

Pioneer

Service Manual



SC-91

ORDER NO.
RRV4604

AV RECEIVER

SC-91

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

Model	Type	Power Requirement	Remarks
SC-91	CUXJ	AC 120V	



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SAFETY INFORMATION



This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

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

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

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

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

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

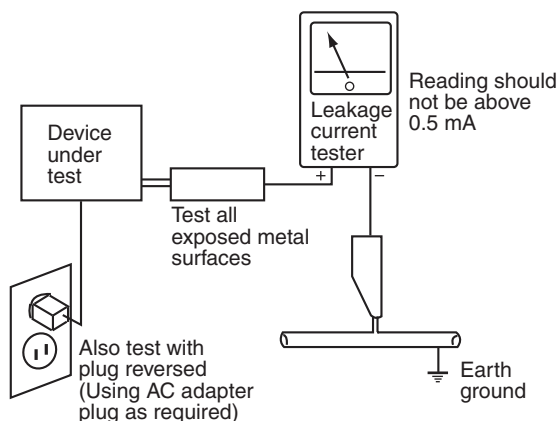
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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



AC Leakage Test

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

2. PRODUCT SAFETY NOTICE

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

Electrical components having such features are identified by marking with a on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

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

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

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.	Ref No.	FUNCTION	Part No.	Remarks
DIGITAL MAIN_L ASSY	AWX2021	IC451	3CH SW POWER SUPPLY IC	TPS65251RHA-TLB	IC with heat-pad
		IC1602	HDMI INTERFACE IC	MN864787-K	
		IC9002	DSP IC	D808K013DPTP456-K	
		IC9602	HDMI SW IC	SII9587CNUC-3-K	
		IC9703	DSP IC	D808K013DPTP456-K	
D AMP_SS ASSY	AWH7116	Q4101	FET	IRF6775MPBFS1-TRB	Pins are under the parts side
		Q4102			
		Q4201			
		Q4202			
		Q4301			
		Q4302			
		Q4401			
		Q4402			
		Q4501			
		Q4502			
		Q4601			
		Q4602			
		Q4701			
		Q4702			
DISPLAY ASSY	AWX2025	IC6001	FLASH BLANK UC IC	R5F100MHAFA-K	Software is not written

1.3 CAUTION

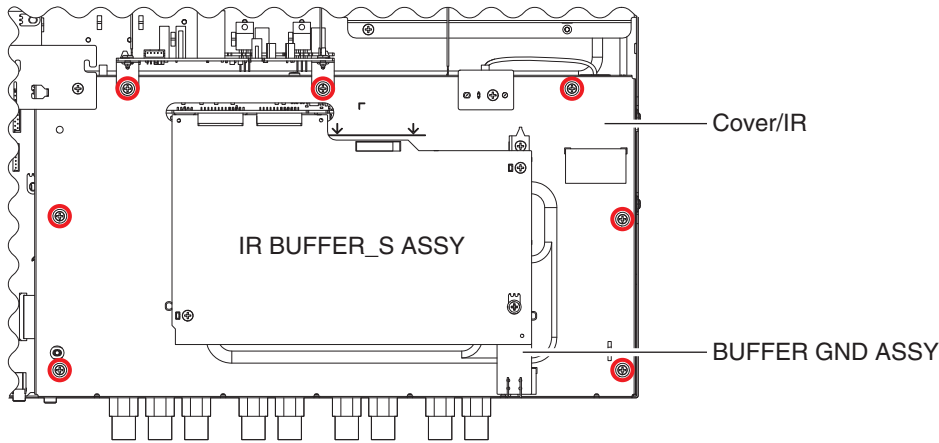
- Discharging**
Before starting the diagnosis, wait for three minutes until the electricity of the unit is discharged.
- Ground Points**
Please refer to “Ground Points”.

1.4 NOTES ON ASSEMBLING

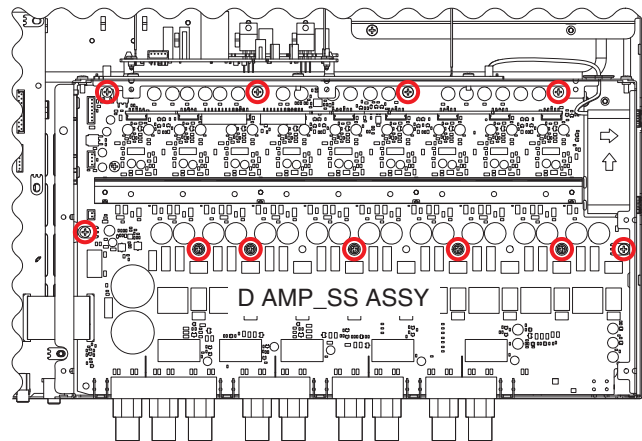
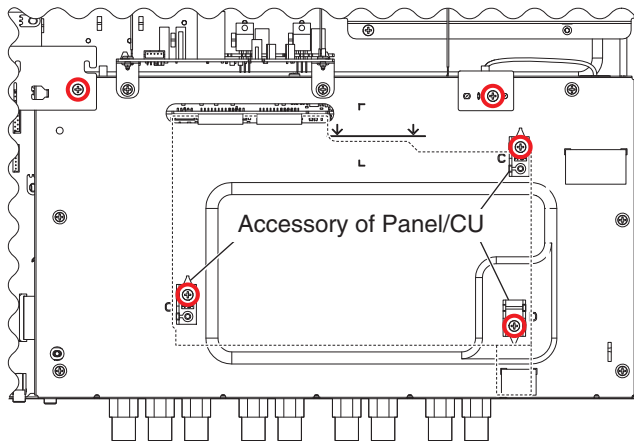
Note : The right and left positions for the attachment positioning of digital amplifier block are gradual, however, adjust the front and back positions correctly. For the positioning procedure, refer to "7. DISASSEMBLY".

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

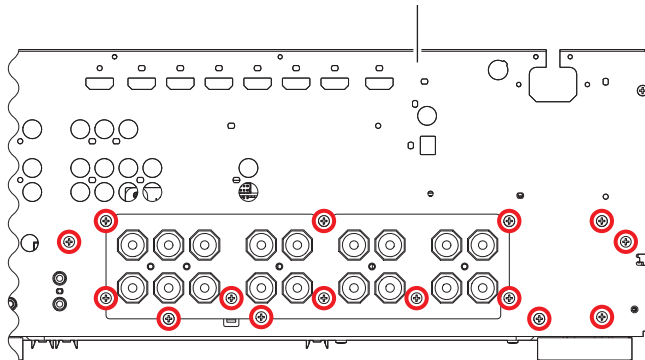
The following 7 points of screws must always be used AMZ30P060FTC



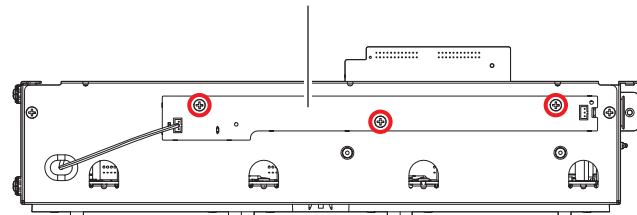
Points to be watched for swarf



Rear Panel/91U



FAN CONNECT ASSY



• Front View

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*

8 Ω 130 W** per channel

6 Ω 170 W*** per channel

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

** 1 kHz with no more than 0.08 %**** total harmonic distortion

*** 1 kHz with no more than 1 %**** total harmonic distortion

**** Measured by Audio Spectrum Analyzer

Multi channel simultaneous power output (1 kHz, 1 %, 8 Ω)

7 ch total..... 660 W

Continuous Power Output (1 kHz, 8 Ω , 0.08 %)

Front 130 W + 130 W

Center..... 130 W

Surround 130 W + 130 W

Surround back 130 W + 130 W

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

Front 170 W + 170 W

Center..... 170 W

Surround 170 W + 170 W

Surround back 170 W + 170 W

Continuous Power Output (1 kHz, 4 Ω , 1.0 %)

Front 210 W + 210 W

Center..... 210 W

Surround 210 W + 210 W

Surround back 210 W + 210 W

Total harmonic distortion 0.04 % (1 kHz, 110 W + 110 W, 8 Ω)

Guaranteed speaker impedance..... 4 Ω to 16 Ω

Audio Section

Input (Sensitivity/Impedance)

LINE..... 380 mV/47 k Ω

Output (Level/Impedance)

REC..... 380 mV/2.2 k Ω

Signal-to-Noise Ratio (IHF, short circuited, A network)

LINE..... 101 dB

Tuner Section

Frequency Range (FM)..... 87.5 MHz to 108 MHz

Antenna Input (FM)..... 75 Ω unbalanced

Frequency Range (AM)..... 530 kHz to 1700 kHz

Antenna (AM)..... Loop antenna (balanced)

Video Section

Signal level

Composite Video..... 1 Vp-p (75 Ω)

Component Video..... Y: 1.0 Vp-p (75 Ω), PB/PR: 0.7 Vp-p (75 Ω)

Corresponding maximum resolution

Component Video..... 1080i (1125i)

Bluetooth Section

Version..... Bluetooth Specification Ver. 2.1 + EDR

Output..... Bluetooth Specification Class 2

Estimated line-of-sight transmission distance* About 10 m

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

Frequency range..... 2.4 GHz

Supported Bluetooth profiles A2DP, AVRCP

Supported Codec SBC (Subband Codec), AAC

Digital In/Out Section

HDMI terminal 19-pin (Not DVI)

HDMI output type..... 5 V, 55 mA

HDMI input/MHL terminal 5 V, 900 mA

USB terminal USB2.0 High Speed (Type A) 5 V, 1 A

iPod terminal USB

Integrated Control Section

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

Network Section (Wired)

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

Network Section (Wireless)

WLAN standards.....	IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n
Frequency band	
2.4 GHz band (2.412 GHz to 2.462 GHz)	Channel 1 to Channel 11
5 GHz band (5.180 GHz to 5.240 GHz, 5.745 GHz to 5.825 GHz)....	Channel 36 to Channel 48, Channel 149 to Channel 165
Security.....	Disabled (no encryption)
	WEP (Key length: 64 bit/128 bit, Key format: ASCII/Hex)
	WPA2 Mixed (WPA/WPA2, Encryption method: TKIP/AES, Recognition method: PSK)

Miscellaneous

Power requirements.....	AC 120 V, 60 Hz
Power consumption.....	290 W
In standby.....	0.1 W
In standby (HDMI control on)	0.3 W
In standby (Network standby on)	2.7 W
In standby (Network standby on, wireless LAN connected)	3.0 W
In standby (HDMI control on, Network standby on)	2.7 W
In standby (HDMI control on, Network standby on, wireless LAN connected)	3.0 W
Auto power down.....	15 min, 30 min, 60 min, off (default)
Dimensions	435 mm (W) x 185 mm (H) x 441 mm (D) (17.13 in. (W) x 7.28 in. (H) x 17.36 in. (D))
Weight (without package).....	14.3 kg (31.5 lb)

Number of Furnished Parts

MCACC Setup microphone	1
Remote control unit	1
AAA size IEC R03 dry cell batteries	2
AM loop antenna	1
FM wire antenna	1
Power cord	
CD-ROM	
Quick start guide	
Safety Brochure	
Warranty sheet	



Notes

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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	Check the firmware version.	The firmware version must be the latest one. If it is not the latest one, be sure to update it.
2	Confirm whether the customer complain has been solved. If the customer complain occurs with the particular source, such as Dolby Digital, DTS, AAC and HDMI, input it for the operation check.	The customer complain must not be reappeared. Video, Audio and operations must be normal.
3	Check the analog audio playback. (Make the analog connections with a CD/DVD/BD player.)	Each channel audio and operations must be normal.
4	Check the HDMI digital audio playback. (Make the digital connections with a BD player.)	Each channel audio and operations must be normal.
5	Check a supported music file playback (e.g. wav, flac, mp3, etc). (Make the connections with a USB memory or an iOS device)	Audio and operations including OSD output must be normal.
6	Check surround playback. (Select Surround mode and check the multichannel operations via the DSP circuit.)	Each channel audio and operations must be normal.
7	Check the video outputs. (Connect with a BD player.)	Video and operations must be normal.
8	Check the tuner (AM and FM) operations.	Audio and operations must be normal.
9	Check the sound from headphone output.	Sound must be normal, without noise.
10	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	

3.2 PCB LOCATIONS

A

FFC GUARD_S ASSY

AG

USB RECT_S ASSY

D

VREG CHILD_S ASSY

W

TRANS VREG STYL_S ASSY

AJ

MIC HP GUARD ASSY

AD

B

V-REG_S ASSY

V

IR REG_S ASSY

U

A-REG_S ASSY

T

BINDFAN CABLE_S ASSY

AI

VREG GUARD ASSY

AH

CONNECT_S ASSY

X

D-AUDIO BRIDGE ASSY

Z

DIGITAL MAIN_L ASSY

F

Network Module

P WIRE GUARD_S ASSY

AF

FAN CONNECT ASSY

AC

BIND DM CABLE_S ASSY

AE

PRE BRIDGE_S ASSY

AB

D-FILTER BRIDGE_S ASSY

AA

A-DAC BRIDGE ASSY

Y

PRIMARY ASSY

S

C

COMPOSITE ASSY

I

COMPONENT ASSY

H

AUDIO ASSY

A

AM/FM Tuner Unit

INTERFACE_S ASSY

G

FILTER_S ASSY

B

IR BUFFER_S ASSY

O

OPT COAX_S ASSY

E

BUFFER GND ASSY

P

D AMP_SS ASSY

R

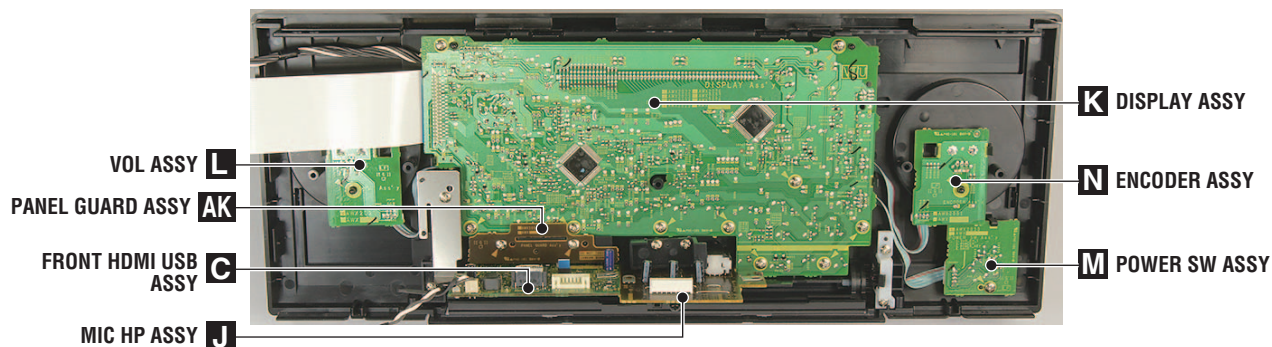
D

IR INTERFACE_S ASSY

Q

IR EDGE GUARD_S ASSY

AL



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.

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
LIST OF ASSEMBLIES							
		1..D AMP_SS ASSY	AWH7116	NSP	1..INTERFACE REG_S ASSY	AWR7305	
					2..INTERFACE_S ASSY	AWX2138	
NSP	1..AUDIO COMPOSITE ASSY	AWR7287			2..IR REG_S ASSY	AWX2142	
	2..AUDIO ASSY	AWX2075			2..FILTER_S ASSY	AWX2143	
	2..COMPOSITE ASSY	AWX2084			2..CONNECT_S ASSY	AWX2147	
	2..D-AUDIO BRIDGE ASSY	AWX1772			2..OPT COAX_S ASSY	AWX2148	
	2..A-DAC BRIDGE ASSY	AWX1774		NSP	2..TRANS VREG STYL_S ASSY	AWX1890	
	2..FAN CONNECT ASSY	AWX1775					
	2..PRE BRIDGE_S ASSY	AWX1889		NSP	1..PRE POWER_S ASSY	AWR7315	
NSP	1..PRIM DISPLAY ASSY	AWM8416			2..A-REG_S ASSY	AWX2171	
	2..DISPLAY ASSY	AWX2025			2..V-REG_S ASSY	AWX2175	
	2..VOL ASSY	AWX2029			2..D-FILTER BRIDGE_S ASSY	AWX1859	
	2..POWER SW ASSY	AWX2030			2..VREG CHILD_S ASSY	AWX2176	
	2..PRIMARY ASSY	AWX2037			2..USB RECT_S ASSY	AWX2177	
	2..MIC HP ASSY	AWX2047			2..BIND DM CABLE_S ASSY	AWX1863	
	2..ENCODER ASSY	AWX2051		NSP	2..P WIRE GUARD_S ASSY	AWX1864	
	2..MIC HP GUARD ASSY	AWX2052		NSP	2..FFC GUARD_S ASSY	AWX1862	
NSP	2..VREG GUARD ASSY	AWX2053		NSP	2..BINDFAN CABLE_S ASSY	AWX1865	
NSP	2..PANEL GUARD ASSY	AWX2054					
	1..COMPONENT ASSY	AWX2104			1..IR INTERFACE_S ASSY	AWX1778	
					2..IR INTERFACE_S ASSY	AWX1778	
NSP	1..IR BUFFER_S ASSY	AWM8430		NSP	2..IR EDGE GUARD_S ASSY	AWX1779	
	2..IR_BUFFER_S ASSY	AWX2100					
	2..BUFFER GND ASSY	AWX1789			1..DIGITAL MAIN_L ASSY	AWX2021	
					2..NETWORK MODULE	AXX7293	
					1..FRONT HDMI USB ASSY	AWX2114	
					AM/FM Tuner Unit	AXX7282	

3.3 JIGS LIST

[1] Jigs List

A

Name	Jig No.	Remarks
15P FFC extension jig cable	GGD1680	Diagnosis for AUDIO ASSY, D AMP_SS ASSY
29P board to board extension jig cable	GGD1856	Diagnosis for AUDIO ASSY, D AMP_SS ASSY, DIGITAL MAIN_L ASSY (side-B), OPT COAX_S ASSY
20P board to board extension jig cable	GGD1868	Diagnosis for AUDIO ASSY
5P PH Housing ASSY extension jig cable	GGD1594	Diagnosis for AUDIO ASSY, D AMP_SS ASSY
4P PH Housing ASSY extension jig cable	GGD1809	Diagnosis for AUDIO ASSY, D AMP_SS ASSY
24P board to board extension jig cable x 2	GGD1871	Diagnosis for D AMP_SS ASSY
23P board to board extension jig cable	GGD1875	Diagnosis for DIGITAL MAIN_L ASSY (side-B), OPT COAX_S ASSY
23P board to board extension jig cable	GGD1805	Diagnosis for DIGITAL MAIN_L ASSY (side-B), OPT COAX_S ASSY
27P board to board extension jig cable	GGD1873	Diagnosis for DIGITAL MAIN_L ASSY (side-B), OPT COAX_S ASSY, FILTER_S ASSY
15P board to board extension jig cable	GGD1876	Diagnosis for DIGITAL MAIN_L ASSY (side-B), OPT COAX_S ASSY, FILTER_S ASSY
28P board to board extension jig cable	GGD1867	Diagnosis for FILTER_S ASSY
20P board to board extension jig cable	GGD1868	Diagnosis for FILTER_S ASSY

B

C

[2] Lubricants and Glues List

D

Name	Lubricants and Glues No.	Remarks
Silicone Grease	GYA1001	Refer to “9.5 FRONT SECTION”.

[3] Cleaning



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

E

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

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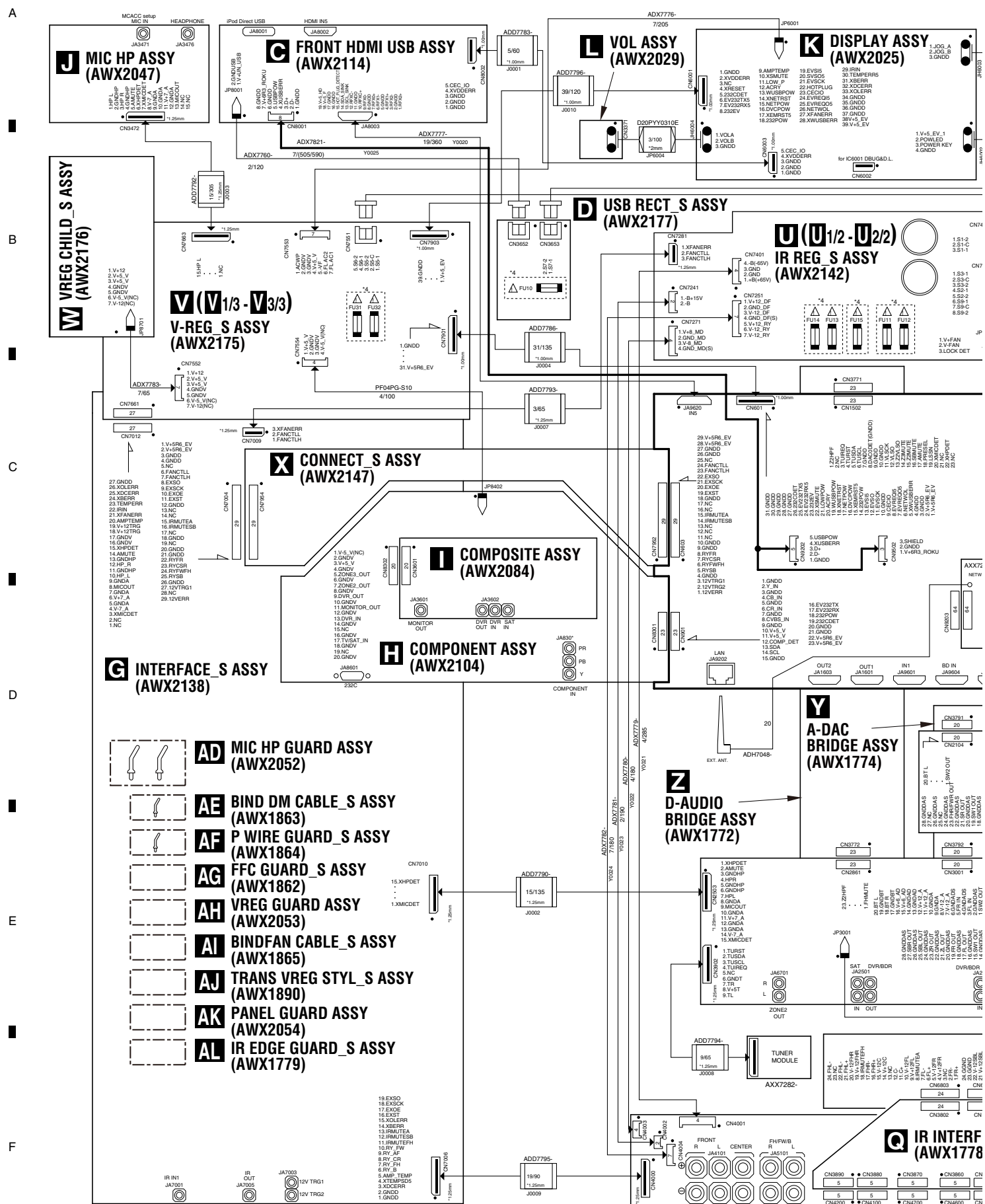
■

8

■

SC-91

4.1 OVERALL WIRING DIAGRAM



Y ASSY (AWX25)

1. JOG_A
2. JOG_B
3. GND

ENCODER ASSY (AWX2051)

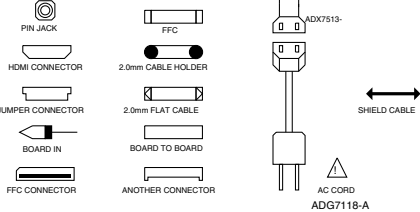
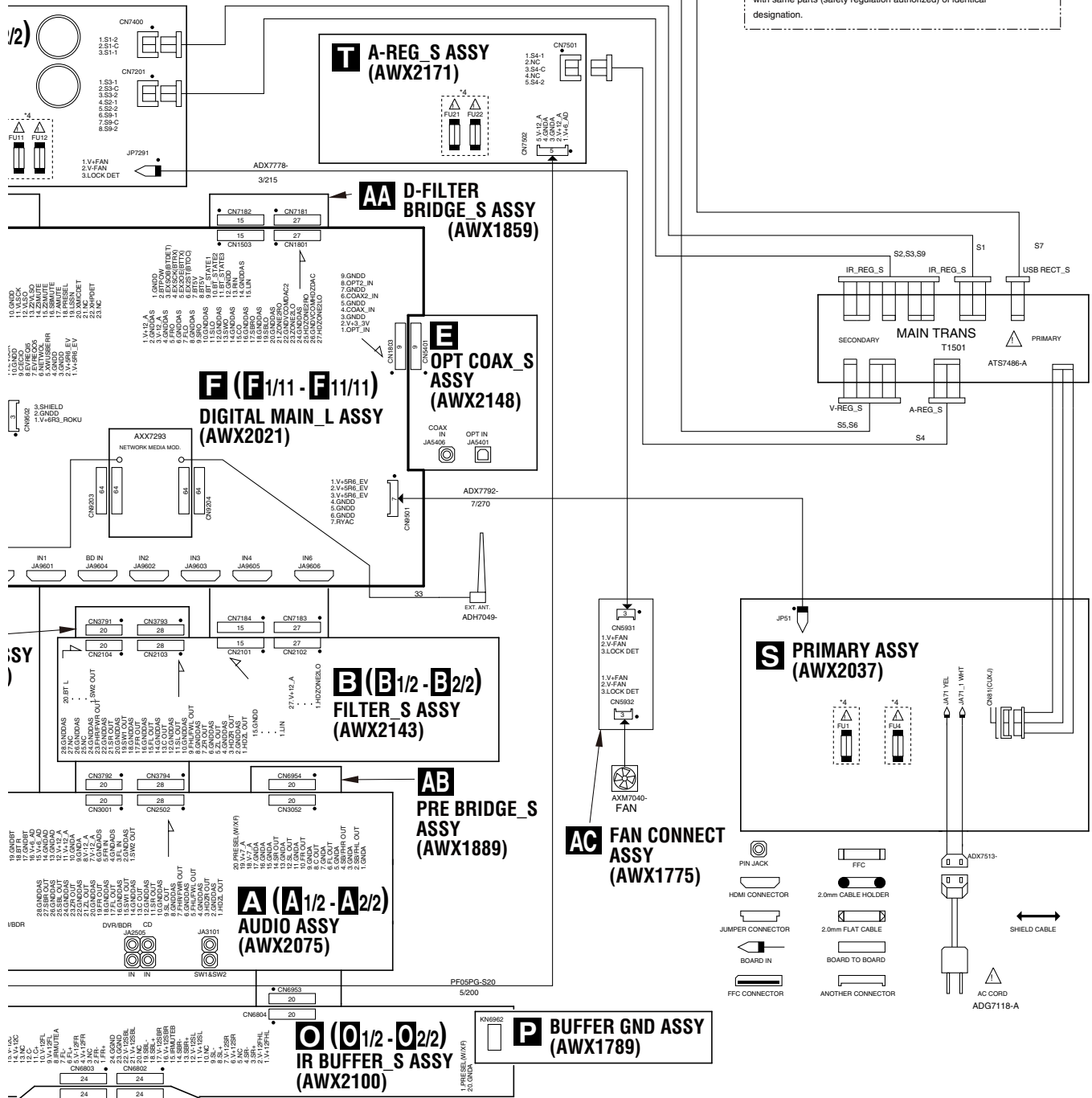
POWER SW ASSY (AWX2030)

- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The Δ 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.

MODEL	FU1	FU4	FU10	FU11,FU12	FU13,FU14	FU15	FU21,FU22	FU31,FU32
SC-91	CUXJ	REK1154- (10A/125V)	REK1139- (12A/250V)	REK1151- (6A/125V)	REK1143- (1.25A/125V)	REK1142- (1A/125V)	REK1143- (1.25A/125V)	REK1144- (1.6A/125V)

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

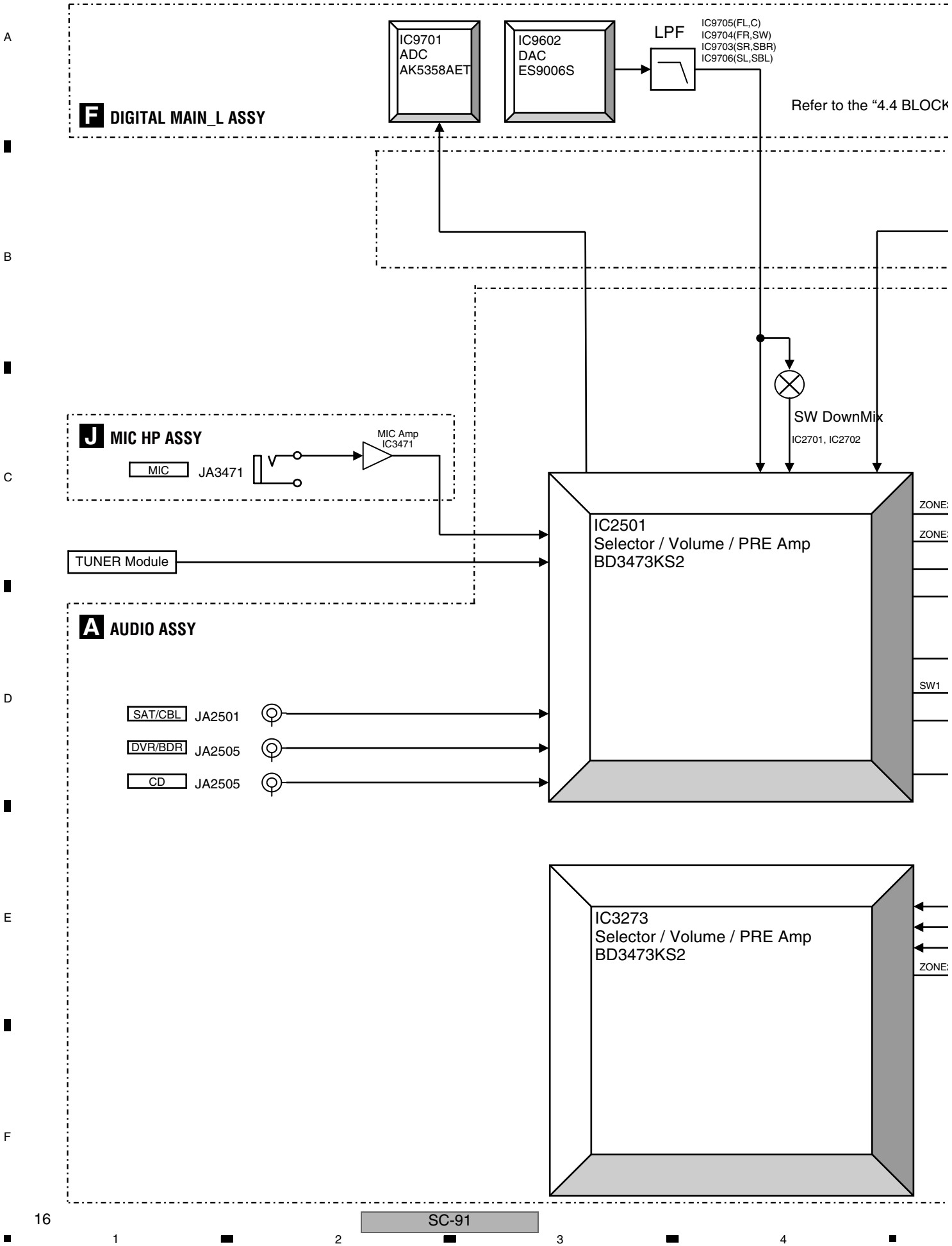
The Δ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.



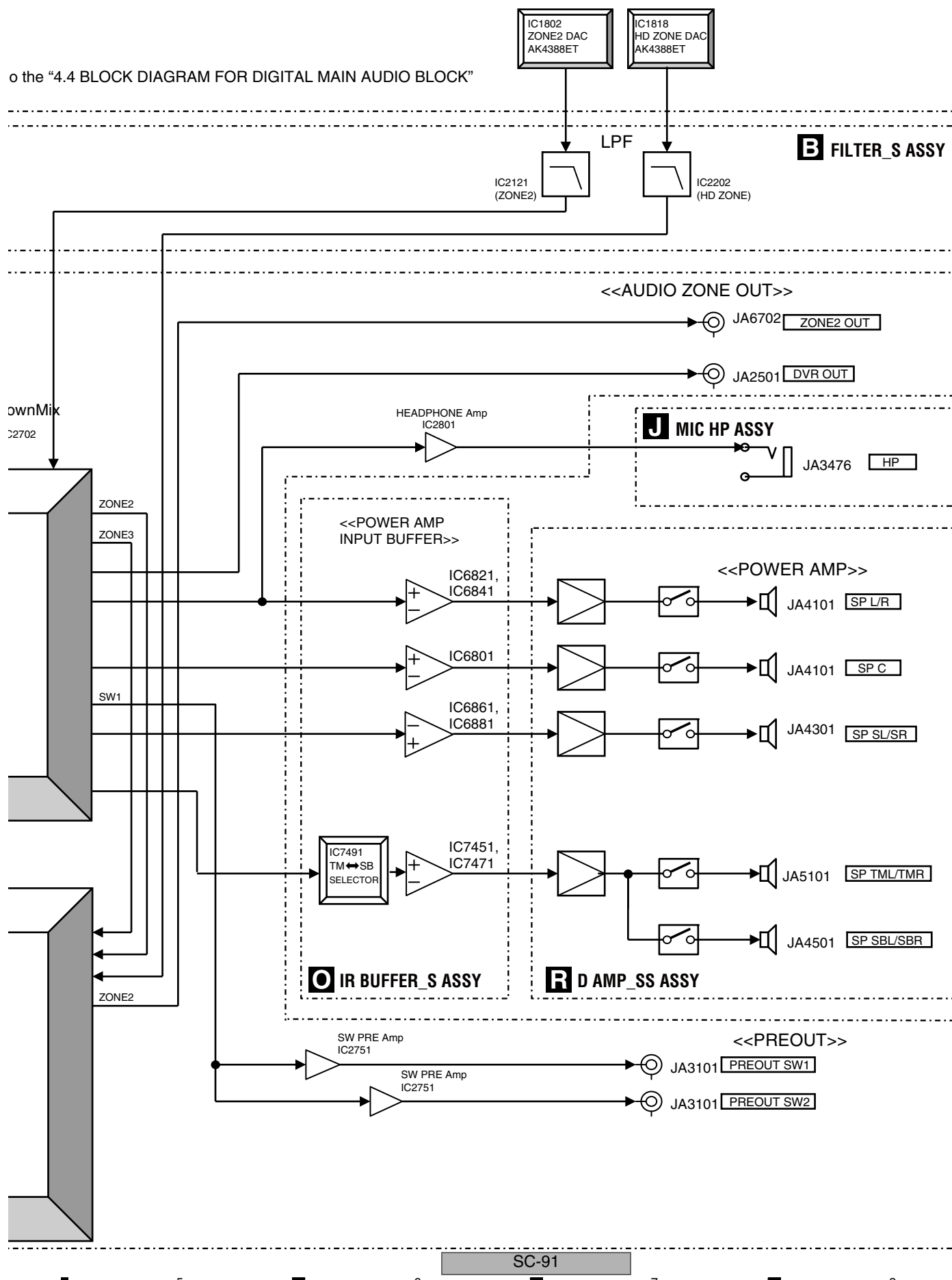
*Furnished parts

MODEL	MICROPHONE	REMO-COM	iPod CABLE
SC-91	CUXJ	APM7011-	AXD7723-

4.2 BLOCK DIAGRAM FOR AUDIO BLOCK



o the "4.4 BLOCK DIAGRAM FOR DIGITAL MAIN AUDIO BLOCK"



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B

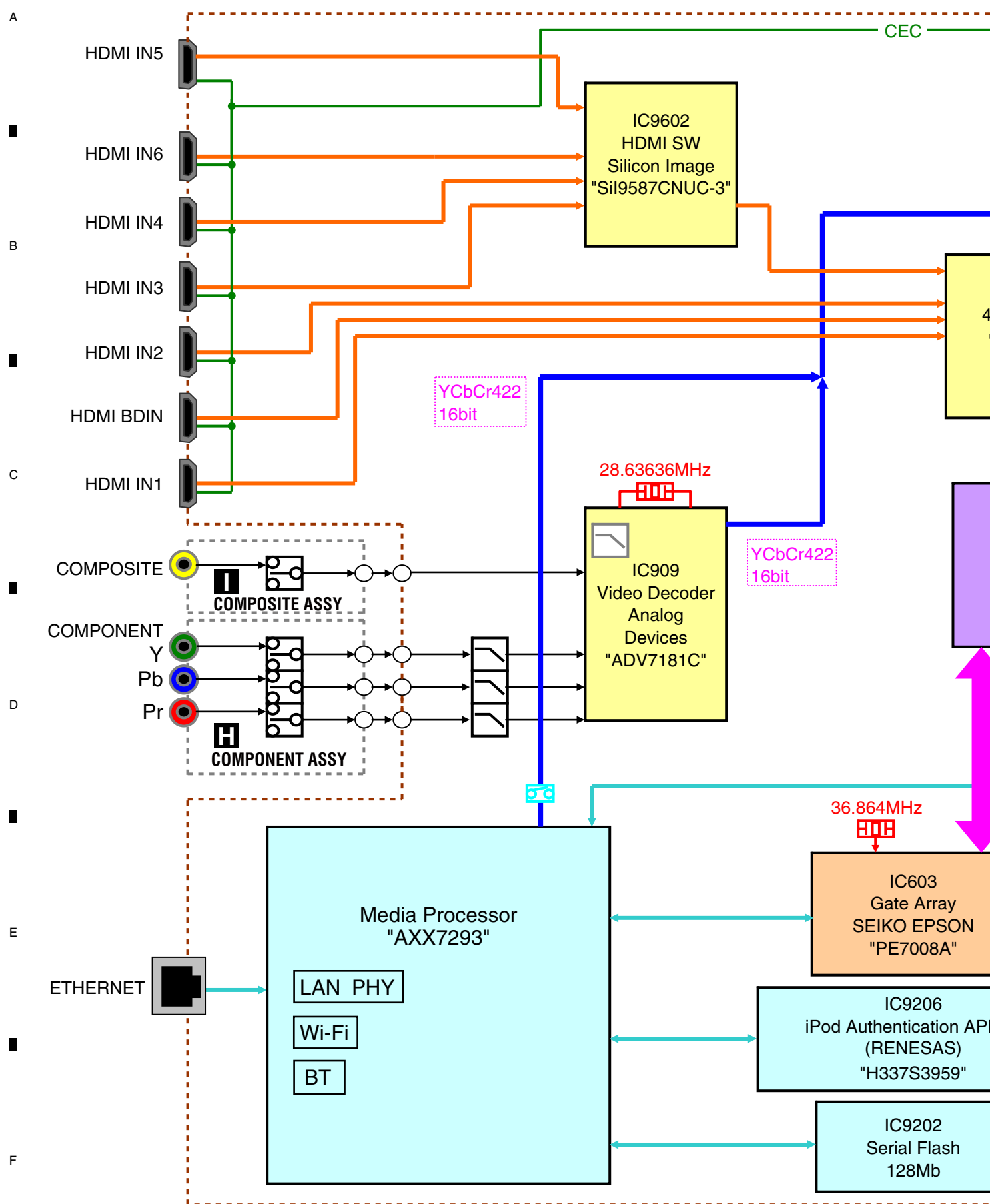
C

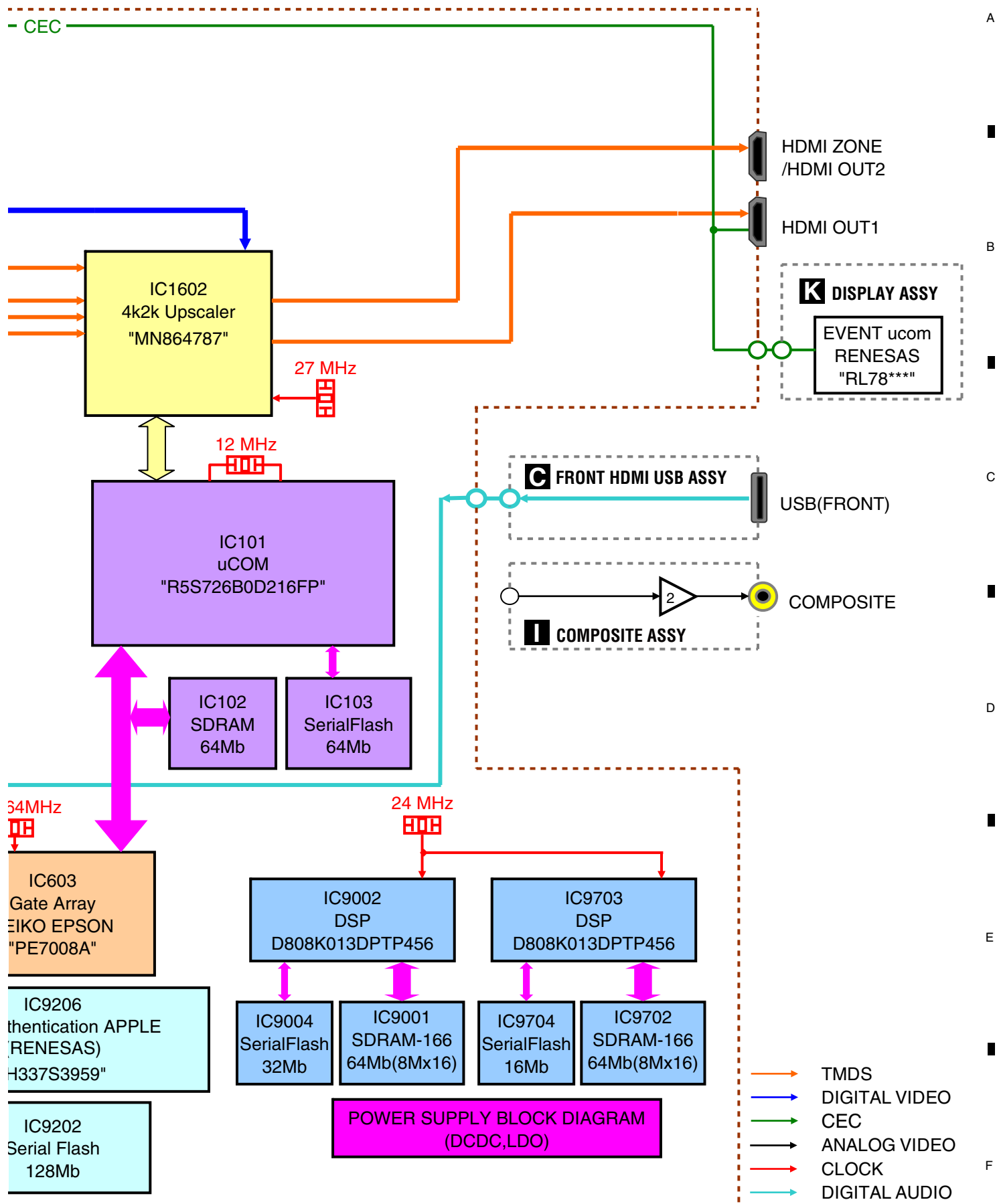
D

E

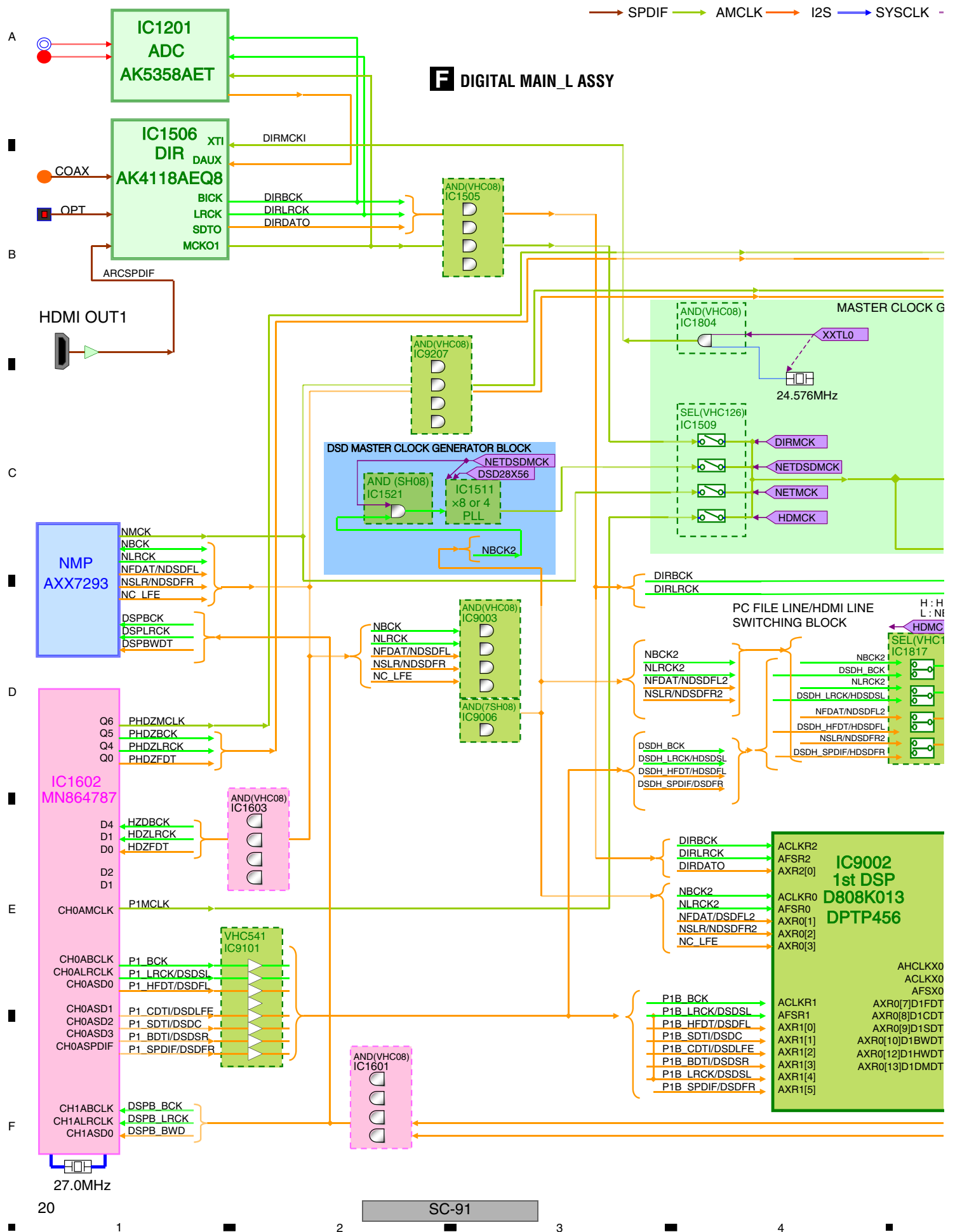
F

4.3 BLOCK DIAGRAM FOR DIGITAL MAIN VIDEO BLOCK

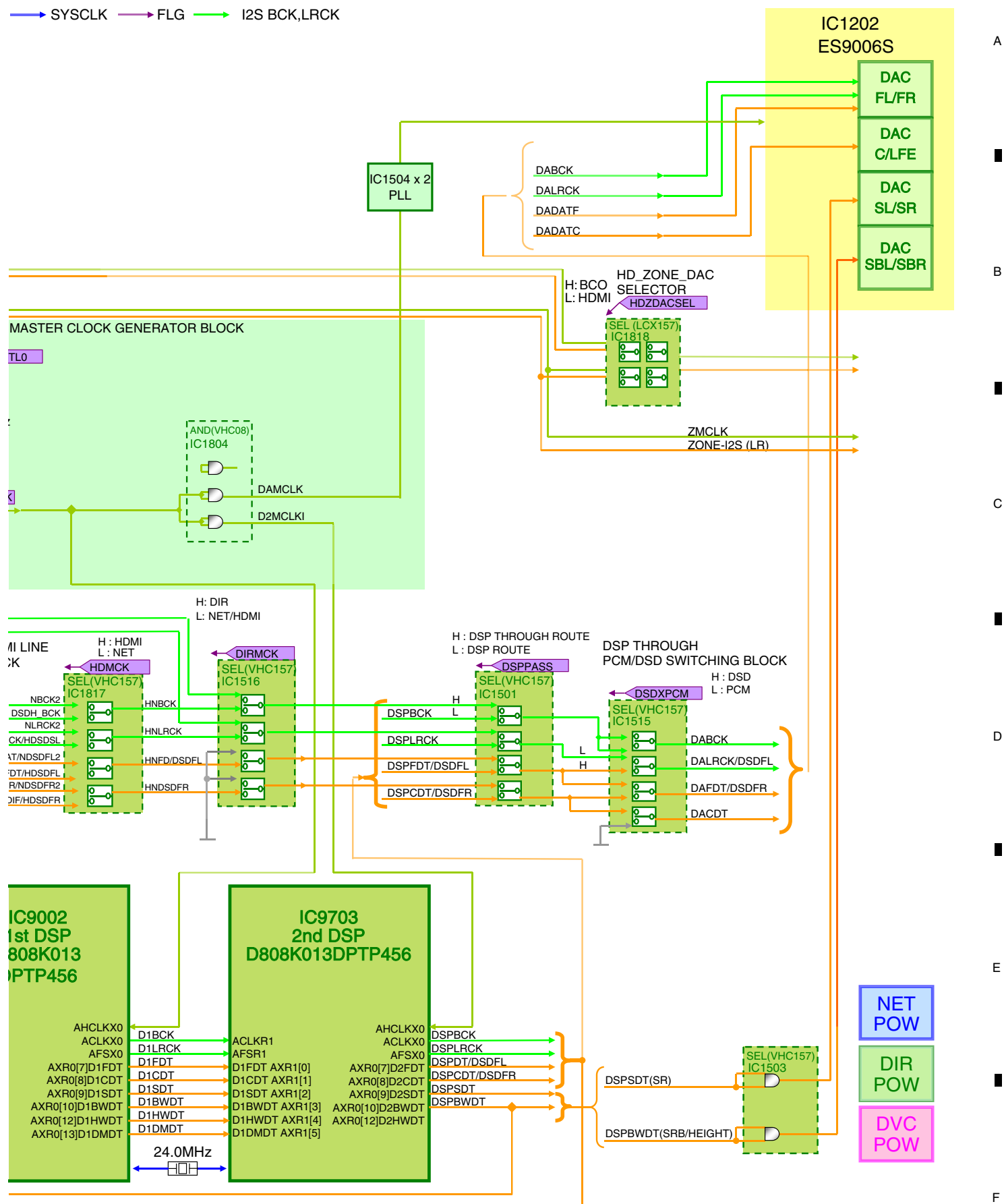




4.4 BLOCK DIAGRAM FOR DIGITAL MAIN AUDIO BLOCK

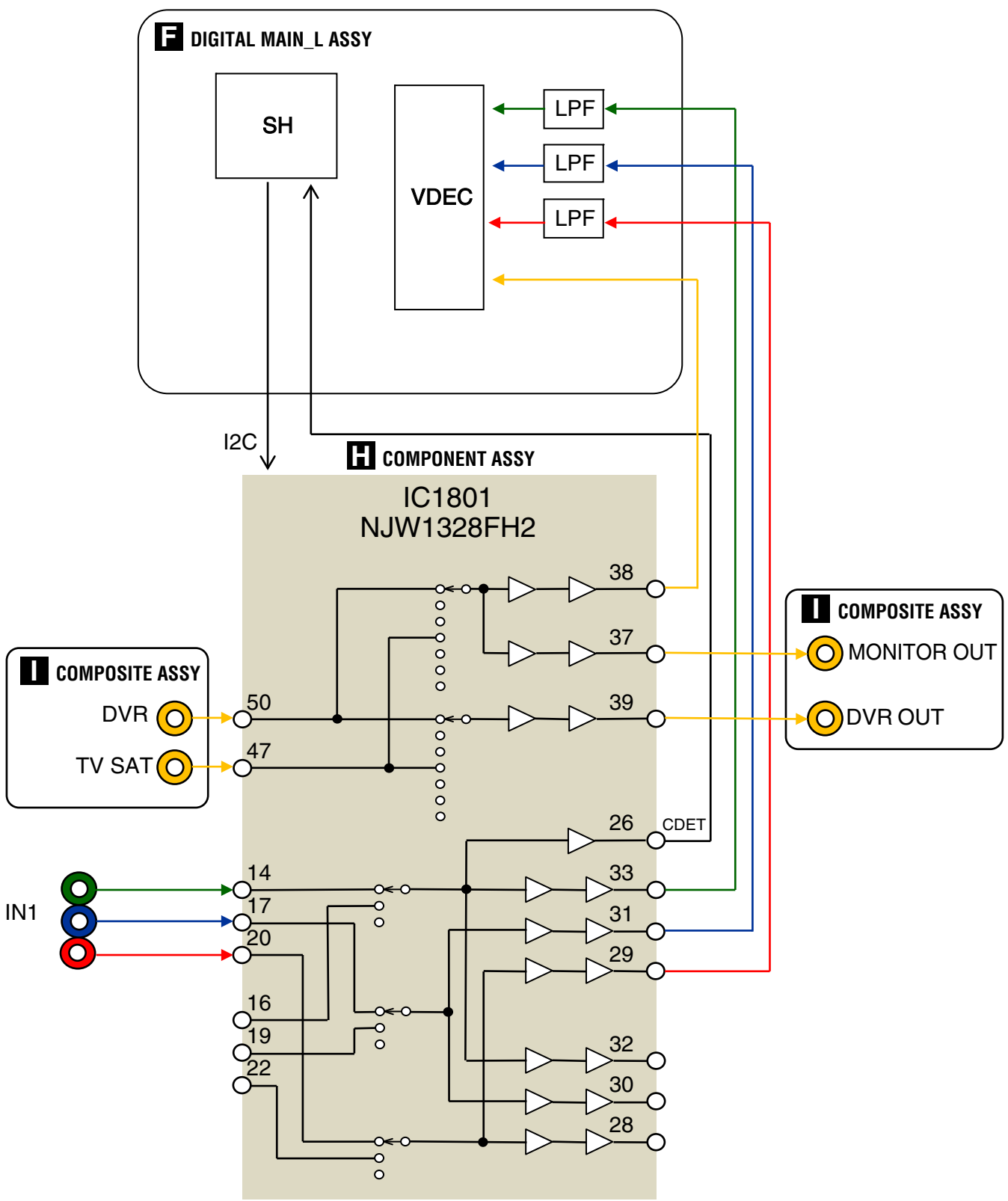


→ SYSCLK → FLG → I2S BCK,LRCK



4.5 BLOCK DIAGRAM FOR VIDEO BLOCK

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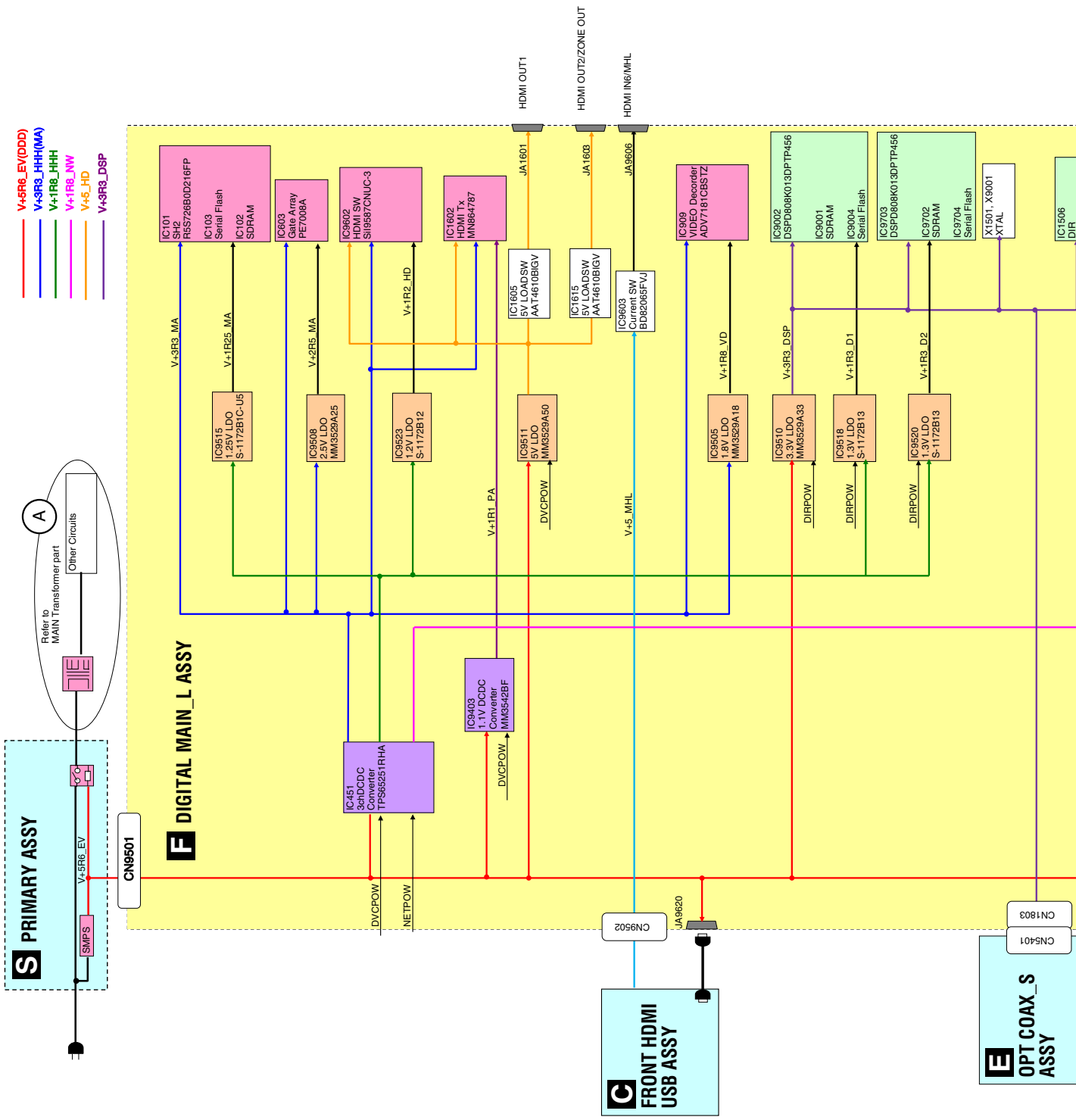
8

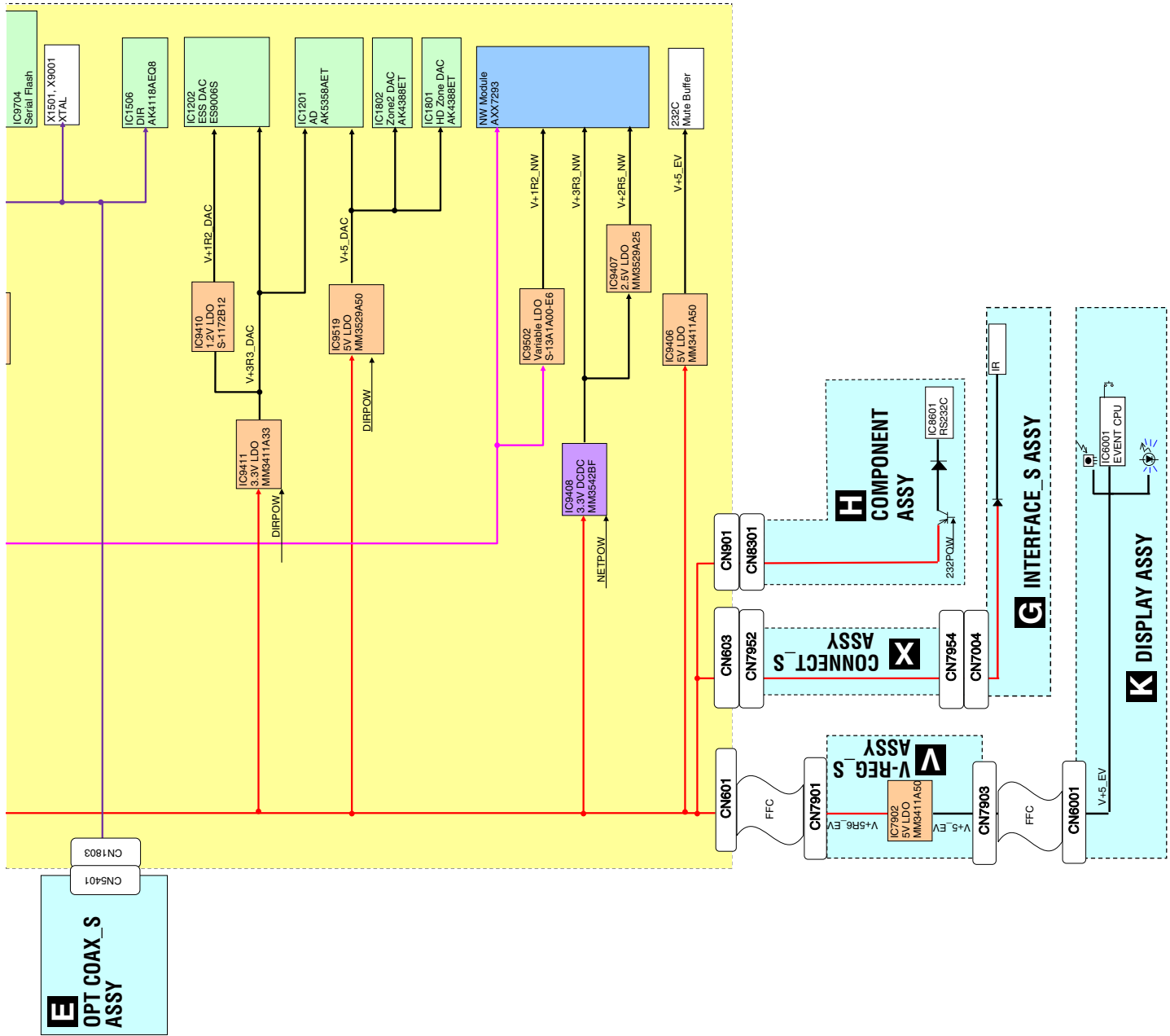
■

SC-91

4.6 BLOCK DIAGRAM FOR POWER BLOCK (1)

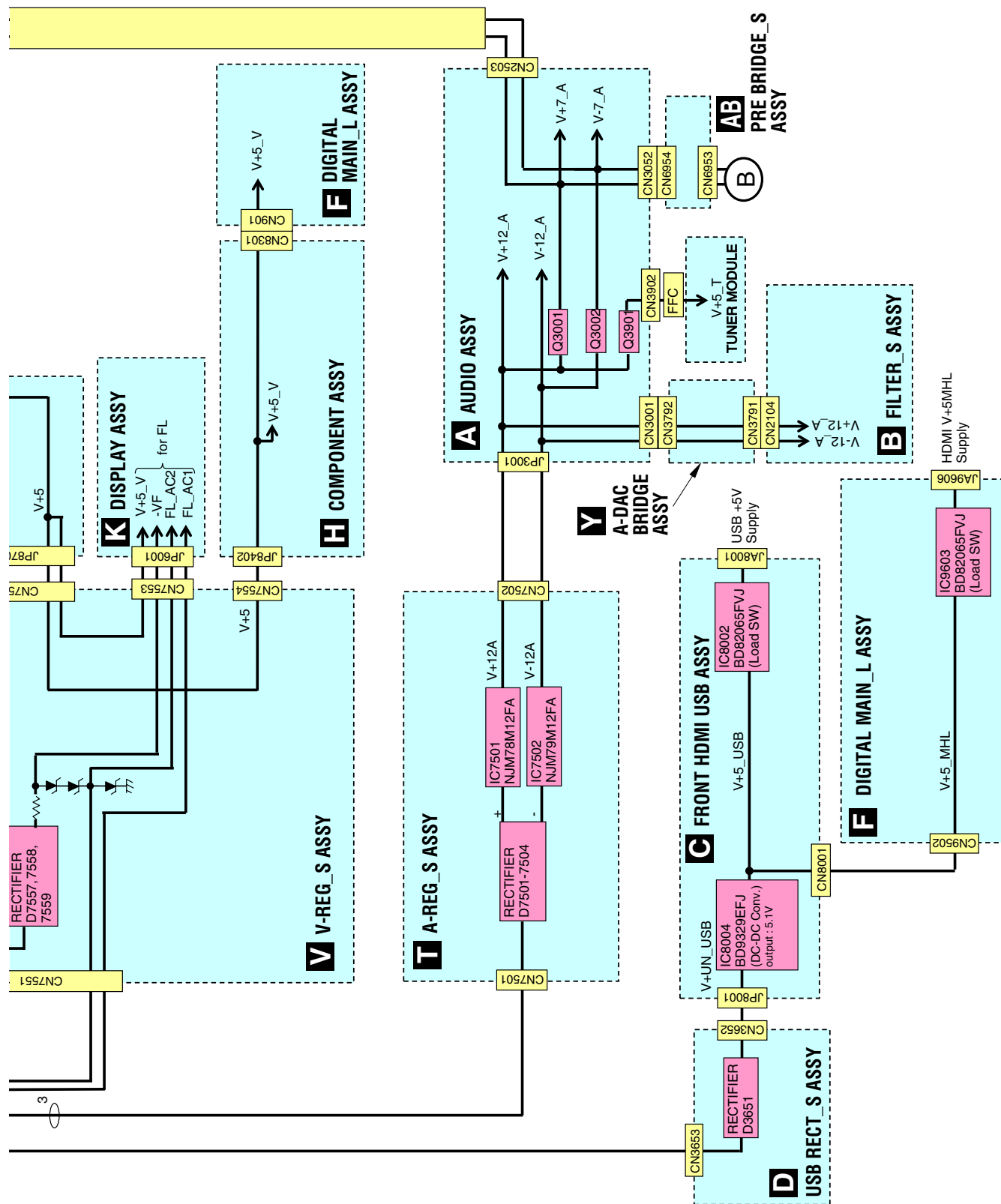
A
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26



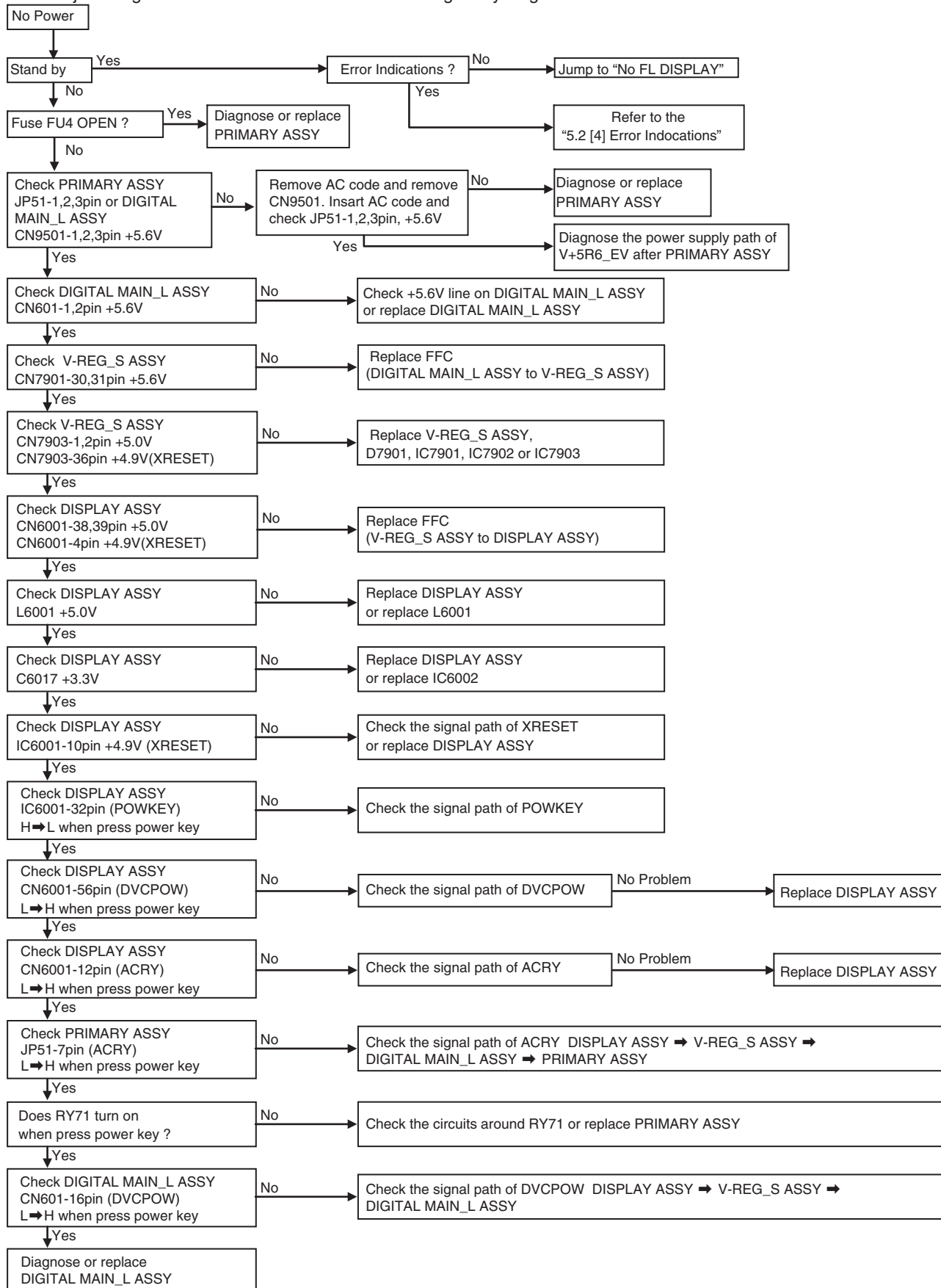


5. DIAGNOSIS

5.1 DIAGNOSIS FLOWCHART

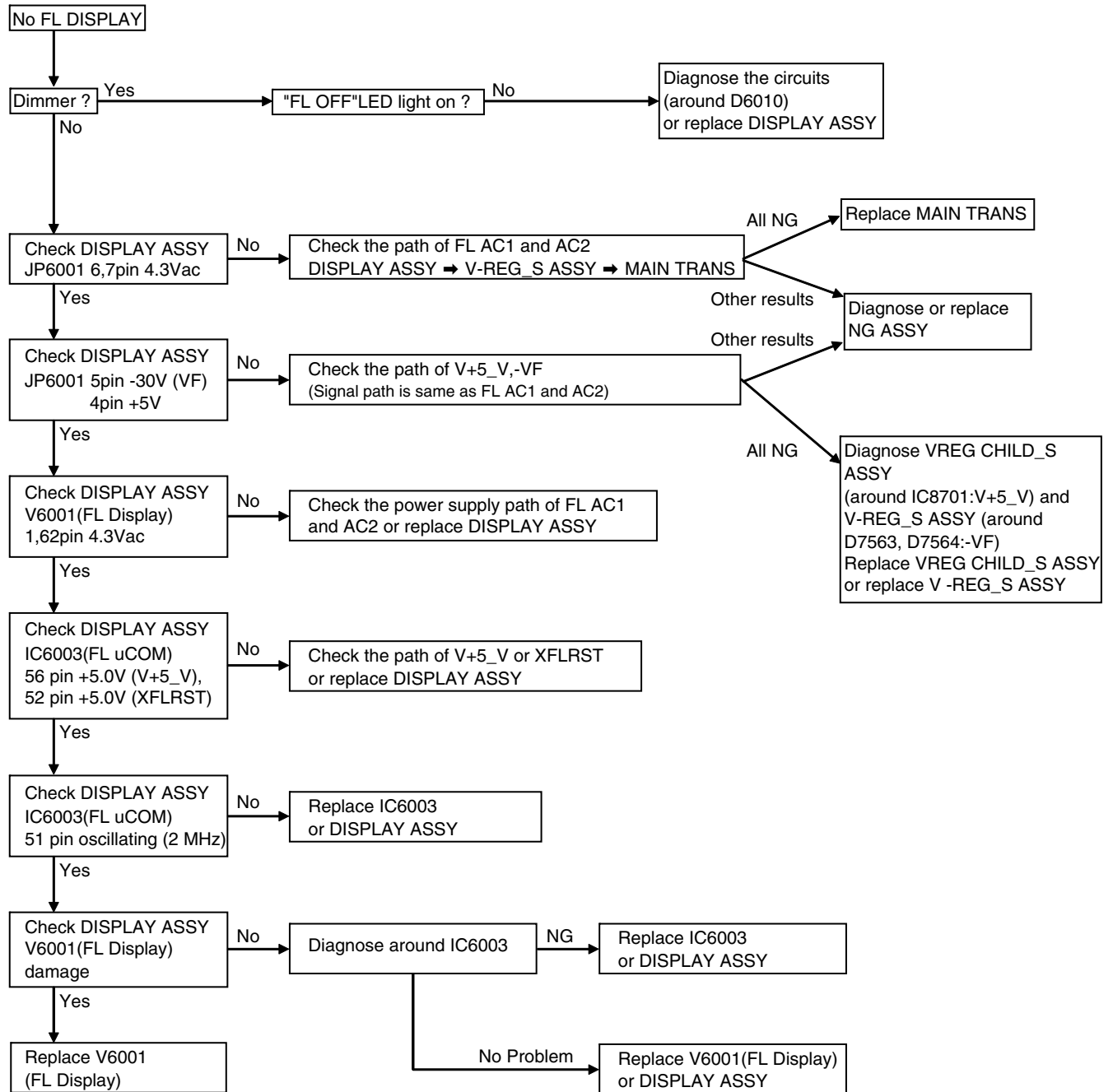
NO POWER

This is just for general reference and does not including every single case.



NO FL DISPLAY

This is just for general reference and does not including every single case.

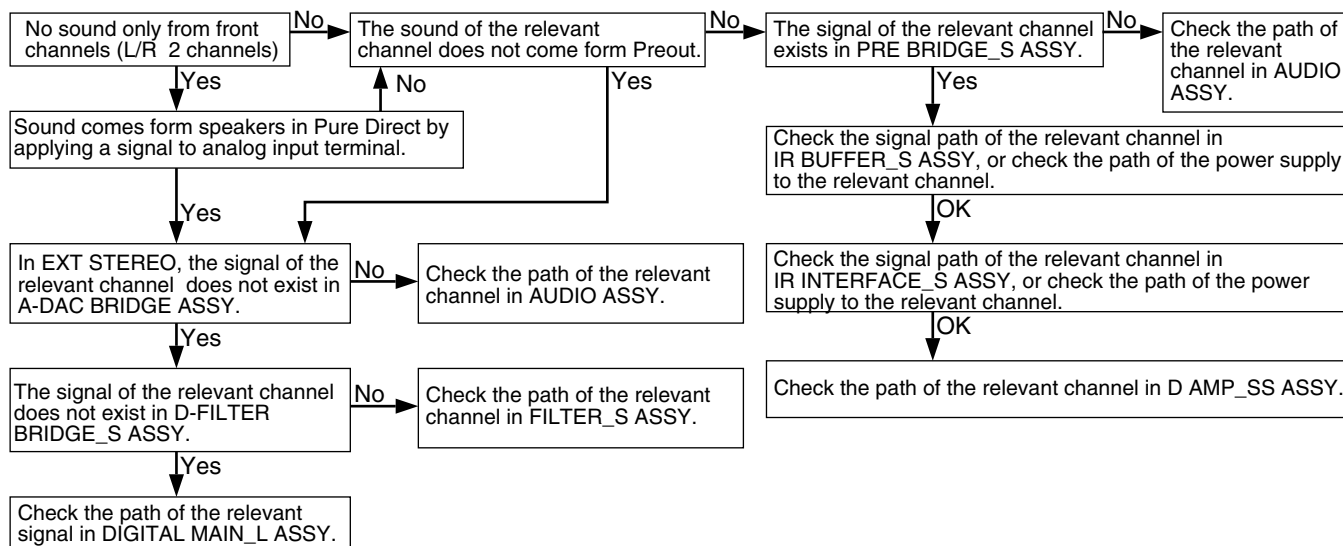


NO SOUND (Except for troubles caused by setting and others)

EXT STEREO mode : 2ch signals are distributed to all channels.

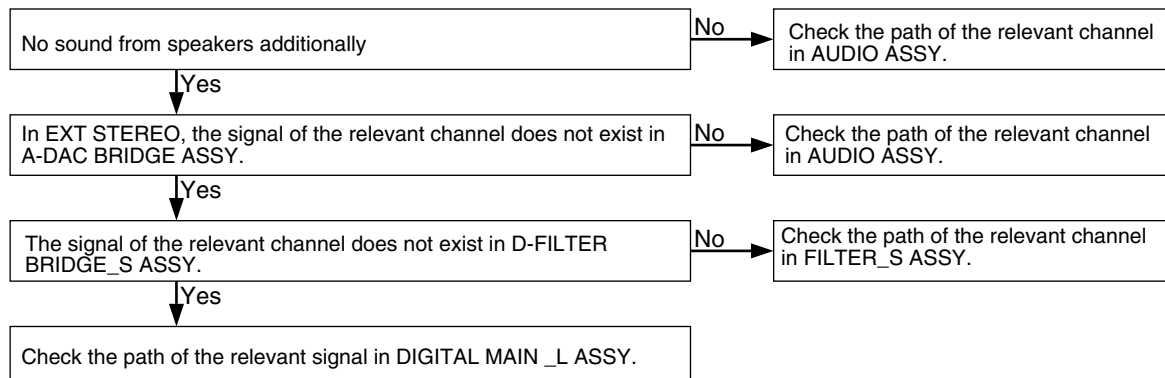
OPTIMUM Surr mode : Surround mode of headphones

- **No sound from speakers (Single channel - Check only the signal path of the relevant channel. Plural channels - There may be troubles with power source, control signals: MUTE, DET and others. Bad connection of cables and connectors should be also considered.)**

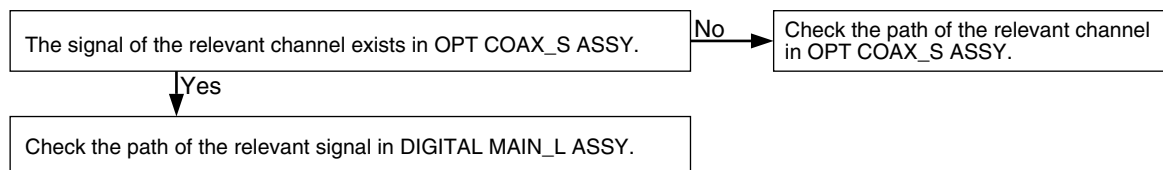


- **No sound only from Preout (Single channel - Check only the signal path of the relevant channel. Plural channels - There may be troubles with power source, control signals: MUTE, DET and others. Bad connection of cables and connectors should be also considered.)**

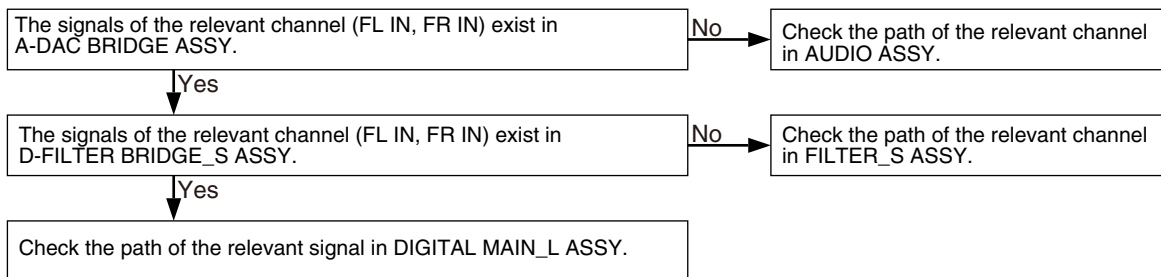
No sound only in DVROUT - Check the relevant path in AUDIO ASSY .



- **No sound only in COAX and OPT input (Single channel - Check only the signal path of the relevant channel. Plural channels - There may be troubles with power source, control signals: MUTE, DET and others. Bad connection of cables and connectors should be also considered.)**

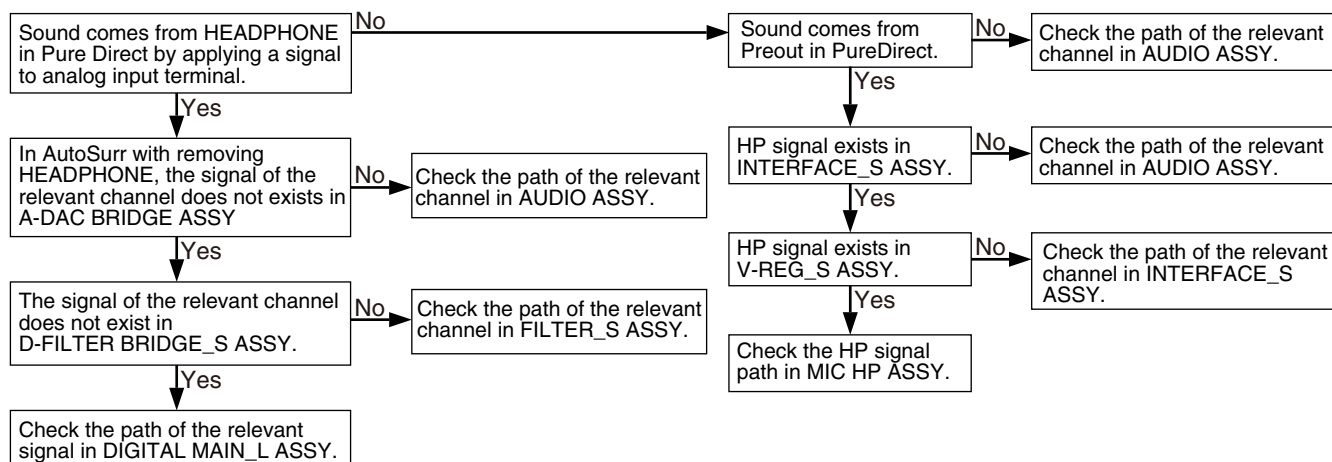


- **No sound only in AutoSurr in analog input (Single channel - Check only the signal path of the relevant channel. Plural channels - There may be troubles with power source, control signals: MUTE, DET and others. Bad connection of cables and connectors should be also considered.)**



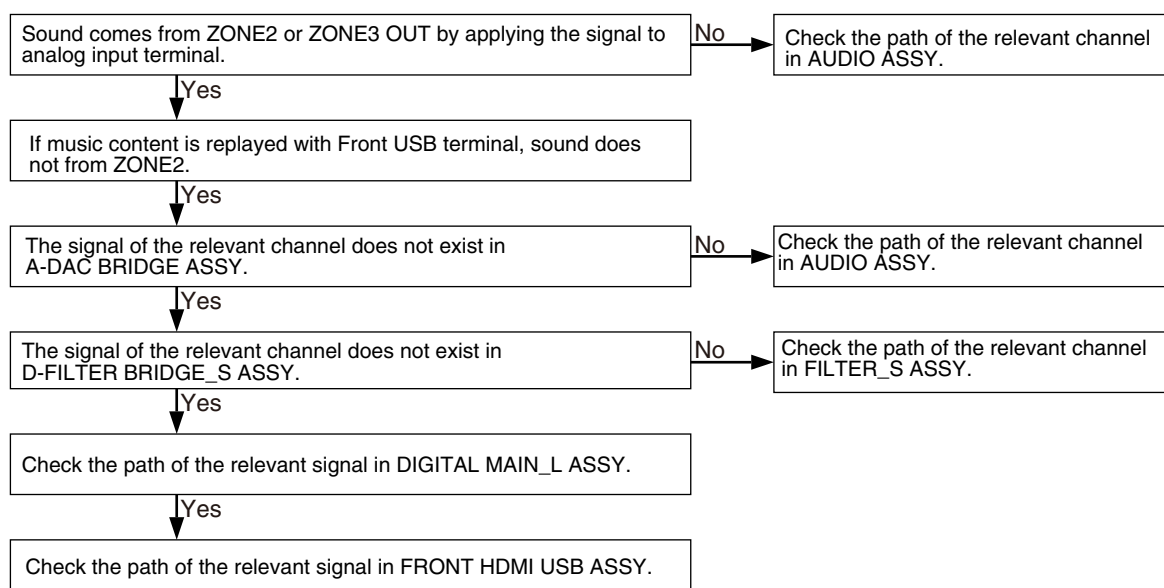
- **No sound from HEADPHONES (Single channel - Check only the signal path of the relevant channel. Plural channels - There may be troubles with power source, control signals: MUTE, DET and others. Bad connection of cables and connectors should be also considered.)**

If it is impossible to change to HEADPHONE, check the path of XHPDET signal.



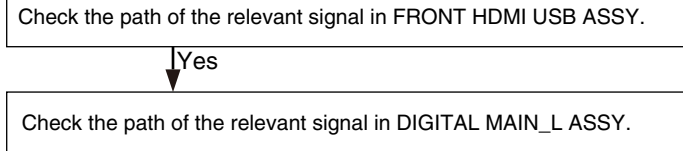
- **No sound only from ZONE (Single channel - Check only the signal path of the relevant channel. Plural channels - There may be troubles with power source, control signals: MUTE, DET and others. Bad connection of cables and connectors should be also considered.)**

No sound only in ZONE SW - Check the relevant path in AUDIO ASSY.



- **No sound only from FRONT USB terminal or only from MHL terminal (There may be troubles with the power source of circuit and control signals. Bad connection of cables and connectors should be also considered.)**

A

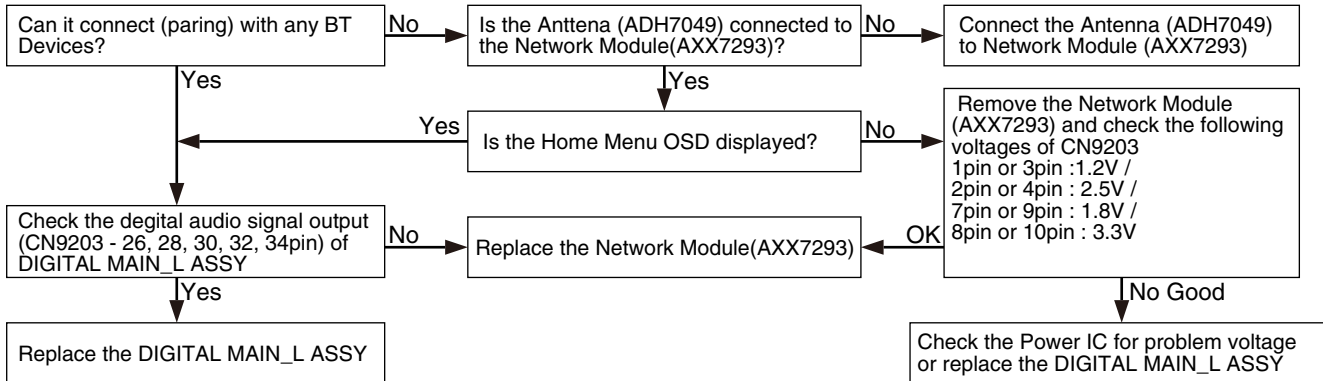


- **No sound only in HDMI, MEDIA SERVER and INTERNET RADIO (There may be troubles with the power source of circuit and control signals. Bad connection of cables and connectors should be also considered.)**

Check the path of the relevant signal in DIGITAL MAIN_L ASSY.

- **No sound only in BT (Single channel - Check only the signal path of the relevant channel. Plural channels - There may be troubles with power source, control signals: MUTE, DET and others. Bad connection of cables and connectors should be also considered.)**

B



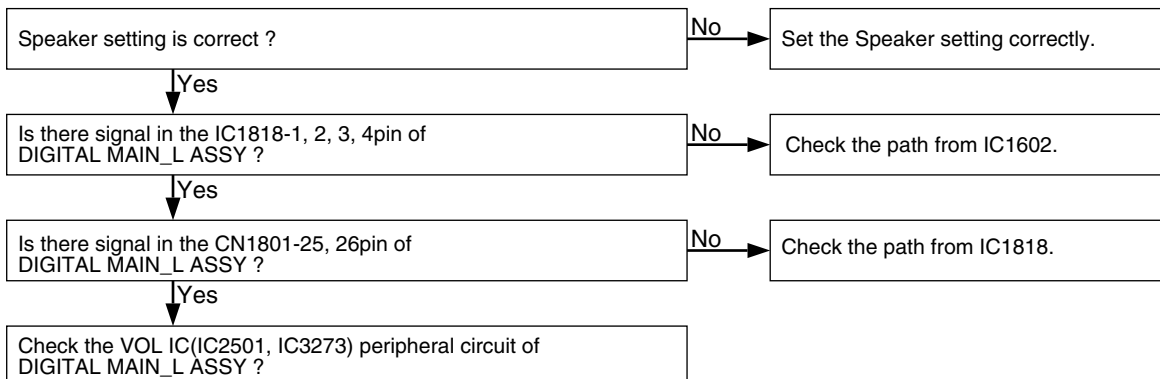
C

- **No sound only in tuner (There may be troubles with the power source of circuit and control signals. Bad connection of cables and connectors should be also considered.)**

Check the path of the relevant channel in AUDIO ASSY, and check TUNER MODULE.

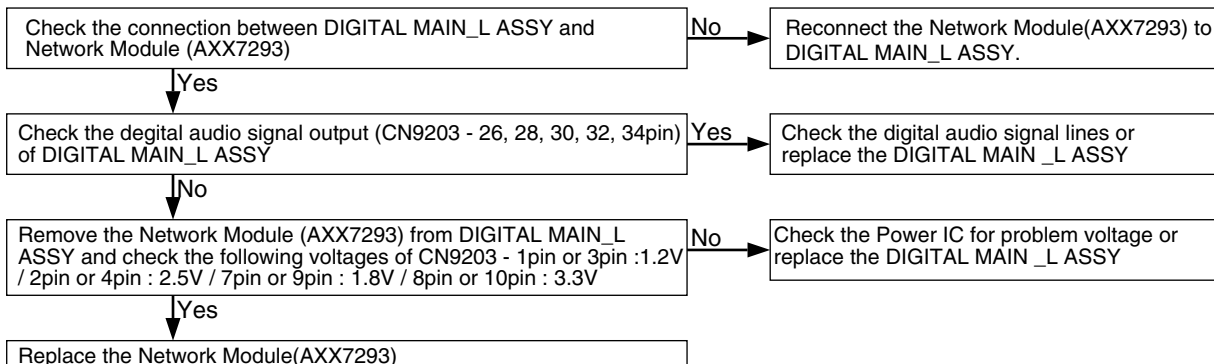
- **No sound only in POWERD HD ZONE**

D



- **No sound by MEDIA SERVER, INTERNET RADIO, FRONT USB, BT and Wi-Fi**

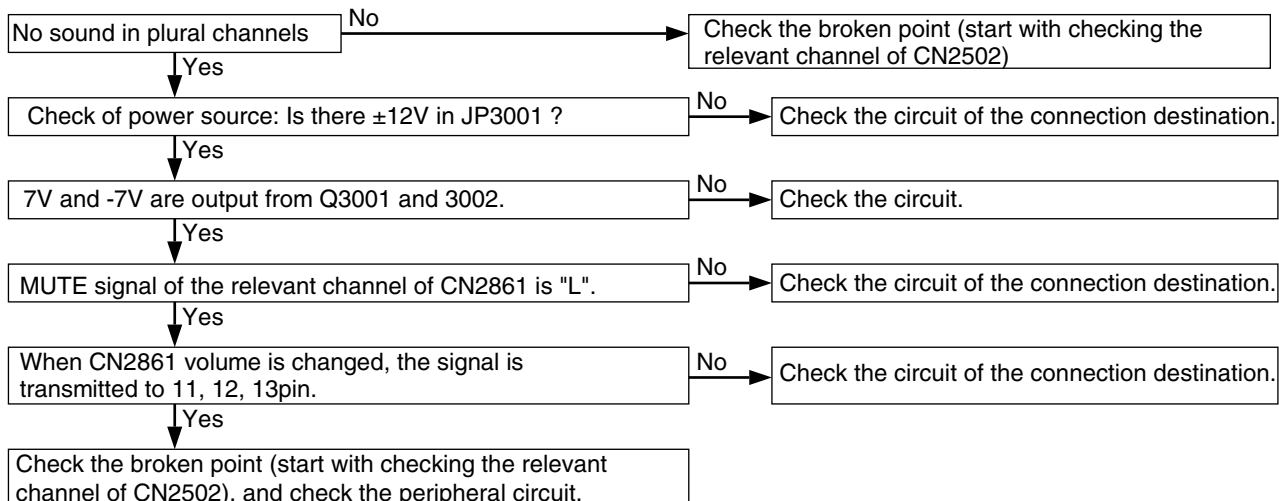
E



F

AUDIO ASSY DIAGNOSIS

■ No sound in plural input modes of speaker and Preout



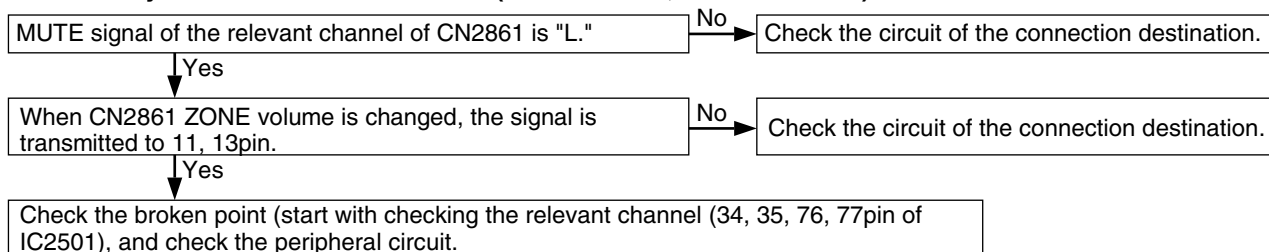
■ No sound only in analog input

Check the path from each input terminal to IC2501.

■ No sound only from HEADPHONES

Check the peripheral of IC2801.

■ No sound only from ZONE 2 and ZONE 3 (Both of them, Either of them)



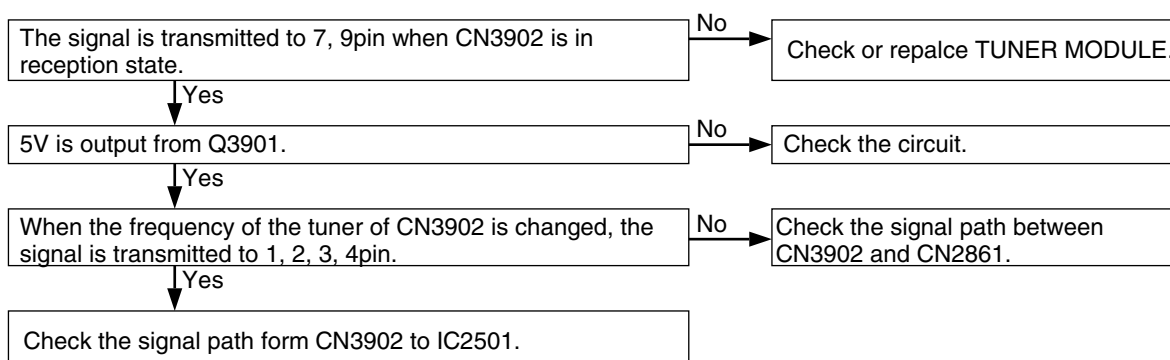
■ No sound only from ZONE 2 of FRONT USB

Check the path from 1, 3pin of CN2502 to IC2501.

■ No sound only in BT

Check the path from 18, 20pin of CN3001 to IC2501.

■ No sound only in Tuner



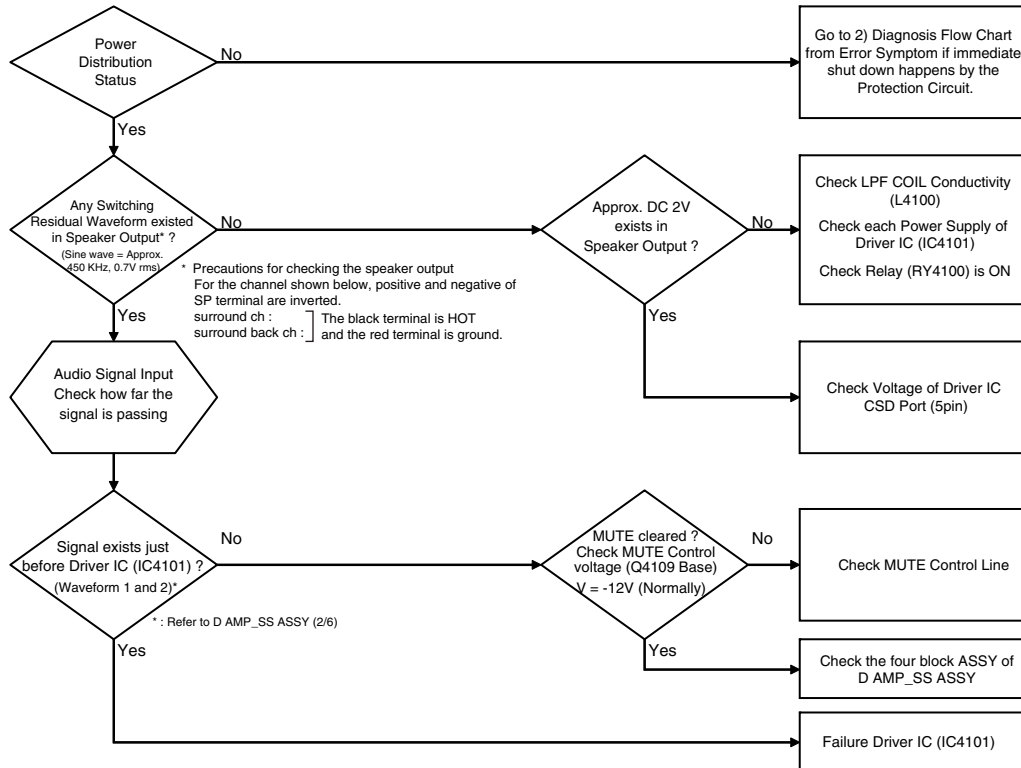
■ No sound only from DVR/BDR OUT

Check the path and circuit between IC2501 and JA2501.

DIGITAL AMP BLOCK FLOWCHART

1) No Sound

A

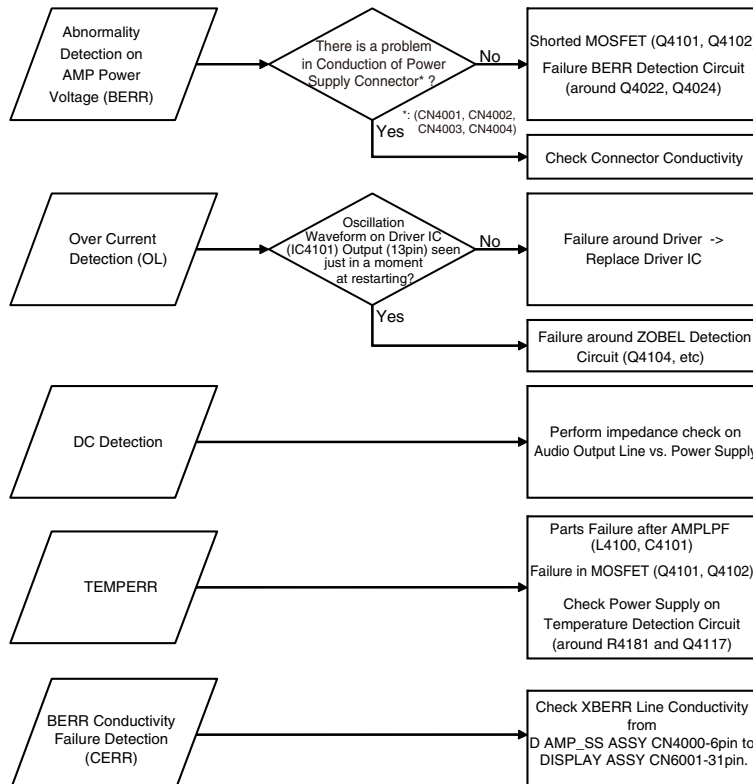


NOTE : Wiring number listed is the example of Front L-ch

2) Diagnosis Flow Chart from Error Symptom

Failure locating method from error symptom is available as diagnosis after product shutdown.
Diagnosis Flow Chart from error symptom due to Amplifier Section is shown here.

D



Cause of being BERR
When B-Power Supply Voltage falls below ± 20 V

Cause of being OL
At Over Current Detected (Not worked with no-load)
At Driver IC not Oscillated
At ZOBEL Detection Circuit Activated
When B-Power Supply Voltage exceeds ± 75 V
Parts Failure after AMPLPF (L4100, Q4101)

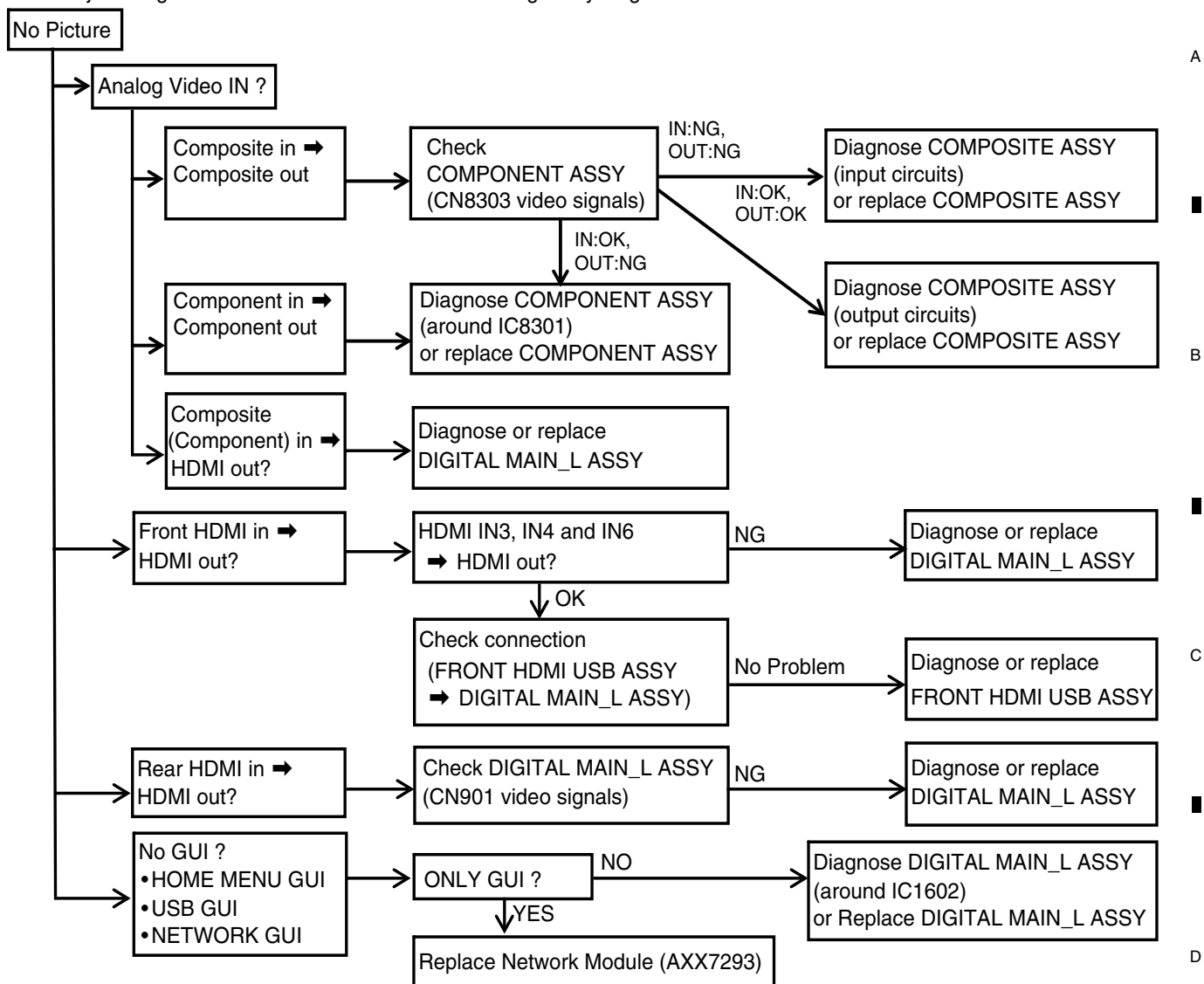
Cause of being DC
When DC 7V or above is output in Audio Output Line

Cause of being TEMPERR
When MOSFET Temperature exceeds approx. 120 degrees
When MOSFET temperature is suddenly increased

F

NO PICTURE

This is just for general reference and does not including every single case.



In case of using 4K/60p-compatible TV and no picture.

The receiver's HDMI input terminals support the 4K/60p signal. However, there are two types of terminals as follows.

- Type 1: 4K/60p 4:4:4 24 bit signal (transmission speed up to 18 Gbps) can be transmitted: BD, DVD (HDMI IN 1), SAT (HDMI IN 2)
- Type 2: 4K/60p 4:2:0 24 bit signal can be transmitted (4K/60p 4:4:4 24 bit signal is not supported, transmission speed up to 10.2 Gbps):
HDMI input terminals other than the above

NOTE: All input terminals are type 2 when HDZONE is turned on.

1. When a source device that does not support the 4K/60p 4:4:4 24 bit signal is connected to a type 1 terminal, the video image may become reddish, sound may not be output, or 3D signals may not be output for some devices. For such devices, try the following.

*This is not a malfunction of the receiver.

- Connect the device to a type 2 terminal instead of the type 1 terminal.
- It is also possible to set all input terminals to type 2. Set the following "HDMI 4K/60p signal output setting" to "4:2:0".

2. When the video image is not output, is interrupted, or there is noise, the cause may be the HDMI cable. (Some HDMI cables do not support 4K/60p 4:4:4 24 bit signal transmission.) In such cases, set the following "HDMI 4K/60p signal output setting" to "4:2:0".

HDMI 4K/60p signal output setting

Operation is performed on the front panel of the unit. You cannot perform the setting if the multizone function is not set to **MULTI ZONE OFF**.

1 Switch the receiver into standby.

2 While holding down ENTER on the front panel, press $\odot$ STANDBY/ON.

The display shows **RESET NO**.

3 Use $\uparrow/\downarrow$ to select '4K/60p'.

4 Use $\leftarrow/\rightarrow$ to select the signal to set.

- **4:4:4** – Select this setting when connecting to a 4K/60p 4:4:4 24 bit compatible TV using HDMI. More high quality video images can be enjoyed.
- **4:2:0** – Select this setting when connecting to a 4K/60p 4:2:0 24 bit compatible TV using HDMI.

5 When you're finished, press RETURN.

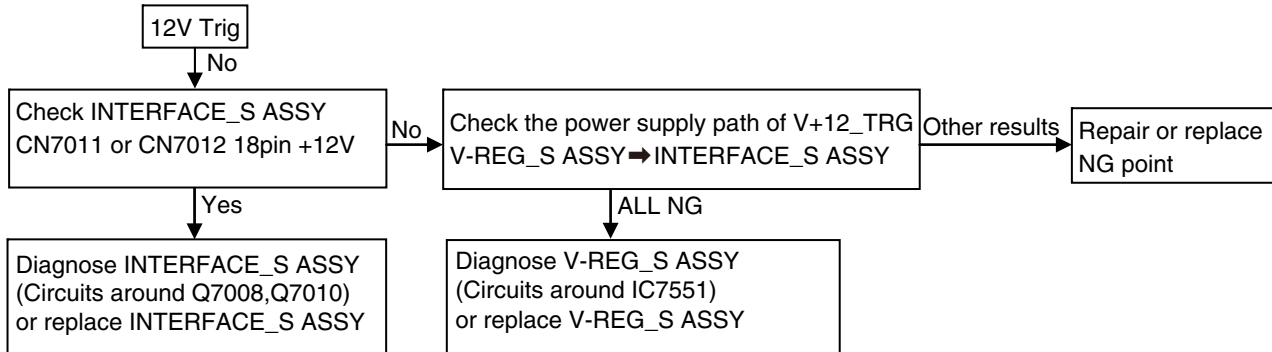
6 Press $\odot$ STANDBY/ON to switch on the receiver and your TV.

Make sure that the TV's video input is set to this receiver.

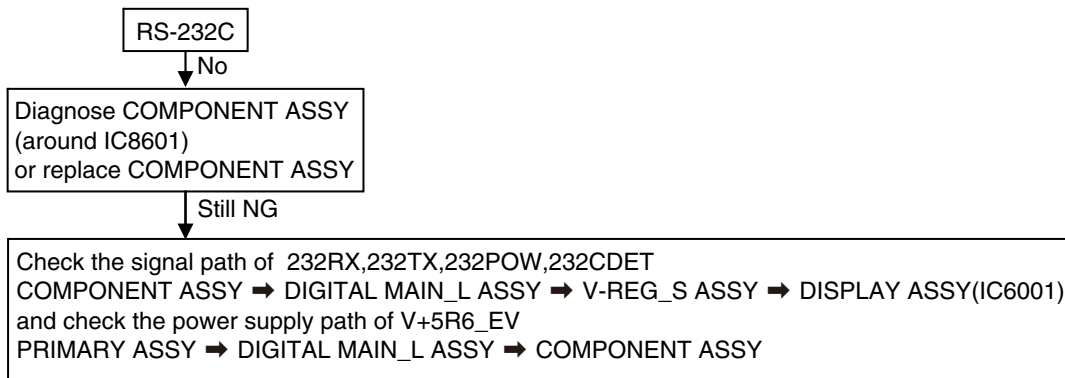
OTHER

This is just for general reference and does not including every single case.

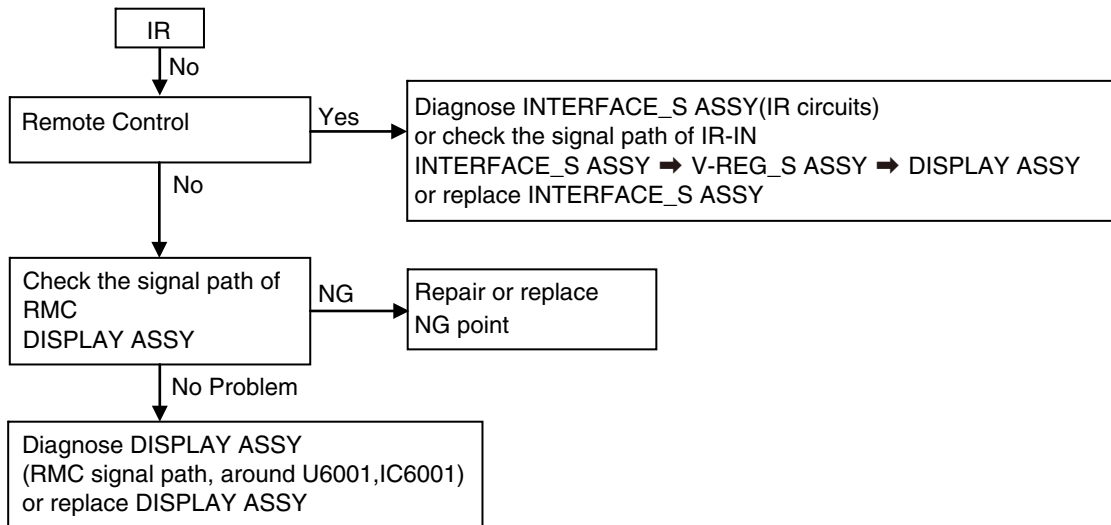
12V Trig



RS-232C



IR



5.2 CIRCUIT DESCRIPTION

[1] Protection Circuit Process List

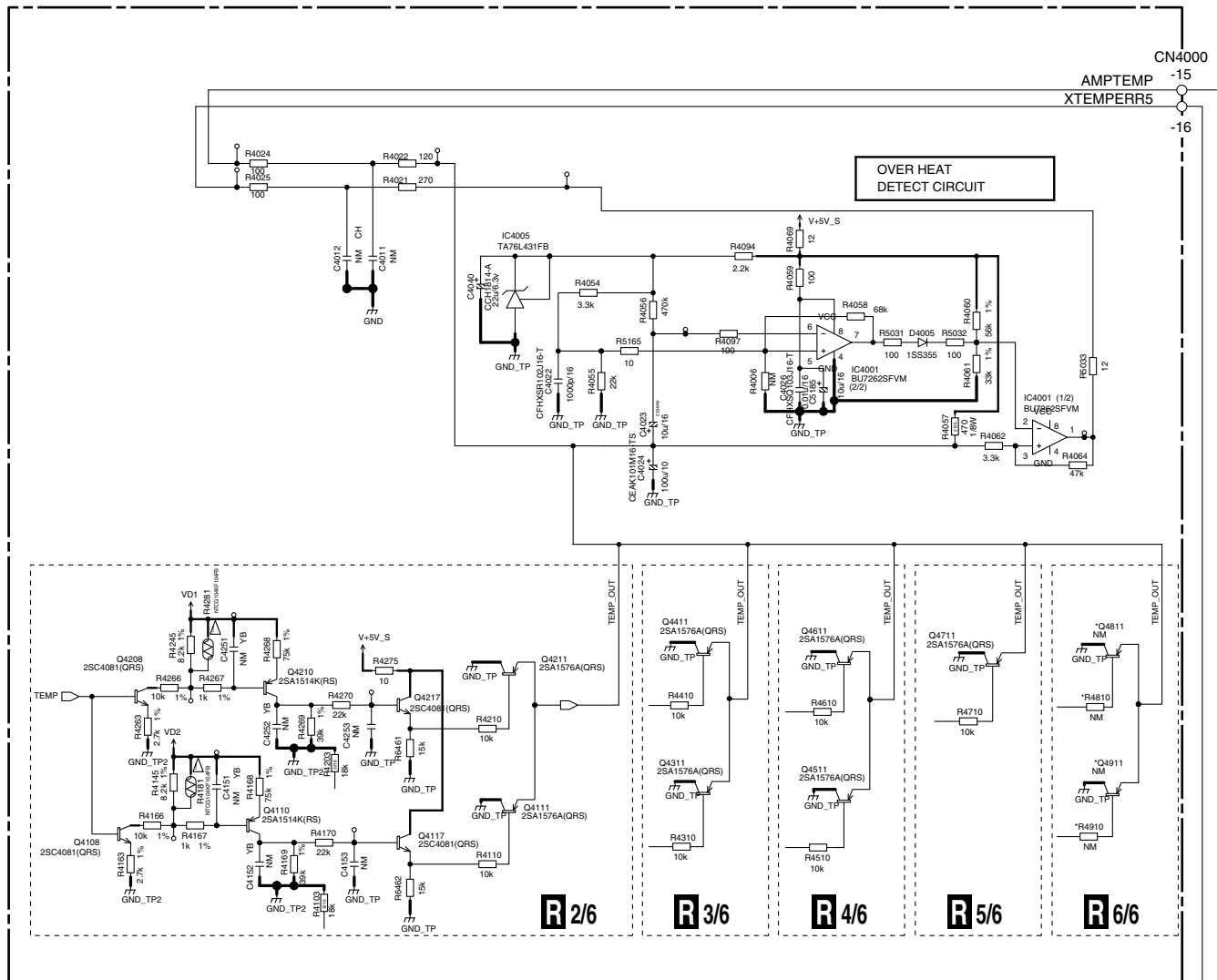
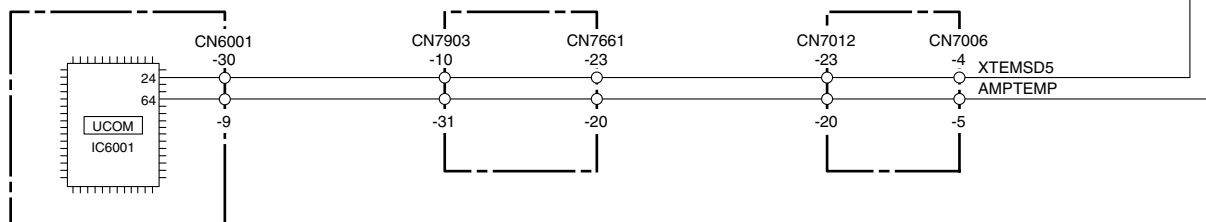
Amplifier Circuit

Item	Purpose	Detection Method	Status of Equipment	Warning Indication	Remarks
Overheat detection	Detects MOS FET temperature of amplifier output stage	Detects when TEMPERR5 port becomes "L" in case of the detecting temperature exceeds 120°C or rapid change by short cuicuit of speaker terminals. (IC6001 24pin)	Flashes "OVERHEAT" Shuts down when abnormality continues for more than 3 seconds.	Blinks FL OFF LED indicator.	Recoverable by power-on after shutdown in 1 minute.
		Detects when AMPTEMP port becomes below 1.6V at NTC Thermistor detect circuit. (IC6001 64pin)	Fan rotates by power-on.		AMPTEMP voltage [US Model Only] 5V-2.9V : FANLOW 2.9V or less : FANHIGH [Except US Model] 5V-3.8V : FANSTOP 3.8V-2.9V : FANLOW 2.9V or less : FANHIGH
DC detection	Detects DC of amplifier output (After LPF)	Detects when SP output exceeds DC $\pm$ 7V and XDCERR port becomes "L". (IC6001 21pin)	MUTE on and Speaker Relay off. Flashes "AMP ERR". Shuts down when abnormality continues for more than 3 seconds.	Blinks MCACC PRO 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" .
			MUTE on and Speaker Relay off. Flashes "AMP ERR". Shuts down when abnormality continues for more than 3 seconds.	Blinks FL OFF LED indicator.	In case of detecting DC abnormality during normal operation. Recoverable by power-on after 1 minute.
Zobel detection	Protects overcurrent by Zobel Resistance when high power output of higher frequency continued	Detects XOLERR port becomes "L". (IC6001 13pin)	Shuts down	Blinks Wireless LED	Recoverable by power-on
Overcurrent detection	Protects overcurrent of MOS FET in output stage when overcurrent flows at the output stage	Detects XOLERR port becomes "L". (IC6001 13pin)	Shuts down	Blinks Wireless LED	Recoverable by power-on
Amplifier Power Supply failure detection	Detects abnormal in the Amplifier Power Supply	Detects B-Power Supply Voltage exceeds $\pm$ 75V and XOLERR port becomes "L". (IC6001 13pin)	Shuts down	Blinks Wireless LED	Recoverable by power-on.
		Detects B-Power Supply Voltage falls below $\pm$ 20V and XBERR port becomes "L". (IC6001 75pin)		Blinks MCACC PRO LED	Recoverable by only DC DETECT cancel. Refer to "How to Enter Release Mode" .
BERR conductivity failure detection	Detects XBERR line conductivity failure	Detects when XBERR port becomes "M". (approx. 2.5V) (IC6001 75pin)	Shuts down	Blinks Wireless LED	Recoverable by power-on.
Fan abnormality detection	Detects a Fan not rotating by loose connector or Fan lock when controlling the Fan rotation	Detects when XFANERR port becomes "L". (IC6001 28pin)	Flashes "FAN STOP" Shuts down when abnormality continues for more than 3 seconds.	Blinks Wireless LED	Recoverable by power-on

[How to Enter Release Mode]

During Standby mode, simultaneously press and hold the "TUNE [↓]" and "ZONE2 ON/OFF" keys for 5 seconds.

Overheat Detection

R D AMP_SS ASSY**K** DISPLAY ASSY**V** V-REG_S ASSY**G** INTERFACE_S ASSY

A



F



^A **R** D AMP_SS ASSY



G INTERFACE_S ASSY



A **U** IR REG_S ASSY

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

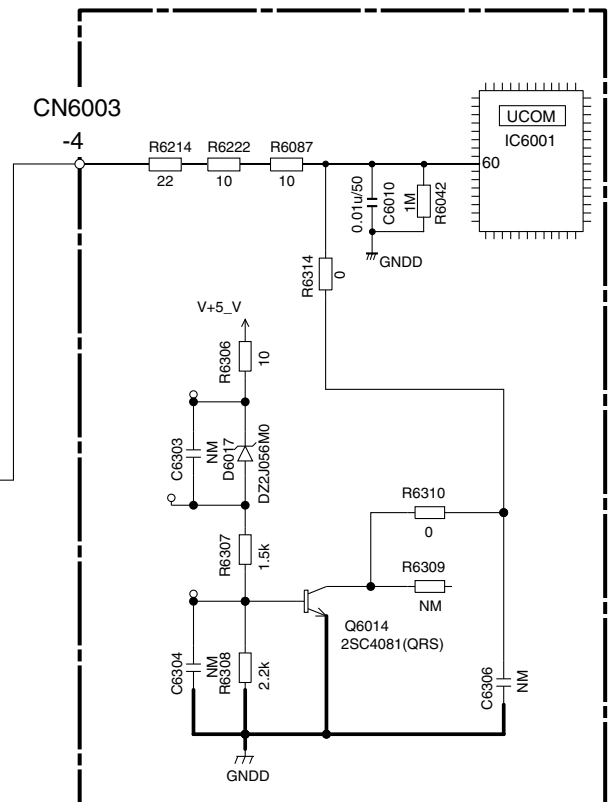
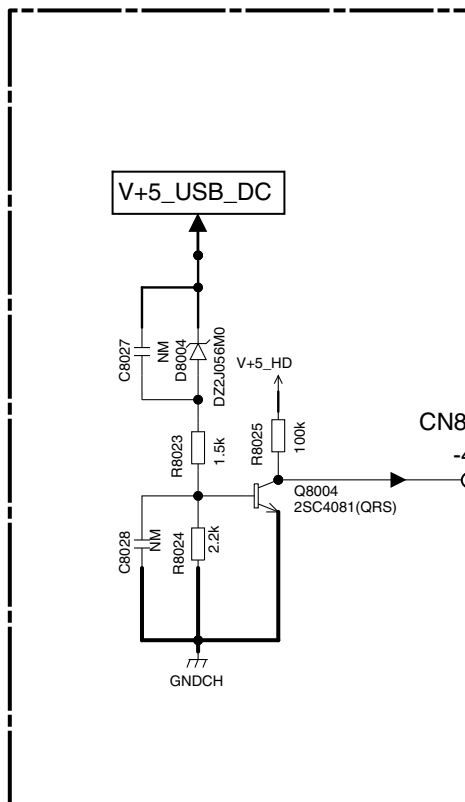
G INTERFACE_S ASSY



[2] Protection Circuit Process List (XVDDERR)

Item	Purpose	Detection Method	Status of Equipment	Warning Indication	Remarks
USB power failure detection	Detection of failure in regulator circuit for external supply	- Detected when USB voltage reaches 7V or higher. - Detected when VIDEO-IC 5V power supply failure. XVDDERR port is set to "L". (IC6001 60pin)	Shuts down	Blinks Wireless LED	Restoration possible with Power ON

■ XVDDERR Circuit



[4] 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)	UE11	NA	Update error of software for Event Ucom.	Flashing	Updating of Event Ucom was failed due to some reason such as AC OFF during updating. (The unit was starting up with old version)	Update Event Ucom again.
(5)	UE22	NA	Read error of DSP firmware.	Flashing	Updating of DSP firmware was failed due to some reason such as AC OFF during the updating. Or there's a possibility of communication error between DSP IC and flash ROM IC for DSP.	Update DSP firmware again. If the error still remains after updating, replace DIGITAL MAIN_L ASSY.
(6)	UE33	NA	Read error of Network Module firmware.	Flashing	Updating of Network Module firmware was failed due to some reason such as AC OFF during the updating. Or there's a possibility of communication error between Network Module and flash ROM IC for Network Module.	Update Network Module firmware again. If the error still remains after updating, replace Network Module (AXX7293).

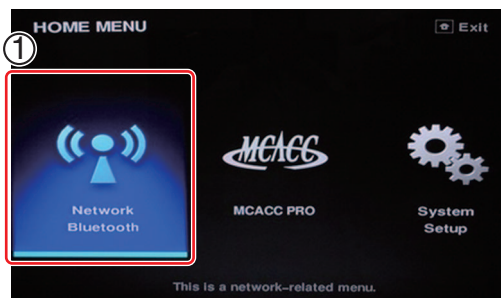
5.3 CONFIRMATION OF THE NETWORK MODULE

Check if the set SSID of this unit is displayed on a device such as a PC or a smart phone, following the procedures shown below. If the SSID is displayed on the device, the antenna connections of the Network Module are normal.

A If the SSID is not displayed, check the antenna cable connections on the Network Module.

Procedures:

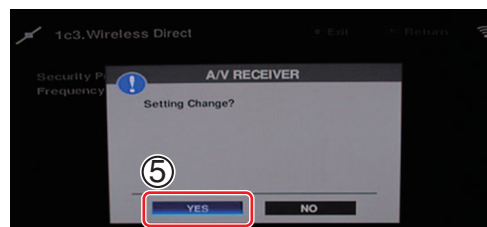
① Press "Home Menu" button on a remote control and select "Network Connection" from the Network, Bluetooth menu on screen.



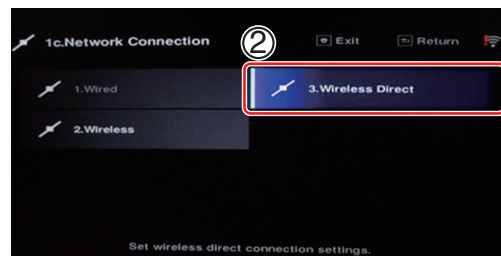
③ Select the encryption method to "None" with ← / → from Security Protocol.

④ Select "Frequency Band" at ↓ and select the frequency to "2.4GHz".

⑤ Select "OK" then press ENTER. "Setting change?" window is displayed, then select "YES" and press ENTER.



② Select "Wireless Direct" from the Network Connection menu.



⑥ Select the SSID shown on the screen of this unit. (e.g. WirelessDirectX: XXXXXX)



How to Check on a PC Equipped with a Wireless LAN Device

[Windows 7]

- ① Left-click on the wireless network icon on the system tray.
- ② Check that the above-mentioned SSID (WirelessDirectX:XXXXXX) is displayed on the list that appears.



How to Check on a Smartphone (Example: iPod Touch)

- ① At the top screen of an iPod Touch, select Settings.



- ② Select Wi-Fi.



- ③ Check that the above-mentioned SSID (WirelessDirectX:XXXXXX) is displayed in the "Choose a Network" box.

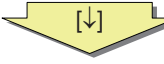
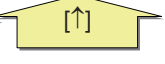
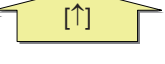
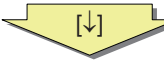
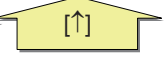
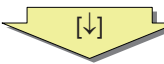
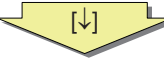


[1] Detected protection history

[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 “ZONE2 ON/OFF” and “ENTER” keys for 5 seconds to enter this mode.

[Basic operations]

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

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

Key operation	FL display
Resetting the number of times error is detected.	RESET ◀HOLD▶
↓	
↑	
Display accumulated time & RESET.	1 2 3 4 5 h 2 0 m ◀HLD▶
↓	
↑	
Display CEC(TEST) state.	CEC ◀OFF▶
↓	
↑	
Display FAN(TEST) state.	FAN ◀OFF▶
↓	
↑	
USB Backup state	USB BAK ◀HOLD▶
↓	
↑	

Resetting the number of times error is detected

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

A

Resetting the accumulated time

Key operation	FL display
◀[←][→]▶	1 2 3 4 5 h 2 0 m ◀CL?▶
[ENTER]	0 h 0 m ◀RST▶
Continued	

B

Display CEC(TEST) state.

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

C

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

Saving and Loading of USB backup state.

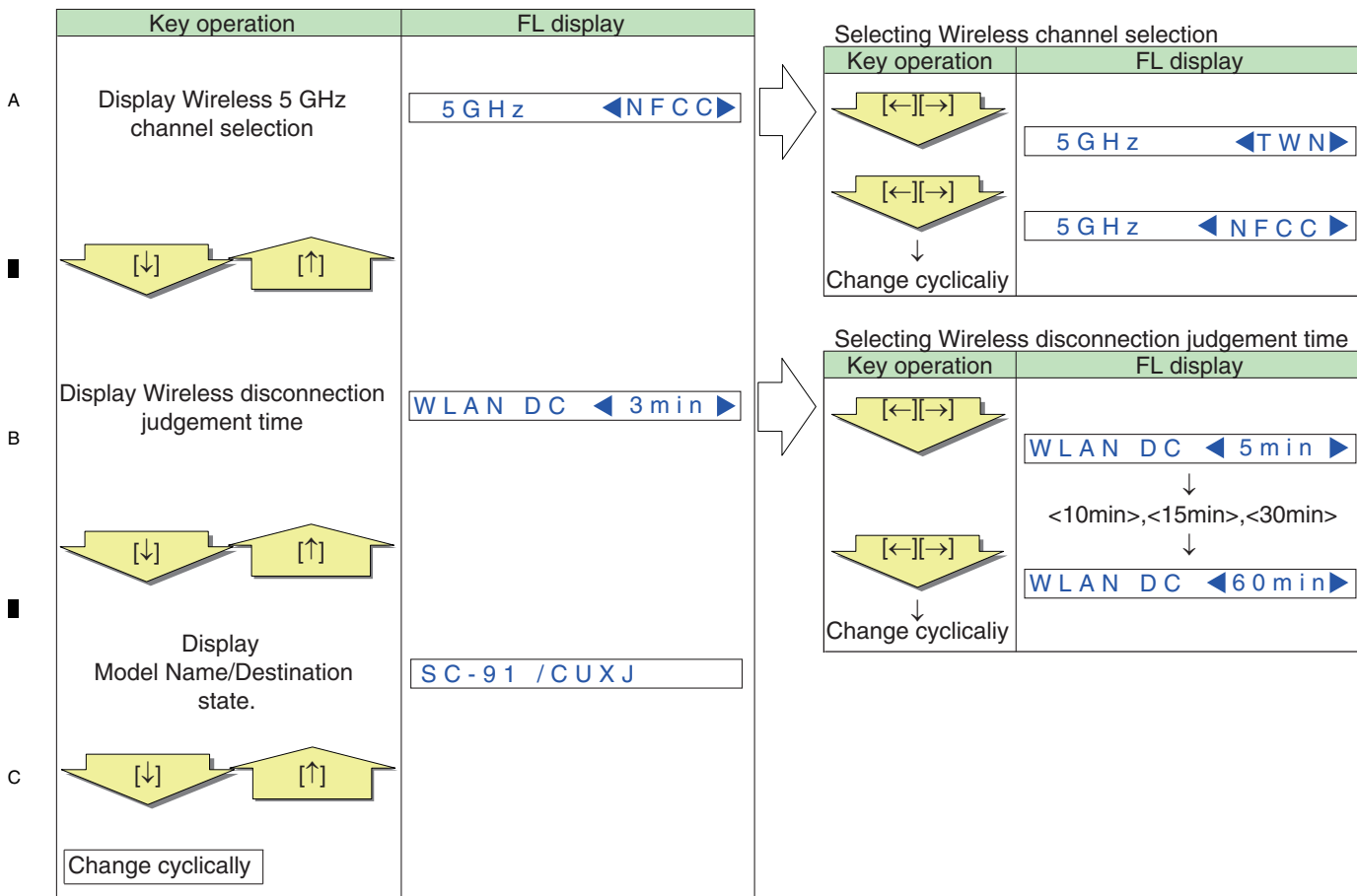
Key operation	FL display
◀[←][→]▶	(A/V Receiver → USB) USB BAK ◀SAVE?▶
◀[←][→]▶	(USB → A/V Receiver) USB BAK ◀LOAD?▶
Change cyclically	

D

Key operation	FL display
[ENTER]	PLEASE WAIT
SAVE or LOAD is completed.	COMPLETE
↓ 5-15 sec Power OFF (All zone OFF)	

E

F



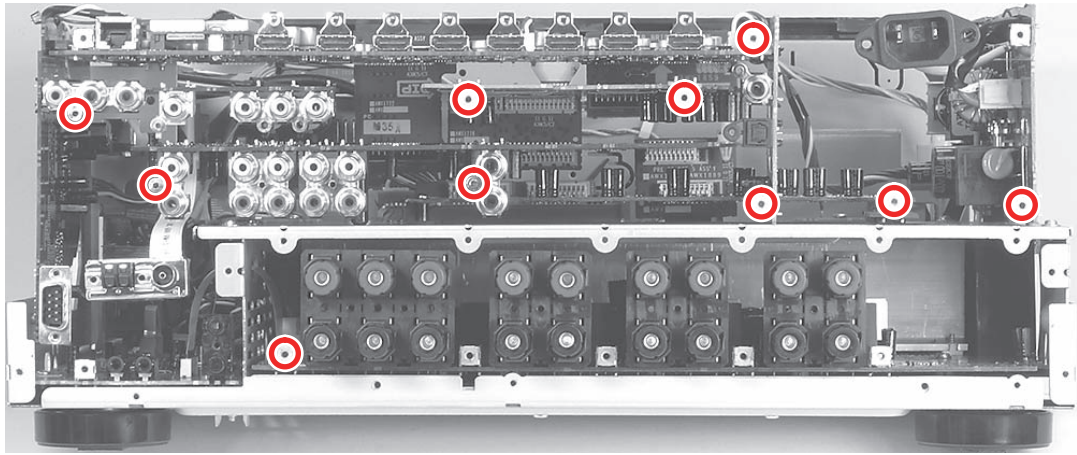
[Description]

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.

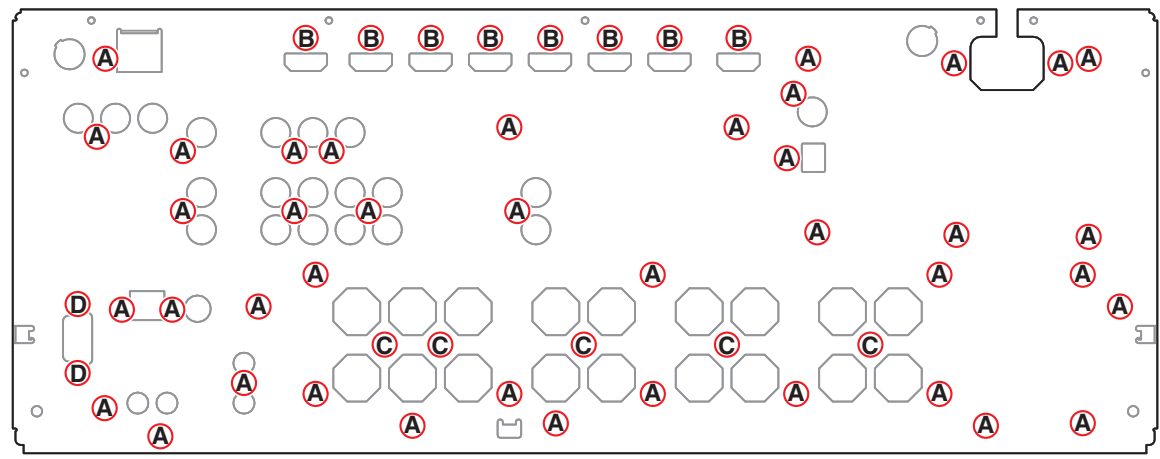
FAN TEST : The function for making the FAN to be forced to rotate.

Ground Points

Note:
The points marked below must be grounded when the Rear Panel/91U is removed.
Before turning the unit ON, be sure to ground the marked points with the Chassis ASSY/65. Or, you may short-circuit the ground points on the solder surface, using pieces of wire.



Screws for Rear Panel/91U



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.
- 15P FFC extension jig cable (GGD1680)
 - 5P PH Housing ASSY extension jig cable (GGD1594)
 - 4P PH Housing ASSY extension jig cable (GGD1809)
 - 23P board to board extension jig cable (GGD1805)
 - 29P board to board extension jig cable (GGD1856)
 - 28P board to board extension jig cable (GGD1867)
 - 20P board to board extension jig cable (GGD1868)
 - 24P board to board extension jig cable (GGD1871) x 2
 - 27P board to board extension jig cable (GGD1873)
 - 23P board to board extension jig cable (GGD1875)
 - 15P board to board extension jig cable (GGD1876)
- (3) **Before starting the diagnosis, wait for three minutes until the electricity of the unit is discharged.**

Disassembly**[1] Front Section**

Remove the Bonnet 65 by removing the 18 screws.

Note on assembling as to the Bonnet 65

Tighten screw from the location *1 on the photo.

[1-1] Front Section

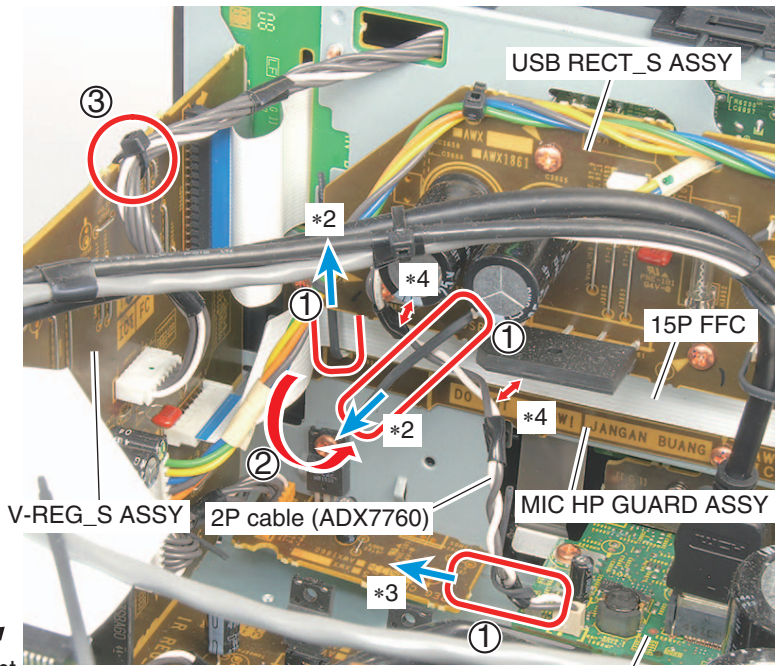
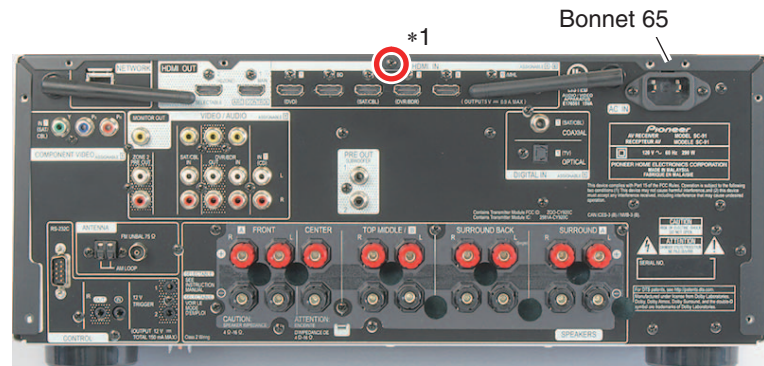
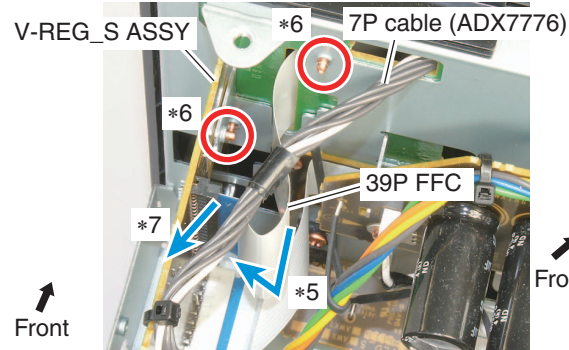
- (1) Release the cables from the three PCB binders.
- (2) Remove the 15P FFC (ADD7792) from the MIC HP GUARD ASSY and then move under the PCB binder.

Note: 15P FFC (ADD7792) is affixed with the Double Side Tape (10 x 110mm).

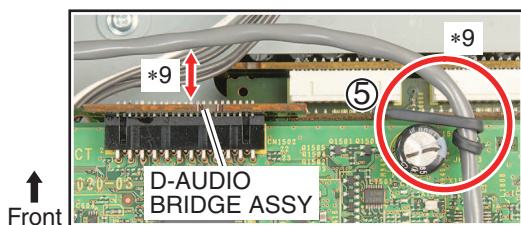
- (3) Cut the Binder.

Notes on assembling

- *2: PCB binders tilt in the direction of the blue arrow.
- *3: Twist the PCB binder around the 2P cable (ADX7760) and tilt in the direction of the blue arrow.
- *4: Doesn't touch the 2P cable (ADX7760) to the diode and capacitor.
- *5: Bend the 39P FFC (ADD7796).
- *6: Doesn't touch the cables to a top of screws.
- *7: Pull the 7P cable (ADX7776) to the direction of the blue arrow and then fix the Binder.

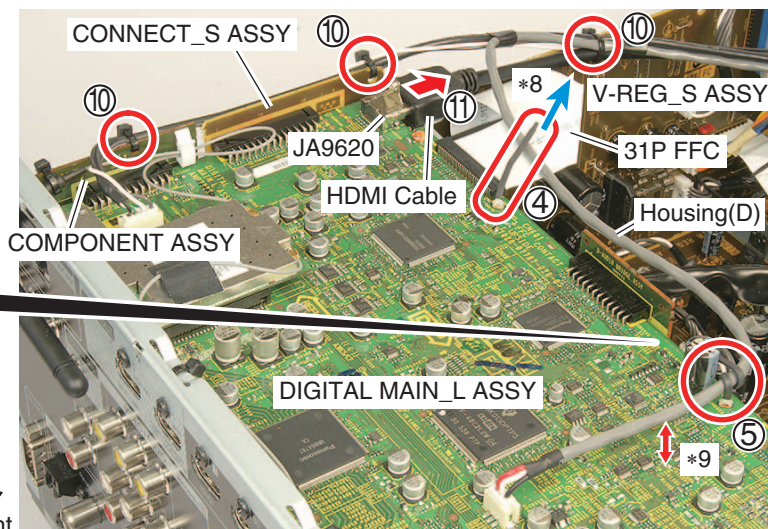
**FRONT HDMI USB ASSY**

- (4) Release the cables from the PCB binder.
- (5) Release the Housing(D) (ADX7821) from the PCB binder.



Notes on assembling

- *8: PCB binder tilt in the direction of the blue arrow.
- *9: Twist the PCB binder around the Housing(D) (ADX7821), so that it doesn't touch to the DIGITAL MAIN_L ASSY, D-AUDIO BRIDGE ASSY and the Bonnet 65.



- (6) Release the cables from the three PCB binders.

Notes on assembling

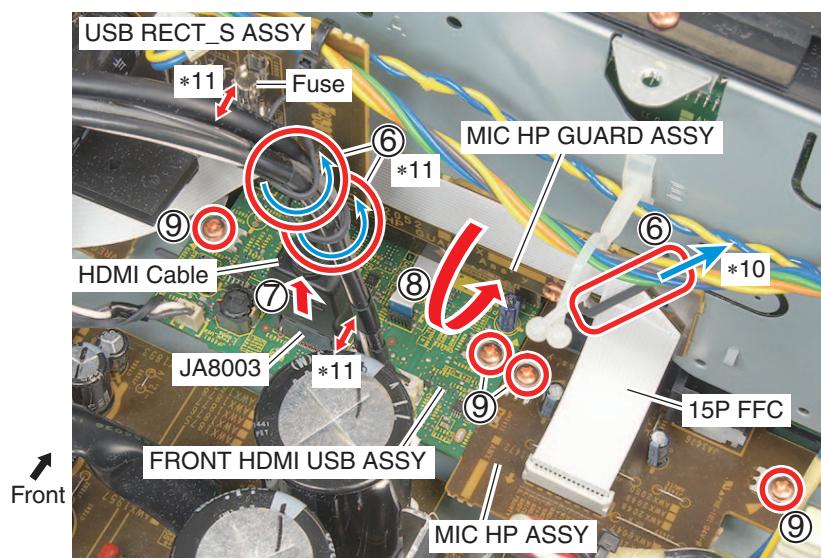
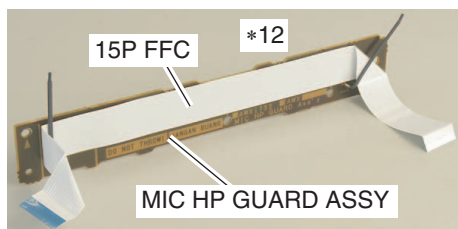
- *10: PCB binder tilt in the direction of the blue arrow.
- *11: Twist the PCB binders around the cables (direction of the blue arrow), so that they don't touch to the Fuse and the capacitor.

- (7) Disconnect the connector.
- (8) Remove the 15P FFC (ADD7792) from the MIC HP GUARD ASSY and then move under the PCB binder.

Note: 15P FFC (ADD7792) is affixed with the Double Side Tape (10 x 110mm).

Note on assembling

- *12: How to bend the 15P FFC (ADD7792).

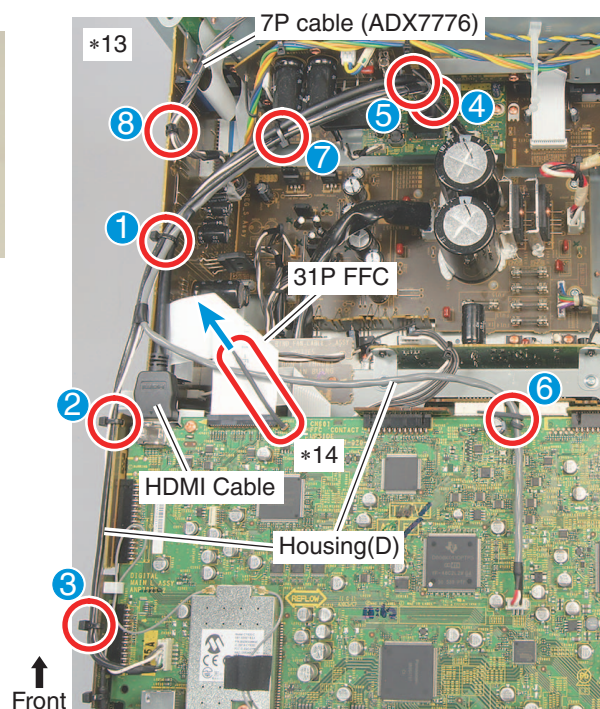


- (9) Remove the four screws. (BBZ30P080FCC)

- (10) Cut the three Binders.
- (11) Disconnect the connector.

Notes on assembling

- *13: Bind the HDMI Cable (ADX7777), Housing(D) (ADX7821) and the 7P cable (ADX7776) as numerical order of blue numbers.
- *14: PCB binder tilt in the direction of the blue arrow.



(12) Remove the four screws. (BBZ30P080FTB)

(13) Remove the three screws. (BBZ30P080FCC)

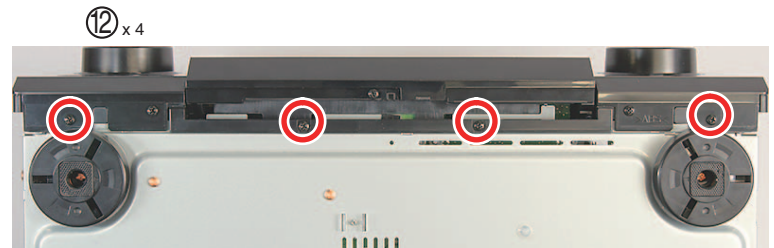
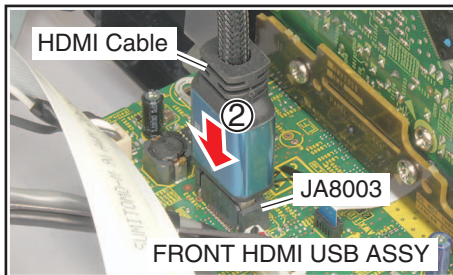
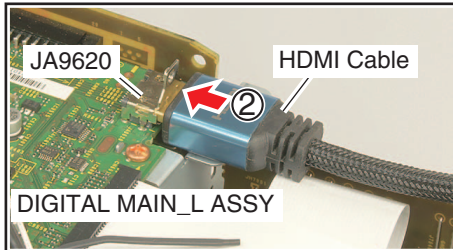
(14) Unhook the two hooks.

(15) Remove the Front Section.

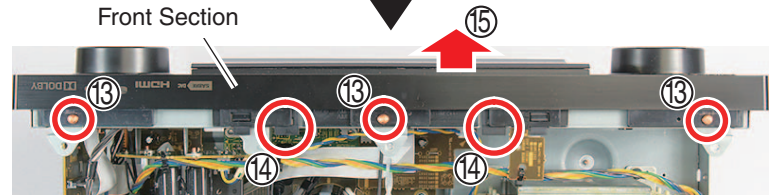
[1-2] Diagnosis

(1) Arrange the unit as shown in the photo.

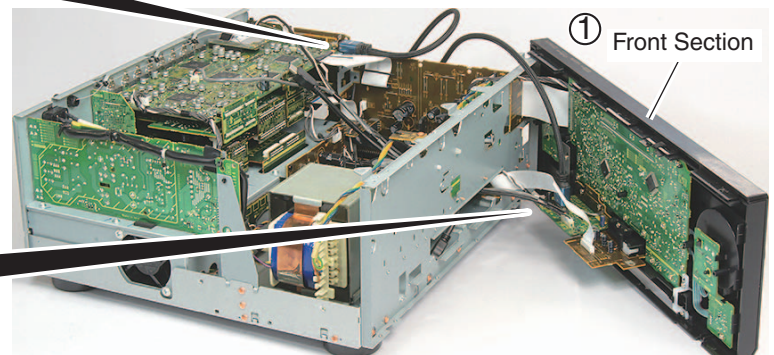
(2) Connect the another normal HDMI Cable to the DIGITAL MAIN_L ASSY and the FRONT HDMI USB ASSY.



• Bottom View



• Top View



Note: Always connect the HDMI Cable because the Wireless LED blinks, which causes a shutdown, if the power is turned on without the cable connected.

[2] Rear Section

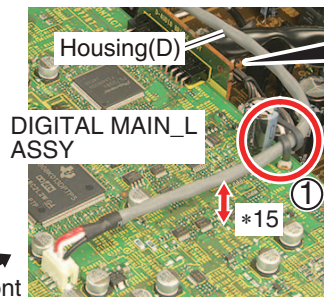
Remove the Bonnet 65 by removing the 18 screws.

[2-1] Rear Section

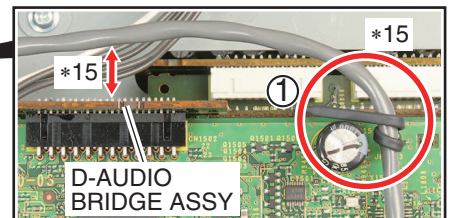
(1) Release the Housing(D) (ADX7821) from the PCB binder.

Note on assembling

*15: Twist the PCB binder around the Housing(D) (ADX7821), so that it doesn't touch to the DIGITAL MAIN_L ASSY, D-AUDIO BRIDGE ASSY and the Bonnet 65.



Front



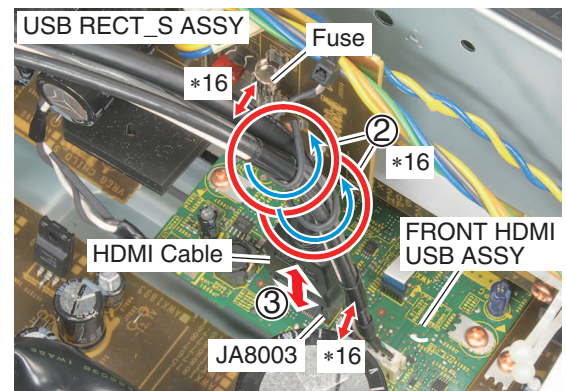
(2) Release the cables from the two PCB binders.

Note on assembling

*16: Twist the PCB binders around the cables (direction of the blue arrow), so that they don't touch to the Fuse and the capacitor.

(3) Remove the HDMI Cable (ADX7777) by disconnect the connector, and then connect the another normal HDMI Cable.

Note: Don't connect the HDMI Cable (ADX7777) provided with the product to prevent damage to the HDMI connector for the DIGITAL MAIN_L ASSY. Instead, use the another normal HDMI Cable to prevent a load from being applied to the HDMI connector. Always connect the HDMI Cable because the Wireless LED blinks, which causes a shutdown, if the power is turned on without the cable connected.



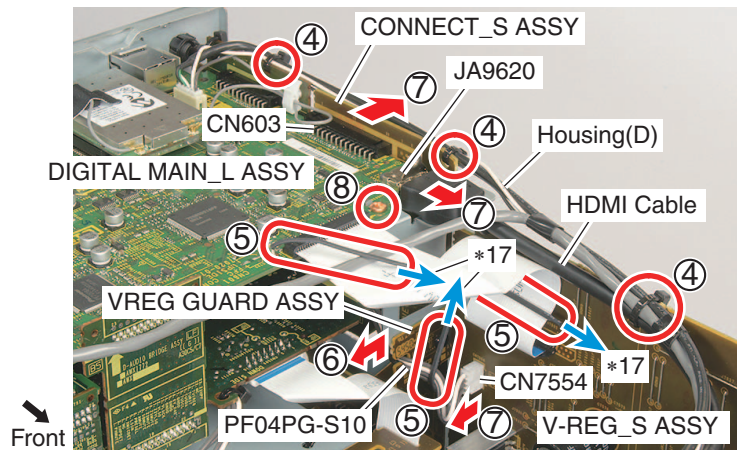
Front

- (4) Cut the three Binders.
- (5) Release the cables from the three PCB binders.

Note on assembling

*17: PCB binders tilt in the direction of the blue arrow.

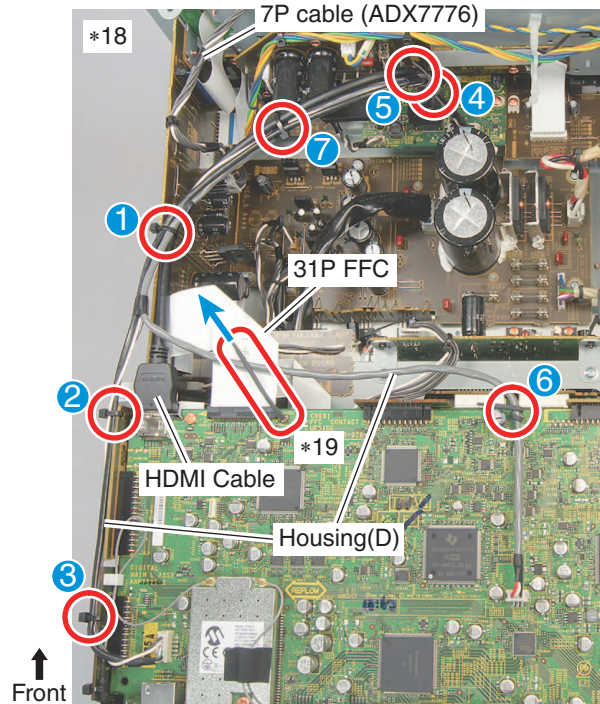
- (6) Release the cable (PF04PG-S10) from hook of the VREG GUARD ASSY.
- (7) Disconnect the three connectors.
- (8) Remove the screw. (BBZ30P060FCC)



Notes on assembling

*18: Bind the HDMI Cable (ADX7777) and the Housing(D) (ADX7821) as numerical order of blue numbers.

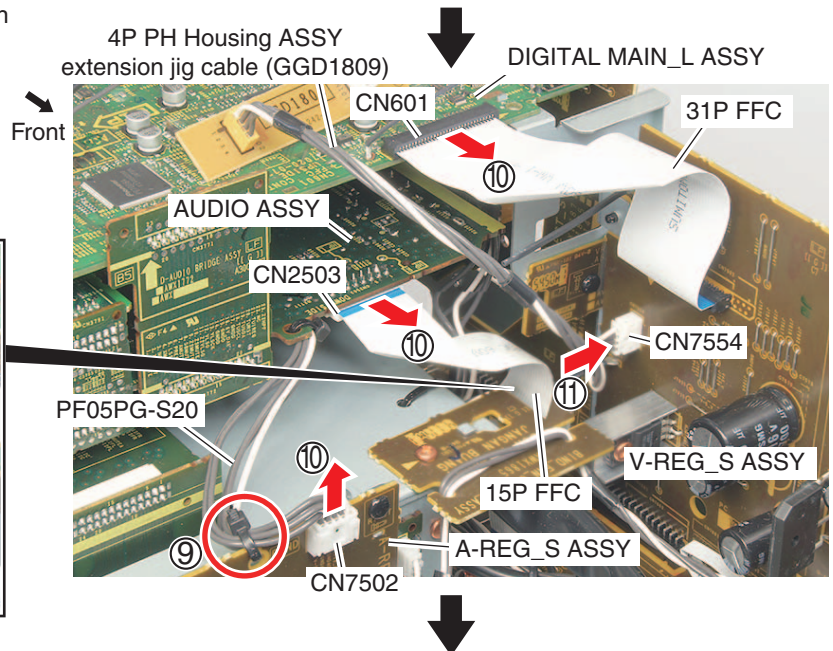
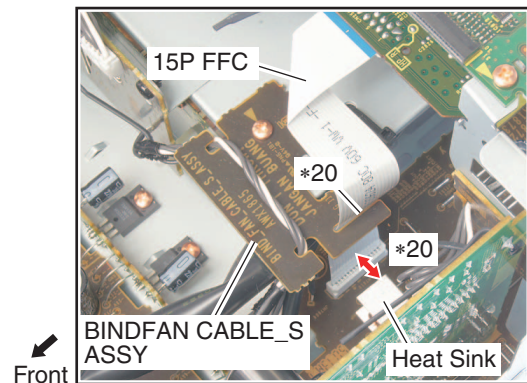
*19: PCB binder tilt in the direction of the blue arrow.



- (9) Cut the Binder.
- (10) Disconnect the three connectors.
- (11) Connect the 4P PH Housing ASSY extension jig cable. (GGD1809)

Note on assembling

*20: 15P FFC (ADD7790) pass to the slit of the BINDFAN CABLE_S ASSY, so that it doesn't touch to the other cables and the Heat Sink.



(12) Release the 7P cable (ADX7792) from the PCB binder.

(13) Remove the PRE BRIDGE_S ASSY.

Note on assembling

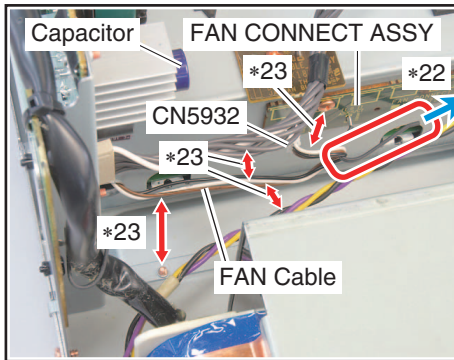
*21: Twist the PCB binder around the 7P cable (ADX7792), so that it doesn't touch to the Heat Sink, capacitor and the Cover/IR.

Note: When diagnosing, it is not necessary to connect FAN Cable (FAN CONNECT ASSY: CN5932).

Notes on assembling

*22: PCB binder tilt in the direction of the blue arrow.

*23: Doesn't touch the FAN Cable to the other cables and the screws.



(14) Remove the Cushion Circle 14B.

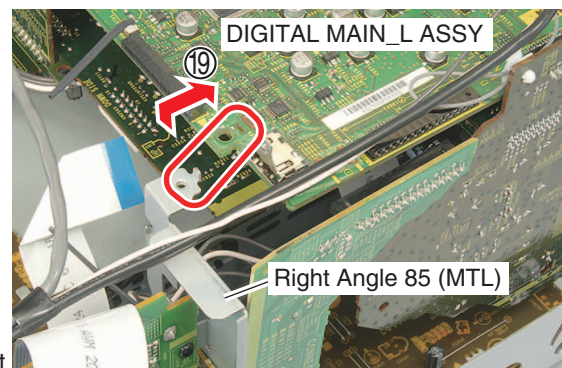
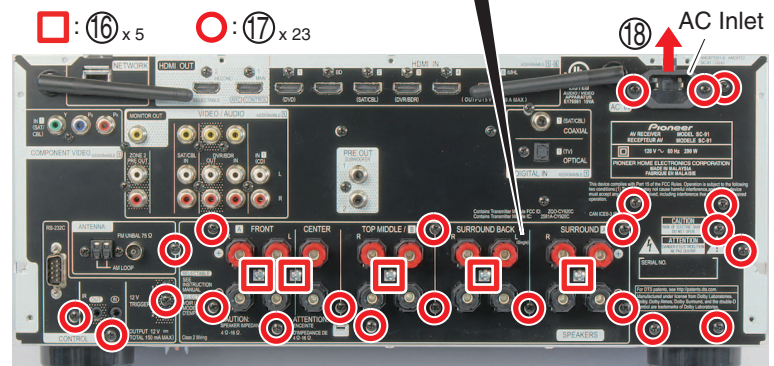
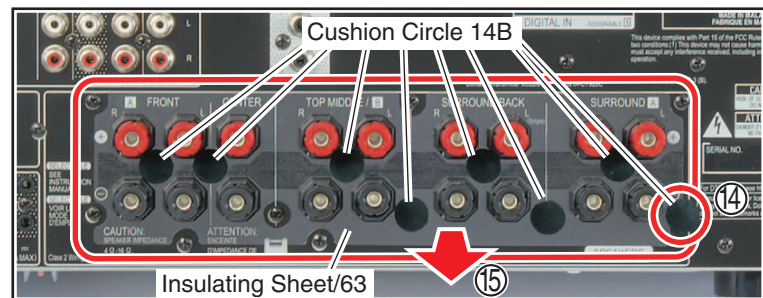
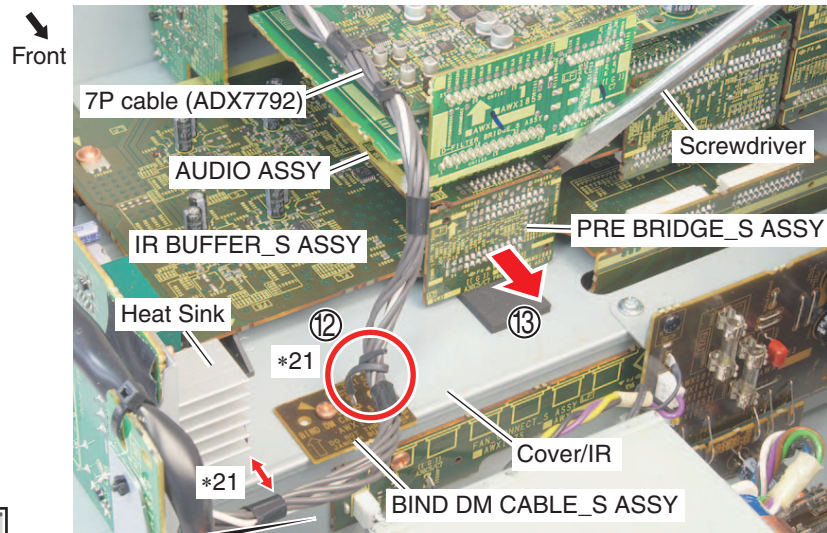
(15) Remove the Insulating Sheet/63 (with the seven Cushion Circle 14Bs).

(16) Remove the five screws. (BPZ30P100FTC)

(17) Remove the 23 screws. (BBZ30P080FTB)

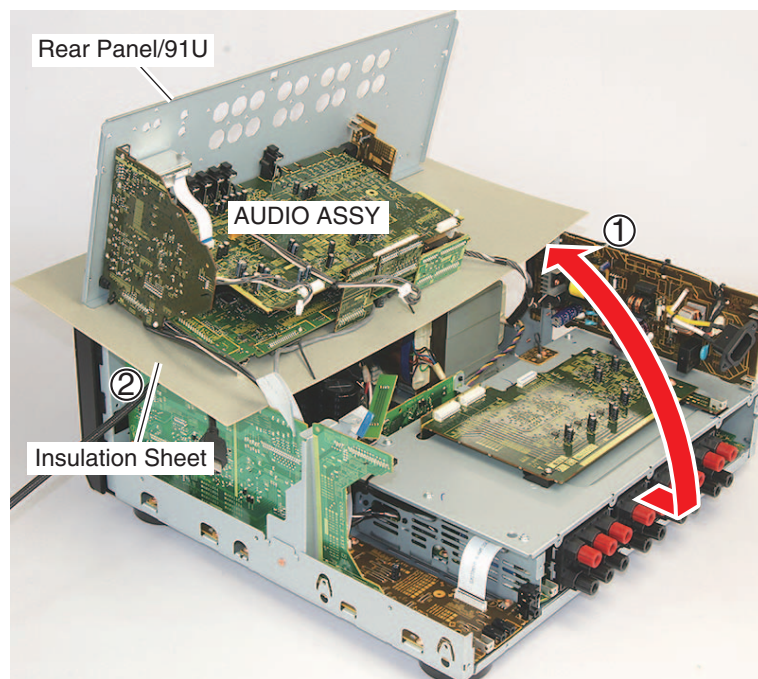
(18) Remove the AC Inlet.

(19) Unhook the hook.



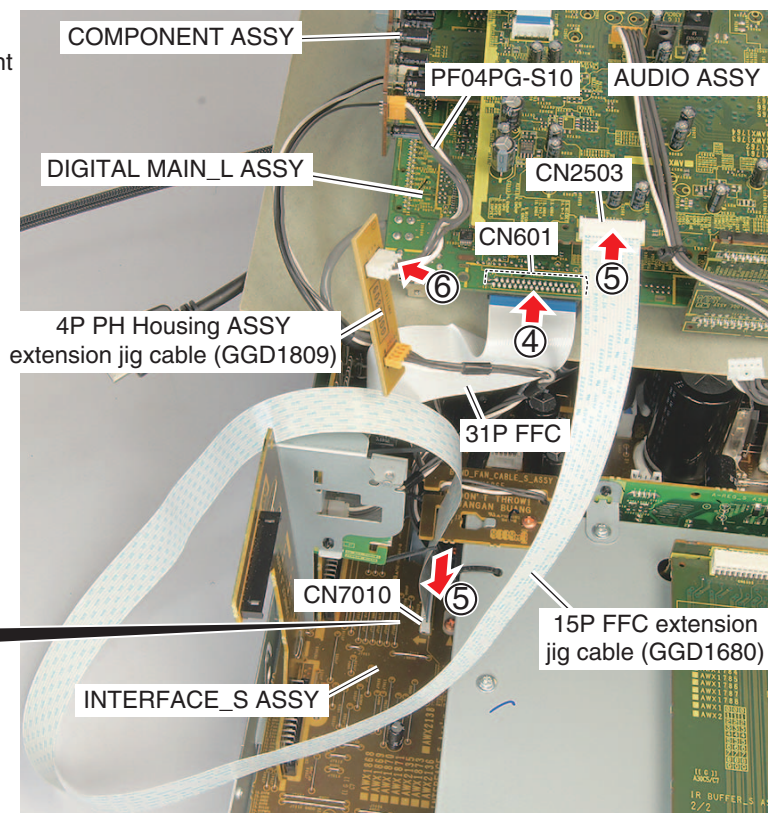
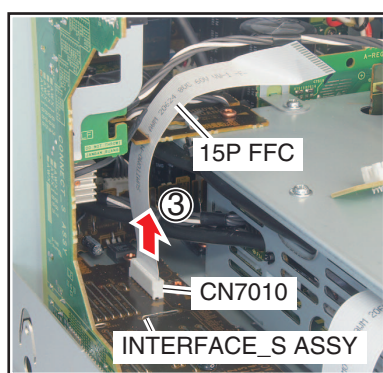
[2-2] Diagnosis

- (1) Arrange the unit as shown in the photo.
- (2) Insert the Insulation Sheet.



- (3) Remove the 15P FFC (ADD7790) by disconnect the connector.
- (4) Connect the connector.
- (5) Connect the 15P FFC extension jig cable. (GGD1680) (INTERFACE_S CN7010 <-> AUDIO CN2503)
- (6) Connect the 4P PH Housing ASSY extension jig cable. (GGD1809) (V-REG_S CN7554 <-> COMPONENT PF04PG-S10)

Front ↑

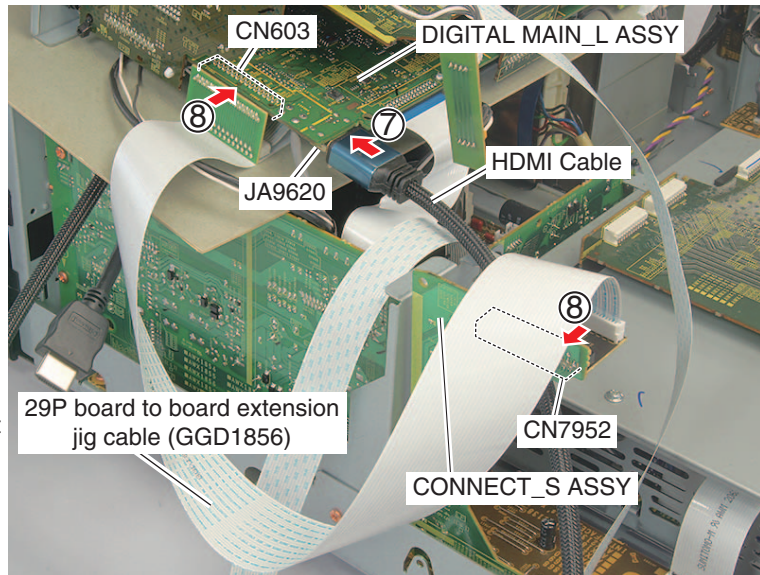


- (7) Connect the another normal HDMI Cable from the FRONT HDMI USB ASSY.

Note: Don't connect the HDMI Cable (ADX7777) provided with the product to prevent damage to the HDMI connector. Instead, use the another normal HDMI Cable to prevent a load from being applied to the HDMI connector.
Always connect the HDMI Cable because the Wireless LED blinks, which causes a shutdown, if the power is turned on without the cable connected.

- (8) Connect the 29P board to board extension jig cable. (GGD1856)
(DIGITAL MAIN_L CN603 <-> CONNECT_S CN7952)

Front

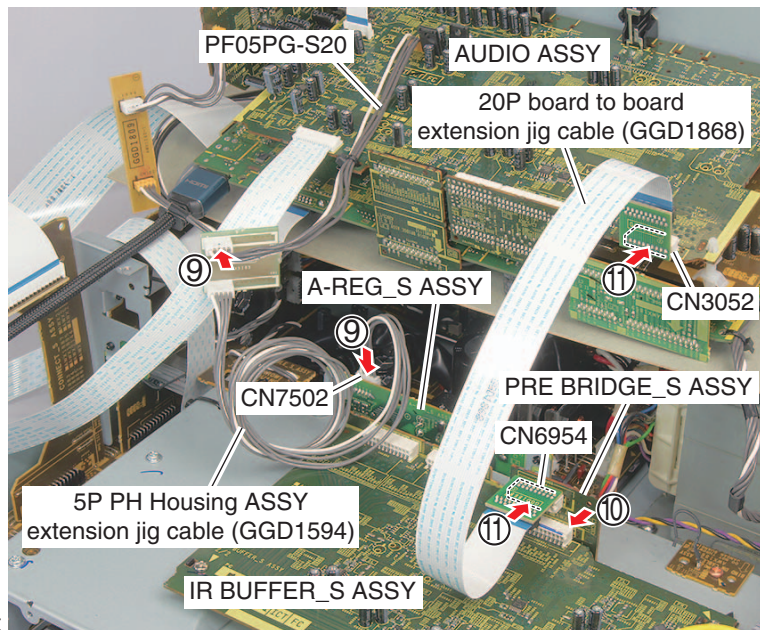


- (9) Connect the 5P PH Housing ASSY extension jig cable. (GGD1594)
(A-REG_S CN7502 <-> AUDIO PF05PG-S20)
(10) Attach the PRE BRIDGE_S ASSY.
(11) Connect the 20P board to board extension jig cable. (GGD1868)
(PRE BRIDGE_S CN6954 <-> AUDIO CN3052)

- (10) Attach the PRE BRIDGE_S ASSY.

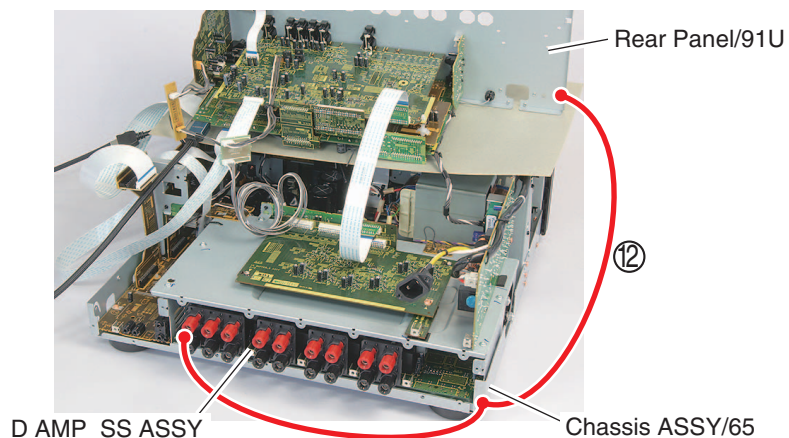
- (11) Connect the 20P board to board extension jig cable. (GGD1868)
(PRE BRIDGE_S CN6954 <-> AUDIO CN3052)

Front



- (12) Connect the Rear Panel/91U to the Chassis ASSY/65 Ground and GND point of the D AMP_SS ASSY.
(Refer to the "Ground Points" for the GND point of the D AMP_SS ASSY.)

- (Refer to the "Ground Points" for the GND point of the D AMP_SS ASSY.)



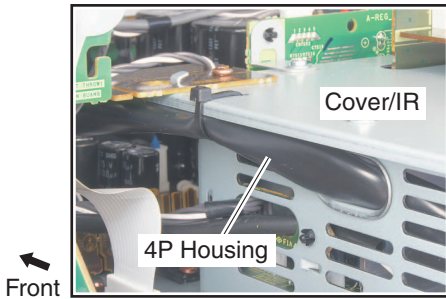
[3] D AMP_SS ASSY

Remove the Rear Section.

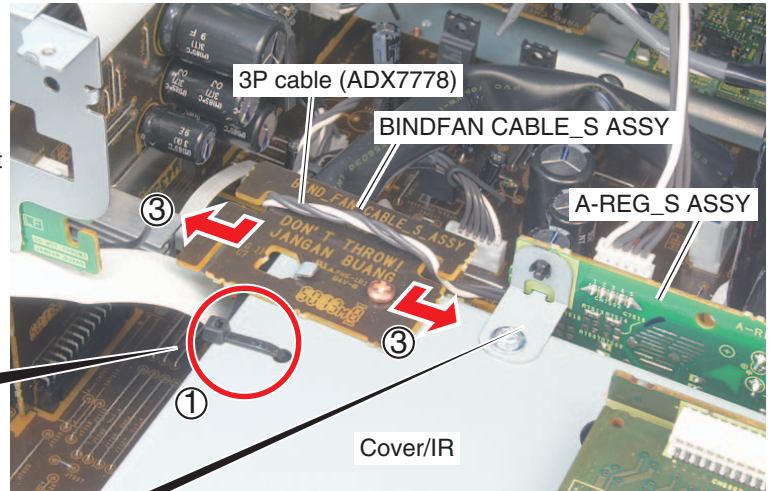
(Refer to the “[2-1] Rear Section” and the step (1) to (9) of “[2-2] Diagnosis”.)

[3-1] Remove the Cover/IR

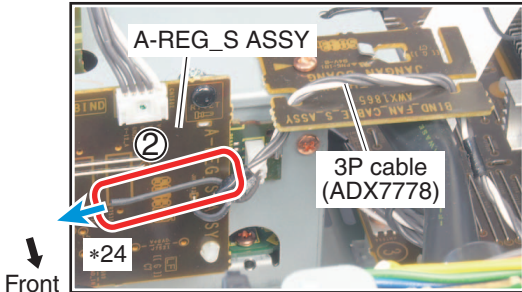
(1) Cut the Binder.



Front



(2) Release the 3P cable (ADX7778) from the PCB binder.



Note on assembling

*24: PCB binder tilt in the direction of the blue arrow.

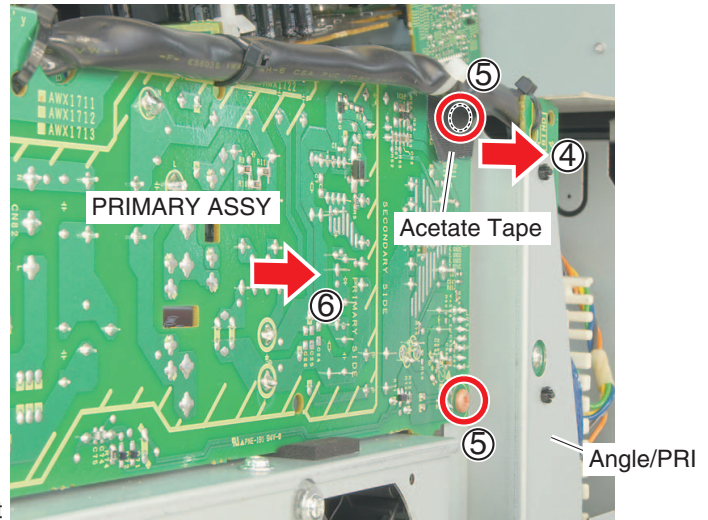
(3) Release the 3P cable (ADX7778) from two hooks of the BINDFAN CABLE_S ASSY.

(4) Remove the Acetate Tape.

(5) Remove the two screws. (BSZ30P060FCC)

(6) Remove the PRIMARY ASSY

Front



(7) Remove the two screws. (BPZ30P080FNI)

(8) Disconnect the two connectors and then remove the IR BUFFER_S ASSY (with the BUFFER GND ASSY).

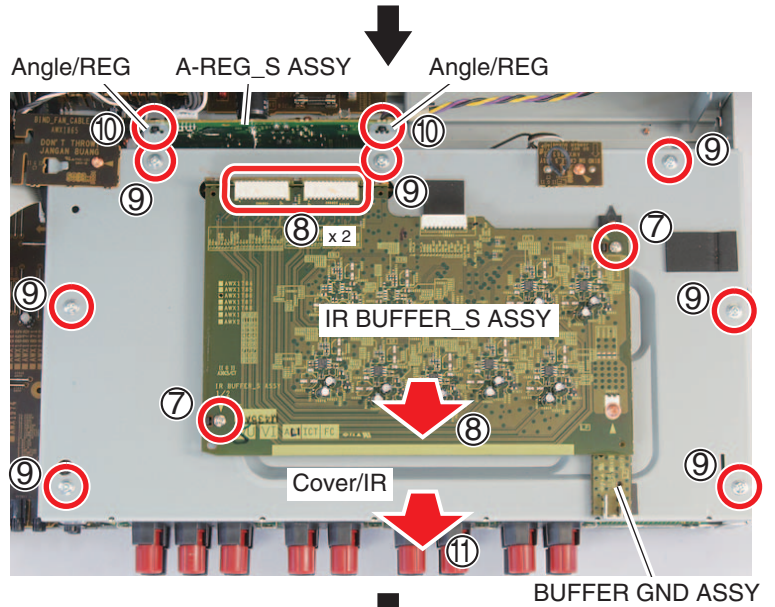
(9) Remove the seven screws. (AMZ30P060FTC)

(10) Remove the two Nylon Rivets (AEC7406) and the two Angle/REGs.

(11) Remove the Cover/IR.

Note on assembling :

To attach the Cover/IR and the IR BUFFER_S ASSY in the correct position, refer to the “[2] Attach the Cover/IR and the IR BUFFER_S ASSY” of “Assembling of Digital Amplifier Block”.



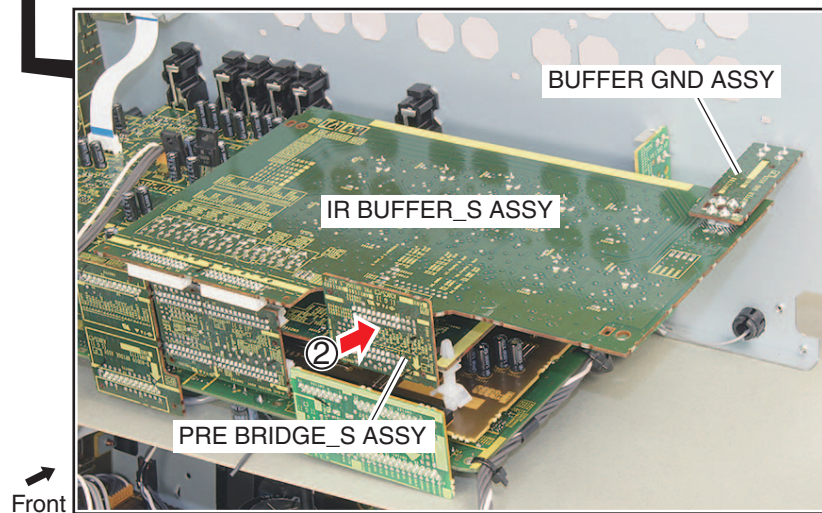
[3-2] Diagnosis

- (1) Temporarily attach the BUFFER GND ASSY (with the IR BUFFER_S ASSY) to the Rear Panel/91U, using the screw. (BBZ30P080FTB)

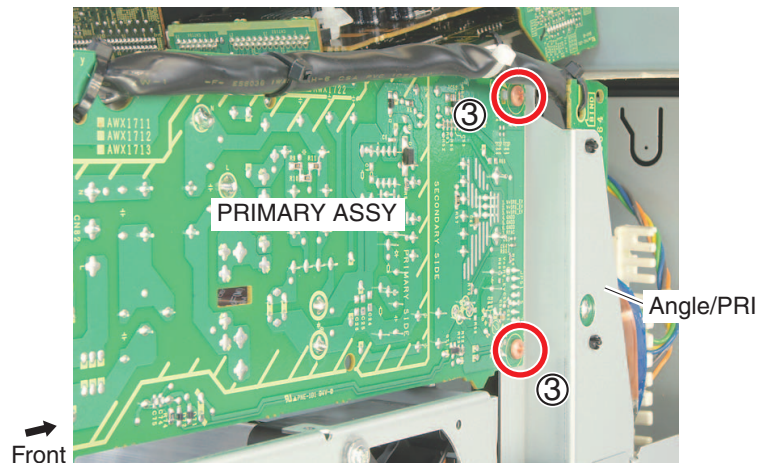
Rear Panel/91U



- (2) Attach the PRE BRIDGE_S ASSY.



- (3) Attach the PRIMARY ASSY, using the two screws. (BSZ30P060FCC)

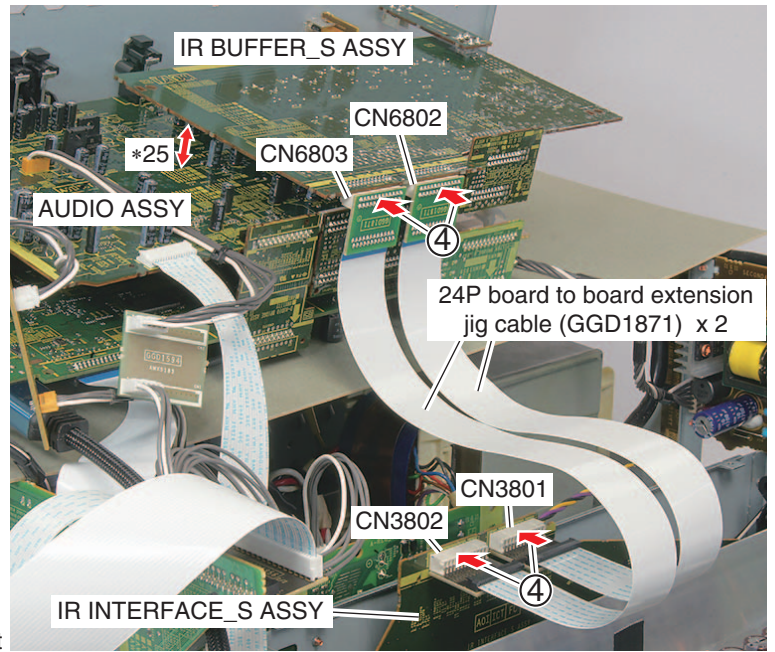


- (4) Connect the two 24P board to board extension jig cables. (GGD1871)
 (IR BUFFER_S CN6802 <-> IR INTERFACE_S CN3801)
 (IR BUFFER_S CN6803 <-> IR INTERFACE_S CN3802)

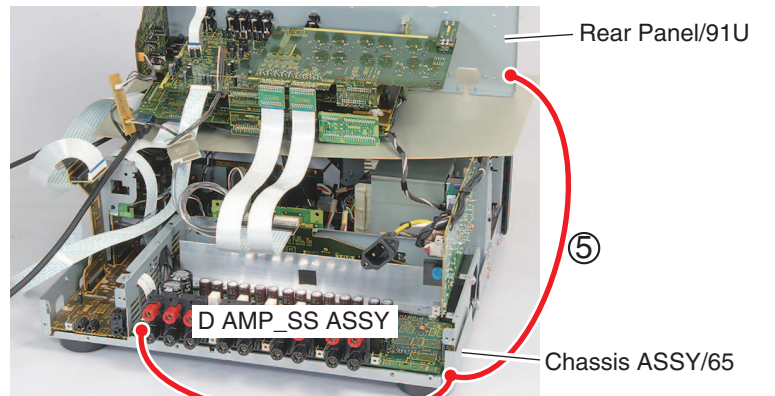
Note:

*25: Doesn't touch the IR BUFFER_S ASSY to the AUDIO ASSY.

Front



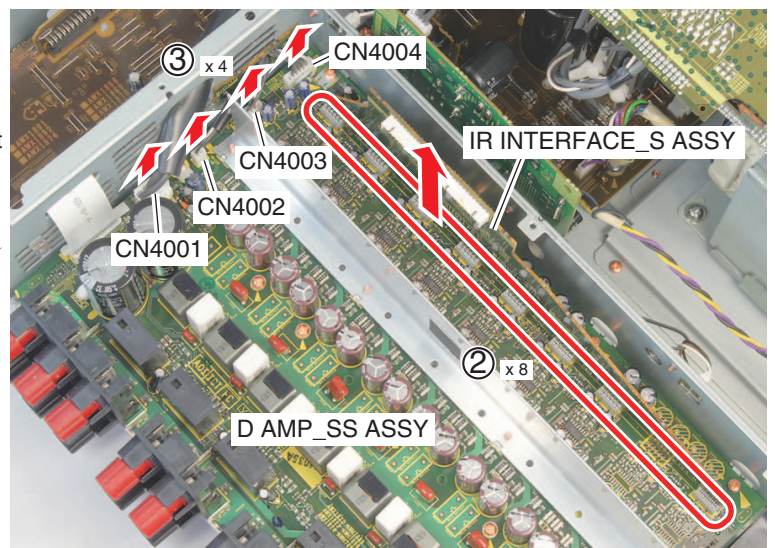
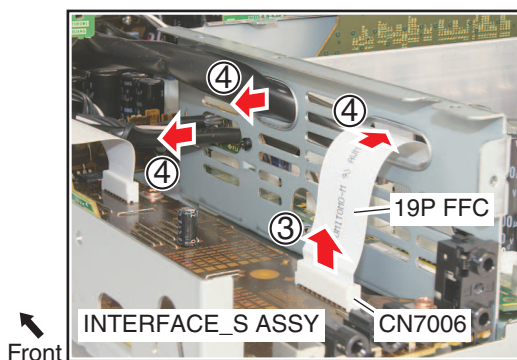
- (5) Connect the Rear Panel/91U to the Chassis ASSY/65 Ground and GND point of the D AMP_SS ASSY.
 (Refer to the “Ground Points” for the GND point of the D AMP_SS ASSY.)



[3-3] Remove the D AMP_SS ASSY

- (1) Remove the GND cable, two 24P board to board extension jig cables (GGD1871) and the PRIMARY ASSY.
 (Refer to the step (5) to (3) of “[3-2] Diagnosis”).
- (2) Remove the IR INTERFACE_S ASSY.
- (3) Disconnect the five connectors.
- (4) Pull out the cables from the holes.

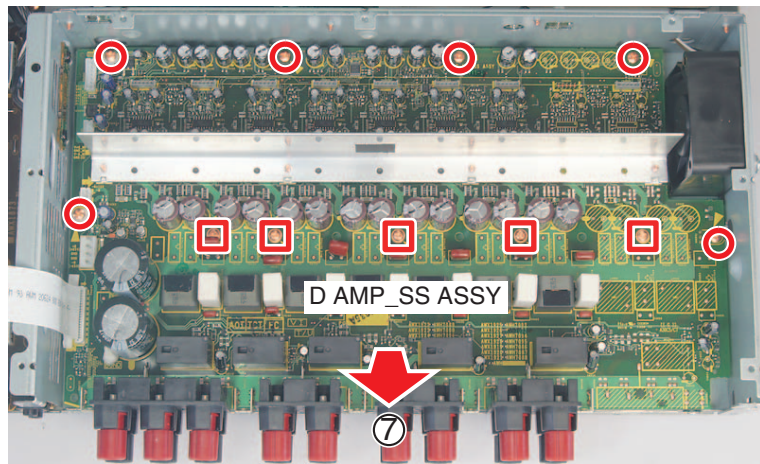
Front



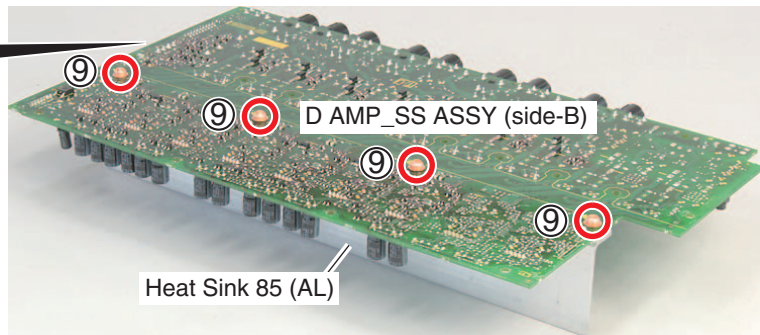
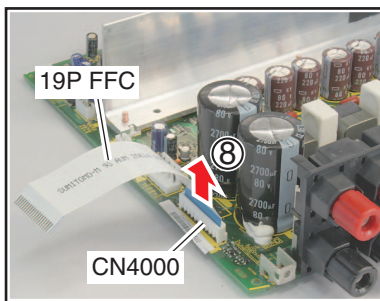
Front

- (5) Remove the six screws. (BBZ30P060FCC)
 (6) Remove the five screws. (IBZ30P150FCC)
 (7) Remove the D AMP_SS ASSY.

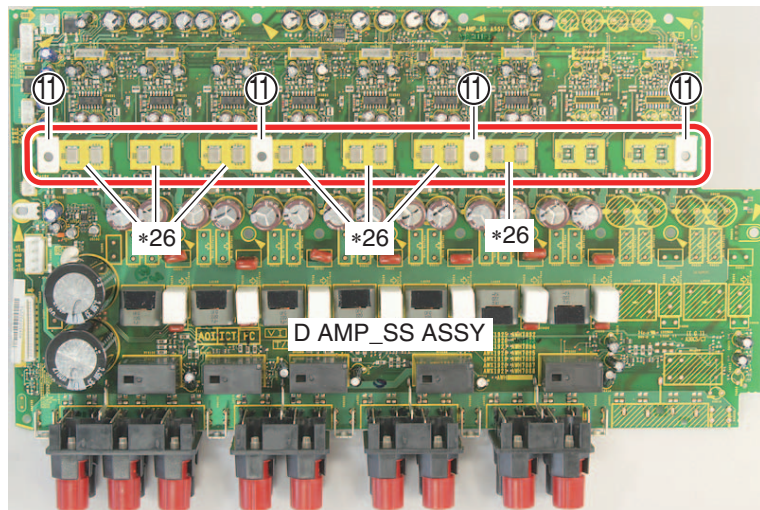
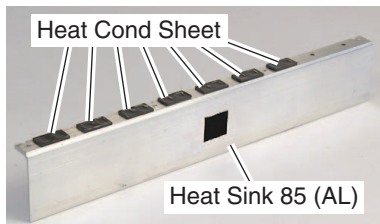
○: ⑤ x 6 □: ⑥ x 5



- (8) Remove the 19P FFC (ADD7795) by disconnect the connector.



- (9) Remove the four screws. (ABA1052)
 (10) Remove the Heat Sink 85 (AL) and the seven Heat Cond Sheets with side-A of the D AMP_SS ASSY facing upward.



Note on assembling

*26: When you exchange the Heat Cond Sheets, attach the new Heat Cond Sheets into the yellow mark of the D AMP_SS ASSY.

- (11) Remove the four Heat Sink Spacer (PLS)s.

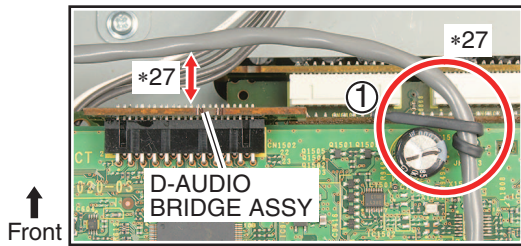
Note on assembling :

To attach the D AMP_SS ASSY in the correct position, refer to the "[1] Attach the D AMP_SS ASSY" of "Assembling of Digital Amplifier Block".

Remove the Bonnet 65 by removing the 18 screws.

[4-1] DIGITAL MAIN_L ASSY

- (1) Release the Housing(D) (ADX7821) from the PCB binder.



Note on assembling

- *27: Twist the PCB binder around the Housing(D)
(ADX7821) so that it doesn't touch to the
DIGITAL MAIN_L ASSY, D-AUDIO BRIDGE
ASSY and the Bonnet 65.**

- (2) Release the cables from the two PCB binders.

Note on assembling

- *28: Twist the PCB binders around the cables (direction of the blue arrow), so that they don't touch to the Fuse and the capacitor.

- (3) Remove the HDMI Cable (ADX7777) by disconnect the connector, and then connect the another normal HDMI Cable.

Note: Don't connect the HDMI Cable (ADX7777) provided with the product to prevent damage to the HDMI connector for the DIGITAL MAIN_L ASSY. Instead, use the another normal HDMI Cable to prevent a load from being applied to the HDMI connector.

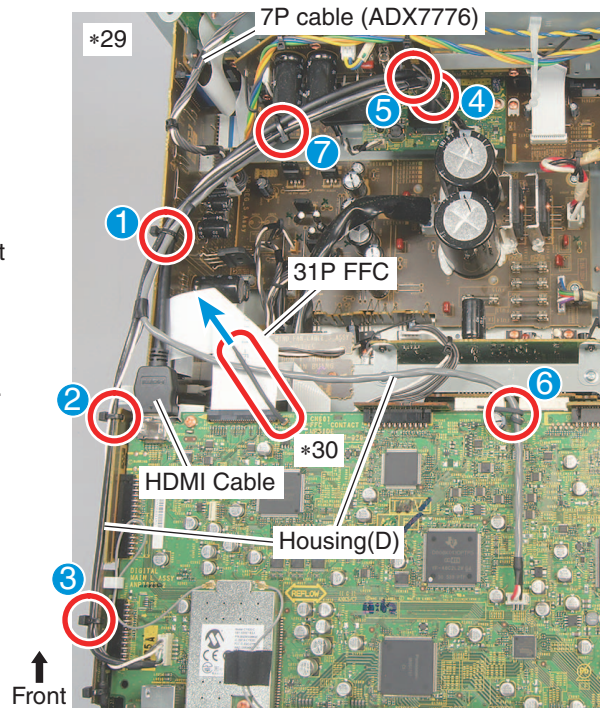
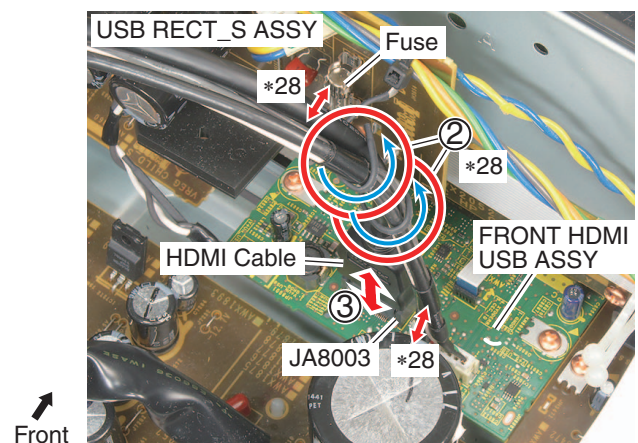
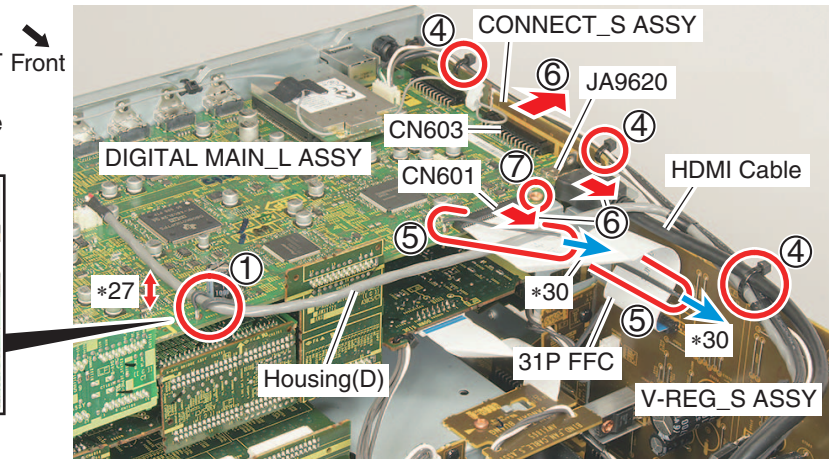
Always connect the HDMI Cable because the Wireless LED blinks, which causes a shutdown, if the power is turned on without the cable connected.

- (4) Cut the three Binders.
- (5) Release the cable from the two PCB binders.
- (6) Disconnect the two connectors.
- (7) Remove the screw. (BBZ30P060FCC)

Notes on assembling

- *29: Bind the HDMI Cable (ADX7777) and the Housing(D) (ADX7821) as numerical order of blue numbers.

- *30: PCB binders tilt in the direction of the blue arrow.



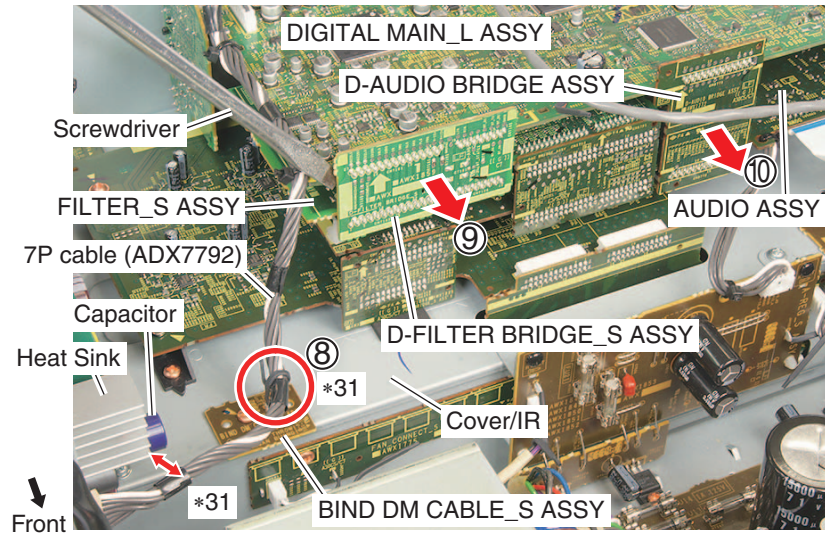
(8) Release the 7P cable (ADX7792) from the PCB binder.

(9) Remove the D-FILTER BRIDGE_S ASSY.

(10) Remove the D-AUDIO BRIDGE ASSY.

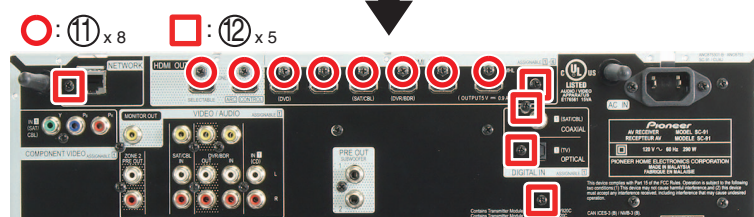
Note on assembling

*31: Twist the PCB binder around the 7P cable (ADX7792), so that it doesn't touch to the Heat Sink, capacitor and the Cover/IR.



(11) Remove the eight screws. (BMZ30P040FTB)

(12) Remove the five screws. (BBZ30P080FTB)

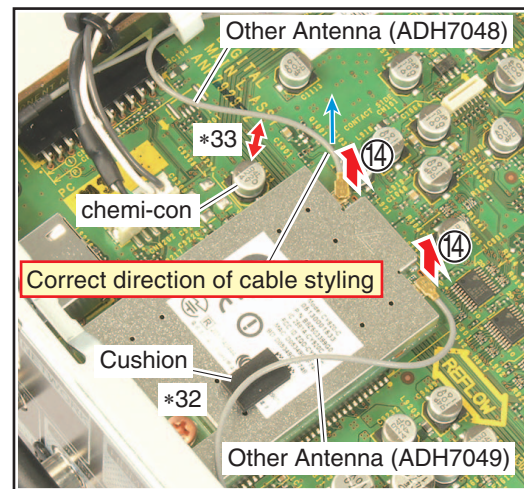


(13) Remove the Acetate Tape.

(14) Disconnect the two connectors.

(15) Unhook the hook.

(16) Disconnect the connector and then remove the DIGITAL MAIN_L ASSY (with the OPT COAX_S ASSY and Network Module).



Notes on assembling

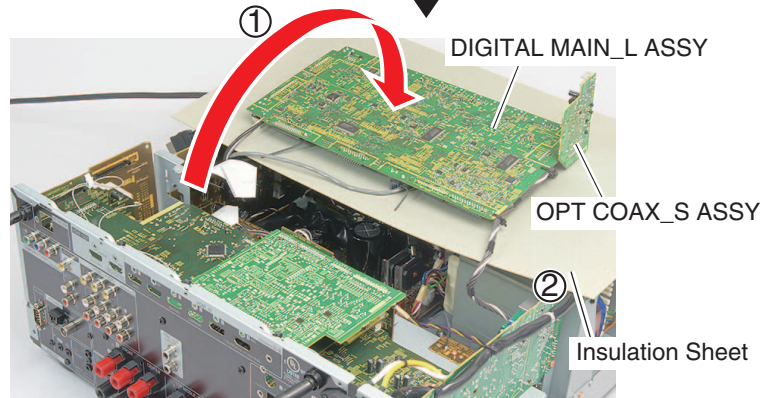
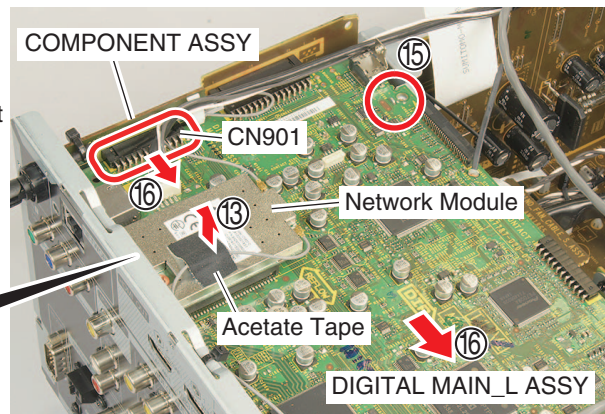
*32: Lay the Other Antenna (ADH7049) on the Cushion and then affix the Acetate Tape over them.

*33: Other Antenna (ADH7048) doesn't touch to the chemi-con.

[4-2] Diagnosis

(1) Arrange the DIGITAL MAIN_L ASSY (with the OPT COAX_S ASSY and Network Module) as shown in the photo.

(2) Insert the Insulation Sheet.

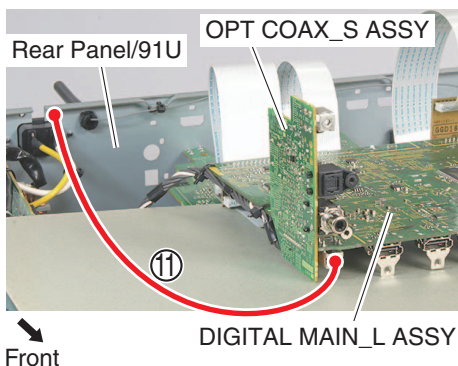


- (3) Connect the connector.
- (4) Connect the another normal HDMI Cable from the FRONT HDMI USB ASSY.

Note: Don't connect the HDMI Cable (ADX7777) provided with the product to prevent damage to the HDMI connector. Instead, use the another normal HDMI Cable to prevent a load from being applied to the HDMI connector.
Always connect the HDMI Cable because the Wireless LED blinks, which causes a shutdown, if the power is turned on without the cable connected.

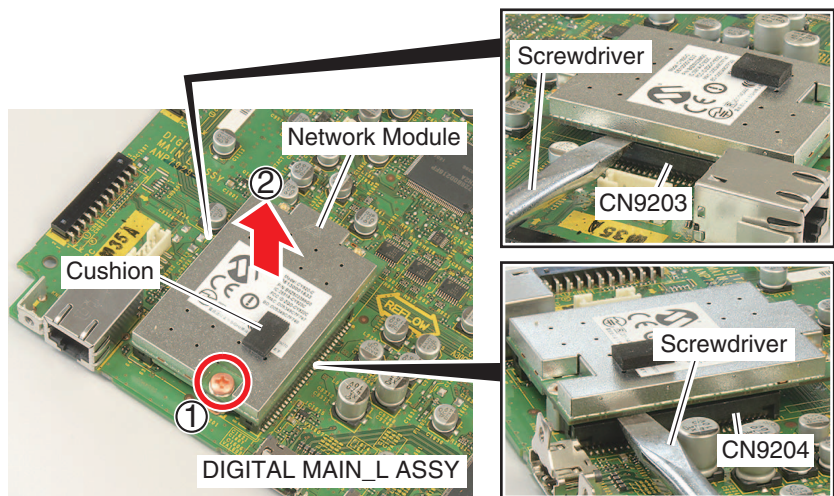
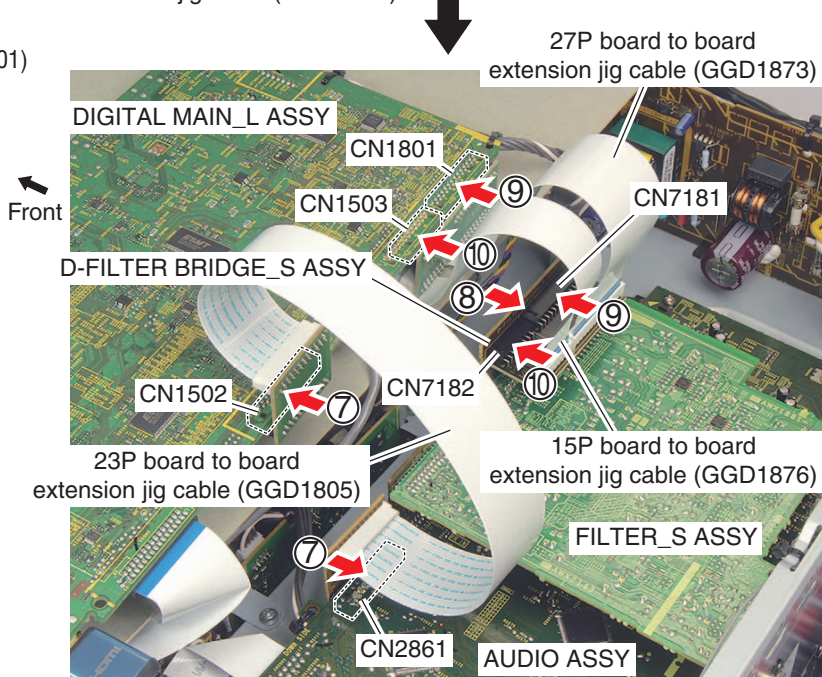
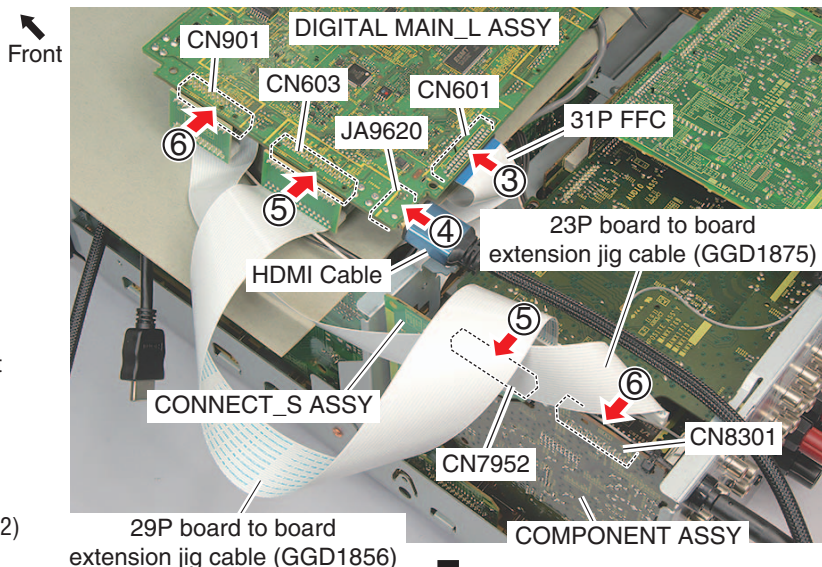
- (5) Connect the 29P board to board extension jig cable. (GGD1856)
(DIGITAL MAIN_L CN603 <-> CONNECT_S CN7952)
- (6) Connect the 23P board to board extension jig cable. (GGD1875)
(DIGITAL MAIN_L CN901 <-> COMPONENT CN8301)

- (7) Connect the 23P board to board extension jig cable. (GGD1805)
(AUDIO CN2861 <-> DIGITAL MAIN_L CN1502)
- (8) Attach the D-FILTER BRIDGE_S ASSY.
- (9) Connect the 27P board to board extension jig cable. (GGD1873)
(DIGITAL MAIN_L CN1801 <-> D-FILTER BRIDGE_S CN7181)
- (10) Connect the 15P board to board extension jig cable. (GGD1876)
(DIGITAL MAIN_L CN1503 <-> D-FILTER BRIDGE_S CN7182)
- (11) Connect the DIGITAL MAIN_L ASSY to the Rear Panel/91U.
(Refer to the "Ground points.")



[4-3] Network Module

- (1) Remove the screw. (BSZ30P060FCC)
- (2) Disconnect the two connectors, using the Large Screwdriver and then remove the Network Module.

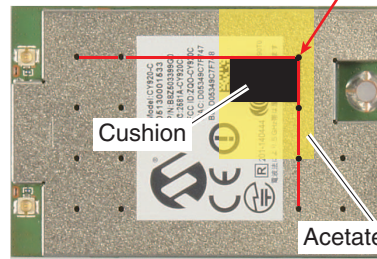


Note: Replace the Cushion to new one if it is damaged.

After attached the Network Module to the DIGITAL MAIN_L ASSY, attach the Other Antennas to the Network Module surely.

Network Module

Cushion pasting position

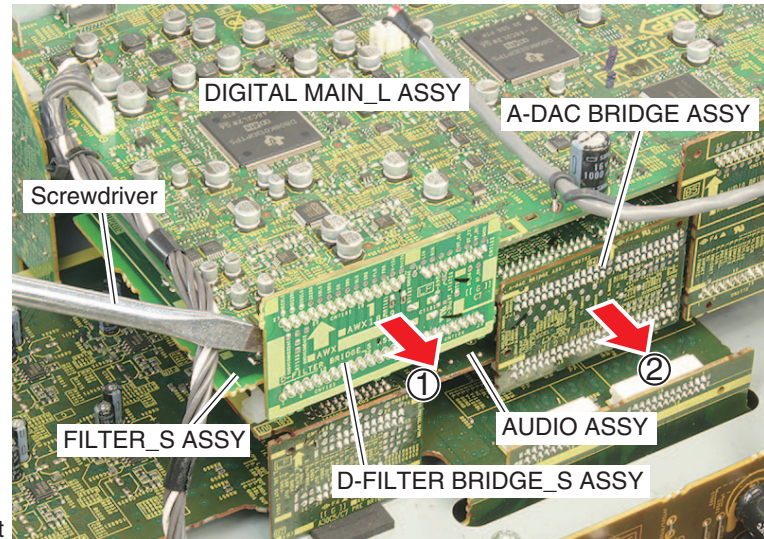


[5] FILTER_S ASSY

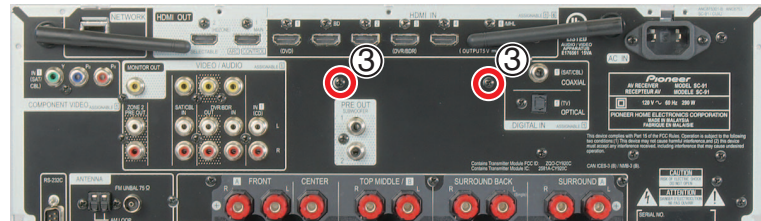
Remove the Bonnet 65 by removing the 18 screws.

[5-1] FILTER_S ASSY

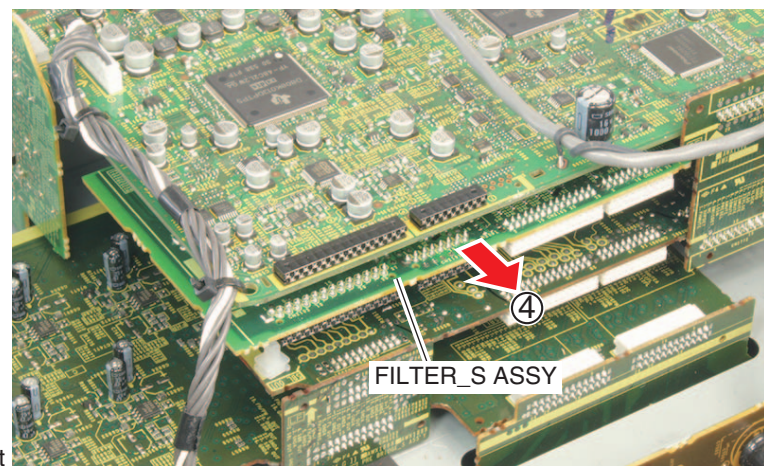
- (1) Remove the D-FILTER BRIDGE_S ASSY.
- (2) Remove the A-DAC BRIDGE ASSY.



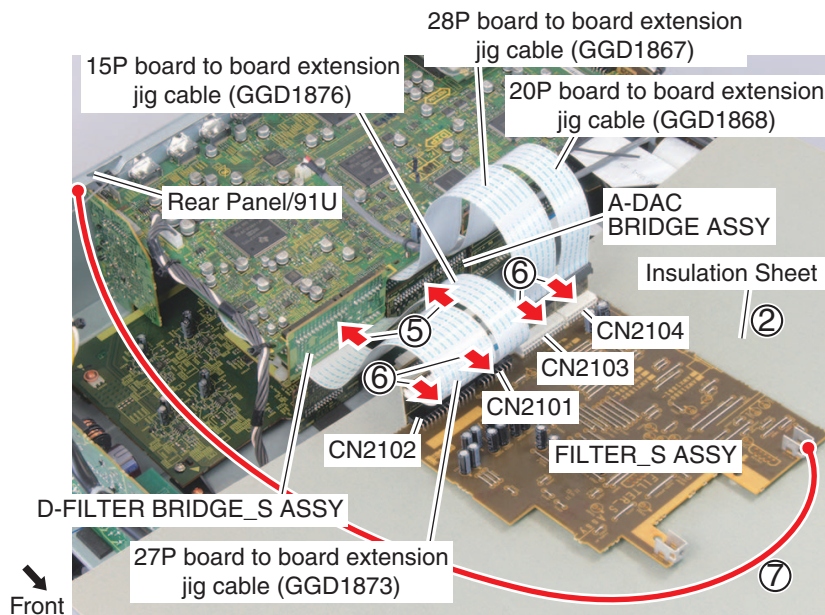
- (3) Remove the two screws. (BBZ30P080FTB)



- (4) Remove the FILTER_S ASSY.



F



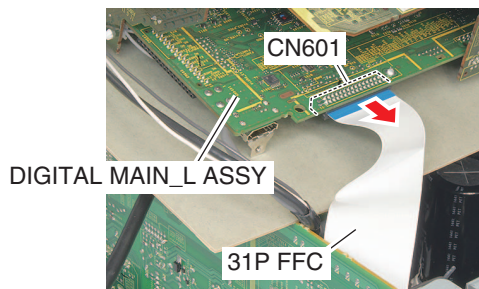
Assembling of Digital Amplifier Block

Note : The attachment positioning of the Digital Amplifier Block relates to sound quality of the unit. If assembling Digital Amplifier Block by wrong steps, sound quality would deteriorate. Therefore assemble it correctly following the procedure shown below.

[1] Attach the D AMP_SS ASSY

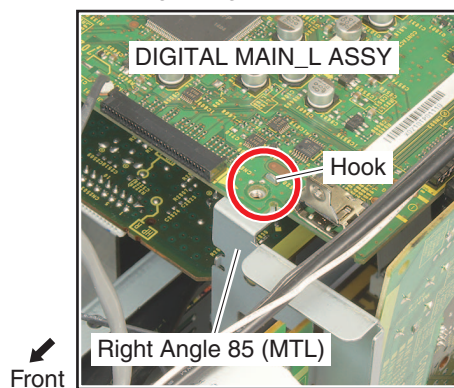
- (1) Allocate the D AMP_SS ASSY attached with the Heat Cond Sheet, Heat Sink Spacer (PLS), Heat Sink 85 (AL) and the 19P FFC (ADD7795). Don't fix it with screws.

Note: If the 31P FFC (ADD7786) is connected, disconnect the connector. (For prevention of damage of the 31P FFC.)



- (2) Temporarily attach the Rear Panel/91U (with other ASSY) to the Chassis ASSY/65, using the three screws. (BBZ30P080FTB)

Note: Fix the DIGITAL MAIN_L ASSY to the Hook of the Right Angle 85 (MTL).

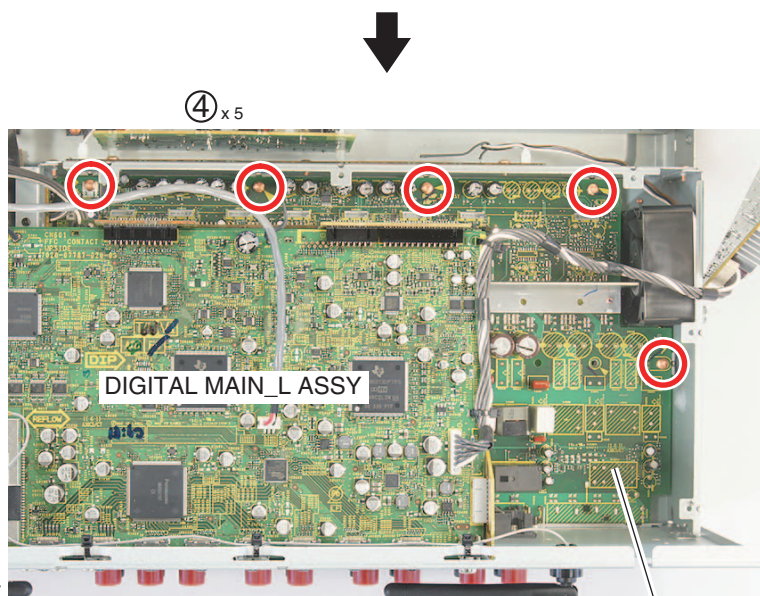
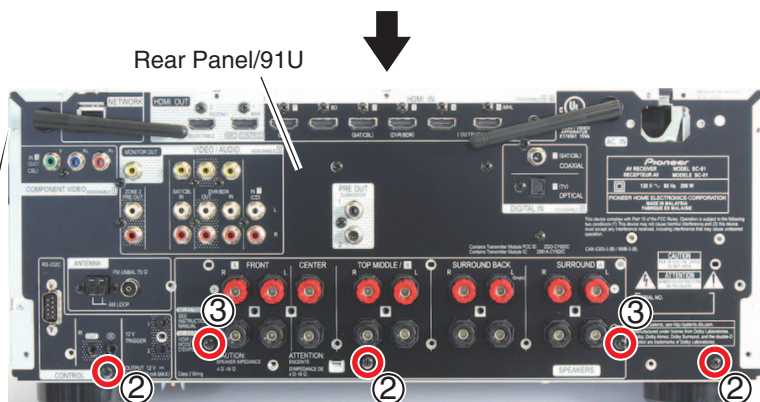
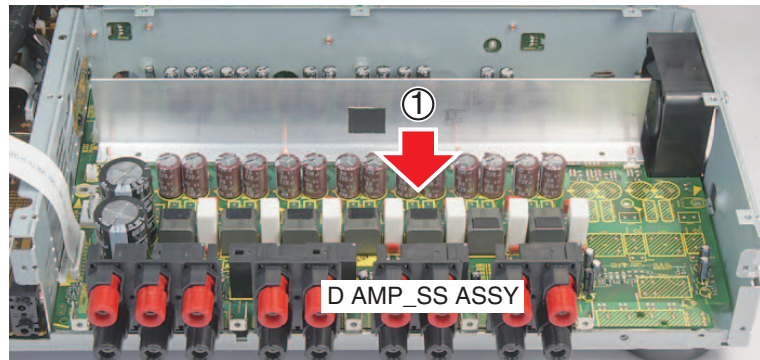


- (3) Temporarily attach the D AMP_SS ASSY to the Rear Panel/91U, using the two screws. (BBZ30P080FTB)

- (4) Attach the D AMP_SS ASSY, using the five screws. (BBZ30P060FCC)

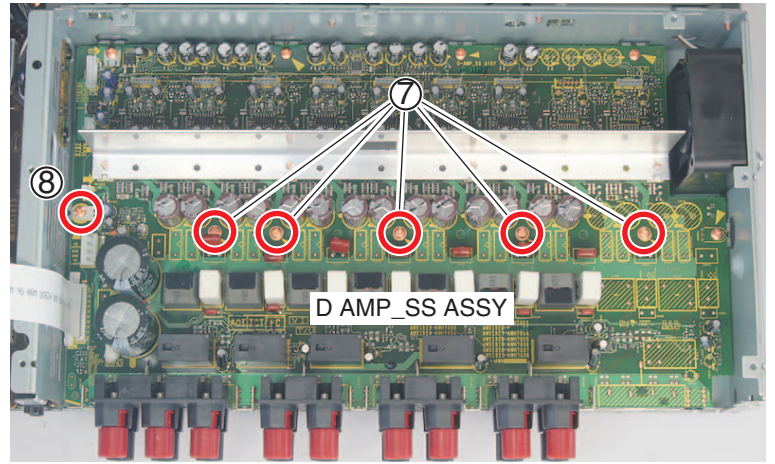
- (5) Remove the five screws temporarily fixed in accordance with step (2) and (3). (BBZ30P080FTB)

- (6) Remove the Rear Panel/91U (with other ASSY).

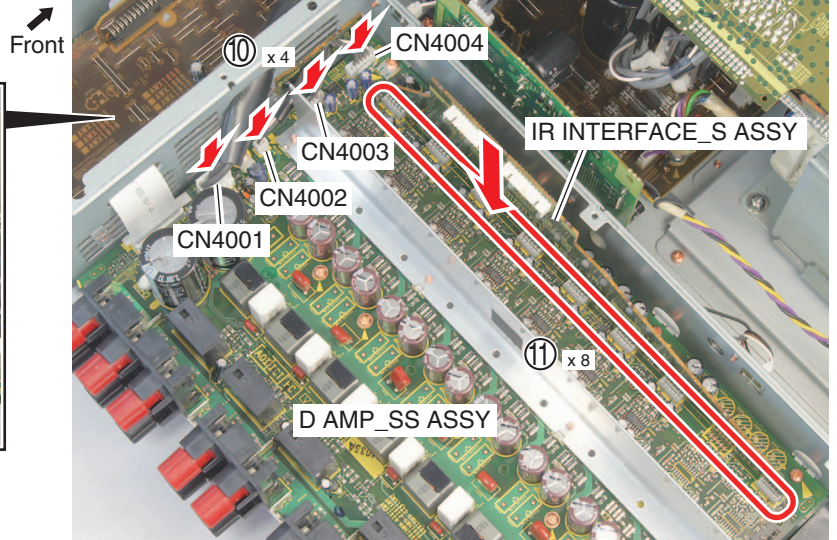
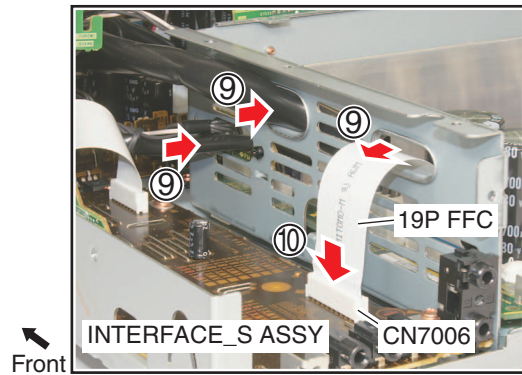


D AMP_SS ASSY

- (7) Attach the five screws. (IBZ30P150FCC)
 (8) Attach the screw. (BBZ30P060FCC)



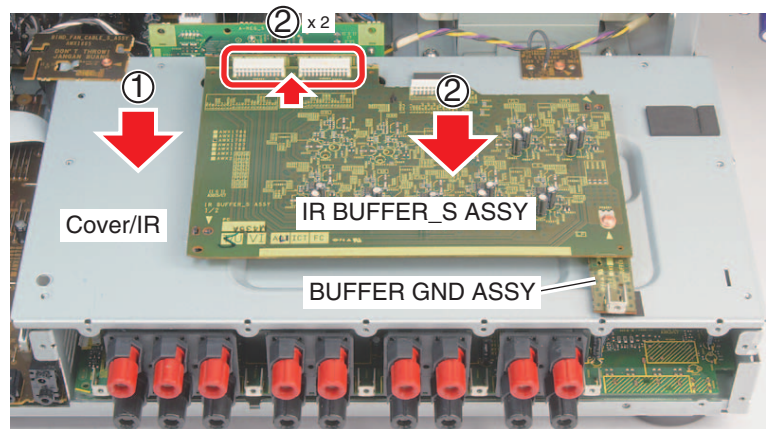
- (9) Put the cables through the holes.
 (10) Connect the five connectors.



- (11) Attach the IR INTERFACE_S ASSY.

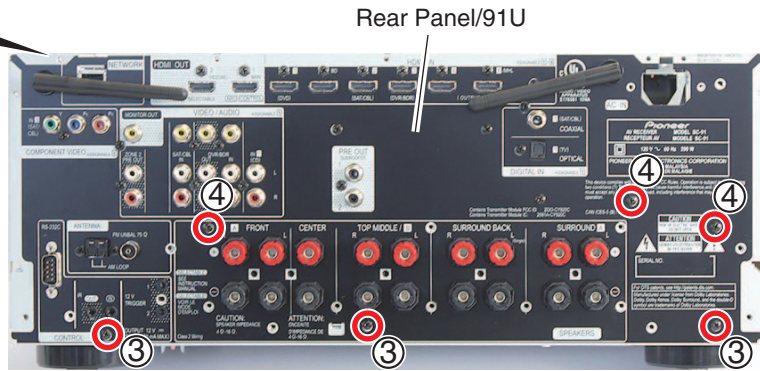
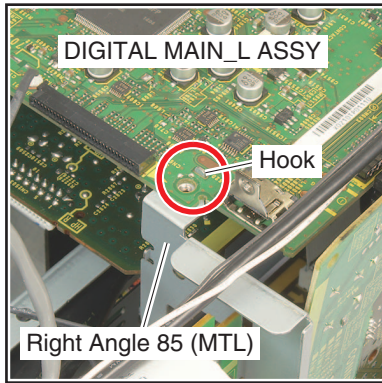
[2] Attach the Cover/IR and the IR BUFFER_S ASSY

- (1) Allocate the Cover/IR. Don't fix it with screws.
 (2) Allocate the IR BUFFER_S ASSY (with the BUFFER GND ASSY) and connect the two connectors. Don't fix it with screws.



- (3) Temporarily attach the Rear Panel/91U (with other ASSY) to the Chassis ASSY/65, using the three screws. (BBZ30P080FTB)

Note: Fix the DIGITAL MAIN_L ASSY to the Hook of the Right Angle 85 (MTL).



- (4) Temporarily attach the Cover/IR and the BUFFER GND ASSY to the Rear Panel/91U, using the three screws. (BBZ30P080FTB)

- (5) Attach the two Angle/REGs to the A-REG_S ASSY, using the two Nylon Rivets. (AEC7406)

- (6) Attach the Cover/IR, using the five screws. (AMZ30P060FTC)

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

- (7) Attach the IR BUFFER_S ASSY, using the screw. (BPZ30P080FNI)

- (8) Remove the six screws temporarily fixed in accordance with step (3) and (4). (BBZ30P080FTB)

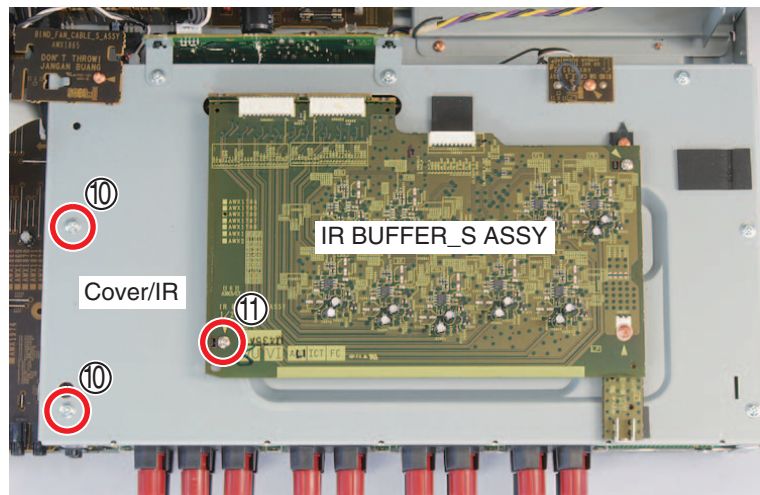
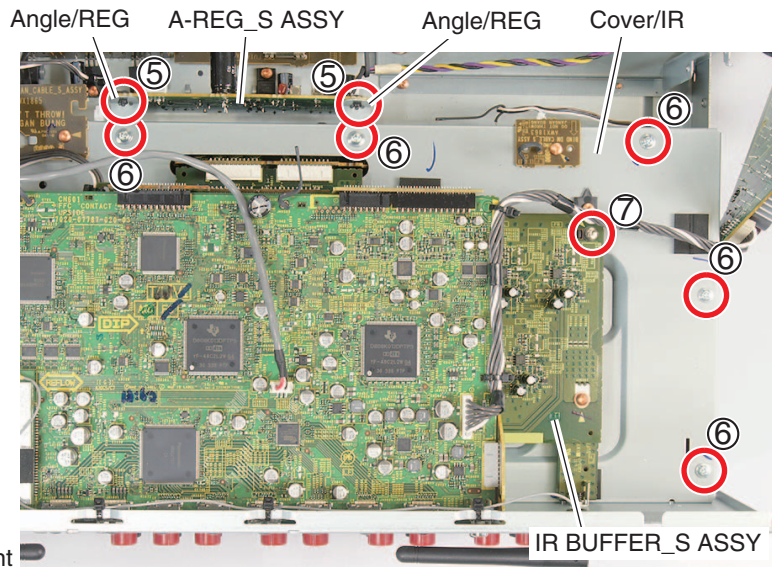
- (9) Remove the Rear Panel/91U (with other ASSY).

- (10) Attach the two screws. (AMZ30P060FTC)

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

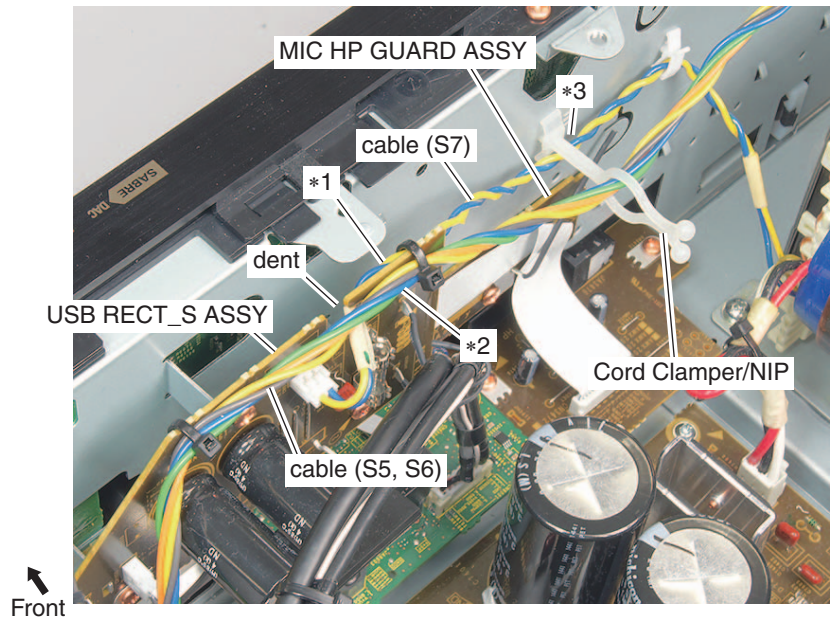
- (11) Attach the screw. (BPZ30P080FNI)

Refer to the step (6) to (1) of "[3-1] Remove the Cover/IR" of "Disassembly" henceforth.

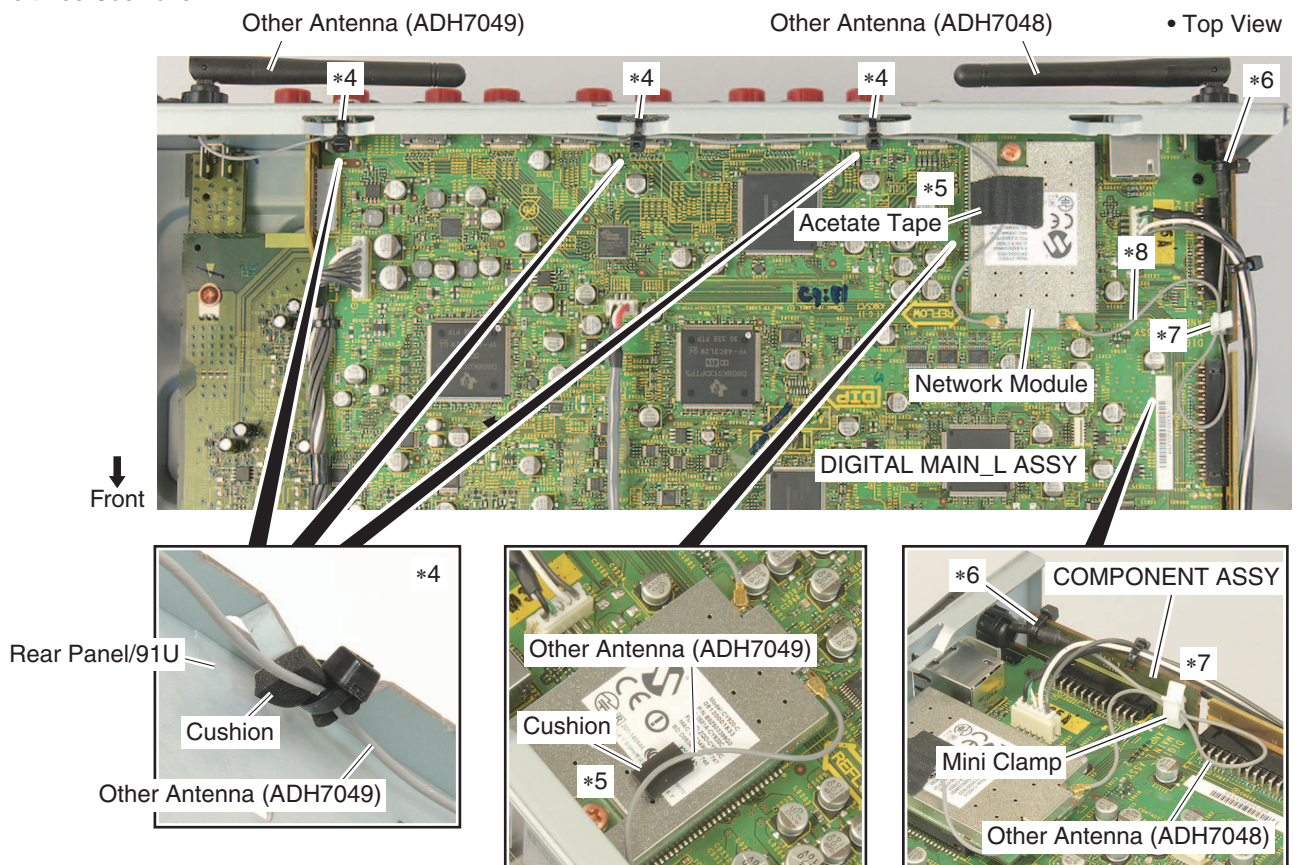


Styling of Other Cables

- *1: Insert the cable (S7) through the dent and then bind on side-B of the USB RECT_S ASSY.
- *2: Bind the cable (S5, S6) on side-A of the USB RECT_S ASSY.
- *3: Pass the cable (S7) below the Cord Clamper/NIP.



- *4: Bind the Other Antenna (ADH7049) below the three Cushions.

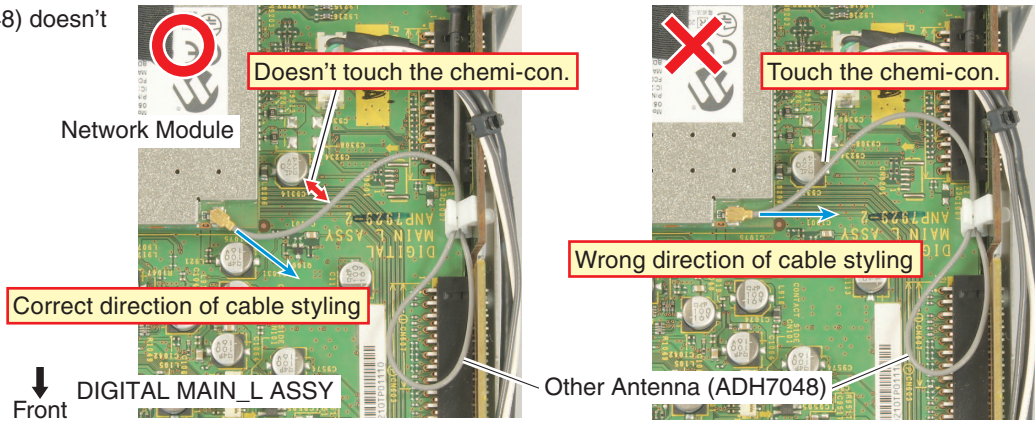


Note: Replace the Cushion if it is damaged.

- *5: Lay the Other Antenna (ADH7049) on the Cushion and then affix the Acetate Tape over them.
- *6: Bind the Other Antenna (ADH7048).
- *7: Bend the Other Antenna (ADH7048) and then cramp it twice with the Mini Clamp.

*8: Other Antenna (ADH7048) doesn't touch to the chemi-con.

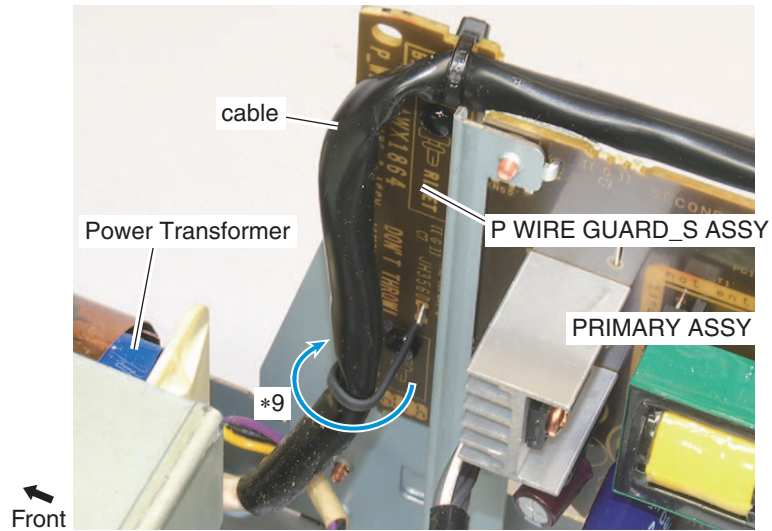
A



B

*9: Twist the PCB binder around the cable
(direction of the blue arrow)
(Power Transformer <-> PRIMARY ASSY).

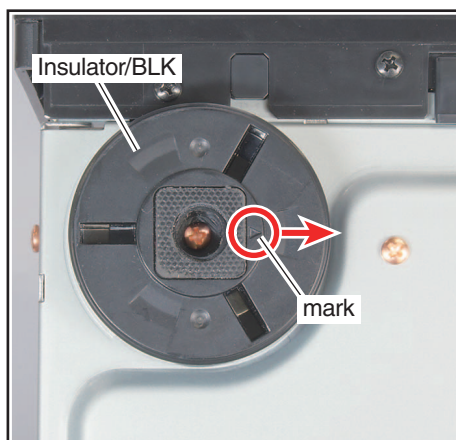
C



Direction of Insulator/BLK

D

(1) Align the mark at under surface of the Insulator/BLK with the direction of photo.



E

F

• Bottom view



8. EACH SETTING AND ADJUSTMENT

8.1 ADJUSTMENT REQUIRED WHEN THE UNIT IS REPAIRED OR REPLACED

■ When any of the following assemblies is replaced

DISPLAY ASSY	➡	"8.3 REGION WRITING"
DIGITAL MAIN_L ASSY	➡	"8.2 HOW TO SAVE AND LOAD THE SETTING USING BACKUP FUNCTION WITH USB MEMORY"
Other assemblies	➡	No adjustment required

■ When any of the following parts is replaced

DIGITAL MAIN_L ASSY	➡	No adjustment required 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. • IC451 (TPS65251RHA-TLB) • IC1602 (MN864787-K) • IC9002 (D808K013DPTP456-K) • IC9602 (SII9587CNUC-3-K) • IC9703 (D808K013DPTP456-K)
D AMP_SS ASSY	➡	No adjustment required 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. • Q4101,4102 (IRF6775MPBFS1-TRB) • Q4201,4202 (IRF6775MPBFS1-TRB) • Q4301,4302 (IRF6775MPBFS1-TRB) • Q4401,4402 (IRF6775MPBFS1-TRB) • Q4501,4502 (IRF6775MPBFS1-TRB) • Q4601,4602 (IRF6775MPBFS1-TRB) • Q4701,4702 (IRF6775MPBFS1-TRB)
DISPLAY ASSY	➡	After replacing IC6001(R5F100MHFAFA), perform "8.3 REGION WRITING" and then, update to the latest firmware.
Other assemblies	➡	No adjustment required

Note 1:

After replacing NETWORK MODULE (AXX7293) or DIGIAL MAIN_L ASSY, the unit needs to update.
Refer to "UPDATE PANEL Mode (Version update)" on "8.4 HOW TO UPDATE FIRMWARE"

Note 2:

After replacing NETWORK MODULE (AXX7293) or DIGIAL MAIN_L ASSY, the unit needs to test Wi-Fi function.
Refer to "5.3 CONFIRMATION OF THE NETWORK MODULE"

■

[Introduction]

A This model is capable of saving the set values stored in the MAIN Ucom (IC103) of DIGITAL MAIN_L ASSY in the USB and loading them in a new DIGITAL MAIN_L ASSY.
(Note that MAIN Ucom should normally operate to enable this function.)

When replacing DIGITAL MAIN_L 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
B	Last memory for turning ON/OFF the Main power and power supply for ZONE2 and HDZONE Last memory for inputting the Main ZONE, ZONE2 and HDZONE Data to be save upon the operation of protection circuit HDMI OUT2 terminal setting (MAIN/HDZONE)	EVENT Ucom IC6001 (DISPLAY ASSY)
	Internet Radio Last Station, Favorite, etc.	Network Module (AXX7293)

(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(FAT16 or FAT32)

[File saving format]

C Files are to be saved in the following format: Model number_backup version.extension(avr)
Example: SC-91_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. SERVICE 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.

- D
- *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 SERVICE MODE and select [USB BAK ◀ HOLD ▶] with ↑↓ keys.
(See [6. SERVICE MODE] for how to enter the SERVICE 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.

- E
- * 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)
-

F

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 "2006/03/08 20:01."
- In principle, please implement Load without making of factory default settings.
- Depending on the type of USB memory device, the setting file may not have properly been saved even though [COMPLETE] is displayed after a SAVE process.
Before replacing the DIGITAL MAIN_L ASSY, perform a LOAD process and check that [COMPLETE] is displayed.

[Cautions]

- You cannot use the backup function with USB memory until the Network Module software starts.
- It takes about 60 seconds before the Network Module software starts.

8.3 REGION WRITING

This is the function to write Region information by using an USB Memory.
Automatic start-up is conducted with POWER ON if the Region information is not written.
This work is carried out when DISPLAY ASSY is replaced.

[Preparations]

1. Please copy the REGION File for the same model number and the point of destination with the object set to the route directory of USB Memory.

Note: Copy only the REGION File to the USB memory. Never copy to other files.

[Precautions]

Please be sure to use the REGION File for the same model number and the point of destination with the object set.
If you make a mistake, it is impossible to rewrite. (Replacement of DISPLAY ASSY is required again)

Key operation	FL display
Plug in the AC cord. (No Region information)	
	
Power On (Automatically)	POWER ON
	
Start up finished	
Function initial display	SET REGION
	
Connect USB Memory. Loading finished correctly	
Region Writing finished	SC-91/CUXJ

[Procedures]

1. Connect an AC cord after replacing DISPLAY ASSY. (Power turns ON automatically)
2. [SET REGION] is displayed several seconds after [POWER ON] is displayed on the front panel. (Standby status for REGION File writing)
3. Automatic writing starts when USB memory prepared by [Preparation: 1] is inserted. (Degree of several seconds)
4. The written model number is displayed after the normal completion of REGION File writing. (14 characters, maximum)
5. Pull out the AC cord.

[Cautions]

- Writing of destination is not completed until the Network Module software starts.
- It takes about 60 seconds before the Network Module software starts.

[Case of Abnormal Completion]

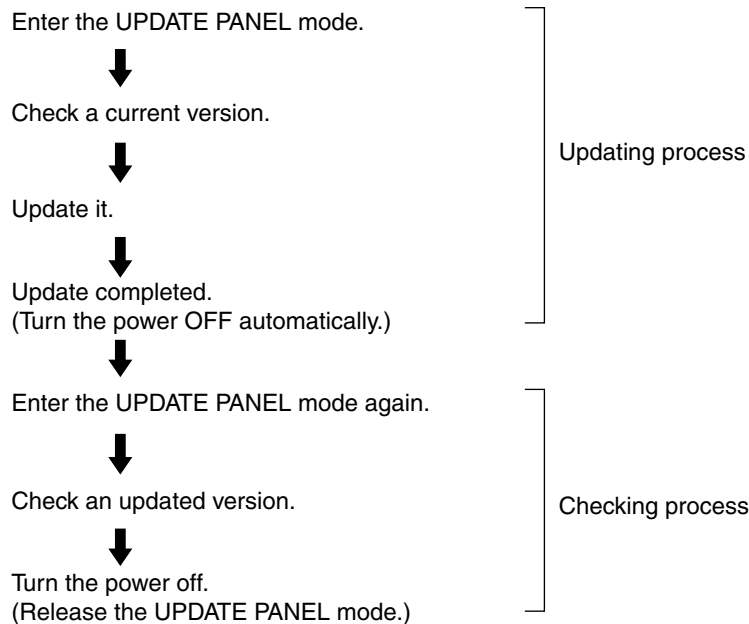
If REGION File writing did not complete normally, an error number is displayed rather than the model number. Please perform rewriting based on the coping strategy by error numbers below.

FL Display Examples										Reason for Display	Coping Strategy
		E	R	R	O	R		R	0 1	•Case of unsuccessful USB Read-in •Case of No File for Writing	•Try writing with other USB Memory •Place writing required REGION File to root directory *1
		E	R	R	O	R		R	0 3	Case of destroyed File	Download REGION File again
		E	R	R	O	R		R	0 4	Case of destination information for different model is written	Download REGION File for correct model

*1 If an error is appeared, disconnect and connect the AC cord within 30 seconds and try to write the destination again.

8.4 HOW TO UPDATE FIRMWARE

Workflow



MAIN com, SUB com (EVENT) , DSP Flash ROM and Network Module 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.

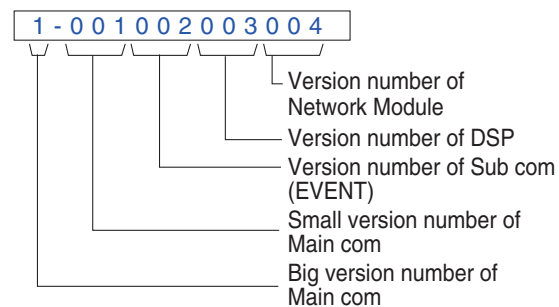
[Procedures]

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.

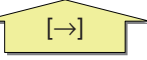
Key operation	FL display
[TUNE↑] + [STANDBY ON/OFF]  Booting is completed  [TUNE↓] or [TUNE↑]  	POWER ON Version is displayed. 1 - 001002003004 Update Menu UPDATE

Front Panel Key

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



"***" displayed instead of number indicates the process while the version is obtained.
 Wait for a while until the version is displayed.

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

A

B

C

D

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F

Key operation	FL display
UPDATE FILE searching completed 	
UPDATE start 	Updating process * U p d a t i n g . 0 %
UPDATE completed 	
5 Second 	Update completion display * U p d a t i n g . 1 0 0 %
Power turns off automatically. (All ZONE OFF) Disconnect the USB MEMORY.	

Update time is fluctuated by contents of the update. It will take about 26 minutes at the maximum.
 (Actual time is from 3 minutes to 26 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.

- [Cautions]**
- You cannot perform an update until the Network Module software starts.
 - It takes about 60 seconds before the Network Module software starts.

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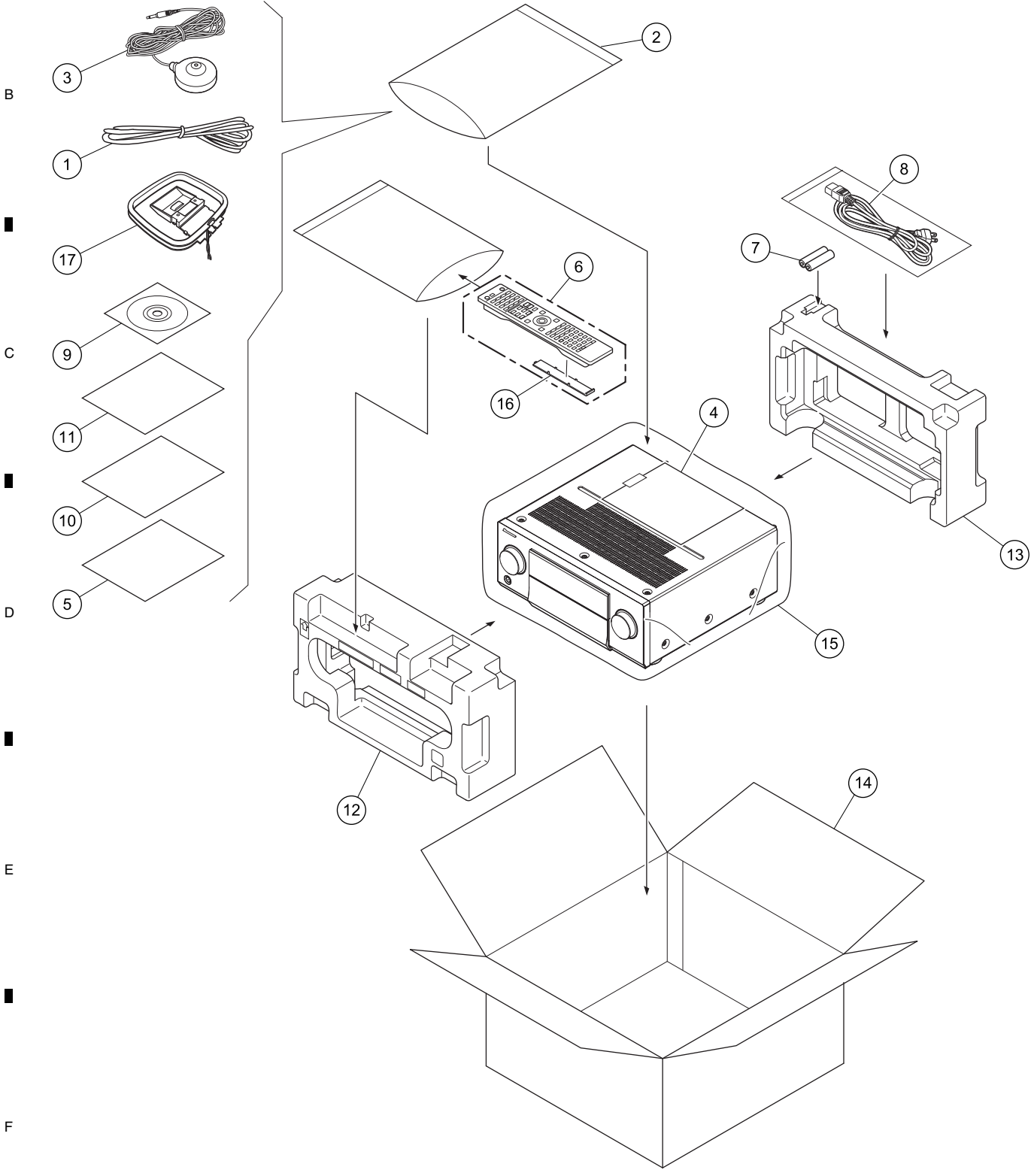
1234

9. EXPLODED VIEWS AND PARTS LIST

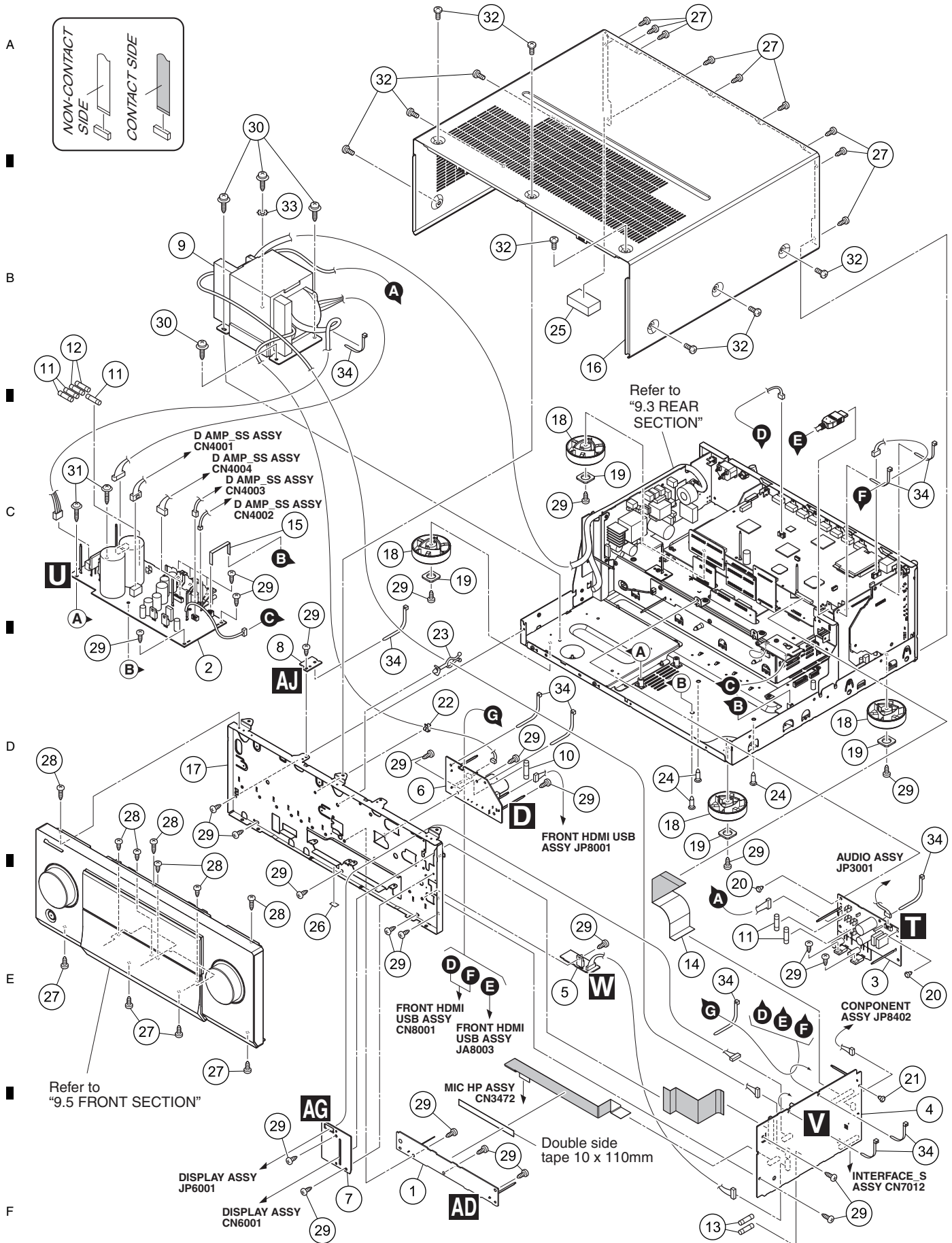
NOTES:

- 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



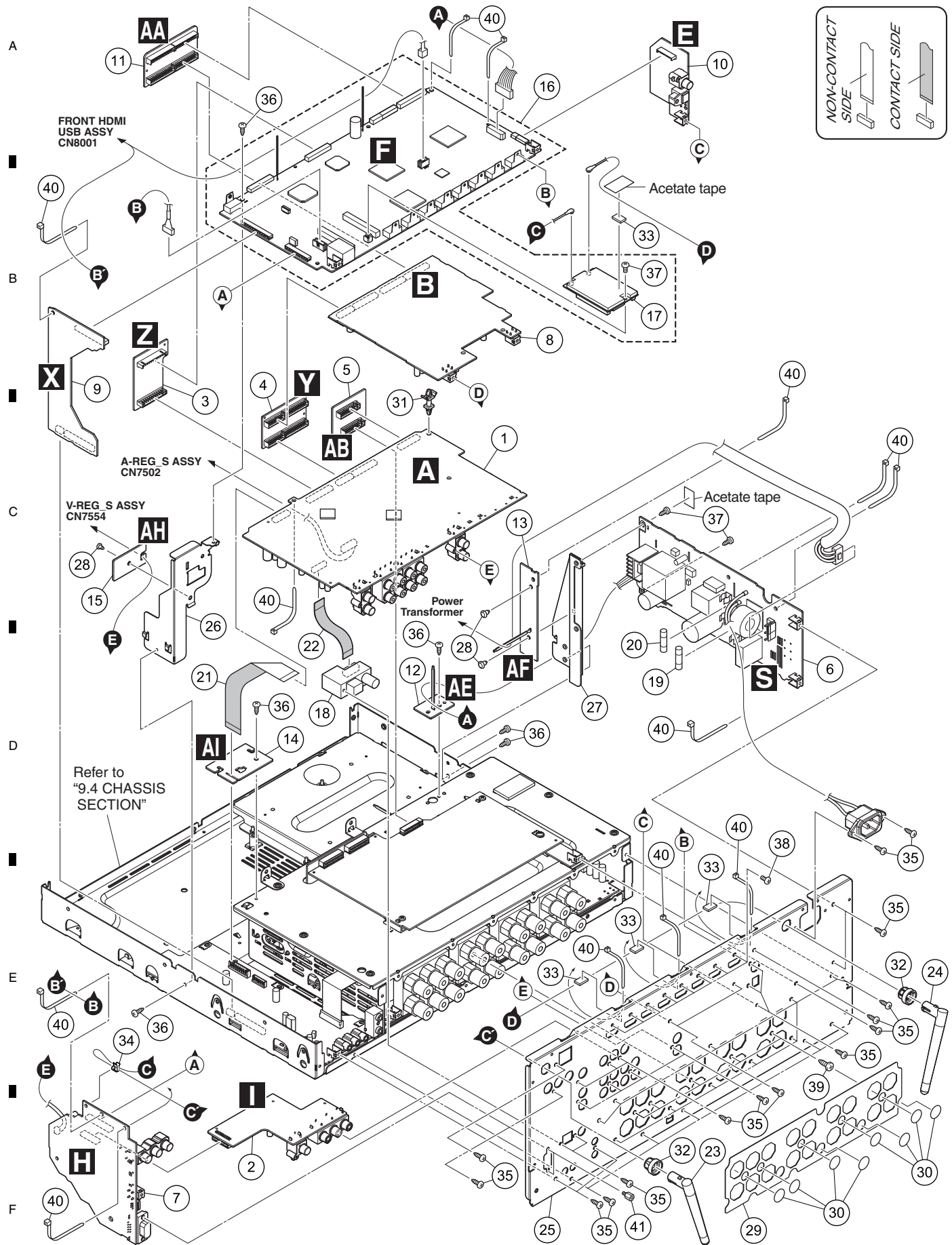
9.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.	
	1	MIC HP GUARD ASSY	AWX2052		21	Push Rivet	AEC7071	
	2	IR REG_S ASSY	AWX2142	NSP	22	Mini Clamp	VEC1597	A
	3	A-REG_S ASSY	AWX2171		23	Cord Clamper/NIP	AEC7655	
	4	V-REG_S ASSY	AWX2175		24	PCB Holder	PNW2029	
	5	VREG CHILD_S ASSY	AWX2176		25	Cushion/T12	AEB7441	
	6	USB RECT_S ASSY	AWX2177		26	Cushion 11x7	AED7092	
NSP	7	FFC GUARD_S ASSY	AWX1862		27	Screw	BBZ30P080FTB	
NSP	8	TRANS VREG STYL_S ASSY	AWX1890		28	Screw	BBZ30P080FCC	
⚠	9	Power Transformer	ATS7486		29	Screw	BBZ30P060FCC	
⚠	10	Fuse (FU10 : 6A)	REK1151		30	Screw 4X12 (FE)	ABA7109	
⚠	11	Fuse (FU11, FU12, FU15, FU21, FU22 : 1.25A)	REK1143		31	Screw	IBZ30P180FTC	B
⚠	12	Fuse (FU13, FU14 : 1A)	REK1142		32	Screw	BCZ40P060FTB	
⚠	13	Fuse (FU31, FU32 : 1.6A)	REK1144		33	Toothed Lock Washer	WH40FNI	
	14	31P FFC (J0004)	ADD7786		34	Binder (BK-1)	ZCA-BK1	
	15	3P FFC (J0007)	ADD7793					
	16	Bonnet 65	AZN8052					
NSP	17	Panel Stay 85 (MTL)	ANG7684					
	18	Insulator/BLK	AMR7707					
	19	Cushion/INS	AEB7447					C
	20	Nylon Rivet	AEC7406					

9.3 REAR SECTION



(1) REAR SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	AUDIO ASSY	AWX2075	21	15P FFC (J0002)	ADD7790	
2	COMPOSITE ASSY	AWX2084	22	9P FFC (J0008)	ADD7794	A
3	D-AUDIO BRIDGE ASSY	AWX1772	23	Other Antenna	ADH7048	
4	A-DAC BRIDGE ASSY	AWX1774	24	Other Antenna	ADH7049	
5	PRE BRIDGE_S ASSY	AWX1889	25	Rear Panel/91U	ANC8753	
6	PRIMARY ASSY	AWX2037	26	Right Angle 85 (MTL)	ANG7687	
7	COMPONENT ASSY	AWX2104	27	Angle/PRI	ANG7747	
8	FILTER_S ASSY	AWX2143	28	Nylon Rivet	AEC7406	
9	CONNECT_S ASSY	AWX2147	29	Insulating Sheet/63	AEC7658	
10	OPT COAX_S ASSY	AWX2148	30	Cushion Circle 14B	AED7081	
11	D-FILTER BRIDGE_S ASSY	AWX1859	NSP 31	PCB Spacer	AEC1084	B
12	BIND DM CABLE_S ASSY	AWX1863	32	Bush/ANT	AMR7706	
13	P WIRE GUARD_S ASSY	AWX1864	33	Cushion	AEB7449	
NSP 14	BINDFAN CABLE_S ASSY	AWX1865	NSP 34	Mini Clamp	VEC1597	
NSP 15	VREG GUARD ASSY	AWX2053	35	Screw	BBZ30P080FTB	
16	DIGITAL MAIN_L ASSY	AWX2021	36	Screw	BBZ30P060FCC	
17	Network Module	AXX7293	37	Screw	BSZ30P060FCC	
18	AM/FM Tuner Unit	AXX7282	38	Screw	BMZ30P040FTB	
⚠ 19	Fuse (FU1 : 10A)	REK1154	39	Screw	BPZ30P100FTC	
⚠ 20	Fuse (FU4 : 2A)	REK1139	40	Binder (BK-1)	ZCA-BK1	C
			41	Hex Head Screw 2.85x7	ABA7078	

4



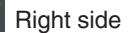
(1) CHASSIS SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>		
1	D AMP_SS ASSY	AWH7116	21	PCB Mold (PP)	AMR7536		
2	FAN CONNECT ASSY	AWX1775	22	Damper Bushing 83	AEB7425	A	
3	IR BUFFER_S ASSY	AWX2100	23	Cushion 5x8	AEB7397		
4	BUFFER GND ASSY	AWX1789	24	Nylon Rivet	AEC7406		
5	INTERFACE_S ASSY	AWX2138	25	PCB Spacer	AEC7080		
NSP	6	IR INTERFACE_S ASSY	AWX1778	26	Heat Cond Sheet	AEB7434	
	7	IR EDGE GUARD_S ASSY	AWX1779	27	Heat Sink Spacer (PLS)	AMR7568	
	⚠ 8	DC Fan Motor	AXM7040	28	Cushion/T3	AEB7448	
	9	19P FFC (J0009)	ADD7795	29	Insulating Sheet	AEC7654	
	10	4P Housing (Y0021)	ADX7779	30	Spacer	AEC1065	
	11	4P Housing (Y0022)	ADX7780	31	Screw	BPZ30P080FNI	B
	12	2P Housing (Y0023)	ADX7781	32	Screw	BBZ30P080FCC	
	13	7P Housing (Y0024)	ADX7782	33	Screw	BBZ30P060FCC	
NSP	14	Chassis ASSY/65	AXG7445	34	Screw (3x11.6)	ABA7146	
NSP	15	Box/IR	ANF7067	35	Screw	ABA1052	
	16	Cover/IR	ANF7068	36	Screw	IBZ30P150FCC	
NSP	17	Heat Sink 85 (AL)	ANH7234	37	Screw	AMZ30P060FTC	
	18	Angle/REG	ANG7748	38	Screw (Steel)	ABA1011	
	19	PCB Mold (PP)	AMR2533	39	Screw	BBZ30P180FCC	
	20	Insulator ICE (PLS)	AMR7523	40	Binder (BK-1)	ZCA-BK1	C

△



E



F



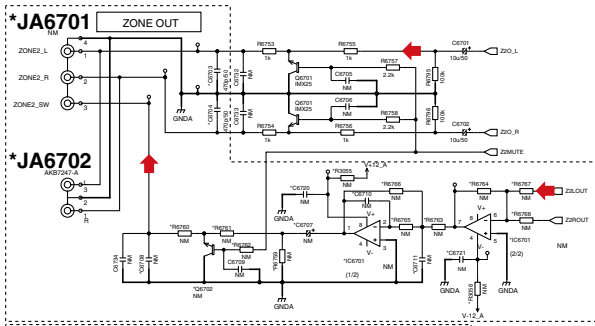
(1) FRONT SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	DISPLAY ASSY	AWX2025	16	Shaft/DOR	AMR7704	
2	VOL ASSY	AWX2029	17	Door/SHU	AAN7241	A
3	POWER SW ASSY	AWX2030	18	Damper/DOR	AXA7159	
4	MIC HP ASSY	AWX2047	19	Door Plate LX55 (MTL)	ANG7682	
5	ENCODER ASSY	AWX2051	20	Door Base 85 (PLS)	AMR7565	
			21	VOL.Knob LX55 (PLS)	AAA7068	■
NSP 6	FRONT HDMI USB ASSY	AWX2054	22	Power Ring LX85 (PLS)	AAK8571	
7	PANEL GUARD ASSY	AWX1734	23	Window/SLU	AAK8594	
8	5P FFC (J0001)	ADD7783	24	Filter 07KU (PC)	AAK8443	
9	15P FFC (J0003)	ADD7792	25	Panel/91U	AMB8088	
10	39P FFC (J0010)	ADD7796				
11	HDMI Cable	ADX7777	⚠ 26	Panel/CU	AMB8085	B
12	Housing(D) (Y0025)	ADX7821	27	STDBY BTN LX85 ASSY	AAD7804	
13	Door Spring (SUS)	ABK7061	28	Ring	ABH7213	
14	Cushion Circle 6B	AED7083	29	VOL Stabilizer LX85	AEC7644	
15	Cushion 11x7	AED7092	30	Screw	BBZ30P080FTB	■
			31	Screw	BPZ30P080FNI	
			32	Nut	NK90FTC	
						C
						■
						D
						■
						E
						■
						F

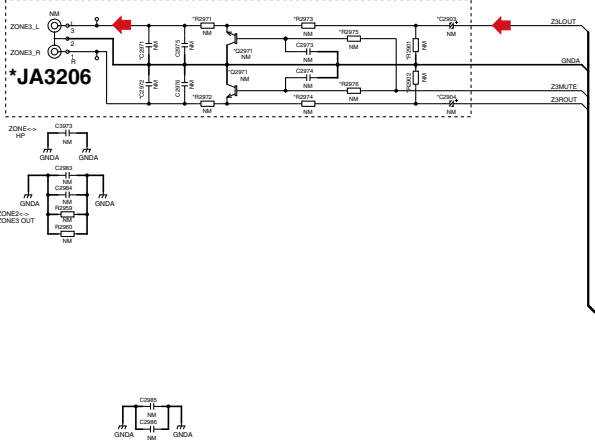
10. SCHEMATIC DIAGRAM

10.1 AUDIO ASSY (1/2)

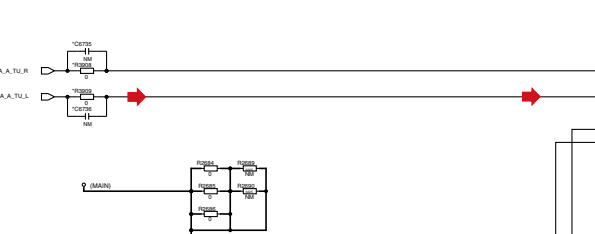
A



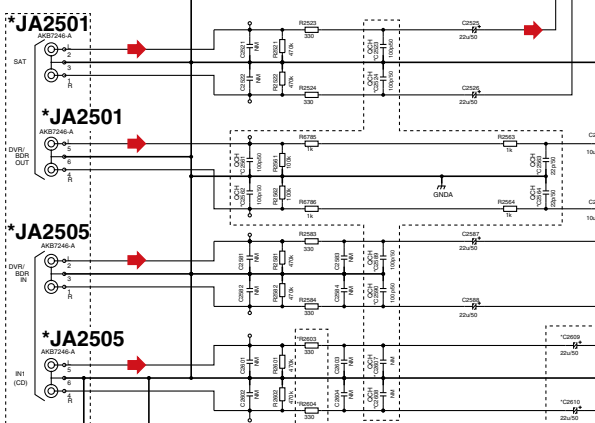
B



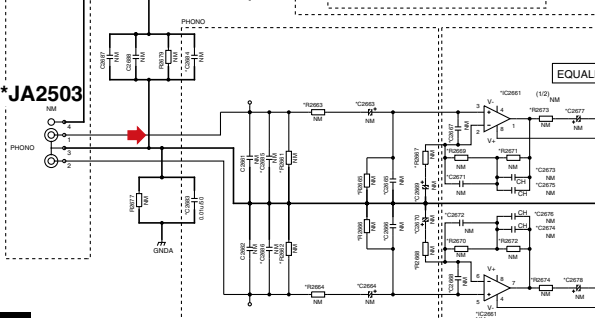
C



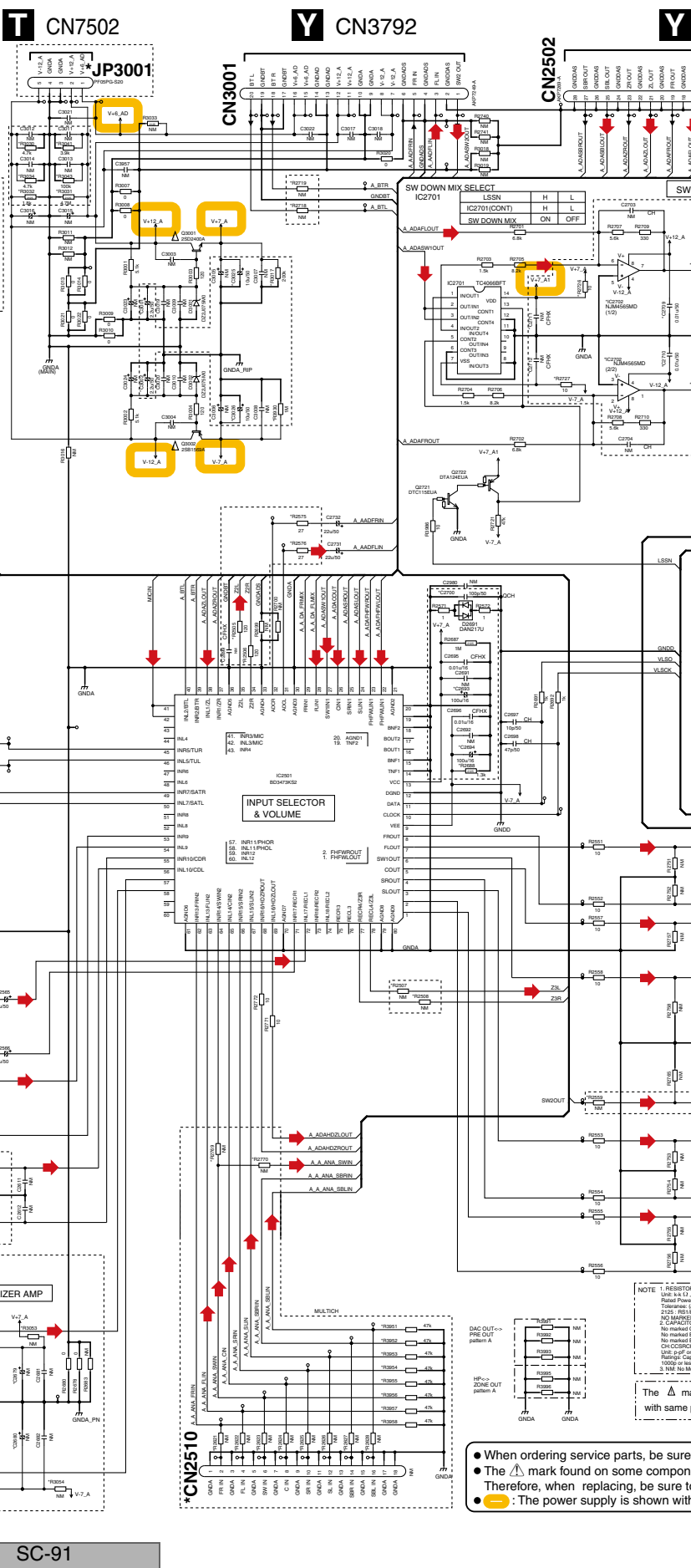
D



E



F



A1/2

90

SC-91

G
CN7010



A 2/2

TUNER
MODULE

A 1/2

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

➡: Audio Signal Route

SC-91

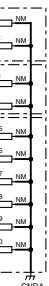
4

NOTE

1. RESISTORS
Unit: k=1k, M=M Ω or Ω unless otherwise noted.
Rated Power: 1/10w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2195: RS1/8S0
NO MARKED: RS1/10SR

2. CAPACITORS
No marked Ceramic Capacitors are CCKSRBY.
No marked Electrolytic Capacitors are CEAT(VSX and VSA series)
No marked Electrolytic Capacitors are CEAK(SC series)
CH10CH CHPK CHKSO unless otherwise noted.
Unit: p=pF or u=uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
100000: CCKS04H Over 1000v: CCKSRBY

*N.M. No Mount



PRESEL	SEL-L	SEL-H/MID
H	FHL/FHR	FWL/FWR
L	SBL/SBR	FHL/FHR

A2/2 AUDIO ASSY (2/2) (AWX2075)

A

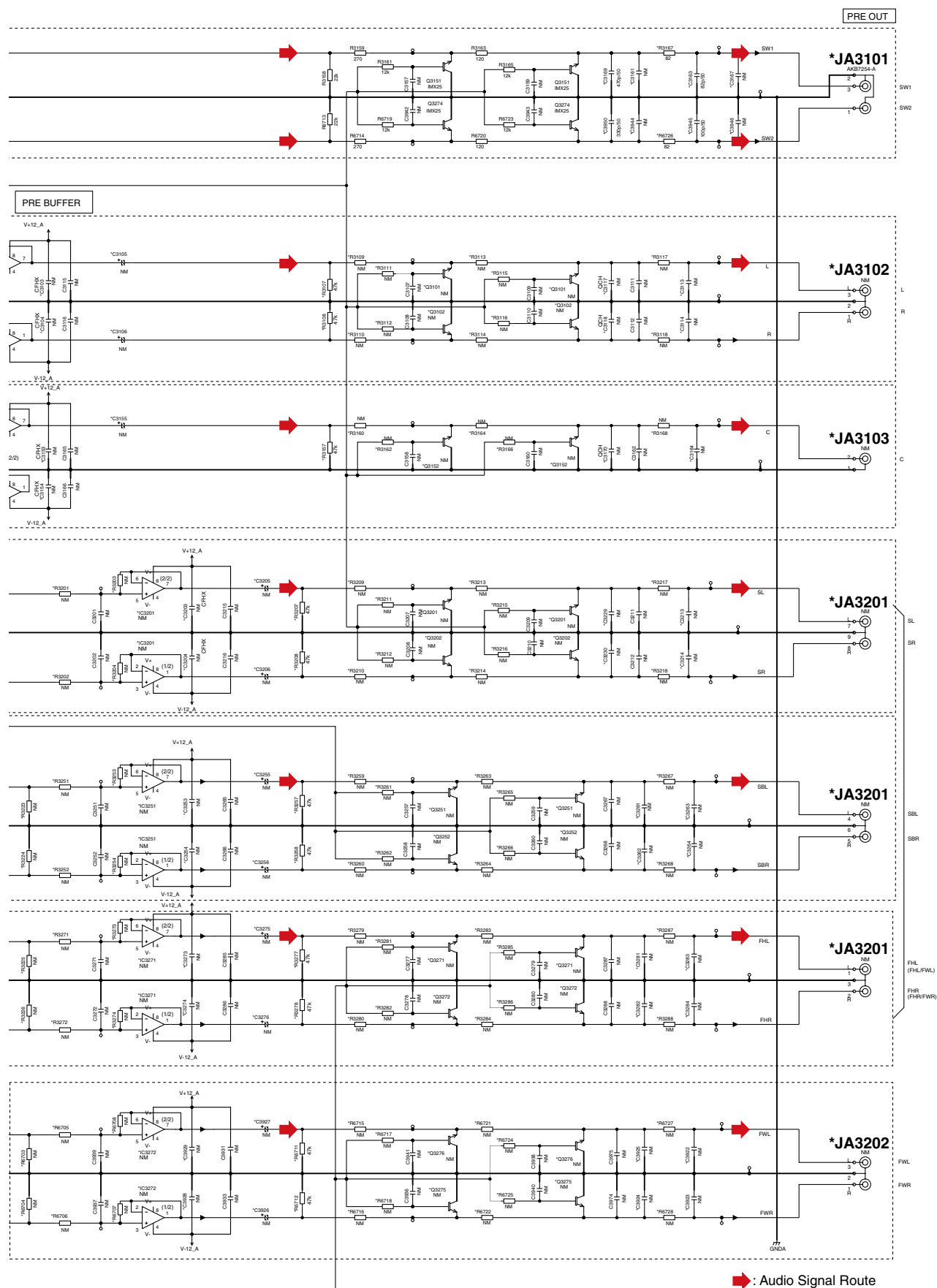
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C

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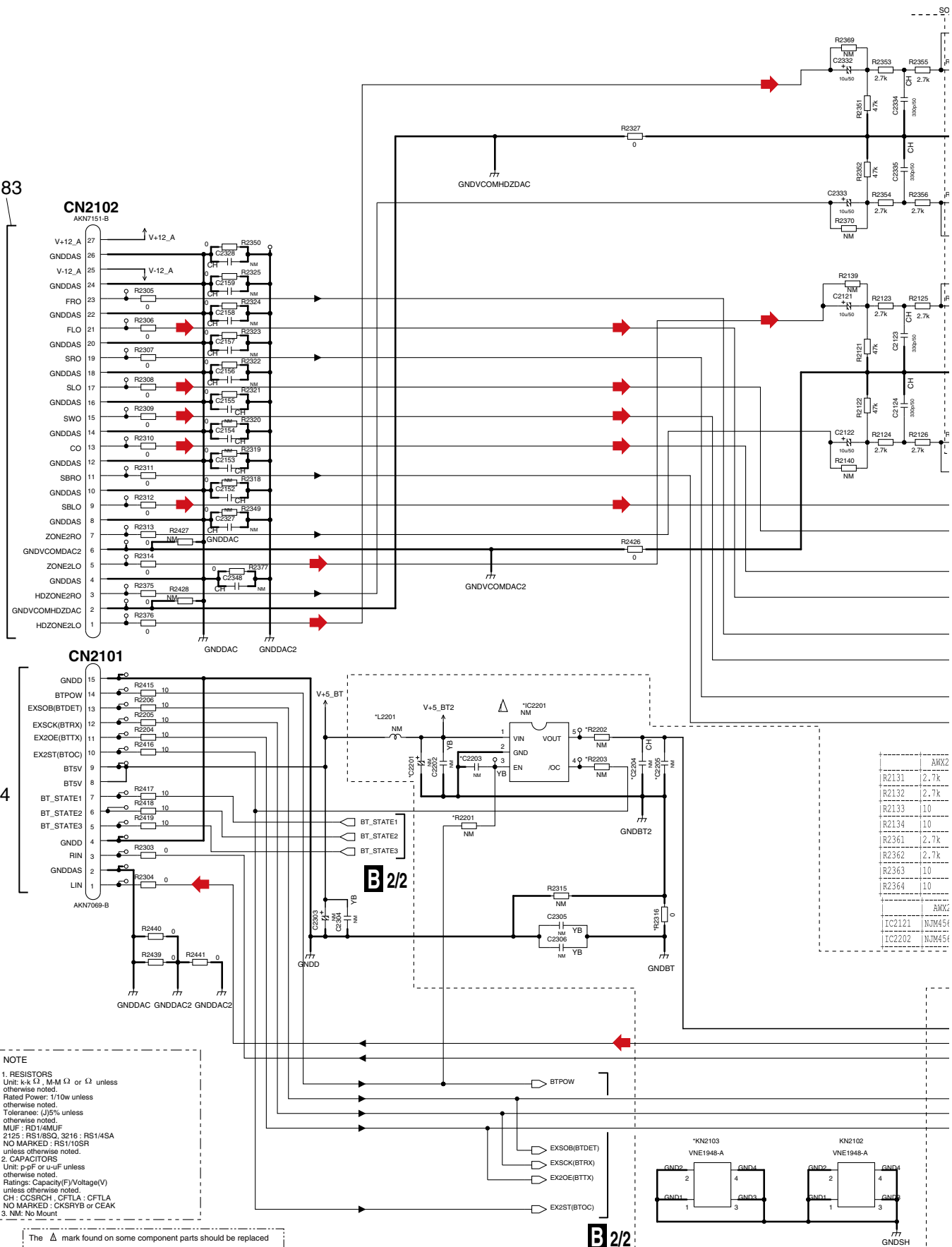
4

F

AA
CN7184

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

B 2/2



Y
CN3793



95

4



10.5 FRONT HDMI USB ASSY

A

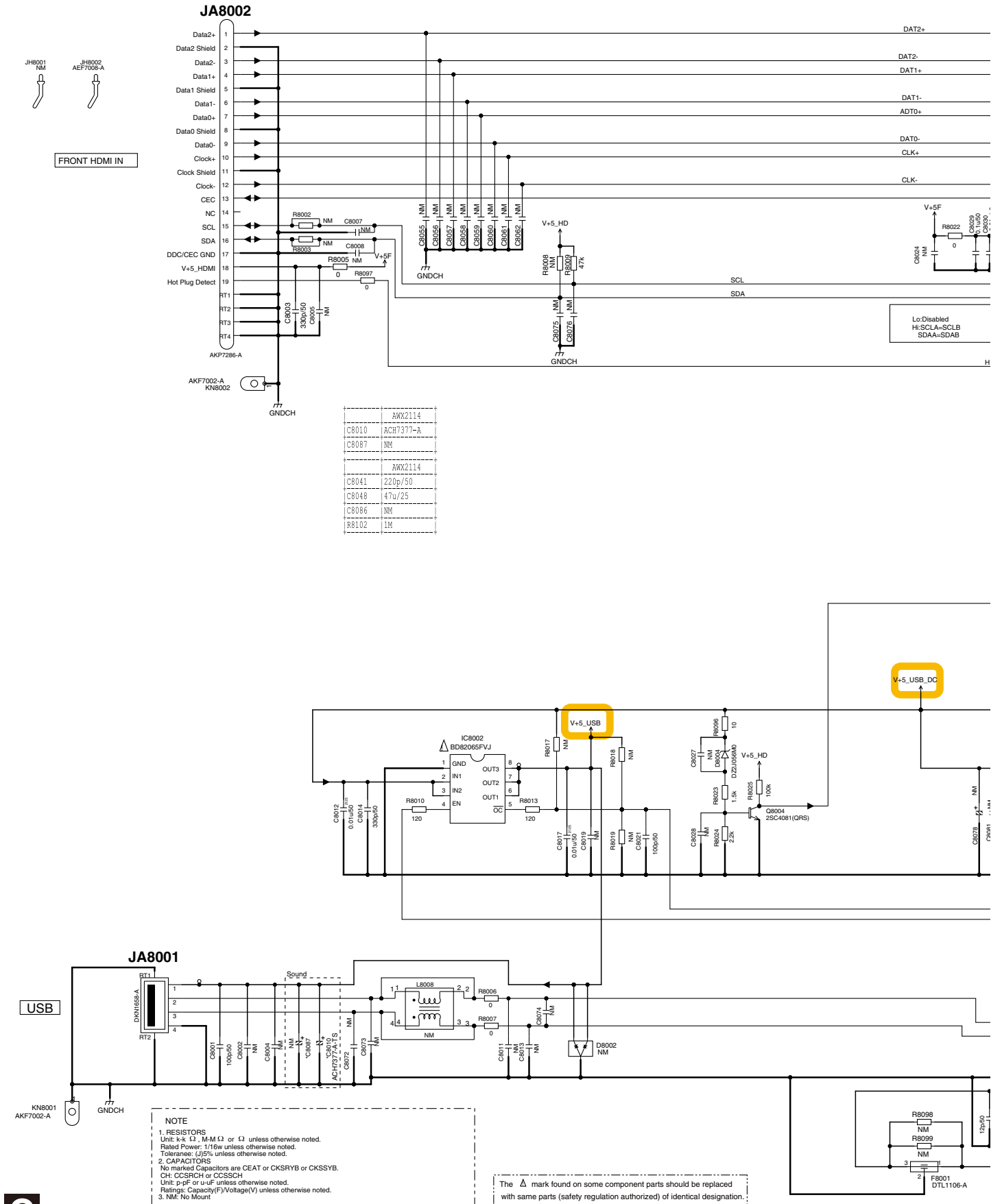
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A



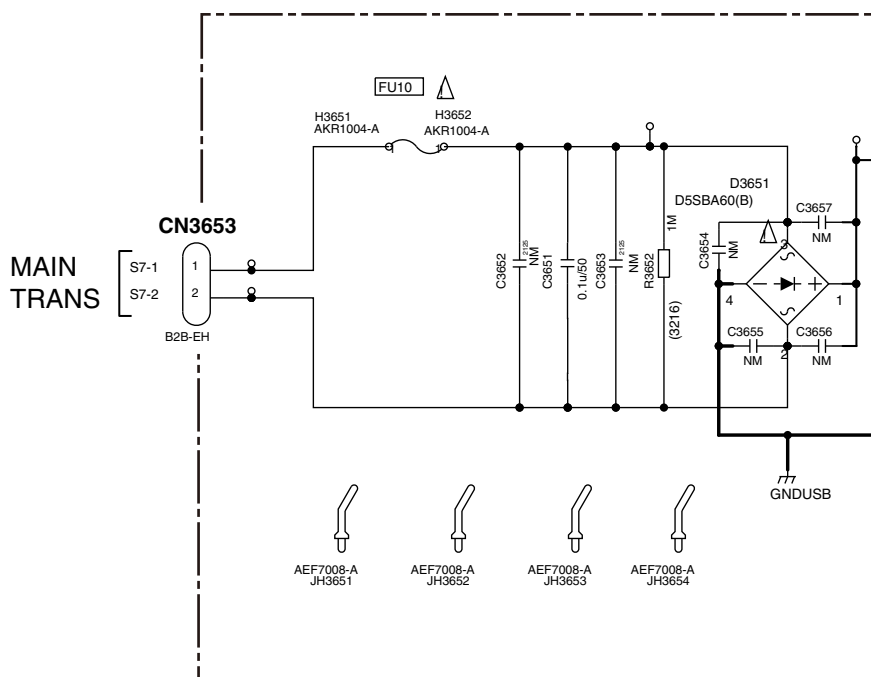
C

D

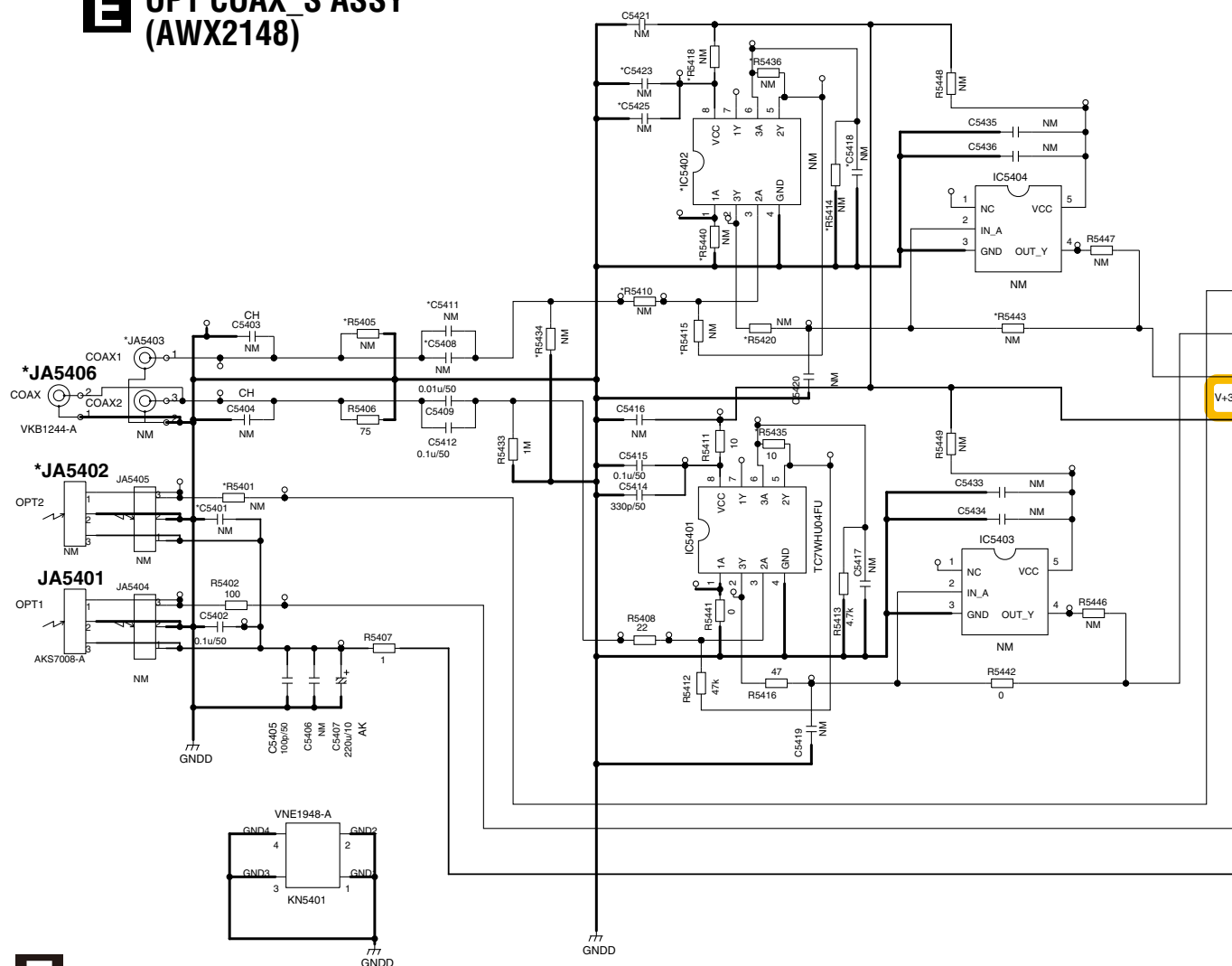
E

F

**D USB RECT_S ASSY
(AWX2177)**



**E OPT COAX_S ASSY
(AWX2148)**





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

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

3. NM : NO MOUNT

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



	AWX2148
C5401	NM
C5408	NM
C5411	NM
C5418	NM
C5423	NM
C5425	NM
R5401	NM
R5405	NM
R5410	NM
R5414	NM
R5415	NM
R5418	NM
R5420	NM
R5429	NM
R5430	NM
R5434	NM
R5435	1.0
R5436	NM
R5440	NM
R5443	NM
IC5402	NM
JAS403	NM
JAS403	NM
JAS406	VKB1244-A

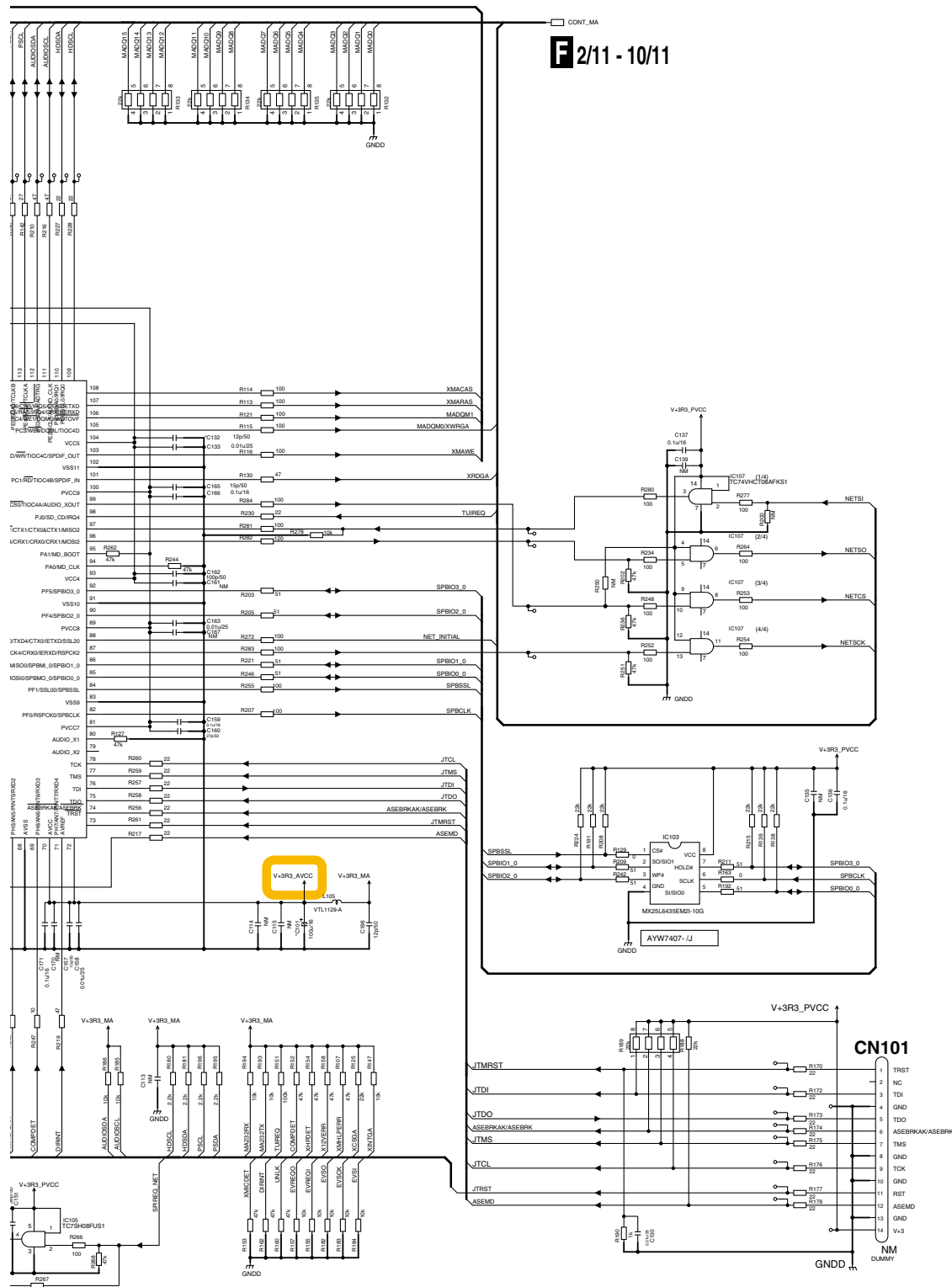
1.RESISTORS
Unit :k- Ω , M-M Ω or Ω unless otherwise noted.
Rated power :1/10W unless otherwise noted.
Tolerance : $\% \pm 5\%$ unless otherwise noted.

2.CAPACITORS
Unit :p-pF or μ -F or F unless otherwise noted.
Ratings :Capacity (μ -F)/Voltage(V) unless otherwise noted.
YB :CKSR YB CK :CCSRCK CK :CCSRCK AT :CEAT JQ :CEJQ

3.NEED NO count

△





F2/11 - 10/11

EJTAG

SC-91

10.8 DIGITAL MAIN_L ASSY (2/11)

F 1/11, 3/11 - 10/11

F 3/11 - 9/11, 11/11

F 10/11

F 6/11

F 6/11

F 2/11

F 2/11

F 2/11

F 2/11

F 2/11

F 2/11

F 2/11

F 2/11

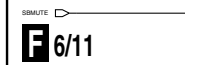
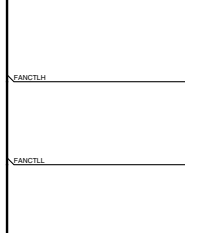
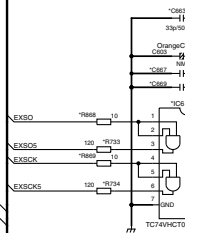
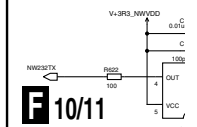
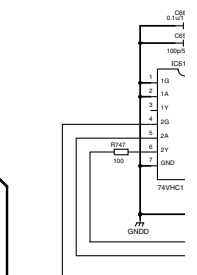
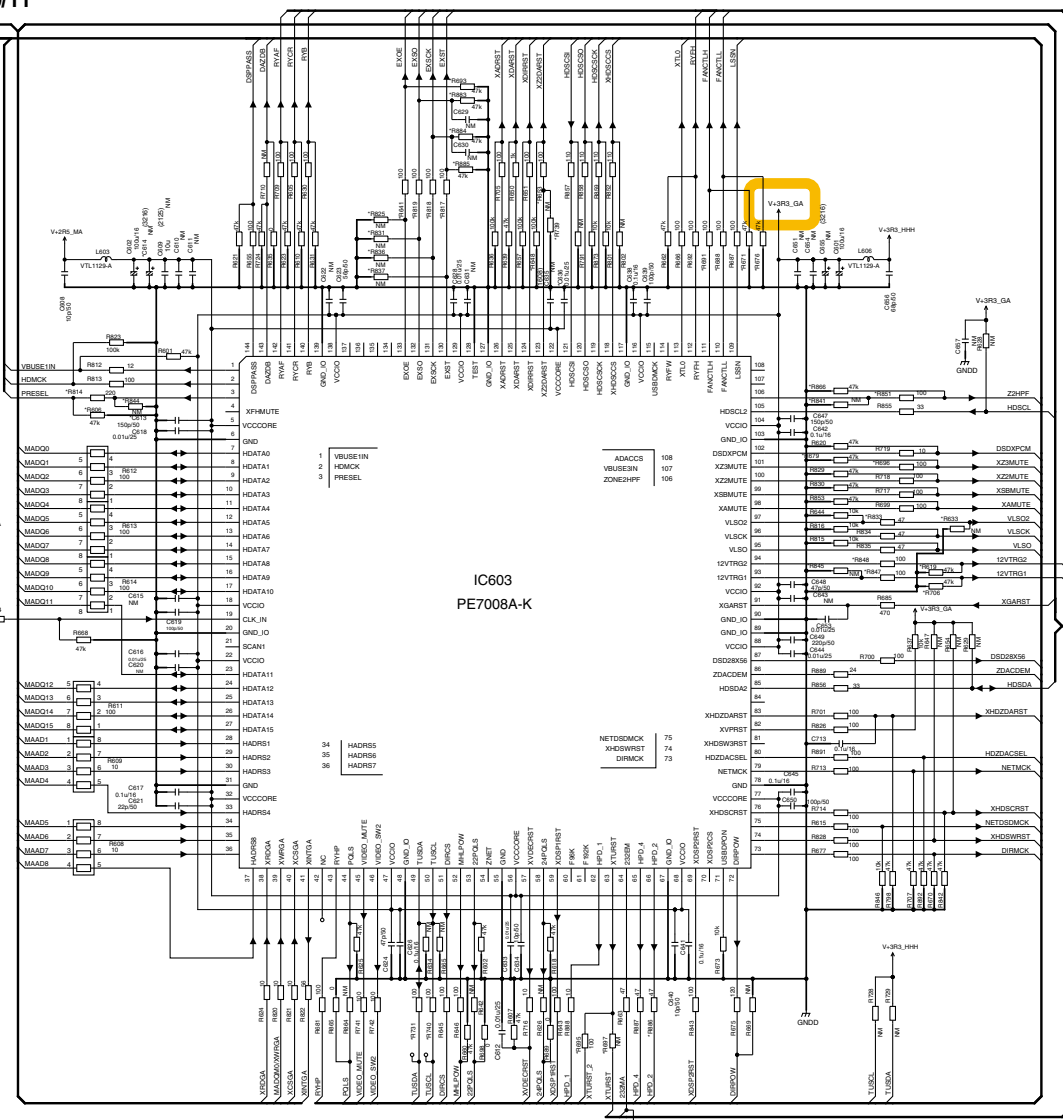
F 2/11

F 2/11

F 2/11

F 2/11

F 2/11



A



C

□

E

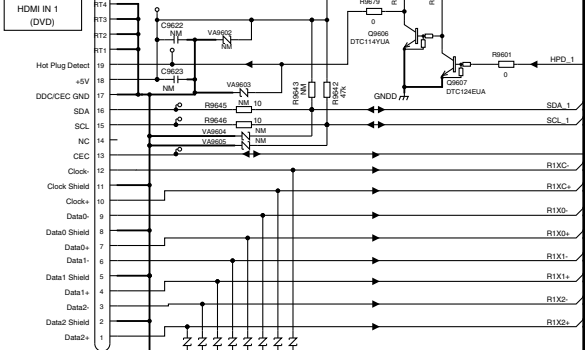
F

10.9 DIGITAL MAIN_L ASSY (3/11)

A
B
C
D
E
F

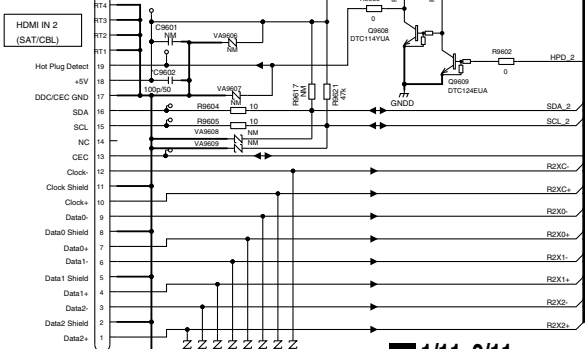
JA9601

AKP7286-A



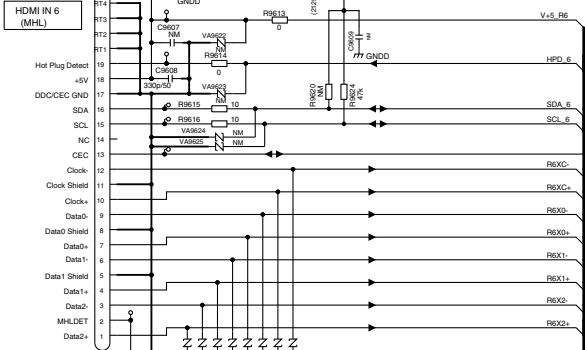
JA9602

AKP7286-A



JA9606

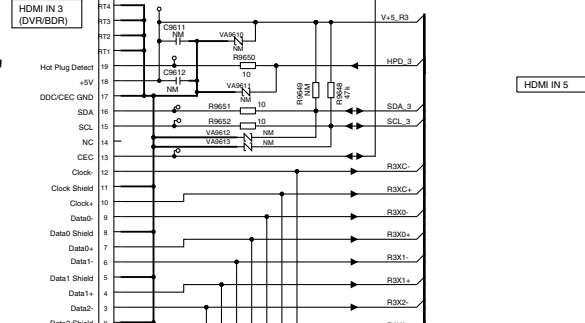
AKP7286-A



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

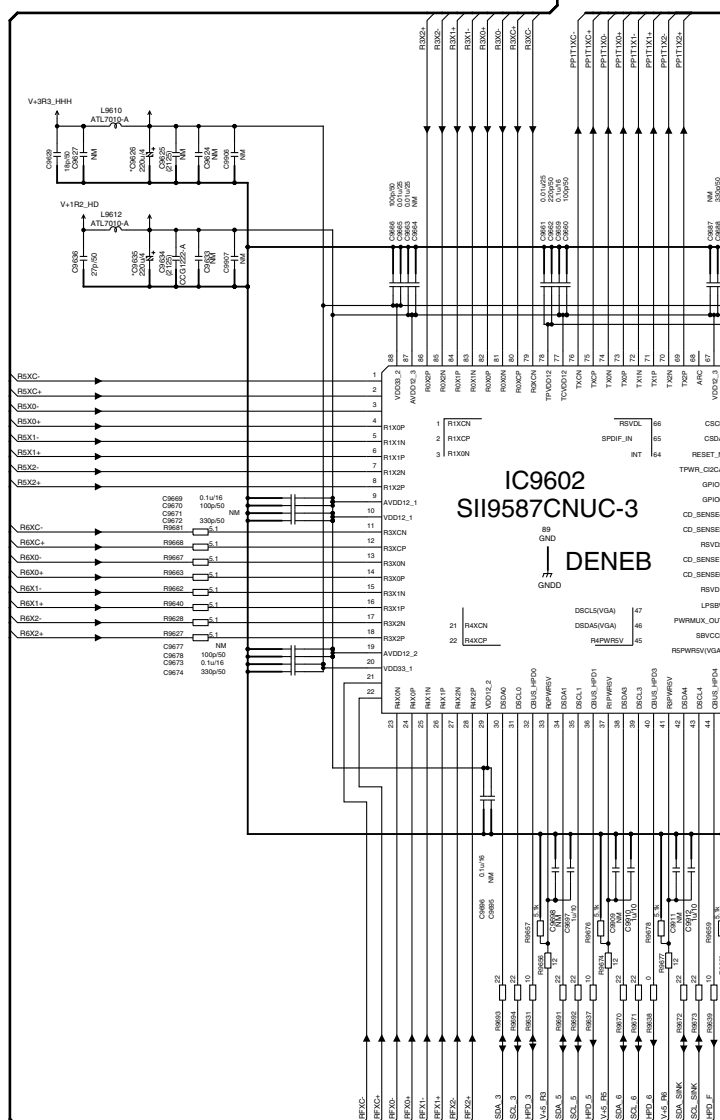
JA9603

AKP7286-A



CONT_GA
E 2/11, 4/11 - 9/11, 11/11

E 1/11, 2/11, 4/11 - 10/11
CONT_MA



F3/11 DIGITAL MAIN_L ASSY (3/11) (AWX2021)

A

B

C

D

E

F

C JA8003

F2/11, 4/11 - 9/11,
11/11

HDMI IN 5

JA9620

AKP728-A

JA9604

AKP728-A

HDMI BD IN

T14

T13

T12

Hot Plug Detect

+5V

DDC/CEC GND

SDA

SCL

NC

CEC

Clock

Clock Shield

Clock+

Data0

Data0 Shield

Data1

Data1 Shield

Data1+

Data2

Data2 Shield

Data2+

1

2

3

4

5

6

7

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318

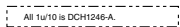
319

320

32

△

F



A



C

F 5/11

D

F

F

- (CVBS) → Video Signal Route
- (CB) → Video Signal Route
- (CR) → Video Signal Route
- (Y) → Video Signal Route

A



F

10.12 DIGITAL MAIN_L ASSY (6/11)

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

A

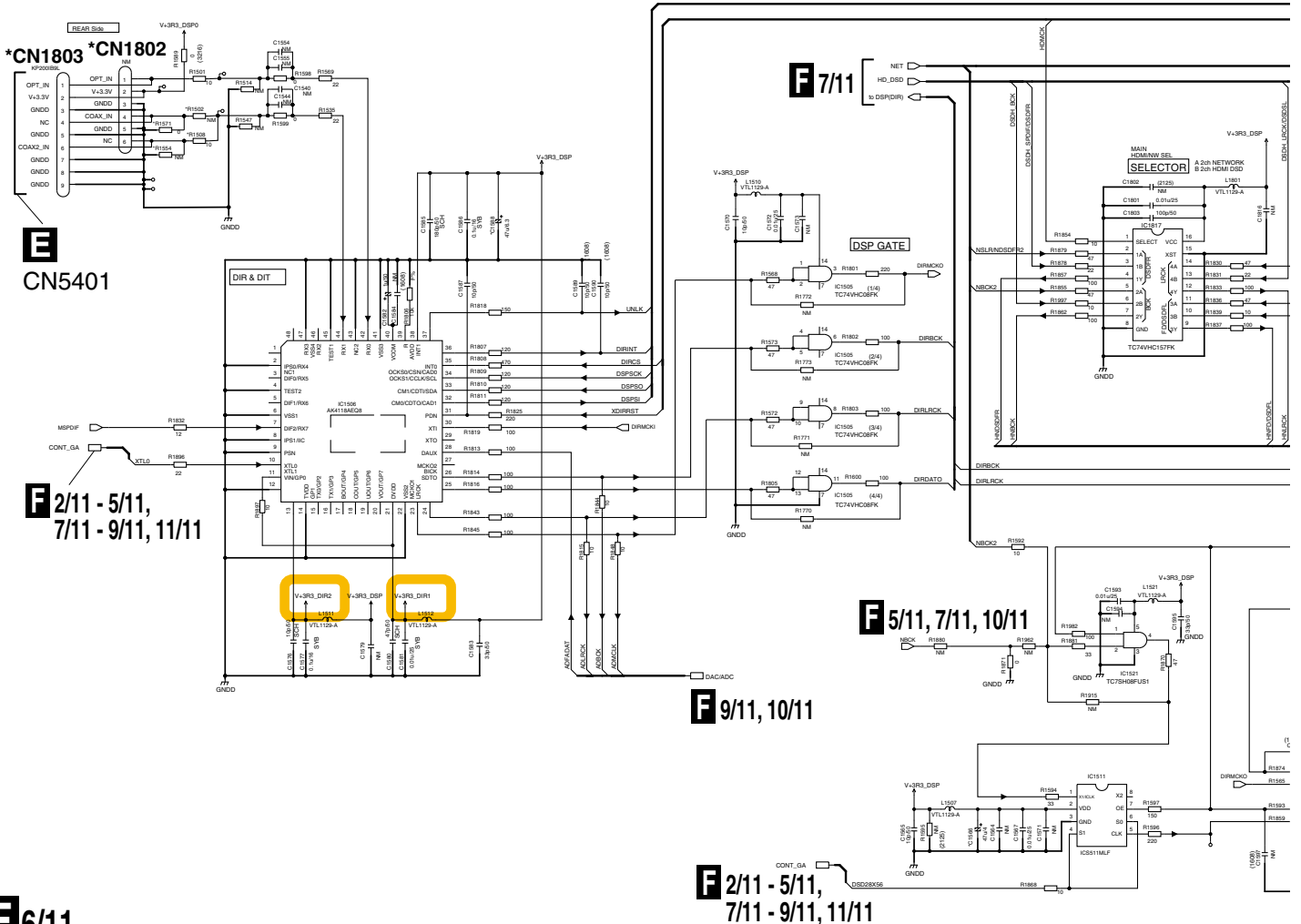
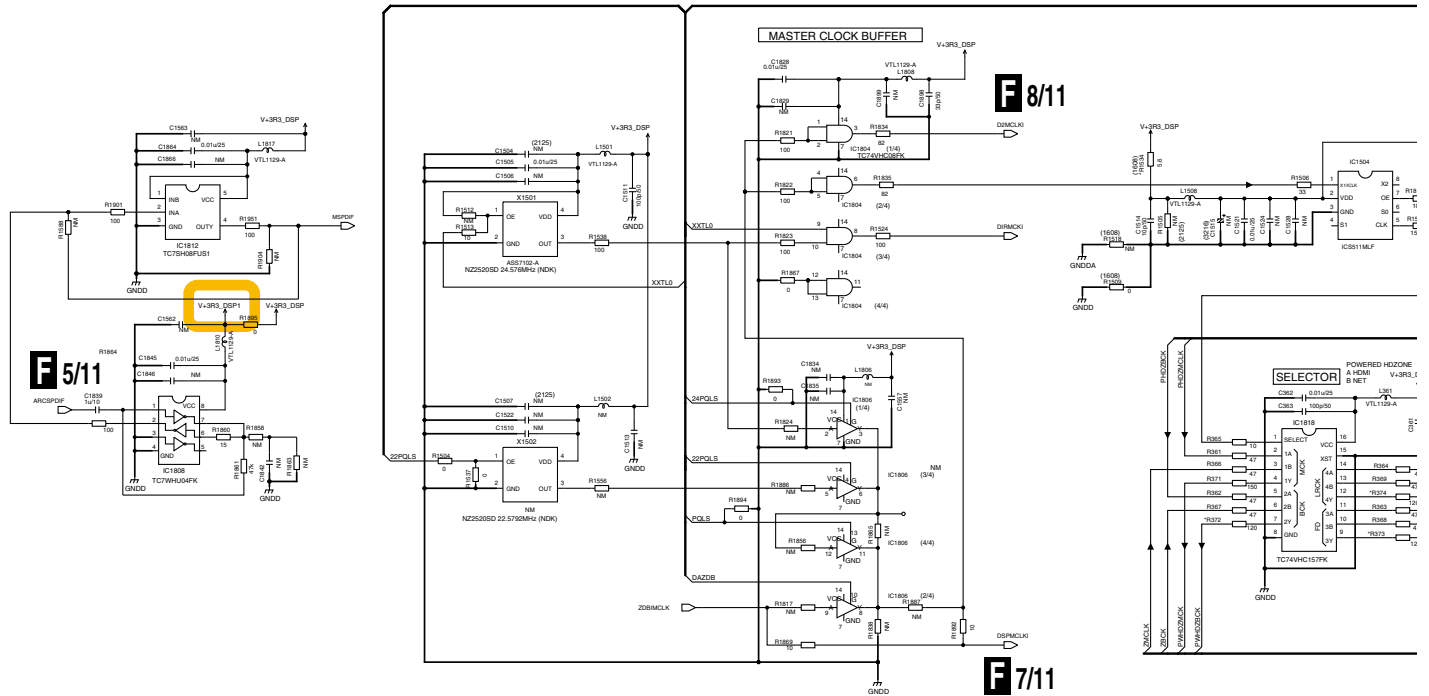
B

C

D

E

F



F6/11

113

1



F

△



F8/11 DIGITAL MAIN_L ASSY (8/11) (AWX2021)

A

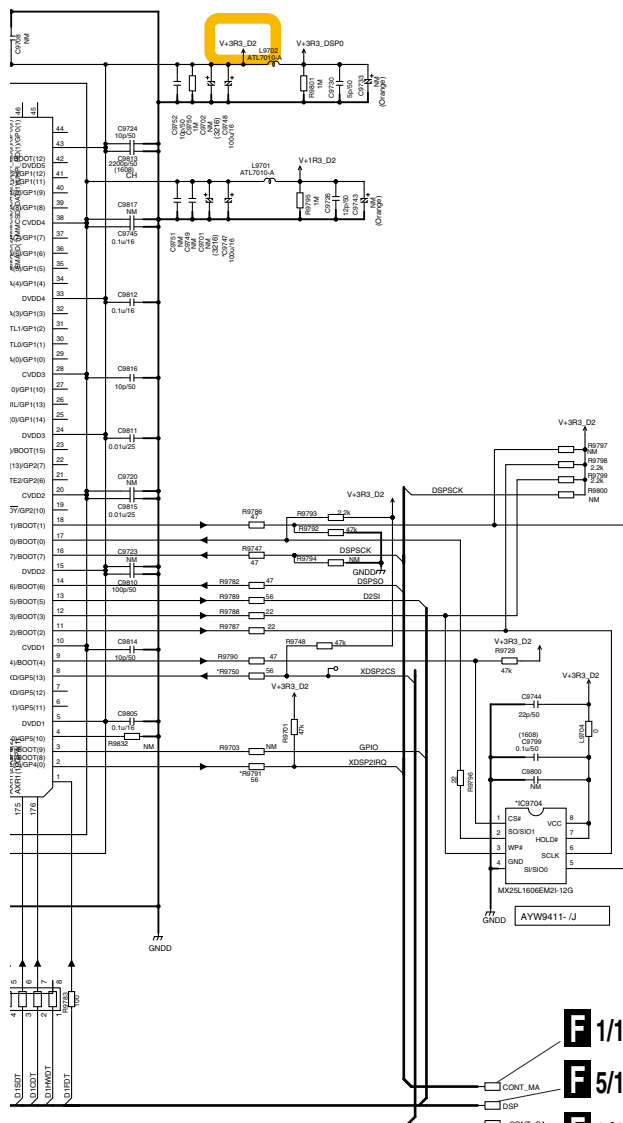
B

C

D

E

F



F 1/11 - 7/11, 9/11, 11/11

F 5/11 - 7/11

F 2/11 - 7/11, 9/11, 11/11

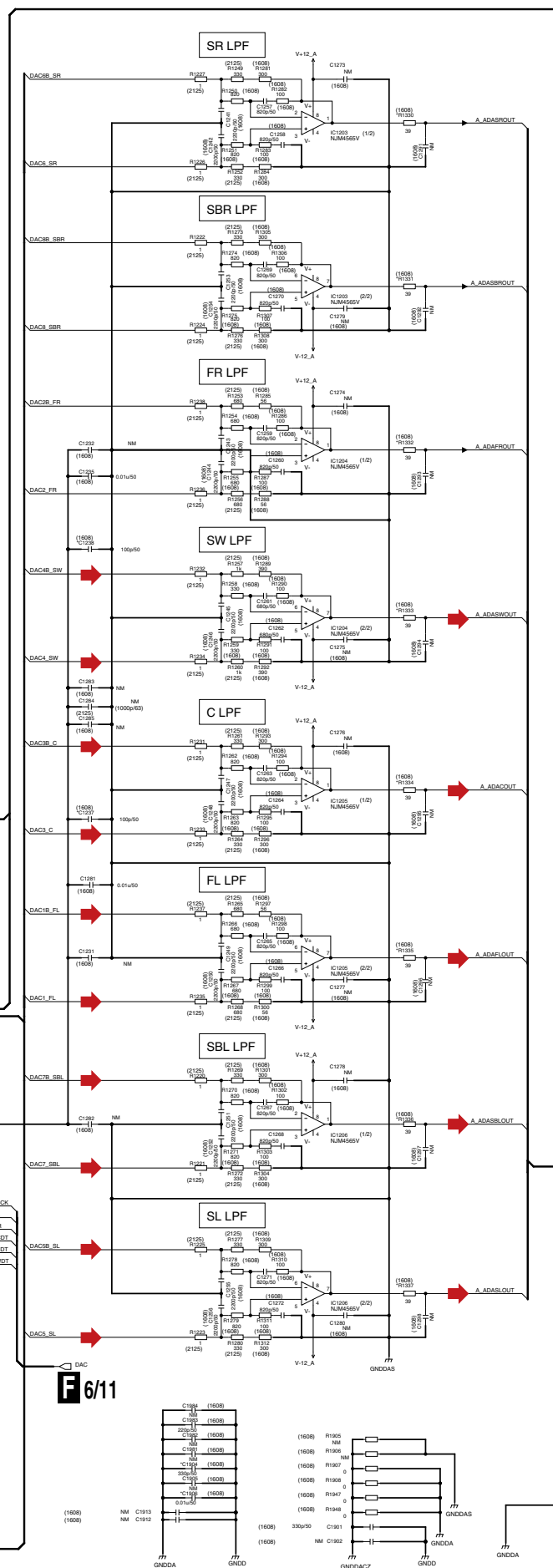
SC-91

F8/11

117

4

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



F9/11 DIGITAL MAIN_L ASSY (9/11) (AWX2021)

F 2/11 - 8/11, 11/11

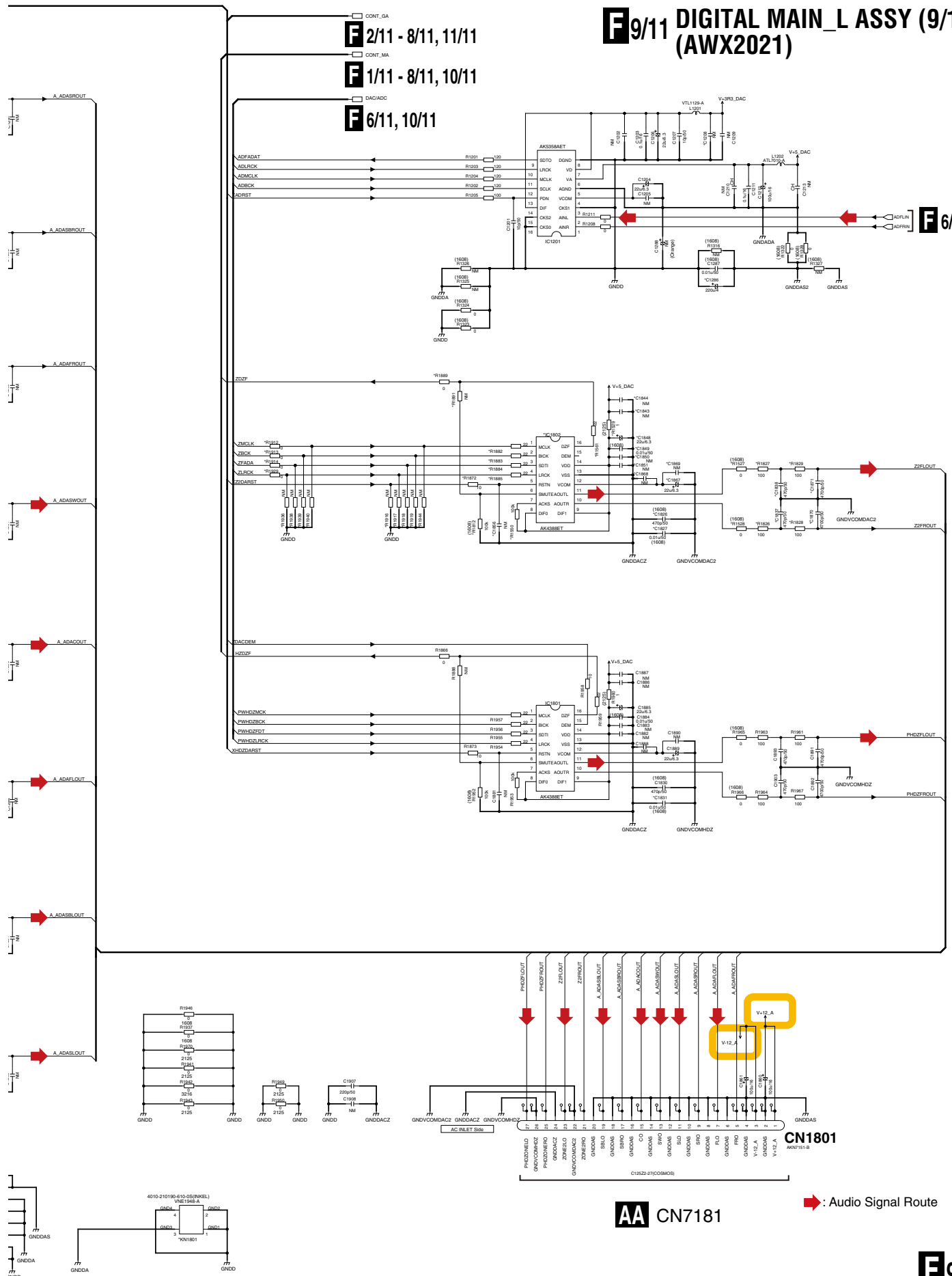
F 1/11 - 8/11, 10/11

F 6/11, 10/11

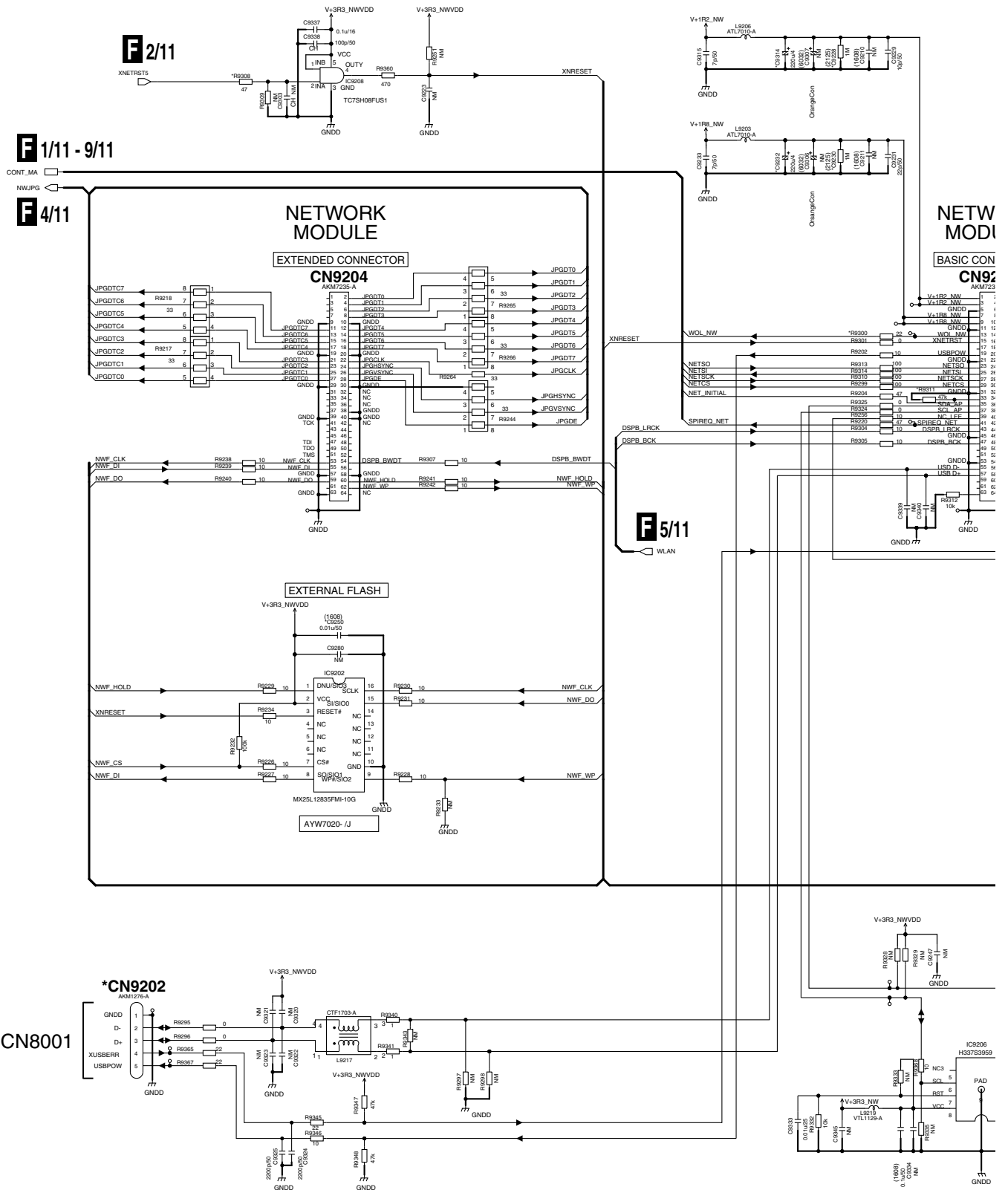
F 6/11

AA CN7181

: Audio Signal Route

F9/11


10.16 DIGITAL MAIN_L ASSY (10/11)

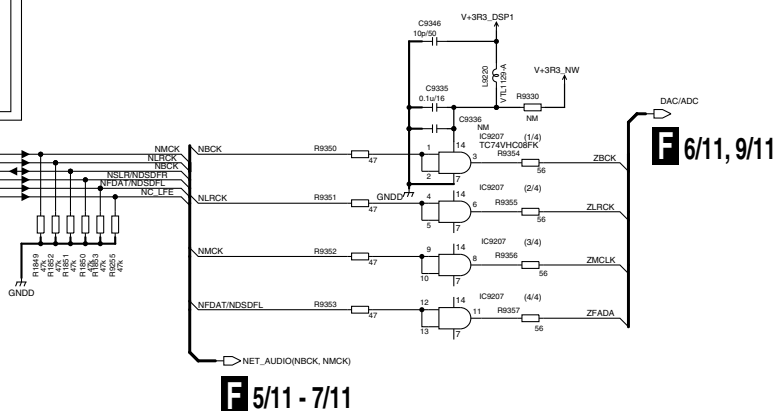


F 10/11

A

F 2/11

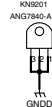
E



9



□



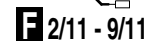
F

F

4



A



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



1 ■ 2 ■ 3 ■ 4 ■



A

12V TRG 2 or 0		HWX2138
C7007	0.1u/50	
C7013	0.01u/50	
C7015	0.01u/50	
C7016	0.01u/50	
C7112	220u/16	
C7113	330p/50	
R7003	10k	
R7005	10k	
R7006	4.7k	
R7007	4.7k	
R7008	4.7k	
R7010	4.7k	
R7011	12	
R7012	12	
R7013	12	
R7014	12	
R7111	1M	
L7001	ATL7002-A	
JA7003	AMN-209-A	
Q7001	2SC1248DA	
Q7002	2DC1248DA	
Q7003	2DC1248DA	
Q7005	2SA1176N (QR)	
Q7006	2SA1136K (QR)	
Q7010	2SA1136K (QR)	

2
281

6
001



D

F

F

4

A



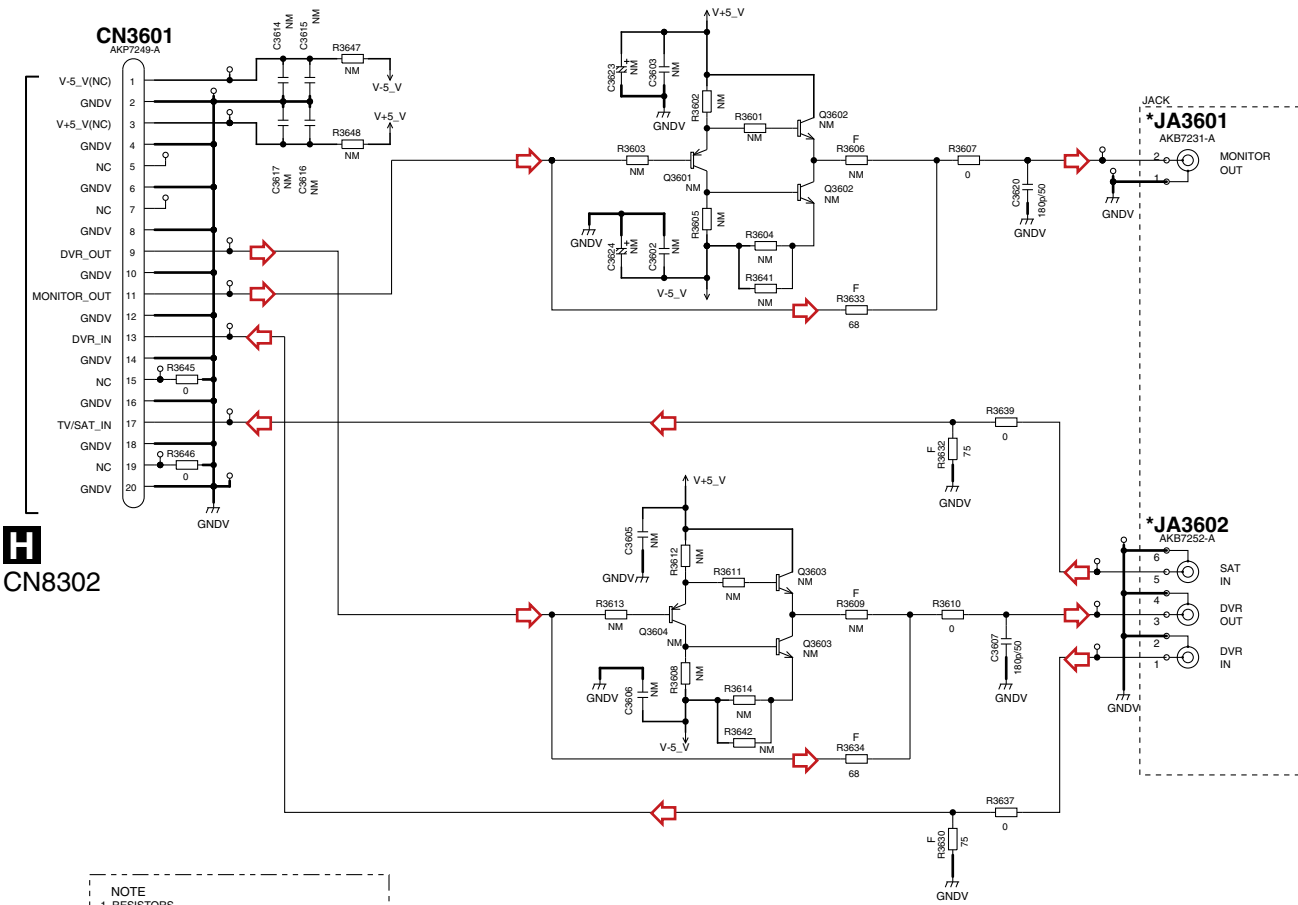
The mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

F

10.20 COMPOSITE ASSY

COMPOSITE ASSY
(AWX2084)

	AWX2084
JA3601	AKB7231-A
JA3602	AKB7252-A



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.

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

Video Signal Route

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B

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C

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F

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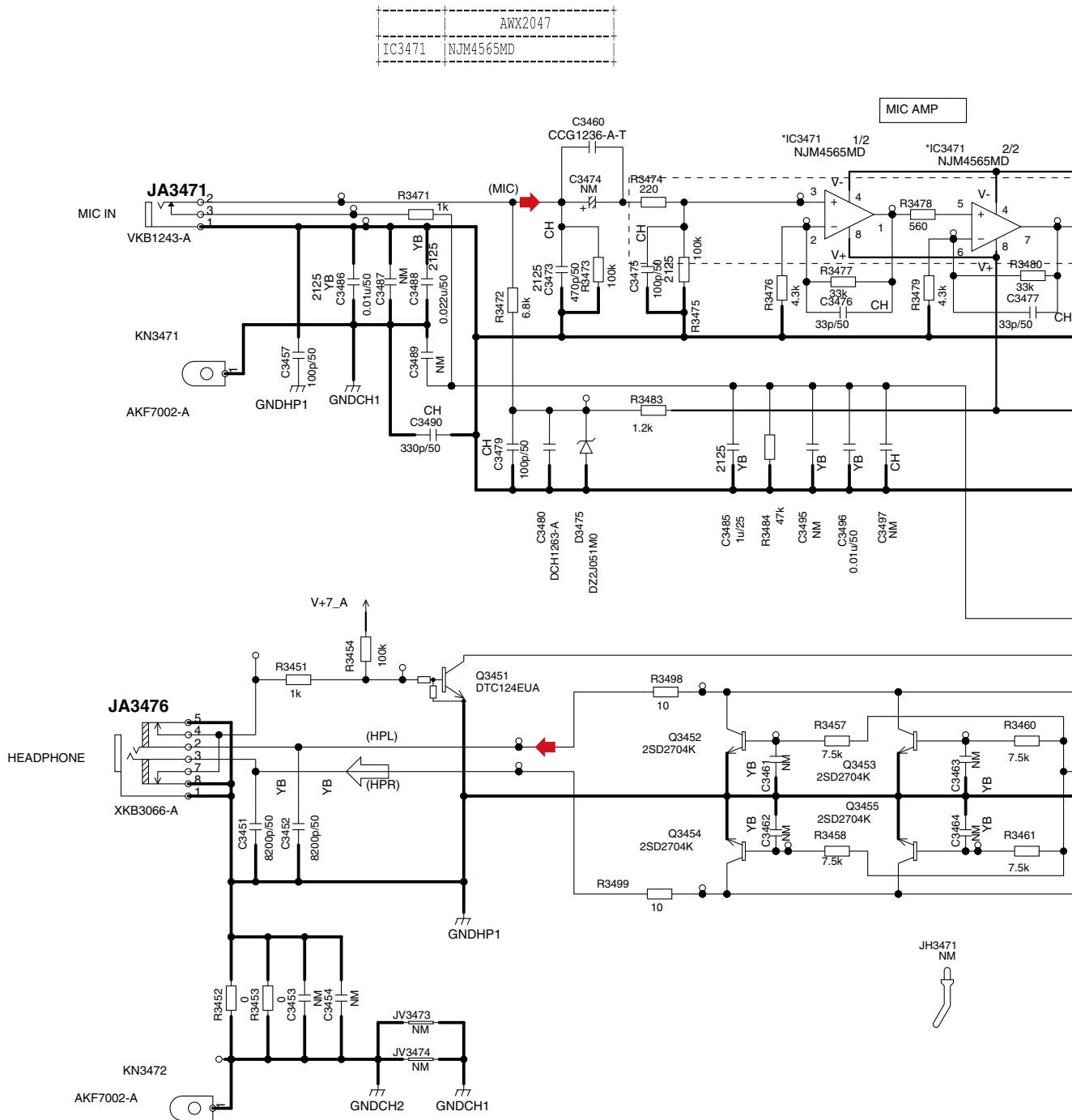
■

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■

SC-91

10.21 MIC HP ASSY



A



C

D

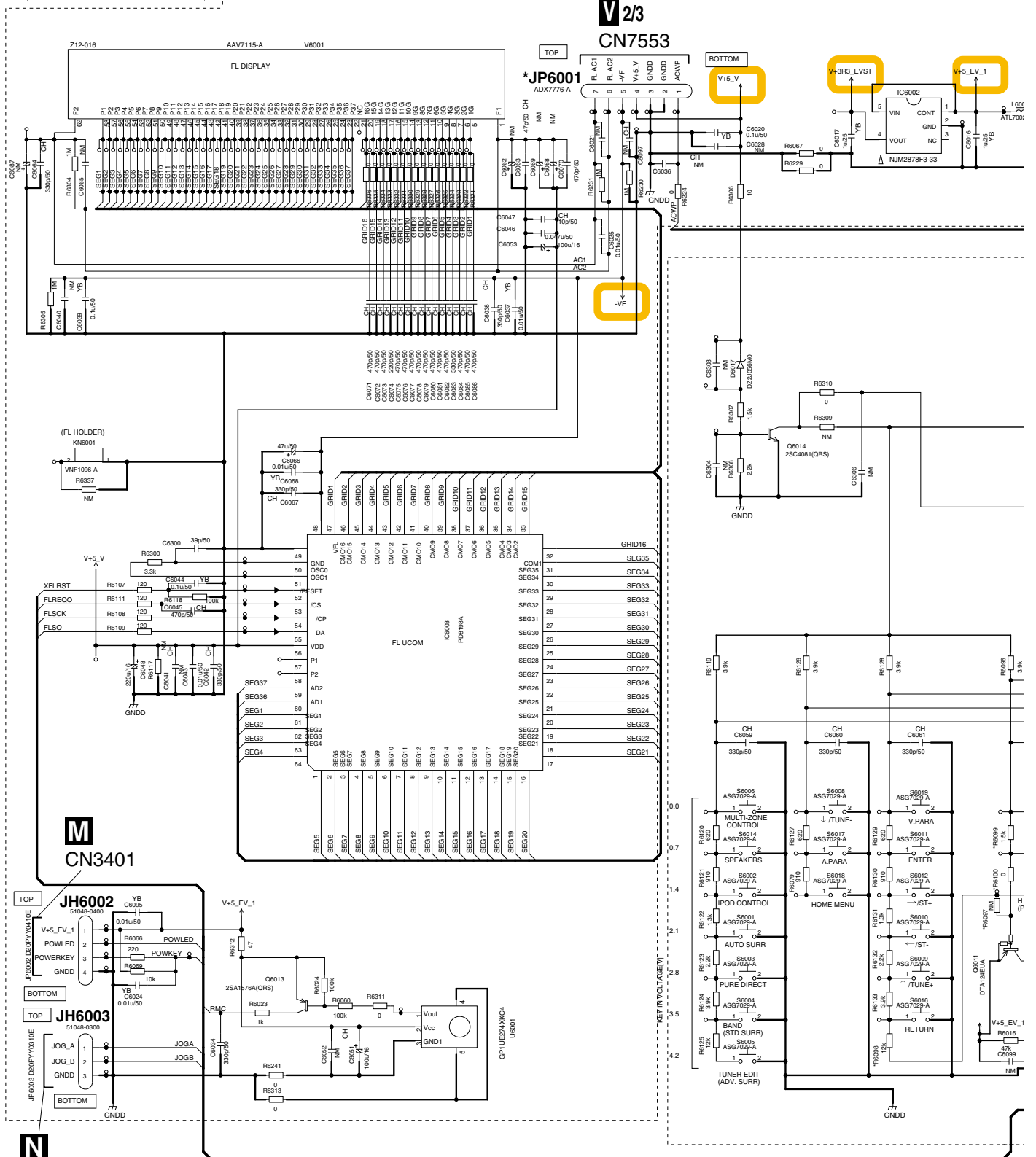
E

F

2.CAPACITORS
Unit: p-pF, or μ F unless otherwise noted.
Ratings: Capacity(μ F)/Voltage(V) unless otherwise noted.

10.22 DISPLAY ASSY

		AWX2025		AWX2025
R6021	33k		JP6001	ADX7776-A
R6022	22k			
R6097	NM			
R6098	12k			
R6099	1.5k			
R6100	0			
R6221	NM			



A

E

C

D

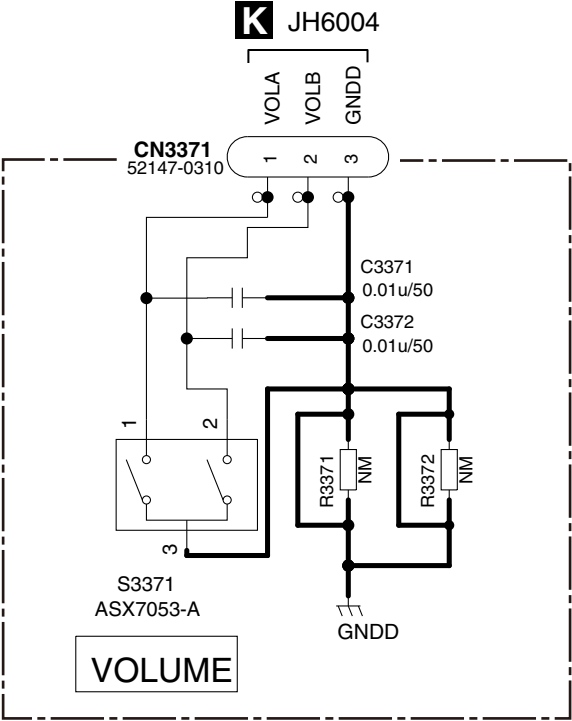
E

F



K

L VOL ASSY
(AWX2029)



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.

3. NM: No Mount

M

POWER SW ASSY
(AWX2030)

NOTE

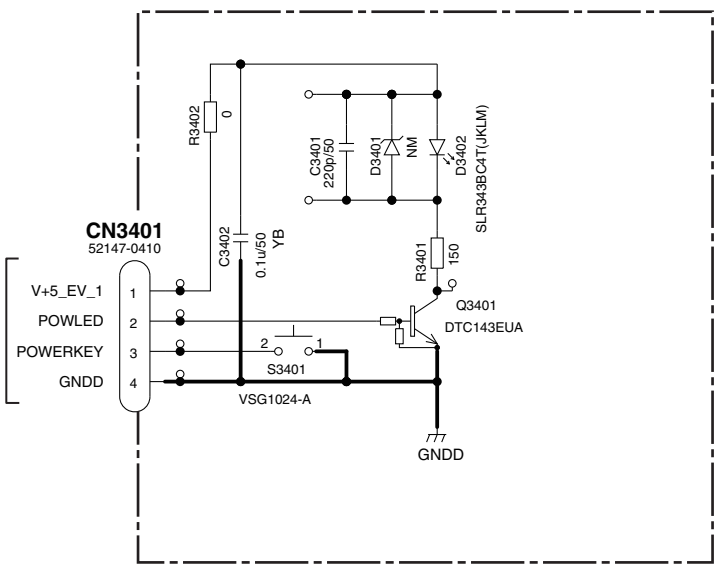
1.RESISTORS
Unit :k-kΩ , M-M Ω or Ω unless otherwise noted.
Rated:power :1/10W unless otherwise noted.
Tolerance :(J) ± 5% unless otherwise noted.

2.CAPACITORS
Unit :p-pF or μ F or unless otherwise noted.
Ratings :Capacity(F)/Voltage(V) unless otherwise noted.
YB :CKSRYB CH :CCSRCH

3, NM :No mount

K

JH6002



N

ENCODER ASSY
(AWX2051)

K

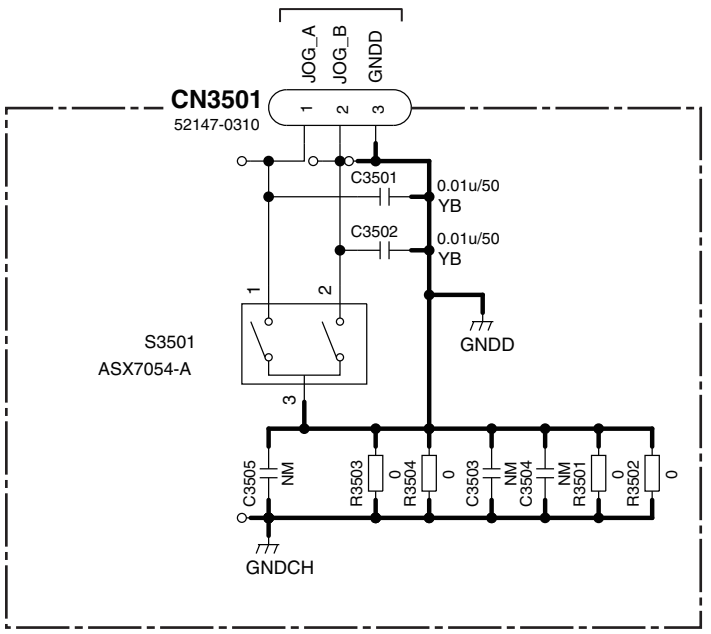
JH6003

NOTE

1.RESISTORS
Unit :k-kΩ , M-M Ω or Ω unless otherwise noted.
Rated:power :1/10W unless otherwise noted.
Tolerance :(J) ± 5% unless otherwise noted.

2.CAPACITORS
Unit :p-pF or μ F or unless otherwise noted.
Ratings :Capacity(μ F)/Voltage(V) unless otherwise noted.
YB :CKSRYB

3,NM :No mount



10.25 IR BUFFER_S ASSY (1/2)

A

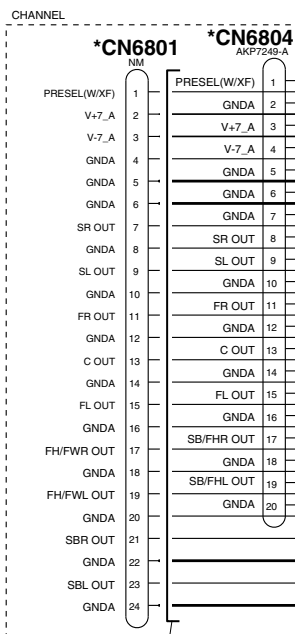
B

C

D

E

F



AB CN6953

0 2/2

SBL

SBR

SL

SR

PRESEL7
H-FW
L-FH

IC7491
TC4053BFT

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

NOTE

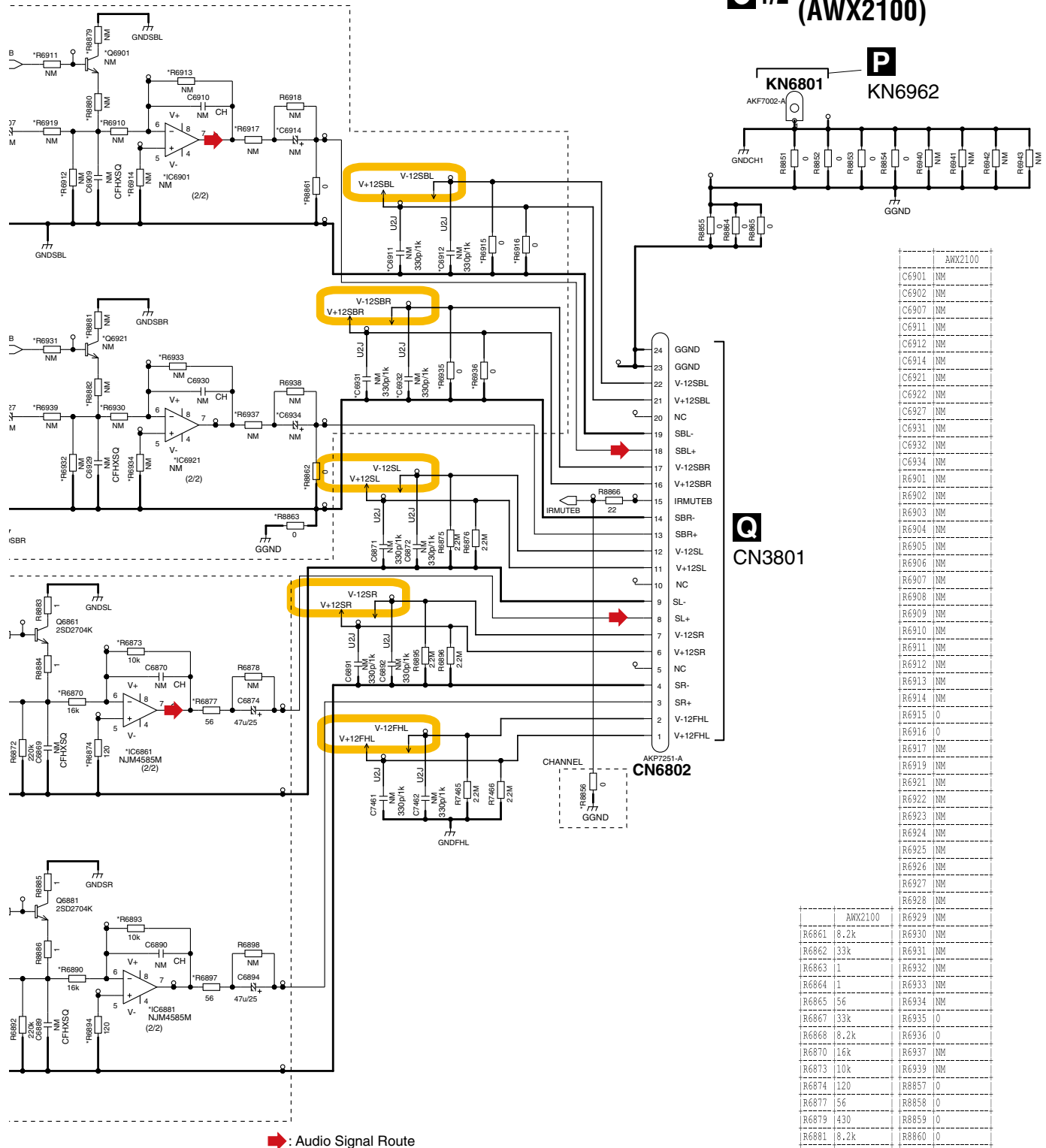
- RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated Power: 1/16W unless otherwise noted.
Tolerance: J5% unless otherwise noted.
- CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F) Voltage(V) unless otherwise noted.
YB: CKSR/B, CH: CCSRCH
- NM: No Mount

SC-91

0 1/2

136

Q1/2 IR BUFFER_S ASSY (1/2) (AWX2100)



AWX2100
CN6801 NM
CN6804 AKP7249-A
AWX2100
R6856 0

AWX2100	R6929 NM
R6861 8.2k	R6930 NM
R6862 33k	R6931 NM
R6863 1	R6932 NM
R6864 1	R6933 NM
R6865 56	R6934 NM
R6866 33k	R6935 0
R6868 8.2k	R6936 0
R6870 16k	R6937 NM
R6873 10k	R6938 NM
R6874 120	R6939 NM
R6877 56	R6940 NM
R6879 430	R6941 NM
R6881 8.2k	R6942 NM
R6882 33k	R6943 NM
R6883 1	R6944 NM
R6884 1	R6945 NM
R6885 56	R6946 NM
R6887 33k	R6947 NM
R6888 8.2k	R6948 NM
R6890 16k	R6949 NM
R6893 10k	R6950 NM
R6894 120	R6951 NM
R6897 56	R6952 NM
R6899 430	R6953 NM
IC6861 NJM4585M	R6954 NM
IC6881 NJM4585M	R6955 NM

10.26 IR BUFFER_S ASSY (2/2)

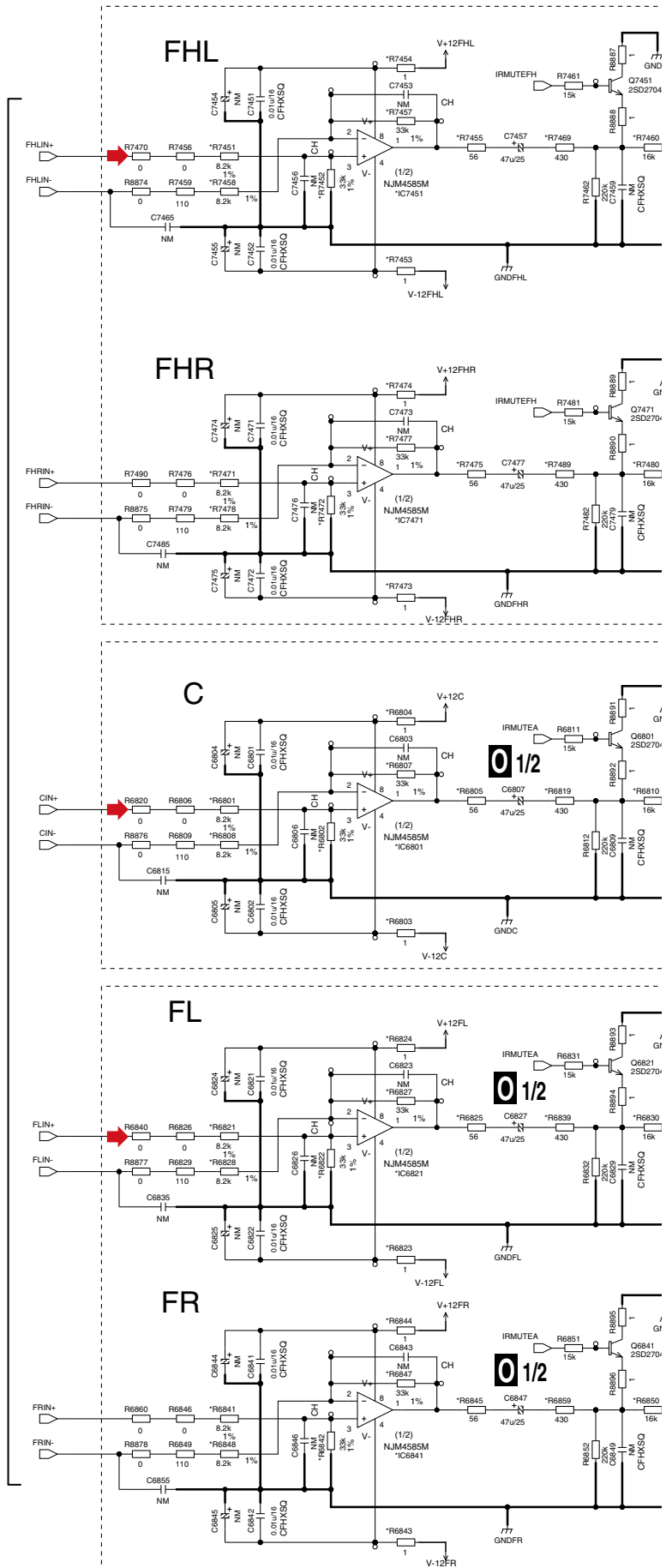
	AWX2100
R7451	8.2k
R7452	33k
R7453	1
R7454	1
R7455	56
R7457	33k
R7458	8.2k
R7460	16k
R7463	10k
R7464	120
R7467	56
R7469	430
R7471	8.2k
R7472	33k
R7473	1
R7474	1
R7475	56
R7477	33k
R7478	8.2k
R7480	16k
R7483	10k
R7484	120
R7487	56
R7489	430
IC7451	NJM4585M
IC7471	NJM4585M

	AWX2100
R6801	8.2k
R6802	33k
R6803	1
R6804	1
R6805	56
R6807	33k
R6808	8.2k
R6810	16k
R6813	10k
R6814	120
R6817	56
R6819	430
IC6801	NJM4585M

	AWX2100
R6821	8.2k
R6822	33k
R6823	1
R6824	1
R6825	56
R6827	33k
R6828	8.2k
R6830	16k
R6833	10k
R6834	120
R6837	56
R6839	430
R6841	8.2k
R6842	33k
R6843	1
R6844	1
R6845	56
R6847	33k
R6848	8.2k
R6850	16k
R6853	10k
R6854	120
R6857	56
R6859	430
IC6821	NJM4585M
IC6841	NJM4585M

	AWX2100
R6815	220k

0 1/2



0 1/2



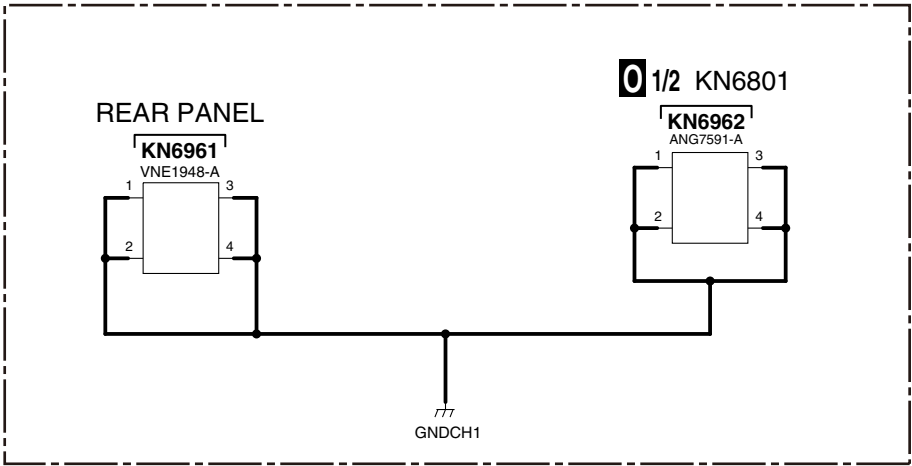
➡: Audio Signal Route

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

NOTE

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

P BUFFER GND ASSY
(AWX1789)



0 1/2 KN6802

0 2/2 KN6803

➔ Audio Signal Route

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

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

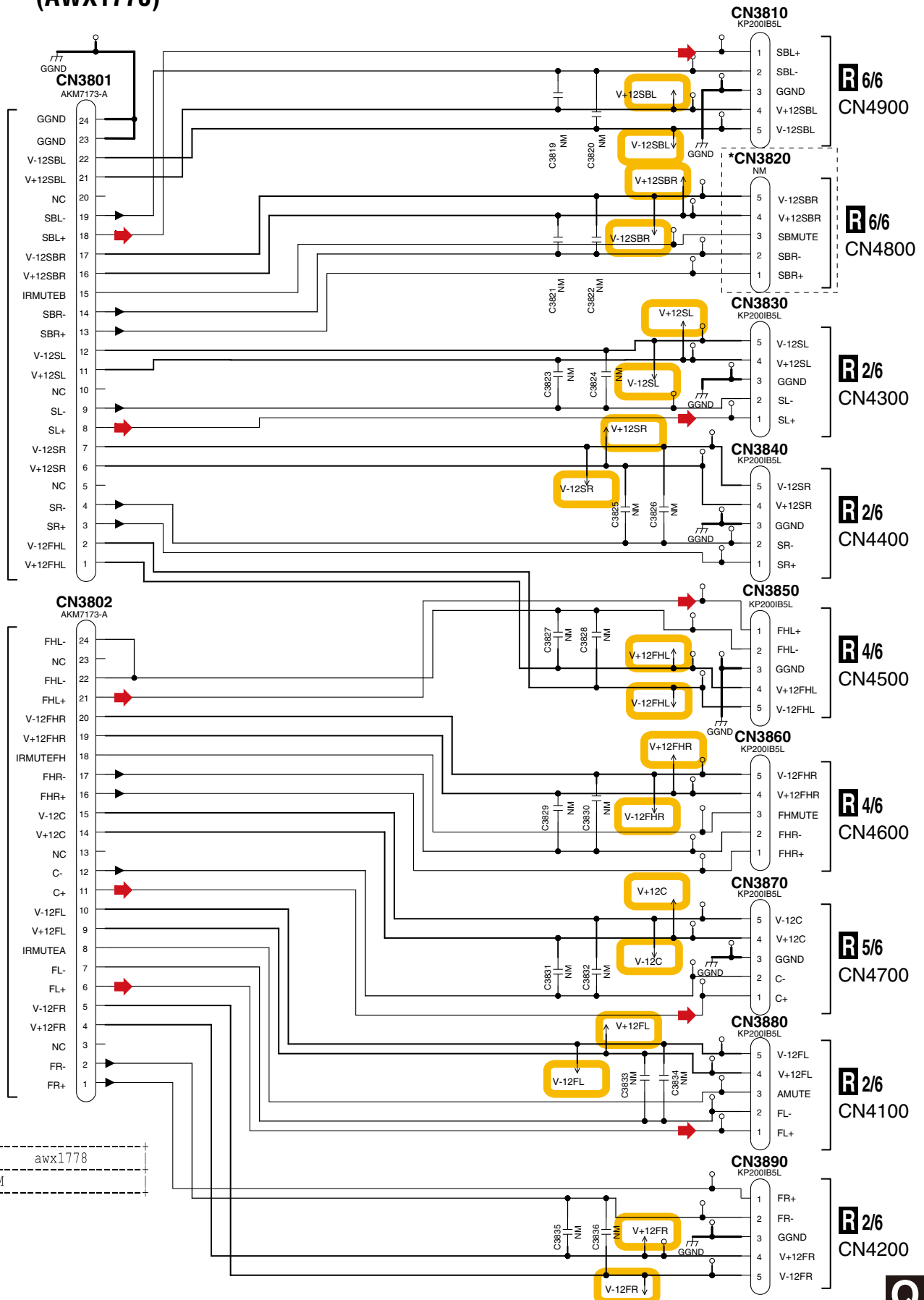
CN3820	NM
--------	----

Q IR INTERFACE_S ASSY (AWX1778)

Q 1/2
CN6802

Q 2/2
CN6803

awx1778	
CN3820	NM



SC-91

Q

141

△





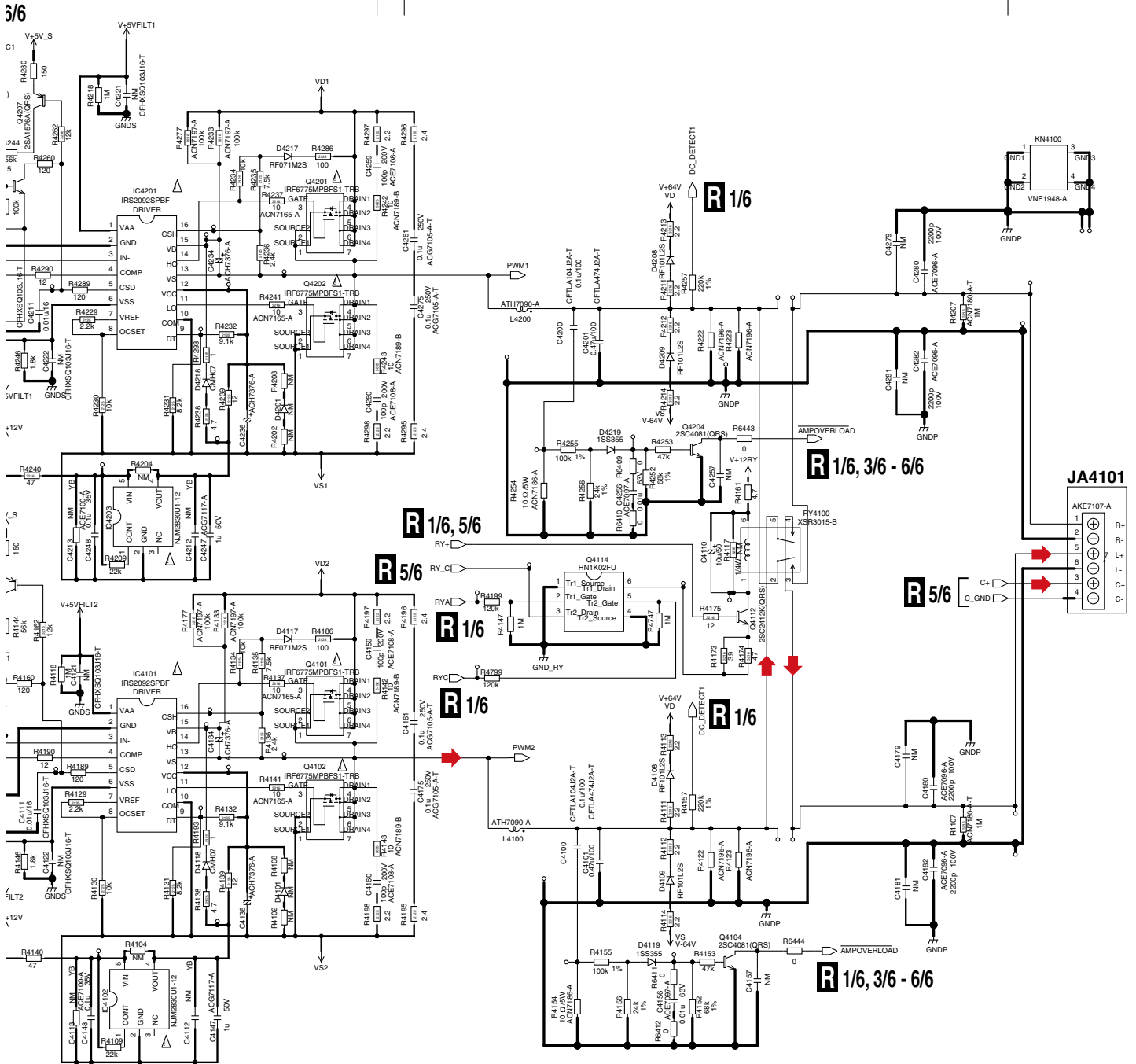
△

F

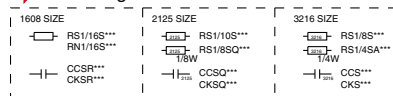
R^{2/6} D AMP_SS ASSY (2/6) (AWH7116)

ATOR & MOS FET Driver

Output Power Stage and LP Filter



Audio Signal Route



NOTE
1. RESISTORS
Unit: 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-F or u-F unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKRYB, YB:CKSOYB, YB:CKSYB, CH:CCSRCH
HAT:CEHAT, ZL:CEHAZL
3. NM: No Mount

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

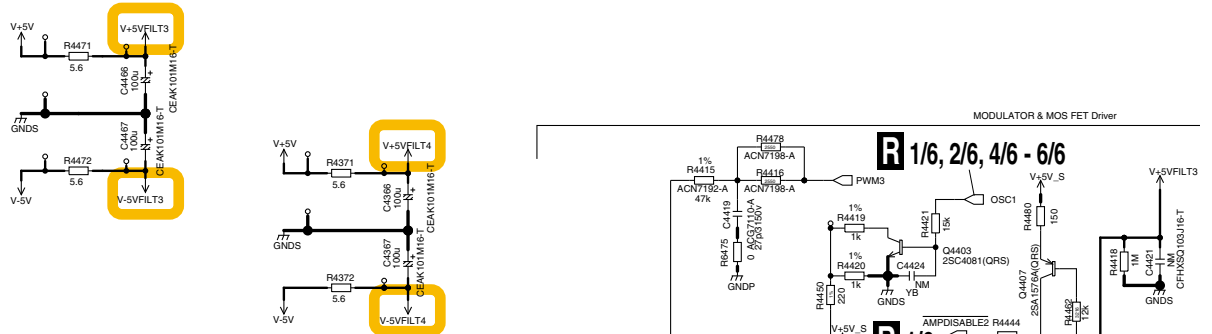
SC-91

R^{2/6}

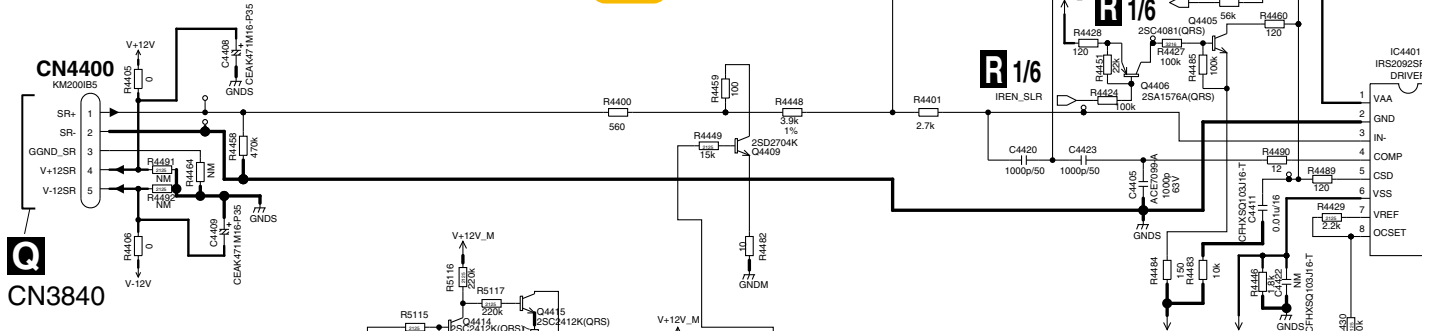
145

10.30 D AMP_SS ASSY (3/6)

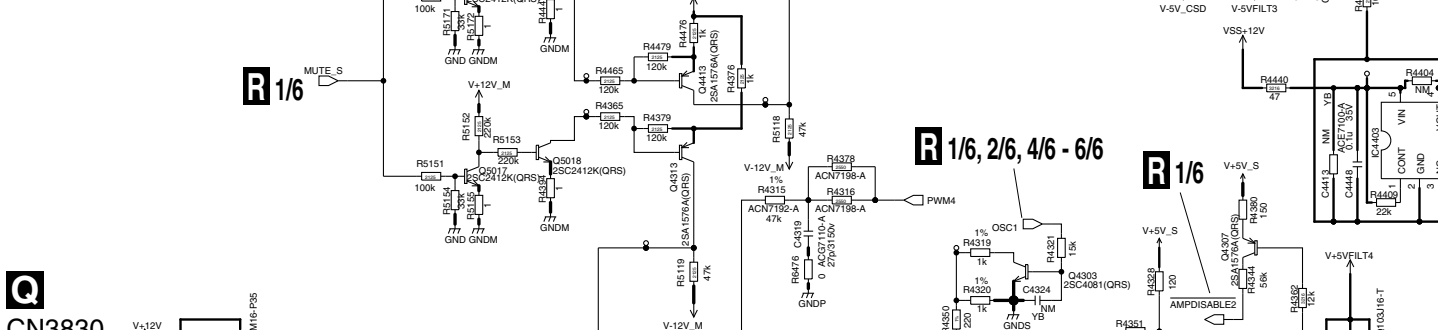
A



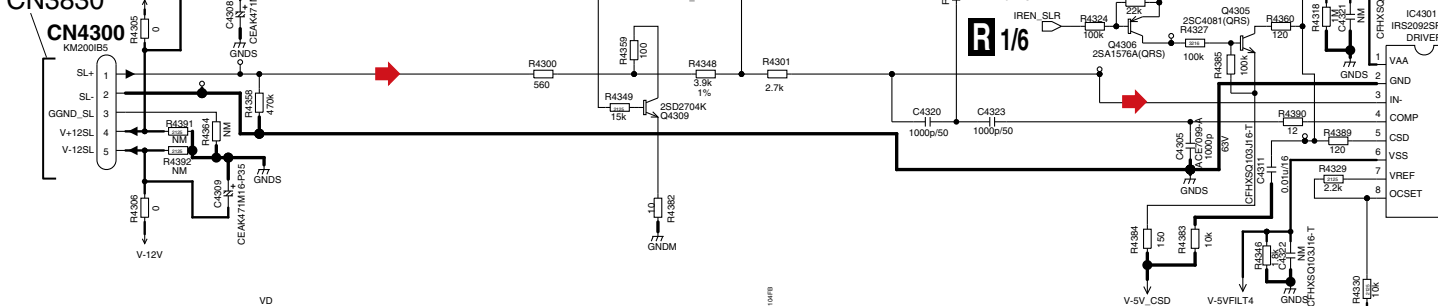
B



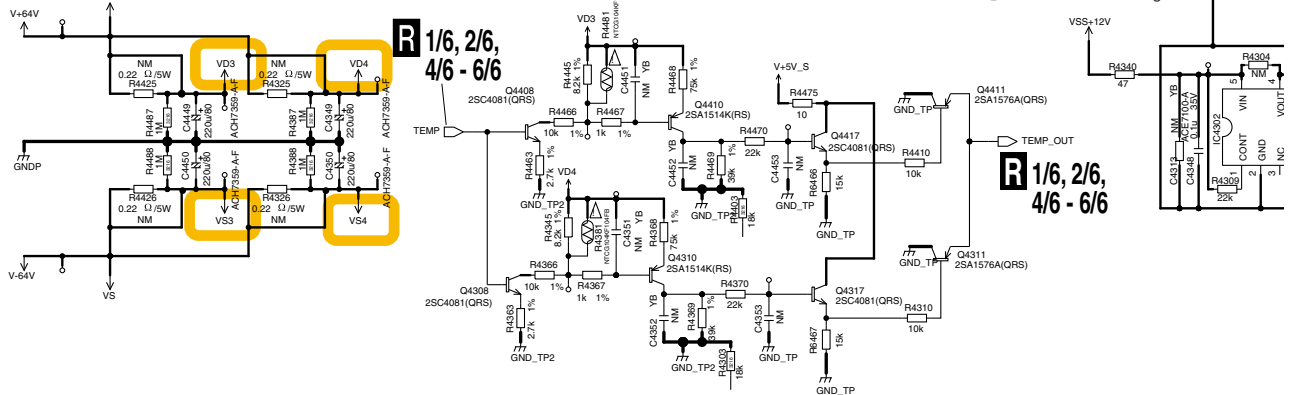
C



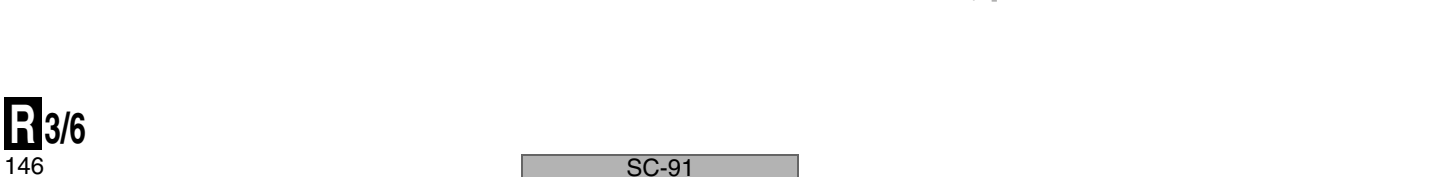
D



E



F



A

Output Power Stage and LP Filter



➡: Audio Signal Route

F

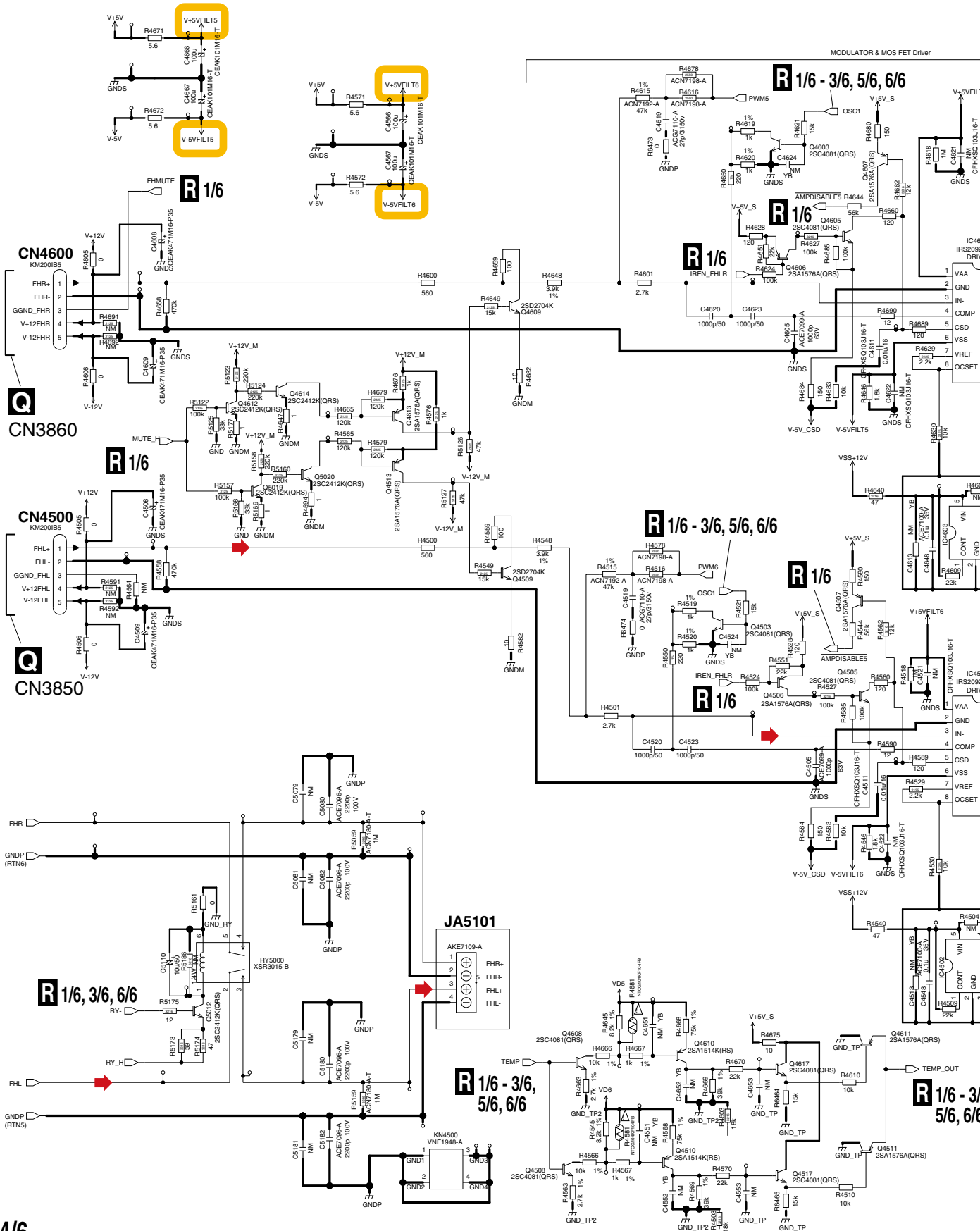
F

F

147

4

F



A

Output Power Stage and LP Filter



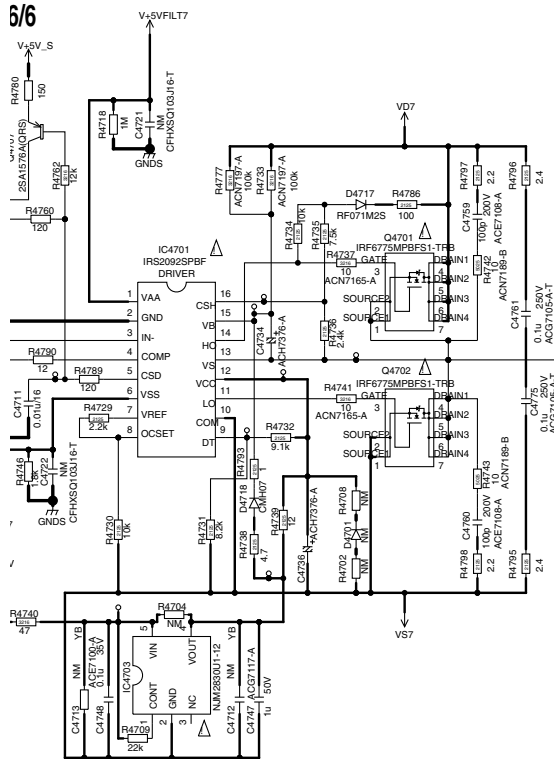
The mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

149

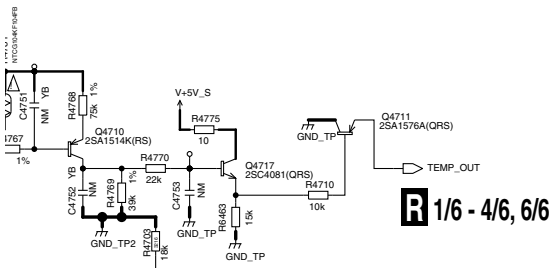
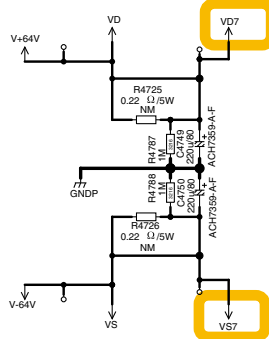
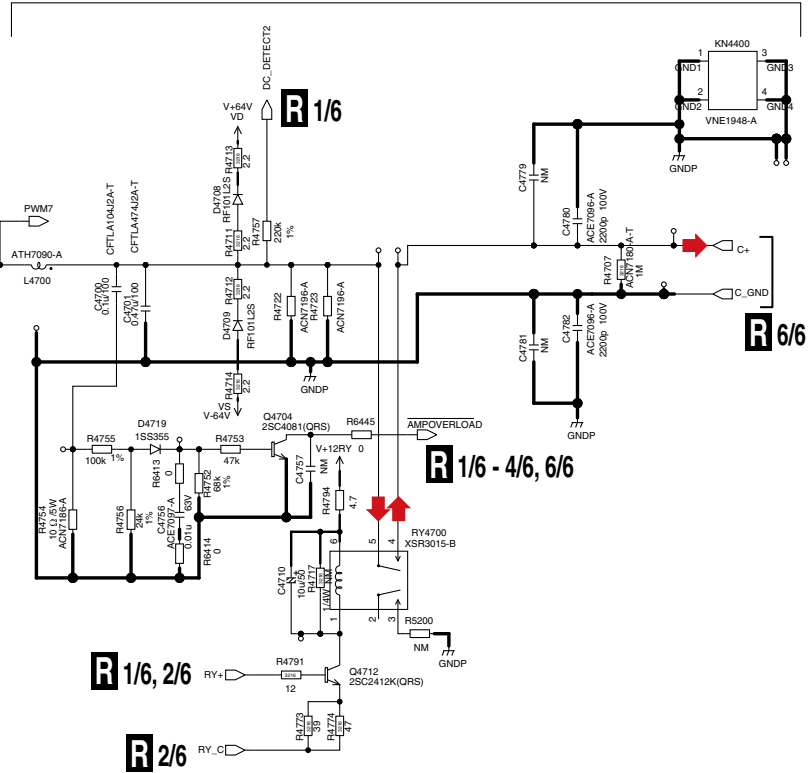
△

R5/6 D AMP_SS ASSY (5/6) (AWH7116)

MODULATOR & MOS FET Driver



Output Power Stage and LP Filter



➔ : Audio Signal Route

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

- NOTE
- RESISTORS
Unit: k-Ω, M-Ω or Ω unless otherwise noted.
Rated Power: 1/16W unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
 - CAPACITORS
Unit: pF or uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSQYB, YVB:CKSQYB, SYB:CKSQYB, CH:CCSRCH
HAT:CEHAT, ZL:CEHATL
 - NM: No Mount

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

SC-91

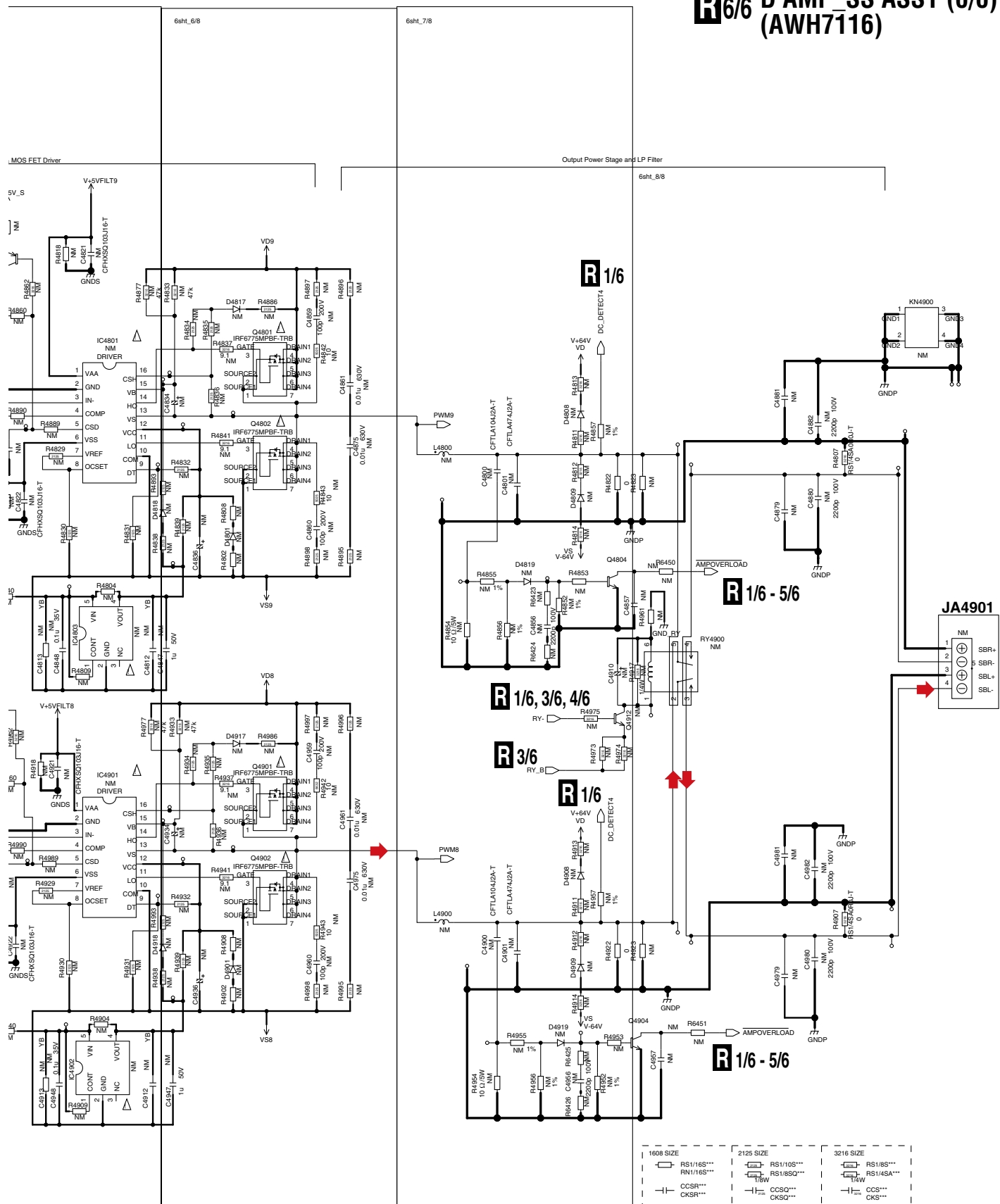
R5/6

151

4



R^{6/6} D AMP_SS ASSY (6/6) (AWH7116)



10.34 PRIMARY ASSY

A

CAUTION - FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE,
REPLACE ONLY WITH
SAME TYPE NO.215002.
MFD. BY LITTELFUSE INC.
FOR FU4.

This caution is applied only
north America destination.

B

C

D

E

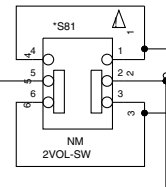
F

PRIMARY

Heat Sink for D50
ANH7224-A
with BBZ30P080FCC

AC
INLET

*JA71
YEL 1 LIVE
WHT 1 NEUTRAL



MAIN
TRANS

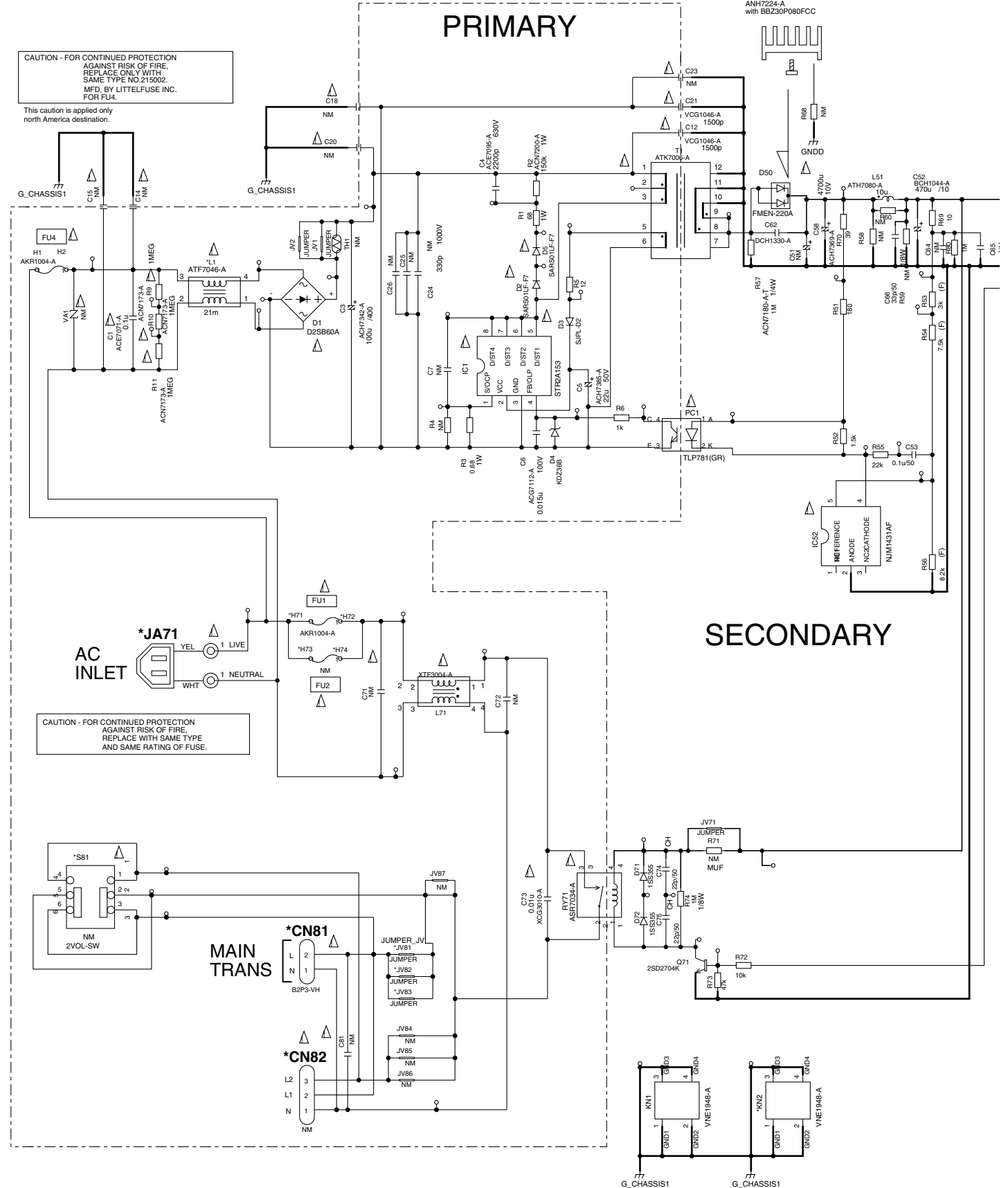
*CN81
B2P3-VH

*CN82
L2 3
L1 2
N 1

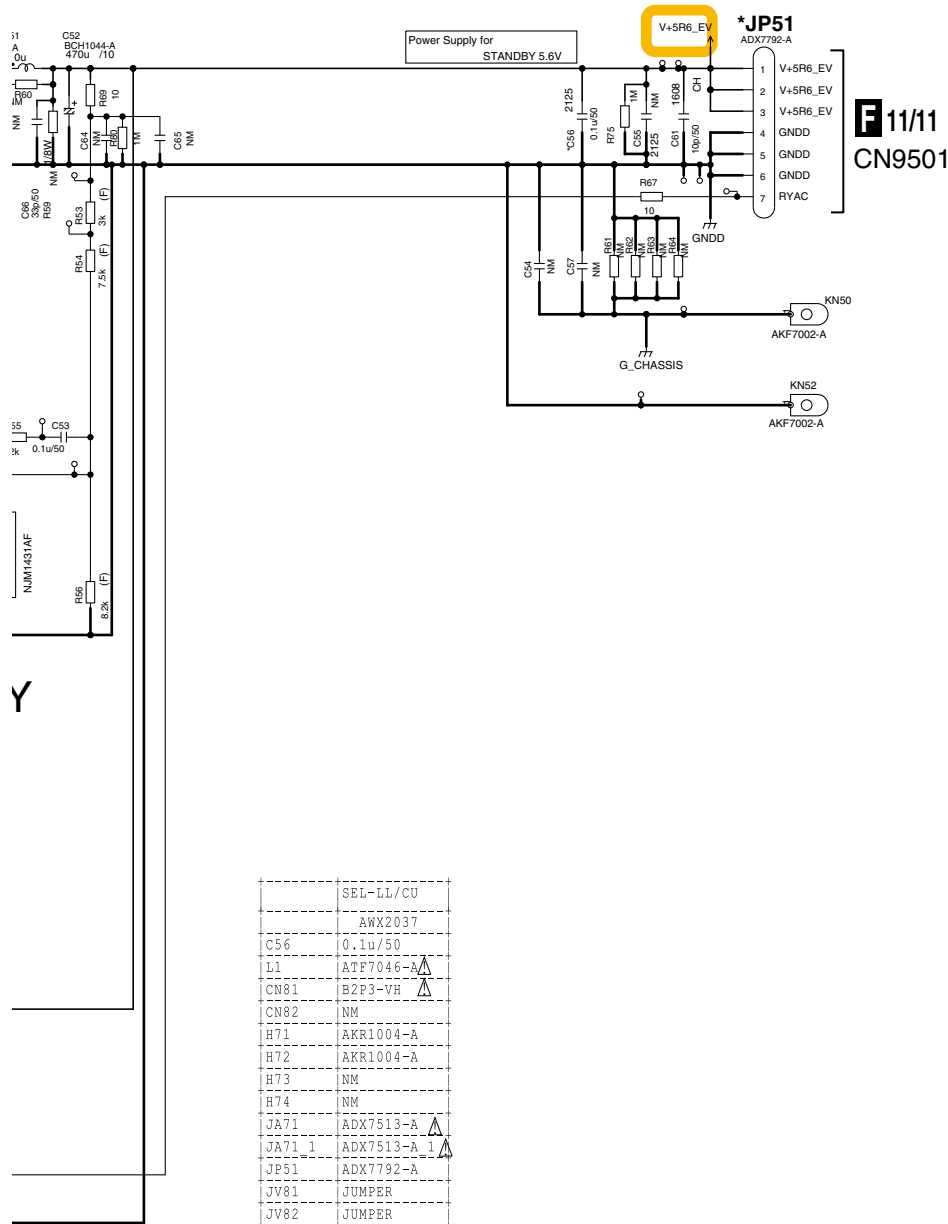
SECONDARY

KN1
GND1 3
GND2 4

KN2
GND1 3
GND2 4



S PRIMARY ASSY (AWX2037)

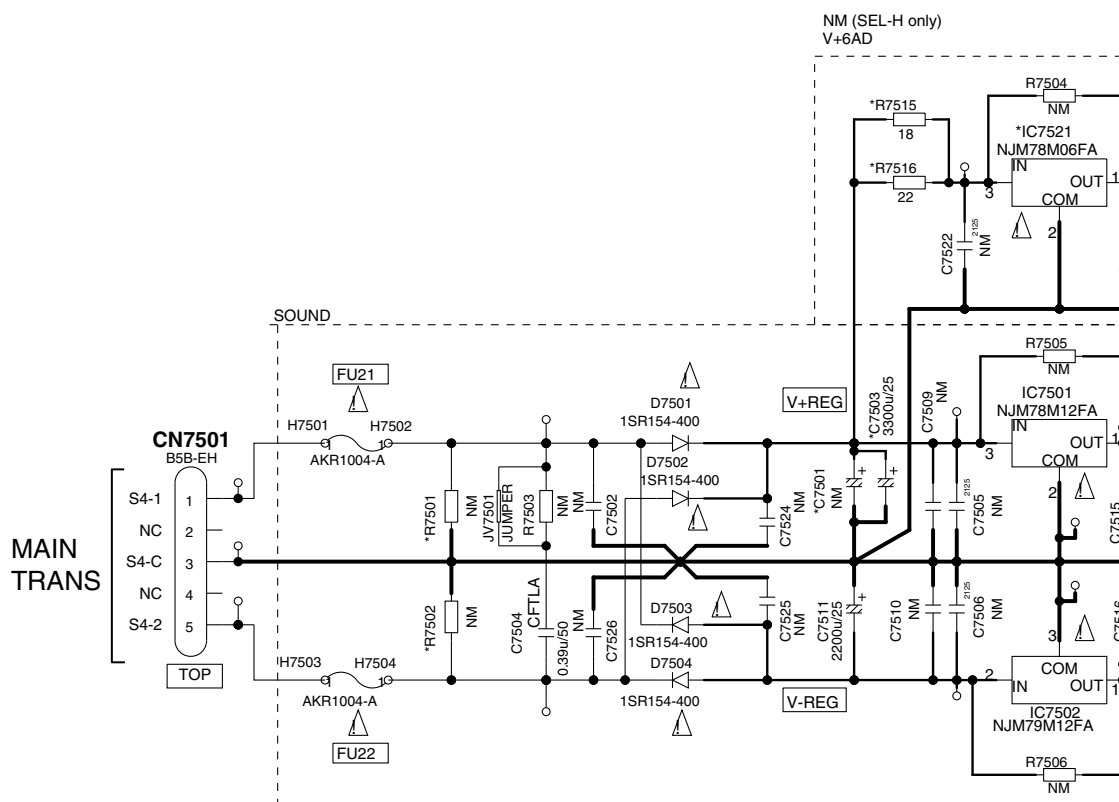


	SEL-LL/CU
	AWX2037
C56	0.1u/50
L1	ATF7046-A Δ
CN81	B2P3-VH Δ
CN82	NM
H71	AKR1004-A
H72	AKR1004-A
H73	NM
H74	NM
JA71	ADX7513-A Δ
JA71 1	ADX7513-A 1 Δ
JP51	ADX7792-A
JV81	JUMPER
JV82	JUMPER
JV83	JUMPER
KN2	VNE1948-A
S81	NM

4

JH7501	JH7502
AEF7008-A	AEF7008-A

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



NOTE

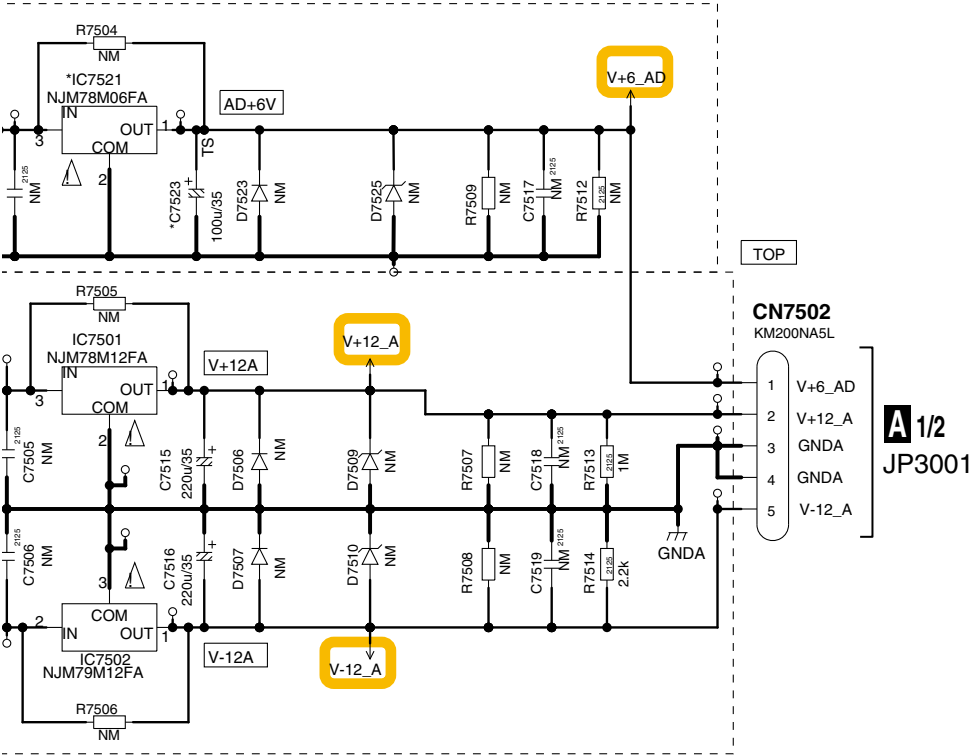
1.RESISTORS
Unit: k-k Ω , M-M Ω or Ω
unless otherwise noted.
Rated power: 1/10W unless
otherwise noted.
Tolerance: (J) $\pm$ 5% unless
otherwise noted.
2125 : RS1/BSQ
MUF : RS1/4MUF

2.CAPACITORS
Unit: p-pF, or μ F unless
otherwise noted.
Ratings: Capacity(μ F)/Voltage(V)
unless otherwise noted.
NP : CEANP
CFTLA : CFTLA
AK : CEAK
NO MARKED : CEAT or CKSRYB

3. NM : NO MOUNT

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

A
B
C
D
E
F

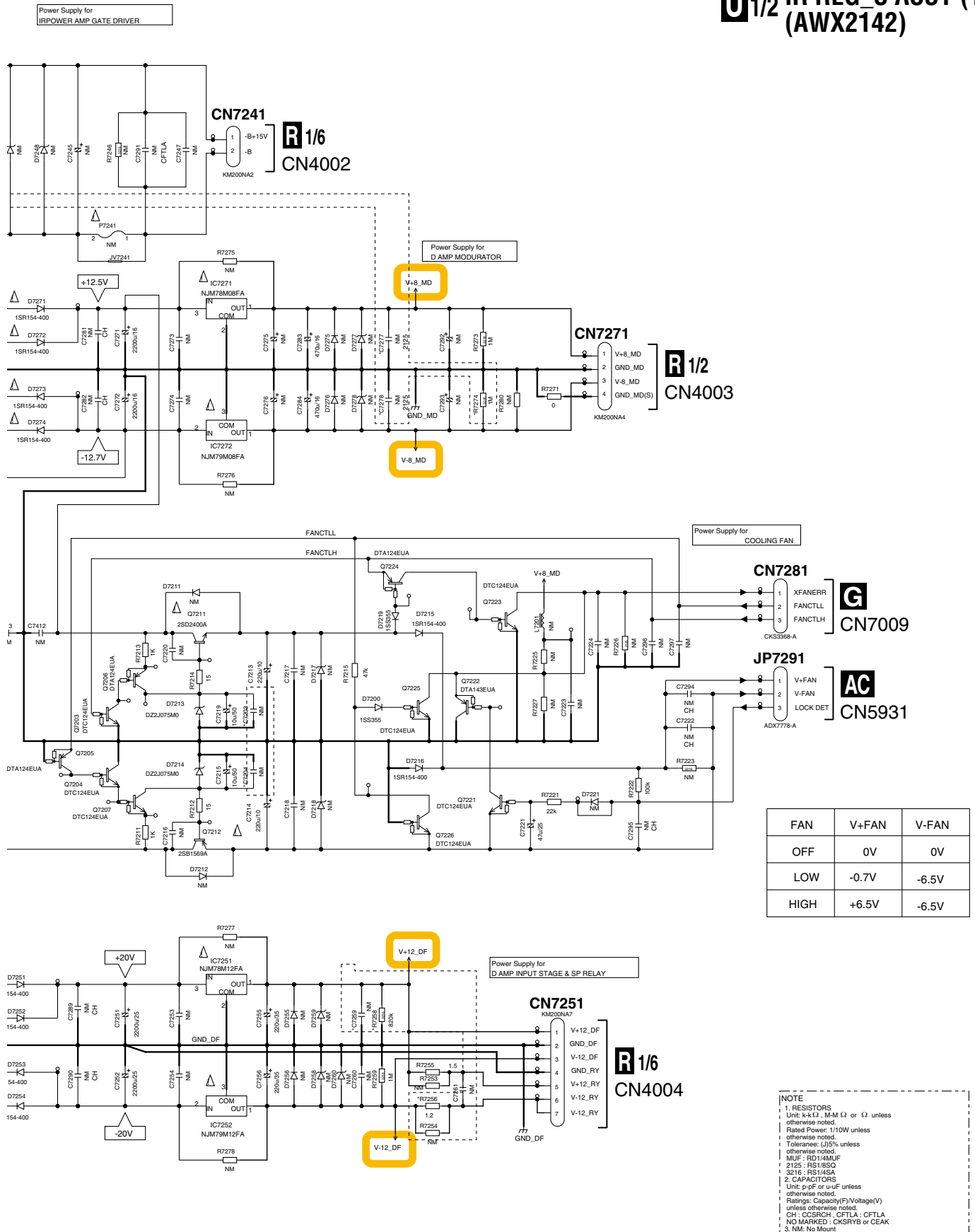


	AWX2171
C7523	NM
R7515	NM
R7516	NM
IC7521	NM
	AWX2171
C7501	2200u/25
C7503	NM
R7501	1M
R7502	1M

4



U^{1/2} IR REG_S ASSY (1/2) (AWX2142)



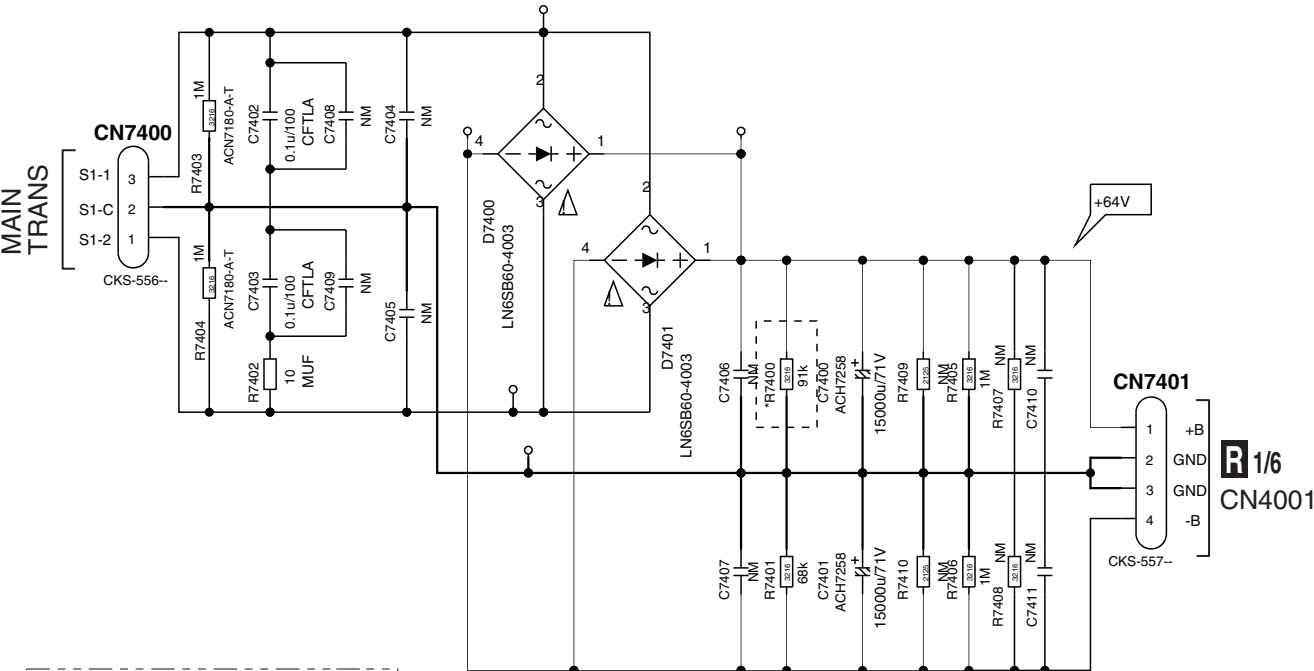
The Δ mark found on some component parts should be replaced
with same parts (safety regulation authorized) of identical designation.

U^{1/2}

SC-91

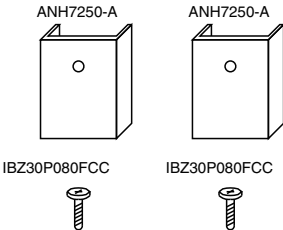
10.37 IR REG_S ASSY (2/2)

U_{2/2} IR REG_S ASSY (2/2)
(AWX2142)



NOTE
1. RESISTORS
Unit: 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
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

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



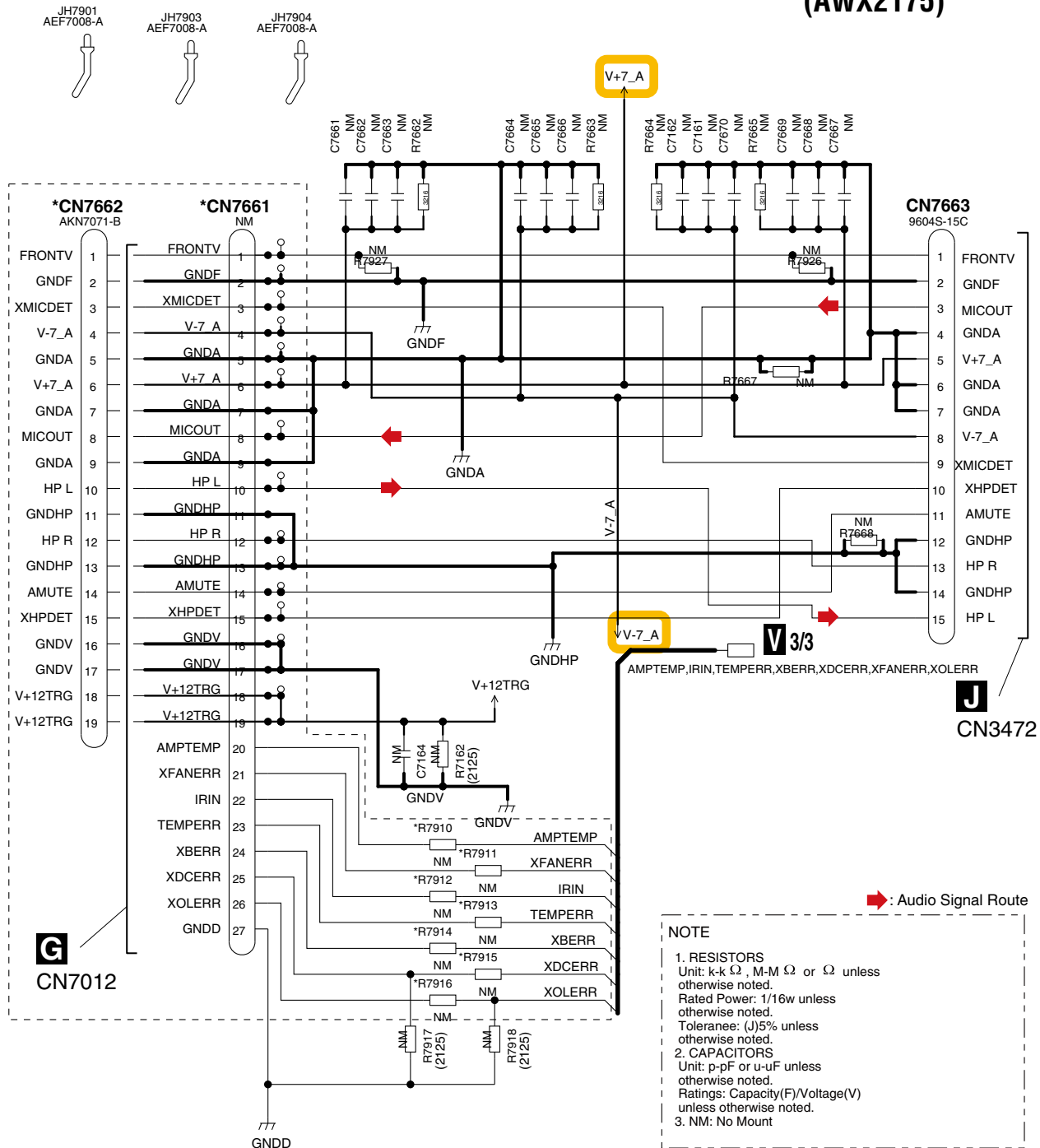
C7246	AWX2142
C7277	470/25
C7278	NM
C7279	NM
R7274	1M

C7259	AWX2142
R7256	NM
R7258	1.5
R7258	1M

C7203	AWX2142
C7204	NM

R7400	AWX2142
R7400	91k

V_{1/3} V-REG_S ASSY (1/3)
(AWX2175)



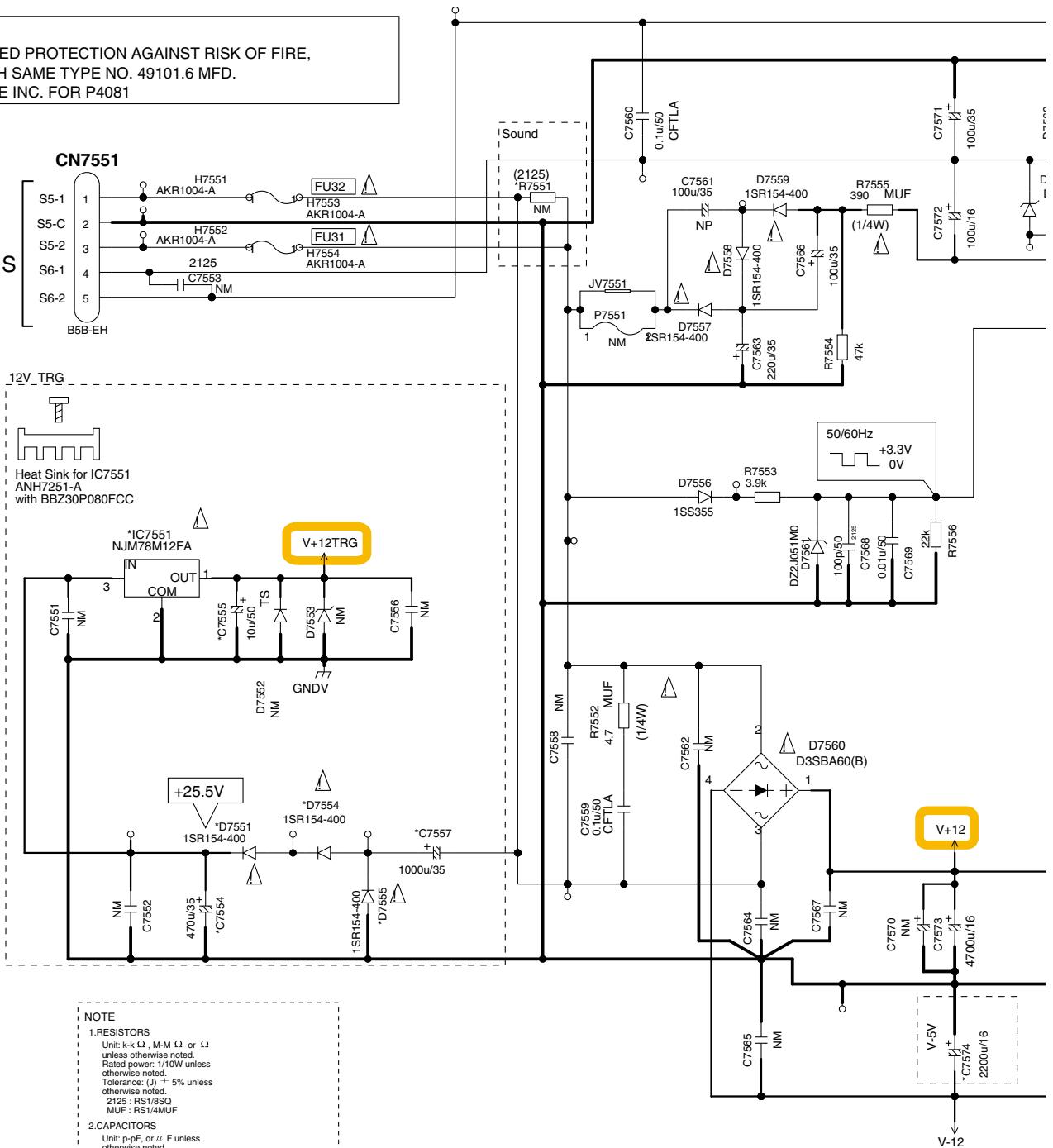
	AWX2175
R7910	10
R7911	100
R7912	0
R7913	12
R7914	12
R7915	12
R7916	12
CN7661	AKN7151-B
CN7662	NM

10.39 V-REG_S ASSY (2/3)

CAUTION-
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE NO. 49101.6 MFD.
BY LITTELFUSE INC. FOR P4081

TOP

MAIN
TRANS



NOTE

1.RESISTORS

Unit: k Ω , M Ω or Ω
unless otherwise noted.
Rated power: 1/10W unless
otherwise noted.
Tolerance: (J) $\pm$ 5% unless
otherwise noted.
2125: RS1/8SQ
MUF: RS1/4MUF

2.CAPACITORS

Unit: p μ F, or μ F unless
otherwise noted.
Ratings: Capacity(μ F)/Voltage(V)
unless otherwise noted.
NP: CEANP
CFTLA: CFTLA
AK: CEAK
NO MARKED: CEAT or CKSRYB

3. NM: NO MOUNT

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

A

DF

F



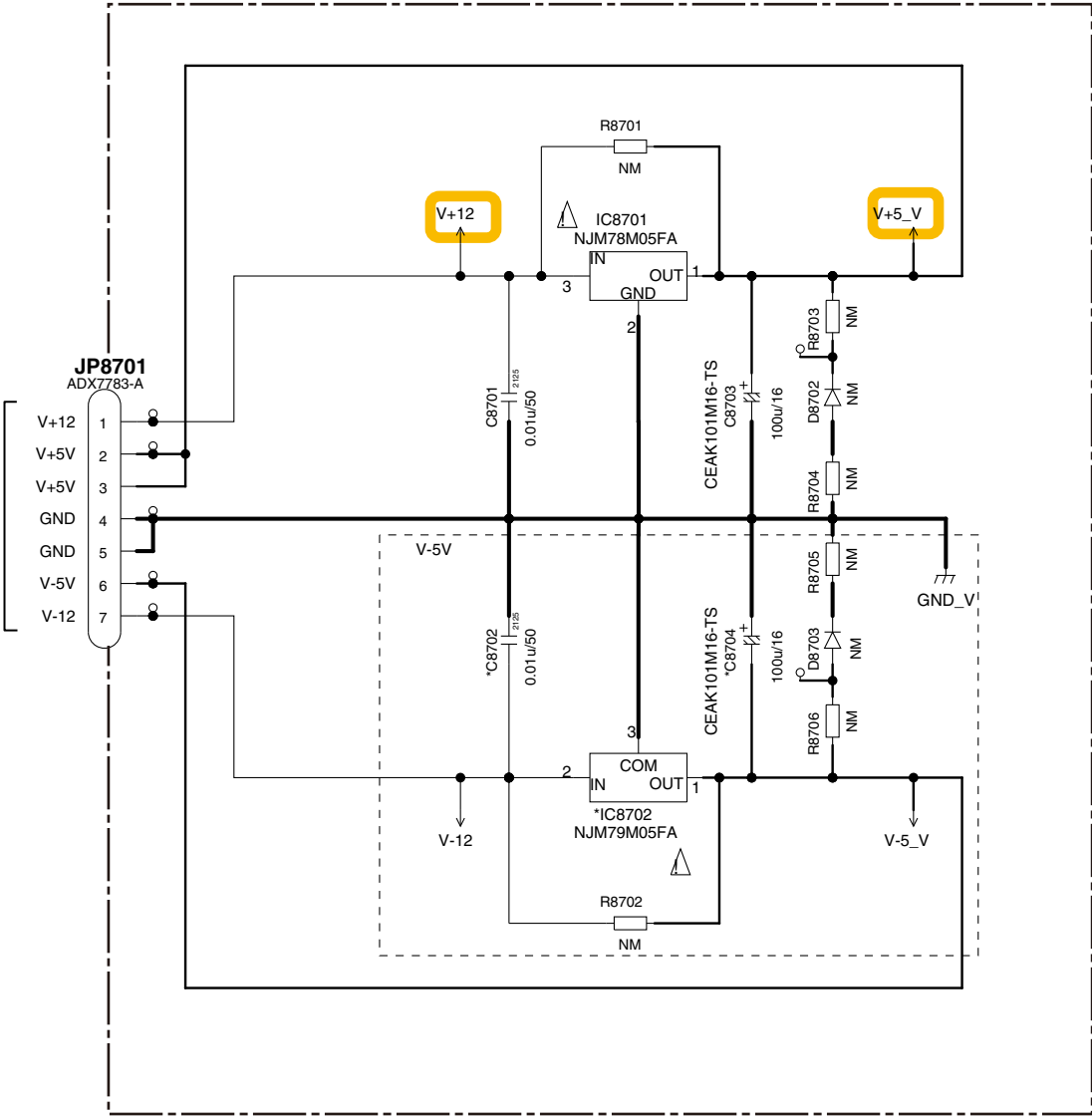
A

E

F

W VREG CHILD_S ASSY (AWX2176)

V_{2/3}
CN7552



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.
MUF: RD1/4MUF
2. CAPACITORS
Unit: p-pF or u-uF unless
otherwise noted.
Ratings: Capacity(F)/Voltage(V)
unless otherwise noted.
CH: CCSRCH, CFTLA: CFTLA
NP: CEANP, AK: CEAK
NO MARKED: CKSRYB or CEAT
3. NM: No Mount

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

AWX2176	
C8702	NM
C8704	NM
IC8702	NM

10.42 CONNECT_S ASSY

X CONNECT_S ASSY
(AWX2147)

F 2/11
CN603

G
CN7004

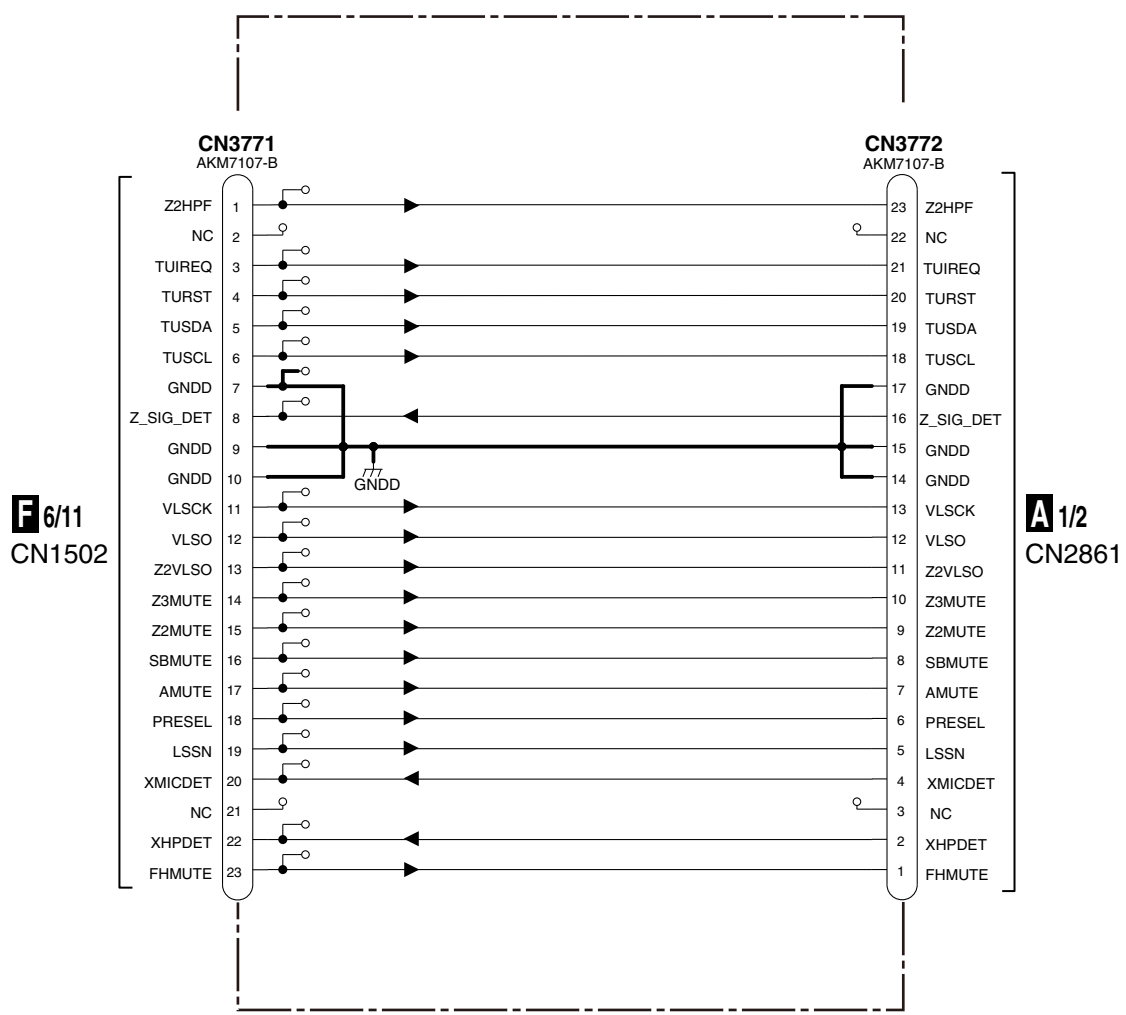
NOTE
1. RESISTORS
Unit: k-k Ω , M-M Ω or Ω unless
otherwise noted.
Rated Power: 1/16w unless
otherwise noted.
Tolerance: (J)5% unless
otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless
otherwise noted.
Ratings: Capacity(F)/Voltage(V)
unless otherwise noted.
3. NM: No Mount

AWX2147	
R7958	15
R7962	NM
R7963	NM
R7964	NM
R7965	NM
R7971	15
CN7951	NM
CN7953	NM

SC-91

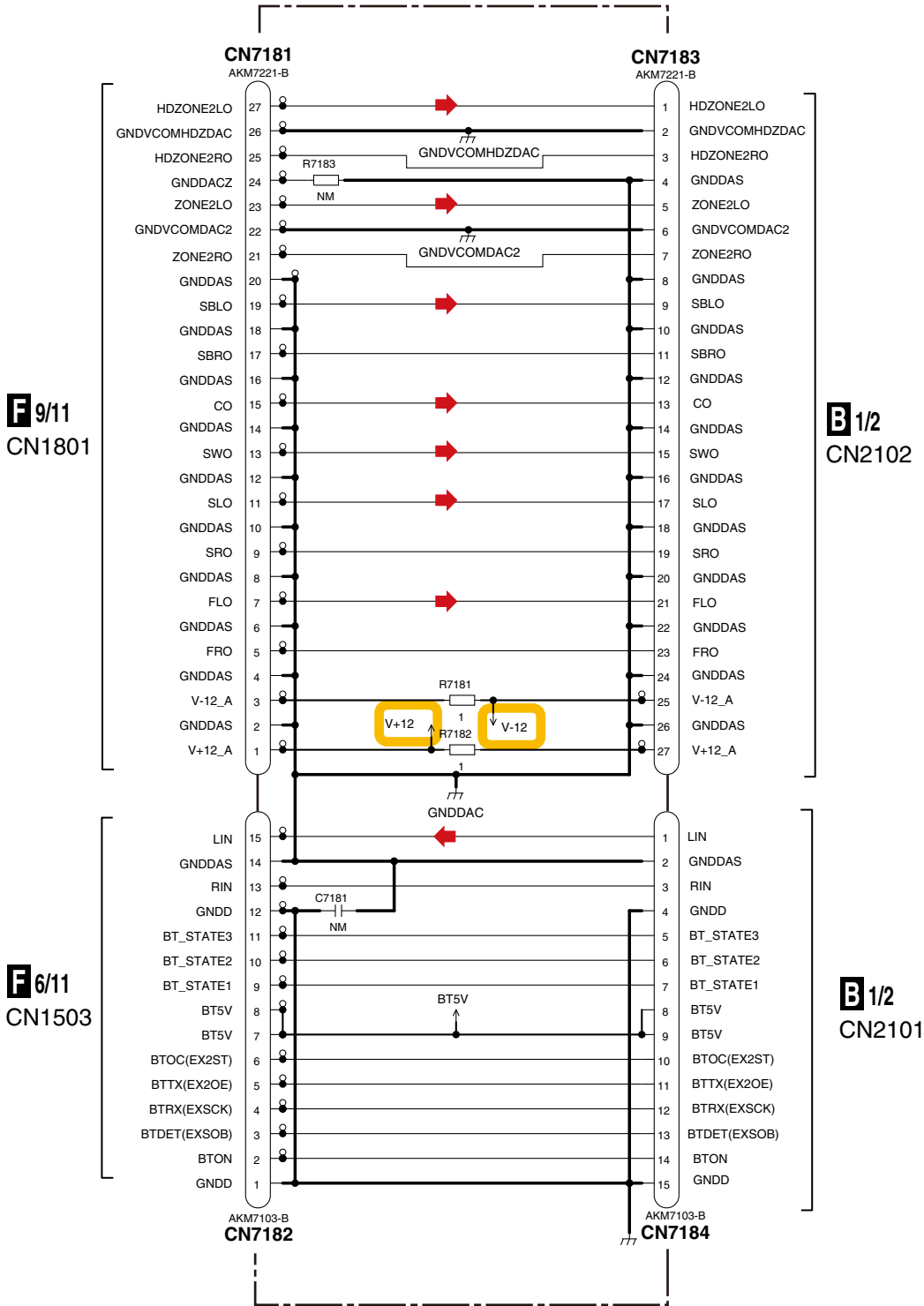
Z

D-AUDIO BRIDGE ASSY
(AWX1772)



10.45 D-FILTER BRIDGE_S ASSY

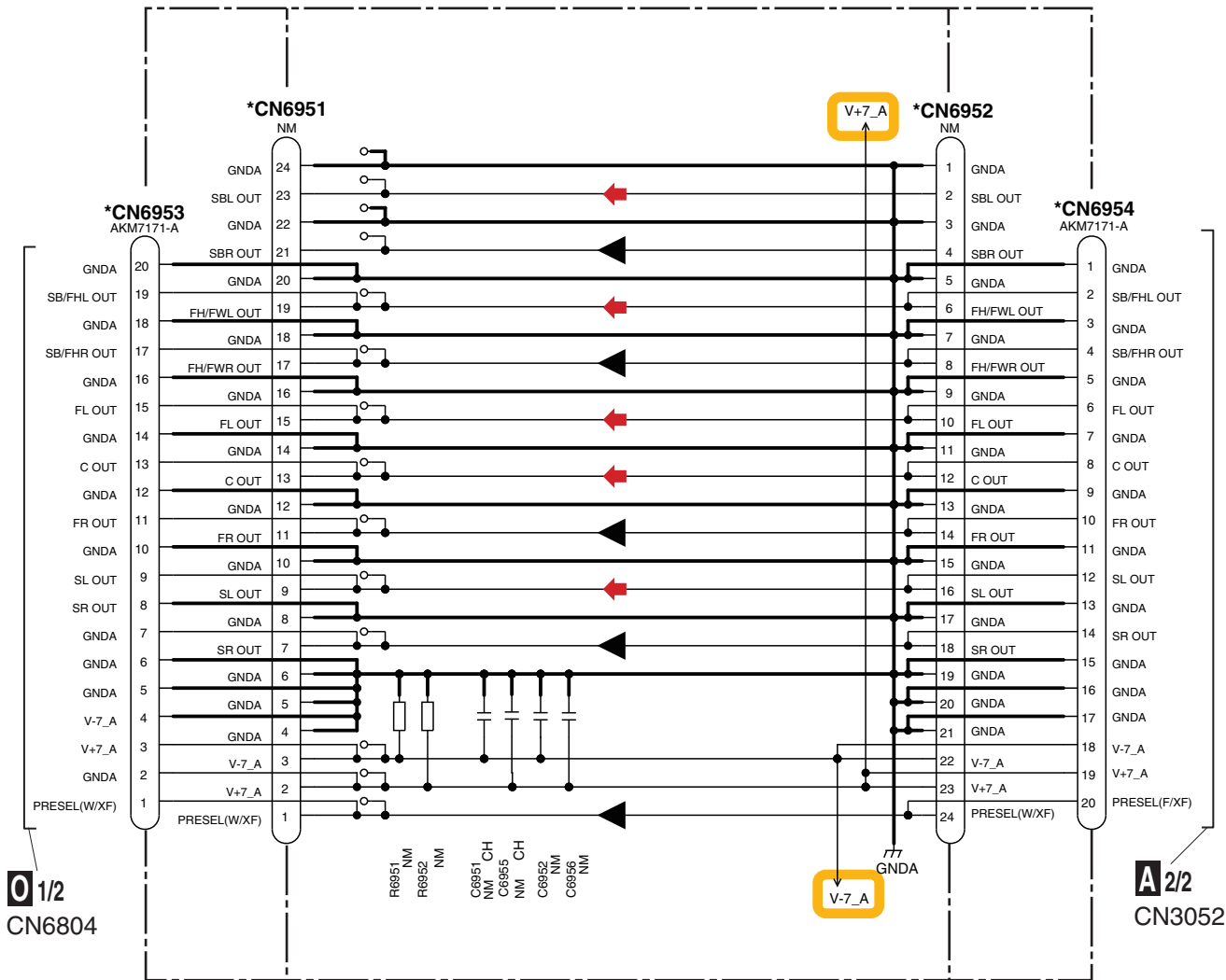
AA D-FILTER BRIDGE_S ASSY (AWX1859)



NOTE

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

➡ : Audio Signal Route



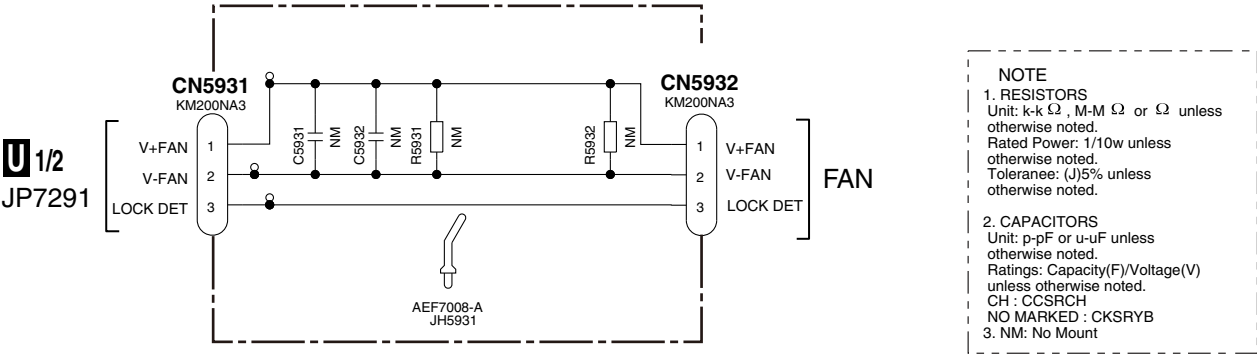
1234

10.47 FAN CONNECT, MIC HP GUARD, BIND DM CABLE_S and P WIRE GUARD_S ASSYS

A

AC

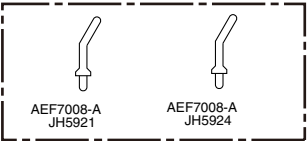
FAN CONNECT ASSY
(AWX1775)



C

AD

MIC HP GUARD ASSY
(AWX2052)



AF

P WIRE GUARD_S ASSY
(AWX1864)



D

AE

BIND DM CABLE_S ASSY
(AWX1863)



E

F

10.48 FFC GUARD_S, VREG GUARD, BINDFAN CABLE_S, TRANS VREG
STYL_S, PANEL GUARD and IR EDGE GUARD_S ASSYS

AG FFC GUARD_S ASSY
(AWX1862)



AJ TRANS VREG STYL_S ASSY
(AWX1890)



AH VREG GUARD ASSY
(AWX2053)



AK PANEL GUARD ASSY
(AWX2054)



AI BINDFAN CABLE_S ASSY
(AWX1865)



AL IR EDGE GUARD_S ASSY
(AWX1779)



AG AH AI AJ AK AL

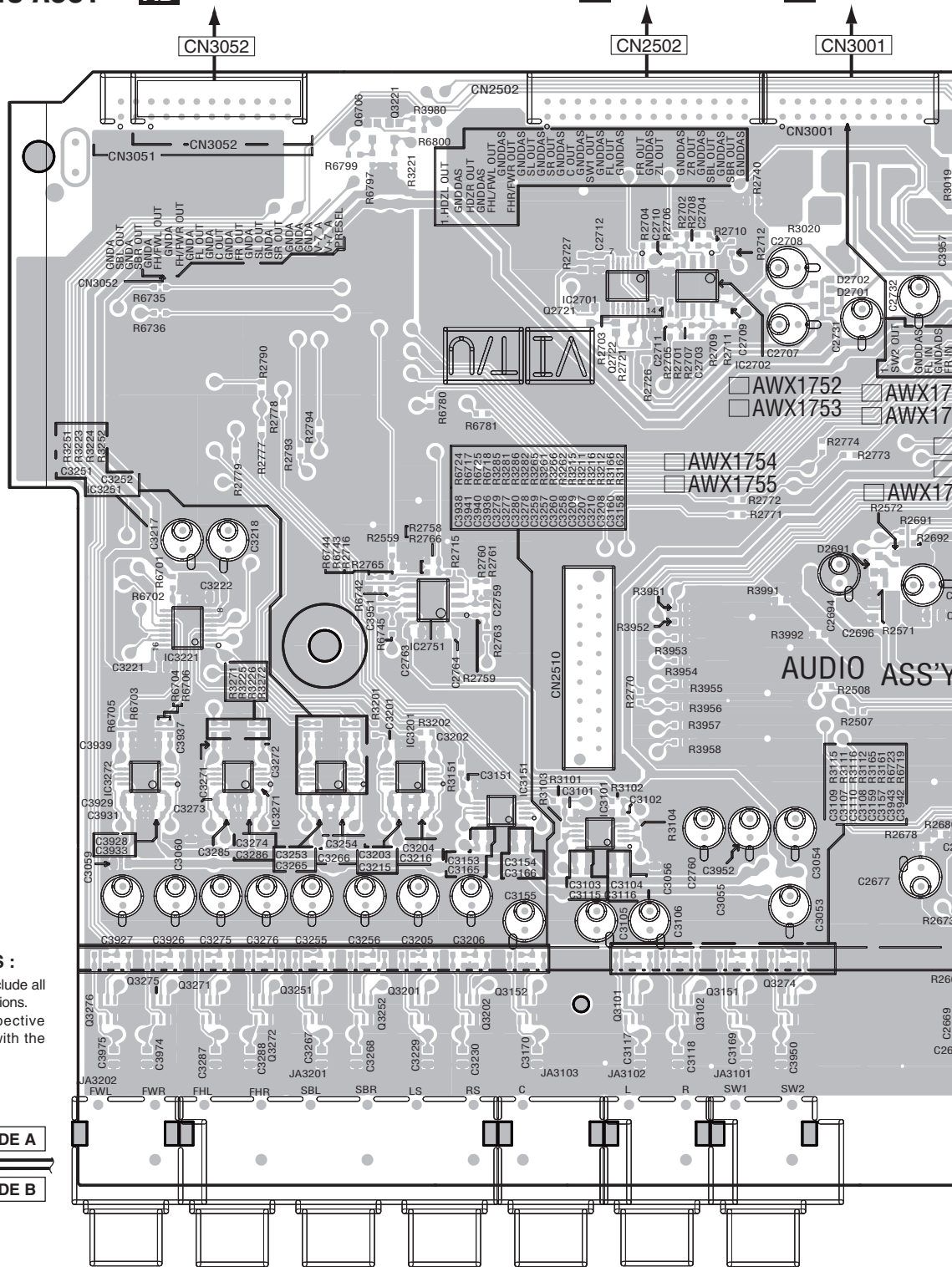
AG AH AI AJ AK AL

11.1 AUDIO ASSY

A AUDIO ASSY **AB** CN6954

Y CN3794

Y CN3792



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.

Diagram illustrating the components of a P.C. Board:

- Connector
- Capacitor
- P.C. Board
- Chip Part

SIDE A

SIDE B

Q6706 Q3221

Q2721 Q2722

Q	Q3276	Q3275	Q3271	Q3272	Q3251	Q3252	Q3201	Q3202	Q3152	Q3101	Q3102	Q3151	Q3274
---	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

IC	IC2701	IC2702
----	--------	--------

IC3272	IC3221	IC3271	IC3251	IC2751	IC3151	IC3101
--------	--------	--------	--------	--------	--------	--------

SC-91

A



C

D

E

F

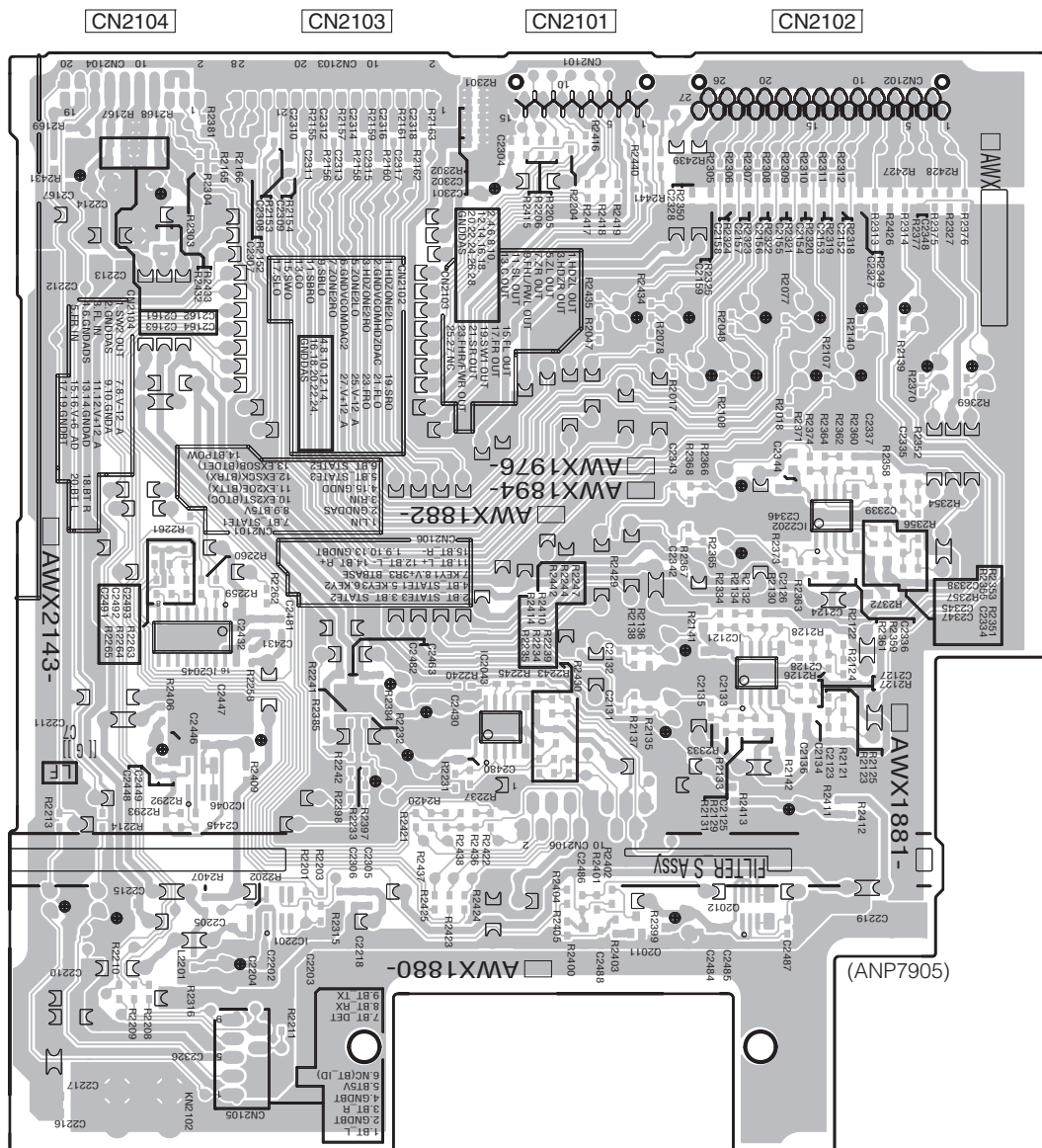
175

SIDE B

SIDE B

A

B FILTER_S ASSY



Q

Q2011

Q2012

IC

IC2045
IC2046

IC2201

IC2043

IC2121

IC2202

E

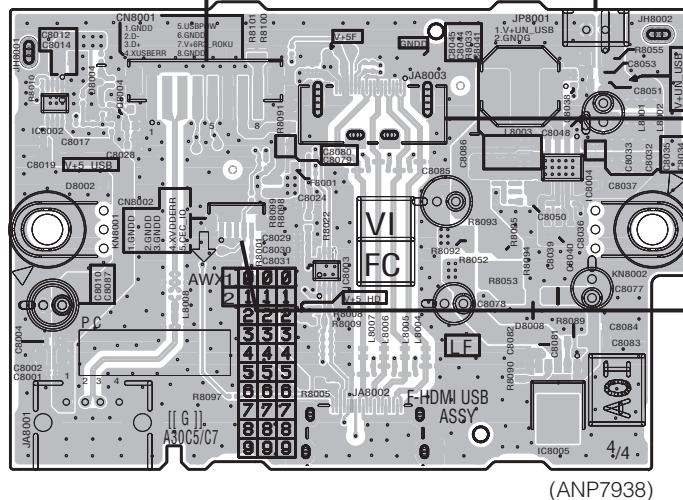
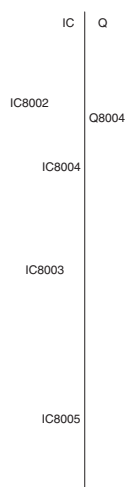
F

B

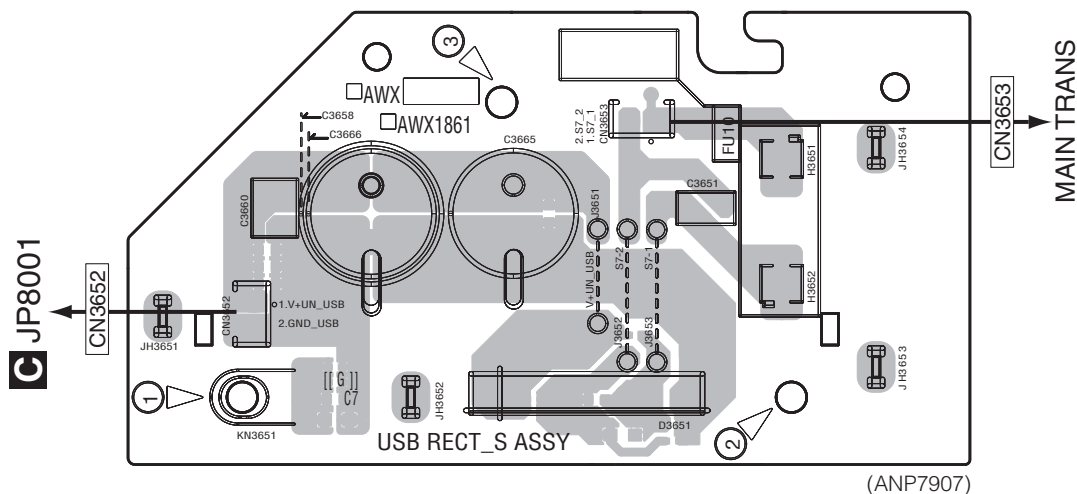
SC-91

B

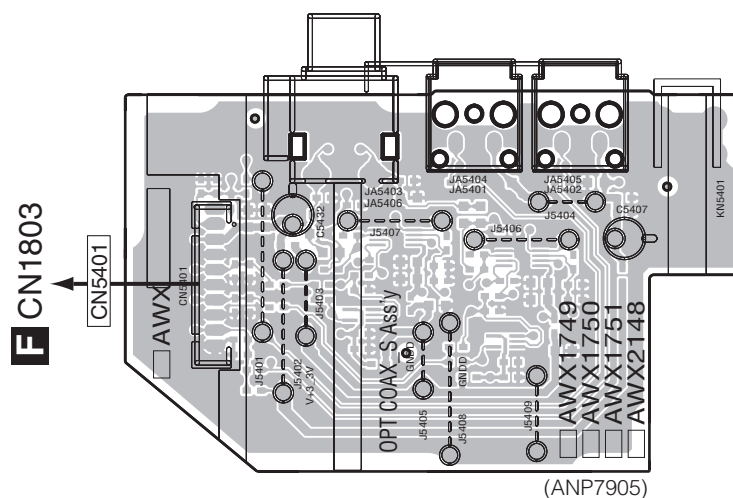
SIDE A



D USB RECT _S ASSY



E OPT COAX_S ASSY



SIDE A

V CN7901

CN3771

C JA8003

CN601

CN1502

X CN7952

CN8301

CN8001

NETWORK MODULE

Q	Q1001							
IC	IC611	IC608 IC612	IC609	IC9511 IC101	IC107 IC902	IC903	IC604	IC603
	IC9515	IC9505		IC901			IC9207	IC9101 IC1602
					IC1615			

SC-91

A

□

183

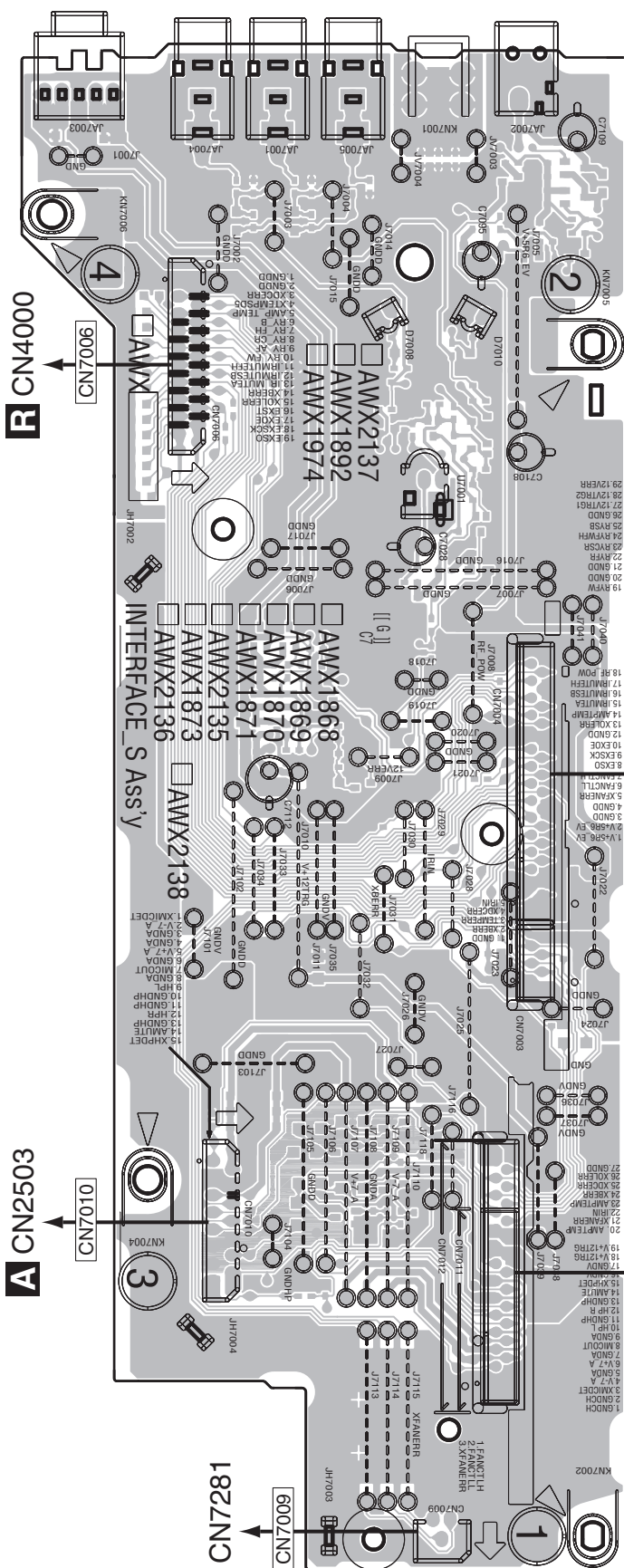
SC-91

11.5 INTERFACE_S ASSY

SIDE A

SIDE A

INTERFACE_S ASSY



G

G

SIDE B

G INTERFACE_S ASSY

SIDE B

IC Q

Q7022
Q7024
Q7021
Q7023

Q7013
Q7016 Q7015
Q7014

Q7010 Q7008

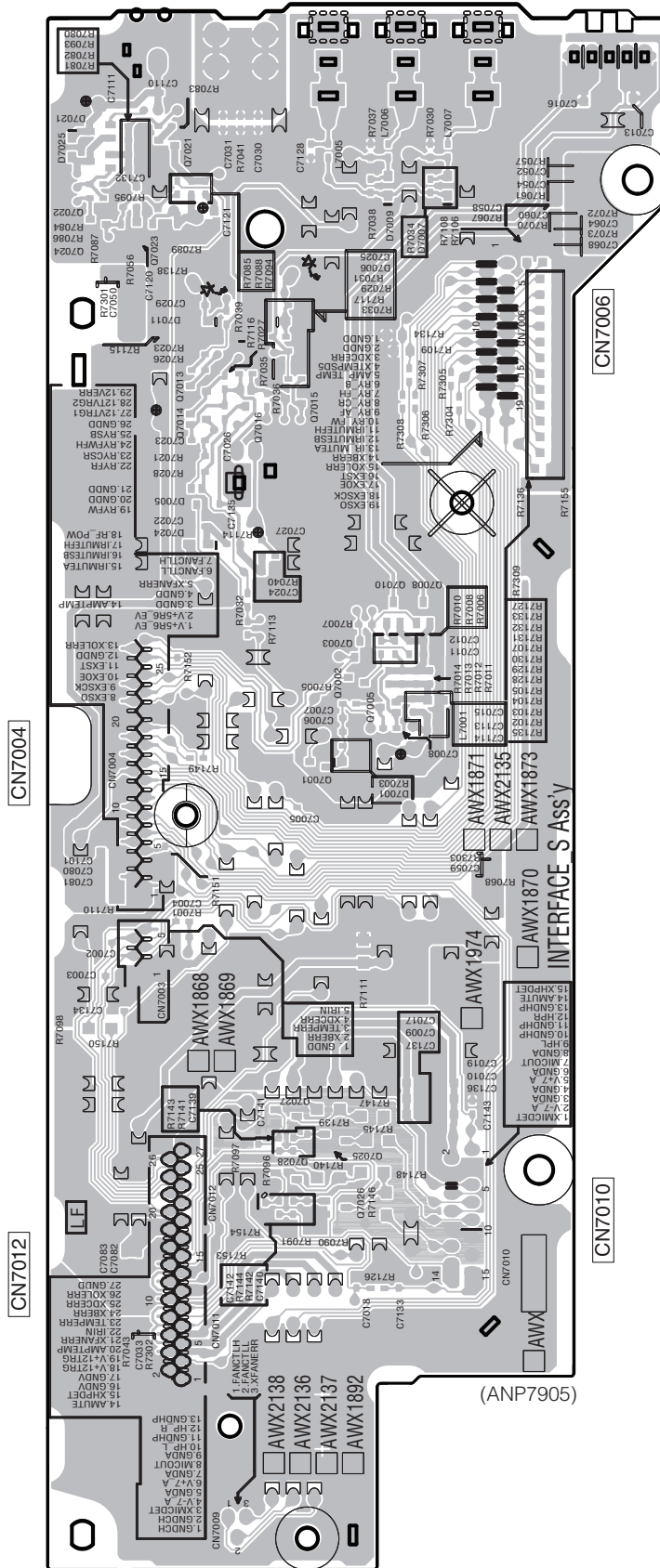
Q7003

Q7002

Q7005

Q7001

Q7027
Q7025
Q7028
Q7026



CN7009

SC-91



A
B
C
D
E
F

SIDE A

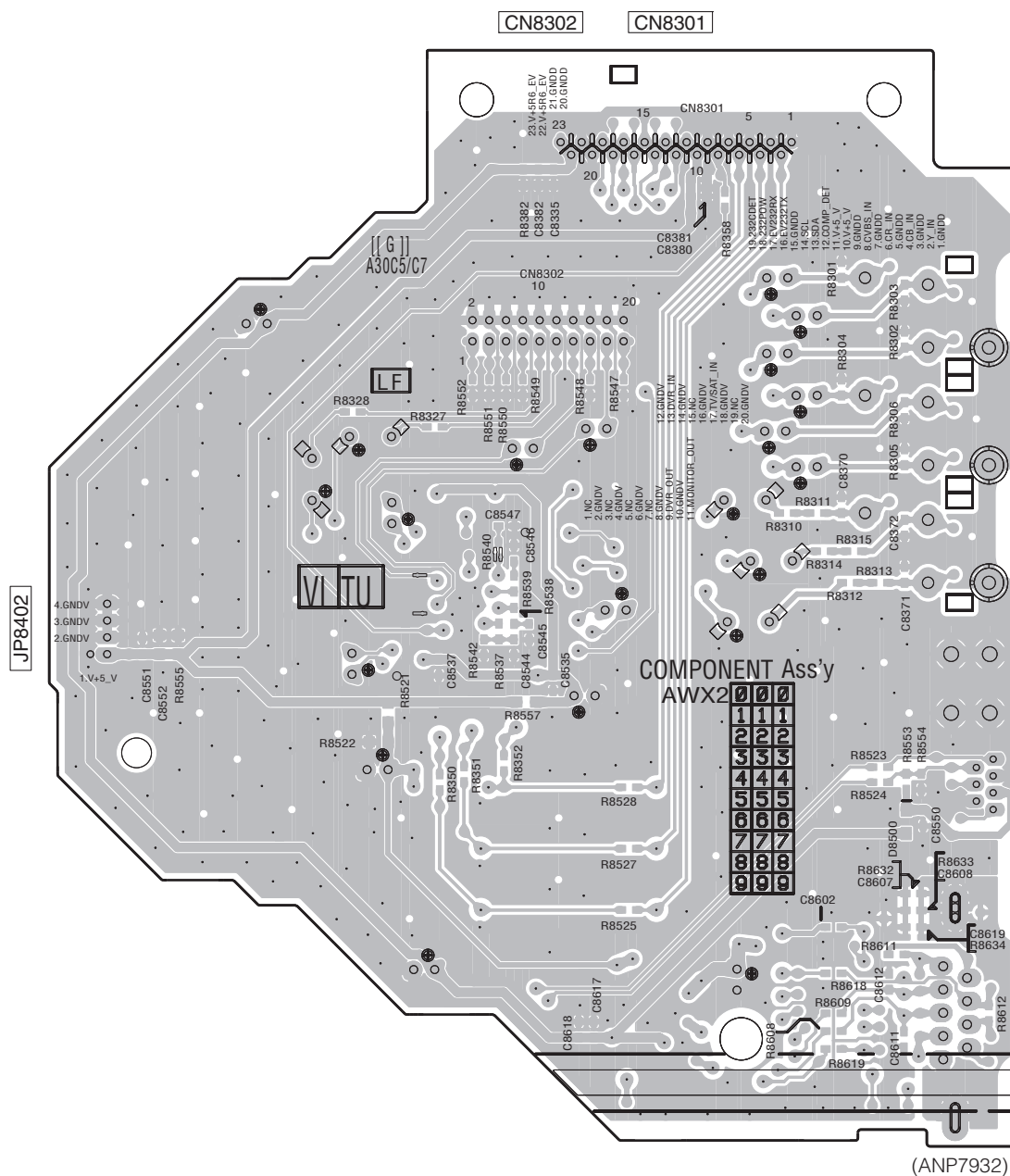
SIDE A

SIDE B

SIDE B

A

H COMPONENT ASSY



(ANP7932)

B

C

D

F

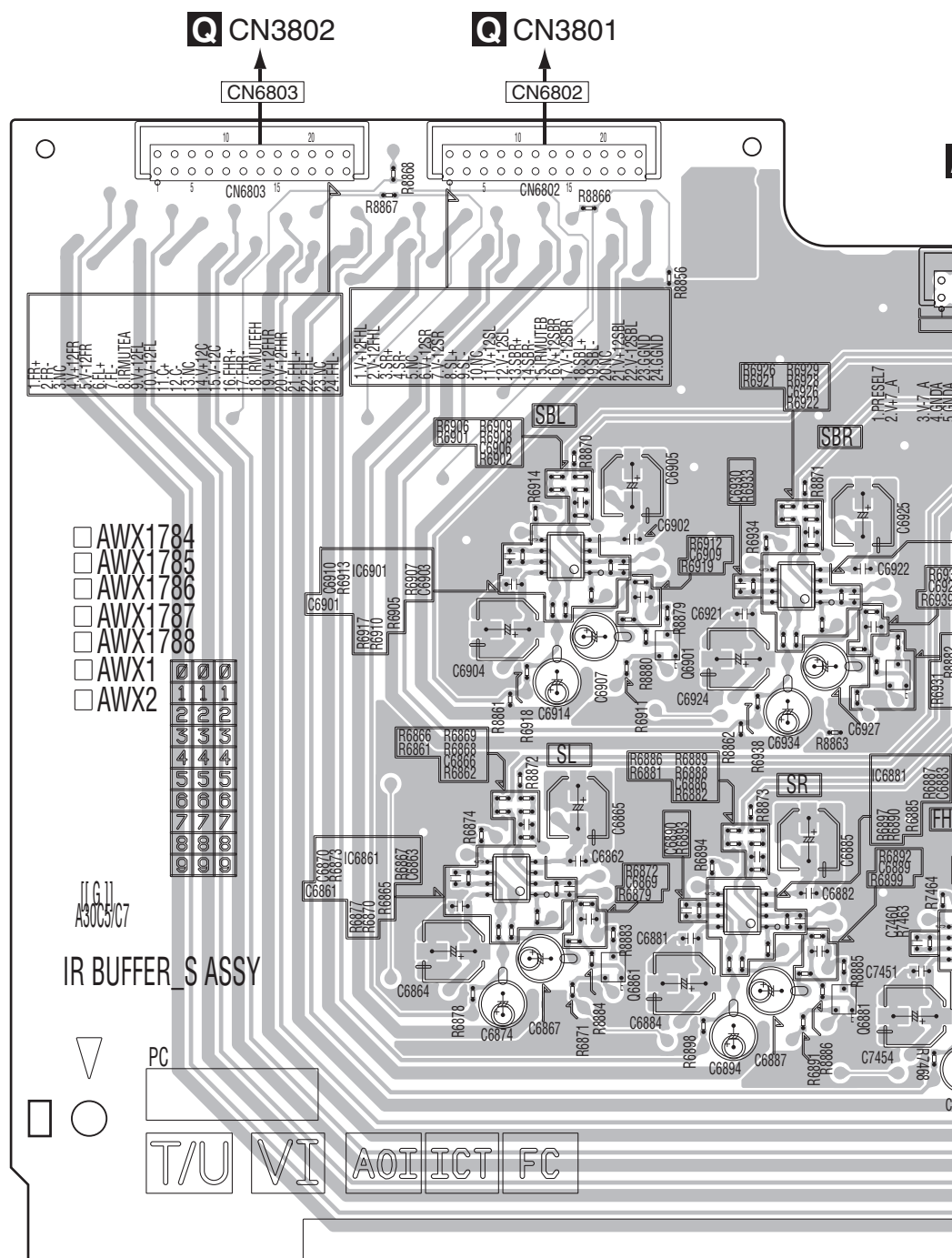
F

SIDE A

H CN8302



O IR BUFFER_S ASSY



Q		Q6901		Q6921
		Q6861		Q6881
IC		IC6901		IC6921
		IC6861		IC6881

SIDE A

A

B

C

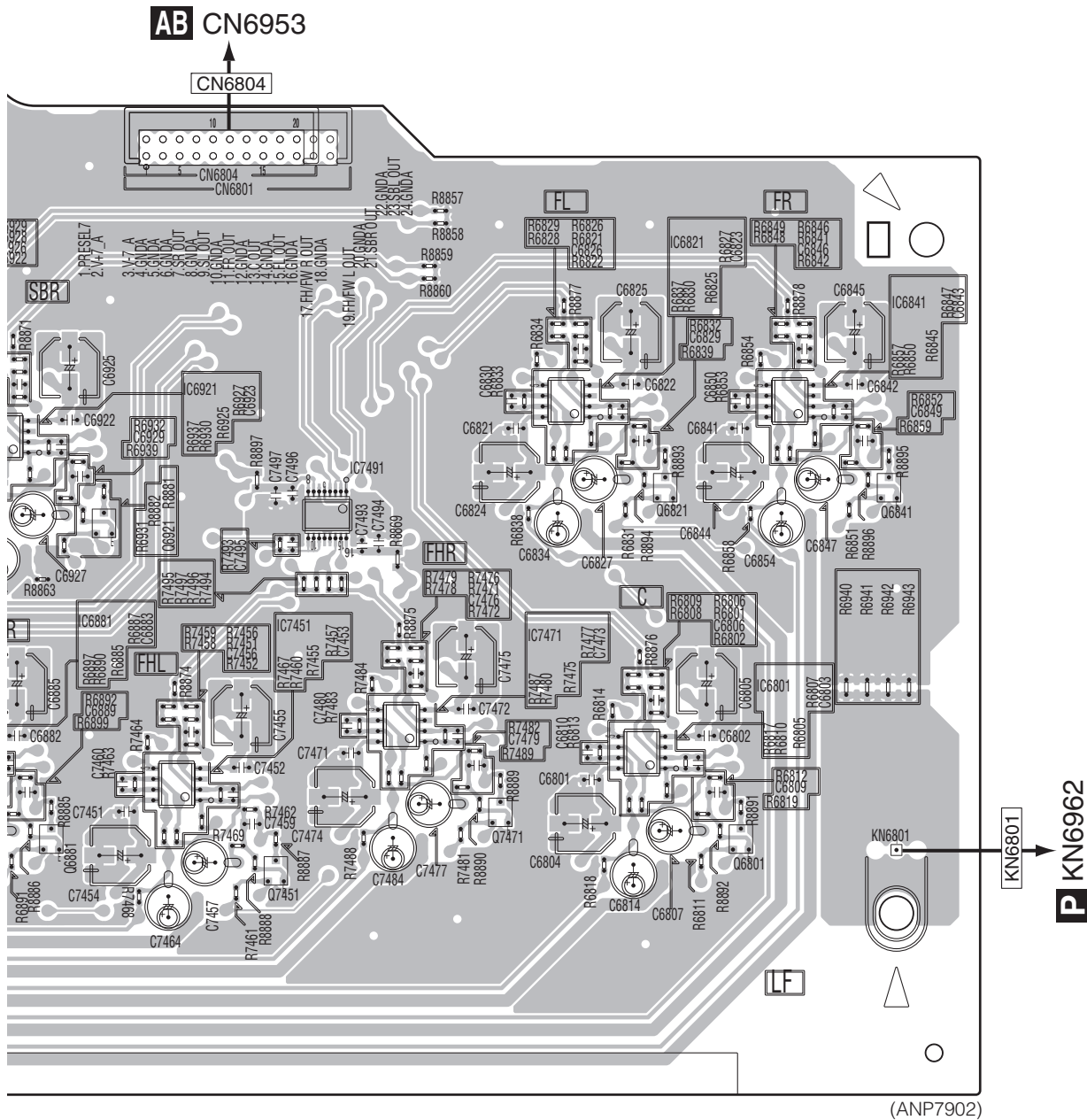
D

E

F

O

197



Q6881	Q6921	Q7451	Q7471	Q6821	Q6801	Q6841
IC7451	IC7491	IC7471	IC6821	IC6841		
IC7451			IC6801			

SC-91

SIDE B

A

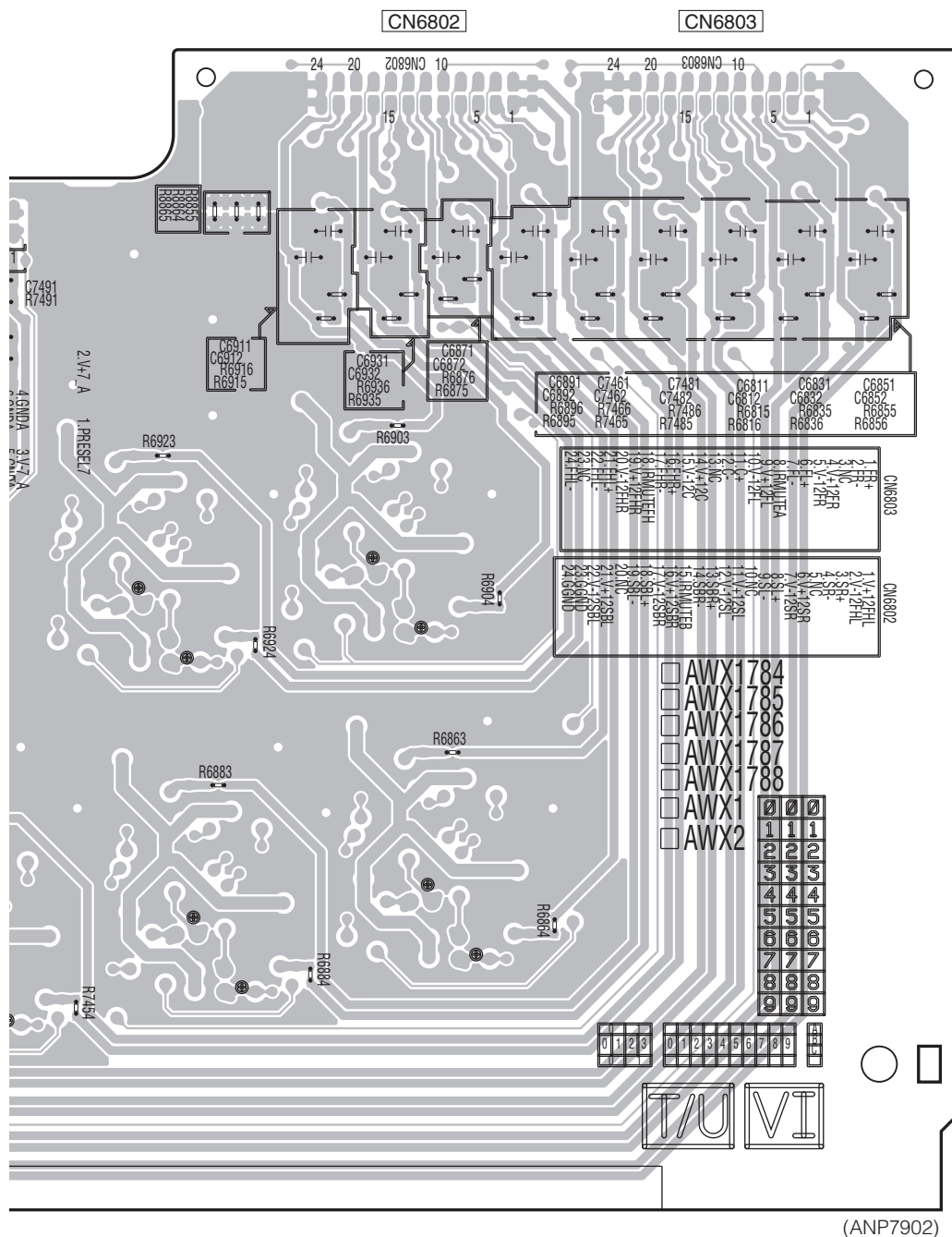
B

C

D

E

F



11.10 BUFFER GND ASSY and IR INTERFACE_S ASSY

SIDE A**SIDE A****Q** IR INTERFACE_S ASSY

P BUFFER GND ASSY

KN6801

O CN6802

O CN6803

CN3801

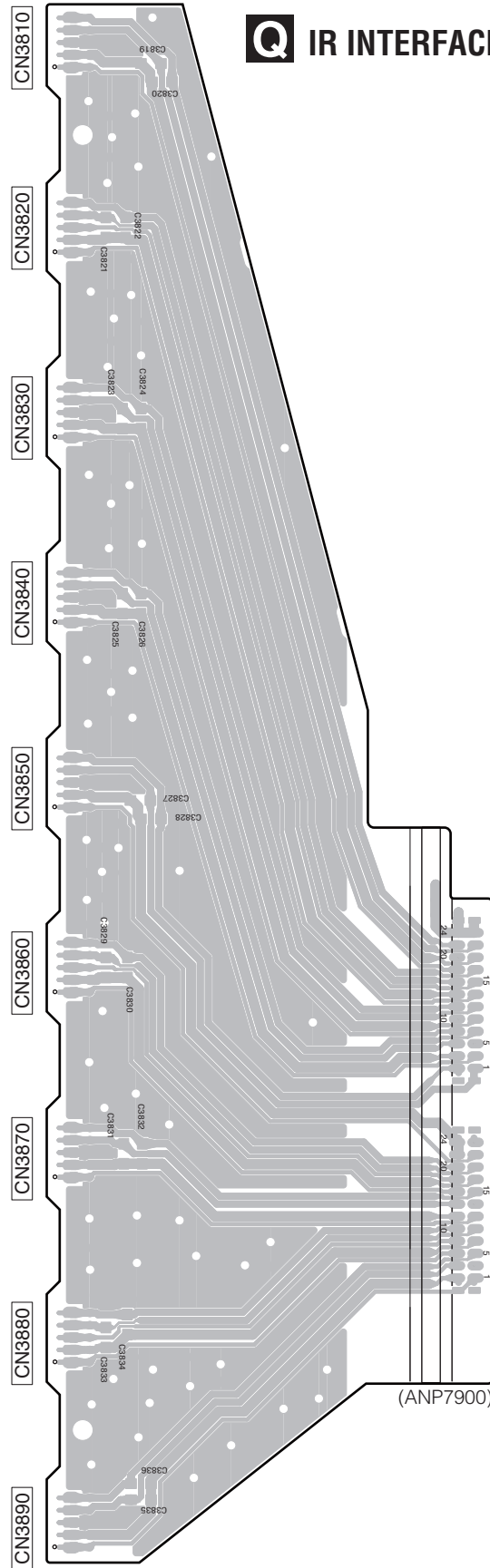
CN3802

(ANP7900)

SC-91

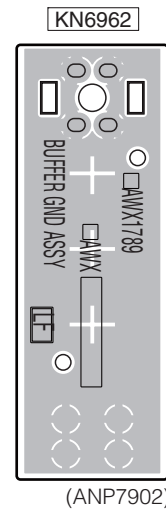
SIDE B

SIDE B



Q IR INTERFACE_S ASSY

P BUFFER GND ASSY



P **Q**

P **Q**

SIDE A

R D AMP_SS ASSY



A

B

C

D

F

F



R

1

2

3

4

SIDE B

A

R D AMP_SS ASSY

B

C

D

E

F

CN4900

CN4800

CN4300

CN4400

CN4500

LF

IC4902

IC4803

IC4302

IC4403

IC

R

204

SC-91

1

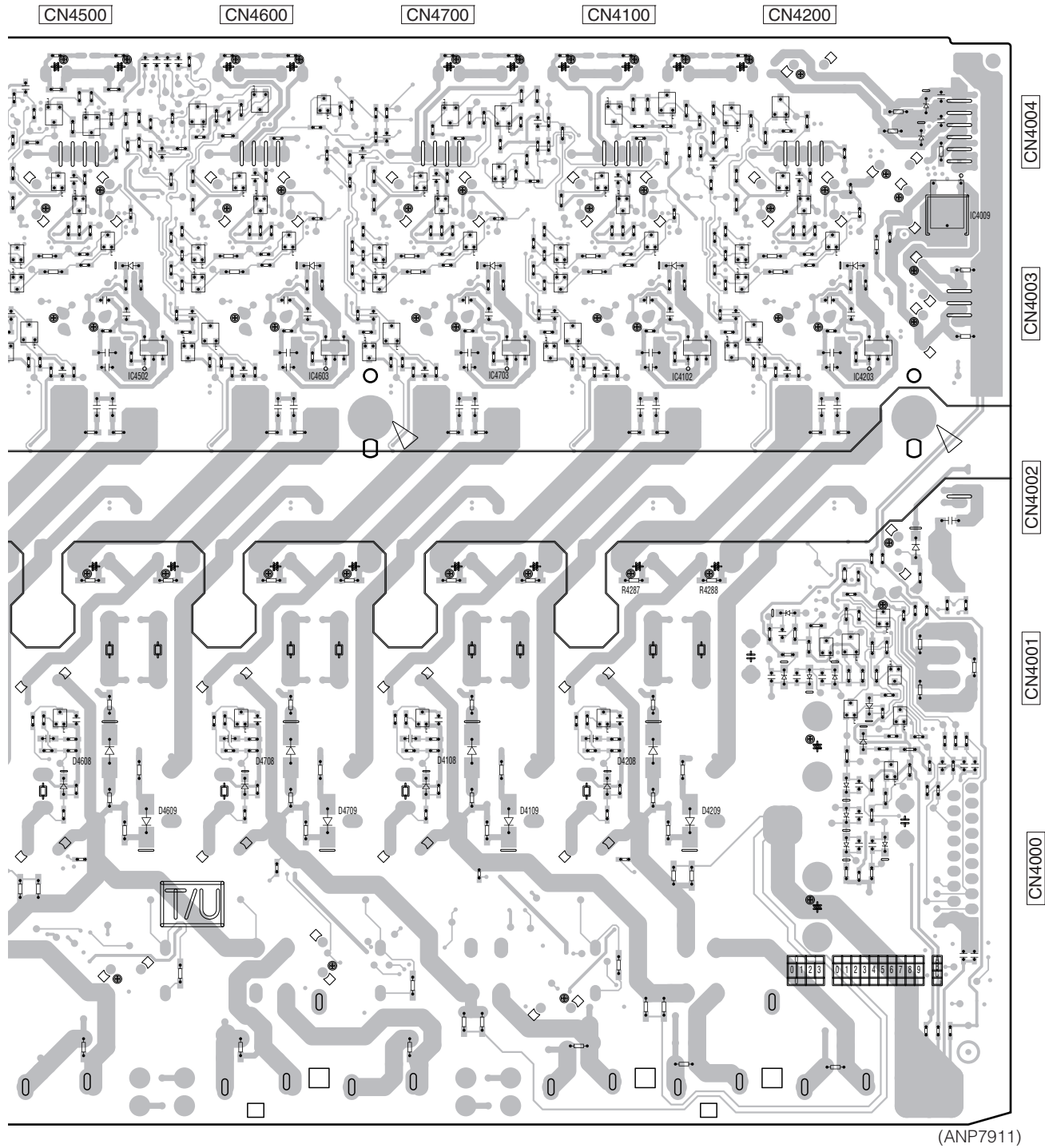
2

3

4

SIDE B

A



C

D

E

F

R

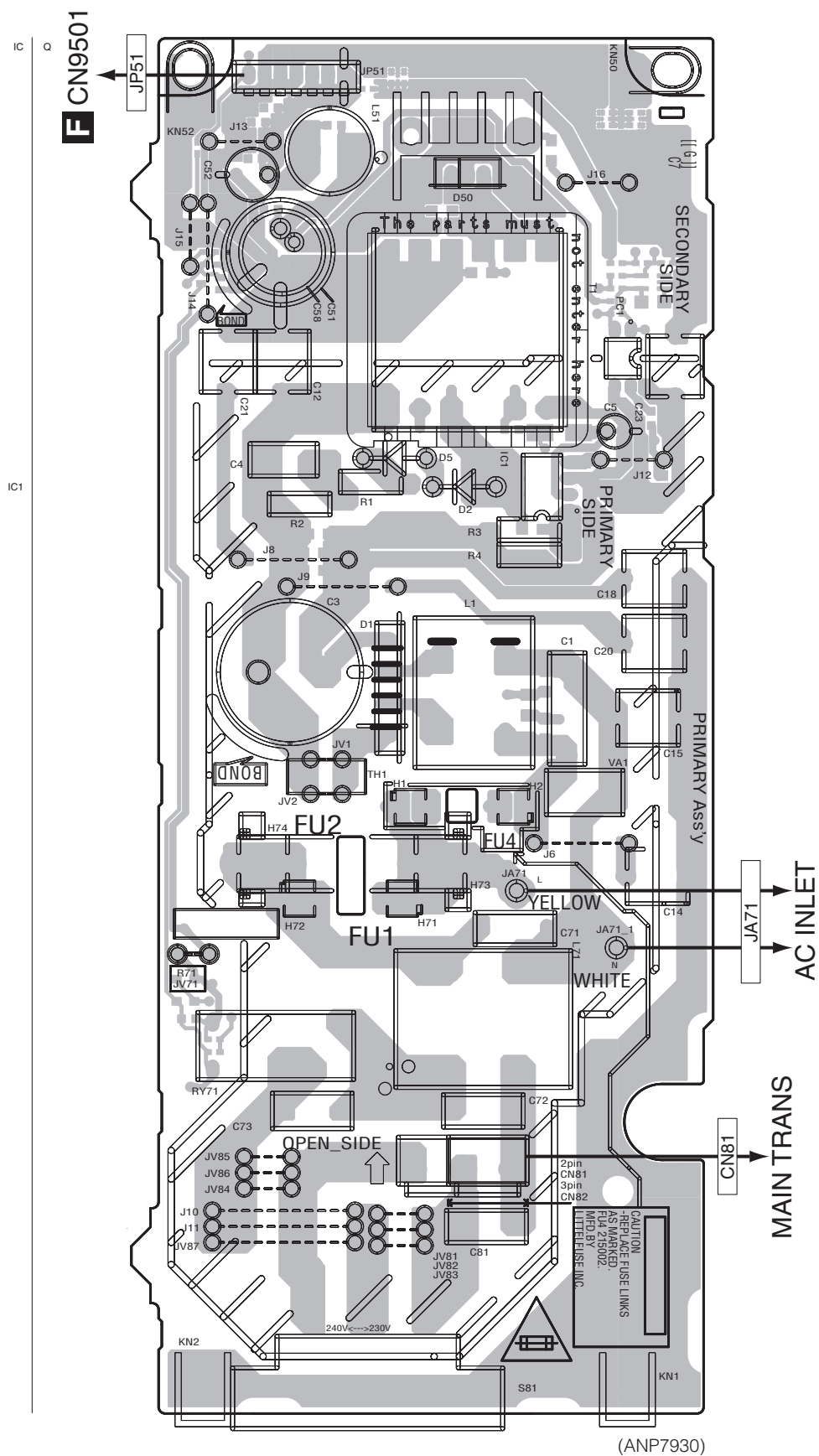
205

SC-91

SIDE A

SIDE A

S PRIMARY ASSY



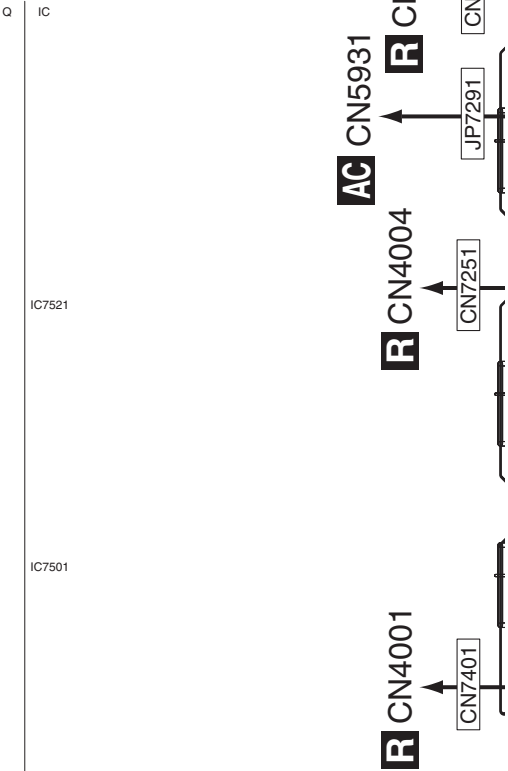
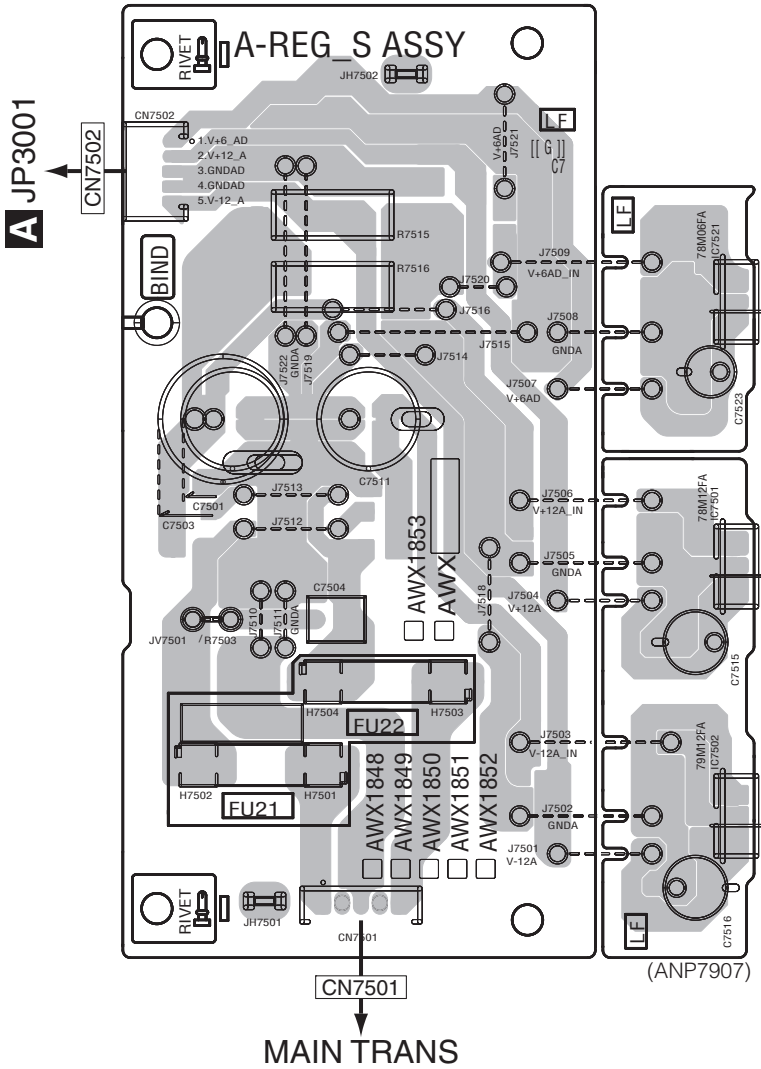
(ANP7930)

SC-91

11.13 A-REG_S ASSY and IR REG_S ASSY

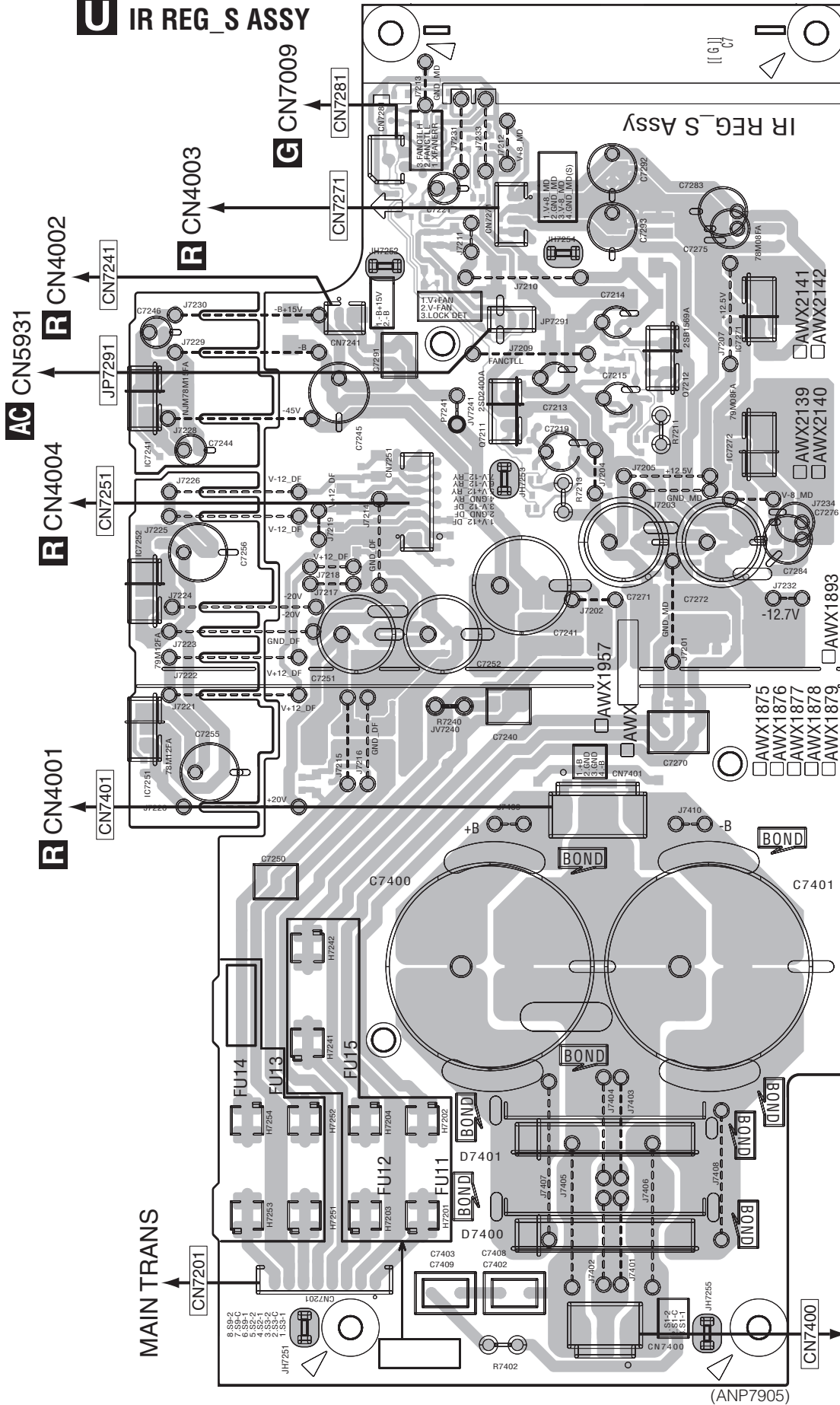
SIDE A

T A-REG_S ASSY



U IR REG_S ASSY

SIDE A



MAIN TRANS

MAIN TRANS

SC-91

U

SIDE B

A

B

C

D

E

F



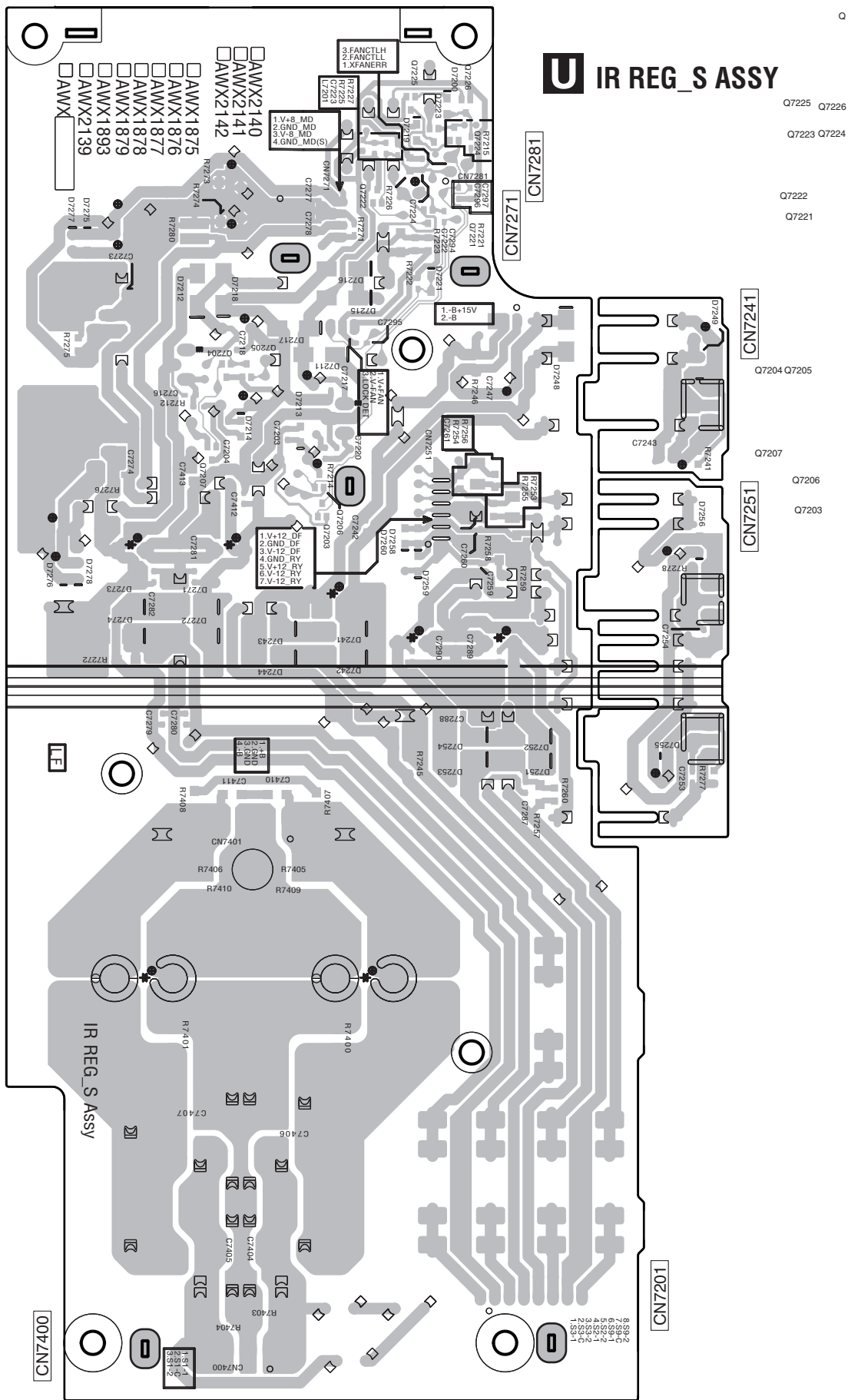
210

1

2

3

4



(ANP7905)

SC-91

SIDE A

V V-REG_S ASSY

SIDE A

Q

IC

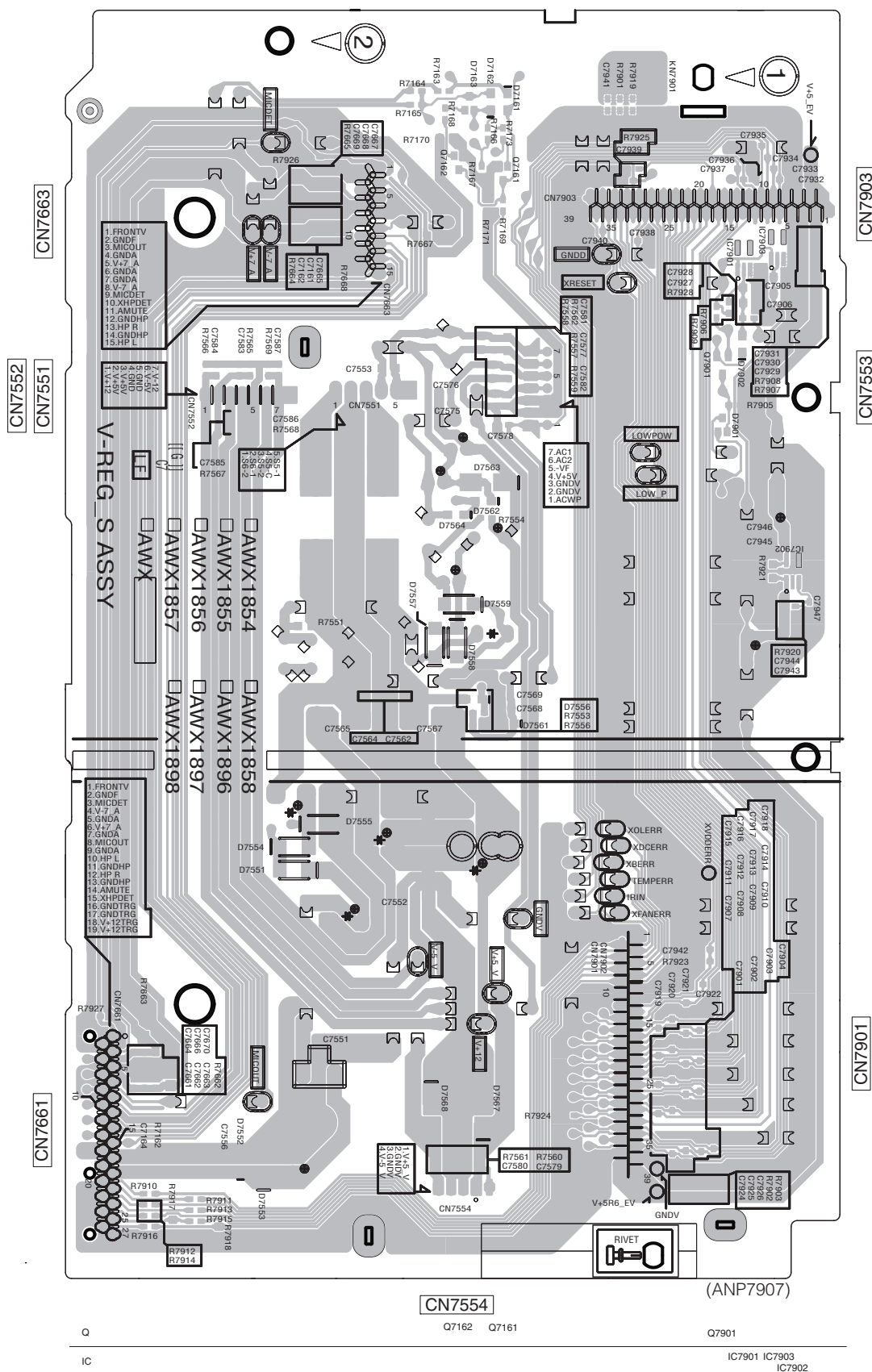
IC7551

SC-91

SIDE B

SIDE B

V V-REG_S ASSY



Q

Q7162 Q7161

Q7901

IC

IC7901 IC7903
IC7902

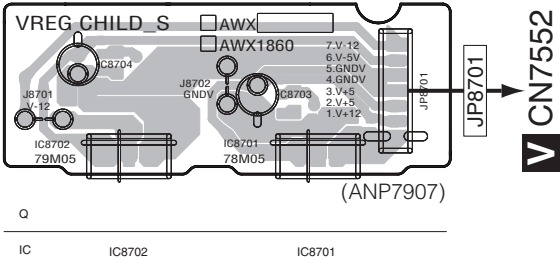
SC-91

11.15 VREG CHILD_S, CONNECT_S and A-DAC BRIDGE ASSYS

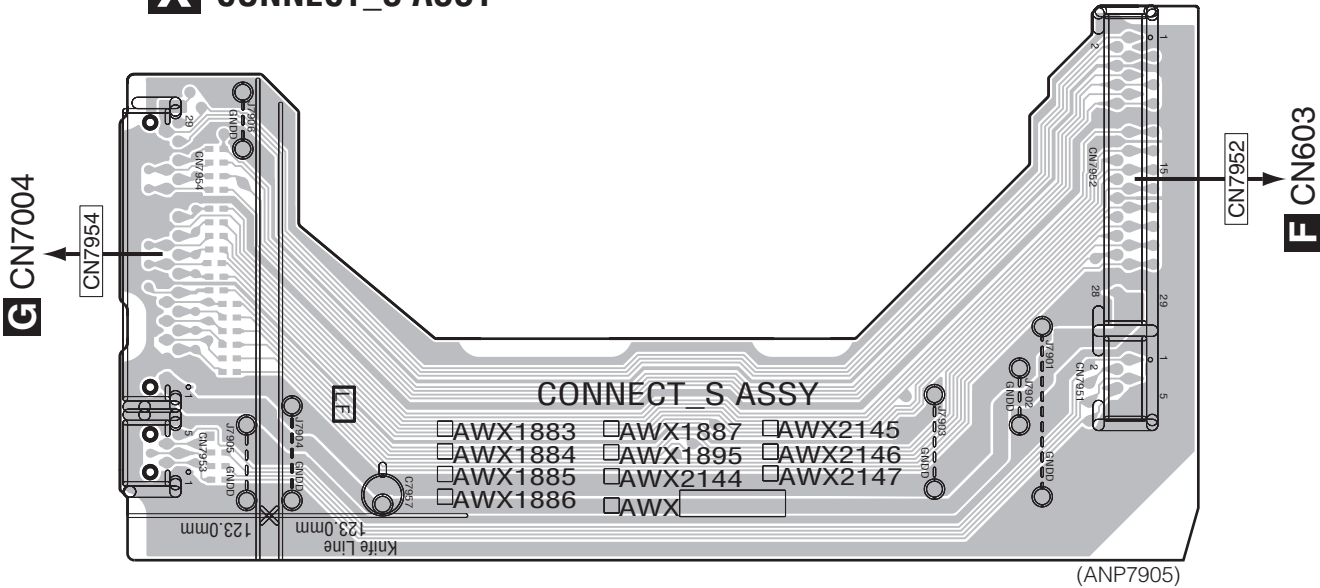
SIDE A

SIDE A

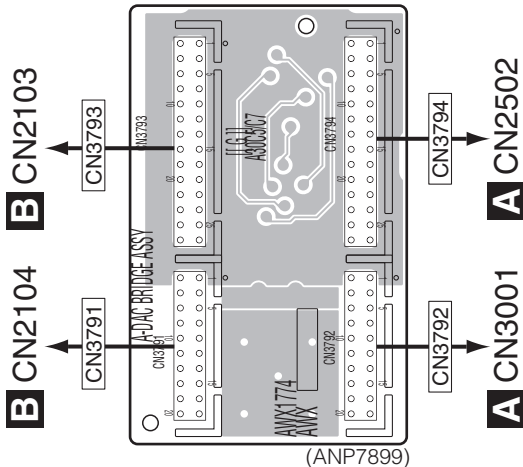
W VREG CHILD_S ASSY



X CONNECT_S ASSY



Y A-DAC BRIDGE ASSY



W X Y

W X Y

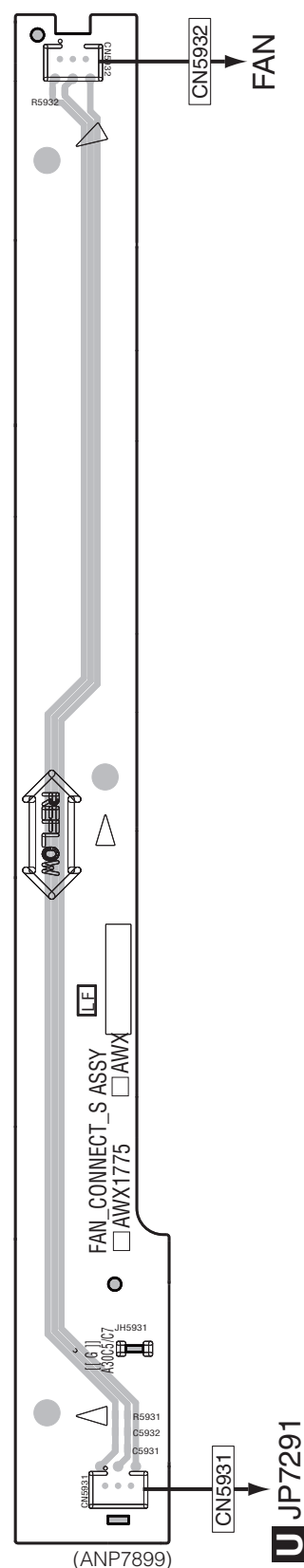
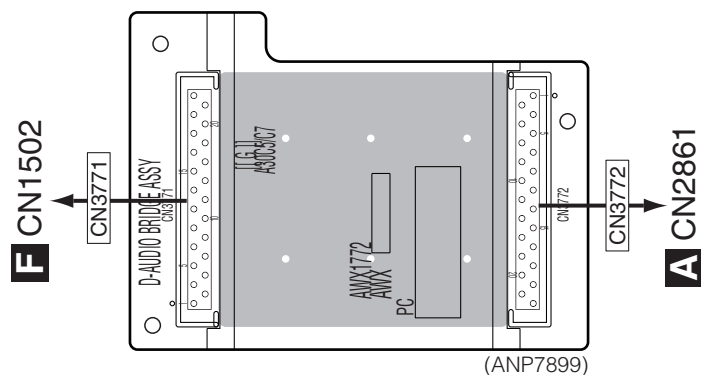
11.16 D-AUDIO BRIDGE, D-FILTER BRIDGE_S, PRE BRIDGE_S and FAN CONNECT ASSYS

SIDE A

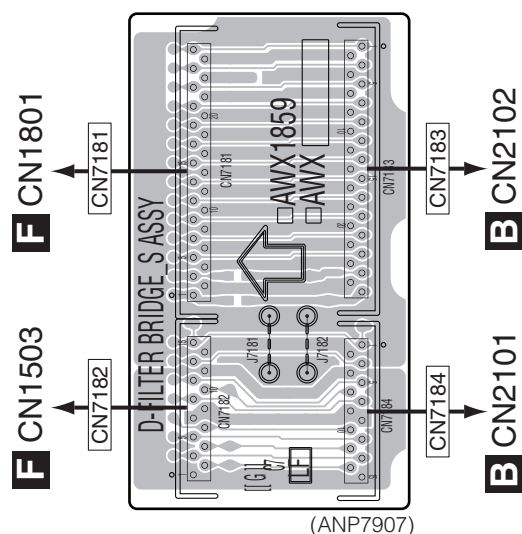
SIDE A

Z D-AUDIO BRIDGE ASSY

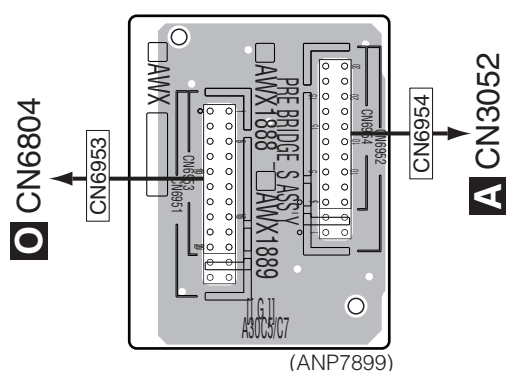
AC FAN CONNECT ASSY



AA D-FILTER BRIDGE S ASSY

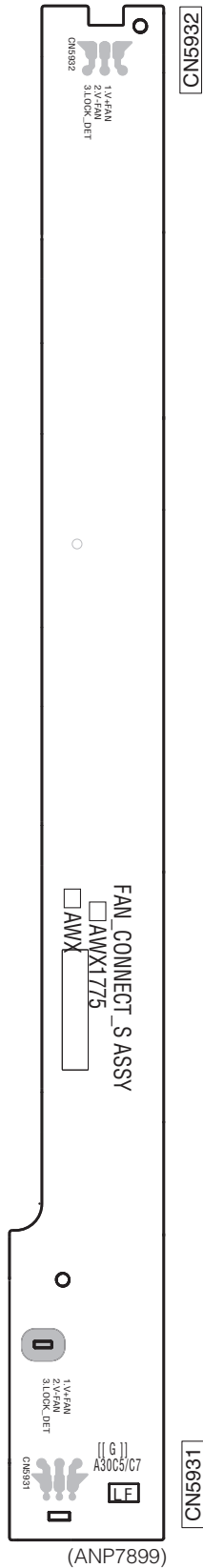


AB PRE BRIDGE S ASSY



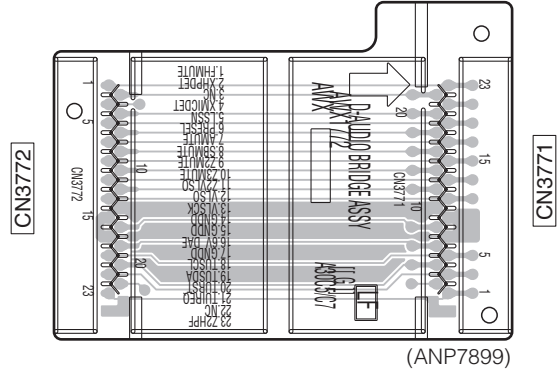
SIDE B

AC FAN CONNECT ASSY

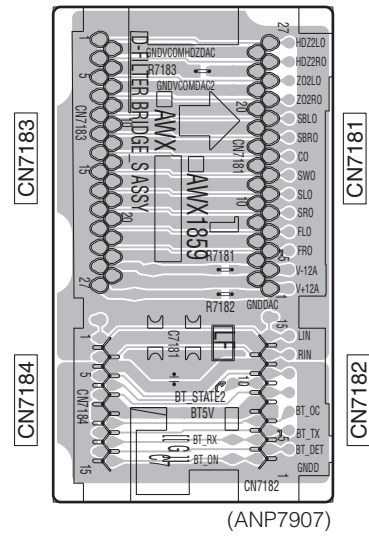


SIDE B

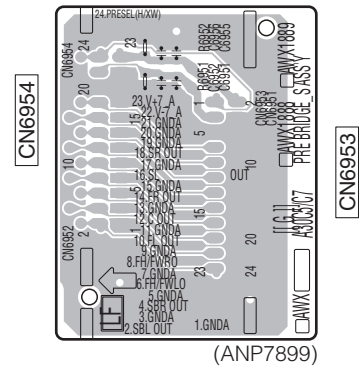
Z D-AUDIO BRIDGE ASSY



AA D-FILTER BRIDGE_S ASSY



AB PRE BRIDGE_S ASSY



Z AA AB AC

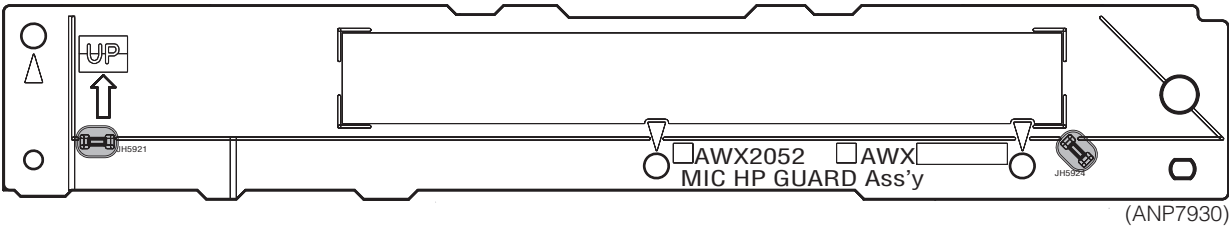
Z AA AB AC

11.17 MIC HP GUARD, BIND DM CABLE_S and P WIRE GUARD_S ASSYS

SIDE A

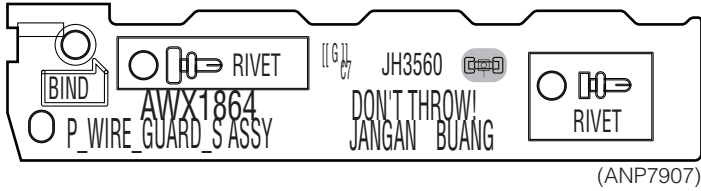
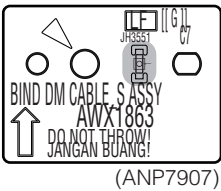
SIDE A

AD MIC HP GUARD ASSY



AE BIND DM CABLE_S ASSY

AF P WIRE GUARD_S ASSY

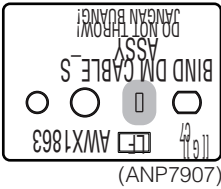


SIDE B

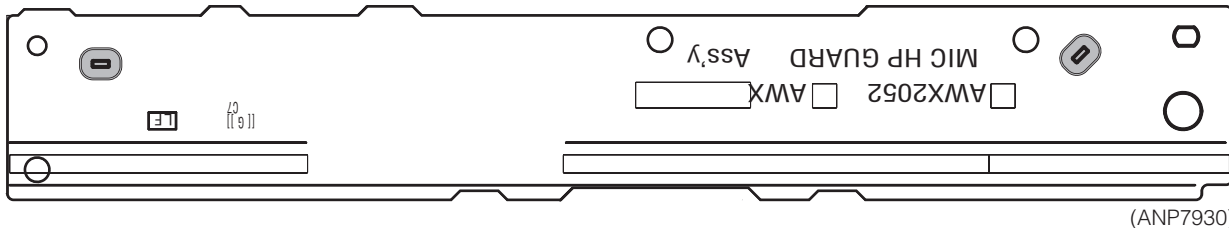
SIDE B

AE BIND DM CABLE_S ASSY

AF P WIRE GUARD_S ASSY



AD MIC HP GUARD ASSY



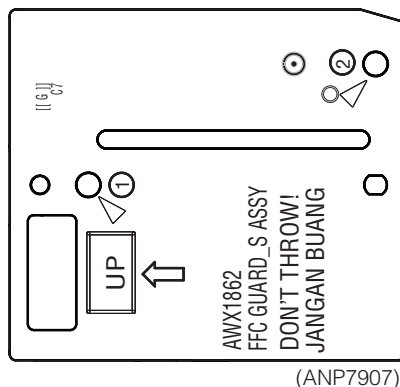
AD AE AF

AD AE AF

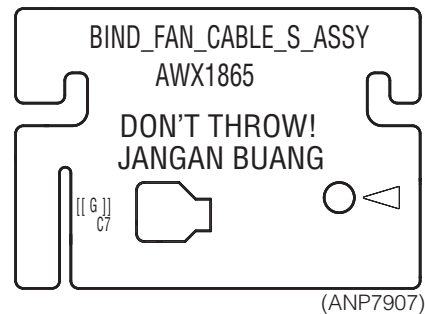
11.18 FFC GUARD_S, VREG GUARD and BINDFAN CABLE_S ASSYS

SIDE A

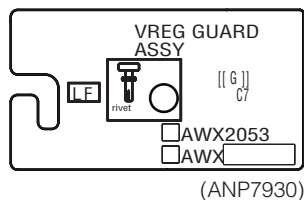
AG FFC GUARD_S ASSY

**SIDE A**

AI BINDFAN CABLE_S ASSY

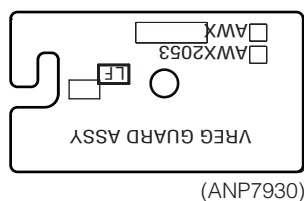


AH VREG GUARD ASSY



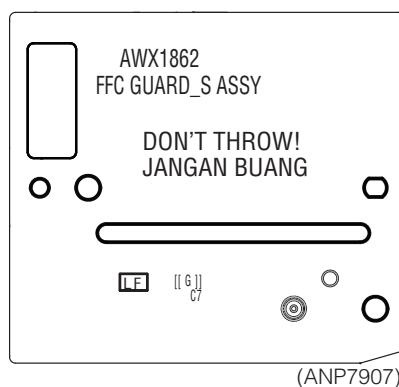
SIDE B

AH VREG GUARD ASSY

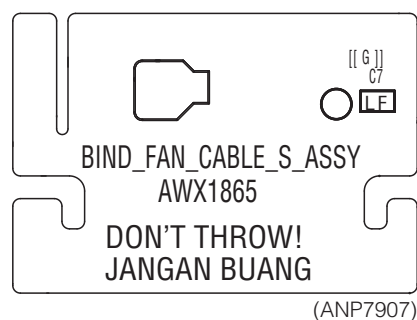


SIDE B

AG FFC GUARD_S ASSY



AI BINDFAN CABLE_S ASSY



AG AH AI

AG AH AI

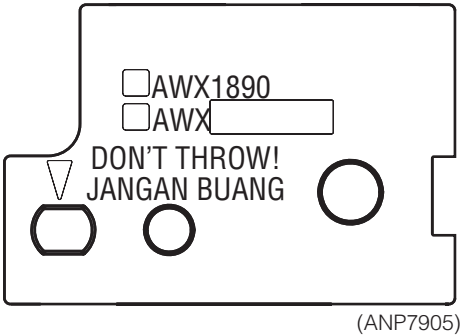
11.19 TRANS VREG STYL_S, PANEL GUARD and IR EDGE GUARD_S ASSYS

A

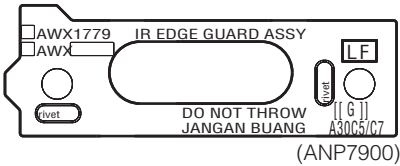
SIDE A

SIDE A

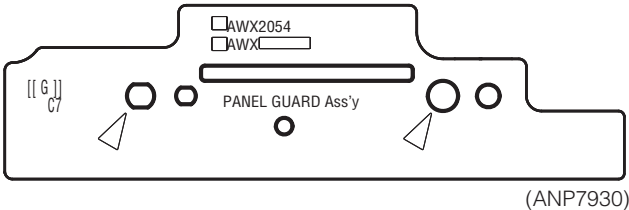
AJ TRANS VREG STYL_S ASSY



AL IR EDGE GUARD_S ASSY



AK PANEL GUARD ASSY

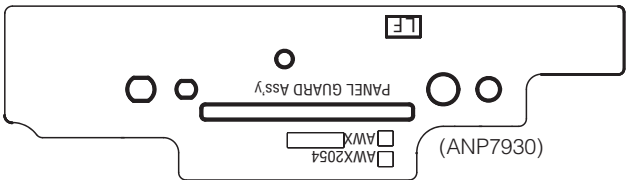


D

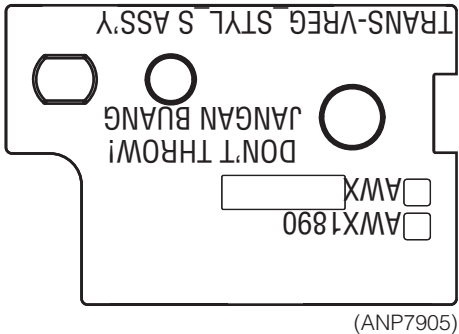
SIDE B

SIDE B

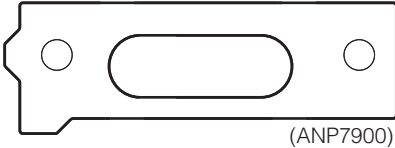
AK PANEL GUARD ASSY



AJ TRANS VREG STYL_S ASSY



AL IR EDGE GUARD_S ASSY



AJ

AK

AL

AJ

AK

AL

12. PCB PARTS LIST

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

● The Δ 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 $\rightarrow$ 56×10^1 $\rightarrow$ 561.....RD1/4PU $\begin{bmatrix} 5 & 6 & 1 \end{bmatrix}$ J

47 k Ω $\rightarrow$ 47×10^3 $\rightarrow$ 473.....RD1/4PU $\begin{bmatrix} 4 & 7 & 3 \end{bmatrix}$ J

0.5 Ω $\rightarrow$ R50.....RN2H $\begin{bmatrix} R & 5 & 0 \end{bmatrix}$ K

1 Ω $\rightarrow$ 1R0.....RS1P $\begin{bmatrix} 1 & R & 0 \end{bmatrix}$ K

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

5.62 k Ω $\rightarrow$ 562×10^1 $\rightarrow$ 5621.....RN1/4PC $\begin{bmatrix} 5 & 6 & 2 & 1 \end{bmatrix}$ F

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
LIST OF ASSEMBLIES							
		1..D AMP_SS ASSY	AWH7116				
NSP	1..	AUDIO COMPOSITE ASSY	AWR7287	NSP	1..	INTERFACE REG_S ASSY	AWR7305
	2..	AUDIO ASSY	AWX2075		2..	INTERFACE_S ASSY	AWX2138
	2..	COMPOSITE ASSY	AWX2084		2..	IR REG_S ASSY	AWX2142
	2..	D-AUDIO BRIDGE ASSY	AWX1772		2..	FILTER_S ASSY	AWX2143
	2..	A-DAC BRIDGE ASSY	AWX1774		2..	CONNECT_S ASSY	AWX2147
	2..	FAN CONNECT ASSY	AWX1775		2..	OPT COAX_S ASSY	AWX2148
	2..	PRE BRIDGE_S ASSY	AWX1889	NSP	2..	TRANS VREG STYL_S ASSY	AWX1890
NSP	1..	PRIM DISPLAY ASSY	AWM8416	NSP	1..	PRE POWER_S ASSY	AWR7315
	2..	DISPLAY ASSY	AWX2025		2..	A-REG_S ASSY	AWX2171
	2..	VOL ASSY	AWX2029		2..	V-REG_S ASSY	AWX2175
	2..	POWER SW ASSY	AWX2030		2..	D-FILTER BRIDGE_S ASSY	AWX1859
	2..	PRIMARY ASSY	AWX2037		2..	VREG CHILD_S ASSY	AWX2176
	2..	MIC HP ASSY	AWX2047		2..	USB RECT_S ASSY	AWX2177
	2..	ENCODER ASSY	AWX2051		2..	BIND DM CABLE_S ASSY	AWX1863
	2..	MIC HP GUARD ASSY	AWX2052	NSP	2..	P WIRE GUARD_S ASSY	AWX1864
NSP	2..	VREG GUARD ASSY	AWX2053	NSP	2..	FFC GUARD_S ASSY	AWX1862
NSP	2..	PANEL GUARD ASSY	AWX2054	NSP	2..	BINDFAN CABLE_S ASSY	AWX1865
	1..	COMPONENT ASSY	AWX2104		1..	IR INTERFACE_S ASSY	AWX1778
NSP	1..	IR BUFFER_S ASSY	AWM8430	NSP	2..	IR INTERFACE_S ASSY	AWX1778
	2..	IR_BUFFER_S ASSY	AWX2100		2..	IR EDGE GUARD_S ASSY	AWX1779
	2..	BUFFER GND ASSY	AWX1789		1..	DIGITAL MAIN_L ASSY	AWX2021
					2..	NETWORK MODULE	AXX7293
					1..	FRONT HDMI USB ASSY	AWX2114
					AM/FM Tuner Unit	AXX7282	

Mark	No.	Description	Part No.
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Mark	No.	Description	Part No.
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A

A AUDIO ASSY

SEMICONDUCTORS

IC 2501,3273	BD3473KS2
IC 2701	TC4066BFT
IC 2702,2751,2801	NJM4565MD
Q 2721	DTC115EUA
Q 2722	DTA124EUA

Q 3001	2SD2400A
Q 3002	2SB1569A
Q 3151,3274,6701	IMX25
Q 3901	2SC5712
Q 6706	DTC124EUA

D 2691,2692	DAN217U
D 3001,3002	DZ2J075M0
D 3902	DZ2J056M0

MISCELLANEOUS

JA 2501,2505 RCA JACK	AKB7246
JA 3101 RCA JACK	AKB7254
JA 6702 RCA JACK	AKB7247
CN2502 B TO B CONNECTOR	AKP7269
CN2503 CONNECTOR	9607S-15F

C

CN2861 B TO B 23PIN JACK	AKN7073
CN3001,3052 20P SOCKET	AKP7249
CN3902 CONNECTOR	9604S-09C
JH 5931 PCB BINDER	AEF7008
JP 3001 CONNECTOR ASSY	PF05PG-S20

RESISTORS

R 2567,2568	RS1/8SQ0R0J
R 2687	RS1/8SQ105J
R 2688	RS1/8SQ132J
R 2726,2727	RS1/8SQ100J
R 2819,2820	RS1/4SA180J

D

R 3031	RS1/8SQ475J
R 3032	RS1/8SQ182J
Other Resistors	RS1/10SR###J

CAPACITORS

C 2507,2508,2693,2694	CEAK101M16
C 2523,2524,2561,2562	CCSQCH101J50
C 2525,2526,2587,2588	CEAK220M50
C 2563,2564	CCSQCH220J50
C 2565,2566,2826,2827	CEAK100M50

E

C 2589,2590,2700	CCSQCH101J50
C 2609,2610,2707,2708	CEAK220M50
C 2683	CKSRYB103K50
C 2695,2696,2834,2835	CFHXSQ103J16
C 2697,3913,3915,3917	CCSRCH100D50

C 2698	CCSRCH470J50
C 2709,2710,2763,2764	CKSQYB103K50
C 2731,2732,2760,3952	CEAK220M50
C 2805,2806	CEAK1R0M50
C 2817,2818,2828,2836	CEAK101M16

F

C 2819,2820	CEAK471M16
C 2829	CCSRCH220J50
C 2830	CCSRCH560J50
C 2832,3914,3945	CCSRCH101J50
C 3001,3002	CEAK2R2M50

B FILTER_S ASSY

SEMICONDUCTORS

IC 2121,2202	NJM4565M
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MISCELLANEOUS

KN2102,2103 SCREW PLATE	VNE1948
CN2101 B TO B 15PIN JACK	AKN7069
CN2102 DUMMY CODE	AKN7151
CN2103 B TO B CONNECTOR	AKP7269
CN2104 20P SOCKET	AKP7249

RESISTORS

R 2141,2142,2371,2372	RS1/8SQ121J
Other Resistors	RS1/10SR###J

CAPACITORS

C 2009,2010,2040,2069	CEAK220M50
C 2099,2100	CEAK220M50
C 2121,2122,2332,2333	CEAK100M50
C 2123-2126,2334-2337	CCSRCH331J50
C 2127,2128,2338,2339	CCSRCH391J50
C 2129,2130,2340,2341	CEAK470M25
C 2133,2134,2344,2345	CKSQYB104K50
C 2165,2166	CEAK221M16

C FRONT HDMI USB ASSY

SEMICONDUCTORS

IC 8002	BD82065FVJ
IC 8003	PCA9517DGG
IC 8004	BD9329EFJ
Q 8004	2SC4081
D 8004	DZ2J056M0

MISCELLANEOUS

L 8001,8002 CHIP BEADS	ATL7010
L 8003 CHOKE COIL	CTH1446
F 8001 EMI FILTER	DTL1106
JA 8001 USB JACK	DKN1658
JA 8002 HDMI JACK	AKP7286

JA 8003 HDMI JACK	AKP7280
KN 8001,8002 EARTH TERMINAL	AKF7002
CN 8001 CONNECTOR	AKM1279
CN 8002 5P CONNECTOR	VKN1374
JH 8002 PCB BINDER	AEF7008

JP 8001 HOUSING	ADX7760
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Mark	No.	Description	Part No.
RESISTORS			
R	8005,8052,8053		RS1/8SQ0R0J
R	8009		RS1/10SR473J
R	8022,8100,8101		RS1/10SR0R0J
R	8033		RS1/8SQ105J
R	8044		RS1/16SS1801F
R	8045		RS1/16SS2200F
R	8046		RS1/16SS8201F
R	8055,8091		RS1/4SA105J
R	8092-8095		RS1/8SQ0R0J
	Other Resistors		RS1/16SS###J

CAPACITORS			
C	8001,8021		CCSSCH101J50
C	8003,8042,8043		CCSSCH331J50
C	8010		ACH7377
C	8012,8017		CKSQYB103K50
C	8014		CCSRCH331J50
C	8029,8037,8038		CKSRYB104K50
C	8030		CKSRYB103K50
C	8033,8044,8045		CCG1236
C	8035		CCSRCH390J50
C	8039		CCSRCH222J50
C	8041		CCSRCH221J50
C	8048		CEAK470M25
C	8051		CCSQCH331J50
C	8053		CCSRCH100D50
C	8079		CCSRCH120J50

D

USB RECT_S ASSY

SEMICONDUCTORS			
⚠	D	3651	D5SBA60
MISCELLANEOUS			
H	3651,3652	FUSE CLIP	AKR1004
NSP	J	3651 JMPER 12.5MM	JMPR12R5
NSP	J	3652,3653 JMPER 17.5MM	JMPR17R5
	KN	3651 EARTH TERMINAL	AKF7002
	CN	3652,3653 2P TOP POST	B2B-EH
	JH	3651-3654 PCB BINDER	AEF7008
RESISTORS			
R	3652		RS1/4SA105J
R	3655,3699		RS1/10SR0R0J
	Other Resistors		RS1/8SQ###J

CAPACITORS			
C	3651		CFTLA104J50
C	3659		RS1/8SQ105J
C	3661		CKSQYB104K50
C	3662		CCSQCH331J50
C	3665,3666		CEAK472M25

E

OPT COAX_S ASSY

SEMICONDUCTORS			
	IC	5401	TC7WHU04FU

Mark	No.	Description	Part No.
MISCELLANEOUS			
	JA	5401 OPT IN MODULE	AKS7008
	JA	5406 JACK	VKB1244
	KN	5401 SCREW PLATE	VNE1948
	CN	5401 9P PLUG	KM200IB9

RESISTORS			
	All Resistors		RS1/10SR###J

CAPACITORS			
C	5402,5412,5415		CKSQYB104K50
C	5405		CCSRCH101J50
C	5407		CEAK221M10
C	5409		CKSQYB103K50
C	5414,5431		CCSQCH331J50

F

DIGITAL MAIN_L ASSY

SEMICONDUCTORS			
	IC	101	R5S726B0D216FP
	IC	102,9001,9702	M12L64164A-5TG2Y
NSP	IC	103	AYW7407
	IC	105,1521,1812,9006	TC7SH08FUS1
	IC	107,608,609,612	TC74VHCT08AFKS1
⚠	IC	451	TPS65251RHA
	IC	603	PE7008A
	IC	604,1808	TC7WHU04FK
	IC	610,1509	74VHC126FT
	IC	611	74VHCT126AFT
	IC	613,1505,1601,1603	TC74VHC08FK
	IC	615	TC7SZ126FUS1
	IC	901-903	74LCX541FT
	IC	909	ADV7181CBSTZ
	IC	1201	AK5358AET
	IC	1202	ES9006S
	IC	1203-1206	NJM4565V
	IC	1501,1503,1515,1516	TC74VHC157FK
	IC	1502	TC74VHCT08AFKS1
	IC	1504,1511	ICS511MLF

	IC	1506	AK4118AEQ8
	IC	1602	MN864787
⚠	IC	1605,1615	AAT4610BIGV-1
	IC	1801,1802	AK4388ET
	IC	1804,9003,9207	TC74VHC08FK

	IC	1817,1818	TC74VHC157FK
	IC	9002,9703	D808K013DPTP456
NSP	IC	9004	AYW7409
	IC	9007	TC7WZU04FK
	IC	9008	TC7SZU04FUS1

	IC	9101	74VHC541FT
NSP	IC	9202	AYW7420
	IC	9206	H337S3959
	IC	9208	TC7SH08FUS1
⚠	IC	9403,9408	MM3542BF

⚠	IC	9406	MM3411A50N
⚠	IC	9407,9508	MM3529A25P
⚠	IC	9410,9523	S-1172B12-E6
⚠	IC	9411	MM3411A33N
⚠	IC	9502	S-13A1A00-E6

Mark	No.	Description	Part No.
A	⚠	IC 9505	MM3529A18P
	⚠	IC 9510	MM3529A33P
	⚠	IC 9511,9519	MM3529A50P
	⚠	IC 9515	S-1172B1C-U5
	⚠	IC 9518,9520	S-1172B13-E6
■		IC 9602	SIH9587CNUC-3
	⚠	IC 9603	BD82065FVJ
	NSP	IC 9704	AYW7411
		Q 601,701,1501,9603	DTC124EUA
		Q 906-908,1001,1506	2SA1576A
B		Q 909-911	2SC4081
		Q 912,1201	HN1K02FU
		Q 1502-1505	DTA124EUA
		Q 9001,9606,9608,9610	DTC114YUA
		Q 9607,9609,9611	DTC124EUA
	D	601	RB501VM-40
MISCELLANEOUS			
■	L	102,103,105,106 CHIP BEADS	VTL1129
	L	341,361,603,606 CHIP BEADS	VTL1129
	L	342 RESISTOR	RS1/16SS470J
	NSP	L 451 INDUCTOR	ATH7105
	NSP	L 452,9407 INDUCTOR	ATH7106
C	L	453,9410 INDUCTOR	ATH7107
	L	454-458,475,476 CHIP BEADS	ATL7010
	L	608,609,901,902 CHIP BEADS	VTL1129
	L	907,917,919,1201 CHIP BEADS	VTL1129
	L	918,1202,1601,9003 CHIP BEADS	ATL7010
■	L	921 INDUCTOR	CTF1547
	L	922-924 INDUCTOR	ATL7033
	L	925-927 INDUCTOR	ATL7035
	L	1501,1503,1505-1512 CHIP BEADS	VTL1129
	L	1521,1602,1604,1801 CHIP BEADS	VTL1129
D	L	1609-1612,1638-1641 CHOKE COIL	ATH7099
	L	1617 CHIP BEADS	VTL1126
	L	1618,1642 FERRITE BEAD	CTF1528
	L	1808,1810,1817,9005 CHIP BEADS	VTL1129
	L	9001,9704 RESISTOR	RS1/16SS0R0J
■	L	9002 RESISTOR	RS1/8SQ0R0J
	L	9004,9010,9703,9705 CHIP BEADS	VTL1128
	L	9006,9008,9013,9101 CHIP BEADS	VTL1129
	L	9203-9206,9402,9403 CHIP BEADS	ATL7010
	L	9211,9219,9220 CHIP BEADS	VTL1129
E	L	9215,9216 CHOKE COIL	ATH7099
	L	9217 FILTER	CTF1703
	L	9406,9408,9411,9412 CHIP BEADS	ATL7010
	L	9512,9525,9610,9612 CHIP BEADS	ATL7010
	L	9701,9702 CHIP BEADS	ATL7010
■	F	1603,1605,1606,1613 EMI FILTER	DTL1106
	F	1614 EMI FILTER	DTL1106
	JA	1601,1603,9601-9606 HDMI JACK	AKP7286
	JA	9202 RJ45 CONNECTOR	AKN7115
	JA	9620 HDMI JACK	AKP7286
F	KN	1801,9402 SCREW PLATE	VNE1948
	KN	9201 EARTH TERMINAL/VRT	ANG7840
	X	101 CRYSTAL TRANSDUCER	ASS7120
	X	602 CRYSTAL RESONATOR	ASS7126
	X	902 CRYSTAL	ASS7111

Mark	No.	Description	Part No.
X	1501	CRYSTAL OSCILLATOR	ASS7102
X	1602	CRYSTAL OSCILLATOR	ASS7123
X	9001	CRYSTAL(24MHZ)	DSS1203
CN	601	FFC/FPC CONNECTOR	VKN2111
CN	603	B TO B CONNECTOR	AKN7152
	CN 901,1502	B TO B 23PIN JACK	AKN7073
	CN 1503	B TO B 15PIN JACK	AKN7069
	CN 1801	DUMMY CODE	AKN7151
	CN 1803	9P SOCKET	KP200IB9L
	CN 9202	CONNECTOR	AKM1276
	CN 9203,9204	B TO B CONNECTOR	AKM7235
	CN 9501	CONNECTOR	B7B-EH
	CN 9502	CONNECTOR	AKM1274
	JH 9501,9503	PCB BINDER	AEF7008
RESISTORS			
R	101-104,108-110		RAB4CQ101J
R	117-120,9016,9017		RAB4CQ220J
R	124,132-135,189		RAB4CQ223J
R	400		RS1/16SS6800F
R	401		RS1/16SS4701F
R	402-405,409-418		RS1/8SQ0R0J
R	406,407,419,420		RS1/4SA0R0J
R	408		RS1/16SS2202F
R	421,477,478,1212		RS1/8SQ0R0J
R	453,456		RS1/16SS3002F
R	455,457,459		RS1/16SS4022F
R	458		RS1/16SS1272F
R	460,471,9437,9573		RS1/16SS2401F
R	469		RS1/16SS8202F
R	470		RS1/16SS7501F
R	600		RS1/10SR100J
R	608,609		RAB4CQ100J
R	611-614,913,914		RAB4CQ101J
R	872,1115,1322-1324		RS1/10SR0R0J
R	902-904,907,909		RAB4CQ473J
R	910,911,1041,1049		RAB4CQ330J
R	912,917,921,1047		RAB4CQ680J
R	918,919,923,9050		RAB4CQ101J
R	1004,1100-1105		RS1/16SS4700F
R	1005		RS1/16SS5100F
R	1048,1608,1611,1615		RAB4CQ680J
R	1206,1207		RS1/10SR103J
R	1214,1220-1227		RS1/8SQ1R0J
R	1231-1238,1529,1960		RS1/8SQ1R0J
R	1239,1242-1246,1282		RS1/10SR101J
R	1249,1252,1261,1264		RS1/8SQ331J
R	1250,1251,1262,1263		RS1/10SR821J
R	1253,1256,1265,1268		RS1/8SQ681J
R	1254,1255,1266,1267		RS1/10SR681J
R	1257,1260		RS1/8SQ102J
R	1258,1259		RS1/10SR331J
R	1269,1272,1273,1276		RS1/8SQ331J
R	1270,1271,1274,1275		RS1/10SR821J
R	1277,1280		RS1/8SQ331J
R	1278,1279		RS1/10SR821J
R	1281,1284,1293,1296		RS1/10SR301J
R	1283,1286,1287,1290		RS1/10SR101J
R	1285,1288,1297,1300		RS1/10SR560J
R	1289,1292		RS1/10SR391J
R	1291,1294,1295,1298		RS1/10SR101J

5			6			7			8		
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.		Mark	No.	Description
	R	1299,1302,1303,1306	RS1/10SR101J		C	165,1559,1631,1659	CCSSCH150J50				
	R	1301,1304,1305,1308	RS1/10SR301J		C	171,208,215,498	CKSSYB104K16				
	R	1307,1310,1311	RS1/10SR101J		C	173,212,343,363	CCSSCH101J50				
	R	1309,1312	RS1/10SR301J		C	176,590,624,648	CCSSCH470J50				A
	R	1328,1509,1527,1528	RS1/10SR0R0J		C	180,665,666	CCSSCH7R0D50				
	R	1330-1337	RS1/10SR390J		C	192,406,661,663	CCSSCH330J50				
	R	1534	RS1/10SR5R6J		C	201,649,734,750	CCSSCH221J50				
	R	1589,1942,9423	RS1/4SA0R0J		C	207,213,217,218	CKSSYB103K25				
	R	1622,1625,9011,9012	RAB4CQ680J		C	221,223,342,362	CKSSYB103K25				
	R	1651,1941,1943,1949	RS1/8SQ0R0J		C	222,341,404	CCSSCH100D50				
	R	1806	RS1/16SS1002F		C	402,463,464,483	CKSSYB103K25				
	R	1812,1952	RS1/10SR104J		C	407,9410,9435,9488	CCG1222				
	R	1907,1908,1937	RS1/10SR0R0J		C	408,453,499,601	CEVW101M16				
	R	1946-1948,1965,1966	RS1/10SR0R0J		C	410,411	RS1/10SR105J				B
	R	1950,1970,9401,9429	RS1/8SQ0R0J		C	412,1589,1590,9038	CCSRCH100D50				
	R	9007-9010,9217,9218	RAB4CQ330J		C	455,458,484-486	CCG1236				
	R	9018,9019,9043,9756	RAB4CQ680J		C	456,459,1286,1601	CEVW221M4				
	R	9024,9031,9761,9762	RAB4CQ220J		C	460-462	CKSRYB473K50				
	R	9244,9265,9266	RAB4CQ330J		C	465,1104-1106,1457	CCSSCH4R0C50				
	R	9408	RS1/16SS8201F		C	467,1095-1100,1690	CCSSCH5R0C50				
	R	9410	RS1/16SS1001F		C	474,9226,9228,9230	RS1/8SQ105J				
	R	9418,9447,9641	RS1/8SQ105J		C	477,479,1241-1256	CCSRCH222J50				
	R	9430,9440,9457	RS1/8SQ0R0J		C	481,9302	CKSSYB223K16				
	R	9446	RS1/10SR224J		C	482	CKSSYB333K16				
	R	9448	RS1/8SQ1R0J		C	487	CCSRCH102J50				C
	R	9450	RS1/8SQ184J		C	489-491,604,608	CCSSCH100D50				
	R	9459-9462,9466-9468	RS1/8SQ0R0J		C	496,506-508,9429	CCG1236				
	R	9463-9465,9471,9472	RS1/4SA0R0J		C	602,703,1025,1031	CEVW101M16				
	R	9473,9484,9493-9495	RS1/10SR0R0J		C	612,616,618,628	CKSSYB103K25				
	R	9474,9475,9491,9492	RS1/4SA0R0J		C	613,647	CCSSCH151J50				
	R	9476,9477,9479-9483	RS1/8SQ0R0J		C	617,625,626,638	CKSSYB104K16				
	R	9485	RS1/8SQ225J		C	619,627,639,650	CCSSCH101J50				
	R	9486	RS1/8SQ101J		C	623	CCSSCH560J50				
	R	9489,9490,9496-9500	RS1/8SQ0R0J		C	633,636,644,653	CKSSYB103K25				
	R	9503-9505,9509,9510	RS1/8SQ0R0J		C	634,640,679,740	CCSSCH100D50				
	R	9525	RS1/4SA105J		C	641,642,645,662	CKSSYB104K16				D
	R	9569	RS1/16SS6201F		C	656	CCSSCH680J50				
	R	9570	RS1/16SS1301F		C	659,660,669,671	CCSSCH101J50				
	R	9606,9609	RS1/8SQ0R0J		C	664,667,670,680	CKSSYB103K25				
	R	9752-9755	RAB4CQ330J		C	675,713,962,964	CKSSYB104K16				
	R	9757,9763,9764,9781	RAB4CQ680J		C	682,705,708,735	CCSSCH101J50				
	R	9766,9770	RAB4CQ220J		C	685,903,907,909	CKSSYB103K25				
	R	9785	RAB4CQ101J		C	717,718,908,1580	CCSSCH470J50				
	Other Resistors		RS1/16SS###J		C	739,741,1479,9055	CCSSCH8R0D50				
					C	742,745,746,755	CCSSCH100D50				
CAPACITORS											
	C	101,104,107,116	CEVW101M16		C	749,751,752,902	CCSSCH101J50				E
	C	105,157,193,206	CCSSCH100D50		C	753,756,1076,1583	CCSSCH330J50				
	C	109,148,186,187	CCSSCH8R0D50		C	904,905,1537,1671	CCSSCH220J50				
	C	117,119,126,162	CCSSCH101J50		C	910,1027,1033,1079	CCSSCH101J50				
	C	118,1721,1725,1727	DCH1246		C	1001,1048,1060,1063	DCH1201				
	C	120,124,130,133	CKSSYB103K25		C	1010,1043,1045,1054	CKSSYB103K25				
	C	122,127,136,137	CKSSYB104K16		C	1024,1107-1109,1720	CCSSCH180J50				
	C	129,160,1028,1036	CCSSCH270J50		C	1032,1034,1038,1047	CKSSYB104K16				
	C	132,196,1468,9037	CCSSCH120J50		C	1037,1046,1070,1470	CCSSCH331J50				
	C	138,146,153,155	CKSSYB103K25		C	1040,1536,1560,1670	CCSSCH221J50				
	C	150,152,159,166	CKSSYB104K16		C	1042,1064,1075,1113	CEVW101M16				
	C	151,470,9061,9777	CCSSCH390J50		C	1044	CKSSYB823K10				F
	C	154,194,361,621	CCSSCH220J50		C	1049,9620	CCSSCH102J50				
	C	156,961,1035,1069	CCSSCH471J50		C	1050-1052,1055,1057	CKSSYB104K16				
	C	158,163,178,205	CKSSYB103K25		C	1056,1458,1459,1475	CKSSYB103K25				

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
A	C	1059,1061,1067,1068	CKSSYB104K16	C	1885,1889	CEVW220M6R3	
	C	1062,1088,1201,1207	CCSSCH100D50	C	1898,9003,9054,9099	CCSSCH330J50	
	C	1065,1074,1089-1091	DCH1201	C	1903	CCSSCH471J50	
	C	1071,1072,1092-1094	CKSSYB104K16	C	1907,1983	CCSRCH221J50	
	C	1084,1456,1460,1471	CCSSCH101J50	C	1924,9009,9020,9022	CCSSCH100D50	
B	C	1101-1103,1478,1614	CCSSCH7R0D50	C	9002,9233,9249,9315	CCSSCH7R0D50	
	C	1110-1112,1203,1211	CKSSYB104K16	C	9006,9694	DCH1201	
	C	1204,1206,1848,1867	CEVW220M6R3	C	9011,9013,9016,9021	CKSSYB103K25	
	C	1212,1217,1660,1860	CEVW101M16	C	9023,9025,9036	CKSSYB104K16	
	C	1222,1224,1229,1230	CKSRYP103K50	C	9026,9032,9046,9053	CCSSCH101J50	
C	C	1227,1233,1901,1904	CCSRCH331J50	C	9028,9031,9035,9040	CKSSYB103K25	
	C	1234,9075,9332,9430	CKSRYP104K50	C	9029,9232,9314,9436	CEVW221M4	
	C	1235,1281,1287,1621	CKSRYP103K50	C	9034,9041,9065,9074	CCSSCH100D50	
	C	1237,1238	CCSRCH101J50	C	9039,9441,9538,9813	CCSRCH222J50	
	C	1257-1260,1263-1272	CCSRCH821J50	C	9042-9045,9051,9058	CKSSYB104K16	
D	C	1261,1262	CCSRCH681J50	C	9047,9048,9050,9052	CKSSYB103K25	
	C	1464,1837,1838,1893	CCSSCH471J50	C	9057,9064,9077,9101	CCSSCH101J50	
	C	1466,1467,1508,1551	CKSSYB104K16	C	9059,9066,9068,9073	CKSSYB104K16	
	C	1474,1511,1602,1708	CCSSCH101J50	C	9060,9063,9069,9084	CKSSYB103K25	
	C	1477,1484,1486,1505	CKSSYB103K25	C	9080,9088,9335,9337	CKSSYB104K16	
E	C	1485,1502,1514,1518	CCSSCH100D50	C	9085,9235,9647,9758	CCSSCH470J50	
	C	1487	CCSSCH271J50	C	9089,9094,9096,9098	CKSSYB103K25	
	C	1509	CEAK102M16	C	9103,9126,9229,9313	CCSSCH100D50	
	C	1521,1535,1556,1567	CKSSYB103K25	C	9110,9227,9338,9434	CCSSCH101J50	
	C	1538,1539,9027,9636	CCSSCH270J50	C	9115	CCSRCH182J50	
F	C	1558,1577,1586,1625	CKSSYB104K16	C	9132,9147,9333,9409	CKSSYB103K25	
	C	1565,1569,1570,1576	CCSSCH100D50	C	9149,9231,9301,9744	CCSSCH220J50	
	C	1566	CEVW470M4	C	9234,9418,9557	RS1/8SQ105J	
	C	1572,1581,1593,1624	CKSSYB103K25	C	9246,9311	CEVW471M10	
	C	1582	CEVW1R0M50	C	9324,9325	CKSSYB222K50	
G	C	1585	CCSSCH181J50	C	9346,9402,9406,9431	CCSSCH100D50	
	C	1587,1677,1702,1739	CCSSCH100D50	C	9405	CCG1325	
	C	1588	CEVW470M6R3	C	9408,9485,9782	CCSSCH330J50	
	C	1595,1620,1637,1664	CCSSCH330J50	C	9426,9427,9463,9528	CKSSYB103K25	
	C	1606,1704,9117	CKSQYB103K50	C	9432,9438,9445,9492	CCSSCH100D50	
H	C	1609,1716,9784	CCSSCH4R0C50	C	9437,9461,9516,9581	CCSSCH101J50	
	C	1610,1630,1655,9005	CEVW221M4	C	9442	CKSSYB153K16	
	C	1611,1633,1656,1695	CKSQYB105K25	C	9444,9451,9514,9521	CCG1236	
	C	1627,1666,1688,1700	DCH1263	C	9450,9527,9626,9635	CEVW221M4	
	C	1638	CCH1792	C	9459,9460,9465,9468	CKSQYB105K25	
I	C	1642,1662,1667,1673	CKSSYB104K16	C	9462	CKSRYP223K50	
	C	1663,1731,9015,9056	CCSSCH470J50	C	9470,9517,9519,9550	CKSQYB105K25	
	C	1665,1669,1679,1681	CKSSYB103K25	C	9472,9558	CCSRCH330J50	
	C	1683,1710,9014,9018	CKSSYB104K16	C	9473,9477	CKSRYP103K50	
	C	1684,1685,1689,1691	CKSSYB103K25	C	9489,9498,9507,9553	CEVW101M16	
J	C	1692,1711,9049,9092	CCSSCH220J50	C	9495,9621,9724,9752	CCSSCH100D50	
	C	1693,1827,1831,1849	CKSRYP103K50	C	9496,9552,9634	CCG1222	
	C	1694,9070,9081,9218	CCSSCH150J50	C	9512	CKSSYB472K50	
	C	1696,1714,9403,9416	CKSQYB105K25	C	9513	CCSSCH7R0D50	
	C	1699,1703,1706,1713	CKSSYB103K25	C	9529,9799	CKSRYP104K50	
K	C	1705	CCSRCH272J50	C	9537	CCG1236	
	C	1718,1735,1750,1798	CKSSYB103K25	C	9545,9546	CEVW221M10	
	C	1728,1839,9030,9697	DCH1246	C	9555,9563,9565,9582	CKSQYB105K25	
	C	1799,1915,1916,1923	CCSSCH100D50	C	9559,9574,9642,9747	CEVW101M16	
	C	1801,1828,1845,1864	CKSSYB103K25	C	9568	CCSRCH331J50	
L	C	1803,1920,9019,9024	CCSSCH101J50	C	9590	CKSQYB105K25	
	C	1826,1830	CCSRCH471J50	C	9602,9616,9617,9660	CCSSCH101J50	
	C	1861,9401,9411,9466	CEVW101M16	C	9606,9608,9672,9674	CCSSCH331J50	
	C	1870,1871,1891,1892	CKSSYB472K50	C	9629	CCSSCH180J50	
	C	1884,1906,9250,9428	CKSRYP103K50	C	9632,9659,9669,9673	CKSSYB104K16	

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	C 9641		CKSSYB473K16				
	C 9661,9663,9665		CKSSYB103K25				
	C 9662		CCSSCH221J50				
	C 9666,9670,9678,9691		CCSSCH101J50				
	C 9688		CCSSCH331J50				
	C 9692,9696,9721,9745		CKSSYB104K16				
	C 9700,9773,9910,9912		DCH1246				
	C 9712-9714,9716,9719		CKSSYB103K25				
	C 9726		CCSSCH120J50				
	C 9728,9753,9756,9760		CKSSYB103K25				
	C 9730		CCSSCH5R0C50				
	C 9748		CEVW101M16				
	C 9750		RS1/16SS105J				
	C 9757,9762-9764,9766		CKSSYB104K16				
	C 9761		CCSRCH152J50				
	C 9765,9822		CCSSCH470J50				
	C 9768,9779,9785,9788		CKSSYB104K16				
	C 9769,9775,9781,9787		CCSSCH101J50				
	C 9770		CCSSCH270J50				
	C 9771,9774,9776,9780		CKSSYB103K25				
	C 9772		CEVW221M4				
	C 9783		CCSSCH8R0D50				
	C 9789,9793,9796,9797		CKSSYB103K25				
	C 9790,9794,9805,9812		CKSSYB104K16				
	C 9791		CCSSCH820J50				
	C 9795,9810,9819		CCSSCH101J50				
	C 9798		CCSSCH220J50				
	C 9804,9811,9815,9818		CKSSYB103K25				
	C 9814,9816,9820		CCSSCH100D50				
	C 9821		CKSSYB104K16				
	C 9908		CKSSYB103K25				

G INTERFACE_S ASSY

SEMICONDUCTORS

Q 7001-7003,7013	DTC124EUA
Q 7005	2SA1576A
Q 7008,7010	2SA1036K
Q 7014	DTA124EUA
Q 7025-7028	2SD2704K
D 7005	DAN202U
D 7009	RB501VM-40
D 7024	1SS355

MISCELLANEOUS

L 7001 CHIP SOLID INDUCTOR	ATL7002
L 7005,7006 CHIP SOLID INDUCTOR	QTL1013
JA 7001,7005 JACK	VKB1243
JA 7003 JACK	AKN-209
KN 7001 SCREW PLATE	VNE1948
KN 7002,7004-7006 EARTH TERMINAL	AKF7002
CN 7004 B TO B CONNECTOR	AKM7222
CN 7006 CONNECTOR	9604S-19C
CN 7009 CONNECTOR	CKS3368
CN 7010 CONNECTOR	9604S-15C
CN 7012 B TO B CONNECTOR	AKM7221
JH 7003,7004 PCB BINDER	AEF7008

RESISTORS

R 7107	RS1/8SQ0R0J
R 7108	RS1/8SQ105J
R 7110,7111	RS1/4SA105J
R 7139,7140	RS1/4SA150J
R 7145-7148,7150	RS1/4SA0R0J
Other Resistors	RS1/10SR###J

CAPACITORS

C 7002-7005,7134	CCSRCH100D50
C 7007	CKSRYB104K50
C 7013,7015,7016	CKSQYB103K50
C 7022	CKSRYB103K50
C 7023	CKSRYB153K50
C 7101,7143	CCSRCH101J50
C 7108	CEAK470M25
C 7112	CEAK221M16
C 7113	CCSRCH331J50
C 7135	CCSRCH102J50

H COMPONENT ASSY

SEMICONDUCTORS

IC 8301	NJW1328FH2
IC 8601	HIN202EIBNZ
IC 8601	HIN202EIBNZS1
Q 8603	2SC4081
Q 8604	2SA1576A
Q 8605	DTC114EUA
Q 8606	HN1K02FU
D 8601,8605	1SS355

MISCELLANEOUS

JA 8301 3P PIN JACK NI	AKB7227	D
JA 8601 9P D-SUB SOCKET	AKP7256	
CN 8301 B TO B 23PIN PLUG	AKM7107	
CN 8302 20P PLUG	AKM7171	
JP 8402 CONNECTOR ASS'Y	PF04PG-S10	

RESISTORS

R 8301-8303	RS1/10SR75R0F
R 8557	RS1/8SQ0R0J
Other Resistors	RS1/10SR###J

CAPACITORS

C 8301,8383,8613	CEAK101M16	E
C 8305,8313,8326,8341	CEAK1R0M50	
C 8342,8536,8538,8543	CEAK1R0M50	
C 8358,8359	CCSRCH220J50	
C 8360,8541,8601	CKSRYB103K50	
C 8376,8377,8379,8611	CCSRCH100D50	
C 8378	CCSRCH471J50	
C 8381	CKSRYB105K16	
C 8528-8535,8540,8542	CKSRYB104K50	
C 8537,8539,8610,8618	CCSRCH331J50	
C 8544-8547,8602	CKSRYB104K50	
C 8548,8549	CEAK102M6R3	F
C 8604-8606	CKSRYB104K50	
C 8612,8617	CCSRCH100D50	
C 8614	CCSRCH101J50	

Mark No. Description Part No.

Mark No. Description Part No.

K DISPLAY ASSY

SEMICONDUCTORS

NSP	IC 6001	R5F100MHAF
⚠	IC 6002	NJM2878F3-33
	IC 6003	PD8198A
	Q 6001	RU1C001UN
	Q 6002-6010,6012	DTC124EUA
	Q 6011	DTA124EUA
	Q 6013	2SA1576A
	Q 6014	2SC4081
	D 6001	RB751V-40
	D 6002	DAN217U
	D 6006,6008,6010,6012	SLR343BC4T
	D 6014	SLR343BC4T
	D 6017	DZ2J056M0

MISCELLANEOUS

L 6001	CHIP SOLID INDUCTOR	ATL7002
KN 6001	FL HOLDER(FE)	VNF1096
V 6001	FL TUBE DISPLAY	AAV7115
S 6001-6019	SWITCH	ASG7029
CN 6001	39P CONNECTOR	VKN2098
CN 6003	5P CONNECTOR	VKN1820
JH 6002	4P CABLE HOLDER	51048-0400
JH 6003,6004	3P CABLE HOLDER	51048-0300
JP 6001	HOUSING	ADX7776
JP 6002	JUMPER WIRE	D20PYY0410E
JP 6003,6004	JUMPER WIRE	D20PYY0310E
NSP	U 6001 IC	GP1UE274XKC4

RESISTORS

R 6304	RS1/8SQ105J
Other Resistors	RS1/10SR###J

CAPACITORS

C 6001,6006,6010,6024	CKSRYB103K50
C 6004	CKSRYB474K16
C 6005,6045,6070-6073	CCSRCH471J50
C 6007	CCSRCH101J50
C 6008,6011,6026,6044	CKSRYB104K50
C 6009	CKSRYB472K50
C 6012	CKSRYB473K50
C 6013,6014,6037,6043	CKSQYB103K50
C 6016,6017	CKSQYB105K25
C 6018	CCSQCH331J50
C 6020,6039	CKSQYB104K50
C 6022,6055,6058,6063	CCSRCH470J50
C 6025,6030,6089,6090	CKSRYB103K50
C 6027,6048	CEAK221M16
C 6032,6035,6047,6092	CCSRCH100D50
C 6034,6038,6042	CCSRCH331J50
C 6046	CKSQYB473K50
C 6051,6053	CEAK101M16
C 6054,6056,6057,6074	CCSRCH221J50
C 6059-6061,6064,6067	CCSRCH331J50
C 6066	CEAK470M50
C 6068	CKSQYB103K50
C 6075-6082,6084-6086	CCSRCH471J50
C 6083,6091,6098	CCSRCH331J50
C 6093	CCSRCK2R0C50

I COMPOSITE ASSY

MISCELLANEOUS

JA 3601	1P PIN JACK	AKB7231
JA 3602	RCA JACK	AKB7252
CN 3601	20P SOCKET	AKP7249

RESISTORS

R 3630,3632	RS1/10SR75R0F
R 3633,3634	RS1/10SR68R0F
Other Resistors	RS1/10SR###J

CAPACITORS

C 3607,3620	CCSRCH181J50
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J MIC HP ASSY

SEMICONDUCTORS

IC 3471	NJM4565MD
Q 3401	DTC143EUA
Q 3451	DTC124EUA
Q 3452-3455	2SD2704K
D 3402	SLR343BC4T
D 3473-3475	DZ2J051M0

MISCELLANEOUS

JA 3471	JACK	VKB1243
JA 3476	HEADPHONE JACK	XKB3066
KN 3471,3472	EARTH TERMINAL	AKF7002
S 3401	SWITCH	VSG1024
CN 3401	4P JUMPER CONNECTOR	52147-0410
CN 3472	CONNECTOR	9604S-15C

RESISTORS

R 3455,3485	RS1/8SQ330J
R 3456,3459	RS1/4SAOR0J
R 3498,3499	RS1/8SQ100J
Other Resistors	RS1/10SR###J

CAPACITORS

C 3401	CCSRCH221J50
C 3402	CKSRYB104K50
C 3451,3452	CKSQYB822K50
C 3457,3479	CCSRCH101J50
C 3460	CCG1236
C 3473	CCSQCH471J50
C 3475	CCSQCH101J50
C 3476,3477	CCSRCH330J50
C 3478	CEAK100M50
C 3480	DCH1263
C 3483,3484	CEAK101M16
C 3485	CKSQYB105K25
C 3486	CKSQYB103K50
C 3488	CKSQYB223K50
C 3490	CCSRCH331J50
C 3491	CCSRCH470J50
C 3496	CKSRYB103K50

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6

7

8

Mark

No.

Description

Part No.

C

6094,6096,6301,6302

CCSRCH100D50

C

6095

CKSRYB103K50

C

6107

CCSRCH220J50

C

6300

CCSRCH390J50

L

VOL ASSY

MISCELLANEOUS

S

3371

ROTARY ENCODER

ASX7053

CN

3371

3P JUMPER CONNECTOR

52147-0310

CAPACITORS

C

3371,3372

CKSQYB103K50

M

POWER SW ASSY

SEMICONDUCTORS

Q

3401

DTC143EUA

D

3402

SLR343BC4T

MISCELLANEOUS

S

3401

SWITCH

VSG1024

CN

3401

4P JUMPER CONNECTOR

52147-0410

RESISTORS

All Resistors

RS1/10SR###J

CAPACITORS

C

3401

CCSRCH221J50

C

3402

CKSRYB104K50

N

ENCODER ASSY

MISCELLANEOUS

S

3501

ROTARY ENCODER

ASX7054

CN

3501

3P JUMPER CONNECTOR

52147-0310

RESISTORS

All Resistors

RS1/10SR###J

CAPACITORS

C

3501,3502

CKSQYB103K50

P

BUFFER GND ASSY

MISCELLANEOUS

KN

6961

SCREW PLATE

VNE1948

KN

6962

SCREW PLATE(MTL)

ANG7591

Q

IR INTERFACE_S ASSY

MISCELLANEOUS

CN

3801,3802

24P PLUG

AKM7173

CN

3810,3830,3840,3850

5P SOCKET

KP200IB5L

CN

3860,3870,3880,3890

5P SOCKET

KP200IB5L

O

IR BUFFER_S ASSY

SEMICONDUCTORS

IC

6801,6821,6841,6861

NJM4585M

IC

6881,7451,7471

NJM4585M

IC

7491

TC4053BFT

Q

6801,6821,6841,6861

2SD2704K

Q

6881,7451,7471

2SD2704K

MISCELLANEOUS

KN

6801

EARTH TERMINAL

AKF7002

CN

6802,6803

24P SOCKET

AKP7251

CN

6804

20P SOCKET

AKP7249

R

D AMP_SS ASSY

SEMICONDUCTORS

⚠

IC

4001

BU7262SFVM

⚠

IC

4003,4008

NJM78M05DL1A

⚠

IC

4004

TC74VHCT08AFK51

⚠

IC

4005

TA76L431FB

⚠

IC

4007

BU4094BCFV

⚠

IC

4009

NJM79M05DL1A

⚠

IC

4101,4201,4301,4401

IRS2092SPBF

⚠

IC

4102,4203,4302,4403

NJM2830U1-12

⚠

IC

4501,4601,4701

IRS2092SPBF

⚠

IC

4502,4603,4703

NJM2830U1-12

SC-91

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Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
A	Q	4000	DTC124EUA	MISCELLANEOUS			
	Q	4001,4002,4020,4026	2SA1576A	L	4100,4200,4300,4400	OTHER COIL	ATH7090
	Q	4004,4006,4008,4018	DTA124EUA	L	4500,4600,4700	OTHER COIL	ATH7090
	Q	4005,4007,4009,4019	DTC114TUA	JA	4101	SPEAKER TERMINAL 6-P	AKE7107
	Q	4014,4016,4027,4029	HN1C01FU	JA	4301,4501	SPEAKER TERMINAL 4-P	AKE7109
■	Q	4015,4021-4023,4025	2SC4081	JA	5101	SPEAKER TERMINAL 4-P	AKE7109
	Q	4017	DTC115EUA	KN	4000	WRAPPING TERMINAL	CKF1089
	Q	4024	2SC3906K	KN	4100,4200,4300,4400	SCREW PLATE	VNE1948
	Q	4030,4036,4106,4107	2SA1576A	KN	4500	SCREW PLATE	VNE1948
	Q	4031	DTA124EUA	KN	4502	EARTH TERMINAL	AKF7002
B	Q	4032	DTC114TUA	RY	4100,4300,4500,4700	RELAY	XSR3015
	Q	4033,4112,4115,4116	2SC2412K	RY	5000	RELAY	XSR3015
	Q	4034,4037,4038,4042	2SC4081	CN	4000	CONNECTOR	9604S-19C
	Q	4101,4102,4201,4202	IRF6775MPBFS1	CN	4001	PLUG	CKS-557
	Q	4103-4105,4108,4117	2SC4081	CN	4002	PLUG(2P)	KM200NA2
■	Q	4109,4209,4309,4409	2SD2704K	CN	4003	PLUG(4P)	KM200NA4
	Q	4110,4210,4310,4410	2SA1514K	CN	4004	PLUG(7P)	KM200NA7
	Q	4111,4113,4206,4207	2SA1576A	CN	4100,4200,4300,4400	5P PLUG	KM200IB5
	Q	4114,4314,4514	HN1K02FU	CN	4500,4600,4700,4900	5P PLUG	KM200IB5
	Q	4203-4205,4208,4217	2SC4081	RESISTORS			
C	Q	4211,4213,4306,4307	2SA1576A	R	4000,4027,4078,4090		RS1/10SR1802F
	Q	4301,4302,4401,4402	IRF6775MPBFS1	R	4042,6470-6476		RS1/8SQ0R0J
	Q	4303-4305,4308,4317	2SC4081	R	4057		RS1/8SQ471J
	Q	4311,4313,4406,4407	2SA1576A	R	4060		RS1/10SR5602F
	Q	4312,4414,4415,4512	2SC2412K	R	4061		RS1/10SR3302F
■	Q	4403-4405,4408,4417	2SC4081	R	4101,4163,4201,4263		RS1/10SR2701F
	Q	4411,4413,4506,4507	2SA1576A	R	4103,4203,4303,4403		RS1/4SA183J
	Q	4501,4502,4601,4602	IRF6775MPBFS1	R	4107,4187,4188,4207		ACN7180
	Q	4503-4505,4508,4517	2SC4081	R	4111-4114,4211-4214		RS1/4SA2R2J
	Q	4509,4609,4709	2SD2704K	R	4115,4215,4315,4415		ACN7192
D	Q	4510,4610,4710	2SA1514K	R	4116,4178,4216,4278		ACN7198
	Q	4511,4513,4606,4607	2SA1576A	R	4118,4218,4318,4418		RS1/8SQ105J
	Q	4603-4605,4608,4617	2SC4081	R	4119,4120,4167,4219		RS1/10SR1001F
	Q	4611,4613,4706,4707	2SA1576A	R	4122,4123,4222,4223		ACN7196
	Q	4612,4614,4712,4714	2SC2412K	R	4127,4227,4327,4427		RS1/4SA104J
■	Q	4701,4702	IRF6775MPBFS1	R	4129,4229,4329,4429		RS1/8SQ222J
	Q	4703-4705,4708,4717	2SC4081	R	4130,4134,4230,4234		RS1/8SQ103J
	Q	4711,4713	2SA1576A	R	4131,4231,4331,4431		RS1/8SQ822J
	Q	4715,5012,5013	2SC2412K	R	4132,4232,4332,4432		RS1/8SQ912J
	Q	5014	2SC4081	R	4133,4177,4233,4277		ACN7197
E	Q	5015-5020	2SC2412K	R	4135,4235,4335,4435		RS1/8SQ752J
	D	4005,4022,4023,4119	1SS355	R	4136,4236,4336,4436		RS1/8SQ242J
	D	4011,4012	DAN202U	R	4137,4141,4237,4241		ACN7165
	D	4013,4014,4018,4019	DZ2J240M0	R	4138,4238,4338,4438		RS1/8SQ4R7J
	D	4015,4020	DZ2J270M0	R	4139,4239,4339,4439		RS1/8SQ120J
■	D	4017,4021	DZ2J180M0	R	4140,4174,4240,4340		RS1/4SA470J
	D	4108,4109,4208,4209	RF101L2S	R	4142,4143,4242,4243		ACN7189
	D	4117,4217,4317,4417	RF071M2S	R	4145,4245,4345,4445		RS1/10SR8201F
	D	4118,4218,4318,4418	CMH07	R	4146,4246,4346,4446		RS1/8SQ182J
	D	4219,4319,4419,4519	1SS355	R	4148,4248,4348,4448		RS1/10SR3901F
F	D	4308,4309,4408,4409	RF101L2S	R	4149,4249,4349,4449		RS1/8SQ153J
	D	4508,4509,4608,4609	RF101L2S	R	4150,4250,4350,4450		RS1/10SR2200F
	D	4517,4617,4717,5000	RF071M2S	R	4152,4252,4352,4452		RS1/10SR6802F
	D	4518,4618,4718	CMH07	R	4154,4254,4354,4454		ACN7186
	D	4619,4719	1SS355	R	4155,4255,4355,4455		RS1/10SR1003F
■	D	4708,4709	RF101L2S	R	4156,4256,4356,4456		RS1/10SR2402F
				R	4157,4257,4357,4457		RS1/10SR2203F
				R	4162,4262,4362,4462		RS1/4SA123J
				R	4165,4179,4265,4279		RS1/8SQ124J
				R	4166,4266,4366,4466		RS1/10SR1002F

5			6			7			8		
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.		Mark	No.	Description
	R	4168,4268,4368,4468	RS1/10SR7502F		R	4568,4668,4768	RS1/10SR7502F				
	R	4169,4269,4369,4469	RS1/10SR3902F		R	4569,4669,4769	RS1/10SR3902F				
	R	4173,4373,4573,4773	RS1/4SA390J		R	4576,4676,4776	RS1/8SQ102J	A			
	R	4175,4375,4575,4791	RS1/4SA120J		⚠	R 4581,4681,4781	NTCG104KF104FB				
	R	4176,4276,4376,4476	RS1/8SQ102J			R 4586,4686,4786	RS1/8SQ101J				
⚠	R	4181,4281,4381,4481	NTCG104KF104FB								
	R	4186,4286,4386,4486	RS1/8SQ101J		R	4593,4693,4793	RS1/8SQ1R0J				
	R	4193,4293,4393,4493	RS1/8SQ1R0J		R	4595,4596,4695,4696	RS1/8SQ2R4J				
	R	4195,4196,4295,4296	RS1/8SQ2R4J		R	4597,4598,4697,4698	RS1/8SQ2R2J				
	R	4197,4198,4297,4298	RS1/8SQ2R2J		R	4620,4667,4719,4720	RS1/10SR1001F				
					R	4640,4740,4774,5174	RS1/4SA470J				
	R	4220,4267,4319,4320	RS1/10SR1001F								
	R	4287,4288,4307,4387	ACN7180		R	4687,4688,4707,4787	ACN7180				
	R	4301,4363,4401,4463	RS1/10SR2701F		R	4701,4763	RS1/10SR2701F				
	R	4311-4314,4411-4414	RS1/4SA2R2J		R	4711-4714,5041,5083	RS1/4SA2R2J				
	R	4316,4378,4416,4478	ACN7198		R	4716,4778	ACN7198	B			
					R	4722,4723	ACN7196				
	R	4322,4323,4422,4423	ACN7196								
	R	4330,4334,4430,4434	RS1/8SQ103J		R	4730,4734,5029,5030	RS1/8SQ103J				
	R	4333,4377,4433,4477	ACN7197		R	4733,4777	ACN7197				
	R	4337,4341,4437,4441	ACN7165		R	4737,4741	ACN7165				
	R	4342,4343,4442,4443	ACN7189		R	4742,4743	ACN7189				
					R	4765,4779	RS1/8SQ124J				
	R	4365,4379,4465,4479	RS1/8SQ124J								
	R	4367,4419,4420,4467	RS1/10SR1001F		R	4767,5000	RS1/10SR1001F				
	R	4374,4440,4540,4574	RS1/4SA470J		R	4788,5003-5005,5026	ACN7180				
	R	4388,4407,4487,4488	ACN7180		R	4795,4796	RS1/8SQ2R4J				
	R	4395,4396,4495,4496	RS1/8SQ2R4J		R	4797,4798	RS1/8SQ2R2J				
					R	4807,4822,4907,4922	RS1/4SA0R0J	C			
	R	4397,4398,4497,4498	RS1/8SQ2R2J								
	R	4501,4563,4601,4663	RS1/10SR2701F		R	5006-5010,5096	RS1/4SA105J				
	R	4503,4603,4703	RS1/4SA183J		R	5011,5018	RS1/8SQ563J				
	R	4507,4587,4588,4607	ACN7180		R	5012,5016,5020,5021	RS1/8SQ104J				
	R	4511-4514,4611-4614	RS1/4SA2R2J		R	5013,5019,5111,5112	RS1/8SQ224J				
					R	5014,5022	RS1/8SQ683J				
	R	4515,4615,4715	ACN7192								
	R	4516,4578,4616,4678	ACN7198		R	5015,5023	RS1/8SQ223J				
	R	4518,4618,4718	RS1/8SQ105J		R	5017,5025,5113,5114	RS1/8SQ473J				
	R	4519,4520,4567,4619	RS1/10SR1001F		R	5024,5110,5115,5122	RS1/8SQ104J				
	R	4522,4523,4622,4623	ACN7196		R	5040,5099,5100	RS1/8SQ222J				
					R	5059,5159	ACN7180	D			
	R	4527,4627,4727	RS1/4SA104J								
	R	4529,4629,4729,5039	RS1/8SQ222J		R	5062,5063	RS1/4SA222J				
	R	4530,4534,4630,4634	RS1/8SQ103J		R	5066,5068	RS1/8SQ331J				
	R	4531,4631,4731	RS1/8SQ822J		R	5095	RS1/4SA100J				
	R	4532,4632,4732	RS1/8SQ912J		R	5101,5102	RS1/4SA331J				
					R	5105	RS1/8SQ100J				
	R	4533,4577,4633,4677	ACN7197								
	R	4535,4635,4735	RS1/8SQ752J		R	5107	RS1/4SA224J				
	R	4536,4636,4736	RS1/8SQ242J		R	5116,5117,5123,5124	RS1/8SQ224J				
	R	4537,4541,4637,4641	ACN7165		R	5118,5119,5126,5127	RS1/8SQ473J				
	R	4538,4638,4738	RS1/8SQ4R7J		R	5128,5142,5151,5157	RS1/8SQ104J				
					R	5130,5131,5143,5144	RS1/8SQ224J				
	R	4539,4639,4739	RS1/8SQ120J								
	R	4542,4543,4642,4643	ACN7189		R	5132	RS1/8SQ473J	E			
	R	4545,4645,4745	RS1/10SR8201F		R	5152,5153,5158,5160	RS1/8SQ224J				
	R	4546,4646,4746	RS1/8SQ182J		R	5173	RS1/4SA390J				
	R	4548,4648,4748	RS1/10SR3901F		R	5175	RS1/4SA120J				
						Other Resistors	RS1/10SR###J				
	R	4549,4649,4749	RS1/8SQ153J								
	R	4550,4650,4750	RS1/10SR2200F								
	R	4552,4652,4752	RS1/10SR6802F								
	R	4554,4654,4754	ACN7186								
	R	4555,4655,4755	RS1/10SR1003F								
	R	4556,4656,4756	RS1/10SR2402F								
	R	4557,4657,4757	RS1/10SR2203F								
	R	4562,4662,4762	RS1/4SA123J								
	R	4565,4579,4665,4679	RS1/8SQ124J								
	R	4566,4666,4766,5001	RS1/10SR1002F								

CAPACITORS

C	4001,4006,4026,4067	CFHXSQ103J16
C	4007	CCSRCH331J50
C	4008,4010,4024,4036	CEAK101M16
C	4009	CCSRCH150J50
C	4013	CCSRCH180J50

Mark	No.	Description	Part No.
A	C	4016	CCSRCH120J50
	C	4022	CFHXSQ102J16
	C	4023,5185	CEHVW100M16
	C	4040	CCH1814
	C	4044,4048	CCSRCH221J50
B	C	4052,4166,4167,4266	CEAK101M16
	C	4057,4058	ACH7305
	C	4063	ACH7389
	C	4065,4066,4069,4070	ACH7388
	C	4068,4073,4074,4111	CFHXSQ103J16
C	C	4077	CCSRCH470J50
	C	4078,4079	ACE7090
	C	4080,4098,4099,4120	CFHXSQ102J50
	C	4097	CCSRCH100D50
	C	4100,4200,4300,4400	CFTLA104J2A
D	C	4101,4201,4301,4401	CFTLA474J2A
	C	4105,4205,4305,4405	ACE7099
	C	4108,4109,4208,4209	CEAK471M16
	C	4110,4310,4510,4710	CEAK100M50
	C	4119,4219,4319,4419	ACG7110
E	C	4123,4220,4223,4320	CFHXSQ102J50
	C	4134,4136,4234,4236	ACH7376
	C	4147,4247,4347,4447	ACG7117
	C	4148,4248,4348,4448	ACE7100
	C	4149,4150,4249,4250	ACH7359
F	C	4156,4256,4356,4456	ACE7097
	C	4159,4160,4259,4260	ACE7108
	C	4161,4175,4261,4275	ACG7105
	C	4180,4182,4280,4282	ACE7096
	C	4211,4311,4411,4511	CFHXSQ103J16
G	C	4267,4366,4367,4466	CEAK101M16
	C	4308,4309,4408,4409	CEAK471M16
	C	4323,4420,4423,4520	CFHXSQ102J50
	C	4334,4336,4434,4436	ACH7376
	C	4349,4350,4449,4450	ACH7359
H	C	4359,4360,4459,4460	ACE7108
	C	4361,4375,4461,4475	ACG7105
	C	4380,4382,4480,4482	ACE7096
	C	4467,4566,4567,4666	CEAK101M16
	C	4500,4600,4700	CFTLA104J2A
I	C	4501,4601,4701	CFTLA474J2A
	C	4505,4605,4705	ACE7099
	C	4508,4509,4608,4609	CEAK471M16
	C	4519,4619,4719	ACG7110
	C	4523,4620,4623,4720	CFHXSQ102J50
J	C	4534,4536,4634,4636	ACH7376
	C	4547,4647,4747	ACG7117
	C	4548,4648,4748	ACE7100
	C	4549,4550,4649,4650	ACH7359
	C	4556,4656,4756	ACE7097
K	C	4559,4560,4659,4660	ACE7108
	C	4561,4575,4661,4675	ACG7105
	C	4580,4680,4780,4782	ACE7096
	C	4611,4711,5186	CFHXSQ103J16
	C	4667,4766,4767,5184	CEAK101M16
L	C	4708,4709	CEAK471M16
	C	4723,5000	CFHXSQ102J50
	C	4734,4736	ACH7376
	C	4749,4750	ACH7359
	C	4759,4760	ACE7108

Mark	No.	Description	Part No.
M	C	4761,4775	ACG7105
	C	5080,5082,5180,5182	ACE7096
	C	5110	CEAK100M50
S PRIMARY ASSY			
SEMICONDUCTORS			
N	⚠	IC 1	STR2A153
	⚠	IC 52	NJM1431AF
		Q 71	2SD2704K
	⚠	D 1	D2SB60A
	⚠	D 2,5	SARS01LF-F7
O	⚠	D 3	SJPL-D2
		D 4	KDZ36B
	⚠	D 50	FMEN-220A
		D 71,72	1SS355
MISCELLANEOUS			
P	⚠	L 1 LINE FILTER	ATF7046
		L 51 COIL	ATH7080
	⚠	L 71 LINE FILTER	XTF3004
		H 1,2,71,72 FUSE CLIP	AKR1004
	⚠	JA 71 AC INLET ASSY	ADX7513
Q		KN 1,2 SCREW PLATE	VNE1948
		KN 50,52 EARTH TERMINAL	AKF7002
	⚠	RY 71 POWER RELAY	ASR7034
	⚠	T 1 POWER TRANSFORMER	ATK7006
	⚠	CN 81 CONNECTOR	B2P3-VH
R		1 HEAT SINK(AL)	ANH7224
		2 SCREW	BBZ30P080FCC
		JP 51 HOUSING	ADX7792
	⚠	PC 1 PHOTO COUPLER	TLP781
RESISTORS			
S		R 1	RS1LMF680J
		R 2	ACN7200
		R 3	RS1LMFR68J
		R 5	RS1/8SQ120J
		R 6	RS1/8SQ102J
T	⚠	R 9-11	ACN7173
		R 53	RS1/10SR3001F
		R 54	RS1/10SR7501F
		R 56	RS1/10SR8201F
		R 57	ACN7180
U		R 74,75	RS1/8SQ105J
		Other Resistors	RS1/10SR###J
CAPACITORS			
V	⚠	C 1	ACE7071
		C 3	ACH7342
		C 4	ACE7095
		C 5	ACH7385
		C 6	ACG7112
W	⚠	C 12,21	VCG1046
		C 52	BCH1044
		C 53	CKSRYB104K50
		C 56	CKSQYB104K50
		C 58	ACH7369

Mark	No.	Description	Part No.
	C 61		CCSRCH100D50
	C 62		DCH1330
	C 66		CCSQCH330J50
⚠	C 73		XCG3010
	C 74,75		CCSRCH220J50

T A-REG_S ASSY

SEMICONDUCTORS

⚠	IC 7501	NJM78M12FA
⚠	IC 7502	NJM79M12FA
⚠	D 7501-7504	1SR154-400

MISCELLANEOUS

H 7501-7504 FUSE CLIP	AKR1004
CN 7501 5P TOP POST	B5B-EH
CN 7502 L-PLUG(5P)	KM200NA5L
JH 7501,7502 PCB BINDER	AEF7008

RESISTORS

All Resistors	RS1/8SQ###J
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CAPACITORS

C 7501,7511	CEAK222M25
C 7504	CFTLA394J50
C 7515,7516	CEAK221M35

Mark	No.	Description	Part No.	
RESISTORS				
	R 7211,7213		RD1/4MUF102J	A
	R 7245,7258,7259,7273		RS1/4SA105J	
	R 7255,7256		RS1/8SQ1R5J	
	R 7260		RS1/8SQ105J	
	R 7272,7403,7404		ACN7180	
	R 7274,7405,7406		RS1/4SA105J	■
	R 7400		RS1/4SA913J	
	R 7401		RS1/4SA683J	
	R 7402		RD1/4MUF100J	
	Other Resistors		RS1/10SR###J	

CAPACITORS

C 7213,7214	CEAK221M10	B
C 7215,7219	CEAK100M50	
C 7221,7246	CEAK470M25	
C 7240,7250	CFTLA394J50	
C 7241	CEAK222M35	

C 7251,7252	CEAK222M25	■
C 7255,7256	CEAK221M35	
C 7270	CFTLA474J2A	
C 7271,7272	CEAK222M16	
C 7283,7284	CEAK471M16	

C 7400,7401	ACH7258	C
C 7402,7403	CFTLA104J2A	

U IR REG_S ASSY

SEMICONDUCTORS

⚠	IC 7241	NJM78M15FA
⚠	IC 7251	NJM78M12FA
⚠	IC 7252	NJM79M12FA
⚠	IC 7271	NJM78M08FA
⚠	IC 7272	NJM79M08FA

	Q 7203,7204,7207,7221	DTC124EUA
	Q 7205,7206,7224	DTA124EUA
⚠	Q 7211	2SD2400A
⚠	Q 7212	2SB1569A
	Q 7222	DTA143EUA

	Q 7223,7225,7226	DTC124EUA
	D 7200,7219	1SS355
	D 7213,7214	DZ2J075M0
	D 7215,7216	1SR154-400
⚠	D 7241-7244,7251-7254	1SR154-400

⚠	D 7271-7274	1SR154-400
⚠	D 7400,7401	LN6SB60-4003

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 7281 CONNECTOR	CKS3368
CN 7400 PLUG	CKS-556
CN 7401 PLUG	CKS-557
JH 7251-7254 PCB BINDER	AEF7008

JP 7291 HOUSING	ADX7778
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V V-REG_S ASSY

SEMICONDUCTORS

⚠	IC 7551	NJM78M12FA
	IC 7901	S-80842CNMC-B83
⚠	IC 7902	MM3411A50N
	IC 7903	S-80848CNMC-B89
Q 7901		2SA1037K

⚠	D 7551,7554,7555	1SR154-400	D
	D 7556,7902	1SS355	
⚠	D 7557-7559	1SR154-400	
⚠	D 7560	D3SBA60	
	D 7561,7562,7564	DZ2J051M0	

D 7563	PTZ22	■
D 7901	DAN202U	

MISCELLANEOUS

H 7551-7554 FUSE CLIP	AKR1004
KN 7901 EARTH TERMINAL	AKF7002
CN 7551 5P TOP POST	B5B-EH
CN 7552,7553 PLUG(7P)	KM200NA7
CN 7554 PLUG(4P)	KM200NA4

CN 7661 DUMMY CODE	AKN7151
CN 7663 CONNECTOR	9604S-15C
CN 7901 31P CONNECTOR	VKN1262
CN 7903 39P CONNECTOR	VKN2097
7551 SCREW	BBZ30P080FCC

7552 HEAT SINK	ANH7251
JH 7901,7903,7904 PCB BINDER	AEF7008

Mark	No.	Description	Part No.
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RESISTORS

A	R	7551,7557,7903,7907	RS1/8SQ105J
	R	7552	RD1/4MUF4R7J
	R	7555	RD1/4MUF391J
	R	7558	RS1/8SQ225J
		Other Resistors	RS1/10SR###J

CAPACITORS

B	C	7554	CEAK471M35
	C	7555	CEAK100M50
	C	7557	CEAK102M35
	C	7559,7560	CFTLA104J50
	C	7561	CEANP101M35

C	C	7563	CEAK221M35
	C	7566,7571	CEAK101M35
	C	7568,7928	CCSQCH101J50
	C	7569	CKSRYB103K50
	C	7572	CEAK101M16

D	C	7573	CEAK472M16
	C	7575,7582	CCSRCH101J50
	C	7905	CCSQCH331J50
	C	7906	CKSQYB103K50
	C	7918,7920,7921,7924	CCSRCH100D50

E	C	7927	CKSQYB104K50
	C	7933,7939	CCSRCH100D50
	C	7946	CKSQYB105K25

W VREG CHILD_S ASSY**SEMICONDUCTORS**

	IC	8701	NJM78M05FA
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MISCELLANEOUS

	JP	8701 HOUSING	ADX7783
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CAPACITORS

F	C	8701	CKSQYB103K50
	C	8703	CEAK101M16

X CONNECT_S ASSY**MISCELLANEOUS**

G	CN	7952 B TO B CONNECTOR	AKM7222
	CN	7954 B TO B CONNECTOR	AKN7152

RESISTORS

H	R	7956	RS1/8SQ105J
		Other Resistors	RS1/10SR###J

CAPACITORS

I	C	7951,7956	CCSRCH100D50
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Y A-DAC BRIDGE ASSY**MISCELLANEOUS**

J	CN	3791,3792 20P PLUG	AKM7171
	CN	3793,3794 B TO B CONNECTOR	AKM7176

Mark	No.	Description	Part No.
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RESISTORS

		All Resistors	RS1/10SR###J
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Z D-AUDIO BRIDGE ASSY**MISCELLANEOUS**

	CN	3771,3772 B TO B 23PIN PLUG	AKM7107
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AA D-FILTER BRIDGE_S ASSY**SEMICONDUCTORS**

	D	7161,7162	1SS355
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MISCELLANEOUS

K	CN	7181,7183 B TO B CONNECTOR	AKM7221
	CN	7182,7184 B TO B 15PIN PLUG	AKM7103

RESISTORS

L	R	7171	RS1/8SQ0R0J
	R	7181,7182	RS1/8SQ1R0J
		Other Resistors	RS1/10SR###J

AB PRE BRIDGE_S ASSY**MISCELLANEOUS**

	CN	6953,6954 20P PLUG	AKM7171
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AC FAN CONNECT ASSY**MISCELLANEOUS**

M	CN	5931,5932 PLUG(3P)	KM200NA3
	JH	5931 PCB BINDER	AEF7008

AD MIC HP GUARD ASSY**MISCELLANEOUS**

	JH	5921,5924 PCB BINDER	AEF7008
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AE BIND DM CABLE_S ASSY**MISCELLANEOUS**

	JH	3551 PCB BINDER	AEF7008
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AF P WIRE GUARD_S ASSY**MISCELLANEOUS**

	JH	3560 PCB BINDER	AEF7008
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Mark	No.	Description	Part No.
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AG		FFC GUARD_S ASSY	
FFC GUARD_S ASSY has no service parts.			

A

AH		VREG GUARD ASSY	
VREG GUARD ASSY has no service parts.			

■

AI		BINDFAN CABLE_S ASSY	
BINDFAN CABLE_S ASSY has no service parts.			

B

AJ		TRANS VREG STYL_S ASSY	
TRANS VREG STYL_S ASSY has no service parts.			

■

AK		PANEL GUARD ASSY	
PANEL GUARD ASSY has no service parts.			

C

AL		IR EDGE GUARD_S ASSY	
IR EDGE GUARD_S ASSY has no service parts.			

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F