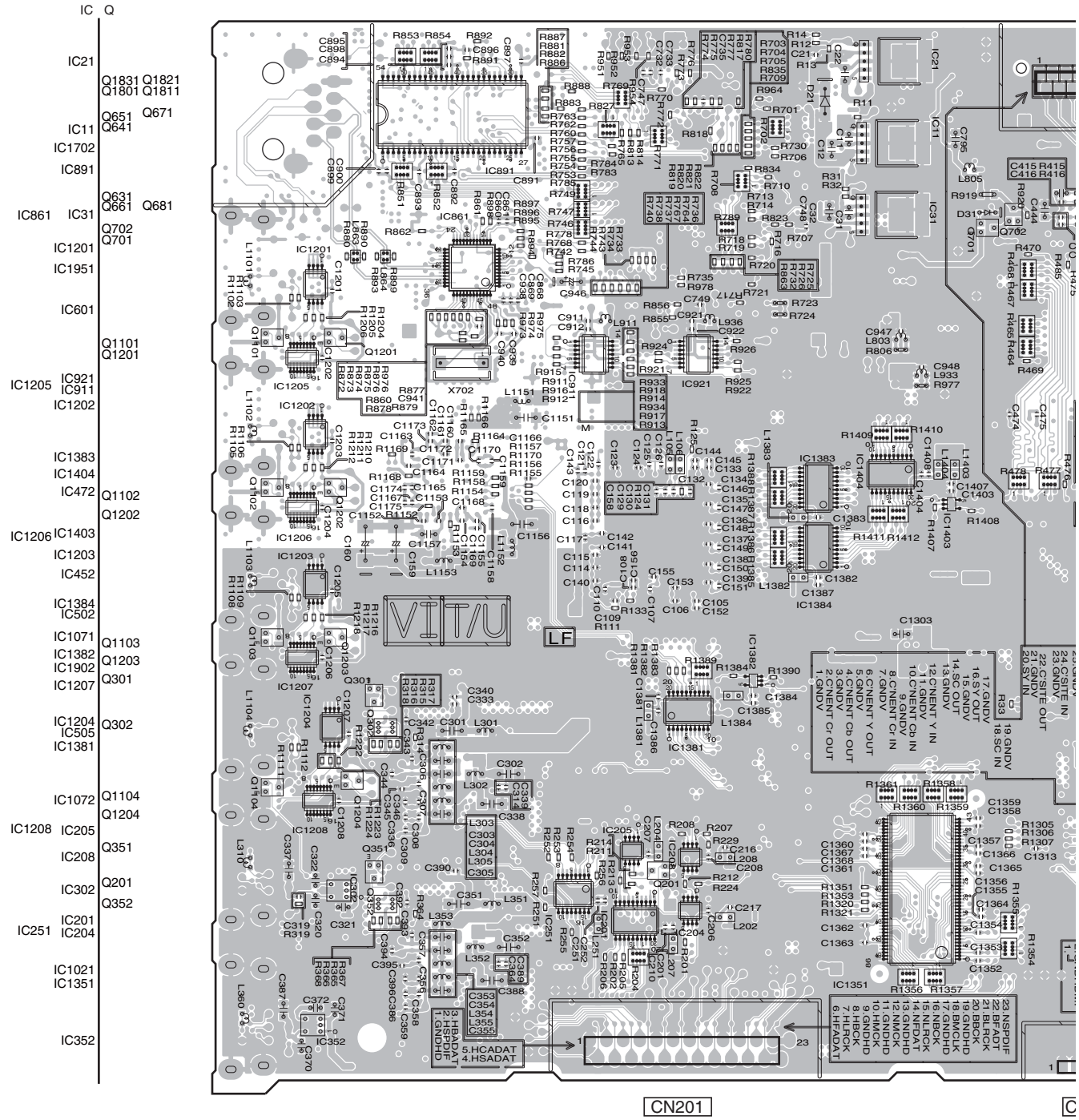
CN201

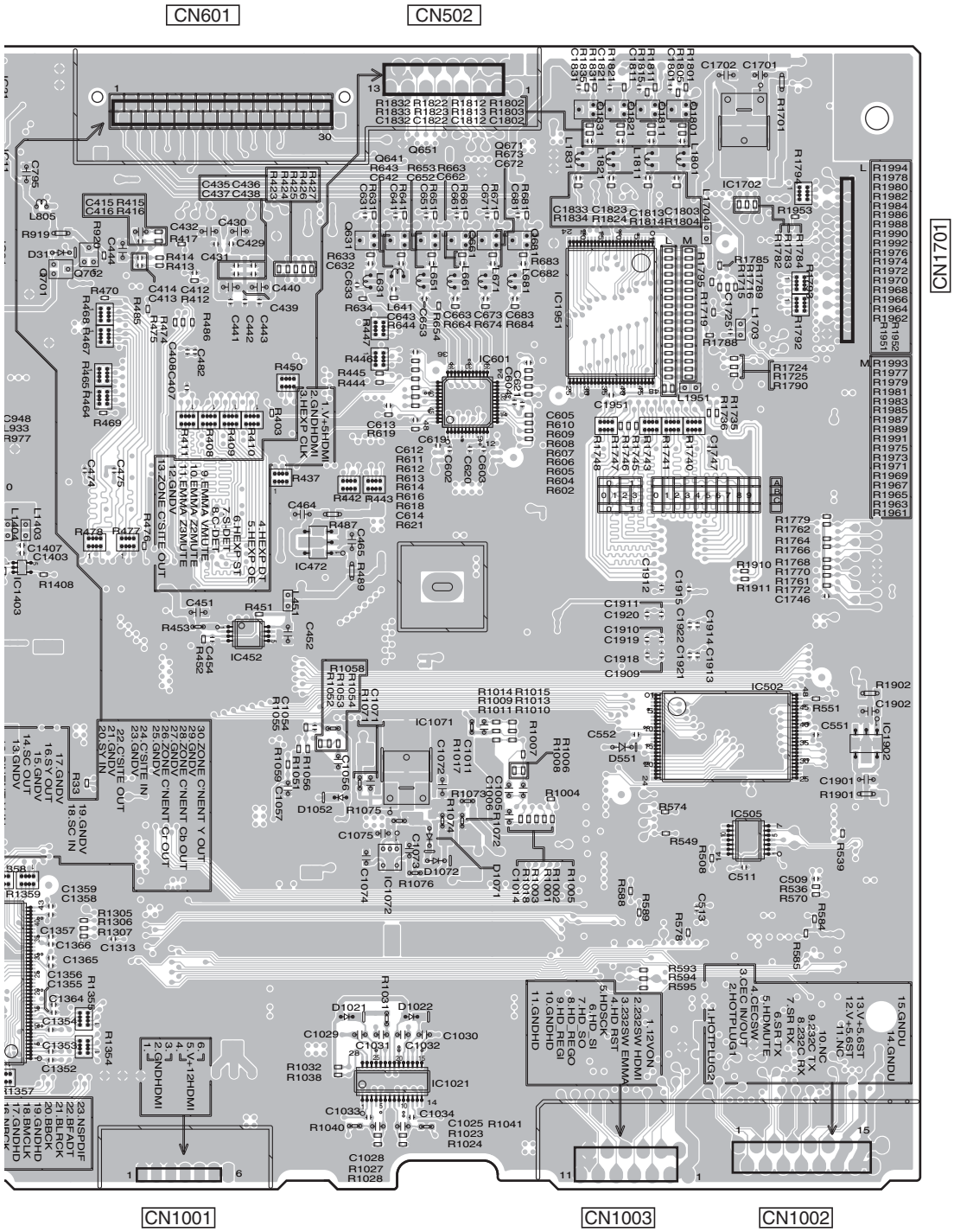
F CN7014

(ANP7657-C)

SIDE B

E HDMI NETWORK ASSY



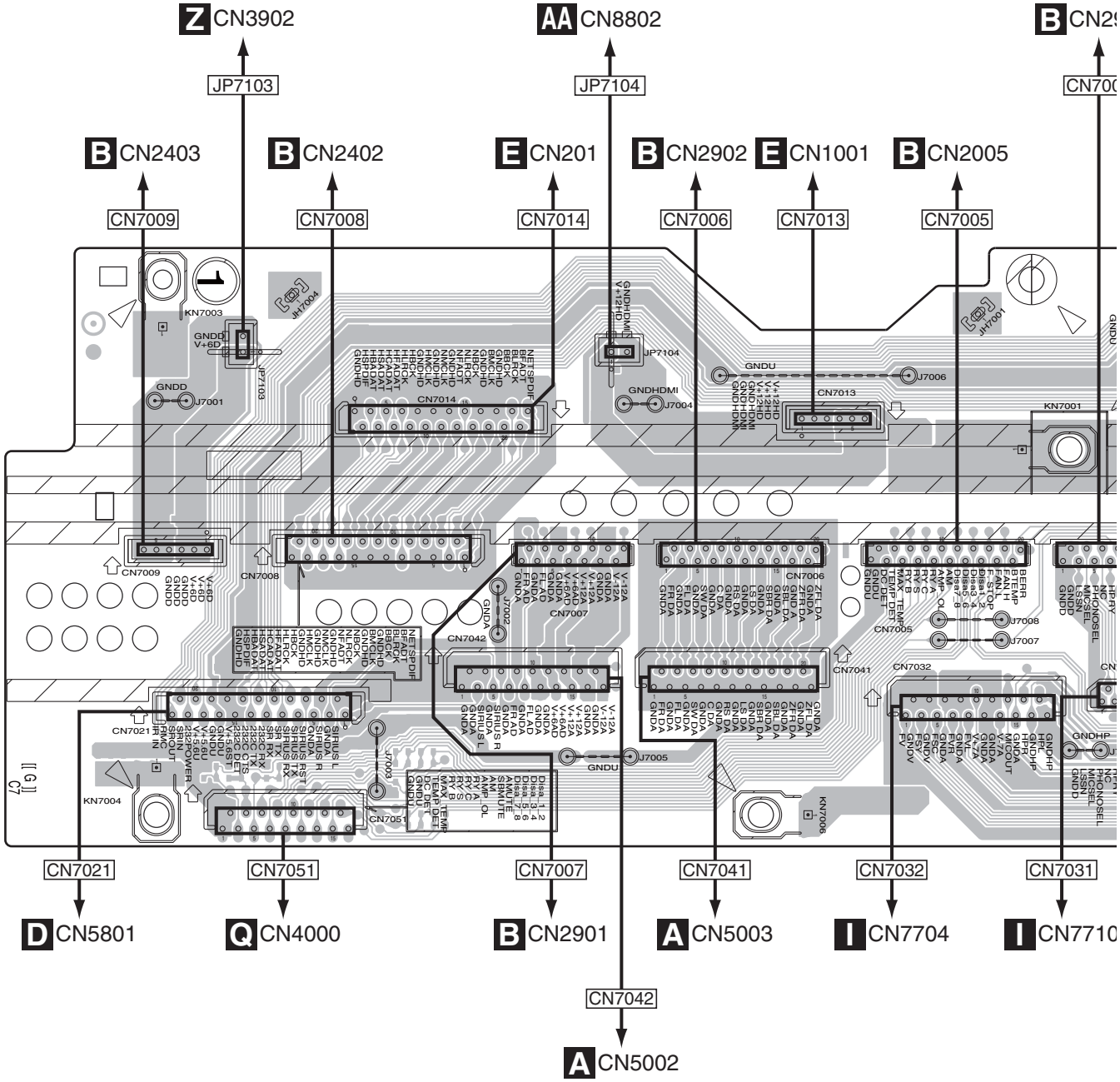


(ANP7657-C)

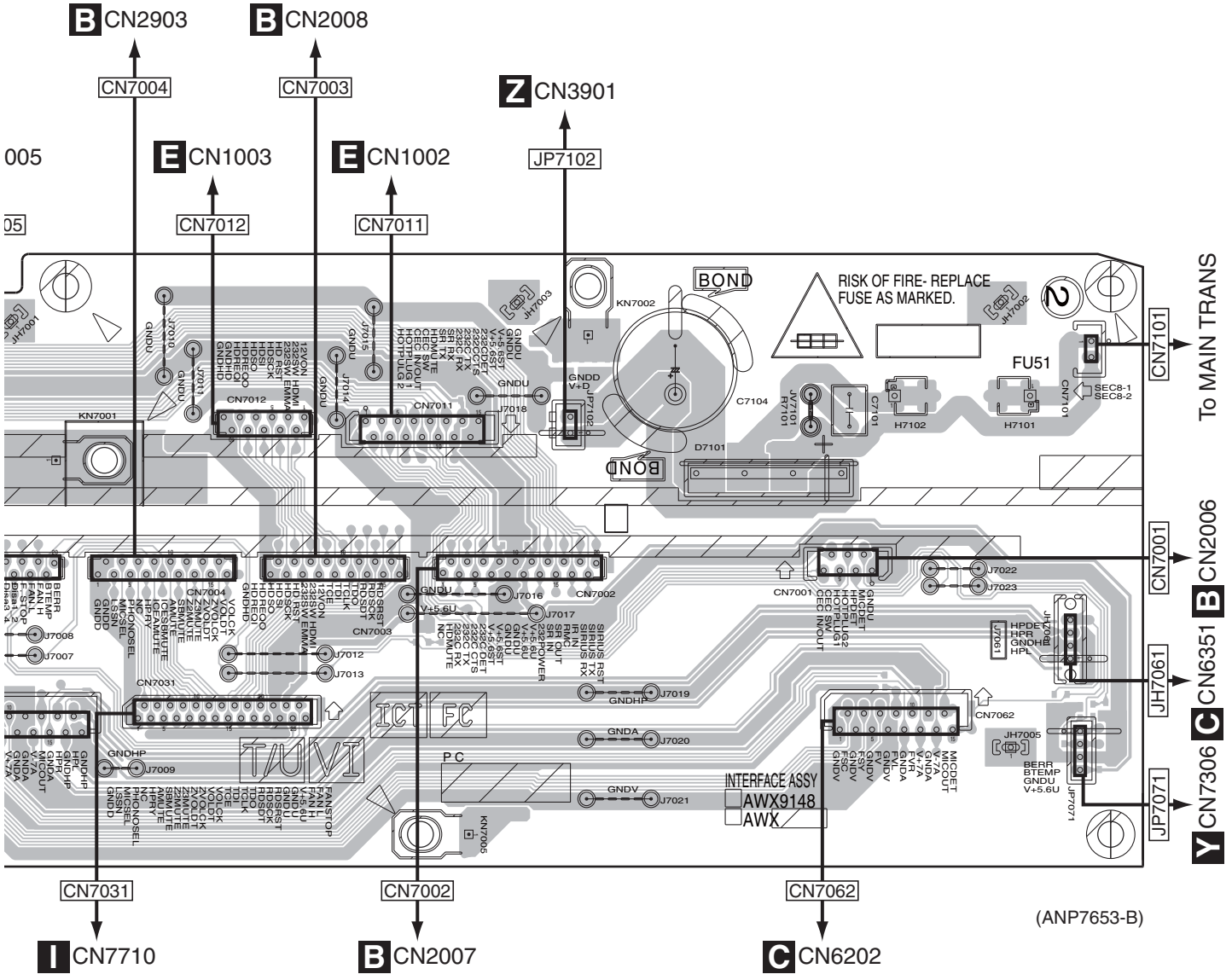
11.6 INTERFACE ASSY

SIDE A

F INTERFACE ASSY

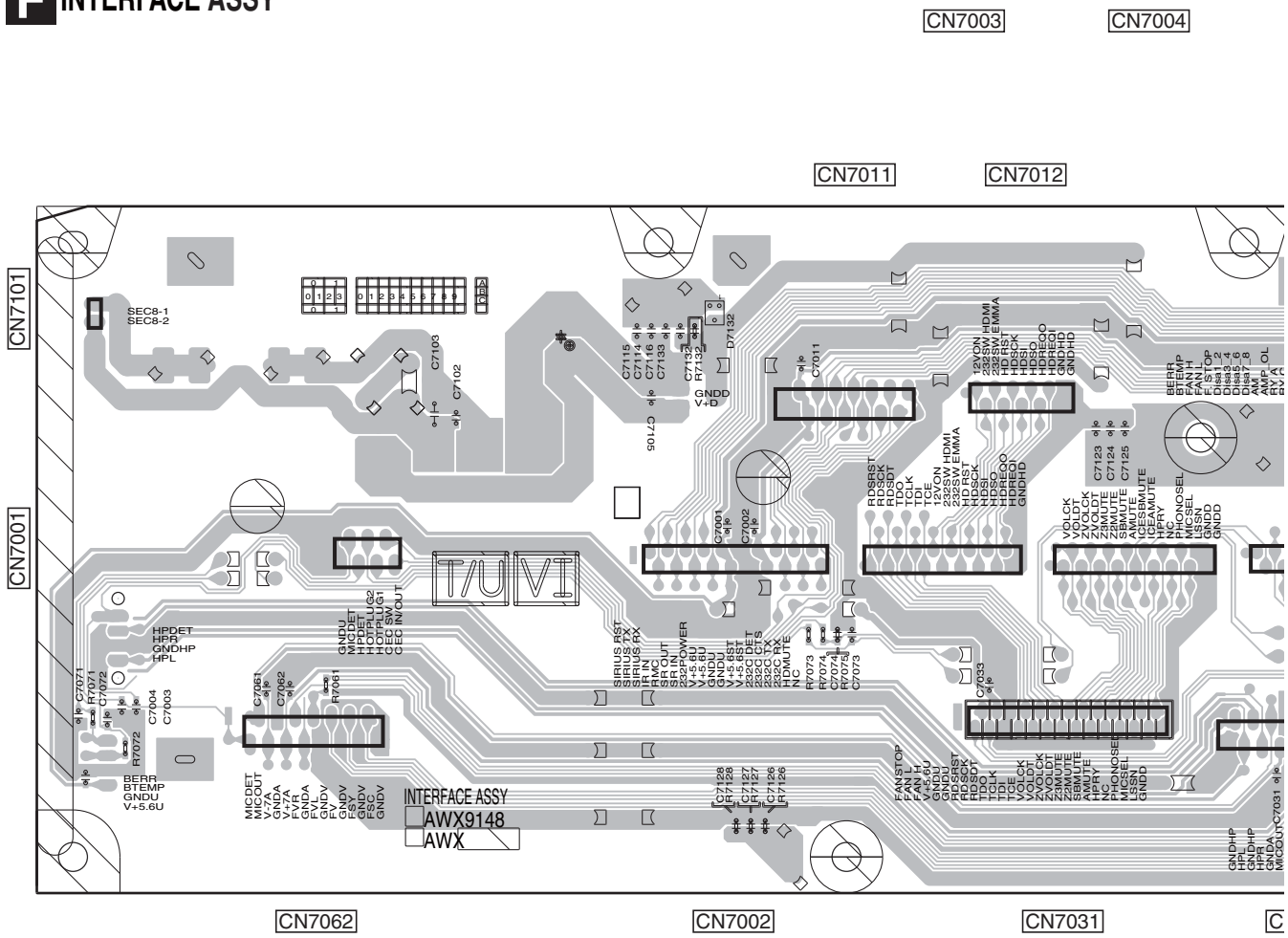


SIDE A


B CN2903
B CN2008
Z CN3901
E CN1003
E CN1002
CN7004
CN7003
JP7102
CN7012
CN7011
BOND
RISK OF FIRE- REPLACE FUSE AS MARKED.
FU51
CN7101
To MAIN TRANS
CN7001
B CN2006
JH7061
C CN6351
JP7071
Y CN7306
CN7031
CN7002
CN7062
I CN7710
B CN2007
C CN6202
INTERFACE ASSY
AWX9148
AWX
(ANP7653-B)

SIDE B

F INTERFACE ASSY



SIDE B

A

B

C

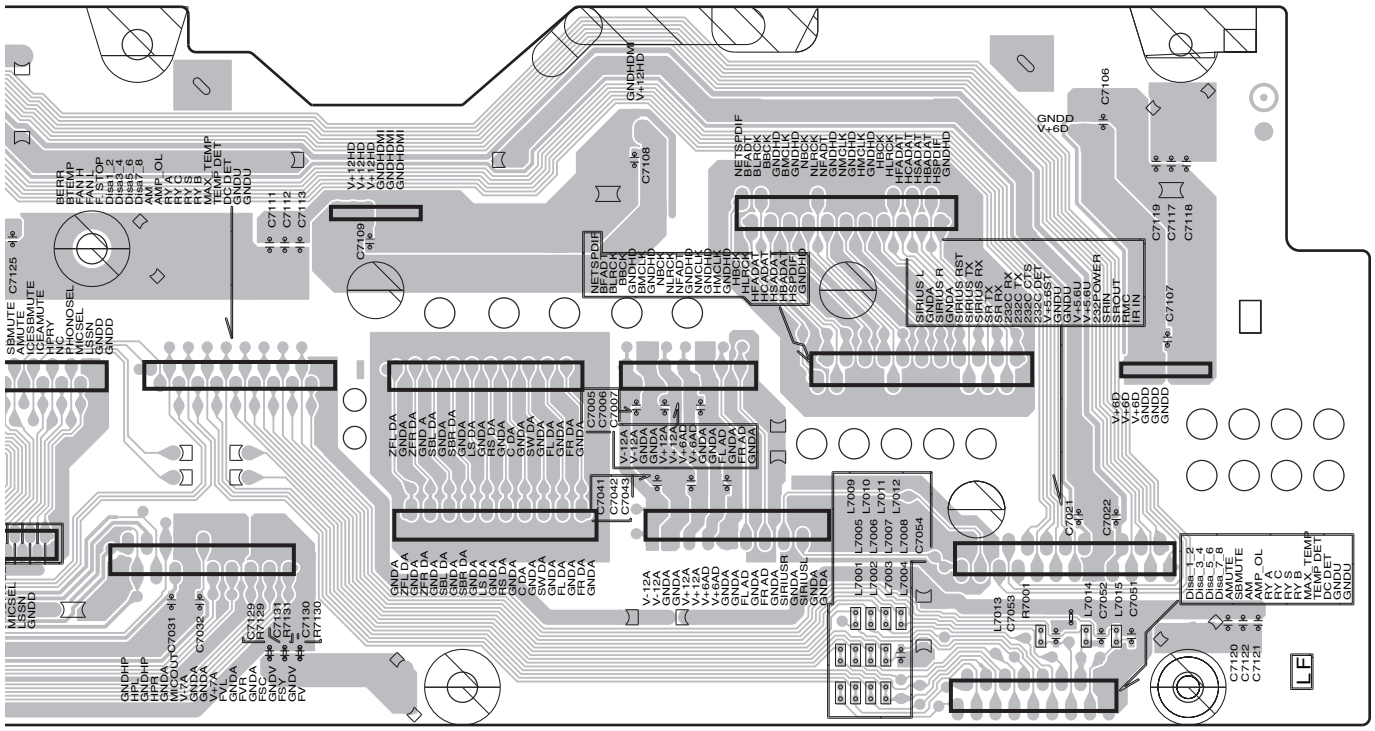
D

E

F

CN7004

CN7005 CN7013 CN7006 CN7014 CN7008 CN7009



CN7032 CN7041 CN7007 CN7051

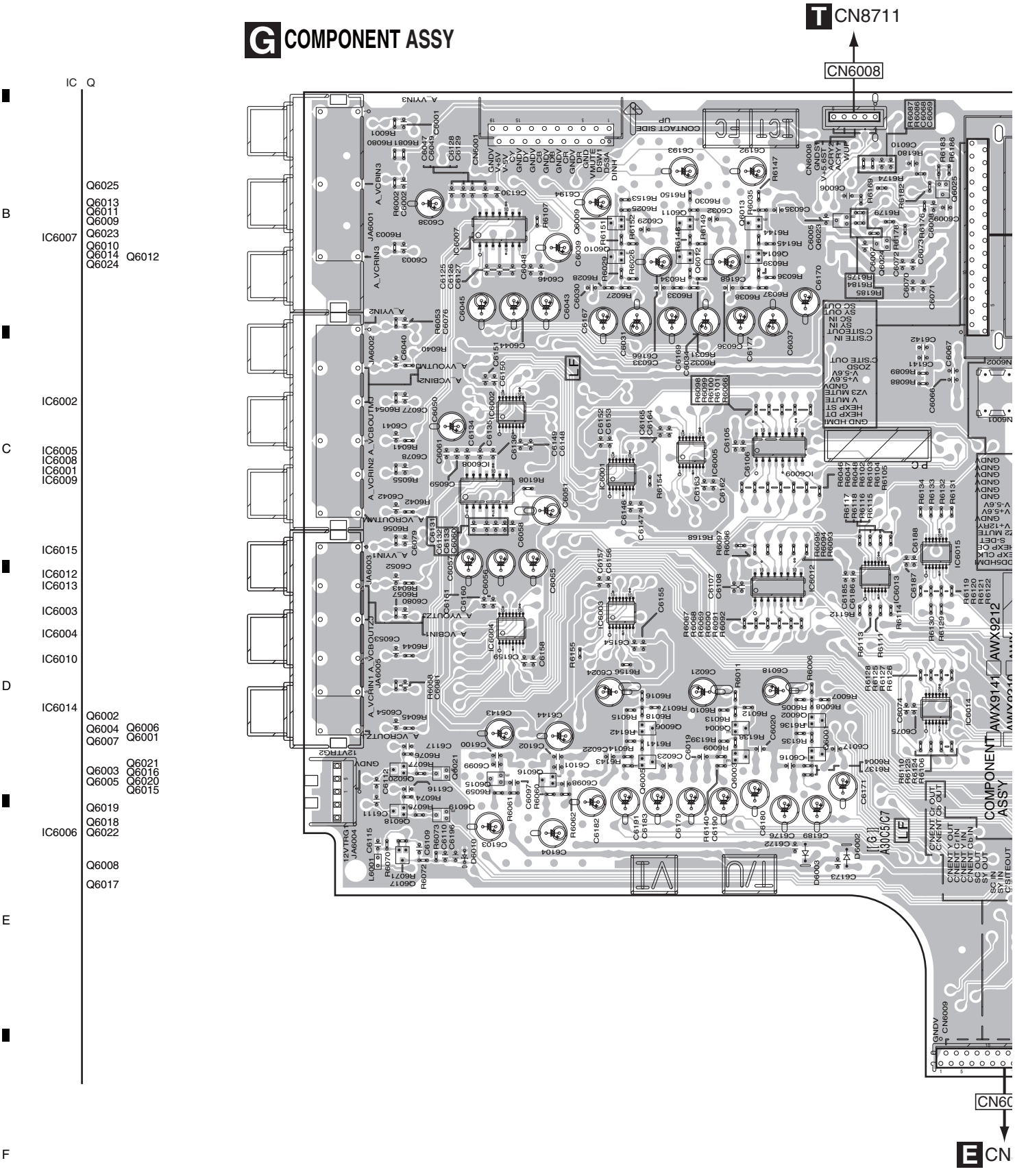
(ANP7653-B)

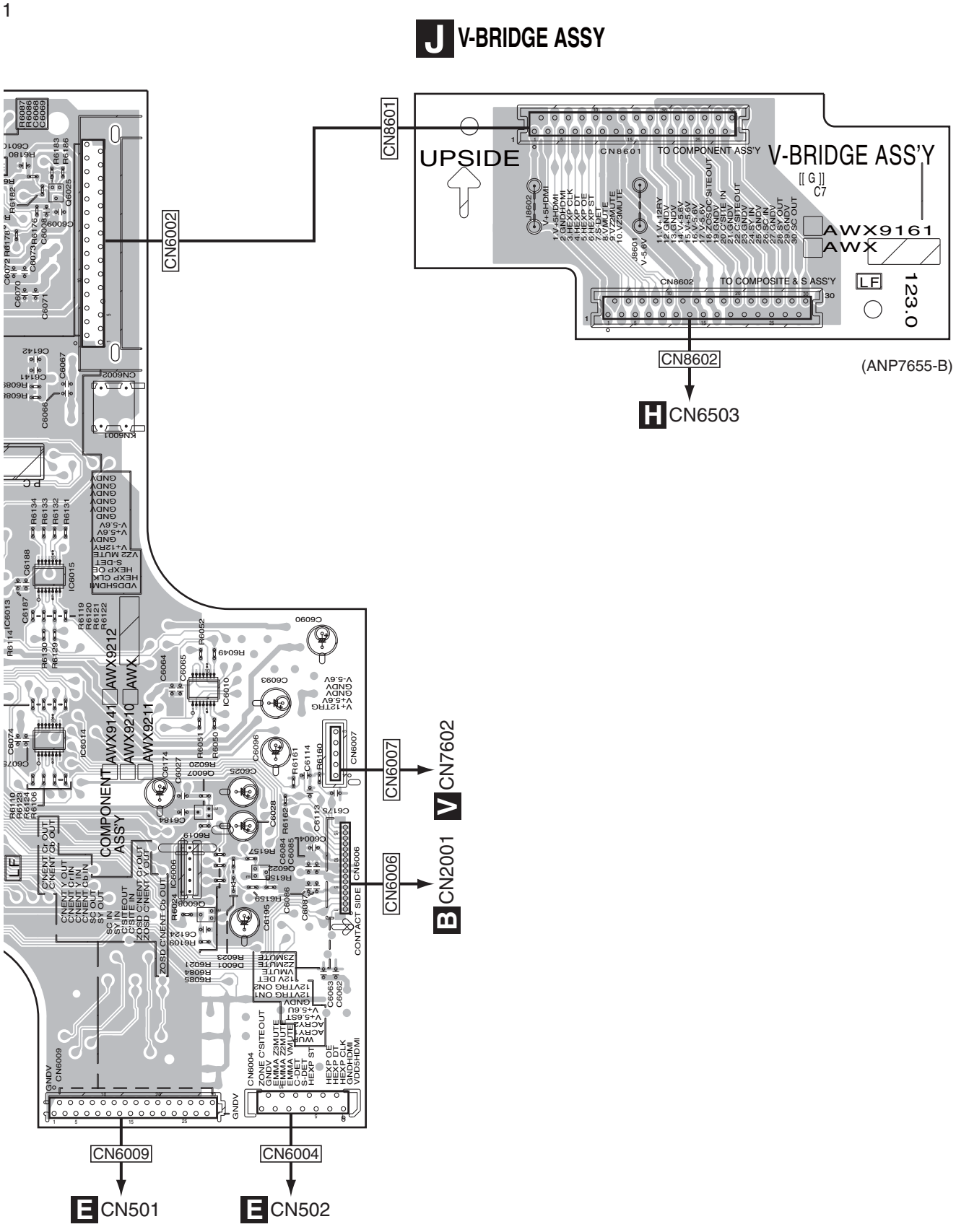
CN7042 CN7021

11.7 COMPONENT and V BRIDGE ASSYS

SIDE A

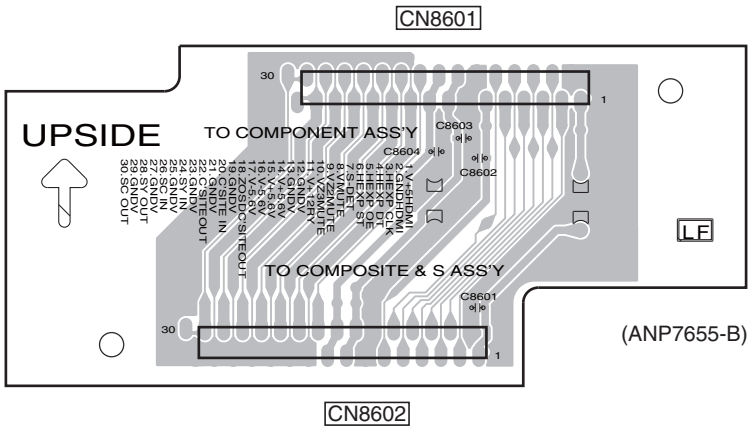
G COMPONENT ASSY

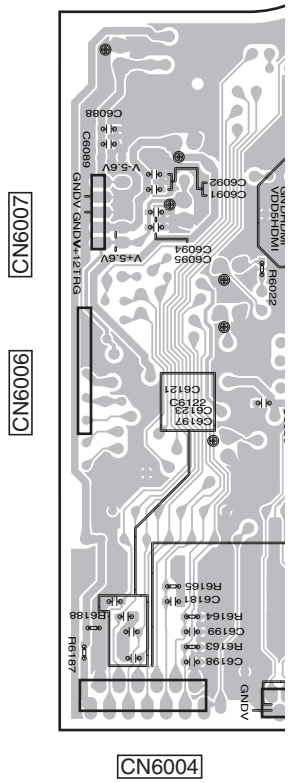



J V-BRIDGE ASSY
CN8601
UPSIDE
CN8601 TO COMPONENT ASS'Y
V-BRIDGE ASS'Y
[[G]]
C7
AWX9161
AWX
LF
123.0
CN8602 TO COMPOSITE & S ASS'Y
CN8602
(ANP7655-B)
H CN6503
CN6002
AWX9212
AWX
AWX9141
AWX9210
AWX9211
COMPONENT ASS'Y
CN6007
CN6006
V CN7602
B CN2001
CONTACT SIDE
CN6009
CN6004
E CN501
E CN502
(ANP7651-B)

SIDE B

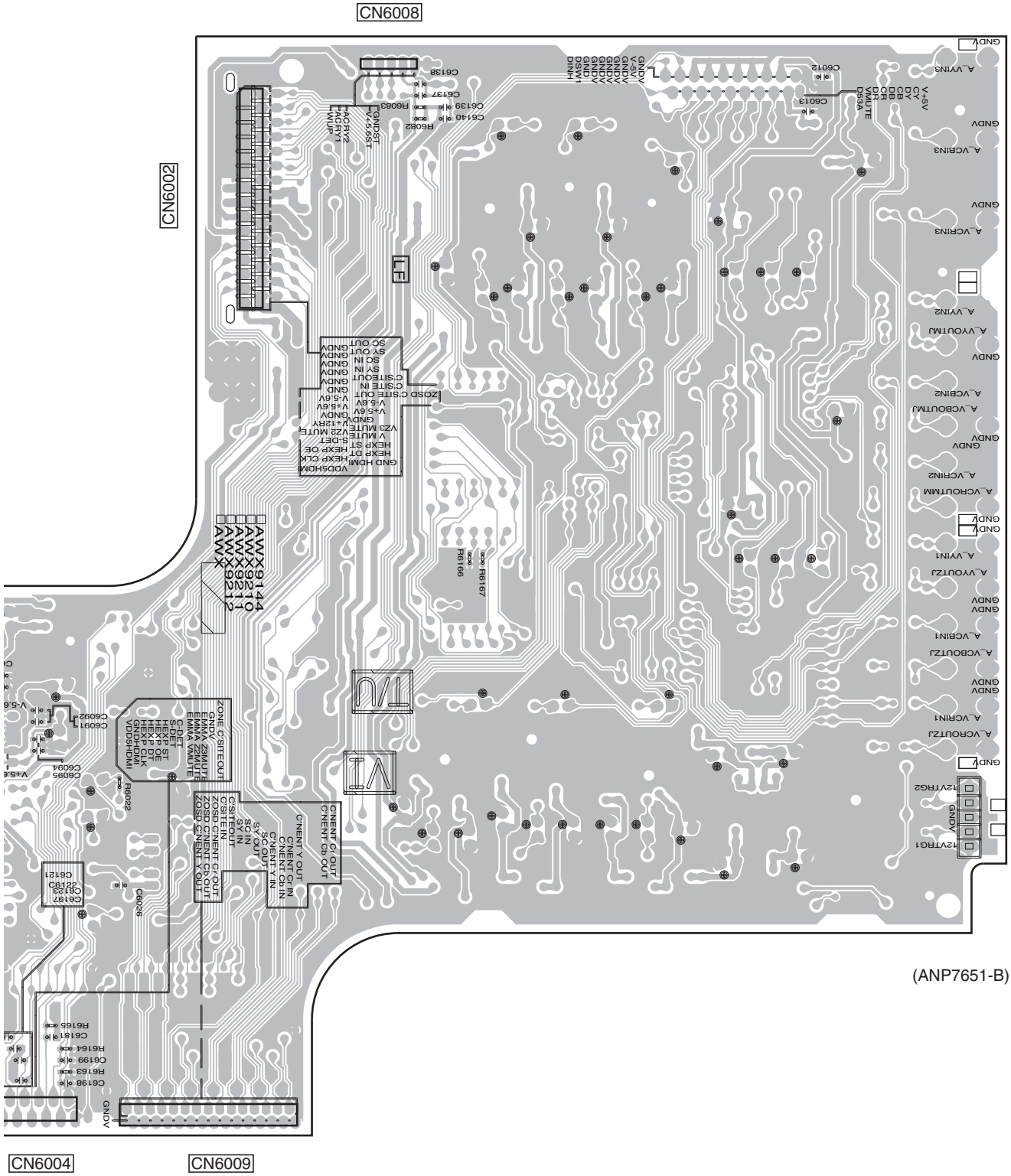
J V-BRIDGE ASSY





SIDE B

G COMPONENT ASSY

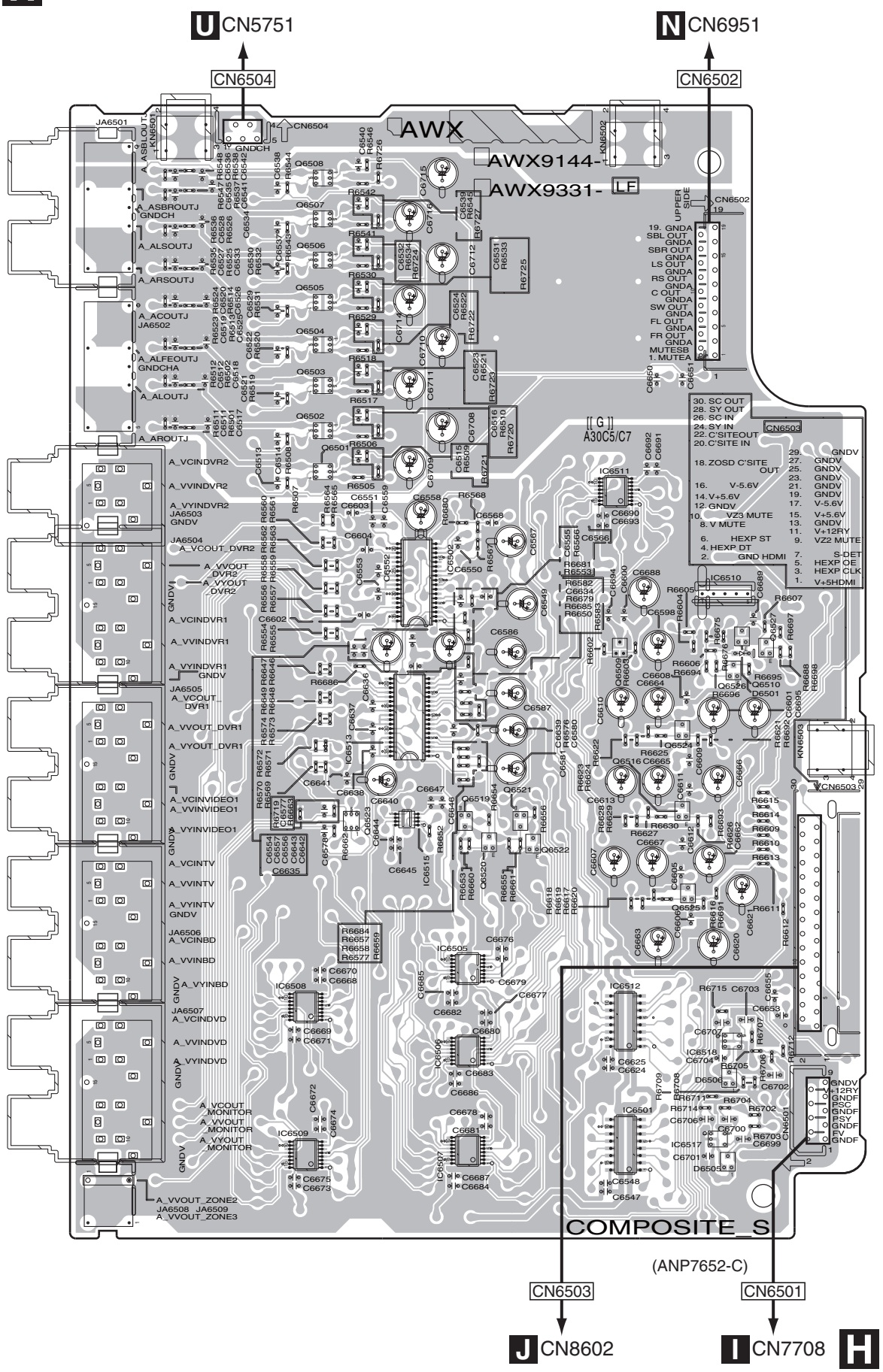


11.8 COMPOSITE S ASSY

SIDE A

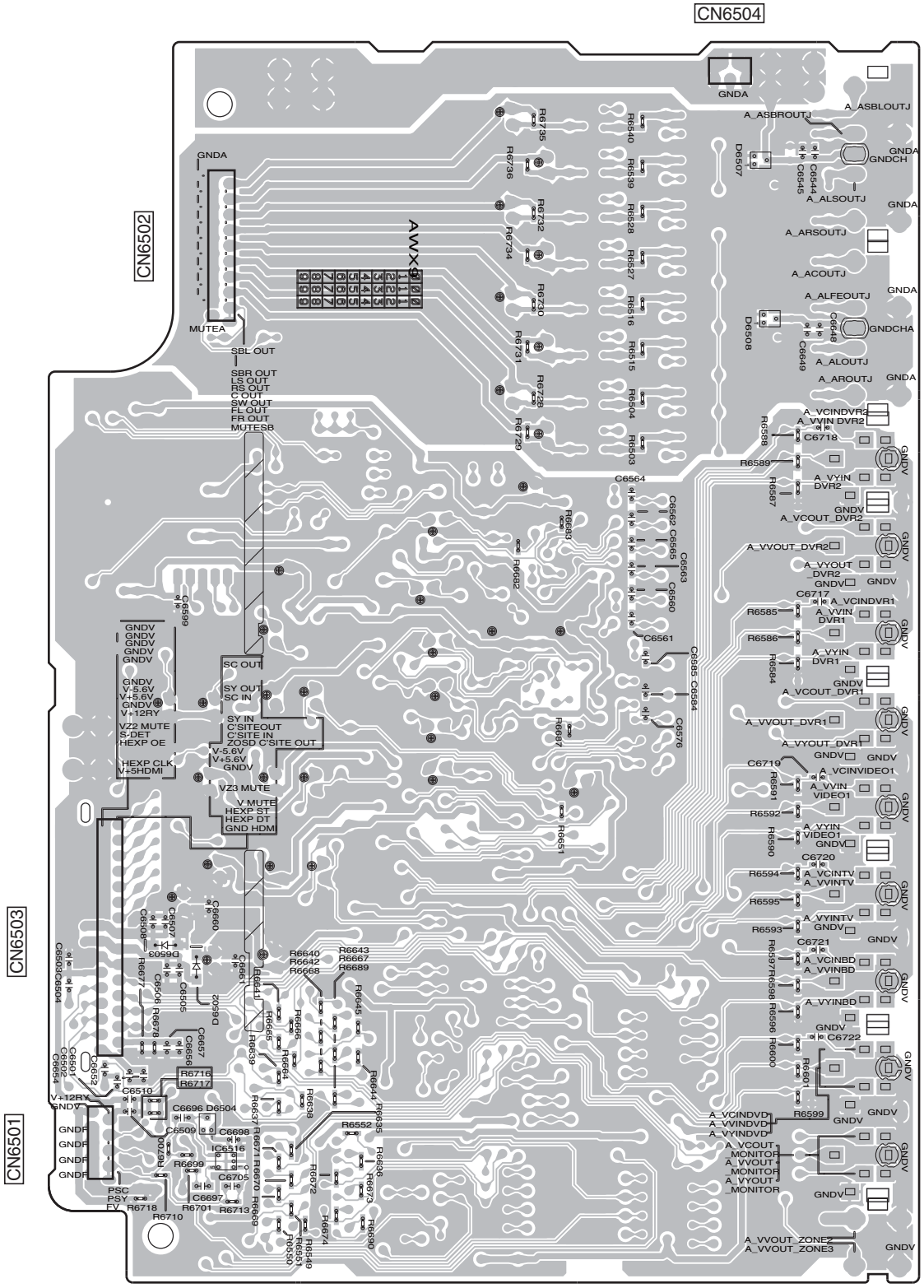
H COMPOSITE S ASSY

SIDE A



SIDE B

H COMPOSITE S ASSY



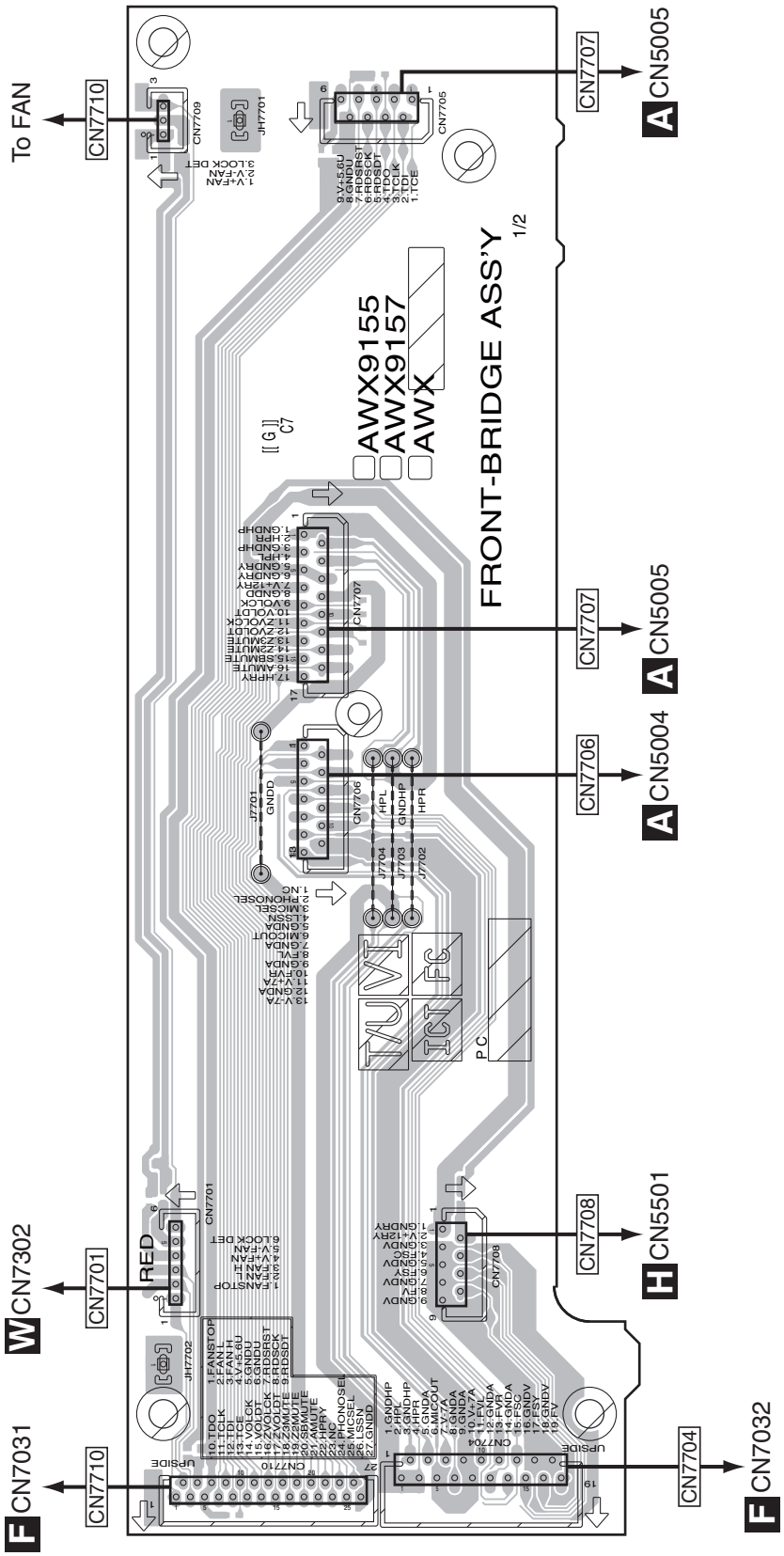
(ANP7652-C)

11.9 FRONT BRIDGE ASSY

SIDE A

SIDE A

I FRONT BRIDGE ASSY



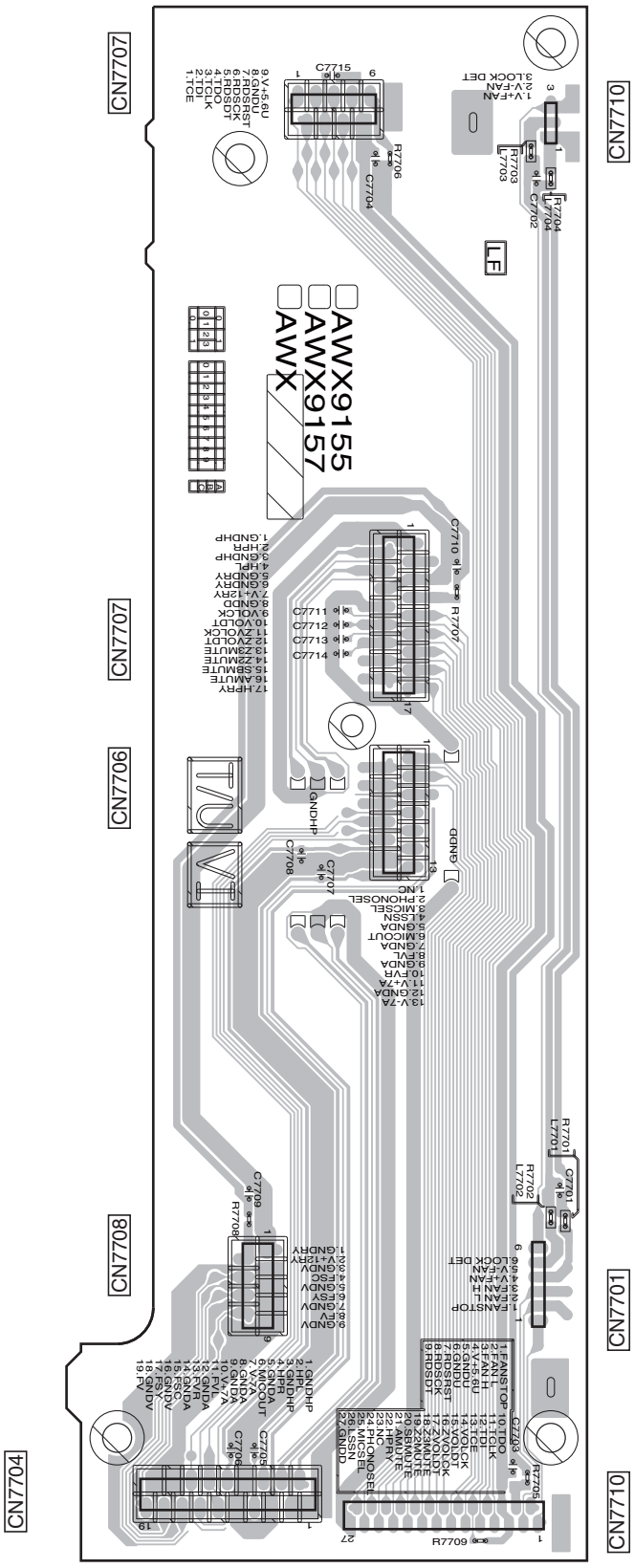
(ANP7654-B)

I

I

SIDE B

FRONT BRIDGE ASSY

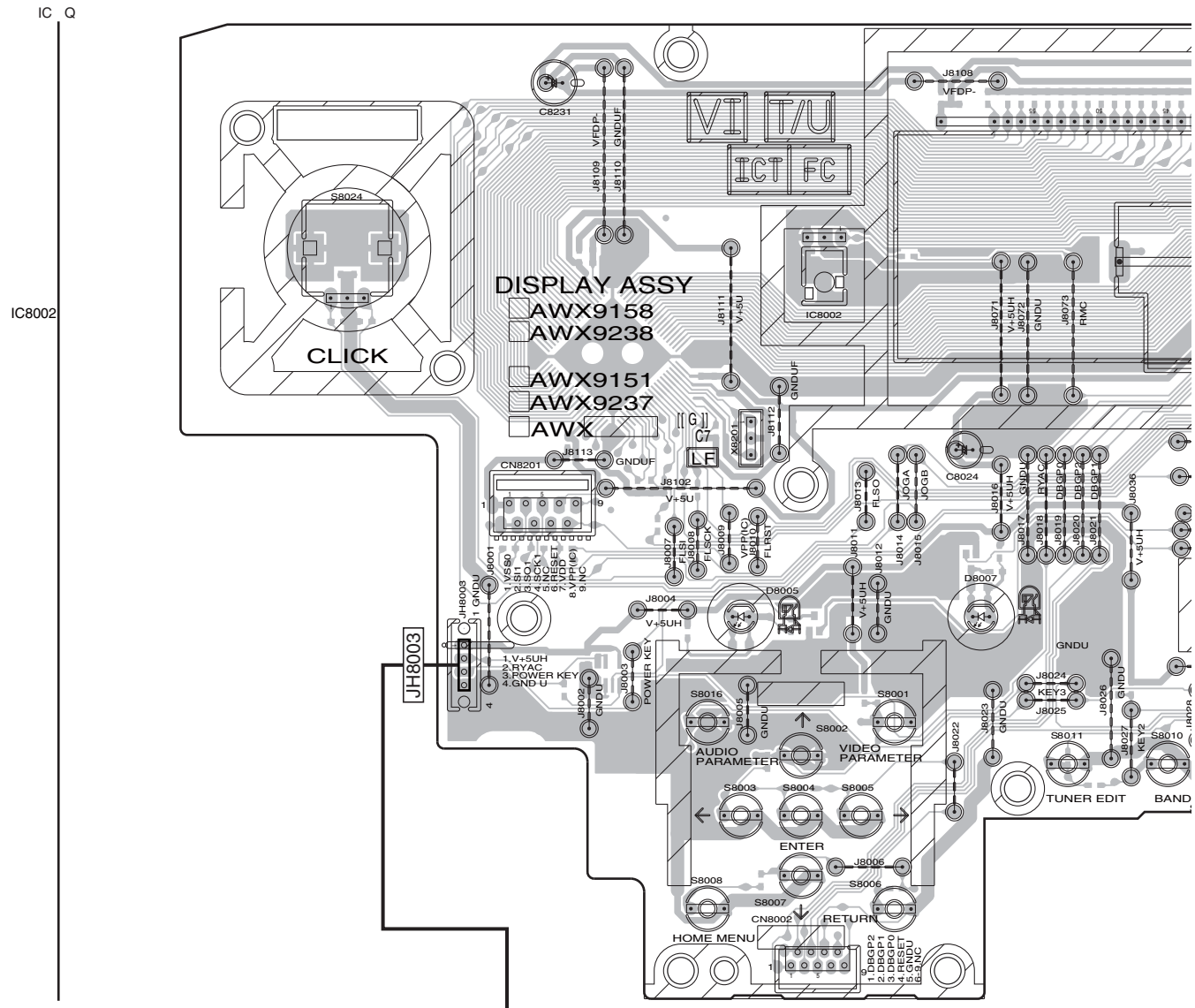


(ANP7654-B)

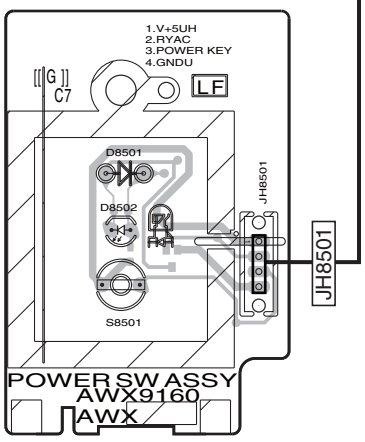
11.10 DISPLAY, POWER SW and VOL ASSYS

SIDE A

K DISPLAY ASSY



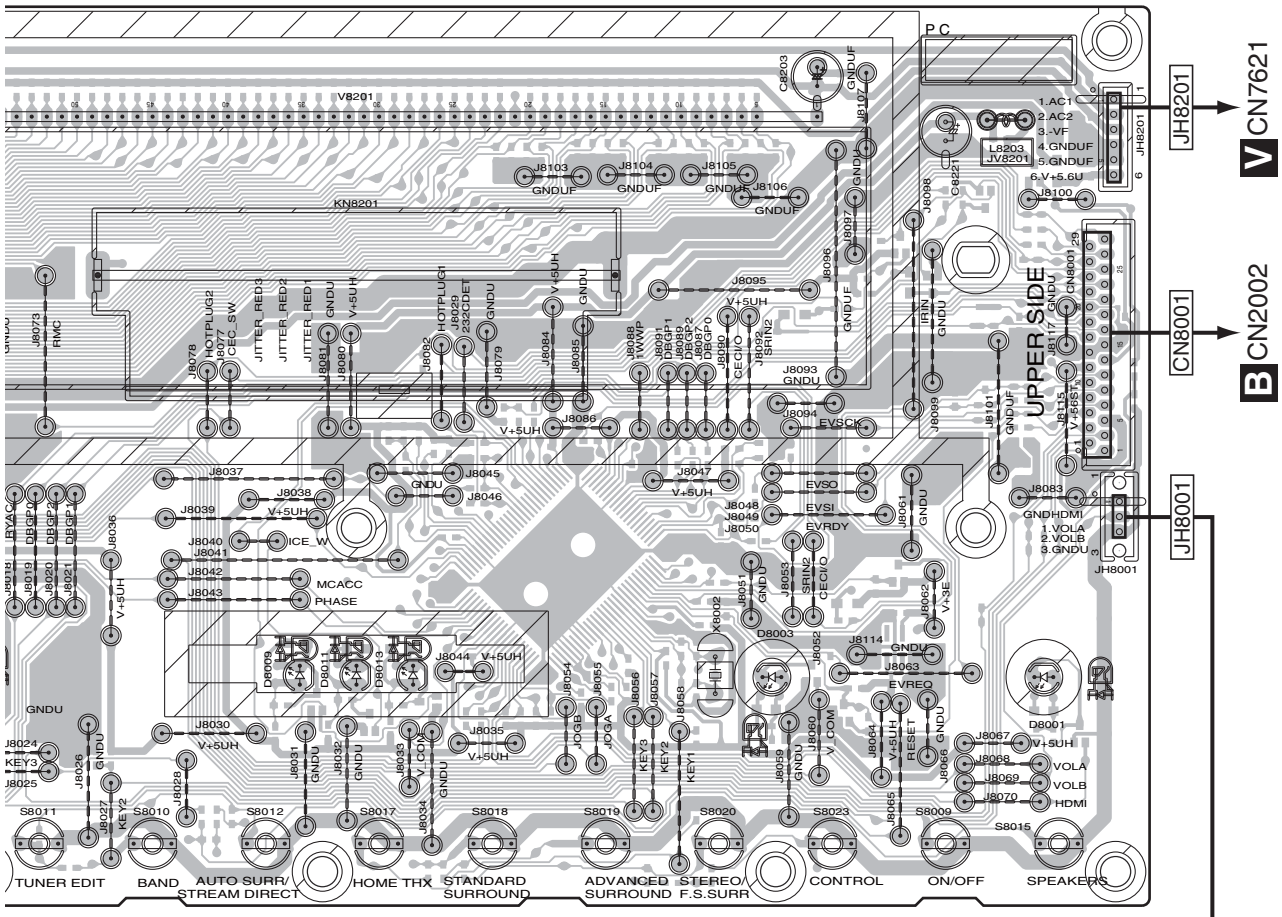
M POWER SW ASSY



(ANP7655-B)

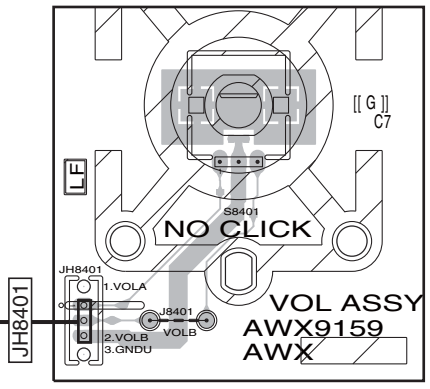
K M L

SIDE A



(ANP7655-B)

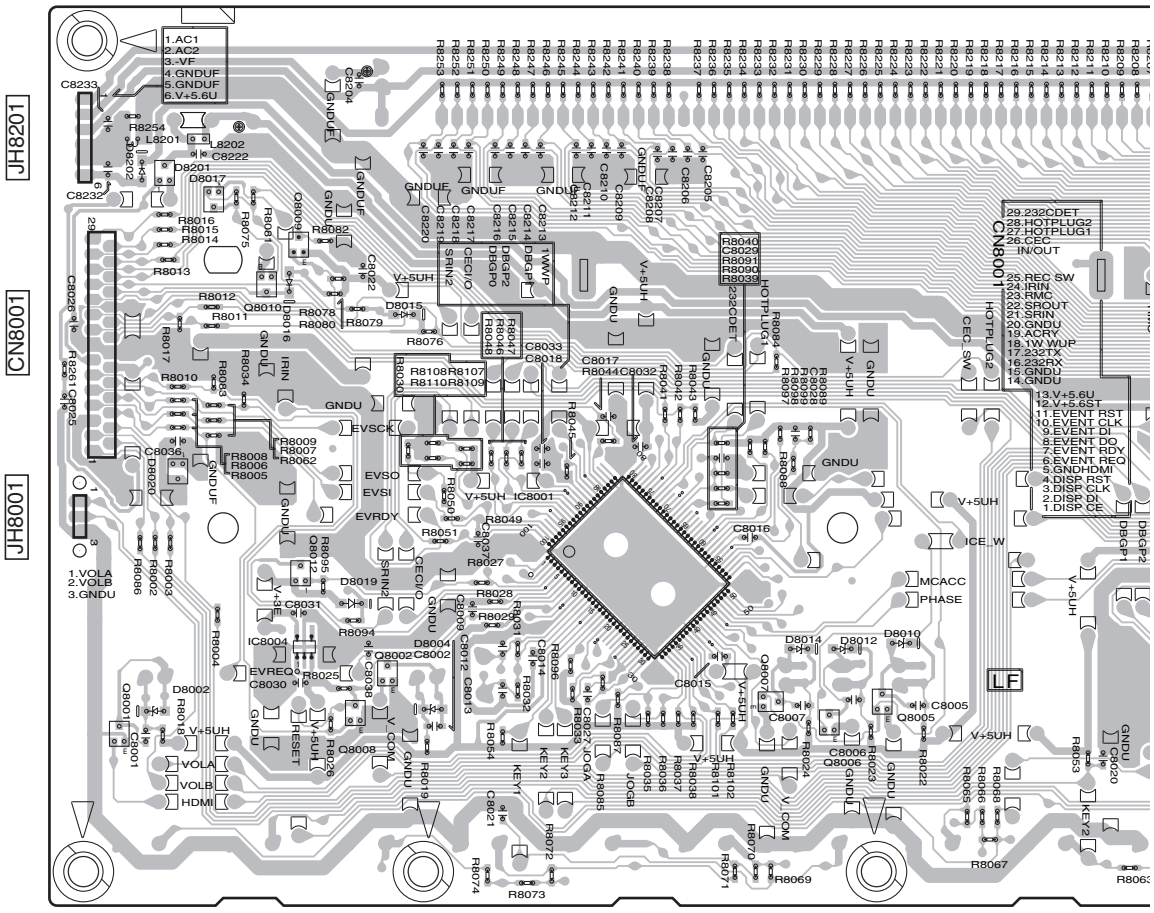
L VOL ASSY



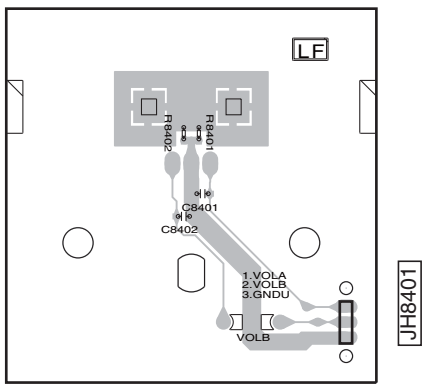
(ANP7655-B)

SIDE B

K DISPLAY ASSY



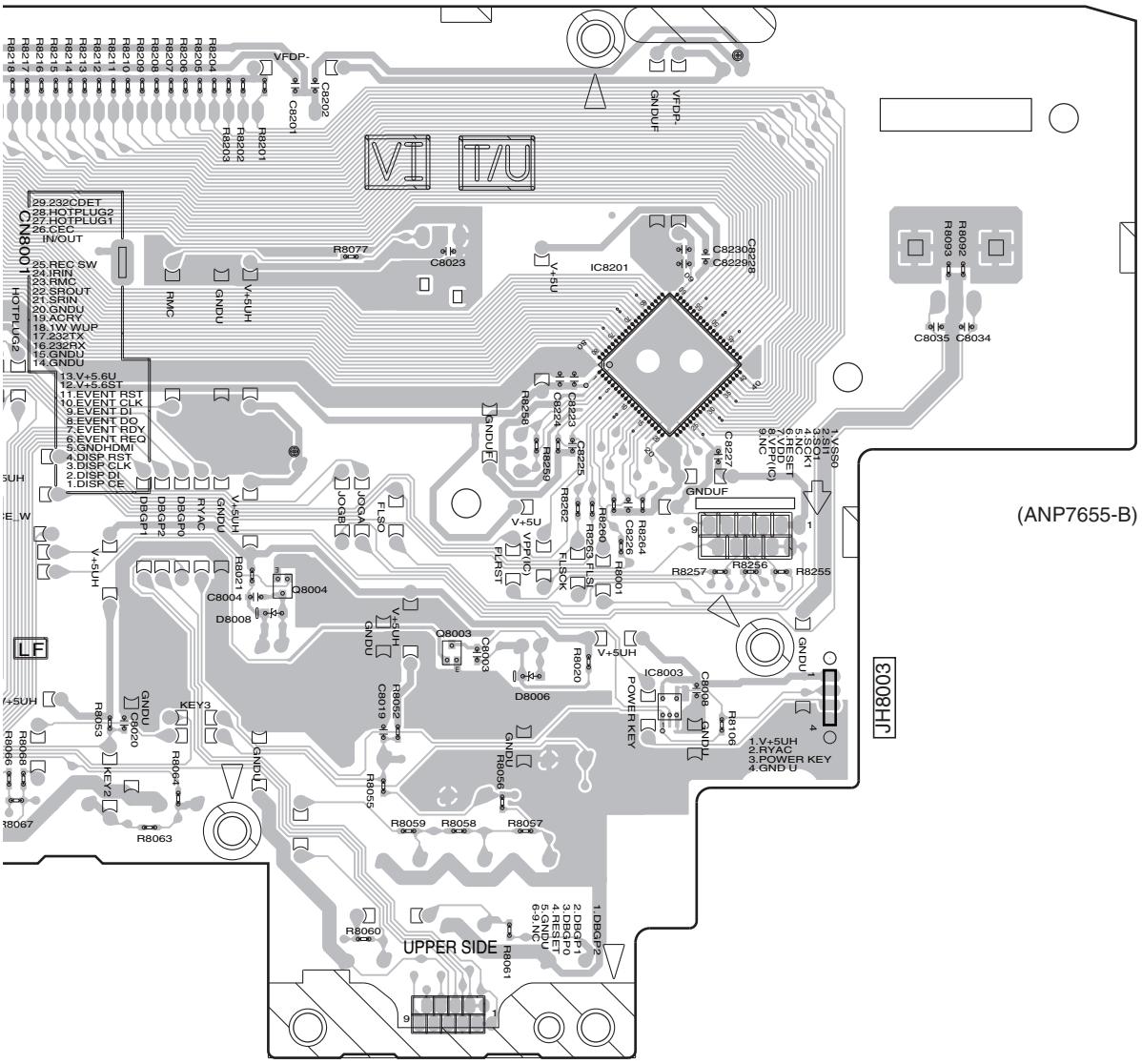
L VOL ASSY



(ANP7655-B)

K M L

SIDE B



(ANP7655-B)

M POWER SW ASSY

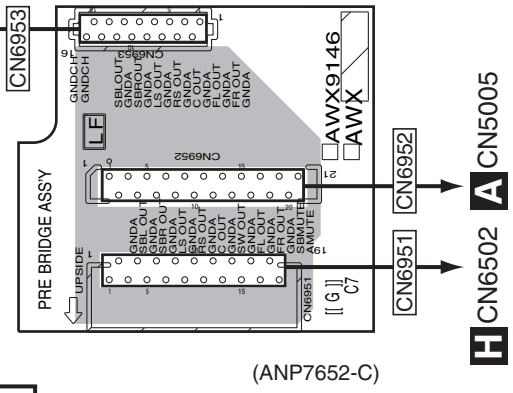
(ANP7655-B)

11.11 PRE BRIDGE, ICE BUFFER and ICE SHIELD ASSYS

SIDE A

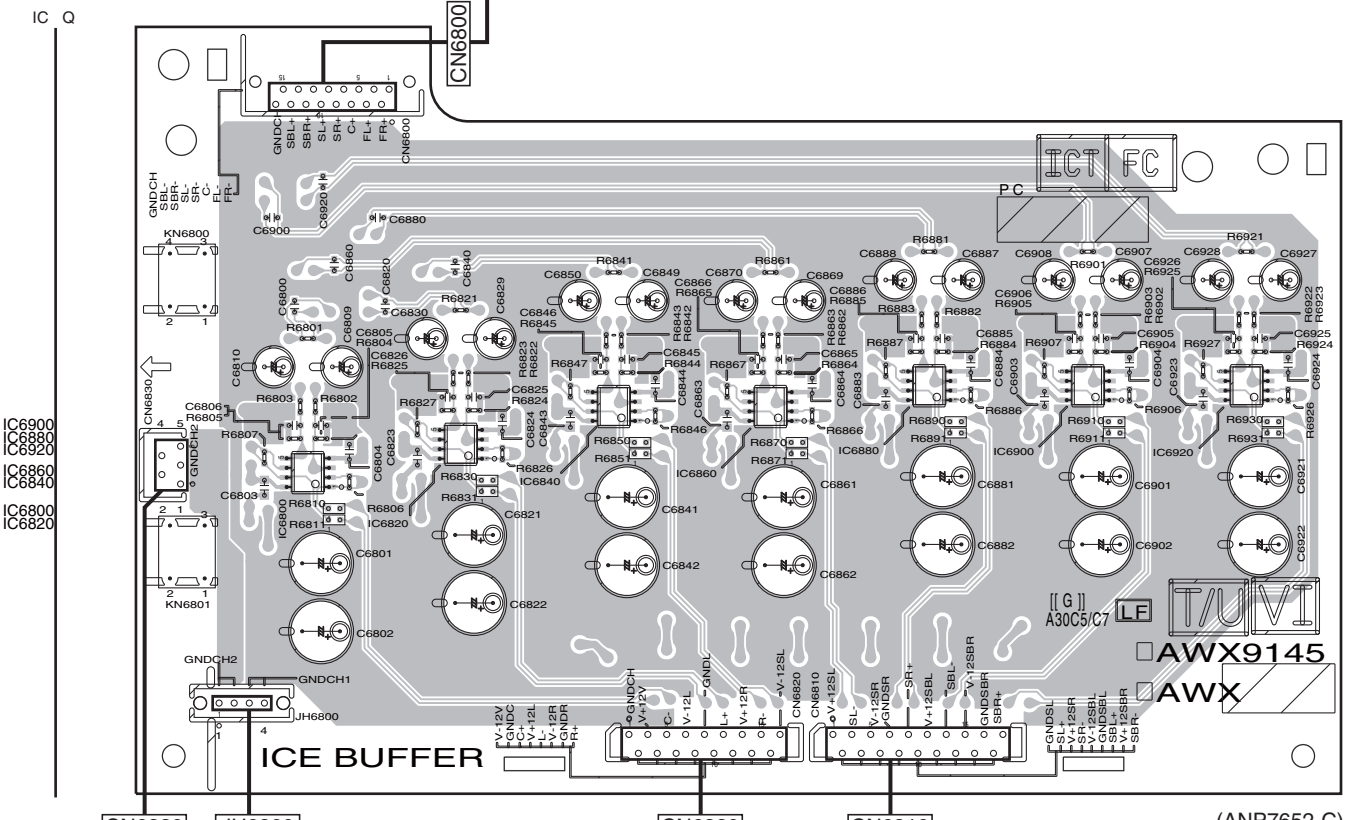
N PRE BRIDGE ASSY

SIDE A



(ANP7652-C)

O ICE BUFFER ASSY



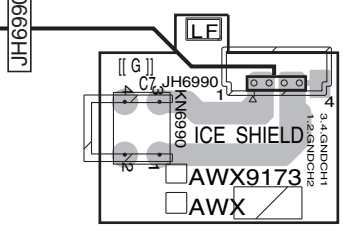
(ANP7652-C)

U CN5752

P CN3801

P CN3800

R ICE SHIELD ASSY

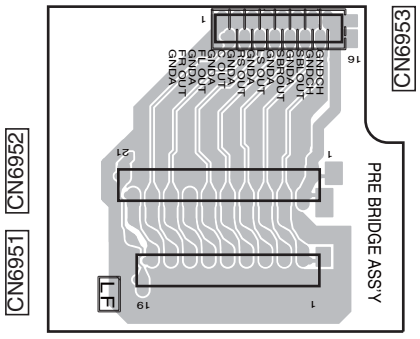


(ANP7652-C)

SIDE B

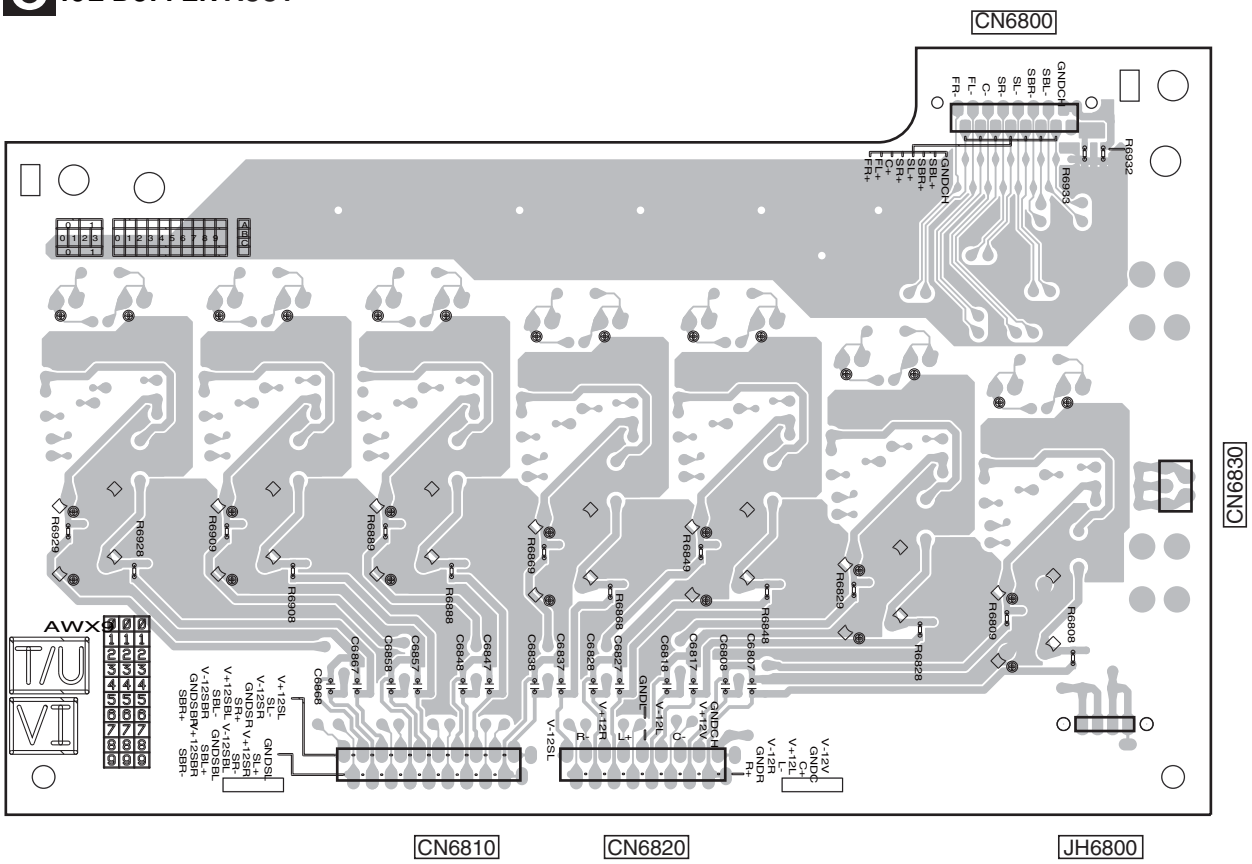
N PRE BRIDGE ASSY

SIDE B



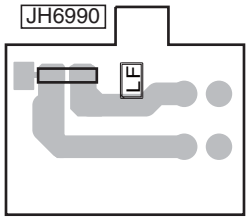
(ANP7652-C)

O ICE BUFFER ASSY



(ANP7652-C)

R ICE SHIELD ASSY



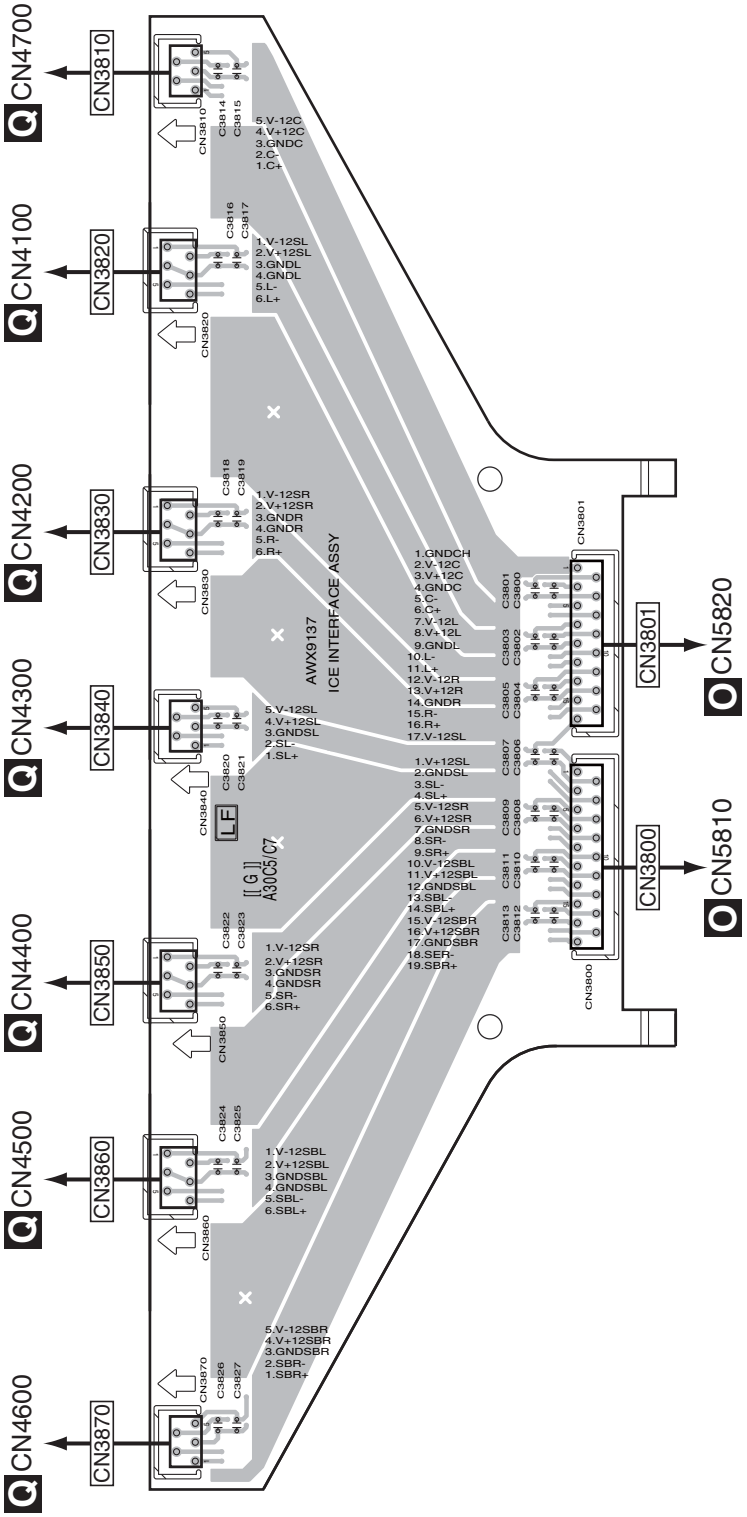
(ANP7652-C)

11.12 ICE INTERFACE ASSY

SIDE A

SIDE A

P ICE INTERFACE ASSY



(ANP7649-B)

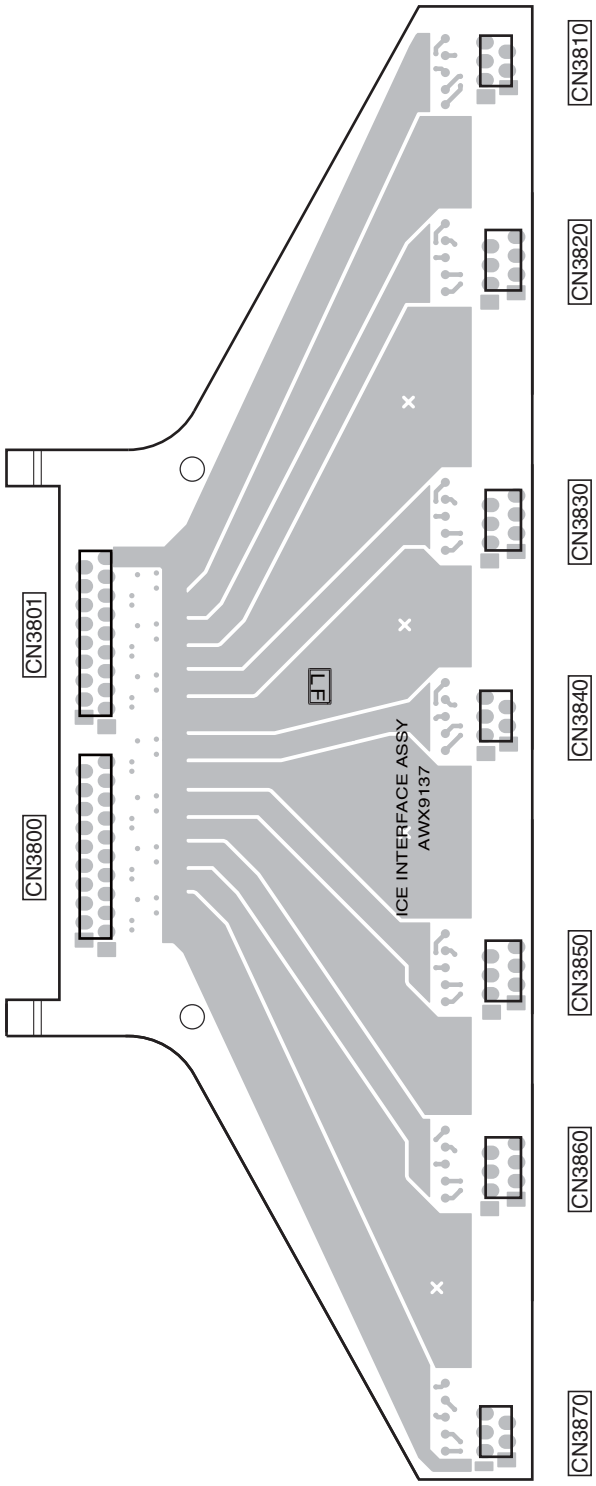
P

P

SIDE B

SIDE B

P ICE INTERFACE ASSY



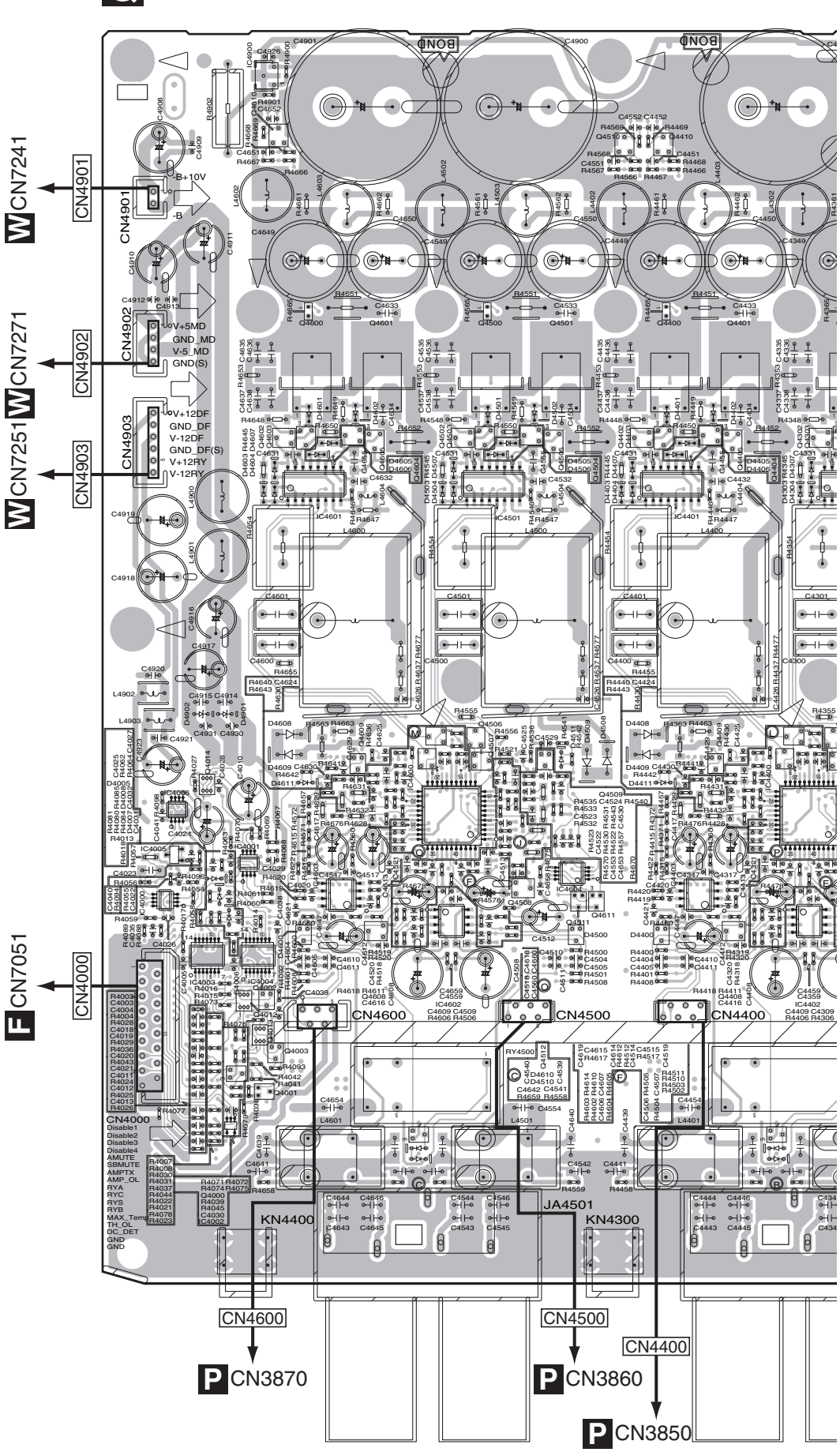
(ANP7649-B)

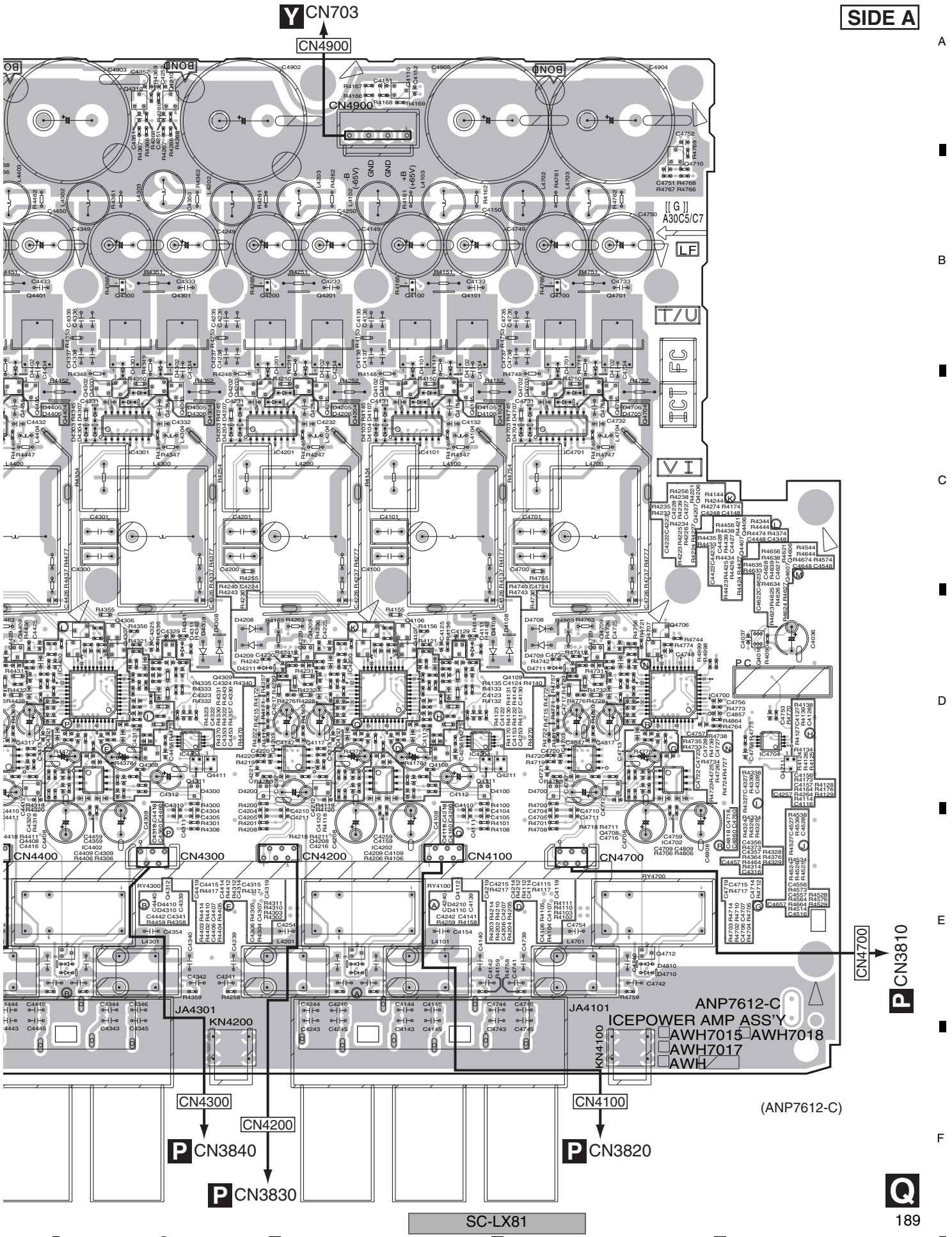
11.13 ICEPOWER AMP ASSY

SIDE A

Q ICEPOWER AMP ASSY

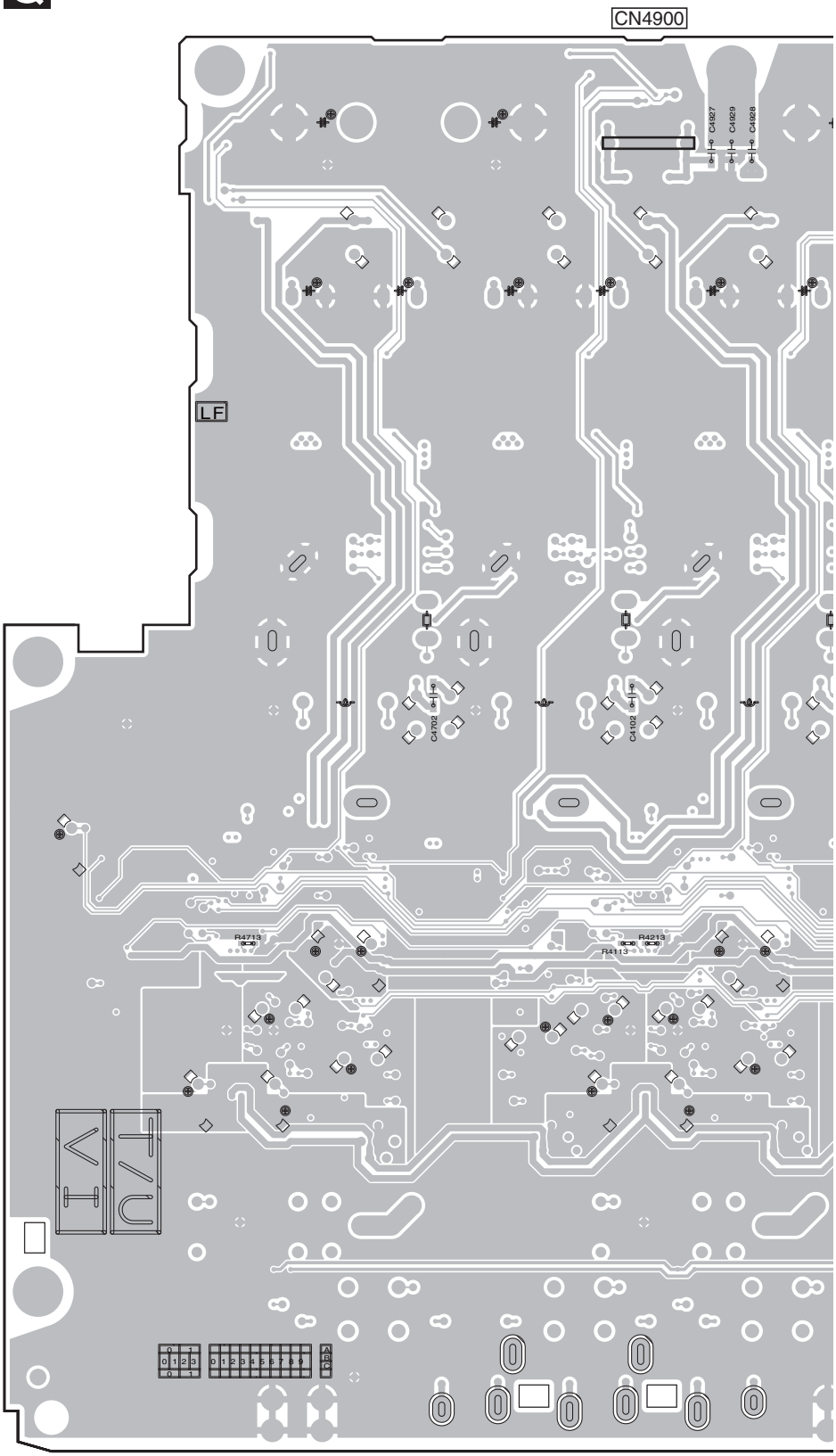
IC	Q
IC4900	Q4110 Q4210 Q4310
	Q4610
	Q4510 Q4410
	Q4710
	Q4500 Q4400 Q4300 Q4200 Q4100 Q4101 Q4700 Q4701 Q4501 Q4401 Q4301 Q4201 Q4601 Q4600
	Q4603 Q4602 Q4403 Q4202 Q4103 Q4502 Q4402 Q4303 Q4102 Q4702 Q4503 Q4302 Q4203 Q4703 Q4605 Q4505 Q4405 Q4305 Q4205 Q4105 Q4705 Q4304 Q4204 Q4104 Q4704 Q4604 Q4504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




Y CN703
CN4900
CN4900
[G]
A30C5/C7
LF
T/U
FC
FC
VI
P C
CN4400
CN4300
CN4200
CN4100
CN4700
RY4300
RY4100
RY4700
JA4301
KN4200
JA4101
KN4100
ANP7612-C
ICEPOWER AMP ASS'Y
AWH7015 AWH7018
AWH7017
AWH
(ANP7612-C)
CN4700
P CN3810
CN4300
P CN3840
CN4200
P CN3830
CN4100
P CN3820

SIDE B

Q ICEPOWER AMP ASSY



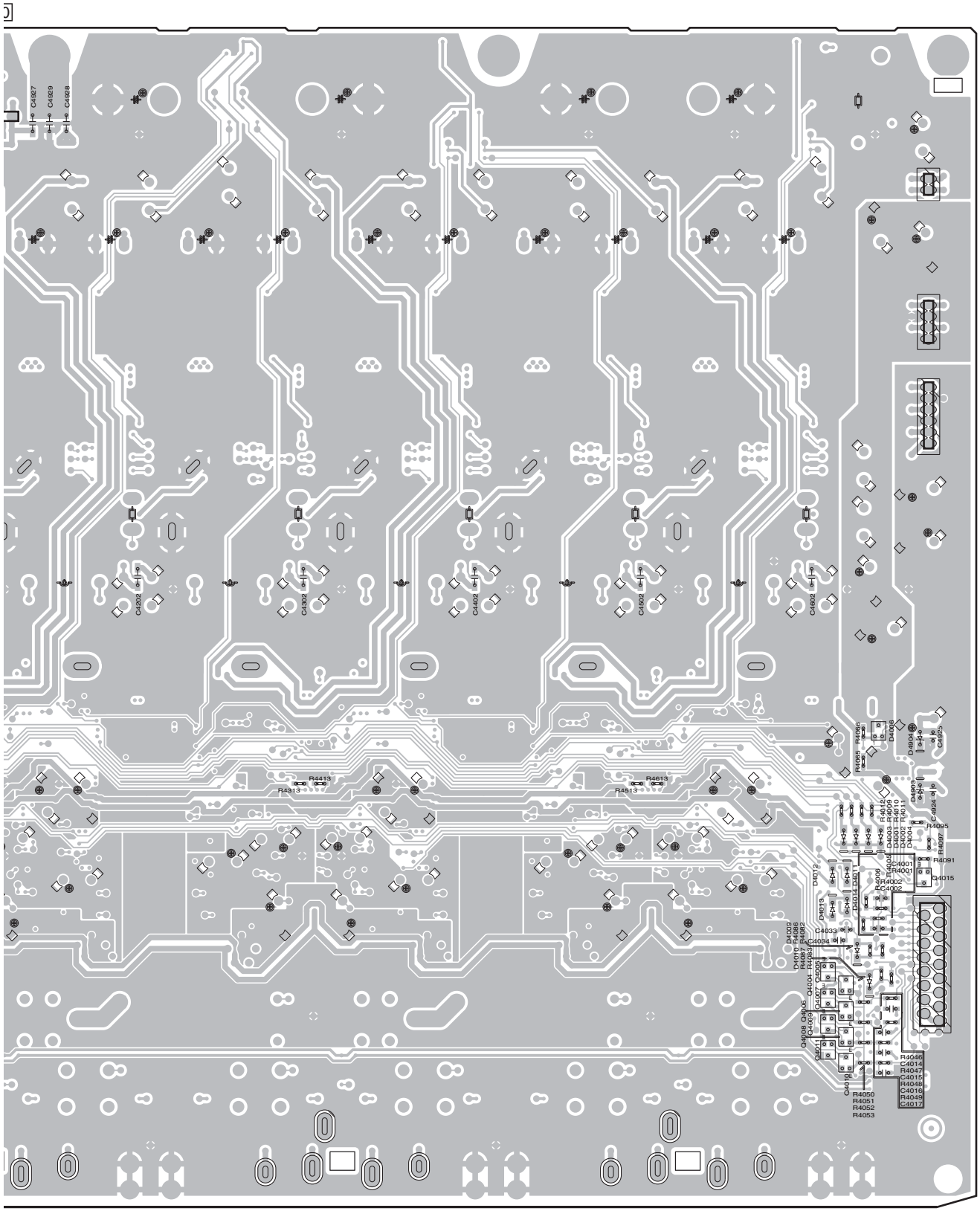
IC Q

Q4015

Q4004
Q4007
Q4006
Q4009 Q4011Q4005
Q4008

Q4010

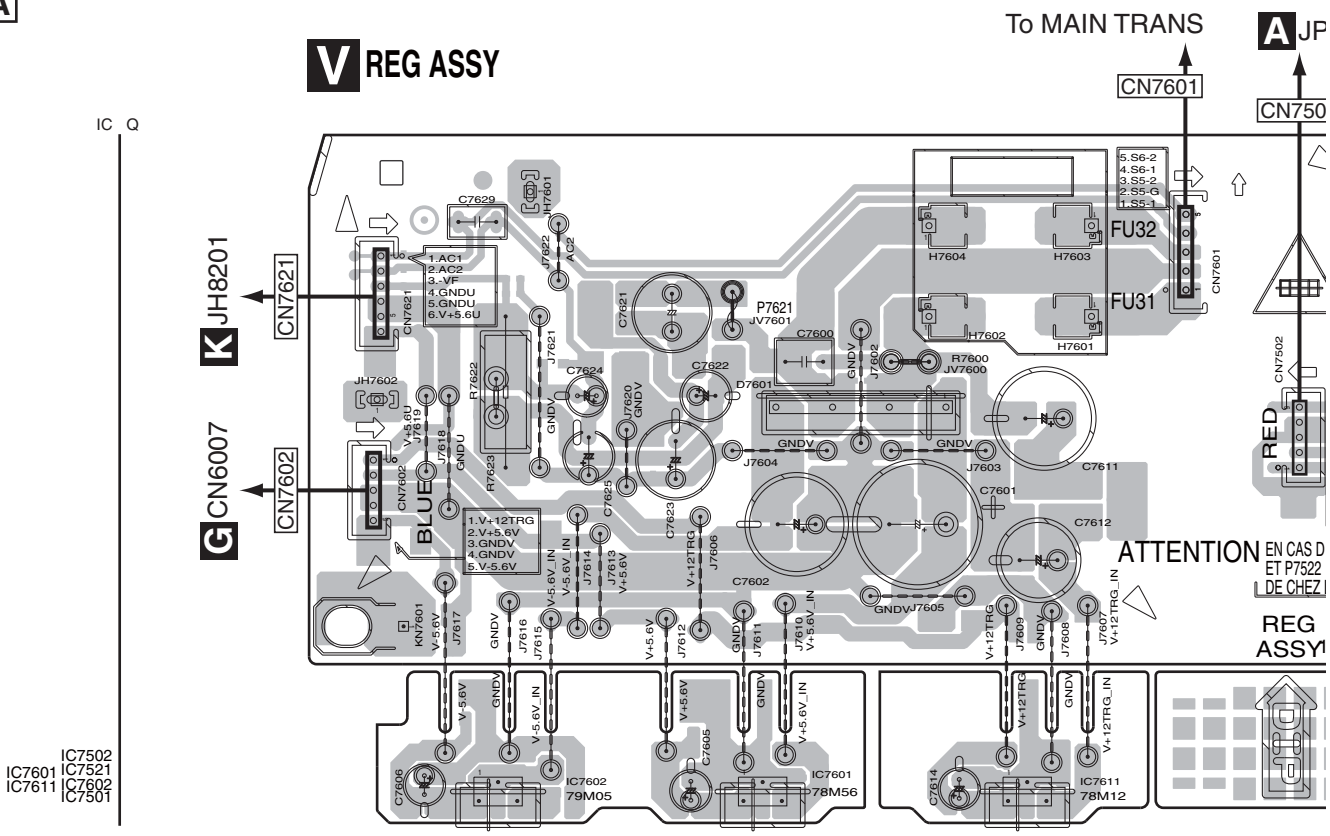
SIDE B

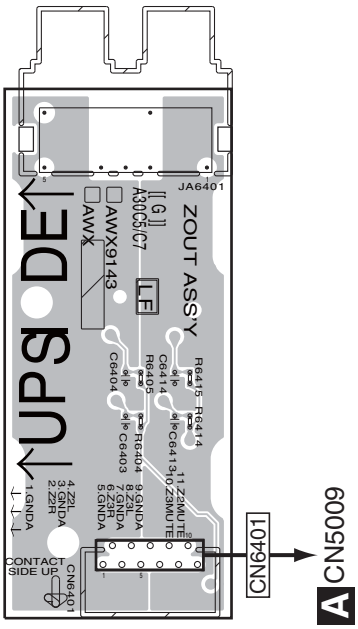


(ANP7612-C)

11.14 ZOUT, PRIMARY GUARD and REG ASSYS

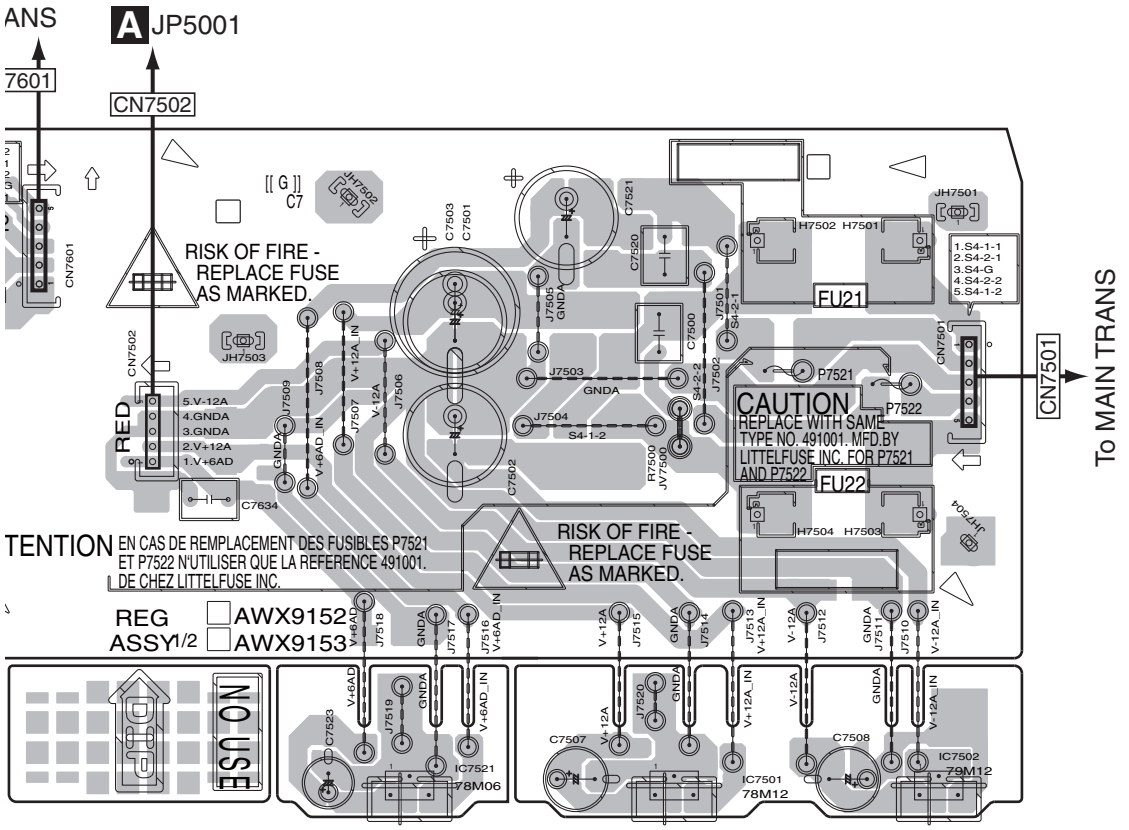
SIDE A



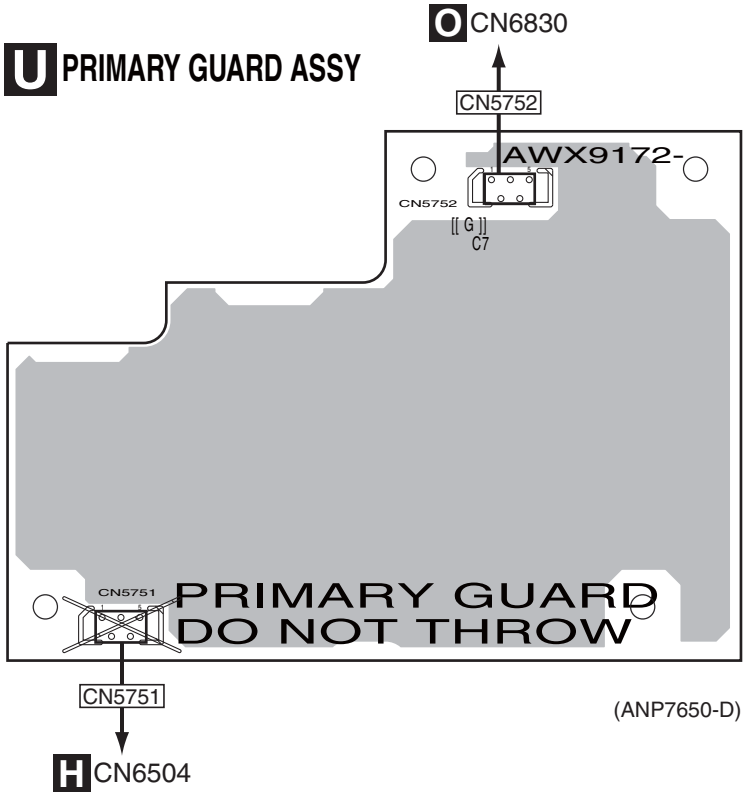


(ANP7651-B)

S U V



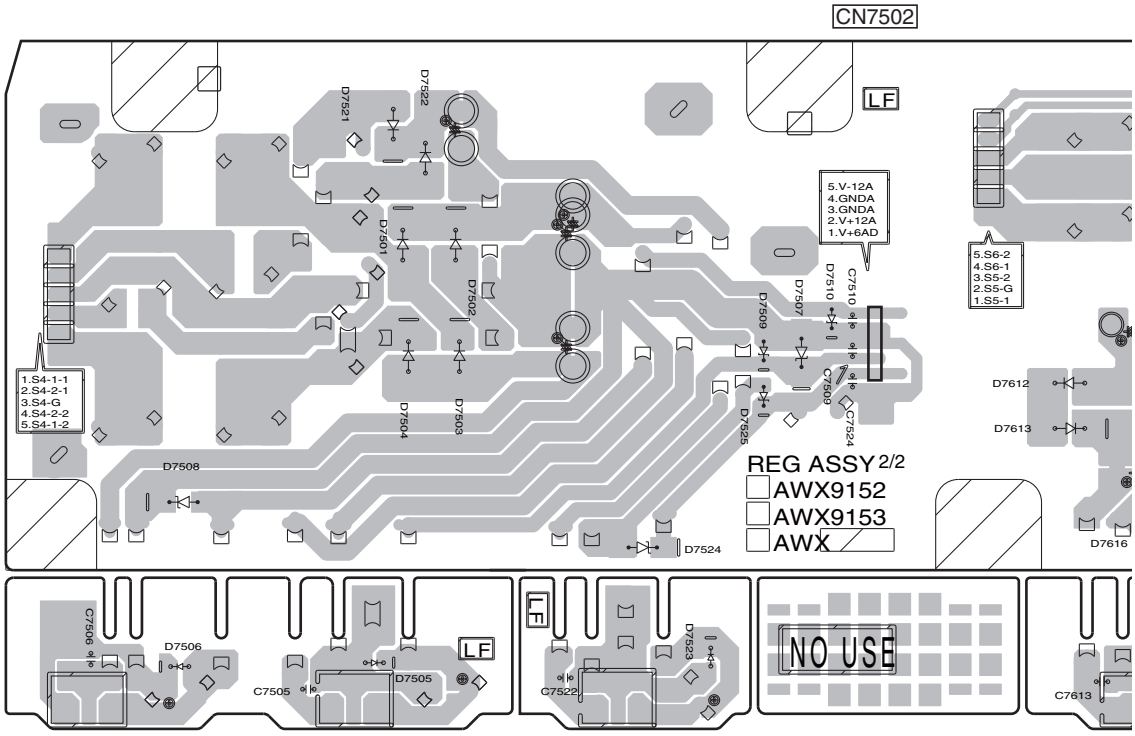
(ANP7654-B)



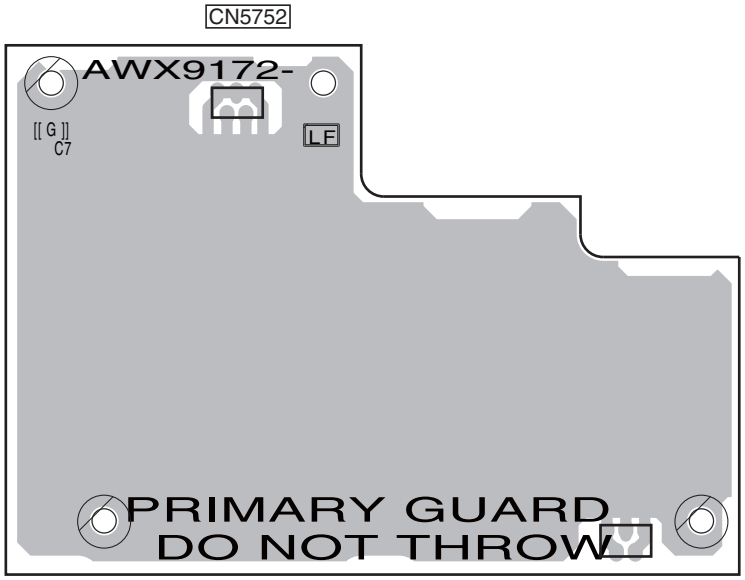
(ANP7650-D)

SIDE B

V REG ASSY



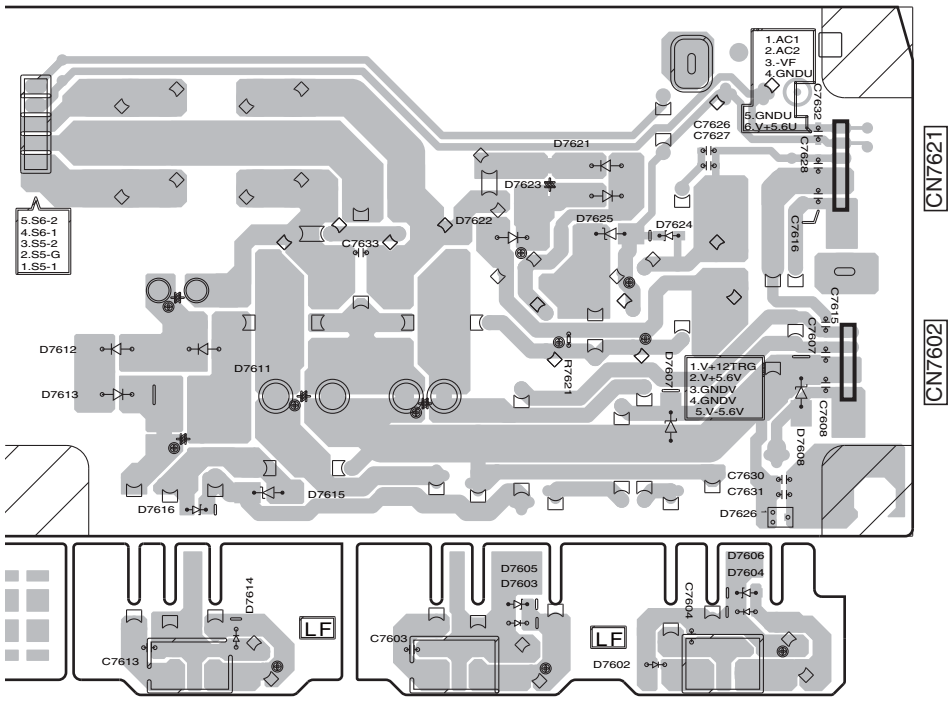
U PRIMARY GUARD ASSY



(ANP7650-D)

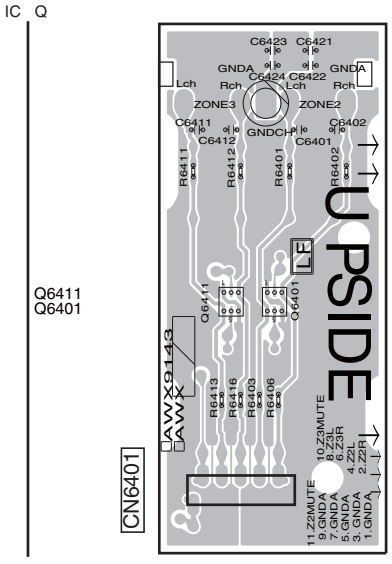
S U V

SIDE B



(ANP7654-B)

S ZOUT ASSY



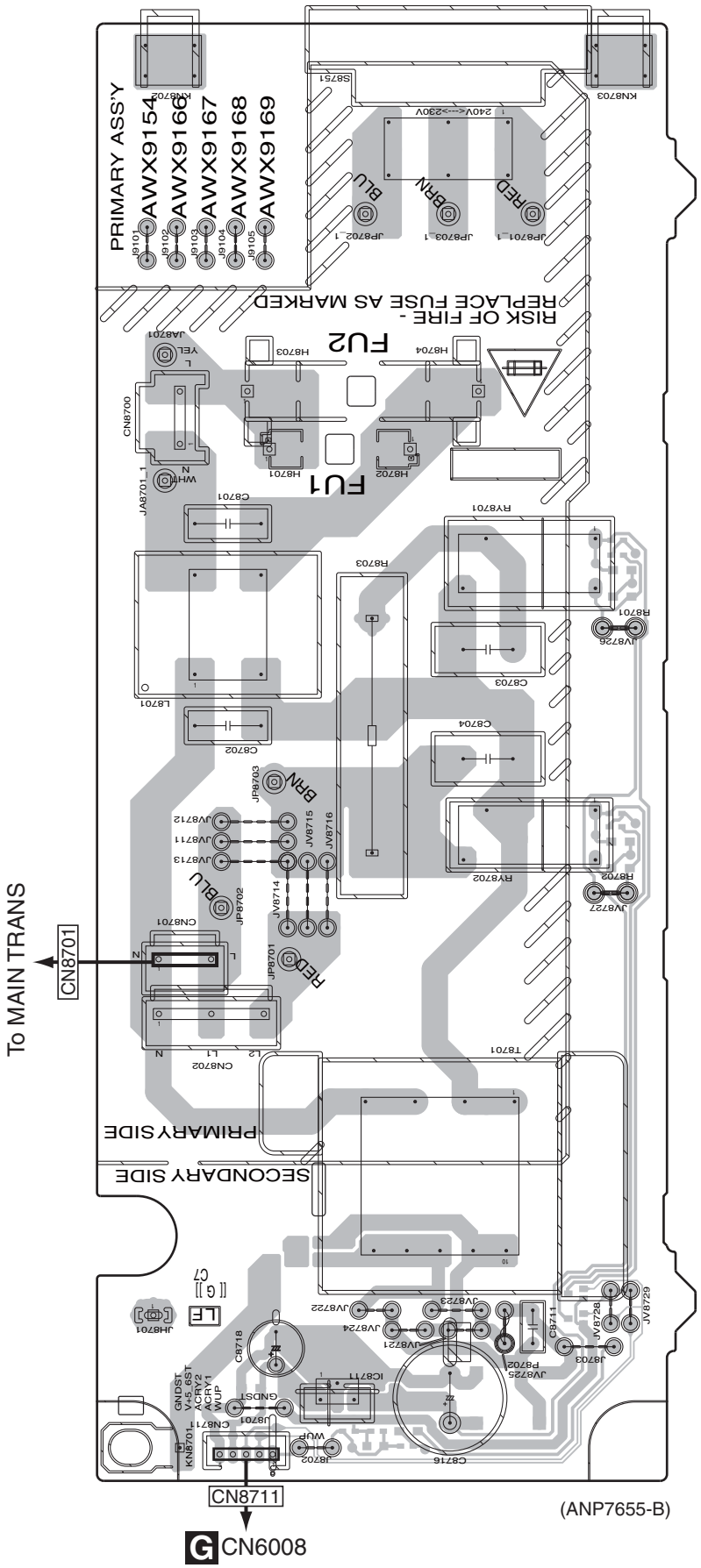
(ANP7651-B)

11.15 PRIMARY ASSY

SIDE A

T PRIMARY ASSY

SIDE A

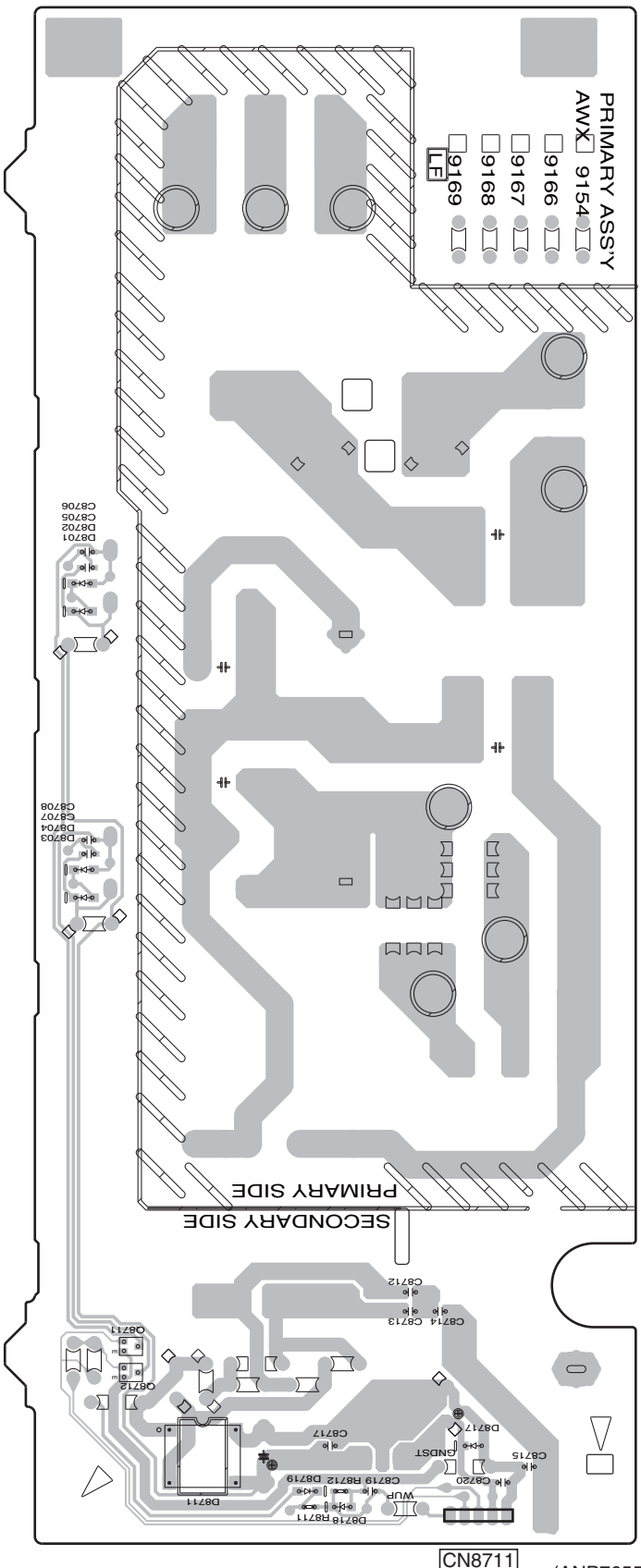


SIDE B

T PRIMARY ASSY

SIDE B

IC Q



Q8711

Q8712

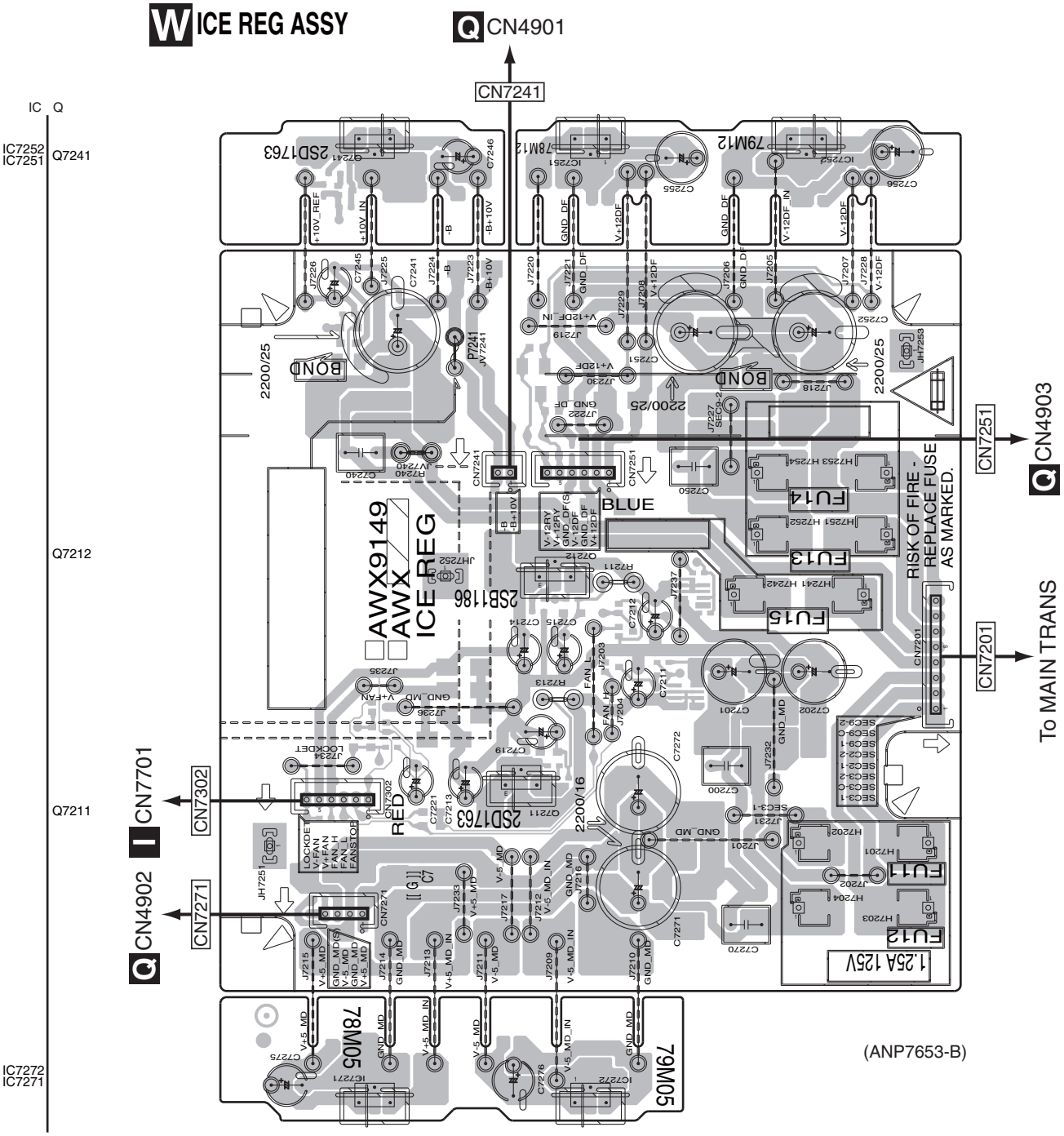
(ANP7655-B)

T

T

11.16 ICE REG ASSY

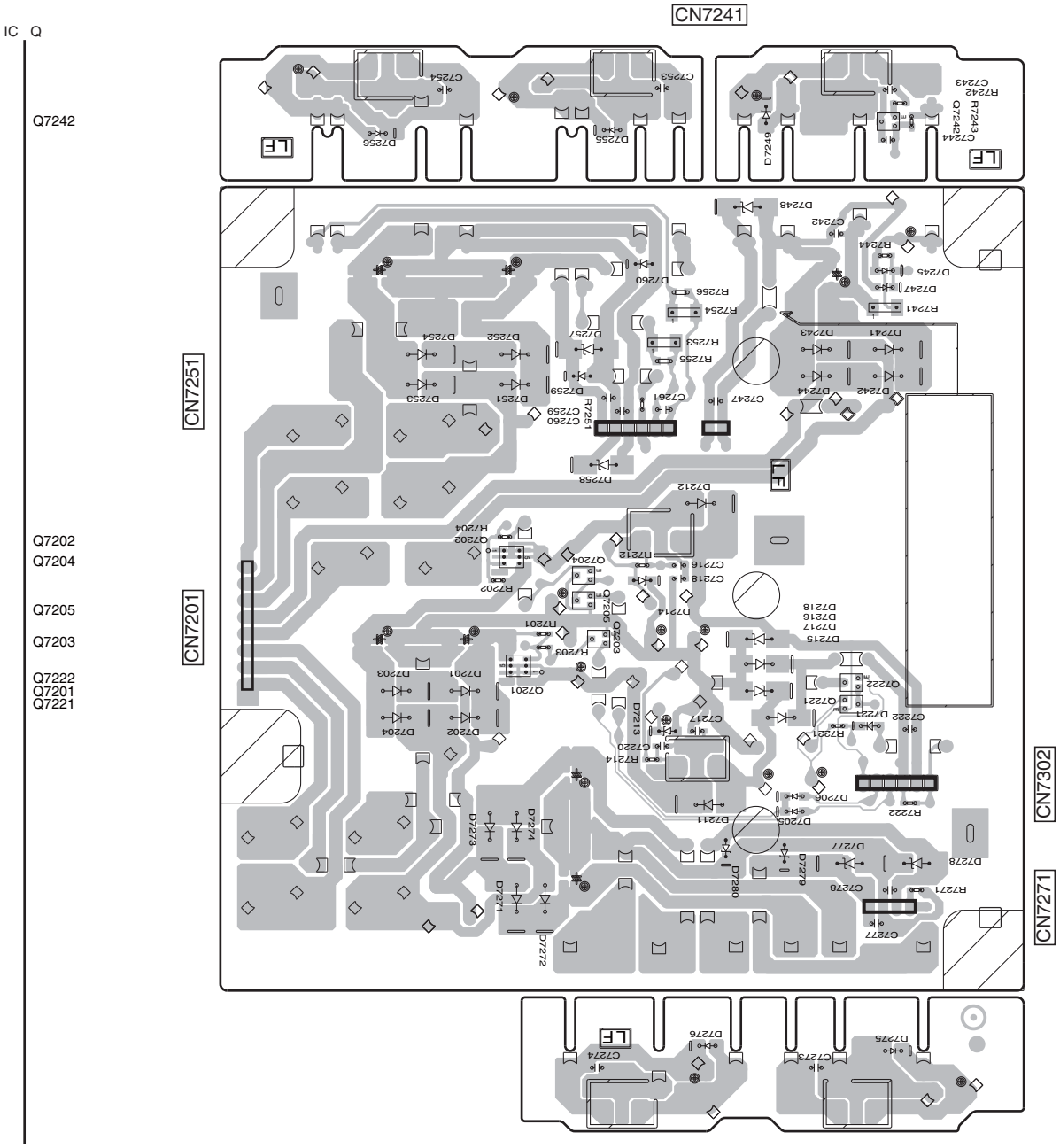
SIDE A **SIDE A**



W **W**

SIDE B

W ICE REG ASSY

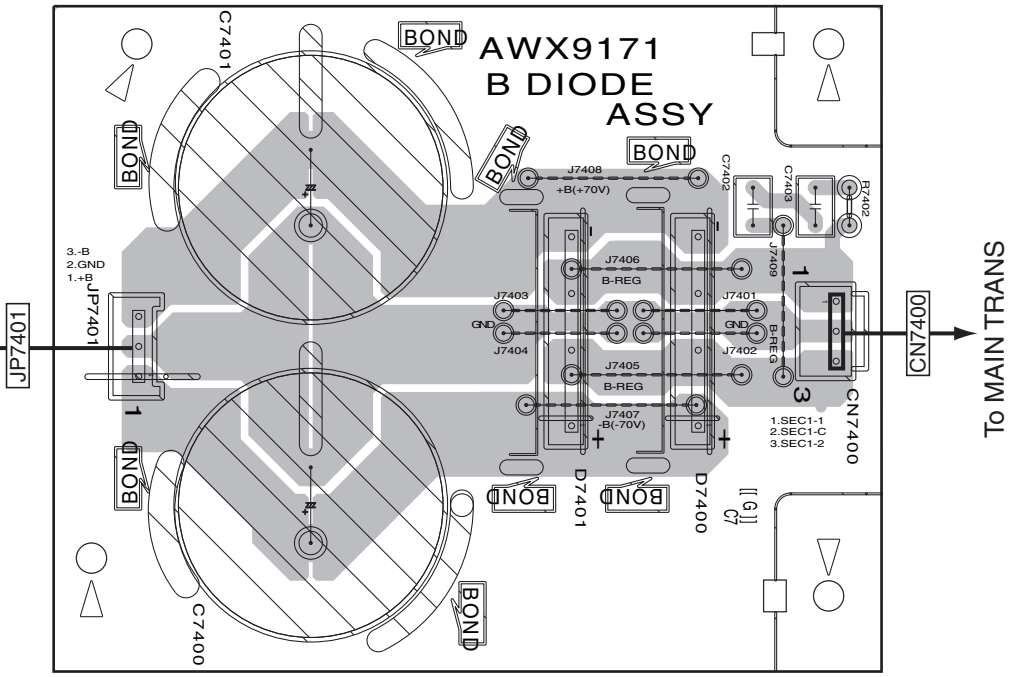


(ANP7653-B)

11.17 B DIODE and B REG ASSYS

SIDE A

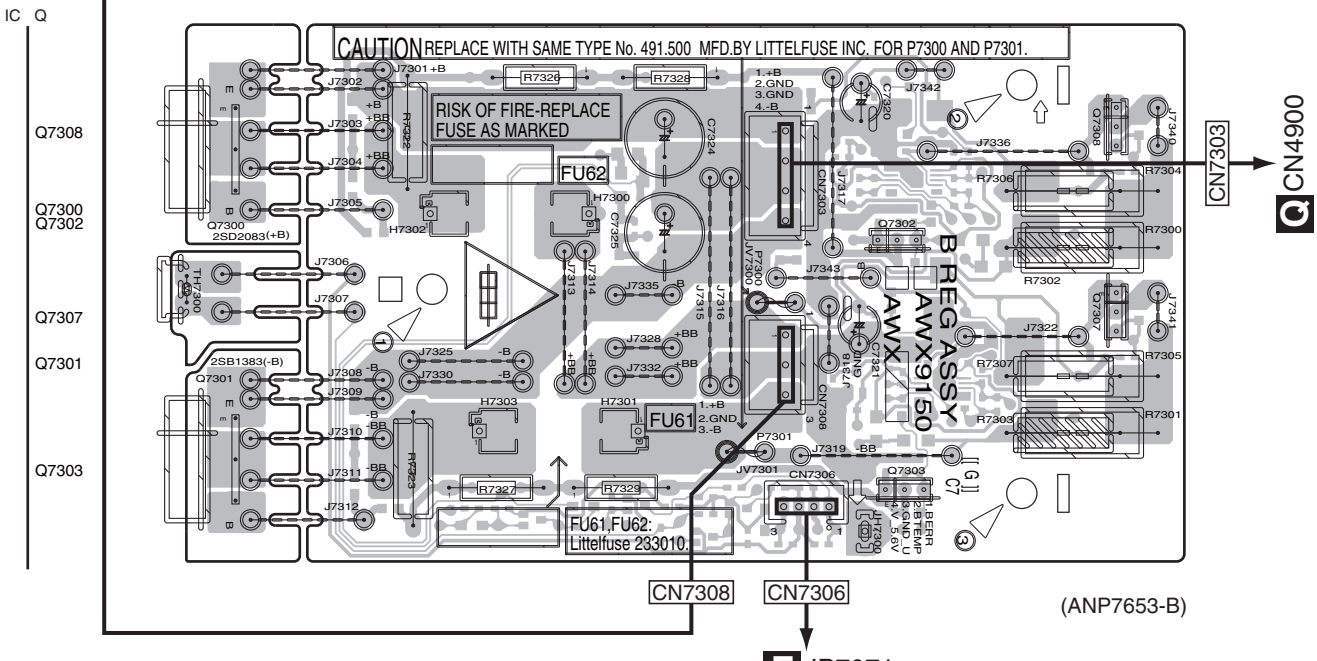
X B DIODE ASSY



(ANP7653-B)

SIDE A

Y B REG ASSY

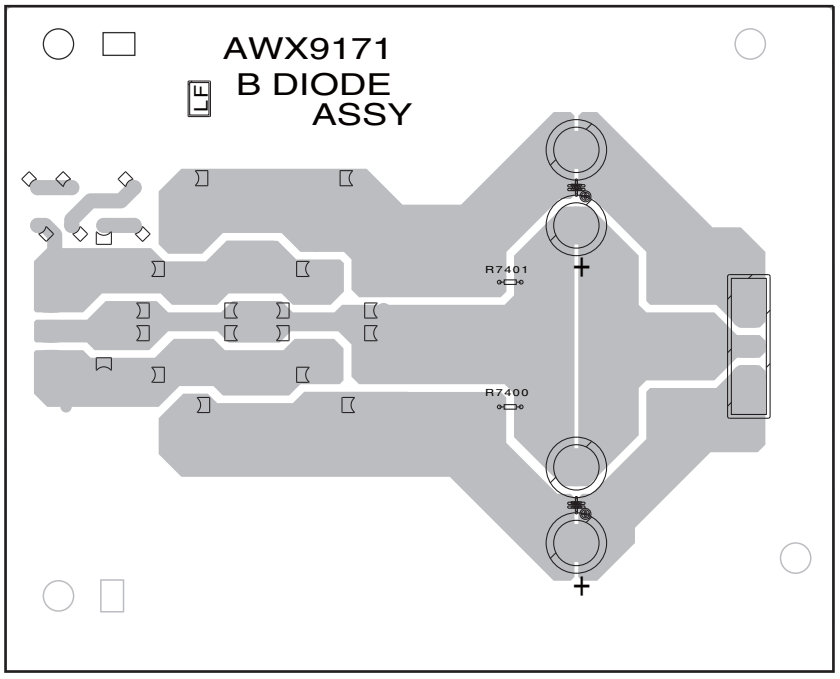


(ANP7653-B)

X **Y**

SIDE B

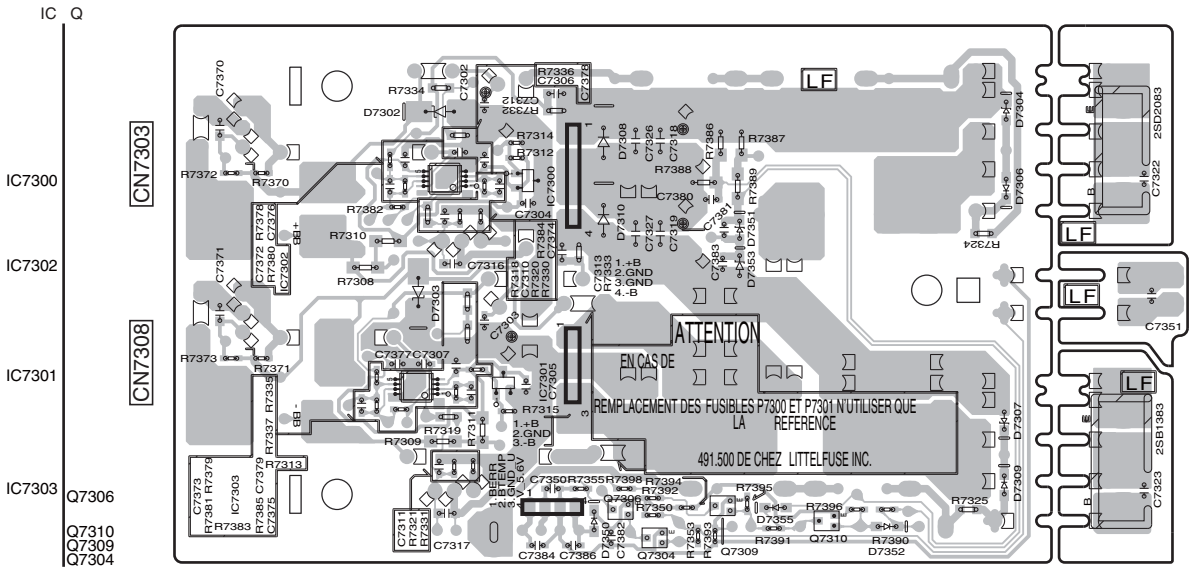
X B DIODE ASSY



(ANP7653-B)

SIDE B

Y B REG ASSY

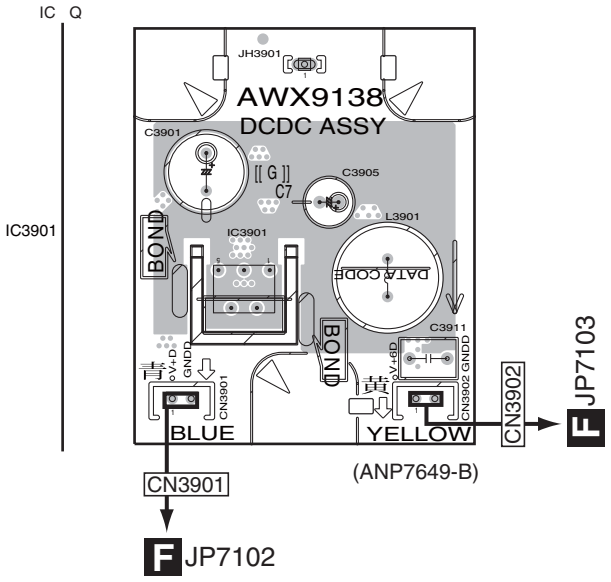


(ANP7653-B)

11.18 DCDC and HDMI RECT ASSYS

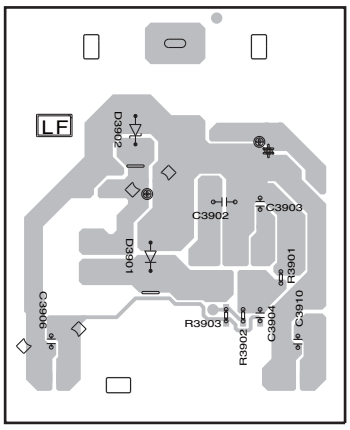
SIDE A **SIDE B**

Z DCDC ASSY



(ANP7649-B)

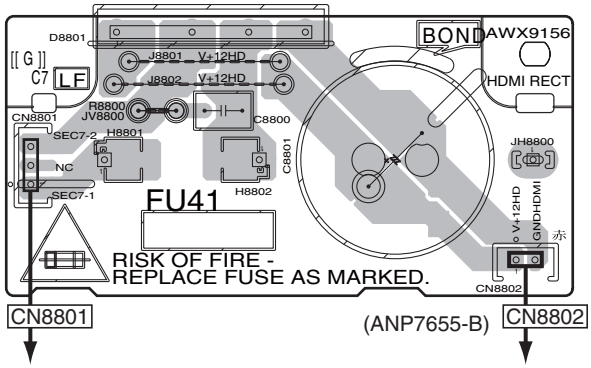
Z DCDC ASSY



(ANP7649-B)

SIDE A **SIDE B**

AA HDMI RECT ASSY

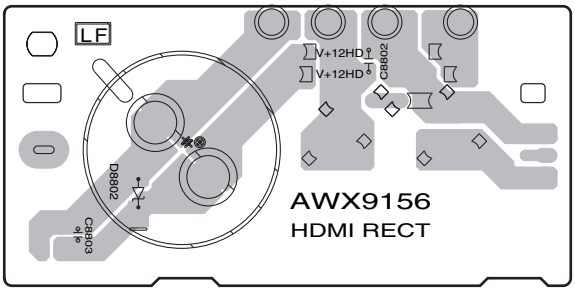


(ANP7655-B)

To MAIN TRANS

F JP7104

AA HDMI RECT ASSY



(ANP7655-B)

Z AA AA Z

12. ELECTRICAL 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*

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	ICEPOWER AMP ASSY	AWH7017
NSP	1	COMPOSITE ICE ASSY	AWM8106
	2	COMPOSITE S ASSY	AWX9144
	2	ICE BUFFER ASSY	AWX9145
	2	PRE BRIDGE ASSY	AWX9146
	2	ICE SHIELD ASSY	AWX9173
NSP	1	PRIM DISPLAY ASSY	AWM8120
	2	PRIMARY ASSY	AWX9166
	2	HDMI RECT ASSY	AWX9156
	2	DISPLAY ASSY (SC-LX81)	AWX9158
	2	DISPLAY ASSY (SC-LX71)	AWX9238
	2	VOL ASSY	AWX9159
	2	POWER SW ASSY	AWX9160
	2	V-BRIDGE ASSY	AWX9161
NSP	1	DIGITAL MOTHER ASSY	AWP7058
	2	D-MOTHER ASSY (SC-LX81)	AWX9196
	2	D-MOTHER ASSY (SC-LX71)	AWX9202
	2	ICE INTERFACE ASSY	AWX9137
	2	DCDC ASSY	AWX9138
	2	H GUARD2 ASSY	AWX9147
	2	H GUARD ASSY	AWX9174
NSP	1	COMPONENT FIN ASSY	AWQ7058
	2	COMPONENT ASSY (SC-LX81)	AWX9141
	2	COMPONENT ASSY (SC-LX71)	AWX9211
	2	FRONT IN ASSY	AWX9142
	2	ZOUT ASSY	AWX9143
NSP	1	INTERFACE REG ASSY	AWR7067
	2	INTERFACE ASSY	AWX9148
	2	ICE REG ASSY	AWX9149
	2	B REG ASSY	AWX9150
	2	B DIODE ASSY	AWX9171
NSP	1	FBRIDGE REG ASSY	AWR7068
	2	REG ASSY	AWX9152
	2	FRONT BRIDGE ASSY	AWX9155
NSP	1	AUDIO ASSY	AWR7071
	2	AUDIO ASSY	AWX9206
	2	232C CONTROL ASSY	AWX9209
	2	PRIMARY GUARD ASSY	AWX9172
	1	HDMI NETWORK ASSY (SC-LX81)	AWX9234
	1	HDMI NETWORK ASSY (SC-LX71)	AWX9235
	1	FM/AM TUNER UNIT	AXX7248

CONTRAST OF PCB ASSEMBLIES

G COMPONENT ASSY

AWX9141 and AWX9211 are constructed the same except for the following:

Mark	Symbol and Description	AWX9141	AWX9211
	IC6002, IC6004 Multiplexer(4chx2)	TC74LVX4052FT	Not used
	IC6008 Video IC	NJM2581M	Not used
	JA6003 Pin Jack(6p)	AKB7204	Not used
	JA6005 Pin Jack(3p)	Not used	AKB7203
	R6043-R6045	RS1/16S750J	Not used
	R6108	RS1/16S103J	Not used
	C6050, C6051, C6055-C6057	CEAT101M10	Not used
	C6058, C6059, C6148, C6151, C6158, C6161	CKSRYB105K10	Not used
	C6060, C6061, C6149, C6150, C6159, C6160	CCSRCH102J50	Not used
	C6131-C6136	CKSRYB103K50	Not used

K DISPLAY ASSY

AWX9158 and AWX9238 are constructed the same except for the following:

Mark	Symbol and Description	AWX9158	AWX9238
	R8015, R8084	Not used	RS1/16S0R0J

A AUDIO ASSY

Mark	No.	Description	Part No.
		SEMICONDUCTORS	
IC	5001,5282,5302,5401		NJM4565MD
IC	5201		BD3473KS2
IC	5221		BD3814FV
IC	5255,5351		TC4053BFN
IC	5301		TC4066BFN
IC	5651		LC72725KM
Q	5269,5301,5351		RT1N241M
Q	5302		RT1P241M
Q	5401,5402		2SK208
Q	5431		IMX25
Q	5451		RT3T22M
Q	5453		RT1N140M
⚠ Q	5501		2SD1858X
⚠ Q	5502		2SB1237X
⚠ Q	5601		2SD1664
D	5201,5301,5302		1SS302
D	5401,5402,5451,5452		1SS352
D	5501,5502		UDZS7R5(B)
D	5602		UDZS10(B)
D	5651		1SS352
		MISCELLANEOUS	
L	5651	CHIP SOLID INDUCTOR	QTL1013
JA	5001,5002	PIN JACK(4P)	XKB3017
JA	5004-5009	PIN JACK(4P)	XKB3017
RY	5451	RELAY	VSR1017
X	5651	CRYSTAL RESONATOR (4.332 MHz)	ASS7004
CN	5002	CONNECTOR	CKS3384
CN	5003	CONNECTOR	CKS3386
CN	5004	13P CONNECTOR	52044-1345
CN	5005	17P CONNECTOR	52044-1745
CN	5006	21P SOCKET	XKP3081
CN	5007	9P CONNECTOR	52044-0945
CN	5008	11P CONNECTOR	52044-1145
CN	5009	CONNECTOR	CKS3376
JH	5001	PCB BINDER	VEF1040
JP	5001	5P HOUSING ASSY	ADX7653
		RESISTORS	
R	5413,5414		RD1/4MUF330J
	Other Resistors		RS1/16S###J
		CAPACITORS	
C	5001,5002,5403,5404		CCSRCH221J50
C	5003,5004,5017,5018		CEAT100M50
C	5005,5006,5201,5203		CCSRCH331J50
C	5007,5008,5019,5020		CEAT470M16
C	5009,5010,5653		CCSRCH561J50
C	5011,5012		CKSRYB822K50
C	5013-5016		CKSRYB122K50
C	5021,5022,5232,5234		CKSRYB104K16
C	5031-5034,5041,5042		CCSRCH101J50
C	5035,5038,5055,5056		CEAT220M50
C	5043,5044,5113,5114		CCSRCH220J50
C	5045,5046,5115,5116		CEAT100M50
C	5051-5054,5071-5074		CCSRCH101J50
C	5075,5076,5085,5086		CEAT220M50
C	5081-5084,5091-5094		CCSRCH101J50
C	5095,5096,5105,5106		CEAT220M50
C	5101-5104,5111,5112		CCSRCH101J50
C	5121-5124,5131,5132		CCSRCH101J50
C	5125,5126,5145,5146		CEAT220M50
C	5133,5134		CCSRCH220J50
C	5135,5136,5221,5222		CEAT100M50
C	5141-5144,5151-5154		CCSRCH101J50
C	5155,5156,5165,5166		CEAT220M50
C	5161-5164,5171-5174		CCSRCH101J50
C	5175,5176,5185,5186		CEAT220M50
C	5181-5184,5205,5206		CCSRCH101J50
C	5202,5204		ACH1479
C	5207,5208		CEAT220M50
C	5209,5210		CFHXSQ103J16
C	5223,5224,5227,5228		CEAT2R2M50
C	5225,5226,5271-5278		CEAT100M50
C	5231,5233,5411,5412		CEAT470M16
C	5235,5236,5282,5303		CCSRCH101J50
C	5265,5266,5285,5286		CKSRYB103K50
C	5290,5503,5504,5656		CEAT100M50
C	5301,5302,5305,5306		CKSRYB103K50
C	5304		CCSRCH101J50
C	5307,5308		ACH7196
C	5351,5352,5421,5423		CKSRYB103K50
C	5356,5357,5508,5510		CCSRCH102J50
C	5401,5402		CEAT1R0M50
C	5409,5410		CEAT471M16
C	5419,5420		CKSRYB105K16
C	5422,5424		CEAT470M25
C	5431,5432,5601,5605		CKSRYB103K50
C	5451,5603,5606		CEAT101M16
C	5501,5502		CEAT2R2M50
C	5511,5611,5652		CCSRCH102J50
C	5602,5708,5710,5712		CKSRYB104K16
C	5607,5621,5622		CCSRCH100D50
C	5613		CCSRCH331J50
C	5651		CEAT101M10
C	5654,5705		CKSRYB103K50
C	5655,5657		CCSRCH270J50
C	5658		CKSRYB472K50
C	5701,5703,5709,5711		CKSRYB471K50
C	5702,5704		CKSRYB104K50
C	5713,5715,5719		CKSRYB471K50
C	5714,5718		CKSRYB104K16

B D-MOTHER ASSY (SC-LX81)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC	2001	PEG489B8
	IC	2002,2003,2203,2204	TC4094BFN
	IC	2005	BU4842F
	IC	2006	TC74LCX244FTS1
	IC	2007,2008,2406	TC74VHCT125AFTS1
	IC	2009	TC74VHCT541AFTS1
⚠	IC	2011,2412	NJM2880U1-33
	IC	2201	PEG396A
	IC	2202	AYW7256
	IC	2205,2211,2408,2409	TC74VHC125FTS1
	IC	2206	TC74VHC32FTS1
	IC	2207,2407,2709,2805	TC74VHC08FTS1
	IC	2208	TC74VHCT08AFTS1
	IC	2209	TC74VHC04FTS1
	IC	2210	TC74VHC00FTS1
	IC	2213	TC7SH04FUS1
	IC	2401	AK4114VQ
	IC	2403,2404,2803	TC74LCX157FTS1
	IC	2410,2411,2707	TC7SH08FUS1
⚠	IC	2413,2983	NJM2845DL1-05
	IC	2414	TC74VHC125FTS1
	IC	2701	DSPA56720AG
	IC	2702	AYW7234
	IC	2703	HY57V641620FTP-6
	IC	2704,2705	TC74LCX573FTS1
⚠	IC	2706	NJM2872BF33
⚠	IC	2710	NJM2846DL3-33
⚠	IC	2711	PQ1LAX95MSPQ
⚠	IC	2712	RP131H101D
⚠	IC	2713	NJM2846DL3-25
	IC	2714	TC7SH32FUS1
	IC	2801	DSPC56371AF180
	IC	2802	PDC168A8
	IC	2804,2806	TC74LCX08FTS1
	IC	2807	TC74VHC126FTS1
	IC	2808	TC7WH157FU
	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
	Q	2005,2008	RT1N241M
	Q	2006	RT3P22M
	Q	2007	2SA1366
	Q	2201	RT1N141M-11
	Q	2202	2SA1602A
	Q	2203	RT1P431M
	Q	2205,2207,2208	RT1P241M
	D	2001,2003,2951,2952	MC2848-11
	D	2002	RB520S-30
⚠	D	2004,2005	MC2848-11
	D	2201	1SS357
	D	2701-2704	1SR154-400
	D	2953,2954	MC2846-11

MISCELLANEOUS

Mark	No.	Description	Part No.
	L	2001 CHIP SOLID INDUCTOR	QTL1013
	L	2002,2003 CHIP SOLID INDUCTOR	ATL7002
	L	2404-2406 CHIP SOLID INDUCTOR	QTL1013
	L	2408,2409 CHIP SOLID INDUCTOR	QTL1013
	L	2411-2416 CHIP SOLID INDUCTOR	QTL1013
	L	2701 CHIP SOLID INDUCTOR	QTL1013
	L	2703-2711 CHIP SOLID INDUCTOR	QTL1013
	L	2713 CHIP SOLID INDUCTOR	QTL1013
	L	2801-2804 CHIP SOLID INDUCTOR	QTL1013
	L	2806-2811 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	2401 PIN JACK(3P)	AKB7205
	JA	2402-2405 OPT. LINK IN	AKS7001
	JA	2406,2407 OPT. LINK OUT	AKS7002
	KN	2001,2201 WRAPPING TERMINAL	VNF1084
	KN	2401 SCREW PLATE	VNE1948
	X	2001 RESONATOR (24.000 MHz)	CSS1716
	X	2201 CERAMIC RESONATOR (15.7MHz)	ASS7087
	X	2701 CRYSTAL OSCILLATOR (24.576 MHz)	ASS7072
	X	2702 CRYSTAL OSCILLATOR (22.5792 MHz)	ASS7071
	CN	2001 16P CONNECTOR	VKN1420
	CN	2002 29P CONNECTOR	VKN1844
	CN	2003 22P CONNECTOR	RKN1063
	CN	2005,2007,2902 PLUG	CKS1764
	CN	2006 7P SOCKET	XKP3074
	CN	2008,2903 PLUG	CKS1761
	CN	2401 PLUG(3P)	KM200NA3
	CN	2402 23P SOCKET	XKP3082
	CN	2403 CONNECTOR	CKS3815
	CN	2901 PLUG	CKS1758
	JH	2001 PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
	R	2001-2003,2005-2007	RS1/16S104J
	R	2010-2012,2035,2202	RS1/16S473J
	R	2015,2027,2032,2039	RS1/16S104J
	R	2018,2209	RS1/16S512J
	R	2021,2026,2028,2030	RAB4CQ101J
	R	2033,2034	RAB4CQ471J
	R	2036,2049,2207,2214	RAB4CQ101J
	R	2041,2043,2045,2046	RS1/16S104J
	R	2047,3117,3118,3217	RS1/16S474J
	R	2050,2066,2067,2069	RS1/16S104J
	R	2072,2103,2105,2107	RAB4CQ473J
	R	2073	RS1/16S472J
	R	2140,2141,2270,2271	RS1/16S0R0J
	R	2203,2717-2719,2721	RAB4CQ220J
	R	2210,2237,2466,2467	RS1/16S101J
	R	2211,2217,2229,2230	RS1/16S473J
	R	2216,2218,2223,2226	RAB4CQ101J

Mark	No.	Description	Part No.
R	2233,2235,2246		RS1/16S473J
R	2234,2425,2730,2812		RAB4CQ101J
R	2241		RAB4CQ473J
R	2255		RS1/16S104J
R	2401-2403		RS1/16S750J
R	2404-2406,2901-2904		RS1/16S220J
R	2423		RS1/16SS1802F
R	2604,3017,3018,3051		RS1/16S0R0J
R	2714,2905,2906,2909		RS1/16S103J
R	2715,2746,2802		RAB4CQ470J
R	2722,2761,2762,2765		RAB4CQ220J
R	2747,2803		RAB4CQ103J
R	2759,2760,2763,2764		RAB4CQ221J
R	2766		RAB4CQ220J
R	2789		RS1/16SS1000F
R	2790		RS1/16SS1202F
R	2791		RS1/10S0R0J
R	2795,2796		RS1/16S101J
R	2822,3455		RAB4CQ101J
R	2907,2908,2911,2912		RS1/16S682J
R	2910		RS1/16S103J
R	2913-2918,3108,3116		RS1/16S392J
R	2919,2920		RS1/16S822J
R	2921,2922		RS1/16S911J
R	3001,3002,3009,3010		RS1/16S181J
R	3003-3006,3011-3014		RS1/16S222J
R	3007,3008,3015,3016		RS1/16S202J
R	3021,3022,3119,3120		RS1/16S221J
R	3101,3109,3201,3202		RS1/16S681J
R	3102,3110		RS1/16S181J
R	3103-3106,3203-3206		RS1/16S222J
R	3107,3112,3114,3115		RS1/16S122J
R	3111,3113,3211-3214		RS1/16S272J
R	3151,3251,3351,3456		RS1/16S0R0J
R	3207,3208,3215,3216		RS1/16S122J
R	3209,3210,3301,3302		RS1/16S681J
R	3218,3317,3318,3413		RS1/16S474J
R	3219,3220,3319,3320		RS1/16S221J
R	3303-3306		RS1/16S222J
R	3307,3308,3315,3316		RS1/16S122J
R	3309,3310		RS1/16S681J
R	3311-3314		RS1/16S272J
R	3401,3402		RS1/16S223J
R	3403,3404		RS1/16S302J
R	3405,3406,3409,3410		RS1/16S332J
R	3407,3408		RS1/16S392J
R	3411,3412		RS1/16S221J
R	3414		RS1/16S474J
R	3458		RS1/16S4R7J
	Other Resistors		RS1/16SS###J

CAPACITORS

Mark	No.	Description	Part No.
C	2001,2040,3060,3068		CKSRYB105K16
C	2002,2004,2006,2011		CKSRYB104K16
C	2003,2014,2015,2039		CKSRYB471K50
C	2005,2007,2030,2032		CKSRYB102K50
C	2008,2738,2817		CKSSYB103K16
C	2009		ACH7298
C	2012		CKSRYB472K50
C	2013,2220,2221,2954		CKSRYB103K50
C	2016,2047,3001,3002		CCSRCH102J50
C	2017,2018,2020-2022		CKSRYB104K16
C	2019,2026,2211-2215		CKSSYB104K10
C	2024,2029,2031,2038		CKSRYB104K16
C	2025		CEAT331M10
C	2027,2454,2457,2762		CKSQYB225K10
C	2028		CKSRYB473K50
C	2037,2929,2952,2984		CEHAZL101M25
C	2041,2046,2209,2210		CKSRYB104K16
C	2050-2054,2056-2065		CCSSCH100D50
C	2201,2426,2827		ACH7272
C	2202,2204,2205,2208		CCSSCH471J16
C	2206,2965,3052,3071		CCSRCH471J50
C	2216		CEAT102M10
C	2217,2227,2402,2404		CKSRYB104K16
C	2222,2224-2226,2228		CKSSYB104K10
C	2230,2414,2421,2425		CKSSYB104K10
C	2406-2413,2417,2450		CKSRYB104K16
C	2415,2431,2433,2437		CKSSYB471K50
C	2416,2419,2422,2458		CEHAZL101M10
C	2418,2420,2424,2747		CCSSCH471J16
C	2423		CKSRYB474K10
C	2430,2432,2436,2438		CKSSYB104K10
C	2439,2447,2449,2462		CKSSYB471K50
C	2440,2448,2452,2461		CKSSYB104K10
C	2451,2785		ACH7273
C	2453,2456,2780,2901		CKSRYB104K16
C	2455,2732,2781,2783		CEHAZL221M10
C	2463,2701,2703,2704		CKSSYB471K50
C	2464,2702,2705,2708		CKSSYB104K10
C	2706,2707,2709,2711		CKSSYB471K50
C	2710,2712,2714,2718		CKSSYB104K10
C	2713,2715-2717,2719		CKSSYB471K50
C	2720,2723,2725,2728		CKSSYB104K10
C	2721,2722,2724,2726		CKSSYB471K50
C	2727,2729,2736,2743		CKSSYB471K50
C	2730,2734		CKSQYB474K25
C	2731		CKSQYB225K16
C	2733		ACH7203
C	2735,2779,2851,2852		CKSQYB475K10
C	2737,2744,2746,2756		CKSSYB104K10
C	2745,2769,2772,2801		CKSSYB471K50
C	2748,2750,2751,2753		CKSSYB105K6R3
C	2749,2752,2754		CCSSCH102J50
C	2755,2791,2796		CKSSYB105K6R3
C	2757,2759,2764,2766		CCSSCH471J16
C	2758,2760,2761,2763		CKSSYB104K10
C	2765,2770,2771		CKSSYB104K10
C	2773-2776,2786-2790		CKSSYB104K10
C	2777,2778,2991,2993		CKSQYB225K10
C	2782,2956,2957,3061		ACH7211
C	2784,3065,3165,3265		CEHAZL221M10
C	2792-2795		CCSSCH102J50
C	2797,2798,2800,2802		CKSSYB104K10
C	2799		VCH1234
C	2803,2805,2807,2809		CKSSYB471K50
C	2804,2806,2808,2810		CKSSYB104K10
C	2811,2813,2815,2818		CKSSYB471K50
C	2812,2814,2816,2819		CKSSYB104K10

Mark	No.	Description	Part No.
C	2820,2822,2824,2831		CKSSYB471K50
C	2821,2823,2825,2829		CKSSYB104K10
C	2826,3055,3063,3155		ACH7268
C	2830,2832,2834,2836		CKSSYB104K10
C	2833,2835,2837,2838		CKSSYB471K50
C	2839,2840,3081,3181		CKSSYB104K10
C	2841,3082,3182,3282		CKSSYB471K50
C	2902,2928,2953,2955		CKSRYB104K16
C	2903,2904		DCH1201
C	2905-2908,3109,3110		ACH7196
C	2911,2912,2915,2916		CFHXSQ103J16
C	2913,2914		CCSRCH101J50
C	2958,2961-2963,2966		CKSRYB104K16
C	2959,2964,3059,3070		CKSRYB103K50
C	2960,2981,2990,2995		CEHAZL101M10
C	2983,2992,2994,3053		CKSRYB104K16
C	2987		CEHAZL101M25
C	2996,2997,3007,3008		CFHXSQ103J16
C	3003-3006,3103,3105		CCSRCH331J50
C	3013,3014,3113,3114		CFHXSQ472J16
C	3051,3151,3251,3351		CEHAZL101M10
C	3056,3058,3062,3064		CKSRYB104K16
C	3057,3075,3101,3102		CCSRCH102J50
C	3066,3072,3153,3156		CKSRYB104K16
C	3067,3161,3167,3261		ACH7211
C	3104,3106		CCSRCH271J50
C	3107,3108,3207,3208		CFHXSQ103J16
C	3152,3171,3252,3271		CCSRCH471J50
C	3157,3175,3201,3202		CCSRCH102J50
C	3158,3162,3164,3166		CKSRYB104K16
C	3159,3170,3259,3270		CKSRYB103K50
C	3160,3168,3260,3268		CKSRYB105K16
C	3163,3255,3263,3355		ACH7268
C	3172,3253,3256,3258		CKSRYB104K16
C	3203-3206,3303-3306		CCSRCH331J50
C	3209,3210,3309,3310		ACH7196
C	3213,3214,3313,3314		CFHXSQ472J16
C	3257,3275,3301,3302		CCSRCH102J50
C	3262,3264,3266,3272		CKSRYB104K16
C	3267,3361,3367		ACH7211
C	3281,3381,3461		CKSSYB104K10
C	3307,3308		CFHXSQ103J16
C	3352,3371,3405,3406		CCSRCH471J50
C	3353,3356,3358,3362		CKSRYB104K16
C	3357,3375		CCSRCH102J50
C	3359,3370,3456,3458		CKSRYB103K50
C	3360,3368		CKSRYB105K16
C	3363		ACH7268
C	3364,3366,3372,3452		CKSRYB104K16
C	3365		CEHAZL221M10
C	3382		CKSSYB471K50
C	3401,3402		CEAT220M50
C	3403,3404		CCSRCH391J50
C	3407,3408		CKSRYB104K25
C	3409,3410		CEAT100M50
C	3453,3454		CEAT470M16
C	3455,3457,3460		CKSRYB104K16
C	3459		CCSRCH471J50

Mark	No.	Description	Part No.

B D-MOTHER ASSY (SC-LX71)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC	2001	PEG489B8
	IC	2002,2003,2203,2204	TC4094BFN
	IC	2005	BU4842F
	IC	2006	TC74LCX244FTS1
	IC	2007,2008,2406	TC74VHCT125AFTS1
	IC	2009	TC74VHCT541AFTS1
⚠	IC	2011,2412	NJM2880U1-33
	IC	2201	PEG396A
	IC	2202	AYW7256
	IC	2205,2211,2408,2409	TC74VHC125FTS1
	IC	2206	TC74VHC32FTS1
	IC	2207,2407,2709,2805	TC74VHC08FTS1
	IC	2208	TC74VHCT08AFTS1
	IC	2209	TC74VHC04FTS1
	IC	2210	TC74VHC00FTS1
	IC	2213	TC7SH04FUS1
	IC	2401	AK4114VQ
	IC	2403,2404,2803	TC74LCX157FTS1
	IC	2410,2411,2707	TC7SH08FUS1
⚠	IC	2413,2983	NJM2845DL1-05
	IC	2414	TC74VHC125FTS1
	IC	2701	DSPA56720AG
	IC	2702	AYW7234
	IC	2703	HY57V641620FTP-6
	IC	2704,2705	TC74LCX573FTS1
⚠	IC	2706	NJM2872BF33
⚠	IC	2710	NJM2846DL3-33
⚠	IC	2711	PQ1LAX95MSPQ
⚠	IC	2712	RP131H101D
⚠	IC	2713	NJM2846DL3-25
	IC	2714	TC7SH32FUS1
	IC	2801	DSPC56371AF180
	IC	2802	PDC168A8
	IC	2804,2806	TC74LCX08FTS1
	IC	2807	TC74VHC126FTS1
	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
	Q	2005,2008	RT1N241M
	Q	2006	RT3P22M
	Q	2007	2SA1366
	Q	2201	RT1N141M-11
	Q	2202	2SA1602A
	Q	2203	RT1P431M
	Q	2205,2207,2208	RT1P241M
	D	2001,2003,2951,2952	MC2848-11
	D	2002	RB520S-30
⚠	D	2004,2005	MC2848-11
	D	2201	1SS357
	D	2701-2704	1SR154-400
	D	2953,2954	MC2846-11

MISCELLANEOUS

	L	2001 CHIP SOLID INDUCTOR	QTL1013
	L	2002,2003 CHIP SOLID INDUCTOR	ATL7002

Mark	No.	Description	Part No.
L	2404-2406	CHIP SOLID INDUCTOR	QTL1013
L	2408,2409	CHIP SOLID INDUCTOR	QTL1013
L	2411-2416	CHIP SOLID INDUCTOR	QTL1013
L	2701	CHIP SOLID INDUCTOR	QTL1013
L	2703-2711	CHIP SOLID INDUCTOR	QTL1013
L	2713	CHIP SOLID INDUCTOR	QTL1013
L	2801-2804	CHIP SOLID INDUCTOR	QTL1013
L	2806-2810	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	2402-2405	OPT. LINK IN	AKS7001
JA	2406,2407	OPT. LINK OUT	AKS7002
JA	2408	PIN JACK(2P)	AKB7173
KN	2001,2201	WRAPPING TERMINAL	VNF1084
KN	2401	SCREW PLATE	VNE1948
X	2001	RESONATOR (24.000 MHz)	CSS1716
X	2201	CERAMIC RESONATOR (15.7MHz)	ASS7087
X	2701	CRYSTAL OSCILLATOR (24.576 MHz)	ASS7072
X	2702	CRYSTAL OSCILLATOR (22.5792 MHz)	ASS7071
CN	2001	16P CONNECTOR	VKN1420
CN	2002	29P CONNECTOR	VKN1844
CN	2003	22P CONNECTOR	RKN1063
CN	2005,2007,2902	PLUG	CKS1764
CN	2006	7P SOCKET	XKP3074
CN	2008,2903	PLUG	CKS1761
CN	2401	PLUG(3P)	KM200NA3
CN	2402	23P SOCKET	XKP3082
CN	2403	CONNECTOR	CKS3815
CN	2901	PLUG	CKS1758
JH	2001	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	2001-2003,2005-2007		RS1/16S104J
R	2010,2013,2035,2201		RS1/16S473J
R	2015,2027,2032,2039		RS1/16S104J
R	2018,2209		RS1/16S512J
R	2021,2026,2028,2030		RAB4CQ101J
R	2033,2034		RAB4CQ471J
R	2036,2049,2207,2214		RAB4CQ101J
R	2041,2043,2045,2046		RS1/16S104J
R	2047,3117,3118,3217		RS1/16S474J
R	2050,2066,2067,2069		RS1/16S104J
R	2072,2103,2105,2107		RAB4CQ473J
R	2073		RS1/16S472J
R	2140,2141,2270,2271		RS1/16S0R0J
R	2203,2717-2719,2721		RAB4CQ220J
R	2210,2237,2466,2467		RS1/16S101J
R	2211,2217,2229,2230		RS1/16S473J
R	2216,2218,2223,2226		RAB4CQ101J
R	2233,2235		RS1/16S473J
R	2234,2425,2730,2812		RAB4CQ101J
R	2241		RAB4CQ473J
R	2255		RS1/16S104J
R	2401,2402		RS1/16S750J
R	2404,2405,2901-2904		RS1/16S220J
R	2423		RS1/16SS1802F
R	2604,3017,3018,3065		RS1/16S0R0J
R	2714,2905,2906,2909		RS1/16S103J
R	2715,2746,2802		RAB4CQ470J
R	2722,2761,2762,2765		RAB4CQ220J
R	2747,2803		RAB4CQ103J
R	2759,2760,2763,2764		RAB4CQ221J
R	2766		RAB4CQ220J
R	2789		RS1/16SS1000F
R	2790		RS1/16SS1202F
R	2791		RS1/10S0R0J
R	2795,2796		RS1/16S101J
R	2822,3455		RAB4CQ101J
R	2907,2908,2911,2912		RS1/16S682J
R	2910		RS1/16S103J
R	2913-2918,3108,3116		RS1/16S392J
R	2919,2920		RS1/16S822J
R	2921,2922		RS1/16S911J
R	3001,3002,3009,3010		RS1/16S181J
R	3003-3006,3011-3014		RS1/16S222J
R	3007,3008,3015,3016		RS1/16S202J
R	3021,3022,3119,3120		RS1/16S221J
R	3066,3080,3165,3166		RS1/16S0R0J
R	3101,3109,3201,3202		RS1/16S681J
R	3102,3110		RS1/16S181J
R	3103-3106,3203-3206		RS1/16S222J
R	3107,3112,3114,3115		RS1/16S122J
R	3111,3113,3211-3214		RS1/16S272J
R	3180,3265,3266,3280		RS1/16S0R0J
R	3207,3208,3215,3216		RS1/16S122J
R	3209,3210,3301,3302		RS1/16S681J
R	3218,3317,3318,3413		RS1/16S474J
R	3219,3220,3319,3320		RS1/16S221J
R	3303-3306		RS1/16S222J
R	3307,3308,3315,3316		RS1/16S122J
R	3309,3310		RS1/16S681J
R	3311-3314		RS1/16S272J
R	3365,3366,3380,3456		RS1/16S0R0J
R	3401,3402		RS1/16S223J
R	3403,3404		RS1/16S302J
R	3405,3406,3409,3410		RS1/16S332J
R	3407,3408		RS1/16S392J
R	3411,3412		RS1/16S221J
R	3414		RS1/16S474J
R	3458		RS1/16S4R7J
	Other Resistors		RS1/16SS###J

CAPACITORS

Mark	No.	Description	Part No.
C	2001,2040,3060,3068		CKSRYB105K16
C	2002,2004,2006,2011		CKSRYB104K16
C	2003,2014,2015,2039		CKSRYB471K50
C	2005,2007,2030,2032		CKSRYB102K50
C	2008,2738,2817		CKSSYB103K16
C	2009		ACH7298
C	2012,3011,3012,3111		CKSRYB472K50
C	2013,2220,2221,2954		CKSRYB103K50
C	2016,2047,3001,3002		CCSRCH102J50
C	2017,2018,2020-2022		CKSRYB104K16
C	2019,2026,2211-2215		CKSSYB104K10
C	2024,2029,2031,2038		CKSRYB104K16
C	2025		CEAT331M10

Mark	No.	Description	Part No.
C	2027,2454,2457,2762		CKSQYB225K10
C	2028		CKSRYB473K50
C	2037,2929,2952,2984		CEHAZL101M25
C	2041,2046,2209,2210		CKSRYB104K16
C	2050-2054,2056-2065		CCSSCH100D50
C	2201,2426,2827		ACH7272
C	2202,2204,2205,2208		CCSSCH471J16
C	2206,2965,3071,3171		CCSRCH471J50
C	2216		CEAT102M10
C	2217,2227,2402,2404		CKSRYB104K16
C	2222,2224-2226,2228		CKSSYB104K10
C	2230,2414,2421,2425		CKSSYB104K10
C	2407-2413,2417,2450		CKSRYB104K16
C	2415,2431,2433,2437		CKSSYB471K50
C	2416,2419,2422,2458		CEHAZL101M10
C	2418,2420,2424,2747		CCSSCH471J16
C	2423		CKSRYB474K10
C	2430,2432,2434,2436		CKSSYB104K10
C	2438,2440,2448,2452		CKSSYB104K10
C	2439,2447,2449,2462		CKSSYB471K50
C	2451,2785		ACH7273
C	2453,2456,2780,2901		CKSRYB104K16
C	2455,2732,2781,2783		CEHAZL221M10
C	2461,2464,2702,2705		CKSSYB104K10
C	2463,2701,2703,2704		CKSSYB471K50
C	2706,2707,2709,2711		CKSSYB471K50
C	2708,2710,2712,2714		CKSSYB104K10
C	2713,2715-2717,2719		CKSSYB471K50
C	2718,2720,2723,2725		CKSSYB104K10
C	2721,2722,2724,2726		CKSSYB471K50
C	2727,2729,2736,2743		CKSSYB471K50
C	2728,2737,2744,2746		CKSSYB104K10
C	2730,2734		CKSQYB474K25
C	2731		CKSQYB225K16
C	2733		ACH7203
C	2735,2779,2851,2852		CKSQYB475K10
C	2745,2769,2772,2801		CKSSYB471K50
C	2748,2750,2751,2753		CKSSYB105K6R3
C	2749,2752,2754		CCSSCH102J50
C	2755,2791,2796		CKSSYB105K6R3
C	2756,2758,2760,2761		CKSSYB104K10
C	2757,2759,2764,2766		CCSSCH471J16
C	2763,2765,2770,2771		CKSSYB104K10
C	2773-2776,2786-2790		CKSSYB104K10
C	2777,2778,2993		CKSQYB225K10
C	2782,2956,2957,3061		ACH7211
C	2784,3065,3165,3265		CEHAZL221M10
C	2792-2795		CCSSCH102J50
C	2797,2798,2800,2802		CKSSYB104K10
C	2799		VCH1234
C	2803,2805,2807,2809		CKSSYB471K50
C	2804,2806,2808,2810		CKSSYB104K10
C	2811,2813,2815,2818		CKSSYB471K50
C	2812,2814,2816,2819		CKSSYB104K10
C	2820,2822,2824,2831		CKSSYB471K50
C	2821,2823,2825,2829		CKSSYB104K10
C	2826,3063,3163,3263		ACH7268
C	2830,2832,2834,2836		CKSSYB104K10
C	2833,2835,2837,2838		CKSSYB471K50
C	2839,3461		CKSSYB104K10
C	2902,2928,2953,2955		CKSRYB104K16
C	2903,2904		DCH1201
C	2905-2908,3109,3110		ACH7196
C	2911,2912,2915,2916		CKSQYB103K50
C	2913,2914		CCSRCH101J50
C	2958,2961-2963,2966		CKSRYB104K16
C	2959,2964,3059,3070		CKSRYB103K50
C	2960,2981,2995		CEHAZL101M10
C	2983,2994,3058,3062		CKSRYB104K16
C	2985,2986,3407,3408		CKSRYB104K25
C	2987		CEHAZL101M25
C	3003-3006,3103,3105		CCSRCH331J50
C	3007,3008,3107,3108		CKSQYB103K50
C	3064,3066,3072,3158		CKSRYB104K16
C	3067,3161,3167,3261		ACH7211
C	3101,3102,3201,3202		CCSRCH102J50
C	3104,3106		CCSRCH271J50
C	3112,3211,3212,3311		CKSRYB472K50
C	3159,3170,3259,3270		CKSRYB103K50
C	3160,3168,3260,3268		CKSRYB105K16
C	3162,3164,3166,3172		CKSRYB104K16
C	3203-3206,3303-3306		CCSRCH331J50
C	3207,3208,3307,3308		CKSQYB103K50
C	3209,3210,3309,3310		ACH7196
C	3258,3262,3264,3266		CKSRYB104K16
C	3267,3361,3367		ACH7211
C	3271,3371,3405,3406		CCSRCH471J50
C	3272,3358,3362,3364		CKSRYB104K16
C	3301,3302		CCSRCH102J50
C	3312		CKSRYB472K50
C	3359,3370,3456,3458		CKSRYB103K50
C	3360,3368		CKSRYB105K16
C	3363		ACH7268
C	3365		CEHAZL221M10
C	3366,3372,3452,3455		CKSRYB104K16
C	3401,3402		CEAT220M50
C	3403,3404		CCSRCH391J50
C	3409,3410		CEAT100M50
C	3453,3454		CEAT470M16
C	3457,3460		CKSRYB104K16
C	3459		CCSRCH471J50

C FRONT IN ASSY

SEMICONDUCTORS

IC	6201		NJM4565MD
Q	6201		HN1C01FU
D	6201,6202,6204		1SS302
D	6203,6205,6206		UDZS5R1(B)
D	6303,6304		UMZU6.2N

MISCELLANEOUS

L	6201	CHIP SOLID INDUCTOR	QTL1013
JA	6201	JACK	RKN1004
JA	6202	FRONT AV INPUT	AKX7019
JA	6301	USB CONNECTOR	XKP3086
JA	6351	PHONE JACK	AKN7029
KN	6201,6202	WRAPPING TERMINAL	VNF1084
KN	6351	WRAPPING TERMINAL	VNF1084
CN	6201	PLUG(3P)	KM200NA3

Mark	No.	Description	Part No.
	CN 6202	CONNECTOR	CKS3380
	CN 6301	PLUG(5P)	KM200NA5
	CN 6351	4P JUMPER CONNECTOR	52147-0410
	RESISTORS		
	All Resistors		RS1/16S###J
	MISCELLANEOUS		
	JH 6302	PCB BINDER	VEF1040
	CAPACITORS		
	C 6202,6208,6218,6224		CKSRYB104K16
	C 6204,6220,6226,6228		CKSRYB103K50
	C 6205,6206		CKSRYB221K50
	C 6209		CKSRYB105K6R3
	C 6210,6211,6234,6235		CEAT100M50
	C 6212		CKSRYB471K50
	C 6213		CKSQYB106K6R3
	C 6214-6216,6249-6251		CCSRCH101J50
	C 6219		CEJQ100M16
	C 6222,6227		CCSRCH220J50
	C 6223,6225		CEAT330M25
	C 6229		CKSRYB102K50
	C 6230-6232,6239,6246		CKSRYB103K50
	C 6233		CKSRYB472K50
	C 6236,6245,6247		CKSRYB104K16
	C 6237		CEAT100M50
	C 6240-6242,6356		CCSRCH102J50
	C 6243,6244		CEAL220M16
	C 6248		CKSRYB103K50
	C 6303		CKSRYB104K25
	C 6353,6354		CKSRYB822K50

D 232C & CONTROL ASSY

Mark	No.	Description	Part No.
	SEMICONDUCTORS		
	IC 5801		HIN202EIBNZ
	Q 5801		2SC4154
	Q 5802		DTA114TUA
	Q 5806		2SA1366
	Q 5807		RT1N241M
	D 5804,5805		1SS352
	D 5806,5807		1SS357
	D 5809,5810		SIM-20STS1
	D 5813,5814		MC2848-11
	D 5815,5816		HZU5R1(B2)
	MISCELLANEOUS		
	L 5803-5807	CHIP SOLID INDUCTOR	QTL1013
	L 5809-5811	CHIP SOLID INDUCTOR	QTL1013
	JA 5801	9P D-SUB SOCKET	AKP1213
	JA 5802,5804-5806	JACK	VKB1243
	JA 5803	MINI JACK(4P) /W SW	XKN3015
	KN 5801,5802	SCREW PLATE	VNE1948
	CN 5801	23P SOCKET	XKP3082
	RESISTORS		
	All Resistors		RS1/16S###J
	MISCELLANEOUS		
	U 5801	REMOTE RECEIVER UNIT	GP1UE284QKC1
	CAPACITORS		
	C 5802,5811,5828		CKSRYB103K50
	C 5803		CCSRCH331J50
	C 5804,5805		CKSRYB102K50
	C 5807-5810		CKSRYB104K16
	C 5812,5829		CEAT101M16
	C 5830,5831		CKSRYB471K50
	C 5832-5834		CCSRCH100D50
	C 5837		CCSRCH101J50

E HDMI NETWORK ASSY (SC-LX81)

Mark	No.	Description	Part No.
	SEMICONDUCTORS		
⚠	IC 11		NJM2846DL3-33
⚠	IC 21		NJM2846DL3-18
⚠	IC 31		NJM2886DL3-33
	IC 101		SII9135CTU
	IC 201		TC74VHC541FTS1
	IC 202		ICS571MLF
	IC 203		TC7WH74FU
	IC 204,205,208		TC7WH157FU
	IC 251		TC74VHC157FTS1
	IC 252		TC7SH08FUS1
	IC 301,351		SII9134CTU
⚠	IC 302,352		NJM2872BF05
	IC 401		ADV7800BSTZ-80
	IC 402		TC7WHU04FU
	IC 501		PEG118A
	IC 502		AYW7254
	IC 504		BU4094BCFV
	IC 505,911,1871		TC74VHC08FTS1
	IC 601		ADV7172KSTZ
	IC 801		AAT4618IGV-0.5-1
	IC 861		RTL8201CP-LF
	IC 881		AYW7255
	IC 891		HY57V281620FTP-6
	IC 921,1861		TC74VHCT08AFTS1
⚠	IC 1001		TPS54350PWP
⚠	IC 1021		LTC3850EGN
⚠	IC 1051		LT3505EMS8E
⚠	IC 1071		NJM2885DL1-05
	IC 1081		TC7WH125FU
	IC 1082		TC7WT125FU
	IC 1151		SII9185ACTU
	IC 1204		S-24CS02AFT
	IC 1208		TC7MB3257FK
	IC 1301		FLI2310-LF-CF
	IC 1351		M12L64322A-6TG
	IC 1381,1383,1384,1402		TC74LCX541FTS1
	IC 1382,1401,1403		TC7SZ125FU
	IC 1404		TC74LCX541FTS1
	IC 1701		UPD61111GM-100UEVA
⚠	IC 1702		NJM2885DL1-15
	IC 1703		KA5SDKAS01TSN
	IC 1901		K4H561638H-UCB3
⚠	IC 1902		S-1132B25-U5
	IC 1903		NJM12904V
	IC 1951		AYW7232
	Q 201		RT1P241M
	Q 301,351,1104,1203		DTC114YUA

Mark	No.	Description	Part No.
	Q	302,352	UMB1N
	Q	631,641,651,661	2SA1602A
	Q	671,681,1801,1811	2SA1602A
⚠	Q	1001	RTQ045N03
⚠	Q	1021,1022	SP8K1
	Q	1204	DTC114YUA
	Q	1281	HN1K02FU
	Q	1821,1831	2SA1602A
	D	301,351	UDZS5R1(B)
	D	551,1701	RB501V-40
⚠	D	1001	RLZ6.8B
	D	1021,1022,1052	RB160VA-40
⚠	D	1023,1024	RLZ5.6B
	D	1051	RB160M-30
	D	1101-1104	DAN202U
	D	1861	1SS352

MISCELLANEOUS

	L	101-104,301-305 CHIP BEADS	ATL7010
	L	105,106 CHIP SOLID INDUCTOR	QTL1013
	L	201 INDUCTOR	CTF1379
	L	202-204 CHIP SOLID INDUCTOR	QTL1013
	L	207,208 CHIP SOLID INDUCTOR	QTL1013
	L	251,252 CHIP SOLID INDUCTOR	QTL1013
	L	306-309,356-359 COIL	ATH7022
	L	351-355,401,402 CHIP BEADS	ATL7010
	L	403,405 CHIP SOLID INDUCTOR	QTL1013
	L	404,406,1001,1021 CHIP BEADS	ATL7010
	L	501,601 CHIP SOLID INDUCTOR	ATL7002
	L	602 CHIP SOLID INDUCTOR	ATL7002
	L	631,641,651,661 INDUCTOR	ATL7015
	L	671,681,1801,1811 INDUCTOR	ATL7015
	L	701,702,805,861 INDUCTOR	CTF1357
	L	704-707 CHIP FERRITE BEADS	ATF1211
	L	801 CHIP FERRITE BEADS	VTL1169
	L	802 COIL	VTH1043
	L	862,871,881,891 INDUCTOR	CTF1357
	L	863,864 COIL	VTH1056
	L	911,936 INDUCTOR	CTF1357
	L	1002 POWER INDUCTOR	ATH7059
	L	1022 INDUCTOR	CTH1261
	L	1023 INDUCTOR	ATH7060
	L	1051,1151-1153 CHIP BEADS	ATL7010
	L	1052 INDUCTOR	ATH7061
	L	1097-1099 INDUCTOR	CTF1386
	L	1301-1305 CHIP SOLID INDUCTOR	ATL7002
	L	1351,1901 CHIP SOLID INDUCTOR	ATL7002
	L	1381-1384 CHIP SOLID INDUCTOR	QTL1013
	L	1401-1404 CHIP SOLID INDUCTOR	QTL1013
	L	1701-1706,1902 FERRITE CORE	VTF1091
	L	1821,1831 INDUCTOR	ATL7015
	L	1861,1871 CHIP SOLID INDUCTOR	QTL1013
	L	1951 FERRITE CORE	VTF1091
	JA	301,351 HDMI CONNECTOR	AKP7225
	JA	701 RJ45 CONNECTOR TRNS	VKN2078
	JA	1101-1104 HDMI CONNECTOR	AKP7225
	X	101 CRYSTAL RESONATOR (28.322 MHz)	ASS7085
	X	401 CRYSTAL RESONATOR (28.63636 MHz)	ASS7069
	X	501 CERAMIC RESONATOR (15.7 MHz)	XSS3004
	X	701 CRYSTAL RESONATOR (24.576 MHz)	XSS3003

Mark	No.	Description	Part No.
	X	702 CRYSTAL RESONATOR (25.0 MHz)	ASS7084
	X	791 CRYSTAL OSCILLATOR (32.768 kHz)	ASS1172
	X	1301 CRYSTAL RESONATOR (13.5 MHz)	ASS7070
	X	1701 CRYSTAL RESONATOR (27.0000 MHz)	BSS1123
	CN	201 23P SOCKET	XKP3083
	CN	502 13P SOCKET	XKP3077
	CN	601 CONNECTOR	CKS4898
	CN	801 CONNECTOR	AKM1276
	CN	902 5P CONNECTOR	VKN1374
	CN	1001 CONNECTOR	CKS3815
	CN	1002 15P SOCKET	XKP3078
	CN	1003 CONNECTOR	CKS1755
	CN	1701 22P CONNECTOR	VKN1426
	CN	1702 CONNECTOR	VKN2040
	JH	1 PCB BINDER	VEF1040

RESISTORS

	R	101,103-105,108	RAB4CQ100J
	R	115,204	RAB4CQ680J
	R	119,320,322-330	RAB4CQ473J
	R	130-132,134-136	RAB4CQ100J
	R	141-144	ACN1275
	R	305,355,609,612	RS1/16SS6800F
	R	428,429,789	RAB4CQ330J
	R	432,433,1385-1388	RAB4CQ470J
	R	434,437,442,443	RAB4CQ473J
	R	446,447,450,708	RAB4CQ473J
	R	464,465,467,468	RAB4CQ472J
	R	480-483,741,761	RAB4CQ220J
	R	596	RAB4CQ101J
	R	610,611	RS1/16SS5601F
	R	633,643,653,663	RS1/16SS2200F
	R	634,644,654,664	RS1/16SS4700F
	R	673,683,1702	RS1/16SS2200F
	R	674,684	RS1/16SS4700F
	R	723	RS1/16S5101F
	R	724	RS1/16S3900F
	R	746,747,749	RAB4CQ100J
	R	769,771,1322-1324	RAB4CQ220J
	R	806,977,1031	RS1/16S0R0J
	R	824	RS1/16SS1003F
	R	851-854,1906,1907	RAB4CQ330J
	R	867	RS1/16S2001F
	R	868-871	RS1/16S49R9F
	R	919	RS1/10S102J
	R	1009,1056	RS1/16SS1002F
	R	1011	RS1/16SS2001F
	R	1016,1029,1030,1057	RS1/10S0R0J
	R	1021,1022,1025,1026	ACN7160
	R	1023	RS1/16SS4702F
	R	1024,1027	RS1/16SS1502F
	R	1028	RS1/16SS1202F
	R	1055	RS1/16SS6802F
	R	1071-1074,1905	RS1/16S0R0J
	R	1158,1159	RS1/16SS1501F
	R	1314-1317,1352	RAB4CQ100J
	R	1327,1354-1361,1717	RAB4CQ220J
	R	1389,1729,1730,1740	RAB4CQ560J
	R	1403,1404,1409,1410	RAB4CQ0R0J
	R	1405,1406,1411,1412	RAB4CQ470J

Mark	No.	Description	Part No.
	R	1701,1901,1902	RS1/10S0R0J
	R	1703	RS1/16SS1500F
	R	1706,1707	RS1/16SS9100F
	R	1718	RAB4CQ220J
	R	1726	RAB4CQ0R0J
	R	1741,1743,1748,1754	RAB4CQ560J
	R	1755	RAB4CQ560J
	R	1792-1794	RAB4CQ473J
	R	1802,1803,1812,1813	RS1/16SS8200F
	R	1804,1814,1824,1834	RS1/16SS3900F
	R	1822,1823,1832,1833	RS1/16SS8200F
	R	1903,1904	RS1/16SS1001F
	R	1914,1915	RAB4CQ330J
	Other Resistors		RS1/16SS###J

CAPACITORS

	C	11,31,322,372	CKSRYB104K16
	C	12,32,1072	CKSQYB225K10
	C	21,106-108,110	CKSSYB104K10
	C	22,1702	CKSQYB475K6R3
	C	23,1703	CEVW221M4
	C	33	CEVW101M6R3
	C	101,102,301,302	DCH1165
	C	103,104,303-305	CKSQYB106K6R3
	C	105,113,121,122	CKSSYB105K6R3
	C	109,111,131,203	CKSSYB103K16
	C	114-120,123-126	CKSSYB104K10
	C	127,463,740,1339	CCSSCH120J50
	C	128,462,741	CCSSCH100D50
	C	129,130,133,306	CKSSYB105K6R3
	C	132,134-139,201	CKSSYB104K10
	C	140-153,155,156	CKSSYB471K50
	C	157,401,402,503,1705,1906	VCH1234
	C	159,160,1400	ACH7306
	C	202	CEVW4R7M35
	C	204,310,360,412	CKSSYB103K16
	C	206-208,211,251	CKSSYB104K10
	C	210,333-336	CKSSYB471K50
	C	216-218,252,421	CKSSYB102K50
	C	219,220,319,369	VCG1063
	C	253,307,309,312	CKSSYB104K10
	C	308,311,313-315	CKSSYB105K6R3
	C	316,317,324,357	CKSSYB104K10
	C	318,356,358,361	CKSSYB105K6R3
	C	320,321,370,371	CKSRYB105K10
	C	325-332,375-382	VCG1066
	C	351,352	DCH1165
	C	353-355,417,430	CKSQYB106K6R3
	C	359,362,366,367	CKSSYB104K10
	C	363-365,368,404	CKSSYB105K6R3
	C	374,403,405-411	CKSSYB104K10
	C	383-386,481-485	CKSSYB471K50
	C	413	CKSSYB823K10
	C	414,435,436,501	CKSSYB103K16
	C	415	CKSRYB824K10
	C	416	CKSSYB393K10
	C	418,420,422-429	CKSSYB104K10
	C	419,434,601,611	CEVW101M16
	C	431,437,438	CKSSYB104K10
	C	432,1157	CKSQYB106K6R3
	C	433,505,610,791	CKSSYB105K6R3
	C	439,440,1303,1704	DCH1201
	C	441-443,445-449	CKSSYB104K10
	C	461,502,504,506	CKSSYB104K10
	C	511,551,552	CKSSYB104K10
	C	512,735,1033,1034	CKSSYB102K50
	C	602-609,612,614	CKSSYB104K10
	C	613,934,935,937	CKSSYB103K16
	C	615,617,631,641	CKSSYB104K10
	C	619-622,718,721	CKSSYB471K50
	C	632,642,652,662	CCSSCH101J50
	C	633,643,653,663	CCSSCH560J50
	C	651,661,671,681	CKSSYB104K10
	C	672,682,951	CCSSCH101J50
	C	673,683	CCSSCH560J50
	C	701,702,704-709	CKSSYB104K10
	C	710,742,743	CEVW100M16
	C	711-717,719,722	CKSSYB104K10
	C	720,867,870,883	CEVW220M16
	C	723,936	CEVW470M6R3
	C	724-734,736-739	CKSSYB104K10
	C	744-750,792,860	CKSSYB471K50
	C	801,803-805,1014	CKSRYB104K16
	C	802,807,1302,1305	CEVW101M16
	C	861-865,868,871	CKSSYB104K10
	C	866,869,881,895	CKSSYB471K50
	C	872,874,882	CKSSYB104K10
	C	873	CEVW330M16
	C	875,1015,1046,1047	CCSRCH102J50
	C	891-894,900,911	CKSSYB104K10
	C	897-899,912,921	CKSSYB471K50
	C	922,950,1081,1082	CKSSYB104K10
	C	932	VCH1268
	C	938,1166,1313	CKSSYB103K16
	C	939	CCSSCH180J50
	C	940	CCSSCH150J50
	C	946	CSZS330M6R3
	C	1001	CKSQYB104K25
	C	1002	CEVW101M25
	C	1003,1004,1021,1022	CCG1195
	C	1005,1011	CKSRYB682K25
	C	1006,1039	CCSRCH681J50
	C	1007,1029-1031,1041	CKSRYB104K25
	C	1008	CKSQYB105K16
	C	1009,1052,1151,1156	BCG1059
	C	1023,1027	CCG1233
	C	1024,1026	CKSQYB475K10
	C	1025,1028	CCSRCH101J50
	C	1032	CKSRYB105K10
	C	1035,1040	CKSRYB223K16
	C	1036	CKSRYB222K50
	C	1037	CCSRCH470J50
	C	1038	CCSRCH121J50
	C	1042,1053	CKSRYB104K25
	C	1051	CKSQYB105K25
	C	1054	CCSSCH220J50
	C	1056	CCSRCH151J50
	C	1057,1071,1099,1701	CKSRYB104K16
	C	1101-1104,1352,1363	VCG1063

Mark	No.	Description	Part No.
	C	1152-1155,1158-1165	CKSSYB104K10
	C	1167,1207,1208,1306	CKSSYB104K10
	C	1168-1175,1323,1333	CKSSYB471K50
	C	1301,1705,1906	VCH1234
	C	1308-1312,1319-1322	CKSSYB104K10
	C	1314-1318,1353-1362	CKSSYB105K6R3
	C	1324-1332,1335-1338	CKSSYB104K10
	C	1334,1343-1348,1350	CKSSYB471K50
	C	1340	CCSSCH120J50
	C	1341,1381-1384	CKSSYB104K10
	C	1342,1708	CEVW101M16
	C	1349,1917	CCSSCH471J16
	C	1351	ACH7174
	C	1364-1368,1385-1388	CKSSYB471K50
	C	1369	CKSRYB103K25
	C	1399	VCG1063
	C	1401-1404,1711-1717	CKSSYB104K10
	C	1405-1408,1748-1754	CKSSYB471K50
	C	1706,1709,1904,1905	DCH1201
	C	1710	CKSRYB104K16
	C	1719-1721,1723-1727	CKSSYB104K10
	C	1729-1736,1738,1739	CKSSYB104K10
	C	1740,1741	CCSSCK1R0C50
	C	1742	CKSSYB102K50
	C	1743,1745,1746,1801	CKSSYB104K10
	C	1747,1907-1915	CKSSYB105K6R3
	C	1802,1803,1812,1813	CCSSCH470J50
	C	1811,1821,1831,1861	CKSSYB104K10
	C	1822,1823,1832,1833	CCSSCH470J50
	C	1871,1916,1951	CKSSYB104K10
	C	1901-1903	CKSQYB225K10
	C	1918-1922	CKSSYB471K50

E HDMI NETWORK ASSY (SC-LX71)

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC	11	NJM2846DL3-33
⚠	IC	21	NJM2846DL3-18
⚠	IC	31	NJM2886DL3-33
	IC	101	SII9135CTU
	IC	201	TC74VHC541FTS1
	IC	202	ICS571MLF
	IC	203	TC7WH74FU
	IC	204,205,208	TC7WH157FU
	IC	251	TC74VHC157FTS1
	IC	252	TC7SH08FUS1
	IC	351	SII9134CTU
⚠	IC	352	NJM2872BF05
	IC	401	ADV7800BSTZ-80
	IC	402	TC7WHU04FU
	IC	501	PEG118A
	IC	502	AYW7254
	IC	504	BU4094BCFV
	IC	505,911,1871	TC74VHC08FTS1
	IC	601	ADV7172KSTZ
	IC	801	AAT4618IGV-0.5-1
	IC	861	RTL8201CP-LF
	IC	881	AYW7255
	IC	891	HY57V281620FTP-6
	IC	921,1861	TC74VHCT08AFTS1
⚠	IC	1001	TPS54350PWP
⚠	IC	1021	LTC3850EGN
⚠	IC	1051	LT3505EMS8E
⚠	IC	1071	NJM2885DL1-05
	IC	1081	TC7WH125FU
	IC	1082	TC7WT125FU
	IC	1151	SII9185ACTU
	IC	1204	S-24CS02AFT
	IC	1208	TC7MB3257FK
	IC	1301	FLI2310-LF-CF
	IC	1351	M12L64322A-6TG
	IC	1381,1383,1384,1402	TC74LCX541FTS1
	IC	1382,1401,1403	TC7SZ125FU
	IC	1404	TC74LCX541FTS1
	IC	1701	UPD61111GM-100UEVA
⚠	IC	1702	NJM2885DL1-15
	IC	1703	KA5SDKAS01TSN
	IC	1901	K4H561638H-UCB3
⚠	IC	1902	S-1132B25-U5
	IC	1903	NJM12904V
	IC	1951	AYW7232
	Q	201	RT1P241M
	Q	351,1104,1203,1204	DTC114YUA
	Q	352	UMB1N
	Q	631,641,651,661	2SA1602A
	Q	671,681,1821	2SA1602A
⚠	Q	1001	RTQ045N03
⚠	Q	1021,1022	SP8K1
	Q	1281	HN1K02FU
	D	351	UDZS5R1(B)
	D	551,1701	RB501V-40
⚠	D	1001	RLZ6.8B
	D	1021,1022,1052	RB160VA-40
⚠	D	1023,1024	RLZ5.6B
	D	1051	RB160M-30
	D	1101-1104	DAN202U
	D	1861	1SS352

MISCELLANEOUS

		Part No.
L	101-104,351-355 CHIP BEADS	ATL7010
L	105,106 CHIP SOLID INDUCTOR	QTL1013
L	201 INDUCTOR	CTF1379
L	202-204 CHIP SOLID INDUCTOR	QTL1013
L	207,208 CHIP SOLID INDUCTOR	QTL1013
L	251,252 CHIP SOLID INDUCTOR	QTL1013
L	356-359 COIL	ATH7022
L	401,402,404,406 CHIP BEADS	ATL7010
L	403,405 CHIP SOLID INDUCTOR	QTL1013
L	501,601 CHIP SOLID INDUCTOR	ATL7002
L	602 CHIP SOLID INDUCTOR	ATL7002
L	631,641,651,661 INDUCTOR	ATL7015
L	671,681,1821 INDUCTOR	ATL7015
L	701,702,805,861 INDUCTOR	CTF1357
L	704-707 CHIP FERRITE BEADS	ATF1211
L	801 CHIP FERRITE BEADS	VTL1169
L	802 COIL	VTH1043
L	862,871,881,891 INDUCTOR	CTF1357
L	863,864 COIL	VTH1056
L	911,936 INDUCTOR	CTF1357

Mark	No.	Description	Part No.
L	1001,1021,1051	CHIP BEADS	ATL7010
L	1002	POWER INDUCTOR	ATH7059
L	1022	INDUCTOR	CTH1261
L	1023	INDUCTOR	ATH7060
L	1052	INDUCTOR	ATH7061
L	1097-1099	INDUCTOR	CTF1386
L	1151-1153	CHIP BEADS	ATL7010
L	1301-1305	CHIP SOLID INDUCTOR	ATL7002
L	1351,1901	CHIP SOLID INDUCTOR	ATL7002
L	1381-1384	CHIP SOLID INDUCTOR	QTL1013
L	1401-1404	CHIP SOLID INDUCTOR	QTL1013
L	1701-1706,1902	FERRITE CORE	VTF1091
L	1861,1871	CHIP SOLID INDUCTOR	QTL1013
L	1951	FERRITE CORE	VTF1091
JA	351,1101-1104	HDMI CONNECTOR	AKP7225
JA	701	RJ45 CONNECTOR TRNS	VKN2078
X	101	CRYSTAL RESONATOR (28.322 MHz)	ASS7085
X	401	CRYSTAL RESONATOR (28.63636 MHz)	ASS7069
X	501	CERAMIC RESONATOR (15.7 MHz)	XSS3004
X	701	CRYSTAL RESONATOR (24.576 MHz)	XSS3003
X	702	CRYSTAL RESONATOR (25.0 MHz)	ASS7084
X	791	CRYSTAL OSCILLATOR (32.768 kHz)	ASS1172
X	1301	CRYSTAL RESONATOR (13.5 MHz)	ASS7070
X	1701	CRYSTAL RESONATOR (27.0000 MHz)	BSS1123
CN	201	23P SOCKET	XKP3083
CN	502	13P SOCKET	XKP3077
CN	601	CONNECTOR	CKS4898
CN	801	CONNECTOR	AKM1276
CN	902	5P CONNECTOR	VKN1374
CN	1001	CONNECTOR	CKS3815
CN	1002	15P SOCKET	XKP3078
CN	1003	CONNECTOR	CKS1755
CN	1701	22P CONNECTOR	VKN1426
CN	1702	CONNECTOR	VKN2040
JH	1	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
R	101,103-105,108		RAB4CQ100J
R	115,204		RAB4CQ680J
R	119,320,322-330		RAB4CQ473J
R	130-132,134-136		RAB4CQ100J
R	141-144		ACN1275
R	355,609,612		RS1/16SS6800F
R	428,429,789		RAB4CQ330J
R	432,433,1385-1388		RAB4CQ470J
R	434,437,442,443		RAB4CQ473J
R	446,447,450,708		RAB4CQ473J
R	464,465,467,468		RAB4CQ472J
R	480-483,741,761		RAB4CQ220J
R	596		RAB4CQ101J
R	610,611		RS1/16SS5601F
R	633,643,653,663		RS1/16SS2200F
R	634,644,654,664		RS1/16SS4700F
R	673,683,1702		RS1/16SS2200F
R	674,684		RS1/16SS4700F
R	723		RS1/16S5101F
R	724		RS1/16S3900F
R	746,747,749		RAB4CQ100J
R	769,771,1322-1324		RAB4CQ220J
R	806,977,1031		RS1/16S0R0J
R	824		RS1/16SS1003F
R	851-854,1906,1907		RAB4CQ330J
R	867		RS1/16S2001F
R	868-871		RS1/16S49R9F
R	919		RS1/10S102J
R	1009,1056		RS1/16SS1002F
R	1011		RS1/16SS2001F
R	1016,1029,1030,1057		RS1/10S0R0J
R	1021,1022,1025,1026		ACN7160
R	1023		RS1/16SS4702F
R	1024,1027		RS1/16SS1502F
R	1028		RS1/16SS1202F
R	1055		RS1/16SS6802F
R	1071-1074,1905		RS1/16S0R0J
R	1158,1159		RS1/16SS1501F
R	1314-1317,1352		RAB4CQ100J
R	1327,1354-1361,1717		RAB4CQ220J
R	1389,1729,1730,1740		RAB4CQ560J
R	1403,1404,1409,1410		RAB4CQ0R0J
R	1405,1406,1411,1412		RAB4CQ470J
R	1701,1901,1902		RS1/10S0R0J
R	1703		RS1/16SS1500F
R	1706,1707		RS1/16SS9100F
R	1718		RAB4CQ220J
R	1726		RAB4CQ0R0J
R	1741,1743,1748,1754		RAB4CQ560J
R	1755		RAB4CQ560J
R	1792-1794		RAB4CQ473J
R	1822,1823		RS1/16SS8200F
R	1824		RS1/16SS3900F
R	1903,1904		RS1/16SS1001F
R	1914,1915		RAB4CQ330J
	Other Resistors		RS1/16SS###J

CAPACITORS

Mark	No.	Description	Part No.
C	11,31,372,801		CKSRYB104K16
C	12,32,1072		CKSQYB225K10
C	21,106-108,110		CKSSYB104K10
C	22,1702		CKSQYB475K6R3
C	23,1703		CEVW221M4
C	33		CEVW101M6R3
C	101,102,351,352		DCH1165
C	103,104,353-355		CKSQYB106K6R3
C	105,113,121,122		CKSSYB105K6R3
C	109,111,131,203		CKSSYB103K16
C	114-120,123-126		CKSSYB104K10
C	127,463,740,1339		CCSSCH120J50
C	128,462,741		CCSSCH100D50
C	129,130,133,356		CKSSYB105K6R3
C	132,134-139,201		CKSSYB104K10
C	140-153,155,156		CKSSYB471K50
C	157,401,402,503,1705,1906		VCH1234
C	159,160,1400		ACH7306
C	202		CEVW4R7M35
C	204,360,412,414		CKSSYB103K16
C	206-208,211,251		CKSSYB104K10
C	210,383-386		CKSSYB471K50
C	216-218,252,421		CKSSYB102K50
C	219,220,369		VCG1063
C	253,357,359,362		CKSSYB104K10

Mark	No.	Description	Part No.
C	358,361,363-365		CKSSYB105K6R3
C	366,367,374,403		CKSSYB104K10
C	368,404,433,505		CKSSYB105K6R3
C	370,371,1032		CKSRYB105K10
C	375-382		VCG1066
C	405-411,418,420		CKSSYB104K10
C	413		CKSSYB823K10
C	415		CKSRYB824K10
C	416		CKSSYB393K10
C	417,430,432,1157		CKSQYB106K6R3
C	419,434,601,611		CEVW101M16
C	422-429,431,437		CKSSYB104K10
C	435,436,501,613		CKSSYB103K16
C	438,441-443		CKSSYB104K10
C	439,440,1303,1704		DCH1201
C	445-449,461,502		CKSSYB104K10
C	481-485,619-622		CKSSYB471K50
C	504,506,511,551		CKSSYB104K10
C	512,735,1033,1034		CKSSYB102K50
C	552,602-609,612		CKSSYB104K10
C	610,791,1314-1318		CKSSYB105K6R3
C	614,615,617,631		CKSSYB104K10
C	632,642,652,662		CCSSCH101J50
C	633,643,653,663		CCSSCH560J50
C	641,651,661,671		CKSSYB104K10
C	672,682,951		CCSSCH101J50
C	673,683		CCSSCH560J50
C	681,701,702		CKSSYB104K10
C	704-709,711-717		CKSSYB104K10
C	710,742,743		CEVW100M16
C	718,721,744-750		CKSSYB471K50
C	719,722,724-734		CKSSYB104K10
C	720,867,870,883		CEVW220M16
C	723,936		CEVW470M6R3
C	736-739,861-865		CKSSYB104K10
C	792,860,866,869		CKSSYB471K50
C	802,807,1302,1305		CEVW101M16
C	803-805,1014,1057		CKSRYB104K16
C	868,871,872,874		CKSSYB104K10
C	873		CEVW330M16
C	875,1015,1046,1047		CCSRCH102J50
C	881,895,897-899		CKSSYB471K50
C	882,891-894,900		CKSSYB104K10
C	911,922,950,1081		CKSSYB104K10
C	912,921,1168-1175		CKSSYB471K50
C	932		VCH1268
C	934,935,937,938		CKSSYB103K16
C	939		CCSSCH180J50
C	940		CCSSCH150J50
C	946		CSZS330M6R3
C	1001		CKSQYB104K25
C	1002		CEVW101M25
C	1003,1004,1021,1022		CCG1195
C	1005,1011		CKSRYB682K25
C	1006,1039		CCSRCH681J50
C	1007,1029-1031,1041		CKSRYB104K25
C	1008		CKSQYB105K16
C	1009,1052,1151,1156		BCG1059
C	1023,1027		CCG1233
C	1024,1026		CKSQYB475K10

Mark	No.	Description	Part No.
C	1025,1028		CCSRCH101J50
C	1035,1040		CKSRYB223K16
C	1036		CKSRYB222K50
C	1037		CCSRCH470J50
C	1038		CCSRCH121J50
C	1042,1053		CKSRYB104K25
C	1051		CKSQYB105K25
C	1054		CCSSCH220J50
C	1056		CCSRCH151J50
C	1071,1099,1701,1710		CKSRYB104K16
C	1082,1152-1155		CKSSYB104K10
C	1101-1104,1352,1363		VCG1063
C	1158-1165,1167,1207		CKSSYB104K10
C	1166,1313		CKSSYB103K16
C	1208,1306,1308-1312		CKSSYB104K10
C	1301,1705,1906		VCH1234
C	1319-1322,1324-1332		CKSSYB104K10
C	1323,1333,1334		CKSSYB471K50
C	1335-1338,1341		CKSSYB104K10
C	1340		CCSSCH120J50
C	1342,1708		CEVW101M16
C	1343-1348,1350		CKSSYB471K50
C	1349,1917		CCSSCH471J16
C	1351		ACH7174
C	1353-1362,1747		CKSSYB105K6R3
C	1364-1368,1385-1388		CKSSYB471K50
C	1369		CKSRYB103K25
C	1381-1384,1401-1404		CKSSYB104K10
C	1399		VCG1063
C	1405-1408,1748-1754		CKSSYB471K50
C	1706,1709,1904,1905		DCH1201
C	1711-1717,1719-1721		CKSSYB104K10
C	1723-1727,1729-1736		CKSSYB104K10
C	1738,1739,1743,1745		CKSSYB104K10
C	1740,1741		CCSSCK1R0C50
C	1742		CKSSYB102K50
C	1746,1821,1861,1871		CKSSYB104K10
C	1822,1823		CCSSCH470J50
C	1901-1903		CKSQYB225K10
C	1907-1915		CKSSYB105K6R3
C	1916,1951		CKSSYB104K10
C	1918-1922		CKSSYB471K50

F INTERFACE ASSY

SEMICONDUCTORS

⚠	D	7101	D3SBA20(B)

MISCELLANEOUS

	H	7101,7102 FUSE CLIP	AKR7001
	J	7061 JUMPER WIRE	D20PDY0415E
	KN	7001-7006 WRAPPING TERMINAL	VNF1084
	CN	7001 7P PLUG	XKP3063
	CN	7002,7005,7006 CONNECTOR	CKS1730
	CN	7003,7004 CONNECTOR	CKS1727
	CN	7007 PLUG	CKS1724
	CN	7008,7014,7021 23P PLUG	XKP3071
	CN	7009,7013 CONNECTOR	CKS3813
	CN	7011 15P PLUG	XKP3067

Mark	No.	Description	Part No.
	CN 7012	CONNECTOR	CKS1721
	CN 7031	27P CONNECTOR	VKN1258
	CN 7032,7042	CONNECTOR	CKS3384
	CN 7041	CONNECTOR	CKS3386
	CN 7051	CONNECTOR	CKS3382
	CN 7062	CONNECTOR	CKS3380
	CN 7101	2P TOP POST	B2B-EH

RESISTORS

	All Resistors		RS1/16S###J

MISCELLANEOUS

	JH 7002-7005	PCB BINDER	VEF1040
	JH 7061	4P CABLE HOLDER	51048-0400
	JP 7071	4P HOUSING ASSY	ADX7676
	JP 7102	HOUSING ASSY	ADX7635
	JP 7103	HOUSING ASSY	ADX7634
	JP 7104	HOUSING ASSY	ADX7636

CAPACITORS

	C 7101		CFTLA394J50
	C 7102,7105-7109		CCSRCH102J50
	C 7104		CEAT682M25

G COMPONENT ASSY

SEMICONDUCTORS

	IC 6001-6004		TC74LVX4052FT
	IC 6005		TC74LVX4053FT
	IC 6006		LA7213
	IC 6007,6008		NJM2581M
	IC 6009,6012		TC4094BFN
	IC 6010,6013-6015		TC74VHCT08AFTS1
	Q 6001-6007,6017,6018		2SA1602A
	Q 6008,6019,6021		RT1N241M
⚠	Q 6015		2SC4154
⚠	Q 6016		2SA1602A
	Q 6020		2SA1602A
	D 6001		1SS352
	D 6002,6003		RR264M-400
	D 6010		UDZS5R1(B)

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	13P PLUG	XKP3066
	CN 6006	16P CONNECTOR	VKN1420
	CN 6007	5P HOUSING ASSY	ADX7654
	CN 6008	5P HOUSING ASSY	ADX7674
	CN 6009	30P SOCKET	XKP3092

RESISTORS

	R 6007,6012,6017		RS1/16S1103D
	Other Resistors		RS1/16S###J

CAPACITORS

	C 6004,6048,6049,6060		CCSRCH102J50
	C 6012,6013,6016,6017		CKSRYB103K50
	C 6018,6021,6024		CEAT100M50
	C 6019,6020,6022,6023		CKSRYB103K50
	C 6025		CEAT3R3M50
	C 6026,6027,6111,6112		CKSRYB103K50
	C 6028,6038,6039		CEAT101M10
	C 6043-6045,6050,6051		CEAT101M10
	C 6046,6047,6058,6059		CKSRYB105K10
	C 6055-6057		CEAT101M10
	C 6061,6065,6069,6071		CCSRCH102J50
	C 6064,6070,6072,6074		CKSRYB105K10
	C 6068		CKSRYB105K16
	C 6073,6075,6085,6087		CCSRCH102J50
	C 6084,6086,6088,6091		CKSRYB105K10
	C 6089,6092,6095,6100		CCSRCH102J50
	C 6090,6093		ACH1479
	C 6094,6099,6101,6105		CKSRYB105K10
	C 6096,6103,6104,6143		CEAT101M16
	C 6097,6098		CKSRYB224K10
	C 6102,6106,6108,6138		CCSRCH102J50
	C 6107,6137,6147,6148		CKSRYB105K10
	C 6110,6115-6117		CKSRYB104K16
	C 6113,6114,6121-6124		CCSRCH100D50
	C 6125-6136,6184		CKSRYB103K50
	C 6144,6174,6176,6177		CEAT101M16
	C 6146,6149,6150,6153		CCSRCH102J50
	C 6151,6152,6155,6157		CKSRYB105K10
	C 6154,6156,6159,6160		CCSRCH102J50
	C 6158,6161,6162,6165		CKSRYB105K10
	C 6163,6164,6172,6173		CCSRCH102J50
	C 6175,6181,6197-6199		CCSRCH100D50
	C 6179,6180,6182,6183		CEAT101M16
	C 6185,6187		CKSRYB105K10
	C 6186,6188,6196		CCSRCH102J50
	C 6189-6191		CEAT100M50

H COMPOSITE S ASSY

SEMICONDUCTORS

	IC 6501,6512		TC4094BFN
	IC 6502,6513		LA7109
	IC 6505,6506,6508,6509		TC74HC4051AFT
	IC 6510		LA7213
	IC 6511		TC74HC4053AFT
	IC 6516-6518		NJM2505AF
	Q 6501-6508		IMX25
	Q 6509		2SA1602A
	Q 6510		RT1N241M
	Q 6516,6524,6525		2SC4154
	D 6501		1SS352
	D 6502,6503		RR264M-400
	D 6504-6508		DAN217U

MISCELLANEOUS

	JA 6501,6502	PIN JACK(4P)	XKB3017
	JA 6503	COMB.JACK(S+1P)	AKB7199
	JA 6504-6507	COMB.JACK(2S+2P)	AKB7200
	JA 6509	JACK	XKB3069
	KN 6501-6503	SCREW PLATE	VNE1948
	CN 6501	CONNECTOR	CKS3374
	CN 6502	19P CONNECTOR	52044-1945
	CN 6503	PLUG	CKS3545

Mark	No.	Description	Part No.
RESISTORS			
		All Resistors	RS1/16S###J
CAPACITORS			
C	6501,6503,6509,6547		CKSRYB105K10
C	6502,6504,6506,6508		CCSRCH102J50
C	6505,6507,6670-6673		CKSRYB105K16
C	6510,6548,6550-6555		CCSRCH102J50
C	6511,6512,6519,6520		CCSRCH101J50
C	6517,6518,6525,6526		CCSRCH331J50
C	6527,6528,6535,6536		CCSRCH101J50
C	6533,6534,6541,6542		CCSRCH331J50
C	6544,6599,6600,6605		CKSRYB103K50
C	6549,6556,6558,6567		CEAT101M10
C	6557,6559,6566,6568		CKSRYB104K16
C	6560-6565,6576,6578		CCSRCH181J50
C	6581,6586,6587,6601		CEAT101M10
C	6584,6585		CCSRCH181J50
C	6598		CEAT100M50
C	6602-6604,6641,6643		CKSRYB104K16
C	6606,6608,6609,6611		CKSRYB103K50
C	6607,6610,6613		CEAT220M50
C	6612,6648,6694,6698		CKSRYB103K50
C	6620,6621,6662-6667		CEAT101M16
C	6624		CKSRYB105K10
C	6625,6634-6639,6660		CCSRCH102J50
C	6640,6642		CEAT101M10
C	6650-6655,6689		CCSRCH100D50
C	6661,6668,6669,6674		CCSRCH102J50
C	6675,6679-6681		CCSRCH102J50
C	6676-6678,6682-6684		CKSRYB105K16
C	6685-6687,6692,6693		CCSRCH102J50
C	6688		CEAT101M16
C	6690,6691		CKSRYB105K16
C	6696,6697,6699,6700		CKSQYB106K6R3
C	6701,6704		CKSRYB103K50
C	6702,6703		CKSQYB106K6R3
C	6708-6710,6712		CEAT220M50
C	6714-6716		CEAT220M50
C	6717-6722		CKSRYB104K16

I FRONT BRIDGE ASSY

Mark	No.	Description	Part No.
MISCELLANEOUS			
CN	7701	PLUG(6P)	KM200NA6R
CN	7704	19P CONNECTOR	52044-1945
CN	7705,7708	CONNECTOR	CKS3374
CN	7706	CONNECTOR	CKS3378
CN	7707	CONNECTOR	CKS3382
CN	7709	PLUG(3P)	KM200NA3
CN	7710	27P CONNECTOR	VKN1287
	7701	PCB BINDER	VEF1040
RESISTORS			
		All Resistors	RS1/16S###J
MISCELLANEOUS			
JH	7702	PCB BINDER	VEF1040
CAPACITORS			
C	7702,7704		CCSRCH102J50
C	7703		CKSRYB103K50
C	7711-7714		CCSRCH100D50
C	7715		CCSRCH181J50

J V-BRIDGE ASSY

Mark	No.	Description	Part No.
MISCELLANEOUS			
CN	8601,8602	CONNECTOR	CKS3573
CAPACITORS			
C	8602-8604		CKSRYB103K50

K DISPLAY ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
IC	8001		PDC179A8
IC	8002		GP1UE274XKC1
⚠ IC	8004		S-1200B33-M5
IC	8201		PE5615A
Q	8001-8007		RT1N431M
Q	8009		2SA1602A
Q	8010		RT1N241M
Q	8012		2SK2034
D	8001,8003,8005,8007		SLR-343VC(NPQ)
D	8009,8013		SLR343BC4T(JKLM)
D	8011		SLR343WBCT(MNPQ)
D	8015,8016,8202		1SS352
D	8017,8201		MC2848-11
D	8019		RB751V-40
D	8020		1SS302
MISCELLANEOUS			
L	8201	INDUCTOR	CTF1385
J	9201	3P JUMPER WIRE	D20PDD0305E
J	9203	4PJUMPER WIRE	D20PDD0410E
KN	8201	FL HOLDER(FE)	VNF1096
V	8201	FL TUBE DISPLAY	AAV7113
S	8001-8012,8015-8020	SWITCH	VSG1024
S	8023	SWITCH	VSG1024
S	8024	ROTARY ENCODER	ASX7051
X	8002	CRYSTAL OSCILLATOR CRYSTAL OSC (15.0 MHz)	CSS1653
X	8201	CERAMIC RESONATOR (5.00 MHz)	VSS1142
CN	8001	29P CONNECTOR	VKN1872
CN	8002	9P CONNECTOR	VKN1269
RESISTORS			
		All Resistors	RS1/16S###J
MISCELLANEOUS			
JH	8001	3P CABLE HOLDER	51048-0300
JH	8003	4P CABLE HOLDER	51048-0400
JH	8201	6P HOUSING ASSY	ADX7675
CAPACITORS			
C	8001-8007		CCSRCH101J50
C	8008		CCSRCH471J50
C	8009,8015,8016,8018		CKSRYB104K16
C	8012,8013		CCSRCH150J50
C	8014,8030,8031,8228		CKSRYB105K10
C	8019-8021,8202,8223		CKSRYB102K50
C	8022,8027,8034,8035		CKSRYB103K50
C	8023,8025,8026,8233		CCSRCH102J50
C	8024		ACH7272

Mark	No.	Description	Part No.
C	8032,8033,8036,8224		CKSRYB104K16
C	8037		CCSRCH151J50
C	8201,8230		CKSRYB104K50
C	8203		CEAT101M35
C	8204-8220,8226		CKSRYB471K50
C	8221		ACH7268
C	8222,8232		CKSRYB103K50
C	8225,8227		CKSRYB104K16
C	8229		CKSRYB102K50
C	8231		CEAT470M50

L VOL ASSY

MISCELLANEOUS

S	8401	ROTARY ENCODER	ASX7049
JH	8401	3P CABLE HOLDER	51048-0300

CAPACITORS

C	8401,8402		CKSRYB103K50

M POWER SW ASSY

SEMICONDUCTORS

Q	8501		RT1N431M
D	8502		SLR343BC4T(JKLM)

MISCELLANEOUS

S	8501	SWITCH	VSG1024

RESISTORS

All Resistors			RS1/16S###J

MISCELLANEOUS

JH	8501	4P CABLE HOLDER	51048-0400

CAPACITORS

C	8501		CCSRCH101J50

N PRE BRIDGE ASSY

MISCELLANEOUS

CN	6951	19P CONNECTOR	52044-1945
CN	6952	21P PLUG	XKP3070
CN	6953	FLOATING CONNECTOR	AKP7227

O ICE BUFFER ASSY

SEMICONDUCTORS

IC	6800,6820,6840,6860		UPC4570G2-A
IC	6880,6900,6920		UPC4570G2-A

MISCELLANEOUS

J	6800	JUMPER WIRE	D20PDY0410E
KN	6800,6801	SCREW PLATE	VNE1948
CN	6800	FLOATING CONNECTOR	AKM7086
CN	6810	19P PLUG	XKP3069
CN	6820	17P PLUG	XKP3068
CN	6830	5P SOCKET	XKP3073
JH	6800	4P CABLE HOLDER	51048-0400

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			RS1/16S###J

CAPACITORS

C	6801,6802,6821,6822		CEJQ221M16
C	6803,6804,6823,6824		CFHXSQ103J16
C	6807,6808,6817,6818		CCSRCH102J50
C	6827,6828,6837,6838		CCSRCH102J50
C	6841,6842,6861,6862		CEJQ221M16
C	6843,6844,6863,6864		CFHXSQ103J16
C	6847,6848,6857,6858		CCSRCH102J50
C	6867,6868		CCSRCH102J50
C	6881,6882,6901,6902		CEJQ221M16
C	6883,6884,6903,6904		CFHXSQ103J16
C	6921,6922		CEJQ221M16
C	6923,6924		CFHXSQ103J16

P ICE INTERFACE ASSY

MISCELLANEOUS

CN	3800	19P SOCKET	XKP3080
CN	3801	17P SOCKET	XKP3079
CN	3810,3840,3870	5P SOCKET	XKP3073
CN	3820,3830,3850,3860	PLUG	CKS1750

Q ICEPOWER AMP ASSY

SEMICONDUCTORS

IC	4000,4001		BU7262SFVM
IC	4003		TC74VHC04FTS1
IC	4004		TC74VHC08FTS1
IC	4005		HA17431GLTPA
IC	4006		TC7WH08FU
⚠ IC	4101,4201,4301,4401		ICC3-AVR
IC	4200,4400,4600,4700		ICC1-AVR
IC	4202,4402,4602,4702		UPC4570G2-A
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		RT1N241M
Q	4001,4111,4211,4311		2SA1602A
Q	4004,4006,4008,4010		RT1P241M
Q	4005,4007,4009,4011		RT1N140M
Q	4012,4013		RT3AMMM
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

Mark	No.	Description	Part No.
⚠	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
	L	4902,4903 CHIP COIL	ATL7016
	JA	4101 SP TERMINAL 6-P(V0)	AKE7138
	JA	4301,4501 SP TERMINAL 4-P(V0)	AKE7136
	KN	4100,4200,4300,4400 SCREW PLATE	VNE1948
	RY	4100,4300,4500,4700 RELAY	ASR7001
	CN	4000 CONNECTOR	CKS3382
	CN	4100,4200,4400,4500 CONNECTOR	CKS1716
	CN	4300,4600,4700 5P PLUG	XKP3062
	CN	4900 4P-TOP POST(VH)	B4P-VH
	CN	4901 PLUG(2P)	KM200NA2
	CN	4902 PLUG(4P)	KM200NA4
	CN	4903 PLUG(6P)	KM200NA6
		4100,4200,4300,4400,4500,4600,4700 COIL SHIELD 60(MTL)	ANK7139

RESISTORS

	R	4057	RS1/8SQ471J
	R	4060,4139,4239,4339	RS1/16S5602F
	R	4061	RS1/16S3302F
	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	RS1/16S1001F
	R	4124,4224,4324,4424	RS1/16S2702F
	R	4126,4127,4226,4227	RS1/16S1501F
	R	4128,4228,4328,4428	RS1/10S2702F
	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	RS1/16S1802F
	R	4133,4135,4156,4176	RS1/16S1801F
	R	4134,4234,4334,4434	RS1/16S1201F
	R	4136,4236,4336,4436	RS1/16S1502F
	R	4137,4237,4337,4437	RS1/4SA2702F
	R	4138,4238,4338,4438	RS1/16S2701F
	R	4145,4150,4245,4250	RS1/10S1002F
	R	4146,4246,4346,4446	RS1/16S3902F
	R	4147-4149,4161,4162	ACN7165
	R	4151,4152,4251,4252	ACN7162
	R	4153,4253,4353,4453	RS1/10S334J
	R	4154,4254,4354,4454	ACN7161
	R	4155,4255,4355,4455	RS1/10S1502F
	R	4163,4263,4363,4463	RS1/4SA1053F
	R	4164,4264,4364,4464	RS1/16S3301F
	R	4166,4266,4366,4466	RS1/16S1002F
	R	4168,4268,4368,4468	RS1/16S2202F
	R	4169,4269,4369,4469	RS1/16S1202F
	R	4177,4277,4377,4477	RS1/4SA2002F
	R	4225,4267,4323,4325	RS1/16S1001F
	R	4233,4235,4256,4276	RS1/16S1801F
	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	RS1/16S1501F
	R	4333,4335,4356,4376	RS1/16S1801F
	R	4345,4350,4445,4450	RS1/10S1002F
	R	4347-4349,4361,4362	ACN7165
	R	4351,4352,4451,4452	ACN7162
	R	4367,4423,4425,4467	RS1/16S1001F
	R	4433,4435,4456,4476	RS1/16S1801F
	R	4439,4539,4639,4739	RS1/16S5602F
	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	RS1/16S1001F
	R	4524,4624,4724	RS1/16S2702F
	R	4526,4527,4626,4627	RS1/16S1501F
	R	4528,4628,4728	RS1/10S2702F
	R	4529,4629,4729	RS1/8SQ1R0J
	R	4530,4630,4730	RS1/8SQ4702F
	R	4531,4631,4731	RS1/8SQ6802F
	R	4532,4632,4732	RS1/16S1802F
	R	4533,4535,4556,4576	RS1/16S1801F
	R	4534,4634,4734	RS1/16S1201F
	R	4536,4636,4736	RS1/16S1502F
	R	4537,4637,4737	RS1/4SA2702F
	R	4538,4638,4738	RS1/16S2701F
	R	4545,4550,4645,4650	RS1/10S1002F

Mark	No.	Description	Part No.
R	4546,4646,4746		RS1/16S3902F
R	4547-4549,4561,4562		ACN7165
R	4551,4552,4651,4652		ACN7162
R	4553,4653,4753		RS1/10S334J
R	4554,4654,4754		ACN7161
R	4555,4655,4755		RS1/10S1502F
R	4563,4663,4763,4863		RS1/4SA1053F
R	4564,4664,4764,4864		RS1/16S3301F
R	4566,4666,4766,4900		RS1/16S1002F
R	4568,4668,4768		RS1/16S2202F
R	4569,4669,4769		RS1/16S1202F
R	4577,4677,4777		RS1/4SA2002F
R	4625,4667,4723,4725		RS1/16S1001F
R	4633,4635,4656,4676		RS1/16S1801F
R	4647-4649,4661,4662		ACN7165
R	4700,4701		RN1/16SE1000D
R	4702,4703		RN1/16SE9100D
R	4704,4705		RN1/16SE1001D
R	4726,4727		RS1/16S1501F
R	4733,4735,4756,4776		RS1/16S1801F
R	4745,4750		RS1/10S1002F
R	4747-4749,4761,4762		ACN7165
R	4751,4752		ACN7162
R	4767		RS1/16S1001F
R	4901		RS1/16S3301F
R	4902		RS2LMF682J
	Other Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
C	4001-4004,4011-4021		CCSRCH102J25
C	4005,4006,4026,4027		CKSRYB104K16
C	4010,4036,4916,4917		CEHAT331M10
C	4022,4025,4029,4040		CKSRYB105K10
C	4023		CKSYB106K10
C	4024		CEHAT101M10
C	4028,4926		CKSRYB103K25
C	4031-4035,4041,4121		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		CEHAT221M25
C	4109,4209,4309,4409		CFHXSQ103J16
C	4112,4113,4117,4212		ACH1479
C	4114,4214,4314,4414		ACG7068
C	4115,4118,4120,4130		CKSRYB105K10
C	4116,4151,4216,4251		CKSRYB105K16
C	4119,4219,4319,4419		CKSQYB474K16
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
C	4129,4152,4153,4156		CKSRYB104K16
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		ACH7304
C	4155,4255,4355,4455		CKSYB475K25
C	4157,4257,4357,4457		CKSRYB222K50
C	4160,4260,4360,4460		CCSRCH102J50
C	4213,4217,4312,4313		ACH1479
C	4220,4230,4247,4248		CKSRYB105K10
C	4221,4229,4252,4253		CKSRYB104K16
C	4258,4321,4329,4352		CKSRYB104K16
C	4304,4305,4404,4405		ACG7069
C	4306,4307,4406,4407		ACG7072
C	4315,4318,4320,4330		CKSRYB105K10
C	4316,4351,4416,4451		CKSRYB105K16
C	4317,4412,4413,4417		ACH1479
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		ACH7304
C	4353,4356,4421,4429		CKSRYB104K16
C	4420,4430,4447,4448		CKSRYB105K10
C	4452,4453,4458,4521		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		CEHAT221M25
C	4509,4609,4709,4809		CFHXSQ103J16
C	4512,4513,4517,4612		ACH1479
C	4514,4614,4714		ACG7068
C	4515,4518,4520,4530		CKSRYB105K10
C	4516,4551,4616,4651		CKSRYB105K16
C	4519,4619,4719		CKSQYB474K16
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	4529,4552,4553,4556		CKSRYB104K16
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		ACH7304
C	4555,4655,4755		CKSYB475K25
C	4557,4657,4757,4857		CKSRYB222K50
C	4560,4660,4760,4860		CCSRCH102J50
C	4613,4617,4712,4713		ACH1479
C	4620,4630,4647,4648		CKSRYB105K10
C	4621,4629,4652,4653		CKSRYB104K16
C	4658,4721,4729,4752		CKSRYB104K16
C	4704,4705		ACG7069

Mark	No.	Description	Part No.
	C	4706,4707	ACG7072
	C	4715,4718,4720,4730	CKSRYB105K10
	C	4716,4751,4912,4913	CKSRYB105K16
	C	4717,4817	ACH1479
	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	ACH7304
	C	4753,4756,4758	CKSRYB104K16
	C	4900-4905	ACH7305
	C	4908	CEHAT221M25
	C	4909,4924,4925	CKSRYB104K25
	C	4914,4915	CKSQYB104K16
	C	4920,4921	CKSQYB105K25
	C	4930,4931	CCSRCH102J50

R ICE SHIELD ASSY

MISCELLANEOUS

	KN	6990 SCREW PLATE	VNE1948
	JH	6990 4P JUMPER CONNECTOR	52147-0410

S ZOUT ASSY

SEMICONDUCTORS

	Q	6401,6411	IMX25

MISCELLANEOUS

	JA	6401 PIN JACK(4P)	XKB3017
	CN	6401 11P CONNECTOR	52044-1145

RESISTORS

	All Resistors		RS1/16S###J

CAPACITORS

	C	6401,6402,6411,6412	CCSRCH471J50
	C	6421,6423	CKSRYB103K50

T PRIMARY ASSY

SEMICONDUCTORS

⚠	IC	8711	NJM78M56FA
	Q	8712	RT1N431M
	D	8703,8704,8719	1SS352
⚠	D	8711	S1WB(A)60SD
	D	8717	1SS357
	D	8718	UDZS5R1(B)

MISCELLANEOUS

⚠	L	8701 LINE FILTER	XTF3004
	H	8701,8702 FUSE CLIP	AKR7001
⚠	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	ATT7040
⚠	CN	8702 CONNECTOR(VH)	B3P5-VH
	CN	8711 PLUG(5P)	KM200NA5
	JH	8701 PCB BINDER	VEF1040

RESISTORS

	R	8702	RD1/4MUF220J
	Other Resistors		RS1/16S###J

CAPACITORS

⚠	C	8701,8702	ACE7013
⚠	C	8704	ACG7039
	C	8711	CFTLA103J50
	C	8712-8715,8720	CCSRCH102J50
	C	8716	CEAT332M25
	C	8717,8719	CKSRYB103K50
	C	8718	CEAT221M25

U PRIMARY GUARD ASSY

MISCELLANEOUS

	CN	5752 5P PLUG	XKP3062

V REG ASSY

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	HZU6R2(B2)
	D	7625	PTZ24(B)

MISCELLANEOUS

	H	7501-7504,7601-7604 FUSE CLIP	AKR7001
	CN	7501,7601 5P TOP POST	B5B-EH
	CN	7502 PLUG(5P)	KM200NA5R
	CN	7602 PLUG(5P)	KM200NA5E
	CN	7621 PLUG(6P)	KM200NA6
	JH	7502,7601 PCB BINDER	VEF1040
⚠	P	7521,7522 PROTECTOR(1A)	AEK7009

RESISTORS

	R	7621	RS1/16S473J
⚠	Other Resistors		RD1/4MUF###J

CAPACITORS

	C	7500,7520,7600,7634	CFTLA394J50
	C	7501	CEAT332M25
	C	7502,7521	CEAT222M25
	C	7505,7506,7522,7603	CKSRYB103K50
	C	7507,7508	CEAT221M25
	C	7523	CEAT221M16
	C	7601	CEAT472M16
	C	7602	CEAT222M16
	C	7604,7613,7626	CKSRYB103K50
	C	7605,7606,7624	CEAT101M16

Mark	No.	Description	Part No.
	C	7611	CEAT102M35
	C	7612	CEAT471M35
	C	7614	CEAT100M50
	C	7621	CEANP101M35
	C	7622	CEAT101M35
	C	7623	CEAT221M35
	C	7625	CEAT470M50
	C	7628,7632	CCSRCH102J50
	C	7629	CFTLA104J50

W ICE REG ASSY

SEMICONDUCTORS

⚠	IC	7251	NJM78M12FA
⚠	IC	7252	NJM79M12FA
⚠	IC	7271	NJM78M05FA
⚠	IC	7272	NJM79M05FA
⚠	Q	7201	RSQ035P03
⚠	Q	7202	RSQ035N03
	Q	7203,7204	RT1N431M
	Q	7205,7222	RT1P431M
⚠	Q	7211	2SD1763A
⚠	Q	7212	2SB1186A
	Q	7221	RT1N241M
	Q	7241	2SD1763A
	Q	7242	2SC4154
⚠	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	AKR7001
	H	7251-7254 FUSE CLIP	AKR7001
	CN	7201 8P TOP POST	B8B-EH
	CN	7241 PLUG(2P)	KM200NA2
	CN	7251 PLUG(6P)	KM200NA6E
	CN	7271 PLUG(4P)	KM200NA4
	CN	7302 PLUG(6P)	KM200NA6R
	JH	7251-7253 PCB BINDER	VEF1040

RESISTORS

	R	7211,7213	RD1/4MUF102J
	R	7241	RS1/4S152J
	R	7255,7256	RS1/10S0R0J
	Other Resistors		RS1/16S###J

CAPACITORS

	C	7200,7240,7250,7270	CFTLA394J50
	C	7201,7202	CEAT102M16
	C	7211-7215,7219,7245	CEAT100M50
	C	7217,7218,7242,7253	CKSRYB103K50
	C	7221,7246	CEAT470M25
	C	7241,7251,7252	CEAT222M25
	C	7254,7273,7274	CKSRYB103K50
	C	7255,7256	CEAT221M25
	C	7271,7272	CEAT222M16
	C	7275,7276	CEAT221M16
	C	7277,7278	CCSRCH102J50

X B DIODE ASSY

SEMICONDUCTORS

⚠	D	7400,7401	LN6SB60-4003

MISCELLANEOUS

	CN	7400 CONNECTOR	B3P-VH
		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

Y B REG ASSY

SEMICONDUCTORS

⚠	IC	7300,7301	HA17431GLTPA
⚠	IC	7302,7303	NJM2746V
⚠	Q	7300	2SD2083(Y)
⚠	Q	7301	2SB1383(Y)
	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	AKR7001
	CN	7303 4P-TOP POST(VH)	B4P-VH
	CN	7306 PLUG(4P)	KM200NA4
	CN	7308 CONNECTOR	B3P-VH
	JH	7300 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	RS1/10S473J
	R	7322,7323	RS2LMF152J
	R	7324,7325	RS1/10S100J
	R	7326-7329	RS1LMF332J
	R	7332,7333	RN1/10SE8202D

Mark	No.	Description	Part No.
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		RS1/16S###J

CAPACITORS

C	7302,7303,7376-7379		CCSRCH102J50
C	7304-7307,7350		CKSRYB104K50
C	7310,7311		CKSRYB473K50
C	7318,7319		CCG1248
C	7320,7321		CEAT4R7M50
C	7324,7325		CEHAT470M2A
C	7326,7327		ACG7064
C	7380-7384		CKSRYB104K50
C	7386		CCSRCH102J50

Z DCDC ASSY

SEMICONDUCTORS

⚠ IC	3901		PQ1CG3032FZ
D	3901		RB050L-40
⚠ D	3902		PTZ6R8(B)

MISCELLANEOUS

L	3901	INDUCTOR	ATH7052
CN	3901	CONNECTOR	B2B-EH-E
CN	3902	CONNRCTOR	B2B-EH-Y
	3900	HEAT SINK	ANH-309
	3901	SCREW	BBZ30P080FCC
JH	3901	PCB BINDER	VEF1040

RESISTORS

R	3901		RN1/16SE1001D
R	3902		RN1/16SE3301D
	Other Resistors		RS1/16S###J

CAPACITORS

C	3901		CEHAZL471M25
C	3902		CKSYB105K25
C	3903		CKSRYB104K25
C	3905		CEHAZL221M10
C	3906,3910		CCSRCH102J50
C	3911		CFTLA394J50

AA HDMI RECT ASSY

SEMICONDUCTORS

⚠ D	8801		D5SBA20(B)

MISCELLANEOUS

H	8801,8802	FUSE CLIP	AKR7001
CN	8801	3P TOP POST	B3B-EH
CN	8802	CONNECTOR	B2B-EH-R

CAPACITORS

C	8800		CFTLA274J50
C	8801		ACH7286
C	8803		CCSRCH102J50

Mark	No.	Description	Part No.

FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service parts.