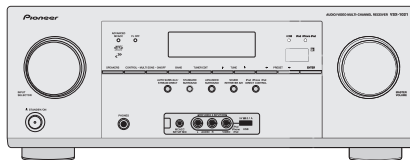


Pioneer

Service Manual



VSX-1021-K

ORDER NO.
RRV4176

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-1021-K

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

Model	Type	Power Requirement	Remarks
VSX-1021-K	UXCNCB	AC 120 V	



PIONEER CORPORATION 1-1, Shin-ogura, Saiwai-ku, Kawasaki-shi, Kanagawa 212-0031, Japan

PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.

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K-IZV JUNE 2011 Printed in Japan

SAFETY INFORMATION



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

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

WARNING

This product may contain a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

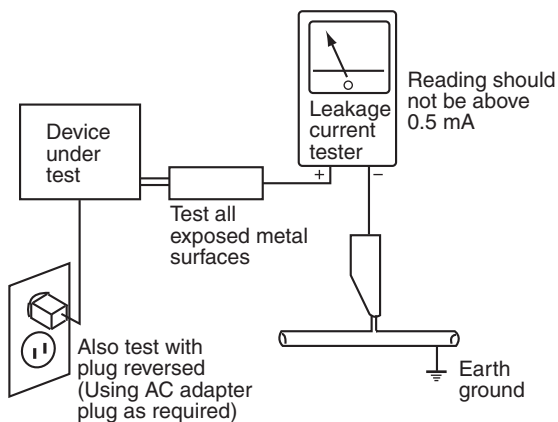
(FOR USA MODEL ONLY)

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

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

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

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:
GYP1006 1.0 in dia.
GYP1007 0.6 in dia.
GYP1008 0.3 in dia.

1.2 NOTES ON REPLACING PARTS

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

Assy Name	PCB Assy Part No.	Parts that is Difficult to Replace			
		Ref No.	Function	Part No.	Remarks
D-MAIN Assy	7028070351010-IL	IC101	EMMA2RL2	UPD61283F1-407LU2A	BGA
		IC903	HDMI Receiver	_____	IC with heat-pad
		IC9204	Media Processor IC	DM860	BGA
		IC1602	HDMI Transmitter	_____	IC with heat-pad
		IC9002	Audio DSP System IC	D810K013BZKB400	IC with heat-pad

1.3 SERVICE NOTICE

- Discharging**
For more detail, please refer to "7. DISASSEMBLY - 1. Discharging".
- Notes on Ground Points Connection**
For more detail, please refer to "7. DISASSEMBLY - 2. Notes on Ground Points Connection".

2. SPECIFICATIONS

Amplifier section

Continuous average power output of 90 watts* per channel, min., at 8 ohms, from 20 Hz to 20 000 Hz with no more than 0.08 %** total harmonic distortion.

Front (stereo) 90 W + 90 W
Power output (1 kHz, 8 Ω, 0.05 %, 1 ch driven)
..... 120 W per channel
Guaranteed speaker impedance 6 Ω to 16 Ω

* Measured pursuant to the Federal Trade Commission's

Trade Regulation rule on Power Output Claims for Amplifiers

** Measured by Audio Spectrum Analyzer

Audio Section

Input (Sensitivity/Impedance)

LINE.....315 mV/47 kΩ

Output (Level/Impedance)

REC.....315 mV/2.2 kΩ

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

LINE..... 100 dB

Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]

LINE..... 81 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..... 1080p (1125p) (Video convert off)

Digital In/Out Section

HDMI terminal 19-pin (Not DVI)

HDMI output type..... 5 V, 100 mA

USB terminalUSB2.0 Full Speed (Type A)

iPod terminal.....USB, and Video (Composite)

SIRIUS antenna cable 8-pin mini DIN cable

ADAPTER PORT terminal..... 5 V, 100 mA

WIRELESS LAN ADAPTER terminal 5 V, 600 mA

Integrated Control Section

Control (SR) terminal.....ø 3.5 Mini-jack (MONO)

Control (IR) terminalø 3.5 Mini-jack (MONO)

IR signal..... High Active (High Level: 2.0 V)

Network Section

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

Miscellaneous

Power requirements.....AC 120 V, 60 Hz

Power consumption 550 W

In standby.....0.2 W (HDMI Setup – Control : OFF)

0.3 W (HDMI Setup – Control : ON)

Dimensions.. 435 mm (W) x 168 mm (H) x 362.5 mm (D)

(17 3/16 in. (W) x 6 5/8 in. (H) x 14 5/16 in. (D))

Weight (without package) 10 kg (22 lb 1 oz)

Number of Furnished Parts

MCACC Setup microphone1

Remote control unit1

AAA size IEC R03 dry cell batteries2

iPod cable1

AM loop antenna1

FM wire antenna.....1

CD-ROM (AVNavigator)

Operating instructions

Note

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

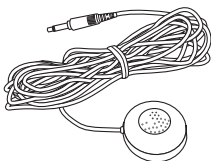
Accessories



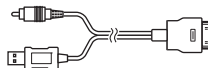
AM loop antenna
(E601019000010-IL)



FM wire antenna
(E605010140010-IL)



Setup microphone (cable: 5 m (16.4 ft.))
(APM7008)



iPod cable
(L308102013020-IL)

Operating instructions
(5707000004890-IL)
CD-ROM (AVNavigator)
(6517000000120-IL)



AAA size IEC R03 dry cell batteries
(to confirm system operation) x2



Remote control unit
(AXD7615)
(8300761500010-IL)

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

A

Items to be checked after servicing / VSX, SC

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

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

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

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

3.2 JIGS LIST

Jigs List

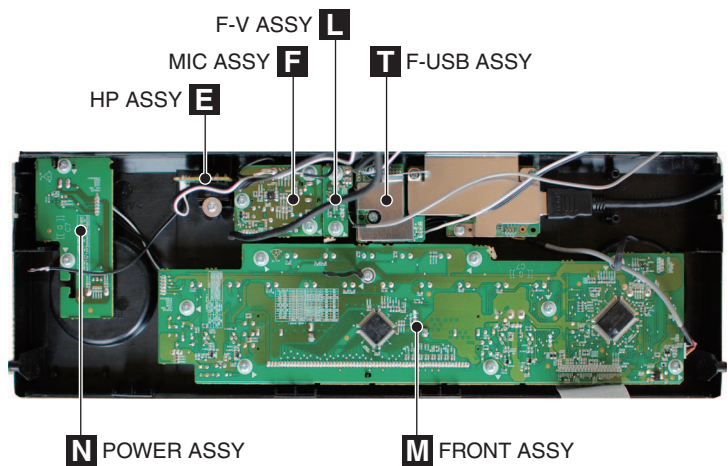
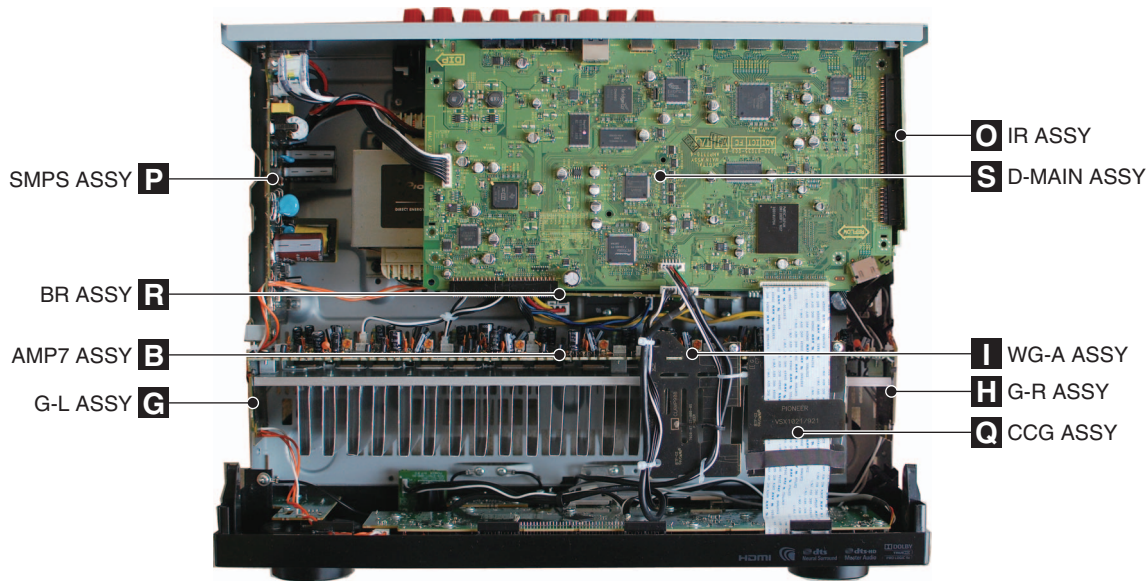
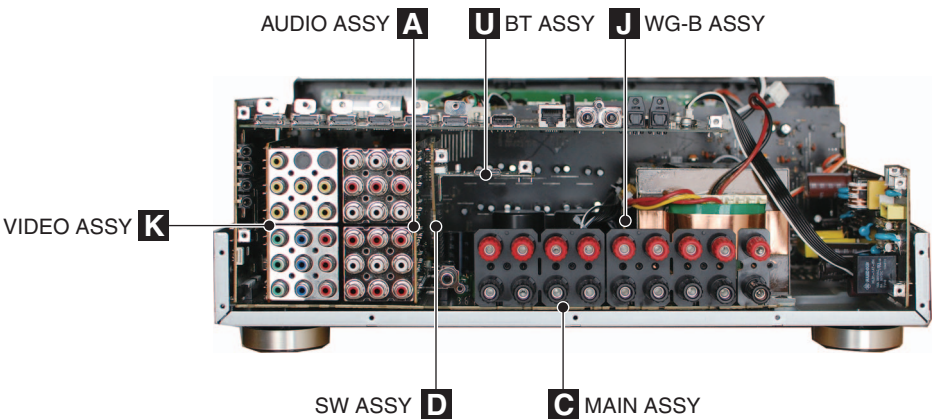
Jig Name	Part No.	Remarks
Board to board extension jig cable	GGD1735	Diagnosis (D-MAIN Assy ↔ IR Assy)
Board to board extension jig cable	GGD1736	Diagnosis (D-MAIN Assy ↔ BR Assy)
7P extension jig cable	GGD1737	Diagnosis (D-MAIN Assy ↔ SMPS Assy)
13P extension jig cable	GGD1740	Diagnosis (AMP7 Assy ↔ AUDIO Assy)
5P extension jig cable	GGD1741	Diagnosis (AMP7 Assy ↔ IR Assy)

Lubricants and Glues List

Name	Part No.	Remarks
Silicon grease	GEM1057	Refer to "9.2 EXTERIOR SECTION".
Silicon adhesive	GYA1011 (KE40RTV-W)	Refer to "9.2 EXTERIOR SECTION".

5 6 7 8

3.3 PCB LOCATIONS



A

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								
B	NSP	1..MAIN ASSY	7025HK1009010-IL	NSP	1..AUDIO ASSY	7025HK1009013-IL		
		2..MAIN ASSY	70280702710J0-IL		2..AUDIO ASSY	7028070311010-IL		
		2..SW ASSY	7028070272010-IL	NSP	1..IR ASSY	7025HK1009014-IL		
		2..G-L ASSY	7028070273010-IL		2..IR ASSY	7028070321010-IL		
		2..G-R ASSY	7028070274010-IL		⚠	2..SMPS ASSY	7028070322010-IL	
					2..CCG ASSY	7028070323010-IL		
					2..BR ASSY	7028070324010-IL		
		2..WG-A ASSY	7028070276010-IL					
		2..WG-B ASSY	7028070277010-IL					
	NSP	1..D-MAIN ASSY	7025HK1009011-IL	NSP	1..F-USB ASSY	7025HK1009015-IL		
	2..D-MAIN ASSY	7028070351010-IL		2..F-USB ASSY	7028070331010-IL			
C	NSP	1..FRONT ASSY	7025HK1009012-IL	NSP	1..VIDEO ASSY	7025HK1009018-IL		
		2..FRONT ASSY	7028070301010-IL		2..VIDEO ASSY	7028070261010-IL		
		2..POWER ASSY	7028070302010-IL	NSP	1..BT ASSY	7025HK1009019-IL		
		2..MIC ASSY	7028070303030-IL		2..BT ASSY	7028070231010-IL		
		2..F-V ASSY	7028070304040-IL					
		2..HP ASSY	7028070306010-IL	NSP	1..AMP7 ASSY	7025HK1009077-IL		
				2..AMP7 ASSY	7028070251010-IL			

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VSX-1021-K

9

4. BLOCK DIAGRAM

4.1 OVERALL WIRING DIAGRAM

A

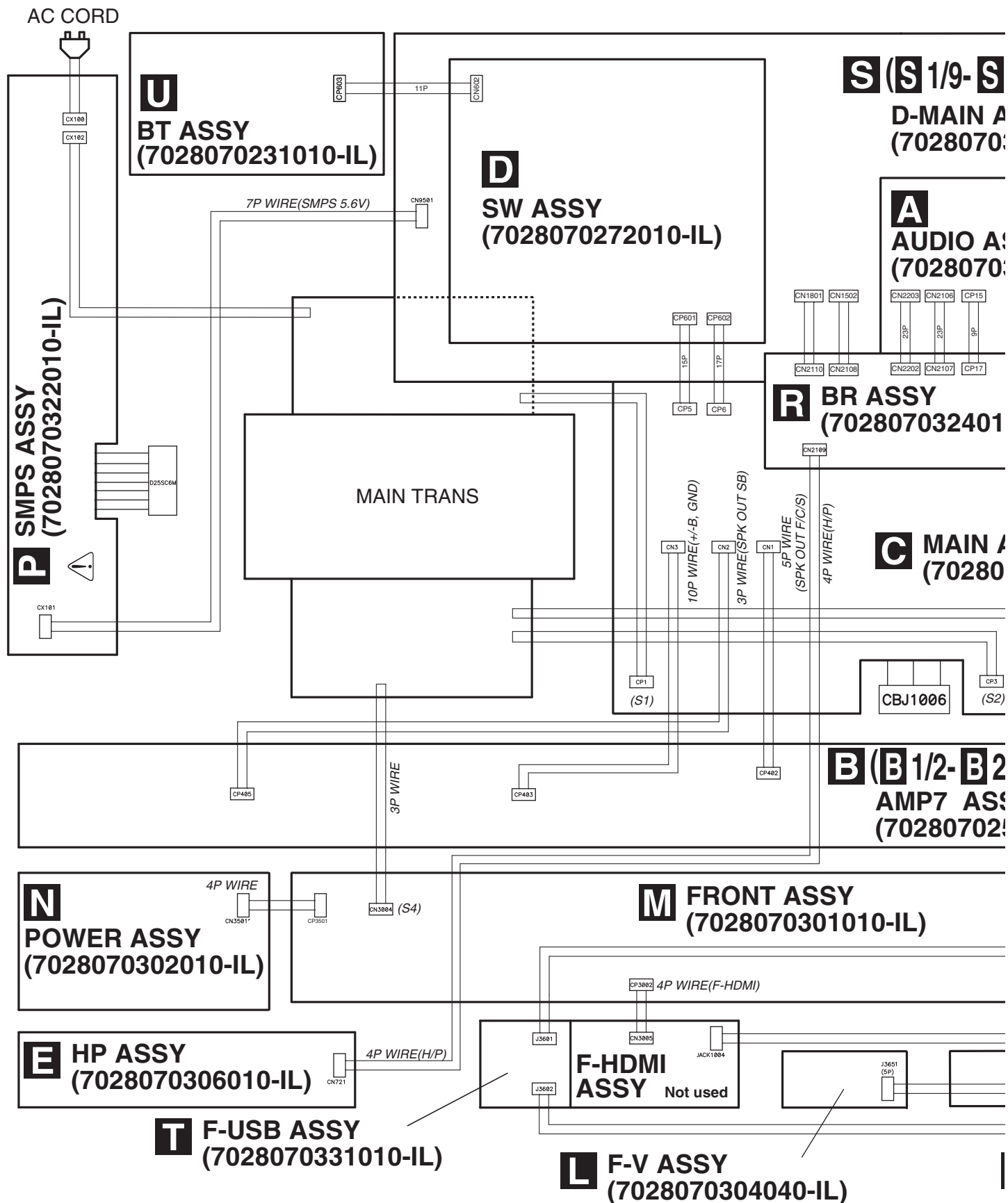
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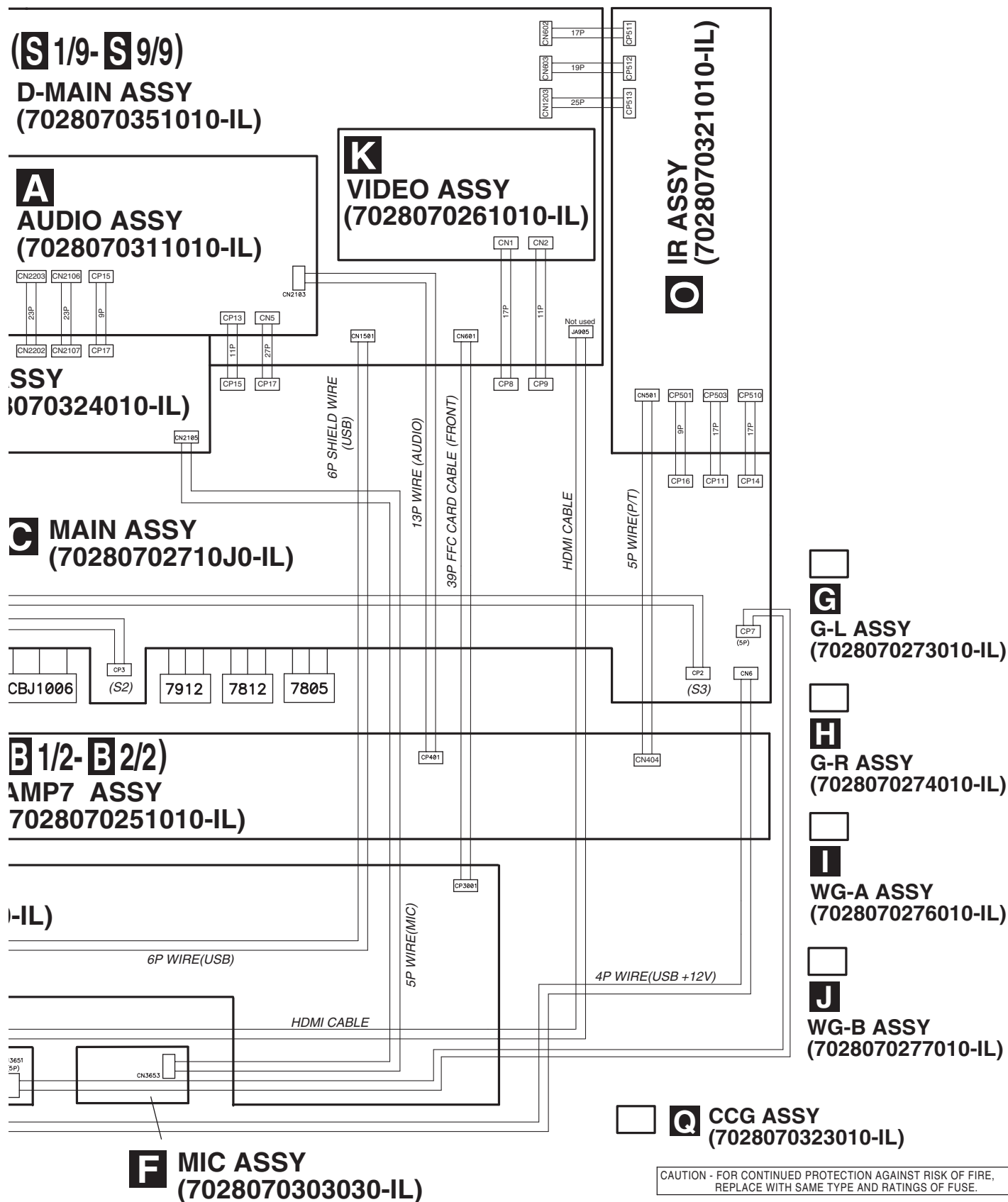
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- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



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

1 2 3 4

4.2 AUDIO BLOCK DIAGRAM

A

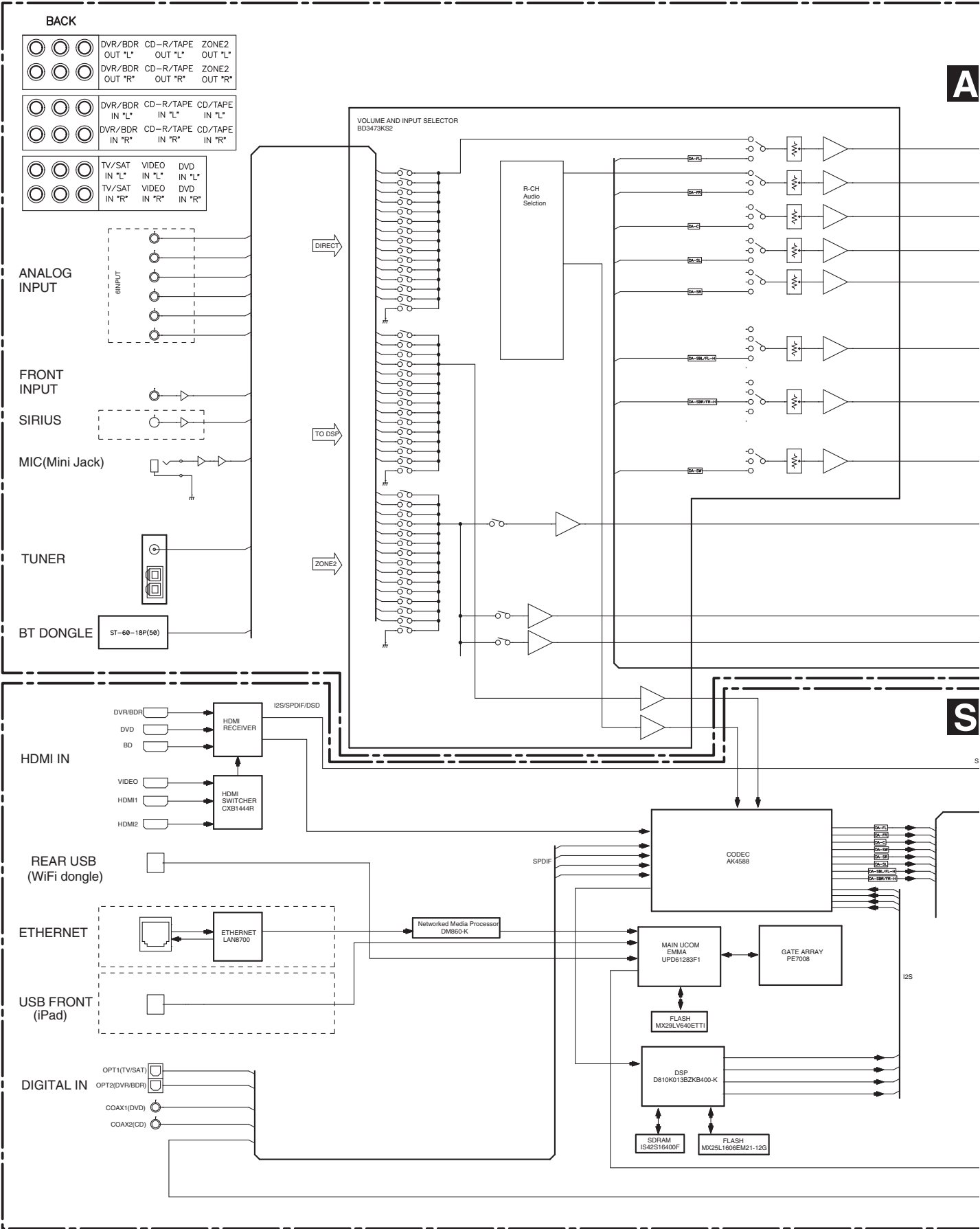
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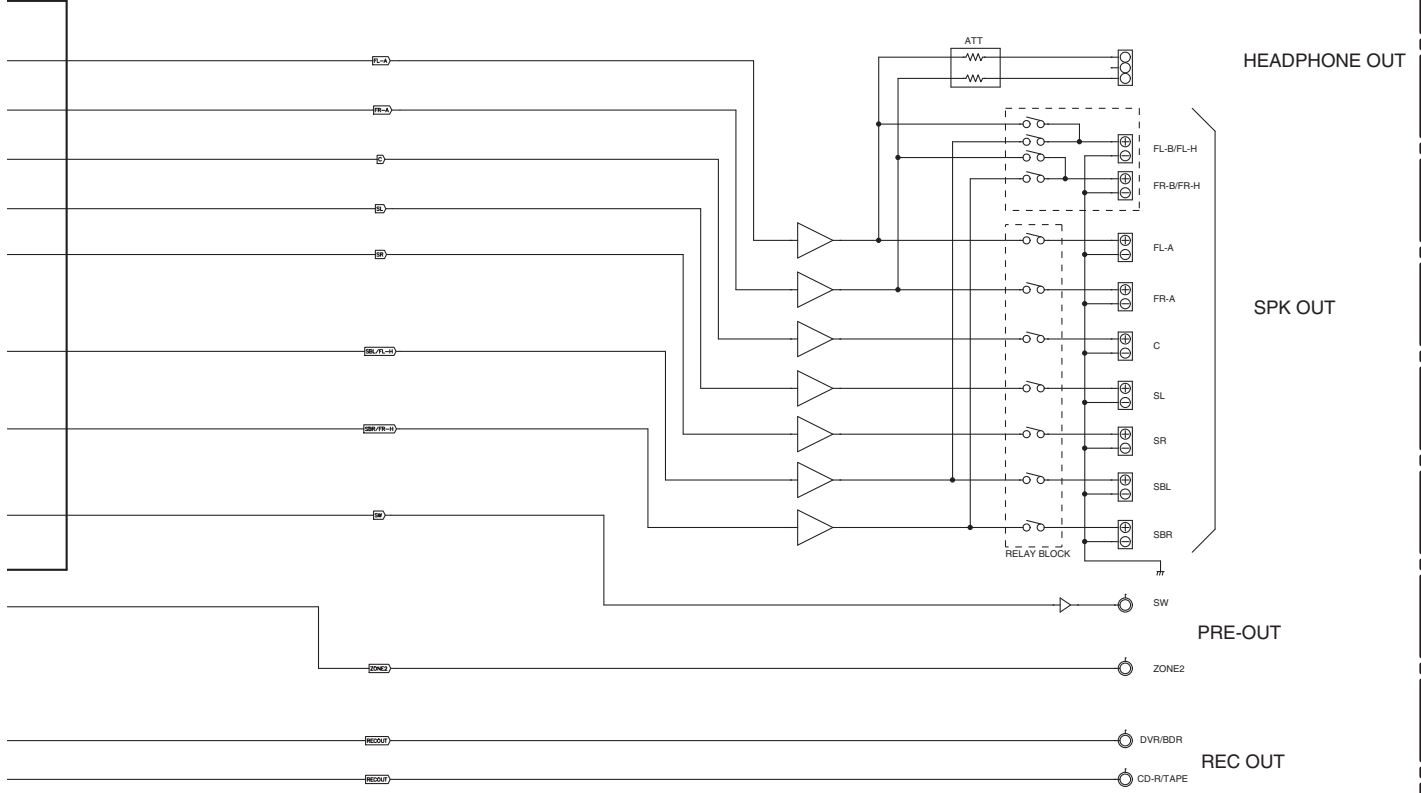
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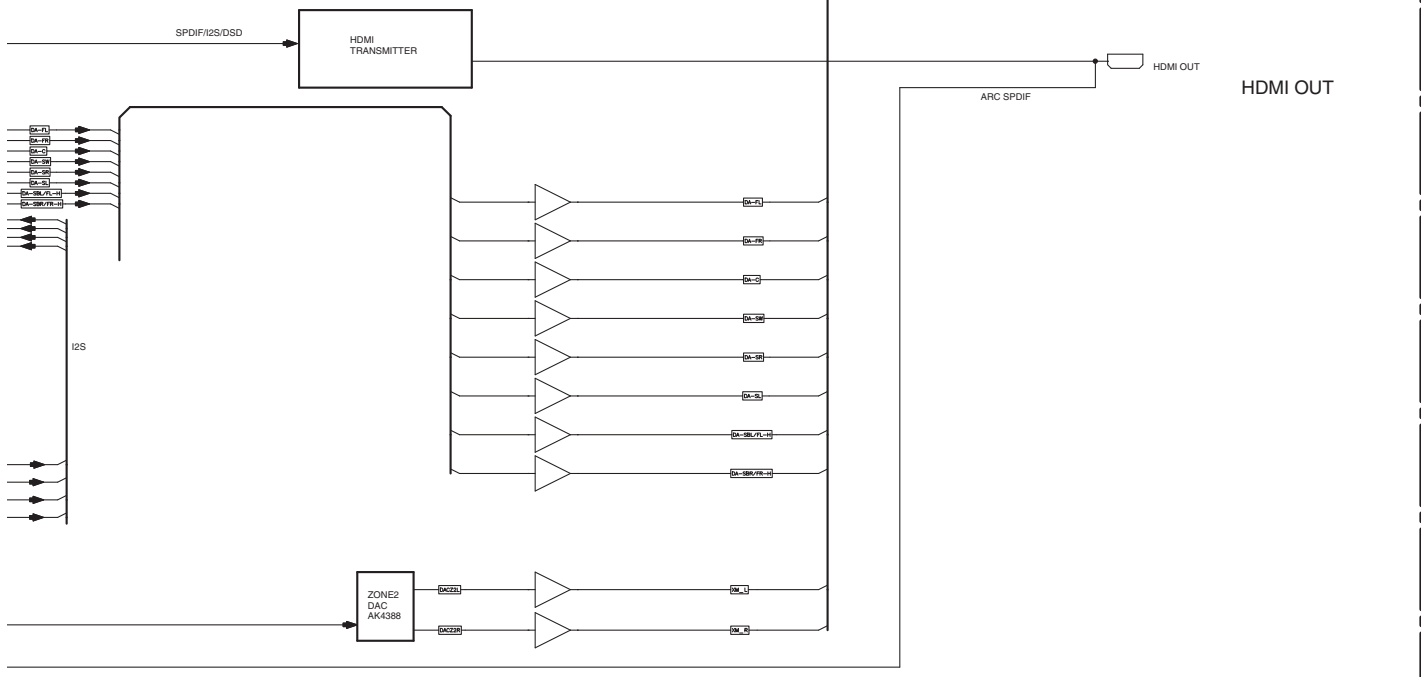
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A AUDIO ASSY



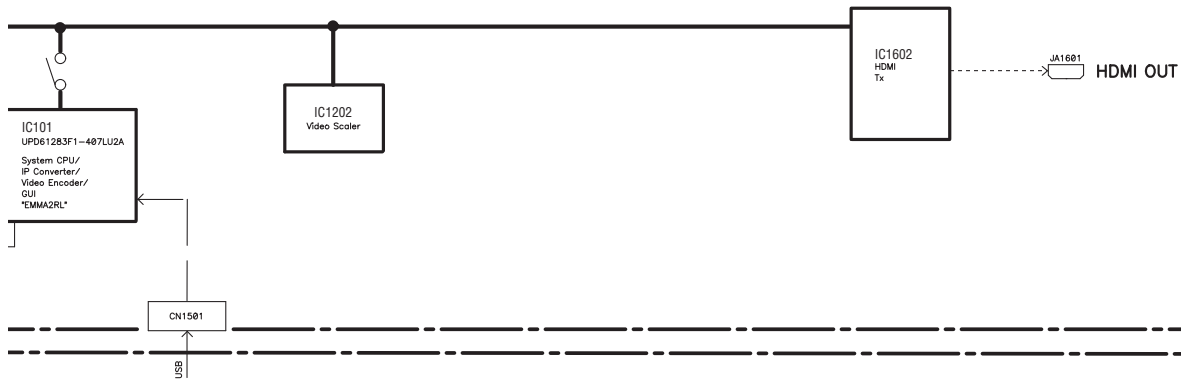
S D-MAIN ASSY



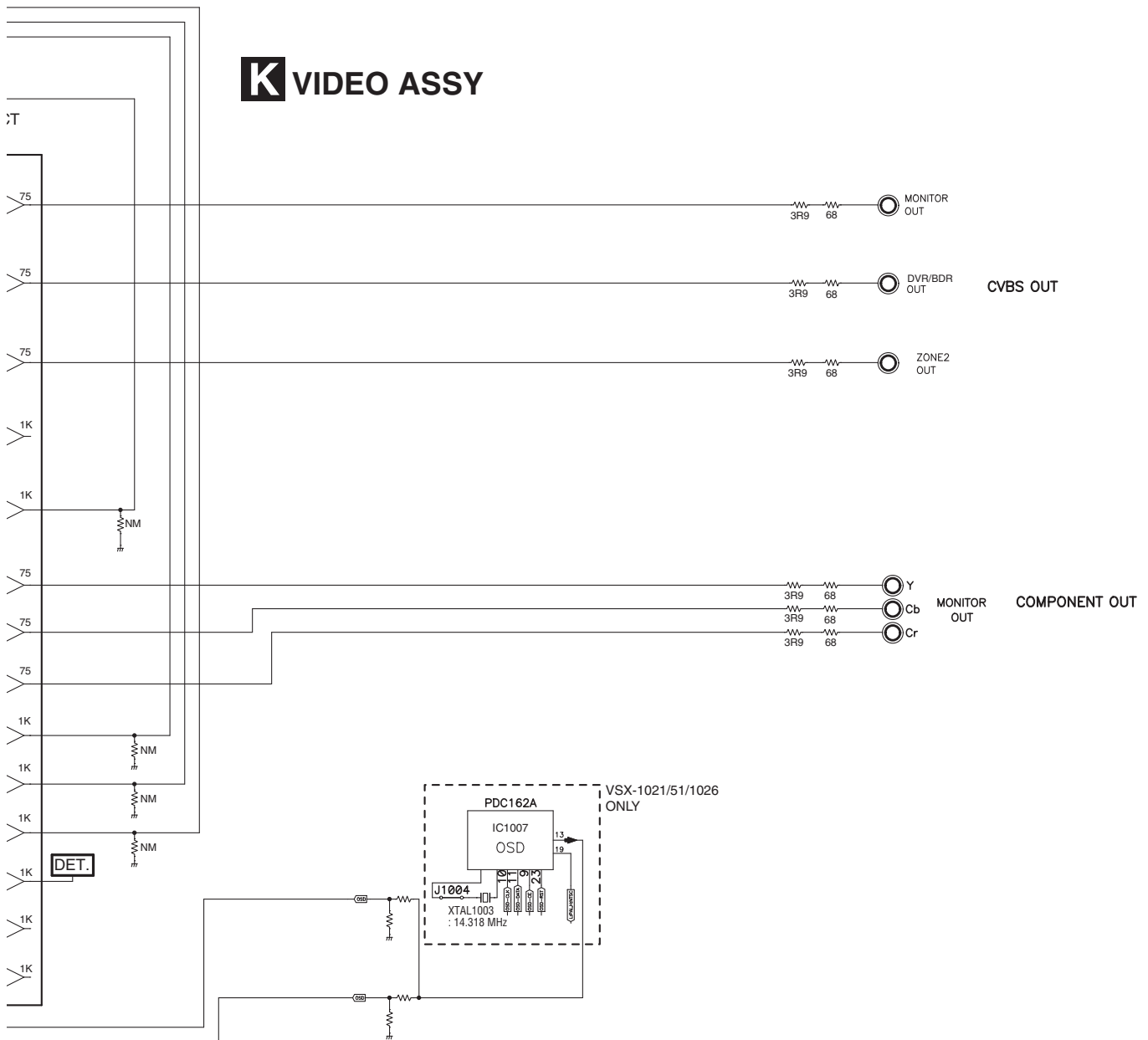
△



D-MAIN ASSY



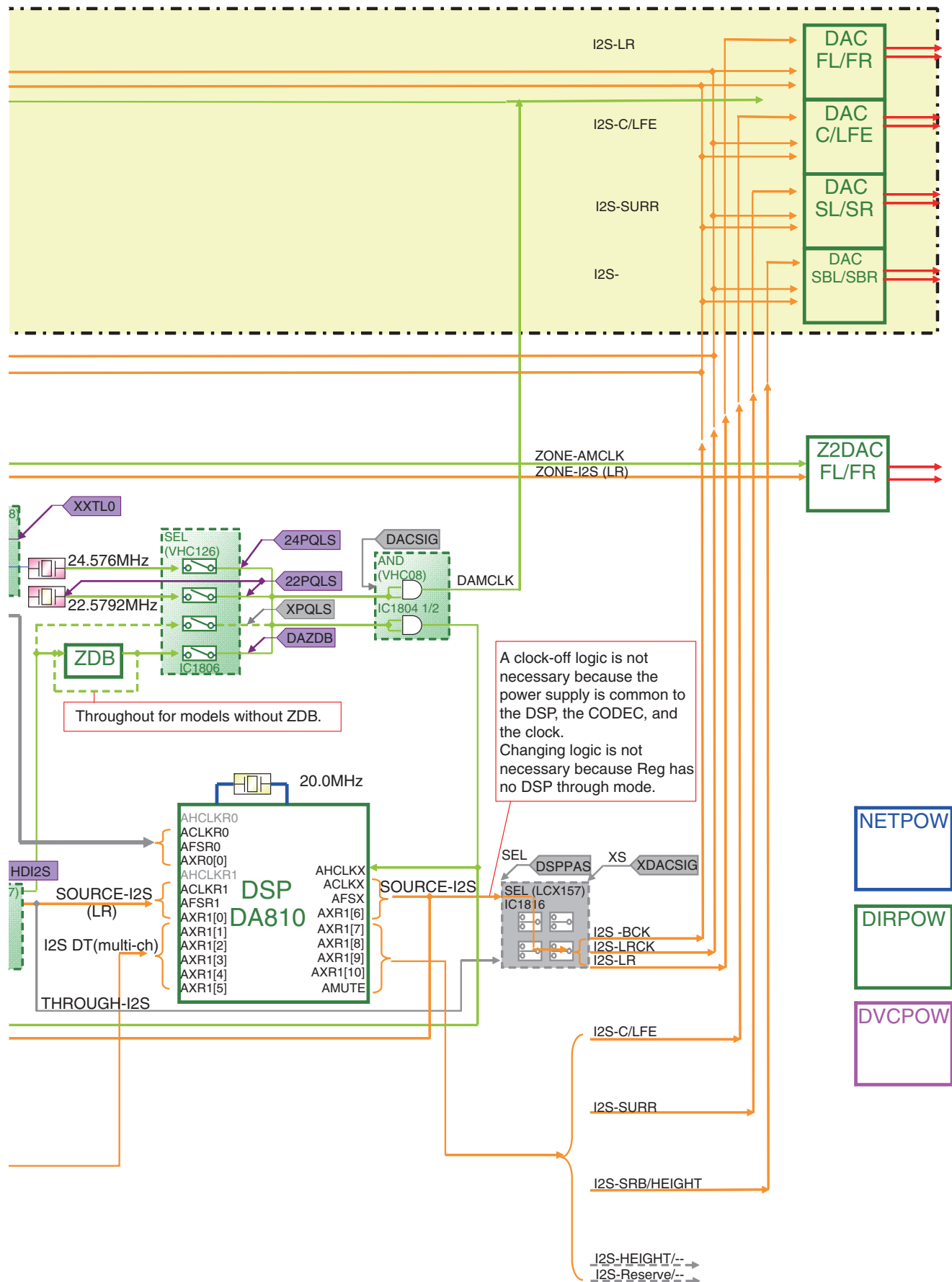
K VIDEO ASSY



S D-MAIN ASSY



SPDIF → AMCLK → I2S → SYSCLK → FLG



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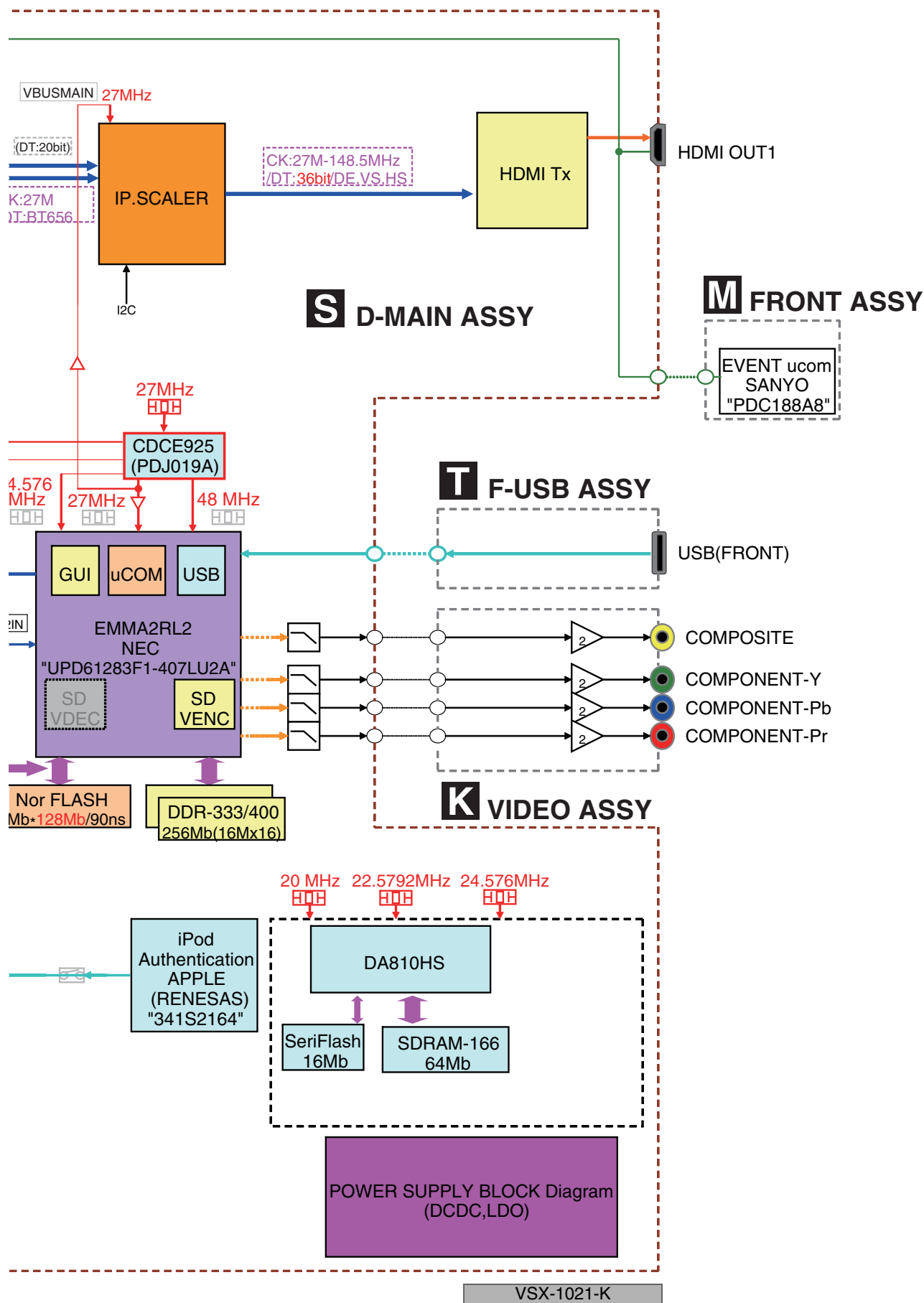
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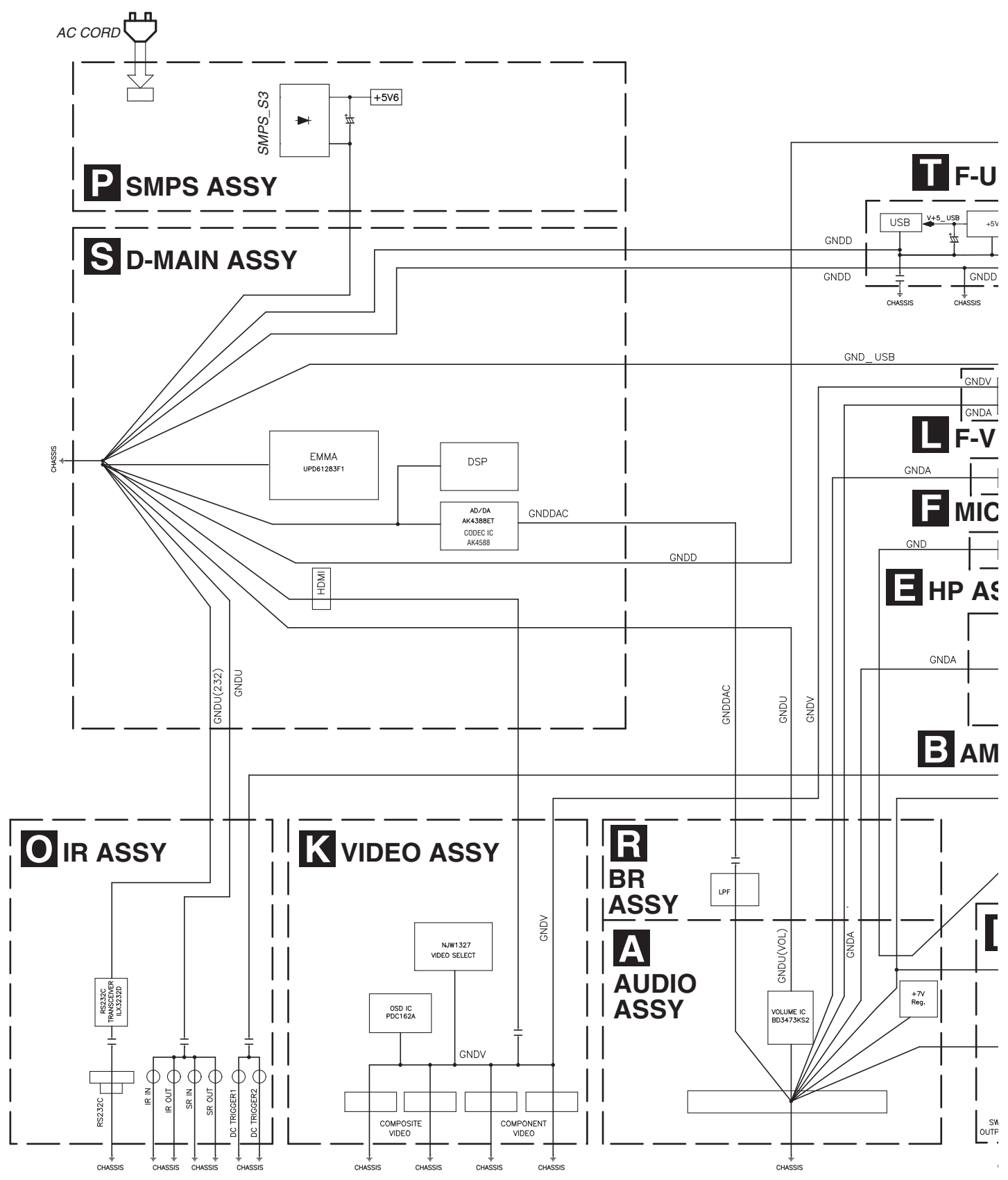
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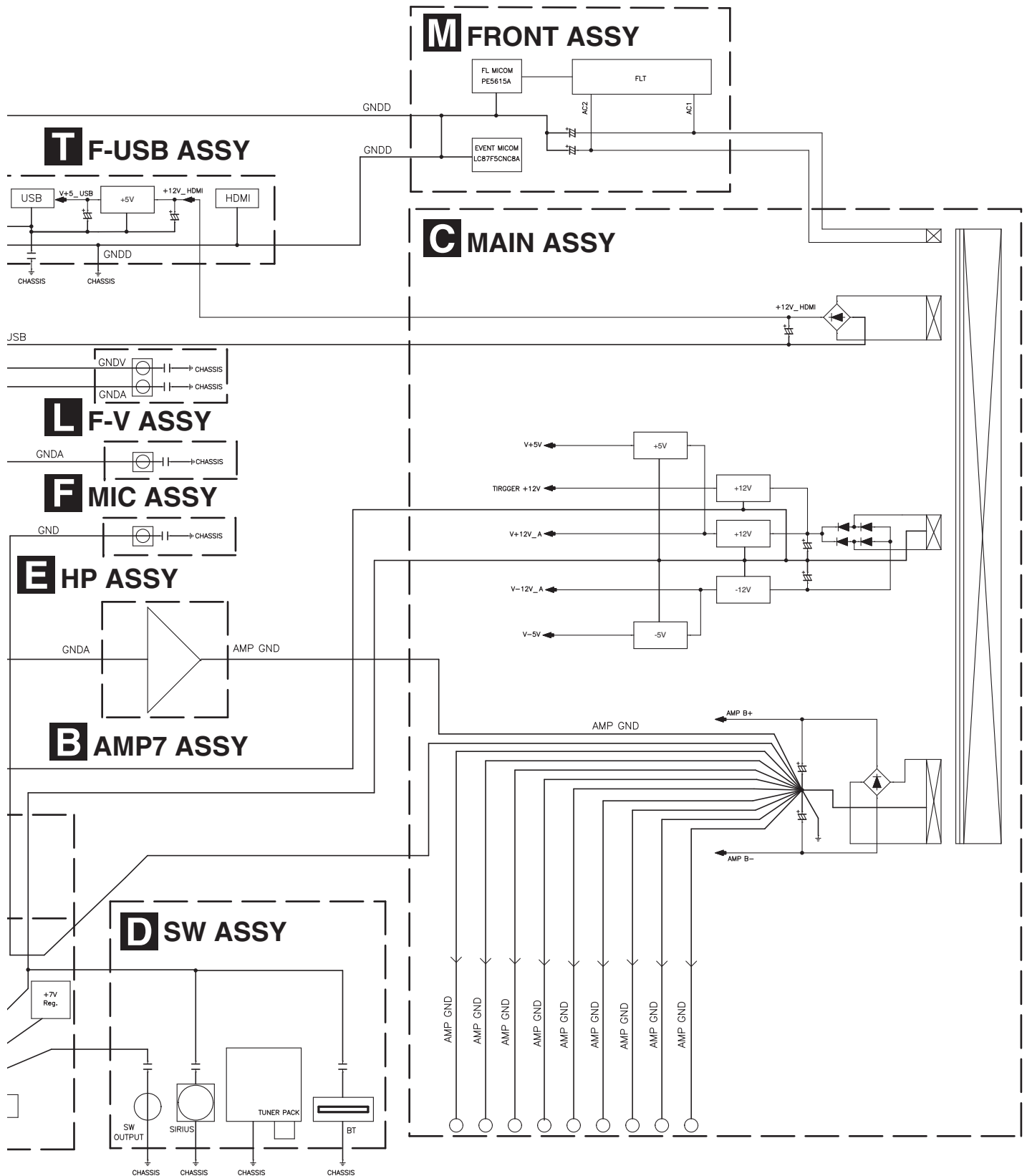




4.6 GND BLOCK DIAGRAM

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5. DIAGNOSIS

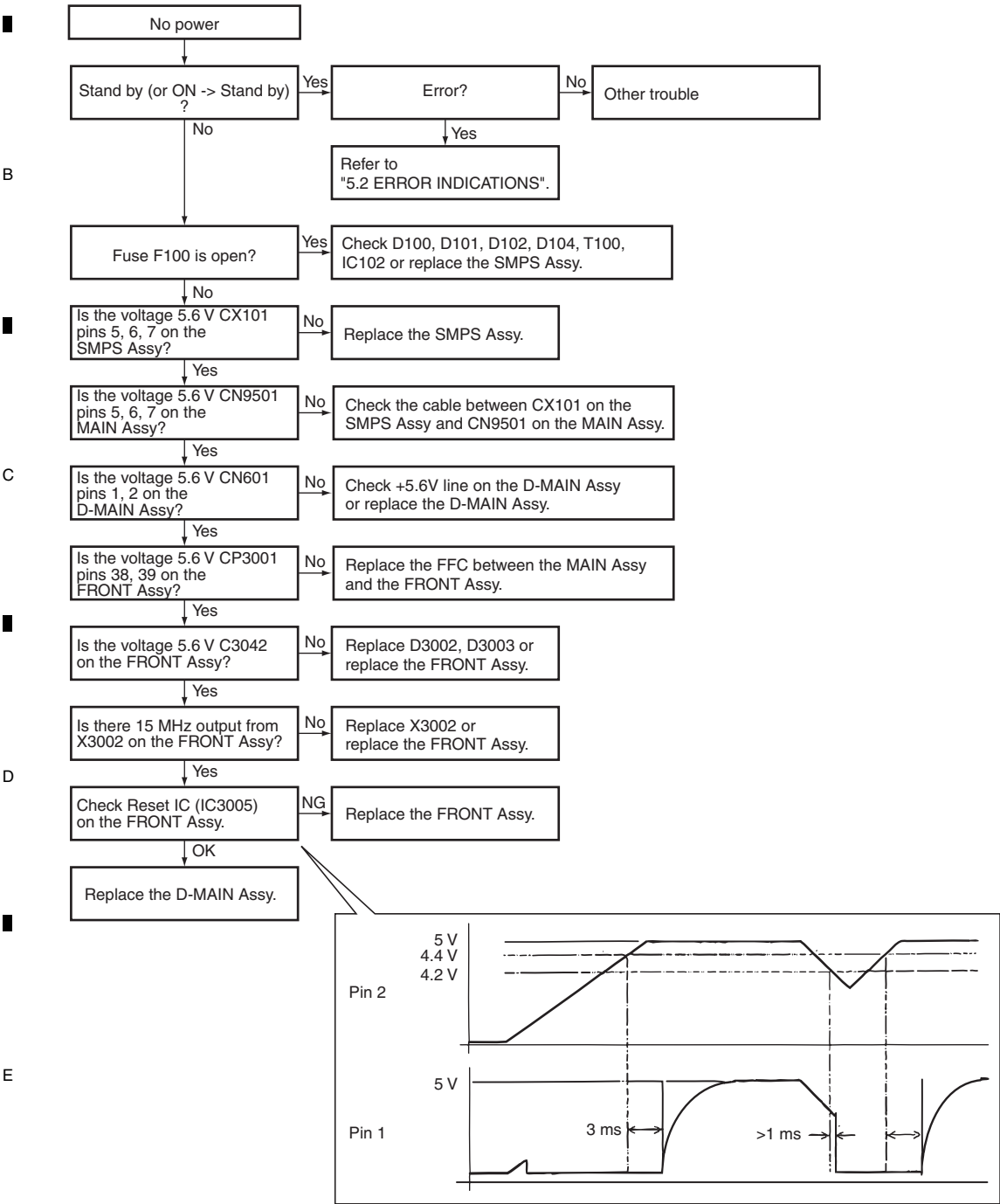
5.1 DIAGNOSIS FLAWCHART

A

[1] Main Unit

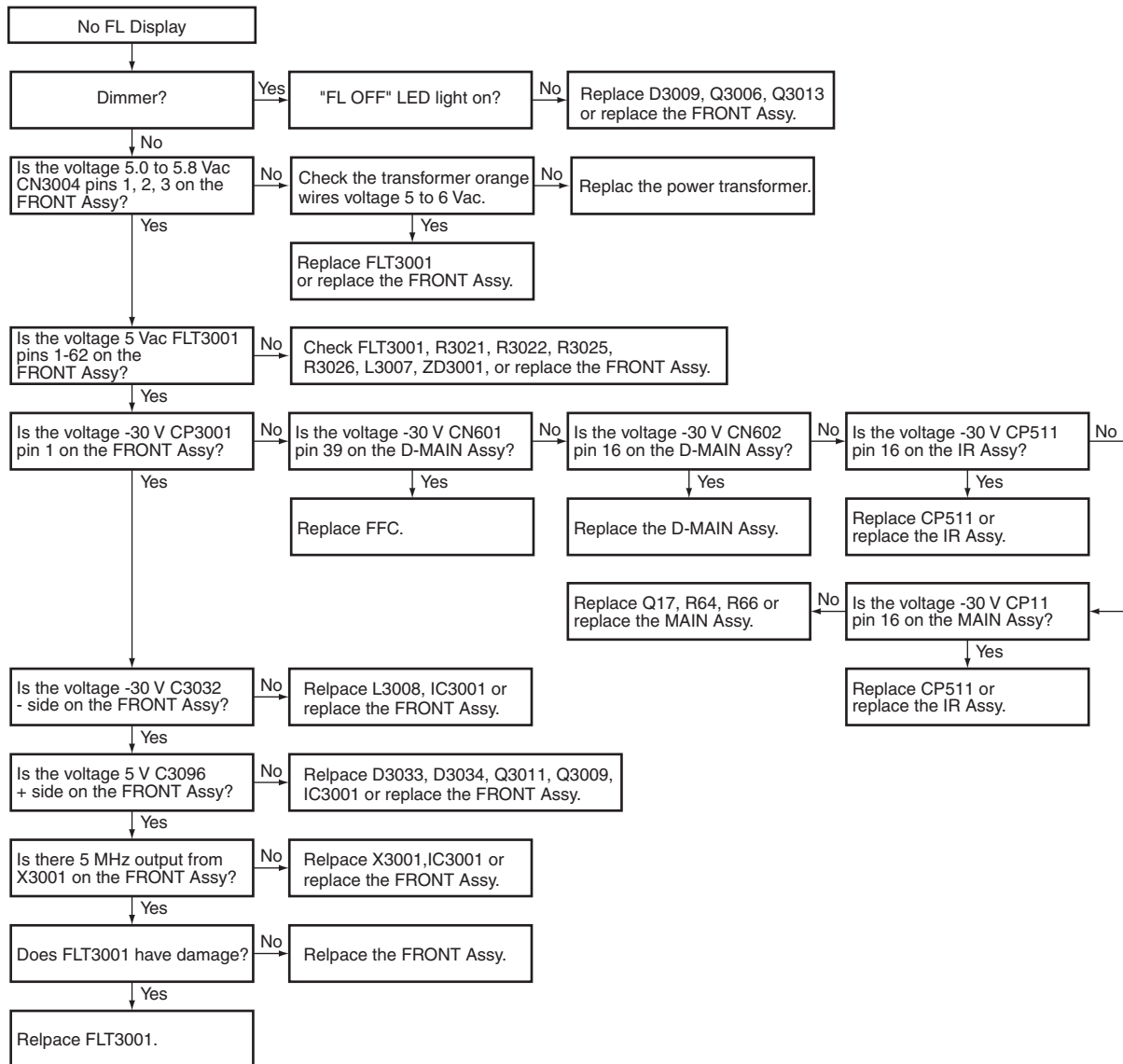
Step 1: No Power

The contents which are usually thought about are listed in this diagnosis flow, that may not fulfill all trouble including a rare case.



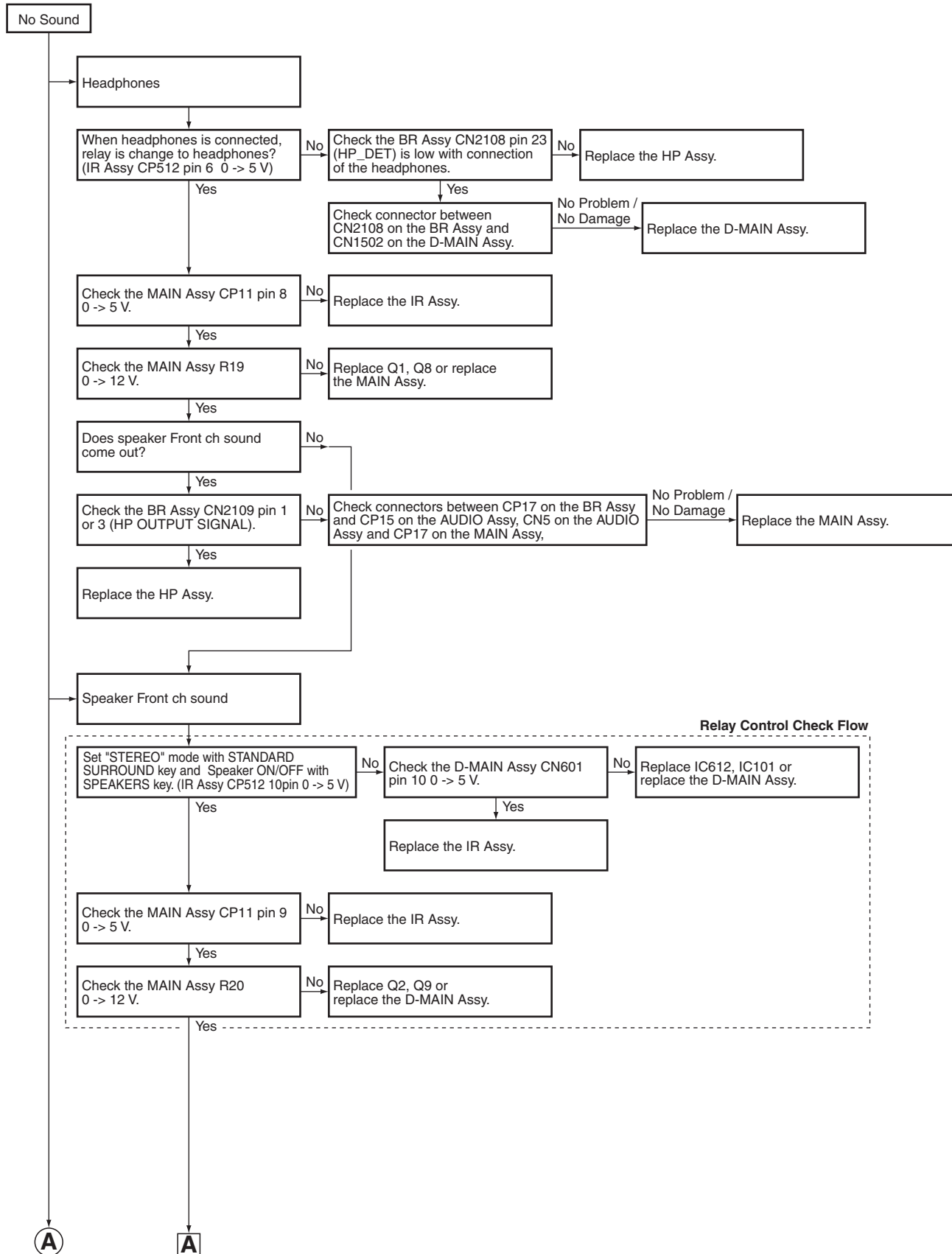
Step 2: No FL Display

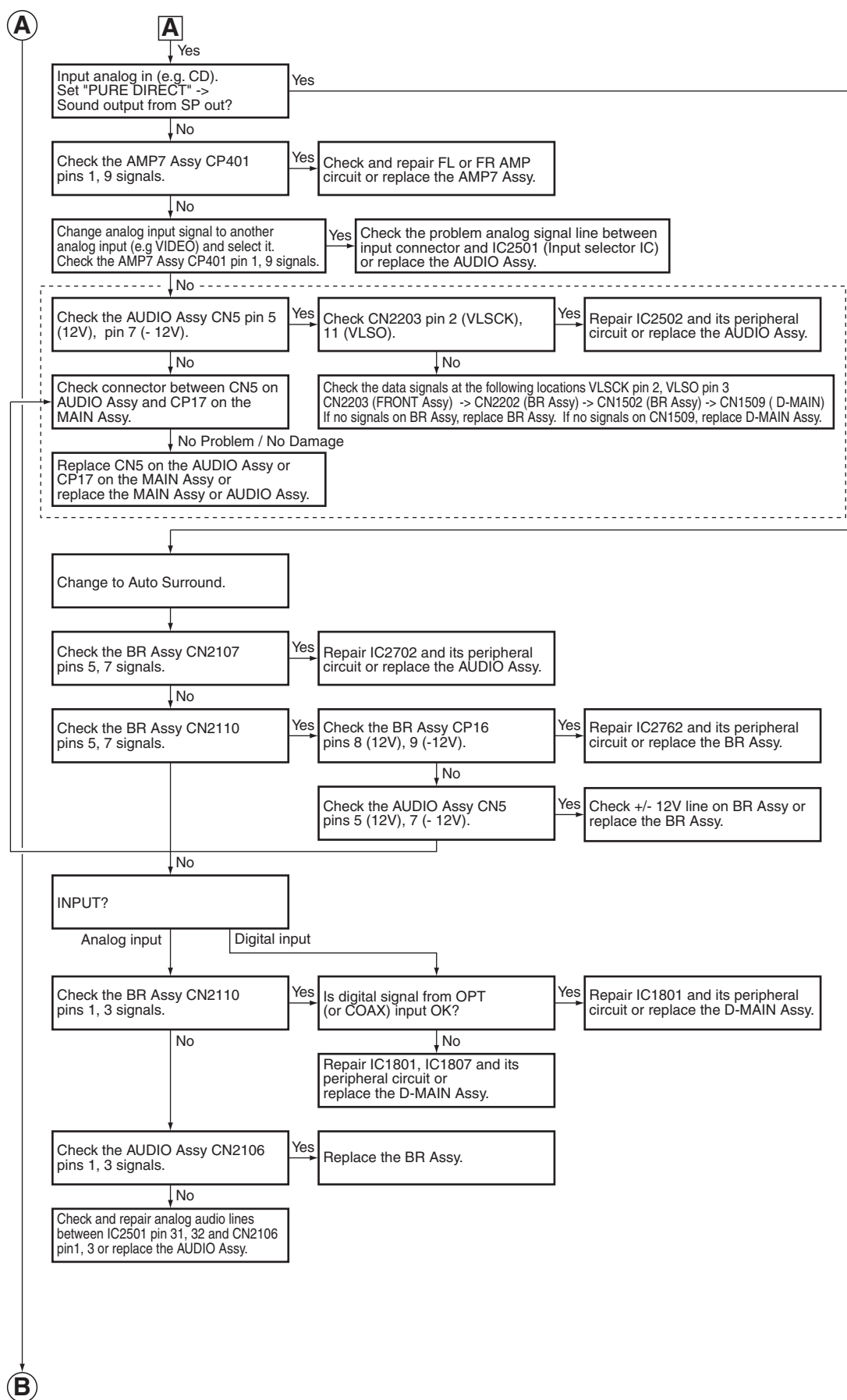
The contents which are usually thought about are listed in this diagnosis flow, that may not fulfill all trouble including a rare case.



Step 3: No Sound

The contents which are usually thought about are listed in this diagnosis flow, that may not fulfill all trouble including a rare case.





A

B

Speaker C (S SB SP-B etc) ch
(Front LR is OK)

Check SP System menu is appropriate
and connected speakers are not
selected [No] on SP Setting menu.

No

Change SP System and SP
Setting to correct setting.

Yes

Check Selection of Speaker system
by [SPEAKERS] key on front panel
is correct.

No

Change SP selection to correct
setting by [SPEAKER] key.

Yes

Select Surround mode to
EX. STEREO in Advanced Surround.

Yes

Check relay operating of problem ch.
(refer to schematic diagram and Relay
Control Check flow for Front ch)

C

Check signals of problem channel on
AMP7 Assy CP401 pins 3 (SL), 5 (C),
7 (SR), 11 (SBL), 13 (SBR) signals.

Yes

Check and repair AMP circuit of
problem channels
or replace the AMP7 Assy.

No

Check signals on BR Assy CN2107
pins 9 (SR), 11 (SL), 13 (SW),
15 (C), 17 (SBR), 19 (SBL) signals.

Yes

Replace AUDIO Assy or
their peripheral circuit.

No

Check signals on BR Assy CN2110
pins 9, 11, 13, 15, 17, 19 signals.
(Pin assign is same as CN2107)

Yes

Repair IC2742, IC2704, IC2782
and their peripheral circuit
or replace the BR Assy.

No

Input PCM to COAX in or OPT in,
set Auto Surround.
Is Front LR SP output sound is OK?

Yes

Replace the D-MAIN Assy.

No

Repair IC1801 and its peripheral
circuit or replace the D-MAIN Assy.

D

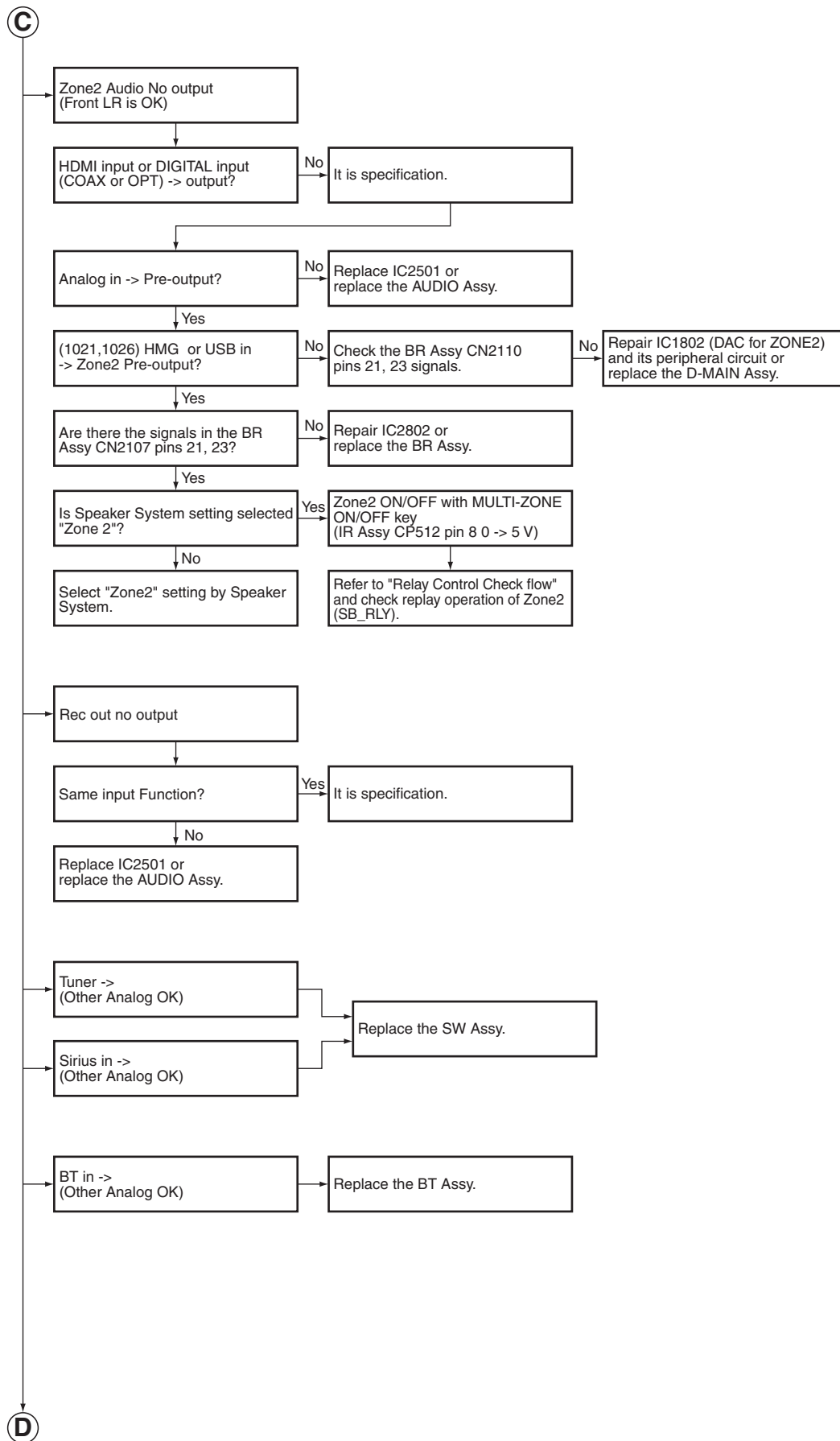
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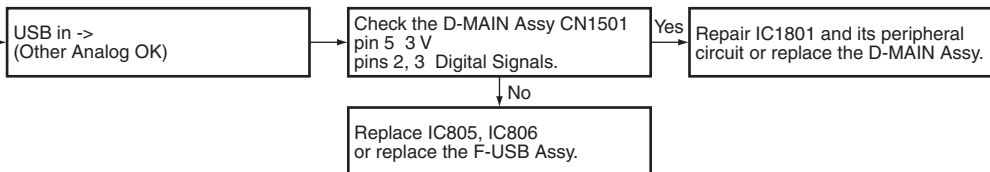
Speaker System Menu	
Setup name	Output sound
Speaker B	SP-B
Normal (SB/FH)	Front High or SB
Normal (SB/FW)	Front Wide or SB

[If Speaker System is "Normal (SB/FH)" or
"Normal (SB/FW)" and speaker setting by
SPEAKER key is "SP: SB ON", there is no
sound from FH or FW.

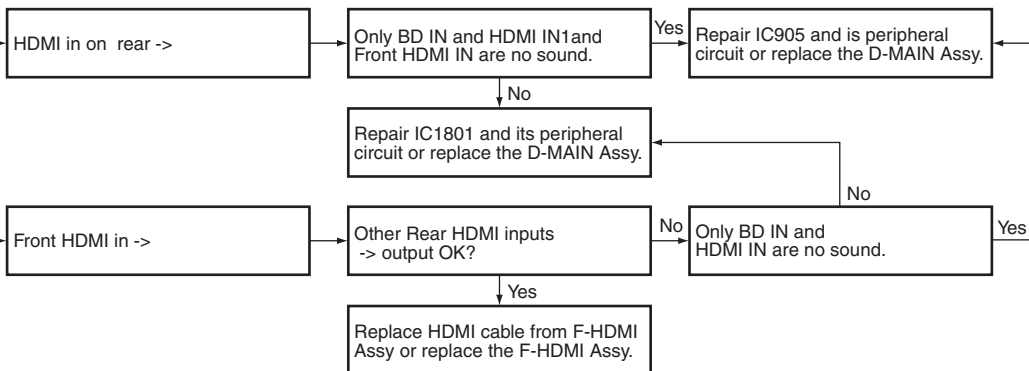


A

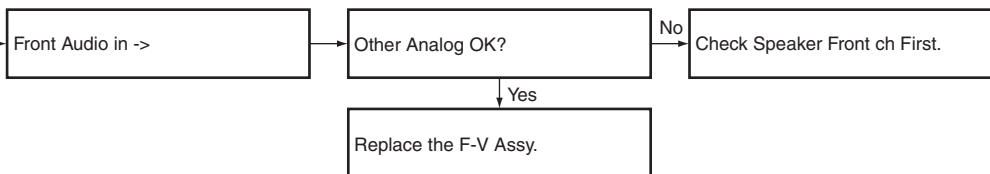
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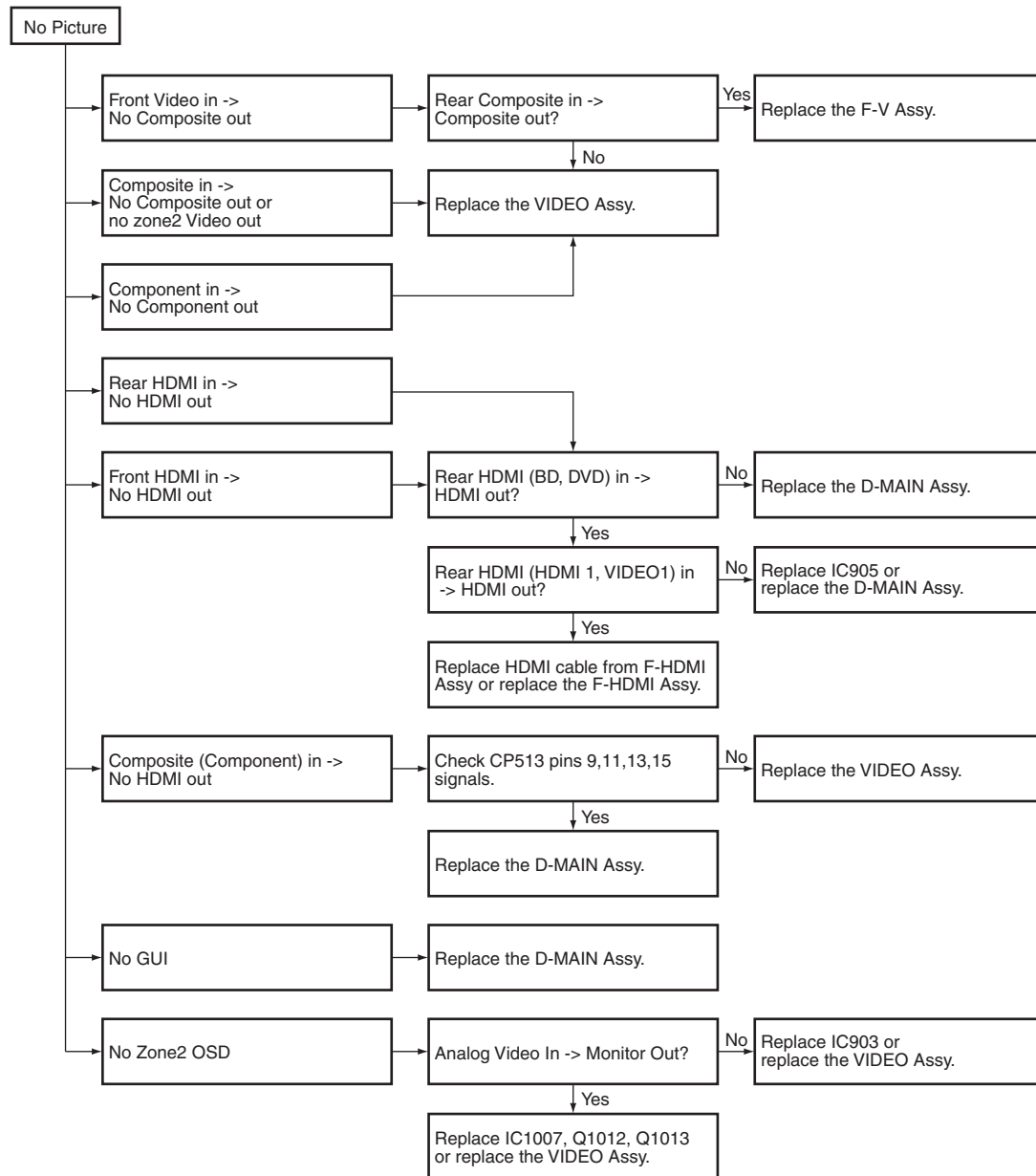
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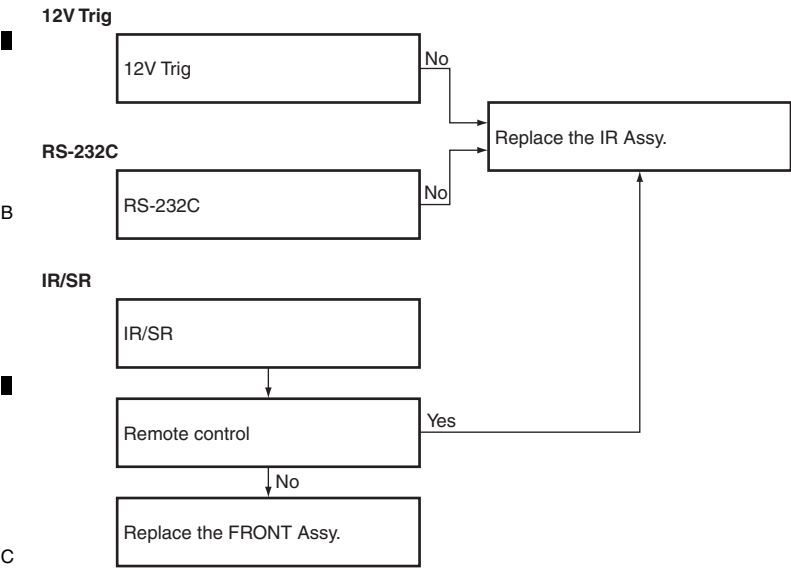
Step 4: No Picture

The contents which are usually thought about are listed in this diagnosis flow, that may not fulfill all trouble including a rare case.



A **Step 5: Others**

The contents which are usually thought about are listed in this diagnosis flow, that may not fulfill all trouble including a rare case.



D

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5.2 ERROR INDICATIONS

Error Indications When an Abnormality in The Amplifier System is Detected

[Purpose]

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

[Error Indications]

Item	FL Display	LED Flashes	NG Count.	Detection Method	Process After Detection	Description / Remarks
"AMP DC" ("DC output from SP term") detection	Flashing "AMP ERR" for 3 seconds	MCACC LED	DC	XDCERR (Pin 80 of IC3004) Detect "L"	1) Muting on, speaker relay off. 2) "AMP ERR" flashing 3) Shutdown after 3 seconds. 4) "MCACC" LED flashing 5) Power on is not acceptable.	To detect high DC output from amplifier damage (defect status). A process to protect speakers (for protection of connected external devices). For checking, refer to "How to enter release mode" below. If the DC detection port become "H" for 3 seconds, the unit will returns to normal condition automatically.
"AMP overload" detection.	N/A	iPod LED	OL	XOLERR (Pin 71 of IC3004) Detect "L"	1) Muting on, speaker relay off. 2) Shutdown immediately. 3) "iPod" LED flashing 4) Power on is acceptable.	To detect overloading (abnormal status) with low-load driving or a short circuit of the speaker terminals (for protection of the amplifier).
"Over Heat" detection.	Flashing "AMP OVERHEAT" for 3 seconds	FL OFF LED	STMP	TEMPERR5 (Pin 72 of IC3004) Detect "H" (REDI _DET)	1) Muting on, speaker relay off, 2) "OVERHEAT" flashing 3) Shutdown after 3 seconds. 4) "Center Blue" LED flashing 5) Power on is acceptable after 1 minute.	To detect overheat of inner temperature.
"Abnormality DC voltage of the Digital power supply" detection	N/A	PQLS LED	DERR	XVDDERR (Pin 70 of IC3004) Detect "L"	1) Muting on, speaker relay off. 2) Shutdown immediately. 3) "PQLS" LED flashing 4) Power on is acceptable.	To detect the abnormality voltage of Digital power supply circuit for the D-MAIN Assy.
"USB Overload" detection	"Over Current" No Flashing	N/A	N/A	USB ERR (Pin M3 of IC101) Detect "H"	1) Bass Power off 2) Display "Over Current" 3) Power on is acceptable	To detect the connected USB device is overload. (over 2.1 A)
"BT Adapter overload" detection.	"ADP OVERLOAD" No Flashing	N/A	N/A	BTOL (Pin N3 of IC101) Detect "H"	1) Adapter port power off 2) Display "ADP OVERLOAD"	To detect the connected Blue Tooth Adapter device is overload. (over 100 mA)
"HDCP of HDMI Error" detection	Flashes "HDCP ERROR" for 5 seconds	N/A	N/A	Read Register value	1) Display "HDCP ERROR"	The monitor does not support HDCP type or is in standby mode. (Warning indication for HDMI Simplay)
"Analog Input Over" detection	"OVER" Icon lights 1 second	N/A	N/A	DSP firmware Detect	While the Icon lights 1 second, when there is no ANALOG INPUT OVER detection, the Icon stops lighting and returns to normal display.	To detect the over-input of the analog audio to the A/D converter. When the Icon lights frequently, output level of the source equipment is high and a sound is distorted. Turn on the Analog Att switch.
Analog POWER SUPPLY Error	N/A	FL OFF LED	XPRT	XPROTECT (Pin 83 of IC3004)	Power off	Power-on impossible for 1 min.
"Over Heat" detection	N/A (VOL LEVEL)	N/A	N/A	TEMP L (TR_DET) (Pin 81 of IC3004)	VOL 3 dB down	After this error is detected, the system will not operate for 2 min.
"WiFi Over Current" detection	LAN OVER LOAD	N/A	N/A	XWUSB ERR (#AC23 of IC101)	WUSBPOW is set to L.	To detect the connected WiFi Adapter device is overload. (over 600 mA)

[How to Enter Release Mode]

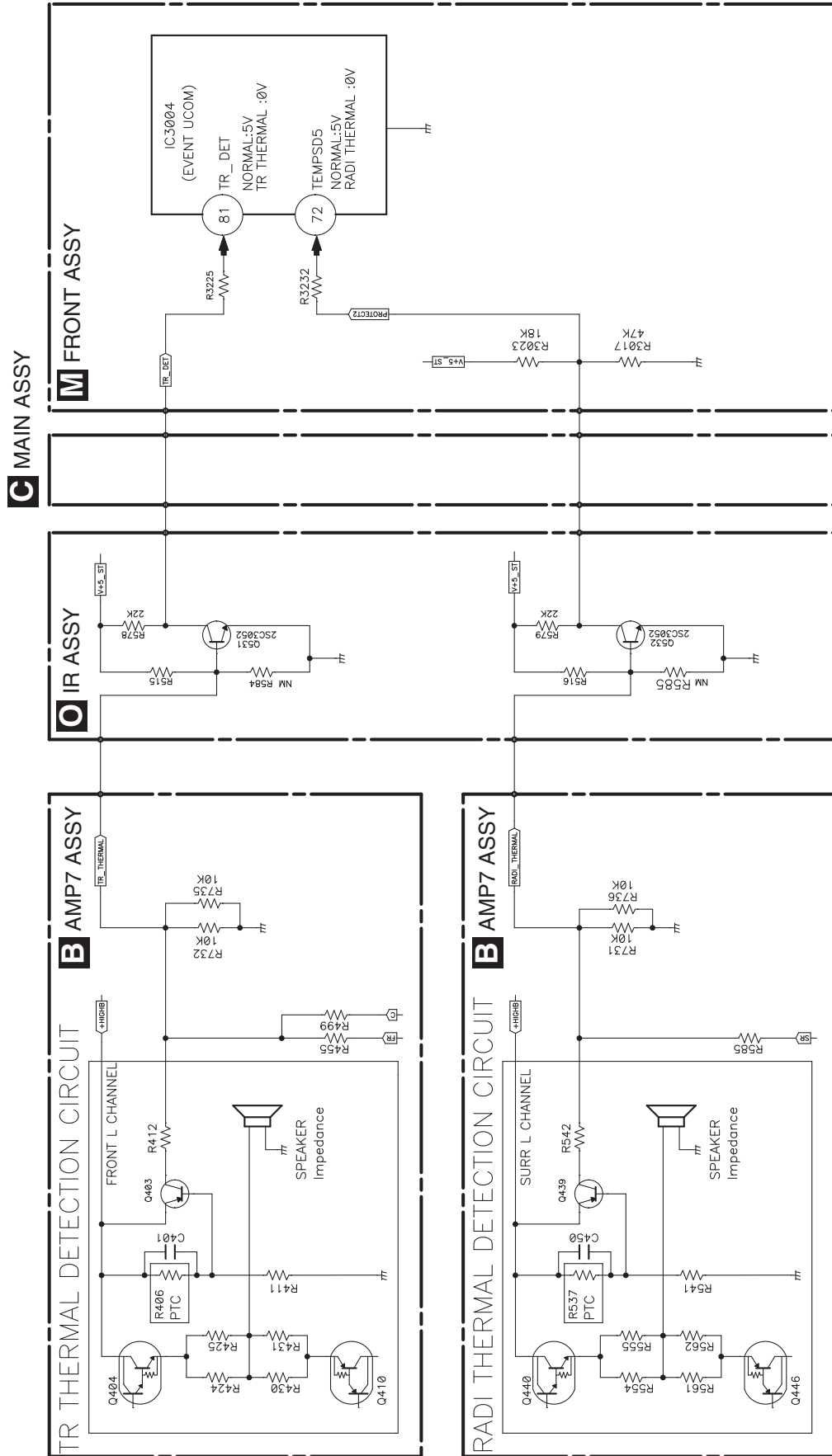
During Standby mode, simultaneously press and hold the "TUNE ↓" and "MULTI-ZONE ON/OFF" keys for 5 seconds.

△

A



[2] TEMP Protection Circuit



6. SERVICE MODE

6.1 TEST MODE

A

[1] Detected protection history

[Purpose]

The numbers of detections for various protection processes are displayed.

[How to enter]

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

[How to exit]

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

B

[Basic operations]

C

D

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F

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 Power abnormality is detected.	XPRT : ***
[↓] [↑]	
Display number of times AMP overheat is detected.	STMP : ***
[↓] [↑]	
Display number of times Digital Power abnormality is detected.	DERR : ***
[↓] [↑]	
Resetting the number of times error is detected.	RESET ◀HOLD▶
[↓] [↑]	

Front Panel Key

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

Resetting the number of times error is detected

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

Key operation	FL display
Display accumulated time & RESET. [↓] [↑]	1 2 3 4 5 h 2 0 m ◀ H L D ▶
Display CEC(TEST) state. [↓] [↑]	CEC ◀ OFF ▶
Display FAN(TEST) state. This function does not work on this model. [↓] [↑]	FAN ◀ OFF ▶
USB Backup state [↓] [↑]	USB BAK ◀ HOLD ▶
Display Model Name/Destination state. [↓] [↑]	VSX-1021/UXCNC
Change cyclically	

[Description]

CEC TEST : The function for making the HDMI output terminal to output 4 Hz 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.

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	

Display CEC(TEST) state.

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

Saving and Loading of USB backup state.

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

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

7. DISASSEMBLY

Note:

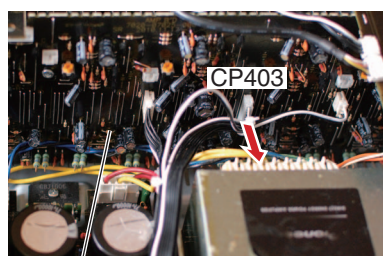
- (1) Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.
- (2) For performing the diagnosis shown below, the following jigs for service is required:
 - Board to board extension jig cable (GGD1735)
 - Board to board extension jig cable (GGD1736)
 - 7P extension jig cable (GGD1737)
 - 13P extension jig cable (GGD1740)
 - 5P extension jig cable (GGD1741)

1. Discharging

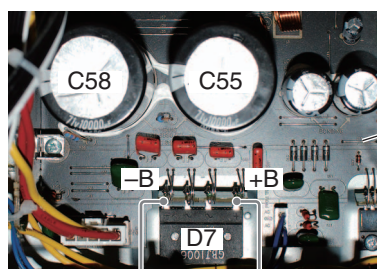
[1] MAIN Assy Capacitor (C55, C58)

[Procedures]

- (1) Unplug the power cord.
- (2) Disconnect the 10P connector from CP403 of the AMP7 Assy between CN3 of the MAIN Assy.
- (3) Connect +B and -B terminal of the D7, using resistor leads with 47 - 100 ohms (2 W or higher), for discharging.
 - * Discharging time: 30 - 60 seconds, depending on the level of resistance.
- (4) Check that the voltage between the +B and -B terminals is less than 1 V, using a tester.
 - * Be sure to connect the GND terminal of the tester to the chassis.
 - * If the voltage is still 1 V or higher, repeat Step (3).



AMP7 Assy



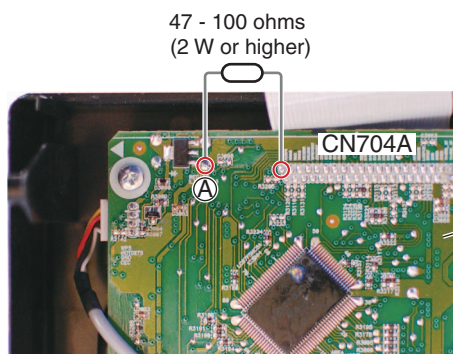
MAIN Assy

47 - 100 ohms
(2 W or higher)

[2] FL-30 V Capacitor

[Procedures]

- (1) Unplug the power cord.
- (2) Connect CN704A pins 1 (-30V) of the FRONT Assy and GND terminal ①, using resistor leads with 47-100 ohms (2 W or higher), for discharging.
 - * Discharging time: 5 - 10 seconds, depending on the level of resistance.
- (3) Check that the voltage between the -30V terminal is less than 1 V, using a tester.
 - * Be sure to connect the GND terminal of the tester to the chassis.
 - * If the voltage is still 1 V or higher, repeat Step (2).



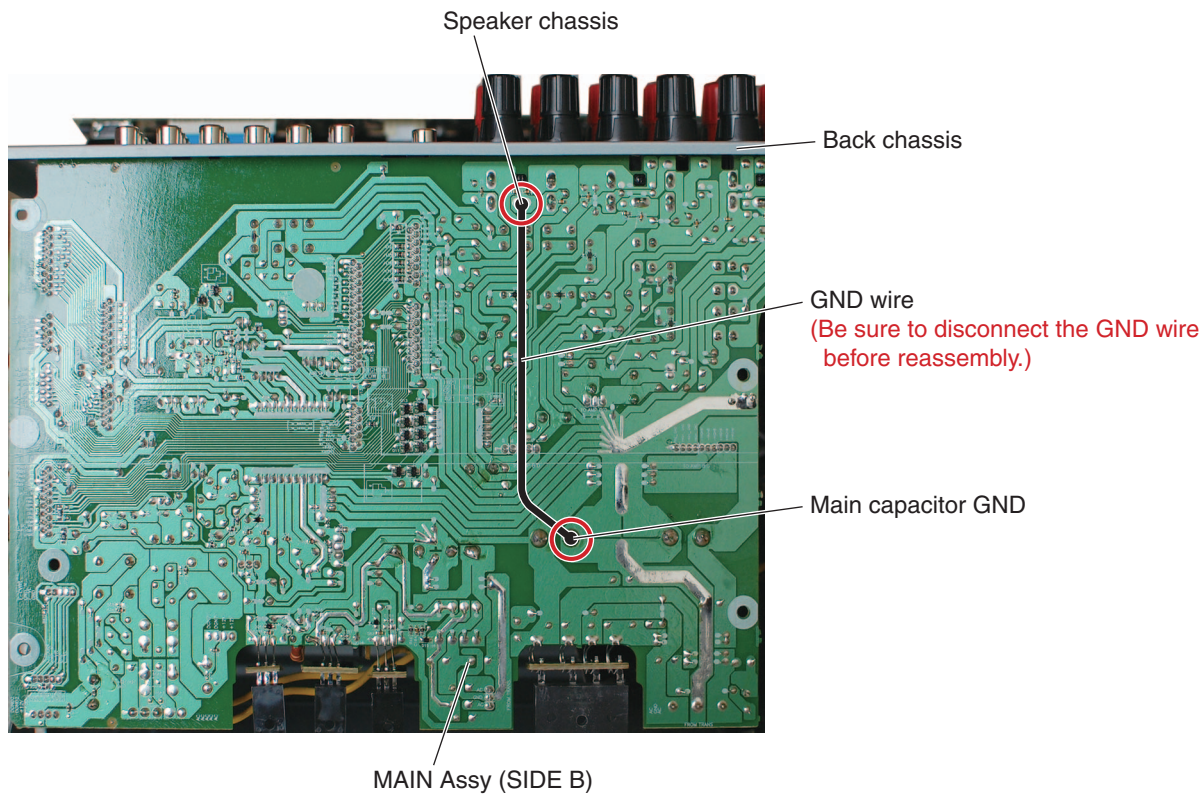
FRONT Assy

2. Notes on Ground Points Connection

[Note]

During repair, before checking the MAIN Assy, etc., with the rear chassis removed, be sure to connect the GND terminal of the main capacitor to the back chassis (speaker chassis), as shown below, then connect the power cord.

**Without grounding connection, the protection circuit will be activated.
After repairing, be sure to remove the ground wire before reassembling.**



3. Disassembly

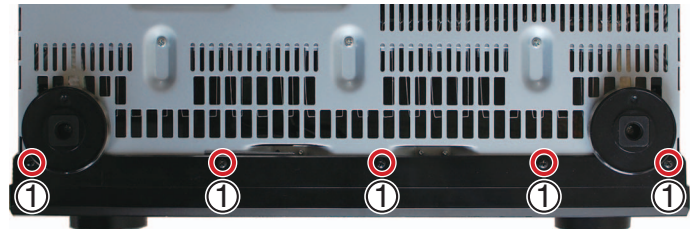
NOTE:

Although a HDMI cable and a connector shows on some pictures of the following disassembly section, this model (VSX-1021-K/UXCNCB) does not have them because there is no HDMI front input. However some other models which are designed based on this model have HDMI cable and connector on D-MAIN Assy. Therefore when repairing these models, please refer to the following information (styling info of HDMI cable and some cautions.)

[1] Front Panel Section

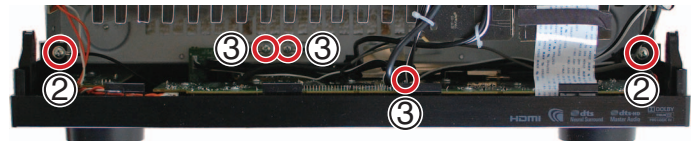
Remove the cabinet by removing the 10 screws.

- (1) Remove the five screws. (BBZ30P080FTB)

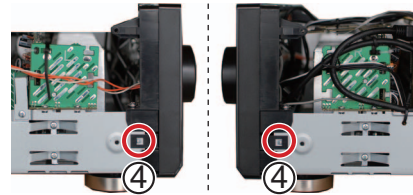


• Bottom view

- (2) Remove the two screws.
(1500001206010-IL)
(3) Remove the three screws. (BBZ30P080FTC)

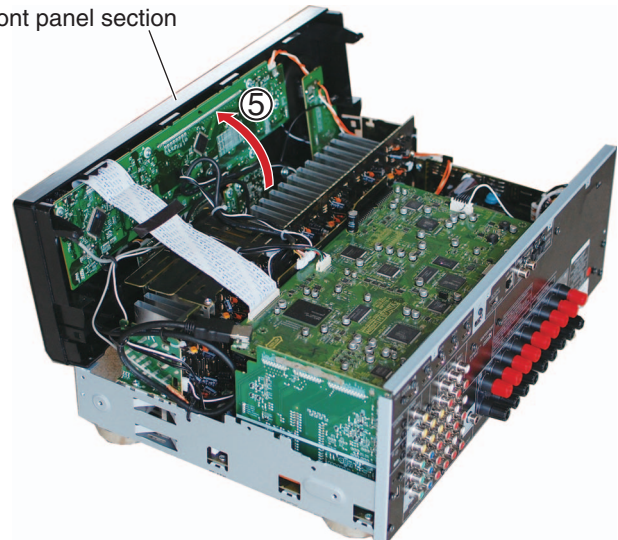


- (4) Unhook the two hooks.



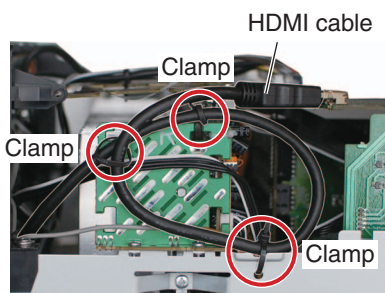
- (5) Arrange the front panel section as shown in the photo below.

Front panel section



• HDMI cable styling

The F-HDMI input is not provided for the VSX-1021-K/UXCNCB. Styling of the cables other than the HDMI cable remains the same (without the HDMI cable).

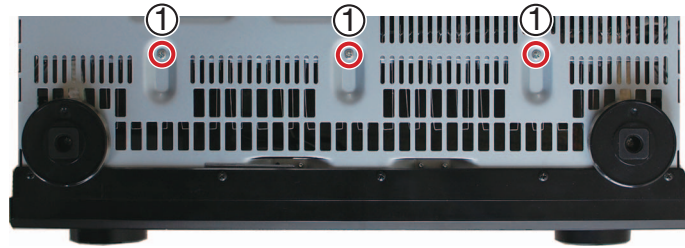


A [2] Heatsink Section

Caution: Heatsink section in work becomes hot, and be careful with it.

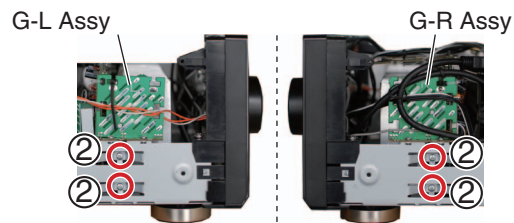
Remove the cabinet by removing the 10 screws.

(1) Remove the three screws. (BBZ30P080FTC)



• Bottom view

(2) Remove the four screws. (BBZ30P080FTC)



(3) Remove the four screws. (BBZ30P080FTC)

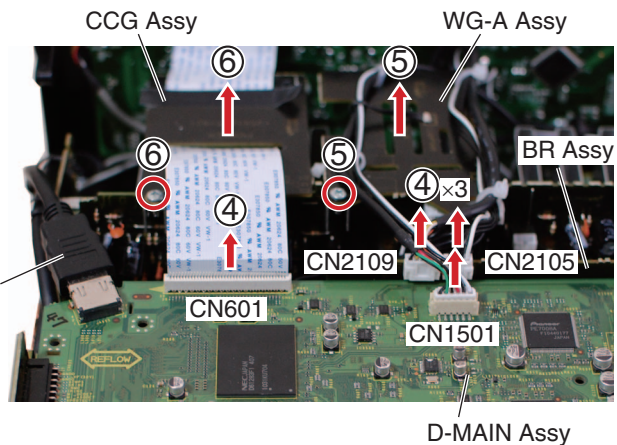


(4) Disconnect the one flexible cable and three connectors. (CN601, 1501, 2105, 2109)

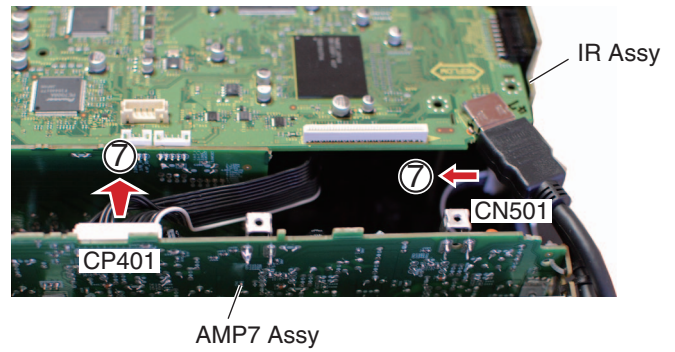
(5) Remove the one screw and remove the WG-A Assy. (BBZ30P080FTC)

(6) Remove the one screw and remove the CCG Assy. (BBZ30P080FTC)

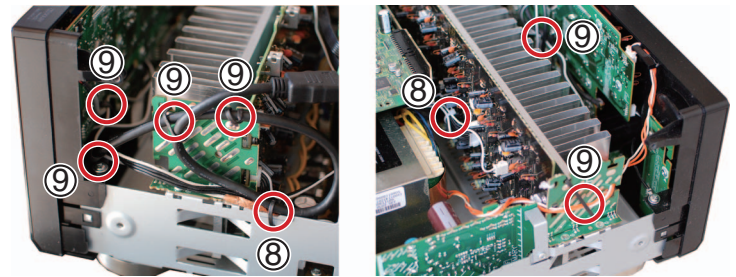
Note:
VSX-1021-K/UXCNCB does not use HDMI cable.



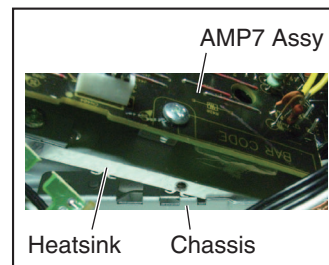
- (7) Disconnect the two connectors.
(CP401, CN501)



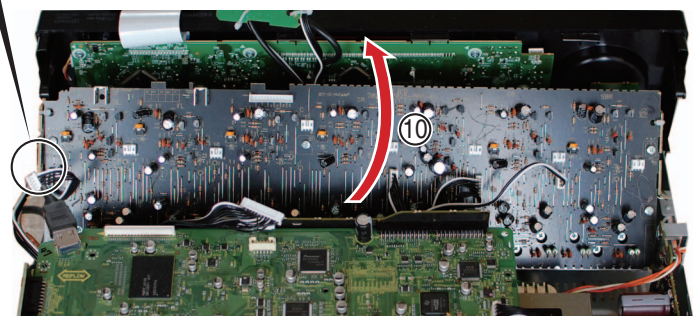
- (8) Cut the two binders.
(9) Release the six clampers.



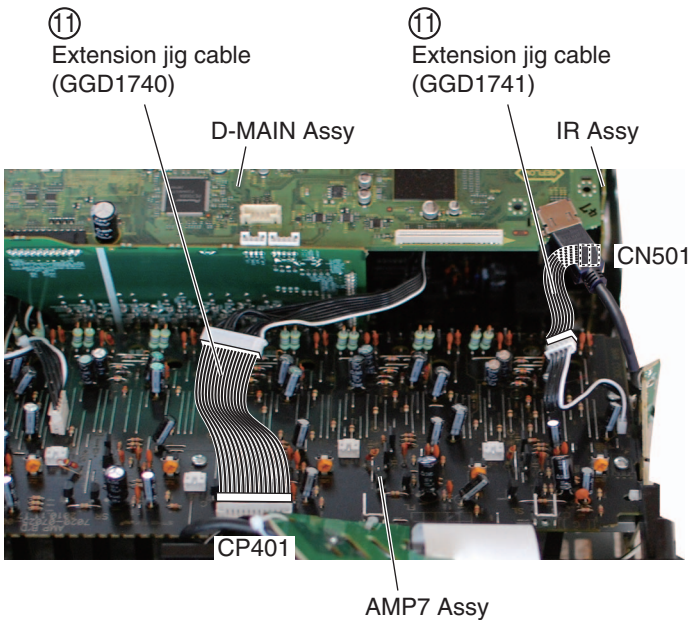
- (10) Rotate the heatsink section in the direction of the arrow.



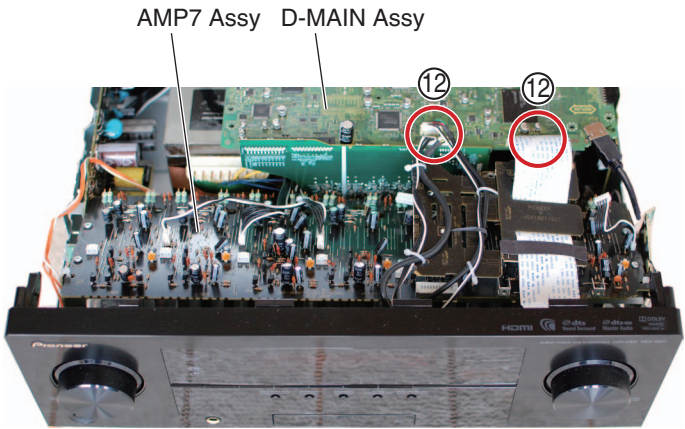
Put the heatsink on the chassis.



A
(11) Connect the two extension jig cables.



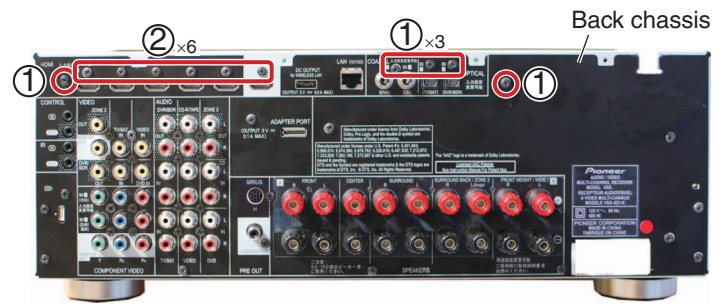
D (12) Reconnect the one flexible cable and three connectors which you disconnected in step (4).



[3] D-MAIN Assy

Remove the cabinet by removing the 10 screws.

- (1) Remove the five screws. (BBT30P100FTB)
- (2) Remove the six screws. (BSZ30P040FTB)



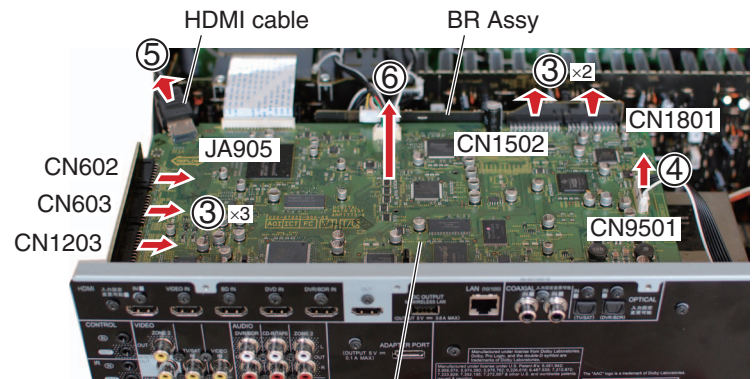
• Rear view

- (3) Disconnect the five B to B connectors. (CN602, 603, 1203, 1502, 1801)
- (4) Disconnect the one connector. (CN9502)
- (5) Disconnect the HDMI cable. (JA905)

Caution:

Because an HDMI connector might be broken, diagnose HDMI cable without reconnecting it. (VSX-1021-K/UXCNCB does not use HDMI cable.)

- (6) Remove the D-MAIN Assy.

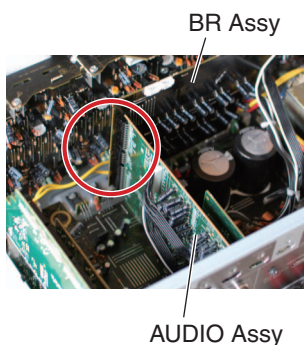


D-MAIN Assy

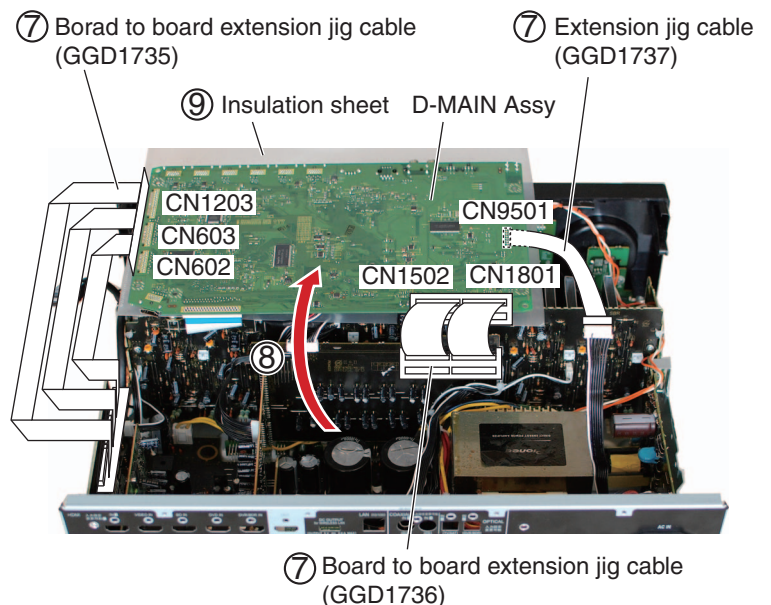
- (7) Connect the three extension jig cables.
- (8) Arrange the D-MAIN Assy in the photo below.
- (9) Insert any insulation sheet.

Note:

Confirm that a B to B connector of BR Assy is connected to AUDIO Assy tightly.



AUDIO Assy



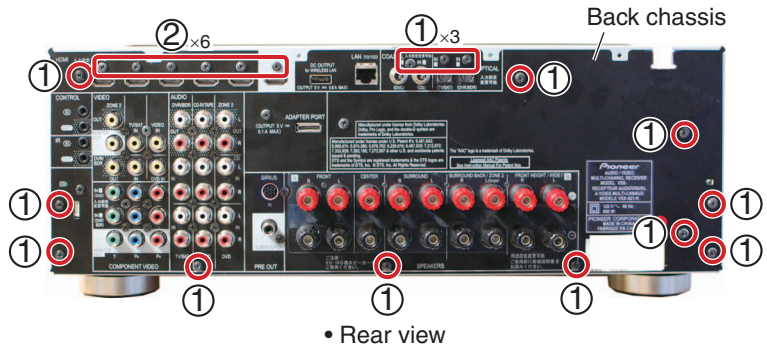
Board to board extension jig cable (GGD1736)

A [4] MAIN Assy

Remove the cabinet by removing the 10 screws.

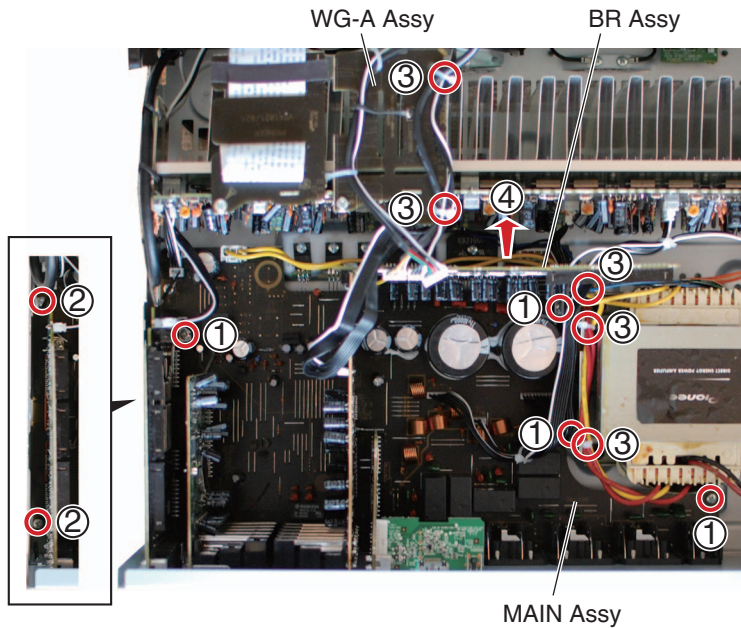
[4-1] Back chassis, D-MAIN Assy

- (1) Remove the 14 screws. (BBT30P100FTB)
- (2) Remove the six screws. (BSZ30P040FTB)
- (3) Remove the D-MAIN Assy.
(See procedure [3].)

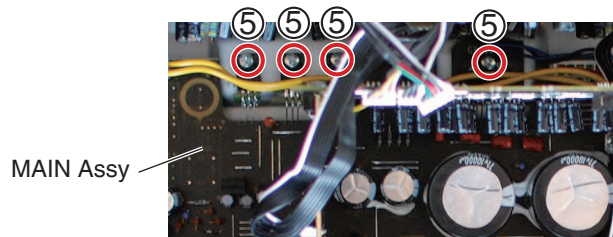


[4-2] MAIN Assy

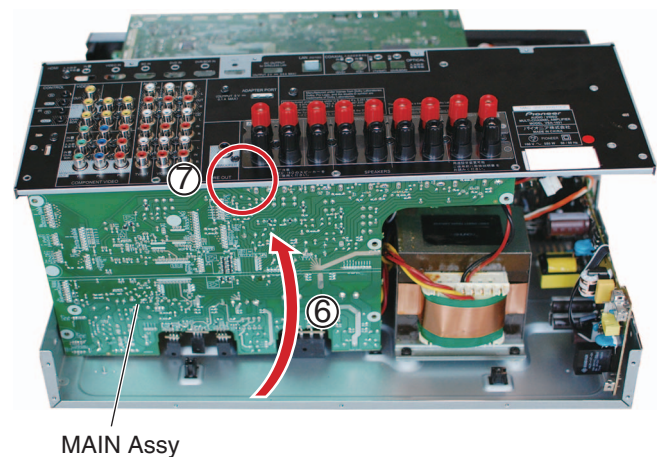
- (1) Remove the four screws. (BBZ30P180FTC)
- (2) Remove the two screws. (BBZ30P080FTC)
- (3) Cut the five binders.
- (4) Remove the BR Assy.



- (5) Remove the four screws. (BBZ30P080FTC)



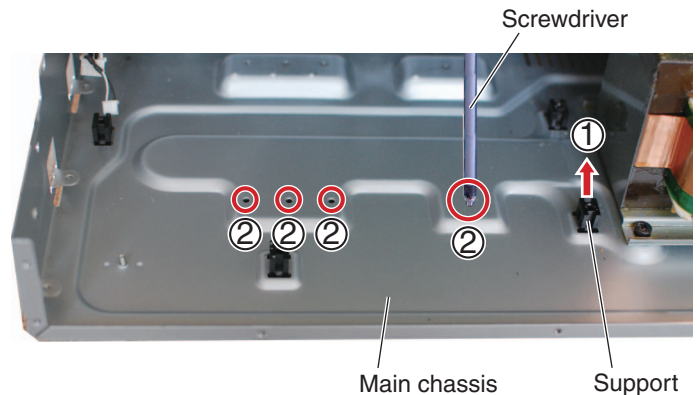
- (6) Arrange the unit as shown in the photo below.
 (7) Connect the chassis ground.
 See "2. Notes on Ground Points Connection".



MAIN Assy

[4-3] Regulator ICs and Rectifier diode

- (1) Remove the support.
 (2) Tighten then loosen the screw in each of the four holes for temporary joining that are located on the rear side of the main chassis. (This is for shaving the thread grooves to facilitate attachment in the next step.)



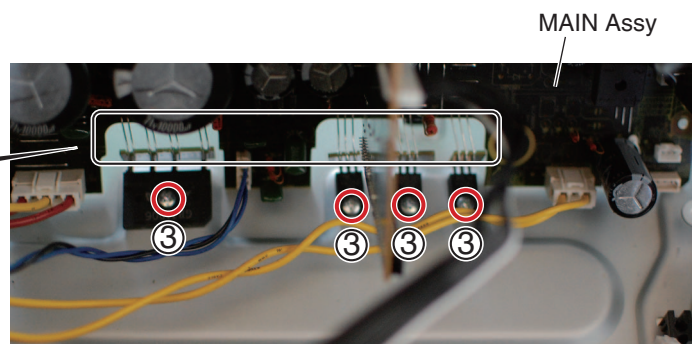
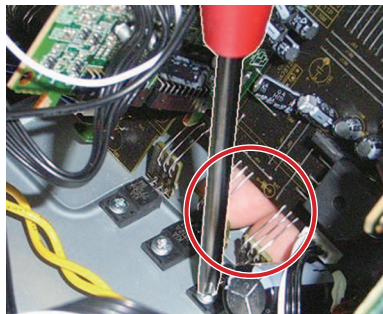
Main chassis

Support

- (3) Attach the three regulator ICs and a rectifier diode to the holes tapped in Step (2). Be sure to place them in a direction perpendicular to the board and take care that the jumper wires will not become distorted.

Note:

While securing the regulator ICs and rectifier diode to the holes for temporary joining, tighten the screws while holding the regulator ICs and rectifier diode with your fingers so that the jumper wires will not become distorted.



MAIN Assy

A [4-4] Diagnosis

- (1) Reassemble the BR Assy.
- (2) Reassemble the D-MAIN Assy with extension jig cables. (See procedure [3].)
- (3) Insert any insulation sheet between D-MAIN Assy and back chassis.

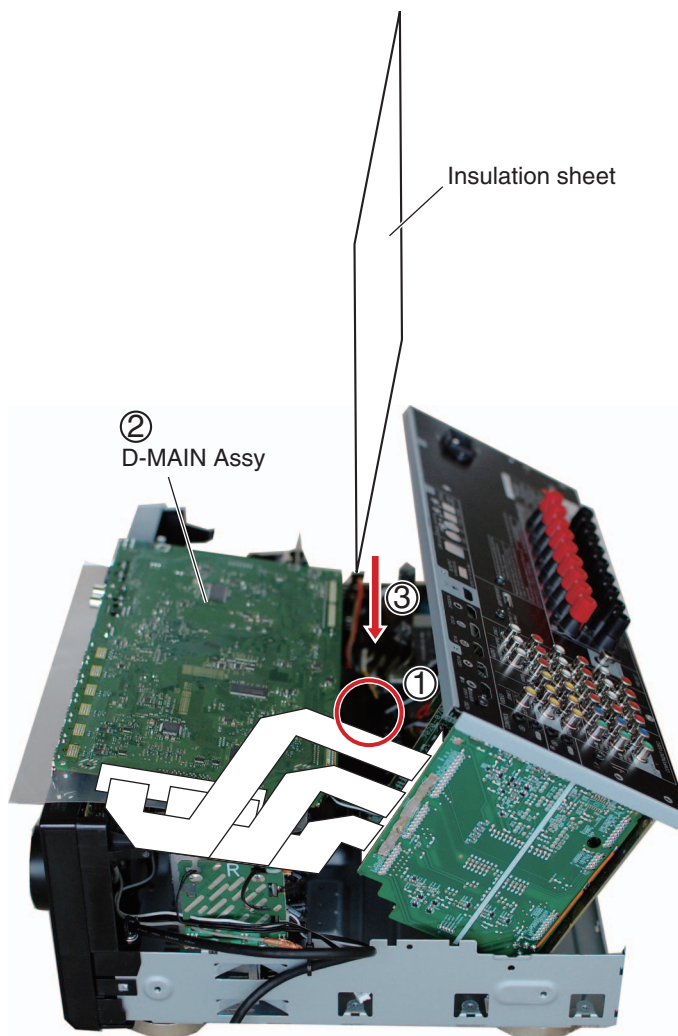
B

C

D

E

F



8. EACH SETTING AND ADJUSTMENT



- If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.
- Any value changed in Adjustment mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.
- Use a stable AC power supply.

8.1 ADJUSTMENT REQUIRED WHEN THE UNIT IS REPAIRED OR REPLACED

■ When any of the following assemblies is replaced

AMP7 Assy	➡	"8.4 IDLE CURRENT ADJUSTMENT" (All channel)
D-MAIN Assy	➡	"8.2 USB BACKUP"
Other assemblies	➡	No adjustment required

■ When any of the following parts is replaced

AMP7 Assy	➡	"8.4 IDLE CURRENT ADJUSTMENT" (Only channel of replacement parts)
D-MAIN 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. • IC101 (UPD61283F1-407LU2A) • IC903 • IC9204 (DM860) • IC1602 • IC9002 (D810K013BZKB400)
Other assemblies	➡	No adjustment required

8.2 USB BACKUP

[Introduction]

This model is capable of saving the set values stored in the MAIN Ucom of D-MAIN Assy in the USB and loading them in a new D-MAIN Assy. (Note that MAIN Ucom should normally operate to enable this function.)
When replacing D-MAIN Assy, execute the above mentioned processes.

[Data that can be saved/cannot be saved]

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

Contents to save	Destination to save
Last memory for turning ON/OFF the Main power and power supply for ZONE2 Last memory for inputting the Main power, ZONE2 Setting for controlling HDMI Remote control ID Setting for RF remote control (EXPANSION Setup) Setting for Network Standby Data to be save upon the operation of protection circuit	EVENT Ucom
Settings for HMG Preset Memory, Favorite, Recently played, Repeat	BridgeCo IC

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

[Requirements for USB memory]

USB memory to be used should meet the following requirements.

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

[File saving format]

Files are to be saved in the following format:

Example: VSX-1021_BK01.avr

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

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

*1. If the following errors occur after "SAVE" is executed, error message will be displayed and "SAVE" will be stopped and the power will be turned off.

- Ejecting of USB device
- Short capacity of USB device
- Error during writing in the USB device (Read Only or defective Sector, etc.)

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

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

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

* If the following errors occur after "LOAD" is executed, error message will be displayed and "LOAD" will be stopped and the power will be turned off.

- No setting file
- Mismatching between the setting file and the specification of the A/V RECEIVER type to be loaded back
- Error due to Checksum, Signature Check, and Size Check
- Ejecting of USB device (during reading of the setting file)

Precautions

- Files are stored in Root of USB memory.
- Files are read from Root of USB memory.
 - ⇒ To make operations such as moving files, be sure to assign the saved file in Root of the USB memory.
Also please be careful not to assign *.avr in multiple numbers.
- The time and date of updating for saved file is fixed to "2011/01/01 0:00."
- In principle, please implement Load without making of factory default settings.
To Load from factory default settings status, please take caution on the following points;

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

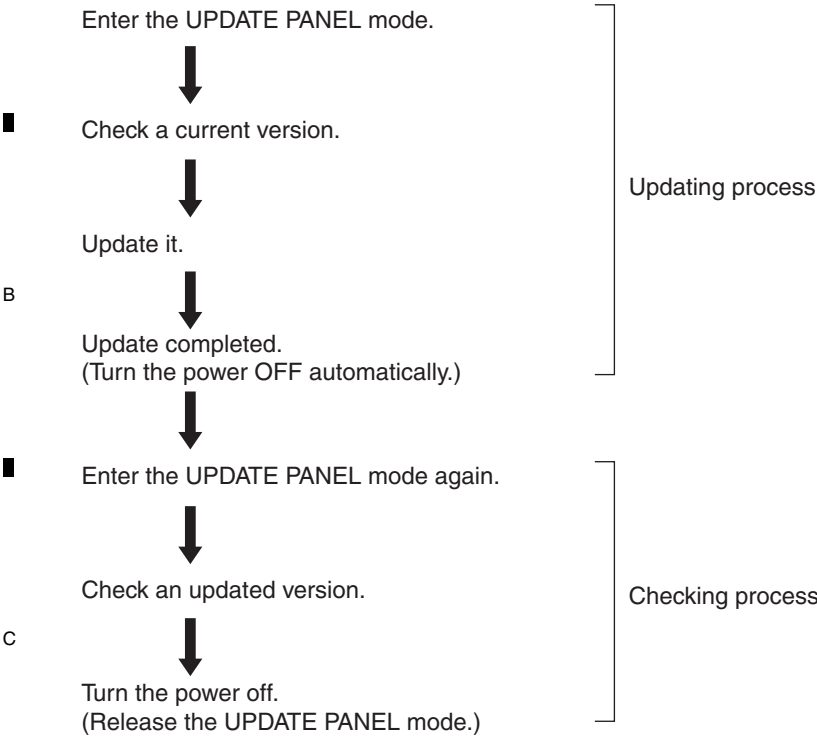
Procedures for turning OFF the HDMI control setting

⇒ HOME MENU ⇒ 4.System Setup ⇒ e.HDMI Setup ⇒ Control OFF

8.3 UPDATING OF THE FIRMWARE

A

Workflow



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

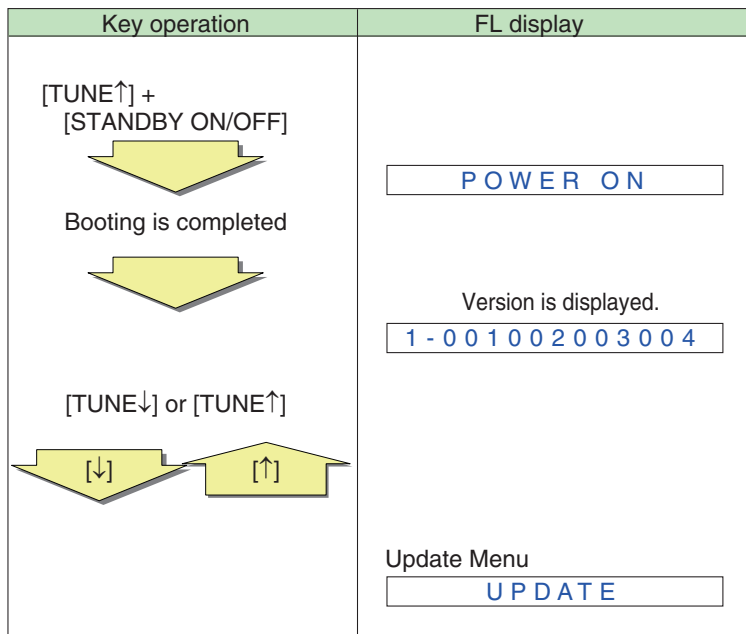
UPDATE PANEL Mode (Version update)

[Preparations]

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

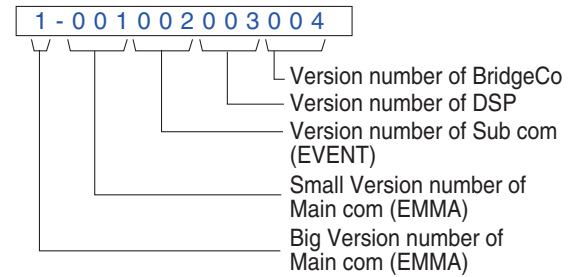
[Procedure]

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

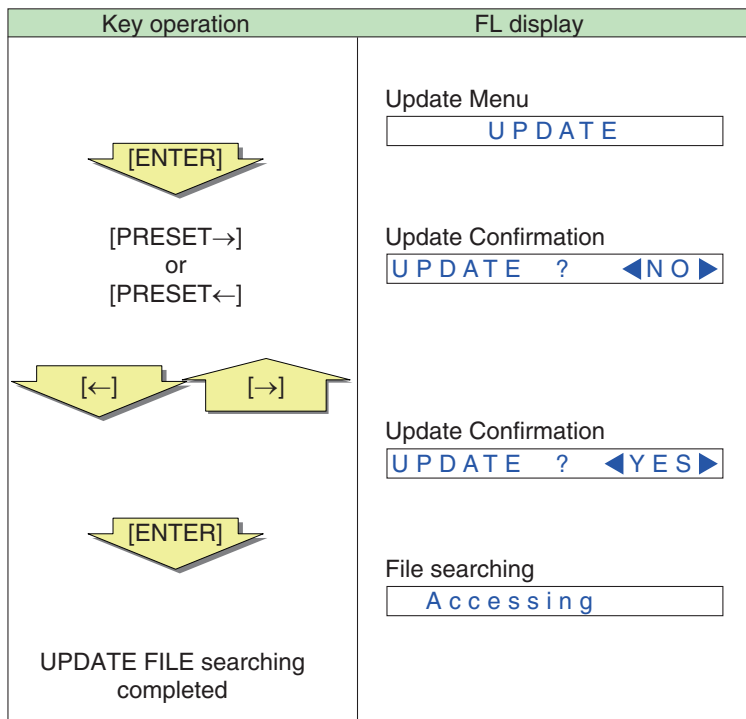


Front Panel Key

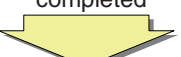
[↓] : TUNE key
 [↑] : TUNE key
 [←] : PRESET key
 [→] : PRESET key



Do not do time-out during update panel indication.
 It takes 30 seconds till version of the BridgeCo is displayed.
 Meanwhile, version of the BridgeCo is displayed with ***.



A

Key operation	FL display
UPDATE FILE searching completed 	Updating process * U p d a t i n g . 2 0 %
DSP UPDATE completed 	Updating process * U p d a t i n g . 4 0 %
BridgeCo IC UPDATE completed 	Updating process * U p d a t i n g . 6 0 %
MAIN com (EMMA) UPDATE completed 	Updating process * U p d a t i n g . 8 0 %
SUB com (EVENT) UPDATE completed 	Update completion display * U p d a t i n g . 1 0 0 %
5 Second 	
Power turns off automatically. (All ZONE OFF) Disconnect the USB MEMORY.	

C

D

E

Update time is fluctuated by contents of the update. It will take about 20 minutes at the maximum.
(Actual time is from 2 minutes to 15 minutes.)

Time required for updating varies, because only the programs that require updating will be updated.

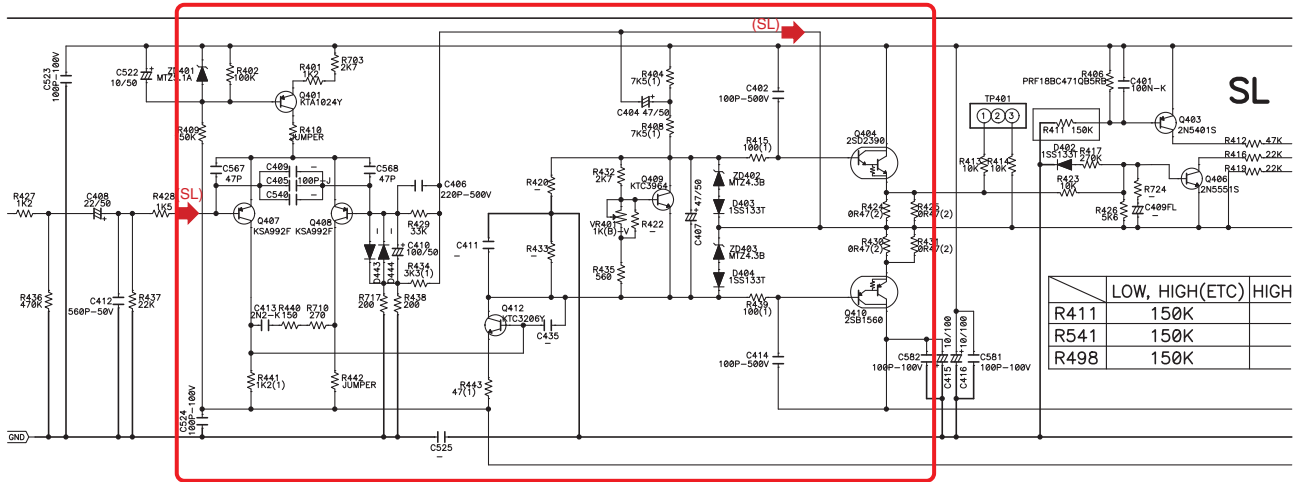
[Confirmation]

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

F



When any component parts which are within the red square on the following circuit diagram are replaced, the idle current adjustment of that channel is required. (Idle current adjustment for another channel is not required.) However, when any capacitors are replaced, the adjustment is not required. (The following circuit diagram is for SL channel, but another channel also has same circuit diagram and same adjustment is required)



Channel	Measurement Points	Adjustment Points	Procedure
FL	TP404 pin 1 (+) TP404 pin 3 (-)	VR404	① Turn on the power. ② Perform aging for one minute. ③ Connect a digital voltmeter to the measurement point. ④ Turn the adjustment VR so that the voltage becomes in 2.0 mV ± 0.2 mV. (Condition : No signal and no load)
FR	TP402 pin 1 (+) TP402 pin 3 (-)	VR402	
C	TP403 pin 1 (+) TP403 pin 3 (-)	VR403	
SL	TP401 pin 1 (+) TP401 pin 3 (-)	VR401	
SR	TP405 pin 1 (+) TP405 pin 3 (-)	VR405	
SBL	TP406 pin 1 (+) TP406 pin 3 (-)	VR406	
SBR	TP407 pin 1 (+) TP407 pin 3 (-)	VR407	

• Adjustment points and measurement points.... see fig.1.

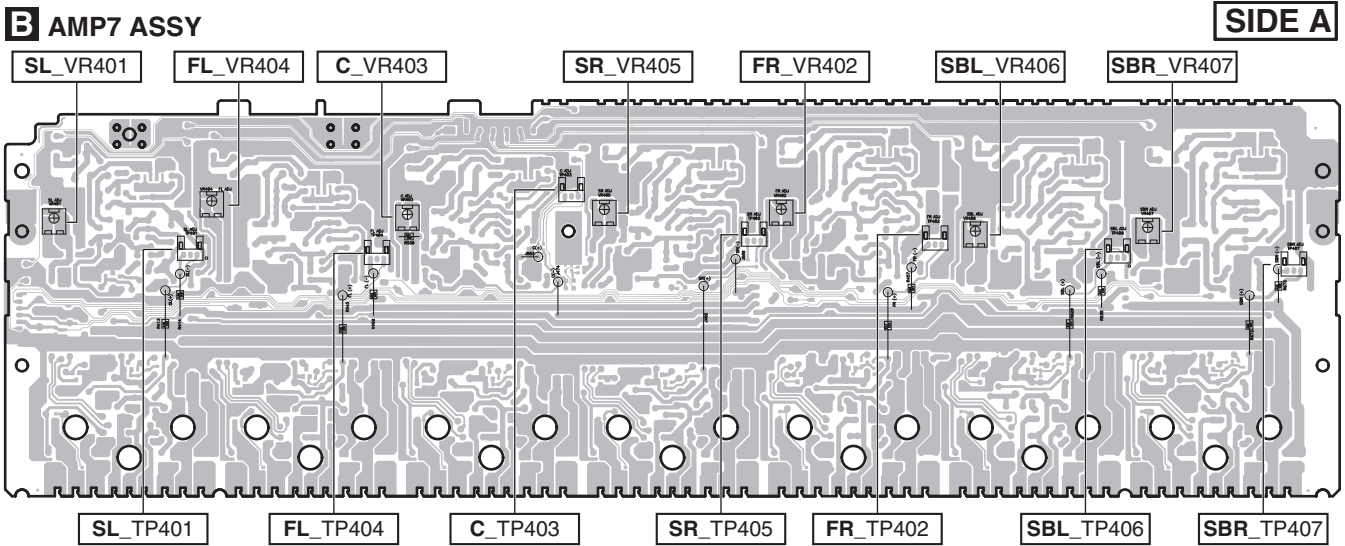


Fig.1

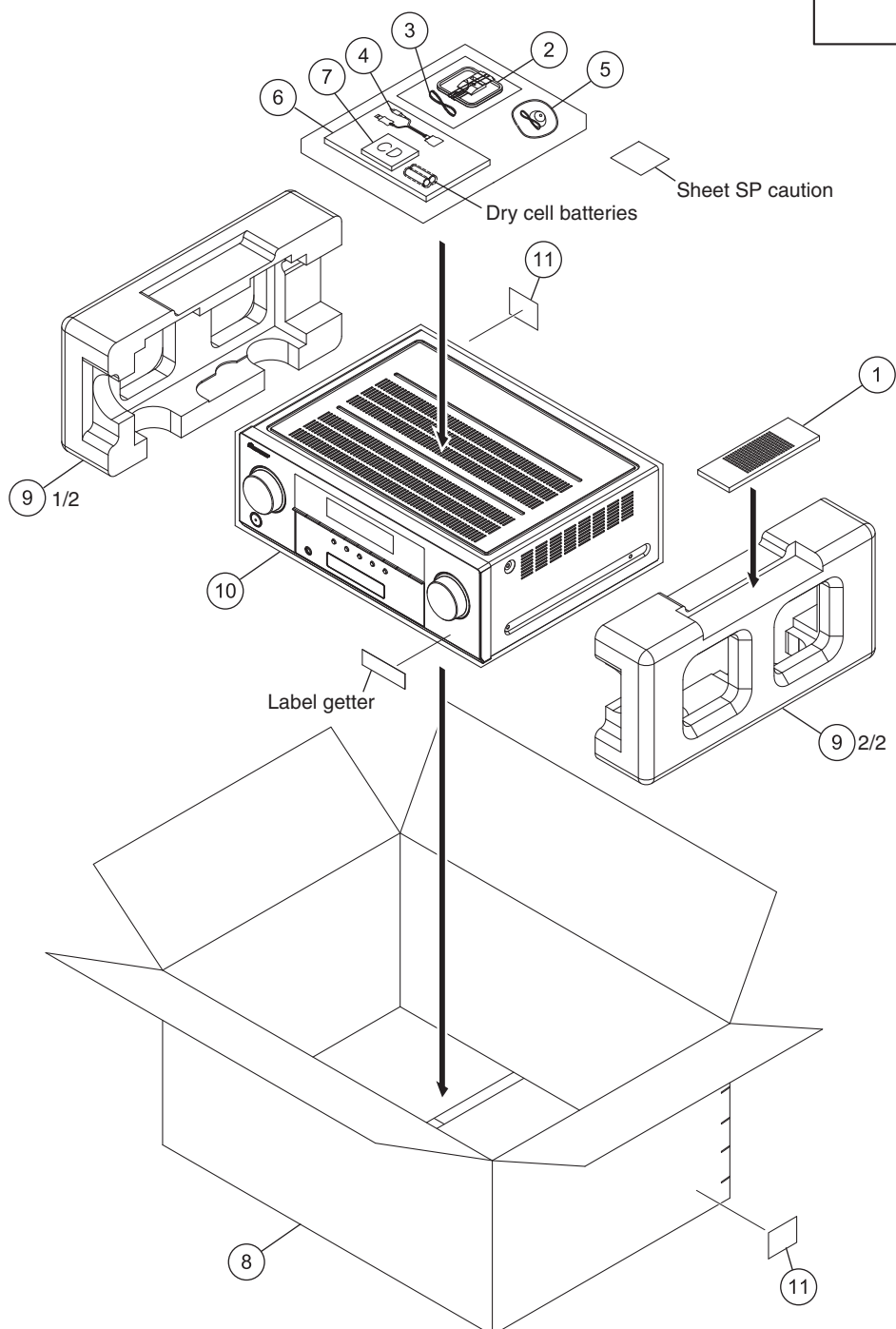
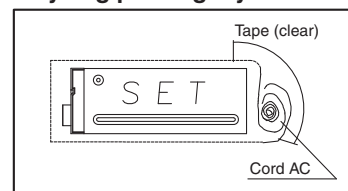
9. EXPLODED VIEWS AND PARTS LIST

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

- The $\triangle$ 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

Poly bag packing style



9.2 EXTERIOR SECTION

A

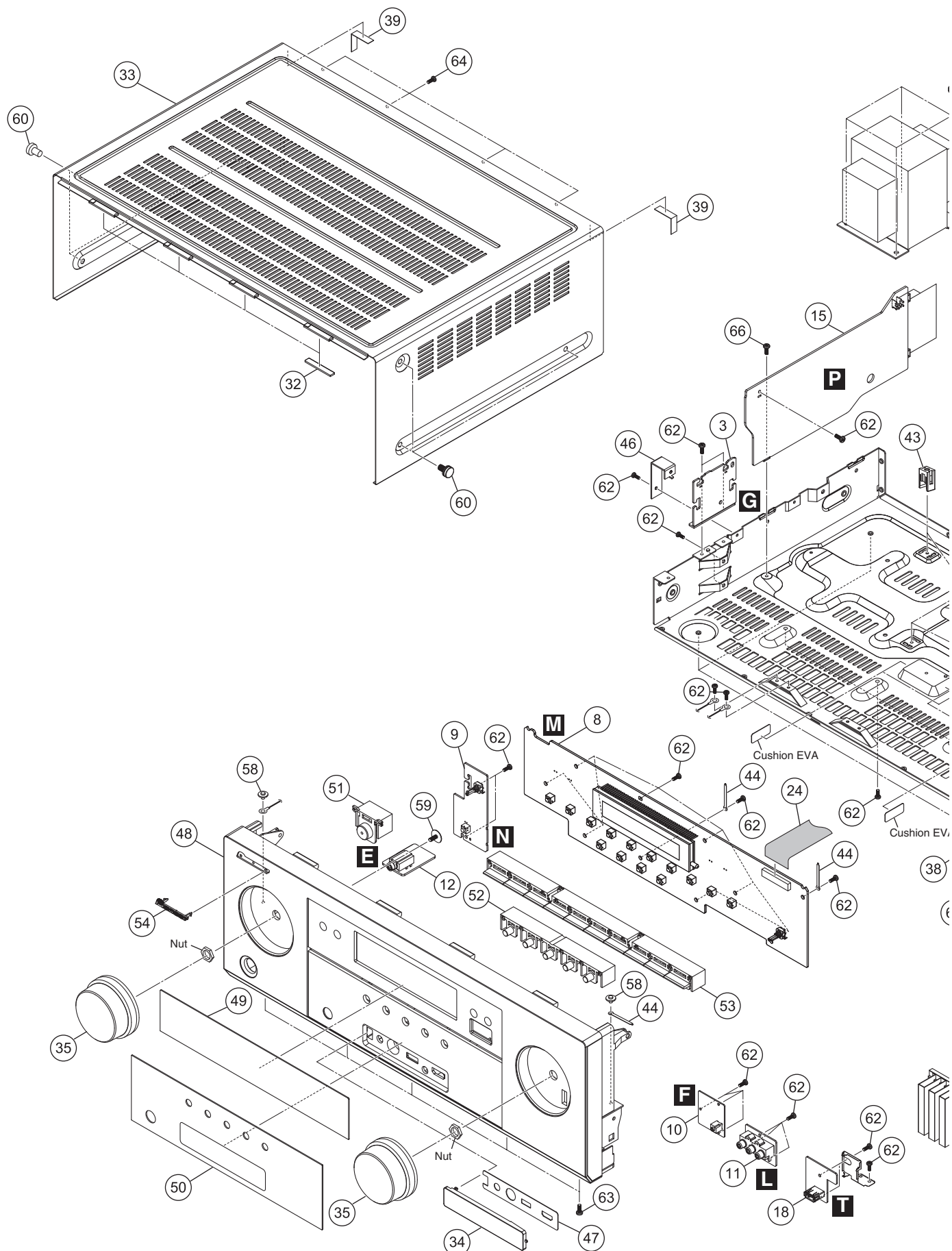
B

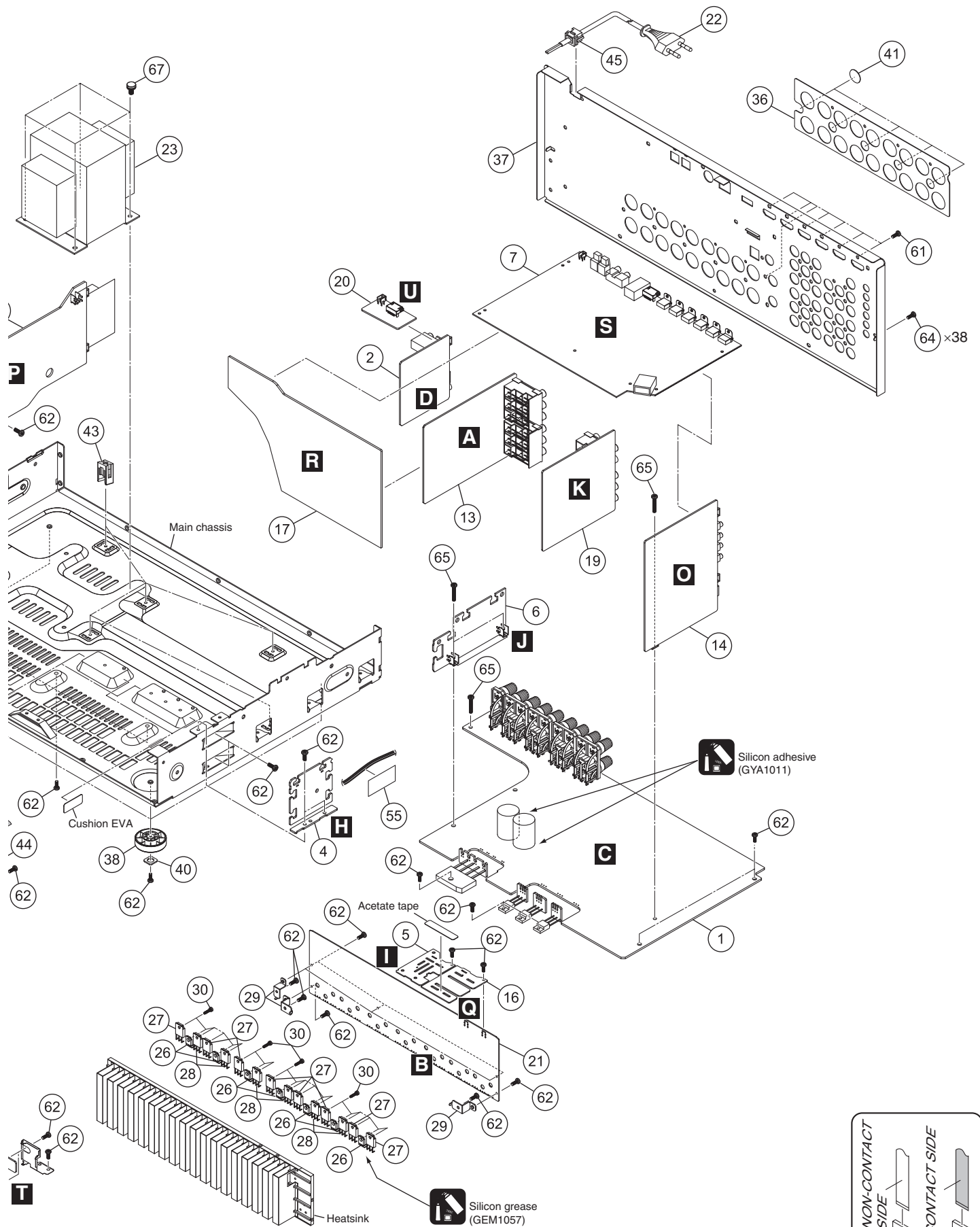
C

D

E

F





EXTERIOR 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>
A	1	MAIN Assy	70280702710J0-IL		46	Bracket SMPS	4010214886000-IL
	2	SW Assy	7028070272010-IL		47	F Input Sheet 1021U	1217211472000-IL
	3	G-L Assy	7028070273010-IL		48	Front Panel 1021U	3067215091030-IL
	4	G-R Assy	7028070274010-IL		49	Window Display 1021U	5077213113040-IL
	5	WG-A Assy	7028070276010-IL		50	Window Display 1021L	5077213123000-IL
	6	WG-B Assy	7028070277010-IL		51	Button	5090213741100-IL
	7	D-MAIN Assy	7028070351010-IL		52	5 Key Button	5090214561000-IL
	8	FRONT Assy	7028070301010-IL		53	10 Key Button	5090214571000-IL
	9	POWER Assy	7028070302010-IL		54	Pioneer Badge B (PLS)	XAM3006
	10	MIC Assy	7028070303030-IL	NSP	55	Tape	1220210879000-IL
B	11	F-V Assy	7028070304040-IL		56	•••••	
	12	HP Assy	7028070306010-IL		57	•••••	
	13	AUDIO Assy	7028070311010-IL		58	Screw, Tap Tite	1500001206010-IL
	14	IR Assy	7028070321010-IL		59	Screw	1500001456010-IL
	⚠ 15	SMPS Assy	7028070322010-IL		60	Screw	BBT40P080FTB
	16	CCG Assy	7028070323010-IL		61	Screw	BSZ30P040FTB
	17	BR Assy	7028070324010-IL		62	Screw	BBZ30P080FTC
	18	F-USB Assy	7028070331010-IL		63	Screw	BBZ30P080FTB
	19	VIDEO Assy	7028070261010-IL		64	Screw	BBT30P100FTB
	20	BT Assy	7028070231010-IL		65	Screw	BBZ30P180FTC
C	21	AMP7 Assy	7028070251010-IL		66	Screw, Tap Tite	B020230063B10-IL
	⚠ 22	Cord Assy	L068125101710-IL		67	Screw	B028940101B11-IL
	⚠ 23	Power Trans 1021U	8200960611050-IL				
	24	Cable, Flat Card 1.0 M	N711392412880-IL				
	25	•••••					
	⚠ 26	Transistor	J5011560Y0000-IL				
	⚠ 27	Semi, TR/GE NPN 2SC	J502396400010-IL				
	⚠ 28	Transistor	J5032390Y0000-IL				
	29	Bracket	4010056906010-IL				
	30	Screw Tapping Assy	B018230141H11-IL				
D	31	•••••					
	32	Sheet	1210210235000-IL				
	33	Cabinet	3007211846000-IL				
	34	Cover	4317215111000-IL				
	35	Knob	5080212431000-IL				
	36	Speaker Sheet 921SY	1210211492000-IL				
	37	Back Chassis 1021U	3207213766000-IL				
	38	Foot	4007210391000-IL				
	39	Cushion	4050211385000-IL				
	40	Cushion	4050211605000-IL				
E	41	Cushion	4050211745000-IL				
	42	•••••					
	43	Support	4070001601010-IL				
	44	Clamp MTG	4330000310000-IL				
	45	Stopper	4380040162010-IL				
F							

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5

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8

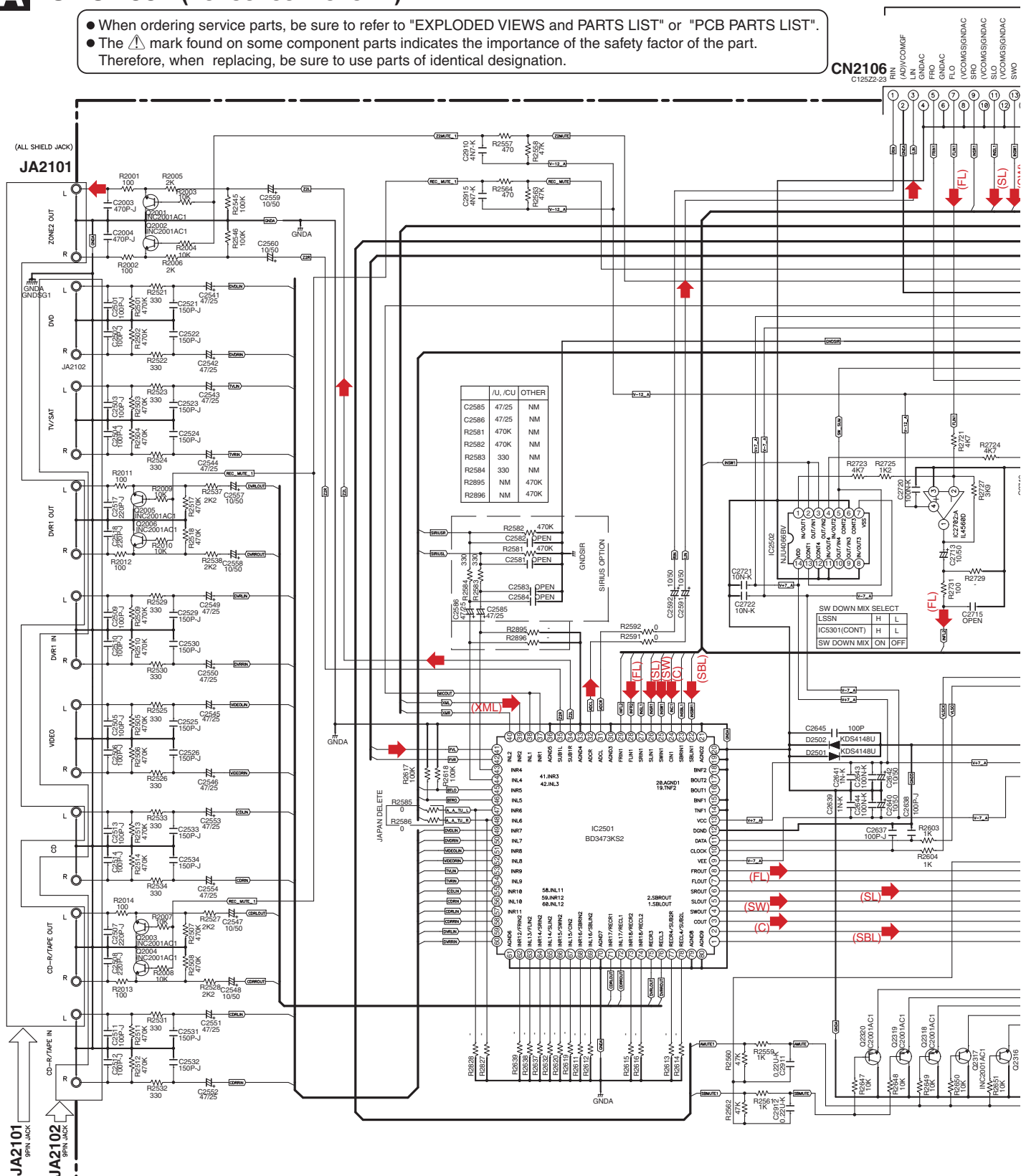
■

VSX-1021-K

10.1 AUDIO ASSY

A AUDIO ASSY (7028070311010-IL)

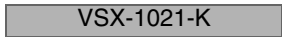
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



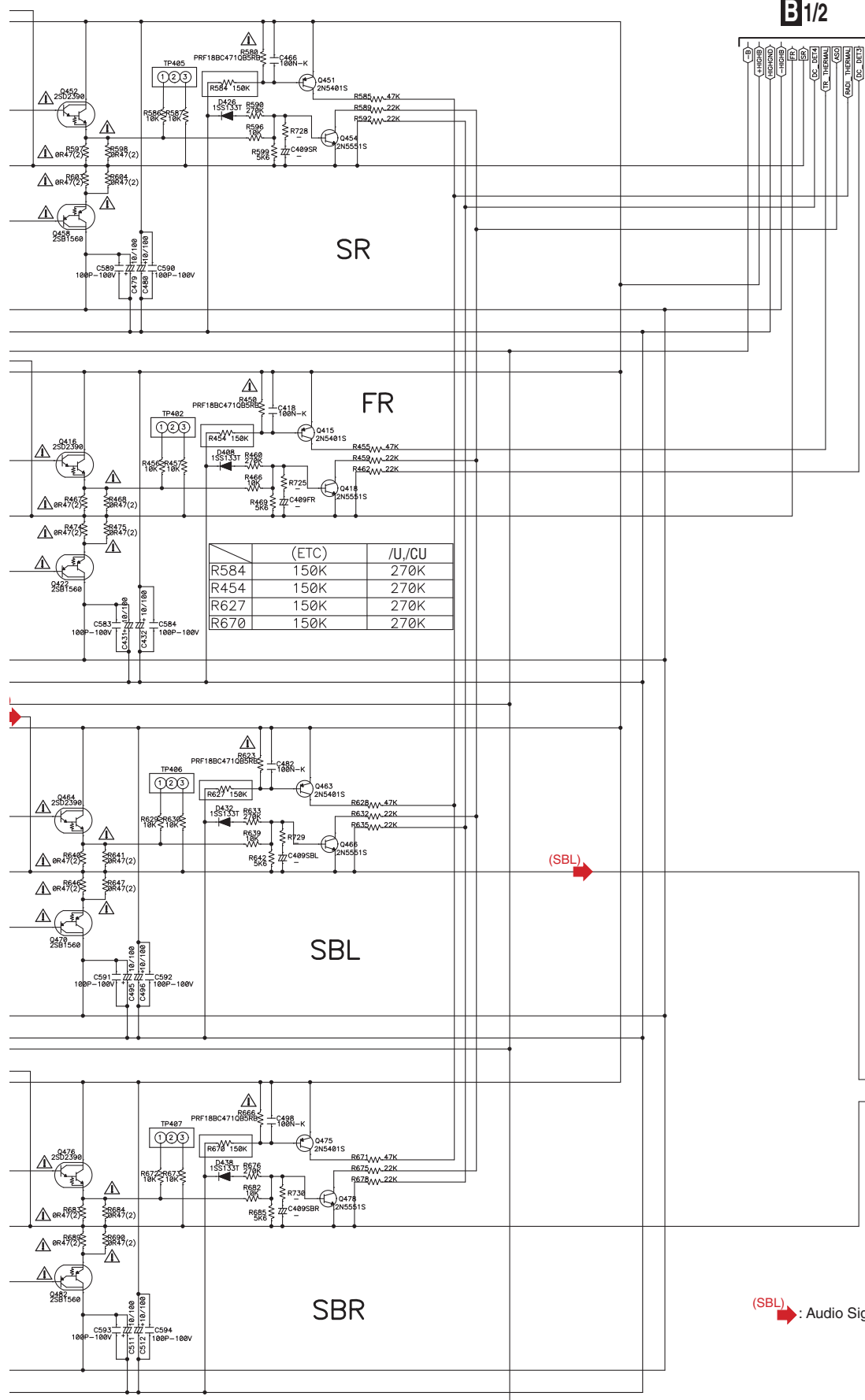


B1/2 AMP7 ASSY (1/2) (7028070251010-IL)





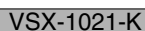
B1/2

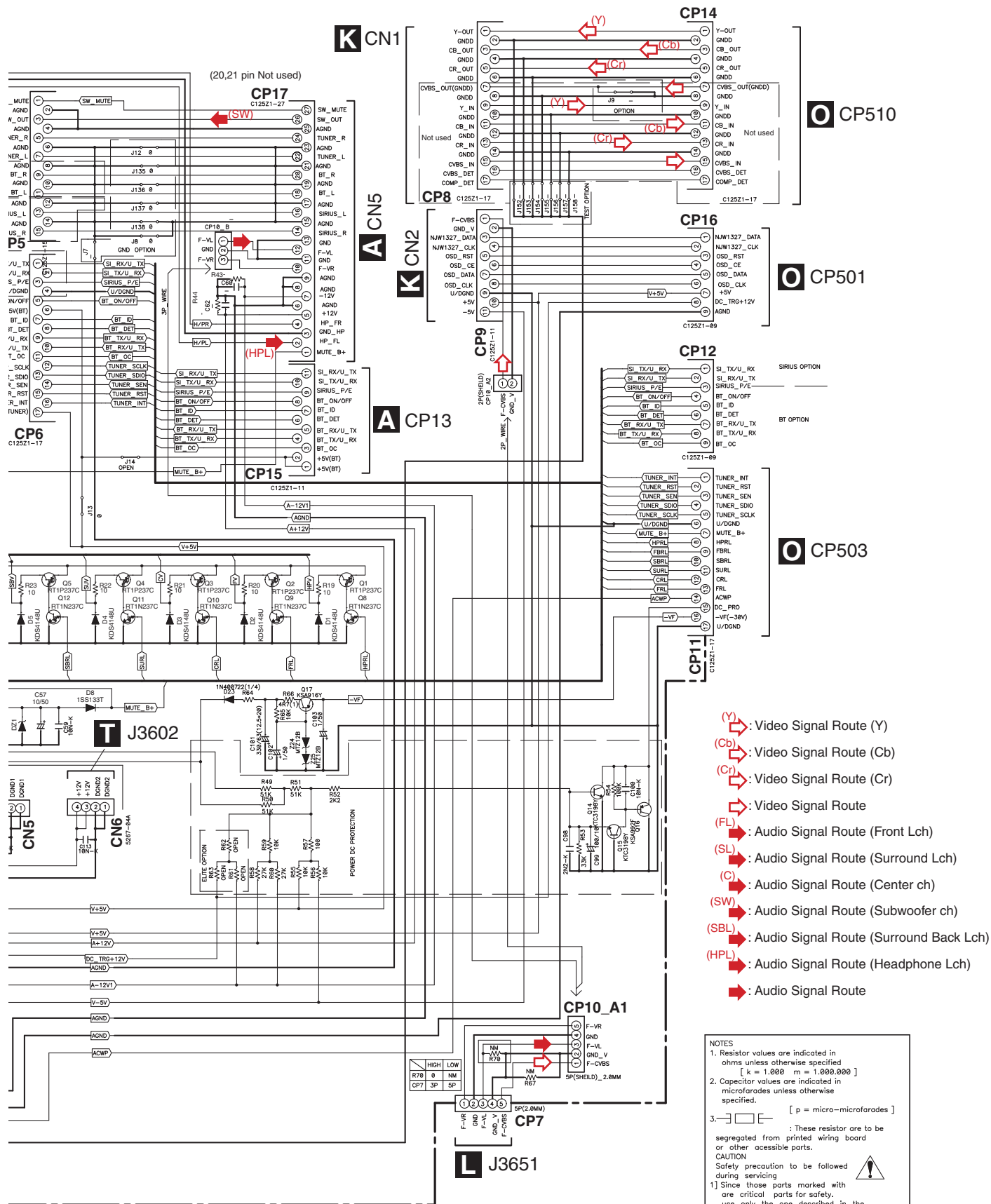


VSX-1021-K

B2/2

C MAIN ASSY (70280702710J0-IL)





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.

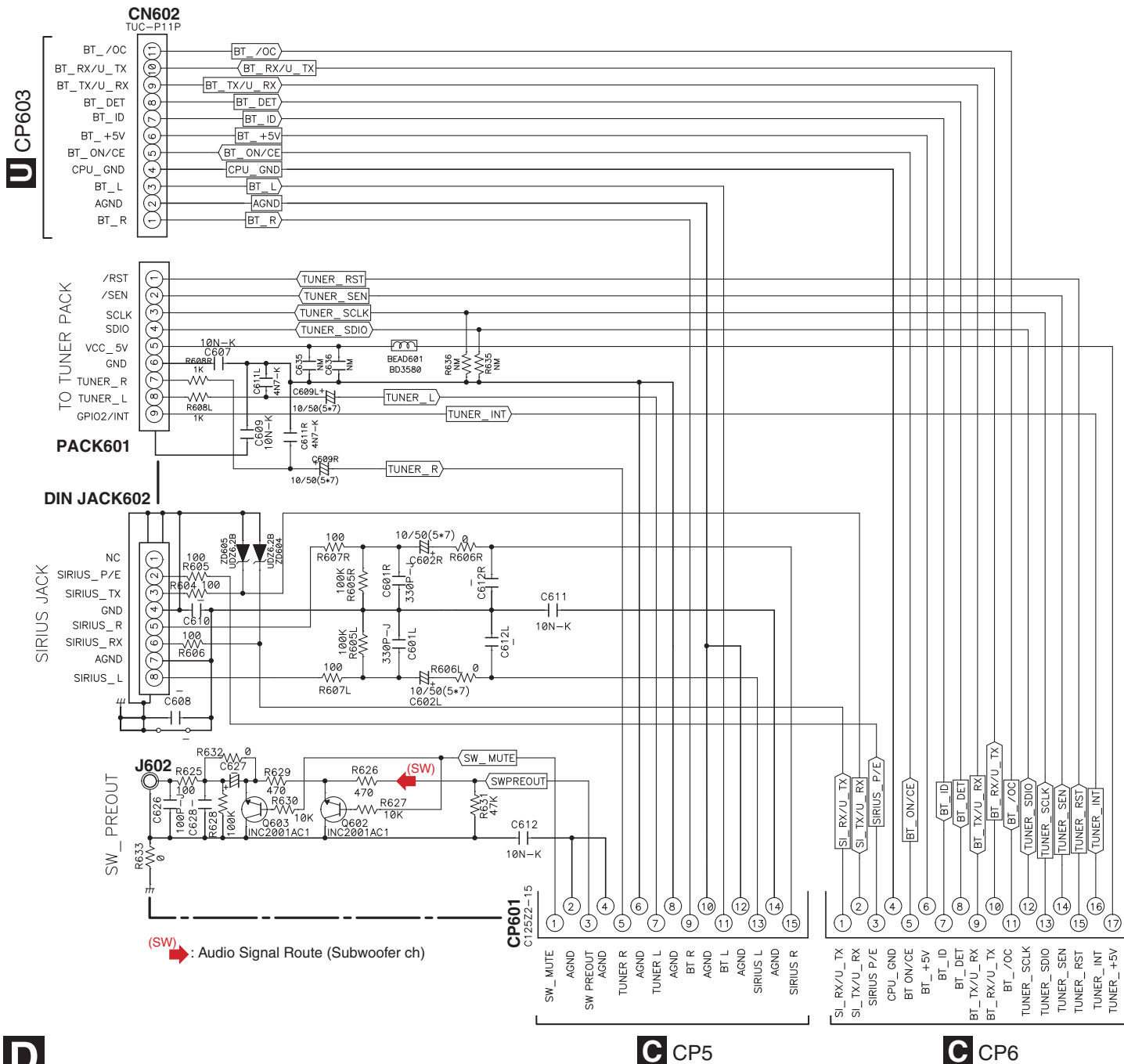
CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

VSX-1021-K

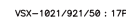
67

10.5 SW, HP, MIC, G-L, G-R, WG-A and WG-B ASSYS

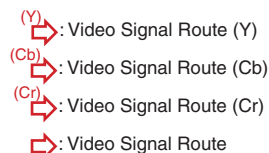
D SW ASSY (7028070272010-IL)



K VIDEO ASSY (7028070261010-IL)



C CP8



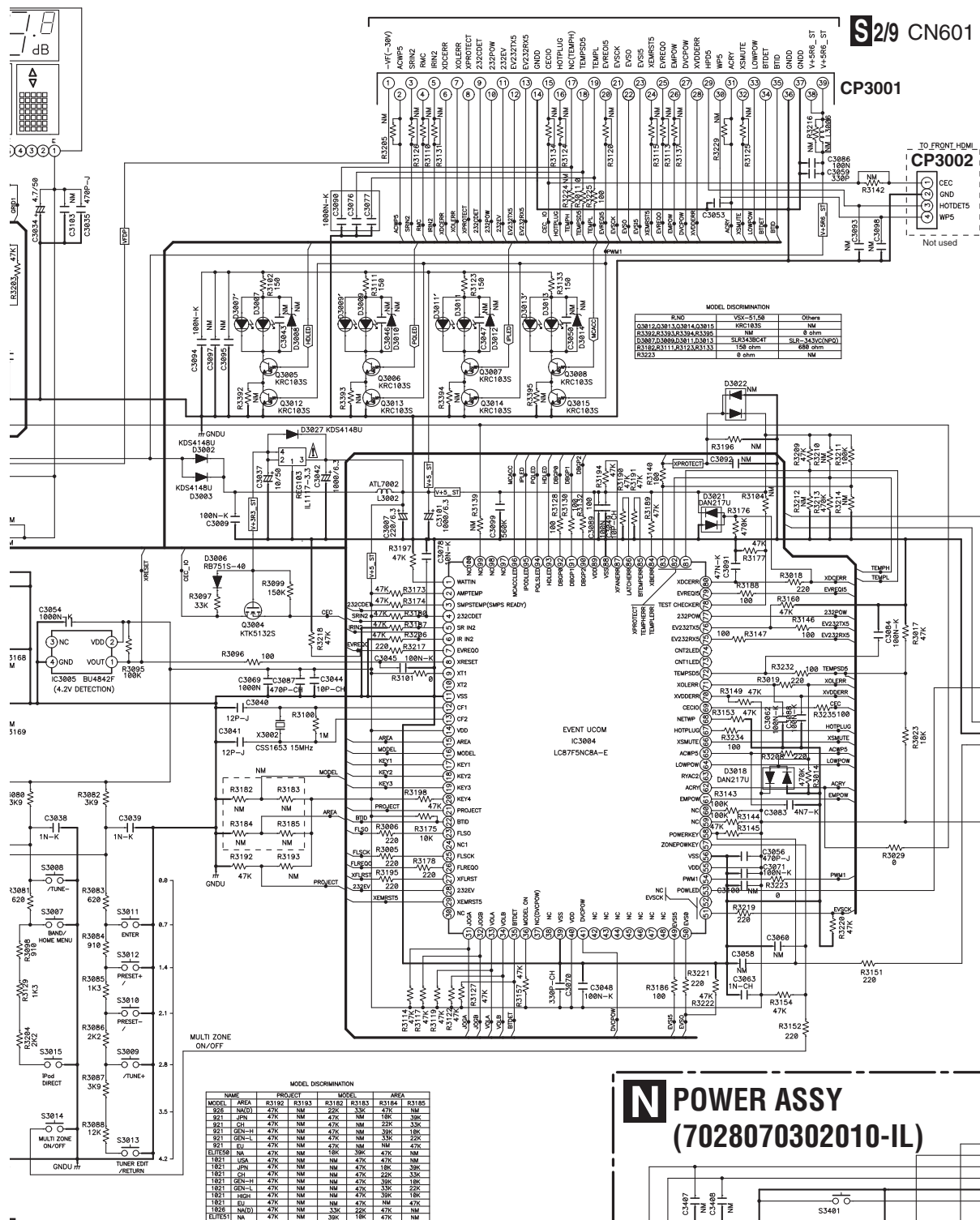
C CP8

C CP9

VSX-1021-K

M FRONT ASSY
(7028070301010-IL)





A

B

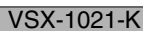
C

D

E

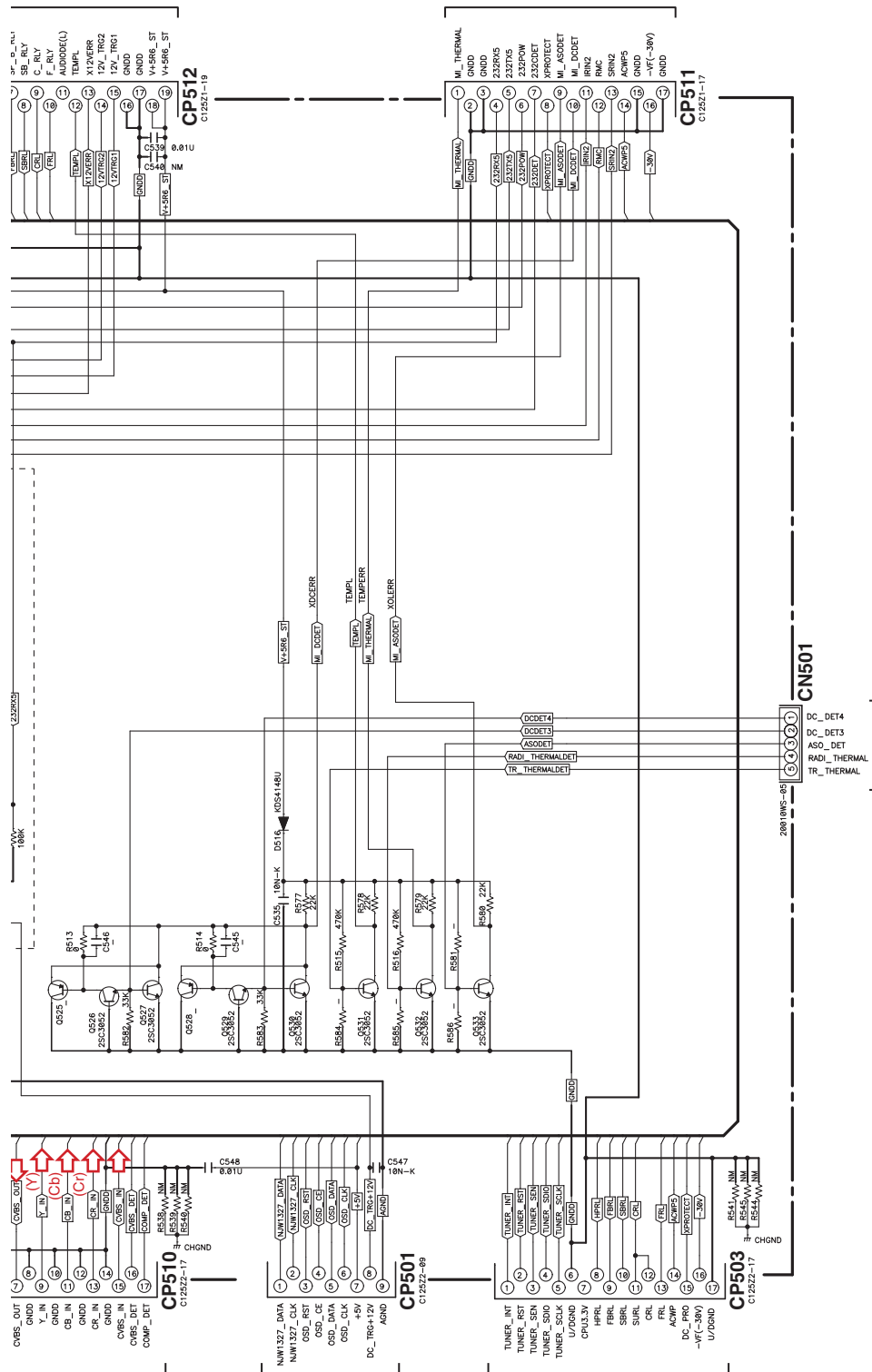
F

IR ASSY (7028070321010-IL)



2/9 CN603

S2/9 CN602



- (Y) : Video Signal Route (Y)
- (Cb) : Video Signal Route (Cb)
- (Cr) : Video Signal Route (Cr)
- : Video Signal Route

CP14

C CP16

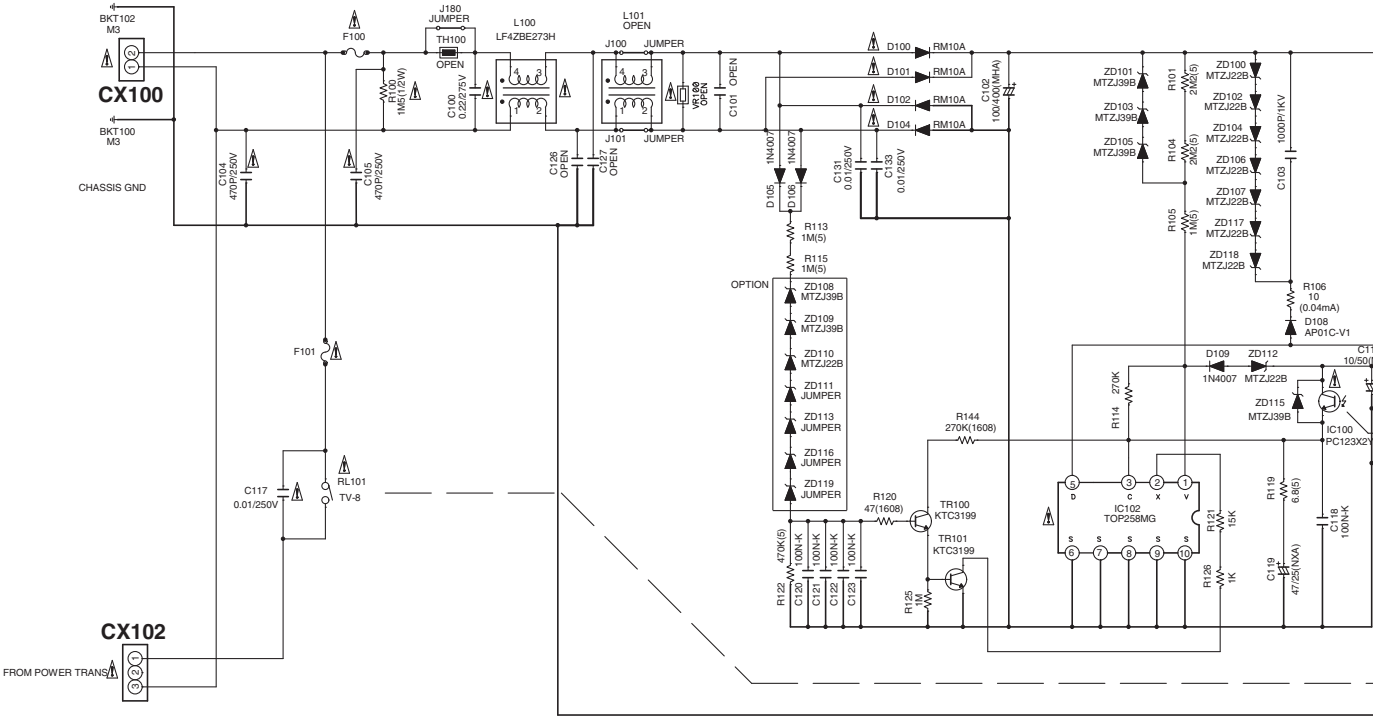
C CP11

VSX-1021-K

10.9 SMPS ASSY

SMPS ASSY (7028070322010-IL)

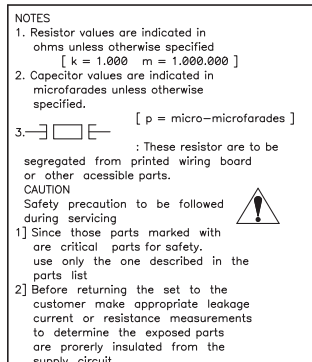
NOTE FOR FUSE REPLACEMENT
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.



※ FUSE OPTION

USA/JAPAN		OTHER	
F100	F101	F100	F101
3.15A	8A	3.15A	6.3A

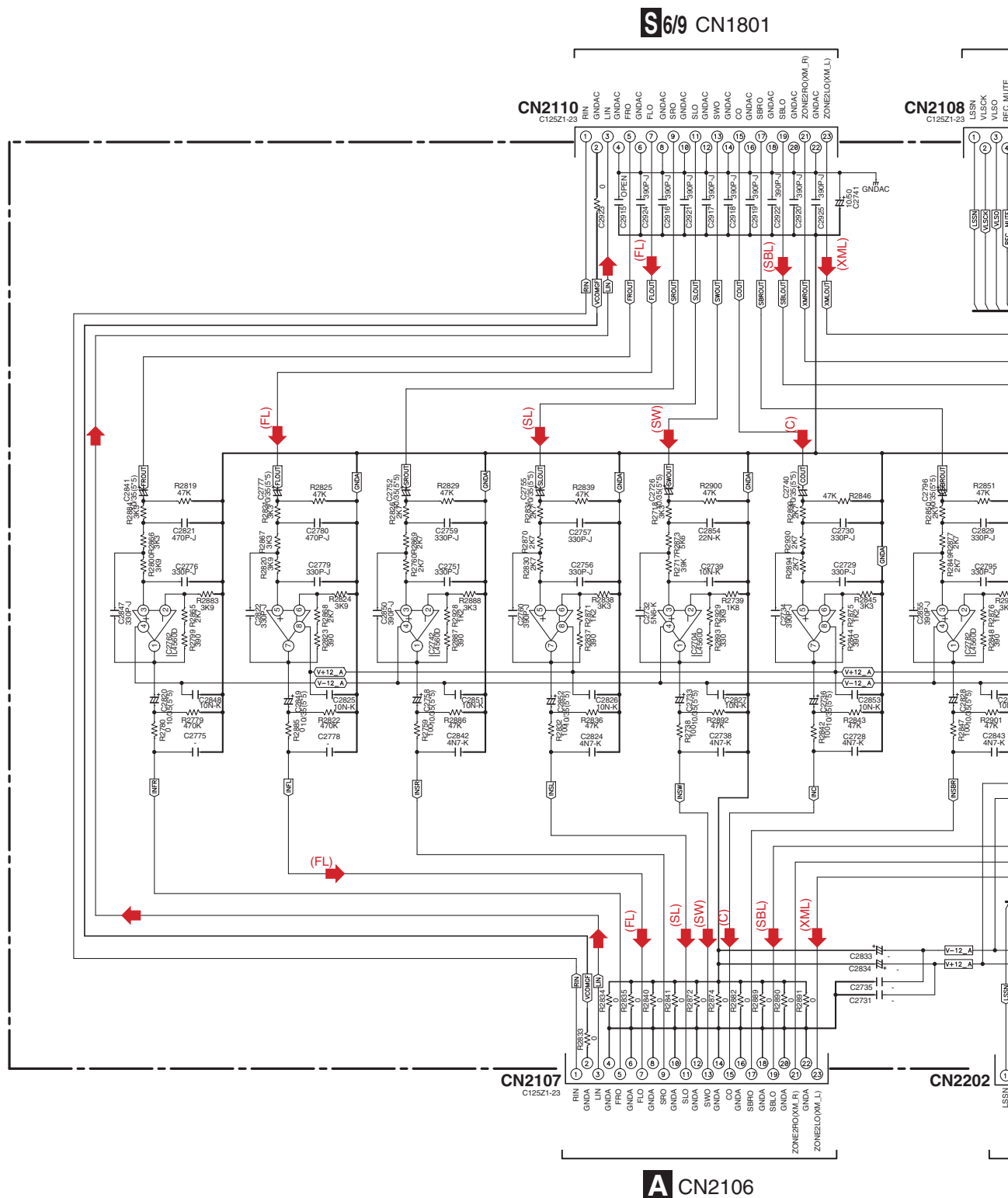
	ZD108	ZD109	ZD110	ZD111	ZD113	ZD116	ZD119	ZD101	ZD103	ZD105	R101	R104	R105
USA	MTZJ39B	MTZJ39B	MTZJ22B	JUMPER	JUMPER	JUMPER	JUMPER	MTZJ39B	MTZJ39B	MTZJ39B	2M2 (5)	2M2 (5)	1M (5)
OTHER	1M (5)	1M (5)	MTZJ39B	MTZJ39B	MTZJ39B	MTZJ39B	MTZJ39B	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
JAPAN	MTZJ39B	MTZJ39B	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	MTZJ39B	MTZJ39B	MTZJ39B	2M2 (5)	2M2 (5)	1M (5)

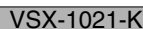


⚠ INDICATES SAFETY CRITICAL COMPONENTS.
TO REDUCE THE RISK OF ELECTRIC SHOCK, LEAKAGE
CURRENT OR RESISTANCE MEASUREMENTS SHALL BE
CARRIED OUT (EXPOSED PARTS ARE ACCEPTABLY
INSULATED FROM THE SUPPLY CIRCUIT) BEFORE
THE APPLIANCE RETURNED TO THE CUSTOMER.

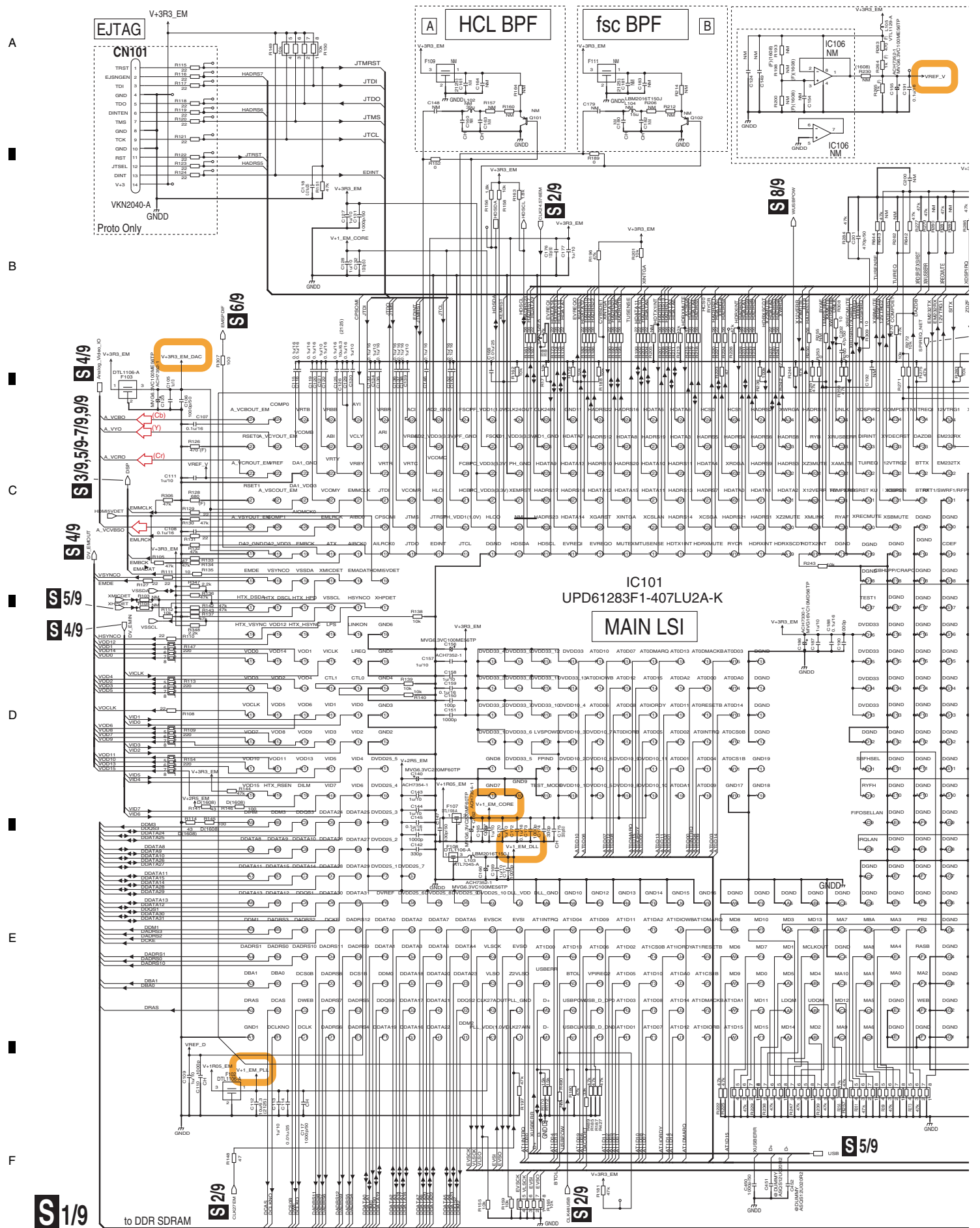
R BR ASSY (7028070324010-IL)

R





10.11 D-MAIN ASSY (1/9)





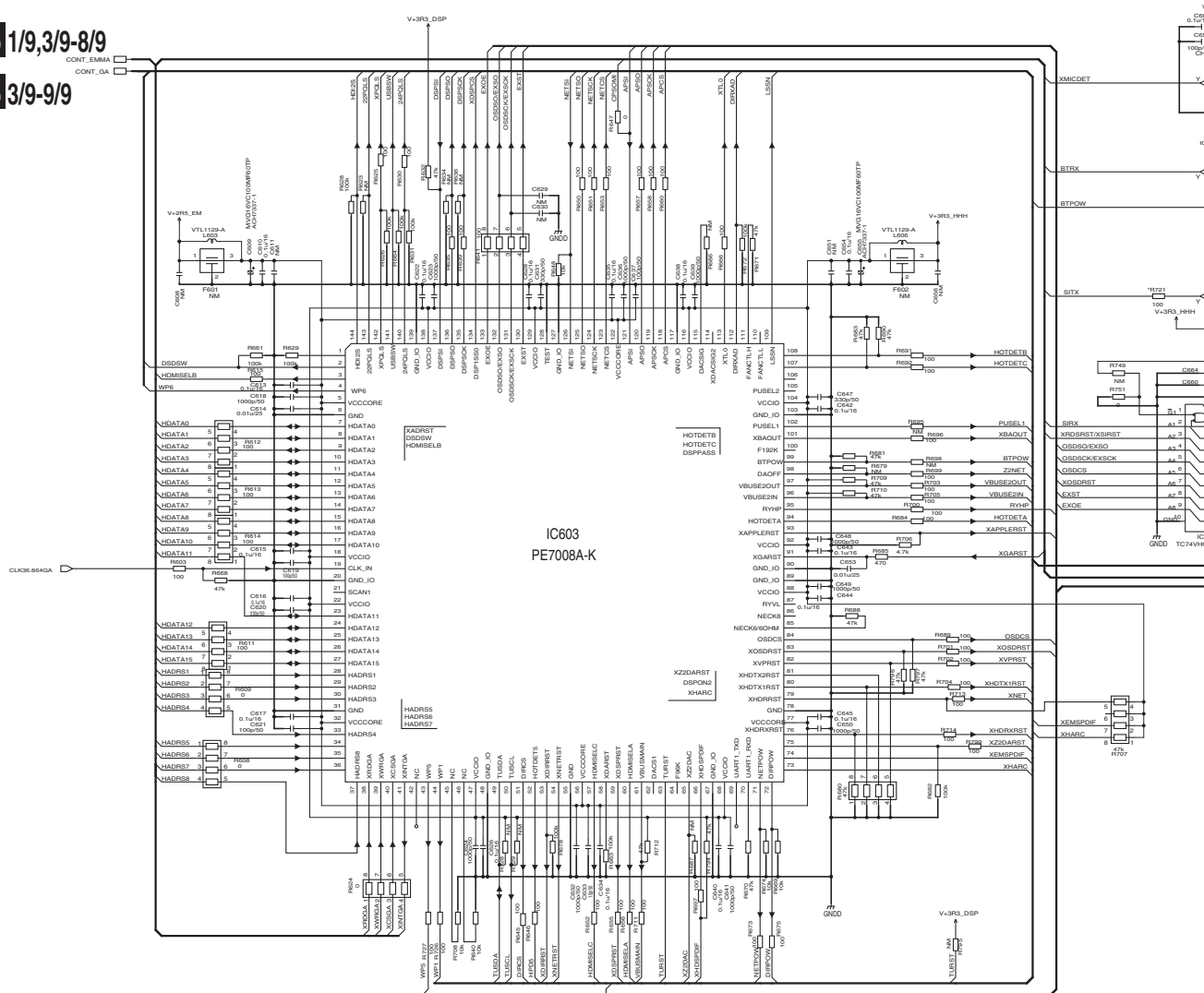
81

10.12 D-MAIN ASSY (2/9)

S2/9 D-MAIN ASSY (2/9) (7028070351010-IL)

S1/9,3/9-8/9

S3/9-9/9



S8/9

S5/9,9/9

S4/9

S8/9

S1/9

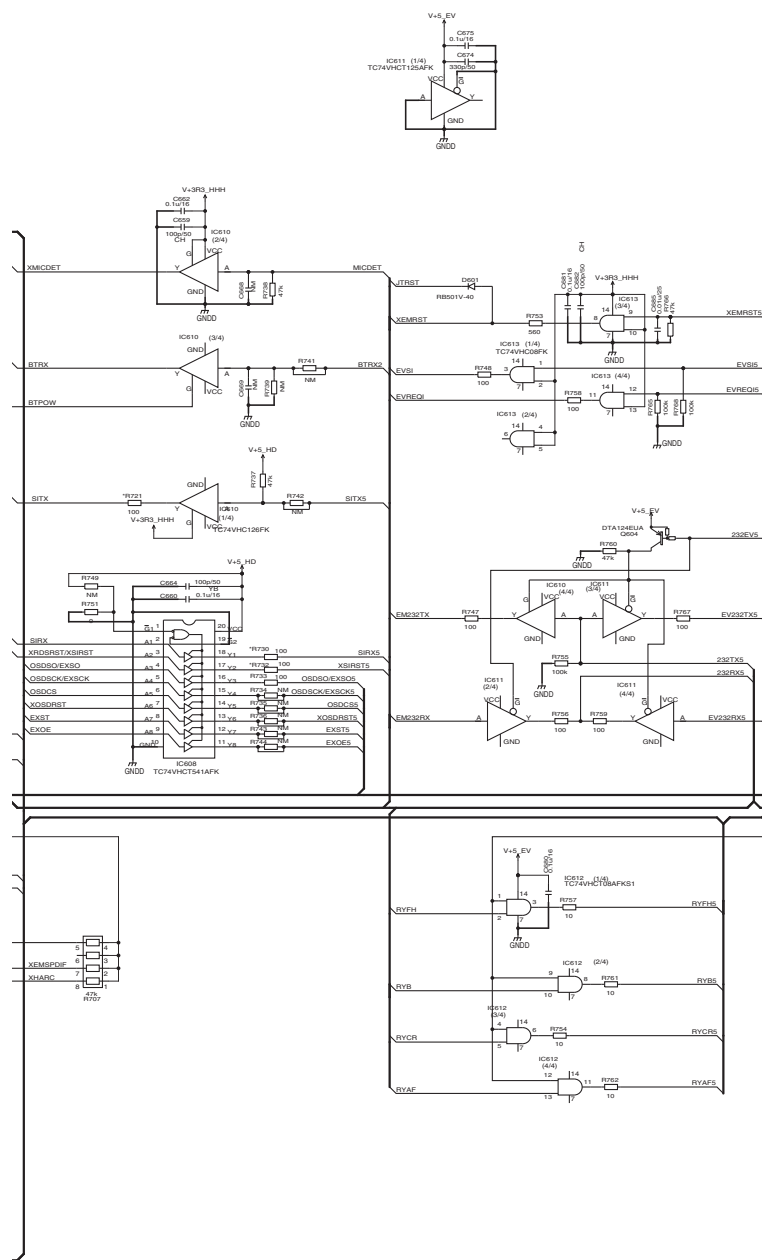
S8/9

S1/9

S1/9

S2/9

VSX-1021-K



S6/9

S5/9,9/9

M CP3001

S5/9

O CP512

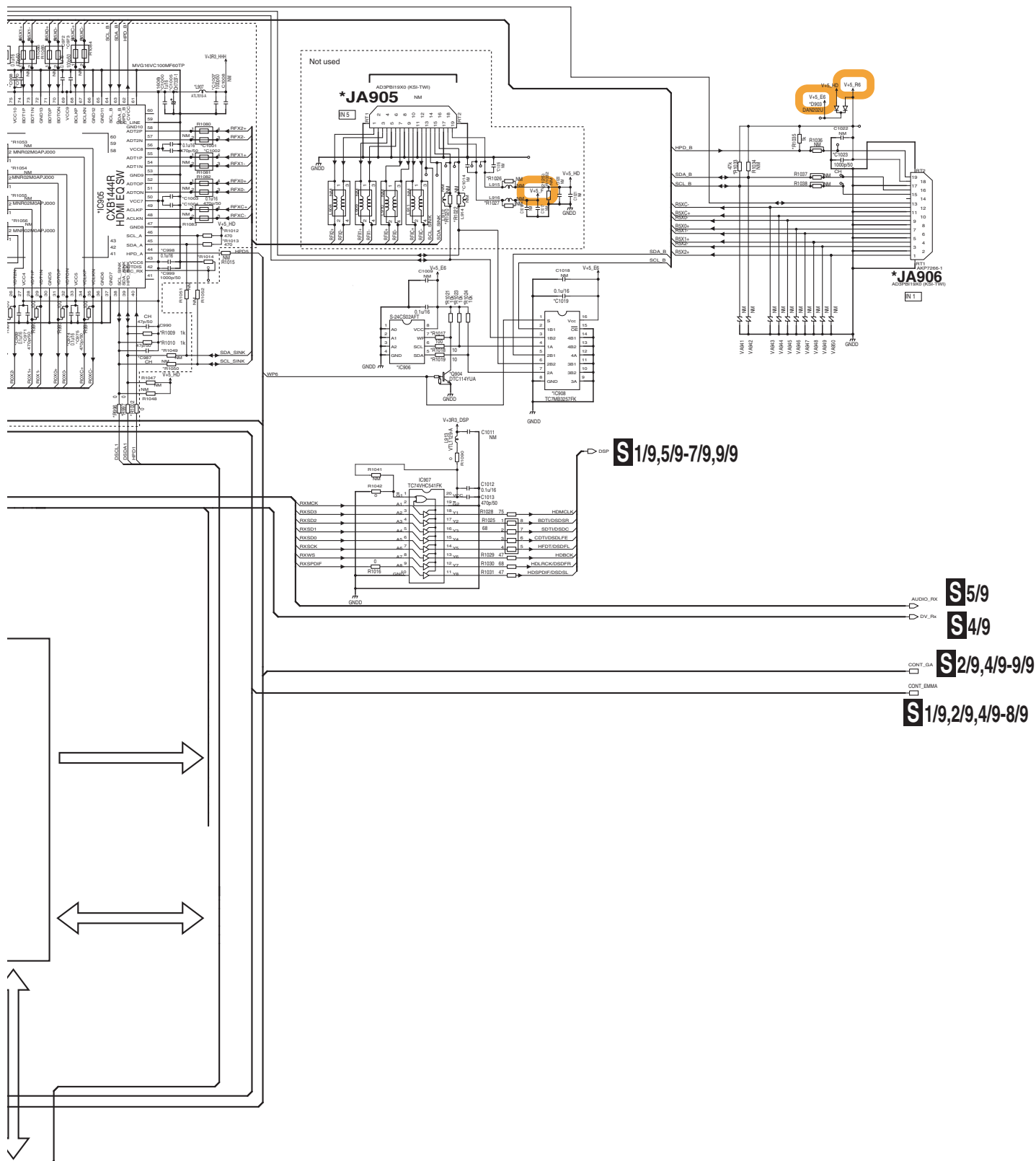
O CP511

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.

S3/9 D-MAIN ASSY (3/9)
(7028070351010-IL)



S 3/9

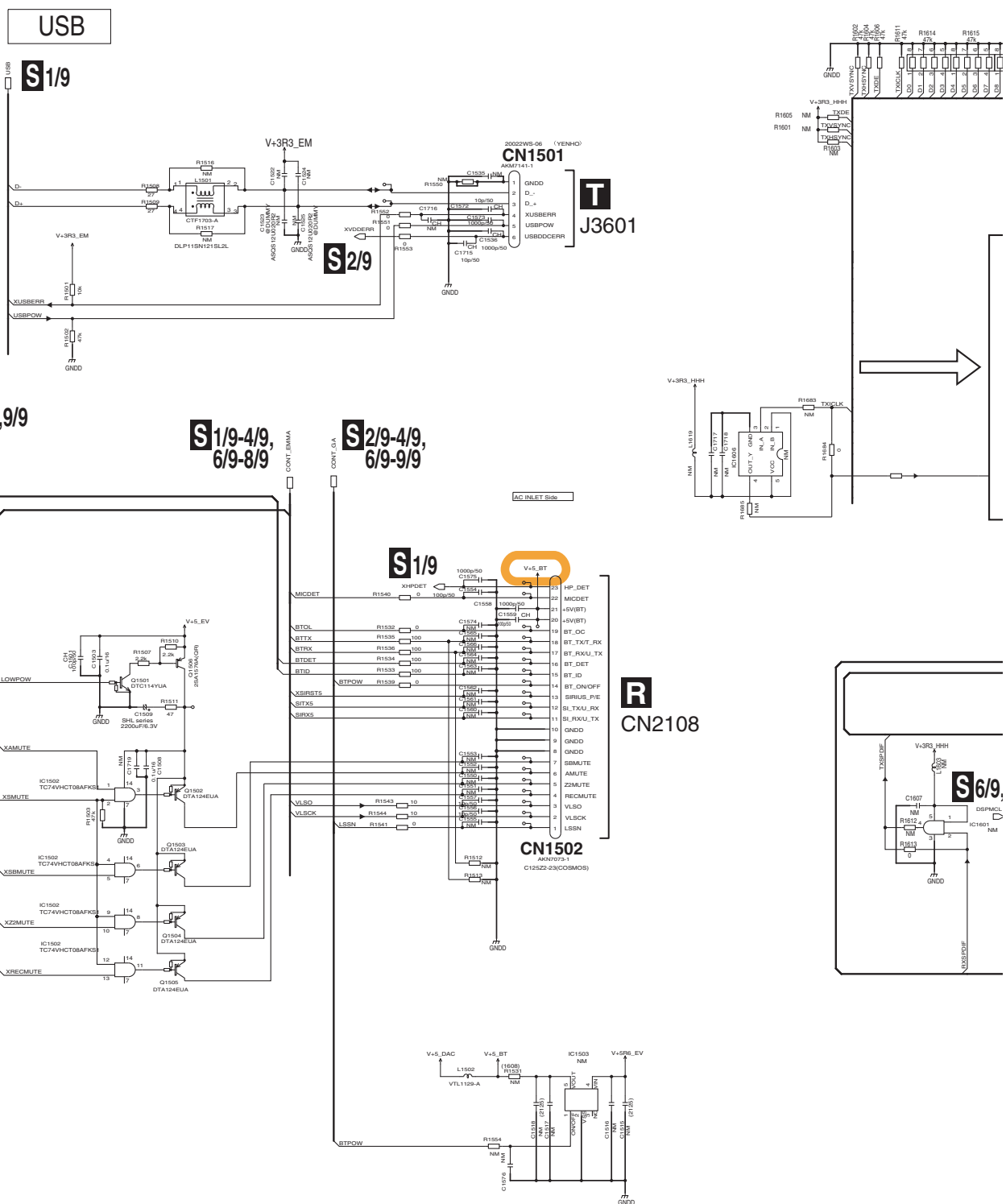


The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

S4/9 D-MAIN ASSY (4/9)
(7028070351010-IL)



S5/9 D-MAIN ASSY (5/9)
(7028070351010-IL)



A

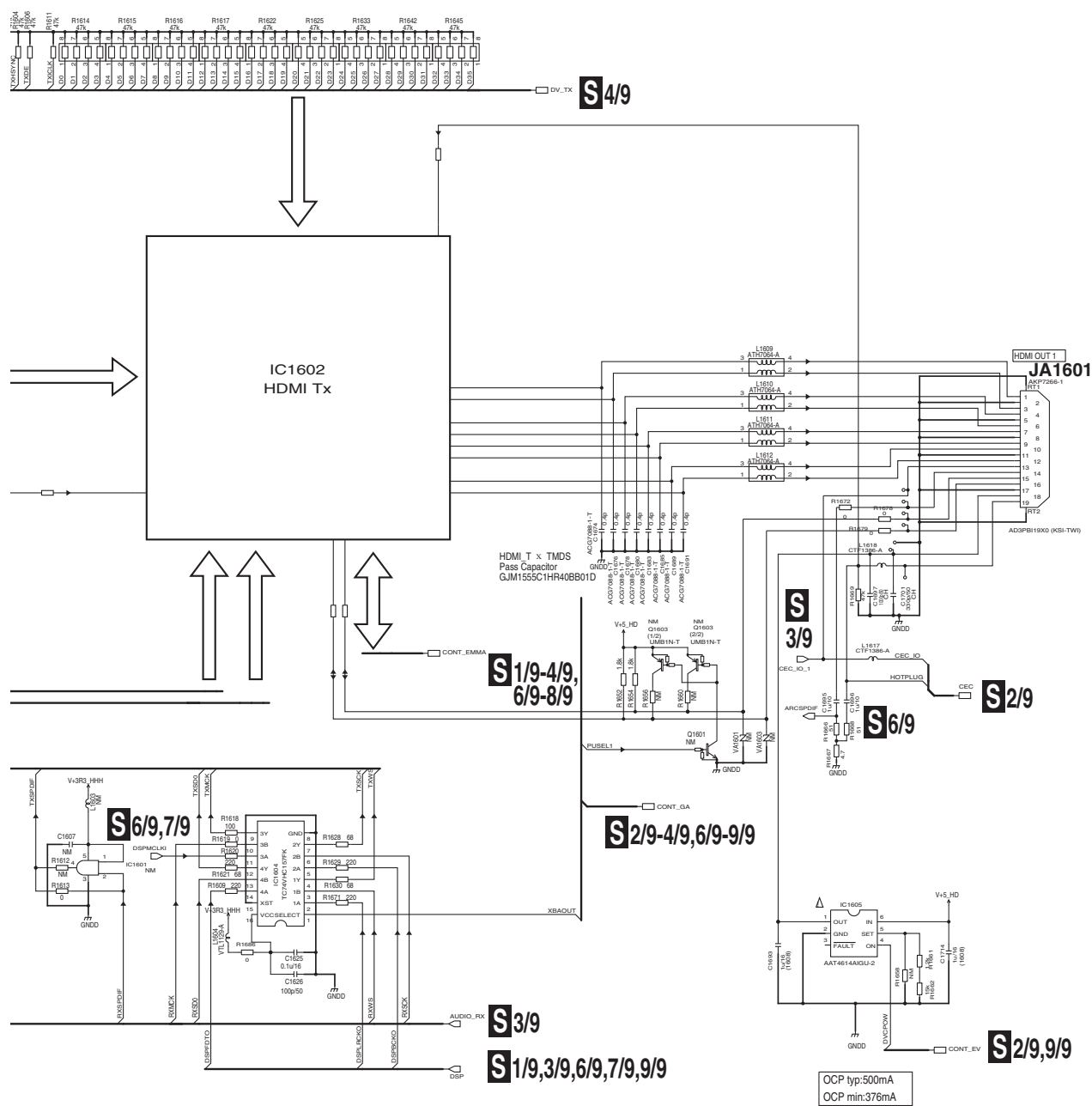
B

C

D

F

F



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.

10.16 D-MAIN ASSY (6/9)

S6/9 D-MAIN ASSY (6/9) (7028070351010-IL)

S2/9-5/9,7/9-9/9

MASTER CLOCK SELECTOR

- (FL) : Audio Signal Route (Front Lch)
- (SL) : Audio Signal Route (Surround Lch)
- (C) : Audio Signal Route (Center ch)
- (SW) : Audio Signal Route (Subwoofer ch)
- (SBL) : Audio Signal Route (Surround Back Lch)
- (XML) : Audio Signal Route (Sirius XM Lch)
- ➡ : Audio Signal Route

S1/9,3/9,5/9,7/9,9/9

S1/9,3/9,5/9,7/9,9/9

S2/9-5/9,7/9-9/9

S7/9

R

CN2110

*JA1802

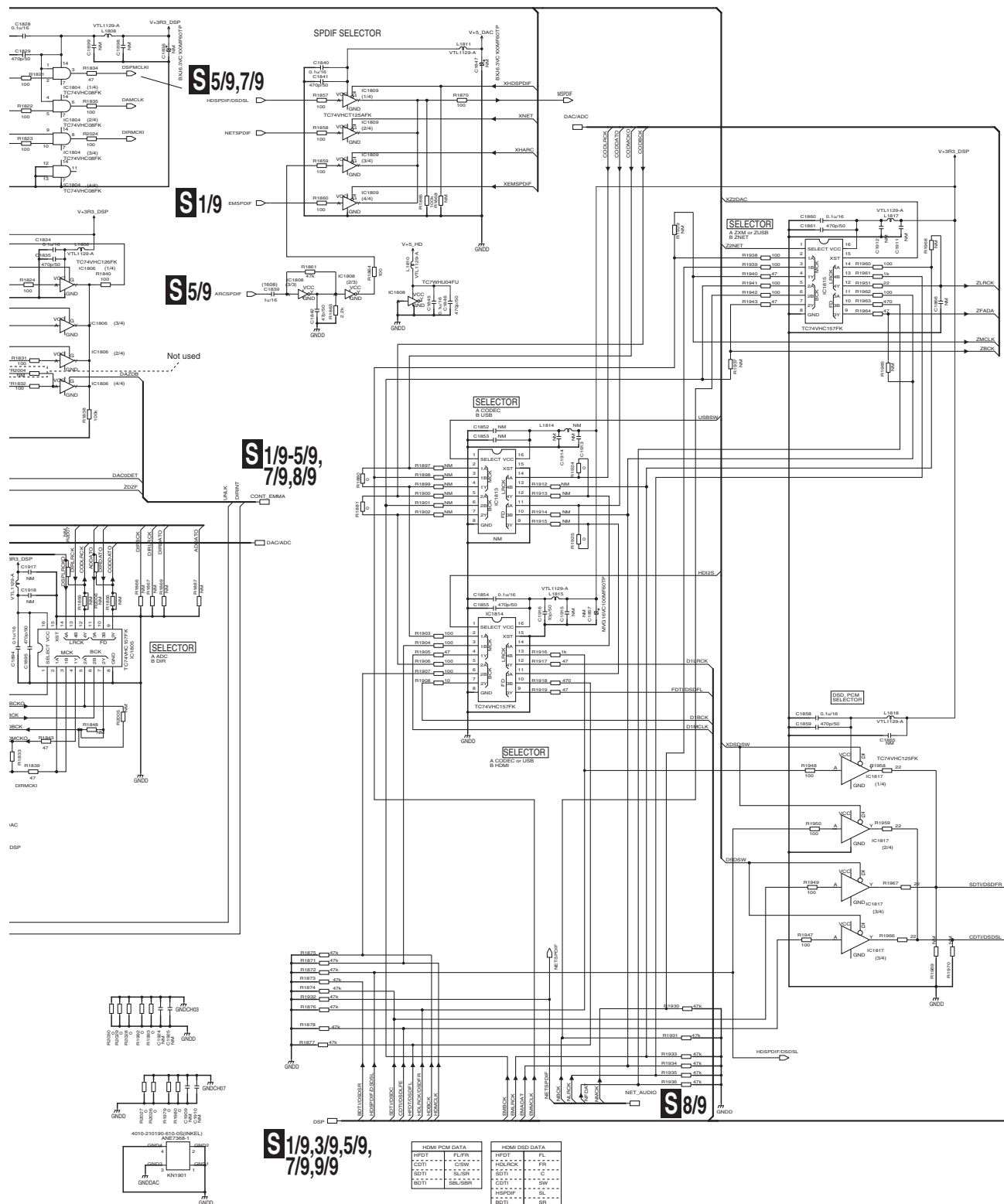
*JA1801

JA1803

JA1804

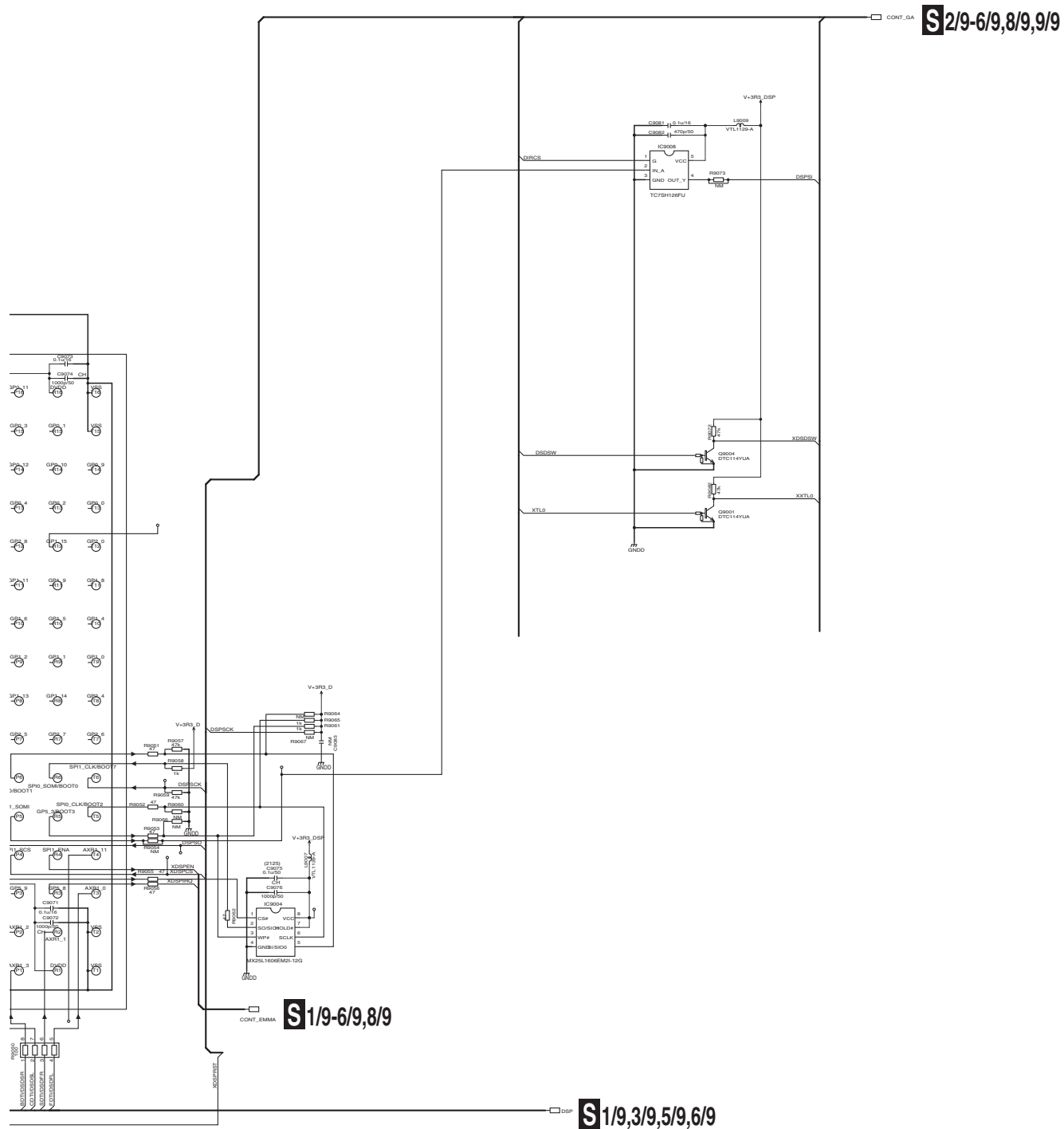
VSX-1021-K

S6/9



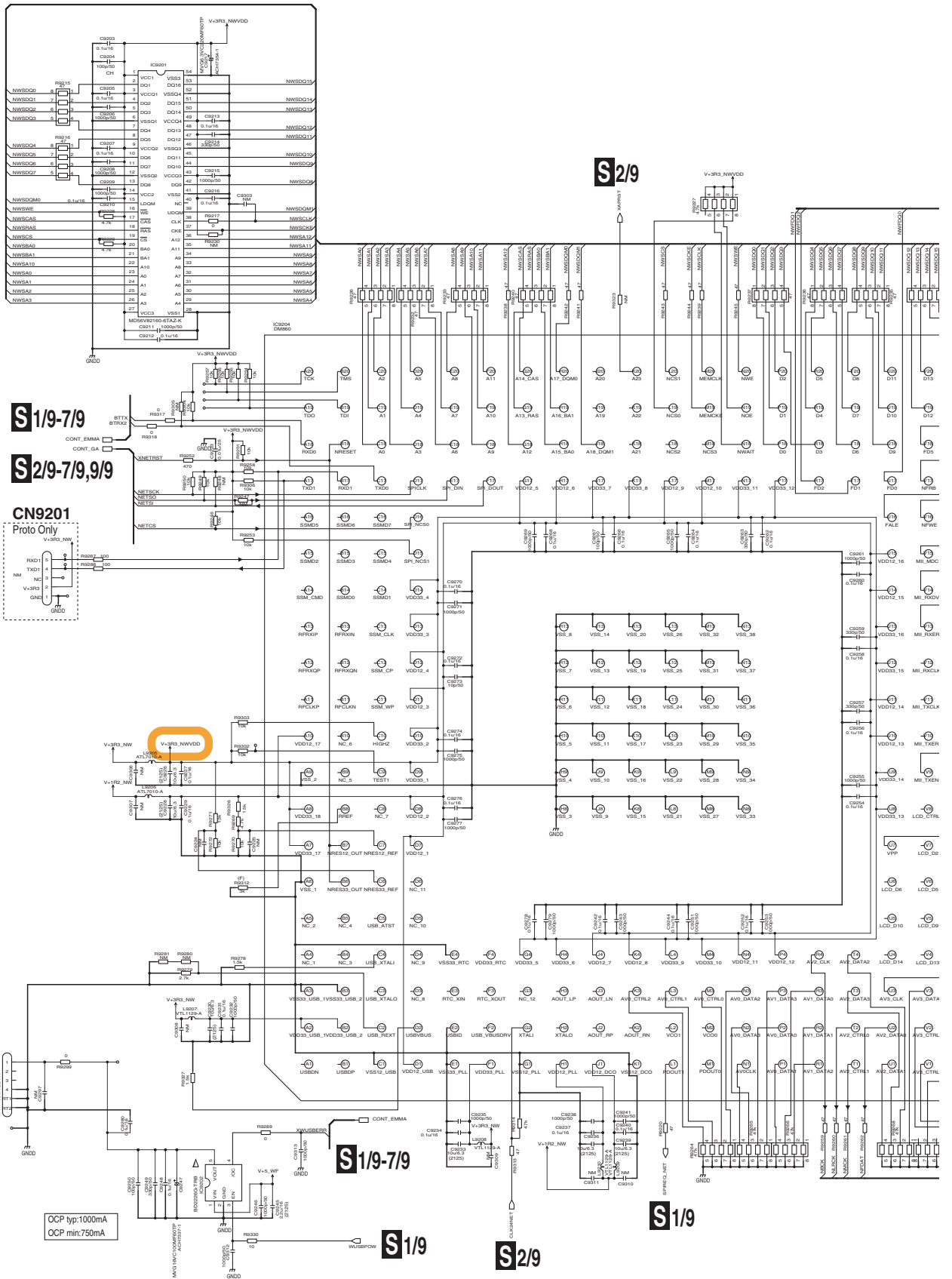
The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.





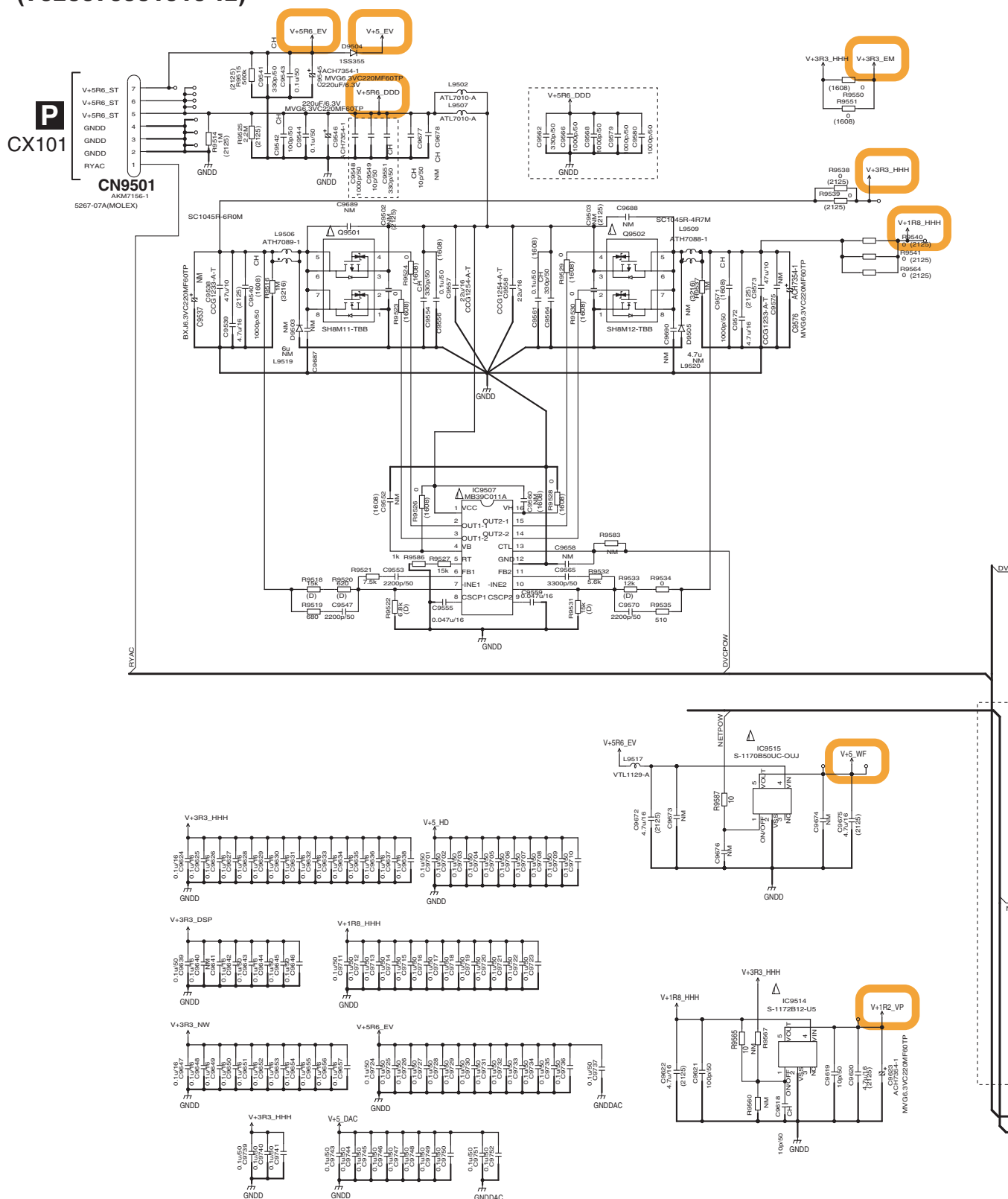
10.18 D-MAIN ASSY (8/9)

S8/9 D-MAIN ASSY (8/9) (7028070351010-IL)



S8/9

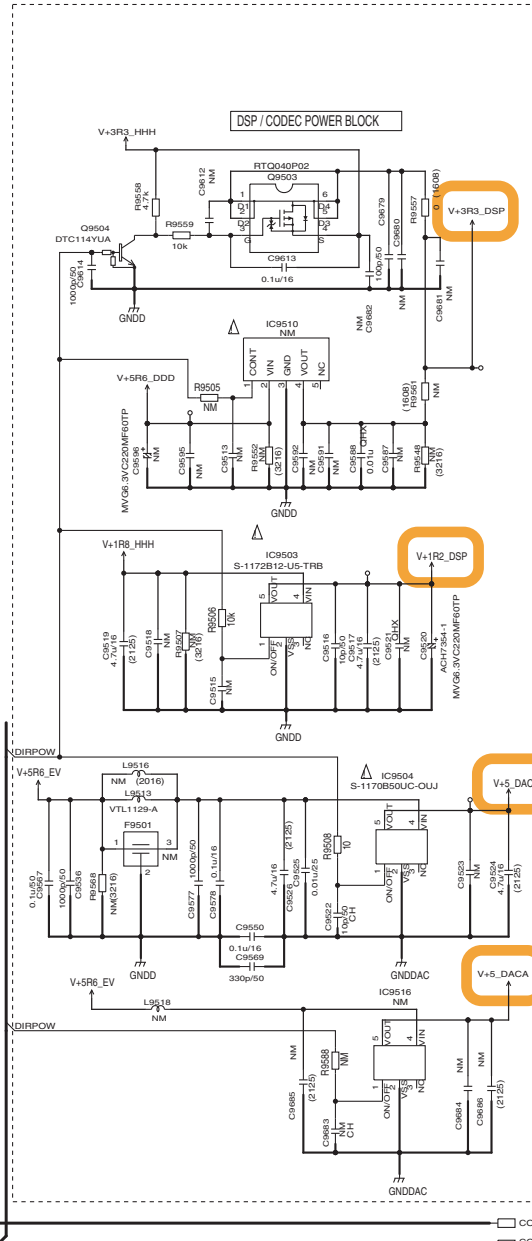
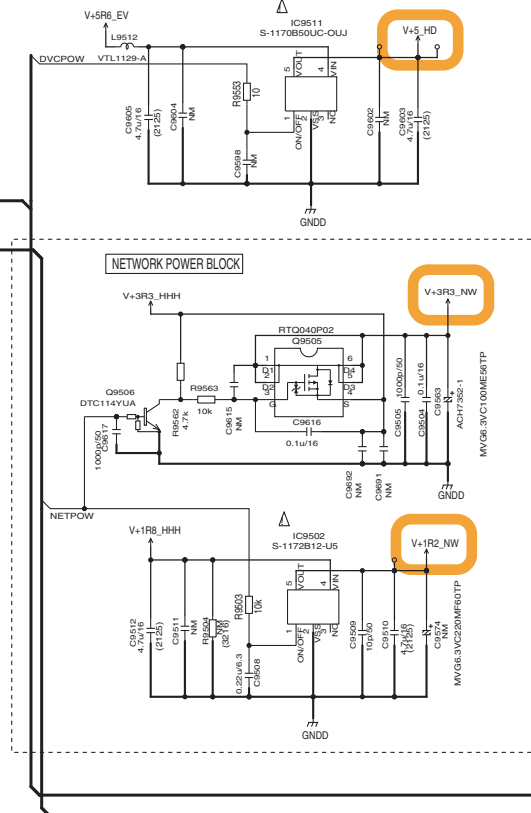
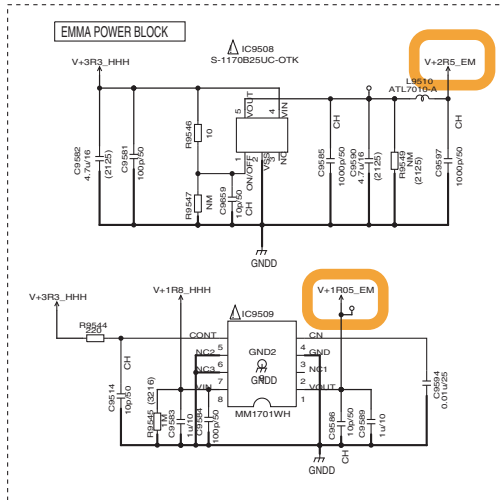
S9/9 D-MAIN ASSY (9/9)
(7028070351010-IL)



EM

V3_HHH

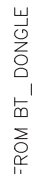
V+1R8_HHH
 R9540
 0 (2125)
 R9541
 0 (2125)
 R9564
 0 (2125)

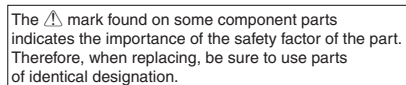


T



U

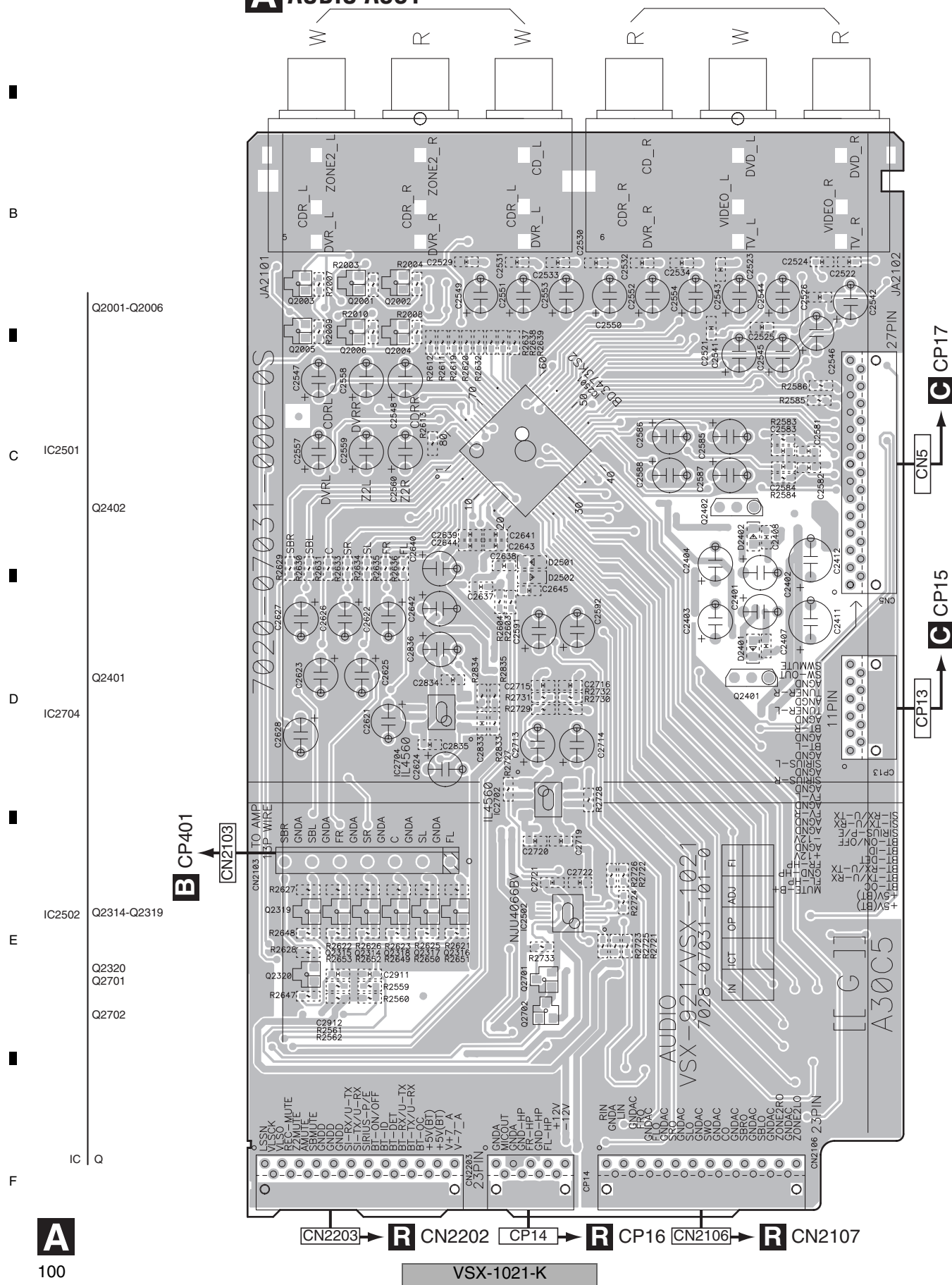




11.1 AUDIO ASSY

SIDE A

A AUDIO ASSY

SIDE A

11.2 AMP7 ASSY

SIDE A

A

B

C

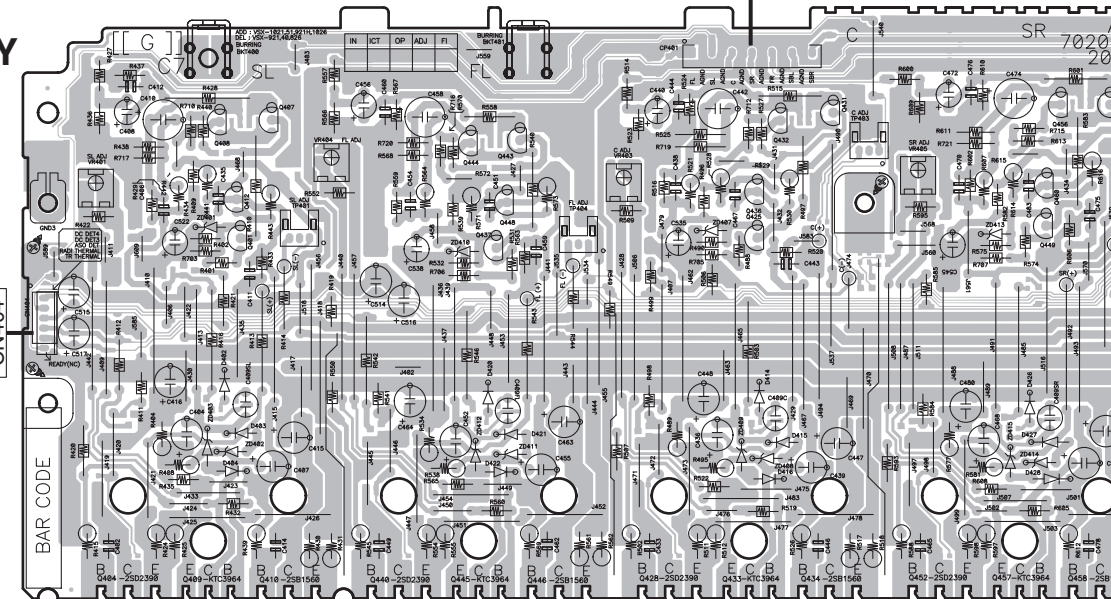
B AMP7 ASSY

CN501

CN404

CP401

A CN2103



IC											
Q	Q408 Q407		Q444 Q443		Q432 Q431		Q456				
	Q412		Q448		Q436		Q460				
	Q401		Q437		Q425		Q449				
	Q404	Q409	Q410	Q440	Q445	Q446	Q428	Q433	Q434	Q452	Q457

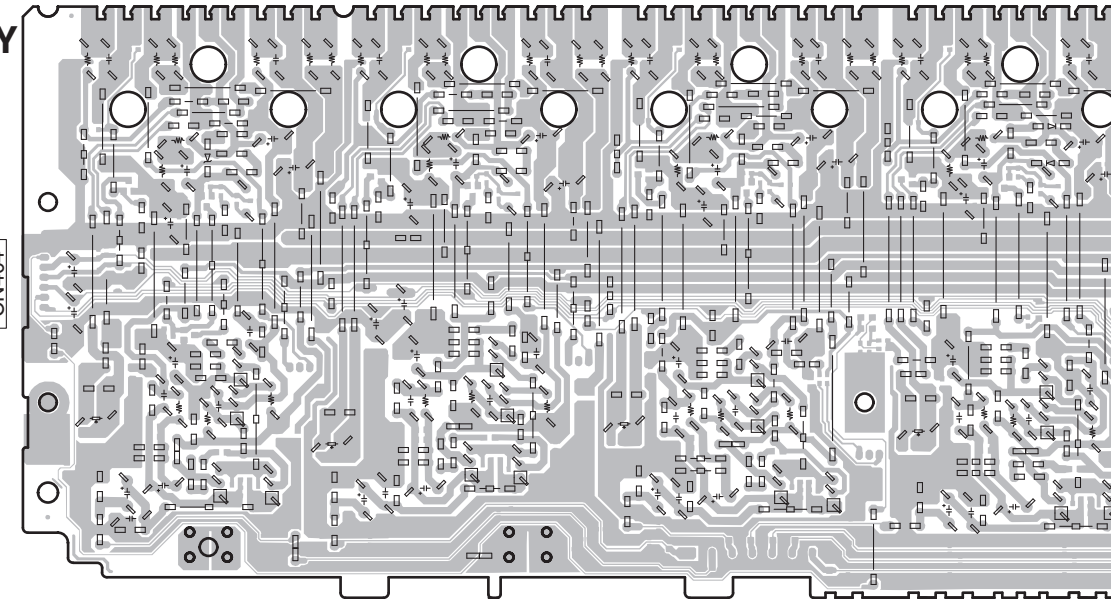
SIDE B

D

B AMP7 ASSY

CN404

CP401

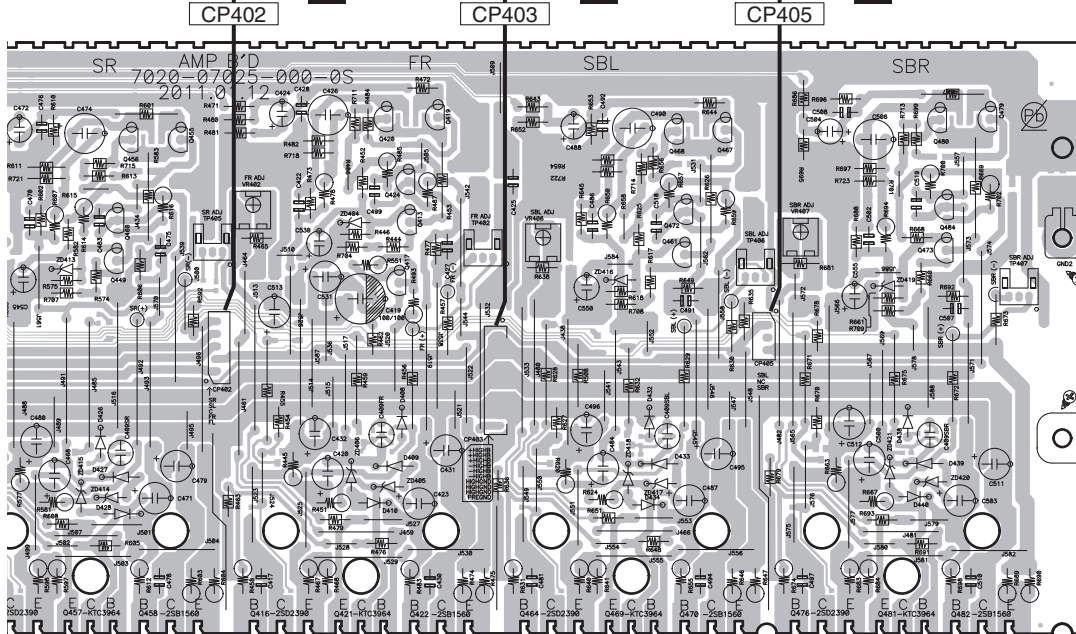


IC											
Q	Q478		Q475	Q466		Q463	Q418		Q415	Q454	
	Q482	Q481	Q476	Q470	Q469	Q464	Q422	Q421	Q416	Q458	Q457

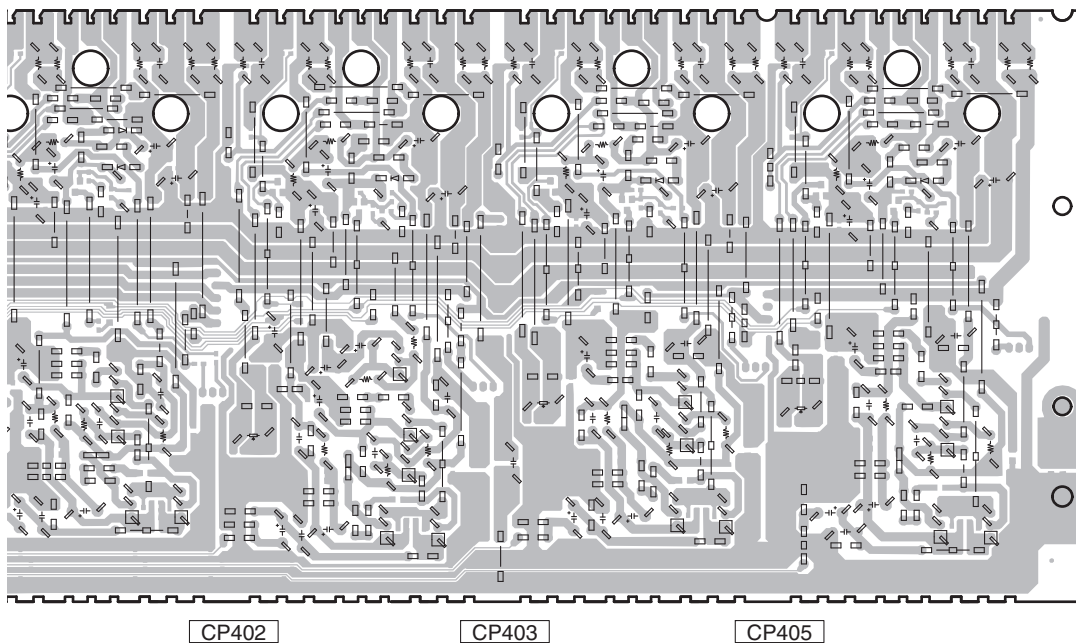
B

SIDE A

103

C CN1**C** CN3**C** CN2

Q456	Q455	Q420	Q419	Q468	Q467	Q480	Q479
Q460		Q424		Q472		Q484	
Q449		Q413		Q461		Q473	
Q452	Q457	Q458	Q416	Q421	Q422	Q464	Q469
						Q470	Q476
							Q481
							Q482

SIDE B

Q454	Q451	Q430	Q427	Q442	Q439	Q405	Q403
Q458	Q457	Q452	Q434	Q433	Q428	Q446	Q445
						Q440	Q410
							Q409
							Q404

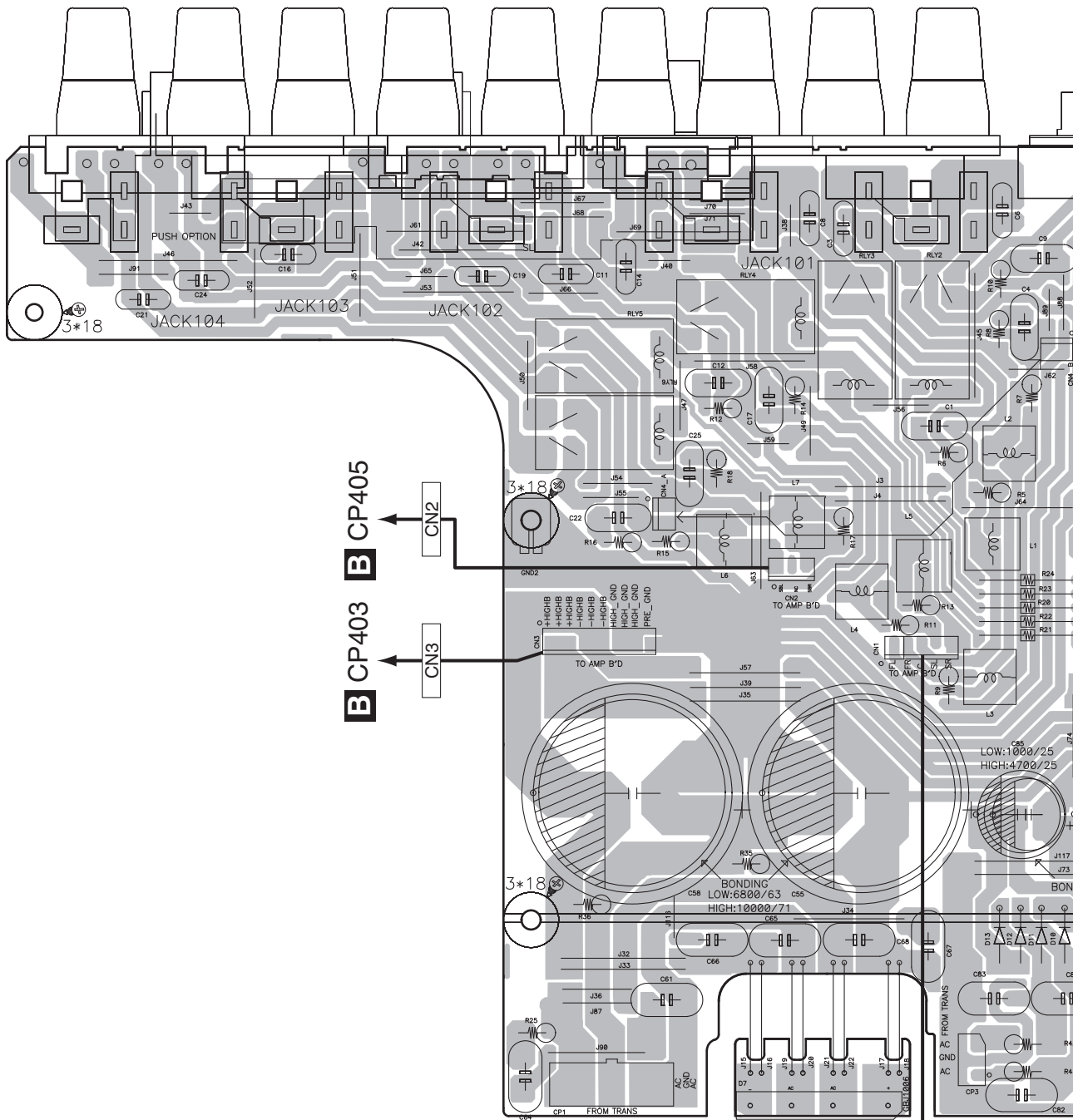
VSX-1021-K

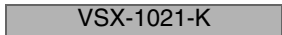
B

11.3 MAIN ASSY

SIDE A

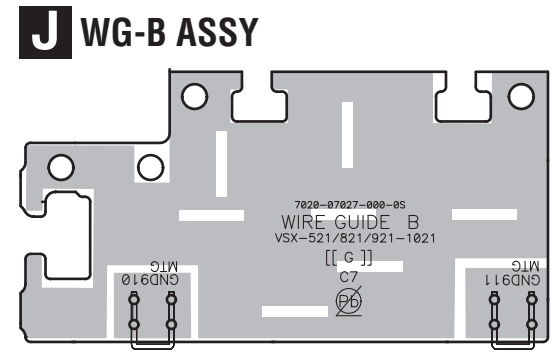
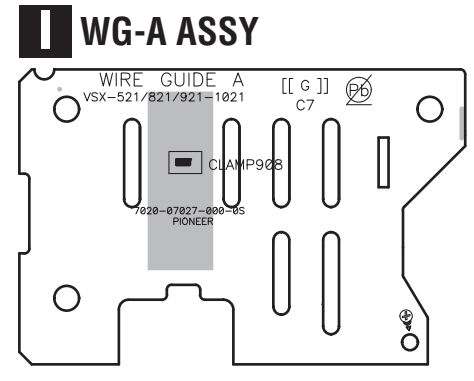
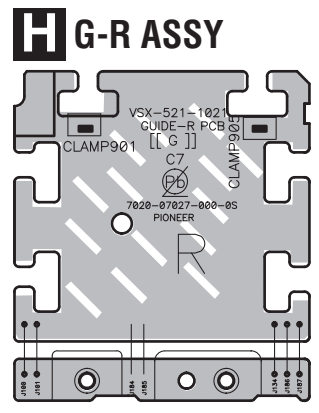
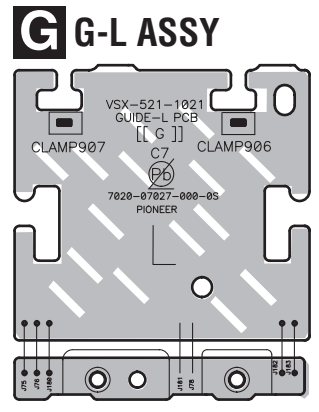
MAIN ASSY



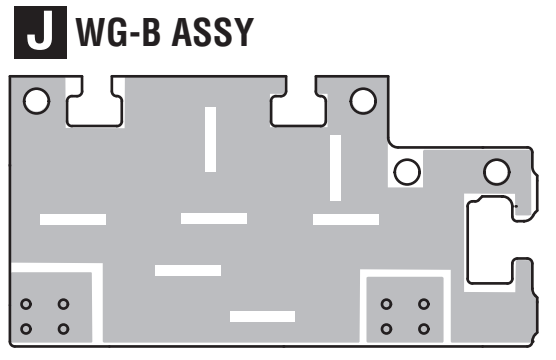
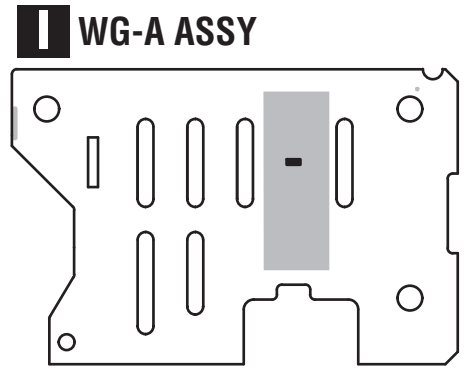
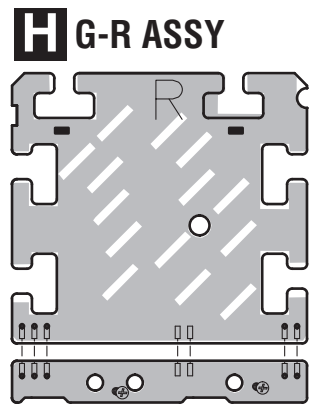
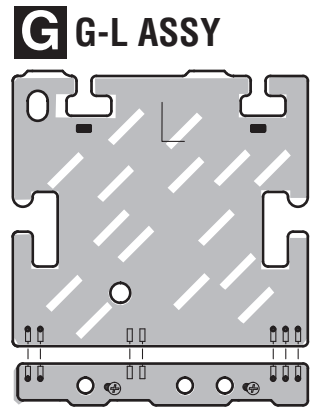


11.5 G-L, G-R, WG-A and WG-B ASSYS

SIDE A



SIDE B



G H I J

SIDE A

SIDE A

IC	IC1008
Q	

IC905

IC1007

IC1006

Q

Q1088

Q1089

Q1087

Q1084

Q1085

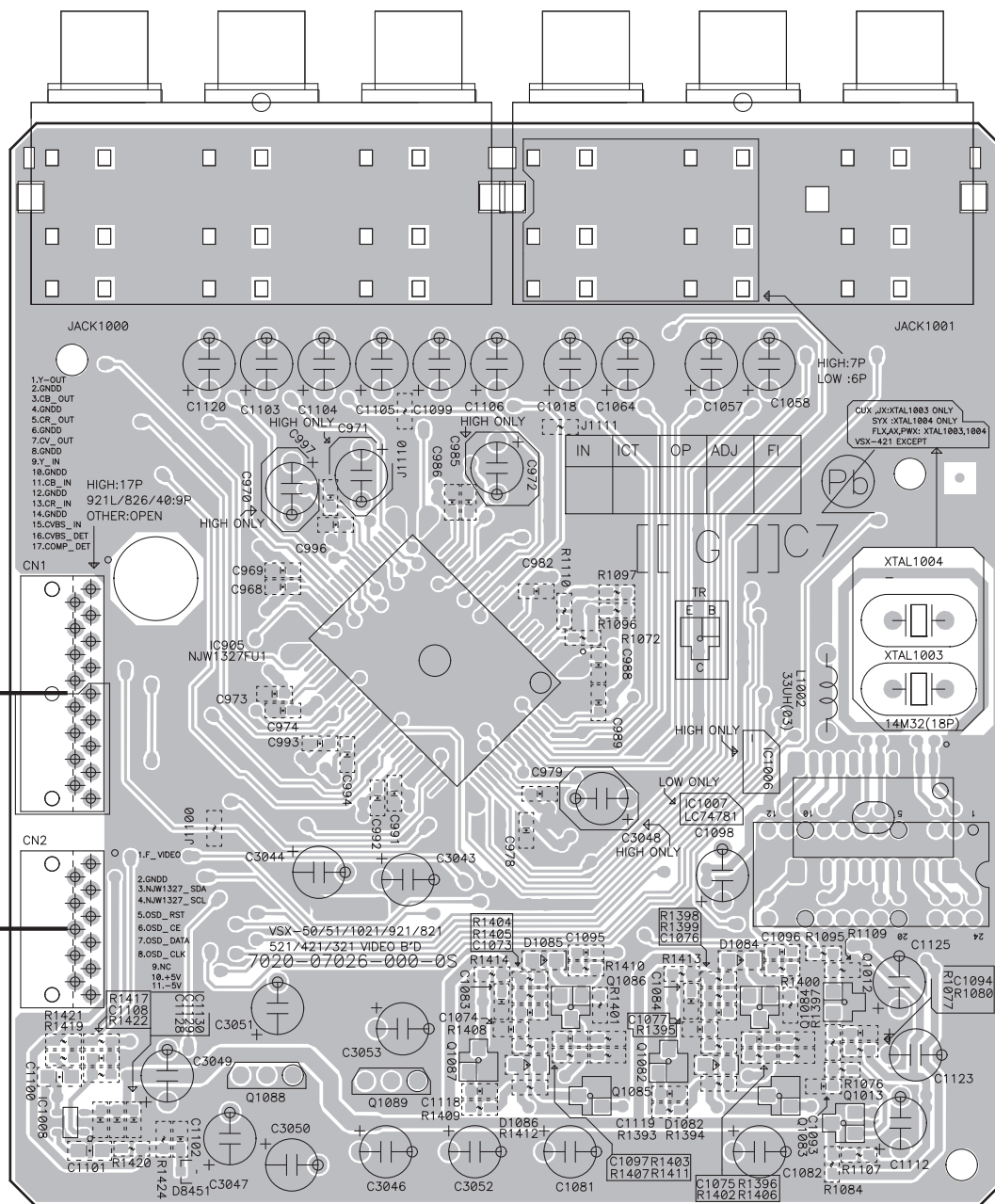
Q108

Q108

Q108

Q1012

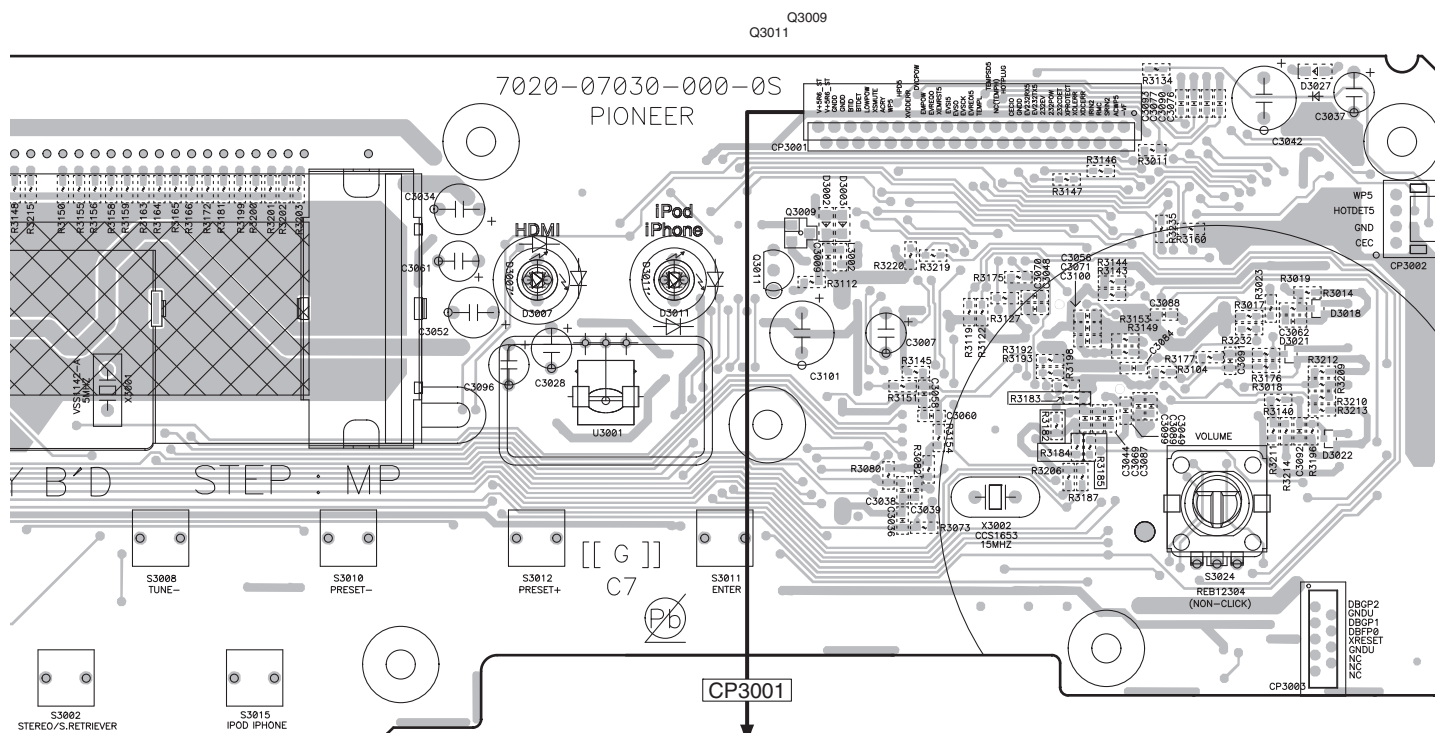
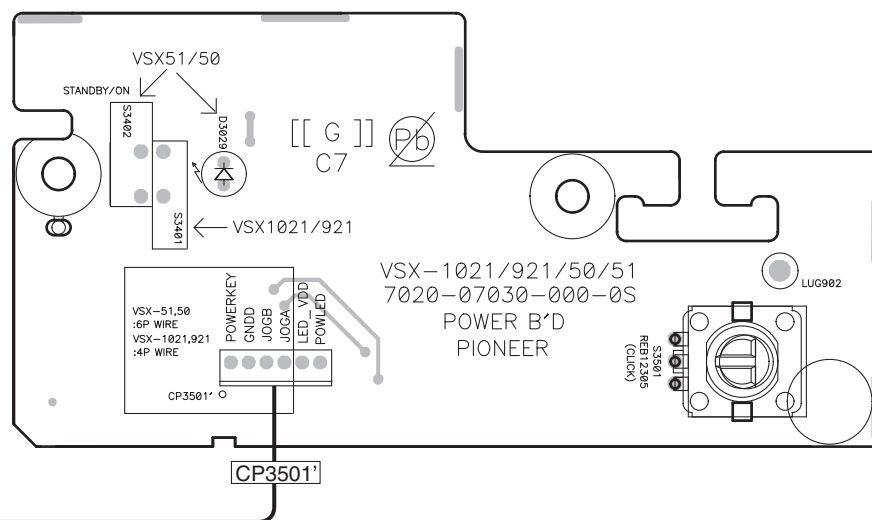
Q1013

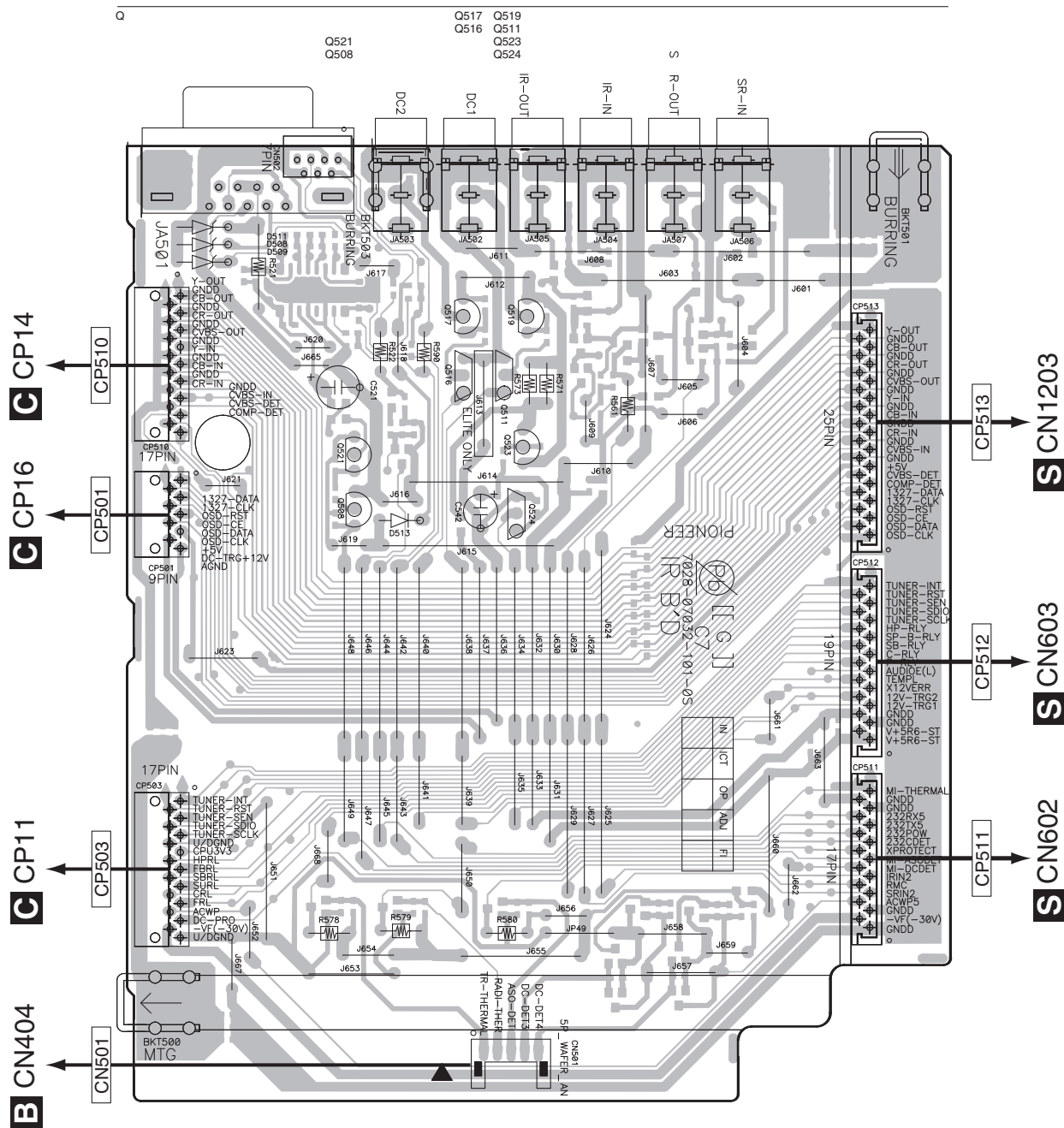


VSX-1021-K

SIDE A

N POWER ASSY

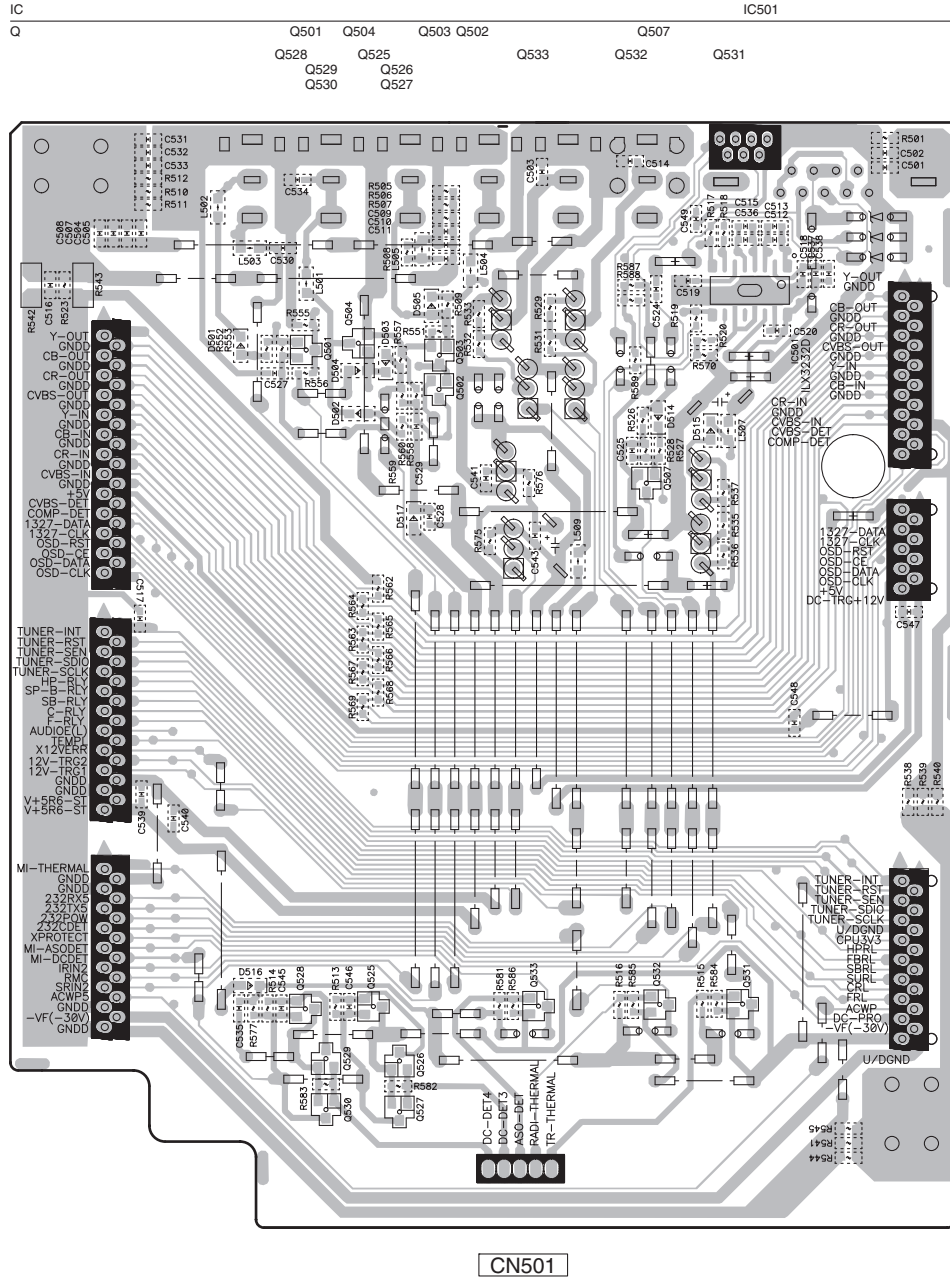




SIDE B

SIDE B

IR ASSY

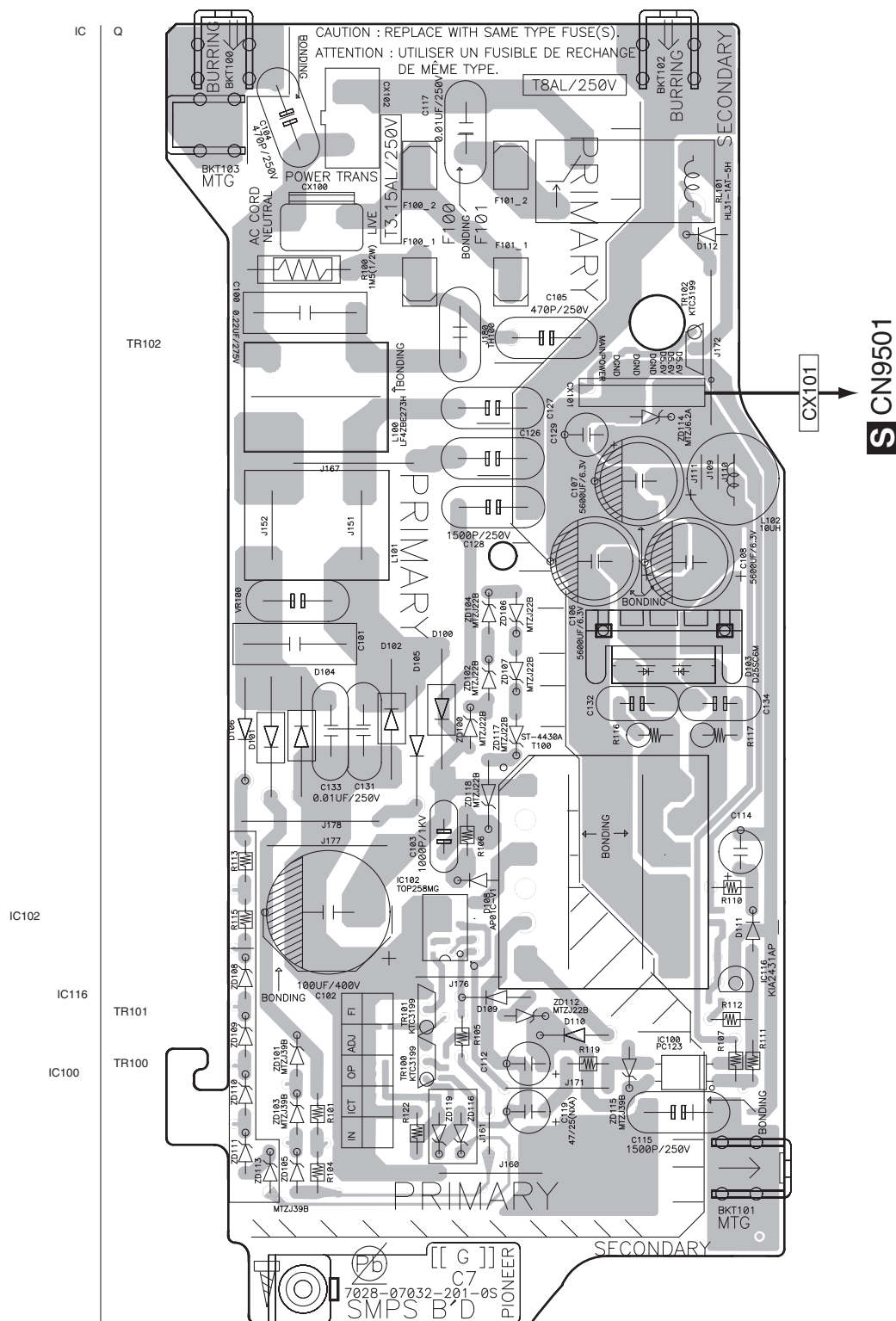


11.9 SMPS ASSY

SIDE A

SIDE A

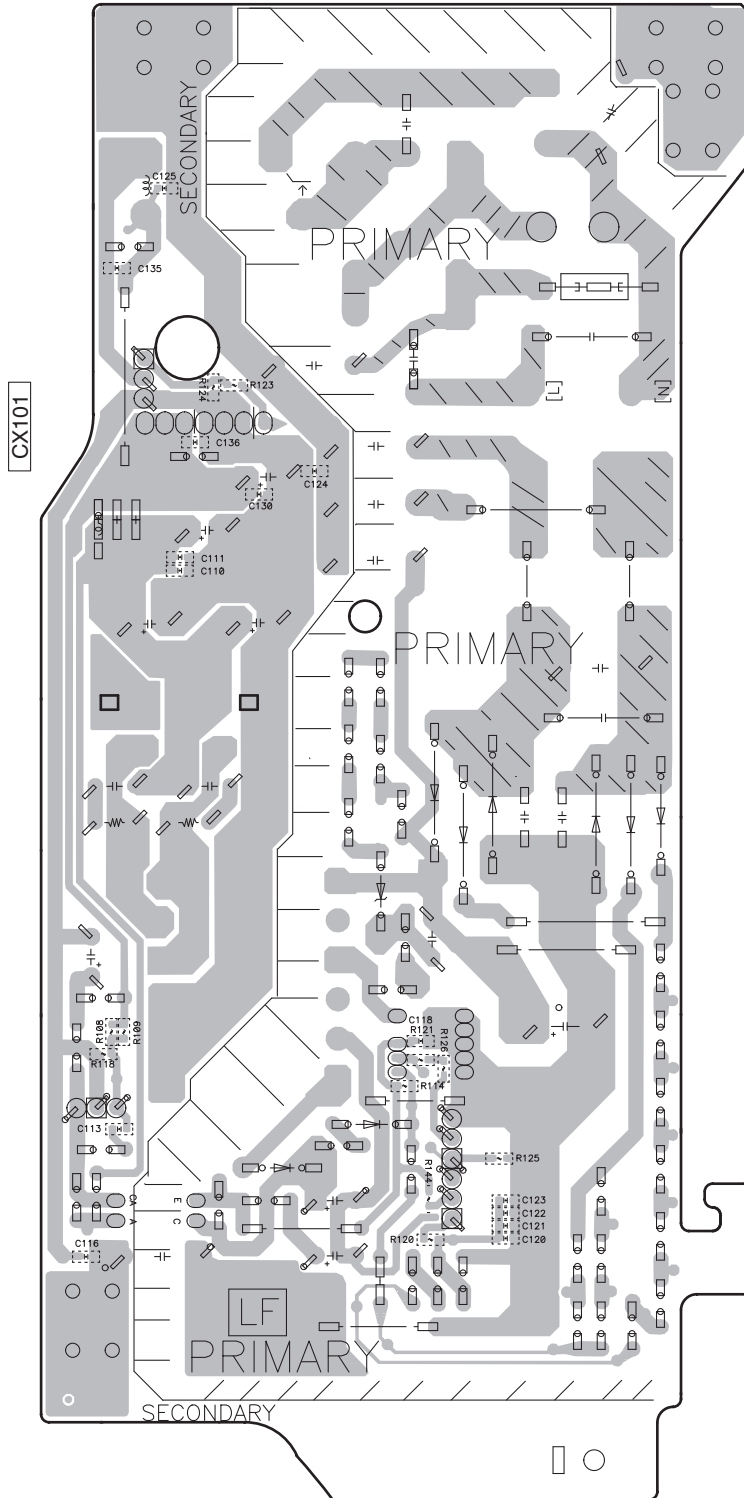
P SMPS ASSY



SIDE B

SIDE B

P SMPS ASSY



VSX-1021-K

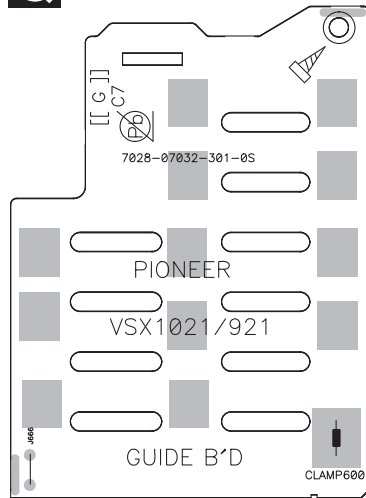
P

11.10 BR and CCG ASSYS

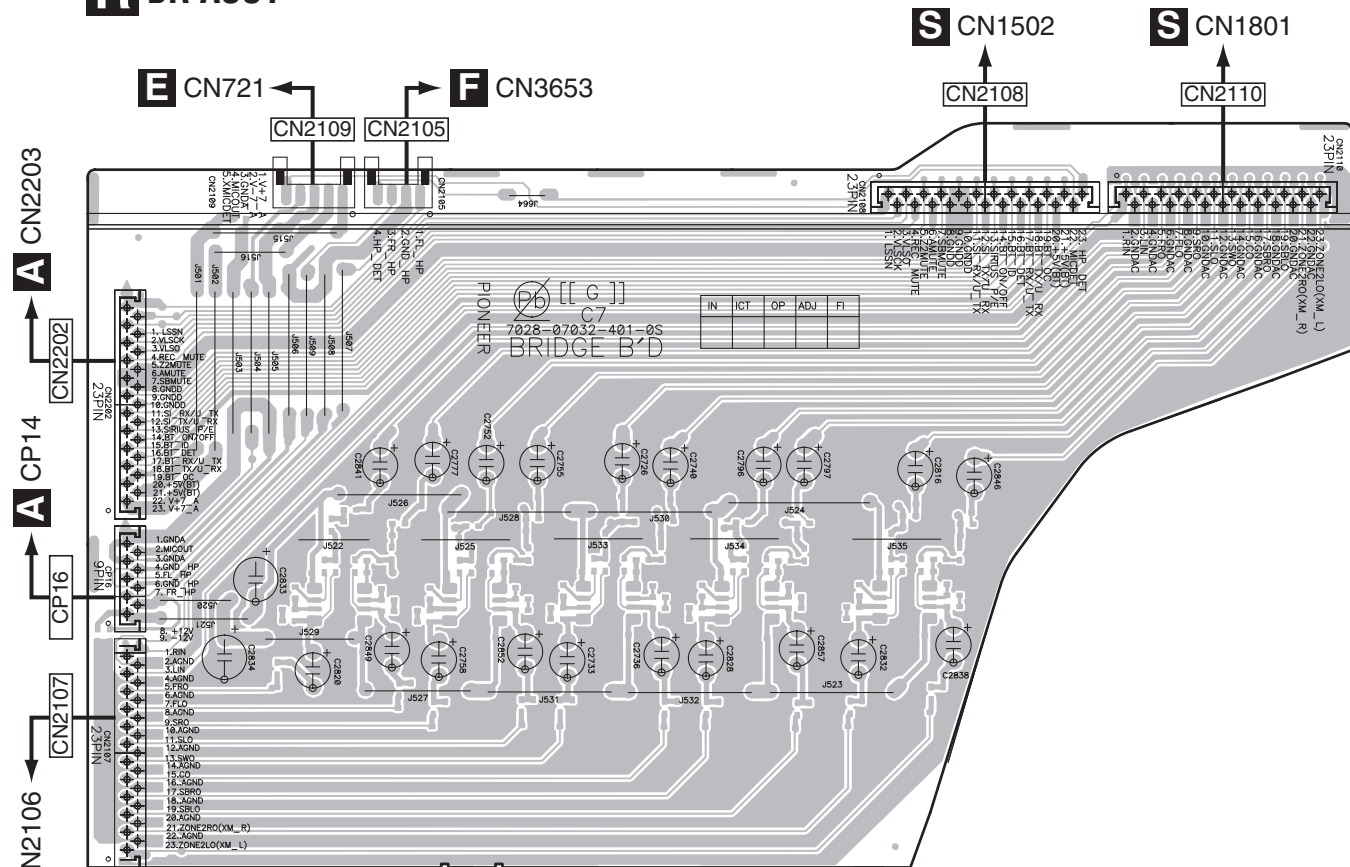
SIDE A

SIDE A

Q CCG ASSY



R BR ASSY



SIDE B

SIDE B

A

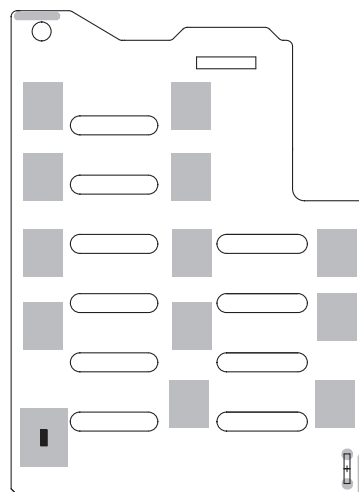
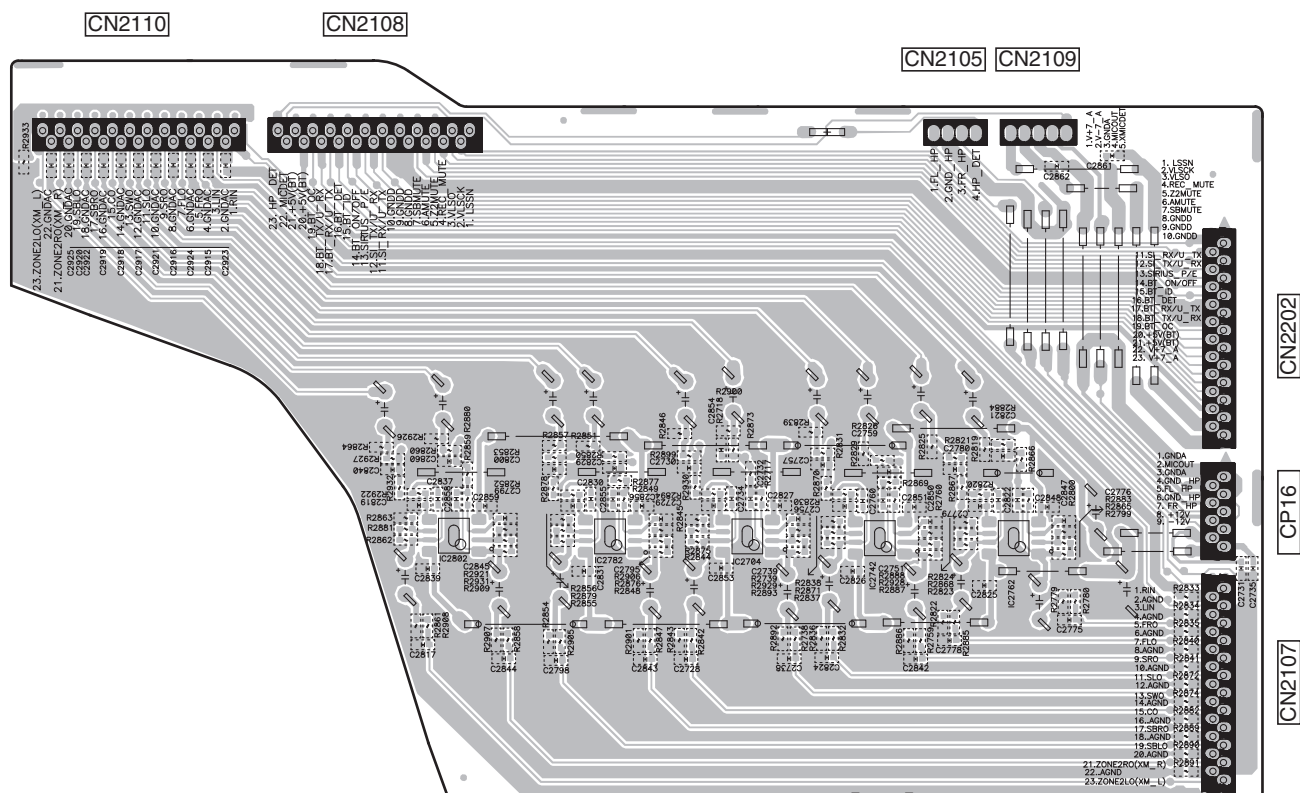
B

C

D

F

F

Q CCG ASSY**R BR ASSY**

IC

IC2802

IC2782

IC2704

IC2742

IC2762

VSX-1021-K

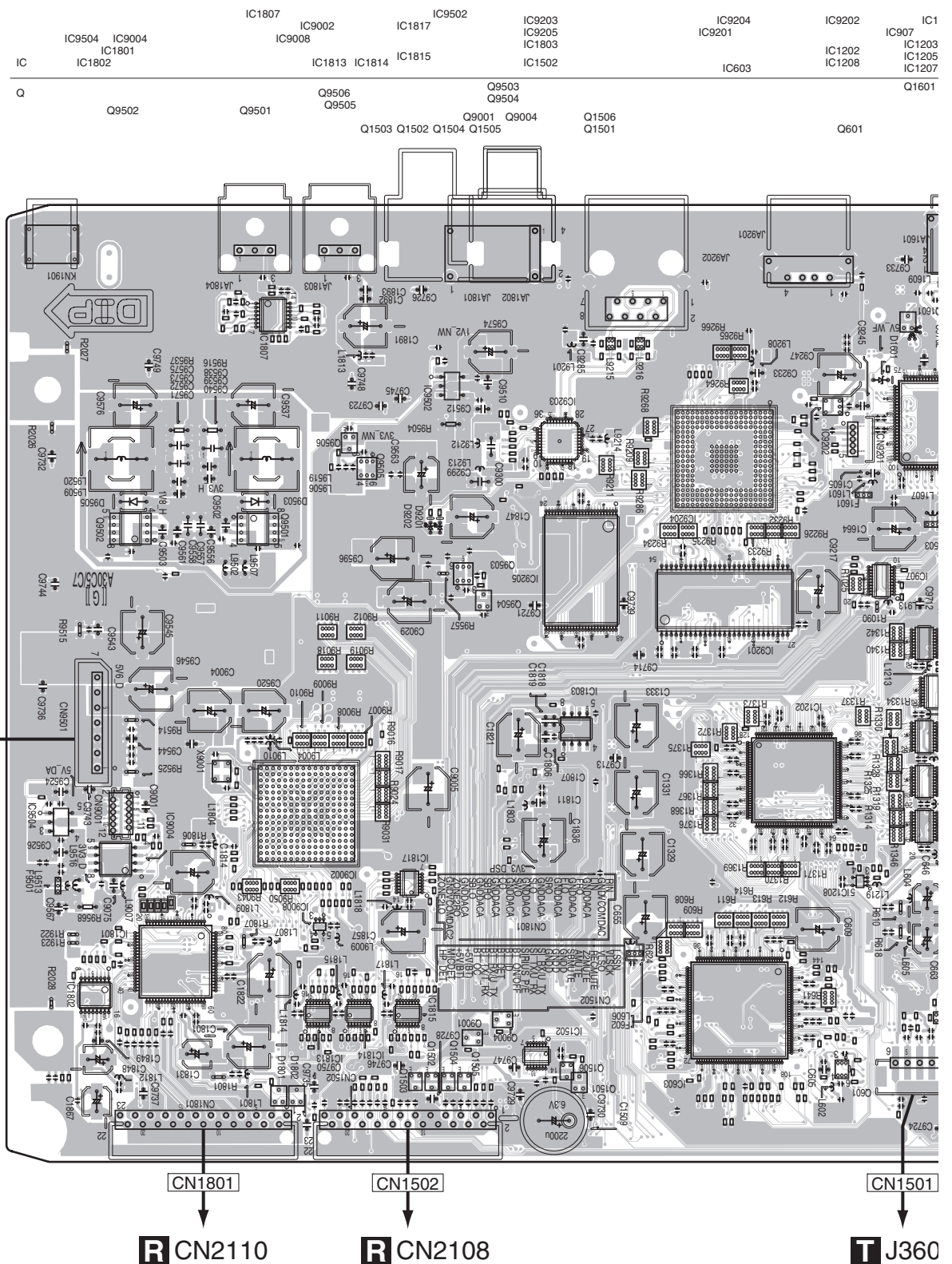
Q

R

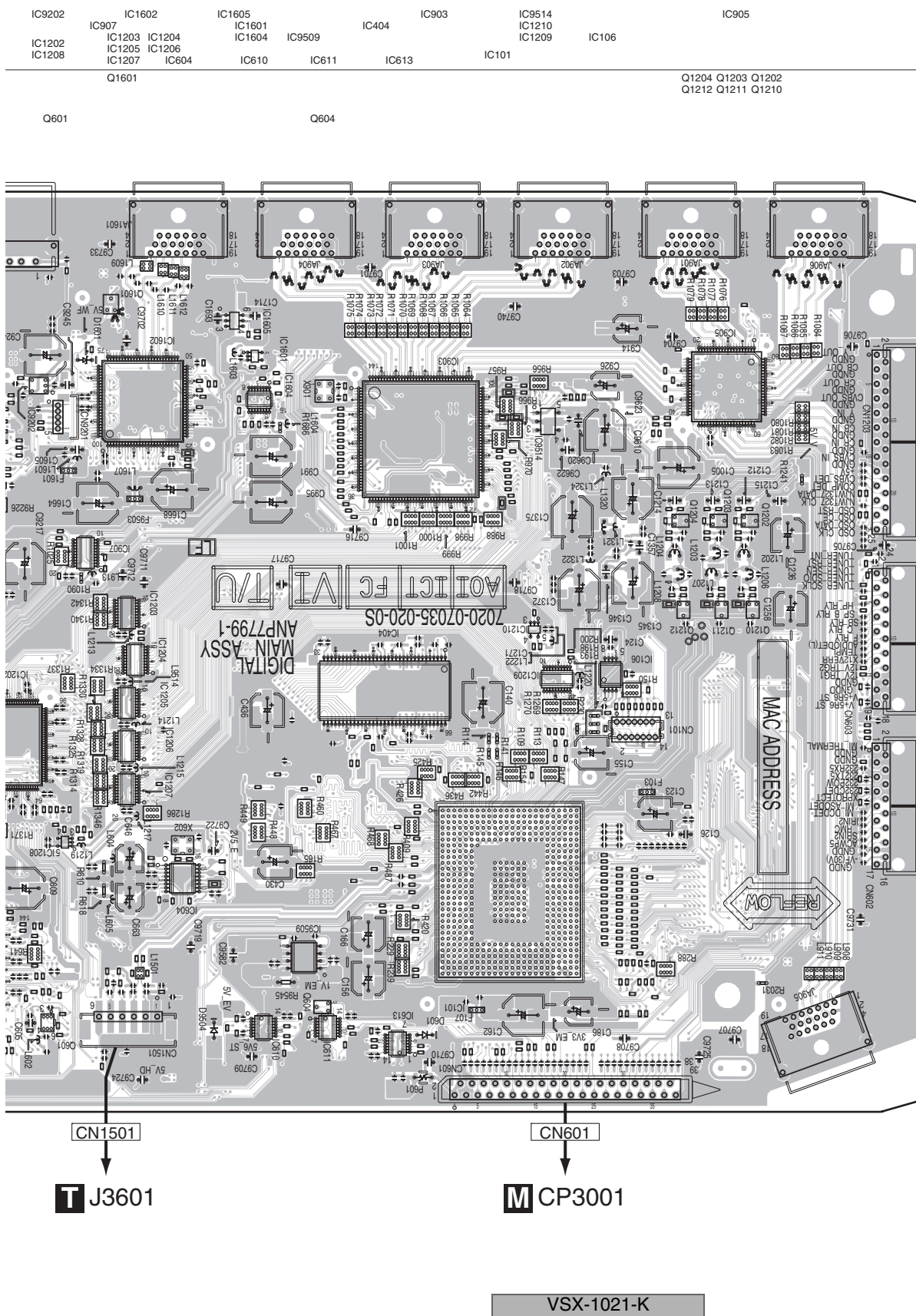
11.11 D-MAIN ASSY

SIDE A

S D-MAIN ASSY



S



T J3601

M CP3001

VSX-1021-K

SIDE B

A

B

C

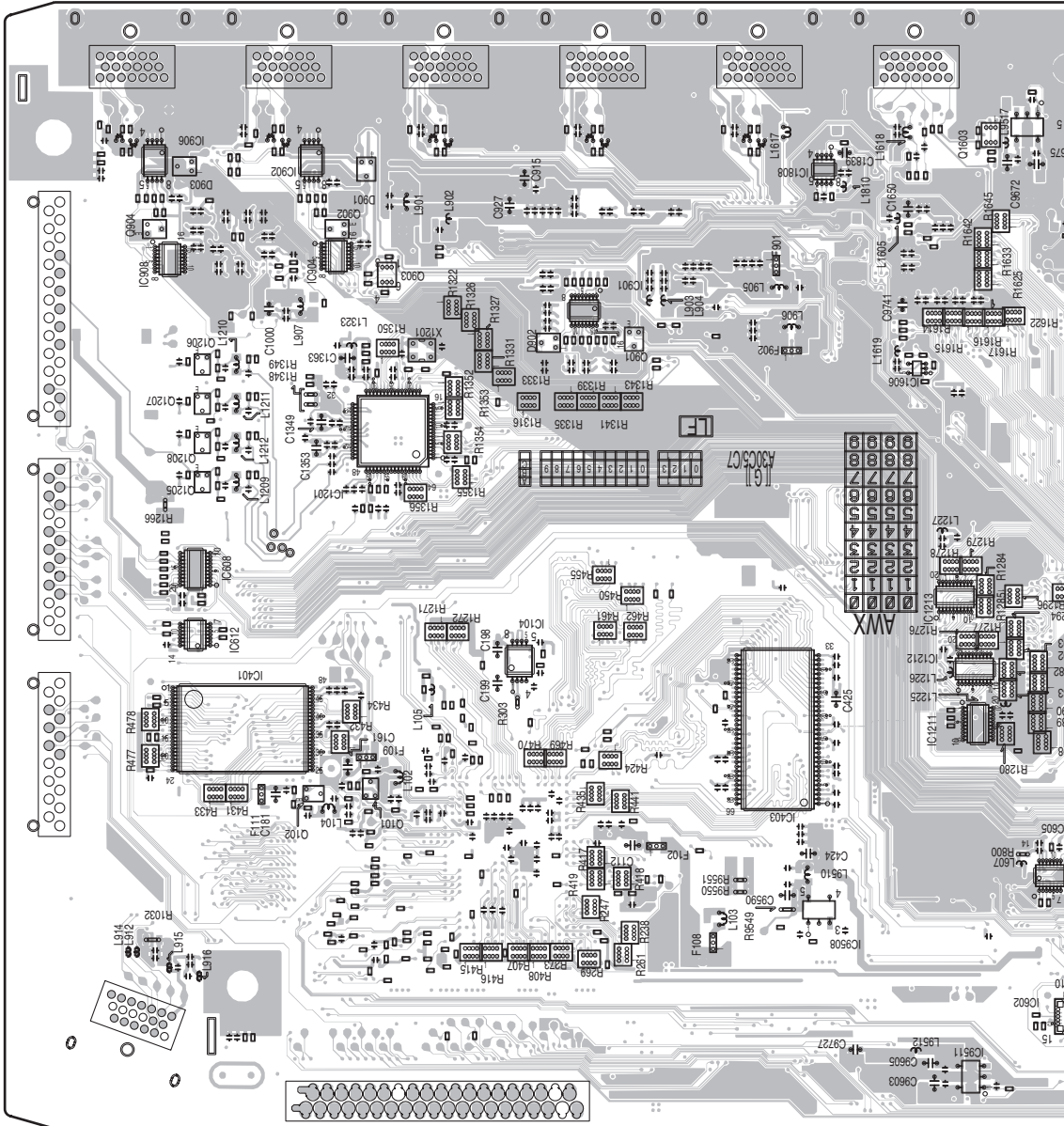
D

E

F

S D-MAIN ASSY

IC	IC906 IC908 IC608 IC612 IC401	IC902 IC904 IC1201	IC104 IC901	IC1808 IC403 IC9508	IC1606 IC1213 IC1212 IC1211 IC9511	IC9515 IC605 IC602
	Q904 Q1206 Q1207 Q1208 Q1205	Q902 Q903 Q102 Q101	Q901		Q1603	



SIDE B

A

B

C

D

F

F

S

125

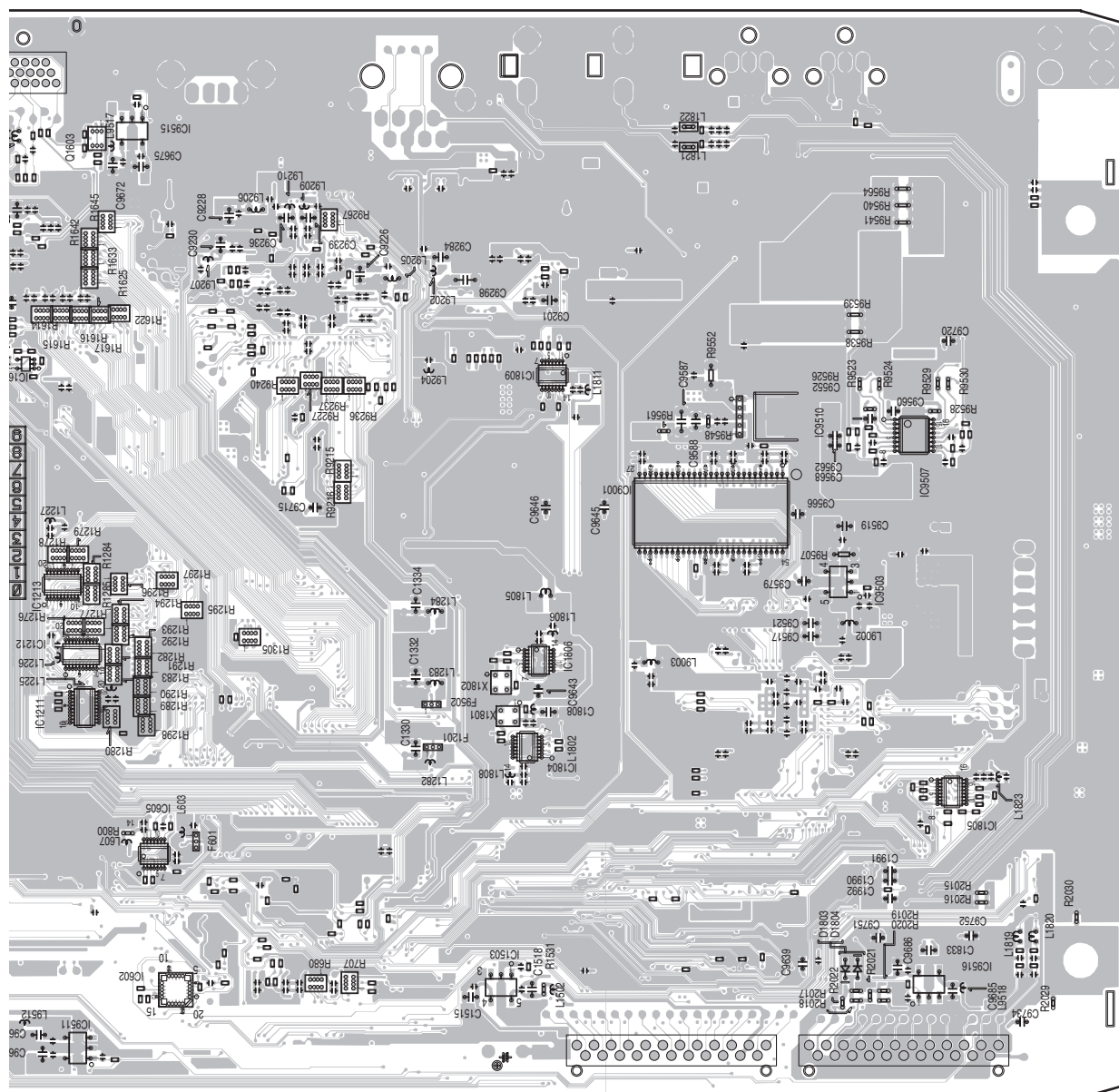
5

6

7

8

C1606	IC9515	IC1809	IC9001	IC9510	IC9507
	IC1213	IC1806		IC9503	
	IC1212	IC1804			
	IC1211				IC1805
	IC9511	IC605			
		IC602	IC1503		IC9516
	Q1603				



CN1501

CN1502

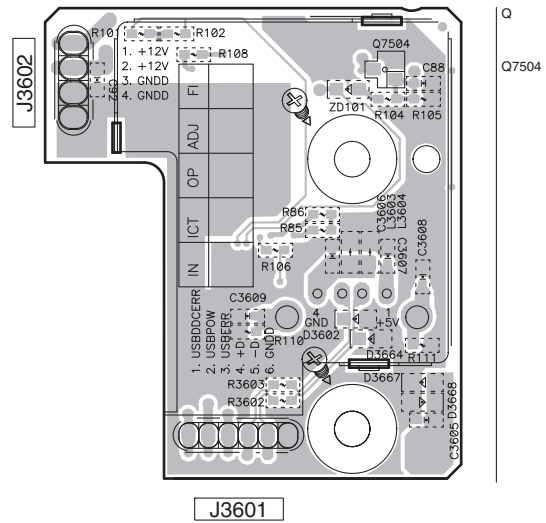
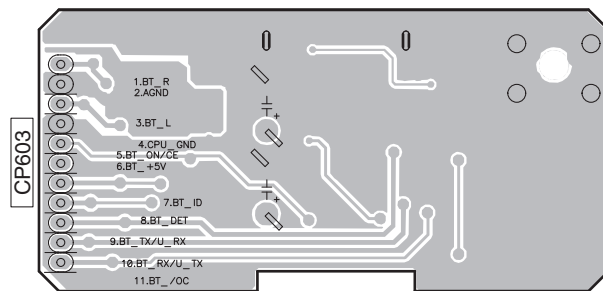
CN1801

VSX-1021-K

△

SIDE B

T F-USB ASSY

**U BT ASSY**

Q	Q604
IC	IC600

VSX-1021-K

NOTES: ● Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.
● The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
● When ordering resistors, first convert resistance values into code form as shown in the following examples.

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

560 Ω → 56 × 10¹ → 561.....RD1/4PU

5	6	1
---	---	---

 J
47 kΩ → 47 × 10³ → 473.....RD1/4PU

4	7	3
---	---	---

 J
0.5 Ω → R50.....RN2H

R	5	0
---	---	---

 K
1 Ω → 1R0.....RSIP

1	R	0
---	---	---

 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62 kΩ → 562 × 10¹ → 5621.....RN1/4PC

5	6	2	1
---	---	---	---

 F

● Meaning of the figures and others in the parentheses in the parts list.
Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.
IC 301 (A, 91, 111) IC NJM2068V

● SCHEMATIC DIAGRAM and PCB CONNECTION DIAGRAM → ● PCB PARTS LIST

BKT	→ none	BEAD	→ L	RLY	→ RY	SW	→ S
CLAMP	→ none	F	→ FU	RMC	→ U	VEC	→ S9***
W	→ none	FLT	→ V	RES	→ X		
LUG	→ none	JACK	→ JA	XTAL	→ X9***		
P	→ none	JACK	→ JA9***	BD	→ L7***		
PACK	→ 9***	JK	→ JA	LED	→ D8***		
CP	→ CN	PT	→ T	Z	→ D9***		
CP	→ CN9***	REG	→ IC	ZD	→ D9***		
FPC	→ CN9***	REG	→ IC9***	DZ	→ D9***		

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
LIST OF ASSEMBLIES							
NSP	1..MAIN ASSY	7025HK1009010-IL		NSP	1..AMP7 ASSY	7025HK1009077-IL	
	2..MAIN ASSY	70280702710J0-IL			2..AMP7 ASSY	7028070251010-IL	
	2..SW ASSY	7028070272010-IL					
	2..G-L ASSY	7028070273010-IL					
	2..G-R ASSY	7028070274010-IL					
	2..WG-A ASSY	7028070276010-IL					
	2..WG-B ASSY	7028070277010-IL					
NSP	1..FRONT ASSY	7025HK1009012-IL		A AUDIO ASSY			
	2..FRONT ASSY	7028070301010-IL		SEMICONDUCTORS			
	2..POWER ASSY	7028070302010-IL		IC 2501		BD3473KS2	
	2..MIC ASSY	7028070303030-IL		IC 2502		J040406600010-IL	
	2..F-V ASSY	7028070304040-IL		IC 2702,2704		J121456000080-IL	
	2..HP ASSY	7028070306010-IL		Q 2001-2006,2314-2320		J522020011210-IL	
				Q 2401		J5023209Y0010-IL	
NSP	1..IR ASSY	7025HK1009014-IL		Q 2402		J5001281Y0010-IL	
	2..IR ASSY	7028070321010-IL		Q 2701		J520103S00210-IL	
	2..SMPS ASSY	7028070322010-IL		Q 2702		J522101411210-IL	
	2..CCG ASSY	7028070323010-IL		D 2401,2402		K06607R54P400-IL	
	2..BR ASSY	7028070324010-IL		D 2501,2502		K005041480030-IL	
NSP	1..AUDIO ASSY	7025HK1009013-IL		MISCELLANEOUS			
	2..AUDIO ASSY	7028070311010-IL		JA 2101 TER,RCA 9PIN		G607902AA550Y-IL	
NSP	1..D-MAIN ASSY	7025HK1009011-IL		JA 2102 TER,RCA 9PIN		G607902AA560Y-IL	
	2..D-MAIN ASSY	7028070351010-IL		CN5 CN,WAFER		L109012522710-IL	
NSP	1..F-USB ASSY	7025HK1009015-IL		CN13 CN,WAFER		L109012521110-IL	
	2..F-USB ASSY	7028070331010-IL		CN14 CN,WAFER		L109012520910-IL	
NSP	1..VIDEO ASSY	7025HK1009018-IL		CN2103 CN,WIRE 2MM		L002151132621-IL	
	2..VIDEO ASSY	7028070261010-IL		CN2106,2203 CN,WAFER		L109012522310-IL	
NSP	1..BT ASSY	7025HK1009019-IL		CAPACITORS			
	2..BT ASSY	7028070231010-IL		C 2411,2412		D040221083110-IL	

Mark	No.	Description	Part No.
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B AMP7 ASSY

SEMICONDUCTORS

A	Q	401,413,425,437	J5001024Y0050-IL
	Q	403,405,415,427	J520254010010-IL
	Q	406,418,430,442	J522255510010-IL
	Q	407,408,417,419	J5000992F0050-IL
	Q	412,424,436,448	J5023206Y0050-IL

■	Q	420,431,432,443	J5000992F0050-IL
	Q	439,451,463,475	J520254010010-IL
	Q	444,455,456,467	J5000992F0050-IL
	Q	449,461,473	J5001024Y0050-IL
	Q	454,466,478	J522255510010-IL

B	Q	460,472,484	J5023206Y0050-IL
	Q	468,479,480	J5000992F0050-IL
	D	402-404,408-410	K000013300520-IL
	D	414-416,420-422	K000013300520-IL
	D	426-428,432-434	K000013300520-IL

■	D	438-440	K000013300520-IL
	D	9401,9404,9407,9410	K06005R134520-IL
	D	9402,9403,9405,9406	K06004R344520-IL
	D	9408,9409,9411,9412	K06004R344520-IL
	D	9413,9416,9419	K06005R134520-IL

	D	9414,9415,9417,9418	K06004R344520-IL
	D	9420,9421	K06004R344520-IL

C

MISCELLANEOUS

VR	401-407 VR, SEMI CARBON MOLD	C541102315000-IL
CN	404 CN, WIRE 2MM	L002600050050-IL
CN	9401 CN, WAFER 2.0MM	L101200101310-IL
CN	9402 CN, WAFER 2.5MM	L102526700500-IL
CN	9403 CONNECTOR (10P)	L101200101010-IL
CN	9405 CONNECTOR (3P)	L102526700300-IL
	400,401 BRACKET	4010210196100-IL
TP	401-407 CN, WAFER 2.0MM	L101200100320-IL

D RESISTORS

⚠	R	404,408,445,451	C060075265050-IL
	R	406,450,494,537	F320184710050-IL
	R	415,439,458,483	C060010165060-IL
	R	424,425,430,431	N113136647820-IL
	R	434,478,521,564	C060033265050-IL

■	R	441,485,528,571	C060012265050-IL
	R	443,487,530,573	C060047065060-IL
	⚠	R	467,468,474,475
	R	489,495,534,538	C060075265050-IL
	R	493	C060033065050-IL

E	⚠	R	502,526,545,551
	⚠	R	511,512,517,518
	⚠	R	554,555,561,562
	⚠	R	569,588,612,631
	R	577,581,620,624	C060075265050-IL

■	⚠	R	580,623,666
	⚠	R	597,598,603,604
	R	607,650,694	F320184710050-IL
	R	614,657,700	N113136647820-IL
	R	616,659,702	C060033265050-IL

F	⚠	R	640,641,646,647
	⚠	R	655,674,698
	R	663,667	C060010165060-IL
	⚠	R	683,684,689,690
			C060075265050-IL
			N113136647820-IL

Mark	No.	Description	Part No.
------	-----	-------------	----------

CAPACITORS

C	402,414,417,430	D00410107D051-IL
C	406,422,438,454	D00022106D051-IL
C	412,428,444,460	D004561277051-IL
C	419	D04010108C240-IL
C	433,446,449,462	D00410107D051-IL

C	465,478,481,494	D00410107D051-IL
C	470,486,502	D00022106D051-IL
C	476,492,508	D004561277051-IL
C	497,510	D00410107D051-IL
C	513,514	D040331081050-IL

C MAIN ASSY

SEMICONDUCTORS

⚠	IC	1	J126781200040-IL
⚠	IC	2	J126791200060-IL
⚠	IC	3	J126780500110-IL
⚠	IC	4	J126790500070-IL
	Q	1-6	J520102371210-IL

Q	8-13	J522102371210-IL
Q	14,15	J5023198Y0000-IL
Q	16	J5000992F0050-IL
Q	17	J5000916Y0050-IL
D	1-6,19	K005041480030-IL

⚠	D	7	K047100600010-IL
	D	8	K000013300520-IL
⚠	D	10-13	K000400700010-IL
	D	23	K000400700010-IL
	D	26-29	RB551V-30

⚠	D	4912	K047604000020-IL
	D	9001	K06003R344520-IL
	D	9002	K06005R144520-IL
	D	9024,9025	K06012R044520-IL

MISCELLANEOUS

L	1-7 COIL, FILTER-INDUCTOR	D330900001330-IL
JA	101,102 TER, BOARD SCREW 8P	G614108V1010M-IL
JA	104 TER, BOARD SCREW 2P	G611201A0200Y-IL
RY	1 RELAY	G680240202030-IL
RY	2-6 RELAY	G680120503020-IL

CN	1 CN, WIRE	L000231050040-IL
CN	2 CN, WIRE	L000311020030-IL
CN	3 CN, WIRE	L002241102620-IL
CN	6 CN, WAFER 2.5MM	L102526700400-IL
CN	9001 CONNECTOR	L108353280360-IL

CN	9002 CN, WAFER 3.96MM	L104353130360-IL
CN	9003 CONNECTOR (3P)	L102526700300-IL
CN	9005 CN, WAFER	L109012511510-IL
CN	9006,9008,9011,9014 CN, WAFER	L109012511710-IL
CN	9007 CN, WAFER 2.0MM	L101200100510-IL

CN	9009,9015 CN, WAFER	L109012511110-IL
CN	9010 CN, WIRE	L002151050160-IL
CN	9016 CN, WAFER	L109012510910-IL
CN	9017 CN, WAFER	L109012512710-IL

RESISTORS

R	5,7,9,11	C060010065050-IL
R	6,8,10,12	C060010066050-IL
R	13,15,17,25	C060010065050-IL
R	14,16,18	C060010066050-IL
R	28-30	C060022265050-IL

Mark	No.	Description	Part No.
R	33,34,41,42		C060R22065050-IL
R	35,36		C060047363050-IL
R	37,38,47		C060033166050-IL
R	39,40		C060015165050-IL
R	64		C060022063050-IL
R	66		C0604R7065050-IL

CAPACITORS

C	1,3,4,6	D02047306C060-IL
C	8,9,11,12	D02047306C060-IL
C	14,16,17,19	D02047306C060-IL
C	21,22,24,25	D02047306C060-IL
C	55,58	D040103089000-IL

C	61,64	D02010406C060-IL
C	65-68	D02010407H080-IL
C	76	D040682083000-IL
C	81-83	D02047306C060-IL
C	84,85	D040472084020-IL

C	101	D040331088230-IL
---	-----	------------------

D SW ASSY **SEMICONDUCTORS**

Q	602,603	J522020011210-IL
D	9604,9605	K06606R24P400-IL

MISCELLANEOUS

L	601	BEAD,COIL	7610010030000-IL
JA	602	JACK,DIN	G403515397000-IL
JA	807	TER,RCA 1PIN	G600107A0000Y-IL
CN	602	CN.WAFER 2.0MM	L101100041110-IL
CN	9601	CN,WAFER	L109012521510-IL

CN	9602	CN,WAFER	L109012521710-IL
	601	BRACKET	4010210196100-IL
	9601	TUNER,FM/AM	E903004100780-IL

E HP ASSY **SEMICONDUCTORS**

D	705,706	K005041480030-IL
---	---------	------------------

MISCELLANEOUS

JA	701	JACK,D6.5	G402PJ612AG1Y-IL
CN	721	CN,WIRE 2MM	L002361042420-IL

F MIC ASSY **SEMICONDUCTORS**

IC	3652	J121458000020-IL
D	3659,3670,3671	K06605R14P400-IL

MISCELLANEOUS

L	3654,3655	CHIP BEAD	D340160811210-IL
JA	3654	JACK,D3.5	G401PJ354H40Y-IL
CN	3653	CN,WIRE 2MM	L002321050050-IL

G G-L ASSY

There is no service parts.

Mark	No.	Description	Part No.
------	-----	-------------	----------

H G-R ASSY

There is no service parts.

I WG-A ASSY

There is no service parts.

J WG-B ASSY

There is no service parts.

K VIDEO ASSY **SEMICONDUCTORS**

IC	905	NJW1327FU1
IC	1007	PDC162A
IC	1008	NJM2505AF
Q	1012,1084	J520015301210-IL
Q	1013	J522305200050-IL

Q	1082	J522101411210-IL
Q	1083	J522020011210-IL
Q	1089	J5023209Y0010-IL
D	1082,1084	K005041480030-IL
D	8451	K005021700200-IL

D	9607	K06603R94P400-IL
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MISCELLANEOUS

L	1002	COIL,FILTER-INDUCTOR	D330330700520-IL
JA	1000	TER,RCA 9PIN	G607902AD013Y-IL
JA	1001	TER,RCA 9PIN	G607902AD132Y-IL
X	1003	CRYSTAL	E80014R318080-IL
CN	1	CN,WAFER	L109012521710-IL

CN	2	CN,WAFER	L109012521110-IL
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L F-VIDEO ASSY **SEMICONDUCTORS**

D	3656,3657	K005041480030-IL
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MISCELLANEOUS

L	3652	CHIP BEAD	D340160811210-IL
J	3651	CN,WIRE 2MM	L002401050070-IL
JA	3651	TER,RCA 3PIN	G60603W0192GD-IL

M FRONT ASSY **SEMICONDUCTORS**

⚠	IC	103	J126111700041-IL
	IC	3001	J020561500010-IL
	IC	3004	8952921100030-IL
	IC	3005	J126484200010-IL
	Q	3004	J544513200010-IL

Q	3005-3008	J522102411210-IL
Q	3009	J522104311210-IL
Q	3011	J5001266G0050-IL
D	3002,3003,3027,3033	K005041480030-IL
D	3006	K125751400010-IL

D	3007,3009,3011,3013	K500052009011-IL
D	3021	K005021700200-IL
D	3034	K005041480030-IL

Mark	No.	Description	Part No.
	D	9301	K06006R844520-IL

MISCELLANEOUS

L	3002	COIL,BEAD	D340160833000-IL
L	3007	COIL,FILTER-INDUCTOR	D330100700520-IL
L	3008	COIL	D330101001020-IL
H	9999	FL HOLDER	4320211016000-IL
V	3001	DISPLAY,FLT	K530166400010-IL

S	3001-3015	SWITCH	G180501000010-IL
S	3024	SW,ENCODER	G121123040011-IL
X	3001	RESONATOR,CERAMIC (5 MHz)	E830500000020-IL
X	3002	CRYSTAL (15 MHz)	E80015R000020-IL
CN	3001	CN.FPC 1.0MM	L130100113910-IL

CN	3004	CONNECTOR (3P)	L102526803010-IL
CN	3501	CN,WIRE 2MMC	L002700040120-IL
U	3001	MODULE,REMOCON	E940349003810-IL

RESISTORS

R	3021,3022	C060R47065050-IL
R	3025,3026	C060001065060-IL

CAPACITORS

C	3007,3061,3096	D040221081060-IL
C	3042,3101	D040102081070-IL

POWER ASSY**MISCELLANEOUS**

S	3401	SWITCH	G180501000010-IL
S	3501	SW,ENCODER	G121123050021-IL

IR ASSY**SEMICONDUCTORS**

Q	501	J520015301210-IL
Q	502	J520103S00210-IL
Q	503,504	J522102411210-IL
Q	526,527,529-533	J522305200050-IL
D	501-504,516,517	K005041480030-IL

D	513	K000013300520-IL
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MISCELLANEOUS

L	501-503	FERRITE BEAD	D340160831210-IL
L	504	FERRITE BEAD	D340160861020-IL
L	505	FERRITE BEAD	D340160862410-IL
JA	504-507	JACK,D3.5	G401PJ3080100-IL
CN	501	CN.WAFER 2.0MM	L101200100520-IL

CN	502	CN.FPC 1.0MM	L130100150750-IL
CN	9501	CN,WAFER	L109012520910-IL
CN	9503,9510	CN,WAFER	L109012521710-IL
CN	9511	CN,WAFER	L109012511710-IL
CN	9512	CN,WAFER	L109012511910-IL

CN	9513	CN,WAFER	L109012512510-IL
	500	BRACKET	4010210196000-IL
	501,503	BRACKET	4010210196100-IL

SMPS ASSY**SEMICONDUCTORS**

⚠	IC	100	K614123000010-IL
⚠	IC	102	G200258000010-IL
⚠	IC	116	J126243118010-IL

Mark	No.	Description	Part No.
	Q	100-102	J5023199Y0010-IL
⚠	D	100-102,104	K040000100010-IL

⚠	D	103	K120256000010-IL
	D	105,106,109,110	K000400700010-IL
	D	108	K050000015000-IL
	D	112	K000013300520-IL
	D	9100,9102,9104,9106	K06022R044520-IL

	D	9101,9103,9105,9108	K06039R044520-IL
	D	9107,9110,9112,9117	K06022R044520-IL
	D	9109,9115	K06039R044520-IL
	D	9114	K06006R244520-IL
	D	9118	K06022R044520-IL

MISCELLANEOUS

⚠	L	100	COIL,LINE FILTER	D320201405510-IL
	L	102	COIL,CHOKE	D300780001010-IL
⚠	RY	101	RELAY	G680050102020-IL
⚠	T	100	TRANS,SWITCHING	E060283405510-IL
⚠	CN	100	CONNECTOR	L108202000220-IL

	CN	101	CN,WIRE	L000211072250-IL
⚠	CN	102	CN.WAFER 7.92MM	L108011430210-IL
			100,102 BRACKET	4010210196100-IL
			101,103 BRACKET	4010210196000-IL
⚠	FU	100	FUSE GLASS TUBE 20MM	N751503151160-IL

⚠	FU	101	FUSE GLASS TUBE 20MM	N751508001160-IL
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RESISTORS

⚠	R	100	C060015564520-IL
	R	101,104	C060022563520-IL
	R	105,113,115	C060010563520-IL
	R	106	C00001006P520-IL
	R	107	C00005606P520-IL

	R	111	C00003326P520-IL
	R	112	C00005626P520-IL
	R	119	C0006R806P520-IL
	R	122	C00004746P520-IL

CAPACITORS

⚠	C	100	D02122407H010-IL
	C	102	D04010108K000-IL
	C	103	D00810207Q010-IL
⚠	C	104,105	D00847127H010-IL
	C	106-108	D041562081001-IL

⚠	C	115,128	D00815248H010-IL
⚠	C	117	D008103589010-IL
	C	129	D040471081070-IL
	C	131,133	D008103589010-IL

CCG ASSY

There is no service parts.

BR ASSY**SEMICONDUCTORS**

IC	2704,2742,2762,2782	J121456000080-IL
IC	2802	J121456000080-IL

MISCELLANEOUS

CN	16	CN.WAFER	L109012510910-IL
CN	2105	CN.WAFER 2.0MM	L101200100420-IL
CN	2107,2108,2110,2202	CN,WAFER	L109012512310-IL
CN	2109	CN.WAFER 2.0MM	L101200100520-IL

5	6	7	8
Mark	No. Description	Part No.	Mark No. Description Part No.
S	D-MAIN ASSY		
	SEMICONDUCTORS		
	IC 104	NJM12904V	D 1802 DAP202U
	IC 401	8952921100011-IL	D 1803,1804,9504 1SS355
	IC 403,404	H5DU2562GTR-J3C	
	IC 602	341S2164	
	IC 603	PE7008A	
	IC 604	PDJ019A	
	IC 605,613,1804	TC74VHC08FK	
	IC 608	TC74VHCT541AFK	
	IC 610,1806	TC74VHC126FK	
	IC 611,1809	TC74VHCT125AFK	
	IC 612,1502	TC74VHCT08AFKS1	
	IC 901	TC74VHC153FK	
	IC 902,906	S-24CS02AFT	
	IC 904,908	TC7MB3257FK	
	IC 905	CXB1444R	
	IC 907	TC74VHC541FK	
	IC 1201	ADV7181CBSTZ	
	IC 1202	ABT1015	
	IC 1203-1207	TC74VCX541FK	
	IC 1208	TC7SA08FU	
	IC 1209,1211-1213	TC74LCX541FK	
	IC 1210	TC7SZ125FU	
	IC 1604,1805,1814,1815	TC74VHC157FK	
	IC 1605	AAT4614AIGU-2	
	IC 1801	AK4588VQ	
	IC 1802	AK4388ET	
	IC 1803	IDT6V60008DCG	
	IC 1807	J040740400270-IL	
	IC 1808	TC7WHU04FU	
	IC 1817	TC74VHC125FK	
	IC 9001	IS42S16400F-6TL	
	IC 9004	8952921100021-IL	
	IC 9008	TC7SH126FU	
	IC 9201	MD56V82160-6TAZ	
	IC 9202	BD2226G	
	IC 9203	LAN8700C-AEZG	
	IC 9205	8952921100040-IL	
	IC 9502,9503,9514	S-1172B12-U5	
	IC 9504,9511,9515	S-1170B50UC-OUJ	
	IC 9507	MB39C011A	
	IC 9508	S-1170B25UC-OTK	
	IC 9509	MM1701WH	
	Q 601	UMD2N	
	Q 604,1502-1505	J520012400010-IL	
	Q 901,902,904,1501	J522011400020-IL	
	Q 903	UM6K1N	
	Q 1202-1208,1506	2SA1576A	
	Q 1210-1212	2SC4081	
	Q 9001,9004,9504,9506	J522011400020-IL	
	Q 9501	J543801100010-IL	
	Q 9502	J543801200010-IL	
	Q 9503,9505	J543040020010-IL	
	D 601	RB501V-40	
	D 901-903,1801	DAN202U	
	D 1601	K06605R14P400-IL	
		MISCELLANEOUS	
		L 103 COIL,INDUCTOR	D310153160210-IL
		L 105,602-607 COIL,BEAD	D340100561210-IL
		L 901,905-907,1283 CHIP BEAD	D340212561010-IL
		L 902-904,913 COIL,BEAD	D340100561210-IL
		L 1202-1204 COIL,INDUCTOR	D310820160210-IL
		L 1206-1208 COIL,INDUCTOR	D310122160210-IL
		L 1209 COIL,CHIP	D311201201030-IL
		L 1210-1212 COIL,CHIP	D311201204720-IL
		L 1213-1215,1217,1219 COIL,BEAD	D340100561210-IL
		L 1220,1222,1225-1227 COIL,BEAD	D340100561210-IL
		L 1282,1321-1324,1502 COIL,BEAD	D340100561210-IL
		L 1284,1607,9002,9003 CHIP BEAD	D340212561010-IL
		L 1501,9215,9216 COIL,CHIP	D311121011210-IL
		L 1601,1604,1605 COIL,BEAD	D340100561210-IL
		L 1609-1612 COIL,CHOKE	D300121069000-IL
		L 1617,1618 FERRITE BEAD	D340160862410-IL
		L 1802-1804,1806-1813 COIL,BEAD	D340100561210-IL
		L 1805,1819,1820 COIL,BEAD	D340160851020-IL
		L 1815,1817,1818,1823 COIL,BEAD	D340100561210-IL
		L 9004,9007,9009,9010 COIL,BEAD	D340100561210-IL
		L 9201,9202,9204 COIL,BEAD	D340100561210-IL
		L 9205,9206,9502,9507 CHIP BEAD	D340212561010-IL
		L 9207-9210,9212-9214 COIL,BEAD	D340100561210-IL
		L 9506 COIL,INDUCTOR	D310104500600-IL
		L 9509 COIL,INDUCTOR	D310104500470-IL
		L 9510 CHIP BEAD	D340212561010-IL
		L 9512-9514,9517 COIL,BEAD	D340100561210-IL
		F 102,103,107,108 FILTER,EMI	E470160811050-IL
		JA 901-904,906,1601 CN.WAFER	L109100190160-IL
		JA 1801 PIN JACK(2P)	G601206A0700Y-IL
		JA 1803,1804 MODULE	E100216500010-IL
		JA 9201 CN,PLUG CONTACT	G480040400030-IL
		JA 9202 JACK,MODULAR	G4060RJ450120-IL
		X 602,901 CRYSTAL CHIP (27 MHz)	E80527R000050-IL
		X 1201 CRYSTAL CHIP (28.636360 MHz)	E80528R636360-IL
		X 1801 OSCILATOR,CERA CHIP (24.576 MHz)	E85524R576050-IL
		X 1802 OSCILATOR,CERA CHIP (22.5792 MHz)	E85522R579210-IL
		X 9001 CRYSTAL CHIP (20 MHz)	E80520R000050-IL
		CN 601 CN.FPC 1.0MM	L130100113910-IL
		CN 602 CN,WAFER	L109012521710-IL
		CN 603 CN,WAFER	L109012521910-IL
		CN 1203 CN,WAFER	L109012522510-IL
		CN 1501 CN.WAFER 2.0MM	L101200220610-IL
		CN 1502,1801 CN,WAFER	L109012522310-IL
		CN 9501 CONNECTOR(7P)	L102526700700-IL
		1901 BRACKET	4010210196100-IL
		P 601 SW,POLY	G300003500010-IL
		RESISTORS	
		R 168,789	D340100561210-IL
		CAPACITORS	
		C 451,452	K067012020020-IL
		C 1509	D040222081000-IL

Mark

No.

Description

Part No.

A	T F-USB ASSY		
	SEMICONDUCTORS		
	⚠	IC 805	J046255700010-IL
	⚠	IC 806	J048107300010-IL
		Q 7504	J5223875Y0210-IL
		D 101	K06605R64P400-IL

■	MISCELLANEOUS		
	L 11	COIL,CHIP	D311120601030-IL
	L 3605,3606	CHIP BEAD	D340212561010-IL
	JA 3601	CN,PLUG CONTACT	G480040040040-IL
	CN3601	CN,WIRE 2MM	L002341060060-IL
	CN3602	CN,WIRE	L000331042250-IL

B	CAPACITORS		
	C 3602		D050221081200-IL

■	U BT ASSY		
	SEMICONDUCTORS		
	⚠	IC 600	BD2224G

■	MISCELLANEOUS		
	CN 601	CONNECTOR	CKS5712
	CN 603	CN.WAFER 2.0MM	L101100031110-IL
	601	BRACKET	4010210196100-IL

C

D

E

F