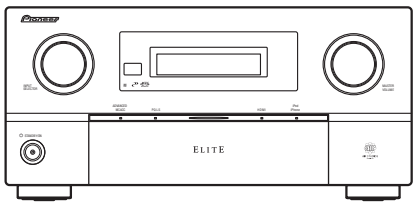
Pioneer

Service Manual



SC-37

ORDER NO.
RRV4137

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

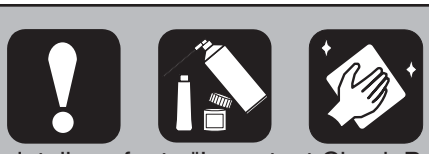
SC-37
SC-35
SC-1525-K

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

Model	Type	Power Requirement	Remarks
SC-37	UXJCB	AC 120V	
SC-35	UXJCB	AC 120V	
SC-1525-K	CUXJ	AC 120V	

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

Model No.	Order No.	Remarks
SC-37 SC-35 SC-1525-K	RRV4138	PCB RETRIEVAL DIAGRAM



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

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ⓒPIONEER CORPORATION 2010

K-FZV JUNE 2010 Printed in Japan

SAFETY INFORMATION

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

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

Health & Safety Code Section 25249.6 - Proposition 65

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

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

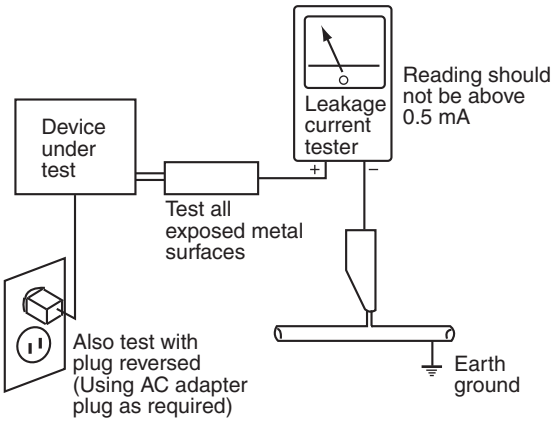
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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



AC Leakage Test

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

2. PRODUCT SAFETY NOTICE

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

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

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

[Important Check Points for Good Servicing]

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

1. Product safety



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

① Use specified parts for repair.

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

② Do not perform modifications without proper instructions.

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

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

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

④ Make sure the screws are tightly fastened.

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

⑤ Make sure each connectors are correctly inserted.

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

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

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

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

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

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

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

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

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

⑩ Safe environment should be secured during servicing.

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

2. Adjustments



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

3. Lubricants, Glues, and Replacement parts



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

4. Cleaning



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

5. Shipping mode and Shipping screws



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

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

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

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

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

1.2 NOTES ON REPLACING

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

ASSY NAME	PCB ASSY Part No.	Parts that is Difficult to Replace			
		Ref No.	FUNCTION	Part No.	Remarks
DIGITAL MAIN ASSY	AWX9620 (SC-37)	IC101	MAIN CPU	UPD61283F1-407LU2A	BGA
		IC904	HDMI Reciver	SII9233ACTU	IC with heat-pad
		IC1204	Digital Video Format Converter	88DE2750	BGA
		IC1212	DDR2 SDRAM	EDE5116AJBG-8E-E	BGA
		IC9202	2NDDSP	D787E001BRFP250L	IC with heat-pad
		IC9503	HDMI Processor	DM850E-UFS	IC with heat-pad
		IC9802	Regulator	NJM2846DL3-33	IC with heat-pad
		IC9803	Regulator	NJM2846DL3-18	IC with heat-pad
		IC9804	Regulator	NJM2846DL3-18	IC with heat-pad
		IC9805	Regulator	NJM2846DL3-33	IC with heat-pad
		IC9810	Regulator	MM1701WH	IC with heat-pad
		IC9811	Regulator	NJM2846DL3-33	IC with heat-pad
		C9844	Capacitor	ACH7309	Land of component lower part
		C9845	Capacitor	ACH7314	Land of component lower part
	AWX9621 (SC-35,SC-1525-K)	IC101	MAIN CPU	UPD61283F1-407LU2A	BGA
		IC904	HDMI Reciver	SII9233ACTU	IC with heat-pad
		IC1204	Digital Video Format Converter	88DE2750	BGA
		IC1212	DDR2 SDRAM	EDE5116AJBG-8E-E	BGA
		IC9506	Ethernet Controller	LAN9211-ABZJ	IC with heat-pad
		IC9804	Regulator	NJM2846DL3-18	IC with heat-pad
		IC9810	Regulator	MM1701WH	IC with heat-pad
		IC9811	Regulator	NJM2846DL3-33	IC with heat-pad
		C9844	Capacitor	ACH7309	Land of component lower part
		C9845	Capacitor	ACH7314	Land of component lower part

1.3 CAUTION

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

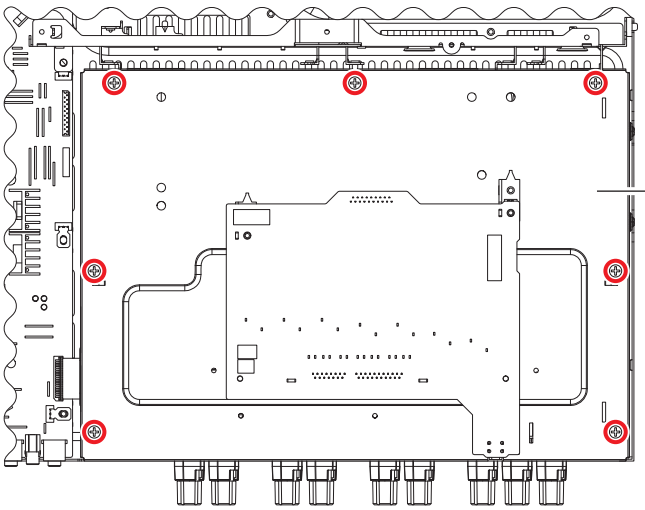
- **Ground Points**
  Please refer to page 74, “Ground Points”.

1.4 NOTES ON ASSEMBLING

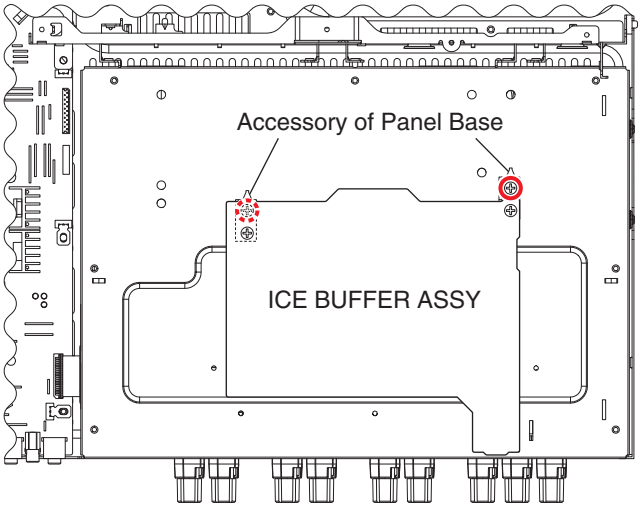
Note : The right and left positions for the attachment positioning of ICE amplifier block are gradual, however, adjust the front and back positions correctly. For the positioning procedure, refer to "7. DISASSEMBLY".

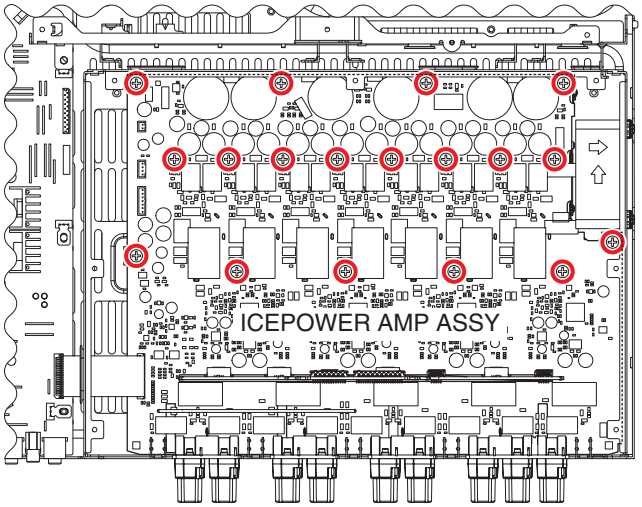
When assembling the ICE amplifier block, please note the following points of screws to prevent from short-circuit.

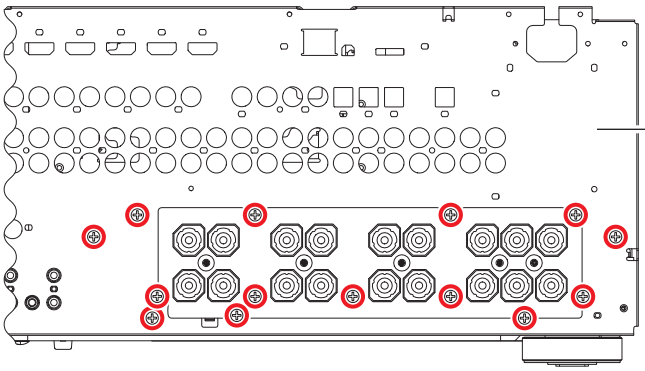
The following 7 points of screws must always be used AMZ30P060FTC



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 SPECIFICATIONS

Amplifier Section

Continuous average power output of 140 watts* per channel, min., at 8 ohms, from 20 Hz to 20 000 Hz with no more than 0.08 % total harmonic distortion.**

Multi channel simultaneous power output (1 kHz, 1 %, 8 Ω)
7 ch total . . . . . .770 W (SC-37)/700 W (SC-35)
Continuous Power Output (20 Hz to 20 kHz, 8 Ω, 0.08 %)
Front. . . . . 140 W + 140 W
Center . . . . . 140 W
Surround. . . . . 140 W + 140 W
Surround back (Front height/wide). . . . . 140 W + 140 W
Continuous Power Output (1 kHz, 6 Ω, 1.0 %)
Front. . . . . 180 W + 180 W
Center . . . . . 180 W
Surround. . . . . 180 W + 180 W
Surround back (Front height/wide). . . . . 180 W + 180 W
Total harmonic distortion. . . . . 0.05 %
(20 Hz to 20 kHz, 130 W, 8 Ω)

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

Audio Section

Input (Sensitivity/Impedance)
PHONO MM . . . . . .5 mV/47 k Ω
LINE . . . . . .400 mV/47 k Ω
Output (Level/Impedance)
REC . . . . . 400 mV/2.2 kΩ
Signal-to-Noise Ratio (IHF, short circuited, A network)
LINE . . . . . .103 dB
Frequency Response . . . . . .5 Hz to 100 000 Hz $^{+0}_{-3}$ dB
(Pure Direct Mode)

Tuner Section

Frequency Range (FM). . . . . 87.5 MHz to 108 MHz
Antenna Input (FM) . . . . . .75 Ω unbalanced
Frequency Range (AM). . . . . 531 kHz to 1602 kHz
Antenna (AM) . . . . . Loop antenna (balanced)

Video Section

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

Digital In/Out Section

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

Integrated Control Section

Control (SR) terminal . . . . . .Ø 3.5 Mini-jack (MONO)
Control (IR) terminal . . . . . .Ø 3.5 Mini-jack (MONO)
IR signal . . . . . High Active (High Level: 2.0 V)
12 V Trigger terminal. . . . . .Ø 3.5 Mini-jack (MONO)
12 V Trigger output type . . . . . 12 V, Total 150 mA
RS-232C cable type . . . . . 9- pin, cross type, female-female
EXTENSION terminal (SC-35 only) . . . . . .5 V, 150 mA
CU-RF100 terminal (SC-37 only) . . . . . .5 V, 150 mA

Network Section

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

Remote control unit (SC-37 only)

Power . . . . . DC 3 V
Estimated line-of-sight transmission distance*
. . . . . About 10 m
Radio frequency band. . . . . 2.4 GHz
Modulation system
. . . . . .Direct Sequence Spread Spectrum (DSSS)
Dimensions . . . . . .51 mm (W) x 255 mm (H) x 34 mm (D)
(2 1/16 in. (W) x 10 1/16 in. (H) x 1 3/8 in. (D))
Weight . . . . . 190 g (0.4 lb)

RF adapter (SC-37 only)

Power . . . . . DC 5 V
Estimated line-of-sight transmission distance*
. . . . . About 10 m
Radio frequency band. . . . . 2.4 GHz
Modulation system
. . . . . .Direct Sequence Spread Spectrum (DSSS)
Dimensions . . . . . 49 mm (W) x 21 mm (H) x 64.5 mm (D)
(2 in. (W) x 7/8 in. (H) x 2 9/16 in. (D))
Weight . . . . . 90 g (0.2 lb)

* The line-of-sight transmission distance is an estimate. Actual transmission distances supported may differ depending on surrounding conditions.

Miscellaneous

Power requirements . . . . . .AC 120 V, 60 Hz
Power consumption . . . . . .330 W
In standby . . . . . .0.2 W (HDMI Setup – Control : OFF)
0.3 W (HDMI Setup – Control : ON)
Dimensions . . . . . .420 mm (W) x 200 mm (H) x 460 mm (D)
(16 9/16 in. (W) x 7 7/8 in. (H) x 18 1/8 in. (D))
Weight (without package). . . . . .18.5 kg (40.8 lb)

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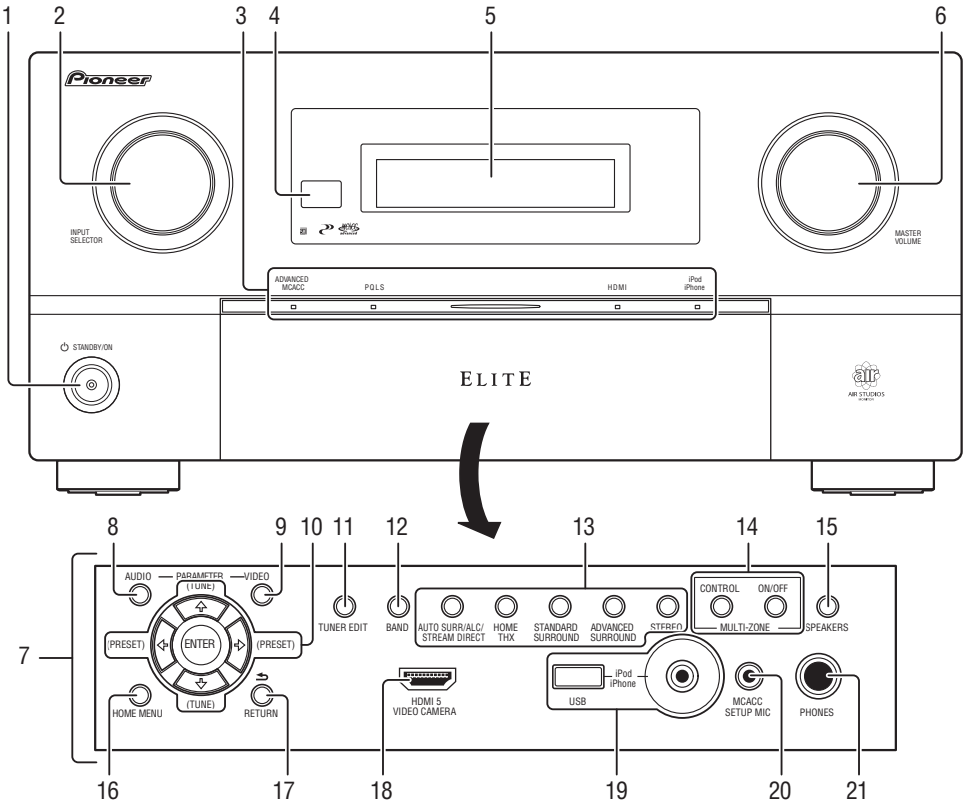
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2.2 PANEL FACILITIES

[1] Front panel



1 ⏻ STANDBY/ON
Switches the receiver between on and standby.

2 INPUT SELECTOR dial
Use to select an input function.

3 Indicators

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

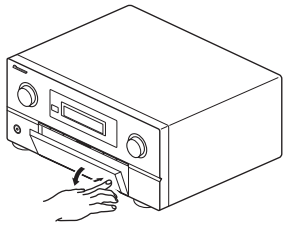
PQLS – Lights when the PQLS feature is active.
HDMI – Blinks when connecting an HDMI-equipped component; lights when the component is connected.
iPod/iPhone – Lights to indicate iPod/iPhone is connected.

4 Remote sensor
Receives the signals from the remote control.

5 Character display

6 MASTER VOLUME dial

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



8 AUDIO PARAMETER
Use to access the Audio options.

9 VIDEO PARAMETER
Use to access the Video options.

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

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

12 BAND
Switches between AM and FM radio bands.

13 Listening mode buttons

AUTO SURR /ALC /STREAM DIRECT – Switches between Auto Surround, Auto Level Control, Optimum Surround [1] mode and Stream Direct mode.

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

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

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

STEREO – Switches between stereo playback and Front Stage Surround Advance modes.
Sound Retriever Air(in ADAPTER PORT function only)

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

15 SPEAKERS
Use to change the speaker terminal.

16 HOME MENU
Press to access the Home Menu.

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

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

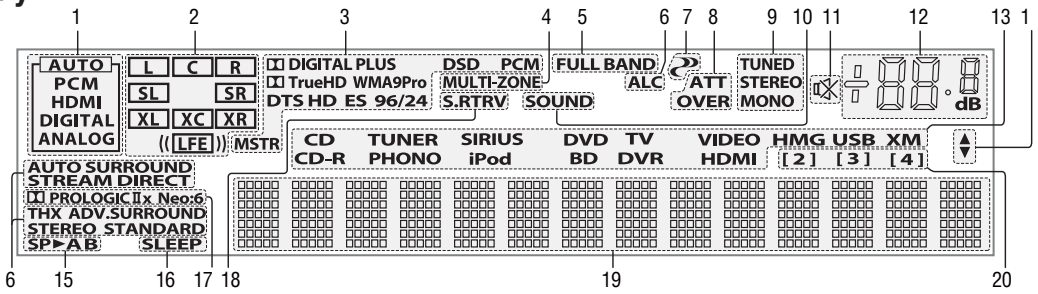
19 iPod/iPhone/USB terminals
Use to connect your Apple iPod as an audio and video source, or connect a USB device for audio and photo playback.

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

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

Note
1 Optimum Surround mode is only apply to the SC-37.

[2] Display



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

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

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

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

5 FULL BAND
SC-37 only: Lights when the Full Band Phase Control is switched on.

6 Listening mode indicators
AUTO SURROUND – Lights when the Auto Surround feature is switched on.
ALC – Lights when the ALC (Auto level control) mode is selected.
STREAM DIRECT – Lights when Direct/Pure Direct is selected.
ADV.SURROUND – Lights when one of the Advanced Surround modes has been selected.
STEREO – Lights when stereo listening is switched on.
STANDARD – Lights when one of the Standard Surround modes is switched on.
THX – Lights when one of the Home THX modes is selected.

7 (PHASE CONTROL)
Lights when the Phase Control or Full Band Phase Control[1] is switched on.

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

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

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

11
Lights when the sound is muted.

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

13 Input function indicators
Light to indicate the input function you have selected.
(HMG only lights for the SC-37.)

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

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

16 SLEEP
Lights when the receiver is in sleep mode.

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

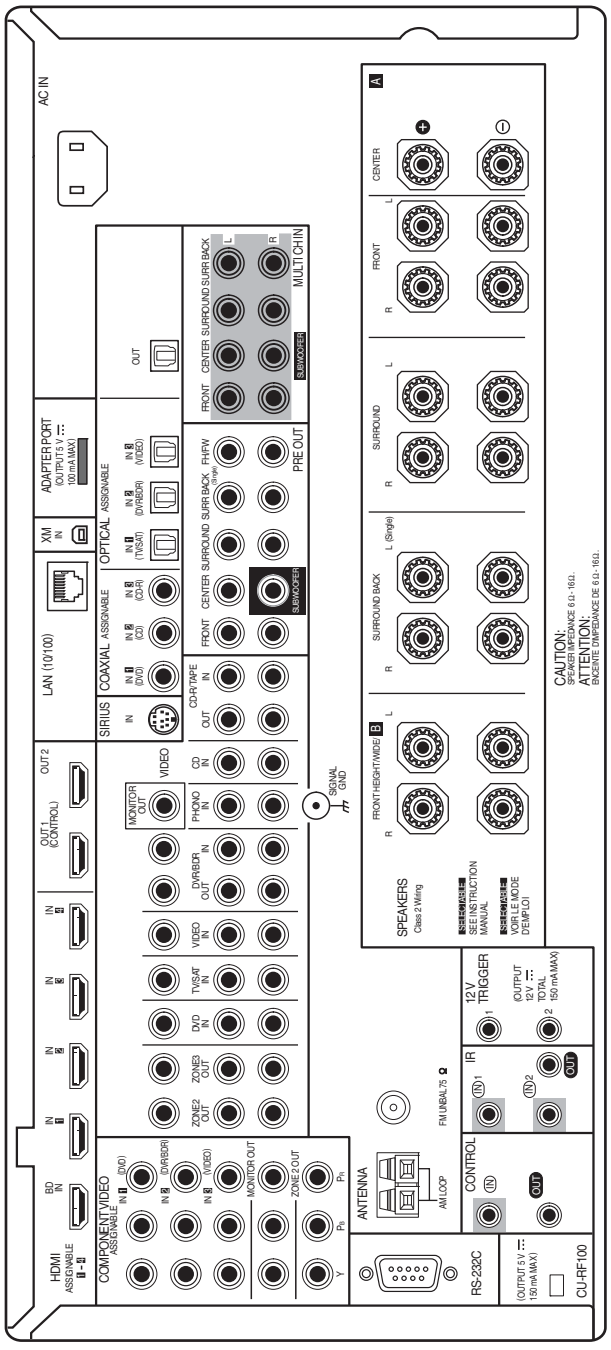
18 S.RTRV
Lights when the Sound Retriever function is active.

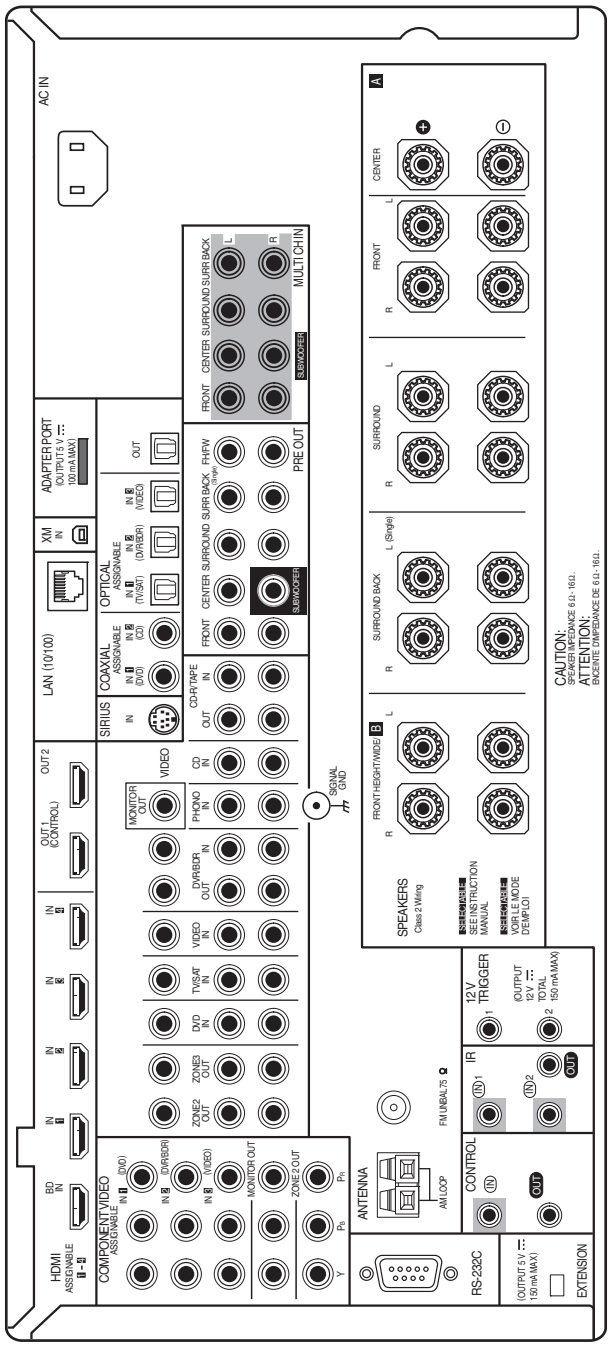
19 Character display
Displays various system information.

20 Remote control mode indicator
Lights to indicate thereceiver's remote control mode setting. (Not displayed when set to 1.)

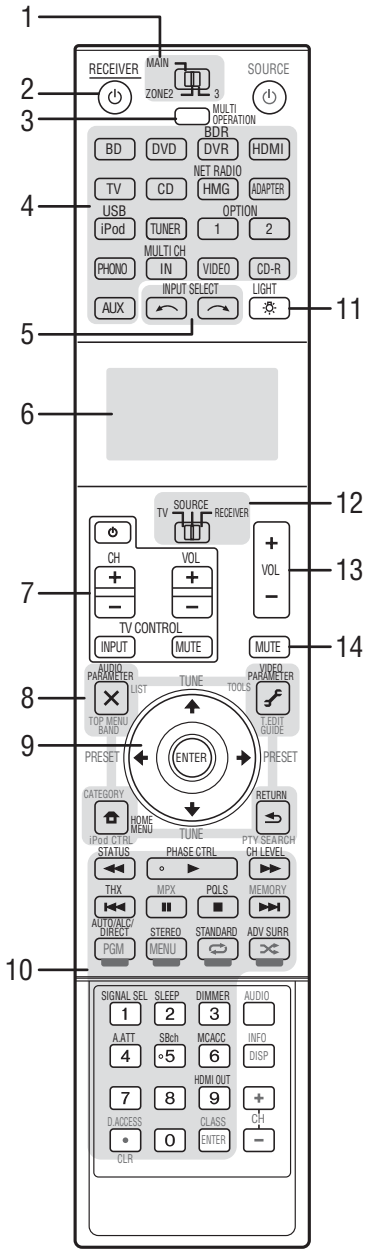
Note
1 Full Band Phase Control is only apply to the SC-37.

[3] Rear panel


SC-37
AC IN
LAN (10/100)
XM IN
ADAPTER PORT (OUTPUT 5 V ⎓ 100 mA MAX)
SIRIUS IN
COAXIAL ASSIGNABLE IN 1 (DVD) IN 2 (CD)
OPTICAL ASSIGNABLE IN 1 (TV/SAT) IN 2 (DVR/BDR)
OUT
IN 3 (VIDEO)
PRE OUT
FRONT CENTER SURROUND SURR BACK FH/FW (Single)
MULTI CH IN
SUBWOOFER
SURROUND BACK L (Single) R
SURROUND L R
FRONT L R
CENTER
A
B
FRONT HEIGHT/WIDE
SPEAKERS Class 2 Wiring
SEE INSTRUCTION MANUAL
VOIR LE MODE D'EMPLOI
CAUTION: SPEAKER IMPEDANCE 6 Ω - 16 Ω.
ATTENTION: ENCEINTE D'IMPEDANCE DE 6 Ω - 16 Ω.
SIGNAL GND
CD-R/TAPE IN OUT
CD IN
VIDEO
MONITOR OUT
PHONO IN
DVR/BDR IN OUT
VIDEO IN
TV/SAT IN
DVD IN
ZONE2 OUT
OUT (CONTROL)
OUT 2
HDMI ASSIGNABLE 1 2
BD IN
COMPONENT VIDEO ASSIGNABLE IN 1 (DVD) IN 2 (DVR/BDR) IN 3 (VIDEO)
MONITOR OUT
ZONE2 OUT Y Pb Pr
ANTENNA
FM UNBAL 75 Ω
AM LOOP
CONTROL IN OUT
IR IN 1 IN 2 OUT
12V TRIGGER 1 2
(OUTPUT 12 V ⎓ TOTAL 150 mA MAX)
RS-232C
(OUTPUT 5 V ⎓ 150 mA MAX)
CU-RF100


SC-35
AC IN
LAN (10/100)
XM IN
ADAPTER PORT (OUTPUT 5 V ⎓ 100 mA MAX)
SIRIUS IN
COAXIAL ASSIGNABLE IN 1 (DVD) IN 2 (CD)
OPTICAL ASSIGNABLE IN 1 (TV/SAT) IN 2 (DVR/BDR)
OUT
IN 3 (VIDEO)
PRE OUT
FRONT CENTER SURROUND SURR BACK FH/FW (Single)
MULTI CH IN
SUBWOOFER
SURROUND BACK L (Single) R
SURROUND L R
FRONT L R
CENTER
A
B
FRONT HEIGHT/WIDE
SPEAKERS Class 2 Wiring
SEE INSTRUCTION MANUAL
VOIR LE MODE D'EMPLOI
CAUTION: SPEAKER IMPEDANCE 6 Ω - 16 Ω.
ATTENTION: ENCEINTE D'IMPEDANCE DE 6 Ω - 16 Ω.
SIGNAL GND
CD-R/TAPE IN OUT
CD IN
VIDEO
MONITOR OUT
PHONO IN
DVR/BDR IN OUT
VIDEO IN
TV/SAT IN
DVD IN
ZONE2 OUT
OUT (CONTROL)
OUT 2
HDMI ASSIGNABLE 1 2
BD IN
COMPONENT VIDEO ASSIGNABLE IN 1 (DVD) IN 2 (DVR/BDR) IN 3 (VIDEO)
MONITOR OUT
ZONE2 OUT Y Pb Pr
ANTENNA
FM UNBAL 75 Ω
AM LOOP
CONTROL IN OUT
IR IN 1 IN 2 OUT
12V TRIGGER 1 2
(OUTPUT 12 V ⎓ TOTAL 150 mA MAX)
RS-232C
(OUTPUT 5 V ⎓ 150 mA MAX)
EXTENSION

[4] Remote control (in case of SC-37)



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

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

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

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

3 MULTI OPERATION
Use this button to perform multi operations.

4 Input function buttons
Press to select control of other components.
With these models, the Sirius input is selected with the **OPTION 1** button, the XM input with the **OPTION 2** button. Also, there is no **AUX** input on this receiver, so the **AUX** button cannot be used.

5 INPUT SELECT
Use to select the input function.

6 Character display
This display shows information when transmitting control signals. The remote screen's display differs when operating the receiver by sending infrared signals from the remote control and when operating it by RF two-way communications.

7 TV CONTROL buttons
These buttons are dedicated to control the TV assigned to the **TV** operation selector switch.

8 Receiver setting buttons
Set the remote control operation selector switch to **RECEIVER** first to access:

AUDIO PARAMETER – Use to access the Audio options.

VIDEO PARAMETER – Use to access the Video options.

HOME MENU – Use to access the Home Menu.

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

9 ↑/↓/←/→/ENTER
Use the arrow buttons when setting up your surround sound system and the Audio or Video options.

10 Receiver Control buttons

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

STATUS – Press to check selected receiver settings.

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

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

THX – Press to select a Home THX listening mode.

PQLS – Press to select the PQLS setting.

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

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

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

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

SIGNAL SEL – Use to select an input signal.

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

DIMMER – Dims or brightens the display.

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

SBch – With this receiver, **SBch** cannot be used.

MCACC – Press to switch between MCACC presets

HDMI OUT – Switch the HDMI output terminal.

11 ☼ LIGHT

Press to turn on/off the illumination for the buttons[1].

12 Remote control operation selector switch

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

When this switch is set to **RECEIVER** , the receiver can be controlled (used to select the white commands). Also use this switch to set up surround sound.

13 VOL +/–

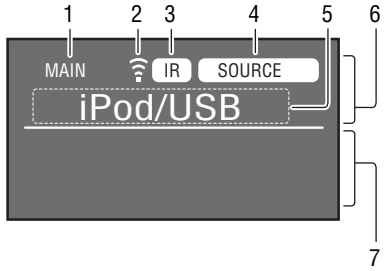
Use to set the listening volume.

14 MUTE

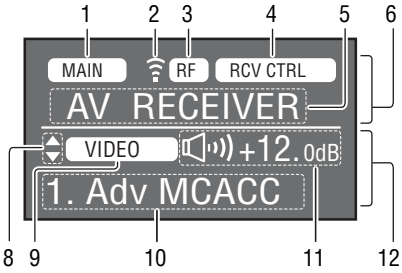
Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

Remote control display [2]

Remote control display for infrared signal transmission (default)



Remote control display for RF two-way communications [3]



1 Remote control operating zone indicator

This indicates which zone the remote control is currently set to operate. The display indicates the setting of the MULTI-ZONE operation selector switch.

Only when RF two-way communications:

The box display here indicates the communication status between this remote control unit and the receiver.

MAIN (White box with black letters): Two-way communications are established and the receiver's power is on.

Note

1 Press and hold in the **LIGHT** button for 5 seconds to change the illumination mode 1 or 2. When set to **LIGHT MODE 2** (default), the illumination only lights when the remote control **LIGHT** button is pressed. When switched to **LIGHT MODE 1** , the illumination lights whenever buttons are operated. Setting **LIGHT MODE 1** will shorten the service life of the batteries.

2 The display lights when a remote control operation is performed, then turns off after 20 seconds if no other operation is performed. When in the Remote Setup mode, the setup is canceled and the display turns off if no operation is performed for 1 minute.

3 • This is displayed when an RF adapter is connected to the receiver and paired with the remote control.
• Depending on the communications environment, two-way communications may not work well and the remote control display may not reflect the receiver's status.

MAIN (Gray box with black letters): Two-way communications are established and the receiver's power is off.

MAIN (White letters only): Two-way communications are not working well. In this case, the area indicating the receiver's status (**12**) is not displayed.

2 Remote control code sending indicator
This appears when signals are sent from the remote control.

3 Remote control code sending mode indicator
This indicates whether remote control codes are being sent by infrared (**IR**) signal or **RF** communications.

4 Remote control operation indicator
This indicates which operation mode the remote control is currently set to. The display indicates the setting of the remote control operation selector switch.

5 Input function and sending code indicator
This indicates what input function can currently be operated with the remote control. Also, when a button is pressed and its operation code is sent, the name of that code is displayed.

6 Area indicating the remote control's status

7 Nothing displayed
Nothing is displayed here when the remote control code sending mode is set to **IR** .

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

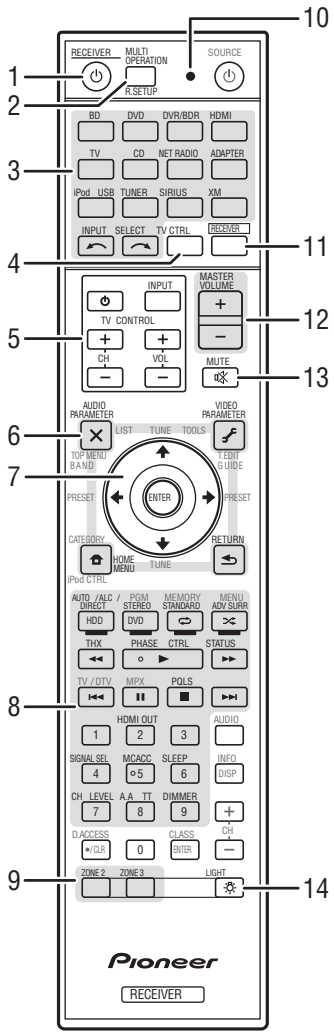
9 Receiver input indicator
This indicates the input function currently selected for the receiver's zone.

10 Receiver display
The same information as on the receiver's display is displayed here.

11 Master volume display
This indicates the volume of the receiver's main zone using, as an icon and in decibels (dB). When the sound is muted, the icon is displayed.

12 Area indicating the receiver's status

[5] Remote control (in case of SC-35/SC-1525-K)



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

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

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

2 MULTI OPERATION – Use to perform multi operations.

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

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

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

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

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

6 Receiver setting buttons
Press [RECEIVER] first to access:

AUDIO PARAMETER – Use to access the Audio options.

VIDEO PARAMETER – Use to access the Video options.

HOME MENU – Use to access the Home Menu

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

7 ⬆/⬇/⬅/➡/ENTER
Use the arrow buttons when setting up your surround sound system and the Audio or Video options.

8 Receiver Control buttons
Press [RECEIVER] first to access:

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

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

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

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

THX – Press to select a Home THX listening mode.

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

STATUS – Press to check selected receiver settings.

PQLS – Press to select the PQLS setting.

HDMI OUT – Switch the HDMI output terminal.

SIGNAL SEL – Use to select an input signal.

MCACC – Press to switch between MCACC presets.

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

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

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

DIMMER – Dims or brightens the display.

9 MULTI-ZONE select buttons
Switch to perform operations in ZONE 2 and ZONE 3.

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

11 [RECEIVER]
Switches the remote to control the receiver (used to select the white commands).

Switch to perform operations in the main zone.

Also use this button to set up surround sound.

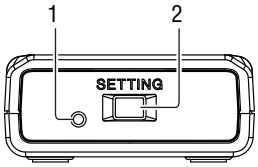
12 MASTER VOLUME +/–
Use to set the listening volume.

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

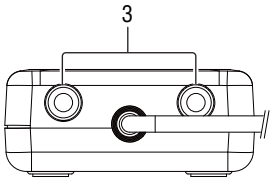
14 ☼
Press to turn on/off the illumination for the buttons. The way the buttons light can be selected from four modes.

[6] RF Adapter (in case of SC-37)

Front



Rear



1 LED

2 SETTING
Use to pairing the RF adapter and remote control.

3 IR blaster terminals
Connect the IR blaster cable.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing

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

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

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

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

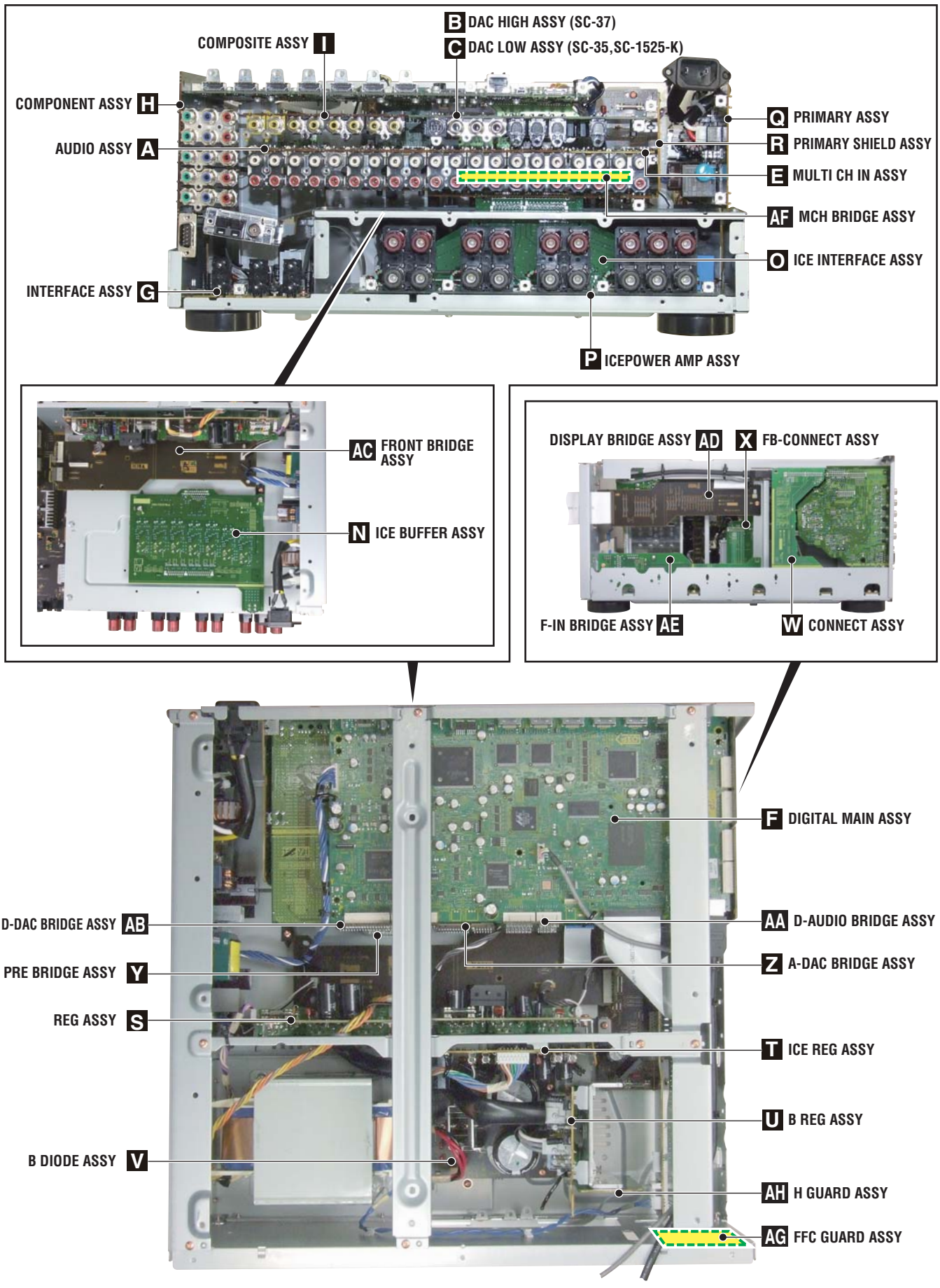
Cleaning

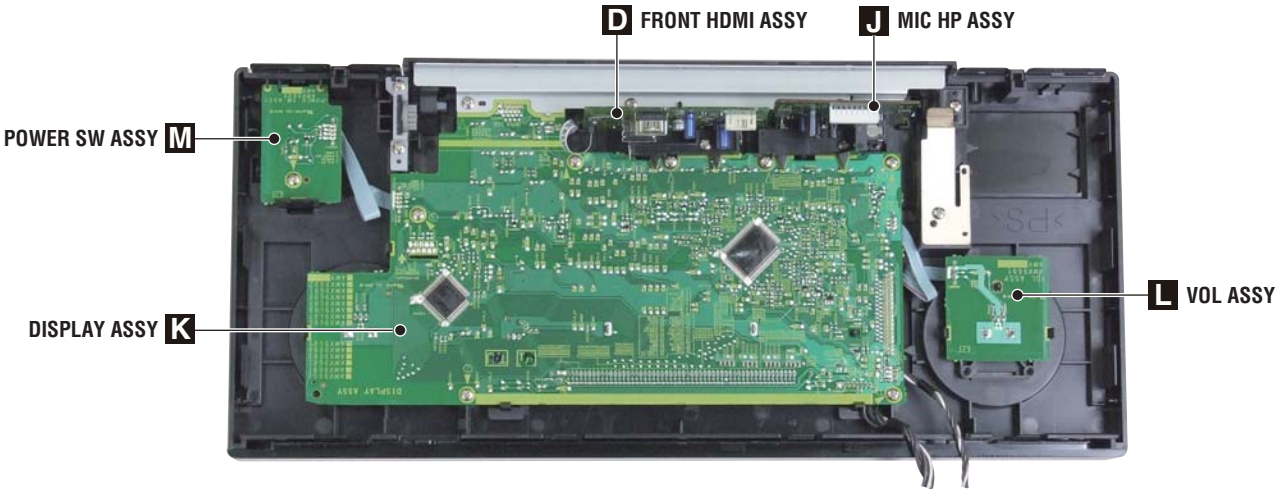


Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools.

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

3.2 PCB LOCATIONS





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

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	ICEPOWER AMP ASSY (SC-37)	AWH7024
	1	ICEPOWER AMP ASSY (SC-35,SC-1525-K)	AWH7025
NSP	1	ICE INT F-HDMI ASSY	AWM8189
	2	ICE INTERFACE ASSY	AWX9596
	2	FRONT HDMI ASSY	AWX9597
NSP	1	MIC HP ICE ASSY	AWM8190
	2	ICE BUFFER ASSY	AWX9598
	2	MIC HP ASSY	AWX9599
	2	FFC CUARD ASSY	AWX9641
NSP	1	PRIM DISPLAY ASSY (SC-37)	AWM8191
	2	DISPLAY ASSY	AWX9600
	2	VOL ASSY	AWX9601
	2	POWER SW ASSY	AWX9602
	2	PRIMARY SHIELD ASSY	AWX9603
	2	PRIMARY ASSY	AWX9604
NSP	1	PRIM DISPLAY ASSY (SC-35)	AWM8209
	2	DISPLAY ASSY	AWX9686
	2	VOL ASSY	AWX9601
	2	POWER SW ASSY	AWX9602
	2	PRIMARY SHIELD ASSY	AWX9603
	2	PRIMARY ASSY	AWX9604
NSP	1	PRIM DISPLAY ASSY (SC-1525-K)	AWM8210
	2	DISPLAY ASSY	AWX9687
	2	VOL ASSY	AWX9601
	2	POWER SW ASSY	AWX9602
	2	PRIMARY SHIELD ASSY	AWX9603
	2	PRIMARY ASSY	AWX9604
NSP	1	INTERFACE REG ASSY	AWR7085
	2	INTERFACE ASSY	AWX9605
	2	ICE REG ASSY	AWX9606
	2	B REG ASSY	AWX9607
	2	B DIODE ASSY	AWX9608
	2	PRE BRIDGE ASSY	AWX9611
	2	H GUARD ASSY	AWX9610
NSP	1	REG BRIDGE ASSY	AWR7086
	2	REG ASSY	AWX9612
	2	FRONT BRIDGE ASSY	AWX9613
	2	DISPLAY BRIDGE ASSY	AWX9614
	2	F-IN BRIDGE ASSY	AWX9615
	2	MULTI CH IN ASSY	AWX9616
	2	MCH BRIDGE ASSY	AWX9617
	2	FB-CONNECT ASSY	AWX9618
	2	CONNECT ASSY	AWX9619
NSP	1	AUDIO COMPOSITE ASSY	AWR7090
	2	D-AUDIO BRIDGE ASSY	AWX9569
	2	D-DAC BRIDGE ASSY	AWX9570
	2	A-DAC BRIDGE ASSY	AWX9571
	2	AUDIO ASSY	AWX9647
	2	COMPOSITE ASSY	AWX9652
	1	DIGITAL MAIN ASSY (SC-37)	AWX9620
	1	DIGITAL MAIN ASSY (SC-35,SC-1525-K)	AWX9621
	1	DAC HIGH ASSY (SC-37)	AWX9622
	1	DAC LOW ASSY (SC-35,SC-1525-K)	AWX9658
	1	COMPONENT ASSY	AWX9654
	1	FM/AM TUNER UNIT	AXX7267

3.3 JIGS LIST

[1] Jigs List

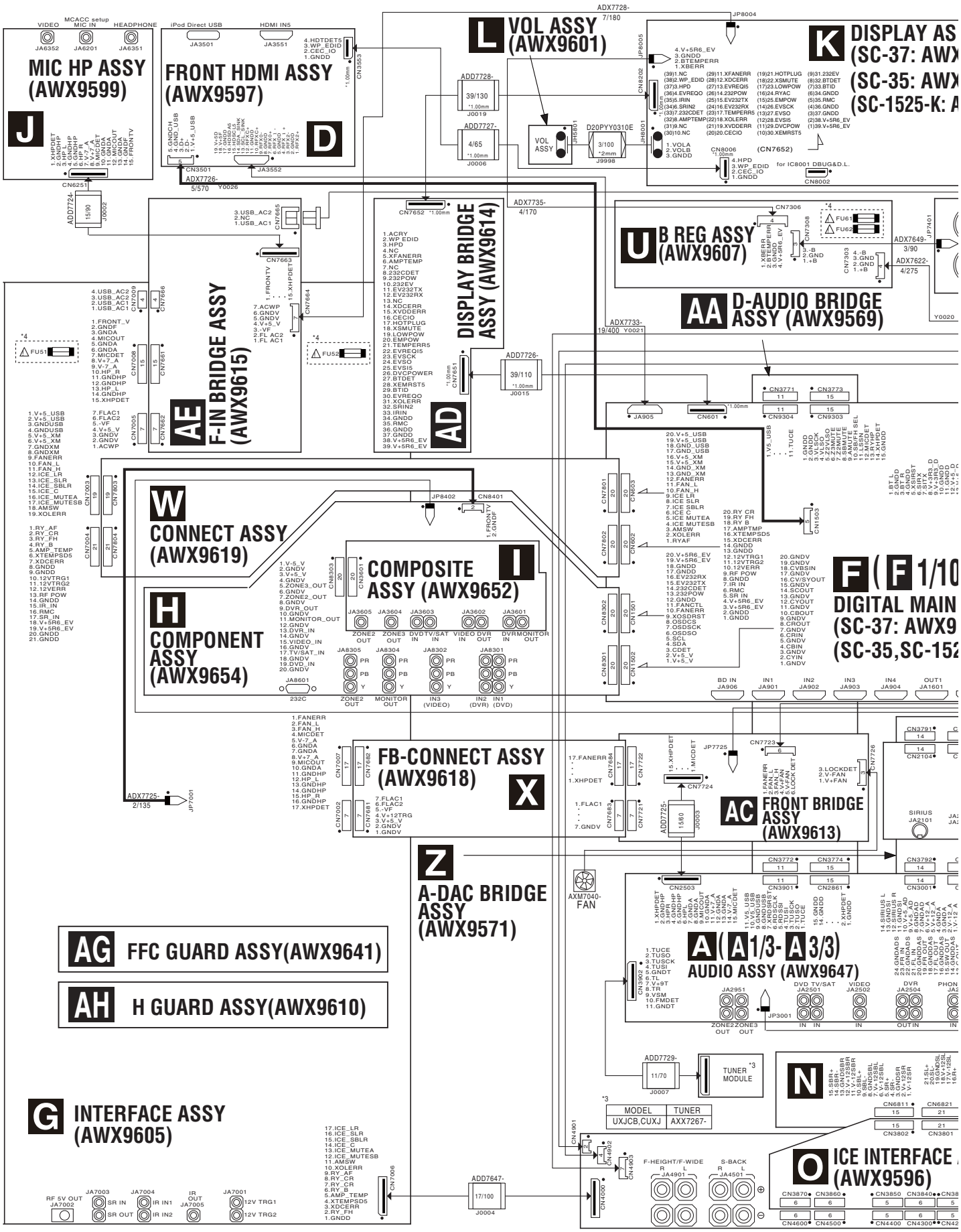
Name	Jig No.	Remarks
30P board to board extension jig cable x 2	GGD1682	Diagnosis
24P + 14P board to board extension jig cable	GGD1683	Diagnosis
21P + 15P board to board extension jig cable	GGD1679	Diagnosis
20P + 20P board to board extension jig cable	GGD1677	Diagnosis
19P board to board extension jig cable	GGD1577	Diagnosis
39P FFC	GGD1679	Diagnosis
15P FFC	GGD1680	Diagnosis
5P PH Housing Assy	GGD1594	Diagnosis

[2] Lubricants and Glues List

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

4. BLOCK DIAGRAM

4.1 OVERALL WIRING DIAGRAM



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

• NOTE FOR FUSE REPLACEMENT

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

*1 ⚠

MODEL		MAIN TRANS	AC CORD
SC-37 SC-35	UXJCB	ATS7430-	ADG7111-
SC-1525-K	CUXJ	ATS7430-	ADG7111-

*OPTION

MODEL		MICROPHONE	REMO-COM	RF RCV BOX	iPod CABLE	IR BLUSTER CABLE	BLUETOOTH AD
SC-37	UXJCB	APM7009-	AXD7580-	AXX7272-	ADE7135-	ADF7007-	-
SC-35 SC-1525-K	UXJCB CUXJ	APM7009-	AXD7591-	-	ADE7135-	-	-

*4 ⚠

MODEL		FU1	FU2	FU4	FU11,FU12	FU13,FU14	FU15	FU21,FU22	FU31,FU32	FU51	FU52	FU61,FU62
SC-37 SC-35 SC-1525-K	UXJCB CUXJ	VEK1029- (10A/125V)	-	REK1139- (T2A H/250V)	REK1143- (1.25A/125V)	REK1142- (1A/125V)	REK1143- (1.25A/125V)	REK1143- (1.25A/125V)	REK1143- (1.25A/125V)	REK1144- (1.6A/125V)	REK1144- (1.6A/125V)	Main: REK1154- (10A/125V)

DISPLAY ASSY (SC-37: AWX9600) (SC-35: AWX9686) (SC-1525-K: AWX9687)

M POWER SW ASSY (AWX9602)

V B DIODE ASSY (AWX9608)

IDGE 0569)

AB D-DAC BRIDGE ASSY (AWX9570)

T ICE REG ASSY (AWX9606)

F (F 1/10-F 10/10) IGITAL MAIN ASSY SC-37: AWX9620) SC-35,SC-1525-K: AWX9621)

S REG ASSY (AWX9612)

B (B 1/2-B 2/2) DAC HIGH ASSY (SC-37: AWX9622)

C (C 1/2-C 2/2) DAC LOW ASSY (SC-35,SC-1525-K: AWX9658)

Q PRIMARY ASSY (AWX9604)

Y PRE BRIDGE ASSY (AWX9611)

MULTI CH IN ASSY(AWX9616)

E

R PRIMARY SHIELD ASSY (AWX9603)

ICE BUFFER ASSY (AWX9598)

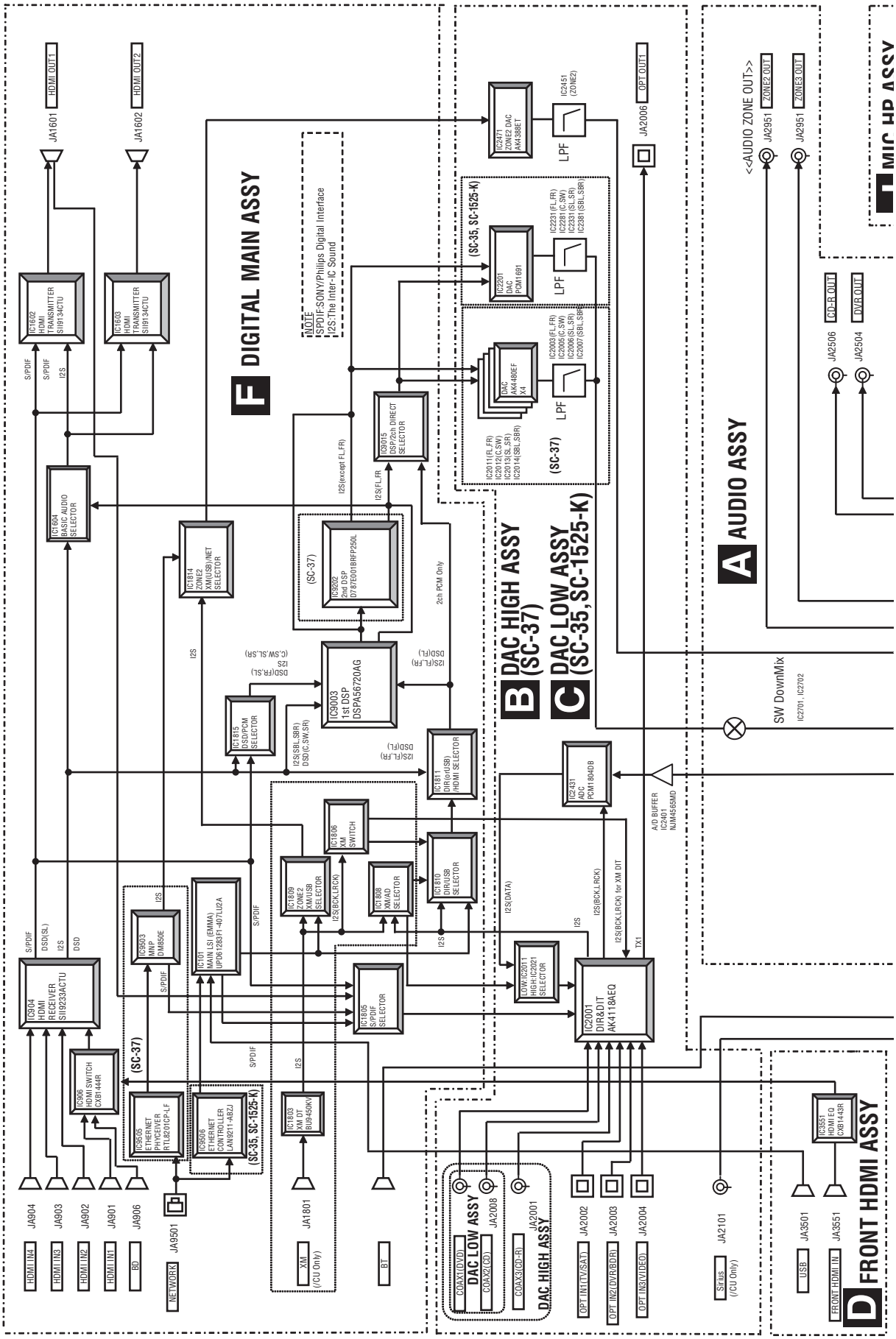
AF MCH BRIDGE ASSY (AWX9617)

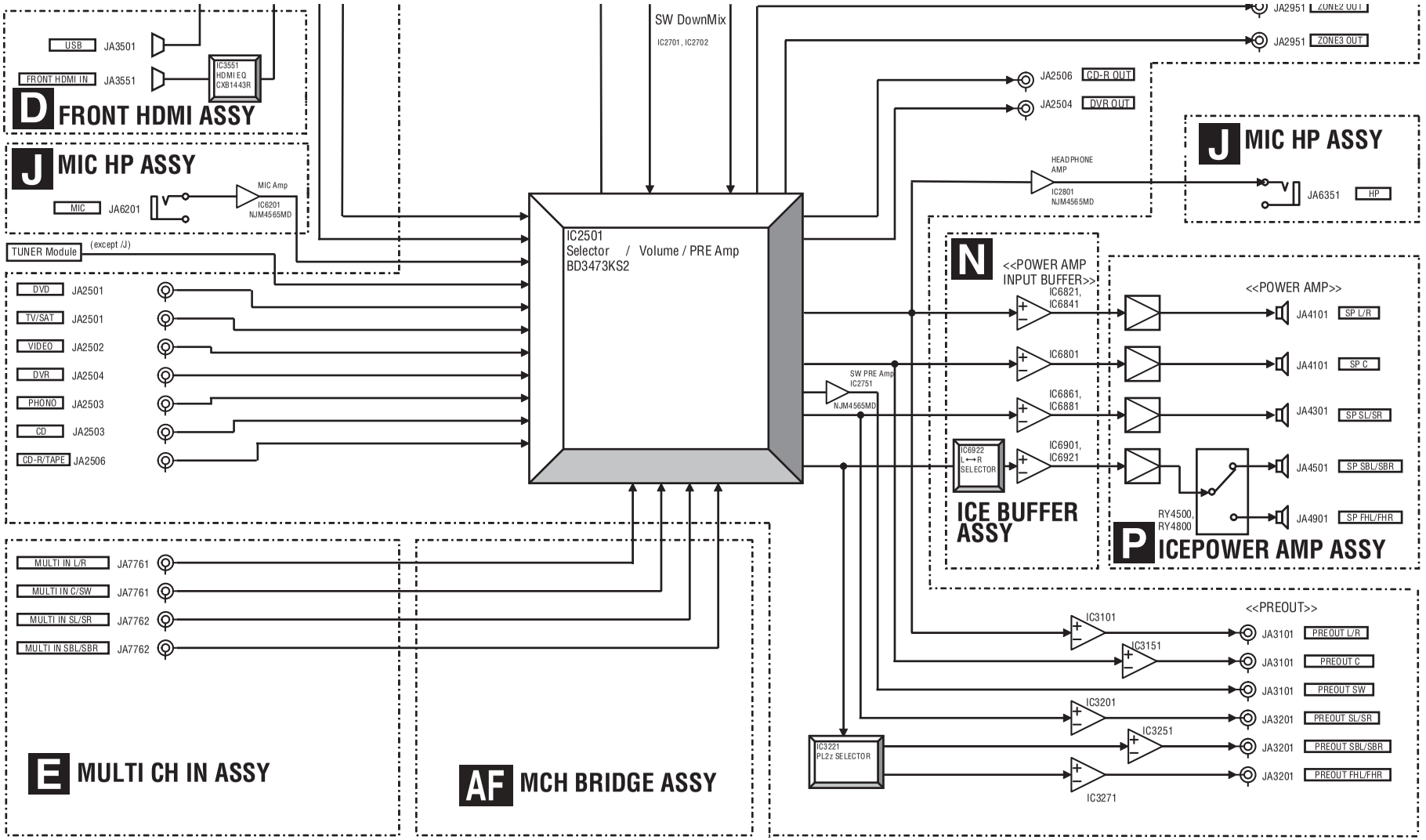
CE INTERFACE ASSY AWX9596)

P (P 1/5-P 5/5) ICEPOWER AMP ASSY (SC-37: AWH7024) (SC-35,SC-1525-K: AWH7025)

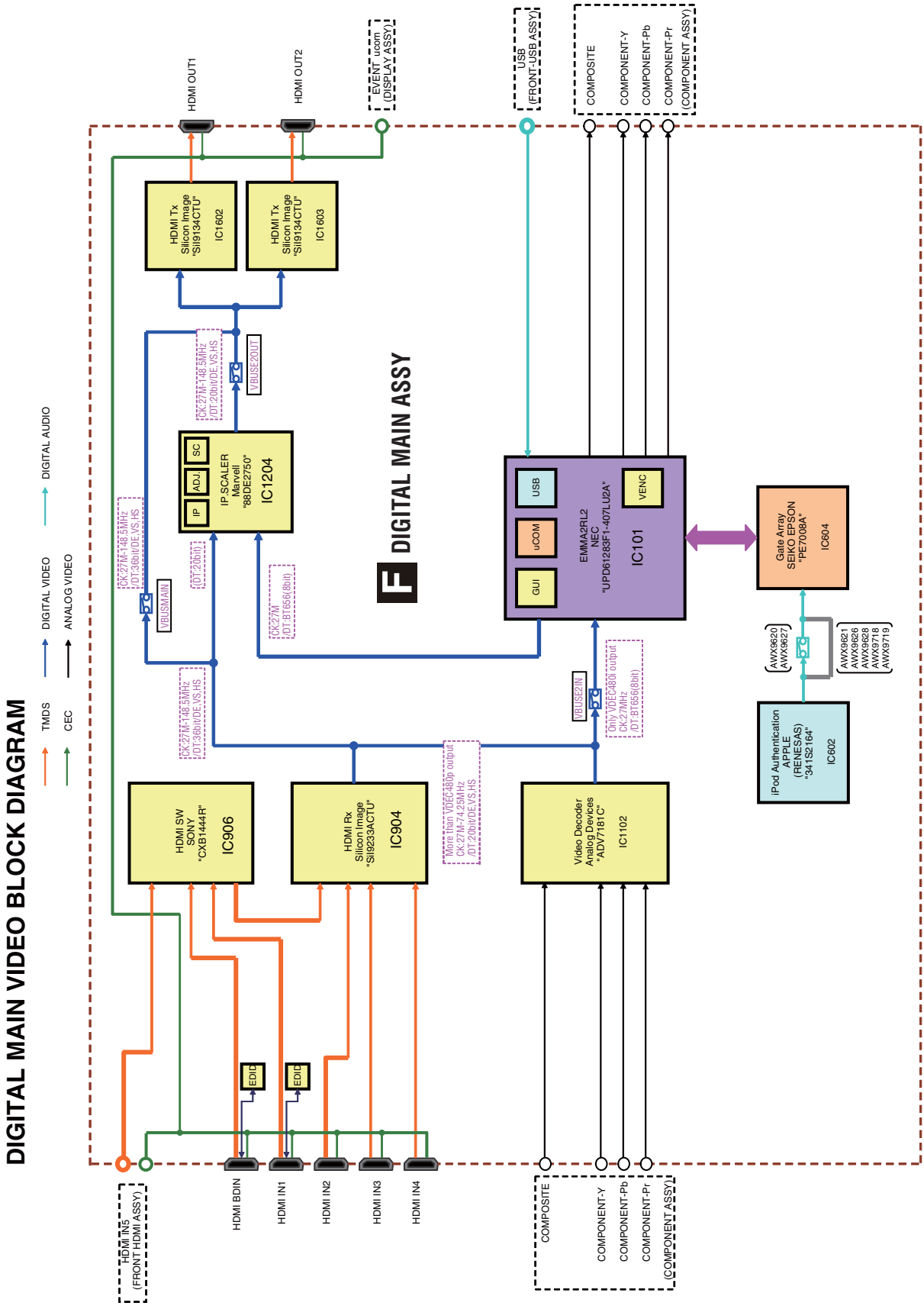
SHIELD CABLE, PIN JACK, FFC, HDMI CONNECTOR, 2.0mm CABLE HOLDER, JUMPER CONNECTOR, 2.0mm FLAT CABLE, BOARD IN, BOARD TO BOARD, FFC CONNECTOR, ANOTHER CONNECTOR

4.2 BLOCK DIAGRAM FOR AUDIO BLOCK



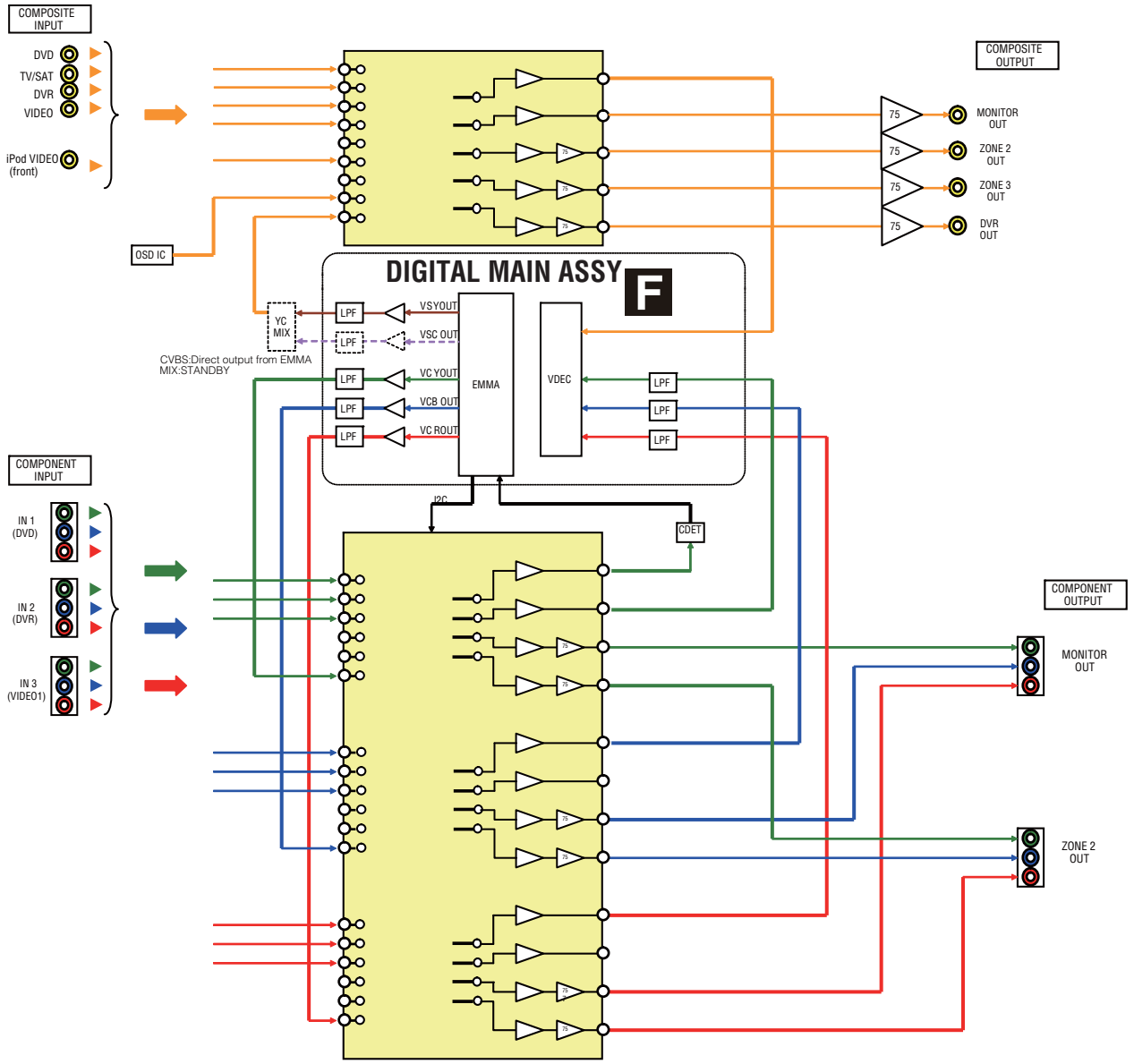

USB
JA3501
FRONT HDMI IN
JA3551
IC3551
HDMI EQ
CXB1443R
D FRONT HDMI ASSY
J MIC HP ASSY
MIC
JA6201
MIC Amp
IC6201
NJM4565MD
TUNER Module
(except /J)
DVD JA2501
TV/SAT JA2501
VIDEO JA2502
DVR JA2504
PHONO JA2503
CD JA2503
CD-R/TAPE JA2506
SW DownMix
IC2701, IC2702
IC2501
Selector / Volume / PRE Amp
BD3473KS2
JA2951 ZONE2 OUT
JA2951 ZONE3 OUT
JA2506 CD-R OUT
JA2504 DVR OUT
HEADPHONE AMP
IC2801
NJM4565MD
J MIC HP ASSY
JA6351 HP
N
<<POWER AMP INPUT BUFFER>>
IC6821, IC6841
IC6801
IC6861, IC6881
IC6901, IC6921
SW PRE Amp
IC2751
NJM4565MD
IC6922
L⟷R
SELECTOR
ICE BUFFER ASSY
<<POWER AMP>>
JA4101 SP L/R
JA4101 SP C
JA4301 SP SL/SR
JA4501 SP SBL/SBR
JA4901 SP FHL/FHR
RY4500, RY4800
P ICEPOWER AMP ASSY
MULTI IN L/R JA7761
MULTI IN C/SW JA7761
MULTI IN SL/SR JA7762
MULTI IN SBL/SBR JA7762
E MULTI CH IN ASSY
AF MCH BRIDGE ASSY
IC3221
PL2z SELECTOR
<<PREOUT>>
IC3101
IC3151
IC3201
IC3251
IC3271
JA3101 PREOUT L/R
JA3101 PREOUT C
JA3101 PREOUT SW
JA3201 PREOUT SL/SR
JA3201 PREOUT SBL/SBR
JA3201 PREOUT FHL/FHR

4.3 BLOCK DIAGRAM FOR DIGITAL MAIN VIDEO BLOCK



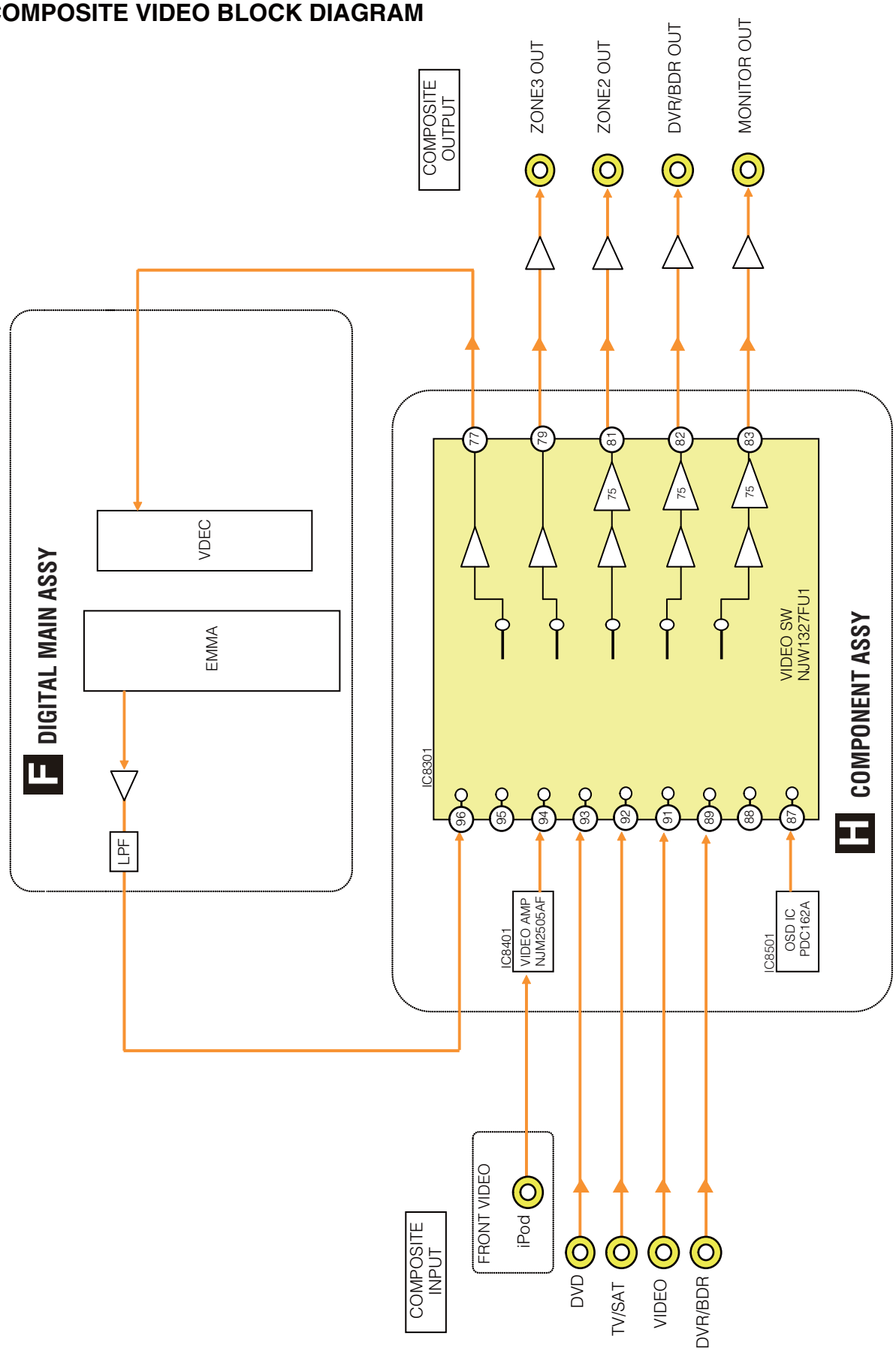
4.4 BLOCK DIAGRAM FOR VIDEO BLOCK

VIDEO BLOCK DIAGRAM



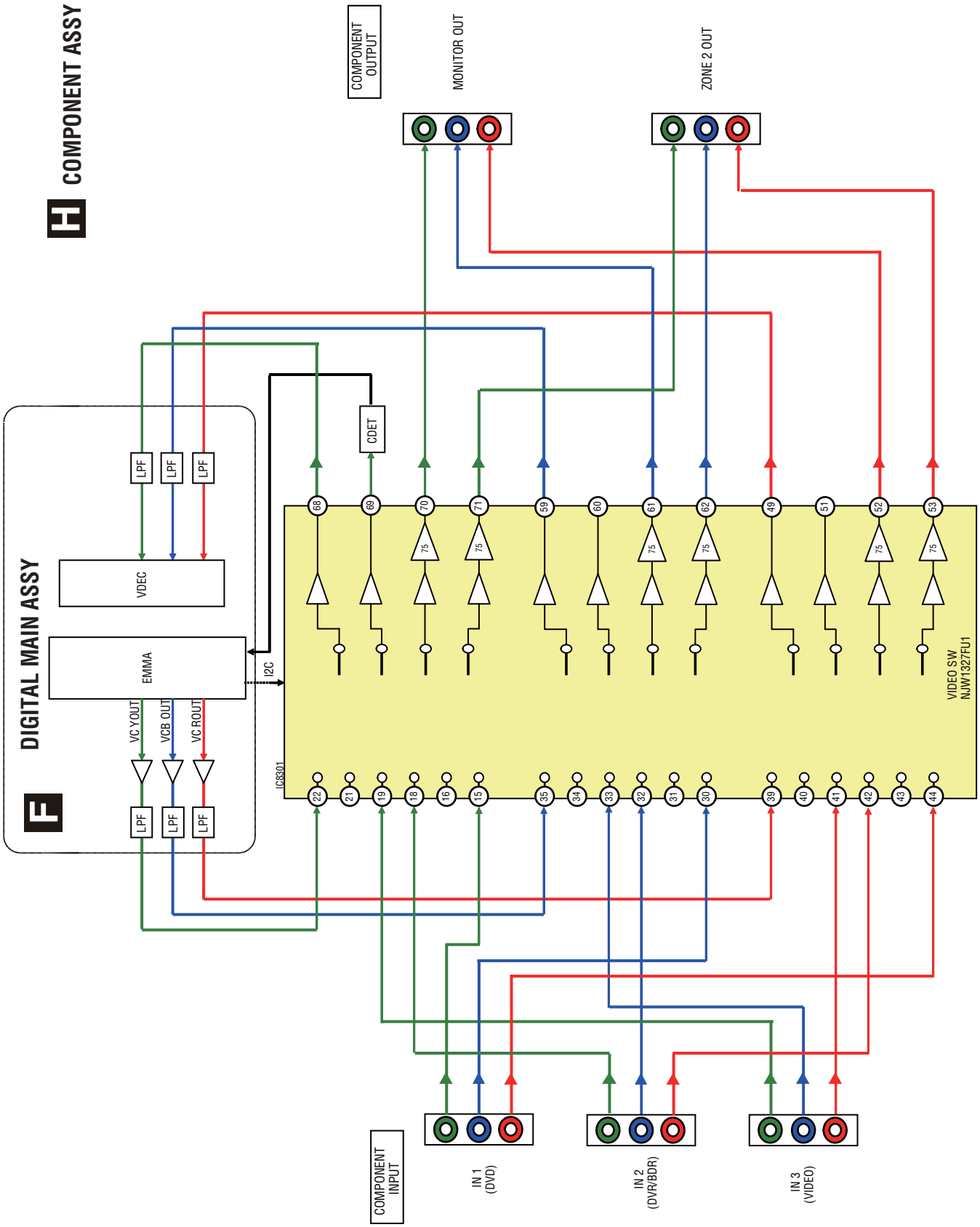
4.5 BLOCK DIAGRAM FOR COMPOSITE VIDEO BLOCK

COMPOSITE VIDEO BLOCK DIAGRAM

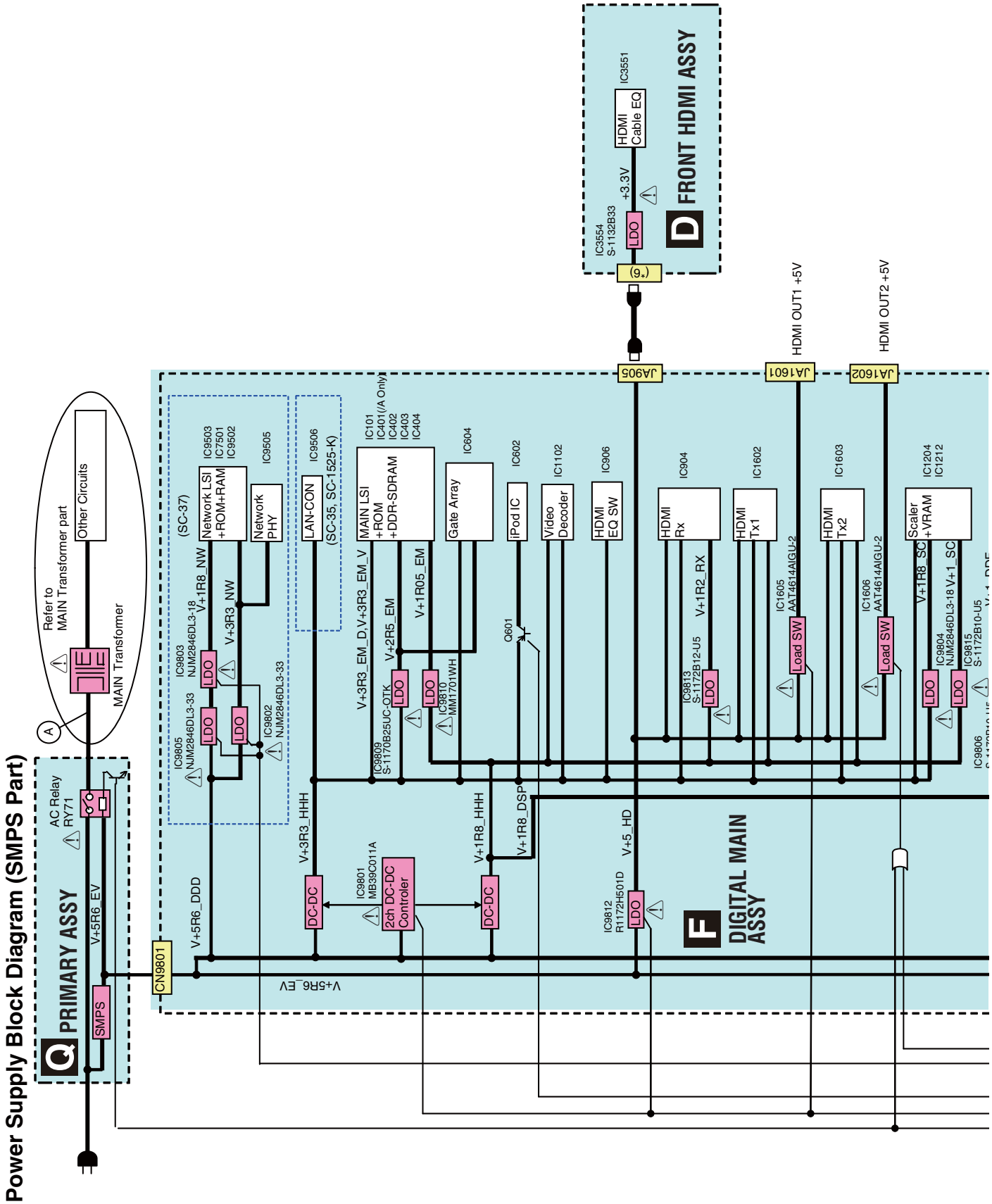


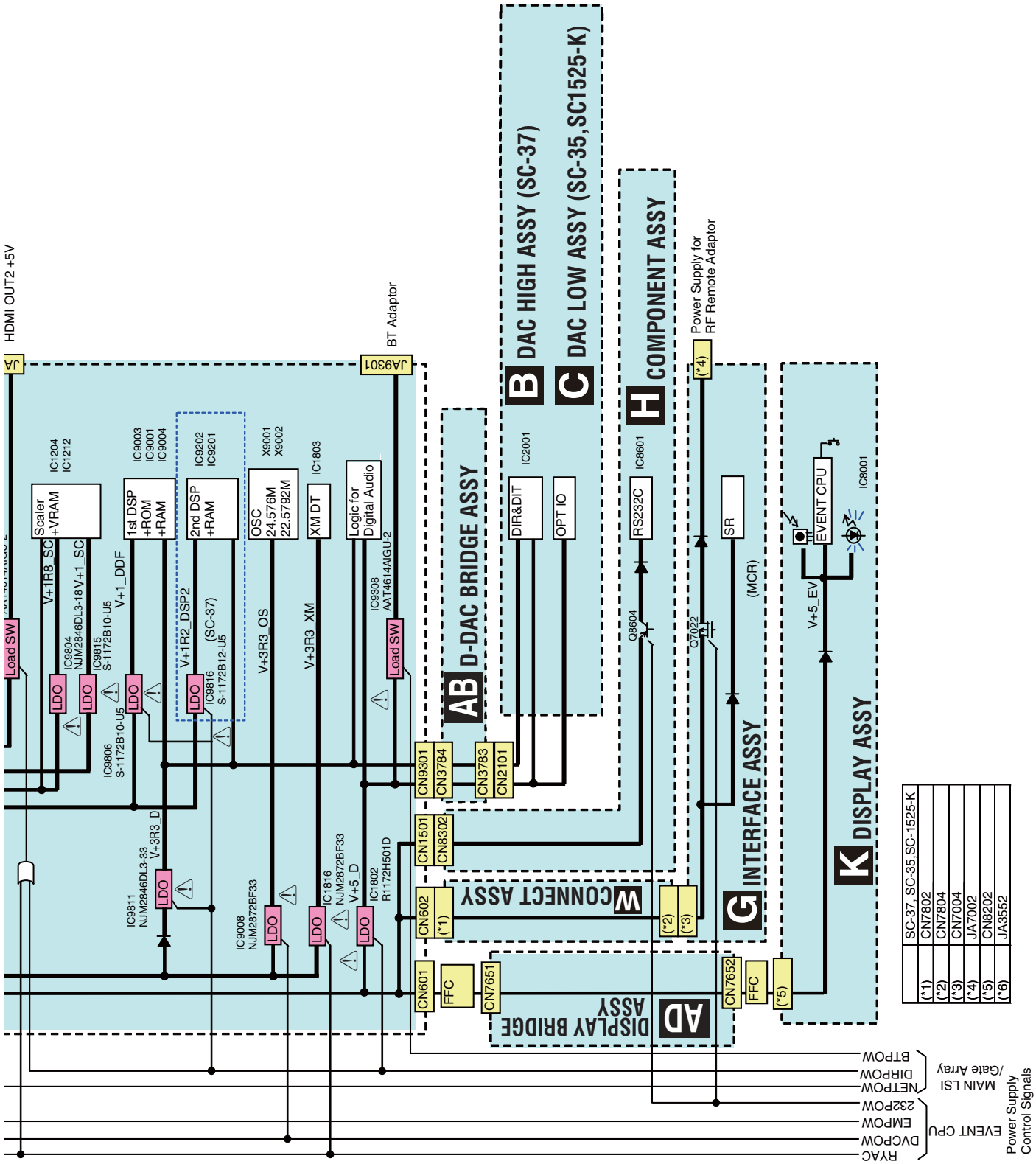
4.6 BLOCK DIAGRAM FOR COMPONENT VIDEO BLOCK

COMPONENT VIDEO BLOCK DIAGRAM

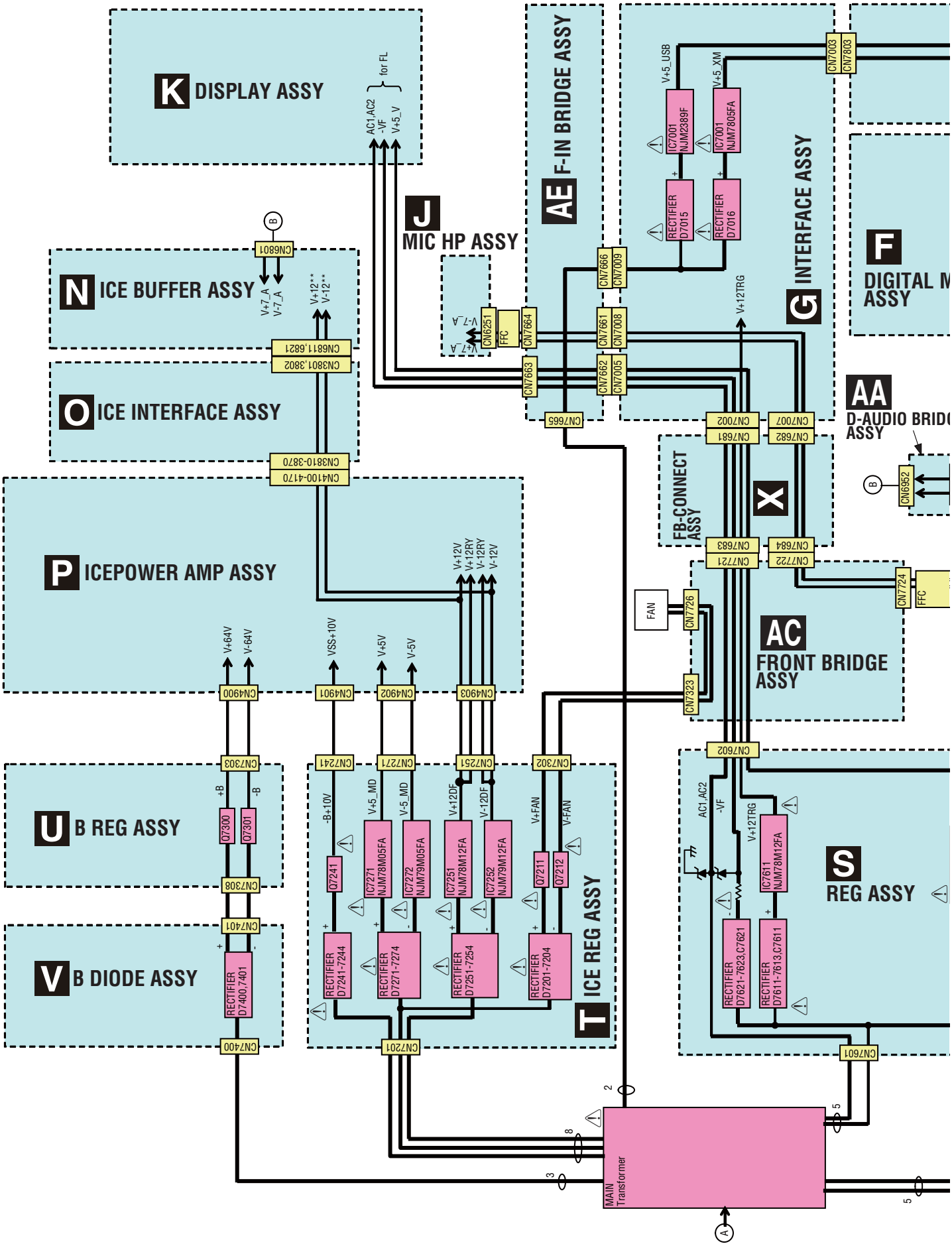


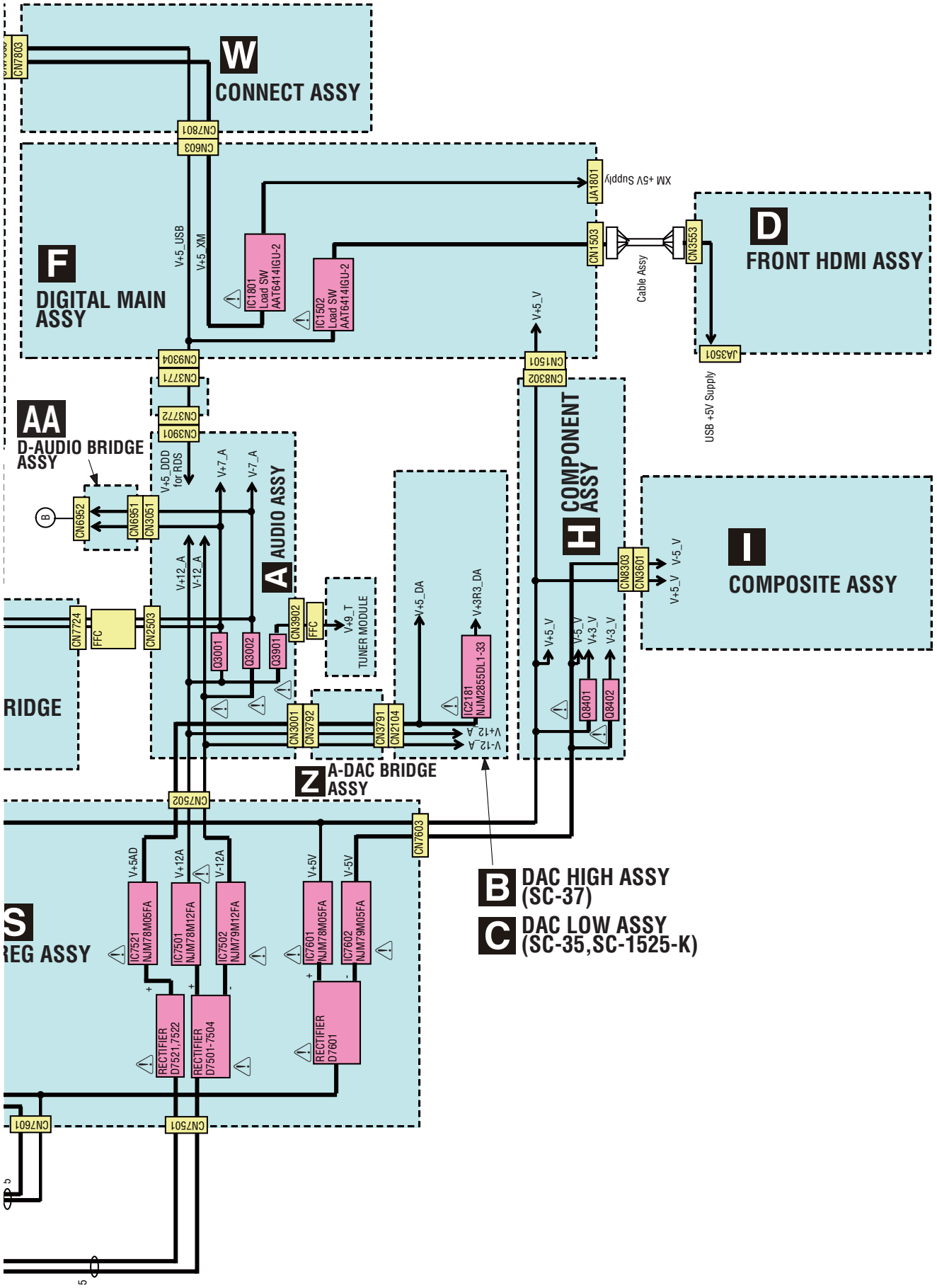
4.7 BLOCK DIAGRAM FOR POWER BLOCK(1)




HDMI OUT2 +5V
BT Adaptor
JA9301
Load SW
Scaler +VRAM
IC1204 IC1212
V+1R8_SC
V+1_SC
IC9804 NJM2846DL3-18
IC9815 S-1172B10-U5
V+1_DDF
IC9806 S-1172B10-U5
1st DSP +ROM +RAM
IC9003 IC9001 IC9004
2nd DSP +RAM
IC9202 IC9201
V+1R2_DSP2
IC9816 S-1172B12-U5
(SC-37)
OSC 24.576M 22.5792M
X9001 X9002
V+3R3_OS
XM DT
IC1803
V+3R3_XM
Logic for Digital Audio
IC9308 AAT4614AIGU-2
V+3R3_D
IC9811 NJM2846DL3-33
IC9008 NJM2872BF33
IC1816 NJM2872BF33
V+5_D
IC1802 R1172H501D
LDO
AB D-DAC BRIDGE ASSY
B DAC HIGH ASSY (SC-37)
C DAC LOW ASSY (SC-35,SC1525-K)
DIR&DIT
IC2001
OPT IO
H COMPONENT ASSY
RS232C
IC8601
Q8604
Q7022
Power Supply for RF Remote Adaptor
(*4)
SR
(MCR)
G INTERFACE ASSY
EVENT CPU
IC8001
V+5_EV
K DISPLAY ASSY
CN9301
CN3784
CN3783
CN2101
CN1501
CN8302
CN602
(*1)
W CONNECT ASSY
(*2)
(*3)
CN601
FFC
CN7651
AD DISPLAY BRIDGE ASSY
CN7652
FFC
(*5)
SC-37, SC-35,SC-1525-K
(*1) CN7802
(*2) CN7804
(*3) CN7004
(*4) JA7002
(*5) CN8202
(*6) JA3552
BTPOW
DIRPOW
NETPOW
MAIN LSI /Gate Array
232POW
EMPOW
DVCPOW
RYAC
EVENT CPU
Power Supply Control Signals

4.8 BLOCK DIAGRAM FOR POWER BLOCK(2)



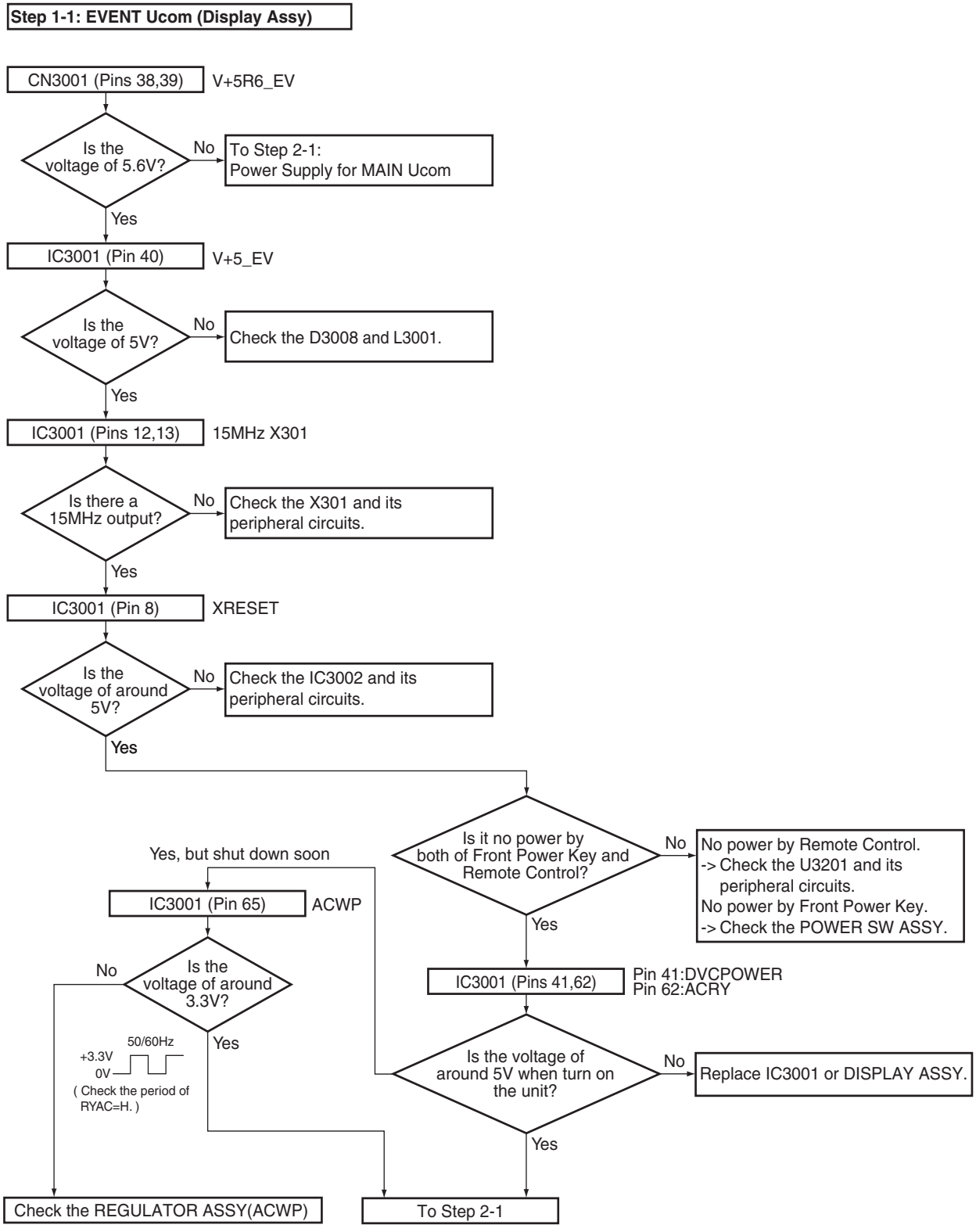

W
CONNECT ASSY
CN7803
CN7801
CN603
F
DIGITAL MAIN ASSY
V+5_USB
V+5_XM
IC1801 Load SW AAT6414IGU-2
IC1502 Load SW AAT6414IGU-2
JA1801
XM +5V Supply
CN1503
Cable Assy
CN3553
D
FRONT HDMI ASSY
JA3501
USB +5V Supply
CN1501
CN8302
V+5_V
H COMPONENT ASSY
CN8303
CN3601
V+5_V
V-5_V
I
COMPOSITE ASSY
CN9304
CN3771
CN3772
CN3901
AA
D-AUDIO BRIDGE ASSY
V+5_DDD for RDS
V+7_A
V-7_A
CN6962
CN6951
CN3051
V+12_A
V-12_A
A AUDIO ASSY
CN7724
FFC
CN2503
Q3001
Q3002
Q3901
CN3902
FFC
V+9_T
TUNER MODULE
V+5_DA
V+3R3_DA
IC2181 NJM2855DL1-33
V+5_V
V-5_V
V+3_V
V-3_V
Q8401
Q8402
CN3001
CN3792
CN3791
CN2104
V+12_A
V-12_A
Z A-DAC BRIDGE ASSY
CN7502
CN7603
V+5AD
V+12A
V-12A
V+5V
V-5V
IC7521 NJM78M05FA
IC7501 NJM78M12FA
IC7502 NJM79M12FA
IC7601 NJM78M05FA
IC7602 NJM79M05FA
RECTIFIER D7521,7522
RECTIFIER D7501-7504
RECTIFIER D7601
S
REG ASSY
CN7601
CN7501
B DAC HIGH ASSY (SC-37)
C DAC LOW ASSY (SC-35,SC-1525-K)

5. DIAGNOSIS
5.1 DIAGNOSIS FLOWCHART

- Please use additional Service Manual (RRV4138) to find out location of component part on any assemblies. The SM is easy to find location of component part to use [Search] function of Acrobat software.

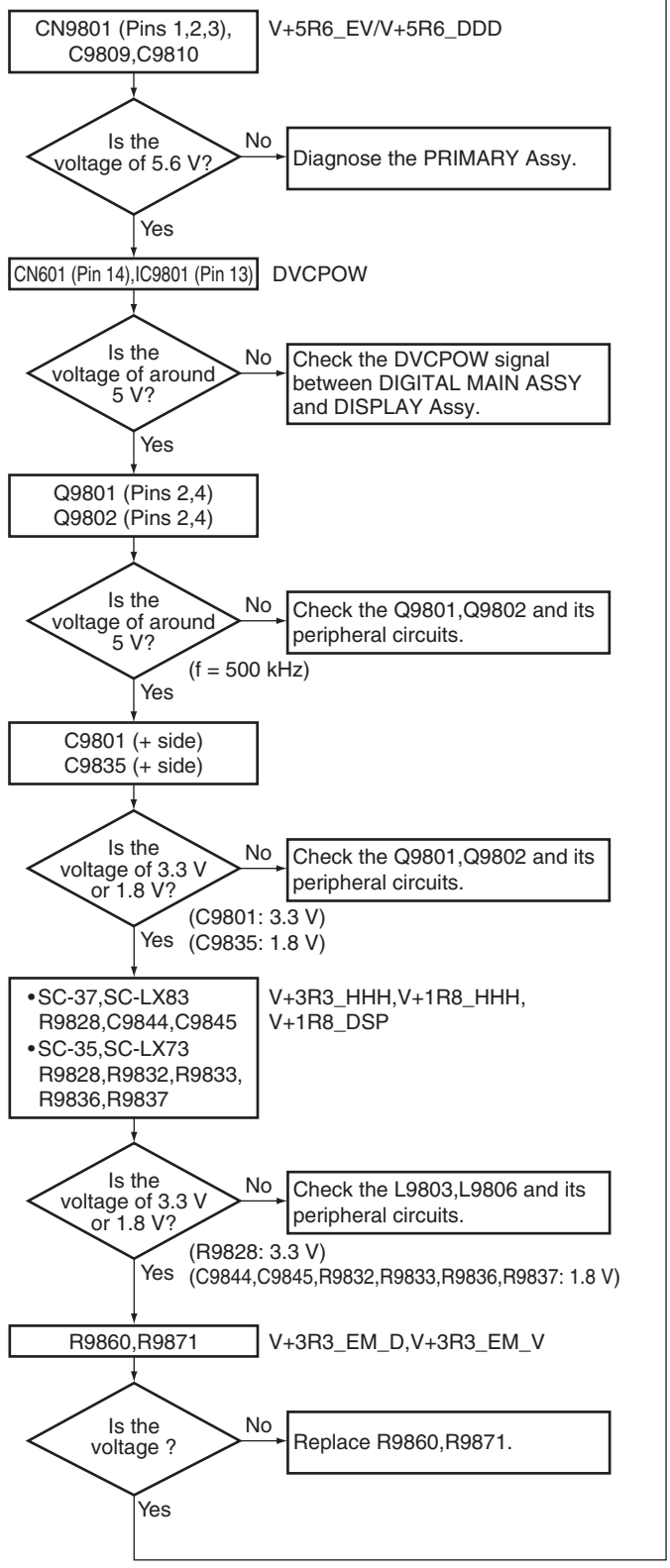
■ COMMON Troubleshooting with “No power problem”

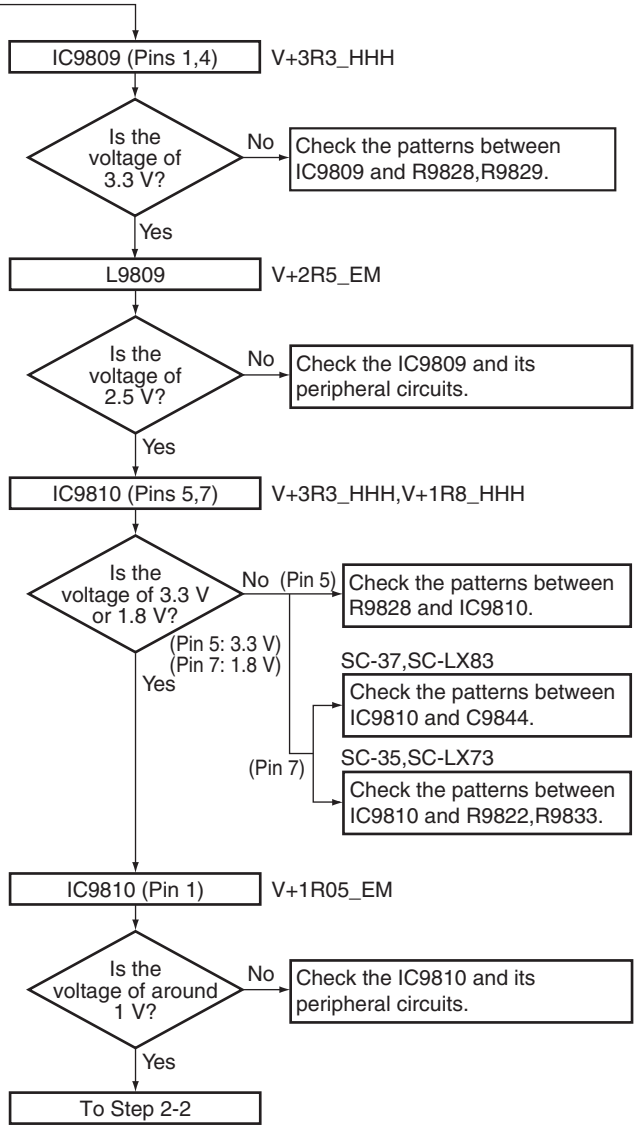
Step 1: EVENT Ucom



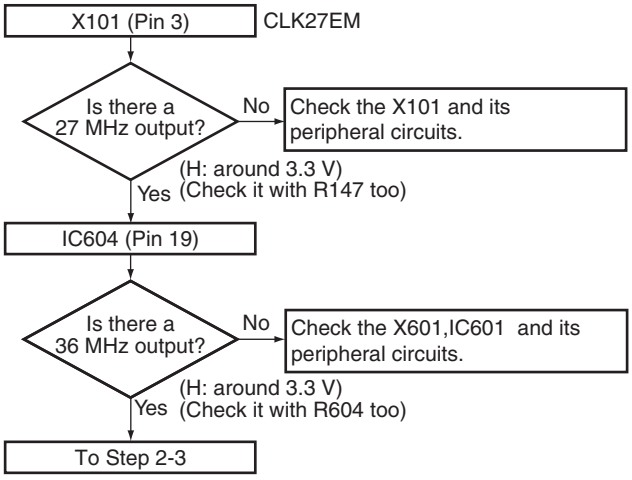
Step 2: MAIN Ucom (EMMA IC)

Step 2-1: POWER SUPPLY for MAIN Ucom

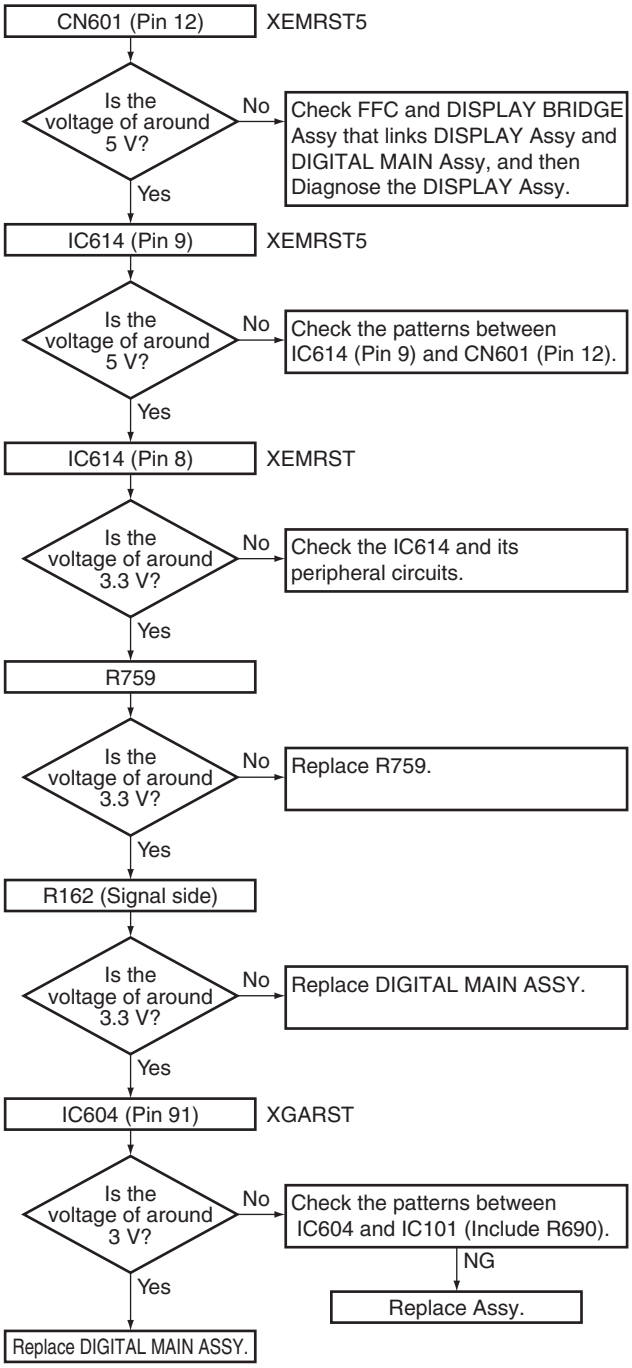




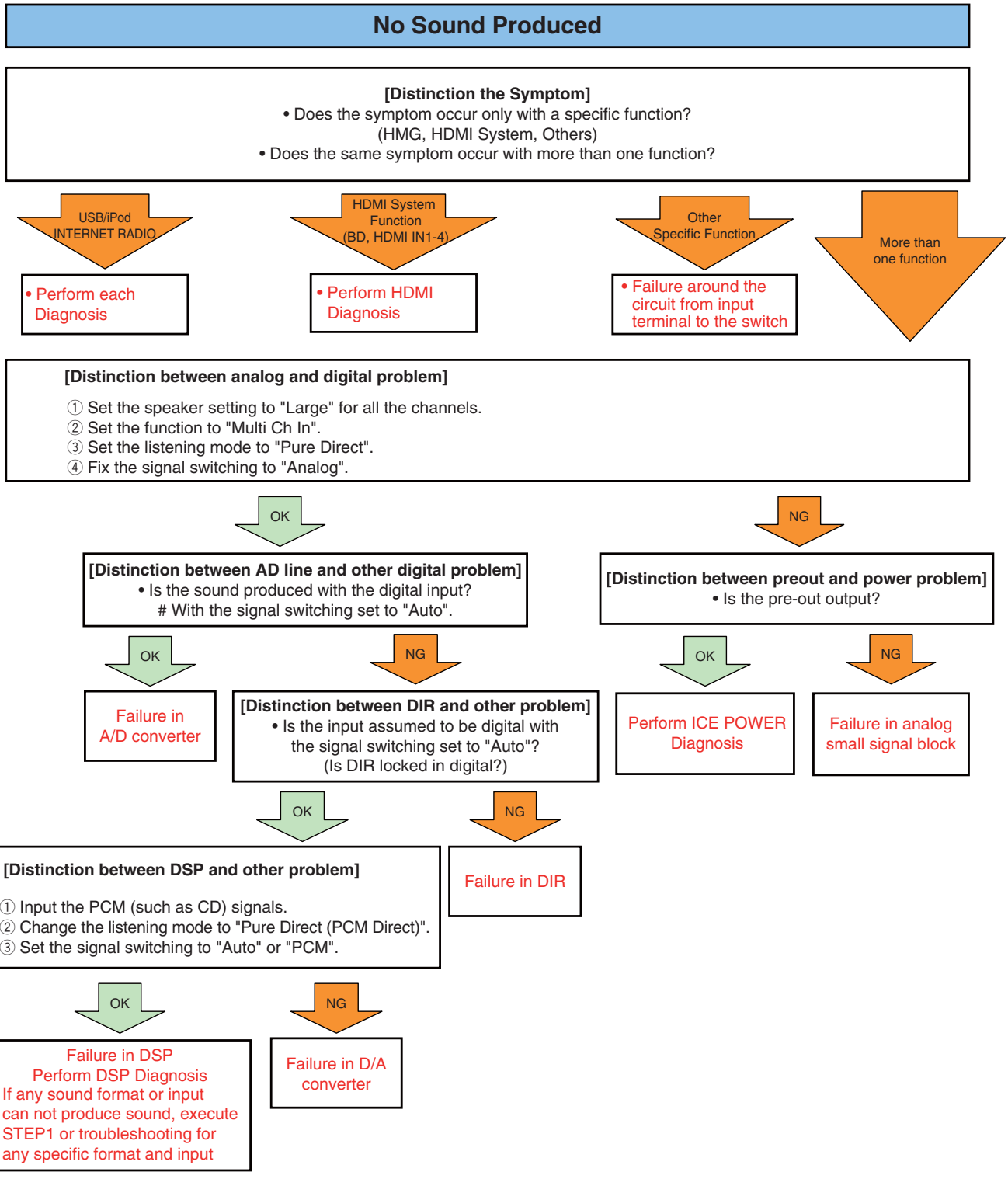
Step 2-2: Xtal for MAIN Ucom



Step 2-3: Reset for MAIN Ucom



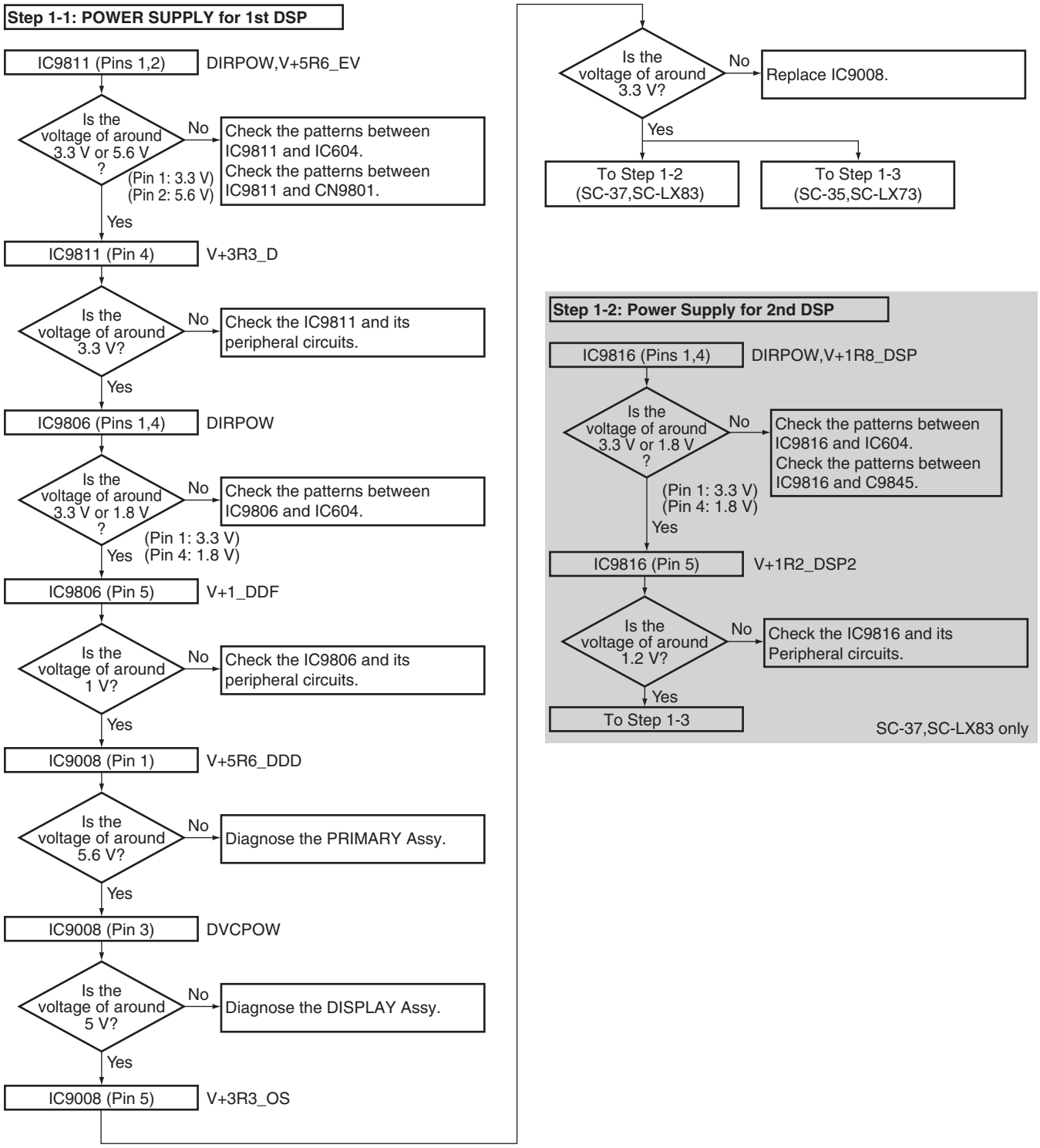
■ Audio Section Troubleshooting



■ DSP&AUDIO Troubleshooting

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

Step 1: DSP/AUDIO



Step 1-3: Xtal for DSP

X9001 (Pin 3)

Is there a 24 MHz output? — No → X9001 (Pin 1)

(H: around 4 Vp-p)

Yes

Is the voltage of around 3.3 V? — No → Check the X9001 and its peripheral circuits.

Yes → Replace X9001.

IC9011 (Pins 2,5)

Are there signals? — No → Check the patterns between IC9011 (Pins 2,5) and X9001.

Yes

IC9011 (Pins 3,6)

Are there signals? — No → Check the IC9011 and its peripheral circuits.

Yes

IC9003 (Pin 80) IC9202 (Pin 17) DSP2CLKIN

Are there signals? — No → Check the patterns between IC9003 (Pin 80),IC9202 (Pin 17) and IC9011 (Pins 2,5).

Yes SC-LX83,SC-LX73

X1801 (Pins 1,3)

Is there a 45 MHz output? — No → Check the X1801 and its peripheral circuits.

(H: around 1.4 Vp-p)

Yes

SC-37,SC-35 only

To Step 1-4

Step 1-4: Reset for DSP

IC9304 (Pin 12) XDIRRST

Is the voltage of around 3.3 V? — No → Check the IC9304 and its peripheral circuits.

Yes

IC9301 (Pin 26) XDIRRST

Is the voltage of around 3.3 V? — No → Check the patterns between IC9304 (Pin 12) and CN9301 (Pin 26).

Yes

IC9304 (Pin 13) XDSP1RST

Is the voltage of around 3.3 V? — No → Check the IC9304 and its peripheral circuits.

Yes

IC9003 (Pin 111) XDSP1RST

Is the voltage of around 3.3 V? — No → Check the patterns between IC9304 (Pin 13) and IC9003 (Pin 111) (Include R9049).

Yes

IC604 (Pin 63) XDSP2RST

Is the voltage of around 3.3 V? — No → Replace IC604.

Yes

IC9202 (Pin 14) XDSP2RST

Is the voltage of around 3.3 V? — No → Check the patterns between IC604 (Pin 63) and IC9202 (Pin 14) (Include R9230).

Yes

To Step 1-6 (SC-35,SC-LX73)

To Step 1-5 (SC-37,SC-LX83)

Step 1-5: HMG BLOCK

IC604 (Pin 54) XNETRST

Is the voltage of around 3.3 V? — No → Replace IC604.

Yes

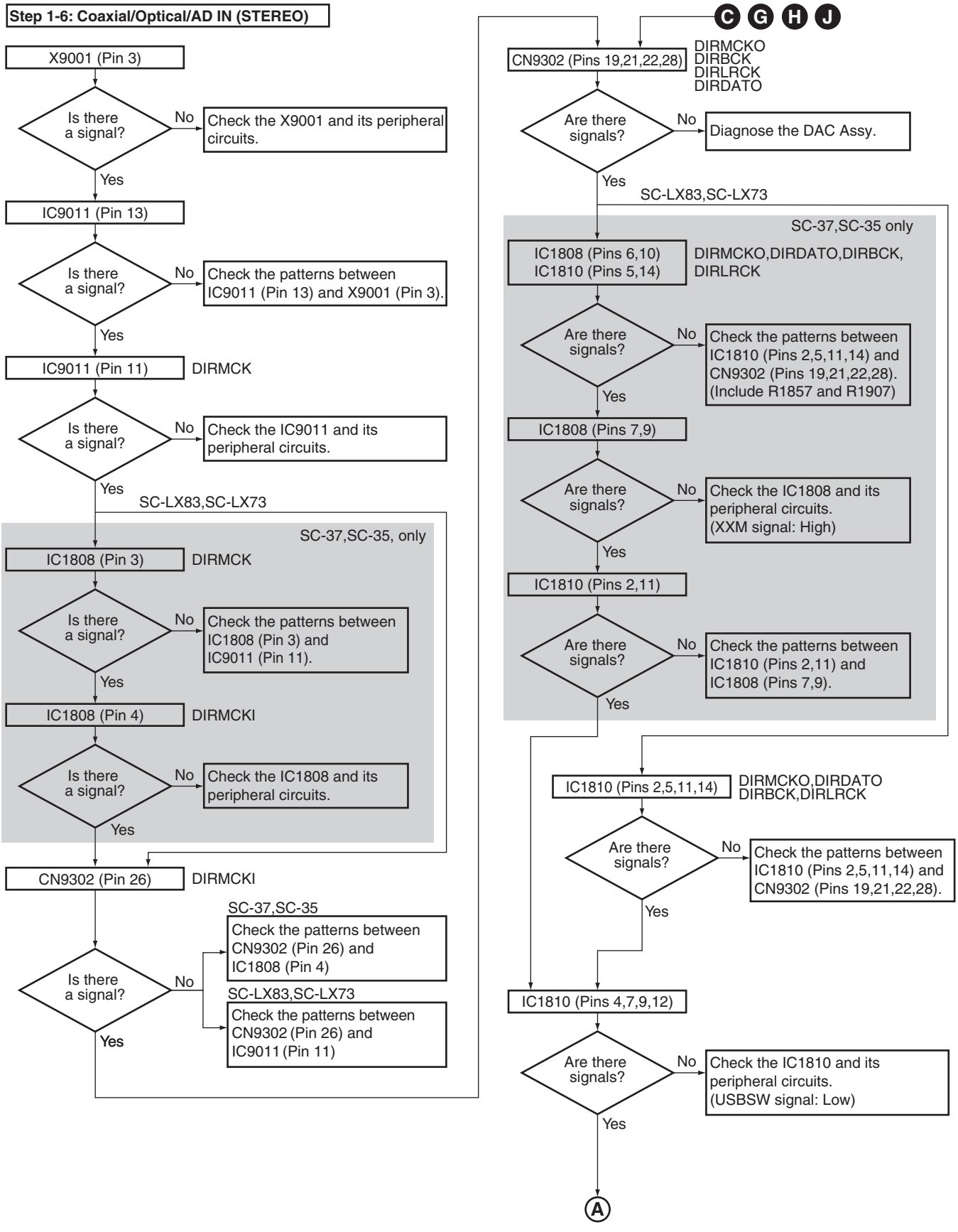
IC9503 (Pin 190) XNETRST

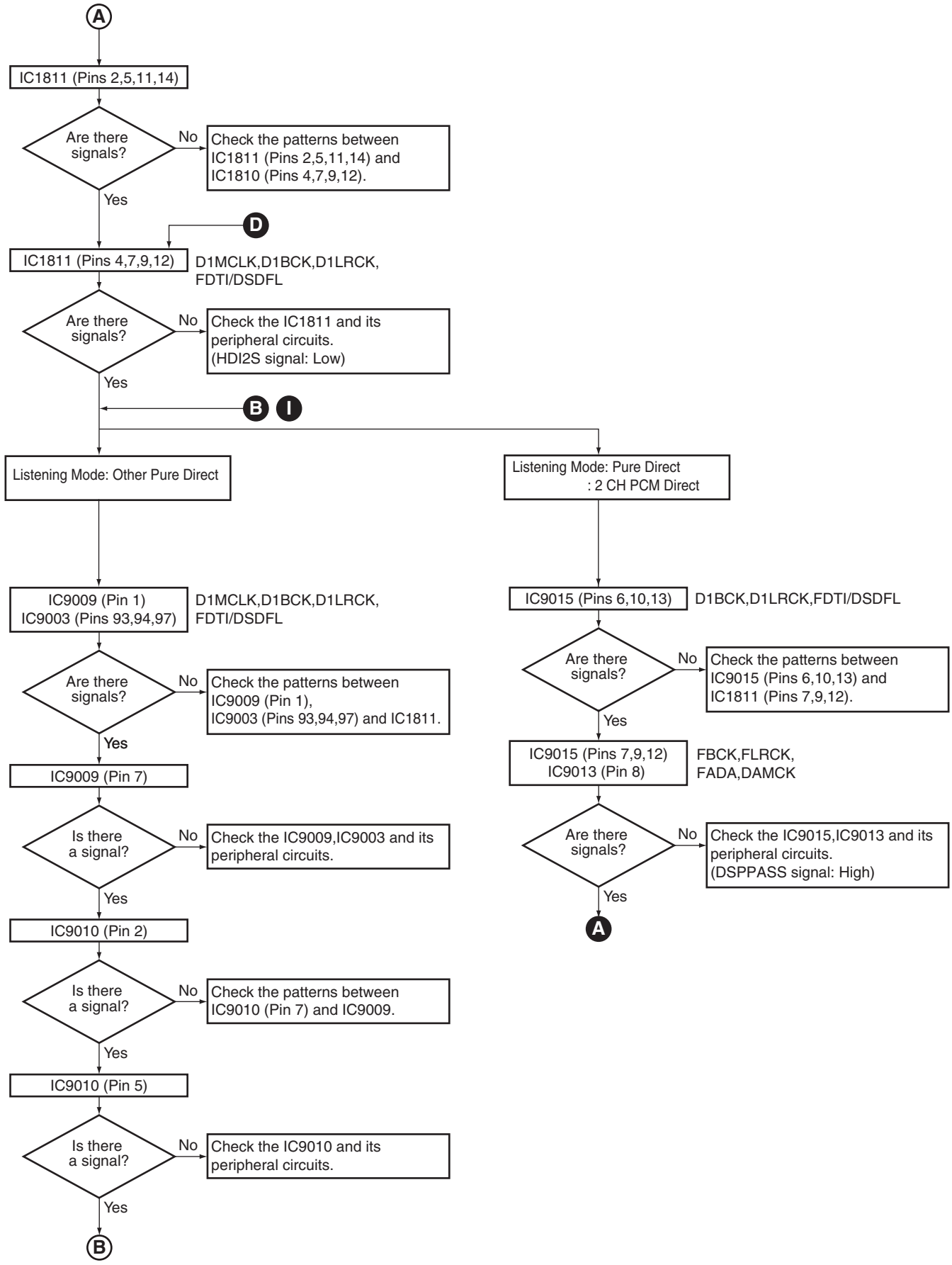
Is the voltage of around 3.3 V? — No → Check the patterns between IC604 (Pin 54) and IC9503 (Pin 190) (Include R9536).

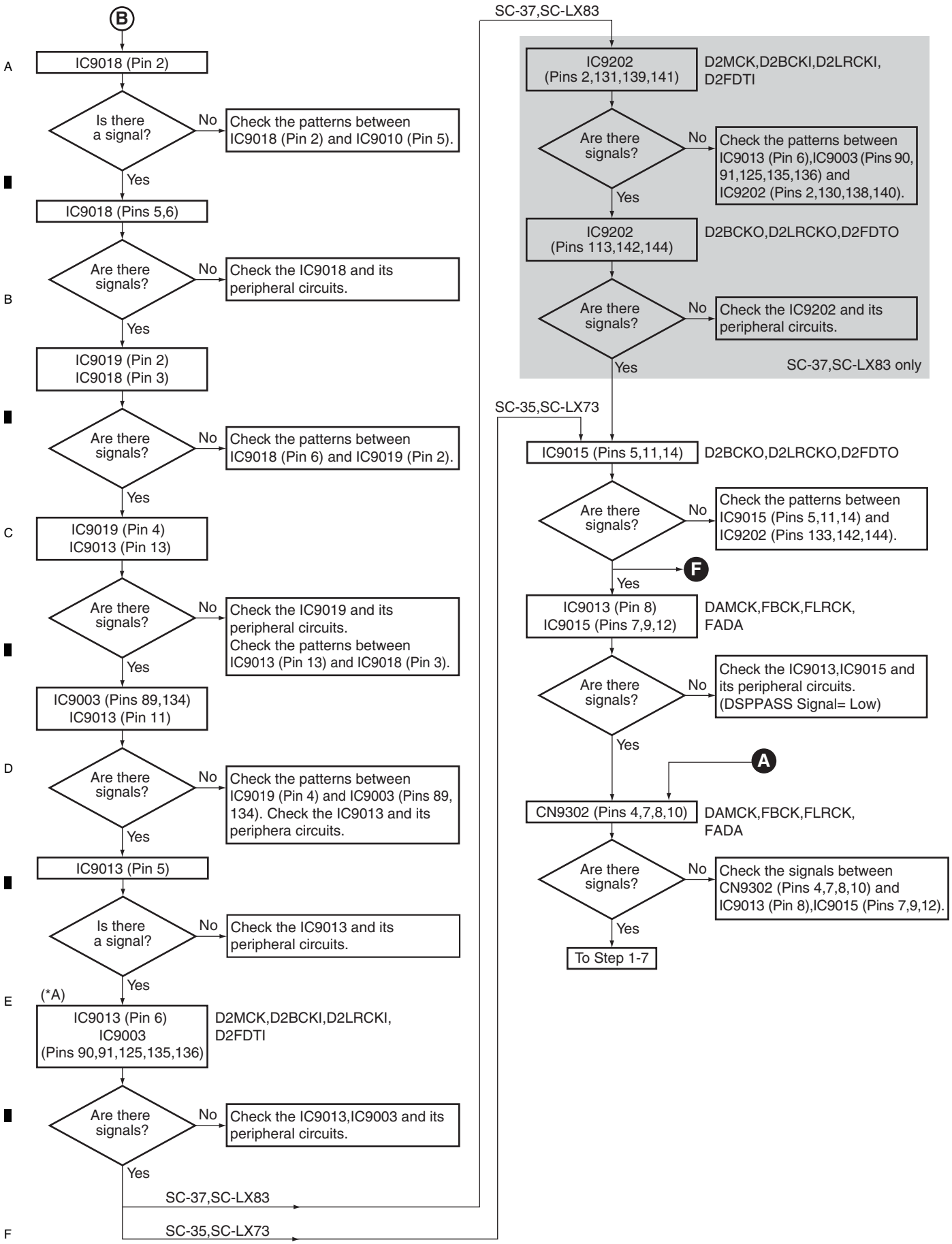
Yes

To Step 1-6

SC-37,SC-LX83 only


Step 1-6: Coaxial/Optical/AD IN (STEREO)
X9001 (Pin 3)
Is there a signal?
No
Check the X9001 and its peripheral circuits.
Yes
IC9011 (Pin 13)
Is there a signal?
No
Check the patterns between IC9011 (Pin 13) and X9001 (Pin 3).
Yes
IC9011 (Pin 11)
DIRMCK
Is there a signal?
No
Check the IC9011 and its peripheral circuits.
Yes
SC-LX83,SC-LX73
SC-37,SC-35, only
IC1808 (Pin 3)
DIRMCK
Is there a signal?
No
Check the patterns between IC1808 (Pin 3) and IC9011 (Pin 11).
Yes
IC1808 (Pin 4)
DIRMCKI
Is there a signal?
No
Check the IC1808 and its peripheral circuits.
Yes
CN9302 (Pin 26)
DIRMCKI
SC-37,SC-35
Check the patterns between CN9302 (Pin 26) and IC1808 (Pin 4)
Is there a signal?
No
SC-LX83,SC-LX73
Check the patterns between CN9302 (Pin 26) and IC9011 (Pin 11)
Yes
C G H J
CN9302 (Pins 19,21,22,28)
DIRMCKO
DIRBCK
DIRLRCK
DIRDATO
Are there signals?
No
Diagnose the DAC Assy.
Yes
SC-LX83,SC-LX73
SC-37,SC-35 only
IC1808 (Pins 6,10)
IC1810 (Pins 5,14)
DIRMCKO,DIRDATO,DIRBCK,
DIRLRCK
Are there signals?
No
Check the patterns between IC1810 (Pins 2,5,11,14) and CN9302 (Pins 19,21,22,28). (Include R1857 and R1907)
Yes
IC1808 (Pins 7,9)
Are there signals?
No
Check the IC1808 and its peripheral circuits. (XXM signal: High)
Yes
IC1810 (Pins 2,11)
Are there signals?
No
Check the patterns between IC1810 (Pins 2,11) and IC1808 (Pins 7,9).
Yes
IC1810 (Pins 2,5,11,14)
DIRMCKO,DIRDATO
DIRBCK,DIRLRCK
Are there signals?
No
Check the patterns between IC1810 (Pins 2,5,11,14) and CN9302 (Pins 19,21,22,28).
Yes
IC1810 (Pins 4,7,9,12)
Are there signals?
No
Check the IC1810 and its peripheral circuits. (USBSW signal: Low)
Yes
A


A
IC1811 (Pins 2,5,11,14)
Are there signals?
No
Check the patterns between IC1811 (Pins 2,5,11,14) and IC1810 (Pins 4,7,9,12).
Yes
D
IC1811 (Pins 4,7,9,12)
D1MCLK,D1BCK,D1LRCK, FDTI/DSDFL
Are there signals?
No
Check the IC1811 and its peripheral circuits. (HDI2S signal: Low)
Yes
B I
Listening Mode: Other Pure Direct
Listening Mode: Pure Direct : 2 CH PCM Direct
IC9009 (Pin 1) IC9003 (Pins 93,94,97)
D1MCLK,D1BCK,D1LRCK, FDTI/DSDFL
Are there signals?
No
Check the patterns between IC9009 (Pin 1), IC9003 (Pins 93,94,97) and IC1811.
Yes
IC9009 (Pin 7)
Is there a signal?
No
Check the IC9009,IC9003 and its peripheral circuits.
Yes
IC9010 (Pin 2)
Is there a signal?
No
Check the patterns between IC9010 (Pin 7) and IC9009.
Yes
IC9010 (Pin 5)
Is there a signal?
No
Check the IC9010 and its peripheral circuits.
Yes
B
IC9015 (Pins 6,10,13)
D1BCK,D1LRCK,FDTI/DSDFL
Are there signals?
No
Check the patterns between IC9015 (Pins 6,10,13) and IC1811 (Pins 7,9,12).
Yes
IC9015 (Pins 7,9,12) IC9013 (Pin 8)
FBCK,FLRCK, FADA,DAMCK
Are there signals?
No
Check the IC9015,IC9013 and its peripheral circuits. (DSPPASS signal: High)
Yes
A

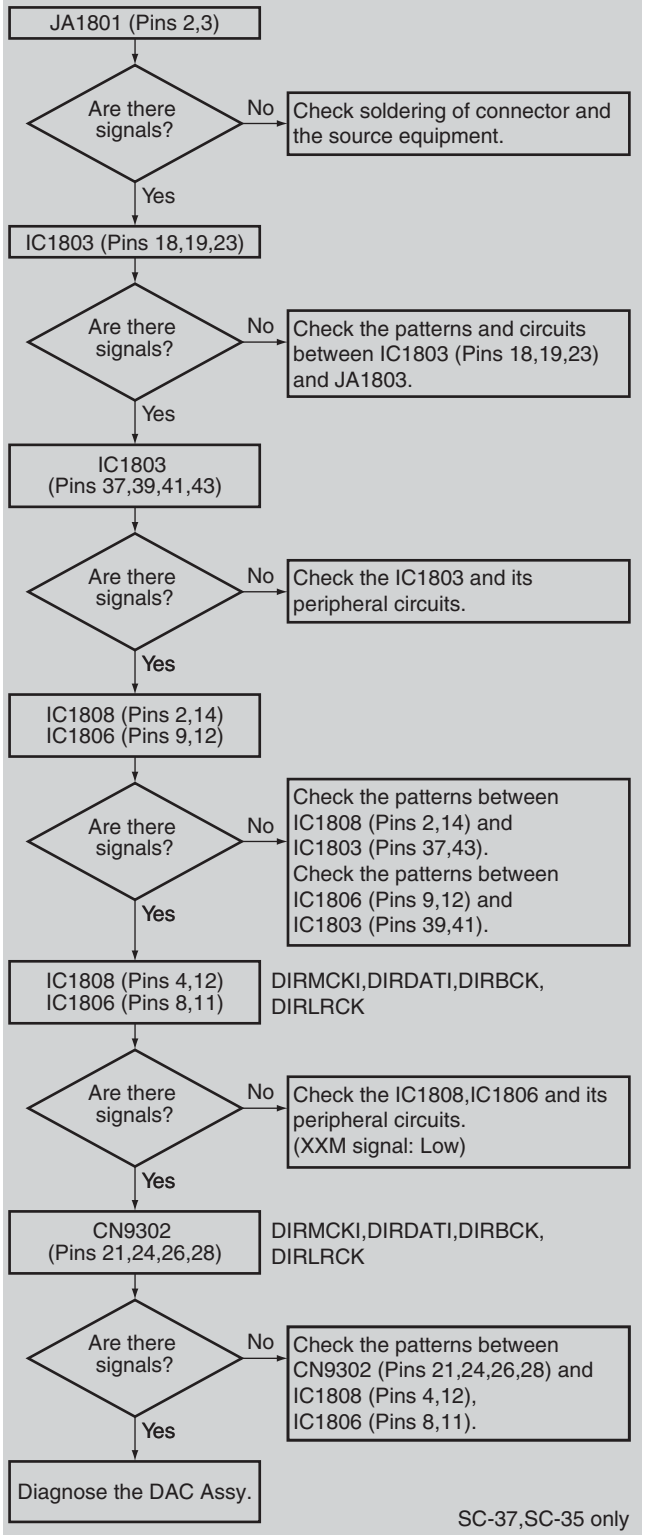

B
IC9018 (Pin 2)
Is there a signal?
No
Check the patterns between IC9018 (Pin 2) and IC9010 (Pin 5).
Yes
IC9018 (Pins 5,6)
Are there signals?
No
Check the IC9018 and its peripheral circuits.
Yes
IC9019 (Pin 2)
IC9018 (Pin 3)
Are there signals?
No
Check the patterns between IC9018 (Pin 6) and IC9019 (Pin 2).
Yes
IC9019 (Pin 4)
IC9013 (Pin 13)
Are there signals?
No
Check the IC9019 and its peripheral circuits.
Check the patterns between IC9013 (Pin 13) and IC9018 (Pin 3).
Yes
IC9003 (Pins 89,134)
IC9013 (Pin 11)
Are there signals?
No
Check the patterns between IC9019 (Pin 4) and IC9003 (Pins 89, 134). Check the IC9013 and its periphera circuits.
Yes
IC9013 (Pin 5)
Is there a signal?
No
Check the IC9013 and its peripheral circuits.
Yes
(*A)
IC9013 (Pin 6)
IC9003
(Pins 90,91,125,135,136)
D2MCK,D2BCKI,D2LRCKI, D2FDTI
Are there signals?
No
Check the IC9013,IC9003 and its peripheral circuits.
Yes
SC-37,SC-LX83
SC-35,SC-LX73
SC-37,SC-LX83
IC9202
(Pins 2,131,139,141)
D2MCK,D2BCKI,D2LRCKI, D2FDTI
Are there signals?
No
Check the patterns between IC9013 (Pin 6),IC9003 (Pins 90, 91,125,135,136) and IC9202 (Pins 2,130,138,140).
Yes
IC9202
(Pins 113,142,144)
D2BCKO,D2LRCKO,D2FDTO
Are there signals?
No
Check the IC9202 and its peripheral circuits.
Yes
SC-37,SC-LX83 only
SC-35,SC-LX73
IC9015 (Pins 5,11,14)
D2BCKO,D2LRCKO,D2FDTO
Are there signals?
No
Check the patterns between IC9015 (Pins 5,11,14) and IC9202 (Pins 133,142,144).
F
Yes
IC9013 (Pin 8)
IC9015 (Pins 7,9,12)
DAMCK,FBCK,FLRCK, FADA
Are there signals?
No
Check the IC9013,IC9015 and its peripheral circuits. (DSPPASS Signal= Low)
Yes
A
CN9302 (Pins 4,7,8,10)
DAMCK,FBCK,FLRCK, FADA
Are there signals?
No
Check the signals between CN9302 (Pins 4,7,8,10) and IC9013 (Pin 8),IC9015 (Pins 7,9,12).
Yes
To Step 1-7

Step 1-7: Multi CH SOURCE INPUT (compression system such as DTS and Dolby)

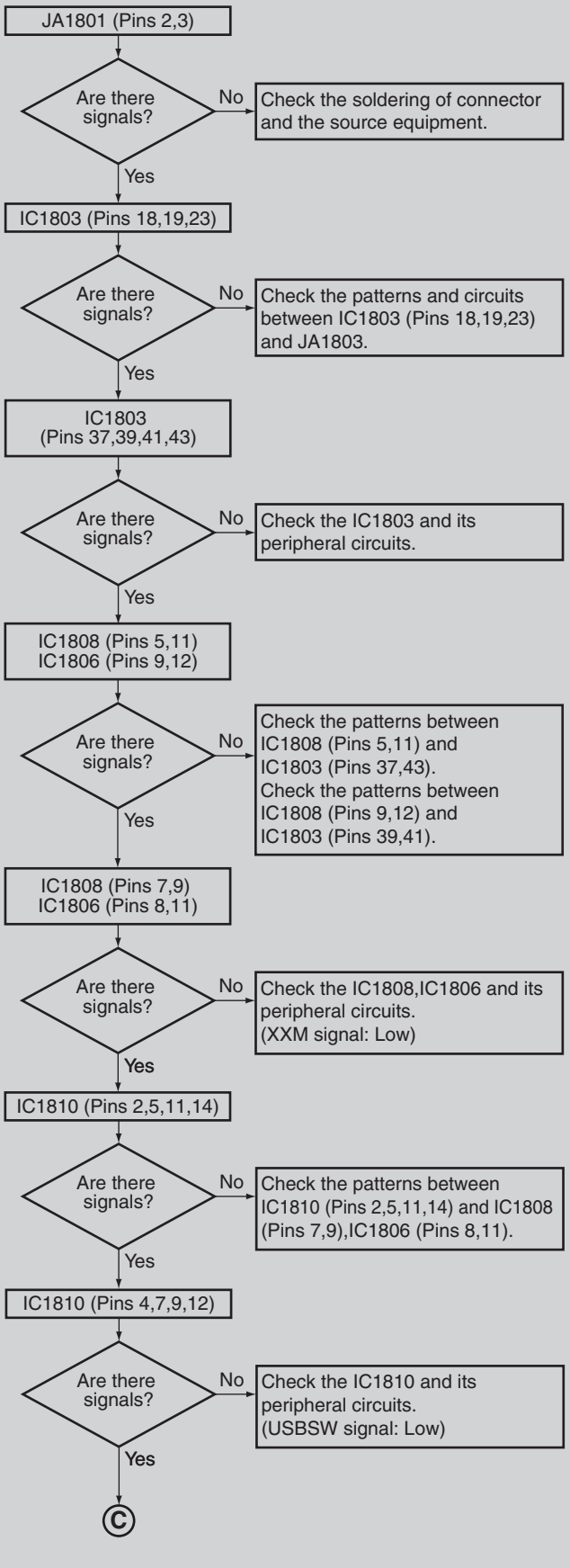
Diagnose D2CDTI, D2SDTI, and D2BDTI additionally in the step 1-6*A. For the following steps, diagnose the center, surround and surround back ch additionally in a same way.

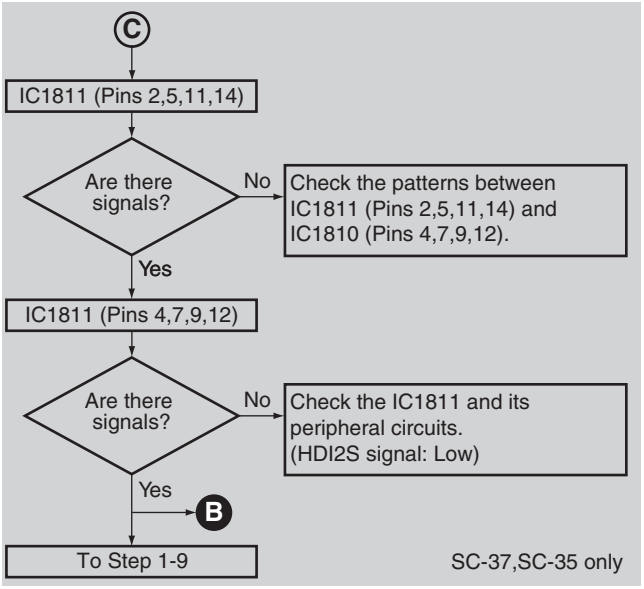
Step 1-8: XM RADIO

OPTICAL OUT



Other OPTICAL OUT

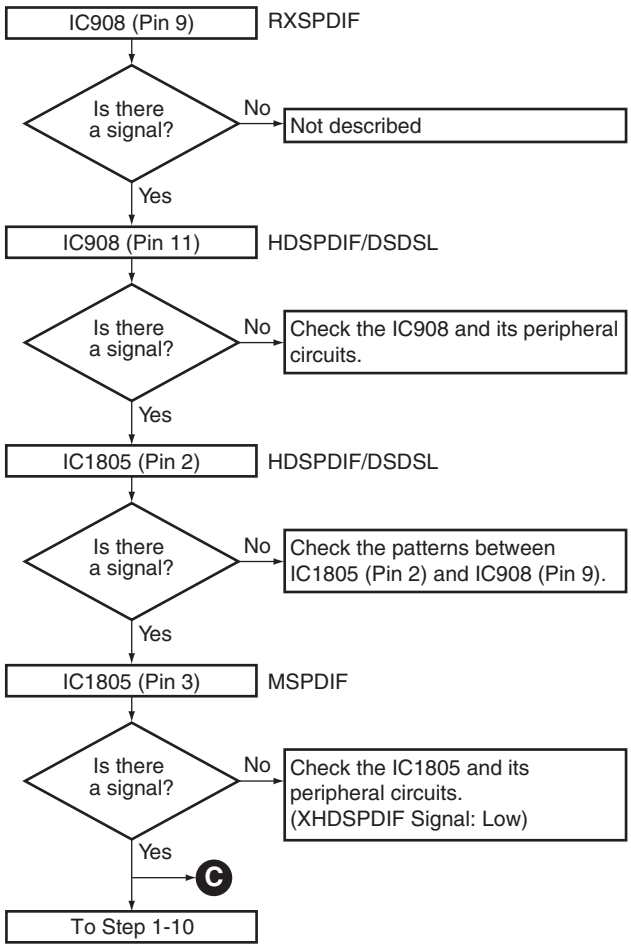




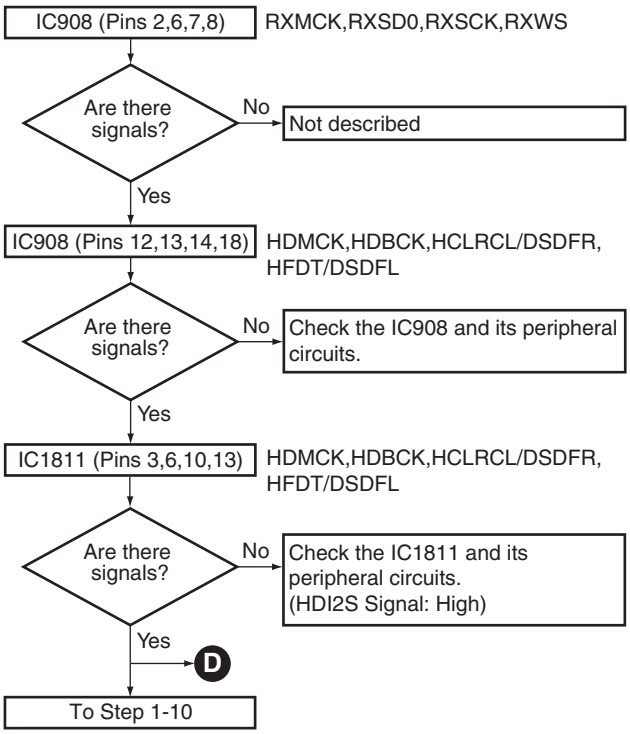
Step 1-9: HDMI

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

SPDIF

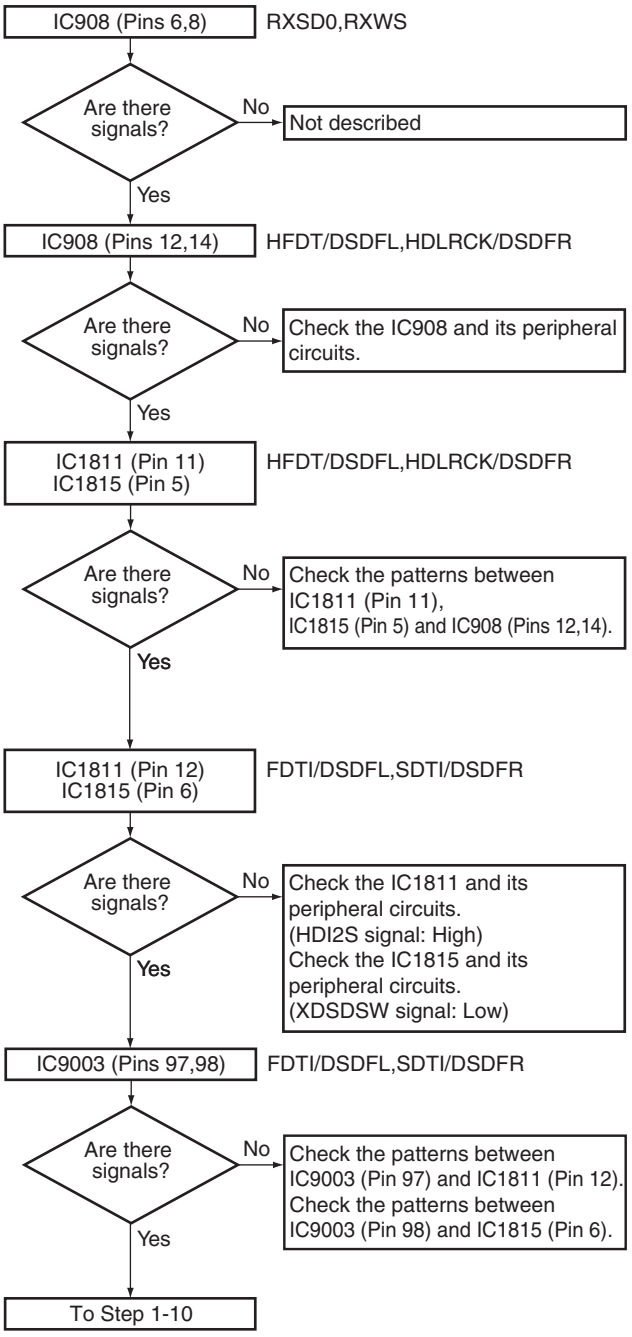


2ch I2S



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

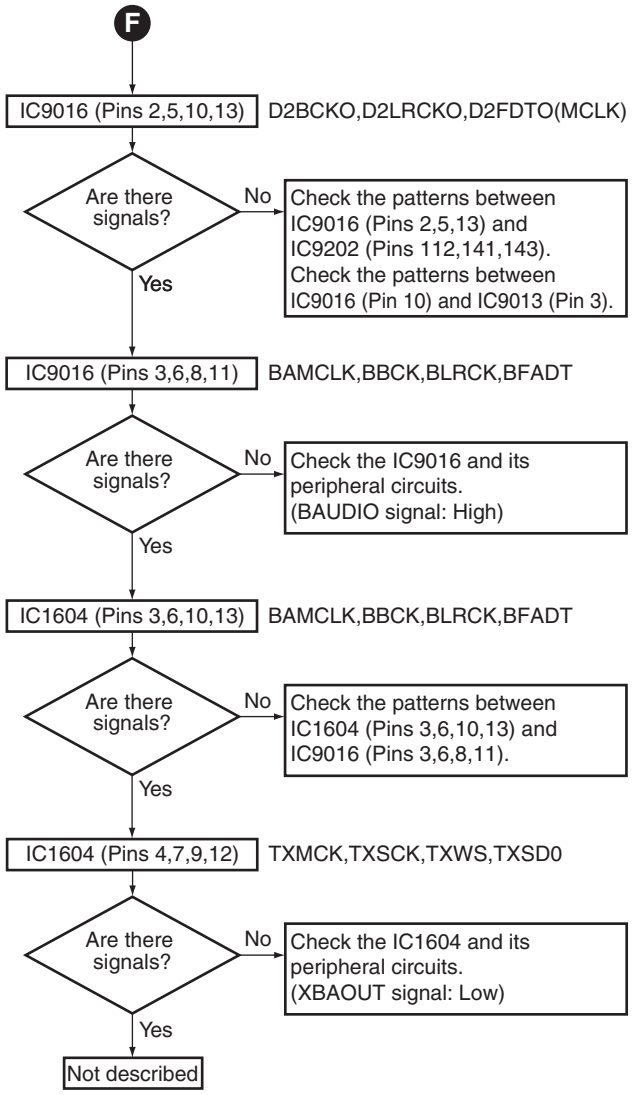
2ch DSD



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

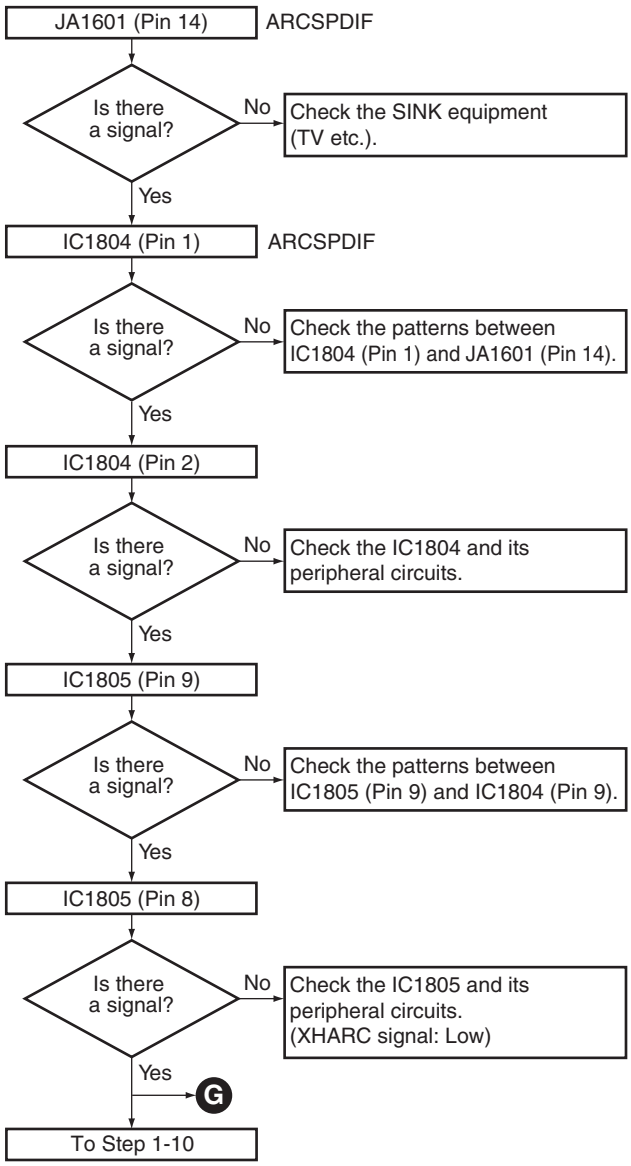
BASIC AUDIO (2ch LPCM fs = 44.1 kHz,48 kHz)

Diagnose SPDIF or 2ch I2S and make following diagnoses after the Step1-6Ⓕ or later.

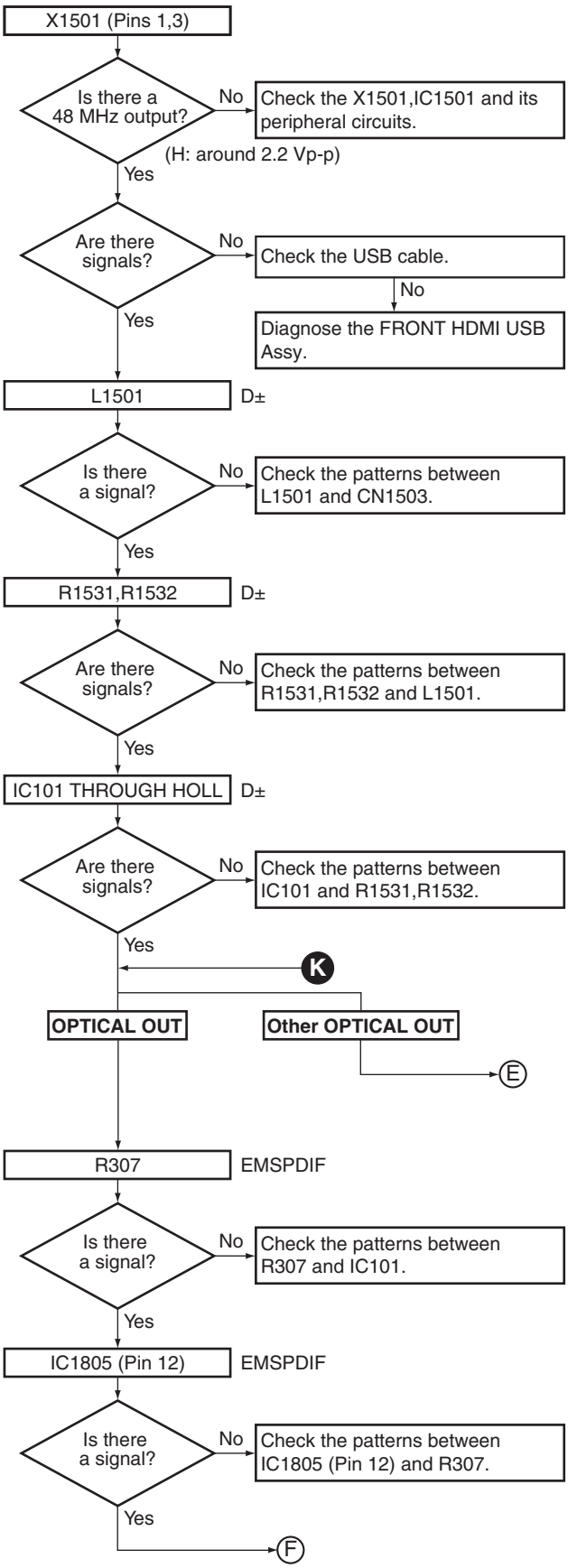


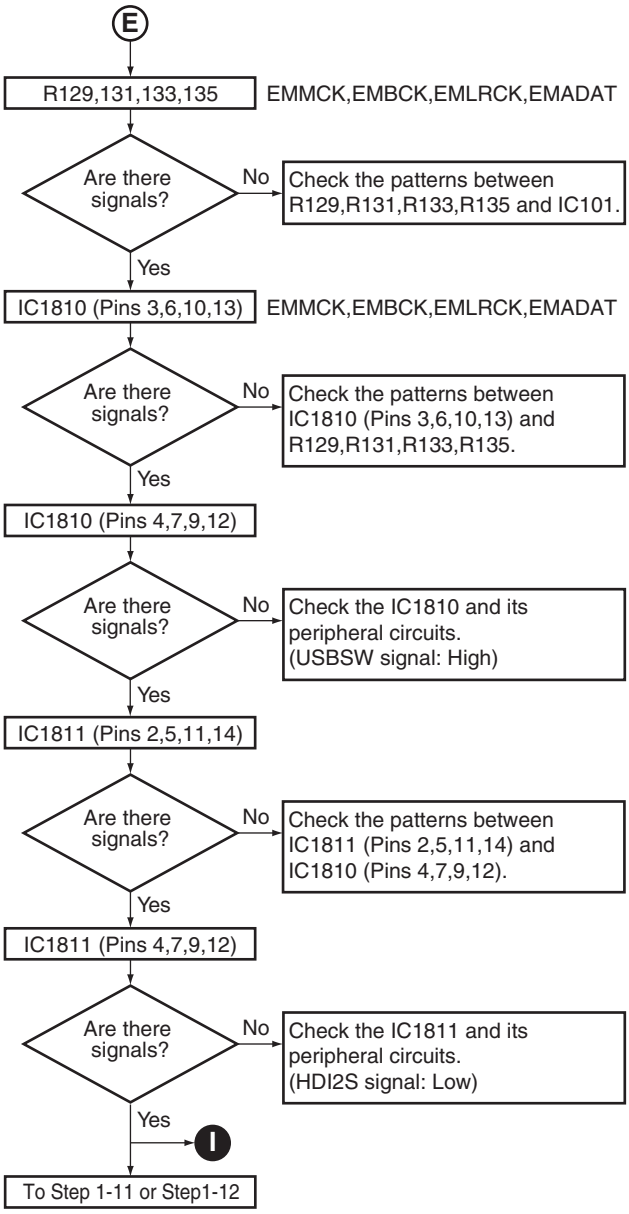
ARC

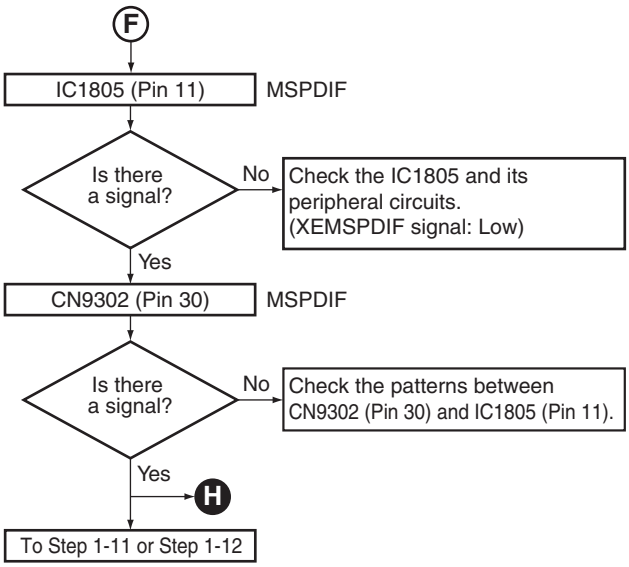
ARC : Audio Return Channel
This is one of HDMI ver1.4a functions.
Refer to IM "TV Audio setting" of "Control with HDMI function "



Step 1-10: USB/iPod

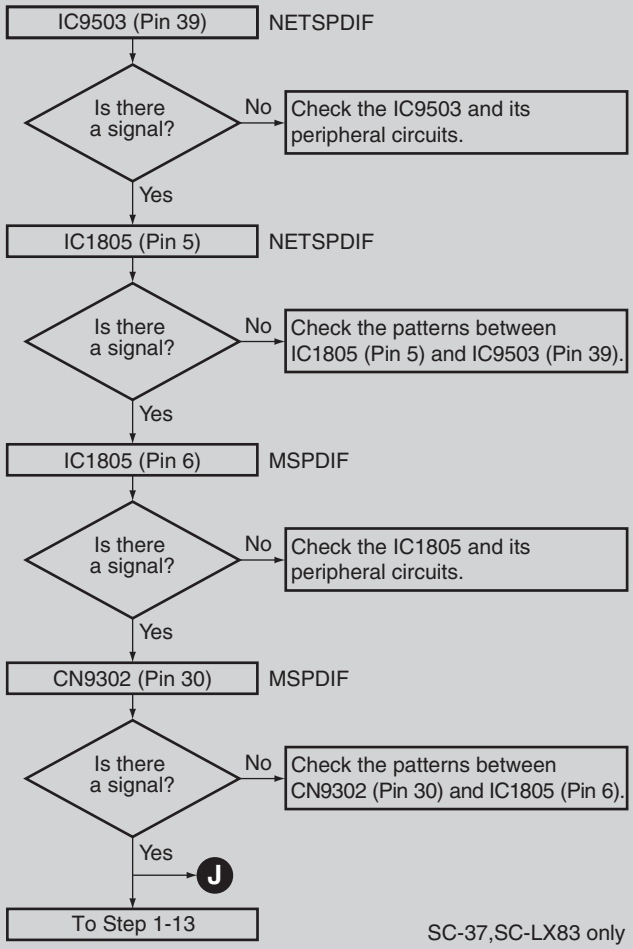






Step 1-11: H.M.G

* The link with the source equipment (PC, NAS etc.) should be provided.



SC-37,SC-LX83 only

Step 1-12: INTERNET RADIO

JA9501 (Pins 1,2,3,6)

Are there signals? — No → Check the source equipment.

Yes

IC9506 (Pins 44,45,47,48)

Are there signals? — No → Check the patterns between IC9506 (Pins 44, 45, 47, 48) and JA9501 (Pins 1, 2, 3, 6) (L9513, 9514 are included)

Yes

IC9506 (Data pin) HDATA 0-15

Are there signals? — No → Check IC9506 and its peripheral circuits. Check whether there are signals such as XRDGA, XWRGA and XCSLAN.

Yes → K

To Step 1-13

SC-35,SC-LX73 only

Step 1-13: ADAPTOR PORT (BLUETOOTH)

JA9301 (Pins 14,16)

Are there signals? — No → Check the soldering of JA9301, Check the BT ADAPTOR.

Yes

CN9301 (Pins 1,3) BTLO,BTRO

Are there signals? — No → Check the patterns between CN9301 (Pins 1,3) and JA9301 (Pins 14,16).

Yes

Diagnose the D-DAC BRIDGE Assy

Step 1-14: ZONE (XM RADIO,USB/iPod,H.M.G)

* The sound should be properly output in MAIN room.

XM RADIO

IC1809 (Pins 2,5,11,14) DIRLRCK,DIRBCK

Are there signals? — No → To Step 1-8 XM RADIO.

Yes

IC1809 (Pins 4,7,9,12)

Are there signals? — No → Check the IC1809 and its peripheral circuits. (ZXM signal: Low)

Yes

IC1814 (Pins 2,5,11,14)

Are there signals? — No → Check the patterns between IC1814 (Pins 2,5,11,14) and IC1809 (Pins 4,7,9,12).

Yes

IC1814 (Pins 4,7,9,12) ZMCLK,ZBCK,ZLRCK,ZFADA

Are there signals? — No → Check the IC1814 and its peripheral circuits. (Z2NET signal: Low)

Yes

CN9302 (Pins 13,15,16,17) ZMCLK,ZBCK,ZLRCK,ZFADA

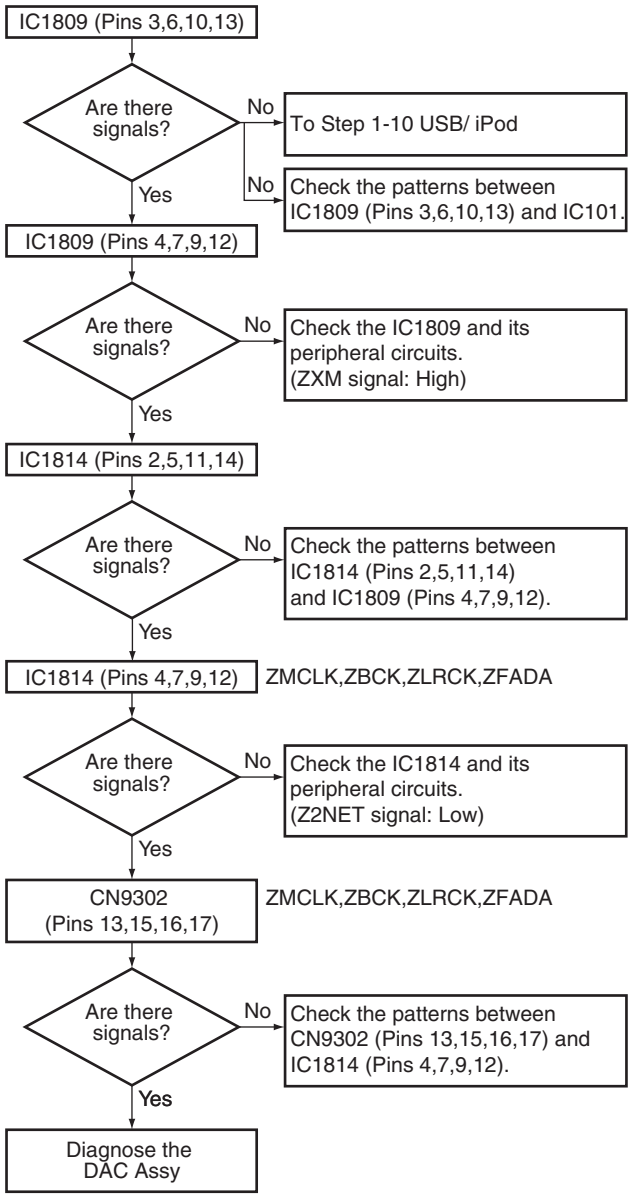
Are there signals? — No → Check the patterns between CN9302 (Pins 13,15,16,17) and IC1814 (Pins 4,7,9,12).

Yes

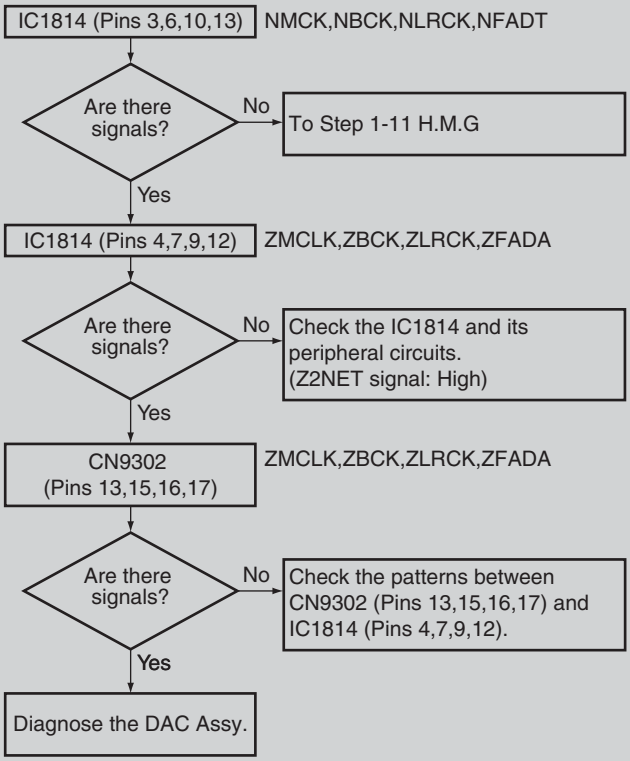
Diagnose the DAC Assy.

SC-37,SC-35 only

USB/iPod



H.M.G



SC-37,SC-LX83 only

Condition of SPDIF or I2S output selection (HDMI transmission)

Cannot be distinguished

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

SACD	2ch	×	o	(DSD)
	Multi	×	o	(DSD)

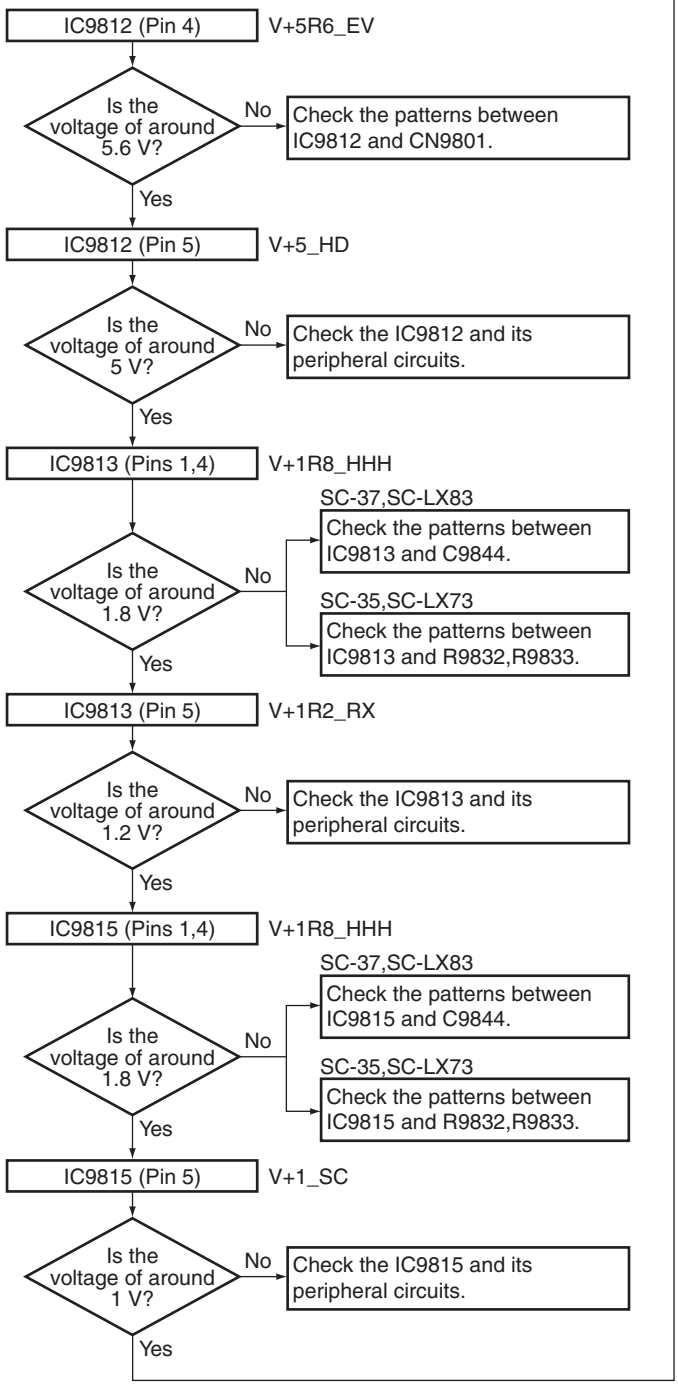
dts HD Master Audio	×	o
dts HD High Resolution Audio	o	×
dts HD LBR	o	×
Dolby TrueHD	×	o
Dolby Digital Plus	o	×

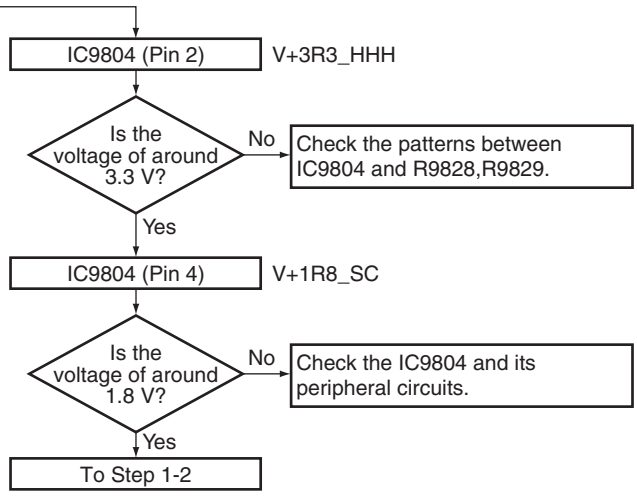
■ VIDEO Troubleshooting

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

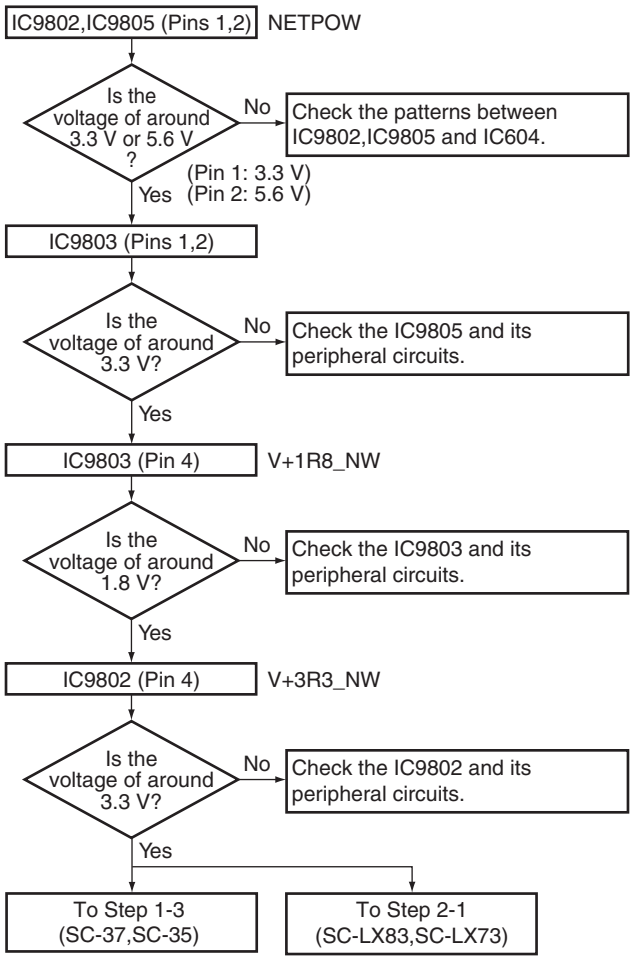
Step 1: POWER SUPPLY

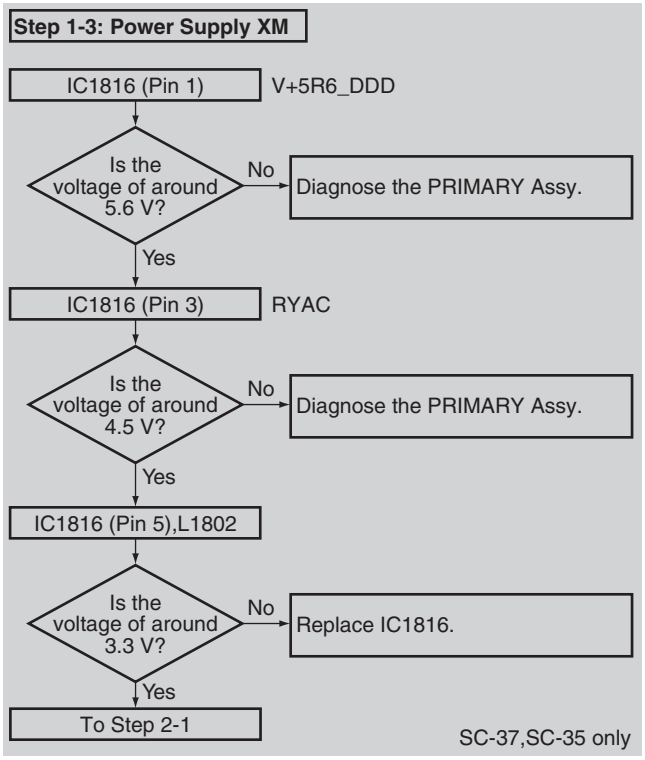
Step 1-1: Power Supply Video



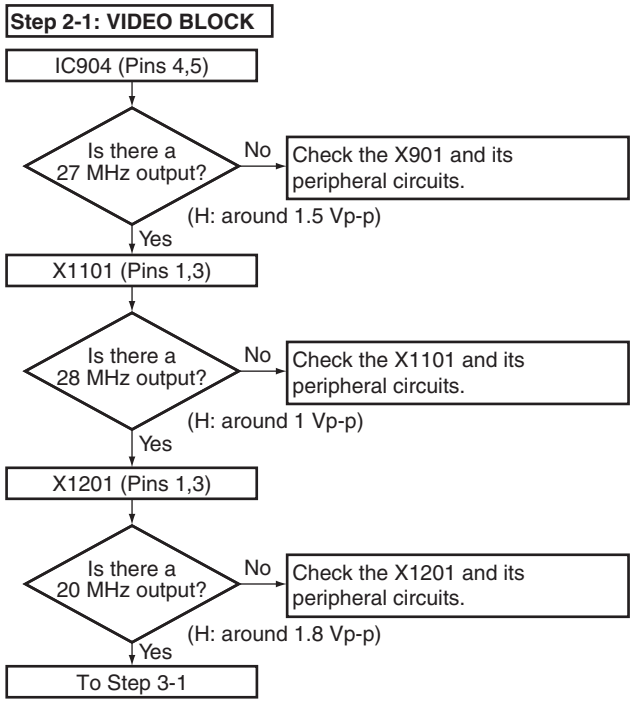


Step 1-2: Power Supply Network

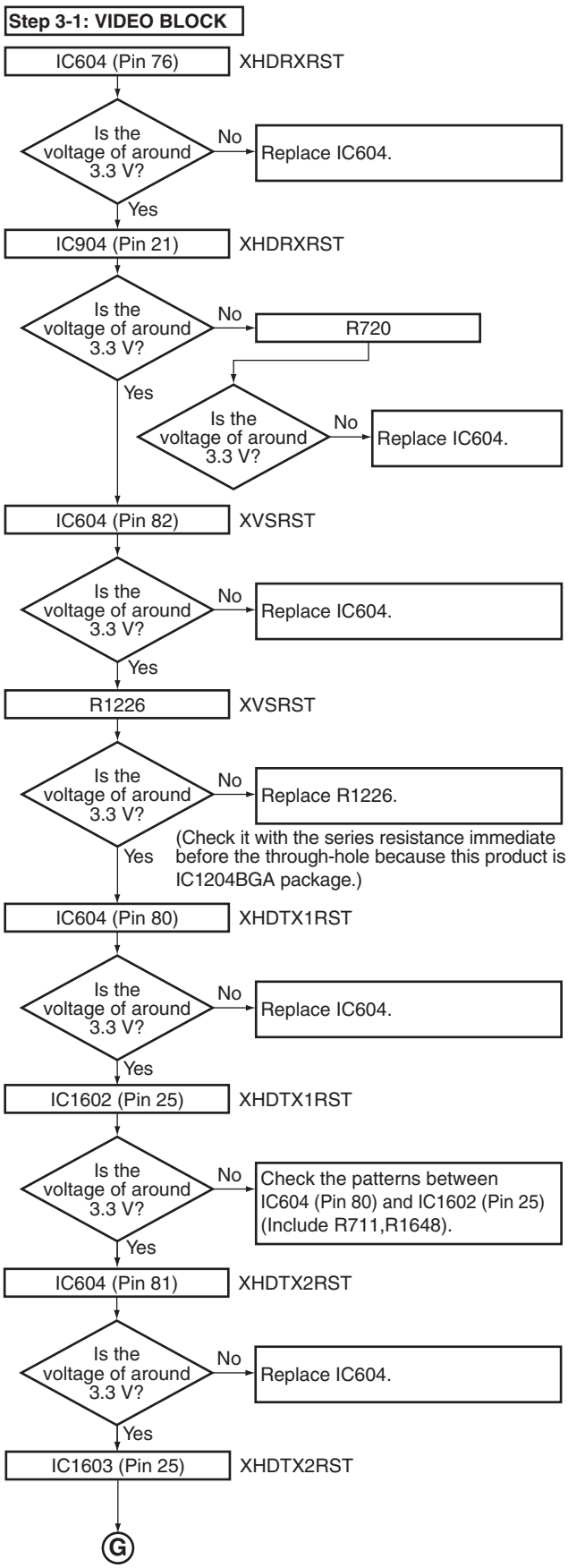


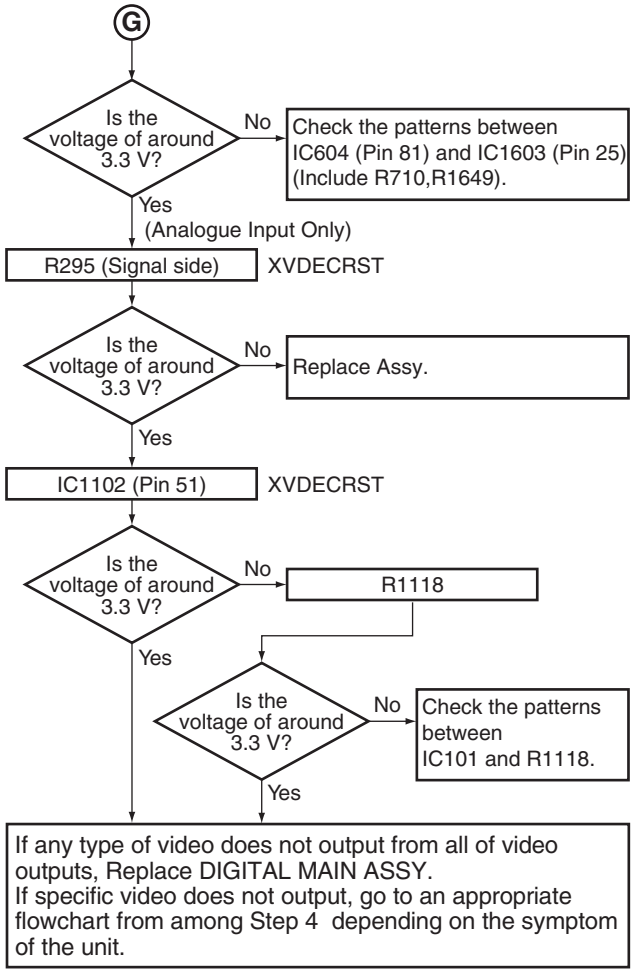


Step 2: Xtal



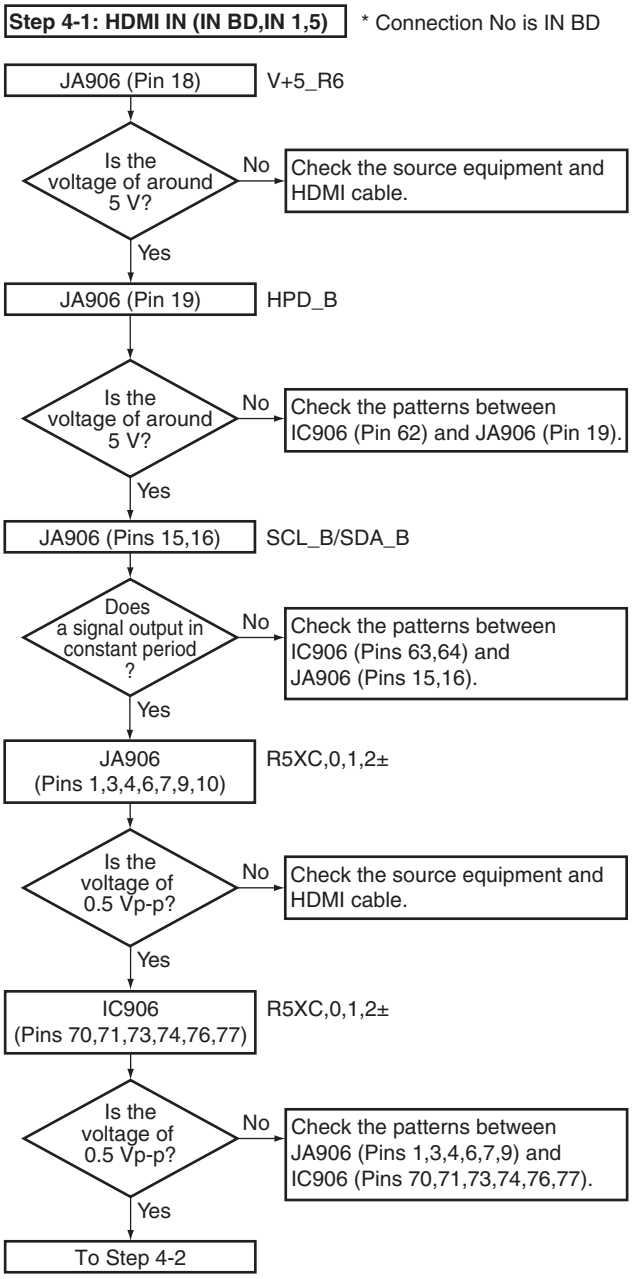
Step 3: Reset

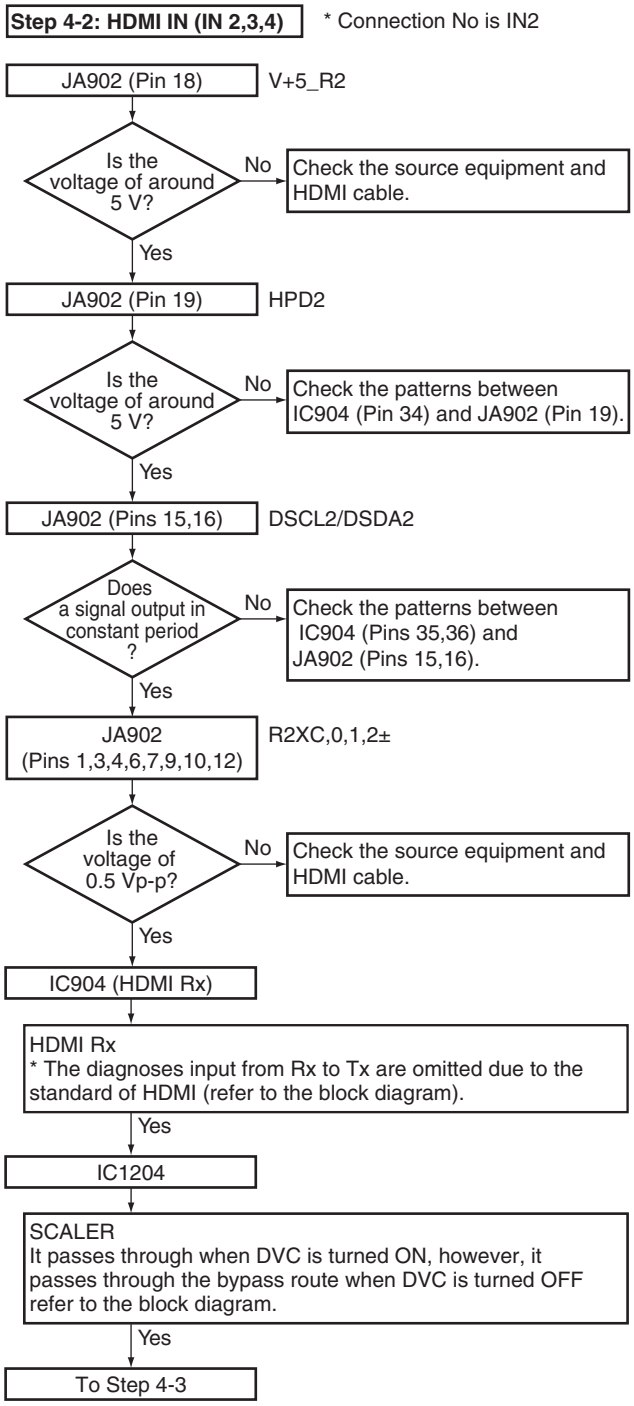


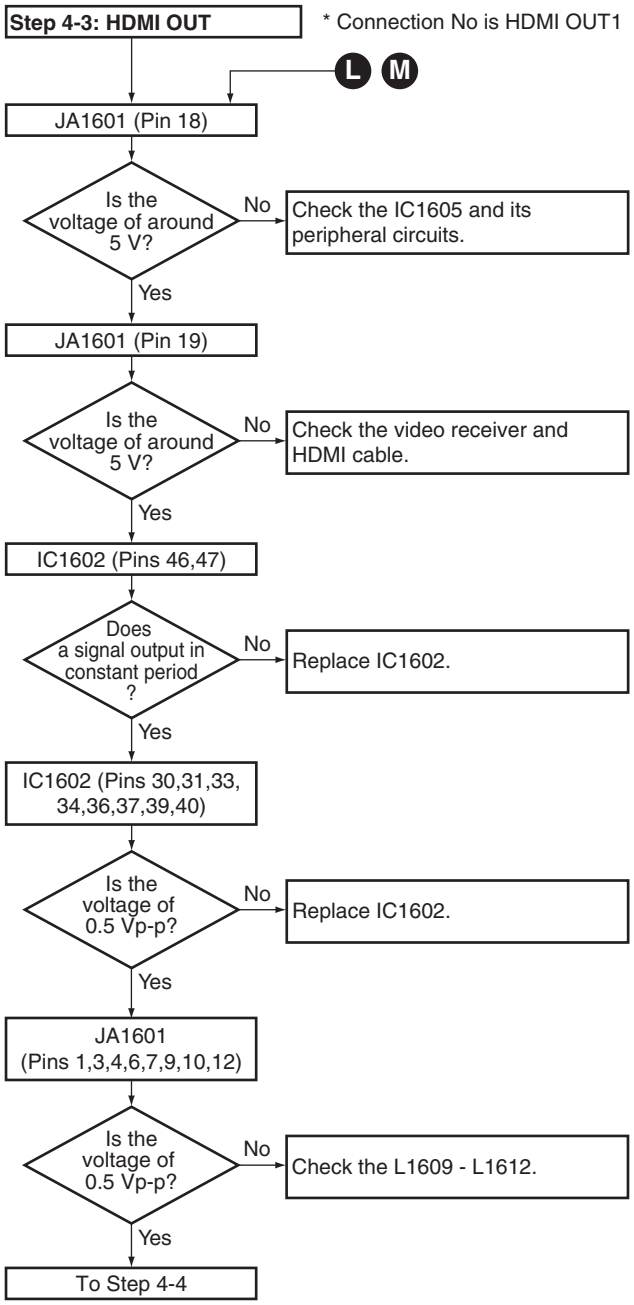


Step 4: VIDEO

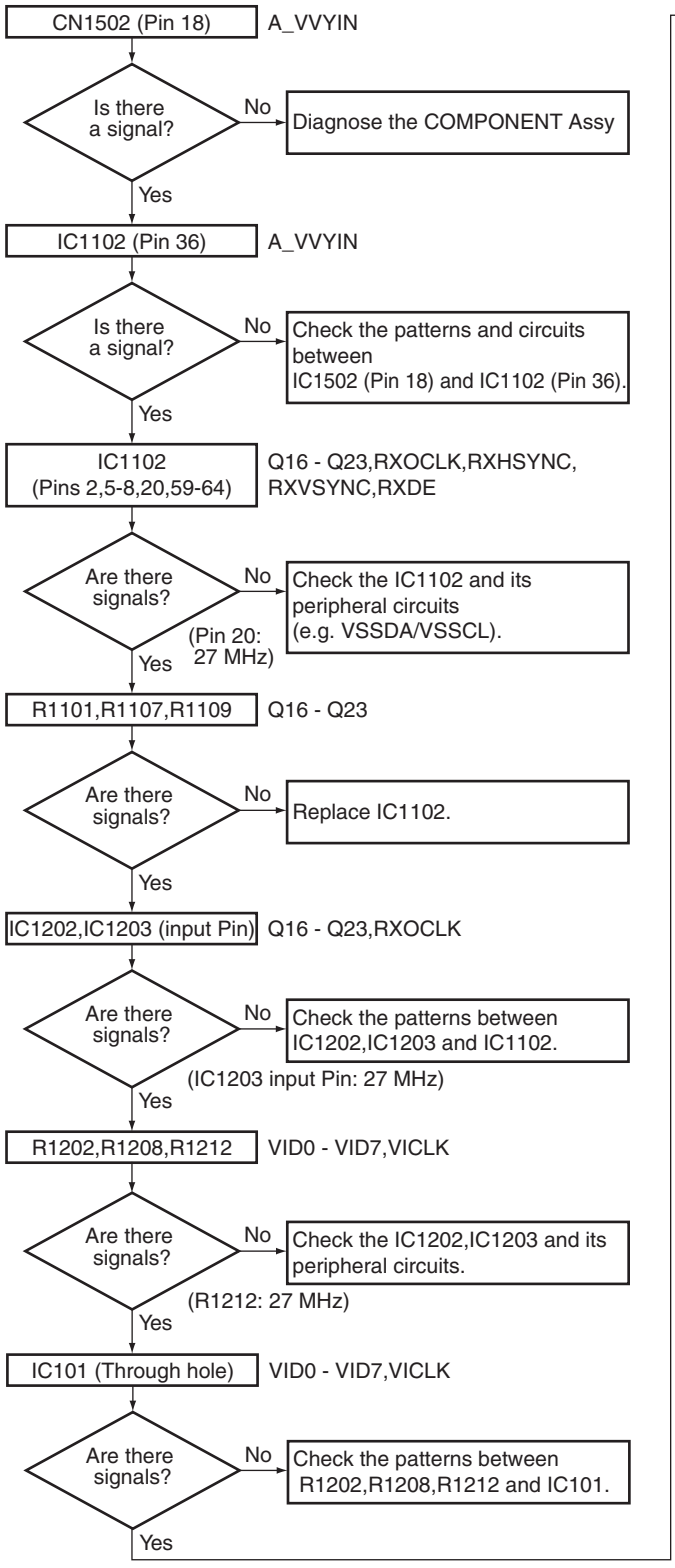
* The indicator (LED) of HDMI on the front panel should light up.



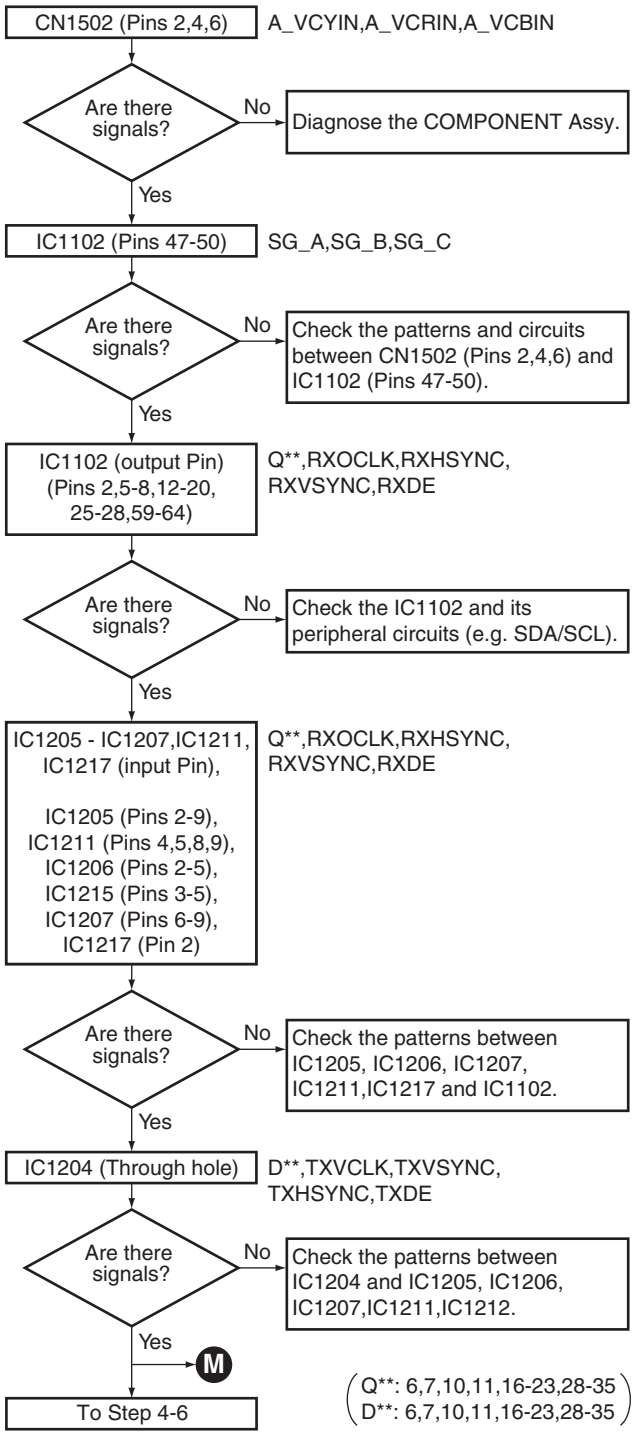

Step 4-2: HDMI IN (IN 2,3,4)
* Connection No is IN2
JA902 (Pin 18)
V+5_R2
Is the voltage of around 5 V?
No
Check the source equipment and HDMI cable.
Yes
JA902 (Pin 19)
HPD2
Is the voltage of around 5 V?
No
Check the patterns between IC904 (Pin 34) and JA902 (Pin 19).
Yes
JA902 (Pins 15,16)
DSCL2/DSDA2
Does a signal output in constant period ?
No
Check the patterns between IC904 (Pins 35,36) and JA902 (Pins 15,16).
Yes
JA902 (Pins 1,3,4,6,7,9,10,12)
R2XC,0,1,2±
Is the voltage of 0.5 Vp-p?
No
Check the source equipment and HDMI cable.
Yes
IC904 (HDMI Rx)
HDMI Rx
* The diagnoses input from Rx to Tx are omitted due to the standard of HDMI (refer to the block diagram).
Yes
IC1204
SCALER
It passes through when DVC is turned ON, however, it passes through the bypass route when DVC is turned OFF refer to the block diagram.
Yes
To Step 4-3


Step 4-3: HDMI OUT
* Connection No is HDMI OUT1
L
M
JA1601 (Pin 18)
Is the voltage of around 5 V?
No
Check the IC1605 and its peripheral circuits.
Yes
JA1601 (Pin 19)
Is the voltage of around 5 V?
No
Check the video receiver and HDMI cable.
Yes
IC1602 (Pins 46,47)
Does a signal output in constant period ?
No
Replace IC1602.
Yes
IC1602 (Pins 30,31,33, 34,36,37,39,40)
Is the voltage of 0.5 Vp-p?
No
Replace IC1602.
Yes
JA1601 (Pins 1,3,4,6,7,9,10,12)
Is the voltage of 0.5 Vp-p?
No
Check the L1609 - L1612.
Yes
To Step 4-4

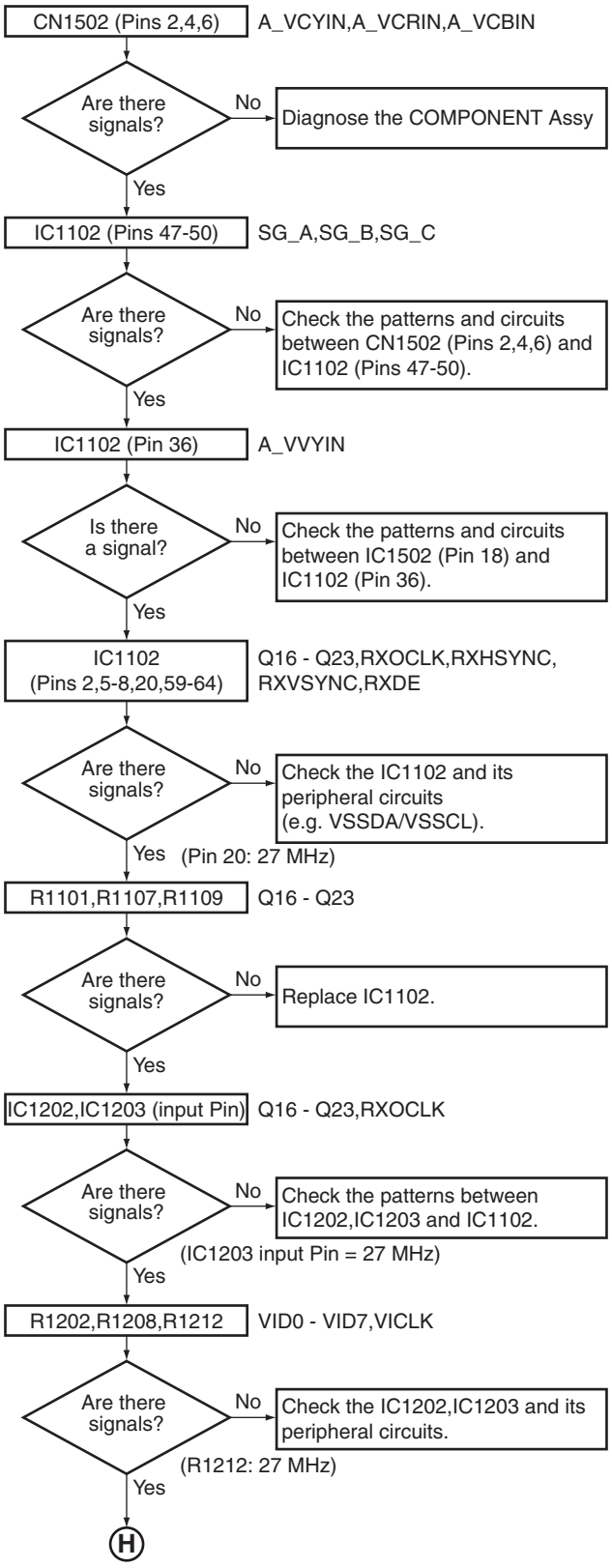
Step 4-4: Composite IN-HDMI OUT (DVC:ON)

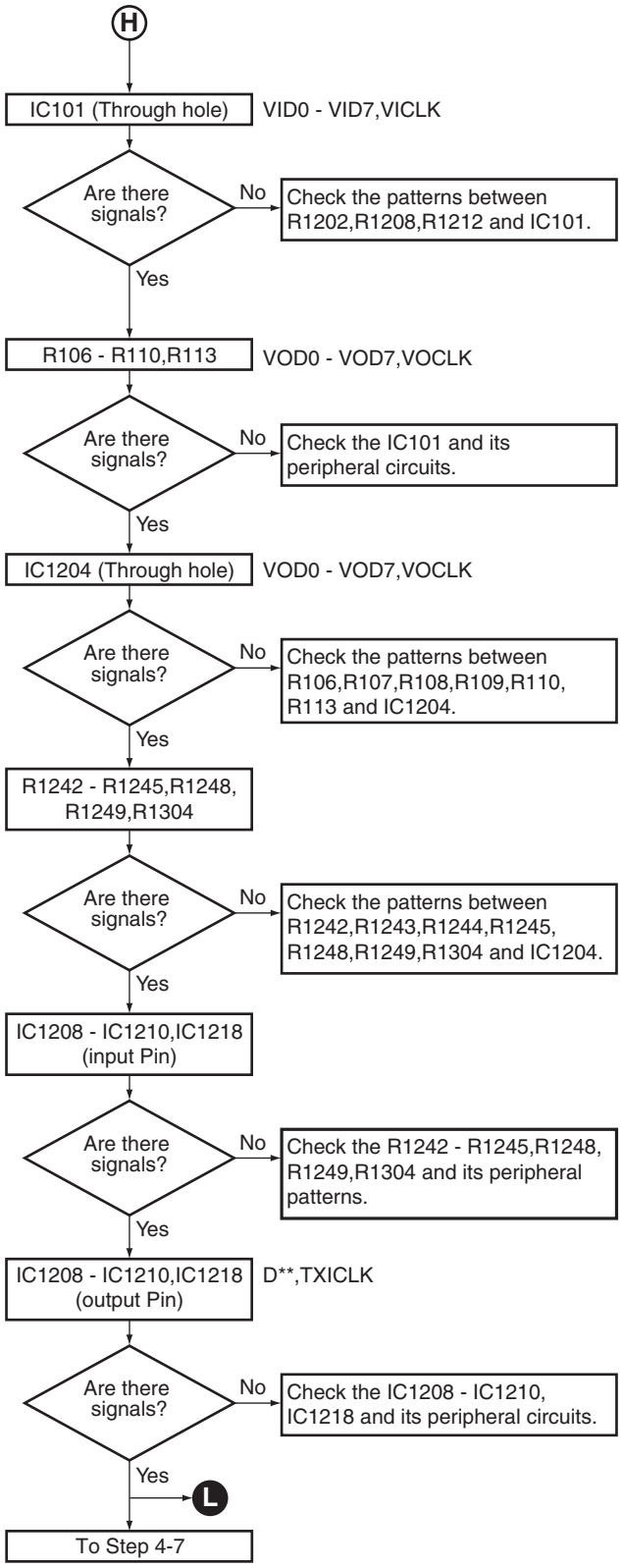


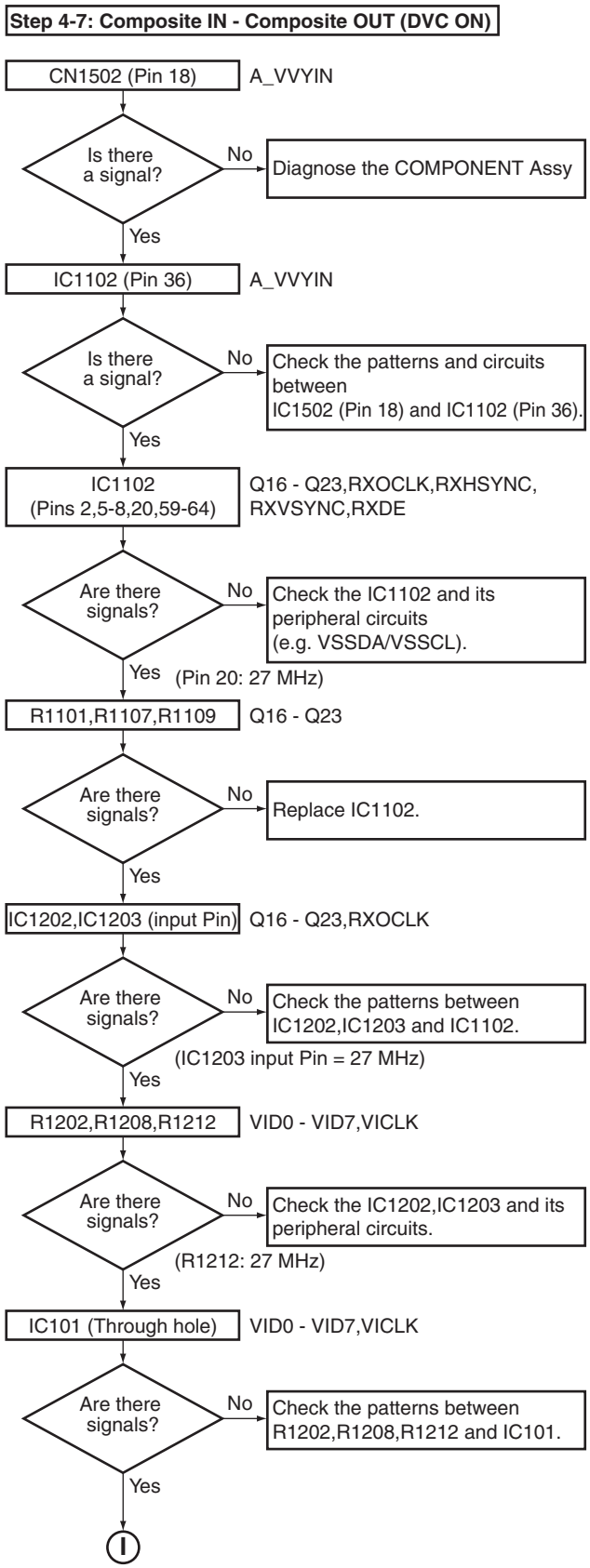
Step 4-5: Component IN (more than 480p) - HDMI OUT (DVC ON)

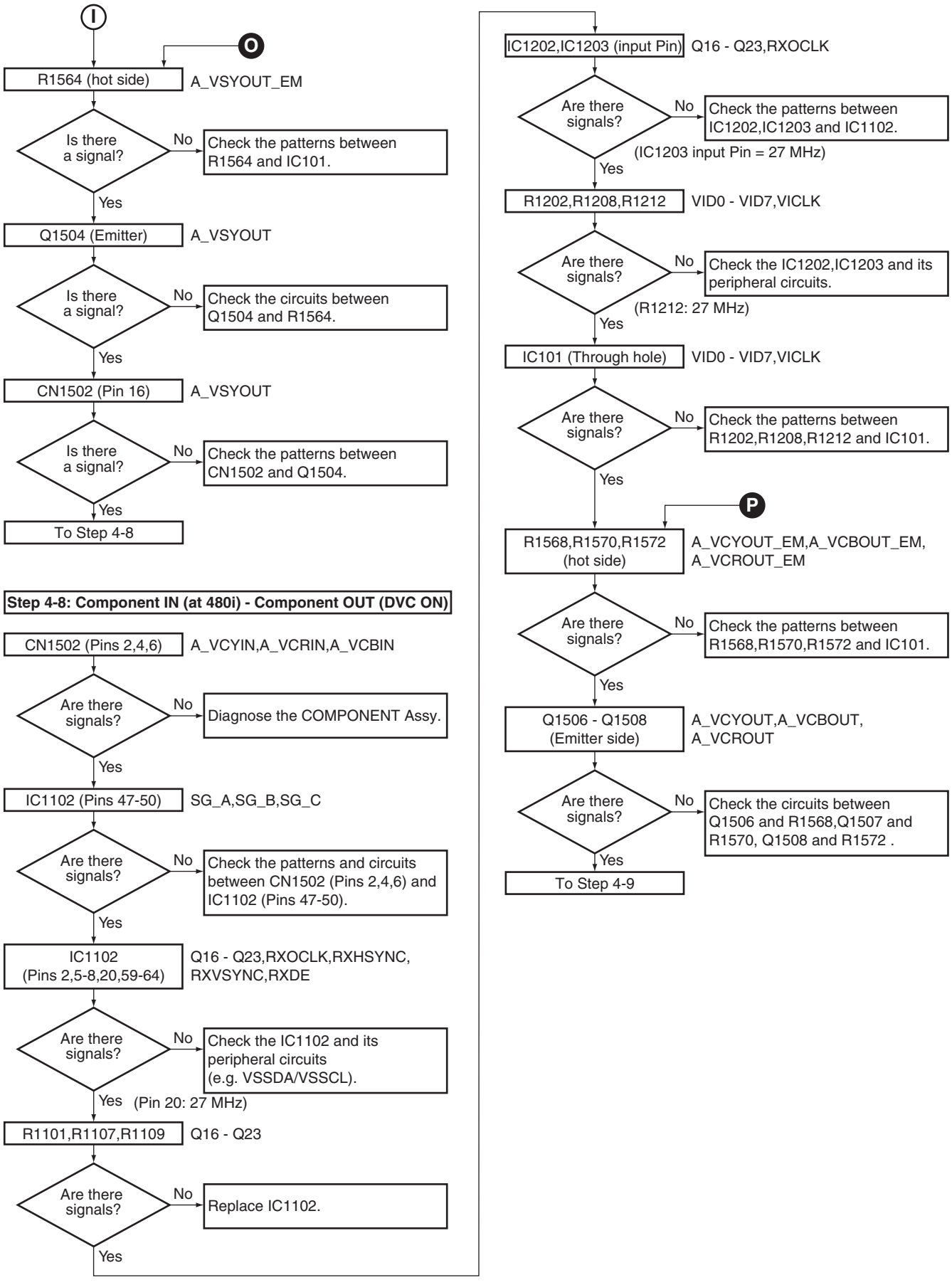


Step 4-6: Component IN (at 480i) - HDMI OUT (DVC ON)

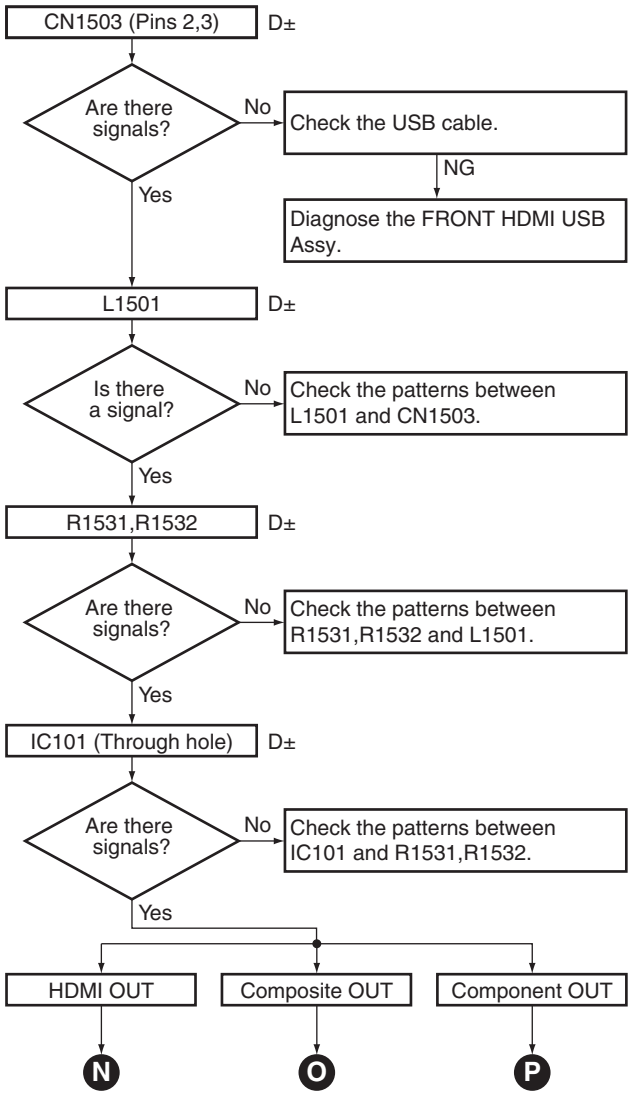



H
IC101 (Through hole)
VID0 - VID7,VICLK
Are there signals?
No
Check the patterns between R1202,R1208,R1212 and IC101.
Yes
R106 - R110,R113
VOD0 - VOD7,VOCLK
Are there signals?
No
Check the IC101 and its peripheral circuits.
Yes
IC1204 (Through hole)
VOD0 - VOD7,VOCLK
Are there signals?
No
Check the patterns between R106,R107,R108,R109,R110, R113 and IC1204.
Yes
R1242 - R1245,R1248, R1249,R1304
Are there signals?
No
Check the patterns between R1242,R1243,R1244,R1245, R1248,R1249,R1304 and IC1204.
Yes
IC1208 - IC1210,IC1218 (input Pin)
Are there signals?
No
Check the R1242 - R1245,R1248, R1249,R1304 and its peripheral patterns.
Yes
IC1208 - IC1210,IC1218 (output Pin)
D**,TXICLK
Are there signals?
No
Check the IC1208 - IC1210, IC1218 and its peripheral circuits.
Yes
L
To Step 4-7


Step 4-7: Composite IN - Composite OUT (DVC ON)
CN1502 (Pin 18)
A_VVYIN
Is there a signal?
No
Diagnose the COMPONENT Assy
Yes
IC1102 (Pin 36)
A_VVYIN
Is there a signal?
No
Check the patterns and circuits between IC1502 (Pin 18) and IC1102 (Pin 36).
Yes
IC1102 (Pins 2,5-8,20,59-64)
Q16 - Q23,RXOCLK,RXHSYNC, RXVSYNC,RXDE
Are there signals?
No
Check the IC1102 and its peripheral circuits (e.g. VSSDA/VSSCL).
Yes
(Pin 20: 27 MHz)
R1101,R1107,R1109
Q16 - Q23
Are there signals?
No
Replace IC1102.
Yes
IC1202,IC1203 (input Pin)
Q16 - Q23,RXOCLK
Are there signals?
No
Check the patterns between IC1202,IC1203 and IC1102.
(IC1203 input Pin = 27 MHz)
Yes
R1202,R1208,R1212
VID0 - VID7,VICLK
Are there signals?
No
Check the IC1202,IC1203 and its peripheral circuits.
(R1212: 27 MHz)
Yes
IC101 (Through hole)
VID0 - VID7,VICLK
Are there signals?
No
Check the patterns between R1202,R1208,R1212 and IC101.
Yes
I


I
O
R1564 (hot side)
A_VSYOUT_EM
Is there a signal?
No
Check the patterns between R1564 and IC101.
Yes
Q1504 (Emitter)
A_VSYOUT
Is there a signal?
No
Check the circuits between Q1504 and R1564.
Yes
CN1502 (Pin 16)
A_VSYOUT
Is there a signal?
No
Check the patterns between CN1502 and Q1504.
Yes
To Step 4-8
Step 4-8: Component IN (at 480i) - Component OUT (DVC ON)
CN1502 (Pins 2,4,6)
A_VCYIN,A_VCRIN,A_VCBIN
Are there signals?
No
Diagnose the COMPONENT Assy.
Yes
IC1102 (Pins 47-50)
SG_A,SG_B,SG_C
Are there signals?
No
Check the patterns and circuits between CN1502 (Pins 2,4,6) and IC1102 (Pins 47-50).
Yes
IC1102 (Pins 2,5-8,20,59-64)
Q16 - Q23,RXOCLK,RXHSYNC, RXVSYNC,RXDE
Are there signals?
No
Check the IC1102 and its peripheral circuits (e.g. VSSDA/VSSCL).
Yes
(Pin 20: 27 MHz)
R1101,R1107,R1109
Q16 - Q23
Are there signals?
No
Replace IC1102.
Yes
IC1202,IC1203 (input Pin)
Q16 - Q23,RXOCLK
Are there signals?
No
Check the patterns between IC1202,IC1203 and IC1102.
(IC1203 input Pin = 27 MHz)
Yes
R1202,R1208,R1212
VID0 - VID7,VICLK
Are there signals?
No
Check the IC1202,IC1203 and its peripheral circuits.
(R1212: 27 MHz)
Yes
IC101 (Through hole)
VID0 - VID7,VICLK
Are there signals?
No
Check the patterns between R1202,R1208,R1212 and IC101.
Yes
P
R1568,R1570,R1572 (hot side)
A_VCYOUT_EM,A_VCBOUT_EM, A_VCROUT_EM
Are there signals?
No
Check the patterns between R1568,R1570,R1572 and IC101.
Yes
Q1506 - Q1508 (Emitter side)
A_VCYOUT,A_VCBOUT, A_VCROUT
Are there signals?
No
Check the circuits between Q1506 and R1568,Q1507 and R1570, Q1508 and R1572 .
Yes
To Step 4-9

Step 4-9: USB/iPod



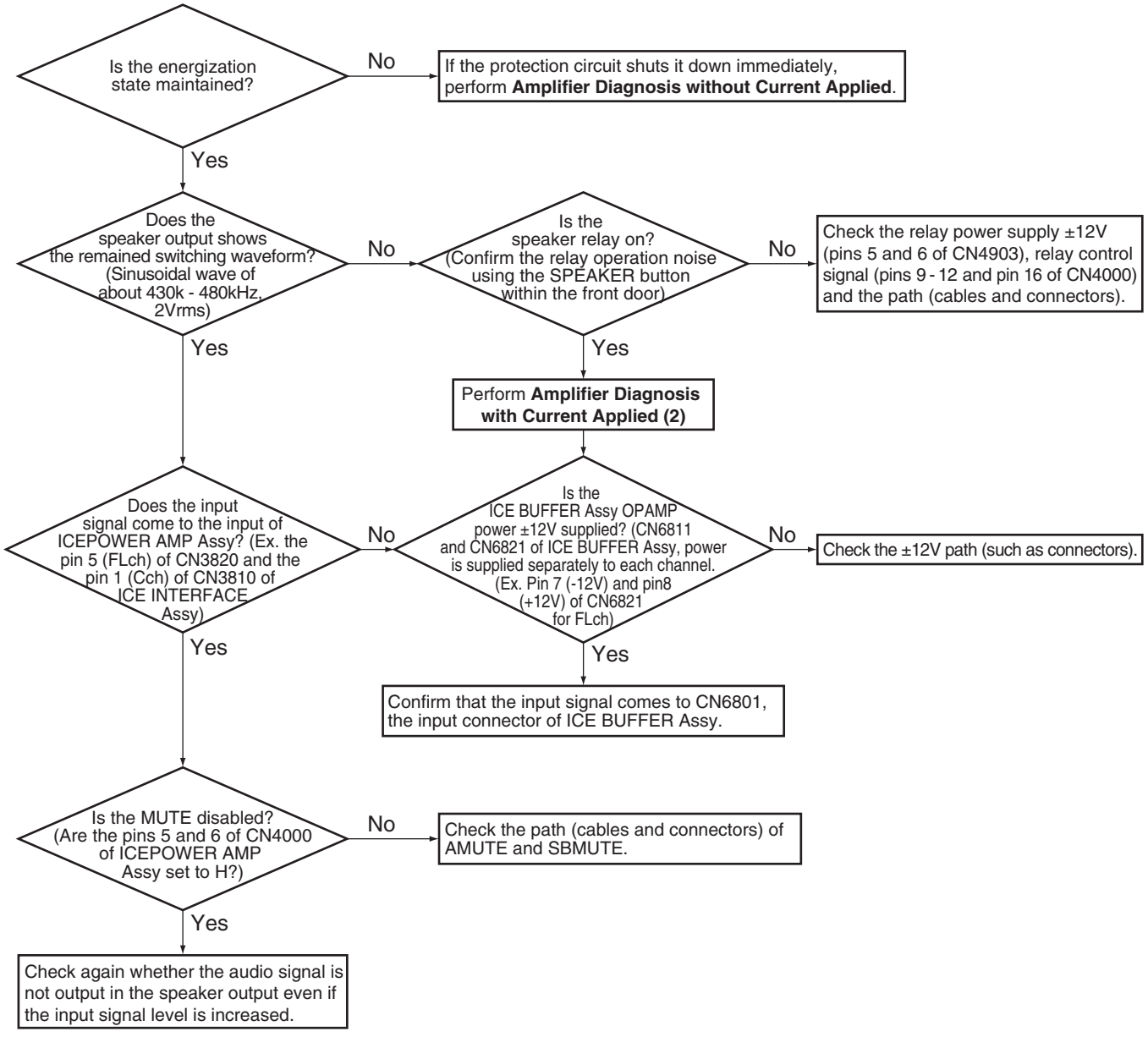
■ Power Amp Section Troubleshooting

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).

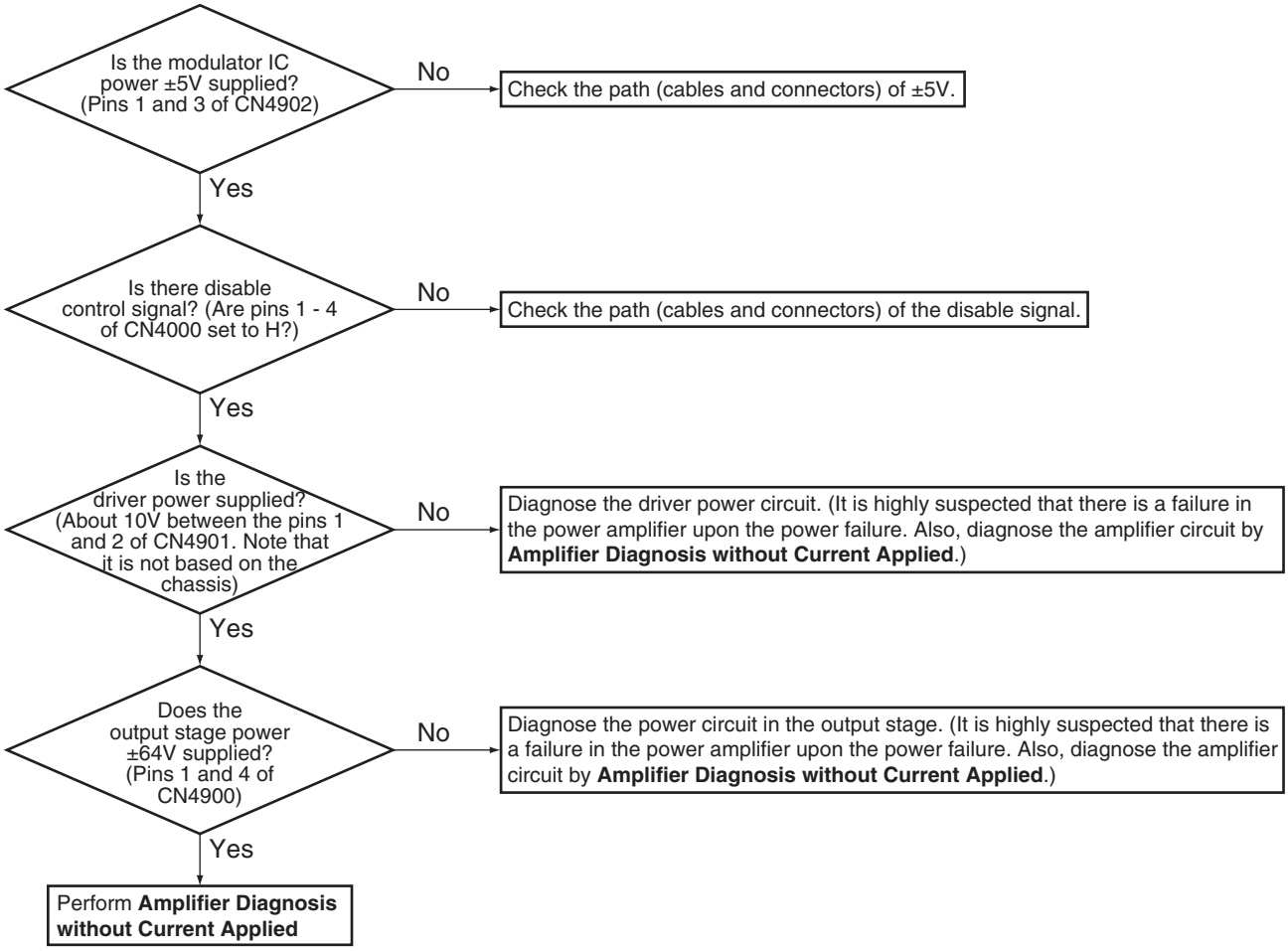
When no sound is produced with a specific function or sound mode, it is not caused by a failure in the power amplifier block. When there is a failure in the power amplifier block, no sound is produced with every function.
It is recommended to set the speaker setting to "LARGE" for all the channels and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

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)

5.2 CIRCUIT DESCRIPTION

[1] Protection Circuit Process List

B REG Power Supply

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

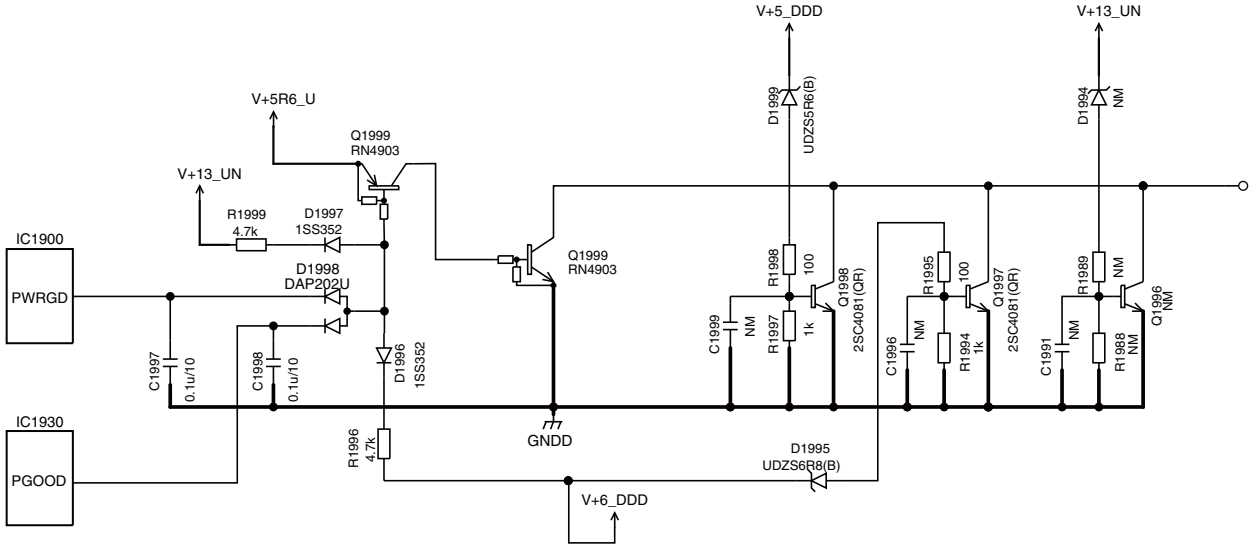
Amplifier Circuit

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

DIGITAL MAIN Power Supply Failure Detection

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

F DIGITAL MAIN ASSY



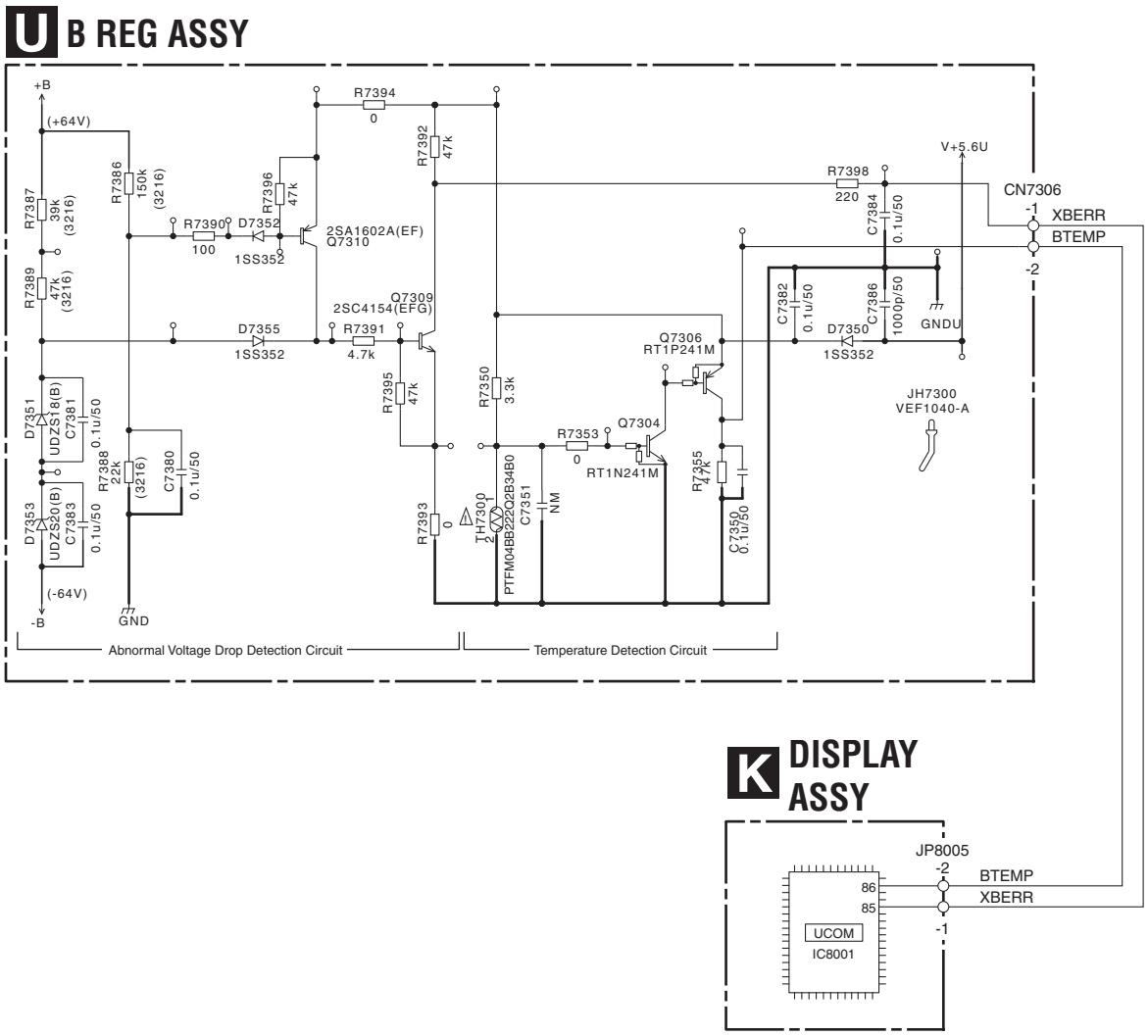
(*1) Conditions when XVDDERR becomes "L"

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

[How to Enter Release Mode]

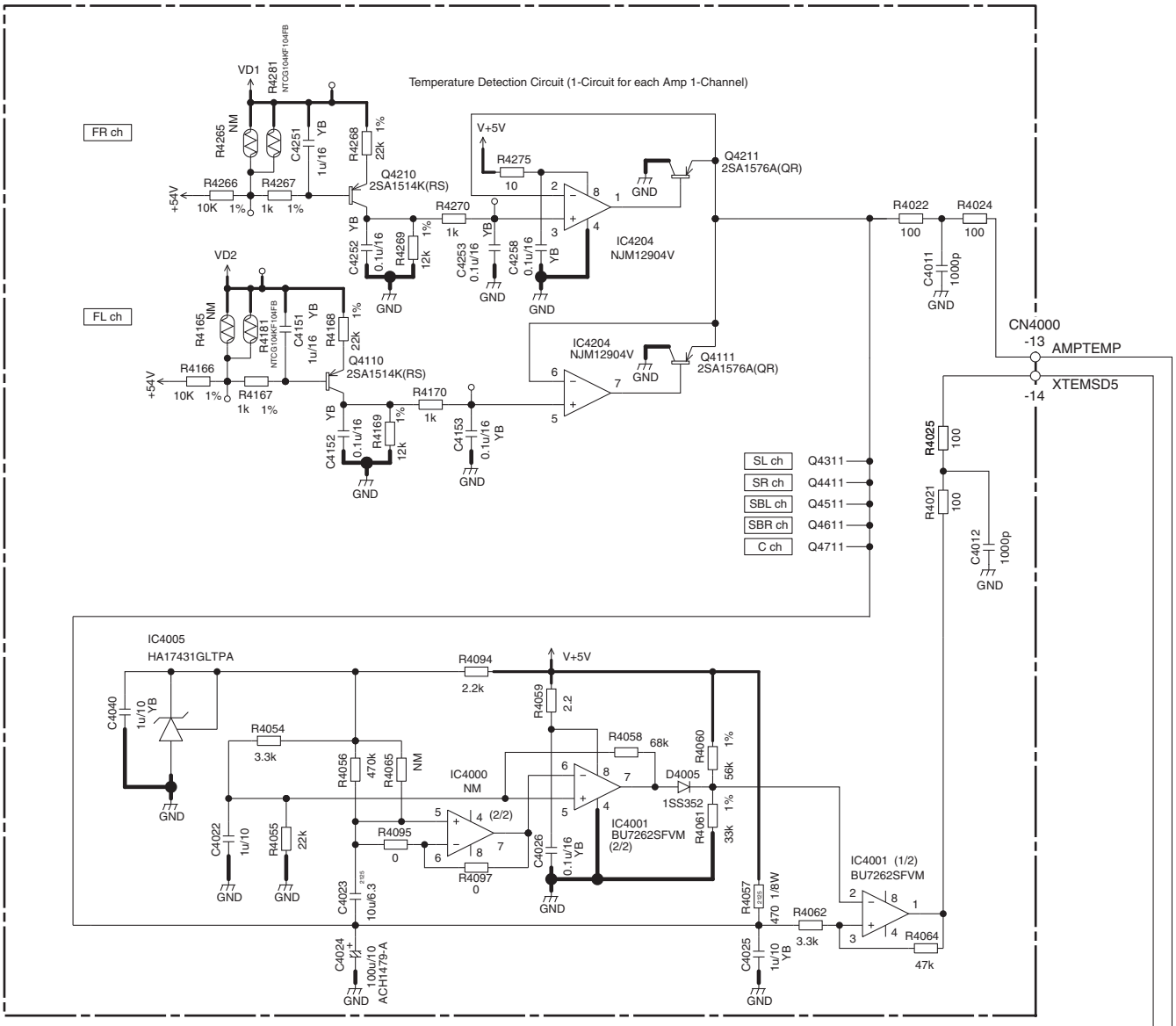
During Standby mode, simultaneously press and hold the "?" and "MULTI-ZONE ON/OFF" keys for 5 seconds.

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



Overheat Detection

P ICEPOWER AMP ASSY

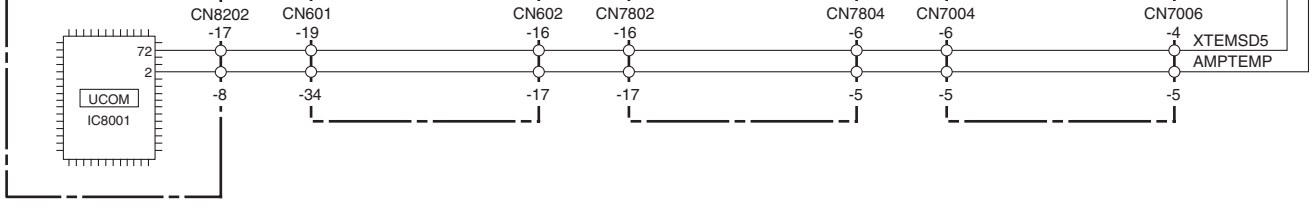


K DISPLAY ASSY

F DIGITAL MAIN ASSY

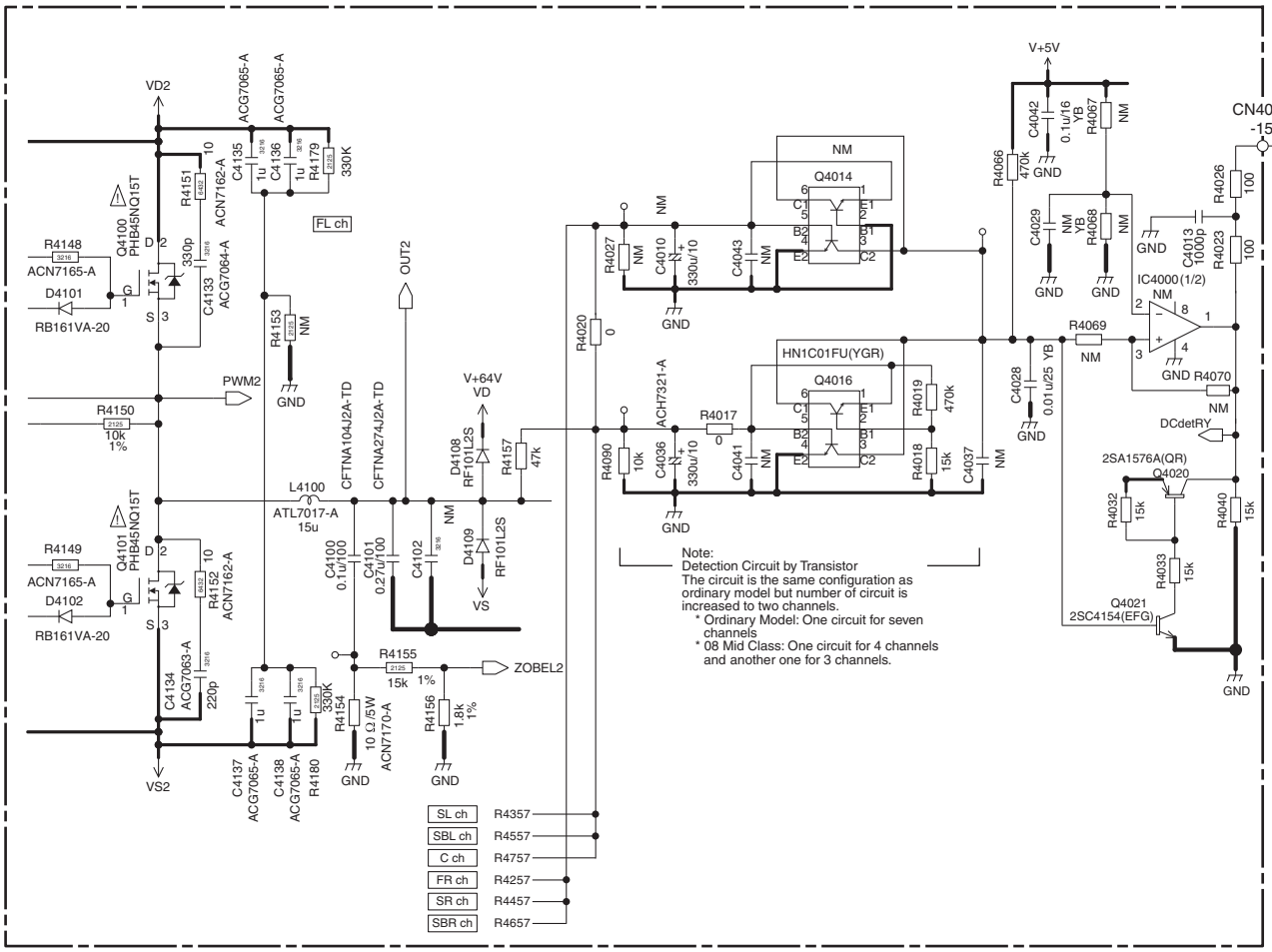
W CONNECT ASSY

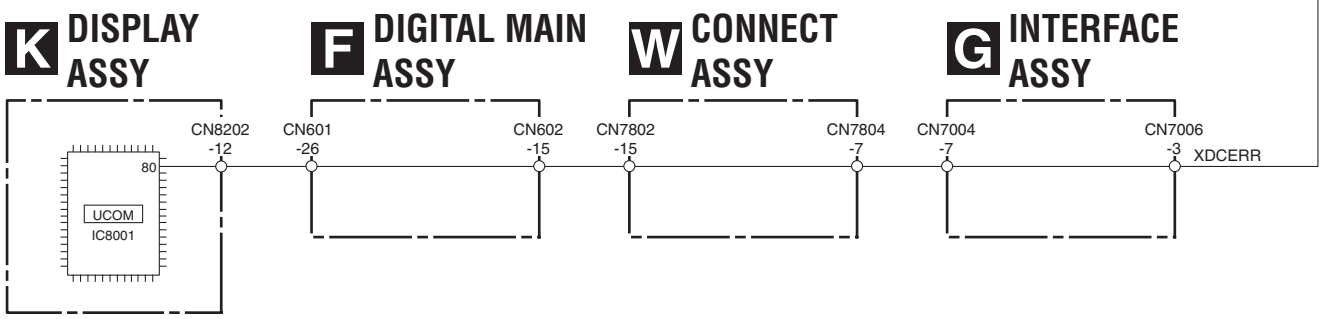
G INTERFACE ASSY



DC Detection

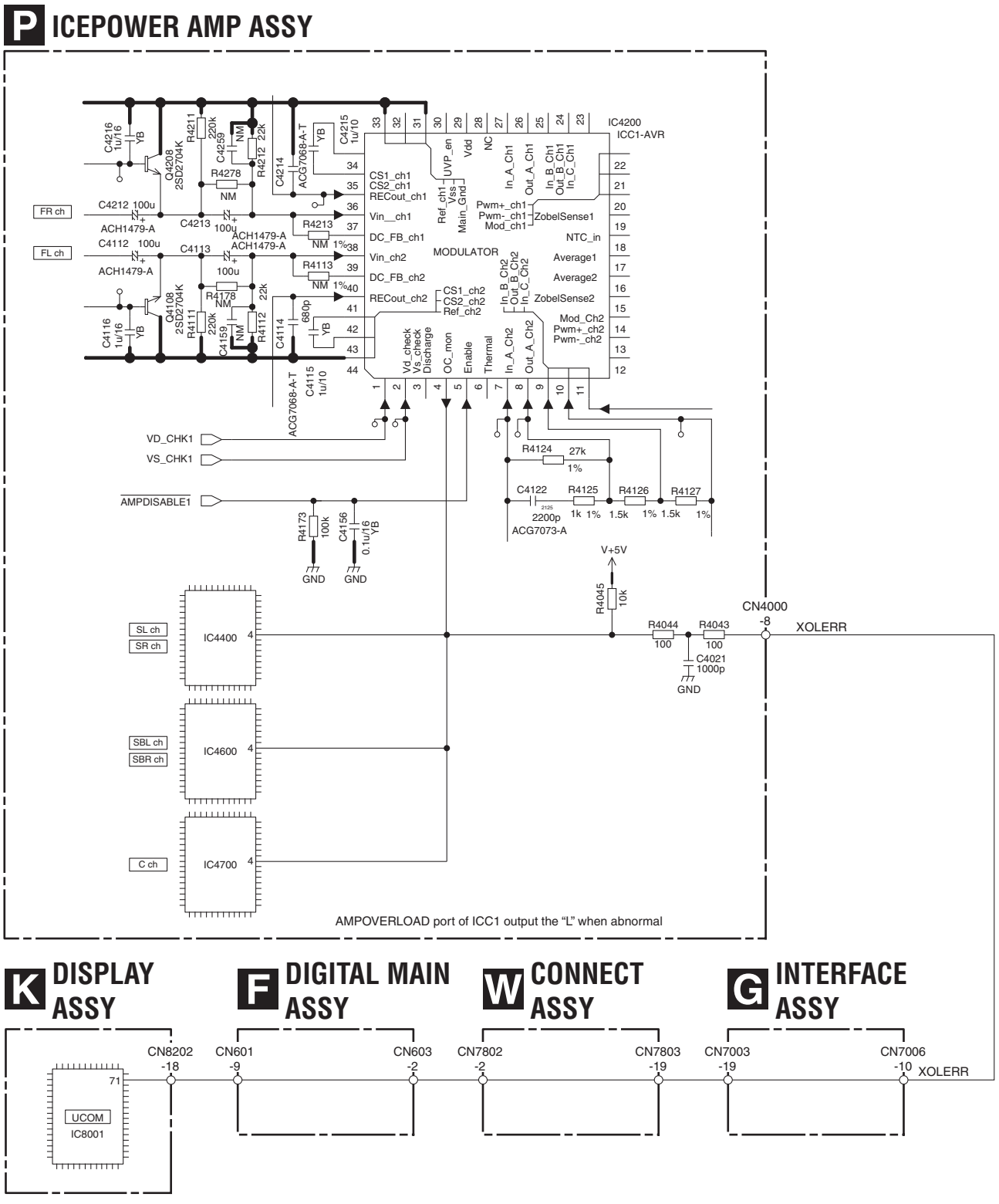
P ICEPOWER AMP ASSY



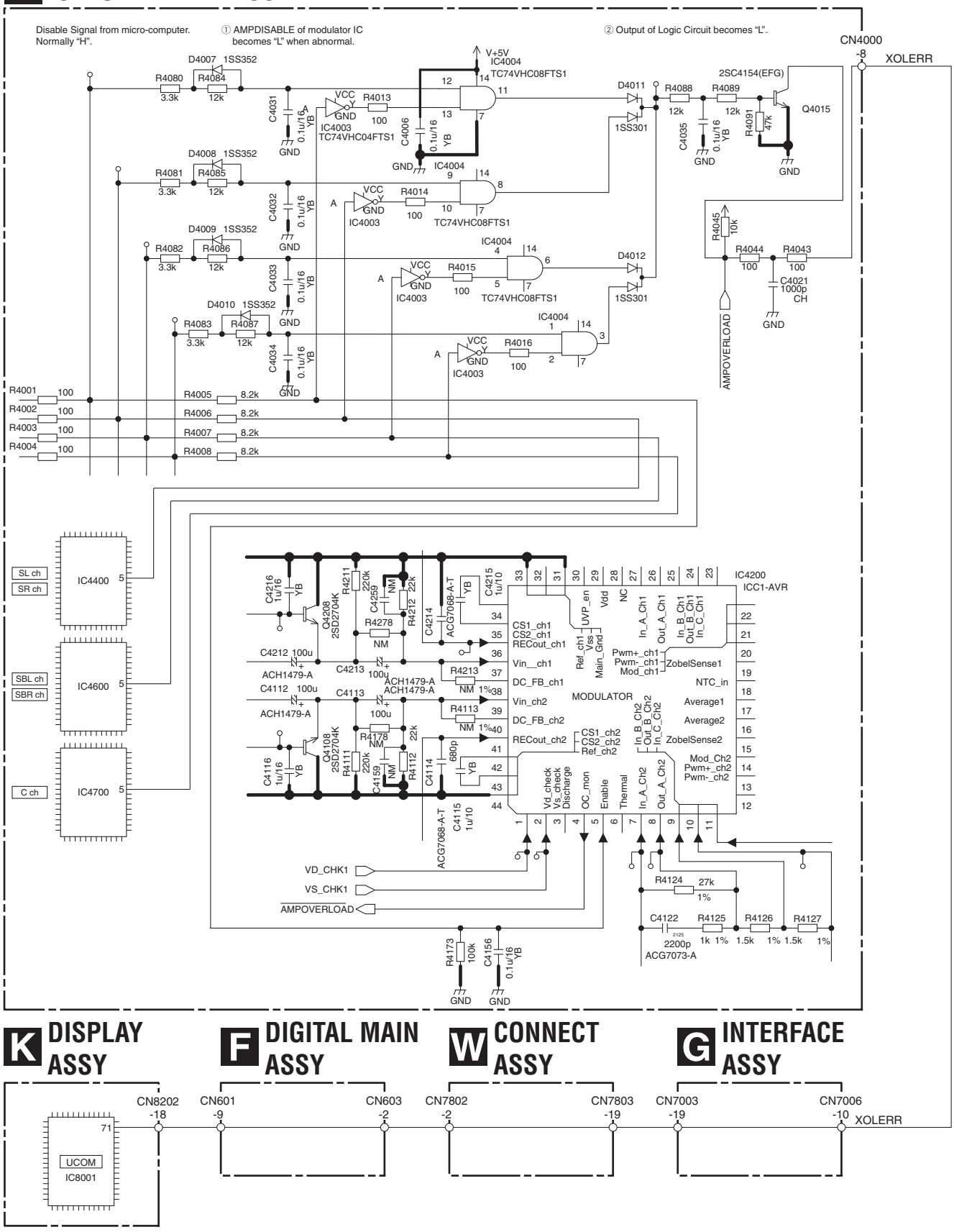


Zobel Detection

Over Current Detection of MOS FET in Output Stage



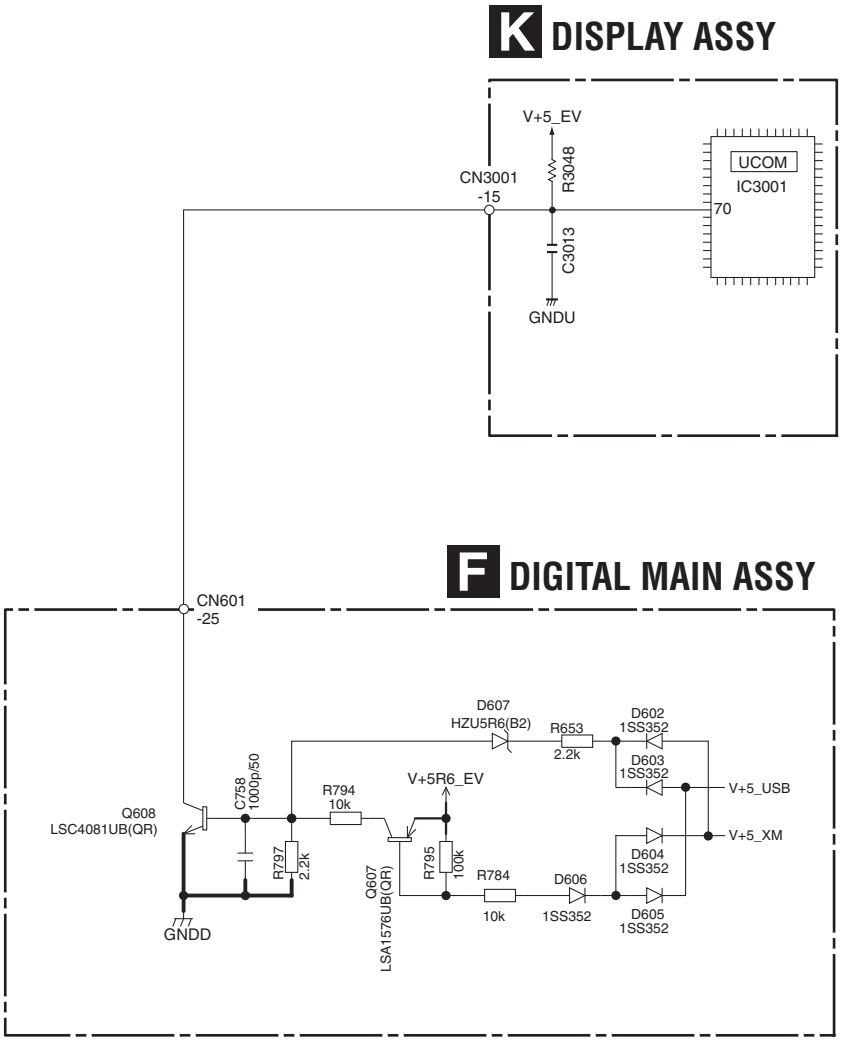
Low Voltage Detection for Amplifier Power Supply



[2] Protection Circuit Process List (XVDDERR)

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

■ XVDDERR Circuit



[3] Error Indications

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

6. SERVICE MODE
6.1 TEST MODE

[1] Detected protection history

[Purpose]

The numbers of detections for various protection processes are displayed.

[How to enter/exit]

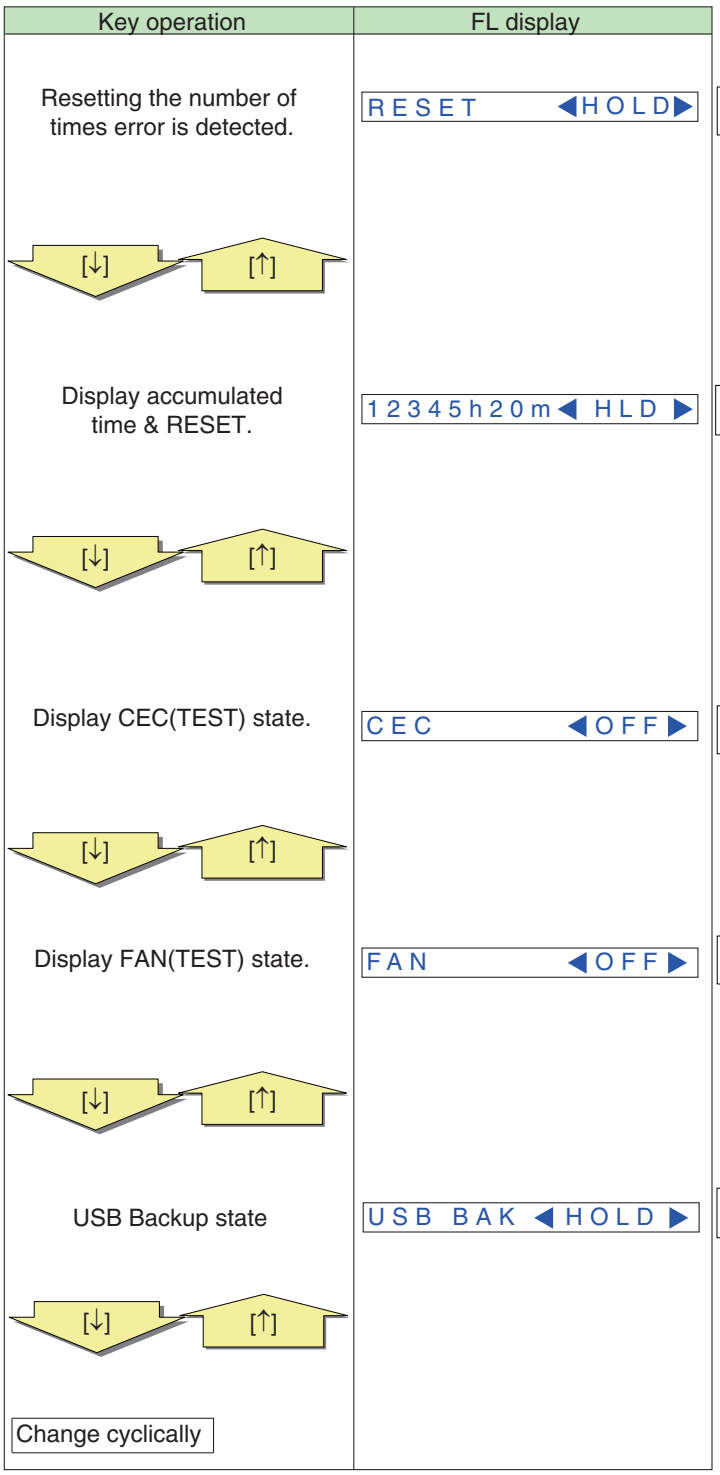
Turn off the power to this unit by setting the main volume level to "---dB" and Multi-zone to "OFF".
During Standby mode, simultaneously press and hold "MULTI-ZONE ON/OFF" and "ENTER" keys for 5 seconds to enter this mode.

[Basic operations]

Key operation	FL display
Display number of times DC is detected.	D C : ＊＊＊
[↓] [↑]	
Display number of times OVERLOAD is detected.	O L : ＊＊＊
[↓] [↑]	
Display number of times COMBINATION is detected. (Detects DC and OVERLOAD simultaneously)	C O M : ＊＊＊
[↓] [↑]	
Display number of times FAN STOP is detected.	F A N : ＊＊＊
[↓] [↑]	
Display number of times AMP overheat is detected.	S T M P : ＊＊＊
[↓] [↑]	
Display number of times Digital Power abnormality is detected.	D E R R : ＊＊＊
[↓] [↑]	
Display number of times B REG power supply overheat is detected.	B T M P : ＊＊＊
[↓] [↑]	
Display number of times B REG power supply failure is detected.	B E R R : ＊＊＊
[↓] [↑]	

Front Panel Key

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



Resetting the number of times error is detected

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

Resetting the accumulated time

Key operation	FL display
[←][→]	12345h 20m ◀CL?▶
[ENTER]	0h 0m ◀RST▶
↓ Continued	

Display CEC(TEST) state.

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

Key operation	FL display
[←][→]	FAN ◀ ON ▶
↓ Change cyclically	

Saving and Loading of USB backup state.

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

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

[Description]

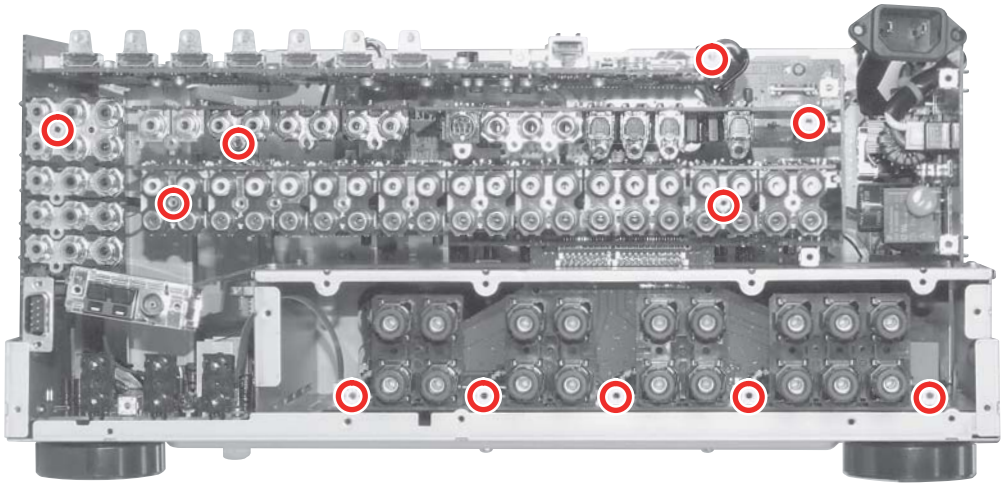
CEC TEST : The function for making the HDMI output terminal to output 1 kHz square wave. If the square wave is output, the CEC line is considered to be normal.

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

7. DISASSEMBLY

Ground Points

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

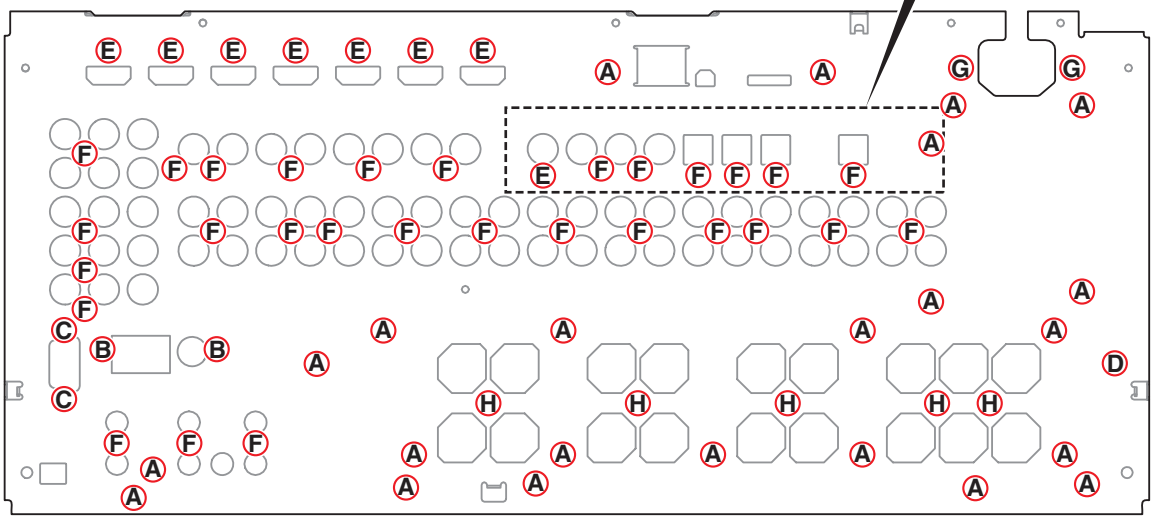


Screws for Rear Panel

Ⓐ ABA1011 	Ⓑ ABA1207 	Ⓒ ABA7078 	Ⓓ BBZ30P060FCC 
Ⓔ BMZ30P040FTB 	Ⓕ BPZ30P080FTB 	Ⓖ CBZ30P080FTB 	Ⓗ BPZ30P100FTC 

SC-35/UXJCB, SC-1525-K/CUXJ only




E E E E E E E A A G G A A A F F F F F F F F E F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F C B B C A A A

Note :

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

(2) For performing the diagnosis shown below, the following jigs for service is required.

- 39P FFC (GGD1679)
- 15P FFC (GGD1680)
- 30P board to board extension jig cable (GGD1682) x 2
- 24P + 14P board to board extension jig cable (GGD1683)
- 21P + 15P board to board extension jig cable (GGD1679)
- 20P + 20P board to board extension jig cable (GGD1677)
- 19P board to board extension jig cable (GGD1577)
- 5P PH Housing Assy (GGD1594)

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

Disassembly

[1] Front Section

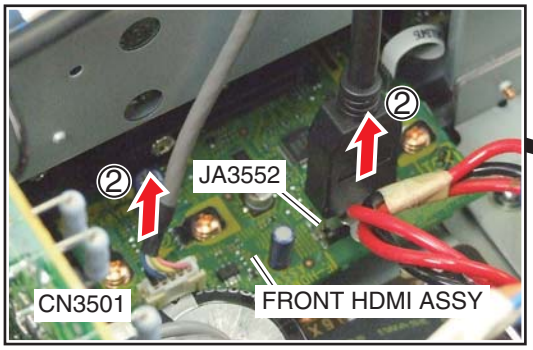
Remove the Bonnet by removing the 22 screws.

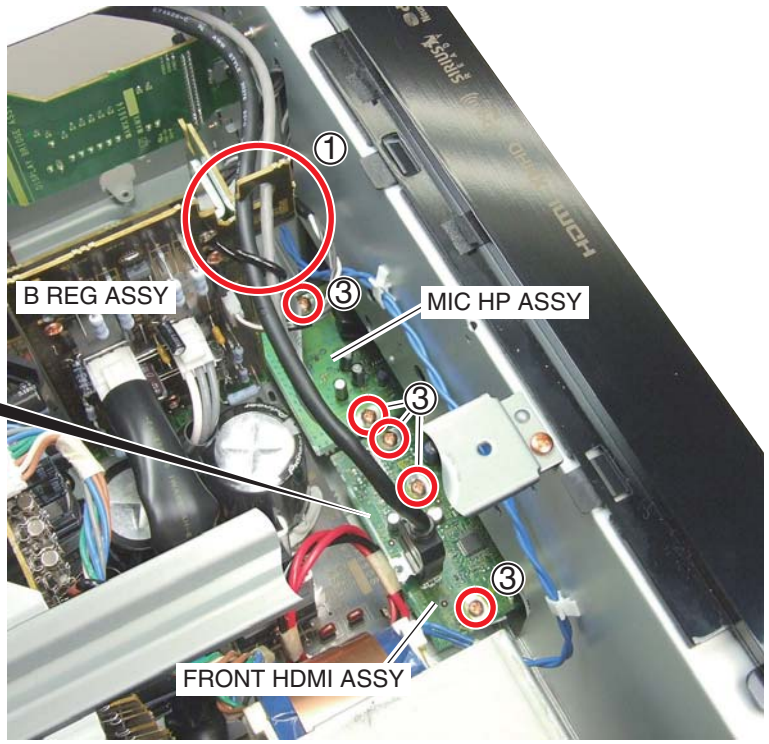
[1-1] Front Section

(1) Release the two cables from the B REG ASSY.

(2) Disconnect the two connectors.

(3) Remove the five screws. (BBZ30P060FCC)

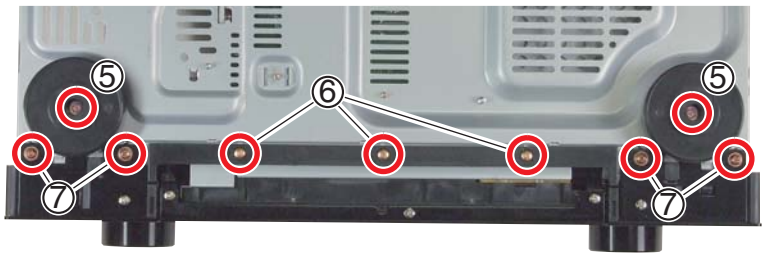




(4) Remove the three screws. (BBT30P080FCC)

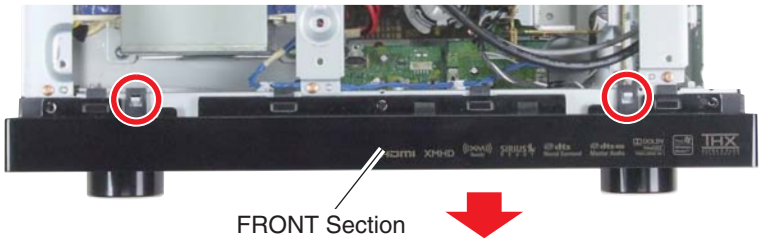


(5) Remove the two screws (ABA7149) and the two Insulators.
(6) Remove the three screws. (BBZ30P060FCC)
(7) Remove the fore screws. (ABA1193)



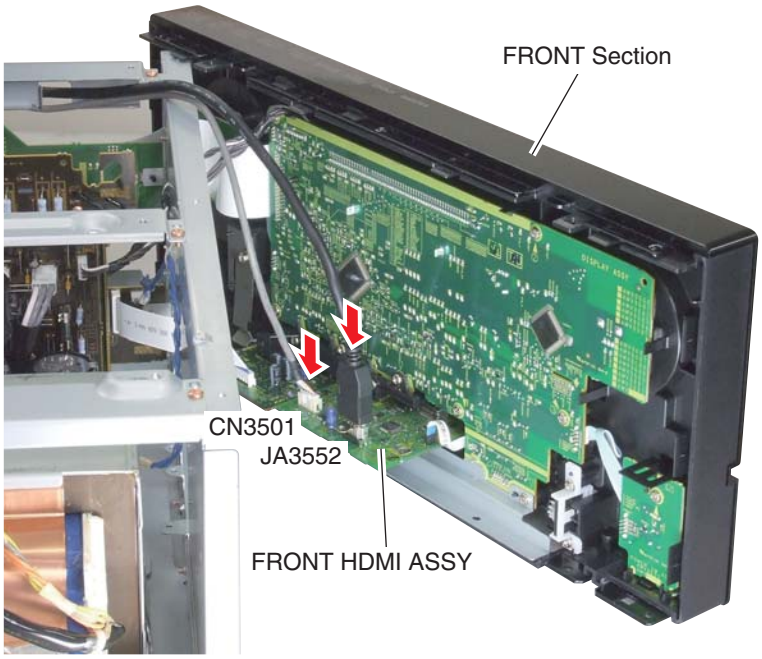
(8) Unhook the fore hooks.
(9) Remove the Front Section.





[1-2] Diagnosis

(1) Connect the two connectors.
(2) Arrange the unit as shown in the photo below.

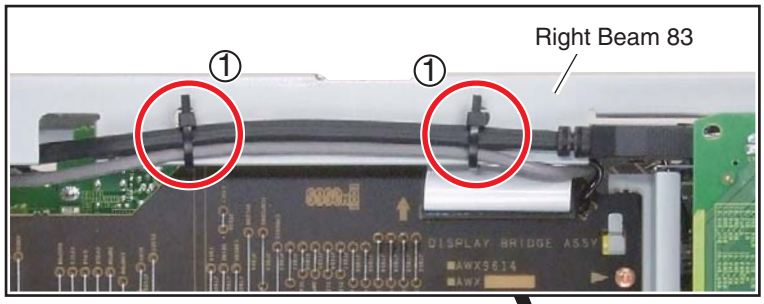


[2] Exterior Section

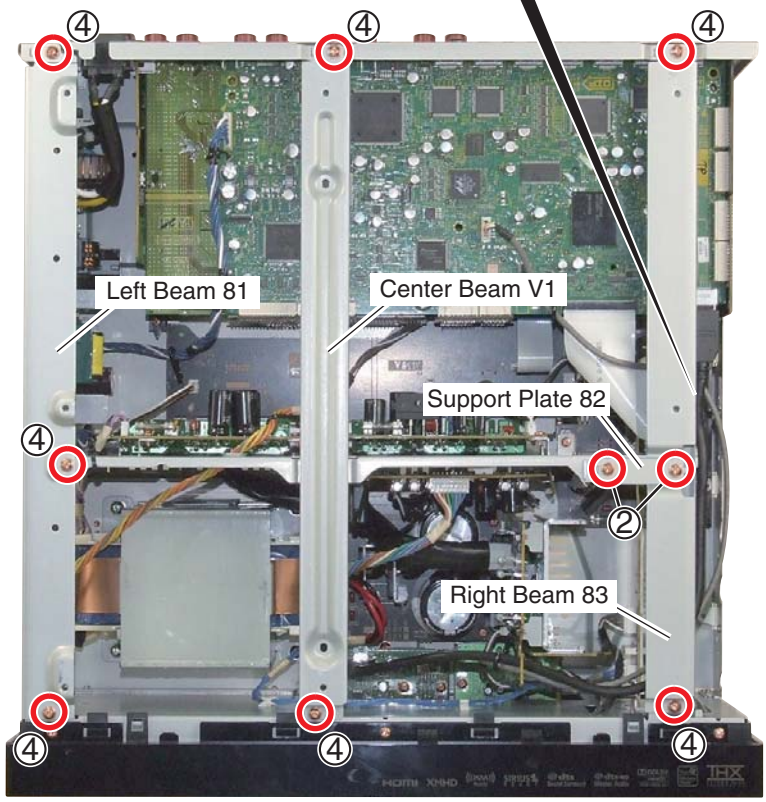
Remove the Bonnet by removing the 22 screws.

---

(1) Cut the two binders.



(2) Remove the two screws. (BBZ30P060FCC)
(3) Remove the Support Plate 82.
(4) Remove the seven screws. (BBZ30P060FCC)
(3) Remove the Left Beam 81, Center Beam V1 and Right Beam 83.

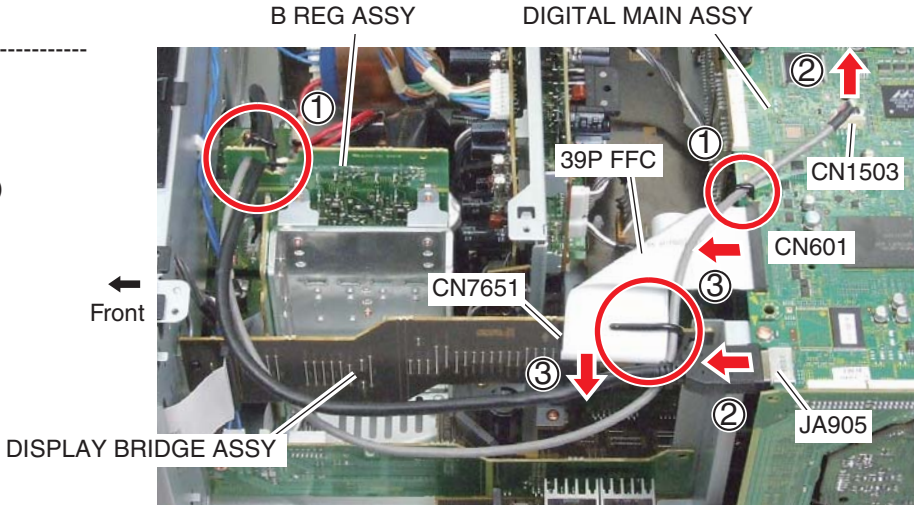


[3] Rear Section

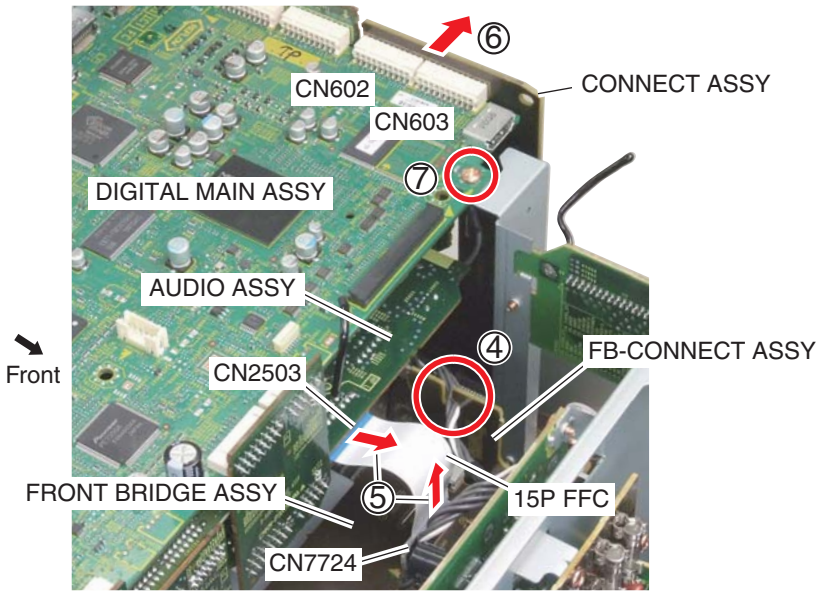
(1) Remove the Exterior Section. (Refer to the “[2] Exterior Section”)

[3-1] Rear Section

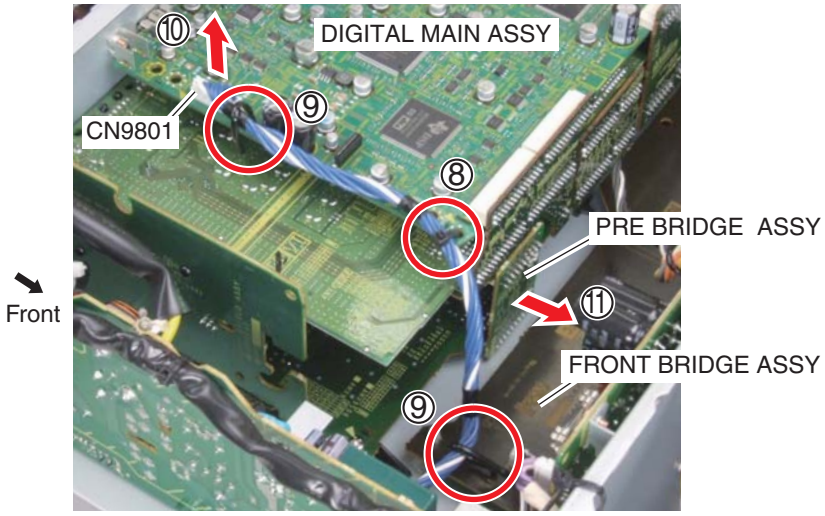
(1) Release the cables, as required.
(2) Disconnect the tow connectors.
(3) Disconnect the 39P FFC. (ADD7726)



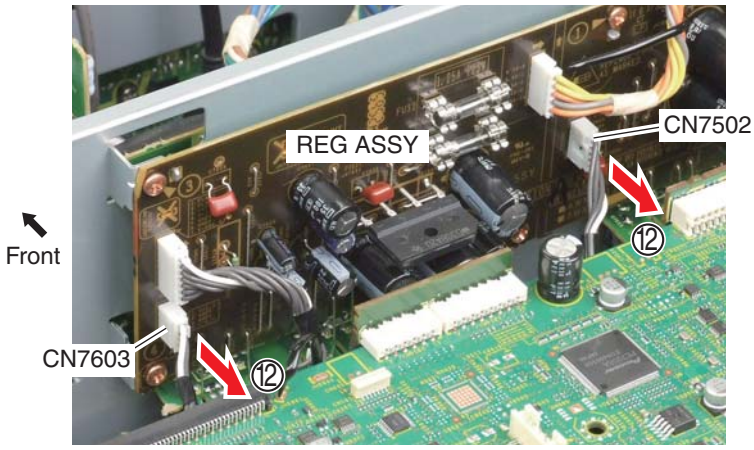
(4) Release the jumper wire from the FB-CONNECT ASSY.
(5) Disconnect the 15P FFC. (ADD7725)
(6) Disconnect the tow connectors.
(7) Remove the one screw. (BBZ30P060FCC)



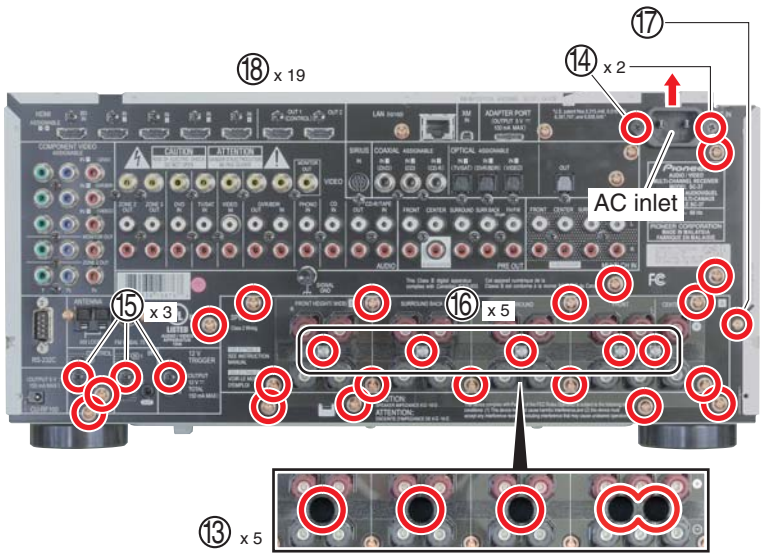
(8) Cut the binder.
(9) Release the jumper wire, as required.
(10) Disconnect the jumper wire.
(11) Remove the PRE BRIDGE ASSY.



(12) Disconnect the tow connectors.

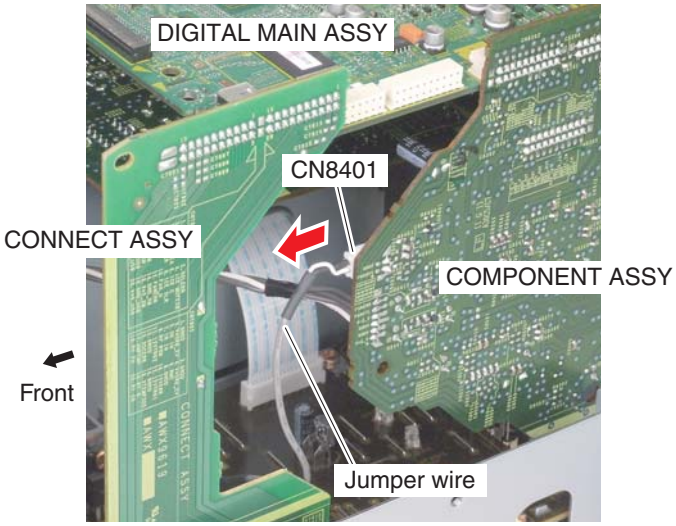


(13) Remove the five Cushion Circle 14B.
(14) Remove the two screws (CBZ30P080FTB) then remove the AC inlet.
(15) Remove the three screws. (BPZ30P080FTB)
(16) Remove the five screws. (BPZ30P100FTC)
(17) Remove the one screw. (BBZ30P060FCC)
(18) Remove the 19 screws. (ABA1011)



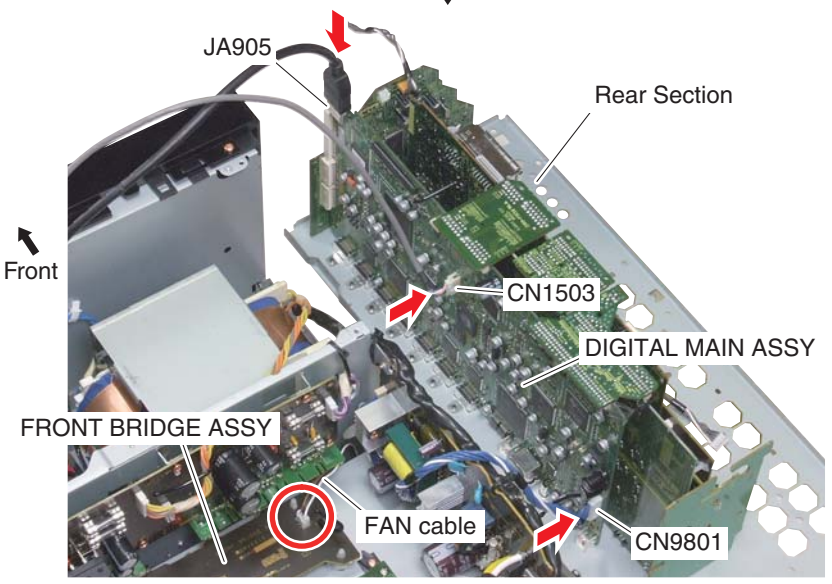
(19) Remove the Rear Section.

Note: Also disconnect the jumper wire from the COMPONENT ASSY.



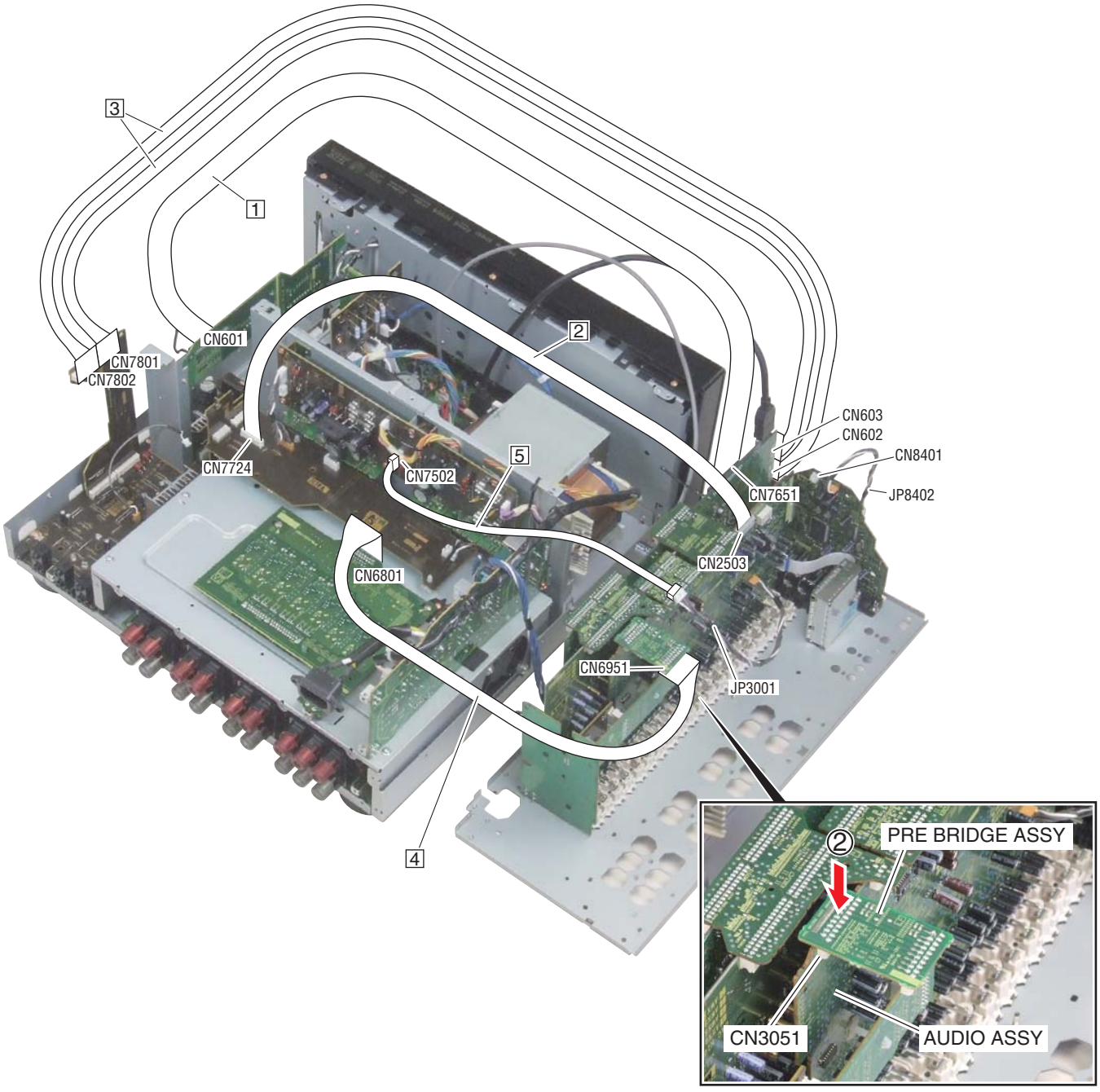
[3-2] Diagnosis

(1) Connect the three cables to the DIGITAL MAIN ASSY.



Note: When diagnosing, it is not necessary to connect FAN cable (FRONT BRIDGE ASSY: CN7726).

(2) Connect the PRE BRIDGE ASSY to the AUDIO ASSY.
(3) Connect the six extension jig cables.
(4) Connect the Rear Panel to the Chassis Ground. **(Refer to the "Ground points.")**
(5) Arrange the unit as shown in the photo below.



No.	Jig Cable	Part No.	Assy			Assy		Remarks
1	39P FFC	GGD1681	DIGITAL MAIN	CN601	<->	CN7651	DISPLAY BRIDGE	System control
2	15P FFC	GGD1680	AUDIO	CN2503	<->	CN7724	FRONT BRIDGE	Front I/O check
3	20P + 20P board to board extension jig cable	GGD1677	DIGITAL MAIN	CN602	<->	CN7802	CONNECT	Video
			DIGITAL MAIN	CN603	<->	CN7801	CONNECT	Video
4	19P board to board extension jig cable	GGD1577	PRE BRIDGE	CN6951	<->	CN6801	ICE BUFFER	Audio
5	5P PH Housing	GGD1594	AUDIO	JP3001	<->	CN7502	REG	Power supply

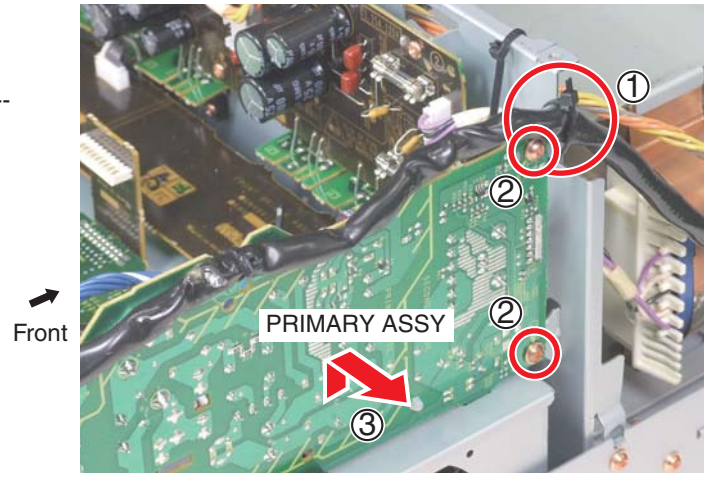
Note: When diagnosing by the above stile, it is not necessary to connect CN8401 and JP8402 on COMPONENT ASSY.

[4] ICE Section

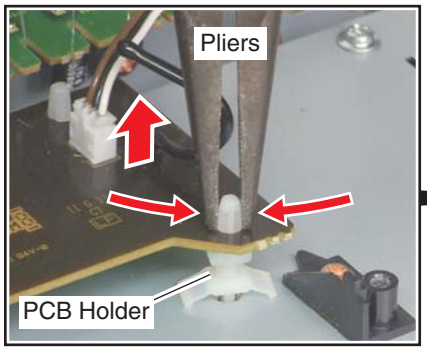
(1) Remove the Exterior Section.
(Refer to the “[2] Exterior Section”)
(2) Remove the Rear Section.
(Refer to the “[3-1] Rear Section”)

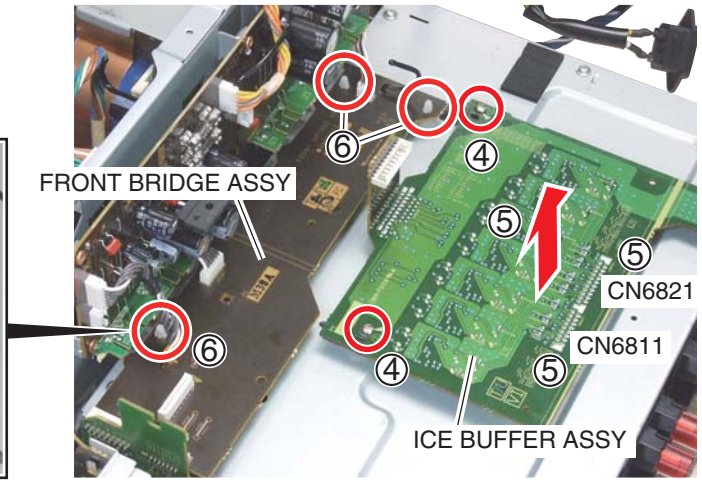
[4-1] ICE Cover 83

(1) Cut the binder.
(2) Remove the two screws. (ABA1011)
(3) Remove the PRIMARY ASSY.

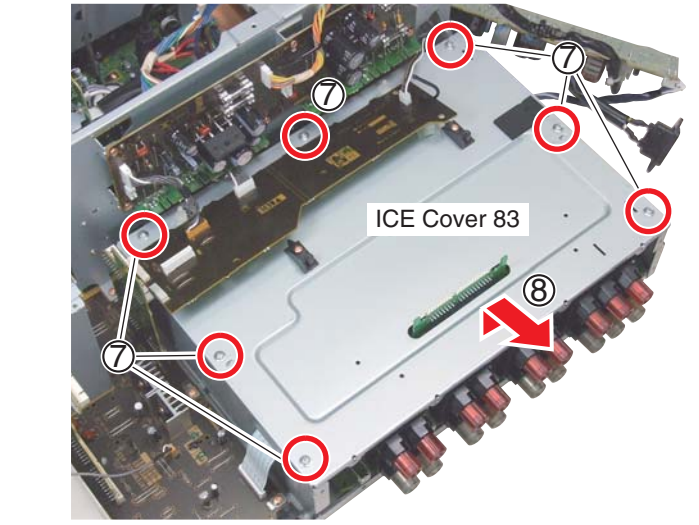


(4) Remove the two screws. (BPZ30P080FNI)
(5) Disconnect the two connectors and then remove the ICE BUFFER ASSY.
(6) Remove the FRONT BRIDGE ASSY from the three PCB Holder using Pliers.





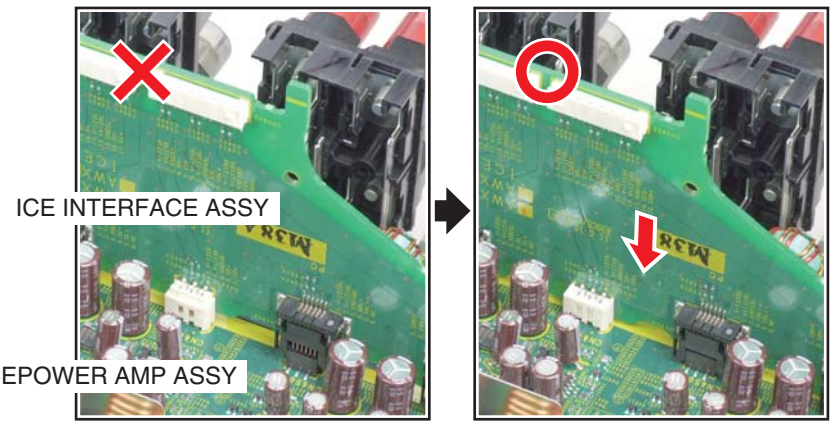
(7) Remove the seven screws.
(AMZ30P060FTC)
(8) Remove the ICE Cover 83.



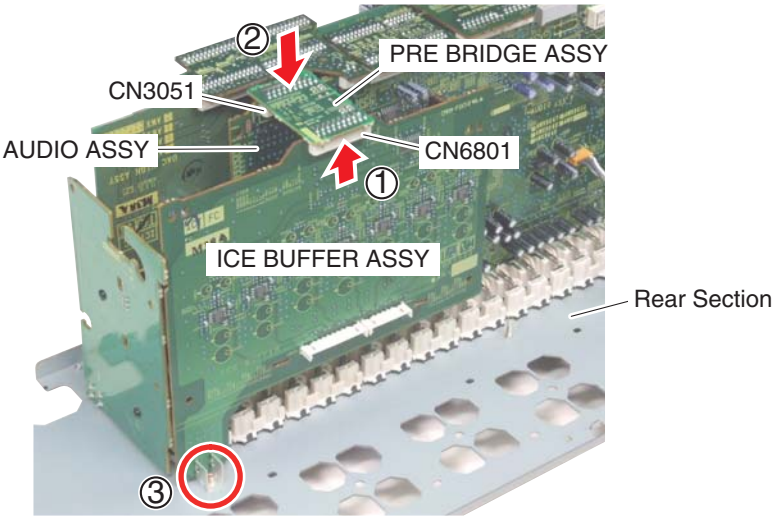
Note: To attach the ICE Cover 83 in the correct position, refer to step (9) and subsequent steps in it, "Attachment of ICE Amplifier block".

[4-2] Diagnosis

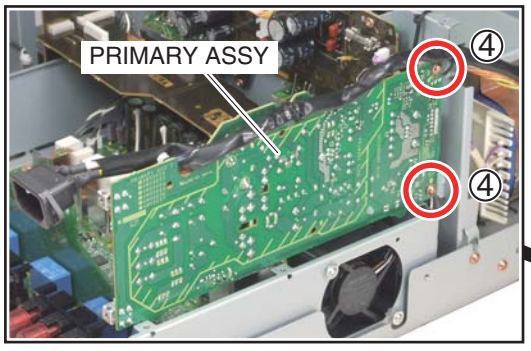
Note: If the ICE BUFFER ASSY is removed, the connectors of ICE INTERFACE Assy may be loosened.
Attach the connectors securely.

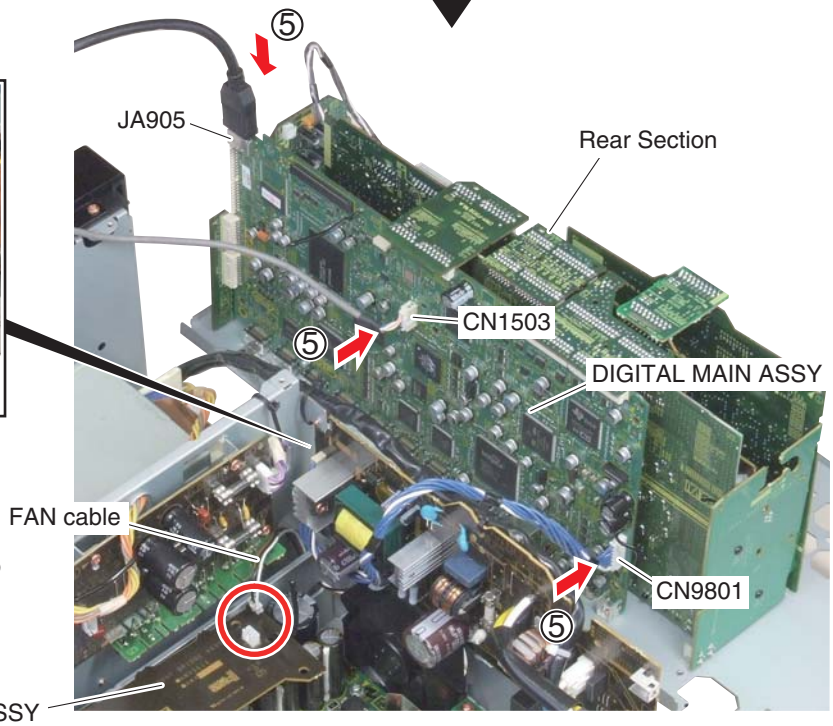


(1) Connect the ICE BUFFER ASSY to the PRE BRIDGE ASSY.
(2) Connect the PRE BRIDGE ASSY to the AUDIO ASSY.
(3) Attach the screw. (ABA1011)



(4) Temporarily attach the PRIMARY ASSY, using the two screws. (ABA1011)

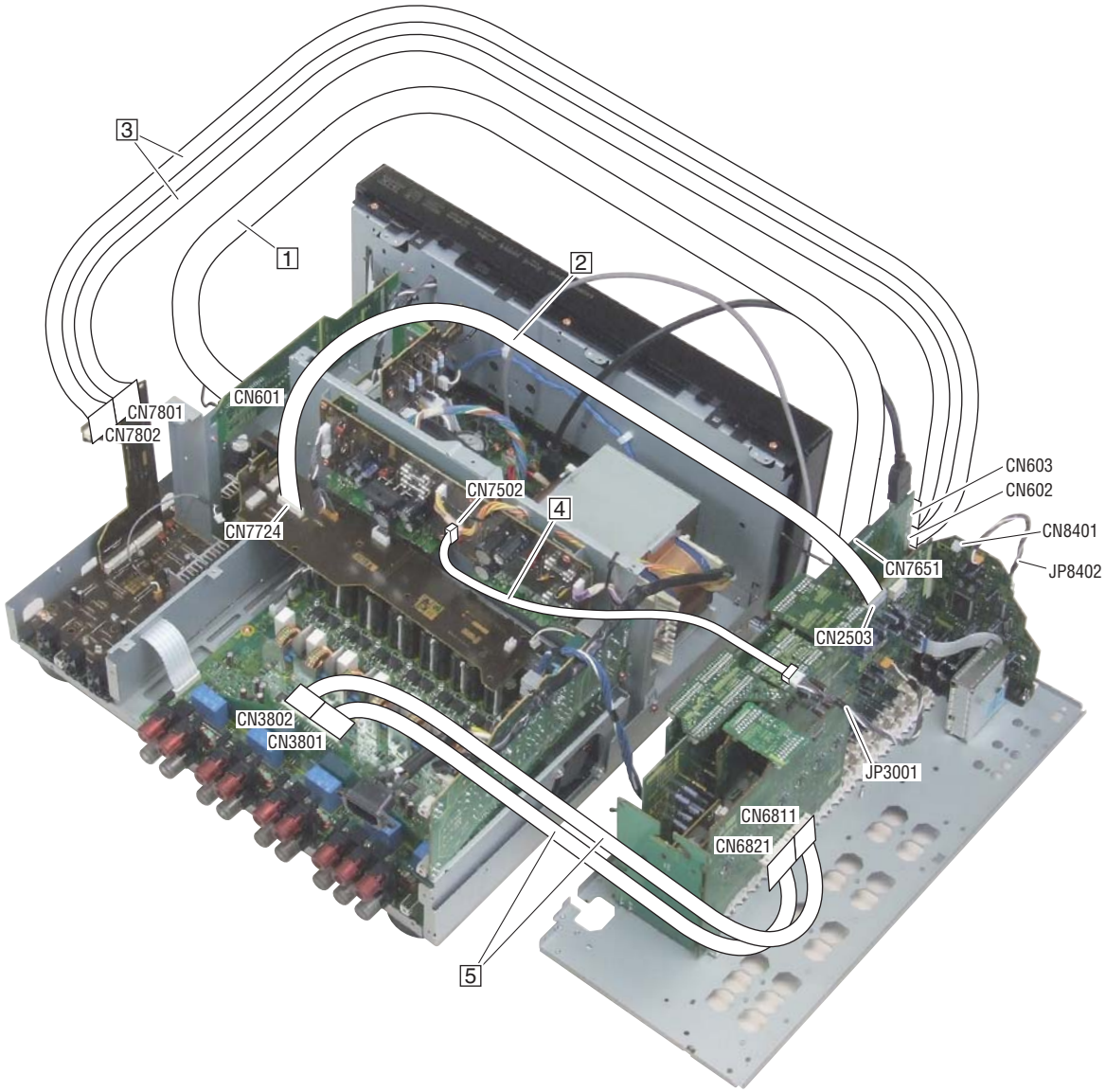




(5) Connect the three cables to the DIGITAL MAIN ASSY.

Note: When diagnosing, it is not necessary to connect FAN cable (FRONT BRIDGE ASSY: CN7726).

(6) Connect the seven extension jig cables.
(7) Connect the Rear Panel to the Chassis Ground. **(Refer to the "Ground points.")**
(8) Arrange the unit as shown in the photo below.

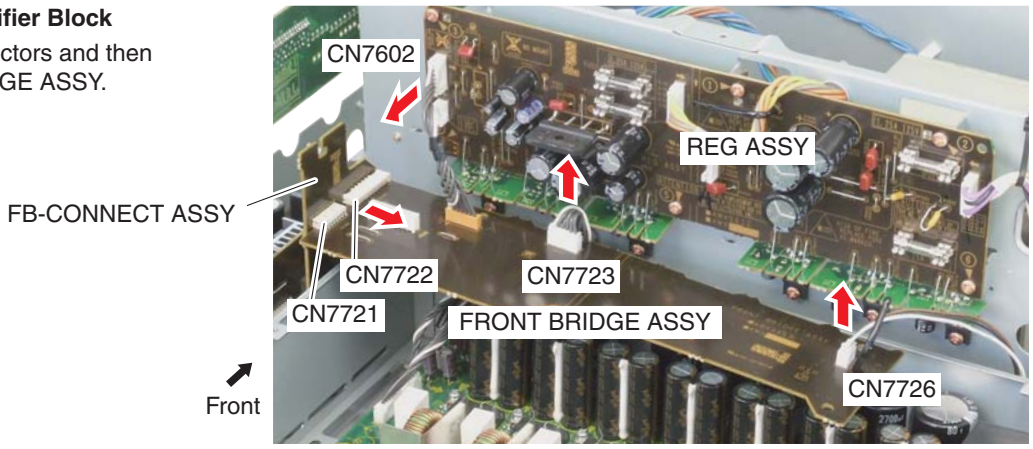


No.	Jig Cable	Part No.	Assy			Assy		Remarks
1	39P FFC	GGD1681	DIGITAL MAIN	CN601	<->	CN7651	DISPLAY BRIDGE	System control
2	15P FFC	GGD1680	AUDIO	CN2503	<->	CN7724	FRONT BRIDGE	Front I/O check
3	20P + 20P board to board extension jig cable	GGD1677	DIGITAL MAIN	CN602	<->	CN7802	CONNECT	Video
			DIGITAL MAIN	CN603	<->	CN7801	CONNECT	Video
4	5P PH Housing	GGD1594	AUDIO	JP3001	<->	CN7502	REG	Power supply
5	21P + 15P board to board extension jig cable	GGD1679	ICE INTERFACE	CN3801	<->	CN6821	ICE BUFFER	Audio
			ICE INTERFACE	CN3802	<->	CN6811	ICE BUFFER	Audio

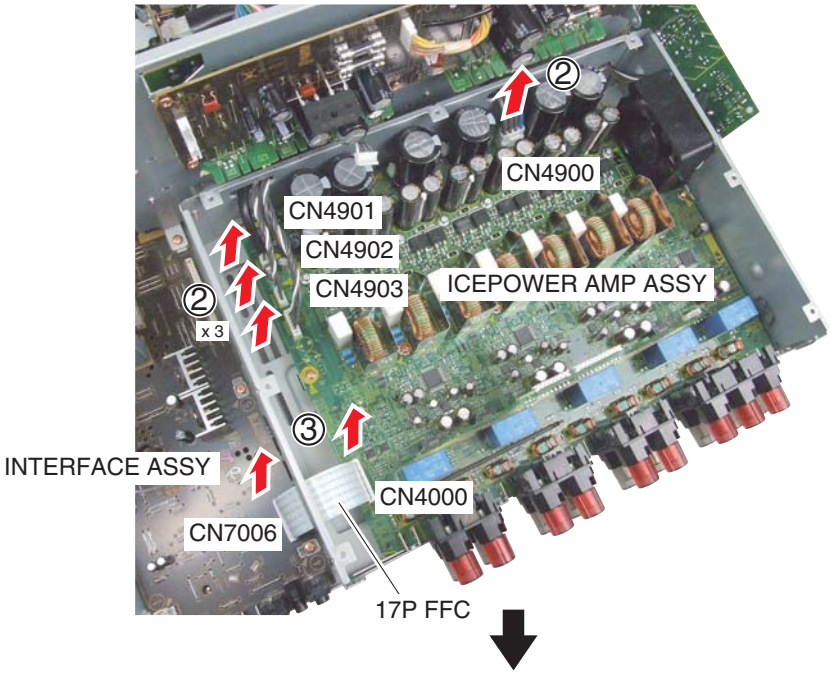
Note: When diagnosing by the above stile, it is not necessary to connect CN8401 and JP8402 on COMPONENT ASSY.

[4-3] Remove the ICE Amplifier Block

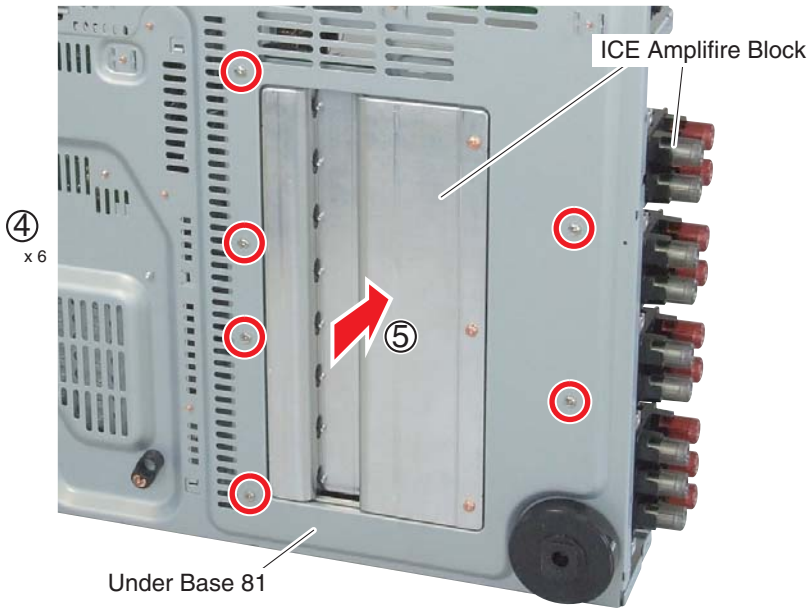
(1) Disconnect the five connectors and then remove the FRONT BRIDGE ASSY.



(2) Disconnect the four connectors.
(3) Disconnect the 17P FFC (ADD7647).



(4) Remove the six screws. (BPZ30P080FNI)
(5) Remove the ICE Amplifier Block.



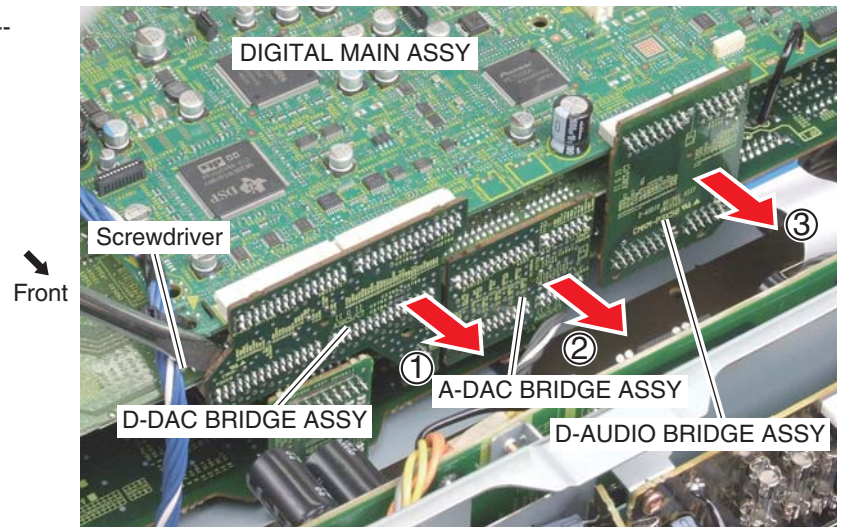
[5] DAC HIGH ASSY (SC-37/UXJCB), DAC LOW ASSY (SC-35/UXJCB, SC-1525-K/CUXJ)

Photo is the case of DAC HIGH ASSY (SC-37/UXJCB).

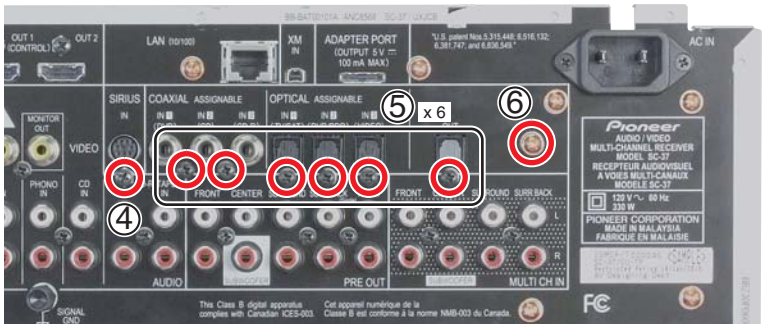
(1) Remove the Exterior Section.
(Refer to the "[2] Exterior Section")

[5-1] Exterior

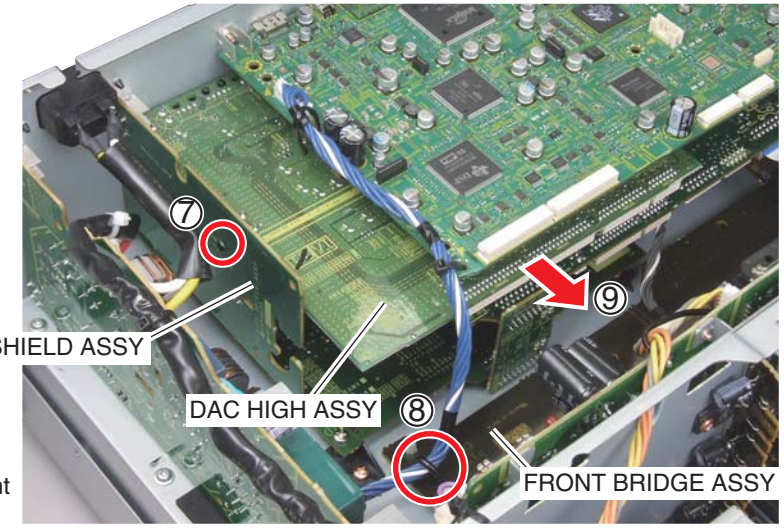
(1) Remove the D-DAC BRIDGE ASSY.
(2) Remove the A-DAC BRIDGE ASSY.
(3) Remove the D-AUDIO BRIDGE ASSY.



(4) Remove the screw. (BMZ30P040FTB)
(5) Remove the six screws (SC-37/UXJCB). SC-35/UXJCB, SC-1525-K/CUXJ case of the five screws. (BPZ30P080FTB)
(6) Remove the screw. (ABA1011)



(7) Remove the Push Rivet.
(8) Release the jumper wires form the FRONT BRIDGE ASSY.
(9) Remove the DAC HIGH ASSY or DAC LOW ASSY.



[5-2] Diagnosis

(1) Reassembling the D-AUDIO BRIDGE ASSY.

(2) Connect the two board to board extension jig cables.

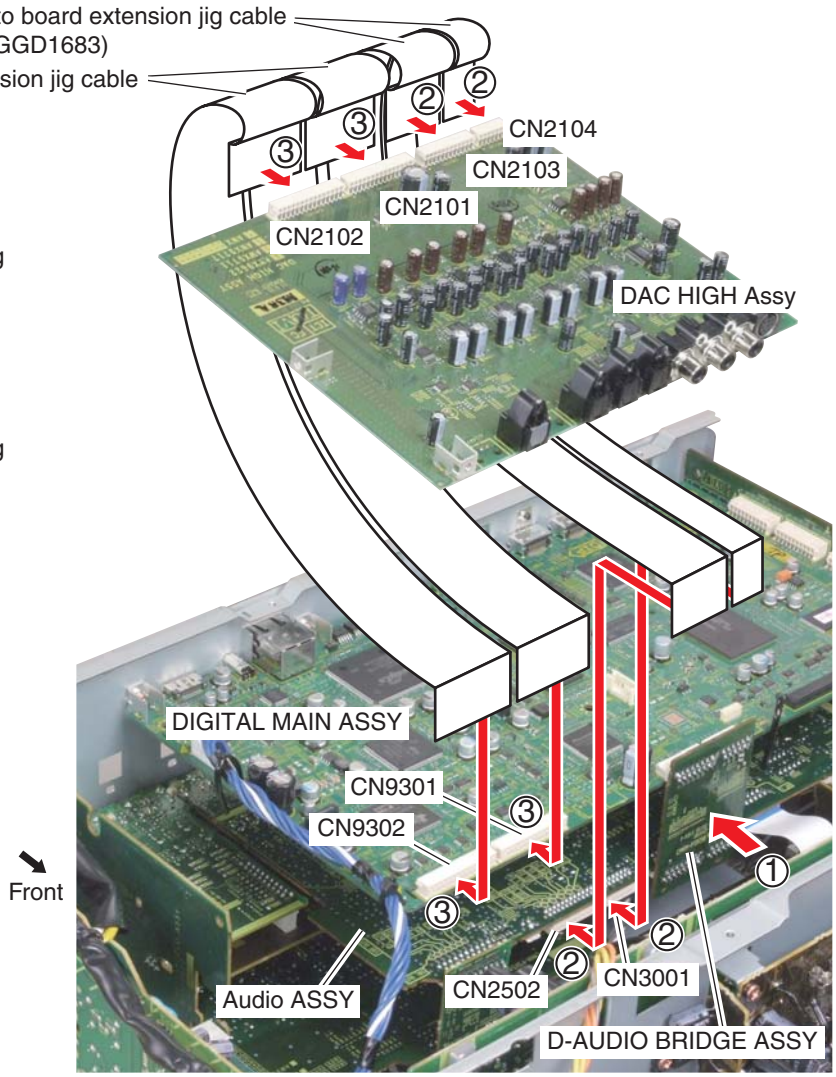
(AUDIO CN2502 <-> DAC HIGH or DAC LOW CN2103)

(AUDIO CN3001 <-> DAC HIGH or DAC LOW CN2104)

(3) Connect the two board to board extension jig cables.

(DIGITAL MAIN CN9302 <-> DAC HIGH or DAC LOW CN2102)

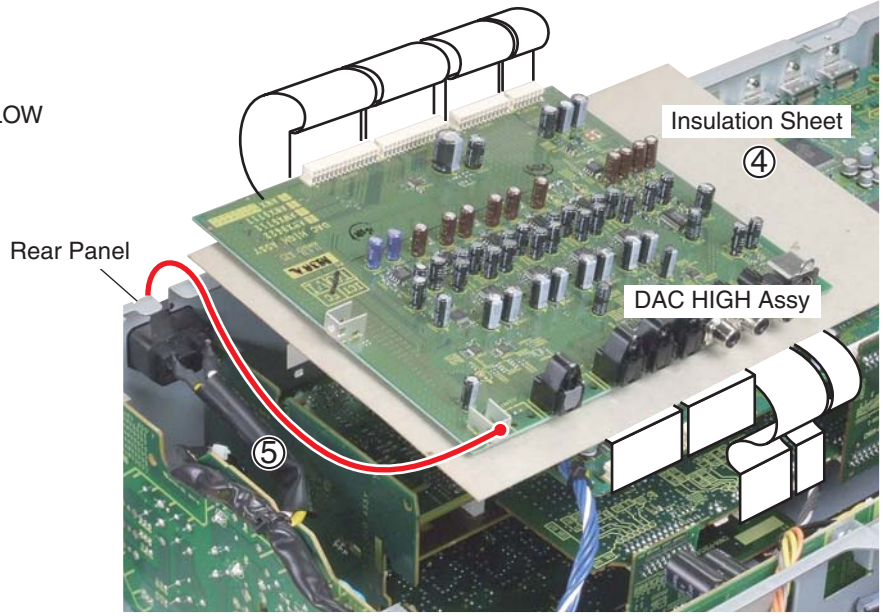
(DIGITAL MAIN CN9301 <-> DAC HIGH or DAC LOW CN2101)



(4) Insert the insulation sheet.

(5) Connect the DAC HIGH ASSY or DAC LOW ASSY to the Rear Panel ground.

(Refer to the "Ground points.")



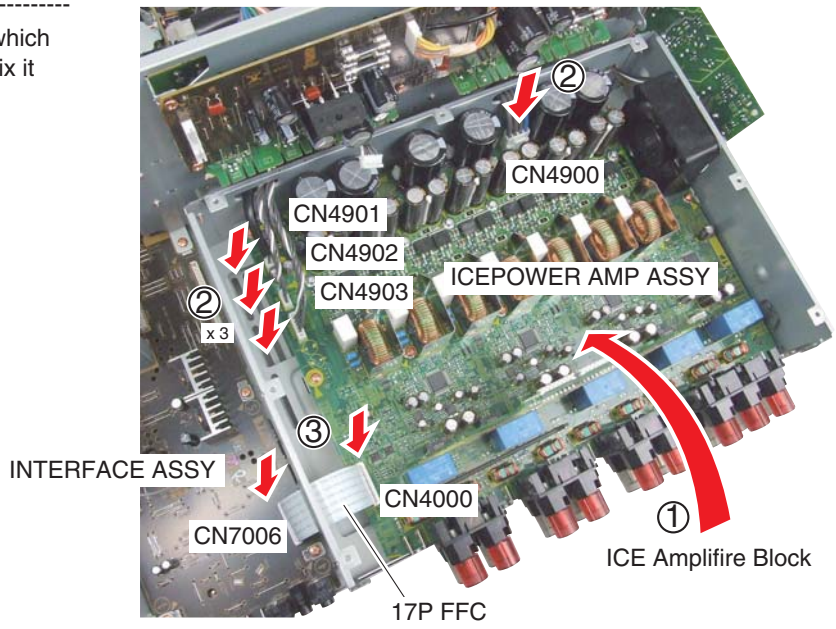
Assembling of ICE Amplifier block

Note : The right and left positions for the attachment positioning of the ICE Amplifier block are gradual, however, carry out the front and back positioning correctly following the procedure shown below.

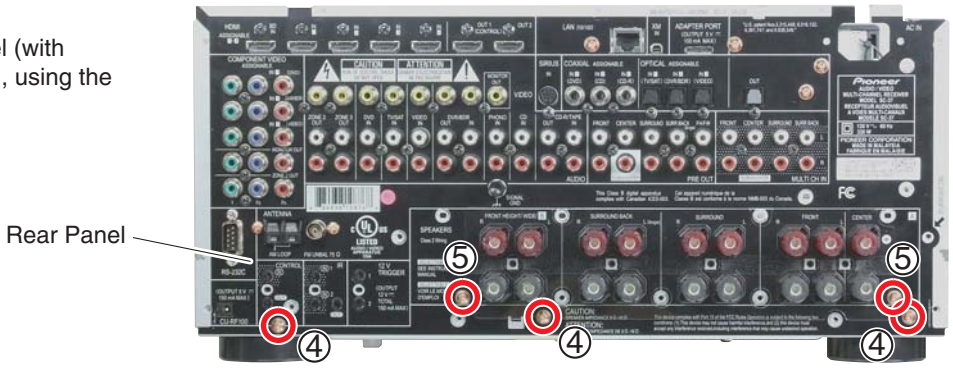
When you removed only ICE Cover 83, perform from step (9).

---

(1) Allocate the ICE Amplifier block from which the ICE Cover 83 is removed. Do not fix it with screws.
(2) Connect the fore connectors.
(3) Connect the 17P FFC (ADD7647).

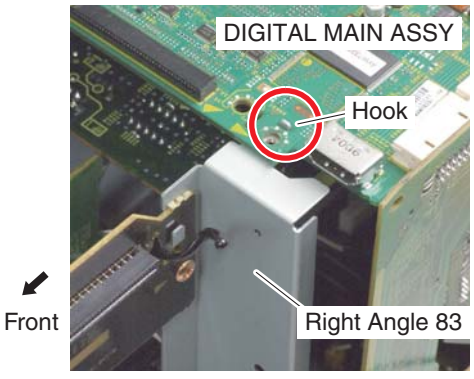


(4) Temporarily attach the Rear Panel (with other assy) to the Under Base 81, using the three screws. (ABA1011)

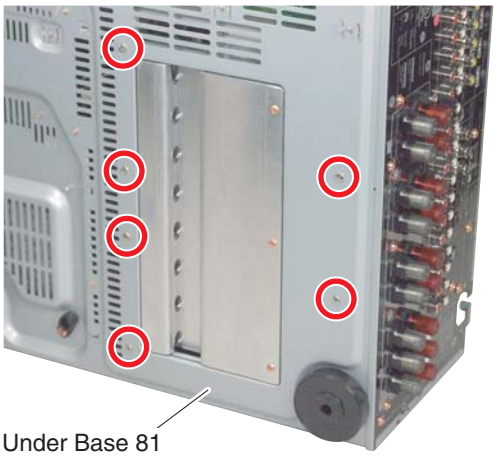


Note: Fix the DIGITAL MAIN ASSY to the hook of the Right Angle 83.

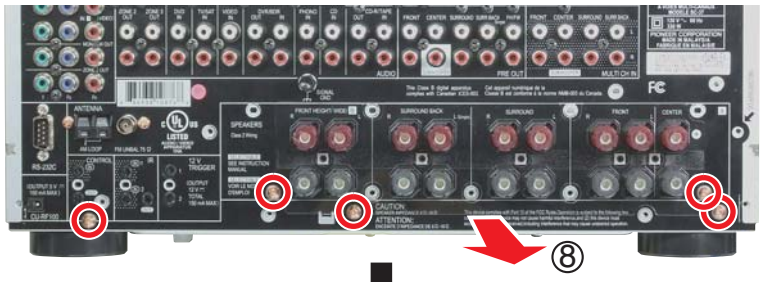
(5) Temporarily attach the ICE Amplifier block to the Rear Panel, using the two screws. (ABA1011)



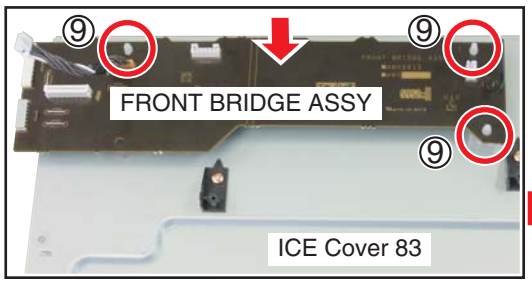
(6) Attach the ICE Amplifier block to the Under Base 81, using the six screws. (BPZ30P080FNI)

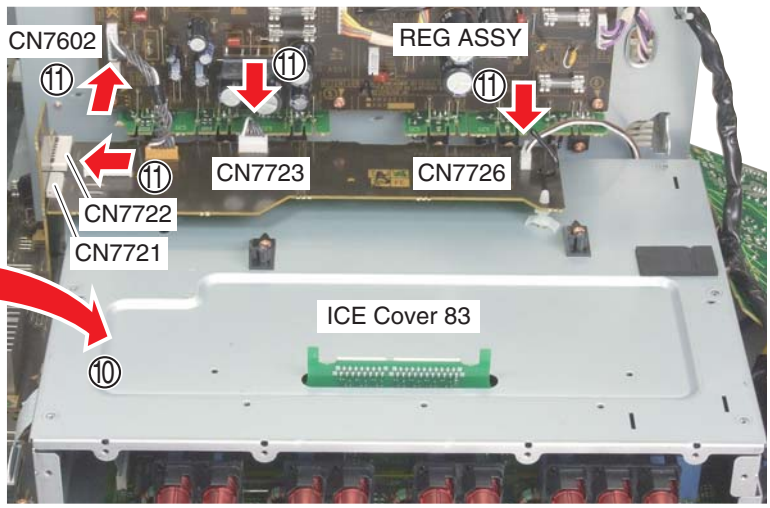


(7) Remove the five screws. (ABA1011)
(8) Remove the Rear Panel.



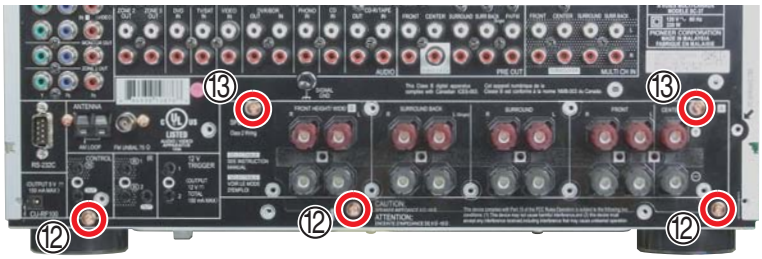
(9) Attach the FRONT BRIDGE ASSY to the ICE Cover 83, using the three PCB Holders.





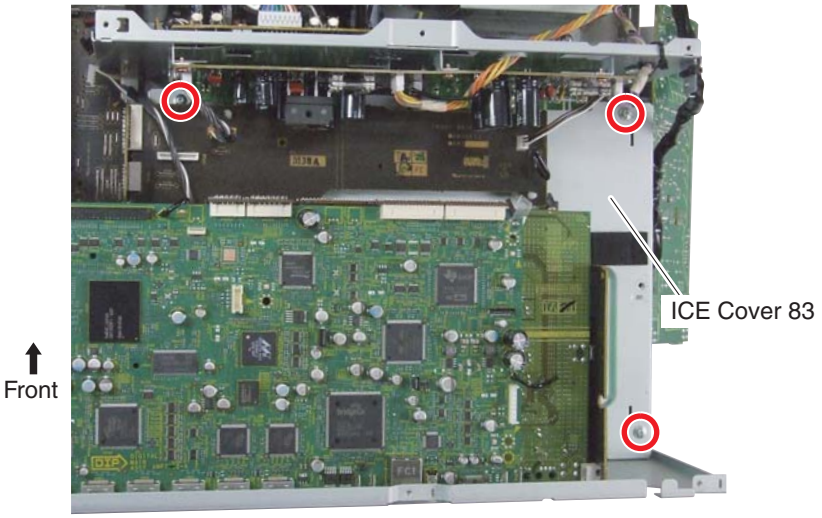
(10) Allocate the ICE Cover 83 (with FRONT BRIDGE ASSY). Do not fix it with screws.
(11) Connect the five connectors.

(12) Temporarily attach the Rear Panel (with other assy) to the Under Base 81, using the three screws. (ABA1011)
(13) Temporarily attach the ICE Cover 83 to the Rear Panel, using the two screws. (ABA1011)

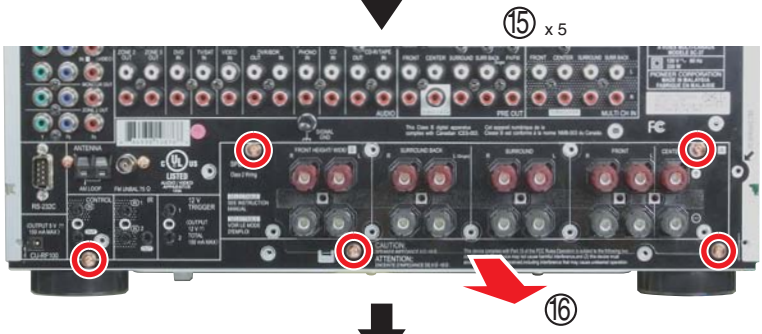


(14) Attach the ICE Cover 83 to the ICE Box 83 from upper face, using the three screws. (AMZ30P060FTC)

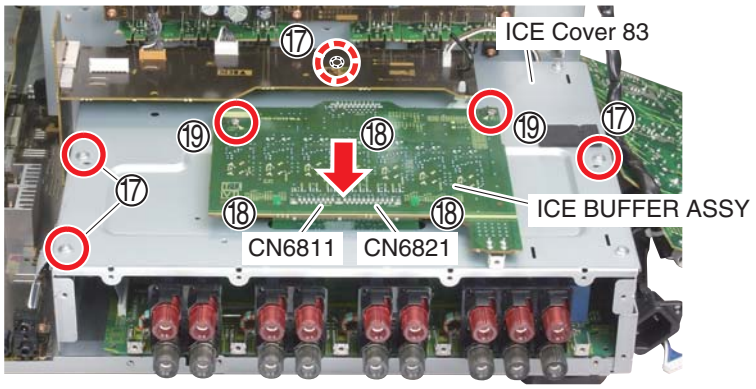
Note: Secure the screws for fixing the ICE Cover 83 without using the electric screwdriver, but manually.



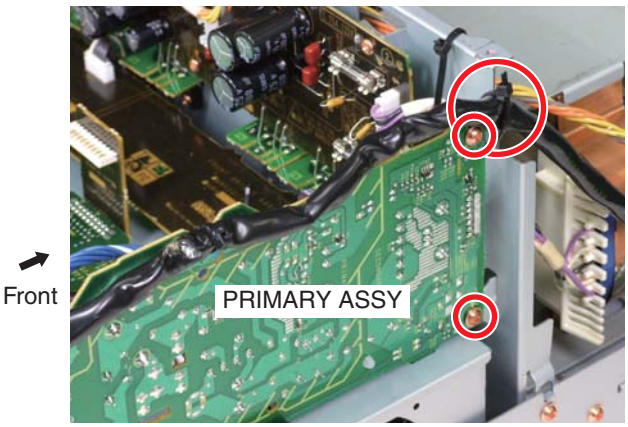
(15) Remove the five screws. (ABA1011)
(16) Remove the Rear Panel.



(17) Attach the ICE Cover 83 to the ICE Box 83 completely, using the four screws. (AMZ30P060FTC)
(18) Connect the ICE BUFFER ASSY.
(19) Attach the two screws. (BPZ30P080FNI)



(19) Attach the PRIMARY ASSY, using the two screws. (ABA1011)
(20) Attach the binder.



8. EACH SETTING AND ADJUSTMENT

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

[Introduction]

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

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

[Data that can be saved/cannot be saved]

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

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

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

[Requirements for USB memory]

USB memory to be used should meet the following requirements.

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

[File saving format]

Files are to be saved in the following format: Model number_backup version.extension(avr)
Example: SC-37_BK01.avr

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

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

*1. If the following errors occur after "SAVE" is executed, error message will be displayed and "SAVE" will be stopped and the power will be turned off.
- Ejecting of USB device
- Short capacity of USB device
- Error during writing in the USB device (Read Only or defective Sector, etc.)

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

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

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

* If the following errors occur after "LOAD" is executed, error message will be displayed and "LOAD" will be stopped and the power will be turned off.
- No setting file
- Mismatching between the setting file and the specification of the A/V RECEIVER type to be loaded back
- Error due to Checksum, Signature Check, and Size Check
- Ejecting of USB device (during reading of the setting file)

Precautions

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

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

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

Procedures for turning OFF the HDMI control setting
⇨ HOME MENU ⇨ 4.System Setup ⇨ 4e.Other Setup ⇨ 4e1.HDMI Setup ⇨ Control OFF

8.2 HOW TO UPDATE FIRMWARE

■ Workflow

Enter the UPDATE PANEL mode.
↓
Check a current version.
↓
Update it.
↓
Update completed.
(Turn the power OFF automatically.)

Updating process

↓
Enter the UPDATE PANEL mode again.
↓
Check an updated version.
↓
Turn the power off.
(Release the UPDATE PANEL mode.)

Checking process

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

● **UPDATE PANEL Mode (Version update)**
[Preparations]

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

[Procedure]

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

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

Front Panel Key

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

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

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

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

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

[Confirmation]

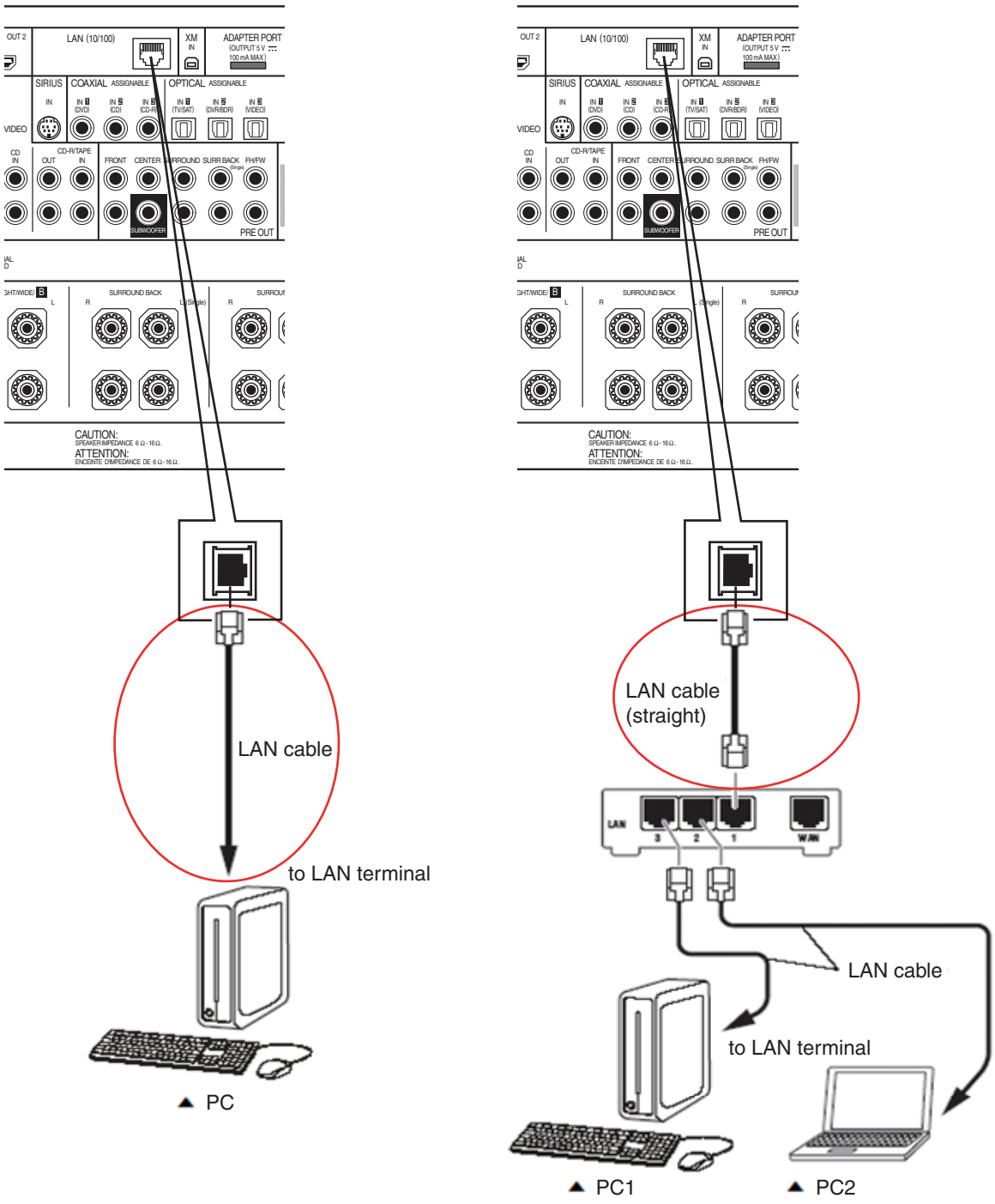
Enter UPDATE PANEL mode and check that the programs have been updated.

[1] Network Firmware Update Procedure

[Necessary Tools]

- PC (OS: Windows XP, Windows Vista, Windows 7)
- LAN cable (either straight or cross cable can be used)
- Firmware file (with the extension .bcd)

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

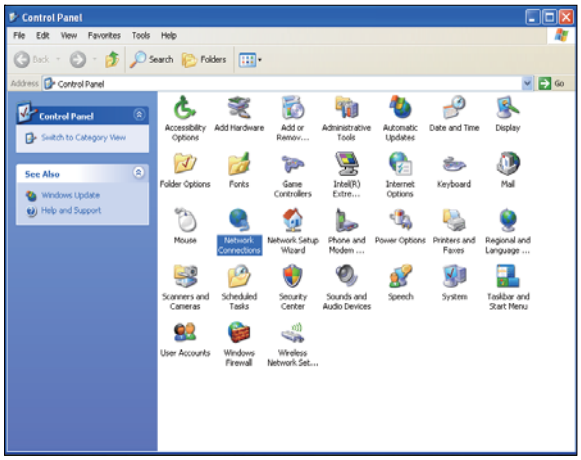


[Connection A] [Connection B]

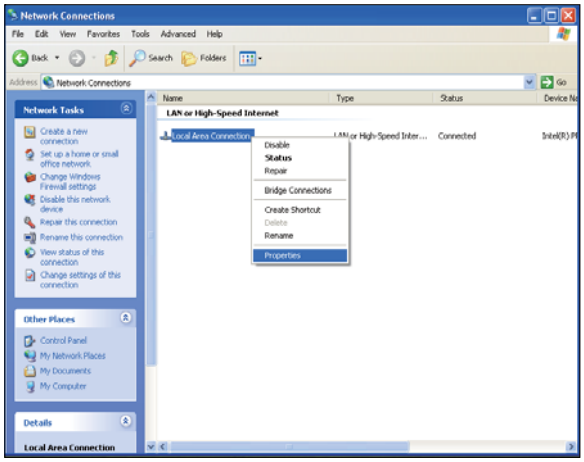
[Preparations]

Set the static IP address of the PC.
*When Connection B (connection via a DHCP router) is performed in [Procedure 1], this setting is not required.

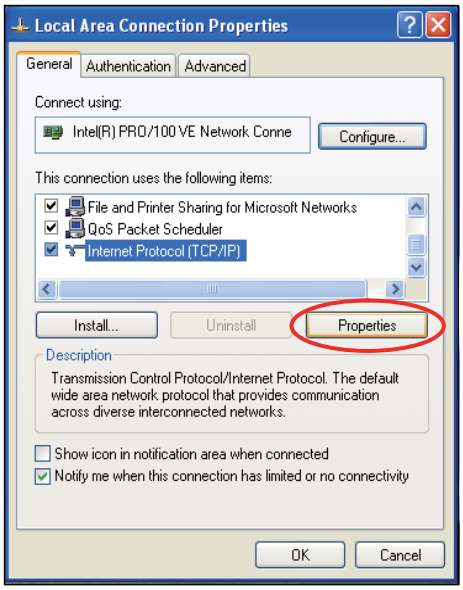
Open the Control Panel. --->
Open the Network Connections (double click).



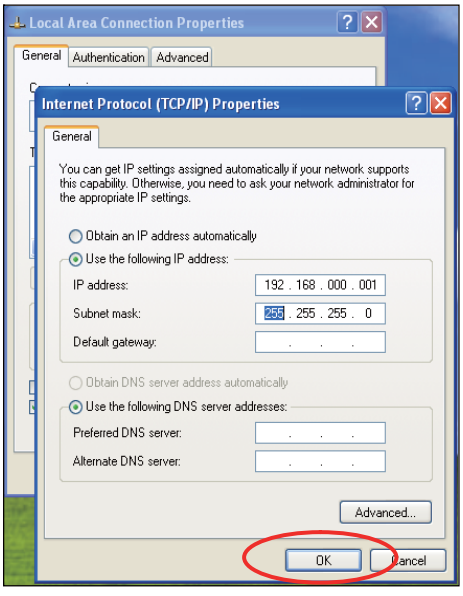
Local Area Connection (right click) ---> Properties



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



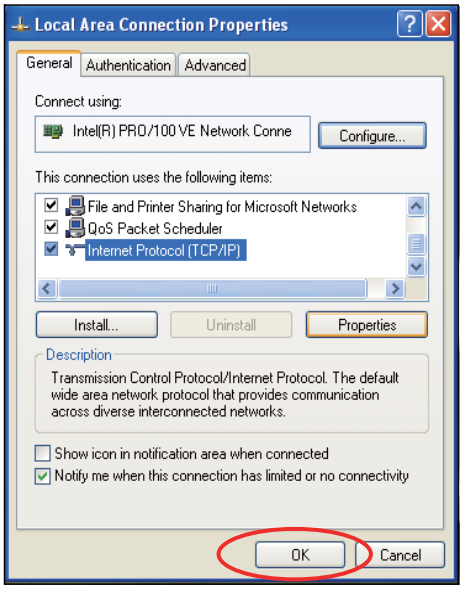
Internet Protocol (TCP/IP) Properties



Set the following settings.

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

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



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

[Procedures]

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

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

How to Set the IP Address

(1) Set the remote control to the receiver operation mode, then press HOME MENU.
A Graphical User Interface (GUI) screen appears on the TV.
Use ⬆/⬇/⬅/➡ and **ENTER** to navigate through the screens and select menu items.
Press **RETURN** to confirm and exit the current menu.

(2) Select 'System Setup' from the Home Menu.

(3) Select 'Network Setup' from the System Setup menu.

(4) Select 'IP Address, Proxy' from the Network Setup menu.

(5) Select the DHCP setting needed.
When selected **ON**, the network is automatically set up, and it is not necessary to follow Steps 6.
Proceed with Step 7.
If there is no DHCP server on the network and you select **ON**, this receiver will use its own Auto IP function to determine the IP address.

(6) Enter the IP Address, Subnet Mask, Default Gateway, Primary DNS Server and Secondary DNS Server.
Press ⬆/⬇ to select a number and ⬅/➡ to move the cursor.

(7) Select 'OFF' or 'ON' for the Enable Proxy Server setting to deactivate or activate the proxy server.
In case you select '**OFF**', proceed with Step 10.
In case selected '**ON**', on the other hand, proceed with Step 8.

(8) Enter the address of your proxy server or the domain name.

(9) Enter the port number of your proxy server.
Use the numeric buttons to enter the port number.

(10) Select 'OK' to confirm the IP Address/Proxy setup.

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

Be sure to confirm and note the IP address.

How to Confirm the IP Address

(1) Set the remote control to the receiver operation mode, then press HOME MENU.

A Graphical User Interface (GUI) screen appears on the TV.

Use ⬆/⬇/⬅/➡ and ENTER to navigate through the screens and select menu items.

Press RETURN to confirm and exit the current menu.

(2) Select 'System Setup' from the Home Menu.

(3) Select 'Network Setup' from the System Setup menu.

(4) Select the IP Adderss, Proxy.

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

Open Internet Explorer on the PC.

When the AV amplifier is directly connected with the PC, enter "http:// 192. 168. 20. 15 " in the address box then press the Enter key.

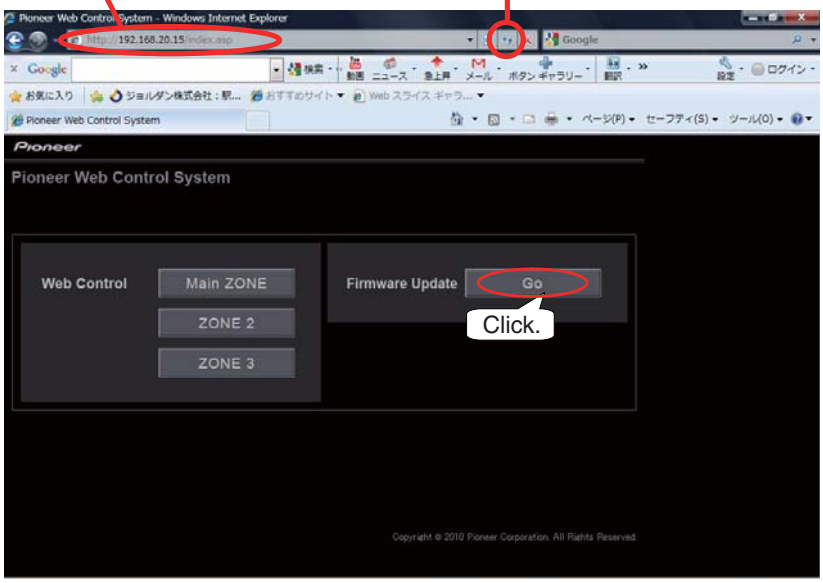
This IP Address is an example.

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

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

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

The following screen will be displayed.
Click on "Firmware Update."



[2] The firmware update method of the network work

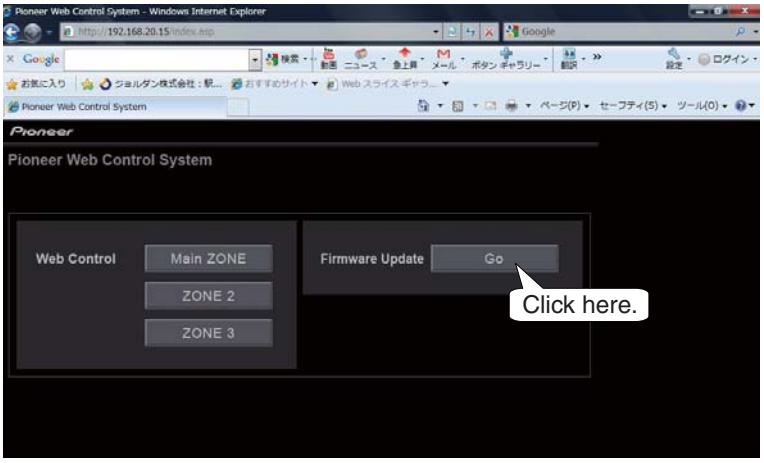
You store the latest firmware to a PC connected to LAN same as a product.

① You confirm IP Address in ”HOME MENU” of the product.

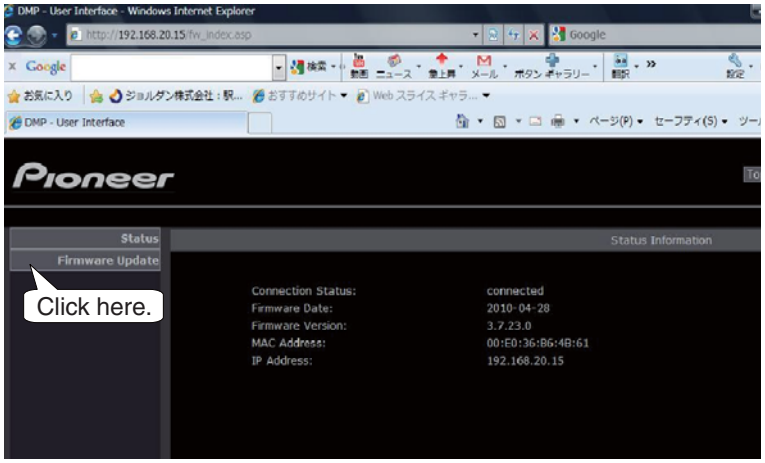
You input IP Address into the Web browser software (IE) of the PC and carry it out.

The right screen is displayed by the PC.

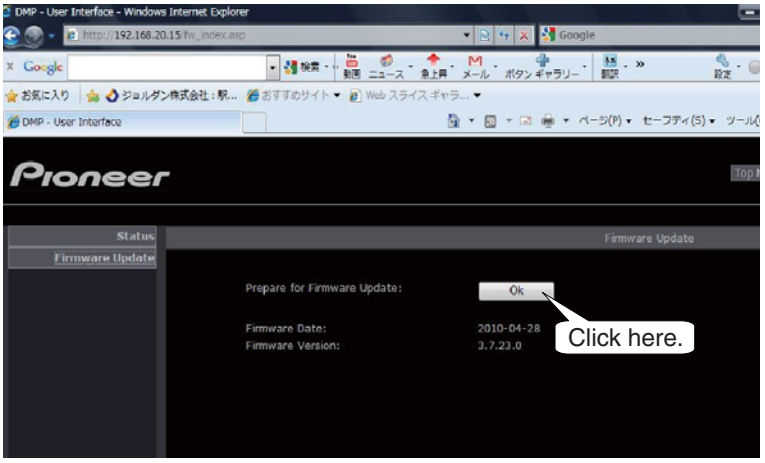
You click "Firmware Update".



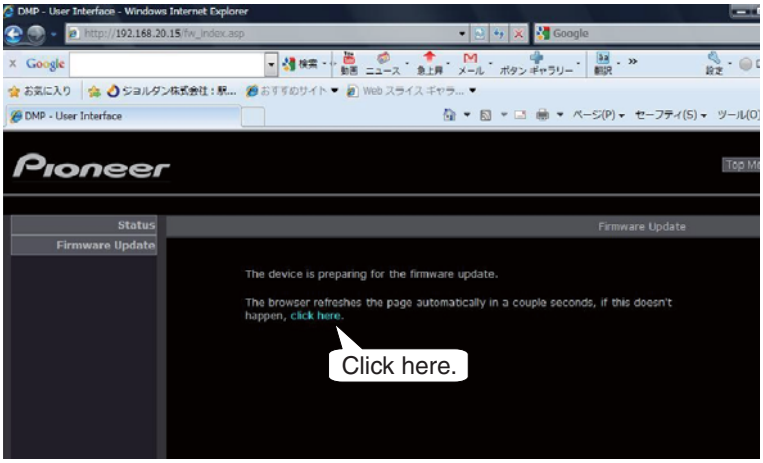
② You click "Firmware Update".



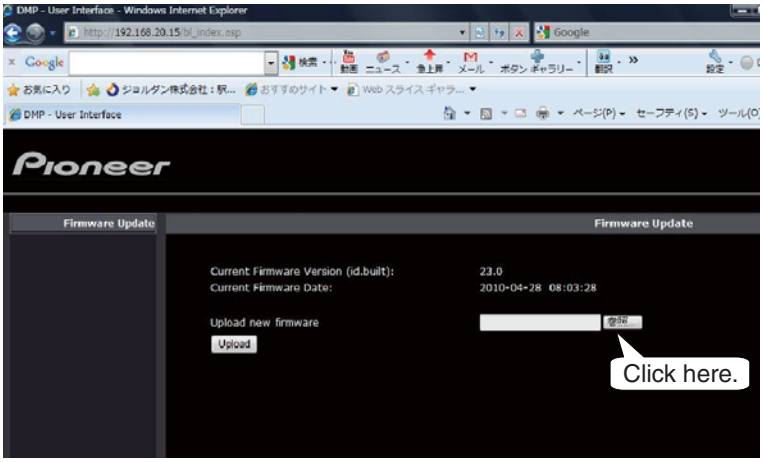
③ You confirm a version of current firm ware and click “OK” it you update it.



④ When you wait for around 20 seconds, and a screen is not replaced, you click “click here”.



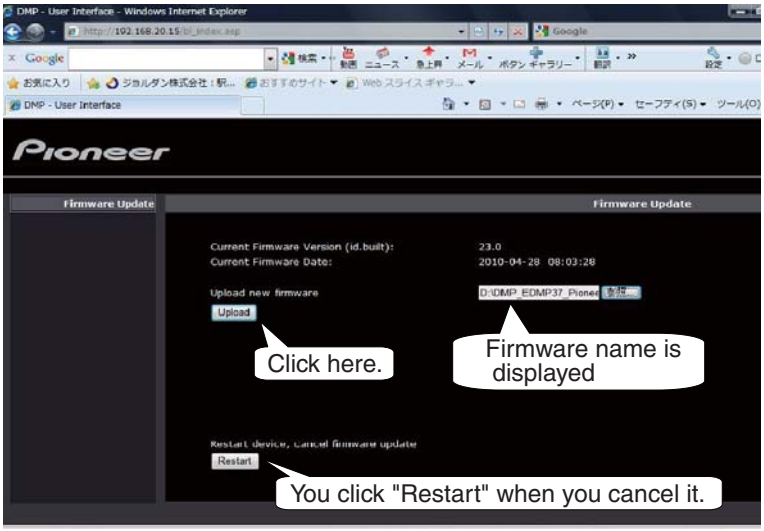
⑤ You choose the firmware which you stored to the PC.



⑥ Firmware name is displayed.

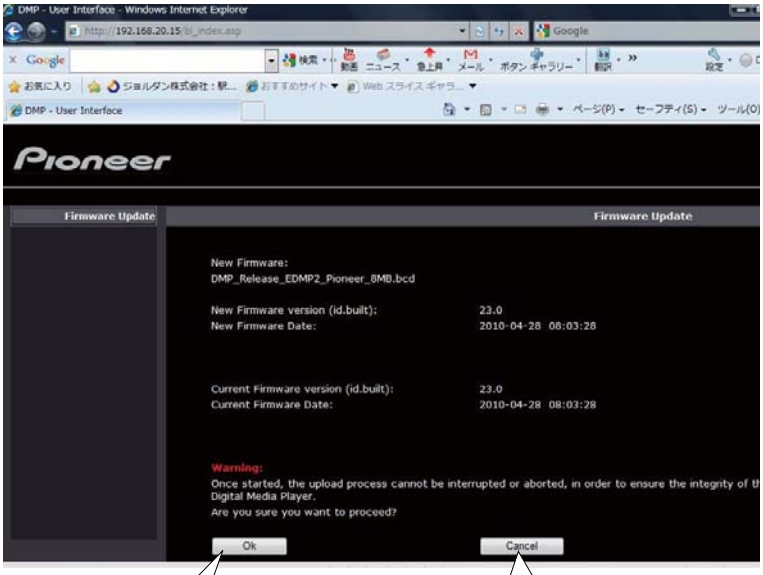
If firmware name is OK, you click "Upload".

You click "Restart" when you cancel it.

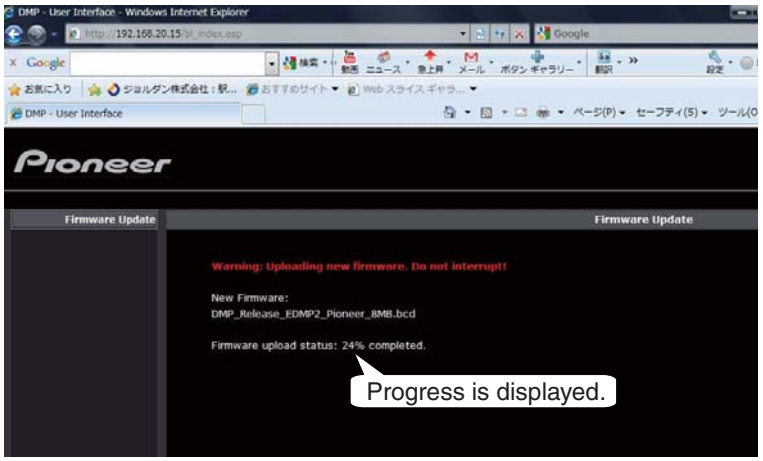


⑦ When you start update, you click "OK".

When you cancel it, you click "Cancel".

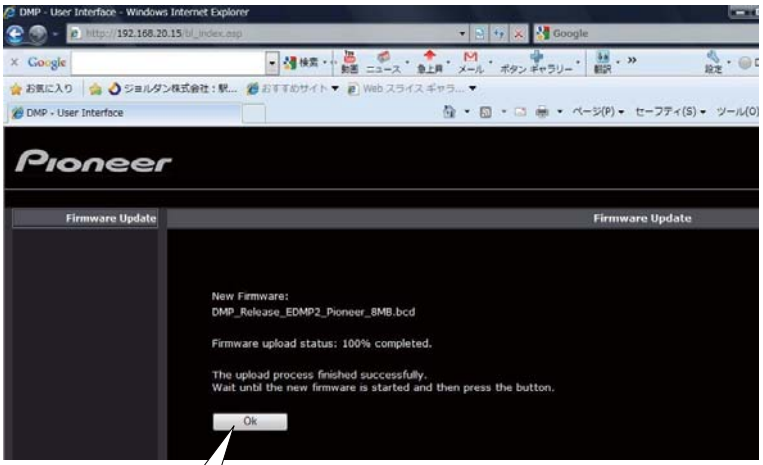


⑧ This is a screen updating.

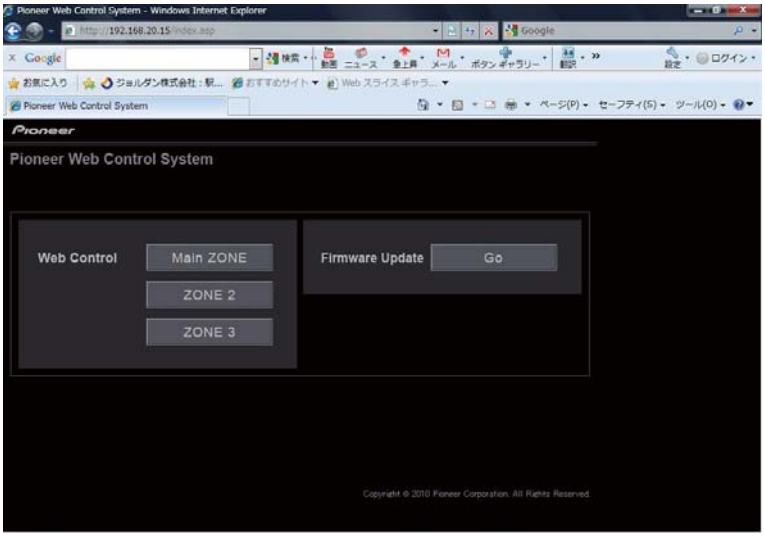


⑨ When progress became 100%, the update is completed.

When you clicked "OK", the update is finished.



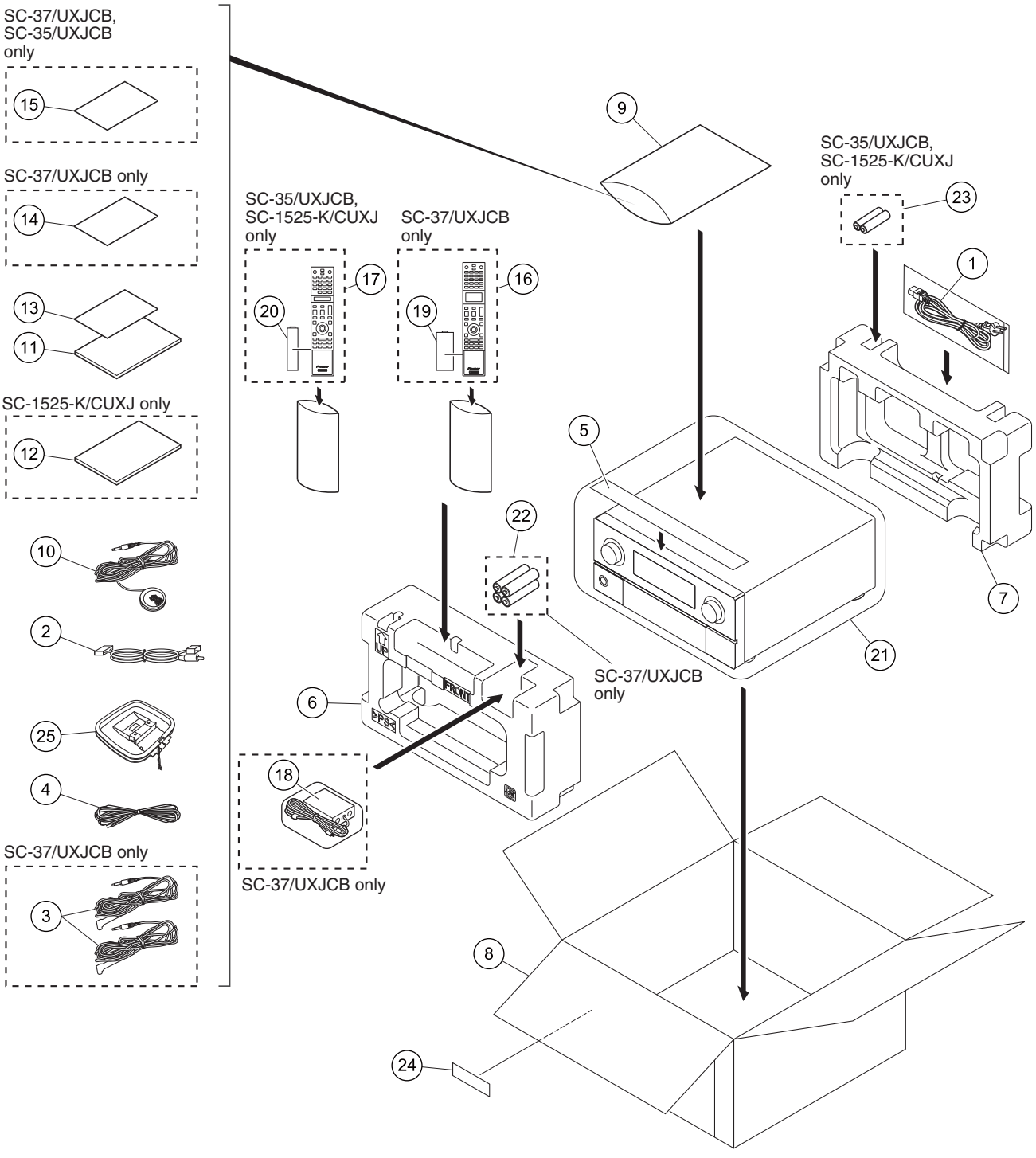
⑩ The screen returns to the first screen.



9. EXPLODED VIEWS AND PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *Screws adjacent to ▼ mark on product are used for disassembly.*
● *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

9.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.
⚠	1	AC Power Cord	ADG7111
	2	30P iPod Cable	ADE7135
	3	IR Bluster Cable	See Contrast table (2)
	4	FM Wire Antenna	ADH7030
	5	Protection Sheet LX	See Contrast table (2)
	6	Front Pad 83	AHA7488
	7	Rear Pad 83	AHA7489
	8	Packing Case	See Contrast table (2)
NSP	9	Polyethylene Bag	AHG7117
	10	MCACC Setup Microphone	APM7009
	11	Operating Instrutions (EN)	See Contrast table (2)
	12	Operating Instrutions (FR)	See Contrast table (2)
	13	Caution Sheet SP, E	ARM7083
	14	RF Remote Caution	See Contrast table (2)
NSP	15	Warranty Card	See Contrast table (2)
	16	RF Remote Control Unit	See Contrast table (2)
	17	Remote Control Unit	See Contrast table (2)
	18	RF Receiver Box	See Contrast table (2)
	19	Battery Cover	See Contrast table (2)
	20	Battery Door	See Contrast table (2)
	21	Packing Sheet	RHC1023
NSP	22	Dry Cell Battery (LR6)	See Contrast table (2)
NSP	23	Dry Cell Battery (R3)	See Contrast table (2)
NSP	24	Serial Label S	VRW2017
	25	AM Loop Antenna	XTB3004

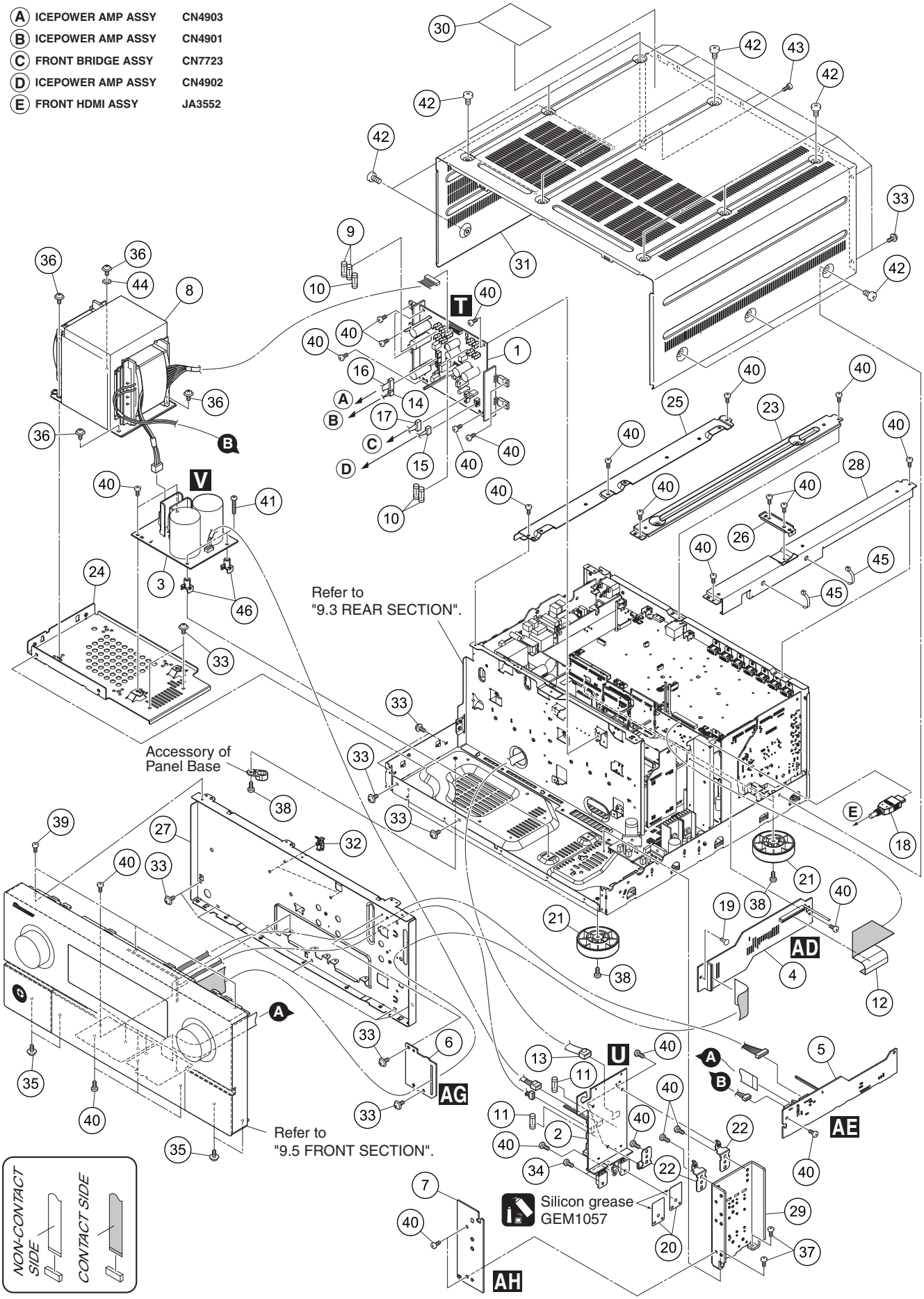
(2) CONTRAST TABLE

SC-37/UXJCB, SC-35/UXJCB and SC-1525-K/CUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	SC-37/UXJCB	SC-35/UXJCB	SC-1525-K/CUXJ
	3	IR Bluster Cable	ADF7007	Not used	Not used
	5	Protection Sheet LX	AEH7030	AEH7030	Not used
	8	Packing Case	AHD8677	AHD8683	AHD8684
	11	Operating Instrutions (EN)	ARB7446	ARB7446	ARB7447
	12	Operating Instrutions (FR)	Not used	Not used	ARC7970
	14	RF Remote Caution	ARM7131	Not used	Not used
NSP	15	Warranty Card	ARY7007	ARY7007	Not used
	16	RF Remote Control Unit	AXD7580	Not used	Not used
	17	Remote Control Unit	Not used	AXD7591	AXD7591
	18	RF Receiver Box	AXX7272	Not used	Not used
	19	Battery Cover	AZN8049	Not used	Not used
	20	Battery Door	Not used	AZN8047	AZN8047
NSP	22	Dry Cell Battery (LR6)	VEM1047	Not used	Not used
NSP	23	Dry Cell Battery (R3)	Not used	VEM1049	VEM1049

9.2 EXTERIOR SECTION

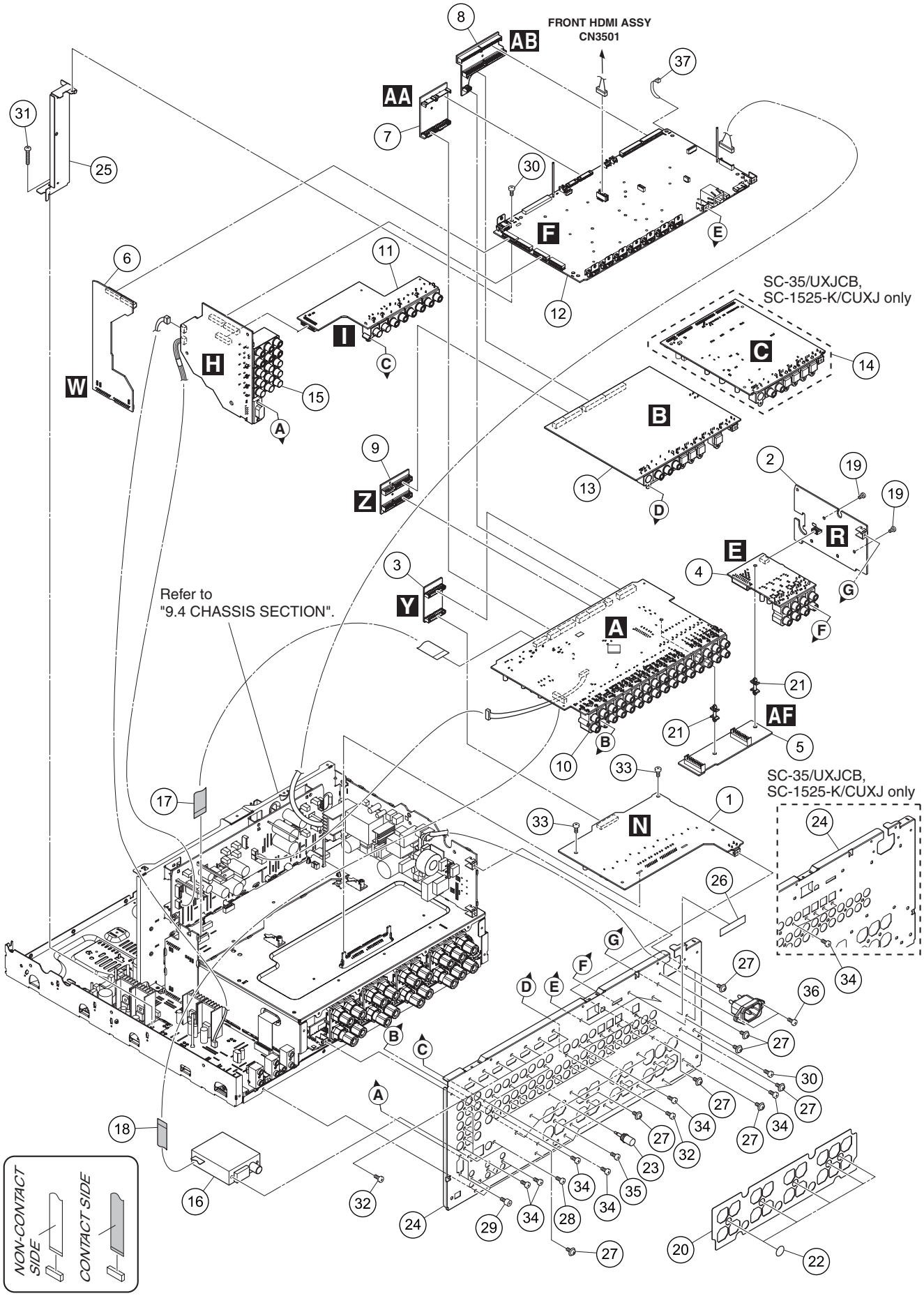
A	ICEPOWER AMP ASSY	CN4903
B	ICEPOWER AMP ASSY	CN4901
C	FRONT BRIDGE ASSY	CN7723
D	ICEPOWER AMP ASSY	CN4902
E	FRONT HDMI ASSY	JA3552



EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	ICE REG ASSY	AWX9606
	2	B REG ASSY	AWX9607
	3	B DIODE ASSY	AWX9608
	4	DISPLAY BRIDGE ASSY	AWX9614
	5	F-IN BRIDGE ASSY	AWX9615
	6	FFC GUARD ASSY	AWX9641
	7	H GUARD ASSY	AWX9610
⚠	8	Power Transformer	ATS7430
⚠	9	Fuse (FU13, FU14 : 1A)	REK1142
⚠	10	Fuse (FU11, FU12, FU15 : 1.25A)	REK1143
⚠	11	Fuse (FU61, FU62 : 10A)	REK1154
	12	39P FFC/60V (J15)	ADD7726
	13	4P Housing ASSY (J20)	ADX7622
	14	2P Housing ASSY (J24)	ADX7657
	15	4P Housing ASSY (J25)	ADX7677
	16	7P Housing ASSY (J22)	ADX7701
	17	6P Housing ASSY (J23)	ADX7715
	18	HDMI Cable (J21)	ADX7733
	19	Push Rivet	AEC7071
	20	Sheet	AEE7034
	21	Insulator	AMR7198
	22	PCB Angle 45	ANG7406
	23	Center Beam V1	ANG7482
	24	Trans Flame 81	ANG7623
	25	Left Beam 81	ANG7624
	26	Support Plate 82	ANG7654
NSP	27	Panel Stay 83	ANG7666
	28	Right Beam 83	ANG7667
	29	REG Heat Sink 83	ANH7221
	30	Lisence Label 10MID	ARW7407
	31	Bonnet 81B	AZN8036
NSP	32	Mini Clamp	VEC1597
	33	Screw	ABA1011
	34	Screw	ABA1052
	35	Screw (FE)	ABA1193
	36	Screw 4 x 12 (FE)	ABA7109
	37	Screw 3 x 10 SEMS	ABA7134
	38	Cup Screw 3 x 8 FCC	ABA7149
	39	Screw	BBT30P080FCC
	40	Screw	BBZ30P060FCC
	41	Screw	BBZ30P180FCC
	42	Screw	BCZ40P060FTB
	43	Screw	IBP30P090FCC
	44	Toothed Lock Washer	WH40FNI
NSP	45	Binder (BK-1)	ZCA-BK1
	46	PCB Mold	AMR2533

9.3 REAR SECTION



(1) REAR SECTION PARTS LIST

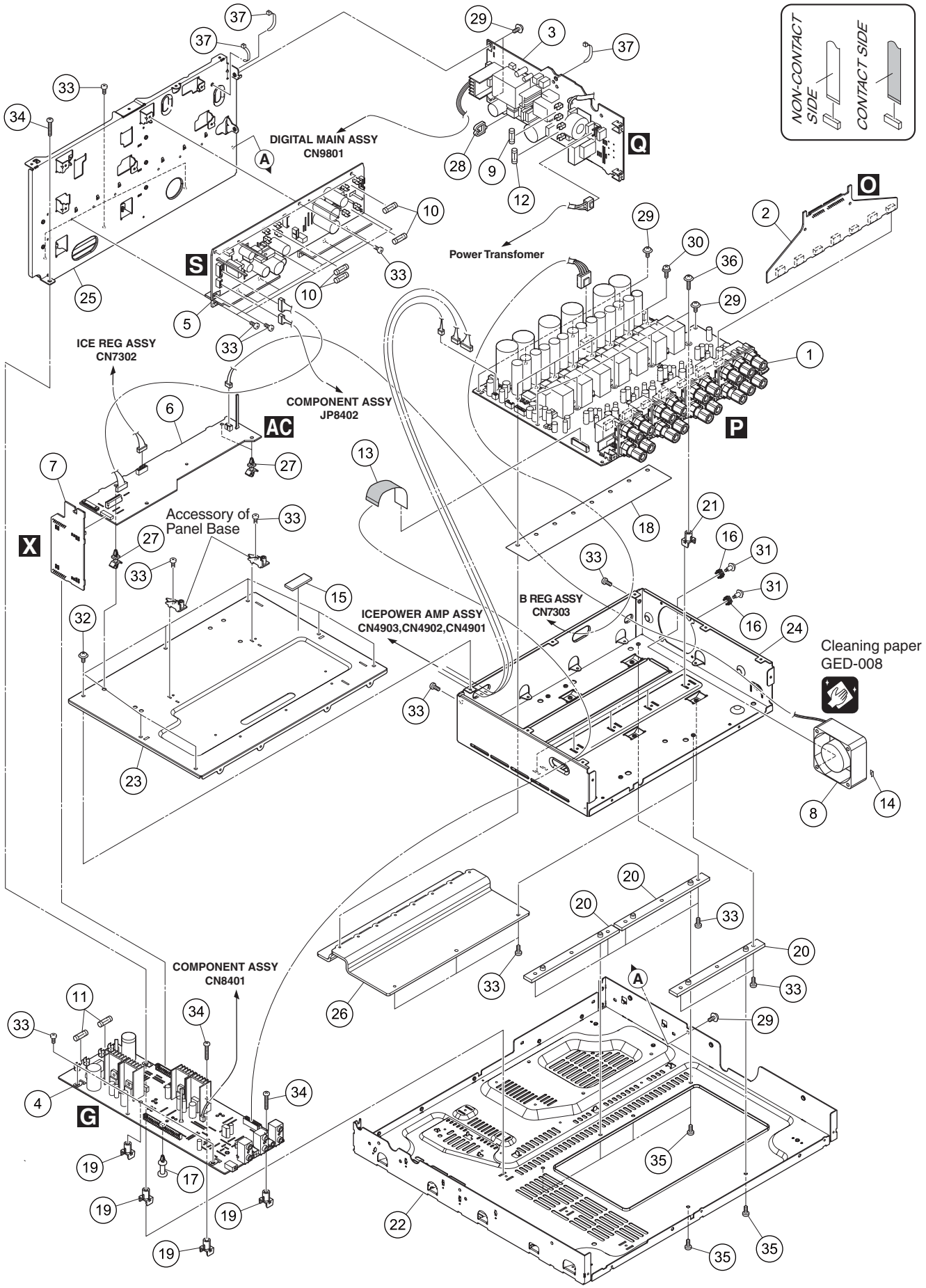
Mark	No.	Description	Part No.
	1	ICE BUFFER ASSY	AWX9598
	2	PRIMARY SHIELD ASSY	AWX9603
	3	PRE BRIDGE ASSY	AWX9611
	4	MULTI CH IN ASSY	AWX9616
	5	MCH BRIDGE ASSY	AWX9617
	6	CONNECT ASSY	AWX9619
	7	D-AUDIO BRIDGE ASSY	AWX9569
	8	D-DAC BRIDGE ASSY	AWX9570
	9	A-DAC BRIDGE ASSY	AWX9571
	10	AUDIO ASSY	AWX9647
	11	COMPOSITE ASSY	AWX9652
	12	DIGITAL MAIN ASSY	See Contrast table (2)
	13	DAC HIGH ASSY	See Contrast table (2)
	14	DAC LOW ASSY	See Contrast table (2)
	15	COMPONENT ASSY	AWX9654
	16	FM/AM Tuner Unit	AXX7267
	17	15P FFC/60V (J3)	ADD7725
	18	11P FFC/60V (J7)	ADD7729
	19	Push Rivet	AEC7071
	20	SP Sheet 83	AEC7640
	21	Locking Spacer	AEC7643
	22	Cushion Circle 14B	AED7081
	23	Terminal Screw	AKE-031
	24	Rear Panel	See Contrast table (2)
	25	Right Angle 83	ANG7669
NSP	26	Serial Label S	VRW2017
	27	Screw	ABA1011
	28	Screw (FE)	ABA1207
	29	Hex head Screw 2.85 X 7 (BS)	ABA7078
	30	Screw	BBZ30P060FCC
	31	Screw	BBZ30P180FCC
	32	Screw	BMZ30P040FTB
	33	Screw	BPZ30P080FNI
	34	Screw	BPZ30P080FTB
	35	Screw	BPZ30P100FTC
	36	Screw	CBZ30P080FTB
	37	Binder (BK-1)	ZCA-BK1

(2) CONTRAST TABLE

SC-37/UXJCB, SC-35/UXJCB and SC-1525-K/CUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	SC-37/UXJCB	SC-35/UXJCB	SC-1525-K/CUXJ
	12	DIGITAL MAIN ASSY	AWX9620	AWX9621	AWX9621
	13	DAC HIGH ASSY	AWX9622	Not used	Not used
	14	DAC LOW ASSY	Not used	AWX9658	AWX9658
	24	Rear Panel	ANC8568	ANC8576	ANC8577

9.4 CHASSIS SECTION



(1) CHASSIS SECTION PARTS LIST

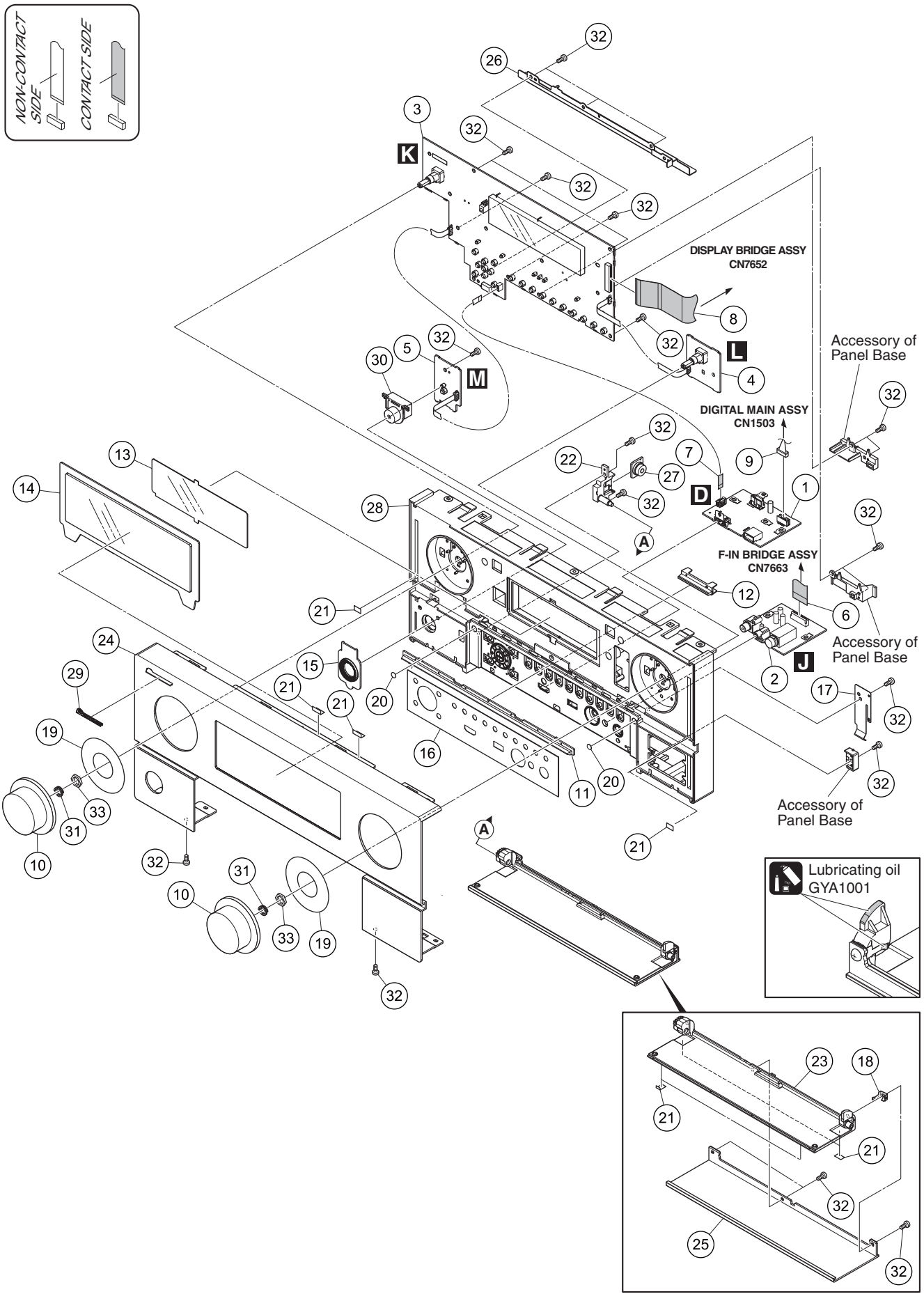
Mark	No.	Description	Part No.
	1	ICEPOWER AMP ASSY	See Contrast table (2)
	2	ICE INTERFACE ASSY	AWX9596
	3	PRIMARY ASSY	AWX9604
	4	INTERFACE ASSY	AWX9605
	5	REG ASSY	AWX9612
	6	FRONT BRIDGE ASSY	AWX9613
	7	FB-CONNECT ASSY	AWX9618
⚠	8	DC Fan Motor	AXM7040
⚠	9	Fuse (FU4 : 2A)	REK1139
⚠	10	Fuse (FU21, FU22, FU31, FU32 : 1.25A)	REK1143
⚠	11	Fuse (FU51, FU52 : 1.6A)	REK1144
⚠	12	Fuse (FU1 : 10A)	VEK1029
	13	17P FFC/60V (J4)	ADD7647
	14	Cushion 5 x 8	AEB7397
	15	Cushion T3 x 20 x 35	AEB7406
	16	Damper Bushing 83	AEB7425
	17	PCB Spacer	AEC7080
	18	Radiation Sheet 82	AEE7071
	19	PCB Mold	AMR2533
	20	Insulator ICE	AMR7523
	21	PCB Mold	AMR7536
NSP	22	Under Base 81	ANA7210
NSP	23	ICE Cover 83	ANF7054
NSP	24	ICE Box 83	ANF7055
	25	REG ASSY Plate 81	ANG7627
NSP	26	Heat Sink 82	ANH7215
NSP	27	PCB Holder	PNW2100
	28	Holder	VEC1355
	29	Screw	ABA1011
	30	Screw 3 x 10 SEMS	ABA7134
	31	Screw 3 x 11.6	ABA7146
	32	Screw	AMZ30P060FTC
	33	Screw	BBZ30P060FCC
	34	Screw	BBZ30P180FCC
	35	Screw	BPZ30P080FNI
	36	Screw	IBZ30P150FCC
	37	Binder (BK-1)	ZCA-BK1

(2) CONTRAST TABLE

SC-37/UXJCB, SC-35/UXJCB and SC-1525-K/CUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	SC-37/UXJCB	SC-35/UXJCB	SC-1525-K/CUXJ
	1	ICEPOWER AMP ASSY	AWH7024	AWH7025	AWH7025

9.5 FRONT SECTION



(1) FRONT SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	FRONT HDMI ASSY	AWX9597
	2	MIC HP ASSY	AWX9599
	3	DISPLAY ASSY	See Contrast table (2)
	4	VOL ASSY	AWX9601
	5	POWER SW ASSY	AWX9602
	6	15P FFC/60V (J2)	ADD7724
	7	4P FFC/60V (J6)	ADD7727
	8	39P FFC/60V (J19)	ADD7728
	9	5P Housing ASSY (J26)	ADX7726
	10	VOL. Knob B	AAA7052
	11	Center Lens	See Contrast table (2)
	12	IB Lens V5SEL	See Contrast table (2)
	13	Filter	See Contrast table (2)
	14	Display Panel	See Contrast table (2)
	15	Power Ring	AAK8507
	16	Door Sheet	See Contrast table (2)
	17	Door Spring	ABK7061
	18	Earth Spring 81	ABK7067
	19	VOL Stabilizer 82	AEC7629
	20	Cushion Circle 6B	AED7083
	21	Cushion 11 x 7	AED7092
	22	Door Shaft 60	AMR7531
	23	Door Base 81	AMR7540
	24	Front Panel	See Contrast table (2)
	25	Door Panel	See Contrast table (2)
	26	Panel Beam 81	ANG7620
	27	Damper ASSY (240) LX	AXA7156
	28	P Base 27CU ASSY	AZN8040
	29	Pioneer Badge G	See Contrast table (2)
	30	STDBY BTN 915K ASSY	XAD3216
NSP	31	C RING DIA 8.1	XBH3016
	32	Screw	BPZ30P080FNI
	33	Nut	NK90FTC

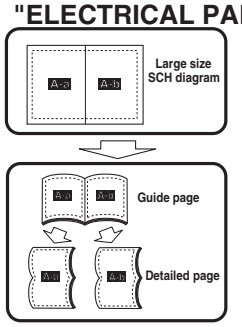
(2) CONTRAST TABLE

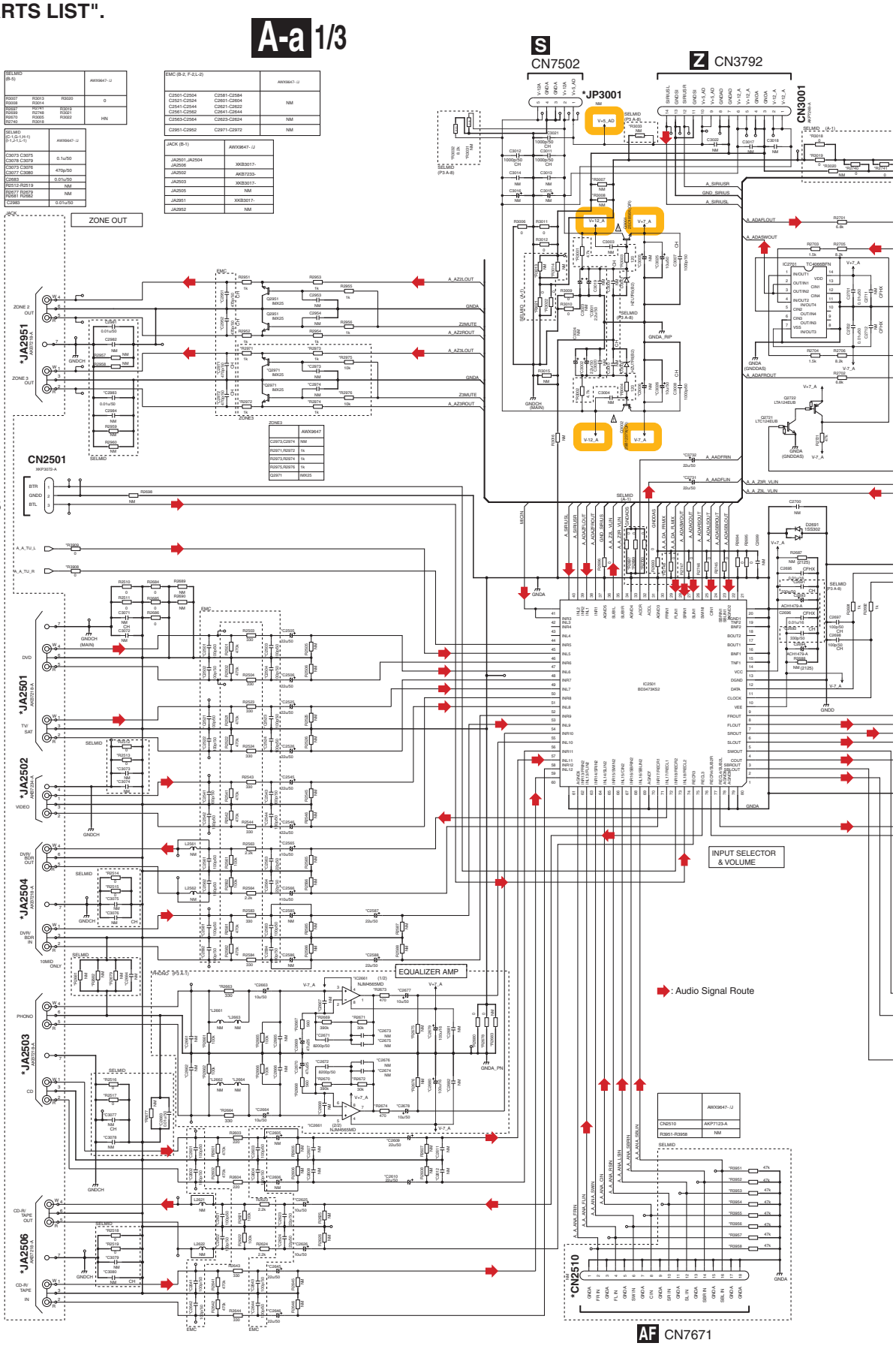
SC-37/UXJCB, SC-35/UXJCB and SC-1525-K/CUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	SC-37/UXJCB	SC-35/UXJCB	SC-1525-K/CUXJ
	3	DISPLAY ASSY	AWX9600	AWX9686	AWX9687
	11	Center Lens	AAK8428	AAK8428	AAK8429
	12	IB Lens V5SEL	AAK8430	AAK8430	Not used
	13	Filter	AAK8443	AAK8443	AAK8459
	14	Display Panel	AAK8488	AAK8488	AAK8492
	16	Door Sheet	AAK8535	AAK8535	AAK8536
	24	Front Panel	ANB7531	ANB7534	ANB7535
	25	Door Panel	ANB7538	ANB7538	ANB7539
	29	Pioneer Badge G	VAM1159	VAM1159	VAM1158

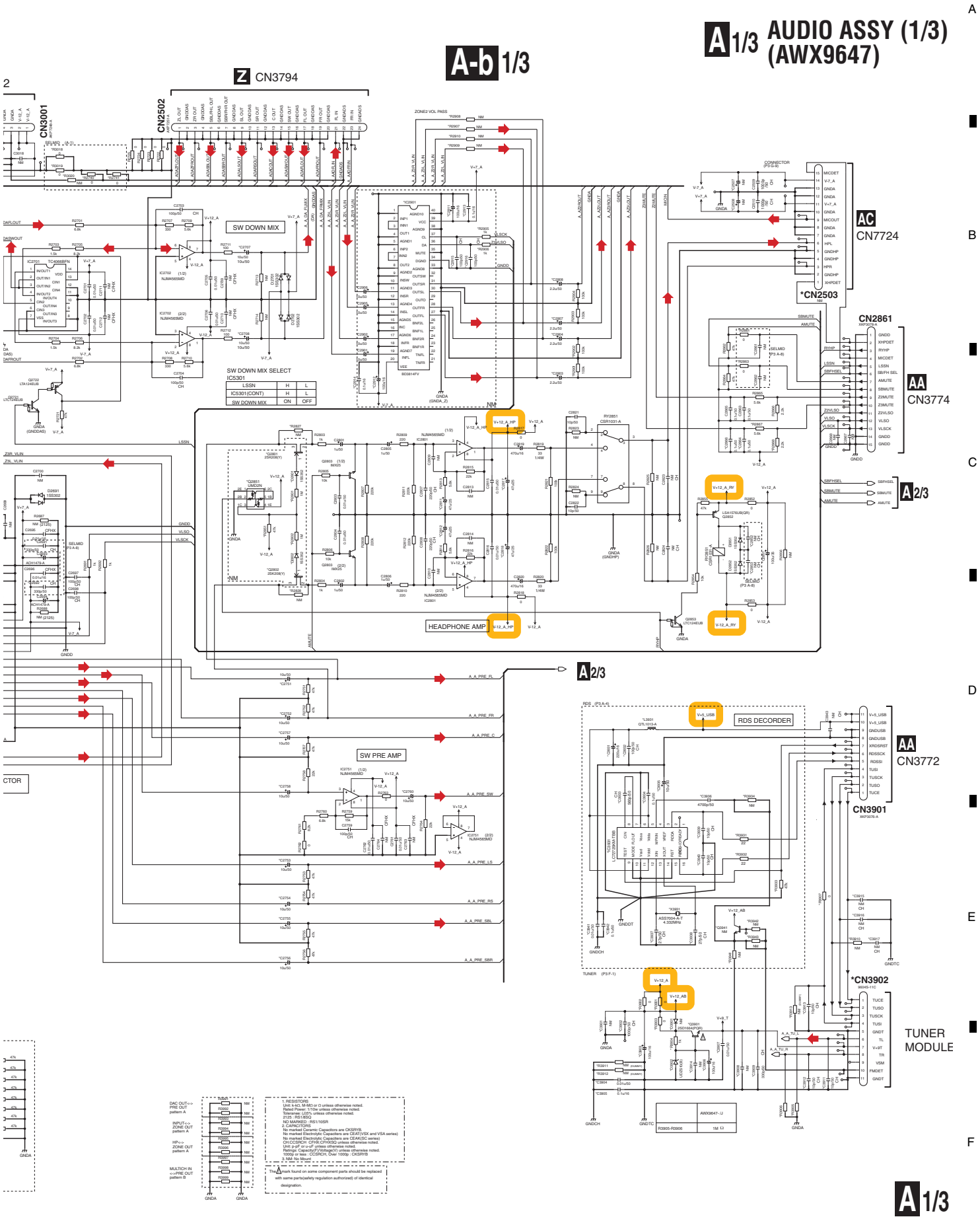
10. SCHEMATIC DIAGRAM
10.1 AUDIO ASSY (1/3)(GUIDE PAGE)

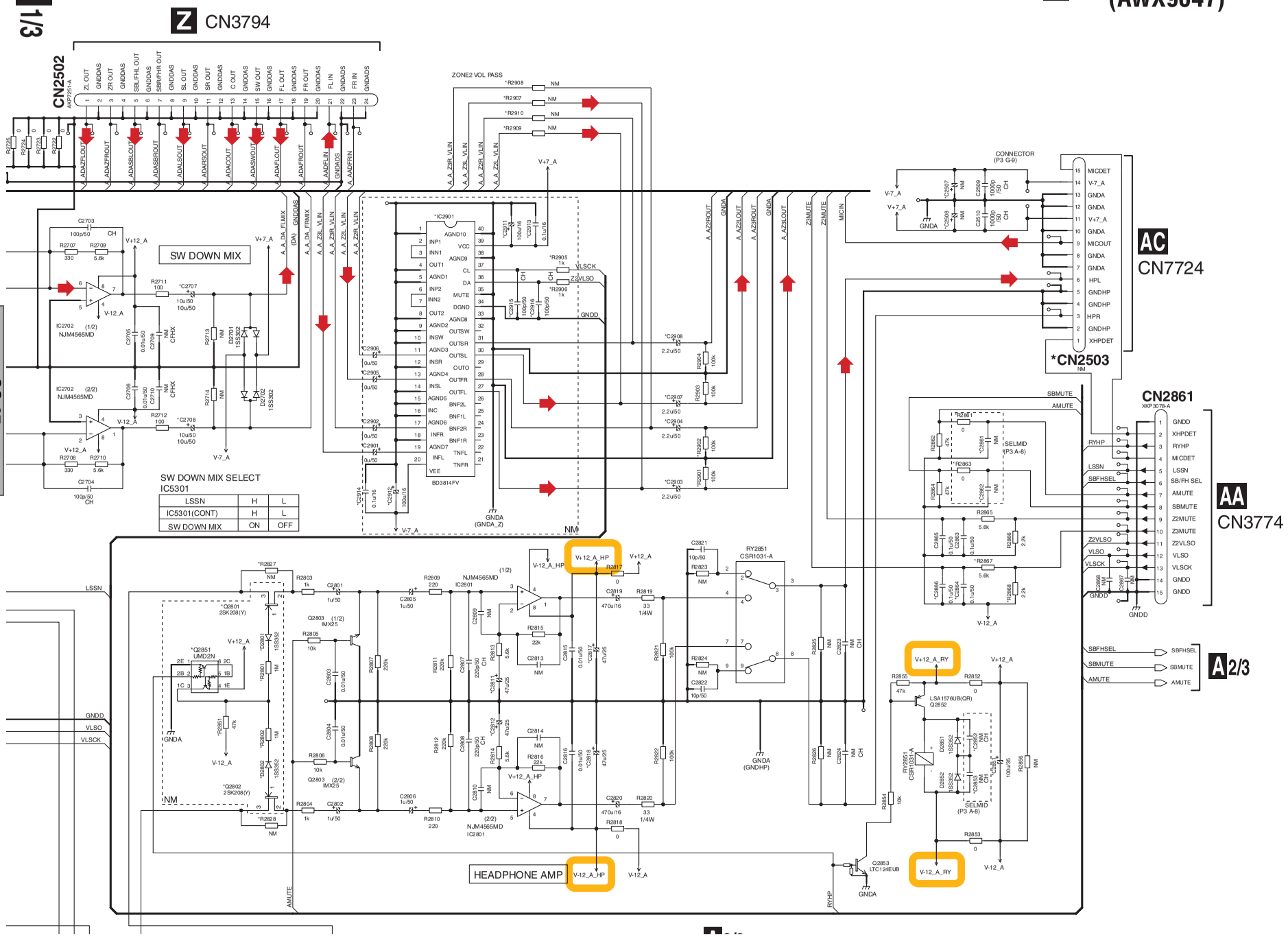
Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

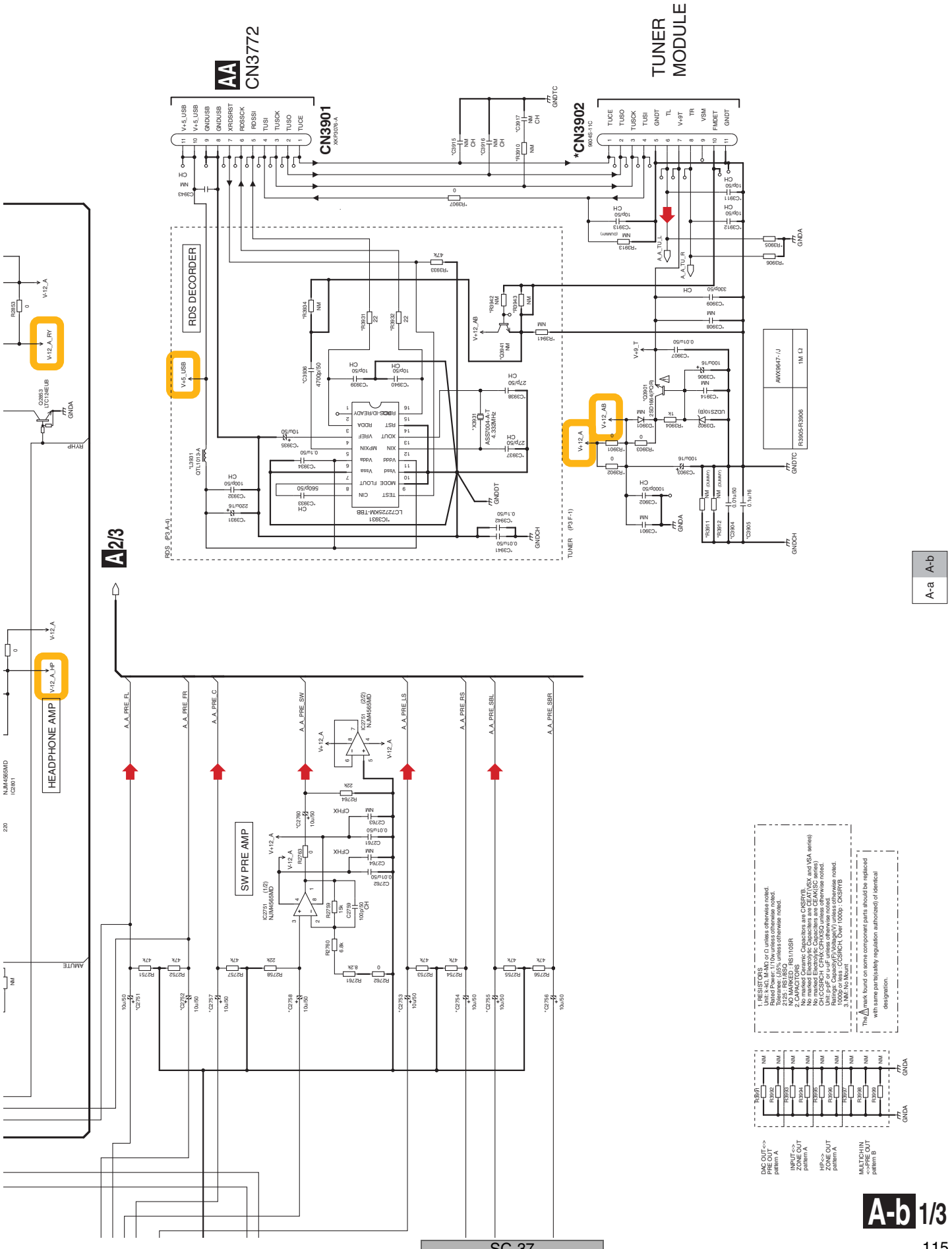


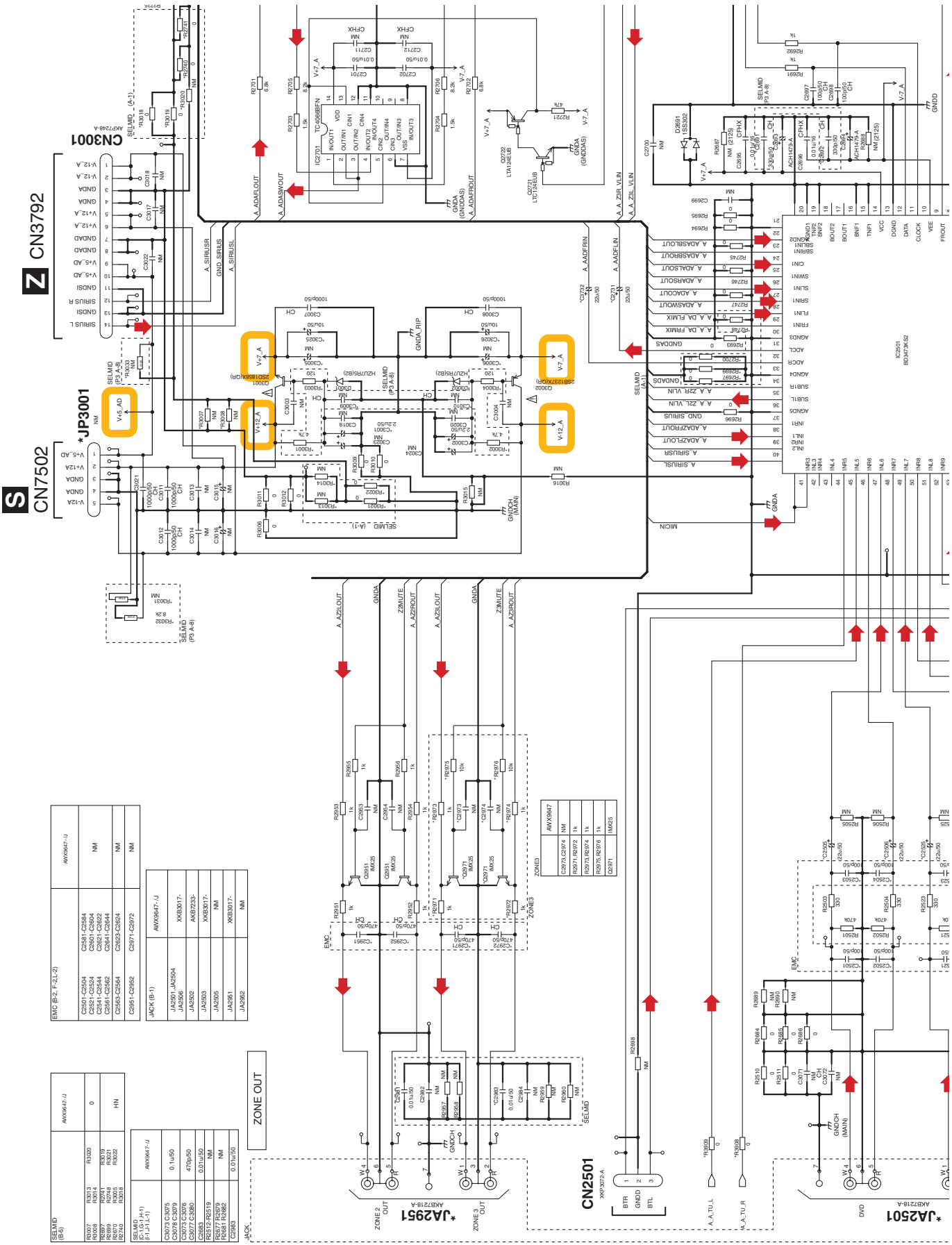


A 1/3 AUDIO ASSY (1/3) (AWX9647)




Z CN3794
CN2502
ZONE2 VOL PASS
SW DOWN MIX
SW DOWN MIX SELECT
IC5301
LSSN H L
IC5301(CONT) H L
SW DOWN MIX ON OFF
HEADPHONE AMP
V-12_A_HP
V-12_A_RY
AC CN7724
*CN2503
CN2861
AA CN3774
A 2/3
NM


AA CN3772
CN3901
*CN3902
TUNER MODULE
RDS DECODER
A2/3
HEADPHONE AMP
SW PRE AMP
A-b 1/3
SC-37
115



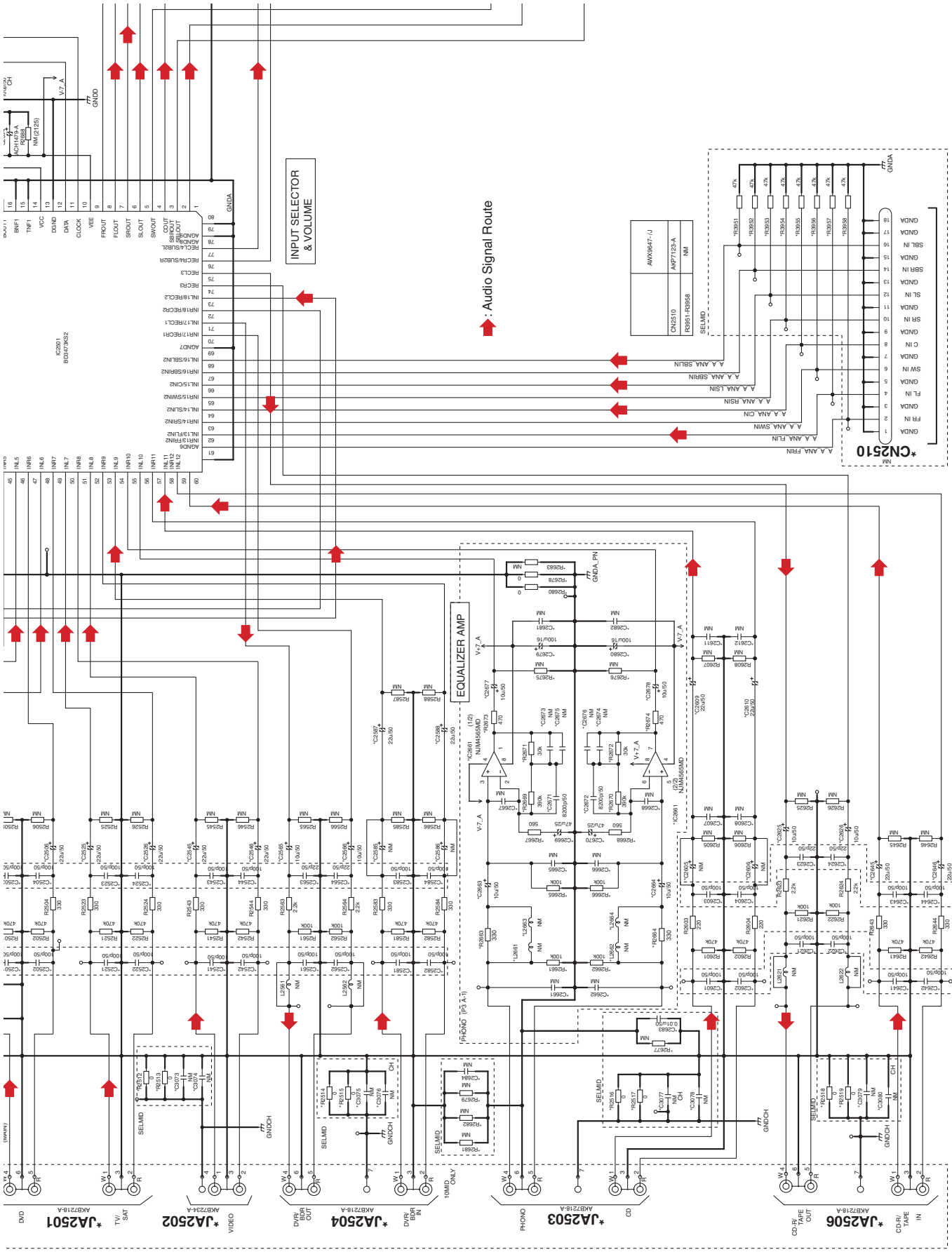
EMC (B-2, F-2,L-2)	AWX9647-/J
C2501-C2504	
C2521-C2524	
C2541-C2544	NM
C2561-C2562	
C2563-C2564	
C2951-C2952	NM
C2581-C2584	
C2601-C2604	
C2621-C2622	
C2641-C2644	NM
C2623-C2624	
C2971-C2972	NM

JACK (B-1)	AWX9647-/J	
JA2501, JA2504	XKB3017-	
JA2502		NM
JA2503	XKB3017-	
JA2505		NM
JA2951	XKB3017-	
JA2952		NM

SELMID (B-5)	AWX9647-/J	
R3013	R3020	0
R3014		
R2747	R3019	NM
R2748	R3021	
R3015	R3022	

SELMID (L-1, J-1, H-1)	AWX9647-/J	
C3073 C3075	0.1u/50	
C3078 C3079		
C3073 C3076	470p/50	
C3077 C3080		
C3071 C3072	0.01u/50	
R2512-R2519		NM
R2677 R2679	NM	
R2681 R2682		
C2983	0.01u/50	

ZONE3	AWX9647	
C2973,C2974	NM	
R2971,R2972	1k	
R2973,R2974	1k	
R2975,R2976	1k	
Q2971	IMX25	



A-a 1/3

A-a A-b

SC-37

10.2 AUDIO ASSY (2/3)

SELMID	AWX9647
C3053	ACH1480-A
C3054	ACH1480-A
C3055	0.01u/16
C3056	0.01u/16
C3057	1000p/50
C3058	1000p/50
R3051	0
R3052	0
R3053	NM
R3054	NM
CN3051	XKP3080-A
CN3052	NM

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/10w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2125 : RS1/8SQ
NO MARKED : RS1/10SR
2. CAPACITORS
No marked Ceramic Capacitors are CKSRYB.
No marked Electrolytic Capacitors are CEAT(VSX and VSA series)
No marked Electrolytic Capacitors are CEAK(SC series)
CH:CCSRCH CFH:CFHXSQ unless otherwise noted.
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
1000p or less : CCSRCH, Over 1000p : CKSRYB
3. NM: No Mount

PRE BUFFER

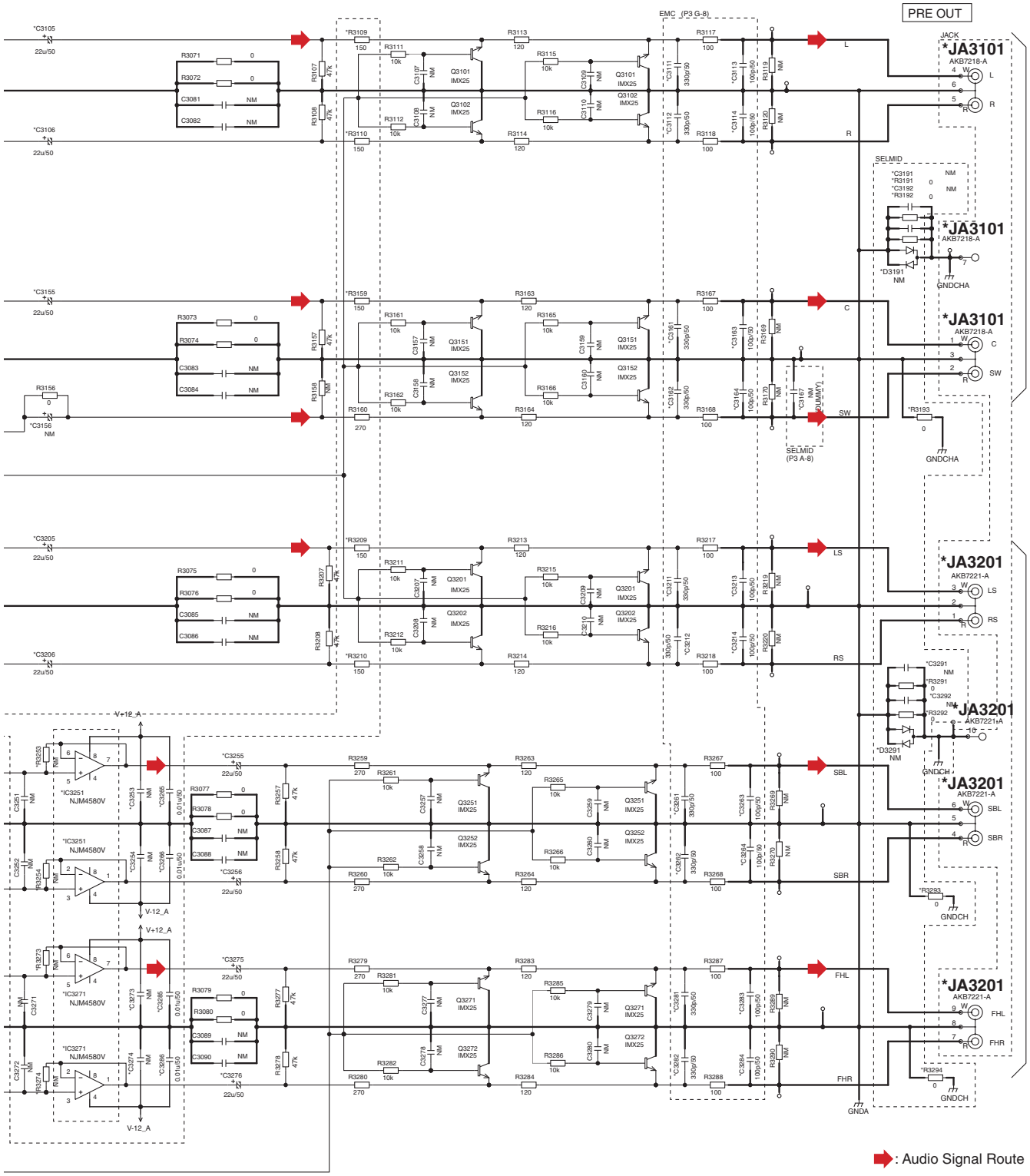
PL2z SELECTOR

PL2z	Surr Back	Front Hight
SB/FH SEL	H	L

A2/3 AUDIO ASSY (2/3) (AWX9647)

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

	AWX9647- /J
JA3101	XKB3017-
JA3201	XKB3037-



10.3 AUDIO ASSY (3/3)

NOTE
1. RESISTORS
Unit: k-kY , M-MY or Y unless otherwise noted.
Rated Power: 1/10w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2125 : RS1/8SQ
NO MARKED : RS1/10SR
2. CAPACITORS
No marked Ceramic Capacitors are CKSRYB.
No marked Electrolytic Capaciters are CEAT(VSX and VSA series)
No marked Electrolytic Capaciters are CEAK(SC series)
CH:CCSRCH CFHX:CFHXSQ unless otherwise noted.
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
1000p or less : CCSRCH, Over 1000p : CKSRYB
3. NM: No Mount

PHONO (P1 I-2)

	AWX9647- /J
C2661	NM
C2662	NM
C2663	10u/50
C2664	10u/50
C2665	NM
C2666	NM
C2667	NM
C2668	NM
C2669	47u/25
C2670	47u/25
C2671	8200p/50
C2672	8200p/50
C2673	1200p/50
C2674	1200p/50
C2675	1200p/50
C2676	1200p/50
C2677	10u/50
C2678	10u/50
C2679	100u/16
C2680	100u/16
C2681	0.1u/16
C2682	0.1u/16
R2661	100k
R2662	100k
R2663	330
R2664	330
R2665	100k
R2666	100k
R2667	560
R2668	560
R2669	390k
R2670	390k
R2671	30k
R2672	30k
R2673	470
R2674	470
R2675	NM
R2676	NM
R2678	0
R2680	0
R2683	NM
L2661	NM
L2662	NM
L2663	NM
L2664	NM
IC2661	NJM4565MD

TUNER (P1 J-13)

	AWX9647- /J
C3901	NM
C3902	1000p/50
C3903	100u/16
C3904	0.01u/50
C3905	0.1u/16
C3906	100u/16
C3907	0.01u/50
C3908	NM
C3909	330p/50
C3911	10p/50
C3912	10p/50
C3913	10p/50
C3914	NM
C3915	NM
C3916	NM
C3917	NM
R3901	0
R3902	0
R3903	0
R3904	1k
R3905	1M
R3906	1M
R3907	0
R3910	NM
R3911	NM
R3912	NM
R3913	NM
CN3902	9604S-11C
D3901	NM
D3902	UDZS10(B)
Q3901	2SD1664(PQR)

RDS (P1 G-13)

	AWX9647- /J
C3931	NM
C3932	1000p/50
C3933	NM
C3934	0.01u/50
C3935	NM
C3936	NM
C3937	NM
C3938	NM
C3939	100p/50
C3940	100p/50
C3941	NM
C3942	NM
R3931	0
R3932	0
R3933	0
R3934	NM
R3941	NM
R3942	NM
R3943	NM
L3931	QTL1013-A
IC3931	NM
Q3941	NM
X3931	NM

PREBUFFER (P2 B-5)

	AWX9647- /J
C3103	0.01u/16
C3104	0.01u/16
C3115	NM
C3116	NM
C3153	0.01u/16
C3154	0.01u/16
C3165	NM
C3166	NM
C3203	0.01u/16
C3204	0.01u/16
C3215	NM
C3216	NM
C3253	0.01u/16
C3254	0.01u/16
C3265	NM
C3266	NM
C3273	0.01u/16
C3274	0.01u/16
C3285	NM
C3286	NM
R3101	100
R3102	100
R3103	NM
R3104	NM
R3109	270
R3110	270
R3151	100
R3153	NM
R3154	0
R3159	270
R3201	100
R3202	100
R3203	NM
R3204	NM
R3209	270
R3210	270
R3253	NM
R3254	NM
R3273	NM
R3274	NM
IC3101	NJM4580V
IC3151	NJM4580V
IC3201	NJM4580V
IC3251	NJM4580V
IC3271	NJM4580V

A3/3 AUDIO ASSY (3/3) (AWX9647)

ɔd.

3.
(VSX and VSA series)
(SC series)
wise noted.

wise noted.
RYB

SELMID (P1, P2)

	SC-37 Series /UXJCB,/CUXJ
	AWX9647- /J
C2852	NM
C2853	NM
C2861	NM
C2862	NM
R2861	0
R2863	0
R3031	NM
R3032	8.2k
R3033	NM
R3001	4.7k
R3002	4.7k
R3003	120
R3004	120
C3009	NM
C3010	NM
C3051	1000p/50
C3052	1000p/50
C2707	10u/50
C2708	10u/50
C2691	330p/50
C2692	330p/50
C3167	NM

647- /J

EMC (P2 B-10)

	AWX9647- /J
C3111	NM
C3112	NM
C3113	NM
C3114	NM
C3161	NM
C3162	NM
C3163	NM
C3164	NM
C3211	NM
C3212	NM
C3213	NM
C3214	NM
C3261	NM
C3262	NM
C3263	NM
C3264	NM
C3281	NM
C3282	NM
C3283	NM
C3284	NM

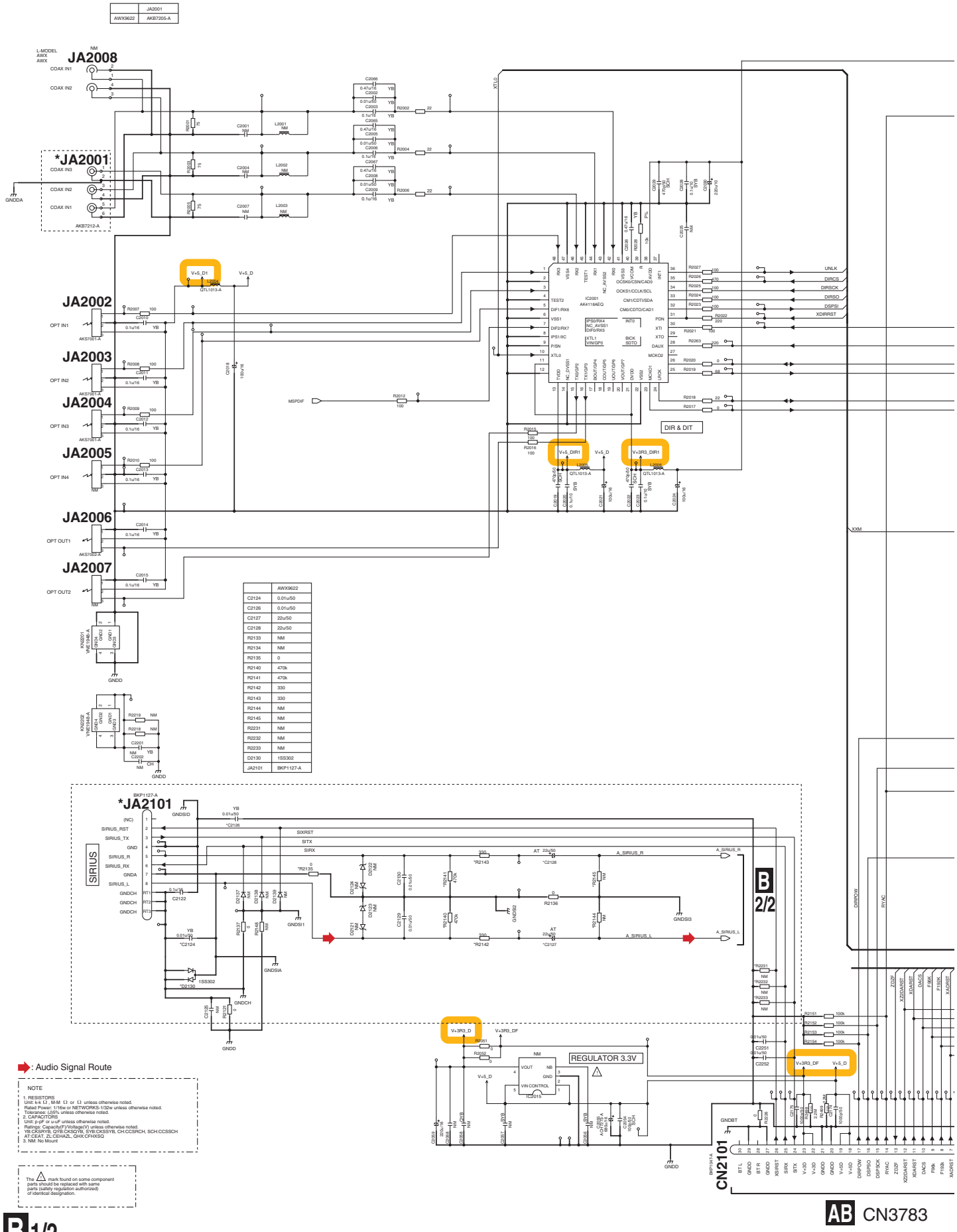
CONNECTOR (P1 A-4, A-15)

	AWX9647- /J
CN2503	52044-1545
JP3001	ADX7730-A
JP3002	NM
CN2504	NM
JH2505	NM
JP2505	NM

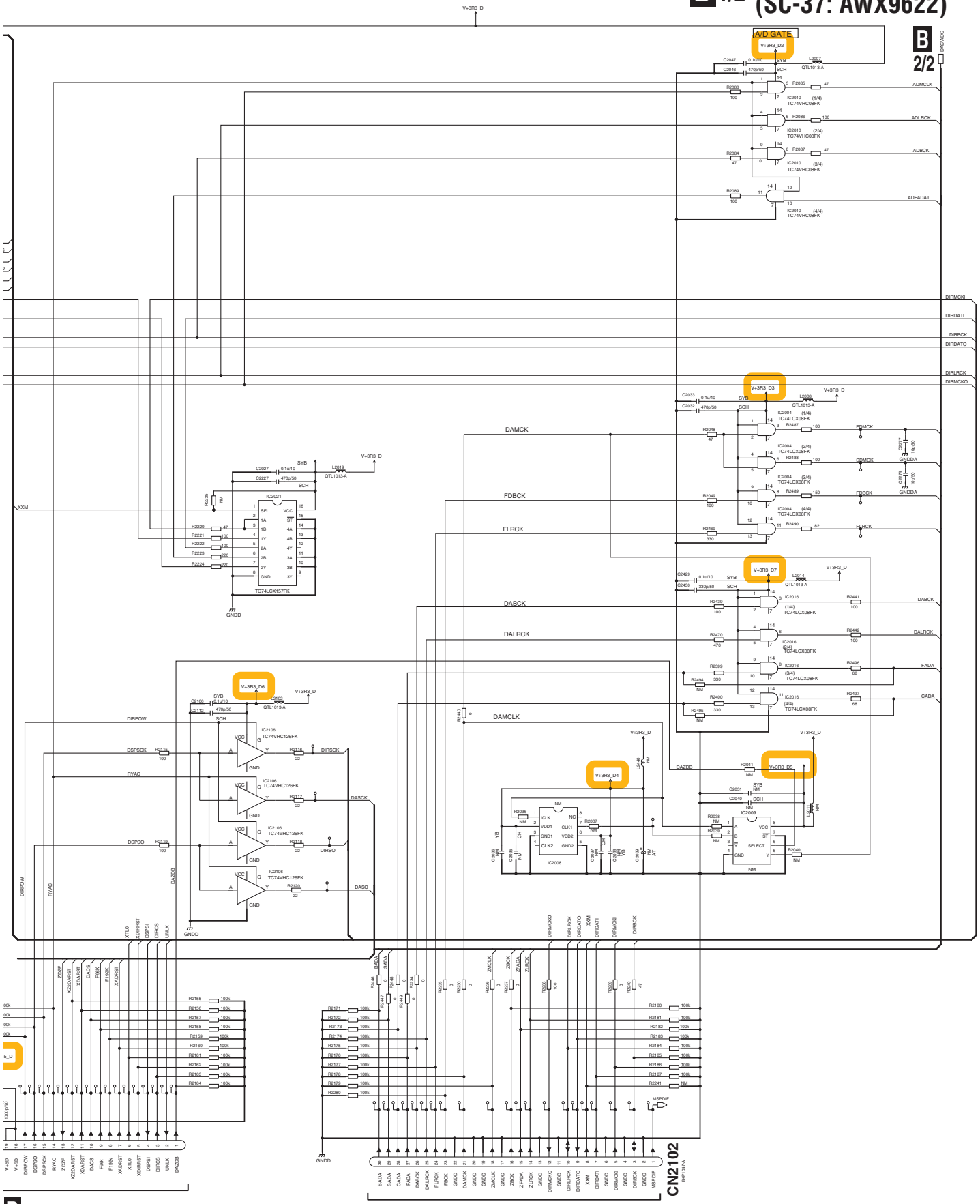
SELMID (P2 C-11)

	AWX9647- /J
C3191	0.1u/50
C3192	470p/50
C3291	0.1u/50
C3292	470p/50
R3191	NM
R3192	NM
R3193	NM
R3291	NM
R3292	NM
R3293	NM
R3294	NM
D3191	NM
D3291	NM

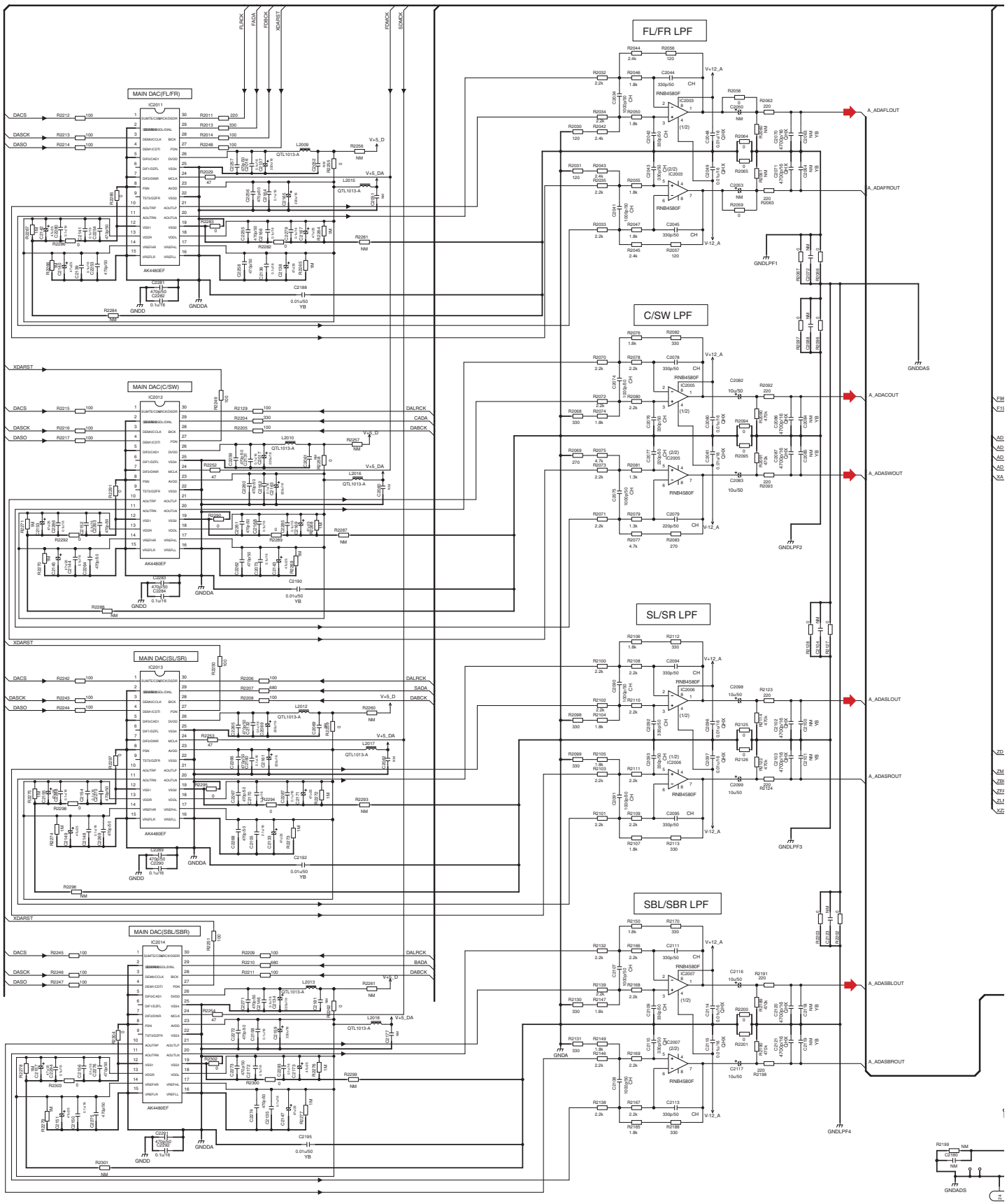
10.4 DAC HIGH ASSY (1/2) (SC-37)



B1/2 DAC HIGH ASSY (1/2) (SC-37: AWX9622)



10.5 DAC HIGH ASSY (2/2) (SC-37)



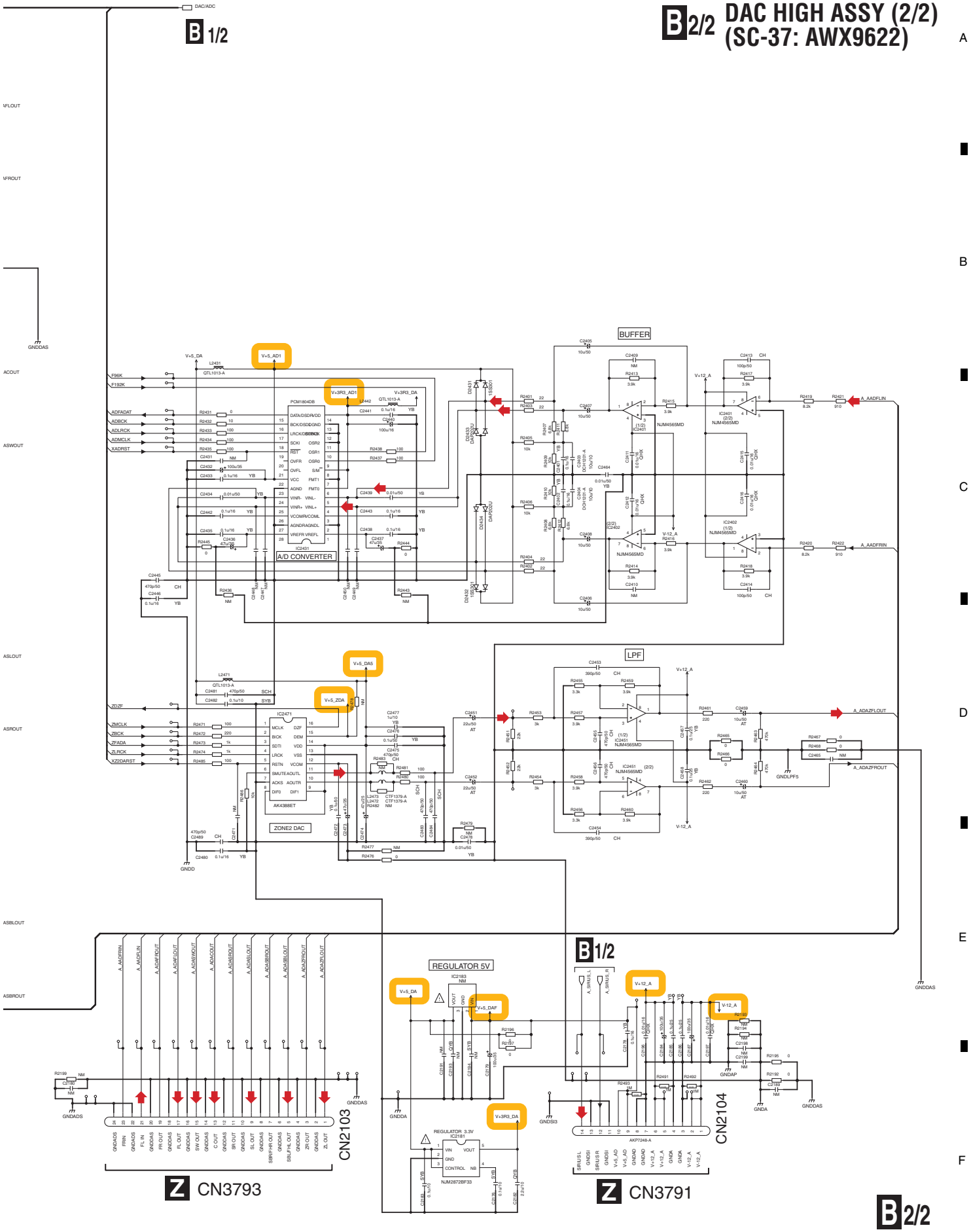
NOTE

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

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

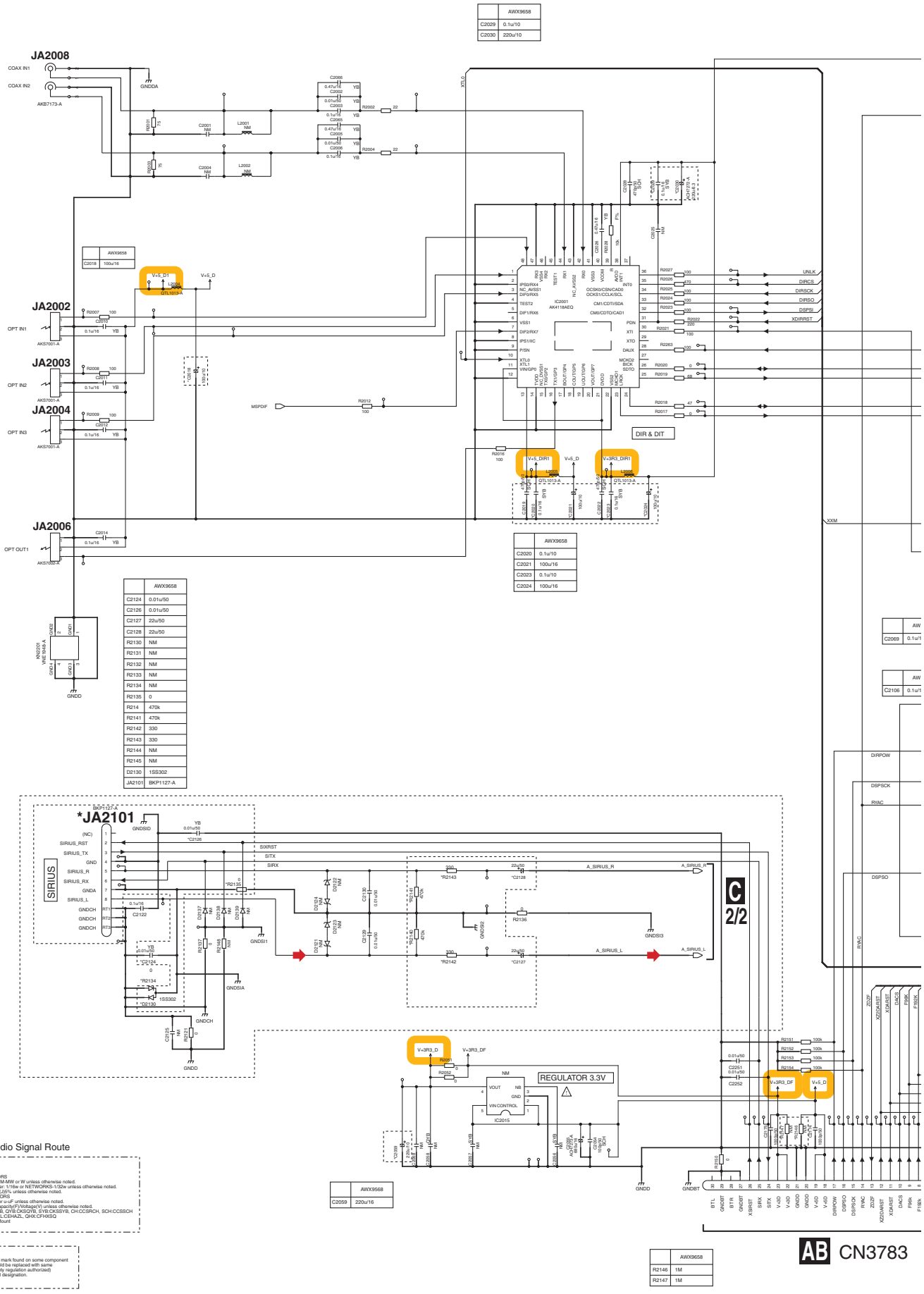
B2/2 DAC HIGH ASSY (2/2) (SC-37: AWX9622)

B 1/2



SC-37

10.6 DAC LOW ASSY (1/2) (SC-35, SC-1525-K)



	AWX9658
C2029	0.1u/10
C2030	220u/10

	AWX9658
C2018	100u/16

	AWX9658
C2020	0.1u/10
C2021	100u/16
C2023	0.1u/10
C2024	100u/16

	AWX9658
C2124	0.01u/50
C2126	0.01u/50
C2127	22u/50
C2128	22u/50
R2130	NM
R2131	NM
R2132	NM
R2133	NM
R2134	NM
R2135	0
R214	470k
R2141	470k
R2142	330
R2143	330
R2144	NM
R2145	NM
D2130	1SS302
JA2101	BKP1127-A

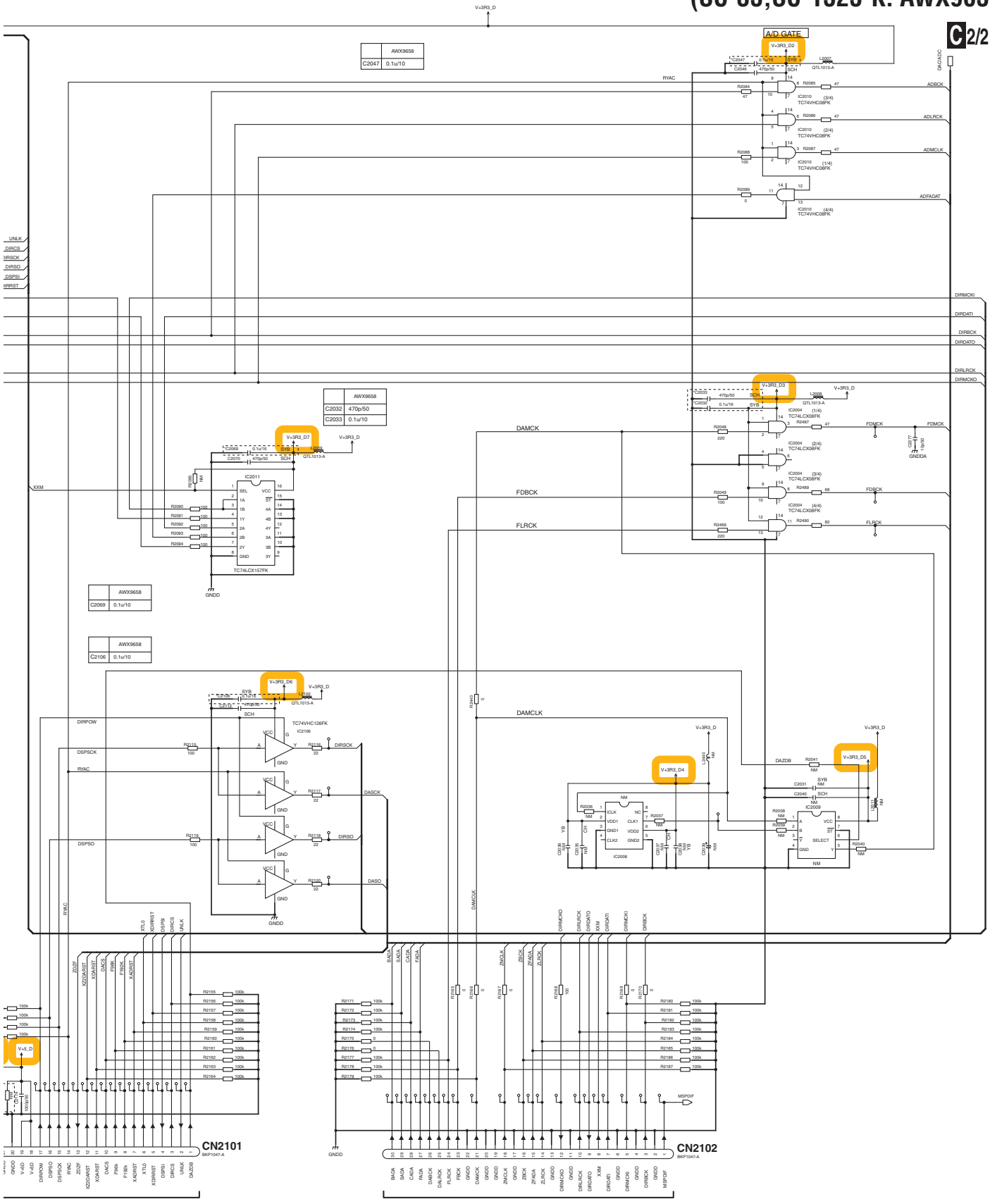
	AWX9658
C2059	220u/16

	AWX9658
R2146	1M
R2147	1M

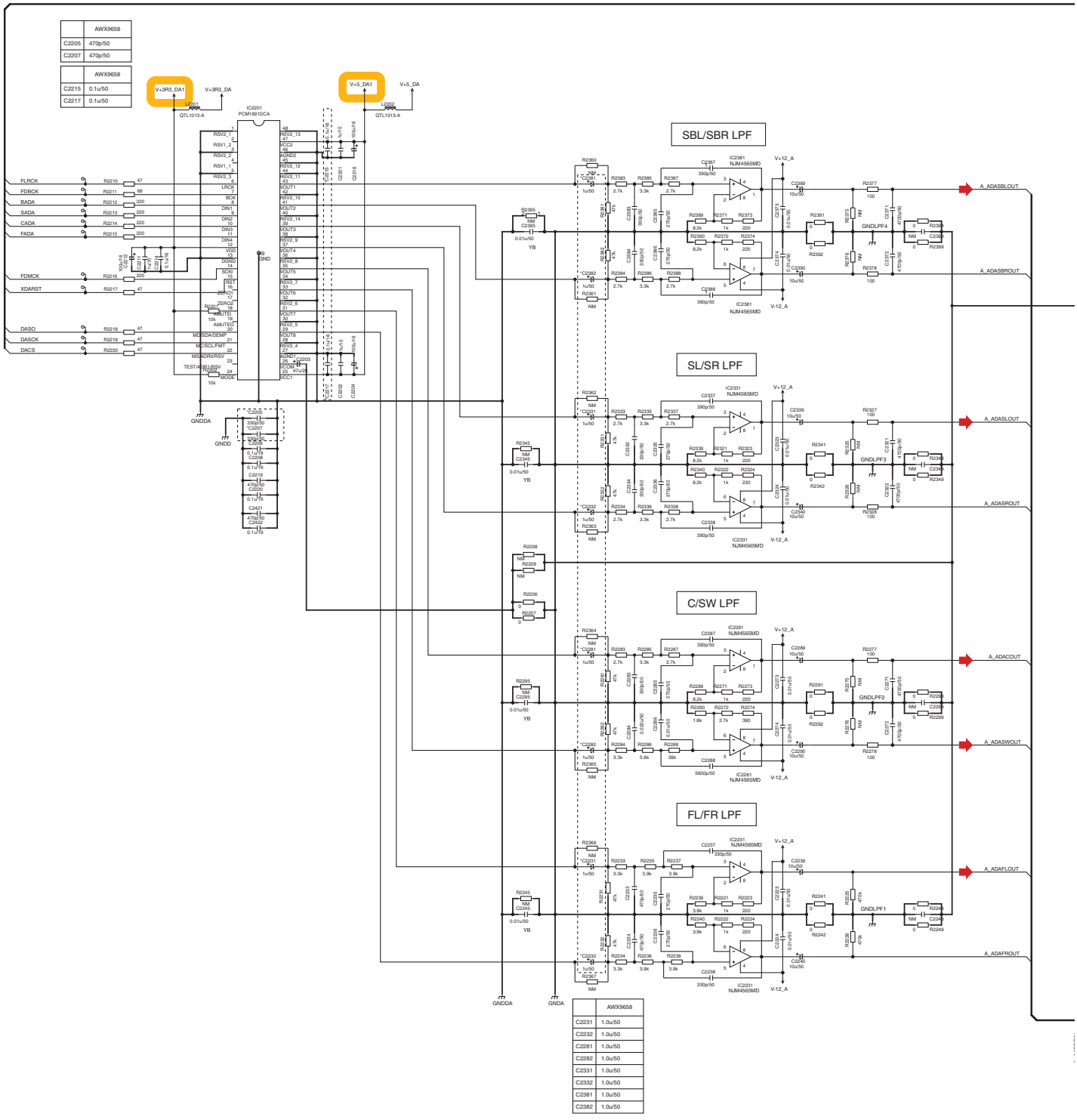
NOTE
1. RESISTORS
Unit: k-kW, M-MW or W unless otherwise noted.
Rated Power: 1/16w or NETWORKS-1/32w unless otherwise noted.
Tolerance: J:5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, QYB:CKSQYB,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

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

C1/2 DAC LOW ASSY (1/2) (SC-35,SC-1525-K: AWX9658)



10.7 DAC LOW ASSY (2/2) (SC-35, SC-1525-K)



	AWX9658
C2205	470p/50
C2207	470p/50

	AWX9658
C2215	0.1u/50
C2217	0.1u/50

	AWX9658
C2231	1.0u/50
C2232	1.0u/50
C2281	1.0u/50
C2282	1.0u/50
C2331	1.0u/50
C2332	1.0u/50
C2381	1.0u/50
C2382	1.0u/50

	AWX9658
C2181	100u/16
C2195	100u/16
R2138	1M
R2200	1M

: Audio Signal Route

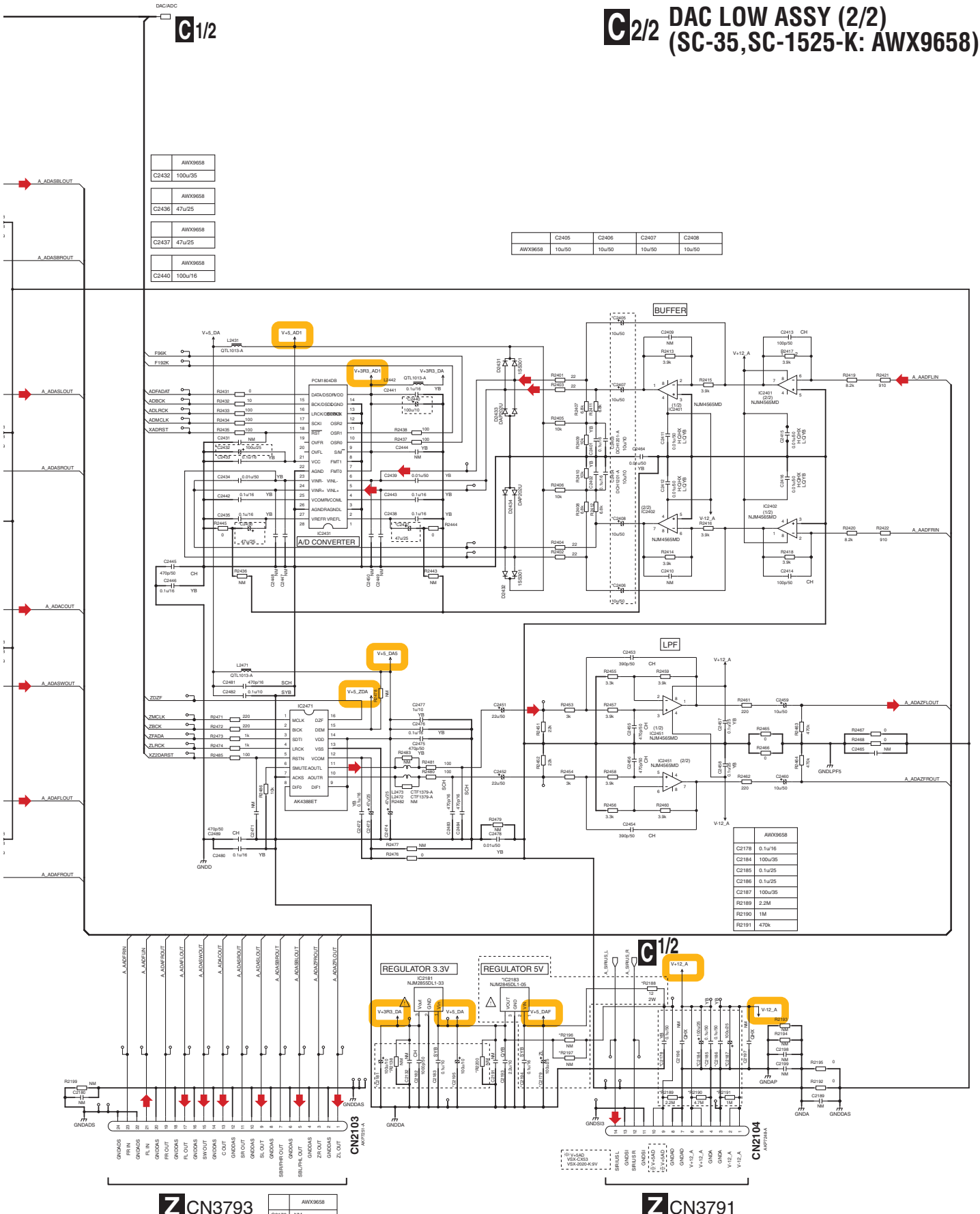
NOTE

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

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

C2/2

C2/2 DAC LOW ASSY (2/2) (SC-35,SC-1525-K: AWX9658)



	AWX9658
C2432	100u/35

	AWX9658
C2436	47u/25

	AWX9658
C2437	47u/25

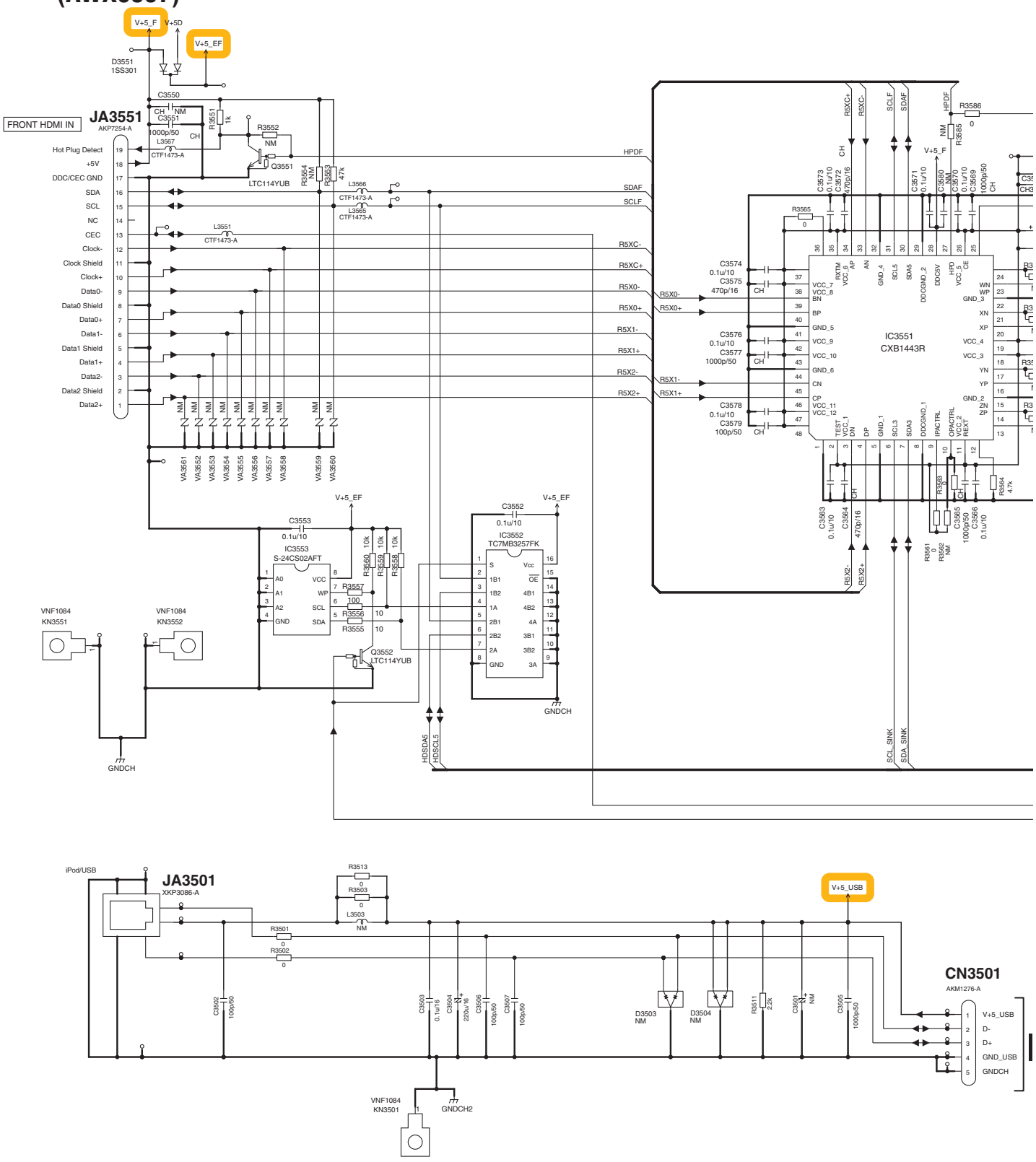
	AWX9658
C2440	100u/16

	C2405	C2406	C2407	C2408
AWX9658	10u/50	10u/50	10u/50	10u/50

	AWX9658
C2178	0.1u/16
C2184	100u/35
C2185	0.1u/25
C2186	0.1u/25
C2187	100u/35
R2189	2.2M
R2190	1M
R2191	470k

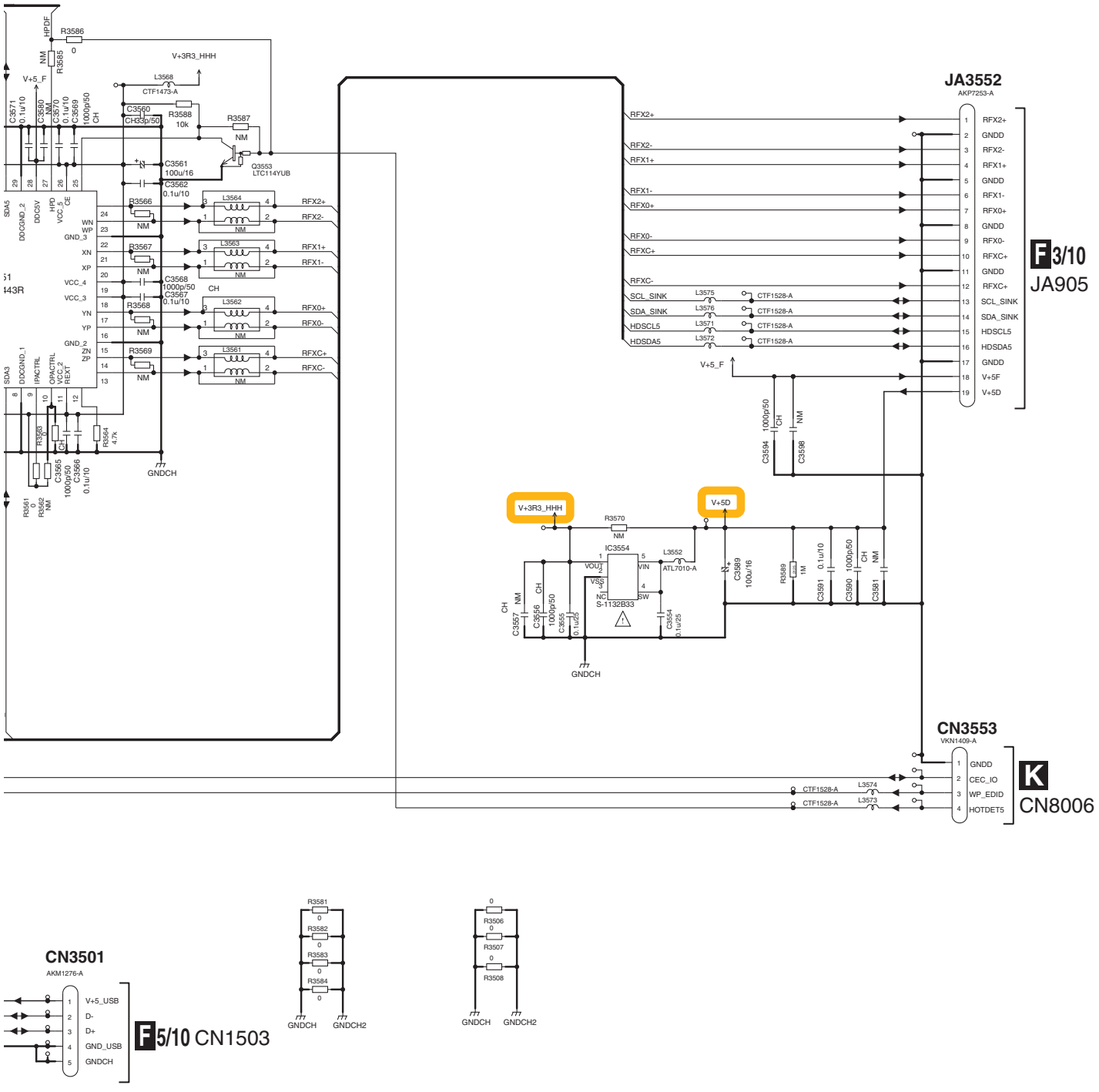
	AWX9658
C2179	NM
C2194	NM
C2188	NM
R2196	0
R2197	0
IC2183	NM

D FRONT HDMI ASSY (AWX9597)



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

NOTE
1. RESISTORS
Unit: k-k Ω, M-M Ω or Ω unless o
Rated Power: 1/16w unless otherwise r
Toleranee: (J)5% unless otherwise note
2. CAPACITORS
No marked Capacitors are CEAT or CK
CH: CCSRCH or CCSSCH
Unit: p-pF or u-uF unless otherwise not
Ratings: Capacity(F)/Voltage(V) unless
3. NM: No Mount



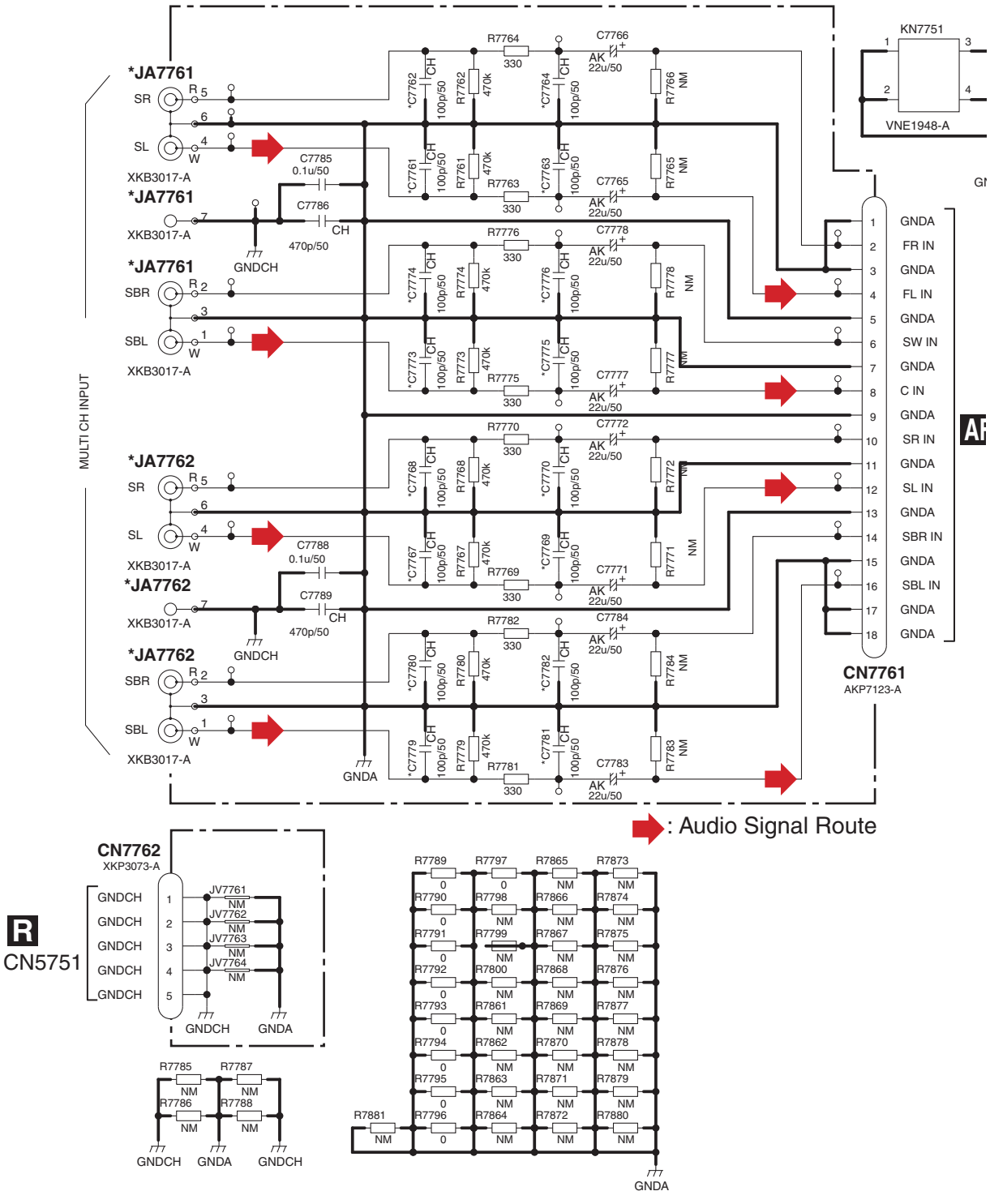
NOTE

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
No marked Capacitors are CEAT or CKSRYB or CKSSYB.
CH: CCSRCH or CCSSCH
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

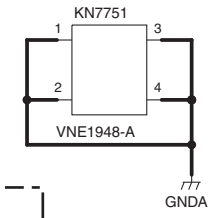
10.9 MULTI CH IN ASSY

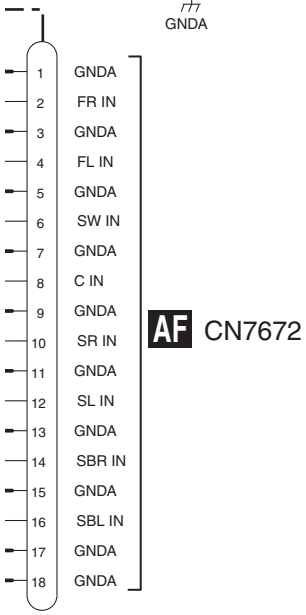
E MULTI CH ASSY (AWX9616)

MULTI CH IN



	AWX9616
C7761	NM
C7762	NM
C7763	NM
C7764	NM
C7767	NM
C7768	NM
C7769	NM
C7770	NM
C7773	NM
C7774	NM
C7775	NM
C7776	NM
C7779	NM
C7780	NM
C7781	NM
C7782	NM
JA7761	XKB3017-A
JA7762	XKB3017-A





AF CN7672

CN7761
AKP7123-A

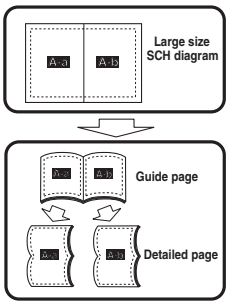
ute

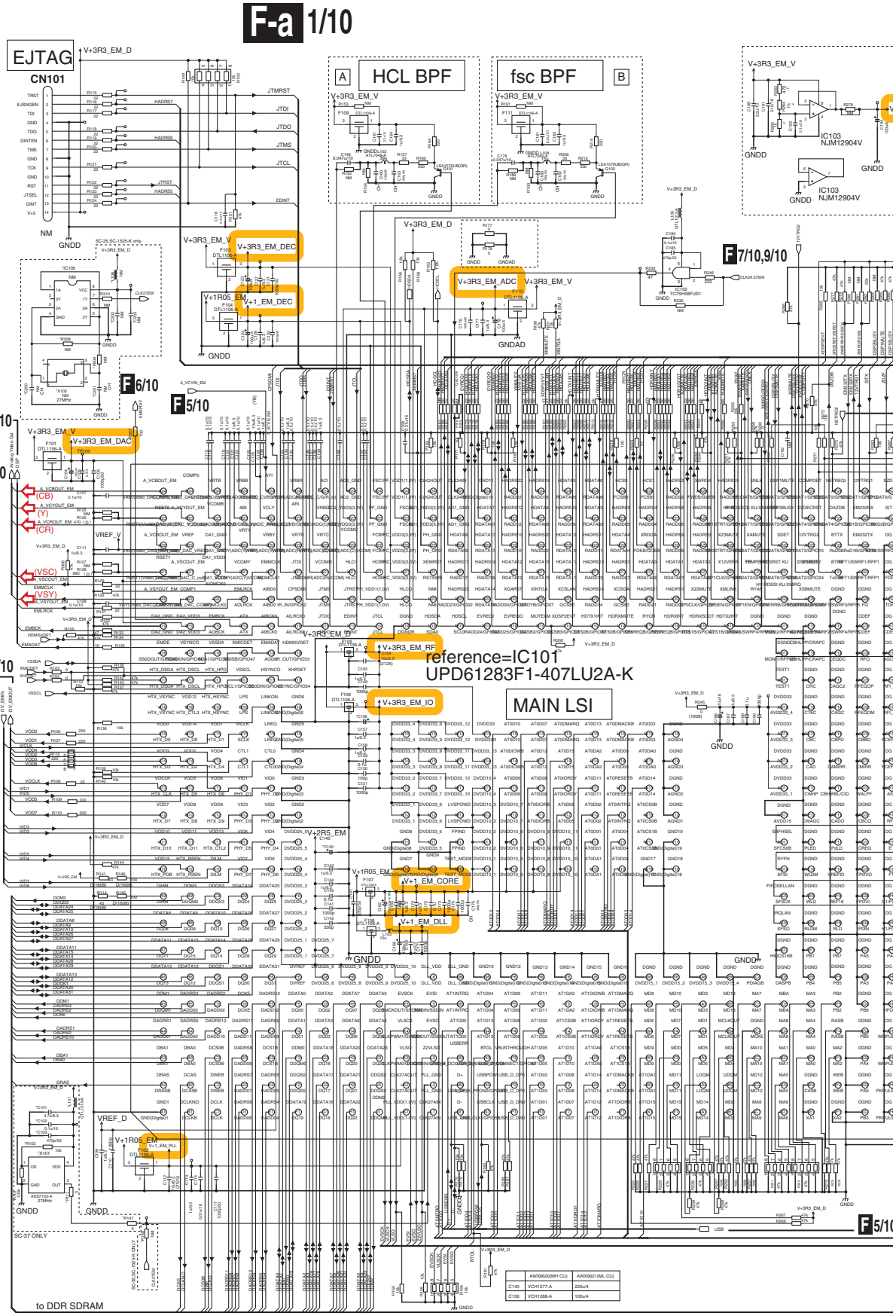
NOTE

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

5 6 7 8

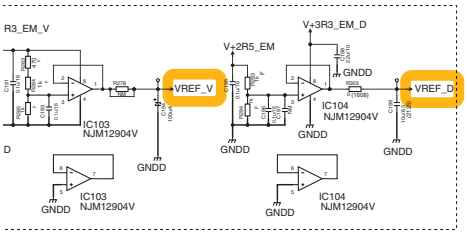
10.10 DIGITAL MAIN ASSY (1/10)(GUIDE PAGE)

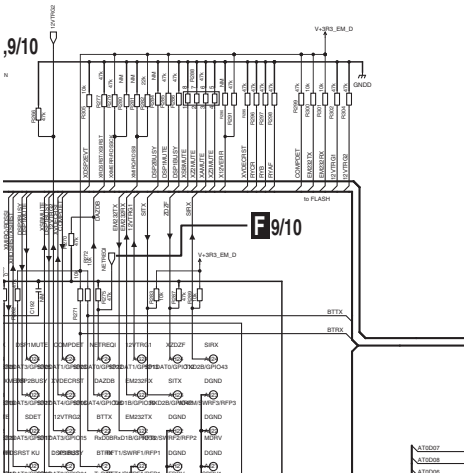


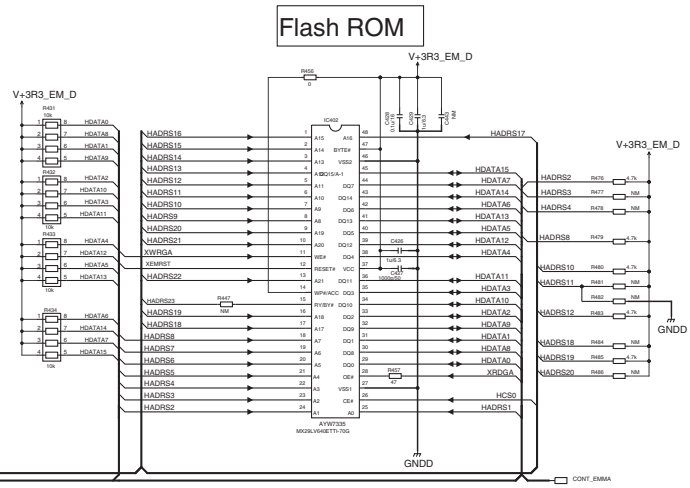


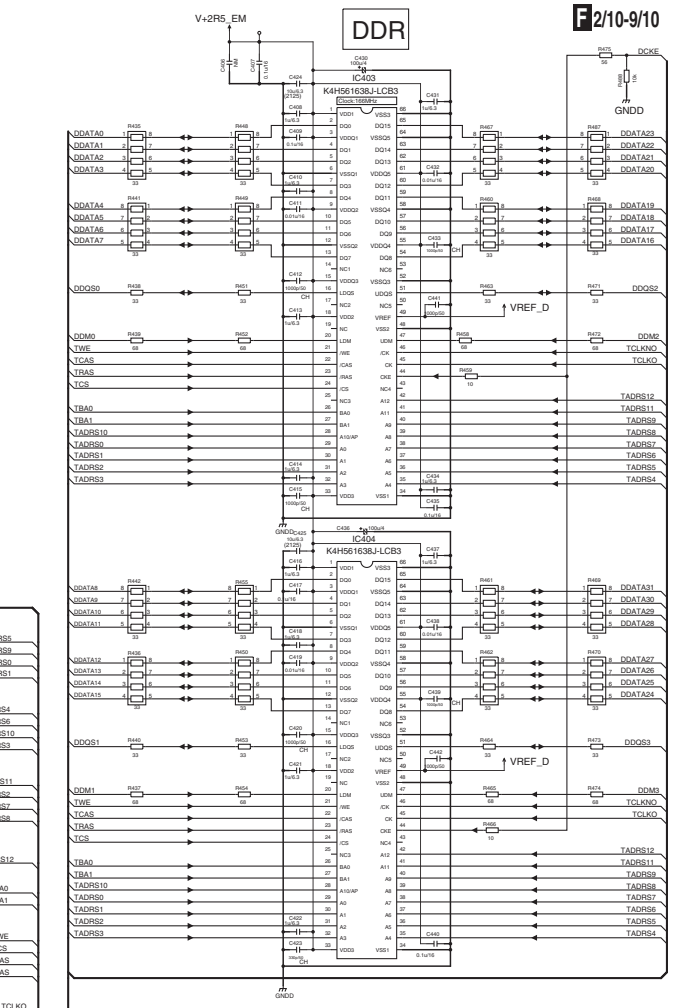
F 1/10 DIGITAL MAIN ASSY (1/10) (SC-37: AWX9620) (SC-35,SC-1525-K: AWX9621)

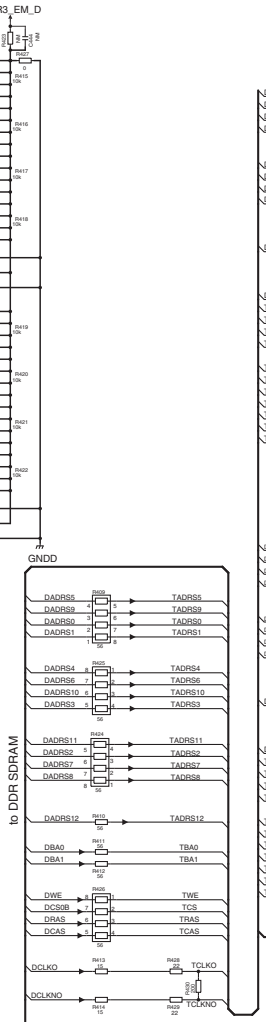
F-b 1/10







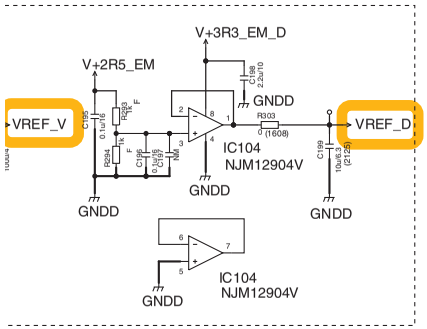




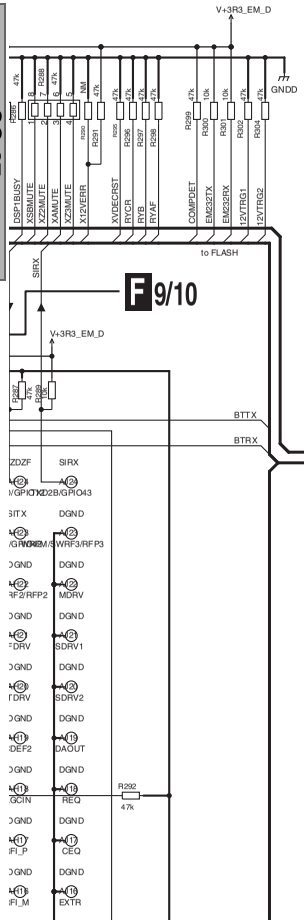
(VSC)(VSY): Video Signal Route
(CB): Video Signal Route
(CR): Video Signal Route
(F): Video Signal Route

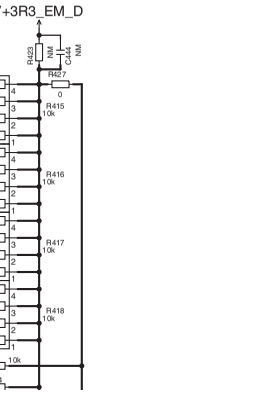
F 1/10

F 1/10 DIGITAL MAIN ASSY (1/10) (SC-37: AWX9620) (SC-35,SC-1525-K: AWX9621)

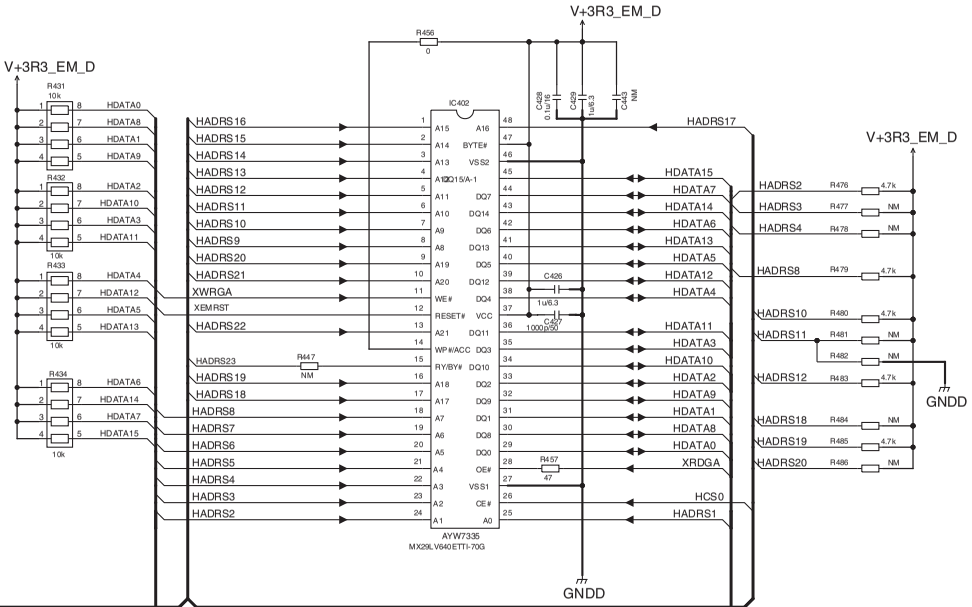


SC-37

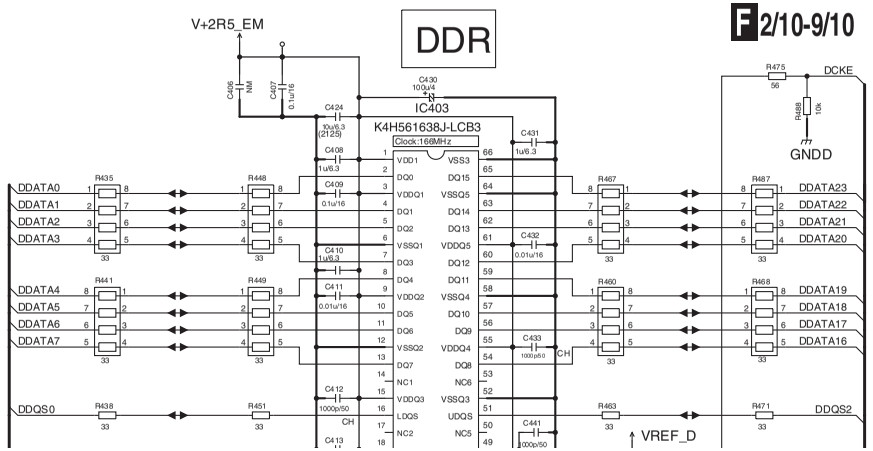




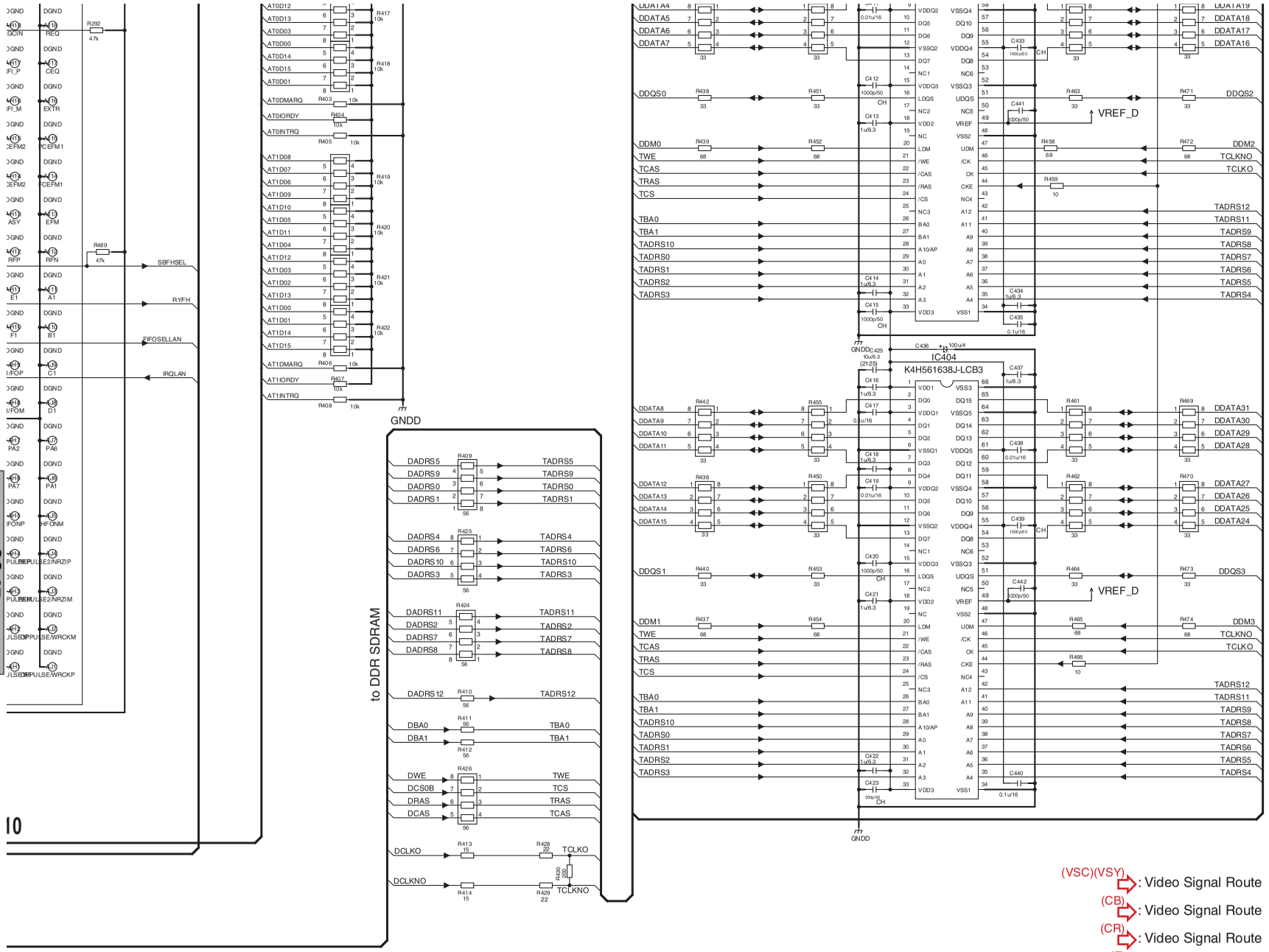
Flash ROM

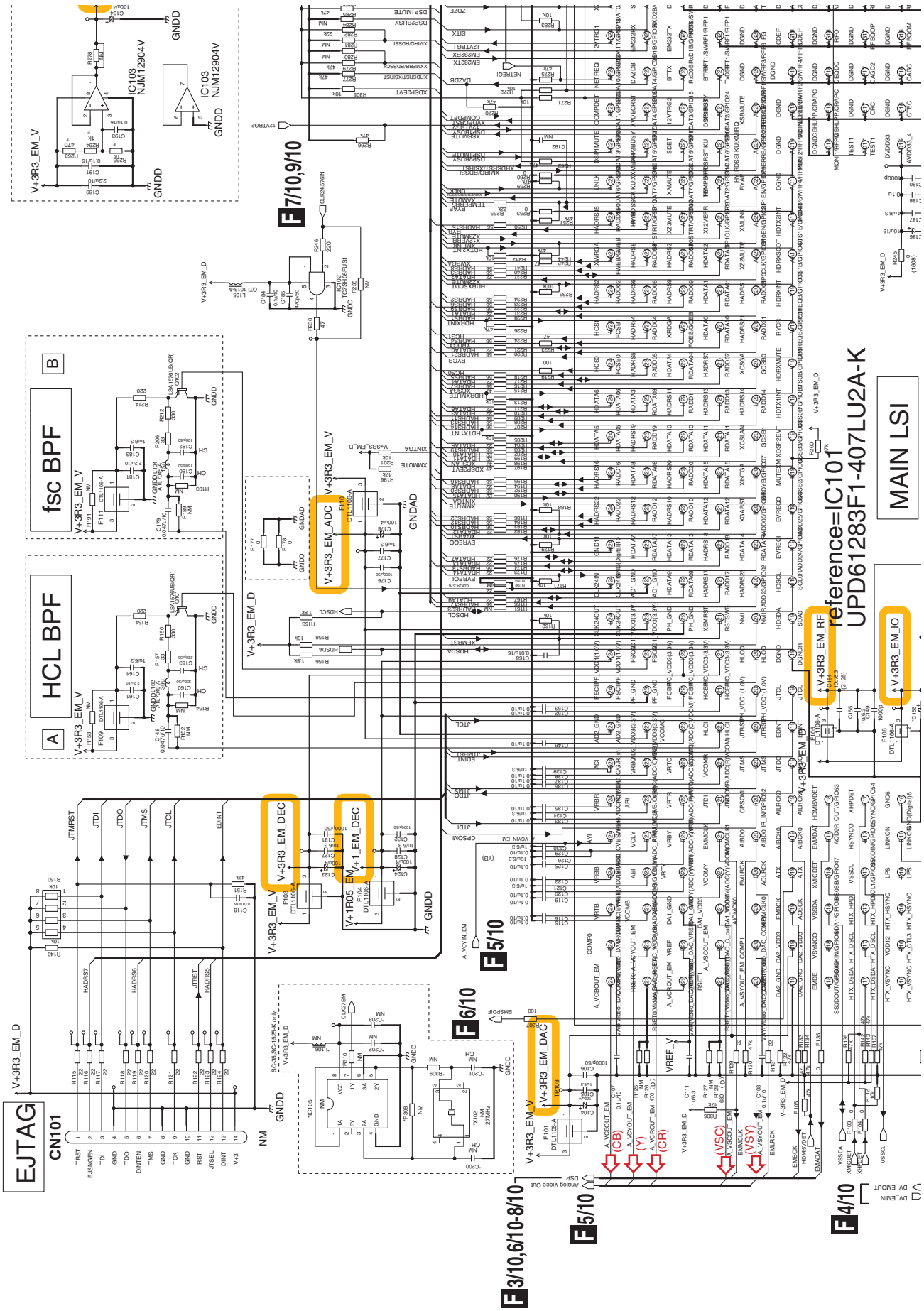


DDR



F 2/10-9/10


IC404
K4H561638J-LCB3
GNDD
to DDR SDRAM
SBFHSEL
RYFH
FIFOSELLAN
IRQLAN
VREF_D
(VSC)(VSY): Video Signal Route
(CB): Video Signal Route
(CR): Video Signal Route
(F): Video Signal Route

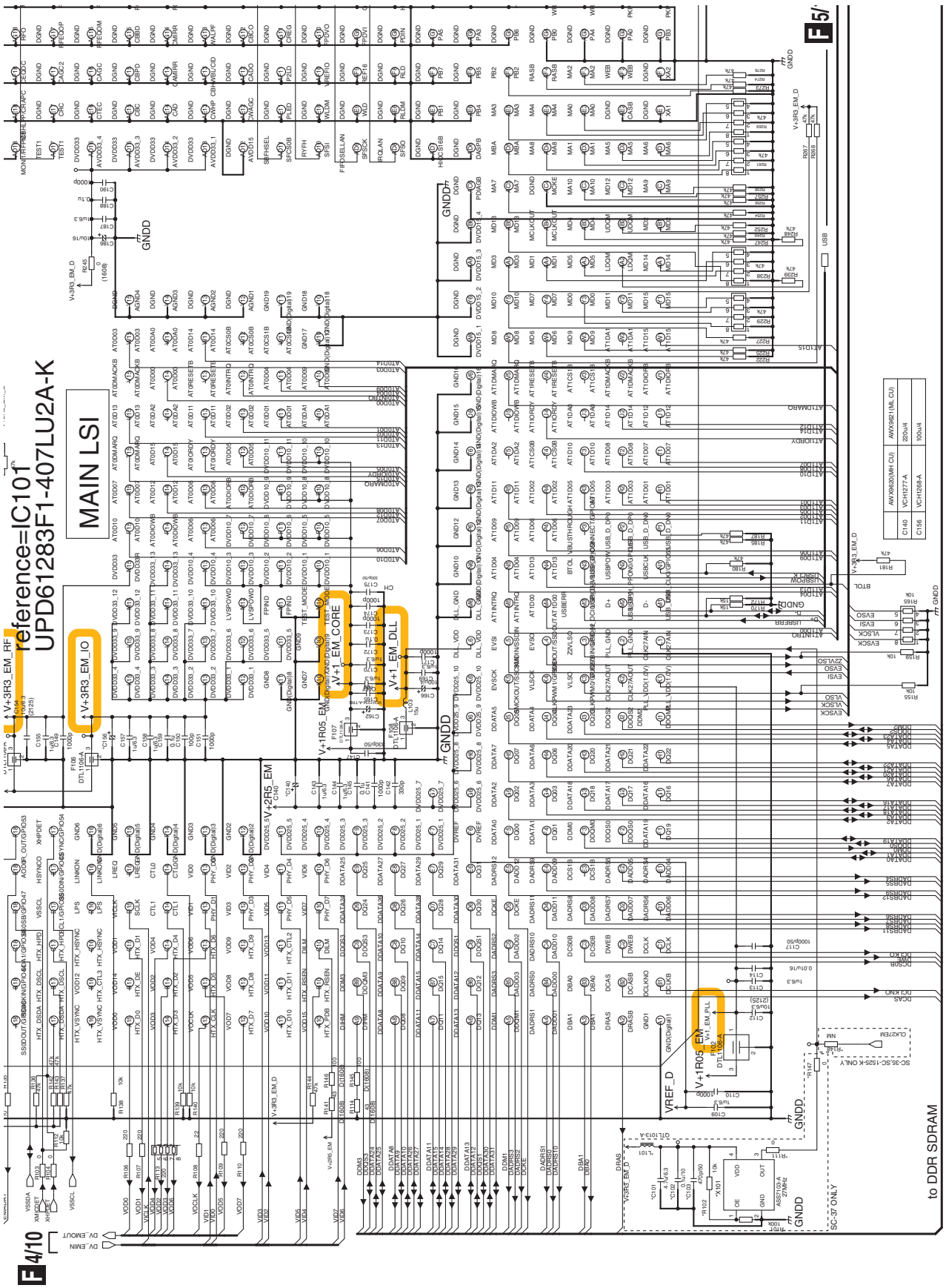


A-a A-b

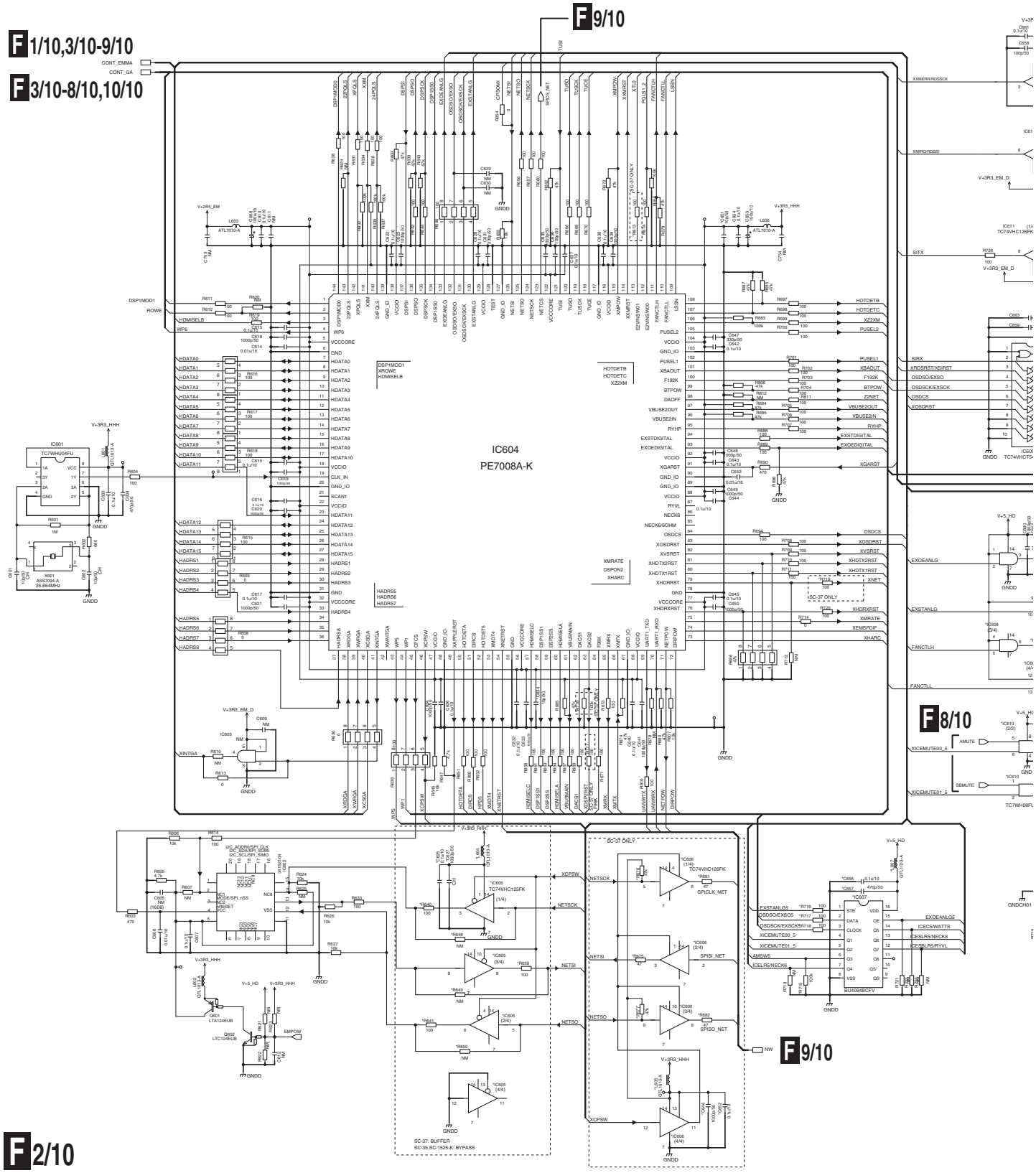
F-a 1/10

138

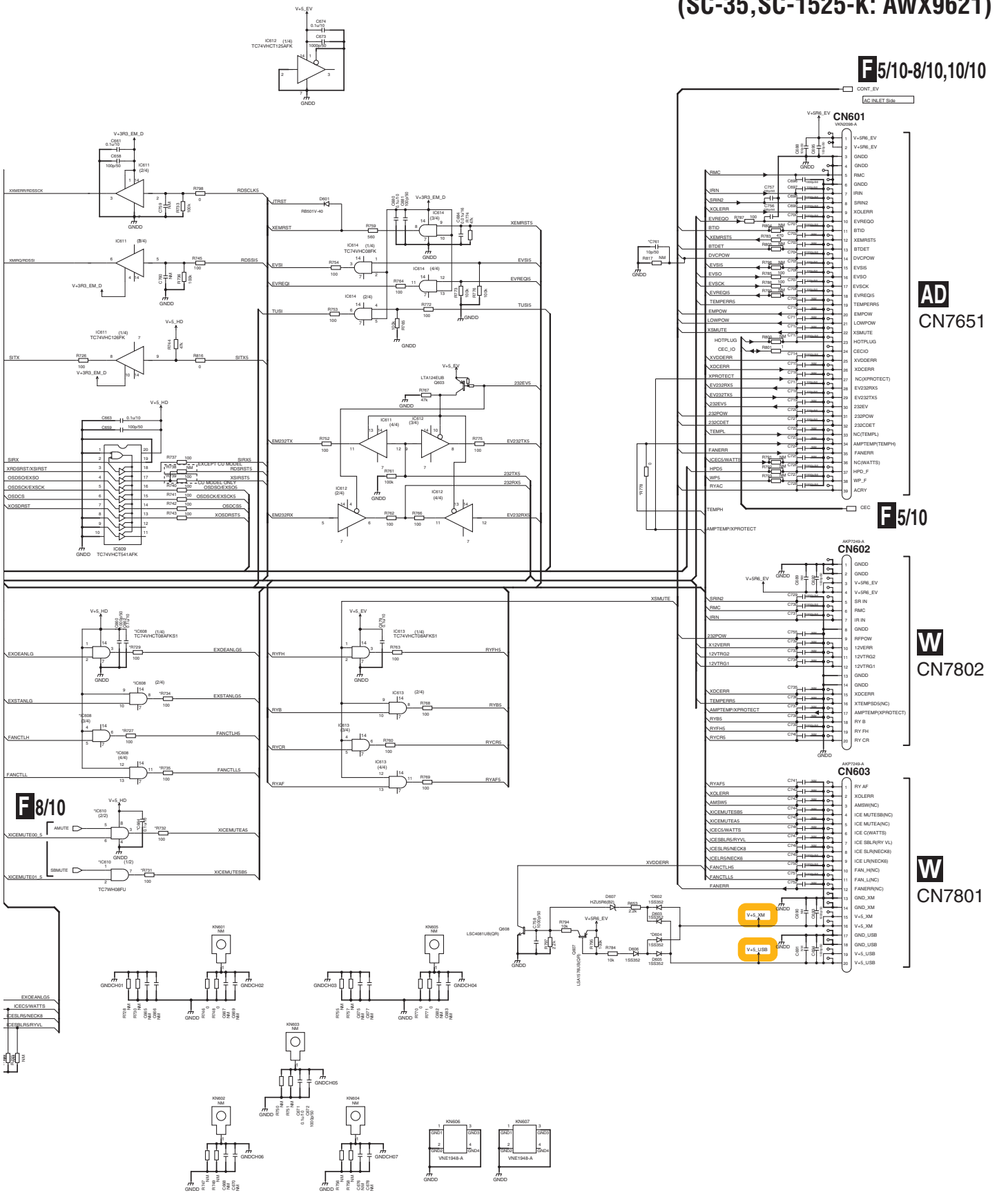
SC-37


reference=IC101
UPD61283F1-407LU2A-K
MAIN LSI
V+3R3_EM_RF
V+3R3_EM_IO
V+1_EM_CORE
V+1_EM_DLL
V+1R05_EM
V+2R5_EM
GNDD
VREF_D
to DDR SDRAM
SC-37 ONLY
F 4/10
F 5/
A-a
A-b

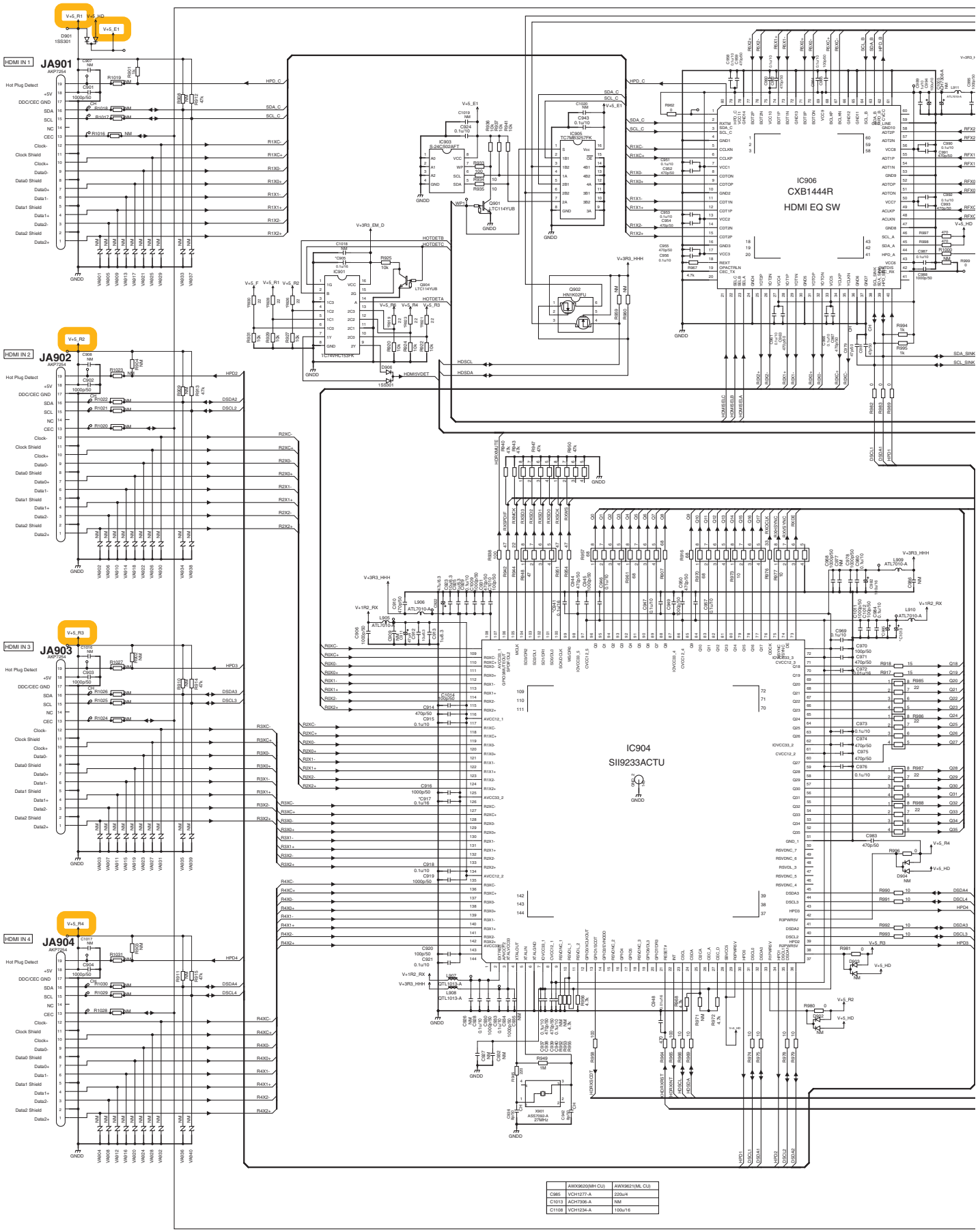
10.11 DIGITAL MAIN ASSY (2/10)



F 2/10 DIGITAL MAIN ASSY (2/10) (SC-37: AWX9620) (SC-35,SC-1525-K: AWX9621)

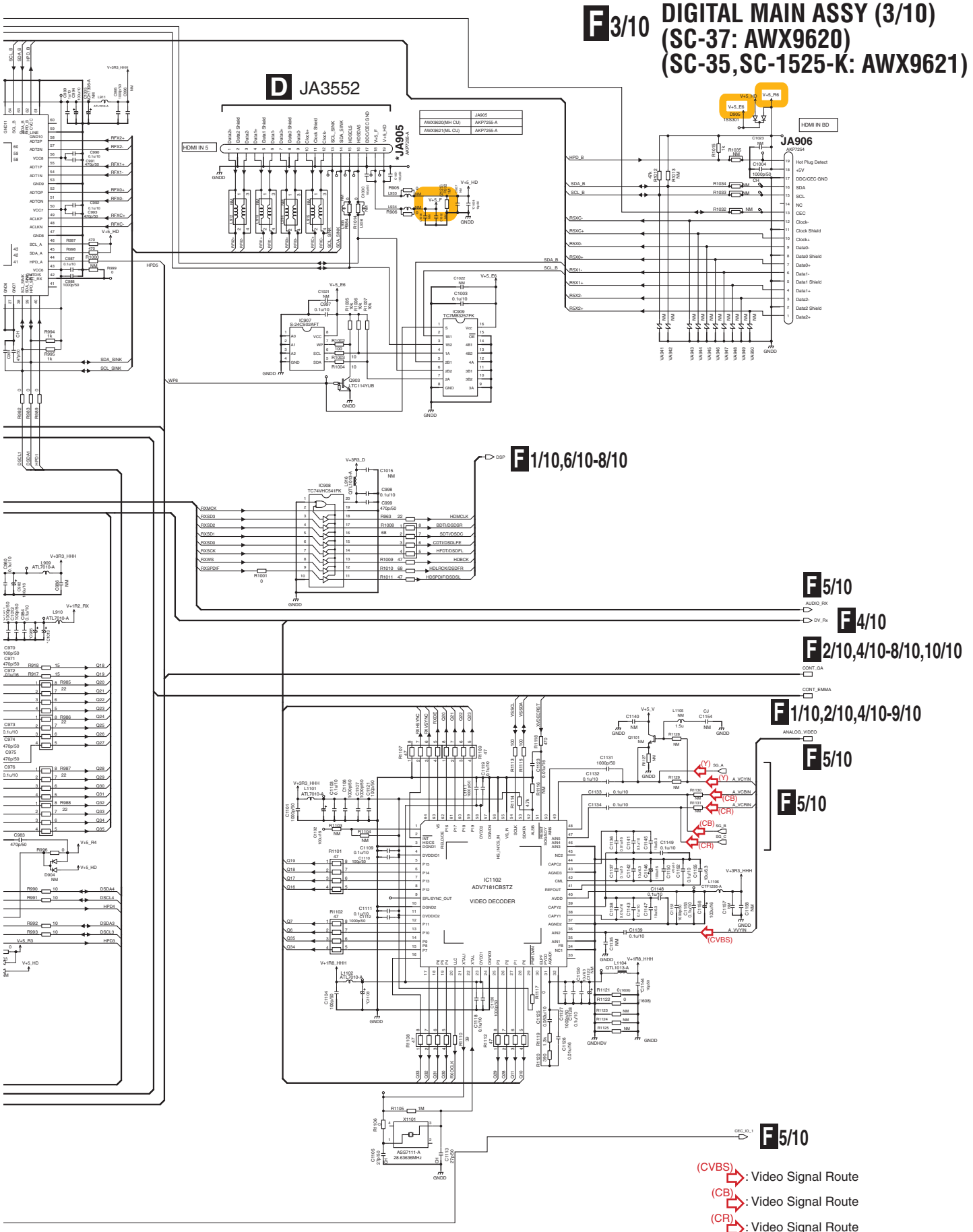


10.12 DIGITAL MAIN ASSY (3/10)

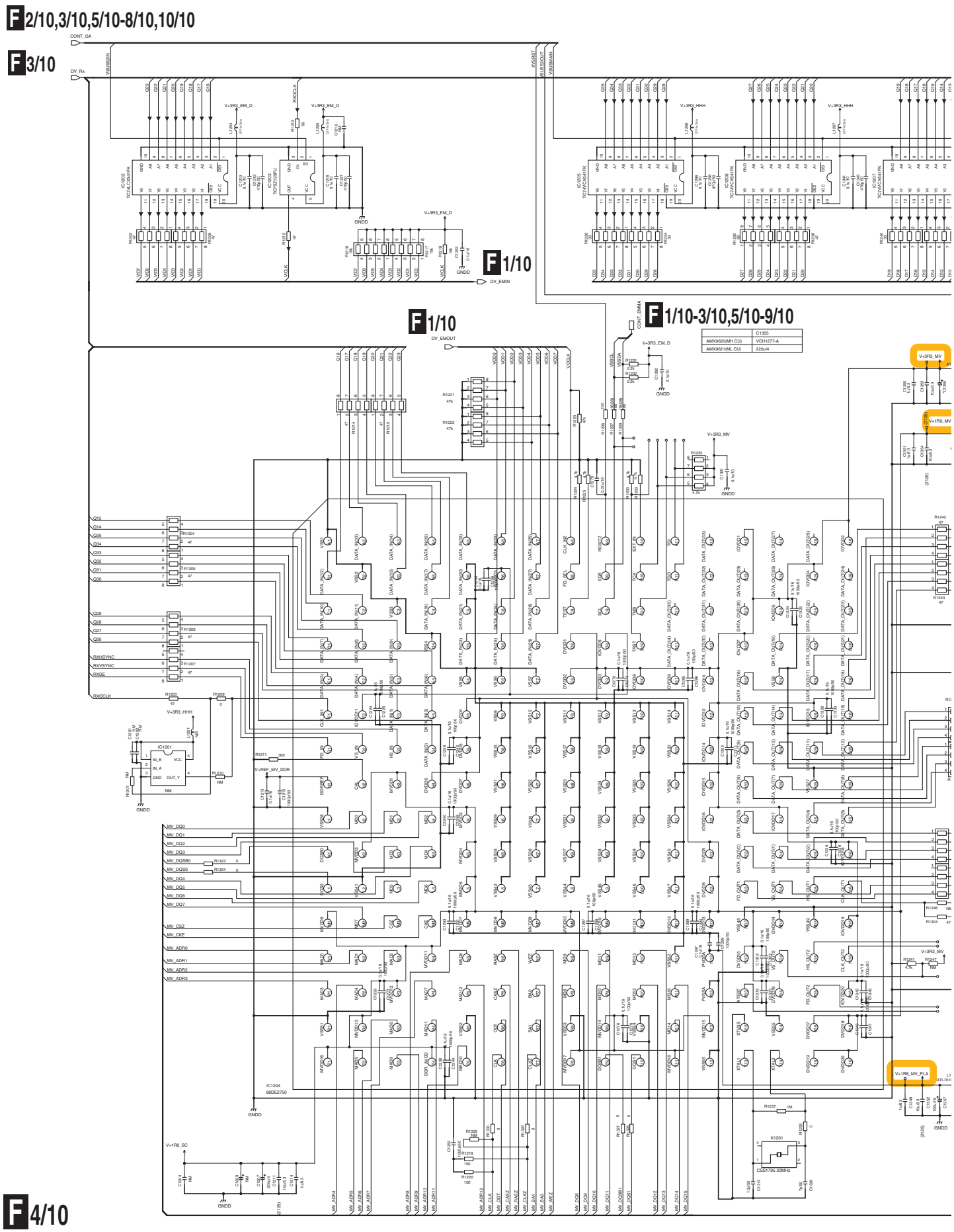


	AWX9620(MH CU)	AWX9621(ML CU)
C985	VCH1277-A	220u/4
C1013	ACH7306-A	NM
C1108	VCH1234-A	100u/16

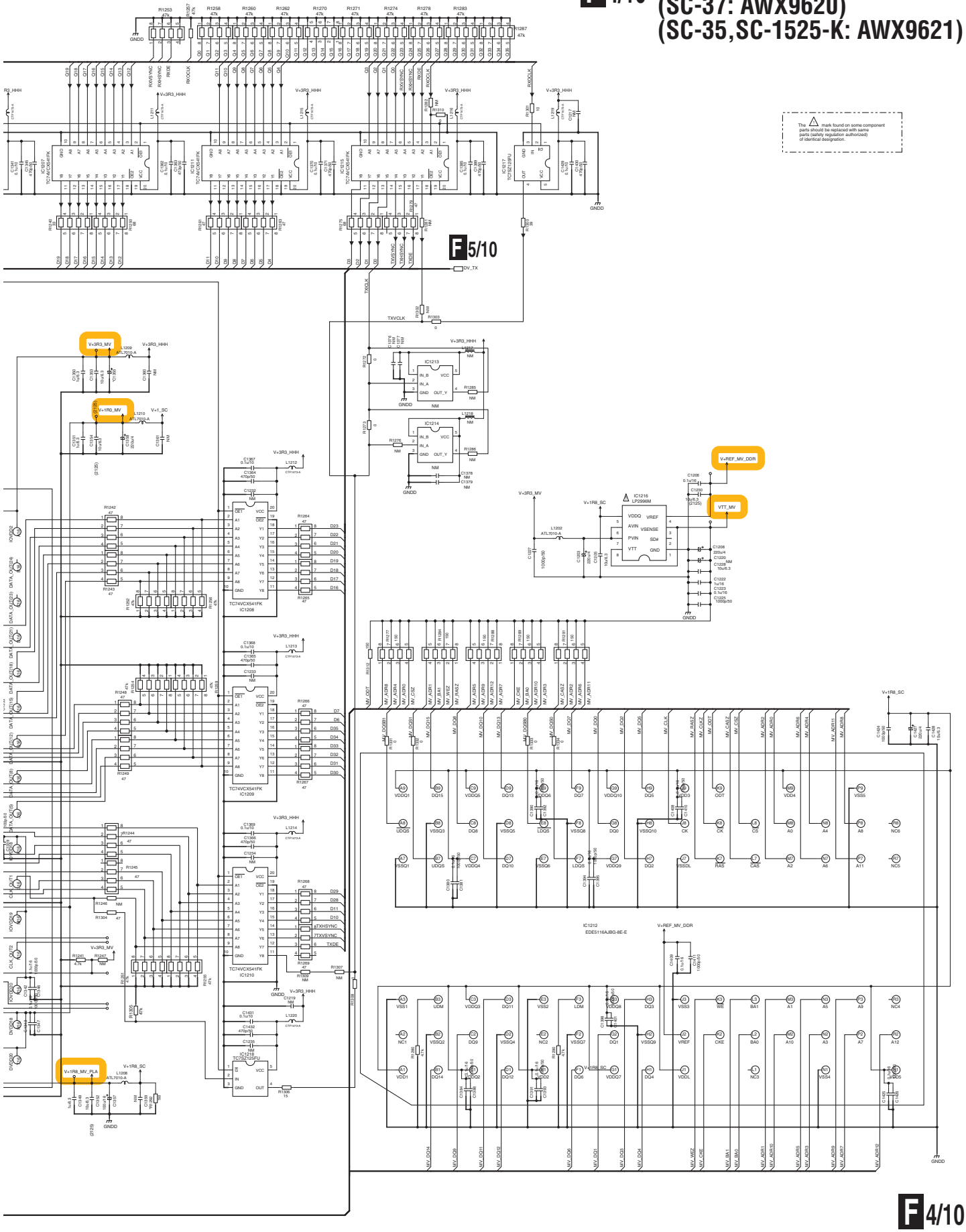
F 3/10 DIGITAL MAIN ASSY (3/10) (SC-37: AWX9620) (SC-35,SC-1525-K: AWX9621)



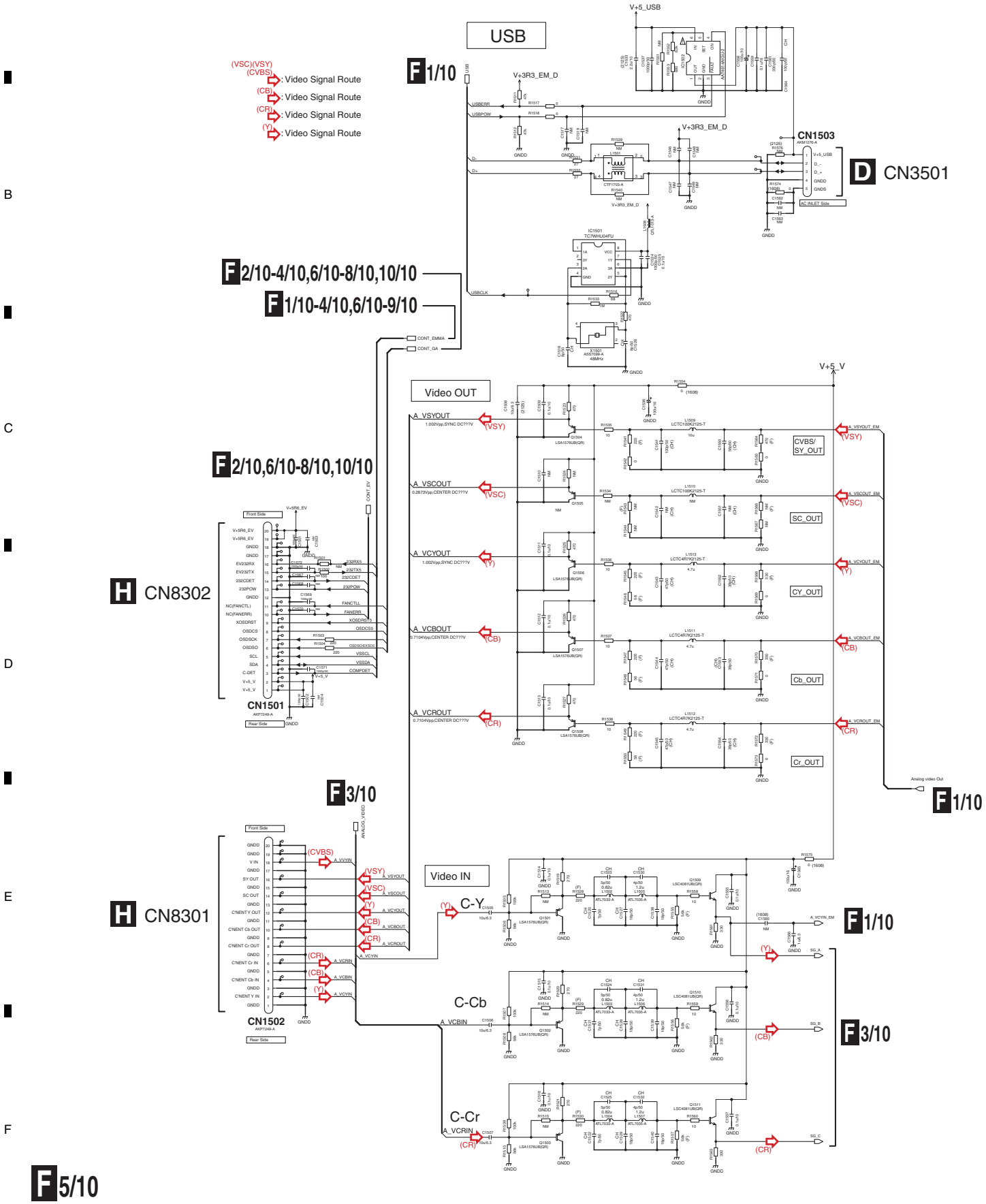
10.13 DIGITAL MAIN ASSY (4/10)



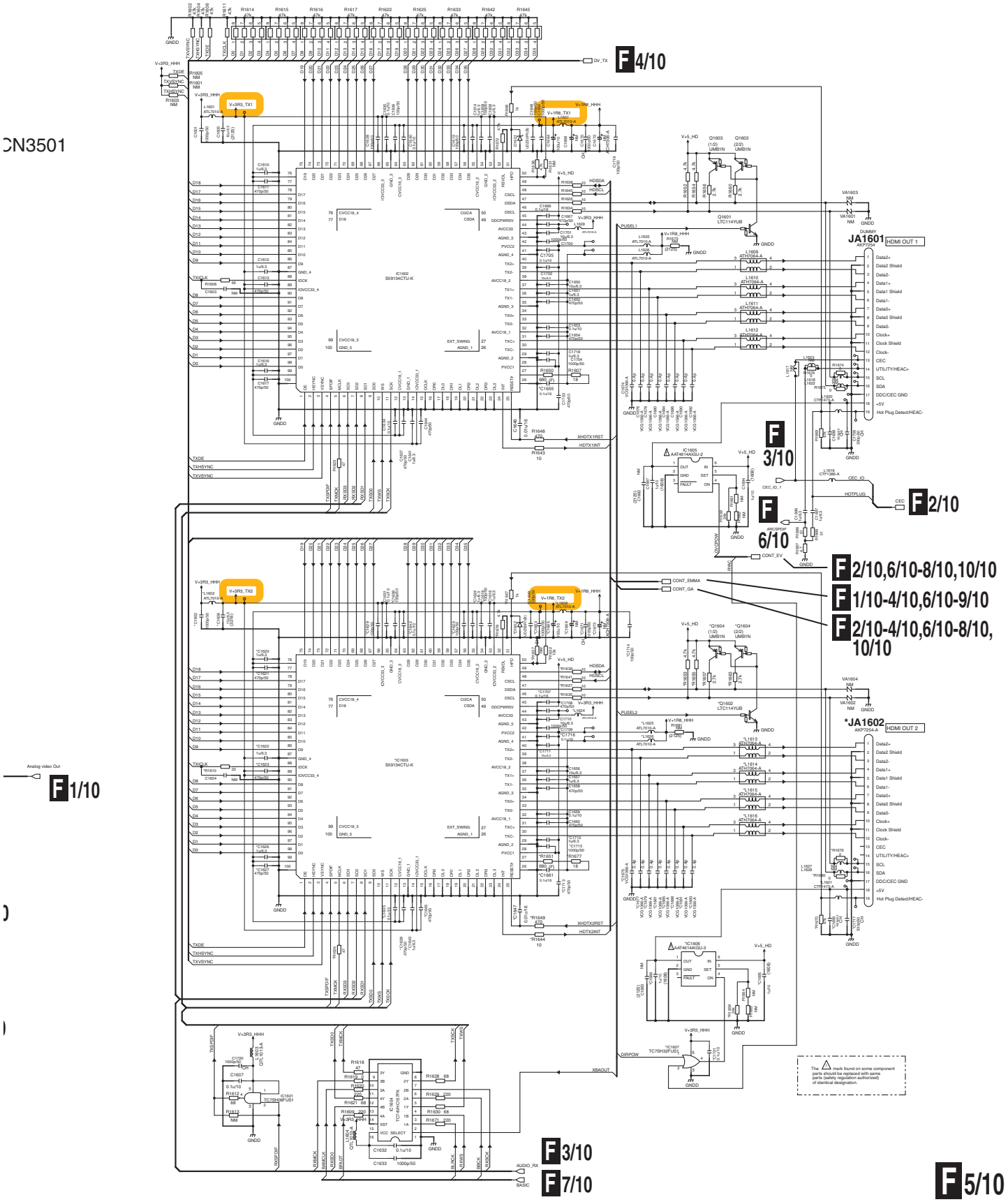
F4/10 DIGITAL MAIN ASSY (4/10) (SC-37: AWX9620) (SC-35,SC-1525-K: AWX9621)



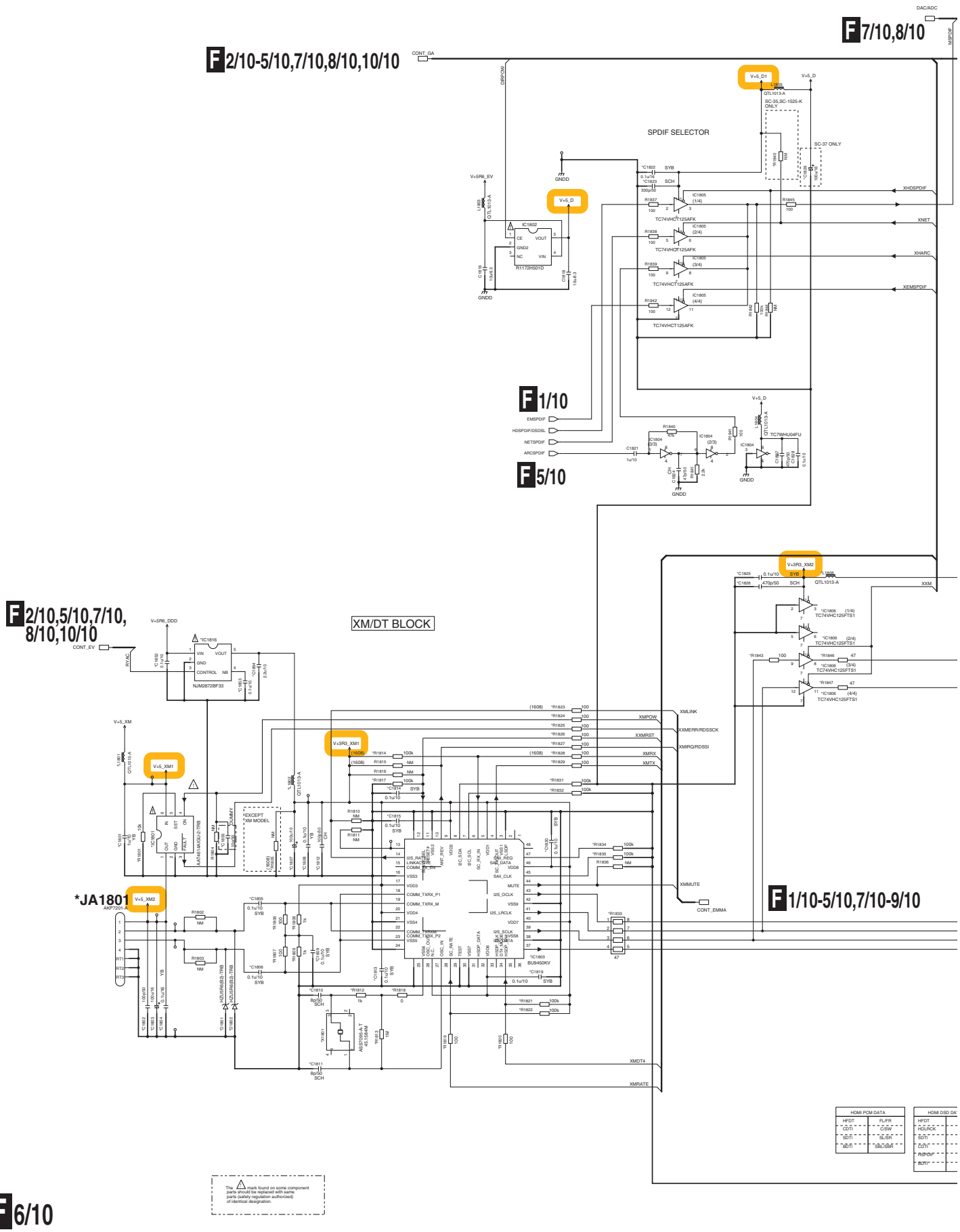
10.14 DIGITAL MAIN ASSY (5/10)



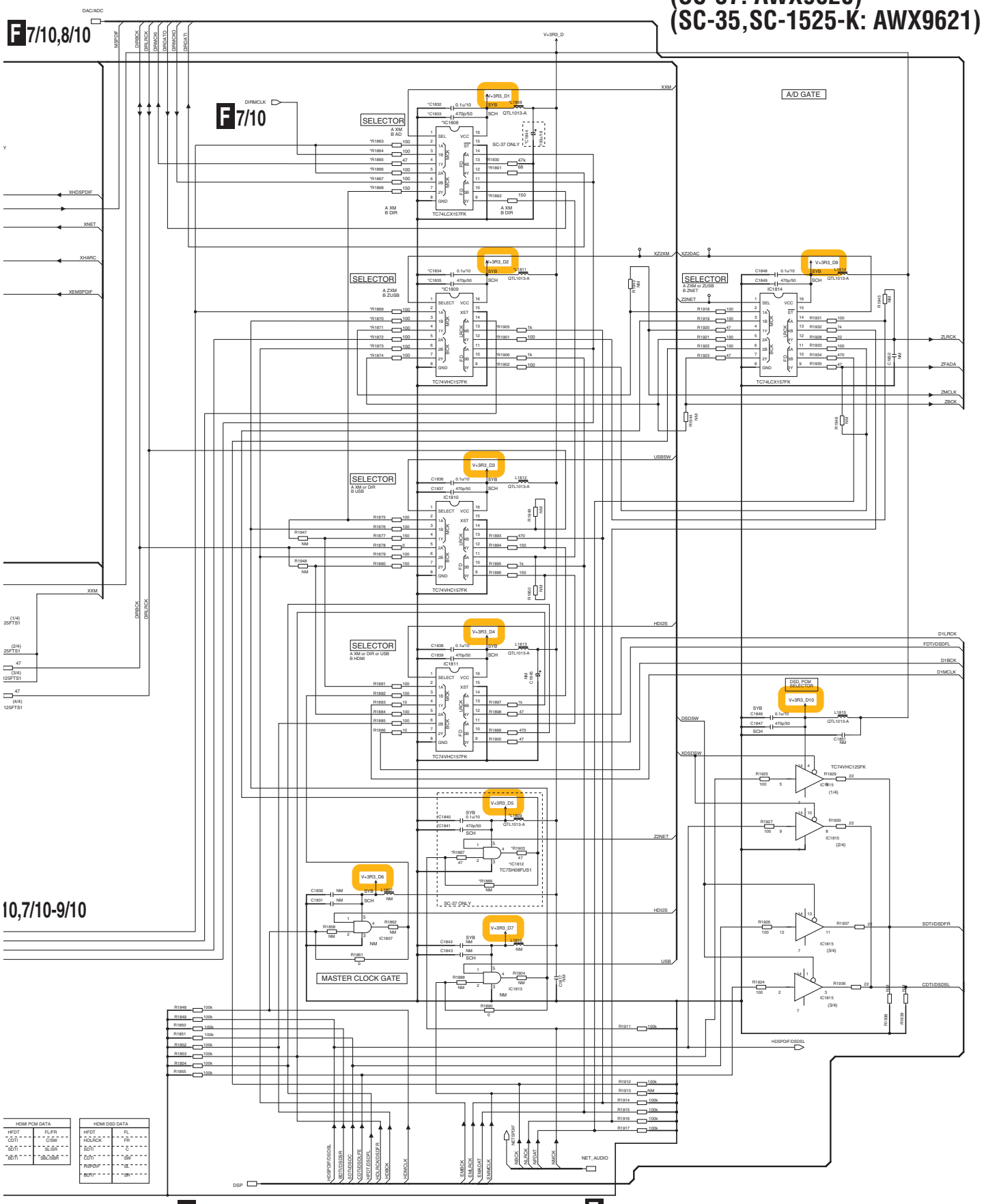
F 5/10 DIGITAL MAIN ASSY (5/10) (SC-37: AWX9620) (SC-35,SC-1525-K: AWX9621)



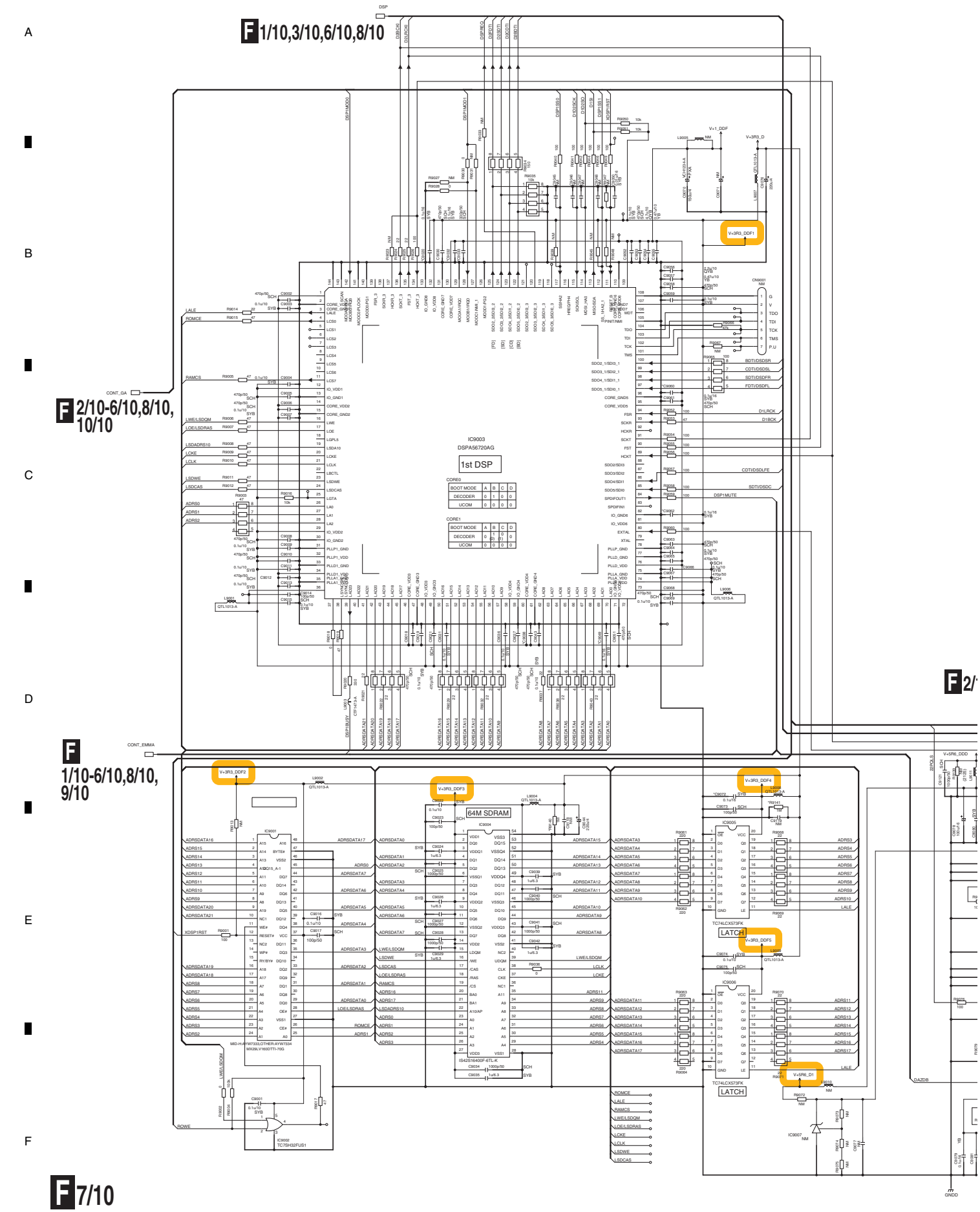
10.15 DIGITAL MAIN ASSY (6/10)



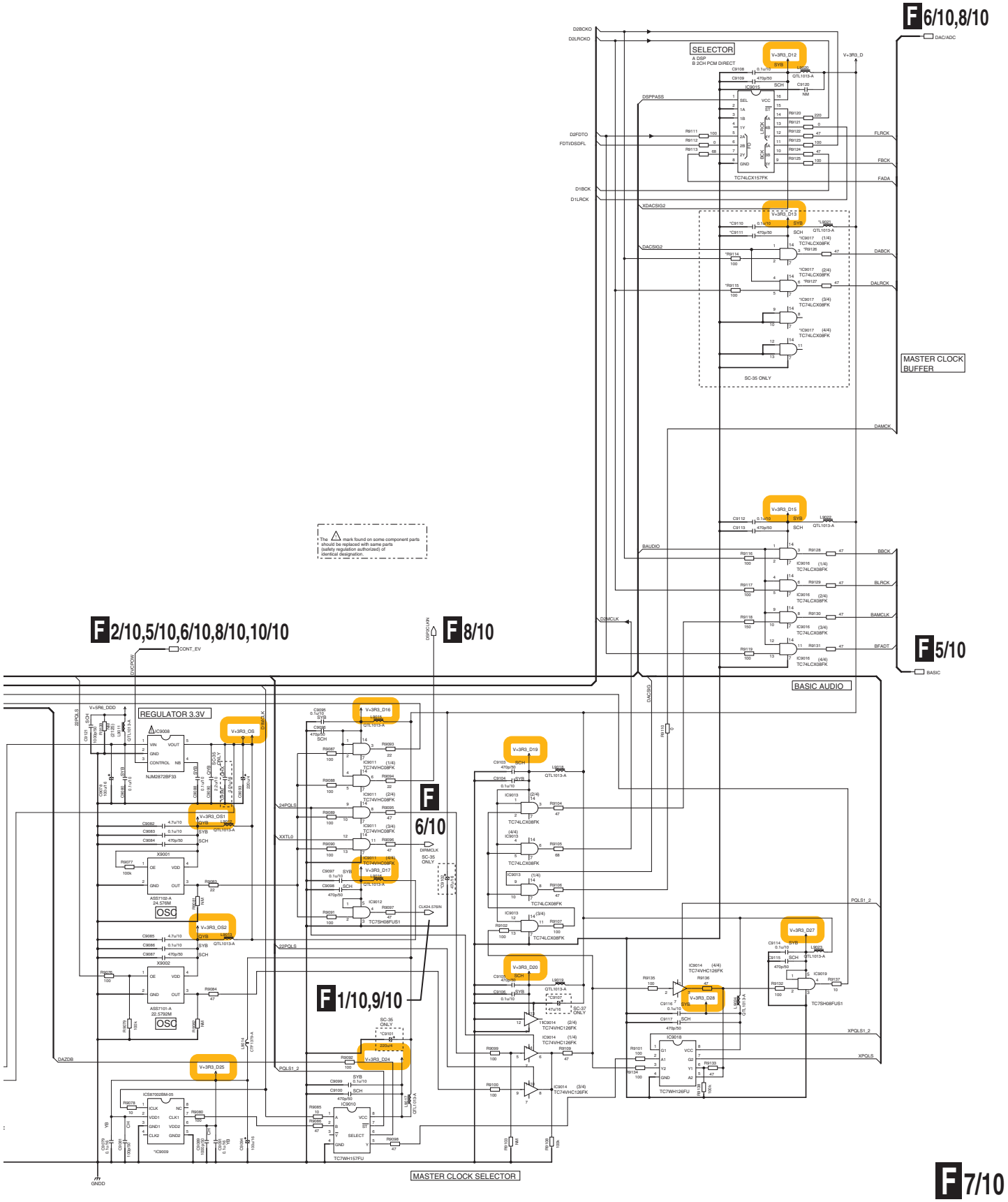
F 6/10 DIGITAL MAIN ASSY (6/10) (SC-37: AWX9620) (SC-35,SC-1525-K: AWX9621)



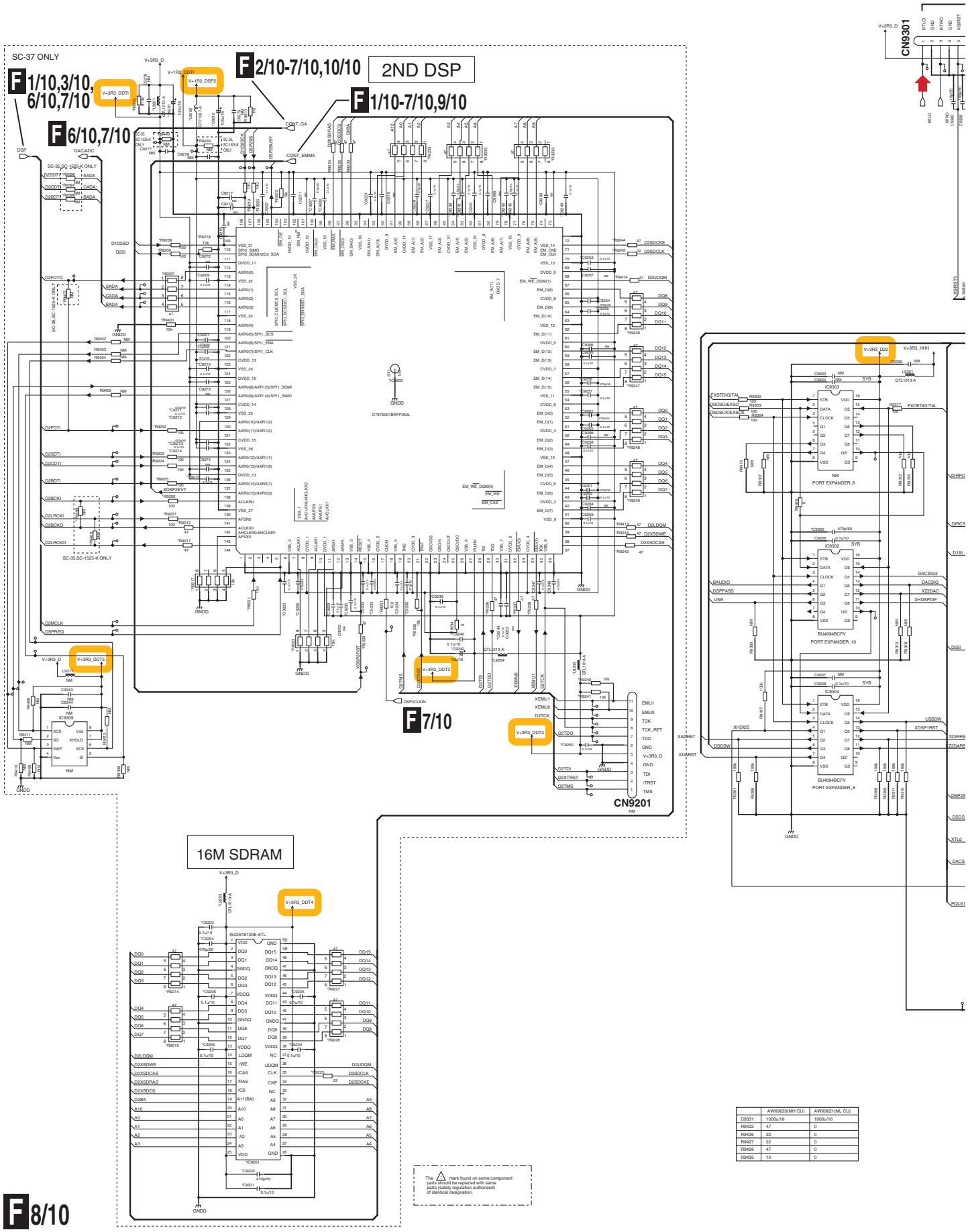
10.16 DIGITAL MAIN ASSY (7/10)



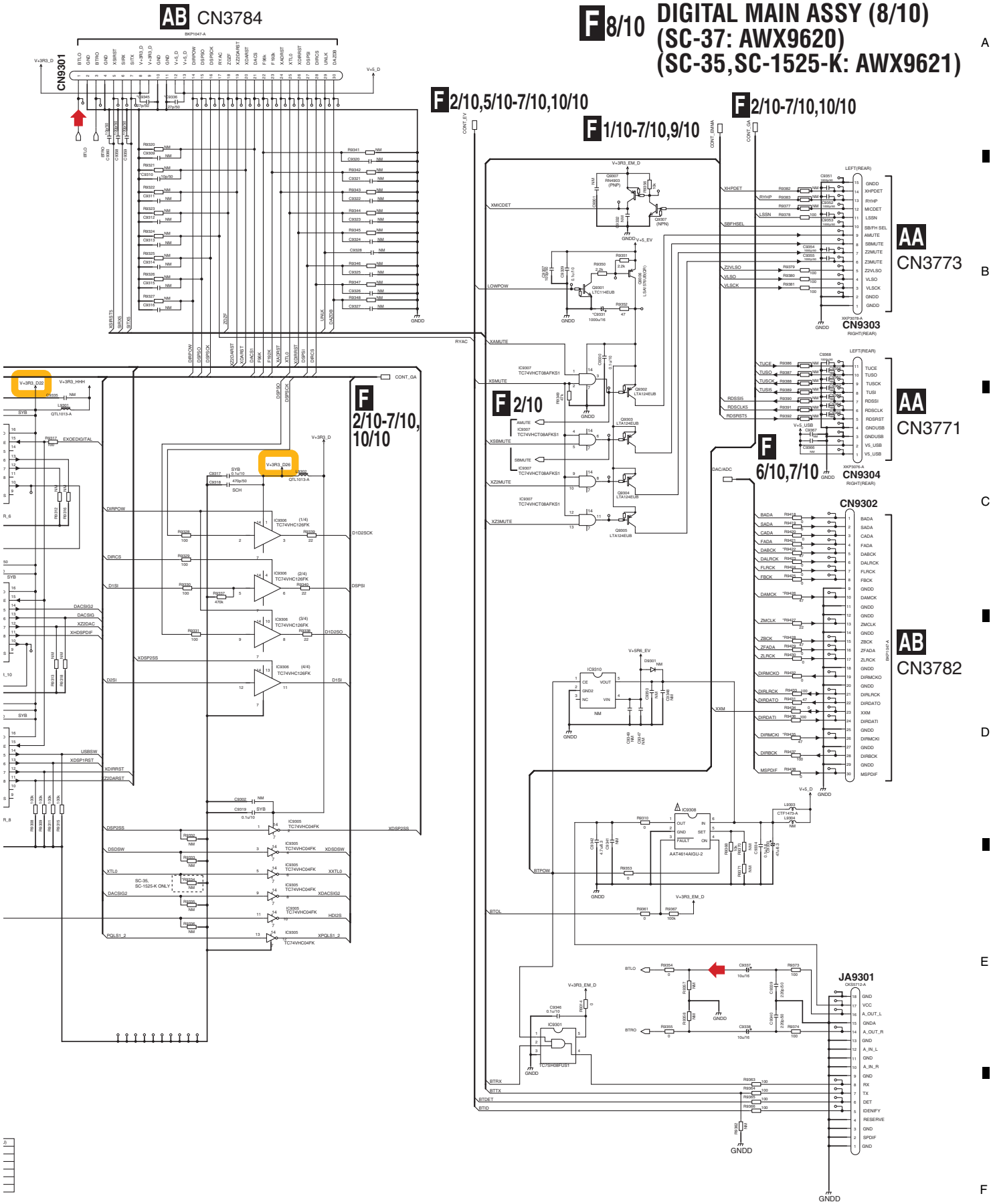
F 7/10 DIGITAL MAIN ASSY (7/10) (SC-37: AWX9620) (SC-35,SC-1525-K: AWX9621)



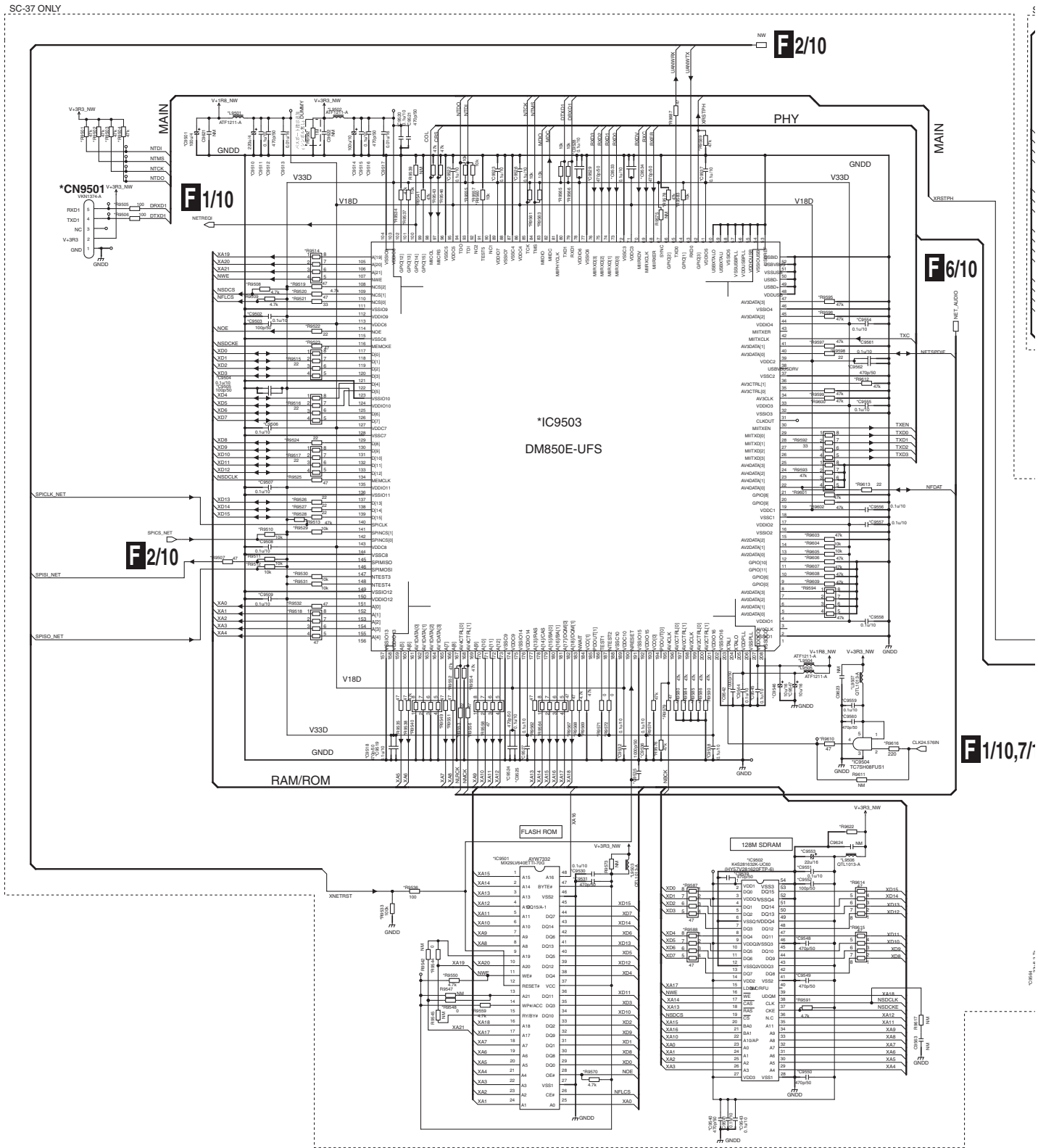
10.17 DIGITAL MAIN ASSY (8/10)

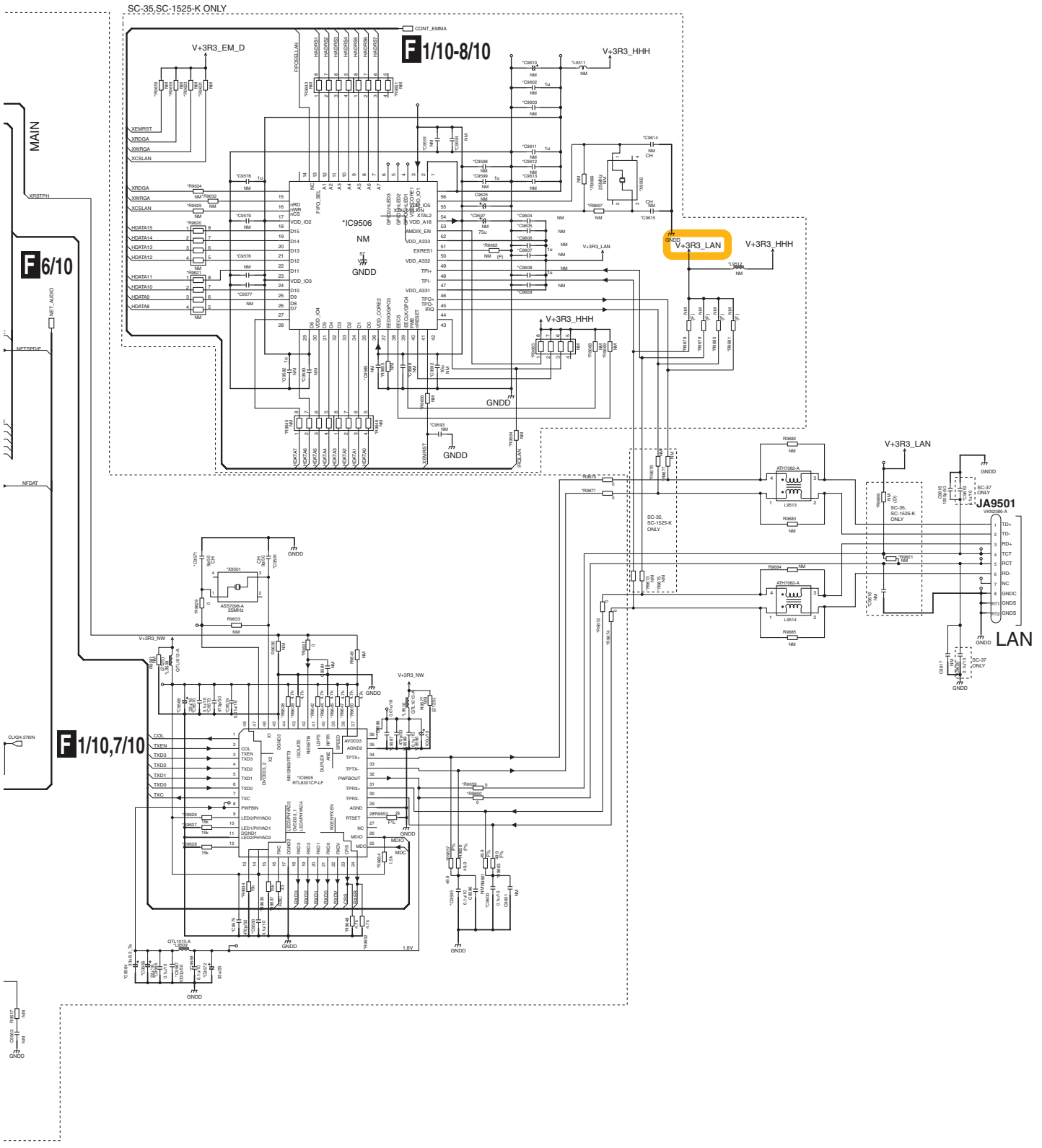

SC-37 ONLY
F 1/10,3/10, 6/10,7/10
F 6/10,7/10
F 2/10-7/10,10/10
2ND DSP
F 1/10-7/10,9/10
F 7/10
F 8/10
16M SDRAM
CN9301
CN9201
V+3R3_DDT1
V+3R2_DSP2
V+3R3_DDT5
V+3R3_DDT2
V+3R3_DDT3
V+3R3_DDT4
V+3R3_D22
V+3R3_HHH
CONT_GA
CONT_EMMA
DSP
DAC/ADC
D2FDTO
D2FDTI
D2SDTI
D2SDTO
D2BCKI
D2LRCKI
D2BCKO
D2LRCKO
D2MCLK
DSPREQ
XDSP2EVT
D2SI
D1SI
DACSIG2
DACSIG
XZ2DAC
XHDSPDIF
DIRPO
DIRCS
XDIRPS
PQLS
DSP2S
DSDS
XTL0
DACS
BAUDIO
DSPPASS
USB
EXSTDIGITAL
SDSO/EXSO
SDSCK/EXSCK
EXOEDIGITAL
USBSW
XDSP1RST
XHD2S
DSDSW
XADRST
XDARST
IC9303
IC9302
IC9304
PORT EXPANDER_6
PORT EXPANDER_10
PORT EXPANDER_8
IC9309
IS42S16100E-6TL
D7878E001BFFP250L
DSP2CLKIN
XEMU1
XEMU0
D2TCK
D2TDO
D2TRST
D2TMS
D2TDI
TCK
TCK_RET
TDO
GND
TDI
/TRST
TMS
EMU1
EMU0
V+3R3_D
SC-35,SC-152S-K ONLY
SC-35,SC-152S-K ONLY
SC-35,SC-152S-K ONLY

F 8/10 DIGITAL MAIN ASSY (8/10) (SC-37: AWX9620) (SC-35,SC-1525-K: AWX9621)

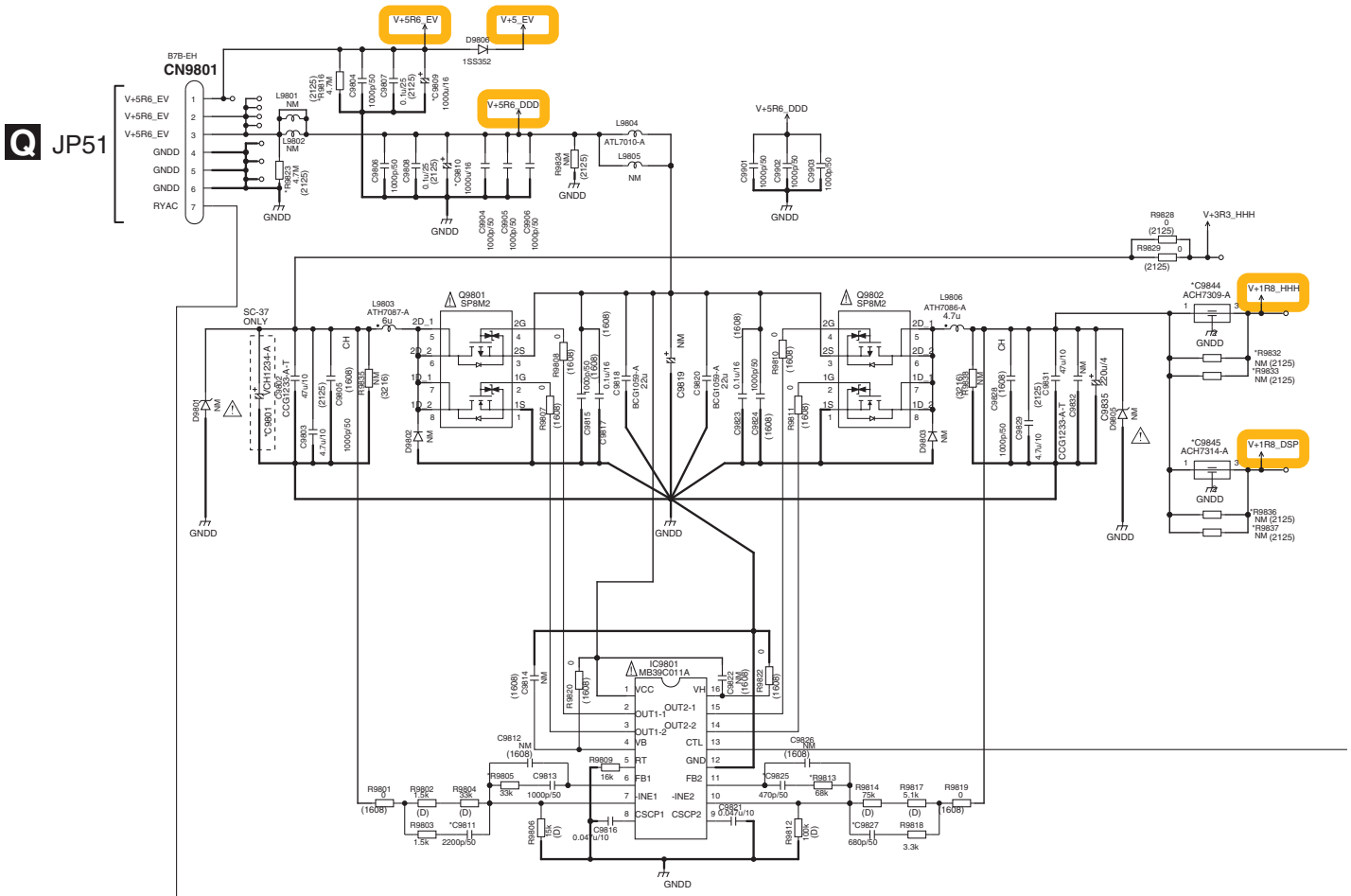


10.18 DIGITAL MAIN ASSY (9/10)




SC-35,SC-1525-K ONLY
F 1/10-8/10
F 6/10
F 1/10,7/10
MAIN
*IC9506
NM
V+3R3_EM_D
V+3R3_HHH
V+3R3_LAN
V+3R3_NW
GNDD
JA9501
LAN
SC-35, SC-1525-K ONLY
SC-37 ONLY

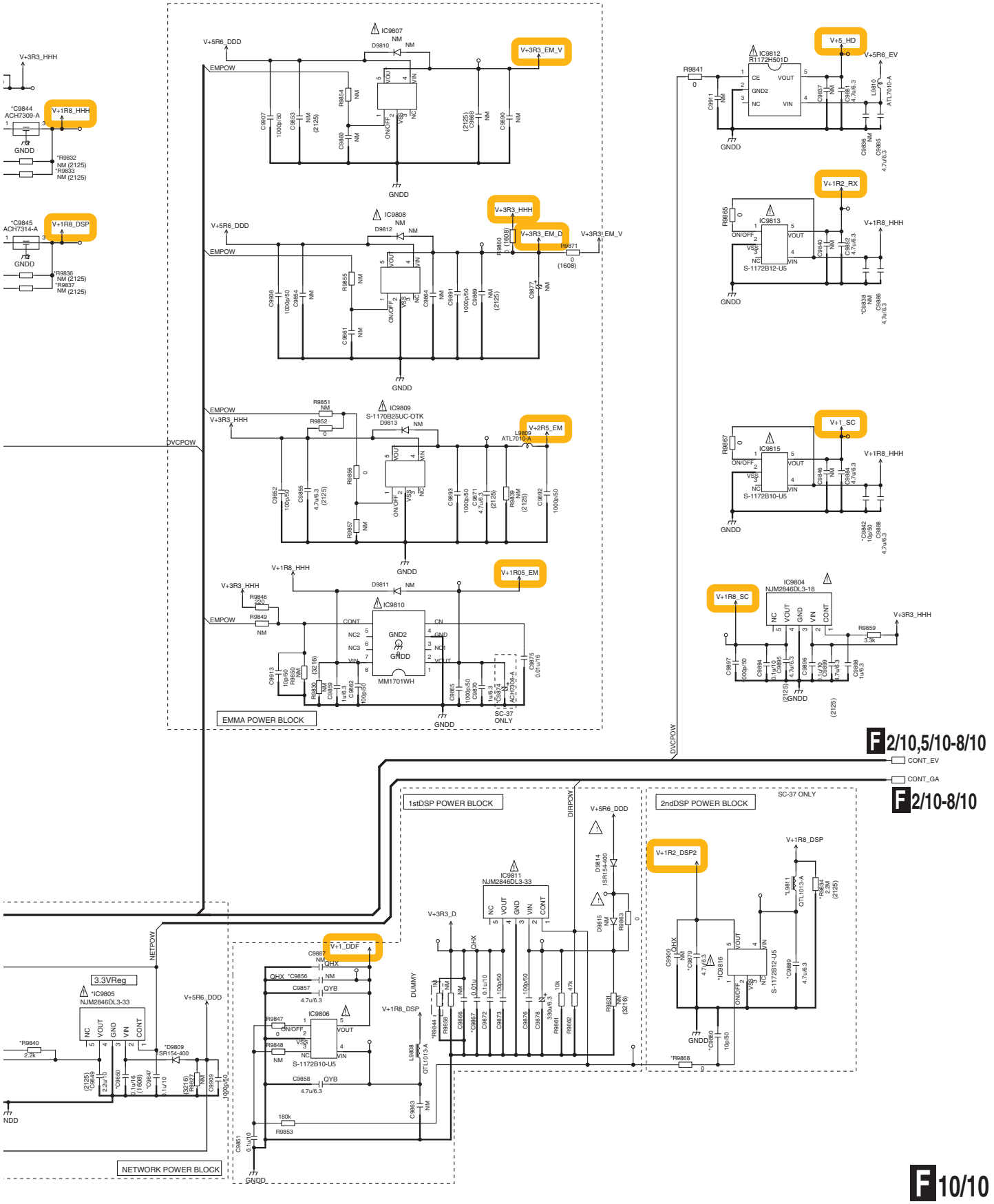
10.19 DIGITAL MAIN ASSY (10/10)



	AWX9620(MH CU)	AWX9621(ML CU)
C9809	1000u/16	1000u/16
C9810	1000u/16	1000u/16
C9811	2200p/50	1000p/50
C9825	470p/50	1000p/50
C9827	680p/50	470p/50
C9844	ACH7309-A	NM
C9845	ACH7314-A	NM
R9805	33k	18k
R9813	68k	22k
R9832	NM	0
R9833	NM	0
R9836	NM	0
R9837	NM	0

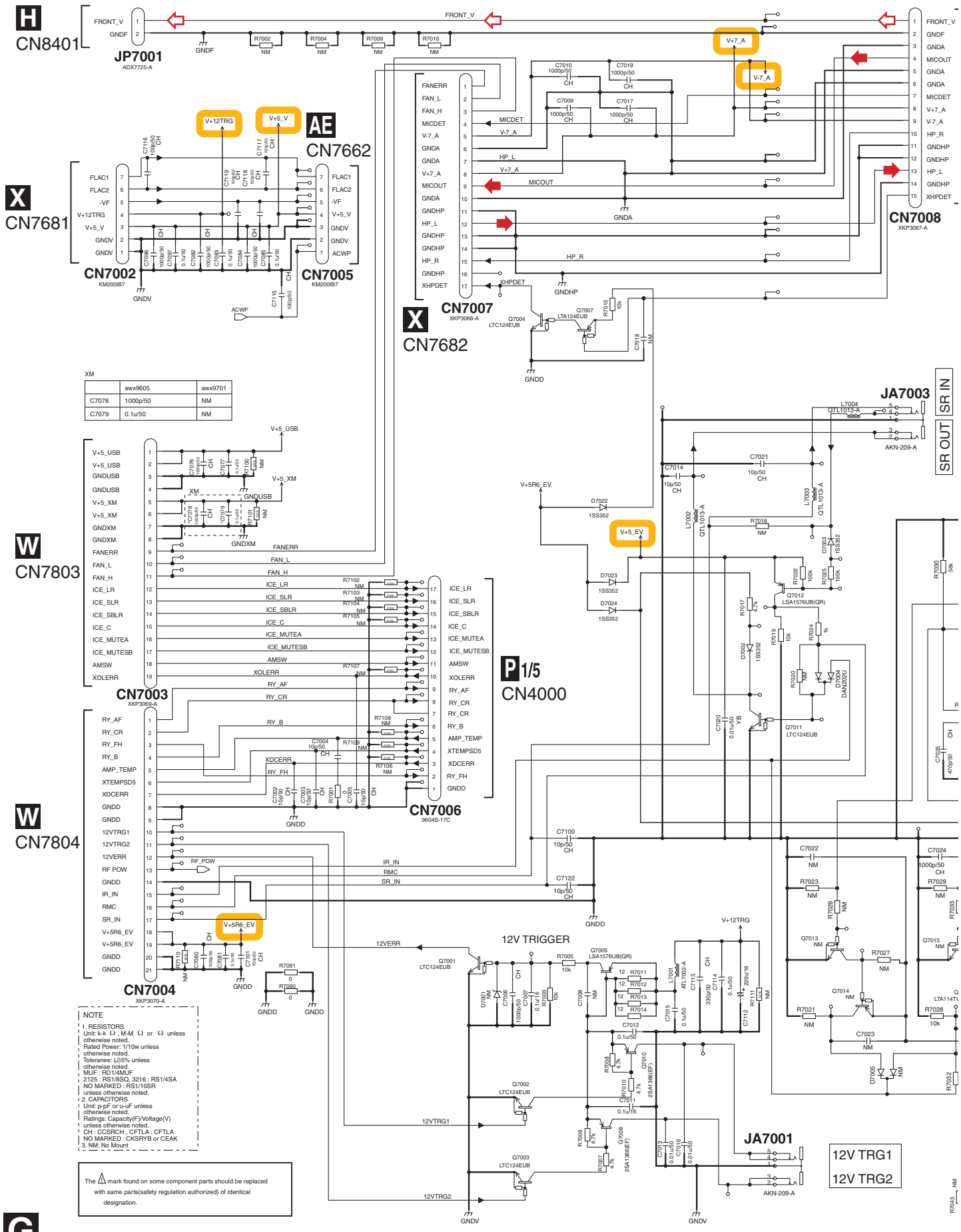
The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

F 10/10 DIGITAL MAIN ASSY (10/10) (SC-37: AWX9620) (SC-35,SC-1525-K: AWX9621)

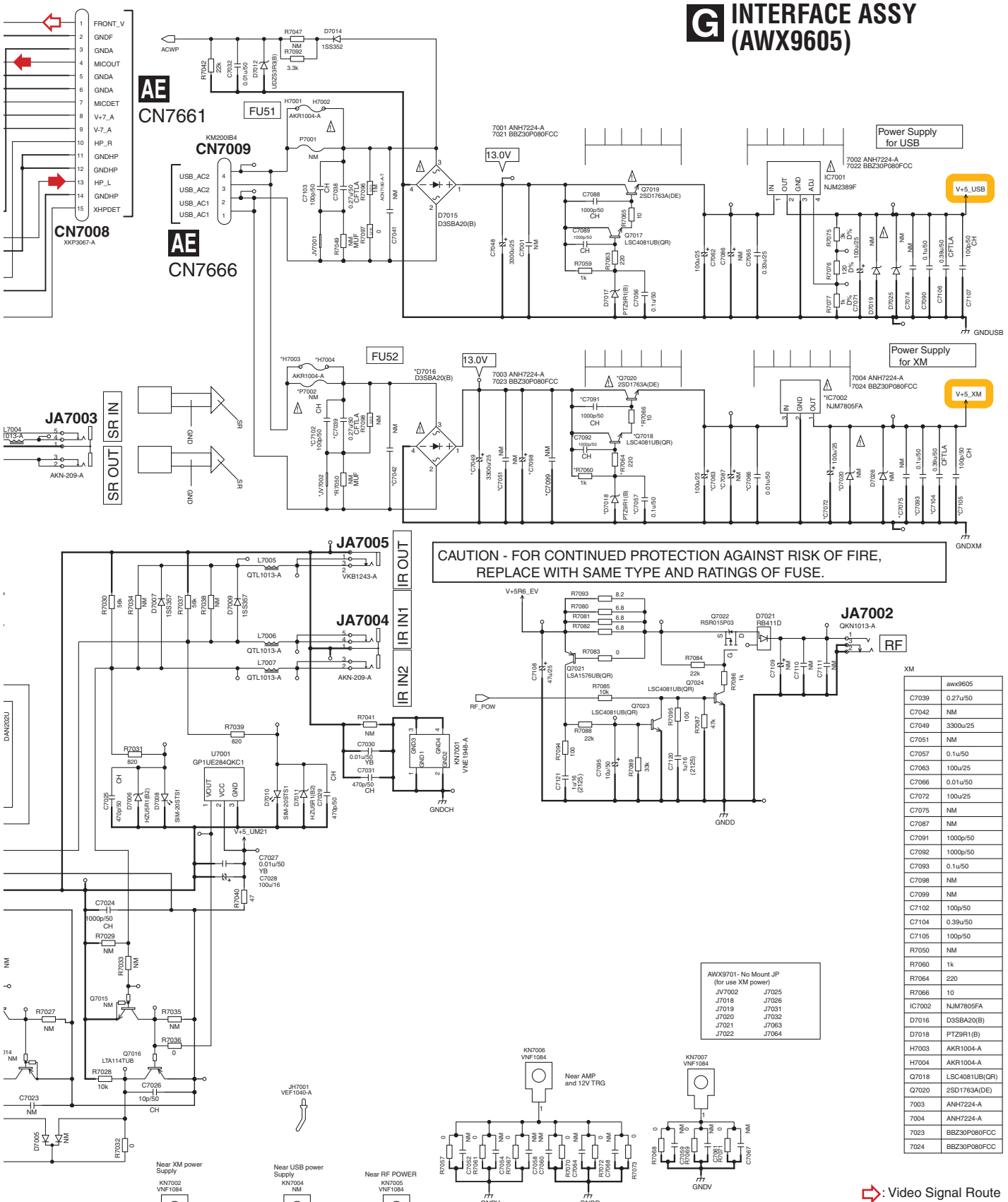


F 2/10,5/10-8/10
F 2/10-8/10
F 10/10

10.20 INTERFACE ASSY



G INTERFACE ASSY (AWX9605)

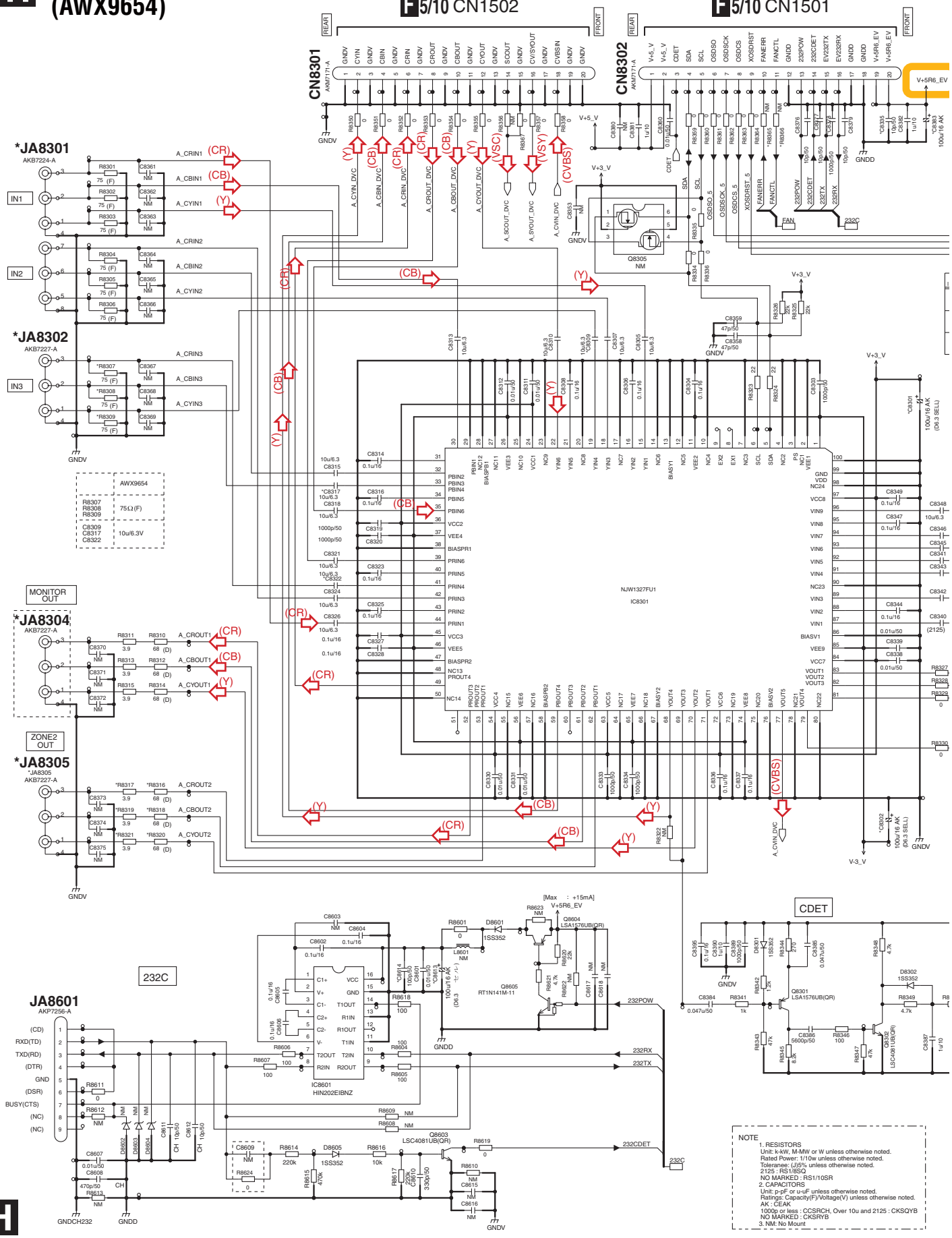


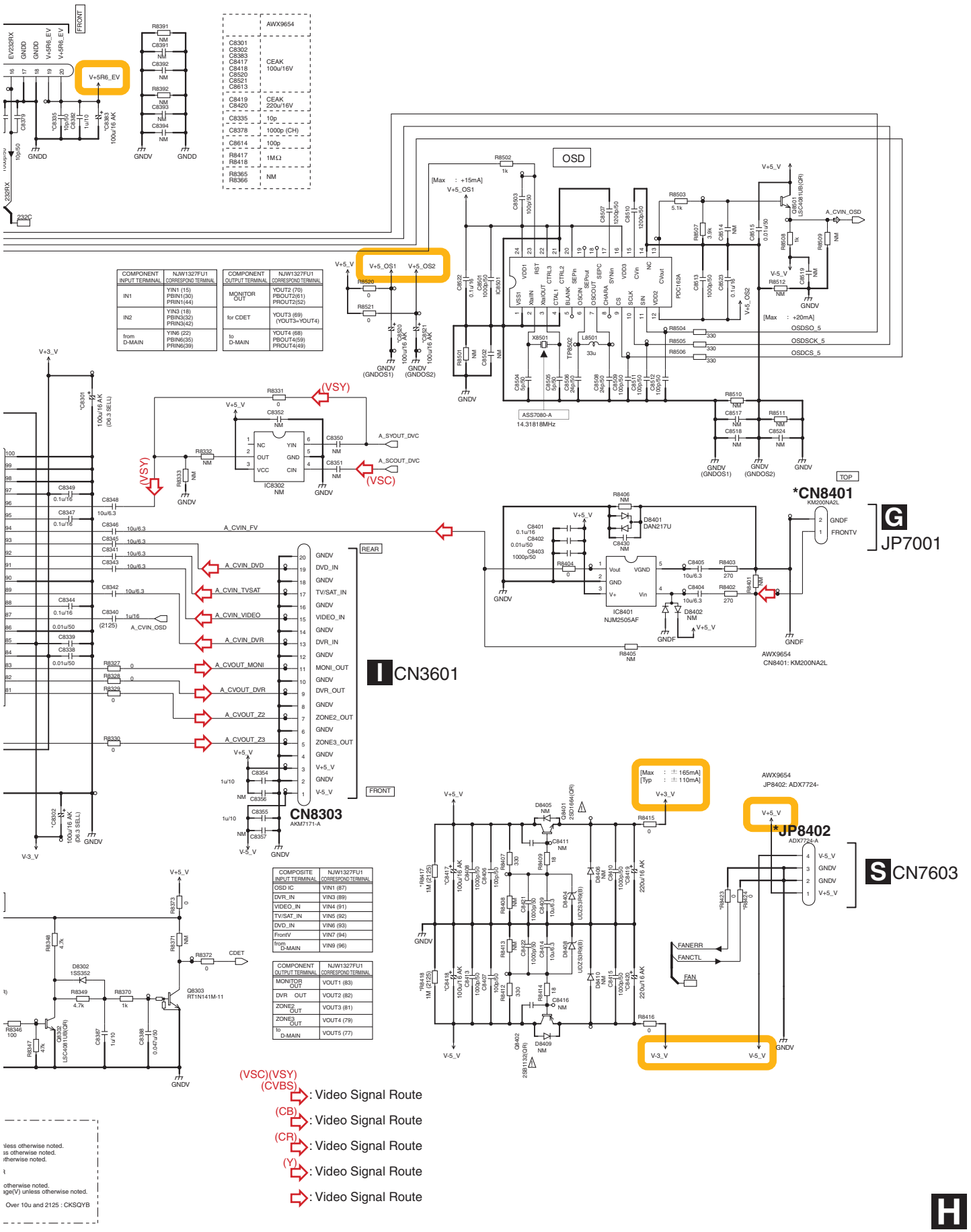
XM

	awx9605
C7039	0.27u/50
C7042	NM
C7049	3300u/25
C7051	NM
C7057	0.1u/50
C7063	100u/25
C7066	0.01u/50
C7072	100u/25
C7075	NM
C7087	NM
C7091	1000p/50
C7092	1000p/50
C7093	0.1u/50
C7098	NM
C7099	NM
C7102	100p/50
C7104	0.39u/50
C7105	100p/50
R7050	NM
R7060	1k
R7064	220
R7066	10
IC7002	NJM7805FA
D7016	D3SBA20(B)
D7018	PTZ9R1(B)
H7003	AKR1004-A
H7004	AKR1004-A
Q7018	LSC4081UB(QR)
Q7020	2SD1763A(DE)
7003	ANH7224-A
7004	ANH7224-A
7023	BBZ30P080FCC
7024	BBZ30P080FCC

10.21 COMPONENT ASSY

H COMPONENT ASSY (AWX9654)





	AWX9654
C8301 C8302 C8383 C8417 C8418 C8520 C8521 C8613	CEAK 100u/16V
C8419 C8420	CEAK 220u/16V
C8335	10p
C8378	1000p (CH)
C8614	100p
R8417 R8418	1MΩ
R8365 R8366	NM

COMPONENT INPUT TERMINAL	NJW1327FU1 CORRESPOND TERMINAL
IN1	YIN1 (15) PBIN1(30) PRIN1(44)
IN2	YIN3 (18) PBIN3(32) PRIN3(42)
from D-MAIN	YIN6 (22) PBIN6(35) PRIN6(39)

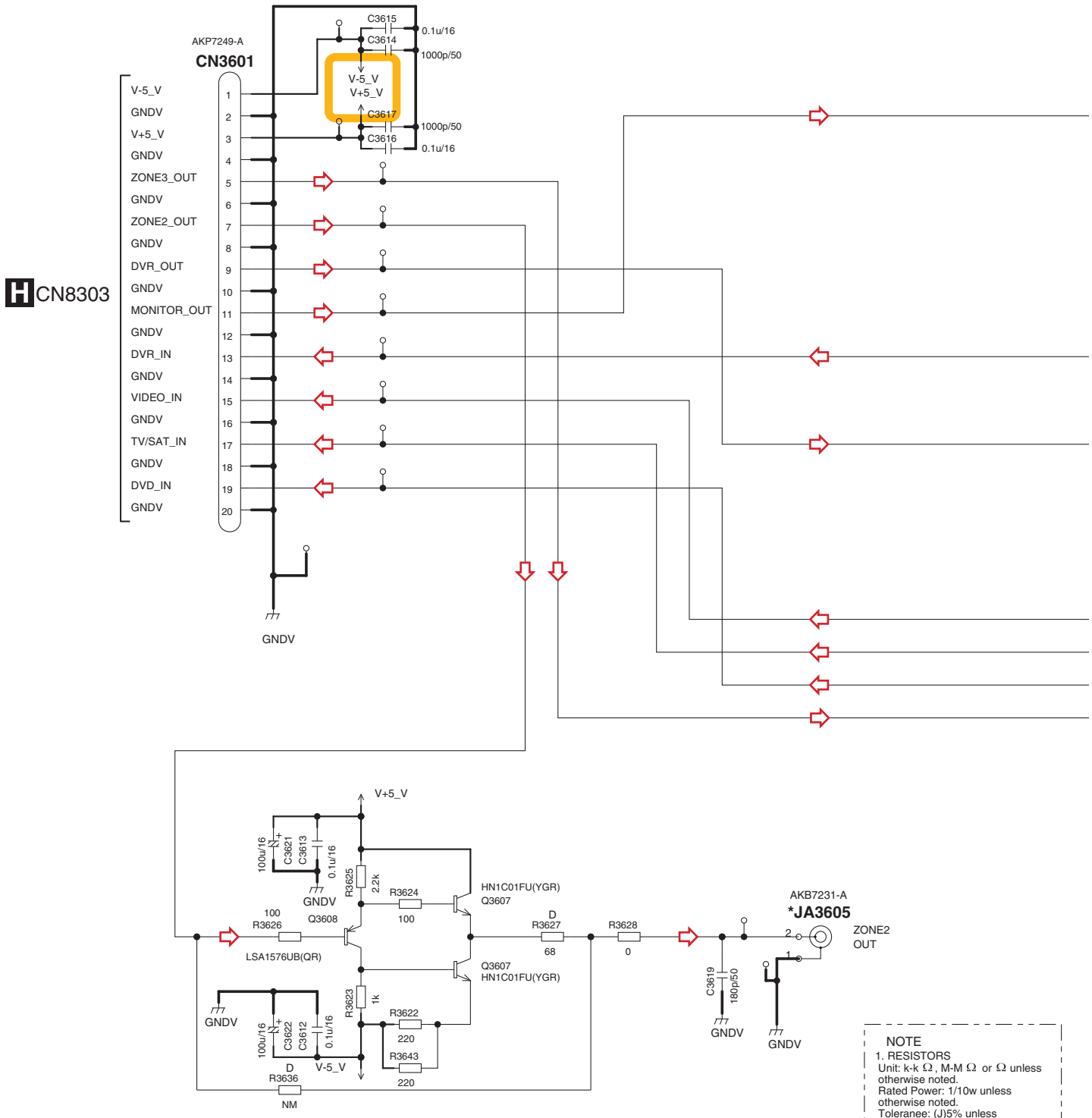
COMPONENT OUTPUT TERMINAL	NJW1327FU1 CORRESPOND TERMINAL
MONITOR OUT	YOUT2 (70) PBOUT2(61) PROUT2(52)
for CDET	YOUT3 (69) (YOUT3=YOUT4)
to D-MAIN	YOUT4 (68) PBOUT4(59) PROUT4(49)

COMPOSITE INPUT TERMINAL	NJW1327FU1 CORRESPOND TERMINAL
OSD IC	VIN1 (87)
DVR_IN	VIN3 (89)
VIDEO_IN	VIN4 (91)
TV/SAT_IN	VIN5 (92)
DVD_IN	VIN6 (93)
FrontV	VIN7 (94)
from D-MAIN	VIN9 (96)

COMPONENT OUTPUT TERMINAL	NJW1327FU1 CORRESPOND TERMINAL
MONITOR OUT	VOUT1 (83)
DVR OUT	VOUT2 (82)
ZONE2 OUT	VOUT3 (81)
ZONE3 OUT	VOUT4 (79)
to D-MAIN	VOUT5 (77)

10.22 COMPOSITE ASSY

	SC-37 series
	AWX9652-
JA3601-3	AKB7229-A
JA3604	AKB7231-A
JA3605	AKB7231-A

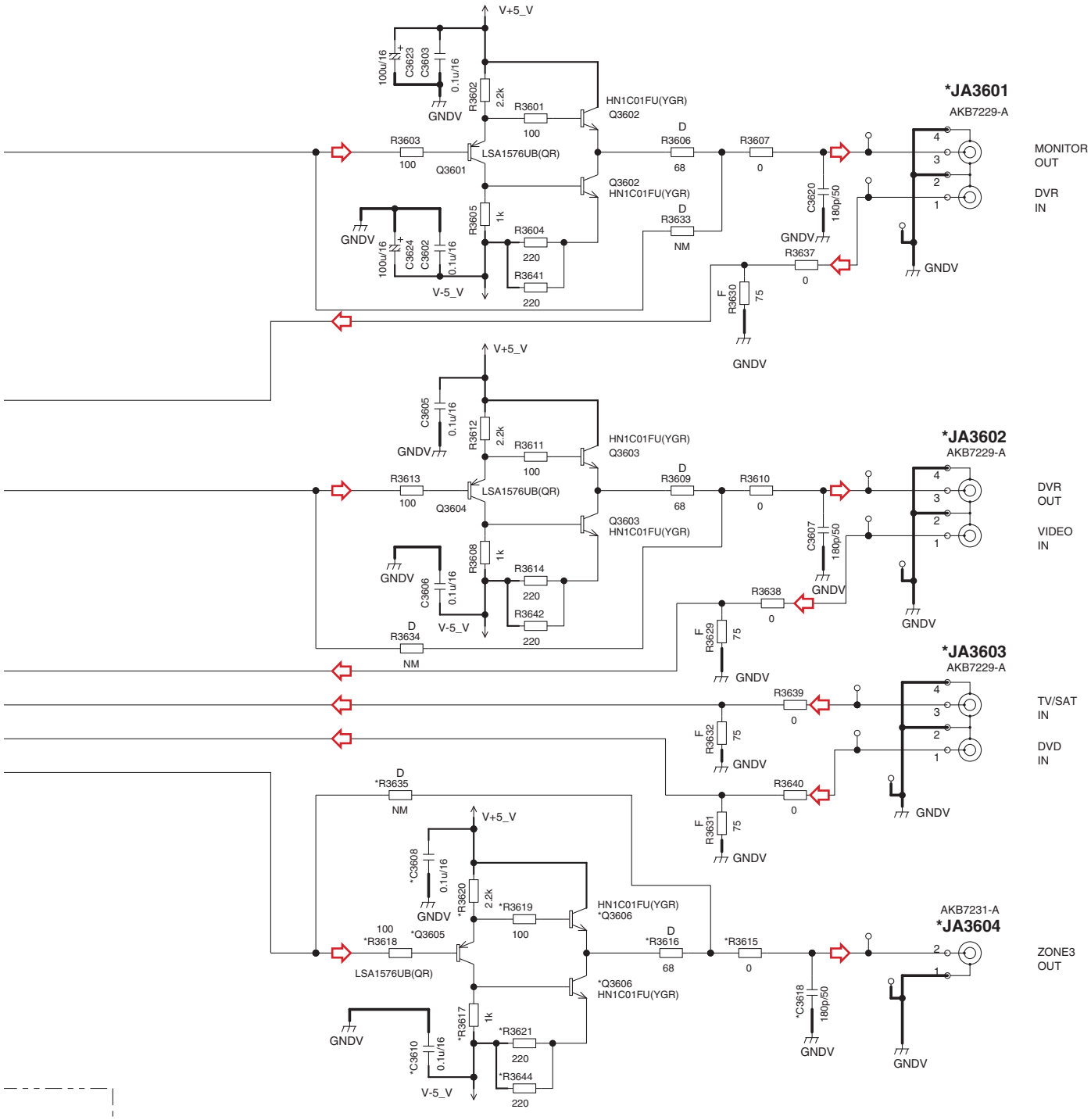


: Video Signal Route

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

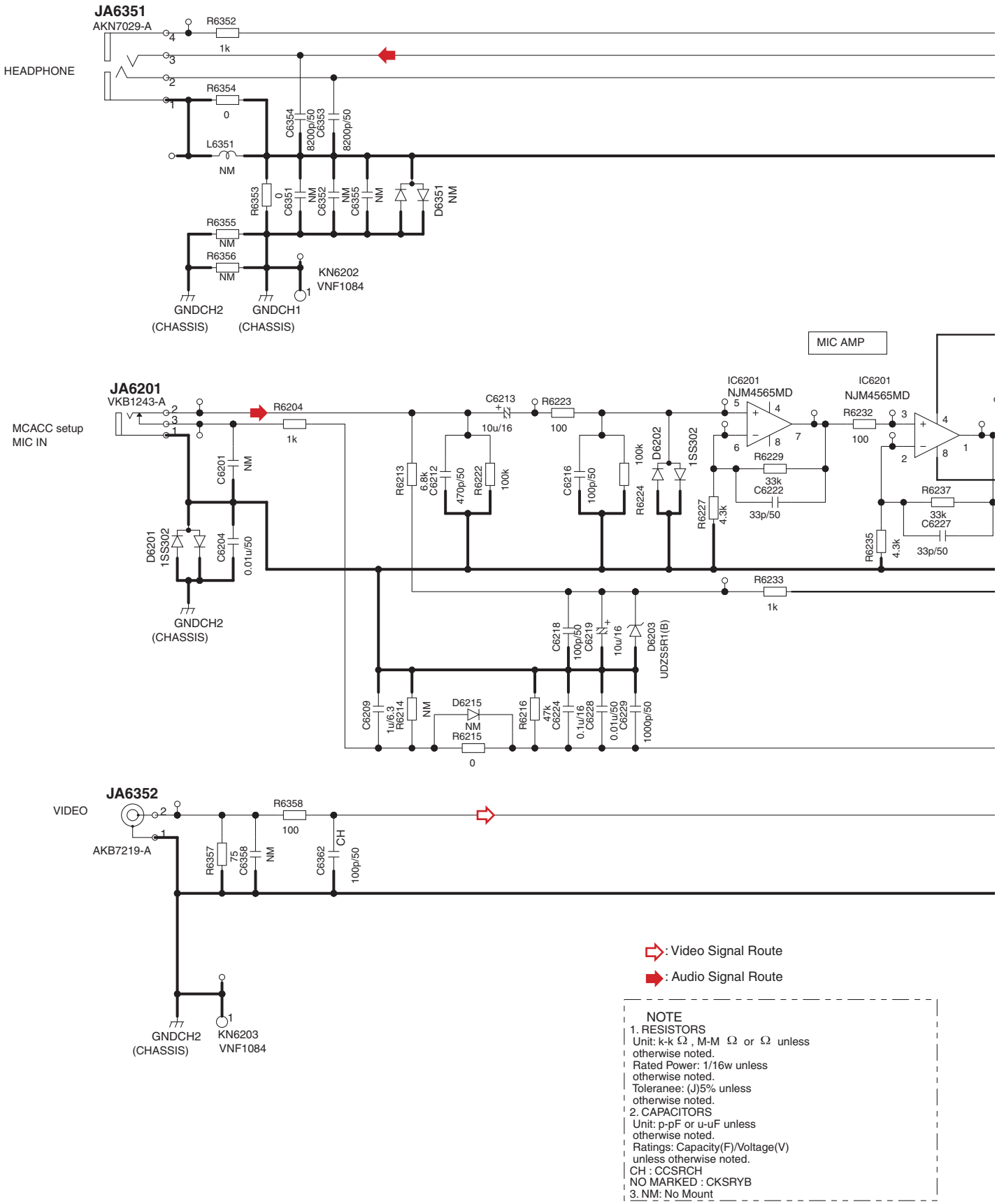
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CH : CCSRCH
NO MARKED : CKSRYB
3. NM: No Mount

COMPOSITE ASSY (AWX9652)



M Ω or Ω unless
10w unless
% unless
F unless
ty(F)/Voltage(V)
e noted.
CKSRYB

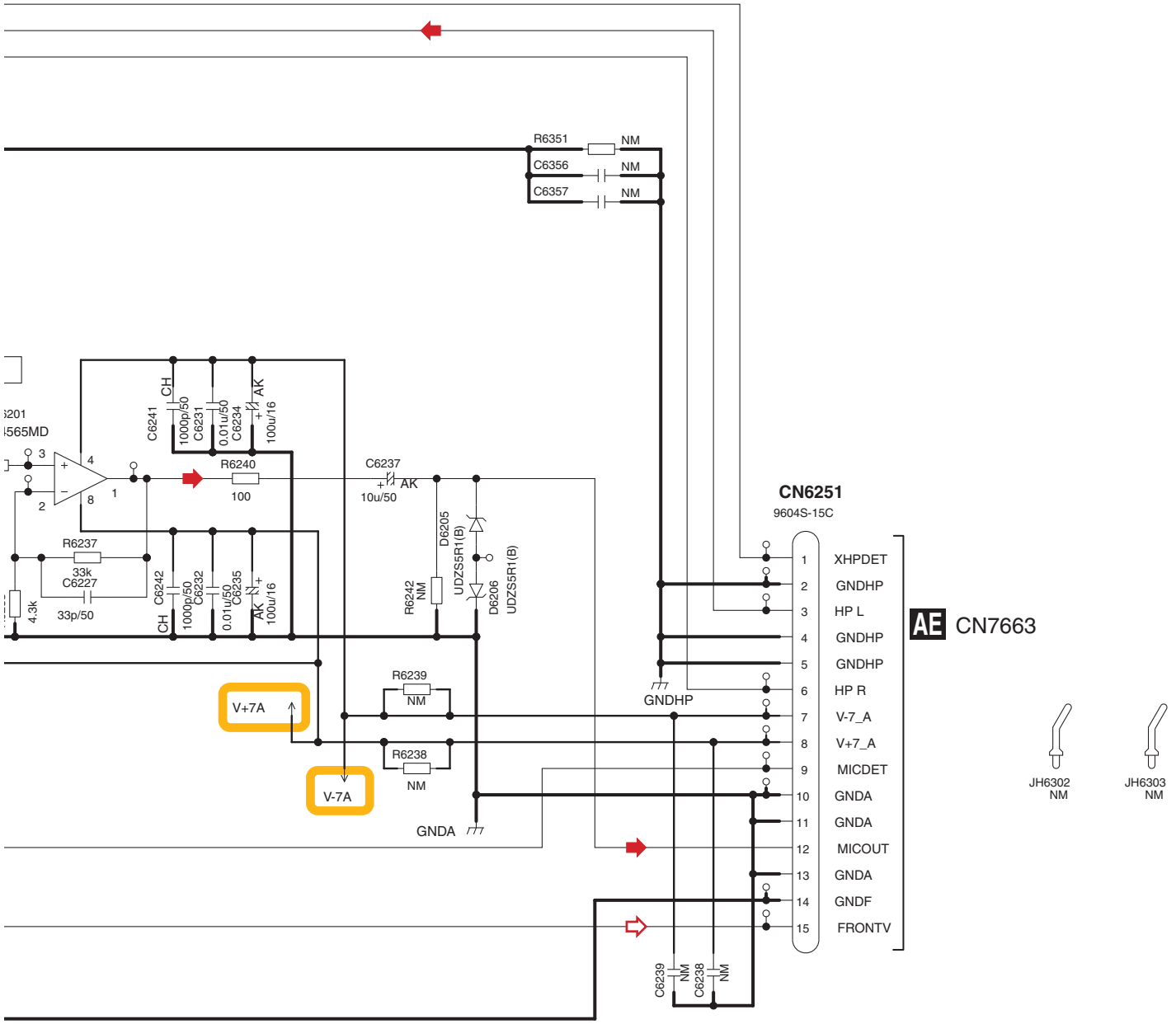
J MIC HP ASSY (AWX9599)



: Video Signal Route

: Audio Signal Route

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


R6351 NM
C6356 NM
C6357 NM
C6241 CH 1000p/50
C6231 0.01u/50
C6234 AK 100u/16
R6240 100
C6237 AK 10u/50
R6237 33k
C6227 33p/50
C6242 CH 1000p/50
C6232 0.01u/50
C6235 AK 100u/16
4.3k
R6242 NM
D6205 UDZS5R1(B)
D6206 UDZS5R1(B)
V+7A
V-7A
R6239 NM
R6238 NM
GNDA
GNDHP
CN6251
9604S-15C
1 XHPDET
2 GNDHP
3 HP L
4 GNDHP
5 GNDHP
6 HP R
7 V-7_A
8 V+7_A
9 MICDET
10 GNDA
11 GNDA
12 MICOUT
13 GNDA
14 GNDF
15 FRONTV
C6239 NM
C6238 NM
AE CN7663
JH6302 NM
JH6303 NM

10.24 DISPLAY ASSY

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

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

	R8018	R8019	R8020	R8021	D8001	D8003	D8005
AWX9600, AWX9686	150	150	150	150	SLR343BC4T (JKLM)	SLR343BC4T (JKLM)	SLR343BC4T (JKLM)
AWX9687	680	680	680	680	SLR343VC (NPQ)	SLR343VC (NPQ)	SLR343VC (NPQ)

	R8022	R8023	R8024	R8078	R8079	R8080	R8081	R8083	R8301
AWX9600, AWX9686	150	560	150	NM	NM	NM	NM	NM	100
AWX9687	NM	150	NM	0	0	0	0	0	NM

	D8009	D8011	D8013
AWX9600, AWX9686	SLR343BC4T (JKLM)	SLR343WBCT (MNPQ)	SLR343BC4 (JKLM)
AWX9687	NM	NM	NM

	R8277	R8278	R8279	R8280	S8010	S8011
AWX9600	47k	NM	NM	47k	ASG7029-A	ASG7029-A
AWX9686	47k	NM	47k	NM	ASG7029-A	ASG7029-A
AWX9687	47k	NM	10k	39k	ASG7029-A	ASG7029-A

K DISPLAY ASSY
(SC-37: AWX9600)
(SC-35: AWX9686)
(SC-1525-K: AWX9687)

	D8003	D8005	D8007
	SLR343BC4T (JKLM)	SLR343BC4T (JKLM)	SLR343BC4T (JKLM)
	SLR343VC (NPQ)	SLR343VC (NPQ)	SLR343VC (NPQ)

	R8080	R8081	R8083	R8301	C8005	C8007	Q8005	Q8007	Q8008	Q8009	Q8010	Q8011
	NM	NM	NM	100	47p	100p	LTC124 EUB	LTC124 EUB	LTC124 EUB	LTC124 EUB	LTC124 EUB	LTC124 EUB
	0	0	0	NM	NM	NM	NM	NM	NM	NM	NM	NM

09	D8011	D8013	D8015
3C4T M)	SLR343WBCT (MNPQ)	SLR343BC4T (JKLM)	NM
M	NM	NM	SLR343BC4T (JKLM)

AD CN7652

CN8202 VKN2098-A

D CN3553

CN8006 VKN1819-A

8004 X7728-A

AE CN7664

P8005 DX7735-A

U CN7306

JH8001 51048-0300

L JH5801

JH5851

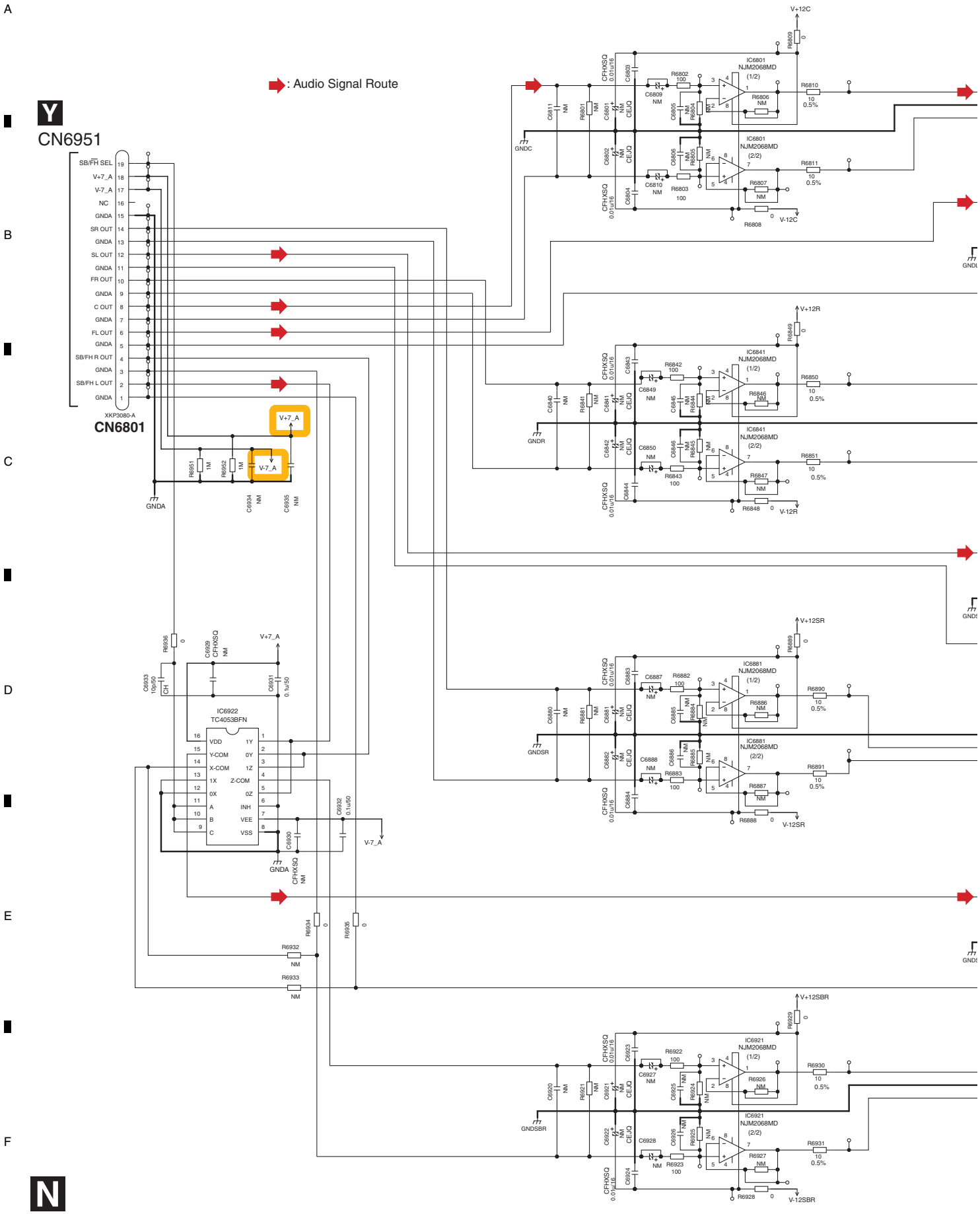
JH8003 51048-0400

M

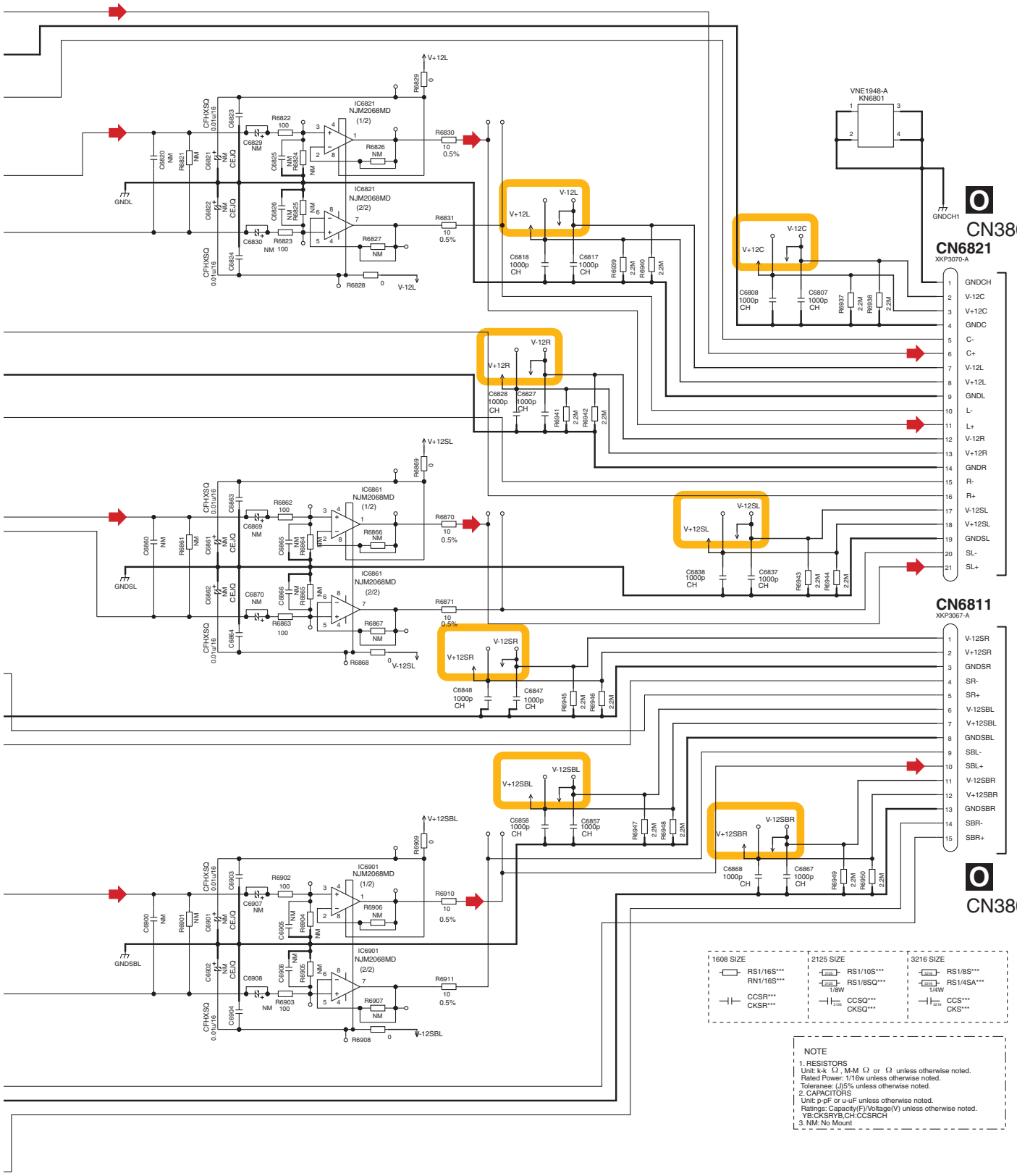
EVENT UCOM IC8001 PDC197A8

INPUT SELECTOR

10.25 ICE BUFFER ASSY

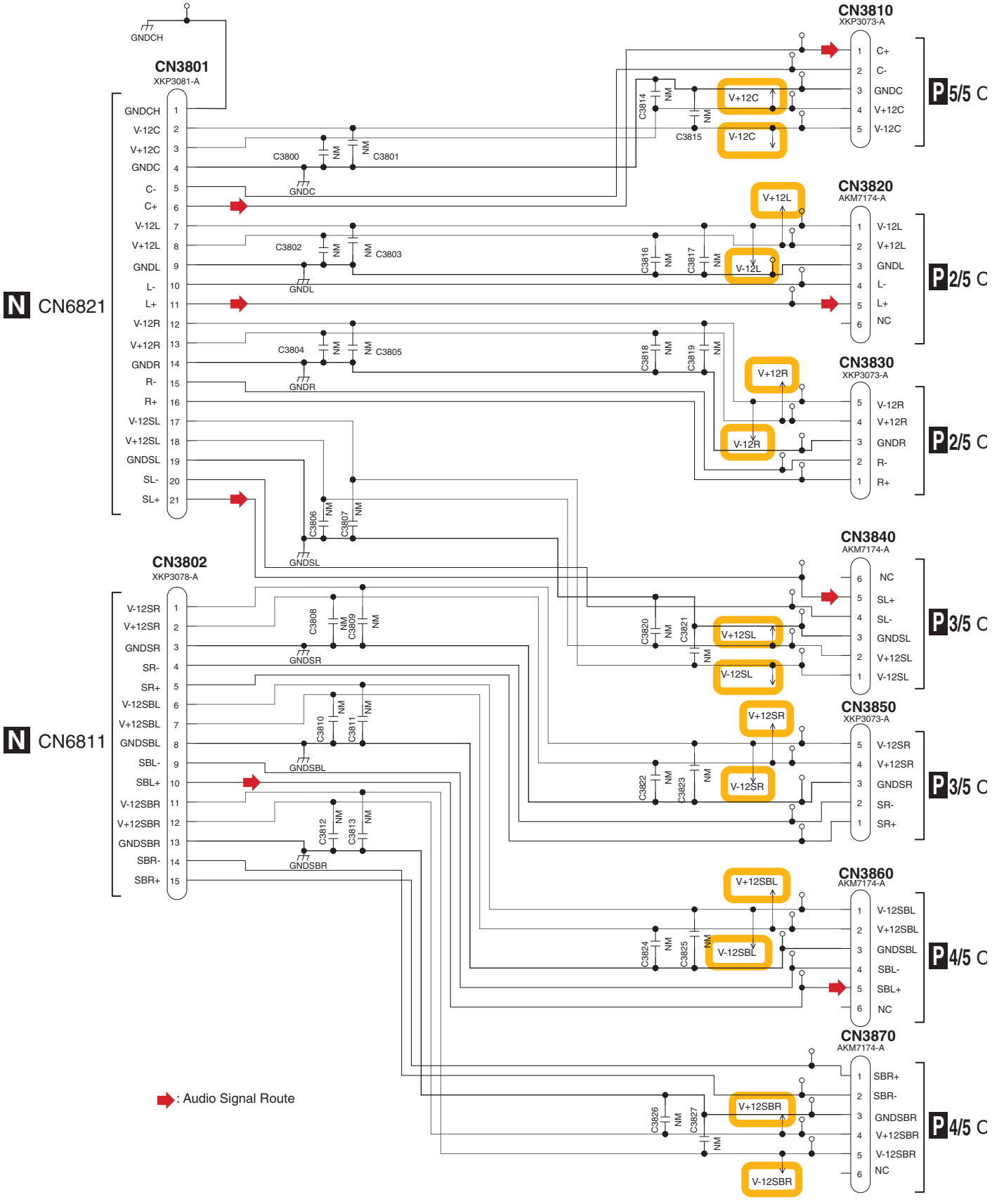


N ICE BUFER ASSY (AWX9598)



10.26 ICE INTERFACE ASSY

O ICE INTERFACE ASSY (AWX9596)



3810
073-A

C+
C-
GNDC
V+12C
V-12C

P 5/5 CN4700

3820
174-A

V-12L
V+12L
GNDL
L-
L+
NC

P 2/5 CN4100

3830
073-A

V-12R
V+12R
GNDR
R-
R+

P 2/5 CN4200

3840
7174-A

NC
SL+
SL-
GNDSL
V+12SL
V-12SL

P 3/5 CN4300

3850
3073-A

V-12SR
V+12SR
GNDSR
SR-
SR+

P 3/5 CN4400

3860
174-A

V-12SBL
V+12SBL
GNDSBL
SBL-
SBL+
NC

P 4/5 CN4500

3870
74-A

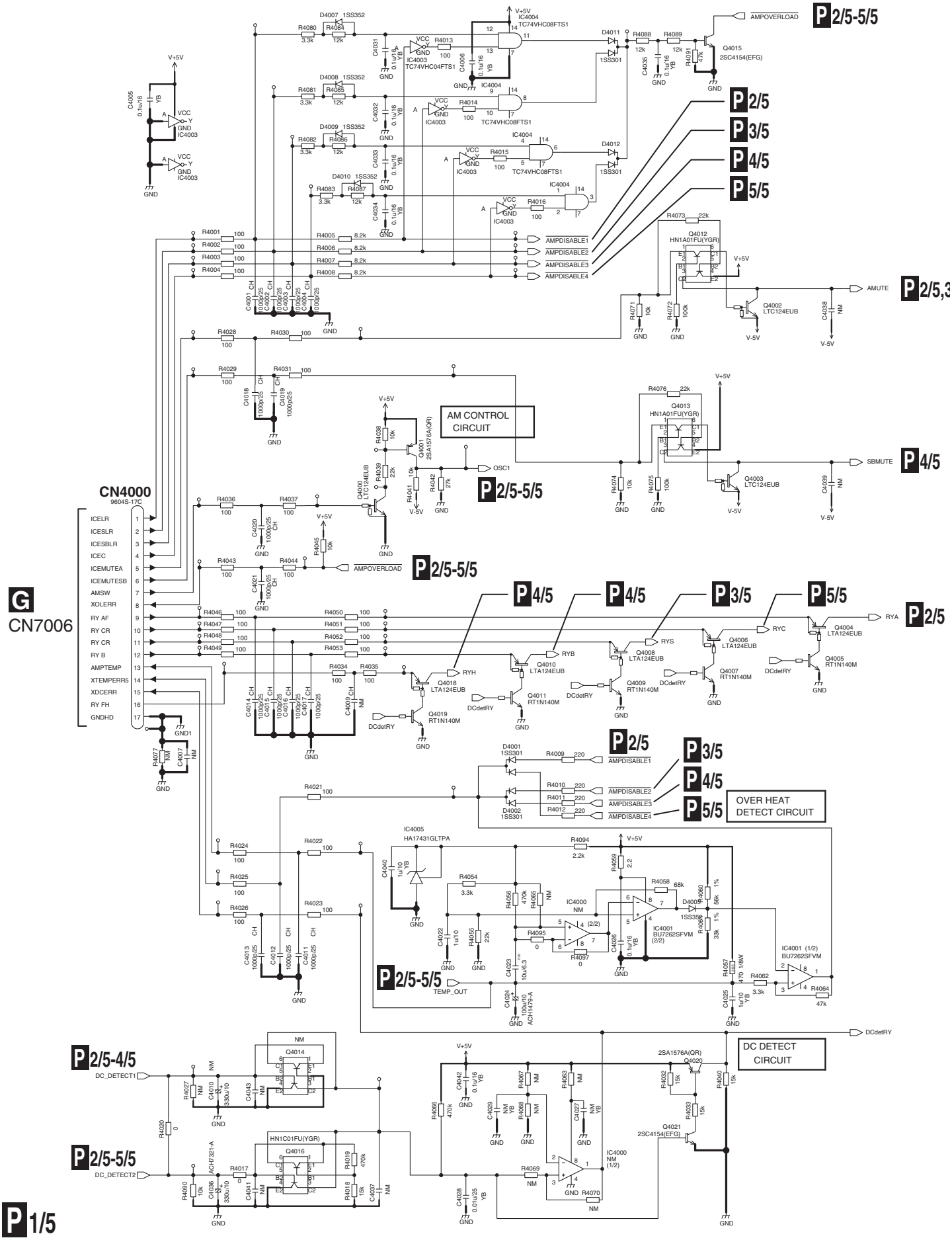
SBR+
SBR-
GNDSBR
V+12SBR
V-12SBR
NC

P 4/5 CN4600

NOTE
1. RESISTORS
Unit: k-k Ω , M-M Ω 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	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***

10.27 ICEPOWER AMP ASSY (1/5)



P1/5 ICEPOWER AMP ASSY (1/5) (SC-37: AWH7024) (SC-35,SC-1525-K: AWH7025)

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

AMUTE → P2/5,3/5,5/5

NM

U CN7303

CN4900

CKS-557--

+B(+64V) 1
GND 2
GND 3
-B(-64V) 4

NM 100p/500V
ACE7082-A 100p/500V
ACE7082-A 100p/500V
ACE7082-A 100p/500V
ACHF305-A 2700u/80
ACHF305-A 2700u/80
ACHF305-A 2700u/80
ACHF305-A 2700u/80
ACN7180-A-T

C4935 C4932 C4933 C4900 C4902 C4904 R4904 1M

V+64V

C4901 C4903 C4905 R4903 1M

GND

V-64V

C4927 0.01u/630 GNDCH
C4928 0.01u/630 CCG1245-A-T
C4929 0.01u/630 CCG1245-A-T

ACHF305-A 2700u/80
ACHF305-A 2700u/80
ACHF305-A 2700u/80
ACN7180-A-T

SBMUTE → P4/5

NM

T CN7241

CN4901

KM200NA2

10V_drive 1
10V_drive_GND 2

ACN7180-A-T
ACHF7311-A-T 220u/25
R4905 1M
C4908
C4909 0.1u/25 YB
C4934 NM CFWX5Q103J16-T

VSS+10V

V-64V

/5

RYA → P2/5

Q4004 A124EUB

005 1N140M

T CN7271

CN4902

KM200NA4

V+5MD 1
GND_MD 2
V-5_MD 3
GND(S) 4

R4906 1M
C4910 330u/10 ACHF321-A
C4912 1u/16 YB
C4914 0.1u/16
C4930 1000p/50 CH
D4901 NM

R4910 1M
C4911 330u/10 ACHF321-A
C4913 1u/16 YB
C4915 0.1u/16
C4931 1000p/50 CH
D4902 NM

GND

V+5V

V-5V

T CN7251

CN4903

KM200NA7

V+12DF 1
GND_DF 2
V-12DF 3
GND_DF(S) 4
V+12RY 5
V-12RY 6
V-12RY 7

R4908 1M
C4918 NM
C4920 1u/16
C4924 1u/25 YB
D4903 NM

R4909 1M
C4919 NM
C4921 1u/16
C4925 0.1u/25 YB
D4904 NM

GND

V+12V

KN4502 NM

V-12V

V+12RY

V-12RY

V+64V

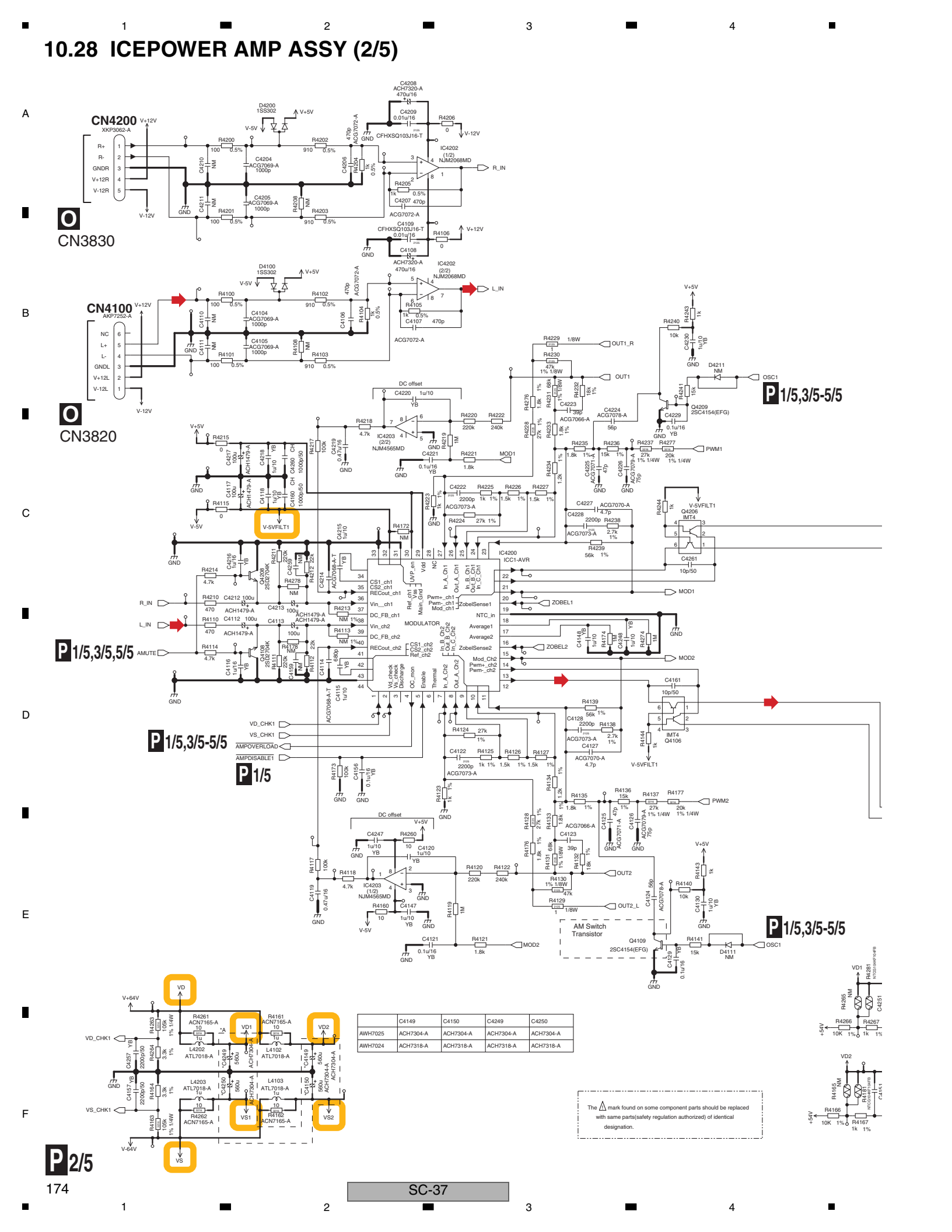
R4900 16K 1%
R4901 33K 1%
IC4900 NJM1431AU
C4926 0.01u/25 YB
+54V
R4902 6.8k RS2LMF682J
GND

DCdetRY

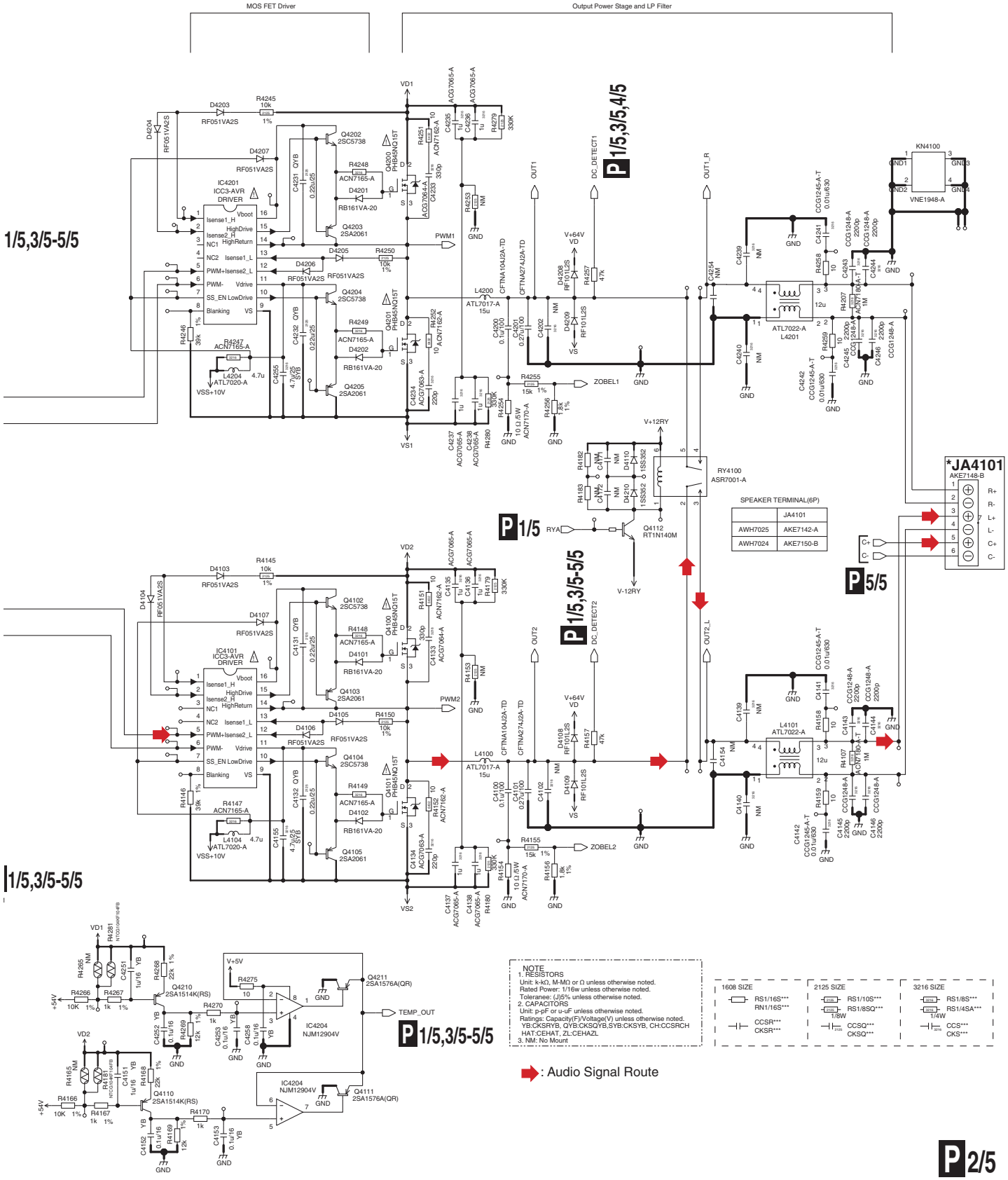
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, QYB:CKSQYB,SYB:CKSYB, CH:CCSRCH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

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

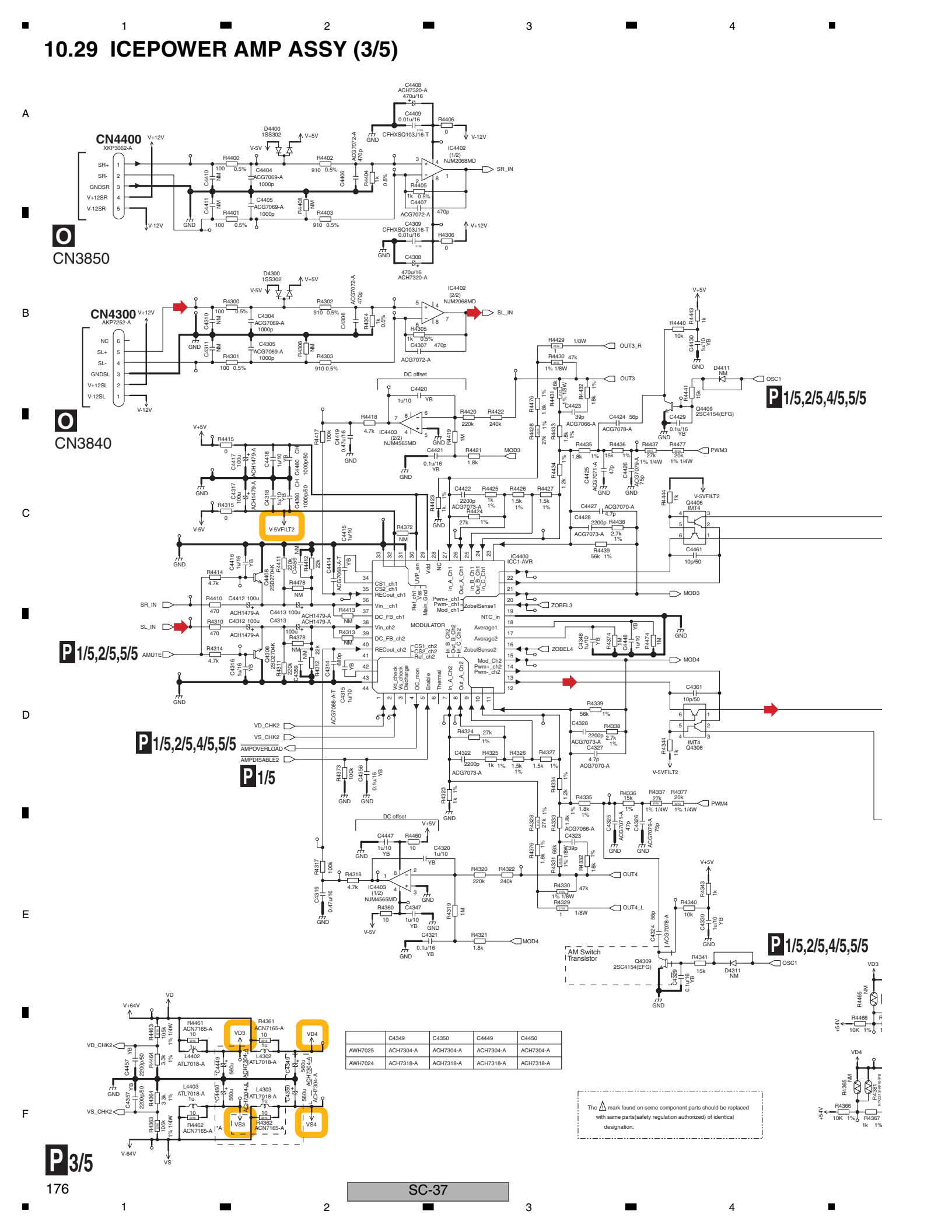
10.28 ICEPOWER AMP ASSY (2/5)


CN4200
CN3830
CN4100
CN3820
P1/5,3/5,5/5
P1/5,3/5-5/5
P1/5
P2/5
AMUTE
VD_CHK1
VS_CHK1
AMPOVERLOAD
AMPDISABLE1
R_IN
L_IN
OUT1_R
OUT1
OUT2
OUT2_L
PWM1
PWM2
MOD1
MOD2
OSC1
V-5VFILT1
ZOBEL1
ZOBEL2
AM Switch Transistor
IC4200 ICC1-AVR
MODULATOR
IC4202 (1/2) NJM2068MD
IC4202 (2/2) NJM2068MD
IC4203 (1/2) NJM4565MD
IC4203 (2/2) NJM4565MD
DC offset
ACG7072-A
ACG7073-A
ACG7066-A
ACG7078-A
ACG7070-A
ACG7071-A
ACG7079-A
ACG7068-A-T
ACG7069-A
Q4209 2SC4154(EFG)
Q4109 2SC4154(EFG)
Q4206 IMT4
Q4106 IMT4
Q4200 2SD2704K
Q4201 2SD2704K
Q4202 2SB1706K
Q4203 2SB1706K
D4200 1SS302
D4100 1SS302
D4211 NM
D4111 NM
V+64V
V-64V
V+12V
V-12V
V+5V
V-5V
GND
VD
VD1
VD2
VS
VS1
VS2
R4261 ACN7165-A
R4161 ACN7165-A
R4262 ACN7165-A
R4162 ACN7165-A
L4202 ATL7018-A
L4102 ATL7018-A
L4203 ATL7018-A
L4103 ATL7018-A
C4149 ACH7304-A
C4150 ACH7304-A
C4249 ACH7304-A
C4250 ACH7304-A
C4208 ACH7320-A
C4108 ACH7320-A
C4209 0.01u/16
C4109 0.01u/16
CFHXSQ103J16-T
R4206 0
R4106 0
R4200 100 0.5%
R4202 910 0.5%
R4201 100 0.5%
R4203 910 0.5%
R4100 100 0.5%
R4102 910 0.5%
R4101 100 0.5%
R4103 910 0.5%
C4204 ACG7069-A 1000p
C4205 ACG7069-A 1000p
C4104 ACG7069-A 1000p
C4105 ACG7069-A 1000p
C4206 470p
C4106 470p
R4204 1k 0.5%
R4104 1k 0.5%
R4205 1k 0.5%
R4105 1k 0.5%
C4207 470p
C4107 470p
C4210 NM
C4211 NM
C4208 NM
C4110 NM
C4111 NM
C4108 NM
R4229 1/8W
R4230 47k 1% 1/8W
R4231 68k 1% 1/8W
R4232 18k 1%
R4276 1.8k 1%
R4228 27k 1%
R4233 1.8k 1%
R4234 1.2k 1%
R4235 1.8k 1%
R4236 15k 1%
R4237 27k 1% 1/4W
R4277 20k 1% 1/4W
R4240 10k
R4243 1k
R4241 15k
C4220 1u/10 YB
C4223 39p
C4224 ACG7078-A 56p
C4229 0.1u/16 YB
C4230 1u/10 YB
C4225 ACG7071-A 47p
C4226 ACG7079-A 75p
R4218 4.7k
R4219 1M
R4220 220k
R4222 240k
C4221 0.1u/16 YB
R4221 1.8k
R4223 1k
R4224 27k 1%
C4222 2200p
R4225 1k 1%
R4226 1.5k 1%
R4227 1.5k 1%
C4227 ACG7070-A 4.7p
C4228 2200p ACG7073-A
R4238 2.7k 1%
R4239 56k 1%
R4244 1k
C4261 10p/50
R4215 0
C4217 100u
C4218 1u/10 YB
C4260 1000p/50 CH
C4219 0.47u/16 YB
R4217 100k
C4216 1u/16 YB
R4211 220k NM
C4259 NM
R4212 22k
C4214 2200p
R4278 NM
R4115 0
C4215 1u/10
R4172 NM
R4214 4.7k
R4210 470
C4212 100u ACH1479-A
C4213 100u ACH1479-A
R4213 NM 1%
R4110 470
C4112 100u ACH1479-A
C4113 100u ACH1479-A
R4113 NM 1%
R4114 4.7k
R4178 NM
C4116 1u/16 YB
R4111 220k NM
C4159 NM
R4112 22k
C4114 680p
C4115 1u/10
C4161 10p/50
R4139 56k 1%
C4128 2200p
R4138 2.7k 1%
C4127 ACG7070-A 4.7p
R4144 1k
R4124 27k 1%
C4122 2200p
R4125 1k 1%
R4126 1.5k 1%
R4127 1.5k 1%
R4173 100k
C4156 0.1u/16 YB
R4123 1k 1%
R4134 1.2k 1%
R4135 1.8k 1%
R4136 15k 1%
R4137 27k 1% 1/4W
R4177 20k 1% 1/4W
C4125 47p
C4126 75p
R4128 27k 1%
R4133 1.8k 1%
R4176 1.8k 1%
R4131 68k 1% 1/8W
C4123 39p
R4132 18k 1%
R4143 1k
R4140 10k
C4130 1u/10 YB
R4117 100k
R4118 4.7k
C4119 0.47u/16 YB
R4120 220k
R4122 240k
R4130 1% 1/8W 47k
R4129 1/8W
C4124 56p
R4119 1M
R4160 10
C4147 1u/10 YB
C4121 0.1u/16 YB
R4121 1.8k
C4247 1u/10 YB
R4260 10
C4120 1u/10 YB
R4261 ACN7165-A 10
R4161 ACN7165-A 10
R4263 105k 1% 1/4W
R4264 3.3k 1%
C4257 2200p/50 YB
C4157 2200p/50
R4164 3.3k 1%
R4163 105k 1% 1/4W
R4262 ACN7165-A 10
R4162 ACN7165-A 10
C4149 560u ACH7304-A
C4150 560u ACH7304-A
C4249 560u ACH7304-A
C4250 560u ACH7304-A
L4202 ATL7018-A 1u
L4102 ATL7018-A 1u
L4203 ATL7018-A 1u
L4103 ATL7018-A 1u
R4265 NM
R4266 10K 1%
R4267 1k 1%
R4165 NM
R4166 10K 1%
R4167 1k 1%
C4251 NM
C4151 NM
R4281 NM
R4282 NM
C4281 NM
C4282 NM
C4283 NM
C4284 NM
C4285 NM
C4286 NM
C4287 NM
C4288 NM
C4289 NM
C4290 NM
C4291 NM
C4292 NM
C4293 NM
C4294 NM
C4295 NM
C4296 NM
C4297 NM
C4298 NM
C4299 NM
C4300 NM

P2/5 ICEPOWER AMP ASSY (2/5) (SC-37: AWH7024) (SC-35,SC-1525-K: AWH7025)



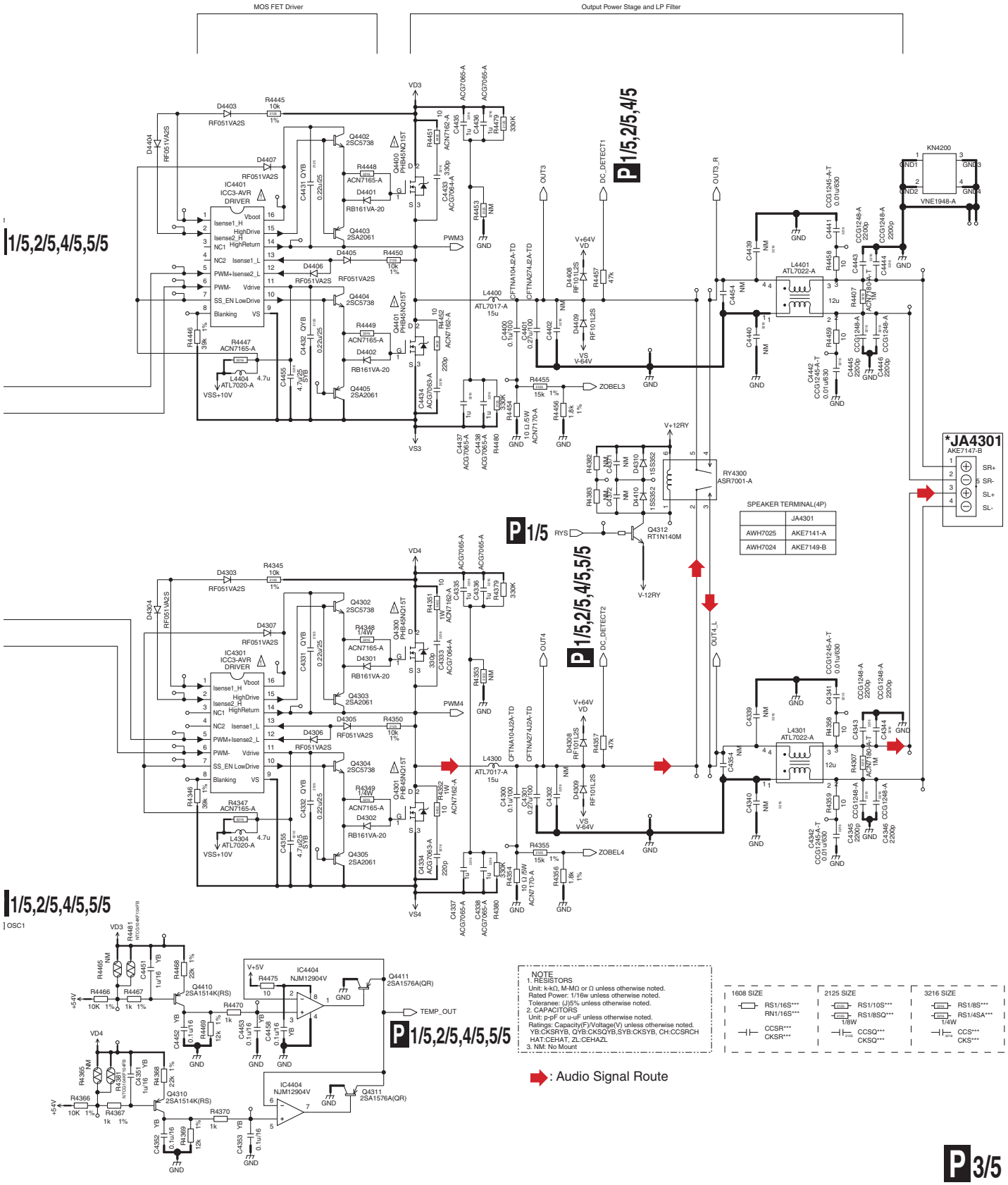
10.29 ICEPOWER AMP ASSY (3/5)



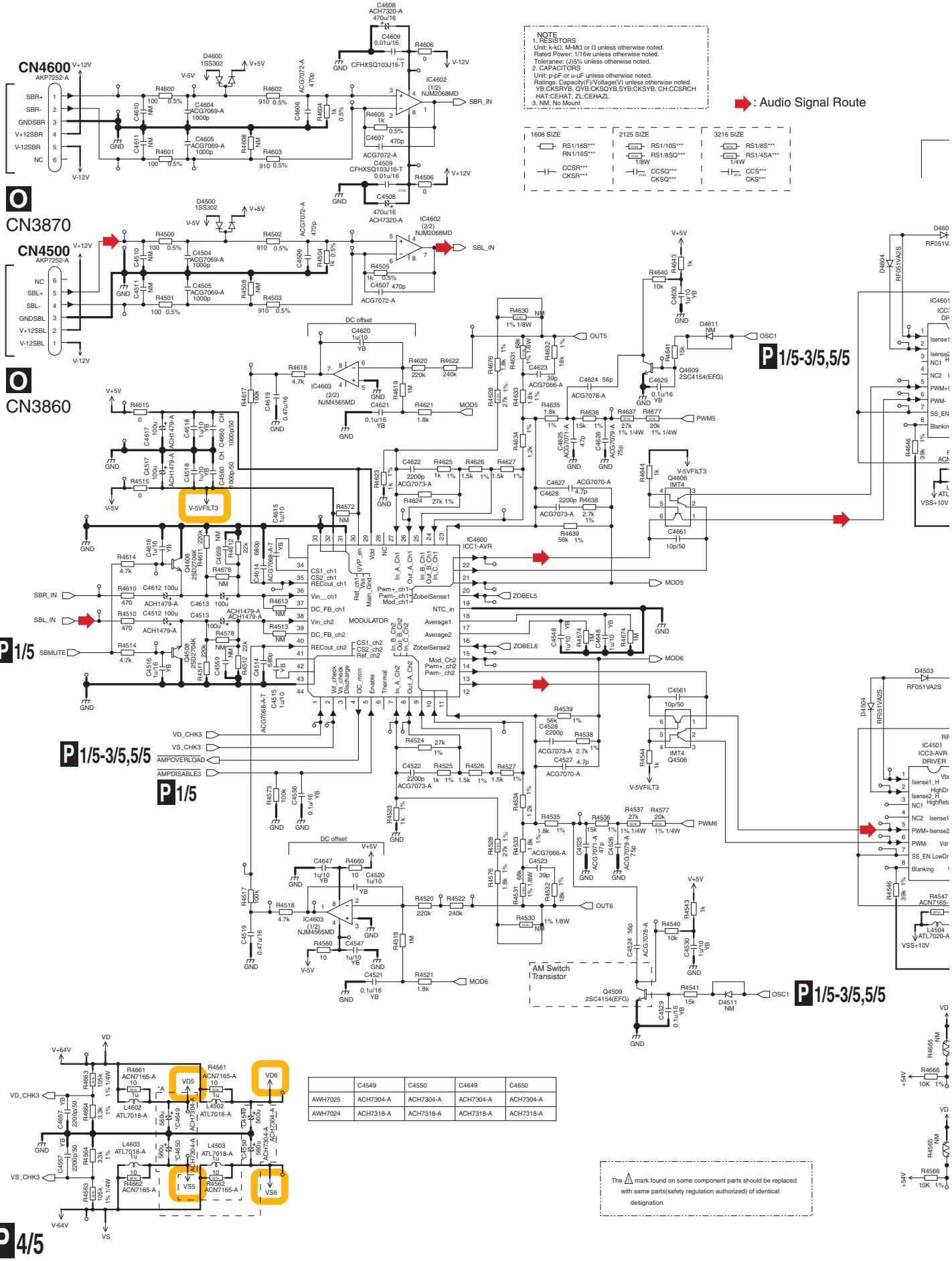
	C4349	C4350	C4449	C4450
AWH7025	ACH7304-A	ACH7304-A	ACH7304-A	ACH7304-A
AWH7024	ACH7318-A	ACH7318-A	ACH7318-A	ACH7318-A

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

P3/5 ICEPOWER AMP ASSY (3/5)
(SC-37: AWH7024)
(SC-35,SC-1525-K: AWH7025)



10.30 ICEPOWER AMP ASSY (4/5)

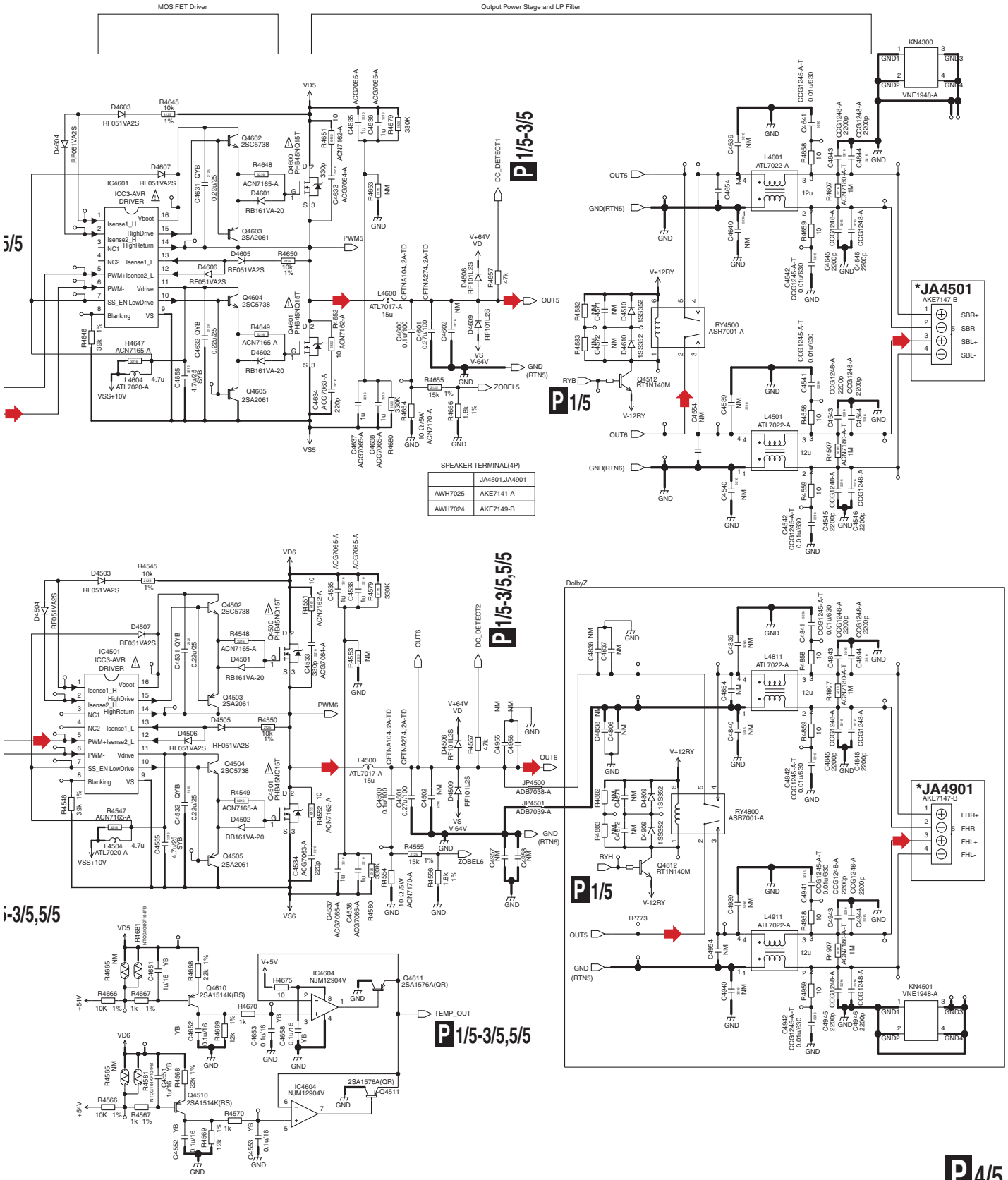


	C4549	C4550	C4649	C4650
AWH7025	ACH7304-A	ACH7304-A	ACH7304-A	ACH7304-A
AWH7024	ACH7318-A	ACH7318-A	ACH7318-A	ACH7318-A

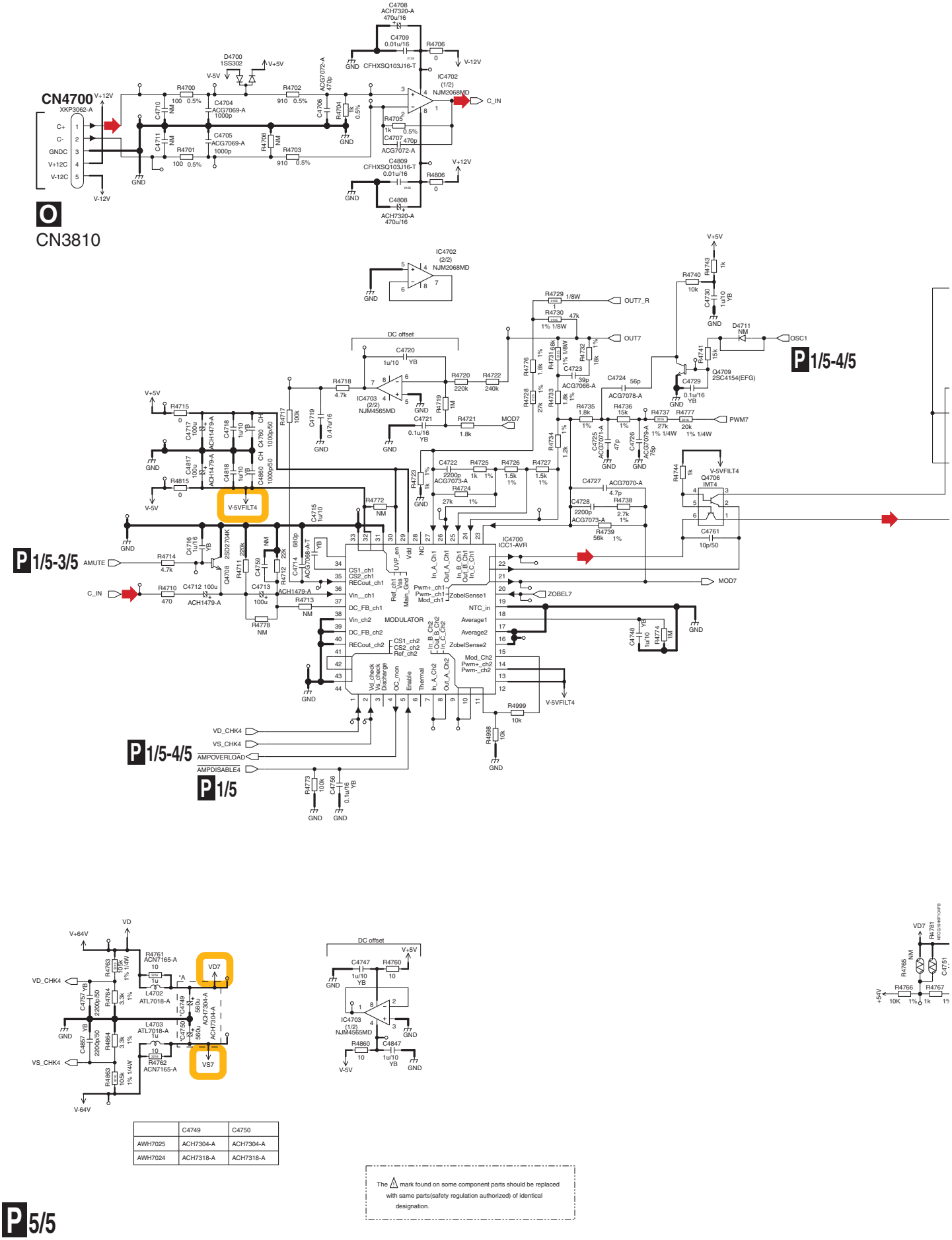
The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

P4/5 ICEPOWER AMP ASSY (4/5) (SC-37: AWH7024) (SC-35,SC-1525-K: AWH7025)

Route



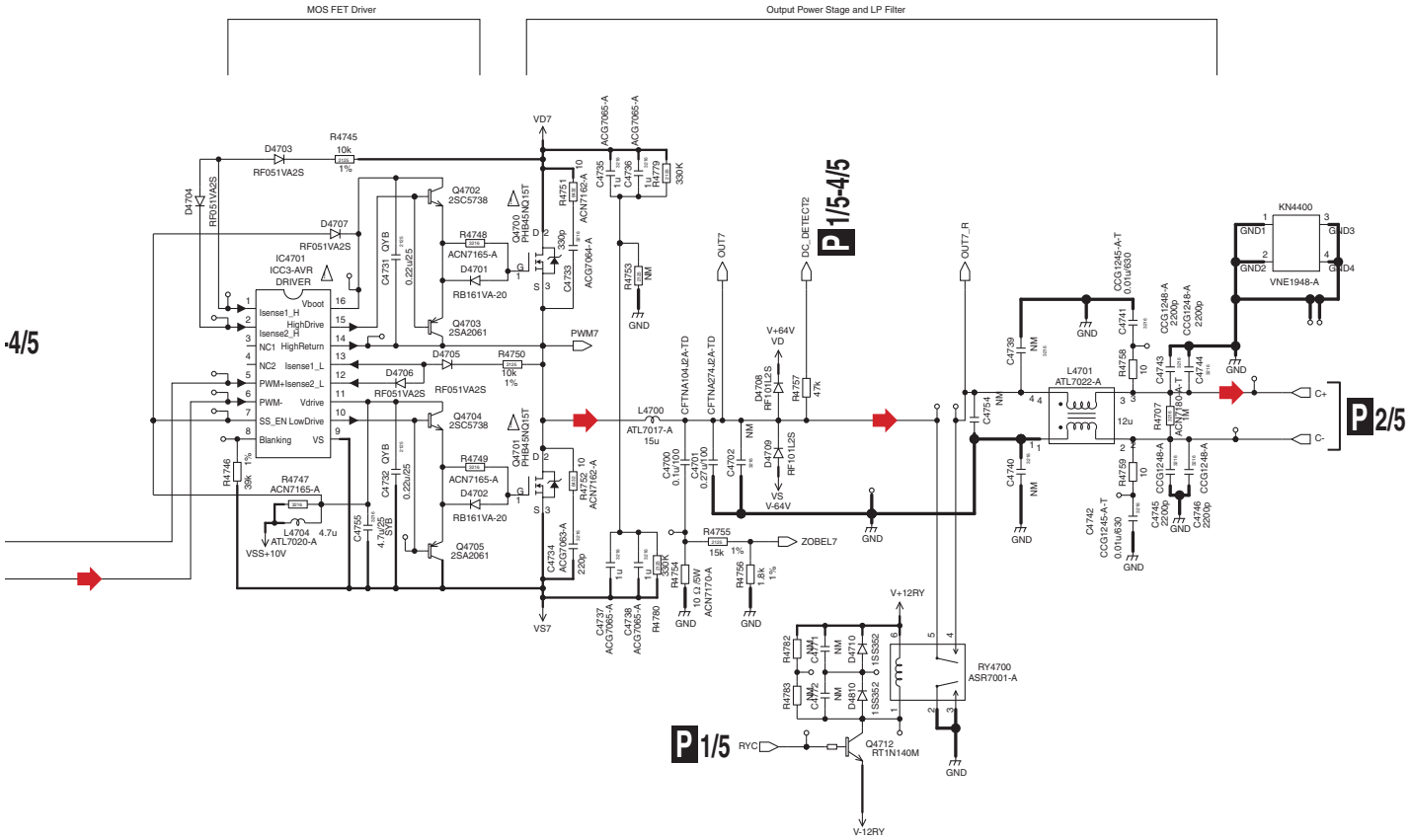
10.31 ICEPOWER AMP ASSY (5/5)

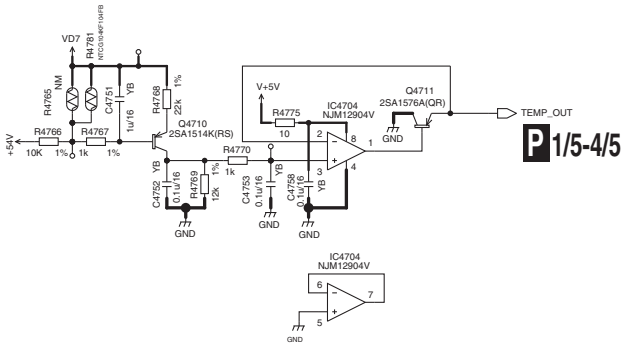


	C4749	C4750
AWH7025	ACH7304-A	ACH7304-A
AWH7024	ACH7318-A	ACH7318-A

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

P5/5 ICEPOWER AMP ASSY (5/5) (SC-37: AWH7024) (SC-35,SC-1525-K: AWH7025)





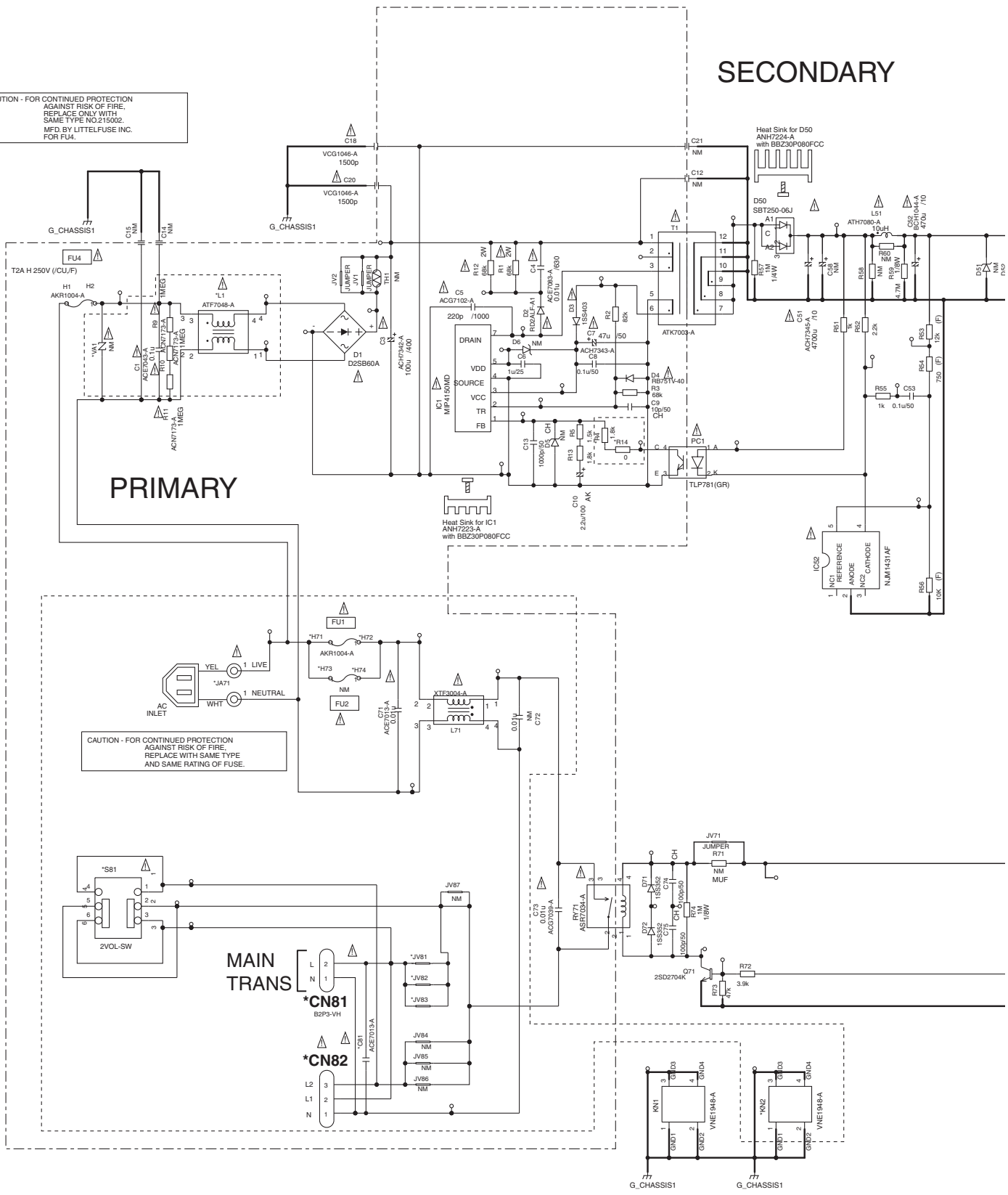
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSRYB, QYB:CKSQYB,SYB:CKSYB, CH:CCSRCH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

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

: Audio Signal Route

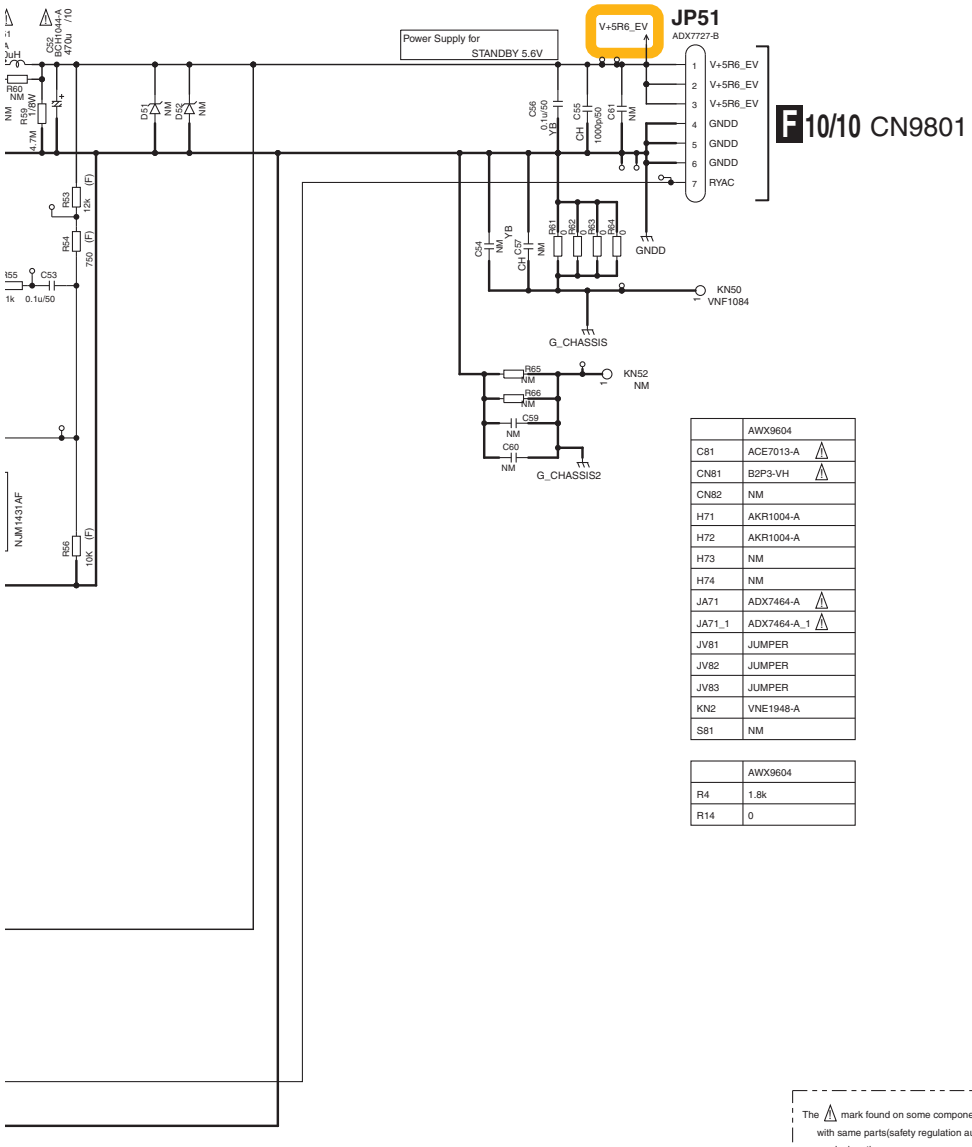
PRIMARY ASSY (AWX9604)

	L1	VA1
AWX9604	ATF7048-A ⚠	NM



PRIMARY ASSY

Y



	AWX9604
C81	ACE7013-A ⚠
CN81	B2P3-VH ⚠
CN82	NM
H71	AKR1004-A
H72	AKR1004-A
H73	NM
H74	NM
JA71	ADX7464-A ⚠
JA71_1	ADX7464-A_1 ⚠
JV81	JUMPER
JV82	JUMPER
JV83	JUMPER
KN2	VNE1948-A
S81	NM

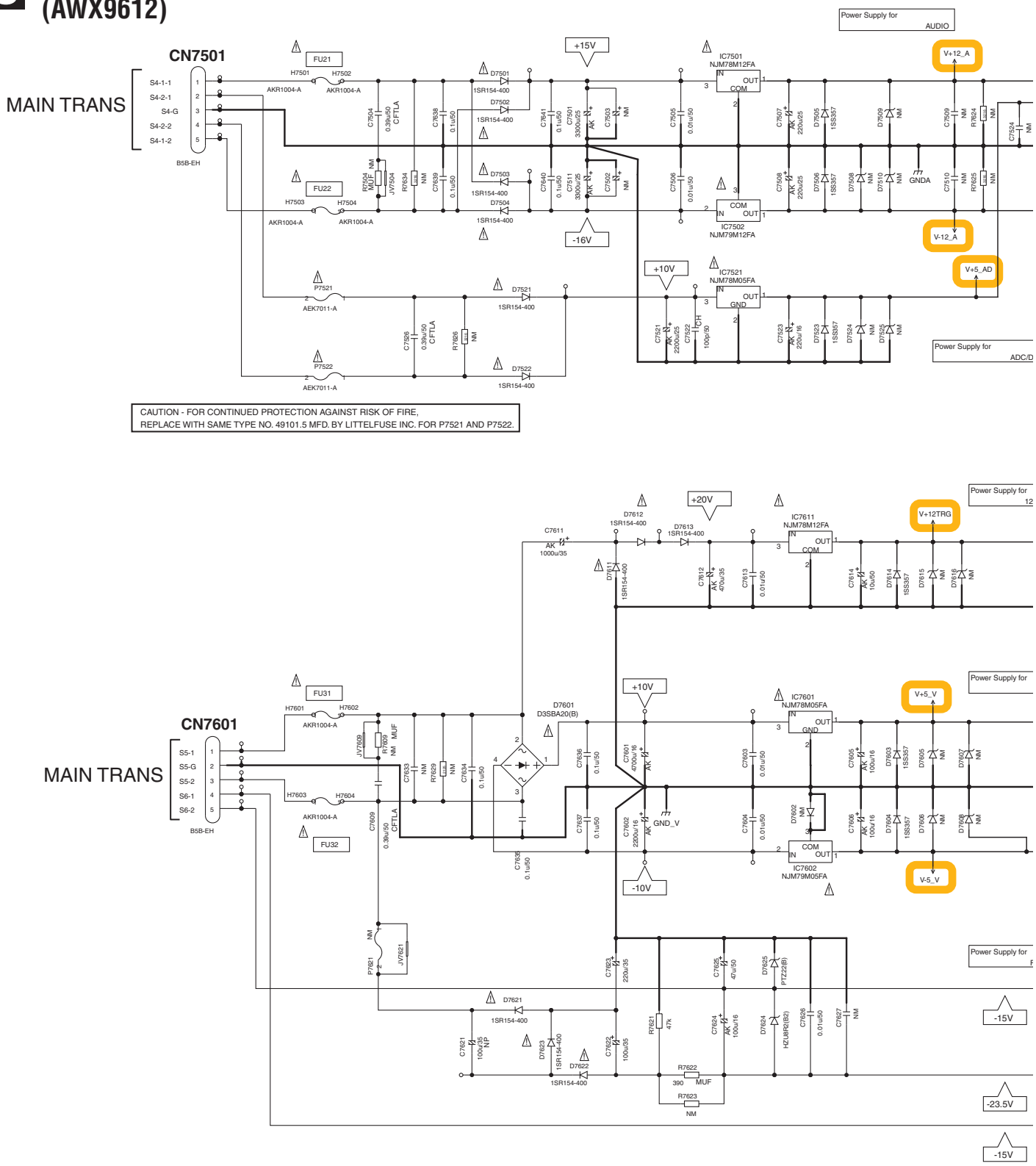
	AWX9604
R4	1.8k
R14	0

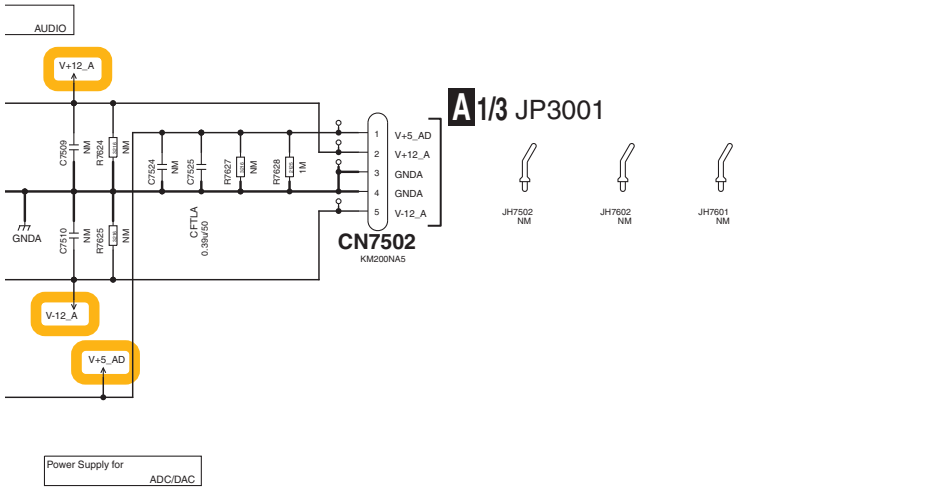
The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

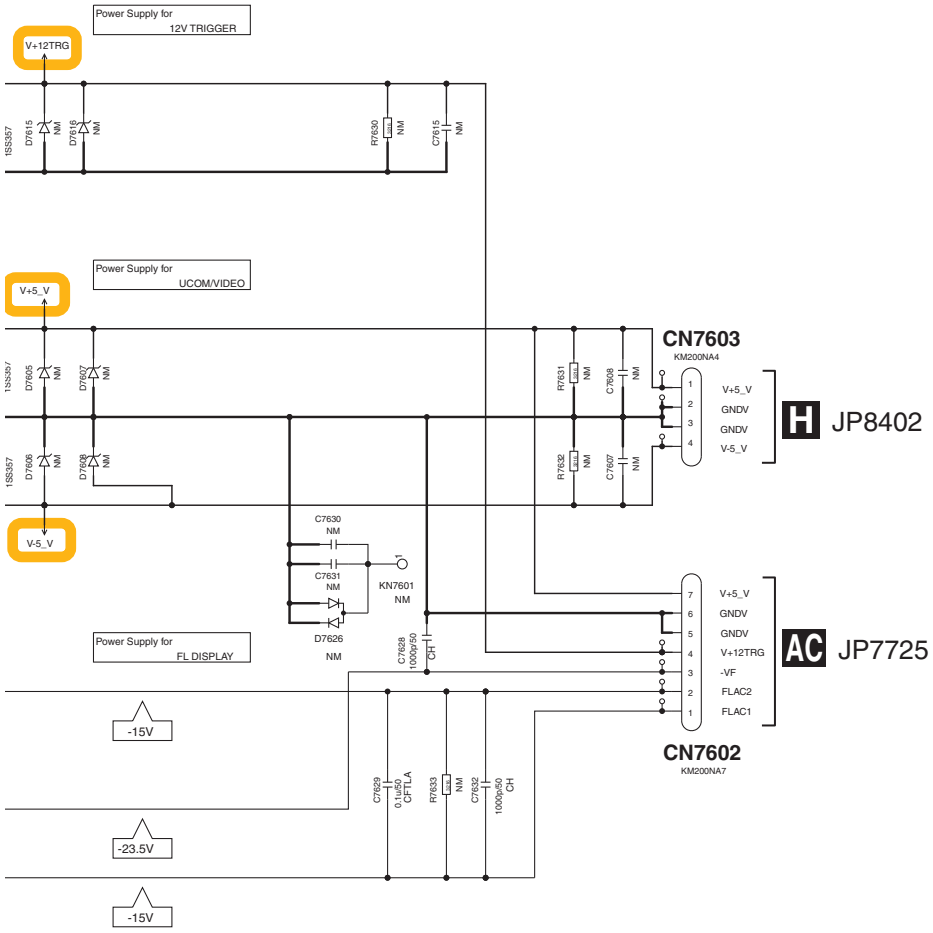
NOTE
1. RESISTORS
Unit: k-k Ω , M-M Ω or Ω unless otherwise noted.
Rated Power: 1/10w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
MUF : RD1/4MUF
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CH : CCSRCH , CFTLA : CFTLA
NO MARKED : CKSRYB or CEAT
3. NM: No Mount

10.33 REG ASSY

S REG ASSY (AWX9612)



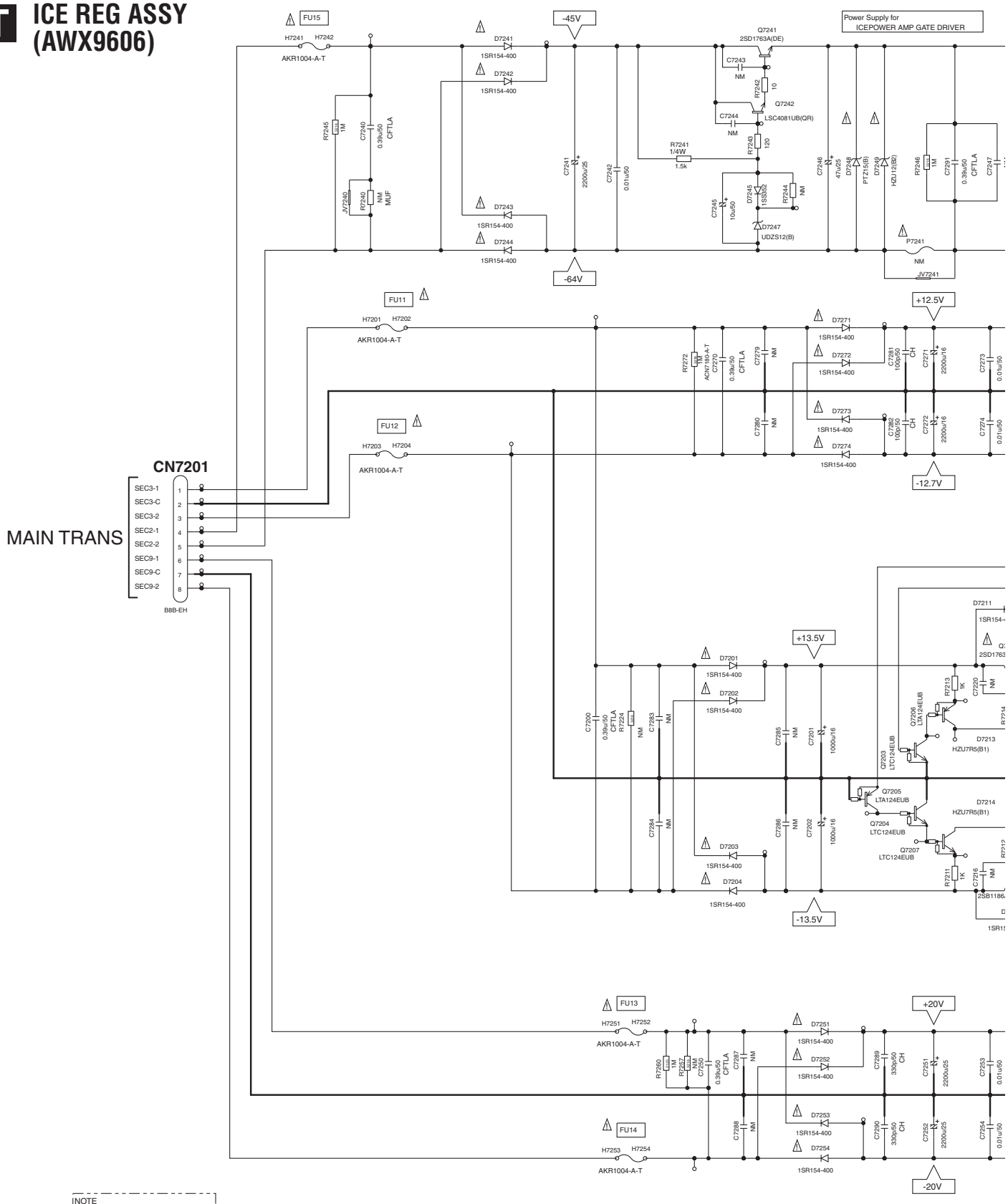




The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

10.34 ICE REG ASSY

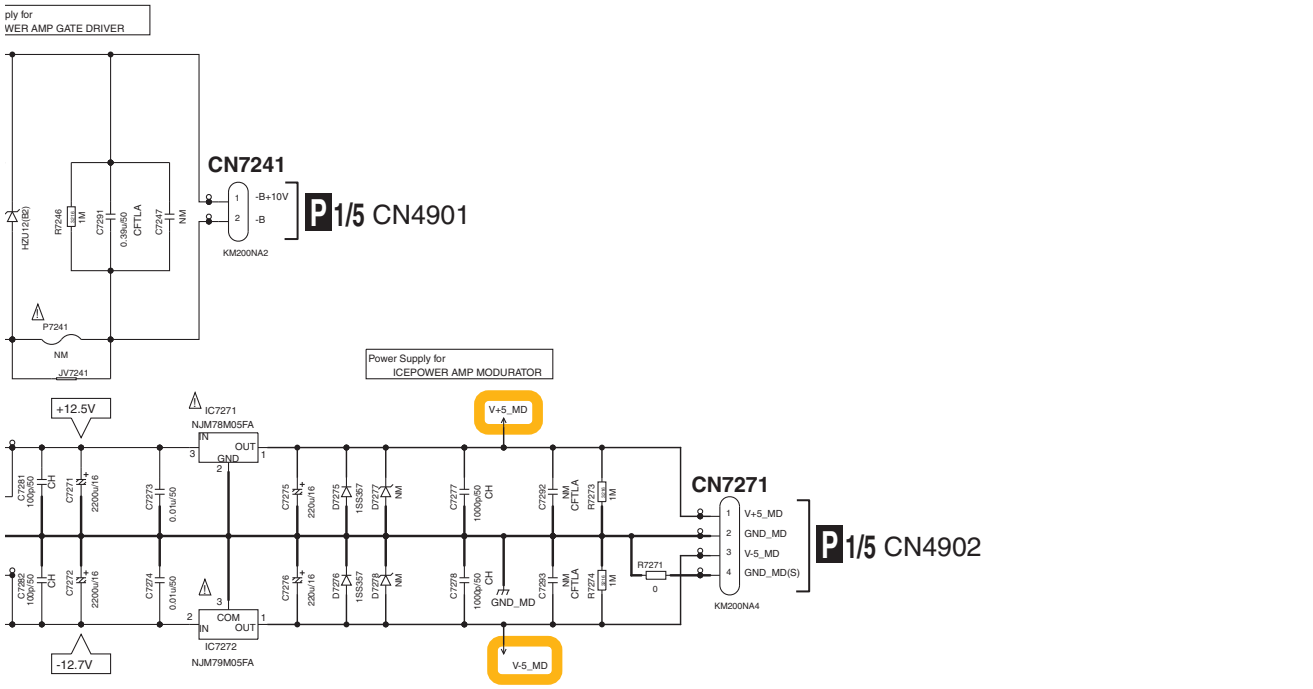
ICE REG ASSY (AWX9606)

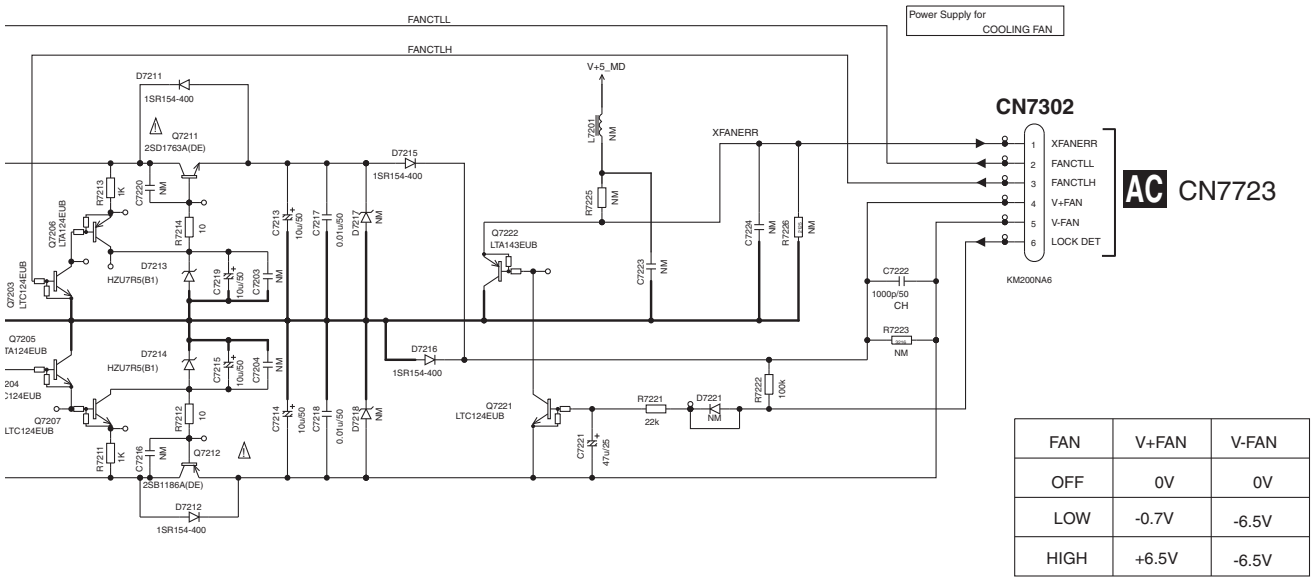


NOTE
1. RESISTORS
Unit: k-k Ω , M-M Ω or Ω unless otherwise noted.
Rated Power: 1/10W unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
MUF : RD1/4MUF
2125 : RS1/8SQ
3216 : RS1/4SA
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CH : CCSRCH , CFTLA : CFTLA
NO MARKED : CKSRYB or CEAK
3. NM: No Mount

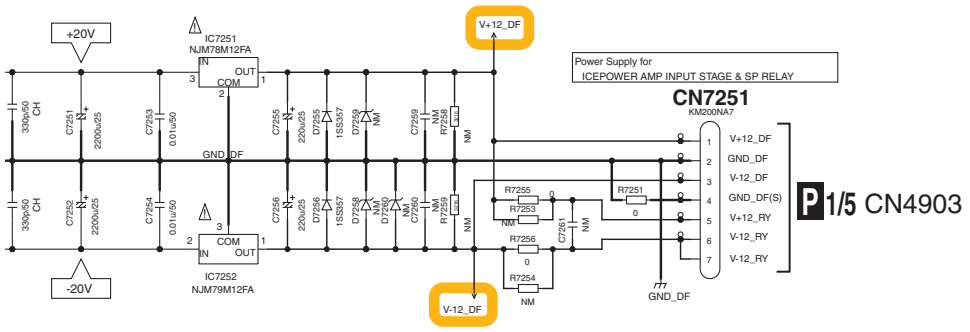
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

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



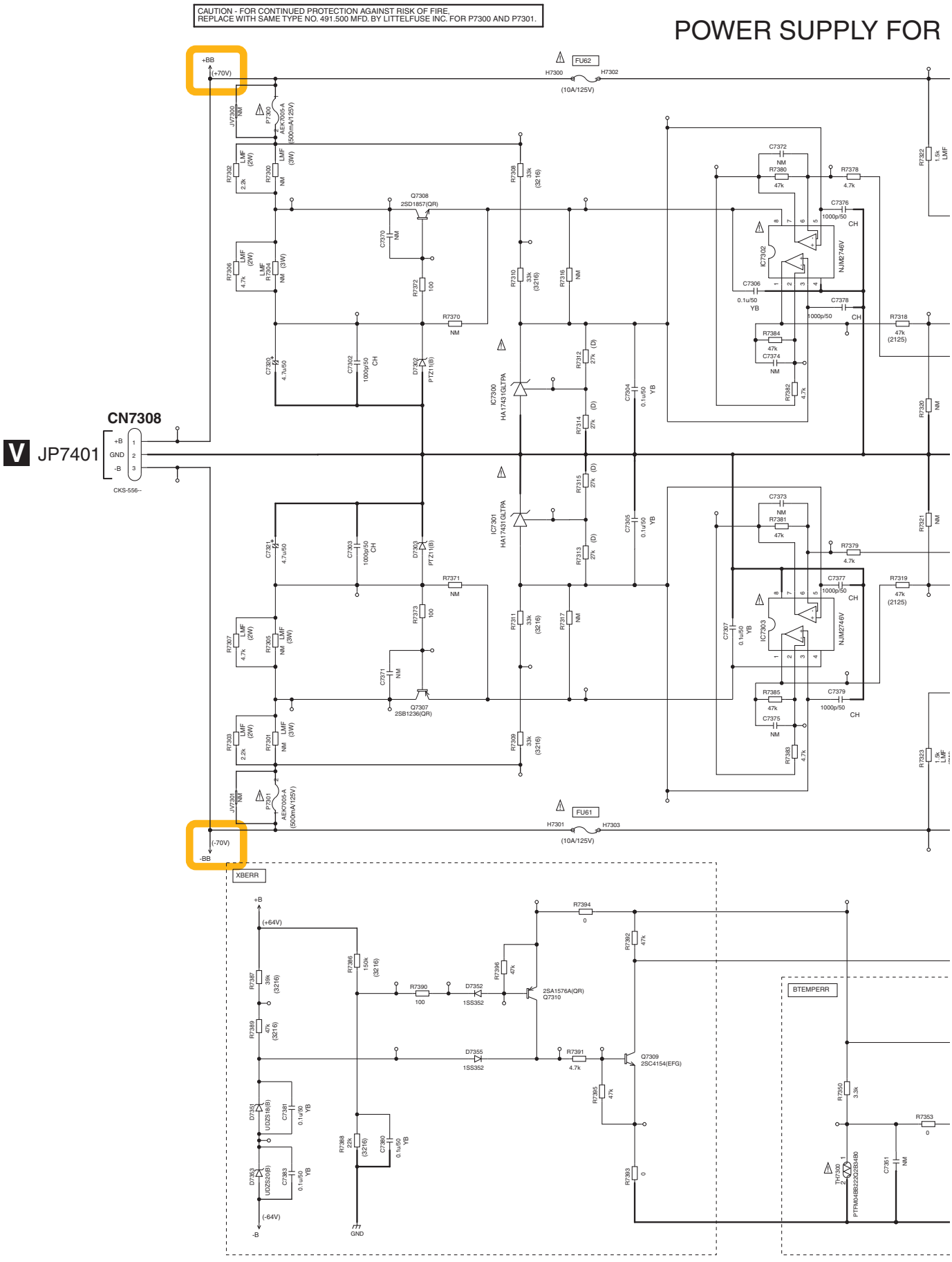


FAN	V+FAN	V-FAN
OFF	0V	0V
LOW	-0.7V	-6.5V
HIGH	+6.5V	-6.5V



und on some component parts should be replaced
rts(safety regulation authorized) of identical
n.

10.35 B REG ASSY

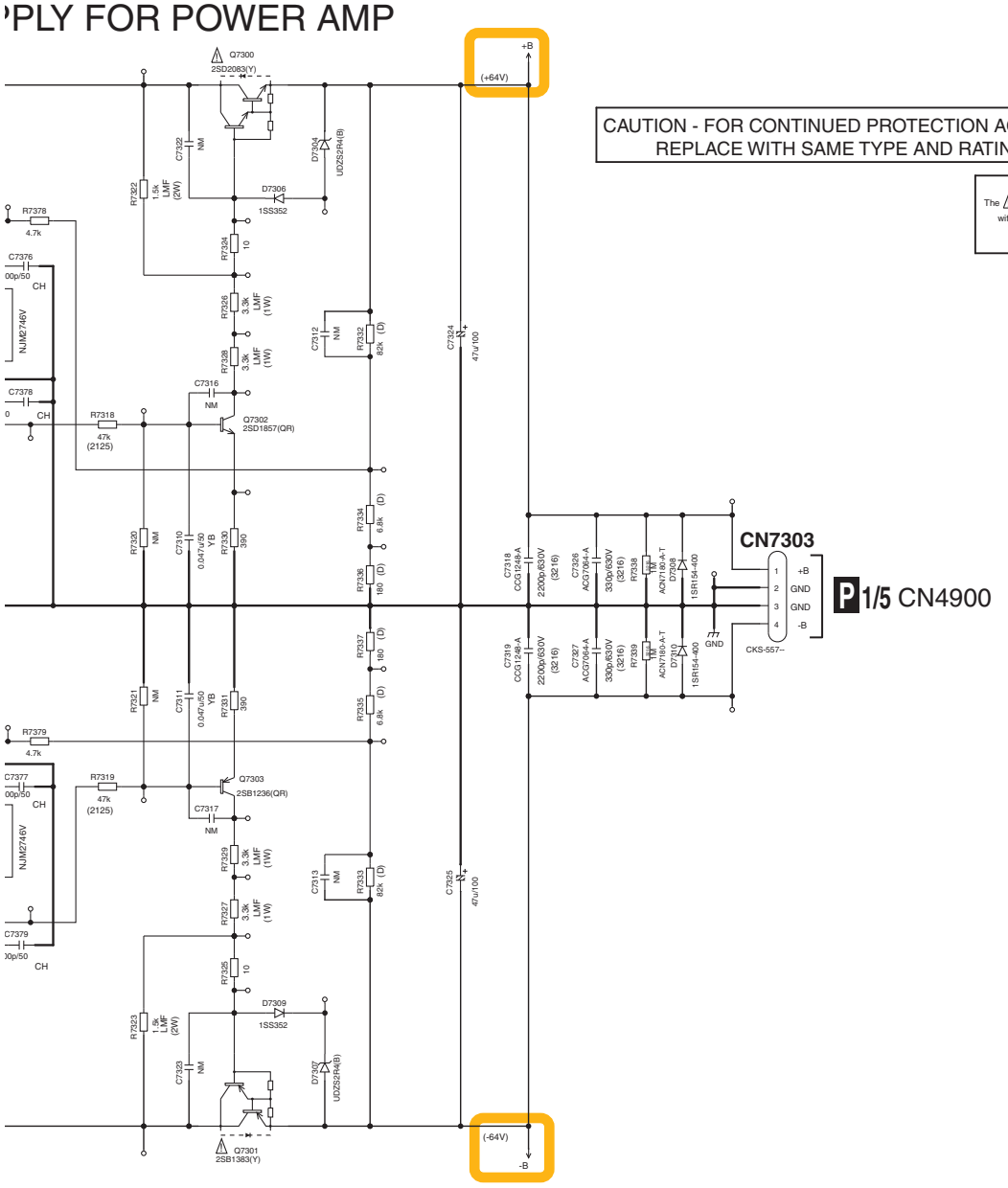


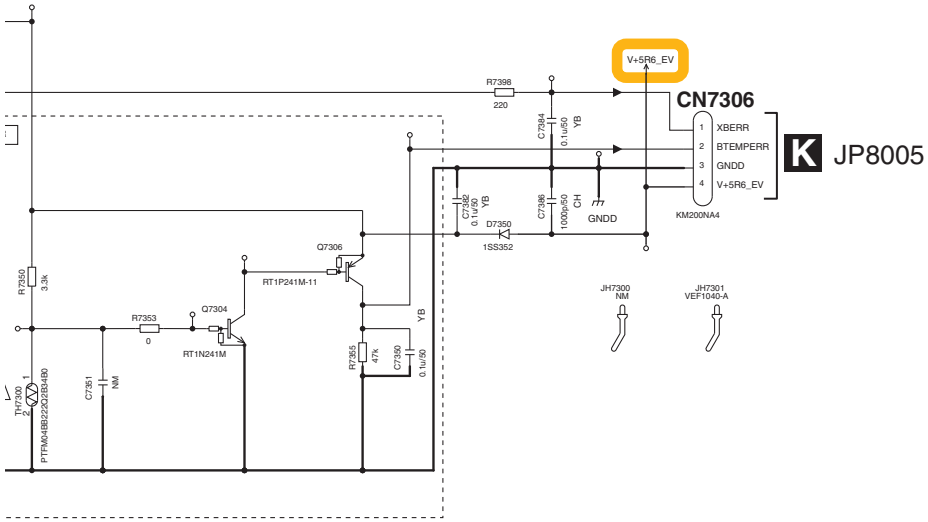
PLY FOR POWER AMP

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-k Ω , M-M Ω or Ω unless otherwise noted.
Rated Power: 1/10w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
LMF : RS1LMF,RS2LMF,RS3LMF
3216 : RS1/4SA , 2125 : RS1/8SQ
unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
NO MARKED : CKSRYB or CEAK
3. NM: No Mount



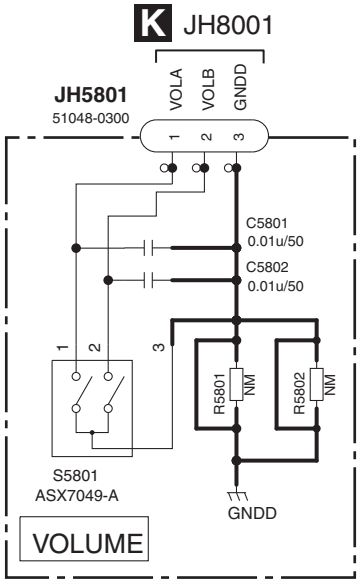


PROTECTION DETECT

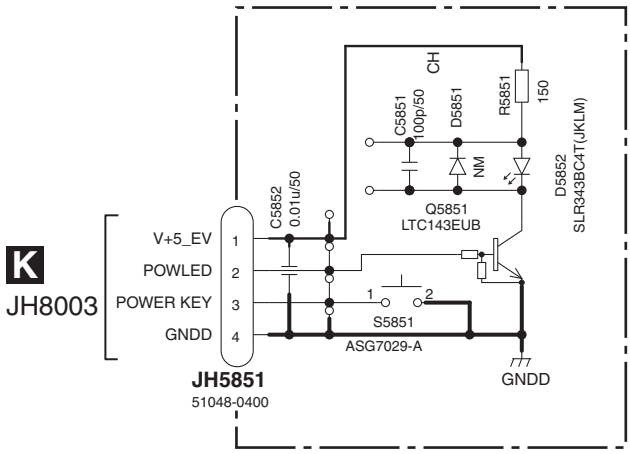
PROTECT MODE	Normal	Detect
XBERR	Hi	Low
BTEMPERR	Low	Hi

10.36 VOL, POWER SW and PRIMARY SHIELD ASSYS

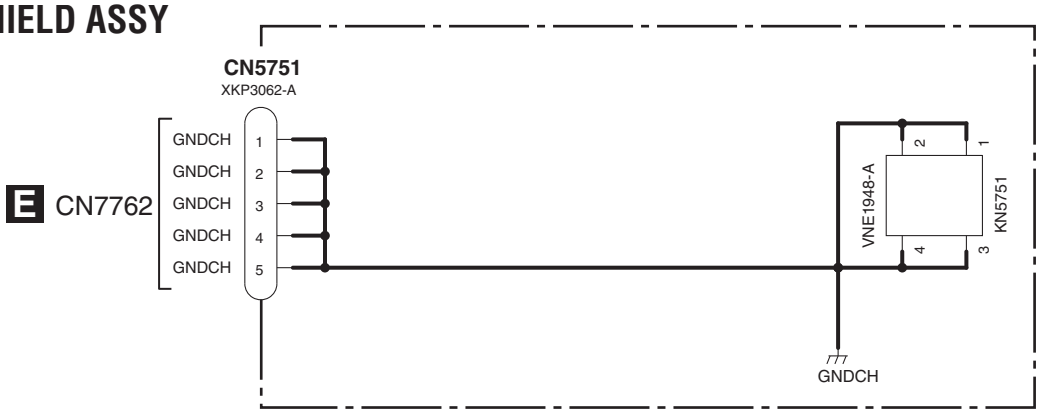
L VOL ASSY (AWX9601)



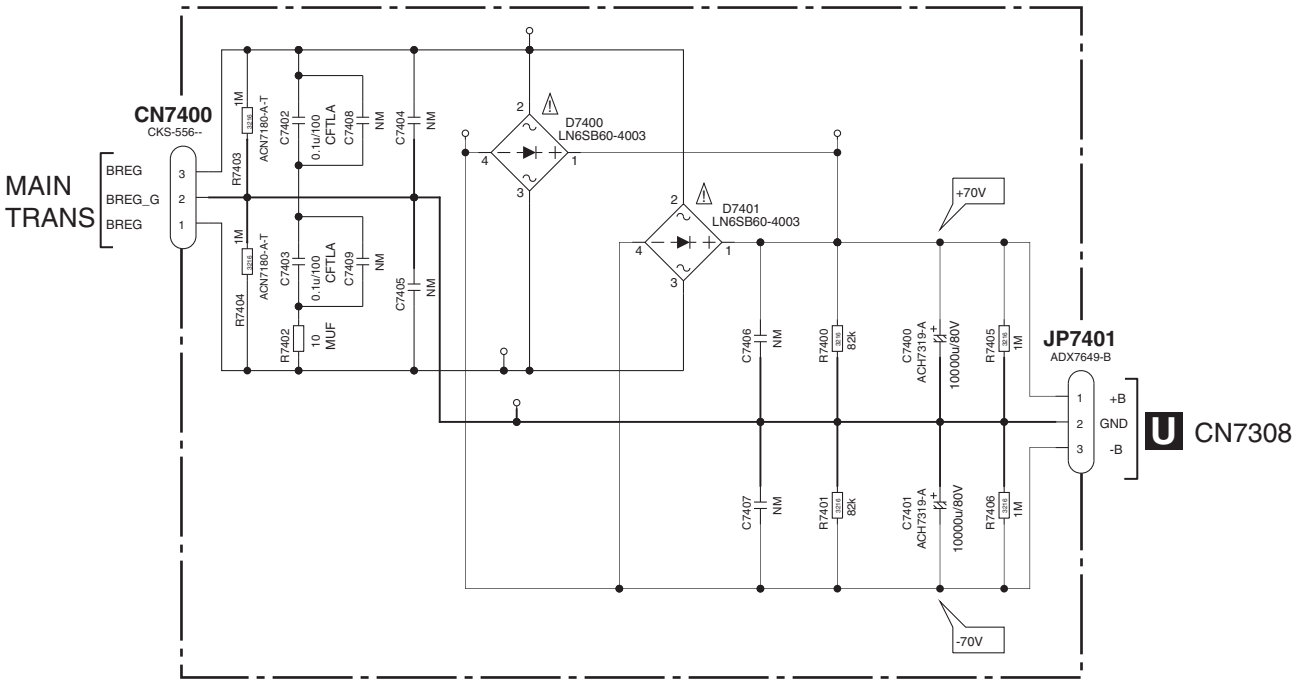
M POWER SW ASSY (AWX9602)



R PRIMARY SHIELD ASSY (AWX9603)



V B-DIODE ASSY (AWX9608)



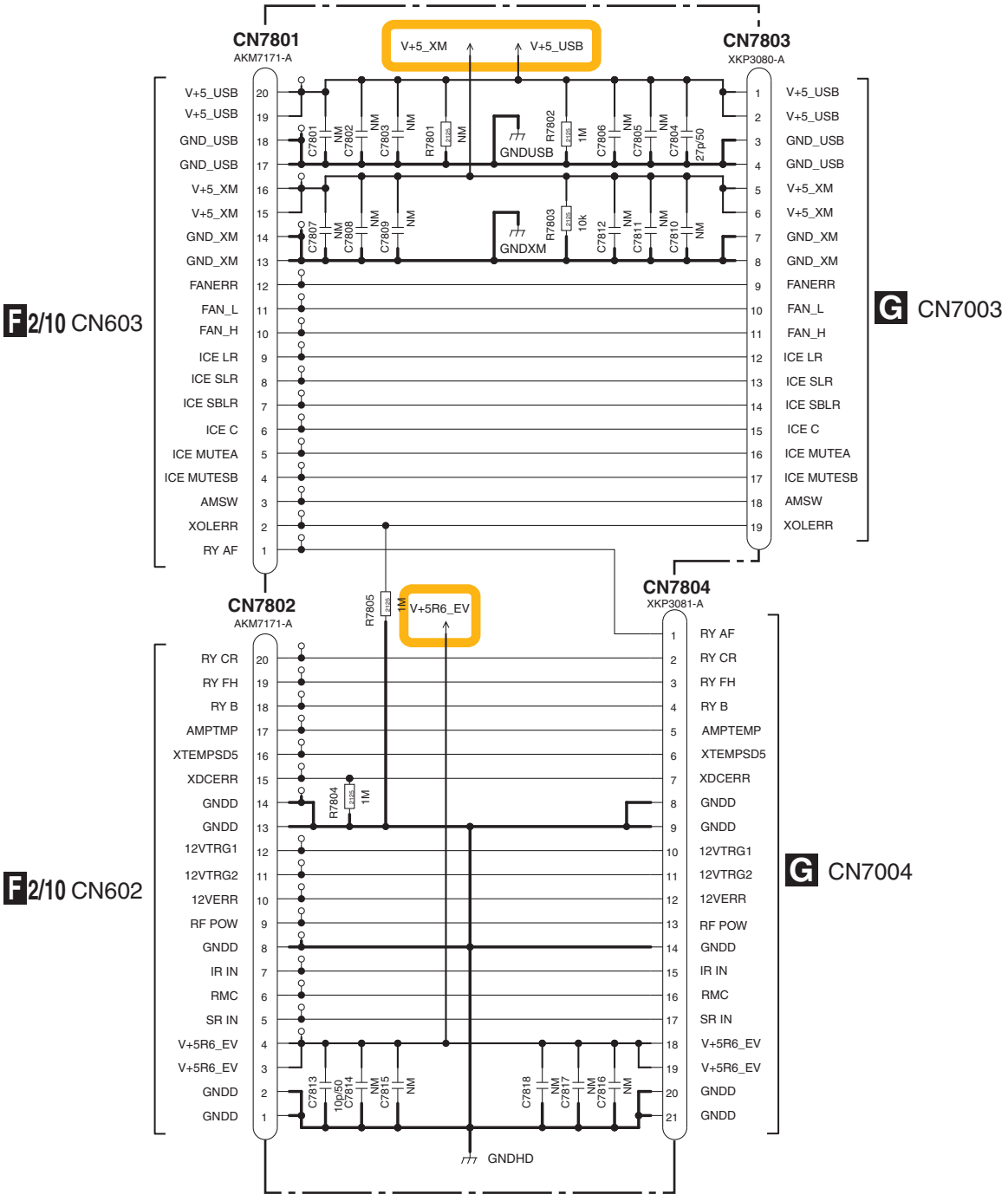
The ⚠ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

NOTE
1. RESISTORS
Unit: k-k Ω , M-M Ω or Ω unless otherwise noted.
Rated Power: 1/10w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.
MUF : RD1/4MUF
3216 : RS1/4SA unless otherwise noted.
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

KN5751

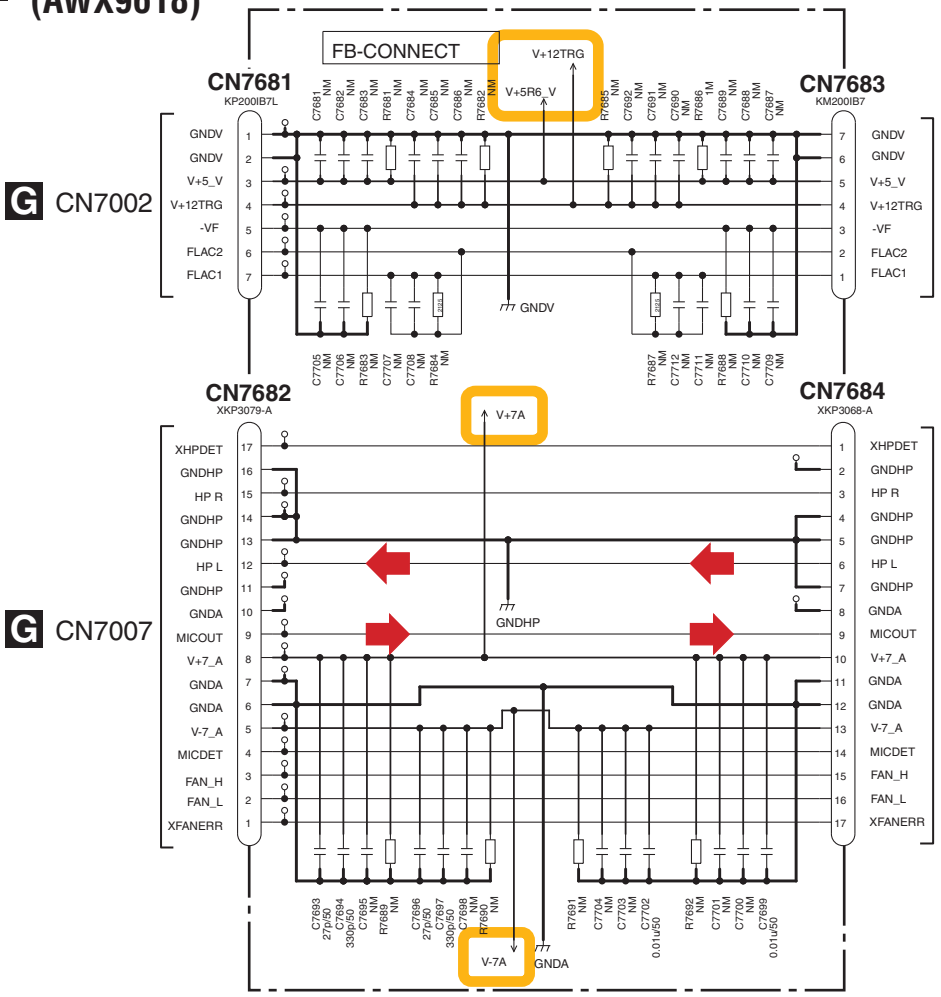
W CONNECT ASSY (AWX9619)

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



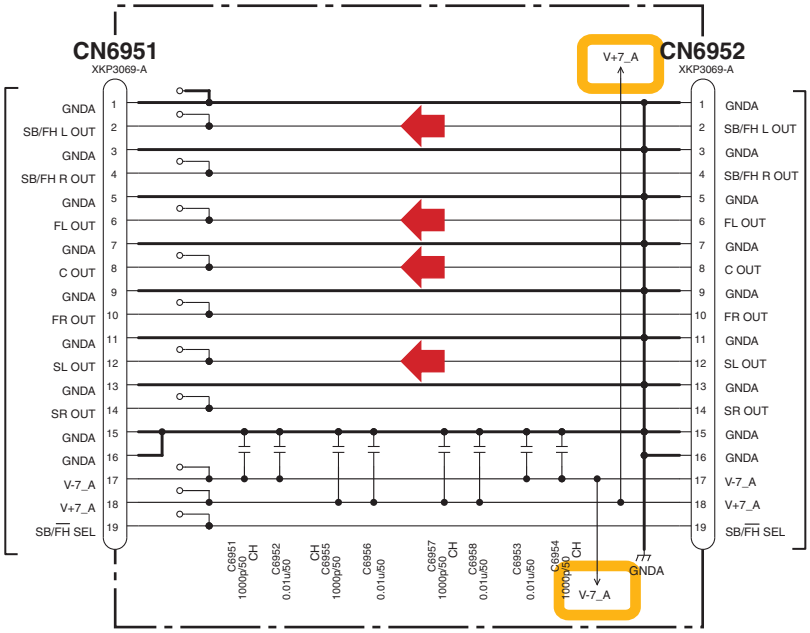
10.38 FB-CONNECT and PRE BRIDGE ASSYS

X FB-CONNECT ASSY (AWX9618)



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

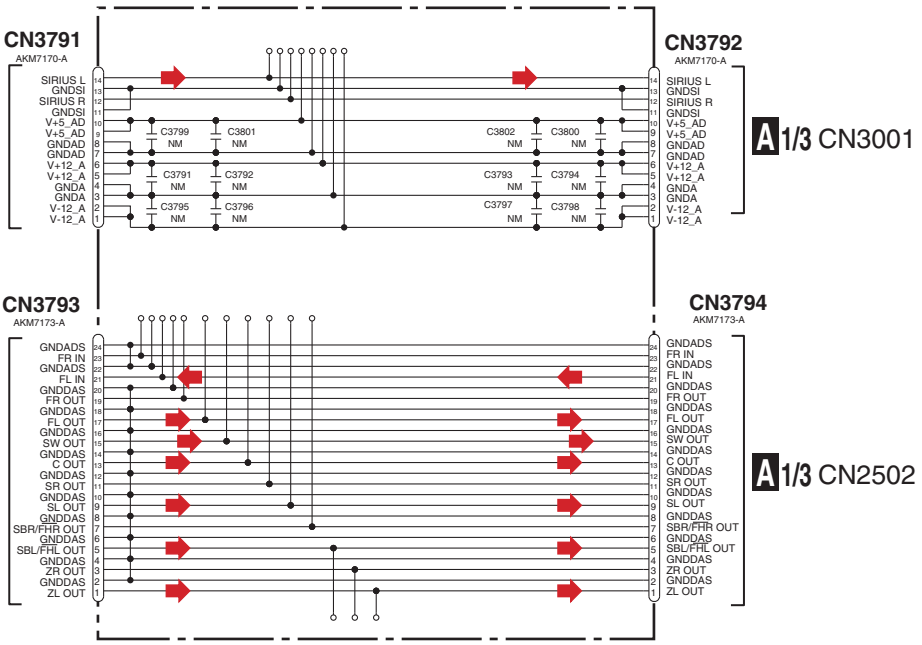
Y PRE BRIDGE ASSY (AWX9611)



: Audio Signal Route

10.39 A-DAC BRIDGE and D-AUDIO BRIDGE ASSYS

Z A-DAC BRIDGE ASSY (AWX9517)



B 2/2 CN2104 (SC-37: AWX9622)

C 2/2 CN2104 (SC-35, SC-1525-K: AWX9658)

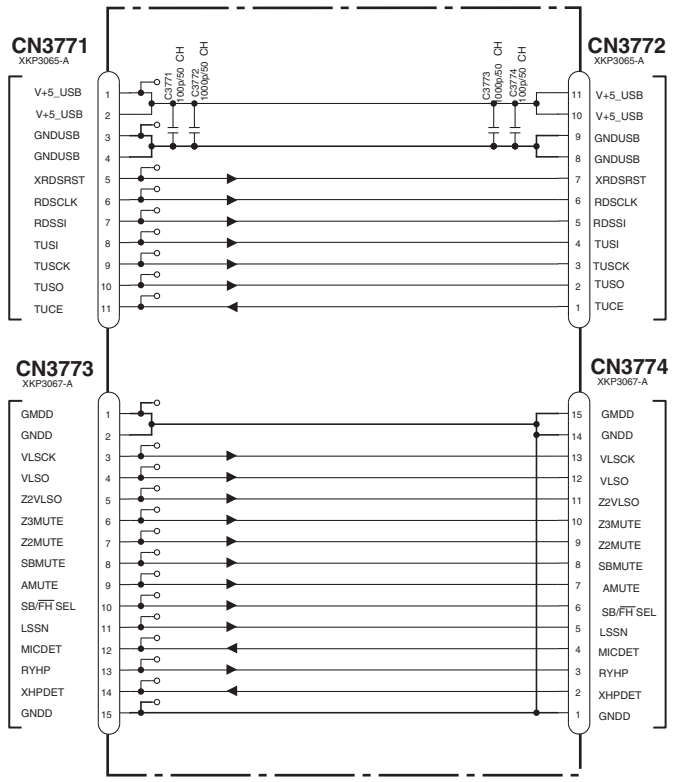
A 1/3 CN3001

B 2/2 CN2103 (SC-37: AWX9622)

C 2/2 CN2103 (SC-35, SC-1525-K: AWX9658)

A 1/3 CN2502

AA D-AUDIO BRIDGE ASSY (AWX9569)



F 8/10 CN9304

A 1/3 CN3901

F 8/10 CN9303

A 1/3 CN2861

: Audio Signal Route

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

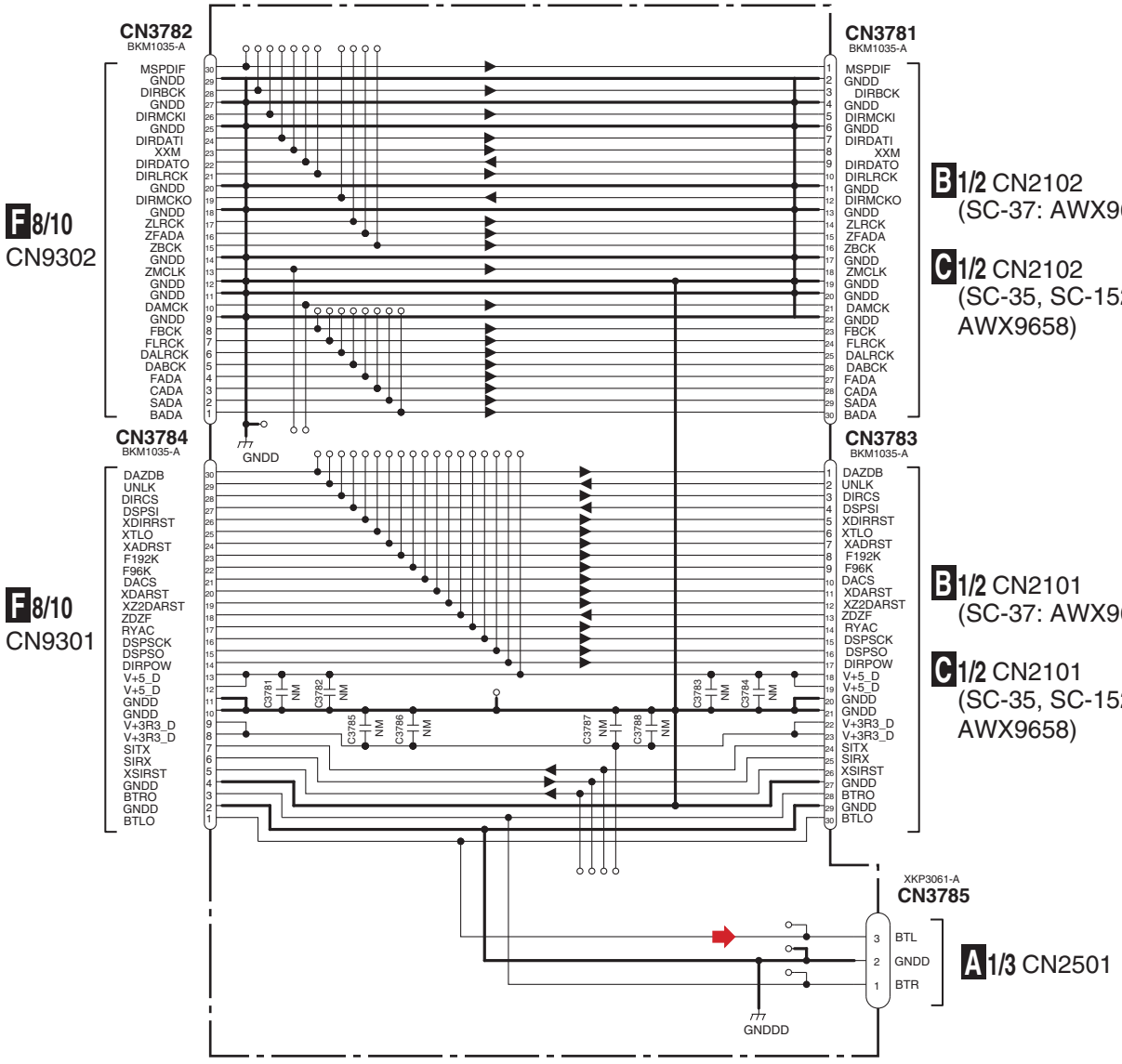
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CH : CCSRCH
NO MARKED : CKSRYB
3. NM: No Mount

Z AA

Z AA

10.40 D-DAC BRIDGE ASSY

AB D-DAC BRIDGE ASSY (AWX9570)



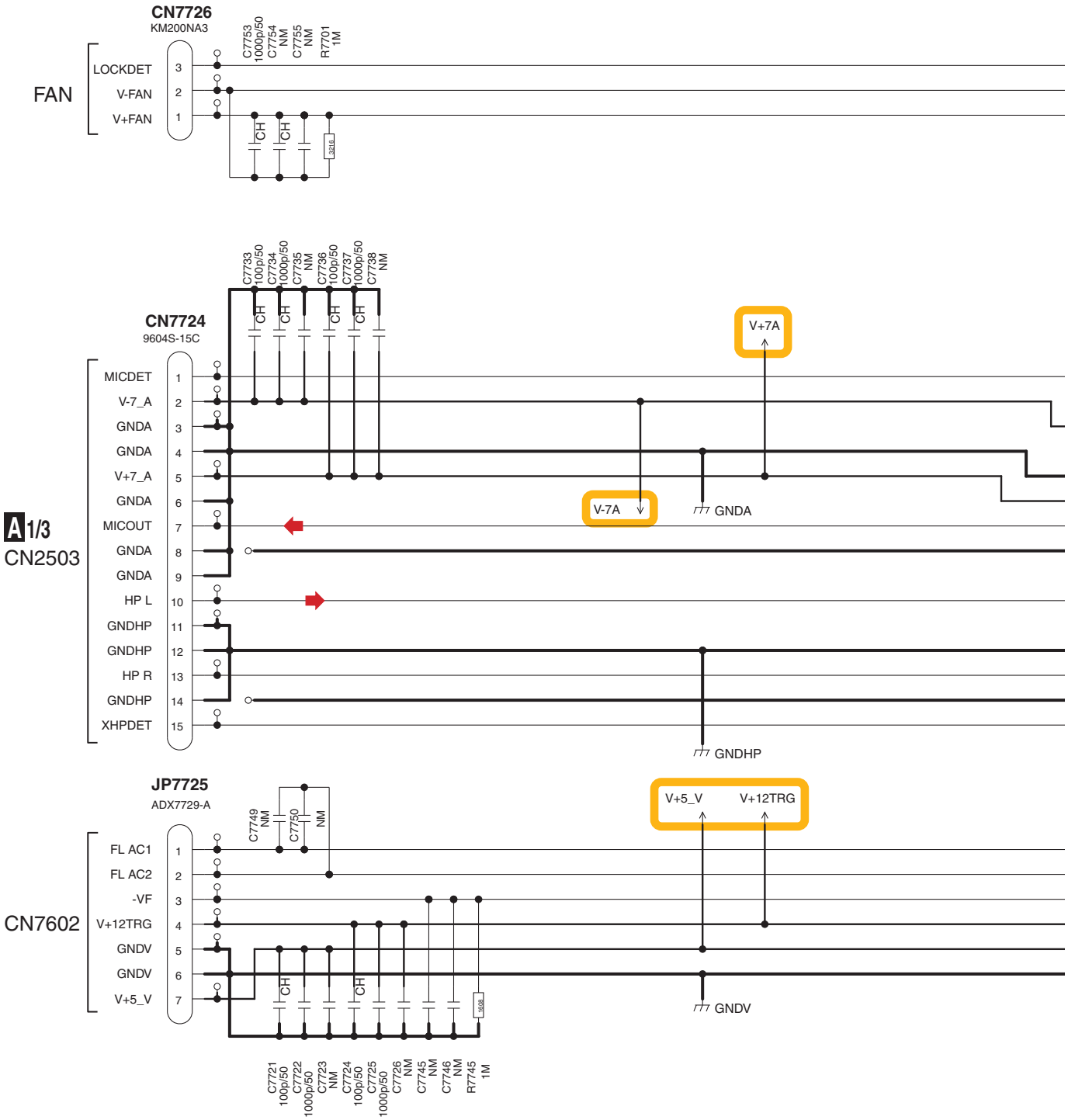
NOTE
1. RESISTORS
Unit: k-k Ω , M-M Ω or Ω unless otherwise noted.
Rated Power: 1/10w unless otherwise noted.
Toleranee: (J)5% unless otherwise noted.

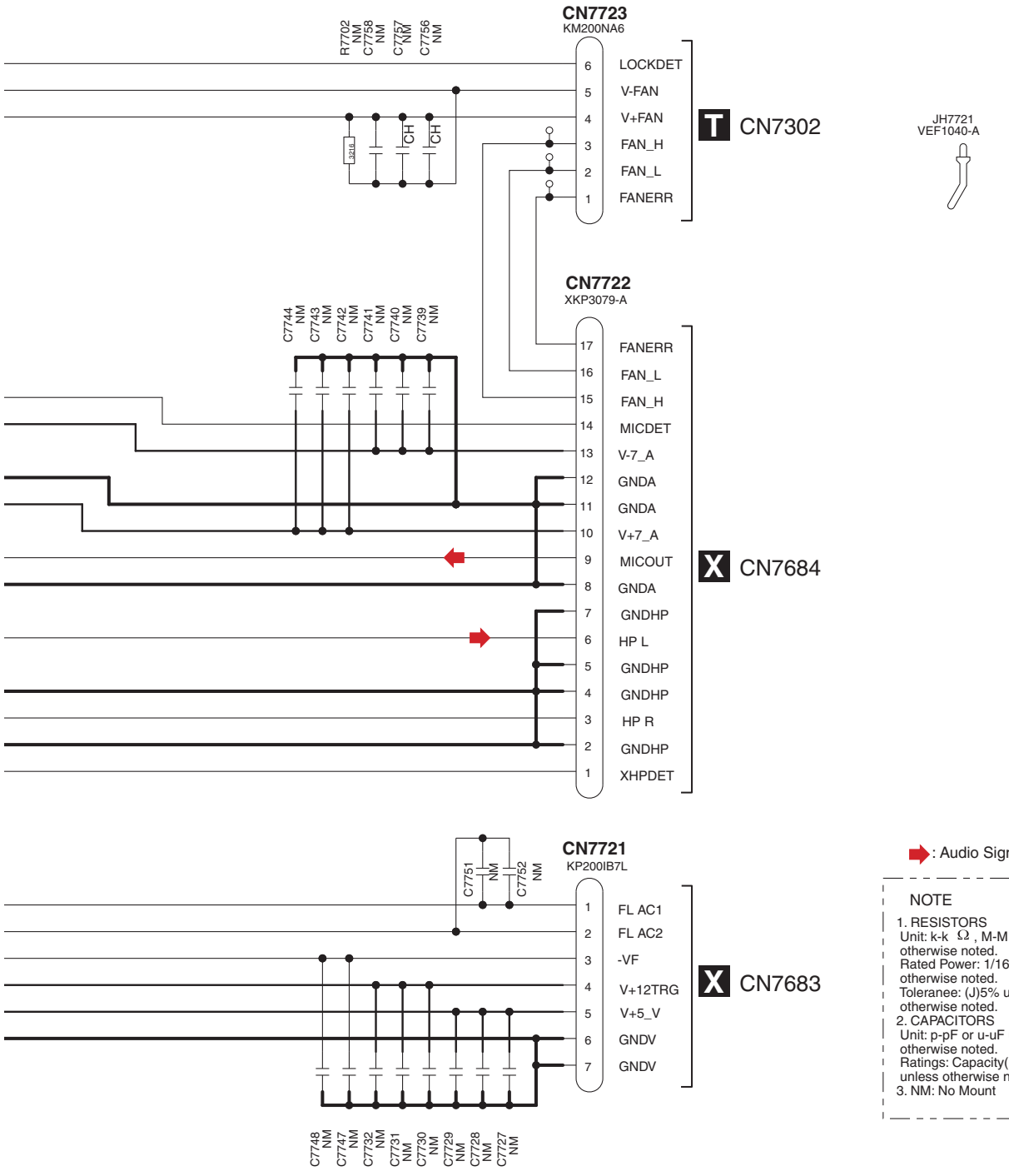
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CH : CCSRCH
NO MARKED : CKSRYB
3. NM: No Mount

: Audio Signal Route

10.41 FRONT BRIDGE ASSY

AC FRONT BRIDGE ASSY (AWX9613)





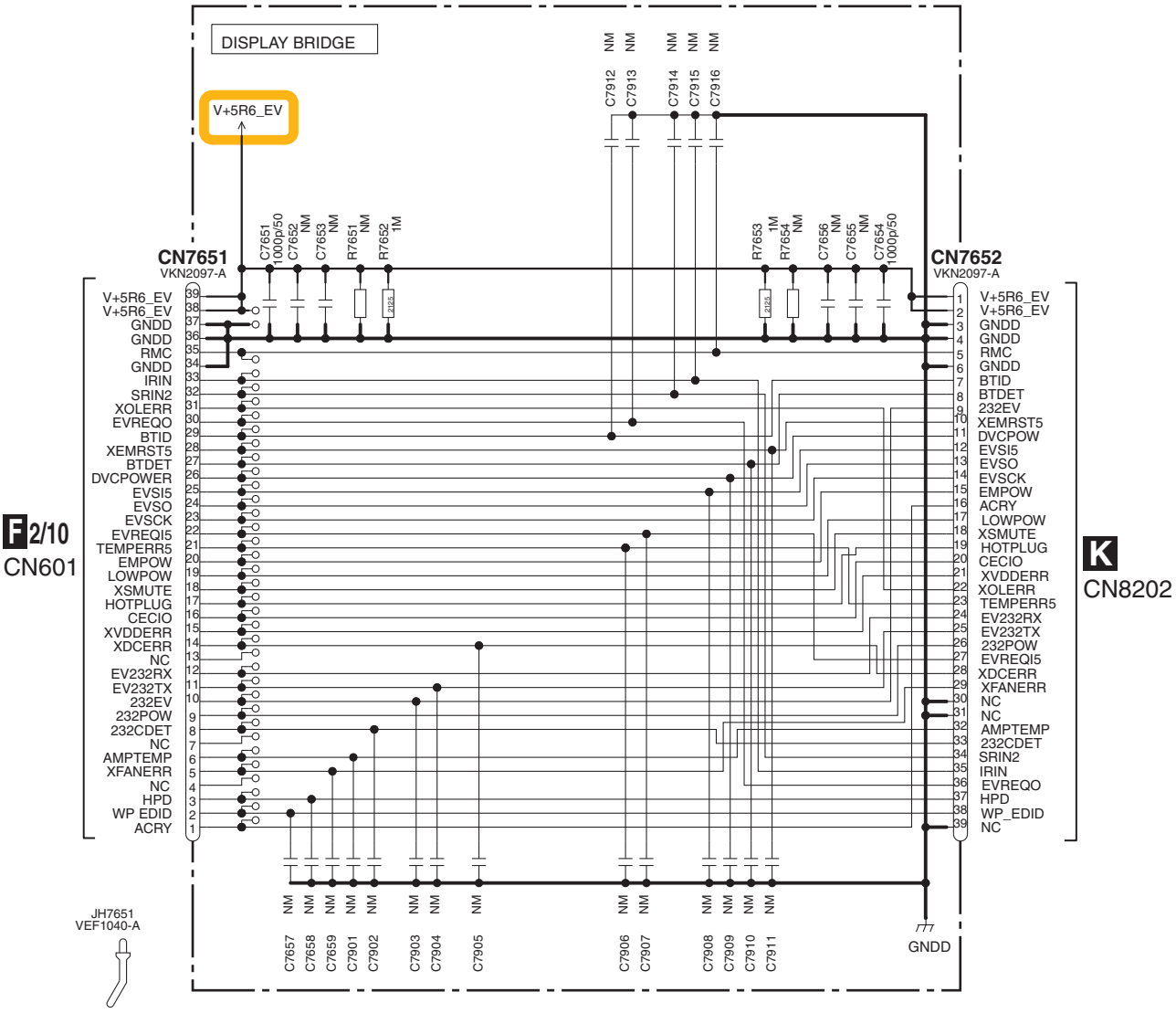
: Audio Signal Route

NOTE

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

10.42 DISPLAY BRIDGE ASSY

AD DISPLAY BRIDGE ASSY (AWX9614)

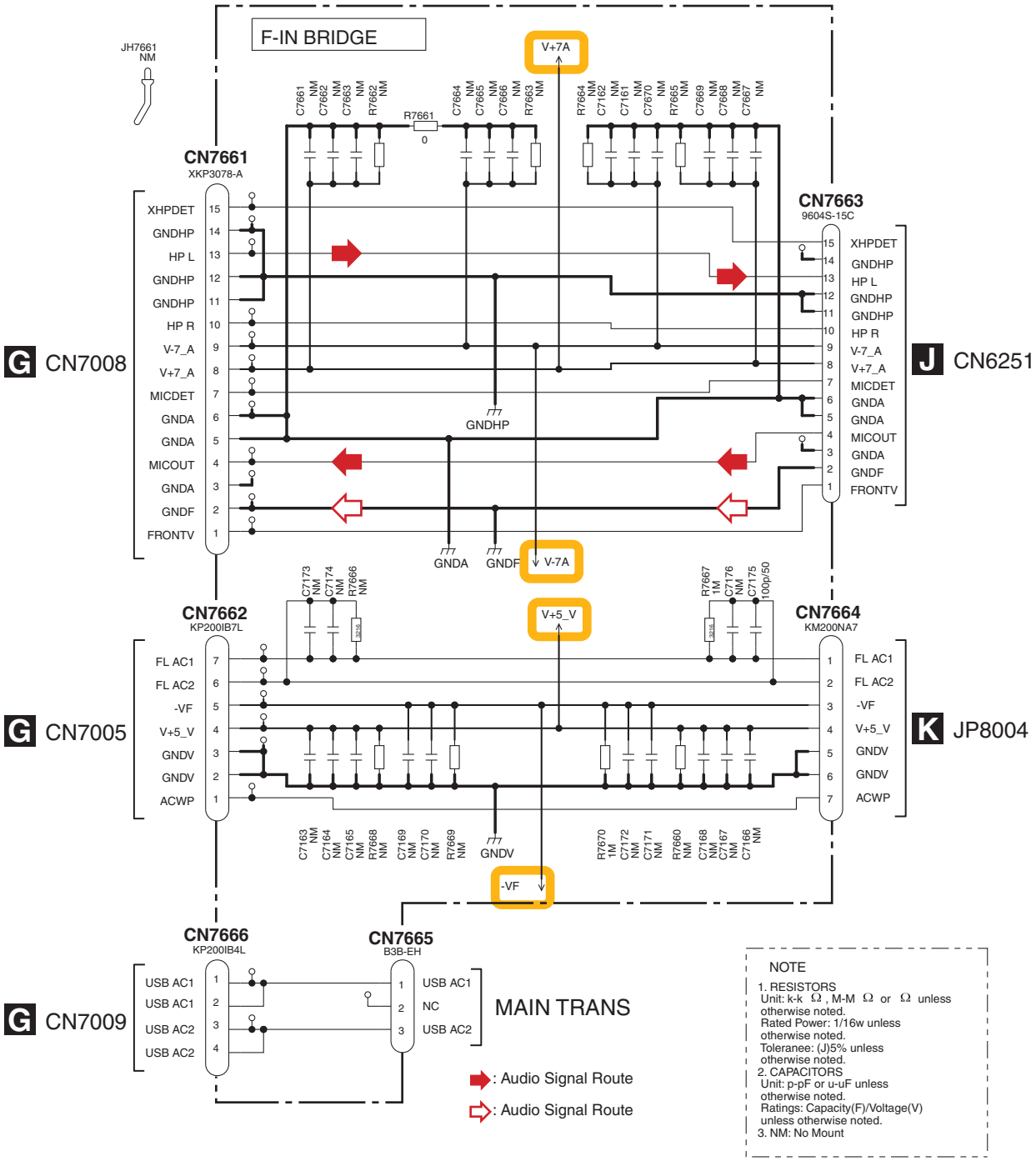


NOTE

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

10.43 F-IN BRIDGE ASSY

AE F-IN BRIDGE ASSY (AWX9615)

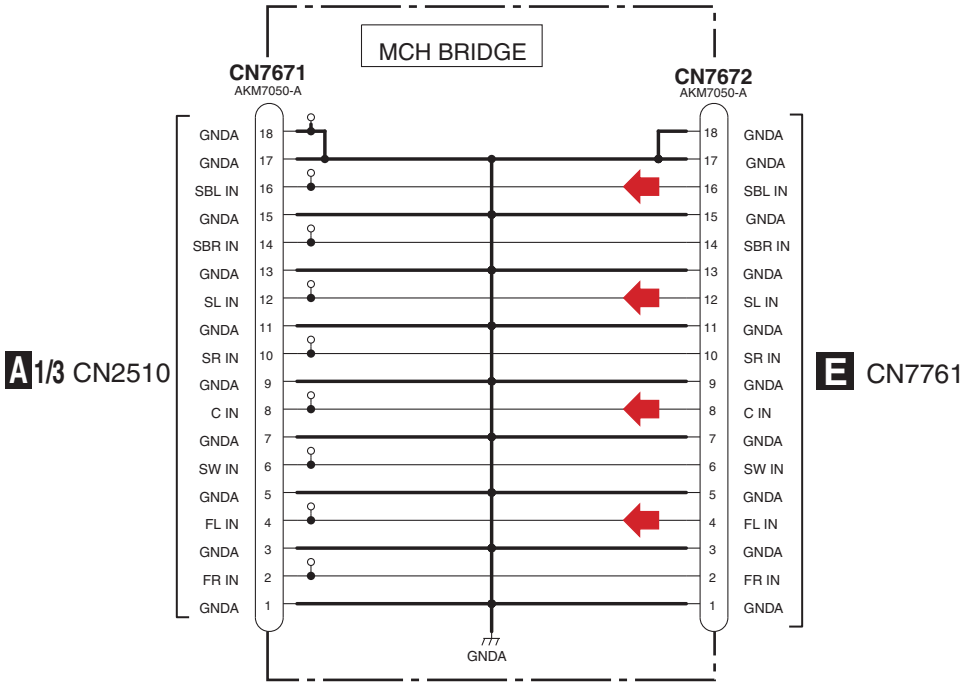


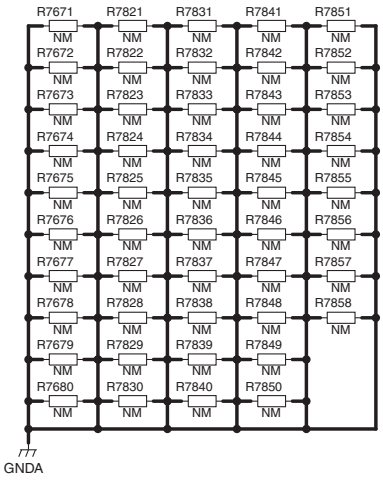
NOTE

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

10.44 MCH BRIDGE and FFC GUARD ASSYS

AF MCH BRIDGE ASSY (AWX9647)

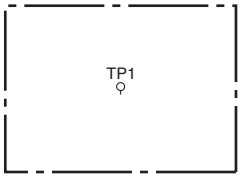




: Audio Signal Route

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

AG FFC GUARD ASSY (AWX9641)



A

B

C

D

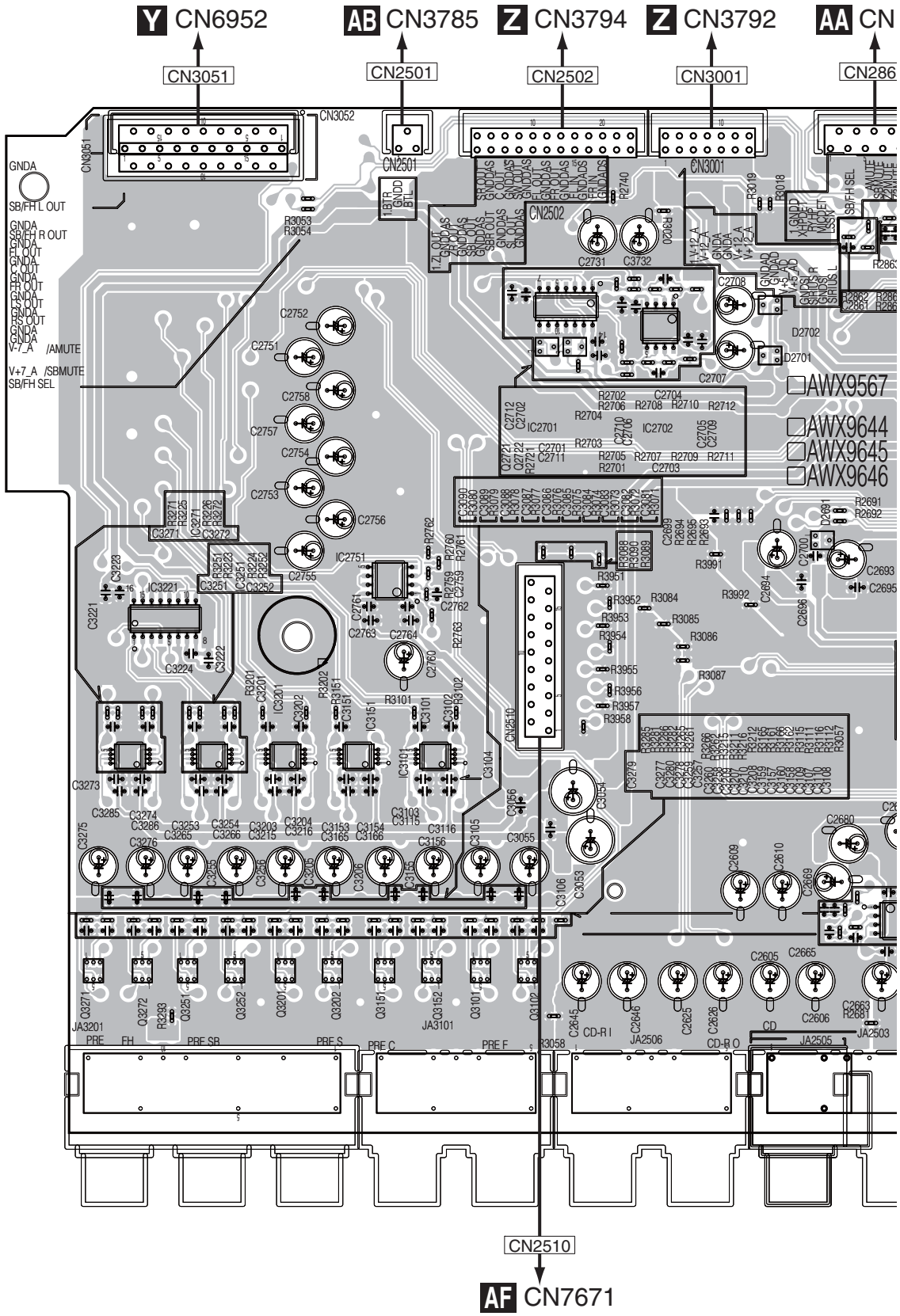
E

F

11. PCB CONNECTION DIAGRAM
11.1 AUDIO ASSY

SIDE A

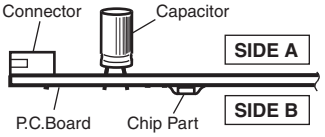
A AUDIO ASSY

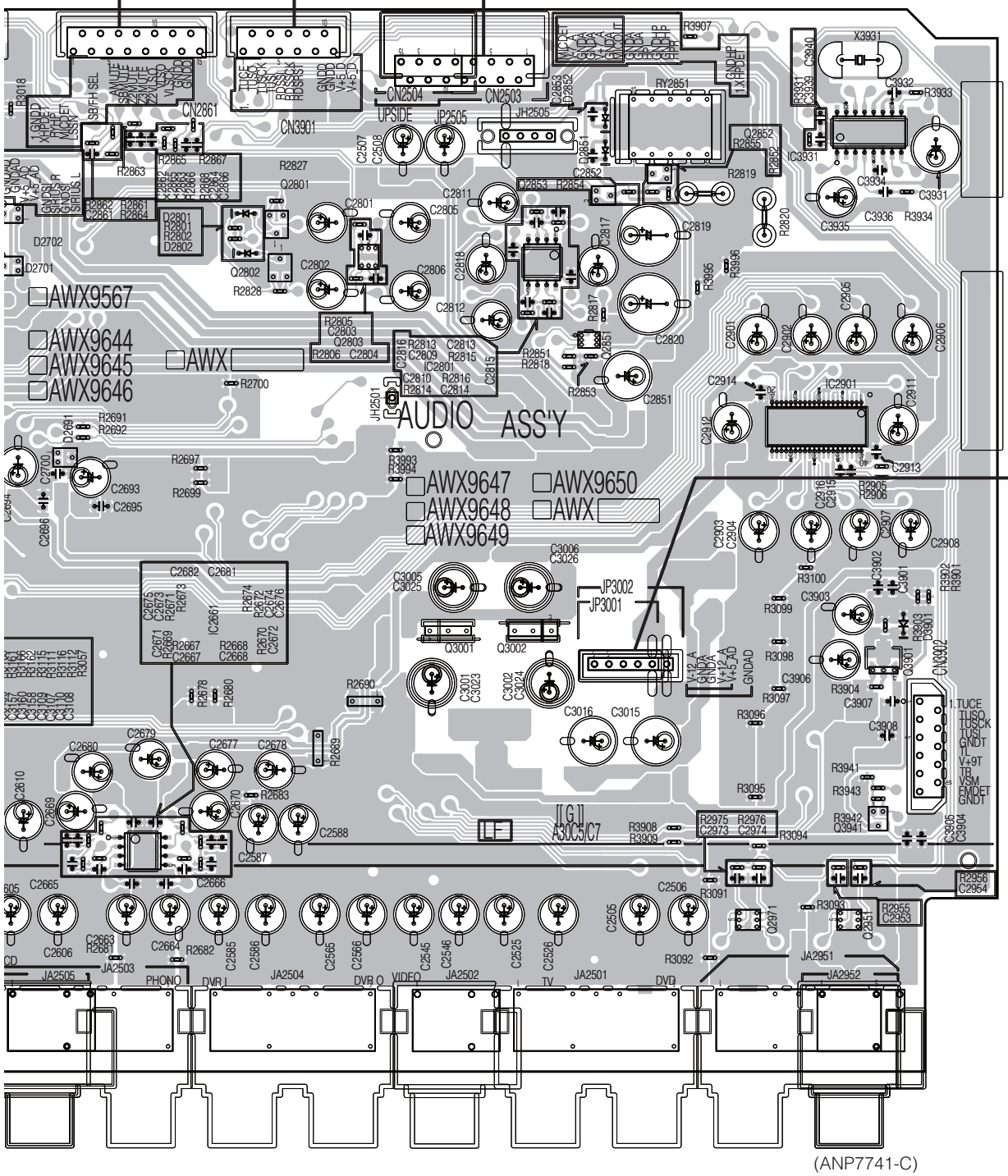


NOTE FOR PCB DIAGRAMS :

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

2. View point of PCB diagrams.

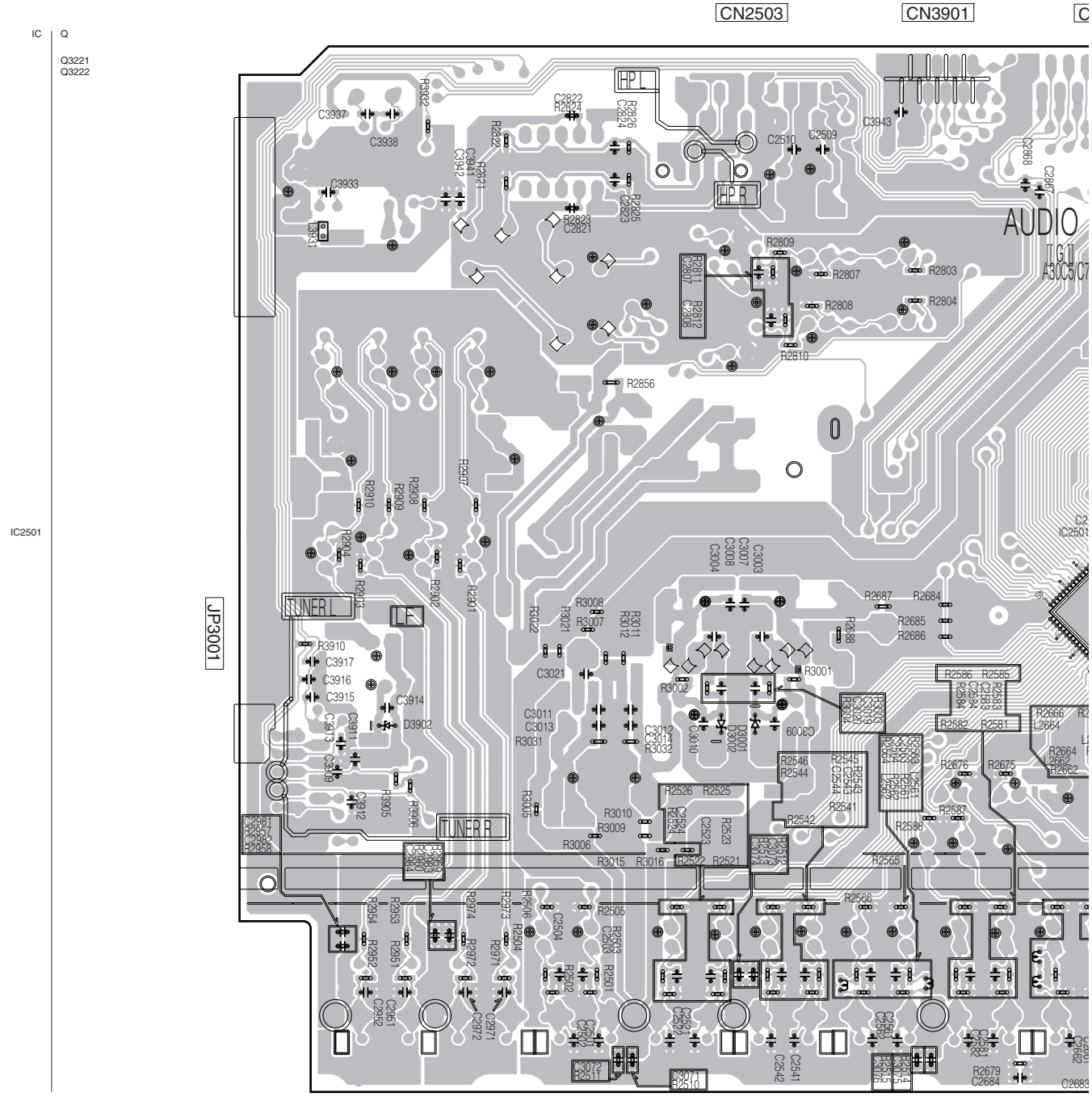




(ANP7741-C)

SIDE B

A AUDIO ASSY



SIDE B

A

B

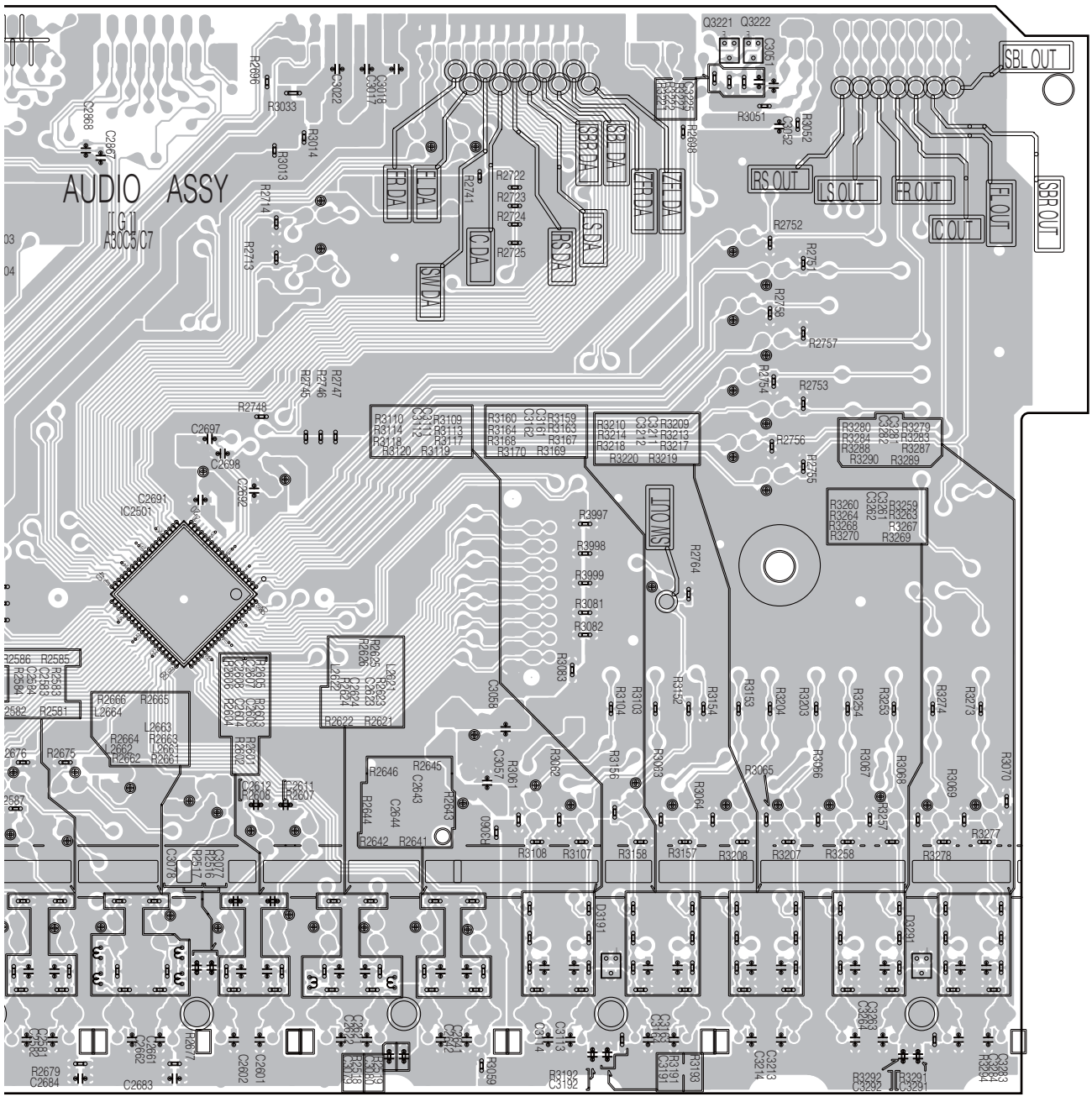
C

D

E

F

901 CN2861 CN3001 CN2502 CN2501 CN3051



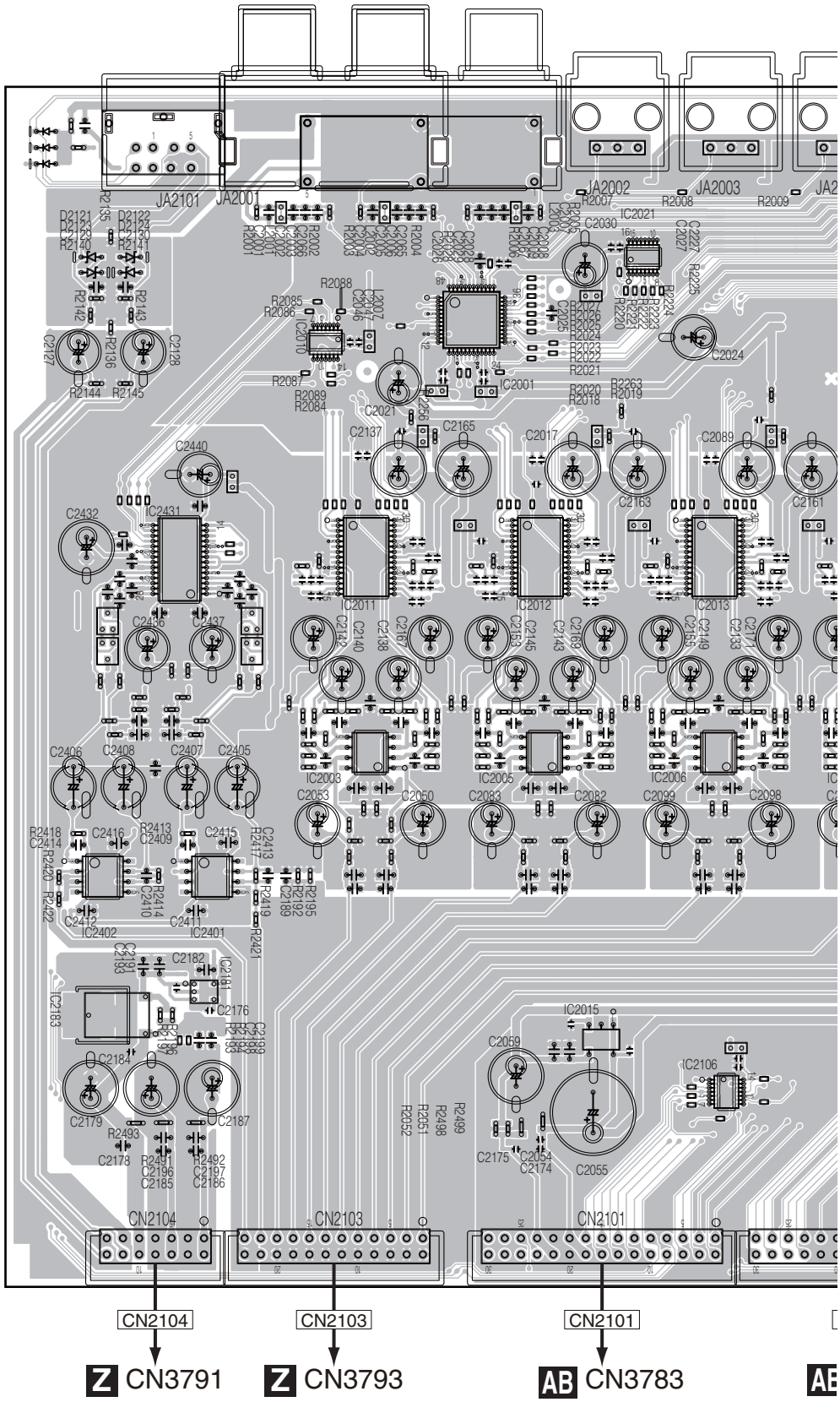
(ANP7741-C)

CN2510

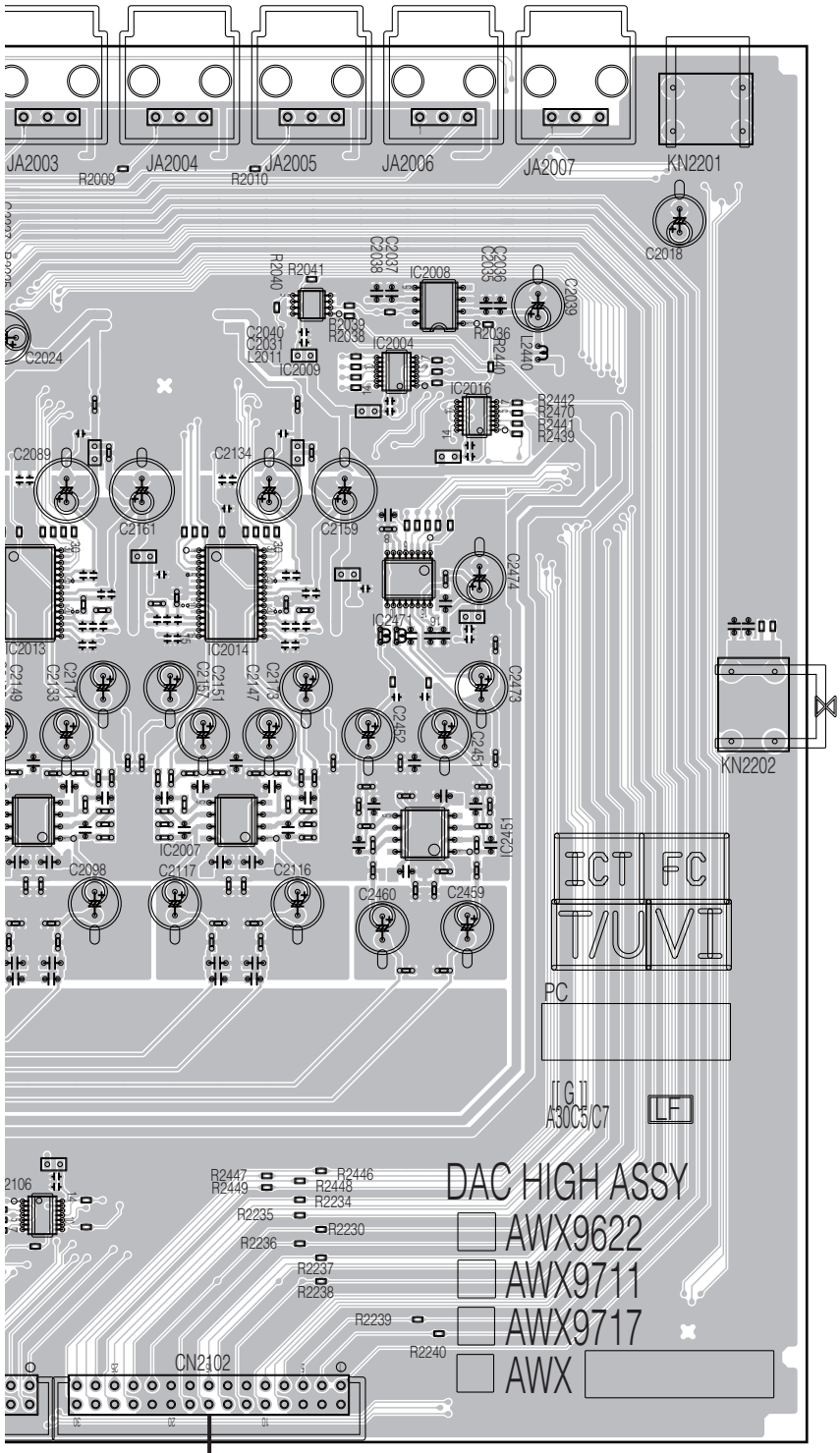
11.2 DAC HIGH ASSY (SC-37)

SIDE A

B DAC HIGH ASSY



SIDE A



(ANP7756-B)

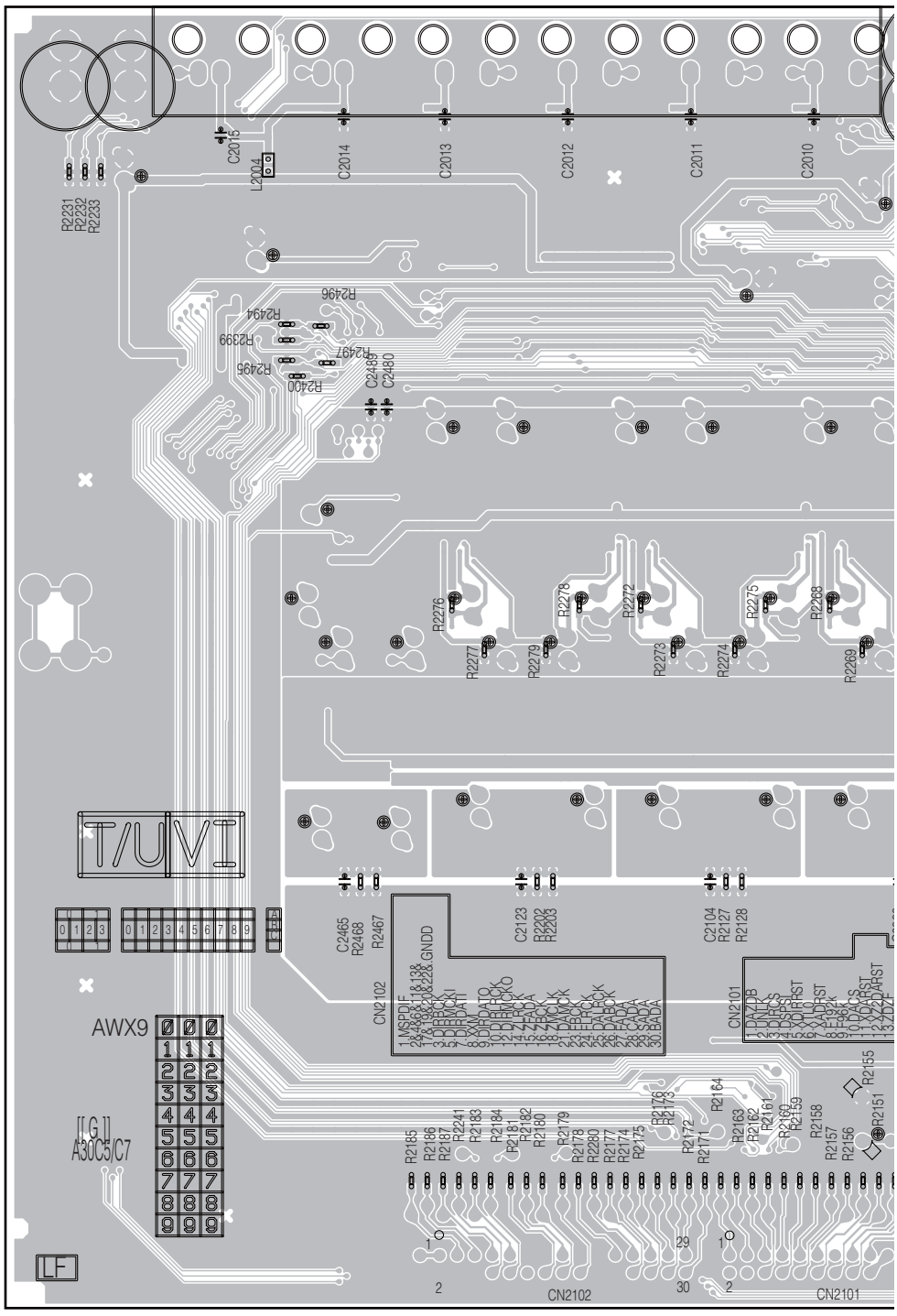
IC Q

IC2021
IC2008
IC2010
IC2009
IC2001
IC2004
IC2016
IC2431
IC2011
IC2012
IC2013
IC2014
IC2471
IC2003
IC2005
IC2006
IC2007
IC2451
IC2402
IC2401
IC2181
IC2183
IC2015
IC2106

A B C D E F

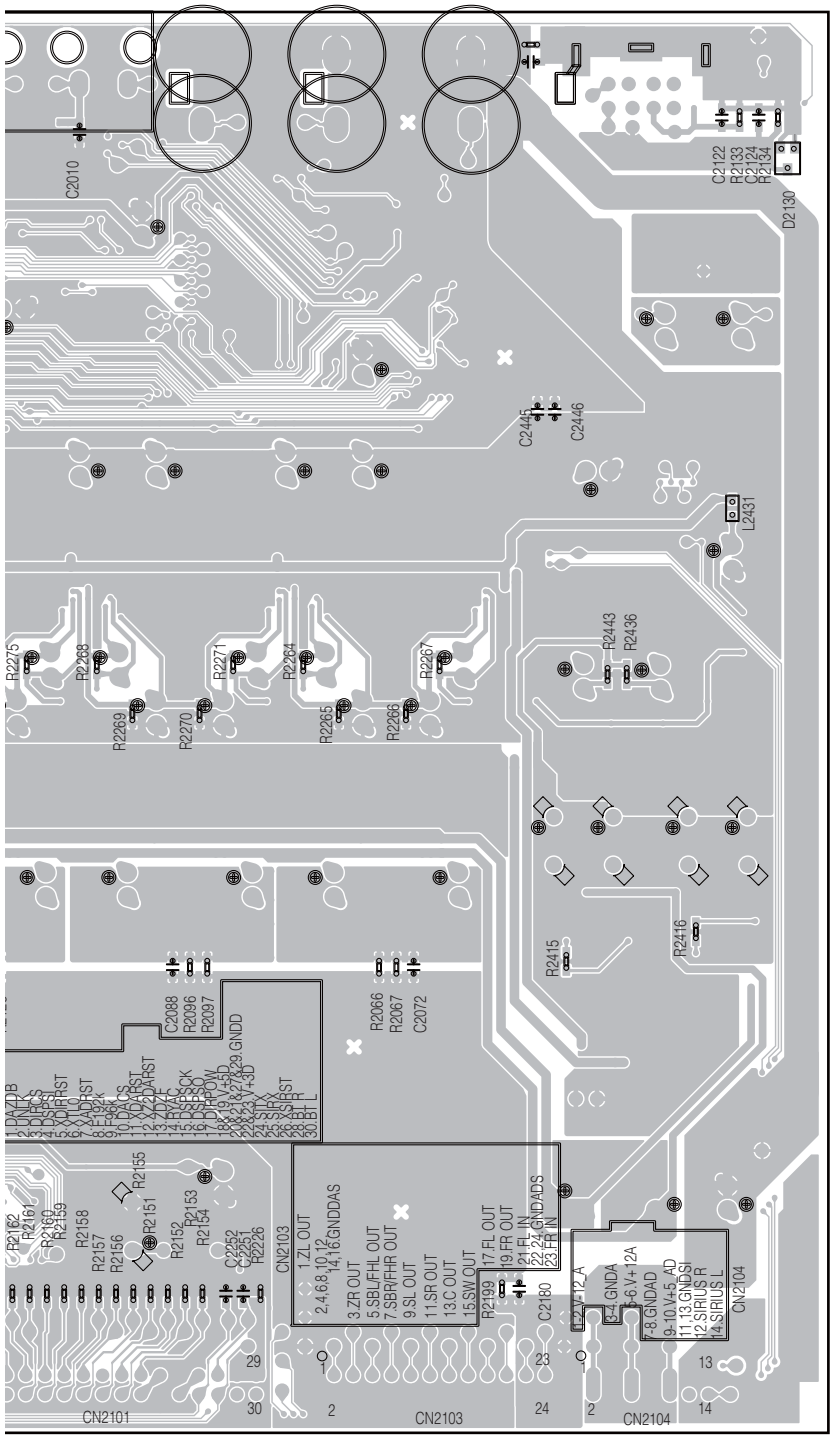
SIDE B

B DAC HIGH ASSY



CN2102 CN2101

SIDE B



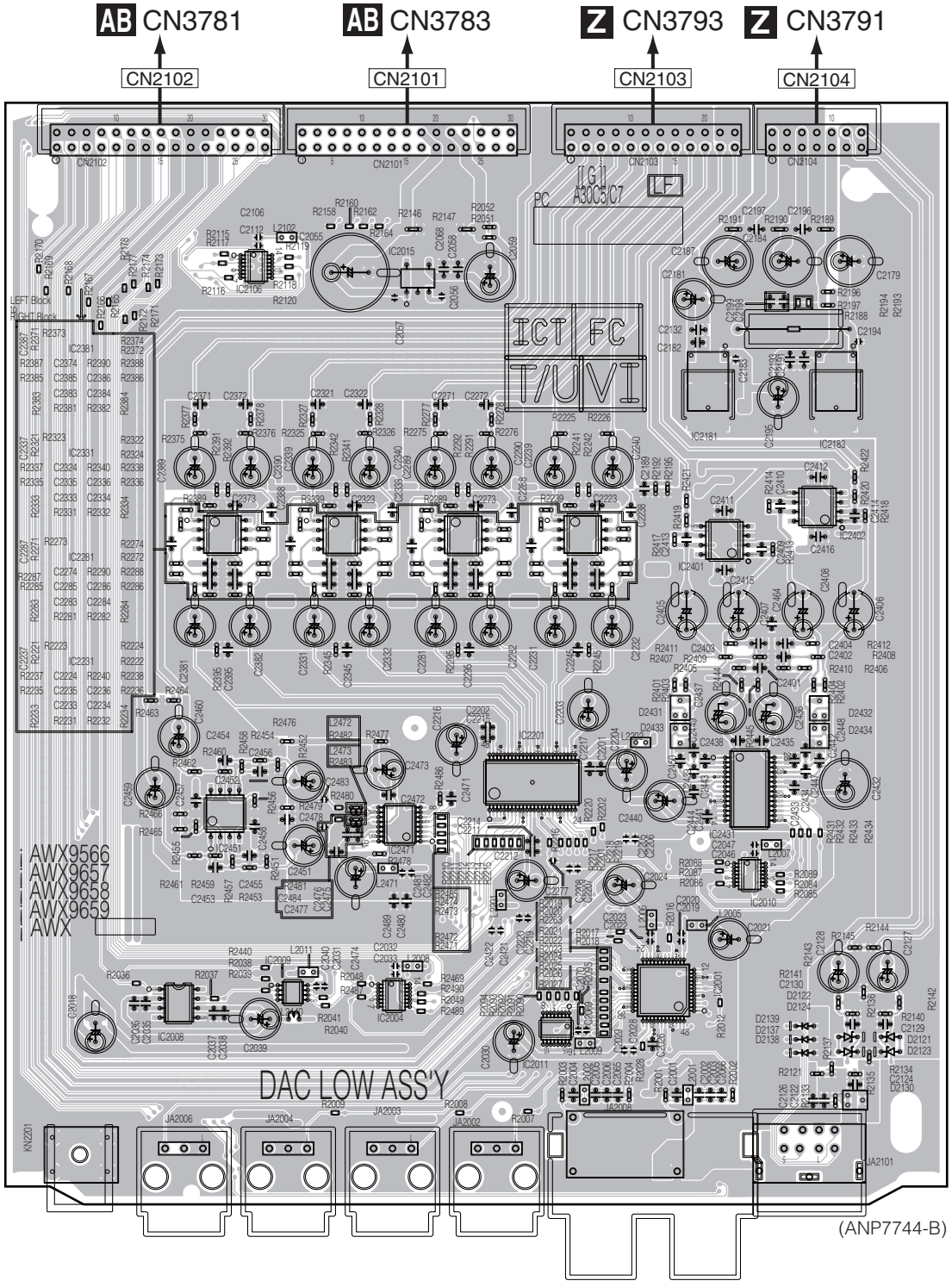
(ANP7756-B)

11.3 DAC LOW ASSY (SC-35, SC-1525-K)

SIDE A

SIDE A

C DAC LOW ASSY

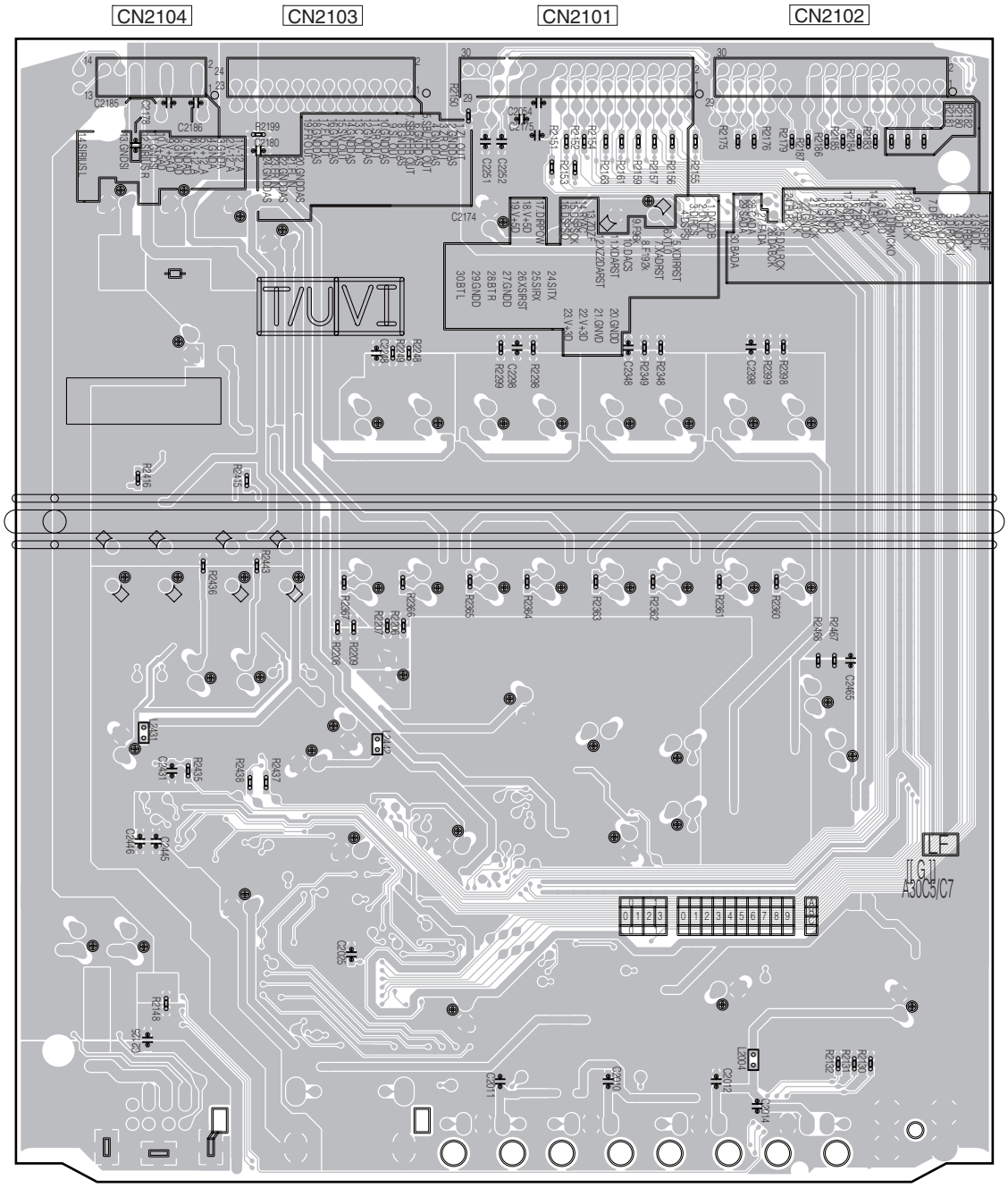


C

SIDE B

SIDE B

C DAC LOW ASSY



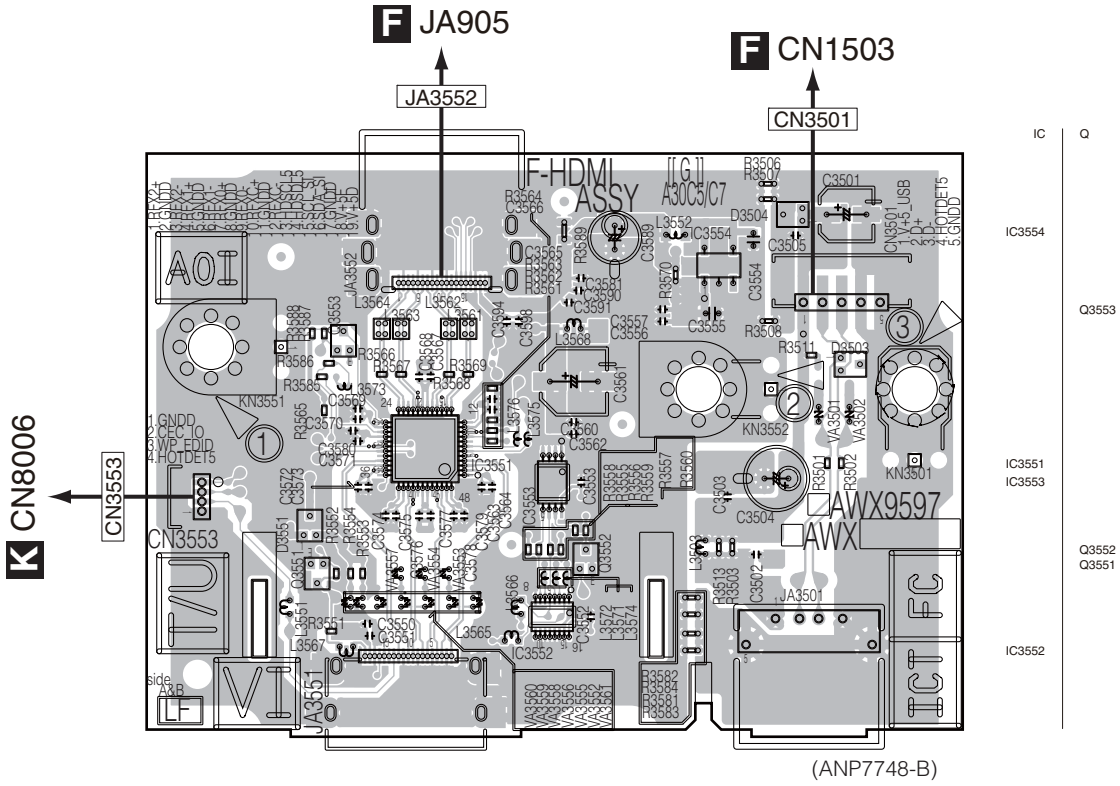
(ANP7744-B)

11.4 FRONT HDMI and MULTI CH IN ASSYS

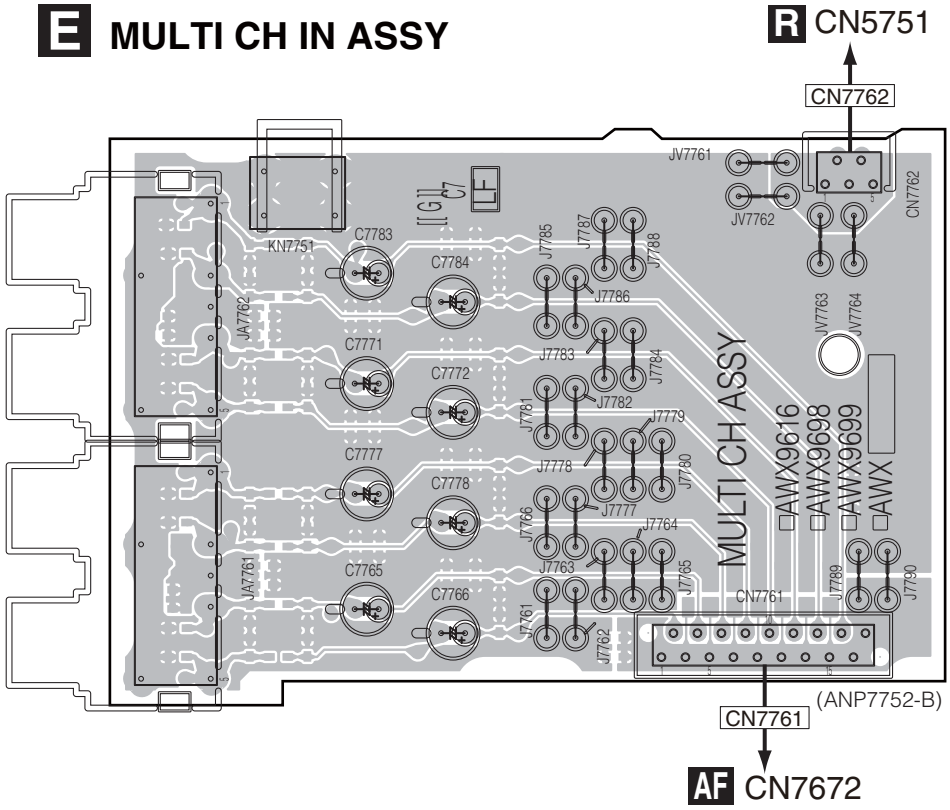
SIDE A

SIDE A

D FRONT HDMI ASSY



E MULTI CH IN ASSY



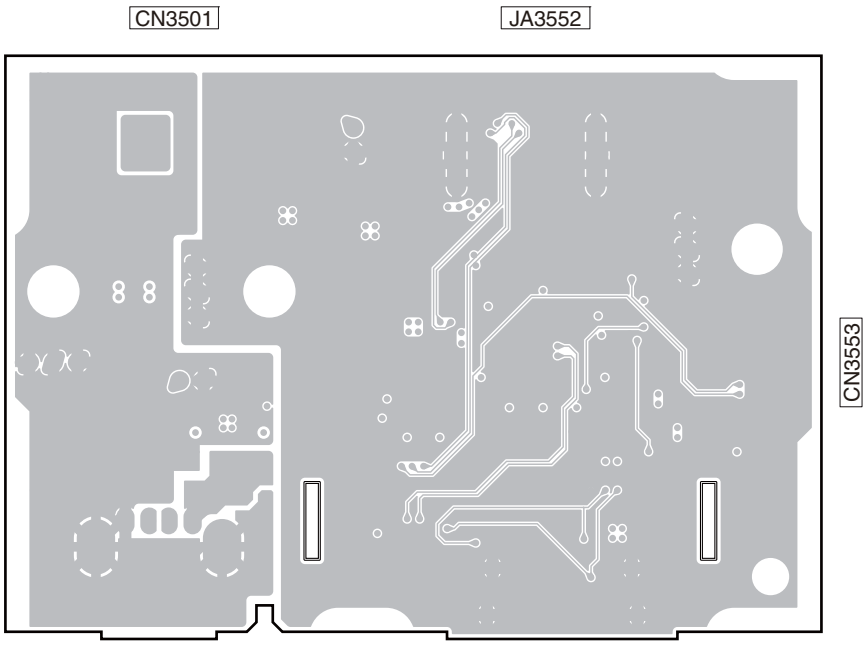
D E

D E

SIDE B

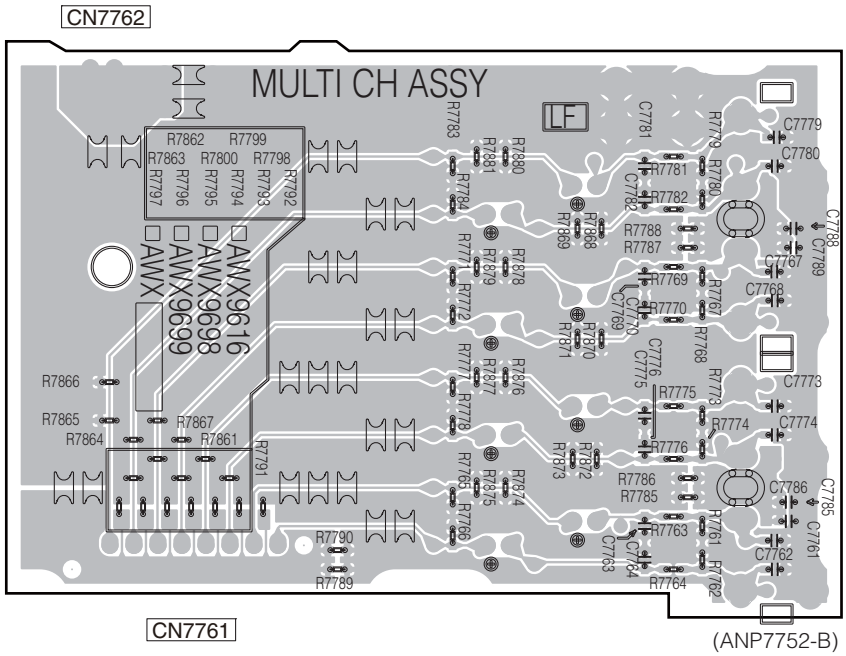
SIDE B

D FRONT HDMI ASSY



(ANP7748-B)

E MULTI CH IN ASSY

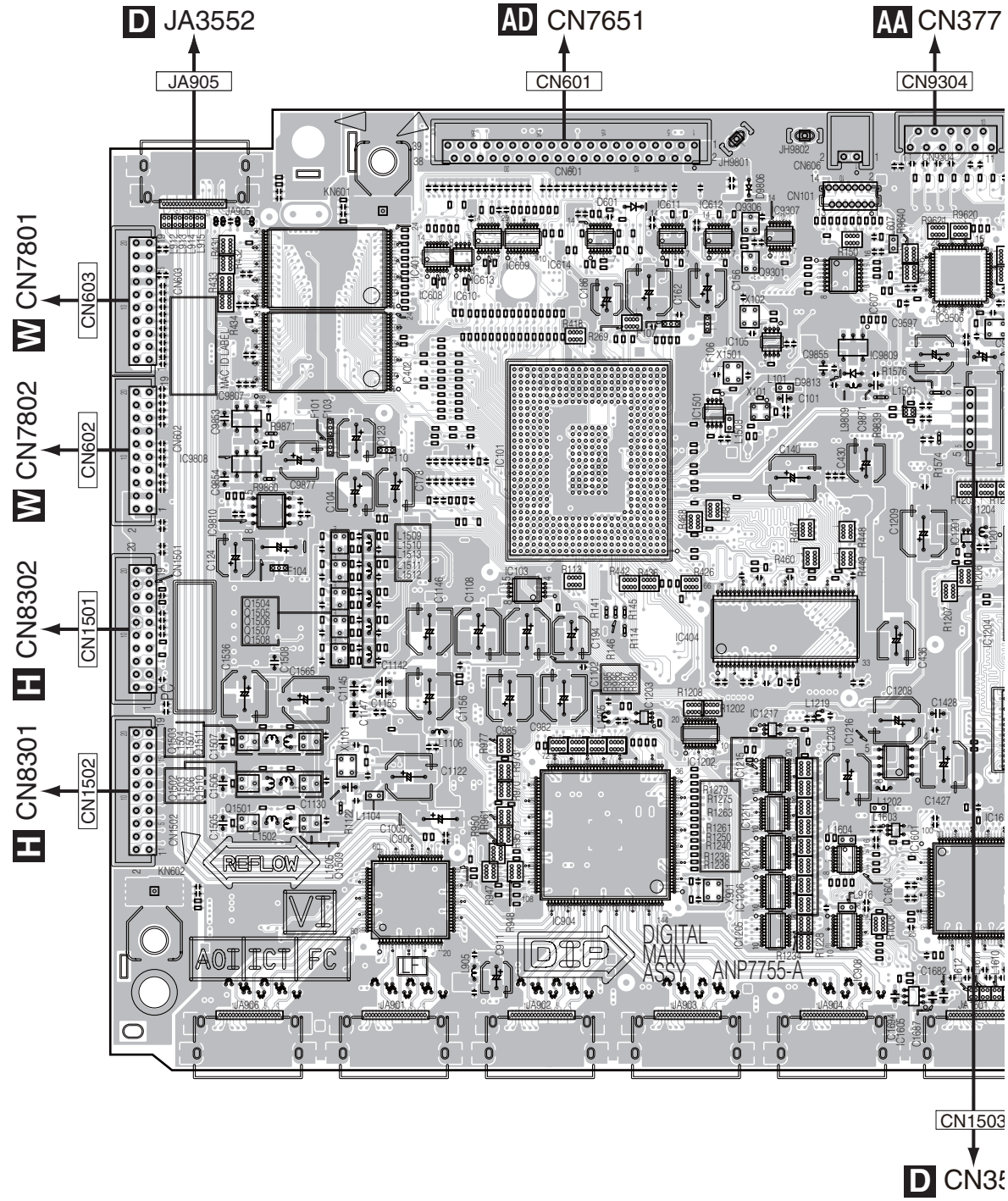


(ANP7752-B)

11.5 DIGITAL MAIN ASSY

SIDE A

F DIGITAL MAIN ASSY

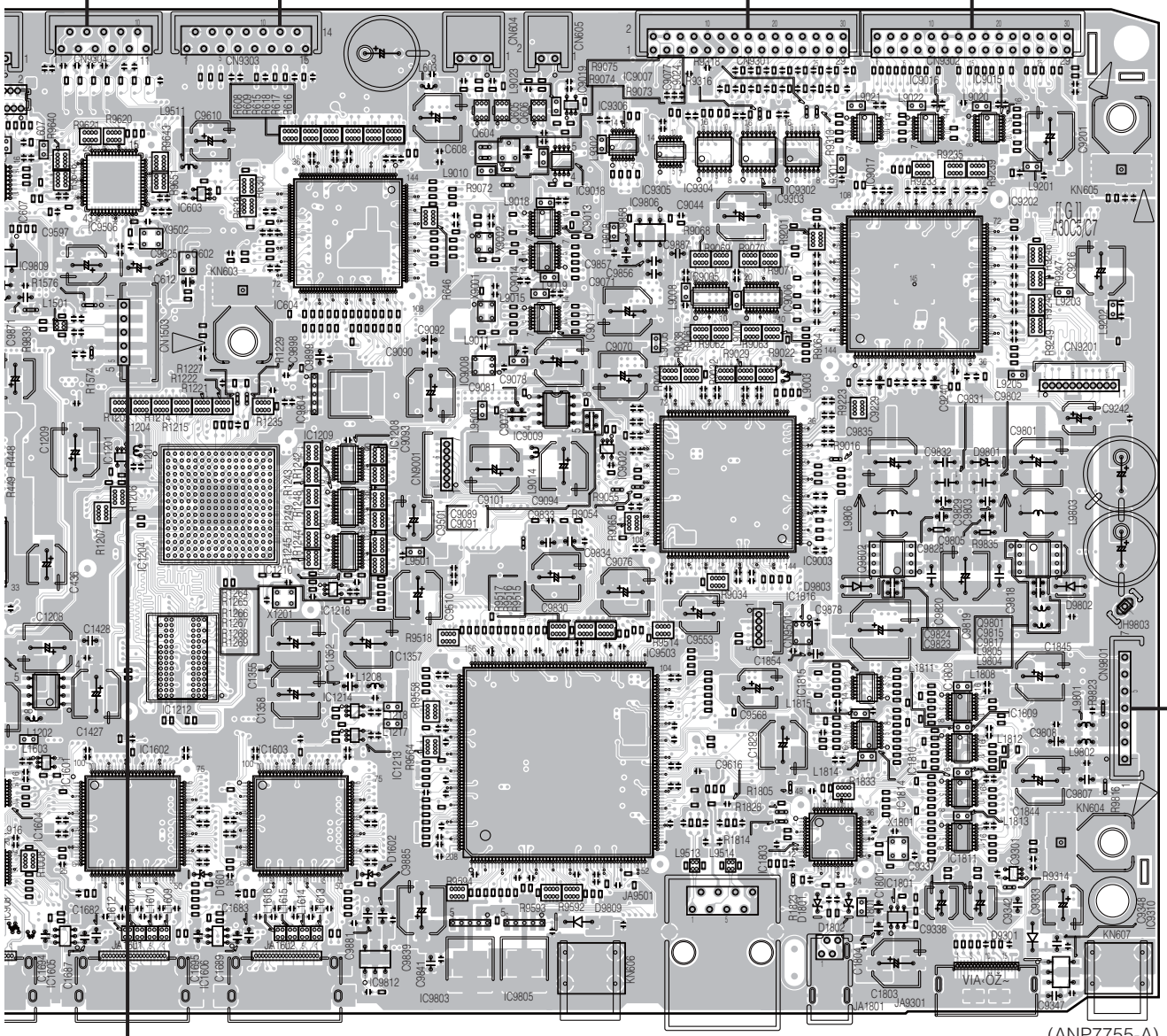


IC	Q
IC9019	Q605
IC611 IC9016	Q606
IC612 IC9015	
IC9307 IC9306	Q604
IC614	
	Q9306
IC9007	
IC9017	Q9301
IC9303	
IC609 IC9202	
IC613	
IC401	
IC608	
IC610	
IC607 IC9018	
IC9506 IC603	
IC105 IC9305	
IC9809 IC9304	
IC402 IC9302	
IC1501	
IC101	Q602
IC9005	
IC9807 IC9014	
IC9808	
IC1201 IC9806	
IC9013	
IC9006	
IC604	
IC9011	
IC9008	
IC9810 IC9804	
IC103 IC1503	
IC9009	
IC1208	
IC9002	
IC9003	
IC1204	
	Q1504
IC1203	Q1505
IC1217	Q1506
	Q1507
	Q1508
IC404 IC1210	
IC1218	Q9802
IC1216	Q9801
IC1202	
IC1815	Q1503
IC1816	Q1511
IC9503	Q1502
IC1214	Q1510
IC1215	
IC1212 IC1213	
IC1211 IC1808	
IC1809	
IC1603	
IC1602 IC1810	
IC1601 IC9301	
IC1207	
IC906	
IC1604	
IC1206	
IC904	
	Q1501
IC1814	
IC1811	Q1509
IC1803	
IC1801	
IC9310	
IC1205	
IC908	
IC1605	
IC1606	
IC9812	
IC9803	
IC9805	

SIDE A

AA CN3771 AA CN3773 AB CN3784 AB CN3782

CN9304 CN9303 CN9301 CN9302



(ANP7755-A)

CN9801 Q JP51

CN1503

D CN3501

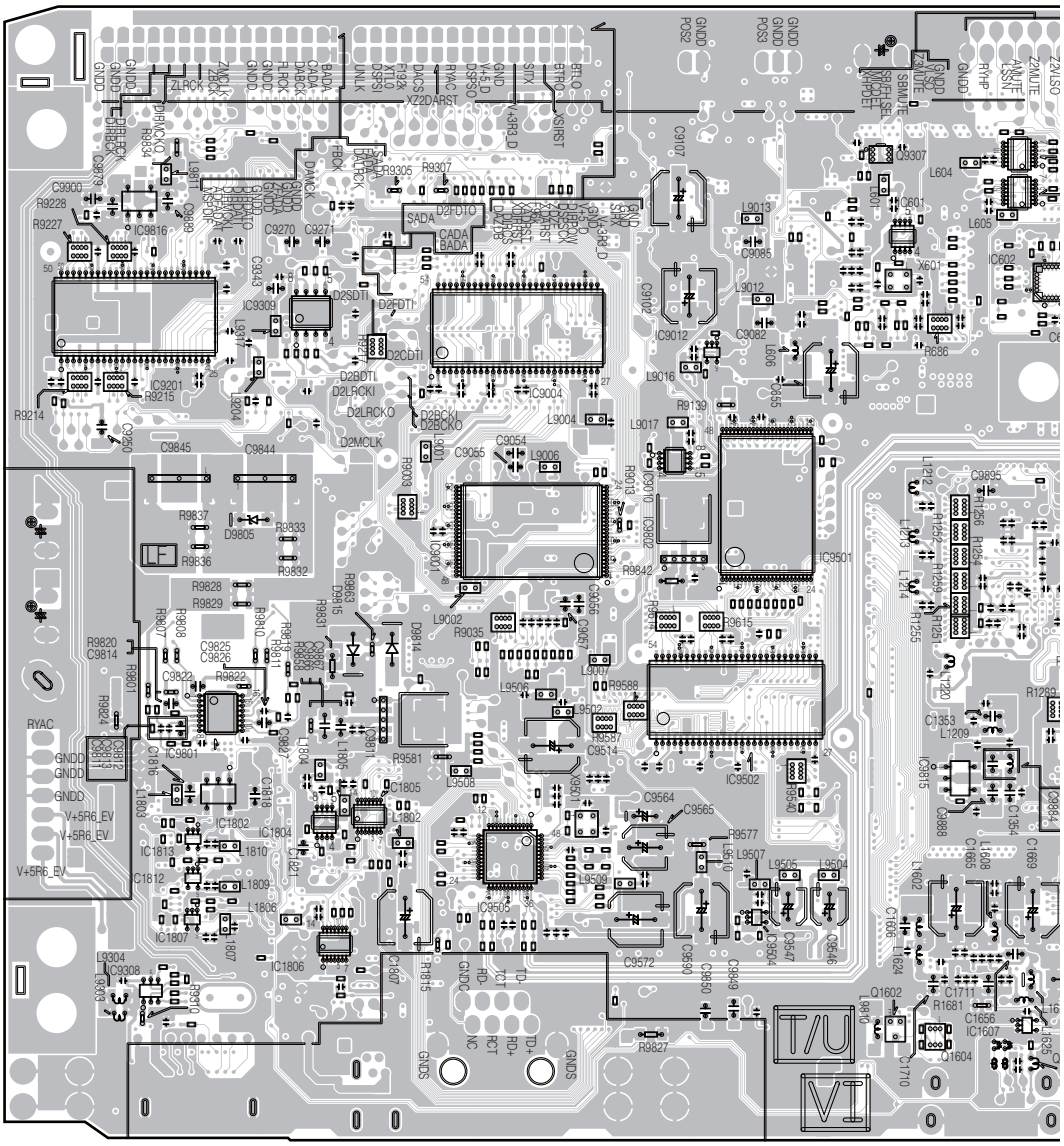
SIDE B

F DIGITAL MAIN ASSY

IC	Q
	Q9304
	Q9305
IC605	Q9307
	Q603
	Q608
IC606	Q9303
IC601	Q9302
IC9816	
	Q607
IC602	
	Q601
IC9309	
IC9012	
IC9201	
IC9004 IC1502	
IC102	
	Q102
IC9010	
	Q101
IC9802	
IC9501 IC403	
IC9001	
	Q1101
IC104	
IC9811	
IC9801	
IC9502 IC1102	
IC1805	
IC9815	
	Q904
IC1802	Q902
IC1804	
IC1813	
IC1812 IC901	
IC9505 IC905	
IC909	
IC9504	
IC1806	Q901
IC1807	Q903
	Q1602
	Q1603
IC1607	
IC9308	Q1604
IC9813	Q1601
IC903	
IC907	

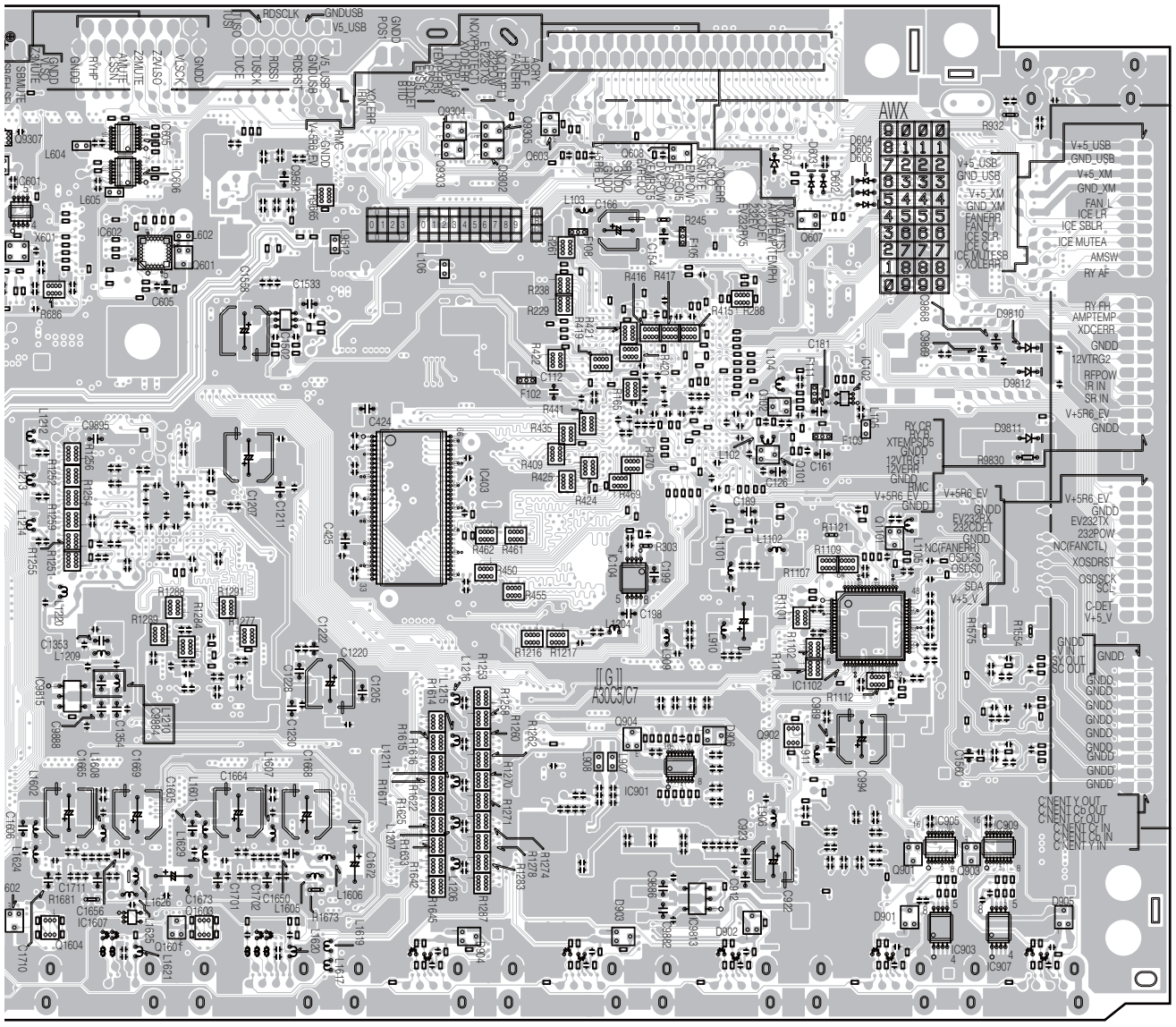
CN9302 CN9301 CN9303

CN9801



SIDE B

CN9303 CN9304 CN601 JA905



CN603 CN602 CN1501 CN1502

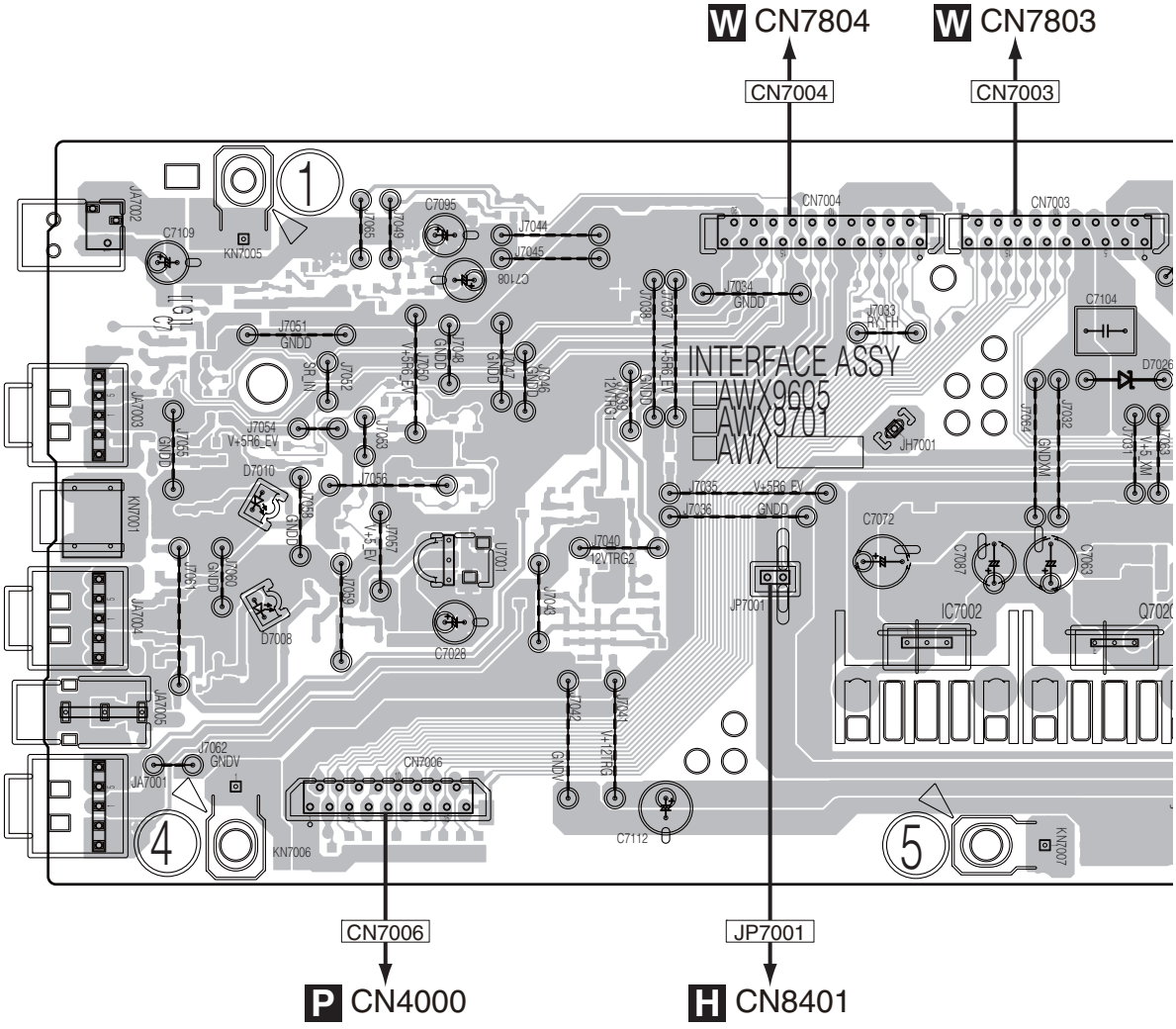
CN1503

(ANP7755-A)

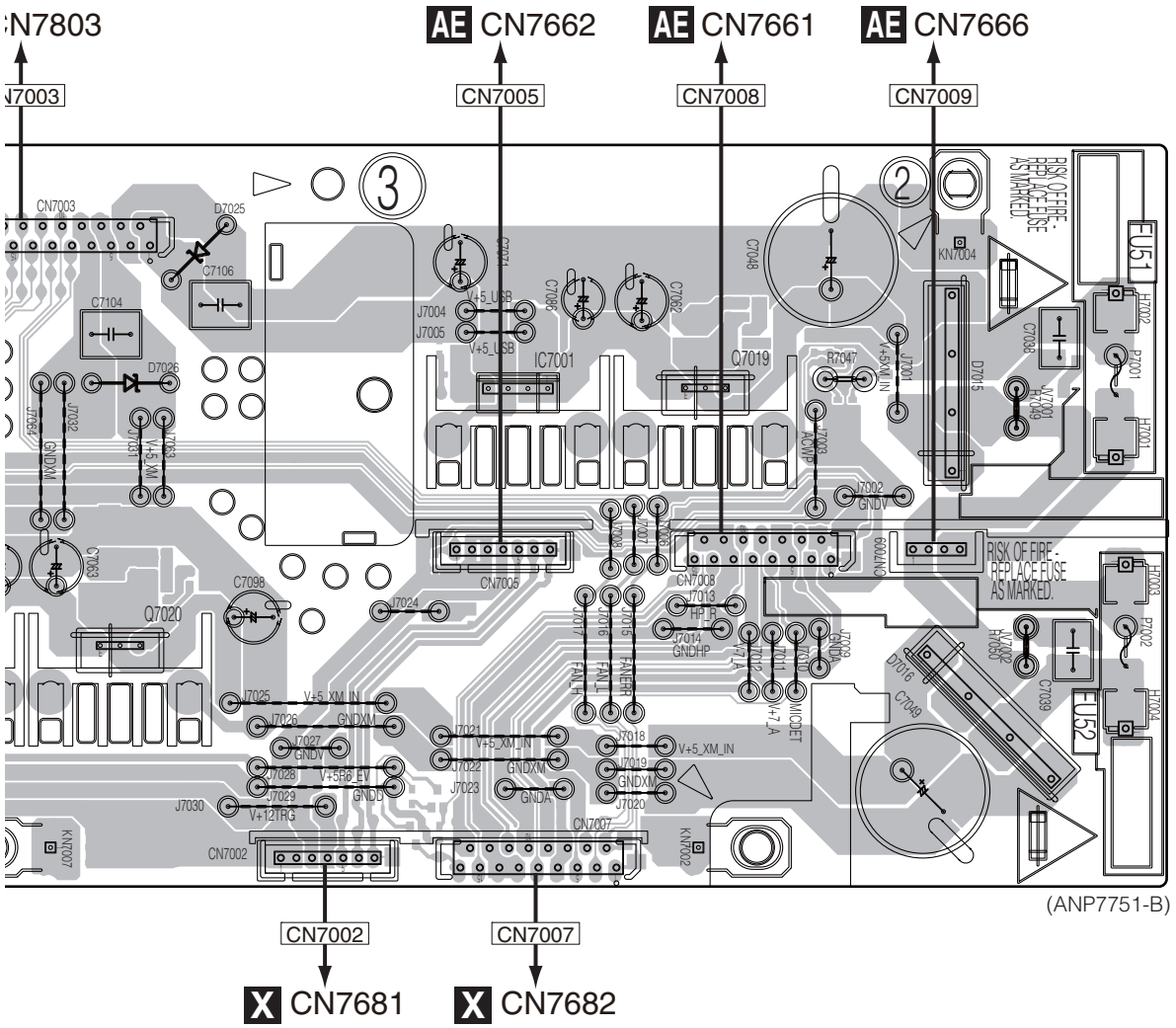
11.6 INTERFACE ASSY

SIDE A

G INTERFACE ASSY



SIDE A

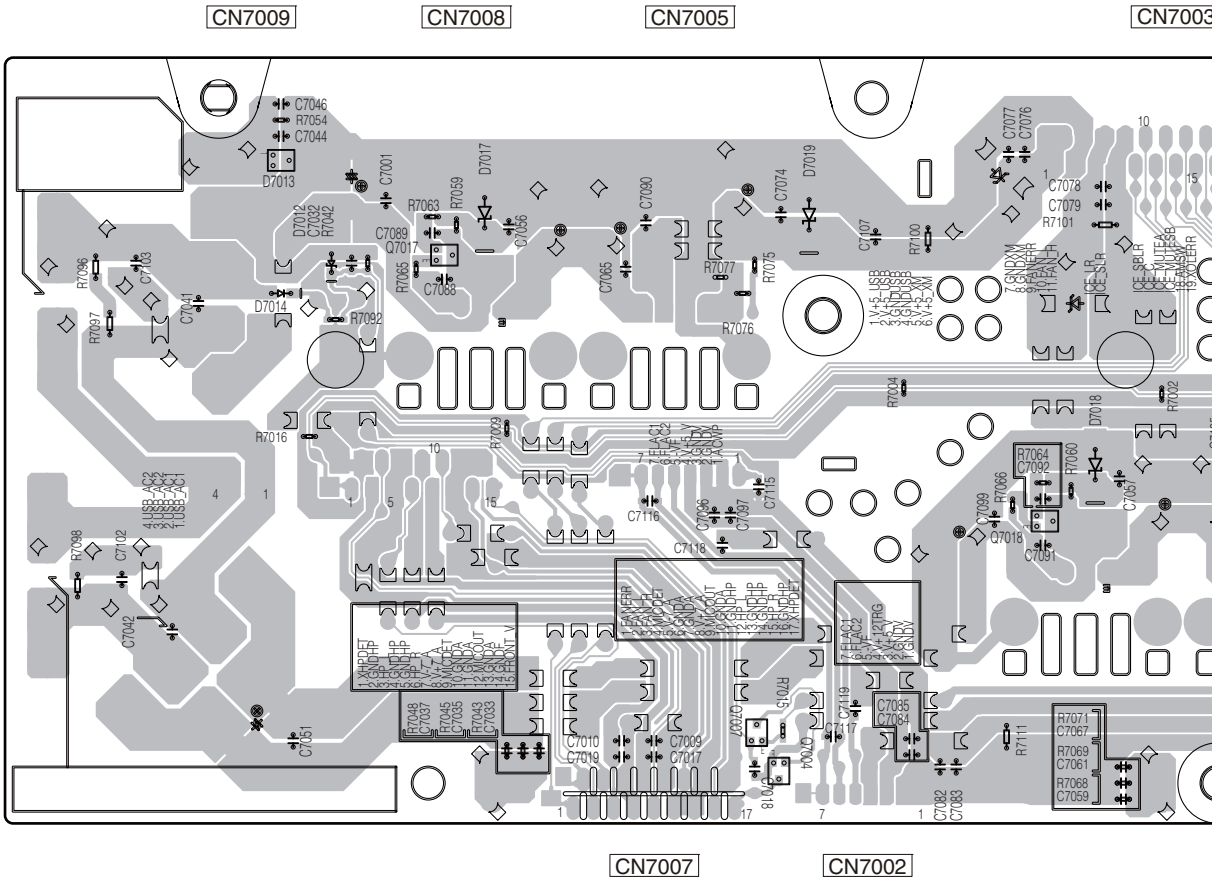


(ANP7751-B)

IC	Q
IC7001	Q7019
IC7002	Q7020

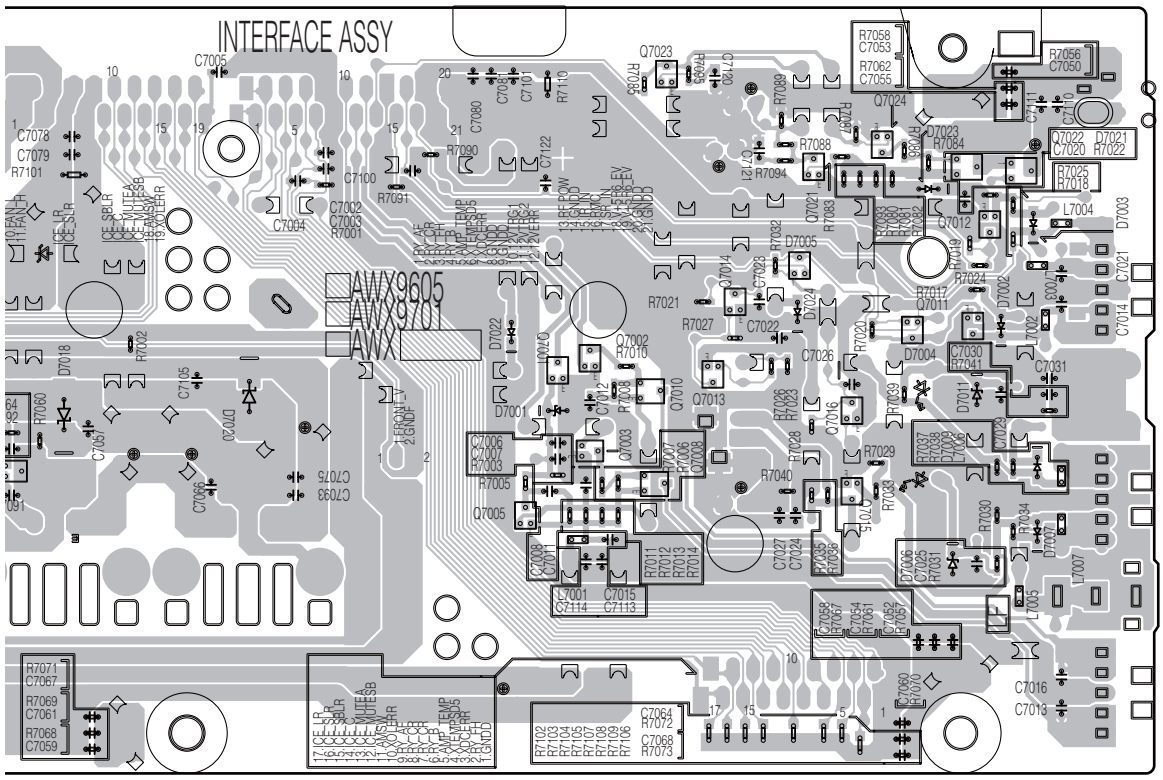
SIDE B

G INTERFACE ASSY



SIDE B

CN7003 CN7004



(ANP7751-B)

JP7001 CN7006

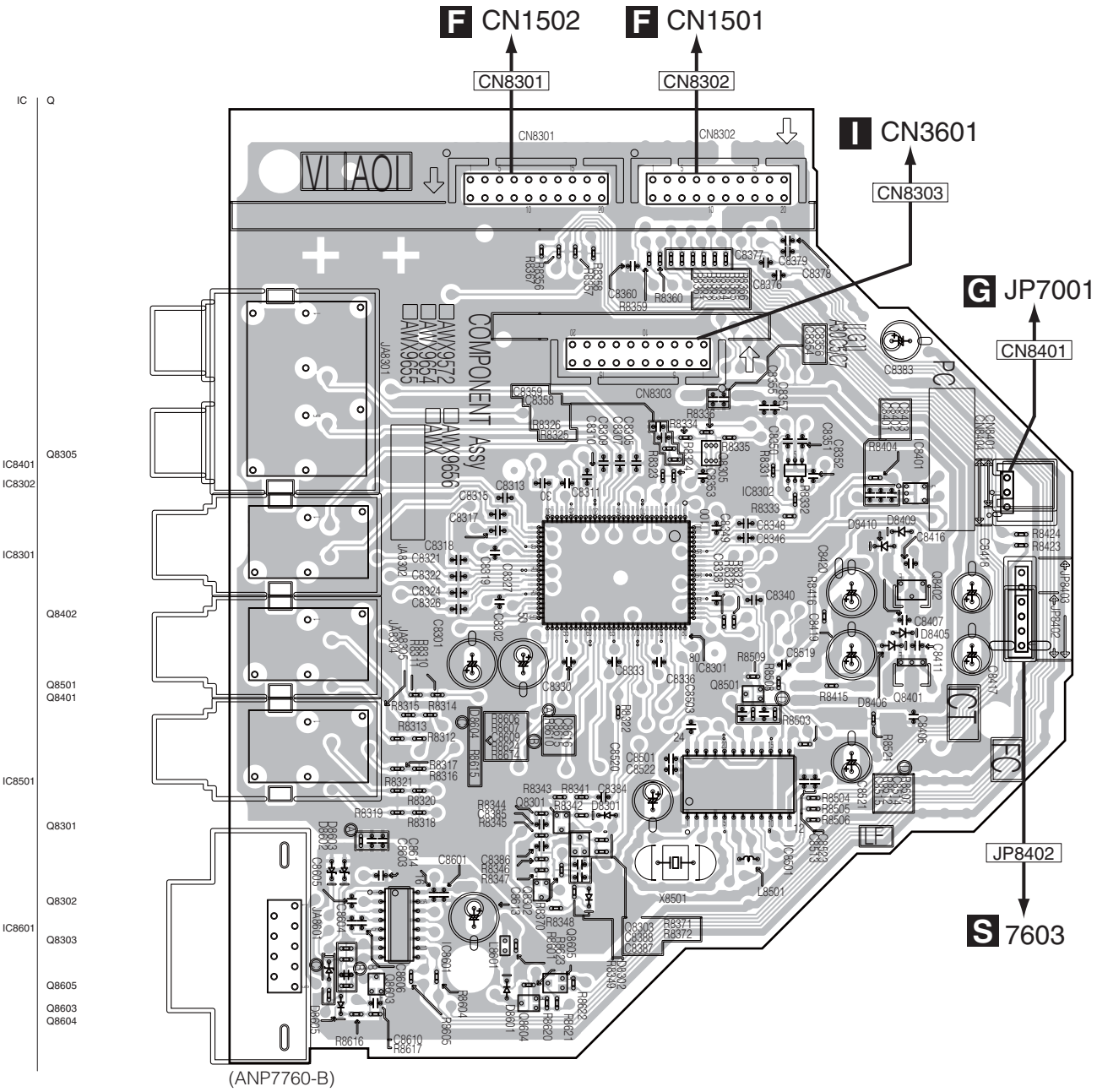
IC	Q
	Q7023
	Q7024
	Q7022
Q7017	Q7021
	Q7012
	Q7014
	Q7011
	Q7002
	Q7001
	Q7010
	Q7013
	Q7016
	Q7003
	Q7008
Q7018	
	Q7015
	Q7005
	Q7007
Q 7004	

11.7 COMPONENT ASSY

SIDE A

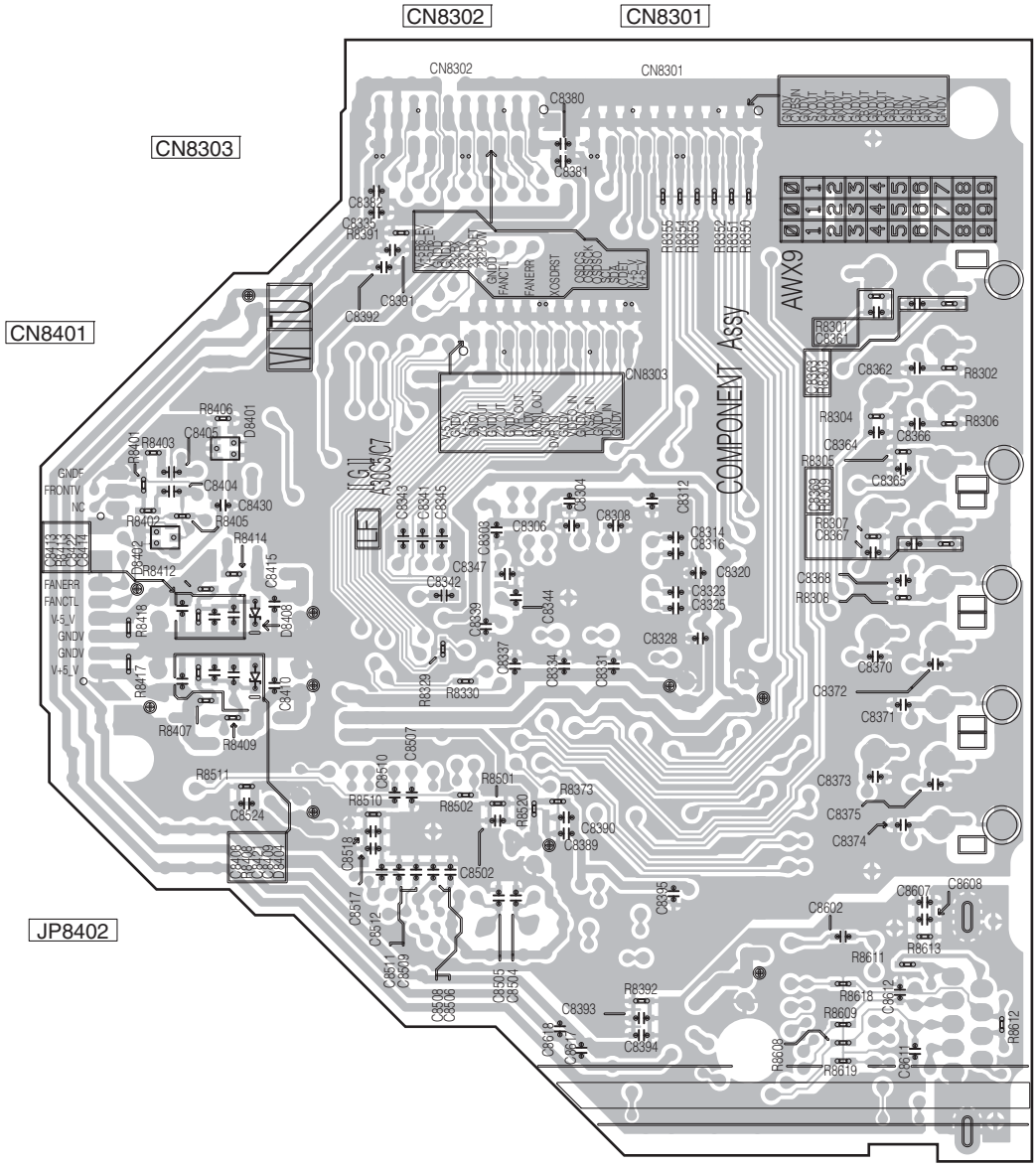
SIDE A

H COMPONENT ASSY



SIDE B

H COMPONENT ASSY

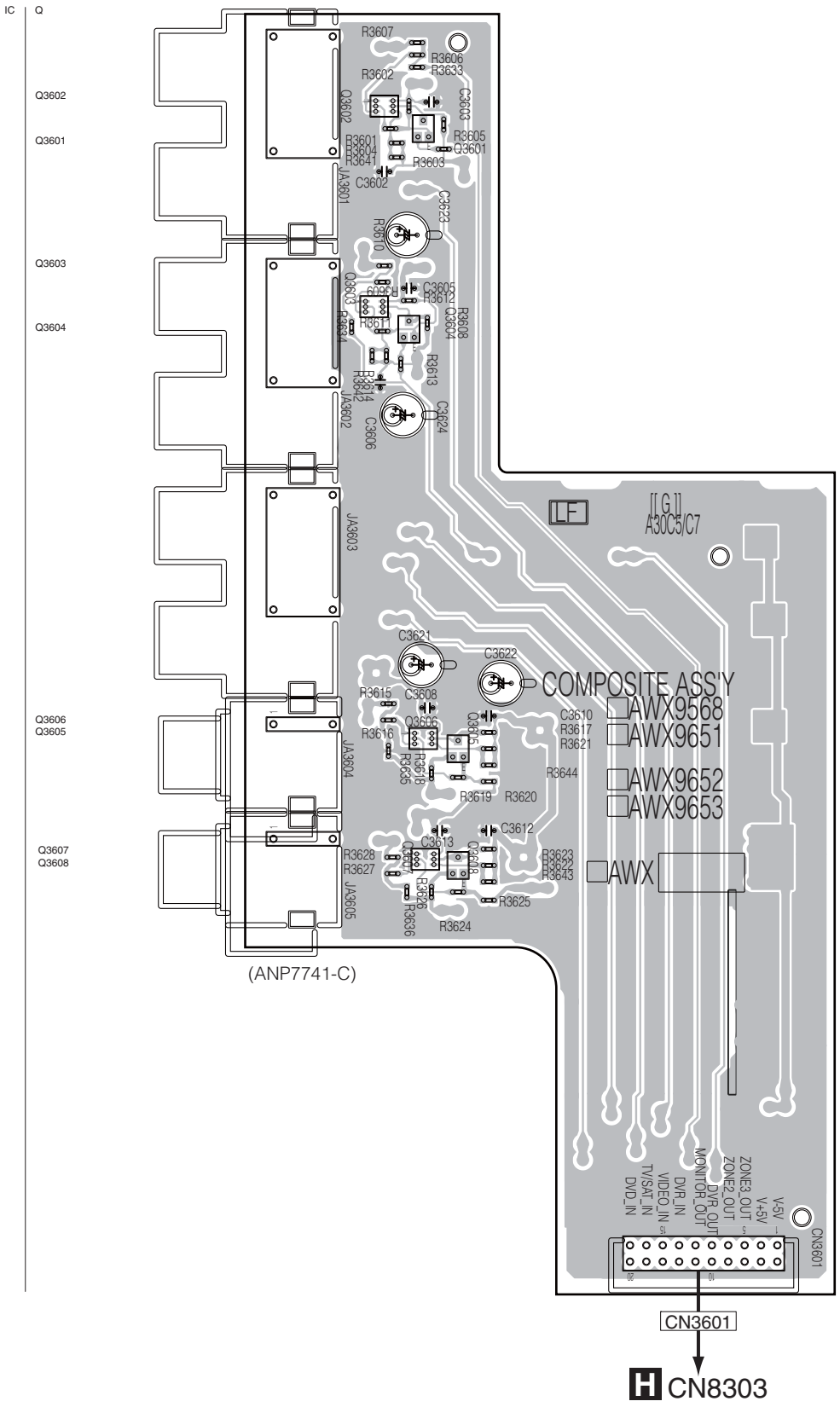


11.8 COMPOSITE ASSY

SIDE A

SIDE A

I COMPOSITE ASSY



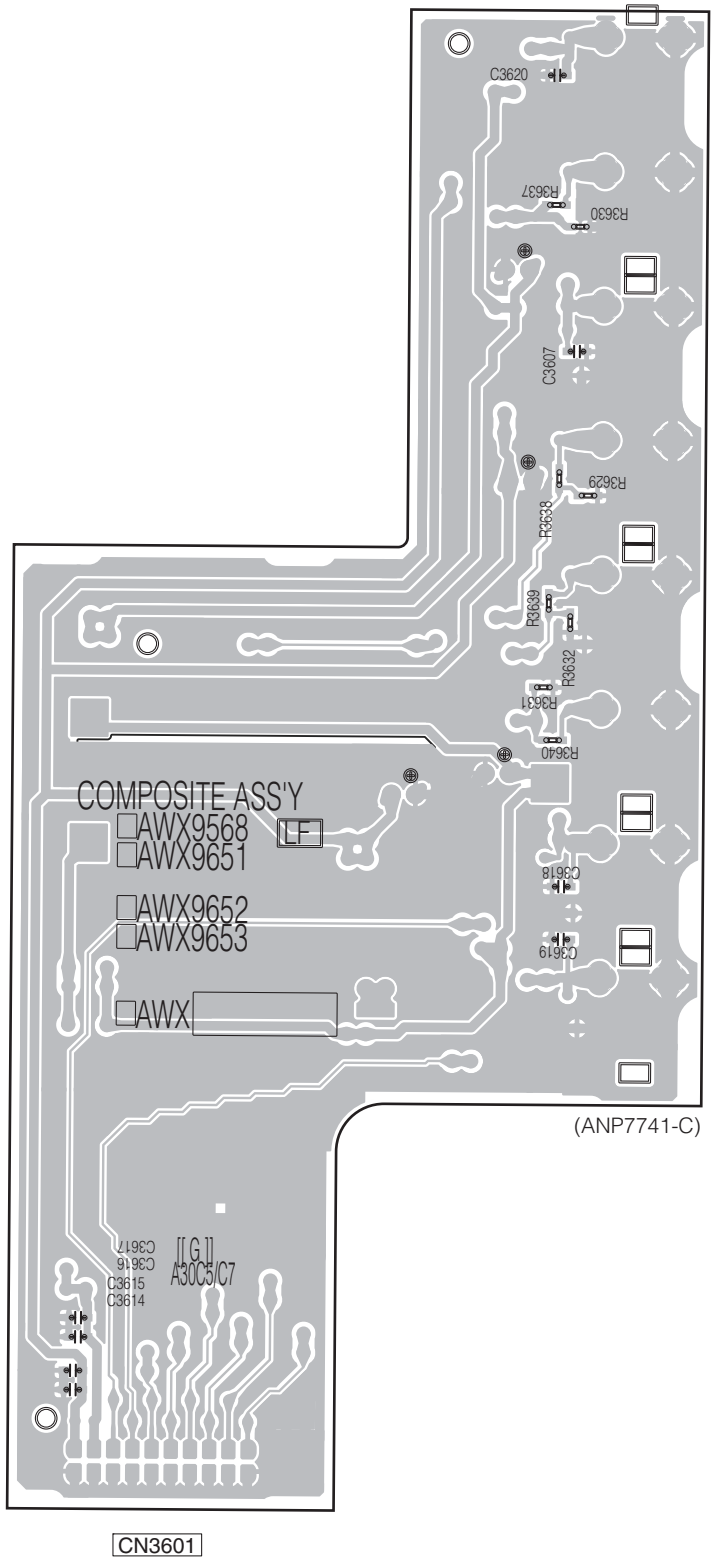
I

I

SIDE B

SIDE B

COMPOSITE ASSY



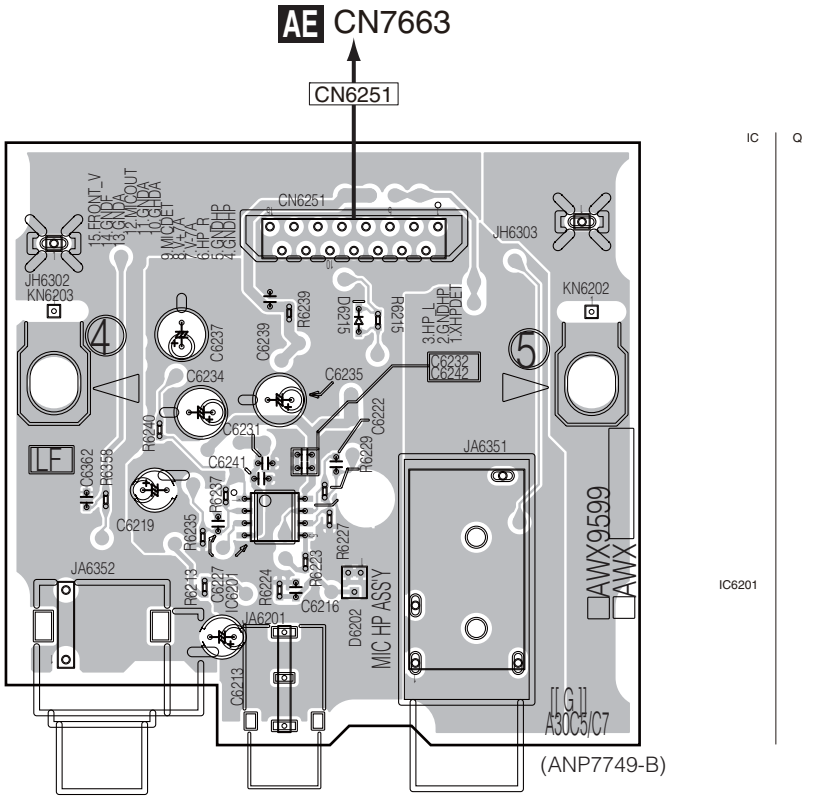
(ANP7741-C)

11.9 MIC HP, VOL and POWER SW ASSYS

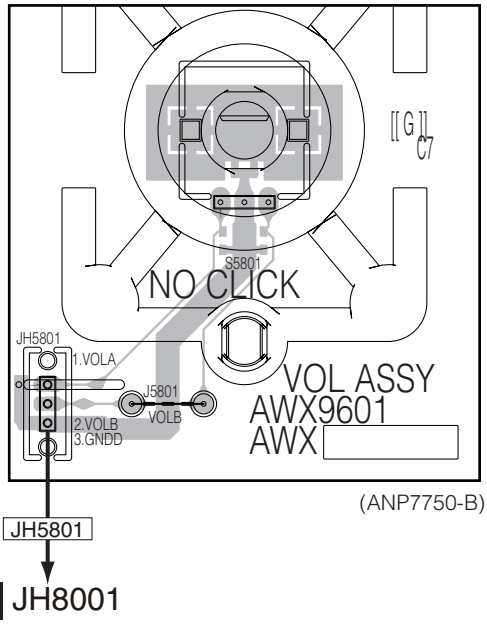
SIDE A

SIDE A

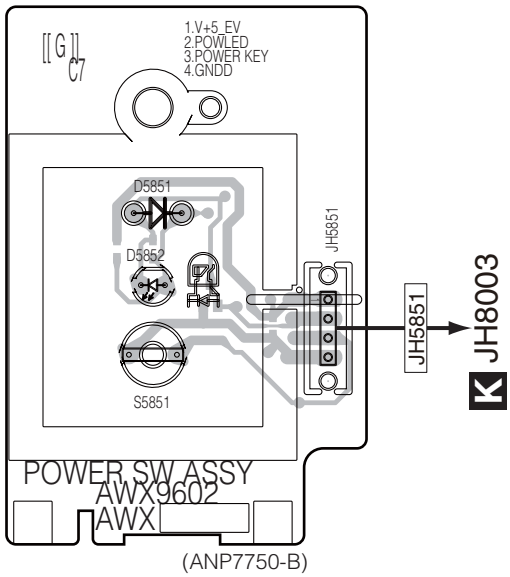
J MIC HP ASSY



L VOL ASSY



M POWER SW ASSY



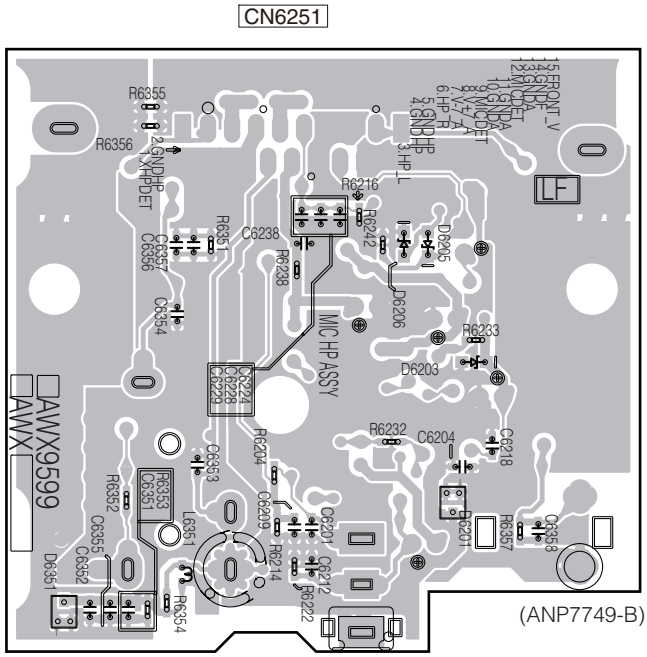
J L M

J L M

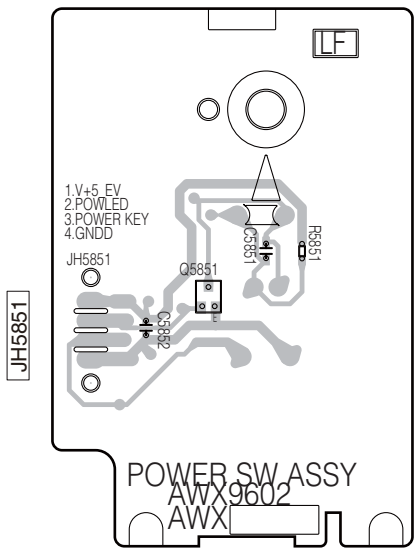
SIDE B

SIDE B

J MIC AMP ASSY



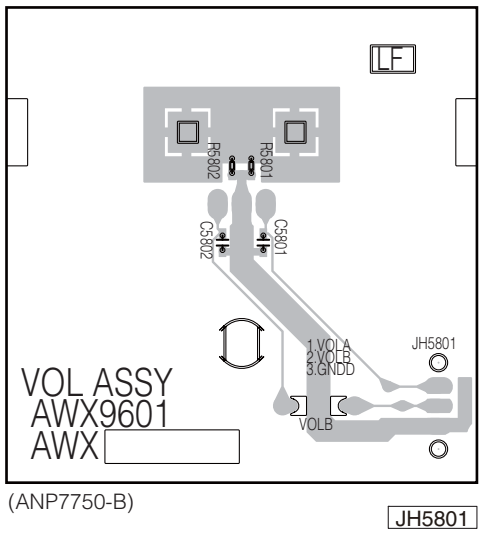
M POWER SW ASSY



IC Q

Q5851

L VOL ASSY



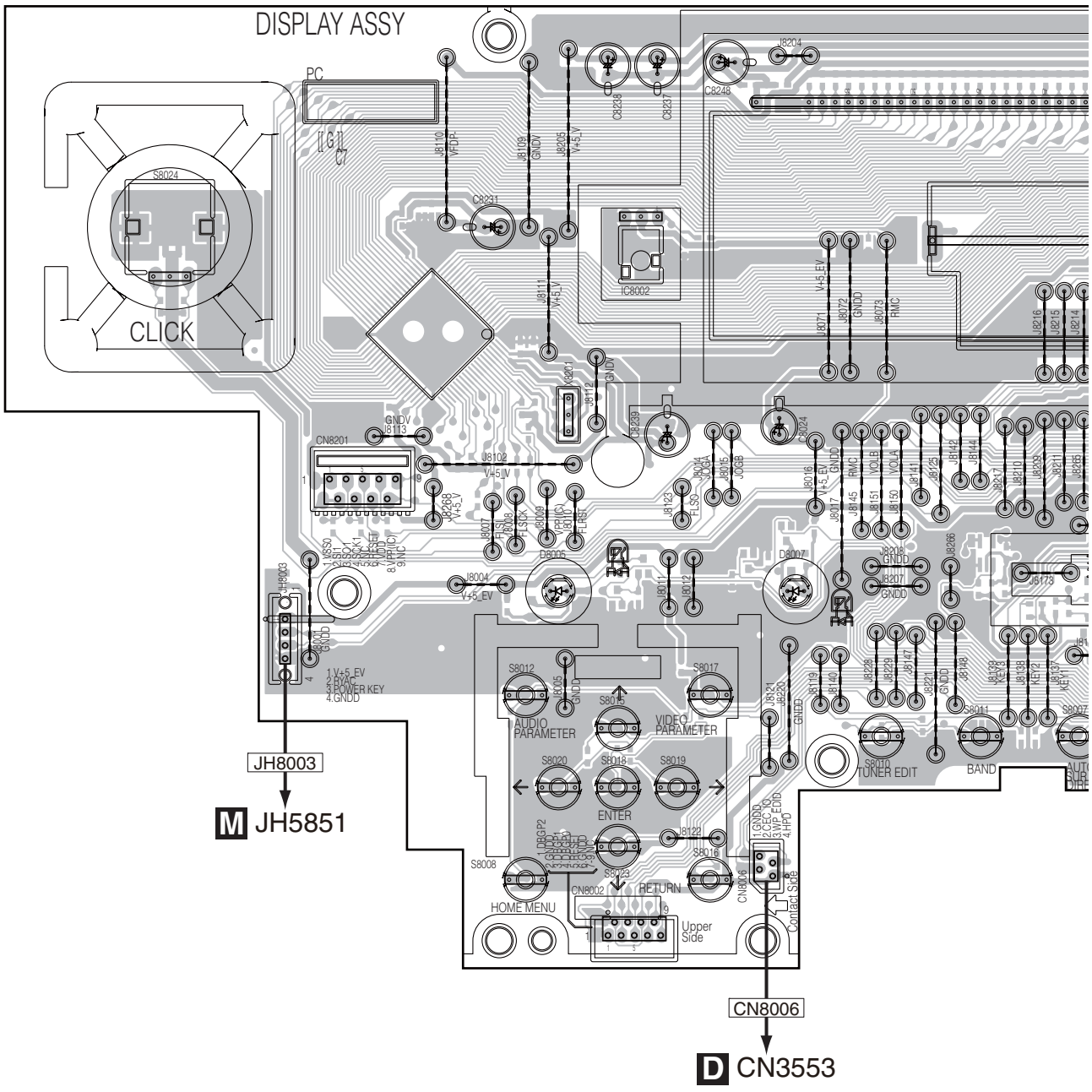
J L M

J L M

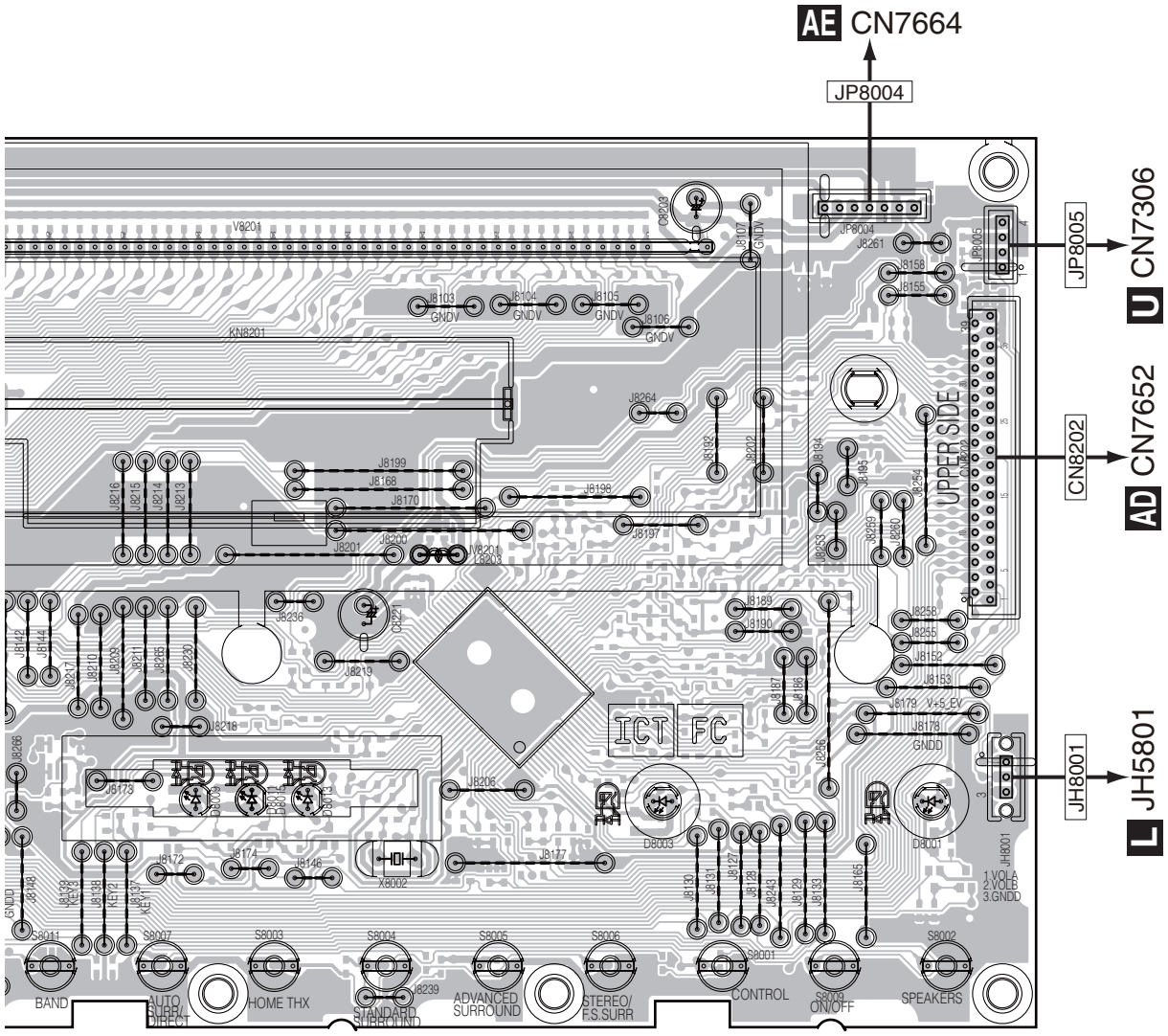
11.10 DISPLAY ASSY

SIDE A

K DISPLAY ASSY



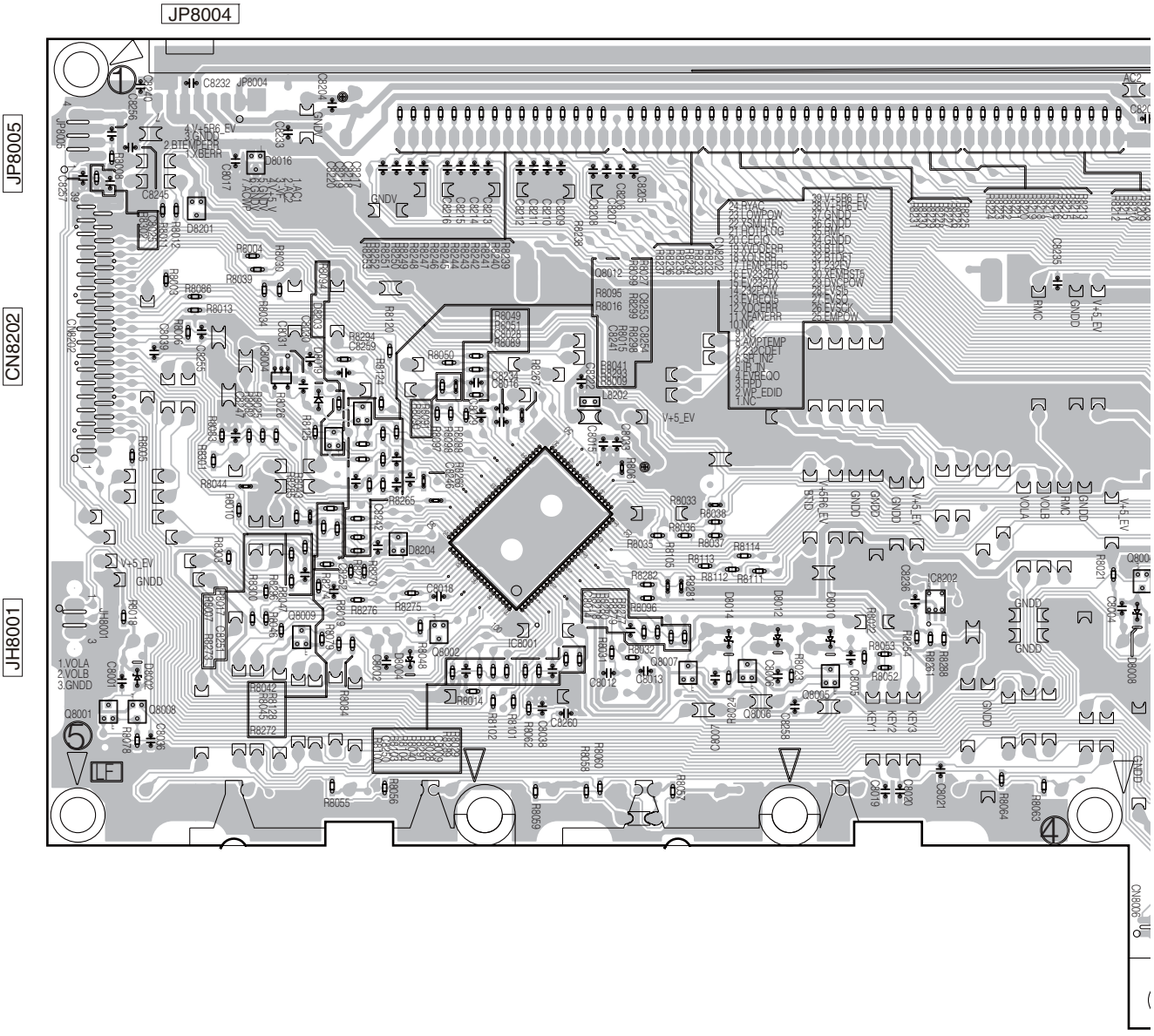
SIDE A



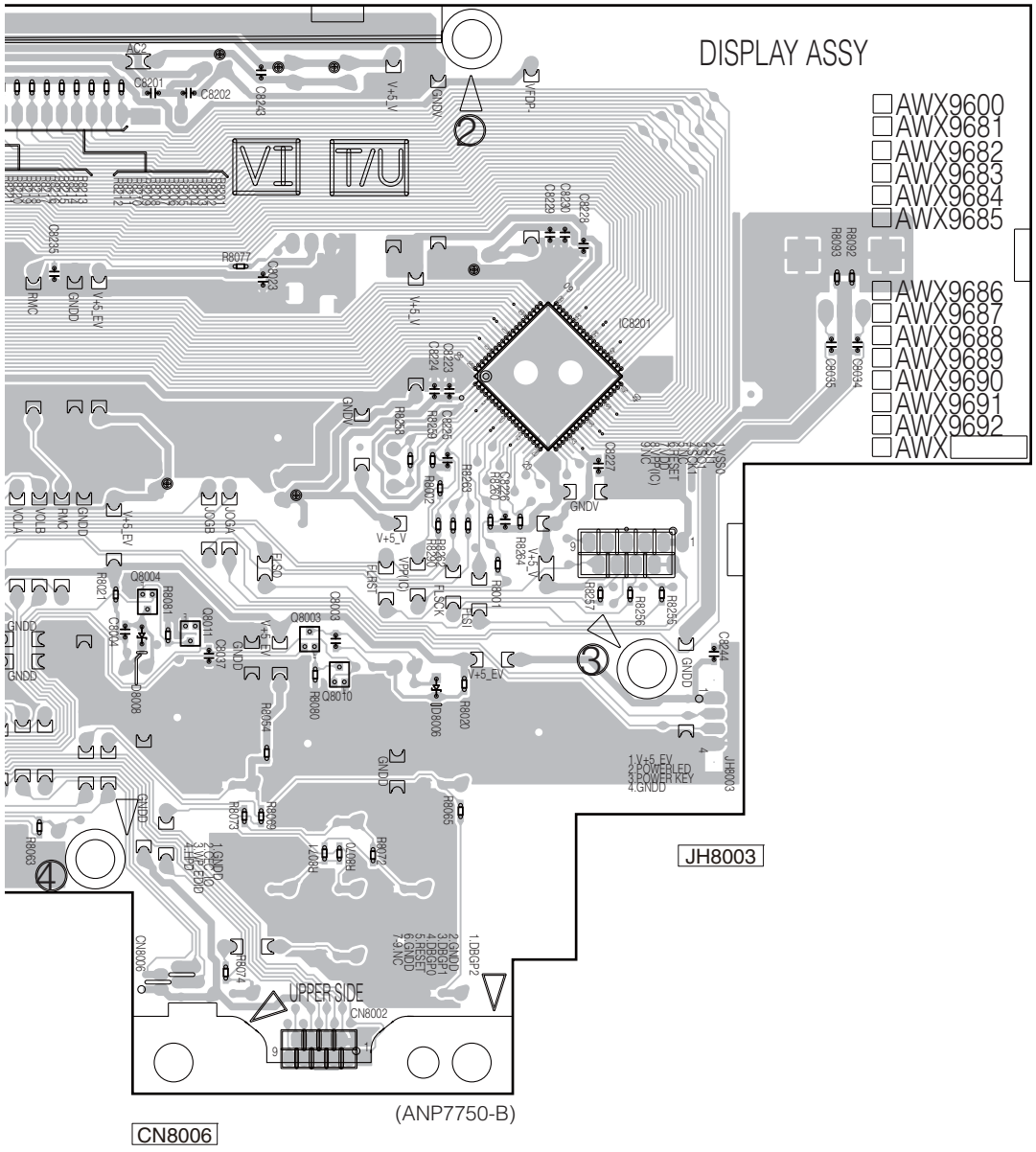
(ANP7750-B)

SIDE B

K DISPLAY ASSY



SIDE B



IC

IC8201
IC8004
IC8202
IC8001

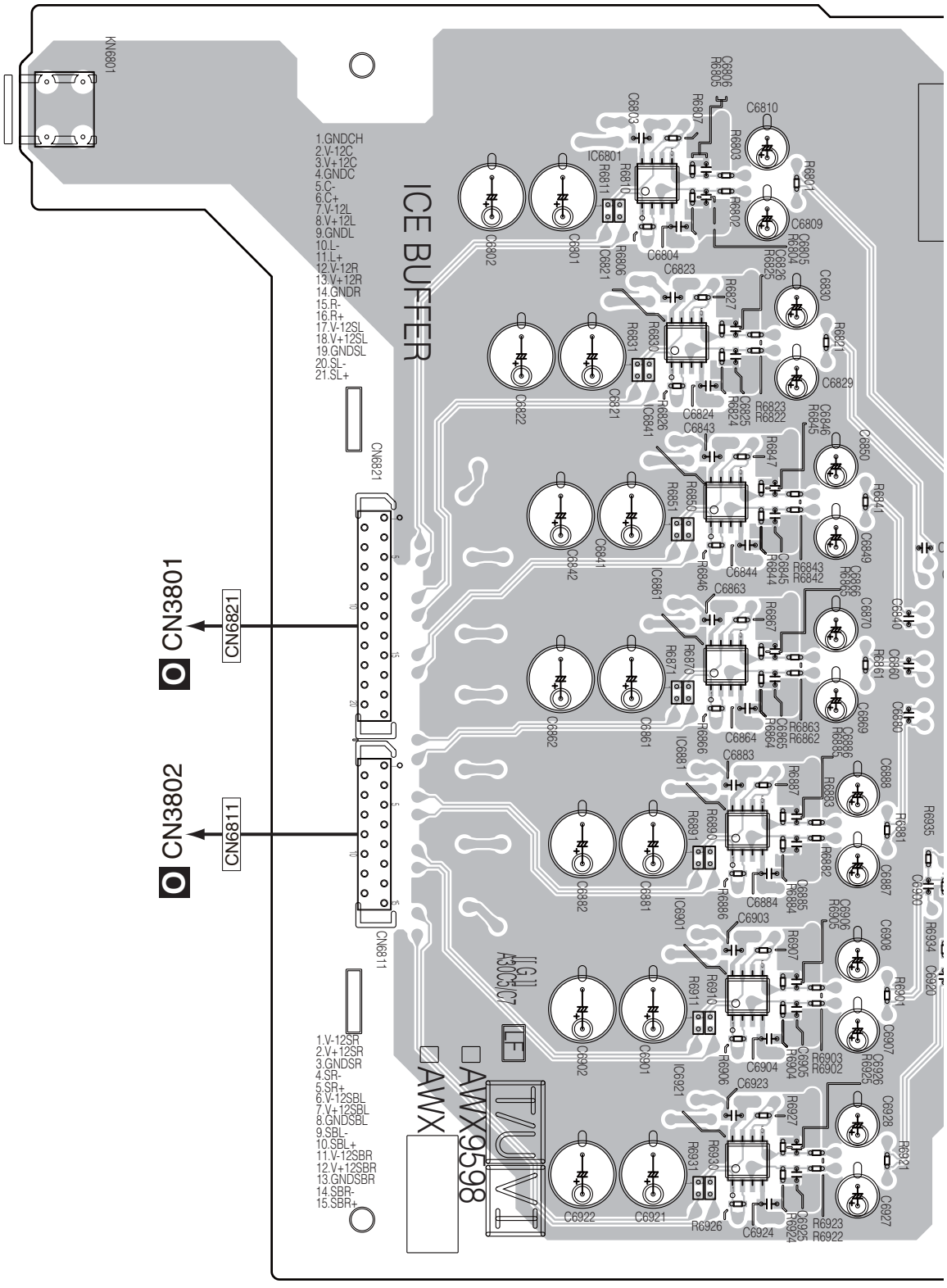
Q

Q8012
Q8004
Q8011
Q8003
Q8009
Q8002
Q8007
Q8005
Q8006
Q8008
Q8001
Q8010

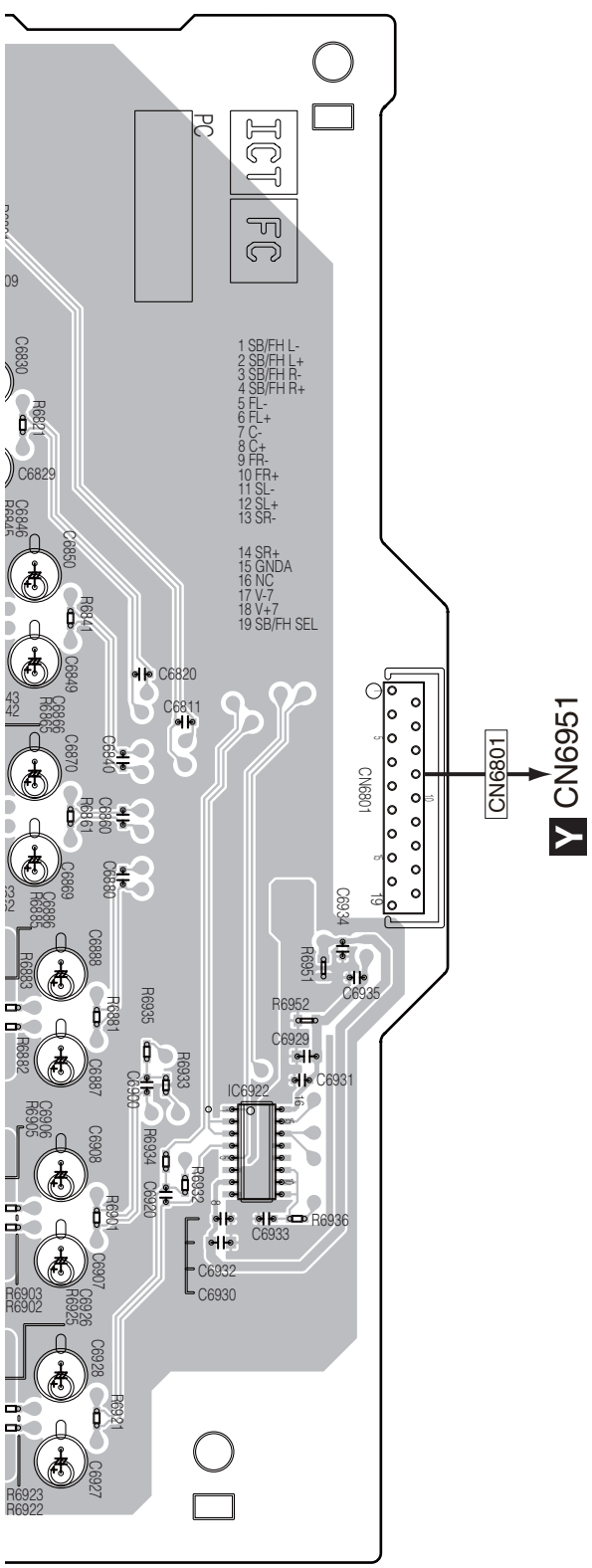
11.11 ICE BUFFER ASSY

SIDE A

N ICE BUFFER ASSY



SIDE A



(ANP7749-B)

IC Q

IC6801

IC6821

IC6841

IC6861

IC6881

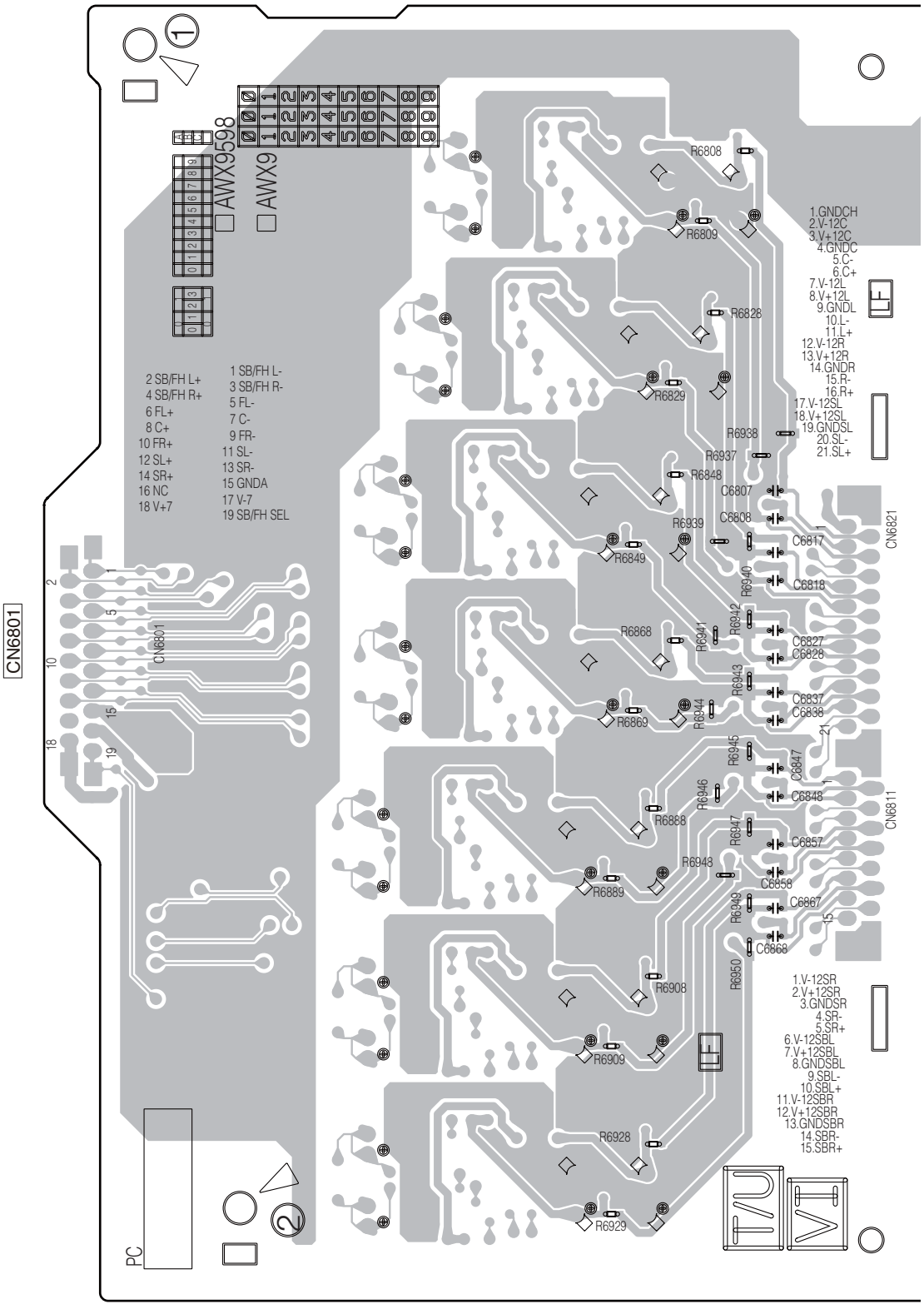
IC6922

IC6901

IC6921

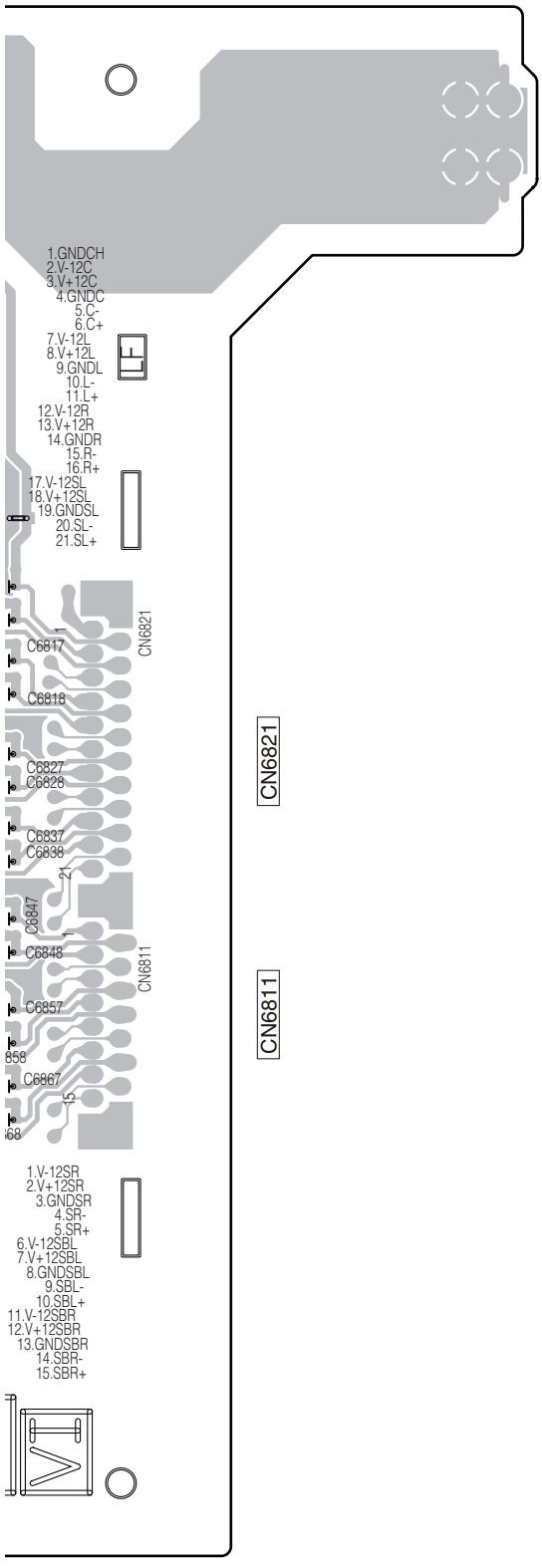
SIDE B

N ICE BUFFER ASSY



(ANP77

SIDE B



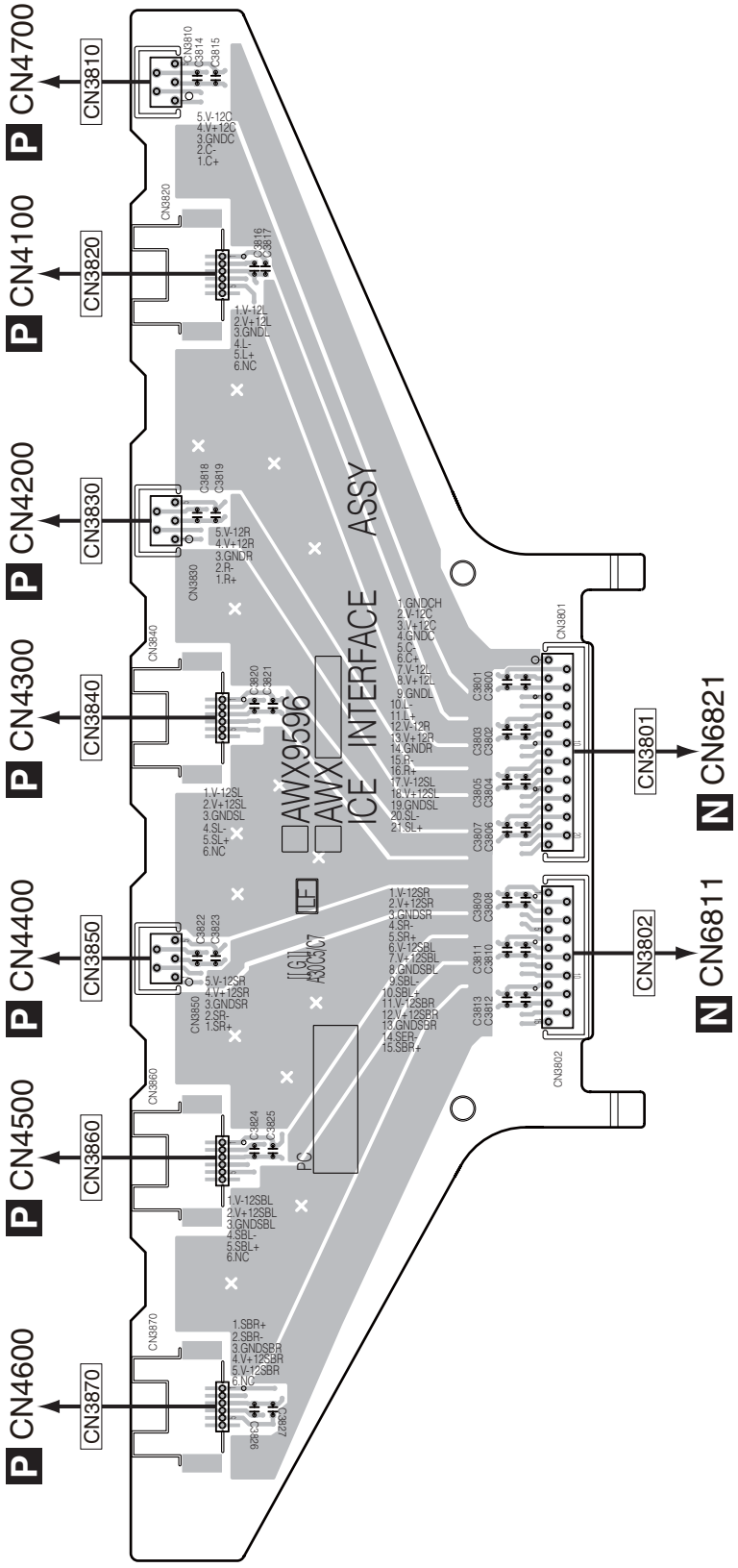
(ANP7749-B)

11.12 ICE INTERFACE ASSY

SIDE A

SIDE A

O ICE INTERFACE ASSY

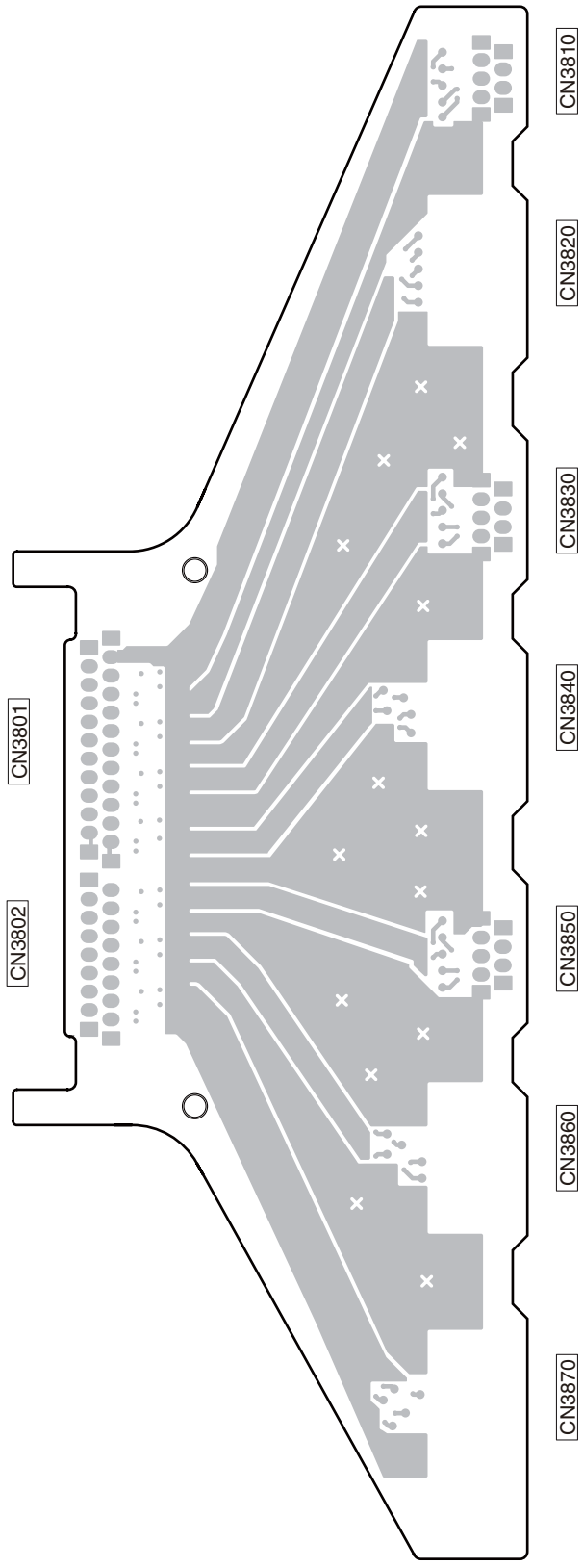


(ANP7748-B)

SIDE B

SIDE B

O ICE INTERFACE ASSY

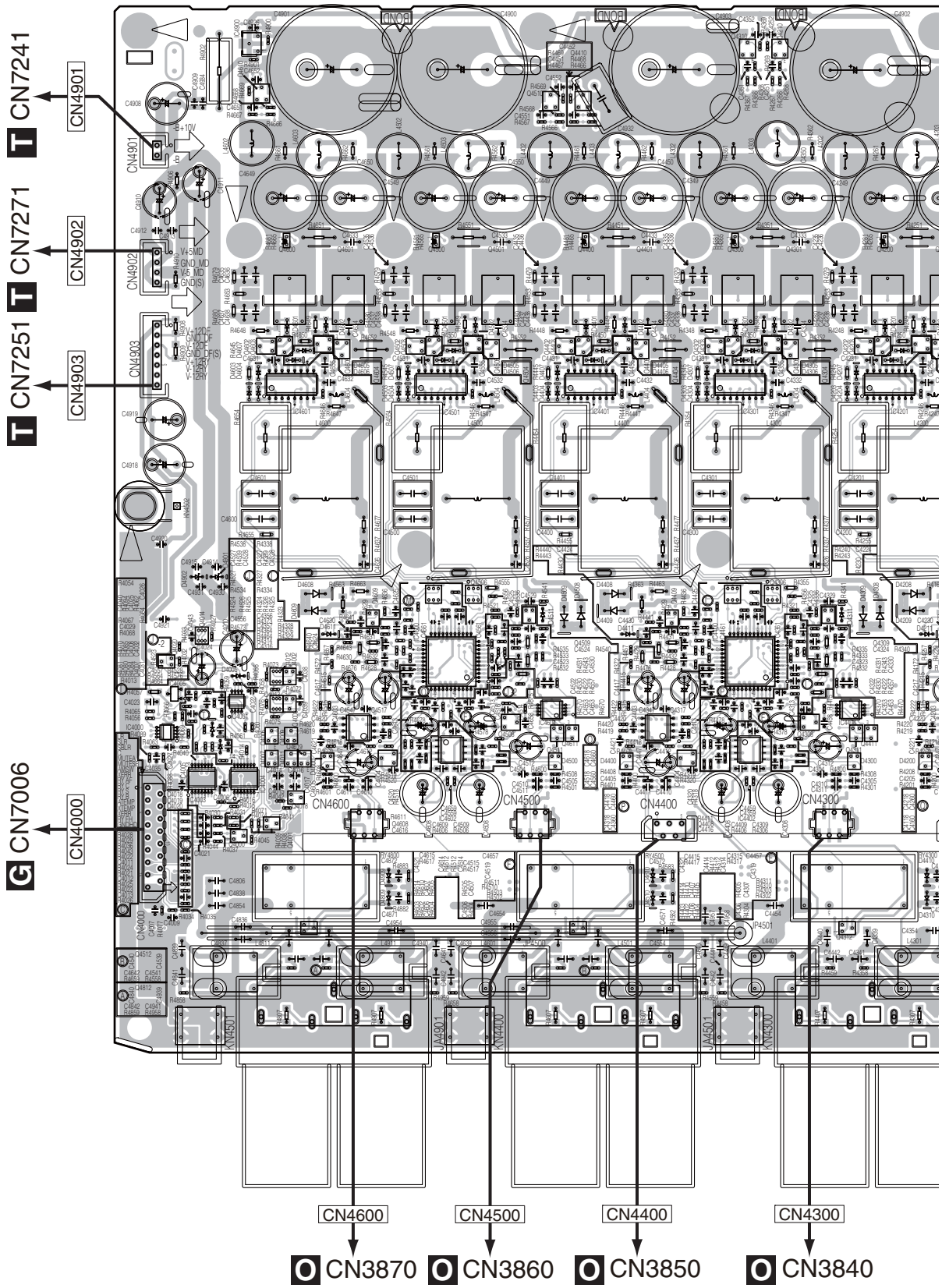


(ANP7748-B)

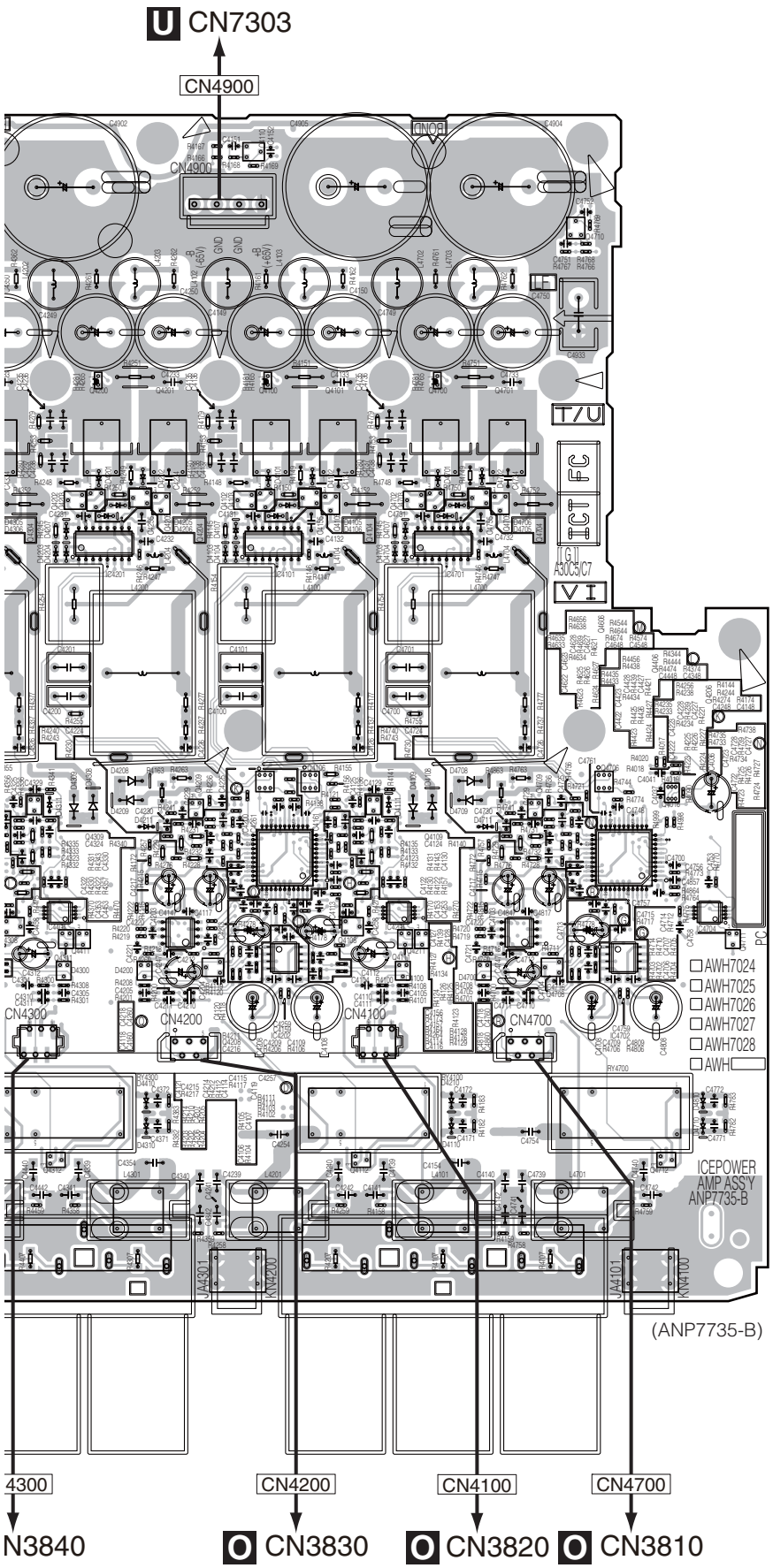
11.13 ICEPOWER AMP ASSY

SIDE A

P ICEPOWER AMP ASSY



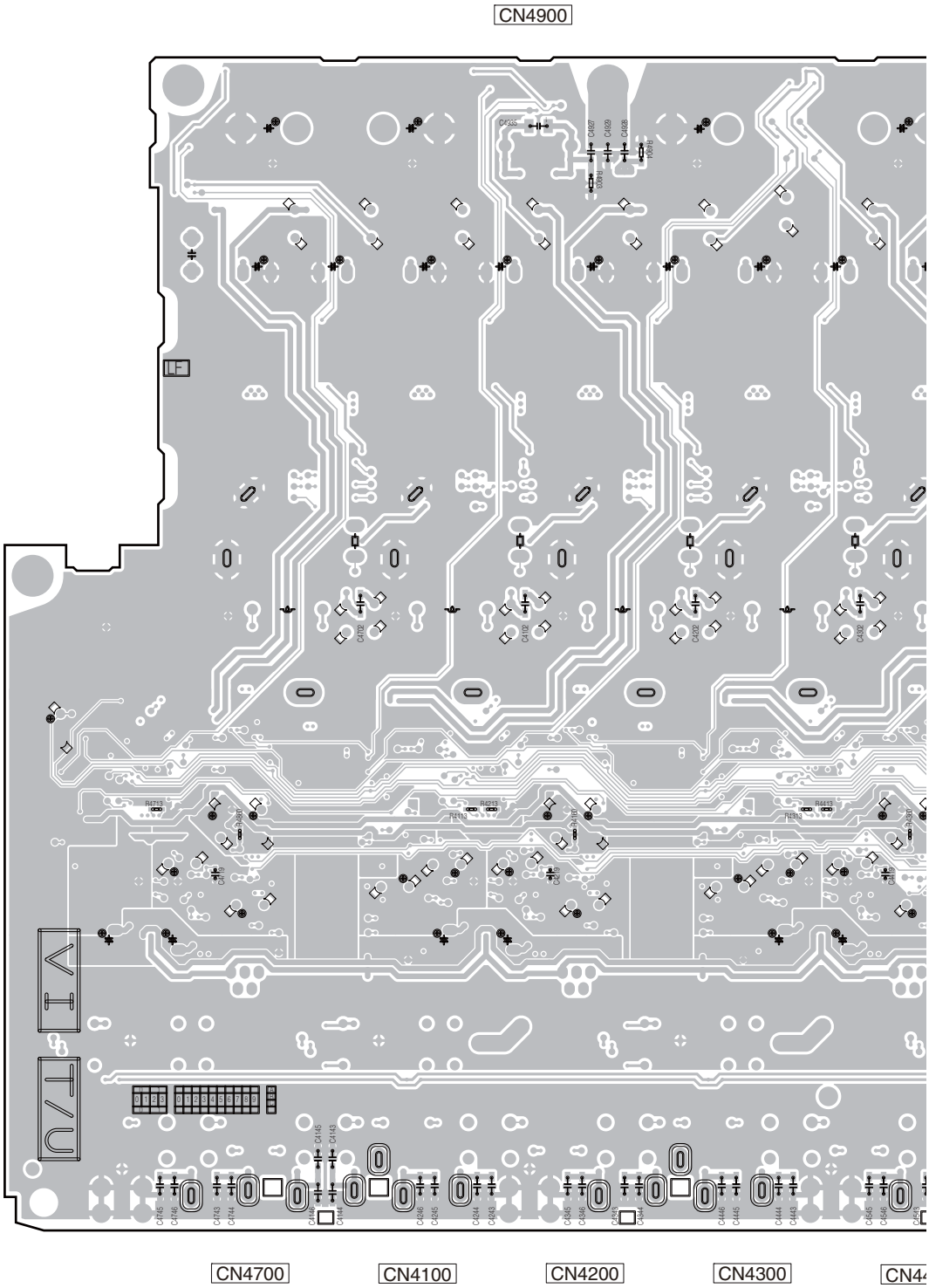
SIDE A



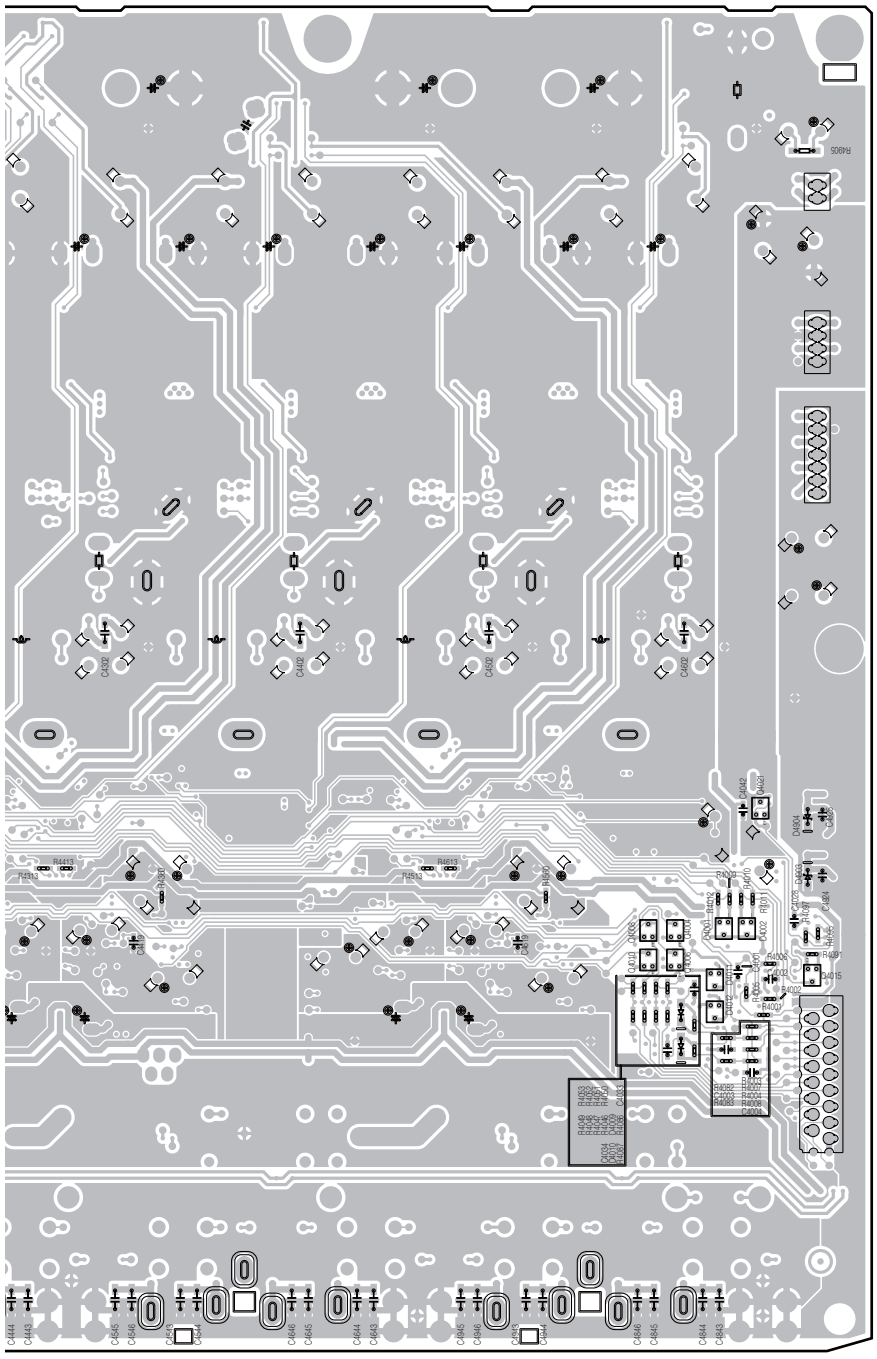
IC	Q
	Q4310 Q4210 Q4110
IC4900	Q4410
	Q4610
	Q4510
	Q4710
	Q4600 Q4301
	Q4601 Q4200
	Q4500 Q4201
	Q4501 Q4100
	Q4400 Q4101
	Q4401 Q4700
	Q4300 Q4701
	Q4602 Q4305
	Q4603 Q4304
	Q4605 Q4202
	Q4604 Q4203
	Q4502 Q4205
	Q4503 Q4204
IC4601 IC4201	Q4505 Q4102
IC4501 IC4101	Q4504 Q4103
IC4401 IC4701	Q4402 Q4105
IC4301	Q4403 Q4104
	Q4405 Q4702
	Q4404 Q4703
	Q4302 Q4705
	Q4303 Q4704
	Q4606
	Q4406
	Q4206
	Q4306
	Q4309
	Q4209
	Q4106
	Q4109
	Q4020 Q4709
	Q4014
	Q4012 Q4706
	Q4002 Q4016
	Q4609
	Q4506
	Q4509
	Q4409
IC4600 IC4200	
IC4400	
IC4700	
IC4005	Q4013
	Q4003
	Q4005
	Q4009 Q4308
	Q4007 Q4411
IC4000 IC4404	Q4011 Q4311
IC4001 IC4203	Q4019 Q4108
IC4603 IC4204	Q4508 Q4211
IC4604 IC4703	Q4511 Q4111
IC4403 IC4704	Q4611 Q4711
	Q4018 Q4708
	Q4000 Q4208
	Q4001
	Q4608
IC4003 IC4202	Q4408
IC4004 IC4702	
IC4602	
IC4402	
	Q4312
	Q4112
	Q4712
	Q4512
	Q4812

SIDE B

P ICEPOWER AMP ASSY



SIDE B



CN4901
CN4902
CN4903
CN4000

IC Q

Q4201

Q4008
Q4004
Q4010
Q4006

Q4015

Q4012

(ANP7735-B)

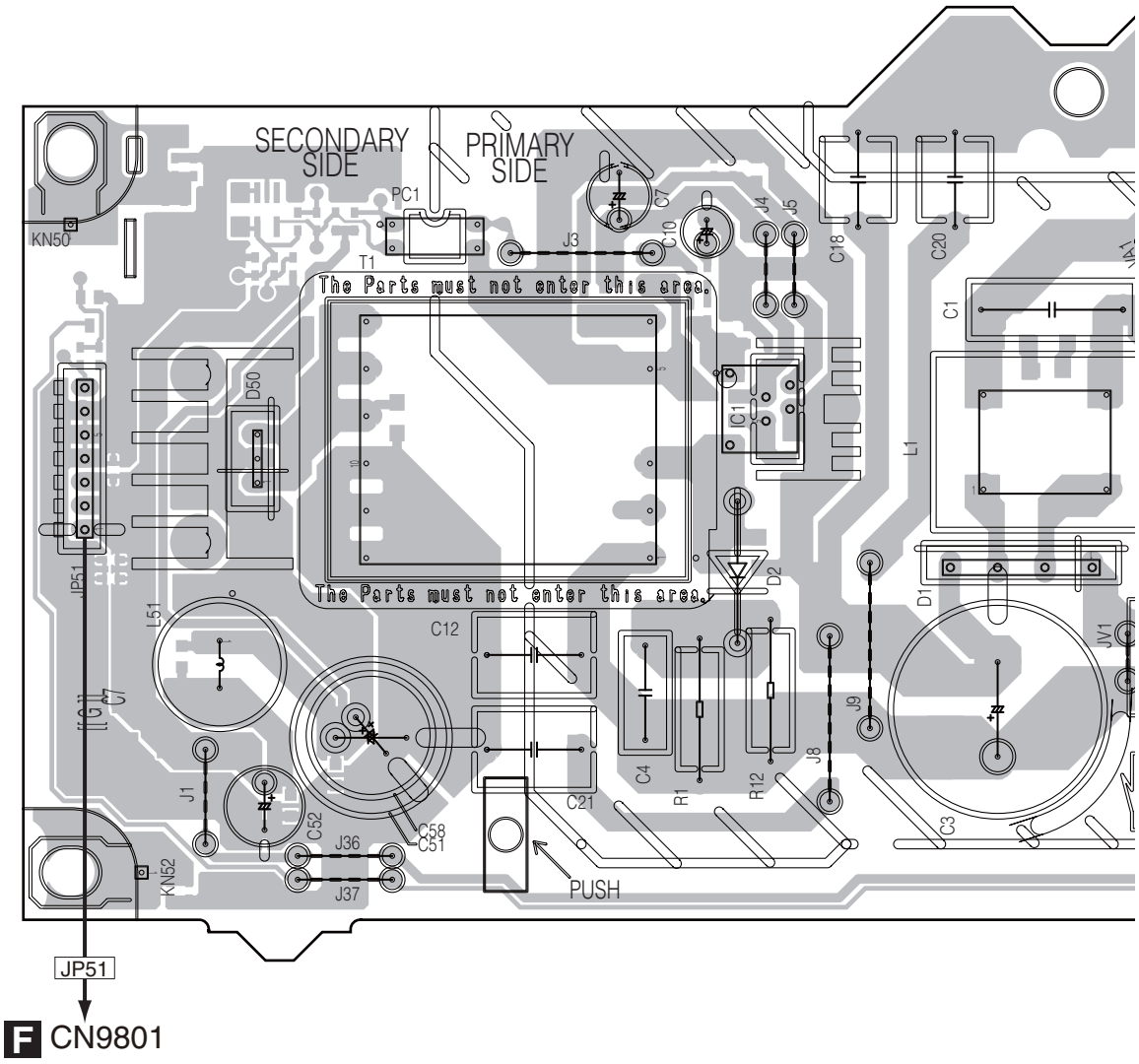
)0 CN4400 CN4500 CN4600

A B C D E F

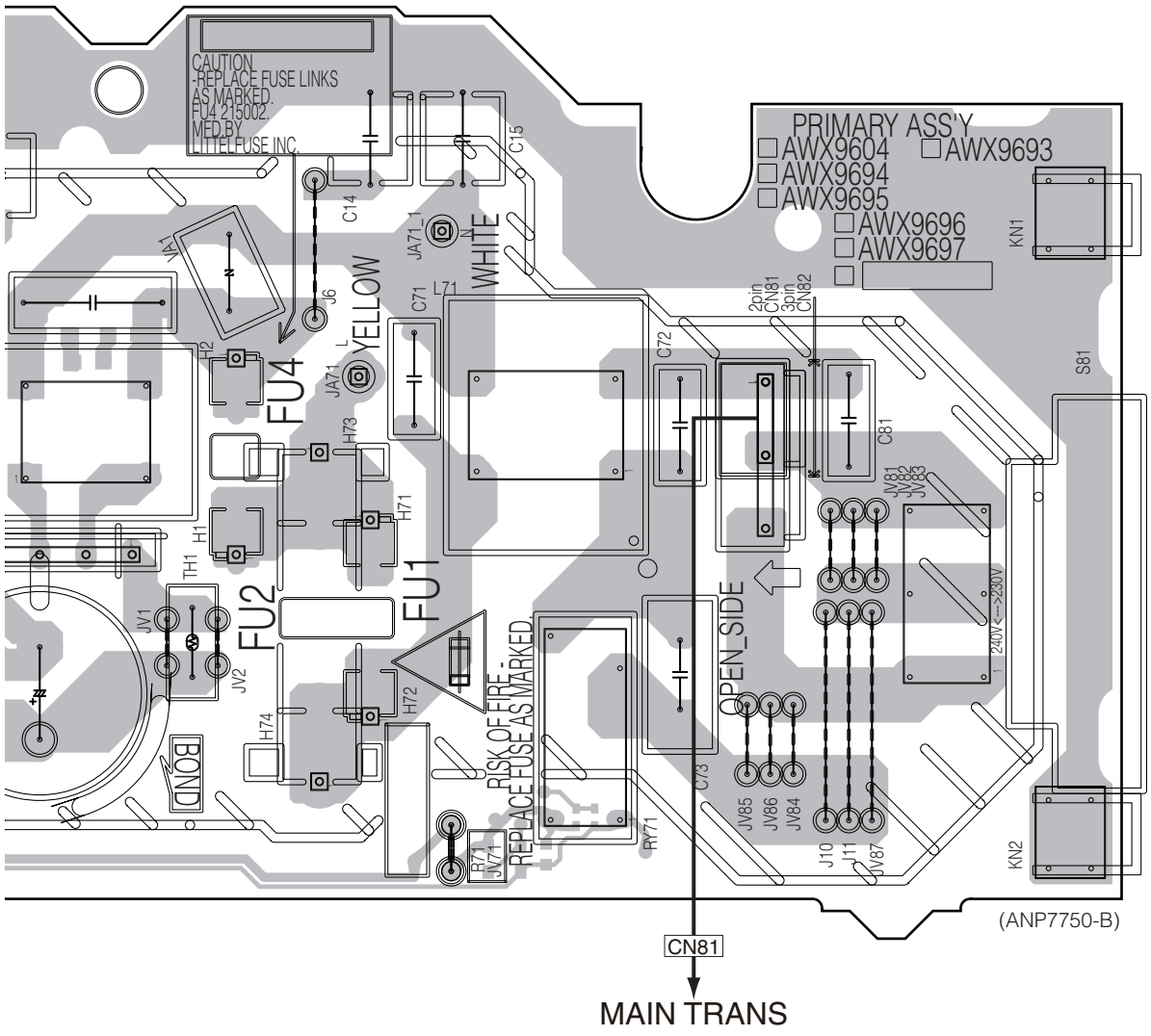
11.14 PRIMARY ASSY

SIDE A

Q PRIMARY ASSY



SIDE A

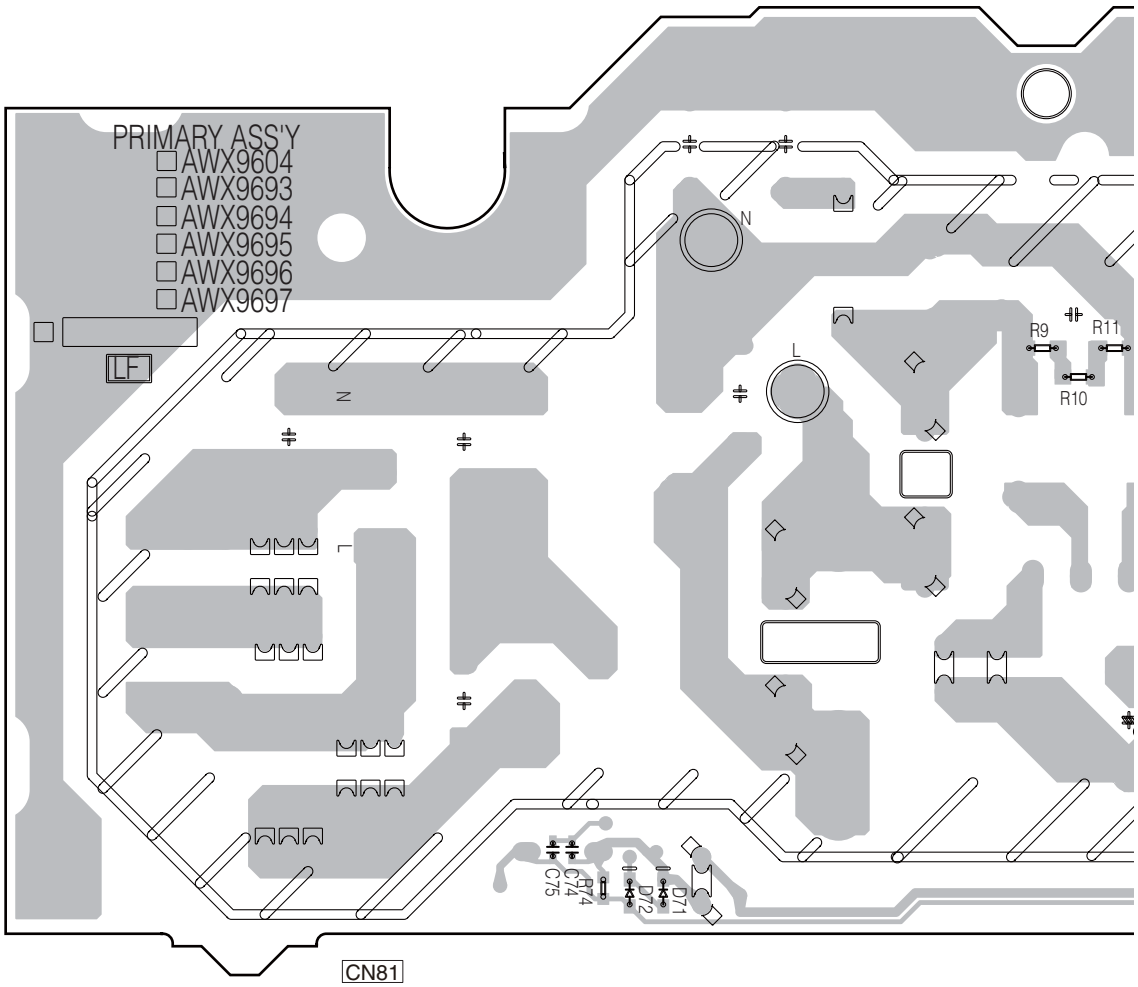

CAUTION
-REPLACE FUSE LINKS
AS MARKED.
FU4 215002.
MFD.BY
LITTELFUSE INC.
PRIMARY ASS'Y
AWX9604
AWX9693
AWX9694
AWX9695
AWX9696
AWX9697
FU4
FU2
FU1
YELLOW
WHITE
BOND
RISK OF FIRE-
REPLACE FUSE AS MARKED.
OPEN_SIDE
240V <—>230V
(ANP7750-B)
CN81
MAIN TRANS

SIDE B

A

Q PRIMARY ASSY

B



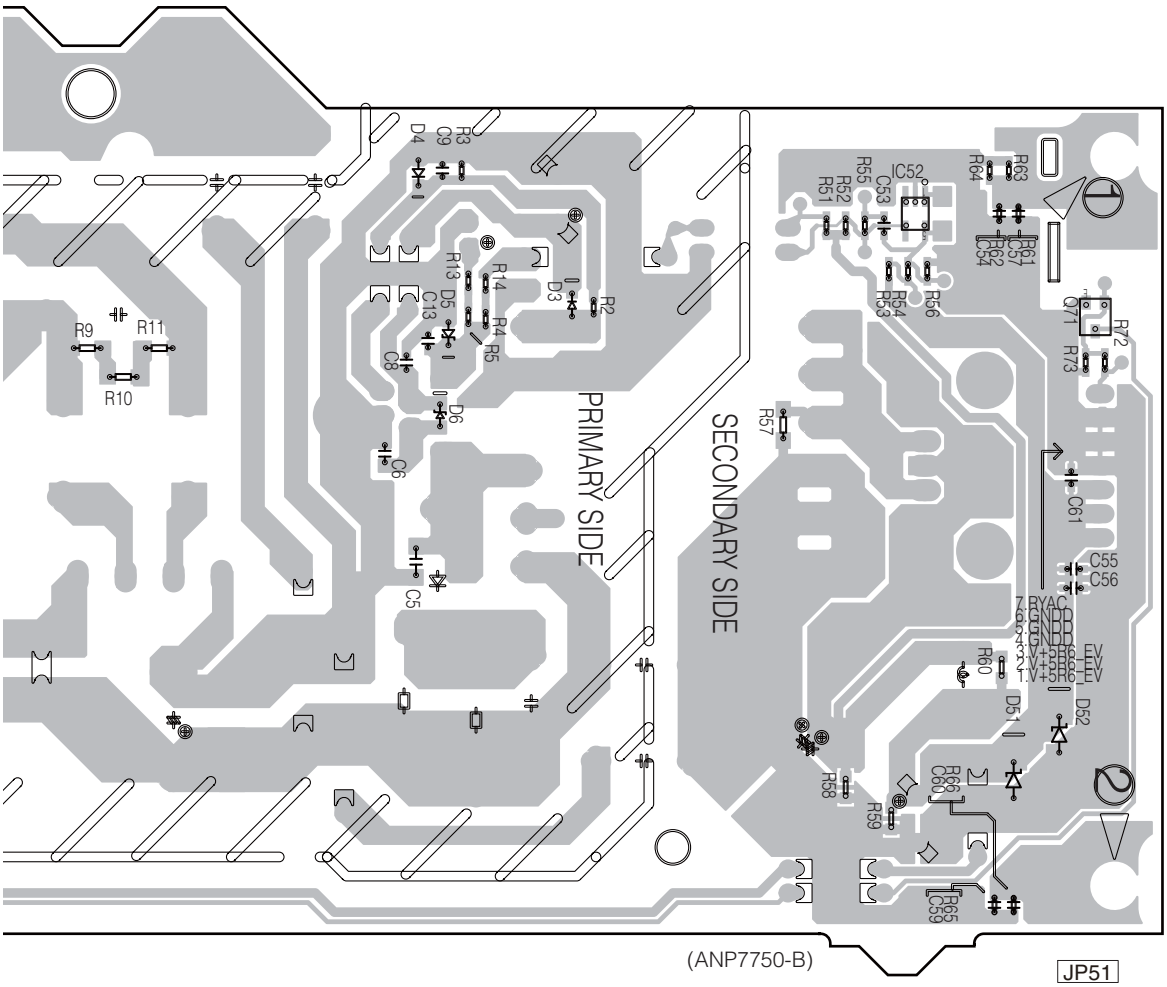
C

D

E

F

SIDE B



IC | Q

IC52

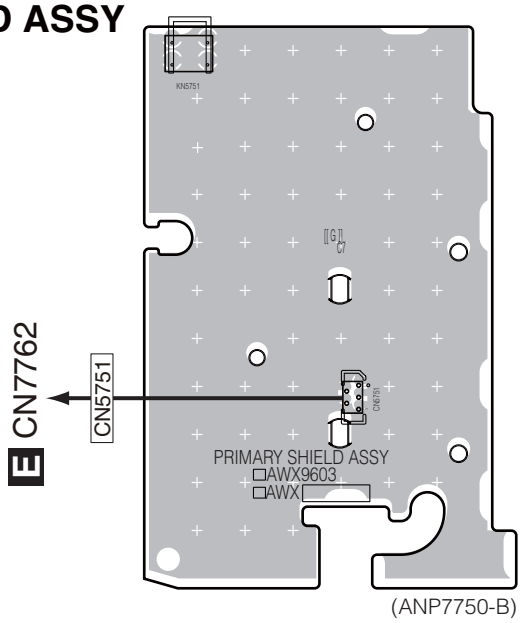
Q71

A B C D E F

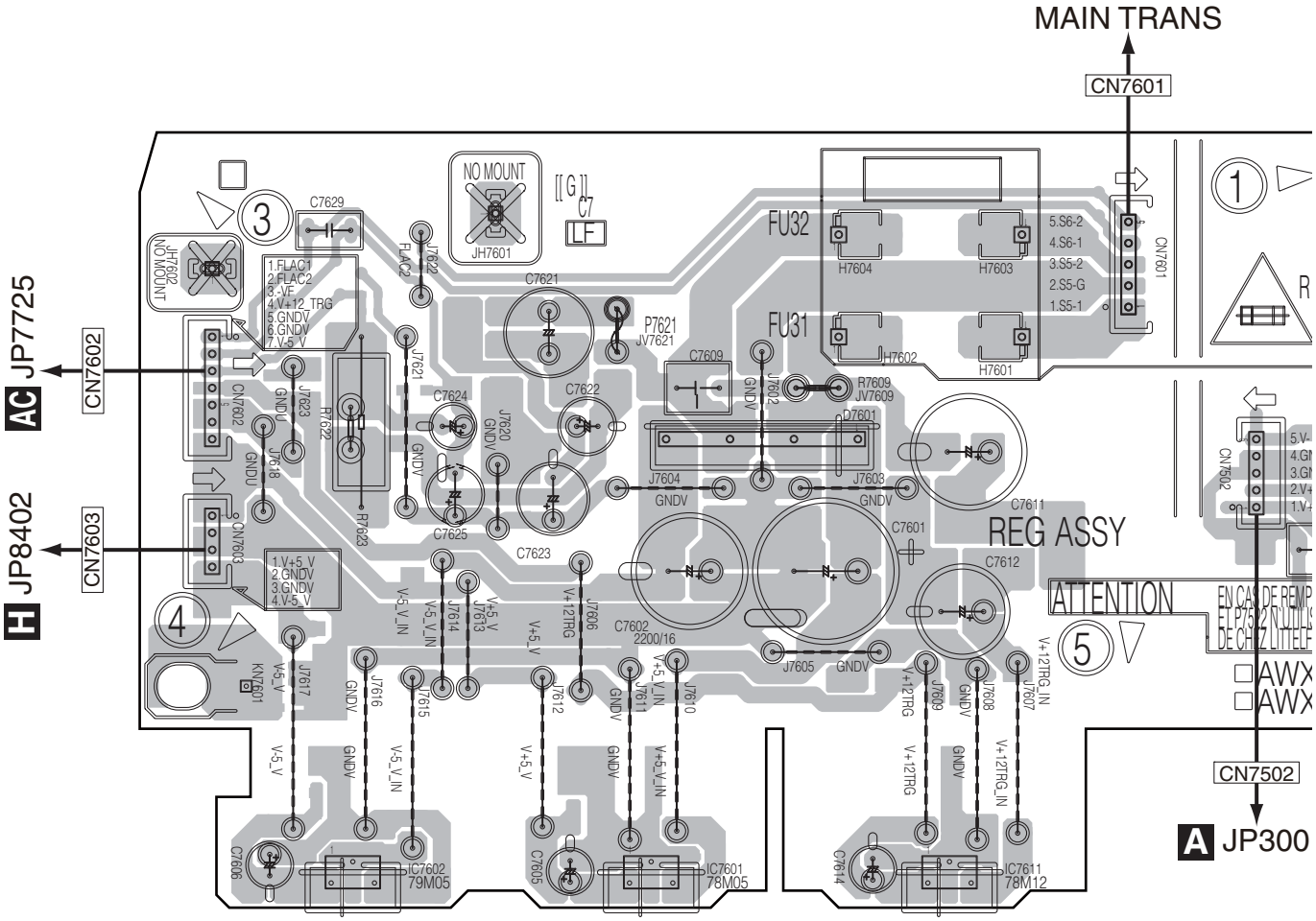
11.15 PRIMARY SHIELD and REG ASSYS

SIDE A

R PRIMARY SHIELD ASSY



S REG ASSY



R S

SIDE A

A

B

C

D

E

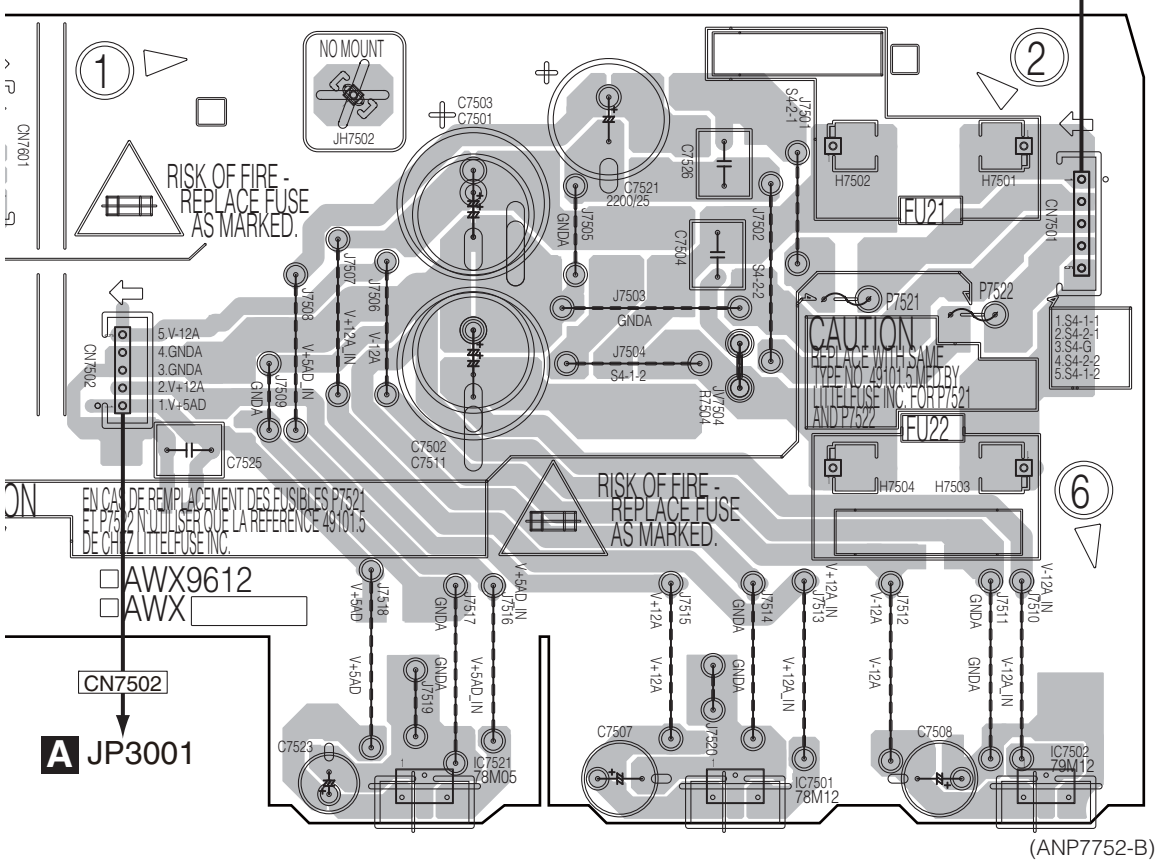
F

RANS

MAIN TRANS

01

CN7501



(ANP7752-B)

IC Q

IC7521
IC7602 IC7501
IC7601 IC7502
IC7611

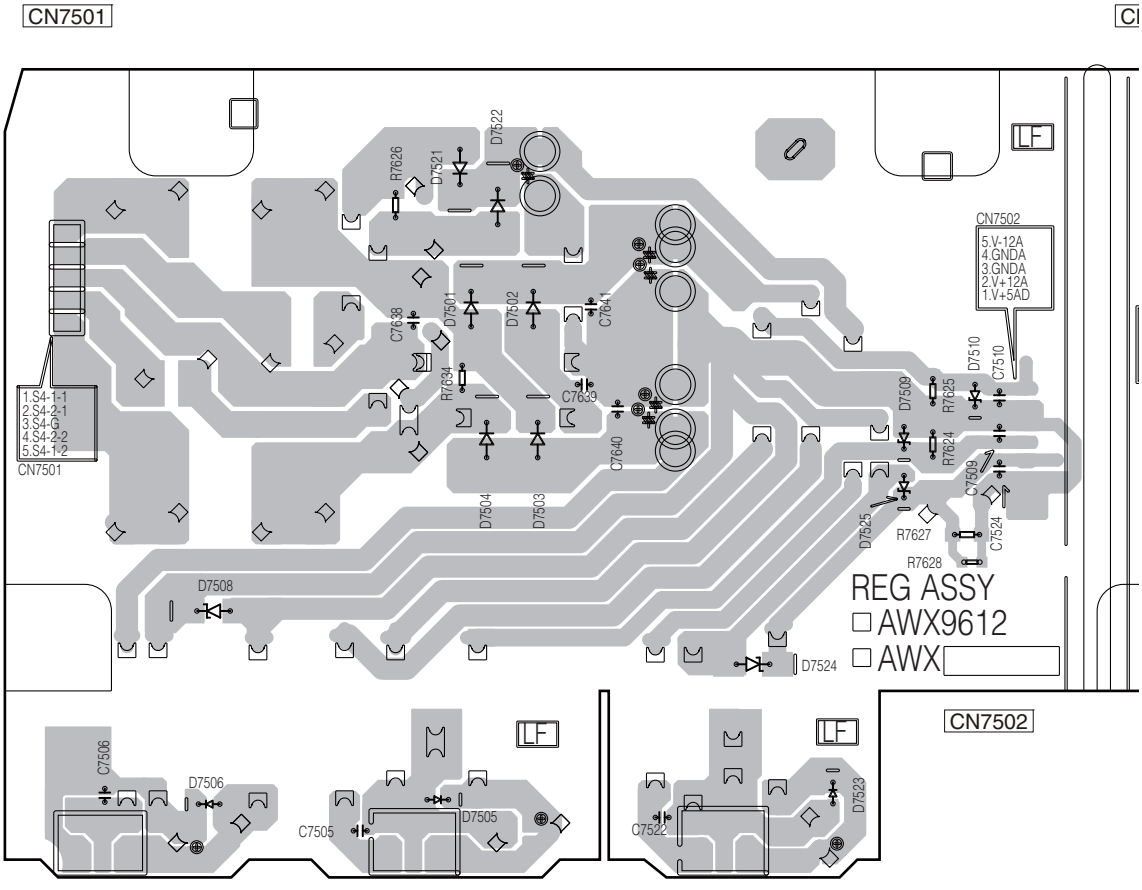
SIDE B

A

B

C

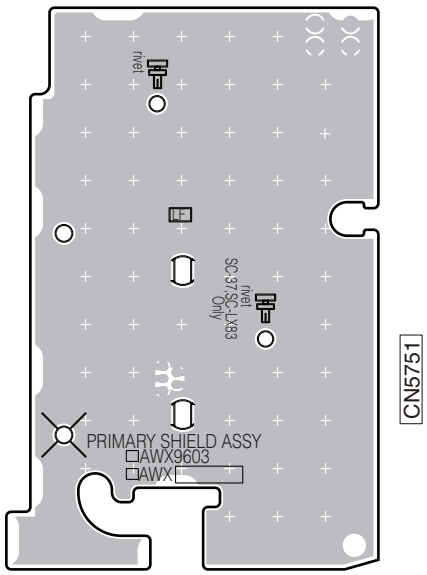
S REG ASSY



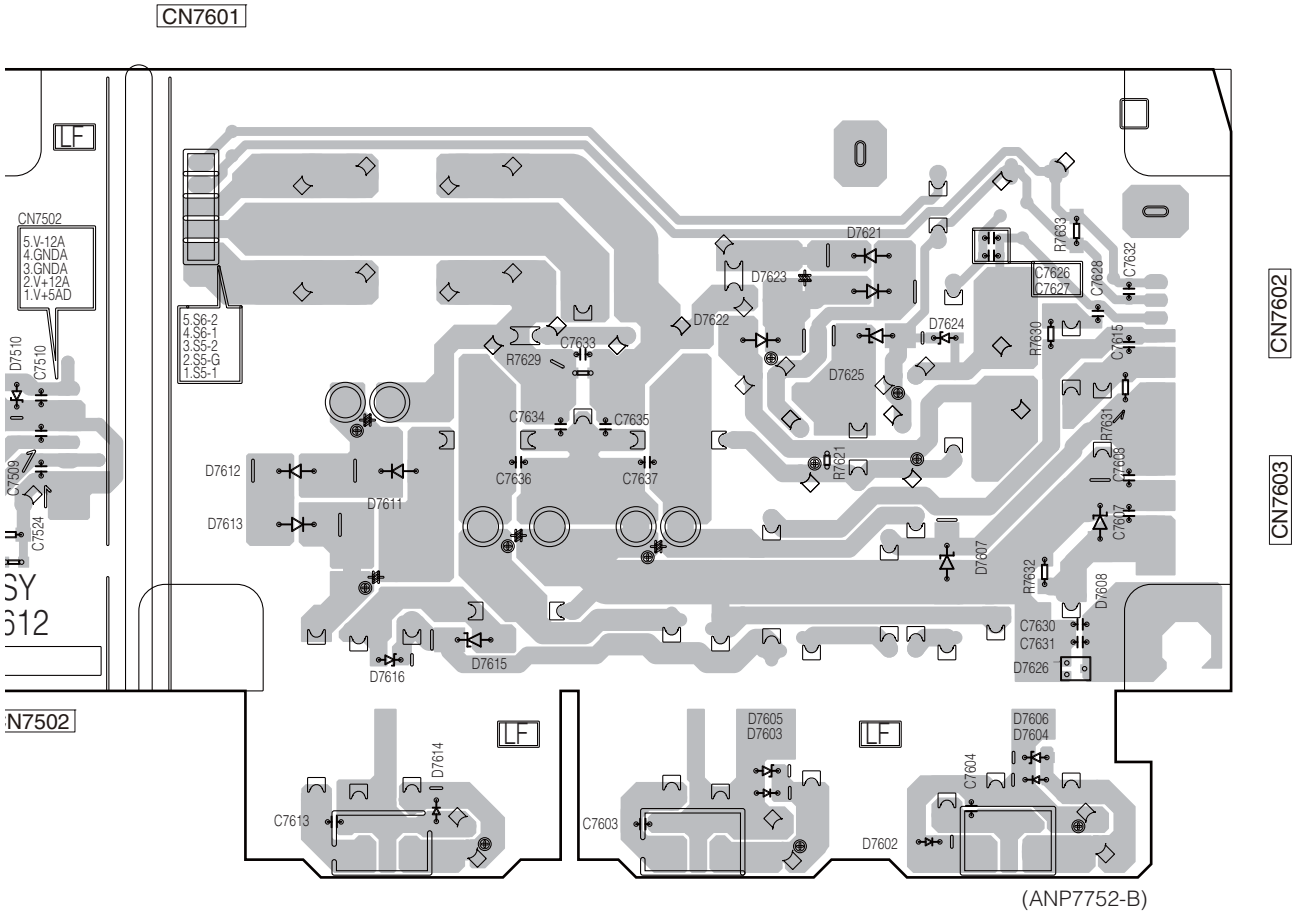
R S

SIDE B

R PRIMARY SHIELD ASSY



(ANP7750-B)

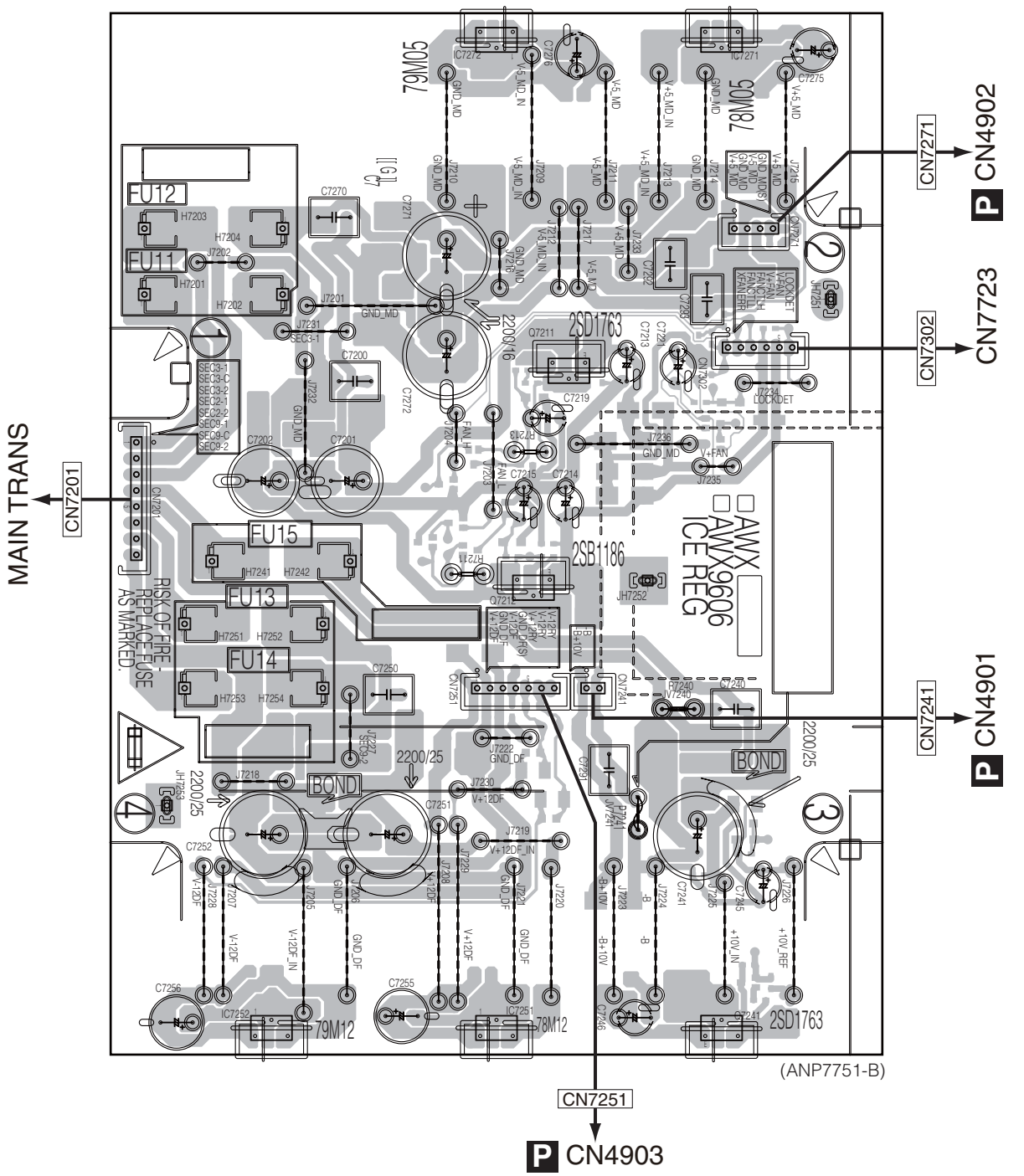


(ANP7752-B)

11.16 ICE REG ASSY

SIDE A **SIDE A**

T ICE REG ASSY

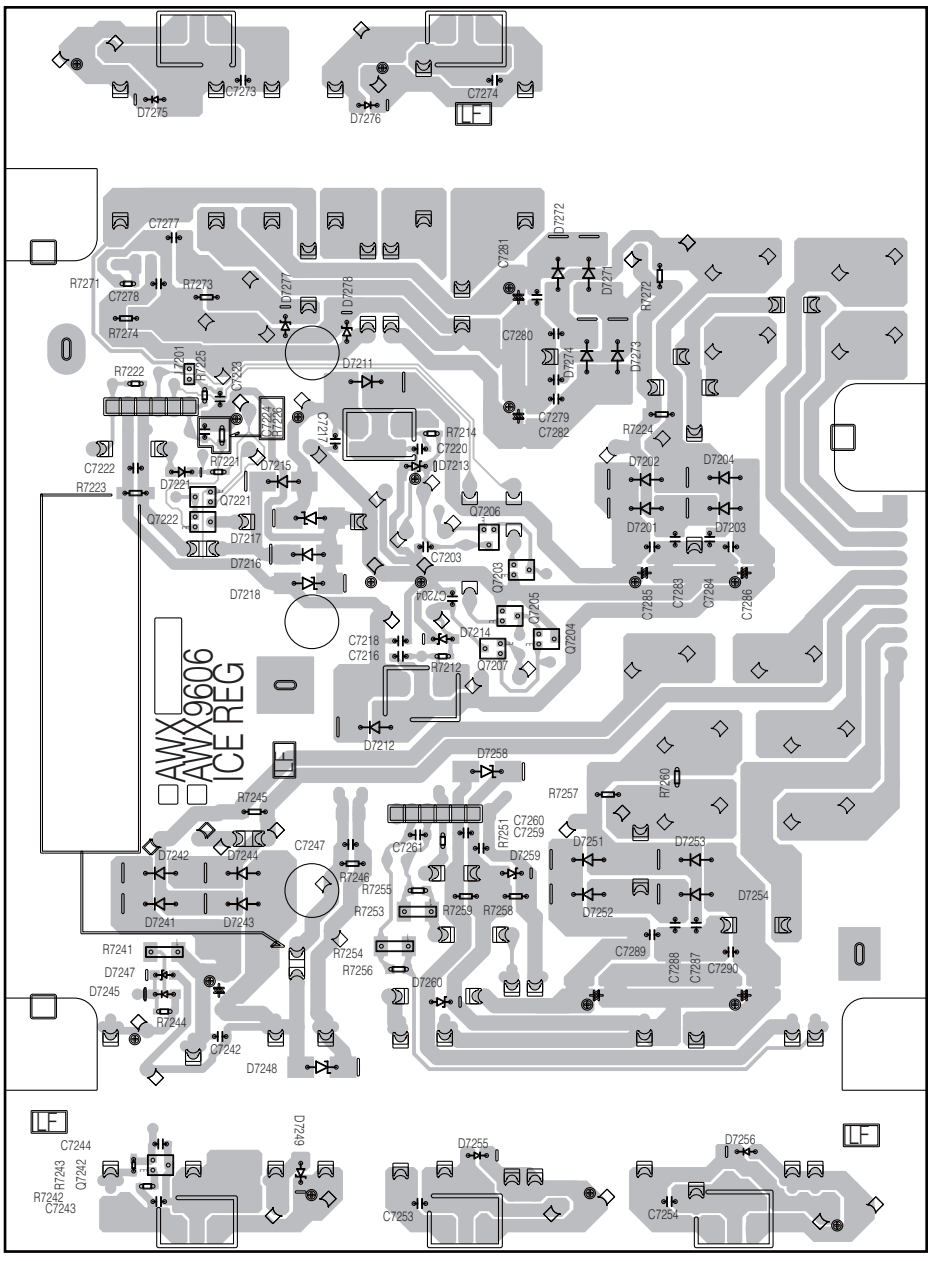


T **T**

SIDE B

SIDE B

T ICE REG ASSY

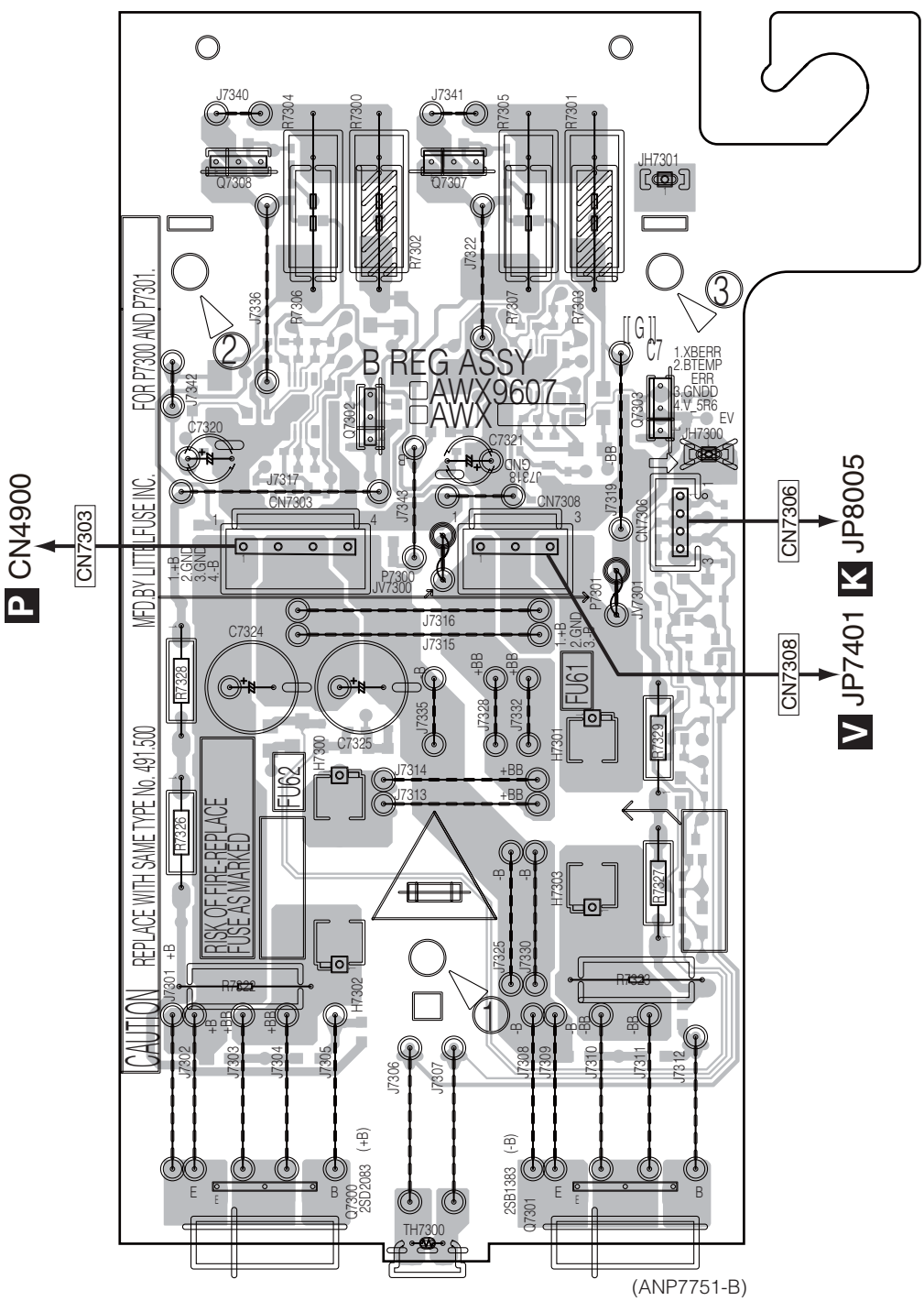


(ANP7751-B)

11.17 B REG ASSY

SIDE A **SIDE A**

U B REG ASSY

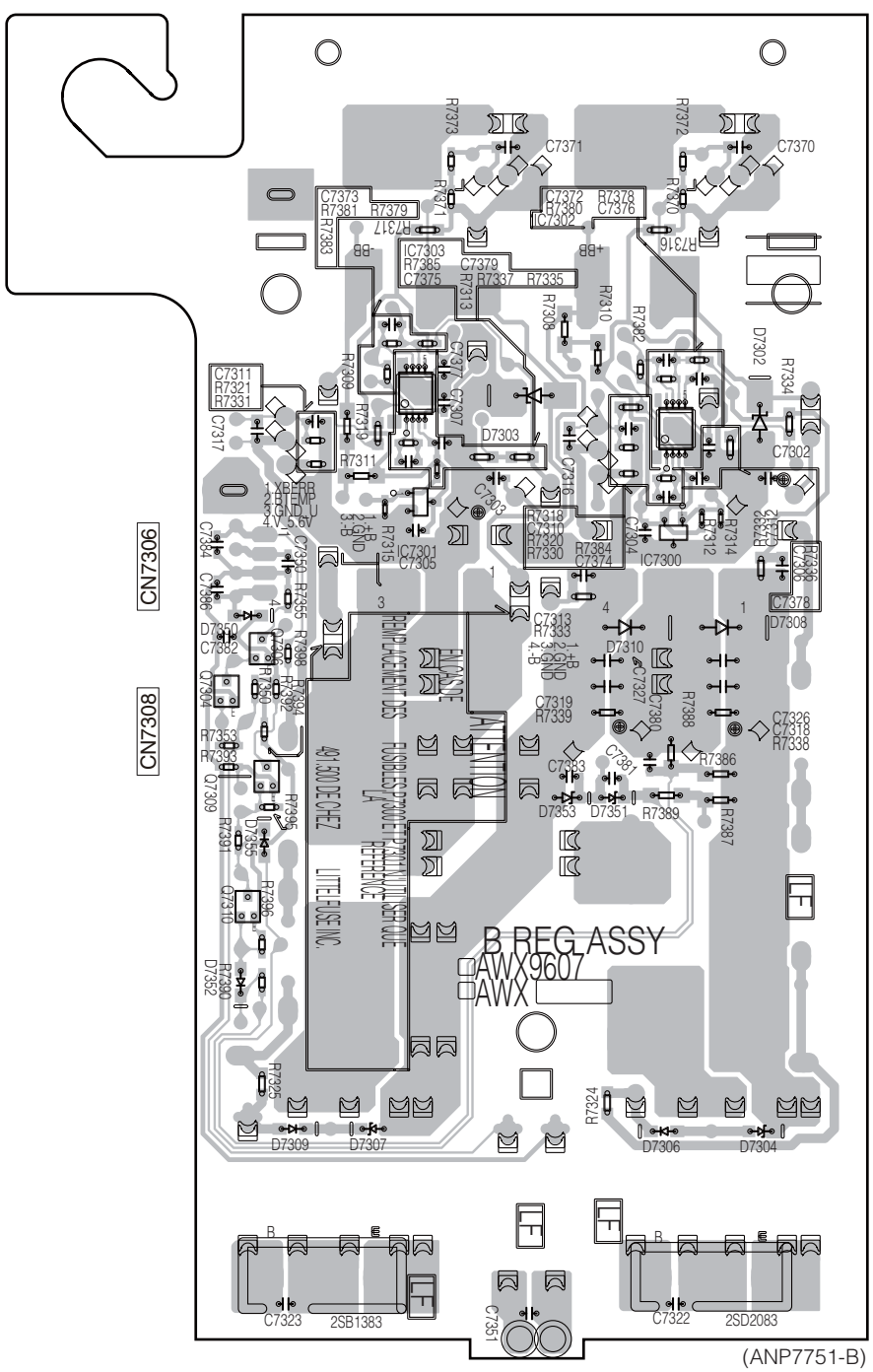


(ANP7751-B)

SIDE B

SIDE B

U B REG ASSY



(ANP7751-B)

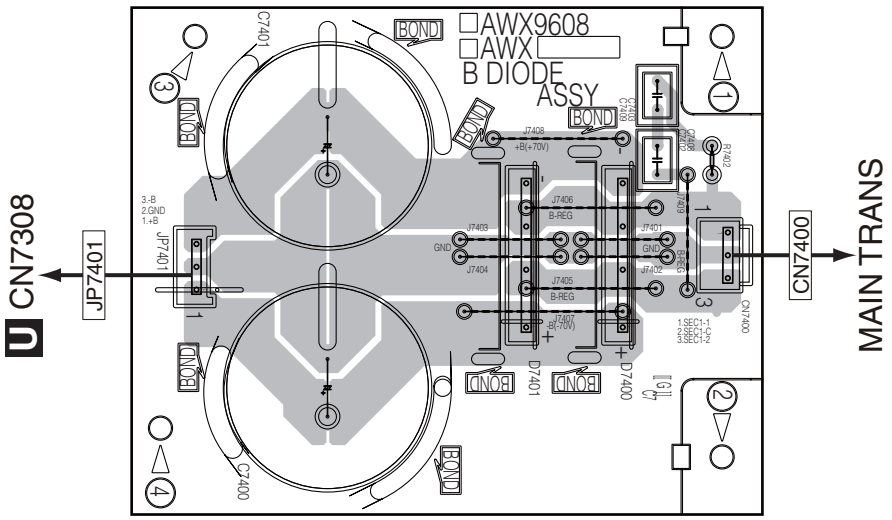
5 6 7 8

11.18 B DIODE and CONNECT ASSYS

SIDE A

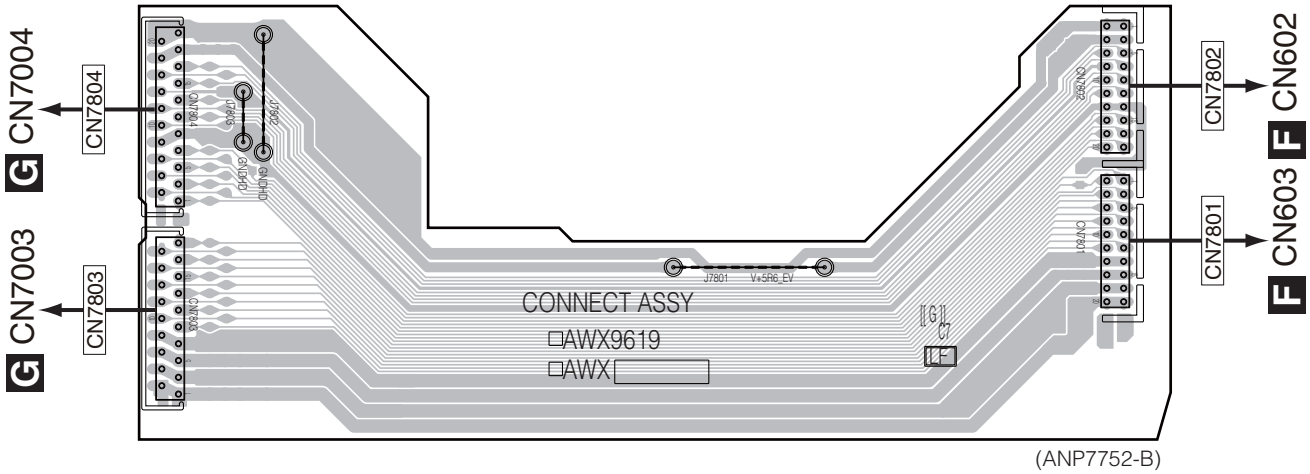
SIDE A

V B DIODE ASSY



(ANP7751-B)

W CONNECT ASSY



(ANP7752-B)

V W

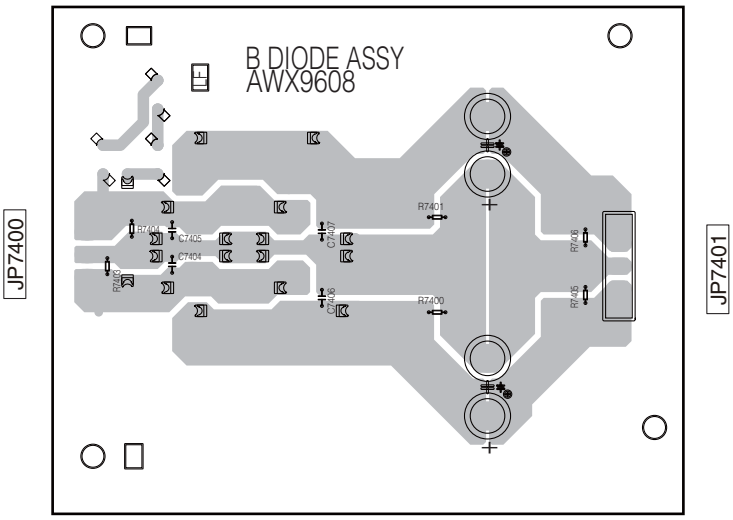
V W

SIDE B

SIDE B

A

V B DIODE ASSY



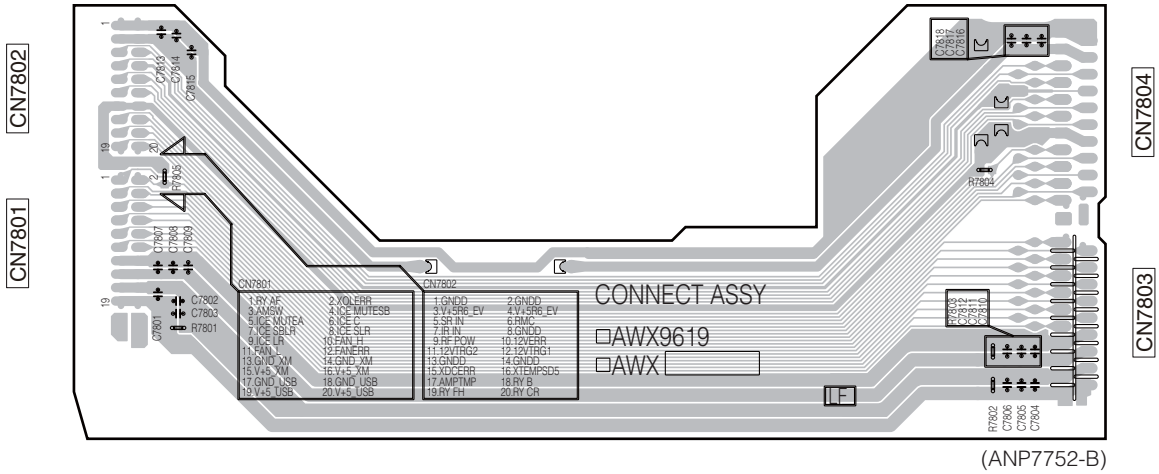
(ANP7751-B)

B

C

W CONNECT ASSY

D



(ANP7752-B)

E

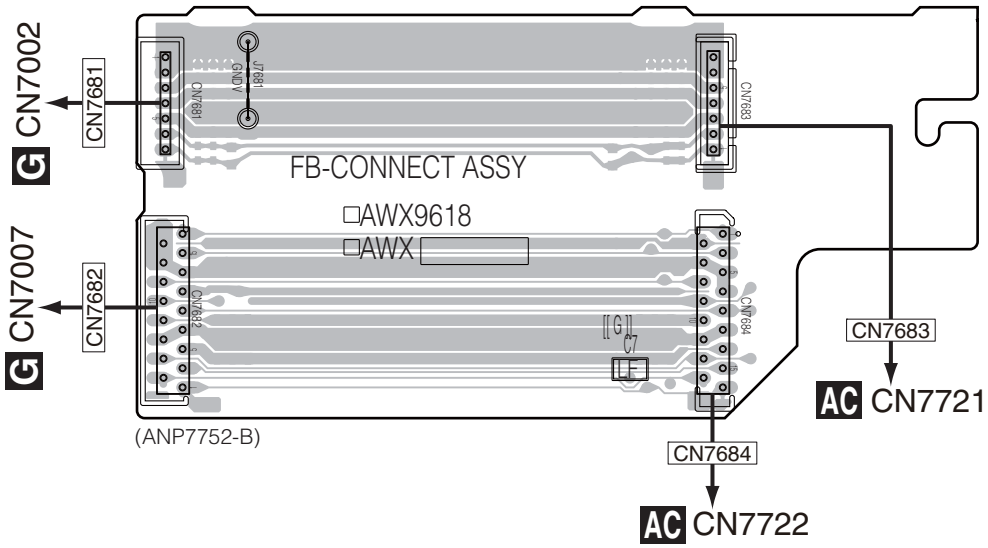
F

11.19 FB-CONNECT, PRE BRIDGE and A-DAC BRIDGE ASSYS

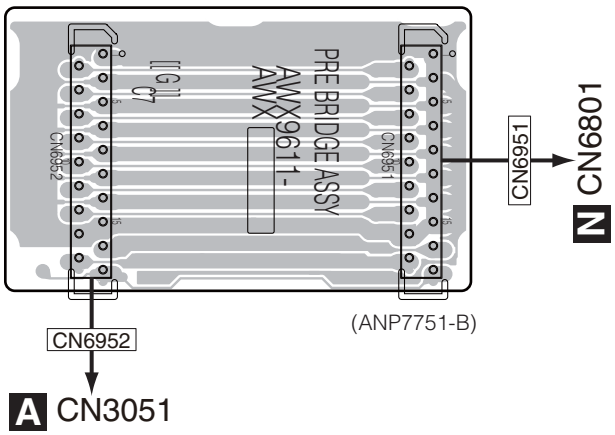
SIDE A

SIDE A

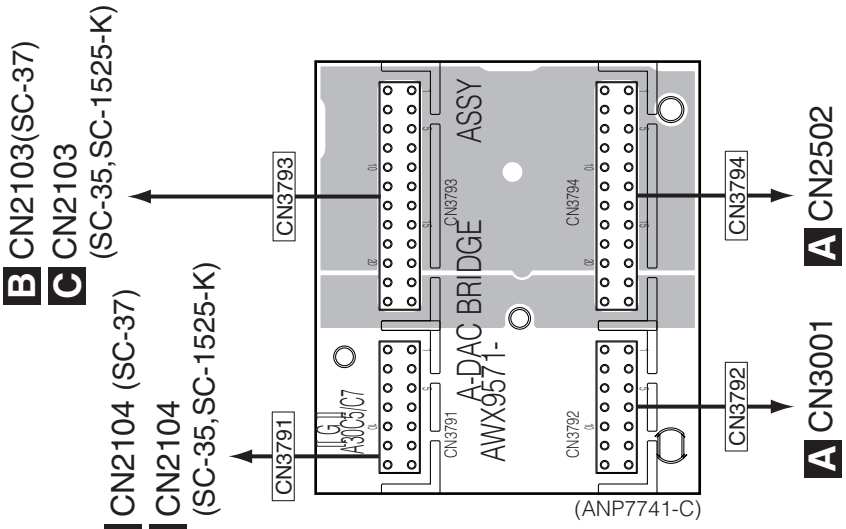
X FB-CONNECT ASSY



Y PRE BRIDGE ASSY



Z A-DAC BRIDGE ASSY



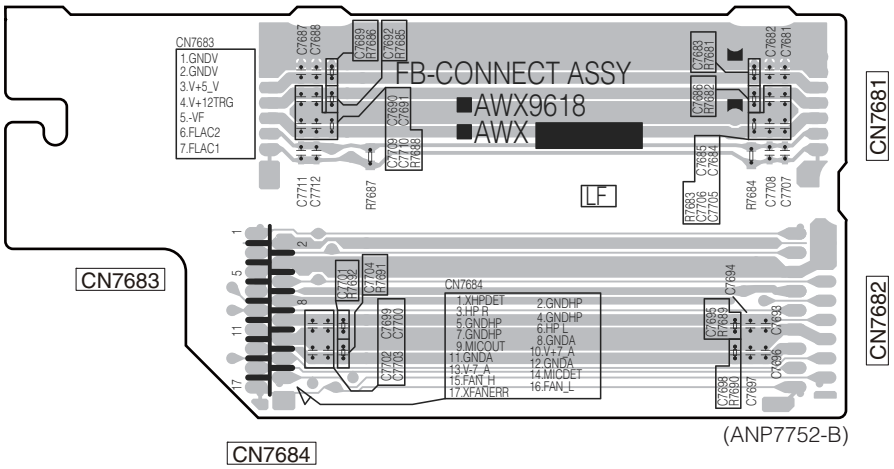
X Y Z

X Y Z

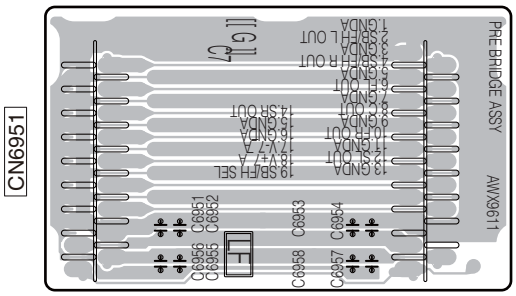
SIDE B

SIDE B

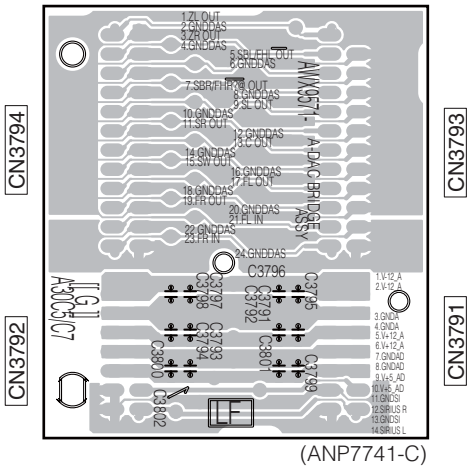
X FB CONNECT ASSY



Y PRE BRIDGE ASSY



Z A-DAC BRIDGE ASSY



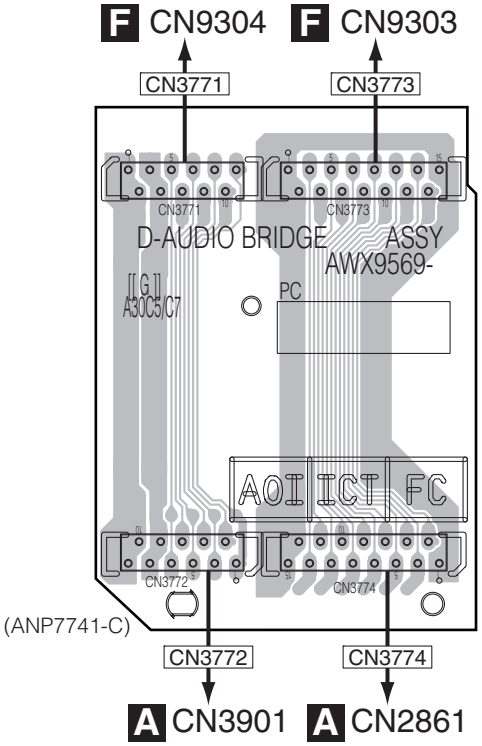
X Y Z

X Y Z

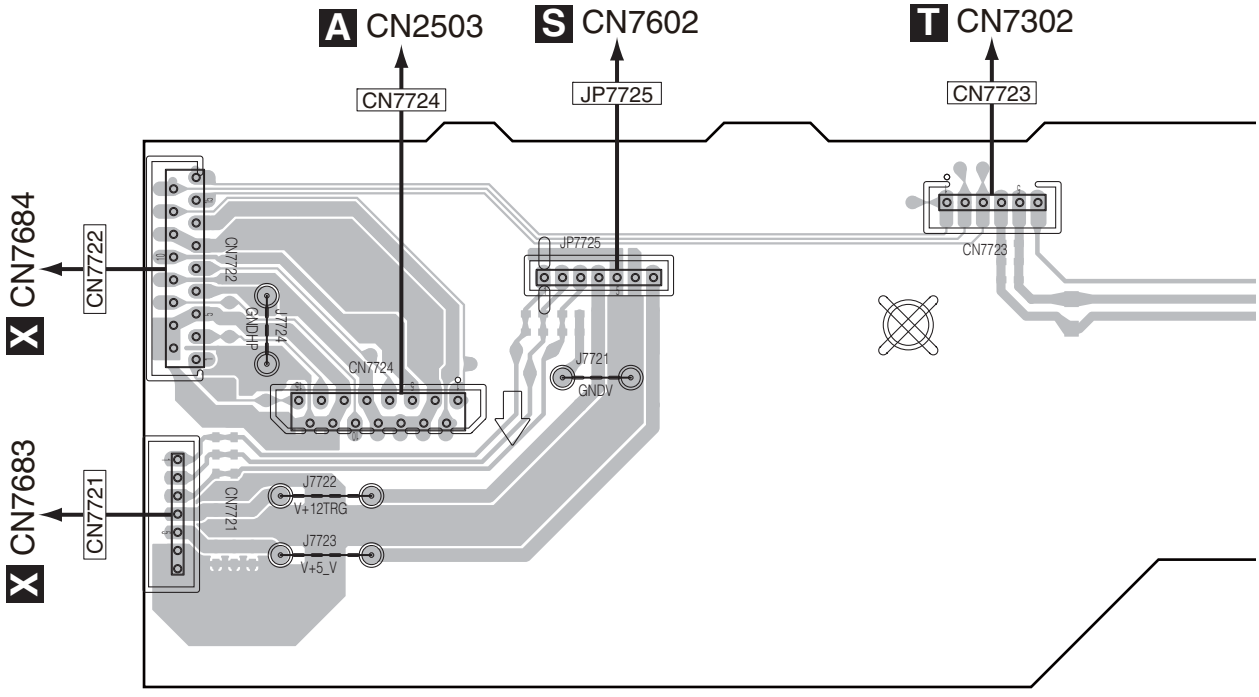
11.20 D-AUDIO BRIDGE, D-DAC BRIDGE and FRONT BRIDGE ASSYS

SIDE A

AA D-AUDIO BRIDGE ASSY

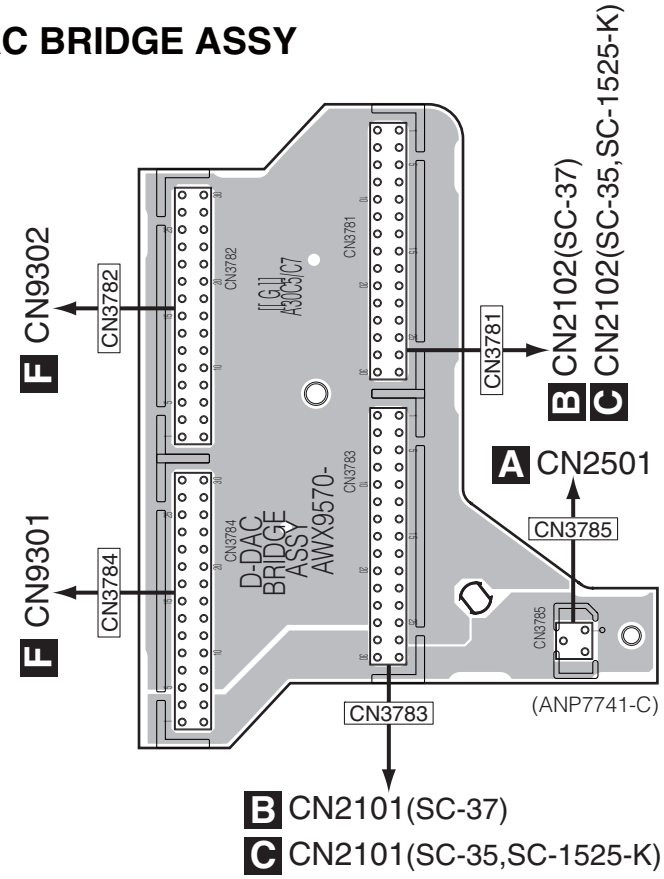


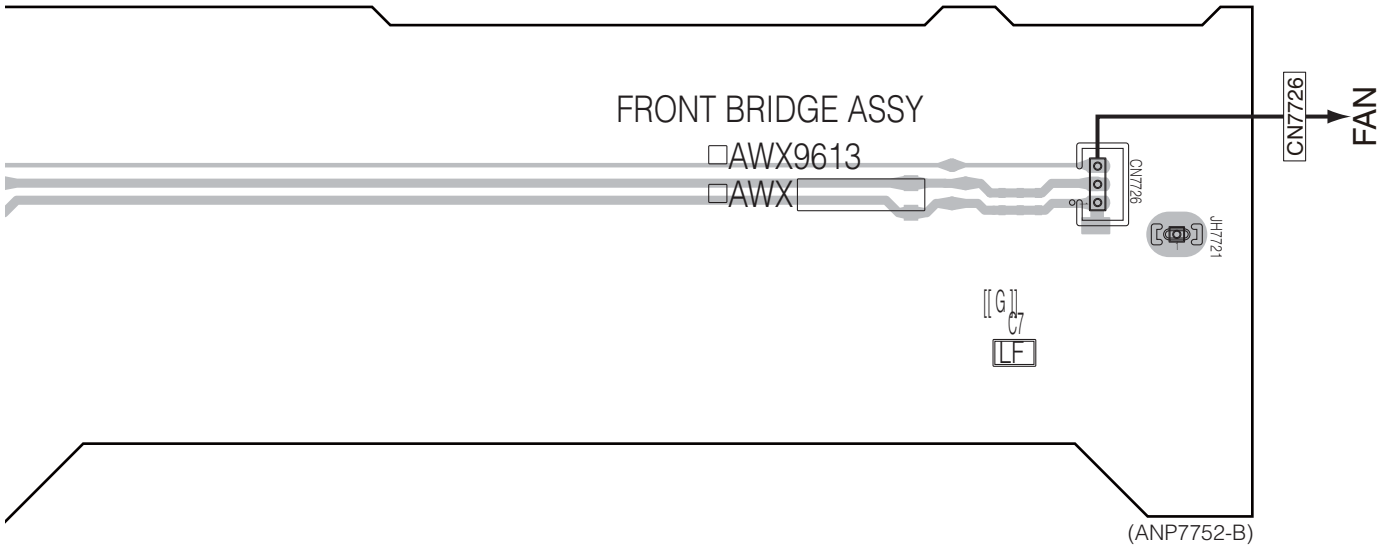
AC FRONT BRIDGE ASSY



AA AB AC

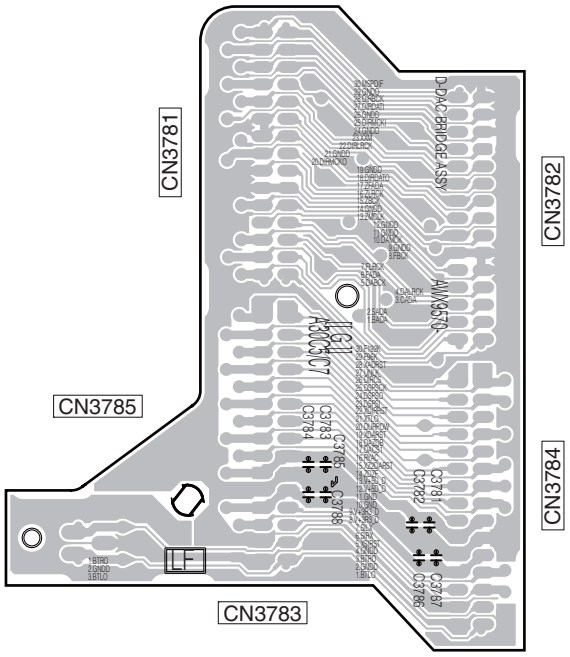
AB D-DAC BRIDGE ASSY





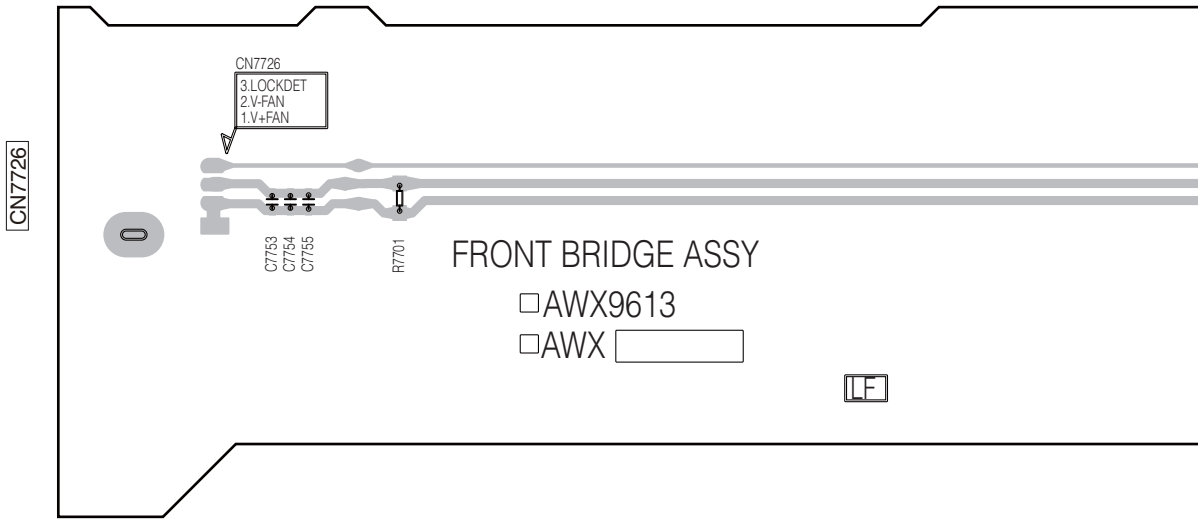
SIDE B

AB D-DAC BRIDGE ASSY



(ANP7741-C)

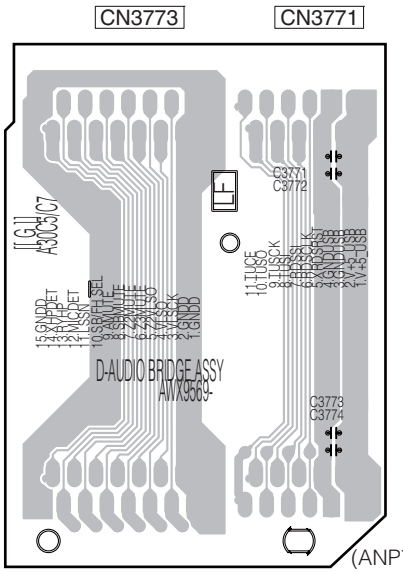
AC FRONT BRIDGE ASSY



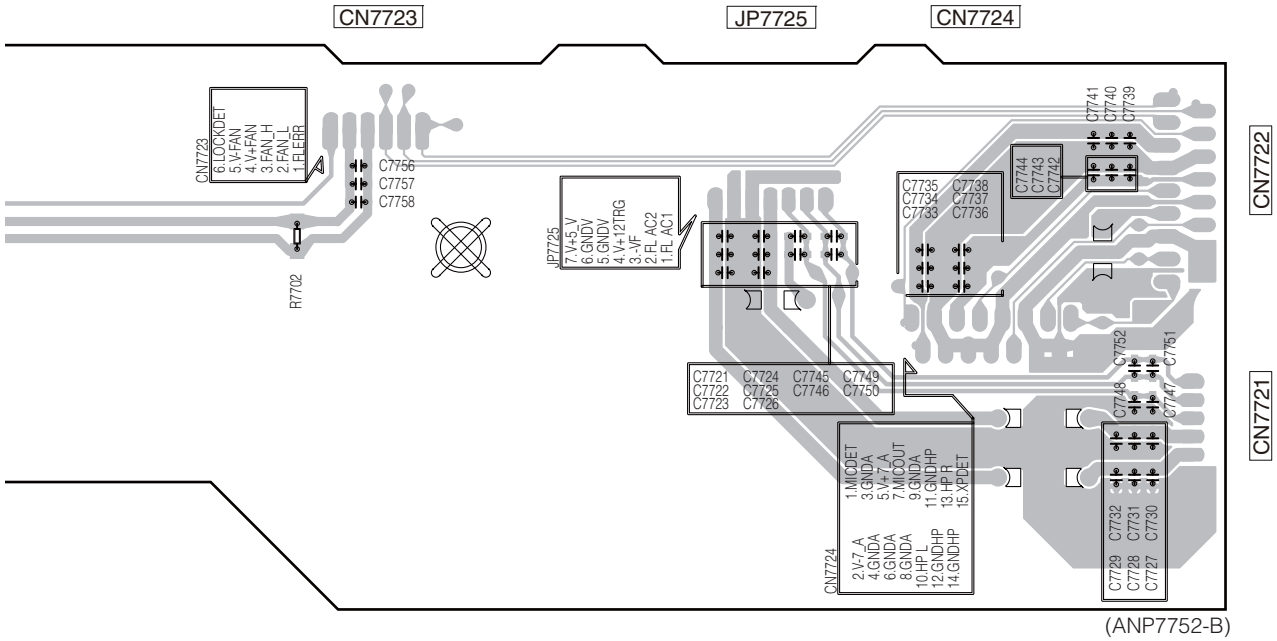
AA AB AC

SIDE B

AA D-AUDIO BRIDGE ASSY



(ANP7741-C)

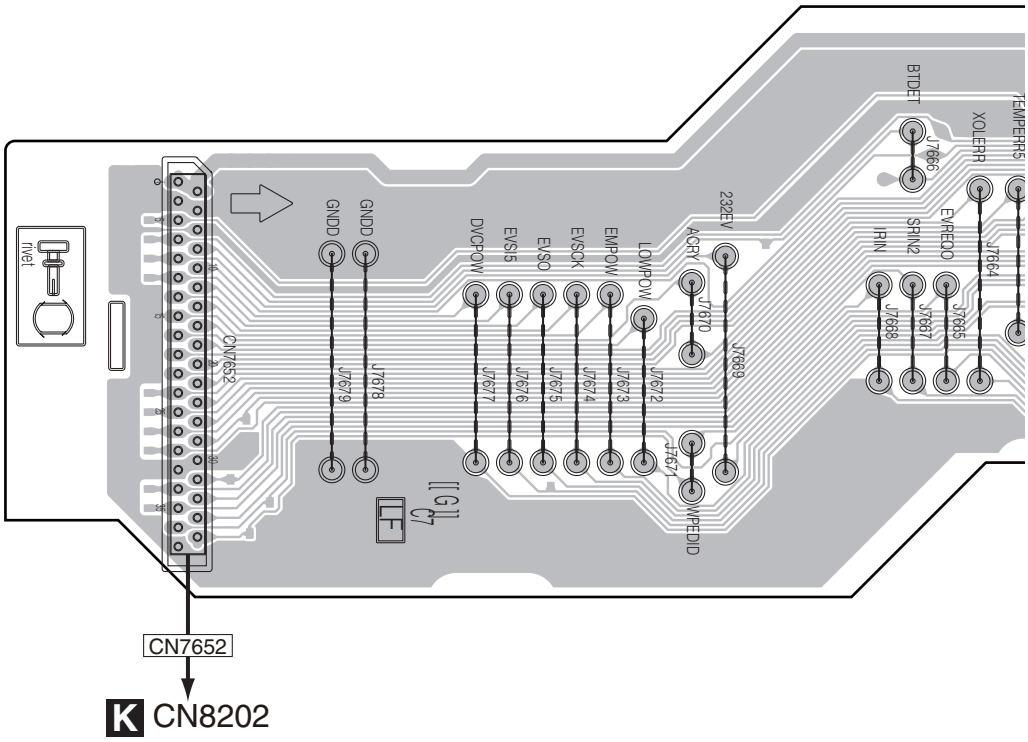


(ANP7752-B)

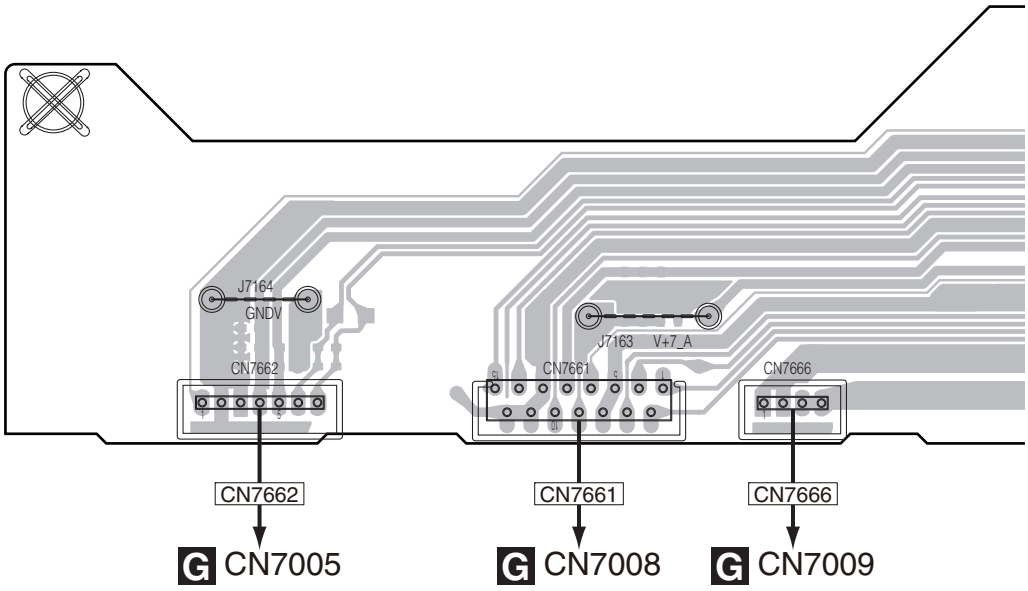
11.21 DISPLAY BRIDGE and F-IN BRIDGE ASSYS

SIDE A

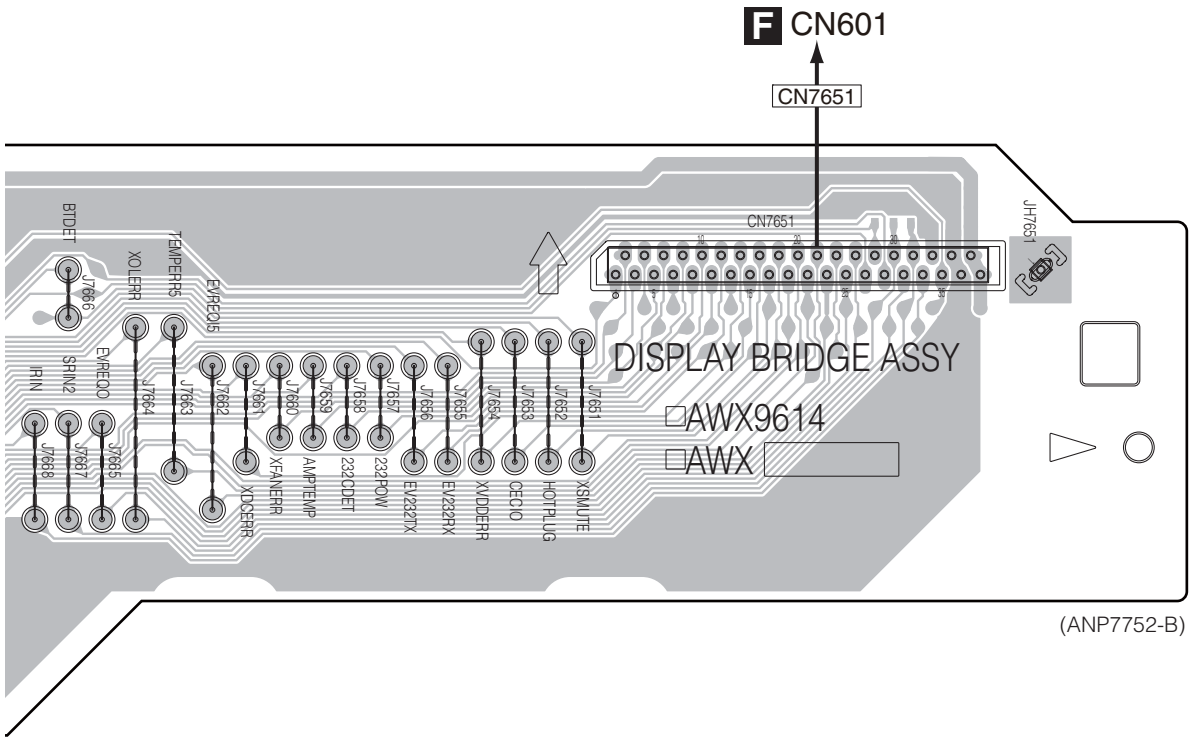
AD DISPLAY BRIDGE ASSY



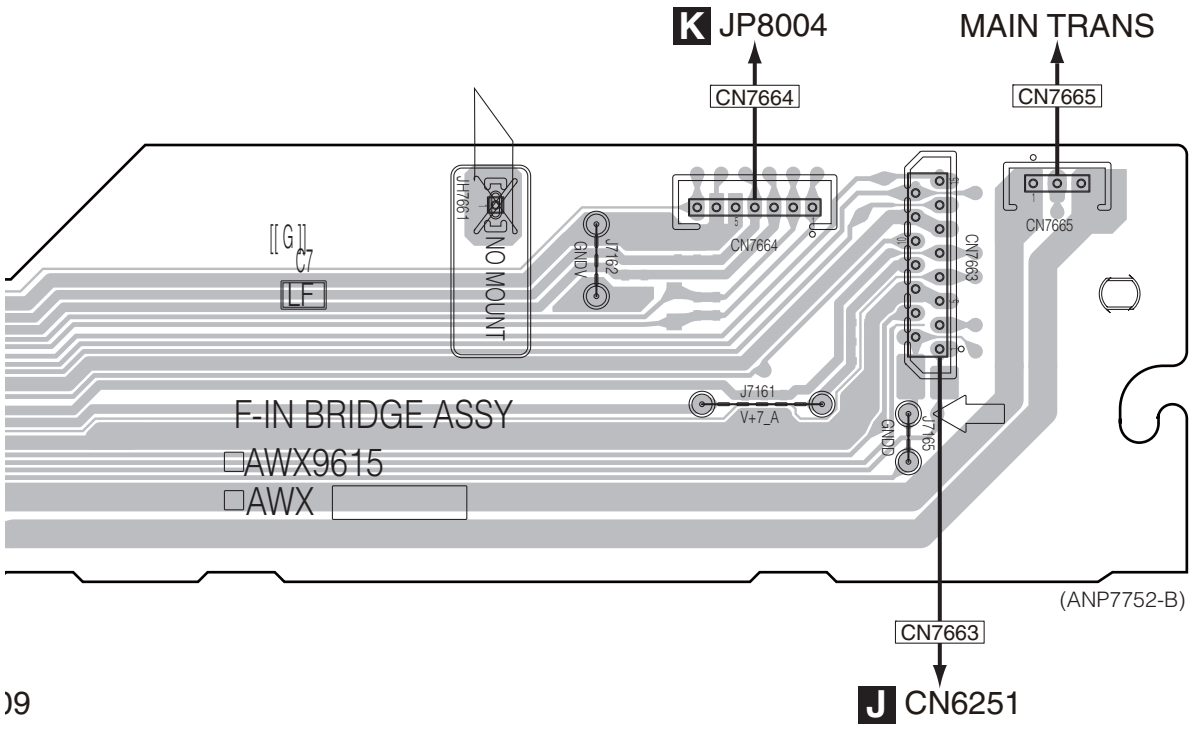
AE F-IN BRIDGE ASSY



SIDE A



(ANP7752-B)



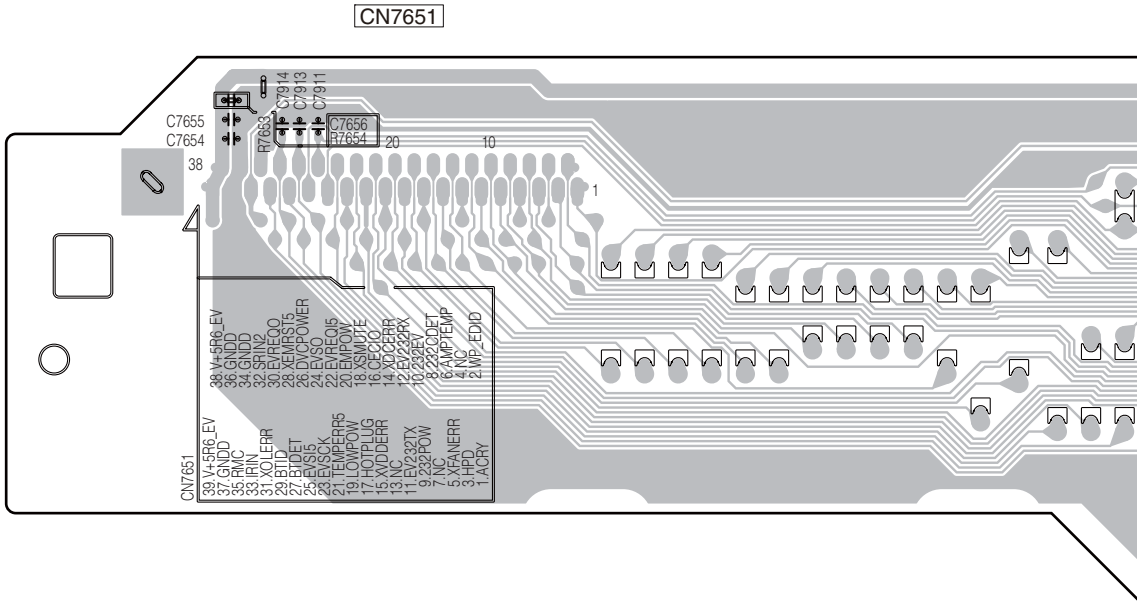
(ANP7752-B)

)9

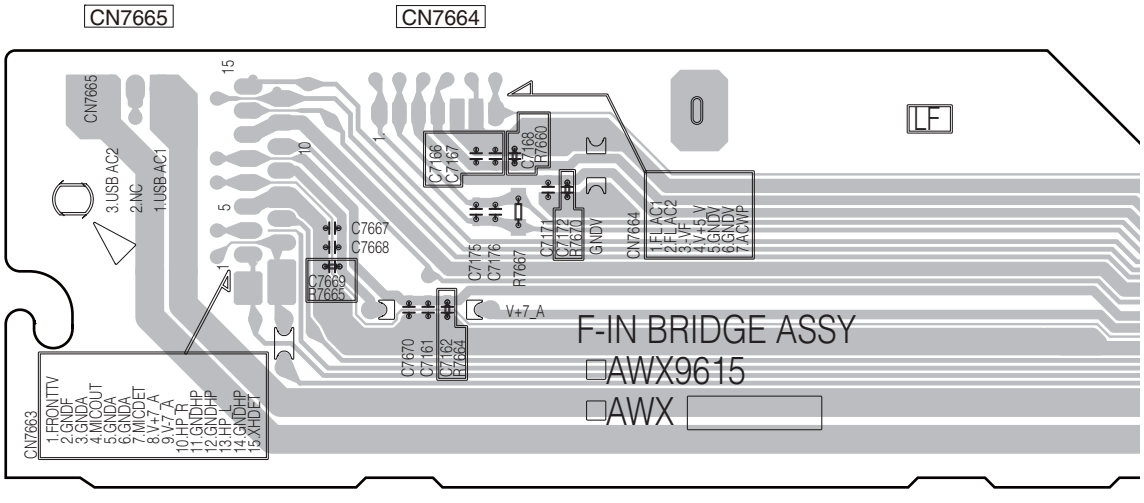
AD AE

SIDE B

AD DISPLAY BRIDGE ASSY

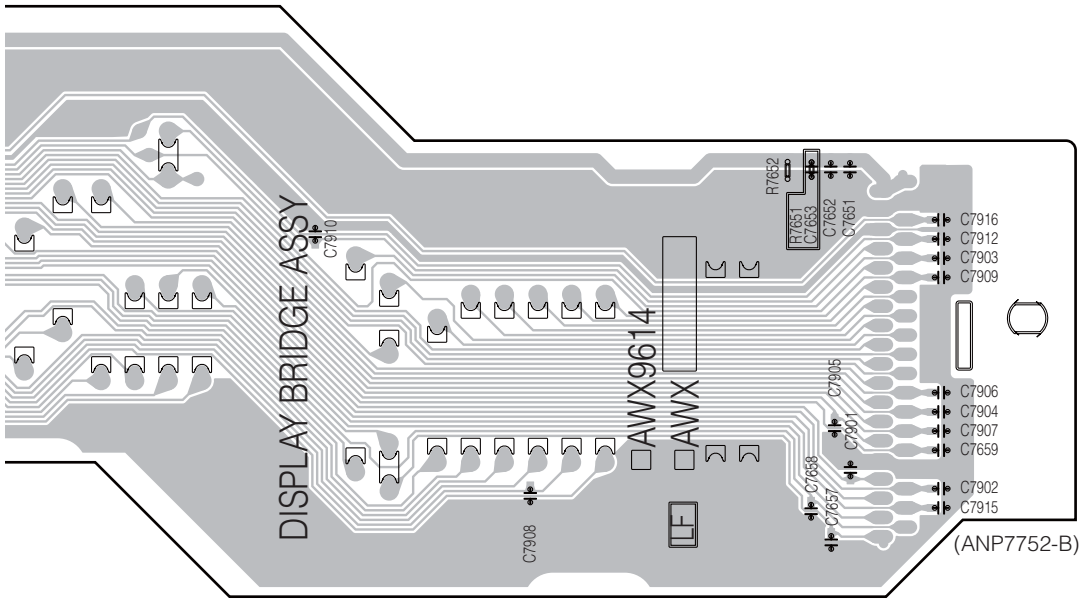


AE F-IN BRIDGE ASSY

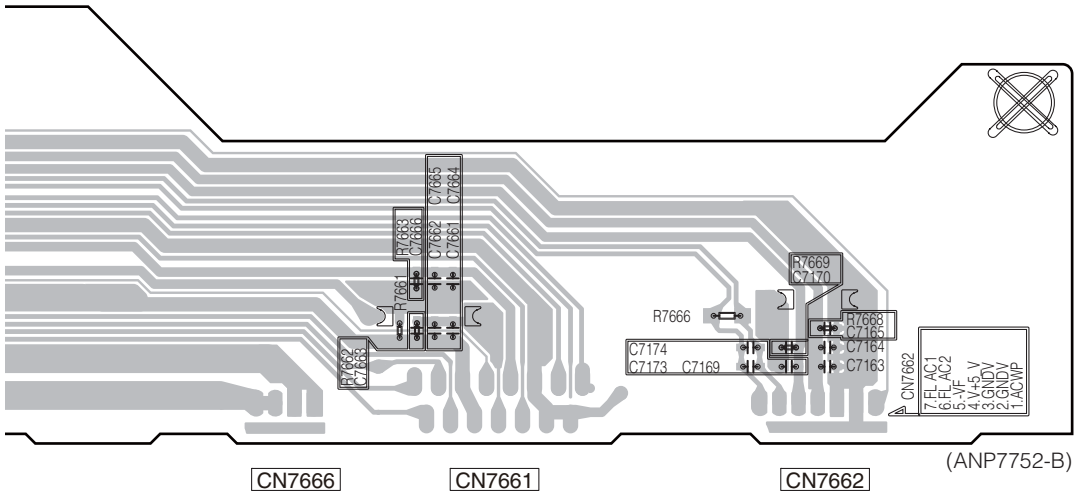


AD AE

SIDE B



CN7652



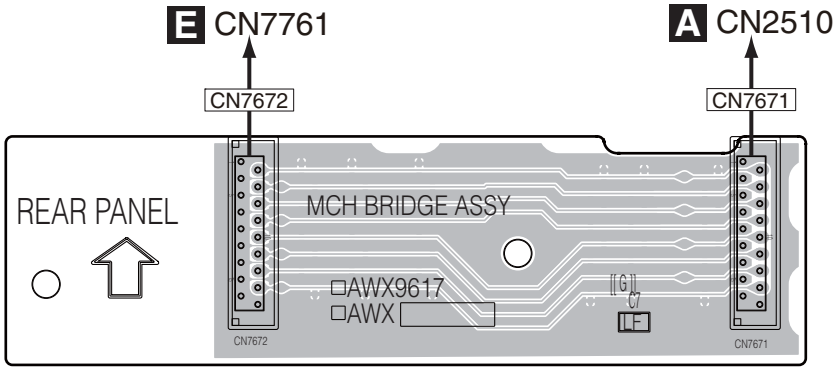
CN7666 CN7661 CN7662

11.22 MCH BRIDGE, FFC GUARD and H GUARD ASSYS

SIDE A

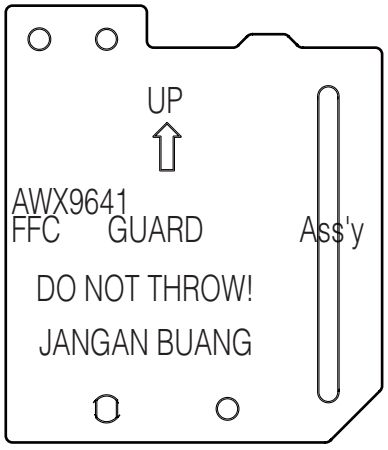
SIDE A

AF MCH BRIDGE ASSY



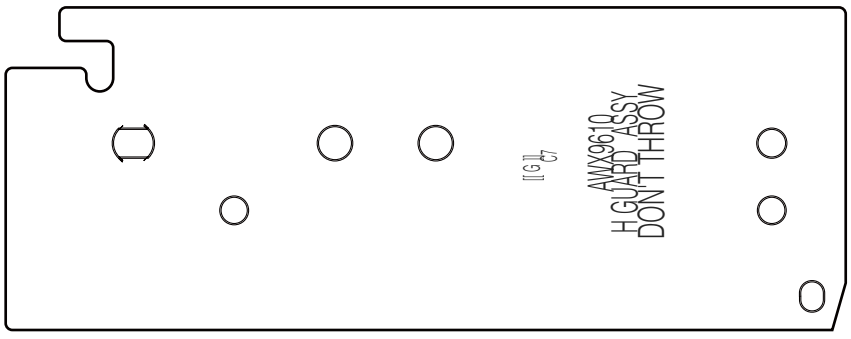
(ANP7752-B)

AG FFC GUARD ASSY



(ANP7749-B)

AH H GUARD ASSY



(ANP7751-B)

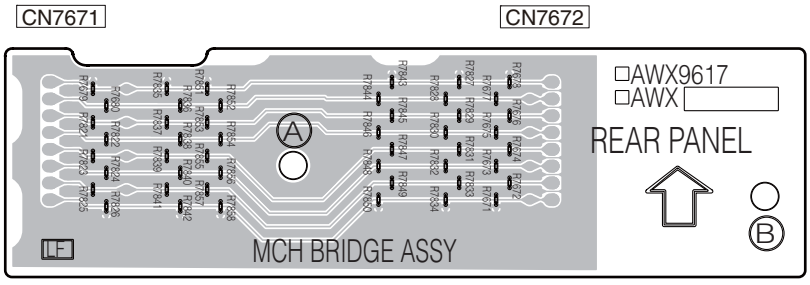
AF AG AH

AF AG AH

SIDE B

SIDE B

AF MCH BRIDGE ASSY



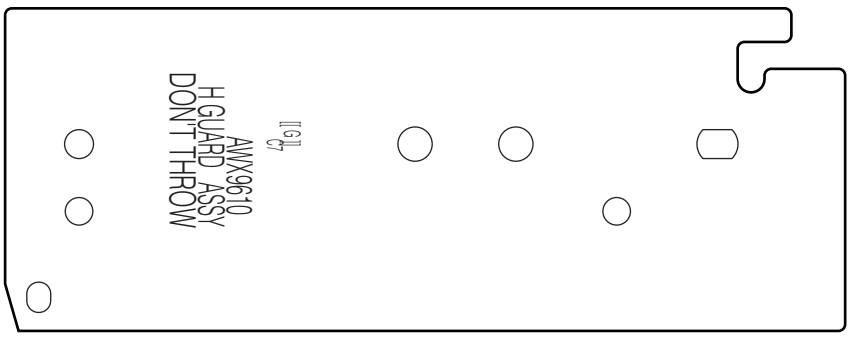
(ANP7752-B)

AG FFC DUARD ASSY



(ANP7749-B)

AH H GUARD ASSY



(ANP7751-B)

AF AG AH

AF AG AH

12. PCB PARTS LIST

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

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

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

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

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

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

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

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	ICEPOWER AMP ASSY (SC-37)	AWH7024
	1	ICEPOWER AMP ASSY (SC-35,SC-1525-K)	AWH7025
NSP	1	ICE INT F-HDMI ASSY	AWM8189
	2	ICE INTERFACE ASSY	AWX9596
	2	FRONT HDMI ASSY	AWX9597
NSP	1	MIC HP ICE ASSY	AWM8190
	2	ICE BUFFER ASSY	AWX9598
	2	MIC HP ASSY	AWX9599
	2	FFC CUARD ASSY	AWX9641
NSP	1	PRIM DISPLAY ASSY (SC-37)	AWM8191
	2	DISPLAY ASSY	AWX9600
	2	VOL ASSY	AWX9601
	2	POWER SW ASSY	AWX9602
	2	PRIMARY SHIELD ASSY	AWX9603
	2	PRIMARY ASSY	AWX9604
NSP	1	PRIM DISPLAY ASSY (SC-35)	AWM8209
	2	DISPLAY ASSY	AWX9686
	2	VOL ASSY	AWX9601
	2	POWER SW ASSY	AWX9602
	2	PRIMARY SHIELD ASSY	AWX9603
	2	PRIMARY ASSY	AWX9604
NSP	1	PRIM DISPLAY ASSY (SC-1525-K)	AWM8210
	2	DISPLAY ASSY	AWX9687
	2	VOL ASSY	AWX9601
	2	POWER SW ASSY	AWX9602
	2	PRIMARY SHIELD ASSY	AWX9603
	2	PRIMARY ASSY	AWX9604
NSP	1	INTERFACE REG ASSY	AWR7085
	2	INTERFACE ASSY	AWX9605
	2	ICE REG ASSY	AWX9606
	2	B REG ASSY	AWX9607
	2	B DIODE ASSY	AWX9608
	2	PRE BRIDGE ASSY	AWX9611
	2	H GUARD ASSY	AWX9610
NSP	1	REG BRIDGE ASSY	AWR7086
	2	REG ASSY	AWX9612
	2	FRONT BRIDGE ASSY	AWX9613
	2	DISPLAY BRIDGE ASSY	AWX9614
	2	F-IN BRIDGE ASSY	AWX9615
	2	MULTI CH IN ASSY	AWX9616
	2	MCH BRIDGE ASSY	AWX9617
	2	FB-CONNECT ASSY	AWX9618
	2	CONNECT ASSY	AWX9619
NSP	1	AUDIO COMPOSITE ASSY	AWR7090
	2	D-AUDIO BRIDGE ASSY	AWX9569
	2	D-DAC BRIDGE ASSY	AWX9570
	2	A-DAC BRIDGE ASSY	AWX9571
	2	AUDIO ASSY	AWX9647
	2	COMPOSITE ASSY	AWX9652
	1	DIGITAL MAIN ASSY (SC-37)	AWX9620
	1	DIGITAL MAIN ASSY (SC-35,SC-1525-K)	AWX9621
	1	DAC HIGH ASSY (SC-37)	AWX9622
	1	DAC LOW ASSY (SC-35,SC-1525-K)	AWX9658
	1	COMPONENT ASSY	AWX9654
	1	FM/AM TUNER UNIT	AXX7267

K DISPLAY ASSY

AWX9600, AWX9686 and AWX9687 are constructed the same except for the following:

Mark	Symbol and Description	AWX9600	AWX9686	AWX9687
	Q8005	LTC124EUB	LTC124EUB	Not used
	Q8007	LTC124EUB	LTC124EUB	Not used
	Q8008	LTC124EUB	LTC124EUB	Not used
	Q8009	LTC124EUB	LTC124EUB	Not used
	Q8010	LTC124EUB	LTC124EUB	Not used
	Q8011	LTC124EUB	LTC124EUB	Not used
	D8001	SLR343BC4T(JKLM)	SLR343BC4T(JKLM)	SLR-343VC(NPQ)
	D8003	SLR343BC4T(JKLM)	SLR343BC4T(JKLM)	SLR-343VC(NPQ)
	D8005	SLR343BC4T(JKLM)	SLR343BC4T(JKLM)	SLR-343VC(NPQ)
	D8007	SLR343BC4T(JKLM)	SLR343BC4T(JKLM)	SLR-343VC(NPQ)

Mark	Symbol and Description	AWX9600	AWX9686	AWX9687
	D8009	SLR343BC4T(JKLM)	SLR343BC4T(JKLM)	Not used
	D8013	SLR343BC4T(JKLM)	SLR343BC4T(JKLM)	Not used
	D8015	Not used	Not used	SLR343BC4T(JKLM)
	D8011	SLR343WBCT(MNPQ)	SLR343WBCT(MNPQ)	Not used
	R8018	RS1/10SR151J	RS1/10SR151J	RS1/10SR681J
	R8019	RS1/10SR151J	RS1/10SR151J	RS1/10SR681J
	R8020	RS1/10SR151J	RS1/10SR151J	RS1/10SR681J
	R8021	RS1/10SR151J	RS1/10SR151J	RS1/10SR681J
	R8022	RS1/10SR151J	RS1/10SR151J	Not used
	R8023	RS1/10SR561J	RS1/10SR561J	RS1/10SR151J
	R8024	RS1/10SR151J	RS1/10SR151J	Not used
	R8078	Not used	Not used	RS1/10SR0R0J
	R8079	Not used	Not used	RS1/10SR0R0J
	R8080	Not used	Not used	RS1/10SR0R0J
	R8081	Not used	Not used	RS1/10SR0R0J
	R8083	Not used	Not used	RS1/10SR0R0J
	R8279	Not used	RS1/10SR473J	RS1/10SR103J
	R8280	RS1/10SR473J	Not used	RS1/10SR393J
	R8301	RS1/10SR101J	RS1/10SR101J	Not used
	C8005	CCSRCH470J50	CCSRCH470J50	Not used
	C8007	CCSRCH101J50	CCSRCH101J50	Not used

P ICEPOWER AMP ASSY

AWH7024 and AWH7025 are constructed the same except for the following:

Mark	Symbol and Description	AWH7024	AWH7025
	JA4101	AKE7150	AKE7142
	JA4301	AKE7149	AKE7141
	JA4501	AKE7149	AKE7141
	JA4901	AKE7149	AKE7141
	C4149	ACH7318	ACH7304
	C4150	ACH7318	ACH7304
	C4249	ACH7318	ACH7304
	C4250	ACH7318	ACH7304
	C4349	ACH7318	ACH7304
	C4350	ACH7318	ACH7304
	C4449	ACH7318	ACH7304
	C4450	ACH7318	ACH7304
	C4549	ACH7318	ACH7304
	C4550	ACH7318	ACH7304
	C4649	ACH7318	ACH7304
	C4650	ACH7318	ACH7304
	C4749	ACH7318	ACH7304
	C4750	ACH7318	ACH7304

PCB PARTS LIST FOR SC-37/UXJCB UNLESS OHERWISE NOTED

Mark	No.	Description	Part No.

A AUDIO ASSY

SEMICONDUCTORS

	IC	2501	BD3473KS2
	IC	2661,2702,2751,2801	NJM4565MD
	IC	2701	TC4066BFN
	IC	3101,3151,3201,3251	NJM4580V
	IC	3221	TC4053BFN
	IC	3271	NJM4580V
	Q	2721,2853,3221,3222	LTC124EUB
	Q	2722	LTA124EUB
	Q	2803,2951,2971,3101	IMX25
	Q	2852	LSA1576UB
⚠	Q	3001	2SD1858X
⚠	Q	3002	2SB1237X
	Q	3102,3151,3152,3201	IMX25
	Q	3202,3251,3252,3271	IMX25
	Q	3272	IMX25
⚠	Q	3901	2SD1664
	D	2691,2701,2702	1SS302
	D	2851,2852	1SS352
	D	3001,3002	HZU7R5(B2)
	D	3902	UDZS10(B)

MISCELLANEOUS

	L	3931 CHIP SOLID INDUCTOR	QTL1013
	JA	2501,2503,2504 PIN JACK(4P)	XKB3017
	JA	2502 2P PIN JACK	AKB7233
	JA	2506,2951,3101 PIN JACK(4P)	XKB3017
	JA	3201 PIN JACK(6P)	XKB3037
	RY	2851 RELAY	CSR1031
	CN	2501 3P SOCKET	XKP3072
	CN	2502 24P SOCKET	AKP7251
	CN	2503 15P CONNECTOR	52044-1545
	CN	2510 18P SOCKET	AKP7123
	CN	2861 15P SOCKET	XKP3078
	CN	3001 14P SOCKET	AKP7248
	CN	3051 19P SOCKET	XKP3080
	CN	3901 11P SOCKET	XKP3076
	CN	3902 CONNECTOR	9604S-11C
	JP	3001 5P HOUSING ASSY	ADX7730

RESISTORS

	R	2819,2820	RD1/4MUF330J
	R	3032	RS1/8SQ822J
	Other Resistors		RS1/10SR###J

CAPACITORS

	C	2505,2506,2525,2526	CEAK220M50
	C	2509,2510,3007,3008	CCSRCH102J50
	C	2545,2546,2587,2588	CEAK220M50
	C	2565,2566,2625,2626	CEAK100M50
	C	2609,2610,2645,2646	CEAK220M50
	C	2611,2612,2821,2822	CCSRCH100D50
	C	2663,2664,2677,2678	CEAK100M50
	C	2669,2670,2811,2812	CEAK470M25
	C	2671,2672	CKSRYB822K50
	C	2673-2676	CKSRYB122K50
	C	2679,2680,3903,3906	CEAK101M16
	C	2681,2682,3905	CKSRYB104K16
	C	2683,2701,2702,2705	CKSRYB103K50
	C	2691,2692,3909	CCSRCH331J50
	C	2693,2694	ACH1479
	C	2695,2696,3055,3056	CFHXSQ103J16
	C	2697,2698,2703,2704	CCSRCH101J50
	C	2706,2761,2762,2803	CKSRYB103K50
	C	2707,2708,2751-2758	CEAK100M50
	C	2731,3105,3106,3155	CEAK220M50
	C	2759,3939,3940	CCSRCH101J50
	C	2760,2903,2904,2907	CEAK100M50
	C	2801,2802,2805,2806	CEAT1R0M50
	C	2804,2815,2816,2981	CKSRYB103K50
	C	2807,2808	CCSRCH221J50
	C	2817,2818	CEAK470M25
	C	2819,2820	CEAT471M16
	C	2851	CEAK101M35
	C	2863-2866,3073,3075	CKSRYB104K50
	C	2908,3025,3026	CEAK100M50
	C	2983,3223,3224,3904	CKSRYB103K50
	C	3001,3002	CEAK2R2M50
	C	3011,3012,3021,3051	CCSRCH102J50
	C	3052,3057,3058,3902	CCSRCH102J50
	C	3053,3054	ACH1480
	C	3074,3076,3077,3080	CCSRCH471J50
	C	3078,3079,3191,3291	CKSRYB104K50
	C	3103,3104,3153,3154	CFHXSQ103J16
	C	3192,3292	CCSRCH471J50
	C	3203,3204,3253,3254	CFHXSQ103J16
	C	3205,3206,3255,3256	CEAK220M50
	C	3273,3274	CFHXSQ103J16
	C	3275,3276,3732	CEAK220M50
	C	3907,3934	CKSRYB103K50
	C	3911-3913	CCSRCH100D50
	C	3932	CCSRCH102J50

B DAC HIGH ASSY(SC-37)

SEMICONDUCTORS

	IC	2001	AK4118AEQ
	IC	2003,2005-2007	RNB4580F
	IC	2004,2016	TC74LCX08FK
	IC	2010	TC74VHC08FK
	IC	2011-2014	AK4480EF
	IC	2021	TC74LCX157FK
	IC	2106	TC74VHC126FK
⚠	IC	2181	NJM2872BF33
	IC	2401,2402,2451	NJM4565MD
	IC	2431	PCM1804DB
	IC	2471	AK4388ET
	D	2130	1SS302
	D	2431,2432	1SS301
	D	2433,2434	DAP202U

Mark	No.	Description	Part No.
MISCELLANEOUS			
L	2004-2010	CHIP SOLID INDUCTOR	QTL1013
L	2012-2019	CHIP SOLID INDUCTOR	QTL1013
L	2102,2431	CHIP SOLID INDUCTOR	QTL1013
L	2442,2471	CHIP SOLID INDUCTOR	QTL1013
L	2472,2473	INDUCTOR	CTF1379
JA	2001	PIN JACK(3P)	AKB7205
JA	2002-2004	OPT. LINK IN	AKS7001
JA	2006	OPT. LINK OUT	AKS7002
JA	2101	SOCKET	BKP1127
KN	2201,2202	SCREW PLATE	VNE1948
CN	2101,2102	SOCKET(30PL)	BKP1047
CN	2103	24P SOCKET	AKP7251
CN	2104	14P SOCKET	AKP7248
RESISTORS			
R	2007-2010,2012		RS1/16SS101J
R	2011,2022,2223,2224		RS1/16SS221J
R	2013,2204,2469		RS1/16SS331J
R	2014-2016,2021		RS1/16SS101J
R	2017,2020,2230		RS1/16SS0R0J
R	2018,2116-2118,2120		RS1/16SS220J
R	2019		RS1/16SS680J
R	2023-2025,2027,2049		RS1/16SS101J
R	2026,2470		RS1/16SS471J
R	2028		RS1/16SS1002F
R	2029,2048,2084,2085		RS1/16SS470J
R	2086,2088,2089,2115		RS1/16SS101J
R	2087,2220,2240		RS1/16SS470J
R	2119,2129,2205,2206		RS1/16SS101J
R	2207,2210		RS1/16SS681J
R	2208,2209,2211-2217		RS1/16SS101J
R	2221,2222,2238		RS1/16SS101J
R	2234-2237,2239,2431		RS1/16SS0R0J
R	2242-2251,2433-2435		RS1/16SS101J
R	2252-2254		RS1/16SS470J
R	2263,2472		RS1/16SS221J
R	2432		RS1/16SS100J
R	2437-2439,2441,2442		RS1/16SS101J
R	2440,2446-2449		RS1/16SS0R0J
R	2471,2480,2481,2485		RS1/16SS101J
R	2473,2474		RS1/16SS102J
R	2487,2488		RS1/16SS101J
R	2489		RS1/16SS151J
R	2490		RS1/16SS820J
R	2491-2493		RS1/8SQ105J
R	2498,2499		RS1/8SQ225J
	Other Resistors		RS1/10SR###J
CAPACITORS			
C	2002,2005,2008,2124		CKSRYB103K50
C	2003,2006,2009-2015		CKSRYB104K16
C	2016,2073,2105,2131		CKSSYB104K16
C	2017,2059,2089,2134		CEAK221M16
C	2018,2021,2024,2440		CEAK101M16
C	2019,2022,2029,2032		CCSSCH471J50
C	2020,2023,2027,2028		CKSSYB104K10
C	2026,2065-2067		CKSRYB474K16
C	2030		CEAK221M10
C	2033,2047,2106,2176		CKSSYB104K10

Mark	No.	Description	Part No.
C	2034,2041,2074,2075		CCSRCH102J50
C	2042-2045,2076,2078		CCSRCH331J50
C	2046,2112,2227		CCSSCH471J50
C	2048,2049,2080,2081		CFHXSQ103J16
C	2054		CCSSCH101J50
C	2055		ACH7273
C	2070,2071,2086,2087		CFHXSQ472J16
C	2077,2079		CCSRCH221J50
C	2082,2083,2098,2099		CEAK100M50
C	2090,2091,2107,2108		CCSRCH102J50
C	2092-2095,2109-2111		CCSRCH331J50
C	2096,2097,2114,2115		CFHXSQ103J16
C	2102,2103,2120,2121		CFHXSQ472J16
C	2113		CCSRCH331J50
C	2116,2117,2405-2408		CEAK100M50
C	2122,2178,2401,2402		CKSRYB104K16
C	2126,2129,2130,2188		CKSRYB103K50
C	2127,2128,2451,2452		CEAT220M50
C	2132,2135,2136,2139		CKSSYB104K16
C	2133,2138,2140,2142		CEAK470M25
C	2137,2159,2161,2163		CEAK221M16
C	2141,2144,2146,2148		CKSSYB104K16
C	2143,2145,2147,2149		CEAK470M25
C	2150,2152,2154,2156		CKSSYB104K16
C	2151,2153,2155,2157		CEAK470M25
C	2158,2160,2162,2164		CKSSYB104K16
C	2165		CEAK221M16
C	2166,2168,2170,2172		CKSSYB104K16
C	2167,2169,2171,2173		CEAK470M25
C	2174,2175		CCSSCH102J50
C	2179,2184,2187,2432		CEAK101M35
C	2182		CKSQYB225K10
C	2183,2429,2482		CKSSYB104K10
C	2190,2192,2195,2251		CKSRYB103K50
C	2196,2197,2411,2412		CFHXSQ103J16
C	2252,2434,2439,2464		CKSRYB103K50
C	2253-2276,2281,2283		CCSSCH471J50
C	2277,2278		CCSSCH100D50
C	2279,2280,2282		CKSSYB104K16
C	2284-2288,2290		CKSSYB104K16
C	2289,2291,2481,2483		CCSSCH471J50
C	2292-2294		CKSSYB104K16
C	2403,2404		DCH1201
C	2413,2414		CCSRCH101J50
C	2415,2416		CFHXSQ103J16
C	2430		CCSSCH331J50
C	2433,2435,2438		CKSRYB104K16
C	2436,2437,2473,2474		CEAK470M25
C	2441-2443,2446,2480		CKSRYB104K16
C	2445,2455,2456,2475		CCSRCH471J50
C	2453,2454		CCSRCH391J50
C	2457,2458		CKSRYB104K25
C	2459,2460		CEAT100M50
C	2472,2476		CKSRYB104K50
C	2477		CKSRYB105K10
C	2478		CKSRYB103K50
C	2484		CCSSCH471J50
C	2489		CCSRCH471J50

Mark	No.	Description	Part No.

C DAC LOW ASSY(SC-35,SC-1525-K)

SEMICONDUCTORS

	IC	2001	AK4118AEQ
	IC	2004	TC74LCX08FK
	IC	2010	TC74VHC08FK
	IC	2011	TC74LCX157FK
	IC	2106	TC74VHC126FK
⚠	IC	2181	NJM2855DL1-33
	IC	2201	PCM1691DCA
	IC	2231,2281,2331,2381	NJM4565MD
	IC	2401,2402,2451	NJM4565MD
	IC	2431	PCM1804DB
	IC	2471	AK4388ET
	D	2130	1SS302
	D	2431,2432	1SS301
	D	2433,2434	DAP202U

MISCELLANEOUS

	L	2004-2009 CHIP SOLID INDUCTOR	QTL1013
	L	2102,2201 CHIP SOLID INDUCTOR	QTL1013
	L	2202,2431 CHIP SOLID INDUCTOR	QTL1013
	L	2442,2471 CHIP SOLID INDUCTOR	QTL1013
	L	2472,2473 INDUCTOR	CTF1379
	JA	2002-2004 OPT. LINK IN	AKS7001
	JA	2006 OPT. LINK OUT	AKS7002
	JA	2008 PIN JACK(2P)	AKB7173
	JA	2101 SOCKET	BKP1127
	KN	2201 SCREW PLATE	VNE1948
	CN	2101,2102 SOCKET(30PL)	BKP1047
	CN	2103 24P SOCKET	AKP7251
	CN	2104 14P SOCKET	AKP7248

RESISTORS

	R	2007-2009,2012,2016	RS1/16SS101J
	R	2017,2020,2089	RS1/16SS0R0J
	R	2018,2084-2087,2210	RS1/16SS470J
	R	2019,2211,2489	RS1/16SS680J
	R	2021,2023-2025,2027	RS1/16SS101J
	R	2022,2048,2212-2216	RS1/16SS221J
	R	2026	RS1/16SS471J
	R	2028	RS1/16SS1002F
	R	2049,2088,2090-2094	RS1/16SS101J
	R	2115,2119,2168,2263	RS1/16SS101J
	R	2116-2118,2120	RS1/16SS220J
	R	2138,2146,2147,2190	RS1/8SQ105J
	R	2158,2160,2162,2164	RS1/16SS104J
	R	2165-2167,2169,2170	RS1/16SS0R0J
	R	2171-2174,2177,2178	RS1/16SS104J
	R	2189	RS1/8SQ225J
	R	2191	RS1/8SQ474J
	R	2200	RS1/8SQ105J
	R	2201,2202	RS1/16SS103J
	R	2217-2220,2487	RS1/16SS470J
	R	2431,2440	RS1/16SS0R0J
	R	2432	RS1/16SS100J
	R	2433,2434,2480,2481	RS1/16SS101J
	R	2469,2471,2472	RS1/16SS221J
	R	2473,2474	RS1/16SS102J
	R	2485	RS1/16SS101J
	R	2490	RS1/16SS820J
	Other Resistors		RS1/10SR###J

CAPACITORS

	C	2002,2005,2124,2126	CKSRYB103K50
	C	2003,2006,2010-2012	CKSRYB104K16
	C	2014,2122,2178,2214	CKSRYB104K16
	C	2018,2021,2024,2181	CEAK101M16
	C	2019,2022,2028,2032	CCSSCH471J50
	C	2020,2023,2029,2033	CKSSYB104K10
	C	2026,2065,2066	CKSRYB474K16
	C	2030	CEAK221M10
	C	2046,2070,2112,2205	CCSSCH471J50
	C	2047,2069,2106,2183	CKSSYB104K10
	C	2054,2413,2414	CCSRCH101J50
	C	2055	ACH7273
	C	2059	CEAK221M16
	C	2127,2128,2451,2452	CEAK220M50
	C	2129,2130,2223,2224	CKSRYB103K50
	C	2174,2175,2182	CCSRCH102J50
	C	2184,2187,2432	CEAK101M35
	C	2185,2186,2457,2458	CKSRYB104K25
	C	2193	CKSQYB225K10
	C	2195,2204,2212,2216	CEAK101M16
	C	2201,2202,2211,2477	CKSRYB105K10
	C	2203,2436,2437,2473	CEAK470M25
	C	2206,2208,2220,2422	CKSSYB104K16
	C	2207,2219,2421	CCSSCH471J50
	C	2215,2217	CKSRYB104K50
	C	2231,2232,2281,2282	CEAK1R0M50
	C	2233,2234,2445,2455	CCSRCH471J50
	C	2235,2236,2285,2335	CCSRCH271J50
	C	2237,2238,2283,2333	CCSRCH331J50
	C	2239,2240,2289,2290	CEAK100M50
	C	2245,2251,2252,2273	CKSRYB103K50
	C	2271,2272,2321,2322	CKSRYB472K50
	C	2274,2286,2295,2323	CKSRYB103K50
	C	2277	CCSSCH100D50
	C	2284	CKSRYB223K50
	C	2287,2337,2338,2387	CCSRCH391J50
	C	2288	CKSRYB562K50
	C	2324,2345,2373,2374	CKSRYB103K50
	C	2331,2332,2381,2382	CEAK1R0M50
	C	2334,2383,2384	CCSRCH331J50
	C	2336,2385,2386	CCSRCH271J50
	C	2339,2340,2389,2390	CEAK100M50
	C	2371,2372	CKSRYB472K50
	C	2388,2453,2454	CCSRCH391J50
	C	2395,2434,2439,2464	CKSRYB103K50
	C	2401,2402,2433,2435	CKSRYB104K16
	C	2403,2404	DCH1201
	C	2405-2408,2459,2460	CEAK100M50
	C	2411,2412,2415,2416	CKSQYB103K50
	C	2438,2441-2443,2446	CKSRYB104K16
	C	2440	CEAK101M16
	C	2456,2475,2489	CCSRCH471J50
	C	2472,2476,2480	CKSRYB104K16
	C	2474	CEAK470M25
	C	2478	CKSRYB103K50
	C	2481,2483,2484	CCSSCH471J16
	C	2482	CKSSYB104K10

Mark	No.	Description	Part No.

D FRONT HDMI ASSY

SEMICONDUCTORS

	IC	3551	CXB1443R
	IC	3552	TC7MB3257FK
	IC	3553	S-24CS02AFT
⚠	IC	3554	S-1132B33-U5
	Q	3551-3553	LTC114YUB
	D	3551	1SS301

MISCELLANEOUS

	L	3551,3565-3568	INDUCTOR CTF1473
	L	3552	CHIP BEADS ATL7010
	L	3571-3576	FERRITE BEAD CTF1528
	JA	3501	USB CONNECTOR XKP3086
	JA	3551	HDMI CONNECTOR AKP7254
	JA	3552	HDMI CONNECTOR AKP7253
	KN	3501,3551	WRAPPING TERMINAL VNF1084
	KN	3552	WRAPPING TERMINAL VNF1084
	CN	3501	CONNECTOR AKM1276
	CN	3553	4P CONNECTOR VKN1409

RESISTORS

	R	3503,3506-3508,3513	RS1/10SR0R0J
	R	3564	RS1/16SS4701F
	R	3581-3584	RS1/10SR0R0J
	R	3589	RS1/8SQ105J
	Other Resistors		RS1/16SS###J

CAPACITORS

	C	3502,3579	CCSSCH101J50
	C	3503	CKSSYB104K16
	C	3504	CEAK221M16
	C	3505,3551,3556,3565	CCSSCH102J50
	C	3506,3507	CCSRCH101J50
	C	3552,3553,3562,3563	CKSSYB104K10
	C	3554,3555	CKSRYB104K25
	C	3560	CCSSCH330J50
	C	3561	CEVW101M16
	C	3564,3572,3575	CCSSCH471J16
	C	3566,3567,3570,3571	CKSSYB104K10
	C	3568,3569,3577,3590	CCSSCH102J50
	C	3573,3574,3576,3578	CKSSYB104K10
	C	3589	CEAK101M16
	C	3591	CKSSYB104K10
	C	3594	CCSSCH102J50

E MULTI CH IN ASSY

MISCELLANEOUS

	JA	7761,7762	PIN JACK(4P) XKB3017
	KN	7751	SCREW PLATE VNE1948
	CN	7761	18P SOCKET AKP7123
	CN	7762	5P SOCKET XKP3073

RESISTORS

	All Resistors		RS1/10SR###J

CAPACITORS

	C	7765,7766,7771,7772	CEAK220M50
	C	7777,7778,7783,7784	CEAK220M50
	C	7785,7788	CKSRYB104K50
	C	7786,7789	CCSRCH471J50

Mark	No.	Description	Part No.

F DIGITAL MAIN ASSY(SC-37)

SEMICONDUCTORS

	IC	101	UPD61283F1-407LU2A
	IC	102,1601,1812,9012	TC7SH08FUS1
	IC	103,104	NJM12904V
NSP	IC	402	AYW7335
	IC	403,404	K4H561638J-LCB3
	IC	601,1501,1804	TC7WHU04FU
	IC	602	341S2164
	IC	604	PE7008A
	IC	605,1806,1815	TC74VHC125FK
	IC	606,611,9014,9306	TC74VHC126FK
	IC	607,9302,9304	BU4094BCFV
	IC	608,613,9307	TC74VHCT08AFKS1
	IC	609	TC74VHCT541AFK
	IC	610	TC7WH08FU
	IC	612,1805	TC74VHCT125AFK
	IC	614,9011	TC74VHC08FK
	IC	901	TC74VHC153FK
	IC	903,907	S-24CS02AFT
	IC	904	SII9233ACTU
	IC	905,909	TC7MB3257FK
	IC	906	CXB1444R
	IC	908	TC74VHC541FK
	IC	1102	ADV7181CBSTZ
	IC	1202	TC74LCX541FK
	IC	1203,1217,1218	TC7SZ125FU
	IC	1204	88DE2750
	IC	1205-1211,1215	TC74VCX541FK
	IC	1212	EDE5116AJBG-8E-E
⚠	IC	1216	LP2996M
⚠	IC	1502,1605,1606,1801	AAT4614AIGU-2
	IC	1602,1603	SII9134CTU
	IC	1604,1809-1811	TC74VHC157FK
	IC	1607,9002	TC7SH32FUS1
⚠	IC	1802,9812	R1172H501D
	IC	1803	BU9450KV
	IC	1808,1814,9015	TC74LCX157FK
⚠	IC	1816,9008	NJM2872BF33
	IC	9001	AYW7333
	IC	9003	DSPA56720AG
	IC	9004	IS42S16400F-6TL
	IC	9005,9006	TC74LCX573FK
	IC	9009	ICS87002BM-05
	IC	9010	TC7WH157FU
	IC	9013,9016,9017	TC74LCX08FK
	IC	9018	TC7WH126FU
	IC	9019,9301,9504	TC7SH08FUS1
	IC	9201	IS42S16100E-6TL
	IC	9202	D787E001BRFP250L
	IC	9305	TC74VHC04FK
⚠	IC	9308	AAT4614AIGU-2
NSP	IC	9501	AYW7332
	IC	9502	K4S281632K-UC60
	IC	9505	RTL8201CP-LF
⚠	IC	9801	MB39C011A
⚠	IC	9802,9805,9811	NJM2846DL3-33

Mark	No.	Description	Part No.
⚠	IC	9803,9804	NJM2846DL3-18
⚠	IC	9806,9815	S-1172B10-U5
⚠	IC	9809	S-1170B25UC-OTK
⚠	IC	9810	MM1701WH
⚠	IC	9813,9816	S-1172B12-U5
	Q	101,102,607	LSA1576UB
	Q	601,603,9302-9305	LTA124EUB
	Q	602	LTC124EUB
	Q	608,1509-1511	LSC4081UB
	Q	901,903,904,1601	LTC114YUB
	Q	902	HN1K02FU
	Q	1501-1504,1506-1508	LSA1576UB
	Q	1602	LTC114YUB
	Q	1603,1604	UMB1N
	Q	9301	LTC114EUB
	Q	9306	LSA1576UB
	Q	9307	RN4903
⚠	Q	9801,9802	SP8M2
	D	601	RB501V-40
	D	602-606,9806	1SS352
	D	607,1801,1802	HZU5R6(B2)
	D	901,905,906	1SS301
	D	1601,1602	UDZS5R1(B)
	D	9809,9814	1SR154-400

MISCELLANEOUS

	L	101,105	CHIP SOLID INDUCTOR QTL1013
	L	102	INDUCTOR ATL7049
	L	103	INDUCTOR LCTC150K2125
	L	104	INDUCTOR ATL7045
	L	601,602	CHIP SOLID INDUCTOR QTL1013
	L	603,606,905,906	CHIP BEADS ATL7010
	L	604,605	CHIP SOLID INDUCTOR QTL1013
	L	607,907	CHIP SOLID INDUCTOR QTL1013
	L	908,916	CHIP SOLID INDUCTOR QTL1013
	L	909-911,1101,1102	CHIP BEADS ATL7010
	L	1104,1508	CHIP SOLID INDUCTOR QTL1013
	L	1106	INDUCTOR CTF1295
	L	1202,1208-1210,1601	CHIP BEADS ATL7010
	L	1204-1207,1211-1216	INDUCTOR CTF1473
	L	1219,1220,1620,1621	INDUCTOR CTF1473
	L	1501	FILTER CTF1703
	L	1502-1504	INDUCTOR ATL7033
	L	1505-1507	INDUCTOR ATL7035
	L	1509	INDUCTOR LCTC100K2125
	L	1511-1513	INDUCTOR LCTC4R7K2125
	L	1602,1605-1608	CHIP BEADS ATL7010
	L	1603,1604	CHIP SOLID INDUCTOR QTL1013
	L	1609-1616	COIL ATH7064
	L	1619	INDUCTOR CTF1386
	L	1624-1626,1629,9804	CHIP BEADS ATL7010
	L	1801-1806	CHIP SOLID INDUCTOR QTL1013
	L	1808,1809	CHIP SOLID INDUCTOR QTL1013
	L	1811-1815	CHIP SOLID INDUCTOR QTL1013
	L	9001,9002	CHIP SOLID INDUCTOR QTL1013
	L	9003,9303	INDUCTOR CTF1473
	L	9004	CHIP SOLID INDUCTOR QTL1013
	L	9006-9009	CHIP SOLID INDUCTOR QTL1013
	L	9011-9013	CHIP SOLID INDUCTOR QTL1013
	L	9014	INDUCTOR CTF1379
	L	9015-9024	CHIP SOLID INDUCTOR QTL1013
	L	9201	CHIP SOLID INDUCTOR QTL1013
	L	9202	INDUCTOR CTF1357
	L	9203-9205	CHIP SOLID INDUCTOR QTL1013
	L	9301,9302	CHIP SOLID INDUCTOR QTL1013
	L	9501,9502	CHIP FERRITE BEADS ATF1211
	L	9503	CHIP SOLID INDUCTOR QTL1013
	L	9504,9505	CHIP FERRITE BEADS ATF1211
	L	9506-9510	CHIP SOLID INDUCTOR QTL1013
	L	9513,9514	COIL ATH7082
	L	9803	INDUCTOR ATH7087
	L	9806	INDUCTOR ATH7086
	L	9808,9811	CHIP SOLID INDUCTOR QTL1013
	L	9809,9810	CHIP BEADS ATL7010
	F	101-111	EMI FILTER DTL1106
	JA	901-904,906	HDMI CONNECTOR AKP7254
	JA	905	HDMI CONNECTOR AKP7255
	JA	1601,1602	HDMI CONNECTOR AKP7254
	JA	1801	4P SOCKET AKP7201
	JA	9301	CONNECTOR CKS5712
	JA	9501	RJ45 CONNECTOR VKN2086
	KN	606,607	SCREW PLATE VNE1948
	X	101	CRYSTAL OSCILLATOR (27 MHz) ASS7103
	X	601	CRYSTAL (26.864 MHz) ASS7094
	X	901	CRYSTAL (27.000 MHz) ASS7092
	X	1101	CRYSTAL (28.63636 MHz) ASS7111
	X	1201	RESONATOR CSS1795
	X	1501	CRYSTAL (48 MHz) ASS7099
	X	1801	CRYSTAL (45.1584 MHz) ASS7095
	X	9001	CRYSTAL OSCILLATOR ASS7102
	X	9002	CRYSTAL OSCILLATOR ASS7101
	X	9501	CRYSTAL (25 MHz) ASS7098
	CN	601	39P CONNECTOR VKN2098
	CN	602,603,1501,1502	20P SOCKET AKP7249
	CN	1503	CONNECTOR AKM1276
	CN	9301,9302	SOCKET(30PL) BKP1047
	CN	9303	15P SOCKET XKP3078
	CN	9304	11P SOCKET XKP3076
	CN	9501	5P CONNECTOR VKN1374
	CN	9801	CONNECTOR B7B-EH
	JH	9801,9803	PCB BINDER VEF1040

RESISTORS

	R	113,9061-9064	RAB4CQ221J
	R	114,141	RS1/10SR43R0D
	R	126	RS1/16SS4700D
	R	128	RS1/16SS6800D
	R	145,146	RS1/10SR1000D
	R	150,165,415-422	RAB4CQ103J
	R	229,238,261,269	RAB4CQ473J
	R	245,303,1121,1122	RS1/10SR0R0J
	R	263,1564	RS1/16SS4700F
	R	264,265,293,294	RS1/16SS1001F
	R	288,686,947,950	RAB4CQ473J
	R	409,424-426	RAB4CQ560J
	R	431-434,1216,1217	RAB4CQ103J
	R	435,436,441,442	RAB4CQ330J
	R	448-450,455	RAB4CQ330J

Mark	No.	Description	Part No.
	R	460-462,467-470	RAB4CQ330J
	R	487,1228,1234,1240	RAB4CQ330J
	R	608,609,630	RAB4CQ0R0J
	R	615-618,638,646	RAB4CQ101J
	R	932	RS1/8SQ105J
	R	948,1101,1102	RAB4CQ470J
	R	957,961,970,1008	RAB4CQ680J
	R	967	RS1/16SS4701F
	R	973,977	RAB4CQ100J
	R	985-988,9022,9029	RAB4CQ220J
	R	1107-1109,1112,1202	RAB4CQ470J
	R	1204-1208,1214,1215	RAB4CQ470J
	R	1221,1222,1251-1256	RAB4CQ473J
	R	1227,1229,1823,1828	RS1/10SR101J
	R	1235	RAB4CQ472J
	R	1236,1250,1275	RAB4CQ680J
	R	1238,1242-1245,1248	RAB4CQ470J
	R	1249,1261,1263-1269	RAB4CQ470J
	R	1258-1260,1262,1270	RAB4CQ473J
	R	1271,1274,1278,1283	RAB4CQ473J
	R	1277,1284,1288,1289	RAB4CQ151J
	R	1279,1833,9003,9201	RAB4CQ470J
	R	1287,1614-1617,1622	RAB4CQ473J
	R	1291,9034	RAB4CQ151J
	R	1528-1530,1541,1545	RS1/16SS2200F
	R	1546,1548,1550	RS1/16SS56R0F
	R	1547,1549	RS1/16SS2200F
	R	1554,1574,1575,9310	RS1/10SR0R0J
	R	1555-1557	RS1/16SS5601F
	R	1568,1570,1572	RS1/16SS3300F
	R	1625,1633,1642,1645	RAB4CQ473J
	R	1650,1651	RS1/16SS6800F
	R	1814	RS1/10SR104J
	R	9016	RS1/10SR103J
	R	9032,9038,9043	RAB4CQ220J
	R	9035,9217,9223	RAB4CQ103J
	R	9054,9055	RS1/10SR101J
	R	9065	RAB4CQ101J
	R	9068-9071,9515-9517	RAB4CQ220J
	R	9214,9215,9227,9228	RAB4CQ470J
	R	9233,9235,9239	RAB4CQ470J
	R	9246-9249,9514,9518	RAB4CQ470J
	R	9314,9801,9807,9808	RS1/10SR0R0J
	R	9540,9593,9594	RAB4CQ473J
	R	9558,9564,9587,9588	RAB4CQ470J
	R	9592	RAB4CQ330J
	R	9614,9615	RAB4CQ470J
	R	9653	RS1/16SS2001F
	R	9657,9658,9661,9663	RS1/16SS49R9F
	R	9802	RS1/16SS1501D
	R	9804	RS1/16SS3302D
	R	9806	RS1/16SS1502D
	R	9810,9811,9819,9820	RS1/10SR0R0J
	R	9812	RS1/16SS1003D
	R	9814	RS1/16SS7502D
	R	9815	RS1/10SR121J
	R	9816,9823	RS1/8SQ475J
	R	9817	RS1/16SS5101D
	R	9822,9860,9863,9871	RS1/10SR0R0J
	R	9828,9829	RS1/8SQ0R0J

Mark	No.	Description	Part No.
	R	9834	RS1/8SQ225J
	R	9844	RS1/4SA105J
	Other Resistors		RS1/16SS###J

CAPACITORS

	C	101,9342,9841,9855	CKSQYB475K6R3
	C	102,107,108,115	CKSSYB104K10
	C	103,185,604,657	CCSSCH471J50
	C	104,123,124,178	CEVW101M4
	C	105,109,111,113	CKSSYB105K6R3
	C	106,110,117,131	CCSSCH102J50
	C	112,126,154,199	CKSQYB106K6R3
	C	114,118,168,411	CKSSYB103K16
	C	116,119,120,122	CKSSYB104K10
	C	121,127,128,130	CKSSYB105K6R3
	C	125,129,133	CKSSYB104K10
	C	132,141,149,151	CCSSCH102J50
	C	134,139,143,144	CKSSYB105K6R3
	C	135-138,146,152	CKSSYB104K10
	C	140,985,1355	VCH1277
	C	142,147,160,175	CCSSCH331J50
	C	145,159,172,188	CKSSYB104K16
	C	148,179,9816,9821	CKSSYB473K10
	C	150,182,636,658	CCSSCH101J50
	C	153,184,603,607	CKSSYB104K10
	C	155,157,158,164	CKSSYB105K6R3
	C	156	VCH1268
	C	161,181,189,198	CKSQYB225K10
	C	162,1108,9070,9801	VCH1234
	C	163,9339,9340	CCSSCH221J50
	C	166,430,436	CEVLW101M4
	C	167,169,170,177	CKSSYB105K6R3
	C	171,173,174,176	CCSSCH102J50
	C	180	CCSSCH151J50
	C	183,187,408,410	CKSSYB105K6R3
	C	186,9242,9337,9338	CEVW100M16
	C	190,412,415,420	CCSSCH102J50
	C	191,193,195,196	CKSSYB104K16
	C	194,9501	CEVW101M4
	C	407,409,417,428	CKSSYB104K16
	C	413,414,416,418	CKSSYB105K6R3
	C	419,432,438,606	CKSSYB103K16
	C	421,422,426,429	CKSSYB105K6R3
	C	423,631,647,1561	CCSSCH331J50
	C	424,425,912,923	CKSQYB106K6R3
	C	427,433,439,441	CCSSCH102J50
	C	431,434,437,913	CKSSYB105K6R3
	C	435,440,905,917	CKSSYB104K16
	C	442,618-621,623	CCSSCH102J50
	C	601,602,634,651	CCSSCH100D50
	C	608,982,1102,1146	CEVW101M16
	C	610,613,615-617	CKSSYB104K10
	C	614,653,684,948	CKSSYB103K16
	C	622,625,626,628	CKSSYB104K10
	C	624,627,633,635	CCSSCH102J50
	C	632,637,638,640	CKSSYB104K10
	C	639,641,646	CCSSCH102J50
	C	642-645,652,654	CKSSYB104K10
	C	648-650,660,672	CCSSCH102J50
	C	655,994,1558,1664	CEVLW101M10

Mark	No.	Description	Part No.
	C	656,661-664,671	CKSSYB104K10
	C	659,681,688,697	CCSSCH101J50
	C	673,692-696	CCSSCH102J50
A	C	674,679,680,915	CKSSYB104K10
	C	698-701,704,713	CCSSCH102J50
	C	705-708,717,718	CCSSCH101J50
	C	714,726-731,739	CCSSCH102J50
	C	720,721,756,757	CCSSCH101J50
	C	749-751,758	CCSSCH102J50
	C	761,1008,1144,1313	CCSSCH100D50
	C	901-904,906,916	CCSSCH102J50
	C	910,914,931,938	CCSSCH471J50
	C	911	CEVW470M4
	C	918,921,924,928	CKSSYB104K10
B	C	919,930,934,945	CCSSCH102J50
	C	920,965,970,1000	CCSSCH101J50
	C	922	CEVLW470M6R3
	C	925,1214,1349-1351	CKSSYB105K6R3
	C	929,933,937,940	CKSSYB104K10
	C	936,942,1518,1526	CCSSCH8R0D50
	C	939,944,950,952	CCSSCH471J50
	C	941,1206,1213,1223	CKSSYB104K16
	C	943,946,947,951	CKSSYB104K10
	C	949,968,978,988	CCSSCH102J50
	C	953,956-958,960	CKSSYB104K10
C	C	954,955,959,962	CCSSCH471J50
	C	961,964,966,969	CKSSYB104K10
	C	963,967,971,974	CCSSCH471J50
	C	972,1123,1126,1136	CKSSYB103K16
	C	973,976,980,984	CKSSYB104K10
	C	975,983,991,993	CCSSCH471J50
	C	979,981,1543-1545	CCSSCH470J50
	C	987,990,992,997	CKSSYB104K10
	C	989,1687,1689,1694	CKSRYB105K10
	C	995,1004,1009,1011	CCSSCH102J50
	C	998,1003,1103,1109	CKSSYB104K10
	C	999,1150,1212,1221	CCSSCH471J50
	C	1001,1010,1012,1014	CCSSCH101J50
	C	1013,9874	ACH7306
D	C	1101,1106,1107,1112	CCSSCH102J50
	C	1104,1110,1121,1231	CCSSCH101J50
	C	1105,1113,9336,9345	CCSSCH270J50
	C	1111,1118,1119,1128	CKSSYB104K10
	C	1117,1120,1127,1131	CCSSCH102J50
	C	1125	CKSSYB823K10
	C	1130,1142,1145,1147	CKSQYB106K6R3
	C	1132-1134,1137,1139	CKSSYB104K10
	C	1138,1270,1646,1647	CKSSYB103K16
	C	1141,1143,1148,1149	CKSSYB104K10
E	C	1151,1215,1225-1227	CCSSCH102J50
	C	1152,1153,1210,1218	CKSSYB104K10
	C	1155,1205,1211,1228	CKSQYB106K6R3
	C	1156,1357,1536,1565	CEVW101M16
	C	1203,1207,1427	CEVLW221M4
	C	1208,1358,9044,9076	CEVW221M4
	C	1222	CKSRYB105K16
	C	1224,1229,1236,1238	CKSSYB104K16
	C	1230,1352-1354,1428	CKSQYB106K6R3
	C	1240,1243,1254,1267	CKSSYB104K16
F	C	1244,1248,1251,1252	CCSSCH102J50

Mark	No.	Description	Part No.
	C	1246,1256,1268,1278	CCSSCH101J50
	C	1253,1282,1296,1301	CKSSYB104K10
	C	1272,1276,1285,1289	CKSSYB104K16
	C	1274,1294,1299,1311	CCSSCH102J50
	C	1286,1322,1339,1392	CCSSCH101J50
	C	1297,1305,1318,1319	CKSSYB104K16
	C	1298,1345,1363-1366	CCSSCH471J50
	C	1323,1325,1333,1346	CCSSCH102J50
	C	1324,1328,1334,1342	CKSSYB104K16
	C	1326	CCSSCH7R0C50
	C	1341,1362,1367-1370	CKSSYB104K10
	C	1343,1380,1384,1390	CKSSYB104K16
	C	1347,1381,1388,1395	CCSSCH102J50
	C	1371,1389,1430,1432	CCSSCH471J50
	C	1385,1429,1431,1509	CKSSYB104K10
	C	1391,1394,1398,1408	CKSSYB104K16
	C	1393,1410,1426,1541	CCSSCH101J50
	C	1401,1411,1424,1501	CCSSCH102J50
	C	1409,1425,1559,1655	CKSSYB104K16
	C	1502,1534,1537,1569	CCSSCH102J50
	C	1505-1508,1605,1606	CKSQYB106K6R3
	C	1511-1516,1535	CKSSYB104K10
	C	1520-1522	CCSSCH7R0D50
	C	1523-1525	CCSSCH5R0C50
	C	1527-1529,1538-1540	CCSSCH180J50
	C	1530-1532	CCSSCH4R0C50
	C	1533,1854,9056,9090	CKSQYB225K10
	C	1550	CCSSCH560J50
	C	1552-1554	CCSSCH390J50
	C	1555-1557,1607	CKSSYB104K10
	C	1564,1609,1615,1619	CCSSCH101J50
	C	1566,1608,1610,1612	CKSSYB105K6R3
	C	1571,1572,1601,1602	CCSSCH102J50
	C	1611,1613,1617,1621	CCSSCH471J50
	C	1614,1616,1618,1620	CKSSYB105K6R3
	C	1622,1624,1626,1641	CKSSYB105K6R3
	C	1623,1627,1637,1639	CCSSCH471J50
	C	1625,1628,1629,1636	CCSSCH101J50
	C	1630-1632,1634,1635	CKSSYB104K10
	C	1633,1662,1663,1670	CCSSCH102J50
	C	1638,1648,1649,1714	CCSSCH101J50
	C	1640,1642,1653,1659	CKSSYB104K10
	C	1643,1651,1657,1696	CKSSYB105K6R3
	C	1644,1645,1652,1654	CCSSCH471J50
	C	1650,1656,1701,1702	CKSQYB106K6R3
	C	1658,1660,1667,1703	CCSSCH471J50
	C	1661,1666,1707,1822	CKSSYB104K16
	C	1665,1807,9514,9590	CEVLW101M10
	C	1671,1698-1700,1704	CCSSCH102J50
	C	1674-1681,1684-1686	VCG1066
	C	1688,1690-1693	VCG1066
	C	1695,1801,1821	CKSRYB105K10
	C	1697,1712,1718,9024	CKSSYB105K6R3
	C	1705,1716,1721,1805	CKSSYB104K10
	C	1706,1717,1823,9033	CCSSCH331J50
	C	1708,1713,1826,1827	CCSSCH471J50
	C	1709,1715,1720,9025	CCSSCH102J50
	C	1710,1711,1816,1818	CKSQYB106K6R3
	C	1719,1802,1812,9014	CCSSCH101J50
	C	1803,1829,1844,9078	CEVW101M16

Mark	No.	Description	Part No.
	C	1804,9079,9091,9229	CKSRYB104K16
	C	1806,1808,1809	CKSSYB104K10
	C	1810,1811	CCSSCH8R0D50
	C	1813-1815,1819,1820	CKSSYB104K10
	C	1824	CCSSCH470J50
	C	1825,1828,1832,1834	CKSSYB104K10
	C	1833,1835,1837,1839	CCSSCH471J50
	C	1836,1838,1840,1846	CKSSYB104K10
	C	1841,1847,1849,9002	CCSSCH471J50
	C	1848,1852,1853,9001	CKSSYB104K10
	C	1855,9310,9360,9842	CCSSCH100D50
	C	9003,9004,9007,9009	CKSSYB104K10
	C	9005,9006,9008,9010	CCSSCH471J50
	C	9011,9013,9015,9016	CKSSYB104K10
	C	9012,9018,9021,9030	CCSSCH471J50
	C	9017,9023,9073,9075	CCSSCH101J50
	C	9019,9022,9031,9036	CKSSYB104K10
	C	9020,9032,9049,9060	CKSSYB104K16
	C	9026,9029,9035,9039	CKSSYB105K6R3
	C	9027,9028,9034,9040	CCSSCH102J50
	C	9037,9038,9051,9053	CCSSCH471J50
	C	9041,9121,9351-9356	CCSSCH102J50
	C	9042,9859,9870,9898	CKSSYB105K6R3
	C	9043,9052,9059,9064	CKSSYB104K10
	C	9050,9513,9517,9574	CKSSYB103K16
	C	9054,9082,9085,9803	CKSQYB475K10
	C	9055,9057	CKSRYB474K10
	C	9058,9061,9063,9065	CCSSCH471J50
	C	9062,9072,9334	CKSSYB104K16
	C	9066,9069,9074,9080	CKSSYB104K10
	C	9067,9068,9084,9087	CCSSCH471J50
	C	9081	CCSRCH101J50
	C	9083,9086,9088,9095	CKSSYB104K10
	C	9089,9805,9815,9824	CCSRCH102J50
	C	9092,9867	CFHXSQ103J16
	C	9093,9101,9510,9835	CEVW221M4
	C	9094,9201,9216,9830	CEVW101M16
	C	9096,9098,9100,9103	CCSSCH471J50
	C	9097,9099,9104,9106	CKSSYB104K10
	C	9102,9107	CEVLW470M16
	C	9105,9109,9111,9113	CCSSCH471J50
	C	9108,9110,9112,9114	CKSSYB104K10
	C	9115,9117,9204,9207	CCSSCH471J50
	C	9116,9203,9205,9206	CKSSYB104K10
	C	9208-9210,9212,9214	CKSSYB104K10
	C	9211,9213,9220,9226	CCSSCH471J50
	C	9215,9221-9225,9228	CKSSYB104K10
	C	9227,9233,9235,9236	CCSSCH471J50
	C	9230-9232,9234,9237	CKSSYB104K10
	C	9238,9241,9243,9244	CKSSYB104K10
	C	9239,9245,9248,9251	CCSSCH471J50
	C	9240,9250,9817,9823	CKSRYB104K16
	C	9246,9247,9249,9252	CKSSYB104K10
	C	9253,9255,9257-9260	CKSSYB104K10
	C	9254,9256,9261,9305	CCSSCH471J50
	C	9262,9306,9308,9317	CKSSYB104K10
	C	9318,9512,9516,9518	CCSSCH471J50
	C	9319,9329,9330,9346	CKSSYB104K10
	C	9331,9809,9810	CEAK102M16-P35
	C	9333	CEVW470M6R3

Mark	No.	Description	Part No.
	C	9357-9359,9503,9505	CCSSCH101J50
	C	9502,9504,9506-9509	CKSSYB104K10
	C	9511,9515,9519,9520	CKSSYB104K10
	C	9521,9524,9529,9531	CCSSCH471J50
	C	9522,9523,9525-9528	CKSSYB104K10
	C	9530,9532,9533	CKSSYB104K10
	C	9534,9539,9540	CCSSCH471J50
	C	9535,9542,9567,9618	CCSSCH102J50
	C	9536-9538,9541	CKSSYB104K10
	C	9543-9545,9551	CKSSYB104K10
	C	9546,9547	CEVLW100M16
	C	9548-9550,9560,9562	CCSSCH471J50
	C	9552,9852,9862,9873	CCSSCH101J50
	C	9553,9568	CEVW220M16
	C	9554-9559,9561,9566	CKSSYB104K10
	C	9564	CSZS330M6R3
	C	9565	CEVLW220M16
	C	9569,9570,9580,9589	CKSSYB104K10
	C	9571,9581	CCSSCH9R0D50
	C	9572	CEVLW330M25
	C	9573,9575,9587,9825	CCSSCH471J50
	C	9586,9875	CKSSYB103K16
	C	9595,9600,9619,9620	CKSSYB104K10
	C	9802,9831	CCG1233
	C	9804,9806,9813,9865	CCSSCH102J50
	C	9807,9808	CKSQYB104K25
	C	9811	CKSSYB222K50
	C	9818,9820	BCG1059
	C	9827	CKSSYB681K50
	C	9828	CCSRCH102J50
	C	9829	CKSQYB475K10
	C	9833,9849	CKSQYB225K10
	C	9834,9850	CKSRYB104K16
	C	9839	CEVW221M4
	C	9843,9847,9851,9872	CKSSYB104K10
	C	9844	ACH7309
	C	9845	ACH7314
	C	9857,9858,9871,9879	CKSQYB475K6R3
	C	9876	CCSSCH101J50
	C	9878	CEVW331M6R3
	C	9880,9913	CCSSCH100D50
	C	9881,9882,9884-9886	CKSQYB475K6R3
	C	9888,9889,9895,9899	CKSQYB475K6R3
	C	9891-9893,9897	CCSSCH102J50
	C	9894,9896	CKSSYB104K10
	C	9901-9910	CCSSCH102J50

F DIGITAL MAIN ASSY(SC-35,SC-1525-K)

SEMICONDUCTORS

	IC	101	UPD61283F1-407LU2A
	IC	102,1601,9012,9019	TC7SH08FUS1
	IC	103,104	NJM12904V
	IC	105,601,1501,1804	TC7WHU04FU
NSP	IC	402	AYW7335

Mark	No.	Description	Part No.
	IC	403,404	K4H561638J-LCB3
	IC	602	341S2164
	IC	604	PE7008A
	IC	607,9302,9304	BU4094BCFV
	IC	608,613,9307	TC74VHCT08AFKS1
	IC	609	TC74VHCT541AFK
	IC	610	TC7WH08FU
	IC	611,9014,9306	TC74VHC126FK
	IC	612,1805	TC74VHCT125AFK
	IC	614,9011	TC74VHC08FK
	IC	901	TC74VHC153FK
	IC	903,907	S-24CS02AFT
	IC	904	SII9233ACTU
	IC	905,909	TC7MB3257FK
	IC	906	CXB1444R
	IC	908	TC74VHC541FK
	IC	1102	ADV7181CBSTZ
	IC	1202	TC74LCX541FK
	IC	1203,1217,1218	TC7SZ125FU
	IC	1204	88DE2750
	IC	1205-1211,1215	TC74VCX541FK
	IC	1212	EDE5116AJBG-8E-E
⚠	IC	1216	LP2996M
⚠	IC	1502,1605,1606,1801	AAT4614AIGU-2
	IC	1602,1603	SII9134CTU
	IC	1604,1809-1811	TC74VHC157FK
	IC	1607,9002	TC7SH32FUS1
⚠	IC	1802,9812	R1172H501D
	IC	1803	BU9450KV
	IC	1806,1815	TC74VHC125FK
	IC	1808,1814,9015	TC74LCX157FK
⚠	IC	1816,9008	NJM2872BF33
	IC	9001	AYW7334
	IC	9003	DSPA56720AG
	IC	9004	IS42S16400F-6TL
	IC	9005,9006	TC74LCX573FK
	IC	9009	ICS87002BM-05
	IC	9010	TC7WH157FU
	IC	9013,9016	TC74LCX08FK
	IC	9018	TC7WH126FU
	IC	9301	TC7SH08FUS1
	IC	9305	TC74VHC04FK
⚠	IC	9308	AAT4614AIGU-2
	IC	9506	LAN9211-ABZJ
⚠	IC	9801	MB39C011A
⚠	IC	9804	NJM2846DL3-18
⚠	IC	9806,9815	S-1172B10-U5
⚠	IC	9809	S-1170B25UC-OTK
⚠	IC	9810	MM1701WH
⚠	IC	9811	NJM2846DL3-33
⚠	IC	9813	S-1172B12-U5
	Q	101,102,607	LSA1576UB
	Q	601,603,9302-9305	LTA124EUB
	Q	602	LTC124EUB
	Q	608,1509-1511	LSC4081UB
	Q	901,903,904,1601	LTC114YUB
	Q	902	HN1K02FU
	Q	1501-1504,1506-1508	LSA1576UB
	Q	1602	LTC114YUB
	Q	1603,1604	UMB1N
	Q	9301	LTC114EUB
	Q	9306	LSA1576UB
	Q	9307	RN4903
⚠	Q	9801,9802	SP8M2
	D	601	RB501V-40
	D	602-606,9806	1SS352
	D	607,1801,1802	HZU5R6(B2)
	D	901,905,906	1SS301
	D	1601,1602	UDZS5R1(B)
	D	9814	1SR154-400

MISCELLANEOUS

	L	102 INDUCTOR	ATL7049
	L	103 INDUCTOR	LCTC150K2125
	L	104 INDUCTOR	ATL7045
	L	105,106 CHIP SOLID INDUCTOR	QTL1013
	L	601,602 CHIP SOLID INDUCTOR	QTL1013
	L	603,606,905,906 CHIP BEADS	ATL7010
	L	607,907 CHIP SOLID INDUCTOR	QTL1013
	L	908,916 CHIP SOLID INDUCTOR	QTL1013
	L	909-911,1101,1102 CHIP BEADS	ATL7010
	L	1104,1508 CHIP SOLID INDUCTOR	QTL1013
	L	1106 INDUCTOR	CTF1295
	L	1202,1208-1210,1601 CHIP BEADS	ATL7010
	L	1204-1207,1211-1216 INDUCTOR	CTF1473
	L	1219,1220,1620,1621 INDUCTOR	CTF1473
	L	1501 FILTER	CTF1703
	L	1502-1504 INDUCTOR	ATL7033
	L	1505-1507 INDUCTOR	ATL7035
	L	1509 INDUCTOR	LCTC100K2125
	L	1511-1513 INDUCTOR	LCTC4R7K2125
	L	1602,1605-1608 CHIP BEADS	ATL7010
	L	1603,1604 CHIP SOLID INDUCTOR	QTL1013
	L	1609-1616 COIL	ATH7064
	L	1619 INDUCTOR	CTF1386
	L	1624-1626,1629,9511 CHIP BEADS	ATL7010
	L	1801-1806 CHIP SOLID INDUCTOR	QTL1013
	L	1808 CHIP SOLID INDUCTOR	QTL1013
	L	1811-1815 CHIP SOLID INDUCTOR	QTL1013
	L	9001,9002 CHIP SOLID INDUCTOR	QTL1013
	L	9003,9303 INDUCTOR	CTF1473
	L	9004 CHIP SOLID INDUCTOR	QTL1013
	L	9006-9009 CHIP SOLID INDUCTOR	QTL1013
	L	9011-9013 CHIP SOLID INDUCTOR	QTL1013
	L	9014 INDUCTOR	CTF1379
	L	9015-9020 CHIP SOLID INDUCTOR	QTL1013
	L	9022-9024 CHIP SOLID INDUCTOR	QTL1013
	L	9301,9302 CHIP SOLID INDUCTOR	QTL1013
	L	9512,9808 CHIP SOLID INDUCTOR	QTL1013
	L	9513,9514 COIL	ATH7082
	L	9803 INDUCTOR	ATH7087
	L	9804,9809,9810 CHIP BEADS	ATL7010
	L	9806 INDUCTOR	ATH7086
	F	101-111 EMI FILTER	DTL1106
	JA	901-904,906 HDMI CONNECTOR	AKP7254
	JA	905 HDMI CONNECTOR	AKP7255
	JA	1601,1602 HDMI CONNECTOR	AKP7254

Mark	No.	Description	Part No.
	JA 1801	4P SOCKET	AKP7201
	JA 9301	CONNECTOR	CKS5712
	JA 9501	RJ45 CONNECTOR	VKN2086
	KN 606,607	SCREW PLATE	VNE1948
	X 102,901	CRYSTAL (27.000 MHz)	ASS7092
	X 601	CRYSTAL (26.864 MHz)	ASS7094
	X 1101	CRYSTAL (28.63636 MHz)	ASS7111
	X 1201	RESONATOR	CSS1795
	X 1501	CRYSTAL (48 MHz)	ASS7099
	X 1801	CRYSTAL (45.1584 MHz)	ASS7095
	X 9001	CRYSTAL OSCILLATOR	ASS7102
	X 9002	CRYSTAL OSCILLATOR	ASS7101
	X 9502	CRYSTAL (25 MHz)	ASS7098
	CN 601	39P CONNECTOR	VKN2098
	CN 602,603,1501,1502	20P SOCKET	AKP7249
	CN 1503	CONNECTOR	AKM1276
	CN 9301,9302	SOCKET(30PL)	BKP1047
	CN 9303	15P SOCKET	XKP3078
	CN 9304	11P SOCKET	XKP3076
	CN 9801	CONNECTOR	B7B-EH
	JH 9801,9803	PCB BINDER	VEF1040

RESISTORS

	R	113,9061-9064	RAB4CQ221J
	R	114,141	RS1/10SR43R0D
	R	126	RS1/16SS4700D
	R	128	RS1/16SS6800D
	R	145,146	RS1/10SR1000D
	R	150,165,415-422	RAB4CQ103J
	R	229,238,261,269	RAB4CQ473J
	R	245,303,1121,1122	RS1/10SR0R0J
	R	263,1564	RS1/16SS4700F
	R	264,265,293,294	RS1/16SS1001F
	R	288,686,947,950	RAB4CQ473J
	R	409,424-426	RAB4CQ560J
	R	431-434,1216,1217	RAB4CQ103J
	R	435,436,441,442	RAB4CQ330J
	R	448-450,455	RAB4CQ330J
	R	460-462,467-470	RAB4CQ330J
	R	487,1228,1234,1240	RAB4CQ330J
	R	608,609,630	RAB4CQ0R0J
	R	615-618,638,646	RAB4CQ101J
	R	932	RS1/8SQ105J
	R	948,1101,1102	RAB4CQ470J
	R	957,961,970,1008	RAB4CQ680J
	R	967	RS1/16SS4701F
	R	973,977,9643,9651	RAB4CQ100J
	R	985-988,9022,9029	RAB4CQ220J
	R	1107-1109,1112,1202	RAB4CQ470J
	R	1204-1208,1214,1215	RAB4CQ470J
	R	1221,1222,1251-1256	RAB4CQ473J
	R	1227,1229,1823,1828	RS1/10SR101J
	R	1235	RAB4CQ472J
	R	1236,1250,1275	RAB4CQ680J
	R	1238,1242-1245,1248	RAB4CQ470J
	R	1249,1261,1263-1269	RAB4CQ470J
	R	1258-1260,1262,1270	RAB4CQ473J
	R	1271,1274,1278,1283	RAB4CQ473J
	R	1277,1284,1288,1289	RAB4CQ151J
	R	1279,1833,9003,9034	RAB4CQ470J
	R	1287,1614-1617,1622	RAB4CQ473J
	R	1291	RAB4CQ151J
	R	1528-1530,1541,1545	RS1/16SS2200F
	R	1546,1548,1550	RS1/16SS56R0F
	R	1547,1549	RS1/16SS2200F
	R	1554,1574,1575,9310	RS1/10SR0R0J
	R	1555-1557	RS1/16SS5601F
	R	1568,1570,1572	RS1/16SS3300F
	R	1625,1633,1642,1645	RAB4CQ473J
	R	1650,1651	RS1/16SS6800F
	R	1814	RS1/10SR104J
	R	9016	RS1/10SR103J
	R	9032,9038,9043	RAB4CQ220J
	R	9035	RAB4CQ103J
	R	9054,9055	RS1/10SR101J
	R	9065	RAB4CQ101J
	R	9068-9071,9620,9621	RAB4CQ220J
	R	9314,9801,9807,9808	RS1/10SR0R0J
	R	9640,9646	RAB4CQ220J
	R	9662	RS1/16SS1202F
	R	9665	RAB4CQ473J
	R	9678-9681	RS1/16SS49R9F
	R	9686	RS1/16SS10R0D
	R	9802	RS1/16SS1501D
	R	9804	RS1/16SS3302D
	R	9806	RS1/16SS1502D
	R	9810,9811,9819,9820	RS1/10SR0R0J
	R	9812	RS1/16SS1003D
	R	9814	RS1/16SS7502D
	R	9816,9823	RS1/8SQ475J
	R	9817	RS1/16SS5101D
	R	9822,9860,9863,9871	RS1/10SR0R0J
	R	9828,9829,9832,9833	RS1/8SQ0R0J
	R	9836,9837	RS1/8SQ0R0J
	R	9844	RS1/4SA105J
	Other Resistors		RS1/16SS###J

CAPACITORS

	C	104,123,124,156	CEVW101M4
	C	105,109,111,113	CKSSYB105K6R3
	C	106,110,117,131	CCSSCH102J50
	C	107,108,115,116	CKSSYB104K10
	C	112,126,154,199	CKSQYB106K6R3
	C	114,118,168,411	CKSSYB103K16
	C	119,120,122,125	CKSSYB104K10
	C	121,127,128,130	CKSSYB105K6R3
	C	129,133,135-138	CKSSYB104K10
	C	132,141,149,151	CCSSCH102J50
	C	134,139,143,144	CKSSYB105K6R3
	C	140,985,1208,1355	CEVW221M4
	C	142,147,160,175	CCSSCH331J50
	C	145,159,172,188	CKSSYB104K16
	C	146,152,153,184	CKSSYB104K10
	C	148,179,9816,9821	CKSSYB473K10
	C	150,182,636,658	CCSSCH101J50
	C	155,157,158,164	CKSSYB105K6R3
	C	161,181,189,198	CKSQYB225K10
	C	162,9070	VCH1234

Mark	No.	Description	Part No.
	C	163,9339,9340	CCSSCH221J50
	C	166,430,436	CEVLW101M4
	C	167,169,170,177	CKSSYB105K6R3
A	C	171,173,174,176	CCSSCH102J50
	C	178,194,9610	CEVW101M4
	C	180	CCSSCH151J50
	C	183,187,408,410	CKSSYB105K6R3
	C	185,604,657,910	CCSSCH471J50
	C	186,9337,9338	CEVW100M16
	C	190,203,412,415	CCSSCH102J50
	C	191,193,195,196	CKSSYB104K16
	C	200,9614,9615	CCSSCH120J50
	C	201,601,602,761	CCSSCH100D50
	C	202,603,607,610	CKSSYB104K10
B	C	407,409,417,428	CKSSYB104K16
	C	413,414,416,418	CKSSYB105K6R3
	C	419,432,438,606	CKSSYB103K16
	C	420,427,433,439	CCSSCH102J50
	C	421,422,426,429	CKSSYB105K6R3
	C	423,631,647,1561	CCSSCH331J50
	C	424,425,912,923	CKSQYB106K6R3
	C	431,434,437,913	CKSSYB105K6R3
	C	435,440,905,917	CKSSYB104K16
	C	441,442,618-621	CCSSCH102J50
C	C	608,982,1102,1108	CEVW101M16
	C	613,615-617,622	CKSSYB104K10
	C	614,653,684,948	CKSSYB103K16
	C	623,624,633,635	CCSSCH102J50
	C	626,628,632,637	CKSSYB104K10
	C	638,640,642-645	CKSSYB104K10
	C	639,641,648-650	CCSSCH102J50
	C	654,656,661-664	CKSSYB104K10
	C	655,994,1558,1664	CEVLW101M10
	C	659,681,688,697	CCSSCH101J50
	C	660,672,673	CCSSCH102J50
D	C	671,674,679,680	CKSSYB104K10
	C	692-696,698-701	CCSSCH102J50
	C	704,713,714	CCSSCH102J50
	C	705-708,717,718	CCSSCH101J50
	C	720,721,756,757	CCSSCH101J50
	C	726-731,739	CCSSCH102J50
	C	749-751,758	CCSSCH102J50
	C	901-904,906,916	CCSSCH102J50
	C	911	CEVW470M4
	C	914,931,938,939	CCSSCH471J50
	C	915,918,921,924	CKSSYB104K10
E	C	919,930,934,945	CCSSCH102J50
	C	920,965,970,1000	CCSSCH101J50
	C	922	CEVLW470M6R3
	C	925,1214,1349-1351	CKSSYB105K6R3
	C	928,929,933,937	CKSSYB104K10
	C	936,942,1518,1526	CCSSCH8R0D50
	C	940,943,946,947	CKSSYB104K10
	C	941,1206,1213,1223	CKSSYB104K16
	C	944,950,952,954	CCSSCH471J50
	C	949,968,978,988	CCSSCH102J50
F	C	951,953,956-958	CKSSYB104K10
	C	955,959,962,963	CCSSCH471J50
	C	960,961,964,966	CKSSYB104K10
	C	967,971,974,975	CCSSCH471J50

Mark	No.	Description	Part No.
	C	969,973,976,980	CKSSYB104K10
	C	972,1123,1126,1136	CKSSYB103K16
	C	979,981,1543-1545	CCSSCH470J50
	C	983,991,993,999	CCSSCH471J50
	C	984,987,990,992	CKSSYB104K10
	C	989,1687,1689,1694	CKSRYB105K10
	C	995,1004,1009,1011	CCSSCH102J50
	C	997,998,1003,1103	CKSSYB104K10
	C	1001,1010,1012,1014	CCSSCH101J50
	C	1008,1144,1313,9360	CCSSCH100D50
	C	1101,1106,1107,1112	CCSSCH102J50
	C	1104,1110,1121,1231	CCSSCH101J50
	C	1105,1113,9345	CCSSCH270J50
	C	1109,1111,1118,1119	CKSSYB104K10
	C	1117,1120,1127,1131	CCSSCH102J50
	C	1125	CKSSYB823K10
	C	1128,1132-1134,1137	CKSSYB104K10
	C	1130,1142,1145,1147	CKSQYB106K6R3
	C	1138,1270,1646,1647	CKSSYB103K16
	C	1139,1141,1143,1148	CKSSYB104K10
	C	1146,1156,1357,1536	CEVW101M16
	C	1149,1152,1153,1210	CKSSYB104K10
	C	1150,1212,1221,1298	CCSSCH471J50
	C	1151,1215,1225-1227	CCSSCH102J50
	C	1155,1205,1211,1228	CKSQYB106K6R3
	C	1203,1207,1427	CEVLW221M4
	C	1218,1253,1282,1296	CKSSYB104K10
	C	1222	CKSRYB105K16
	C	1224,1229,1236,1238	CKSSYB104K16
	C	1230,1352-1354,1428	CKSQYB106K6R3
	C	1240,1243,1254,1267	CKSSYB104K16
	C	1244,1248,1251,1252	CCSSCH102J50
	C	1246,1256,1268,1278	CCSSCH101J50
	C	1272,1276,1285,1289	CKSSYB104K16
	C	1274,1294,1299,1311	CCSSCH102J50
	C	1286,1322,1339,1392	CCSSCH101J50
	C	1297,1305,1318,1319	CKSSYB104K16
	C	1301,1341,1362	CKSSYB104K10
	C	1323,1325,1333,1346	CCSSCH102J50
	C	1324,1328,1334,1342	CKSSYB104K16
	C	1326	CCSSCH7R0C50
	C	1343,1380,1384,1390	CKSSYB104K16
	C	1345,1363-1366,1371	CCSSCH471J50
	C	1347,1381,1388,1395	CCSSCH102J50
	C	1358,9044,9076,9093	CEVW221M4
	C	1367-1370,1385,1429	CKSSYB104K10
	C	1389,1430,1432,1611	CCSSCH471J50
	C	1391,1394,1398,1408	CKSSYB104K16
	C	1393,1410,1426,1541	CCSSCH101J50
	C	1401,1411,1424,1501	CCSSCH102J50
	C	1409,1425,1559,1655	CKSSYB104K16
	C	1431,1509,1511-1516	CKSSYB104K10
	C	1502,1534,1537,1569	CCSSCH102J50
	C	1505-1508,1605,1606	CKSQYB106K6R3
	C	1520-1522	CCSSCH7R0D50
	C	1523-1525	CCSSCH5R0C50
	C	1527-1529,1538-1540	CCSSCH180J50
	C	1530-1532	CCSSCH4R0C50
	C	1533,1854,9056,9090	CKSQYB225K10
	C	1535,1555-1557,1607	CKSSYB104K10

Mark	No.	Description	Part No.
	C	1550	CCSSCH560J50
	C	1552-1554	CCSSCH390J50
	C	1564,1609,1615,1619	CCSSCH101J50
	C	1566,1608,1610,1612	CKSSYB105K6R3
	C	1571,1572,1601,1602	CCSSCH102J50
	C	1613,1617,1621,1623	CCSSCH471J50
	C	1614,1616,1618,1620	CKSSYB105K6R3
	C	1622,1624,1626,1641	CKSSYB105K6R3
	C	1625,1628,1629,1636	CCSSCH101J50
	C	1627,1637,1639,1644	CCSSCH471J50
	C	1630-1632,1634,1635	CKSSYB104K10
	C	1633,1662,1663,1670	CCSSCH102J50
	C	1638,1648,1649,1714	CCSSCH101J50
	C	1640,1642,1653,1659	CKSSYB104K10
	C	1643,1651,1657,1696	CKSSYB105K6R3
	C	1645,1652,1654,1658	CCSSCH471J50
	C	1650,1656,1701,1702	CKSQYB106K6R3
	C	1660,1667,1703,1708	CCSSCH471J50
	C	1661,1666,1707,1822	CKSSYB104K16
	C	1665,1807	CEVLW101M10
	C	1671,1698-1700,1704	CCSSCH102J50
	C	1674-1681,1684-1686	VCG1066
	C	1688,1690-1693	VCG1066
	C	1695,1801,1821	CKSRYB105K10
	C	1697,1712,1718,9024	CKSSYB105K6R3
	C	1705,1716,1721,1805	CKSSYB104K10
	C	1706,1717,1823,9033	CCSSCH331J50
	C	1709,1715,1720,9025	CCSSCH102J50
	C	1710,1711,1816,1818	CKSQYB106K6R3
	C	1713,1826,1827,1833	CCSSCH471J50
	C	1719,1802,1812,9014	CCSSCH101J50
	C	1803,9078,9094	CEVW101M16
	C	1804,9079,9091,9817	CKSRYB104K16
	C	1806,1808,1809	CKSSYB104K10
	C	1810,1811	CCSSCH8R0D50
	C	1813-1815,1819,1820	CKSSYB104K10
	C	1824	CCSSCH470J50
	C	1825,1828,1832,1834	CKSSYB104K10
	C	1835,1837,1839,1847	CCSSCH471J50
	C	1836,1838,1846,1848	CKSSYB104K10
	C	1849,9002,9005,9006	CCSSCH471J50
	C	1852,1853,9001,9003	CKSSYB104K10
	C	9004,9007,9009,9011	CKSSYB104K10
	C	9008,9010,9012,9018	CCSSCH471J50
	C	9013,9015,9016,9019	CKSSYB104K10
	C	9017,9023,9073,9075	CCSSCH101J50
	C	9020,9032,9049,9060	CKSSYB104K16
	C	9021,9030,9037,9038	CCSSCH471J50
	C	9022,9031,9036,9043	CKSSYB104K10
	C	9026,9029,9035,9039	CKSSYB105K6R3
	C	9027,9028,9034,9040	CCSSCH102J50
	C	9041,9121,9351-9356	CCSSCH102J50
	C	9042,9578,9582,9599	CKSSYB105K6R3
	C	9050,9875	CKSSYB103K16
	C	9051,9053,9058,9061	CCSSCH471J50
	C	9052,9059,9064,9066	CKSSYB104K10
	C	9054,9082,9085,9803	CKSQYB475K10
	C	9055,9057	CKSRYB474K10
	C	9062,9072,9334	CKSSYB104K16
	C	9063,9065,9067,9068	CCSSCH471J50

Mark	No.	Description	Part No.
	C	9069,9074,9080,9083	CKSSYB104K10
	C	9081	CCSRCH101J50
	C	9084,9087,9096,9098	CCSSCH471J50
	C	9086,9088,9095,9097	CKSSYB104K10
	C	9089,9805,9815,9824	CCSRCH102J50
	C	9099,9104,9106,9108	CKSSYB104K10
	C	9100,9103,9105,9109	CCSSCH471J50
	C	9112,9114,9116,9306	CKSSYB104K10
	C	9113,9115,9117,9318	CCSSCH471J50
	C	9308,9317,9319,9329	CKSSYB104K10
	C	9330,9346,9576,9588	CKSSYB104K10
	C	9331,9809,9810	CEAK102M16-P35
	C	9333	CEVW470M6R3
	C	9342,9855,9857,9858	CKSQYB475K6R3
	C	9357-9359,9852,9862	CCSSCH101J50
	C	9577,9579,9583,9585	CCSSCH102J50
	C	9591,9593,9598,9603	CCSSCH102J50
	C	9592	CKSQYB106K6R3
	C	9594,9604,9612,9851	CKSSYB104K10
	C	9597	VCH1268
	C	9602,9606,9608,9611	CKSSYB105K6R3
	C	9605,9607,9609,9613	CCSSCH102J50
	C	9616	CKSSYB223K16
	C	9618,9804,9806,9811	CCSSCH102J50
	C	9802,9831	CCG1233
	C	9807,9808	CKSQYB104K25
	C	9813,9825,9865	CCSSCH102J50
	C	9818,9820	BCG1059
	C	9823	CKSRYB104K16
	C	9827	CCSSCH471J50
	C	9828	CCSRCH102J50
	C	9829	CKSQYB475K10
	C	9835	CEVW221M4
	C	9842,9880,9913	CCSSCH100D50
	C	9859,9870,9898	CKSSYB105K6R3
	C	9871,9881,9882	CKSQYB475K6R3
	C	9872,9894,9896	CKSSYB104K10
	C	9873,9876	CCSSCH101J50
	C	9878	CEVW331M6R3
	C	9884-9886,9888,9895	CKSQYB475K6R3
	C	9891-9893,9897	CCSSCH102J50
	C	9899	CKSQYB475K6R3
	C	9901-9910	CCSSCH102J50

G INTERFACE ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC	7001	NJM2389F
⚠	IC	7002	NJM7805FA
	Q	7001-7004,7011	LTC124EUB
	Q	7005,7012,7021	LSA1576UB
	Q	7007	LTA124EUB
	Q	7008,7010	2SA1366
	Q	7016	LTA114TUB
	Q	7017,7018,7023,7024	LSC4081UB
⚠	Q	7019,7020	2SD1763A
	Q	7022	RSR015P03

Mark	No.	Description	Part No.
	D	7002,7003,7014	1SS352
	D	7004	DAN202U
	D	7006,7011	HZU5R1(B2)
	D	7007,7009	1SS357
	D	7008,7010	SIM-20STS1
	D	7012	UDZS3R3(B)
⚠	D	7015,7016	D3SBA20(B)
	D	7017,7018	PTZ9R1(B)
	D	7021	RB411D
	D	7022-7024	1SS352

MISCELLANEOUS

	L	7001 CHIP SOLID INDUCTOR	ATL7002
	L	7002-7007 CHIP SOLID INDUCTOR	QTL1013
	H	7001-7004 FUSE CLIP	AKR1004
	JA	7001,7003,7004 JACK	AKN-209
	JA	7002 MINI JACK	QKN1013
	JA	7005 JACK	VKB1243
	KN	7001 SCREW PLATE	VNE1948
	KN	7002 WRAPPING TERMINAL	VNF1084
	KN	7005-7007 WRAPPING TERMINAL	VNF1084
	CN	7002,7005 7P PLUG	KM200IB7
	CN	7003 19P PLUG	XKP3069
	CN	7004 21P PLUG	XKP3070
	CN	7006 CONNECTOR	9604S-17C
	CN	7007 17P PLUG	XKP3068
	CN	7008 15P PLUG	XKP3067
	CN	7009 4P PLUG	KM200IB4
		7001-7004 HEAT SINK(AL)	ANH7224
		7021-7024 SCREW	BBZ30P080FCC
	JH	7001 PCB BINDER	VEF1040
	JP	7001 2P HOUSING ASSY	ADX7725
	U	7001 REMOTE RECEIVER UNIT	GP1UE284QKC1

RESISTORS

	R	7075	RS1/10SR3001D
	R	7076	RS1/10SR1200D
	R	7077	RS1/10SR1001D
	R	7096	ACN7180
	R	7097	RS1/4SA0R0J
		Other Resistors	RS1/10SR###J

CAPACITORS

	C	7002-7005,7014,7021	CCSRCH100D50
	C	7006,7009,7010,7017	CCSRCH102J50
	C	7007,7011	CKSRYB104K16
	C	7012,7015,7056,7057	CKSRYB104K50
	C	7013,7016,7020,7027	CKSRYB103K50
	C	7019,7024,7076,7078	CCSRCH102J50
	C	7025,7029,7031	CCSRCH471J50
	C	7026,7100	CCSRCH100D50
	C	7028	CEAK101M16
	C	7030,7032,7066	CKSRYB103K50
	C	7038,7039	CFTLA274J50
	C	7048,7049	CEAK332M25
	C	7062,7063,7071,7072	CEAK101M25
	C	7065	CKSRYB334K25
	C	7077,7079,7081,7083	CKSRYB104K50
	C	7080,7082,7084,7088	CCSRCH102J50
	C	7085,7090,7093,7097	CKSRYB104K50
	C	7089,7091,7092,7096	CCSRCH102J50
	C	7095	CEAK100M50
	C	7101-7103,7105,7107	CCSRCH101J50
	C	7104,7106	CFTLA394J50
	C	7108	CEAK470M25
	C	7112	CEAK221M16
	C	7113	CCSRCH331J50
	C	7114	CKSRYB104K50
	C	7115-7119	CCSRCH101J50
	C	7120,7121	CKSQYB105K16

H COMPONENT ASSY

SEMICONDUCTORS

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

MISCELLANEOUS

	L	8501 CHIP COIL	LCYA330J2520
	JA	8301 6P PIN JACK NI	AKB7224
	JA	8302,8304,8305 3P PIN JACK NI	AKB7227
	JA	8601 9P D-SUB SOCKET	AKP7256
	X	8501 CRYSTAL RESONATOR (14.31818 MHz)	ASS7080
	CN	8301-8303 20P PLUG	AKM7171
	CN	8401 PLUG(2P)	KM200NA2L
	JP	8402 4P HOUSING ASSY	ADX7724

RESISTORS

	R	8301-8309	RS1/10SR75R0F
	R	8310,8312,8314,8316	RS1/10SR68R0D
	R	8318,8320	RS1/10SR68R0D
	R	8417,8418	RS1/8SQ105J
		Other Resistors	RS1/10SR###J

CAPACITORS

	C	8301,8302,8383,8417	CEAK101M16
	C	8303,8319,8320,8333	CCSRCH102J50
	C	8304,8306,8308,8314	CKSRYB104K16
	C	8305,8307,8309,8310	CKSQYB106K6R3
	C	8311,8312,8330,8331	CKSRYB103K50
	C	8313,8315,8317,8318	CKSQYB106K6R3
	C	8316,8323,8325,8327	CKSRYB104K16
	C	8321,8322,8324,8326	CKSQYB106K6R3
	C	8328,8336,8337,8344	CKSRYB104K16
	C	8334,8378,8389,8403	CCSRCH102J50
	C	8335,8376,8377,8379	CCSRCH100D50
	C	8338,8339,8360,8402	CKSRYB103K50
	C	8340	CKSQYB105K16
	C	8341-8343,8345,8346	CKSQYB106K6R3
	C	8347,8349,8395,8401	CKSRYB104K16

Mark	No.	Description	Part No.
	C	8348,8404,8405,8409	CKSQYB106K6R3
	C	8354,8355,8381,8382	CKSRYB105K10
	C	8358,8359	CCSRCH470J50
	C	8384,8385,8388	CKSRYB473K50
	C	8386	CKSRYB562K50
	C	8387,8390	CKSRYB105K10
	C	8406,8407,8503,8509	CCSRCH101J50
	C	8408,8410,8413,8415	CCSRCH102J50
	C	8414	CKSQYB106K6R3
	C	8418,8520,8521,8613	CEAK101M16
	C	8419,8420	CEAK221M16
	C	8421,8422,8501,8513	CCSRCH102J50
	C	8504,8505	CCSRCH5R0C50
	C	8506,8508	CCSRCH240J50
	C	8507,8510	CKSRYB122K50
	C	8511,8512,8614	CCSRCH101J50
	C	8515,8601,8607	CKSRYB103K50
	C	8522,8523,8602	CKSRYB104K16
	C	8604-8606	CKSRYB104K16
	C	8608	CCSRCH471J50
	C	8610	CCSRCH331J50
	C	8611,8612	CCSRCH100D50

I COMPOSITE ASSY

SEMICONDUCTORS

	Q	3601,3604,3605,3608	LSA1576UB
	Q	3602,3603,3606,3607	HN1C01FU

MISCELLANEOUS

	JA	3601-3603 2P PIN JACK	AKB7229
	JA	3604,3605 1P PIN JACK	AKB7231
	CN	3601 20P SOCKET	AKP7249

RESISTORS

	R	3606,3609,3616,3627	RS1/10SR68R0D
	R	3629-3632	RS1/10SR75R0F
		Other Resistors	RS1/10SR###J

CAPACITORS

	C	3602,3603,3605,3606	CKSRYB104K16
	C	3607,3618-3620	CCSRCH181J50
	C	3608,3610,3612,3613	CKSRYB104K16
	C	3614,3617	CCSRCH102J50
	C	3615,3616	CKSRYB104K16
	C	3621-3624	CEAK101M16

J MIC HP ASSY

SEMICONDUCTORS

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

MISCELLANEOUS

	JA	6201 JACK	VKB1243
	JA	6351 PHONE JACK	AKN7029
	JA	6352 JACK	AKB7219
	KN	6202,6203 WRAPPING TERMINAL	VNF1084
	CN	6251 CONNECTOR	9604S-15C

Mark	No.	Description	Part No.

RESISTORS

	R	6357	RS1/10SR75R0F
		Other Resistors	RS1/10SR###J

CAPACITORS

	C	6204,6228,6231,6232	CKSRYB103K50
	C	6209	CKSRYB105K6R3
	C	6212	CKSRYB471K50
	C	6213,6219	CEJQ100M16
	C	6216,6218,6362	CCSRCH101J50
	C	6222,6227	CCSRCH330J50
	C	6224	CKSRYB104K16
	C	6229,6241,6242	CCSRCH102J50
	C	6234,6235	CEAK101M16
	C	6237	CEAK100M50
	C	6353,6354	CKSRYB822K50

K DISPLAY ASSY

SEMICONDUCTORS

		IC	8001	PDC197A8
		IC	8002	GP1UE274XKC1
⚠		IC	8004	S-1200B33-M5
		IC	8201	PE5615A
		IC	8202	PST8248N
	Q		8001-8011	LTC124EUB
	Q		8012	2SK2034
	D		8001,8003,8005,8007	SLR343BC4T(JKLM)
	D		8009,8013	SLR343BC4T(JKLM)
	D		8011	SLR343WBCT(MNPQ)
	D		8016	1SS302
	D		8019	RB751V-40
	D		8201	MC2848-11

MISCELLANEOUS

	J		9998	JUMPER WIRE	D20PYY0310E
	J		9999	JUMPER WIRE	D20PYY0410E
	KN		8201	FL HOLDER(FE)	VNF1096
	V		8201	FL TUBE DISPLAY	AAV7115
	S		8001-8012,8015-8020	SWITCH	ASG7029
	S		8023	SWITCH	ASG7029
	S		8024	ROTARY ENCODER	ASX7051
	X		8002	CRYSTAL OSCILLATOR (15.0 MHz)	CSS1653
	X		8201	CERAMIC RESONATOR (5.00 MHz)	VSS1142
	CN		8002	9P CONNECTOR	VKN1852
	CN		8006	4P CONNECTOR	VKN1819
	CN		8202	39P CONNECTOR	VKN2098

RESISTORS

		All Resistors	RS1/10SR###J

MISCELLANEOUS

	JH	8001 3P CABLE HOLDER	51048-0300
	JH	8003 4P CABLE HOLDER	51048-0400
	JP	8004 7P HOUSING ASSY	ADX7728
	JP	8005 4P HOUSING ASSY	ADX7735

CAPACITORS

	C	8001,8003,8004,8006	CCSRCH101J50
	C	8002,8005	CCSRCH470J50
	C	8007,8016,8235,8256	CCSRCH101J50
	C	8009,8018,8225,8227	CKSRYB104K16
	C	8012,8013	CCSRCH120J50

Mark	No.	Description	Part No.
	C	8014,8030,8031,8228	CKSRYB105K10
	C	8015,8017,8201,8224	CKSRYB104K50
	C	8019-8021,8023,8025	CCSRCH102J50
	C	8024	ACH7272
	C	8029,8034,8035,8222	CKSRYB103K50
	C	8033,8204-8220,8226	CKSRYB471K50
	C	8202,8223,8230,8233	CCSRCH102J50
	C	8221	ACH7268
	C	8229,8232	CKSRYB104K50
	C	8231,8237,8238	CEAK470M50
	C	8236	CKSRYB105K16
	C	8239	CEAK221M16
	C	8240	CCSRCH102J50
	C	8242,8258	CCSRCH100D50
	C	8244,8245,8251	CKSRYB103K50
	C	8248	CEAK101M35
	C	8255	CKSRYB473K50
	C	8257	CCSRCH101J50
	C	8259	CCSRCK2R0C50

L VOL ASSY

MISCELLANEOUS

	S	5801 ROTARY ENCODER	ASX7049
	JH	5801 3P CABLE HOLDER	51048-0300

CAPACITORS

	C	5801,5802	CKSRYB103K50

M POWER SW ASSY

SEMICONDUCTORS

	Q	5851	LTC143EUB
	D	5852	SLR343BC4T(JKLM)

MISCELLANEOUS

	S	5851 SWITCH	ASG7029

RESISTORS

	All Resistors		RS1/10SR###J

MISCELLANEOUS

	JH	5851 4P CABLE HOLDER	51048-0400

CAPACITORS

	C	5851	CCSRCH101J50
	C	5852	CKSRYB103K50

N ICE BUFFER ASSY

SEMICONDUCTORS

	IC	6801,6821,6841,6861	NJM2068MD
	IC	6881,6901,6921	NJM2068MD
	IC	6922	TC4053BFN

MISCELLANEOUS

	KN	6801 SCREW PLATE	VNE1948
	CN	6801 19P SOCKET	XKP3080
	CN	6811 15P PLUG	XKP3067
	CN	6821 21P PLUG	XKP3070

Mark	No.	Description	Part No.

RESISTORS

	R	6810,6811,6830,6831	RN1/16SC10R0D
	R	6850,6851,6870,6871	RN1/16SC10R0D
	R	6890,6891,6910,6911	RN1/16SC10R0D
	R	6930,6931	RN1/16SC10R0D
	R	6937-6950	RS1/8SQ225J
	R	6951,6952	RS1/8SQ105J
	Other Resistors		RS1/10SR###J

CAPACITORS

	C	6803,6804,6823,6824	CFHXSQ103J16
	C	6807,6808,6817,6818	CCSRCH102J50
	C	6827,6828,6837,6838	CCSRCH102J50
	C	6843,6844,6863,6864	CFHXSQ103J16
	C	6847,6848,6857,6858	CCSRCH102J50
	C	6867,6868	CCSRCH102J50
	C	6883,6884,6903,6904	CFHXSQ103J16
	C	6923,6924	CFHXSQ103J16
	C	6931,6932	CKSRYB104K50
	C	6933	CCSRCH100D50

O ICE INTERFACE ASSY

MISCELLANEOUS

	CN	3801 21P SOCKET	XKP3081
	CN	3802 15P SOCKET	XKP3078
	CN	3810,3830,3850 5P SOCKET	XKP3073
	CN	3820,3840,3860,3870 6P PLUG	AKM7174

P ICEPOWER AMP ASSY

SEMICONDUCTORS

	IC	4001	BU7262SFVM
	IC	4003	TC74VHC04FTS1
	IC	4004	TC74VHC08FTS1
	IC	4005	HA17431GLTPA
⚠	IC	4101,4201,4301,4401	ICC3-AVR
	IC	4200,4400,4600,4700	ICC1-AVR
	IC	4202,4402,4602,4702	NJM2068MD
	IC	4203,4403,4603,4703	NJM4565MD
	IC	4204,4404,4604,4704	NJM12904V
⚠	IC	4501,4601,4701	ICC3-AVR
⚠	IC	4900	NJM1431AU
	Q	4000,4002,4003	LTC124EUB
	Q	4001,4020,4111,4211	2SA1576A
	Q	4004,4006,4008,4010	LTA124EUB
	Q	4005,4007,4009,4011	RT1N140M
	Q	4012,4013	HN1A01FU
	Q	4015,4021,4109,4209	2SC4154
	Q	4016	HN1C01FU
	Q	4018	LTA124EUB
	Q	4019,4112,4312,4512	RT1N140M
⚠	Q	4100,4101,4200,4201	PHB45NQ15T
	Q	4102,4104,4202,4204	2SC5738
	Q	4103,4105,4203,4205	2SA2061
	Q	4106,4206,4306,4406	IMT4
	Q	4108,4208,4308,4408	2SD2704K

Mark	No.	Description	Part No.
	Q	4110,4210,4310,4410	2SA1514K
⚠	Q	4300,4301,4400,4401	PHB45NQ15T
	Q	4302,4304,4402,4404	2SC5738
	Q	4303,4305,4403,4405	2SA2061
	Q	4309,4409,4509,4609	2SC4154
	Q	4311,4411,4511,4611	2SA1576A
⚠	Q	4500,4501,4600,4601	PHB45NQ15T
	Q	4502,4504,4602,4604	2SC5738
	Q	4503,4505,4603,4605	2SA2061
	Q	4506,4606,4706	IMT4
	Q	4508,4608,4708	2SD2704K
	Q	4510,4610,4710	2SA1514K
⚠	Q	4700,4701	PHB45NQ15T
	Q	4702,4704	2SC5738
	Q	4703,4705	2SA2061
	Q	4709	2SC4154
	Q	4711	2SA1576A
	Q	4712,4812	RT1N140M
	D	4001,4002,4011,4012	1SS301
	D	4005,4007-4010,4110	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	4210,4310,4410,4510	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	4610,4710,4809,4810	1SS352
	D	4701,4702	RB161VA-20
	D	4703-4707	RF051VA2S
	D	4708,4709	RF101L2S
	D	4909	1SS352

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	4701,4811,4911 COMMON MODE COIL	ATL7022
	L	4702,4703 INDUCTOR	ATL7018
	L	4704 CHIP INDUCTOR	ATL7020
	JA	4101 SP TERMINAL 6-P(V0)	AKE7150
	JA	4301,4501 SP TERMINAL 4-P(V0)	AKE7149
	JA	4901 SP TERMINAL 4-P(V0)	AKE7149
	KN	4100,4200,4300,4400 SCREW PLATE	VNE1948
	KN	4501 SCREW PLATE	VNE1948
	RY	4100,4300,4500,4700 RELAY	ASR7001
	RY	4800 RELAY	ASR7001
	CN	4000 CONNECTOR	9604S-17C

Mark	No.	Description	Part No.
	CN	4100,4300,4500,4600 6P SOCKET	AKP7252
	CN	4200,4400,4700 5P PLUG	XKP3062
	CN	4901 PLUG(2P)	KM200NA2
	CN	4902 PLUG(4P)	KM200NA4
	CN	4903 PLUG(7P)	KM200NA7
		4100,4200,4300,4400,4500,4600,4700 COIL SHIELD 60(MTL)	ANK7139
	JP	4500 JUMPER WIRE 54	ADB7038
	JP	4501 JUMPER WIRE 108	ADB7039

RESISTORS

	R	4057	RS1/8SQ471J
	R	4060,4139,4239,4339	RS1/10SR5602F
	R	4061	RS1/10SR3302F
	R	4100,4101,4200,4201	RN1/16SE1000D
	R	4102,4103,4202,4203	RN1/16SE9100D
	R	4104,4105,4204,4205	RN1/16SE1001D
	R	4107,4207,4307,4407	ACN7180
	R	4123,4125,4167,4223	RS1/10SR1001F
	R	4124,4224,4324,4424	RS1/10SR2702F
	R	4126,4127,4226,4227	RS1/10SR1501F
	R	4128,4228,4328,4428	RS1/8SQ2702F
	R	4129,4229,4329,4429	RS1/8SQ1R0J
	R	4130,4230,4330,4430	RS1/8SQ4702F
	R	4131,4231,4331,4431	RS1/8SQ6802F
	R	4132,4232,4332,4432	RS1/10SR1802F
	R	4133,4135,4156,4176	RS1/10SR1801F
	R	4134,4234,4334,4434	RS1/10SR1201F
	R	4136,4236,4336,4436	RS1/10SR1502F
	R	4137,4237,4337,4437	RS1/4SA2702F
	R	4138,4238,4338,4438	RS1/10SR2701F
	R	4145,4150,4245,4250	RS1/8SQ1002F
	R	4146,4246,4346,4446	RS1/10SR3902F
	R	4147-4149,4161,4162	ACN7165
	R	4151,4152,4251,4252	ACN7162
	R	4154,4254,4354,4454	ACN7170
	R	4155,4255,4355,4455	RS1/8SQ1502F
	R	4163,4263,4363,4463	RS1/4SA1053F
	R	4164,4264,4364,4464	RS1/10SR3301F
	R	4166,4266,4366,4466	RS1/10SR1002F
	R	4168,4268,4368,4468	RS1/10SR2202F
	R	4169,4269,4369,4469	RS1/10SR1202F
	R	4177,4277,4377,4477	RS1/4SA2002F
	R	4179,4180,4279,4280	RS1/8SQ334J
	R	4181,4281,4381,4481	NTCG104KF104FB
	R	4225,4267,4323,4325	RS1/10SR1001F
	R	4233,4235,4256,4276	RS1/10SR1801F
	R	4247-4249,4261,4262	ACN7165
	R	4300,4301,4400,4401	RN1/16SE1000D
	R	4302,4303,4402,4403	RN1/16SE9100D
	R	4304,4305,4404,4405	RN1/16SE1001D
	R	4326,4327,4426,4427	RS1/10SR1501F
	R	4333,4335,4356,4376	RS1/10SR1801F
	R	4345,4350,4445,4450	RS1/8SQ1002F
	R	4347-4349,4361,4362	ACN7165
	R	4351,4352,4451,4452	ACN7162
	R	4367,4423,4425,4467	RS1/10SR1001F
	R	4379,4380,4479,4480	RS1/8SQ334J
	R	4433,4435,4456,4476	RS1/10SR1801F
	R	4439,4539,4639,4739	RS1/10SR5602F
	R	4447-4449,4461,4462	ACN7165

Mark	No.	Description	Part No.
	R	4500,4501,4600,4601	RN1/16SE1000D
	R	4502,4503,4602,4603	RN1/16SE9100D
	R	4504,4505,4604,4605	RN1/16SE1001D
A	R	4507,4607,4707,4807	ACN7180
	R	4523,4525,4567,4623	RS1/10SR1001F
	R	4524,4624,4724	RS1/10SR2702F
	R	4526,4527,4626,4627	RS1/10SR1501F
	R	4528,4628,4728	RS1/8SQ2702F
	R	4531,4631,4731	RS1/8SQ6802F
	R	4532,4632,4732	RS1/10SR1802F
	R	4533,4535,4556,4576	RS1/10SR1801F
	R	4534,4634,4734	RS1/10SR1201F
	R	4536,4636,4736	RS1/10SR1502F
	R	4537,4637,4737	RS1/4SA2702F
B	R	4538,4638,4738	RS1/10SR2701F
	R	4545,4550,4645,4650	RS1/8SQ1002F
	R	4546,4646,4746	RS1/10SR3902F
	R	4547-4549,4561,4562	ACN7165
	R	4551,4552,4651,4652	ACN7162
	R	4554,4654,4754	ACN7170
	R	4555,4655,4755	RS1/8SQ1502F
	R	4563,4663,4763,4863	RS1/4SA1053F
	R	4564,4664,4764,4864	RS1/10SR3301F
	R	4566,4666,4766,4900	RS1/10SR1002F
	R	4568,4668,4768	RS1/10SR2202F
C			
	R	4569,4669,4769	RS1/10SR1202F
	R	4577,4677,4777	RS1/4SA2002F
	R	4579,4580,4679,4680	RS1/8SQ334J
	R	4581,4681,4781	NTCG104KF104FB
	R	4625,4667,4723,4725	RS1/10SR1001F
	R	4633,4635,4656,4676	RS1/10SR1801F
	R	4647-4649,4661,4662	ACN7165
	R	4700,4701	RN1/16SE1000D
	R	4702,4703	RN1/16SE9100D
	R	4704,4705	RN1/16SE1001D
D			
	R	4726,4727	RS1/10SR1501F
	R	4729	RS1/8SQ1R0J
	R	4730	RS1/8SQ4702F
	R	4733,4735,4756,4776	RS1/10SR1801F
	R	4745,4750	RS1/8SQ1002F
	R	4747-4749,4761,4762	ACN7165
	R	4751,4752	ACN7162
	R	4767	RS1/10SR1001F
	R	4779,4780	RS1/8SQ334J
	R	4901	RS1/10SR3301F
	R	4902	RS2LMF682J
E	R	4903-4905,4907	ACN7180
	R	4906,4908-4910	RS1/4SA105J
	Other Resistors		RS1/10SR###J

CAPACITORS

	C	4001-4004,4011-4021	CCSRCH102J25
	C	4005,4006,4026	CKSRYB104K16
	C	4022,4025,4040,4115	CKSRYB105K10
	C	4023	CKSQYB106K6R3
	C	4024,4112,4113,4117	ACH1479
	C	4028,4926	CKSRYB103K25
F	C	4031-4035,4042,4121	CKSRYB104K16
	C	4036,4910,4911	ACH7321
	C	4100,4200,4300,4400	CFTNA104J2A
	C	4101,4201,4301,4401	CFTNA274J2A

Mark	No.	Description	Part No.
	C	4104,4105,4204,4205	ACG7069
	C	4106,4107,4206,4207	ACG7072
	C	4108,4208,4308,4408	ACH7320
	C	4109,4209,4309,4409	CFHXSQ103J16
	C	4114,4214,4314,4414	ACG7068
	C	4116,4151,4216,4251	CKSRYB105K16
	C	4118,4120,4130,4147	CKSRYB105K10
	C	4119,4219,4319,4419	CKSRYB474K16
	C	4122,4128,4222,4228	ACG7073
	C	4123,4223,4323,4423	ACG7066
	C	4124,4224,4324,4424	ACG7078
	C	4125,4225,4325,4425	ACG7071
	C	4126,4226,4326,4426	ACG7079
	C	4127,4227,4327,4427	ACG7070
	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	4148,4215,4218,4220	CKSRYB105K10
	C	4149,4150,4249,4250	ACH7318
	C	4155,4255,4355,4455	CKSYB475K25
	C	4157,4257,4357,4457	CKSRYB222K50
	C	4160,4260,4360,4460	CCSRCH102J50
	C	4161,4261,4361,4461	CCSSCH100D50
	C	4212,4213,4217,4312	ACH1479
	C	4221,4229,4252,4253	CKSRYB104K16
	C	4230,4247,4248,4315	CKSRYB105K10
	C	4258,4321,4329,4352	CKSRYB104K16
	C	4304,4305,4404,4405	ACG7069
	C	4306,4307,4406,4407	ACG7072
	C	4313,4317,4412,4413	ACH1479
	C	4316,4351,4416,4451	CKSRYB105K16
	C	4318,4320,4330,4347	CKSRYB105K10
	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	4348,4415,4418,4420	CKSRYB105K10
	C	4349,4350,4449,4450	ACH7318
	C	4353,4356,4421,4429	CKSRYB104K16
	C	4417,4512,4513,4517	ACH1479
	C	4430,4447,4448,4515	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	ACH7320
	C	4509,4609,4709,4809	CFHXSQ103J16
	C	4514,4614,4714	ACG7068
	C	4516,4551,4616,4651	CKSRYB105K16
	C	4518,4520,4530,4547	CKSRYB105K10
	C	4519,4619,4719	CKSRYB474K16
	C	4522,4528,4622,4628	ACG7073
	C	4523,4623,4723	ACG7066
	C	4524,4624,4724	ACG7078

Mark	No.	Description	Part No.
	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	4548,4615,4618,4620	CKSRYB105K10
	C	4549,4550,4649,4650	ACH7318
	C	4555,4655,4755	CKSYB475K25
	C	4557,4657,4757,4857	CKSRYB222K50
	C	4560,4660,4760,4860	CCSRCH102J50
	C	4561,4661,4761	CCSSCH100D50
	C	4612,4613,4617,4712	ACH1479
	C	4621,4629,4652,4653	CKSRYB104K16
	C	4630,4647,4648,4715	CKSRYB105K10
	C	4658,4721,4729,4752	CKSRYB104K16
	C	4704,4705	ACG7069
	C	4706,4707	ACG7072
	C	4713,4717,4817	ACH1479
	C	4716,4751,4912,4913	CKSRYB105K16
	C	4718,4720,4730,4747	CKSRYB105K10
	C	4722,4728	ACG7073
	C	4731,4732	CKSQYB224K25
	C	4735-4738	ACG7065
	C	4741,4742,4841,4842	CCG1245
	C	4743-4746,4843-4846	CCG1248
	C	4748,4818,4847	CKSRYB105K10
	C	4749,4750	ACH7318
	C	4753,4756,4758,4914	CKSRYB104K16
	C	4900-4905	ACH7305
	C	4908	ACH7311
	C	4909,4924,4925	CKSRYB104K25
	C	4915	CKSRYB104K16
	C	4920,4921	CKSRYB105K16
	C	4927-4929,4941,4942	CCG1245
	C	4930,4931	CCSRCH102J50
	C	4932,4933	ACE7082
	C	4943-4946	CCG1248

Q PRIMARY ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC	1	MIP4150MD
⚠	IC	52	NJM1431AF
	Q	71	2SD2704K
⚠	D	1	D2SB60A
⚠	D	2	RD2ALF-A1
⚠	D	3	1SS403
⚠	D	4	RB751V-40
⚠	D	50	SBT250-06J
	D	71,72	1SS352

Mark	No.	Description	Part No.
MISCELLANEOUS			
⚠	L	1 LINE FILTER	ATF7048
⚠	L	51 COIL	ATH7080
⚠	L	71 LINE FILTER	XTF3004
	H	1,2,71,72 FUSE CLIP	AKR1004
⚠	JA	71 AC INLET ASSY	ADX7464
	KN	1,2 SCREW PLATE	VNE1948
	KN	50 WRAPPING TERMINAL	VNF1084
⚠	RY	71 POWER RELAY	ASR7034
⚠	T	1 POWER TRANSFORMER	ATK7003
⚠	CN	81 CONNECTOR	B2P3-VH
		HEAT SINK(AL)	ANH7224
		SCREW	BBZ30P080FCC
		HEAT SINK(AL)	ANH7223
	JP	51 7P HOUSING ASSY	ADX7727
⚠	PC	1 PHOTO COUPLER	TLP781(GR)
RESISTORS			
⚠	R	1,12	RS2LMF683J
⚠	R	9-11	ACN7173
	R	53	RS1/10SR1202F
	R	54	RS1/10SR7500F
	R	56	RS1/10SR1002F
	R	57	RS1/4SA105J
	R	59	RS1/8SQ475J
	R	74	RS1/8SQ105J
	Other Resistors		RS1/10SR###J
CAPACITORS			
⚠	C	1	ACE7043
⚠	C	3	ACH7342
⚠	C	4	ACE7083
⚠	C	5	ACG7102
	C	6	CKSQYB105K25
⚠	C	7	ACH7343
	C	8,53,56	CKSRYB104K50
	C	9	CCSRCH100D50
	C	10	CEAK2R2M2A
	C	13,55	CCSRCH102J50
⚠	C	18,20	VCG1046
⚠	C	51	ACH7345
⚠	C	52	BCH1044
⚠	C	71,81	ACE7013
⚠	C	73	ACG7039
	C	74,75	CCSRCH101J50

R PRIMARY SHIELD ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	KN	5751 SCREW PLATE	VNE1948
	CN	5751 5P PLUG	XKP3062

S REG ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC	7501,7611	NJM78M12FA
⚠	IC	7502	NJM79M12FA
⚠	IC	7521,7601	NJM78M05FA
⚠	IC	7602	NJM79M05FA
⚠	D	7501-7504,7521,7522	1SR154-400

Mark	No.	Description	Part No.
	D	7505,7506,7523,7603	1SS357
⚠	D	7601	D3SBA20(B)
	D	7604,7614	1SS357
⚠	D	7611-7613,7621-7623	1SR154-400
	D	7624	HZU8R2(B2)
	D	7625	PTZ22(B)

MISCELLANEOUS

	H	7501-7504,7601-7604 FUSE CLIP	AKR1004
	CN	7501,7601 5P TOP POST	B5B-EH
	CN	7502 PLUG(5P)	KM200NA5
	CN	7602 PLUG(7P)	KM200NA7
	CN	7603 PLUG(4P)	KM200NA4
⚠	P	7521,7522 PROTECTOR(1.5A)	AEK7011

RESISTORS

	R	7621	RS1/10SR473J
	R	7622	RD1/4MUF391J
		Other Resistors	RS1/8SQ###J

CAPACITORS

	C	7501,7511	CEAK332M25
	C	7504,7525,7526,7609	CFTLA394J50
	C	7505,7506,7603,7604	CKSRYB103K50
	C	7507,7508	CEAK221M25
	C	7521	CEAK222M25
	C	7522	CCSRCH101J50
	C	7523	CEAK221M16
	C	7601	CEAK472M16
	C	7602	CEAK222M16
	C	7605,7606,7624	CEAK101M16
	C	7611	CEAK102M35
	C	7612	CEAK471M35
	C	7613,7626	CKSRYB103K50
	C	7614	CEAK100M50
	C	7621	CEANP101M35
	C	7622	CEAK101M35
	C	7623	CEAK221M35
	C	7625	CEAK470M50
	C	7628,7632	CCSRCH102J50
	C	7629	CFTLA104J50
	C	7634-7641	CKSRYB104K50

T ICE REG ASSY

SEMICONDUCTORS

⚠	IC	7251	NJM78M12FA
⚠	IC	7252	NJM79M12FA
⚠	IC	7271	NJM78M05FA
⚠	IC	7272	NJM79M05FA
	Q	7203,7204,7207,7221	LTC124EUB
	Q	7205,7206	LTA124EUB
⚠	Q	7211	2SD1763A
⚠	Q	7212	2SB1186A
	Q	7222	LTA143EUB
	Q	7241	2SD1763A
	Q	7242	LSC4081UB
⚠	D	7201-7204,7211,7212	1SR154-400
	D	7213,7214	HZU7R5(B1)
	D	7215,7216	1SR154-400
⚠	D	7241-7244,7251-7254	1SR154-400
	D	7245	1SS352
	D	7247	UDZS12(B)
⚠	D	7248	PTZ15(B)
⚠	D	7249	HZU12(B2)
	D	7255,7256,7275,7276	1SS357
⚠	D	7271-7274	1SR154-400

MISCELLANEOUS

	H	7201-7204,7241,7242 FUSE CLIP	AKR1004
	H	7251-7254 FUSE CLIP	AKR1004
⚠	CN	7201 8P TOP POST	B8B-EH
⚠	CN	7241 PLUG(2P)	KM200NA2
	CN	7251 PLUG(7P)	KM200NA7
	CN	7271 PLUG(4P)	KM200NA4
	CN	7302 PLUG(6P)	KM200NA6
	JH	7251-7253 PCB BINDER	VEF1040

RESISTORS

	R	7211,7213	RD1/4MUF102J
	R	7241	RS1/4S152J
	R	7245,7246,7273,7274	RS1/4SA105J
	R	7255,7256	RS1/8SQ0R0J
	R	7260	RS1/8SQ105J
	R	7272	ACN7180
		Other Resistors	RS1/10SR###J

CAPACITORS

	C	7200,7240,7250,7270	CFTLA394J50
	C	7201,7202	CEAK102M16
	C	7213-7215,7219,7245	CEAK100M50
	C	7217,7218,7242,7253	CKSRYB103K50
	C	7221,7246	CEAK470M25
	C	7222,7277,7278	CCSRCH102J50
	C	7241,7251,7252	CEAK222M25
	C	7254,7273,7274	CKSRYB103K50
	C	7255,7256	CEAK221M25
	C	7271,7272	CEAK222M16
	C	7275,7276	CEAK221M16
	C	7281,7282	CCSRCH101J50
	C	7289,7290	CCSRCH331J50
	C	7291	CFTLA394J50

U B REG ASSY

SEMICONDUCTORS

⚠	IC	7300,7301	HA17431GLTPA
⚠	IC	7302,7303	NJM2746V
⚠	Q	7300	2SD2083
⚠	Q	7301	2SB1383
	Q	7302,7308	2SD1857
	Q	7303,7307	2SB1236
	Q	7304	RT1N241M
	Q	7306	RT1P241M-11
	Q	7309	2SC4154
	Q	7310	2SA1576A
	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)

Mark	No.	Description	Part No.
	D	7353	UDZS20(B)
	D	7355	1SS352
⚠	TH	7300	PTFM04BB222Q2N34B0

MISCELLANEOUS

	H	7300-7303 FUSE CLIP	AKR1004
	CN	7306 PLUG(4P)	KM200NA4
	CN	7308 PLUG	CKS-556
	JH	7301 PCB BINDER	VEF1040
⚠	P	7300,7301 PROTECTOR(500MA)	AEK7005

RESISTORS

	R	7302,7303	RS2LMF222J
	R	7306,7307	RS2LMF472J
	R	7308-7311	RS1/4SA333J
	R	7312-7315	RN1/16SE2702D
	R	7318,7319	RS1/8SQ473J
	R	7322,7323	RS2LMF152J
	R	7324,7325	RS1/8SQ100J
	R	7326-7329	RS1LMF332J
	R	7332,7333	RN1/10SE8202D
	R	7334,7335	RN1/10SE6801D
	R	7336,7337	RN1/10SE1800D
	R	7338,7339	ACN7180
	R	7386	RS1/4SA154J
	R	7387	RS1/4SA393J
	R	7388	RS1/4SA223J
	R	7389	RS1/4SA473J
	Other Resistors		RS1/10SR###J

CAPACITORS

	C	7302,7303,7376-7379	CCSRCH102J50
	C	7304-7307,7350	CKSRYB104K50
	C	7310,7311	CKSRYB473K50
	C	7318,7319	CCG1248
	C	7320,7321	CEAK4R7M50
	C	7324,7325	CEHAT470M2A
	C	7326,7327	ACG7064
	C	7380-7384	CKSRYB104K50
	C	7386	CCSRCH102J50

V B DIODE ASSY

SEMICONDUCTORS

⚠	D	7400,7401	LN6SB60-4003

MISCELLANEOUS

	CN	7400 PLUG	CKS-556
		7400,7401 HEAT SINK B	ANH1021
		7402,7403 SCREW	IBZ30P080FCC
	JP	7401 3P HOUSING ASSY	ADX7649

RESISTORS

	R	7402	RD1/4MUF100J
	R	7403,7404	ACN7180
	Other Resistors		RS1/4SA###J

CAPACITORS

	C	7400,7401	ACH7319
	C	7402,7403	CFTLA104J2A

Mark	No.	Description	Part No.

W CONNECT ASSY

MISCELLANEOUS

CN	7801,7802 20P PLUG	AKM7171
CN	7803 19P SOCKET	XKP3080
CN	7804 21P SOCKET	XKP3081

RESISTORS

All Resistors		RS1/8SQ###J

CAPACITORS

	C	7804	CCSRCH270J50
	C	7813	CCSRCH100D50

X FB-CONNECT ASSY

MISCELLANEOUS

	CN	7681 7P SOCKET	KP200IB7L
	CN	7682 17P SOCKET	XKP3079
	CN	7683 7P PLUG	KM200IB7
	CN	7684 17P PLUG	XKP3068

RESISTORS

All Resistors		RS1/10SR###J

CAPACITORS

	C	7693,7696	CCSRCH270J50
	C	7694,7697	CCSRCH331J50
	C	7699,7702	CKSRYB103K50

Y PRE BRIDGE ASSY

MISCELLANEOUS

CN	6951,6952 19P PLUG	XKP3069

CAPACITORS

	C	6951,6954,6955,6957	CCSRCH102J50
	C	6952,6953,6956,6958	CKSRYB103K50

Z A-DAC BRIDGE ASSY

MISCELLANEOUS

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

AA D-AUDIO BRIDGE ASSY

MISCELLANEOUS

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

CAPACITORS

	C	3771,3774	CCSRCH101J50
	C	3772,3773	CCSRCH102J50

Mark	No.	Description	Part No.

AB D-DAC BRIDGE ASSY

MISCELLANEOUS

	CN3781-3784	PLUG (30P) BKM1035
	CN3785	3P PLUG XKP3061

AC FRONT BRIDGE ASSY

MISCELLANEOUS

	CN7721	7P SOCKET KP200IB7L
	CN7722	17P SOCKET XKP3079
	CN7723	PLUG(6P) KM200NA6
	CN7724	CONNECTOR 9604S-15C
	CN7726	PLUG(3P) KM200NA3
	JH 7721	PCB BINDER VEF1040
	JP 7725	7P HOUSING ASSY ADX7729

RESISTORS

	R 7745	RS1/10SR105J
	Other Resistors	RS1/4SA###J

CAPACITORS

	C 7721,7724,7733,7736	CCSRCH101J50
	C 7722,7725,7734,7737	CCSRCH102J50
	C 7753	CCSRCH102J50

AD DISPLAY BRIDGE ASSY

MISCELLANEOUS

	CN7651,7652	39P CONNECTOR VKN2097

RESISTORS

	All Resistors	RS1/8SQ###J

MISCELLANEOUS

	JH 7651	PCB BINDER VEF1040

CAPACITORS

	C 7651,7654	CCSRCH102J50

AE F-IN BRIDGE ASSY

MISCELLANEOUS

	CN7661	15P SOCKET XKP3078
	CN7662	7P SOCKET KP200IB7L
	CN7663	CONNECTOR 9604S-15C
	CN7664	PLUG(7P) KM200NA7
	CN7665	3P TOP POST B3B-EH
	CN7666	4P SOCKET KP200IB4L

RESISTORS

	R 7667	RS1/4SA105J
	Other Resistors	RS1/10SR###J

CAPACITORS

	C 7175	CCSRCH101J50

AF MCH BRIDGE ASSY

MISCELLANEOUS

	CN7671,7672	18P PLUG AKM7050

AG FFC GUARD ASSY

FFC GUARD ASSY has no service parts.

AH H GUARD ASSY

H GUARD ASSY has no service parts.

FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service parts.