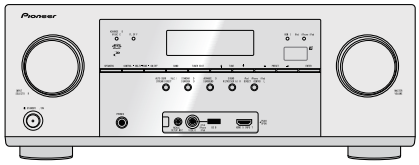
Pioneer

Service Manual



VSX-1127-K

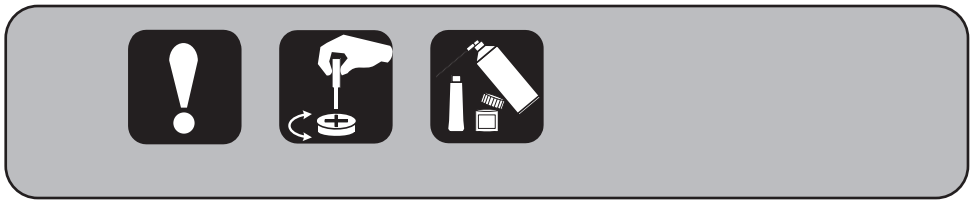
ORDER NO.
RRV4307

AV Receiver

VSX-1127-K
VSX-1122-K
VSX-60
VSX-1027-K

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

Model	Type	Power Requirement	Remarks
VSX-1127-K	CUXE	AC 120 V	
VSX-1122-K	CUXESM	AC 120 V	
VSX-60	UXECB	AC 120 V	
VSX-1027-K	CUXE	AC 120 V	



PIONEER CORPORATION 1-1, Shin-ogura, Saiwai-ku, Kawasaki-shi, Kanagawa 212-0031, Japan
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ⓒPIONEER CORPORATION 2012

K-MZV MAR. 2012 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

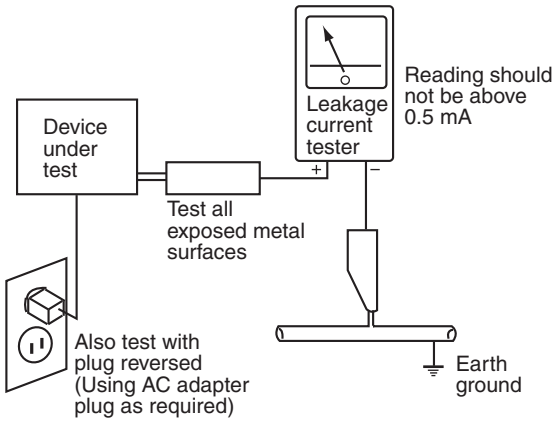
(FOR USA MODEL ONLY)

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.

CONTENTS

SAFETY INFORMATION 2
1. SERVICE PRECAUTIONS 5
1.1 NOTES ON SOLDERING 5
1.2 NOTES ON REPLACING PARTS 5
1.3 SERVICE NOTICE 5
2. SPECIFICATIONS 6
3. BASIC ITEMS FOR SERVICE 9
3.1 CHECK POINTS AFTER SERVICING 9
3.2 JIGS LIST 9
3.3 PCB LOCATIONS 10
4. BLOCK DIAGRAM 12
4.1 OVERALL WIRING DIAGRAM 12
4.2 AUDIO BLOCK DIAGRAM 14
4.3 D-AUDIO BLOCK DIAGRAM 16
4.4 D-VIDEO BLOCK DIAGRAM 18
4.5 VIDEO BLOCK DIAGRAM 20
4.6 POWER SUPPLY BLOCK DIAGRAM 22
5. DIAGNOSIS 24
5.1 TROUBLESHOOTING 24
5.2 ERROR INDICATIONS 32
5.3 DETECTION CIRCUIT 33
5.4 IC INFORMATION 35
6. SERVICE MODE 38
6.1 TEST MODE 38
6.2 DEFAULT SETTINGS 40
7. DISASSEMBLY 41
8. EACH SETTING AND ADJUSTMENT 48
8.1 ADJUSTMENT REQUIRED WHEN THE UNIT IS REPAIRED OR REPLACED 48
8.2 USB BACKUP 49
8.3 UPDATING OF THE FIRMWARE 51
8.4 IDLE CURRENT ADJUSTMENT 54
9. EXPLODED VIEWS AND PARTS LIST 56
9.1 PACKING SECTION 56
9.2 EXTERIOR SECION 58
10. SCHEMATIC DIAGRAM 62
10.1 AUDIO ASSY 62
10.2 AMP7 ASSY (1/2) 64
10.3 AMP7 ASSY (2/2) 66
10.4 MAIN ASSY 68
10.5 D-MAIN ASSY (1/10) 70
10.6 D-MAIN ASSY (2/10) 72
10.7 D-MAIN ASSY (3/10) 74
10.8 D-MAIN ASSY (4/10) 76
10.9 D-MAIN ASSY (5/10) 78
10.10 D-MAIN ASSY (6/10) 80
10.11 D-MAIN ASSY (7/10) 82
10.12 D-MAIN ASSY (8/10) 84
10.13 D-MAIN ASSY (9/10) 86
10.14 D-MAIN ASSY (10/10) 88
10.15 IR ASSY 90
10.16 VIDEO ASSY 92
10.17 BRG ASSY 94
10.18 FRONT and POWER ASSYS 96
10.19 MIC, FVIDEO and HP ASSYS 98
10.20 G-L, G-R, WG-A, WG-B, CCG and BTCNT ASSYS 99
10.21 FHDMI and F-USB ASSYS 100
10.22 SMPS ASSY 102
10.23 BT ASSY 104

11. PCB CONNECTION DIAGRAM 106
11.1 AUDIO ASSY 106
11.2 AMP7 ASSY 108
11.3 MAIN ASSY 110
11.4 D-MAIN ASSY 114
11.5 IR ASSY 118
11.6 VIDEO ASSY 120
11.7 BRG ASSY 122
11.8 FRONT, POWER, MIC, FVIDEO and HP ASSYS 124
11.9 G-L, G-R, WG-A and WG-B ASSYS 128
11.10 CCG and BTCNT ASSYS 129
11.11 FHDMI and F-USB ASSYS 130
11.12 BT ASSY 131
11.13 SMPS ASSY 132
12. PCB PARTS LIST 134

1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

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

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

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

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

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

1.2 NOTES ON REPLACING PARTS

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

Assy Name	Parts that is Difficult to Replace			
	Ref No.	Function	Part No.	Remarks
D-MAIN Assy	JA1601, JA9601-JA9607	HDMI Connector	————	JACK with Cu-through-hole & SMD type
	JA9201	USB Connector	————	JACK with Cu-through-hole & 6 pin
	JA9202	LAN Connector	————	JACK with Cu-through-hole & 10 pin
	IC9520	D-MAIN 3.3V Power Supply IC	————	IC with heat-pad
	IC9521	D-MAIN 3.3V Power Supply IC	————	IC with heat-pad
	IC9522	D-MAIN 1.8V Power Supply IC	————	IC with heat-pad
	IC9002	DSP IC	————	IC with heat-pad
	IC1204	VIDEO FORMAT CONVERTER	————	IC BGA type
	IC1212	DDR IC	————	IC BGA type
	IC9203	LAN PHY IC	————	IC with heat-pad
	IC9204	NETWORK MEDIA PROCESSOR	————	IC BGA type
	IC1602	HDMI Tx	————	IC with heat-pad
	IC903	HDMI Rx	————	IC with heat-pad
	IC9602	HDMI SW IC	————	IC with heat-pad
F-USB Assy	IC805	USB 5V SW IC	————	IC with heat-pad
	IC1307	USB 5V SW Power Supply IC	————	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

■ VSX-1127-K, VSX-1027-K

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, 6 Ω, 1 %, 1 ch driven) .....165 W
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
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 terminal .....USB2.0 High Speed (Type A) 5 V, 2.1 A
iPod terminal.....USB, and Video (Composite)
ADAPTER PORT terminal.....5 V, 100 mA
WIRELESS LAN ADAPTER terminal .....5 V, 600 mA

Integrated Control Section

Control (IR) terminal .....ø 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)
VSX-1127 .....9.9 kg (21.8 lb)
VSX-1027 .....9.8 kg (21.6 lb)

Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.
- This product includes FontAvenue® fonts licensed by NEC Corporation. FontAvenue is a registered trademark of NEC Corporation.

■ VSX-60

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
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 terminal .....USB2.0 High Speed (Type A) 5 V, 2.1 A
iPod terminal.....USB, and Video (Composite)
ADAPTER PORT terminal.....5 V, 100 mA
WIRELESS LAN ADAPTER terminal .....5 V, 600 mA

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

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) .....9.9 kg (22 lb)

Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.
- This product includes FontAvenue® fonts licensed by NEC Corporation. FontAvenue is a registered trademark of NEC Corporation.

VSX-1122-K

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, 6 Ω, 1 %, 1 ch driven) .....165 W
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
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 terminal .....USB2.0 High Speed (Type A) 5 V, 2.1 A
iPod terminal.....USB, and Video (Composite)
ADAPTER PORT terminal.....5 V, 100 mA
WIRELESS LAN ADAPTER terminal .....5 V, 600 mA

Integrated Control Section

Control (IR) terminal .....ø 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) .....9.9 kg (22 lb)

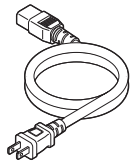
Note

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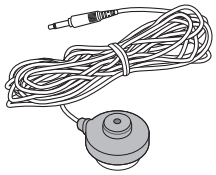
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Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS-HD, the Symbol, & DTS-HD and the Symbol together are registered trademarks & DTS-HD Master Audio is a trademark of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

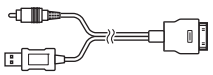
Accessories



Power cord
(L068125130010-IL)
(VSX-60 only)



Microphone
(for Auto MCACC setup)
(APM7010)



iPod cable
(L308102013030-IL)



AM loop antenna
(E601019000010-IL)



FM wire antenna
(E605010140010-IL)



Remote control (AXD7664)
(8300766400010-IL)



Dry cell batteries
(AAA size IEC R03) x2

Warranty card

Quick start guide
(VSX-1127-K, VSX-1027-K: 5707000006590-IL)
(VSX-1122-K: 5707000006580-IL)
(VSX-60: 5707000006600-IL)

Safety Brochure

Operating instructions (CD-ROM)
(VSX-1127-K, VSX-1027-K: 6517000000550-IL)
(VSX-1122-K: 6517000000540-IL)
(VSX-60: 6517000000560-IL)

3. BASIC ITEMS FOR SERVICE
3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing

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

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

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

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

3.2 JIGS LIST

■ Jigs List

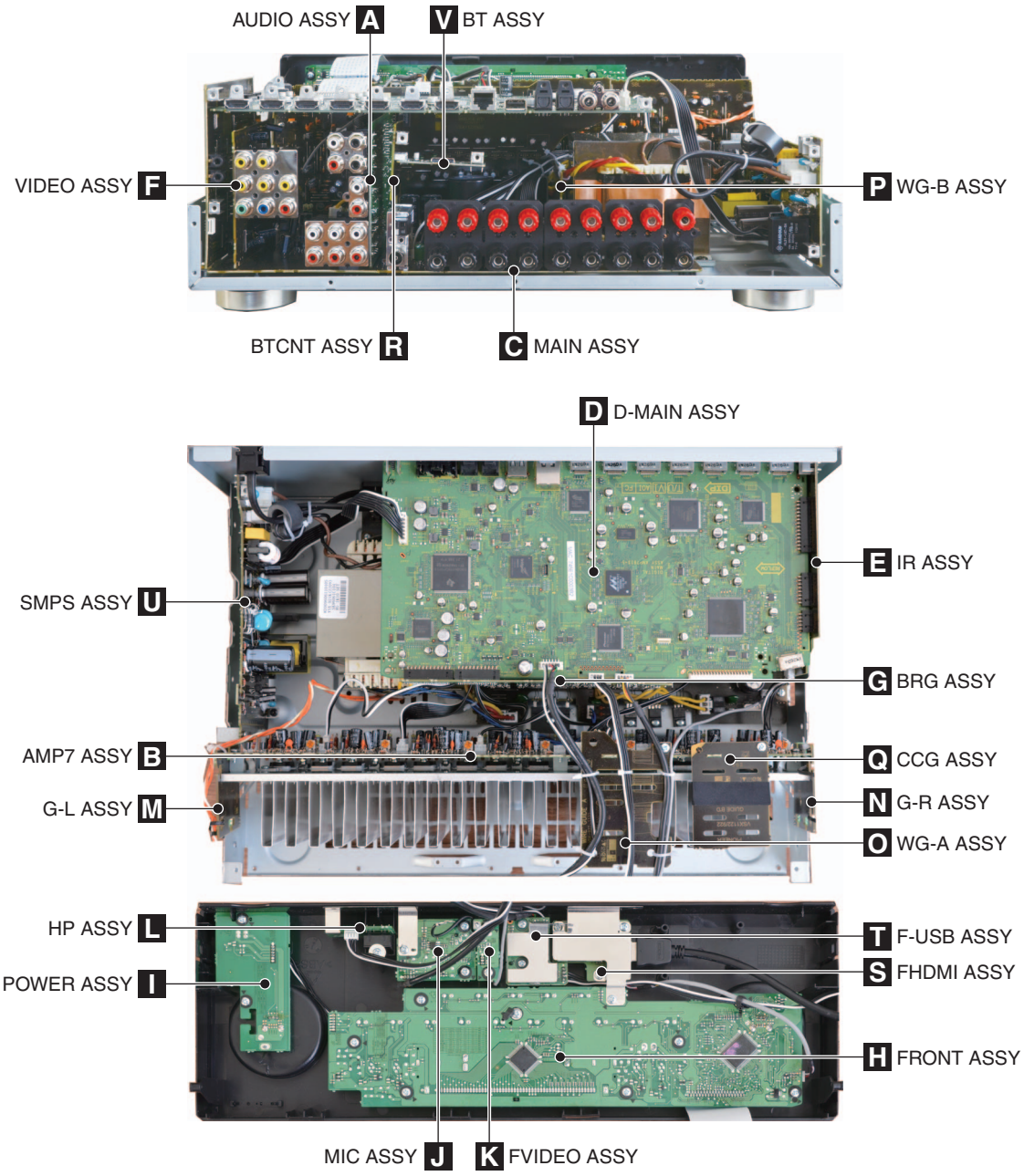
Jig Name	Part No.	Remarks
13P extension jig cable	GGD1740	Diagnosis (AMP7 Assy ↔ AUDIO Assy)
3P extension jig cable	GGD1741	Diagnosis (AMP7 Assy ↔ MAIN Assy)
Board to board extension jig cable	GGD1736	Diagnosis (D-MAIN Assy ↔ BRG Assy)
Board to board extension jig cable	GGD1798	Diagnosis (D-MAIN Assy ↔ IR Assy)
Board to board extension jig cable	GGD1799	Diagnosis (D-MAIN Assy ↔ IR Assy)
Conversion jig	GGD1802	Diagnosis (D-MAIN Assy ↔ BRG Assy)
Conversion jig	GGD1803	Diagnosis (D-MAIN 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".

3.3 PCB LOCATIONS

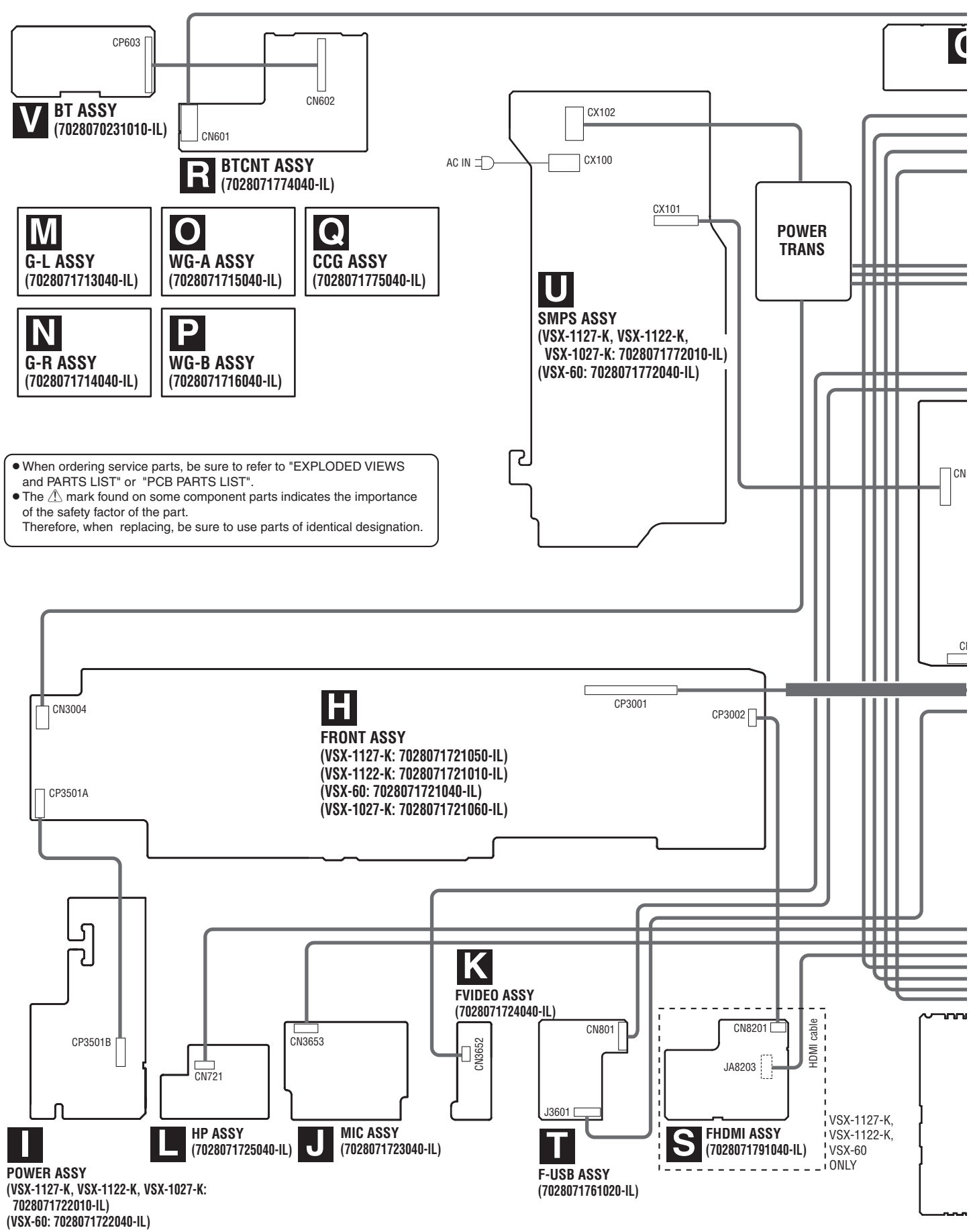


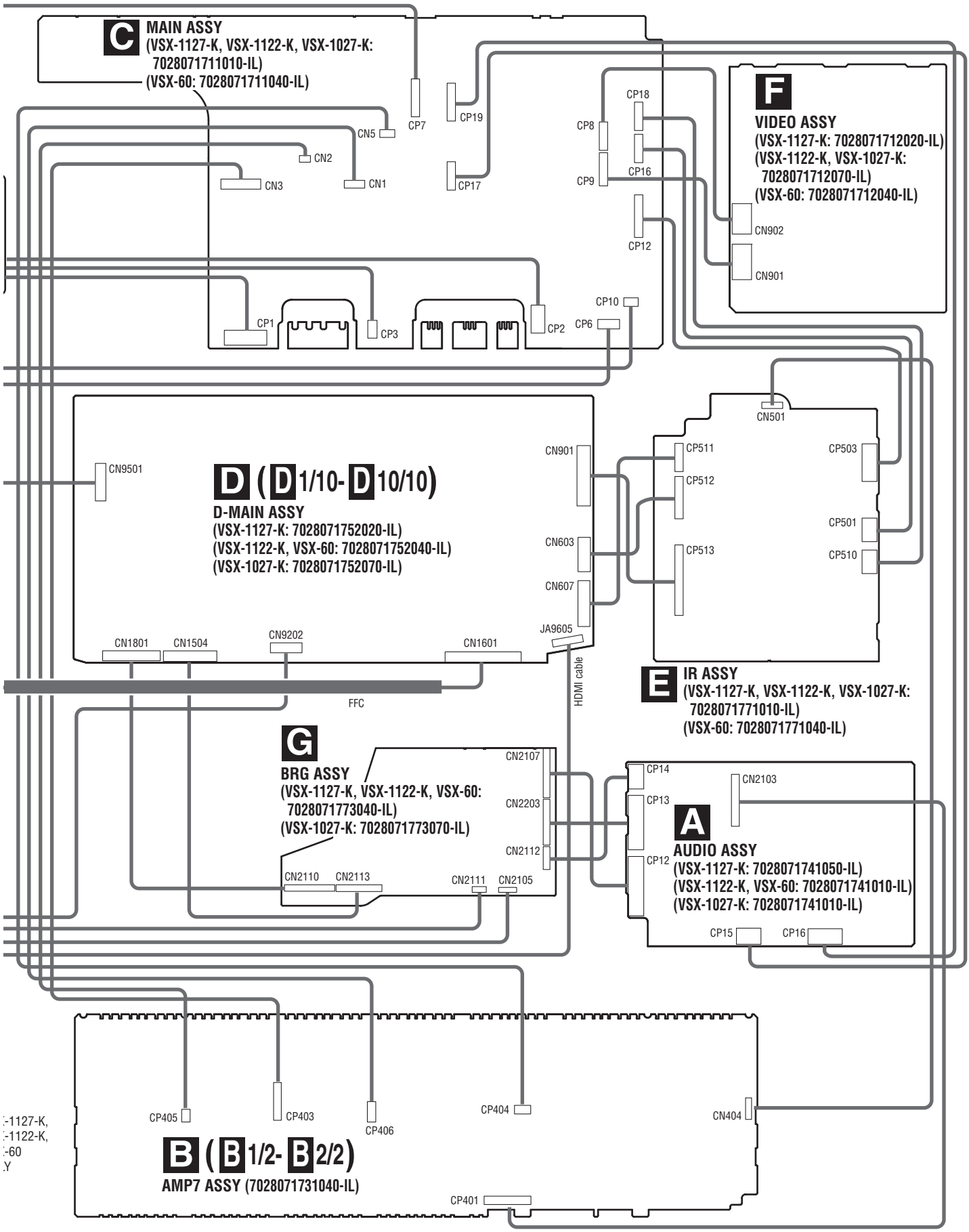
NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

LIST OF ASSEMBLIES

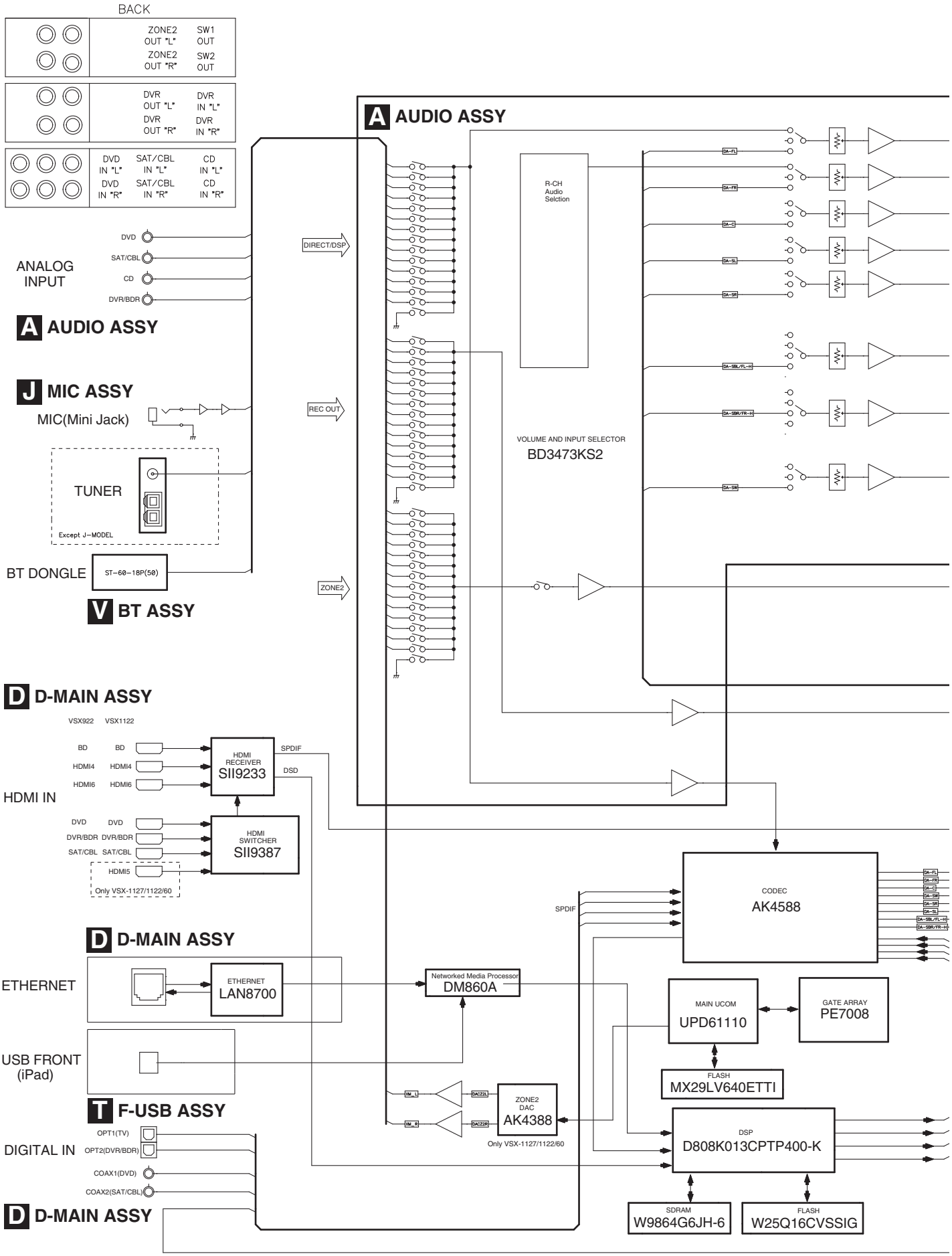
Mark	Symbol and Description	VSX-1127-K/CUXE	VSX-1122-K/CUXESM	VSX-60/UXECB	VSX-1027-K/CUXE
NSP	1..PCB TTL ASSY MAIN	7025HK1110020-IL	7025HK1110010-IL	7025HK1110030-IL	7025HK1109010-IL
	2..MAIN ASSY	7028071711010-IL	7028071711010-IL	7028071711040-IL	7028071711010-IL
	2..VIDEO ASSY	7028071712020-IL	7028071712070-IL	7028071712040-IL	7028071712070-IL
	2..G-L ASSY	7028071713040-IL	7028071713040-IL	7028071713040-IL	7028071713040-IL
	2..G-R ASSY	7028071714040-IL	7028071714040-IL	7028071714040-IL	7028071714040-IL
	2..WG-A ASSY	7028071715040-IL	7028071715040-IL	7028071715040-IL	7028071715040-IL
	2..WG-B ASSY	7028071716040-IL	7028071716040-IL	7028071716040-IL	7028071716040-IL
NSP	1..PCB TTL ASSY DMAIN	7025HK1110021-IL	7025HK1110011-IL	7025HK1110031-IL	7025HK1109011-IL
	2..D-MAIN ASSY	7028071752020-IL	7028071752040-IL	7028071752040-IL	7028071752070-IL
NSP	1..PCB TTL ASSY FRONT	7025HK1110022-IL	7025HK1110012-IL	7025HK1110032-IL	7025HK1109012-IL
	2..FRONT ASSY	7028071721050-IL	7028071721010-IL	7028071721040-IL	7028071721060-IL
	2..POWER ASSY	7028071722010-IL	7028071722010-IL	7028071722040-IL	7028071722010-IL
	2..MIC ASSY	7028071723040-IL	7028071723040-IL	7028071723040-IL	7028071723040-IL
	2..FVIDEO ASSY	7028071724040-IL	7028071724040-IL	7028071724040-IL	7028071724040-IL
	2..HP ASSY	7028071725040-IL	7028071725040-IL	7028071725040-IL	7028071725040-IL
NSP	1..PCB TTL ASSY AUDIO	7025HK1110023-IL	7025HK1110013-IL	7025HK1110033-IL	7025HK1109013-IL
	2..AUDIO ASSY	7028071741050-IL	7028071741010-IL	7028071741040-IL	7028071741010-IL
NSP	1..PCB TTL ASSY IR	7025HK1110024-IL	7025HK1110014-IL	7025HK1110034-IL	7025HK1109014-IL
	2..IR ASSY	7028071771010-IL	7028071771010-IL	7028071771040-IL	7028071771010-IL
	2..SMPS ASSY	7028071772010-IL	7028071772010-IL	7028071772040-IL	7028071772010-IL
	2..BRG ASSY	7028071773040-IL	7028071773040-IL	7028071773040-IL	7028071773070-IL
	2..BTCNT ASSY	7028071774040-IL	7028071774040-IL	7028071774040-IL	7028071774040-IL
	2..CCG ASSY	7028071775040-IL	7028071775040-IL	7028071775040-IL	7028071775040-IL
NSP	1..PCB TTL ASSY AMP7	7025HK1110025-IL	7025HK1110015-IL	7025HK1110035-IL	7025HK1109015-IL
	2..AMP7 ASSY	7028071731040-IL	7028071731040-IL	7028071731040-IL	7028071731040-IL
NSP	1..PCB TTL ASSY FHDMI	7025HK1110026-IL	7025HK1110016-IL	7025HK1110036-IL	Not used
	2..FHDMI ASSY	7028071791040-IL	7028071791040-IL	7028071791040-IL	Not used
NSP	1..PCB TTL ASSY F-USB	7025HK1110027-IL	7025HK1110017-IL	7025HK1110037-IL	7025HK1109017-IL
	2..F-USB ASSY	7028071761020-IL	7028071761020-IL	7028071761020-IL	7028071761020-IL
NSP	1..PCB TTL ASSY BT	7025HK1110028-IL	7025HK1110018-IL	7025HK1110038-IL	7025HK1109018-IL
	2..BT ASSY	7028070231010-IL	7028070231010-IL	7028070231010-IL	7028070231010-IL

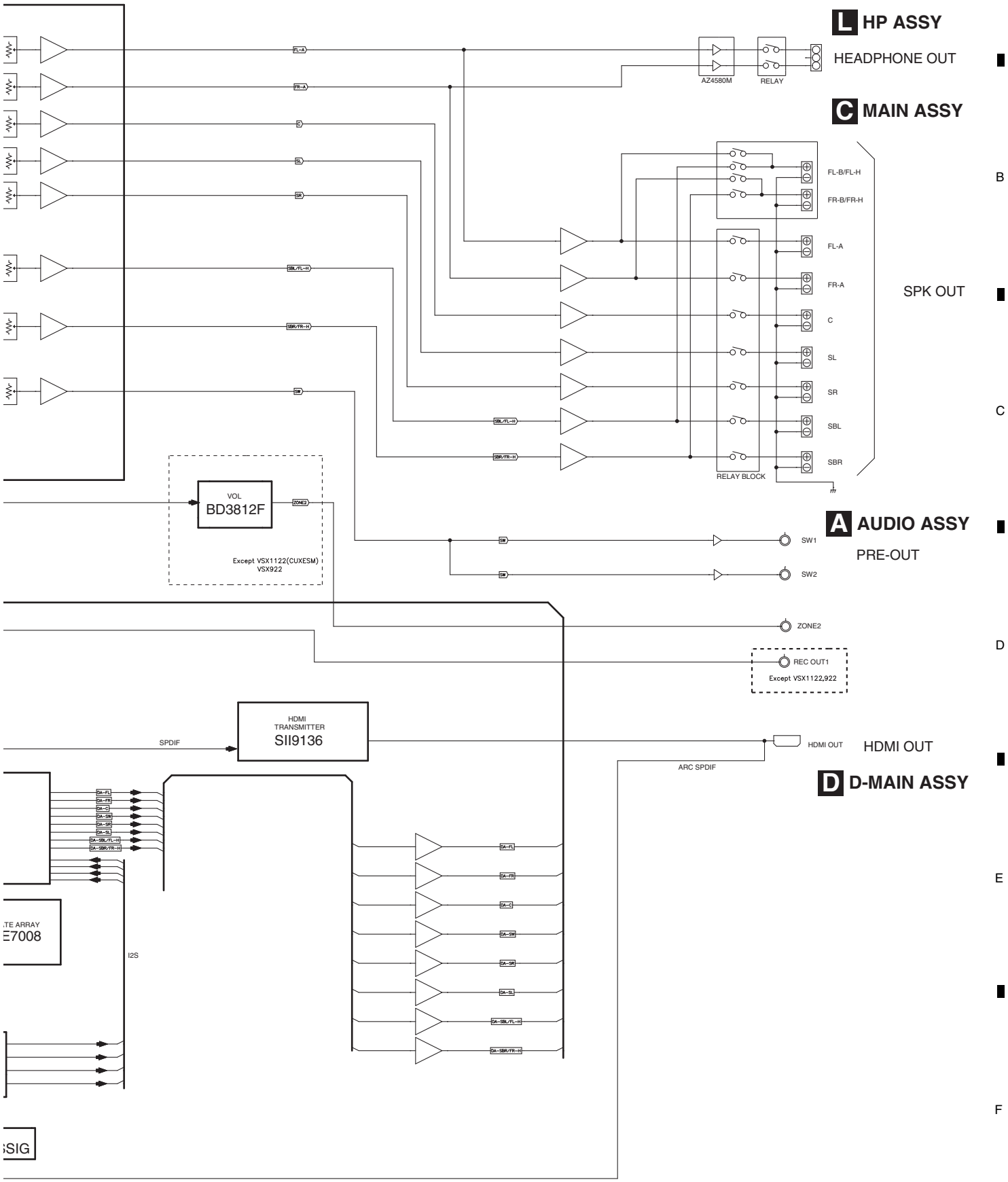
4. BLOCK DIAGRAM
4.1 OVERALL WIRING DIAGRAM




C MAIN ASSY
(VSX-1127-K, VSX-1122-K, VSX-1027-K:
7028071711010-IL)
(VSX-60: 7028071711040-IL)
CN5
CN2
CN3
CN1
CP7
CP19
CP17
CP8
CP18
CP9
CP16
CP12
F
VIDEO ASSY
(VSX-1127-K: 7028071712020-IL)
(VSX-1122-K, VSX-1027-K:
7028071712070-IL)
(VSX-60: 7028071712040-IL)
CN902
CN901
CP1
CP3
CP2
CP10
CP6
CN501
CN9501
D (D1/10-D10/10)
D-MAIN ASSY
(VSX-1127-K: 7028071752020-IL)
(VSX-1122-K, VSX-60: 7028071752040-IL)
(VSX-1027-K: 7028071752070-IL)
CN901
CN603
CN607
CP511
CP512
CP513
CP503
CP501
CP510
CN1801
CN1504
CN9202
CN1601
JA9605
HDMI cable
FFC
E IR ASSY
(VSX-1127-K, VSX-1122-K, VSX-1027-K:
7028071771010-IL)
(VSX-60: 7028071771040-IL)
G
BRG ASSY
(VSX-1127-K, VSX-1122-K, VSX-60:
7028071773040-IL)
(VSX-1027-K: 7028071773070-IL)
CN2107
CN2203
CN2112
CN2110
CN2113
CN2111
CN2105
CP14
CP13
CP12
CN2103
A
AUDIO ASSY
(VSX-1127-K: 7028071741050-IL)
(VSX-1122-K, VSX-60: 7028071741010-IL)
(VSX-1027-K: 7028071741010-IL)
CP15
CP16
CP405
CP403
CP406
CP404
CN404
B (B1/2-B2/2)
AMP7 ASSY (7028071731040-IL)
CP401

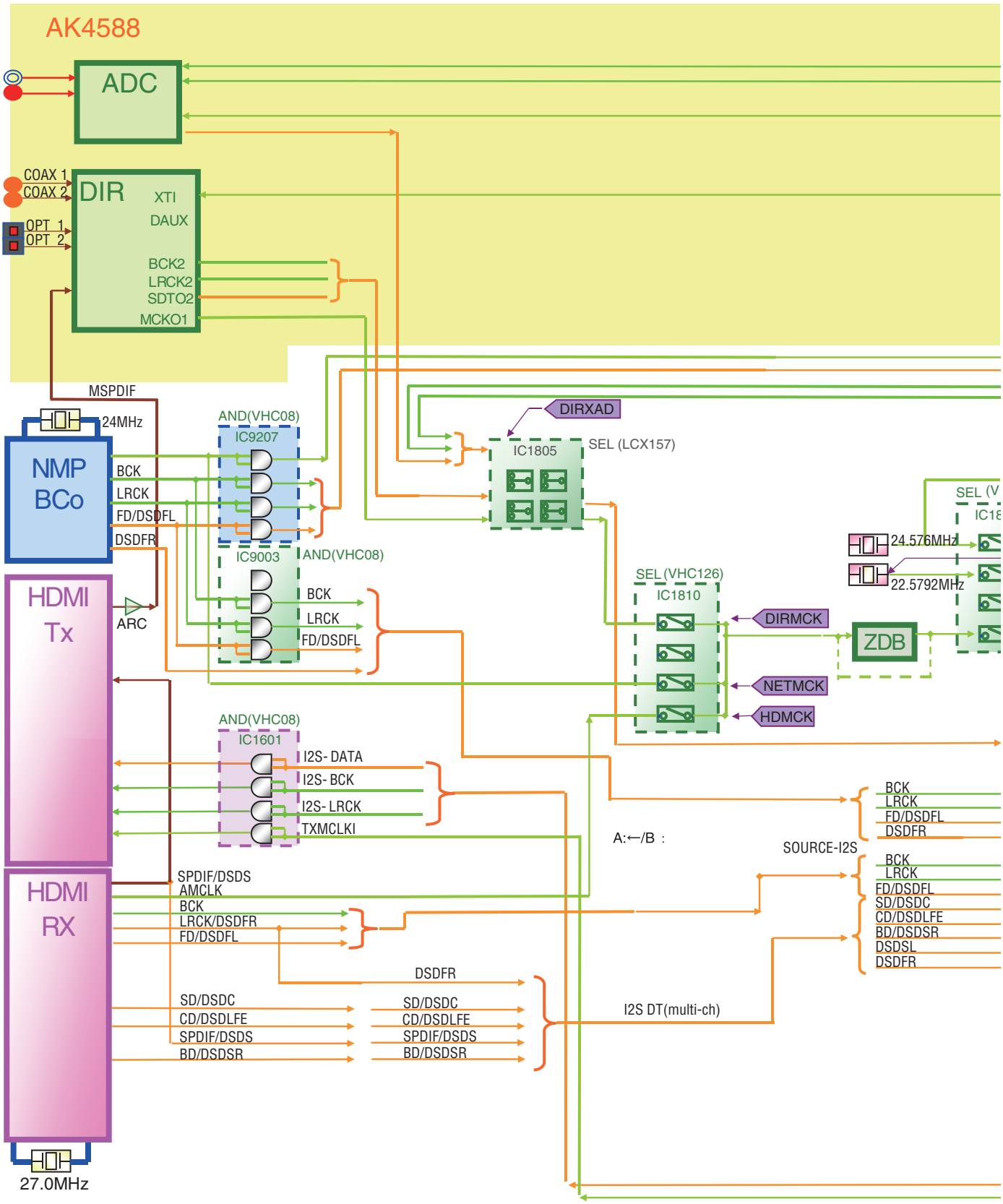
4.2 AUDIO BLOCK DIAGRAM

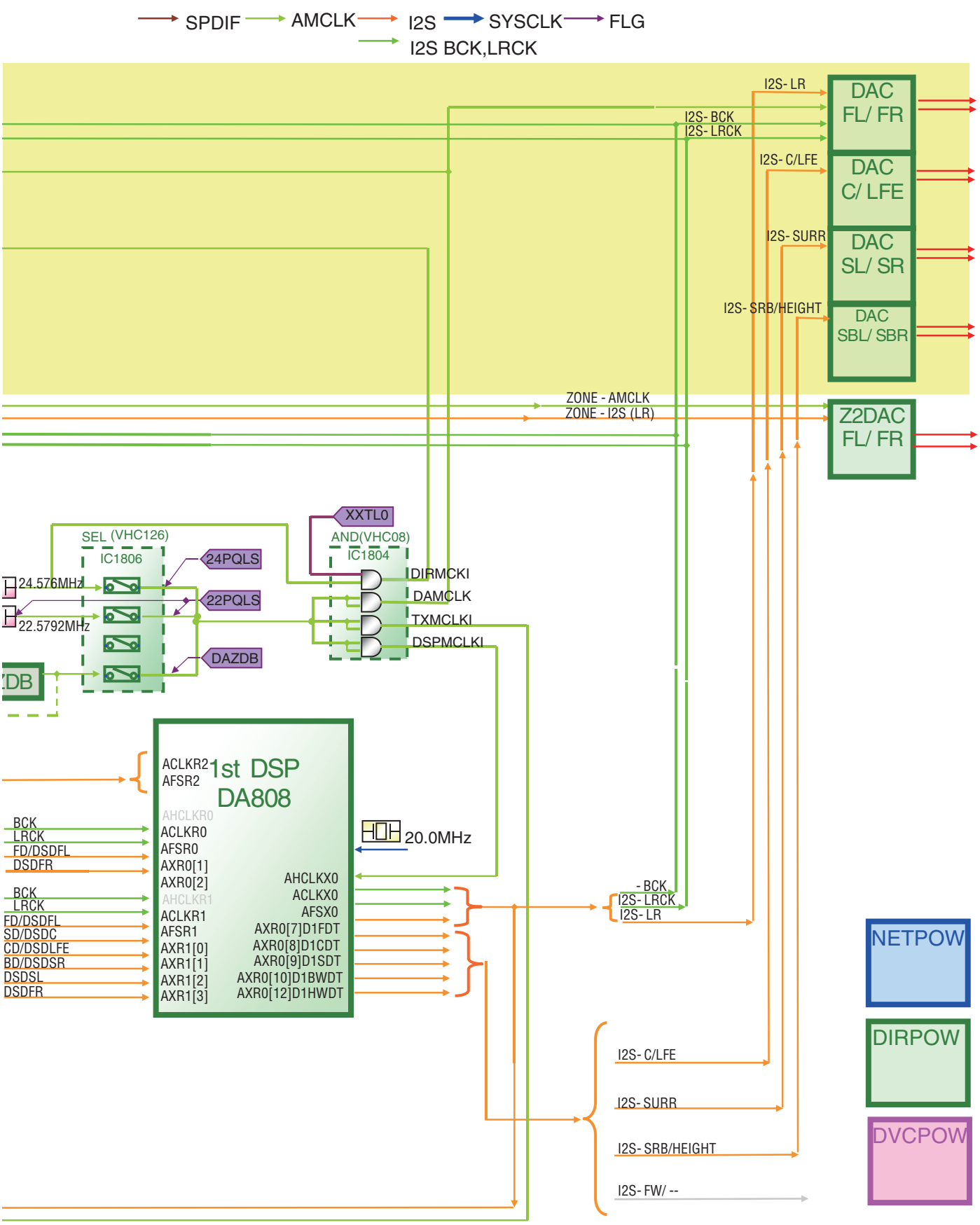



L HP ASSY
HEADPHONE OUT
AZ4580M
RELAY
C MAIN ASSY
FL-B/FL-H
FR-B/FR-H
FL-A
FR-A
C
SL
SR
SBL
SBR
RELAY BLOCK
SPK OUT
VOL
BD3812F
ZONE2
Except VSX1122(CUXESM)
VSX922
A AUDIO ASSY
PRE-OUT
SW1
SW2
ZONE2
REC OUT1
Except VSX1122,922
HDMI
TRANSMITTER
SII9136
SPDIF
HDMI OUT
HDMI OUT
ARC SPDIF
D D-MAIN ASSY
I2S

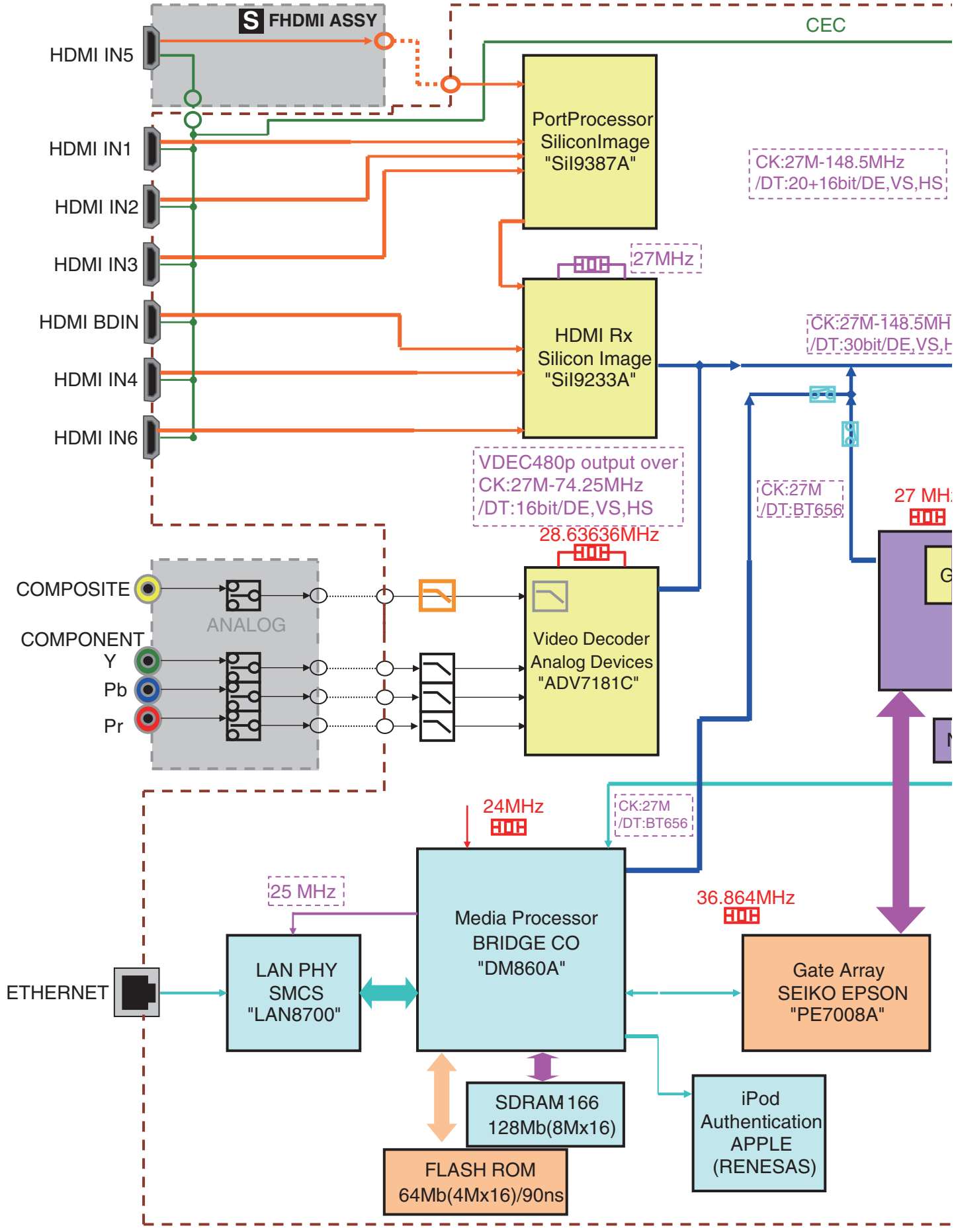
4.3 D-AUDIO BLOCK DIAGRAM

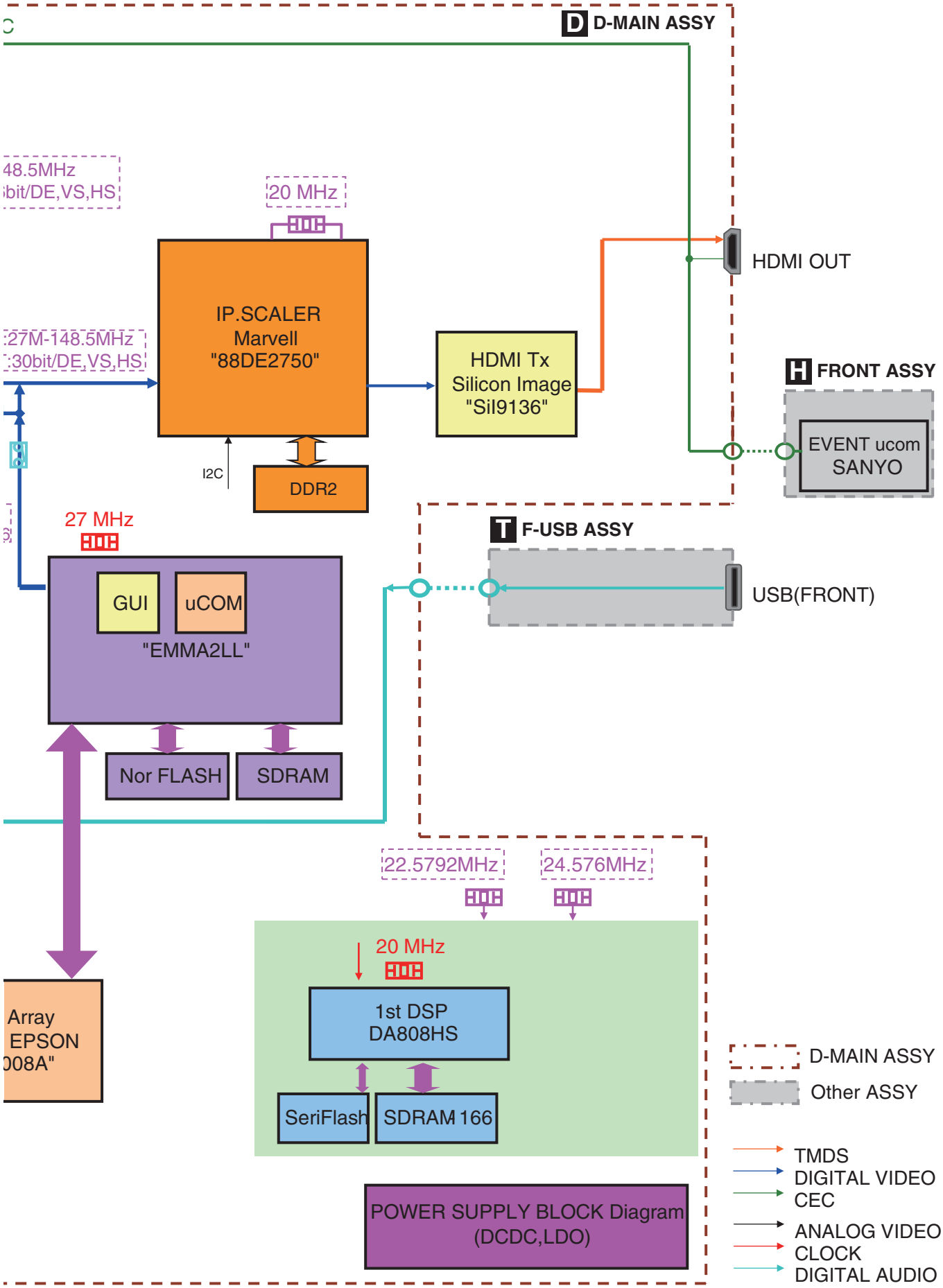
D D-MAIN ASSY



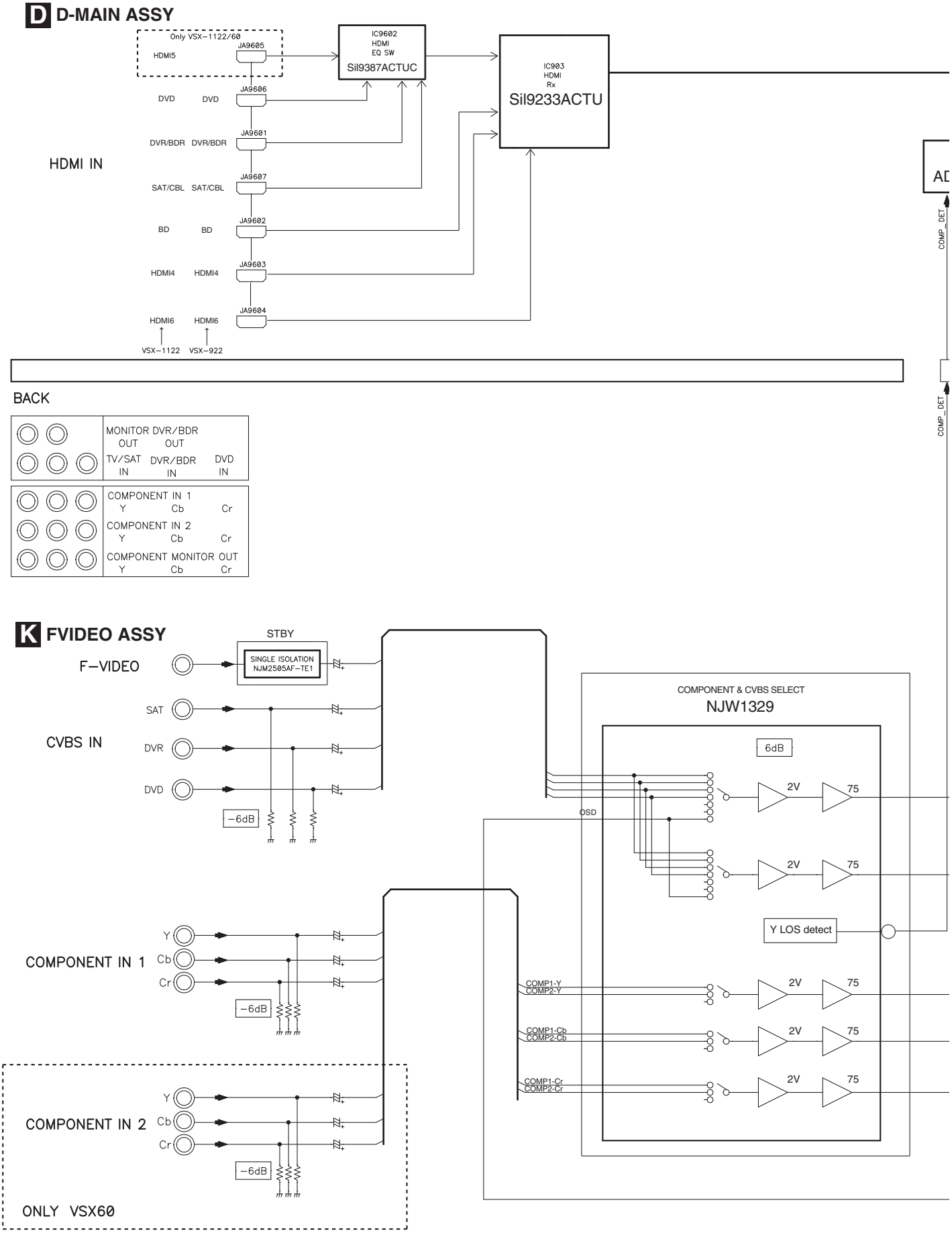

SPDIF
AMCLK
I2S
SYSCLK
FLG
I2S BCK,LRCK
I2S- LR
I2S- BCK
I2S- LRCK
I2S- C/LFE
I2S- SURR
I2S- SRB/HEIGHT
DAC FL/ FR
DAC C/ LFE
DAC SL/ SR
DAC SBL/ SBR
ZONE - AMCLK
ZONE - I2S (LR)
Z2DAC FL/ FR
XXTL0
SEL (VHC126)
IC1806
AND(VHC08)
IC1804
24PQLS
22PQLS
DAZDB
24.576MHz
22.5792MHz
DIRMCKI
DAMCLK
TXMCLKI
DSPMCLKI
1st DSP DA808
ACLKR2
AFSR2
AHCLKR0
ACLKR0
AFSR0
AXR0[1]
AXR0[2]
AHCLKR1
ACLKR1
AFSR1
AXR1[0]
AXR1[1]
AXR1[2]
AXR1[3]
AHCLKX0
ACLKX0
AFSX0
AXR0[7]D1FDT
AXR0[8]D1CDT
AXR0[9]D1SDT
AXR0[10]D1BWDT
AXR0[12]D1HWDT
20.0MHz
BCK
LRCK
FD/DSDFL
DSDFR
SD/DSDC
CD/DSDLFE
BD/DSDSR
DSDSL
- BCK
I2S- LRCK
I2S- LR
NETPOW
DIRPOW
DVCPOW
I2S- C/LFE
I2S- SURR
I2S- SRB/HEIGHT
I2S- FW/ --

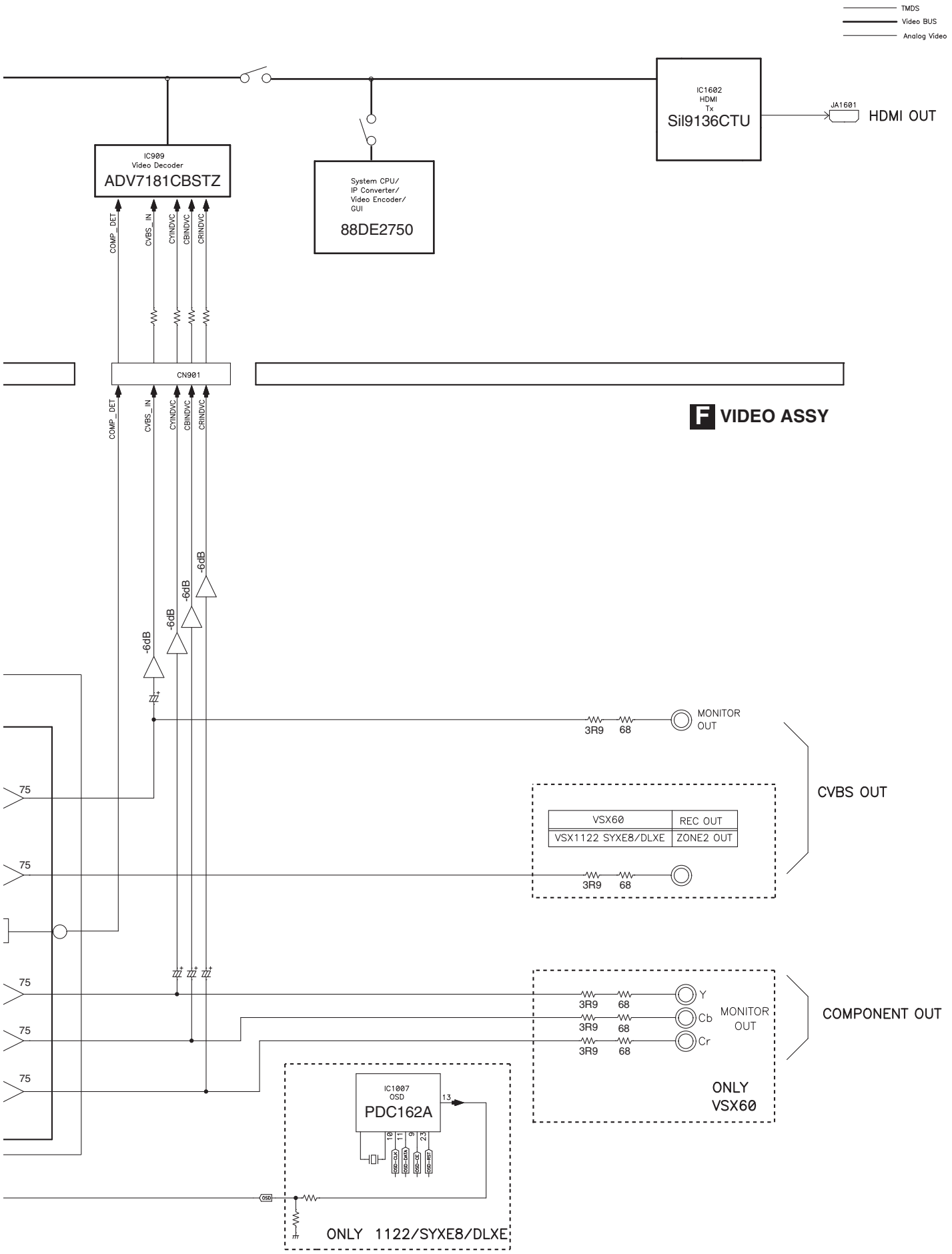
4.4 D-VIDEO BLOCK DIAGRAM



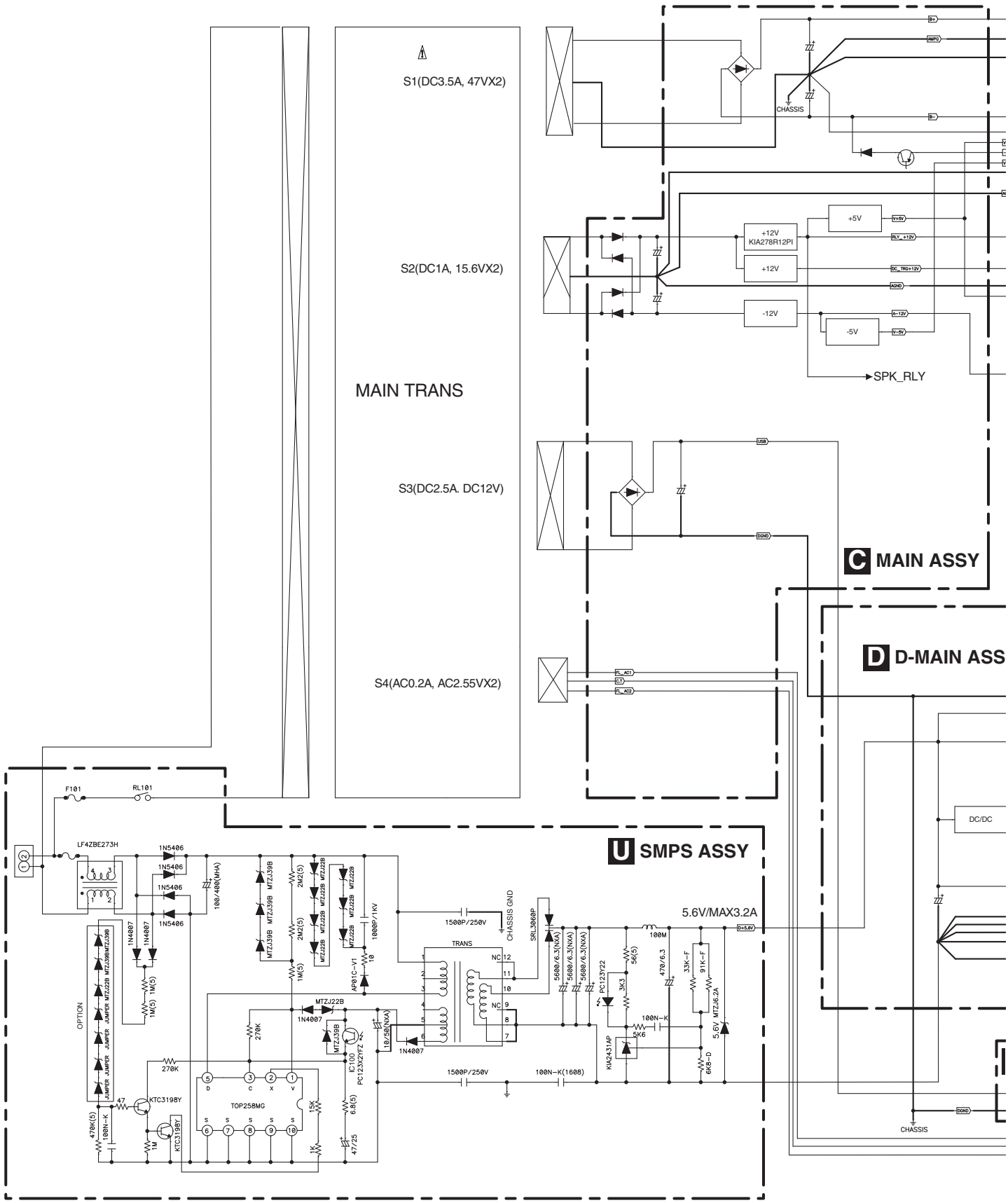

D D-MAIN ASSY
48.5MHz
bit/DE,VS,HS
20 MHz
IP.SCALER
Marvell
"88DE2750"
HDMI Tx
Silicon Image
"Sil9136"
HDMI OUT
27M-148.5MHz
30bit/DE,VS,HS
H FRONT ASSY
EVENT ucom
SANYO
I2C
DDR2
27 MHz
T F-USB ASSY
GUI
uCOM
"EMMA2LL"
USB(FRONT)
Nor FLASH
SDRAM
22.5792MHz
24.576MHz
20 MHz
1st DSP
DA808HS
Array
EPSON
008A"
SeriFlash
SDRAM 166
D-MAIN ASSY
Other ASSY
TMDS
DIGITAL VIDEO
CEC
ANALOG VIDEO
CLOCK
DIGITAL AUDIO
POWER SUPPLY BLOCK Diagram
(DCDC,LDO)

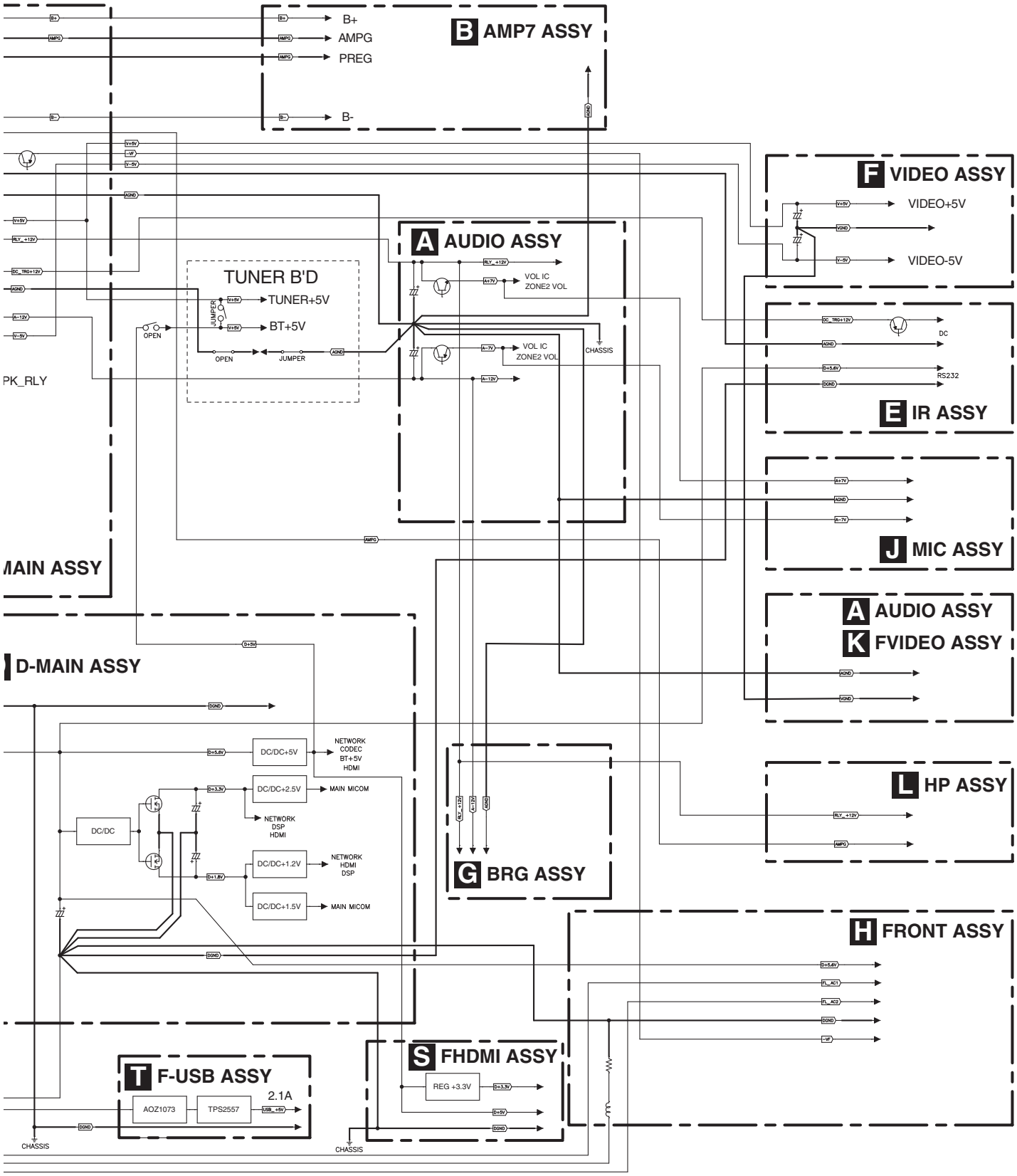
4.5 VIDEO BLOCK DIAGRAM




TMDS
Video BUS
Analog Video
IC1602
HDMI
Tx
Sil9136CTU
JA1601
HDMI OUT
IC909
Video Decoder
ADV7181CBSTZ
System CPU/
IP Converter/
Video Encoder/
GUI
88DE2750
COMP_DET
CVBS_IN
CYINDVC
CBINDVC
CRINDVC
CN901
F VIDEO ASSY
-6dB
-6dB
-6dB
75
3R9
68
MONITOR
OUT
CVBS OUT
VSX60
REC OUT
VSX1122 SYXE8/DLXE
ZONE2 OUT
Y
Cb
Cr
COMPONENT OUT
ONLY
VSX60
IC1007
OSD
PDC162A
OSD
ONLY 1122/SYXE8/DLXE

4.6 POWER SUPPLY BLOCK DIAGRAM

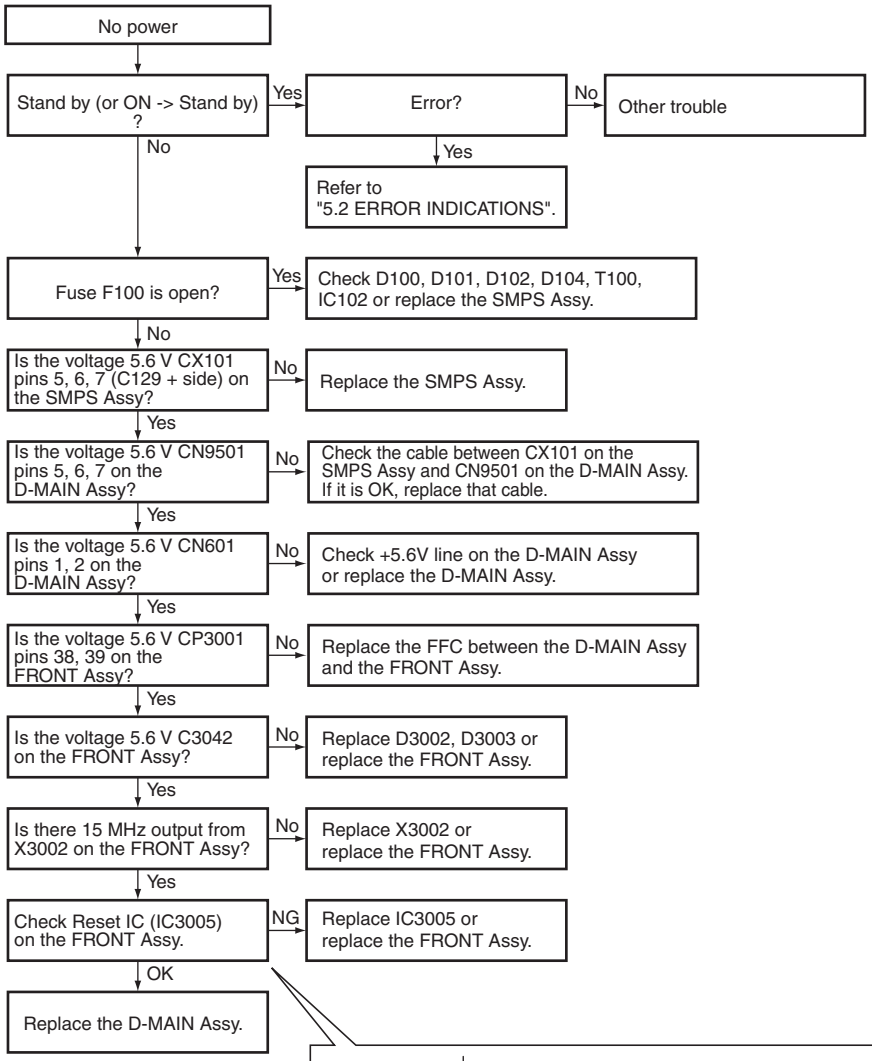


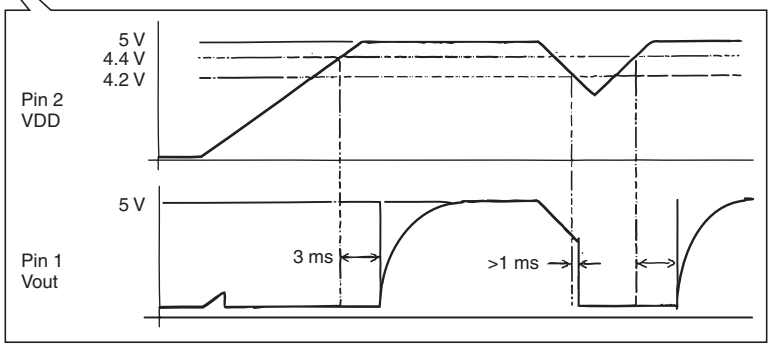

B AMP7 ASSY
B+
AMPG
PREG
B-
A AUDIO ASSY
TUNER B'D
TUNER+5V
BT+5V
JUMPER
OPEN
VOL IC
ZONE2 VOL
CHASSIS
F VIDEO ASSY
VIDEO+5V
VIDEO-5V
E IR ASSY
DC
RS232
J MIC ASSY
A AUDIO ASSY
K FVIDEO ASSY
L HP ASSY
G BRG ASSY
H FRONT ASSY
D-MAIN ASSY
DC/DC+5V
NETWORK
CODEC
BT+5V
HDMI
DC/DC+2.5V
MAIN MICOM
NETWORK
DSP
HDMI
DC/DC
DC/DC+1.2V
NETWORK
HDMI
DSP
DC/DC+1.5V
MAIN MICOM
T F-USB ASSY
AOZ1073
TPS2557
2.1A
S FHDMI ASSY
REG +3.3V
PK_RLY

5. DIAGNOSIS
5.1 TROUBLESHOOTING

No Power

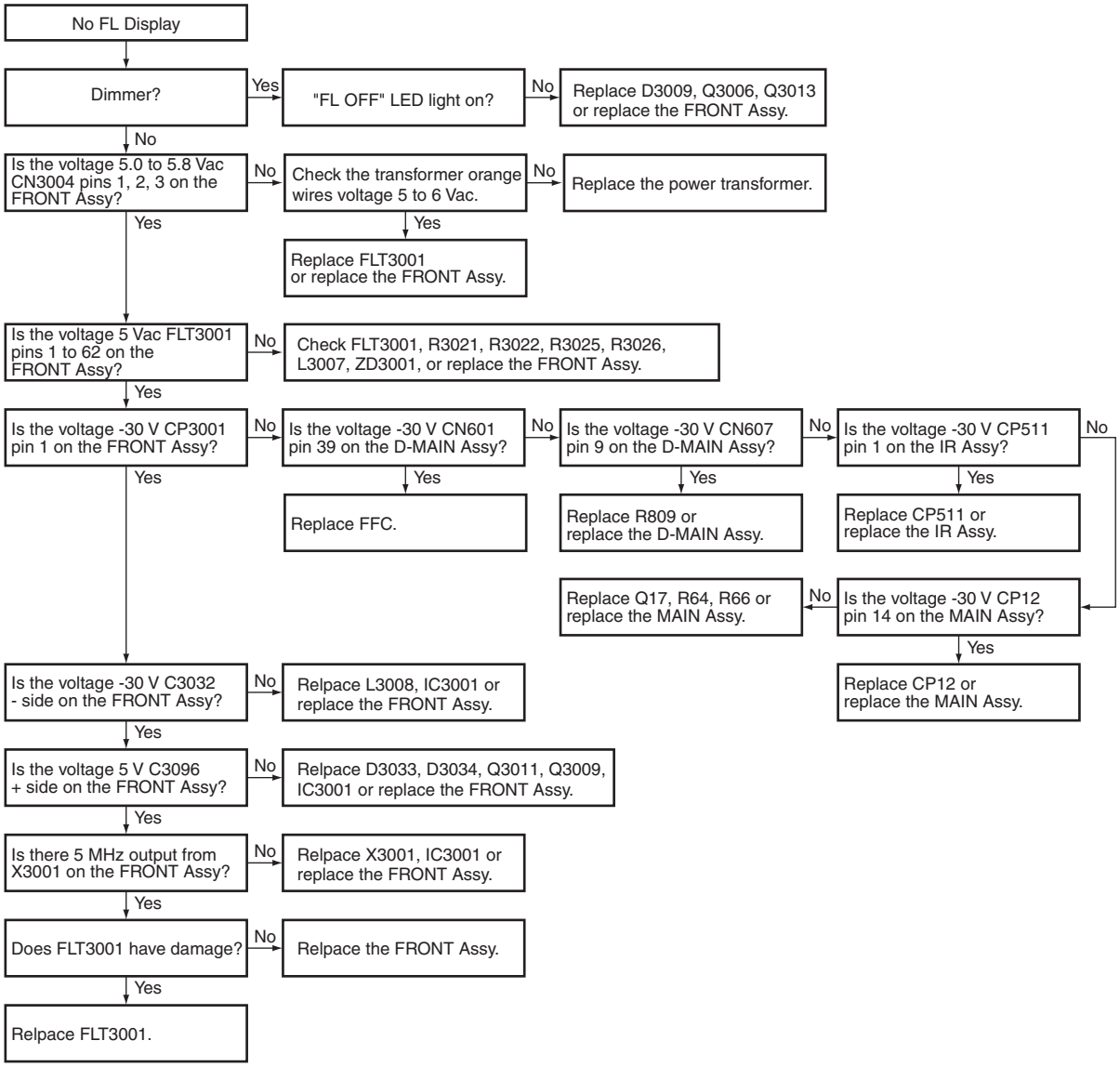
This is just for general reference and does not including every single case.





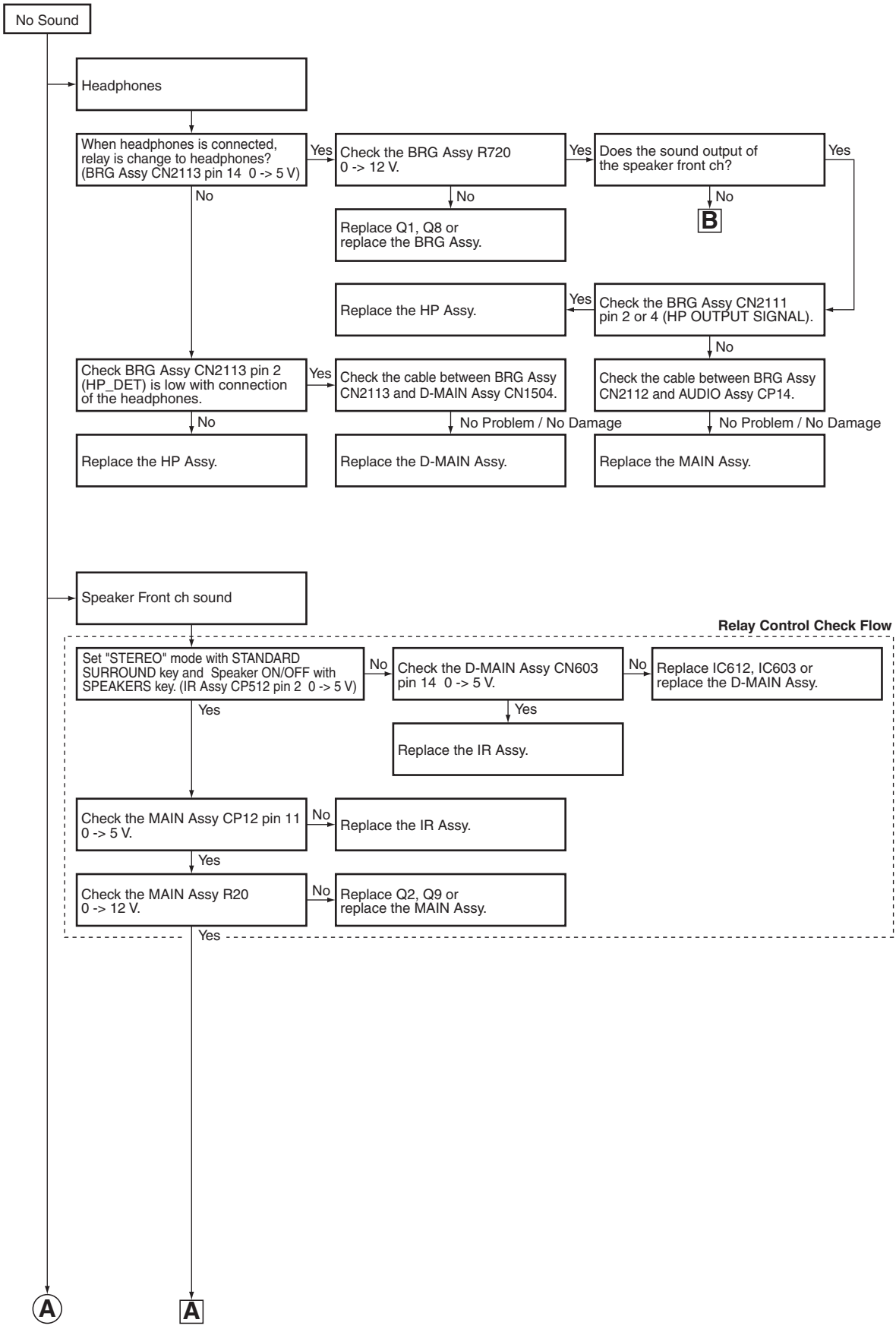
No FL Display

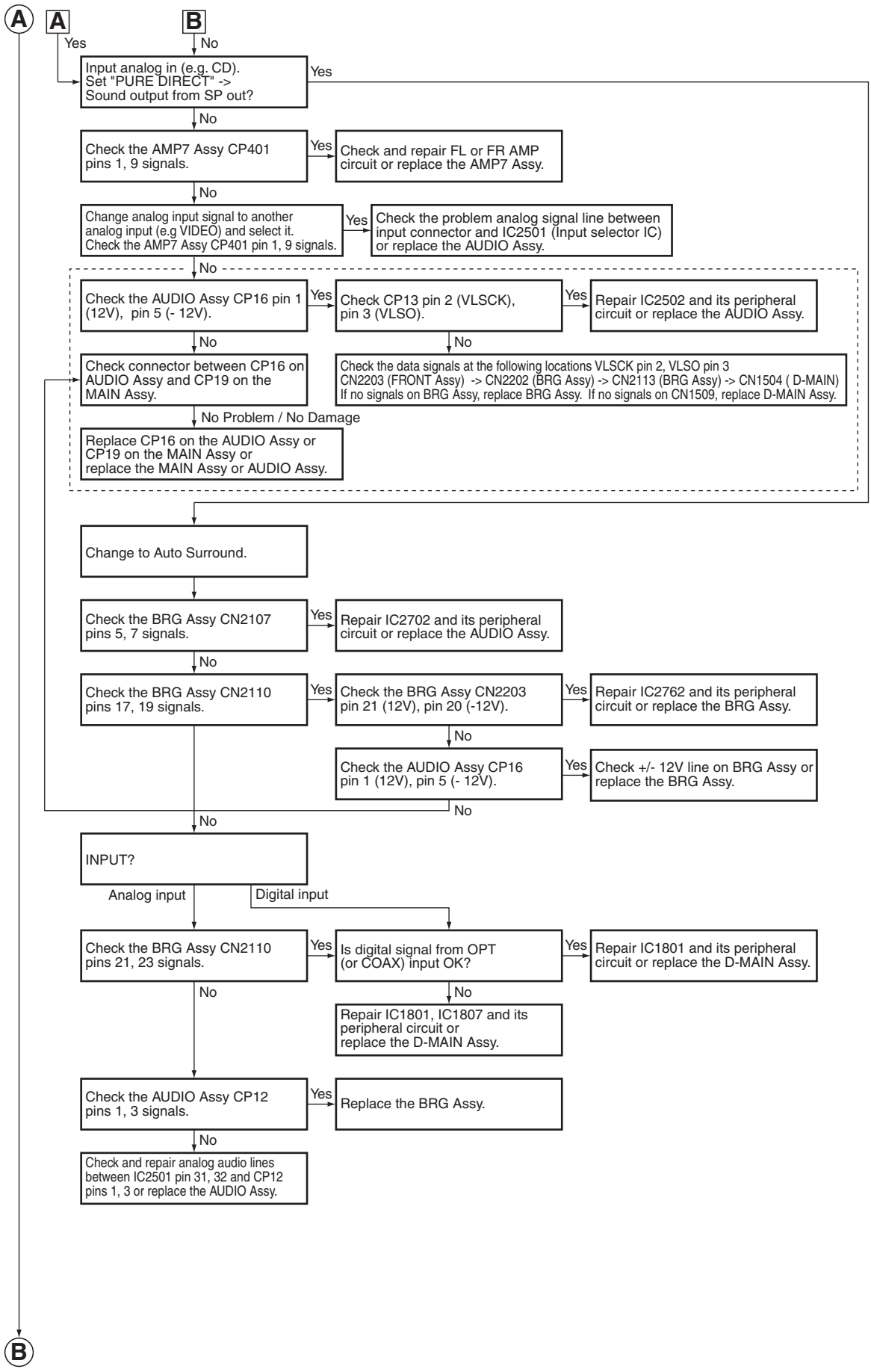
This is just for general reference and does not including every single case.

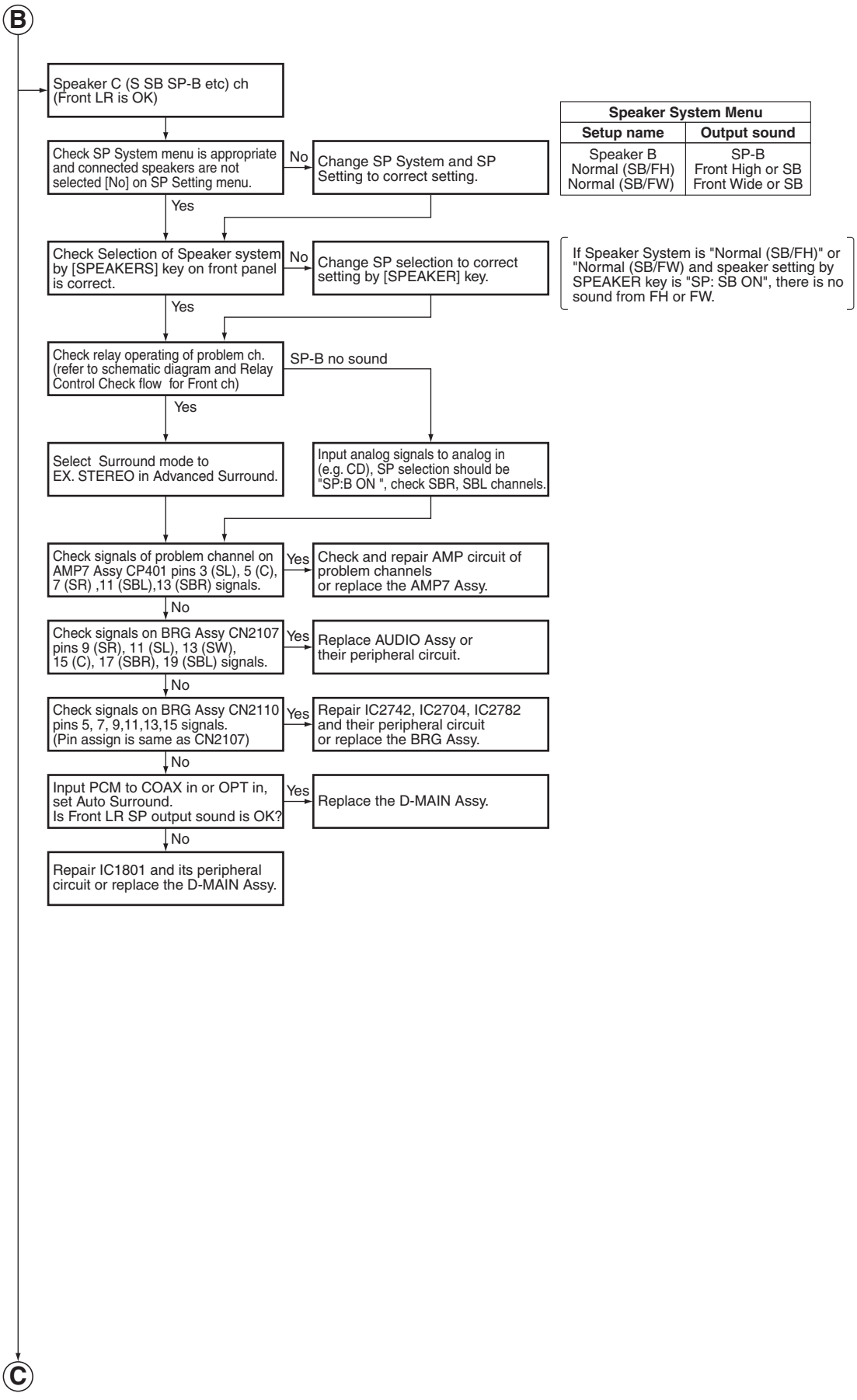


No Sound

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

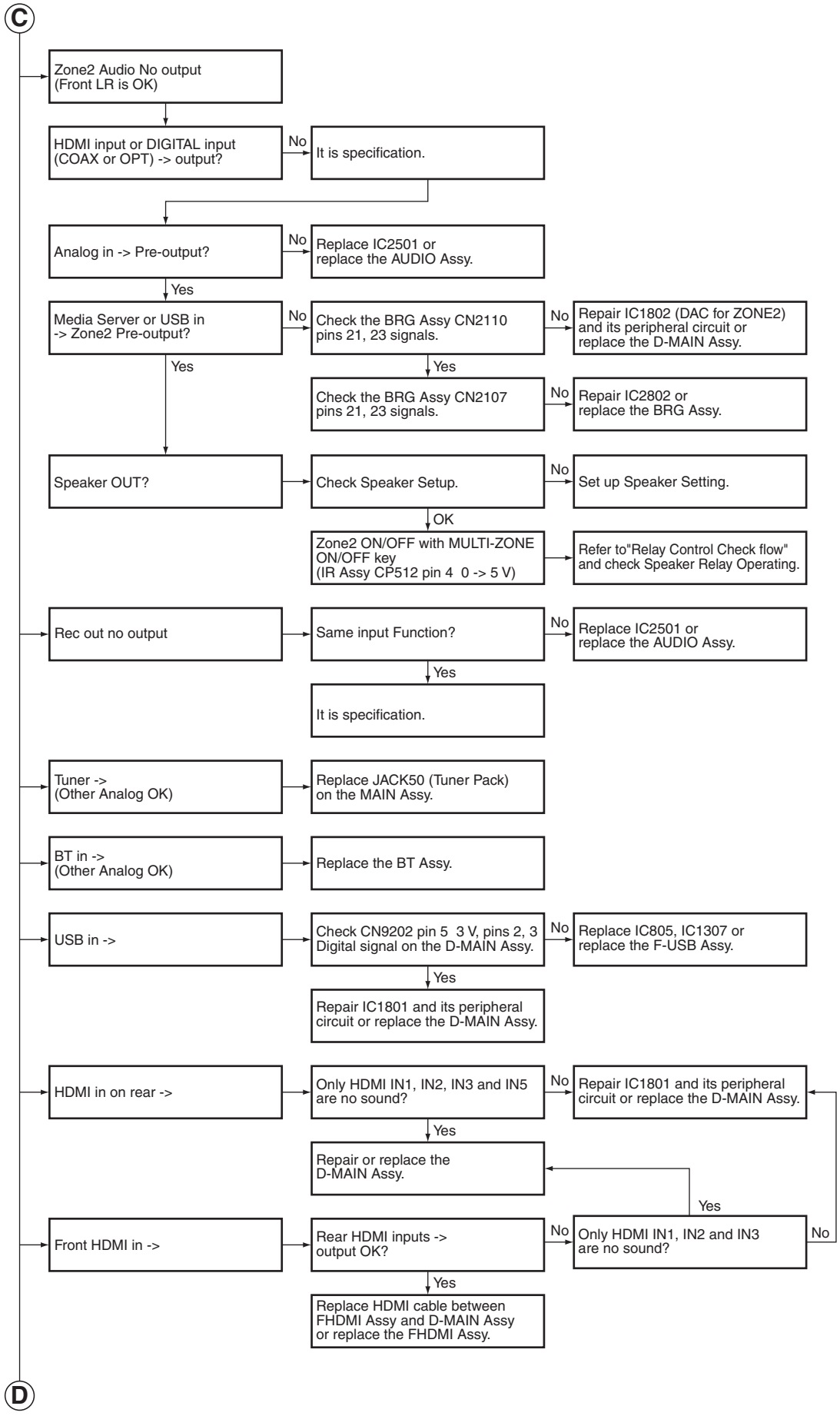


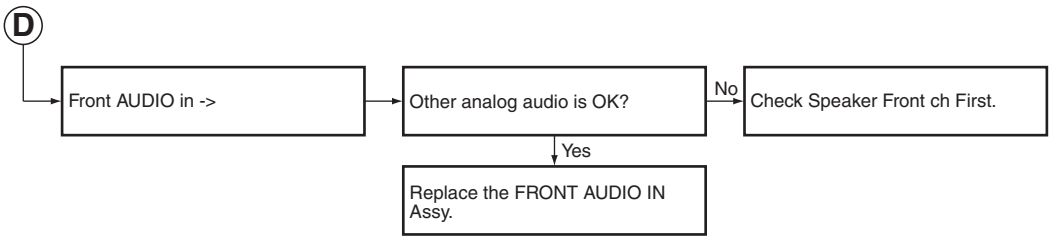

A
A
B
Yes
No
Input analog in (e.g. CD).
Set "PURE DIRECT" ->
Sound output from SP out?
Yes
No
Check the AMP7 Assy CP401
pins 1, 9 signals.
Yes
Check and repair FL or FR AMP
circuit or replace the AMP7 Assy.
No
Change analog input signal to another
analog input (e.g VIDEO) and select it.
Check the AMP7 Assy CP401 pin 1, 9 signals.
Yes
Check the problem analog signal line between
input connector and IC2501 (Input selector IC)
or replace the AUDIO Assy.
No
Check the AUDIO Assy CP16 pin 1
(12V), pin 5 (- 12V).
Yes
Check CP13 pin 2 (VLSCK),
pin 3 (VLSO).
Yes
Repair IC2502 and its peripheral
circuit or replace the AUDIO Assy.
No
No
Check connector between CP16 on
AUDIO Assy and CP19 on the
MAIN Assy.
Check the data signals at the following locations VLSCK pin 2, VLSO pin 3
CN2203 (FRONT Assy) -> CN2202 (BRG Assy) -> CN2113 (BRG Assy) -> CN1504 (D-MAIN)
If no signals on BRG Assy, replace BRG Assy. If no signals on CN1509, replace D-MAIN Assy.
No Problem / No Damage
Replace CP16 on the AUDIO Assy or
CP19 on the MAIN Assy or
replace the MAIN Assy or AUDIO Assy.
Change to Auto Surround.
Check the BRG Assy CN2107
pins 5, 7 signals.
Yes
Repair IC2702 and its peripheral
circuit or replace the AUDIO Assy.
No
Check the BRG Assy CN2110
pins 17, 19 signals.
Yes
Check the BRG Assy CN2203
pin 21 (12V), pin 20 (-12V).
Yes
Repair IC2762 and its peripheral
circuit or replace the BRG Assy.
No
Check the AUDIO Assy CP16
pin 1 (12V), pin 5 (- 12V).
Yes
Check +/- 12V line on BRG Assy or
replace the BRG Assy.
No
No
INPUT?
Analog input
Digital input
Check the BRG Assy CN2110
pins 21, 23 signals.
Yes
Is digital signal from OPT
(or COAX) input OK?
Yes
Repair IC1801 and its peripheral
circuit or replace the D-MAIN Assy.
No
No
Repair IC1801, IC1807 and its
peripheral circuit or
replace the D-MAIN Assy.
Check the AUDIO Assy CP12
pins 1, 3 signals.
Yes
Replace the BRG Assy.
No
Check and repair analog audio lines
between IC2501 pin 31, 32 and CP12
pins 1, 3 or replace the AUDIO Assy.
B



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

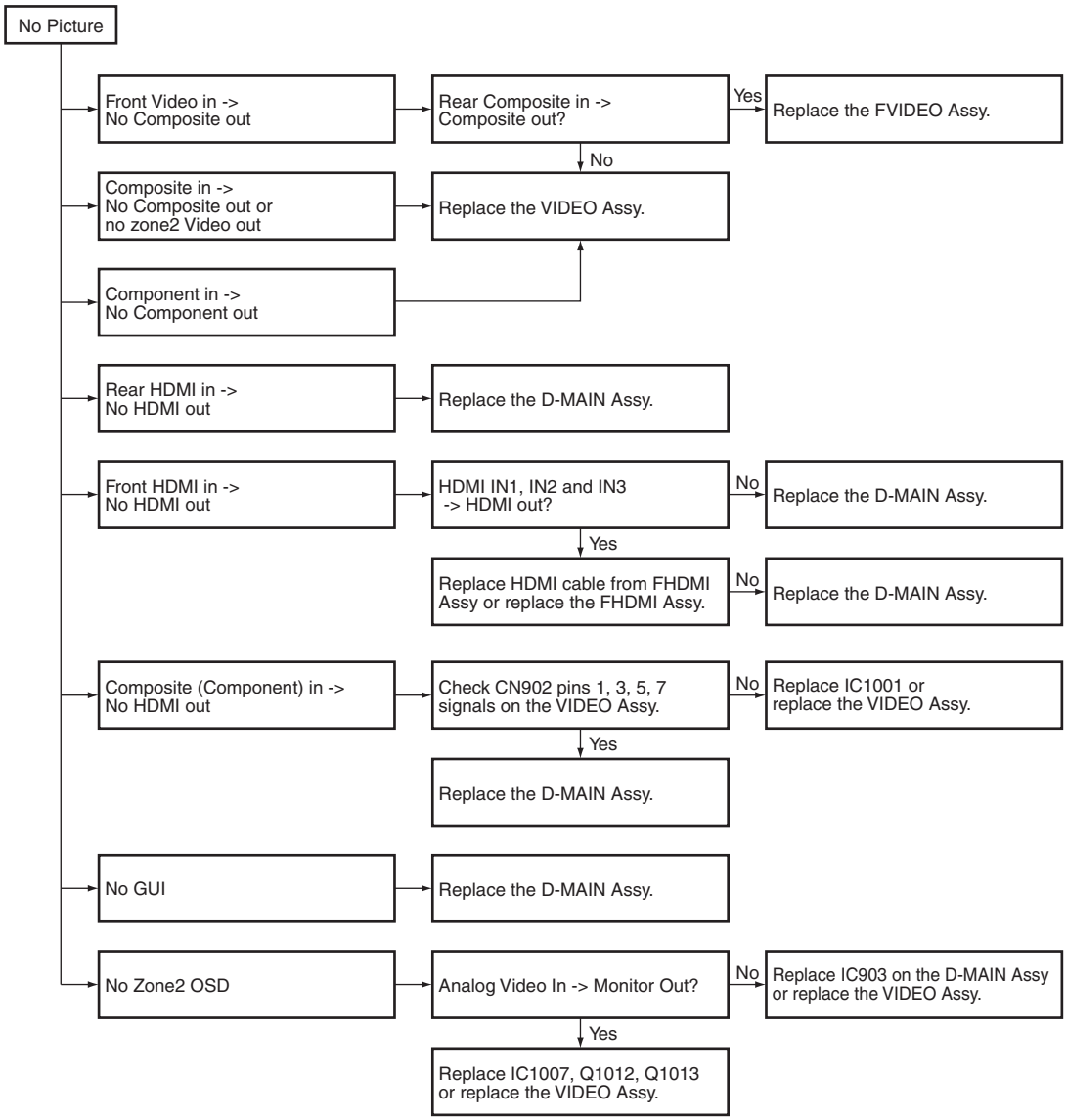
If Speaker System is "Normal (SB/FH)" or "Normal (SB/FW) and speaker setting by SPEAKER key is "SP: SB ON", there is no sound from FH or FW.


C
Zone2 Audio No output
(Front LR is OK)
HDMI input or DIGITAL input
(COAX or OPT) -> output?
No
It is specification.
Analog in -> Pre-output?
No
Replace IC2501 or
replace the AUDIO Assy.
Yes
Media Server or USB in
-> Zone2 Pre-output?
No
Check the BRG Assy CN2110
pins 21, 23 signals.
No
Repair IC1802 (DAC for ZONE2)
and its peripheral circuit or
replace the D-MAIN Assy.
Yes
Yes
Check the BRG Assy CN2107
pins 21, 23 signals.
No
Repair IC2802 or
replace the BRG Assy.
Speaker OUT?
Check Speaker Setup.
No
Set up Speaker Setting.
OK
Zone2 ON/OFF with MULTI-ZONE
ON/OFF key
(IR Assy CP512 pin 4 0 -> 5 V)
Refer to"Relay Control Check flow"
and check Speaker Relay Operating.
Rec out no output
Same input Function?
No
Replace IC2501 or
replace the AUDIO Assy.
Yes
It is specification.
Tuner ->
(Other Analog OK)
Replace JACK50 (Tuner Pack)
on the MAIN Assy.
BT in ->
(Other Analog OK)
Replace the BT Assy.
USB in ->
Check CN9202 pin 5 3 V, pins 2, 3
Digital signal on the D-MAIN Assy.
No
Replace IC805, IC1307 or
replace the F-USB Assy.
Yes
Repair IC1801 and its peripheral
circuit or replace the D-MAIN Assy.
HDMI in on rear ->
Only HDMI IN1, IN2, IN3 and IN5
are no sound?
No
Repair IC1801 and its peripheral
circuit or replace the D-MAIN Assy.
Yes
Repair or replace the
D-MAIN Assy.
Yes
Front HDMI in ->
Rear HDMI inputs ->
output OK?
No
Only HDMI IN1, IN2 and IN3
are no sound?
No
Yes
Replace HDMI cable between
FHDMI Assy and D-MAIN Assy
or replace the FHDMI Assy.
D



No Picture

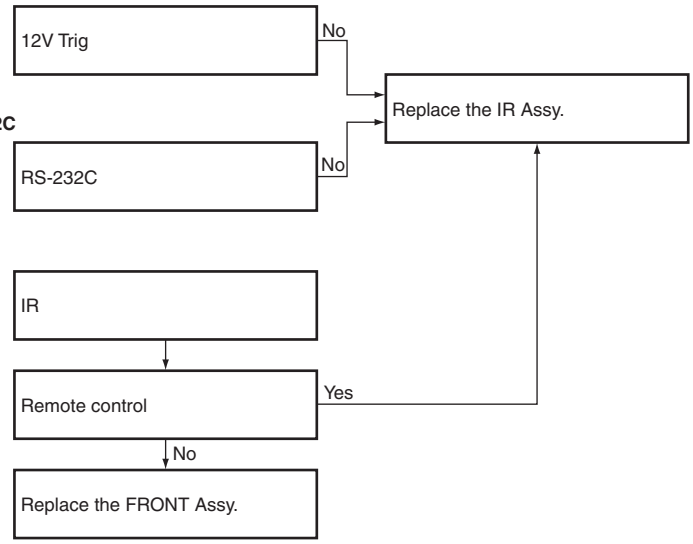
This is just for general reference and does not including every single case.



Others

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

12V Trig



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]

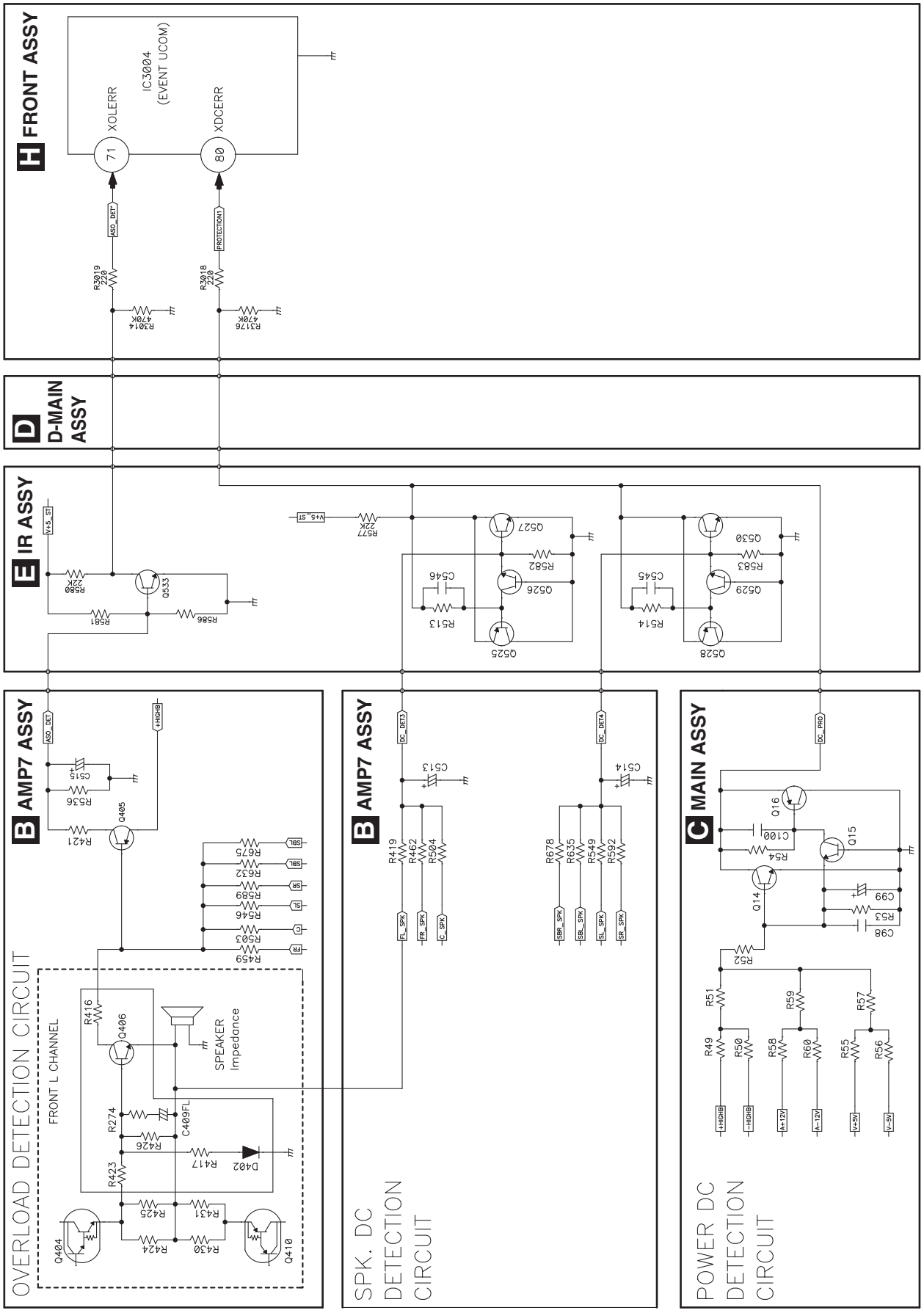
Item	FL Display	LED Flashes	NG Count.	Detection Method	Process After Detection	Description / Remarks
"AMP DC" ("DC output from SP term") detection	Flashing "AMP ERR" for 3 seconds	ADVANCED MCACC LED	DC	XDCERR (Pin 80 of IC3004) Detect "L"	1) Muting on, speaker relay off. 2) "AMP ERR" flashing 3) Shutdown after 3 seconds. 4) "ADVANCED 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 iPhone iPad LED	OL	XOLERR (Pin 71 of IC3004) Detect "L"	1) Muting on, speaker relay off. 2) Shutdown immediately. 3) "iPod iPhone iPad" 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) "FL OFF" LED flashing 5) Power on is acceptable after 1 minute.	To detect overheat of inner tempareture.
"Abnormality DC voltage of the Digital power supply" detection	N/A	iPod iPhone iPad LED	DERR	XVDDERR (Pin 70 of IC3004) Detect "L"	1) Muting on, speaker relay off. 2) Shutdown immediately. 3) "iPod iPhone iPad" 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 (VCO0) (Pin K2 of IC9204 (DM860A)) Detect "H"	1) Bass Power off 2) Display "Over Current"	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 (MII_CRS) (Pin R14 of IC9204 (DM860A)) 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)	1) Muting on, speaker relay off. 2) Shutdown immediately. 3) "FL OFF" LED flashing 4) Power on is acceptable after 1 minute.	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 interrupts the OVER HEAT detection for 2 minutes.
"WiFi Over Current" detection	WLAN POW ERR	N/A	N/A	XWUSB ERR (Pin 45 of IC3004)	WUSBPOW is set to L.	To detect the connected WiFi Adapter device is overload. (over 600 mA)

[How to Enter Release Mode]

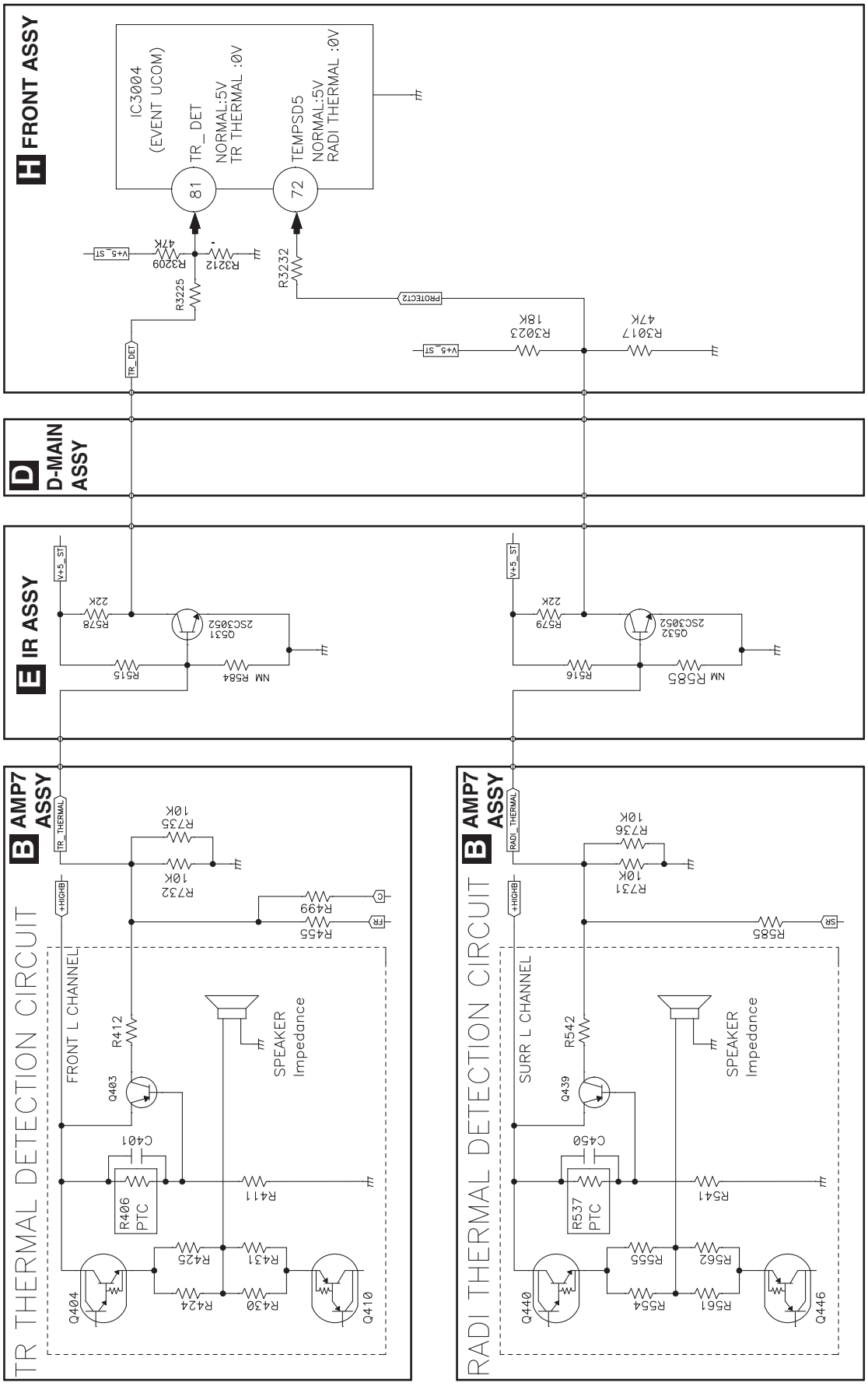
During Standby mode, simultaneously press and hold the "TUNE ↓" and "MULTI-ZONE ON/OFF" keys for 5 seconds.

5.3 DETECTION CIRCUIT

[1] Overload and DC Protection Circuit



[2] TEMP Protection Circuit

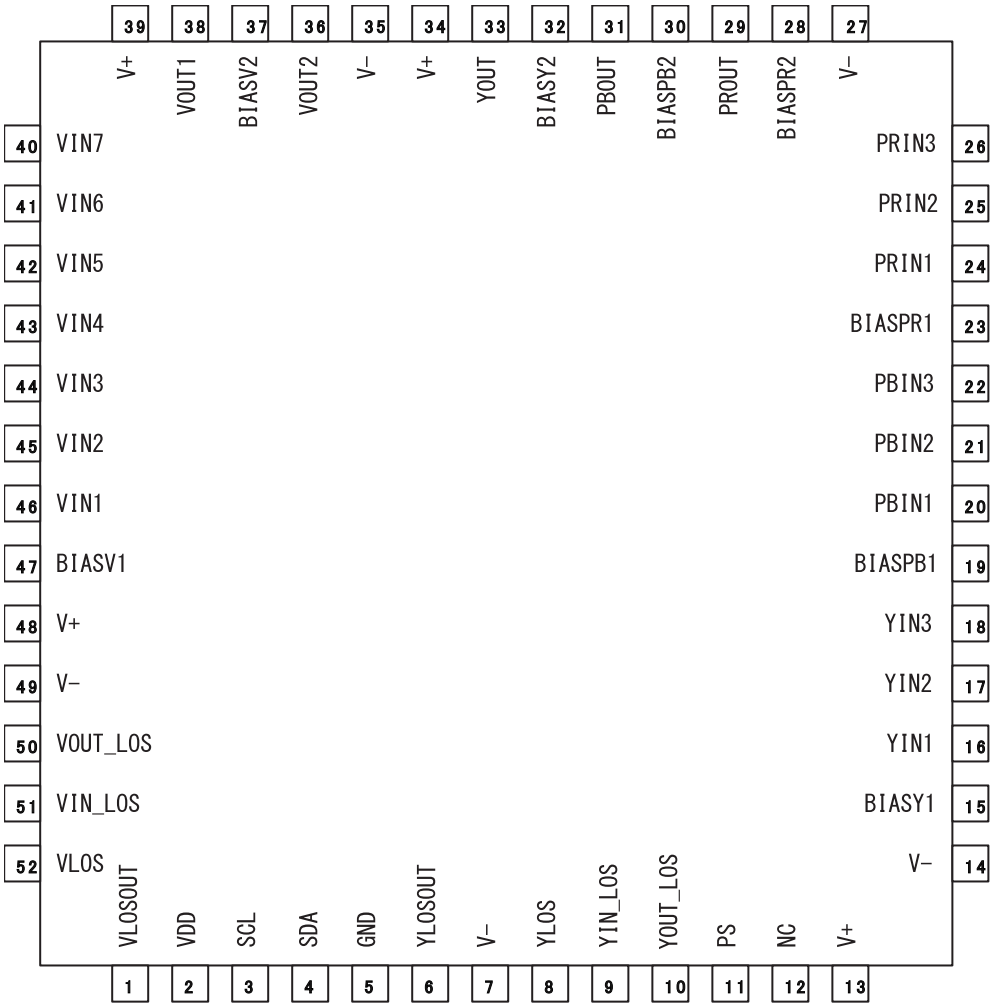


5.4 IC INFORMATION

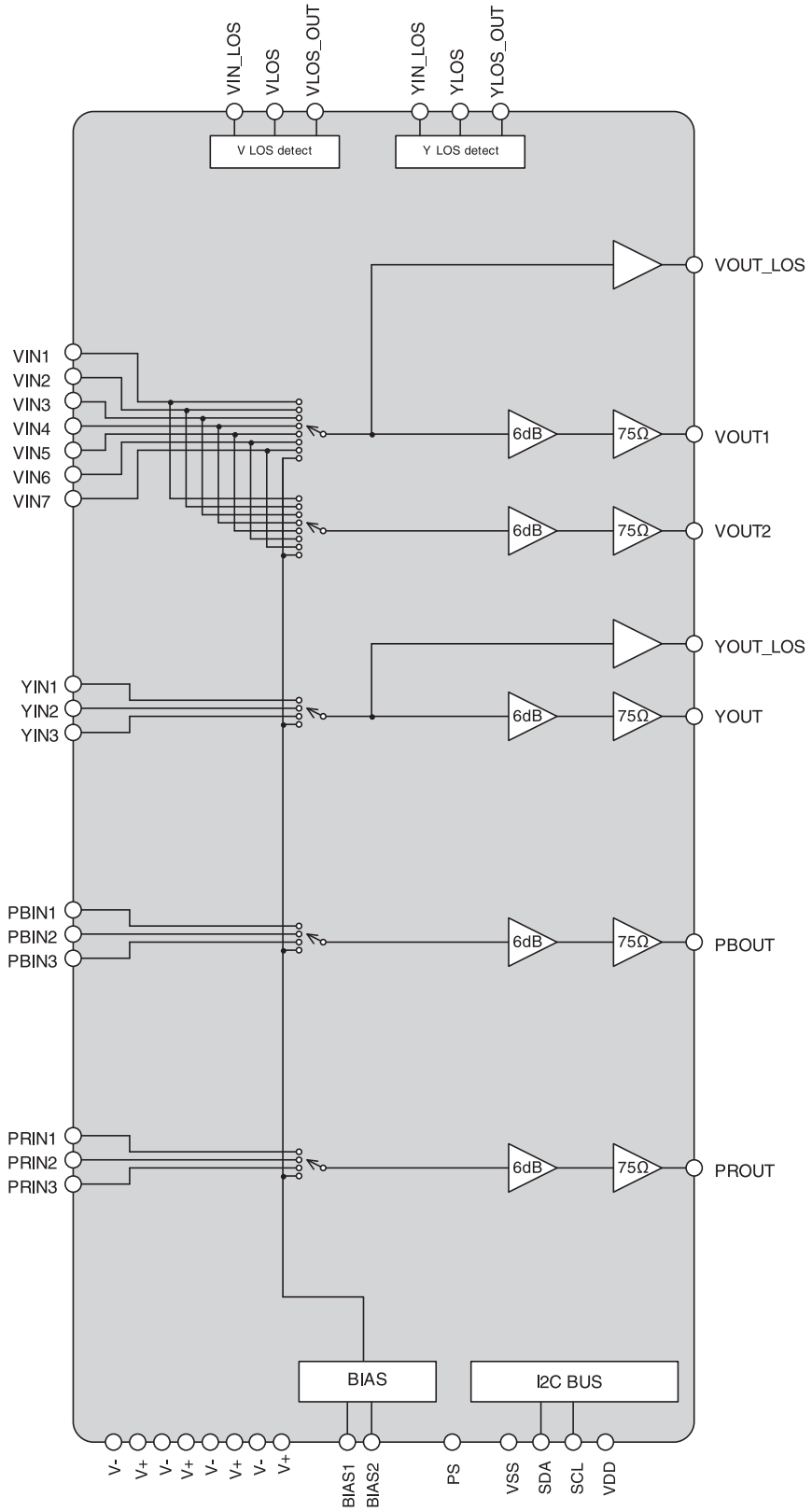
■ J171132900010-IL (VIDEO ASSY: IC1001)

IC, MONITOR SW

• Pin Arrangement (Top view)



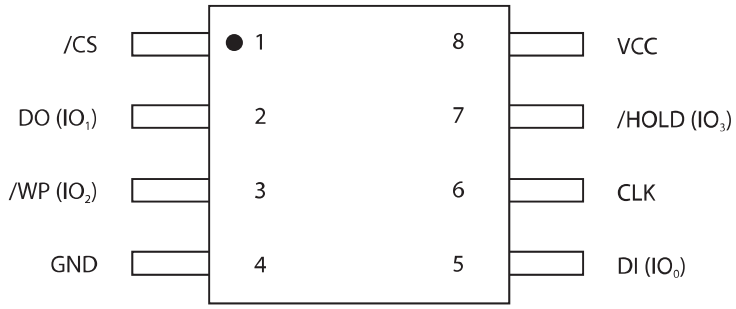
• Block Diagram



■ (J005251601010S-IL) (D-MAIN ASSY: IC9004)

IC, MEMORY FLASH

• Pin Arrangement (Top view)



• Pin Function

PIN NO.	PIN NAME	I/O	FUNCTION
1	/CS	I	Chip Select Input
2	DO (IO1)	I/O	Data Output (Data Input Output 1)*1
3	/WP (IO2)	I/O	Write Protect Input (Data Input Output 2)*2
4	GND		Ground
5	DI (IO0)	I/O	Data Input (Data Input Output 0)*1
6	CLK	I	Serial Clock Input
7	/HOLD (IO3)	I/O	Hold Input (Data Input Output 3)*2
8	VCC		Power Supply

*1 IO0 and IO1 are used for Dual and Quad instructions

*2 IO0 – IO3 are used for Quad instructions

6. SERVICE MODE
6.1 TEST MODE

[1] Detected protection history

[Purpose]

The numbers of detections for various protection processes are displayed.

[How to enter]

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.

[Basic operations]

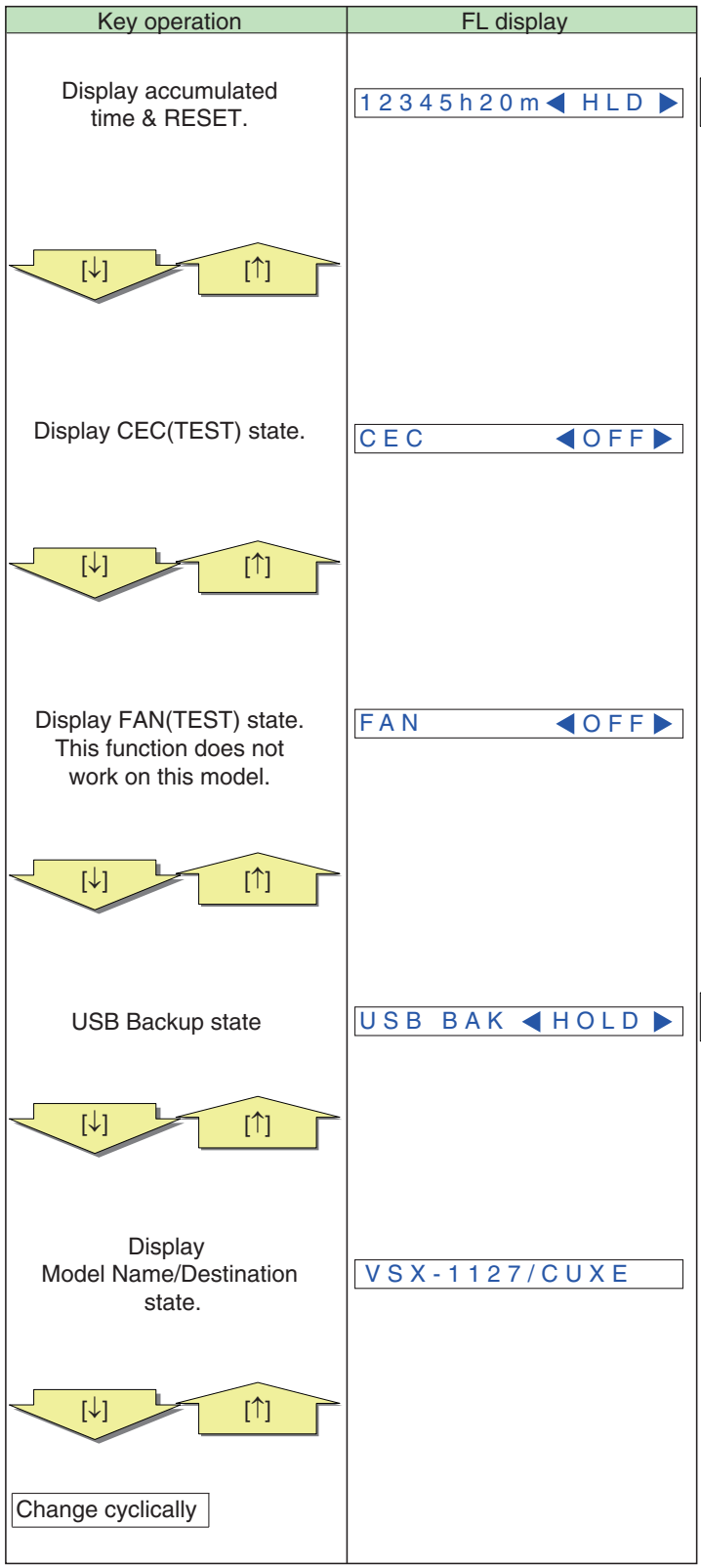
Key operation	FL display
Display number of times DC is detected.	D C : ＊＊＊
[↓] [↑]	
Display number of times OVERLOAD is detected.	O L : ＊＊＊
[↓] [↑]	
Display number of times COMBINATION is detected. (Detects DC and OVERLOAD simultaneously)	C O M : ＊＊＊
[↓] [↑]	
Display number of times Power abnormality is detected.	X P R T : ＊＊＊
[↓] [↑]	
Display number of times AMP overheat is detected.	S T M P : ＊＊＊
[↓] [↑]	
Display number of times Digital Power abnormality is detected.	D E R R : ＊＊＊
[↓] [↑]	
Resetting the number of times error is detected.	R E S E T ◀H O L D▶
[↓] [↑]	

Front Panel Key

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

Resetting the number of times error is detected

Key operation	FL display
[←][→]	R E S E T ◀C L E A R ?▶
[ENTER]	R E S E T ◀ R E S E T ▶
↓ Continued	



Resetting the accumulated time

Key operation	FL display
[←][→]	12345h 20m CL?
[ENTER]	0h 00m RST
↓ Continued	

Display CEC(TEST) state.

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

Note:
In case of US models, [USB Backup] function is not implemented with the first firmware.
Before performing the backup function, please check the unit version. If small version number of Main com (EMMA) is smaller than 157, please update to the latest version.
If that is 157 or over (e.g. [1-157076014091]), the backup function is implemented.

Saving and Loading of USB backup state.

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

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

[Description]

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

6.2 DEFAULT SETTINGS

Default system settings

Setting		Default
Digital Video Converter		ON
SPEAKERS		SB/FH
Speaker System		Normal(SB/FH)
Speaker Setting	Front	SMALL
	Center	SMALL
	FH/FW	SMALL
	Surr	SMALL
	SB	SMALLx2
	SW	YES
Surround Position		IN REAR
Crossover		80 Hz
X-Curve		OFF
DIMMER		Brightest
HDMI		
HDMI Audio		Amp
Control		OFF
Control Mode		--- (OFF)
ARC (Audio Return Channel)		--- (OFF)
PQLS		--- (AUTO)
Standby Through		OFF
DSP		
Power On Level		LAST
Volume Limit		OFF
Mute Level		FULL
Phase Control		ON
Auto Sound Retriever	iPod/USB, INTERNET RADIO, SiriusXM, PANDORA, MEDIA SERVER, FAVORITES, ADAPTER PORT input function	ON
	Other input functions	OFF
Sound Delay		0.0 frame
Dual Mono		CH1
DRC		AUTO
SACD Gain		0 dB
LFE Attenuate		0 dB
Auto delay		OFF
Digital Safety		OFF
Effect Level	ExtendedStereo	90
	Other modes	50
PL II Music Options	Center Width	3
	Dimension	0
	Panorama	OFF
Neo:6 Options	Center Image	Neo:6 CINEMA: 10 Neo:6 MUSIC: 3
PL IIz Options	Height Gain	MID
All Inputs	Listening Mode (2 ch/multi ch)	AUTO SURROUND
	Listening Mode (Headphones)	STEREO
MCACC		
MCACC Position Memory		M1: MEMORY 1
Channel Level (M1 to M6)		0.0 dB
Speaker Distance (M1 to M6)		10'00''
Standing Wave (M1 to M6)	ATT of all channels/filters	0.0 dB
	SWch Wide Trim	0.0 dB
EQ Data (M1 to M6)	All channels/bands	0.0 dB
	EQ Wide Trim	0.0 dB

Default input settings

Input function	Input Terminals		
	HDMI	Audio	Component
BD	(**BD**)		
DVD	**IN 1**	**COAX-1**	**IN 1**
SAT/CBL	**IN 2**	**COAX-2** <a>	●
DVR/BDR	**IN 3**	**OPT-2** <a>	●
HDMI 4	**IN 4**		
HDMI 5	**IN 5** <b>		
HDMI 6 <a>	**IN 6**		
INTERNET RADIO			
SiriusXM			
PANDORA			
MEDIA SERVER			
FAVORITES			
iPod/USB			
TV		**OPT-1**	
CD		**ANALOG-1** <c>	
TUNER			
ADAPTER PORT			

a VSX-1127 only.
b Located on the front panel for the VSX-1127.
c Only the **TV** and **CD** inputs can be assigned to **ANALOG-1**.

Resetting the system

Use this procedure to reset all the receiver's settings to the factory default. Use the front panel controls to do this.

Set MULTI-ZONE to **MULTI ZONE OFF**.

- Disconnect the iPod and USB memory device from the receiver beforehand.
- Set the **Control** with HDMI to **OFF**.

1 Switch the receiver into standby.

2 While holding down ENTER on the front panel, press ⏻ STANDBY/ON.

The display shows **RESET ◄ NO ►**.

3 Select 'RESET' using PRESET ⬅/➡, then press ENTER on the front panel.

The display shows **RESET? OK**.

4 Press ENTER to confirm.

OK appears in the display to indicate that the receiver has been reset to the factory default settings.

- Note that all settings will be saved, even if the receiver is unplugged.

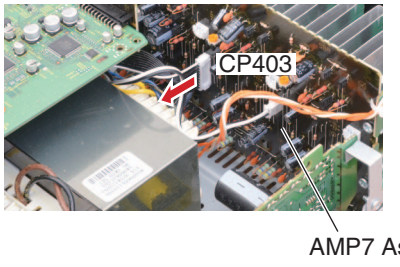
7. DISASSEMBLY

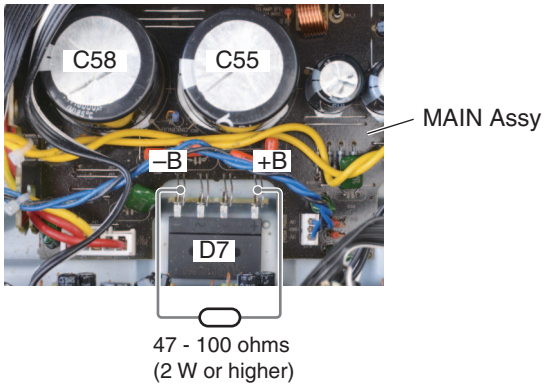
Note:
(1) Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.
(2) For performing the diagnosis shown below, the following jigs for service is required:
- 13P extension jig cable (GGD1740)
- 3P extension jig cable (GGD1741)
- Board to board extension jig cable (GGD1736) + Conversion jig (GGD1802)
- Board to board extension jig cable (GGD1798) + Conversion jig (GGD1803)
- Board to board extension jig cable (GGD1799)

1. Discharging

[1] MAIN Assy Capacitor (C55, C58)

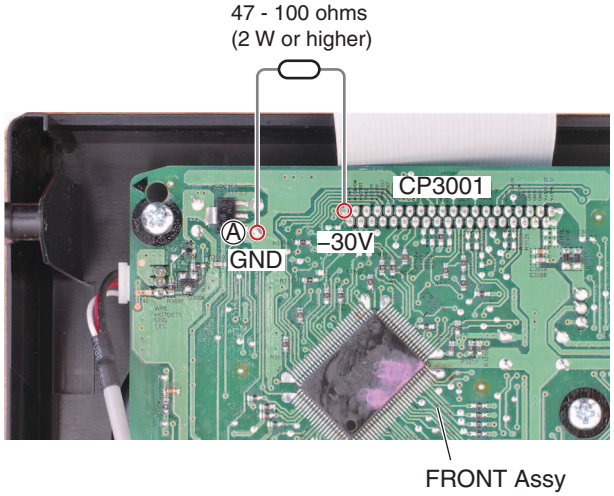
[Procedures]
(1) Unplug the power cord.
(2) Disconnect the 10P connector from CP403 of the AMP7 Assy between CN3 of the MAIN Assy.
(3) Connect +B and –B terminal of the D7, using resistor leads with 47 - 100 ohms (2 W or higher), for discharging.
∗ Discharging time: 30 - 60 seconds, depending on the 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).





[2] FL-30 V Capacitor

[Procedures]
(1) Unplug the power cord.
(2) Connect pin 1 (–30V) and GND terminal Ⓐ of CP3001 on the FRONT Assy, 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).

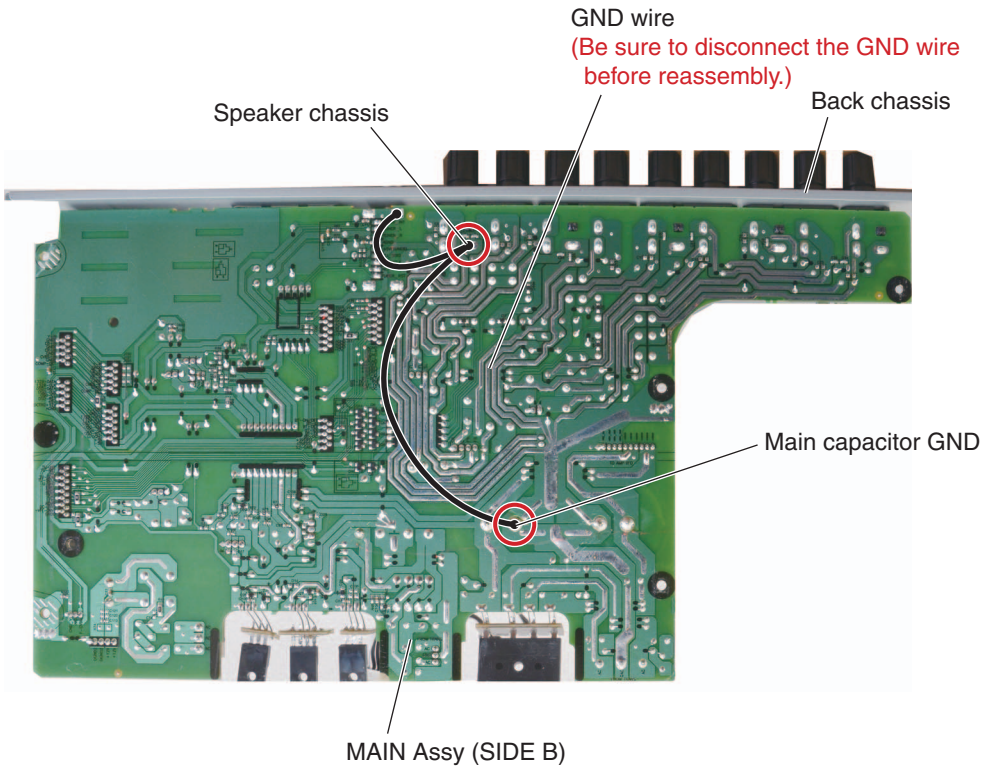


2. Notes on Ground Points Connection

[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.

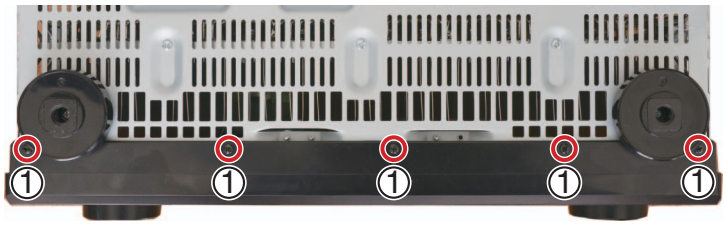


3. Disassembly

[1] Front Panel Section

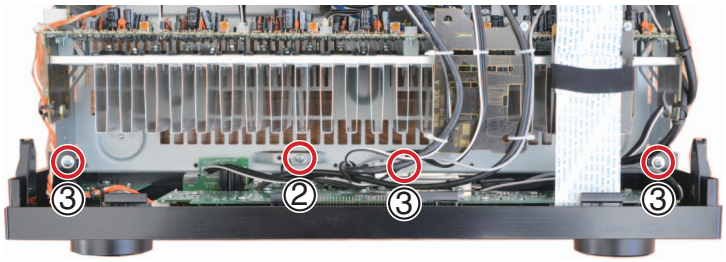
Remove the cabinet by removing the 10 screws.

(1) Remove the five screws. (BBZ30P080FTB)

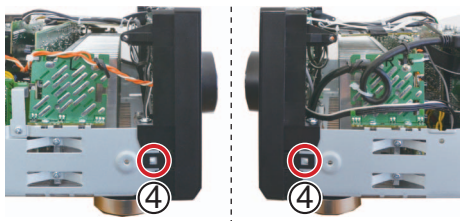


• Bottom view

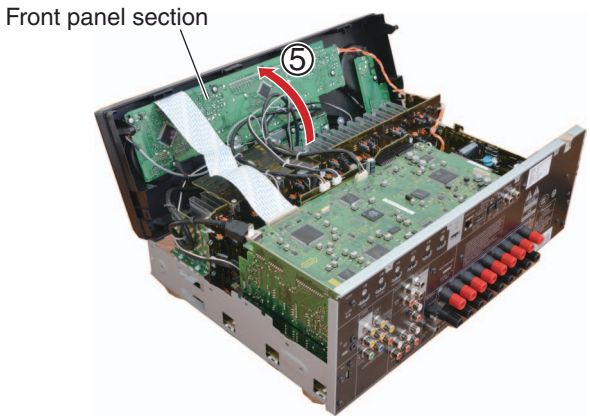
(2) Remove the one screw.
(BBZ30P080FTC)
(3) Remove the three screws.
(1500001206010-IL)



(4) Unhook the two hooks.



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

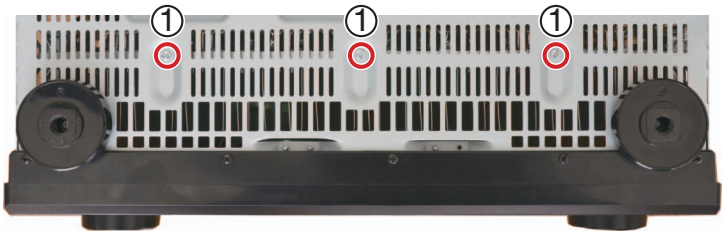


[2] Heatsink Section

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

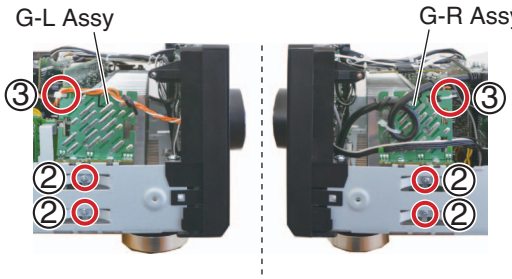
Remove the cabinet by removing the 10 screws.

(1) Remove the three screws. (BBZ30P080FTC)

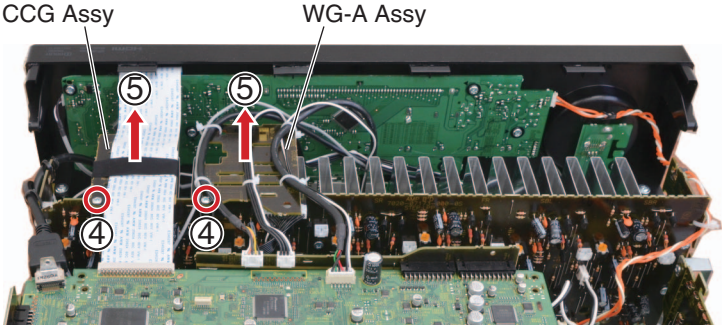


• Bottom view

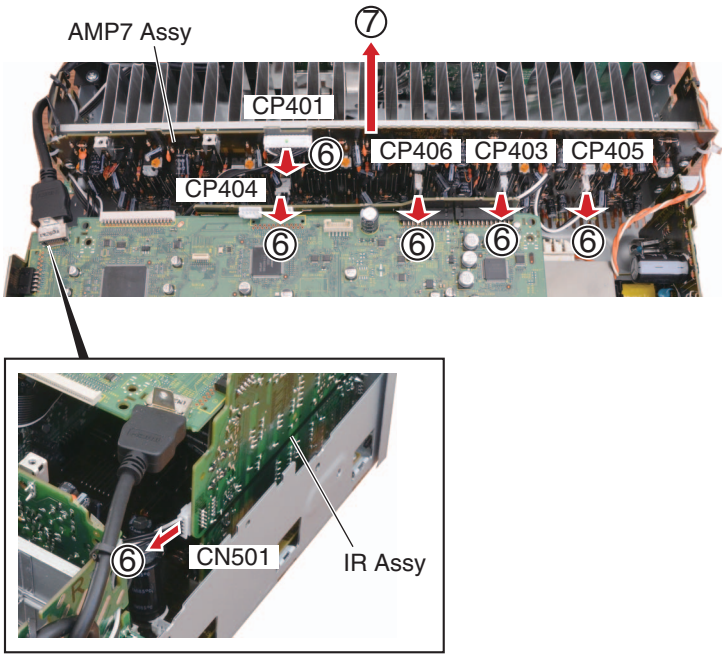
(2) Remove the four screws. (BBZ30P080FTC)
(3) Cut the two binders.



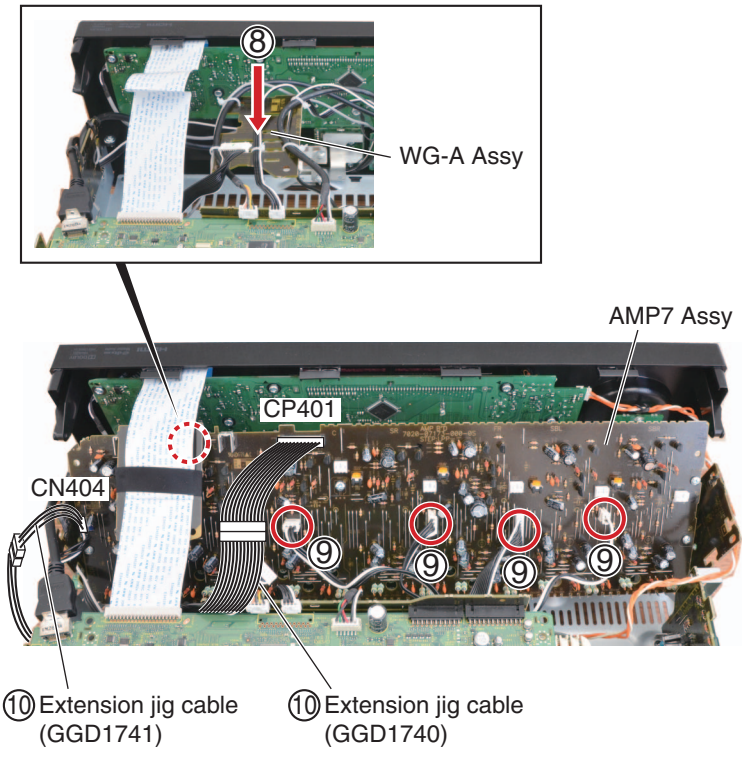
(4) Remove the two screws. (BBZ30P080FTC)
(5) Remove the WG-A and CCG Assemblies.



(6) Disconnect the six connectors.
(7) Remove the Heatsink section.



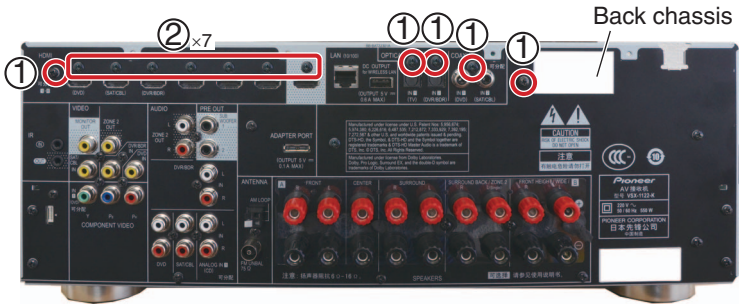
(8) As shown, arrange the Heatsink section over the WG-A Assy.
(9) Re-connect the four connectors.
(10) Connect the two extension jig cables.



[3] D-MAIN Assy

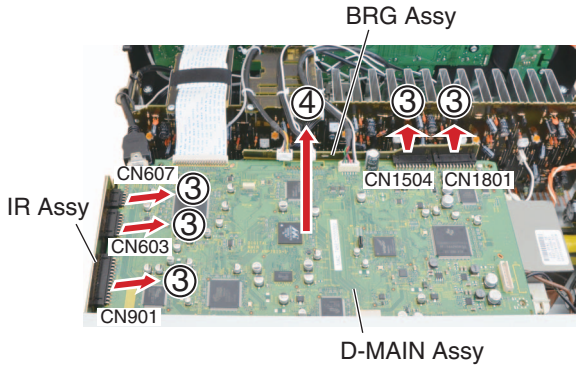
Remove the cabinet by removing the 10 screws.

(1) Remove the five screws. (BBT30P100FTB)
(2) Remove the seven screws. (BSZ30P040FTB)

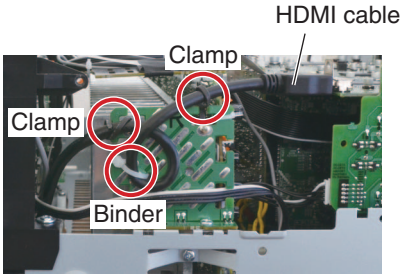


• Rear view

(3) Disconnect the five B to B connectors.
(CN603, 607, 901, 1504, 1801)
(4) Remove the D-MAIN Assy.

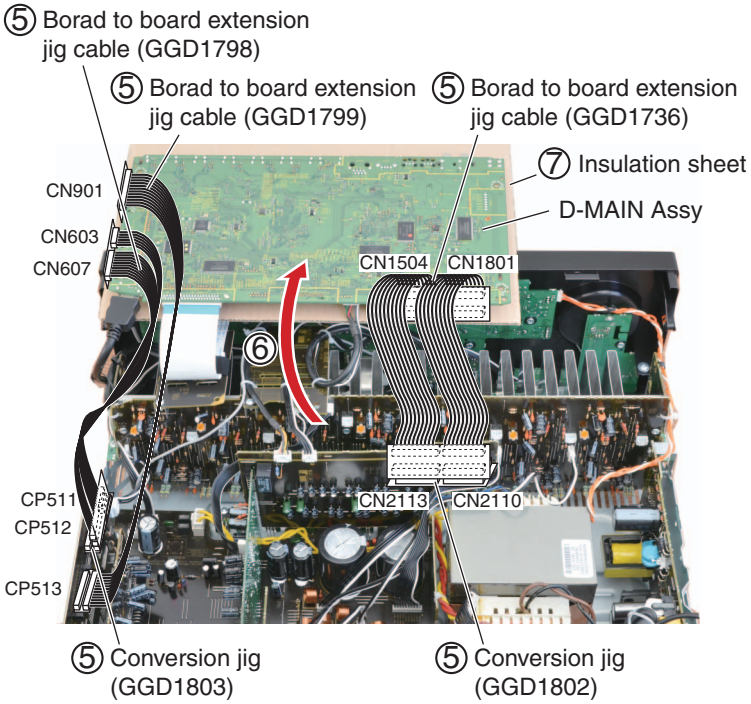


• HDMI cable styling



Note:
Make styling so that tension does not hang to the HDMI connector.

(5) Connect the five extension jig cables.
(6) Arrange the D-MAIN Assy in the photo below.
(7) Insert any insulation sheet.



Note:
Confirm that a B to B connector of BRG Assy is connected to AUDIO Assy tightly.

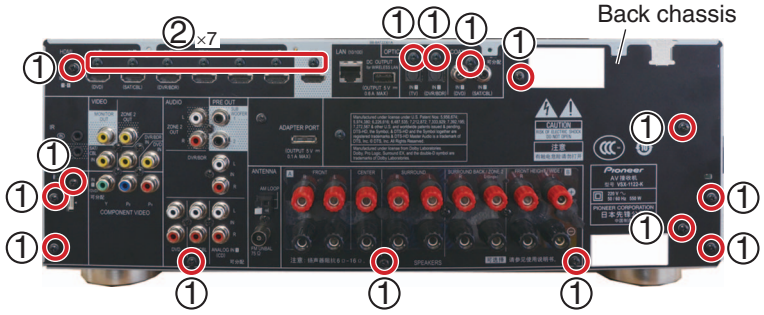


[4] MAIN Assy

Remove the cabinet by removing the 10 screws.

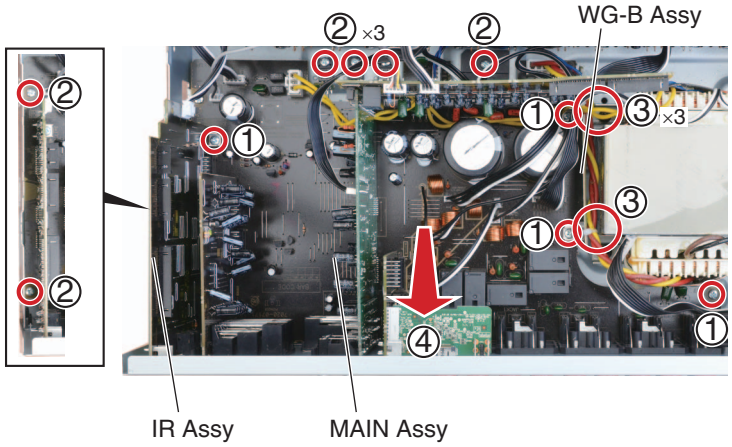
[4-1] Back chassis, D-MAIN Assy

(1) Remove the 15 screws. (BBT30P100FTB)
(2) Remove the seven screws. (BSZ30P040FTB)
(3) Remove the D-MAIN Assy.
(See procedure [3].)



[4-2] MAIN Assy

(1) Remove the four screws. (BBZ30P180FTC)
(2) Remove the six screws. (BBZ30P080FTC)
(3) Cut the four binders.
(4) Remove the MAIN Assy with back chassis.



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)
Other assemblies	➡	No adjustment required

Note:
Some parts on D-MAIN and F-USB Assemblies can not be replaced due to using heat-pad connection between the board.
Please refer to [1.2 NOTES ONREPLACING PARTS], when the parts listed in the table is defective, replace whole Assy.

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 Network Standby Data to be save upon the operation of protection circuit Standby Through setting	EVENT Ucom
Settings for HMG 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-1127_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].
   Note: The system cannot execute SAVE, LOAD until start is completed of BridgeCo.
4. Saving in the USB starts and the main device automatically goes off after the normal completion ([COMPLETE] is displayed.).
5. Remove the USB and saving is finished.

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

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

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

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

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

Precautions

- Files are stored in Root of USB memory.
- Files are read from Root of USB memory.
  ⇨ To make operations such as moving files, be sure to assign the saved file in Root of the USB memory. Also please be careful not to assign *.avr in multiple numbers.
- The time and date of updating for saved file is fixed to "2006/03/08 20:01."
- 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;

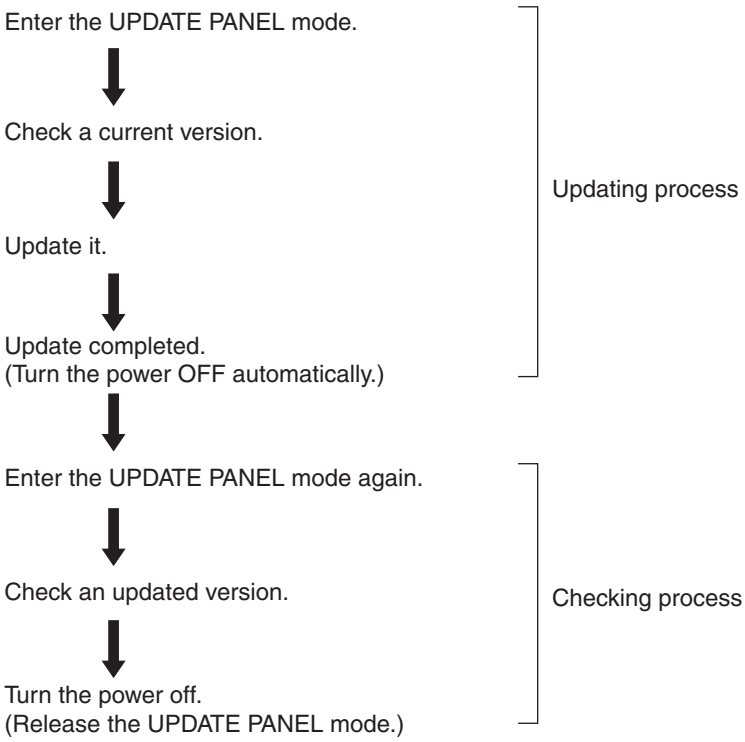
  Please be sure to check the HDMI control setting for the user before performing of factory default settings.
  Since the HDMI control setting of default settings is ON, turn OFF the HDMI control setting and Load after performing of factory default settings if the checked user setting is OFF.
  (If Load 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

Note:
In case of US models, [USB Backup] function is not implemented with the first firmware.
Before performing the backup function, please check the unit version. If small version number of Main com (EMMA) is smaller than 157, please update to the latest version.
If that is 157 or over (e.g. [1-157076014091]), the backup function is implemented.

8.3 UPDATING OF THE FIRMWARE

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.

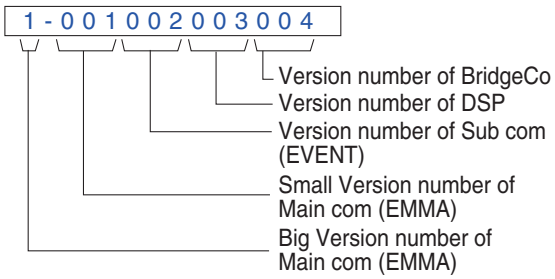
[Procedure]

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.

Key operation	FL display
[TUNE↑] + [STANDBY ON/OFF]	
↓	POWER ON
Booting is completed	
↓	Version is displayed.
	1-0010020003004
[TUNE↓] or [TUNE↑]	
[↓] [↑]	
	Update Menu
	UPDATE

Front Panel Key

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



Do not do time-out during update panel indication.
It takes about 45 seconds till version of the BridgeCo is displayed.
Meanwhile, version of the BridgeCo is displayed with ***.

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

Key operation	FL display
UPDATE FILE searching completed	
↓	Updating process ＊Ｕｐｄａｔｉｎｇ．　０％
UPDATE start	
↓	
UPDATE completed	
↓	Update completion display ＊Ｕｐｄａｔｉｎｇ．　１００％
5 Second	
↓	
Power turns off automatically. (All ZONE OFF) Disconnect the USB MEMORY.	

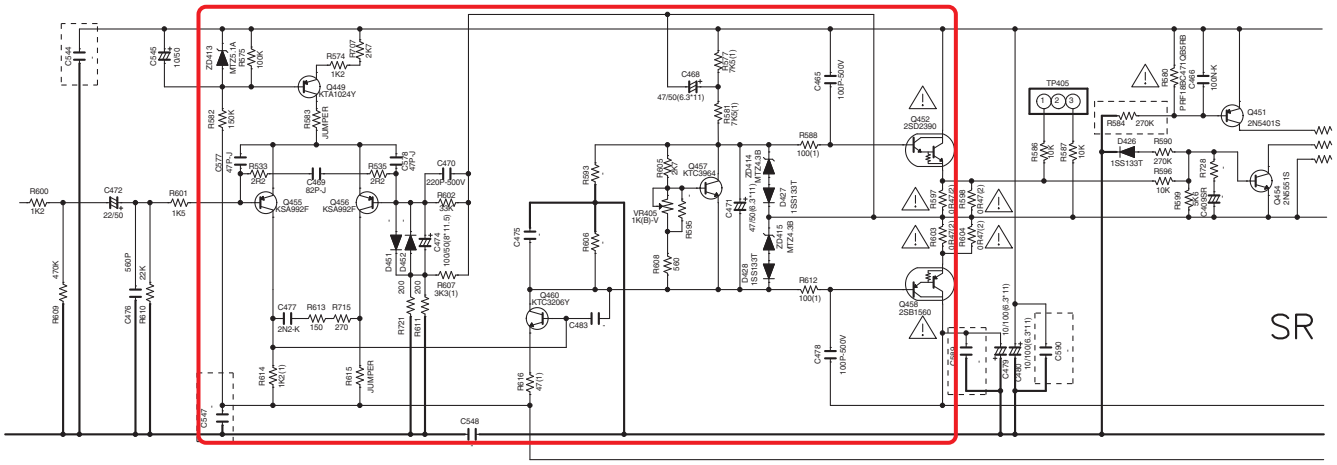
Update time is fluctuated by contents of the update. It will take about 26 minutes at the maximum.
(Actual time is from 3 minutes to 26 minutes.)
Time required for updating varies, because only the programs that require updating will be updated.

[Confirmation]

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

8.4 IDLE CURRENT ADJUSTMENT

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.

B AMP7 ASSY **SIDE A**

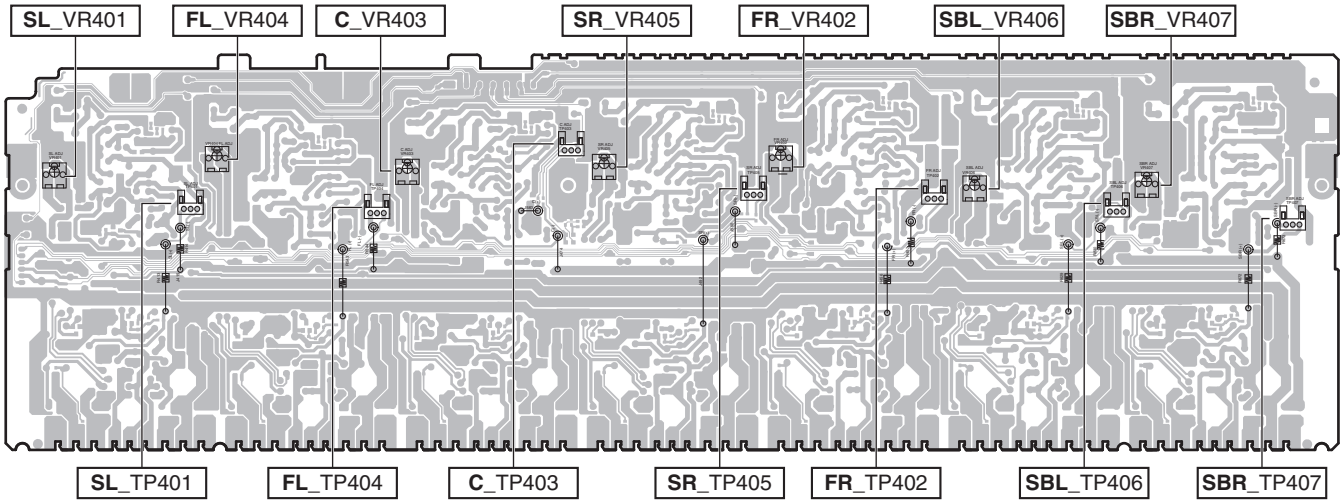


Fig.1

A

B

C

D

E

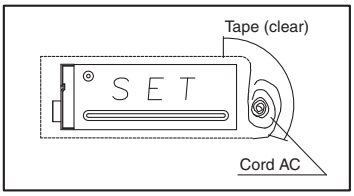
F

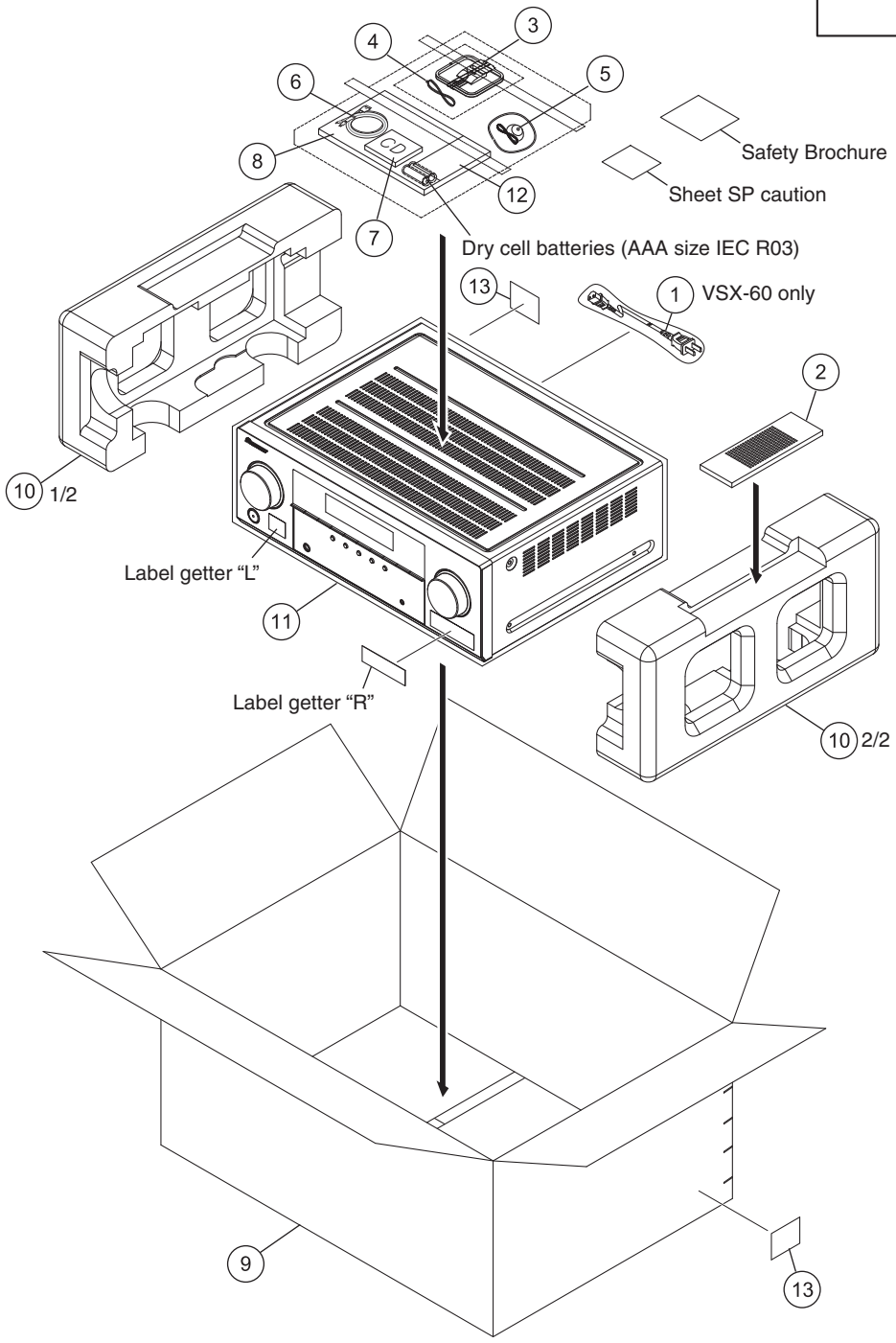
9. EXPLODED VIEWS AND PARTS LIST

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

Poly bag packing style





(1) PACKING SECTION PARTS LIST

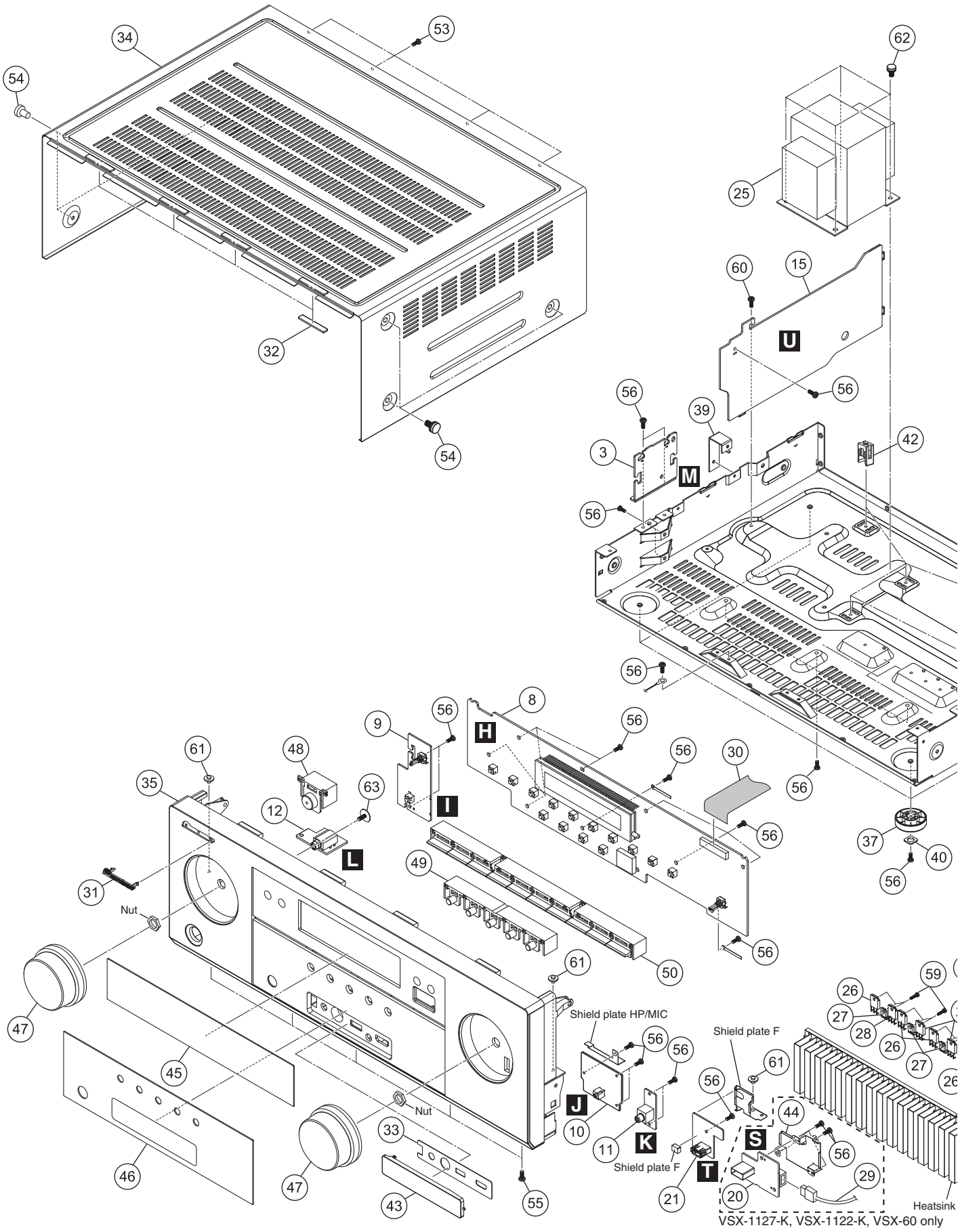
Mark	No.	Description	Part No.
⚠	1	Power Cord	See Contrast table (2)
	2	Remote Control	8300766400010-IL
	3	AM Loop Antenna	E601019000010-IL
	4	FM Wire Antenna	E605010140010-IL
	5	Microphone (for Auto MCACC setup)	APM7010
	6	iPod Cable	L308102013030-IL
	7	Operating Instructions (CD-ROM)	See Contrast table (2)
	8	Quick Start Guide	See Contrast table (2)
	9	Box, Gift	See Contrast table (2)
	10	Cushion, Snow	6230212914000-IL
	11	PE, Sheet	6327040059000-IL
NSP	12	Warranty Sheet	See Contrast table (2)
NSP	13	Label	VRW1629

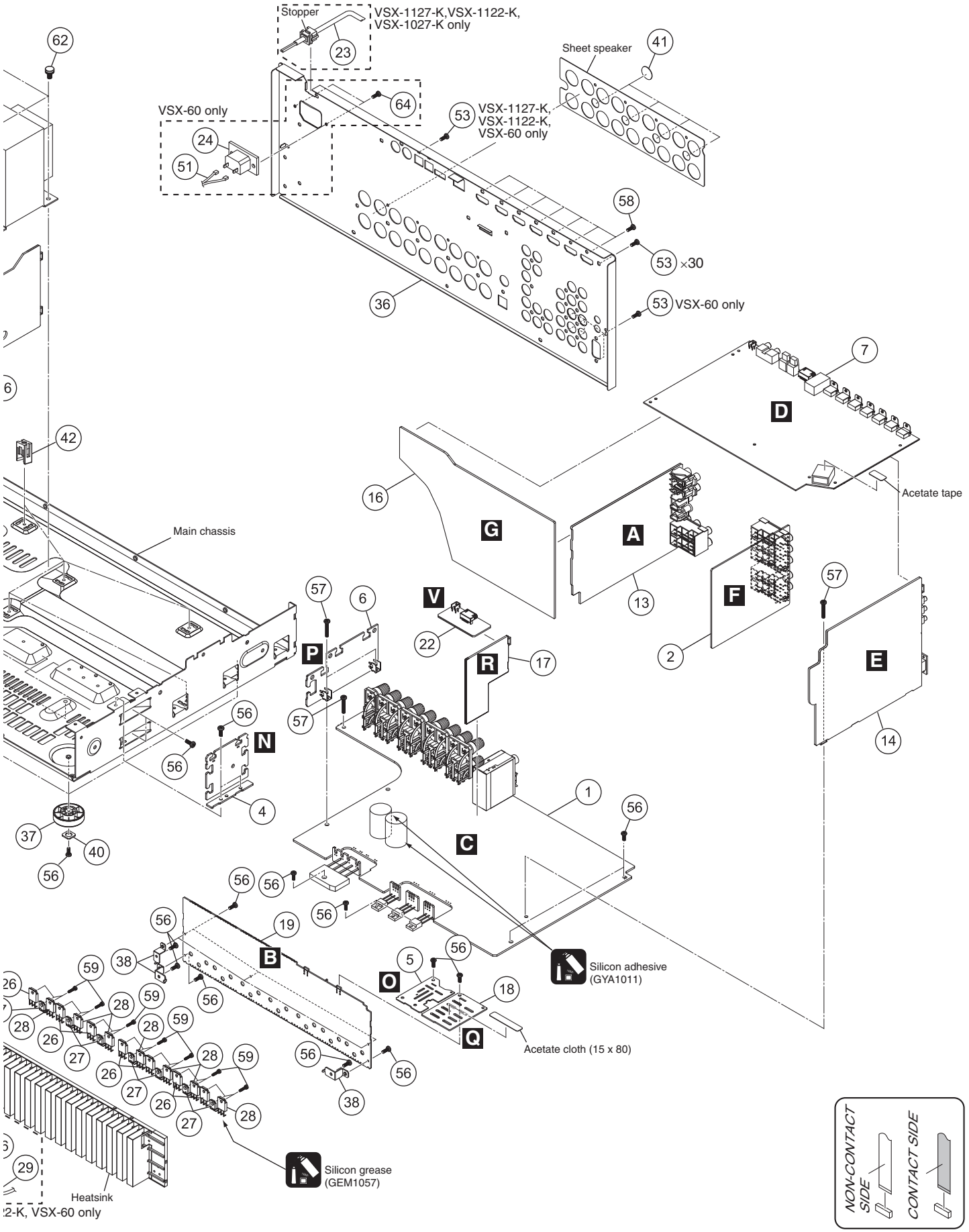
(2) CONTRAST TABLE

VSX-1127-K/CUXE, VSX-1122-K/CUXESM, VSX-60/UXECB and VSX-1027-K/CUXE are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-1127-K /CUXE	VSX-1122-K /CUXESM	VSX-60 /UXECB	VSX-1027-K /CUXE
⚠	1	Power Cord	Not used	Not used	L068125130010-IL	Not used
	7	Operating Instructions (CD-ROM)	6517000000550-IL	6517000000540-IL	6517000000560-IL	6517000000550-IL
	8	Quick Start Guide	5707000006590-IL	5707000006580-IL	5707000006600-IL	5707000006590-IL
	9	Box, Gift	6007211820110-IL	6007211820100-IL	6007211820120-IL	6007211820150-IL
NSP	12	Warranty Sheet	ARY7156	ARY7156	ARY7007	ARY7156

9.2 EXTERIOR SECION




Stopper
VSX-1127-K,VSX-1122-K,
VSX-1027-K only
Sheet speaker
VSX-60 only
VSX-1127-K,
VSX-1122-K,
VSX-60 only
×30
VSX-60 only
Acetate tape
Main chassis
Silicon adhesive
(GYA1011)
Acetate cloth (15 x 80)
Silicon grease
(GEM1057)
Heatsink
2-K, VSX-60 only
NON-CONTACT SIDE
CONTACT SIDE

(1) EXTERIOR SECION SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	MAIN Assy	See Contrast table (2)
	2	VIDEO Assy	See Contrast table (2)
	3	G-L Assy	7028071713040-IL
	4	G-R Assy	7028071714040-IL
	5	WG-A Assy	7028071715040-IL
	6	WG-B Assy	7028071716040-IL
	7	D-MAIN Assy	See Contrast table (2)
	8	FRONT Assy	See Contrast table (2)
	9	POWER Assy	See Contrast table (2)
	10	MIC Assy	7028071723040-IL
	11	FVIDEO Assy	7028071724040-IL
	12	HP Assy	7028071725040-IL
	13	AUDIO Assy	See Contrast table (2)
	14	IR Assy	See Contrast table (2)
	15	SMPS Assy	See Contrast table (2)
	16	BRG Assy	See Contrast table (2)
	17	BTCNT Assy	7028071774040-IL
	18	CCG Assy	7028071775040-IL
	19	AMP7 Assy	7028071731040-IL
	20	FHDMI Assy	See Contrast table (2)
	21	F-USB Assy	7028071761020-IL
	22	BT Assy	7028070231010-IL
⚠	23	Cord Assy	See Contrast table (2)
⚠	24	Socket, power AC	See Contrast table (2)
⚠	25	Power Trans 1021U	8200960611050-IL
⚠	26	Transistor	J5011560Y0000-IL
⚠	27	Semi, TR/GE NPN 2SC	J502396400010-IL
⚠	28	Transistor	J5032390Y0000-IL
⚠	29	HDMI Conn-Cable	See Contrast table (2)
	30	Cable, Flat Card 1.0M	N711392412880-IL
	31	Pioneer Badge	See Contrast table (2)
	32	Sheet	1210210235000-IL
	33	F Input Sheet	See Contrast table (2)
	34	Cabinet	3007211846000-IL
	35	Front Panel	See Contrast table (2)
	36	Back Chassis	See Contrast table (2)
	37	Foot (PLS)	4000210391000-IL
	38	Bracket	4010056906010-IL
	39	Bracket SMPS	4010214886000-IL
	40	Cushion	4050211605000-IL
	41	Screw Cover	4050211745100-IL
	42	Support	4070001601010-IL
	43	Front Input Cover	4317215111030-IL
	44	Front HDMI Plate1122	See Contrast table (2)
	45	Window Display U	See Contrast table (2)

Mark	No.	Description	Part No.
	46	Window Lower	See Contrast table (2)
	47	Knob	5080212431000-IL
	48	Button	See Contrast table (2)
	49	5 Key Button	5090214561000-IL
	50	10 Key Button	5090214571000-IL
	51	CN, Wire	See Contrast table (2)
	52	•••••	
	53	Screw	BBT30P100FTB
	54	Screw	BBT40P080FTB
	55	Screw	BBZ30P080FTB
	56	Screw	BBZ30P080FTC
	57	Screw	BBZ30P180FTC
	58	Screw	BSZ30P040FTB
	59	Screw Tapping Assy	B018230141H11-IL
	60	Screw, Tap Tite	B020230063B10-IL
	61	Screw, Tap Tite	1500001206010-IL
	62	Screw	B028940101B11-IL
	63	Screw	1500001456010-IL
	64	Screw	See Contrast table (2)

(2) CONTRAST TABLE

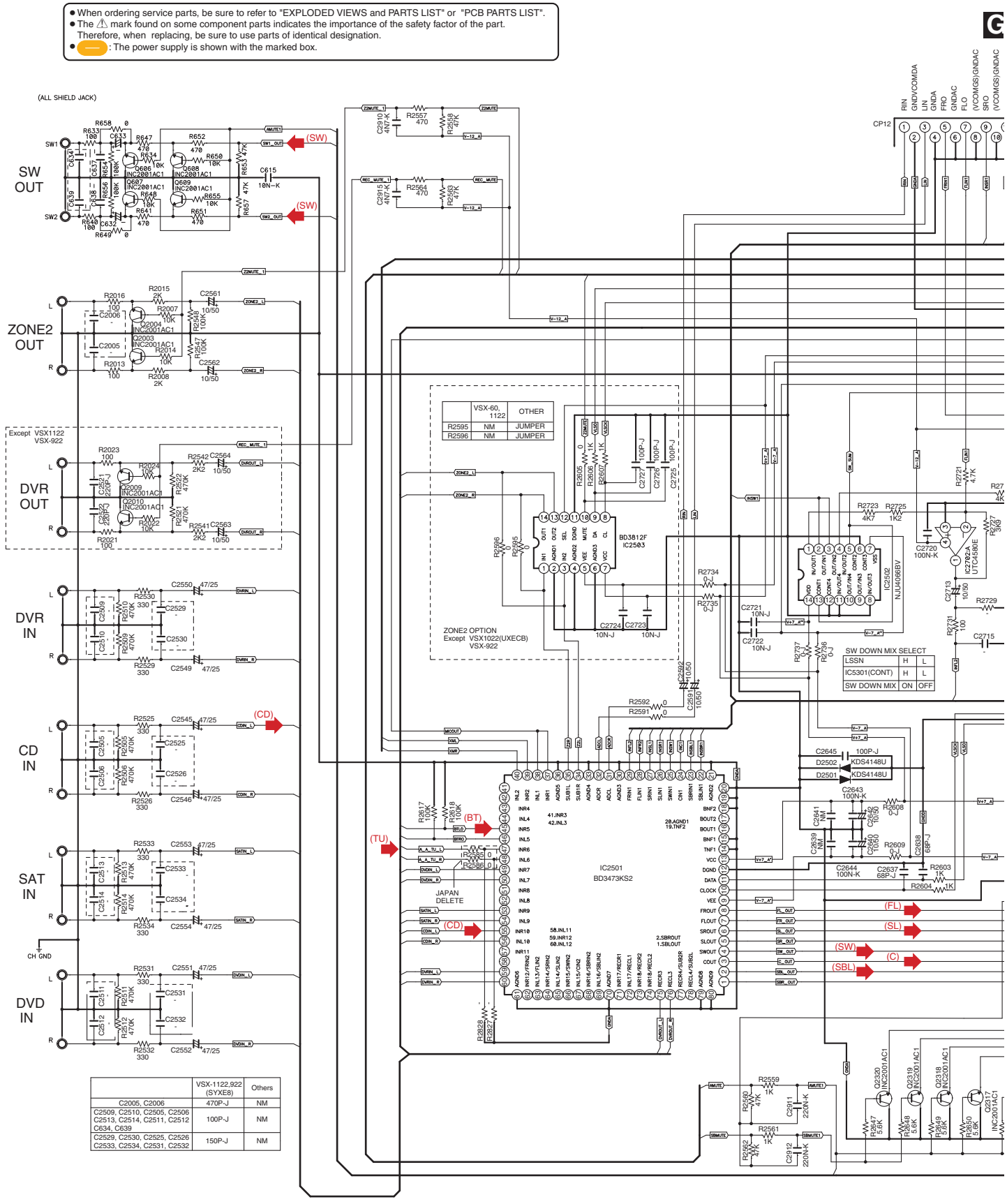
VSX-1127-K/CUXE, VSX-1122-K/CUXESM, VSX-60/UXECB and VSX-1027-K/CUXE are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-1127-K /CUXE	VSX-1122-K /CUXESM	VSX-60 /UXECB	VSX-1027-K /CUXE
	1	MAIN Assy	7028071711010-IL	7028071711010-IL	7028071711040-IL	7028071711010-IL
	2	VIDEO Assy	7028071712020-IL	7028071712070-IL	7028071712040-IL	7028071712070-IL
	7	D-MAIN Assy	7028071752020-IL	7028071752040-IL	7028071752040-IL	7028071752070-IL
	8	FRONT Assy	7028071721050-IL	7028071721010-IL	7028071721040-IL	7028071721060-IL
	9	POWER Assy	7028071722010-IL	7028071722010-IL	7028071722040-IL	7028071722010-IL
	13	AUDIO Assy	7028071741050-IL	7028071741010-IL	7028071741040-IL	7028071741010-IL
	14	IR Assy	7028071771010-IL	7028071771010-IL	7028071771040-IL	7028071771010-IL
	15	SMPS Assy	7028071772010-IL	7028071772010-IL	7028071772040-IL	7028071772010-IL
	16	BRG Assy	7028071773040-IL	7028071773040-IL	7028071773040-IL	7028071773070-IL
	20	FHDMI Assy	7028071791040-IL	7028071791040-IL	7028071791040-IL	Not used
⚠	23	Cord Assy	L068125101710-IL	L068125101710-IL	Not used	L068125101710-IL
⚠	24	Socket, power AC	Not used	Not used	G430040560021-IL	Not used
	29	HDMI Conn-Cable	ADX7777	ADX7777	ADX7777	Not used
	31	Pioneer Badge	XAM3006	XAM3006	PAM1791	XAM3006
	33	F Input Sheet	1217211162040-IL	1217211162040-IL	1217211162050-IL	1217211792000-IL
	35	Front Panel	3067215111020-IL	3067215111010-IL	3067215121010-IL	3067215491000-IL
	36	Back Chassis	3207214216200S-IL	3207214216000S-IL	3207214216300S-IL	3207214206100S-IL
	44	Front HDMI Plate1122	4470212466000-IL	4470212466000-IL	4470212466000-IL	Not used
	45	Window Display U	5077213113040-IL	5077213113040-IL	5077213113050-IL	5077213113040-IL
	46	Window Lower	5077213123090-IL	5077213123090-IL	50772131230B0-IL	5077213123090-IL
	48	Button	5090213741100-IL	5090213741100-IL	5098214551000-IL	5090213741100-IL
	51	CN, Wire	Not used	Not used	L000800020220-IL	Not used
	64	Screw	Not used	Not used	CBZ30P080FTB	Not used

10. SCHEMATIC DIAGRAM

10.1 AUDIO ASSY

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

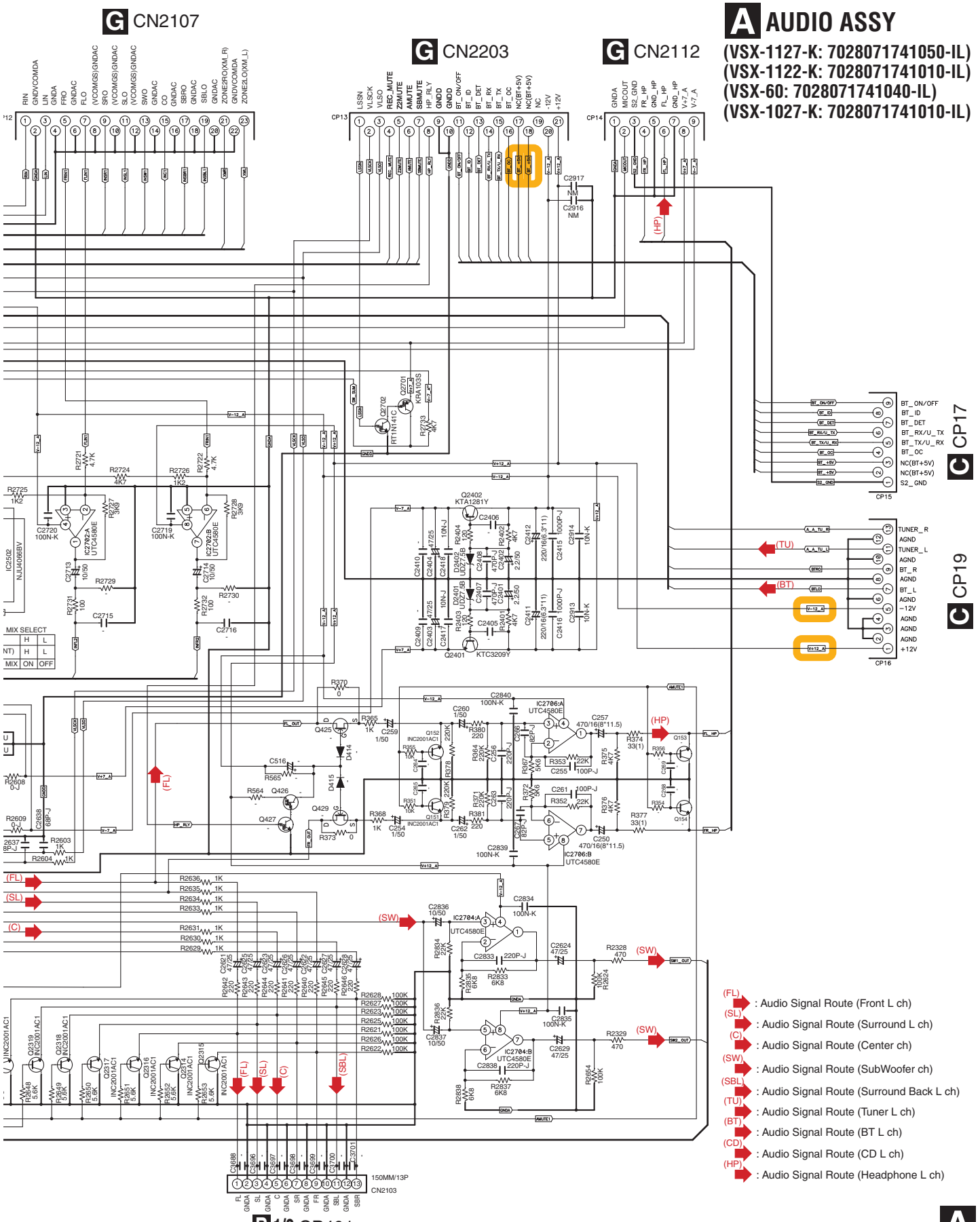


	VSX-60, 1122	OTHER
R2595	NM	JUMPER
R2596	NM	JUMPER

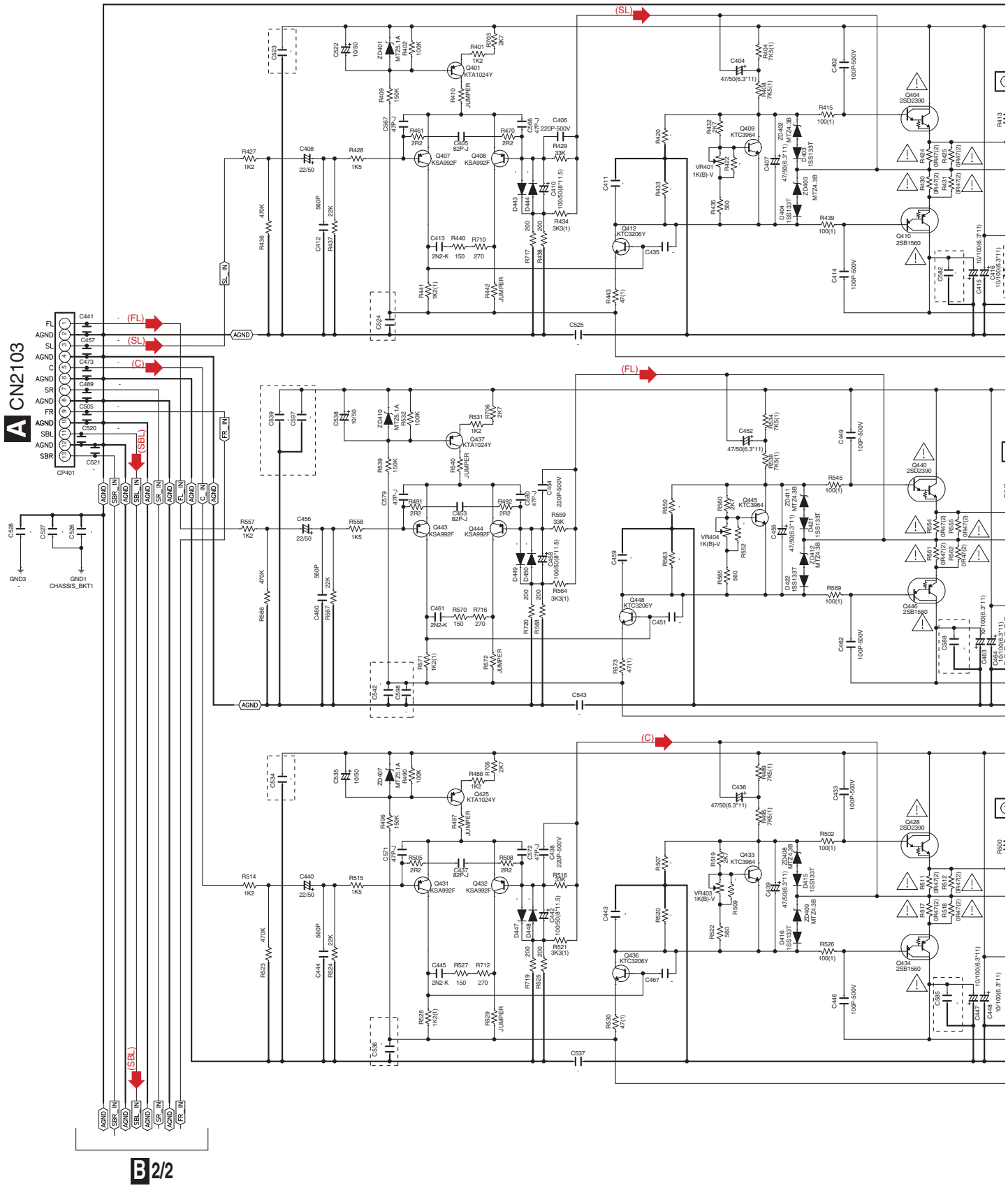
	VSX-1122,922 (SYXE8)	Others
C2005, C2006	470P-J	NM
C2509, C2510, C2505, C2506 C2513, C2514, C2511, C2512 C634, C639	100P-J	NM
C2529, C2530, C2525, C2526 C2533, C2534, C2531, C2532	150P-J	NM

A AUDIO ASSY

(VSX-1127-K: 7028071741050-IL)
(VSX-1122-K: 7028071741010-IL)
(VSX-60: 7028071741040-IL)
(VSX-1027-K: 7028071741010-IL)



10.2 AMP7 ASSY (1/2)



B 1/2 AMP7 ASSY (7028071731040-IL)

(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)

SL

FL

C

	HIGH(ETC)	HIGH(UKCN)
R411	150K	270K
R541	150K	270K
R498	150K	270K

TEST OPTION

LOW : TO CPU B'D (5P)

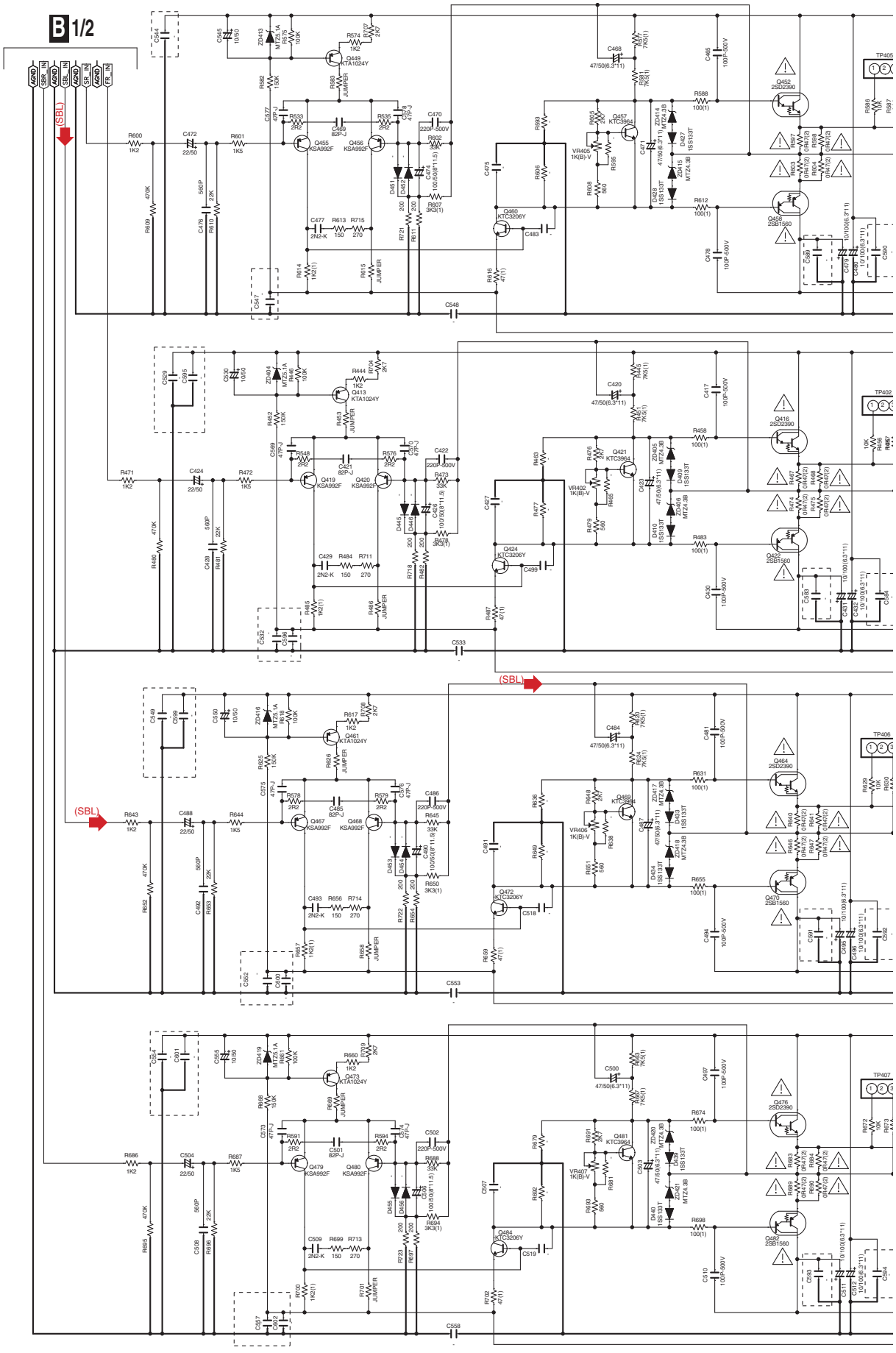
	LOW	HIGH
R736	OPEN	10K
R735	OPEN	10K

NOTES
1. Resistor values are indicated in ohms unless otherwise specified [k = 1.000 m = 1.000.000]
2. Capacitor values are indicated in microfarades unless otherwise specified. [p = micro-microfarades]
3. : These resistor are to be segregated from printed wiring board or other acessible parts.
CAUTION
Safety precaution to be followed during servicing
1] Since those parts marked with are critical parts for safety. use only the one described in the parts list
2] Before returning the set to the customer make appropriate leakage current or resistance measurements to determine the exposed parts are prorerly insulated from the supply circuit.

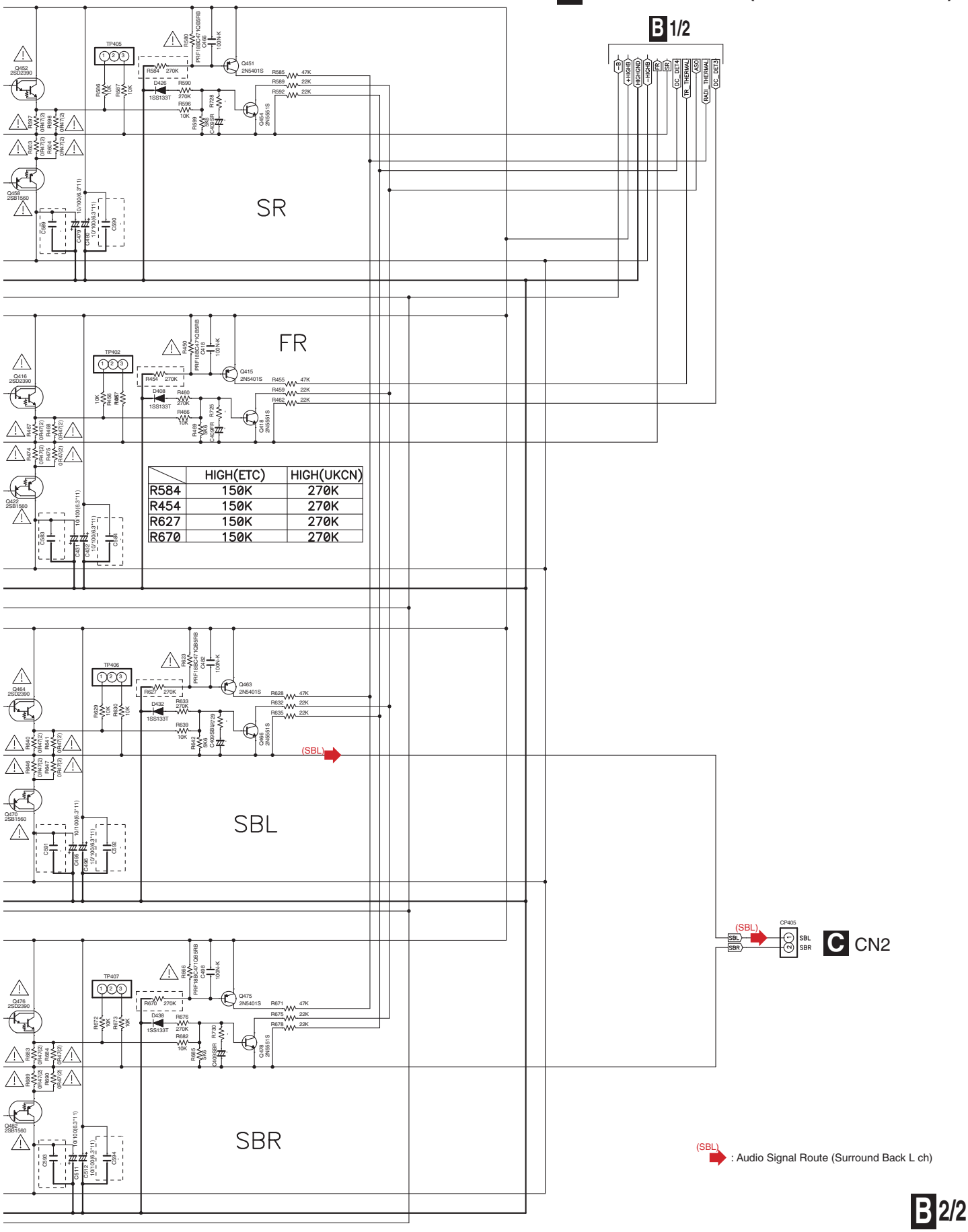
B 2/2

B 1/2

10.3 AMP7 ASSY (2/2)

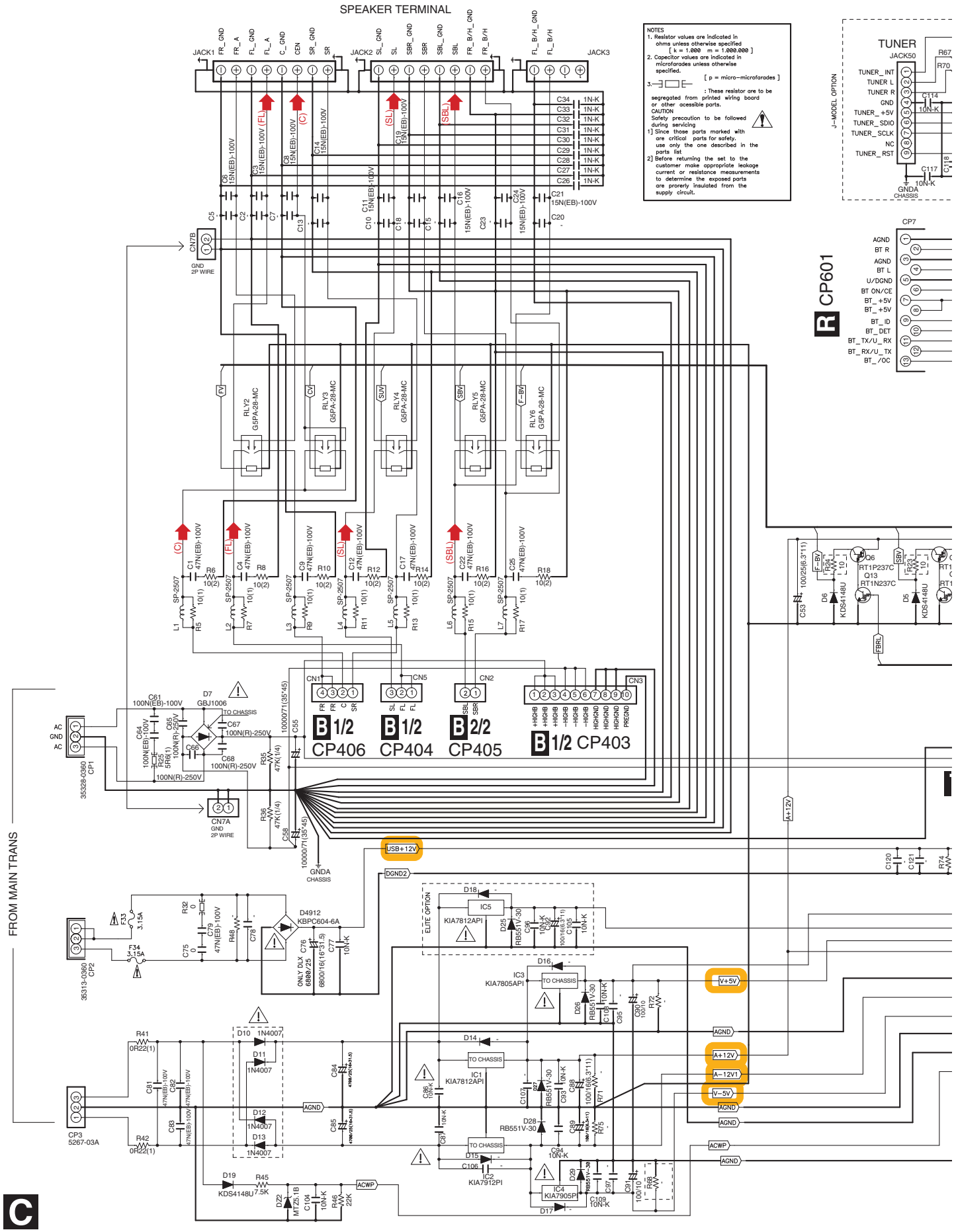


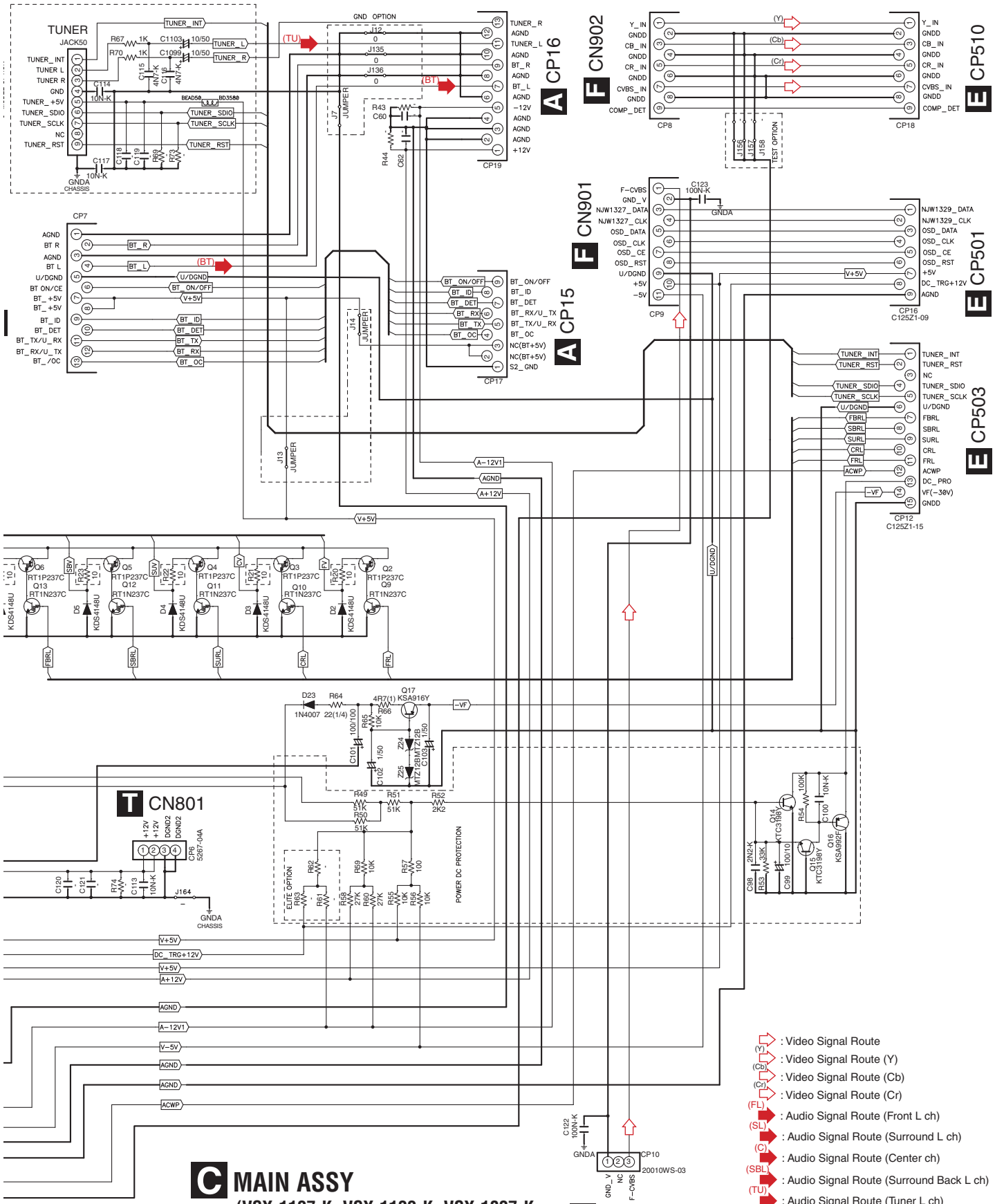
B 2/2 AMP7 ASSY (7028071731040-IL)



	HIGH(ETC)	HIGH(UKCN)
R584	150K	270K
R454	150K	270K
R627	150K	270K
R670	150K	270K

10.4 MAIN ASSY

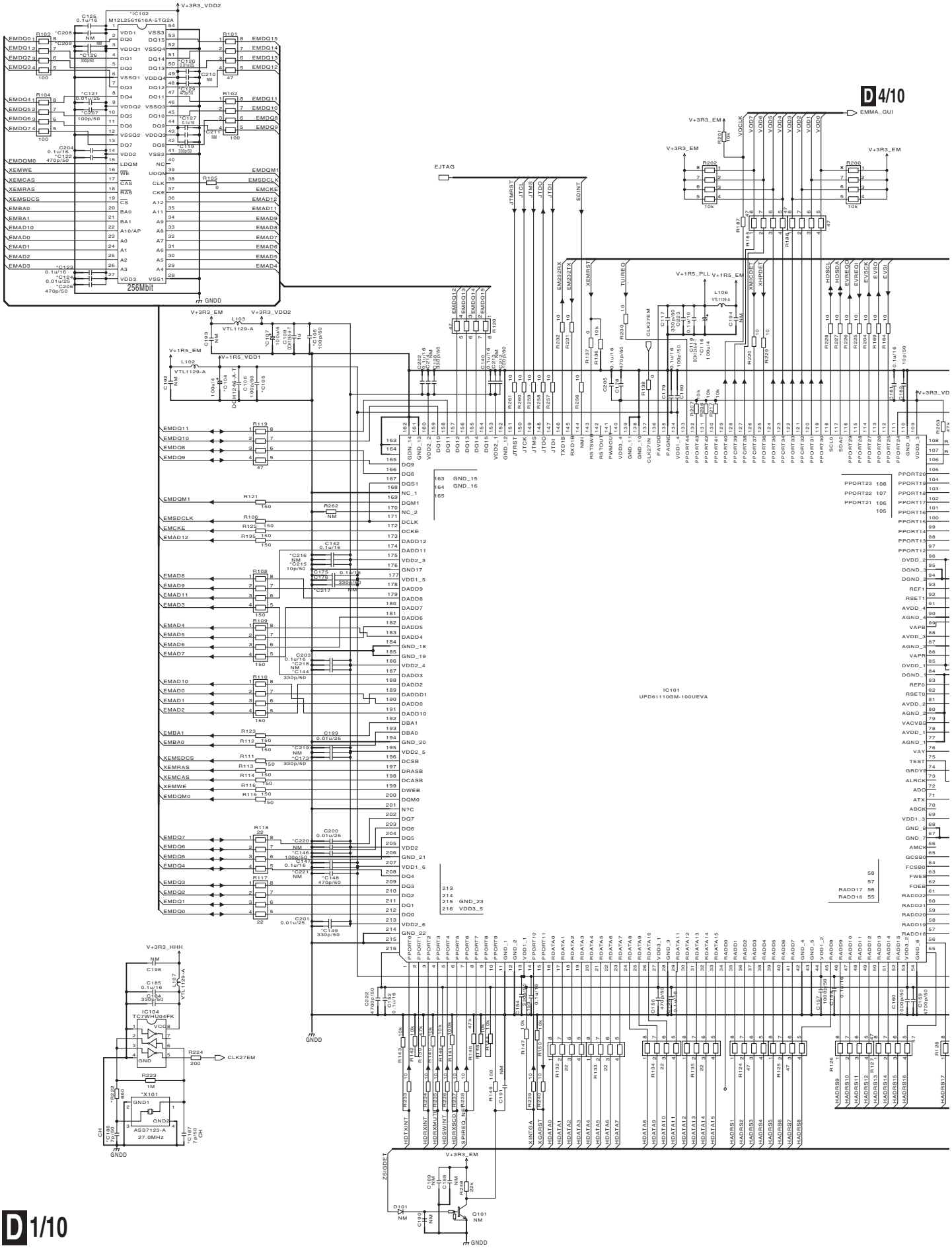




C MAIN ASSY

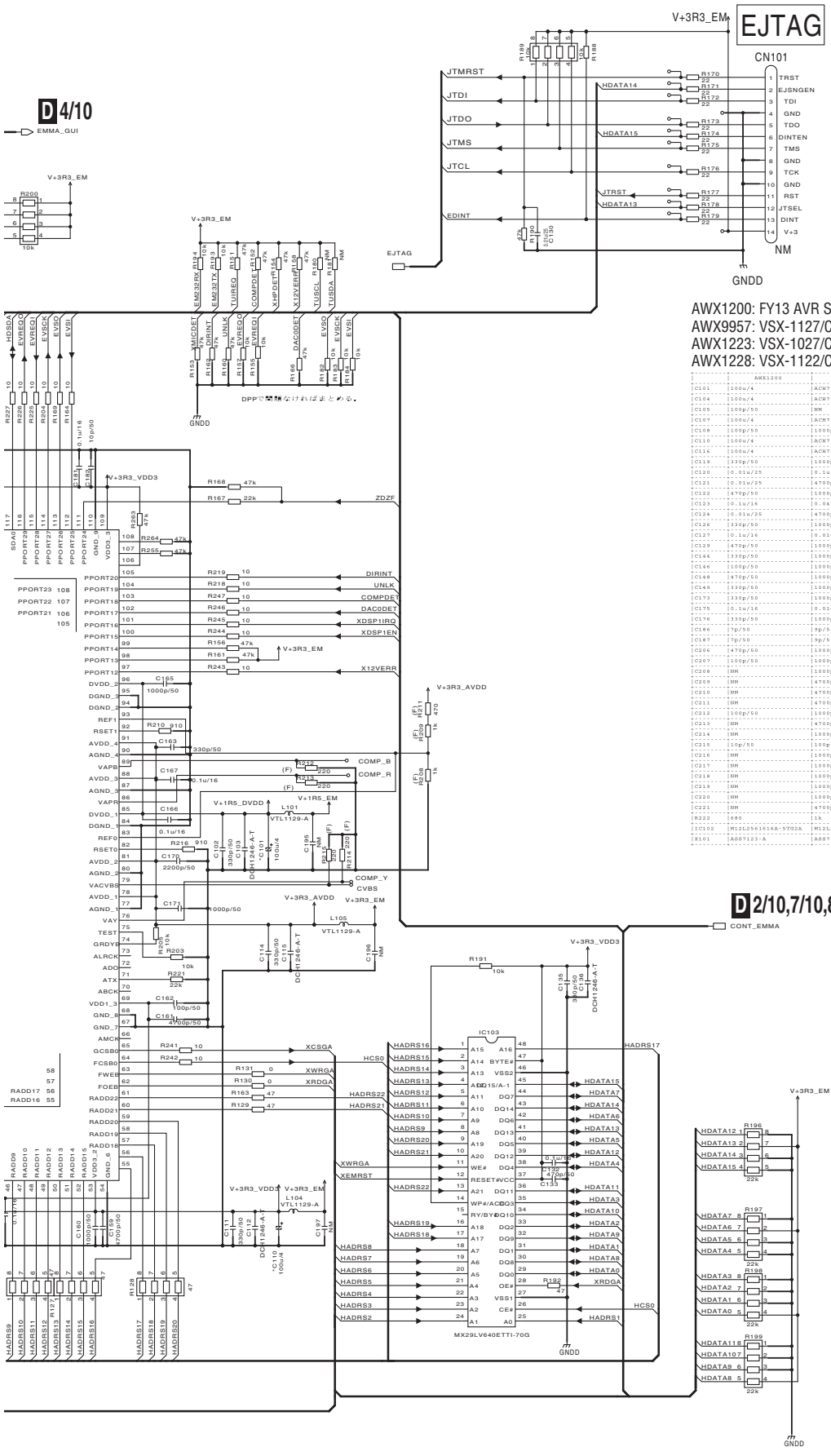
(VSX-1127-K, VSX-1122-K, VSX-1027-K : 7028071711010-IL)
(VSX-60: 7028071711040-IL)

10.5 D-MAIN ASSY (1/10)



D 1/10 D-MAIN ASSY

(VSX-1127-K: 7028071752020-IL)
(VSX-1122-K: 7028071752040-IL)
(VSX-60: 7028071752040-IL)
(VSX-1027-K: 7028071752070-IL)



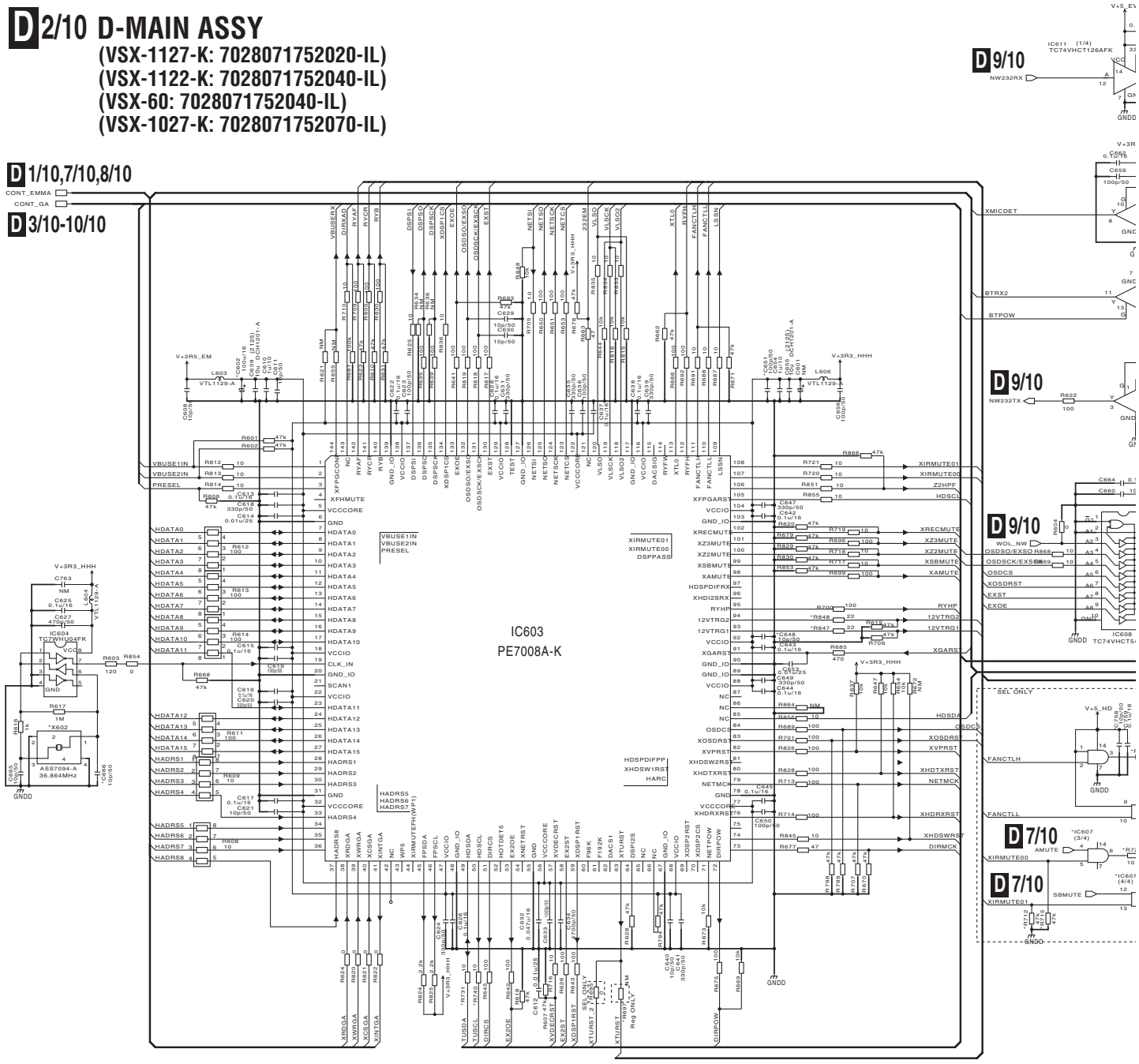
AWX1200: FY13 AVR SEL-LOW
AWX9957: VSX-1127/CU,VSX-1122/SY,/DL
AWX1223: VSX-1027/CU,VSX-922/SY,/F,/DL,/PW,/A,VSA-922/J
AWX1228: VSX-1122/CU,VSX-60/U

	AWX1200	AWX9957	AWX1223	AWX1228
C101	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C104	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C105	100p/50	NM	NM	NM
C107	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C108	1000p/50	1000p/50	1000p/50	1000p/50
C110	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C116	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C119	330p/50	1000p/50	1000p/50	1000p/50
C120	0.01u/25	0.1u/16	0.1u/16	0.1u/16
C121	0.01u/25	4700p/50	4700p/50	4700p/50
C122	470p/50	1000p/50	1000p/50	1000p/50
C123	0.1u/16	0.047u/16	0.047u/16	0.047u/16
C124	0.01u/25	4700p/50	4700p/50	4700p/50
C126	330p/50	1000p/50	1000p/50	1000p/50
C127	0.1u/16	0.01u/25	0.01u/25	0.01u/25
C129	470p/50	1000p/50	1000p/50	1000p/50
C144	330p/50	1000p/50	1000p/50	1000p/50
C146	1000p/50	1000p/50	1000p/50	1000p/50
C148	470p/50	1000p/50	1000p/50	1000p/50
C149	330p/50	1000p/50	1000p/50	1000p/50
C173	330p/50	1000p/50	1000p/50	1000p/50
C175	0.1u/16	0.01u/25	0.01u/25	0.01u/25
C176	330p/50	1000p/50	1000p/50	1000p/50
C186	7p/50	9p/50	9p/50	9p/50
C187	7p/50	9p/50	9p/50	9p/50
C206	470p/50	1000p/50	1000p/50	1000p/50
C207	100p/50	1000p/50	1000p/50	1000p/50
C208	NM	1000p/50	1000p/50	1000p/50
C209	NM	4700p/50	4700p/50	4700p/50
C210	NM	4700p/50	4700p/50	4700p/50
C211	NM	4700p/50	4700p/50	4700p/50
C212	100p/50	1000p/50	1000p/50	1000p/50
C213	NM	4700p/50	4700p/50	4700p/50
C214	NM	1000p/50	1000p/50	1000p/50
C215	10p/50	100p/50	100p/50	100p/50
C216	NM	1000p/50	1000p/50	1000p/50
C217	NM	1000p/50	1000p/50	1000p/50
C218	NM	1000p/50	1000p/50	1000p/50
C219	NM	1000p/50	1000p/50	1000p/50
C220	NM	1000p/50	1000p/50	1000p/50
C221	NM	4700p/50	4700p/50	4700p/50
R222	680	1k	1k	1k
IC102	M12L2561616A-5TG2A	M12L2561616A-5TG2A	M12L2561616A-5TG2A	M12L2561616A-5TG2A
X101	A887123-A	A887106-1	A887106-1	A887106-1

10.6 D-MAIN ASSY (2/10)

D 2/10 D-MAIN ASSY

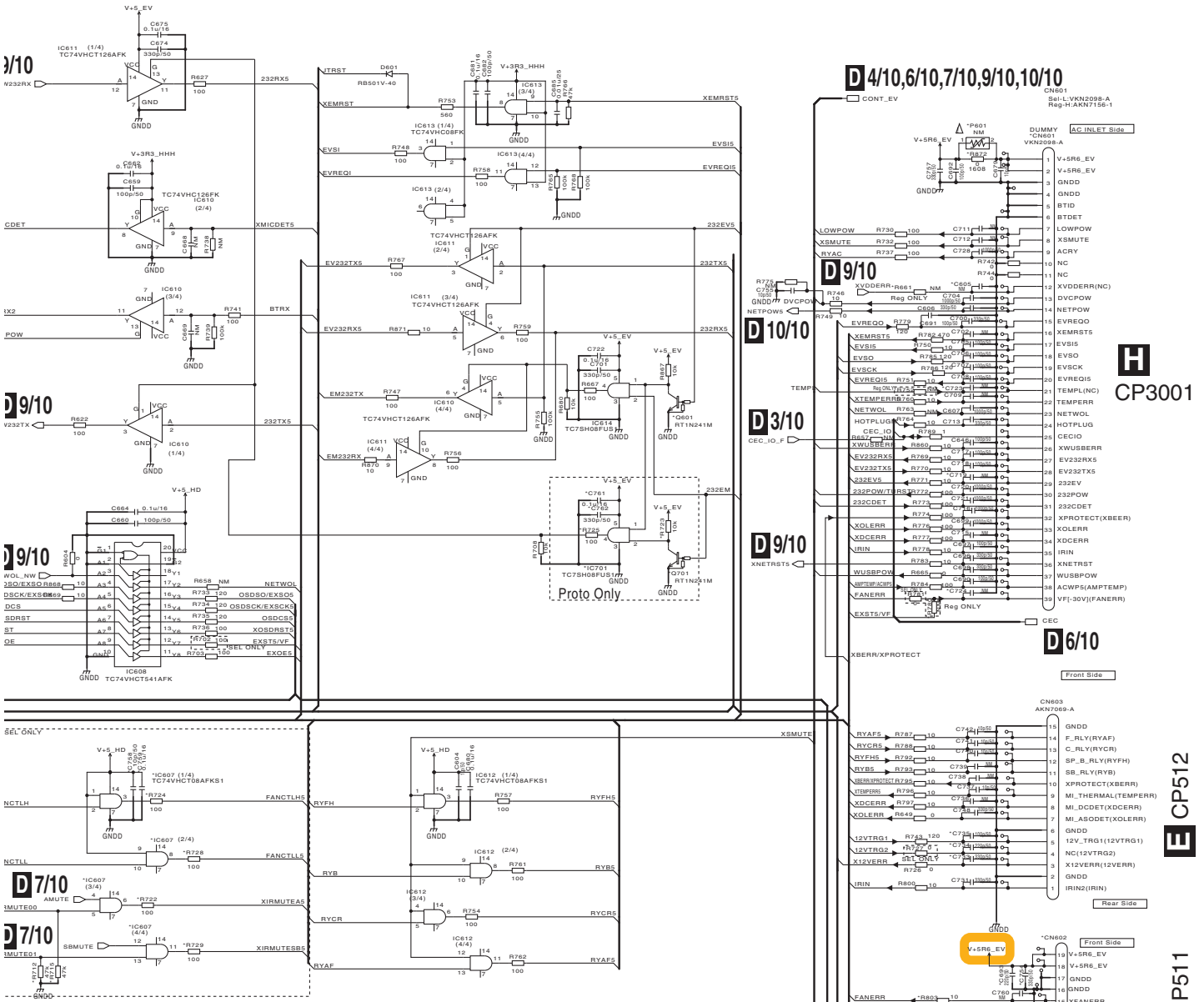
(VSX-1127-K: 7028071752020-IL)
(VSX-1122-K: 7028071752040-IL)
(VSX-60: 7028071752040-IL)
(VSX-1027-K: 7028071752070-IL)



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

⚠ 印の部品は、指定部品（安全規格適合部品）を必ず使用すること。

	AWX1200	AWX3957	AWX1223
C602	100u/16	ACH7337-1	ACH7337-1
C640	10p/50	330p/50	330p/50
C651	100p/50	NM	NM
C666	10p/50	12p/50	12p/50
C758	10p/50	NM	NM
C769	0.1u/16	NM	NM
R695	0	NM	NM
R697	NM	0	0
R702	100	NM	NM
R712	47k	NM	NM
R715	47k	NM	NM
R722	100	NM	NM
R724	100	NM	NM
R728	100	NM	NM
R729	100	NM	NM
R731	10	10	10
R740	10	10	10
R847	22	10	10
R848	22	10	10
IC607	TC74VHCT08AFKG1	NM	NM
X602	ASS7094-A	ASS7107-1	ASS7107-1



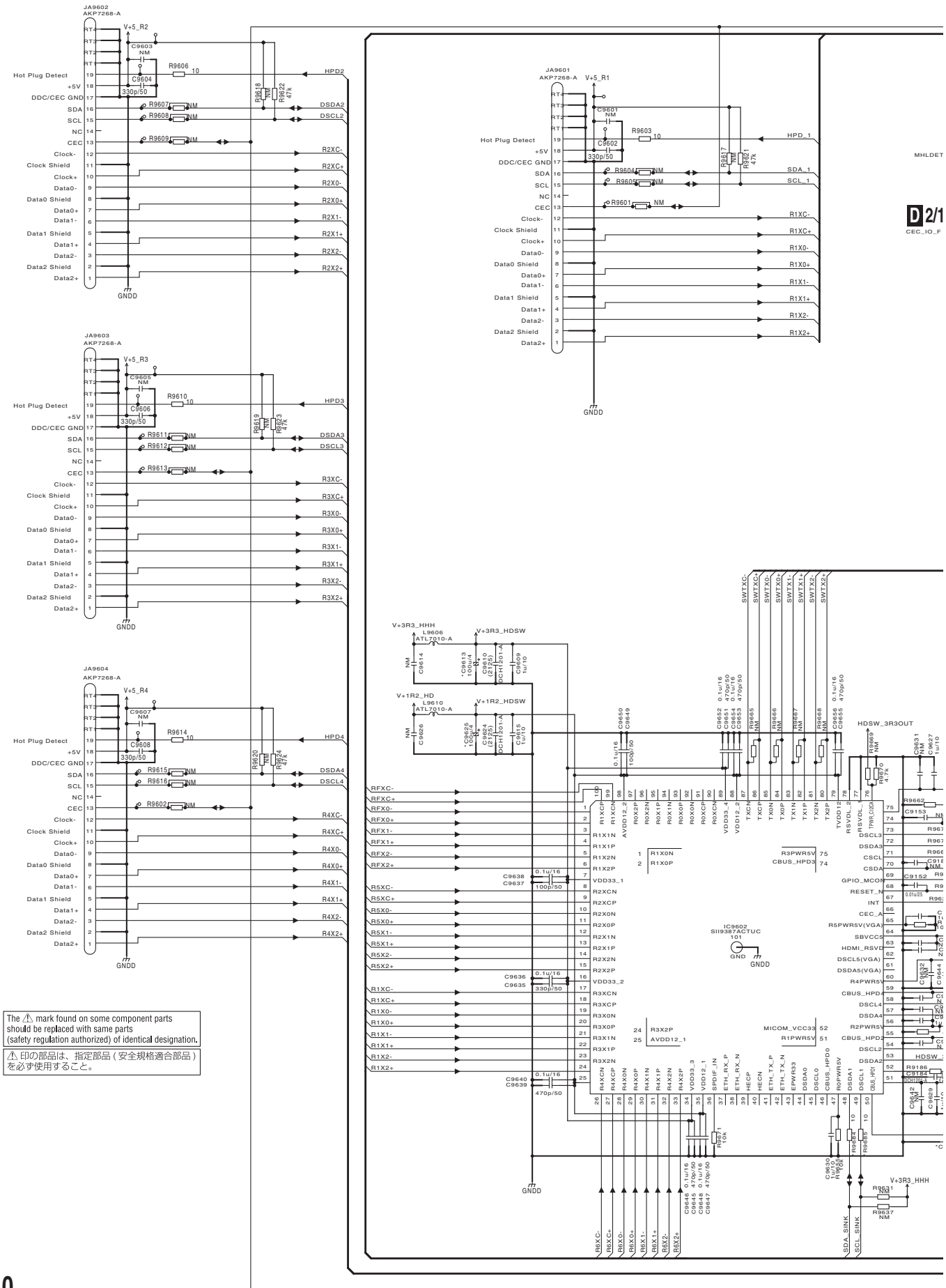
	AWX1200	AWX9957	AWX1223	AWX1228
C605	NM	1000p/50	1000p/50	1000p/50
C693	220p/50	NM	NM	NM
C719	NM	2200p/50	2200p/50	2200p/50
C723	NM	1000p/50	1000p/50	1000p/50
C724	NM	2200p/50	2200p/50	2200p/50
C733	330p/50	4700p/50	4700p/50	4700p/50
C734	220p/50	NM	NM	NM
C735	1000p/50	4700p/50	4700p/50	4700p/50
C746	100p/50	NM	NM	NM
C750	220p/50	NM	NM	NM
C751	1000p/50	NM	NM	NM
C752	1000p/50	NM	NM	NM
C753	330p/50	NM	NM	NM
C754	330p/50	NM	NM	NM
C756	330p/50	NM	NM	NM
C761	0.1u/16	NM	NM	NM
C762	330p/50	NM	NM	NM
R632	NM	0	0	0
R640	NM	0	0	0
R661	NM	0	0	0
R684	0	NM	NM	NM
R690	NM	0	0	0
R694	10	NM	NM	NM
R698	0	NM	NM	NM
R723	10K	NM	NM	NM
R725	100	NM	NM	NM
R727	0	NM	NM	NM
R752	NM	10	10	10
R780	NM	0	0	0
R781	0	NM	NM	NM
R803	10	NM	NM	NM
R804	10	NM	NM	NM
R805	10	NM	NM	NM
R806	10	NM	NM	NM
R807	10	NM	NM	NM
R808	10	NM	NM	NM
R811	NM	0	0	0
R872	10	NM	NM	NM
IC701	TC7SH08FU(E	NM	NM	NM
CN601	VXN2098-A	AKN7156-1	AKN7156-1	AKN7156-1
CN602	AKN7071-A	NM	NM	NM
CN607	NM	AKN7066-A	AKN7066-A	AKN7066-A
P601	NM	NANOSMDC035F	NANOSMDC035F	NANOSMDC035F
Q601	RT1N241M	DTC124EUA	DTC124EUA	DTC124EUA
Q701	RT1N241M	NM	NM	NM

	AWX9957	AWX1223	AWX1228
	ACM7337-1	ACM7337-1	ACM7337-1
	330p/50	330p/50	330p/50
	NM	NM	NM
	12p/50	12p/50	12p/50
	NM	NM	NM
	NM	NM	NM
	NM	NM	NM
	0	0	0
	NM	NM	NM
	NM	NM	NM
	NM	NM	NM
	NM	NM	NM
	NM	NM	NM
	NM	NM	NM
	NM	NM	NM
	NM	NM	NM
	10	10	10
	10	10	10
	10	10	10
	10	10	10
	NM	NM	NM
	AS97107-1	AS97107-1	AS97107-1

AWX1200: FY13 AVR SEL-LOW
AWX9957: VSX-1127/CU,VSX-1122/SY,/DL
AWX1223: VSX-1027/CU,VSX-922/SY,/F,/DL,/PW,/A,VSA-922/J
AWX1228: VSX-1122/CU,VSX-60/U

D 2/10

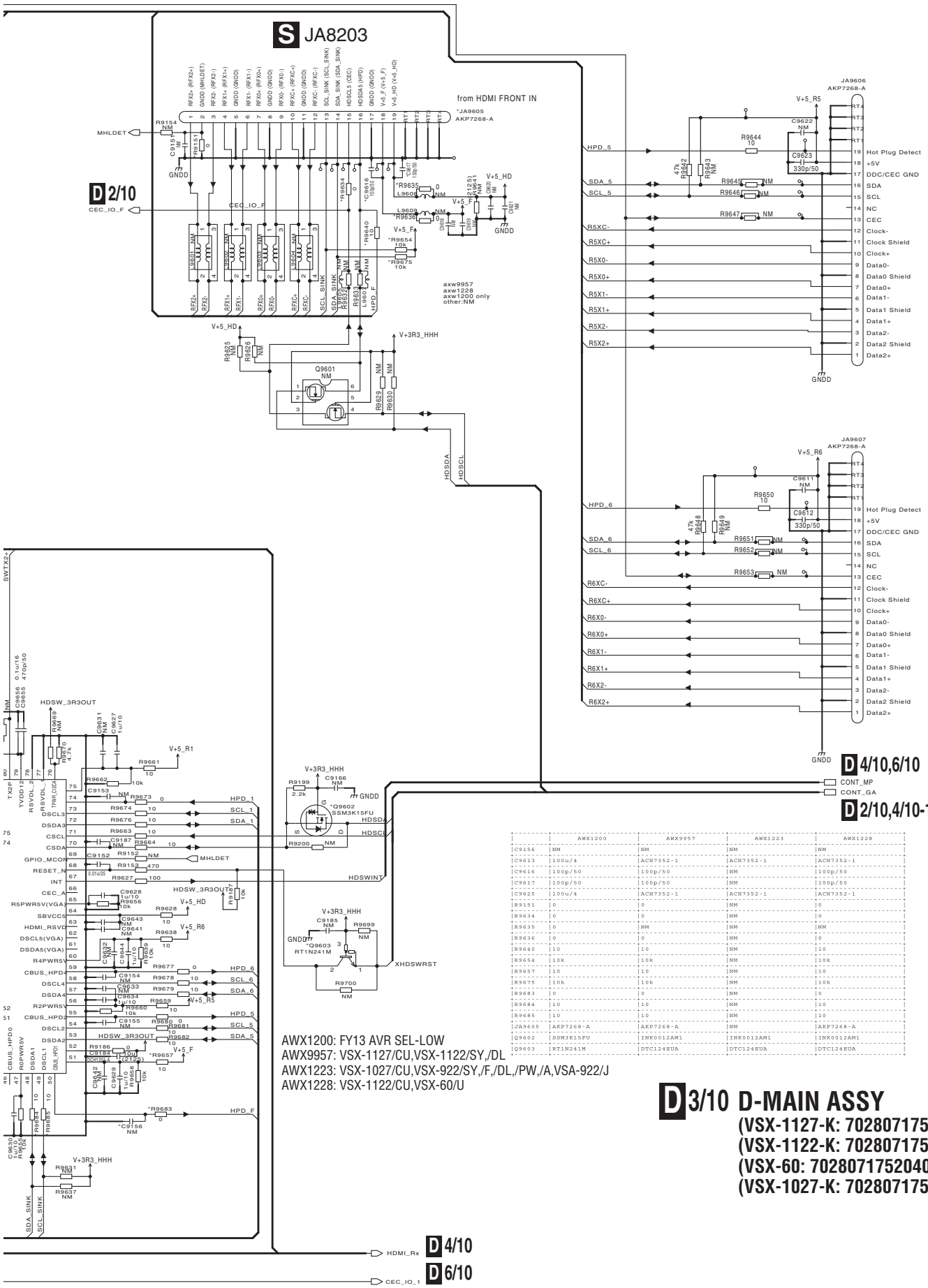
10.7 D-MAIN ASSY (3/10)



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

⚠ 印の部品は、指定部品 (安全規格適合部品) を必ず使用すること。

D 3/10



	AWX1200	AWX9957	AWX1223	AWX1228
C9156	NM	NM	NM	NM
C9613	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C9616	100p/50	100p/50	NM	100p/50
C9617	100p/50	100p/50	NM	100p/50
C9625	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
R9151	0	0	NM	0
R9634	0	0	NM	0
R9635	0	NM	NM	NM
R9636	0	0	NM	0
R9640	10	10	NM	10
R9654	10k	10k	NM	10k
R9657	10	10	NM	10
R9675	10k	10k	NM	10k
R9683	0	0	NM	0
R9684	10	10	NM	10
R9685	10	10	NM	10
JA9605	AKP7268-A	AKP7268-A	NM	AKP7268-A
Q9602	SSM3K15FU	INK0012AM1	INK0012AM1	INK0012AM1
Q9603	RT1N241M	DTC124EUA	DTC124EUA	DTC124EUA

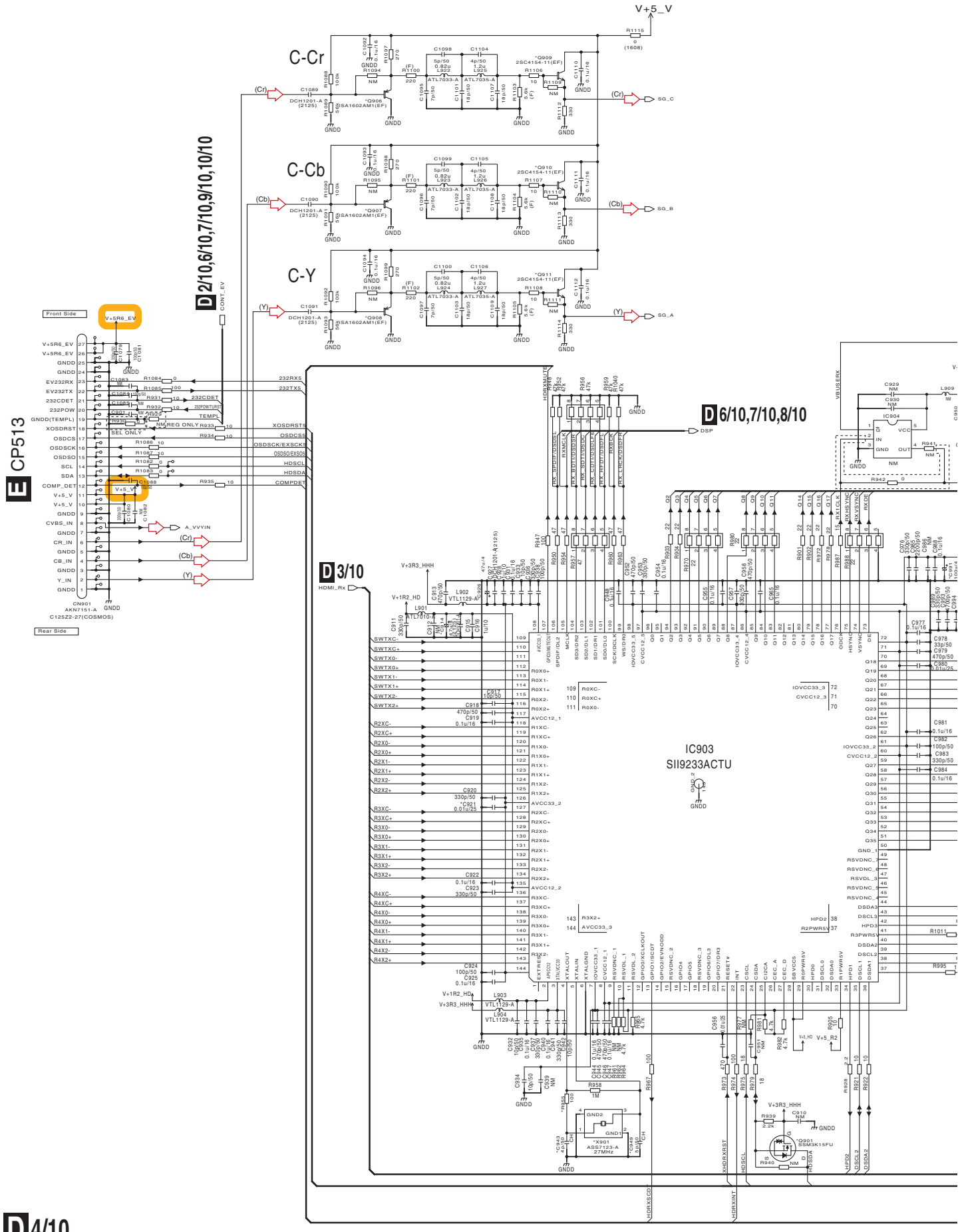
AWX1200: FY13 AVR SEL-LOW
AWX9957: VSX-1127/CU,VSX-1122/SY,/DL
AWX1223: VSX-1027/CU,VSX-922/SY,/F,/DL,/PW,/A,VSA-922/J
AWX1228: VSX-1122/CU,VSX-60/U

D 3/10 D-MAIN ASSY

(VSX-1127-K: 7028071752020-IL)
(VSX-1122-K: 7028071752040-IL)
(VSX-60: 7028071752040-IL)
(VSX-1027-K: 7028071752070-IL)

D 3/10

10.8 D-MAIN ASSY (4/10)



D 4/10

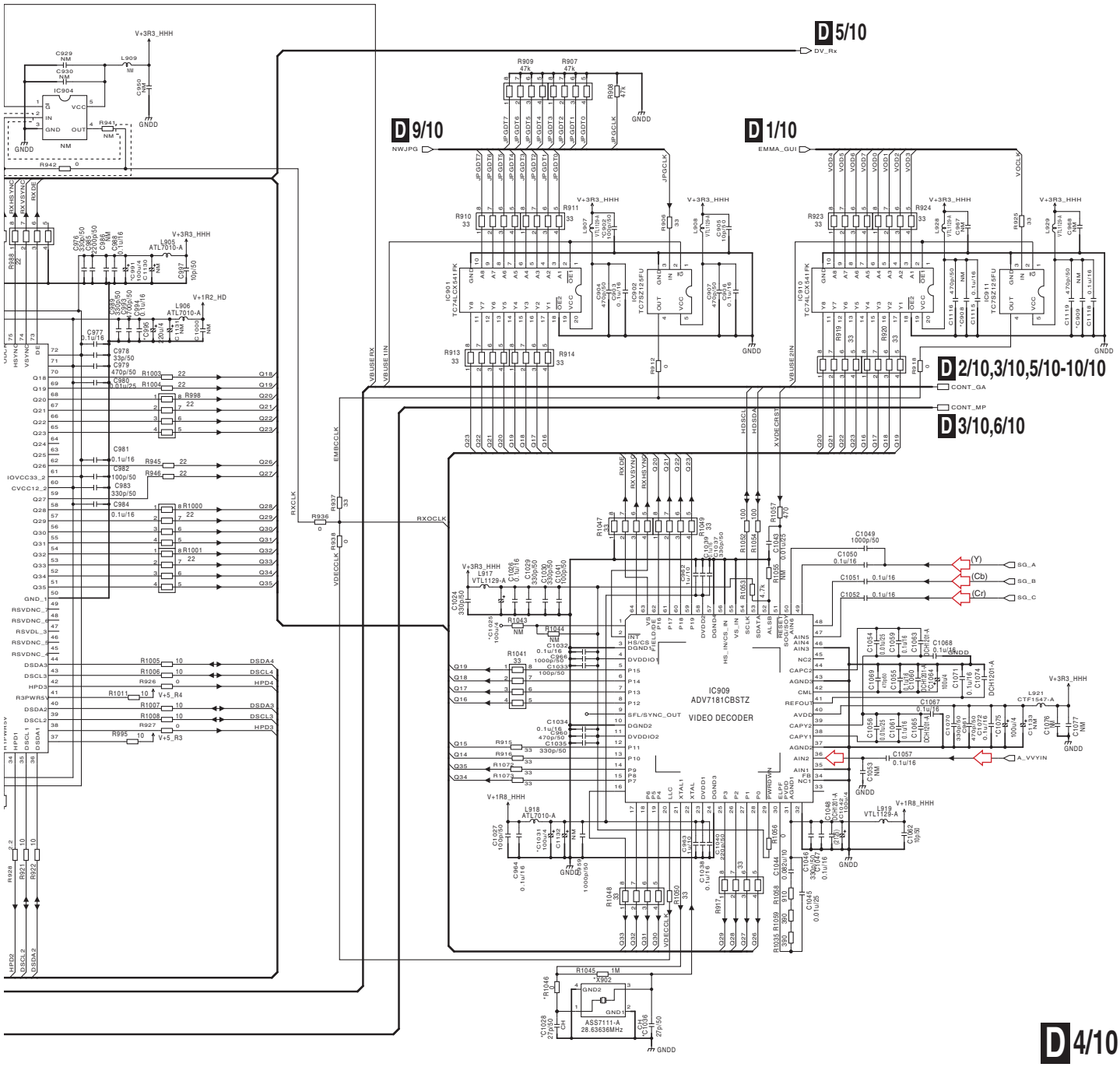
AWX1200: FY13 AVR SEL-LOW
AWX9957: VSX-1127/CU,VSX-1122/SY,/DL
AWX1223: VSX-1027/CU,VSX-922/SY,/F,/DL,/PW,/A,VSA-922/J
AWX1228: VSX-1122/CU,VSX-60/U

	AWX1200	AWX9957	AWX1223	AWX1228
C902	100p/50	NM	NM	NM
C908	NM	4700p/50	4700p/50	4700p/50
C909	NM	4700p/50	4700p/50	4700p/50
C914	47u/4	ACH7350-1	ACH7350-1	ACH7350-1
C921	0.01u/25	0.1u/16	0.1u/16	0.1u/16
C926	47u/4	ACH7350-1	ACH7350-1	ACH7350-1
C943	4p/50	7p/50	7p/50	7p/50
C949	5p/50	7p/50	7p/50	7p/50
C991	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C995	220u/4	ACH7354-1	ACH7354-1	ACH7354-1
C1025	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C1028	27p/50	8p/50	8p/50	8p/50
C1031	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C1036	27p/50	8p/50	8p/50	8p/50
C1042	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C1064	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C1075	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
R929	NM	0	0	0
R930	0	NM	NM	NM
R955	100	470	470	470
R1046	0	1k	1k	1k
Q901	RSM3K15FU	INK0012AM1	INK0012AM1	INK0012AM1
Q906	2SA1602AM1(EF)	2SA1576A(QR8)	2SA1576A(QR8)	2SA1576A(QR8)
Q907	2SA1602AM1(EF)	2SA1576A(QR8)	2SA1576A(QR8)	2SA1576A(QR8)
Q908	2SA1602AM1(EF)	2SA1576A(QR8)	2SA1576A(QR8)	2SA1576A(QR8)
Q909	2SC4154-11(EF)	2SC4081(QR8)	2SC4081(QR8)	2SC4081(QR8)
Q910	2SC4154-11(EF)	2SC4081(QR8)	2SC4081(QR8)	2SC4081(QR8)
Q911	2SC4154-11(EF)	2SC4081(QR8)	2SC4081(QR8)	2SC4081(QR8)
X901	ASS7123-A	ASS7106-1	ASS7106-1	ASS7106-1
X902	ASS7111-A	ASS7108-1	ASS7108-1	ASS7108-1

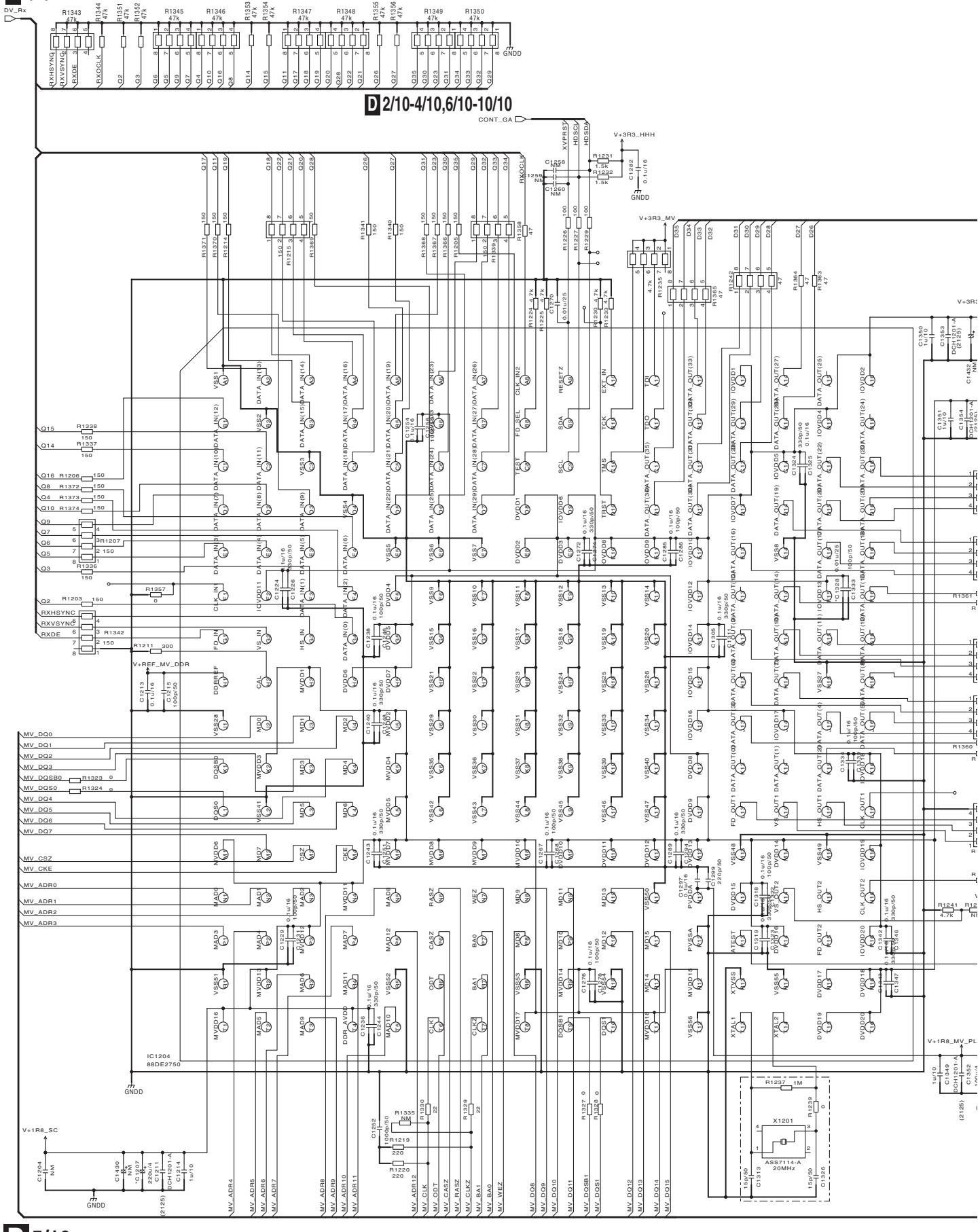
D 4/10 D-MAIN ASSY

(VSX-1127-K: 7028071752020-IL)
(VSX-1122-K: 7028071752040-IL)
(VSX-60: 7028071752040-IL)
(VSX-1027-K: 7028071752070-IL)

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



10.9 D-MAIN ASSY (5/10)



D 5/10 D-MAIN ASSY

(VSX-1127-K: 7028071752020-IL)
(VSX-1122-K: 7028071752040-IL)
(VSX-60: 7028071752040-IL)
(VSX-1027-K: 7028071752070-IL)

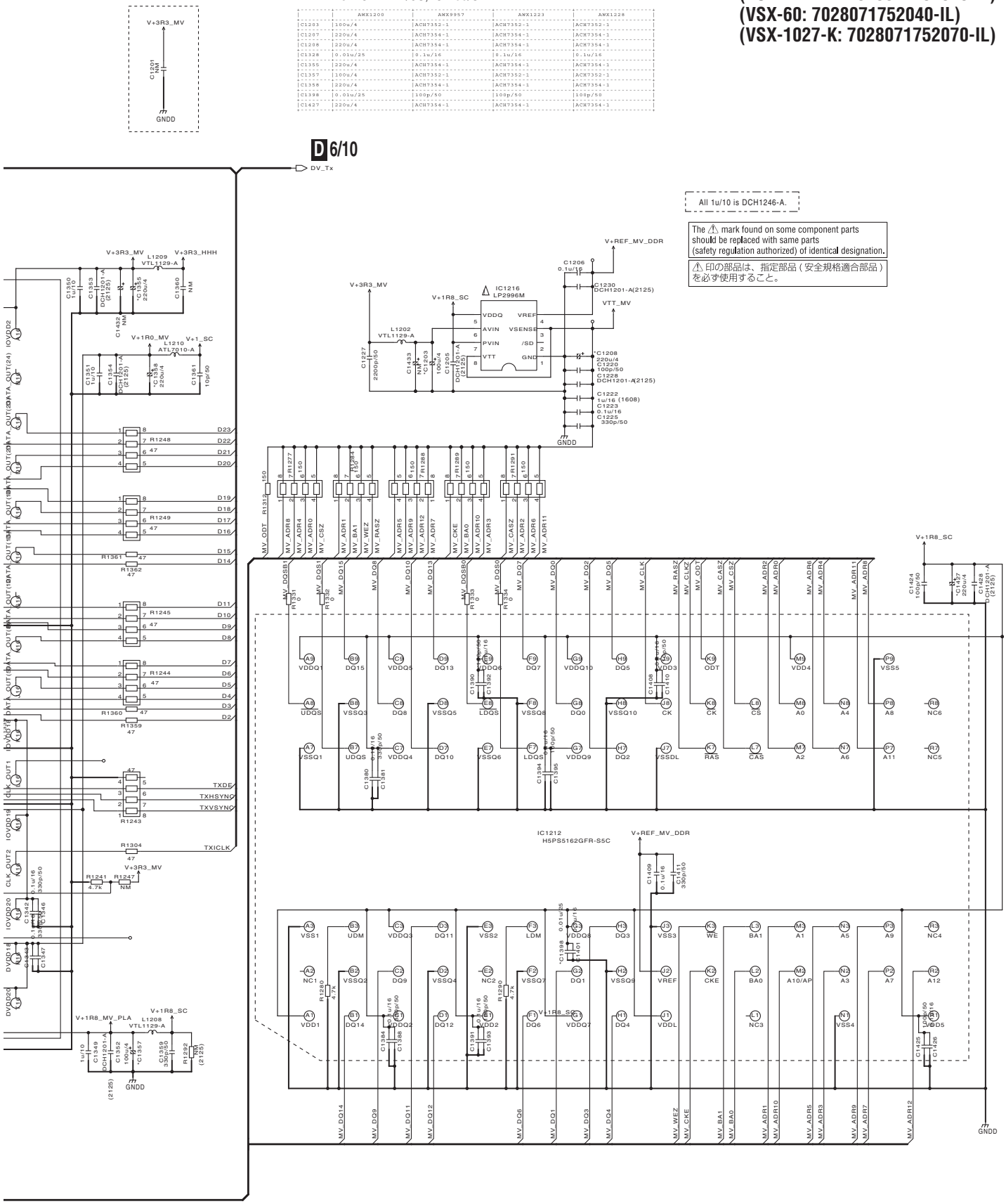
AWX1200: FY13 AVR SEL-LOW
AWX9957: VSX-1127/CU,VSX-1122/SY,/DL
AWX1223: VSX-1027/CU,VSX-922/SY,/F,/DL,/PW,/A,VSA-922/J
AWX1228: VSX-1122/CU,VSX-60/U

	AWX1200	AWX9957	AWX1223	AWX1228
C1203	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C1207	220u/4	ACH7354-1	ACH7354-1	ACH7354-1
C1208	220u/4	ACH7354-1	ACH7354-1	ACH7354-1
C1328	0.01u/25	0.1u/16	0.1u/16	0.1u/16
C1355	220u/4	ACH7354-1	ACH7354-1	ACH7354-1
C1357	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C1358	220u/4	ACH7354-1	ACH7354-1	ACH7354-1
C1398	0.01u/25	100p/50	100p/50	100p/50
C1427	220u/4	ACH7354-1	ACH7354-1	ACH7354-1

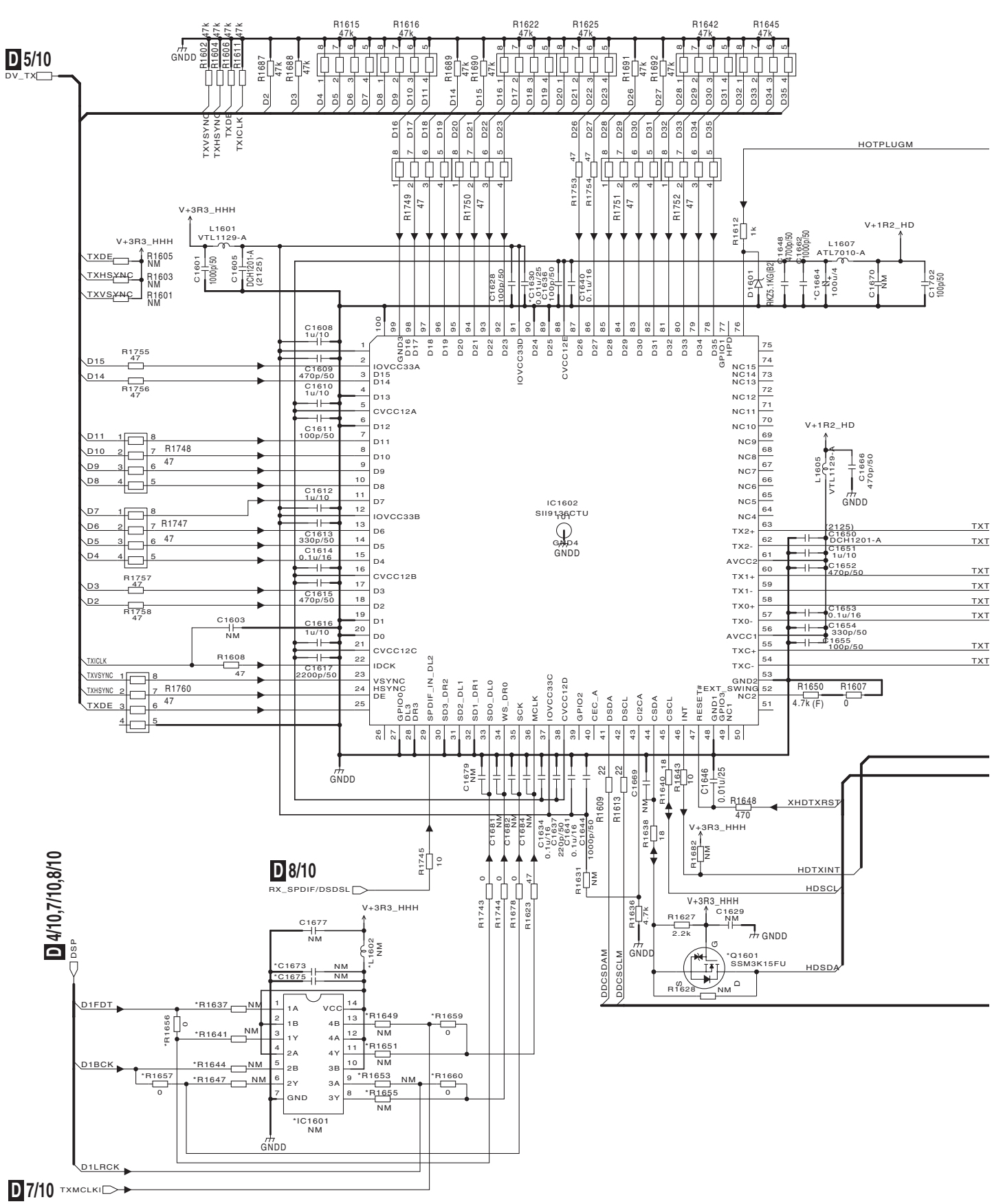
All 1u/10 is DCH1246-A.

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

⚠ 印の部品は、指定部品（安全規格適合部品）を必ず使用すること。

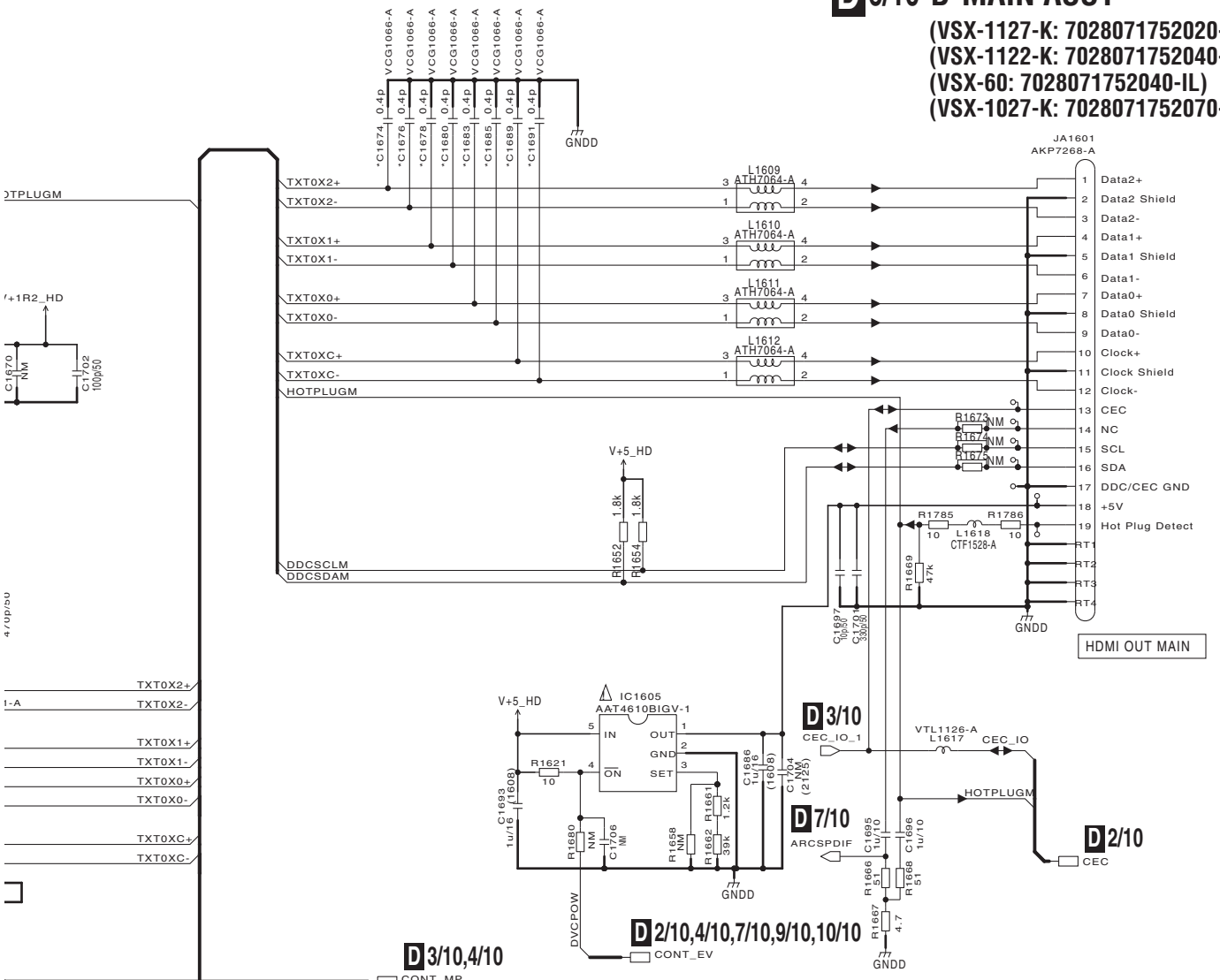


10.10 D-MAIN ASSY (6/10)



D 6/10 D-MAIN ASSY

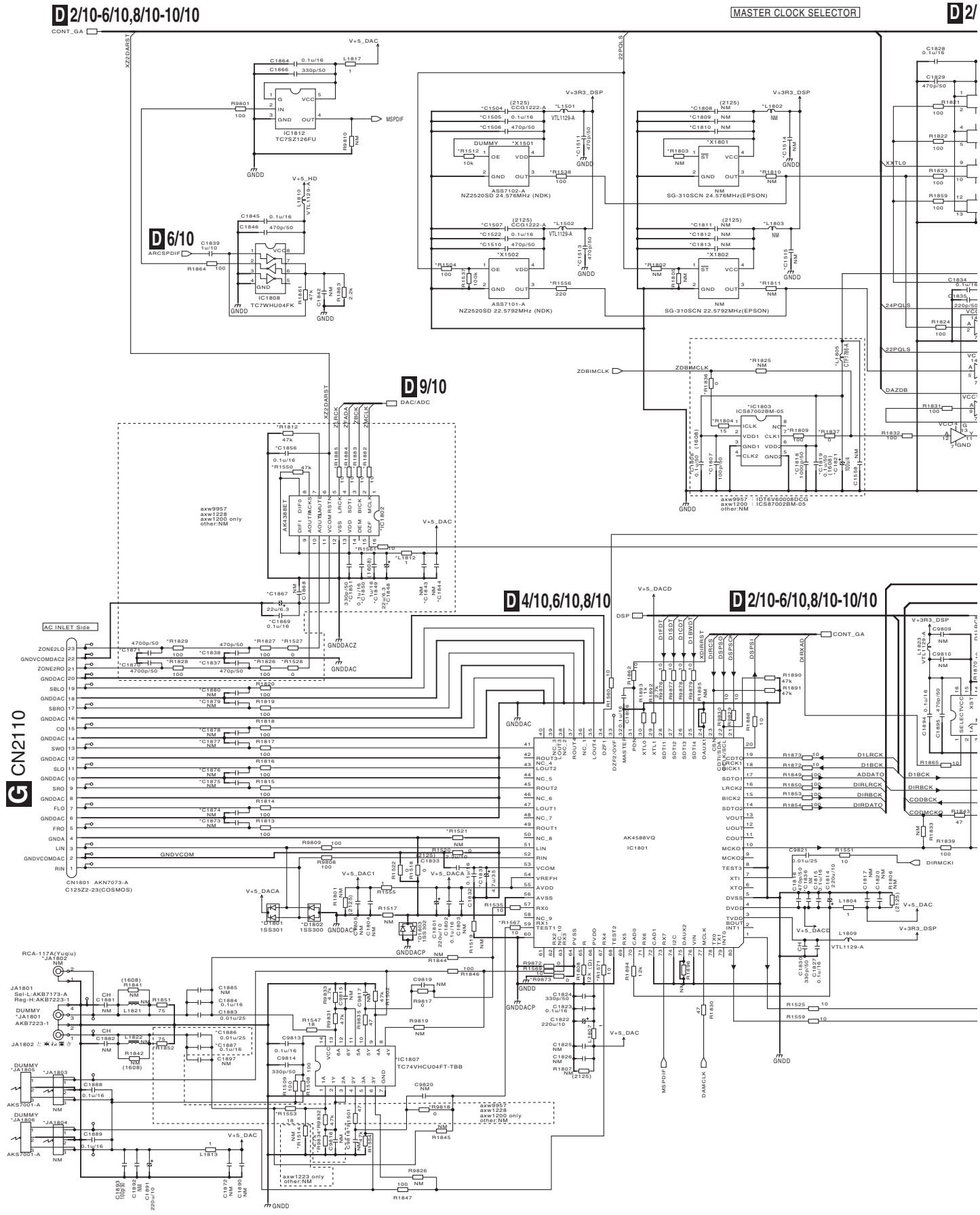
(VSX-1127-K: 7028071752020-IL)
(VSX-1122-K: 7028071752040-IL)
(VSX-60: 7028071752040-IL)
(VSX-1027-K: 7028071752070-IL)

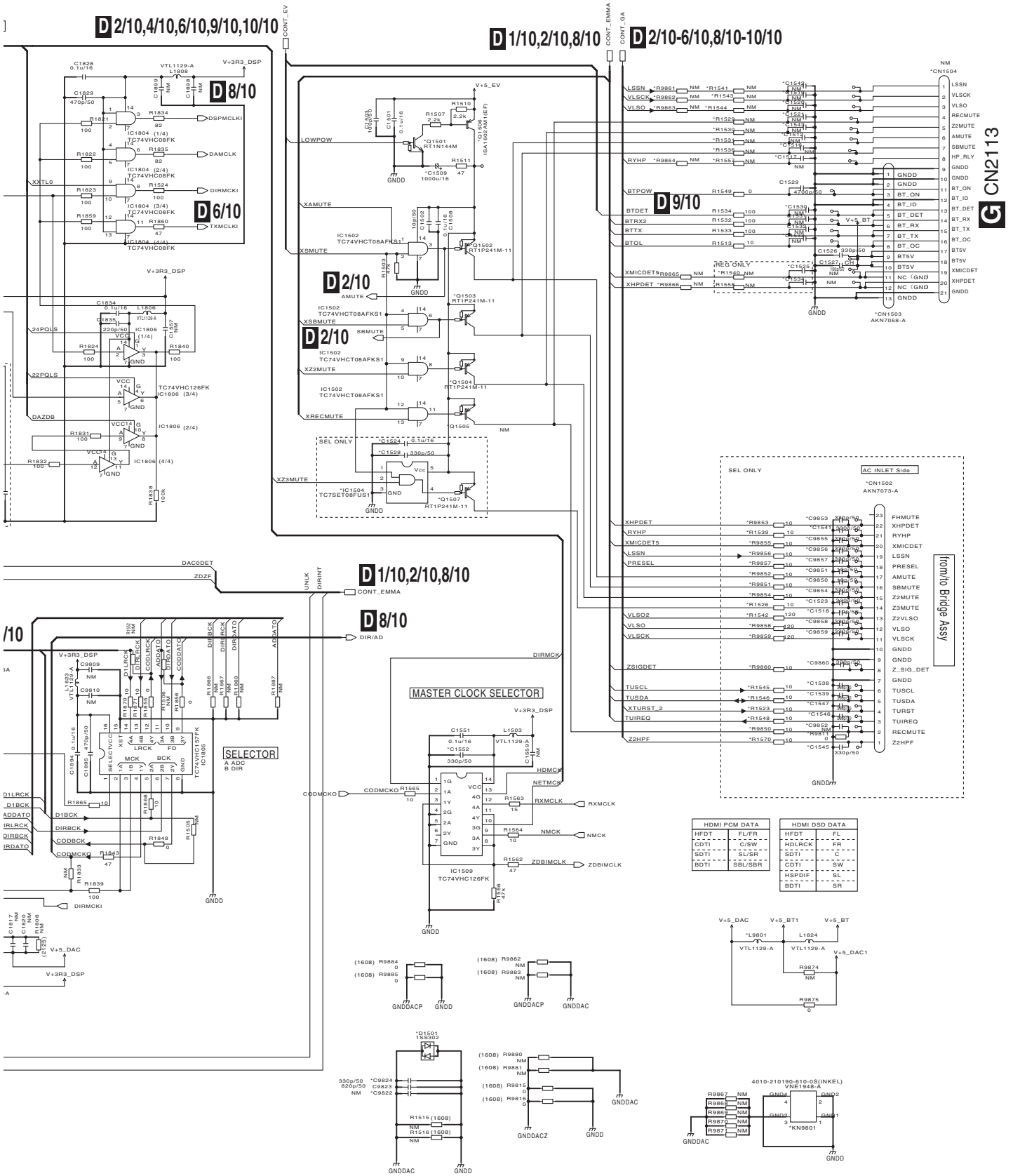


AWX1200: FY13 AVR SEL-LOW
AWX9957: VSX-1127/CU,VSX-1122/SY,/DL
AWX1223: VSX-1027/CU,VSX-922/SY,/F,/DL,/PW,/A,VSA-922/J
AWX1228: VSX-1122/CU,VSX-60/U

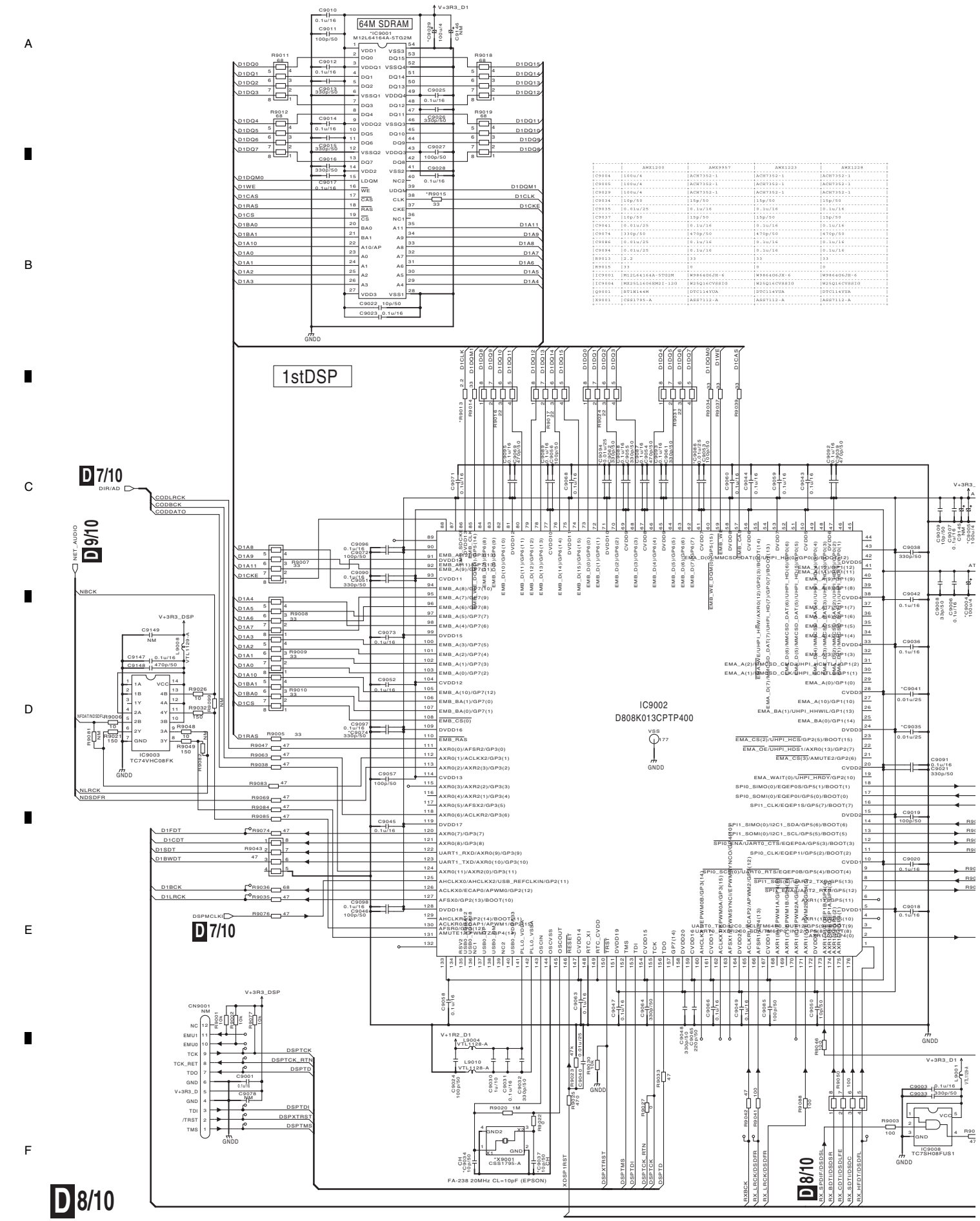
D 6/10

10.11 D-MAIN ASSY (7/10)




D 2/10,4/10,6/10,9/10,10/10
D 8/10
D 6/10
D 1/10,2/10,8/10
D 2/10-6/10,8/10-10/10
D 9/10
D 2/10
D 2/10
G CN2113
D 1/10,2/10,8/10
D 8/10
/10
MASTER CLOCK SELECTOR
SELECTOR
A ADC
B DIR
SEL ONLY
AC INLET Side
*CN1502
AKN7073-A
from/to Bridge Assy
HDMI PCM DATA
HDMI DSD DATA
*CN1504
*CN1503
AKN7068-A
*KN9801
4010-210190-610-0S(INKEL)
VNE1948-A
D 7/10 D-MAIN ASSY
(VSX-1127-K: 7028071752020-IL)
(VSX-1122-K: 7028071752040-IL)
(VSX-60: 7028071752040-IL)
(VSX-1027-K: 7028071752070-IL)
AWX1200: FY13 AVR SEL-LOW
AWX9957: VSX-1127/CU,VSX-1122/SY,/DL
AWX1223: VSX-1027/CU,VSX-922/SY,/F,/DL,/PW,/A,VSA-922/J
AWX1228: VSX-1122/CU,VSX-60/U
D 7/10
VSX-1127-K
83

10.12 D-MAIN ASSY (8/10)



	AMX1200	AMX9957	AMX1223	AMX1228
C9004	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C9005	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C9029	100u/4	ACH7352-1	ACH7352-1	ACH7352-1
C9034	10p/50	15p/50	15p/50	15p/50
C9035	0.01u/25	0.1u/16	0.1u/16	0.1u/16
C9037	10p/50	15p/50	15p/50	15p/50
C9041	0.01u/25	0.1u/16	0.1u/16	0.1u/16
C9074	330p/50	470p/50	470p/50	470p/50
C9086	0.01u/25	0.1u/16	0.1u/16	0.1u/16
C9094	0.01u/25	0.1u/16	0.1u/16	0.1u/16
R9013	2.2	33	33	33
R9015	33	0	0	0
IC9001	M12L64164A-5TG2M	W9864G6JH-6	W9864G6JH-6	W9864G6JH-6
IC9004	MX25L1606EM2I-12G	W25Q16CVSSIG	W25Q16CVSSIG	W25Q16CVSSIG
Q9001	RT1N144M	DTC114YUA	DTC114YUA	DTC114YUA
X9001	CSS1795-A	AS37112-A	AS37112-A	AS37112-A

D 8/10 D-MAIN ASSY

(VSX-1127-K: 7028071752020-IL)
(VSX-1122-K: 7028071752040-IL)
(VSX-60: 7028071752040-IL)
(VSX-1027-K: 7028071752070-IL)

AWX1200: FY13 AVR SEL-LOW
AWX9957: VSX-1127/CU,VSX-1122/SY,/DL
AWX1223: VSX-1027/CU,VSX-922/SY,/F,/DL,/PW,/A,VSA-922/J
AWX1228: VSX-1122/CU,VSX-60/U

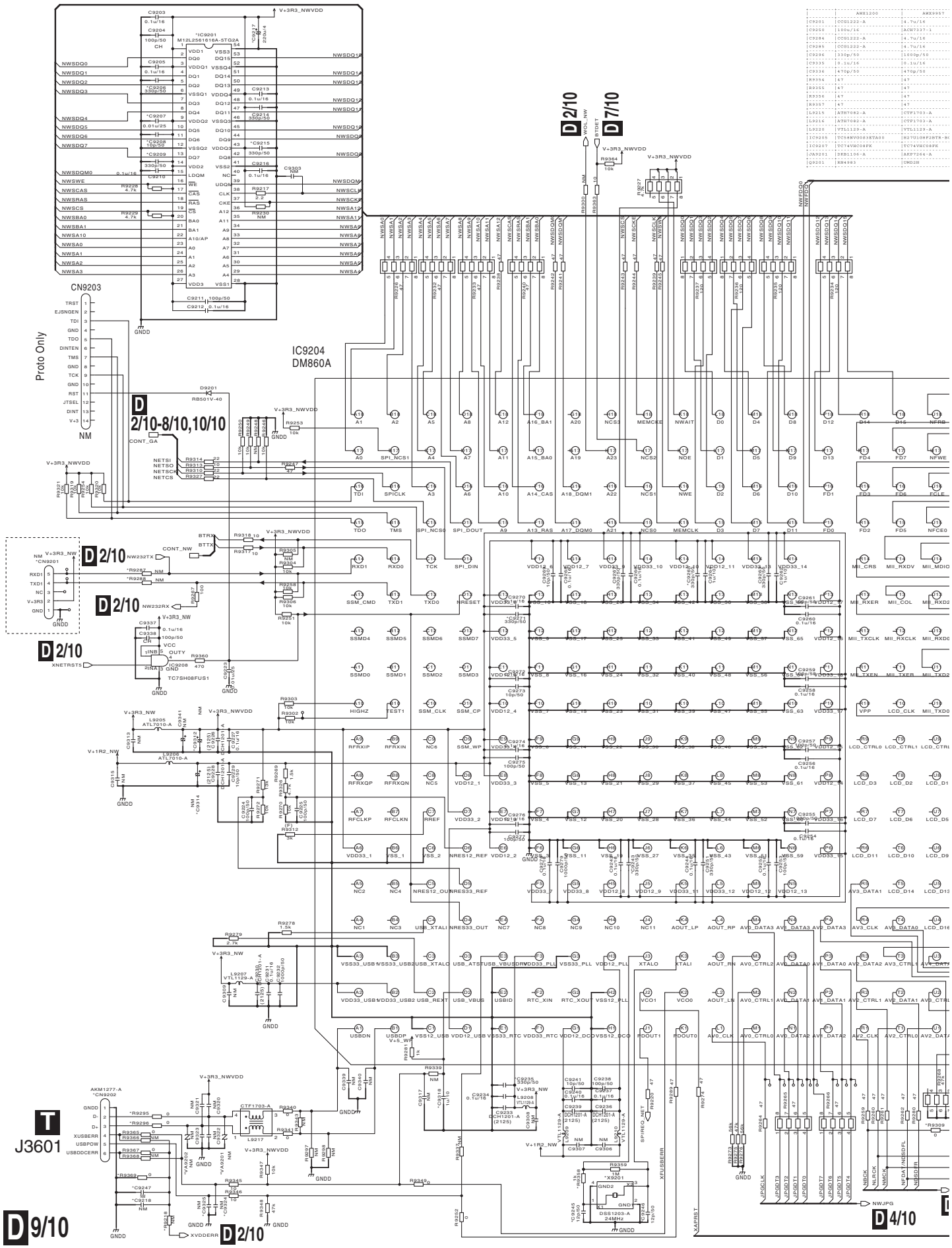
	AWX1200	AWX9957	AWX1223	AWX1228
C1509	1000u/16	ACH7349-1	ACH7349-1	ACH7349-1
C1512	NM	4700p/50	4700p/50	4700p/50
C1516	NM	4700p/50	4700p/50	4700p/50
C1517	NM	4700p/50	4700p/50	4700p/50
C1518	10p/50	NM	NM	NM
C1519	NM	10p/50	10p/50	10p/50
C1520	NM	10p/50	10p/50	10p/50
C1521	NM	4700p/50	4700p/50	4700p/50
C1523	330p/50	NM	NM	NM
C1524	0.1u/16	NM	NM	NM
C1525	NM	100p/50	100p/50	100p/50
C1528	330p/50	NM	NM	NM
C1530	NM	4700p/50	4700p/50	4700p/50
C1533	NM	4700p/50	4700p/50	4700p/50
C1534	NM	1000p/50	1000p/50	1000p/50
C1538	330p/50	NM	NM	NM
C1539	330p/50	NM	NM	NM
C1541	330p/50	NM	NM	NM
C1542	NM	4700p/50	4700p/50	4700p/50
C1543	NM	4700p/50	4700p/50	4700p/50
C1545	330p/50	NM	NM	NM
C1546	330p/50	NM	NM	NM
C1547	330p/50	NM	NM	NM
C1552	330p/50	470p/50	470p/50	470p/50
C9850	10p/50	NM	NM	NM
C9851	10p/50	NM	NM	NM
C9852	NM	NM	NM	NM
C9853	330p/50	NM	NM	NM
C9854	330p/50	NM	NM	NM
C9855	330p/50	NM	NM	NM
C9856	330p/50	NM	NM	NM
C9857	330p/50	NM	NM	NM
C9858	330p/50	NM	NM	NM
C9859	330p/50	NM	NM	NM
C9860	330p/50	NM	NM	NM
R1523	10	NM	NM	NM
R1526	10	NM	NM	NM
R1529	NM	10	10	10
R1530	NM	10	10	10
R1531	NM	10	10	10
R1536	NM	10	10	10
R1539	10	NM	NM	NM
R1540	NM	10	10	10
R1541	NM	10	10	10
R1542	120	NM	NM	NM
R1543	NM	100	100	100
R1544	NM	100	100	100
R1545	10	NM	NM	NM
R1546	10	NM	NM	NM
R1548	10	NM	NM	NM
R1557	NM	10	10	10
R1558	NM	10	10	10
R1570	10	NM	NM	NM
R9811	0	NM	NM	NM
R9850	10	NM	NM	NM
R9851	10	NM	NM	NM
R9852	10	NM	NM	NM
R9853	10	NM	NM	NM
R9854	10	NM	NM	NM
R9855	10	NM	NM	NM
R9856	10	NM	NM	NM
R9857	10	NM	NM	NM
R9858	120	NM	NM	NM
R9859	120	NM	NM	NM
R9860	10	NM	NM	NM
R9861	NM	0	0	0
R9862	NM	0	0	0
R9863	NM	0	0	0
R9864	NM	0	0	0
R9865	NM	0	0	0
R9866	NM	0	0	0
L9801	VTL1129-A	NM	NM	NM
IC1504	TC7SET08FUS1	NM	NM	NM
CN1502	AKM7073-A	NM	NM	NM
CN1503	AKM7068-A	NM	NM	NM
CN1504	NM	AKM7072-A	AKM7072-A	AKM7072-A
Q1501	RT1N144M	DTC114YUA	DTC114YUA	DTC114YUA
Q1502	RT1P241M-11	DTA124EUA	DTA124EUA	DTA124EUA
Q1503	RT1P241M-11	DTA124EUA	DTA124EUA	DTA124EUA
Q1504	RT1P241M-11	DTA124EUA	DTA124EUA	DTA124EUA
Q1505	NM	DTA124EUA	DTA124EUA	DTA124EUA
Q1506	2SA1602AM1(EF)	2SA1576A(QRS)	2SA1576A(QRS)	2SA1576A(QRS)
Q1507	RT1P241M-11	NM	NM	NM
TP1531	NM	NM	NM	NM
TP1850	TESTPOINT	NM	NM	NM
TP1851	TESTPOINT	NM	NM	NM
TP1854	TESTPOINT	NM	NM	NM
TP1855	TESTPOINT	NM	NM	NM
TP1856	TESTPOINT	NM	NM	NM
TP1859	TESTPOINT	NM	NM	NM
TP1861	TESTPOINT	NM	NM	NM
TP1862	TESTPOINT	NM	NM	NM
TP1863	TESTPOINT	NM	NM	NM
TP1864	TESTPOINT	NM	NM	NM
TP1866	NM	NM	NM	NM

D 2/10-7/10,9/10,10/10
D 1/10,2/10,7/10
D 4/10,6/10,7/10

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

⚠ 印の部品は、指定部品（安全規格適合部品）を必ず使用すること。

10.13 D-MAIN ASSY (9/10)



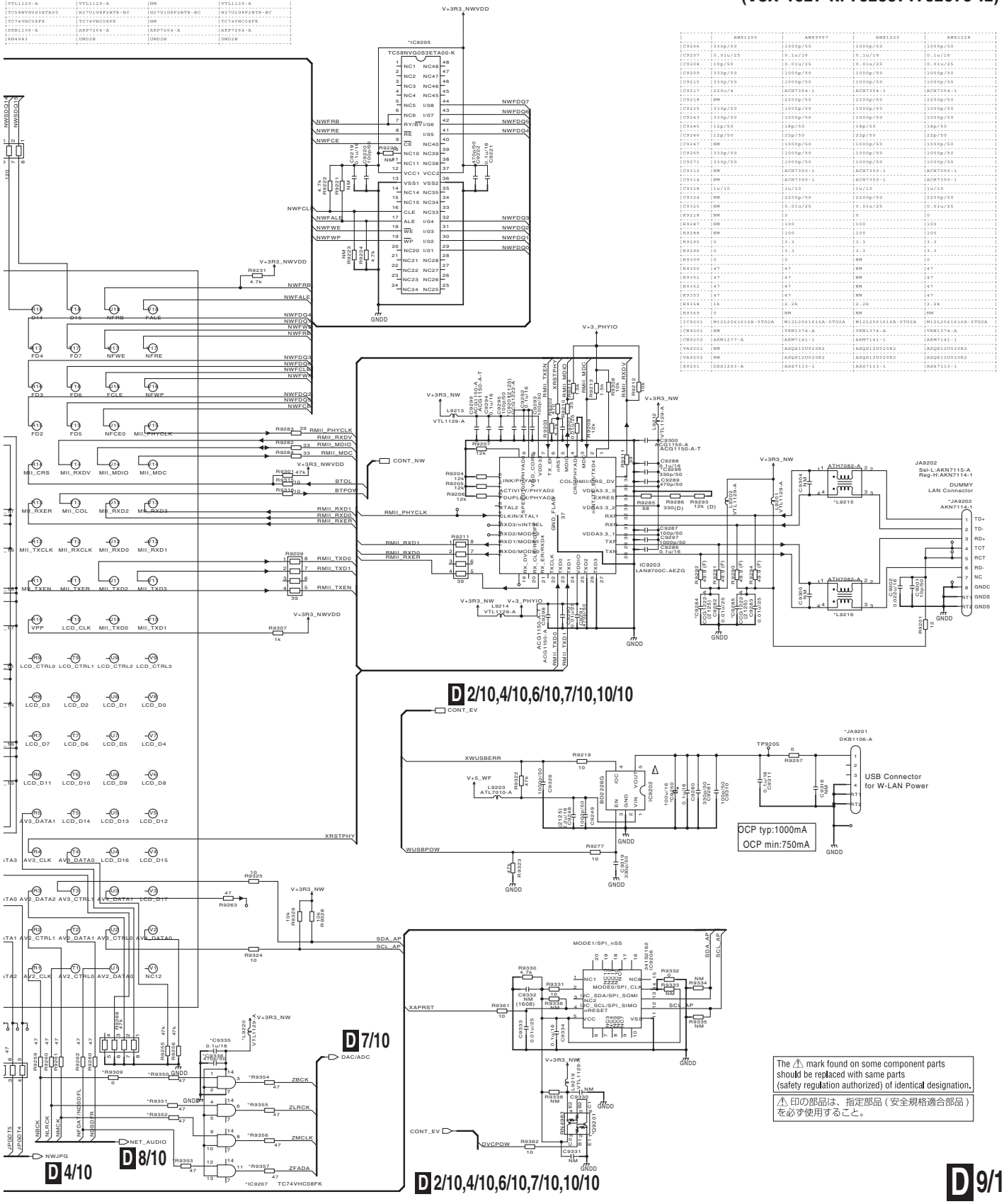
AWX1200	AWX9957	AWX1223	AWX1228
CCG1222-A	4.7u/16	4.7u/16	4.7u/16
100u/16	ACH7337-1	ACH7337-1	ACH7337-1
CCG1222-A	4.7u/16	4.7u/16	4.7u/16
CCG1222-A	4.7u/16	4.7u/16	4.7u/16
330p/50	1000p/50	1000p/50	1000p/50
0.1u/16	0.1u/16	NM	0.1u/16
470p/50	470p/50	NM	470p/50
47	47	NM	47
47	47	NM	47
47	47	NM	47
47	47	NM	47
ATH7082-A	CTF1703-A	CTF1703-A	CTF1703-A
ATH7082-A	CTF1703-A	CTF1703-A	CTF1703-A
VTL1129-A	VTL1129-A	NM	VTL1129-A
TC58NVG0S3ETA00	H27U108F2BTR-BC	H27U108F2BTR-BC	H27U108F2BTR-BC
TC74VHC08FK	TC74VHC08FK	NM	TC74VHC08FK
DKB1106-A	AKF7264-A	AKF7264-A	AKF7264-A
RN4983	UND2N	UND2N	UND2N

AWX1200: FY13 AVR SEL-LOW
AWX9957: VSX-1127/CU,VSX-1122/SY,/DL
AWX1223: VSX-1027/CU,VSX-922/SY,/F,/DL,/PW,/A,VSA-922/J
AWX1228: VSX-1122/CU,VSX-60/U

D 9/10 D-MAIN ASSY

(VSX-1127-K: 7028071752020-IL)
(VSX-1122-K: 7028071752040-IL)
(VSX-60: 7028071752040-IL)
(VSX-1027-K: 7028071752070-IL)

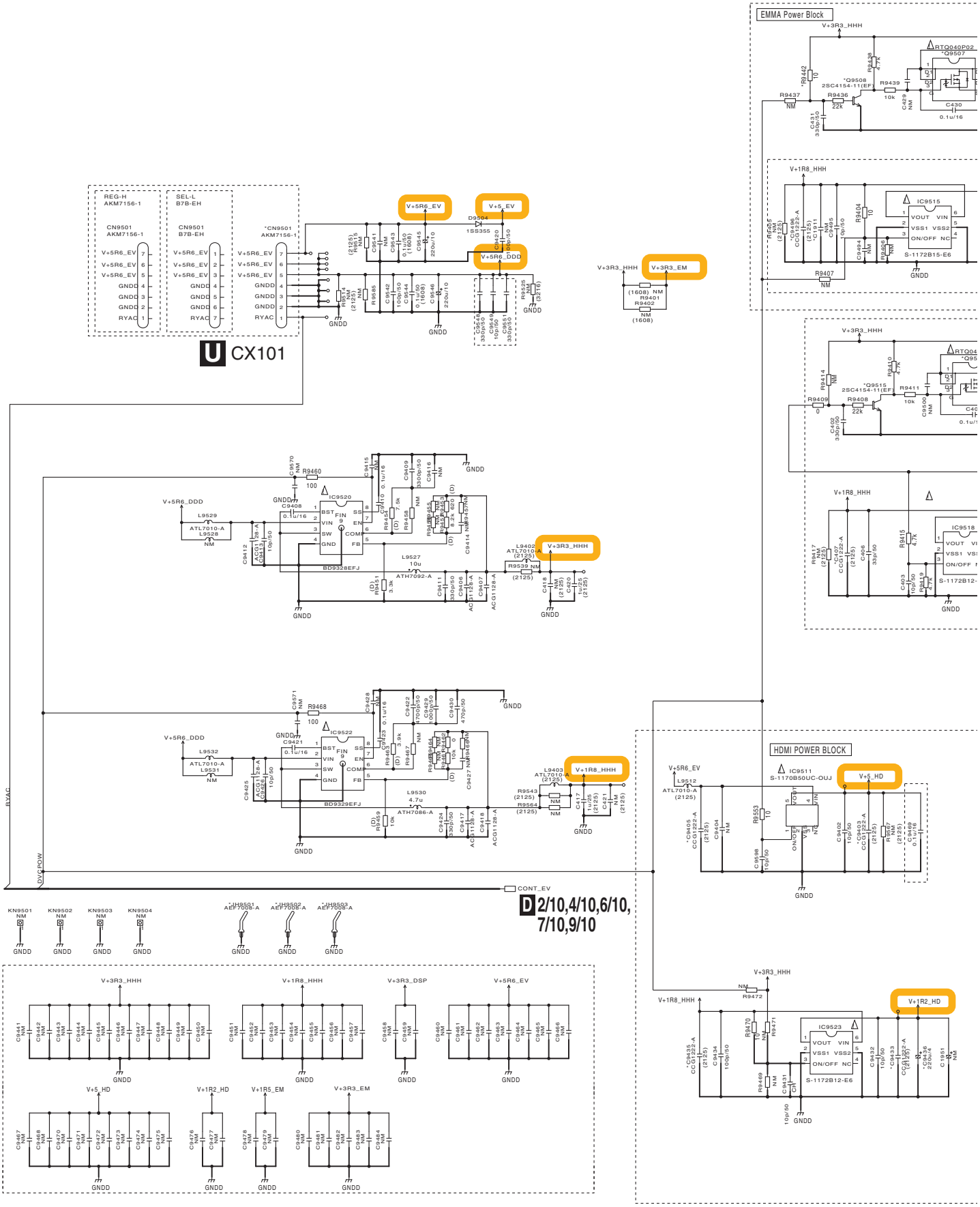
	AWX1200	AWX9957	AWX1223	AWX1228
C9206	330p/50	1000p/50	1000p/50	1000p/50
C9207	0.01u/25	0.1u/16	0.1u/16	0.1u/16
C9208	10p/50	0.01u/25	0.01u/25	0.01u/25
C9209	330p/50	1000p/50	1000p/50	1000p/50
C9215	330p/50	1000p/50	1000p/50	1000p/50
C9217	220u/4	ACH7354-1	ACH7354-1	ACH7354-1
C9218	NM	2200p/50	2200p/50	2200p/50
C9235	330p/50	1000p/50	1000p/50	1000p/50
C9243	330p/50	1000p/50	1000p/50	1000p/50
C9245	12p/50	18p/50	18p/50	18p/50
C9246	12p/50	22p/50	22p/50	22p/50
C9247	NM	1000p/50	1000p/50	1000p/50
C9265	330p/50	1000p/50	1000p/50	1000p/50
C9271	330p/50	1000p/50	1000p/50	1000p/50
C9312	NM	ACH7350-1	ACH7350-1	ACH7350-1
C9314	NM	ACH7350-1	ACH7350-1	ACH7350-1
C9318	1u/10	1u/10	1u/10	1u/10
C9324	NM	2200p/50	2200p/50	2200p/50
C9325	NM	0.01u/25	0.01u/25	0.01u/25
R9218	NM	0	0	0
R9287	NM	100	100	100
R9288	NM	100	100	100
R9295	0	3.3	3.3	3.3
R9296	0	3.3	3.3	3.3
R9309	0	0	NM	0
R9350	47	47	NM	47
R9351	47	47	NM	47
R9352	47	47	NM	47
R9353	47	47	NM	47
R9358	1k	2.2k	2.2k	2.2k
R9369	0	NM	NM	NM
IC9201	M12L2561616A-5TG2A	M12L2561616A-5TG2A	M12L2561616A-5TG2A	M12L2561616A-5TG2A
CN9201	NM	VKN1374-A	VKN1374-A	VKN1374-A
CN9202	AKM1277-A	AKM7141-1	AKM7141-1	AKM7141-1
VA9201	NM	ASQ812D02082	ASQ812D02082	ASQ812D02082
VA9202	NM	ASQ812D02082	ASQ812D02082	ASQ812D02082
X9201	DSX1203-A	AS07113-1	AS07113-1	AS07113-1



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

⚠ 印の部品は、指定部品（安全規格適合部品）を必ず使用すること。

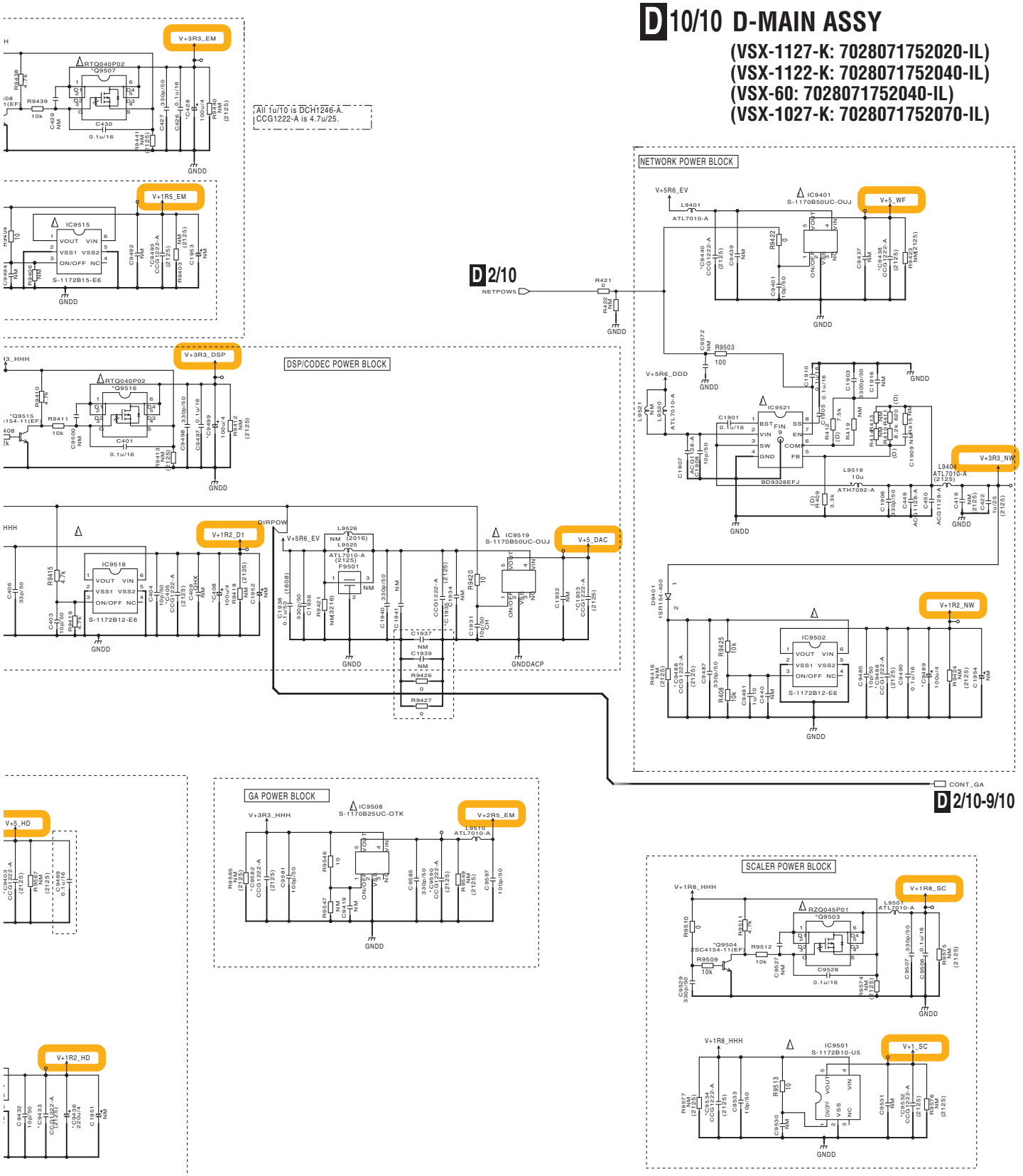
10.14 D-MAIN ASSY (10/10)



D 10/10

D 10/10 D-MAIN ASSY

(VSX-1127-K: 7028071752020-IL)
(VSX-1122-K: 7028071752040-IL)
(VSX-60: 7028071752040-IL)
(VSX-1027-K: 7028071752070-IL)



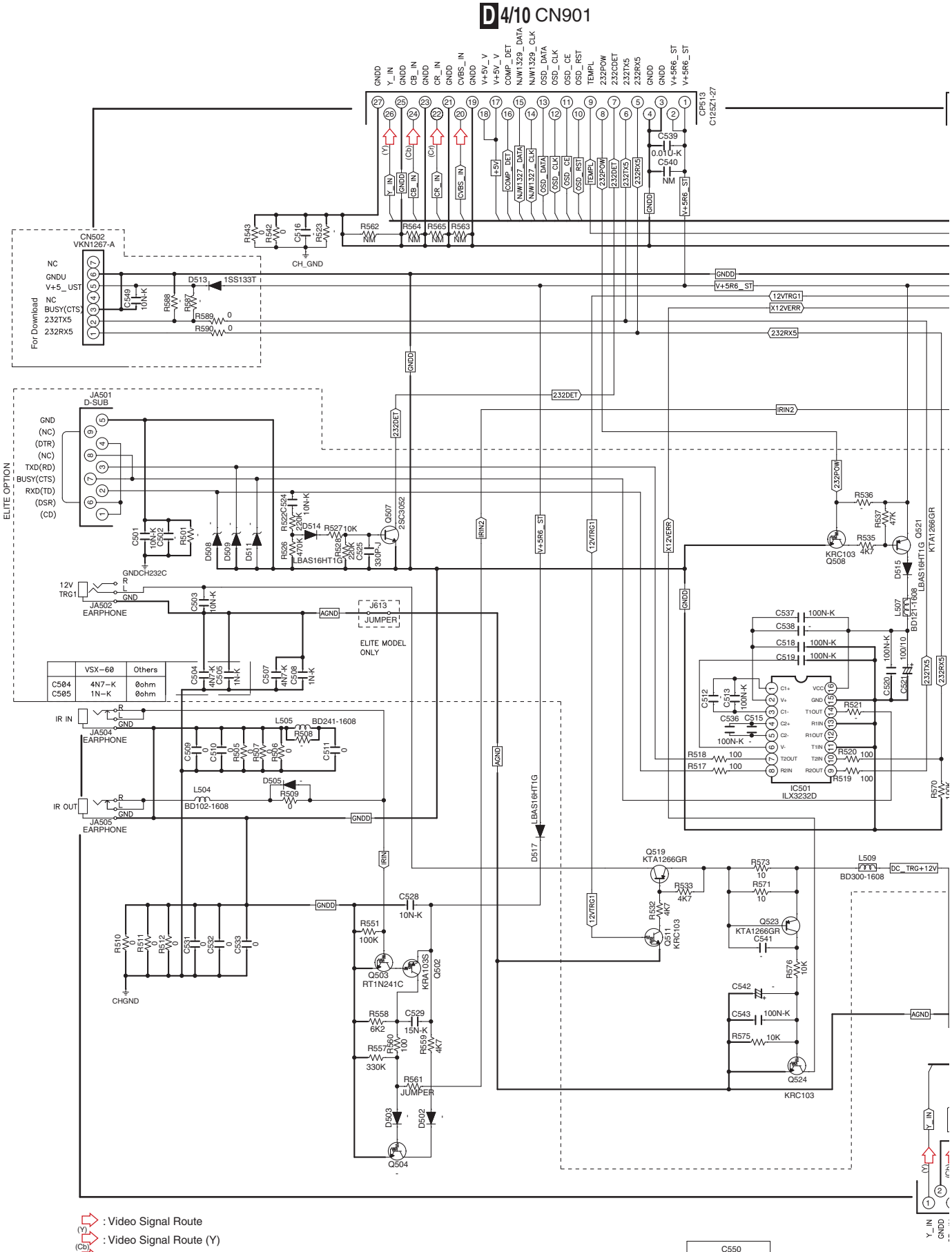
AWX1200: FY13 AVR SEL-LOW
AWX9957: VSX-1127/CU,VSX-1122/SY,/DL
AWX1223: VSX-1027/CU,VSX-922/SY,/F,/DL,/PW,/A,VSA-922/J
AWX1228: VSX-1122/CU,VSX-60/U

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

⚠ 印の部品は、指定部品（安全規格適合部品）を必ず使用すること。

D 10/10

10.15 IR ASSY



C504	VSX-60	Others
C505	4N7-K	0ohm
	1N-K	0ohm

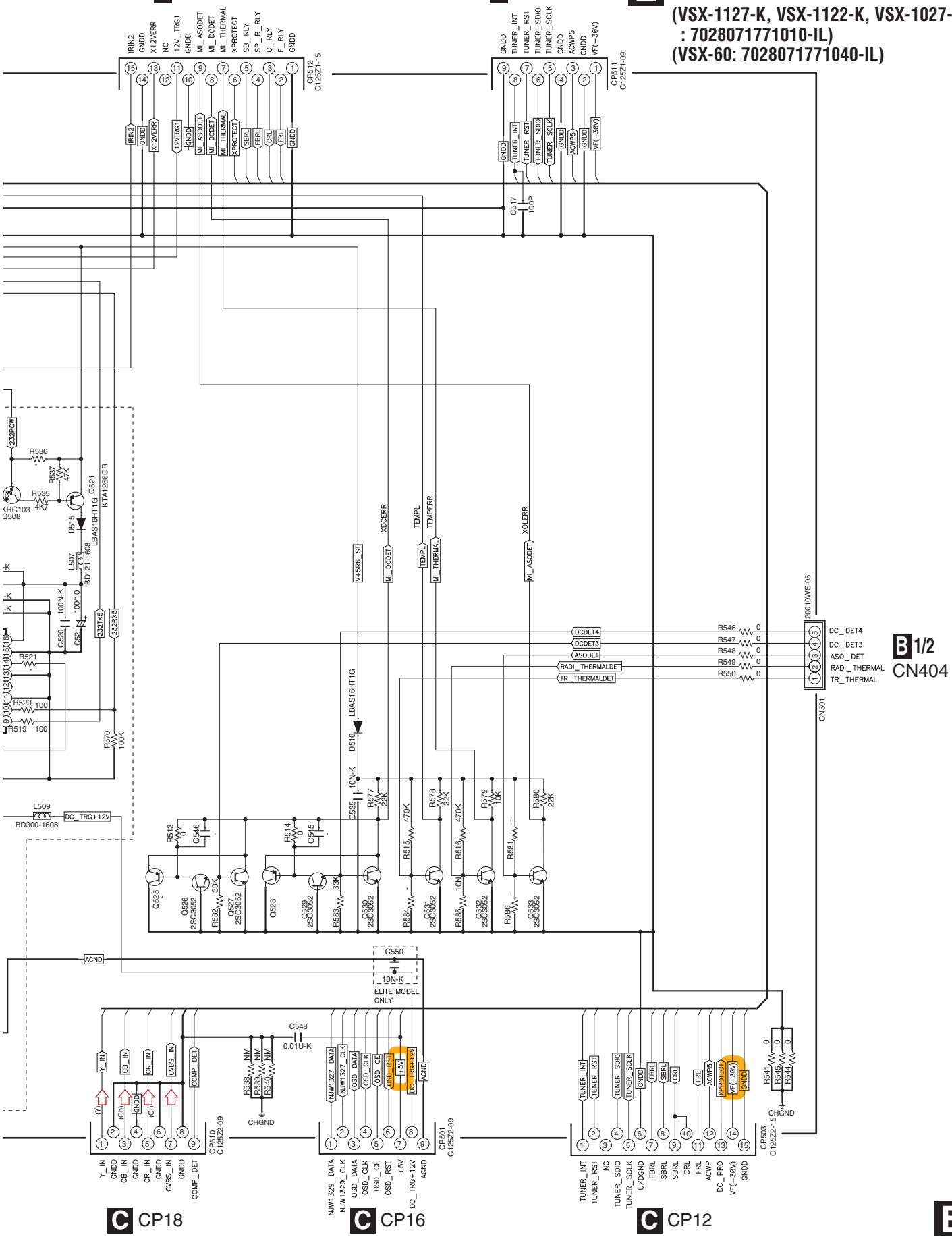
C550	
VSX-60	OTHER
10N-K	0

D 2/10 CN603

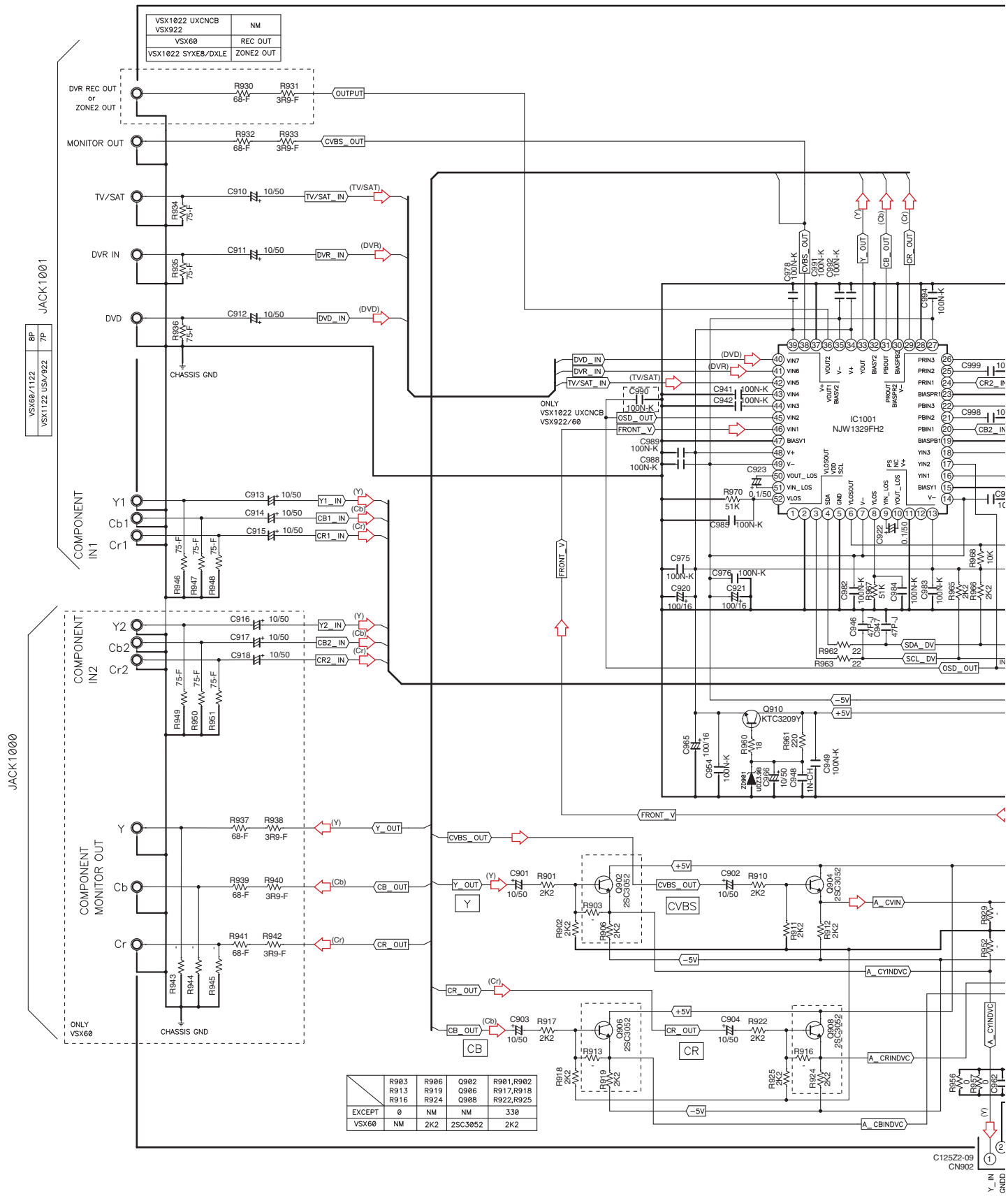
D 2/10 CN607

E IR ASSY

(VSX-1127-K, VSX-1122-K, VSX-1027-K : 7028071771010-IL)
(VSX-60: 7028071771040-IL)



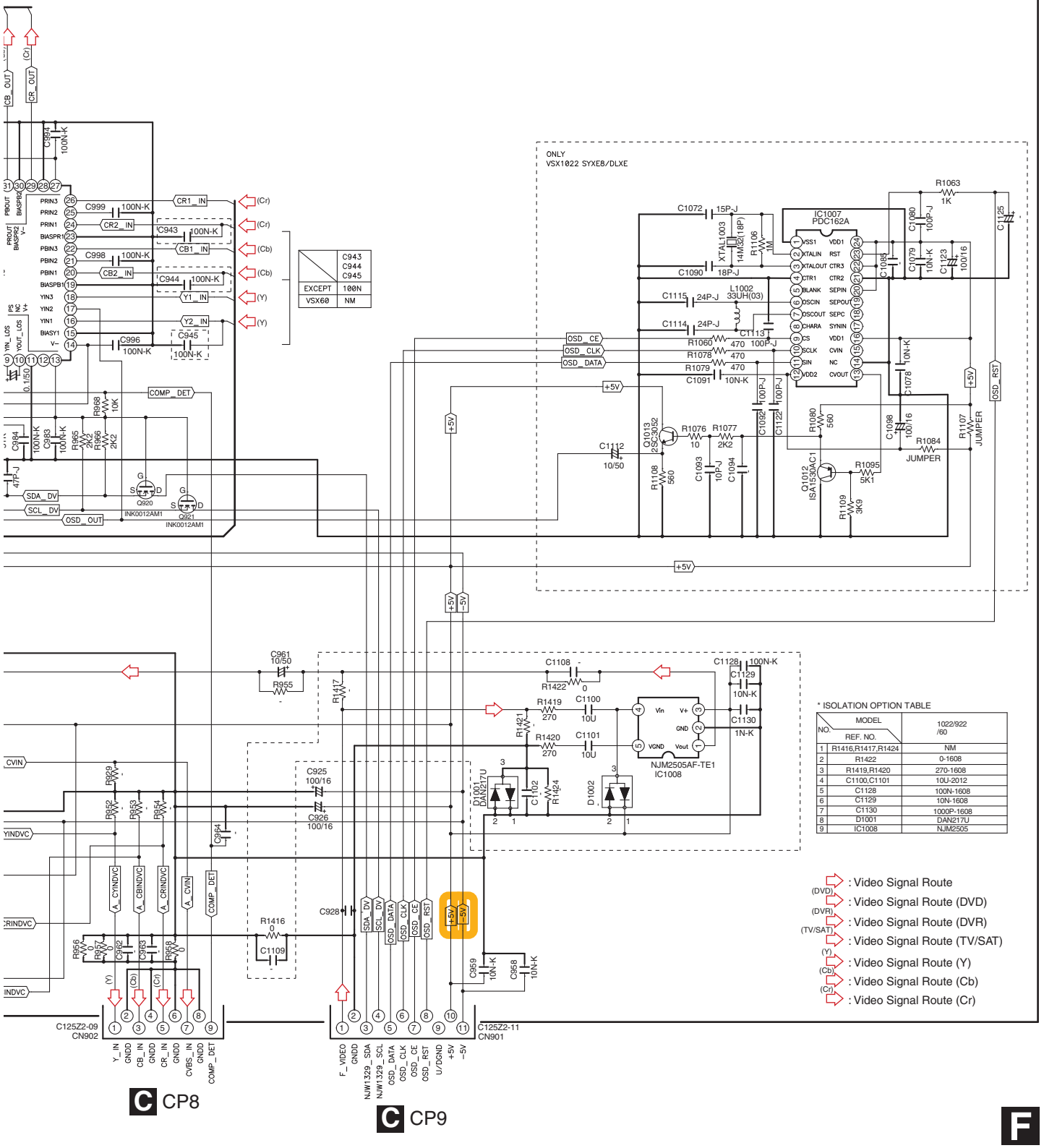
10.16 VIDEO ASSY



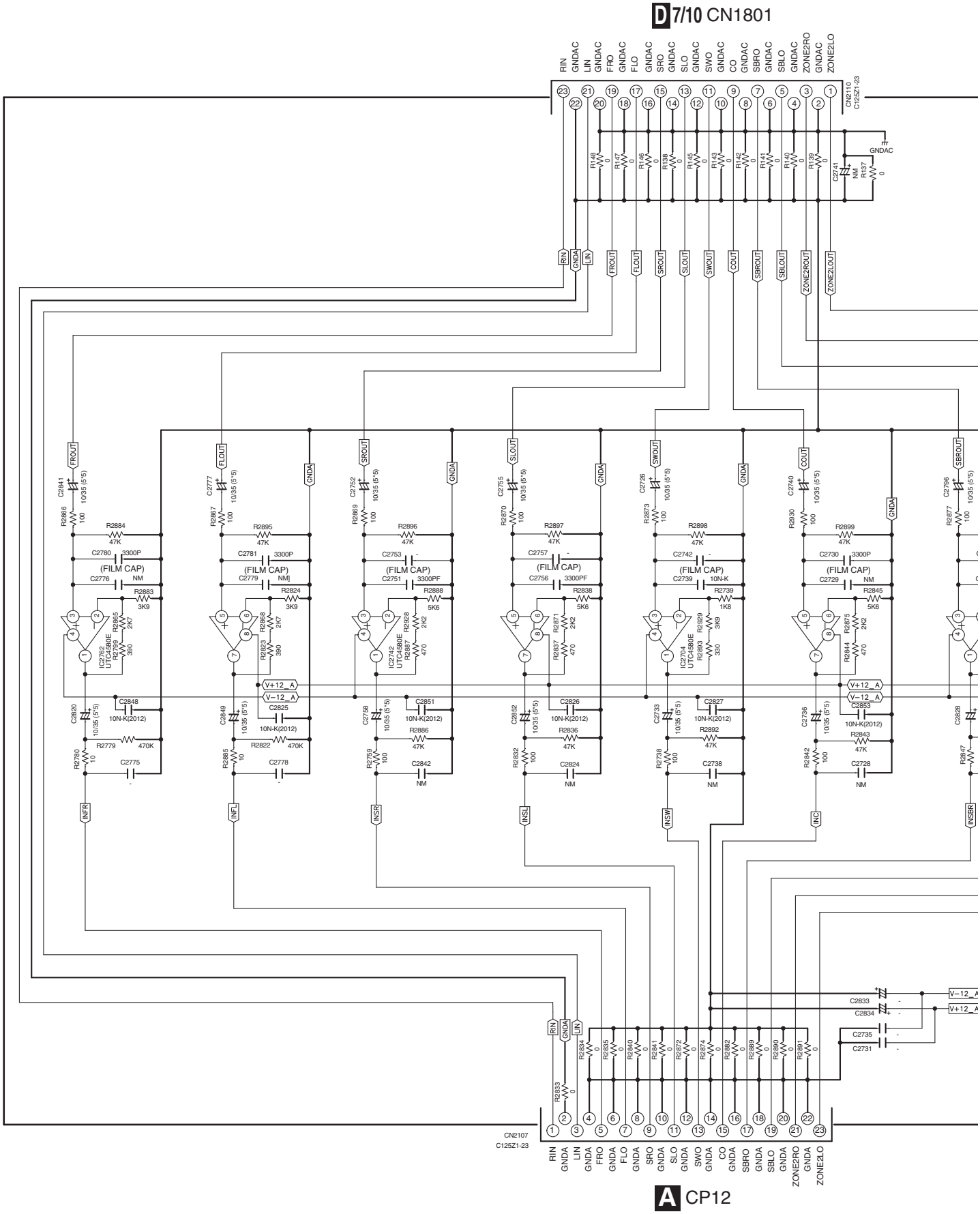
	R903 R913 R916	R906 R919 R924	Q902 Q906 Q908	R901,R902 R917,R918 R922,R925
EXCEPT VSX60	0	NM	NM	330
	NM	2K2	2SC3052	2K2

F VIDEO ASSY

(VSX-1127-K: 7028071712020-IL)
(VSX-1122-K: 7028071712070-IL)
(VSX-60: 7028071712040-IL)
(VSX-1027-K: 7028071712070-IL)



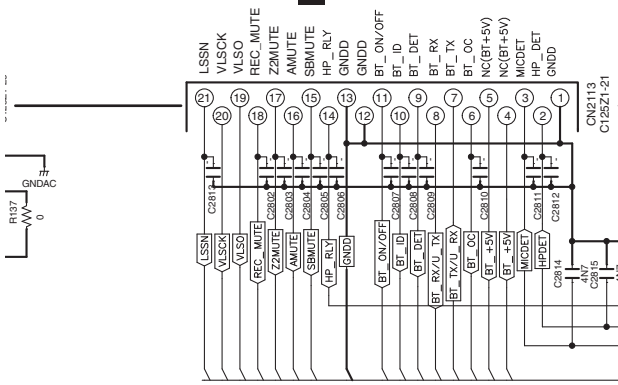
10.17 BRG ASSY

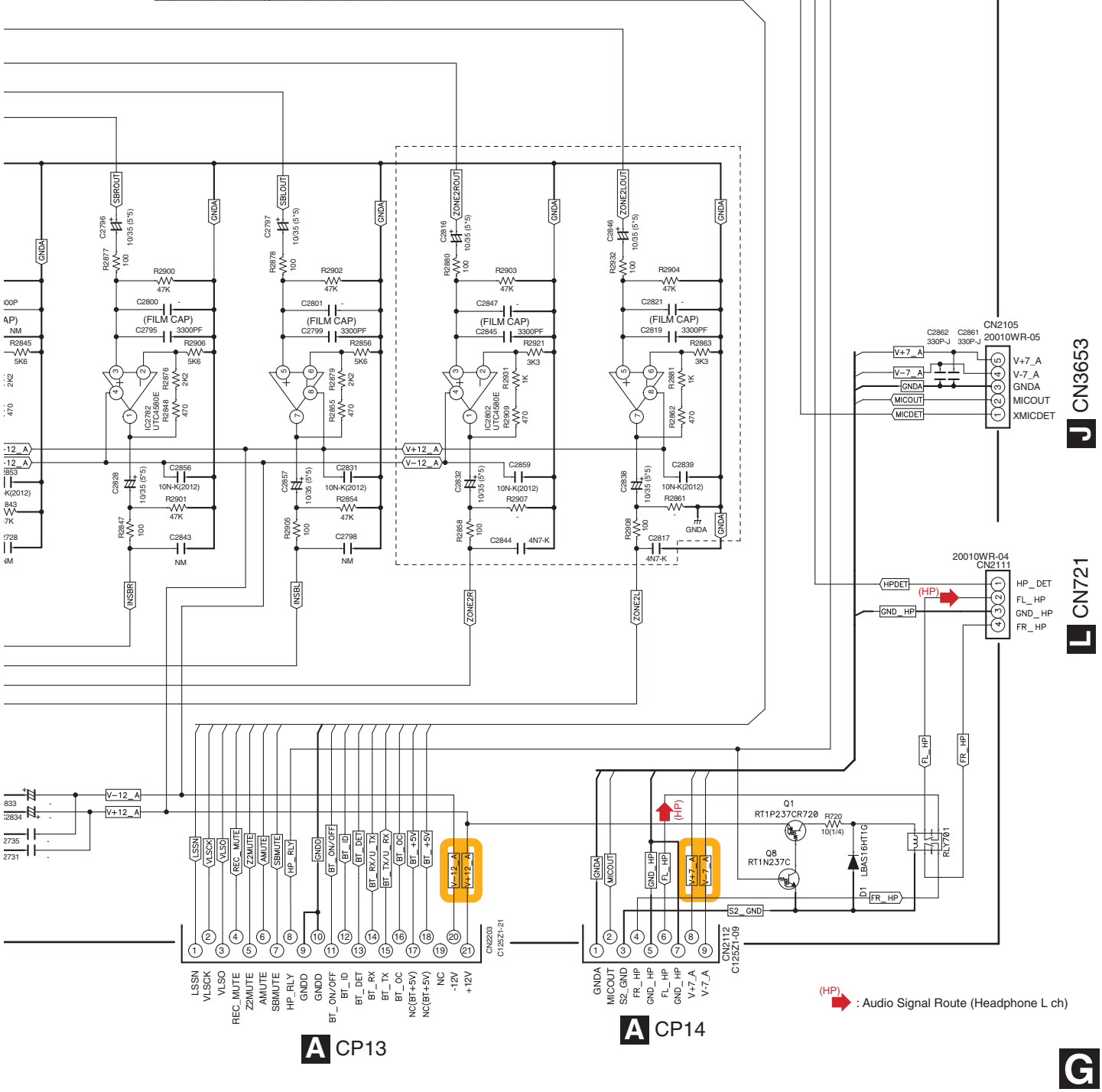


G BRG ASSY

(VSX-1127-K, VSX-1122-K, VSX-60: 7028071773040-IL)
(VSX-1027-K: 7028071773070-IL)

D 7/10 CN1504





J CN3653

L CN721

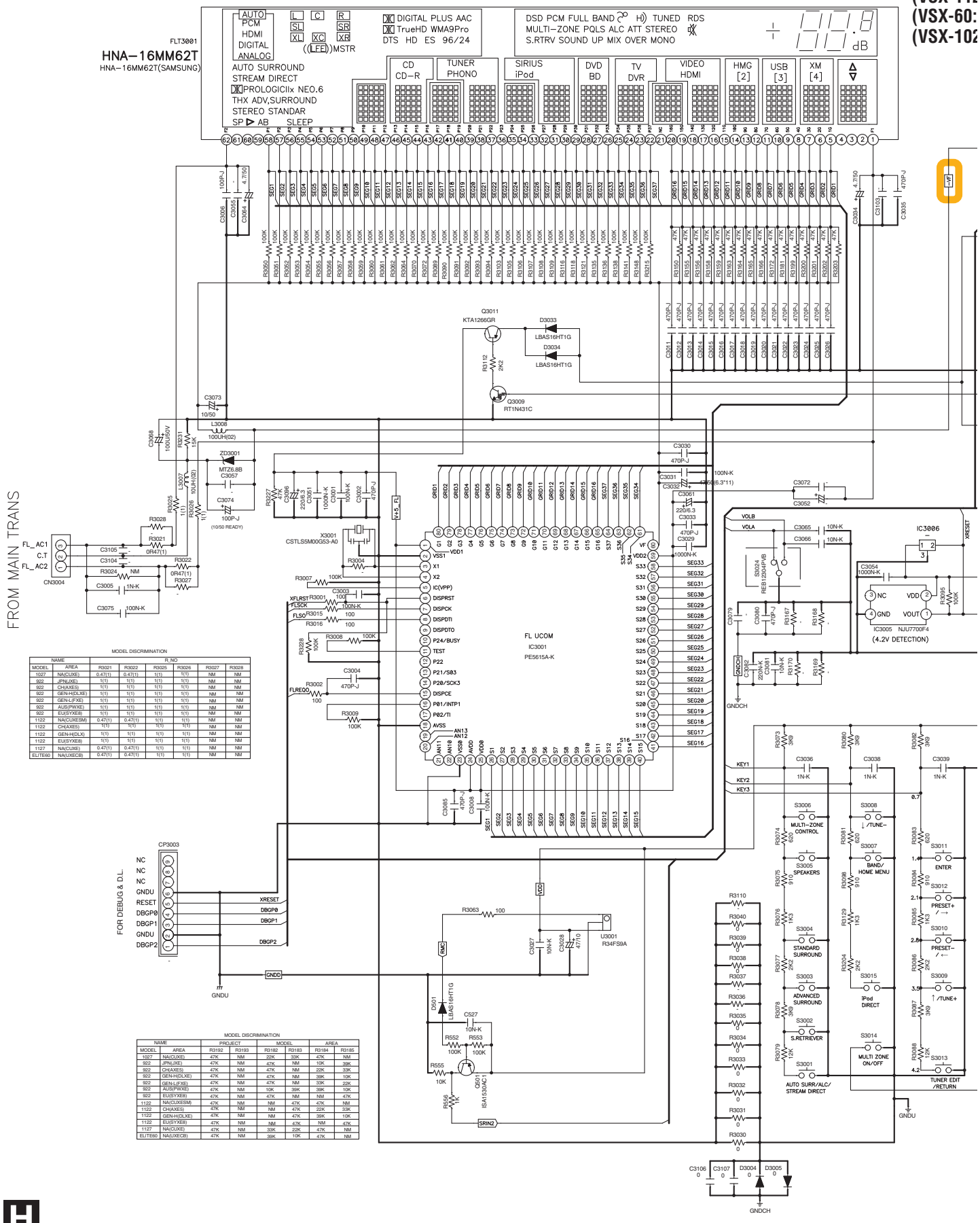
A CP13

A CP14

(HP) : Audio Signal Route (Headphone L ch)

10.18 FRONT and POWER ASSYS

FRONT ASSY (VSX-112 (VSX-112 (VSX-60: (VSX-102

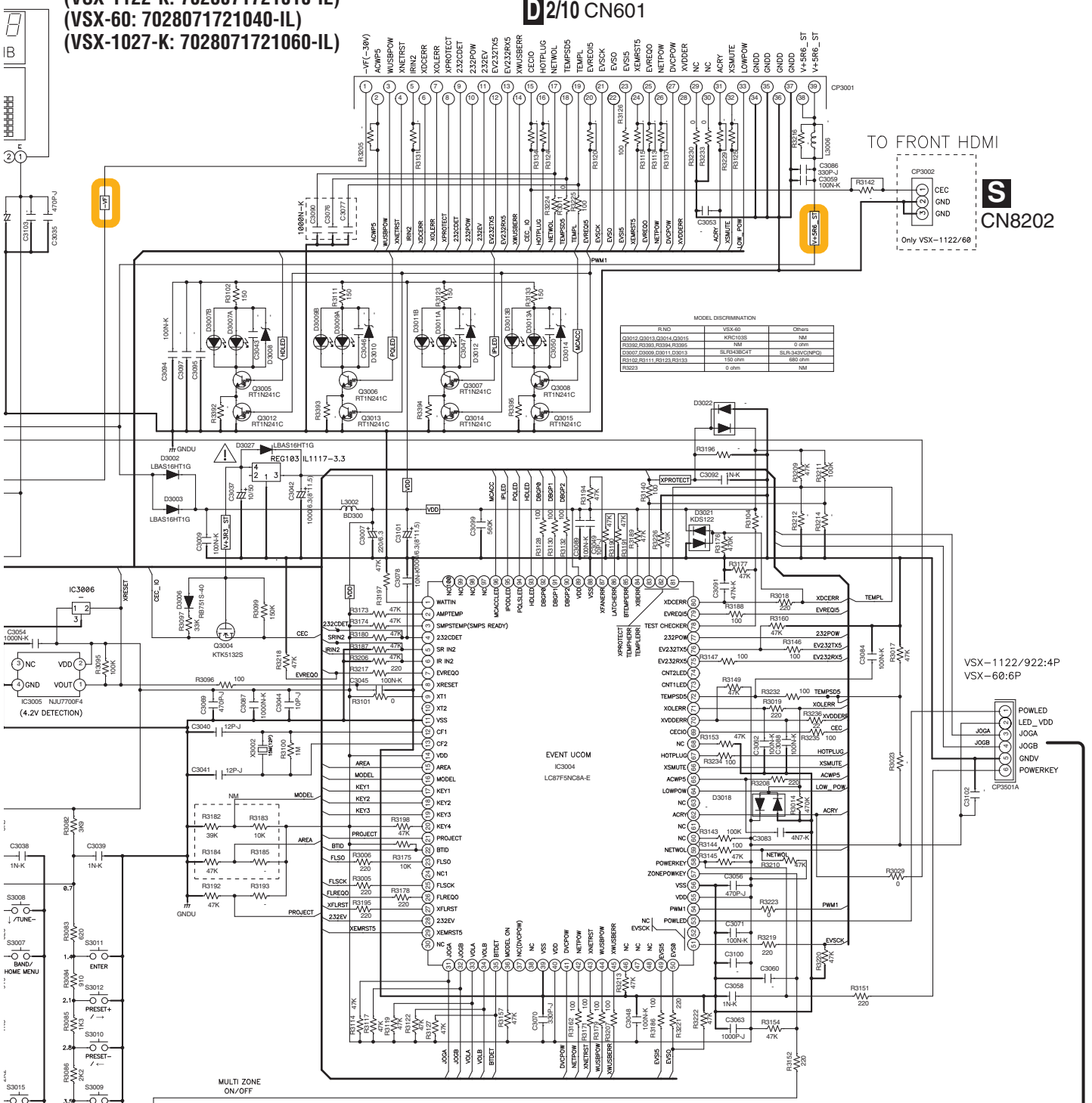


NAME		R_NO					
MODEL	AREA	R3021	R3022	R3025	R3026	R3027	R3028
1027	NA(CUXE)	0.47(1)	0.47(1)	1(1)	1(1)	NM	NM
922	JPN(UXE)	1(1)	1(1)	1(1)	1(1)	NM	NM
922	CH(AXES)	1(1)	1(1)	1(1)	1(1)	NM	NM
922	GEN-H(DLXE)	1(1)	1(1)	1(1)	1(1)	NM	NM
922	GEN-L(FXE)	1(1)	1(1)	1(1)	1(1)	NM	NM
922	AUS(PWXE)	1(1)	1(1)	1(1)	1(1)	NM	NM
922	EU(SYXE8)	1(1)	1(1)	1(1)	1(1)	NM	NM
1122	NA(CUXESM)	0.47(1)	0.47(1)	1(1)	1(1)	NM	NM
1122	CH(AXES)	1(1)	1(1)	1(1)	1(1)	NM	NM
1122	GEN-H(DLX)	1(1)	1(1)	1(1)	1(1)	NM	NM
1122	EU(SYXE8)	1(1)	1(1)	1(1)	1(1)	NM	NM
1127	NA(CUXE)	0.47(1)	0.47(1)	1(1)	1(1)	NM	NM
ELITE60	NA(UXECB)	0.47(1)	0.47(1)	1(1)	1(1)	NM	NM

NAME		PROJECT		MODEL		AREA	
MODEL	AREA	R3192	R3193	R3182	R3183	R3184	R3185
1027	NA(CUXE)	47K	NM	22K	33K	47K	NM
922	JPN(UXE)	47K	NM	47K	NM	10K	39K
922	CH(AXES)	47K	NM	47K	NM	22K	33K
922	GEN-H(DLXE)	47K	NM	47K	NM	39K	10K
922	GEN-L(FXE)	47K	NM	47K	NM	33K	22K
922	AUS(PWXE)	47K	NM	10K	39K	39K	10K
922	EU(SYXE8)	47K	NM	47K	NM	NM	47K
1122	NA(CUXESM)	47K	NM	NM	47K	47K	NM
1122	CH(AXES)	47K	NM	NM	47K	22K	33K
1122	GEN-H(DLXE)	47K	NM	NM	47K	39K	10K
1122	EU(SYXE8)	47K	NM	NM	47K	NM	47K
1127	NA(CUXE)	47K	NM	33K	22K	47K	NM
ELITE60	NA(UXECB)	47K	NM	39K	10K	47K	NM

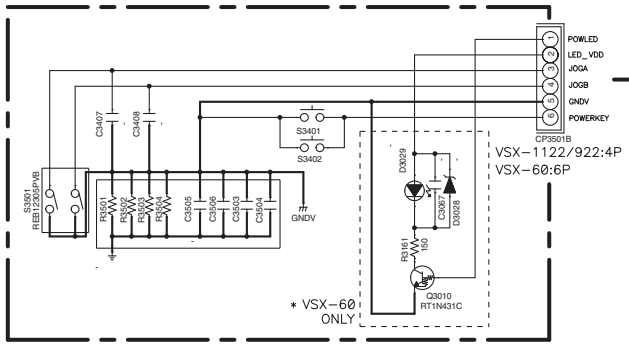
ASSY (VSX-1127-K: 7028071721050-IL)
(VSX-1122-K: 7028071721010-IL)
(VSX-60: 7028071721040-IL)
(VSX-1027-K: 7028071721060-IL)

D 2/10 CN601



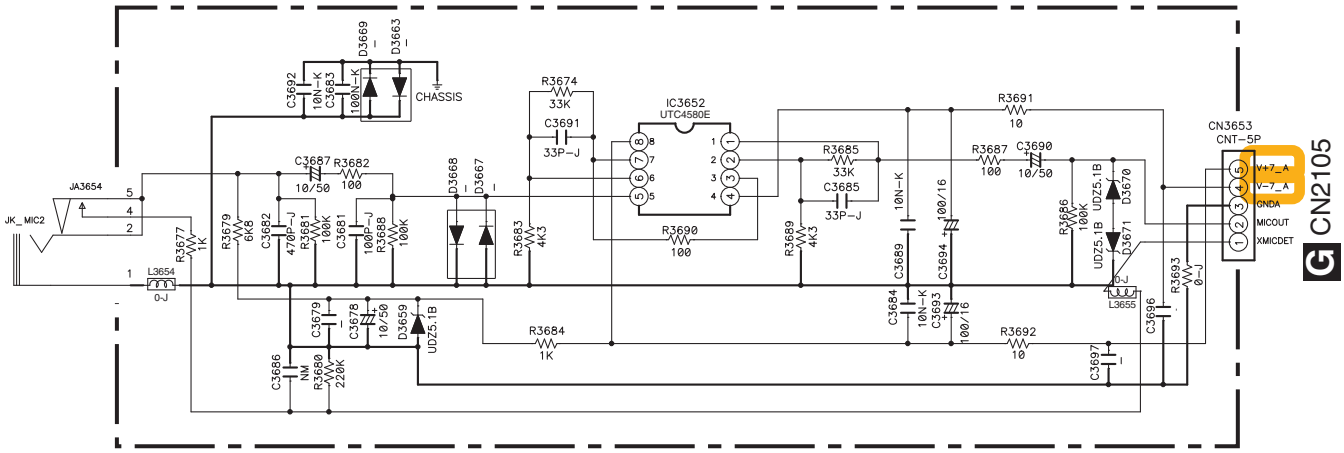
I POWER ASSY

(VSX-1127-K, VSX-1122-K,
VSX-1027-K: 7028071722010-IL)
(VSX-60: 7028071722040-IL)

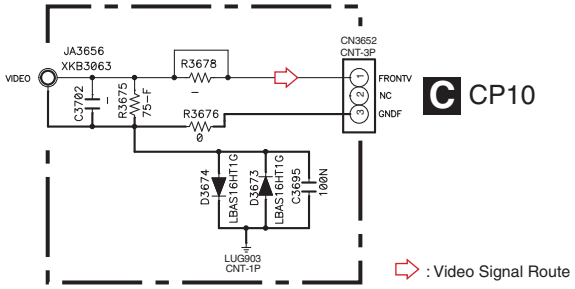


10.19 MIC, FVIDEO and HP ASSYS

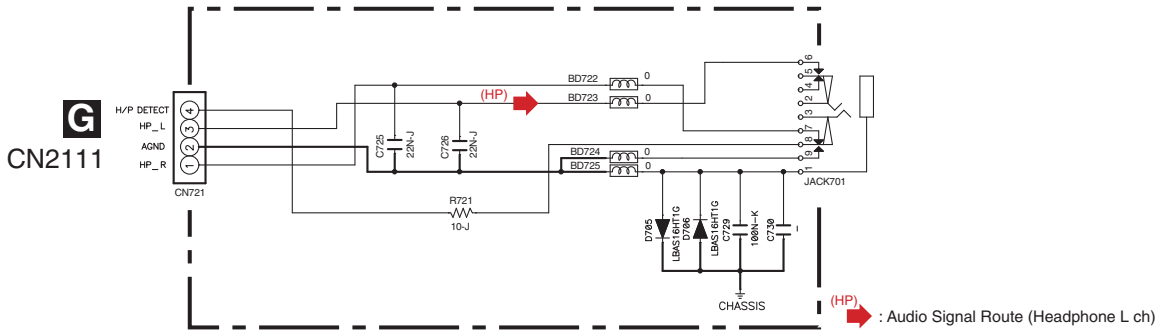
J MIC ASSY (7028071723040-IL)



K FVIDEO ASSY (7028071724040-IL)



L HP ASSY (7028071725040-IL)



10.20 G-L, G-R, WG-A, WG-B, CCG and BTCNT ASSYS

M G-L ASSY (7028071713040-IL)

O WG-A ASSY (7028071715040-IL)

CLAMP908
CLAMP_WIRE

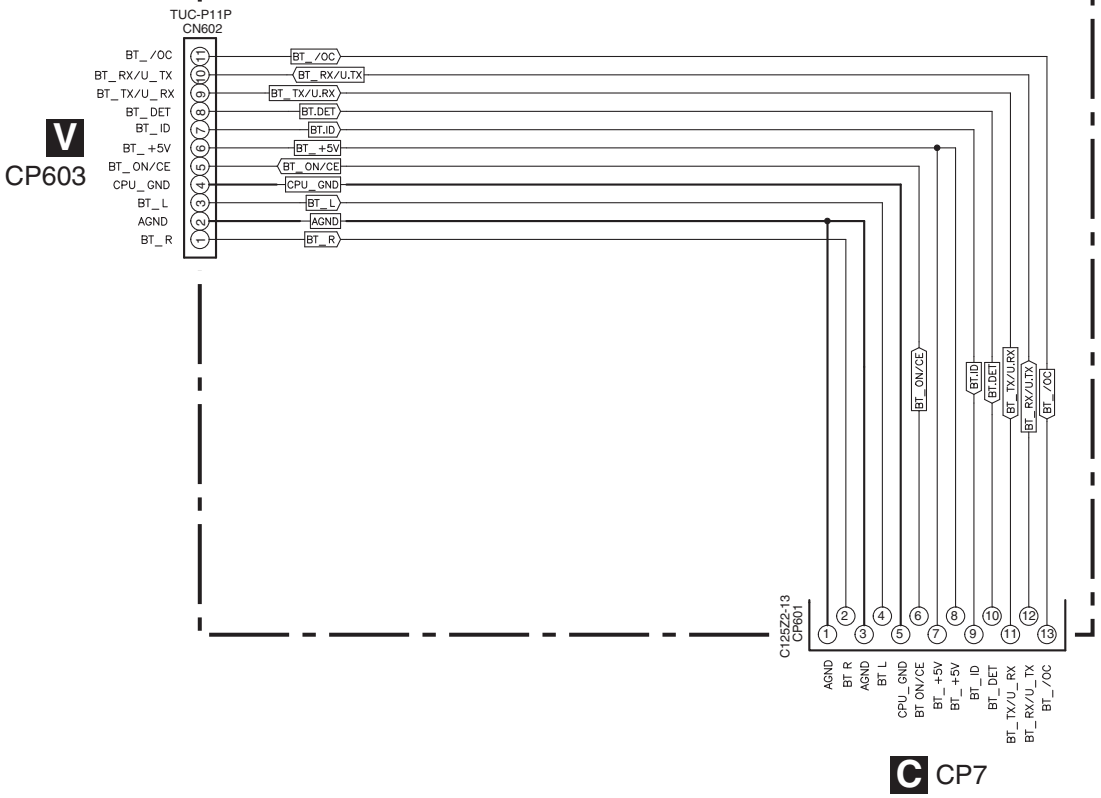
Q CCG ASSY (7028071775040-IL)

N G-R ASSY (7028071714040-IL)

P WG-B ASSY (7028071716040-IL)

BKT3 BKT2

R BT CNT ASSY (7028071774040-IL)

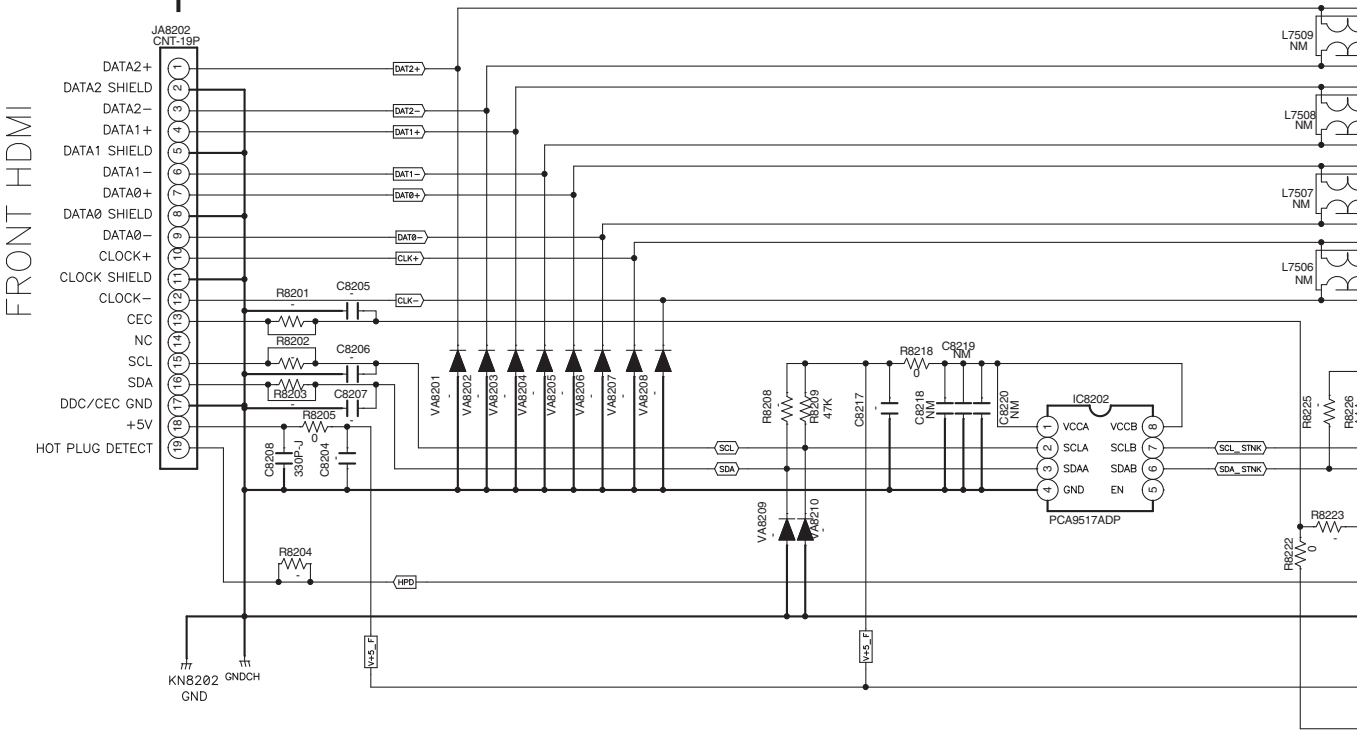


M **N** **O** **P** **Q** **R**

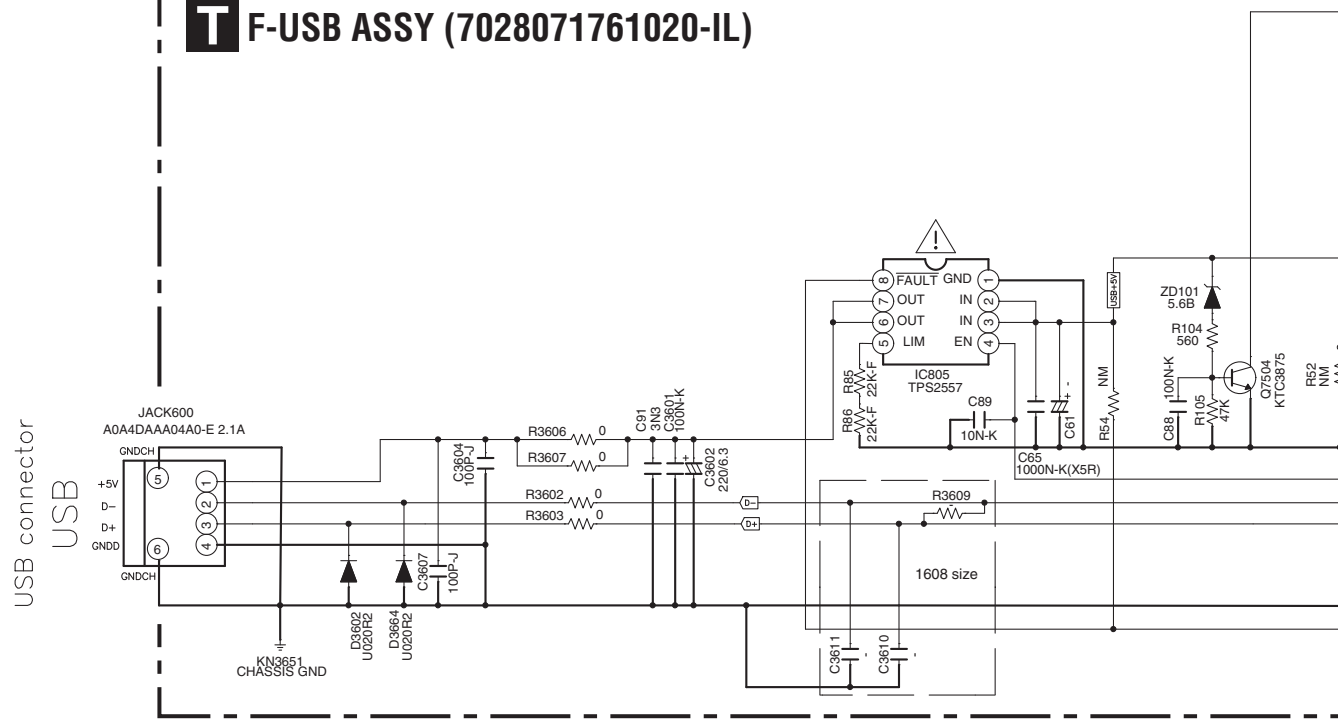
10.21 FHDMI and F-USB ASSYS

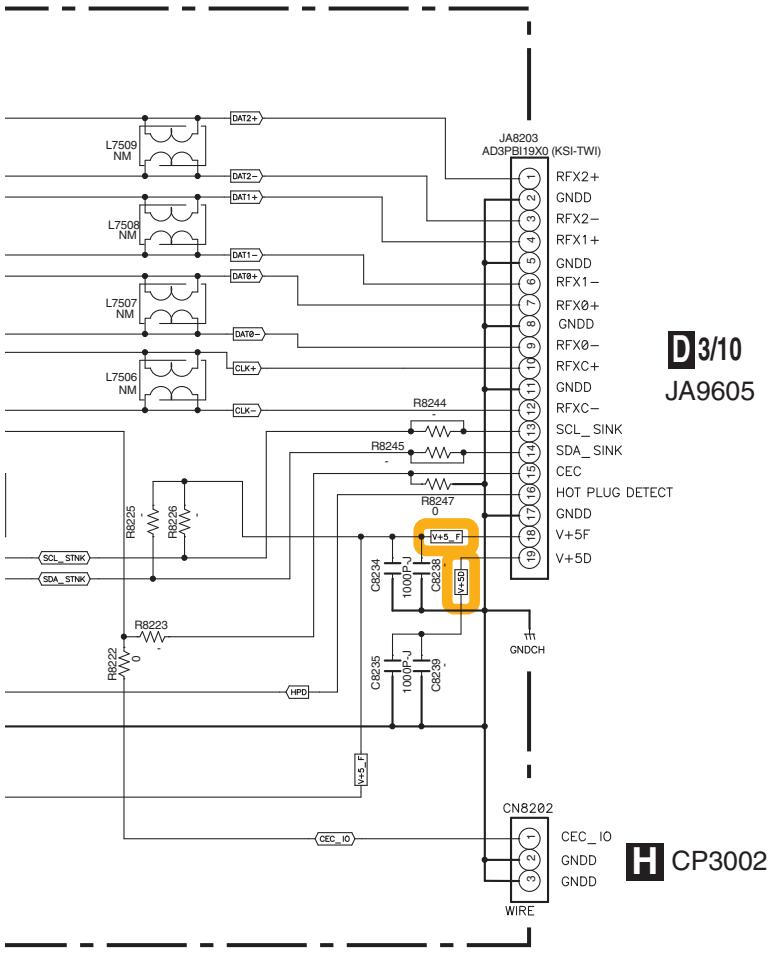
S FHDMI ASSY (7028071791040-IL)

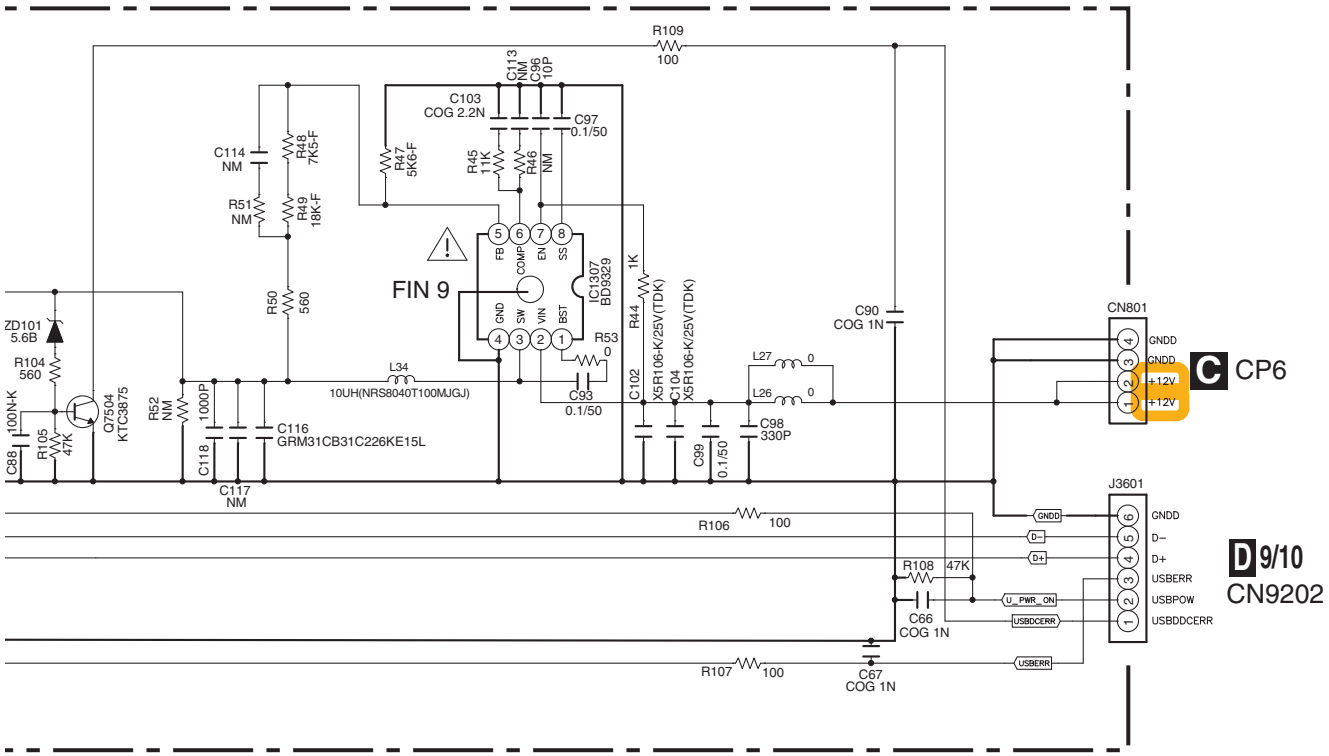
(VSX-1127-K, VSX-1122-K, VSX-60 ONLY)



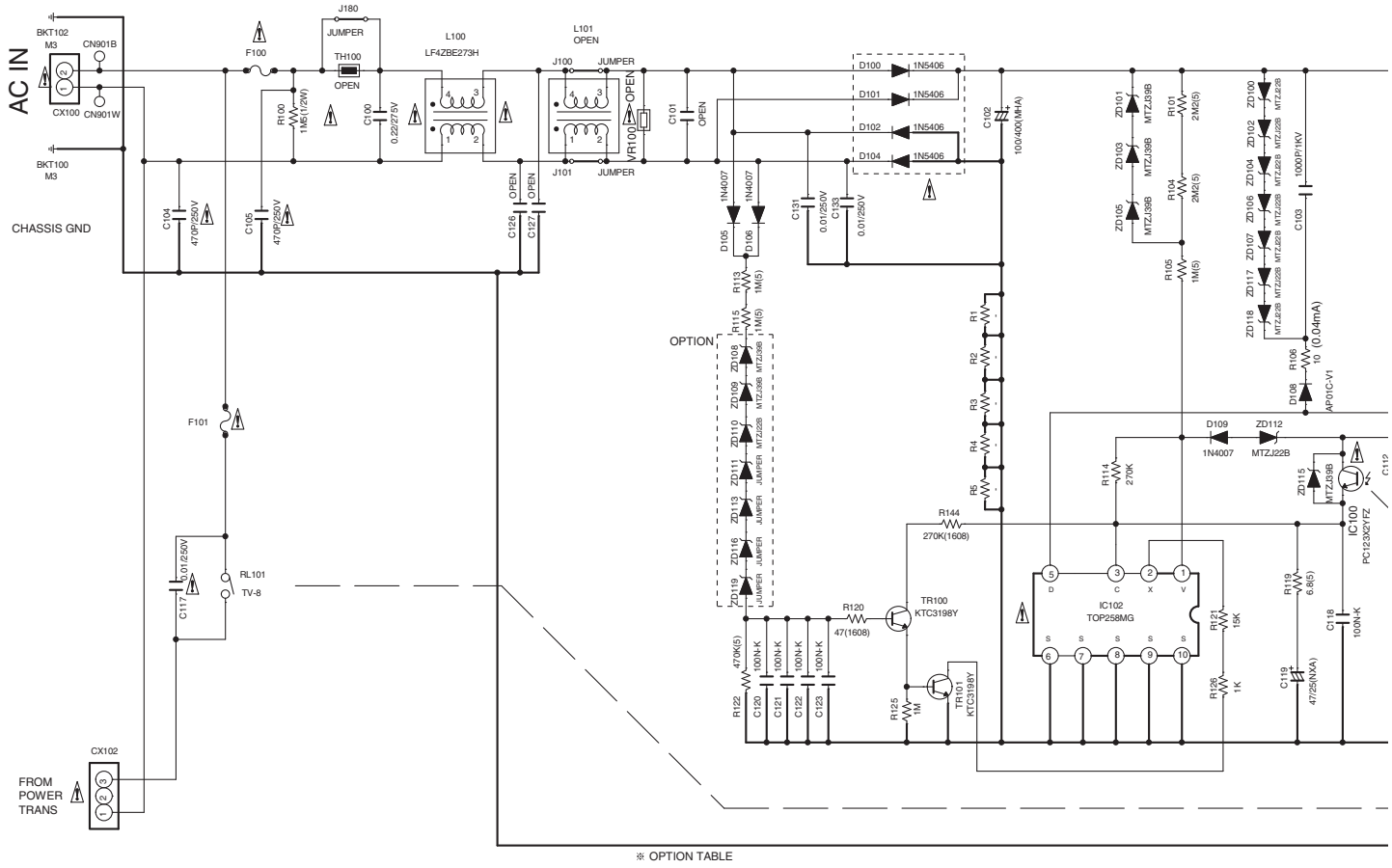
T F-USB ASSY (7028071761020-IL)




JA8203
AD3PBI19X0 (KSI-TWI)
RFX2+
GNDD
RFX2−
RFX1+
GNDD
RFX1−
RFX0+
GNDD
RFX0−
RFXC+
GNDD
RFXC−
SCL_SINK
SDA_SINK
CEC
HOT PLUG DETECT
GNDD
V+5F
V+5D
D 3/10
JA9605
L7509 NM
L7508 NM
L7507 NM
L7506 NM
DAT2+
DAT2−
DAT1+
DAT1−
DAT0+
DAT0−
CLK+
CLK−
R8244
R8245
R8247 0
R8225
R8226
R8223
R8222 0
C8234 1000P-J
C8238
C8235 1000P-J
C8239
V+5_F
V+5D
SCL_STNK
SDA_STNK
HPD
GNDCH
CEC_IO
CN8202
CEC_IO
GNDD
GNDD
WIRE
H CP3002


R109 100
C113 NM
C96 10P
C103 COG 2.2N
C97 0.1/50
C114 NM
R48 7K5-F
R47 5K6-F
R45 11K
R46 NM
R51 NM
R49 18K-F
R50 560
FIN 9
IC1307 BD9329
FB COMP EN SS
GND SW VIN BST
R44 1K
R53 0
C93 0.1/50
L34 10UH(NRS8040T100MJGJ)
C102 X5R106-K/25V(TDK)
C104 X5R106-K/25V(TDK)
C99 0.1/50
L27 0
L26 0
C98 330P
C90 COG 1N
ZD101 5.6B
R104 560
C88 100N-K
R105 47K
Q7504 KTC3875
R52 NM
C118 1000P
C116 GRM31CB31C226KE15L
C117 NM
CN801
GNDD
GNDD
+12V
+12V
C CP6
J3601
GNDD
D−
D+
USBERR
USBPOW
USBDDCERR
D 9/10
CN9202
R106 100
R108 47K
C66 COG 1N
R107 100
C67 COG 1N
U_PWR_ON
USBDCERR
USBERR

10.22 SMPS ASSY



※ OPTION TABLE

※ FUSE OPTION

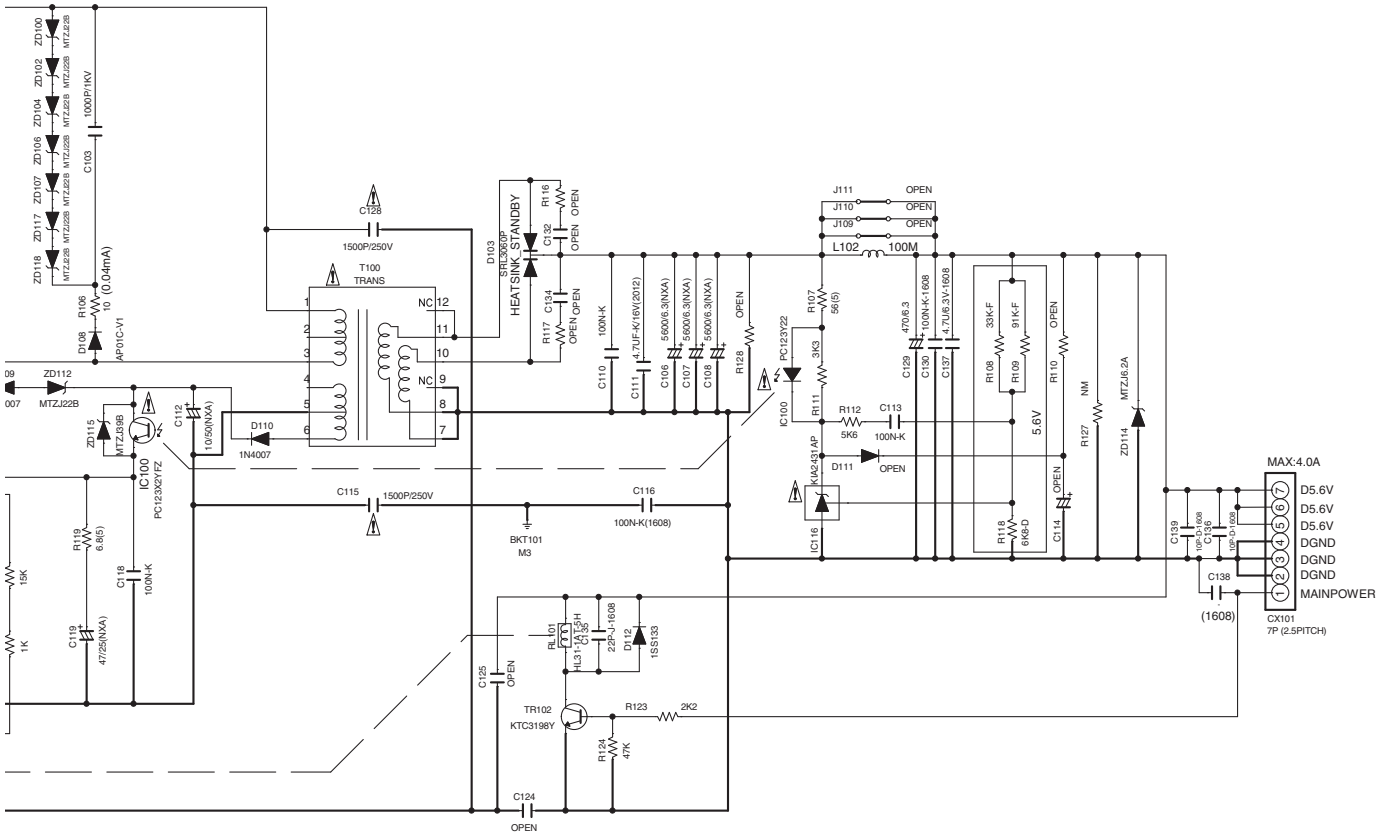
USA/JAPAN/TAIWAN		OTHER	
F100	F101	F100	F101
3.15A	8A	3.15A	6.3A

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

	VSX-60	VSX1122/UK	VSX1122/SY,DL	VSX1127	VSX922/SY,DL,FX,PW,JX	VSX922/AX	VS
R5	JUMPER	OPEN	JUMPER	OPEN	JUMPER	OPEN	O
LUG903,904	2P LUG	OPEN	2P LUG	OPEN	2P LUG	OPEN	O
CX100	OPEN	JE202B1T2	OPEN	JE202B1T2	OPEN	JE202B1T2	JE2

U SMPS ASSY

(VSX-1127-K, VSX-1122-K, VSX-1027-K: 7028071772010-IL)
(VSX-60: 7028071772040-IL)



ZD105	R101	R104	R105	R114	R1	R2	R3	R4
MTZJ39B	2M2 (5)	2M2 (5)	1M (5)	270K	JUMPER	OPEN	OPEN	OPEN
OPEN	OPEN	OPEN	OPEN	56K	OPEN	JUMPER	OPEN	OPEN
MTZJ39B	2M2 (5)	2M2 (5)	1M (5)	270K	OPEN	OPEN	JUMPER	OPEN
MTZJ39B	2M2 (5)	2M2 (5)	1M (5)	270K	OPEN	OPEN	OPEN	JUMPER

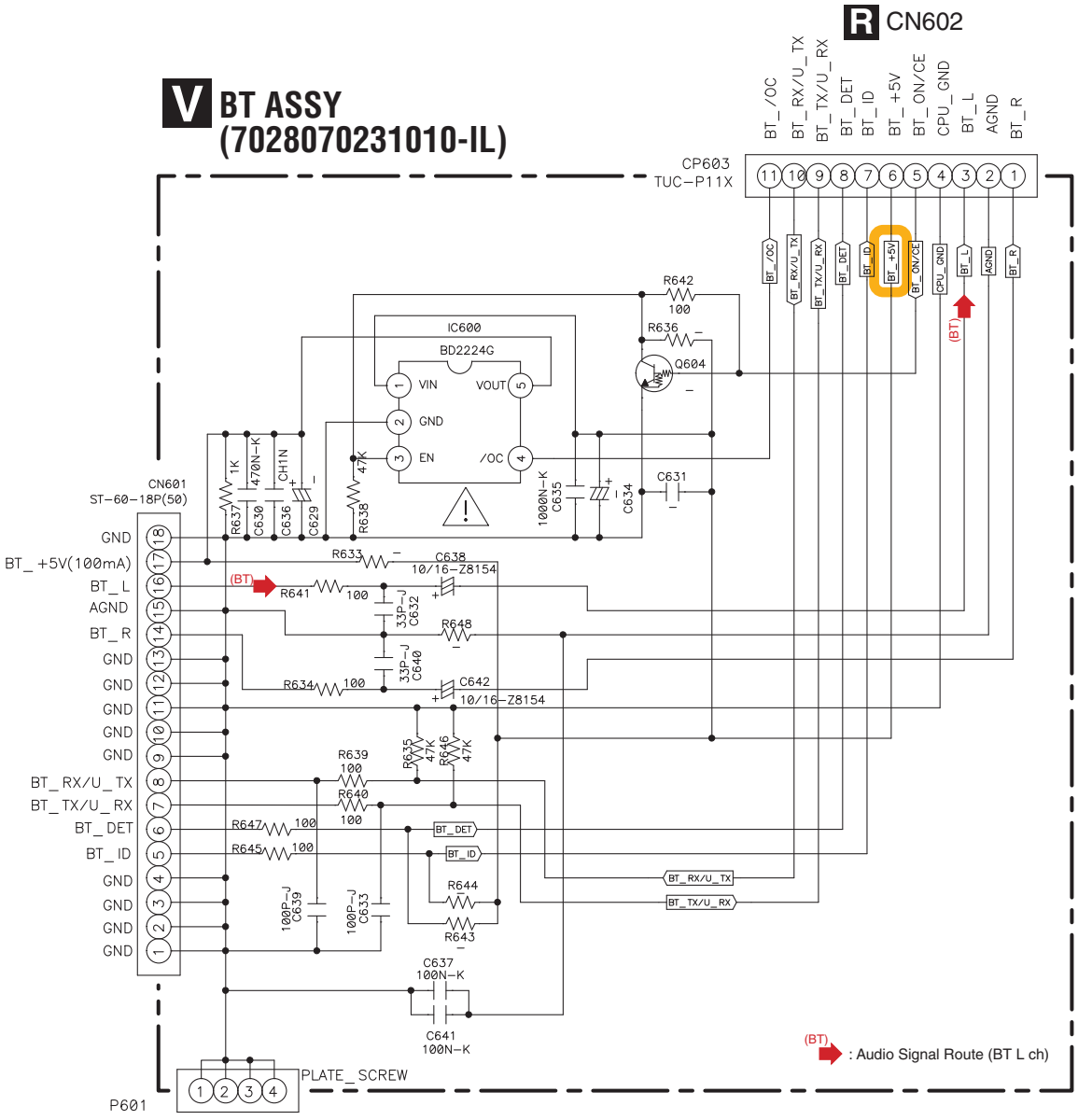
W,JX	VSX922/AX	VSX1027
	OPEN	OPEN
	OPEN	OPEN
	JE202B1T2	JE202B1T2

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

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

NOTES
1. Resistor values are indicated in ohms unless otherwise specified
[k = 1.000 m = 1.000.000]
2. Capacitor values are indicated in microfarades unless otherwise specified.
[p = micro−microfarades]
3. : These resistor are to be segregated from printed wiring board or other acessible parts.
CAUTION
Safety precaution to be followed during servicing
1] Since those parts marked with are critical parts for safety. use only the one described in the parts list
2] Before returning the set to the customer make appropriate leakage current or resistance measurements to determine the exposed parts are prorerly insulated from the supply circuit.

10.23 BT ASSY


V BT ASSY
(7028070231010-IL)
R CN602
CP603
TUC-P11X
BT_ /OC
BT_ RX/U_ TX
BT_ TX/U_ RX
BT_ DET
BT_ ID
BT_ +5V
BT_ ON/CE
CPU_ GND
BT_ L
AGND
BT_ R
IC600
BD2224G
VIN
VOUT
GND
EN
/OC
Q604
R642 100
R636
CN601
ST-60-18P(50)
GND
BT_ +5V(100mA)
BT_ L
AGND
BT_ R
BT_ RX/U_ TX
BT_ TX/U_ RX
BT_ DET
BT_ ID
R633
C638 10/16-Z8154
R641 100
C632 33P-J
R648
C640 33P-J
R634 100
C642 10/16-Z8154
R635 47K
R646 47K
R639 100
R640 100
R647 100
R645 100
R644
R643
C639 100P-J
C633 100P-J
C637 100N-K
C641 100N-K
R637 1K
C630 470N-K
C636 CH1N
C629
R638 47K
C635 1000N-K
C634
C631
PLATE_SCREW
P601
(BT) : Audio Signal Route (BT L ch)

A

B

C

D

E

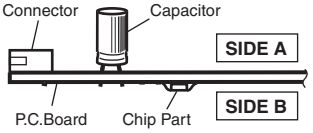
F

11. PCB CONNECTION DIAGRAM
11.1 AUDIO ASSY

NOTE FOR PCB DIAGRAMS :

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

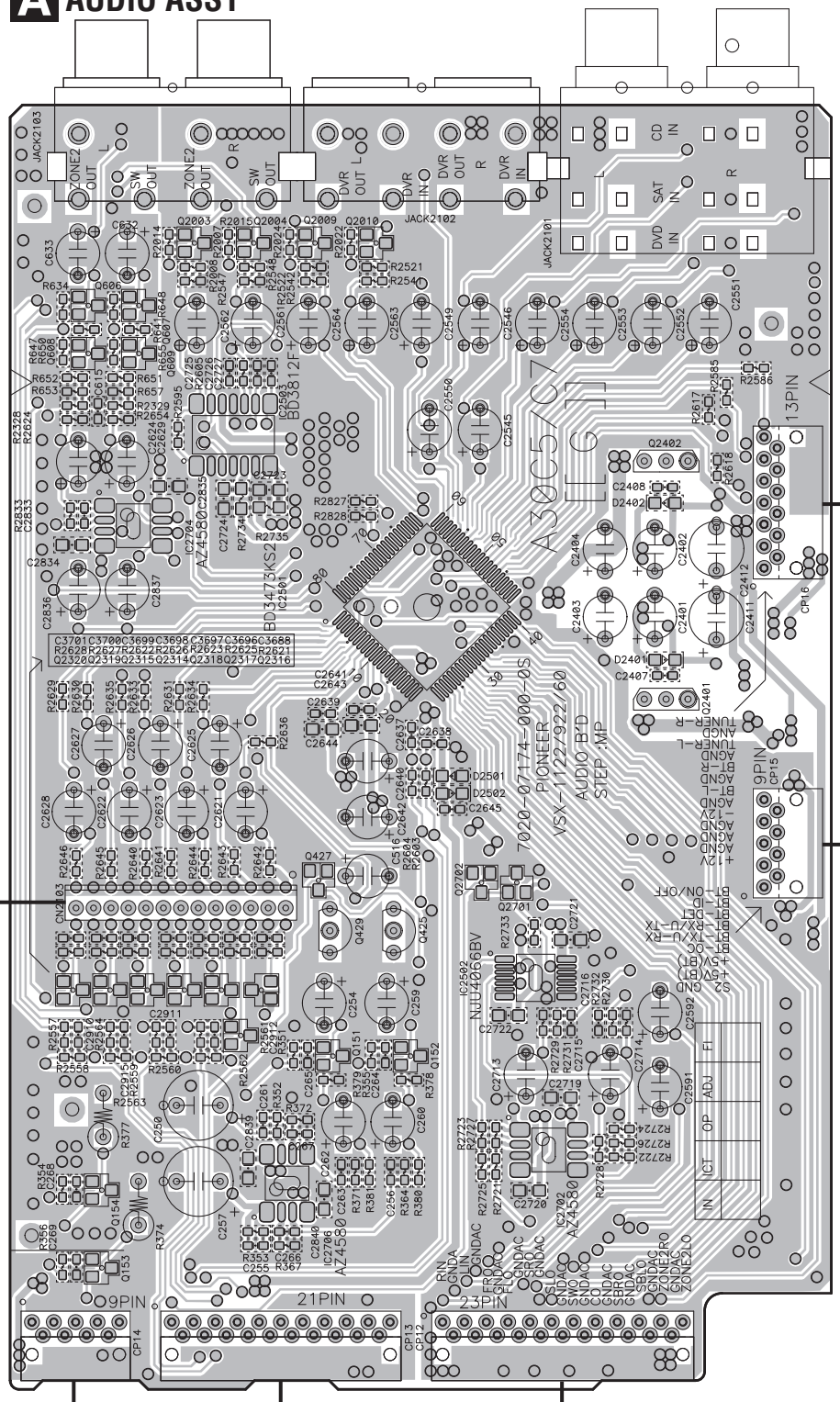
2. View point of PCB diagrams.



SIDE A

SIDE A

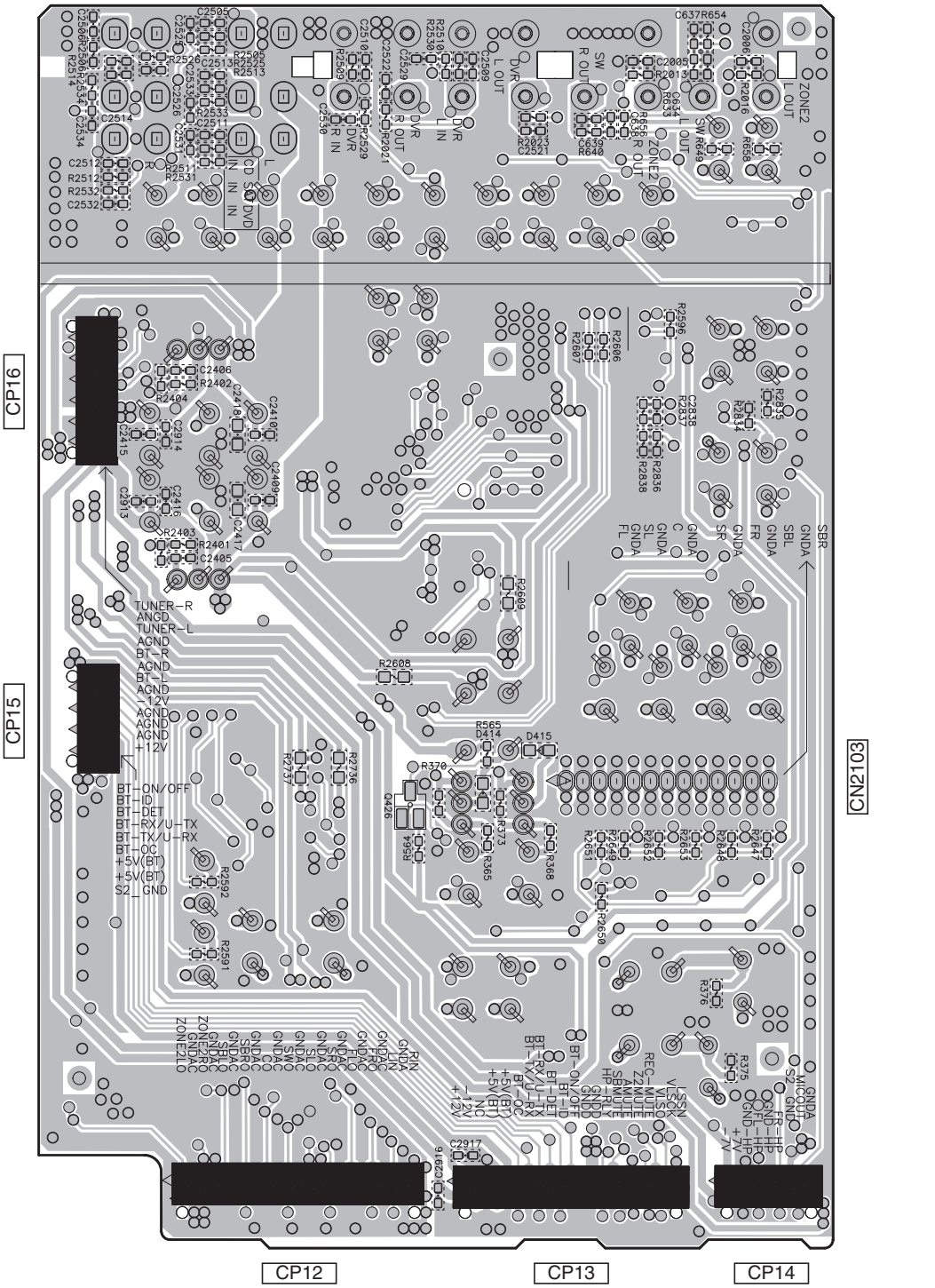
A AUDIO ASSY



Q2004 Q2010
Q2003 Q2009
Q607
Q609
Q608
IC2503
Q2402
IC2704
IC2501
Q2401
Q427 Q2702
Q2701
Q429 Q425
IC2502
Q2314-Q2320
Q151 Q152
IC2702
IC2706
Q154
Q153

SIDE B

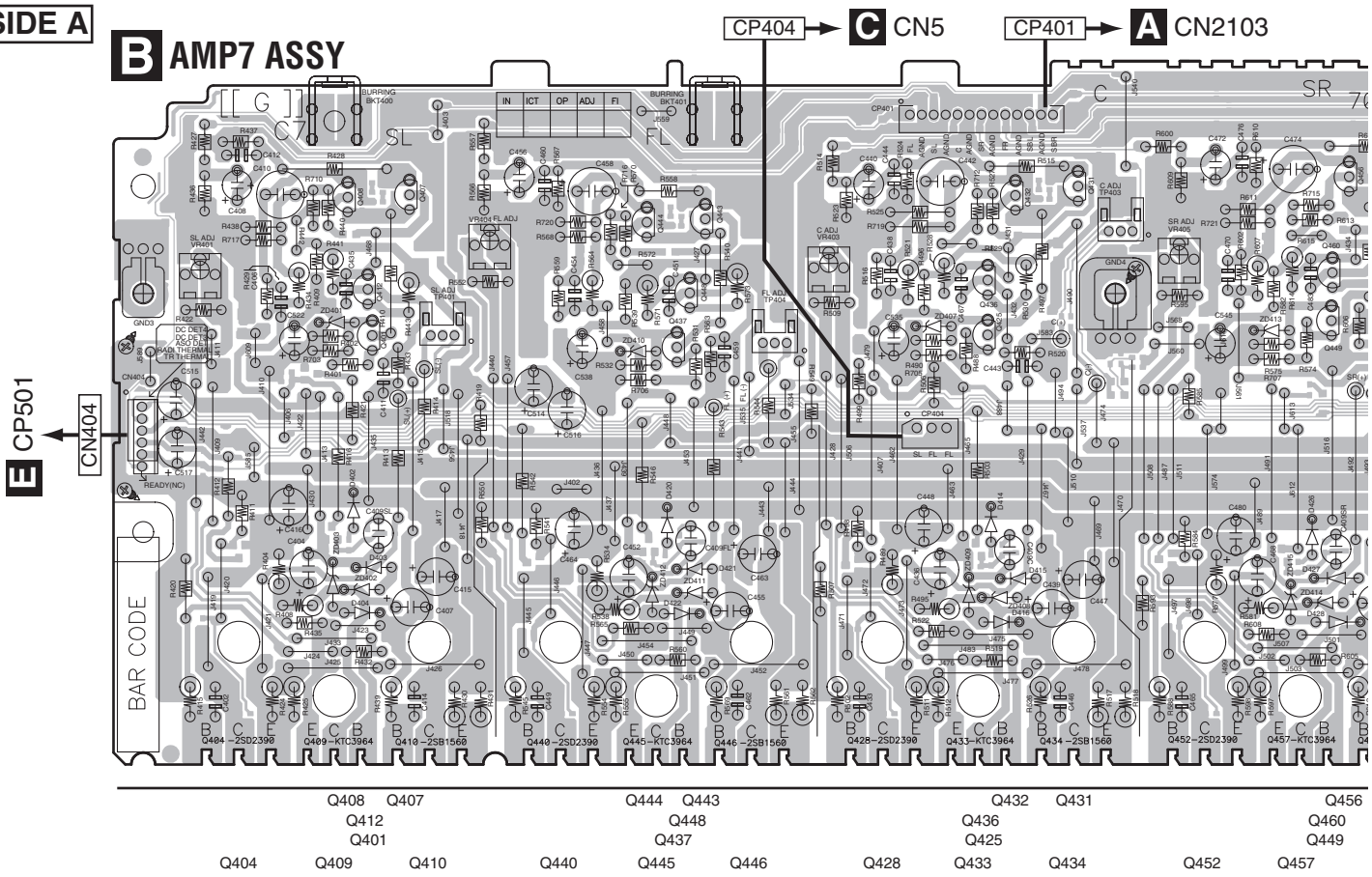
A AUDIO ASSY



11.2 AMP7 ASSY

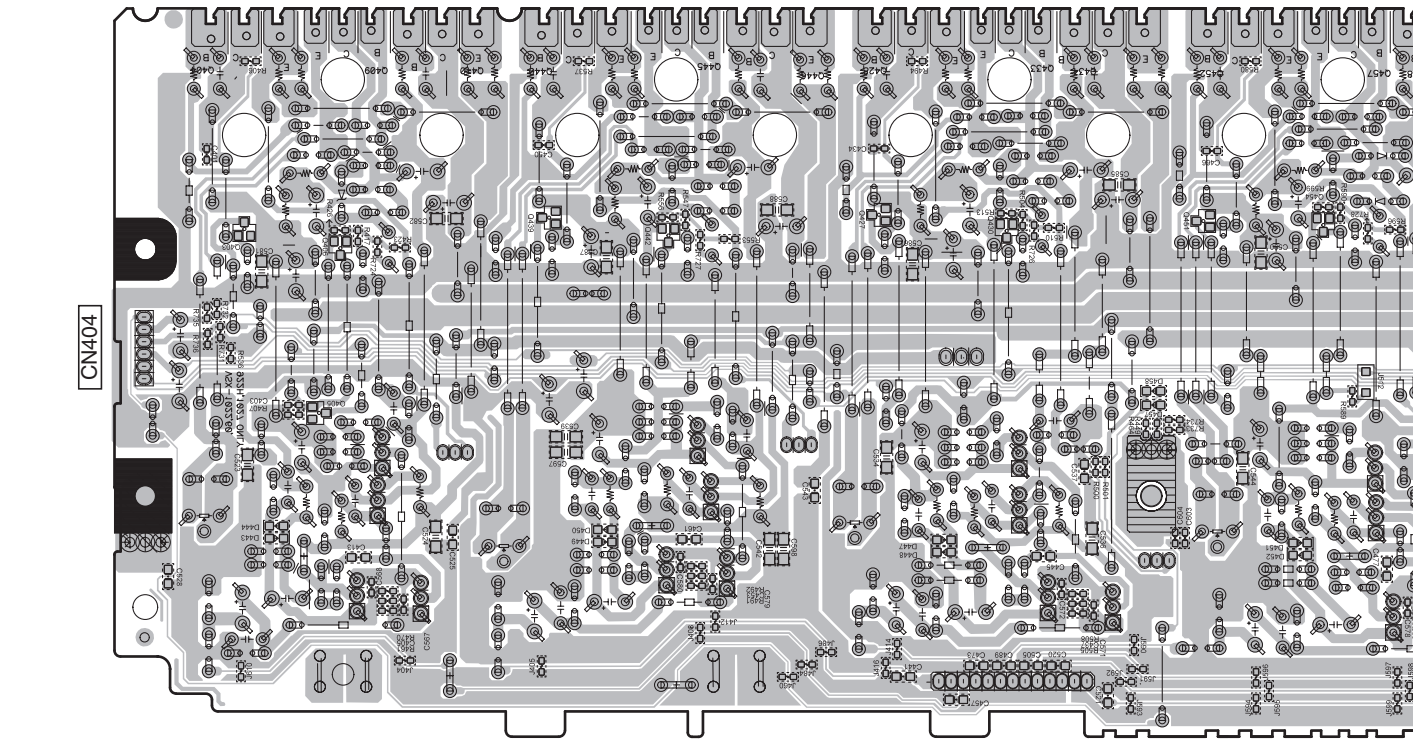
SIDE A

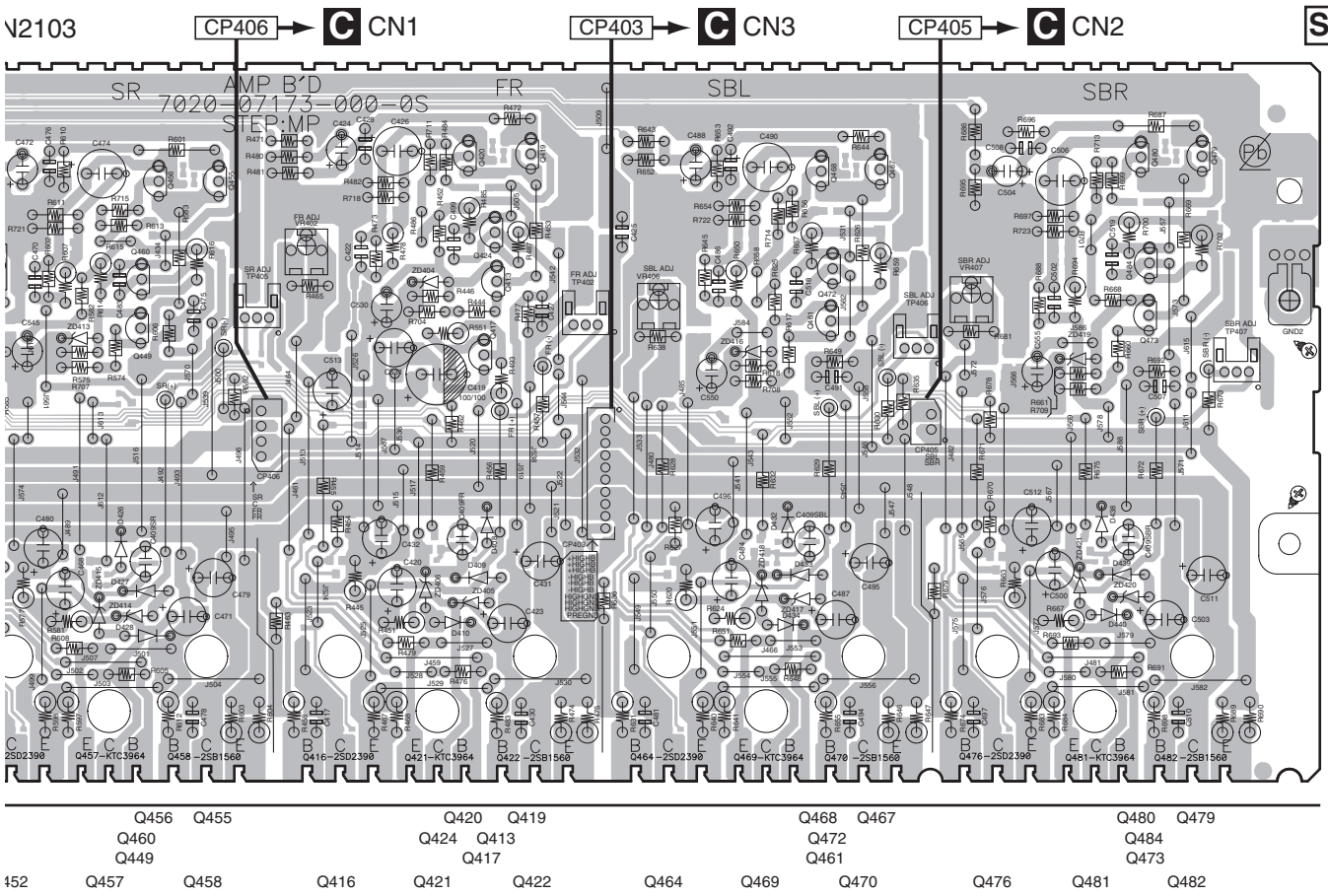
B AMP7 ASSY



SIDE B

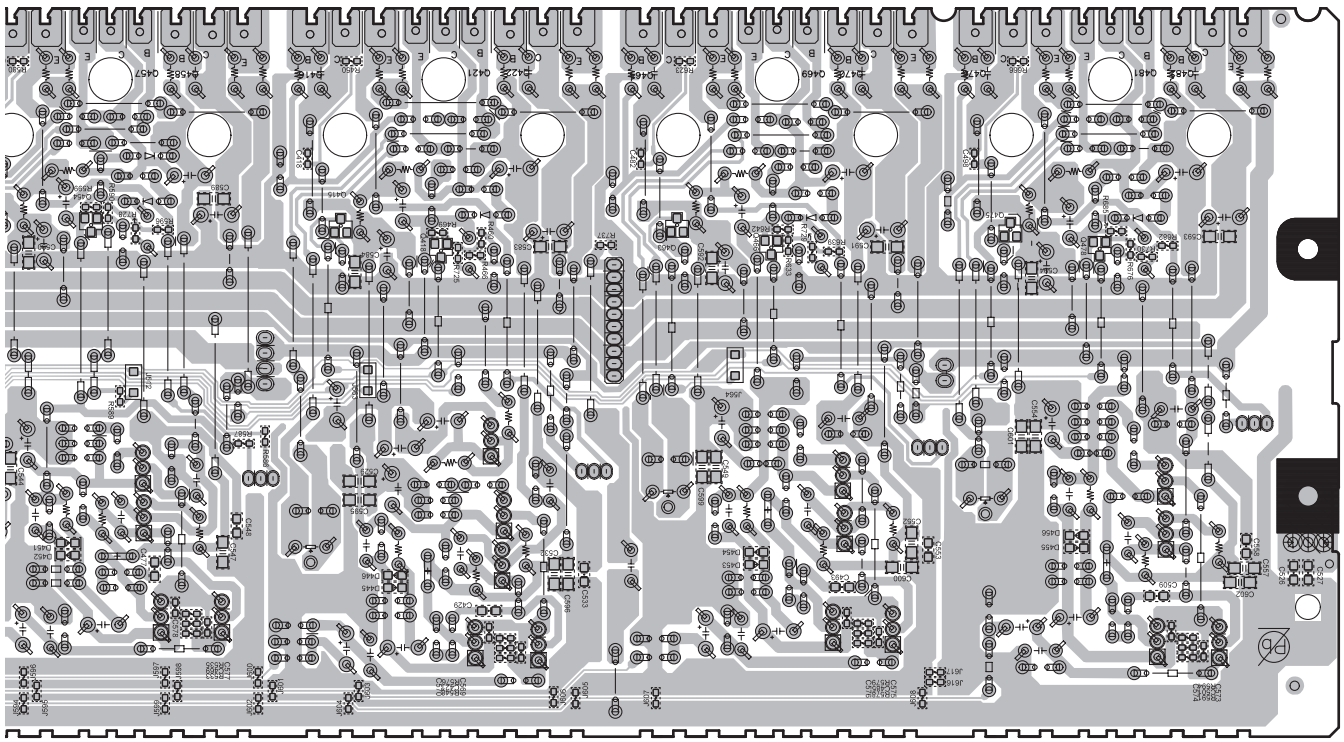
B AMP7 ASSY





Q456 Q455 Q420 Q419 Q468 Q467 Q480 Q479
Q460 Q424 Q413 Q472 Q484
Q449 Q417 Q461 Q473
Q452 Q457 Q458 Q416 Q421 Q422 Q464 Q469 Q470 Q476 Q481 Q482

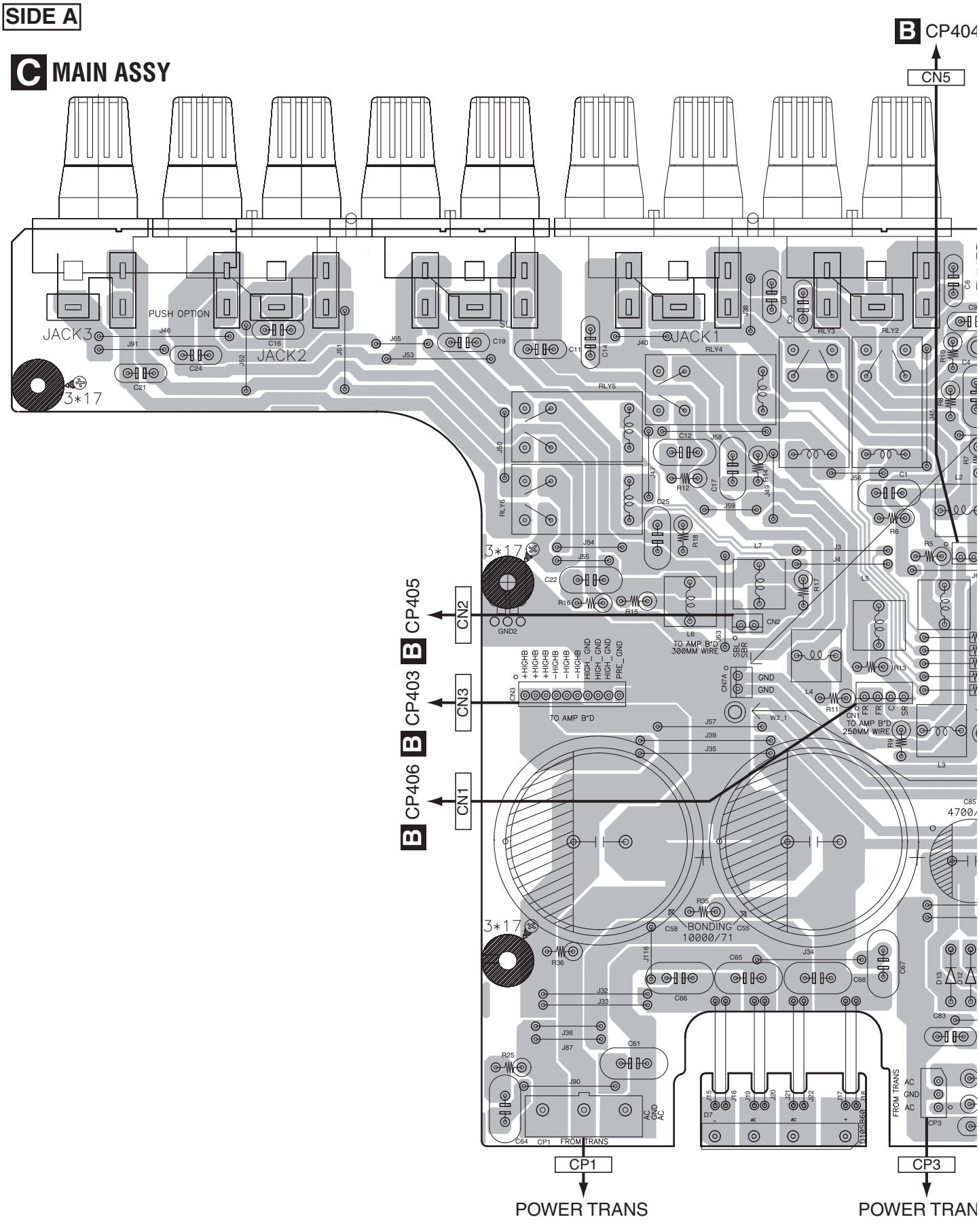
SIDE B



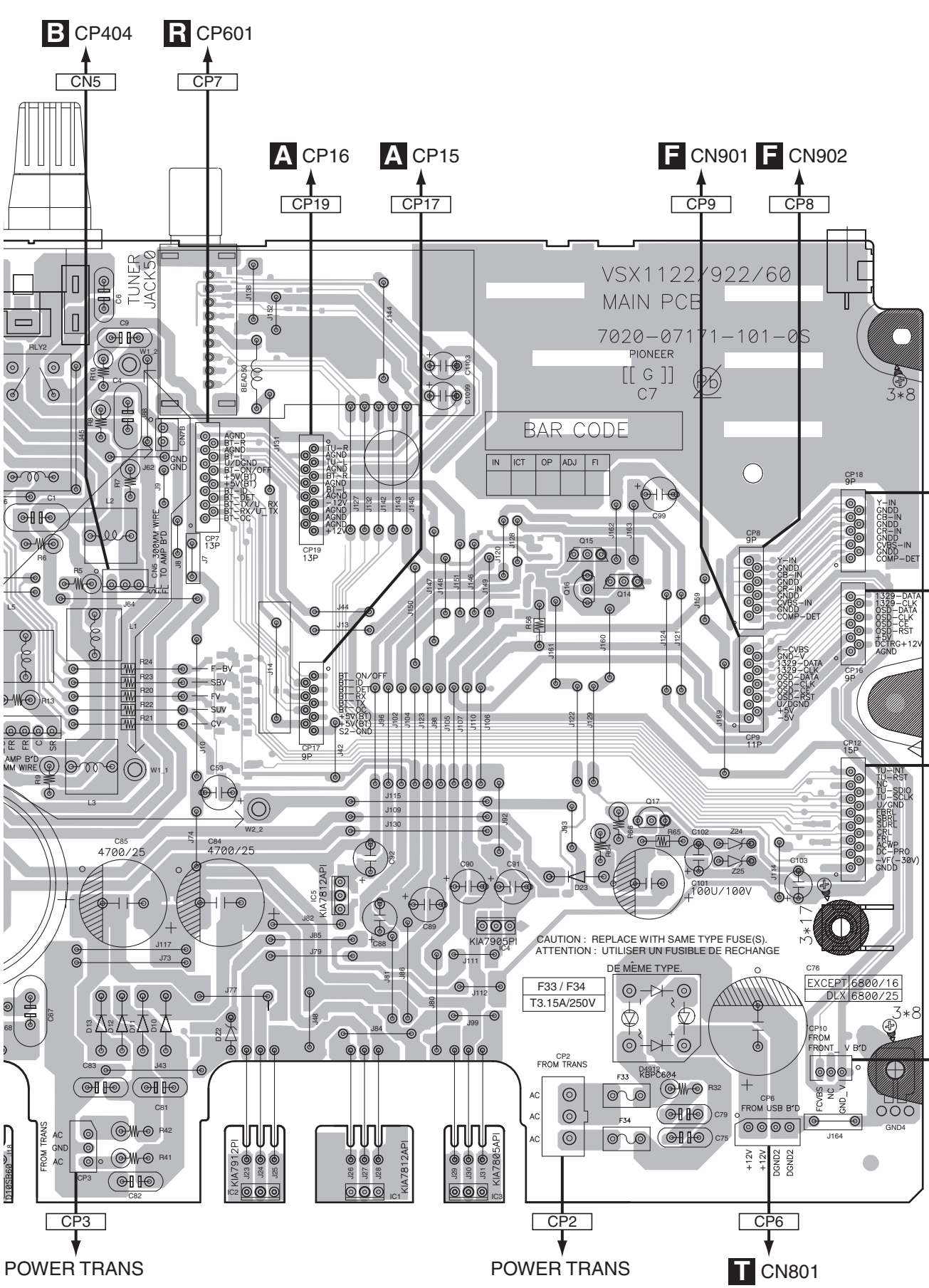
Q454 Q415 Q418 Q463 Q466 Q475 Q478

11.3 MAIN ASSY

SIDE A



SIDE A

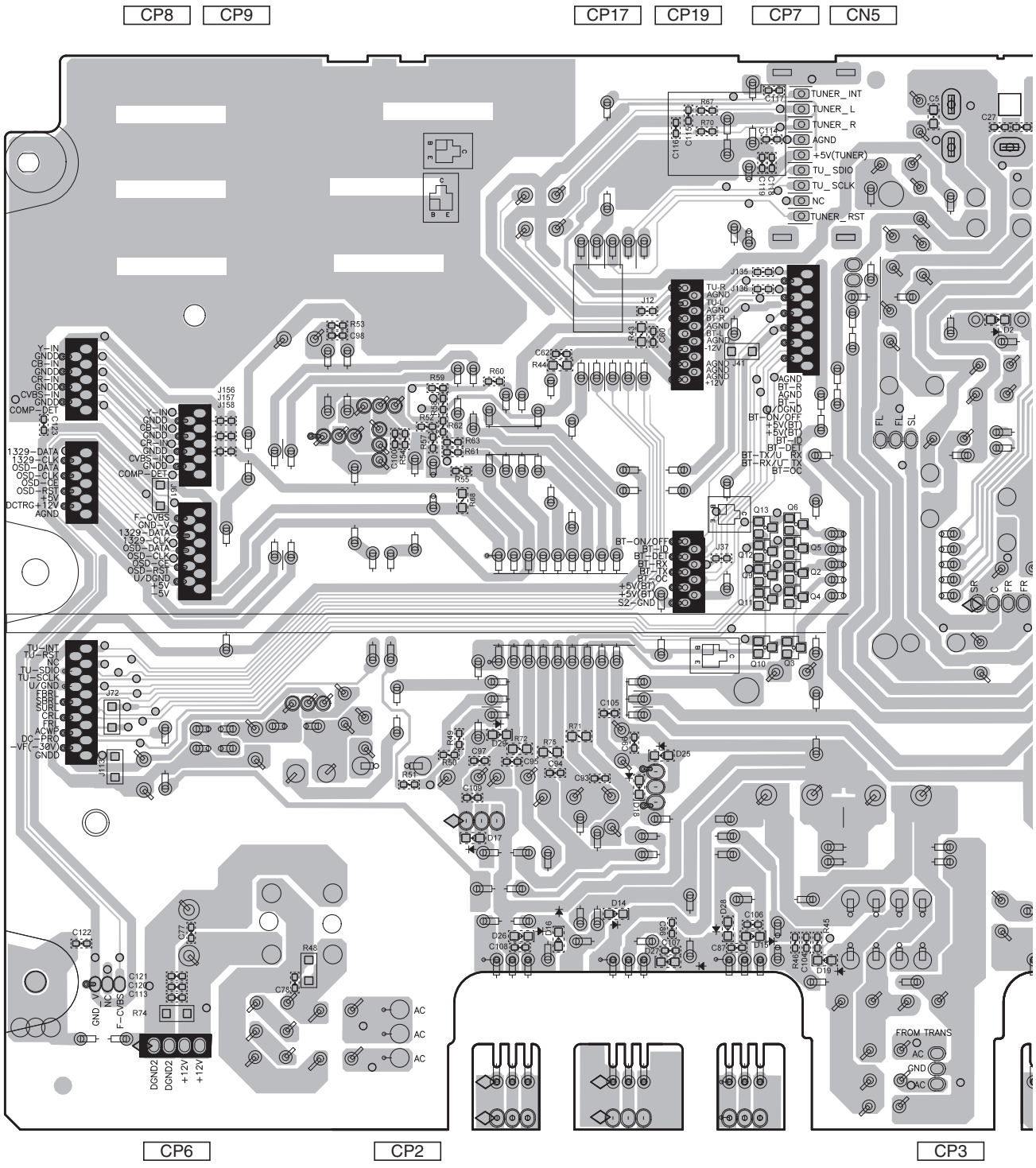


IC2 IC5 IC1 IC3 Q16 Q15 Q14 IC4 Q17

VSX-1127-K

SIDE B

C MAIN ASSY



Q9-Q13 Q2-Q6

SIDE B

A

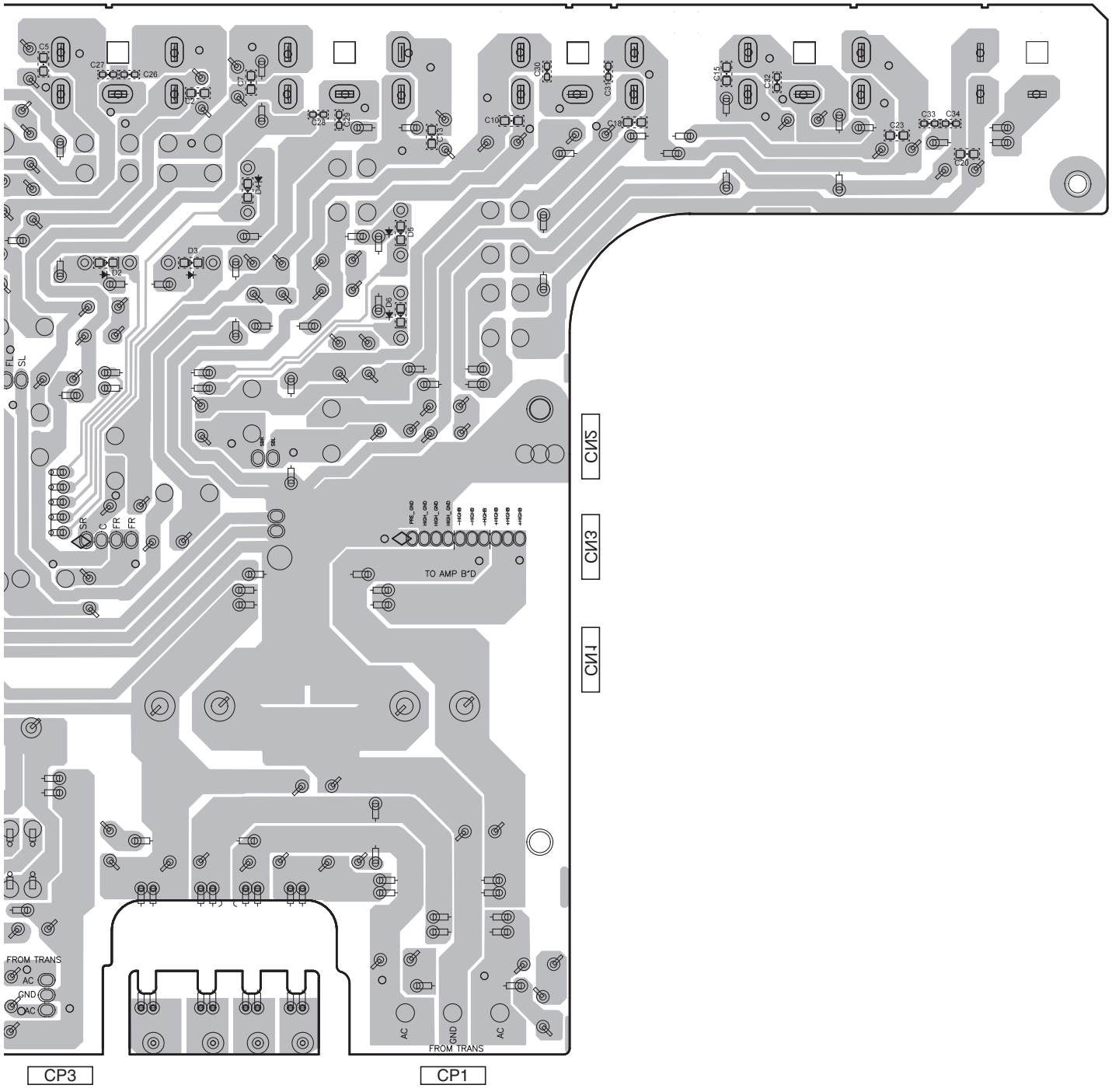
B

C

D

E

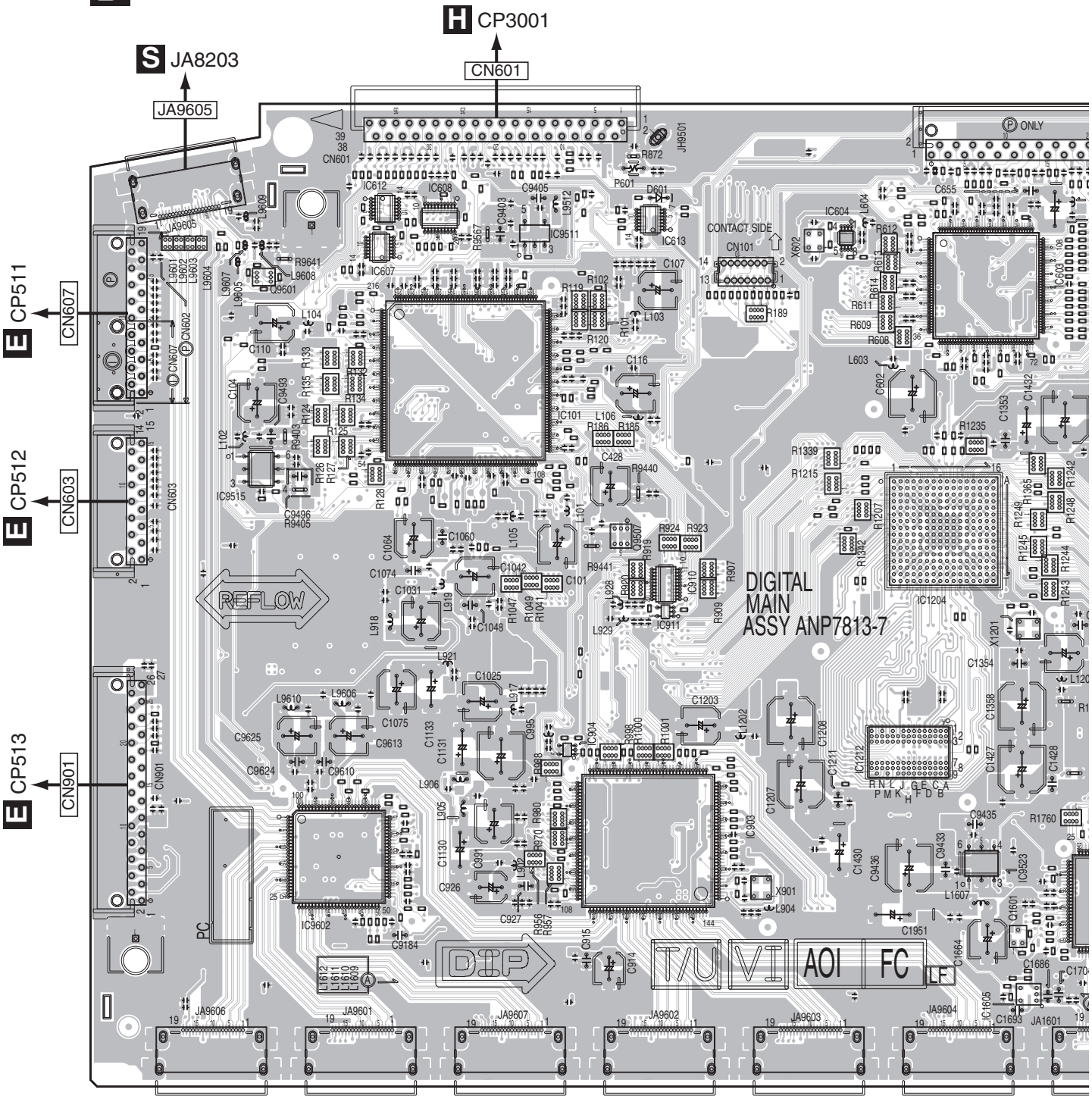
F



11.4 D-MAIN ASSY

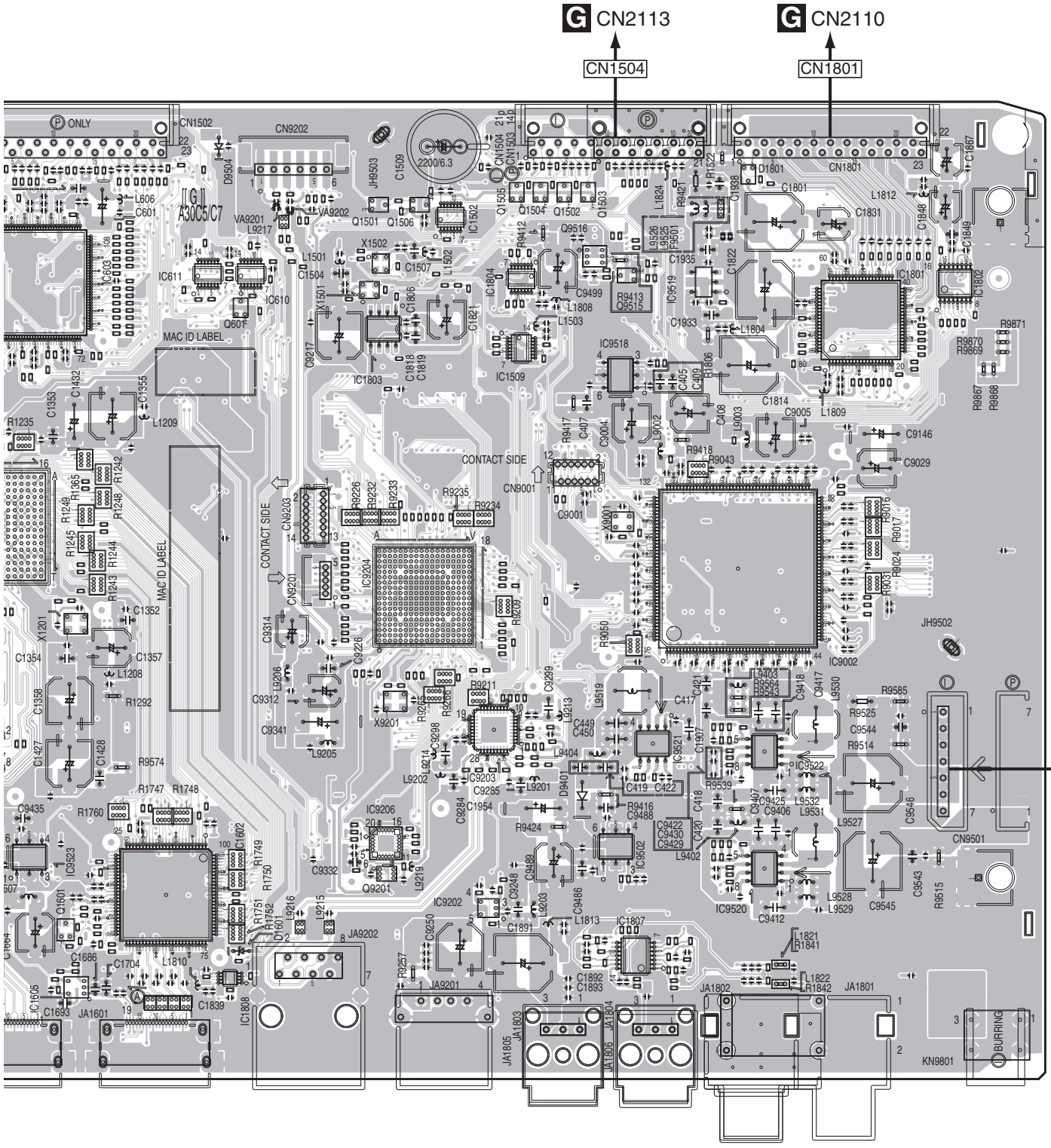
SIDE A

D D-MAIN ASSY



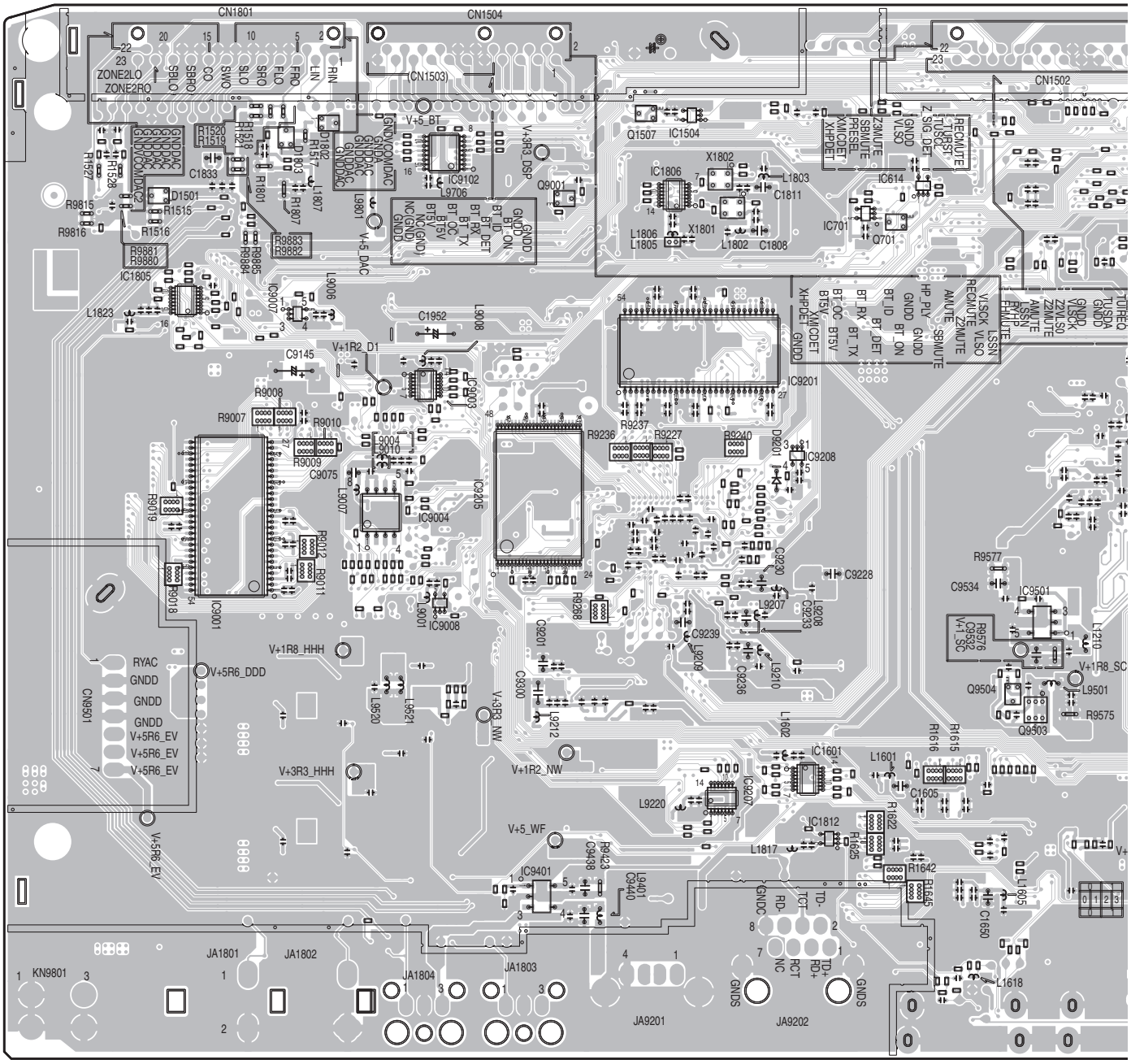
Q9601 IC612 IC608 IC9511 IC613 IC604 IC603
IC9515 IC607 IC101 IC911 IC1204
IC9602 IC903 IC1212
IC9523
Q1601

SIDE A

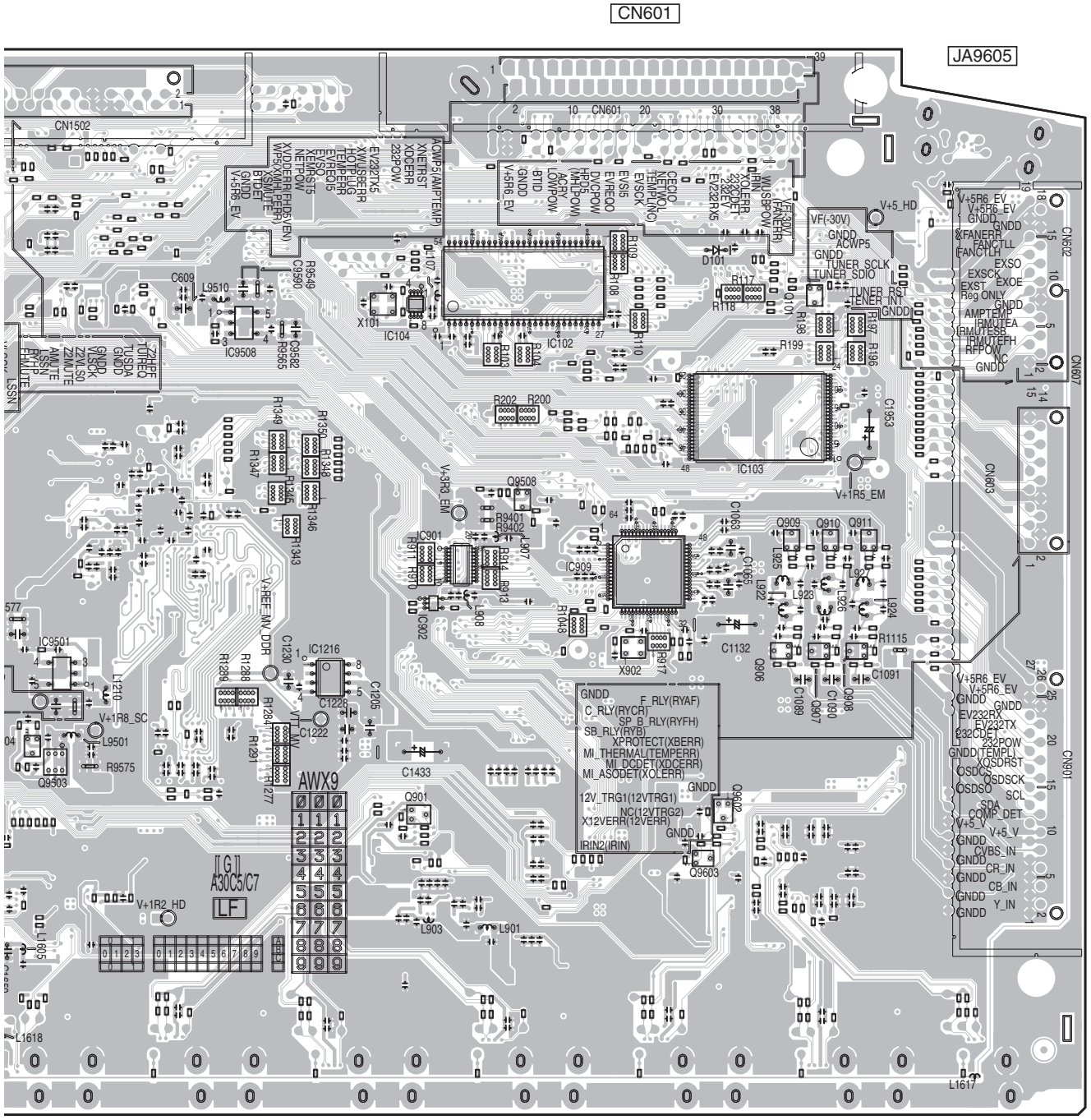

G CN2113
CN1504
G CN2110
CN1801
U CX101
CN9501
CONTACT SIDE
CONTACT SIDE
MAC ID LABEL
MAC ID LABEL
CN1502
CN9202
CN1504
CN1503
CN1801
CN9001
CN9203
CN9201
CN9501
JH9503
JH9502
KN9801
BURRING
JA9202
JA9201
JA1601
JA1803
JA1804
JA1805
JA1806
JA1802
JA1801
IC603
IC611
IC610
IC1803
IC1509
IC1804
IC9518
IC9204
IC9203
IC9521
IC9002
IC1602
IC9206
IC9502
IC9522
IC1808
IC9201
IC9202
IC1807
IC9520
IC1801
IC1802
Q1501
Q1506
IC1502
Q1502-Q1505
Q9516
IC9519
Q601
Q1601
Q9201

SIDE B

D D-MAIN ASSY



SIDE B



IC9508 IC104 Q101

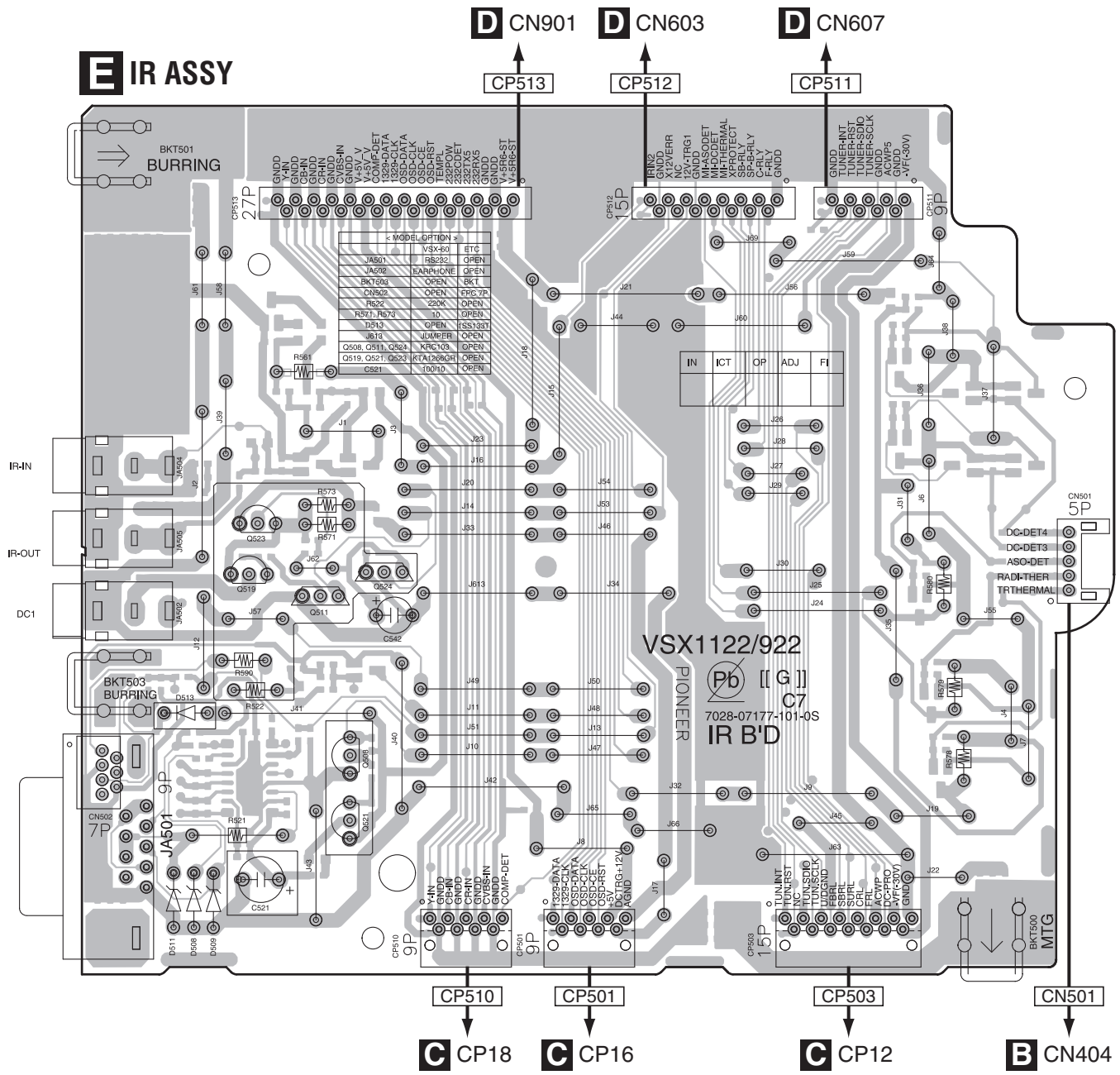
IC901 Q9508

IC9501 IC1216 IC902 IC909 IC103 Q906-Q911

Q9504 Q901 Q9602

Q9503 Q9603

11.5 IR ASSY

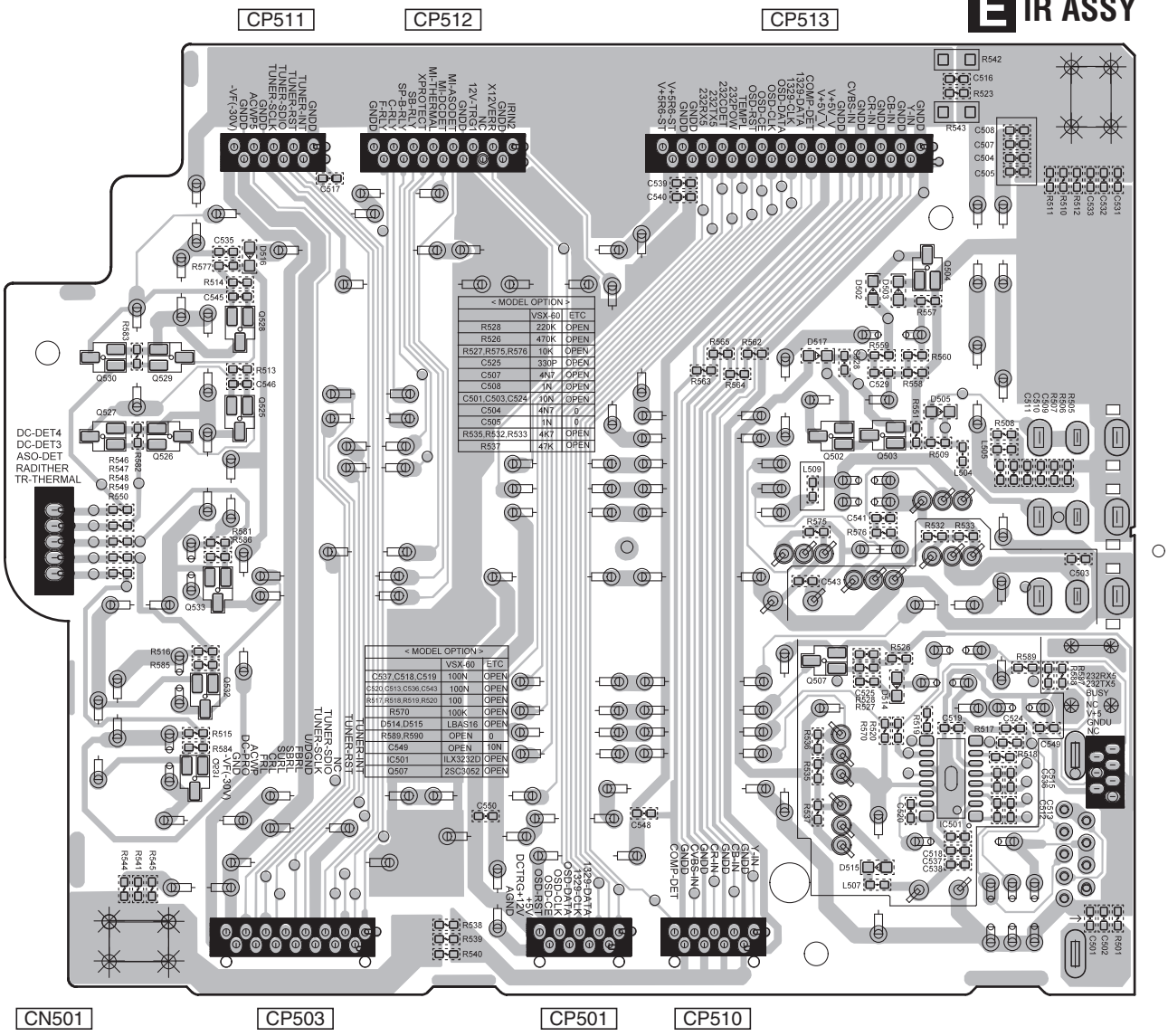


Q523
Q519 Q511 Q524
Q508
Q521

SIDE B

SIDE B

E IR ASSY



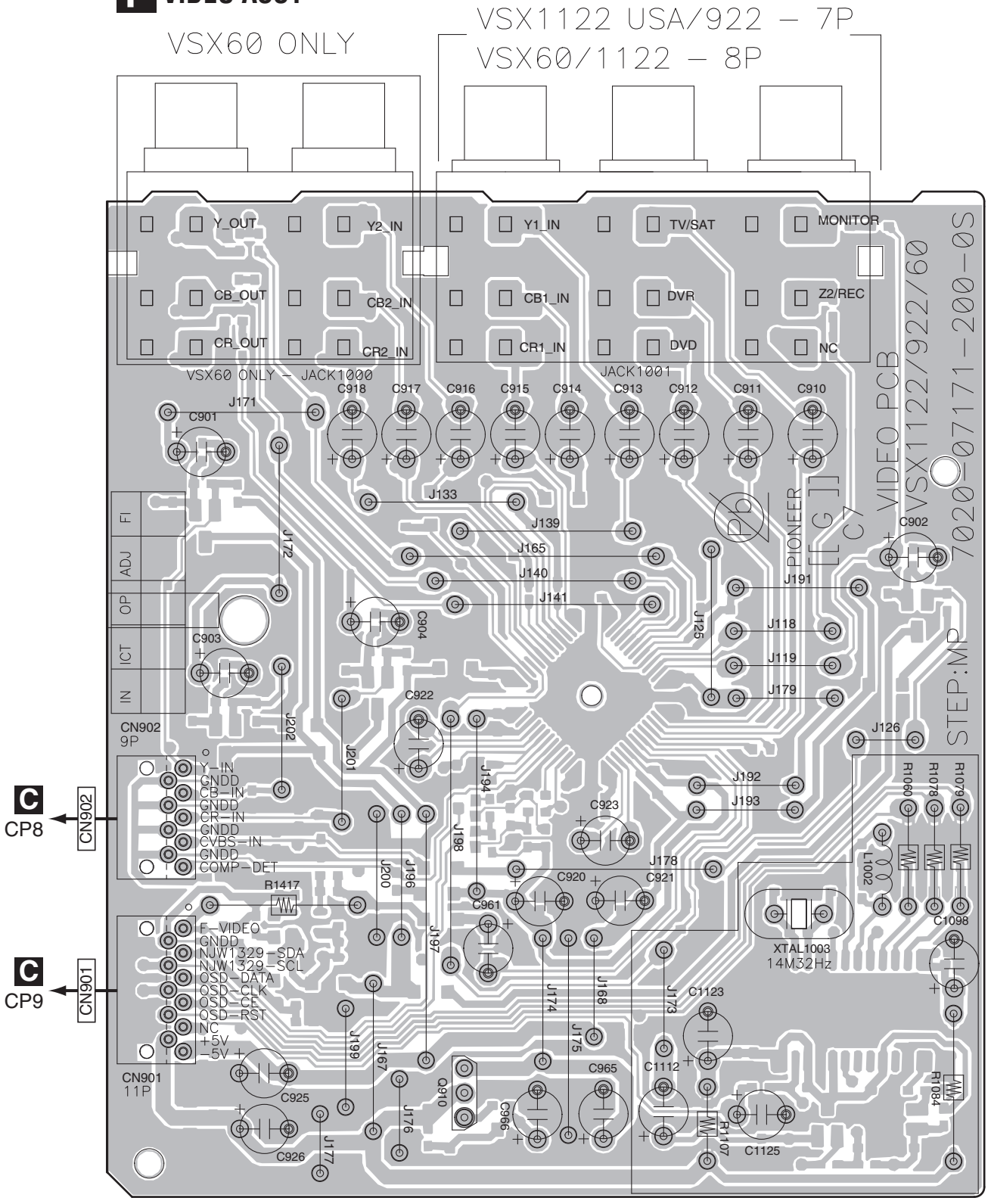
Q530 Q529 Q528 Q504
Q527 Q526 Q525 Q502 Q503
Q533
Q532 Q507
Q531 IC501

11.6 VIDEO ASSY

SIDE A

SIDE A

F VIDEO ASSY



Q910

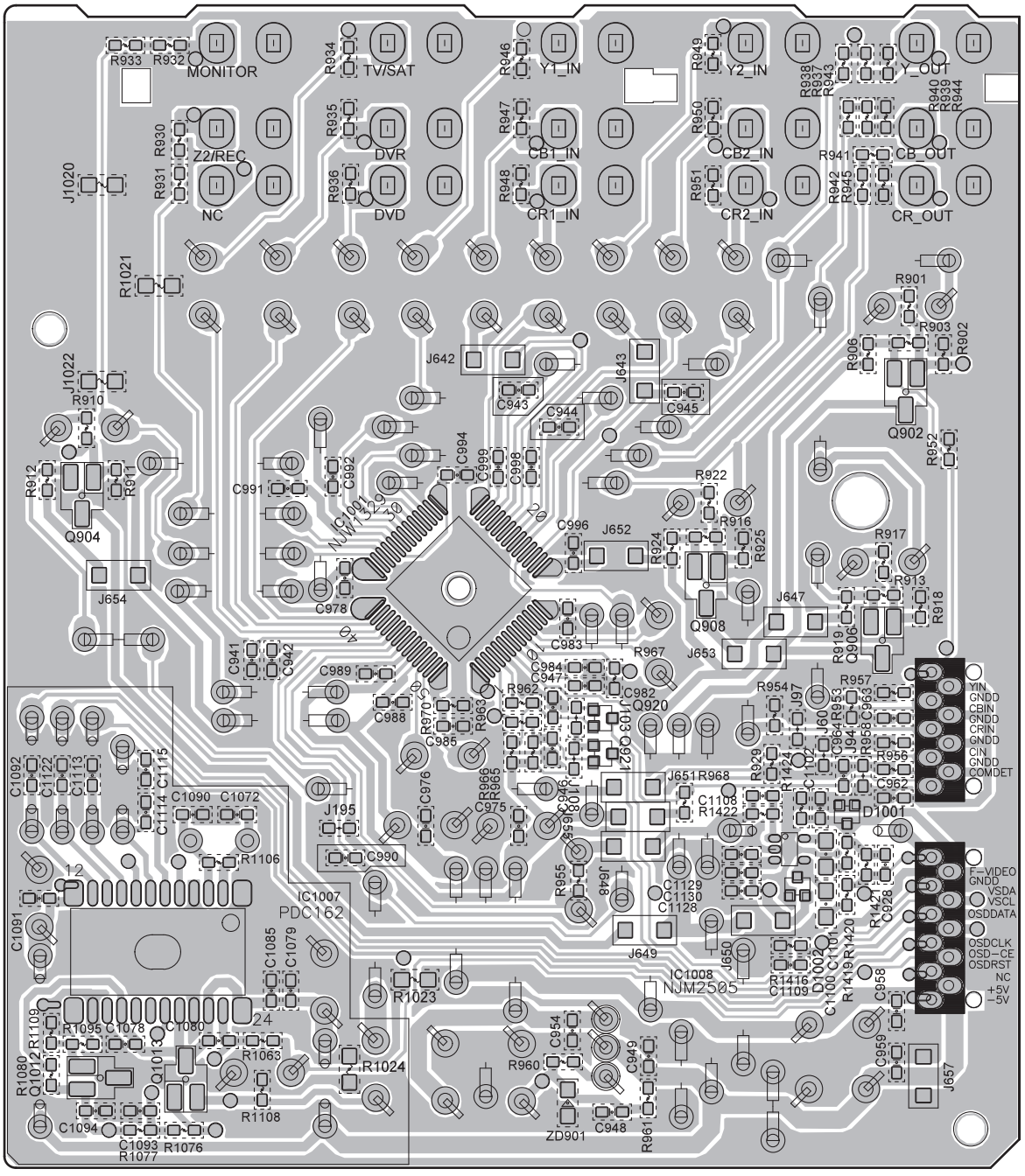
F

SIDE B

SIDE B

A B C D E F

F VIDEO ASSY



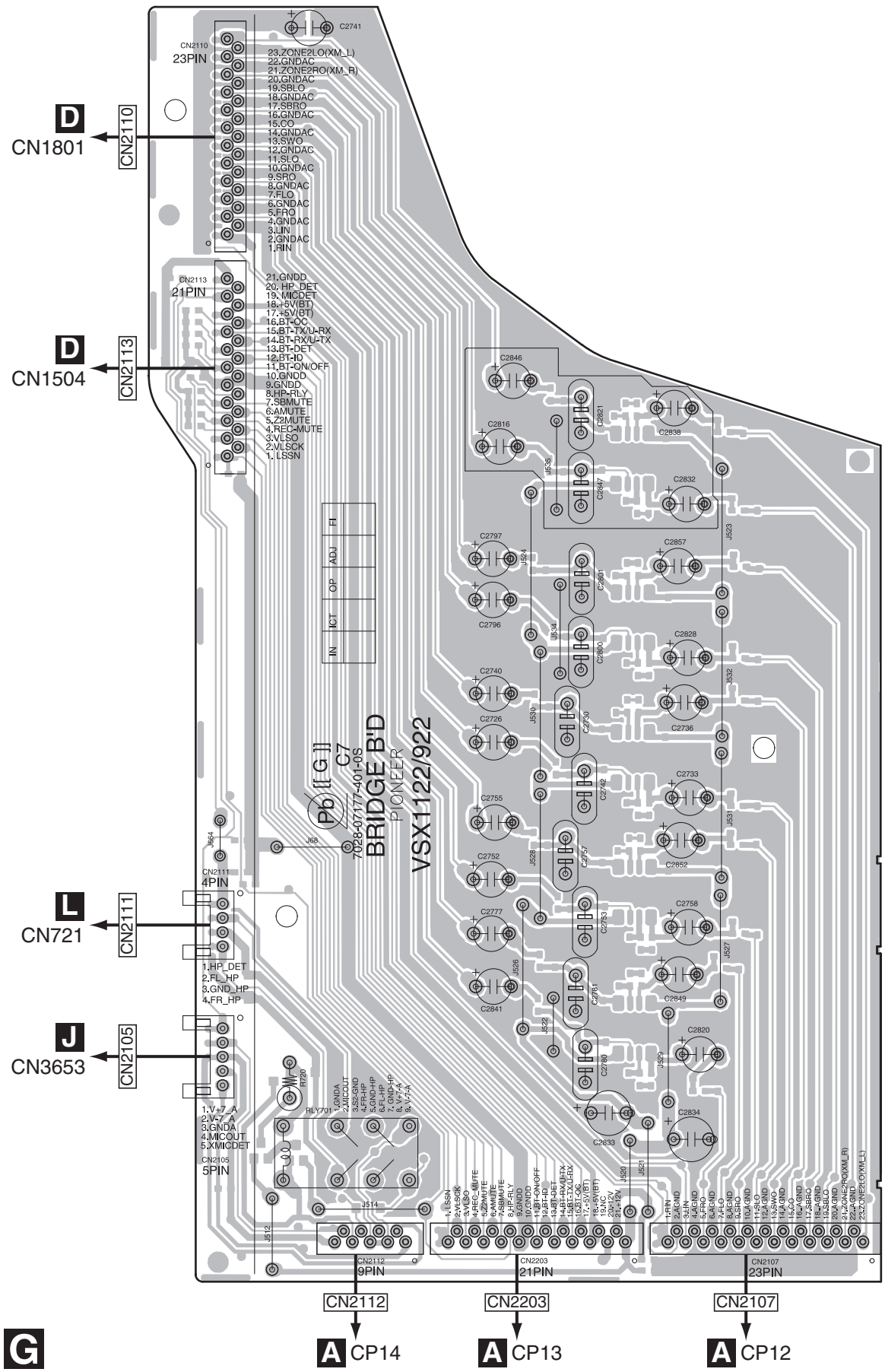
Q904 IC1007 Q1012 Q1013 IC1001 Q908 Q920 Q921 IC1008 Q902 Q906

11.7 BRG ASSY

SIDE A

SIDE A

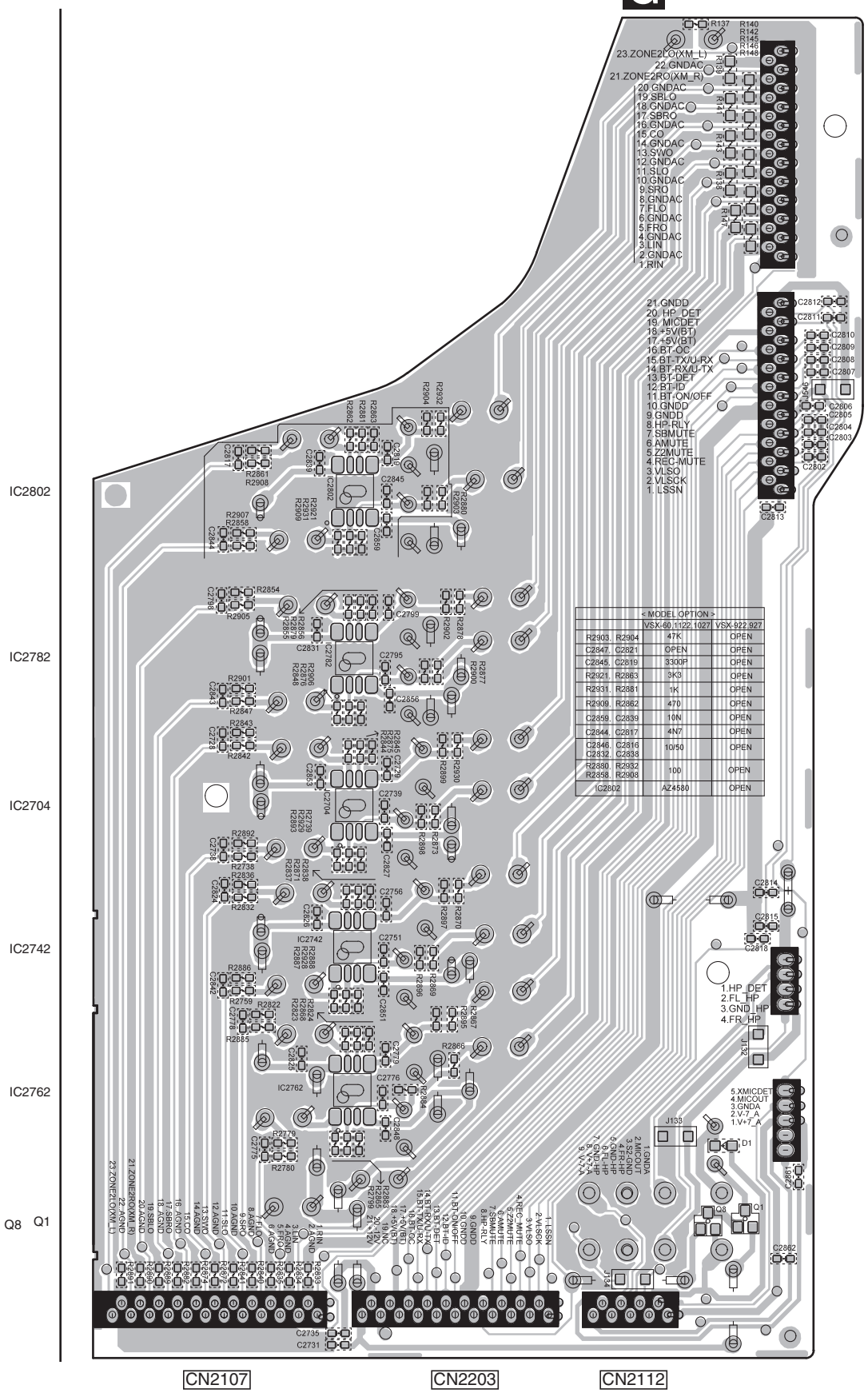
G BRG ASSY



SIDE B

G BRG ASSY

SIDE B



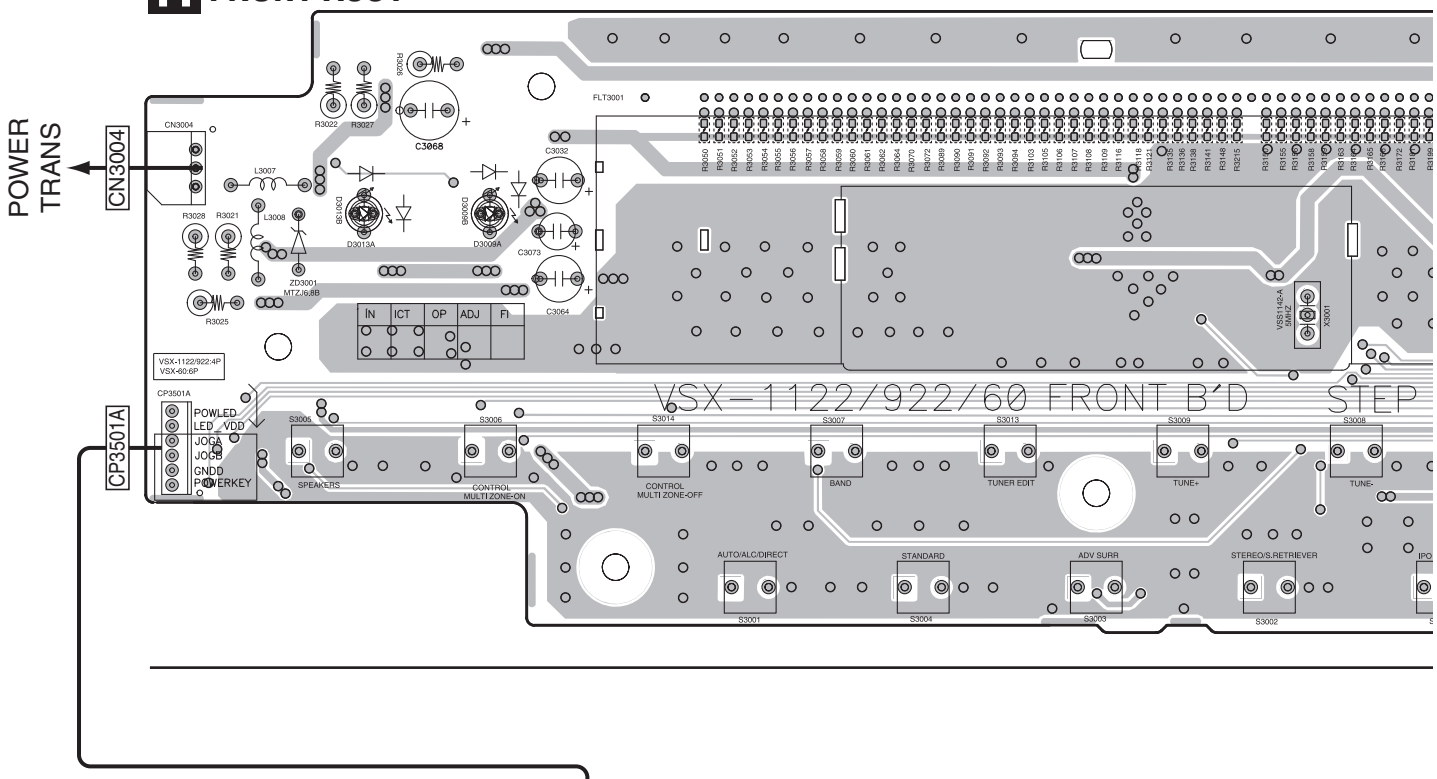
< MODEL OPTION >

	VSX-60,1122,1027	VSX-922,927
R2903, R2904	47K	OPEN
C2847, C2821	OPEN	OPEN
C2845, C2819	3300P	OPEN
R2921, R2863	3K3	OPEN
R2931, R2881	1K	OPEN
R2909, R2862	470	OPEN
C2859, C2839	10N	OPEN
C2844, C2817	4N7	OPEN
C2846, C2816, C2832, C2838	10/50	OPEN
R2880, R2932, R2858, R2903	10Ω	OPEN
IC2802	AZ4580	OPEN

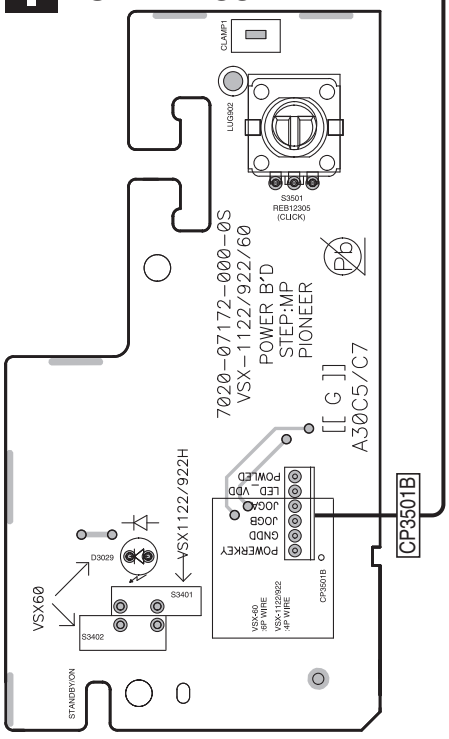
11.8 FRONT, POWER, MIC, FVIDEO and HP ASSYS

SIDE A

H FRONT ASSY



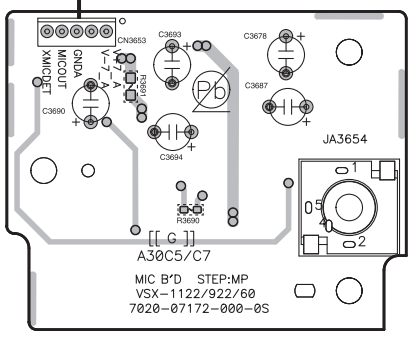
I POWER ASSY



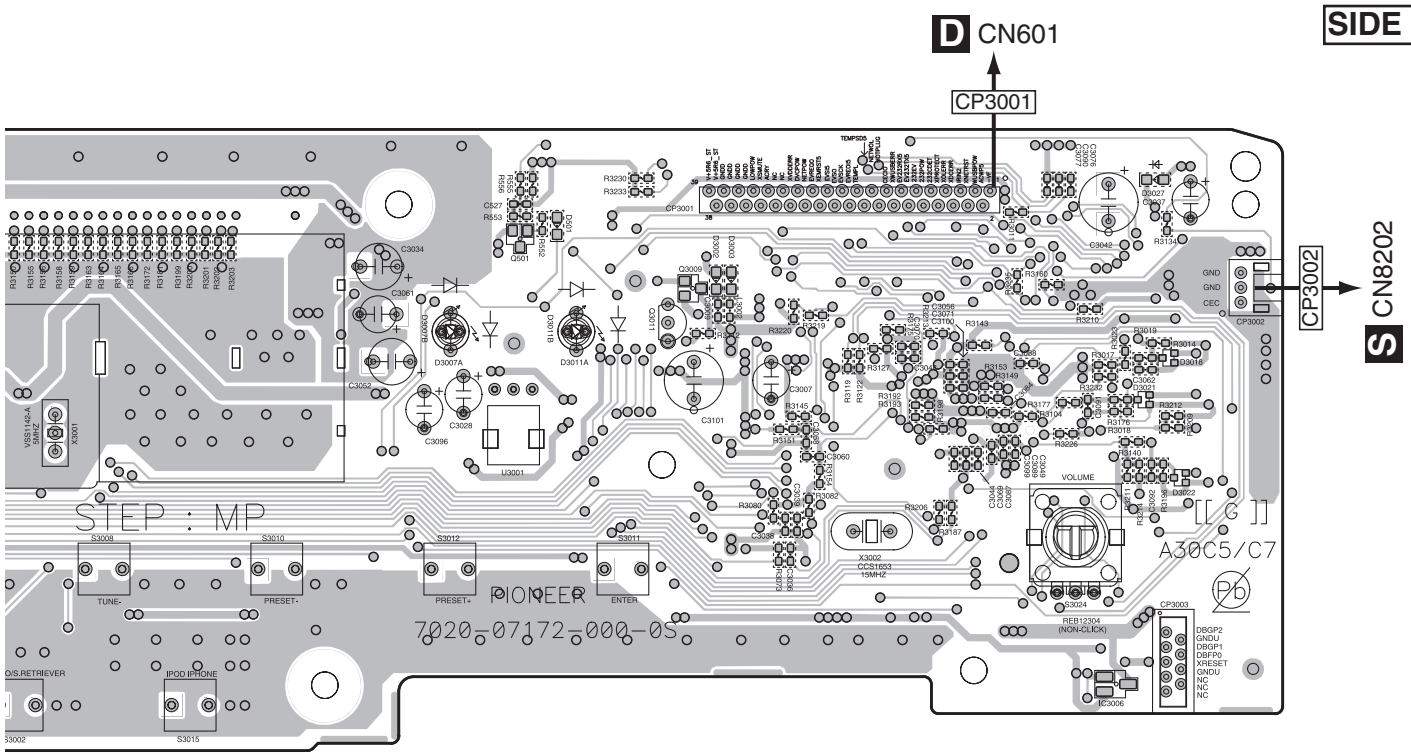
G CN2105

CN3653

J MIC ASSY

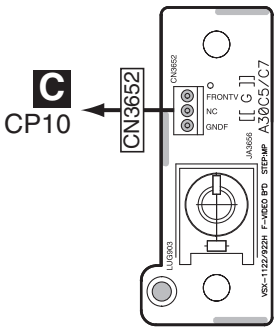


SIDE A

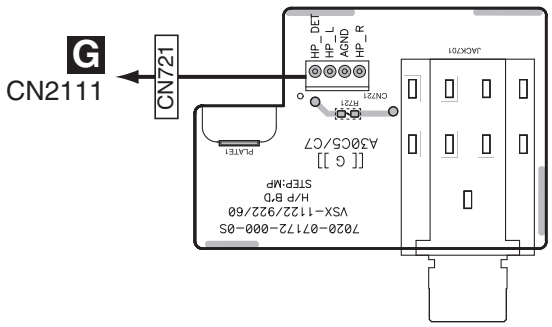


Q501 Q3009 Q3011 IC3006

K FVIDEO ASSY



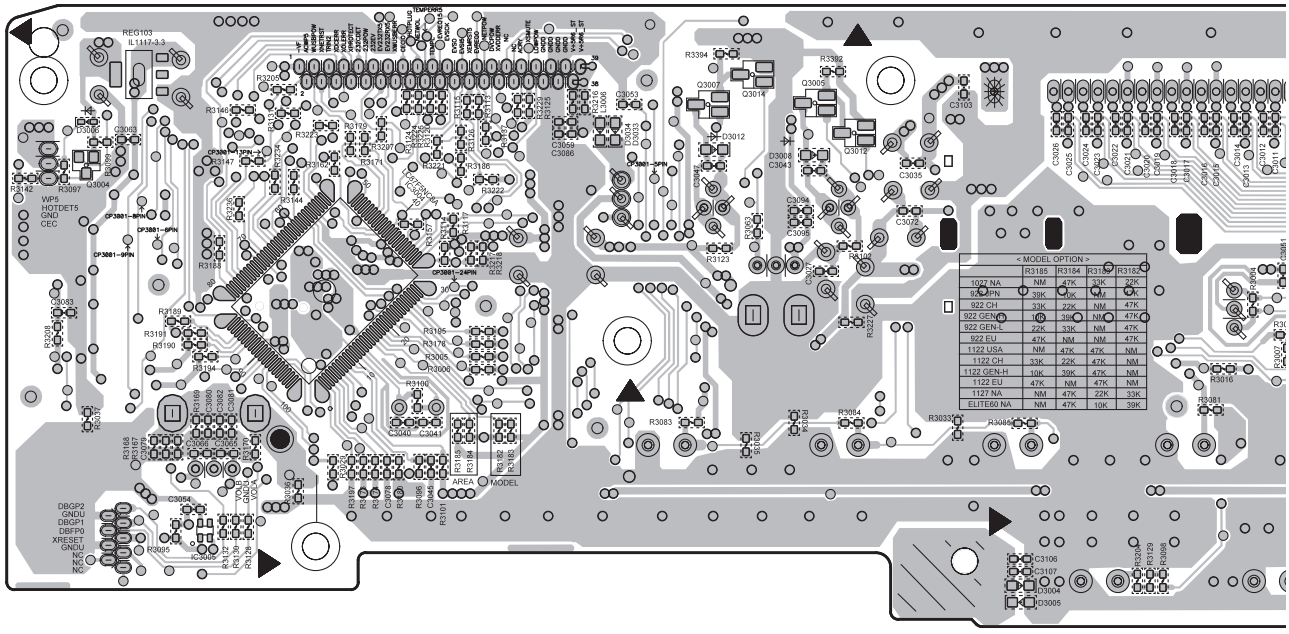
L HP ASSY



SIDE B

CP3001

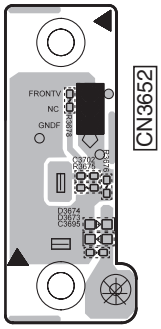
CP3002



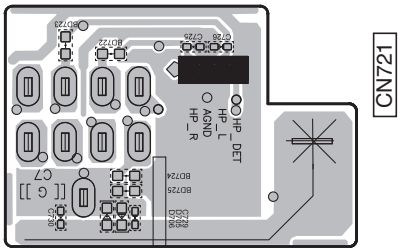
Q3004 REG103 Q3007 Q3014 Q3005 Q3012

IC3005 IC3004

K FVIDEO ASSY

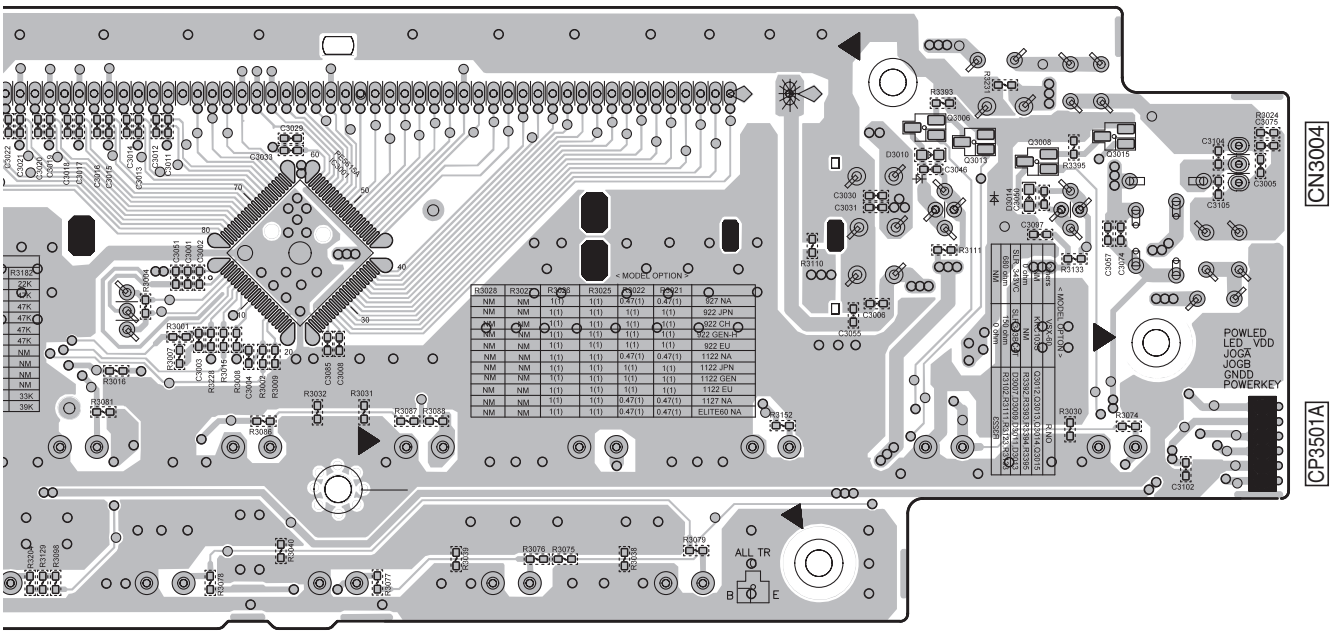


L HP ASSY



SIDE B

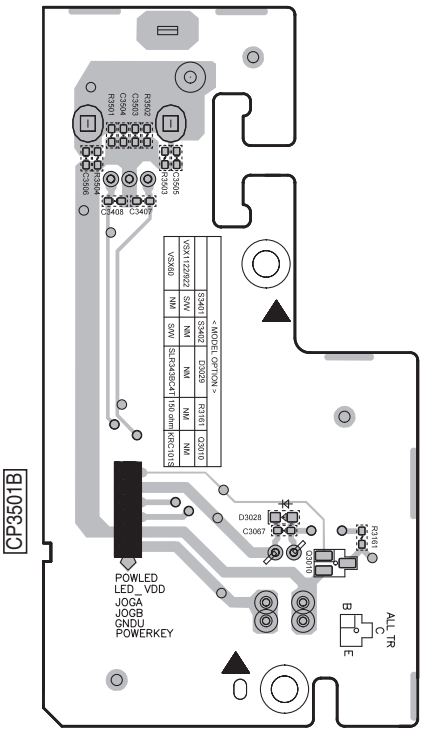
H FRONT ASSY



Q3006 Q3013 Q3008 Q3015

IC3001

I POWER ASSY

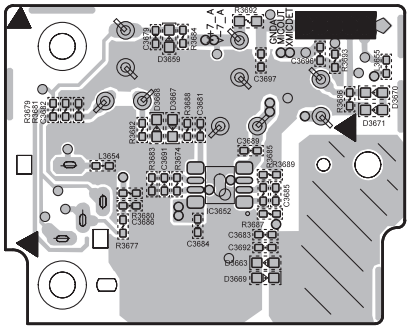


Q3010

J MIC ASSY

CN3653

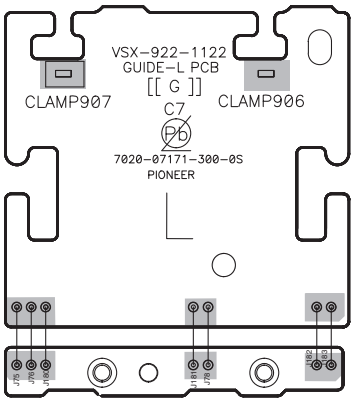
IC3652



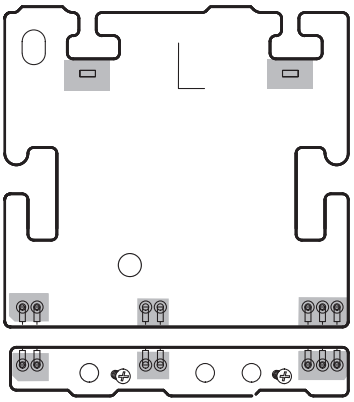
11.9 G-L, G-R, WG-A and WG-B ASSYS

SIDE A **SIDE B**

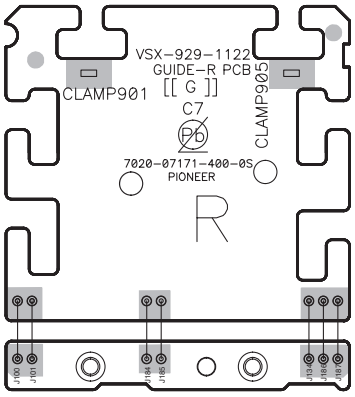
M G-L ASSY



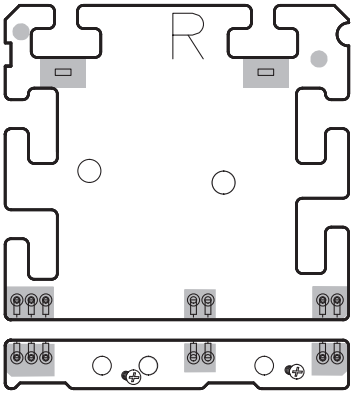
M G-L ASSY



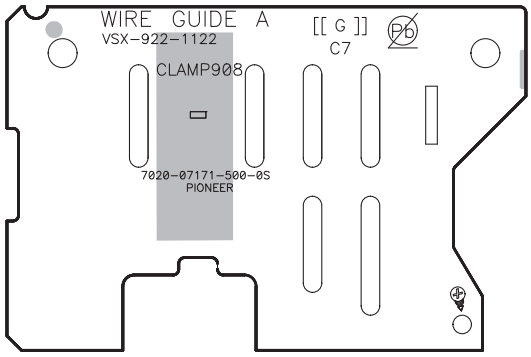
N G-R ASSY



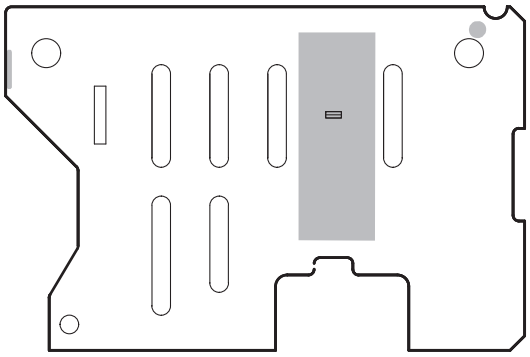
N G-R ASSY



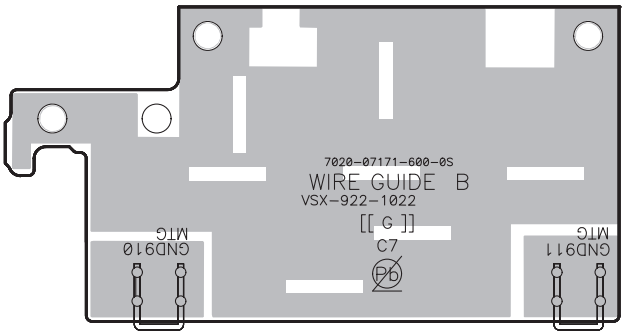
O WG-A ASSY



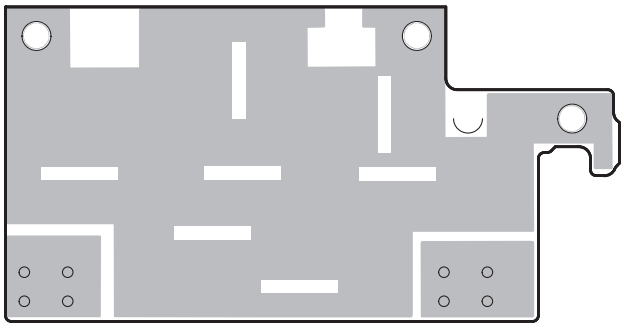
O WG-A ASSY



P WG-B ASSY



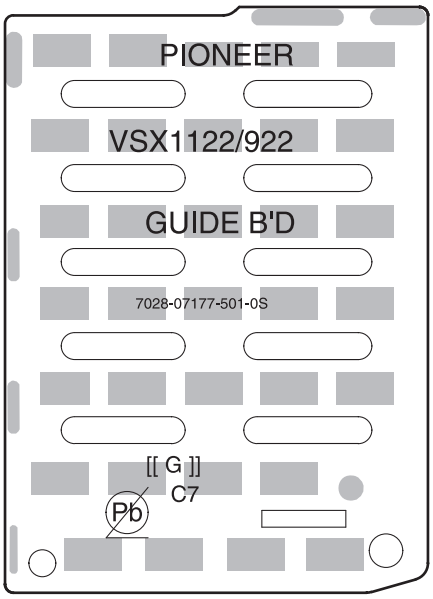
P WG-B ASSY



M N O P

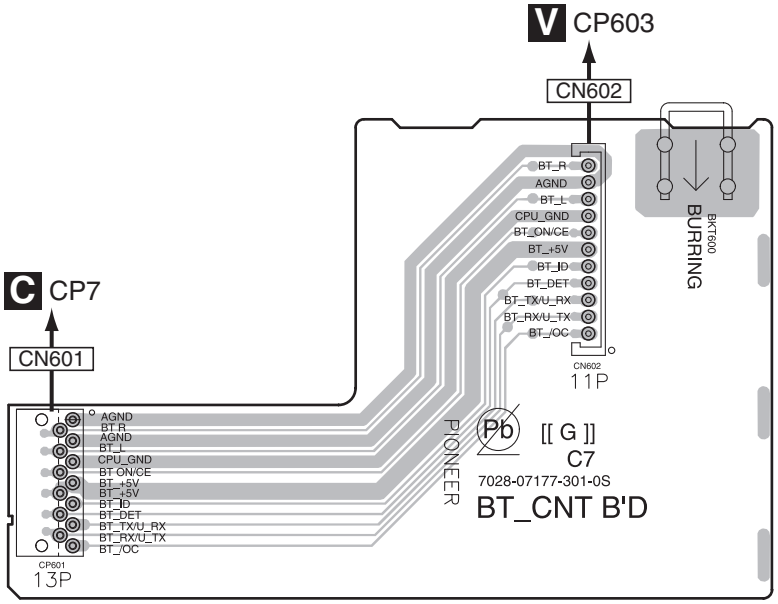
11.10 CCG and BTCNT ASSYS

SIDE A



Q CCG ASSY

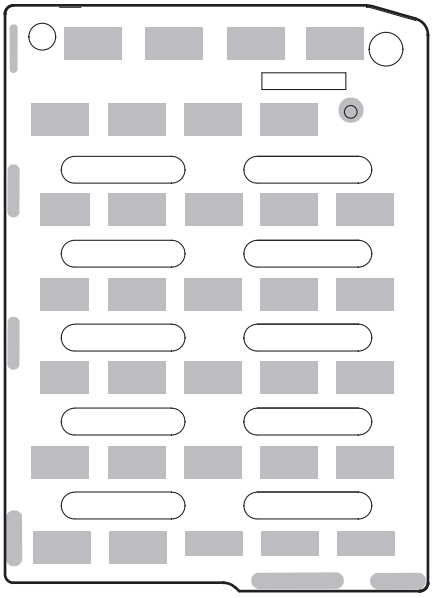
SIDE A



R BTCNT ASSY

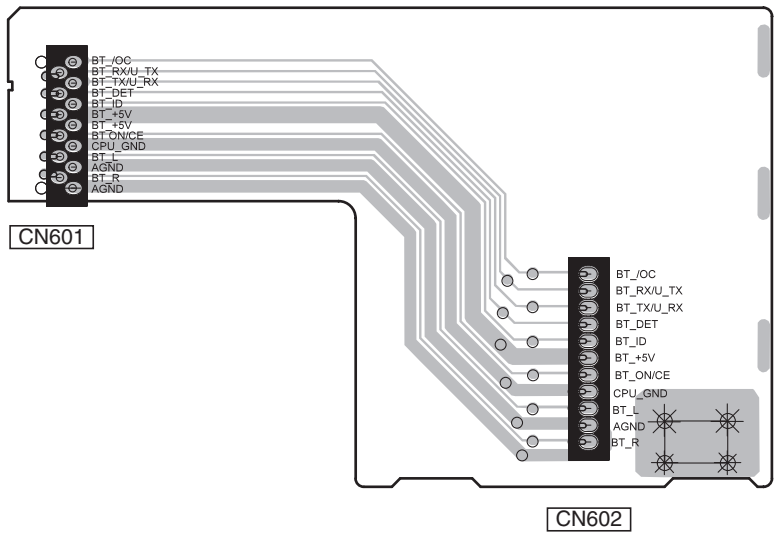
SIDE B

Q CCG ASSY



SIDE B

R BTCNT ASSY



Q R

11.11 FHDMI and F-USB ASSYS

SIDE A

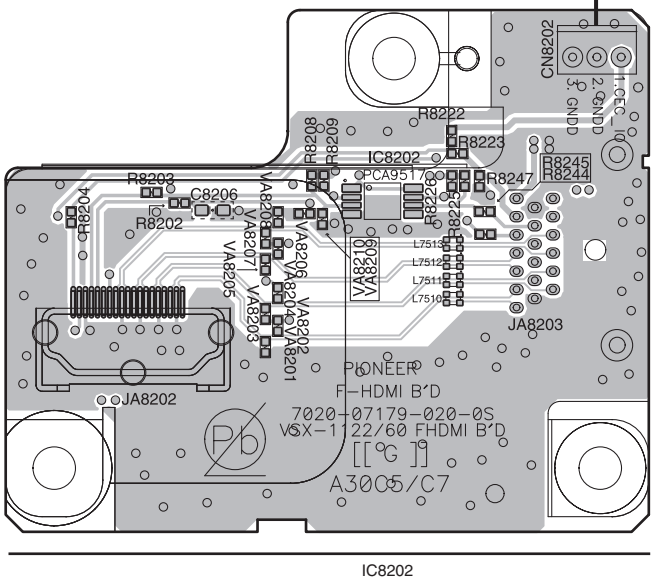
SIDE A

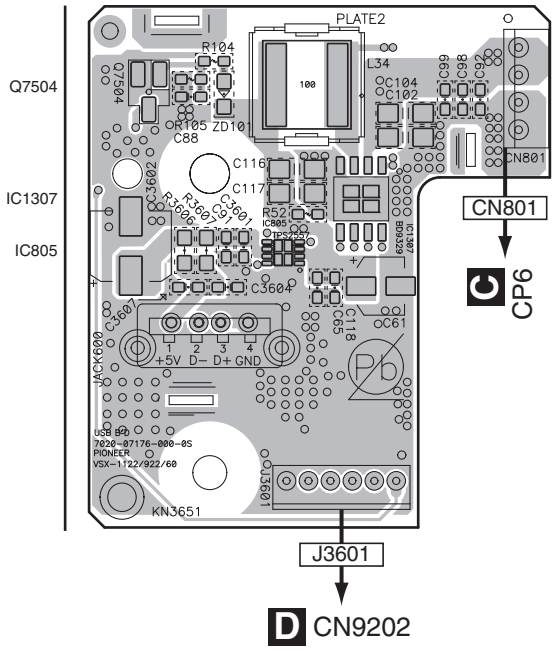
H CP3002

S FHDMI ASSY

CN8202

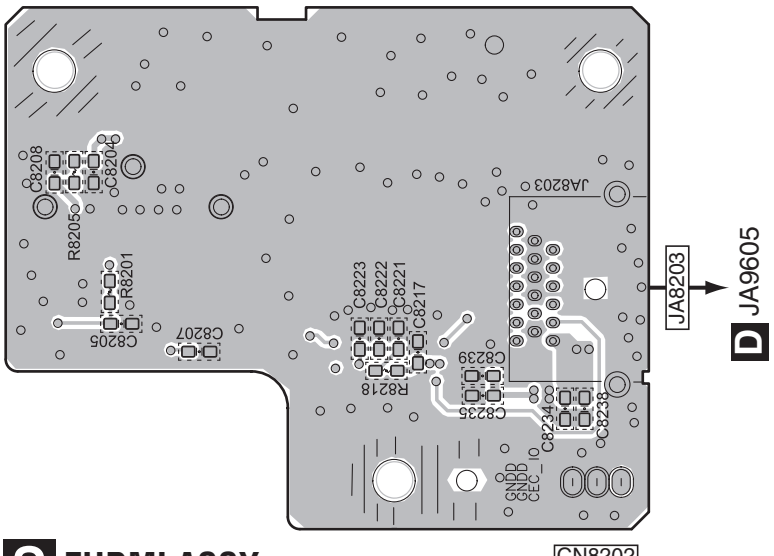
T F-USB ASSY

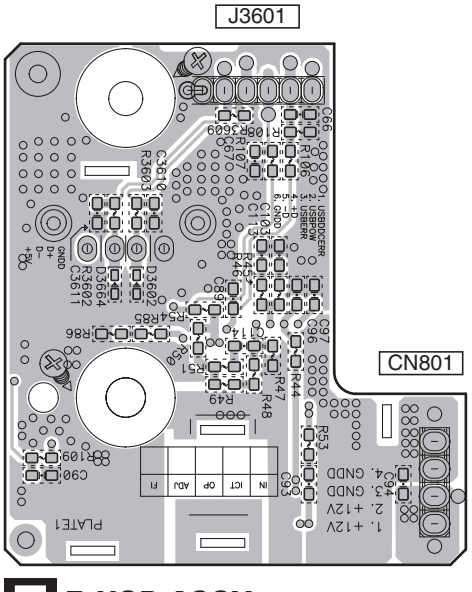




SIDE B

SIDE B





S FHDMI ASSY

T F-USB ASSY

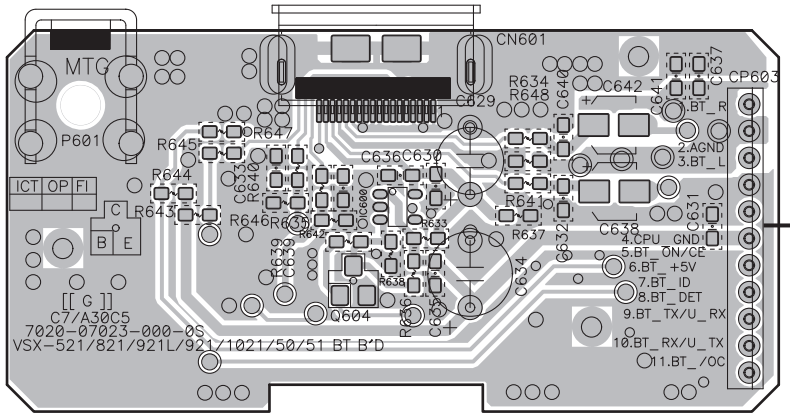
S T

11.12 BT ASSY

SIDE A

SIDE A

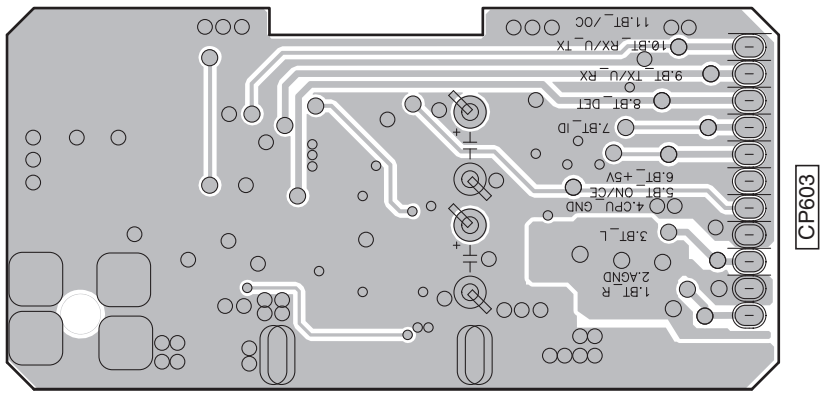
V BT ASSY



SIDE B

SIDE B

V BT ASSY

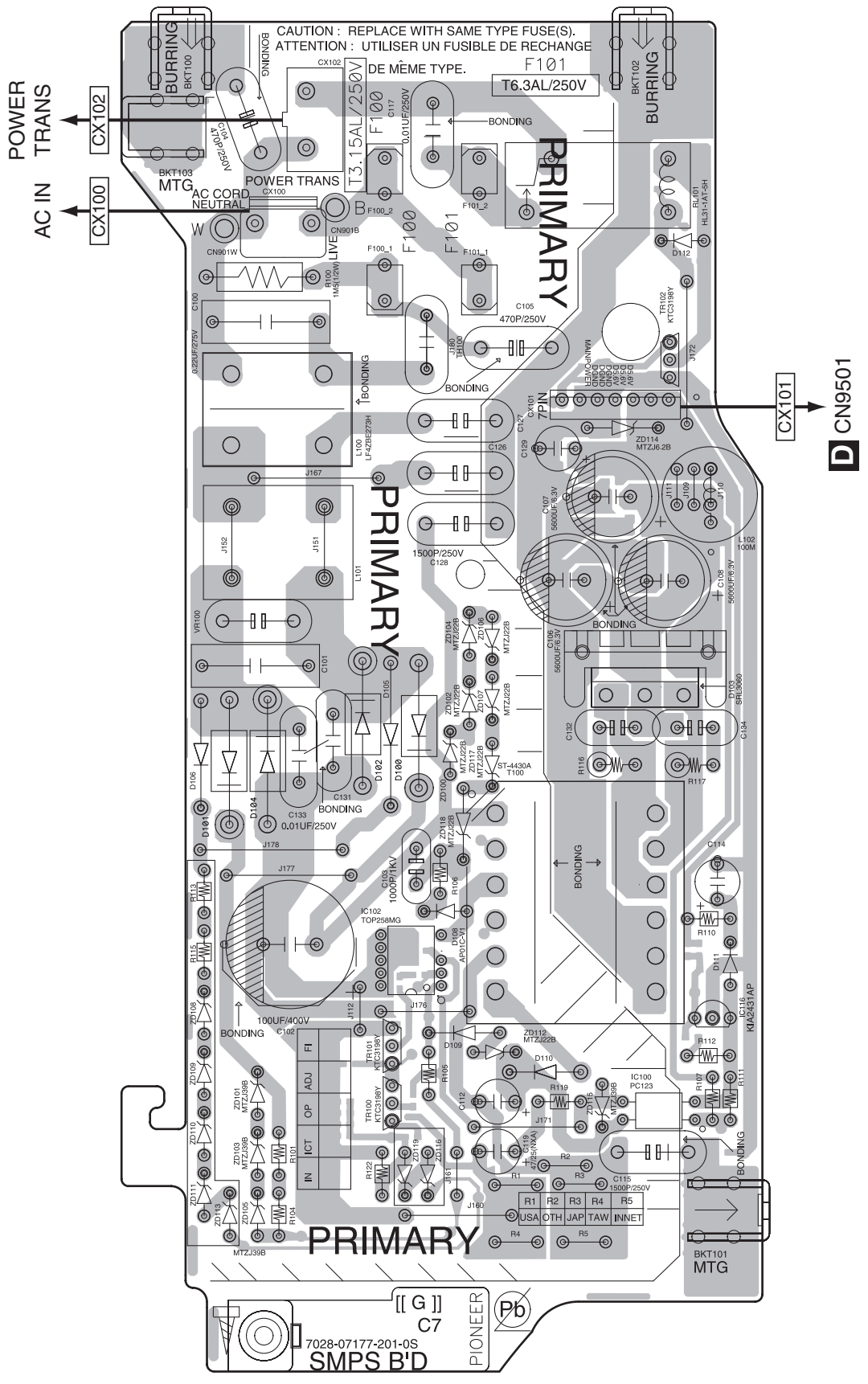


11.13 SMPS ASSY

SIDE A

SIDE A

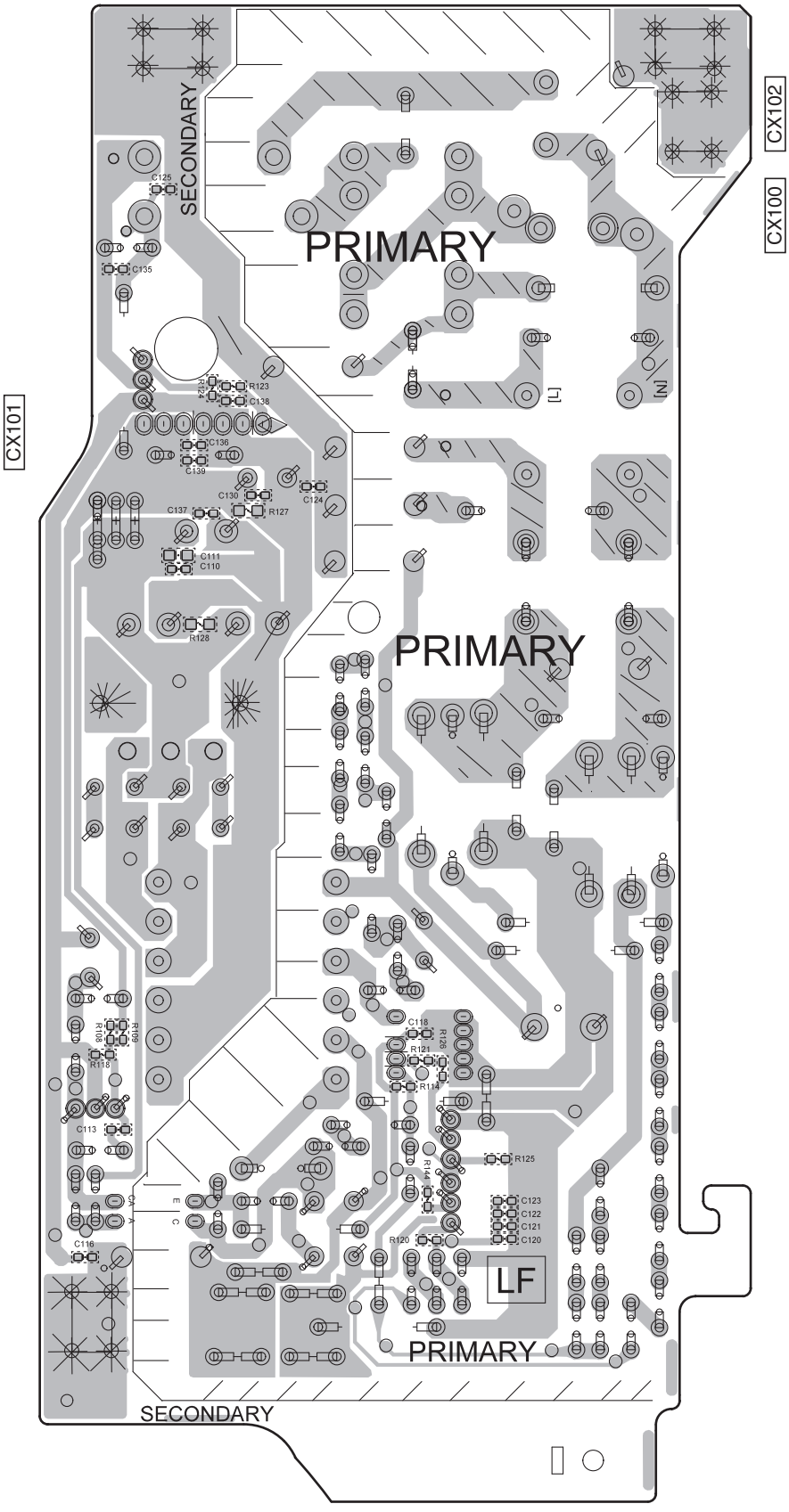
U SMPS ASSY



SIDE B

SIDE B

U SMPS ASSY



12. PCB PARTS LIST

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

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

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

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

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

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

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

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

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

IC 301 (A, 91, 111) IC NJM2068V

● *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*	*GND*	→ *KN*
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****		
CX	→ *CN9****	*REG*	→ *IC9****	*DZ*	→ *D9****		
FPC	→ *CN9****						

LIST OF ASSEMBLIES

Mark	Symbol and Description	VSX-1127-K/CUXE	VSX-1122-K/CUXESM	VSX-60/UXECB	VSX-1027-K/CUXE
NSP	1..PCB TTL ASSY MAIN	7025HK1110020-IL	7025HK1110010-IL	7025HK1110030-IL	7025HK1109010-IL
	2..MAIN ASSY	7028071711010-IL	7028071711010-IL	7028071711040-IL	7028071711010-IL
	2..VIDEO ASSY	7028071712020-IL	7028071712070-IL	7028071712040-IL	7028071712070-IL
	2..G-L ASSY	7028071713040-IL	7028071713040-IL	7028071713040-IL	7028071713040-IL
	2..G-R ASSY	7028071714040-IL	7028071714040-IL	7028071714040-IL	7028071714040-IL
	2..WG-A ASSY	7028071715040-IL	7028071715040-IL	7028071715040-IL	7028071715040-IL
	2..WG-B ASSY	7028071716040-IL	7028071716040-IL	7028071716040-IL	7028071716040-IL
NSP	1..PCB TTL ASSY DMAIN	7025HK1110021-IL	7025HK1110011-IL	7025HK1110031-IL	7025HK1109011-IL
	2..D-MAIN ASSY	7028071752020-IL	7028071752040-IL	7028071752040-IL	7028071752070-IL
NSP	1..PCB TTL ASSY FRONT	7025HK1110022-IL	7025HK1110012-IL	7025HK1110032-IL	7025HK1109012-IL
	2..FRONT ASSY	7028071721050-IL	7028071721010-IL	7028071721040-IL	7028071721060-IL
	2..POWER ASSY	7028071722010-IL	7028071722010-IL	7028071722040-IL	7028071722010-IL
	2..MIC ASSY	7028071723040-IL	7028071723040-IL	7028071723040-IL	7028071723040-IL
	2..FVIDEO ASSY	7028071724040-IL	7028071724040-IL	7028071724040-IL	7028071724040-IL
	2..HP ASSY	7028071725040-IL	7028071725040-IL	7028071725040-IL	7028071725040-IL
NSP	1..PCB TTL ASSY AUDIO	7025HK1110023-IL	7025HK1110013-IL	7025HK1110033-IL	7025HK1109013-IL
	2..AUDIO ASSY	7028071741050-IL	7028071741010-IL	7028071741040-IL	7028071741010-IL
NSP	1..PCB TTL ASSY IR	7025HK1110024-IL	7025HK1110014-IL	7025HK1110034-IL	7025HK1109014-IL
	2..IR ASSY	7028071771010-IL	7028071771010-IL	7028071771040-IL	7028071771010-IL
	2..SMPS ASSY	7028071772010-IL	7028071772010-IL	7028071772040-IL	7028071772010-IL
	2..BRG ASSY	7028071773040-IL	7028071773040-IL	7028071773040-IL	7028071773070-IL
	2..BTCNT ASSY	7028071774040-IL	7028071774040-IL	7028071774040-IL	7028071774040-IL
	2..CCG ASSY	7028071775040-IL	7028071775040-IL	7028071775040-IL	7028071775040-IL
NSP	1..PCB TTL ASSY AMP7	7025HK1110025-IL	7025HK1110015-IL	7025HK1110035-IL	7025HK1109015-IL
	2..AMP7 ASSY	7028071731040-IL	7028071731040-IL	7028071731040-IL	7028071731040-IL
NSP	1..PCB TTL ASSY FHDMI	7025HK1110026-IL	7025HK1110016-IL	7025HK1110036-IL	Not used
	2..FHDMI ASSY	7028071791040-IL	7028071791040-IL	7028071791040-IL	Not used
NSP	1..PCB TTL ASSY F-USB	7025HK1110027-IL	7025HK1110017-IL	7025HK1110037-IL	7025HK1109017-IL
	2..F-USB ASSY	7028071761020-IL	7028071761020-IL	7028071761020-IL	7028071761020-IL
NSP	1..PCB TTL ASSY BT	7025HK1110028-IL	7025HK1110018-IL	7025HK1110038-IL	7025HK1109018-IL
	2..BT ASSY	7028070231010-IL	7028070231010-IL	7028070231010-IL	7028070231010-IL

CONTRAST OF PCB ASSEMBLIES

A AUDIO ASSY

7028071741050-IL, 7028071741040-IL and 7028071741010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028071741050-IL	7028071741040-IL	7028071741010-IL
	IC2503 Electric VOL IC (2 ch)	BD3812F	BD3812F	Not used
	JA2102 Ter, RCA 2pin	G601206A0005Y-IL	G602421E0002Y-IL	G601206A0005Y-IL

C MAIN ASSY

7028071711010-IL and 7028071711040-IL are constructed the same except for the following:

Mark	Symbol and Description	7028071711010-IL	7028071711040-IL
⚠	IC5 Liner Regulator IC	Not used	J126781200040-IL

D D-MAIN ASSY

7028071752020-IL, 7028071752040-IL and 7028071752070-IL are constructed the same except for the following:

Mark	Symbol and Description	7028071752020-IL	7028071752040-IL	7028071752070-IL
	IC1802 D/A Converter IC	AK4388ET	AK4388ET	Not used
	IC1803 Zero Delay Buffer	IDT6V60008DCG	Not used	Not used
	IC9207 IC	TC74VHC08FK	TC74VHC08FK	Not used
	JA1801 Pin Jack (2P)	G601206A0700Y-IL	G601206A0700Y-IL	Not used
	JA1802 Ter, RCA 1pin	Not used	Not used	G60011703000Y-IL
	JA1804 Module	E100216500010-IL	E100216500010-IL	Not used

E IR ASSY

7028071771010-IL and 7028071771040-IL are constructed the same except for the following:

Mark	Symbol and Description	7028071771010-IL	7028071771040-IL
	IC501 IC, Logic-interface	Not used	J046323200020-IL
	Q508, Q511, Q524 Semi, BRT/PNP RC	Not used	J502010300210-IL
	Q519, Q521, Q523 Semi, TR/GE PNP 2SA	Not used	J5001266G0050-IL
	JA501 CN. Wafer Interface	Not used	L103090090040-IL
	JA502 Jack, D3.5	Not used	G401PJ3080100-IL
	503 Bracket	4010210196100-IL	Not used

F VIDEO ASSY

7028071712020-IL, 7028071712070-IL and 7028071712040-IL are constructed the same except for the following:

Mark	Symbol and Description	7028071712020-IL	7028071712070-IL	7028071712040-IL
	IC1007 Character Generator	PDC162A	Not used	Not used
	X1003 Crystal	E80014R318080-IL	Not used	Not used
	JA1000 Ter, RCA 6pin	Not used	Not used	G603610A0032Y-IL
	JA1001 Ter, RCA 9pin	G607902AA133Y-IL	G607902AA133Y-IL	G607902AA151Y-IL
	JA1001 Ter, RCA 9pin	G607902AA151Y-IL	Not used	Not used

G BRG ASSY

7028071773040-IL and 7028071773070-IL are constructed the same except for the following:

Mark	Symbol and Description	7028071773040-IL	7028071773070-IL
	IC2802 IC, Linear OP	J121458001010-IL	Not used

H FRONT ASSY

7028071721050-IL, 7028071721010-IL, 7028071721040-IL and 7028071721060-IL are different in part number, they consist of the same components.

I POWER ASSY

7028071722010-IL and 7028071722040-IL are constructed the same except for the following:

Mark	Symbol and Description	7028071722010-IL	7028071722040-IL
	D3029 LED, Round	Not used	K500036001120-IL

U SMPS ASSY

7028071772010-IL and 7028071772040-IL are constructed the same except for the following:

Mark	Symbol and Description	7028071772010-IL	7028071772040-IL
	CN9100 Connector	L108396030010-IL	Not used

PARTS LIST (VSX-1127-K)

A AUDIO ASSY

Mark	No.	Description	Part No.
		SEMICONDUCTORS	
	IC	2501	BD3473KS2
	IC	2502	J040406600010-IL
	IC	2503	BD3812F
	IC	2702,2704,2706	J121458001010-IL
	Q	2401	J5023209Y0010-IL
	Q	2402	J5001281Y0010-IL
		MISCELLANEOUS	
	JA	2101 TER,RCA 6PIN	G603610A0001Y-IL
	JA	2102 TER,RCA 2PIN	G601206A0005Y-IL
	JA	2103 TER,RCA 4PIN	G602421E0046Y-IL
		RESISTORS	
	R	374,377	C060033065050-IL

B AMP7 ASSY

Mark	No.	Description	Part No.
		SEMICONDUCTORS	
	Q	401,413,425,437	J5001024Y0050-IL
	Q	407,408,417,419	J5000992F0050-IL
	Q	412,424,436,448	J5023206Y0050-IL
	Q	420,431,432,443	J5000992F0050-IL
	Q	444,455,456,467	J5000992F0050-IL
	Q	449,461,473	J5001024Y0050-IL
	Q	460,472,484	J5023206Y0050-IL
	Q	468,479,480	J5000992F0050-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
		MISCELLANEOUS	
	VR	401-407 VR,SEMI CARBON MOLD	C541102315000-IL
		400,401 BRACKET	4010210196100-IL

Mark	No.	Description	Part No.
		RESISTORS	
⚠	R	406,450,494,537	F320184710050-IL
⚠	R	424,425,430,431	N113136647820-IL
	R	443,487,530,573	C060047065060-IL
⚠	R	467,468,474,475	N113136647820-IL
	R	493	C060033065050-IL
⚠	R	511,512,517,518	N113136647820-IL
⚠	R	554,555,561,562	N113136647820-IL
⚠	R	580,623,666	F320184710050-IL
⚠	R	597,598,603,604	N113136647820-IL
	R	616,659,702	C060047065060-IL
⚠	R	640,641,646,647	N113136647820-IL
⚠	R	683,684,689,690	N113136647820-IL
		CAPACITORS	
	C	419	D04010108C240-IL

C MAIN ASSY

Mark	No.	Description	Part No.
		SEMICONDUCTORS	
⚠	IC	1	J126781200040-IL
⚠	IC	2	J126791200060-IL
⚠	IC	3	J126780500110-IL
⚠	IC	4	J126790500070-IL
	Q	14,15	J5023198Y0000-IL
	Q	16	J5000992F0050-IL
	Q	17	J5000916Y0050-IL
⚠	D	7	K047100600220-IL
⚠	D	10-13,23	K000400700220-IL
⚠	D	4912	K047604000020-IL
	D	9002	K06005R144520-IL
	D	9024,9025	K06012R044520-IL
		MISCELLANEOUS	
	JA	1,2 TER,BOARD SCREW 8P	G614108V1010M-IL
	JA	3 TER,BOARD SCREW 2P	G611201A0200Y-IL
	JA	50 TUNER,FM/AM	E903004100780-IL
	RY	2-6 RELAY	G680120502050-IL
	CN	9007,9019 CN,WAFER	L109012511320-IL
	CN	9008,9016-9018 CN.WAFER	L109012510920-IL

Mark	No.	Description	Part No.
	CN 9009	CN,WAFER	L109012511120-IL
	CN 9012	CN,WAFER	L109012511520-IL
	2	TERMINAL	3790040886000-IL
⚠	33,34	FUSE,MICRO	G658315250050-IL

RESISTORS

	R	5,7,9,11	C060010065050-IL
	R	6,8,10,12	C060010066050-IL
	R	13,15,17	C060010065050-IL
	R	14,16,18	C060010066050-IL
	R	41,42	C060R22065050-IL
	R	25	C0605R6065050-IL
	R	64	C060022063050-IL
	R	66	C0604R7065050-IL

CAPACITORS

	C	55,58	D040103089000-IL
	C	76	D040682083000-IL
	C	84,85	D040472084020-IL
	C	101	D04010108C240-IL

D D-MAIN ASSY

SEMICONDUCTORS

	IC	101	UPD61110GM-100UEVA
	IC	102,9201	J001982566010-IL
	IC	104,604,1808	TC7WHU04FK
	IC	603	PE7008A
	IC	608	TC74VHCT541AFK
	IC	610,1509,1806	TC74VHC126FK
	IC	611	TC74VHCT126AFK
	IC	612,1502	TC74VHCT08AFKS1
	IC	613,1601,1804,9003	TC74VHC08FK
	IC	614,701,9008,9208	TC7SH08FUS1
	IC	901,910	TC74LCX541FK
	IC	902,911	TC7SZ125FU
	IC	909	ADV7181CBSTZ
⚠	IC	1216	LP2996M
	IC	1403	J040740400270-IL
⚠	IC	1605	AAT4610BIGV-1
	IC	1801	AK4588VQ
	IC	1802	AK4388ET
	IC	1803	IDT6V60008DCG
	IC	1805	TC74VHC157FK
	IC	1807	J040740400270-IL
	IC	1812	TC7SZ126FU
	IC	9001	J001986466010-IL
	IC	9102	BU4094BCFV
⚠	IC	9202	BD2226G
	IC	9206	341S2162
	IC	9207	TC74VHC08FK
⚠	IC	9401,9511,9519	S-1170B50UC-OUJ
⚠	IC	9501	S-1172B10-U5
⚠	IC	9502,9518,9523	S-1172B12-E6
⚠	IC	9508	S-1170B25UC-OTK
⚠	IC	9515	S-1172B15-E6
⚠	Q	9503,9507,9516	J543045010060-IL

MISCELLANEOUS

	JA	1801 PIN JACK (2P)	G601206A0700Y-IL
	JA	1803,1804 MODULE	E100216500010-IL
	KN	9801 BRACKET	4010210196100-IL
⚠	P	601 SW,POLY	G300003500010-IL

Mark	No.	Description	Part No.

CAPACITORS

	C	1509	D040222081000-IL

E IR ASSY

MISCELLANEOUS

	JA	504,505 JACK,D3.5	G401PJ3080100-IL
	CN	9511 CN.WAFER	L109012510920-IL
	CN	9512 CN,WAFER	L109012511520-IL
	CN	9513 CN.WAFER	L109012512720-IL
		501,503 BRACKET	4010210196100-IL

F VIDEO ASSY

SEMICONDUCTORS

	IC	1001	J171132900010-IL
	IC	1007	PDC162A
	IC	1008	NJM2505AF
	Q	910	J5023209Y0010-IL

MISCELLANEOUS

	JA	1001 TER,RCA 9PIN	G607902AA151Y-IL
	JA	1001 TER,RCA 9PIN	G607902AA133Y-IL
	X	1003 CRYSTAL	E80014R318080-IL

G BRG ASSY

SEMICONDUCTORS

	IC	2704,2742,2762,2782	J121458001010-IL
	IC	2802	J121458001010-IL

MISCELLANEOUS

	RY	701 RELAY	G680240202030-IL
	CN	2107,2110 CN,WAFER	L109012512320-IL
	CN	2112 CN.WAFER	L109012510920-IL
	CN	2113,2203 CN,WAFER	L109012512120-IL

RESISTORS

	R	720	C060010063050-IL

H FRONT ASSY

SEMICONDUCTORS

	IC	3001	PE5615A
	IC	3005	J126077004210-IL
⚠	IC	9103	J126111700041-IL
	Q	3011	J5001266G0050-IL
	D	3007,3009,3011,3013	K500052009011-IL
	D	9001	K06006R844520-IL

MISCELLANEOUS

	V	3001 DISPLAY,FLT	K530166400010-IL
	S	3001-3015 SWITCH	G180501000010-IL
	S	3024 SW,ENCODER	G121125042011-IL
	X	3001 RESONATOR,CERAMIC	E830500000020-IL
	X	3002 CRYSTAL	E80015R000020-IL
		3000 FL HOLDER	4320211016000-IL
	U	3001 MODULE,REMOCON	E940349003810-IL

RESISTORS

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

Mark	No.	Description	Part No.

I POWER ASSY

MISCELLANEOUS

	S 3401	SWITCH	G180501000010-IL
	S 3501	SW,ENCODER	G121125052011-IL

J MIC ASSY

SEMICONDUCTORS

	IC 3652		J121458001010-IL

MISCELLANEOUS

	JA 3654	JACK,D3.5	G401PJ354H40Y-IL

K FVIDEO ASSY

MISCELLANEOUS

	JA 3656	TER,RCA 1PIN	G600101HG000Y-IL

L HP ASSY

MISCELLANEOUS

	JA 701	JACK,D6.5	G402PJ612AG1Y-IL

M G-L ASSY

There is no service parts.

N G-R ASSY

There is no service parts.

O WG-A ASSY

There is no service parts.

P WG-B ASSY

There is no service parts.

Q CCG ASSY

There is no service parts.

R BTCNT ASSY

MISCELLANEOUS

	CN 602	CN.WAFER 2.0MM	L101100041110-IL
	600	BRACKET	4010210196100-IL

S FHDMI ASSY

SEMICONDUCTORS

	IC 8202		PCA9517DGK

MISCELLANEOUS

	JA 8202	CN.WAFER	L109100190060-IL
	JA 8203	CN.WAFER	L109100190170-IL

T F-USB ASSY

MISCELLANEOUS

	JA 600	CN,PLUG CONTACT	G480040000180-IL

U SMPS ASSY

SEMICONDUCTORS

⚠	IC 100		K614123000010-IL
⚠	IC 102		J122258001010-IL
⚠	IC 116		J126243118010-IL
	Q 9100-9102		J5023198Y0000-IL
⚠	D 100-102,104		K040540600030-IL
⚠	D 103		K120306005510-IL
	D 105,106,109,110		K000400700220-IL
	D 108		K050000015000-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
⚠	RY 101	RELAY	G680050102020-IL
⚠	T 100	TRANS,SWITCHING	E060283405510-IL
⚠	CN 9100	CONNECTOR	L108396030010-IL
⚠	CN 9102	CN.WAFER 7.92MM	L108011430210-IL
	100,102	BRACKET	4010210196100-IL
⚠	FU 100	FUSE GLASS TUBE 20MM	N751503151160-IL
⚠	FU 101	FUSE GLASS TUBE 20MM	N751508001160-IL

RESISTORS

⚠	R 100		C060015564520-IL
⚠	R 101		C060022563520-IL
	R 104		C060022563520-IL
⚠	R 105,113,115		C060010563520-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 131,133		D008103589010-IL

V BT ASSY

SEMICONDUCTORS

⚠	IC 600		BD2224G

MISCELLANEOUS

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