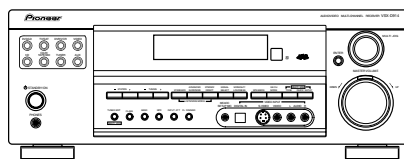


Service Manual



VSX-D914-K

ORDER NO.
RRV2889

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D914-K

VSX-D814-K

VSX-D814-S

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

Model	Type	Power Requirement	Remarks
VSX-D914-K	KUXJICA	AC120V	
VSX-D814-K	KUXJICA	AC120V	
VSX-D814-S	KUXJICA	AC120V	



For details, refer to "Important symbols for good services".

SAFETY INFORMATION



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

WARNING

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

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

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

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

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

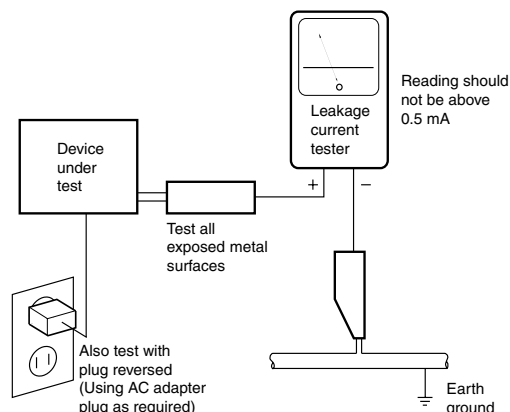
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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



AC Leakage Test

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

2. PRODUCT SAFETY NOTICE

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

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

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

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

[Important symbols for good services]

In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely. When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

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1. SPECIFICATIONS

Amplifier section

Continuous average power output of 110 watts (VSX-D914) / 100 watts (VSX-D814)* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.2 %** total harmonic distortion (front).

Continuous power output (stereo)

VSX-D914 (Front)..... 110 W
(20–20,000 Hz, THD 0.2 %, 8 Ω)
VSX-D814 (Front)..... 100 W
(20–20,000 Hz, THD 0.2 %, 8 Ω)

Continuous power output (surround)

VSX-D914
Front..... 110 W per channel
(1kHz, 1.0 %, 8 Ω)
Center..... 110 W (1kHz, 1.0 %, 8 Ω)
Surround..... 110 W per channel
(1kHz, 1.0 %, 8 Ω)
Surround Back..... 110 W per channel
(1kHz, 1.0 %, 8 Ω)
VSX-D814
Front..... 100 W per channel
(1kHz, 1.0 %, 8 Ω)
Center..... 100 W (1kHz, 1.0 %, 8 Ω)
Surround..... 100 W per channel
(1kHz, 1.0 %, 8 Ω)
Surround Back..... 100 W per channel
(1kHz, 1.0 %, 8 Ω)

Input (Sensitivity/Impedance)

CD, DVR/VCR, CD-R/TAPE/MD,
DVD/LD, TV/SAT..... 200 mV/47 k Ω

Frequency response

CD, DVR/VCR, CD-R/TAPE/MD, DVD/LD,
TV/SAT..... .5 Hz to 100,000 Hz ± 3 dB

Output (Level/Impedance)

DVR/VCR REC, CD-R/TAPE/
MD REC..... 200 mV/2.2 k Ω

Tone control

Bass..... ± 6 dB (100 Hz)
Treble..... ± 6 dB (10 kHz)
Loudness... +6.5 dB/+3 dB (100 Hz/10 kHz)
(at volume level -50 dB)

Signal-to-Noise Ratio

(IHF, short circuited, A network)

CD, DVR/VCR, CD-R/TAPE/MD,
DVD/LD, TV/SAT..... 96 dB

Signal-to Noise Ratio

[EIA, at 1 W (1 kHz)]

CD, DVR/VCR, CD-R/TAPE/MD,
DVD/LD, TV/SAT..... 79 dB

Video Section

Input (Sensitivity/Impedance)

DVR/VCR, DVD/LD, TV/SAT..... 1 Vp-p/75 Ω

Output (Level/Impedance)

DVR/VCR, MONITOR OUT..... 1 Vp-p/75 Ω

Frequency response

DVR/VCR, DVD/LD,
TV/SAT $\Rightarrow$ MONITOR..... 5 Hz to 7 MHz ± 3 dB
Signal-to-Noise Ratio..... 55 dB

Component video section

Input (Sensitivity)

DVD/LD, TV/SAT..... 1 Vp-p/75 Ω

Output (Level/Impedance)

MONITOR OUT..... 1 Vp-p/75 Ω

Frequency response

DVD/LD,

TV/SAT ⇒ MONITOR . . . 5 Hz to 40 MHz ± 3 dB
Signal-to-Noise Ratio. 55 dB

FM Tuner Section

Frequency Range. 87.5 MHz to 108 MHz
Usable Sensitivity. Mono: 13.2 dBf, IHF
(1.3 μ V/ 75 Ω)
50 dB Quieting Sensitivity. Mono: 20.2 dB
. Stereo: 38.6 dBf
Signal-to-Noise Ratio. Mono: 73 dB
(at 85 dBf)
. Stereo: 70 dB (at 85 dBf)
Distortion. Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity. 60 dB
(400 kHz)
Stereo Separation. 40 dB (1 kHz)
Frequency Response. 30 Hz to 15 kHz
(± 1 dB)
Antenna Input (DIN). 75 Ω unbalanced

AM Tuner Section

Frequency Range. 530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna). 350 μ V/m
Selectivity. 25 dB
Signal-to-Noise Ratio. 50 dB
Antenna. Loop antenna

Miscellaneous

Power Requirements. AC 120 V, 60Hz
Power Consumption. 300W, 420 VA
In standby. 0.5 W
AC Outlet. 100 W MAX. (SWITCHED)
Dimensions. 420 (W) x 158 (H) x 401 (D) mm
(16-9/16 (W) x 6-4/16 (H) x 15-6/16 (D) in.)
Weight (without package). 10.6 kg (23.4 lb)

Furnished Parts

AM loop antenna 1
FM wire antenna. 1
AA/LR6 dry cell batteries 2
Remote control 1
Microphone (VSX-D914 model only). 1
Microphone stand (VSX-D914 model only) . . 1
Operating instructions. 1



Note

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

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

** Measured by Audio Spectrum Analyzer.

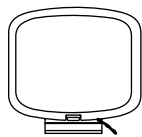
Cleaning the unit

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surface is dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleansers.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surface.

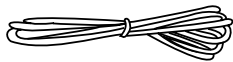
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"DTS", "DTS-ES Extended Surround" and "Neo:6" are trademarks of Digital Theater Systems, Inc.

Accessories



AM loop antenna
(ATB7013)



FM wire antenna
(ADH7030)

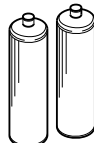


Microphone
(APM7004)

VSX-D914 Only



Microphone Stand
(AEB7269)



AA size IEC LR6
Dry cell batteries (x2)

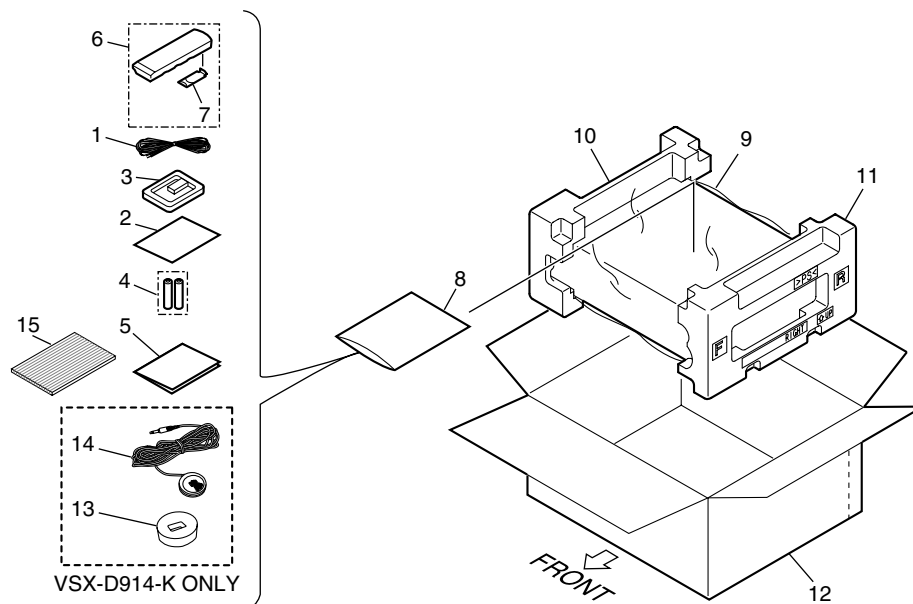


Remote control unit
(VSX-D914 : XXD3070)
(VSX-D814 : XXD3069)

2. EXPLODED VIEWS AND 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.
 - 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.)

2.1 PACKING



PACKING PARTS LIST

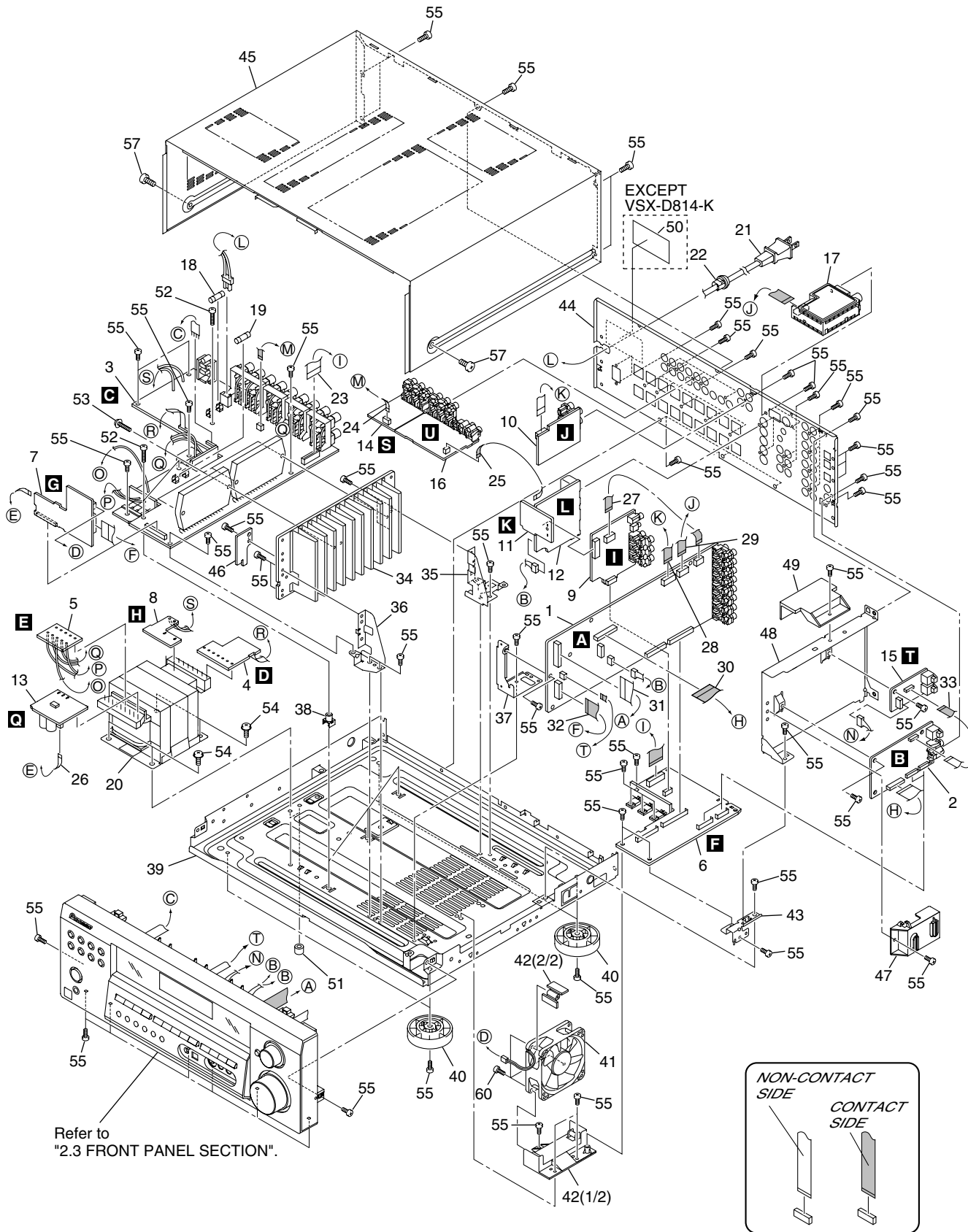
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	FM wire antenna	ADH7030	11	Right Pad V1	XHA3142
NSP 2	Warranty Card	ARY7045	12	Packing Case	See Contrast table(2)
3	AM loop antenna	ATB7013	13	MIC Stand 45	See Contrast table(2)
NSP 4	Alkaline Dry cell batteries (AA/LR6)	VEM1023	14	Microphone Assy	See Contrast table(2)
5	Operating instructions (English)	XRB3028	NSP 15	Accessory Board R6	XHB3008
6	Remote Control Unit	See Contrast table(2)			
7	Battery Cover	XZN3140			
NSP 8	Literature Bag	AHG1180			
9	Packing Sheet	AHG7069			
10	Left Pad V1	XHA3141			

(2) CONTRAST TABLE

VSX-D914-K/KUXJICA, VSX-D814-K/KUXJICA and VSX-D814-S/KUXJICA are constructed the same except for the following:

Mark	NO	Description	VSX-D914-K /KUXJICA	VSX-D814-K /KUXJICA	VSX-D814-S /KUXJICA
	6	Remote Control Unit	XXD3070	XXD3069	XXD3069
	12	Packing Case	XHD3392	XHD3390	XHD3391
	13	MIC Stand 45	AEB7269	Not used	Not used
	14	Microphone Assy	APM7004	Not used	Not used

2.2 EXTERIOR SECTION



EXTERIOR SECTION parts List

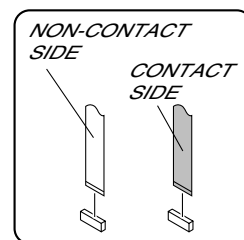
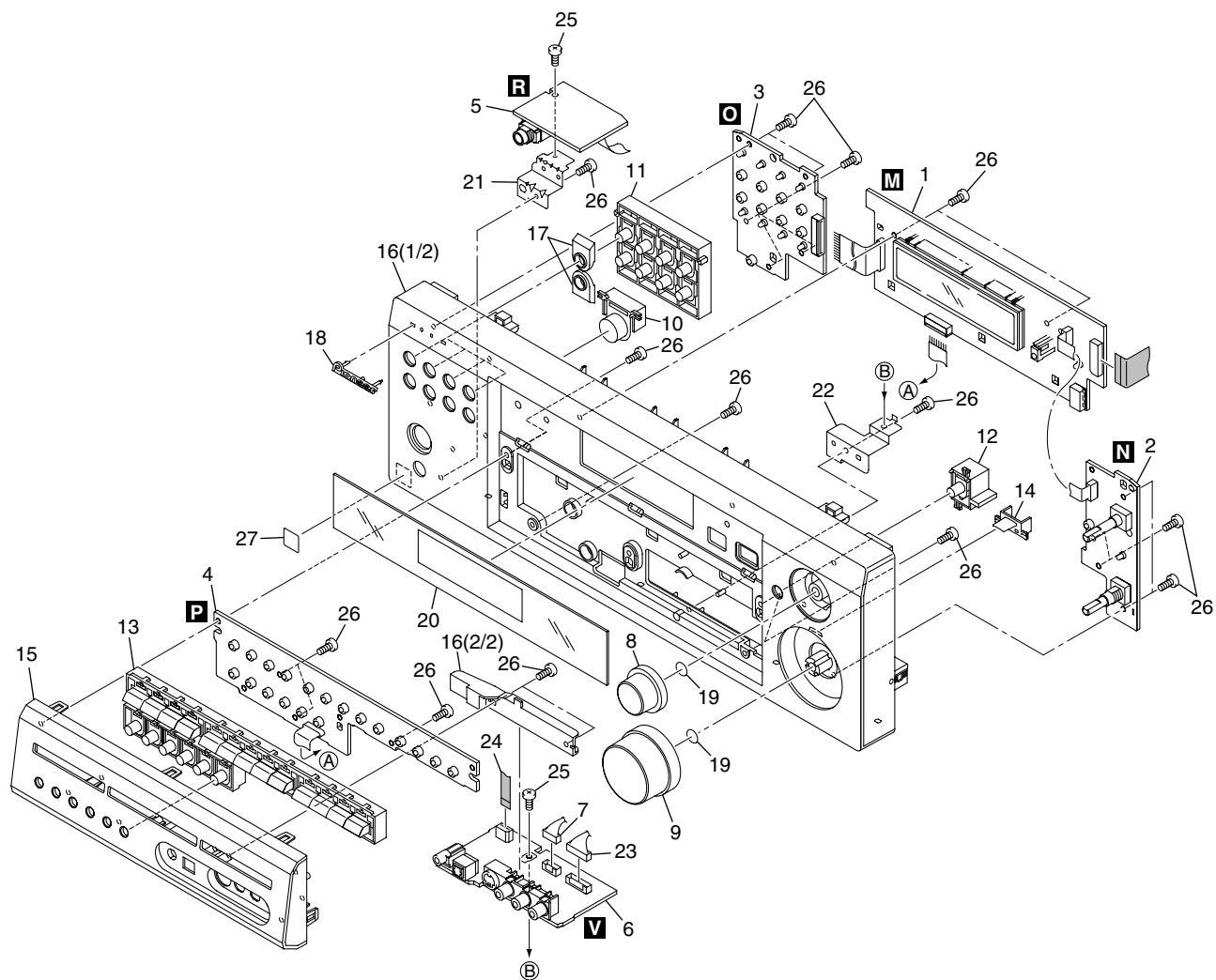
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	MAIN Assy	See Contrast table(2)	31	J31 17P F.F.C/30V	XDD3118
2	DSP Assy	AWX1082	32	J35 19P F.F.C/30V	XDD3101
3	AMP & PRIMARY Assy	See Contrast table(2)	33	J37 10P F.F.C/30V	XDD3127
4	TRANS2 Assy	XWZ3811	NSP 34	Heatsink R6A CORR	XNH3026
5	TRANS3 Assy	XWZ3814	35	H/S Angle Rear	XNG3095
6	REGULATOR Assy	XWZ3799	36	H/S Angle Front	XNG3094
7	AMP INPUT Assy	XWZ3804	37	PCB Angle R5	XNG3073
8	TRANS1 Assy	XWZ3807	38	PCB Mold	AMR2533
9	VIDEO Assy	XWZ3753	NSP 39	Under Base R6	XNA3012
10	5.1CH Assy	XWZ3760	40	Insulator	PNW2766
11	B TO B Assy	XWZ3781	41	DC Fan Motor	XXM3007
12	S. VIDEO Assy	XWZ3776	42	Fan Holder R6	XMR3066
13	TRANS4 Assy	XWZ3778	43	REG Support R6	XNG3093
14	PRE-OUT Assy	XWZ3779	44	Rear Panel 812K	XNC3245
15	DIGITAL IN Assy	XWZ3773	45	Bonnet	See Contrast table(2)
16	COMPONENT Assy	XWZ3777	NSP 46	HOLDER Assy	XWZ3821
17	FM/AM TUNER UNIT	AXX7172	47	FFC Holder R6	XMR3072
⚠ 18	FU1 Fuse (10A)	REK1087	48	Shield A R6	XNG3068
⚠ 19	FU701 Fuse (10A)	REK1087	49	FFC Cover R6	XMR3060
⚠ 20	T1 Power Transformer	XTS3082	NSP 50	N Label	See Contrast table(2)
⚠ 21	AC Power Cord	ADG7024	NSP 51	Spacer	AEB7092
22	Cord Stopper	CM-22C	52	Screw	BBZ30P200FTC
23	J36 23P F.F.C/30V	XDD3102	53	Screw 3x23	XBA3012
24	J46 7P F.F.C/30V	XDD3105	54	Screw	FBT40P080FNI
25	J38 5P F.F.C/30V	XDD3104	55	Screw	BBZ30P080FTC
26	J22 3P F.F.C/30V	XDD3107	56	•••••	
27	J33 11P F.F.C/30V	XDD3150	57	Screw	See Contrast table(2)
28	J48 9P F.F.C/30V	XDD3151	58	•••••	
29	J34 13P F.F.C/30V	XDD3149	NSP 59	BINDER Assy	XWZ3818
30	J43 19P F.F.C/30V	XDD3126	60	Screw	BPZ30P120FTC

(2) CONTRAST TABLE

VSX-D914-K/KUXJICA, VSX-D814-K/KUXJICA and VSX-D814-S/KUXJICA are constructed the same except for the following:

Mark	NO	Description	VSX-D914-K /KUXJICA	VSX-D814-K /KUXJICA	VSX-D814-S /KUXJICA
	1	MAINP Assy	XWK3125	XWK3122	XWK3122
	3	AMP & PRIMARY Assy	XWZ3795	XWZ3792	XWZ3792
	45	Bonnet K V1	XZN3148	XZN3148	Not used
	45	Bonnet S V1	Not used	Not used	XZN3149
NSP	50	N Label 914K/KU	XAL3196	Not used	Not used
NSP	50	N Label 814S/KU	Not used	Not used	XAL3195
	57	Screw	FBT40P080FZK	FBT40P080FZK	FBT40P080FNI

2.3 FRONT PANEL SECTION



FRONT PANEL SECTION parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	FRONT DISPLAY ASSY	XWZ3756	16	D Panel MCACC V1	XAK3426
2	R. ENCODER Assy	XWZ3822	17	Function Lens V1	XAK3428
3	P. SW & FUNC. KEY Assy	XWZ3764	18	Pioneer Badge B	See Contrast table(2)
4	FRONT KEY Assy	XWZ3758	NSP 19	C Ring DIM 8.1	XBH3016
5	H.P. Assy	XWZ3768	20	FRT Panel	See Contrast table(2)
6	FRONT OPT & MIC Assy	See Contrast table(2)	21	Earth Plate R5 HP	XNG3066
7	J29 8P Shield Cable	XDX3022	22	Earth Plate FI V1	XNG3119
8	JOG Knob	See Contrast table(2)	23	J30 5P Shield Cable	XDX3023
9	VOL Knob	See Contrast table(2)	24	J32 5P F.F.C/30V	See Contrast table(2)
10	Standby BTN V1	See Contrast table(2)	25	Screw	BBZ30P080FTC
11	FUNC BTN V1	See Contrast table(2)	26	Screw	BPZ30P100FTC
12	Enter BTN V1	See Contrast table(2)	NSP 27	Energy Star Label	AAX8022
13	Sub BTN V1	See Contrast table(2)			
14	B Lens R6	XAK3352			
15	Sub Panel	See Contrast table(2)			

(2) CONTRAST TABLE

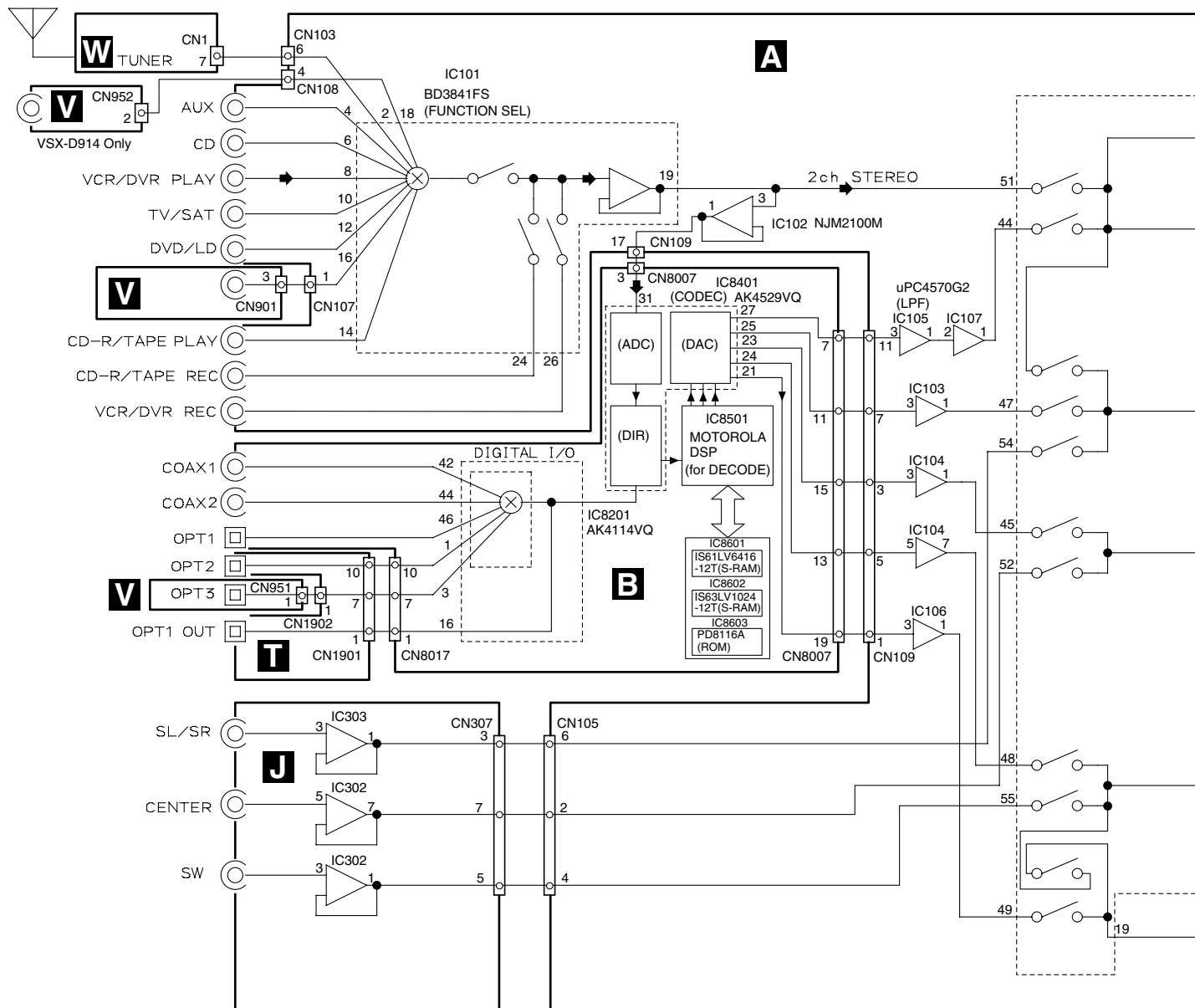
VSX-D914-K/KUXJICA, VSX-D814-K/KUXJICA and VSX-D814-S/KUXJICA are constructed the same except for the following:

Mark	NO	Description	VSX-D914-K /KUXJICA	VSX-D814-K /KUXJICA	VSX-D814-S /KUXJICA
	6	FRONT OPT & MIC Assy	XWZ3771	XWZ3770	XWZ3770
	8	JOG Knob V1K	XAB3038	XAB3038	Not used
	8	JOG Knob V1P	Not used	Not used	XAB3040
	9	VOL Knob V1K	XAB3039	XAB3039	Not used
	9	VOL Knob V1P	Not used	Not used	XAB3041
	10	Standby BTN V1K	XAD3173	XAD3173	Not used
	10	Standby BTN V1PL	Not used	Not used	XAD3191
	11	FUNC BTN V1K	XAD3174	XAD3174	Not used
	11	FUNC BTN V1S	Not used	Not used	XAD3180
	12	Enter BTN V1K	XAD3175	XAD3175	Not used
	12	Enter BTN V1S	Not used	Not used	XAD3181
	13	Sub BTN V1K	XAD3176	XAD3176	Not used
	13	Sub BTN V1S	Not used	Not used	XAD3177
	15	Sub Panel 914K/KU	XAK3423	Not used	Not used
	15	Sub Panel 814K/KU	Not used	XAK3424	Not used
	15	Sub Panel 814S/JP	Not used	Not used	XAK3436
	18	Pioneer Badge B	XAM3006	XAM3006	VAM1129
	20	FRT Panel 914K/KU	XMB3136	Not used	Not used
	20	FRT Panel 814K/KU	Not used	XMB3137	Not used
	20	FRT Panel 814S/KU	Not used	Not used	XMB3144
	24	J32 5P F.F.C/30V	XDD3125	Not used	Not used

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

A



B

C

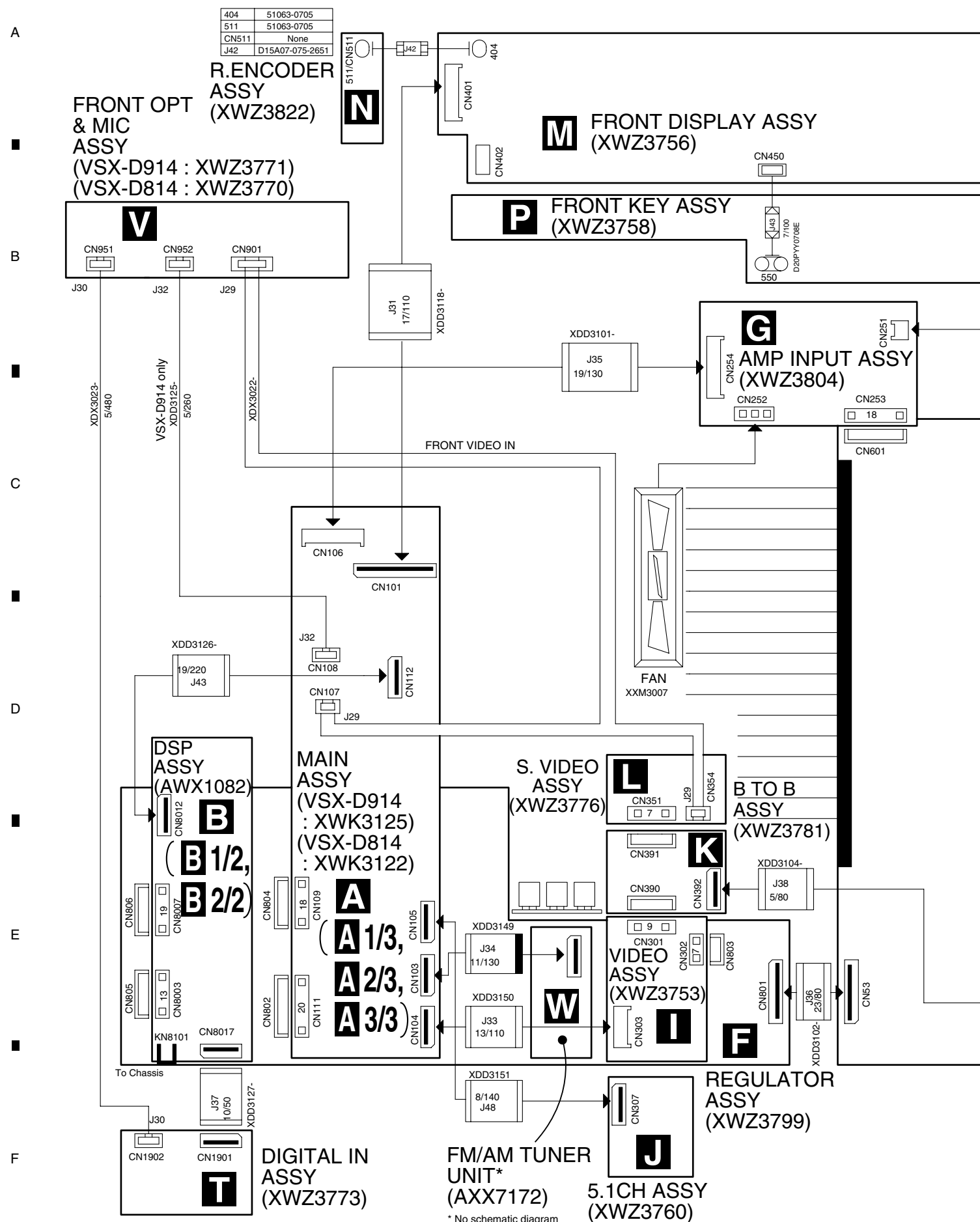
D

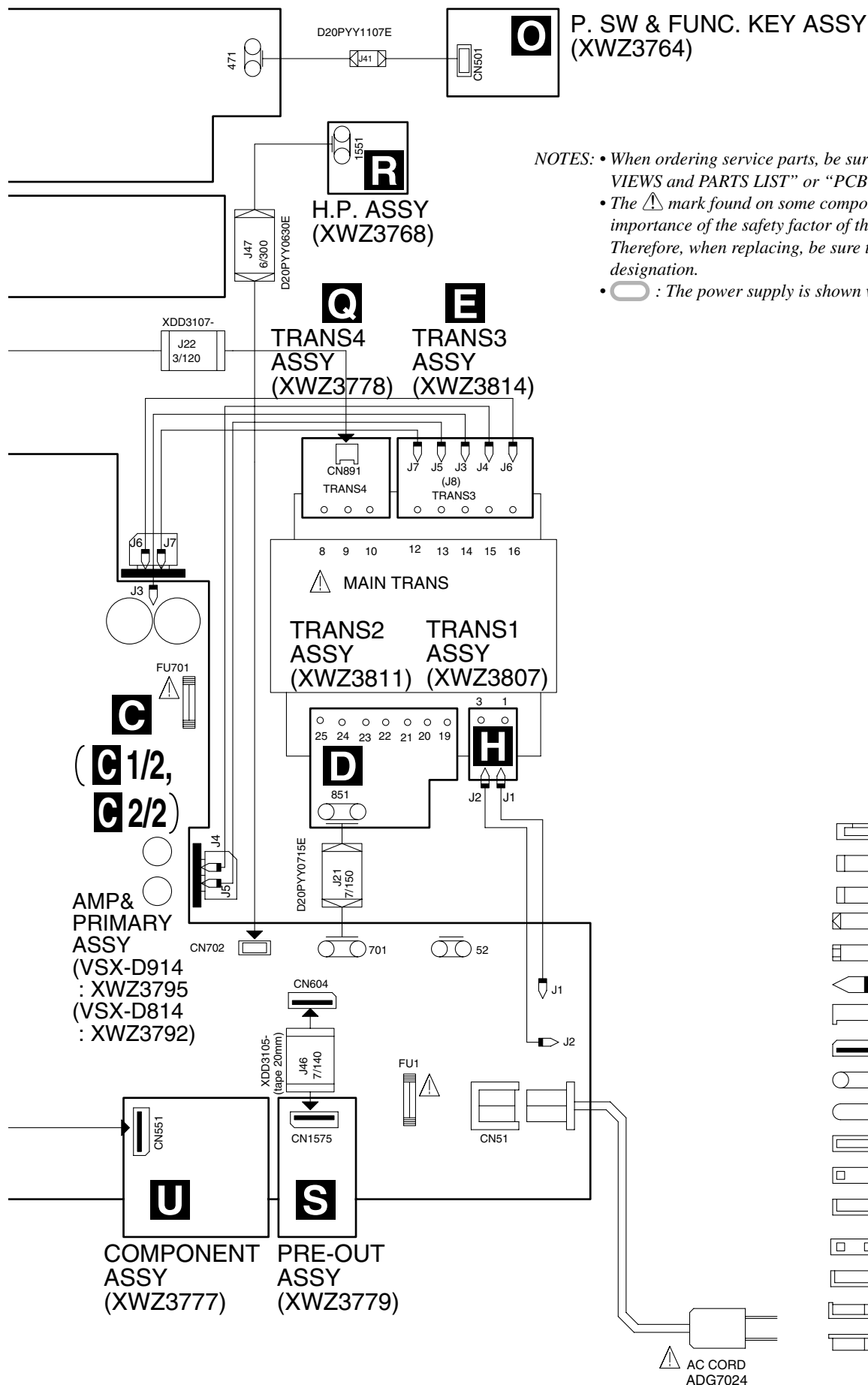
E

F



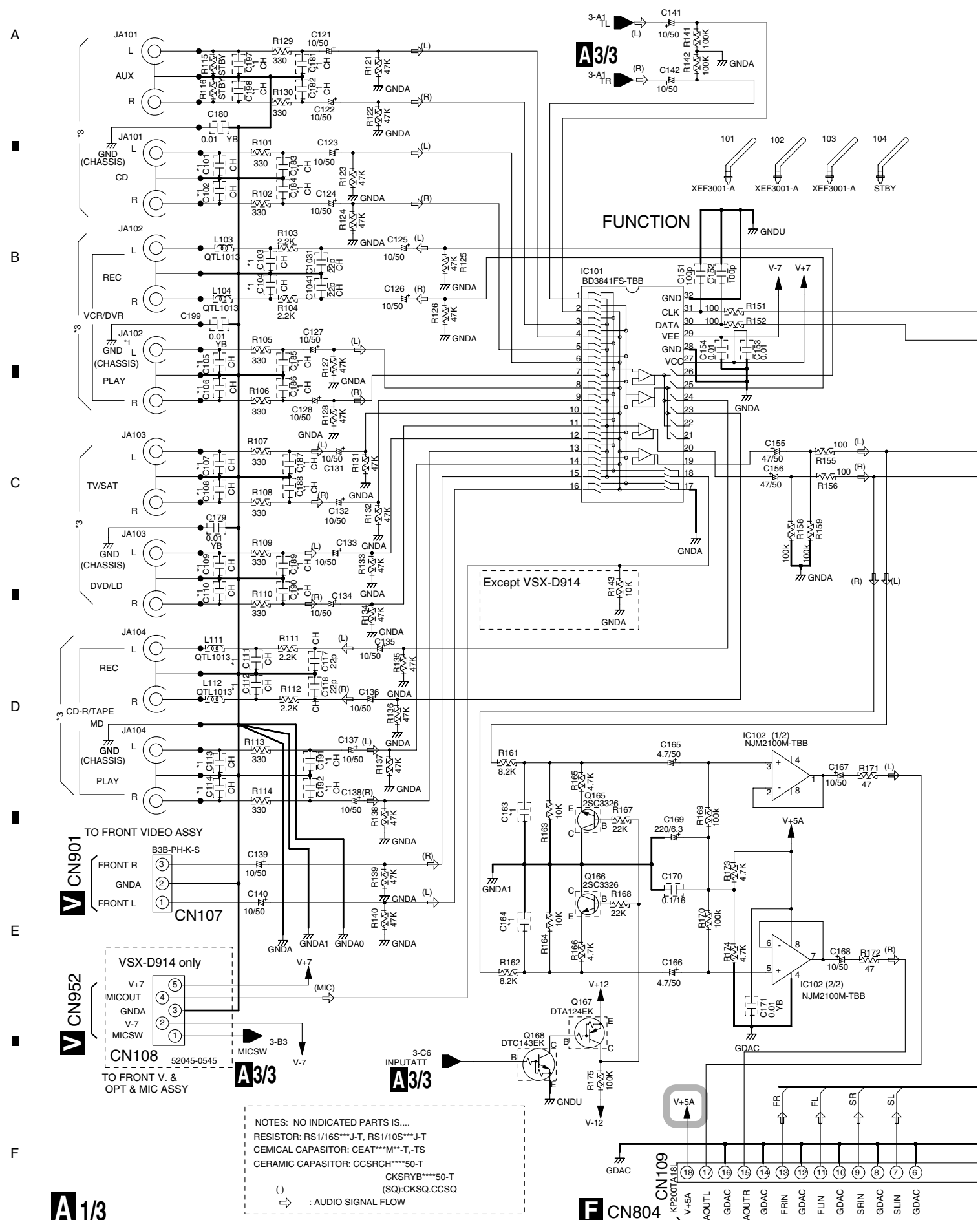
3.2 OVERALL WIRING CONNECTION DIAGRAM



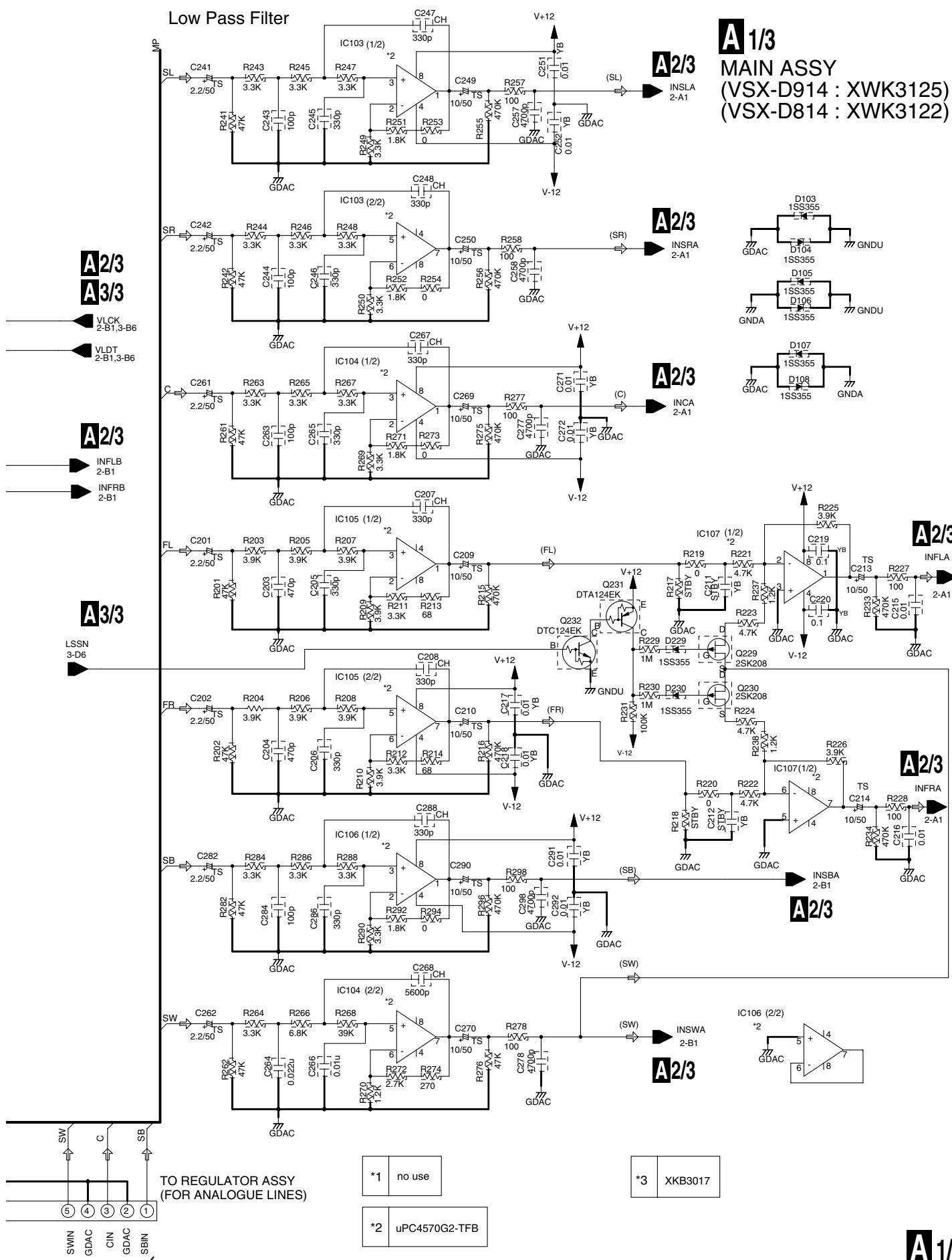


- B*B-PH-K-S PH CONNECTOR
- 1.25mm FFC
- 1.25mm REVERSE FFC
- 2.0mm FLAT CABLE
- 1.5mm FLAT CABLE
- BOARD IN
- 1.25mm FFC CONNECTOR(L)
- 1.25mm FFC CONNECTOR
- 2.0mm CABLE HOLDER
- 1.5mm CABLE HOLDER
- 2.0mm WIRE TRAP
- KP200TA**L 2.0mm BOARD to BOARD
- KM200TA** 2.0mm BOARD to BOARD
- AKP7070, AKP7073 1.25mm BOARD to BOARD
- AKP7059, AKP7062 1.25mm BOARD to BOARD
- AC CODE SOCKET
- AC CODE CONNECTOR

3.3 MAIN ASSY (1/3)



Low Pass Filter



3.4 MAIN ASSY (2/3)

A 2/3 MAIN ASSY
(VSX-D914 : XWK3125)
(VSX-D814 : XWK3122)

A1/3

A1/3
A3/3

A3/3

J CN307

TO 5.1 INPUT ASSY
CN105
52044-0845

6 CH E-VOL

IC108
BD3813KS_TBB

**2 CH E-VOL
(SB CH)**

IC109
BD3812F-TBB

NOTE

1.RESISTORS

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

2.CAPACITORS

Unit: p-pF or μ F unless otherwise noted.
Ratings: Capacity(μ F)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.

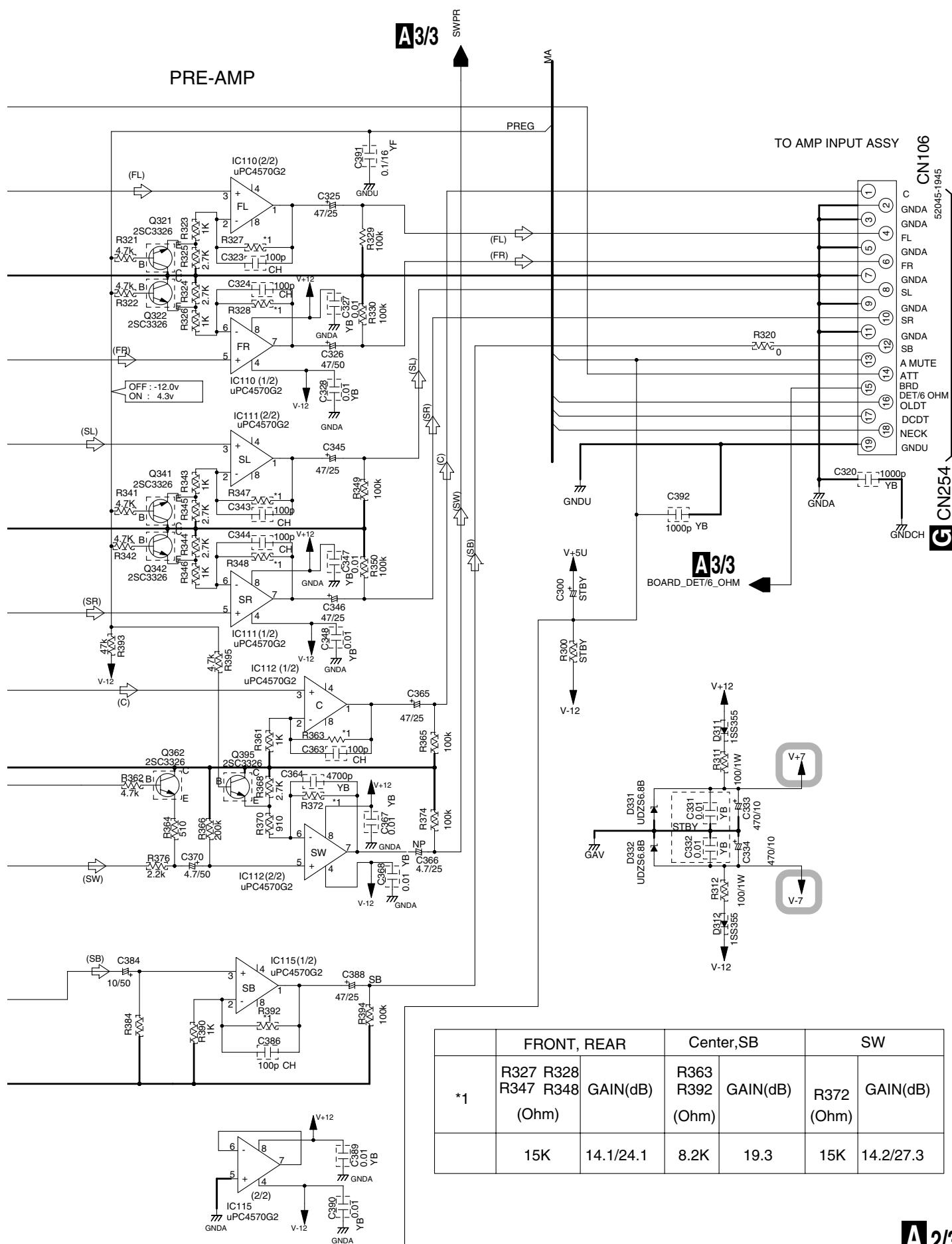
JA:CEJA

⇒ : AUDIO SIGNAL FLOW

VSX-D914-K

A3/3

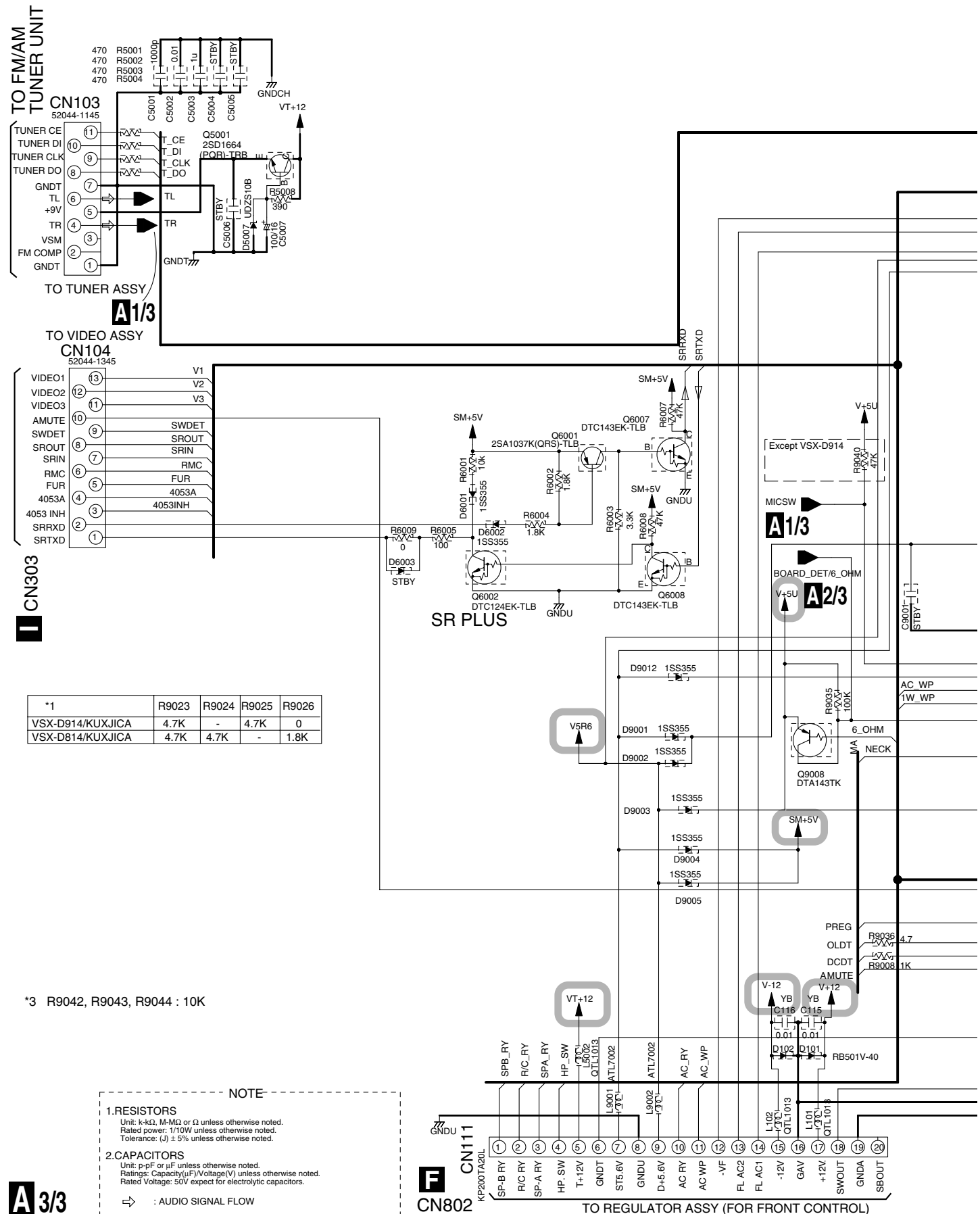
PRE-AMP

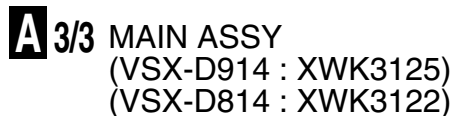


	FRONT, REAR		Center, SB		SW	
*1	R327 R328 R347 R348 (Ohm)	GAIN(dB)	R363 R392 (Ohm)	GAIN(dB)	R372 (Ohm)	GAIN(dB)
	15K	14.1/24.1	8.2K	19.3	15K	14.2/27.3

A2/3

3.5 MAIN ASSY (3/3)





A 3/3

3.6 DSP ASSY (1/2)

A

B

C

D

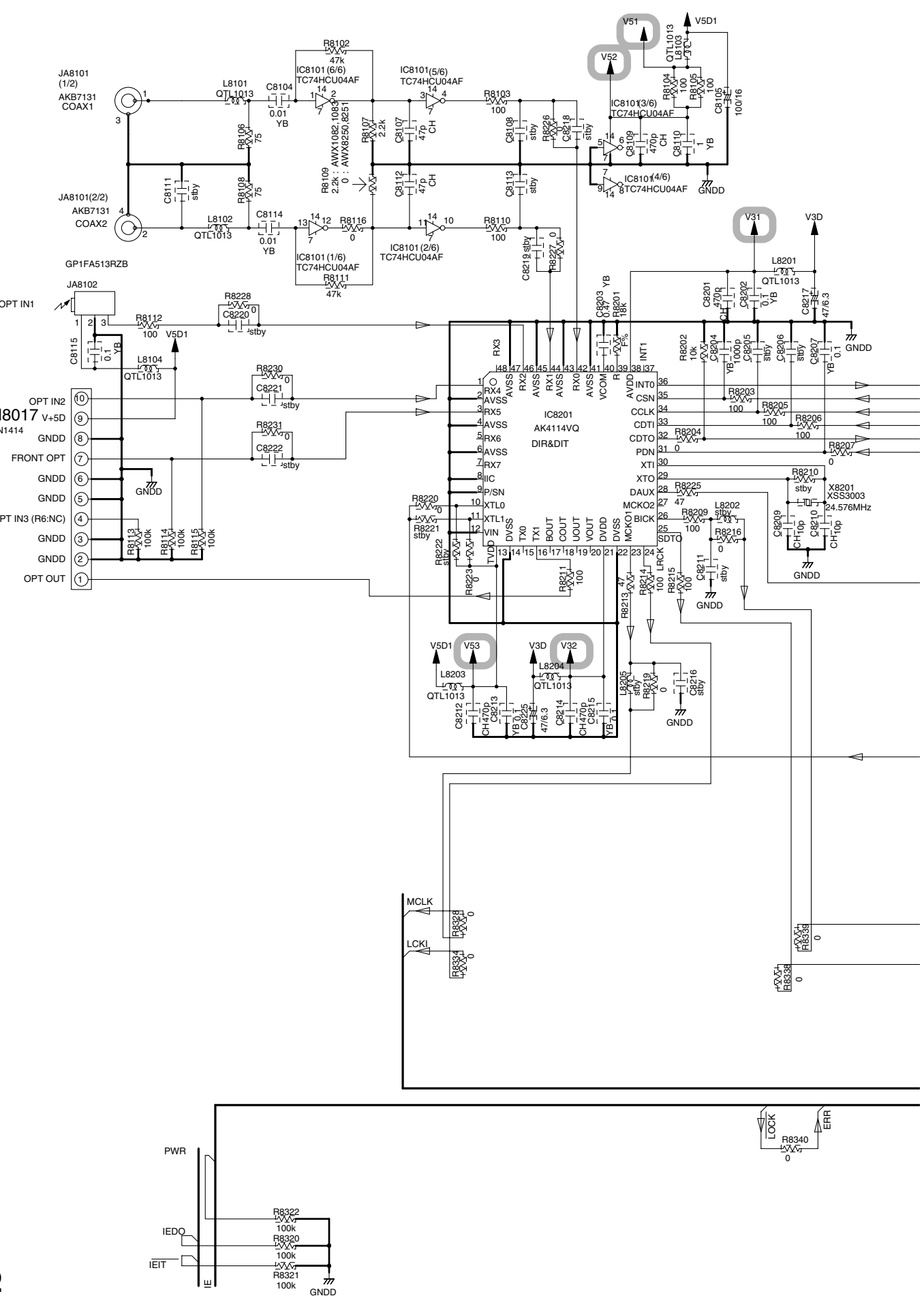
E

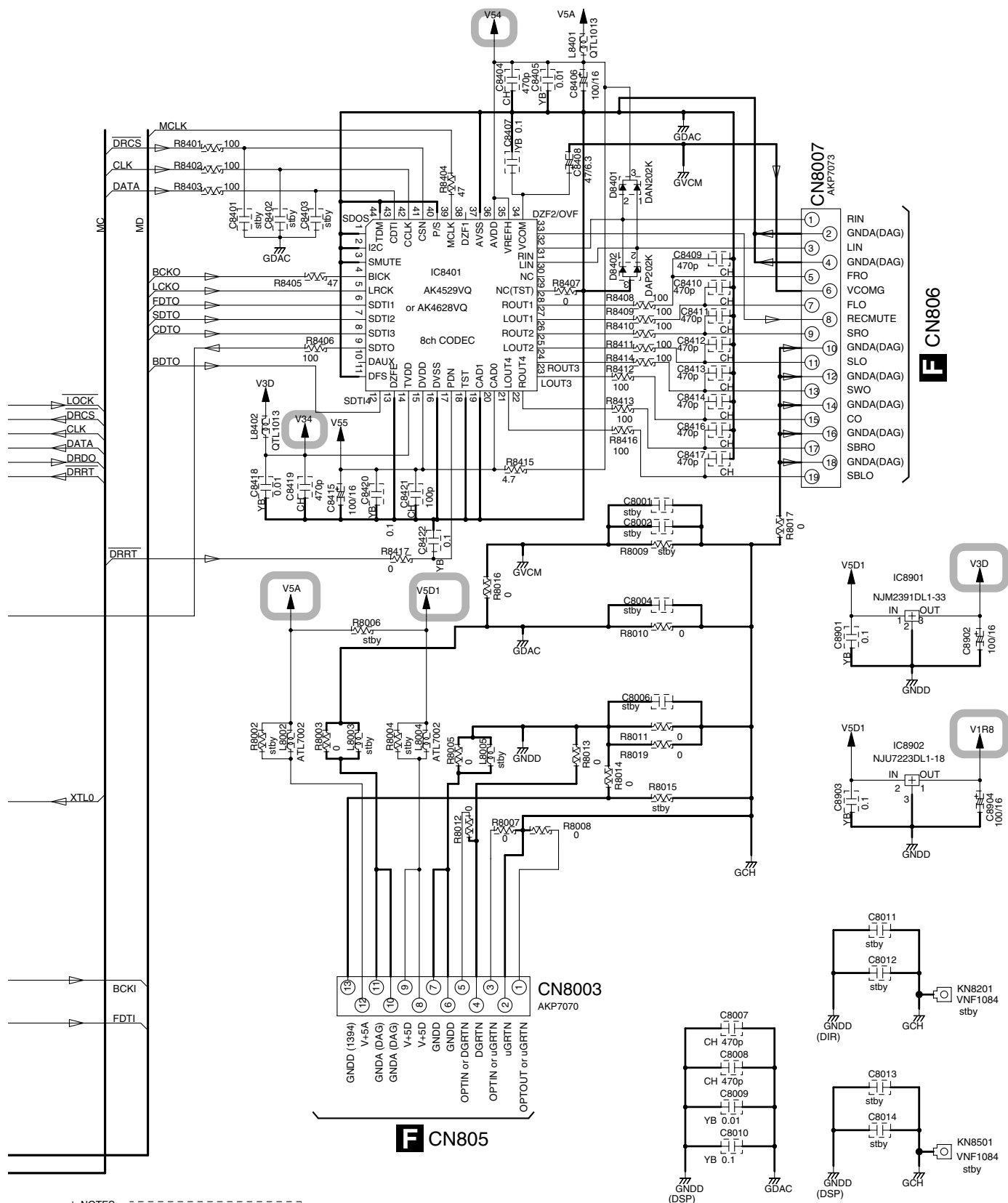
F

T CN1901

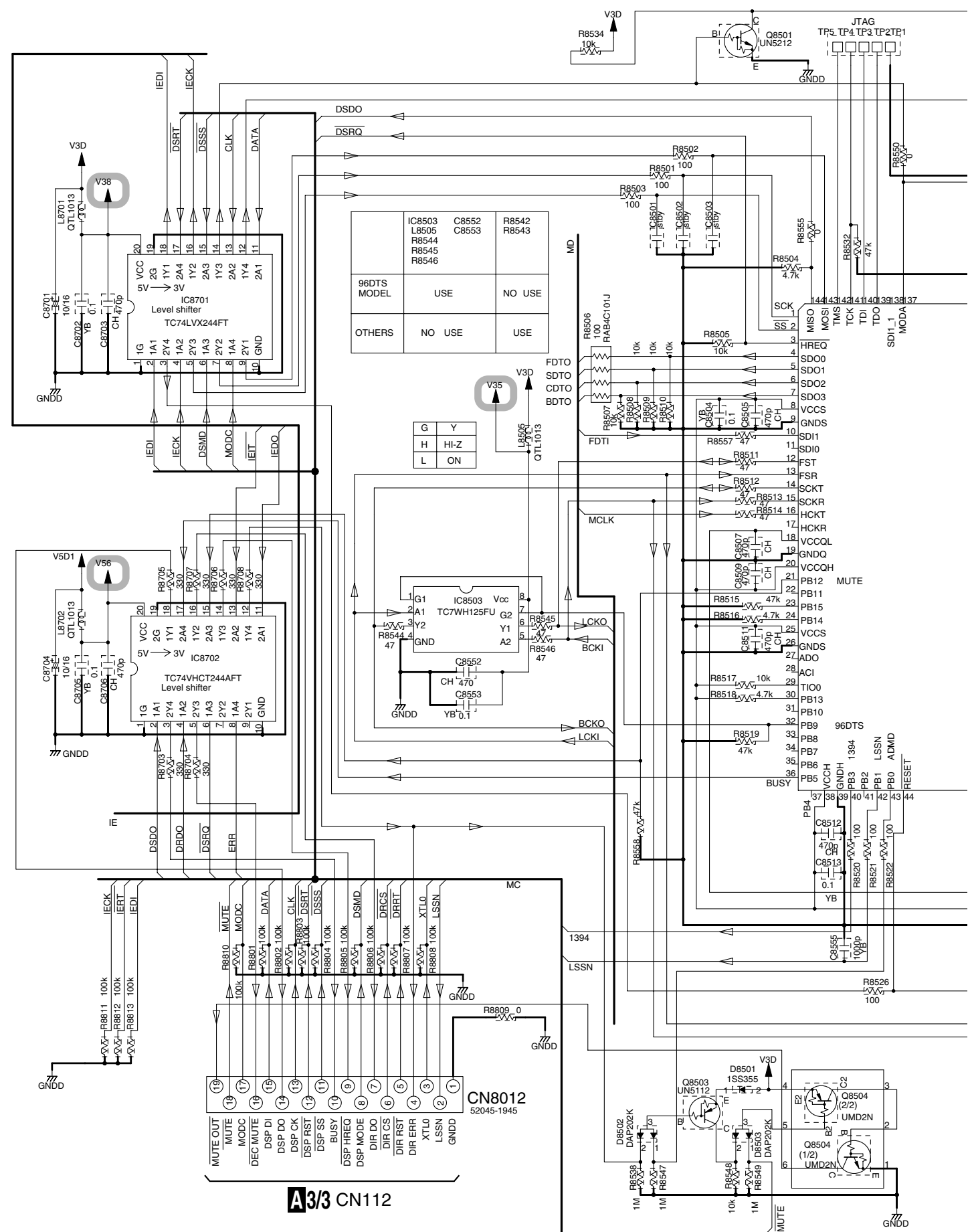
CN8017 VKN1414

B 1/2





3.7 DSP ASSY (2/2)



3.8 AMP & PRIMARY (1/2), TRANS2 and TRANS3 ASSYS

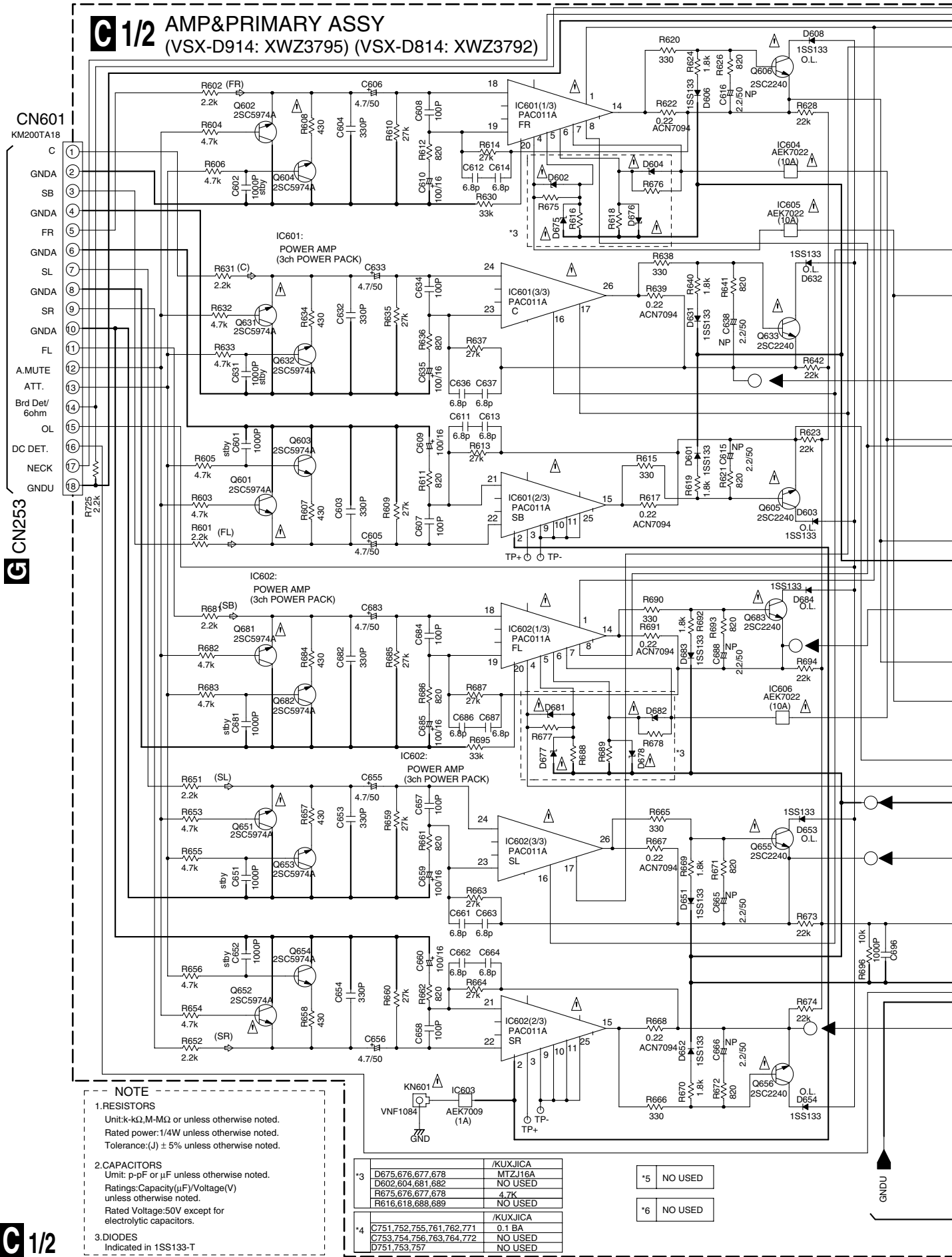
A

B

D

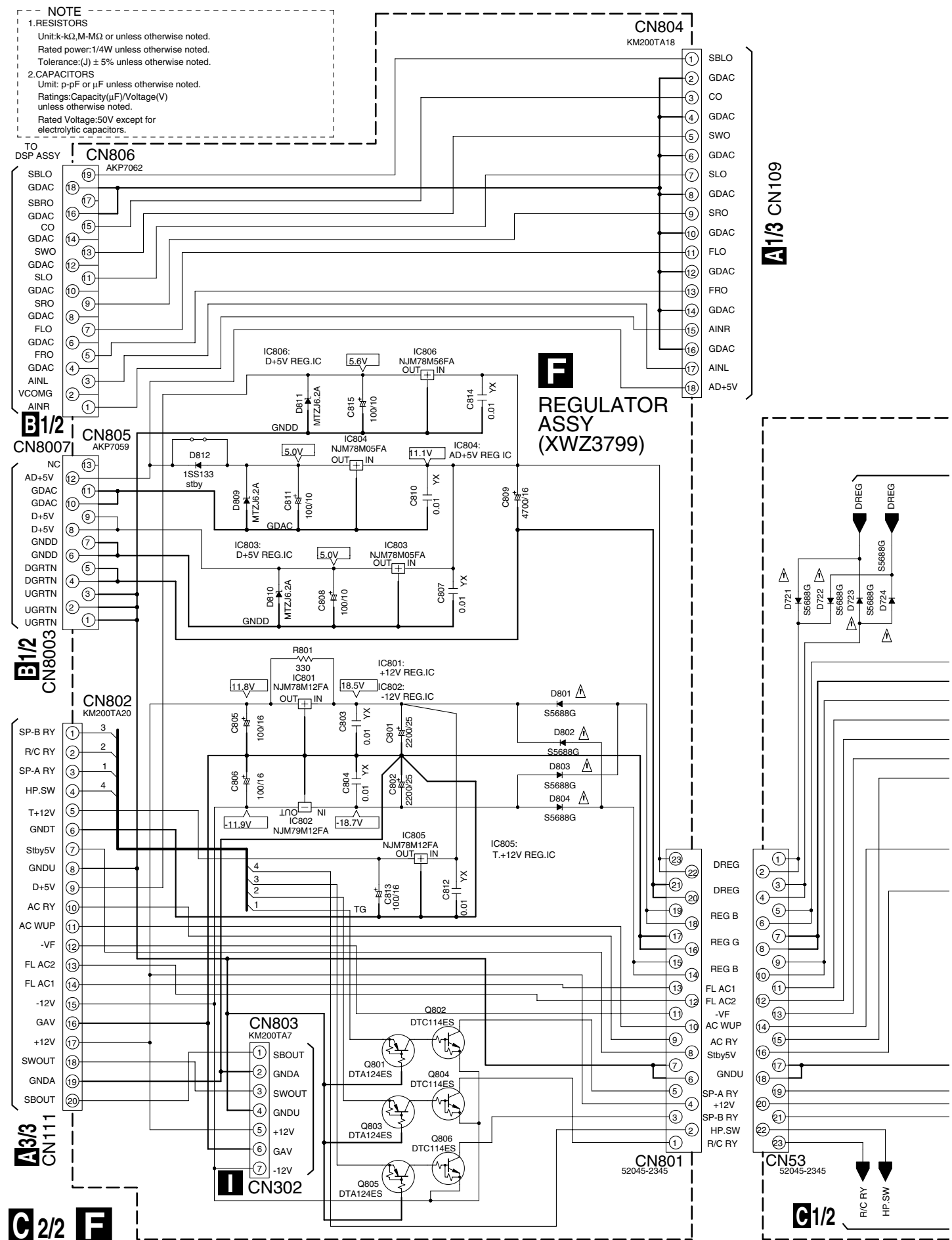
E

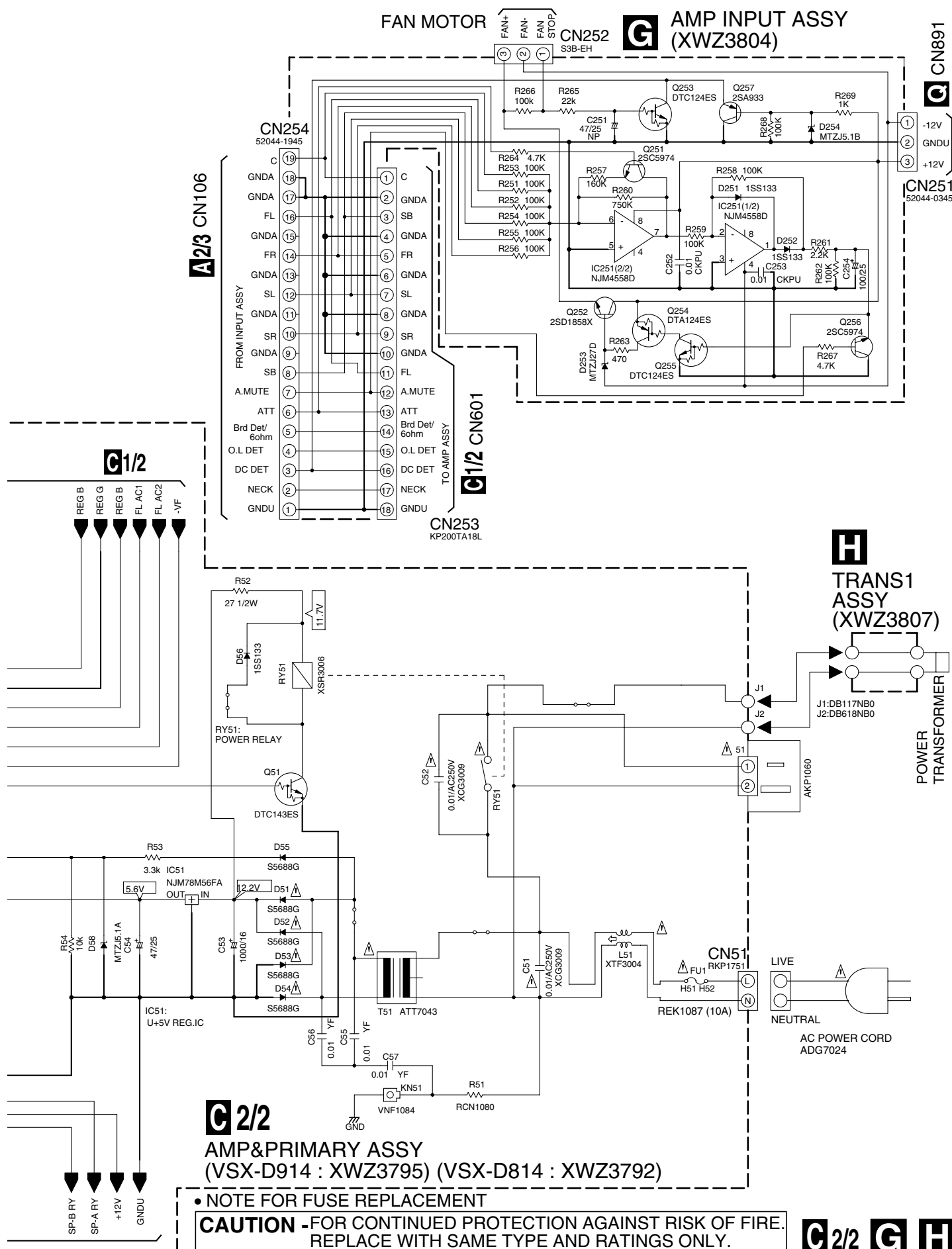
F





3.9 AMP&PRIMARY(1/2), REGULATOR, AMP INPUT and TRANS1 ASSYS





3.10 VIDEO, 5.1CH, B TO B and S. VIDEO ASSYS

A

B

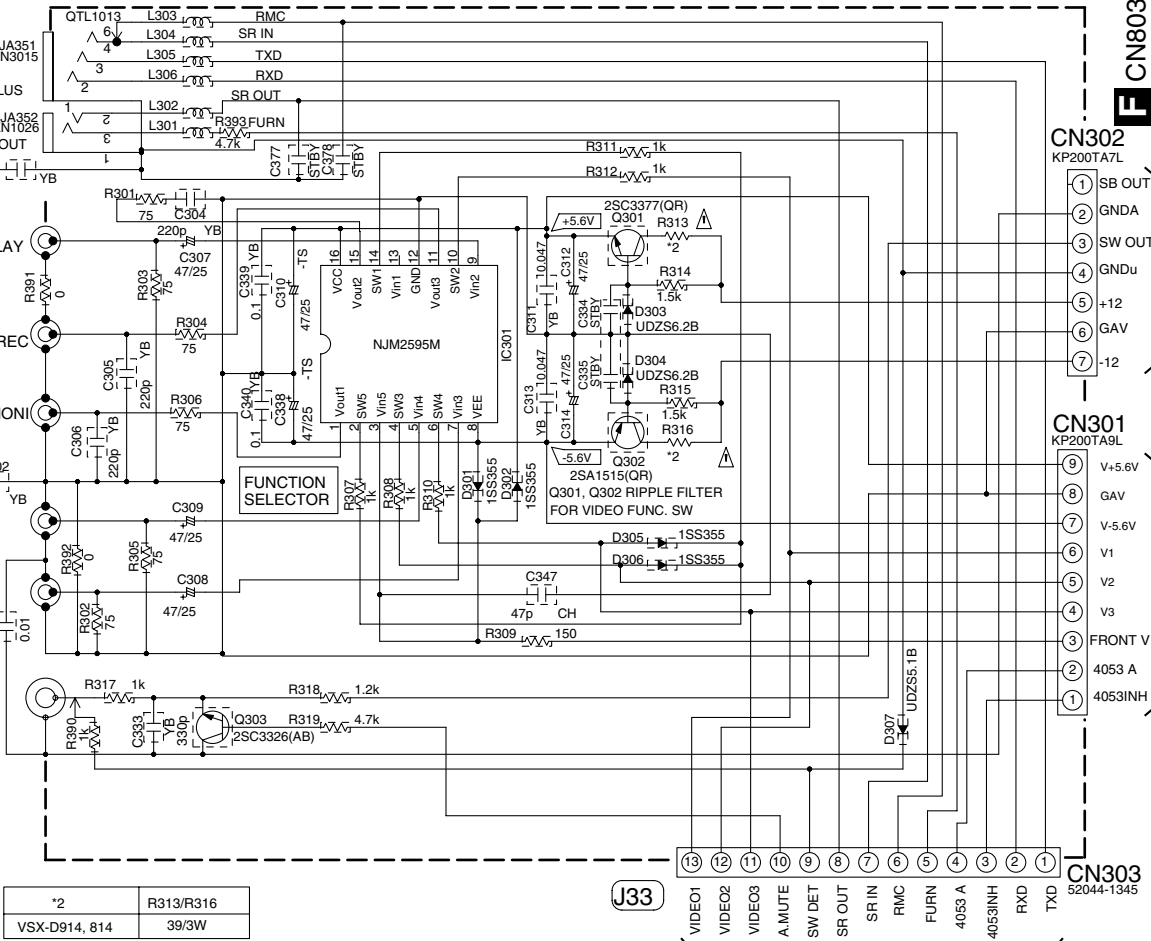
C

D

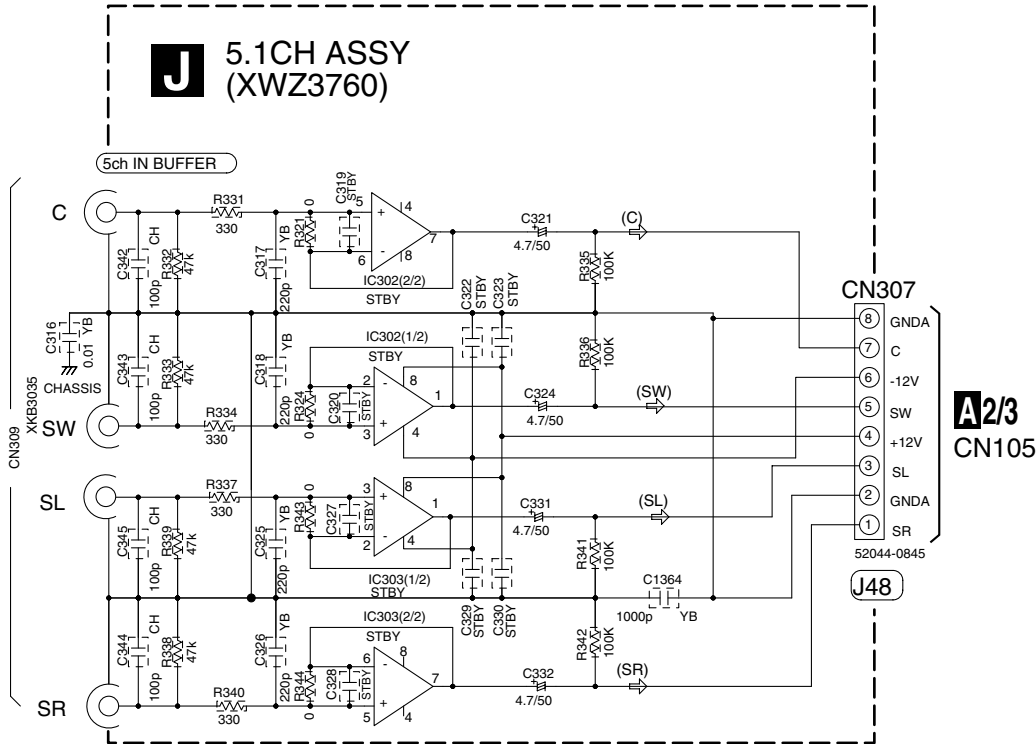
E

F

VIDEO ASSY (XWZ3753)



5.1CH ASSY (XWZ3760)



K B TO B ASSY (XWZ3781)

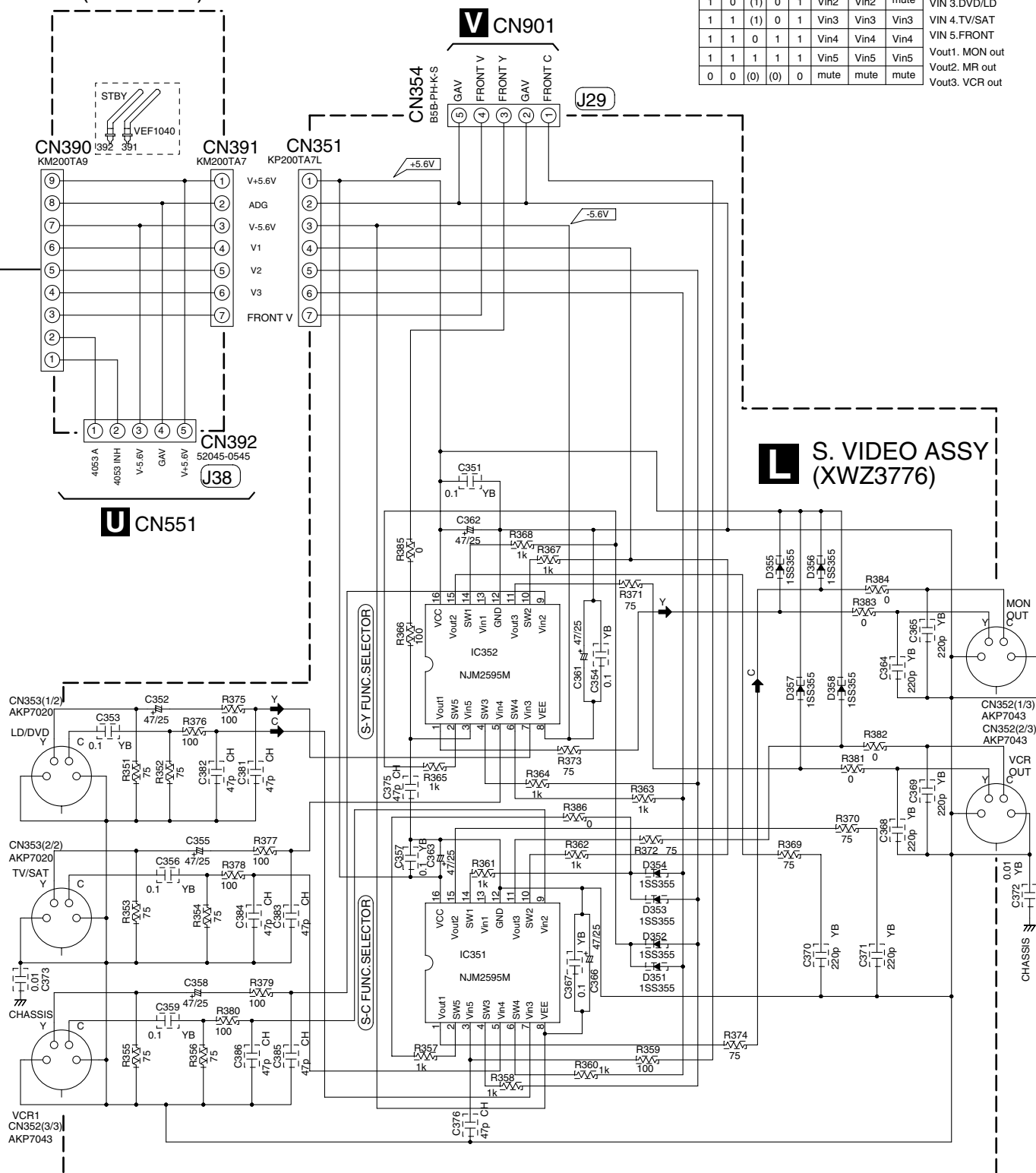
NOTE

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

2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.

NJM2296D control port status

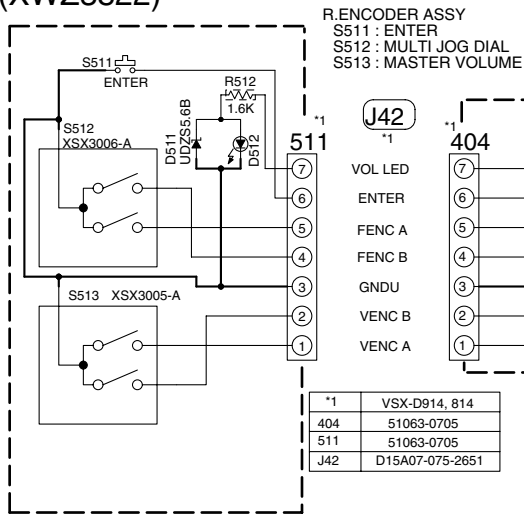
SW1	SW2	SW3	SW4	SW5	Vout1	Vout2	Vout3	
1	0	(1)	0	1	Vin2	Vin2	mute	VIN 2.VCR
1	1	(1)	0	1	Vin3	Vin3	Vin3	VIN 3.DVD/LD
1	1	0	1	1	Vin4	Vin4	Vin4	VIN 4.TV/SAT
1	1	1	1	1	Vin5	Vin5	Vin5	VIN 5.FRONT
0	0	(0)	(0)	0	mute	mute	mute	Vout1. MON out
								Vout2. MR out
								Vout3. VCR out



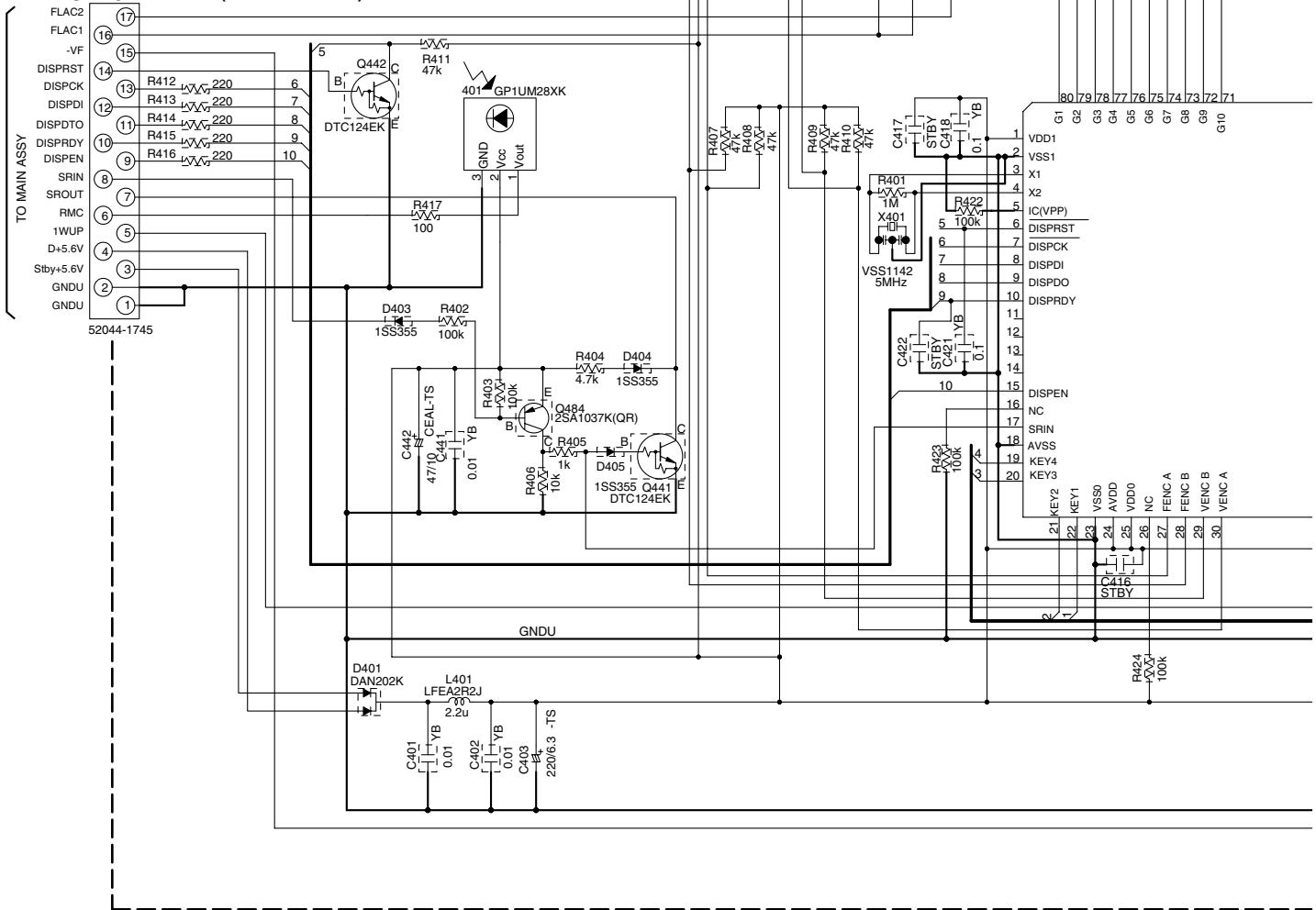
→ VIDEO SIGNAL FLOW
→ AUDIO SIGNAL FLOW

3.11 FRONT DISPLAY, R. ENCODER, P. SW&FUNC KEY and F. KEY ASSYS

R.ENCODER ASSY (XWZ3822)



FRONT DISPLAY ASSY (XWZ3756)





F



4.2 TRANS2, TRANS3, TRANS1 and TRANS4 ASSYS

SIDE A

SIDE B

Q TRANS4 ASSY

E TRANS3 ASSY

G CN251

C J6 J4 J3 J5 J7

(XNP3077-B)

SIDE A

(XNP3074-B)

SIDE A

(XNP3074-B)

SIDE B

POWER TRANSFORMER

D TRANS2 ASSY

TRANS

□ XWZ3807

(XNP3077-B)

SIDE A

J1 BROWN

J2 BLUE

PRIMARY

C J1 J2

SIDE A

H TRANS1 ASSY

(XNP3077-B)

SIDE A

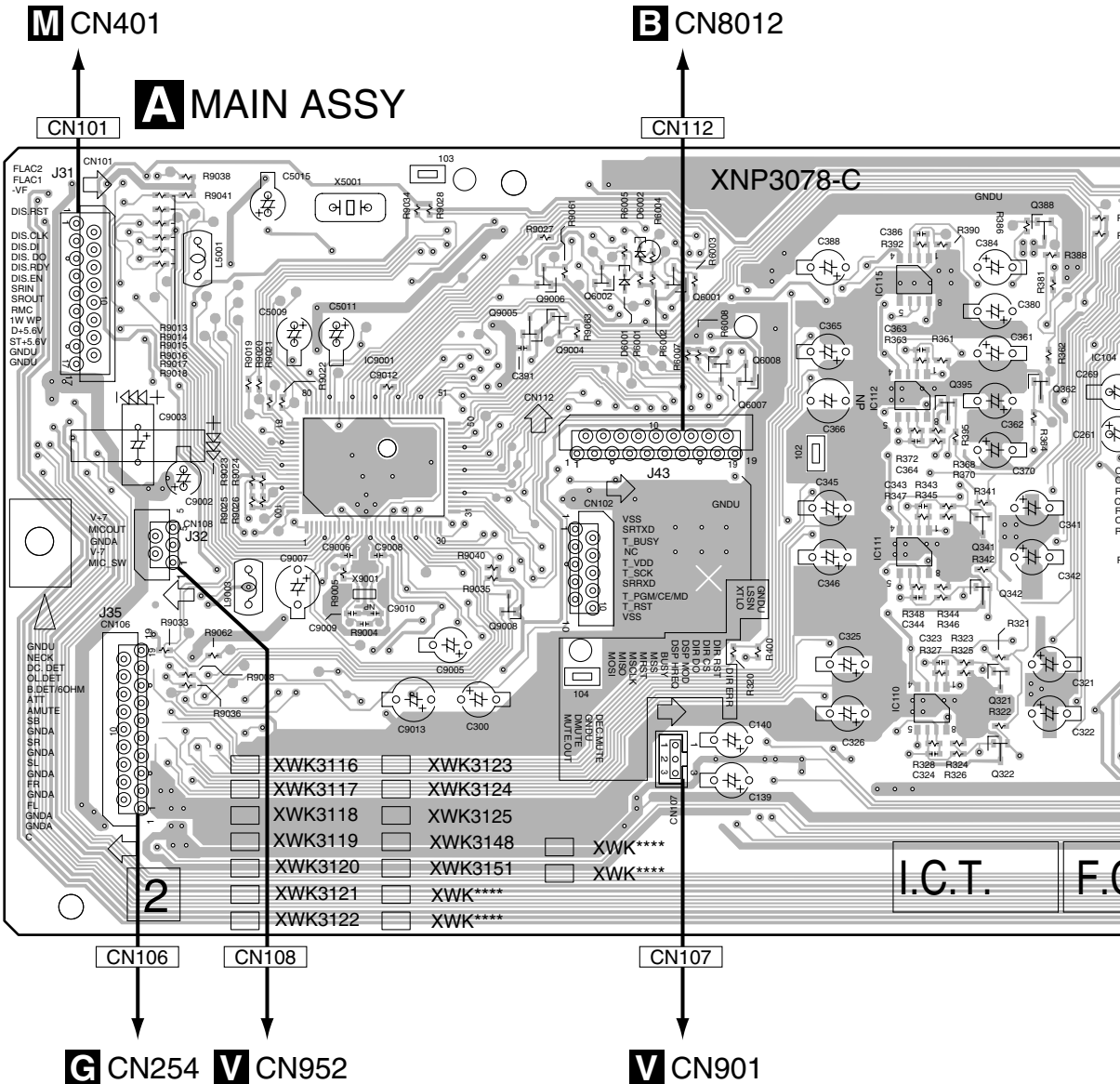
C 701

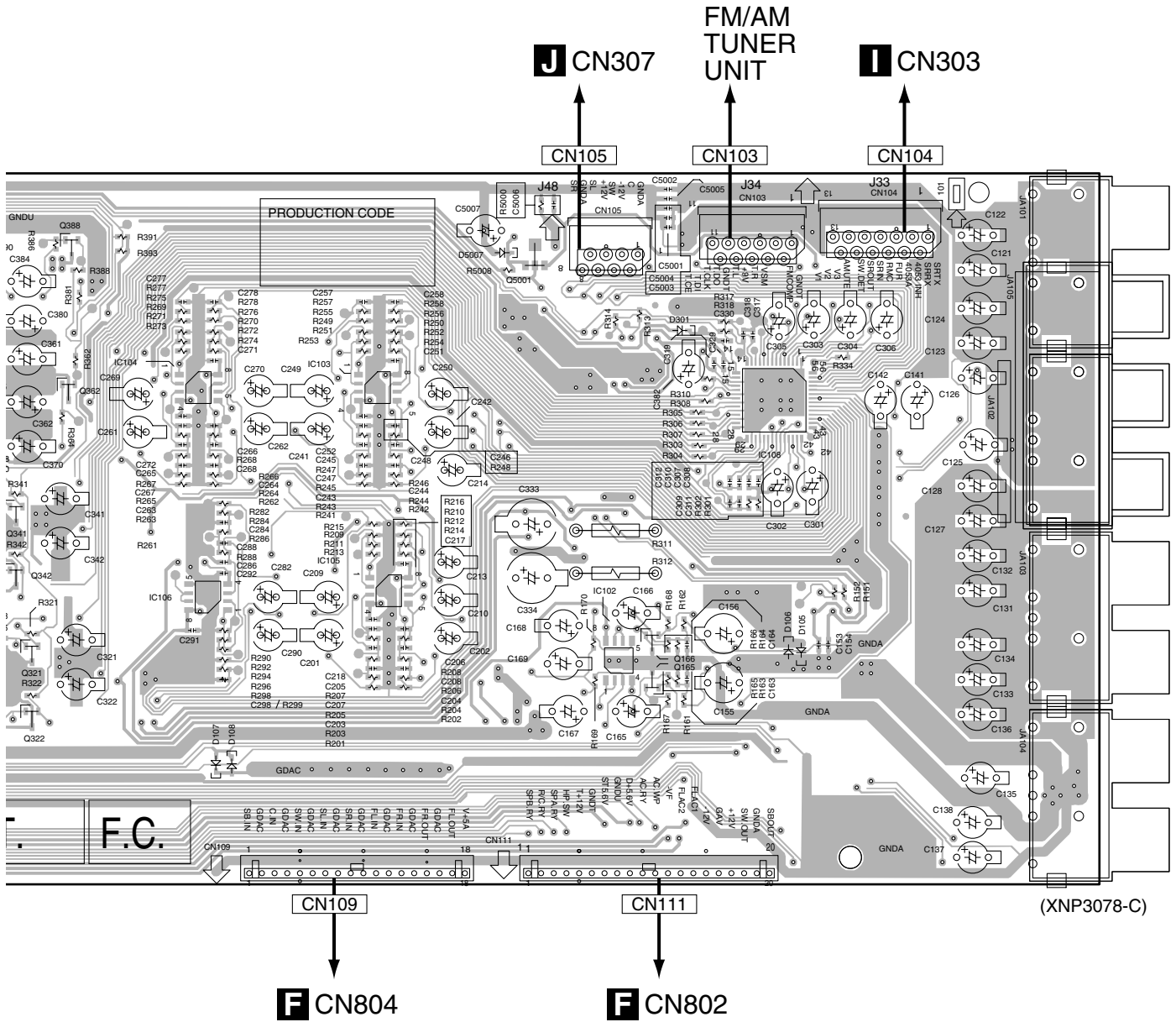
D E H Q

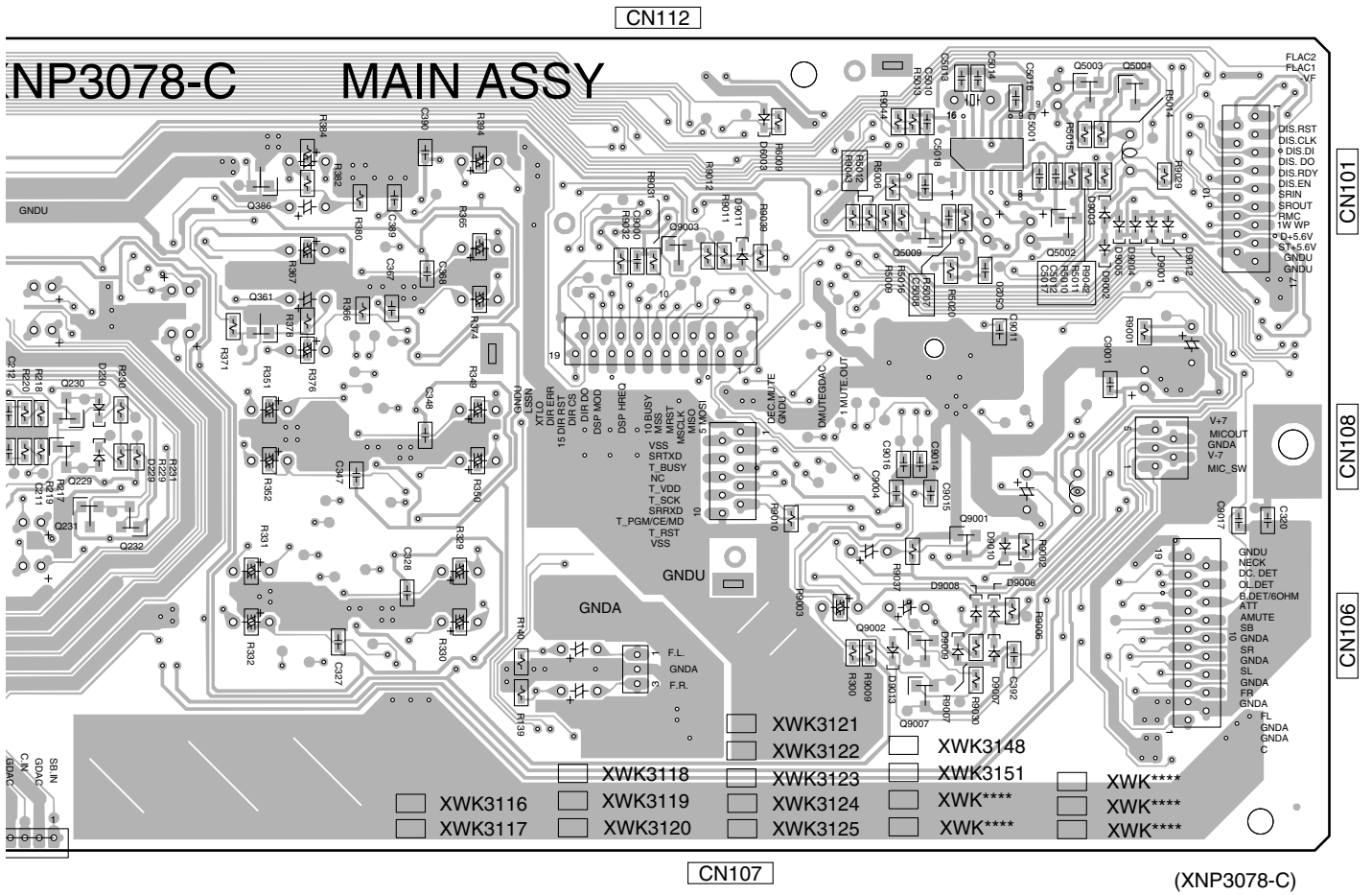
D E H Q

4.3 MAIN ASSY

SIDE A







(XNP3078-C)

CN107

4.4 DSP ASSY

SIDE A

DSP ASSY

SIDE A

CN1901

CN8017

CN8003

CN8007

CN8012

CN112

(ANP2022-B)

Q8341

IC8502

IC8201

Q8504

IC8702

IC8603

IC8301

IC8601

IC8501

Q8401

IC8701

VSX-D914-K

4.5 AMP & PRIMARY and AMP INPUT ASSYS

SIDE A

A

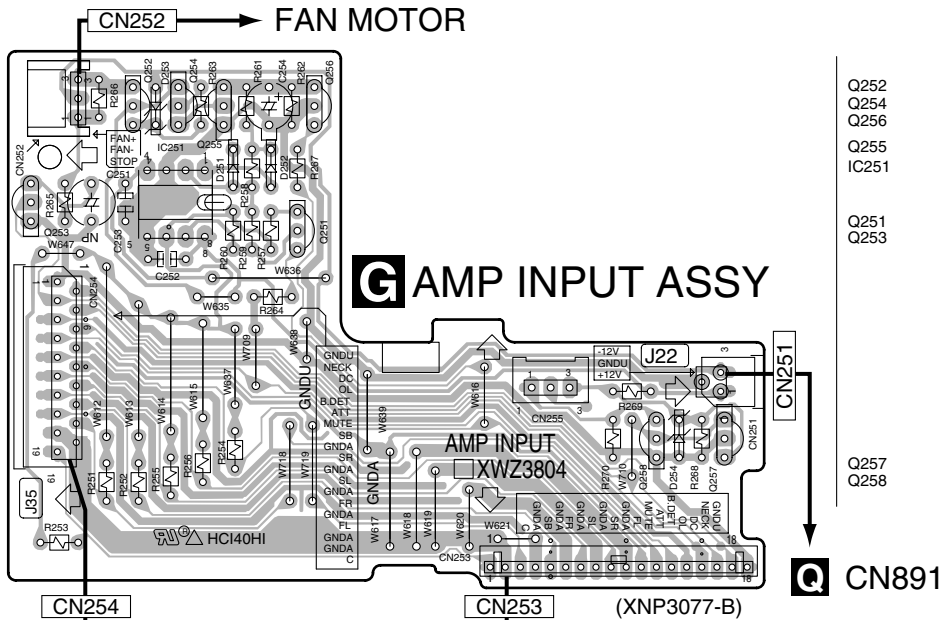
B

C

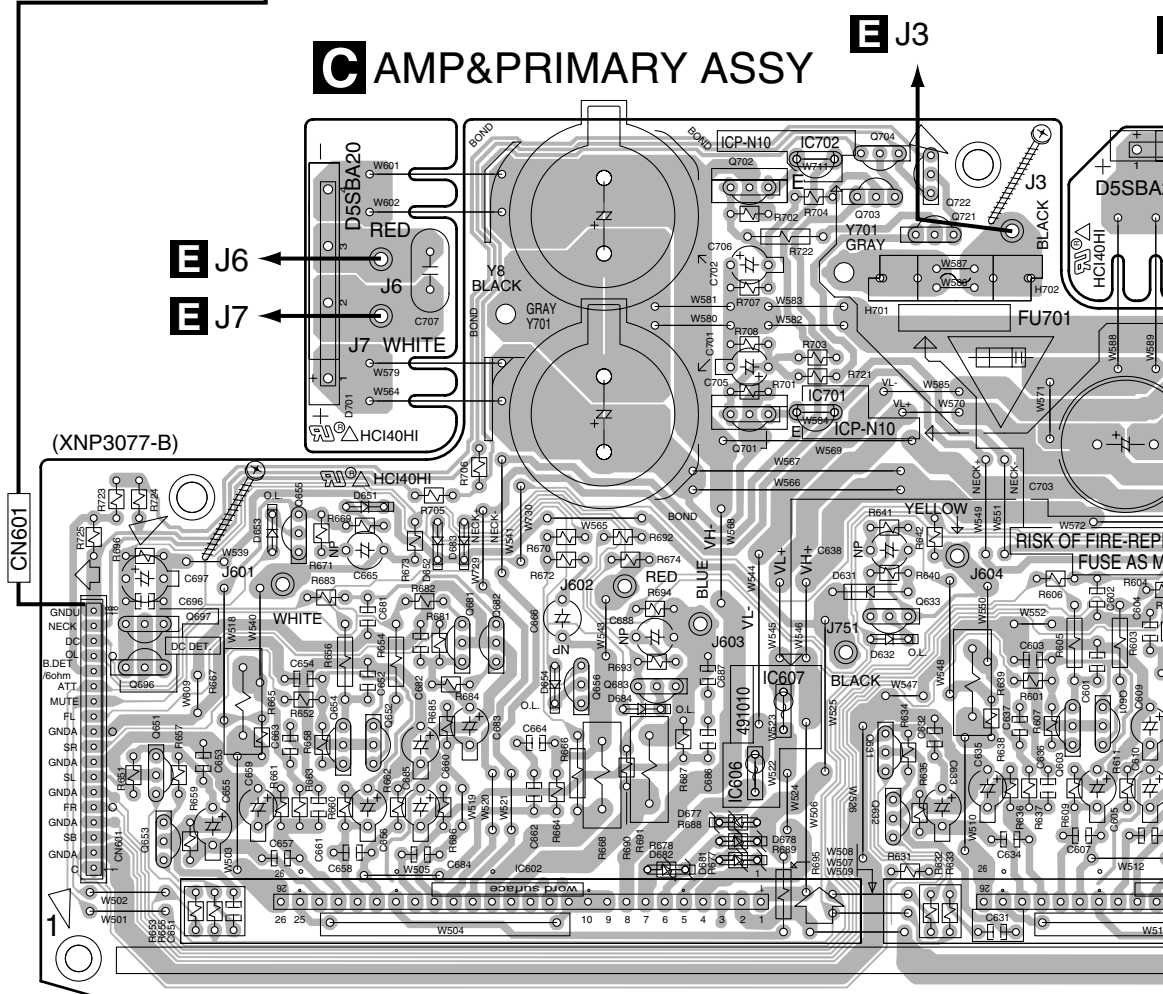
D

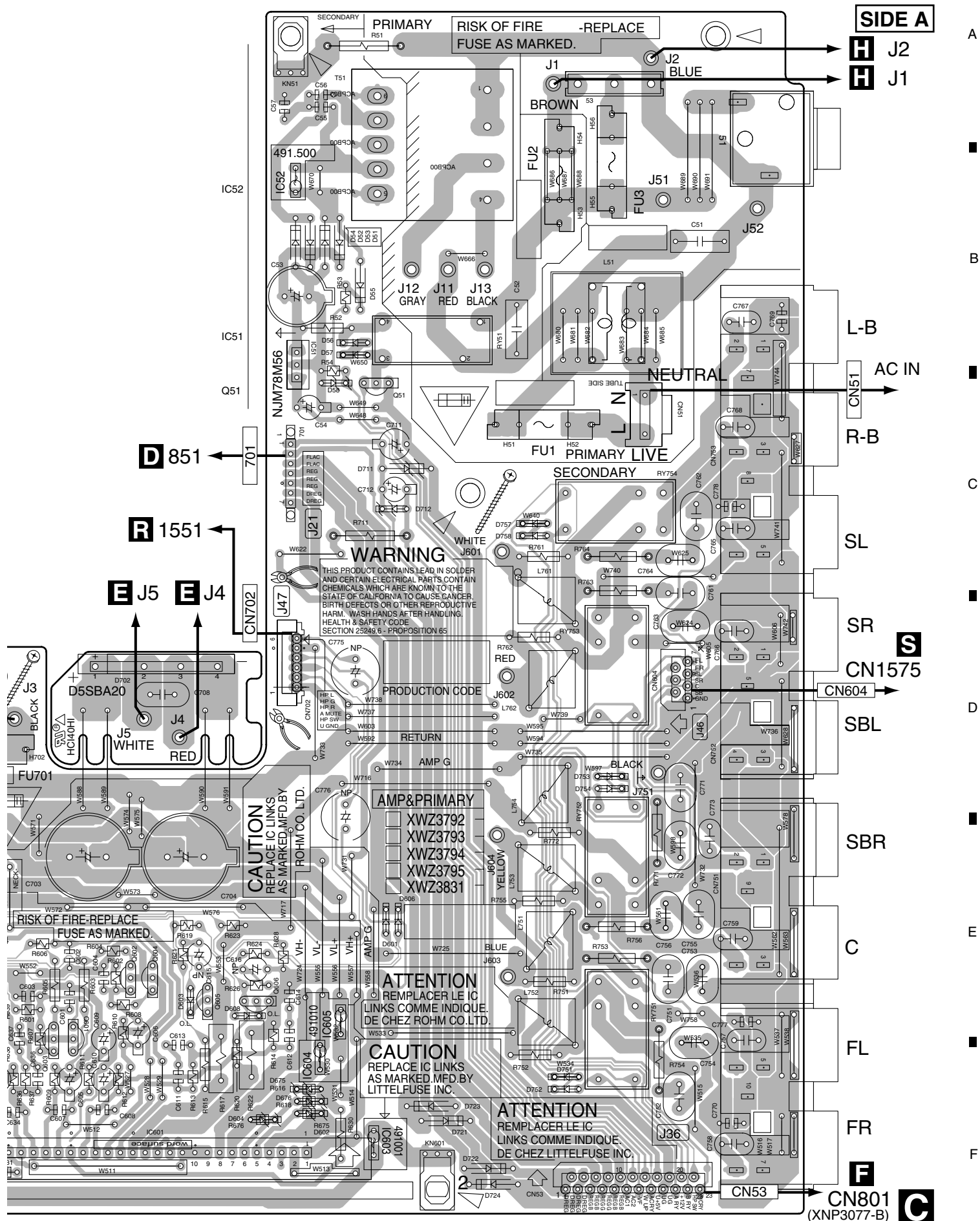
E

F



C AMP&PRIMARY ASSY

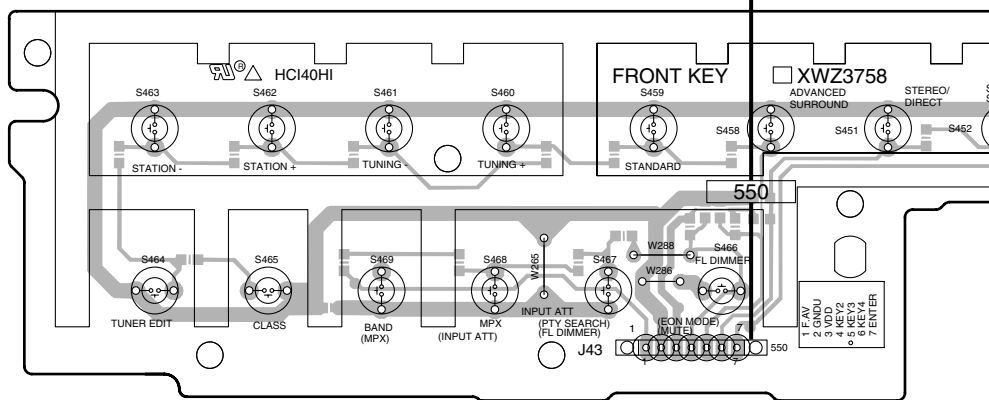
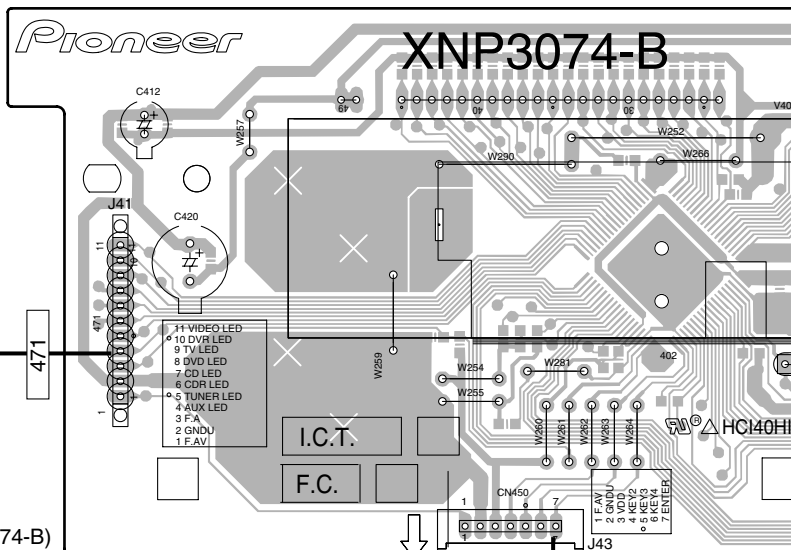




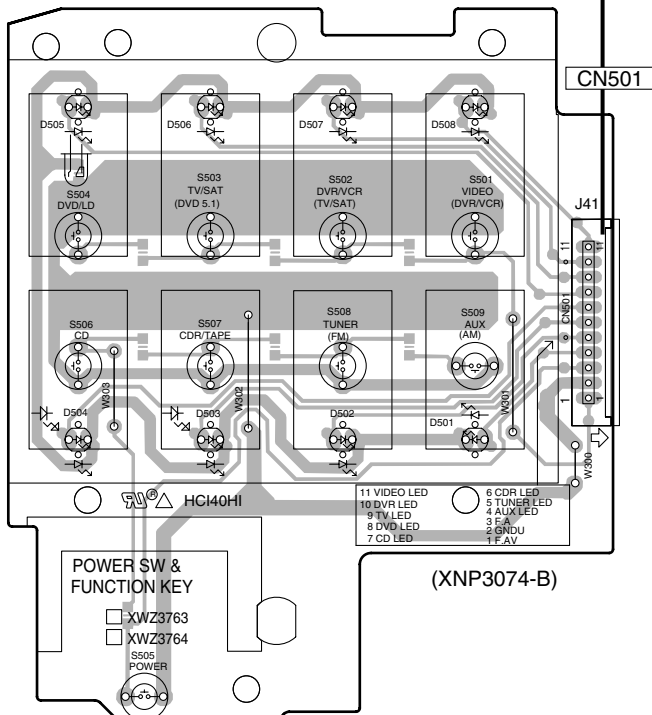
4.6 F. DISPLAY, R. ENCODER, P. SW & FUNC KEY, H. P. and F. KEY ASSYS

SIDE A

M FRONT DISPLAY ASSY

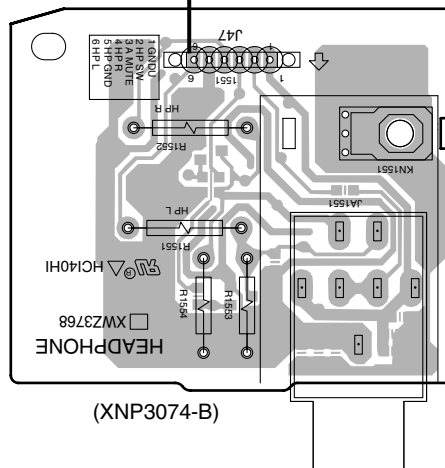


O P. SW & FUNC. KEY ASSY



C CN702

R H.P ASSY



M O P R

SIDE B

404

CN401

CN402

FRONT DISPLAY

☐ XWZ3755
☐ XWZ3756

(XNP3074-B)

P FRONT KEY ASSY

511

N R.ENCODER ASSY

(XNP3074-B)

M N P

VSX-D914-K

F

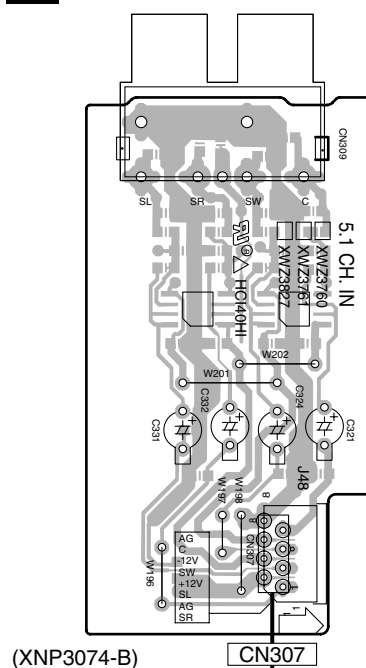
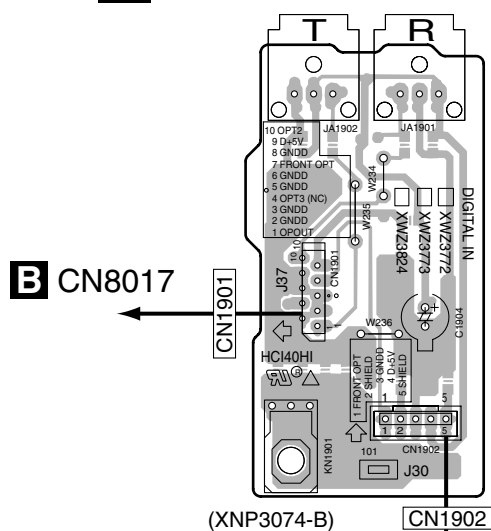
4.7 B TO B, DIGITAL IN, VIDEO and 5.1CH ASSYS

SIDE A

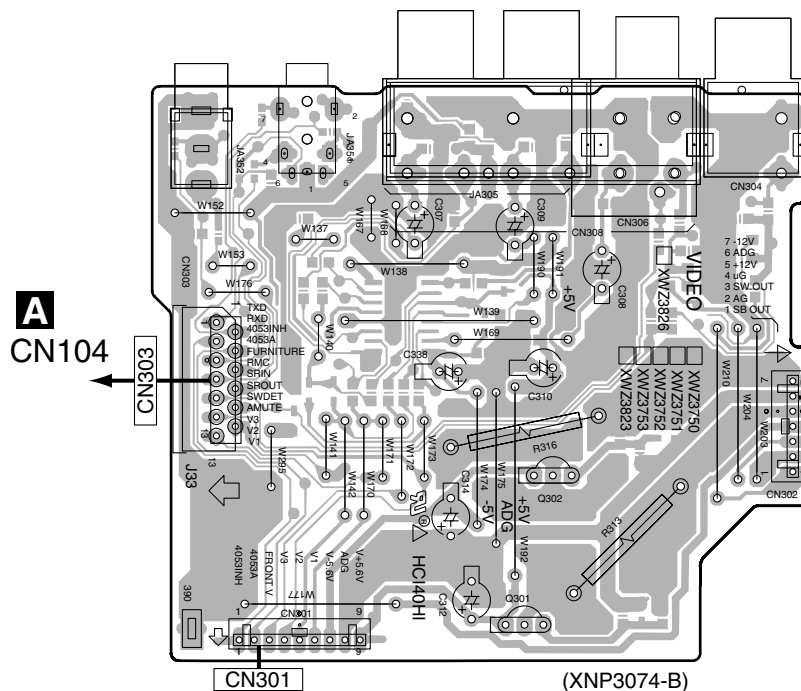
SIDE A

T DIGITAL IN ASSY

J 5.1CH ASSY

**V** CN951

VIDEO ASSY

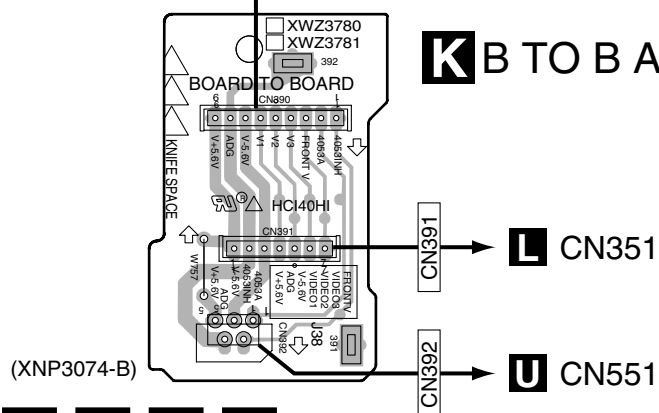
**F** CN803

CN302

Q302

Q301

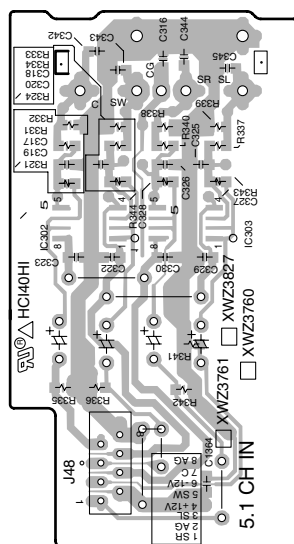
K B TO B ASSY



VSX-D914-K

SIDE B**SIDE B**

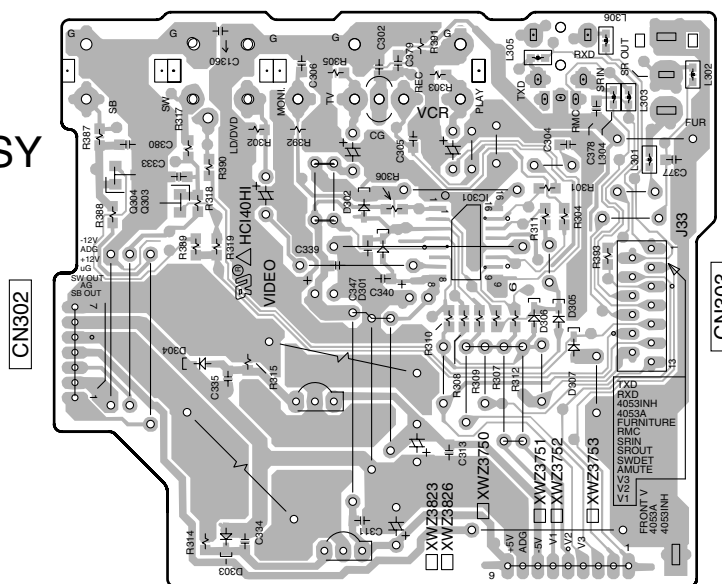
J 5.1CH ASSY



IC302
IC303

CN307 (XNP3074-B)

VIDEO ASSY



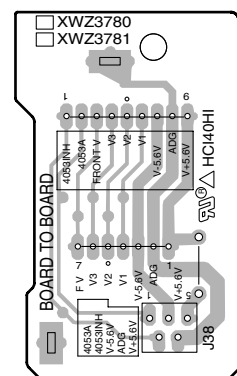
Q304
Q303
IC301

(XNP3074-B)

CN301

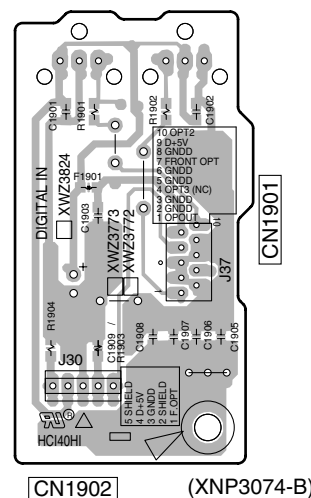
CN390

K B TO B ASSY



CN392

(XNP3074-B)

T DIGITAL IN ASSY

CN1902 (XNP3074-B)

5. ELECTRICAL 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 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω $\rightarrow$ 56 $\times 10^1$ $\rightarrow$ 561 RD1/4PU $\overline{561}$ J

47k Ω $\rightarrow$ 47 $\times 10^3$ $\rightarrow$ 473 RD1/4PU $\overline{473}$ J

0.5 Ω $\rightarrow$ R50 RN2H $\overline{R50}$ K

1 Ω $\rightarrow$ 1R0 RS1P $\overline{1R0}$ K

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

5.62k Ω $\rightarrow$ 562 $\times 10^1$ $\rightarrow$ 5621 RN1/4PC $\overline{5621}$ F

Mark No. Description Part No.

LIST OF ASSEMBLIES

1..MAIN ASSY (VSX-D914) XWK3125
1..MAIN ASSY (VSX-D814) XWK3122

1..DSP ASSY AWX1082

NSP 1..AMP & PS ASSY (VSX-D914) XWK3145

NSP 1..AMP & PS ASSY (VSX-D814) XWK3142

2..AMP&PRIMARY ASSY (VSX-D914) XWZ3795

2..AMP&PRIMARY ASSY (VSX-D814) XWZ3792

2..REGULATOR ASSY XWZ3799

2..AMP INPUT ASSY XWZ3804

2..TRANS1 ASSY XWZ3807

2..TRANS2 ASSY XWZ3811

2..TRANS3 ASSY XWZ3814

2..BINDER ASSY XWZ3818

2..HOLDER ASSY XWZ3821

Mark No. Description Part No.

NSP 1..COMPLEX ASSY (VSX-D914) XWK3131

NSP 1..COMPLEX ASSY (VSX-D814) XWK3130

2..VIDEO ASSY XWZ3753

2..FRONT DISPLAY ASSY XWZ3756

2..FRONT KEY ASSY XWZ3758

2..5.1CH ASSY XWZ3760

2..P. SW & FUNC. KEY ASSY XWZ3764

2..H.P. ASSY XWZ3768

2..FRONT OPT&MIC ASSY (VSX-D914) XWZ3771

2..FRONT OPT&MIC ASSY (VSX-D814) XWZ3770

2..DIGITAL IN ASSY XWZ3773

2..S. VIDEO ASSY XWZ3776

2..COMPONENT ASSY XWZ3777

2..TRANS4 ASSY XWZ3778

2..PRE-OUT ASSY XWZ3779

2..B TO B ASSY XWZ3781

2..R. ENCODER ASSY XWZ3822

1..FM/AM TUNER UNIT AXX7172

• CONTRAST OF PCB ASSEMBLIES

A MAIN ASSY

XWK3122 and XWK3125 are constructed the same except for the following :

Mark	Symbol and Description	XWK3125	XWK3122
	R143	Not used	RS1/16S103J
	R9024	Not used	RS1/16S472J
	R9025	RS1/16S472J	Not used
	R9026	RS1/16S0R0J	RS1/16S182J
	R9040	Not used	RS1/16S473J
	CN108 5P CONNECTOR	52045-0545	Not used

C AMP & PRIMARY ASSY

XWZ3792 and XWZ3795 are constructed the same except for the following :

Mark	Symbol and Description	XWZ3795	XWZ3792
	C701, C702 (5600/71V)	XCH3015	Not used
	C701, C702 (4700/71V)	Not used	XCH3013

V FRONT OPT & MIC ASSY

XWZ3770 and XWZ3771 are constructed the same except for the following :

Mark	Symbol and Description	XWZ3771	XWZ3770
	IC951	UPC4570G2	Not used
	D951-D953	UDZS5.1B	Not used
	F951 CHIP BEAD	DTF1067	Not used
	C952, C959	CCSRCH471J50	Not used
	C953, C957, C962	CKSRYB103K50	Not used
	C954	CKSRYB104K25	Not used
	C956, C958, C963, C966, C967	CEAT100M50	Not used
	C960	CCSRCH101J50	Not used
	C965	CCSRCH330J50	Not used
	R953	RS1/16S682J	Not used
	R954, R962	RS1/16S101J	Not used
	R955, R957, R963	RS1/16S104J	Not used
	R956, R964	RS1/16S102J	Not used
	R958	RS1/16S474J	Not used
	R960	RS1/16S471J	Not used
	R961	RS1/16S333J	Not used
	R965, R966	RS1/16S0R0J	Not used
	CN952 CONNECTOR 5P	52045-0545	Not used
	JA952 JACK	RKN1004	Not used

• PARTS LIST FOR VSX-D914-K

Mark No. Description Part No.

COMPLEX ASSY

OTHERS

J42 JUMPER WIRE	D15A07-075-2651
J47 JUMPER WIRE	D20PYY0630E
J43 JUMPER WIRE 7P	D20PYY0708E
J41 JUMPER WIRE 11P	D20PYY1107E

AMP & PS ASSY

OTHERS

Y701 AWG14 BOARD IN	ADX7286
J21 JUMPER WIRED	D20PYY0715E

A MAIN ASSY

SEMICONDUCTORS

IC109	BD3812F
IC108	BD3813KS
IC101	BD3841FS
IC102	NJM2100M
IC9001	PD5962A
IC103-IC107, IC110-IC112, IC115	UPC4570G2
Q6001	2SA1037K
Q165, Q166, Q321, Q322	2SC3326
Q341, Q342, Q361, Q362, Q395	2SC3326
Q5001	2SD1664
Q229, Q230	2SK208
Q167, Q231, Q9002-Q9005	DTA124EK
Q9008	DTA143TK
Q232, Q6002	DTC124EK
Q168, Q6007, Q6008, Q9001	DTC143EK
Q9007	DTC143TK
D103-D108, D229, D230, D301	1SS355
D311, D312, D6001, D6002	1SS355

Mark No. Description Part No.

D9001-D9013	1SS355
D101, D102	RB501V-40

D5007	UDZS10B
D331, D332	UDZS6.8B

COILS AND FILTERS

L9001, L9002 CHIP SOLID INDUCTOR	ATL7002
L9003	LFEA2R2J
L101-L104, L111, L112, L5002	QTL1013
CHIP SOLID INDUCTOR	

CAPACITORS

C151, C152, C243, C244, C263	CCSRCH101J50
C284, C313, C314, C317, C318	CCSRCH101J50
C323, C324, C343, C344, C363	CCSRCH101J50
C386	CCSRCH101J50
C1031, C1041, C117, C118	CCSRCH220J50
C205-C208, C245-C248, C265	CCSRCH331J50
C267, C286, C288	CCSRCH331J50
C203, C204	CCSRCH471J50
C366	CEANP4R7M50
C121-C128, C131-C142	CEAT100M50
C167, C168, C209, C210	CEAT100M50
C213, C214, C249, C250	CEAT100M50
C269, C270, C290, C301-C306	CEAT100M50
C321, C322, C341, C342	CEAT100M50
C361, C362, C380, C382, C384	CEAT100M50
C5007	CEAT101M16
C169	CEAT221M6R3
C201, C202, C241, C242	CEAT2R2M50
C261, C262, C282, C9005	CEAT2R2M50
C9007	CEAT331M6R3
C325, C326, C345, C346, C365	CEAT470M25
C388	CEAT470M25

Mark No. Description**Part No.**

C155, C156
C333, C334
C9013

CEAT470M50
CEAT471M10
CEAT471M6R3

C165, C166, C370
C170
C320, C392, C5001, C9015, C9016
C115, C116, C153, C154, C171
C179, C180, C199, C215–C218

CEAT4R7M50
CKSQYB104K16
CKSRYB102K50
CKSRYB103K50
CKSRYB103K50

C251, C252, C266, C271, C272
C291, C292, C315, C316, C319
C327–C330, C347, C348
C367, C368, C389, C390, C5002
C9004, C9008, C9017

CKSRYB103K50
CKSRYB103K50
CKSRYB103K50
CKSRYB103K50
CKSRYB103K50

C219, C220, C309–C312
C5003, C9006
C264
C257, C258, C277, C278, C298
C307, C308, C364

CKSRYB104K16
CKSRYB105K10
CKSRYB223K25
CKSRYB472K50
CKSRYB472K50

C9011, C9014
C268
C391
C9003 (1F/5.5V)

CKSRYB473K16
CKSRYB562K50
CKSRYF104Z16
PCH1132

RESISTORS

⚠ R171, R172
⚠ R173, R174
⚠ R311, R312
Other Resistors

RS1/16S470J
RS1/16S472J
RS1LMF101J
RS1/16S###J

OTHERS

CN105 8P CONNECTOR
CN103 11P CONNECTOR
CN104 13P CONNECTOR
CN108 5P CONNECTOR
CN101 17P CONNECTOR

52044-0845
52044-1145
52044-1345
52045-0545
52045-1745

CN106, CN112 19P CONNECTOR
CN107 CONNECTOR POST
CN10918P SOCKET
CN11120P SOCKET
101–103

52045-1945
B3B-PH-K
KP200TA18L
KP200TA20L
VEF1040

JA101–JA104 PCB BINDER
X9001 CERAMIC RESONATOR
(15.7 MHz)

XKB3017
XSS3004

**B DSP ASSY
SEMICONDUCTORS**

IC8201
IC8401
IC8501
IC8601
IC8602

AK4114VQ
AK4628VQ
DSPD56367PV150
IS61LV6416-12T
IS63LV1024-12T

IC8901
IC8902
IC8603
IC8101
IC8701

NJM2391DL1-33
NJU7223DL1-18
PD8116A
TC74HCU04AF
TC74LVX244FT

IC8702
IC8503
IC8502
Q8504
Q8503

TC74VHCT244AFT
TC7WH125FU
TC7WU04FU
UMD2N
UN5112

Mark No. Description**Part No.**

Q8501
D8501
D8401
D8402, D8502, D8503

UN5212
1SS355
DAN202K
DAP202K

COILS AND FILTERS

L8002, L8004, L8501, L8502
L8601–L8603 CHIP SOLID INDUCTOR
L8101–L8104, L8201, L8203, L8204
L8401, L8402, L8504, L8505
L8701, L8702 CHIP SOLID INDUCTOR

ATL7002
ATL7002
QTL1013
QTL1013
QTL1013

CAPACITORS

C8209, C8210
C8421
C8107, C8112
C8007, C8008, C8109, C8201, C8212
C8214, C8404, C8409–C8414

CCSRCH100D50
CCSRCH101J50
CCSRCH470J50
CCSRCH471J50
CCSRCH471J50

C8416, C8417, C8419, C8505, C8507
C8509, C8511, C8512, C8515, C8518
C8520, C8522, C8524, C8526, C8528
C8530, C8532, C8534, C8536, C8539
C8541, C8543, C8545, C8551, C8552

CCSRCH471J50
CCSRCH471J50
CCSRCH471J50
CCSRCH471J50
CCSRCH471J50

C8602, C8603, C8606, C8607, C8610
C8703, C8706
C8548, C8549
C8701, C8704
C8105, C8406, C8415, C8546, C8547

CCSRCH471J50
CCSRCH471J50
CCSRCH8R0D50
CEV100M16
CEV101M16

C8613, C8902, C8904
C8217, C8225, C8408
C8204, C8555
C8009, C8104, C8114, C8405, C8418
C8517, C8554

CEV101M16
CEV470M6R3
CKSRYB102K50
CKSRYB103K50
CKSRYB103K50

C8010, C8115, C8202, C8207, C8213
C8215, C8407, C8420, C8422, C8504
C8513, C8521, C8523, C8525, C8527
C8529, C8531, C8533, C8535
C8537, C8538, C8540, C8542, C8544

CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16

C8550, C8553, C8601, C8604, C8605
C8608, C8609, C8702, C8705, C8901
C8903
C8110, C8516
C8514

CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB105K6R3
CKSRYB333K16

C8203

CKSRYB473K50

RESISTORS

R8506
R8201
Other Resistors

RAB4C101J
RS1/16S1802F
RS1/16S###J

OTHERS

CN8012 19P CONNECTOR
JA8101 2P PIN JACK
CN8003 13P SOCKET
CN8007 19P SOCKET
JA8102 OPT. LINK IN

52045-1945
AKB7131
AKP7070
AKP7073
GP1FA513RZB

CN8017 10P CONNECTOR
X8501 CRYSTAL RESONATOR
(20 MHz)
X8201 CRYSTAL RESONATOR
(24.576 MHz)

VKN1414
VSS1171
XSS3003

Mark No. Description Part No.

C AMP & PRIMARY ASSY SEMICONDUCTORS

⚠ IC603 PROTECTOR(1A)	AEK7009
⚠ IC604-IC607 PROTECTOR(125mA)	AEK7022
IC701, IC702 PROTECTOR(400mA)	ICP-N10
IC51	NJM78M56FA
⚠ IC601, IC602	PAC011A
Q703, Q721	2SA1145
Q702	2SA2005
Q696, Q697	2SC1740S
Q704, Q722	2SC1845
Q605, Q606, Q633, Q655, Q656	2SC2240
Q683	2SC2240
Q701	2SC5511
Q601-Q604, Q631, Q632	2SC5974A
Q651-Q654, Q681, Q682	2SC5974A
Q51	DTC143ES
D56, D601, D603, D606, D608	1SS133
D631, D632, D651-D654	1SS133
D683, D684, D752, D754, D758	1SS133
⚠ D701, D702	D5SBA20
D675-D678	MTZJ16A
D711	MTZJ22D
D58, D712	MTZJ5.1B
⚠ D51-D55, D721-D724	S5688G

COILS AND FILTERS

L751-L754, L761, L762 COIL	ATH1004
L51 LINE FILTER	XTF3004

SWITCHES AND RELAYS

RY51	XSR3006
RY751-RY754	XSR3007

CAPACITORS

C707, C708 (0.01/AC250V)	ACG1005
C611-C614, C636, C637	CCPUCH6R8K50
C661-C664, C686, C687	CCPUCH6R8K50
C615, C616, C638, C665, C666	CEANP2R2M50
C688	CEANP2R2M50
C775, C776	CEANP470M50
C712	CEAT101M10
C609, C610, C635, C659, C660	CEAT101M16
C685	CEAT101M16
C711	CEAT101M35
C53	CEAT102M16
C697	CEAT221M10
C54	CEAT470M25
C605, C606, C633, C655, C656	CEAT4R7M50
C683	CEAT4R7M50
C705, C706	CEHAT100M2A
C607, C608, C634, C657, C658	CKPUYB101K50
C684	CKPUYB101K50
C696	CKPUYB102K50
C603, C604, C632, C653, C654	CKPUYB331K50
C682	CKPUYB331K50
C55-C57	CKPUYF103Z25
C751, C752, C755, C761, C762	CQMBA104J50
C771	CQMBA104J50
C51, C52 (10000pF/250V(AC))	XCG3009
C703, C704 (3300/42V)	XCH3012

Mark No. Description Part No.

C701, C702 (5600/71V)	XCH3015
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RESISTORS

R617, R622, R639, R667, R668	ACN7094
R691 (0.22/5W)	ACN7094
⚠ R51 (2.2M/ 1/2W)	RCN1080
⚠ R52	RD1/2PM270J
⚠ R615	RD1/4PU331J
⚠ R751, R752, R755, R761, R762	RD1/4PUF101J
⚠ R772	RD1/4PUF101J
⚠ R753, R754, R756, R763, R764	RS1LMF4R7J
⚠ R771	RS1LMF4R7J
⚠ R711	RS2LMF392J

Other Resistors	RD1/4PU###J
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OTHERS

CN604 7P CONNECTOR	52045-0745
CN53 23P CONNECTOR	52045-2345
CN702 6P JUMPER CONNECTOR	52147-0610
CN751 SPEAKER TERMINAL 8-P	AKE7074
CN753 SPEAKER TERMINAL 6-P	AKE7075
CN752 SPEAKER TERMINAL 4-P	AKE7076
51 AC SOCKET 1-P	AKP1060
H51, H52, H701, H702 FUSE CLIP	AKR7001
⚠ T51 STANDBY TRANSFORMER	ATT7043
CN601 18P PLUG	KM200TA18
CN51 AC CODE SOCKET	RKP1751
KN51, KN601 EARTH METAL FITTING	VNF1084
701 7P CABLE HOLDER	XKP3047

D TRANS2 ASSY SEMICONDUCTORS

⚠ IC853 PROTECTOR (3A)	AEK7015
⚠ IC851, IC852 PROTECTOR (4A)	AEK7018

OTHERS

851 7P CABLE HOLDER	XKP3047
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E TRANS3 ASSY

TRANS3 ASSY has no service part.

F REGULATOR ASSY SEMICONDUCTORS

IC803, IC804	NJM78M05FA
IC801, IC805	NJM78M12FA
IC806	NJM78M56FA
IC802	NJM79M12FA
Q801, Q803, Q805	DTA124ES
Q802, Q804, Q806	DTC114ES
D809-D811	MTZJ6.2B
⚠ D801-D804	S5688G

CAPACITORS

C811, C815	CEAT101M10
C813	CEAT101M16
C801, C802	CEAT222M25
C809	CEAT472M16
C808	CEHAT101M10

Mark No. Description Part No.

C805, C806
C803, C804, C807, C810, C812
C814

CEHAT101M16
CKPUYF103Z25
CKPUYF103Z25

RESISTORS

R801

RS3LMF331J

OTHERS

CN801 23P CONNECTOR
CN805 13P PLUG
CN806 19P PLUG
CN804 18P PLUG
CN802 20P PLUG

52045-2345
AKP7059
AKP7062
KM200TA18
KM200TA20

CN803 7P PLUG

KM200TA7

**G AMP INPUT ASSY
SEMICONDUCTORS**

IC251
Q257
Q251, Q256
Q252
Q254

NJM4558D-D
2SA933S
2SC5974A
2SD1858X
DTA124ES

Q253, Q255
D251, D252
D253
D254

DTC124ES
1SS133
MTZJ27D
MTZJ5.1B

CAPACITORS

C251
C254
C252, C253

CEANP470M25
CEAT101M25
CKPUYF103Z25

RESISTORS

All Resistors

RD1/4PU###J

OTHERS

CN251 3P CONNECTOR
CN254 19P CONNECTOR
CN253 18P SOCKET
CN252 3PIN CONNECTOR

52044-0345
52044-1945
KP200TA18L
S3B-EH

H TRANS1 ASSY

TRANS1 ASSY has no service part.

**I VIDEO ASSY
SEMICONDUCTORS**

IC301
Q302
Q303
Q301
D301, D302, D305, D306

NJM2595M
2SA1515
2SC3326
2SC3377
1SS355

D307
D303, D304

UDZS5.1B
UDZS6.2B

COILS AND FILTERS

L301-L306 CHIP SOLID INDUCTOR

QTL1013

CAPACITORS

C347
C307-C310, C312, C314, C338
C1360, C302, C379

CCSRCH470J50
CEAT470M25
CKSRYB103K50

Mark No. Description Part No.

C339, C340
C304-C306

CKSRYB104K25
CKSRYB221K50

C333
C311, C313

CKSRYB331K50
CKSRYB473K25

RESISTORS

⚠ R313, R316
Other Resistors

RS3LMF390J
RS1/16S###J

OTHERS

CN303 13P CONNECTOR
JA305 PIN JACK(4P)YELLOW
CN302 7P SOCKET
CN301 9P SOCKET
JA352 JACK

52044-1345
AKB7100
KP200TA7L
KP200TA9L
RKN1026

CN306 2P PIN JACK
JA351 MINI JACK(4P) /W SW

XKB3041
XKN3015

**J 5.1CH ASSY
CAPACITORS**

C342-C345
C321, C324, C331, C332
C1364
C316
C317, C318, C325, C326

CCSRCH101J50
CEAT4R7M50
CKSRYB102K50
CKSRYB103K50
CKSRYB221K50

RESISTORS

All Resistors

RS1/16S###J

OTHERS

CN307 8P CONNECTOR
CN309 PIN JACK(4P)

52044-0845
XKB3035

**K B TO B ASSY
OTHERS**

CN392 5P CONNECTOR
CN391 7P PLUG
CN390 9P PLUG
391 PCB BINDER

52045-0545
KM200TA7
KM200TA9
VEF1040

**L S. VIDEO ASSY
SEMICONDUCTORS**

IC351, IC352
D351-D358

NJM2595M
1SS355

CAPACITORS

C375, C376, C381-C386
C352, C355, C358, C361-C363
C366
C372, C373
C351, C353, C354, C356, C357

CCSRCH470J50
CEAT470M25
CEAT470M25
CKSRYB103K50
CKSRYB104K25

C359, C367
C364, C365, C368-C371

CKSRYB104K25
CKSRYB221K50

RESISTORS

All Resistors

RS1/16S###J

OTHERS

CN353 2-4P MINI DIN SOCKET
CN352 3-4P MINI DIN SOCKET
CN354 CONNECTOR POST

AKP7020
AKP7043
B5B-PH-K

Mark No.	Description	Part No.
CN351	7P SOCKET	KP200TA7L

M FRONT DISPLAY ASSY

SEMICONDUCTORS

IC401	PE5420A
Q484	2SA1037K
Q441, Q442	DTC124EK
D403-D405	1SS355
D401	DAN202K
D500	SLI-343DCW

COILS AND FILTERS

L401	LFEA2R2J
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CAPACITORS

C482, C483	CCSRCH221J50
C481	CCSRCH471J50
C442	CEAL470M10
C403	CEAT221M6R3
C412	CEAT470M50
C415, C454	CKSRYB102K50
C401, C402, C410, C411, C419	CKSRYB103K50
C441	CKSRYB103K50
C418, C421	CKSRYB104K16
C420 (220uF/35V)	XCH3011

RESISTORS

All Resistors	RS1/16S###J
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OTHERS

471 11P CABLE HOLDER	51048-1100
404 CABLE HOLDER (7P)	51063-0705
CN401 17P CONNECTOR	52044-1745
CN450 7PJUMPER CONNECTOR	52151-0710
V401 FL TUBE	XAV3022
X401 CERAMIC RESONATOR (5 MHz)	VSS1142
401 REMOTE RECEIVERUNIT	GP1UM28XK

N R. ENCODER ASSY

SEMICONDUCTORS

D512	SLI-343DCW
D511	UDZS5.6B

SWITCHES AND RELAYS

S511	VSG1024
S513 ROTARY ENCODER	XSX3005
S512 ROTARY ENCODER	XSX3006

RESISTORS

All Resistors	RS1/16S###J
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OTHERS

511 CABLE HOLDER (7P)	51063-0705
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O P. SW & FUNC. KEY ASSY

SEMICONDUCTORS

D501-D508	SLI-343DCW
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SWITCHES AND RELAYS

Mark No.	Description	Part No.
S501-S509		VSG1024

RESISTORS

All Resistors	RS1/16S###J
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P FRONT KEY ASSY

SWITCHES AND RELAYS

S451-S469	VSG1024
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CAPACITORS

C451-C453	CKSRYB102K50
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RESISTORS

All Resistors	RS1/16S###J
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OTHERS

550 7P CABLE HOLDER	51048-0700
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Q TRANS4 ASSY

SEMICONDUCTORS

IC891, IC892 PROTECTOR (630mA)	AEK7006
D891	S1WB(A)60SD

CAPACITORS

C891, C892	CEAT471M35
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OTHERS

CN891 3P CONNECTOR	52045-0345
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R H.P. ASSY

SEMICONDUCTORS

Q1551, Q1552	2SC3326
--------------	---------

CAPACITORS

C1554, C1557	CCSRCH471J50
C1553, C1556	CKSRYB103K50
C1555, C1558	CKSRYB104K16
C1551, C1552	CKSRYB223K50

RESISTORS

⚠ R1553, R1554	RS1LMF151J
⚠ R1551, R1552	RS2LMF331J
Other Resistors	RS1/16S###J

OTHERS

1551 6P CABLE HOLDER	51048-0600
JA1551 HEADPHONE JACK	RKB1014
KN1551 EARTH METAL FITTING	VNF1084

S PRE-OUT ASSY

CAPACITORS

C1581	CKSRYB103K50
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RESISTORS

All Resistors	RS1/16S###J
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OTHERS

CN1575 7P CONNECTOR	52045-0745
1575 PIN JACK(6P)	XKB3033

Mark No. Description Part No.

T DIGITAL IN ASSY COILS AND FILTERS

F1901 CHIP BEAD

DTF1067

CAPACITORS

C1907,C1909

C1904

C1908

C1903,C1906

C1901,C1902,C1905

CCSRCH101J50

CEAL101M10

CKSRYB102K50

CKSRYB103K50

CKSRYB104K25

RESISTORS

All Resistors

RS1/16S###J

OTHERS

CN1902 CONNECTOR POST

JA1901 OPT. LINK IN

JA1902 OPT. LINK OUT 12MB/S

CN1901 10P CONNECTOR

KN1901 WRAPPING TERMINAL

B5B-PH-K

GP1FA513RZB

GP1FA513TZ

VKN1186

VNF1084

U COMPORNENT ASSY SEMICONDUCTORS

IC552

IC551

D551, D552

NJM2581M

TC74HC4053AF

1SS355

CAPACITORS

C551-C554

C555-C562, C566, C568

CEAT101M10

CKSRYB103K50

RESISTORS

All Resistors

RS1/16S###J

OTHERS

CN551 5P CONNECTOR

JA553 3P RCA PINJACK

JA551 6P RCA PINJACK

52045-0545

AKB7124

XKB3025

V FRONT OPT & MIC ASSY SEMICONDUCTORS

IC951

D951-D953

UPC4570G2

UDZS5.1B

COILS AND FILTERS

F951 CHIP BEAD

DTF1067

CAPACITORS

C901, C902, C915, C916, C960

C965

C952, C959

C903, C905

C956, C958, C963, C966, C967

CCSRCH101J50

CCSRCH330J50

CCSRCH471J50

CEAL470M25

CEAT100M50

C908, C911, C914, C953, C957

C962

C904, C906, C909, C912, C951

C954

C907, C910, C913

CKSRYB103K50

CKSRYB103K50

CKSRYB104K25

CKSRYB104K25

CKSRYB471K50

RESISTORS

All Resistors

RS1/16S###J

OTHERS

Mark No. Description Part No.

CN952 CONNECTOR 5P

CN951 CONNECTOR POST

CN901 CONNECTOR

JA951 OPTICAL IN MOD.

JA952 JACK

52045-0545

B5B-PH-K

B8B-PH-K

GP1FM513RZ

RKN1004

KN951 WRAPPING TERMINAL

JA902 PIN JACK(4P)

VNF1084

XKX3003

W FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service part.

6. ADJUSTMENT

There is no information to be shown in this chapter.

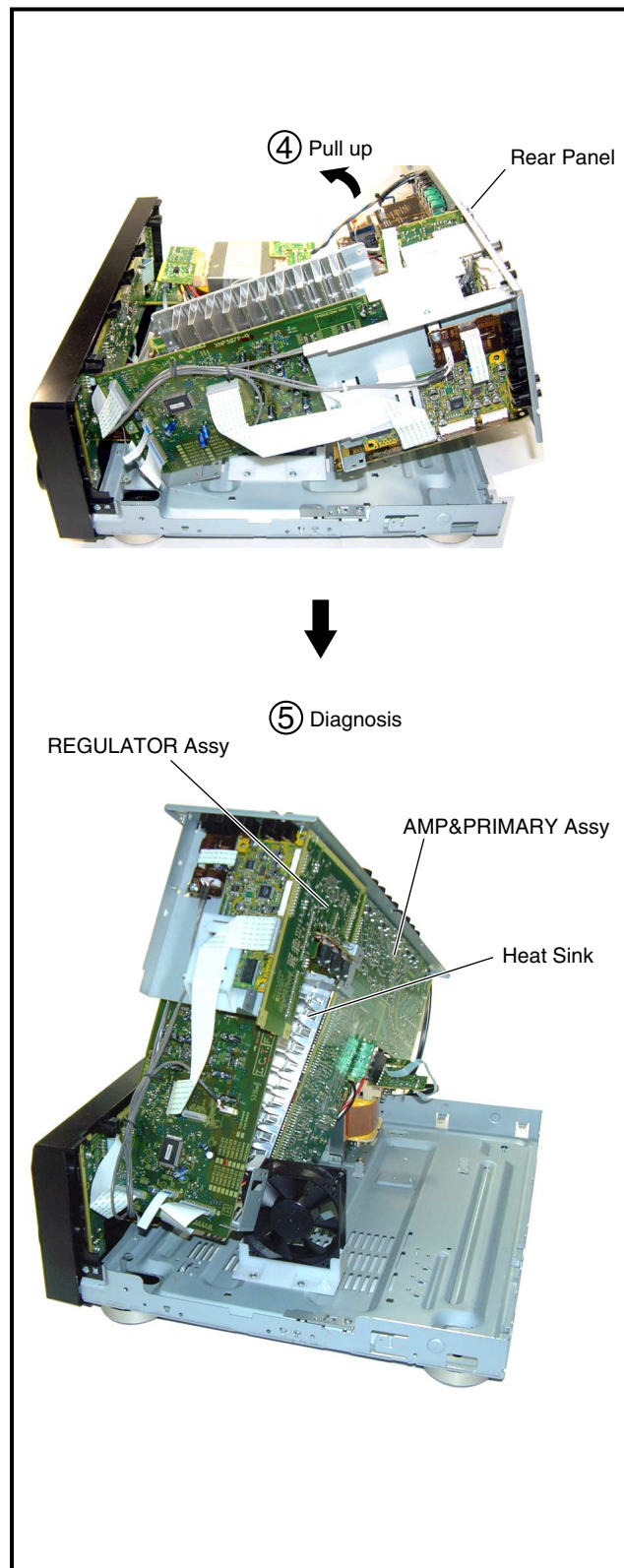
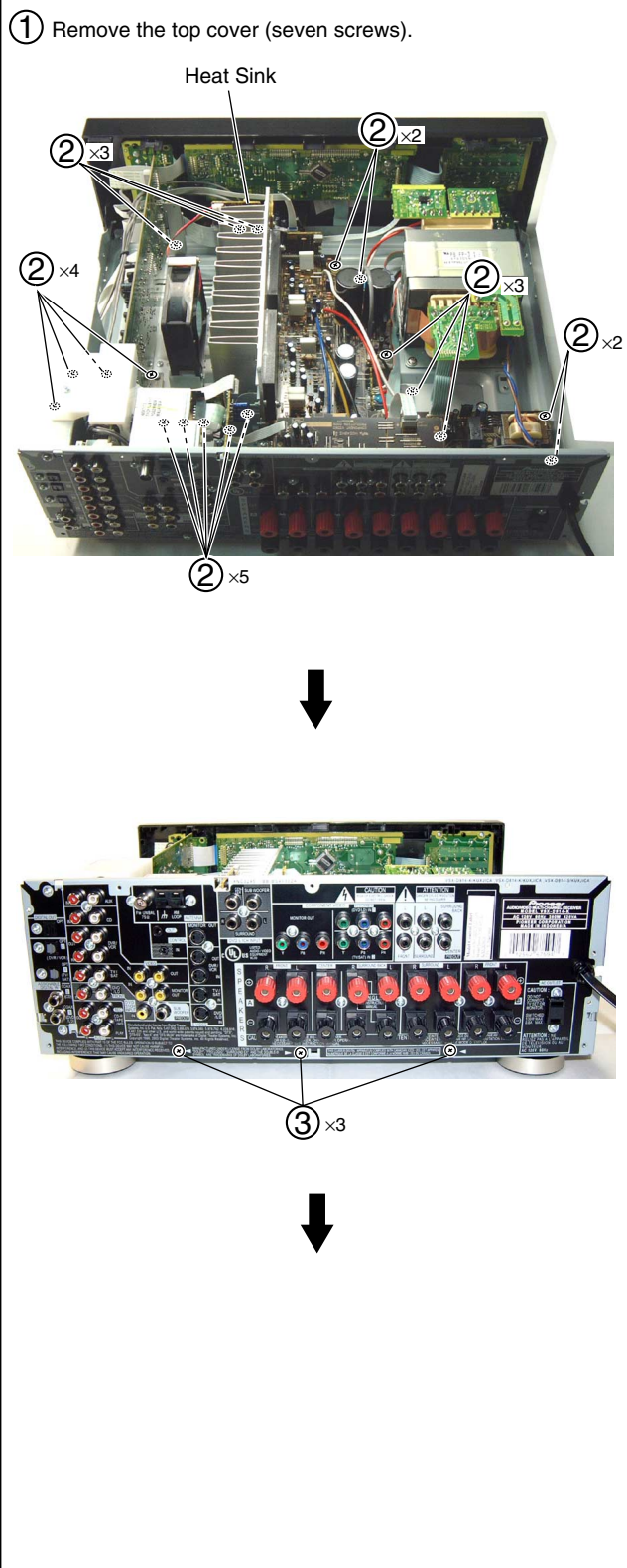


7. GENERAL INFORMATION

7.1 DIAGNOSIS

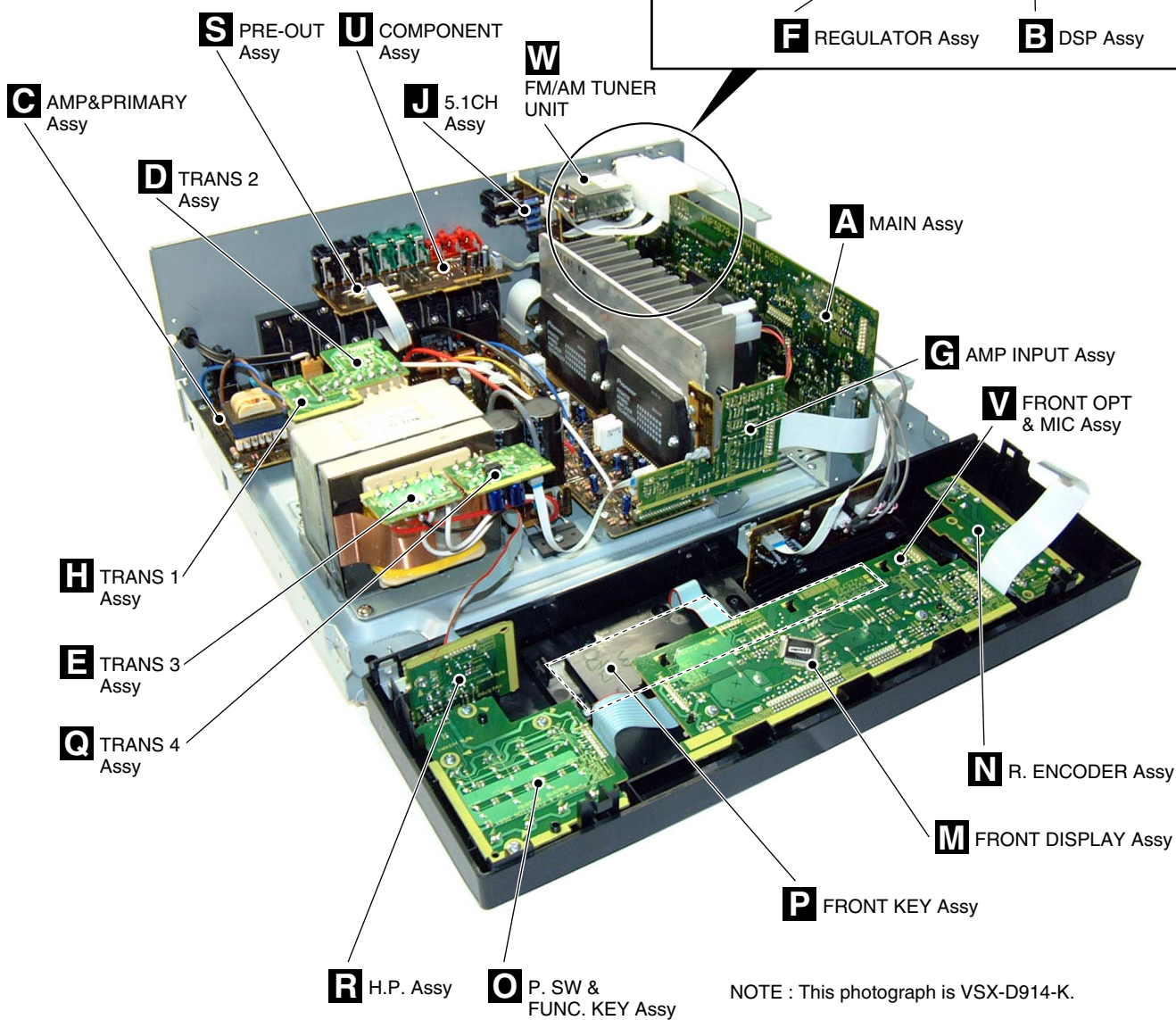
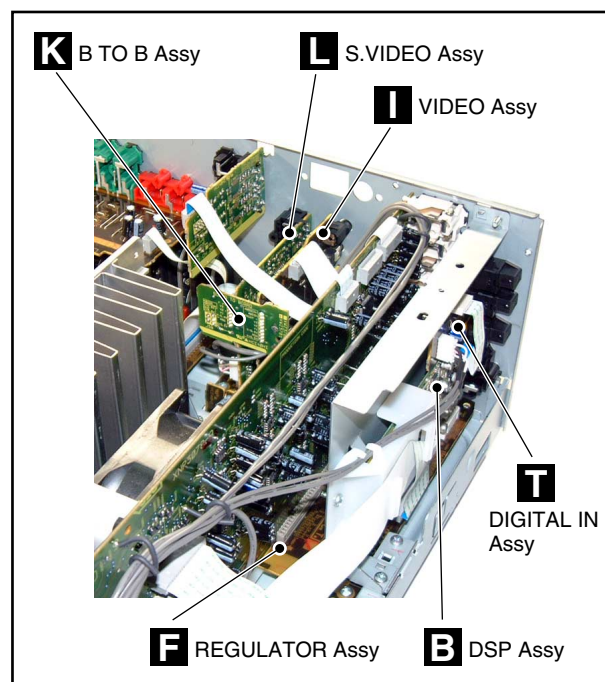
7.1.1 DISASSEMBLY

■ Diagnosis



Note : The unit does not operate when the screws of Speaker Terminal are taken off from Rear Panel.

Heat-sink caution in the disassembling : Because Heat-sink becomes hot, please pay attention.



NOTE : This photograph is VSX-D914-K.

7.2 PARTS

7.2.1 IC

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

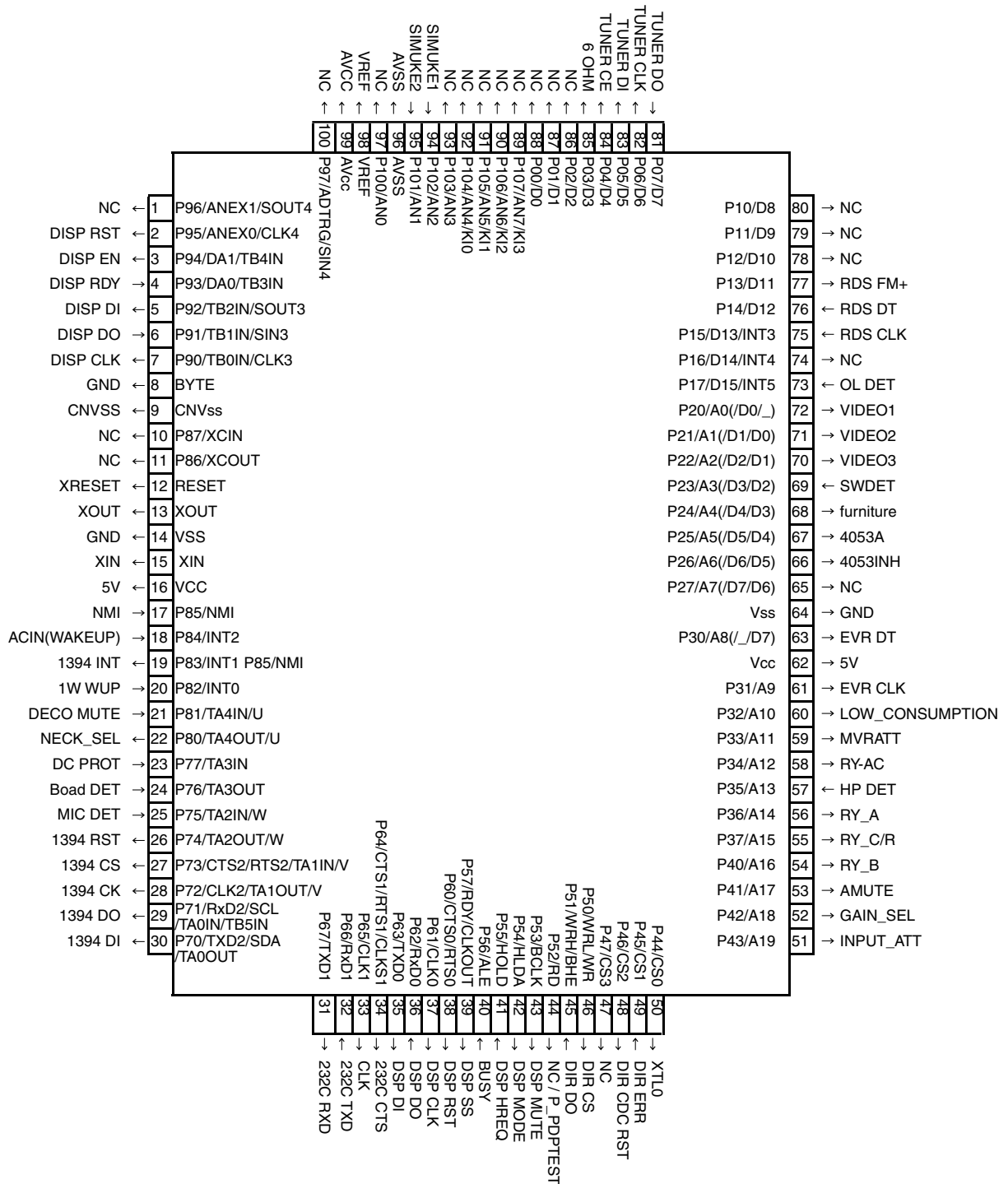
- **List of IC**

PD5962A, PE5420A

■ PD5962A (MAIN ASSY : IC9001)

- **System Control MCU**

■ Pin Arrangement (Top View)



• Pin Function

No.	Port	Pin Name	I/O	Pin Function
1	P96/ANEX1/SOUT4	NC	I/O	
2	P95/ANEX0/CLK4	DISP RST	I/O	Reset signal to display u-com
3	P94/DA1/TB4IN	DISP EN	I/O	Enable signal to display u-com
4	P93/DA0/TB3IN	DISP RDY	I/O	Ready signal from display u-com
5	P92/TB2IN/SOUT3	DISP DI	I/O	Data out to display u-com
6	P91/TB1IN/SIN3	DISP DO	I/O	Data input from display u-com
7	P90/TB0IN/CLK3	DISP CLK	I/O	Clock signal to display u-com
8	BYTE	GND		
9	CNVss	CNVSS		
10	P87/XCIN	NC	I/O	
11	P86/XCOUT	NC	I/O	
12	RESET	XRESET		
13	XOUT	XOUT		
14	VSS	GND		
15	XIN	XIN		
16	VCC	5V		
17	P85/NMI	NM	I	No use
18	P84/INT2	ACIN(WAKEUP)	I/O	AC pulse input
19	P83/INT1 P85/NMI	1394 INT	I/O	No use (Standby for 1394)
20	P82/INT0	1W WUP	I/O	Wake up signal from display u-com
21	P81/TA4IN/U	DECO MUTE	I/O	1st DSP detect port
22	P80/TA4OUT/U	NECK_SEL	I/O	5.1ch, surround mode and A+B Stereo : H / Stereo : L
23	P77/TA3IN	DC PROT	I/O	AMP DC detect
24	P76/TA3OUT	Boad DET	I/O	AMP INPUT ASSY detect, H : detected
25	P75/TA2IN/W	MIC DET	I/O	MIC detect (VSX-D914 only), L : detect
26	P74/TA2OUT/W	1394 RST	I/O	No use (Standby for 1394)
27	P73/CTS2/RTS2/TA1IN/V	1394 CS	I/O	No use (Standby for 1394)
28	P72/CLK2/TA1OUT/V	1394 CK	I/O	No use (Standby for 1394)
29	P71/RxD2/SCL/TA0IN/TB5IN	1394 DO	I/O	No use (Standby for 1394)
30	P70/TXD2/SDA/TA0OUT	1394 DI	I/O	No use (Standby for 1394)
31	P67/TXD1	232C RXD	I/O	For rewriting 232C (Data output)
32	P66/RxD1	232C TXD	I/O	For rewriting 232C (Data input)
33	P65/CLK1	CLK	I/O	It is necessary when writing for JIG
34	P64/CTS1/RTS1/CLKS1	232C CTS	I/O	For rewriting 232C (Admit communication)
35	P63/TXD0	DSP DI	I/O	Data output signal for communication with DSP and DIR
36	P62/RxD0	DSP DO	I/O	Data input signal for communication with DSP
37	P61/CLK0	DSP CLK	I/O	Clock signal for communication with DSP and DIR
38	P60/CTS0/RTS0	DSP RST	I/O	Reset signal for DSP
39	P57/RDY/CLKOUT	DSP SS	I/O	Srobe select signal to DSP
40	P56/ALE	BUSY	I/O	Use it in MCACC
41	P55/HOLD	DSP HREQ	I/O	DSP error detect signal
42	P54/HLDA	DSP MODE	I/O	Mode select of DSP (ROM/RAM)
43	P53/BCLK	DSP MUTE	I/O	DSP ASSY mute
44	P52/RD	NC / P_PDPTEST	I/O	For SR+ testmode only
45	P51/WRH/BHE	DIR DO	I/O	Data input signal for communication with DIR/DAC
46	P50/WRL/WR	DIR CS	I/O	Chip select signal for communication with DIR/DAC
47	P47/CS3	NC	I/O	
48	P46/CS2	DIR CDC RST	I/O	Reset signal for DIR CODEC
49	P45/CS1	DIR ERR	I/O	lock/unlock signal
50	P44/CS0	XTL0	I/O	DIR X'tal change

• Pin Function

No.	Port	Pin Name	I/O	Pin Function
51	P43/A19	INPUT_ATT	I/O	Analog input ATT(H : ATT ON)
52	P42/A18	GAIN_SEL	I/O	Gain select (5.1ch and Stereo of analog input : H)
53	P41/A17	AMUTE	I/O	System mute
54	P40/A16	RY_B	I/O	Speaker B relay ON/OFF
55	P37/A15	RY_C/R	I/O	Rear/Center Speaker relay ON/OFF
56	P36/A14	RY_A	I/O	Speaker A relay ON/OFF
57	P35/A13	HP DET	I/O	HP detect, H : detected
58	P34/A12	RY-AC	I/O	AC relay ON/OFF
59	P33/A11	MVRATT	I/O	ATT control of master volume (less than -15dB : L)
60	P32/A10	LOW_CONSUMPTION	I/O	If stop mode, port L, else H
61	P31/A9	EVR CLK	I/O	Clock signal for Function and E-volume
62	Vcc	5V		
63	P30/A8(/_D7)	EVR DT	I/O	Data signal for Function and E-volume
64	Vss	GND		
65	P27/A7(/D7/D6)	NC	I/O	
66	P26/A6(/D6/D5)	4053INH	I/O	Component terminal control
67	P25/A5(/D5/D4)	4053A	I/O	Component terminal control
68	P24/A4(/D4/D3)	furniture	I/O	Furniture control signal
69	P23/A3(/D3/D2)	SWDET	I/O	SWSP detect
70	P22/A2(/D2/D1)	VIDEO3	I/O	SWSP detect
71	P21/A1(/D1/D0)	VIDEO2	I/O	SWSP detect
72	P20/A0(/D0/_)	VIDEO1	I/O	NJM2296 control (VIDEO input select)
73	P17/D15/INT5	OL DET	I/O	Detect overload of AMP
74	P16/D14/INT4	NC	I/O	
75	P15/D13/INT3	RDS CLK	I/O	Clock input signal for RDS module
76	P14/D12 RDS	DT	I/O	Data input signal for RDS module
77	P13/D11 RDS	FM+	I/O	Power ON/OFF of RDS decoder
78	P12/D10	NC	I/O	
79	P11/D9	NC	I/O	
80	P10/D8	NC	I/O	
81	P07/D7	TUNER DO	I/O	Data input signal for tuner control
82	P06/D6	TUNER CLK	I/O	Clock signal for tuner control
83	P05/D5	TUNER DI	I/O	Data output signal for tuner control
84	P04/D4	TUNER CE	I/O	Chip select signal for tuner control
85	P03/D3	6 OHM	I/O	If stop mode, port L, else L/H depends on selection.
86	P02/D2	NC	I/O	
87	P01/D1	NC	I/O	
88	P00/D0	NC	I/O	
89	P107/AN7/KI3	NC	I/O	
90	P106/AN6/KI2	NC	I/O	
91	P105/AN5/KI1	NC	I/O	
92	P104/AN4/KI0	NC	I/O	
93	P103/AN3	NC	I/O	
94	P102/AN2	SIMUKE1	I/O	Input 1 to switch region
95	P101/AN1	SIMUKE2	I/O	Input 2 to switch region
96	AVSS	AVSS		Connect to VSS
97	P100/AN0	NC	I/O	
98	VREF	VREF		Connect to VCC
99	AVcc	AVCC		Connect to VCC
100	P97/ADTRG/SIN4	NC	I/O	

• Pin Function

No.	Port	Pin Name	I/O	Pin Function
1	VDD1	+5V	-	positive power supply
2	VSS1	GND	-	ground potential
3	X1	Resonator	I	crystal connection for system clock oscillation
4	X2	Resonator	I	crystal connection for system clock oscillation
5	IC(VPP)	GND	-	
6	RESET	DISP RESET	I	receive reset signal from main u-com
7	P27/SCK1	DISP CK	I/O	clock signal from main u-com
8	P26/SI1	DISP DTI	I/O	datain from main u-com
9	P25/SO1	DISP DTO	I/O	data out to main u-com
10	P24/BUSY	DISP RDY	I/O	ready signal from main u-com
11	P23	NC	I/O	
12	P22	NC	I/O	
13	P21/SO3	NC	I/O	
14	P20/SCK3	NC	I/O	
15	P00/INTP0	DISP EN	I/O	enable signal from main u-com
16	P01/INTP1	NC	I/O	
17	P02/T1	SR IN	I/O	remote control signal input from main room
18	AVSS	GND	-	ground potential for A/D converter
19	ANI3	KEY IN4	I	
20	ANI2	KEY IN3	I	
21	ANI1	KEY IN2	I	
22	ANI0	KEY IN1	I	
23	VSS0	GND	-	ground potential for ports
24	AVDD	'+5V	-	analog power voltage input to A/D converter
25	VDD0	'+5V	-	positive power supply to ports
26	P64/FIP52	NC	I/O	
27	P63/FIP51	FEN A	I/O	MULTI JOG(Right)
28	P62/FIP50	FEN B	I/O	MULTI JOG(Left)
29	P61/FIP49	EN B	I/O	VOLUME JOG1(-)
30	P60/FIP48	EN A	I/O	VOLUME JOG1(+)
31	P57/FIP47	NC	I/O	
32	P56/FIP46	TEST	I/O	test mode input for checker
33	P55/FIP45	NC	I/O	
34	P54/FIP44	NC	I/O	
35	P53/FIP43	NC	I/O	
36	P52/FIP42	1W WUP	I/O	output wakeup signal to main u-com
37	P51/FIP41	VOLUME LED	I/O	LED Output
38	P50/FIP40	MCACC LED	I/O	LED Output
39	P47/FIP39	FUNC AUX	I/O	LED Output
40	P46/FIP38	FUNC TUNER	I/O	LED Output

• Pin Function

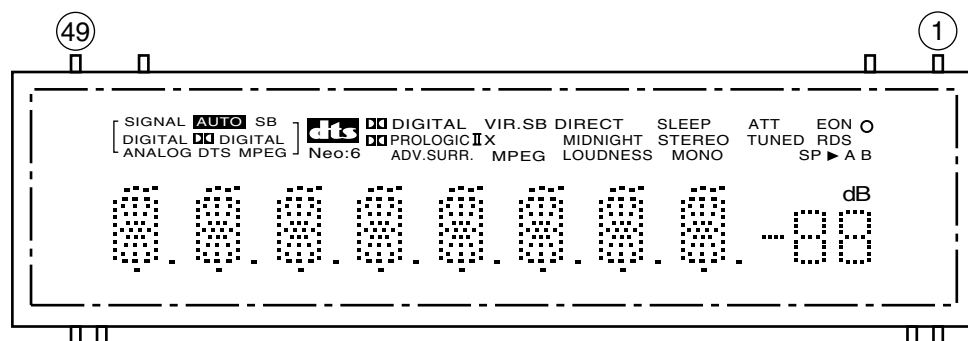
No.	Port	Pin Name	I/O	Pin Function
41	FIP37/P45	FUNC CD-R/TAPE	I/O	LED Output
42	FIP36/P44	FUNC CD	I/O	LED Output
42	FIP35/P43	FUNC DVD/LD	I/O	LED Output
44	FIP34/P42	FUNC TV/SAT	I/O	LED Output
45	FIP33/P41	FUNC DVR/VCR	I/O	LED Output
46	FIP32/P40	FUNC VIDEO	I/O	LED Output
47	FIP31/P37	S22	I/O	Display
48	FIP30/P36	S21	I/O	Display
49	FIP29/P35	S20	I/O	Display
50	FIP28/P34	S19	I/O	Display
51	FIP27/P33	S18	I/O	Display
52	FIP26/P32	S17	I/O	Display
53	FIP25/P31	S16	I/O	Display
54	FIP24/P30	S15	I/O	Display
55	FIP23	S14	O	Display
56	FIP22	S13	O	Display
57	FIP21	S12	O	Display
58	FIP20	S11	O	Display
59	VDD2	'+5V	-	positive power supply to FIP controller.
60	VLOAD	VF	-	pull down resistor connection of FIP controller
61	FIP19	S10	O	Display
62	FIP18	S9	O	Display
63	FIP17	S8	O	Display
64	FIP16	S7	O	Display
65	FIP15	S6	O	Display
66	FIP14	S5	O	Display
67	FIP13	S4	O	Display
68	FIP12	S3	O	Display
69	FIP11	S2	O	Display
70	FIP10	S1	O	Display
71	FIP9	G10	O	Display
72	FIP8	G9	O	Display
73	FIP7	G8	O	Display
74	FIP6	G7	O	Display
75	FIP5	G6	O	Display
76	FIP4	G5	O	Display
77	FIP3	G4	O	Display
78	FIP2	G3	O	Display
79	FIP1	G2	O	Display
80	FIP0	G1	O	Display

7.2.2 DISPLAY

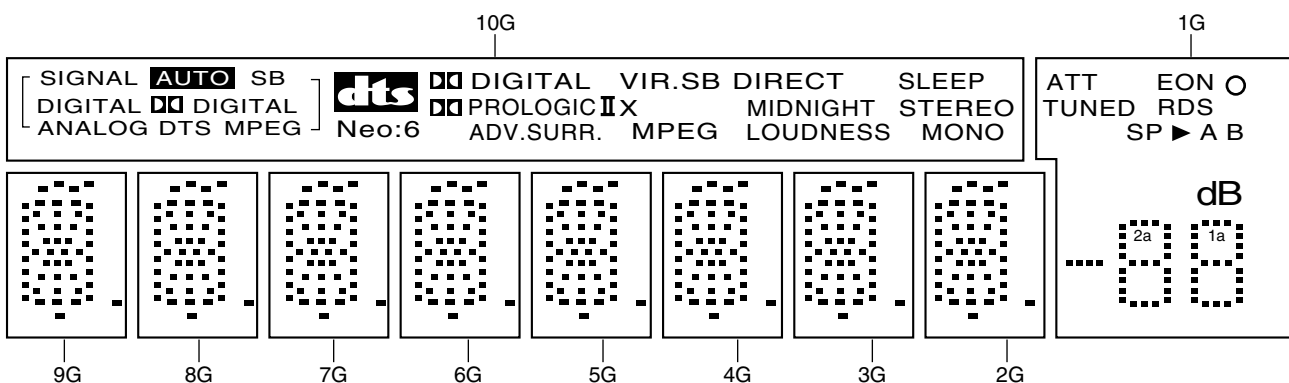
■ XAV3022 (FRONT ASSY : V401)

• FL DISPLAY

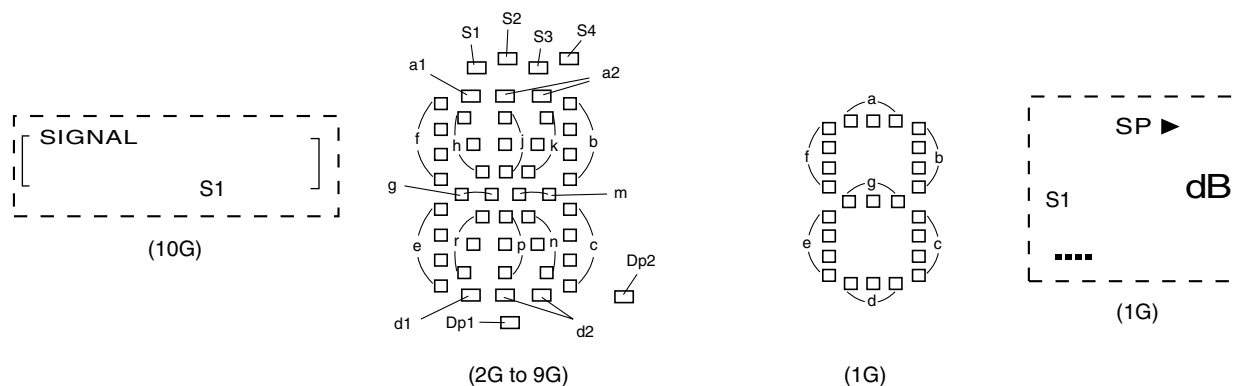
• Pin Assignment



• Grid Assignment



• Segment Designation



• Pin Connection

Pin No.	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
Connection	F2	F2	NP	NP	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2
Pin No.	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
Connection	P1	NX	NX	NX	NX	NX	NX	NX	NX	NX	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1	

NOTE 1) F1, F2..... Filament
 2) NP..... No pin
 3) NX..... No extend pin
 4) DL..... Datum Line
 5) 1G to 10G..... Grid
 6) Field of vision is a minimum of 21.8° from the lower side.

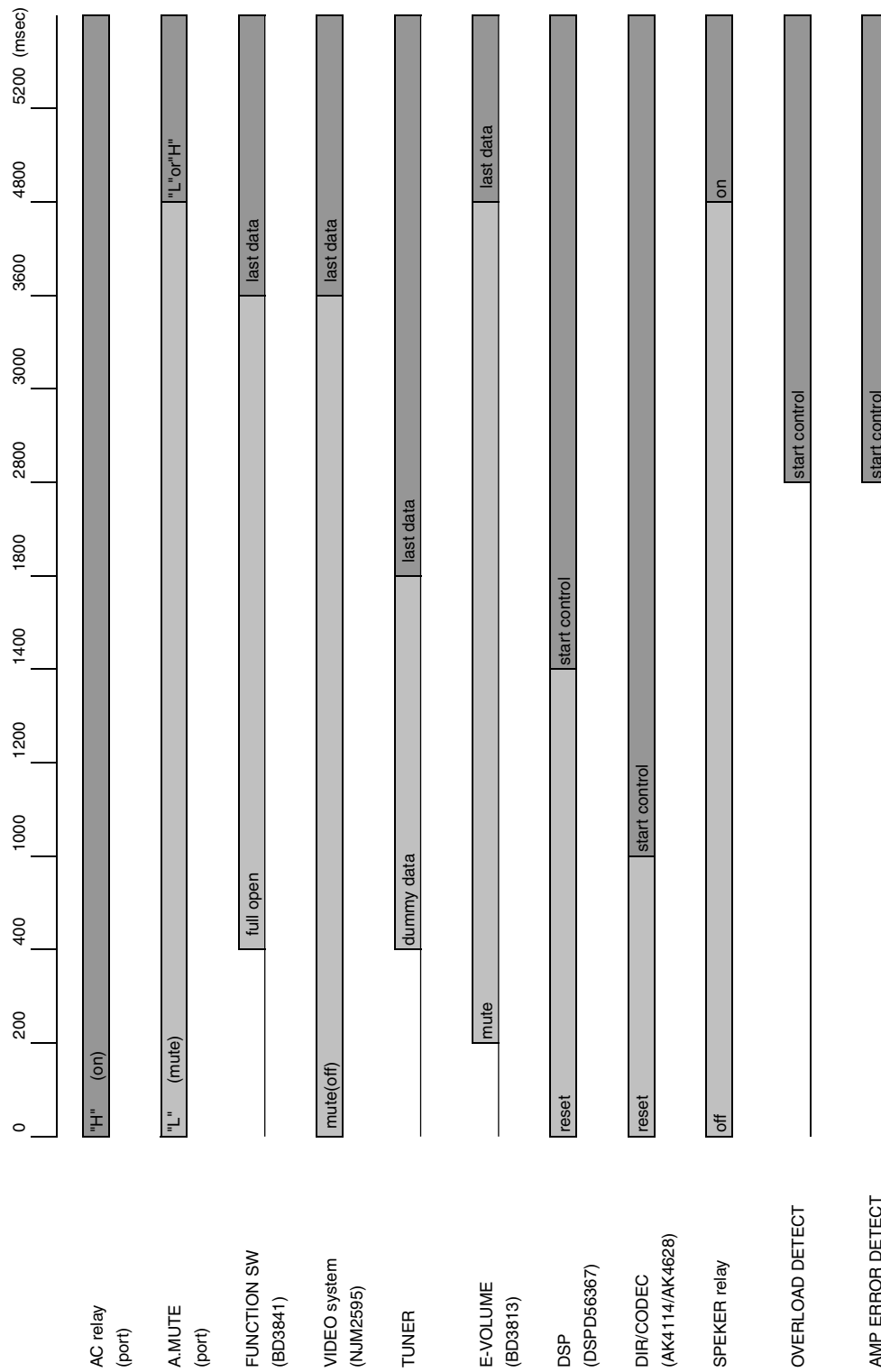
• Anode Connection

	10G	9G-2G	1G
P1	S1	a1	ATT
P2	AUTO	a2	EON
P3	SB	h	○
P4	DIGITAL	j	TUNED
P5	ANALOG	k	RDS
P6	DIGITAL (L)	b	S1
P7	DTS	f	A
P8	MPEG (L)	m	B
P9	DTS	g	1a
P10	MPEG (R)	c	1b
P11	DIGITAL (R)	e	1f
P12	PRO LOGIC II	r	1g
P13	Neo:6	p	1c
P14	VIR.SB	n	1e
P15	ADV.SURR.	d1	1d
P16	X	d2	2a
P17	DIRECT	Dp2	2b
P18	MIDNIGHT	Dp1	2f
P19	LOUDNESS	S1	2g
P20	SLEEP	S4	2c
P21	STEREO	S2	2e
P22	MONO	S3	2d

7.3 EXPLANATION

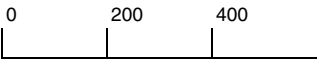
7.3.1 POWER ON AND OFF INITIAL TIMING CHART

■ POWER ON INITIAL TIMING CHART



■ POWER OFF INITIAL TIMING CHART

A



■

AC relay
(port)

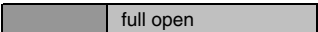


A.MUTE
(port)



B

FUNCTION SW
(BD3841)



VIDEO system
(NJM2595)



TUNER



■

E-VOLUME
(BD3813)



C

DSP
(DSPD56367)



DIR/CODEC
(AK4114/AK4628)



■

SPEKER relay
(port)



OVERLOAD DETECT



D

AMP ERROR DETECT



■

E

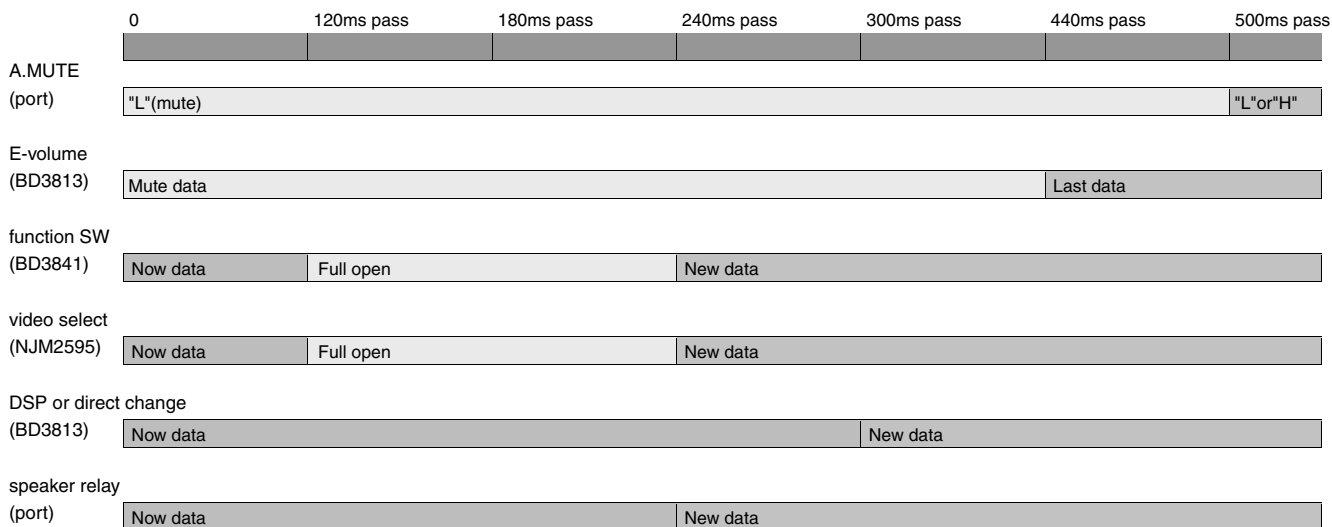
■

F

7.3.2 IC DATA TRANSMISSION TIMING CHART

IC data transmission timing chart

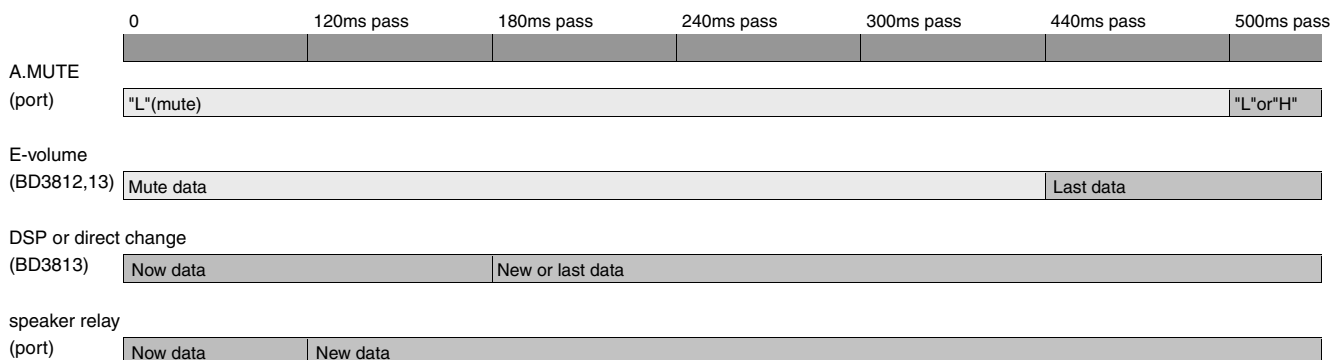
1. When function change



condition of mute cancel (system mute & E-volume mute)

- 1) when tuner mute during Tuner function
- 2) when communicate to DSP
- 3) when initial processing
- 4) when detect trouble of AMP DC
- 5) when detect overload of AMP
- 6) when Power off
- 7) when muting by key input

2. When except function change

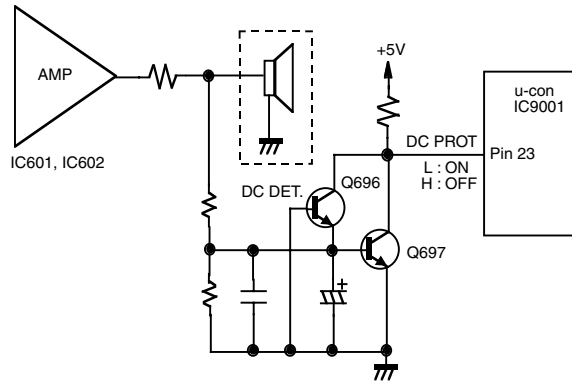


condition of mute cancel (system mute & E-volume mute)

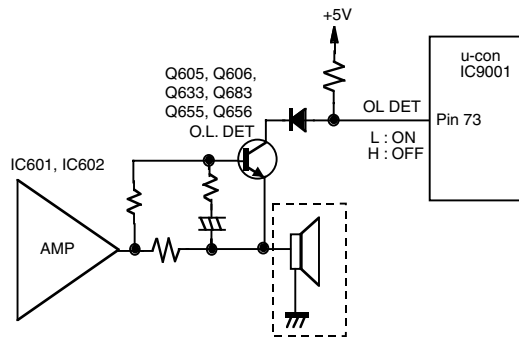
- 1) when tuner mute during Tuner function
- 2) when communicate to DSP
- 3) when initial processing
- 4) when detect trouble of AMP DC
- 5) when detect overload of AMP
- 6) when Power off
- 7) when muting by key input

7.3.3 DETECTION CIRCUIT

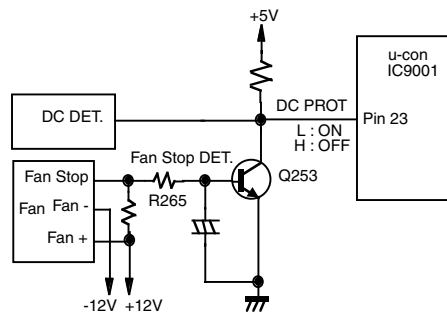
1.DC Detection Circuit Diagram:



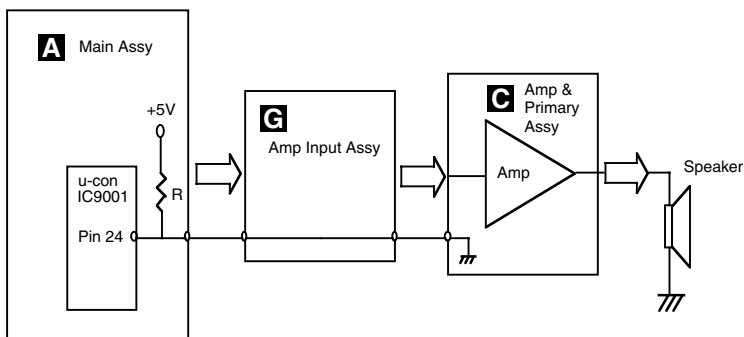
2. Overload Detection Circuit Diagram:



3. Fan Stop Protection Circuit Diagram:



4. PCB Board Protection Circuit Diagram



7.3.4 AMPLIFIER SYSTEM PROTECTION OPERATION SPECIFICATION

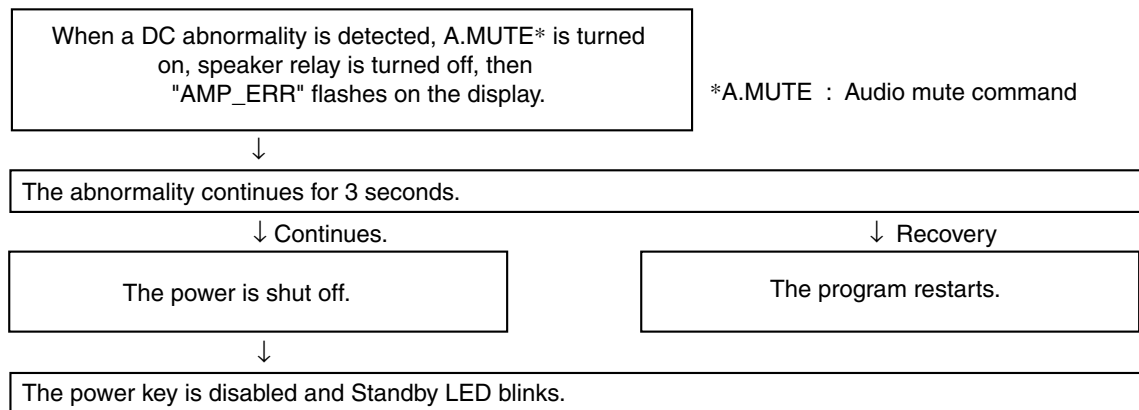
1. DC-abnormality detection

DC detection is only enabled 2 seconds after power-on.

If there is a fault in the power amplifier or a high-level signal lower than 5 Hz is input, the DC_DET port becomes "L".

If the "L" is detected, the microprocessor will perform as following flow chart.

In the case of simultaneous detection with the overload protection circuit, DC-abnormality detection is performed preferentially to overload detection.



But be switched on with the following methods.

① TESTMODE ON (A55F+A55F)

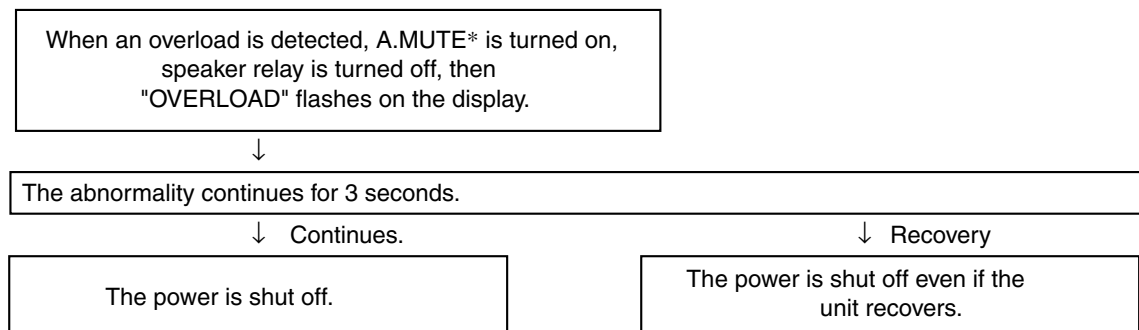
② When power off, push FRONT ENTER key + ADVANCED SURROUND key continuously 2sec.

(②: When a DC abnormality is detected and the power is shut off.)

2. Overload detection

If the speaker terminals are short-circuited or low-load driving is detected, the OL_DET port becomes "L".

If the "L" is detected, the microprocessor will perform as following flow chart.

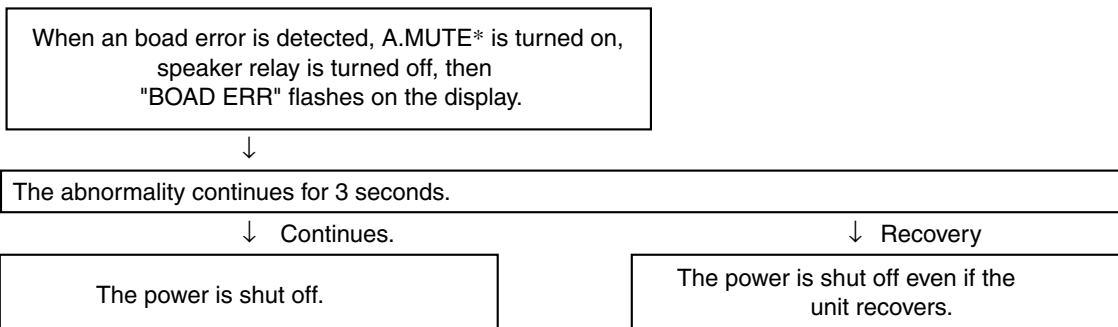


3. Board detection

If the board connection from Main Ass'y to Amp&Primary Ass'y is interrupted, the BOARD_DET port becomes "H".

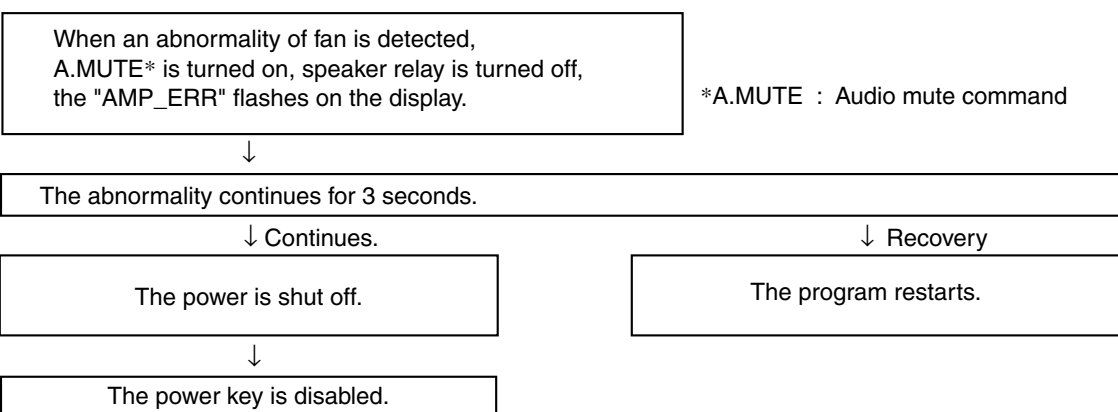
If the "H" is detected, the microprocessor will perform as following flow chart.

In the case of simultaneous detection with the overload protection circuit, Board detection is performed preferentially to DC-abnormality detection and Overload detection.



4. Fan stop detection operation flow in the DC abnormality detection

If the fan is forcibly stopped, the 'DC PROT' port becomes "L". Then an abnormality of fan is detected.



However, when the following keys are pushed so that the key input of a line and the service can be carried out, power can be on.

- ① TESTMODE ON (A55F+A55F)
- ② When power off, push FRONT ENTER key + ADVANCED SURROUND key continuously 2sec.
(Effective, only when power-off is carried out by DC detection)

7.3.5 AMPLIFIER FAILURE DIAGNOSIS FLOW CHART

■ Amplifier failure diagnosis flow chart

When DC detection is activated ("AMP_ERR" flashes on the display), failure (damage) of the power amplifier section is considered.

As DC detection and fan stop protection circuits commonly use same abnormality detection port in microprocessor, please make sure that the operation of fan motor is in normal condition before proceeding to the troubleshooting of amplifier.

Caution:

When release the lock state of power key before repair, please be careful because there is the possibility that more damages will occur when turns on the power once again!

- According to a symptom, perform the following confirmation beforehand.

- 1) Is the operation of fan motor in normal condition?
 - 2) Are there any Fuses and IC protectors open?
 - 3) After turn on the power, confirm that the supply voltage of the point that can be measured is appropriate.
 - 4) Whether the voltage of pin3 of IC601 or IC602 is equal to (VL-0.7V). If not (eg, equal to VH), then change the corresponding power pack IC601 or IC602.
 - 5) Furthermore, check the output DC voltage of each channel of power pack IC601 and IC602 to limit the failure channel and identify the defect power pack.
- After identify the failure channel, check that each part is not damaged (resistor, diode... etc. value / open / short)

7.4 CLEANING



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

Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008

9 STATION +/- buttons

Selects station presets when using the tuner.

10 TUNING +/- buttons

Selects the frequency when using the tuner.

11 LISTENING MODE buttons

STANDARD

Press for Standard decoding and to switch between the various Pro Logic IIx and Neo:6 options.

ADVANCED SURROUND

Use to switch between the various surround modes.

STEREO/DIRECT

Switches between direct and stereo playback. Direct playback bypasses the tone controls and channel levels for the most accurate reproduction of a source.

12 SIGNAL SELECT

Use to select an input signal.

13 MIDNIGHT/LOUDNESS

Use Midnight when listening to movie soundtracks at low volume. Use Loudness to boost the bass and treble at low volume.

14 SPEAKERS

Use to cycle through the speaker system: **A → B → A+B**. Also used to change the speaker impedance (Switching the speaker impedance).

15 SB CH MODE

Selects the Surround back channel mode.

16 TONE

Press this button to access the bass and treble controls, which you can then adjust with the **MULTI JOG** dial.

17 QUICK SETUP

See Using the Quick Setup.

18 VIDEO INPUT

See Connecting to the front panel video terminal.

19 DIGITAL IN

See Connecting to the front panel video terminal.

20 MCACC SETUP MIC

(VSX-D914 model only)

Connect the microphone supplied with your system to the **MCACC SETUP MIC** jack when using the auto surround setup (MCACC).

21 FL DIMMER

Use this button to make the fluorescent display (FL) dimmer or brighter.

22 INPUT ATT

Use to attenuate (lower) the level of an analog input signal to prevent distortion.

23 MPX

Press to receive a radio broadcast in mono.

24 BAND

Switches between AM and FM radio bands.

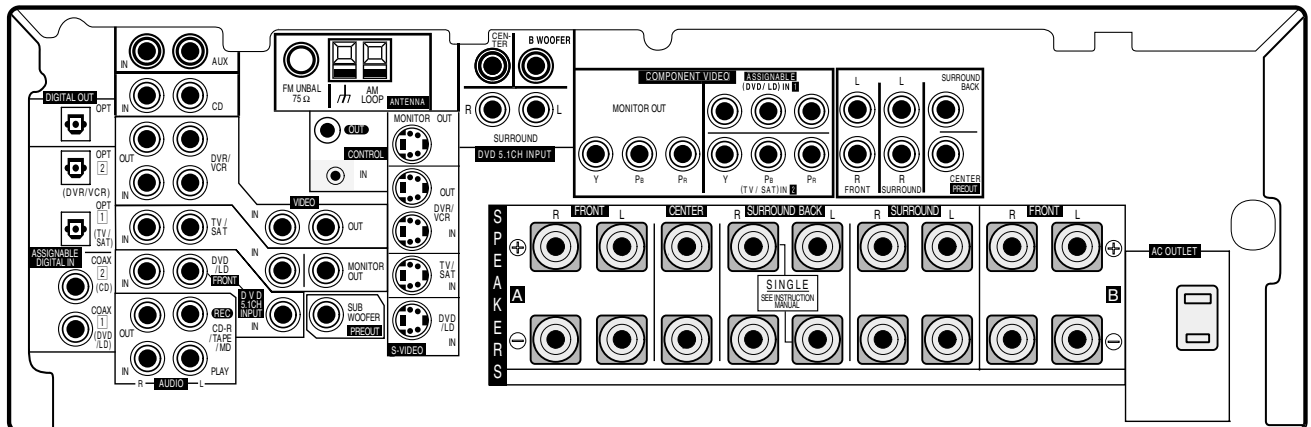
25 CLASS

Switches between the three banks (classes) of station presets.

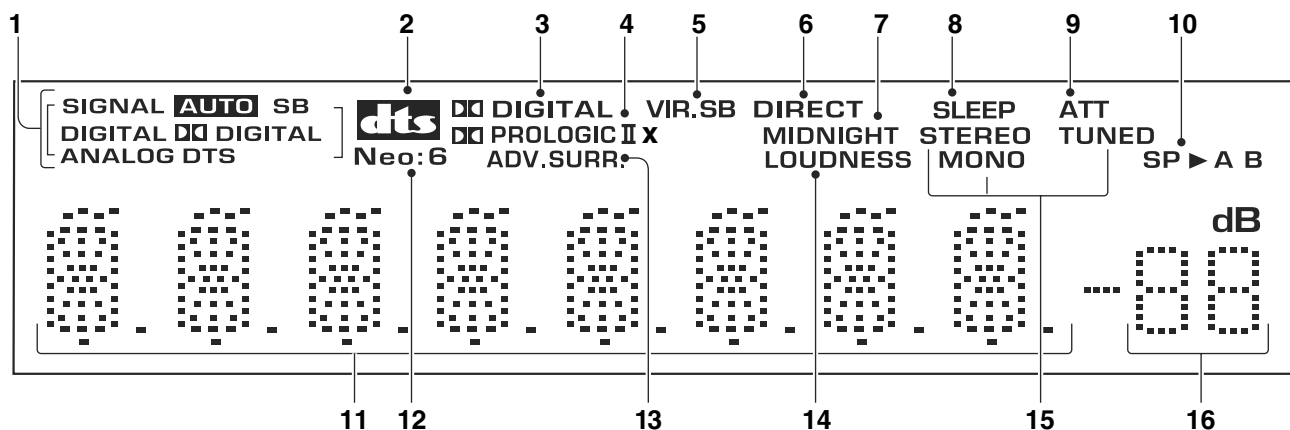
26 TUNER EDIT

Press to memorize and name a station for recall.

Rear panel



Display



1 SIGNAL SELECT indicators

Lights to indicate the type of input signal assigned for the current component:

AUTO

Lights when **AUTO** signal select is on.

SB

Depending on the source, this lights when a signal with surround back channel encoding is detected.

DIGITAL

Lights when a digital audio signal is detected.

DIGITAL

Lights when a Dolby Digital encoded signal is detected.

ANALOG

Lights when an analog signal is detected.

DTS

Lights when a source with DTS encoded audio signals is detected.

2 DTS

When the **STANDARD** mode of the receiver is on, this lights to indicate decoding of a DTS signal.

3 DIGITAL

When the **STANDARD** mode of the receiver is on, this lights to indicate decoding of a Dolby Digital signal.

4 PRO LOGIC II (x)

When the **(STANDARD)** Pro Logic II mode of the receiver is on, this lights to indicate Pro Logic II decoding. The **x** lights to indicate Pro Logic IIx decoding (see Listening in surround sound for more on this).

5 VIR.SB

Lights during Virtual surround back processing.

6 DIRECT

Lights when source direct playback is selected. Direct playback bypasses the tone controls and channel levels for the most accurate reproduction of a source.

7 MIDNIGHT

Lights during Midnight listening.

8 SLEEP

Lights when the receiver is in sleep mode.

9 ATT

Lights when **INPUT ATT** is used to attenuate (reduce) the level of the analog input signal.

10 Speaker indicator

Shows the speaker system currently in use.

11 Character display

12 Neo:6

When the **(STANDARD)** NEO:6 mode of the receiver is on, this lights to indicate NEO:6 processing.

13 ADV.SURR. (Advanced Surround)

Lights when one of the Advanced Surround modes has been selected.

14 LOUDNESS

Lights when **LOUDNESS** has been selected.

15 TUNER indicators

STEREO

Lights when a stereo FM broadcast is being received in auto stereo mode.

MONO

Lights when the mono mode is set using the **MPX** button.

TUNED

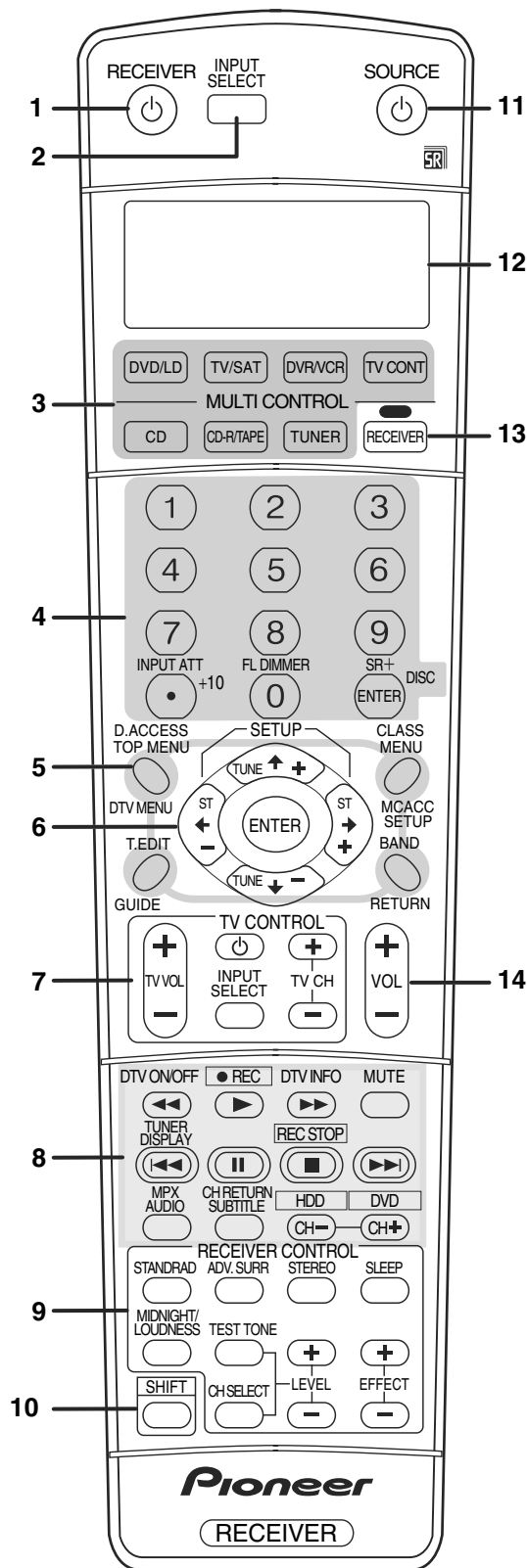
Lights when a broadcast is being received.

16 Master volume level

Shows the overall volume level. **---dB** indicates the minimum level, and **-0 dB** indicates the maximum level.

Depending on your level settings for each channel, the maximum volume can range between **-10 dB** and **-0 dB**.

Remote control



1 RECEIVER

This switches between standby and on for this receiver.

2 INPUT SELECT

Use to select the input source.

3 MULTI CONTROL buttons

Press to select control of other components (see Controlling the rest of your system).

4 Number buttons and other receiver/component controls

Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc.

DISC (ENTER) can be used to enter commands for TV or DTV, and can also be used to select a disc in a multi-CD player.

The following are accessed by pressing the **RECEIVER** button first:

INPUT ATT

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

FL DIMMER

Dims or brightens the display.

SR+

Switches the SR+ mode on/off.

5 Tuner/component control buttons/MCACC

The following button controls (except **MCACC SETUP**) can be accessed after you have selected the corresponding **MULTI CONTROL** button (**TUNER**, **DVD**, **TV/SAT**, etc.)

D. ACCESS

After pressing, you can access a radio station directly using the number buttons.

TOP MENU

Displays the disc 'top' menu of a DVD.

DTV MENU

Displays menus on a digital TV.

T. EDIT

Press to memorize and name a station for recall.

GUIDE

Displays the guides on a digital TV.

CLASS

Switches between the three banks (classes) of radio station presets.

MENU

Displays the disc menu of DVD-Video discs. It also displays TV and DTV menus.

MCACC SETUP

(Press **RECEIVER** first to access)
Use to setup your speaker system using Multi-Channel Acoustic Calibration (MCACC).

BAND

Switches between the tuner AM and FM bands.

RETURN

Press to return to the previous menu with DVDs or to select closed captioning with DTV.

6 **(TUNE/ST +/-) /ENTER**

Use the arrow buttons when setting up your surround sound system. Also used to control DVD menus/options and for deck 1 of a double cassette deck player. Use the **TUNE +/-** buttons to find radio frequencies and use **ST +/-** to find preset stations.

7 TV CONTROL buttons

These buttons are dedicated to control the TV assigned to the **TV CONT** button. Thus if you only have one TV to hook up to this system assign it to the **TV CONT MULTI CONTROL** button. If you have two TVs, assign the main TV to the **TV CONT** button.

TV

Use to turn on/off the power of the TV.

TV VOL +/-

Use to adjust the volume on your TV.

INPUT SELECT

Use to select the TV function.

TV CH +/-

Use to select channels.

8 Component control buttons

The main buttons (, , etc.) are used to control a component after you have selected it using the **MULTI CONTROL** buttons.

The controls above these buttons can be accessed after you have selected the corresponding **MULTI CONTROL** button (for example **DVD/LD**, **DVR/VCR** or **TV/SAT** (when connected to a DTV)).

DTV ON/OFF

Switches a digital TV on/off.

DTV INFO

Use to bring up information screens on a digital TV.

MUTE

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

TUNER DISPLAY

Displays TV information on-screen.

MPX (Press **TUNER** first to access)

Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

AUDIO

Changes the audio language or channel on DVD discs.

CH RETURN

Returns to the last channel selected with DTV, SAT and some TVs.

SUBTITLE

Displays/changes the subtitles included in multilingual DVD-Video discs.

CH +/-

Use to select channels when using a TV, VCR, DVR, etc.

The following DVR controls can be accessed by pressing **SHIFT**:

● **REC**

Starts recording.

REC STOP

Stops recording.

HDD/DVD

These buttons switch between the hard disk and DVD controls for DVD/HDD recorders.

9 RECEIVER CONTROL buttons

STANDARD

Press for Standard decoding and to switch between the various Pro Logic IIx and Neo:6 options).

ADV. SURR.

Use to switch between the various surround modes.

STEREO

Switches between direct and stereo playback. Direct playback bypasses the tone controls and channel levels for the most accurate reproduction of a source.

SLEEP

Use to put the receiver in sleep mode and select the amount of time before the receiver turns off.

MIDNIGHT/LOUDNESS

Switches to Midnight or Loudness listening.

TEST TONE

Sounds the test tone when setting up the surround sound of the receiver.

CH SELECT

Selects a speaker when setting up the surround sound of the receiver.

LEVEL +/-

Adjusts the levels of the surround sound of the receiver.

EFFECT +/-

Adds or subtracts the amount of effect with different advanced surround modes.

10 SHIFT

Press to access the DVR controls above the component control buttons.

11 SOURCE

Press to turn on/off other components connected to the receiver.

12 Character display (LCD)

This display shows preset codes and other information when transmitting control signals.

The following commands are shown when you're setting the remote to control other components (see Controlling the rest of your system):

SETUP

Indicates the setup mode, from which you choose the options below.

PRESET

See Selecting preset codes directly.

LEARN (VSX-D914 model only)

See Programming signals from other remote controls.

DIRECT F

See Direct function.

ERASE (VSX-D914 model only)

See Erasing one of the remote control button settings.

RESET

See Erasing all of the remote control presets.

READ ID

See Confirming preset codes.

13 RECEIVER

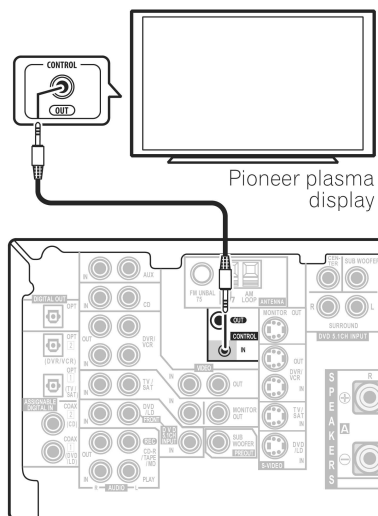
Switches the remote to control the receiver (used to select the features above the number buttons (**INPUT ATT**, etc). Also use this button to set up surround sound.

14 MASTER VOLUME +/-

Use to set the listening volume.

Using this receiver with a Pioneer plasma display

If you have a Pioneer plasma display (models PRO-1110HD, PRO-910HD, PDP-5040HD, PDP-4340HD), you can use an SR+ cable (see note below) to connect it to this unit and take advantage of various convenient features, such as automatic video input switching of the plasma display when the input is changed.

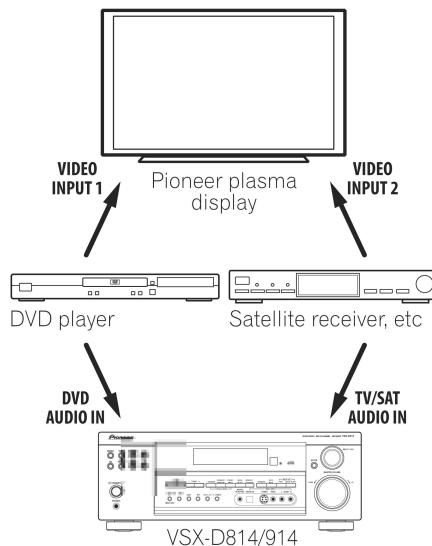


Important

- If you connect to a Pioneer plasma display using an SR+ cable, you will need to point the remote control at the plasma display remote sensor to control the receiver. In this case, you won't be able to control the receiver using the remote control if you switch the plasma display off.

- Use a 3-ringed miniplug SR+ cable to connect the **CONTROL IN** jack of this receiver with the **CONTROL OUT** of your plasma display.

Before you can use the extra SR+ features, you need to make a few settings in the receiver. See *SR+ control for Pioneer plasma displays* for detailed instructions.



To make the most of the SR+ features, you should connect your source components (DVD player, etc.) in a slightly different way to that described in this chapter. For each component, connect the video output directly to the plasma display, and just connect the audio (analog and/or digital) to this receiver.



Note

- The 3-ringed SR+ cable from Pioneer is commercially available under the part number ADE7095. Contact the Pioneer Customer Support division for more information on obtaining an SR+ cable.

SERVICE PARTS

- SR+ mini-plug cable (ADE7095)

