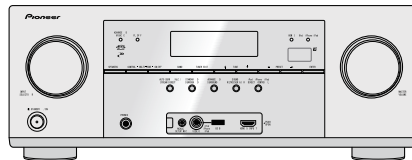


Pioneer

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	



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SAFETY INFORMATION



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

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

WARNING

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

Health & Safety Code Section 25249.6 - Proposition 65

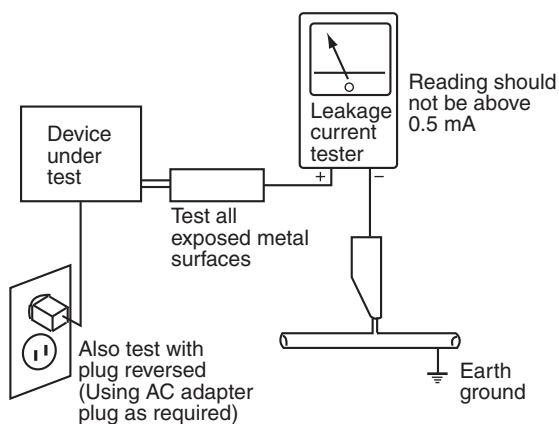
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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



AC Leakage Test

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

2. PRODUCT SAFETY NOTICE

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

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

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

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

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.
- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C.
Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

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

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

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

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

1.2 NOTES ON REPLACING PARTS

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

Assy Name	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 k Ω

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 ϕ 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 k Ω

Output (Level/Impedance)

REC 315 mV/2.2 k Ω

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 ϕ 3.5 Mini-jack (MONO)

IR signal High Active (High Level: 2.0 V)

12 V Trigger terminal ϕ 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 consumption550 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.
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■ 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 k Ω
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) terminalø 3.5 Mini-jack (MONO)
IR signal..... High Active (High Level: 2.0 V)

Network Section

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

Miscellaneous

Power requirements.....AC 120 V, 60 Hz
Power consumption550 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)

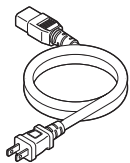
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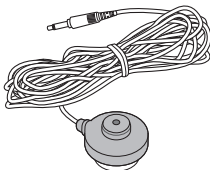
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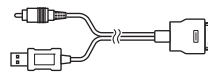
A ■ Accessories



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)

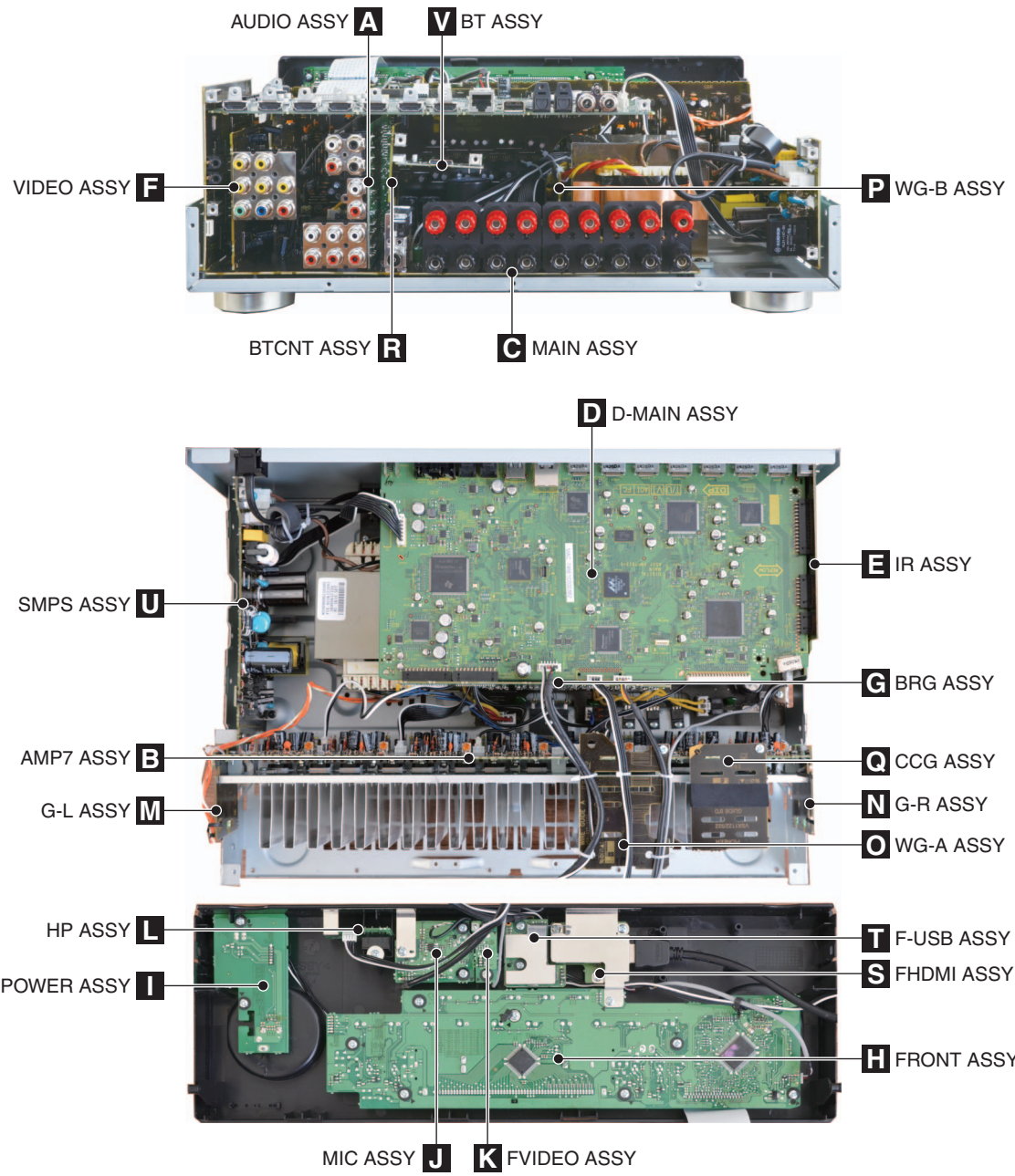
Lubricants and Glues List



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

1 2 3 4

3.3 PCB LOCATIONS



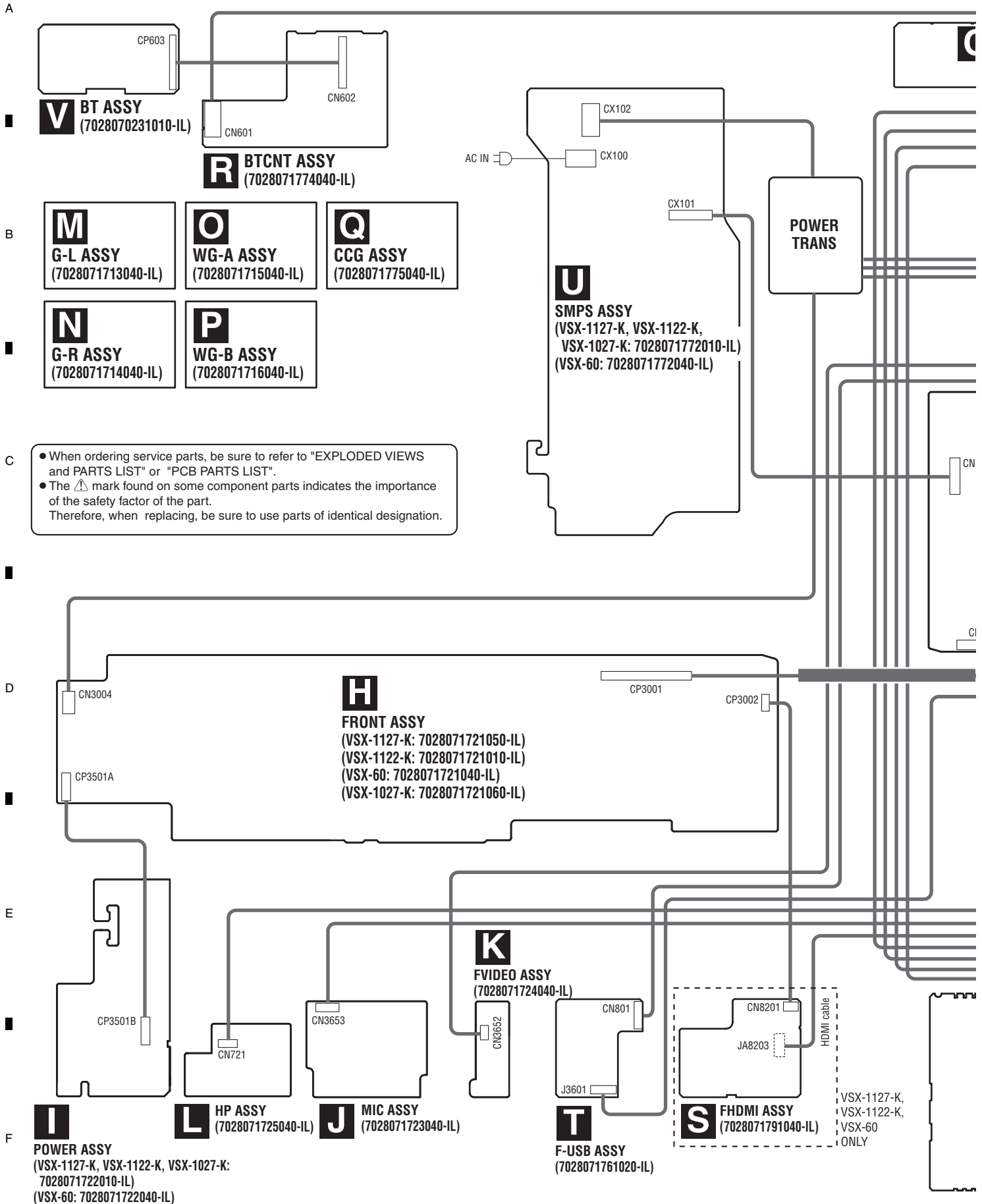
NOTES: ● Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.
 ● The Δ mark found on some component parts indicates the importance of the safety factor of the part.
 Therefore, when replacing, be sure to use parts of identical designation.

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

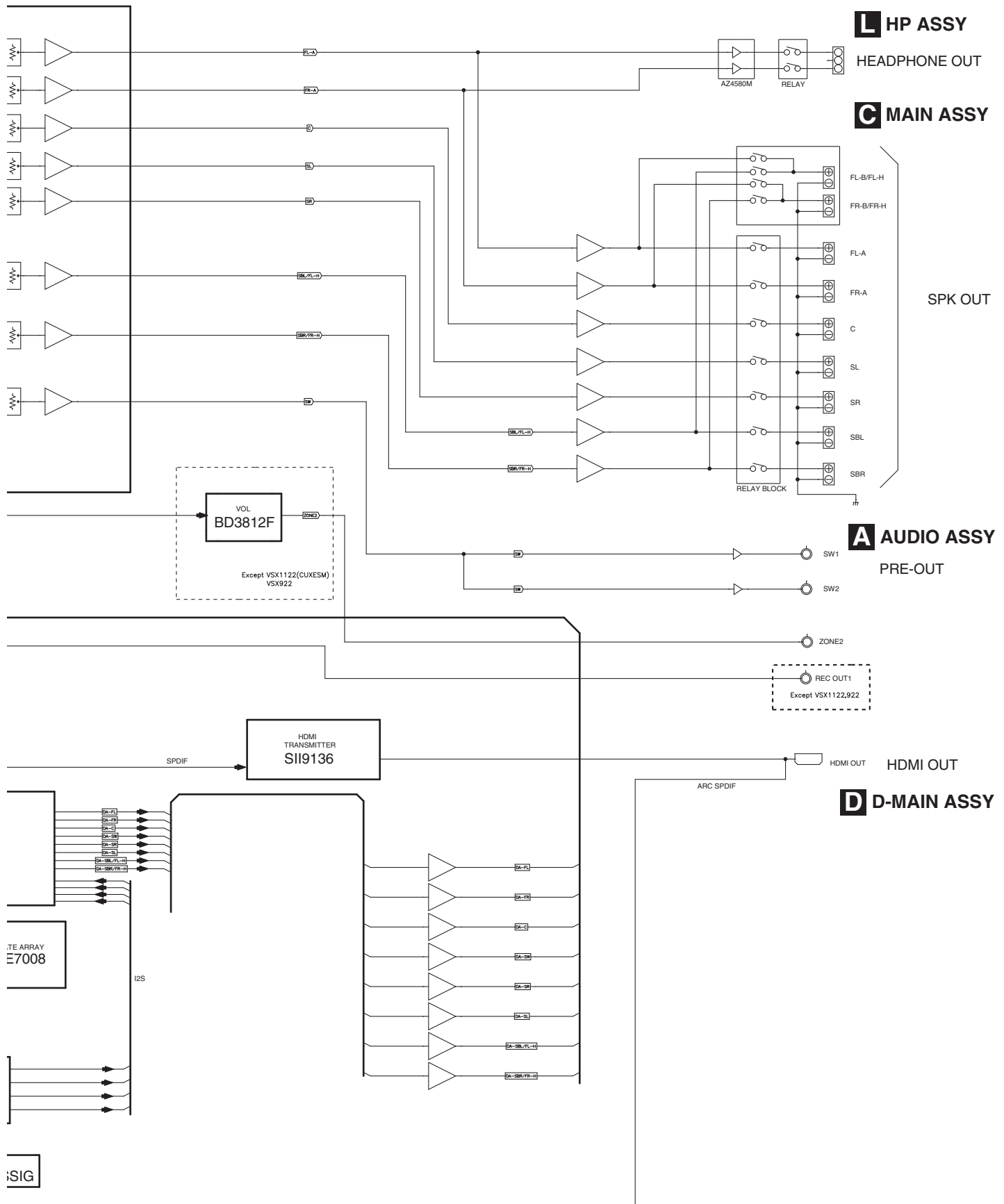
4.1 OVERALL WIRING DIAGRAM





△



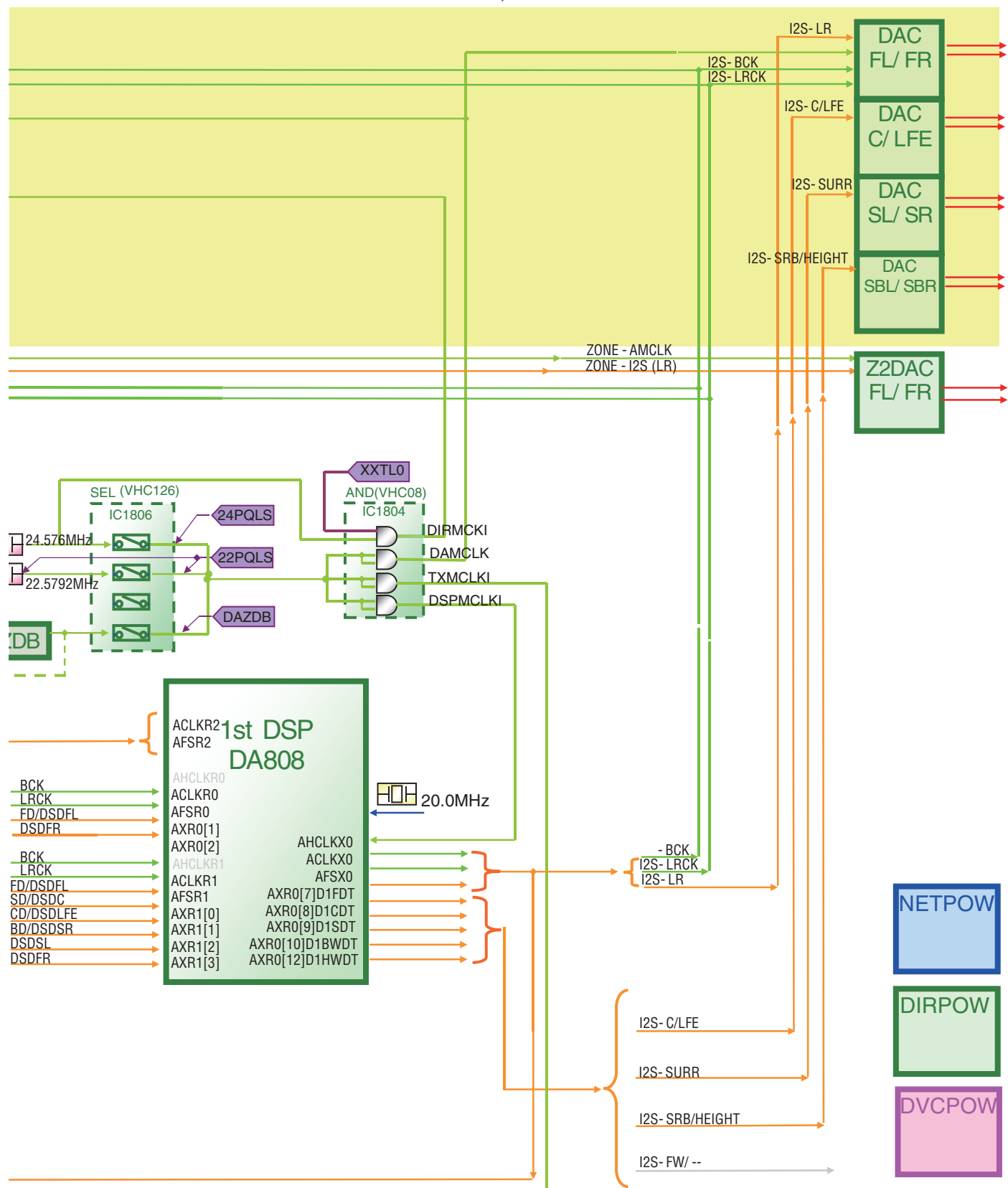


△

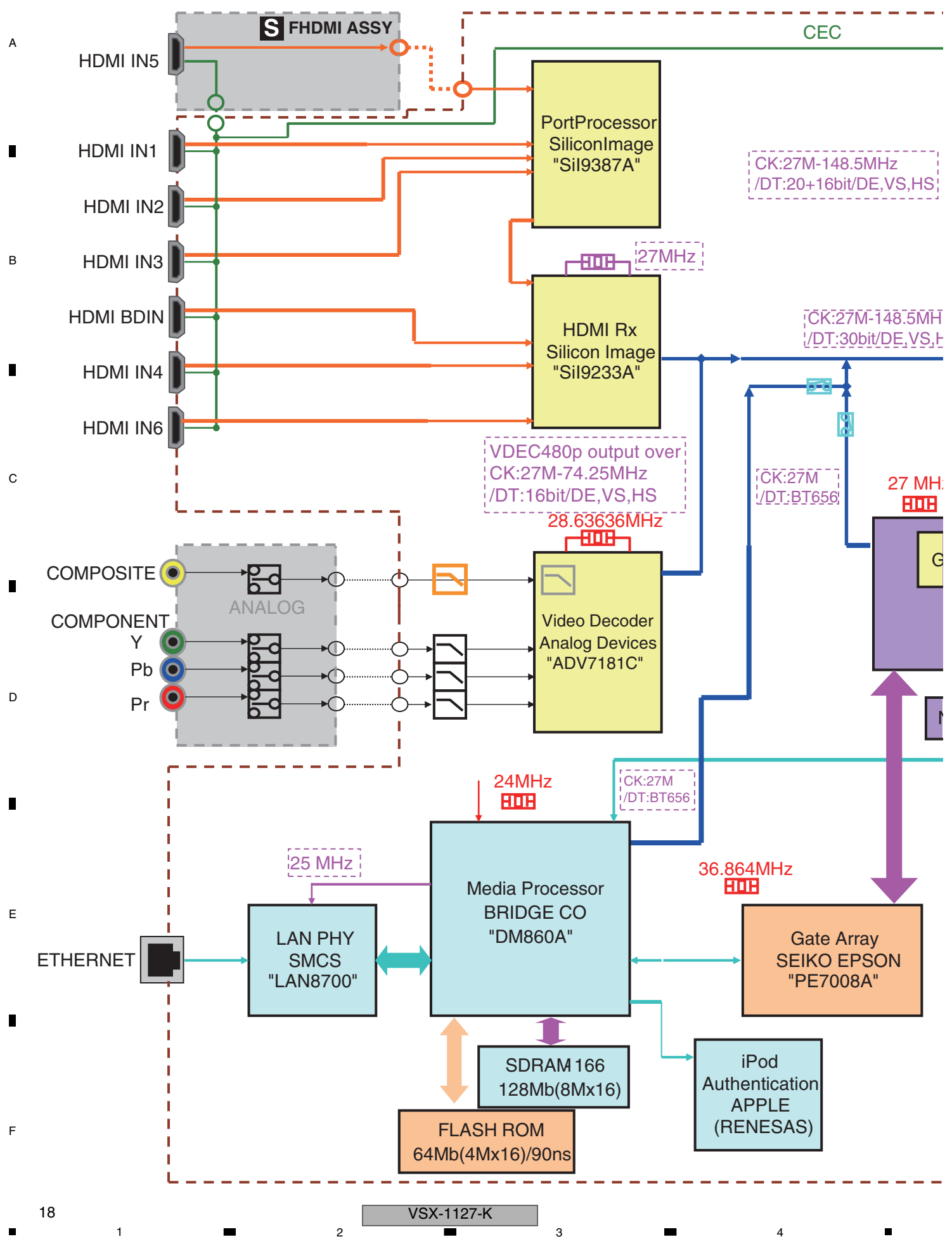
A

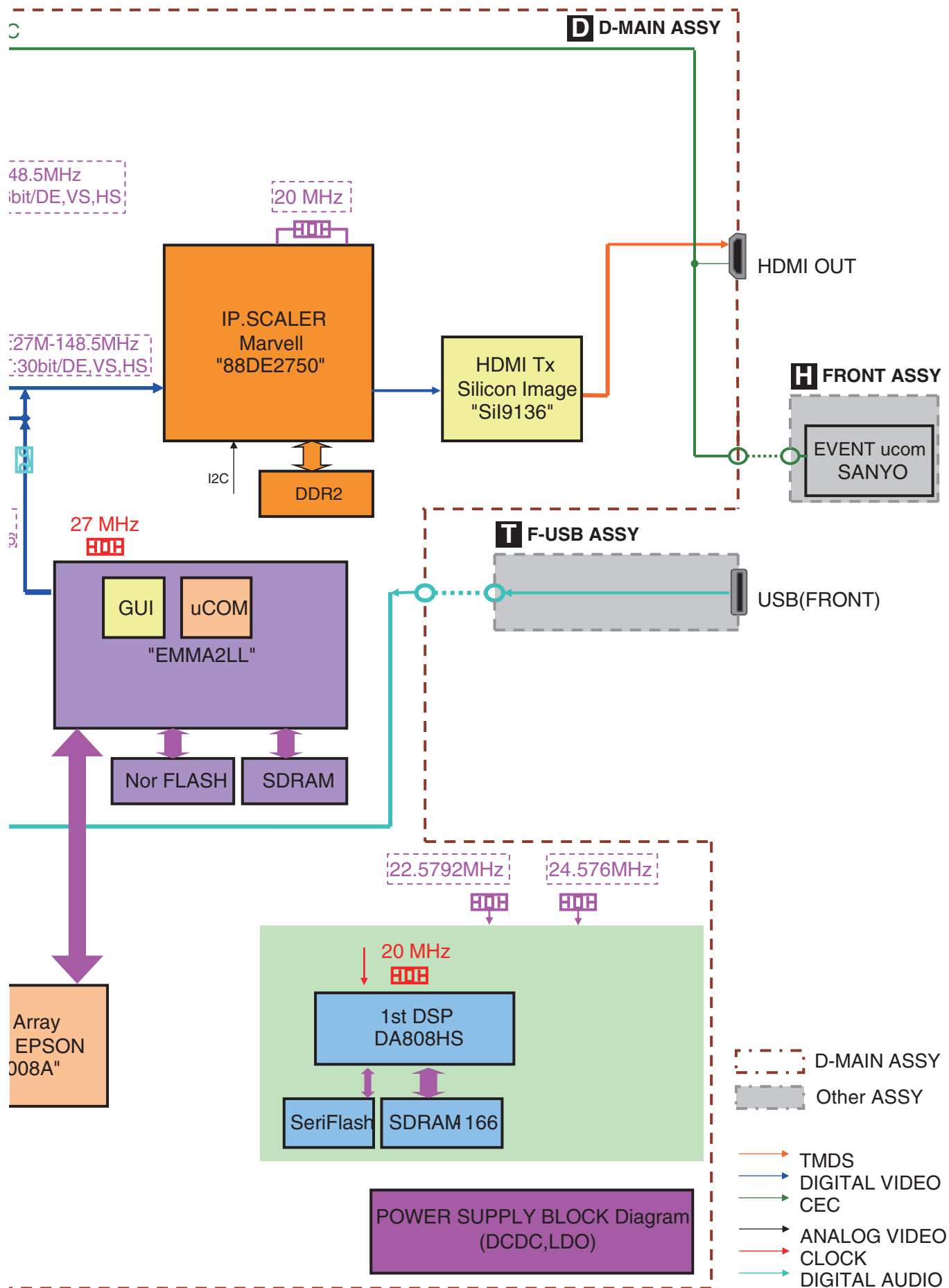


SPDIF → AMCLK → I2S → SYSCLK → FLG
 I2S BCK, LRCK



4.4 D-VIDEO BLOCK DIAGRAM

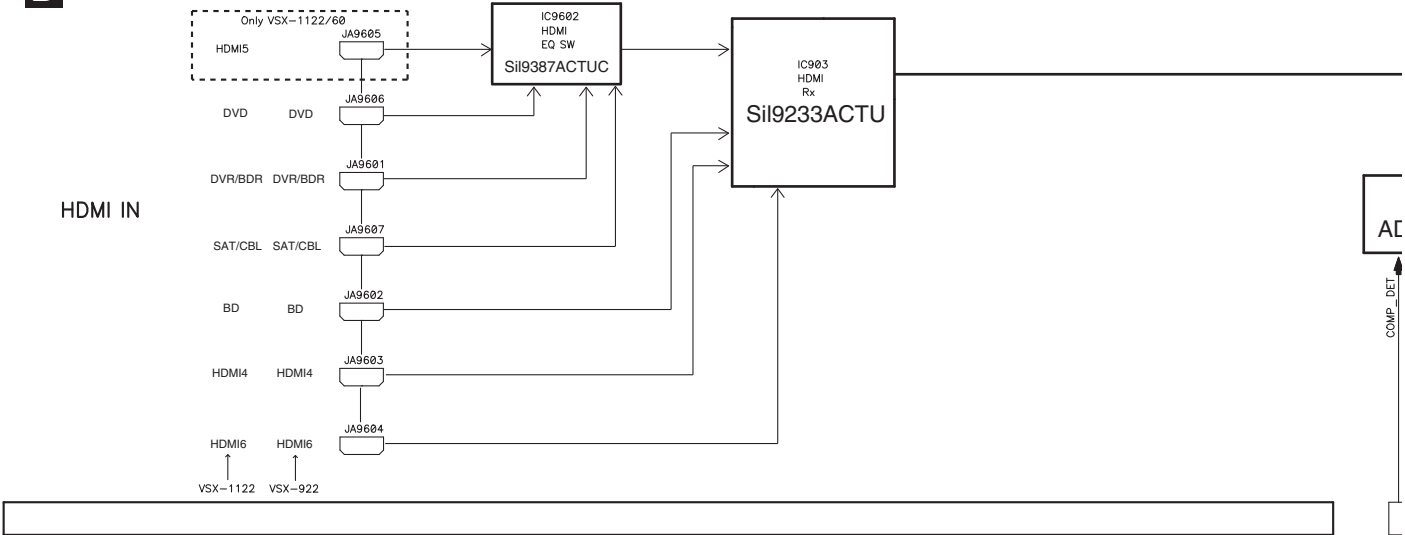




4.5 VIDEO BLOCK DIAGRAM

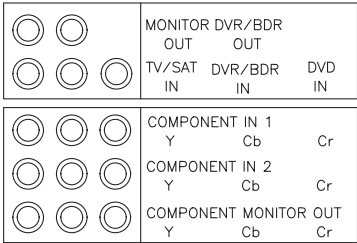
A

D D-MAIN ASSY



B

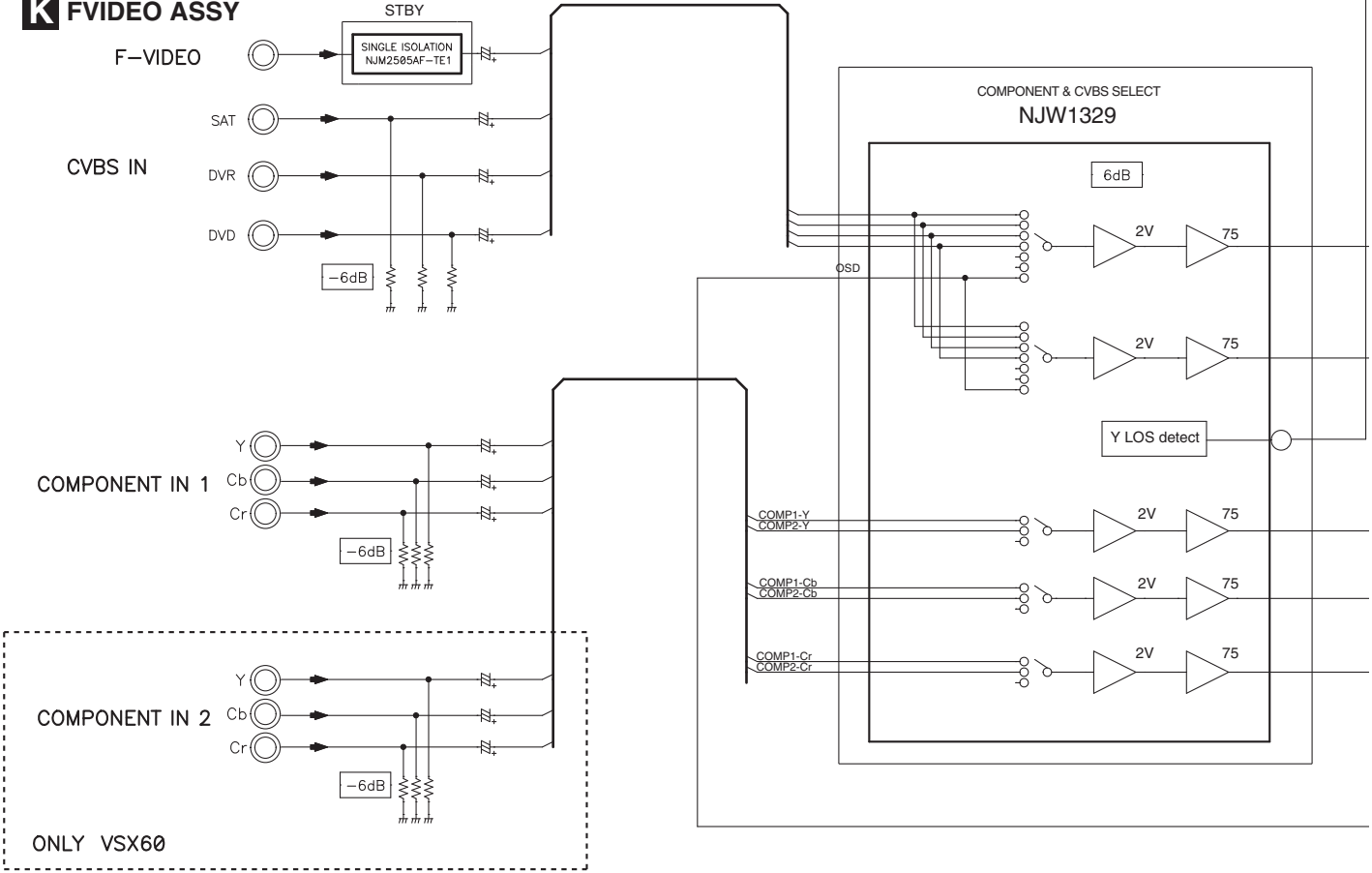
BACK



C

D

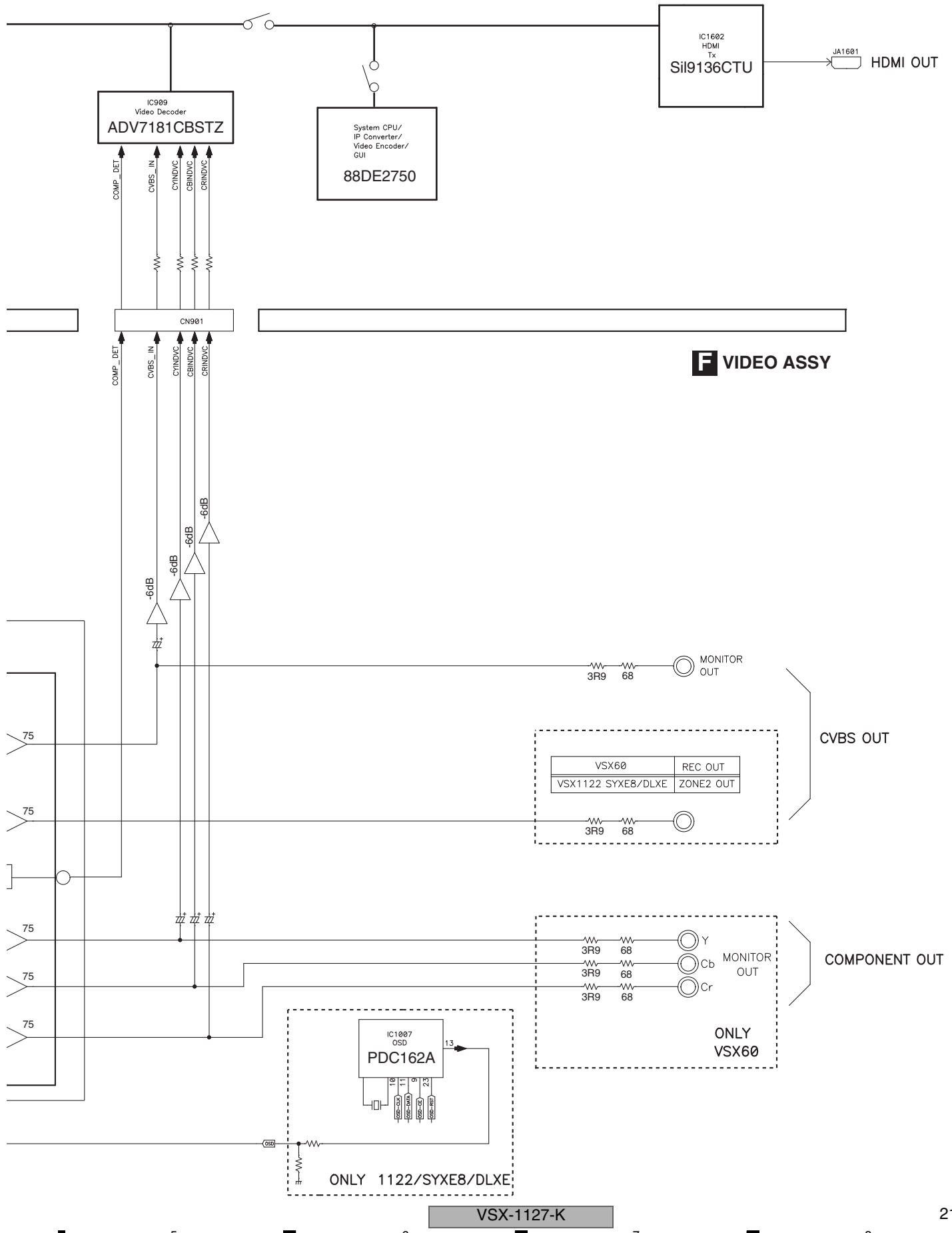
K FVIDEO ASSY



E

F

— TMS
 — Video BUS
 — Analog Video



A

B

C

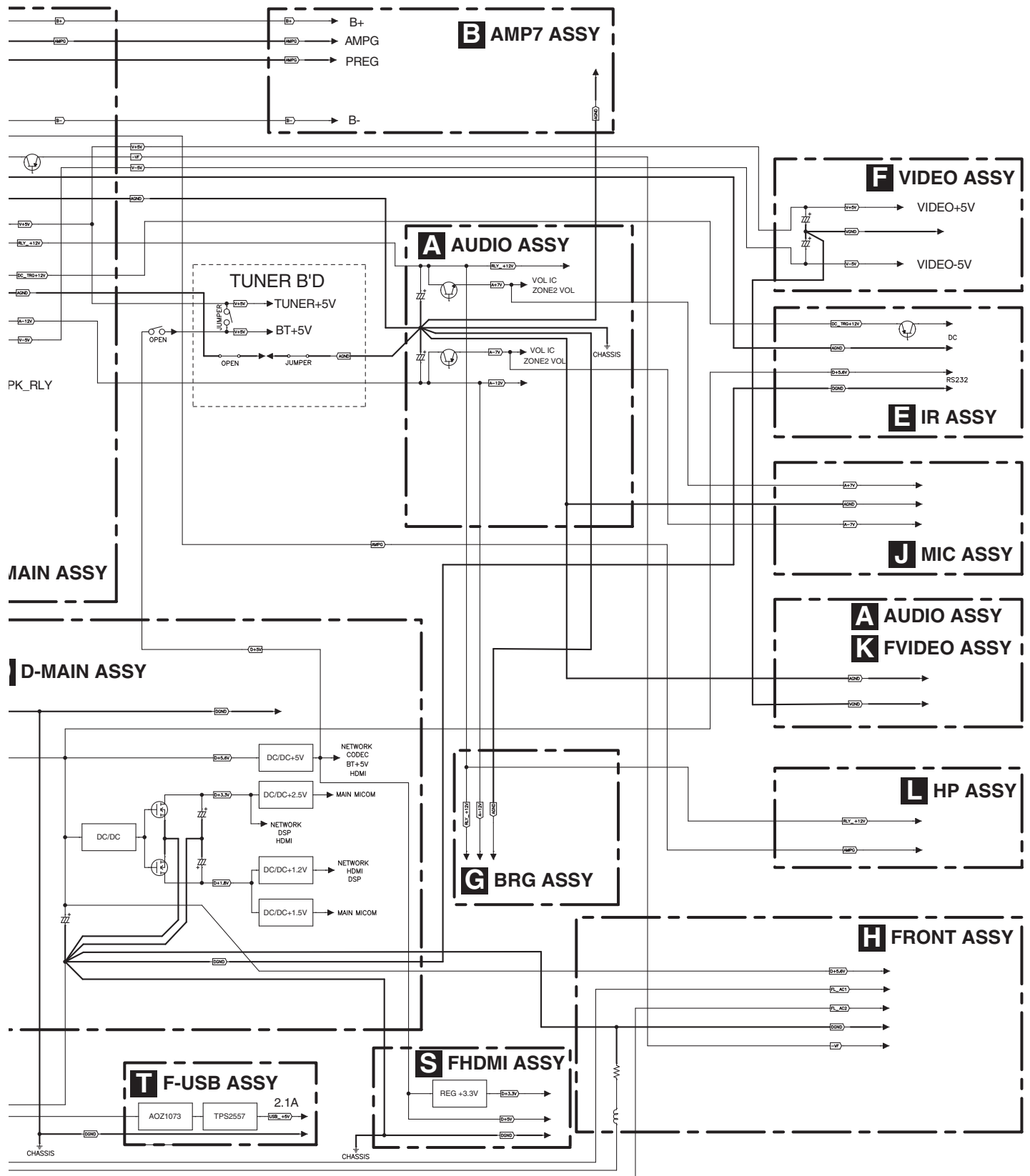
D

E

F

△



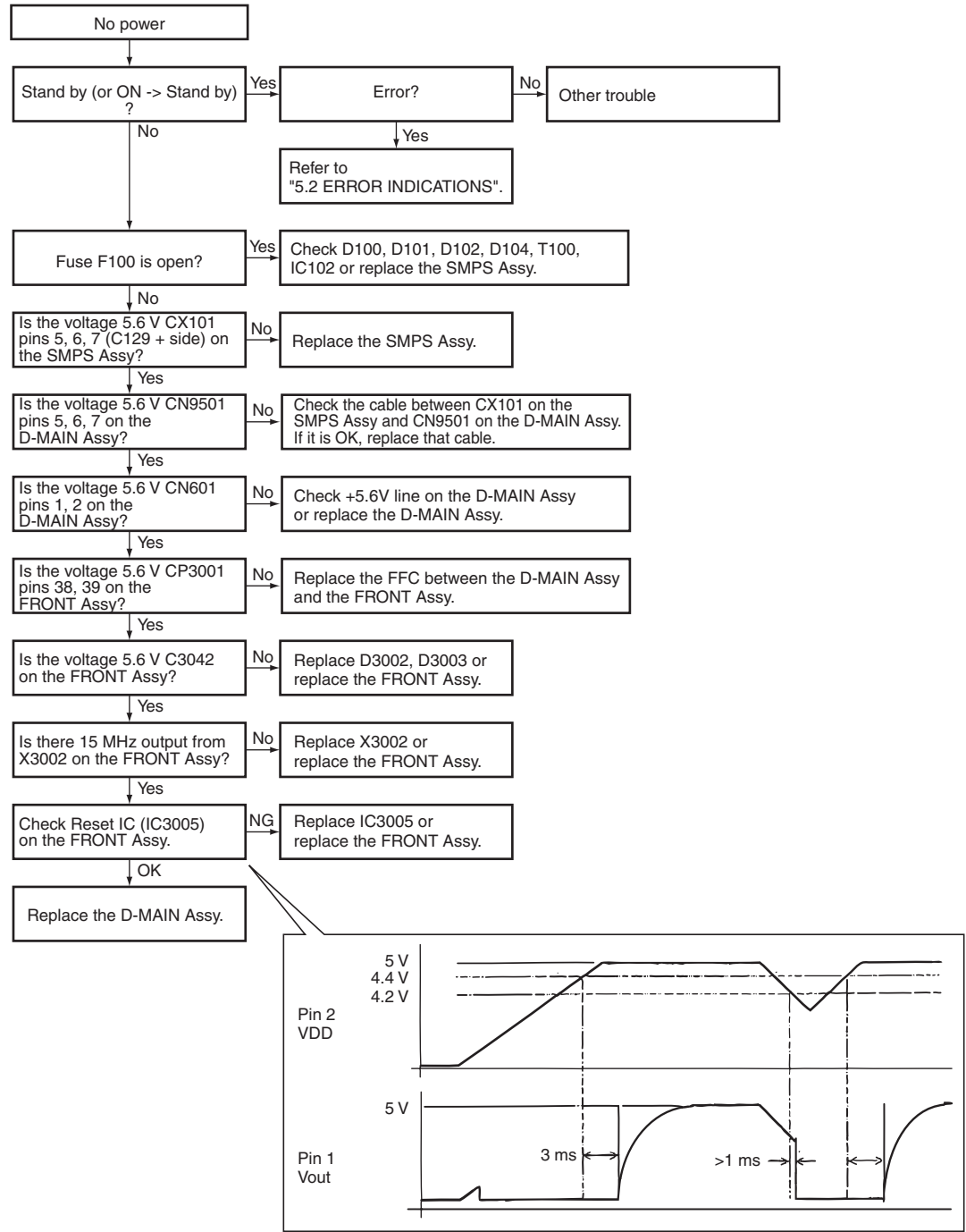


5. DIAGNOSIS

5.1 TROUBLESHOOTING

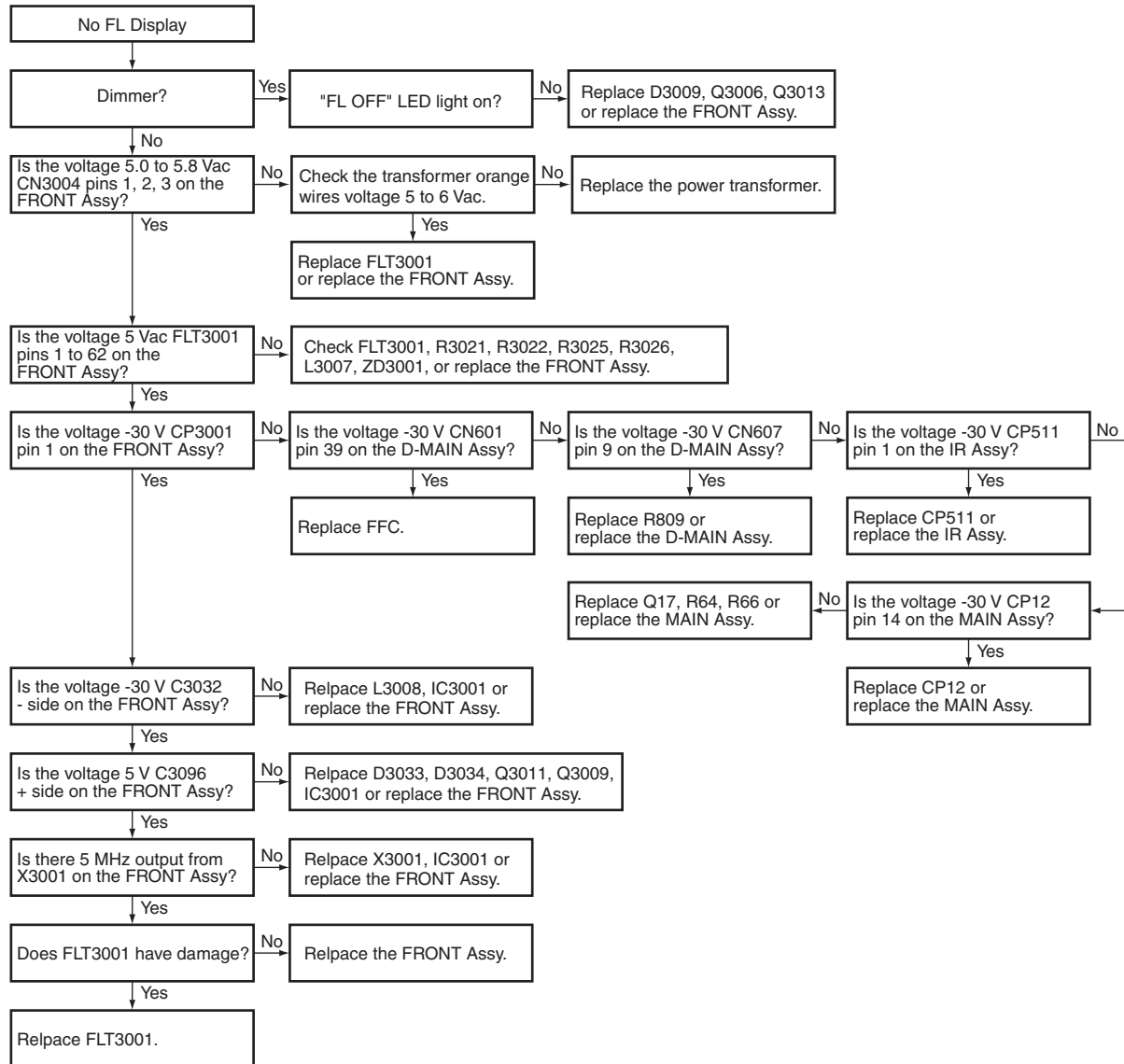
A No Power

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



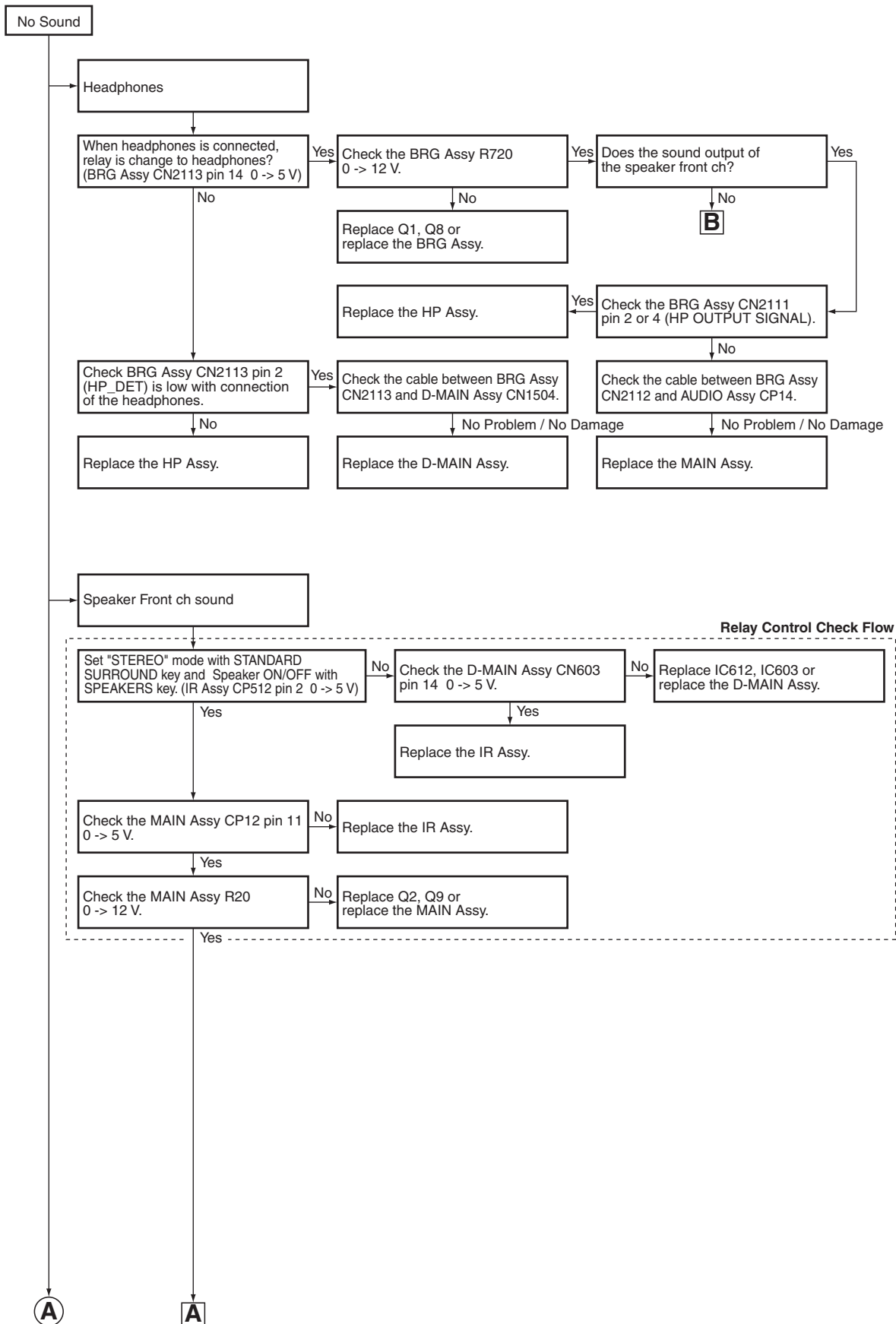
No FL Display

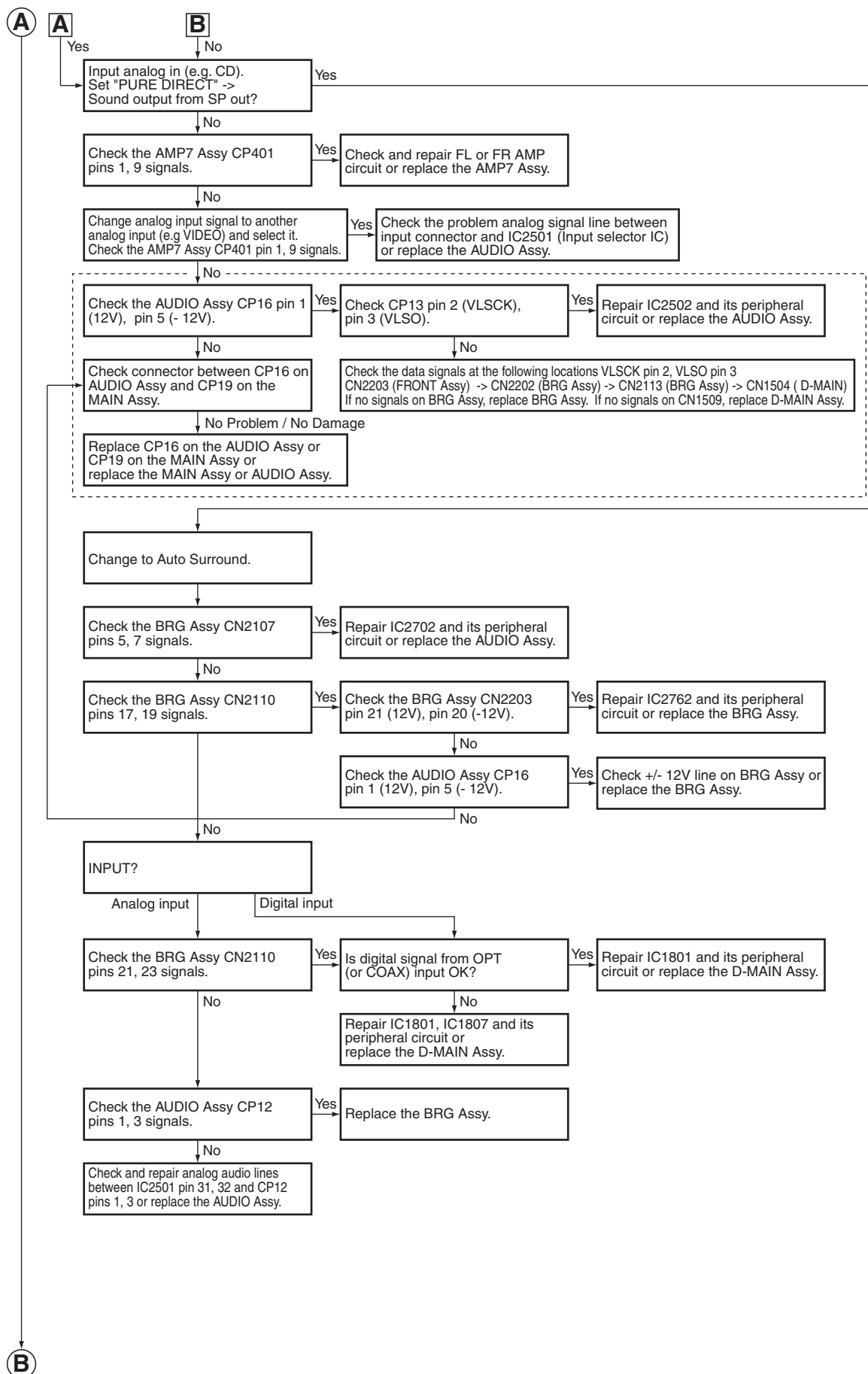
This is just for general reference and does not including every single case.



A No Sound

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





A

B

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

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

No

Change SP System and SP
Setting to correct setting.

Yes

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

No

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

Yes

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

Yes

Select Surround mode to
EX. STEREO in Advanced Surround.

No

SP-B no sound

Input analog signals to analog in
(e.g. CD), SP selection should be
"SP:B ON", check SBR, SBL channels.

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

Yes

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

No

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

Yes

Replace AUDIO Assy or
their peripheral circuit.

No

Check signals on BRG Assy CN2110
pins 5, 7, 9, 11, 13, 15 signals.
(Pin assign is same as CN2107)

Yes

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

No

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

Yes

Replace the D-MAIN Assy.

No

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

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.

B

C

D

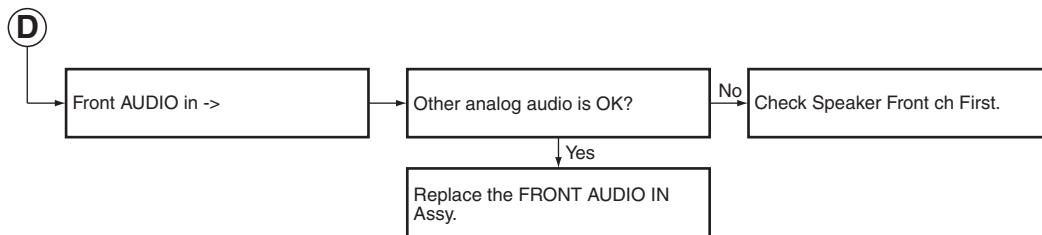
E

F

C



A



B

No Picture

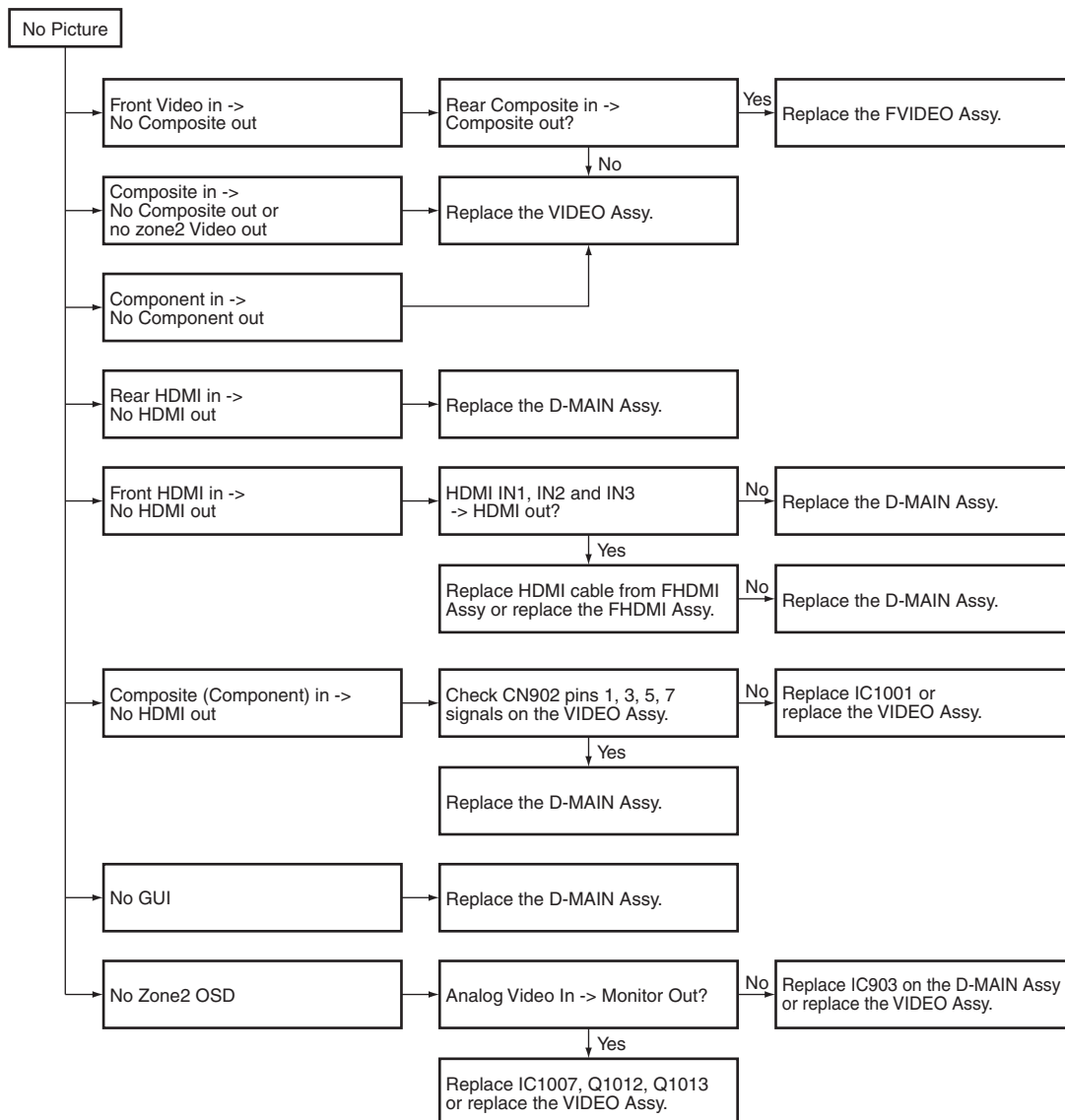
This is just for general reference and does not including every single case.

C

D

E

F



Others

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

12V Trig

12V Trig

No

RS-232C

RS-232C

No

IR

IR



Remote control

Yes

↓ No

Replace the FRONT Assy.

Replace the IR Assy.

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]

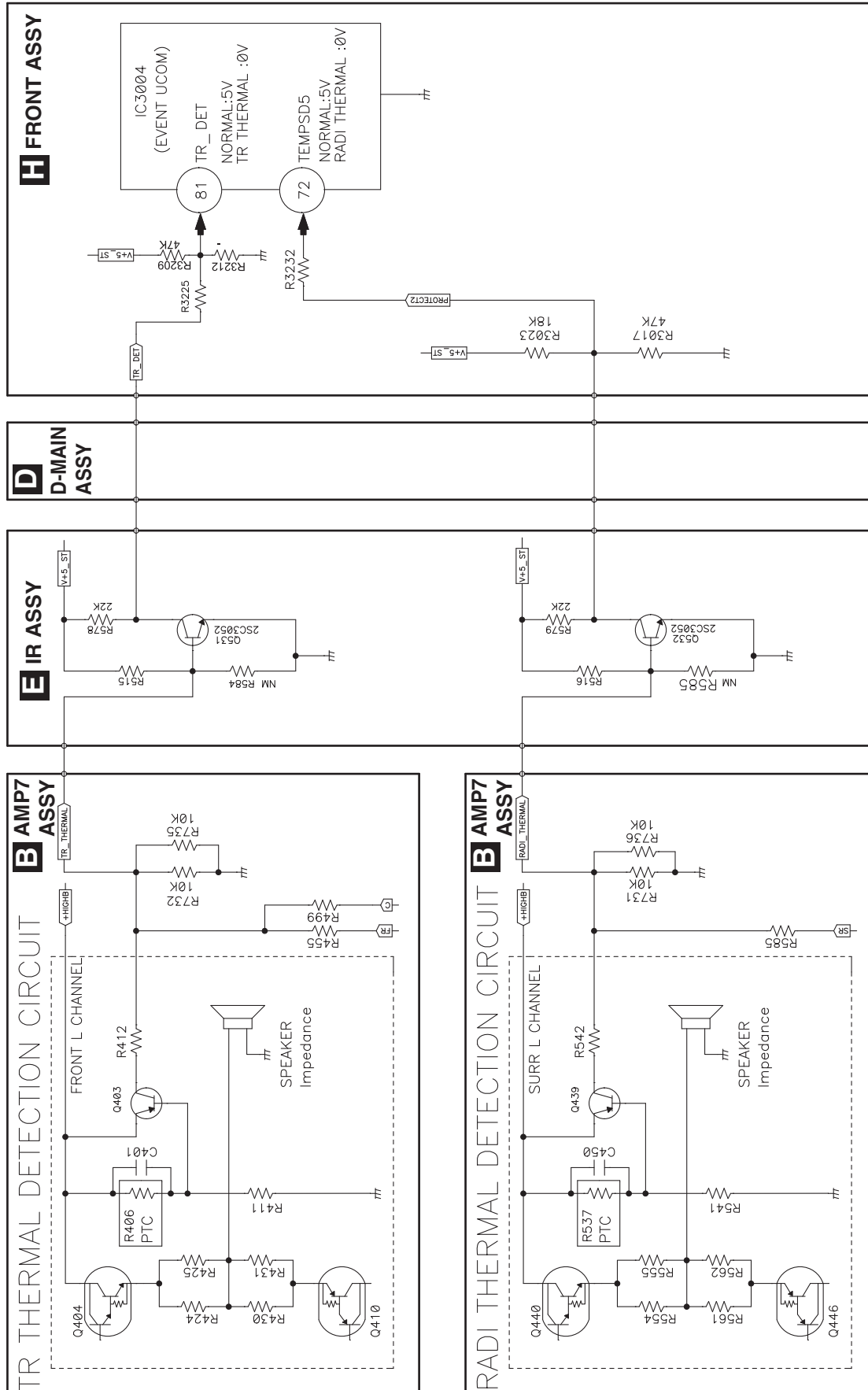
Item	FL Display	LED Flashes	NG Count.	Detection Method	Process After Detection	Description / Remarks
"AMP DC" ("DC output from SP term") detection	Flashing "AMP ERR" for 3 seconds	ADVANCED MCACC LED	DC	XDCERR (Pin 80 of IC3004) Detect "L"	1) Muting on, speaker relay off. 2) "AMP ERR" flashing 3) Shutdown 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 temperature.
"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 (MIL_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.

F

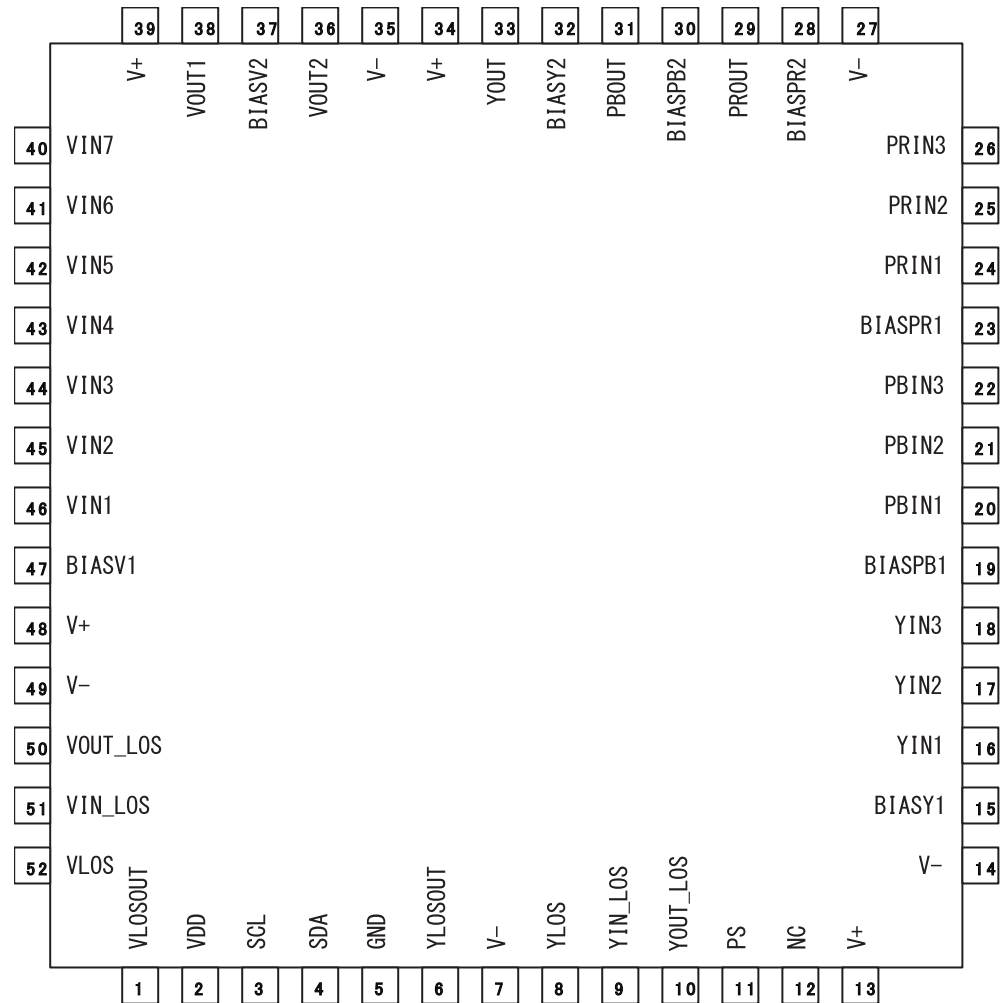
A [2] TEMP Protection Circuit



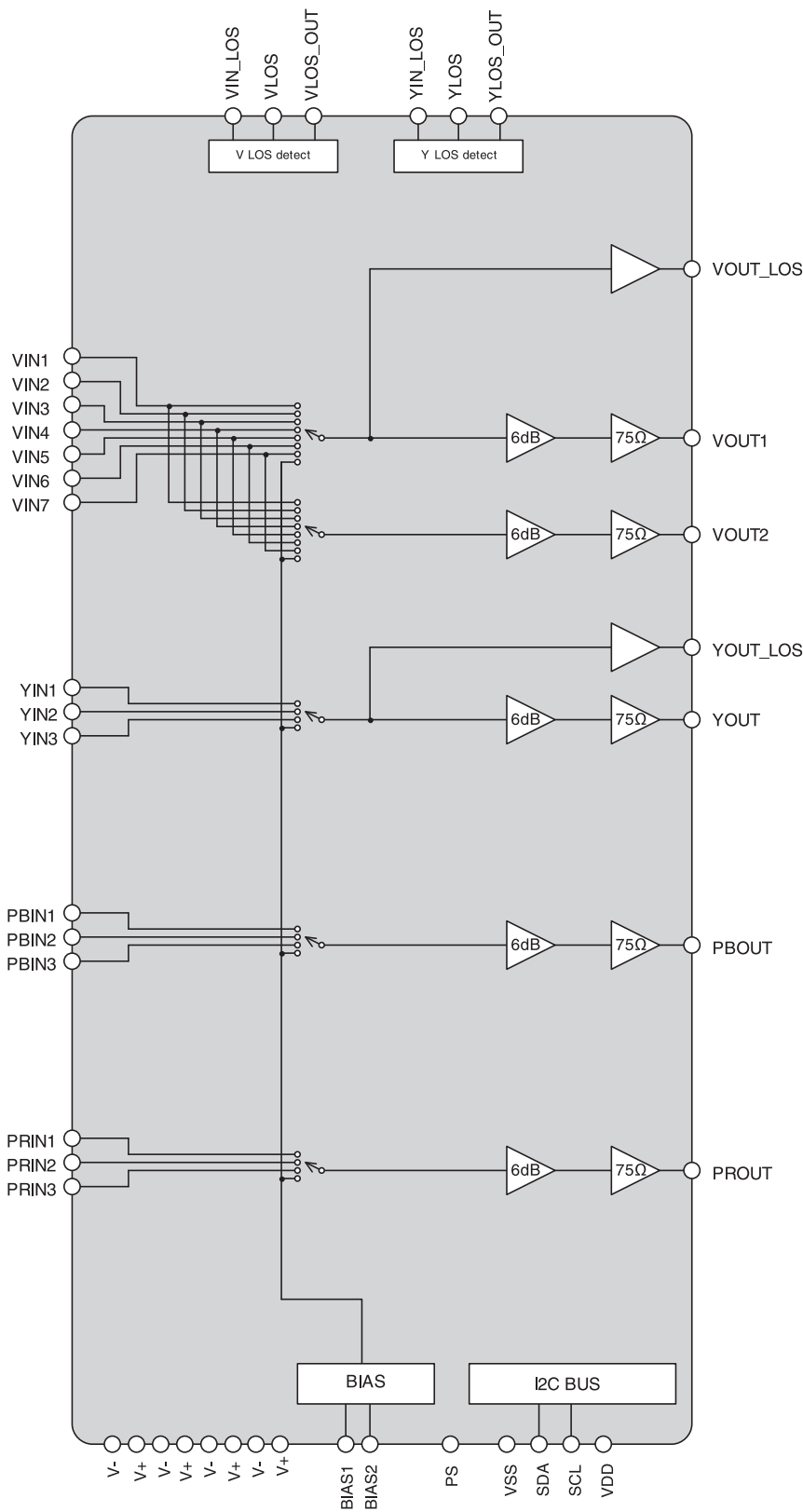
■ J171132900010-IL (VIDEO ASSY: IC1001)

IC, MONITOR SW

• Pin Arrangement (Top view)



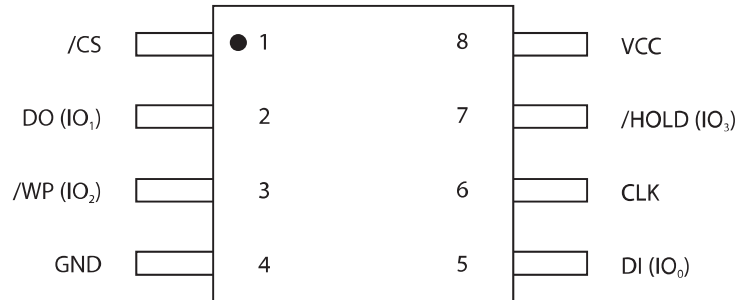
A • Block Diagram



■ (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 (IO ₁)	I/O	Data Output (Data Input Output 1)* ¹
3	/WP (IO ₂)	I/O	Write Protect Input (Data Input Output 2)* ²
4	GND		Ground
5	DI (IO ₀)	I/O	Data Input (Data Input Output 0)* ¹
6	CLK	I	Serial Clock Input
7	/HOLD (IO ₃)	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

A

[1] Detected protection history

[Purpose]

The numbers of detections for various protection processes are displayed.

[How to enter]

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

[How to exit]

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

B

[Basic operations]

C

D

E

F

Key operation	FL display
Display number of times DC is detected.	DC : ***
[↓] [↑]	
Display number of times OVERLOAD is detected.	OL : ***
[↓] [↑]	
Display number of times COMBINATION is detected. (Detects DC and OVERLOAD simultaneously)	COM : ***
[↓] [↑]	
Display number of times Power abnormality is detected.	XPRT : ***
[↓] [↑]	
Display number of times AMP overheat is detected.	STMP : ***
[↓] [↑]	
Display number of times Digital Power abnormality is detected.	DERR : ***
[↓] [↑]	
Resetting the number of times error is detected.	RESET ◀HOLD▶
[↓] [↑]	

Front Panel Key

[↓] : TUNE key

[↑] : TUNE key

[←] : PRESET key

[→] : PRESET key

Resetting the number of times error is detected

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

Key operation	FL display
Display accumulated time & RESET. [↓] [↑]	1 2 3 4 5 h 2 0 m ◀ H L D ▶
Display CEC(TEST) state. [↓] [↑]	CEC ◀ OFF ▶
Display FAN(TEST) state. This function does not work on this model. [↓] [↑]	FAN ◀ OFF ▶
USB Backup state [↓] [↑]	USB BAK ◀ HOLD ▶
Display Model Name/Destination state. [↓] [↑]	VSX-1127/CUXE
Change cyclically	

[Description]

CEC TEST : The function for making the HDMI output terminal to output 4 Hz square wave. If the square wave is output, the CEC line is considered to be normal.

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

Resetting the accumulated time

Key operation	FL display
[←][→]	1 2 3 4 5 h 2 0 m ◀ CL ? ▶
[ENTER]	0 h 0 0 m ◀ 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. ↓ 5 sec Power OFF (All zone OFF)	COMPLETE

A 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
B	Crossover	80 Hz
	X-Curve	OFF
	DIMMER	Brightest
	HDMI	
C	HDMI Audio	Amp
	Control	OFF
	Control Mode	--- (OFF)
	ARC (Audio Return Channel)	--- (OFF)
	PQLS	--- (AUTO)
	Standby Through	OFF
	DSP	
	Power On Level	LAST
D	Volume Limit	OFF
	Mute Level	FULL
E	Phase Control	ON
	Auto Sound Retriever	iPod/USB, INTERNET RADIO, SiriusXM, PANDORA, MEDIA SERVER, FAVORITES, ADAPTER PORT input function
F		Other input functions
	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
G	PL II Music Options	Center Width 3
		Dimension 0
		Panorama OFF
	Neo:6 Options	Center Image Neo:6 CINEMA: 10 Neo:6 MUSIC: 3
H	PL IIz Options	Height Gain MID
		Listening Mode (2 ch/multi ch) AUTO SURROUND
		Listening Mode (Headphones) STEREO
	All Inputs	
I	MCACC	
	MCACC Position Memory	M1: MEMORY 1
	Channel Level (M1 to M6)	0.0 dB
	Speaker Distance (M1 to M6)	10'00"
J	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 		
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:

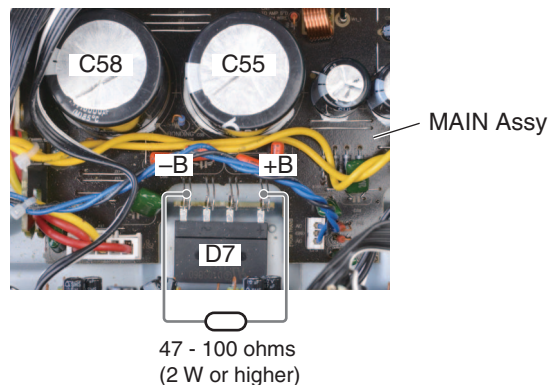
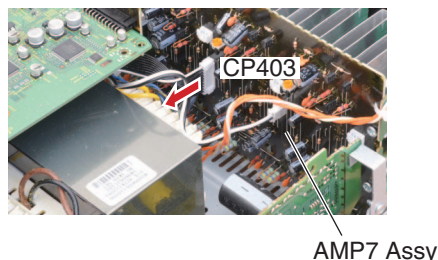
- (1) Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.
- (2) For performing the diagnosis shown below, the following jigs for service is required:
 - 13P extension jig cable (GGD1740)
 - 3P extension jig cable (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]

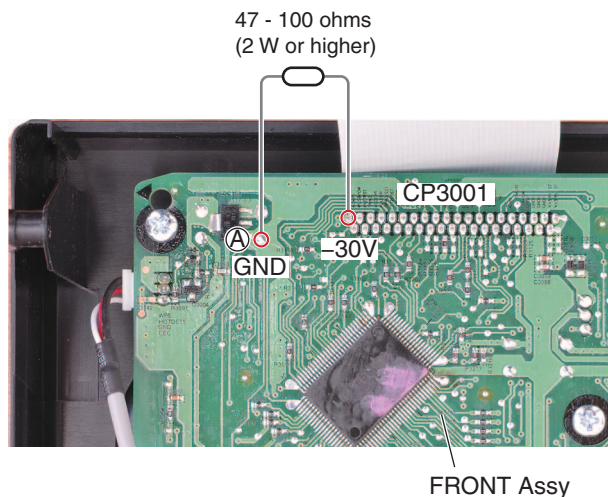
- (1) Unplug the power cord.
- (2) Disconnect the 10P connector from CP403 of the AMP7 Assy between CN3 of the MAIN Assy.
- (3) Connect +B and -B terminal of the D7, using resistor leads with 47 - 100 ohms (2 W or higher), for discharging.
 - * Discharging time: 30 - 60 seconds, depending on the level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

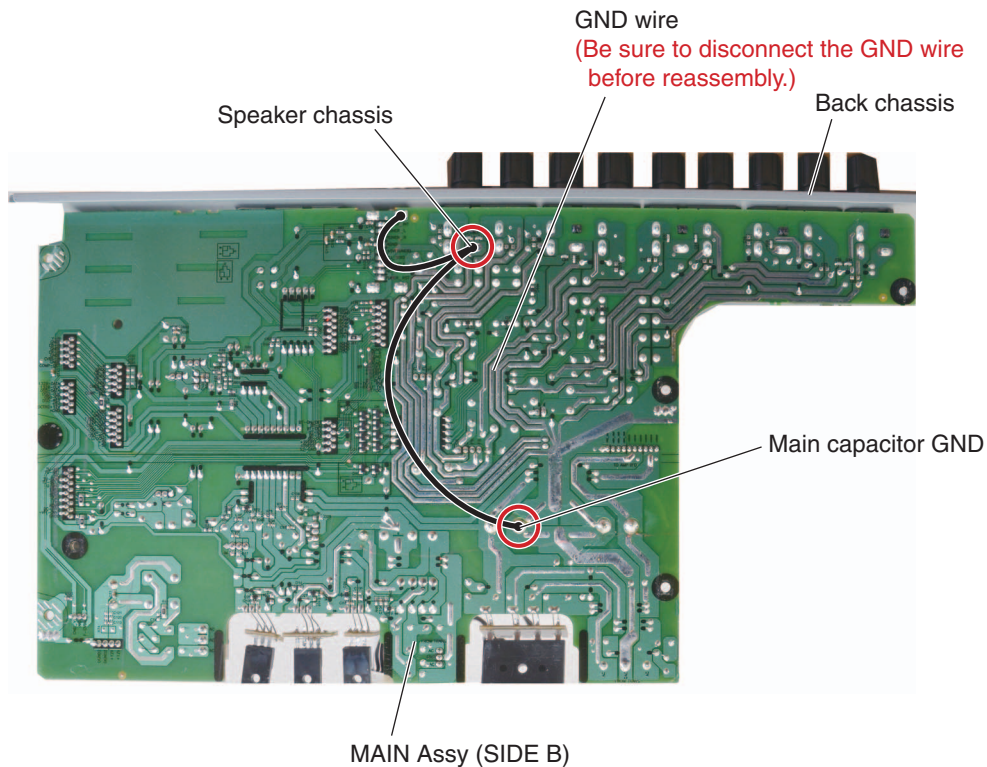


2. Notes on Ground Points Connection

[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.**

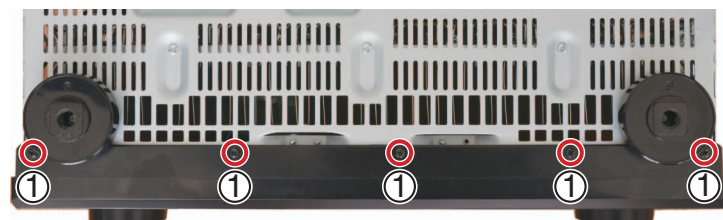


3. Disassembly

[1] Front Panel Section

Remove the cabinet by removing the 10 screws.

(1) Remove the five screws. (BBZ30P080FTB)



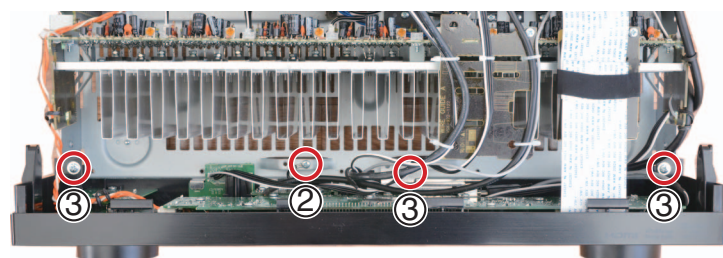
• Bottom view

(2) Remove the one screw.

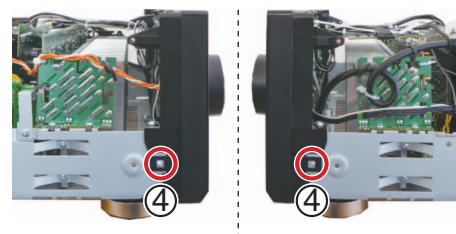
(BBZ30P080FTC)

(3) Remove the three screws.

(1500001206010-IL)

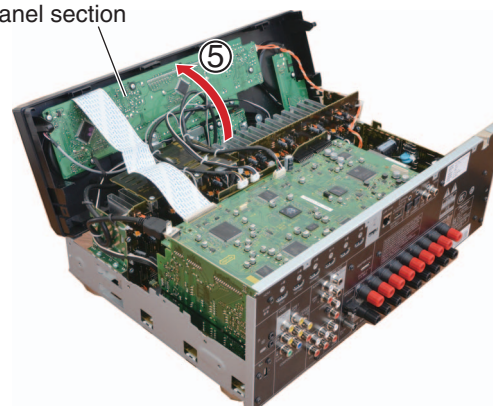


(4) Unhook the two hooks.



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

Front panel section

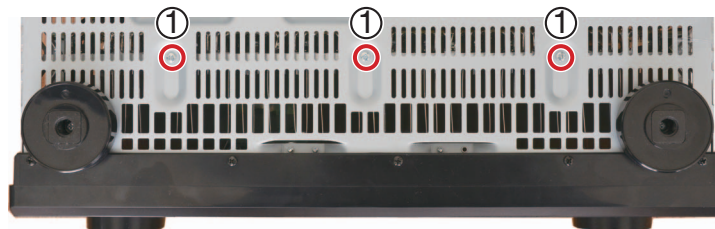


A [2] Heatsink Section

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

Remove the cabinet by removing the 10 screws.

(1) Remove the three screws. (BBZ30P080FTC)

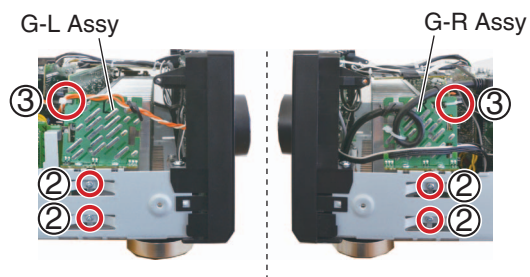


• Bottom view



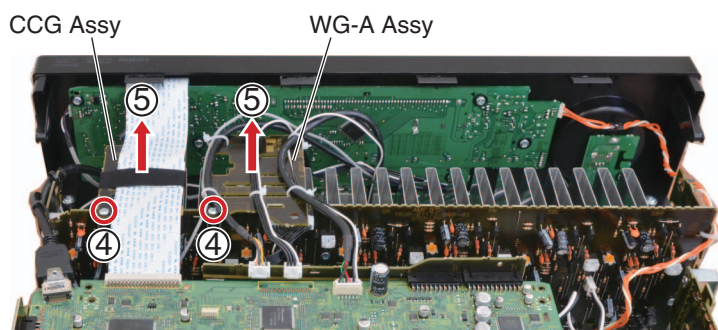
(2) Remove the four screws. (BBZ30P080FTC)

(3) Cut the two binders.

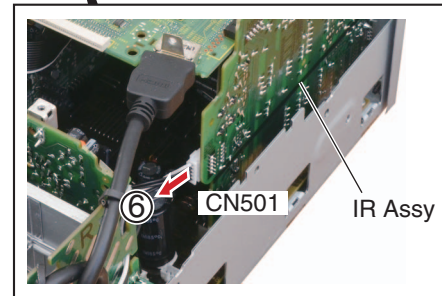
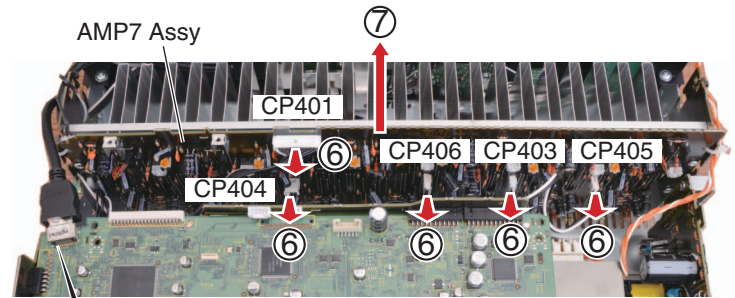


(4) Remove the two screws. (BBZ30P080FTC)

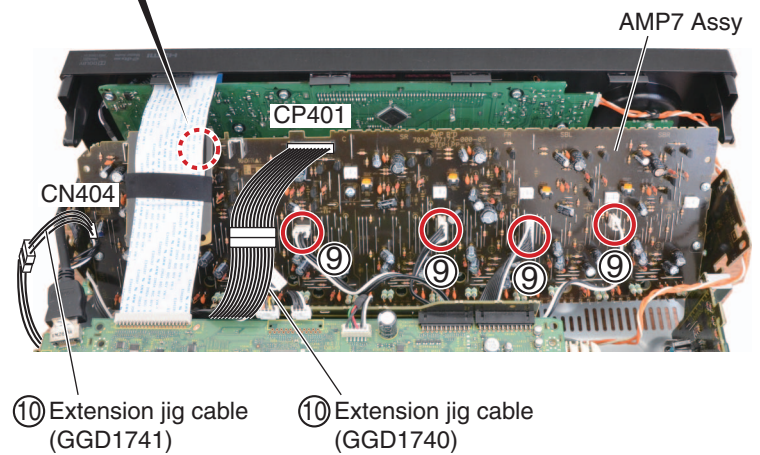
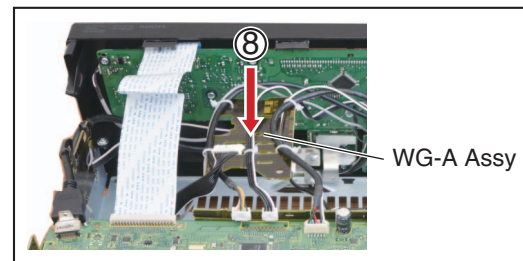
(5) Remove the WG-A and CCG Assemblies.



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



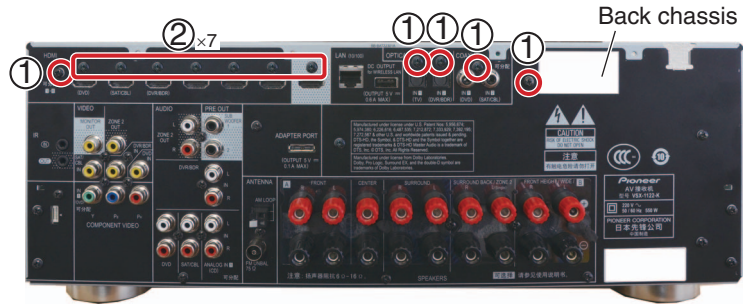
- (8) As shown, arrange the Heatsink section over the WG-A Assy.
 (9) Re-connect the four connectors.
 (10) Connect the two extension jig cables.



A [3] D-MAIN Assy

Remove the cabinet by removing the 10 screws.

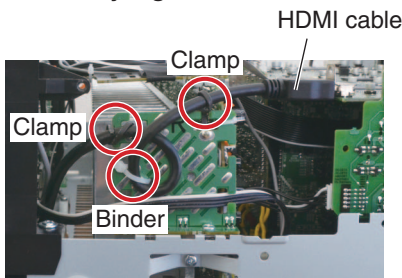
- (1) Remove the five screws. (BBT30P100FTB)
- (2) Remove the seven screws. (BSZ30P040FTB)



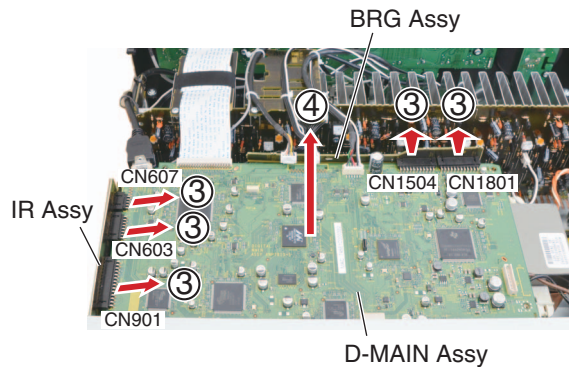
• Rear view

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

• HDMI cable styling

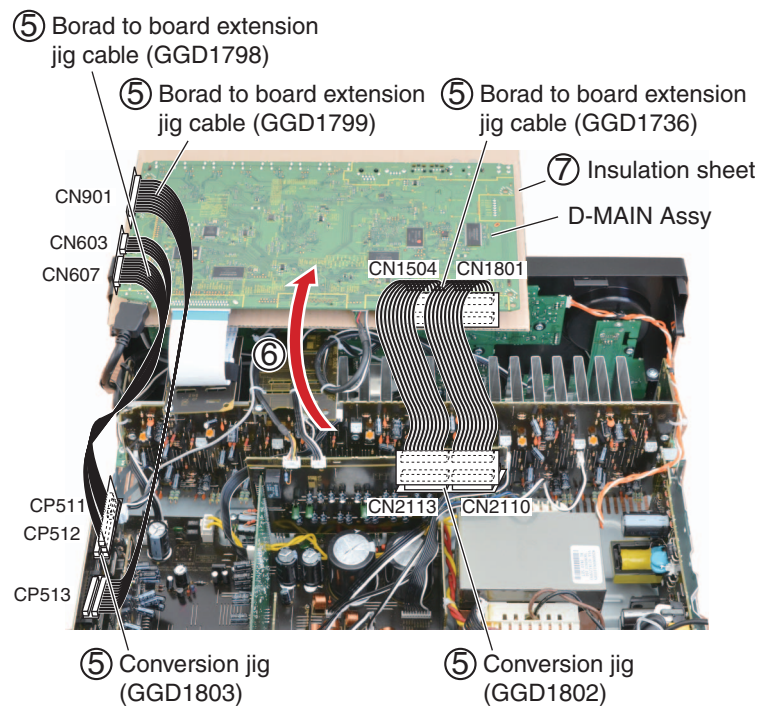


Note:
Make styling so that tension does not hang to the HDMI connector.



- (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.

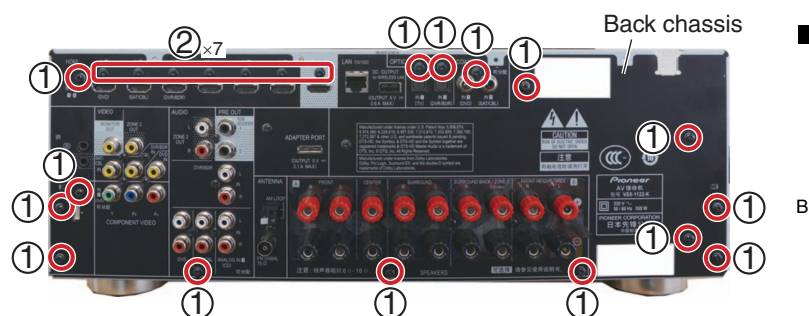


[4] MAIN Assy

Remove the cabinet by removing the 10 screws.

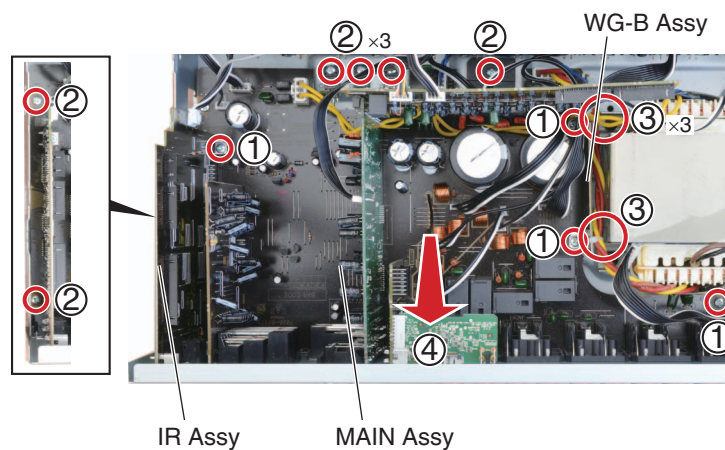
[4-1] Back chassis, D-MAIN Assy

- (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.



■1■2■3■4■

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

C

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

D

AMP7 Assy	➡	"8.4 IDLE CURRENT ADJUSTMENT" (Only channel of replacement parts)
Other assemblies	➡	No adjustment required

E

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)

A 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.
- 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.)

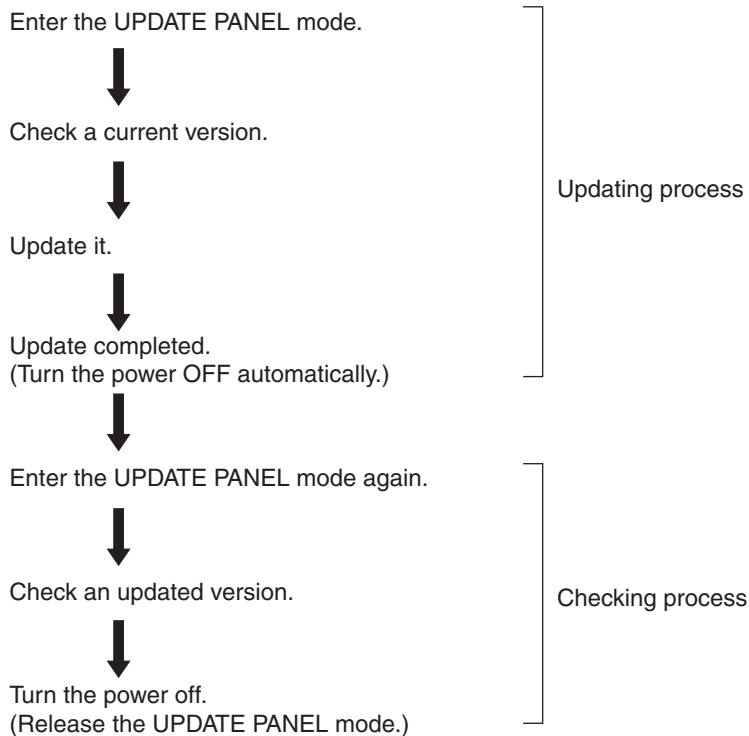
Procedures for turning OFF the HDMI control setting
 ⇒ HOME MENU ⇒ 4.System Setup ⇒ e.HDMI Setup ⇒ Control OFF

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)

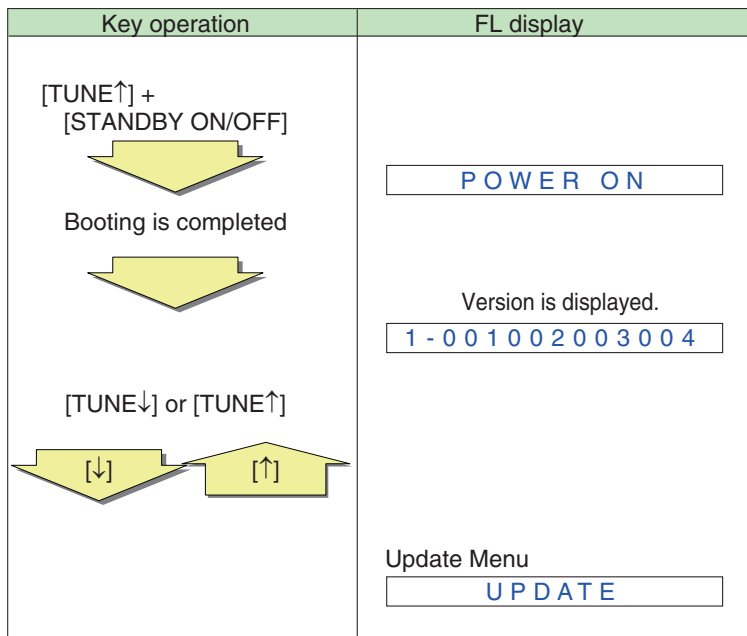
[Preparations]

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]

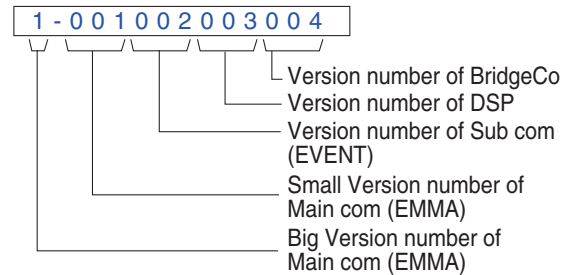
1. While holding down "TUNE↑" key on the front panel, press "STANDBY ON/OFF" key and moves to the **UPDATE PANEL mode**.
2. The updating process is as follows.

A



Front Panel Key

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

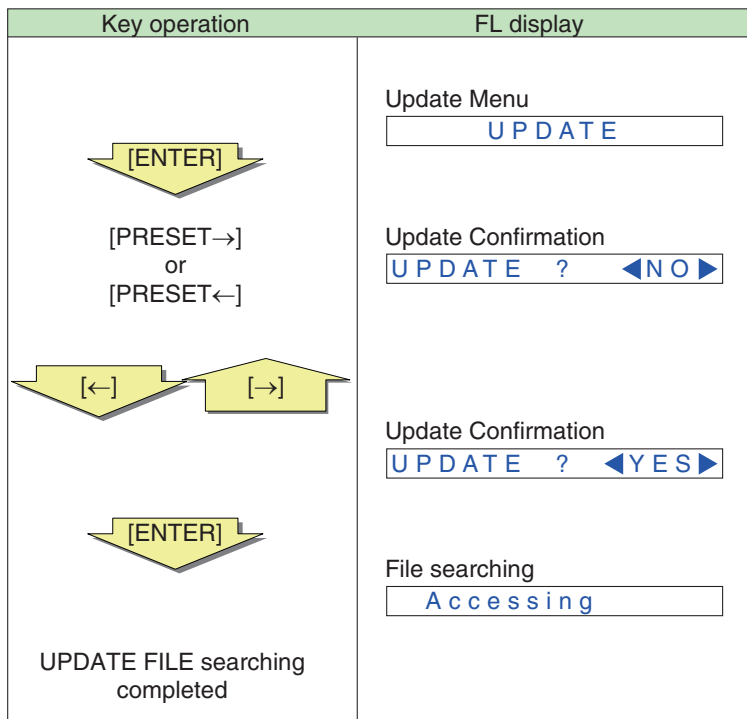


B

C

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 ***.

D



E

F

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

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.

4



(The following circuit diagram is for SL channel, but another channel also has same circuit diagram and same adjustment is required)

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VSX-1127-K

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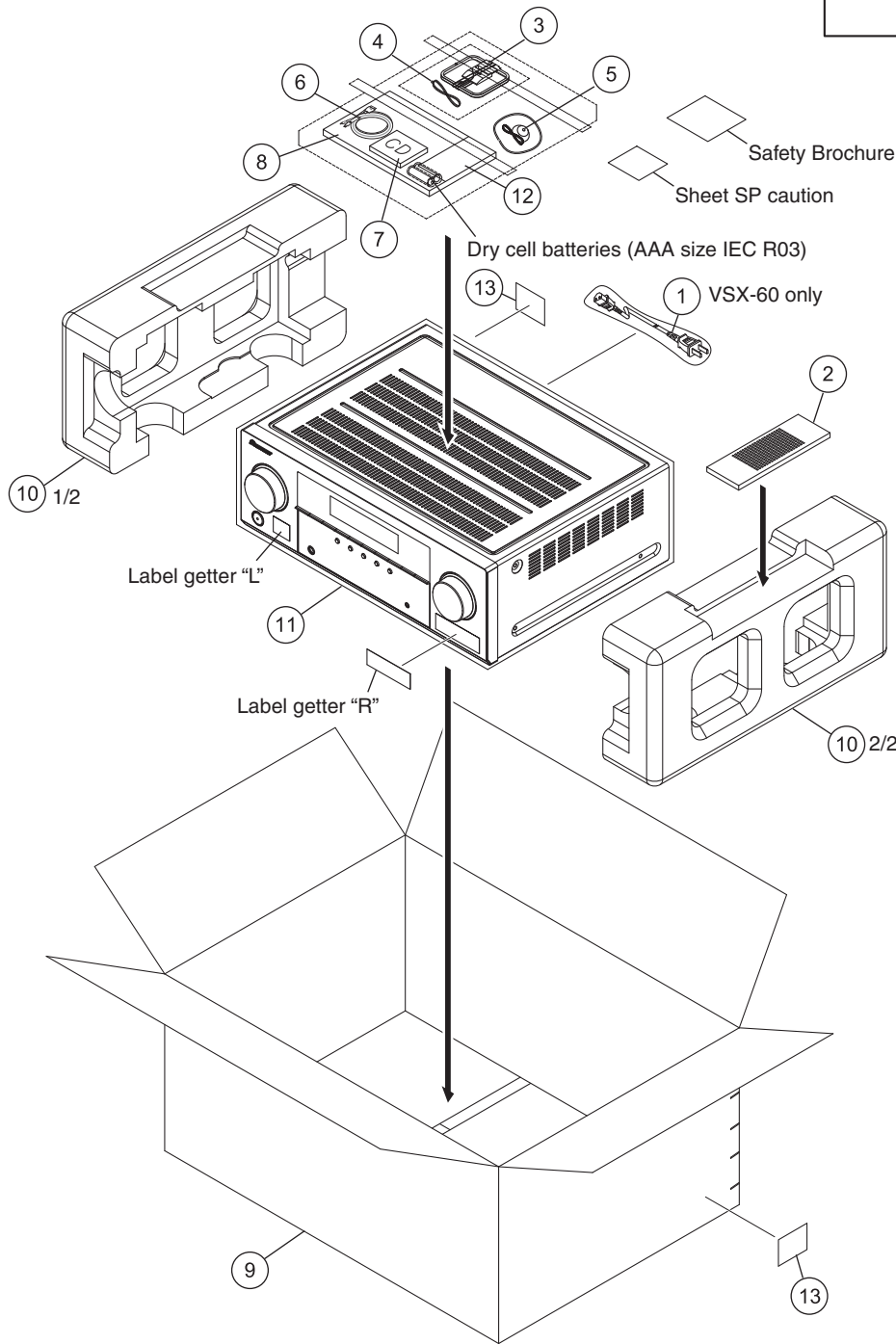
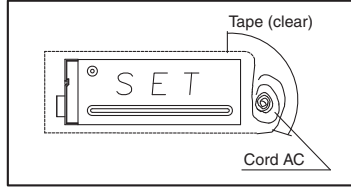
4

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

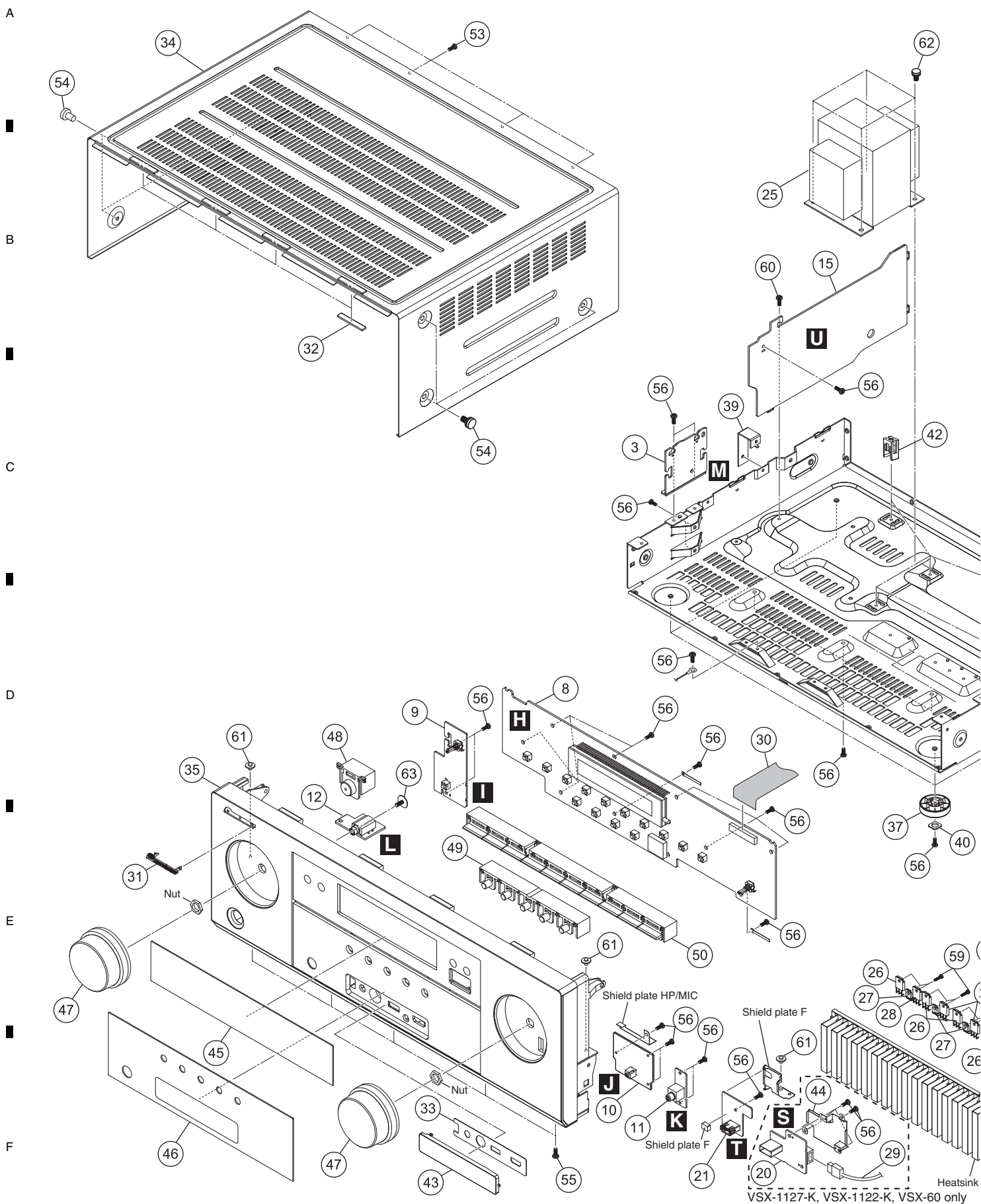
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
⚠ 1	Power Cord	See Contrast table (2)
2	Remote Control	8300766400010-IL
3	AM Loop Antenna	E601019000010-IL
4	FM Wire Antenna	E605010140010-IL
5	Microphone (for Auto MCACC setup)	APM7010
6	iPod Cable	L308102013030-IL
7	Operating Instructions (CD-ROM)	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	57070000006590-IL	57070000006580-IL	57070000006600-IL	57070000006590-IL
	9	Box, Gift	6007211820110-IL	6007211820100-IL	6007211820120-IL	6007211820150-IL
NSP	12	Warranty Sheet	ARY7156	ARY7156	ARY7007	ARY7156

9.2 EXTERIOR SECTION





(1) EXTERIOR SECION SECTION PARTS LIST

	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
A	1	MAIN Assy	See Contrast table (2)	46	Window Lower	See Contrast table (2)
	2	VIDEO Assy	See Contrast table (2)	47	Knob	5080212431000-IL
	3	G-L Assy	7028071713040-IL	48	Button	See Contrast table (2)
	4	G-R Assy	7028071714040-IL	49	5 Key Button	5090214561000-IL
	5	WG-A Assy	7028071715040-IL	50	10 Key Button	5090214571000-IL
B	6	WG-B Assy	7028071716040-IL	51	CN, Wire	See Contrast table (2)
	7	D-MAIN Assy	See Contrast table (2)	52	•••••	
	8	FRONT Assy	See Contrast table (2)	53	Screw	BBT30P100FTB
	9	POWER Assy	See Contrast table (2)	54	Screw	BBT40P080FTB
	10	MIC Assy	7028071723040-IL	55	Screw	BBZ30P080FTB
	11	FVIDEO Assy	7028071724040-IL	56	Screw	BBZ30P080FTC
	12	HP Assy	7028071725040-IL	57	Screw	BBZ30P180FTC
	13	AUDIO Assy	See Contrast table (2)	58	Screw	BSZ30P040FTB
	14	IR Assy	See Contrast table (2)	59	Screw Tapping Assy	B018230141H11-IL
	15	SMPS Assy	See Contrast table (2)	60	Screw, Tap Tite	B020230063B10-IL
C	16	BRG Assy	See Contrast table (2)	61	Screw, Tap Tite	1500001206010-IL
	17	BTCNT Assy	7028071774040-IL	62	Screw	B028940101B11-IL
	18	CCG Assy	7028071775040-IL	63	Screw	1500001456010-IL
	19	AMP7 Assy	7028071731040-IL	64	Screw	See Contrast table (2)
	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			
D	⚠	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			
E	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)			
F	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)			

(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 Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
-  : The power supply is shown with the marked box.



A

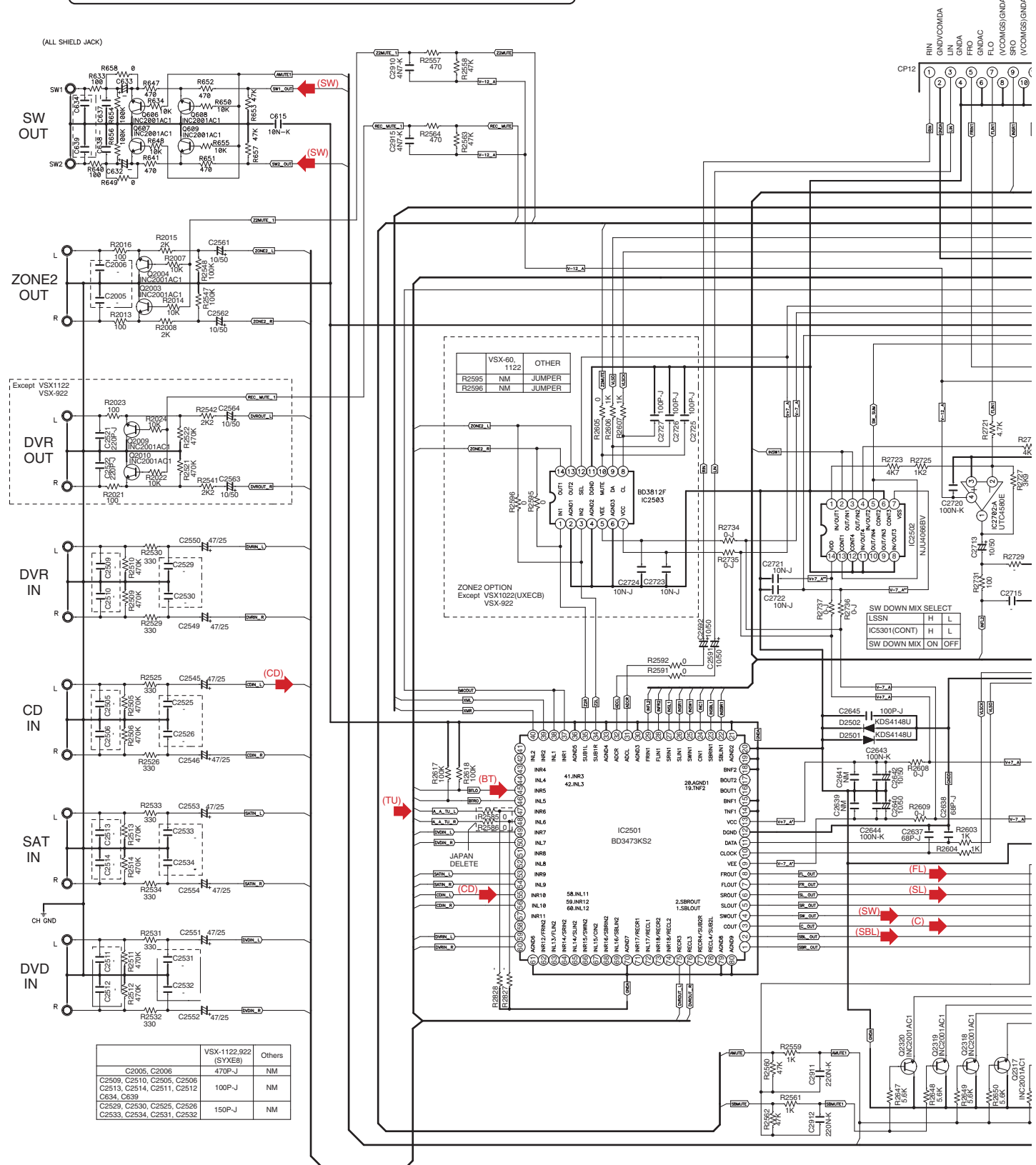
B

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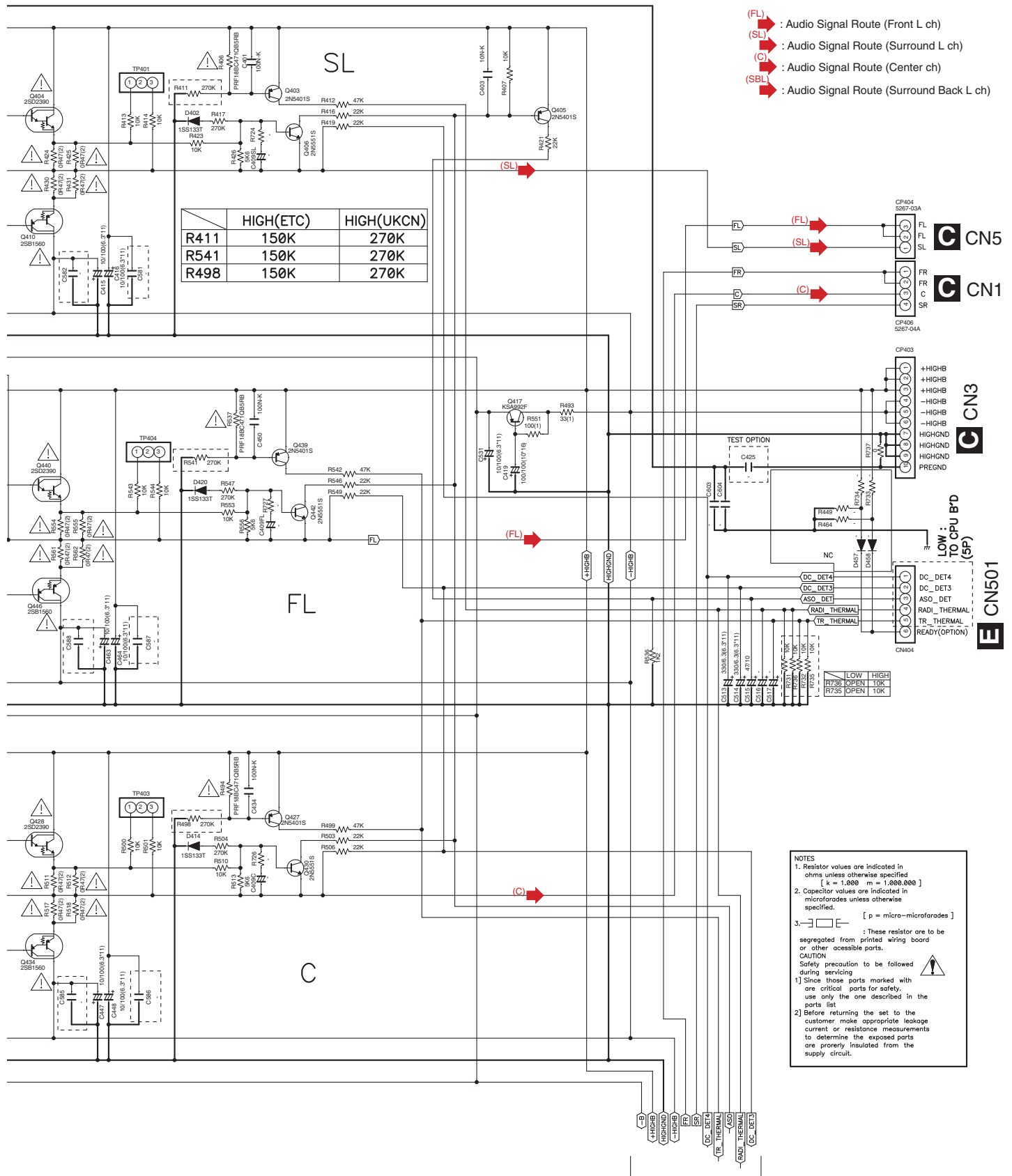
63

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F



B 1/2 AMP7 ASSY (7028071731040-IL)



10.3 AMP7 ASSY (2/2)

A

B

C

D

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F

B 1/2

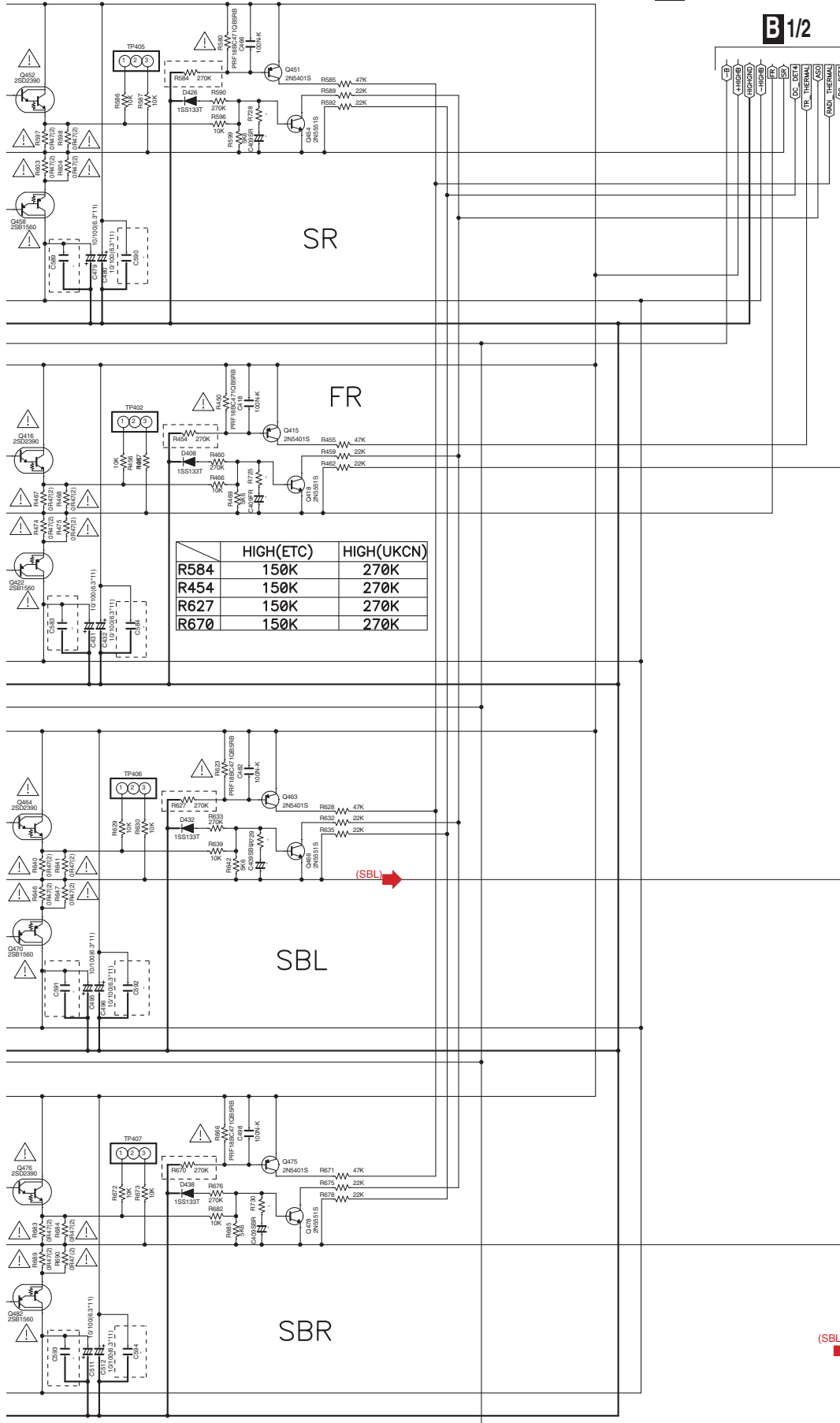
(SBL)

(SBL)

B 2/2

VSX-1127-K

B2/2 AMP7 ASSY (7028071731040-IL)



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

10.4 MAIN ASSY

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FROM MAIN TRANS

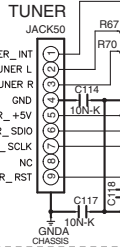
C

68

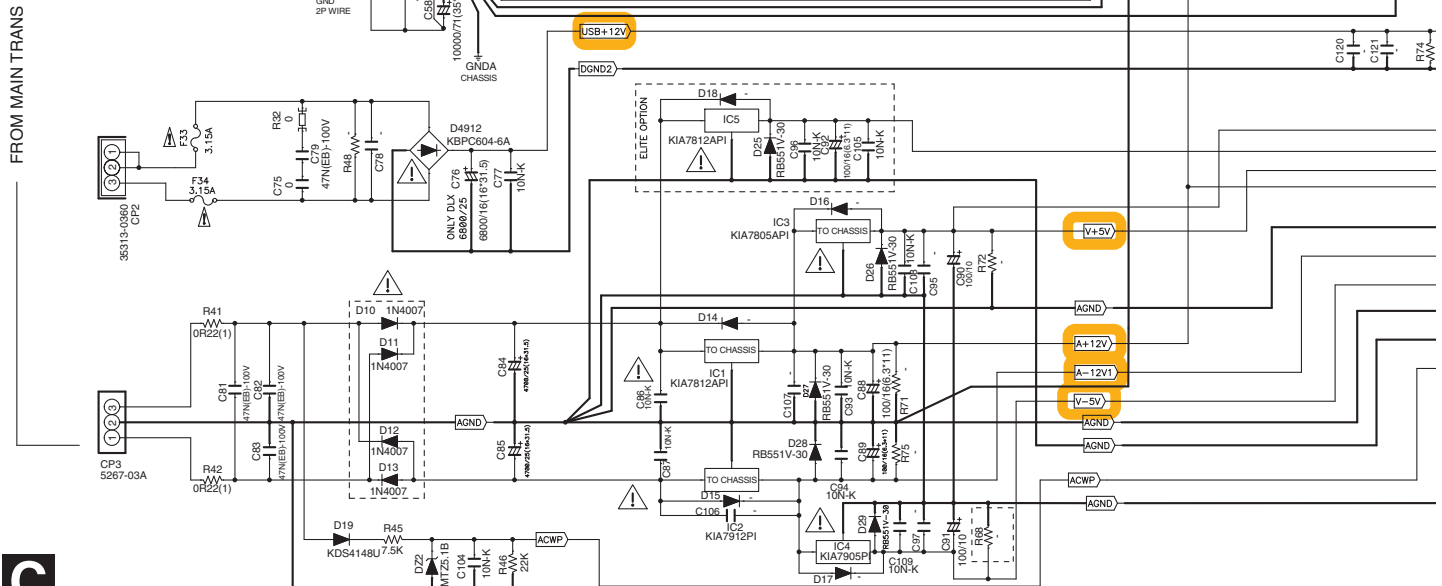
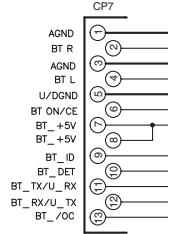
SPEAKER TERMINAL

NOTES
1. Resistor values are indicated in ohms unless otherwise specified. [k = 1,000 m = 1,000,000]
2. Capacitor values are indicated in microfarads unless otherwise specified. [p = micro-microfarads]
3.  : These resistor are to be segregated from printed wiring board or other accessible parts.
CAUTION
Safety precaution to be followed during servicing
1) Since those parts marked with one 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 properly insulated from the supply circuit.

J-MODEL OPTION



R CP601



VSX-1127-K

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D 1/10





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/J

	AKW1003	AKW0907	AKW1003	AKW1008
C101	1300/4	AKW1352-1	AKW1352-1	AKW1352-1
C104	1300/4	AKW1352-1	AKW1352-1	AKW1352-1
C105	1300/50	BN	BN	BN
C107	1300/4	AKW1352-1	AKW1352-1	AKW1352-1
C108	1300/50	AKW1352-1	1300/50/50	1300/50/50
C110	1300/4	AKW1352-1	AKW1352-1	AKW1352-1
C116	1300/4	AKW1352-1	AKW1352-1	AKW1352-1
C119	1300/50	1300/50/50	1300/50/50	1300/50/50
C120	0.31x/25	0.31x/25	0.31x/25	0.31x/25
C121	0.31x/25	AKW1352-1	AKW1352-1	AKW1352-1
C122	4700/50	1300/50/50	1300/50/50	1300/50/50
C123	0.31x/16	0.84x/16	0.84x/16	0.84x/16
C124	0.31x/25	4700/50	4700/50	4700/50
C125	1300/50	1300/50/50	1300/50/50	1300/50/50
C127	0.31x/16	0.31x/25	0.31x/25	0.31x/25
C129	4700/50	AKW1352-1	1300/50/50	1300/50/50
C144	1300/50	1300/50/50	1300/50/50	1300/50/50
C145	1300/50	1300/50/50	1300/50/50	1300/50/50
C146	1300/50	1300/50/50	1300/50/50	1300/50/50
C149	1300/50	1300/50/50	1300/50/50	1300/50/50
C173	1300/50	1300/50/50	1300/50/50	1300/50/50
C175	0.31x/16	0.31x/25	0.31x/25	0.31x/25
C176	1300/50	1300/50/50	1300/50/50	1300/50/50
C184	76/50	76/50	76/50	76/50
C187	76/50	76/50	76/50	76/50
C204	4700/50	1300/50/50	1300/50/50	1300/50/50
C207	1300/50	1300/50/50	1300/50/50	1300/50/50
C208	BN	1300/50/50	1300/50/50	1300/50/50
C209	1300/50	1300/50/50	1300/50/50	1300/50/50
C215	BN	4700/50/50	4700/50/50	4700/50/50
C211	BN	4700/50/50	4700/50/50	4700/50/50
C212	1300/50	1300/50/50	1300/50/50	1300/50/50
C213	BN	4700/50/50	4700/50/50	4700/50/50
C214	1300/50	1300/50/50	1300/50/50	1300/50/50
C215	1300/50	1300/50/50	1300/50/50	1300/50/50
C216	BN	1300/50/50	1300/50/50	1300/50/50
C219	BN	1300/50/50	1300/50/50	1300/50/50
C221	BN	1300/50/50	1300/50/50	1300/50/50
C220	BN	1300/50/50	1300/50/50	1300/50/50
C221	BN	4700/50/50	4700/50/50	4700/50/50
C222	650	1300	1300	1300
C223	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C224	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C225	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C226	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C227	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C228	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C229	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C230	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C231	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C232	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C233	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C234	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C235	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C236	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C237	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C238	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C239	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C240	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C241	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
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C243	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
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C254	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
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C257	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
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C259	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C260	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
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C262	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C263	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C264	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C265	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C266	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C267	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C268	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C269	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C270	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C271	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C272	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C273	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C274	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C275	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C276	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C277	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C278	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
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C282	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C283	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C284	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C285	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C286	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
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C293	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C294	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
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C299	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C300	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C301	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C302	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C303	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
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C308	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
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C373	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C374	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C375	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
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C381	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
C382	AKW1003-A	AKW1003-A	AKW1003-A	AKW1003-A
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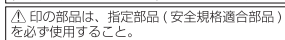
D 2/10,7/10,8/10

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

D 3/10-10/10

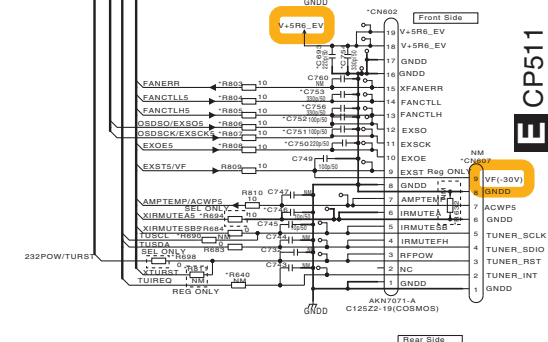
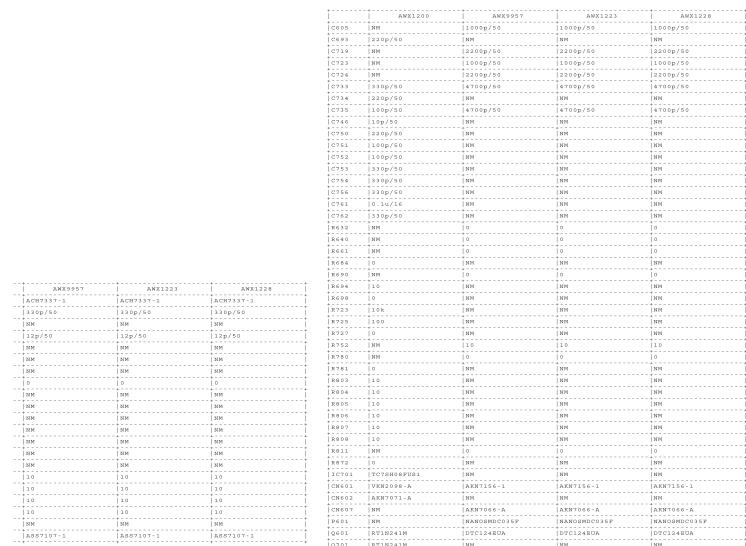
D

F



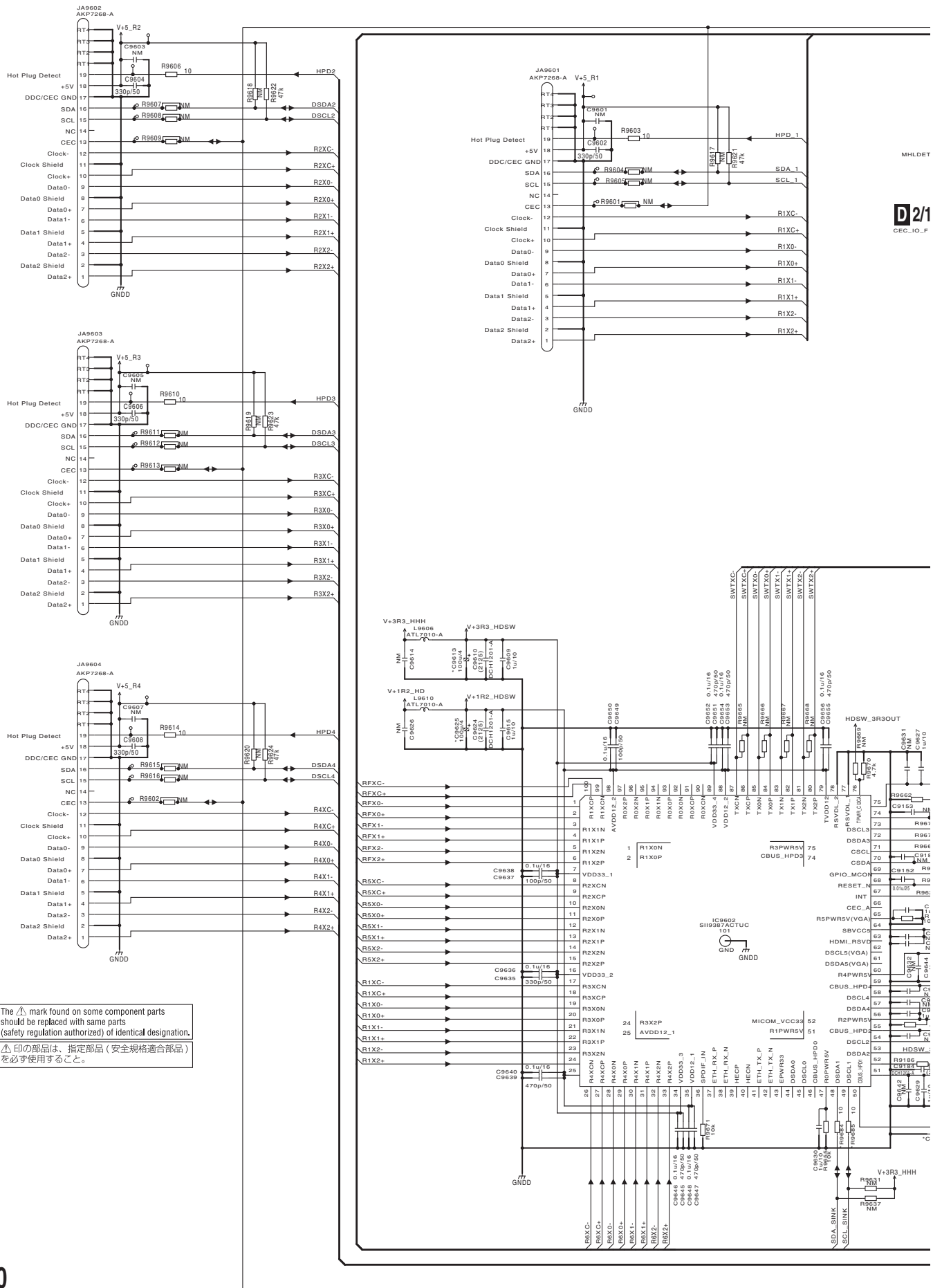
D 2/10

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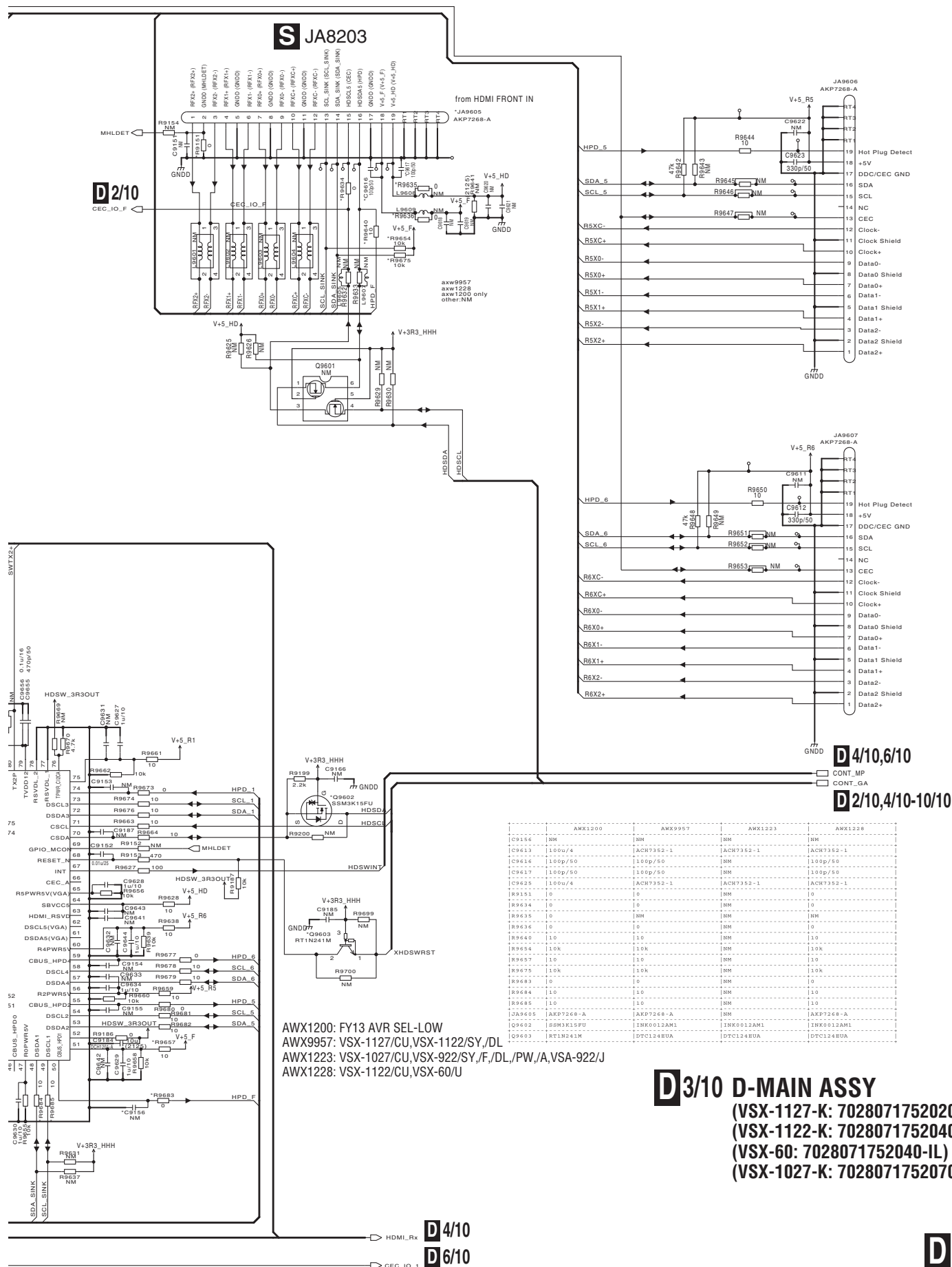
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AWX1200: FY13 AVR SEL-LOW
AWX9957: VSX-1127/CU,VSX-1122/SY,/DL
AWX1223: VSX-1027/CU,VSX-922/SY,/F,/DL,/PW,/A,VSA-922/J
AWX1228: VSX-1122/CU,VSX-60/U

10.7 D-MAIN ASSY (3/10)



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



A

B

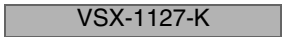
C

D

E

F

D 4/10



77

10.9 D-MAIN ASSY (5/10)

D4/10

D2/10-4/10,6/10-10/10

CONT_GA

V+3R3_HHH

V+3R3_MV

V+3R3

V+1R8_MV_PL

V+1R8_SC

V+1R8

V+1R8

V+1R8

V+1R8

V+1R8

V+1R8

V+1R8

V+1R8

V+1R8

V+1R8

V+1R8

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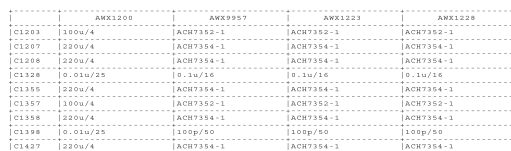
V+1R8

V+1R8

V+1R8

D5/10

D5/10 D-MAIN ASSY
 (VSX-1127-K: 7028071752020-IL)
 (VSX-1122-K: 7028071752040-IL)
 (VSX-60: 7028071752040-IL)
 (VSX-1027-K: 7028071752070-IL)



⚠ 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)

A

B

C

D

E

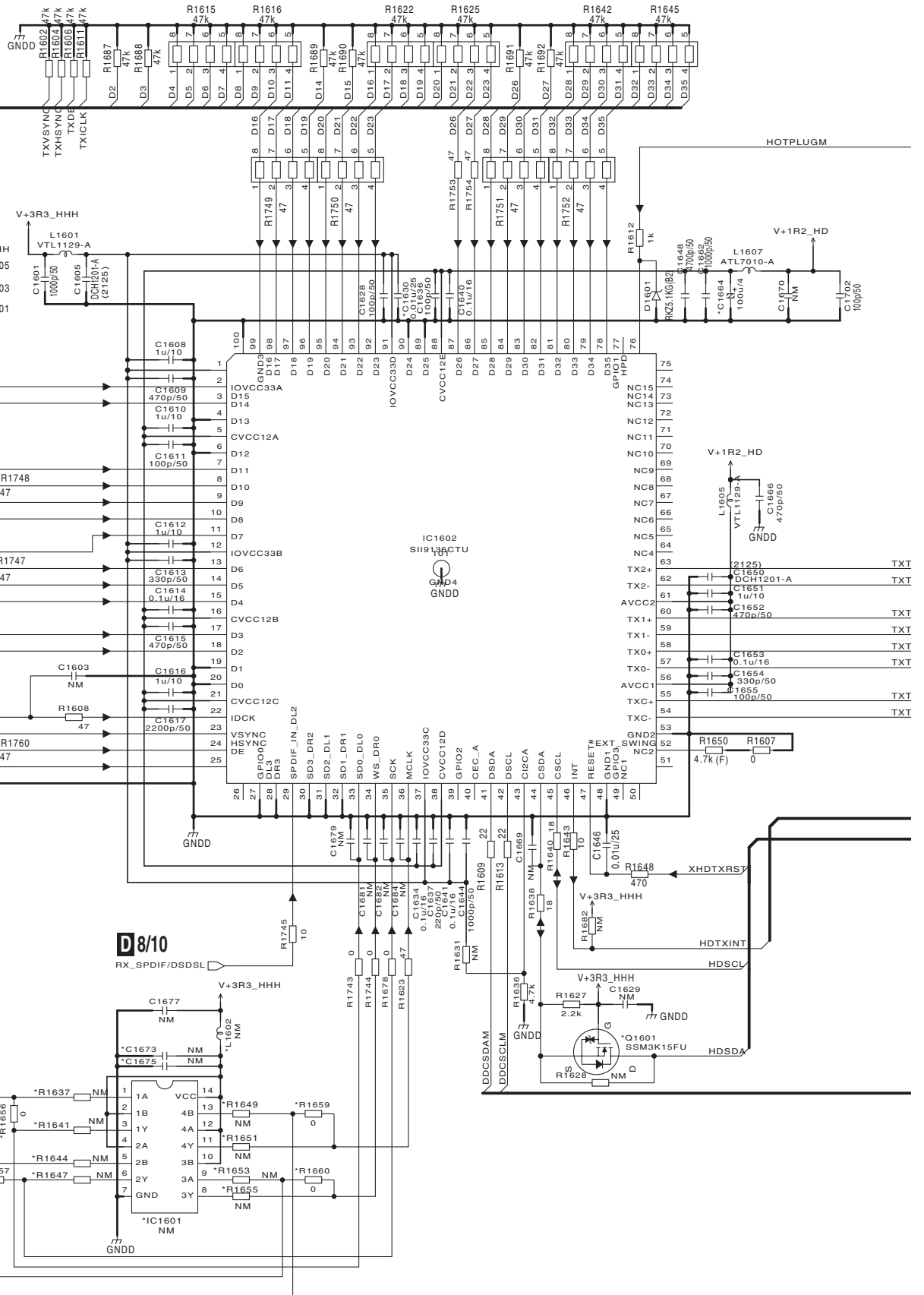
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D5/10
DV_TX

D4/10,7/10,8/10
DSP

D7/10 TXMCLKI

D6/10





D 7/10

4



A

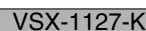
B

C

D

E

F



⚠ 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 8/10

△

F





4

A



C

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F

E

VSX-1127-K



10.16 VIDEO ASSY

A

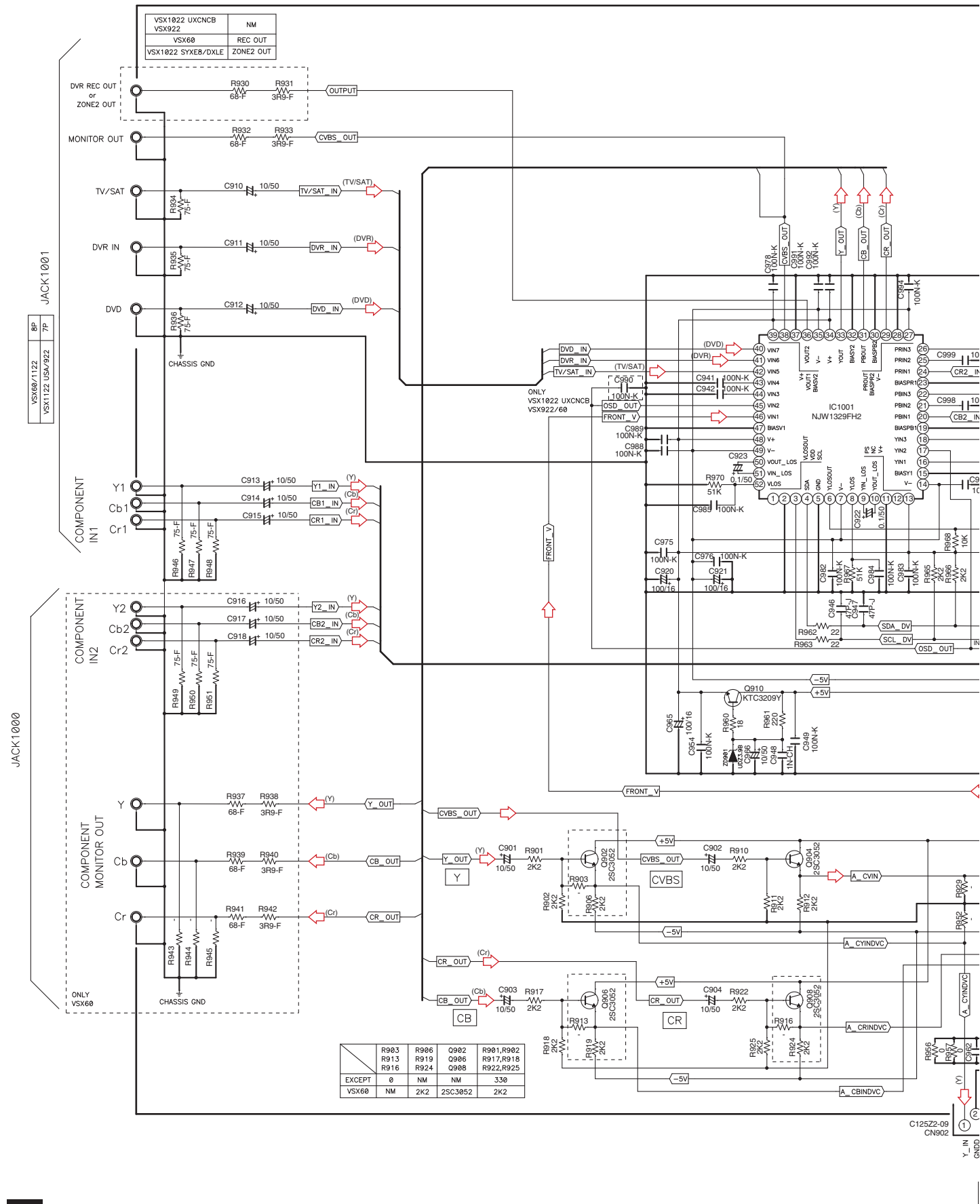
B

C

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F



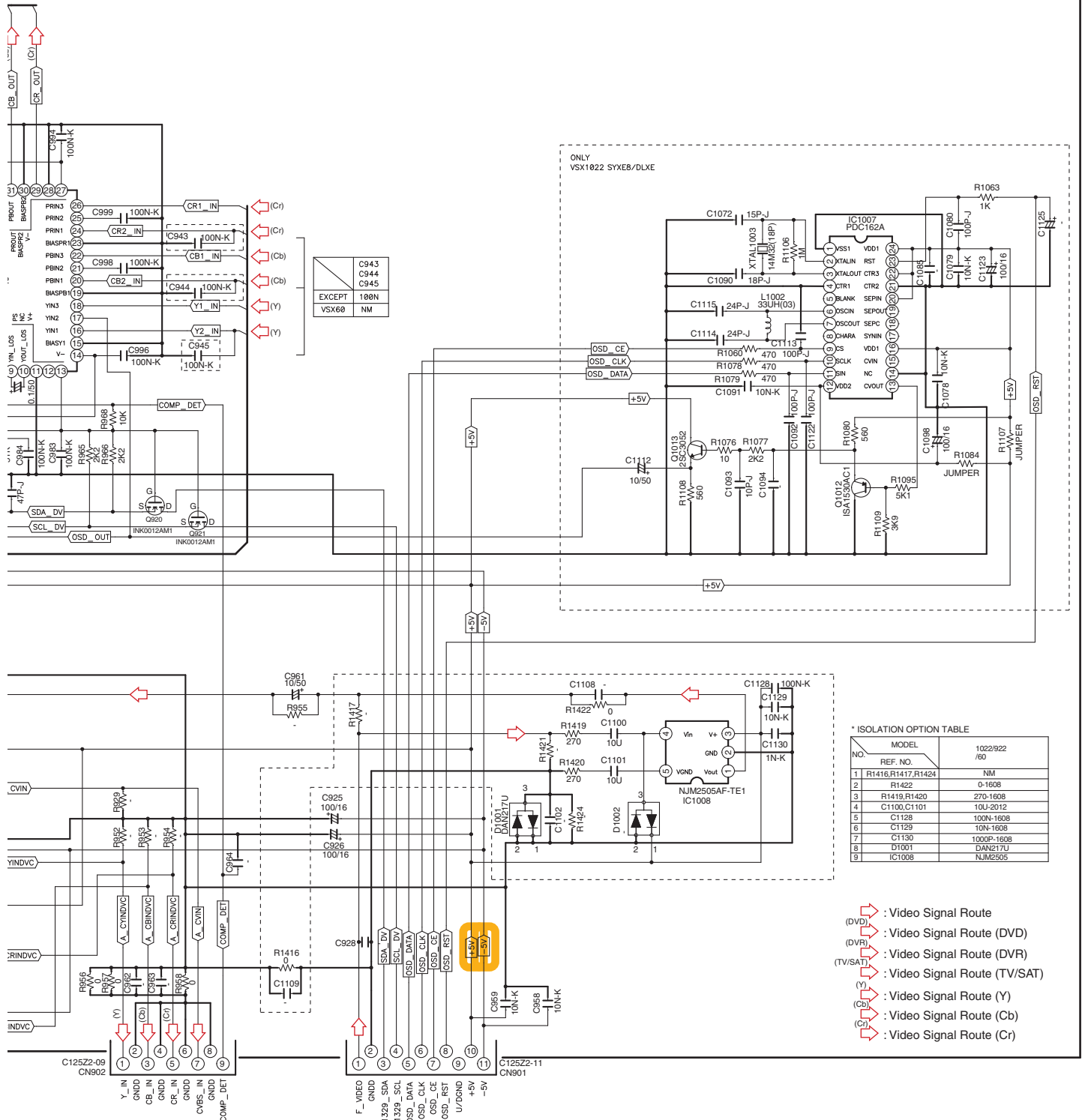
F VIDEO ASSY

(VSX-1127-K: 7028071712020-IL)

(VSX-1122-K: 7028071712070-IL)

(VSX-60: 7028071712040-IL)

(VSX-1027-K: 7028071712070-IL)



C CP8

C CP9

VSX-1127-K

F

10.17 BRG ASSY

A

D7/10 CN1801

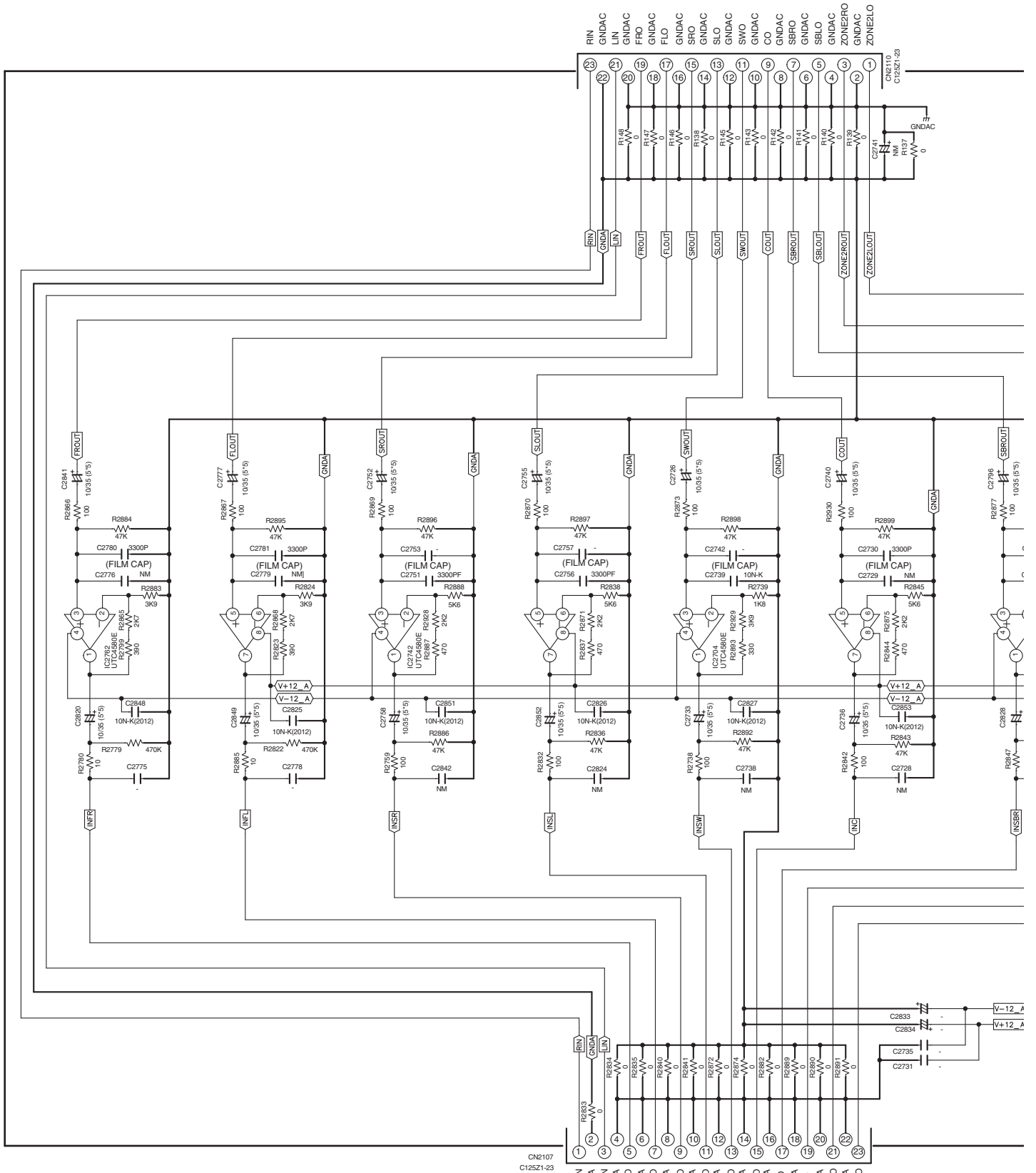
B

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F



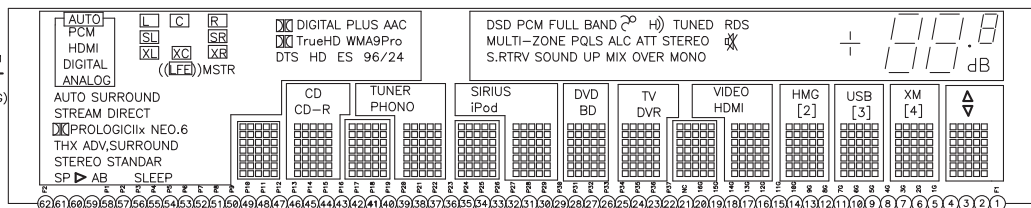
A CP12



10.18 FRONT and POWER ASSYS

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

FLT3001
HNA-16MM62T
HNA-16MM62T(SAMSUNG)



A

B

C

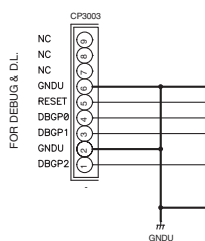
D

E

F

FROM MAIN TRANS

MODEL	AREA	R3001	R3002	R3003	R3004	R3005	R3006	R3007	R3008
1007	NA/CUE	0.47(1)	0.47(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)
802	CH/AXES	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)
802	GEN/HOLDS	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)
802	GEN/PIPS	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)
802	AUS/PIPS	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)
802	ELUSY/YES	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)
1122	NA/CUE/EM	0.47(1)	0.47(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)
1122	CH/AXES	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)
1122	GEN/HOLDS	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)
1122	ELUSY/YES	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)
1127	NA/CUE	0.47(1)	0.47(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)
ELT100	NA/CUE/EM	0.47(1)	0.47(1)	1(1)	1(1)	1(1)	1(1)	1(1)	1(1)



MODEL	AREA	R3102	R3103	R3104	R3105	R3106	R3107	R3108
1007	NA/CUE	47K	10K	22K	33K	47K	10K	10K
802	CH/AXES	47K	10K	47K	10K	22K	33K	47K
802	GEN/HOLDS	47K	10K	47K	10K	22K	33K	47K
802	GEN/PIPS	47K	10K	47K	10K	22K	33K	47K
802	AUS/PIPS	47K	10K	47K	10K	22K	33K	47K
802	ELUSY/YES	47K	10K	47K	10K	22K	33K	47K
1122	NA/CUE/EM	47K	10K	47K	10K	22K	33K	47K
1122	CH/AXES	47K	10K	47K	10K	22K	33K	47K
1122	GEN/HOLDS	47K	10K	47K	10K	22K	33K	47K
1122	ELUSY/YES	47K	10K	47K	10K	22K	33K	47K
1127	NA/CUE	47K	10K	47K	10K	22K	33K	47K
ELT100	NA/CUE/EM	47K	10K	47K	10K	22K	33K	47K

VSX-1127-K



A



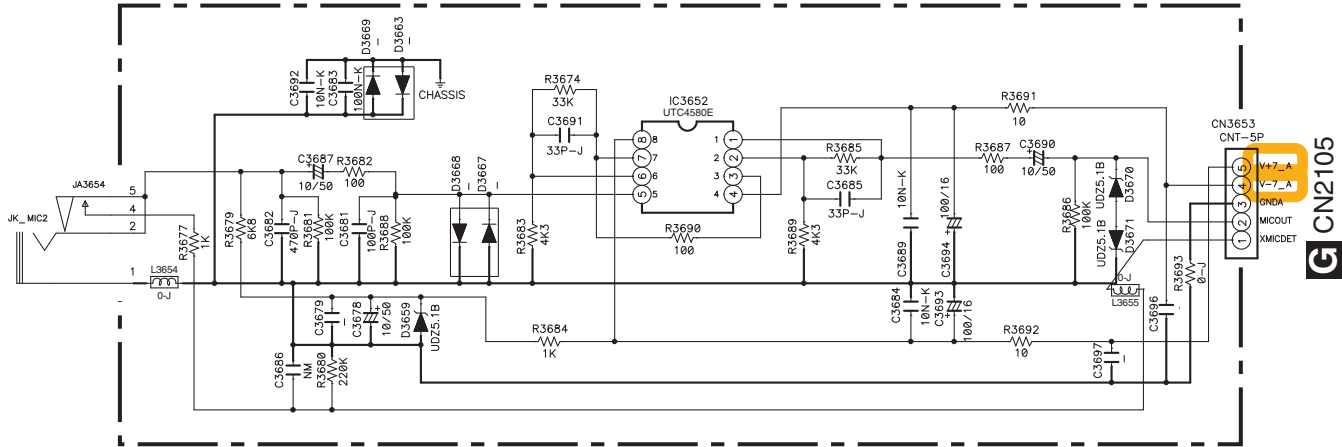
□



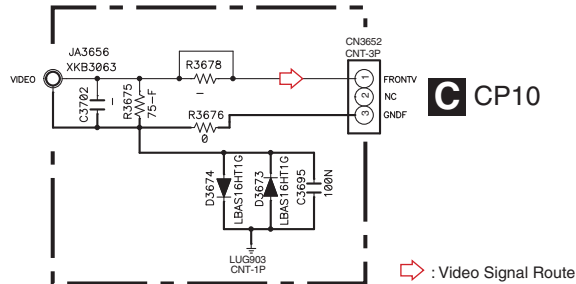
97

10.19 MIC, FVIDEO and HP ASSYS

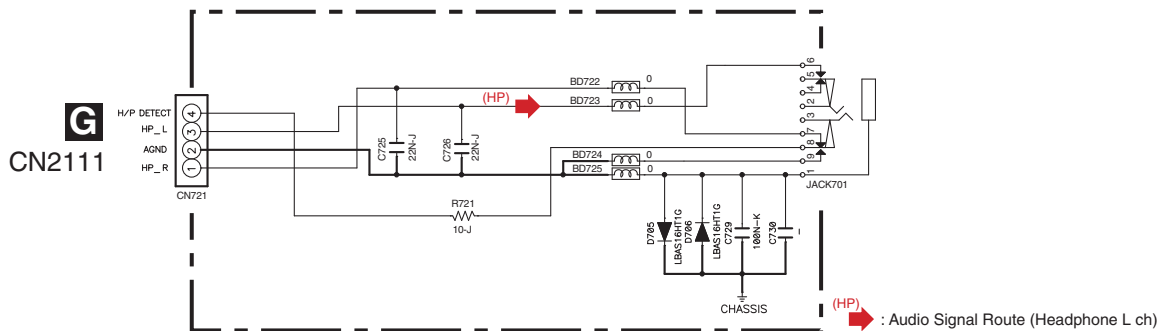
J MIC ASSY (7028071723040-IL)



K FVIDEO ASSY (7028071724040-IL)



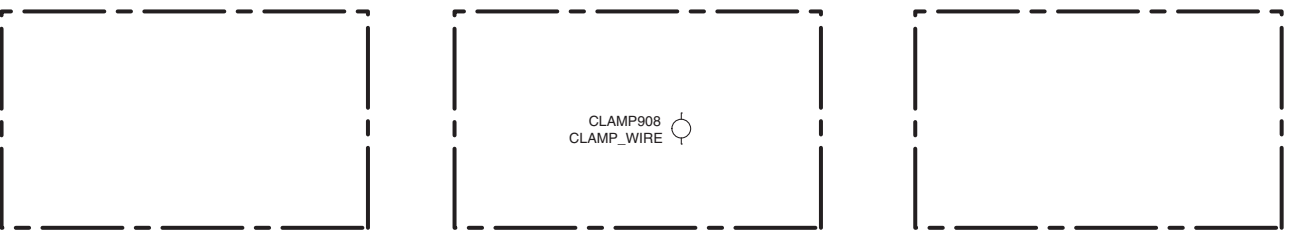
L HP ASSY (7028071725040-IL)



M G-L ASSY
(7028071713040-IL)

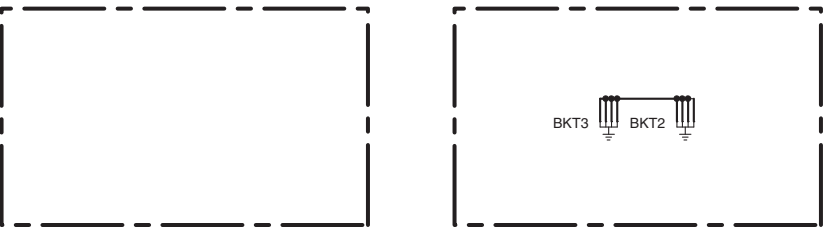
O WG-A ASSY
(7028071715040-IL)

Q CCG ASSY
(7028071775040-IL)

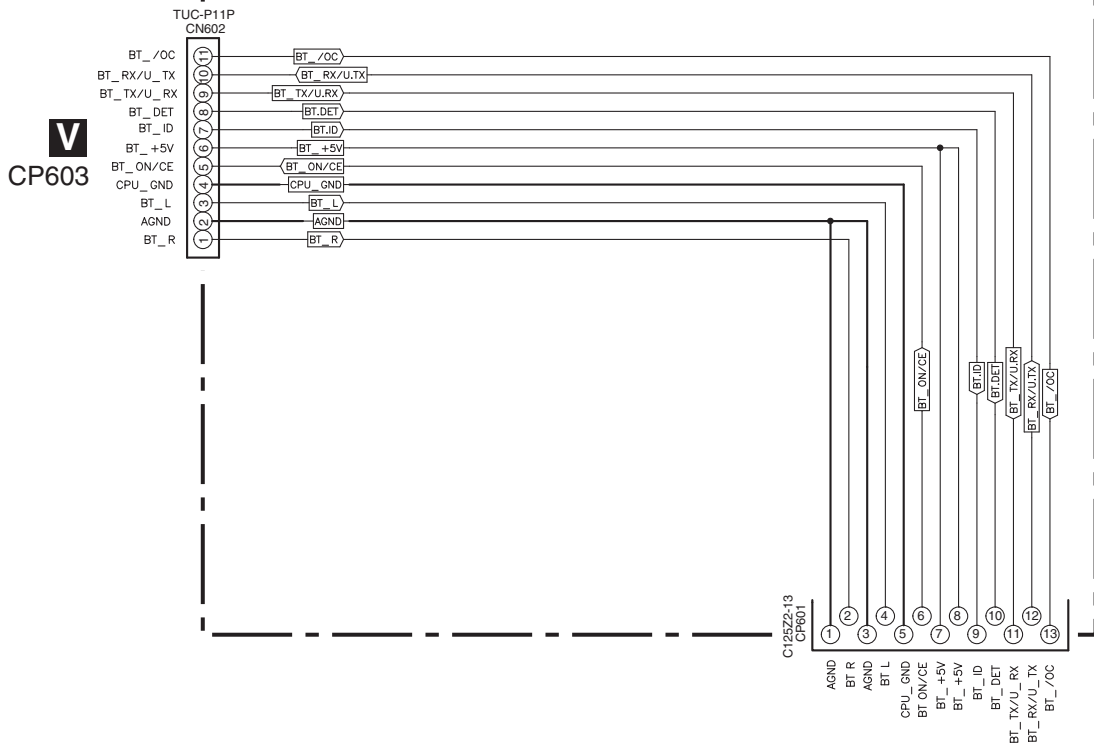


N G-R ASSY
(7028071714040-IL)

P WG-B ASSY
(7028071716040-IL)



R BT CNT ASSY (7028071774040-IL)



M

N

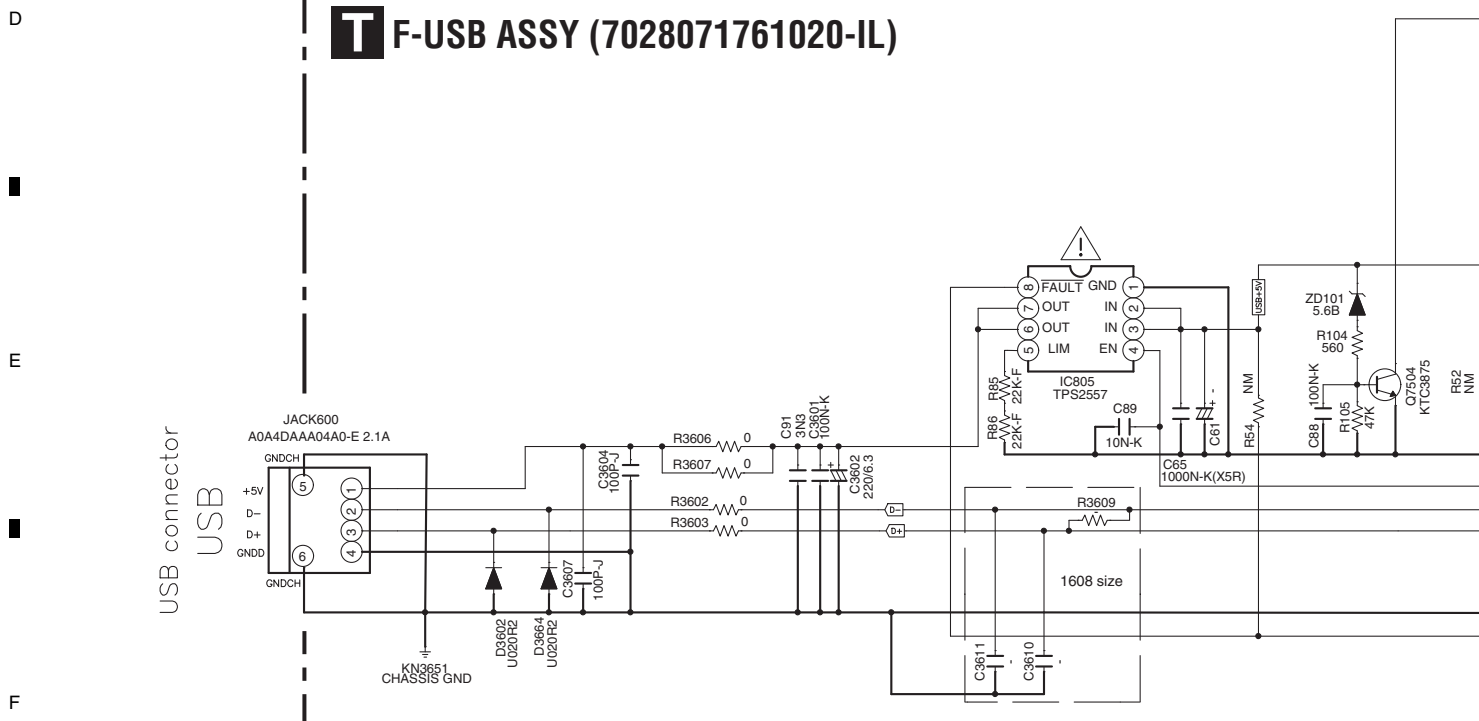
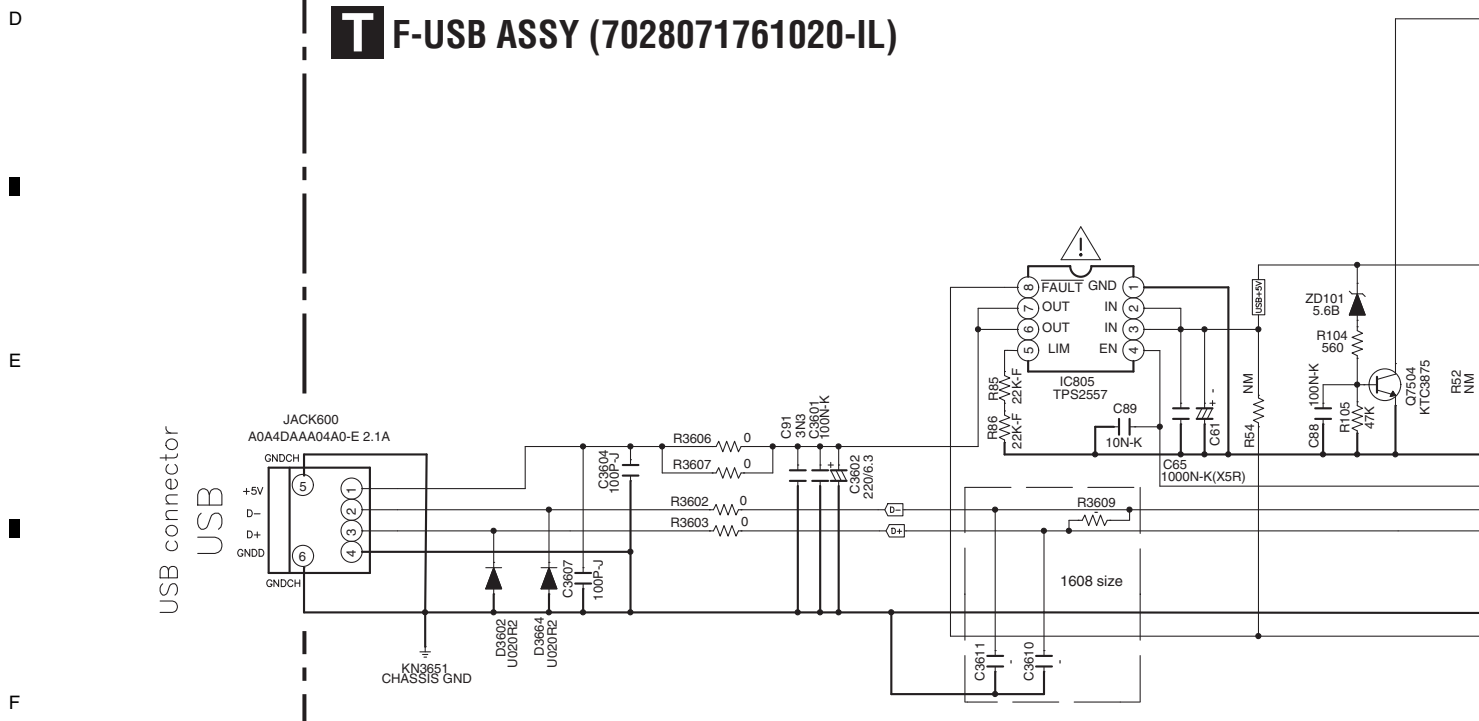
O

P

Q

R

S T
100





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A



C

□

F

F

NOTES

1. Resistor values are indicated in ohms unless otherwise specified
[$k = 1.000 \quad m = 1.000.000$]
2. Capacitor values are indicated in microfarades unless otherwise specified.
[$\mu = \text{micro-microfarades}$]

3.  : These resistor are to be segregated from printed wiring board or other accessible parts.

CAUTION

Safety precaution to be followed during servicing

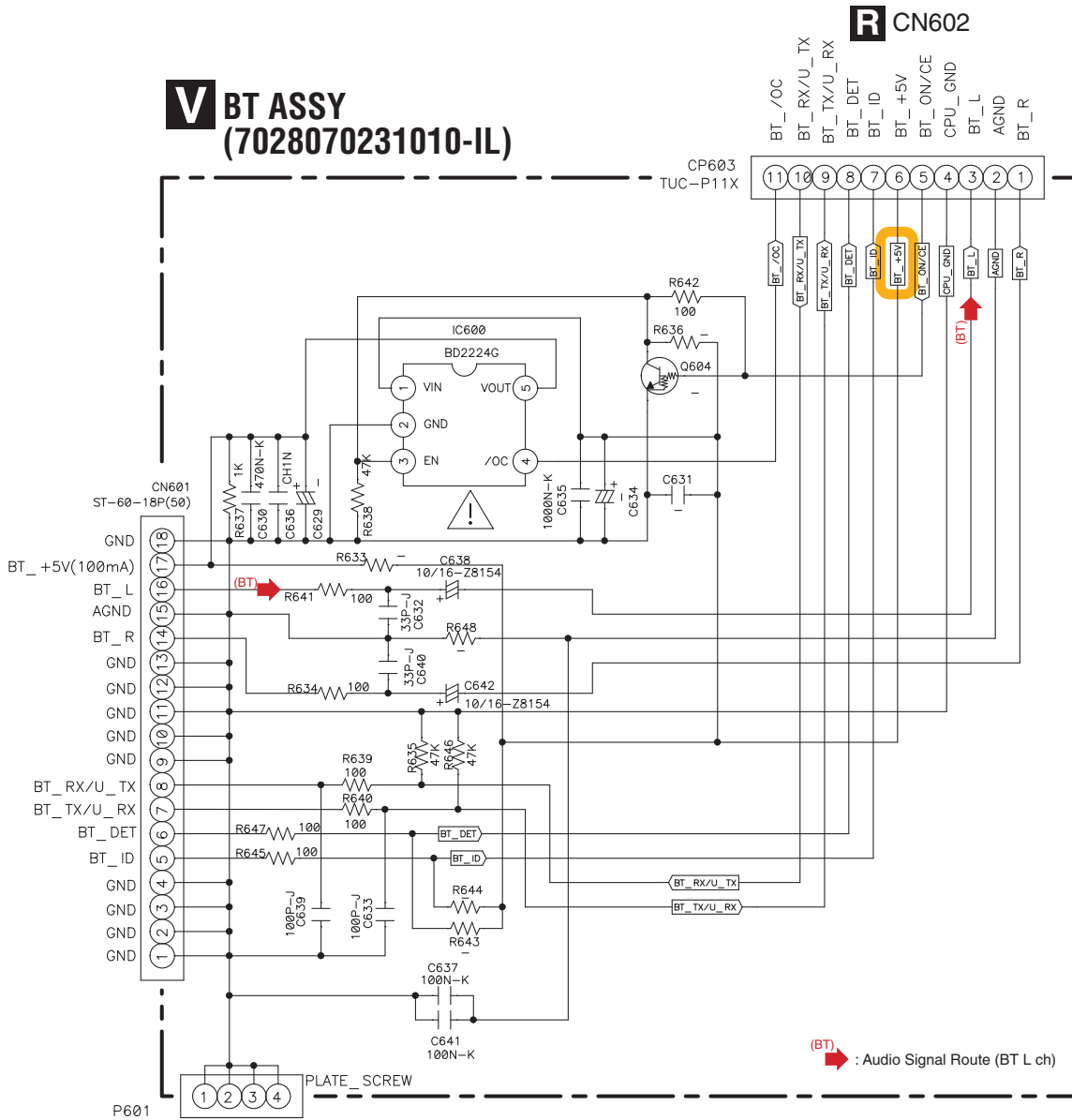


- 1] Since those parts marked with are critical parts for safety, use only the one described in the parts list
- 2] Before returning the set to the customer make appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.

103

10.23 BT ASSY

V BT ASSY
(7028070231010-IL)



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B

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E

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F

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5

■

6

■

7

■

8

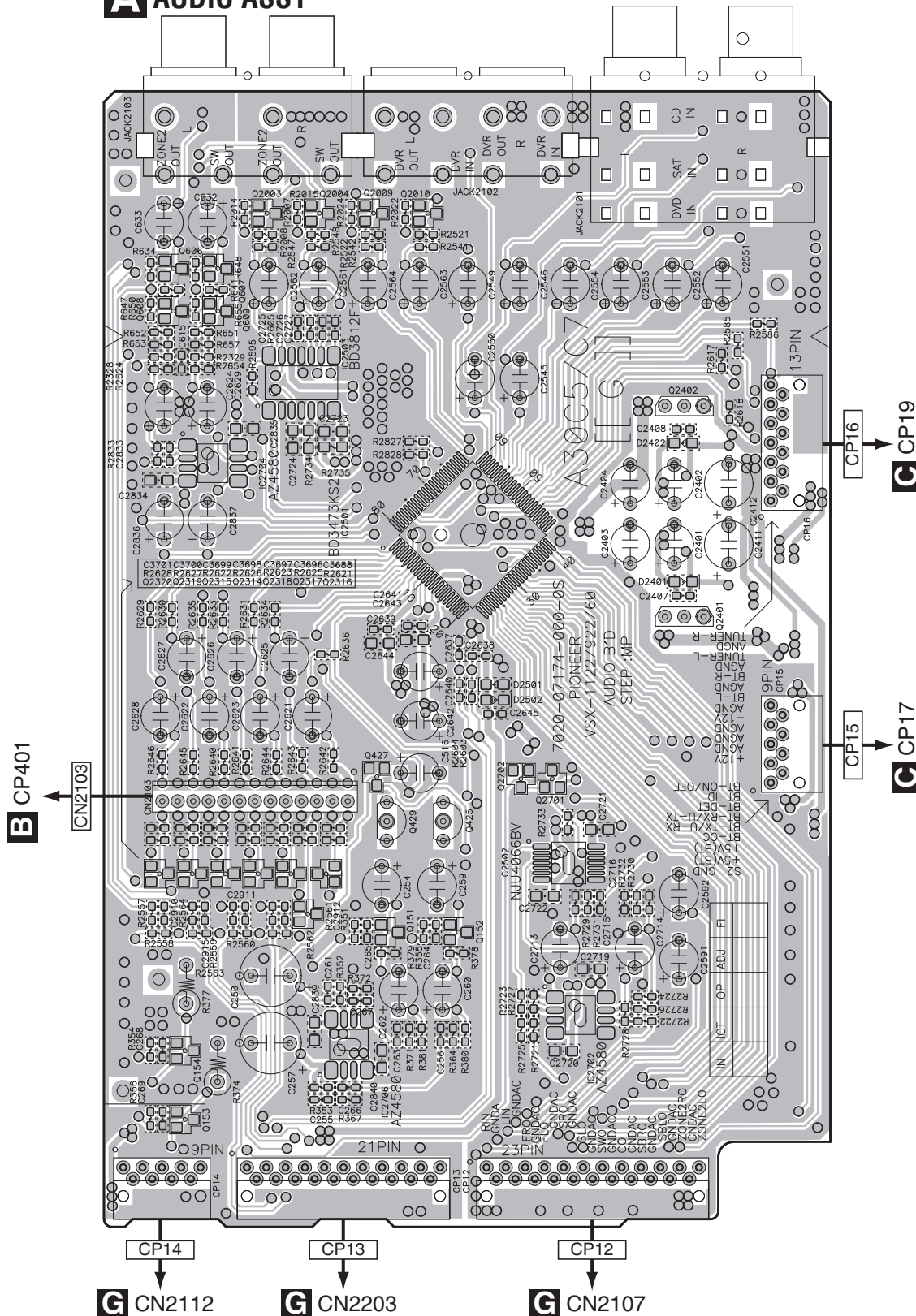
■

VSX-1127-K

11.1 AUDIO ASSY

SIDE A

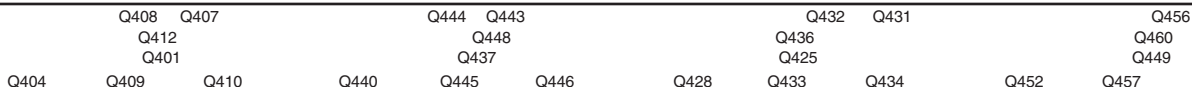
A diagram of a printed circuit board (PCB) with various components and labels. The components include a 'Connector' on the left, a 'Capacitor' in the center, and a 'Chip Part' on the right. The board is divided into two horizontal sections labeled 'SIDE A' (top) and 'SIDE B' (bottom). The entire assembly is labeled 'PC Board'.



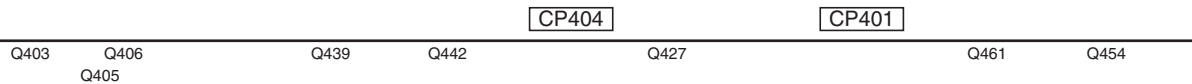
4

CN2103

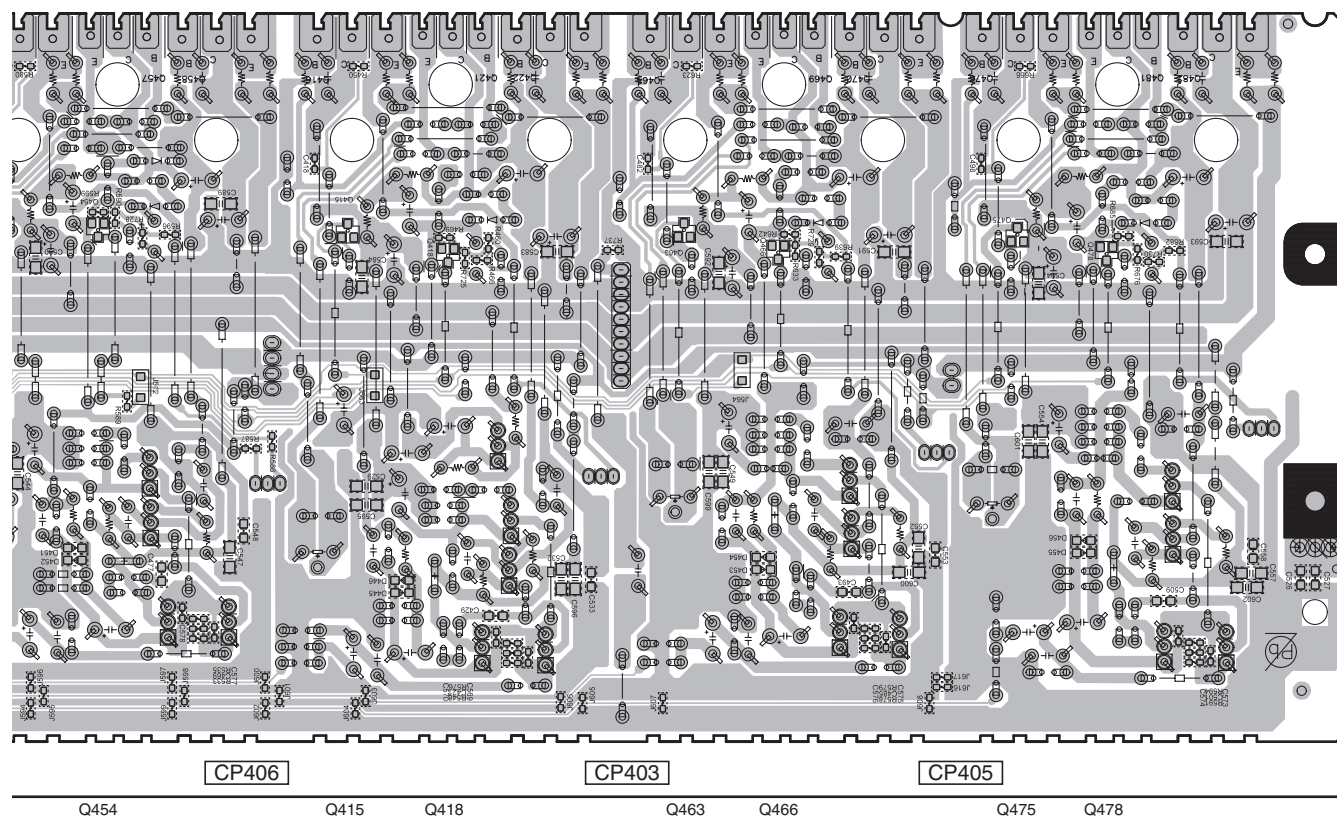
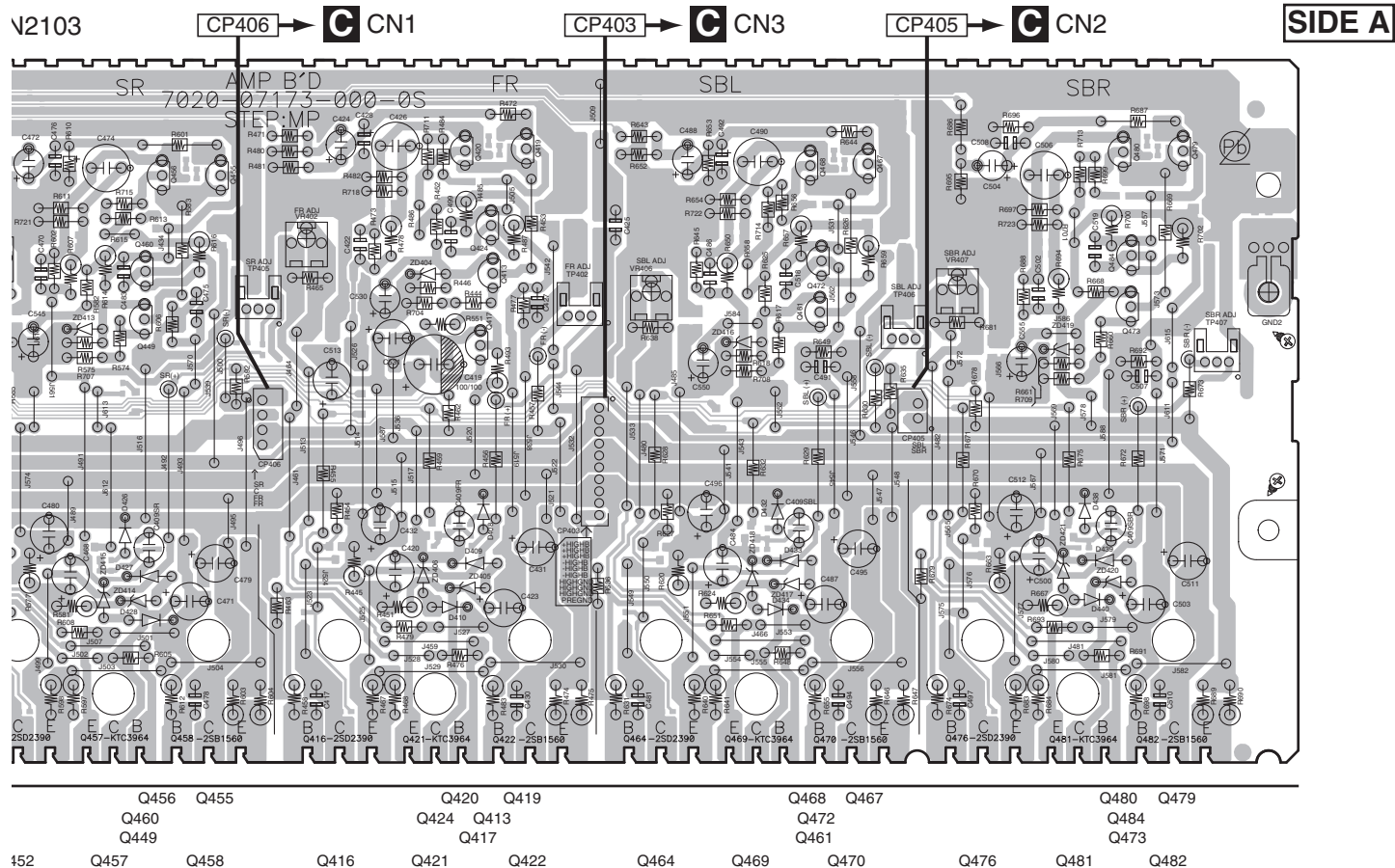
F

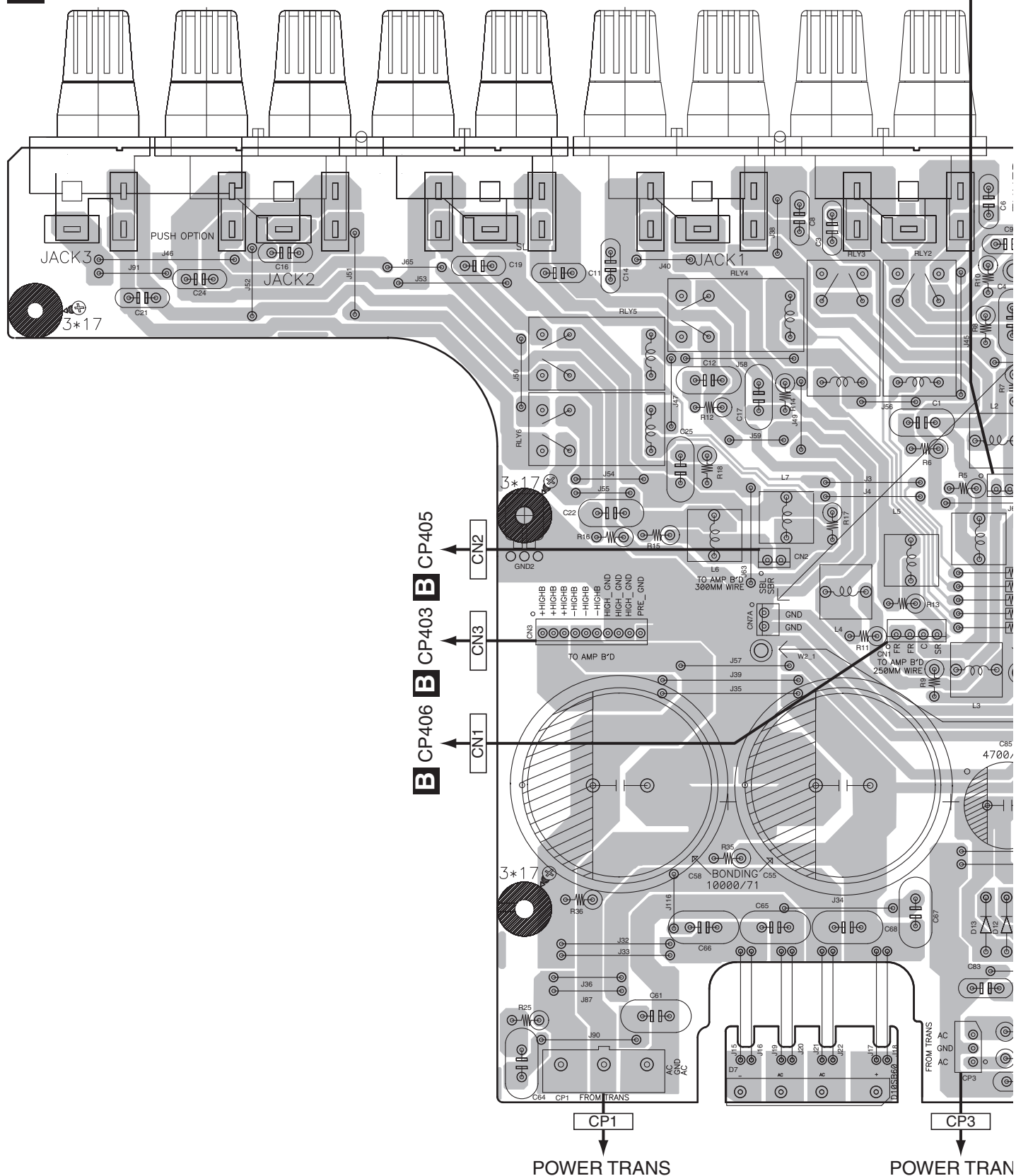


CN404



VSX-1127-K



SIDE A**C MAIN ASSY**

A

E

C

□

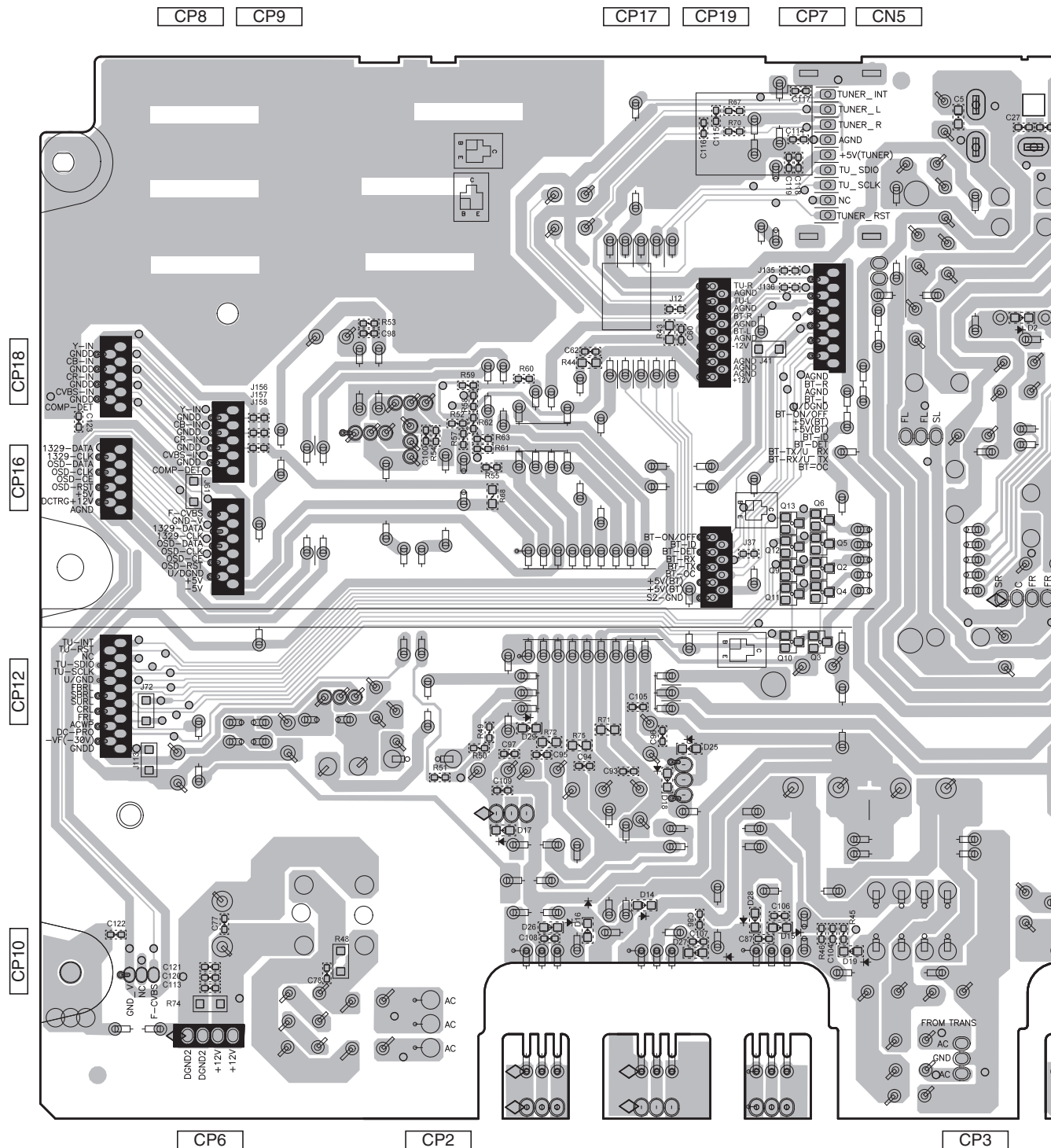
E

F



SIDE B

C MAIN ASSY



Q9-Q13 Q2-Q6

C

SIDE B

A

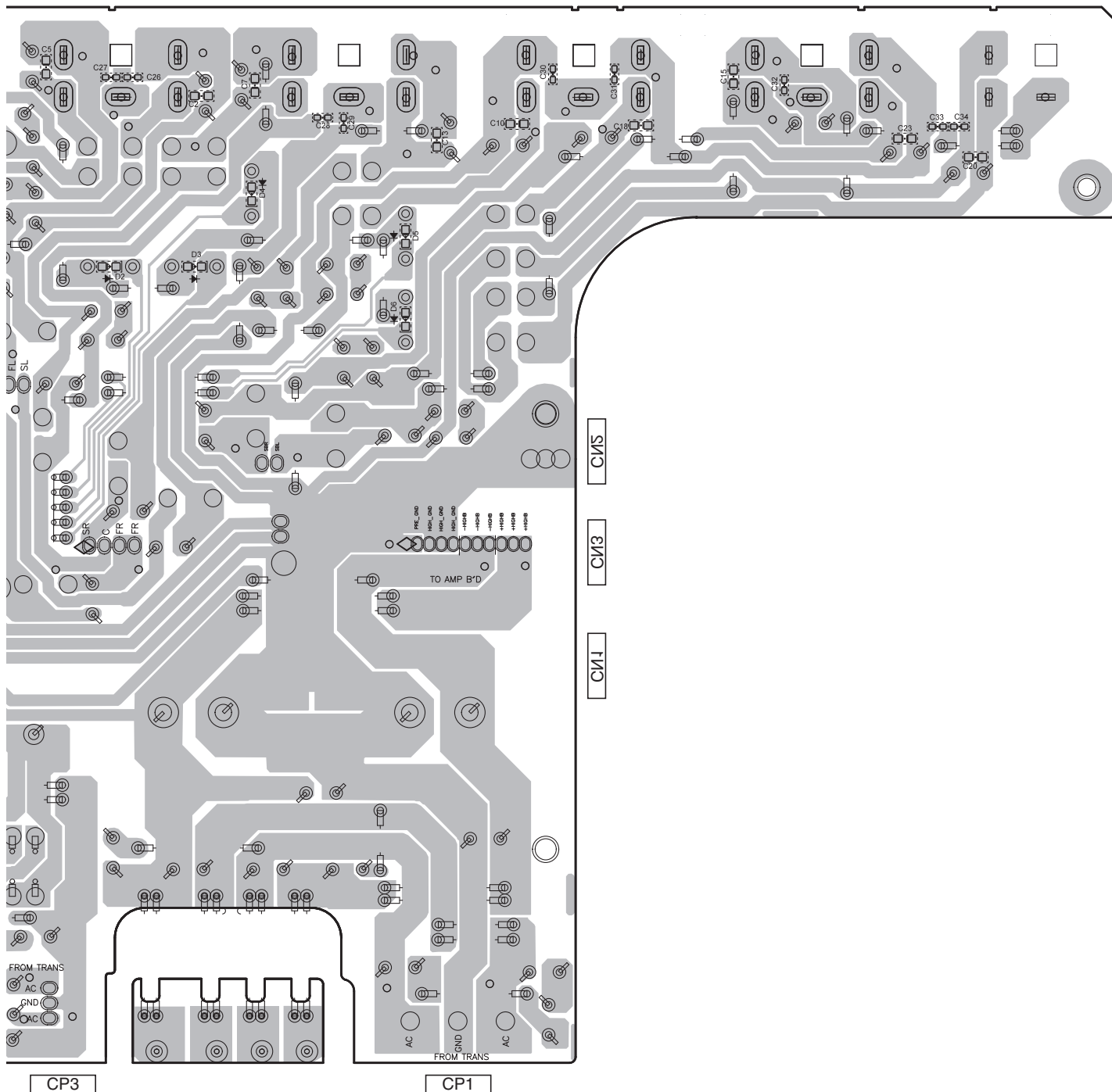
B

C

D

E

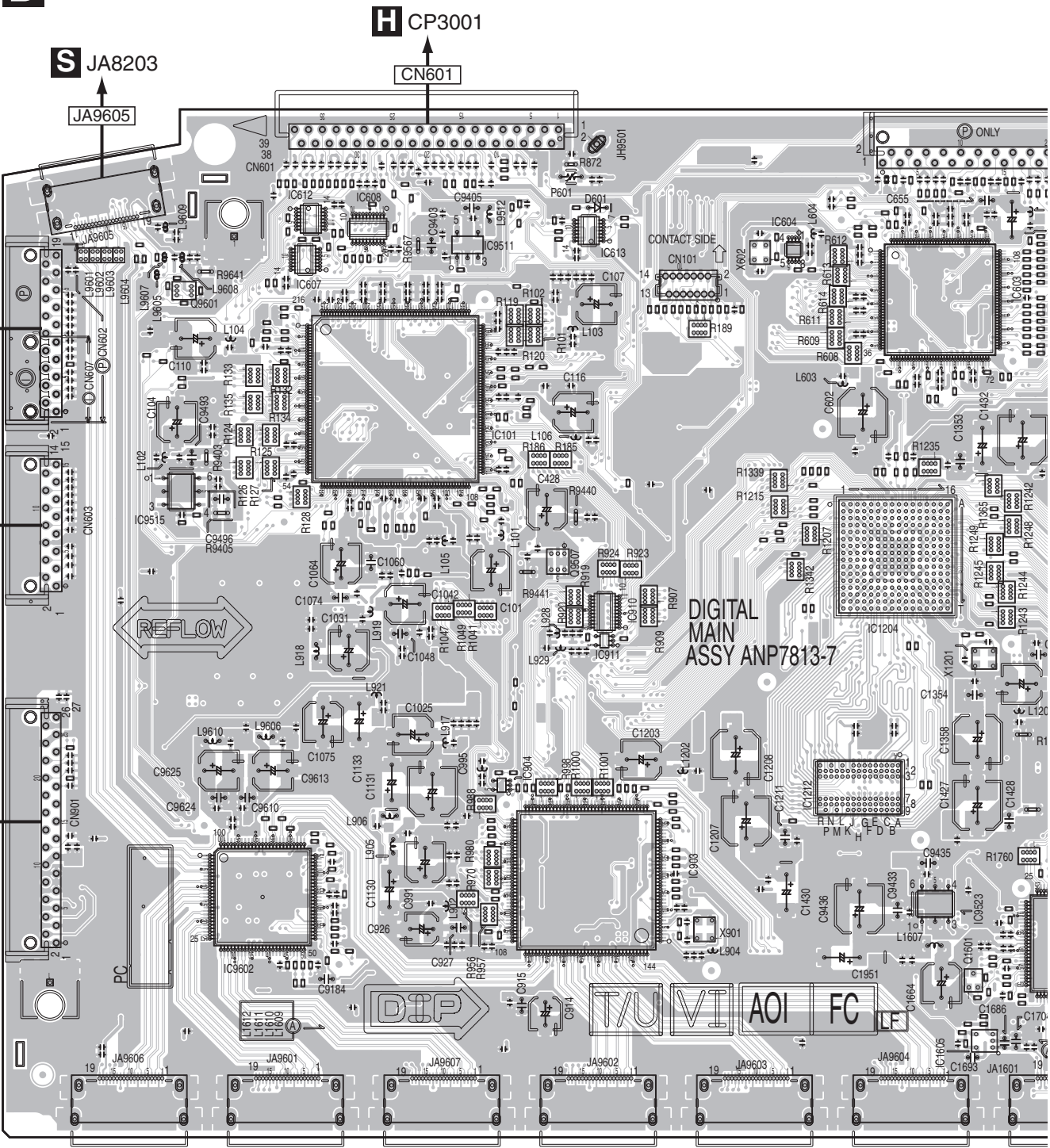
F



11.4 D-MAIN ASSY

SIDE A

D D-MAIN ASSY



Q9601 IC612 IC608 IC9511 IC613 IC604 IC603
 IC9515 IC607 IC101 IC911 IC903 IC1204
 IC9602 IC9603 IC9604 IC9605 IC9606 IC9607 IC9608 IC9609 IC9610 IC9611 IC9612 IC9613 IC9614 IC9615 IC9616 IC9617 IC9618 IC9619 IC9620 IC9621 IC9622 IC9623 IC9624 IC9625 IC9626 IC9627 IC9628 IC9629 IC9630 IC9631 IC9632 IC9633 IC9634 IC9635 IC9636 IC9637 IC9638 IC9639 IC9640 IC9641 IC9642 IC9643 IC9644 IC9645 IC9646 IC9647 IC9648 IC9649 IC9650 IC9651 IC9652 IC9653 IC9654 IC9655 IC9656 IC9657 IC9658 IC9659 IC9660 IC9661 IC9662 IC9663 IC9664 IC9665 IC9666 IC9667 IC9668 IC9669 IC9670 IC9671 IC9672 IC9673 IC9674 IC9675 IC9676 IC9677 IC9678 IC9679 IC9680 IC9681 IC9682 IC9683 IC9684 IC9685 IC9686 IC9687 IC9688 IC9689 IC9690 IC9691 IC9692 IC9693 IC9694 IC9695 IC9696 IC9697 IC9698 IC9699 IC9700 IC9701 IC9702 IC9703 IC9704 IC9705 IC9706 IC9707 IC9708 IC9709 IC9710 IC9711 IC9712 IC9713 IC9714 IC9715 IC9716 IC9717 IC9718 IC9719 IC9720 IC9721 IC9722 IC9723 IC9724 IC9725 IC9726 IC9727 IC9728 IC9729 IC9730 IC9731 IC9732 IC9733 IC9734 IC9735 IC9736 IC9737 IC9738 IC9739 IC9740 IC9741 IC9742 IC9743 IC9744 IC9745 IC9746 IC9747 IC9748 IC9749 IC9750 IC9751 IC9752 IC9753 IC9754 IC9755 IC9756 IC9757 IC9758 IC9759 IC9760 IC9761 IC9762 IC9763 IC9764 IC9765 IC9766 IC9767 IC9768 IC9769 IC9770 IC9771 IC9772 IC9773 IC9774 IC9775 IC9776 IC9777 IC9778 IC9779 IC9780 IC9781 IC9782 IC9783 IC9784 IC9785 IC9786 IC9787 IC9788 IC9789 IC9790 IC9791 IC9792 IC9793 IC9794 IC9795 IC9796 IC9797 IC9798 IC9799 IC9800 IC9801 IC9802 IC9803 IC9804 IC9805 IC9806 IC9807 IC9808 IC9809 IC9810 IC9811 IC9812 IC9813 IC9814 IC9815 IC9816 IC9817 IC9818 IC9819 IC9820 IC9821 IC9822 IC9823 IC9824 IC9825 IC9826 IC9827 IC9828 IC9829 IC9830 IC9831 IC9832 IC9833 IC9834 IC9835 IC9836 IC9837 IC9838 IC9839 IC9840 IC9841 IC9842 IC9843 IC9844 IC9845 IC9846 IC9847 IC9848 IC9849 IC9850 IC9851 IC9852 IC9853 IC9854 IC9855 IC9856 IC9857 IC9858 IC9859 IC9860 IC9861 IC9862 IC9863 IC9864 IC9865 IC9866 IC9867 IC9868 IC9869 IC9870 IC9871 IC9872 IC9873 IC9874 IC9875 IC9876 IC9877 IC9878 IC9879 IC9880 IC9881 IC9882 IC9883 IC9884 IC9885 IC9886 IC9887 IC9888 IC9889 IC9890 IC9891 IC9892 IC9893 IC9894 IC9895 IC9896 IC9897 IC9898 IC9899 IC9900 IC9901 IC9902 IC9903 IC9904 IC9905 IC9906 IC9907 IC9908 IC9909 IC9910 IC9911 IC9912 IC9913 IC9914 IC9915 IC9916 IC9917 IC9918 IC9919 IC9920 IC9921 IC9922 IC9923 IC9924 IC9925 IC9926 IC9927 IC9928 IC9929 IC9930 IC9931 IC9932 IC9933 IC9934 IC9935 IC9936 IC9937 IC9938 IC9939 IC9940 IC9941 IC9942 IC9943 IC9944 IC9945 IC9946 IC9947 IC9948 IC9949 IC9950 IC9951 IC9952 IC9953 IC9954 IC9955 IC9956 IC9957 IC9958 IC9959 IC9960 IC9961 IC9962 IC9963 IC9964 IC9965 IC9966 IC9967 IC9968 IC9969 IC9970 IC9971 IC9972 IC9973 IC9974 IC9975 IC9976 IC9977 IC9978 IC9979 IC9980 IC9981 IC9982 IC9983 IC9984 IC9985 IC9986 IC9987 IC9988 IC9989 IC9990 IC9991 IC9992 IC9993 IC9994 IC9995 IC9996 IC9997 IC9998 IC9999 Q1601

VSX-1127-K

11.5 IR ASSY

SIDE A

SIDE A

IR ASSY

D CN901

D CN603

D CN607

CP513

CP512

CP511

CP510

CP501

CP503

CN501

C CP18

C CP16

C CP12

B CN404

Q523
Q519 Q511 Q524
Q508
Q521

VSX-1127-K

E

118

SIDE B**SIDE B**

A

B

C

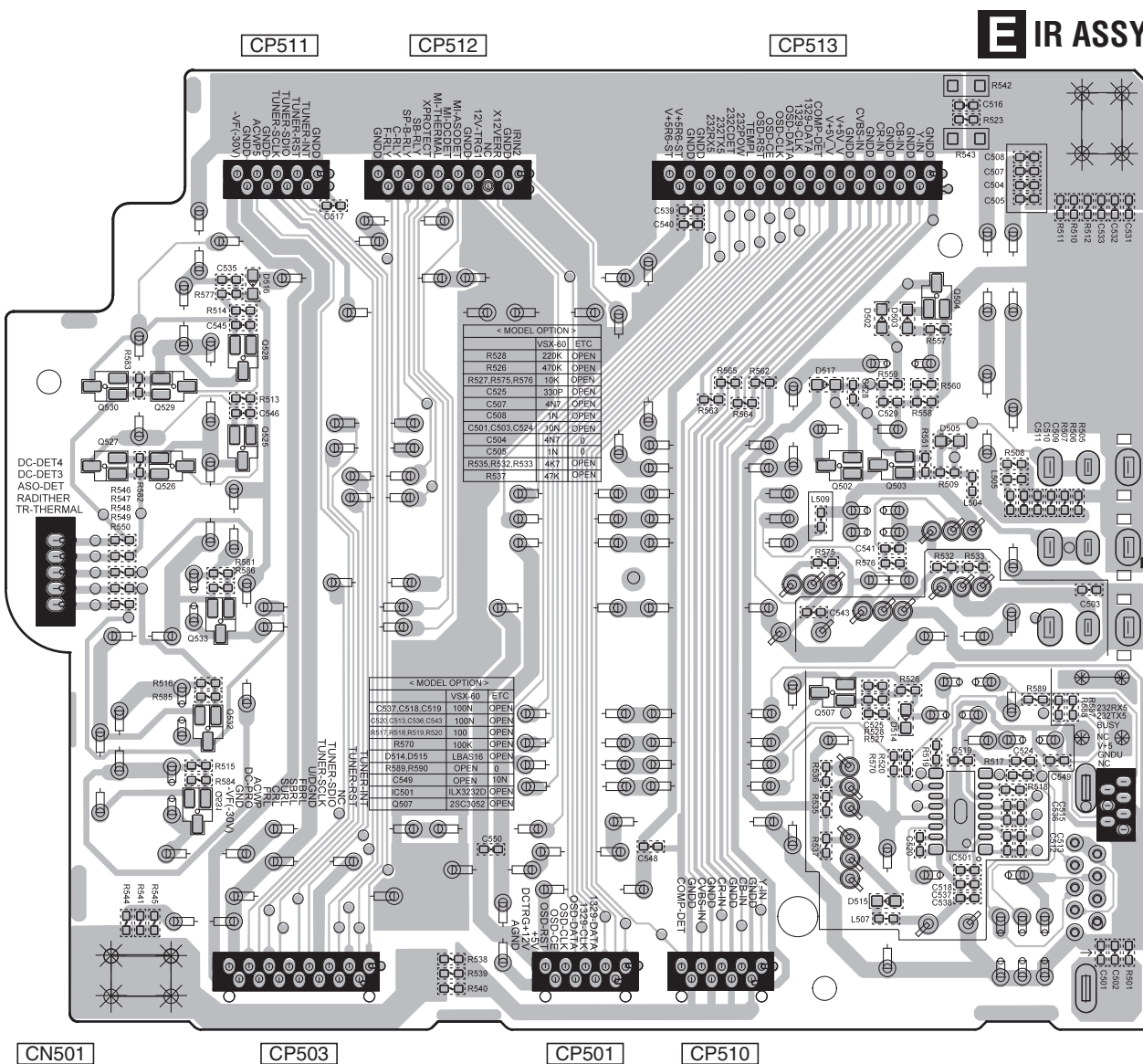
D

F

F

E

119



Q530 Q529 Q528
Q527 Q526 Q525
 Q533
 Q532
 Q531

Q502 Q503 Q504
Q507 IC501

VSX-1127-K

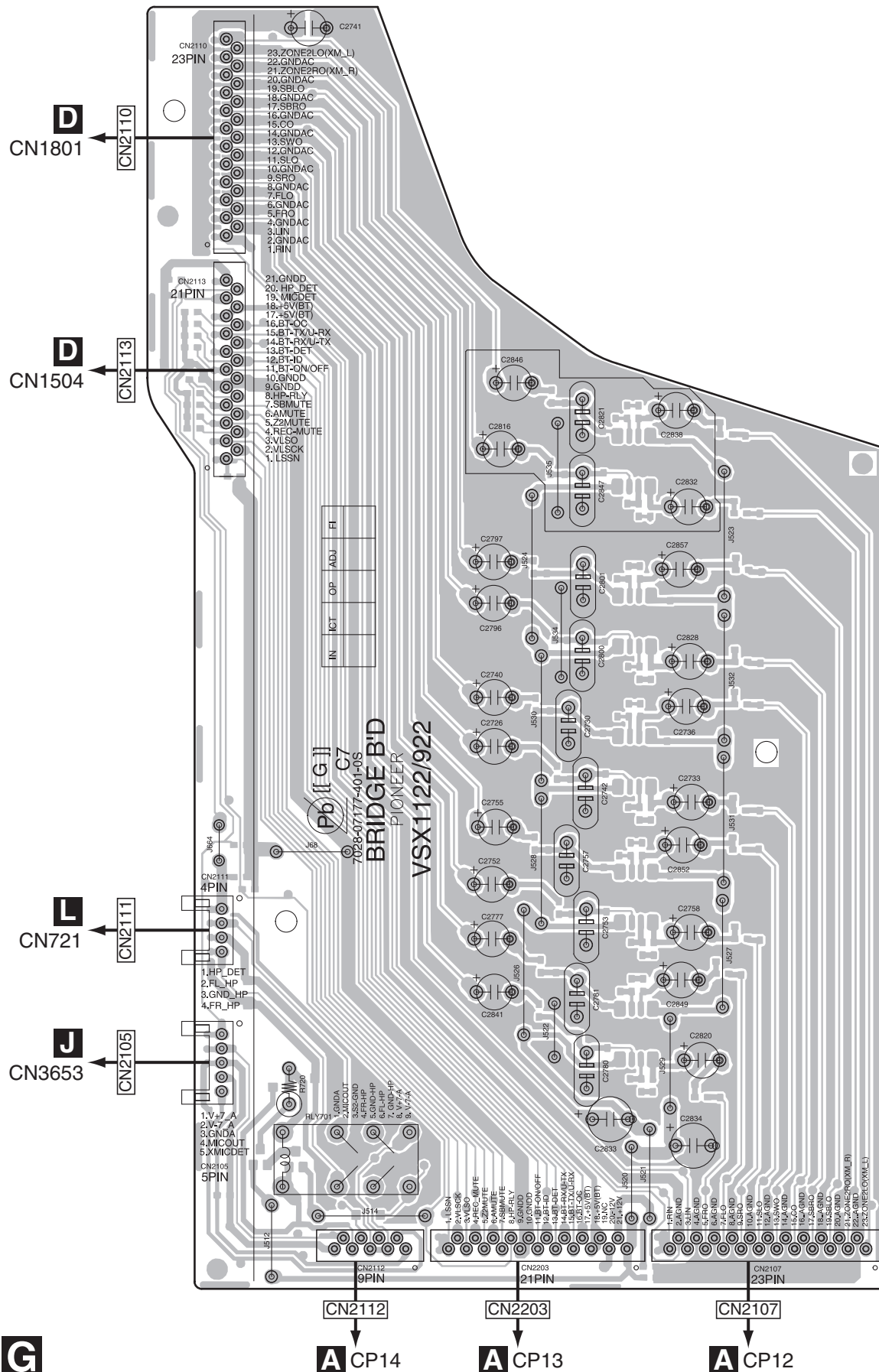
SIDE A**SIDE A**

F

SIDE A

G BRG ASSY

SIDE A



SIDE B

SIDE B

G BRG ASSY

IC2802

IC2782

IC2704

IC2742

IC2762

Q8 Q1

CN2107

CN2203

CN2112

CN2110

CN2113

CN2111

CN2105

< 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	
R2908, R2862	470	OPEN	
C2850, C2839	10N	OPEN	
C2844, C2817	4N7	OPEN	
C2846, C2816	10/50	OPEN	
C2832, C2838		OPEN	
R2880, R2932	100	OPEN	
R2958, R2908		OPEN	
IC2802	AZ4580	OPEN	

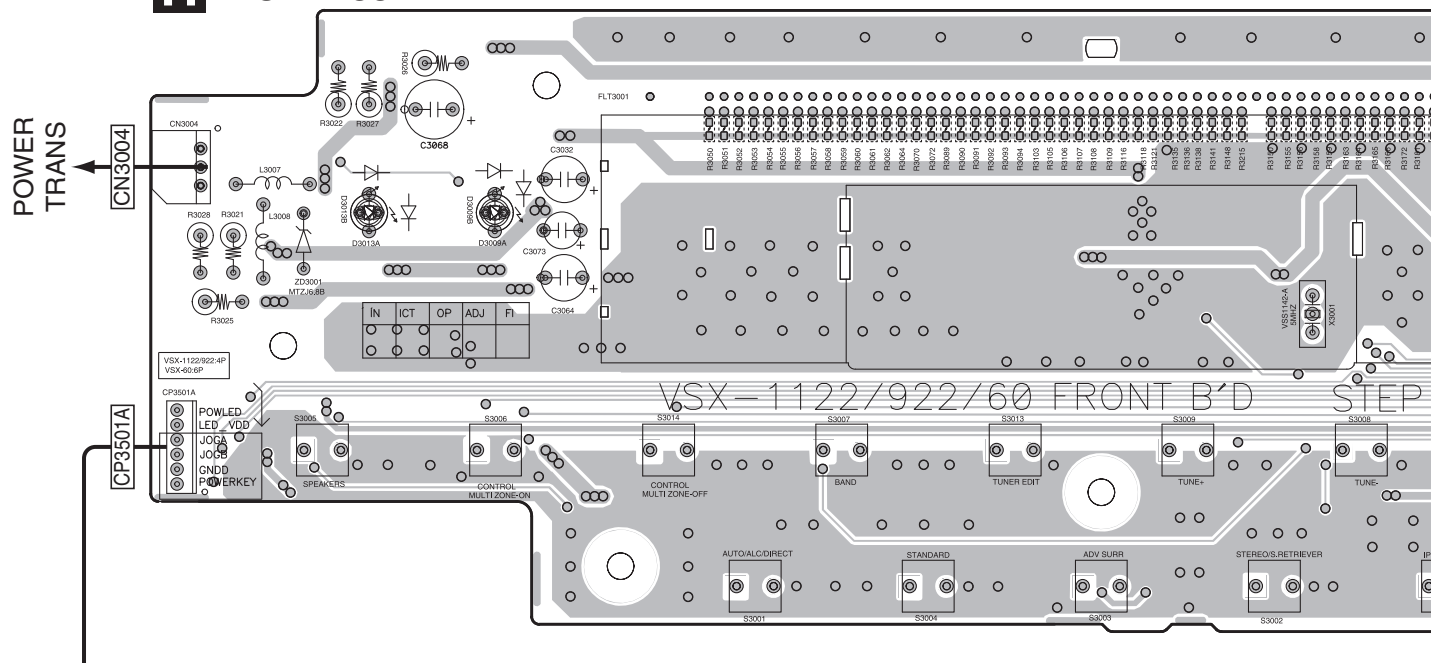
VSX-1127-K

G

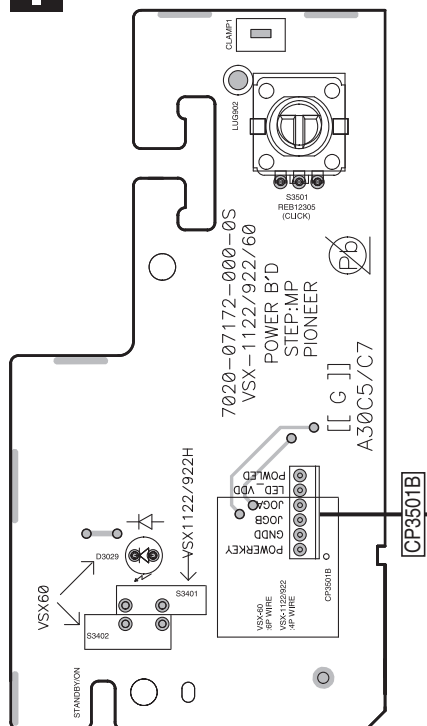
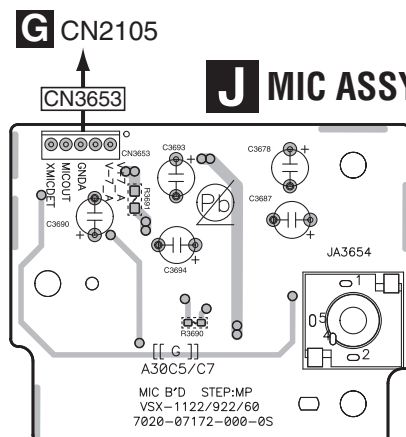
123

SIDE A

H FRONT ASSY



POWER ASSY

**J MIC ASSY**

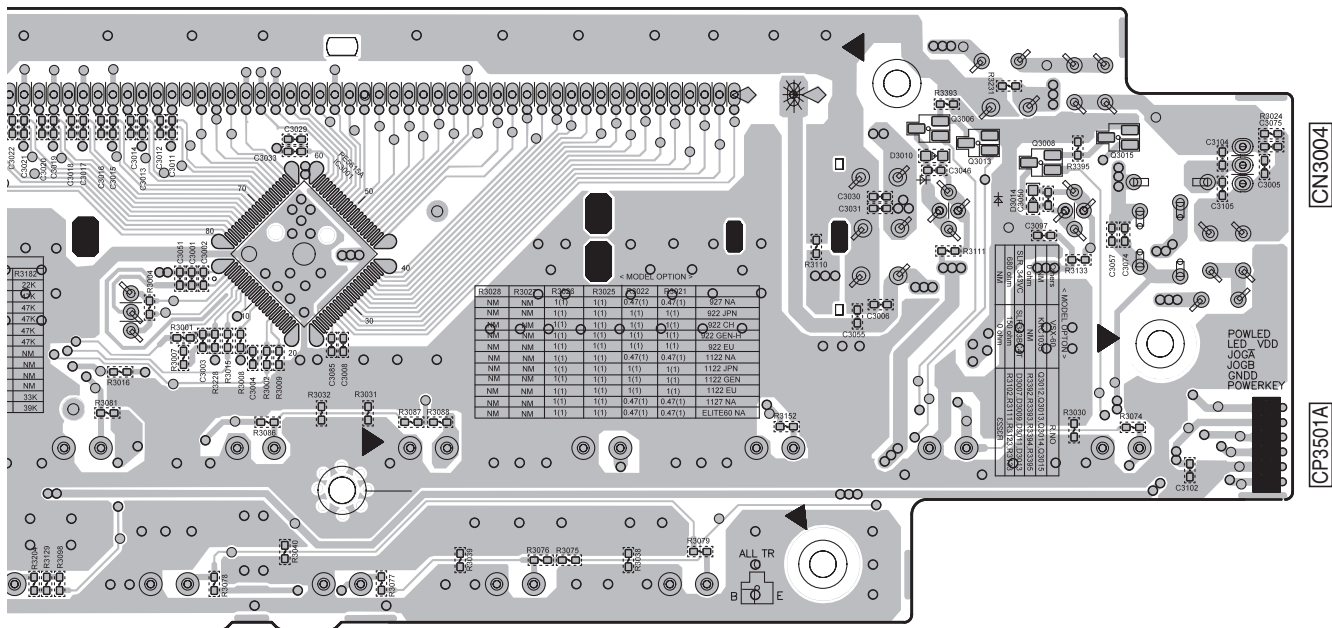
SIDE B

H FRONT ASSY

A

B

C



IC3001

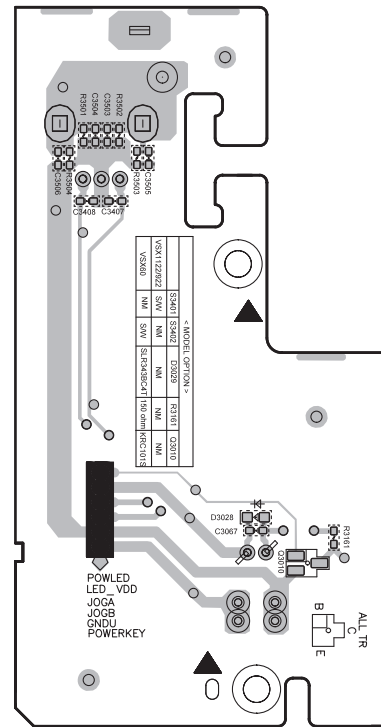
Q3006 Q3013 Q3008 Q3015

I POWER ASSY

D

E

F

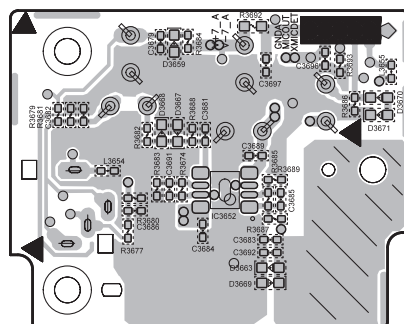


Q3010

J MIC ASSY

CN3653

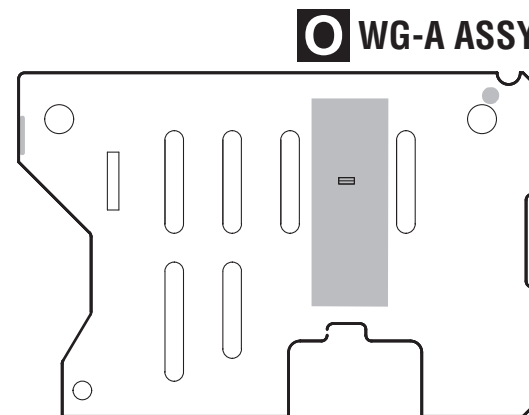
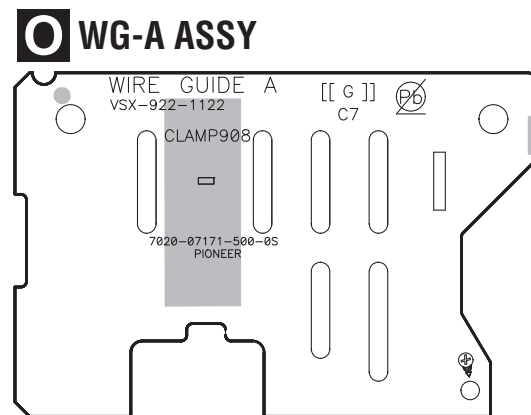
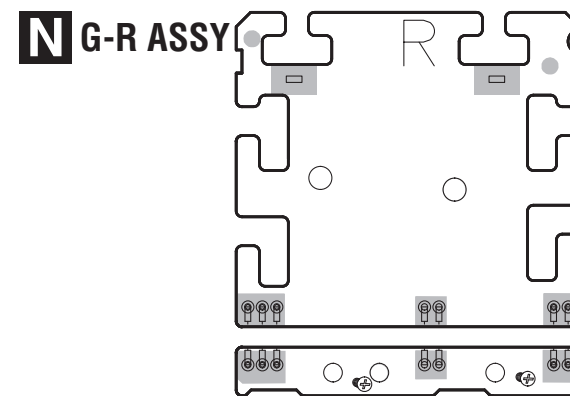
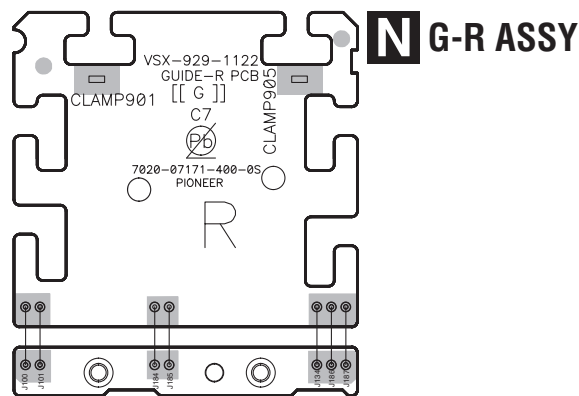
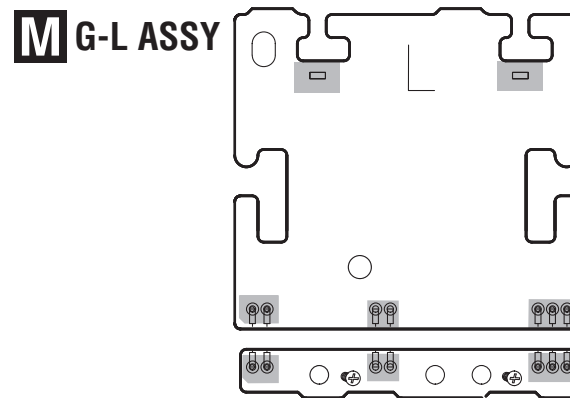
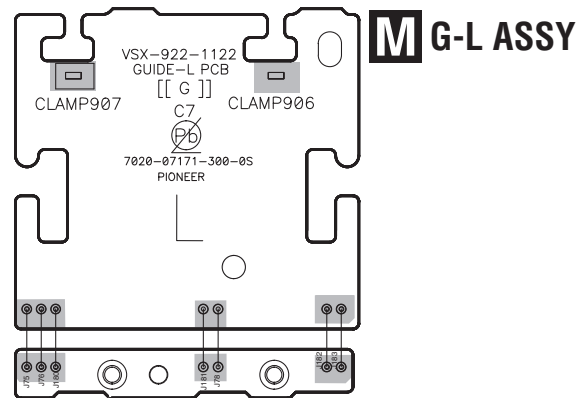
IC3652



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

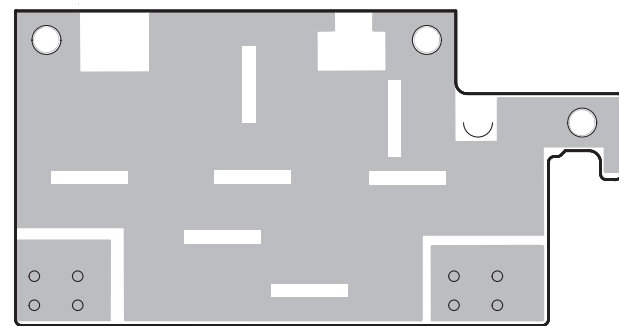
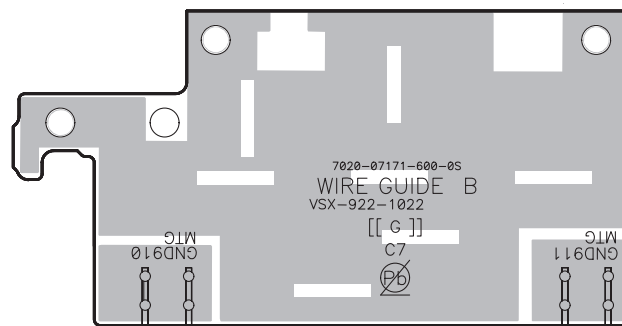
SIDE A

SIDE B



P WG-B ASSY

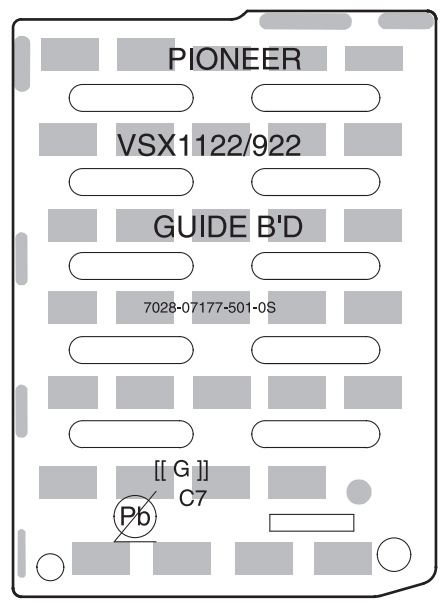
P WG-B ASSY



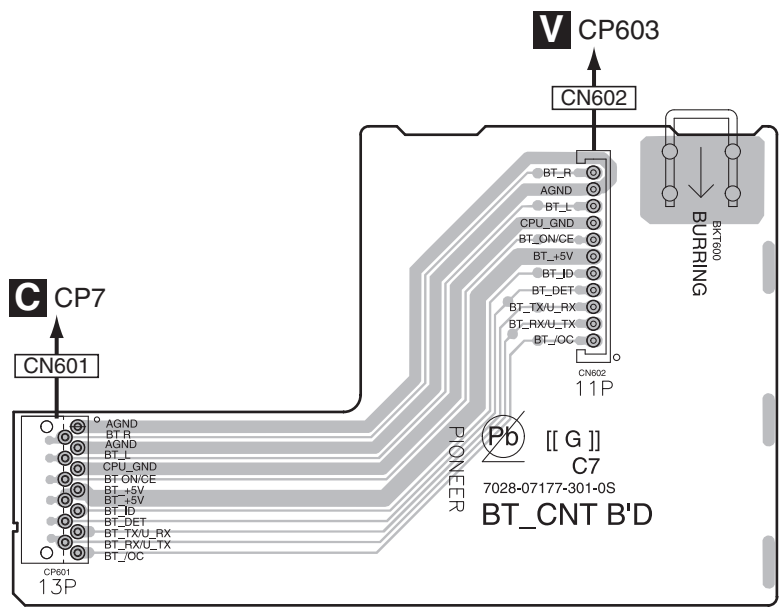
M N O P

SIDE A

SIDE A



Q CCG ASSY

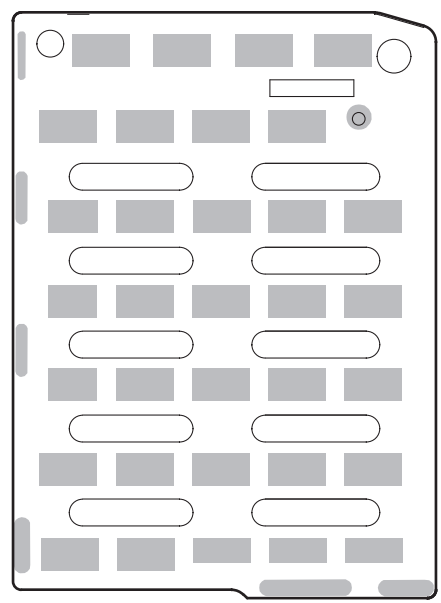


R BTCNT ASSY

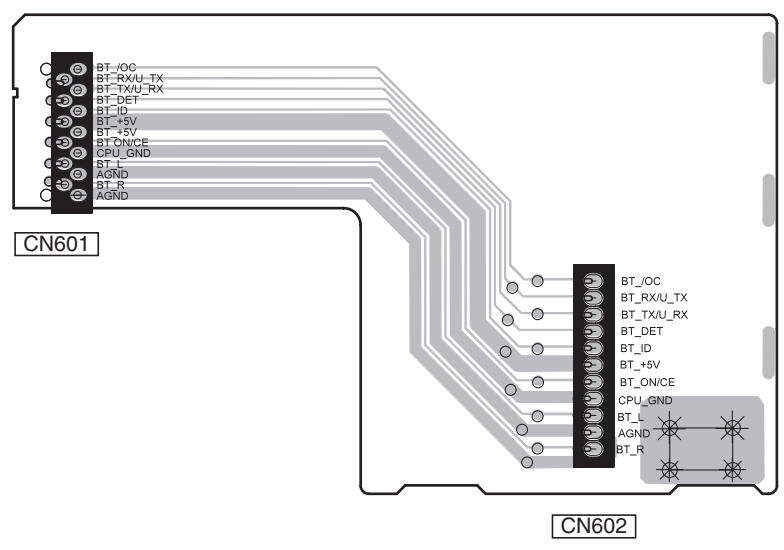
SIDE B

SIDE B

Q CCG ASSY

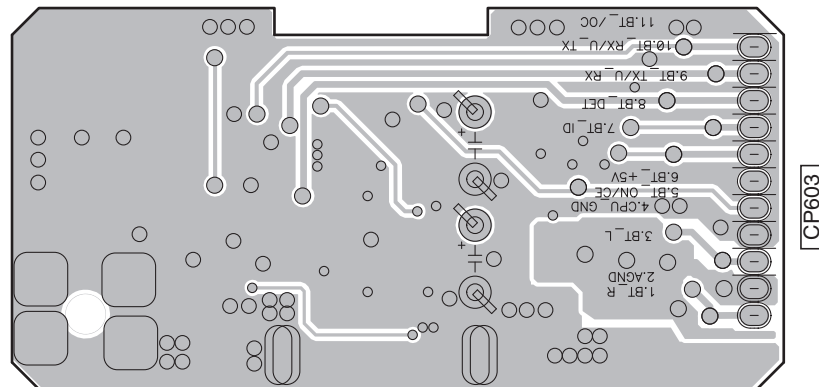


R BTCNT ASSY



SIDE A

131



SIDE A**SIDE A**

TR102

IC102

IC116

TR101

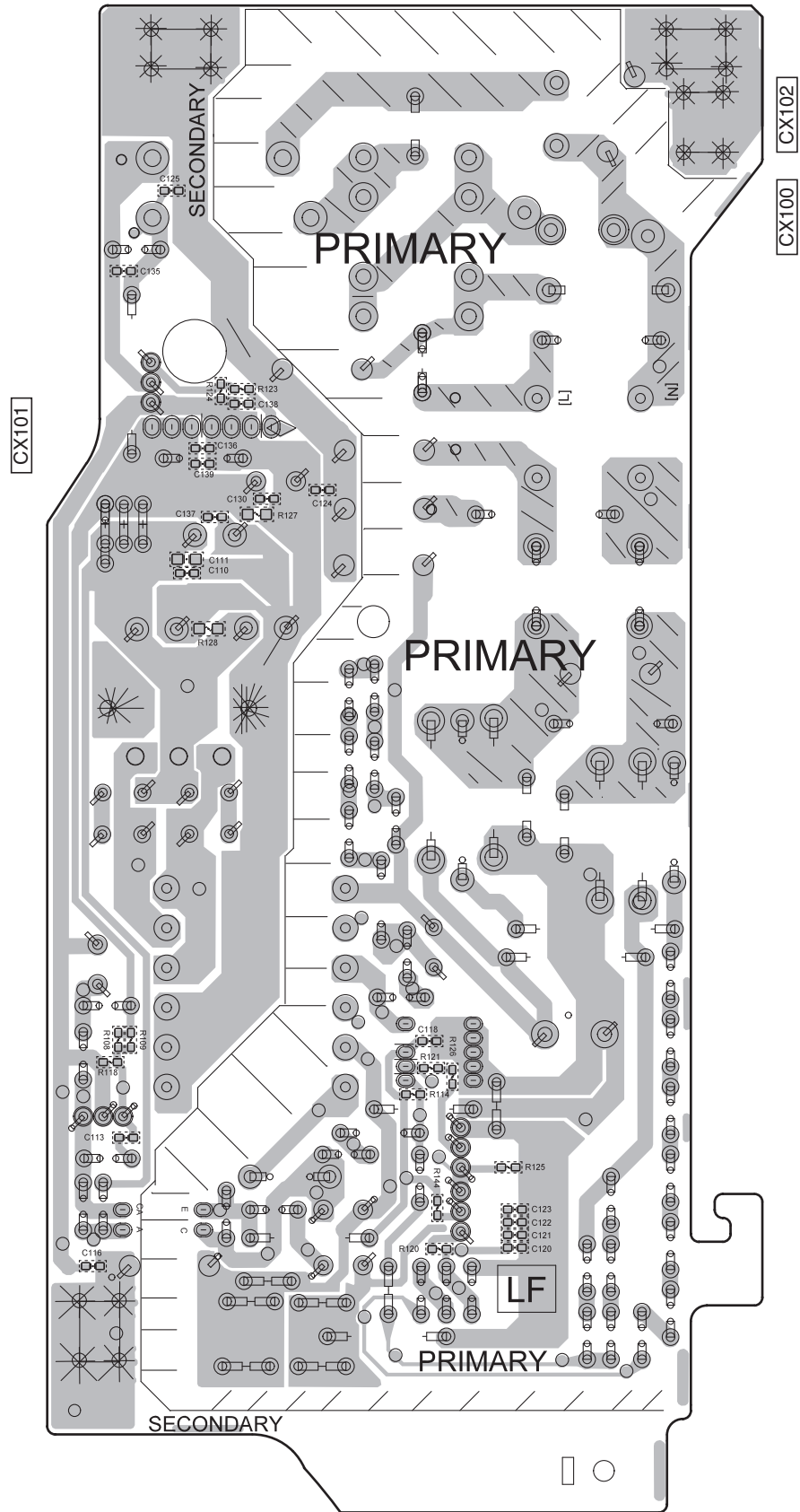
TR100	IC100
-------	-------

U

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

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

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

560 Ω $\rightarrow$ 56×10^1 $\rightarrow$ 561.....RD1/4PU $\begin{bmatrix} 5 \\ 6 \end{bmatrix} \begin{bmatrix} 1 \\ 0 \end{bmatrix} J$

47 k Ω $\rightarrow$ 47×10^3 $\rightarrow$ 473.....RD1/4PU $\begin{bmatrix} 4 \\ 7 \end{bmatrix} \begin{bmatrix} 3 \\ 0 \end{bmatrix} J$

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

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

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

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

- 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 $\rightarrow$ ● PCB PARTS LIST

BKT $\rightarrow$ none

CLAMP $\rightarrow$ none

W $\rightarrow$ none

LUG $\rightarrow$ none

P $\rightarrow$ none

BEAD $\rightarrow$ L

F $\rightarrow$ FU

FLT $\rightarrow$ V

JACK $\rightarrow$ JA

JACK $\rightarrow$ JA9***

RLY $\rightarrow$ RY

RMC $\rightarrow$ U

RES $\rightarrow$ X

XTAL $\rightarrow$ X9***

BD $\rightarrow$ L7***

SW $\rightarrow$ S

VEC $\rightarrow$ S9***

GND $\rightarrow$ KN

PACK $\rightarrow$ 9***

CP $\rightarrow$ CN

CP $\rightarrow$ CN9***

CX $\rightarrow$ CN9***

FPC $\rightarrow$ CN9***

JK $\rightarrow$ JA

PT $\rightarrow$ T

REG $\rightarrow$ IC

REG $\rightarrow$ IC9***

LED $\rightarrow$ D8***

Z $\rightarrow$ D9***

ZD $\rightarrow$ D9***

DZ $\rightarrow$ D9***

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

Mark	No.	Description	Part No.
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PARTS LIST (VSX-1127-K)

A AUDIO ASSY

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
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B AMP7 ASSY

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.
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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
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C MAIN ASSY

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 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.
<u>CAPACITORS</u>			
	C	1509	D040222081000-IL
<u>E IR ASSY</u>			
<u>MISCELLANEOUS</u>			
	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
<u>F VIDEO ASSY</u>			
<u>SEMICONDUCTORS</u>			
	IC	1001	J171132900010-IL
	IC	1007	PDC162A
	IC	1008	NJM2505AF
	Q	910	J5023209Y0010-IL
<u>MISCELLANEOUS</u>			
	JA	1001 TER,RCA 9PIN	G607902AA151Y-IL
	JA	1001 TER,RCA 9PIN	G607902AA133Y-IL
	X	1003 CRYSTAL	E80014R318080-IL
<u>G BRG ASSY</u>			
<u>SEMICONDUCTORS</u>			
	IC	2704,2742,2762,2782	J121458001010-IL
	IC	2802	J121458001010-IL
<u>MISCELLANEOUS</u>			
	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
<u>RESISTORS</u>			
	R	720	C060010063050-IL
<u>H FRONT ASSY</u>			
<u>SEMICONDUCTORS</u>			
	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
<u>MISCELLANEOUS</u>			
	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	E80015R0000020-IL
		3000 FL HOLDER	4320211016000-IL
	U	3001 MODULE,REMOCON	E940349003810-IL
<u>RESISTORS</u>			
	R	3021,3022	C060R47065050-IL
	R	3025,3026	C060001065060-IL

Mark No. Description**Part No.****Mark No. Description****Part No.**

A

I POWER ASSY
MISCELLANEOUSS 3401 SWITCH
S 3501 SW,ENCODERG180501000010-IL
G121125052011-IL**T F-USB ASSY**
MISCELLANEOUS

JA 600 CN,PLUG CONTACT

G480040000180-IL

B

J MIC ASSY
SEMICONDUCTORS

IC 3652

J121458001010-IL

MISCELLANEOUS

JA 3654 JACK,D3.5

G401PJ354H40Y-IL

C

K FVIDEO ASSY
MISCELLANEOUS

JA 3656 TER,RCA 1PIN

G600101HG000Y-IL

D

L HP ASSY
MISCELLANEOUS

JA 701 JACK,D6.5

G402PJ612AG1Y-IL

E

M G-L ASSY

There is no service parts.

F

N G-R ASSY

There is no service parts.

G

O WG-A ASSY

There is no service parts.

H

P WG-B ASSY

There is no service parts.

I

Q CCG ASSY

There is no service parts.

J

R BTCNT ASSY
MISCELLANEOUSCN 602 CN.WAFER 2.0MM
600 BRACKETL101100041110-IL
4010210196100-IL

K

S FHDMI ASSY
SEMICONDUCTORS

IC 8202

PCA9517DGK

L

MISCELLANEOUSJA 8202 CN.WAFER
JA 8203 CN.WAFERL109100190060-IL
L109100190170-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