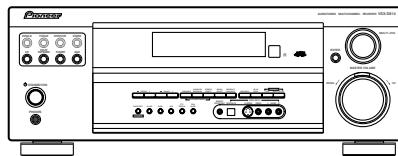


Service Manual



VSX-D814-K

ORDER NO.
RRV2929

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D814-K VSX-D814-S

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

Model	Type	Power Requirement	Remarks
VSX-D814-K	MYXJI	AC220-230V	
VSX-D814-S	MYXJI	AC220-230V	



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

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan

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SAFETY INFORMATION

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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

B 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)

C 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.

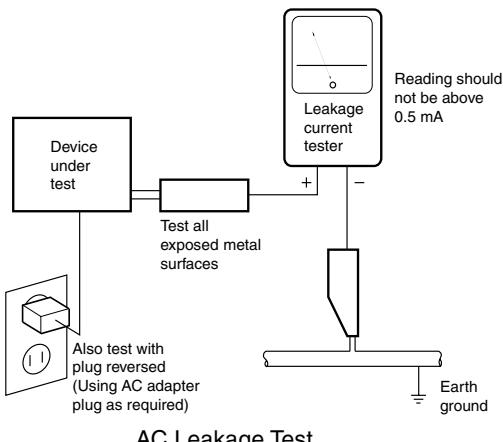
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

D 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.



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.

F

[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 power output (stereo)

Front. 100 W (DIN 1kHz, THD 1.0%, 8 Ω)

Continuous power output (surround)

Front. 100 W per channel (1kHz, 1.0%, 8 Ω)

Center 100 W (1kHz, 1.0%, 8 Ω)

Surround 100W per channel
(1kHz, 1.0%, 8 Ω)

Surround Back 100 W (1kHz, 1.0 %, 8 Ω)

*The above specifications are applicable when
the power supply is 230 V.*

Input (Sensitivity/Impedance)

CD, DVR/VCR, CD-R/TAPE/MD,

DVD/LD, TV/SAT 200 mV/47 kΩ

Frequency response

CD, DVR/VCR, CD-R/TAPE/MD, DVD/LD,

TV/SAT 5 Hz to 100,000 Hz^{+0 -3} dB

Output (Level/Impedance)

DVR/VCR REC, CD-R/TAPE/

MD REC 200 mV/2.2 kΩ

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

DIN (Continuous rated power output /

50mW)

CD, DVR/VCR, CD-R/TAPE/MD,

DVD/LD, TV/SAT 88/64 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⇒ MONITOR 5 Hz to 7 MHz^{+0 -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^{+0 -3} dB

Signal-to-Noise Ratio 55 dB

FM Tuner Section

Frequency Range 87.5 MHz to 108 MHz

Usable Sensitivity Mono:13.2dBf, IHF
(1.3 μV/ 75Ω)

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 60dB

(400 kHz)

Stereo Separation 40 dB (1 kHz)

Frequency Response 30Hz to 15kHz

(±1 dB)

Antenna Input (DIN) 75 Ω unbalanced

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AM Tuner Section

Frequency Range	531 kHz to 1,602 kHz
Sensitivity (IHF, Loop antenna)	350 μ V/m
Selectivity	25 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surface.

B

Miscellaneous

Power Requirements . . AC 220-230 V, 50/60Hz
Power Consumption

VSX-D814	280 W
In standby	0.5 W
Dimensions	420 (W) x 158 (H) x 401 (D) mm
Weight (without package)	

VSX-D814 10.6 kg

Furnished Parts

AM loop antenna . . . . .	.1
FM wire antenna . . . . .	.1
Dry cell batteries (AA size IEC R6)	2
Remote control1
Microphone	1
Microphone stand1
Operating instructions	1



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

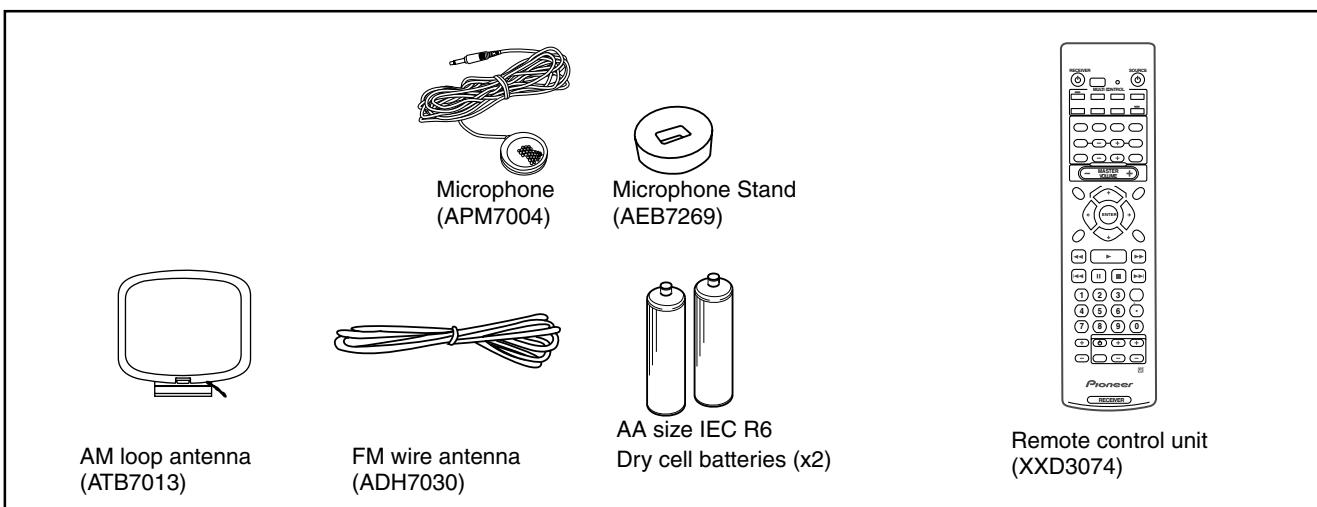
Cleaning the unit

- 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.

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

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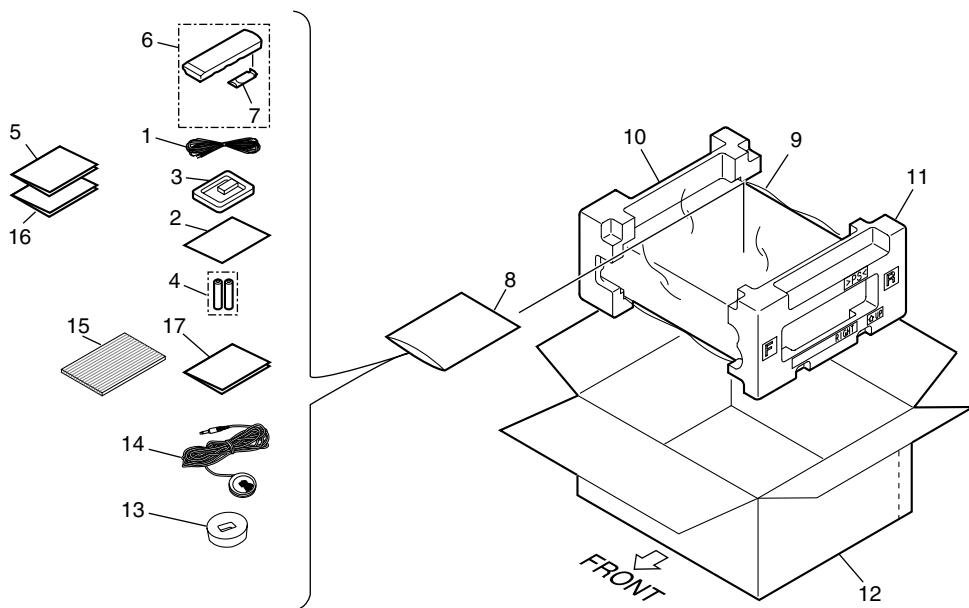
Accessories

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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  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 SECTION Parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	FM wire antenna	ADH7030	11	Right Pad V1	XHA3142
NSP 2	Warranty Card	ARY7065	12	Packing Case	See Contrast table(2)
3	AM loop antenna	ATB7013	13	MIC Stand 45	AEB7269
NSP 4	Alkaline Dry cell batteries (AA/R6)	VEM1031	14	Microphone Assy	APM7004
5	Operating instructions (English/Italian)	XRE3079	NSP 15	Accessory Board R6	XHB3008
6	Remote Control Unit	XXD3074	16	Operating instructions (Dutch/Spanish)	XRC3117
7	Battery Cover	AZA7424	17	Operating instructions (French/German)	XRC3118
NSP 8	Literature Bag	AHG1180			
9	Packing Sheet	AHG7069			
10	Left Pad V1	XHA3141			

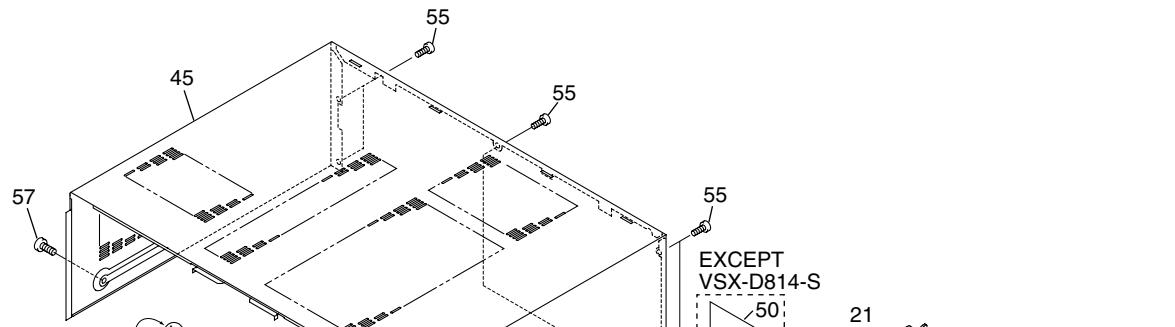
(2) CONTRAST TABLE

VSX-D814-K/MYXJI and VSX-D814-S/MYXJI are constructed the same except for the following :

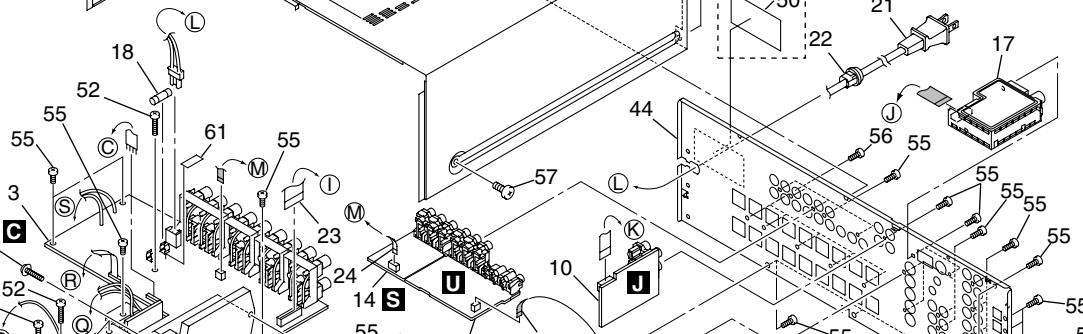
Mark	No.	Description	VSX-D814-K/MYXJI	VSX-D814-S/MYXJI
	12	Packing Case	XHD3397	XHD3398

2.2 EXTERIOR SECTION

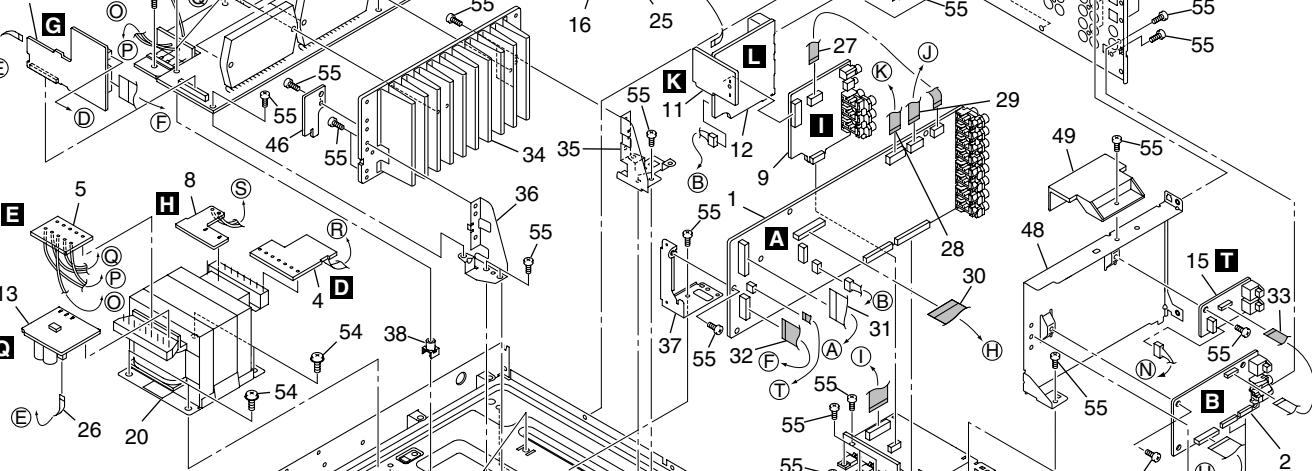
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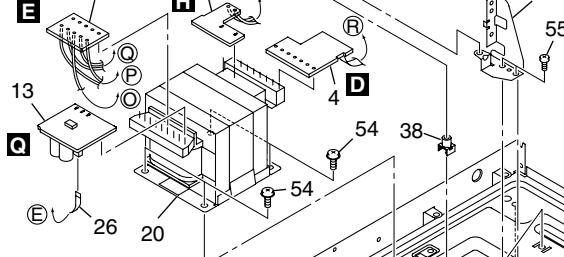
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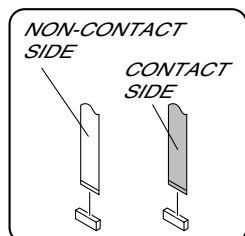
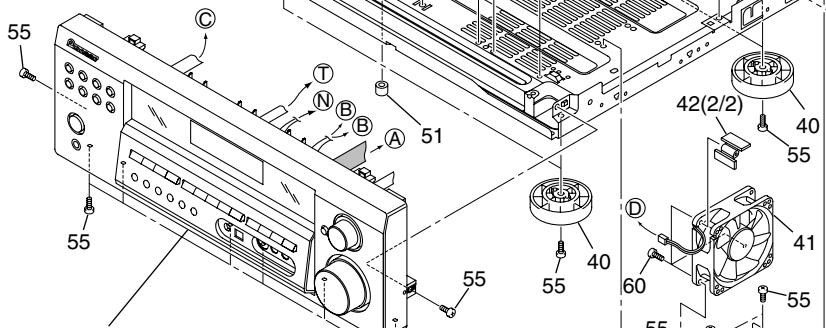
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EXTERIOR SECTION Parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	MAIN Assy	XWK3123	36	H/S Angle Front	XNG3094
2	DSP Assy	AWX1082	37	PCB Angle R5	XNG3073
3	AMP & PRIMARY Assy	XWZ3793	38	PCB Mold	AMR2533
4	TRANS2 Assy	XWZ3811	NSP	Under Base R6	XNA3012
5	TRANS3 Assy	XWZ3814	40	Insulator	PNW2766
6	REGULATOR Assy	XWZ3799	41	DC Fan Motor	XXM3007
7	AMP INPUT Assy	XWZ3804	42	Fan Holder R6	XMR3066
8	TRANS1 Assy	XWZ3807	43	REG Support R6	XNG3093
9	VIDEO Assy	XWZ3753	44	Rear Panel 814K	XNC3247
10	5.1CH Assy	XWZ3760	45	Bonnet	See Contrast table(2)
11	B TO B Assy	XWZ3781	NSP	HOLDER Assy	XWZ3821
12	S. VIDEO Assy	XWZ3776	46	FFC Holder R6	XMR3072
13	TRANS4 Assy	XWZ3778	47	Shield A R6	XNG3068
14	PRE-OUT Assy	XWZ3779	48	FFC Cover R6	XMR3060
15	DIGITAL IN Assy	XWZ3773	NSP	N Label	See Contrast table(2)
16	COMPONENT Assy	XWZ3777	NSP	Spacer	AEB7092
17	FM/AM TUNER UNIT	AXX7170	52	Screw	BBZ30P200FTC
△ 18	FU1 Fuse (T3.15A)	REK1027	53	Screw 3x23	XBA3012
19	•••••		54	Screw	FBT40P080FNI
△ 20	T1 Power Transformer	XTS3083	55	Screw	BBZ30P080FTC
△ 21	AC Power Cord	VDG1080	56	Screw	BBT30P100FCC
22	Cord Stopper	CM-22B	57	Screw	See Contrast table(2)
23	J36 23P F.F.C/30V	XDD3102	58	•••••	
24	J46 7P F.F.C/30V	XDD3105	NSP	BINDER Assy	XWZ3818
25	J38 5P F.F.C/30V	XDD3104	60	Screw	BPZ30P120FTC
26	J22 3P F.F.C/30V	XDD3107	61	Fuse Card	AAX7493
27	J33 13P F.F.C/30V	XDD3150			
28	J48 8P F.F.C/30V	XDD3151			
29	J34 11P F.F.C/30V	XDD3149			
30	J43 19P F.F.C/30V	XDD3126			
31	J31 17P F.F.C/30V	XDD3118			
32	J35 19P F.F.C/30V	XDD3101			
33	J37 10P F.F.C/30V	XDD3127			
NSP	34 Heatsink R6A CORR	XNH3026			
35	H/S Angle Rear	XNG3095			

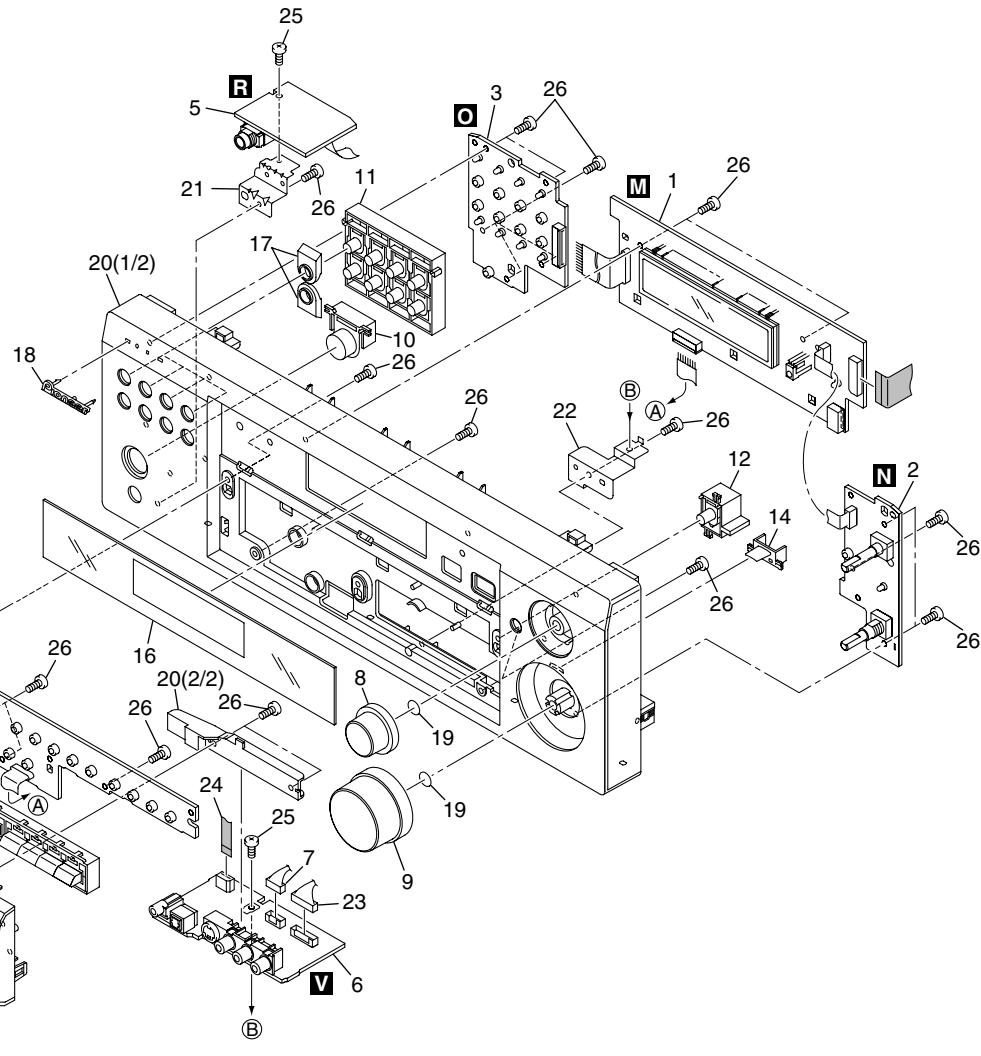
(2) CONTRAST TABLE

VSX-D814-K/MYXJI and VSX-D814-S/MYXJI are constructed the same except for the following :

Mark	No.	Description	VSX-D814-K/MYXJI	VSX-D814-S/MYXJI
NSP	45	Bonnet K V1	XZN3148	Not used
	45	Bonnet S V1	Not used	XZN3149
	50	N Label 814K/MY	XAL3199	Not used
	57	Screw	FBT40P080FZK	FBT40P080FNI

1 2 3 4
2.3 FRONT PANEL SECTION

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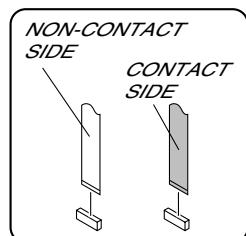


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FRONT PANEL SECTION Parts List

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	F. VIDEO & OPT & MIC Assy	XWZ3771	21	Earth Plate R5 HP	XNG3066
7	J29 8P Shield Cable	XDX3022	22	Earth Plate F1 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	XDD3125
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)	27	Input Cover V1	See Contrast table(2)
13	Sub BTN V1	See Contrast table(2)			
14	B Lens R6	XAK3352			
15	Sub Panel	See Contrast table(2)			

(2) CONTRAST TABLE

VSX-D814-K/MYXJI and VSX-D814-S/MYXJI are constructed the same except for the following :

Mark	No.	Description	VSX-D814-K/MYXJI	VSX-D814-S/MYXJI
	8	JOG Knob V1K	XAB3038	Not used
	8	JOG Knob V1P	Not used	XAB3040
	9	VOL Knob V1K	XAB3039	Not used
	9	VOL Knob V1P	Not used	XAB3041
	10	Standby BTN V1K	XAD3173	Not used
	10	Standby BTN V1PL	Not used	XAD3191
	11	FUNC BTN V1K	XAD3174	Not used
	11	FUNC BTN V1S	Not used	XAD3180
	12	Enter BTN V1K	XAD3175	Not used
	12	Enter BTN V1S	Not used	XAD3181
	13	Sub BTN V1K	XAD3176	Not used
	13	Sub BTN V1S	Not used	XAD3177
	15	Sub Panel 814K/MY	XAK3440	Not used
	15	Sub Panel 814S/MY	Not used	XAK3430
	18	Pioneer Badge B	XAM3006	VAM1129
	20	FRT Panel 814K/MY	XMB3140	Not used
	20	FRT Panel 814S/MY	Not used	XMB3141
	27	Input Cover V1K	XAK3429	Not used
	27	Input Cover V1P	Not used	XAK3441

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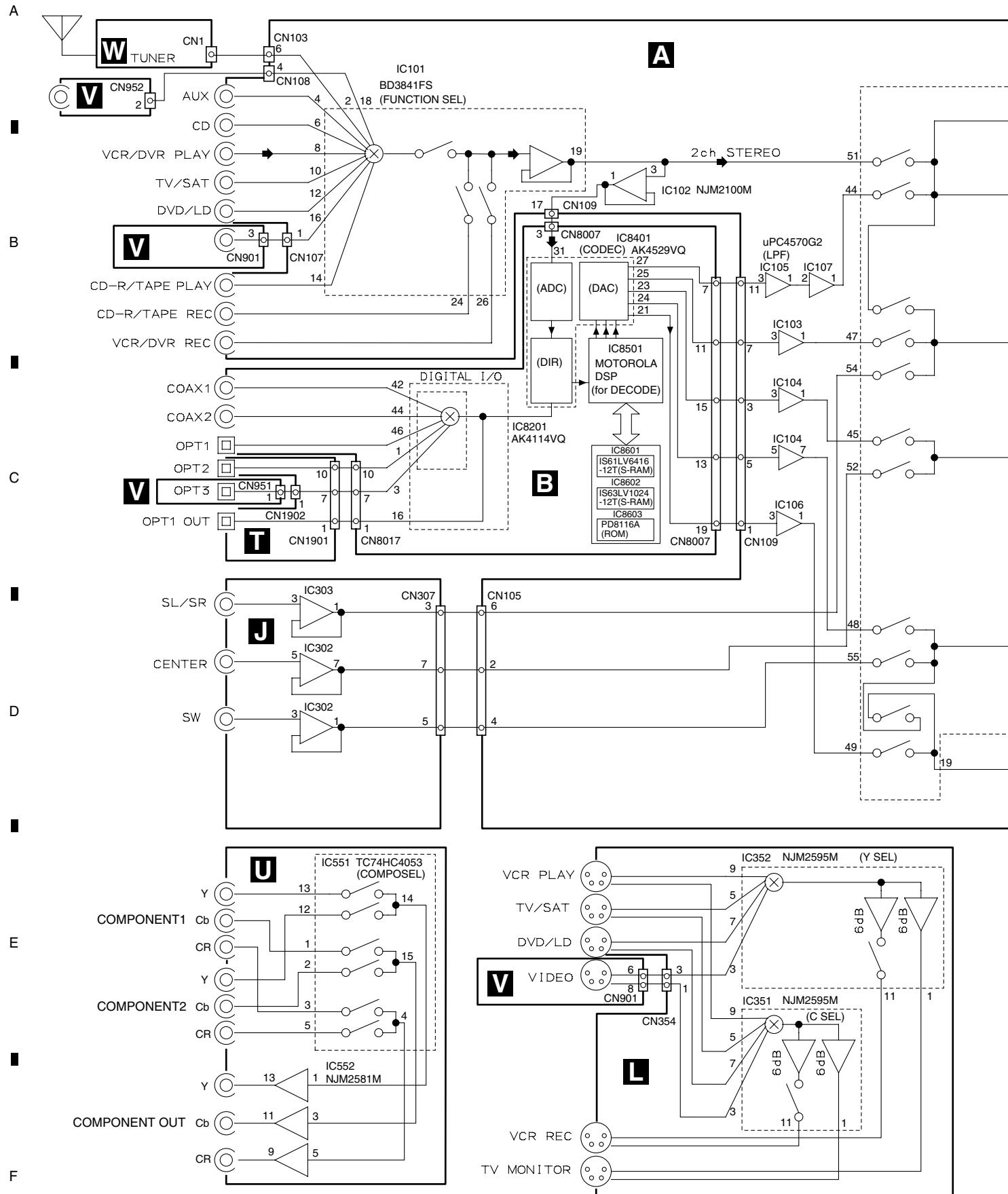
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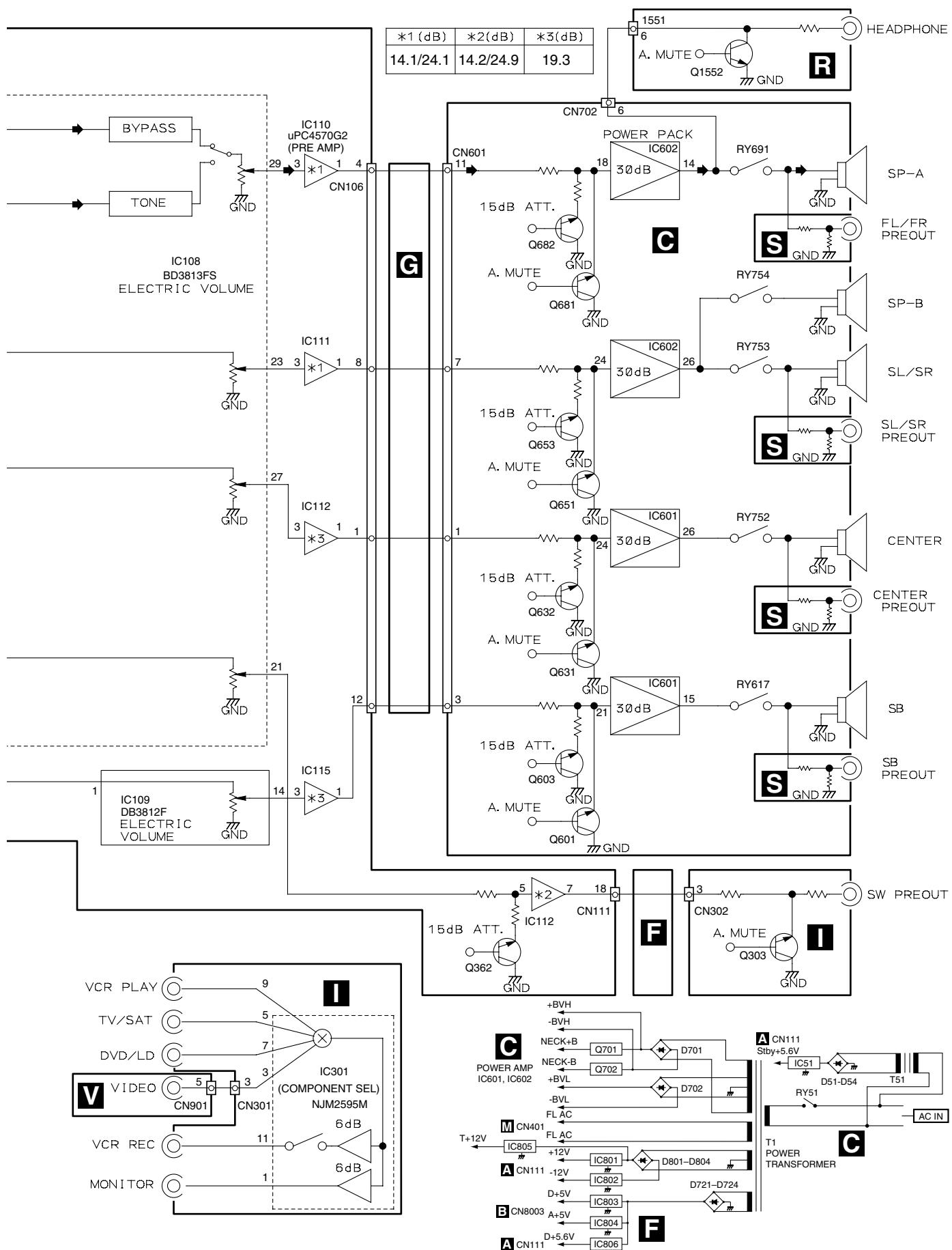
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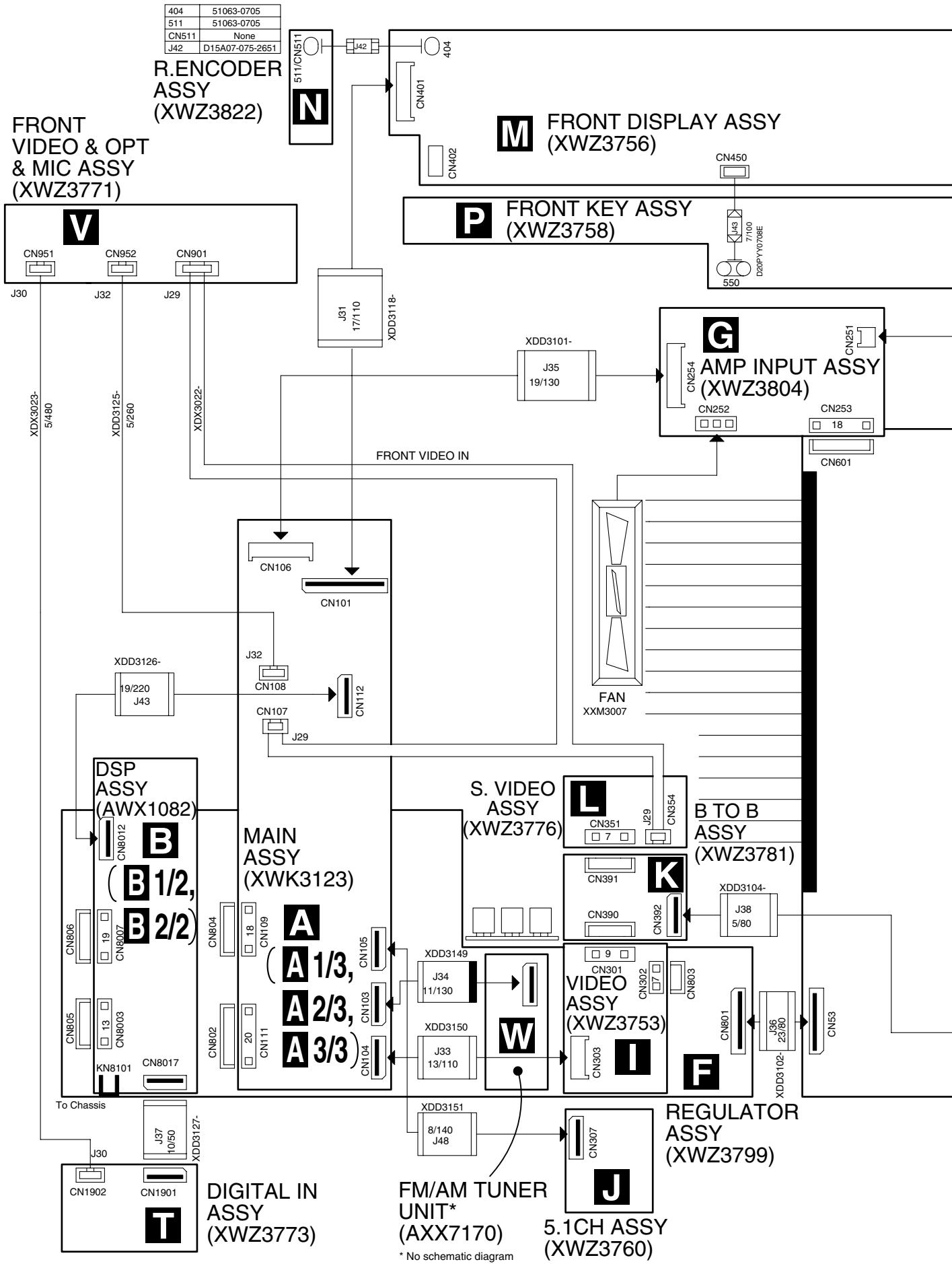
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

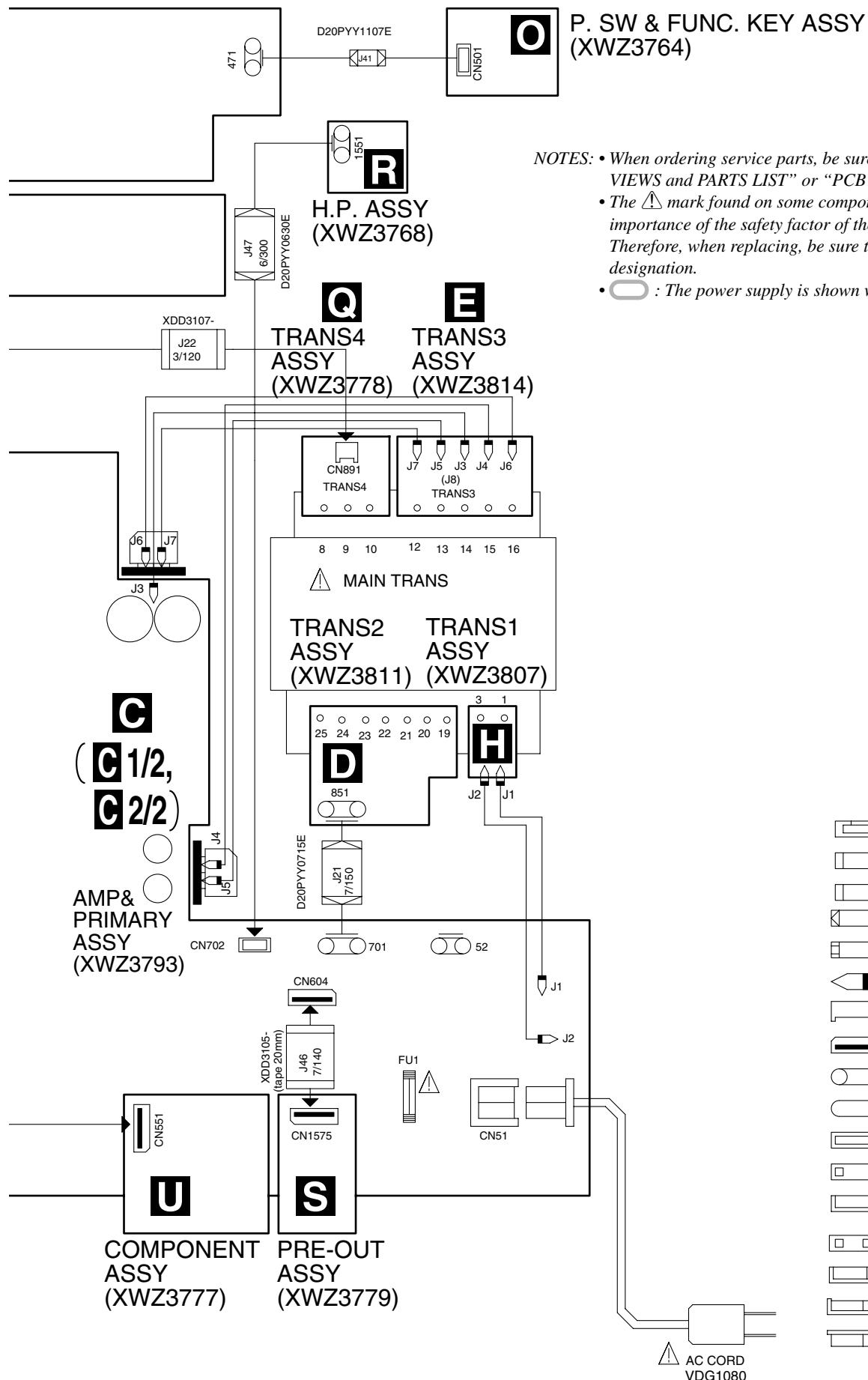
3.1 BLOCK DIAGRAM





3.2 OVERALL WIRING CONNECTION DIAGRAM





3.3 MAIN ASSY (1/3)

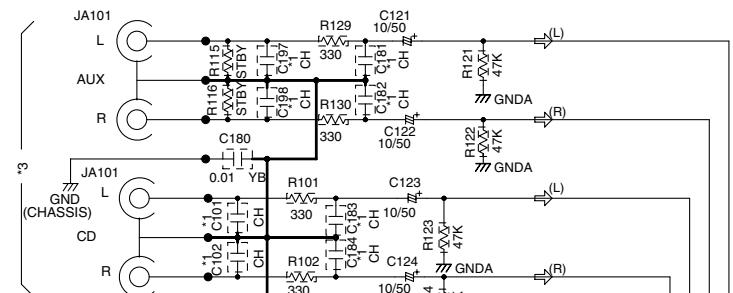
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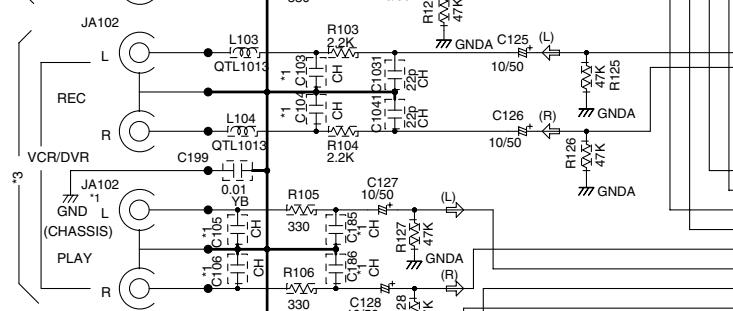
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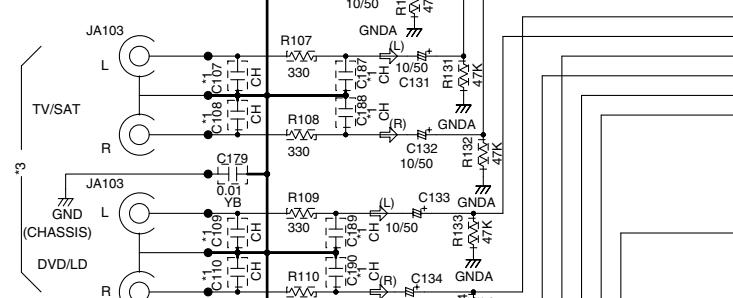
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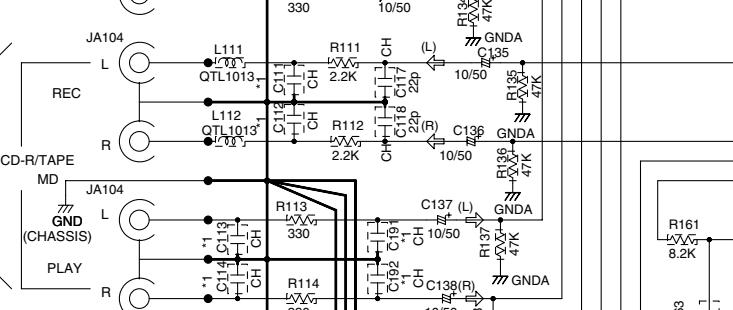
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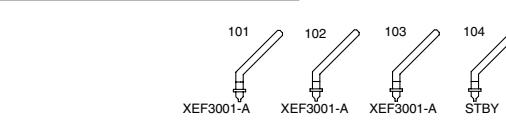
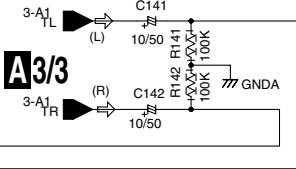
D



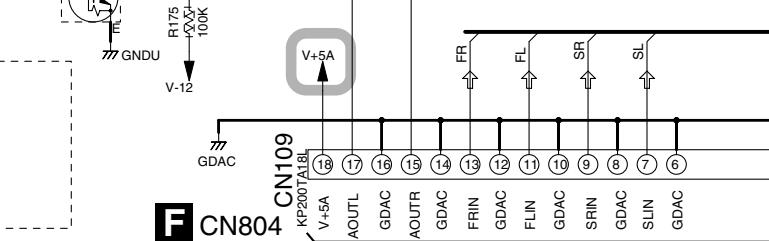
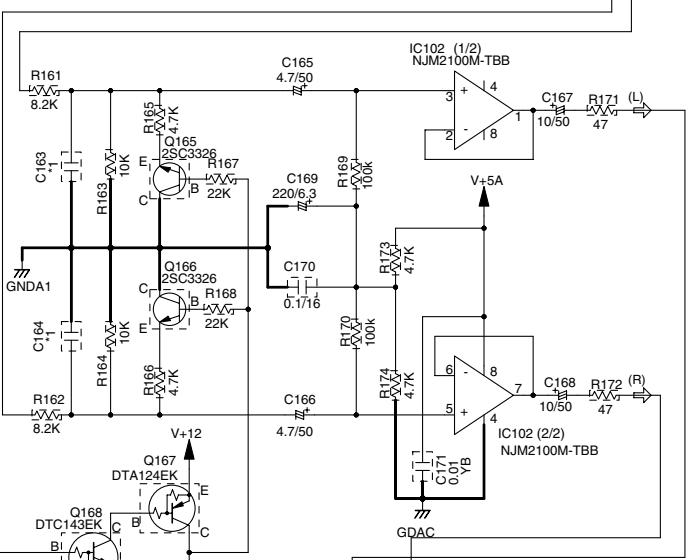
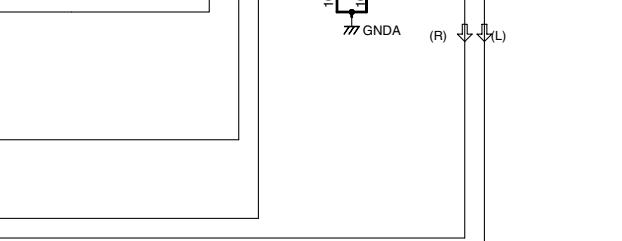
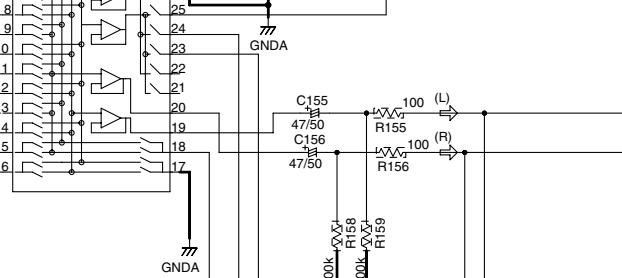
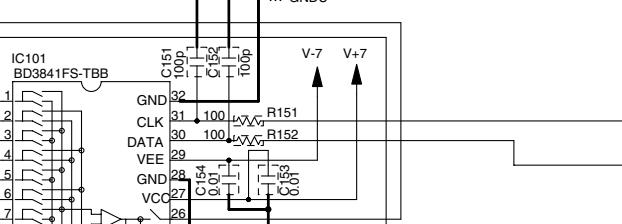
V CN901

V CN952

A 1/3



FUNCTION



VSX-D814-K

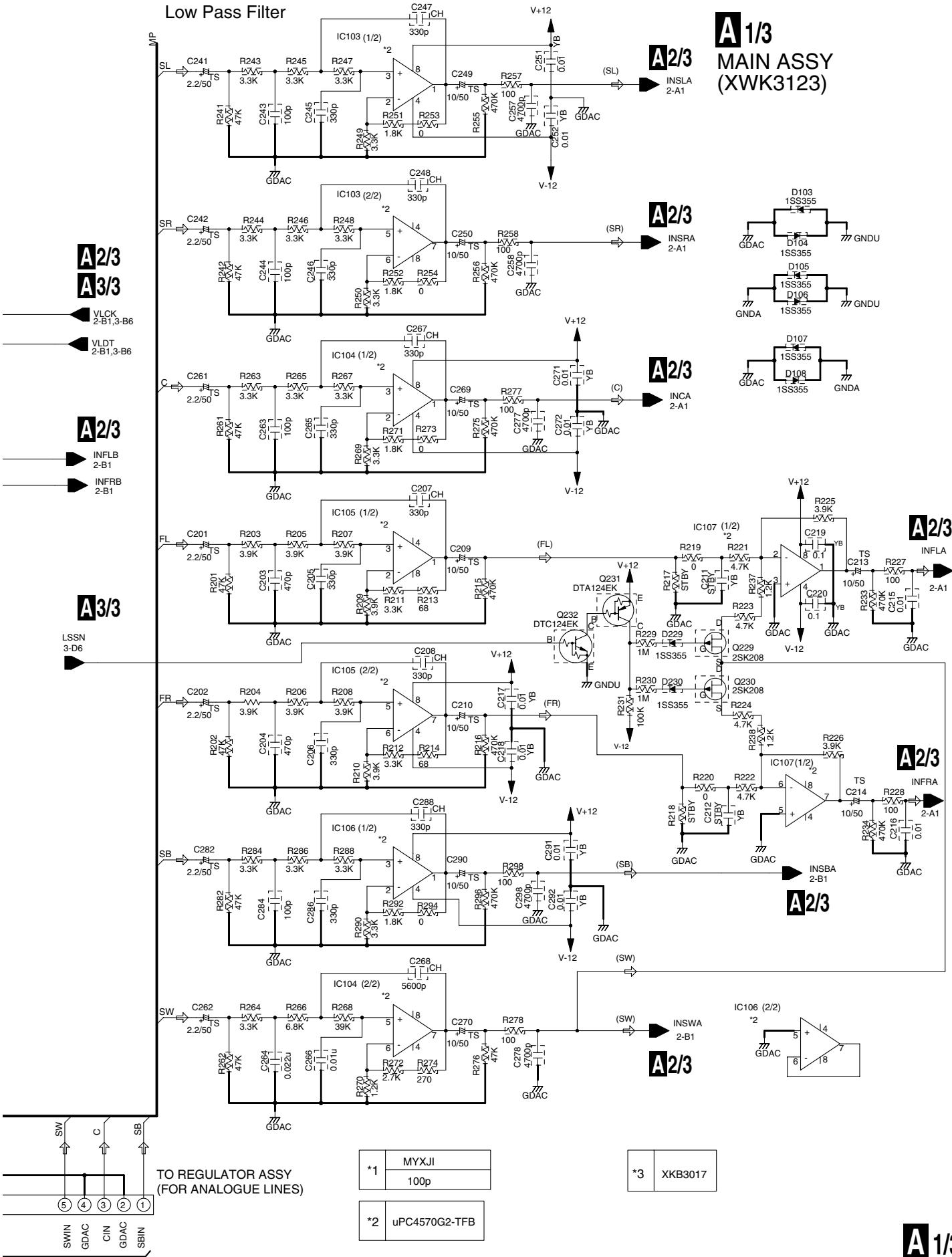
NOTES: NO INDICATED PARTS IS....
 RESISTOR: RS1/16S***J-T, RS1/10S***J-T
 CEMICAL CAPASITOR: CEAT***M***T-TS
 CERAMIC CAPASITOR: CCSRCH****50-T
 CKSRYB****50-T
 (SQ):CKSQ.CCSQ

() : AUDIO SIGNAL FLOW

16

VSX-D814-K

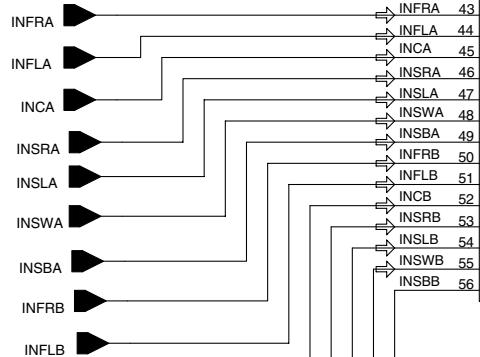
1 2 3 4

Low Pass Filter

3.4 MAIN ASSY (2/3)

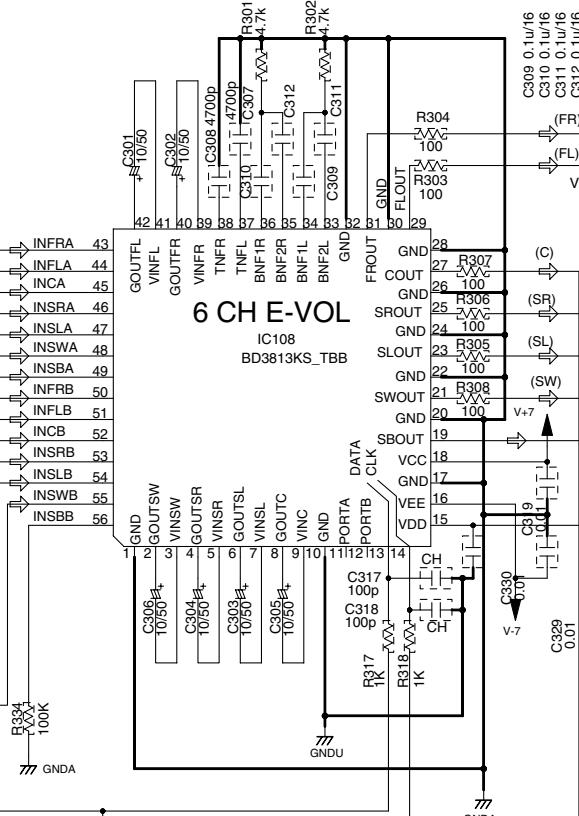
A

A 2/3 MAIN ASSY (XWK3123)

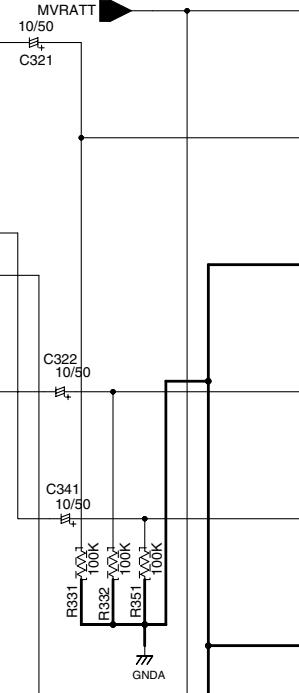


B A1/3

6 CH E-VOL
IC108
BD3813KS_TBB



A3/3



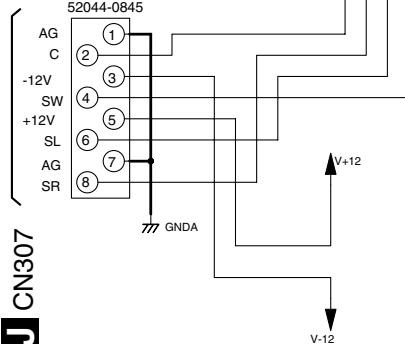
C

A1/3
A3/3

VLDT

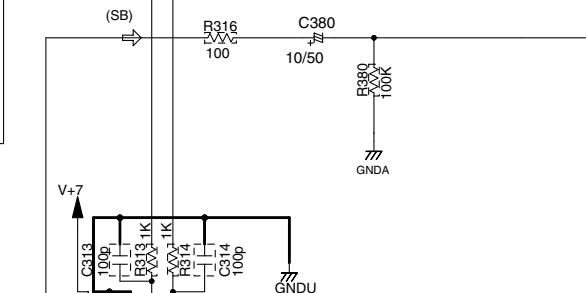
VLCK

TO 5.1 INPUT ASSY
CN105
52044-0845



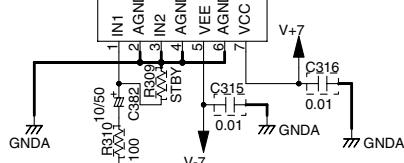
D

J CN307



2 CH E-VOL (SB CH)

E



NOTE

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

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

→ : AUDIO SIGNAL FLOW

VSX-D814-K

F

A 2/3

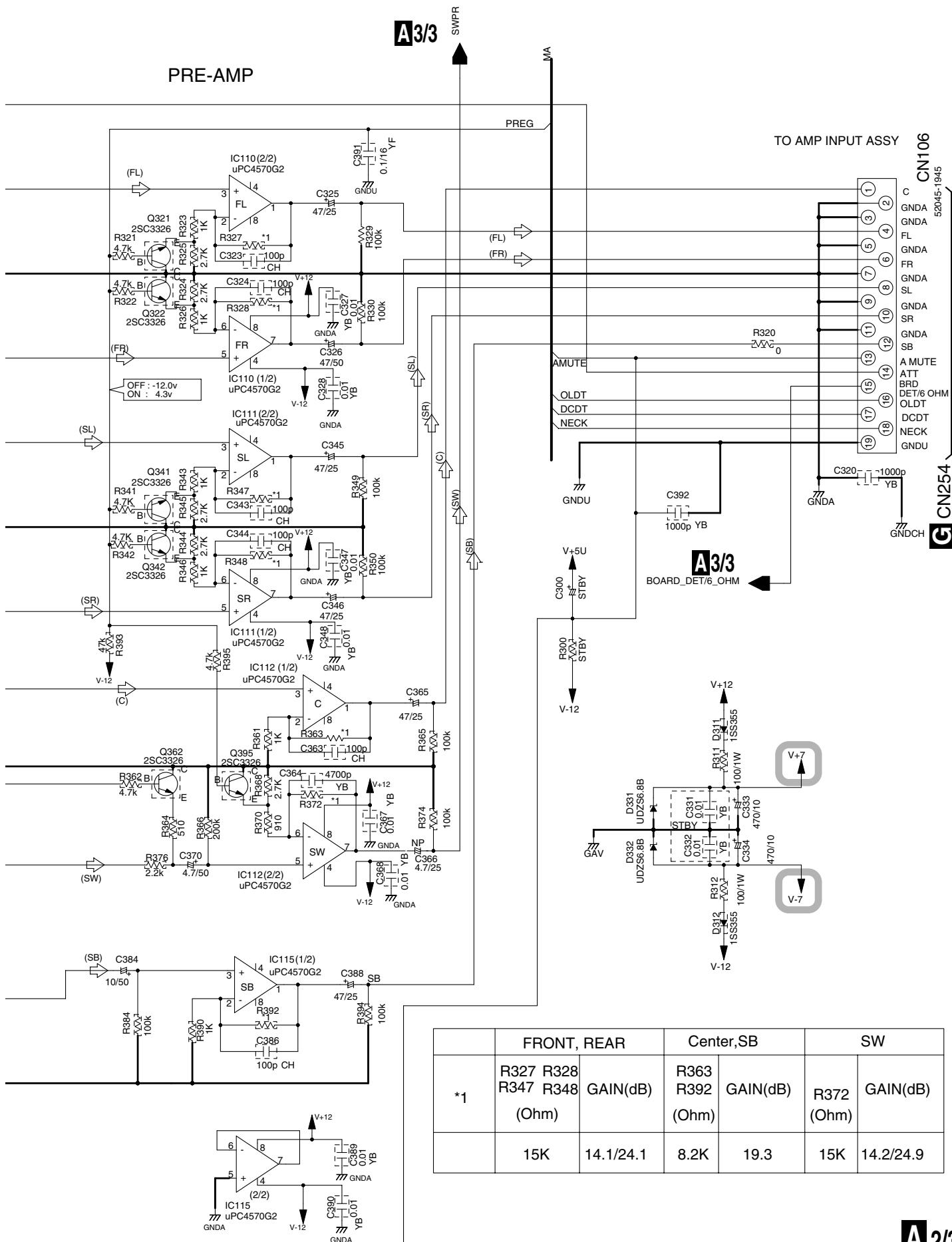
18

1

2

3

4



3.5 MAIN ASSY (3/3)

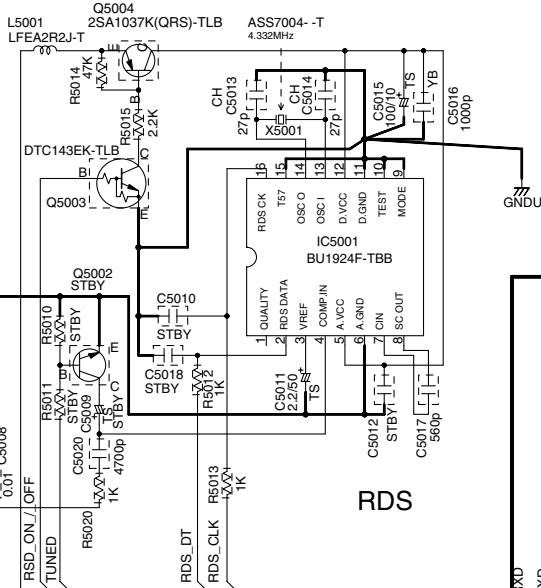
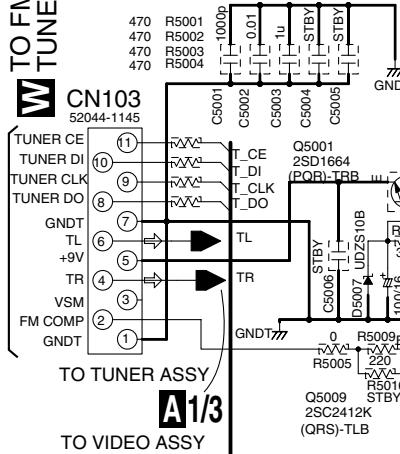
1

2

3

4

A TO FM/AM TUNER UNIT



B

TO VIDEO ASSY

CN104

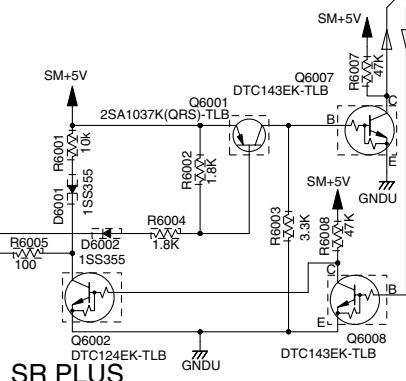
52044-1345

VIDEO1	V1
VIDEO2	V2
VIDEO3	V3
AMUTE	
SWDET	
SROUT	
SRIN	
RMC	
FUR	
4053A	4053A
4053 INH	4053INH
SRRXD	
SRTXD	

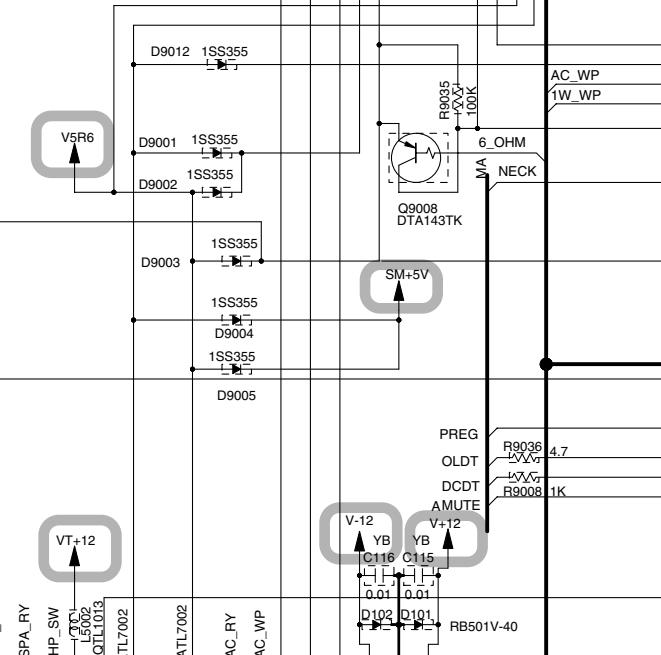
I CN303

*1	R9023	R9024	R9025	R9026
VSX-D814/MYXJI	4.7K	4.7K	-	6.2K

C

I CN303

D



E

*3 R9042, R9043, R9044 : 10K

NOTE

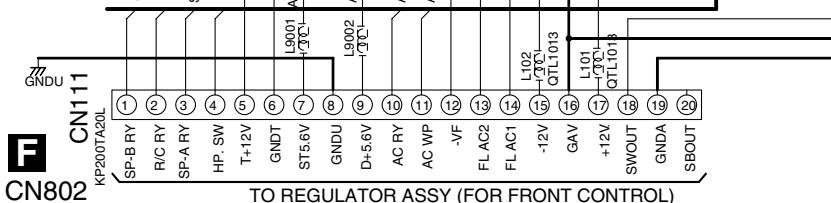
1. RESISTORS

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

2. CAPACITORS

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

⇒ : AUDIO SIGNAL FLOW



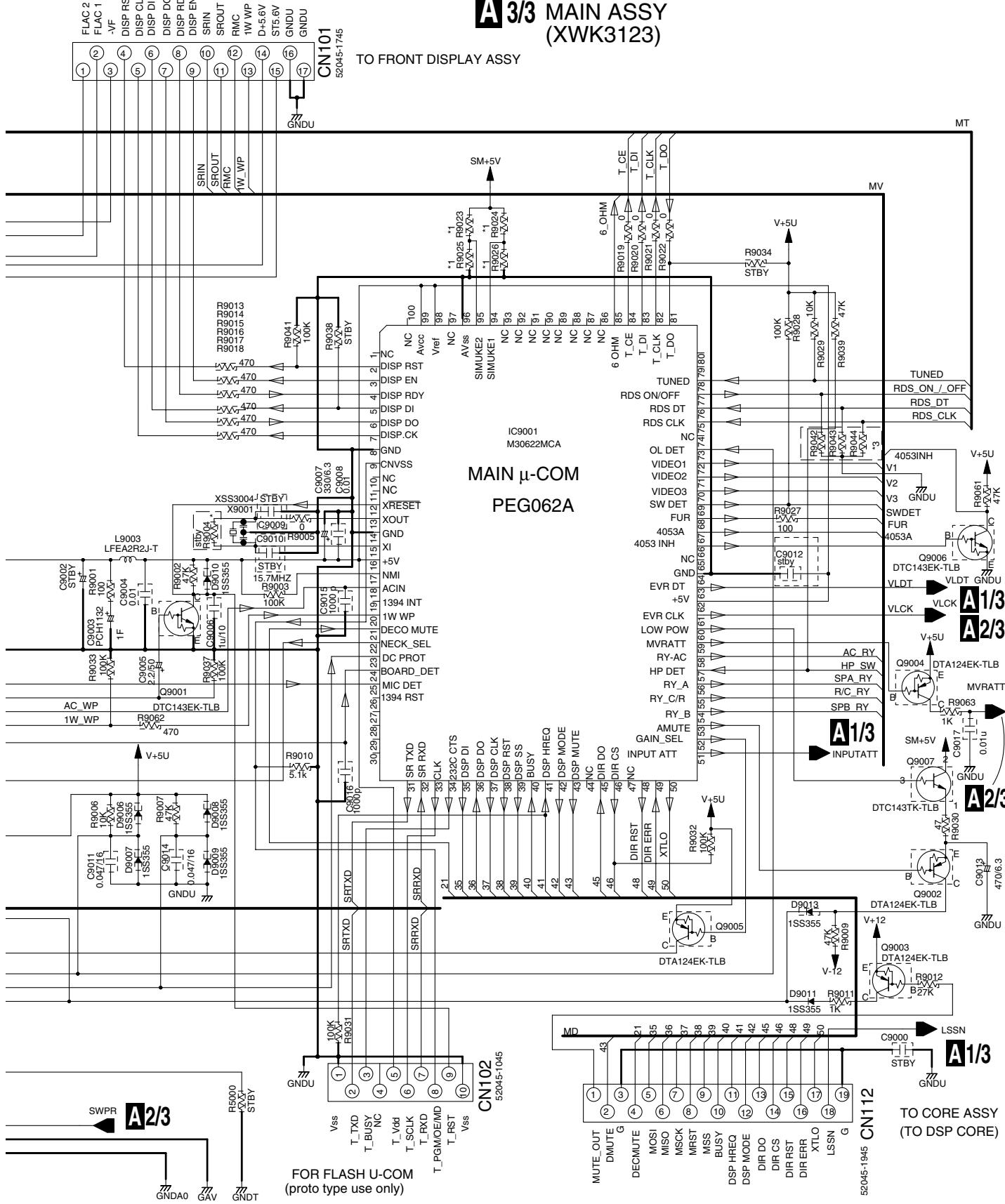
20

VSX-D814-K

3

4

M CN401

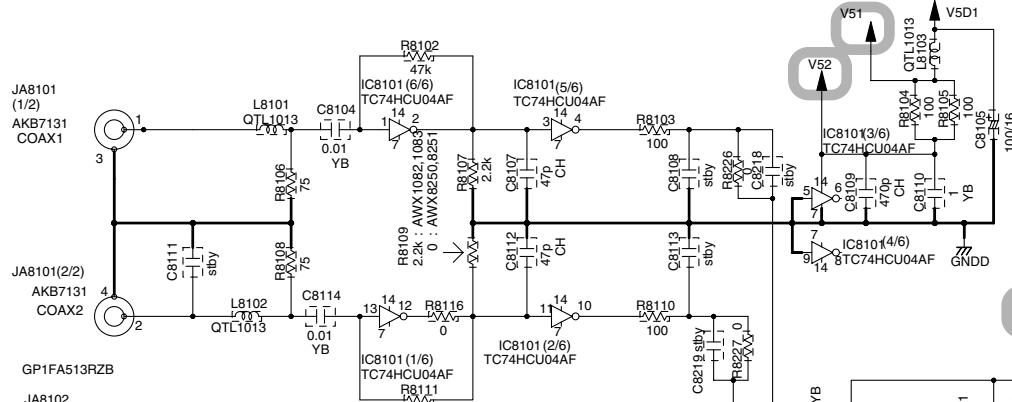


FOR FLASH U-COM
(proto type use only)

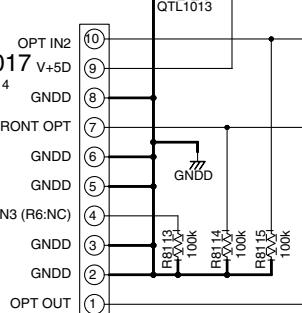
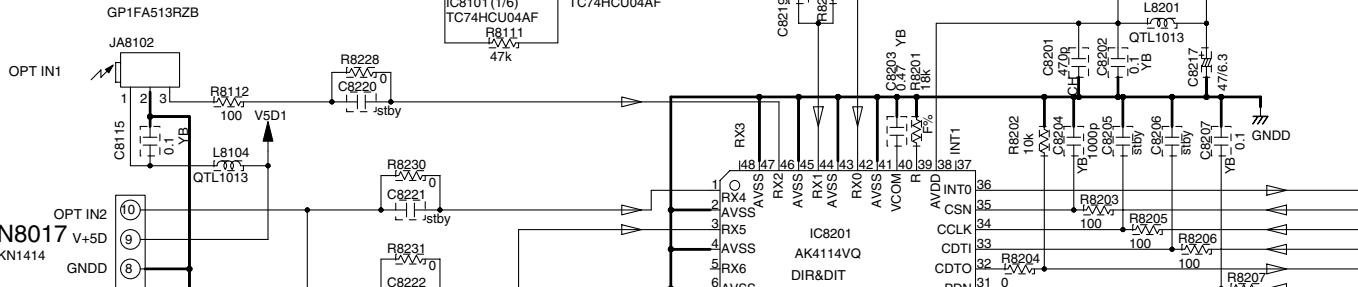
VSX-D814-K

3.6 DSP ASSY (1/2)

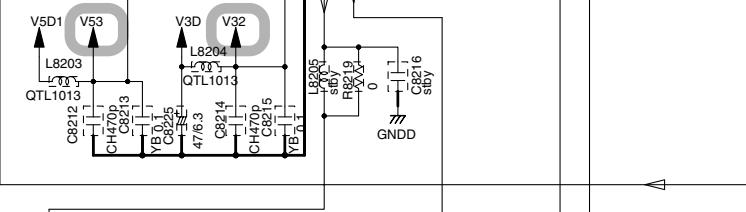
A



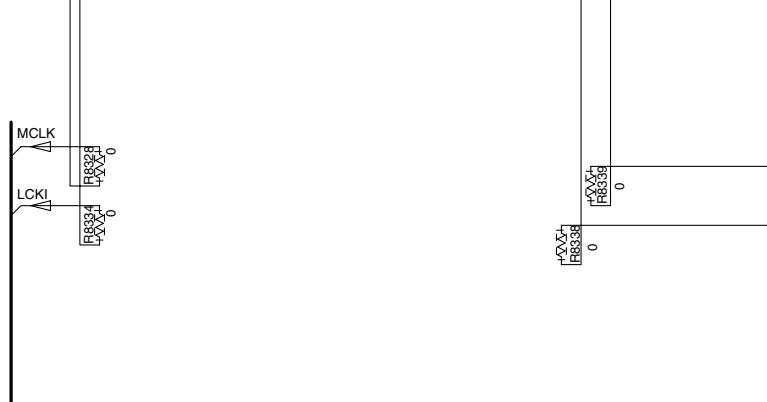
B



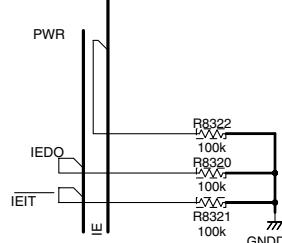
D



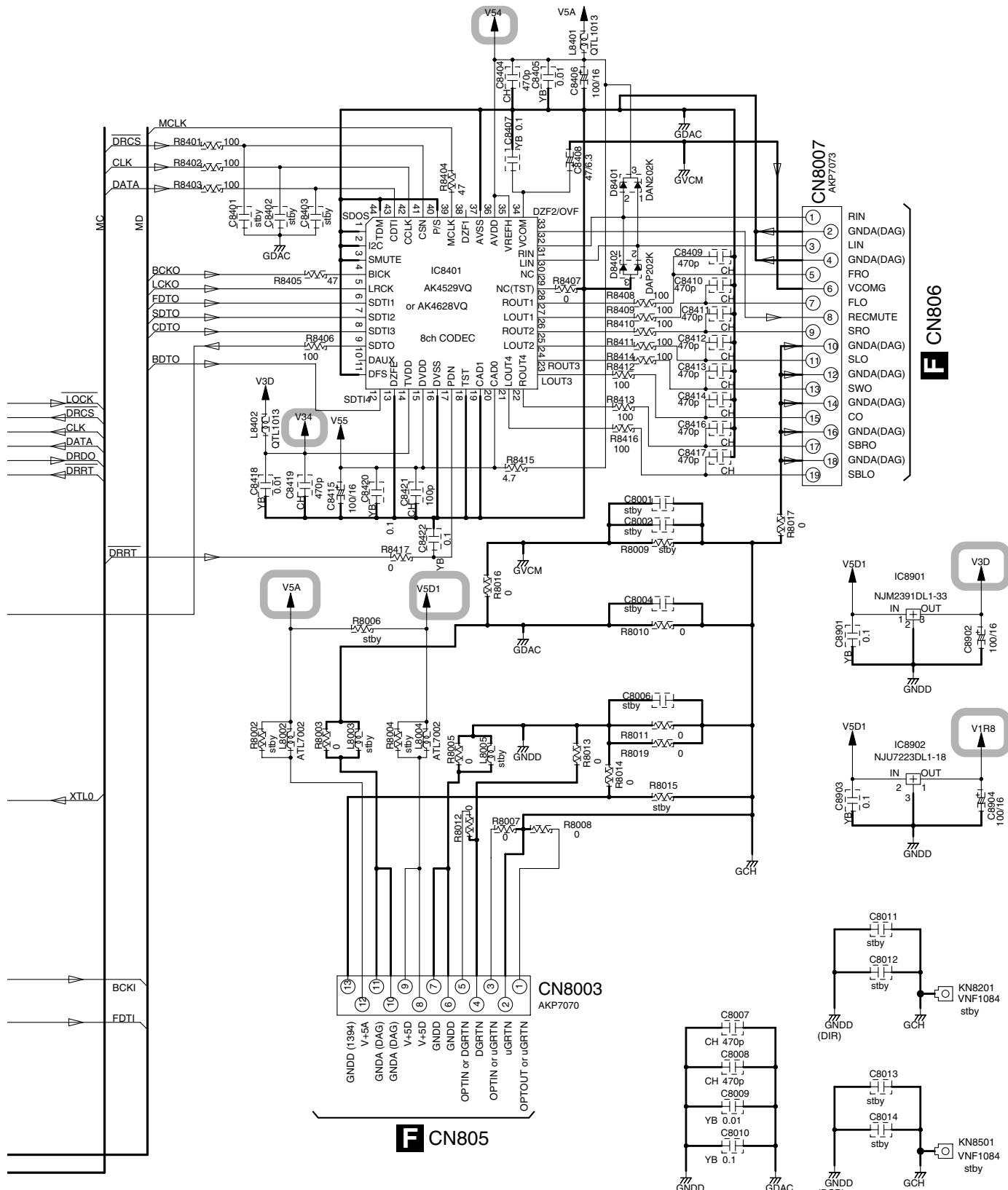
1



5



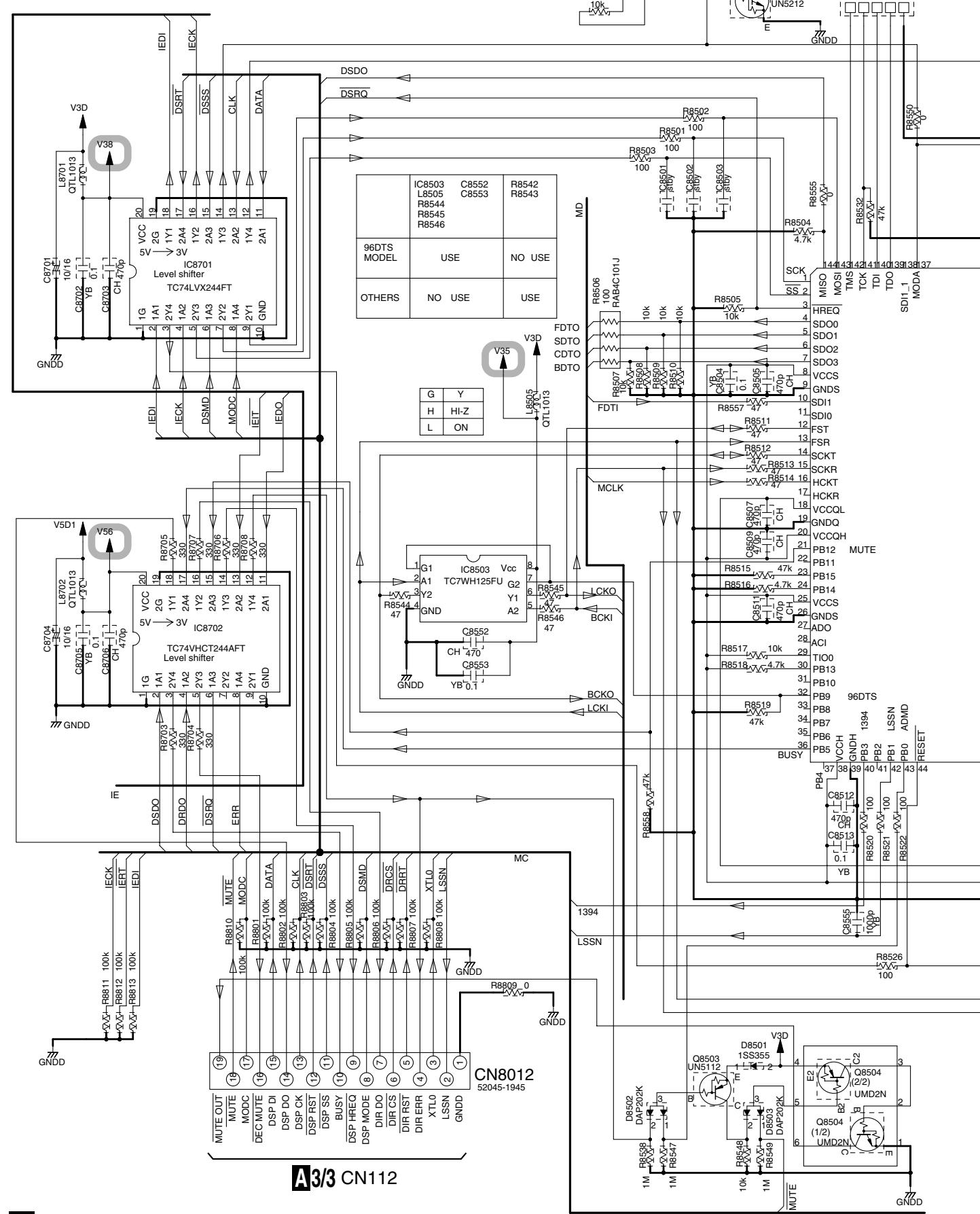
B 1/2



NOTES: - - - -
 NO INDICATED PARTS IS...
 CCSRCH***50-T
 CKSRYB***50-T
 CKSRYB33K16-T
 CKSRYB104K16-T
 CKSRYB105K6R3-T
 CEV***M**-T
 RS1/16S***J-T
 UNLESS OTHERWISE NOTED

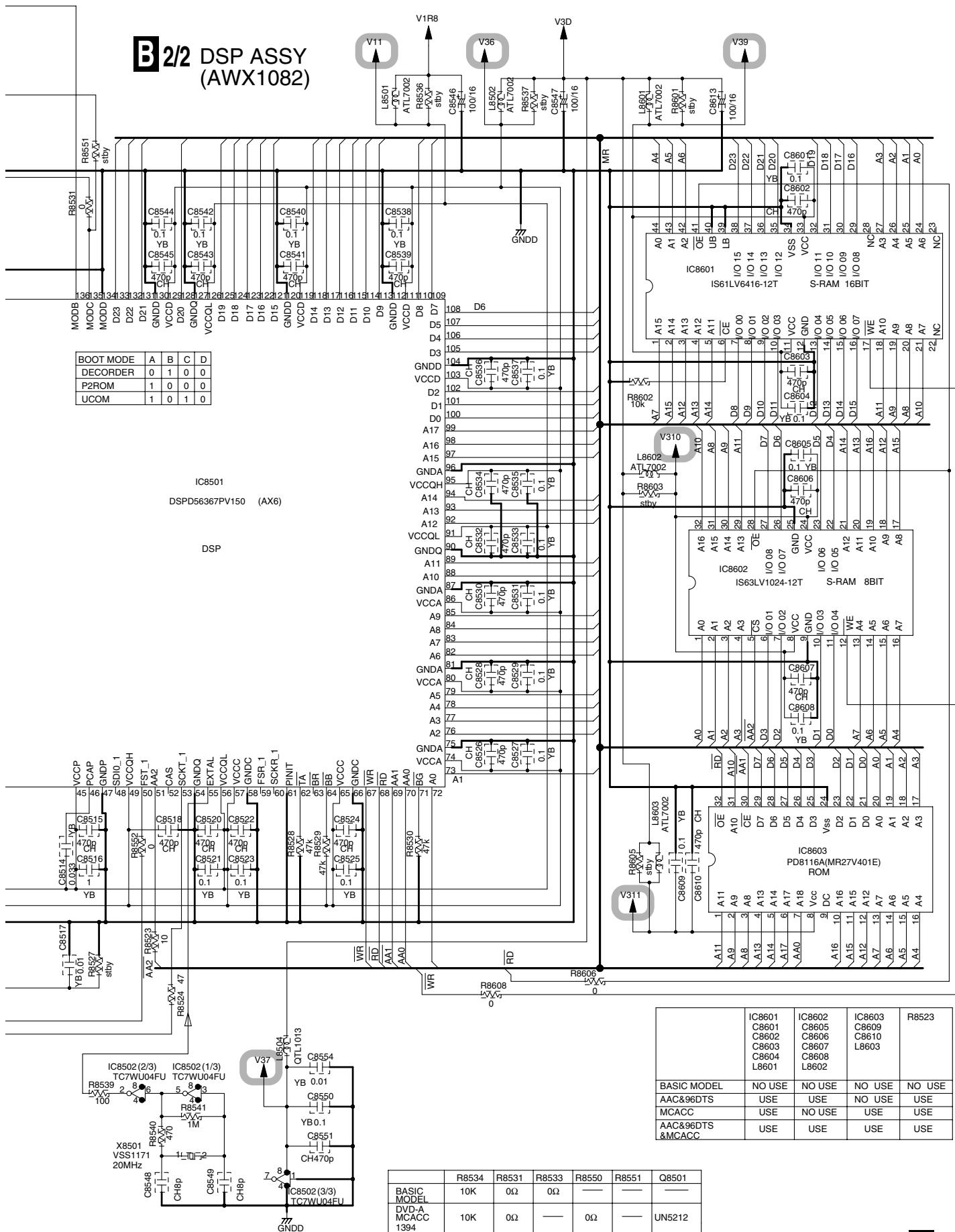
B 1/2 DSP ASSY
(AWX1082)

3.7 DSP ASSY (2/2)



B2/2

B 2/2 DSP ASSY
(AWX1082)



A

8

C

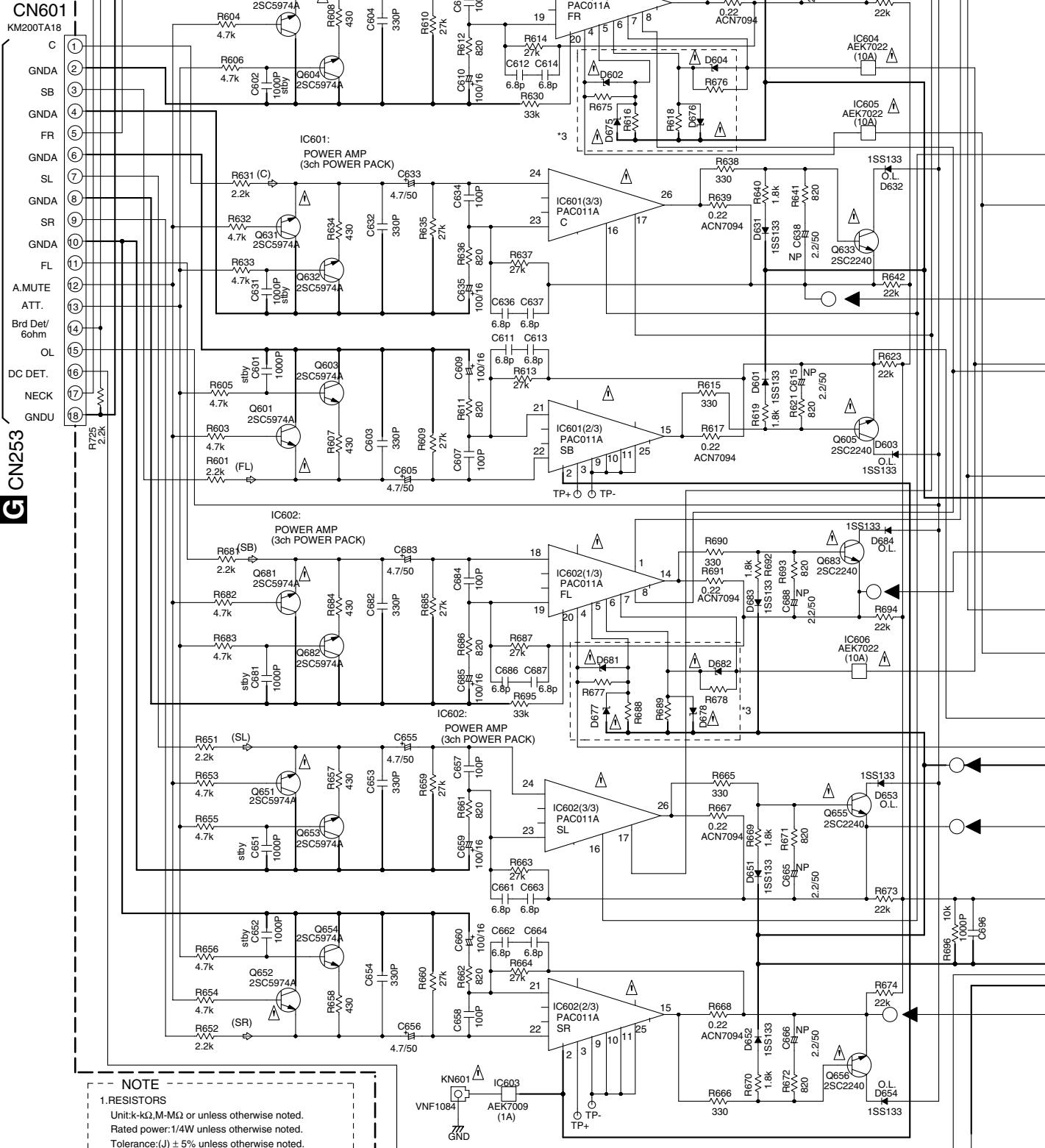
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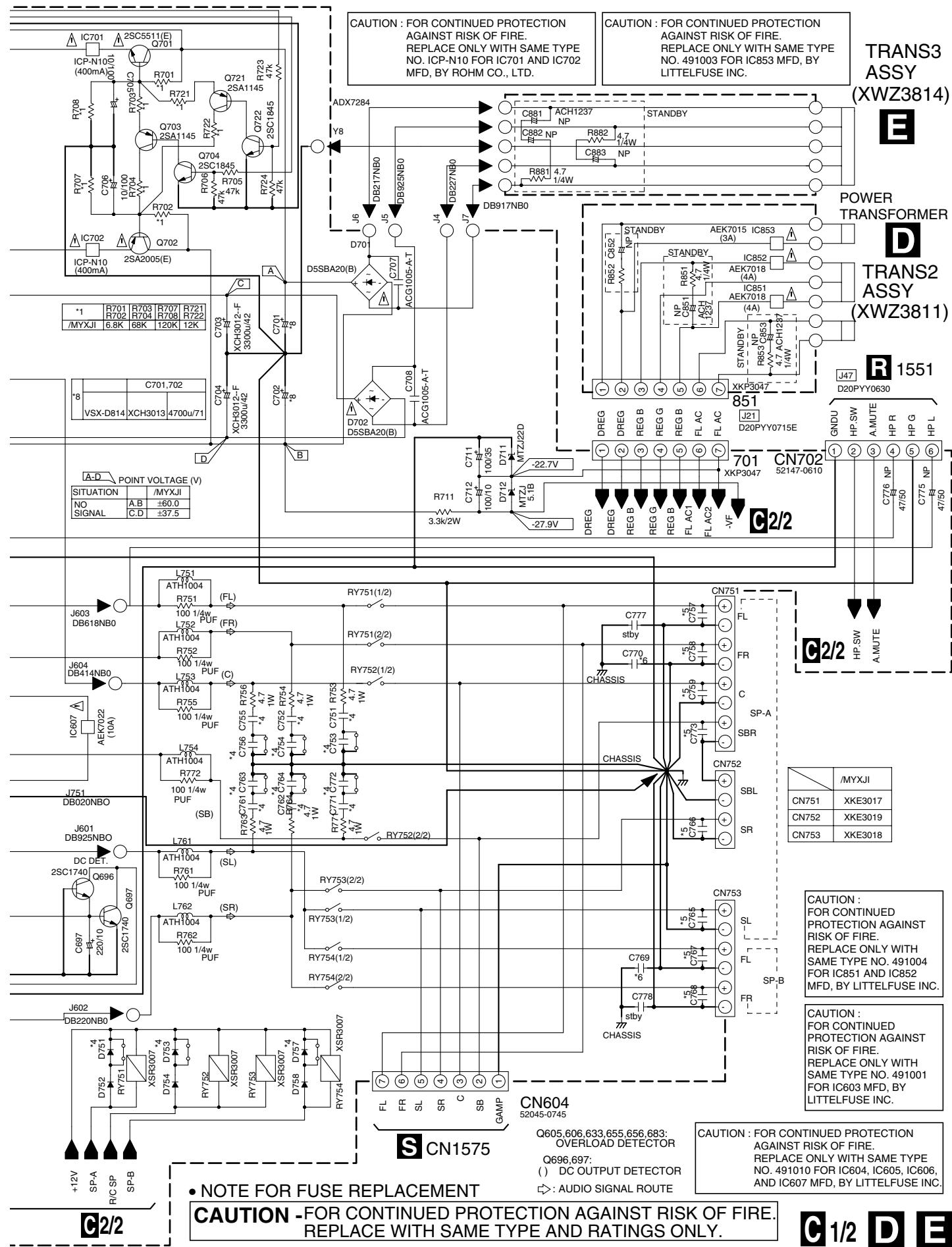
E

1

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

C 1/2 AMP&PRIMARY ASSY (XWZ3793)





3.9 AMP & PRIMARY (2/2), REG., AMP INPUT and TRANS1 ASSYS

1

2

3

4

A

B

C

D

E

F

G

1

2

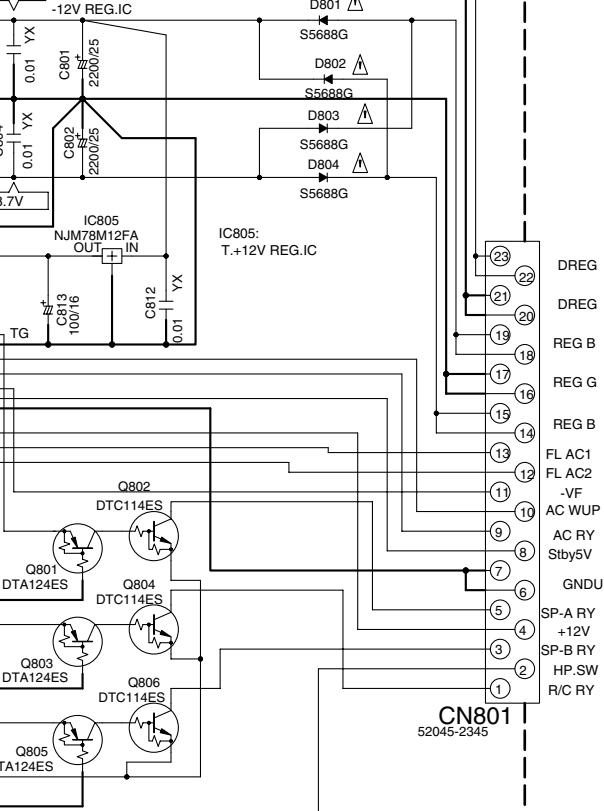
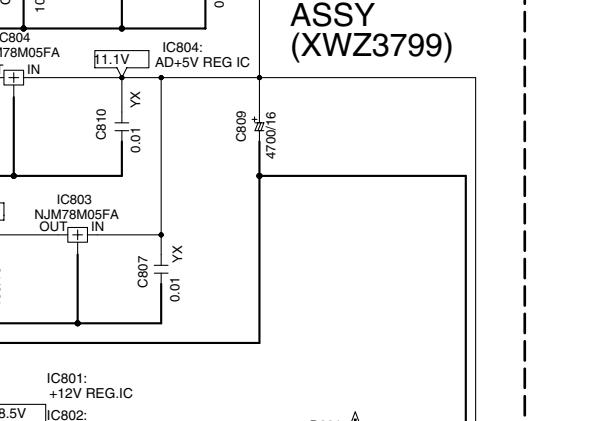
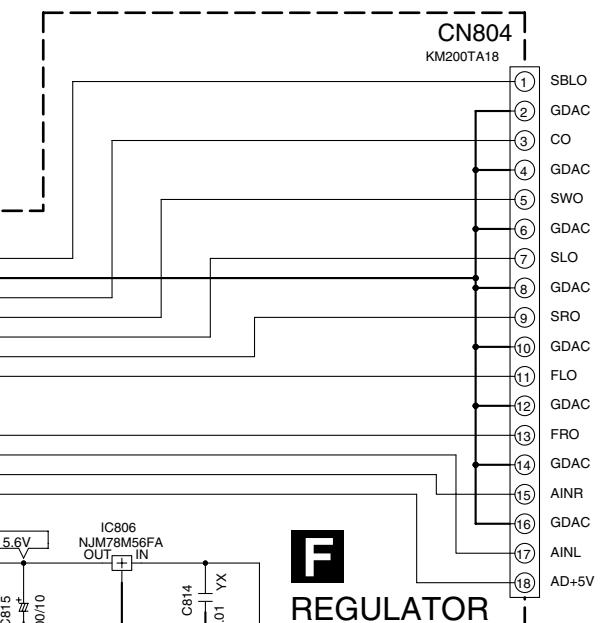
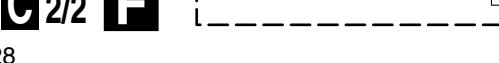
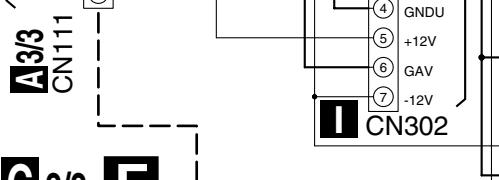
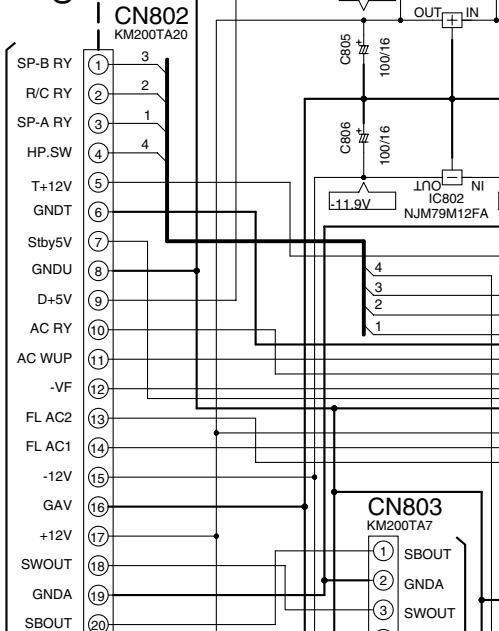
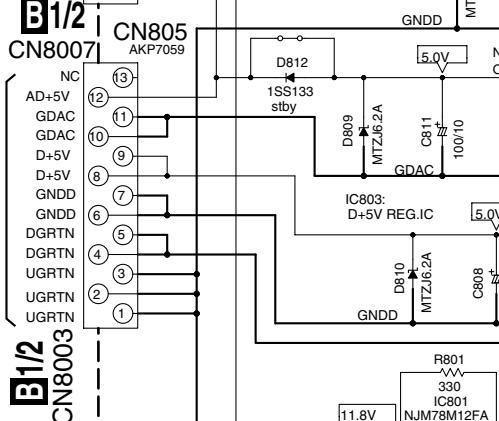
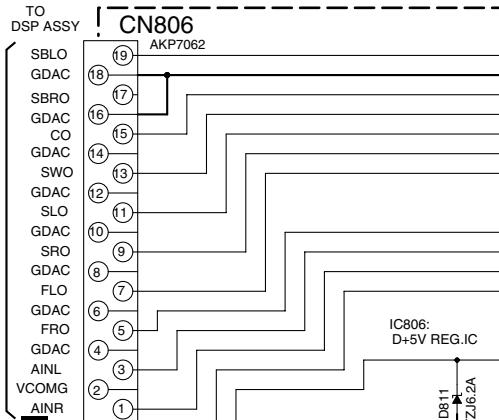
3

4

NOTE

1. RESISTORS
Unit:k Ω , M Ω or unless otherwise noted.
Rated power:1/4W 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 except for
electrolytic capacitors.



A1/3 CN109

C1/2

VSX-D814-K

FAN MOTOR CN252 S3B-EH

G AMP INPUT ASSY (XWZ3804)

A2/3 CN106

CN254 52044-1945

FROM INPUT ASSY

C1/2 CN601

CN253 KP200TA18L

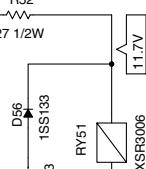
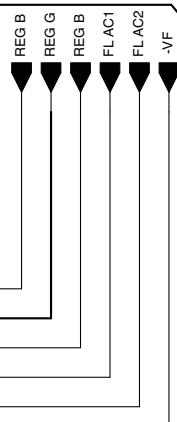
CAUTION : FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE
NO. 491.500 FOR IC52 MFD, BY
LITTELFUSE INC.

Q CN891

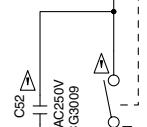
-12V GNDU +12V

CN251 52044-0345

C1/2



RY51:
POWER RELAY

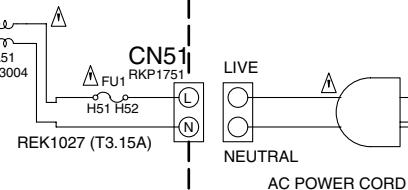


H

TRANS1 ASSY (XWZ3807)

POWER TRANSFORMER

J1:DB117NB0
J2:DB618NB0



C2/2

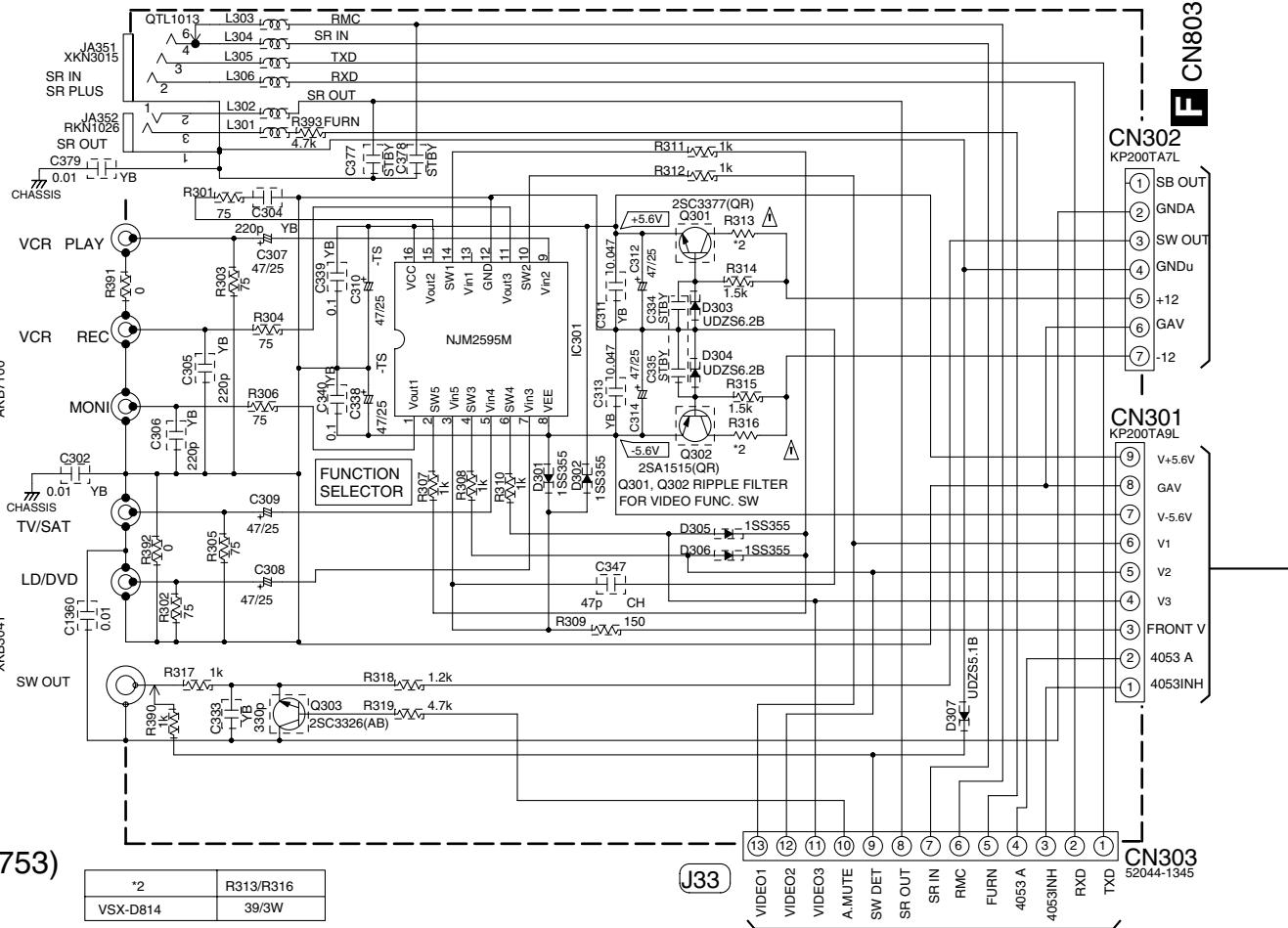
AMP&PRIMARY ASSY (XWZ3793)

• NOTE FOR FUSE REPLACEMENT

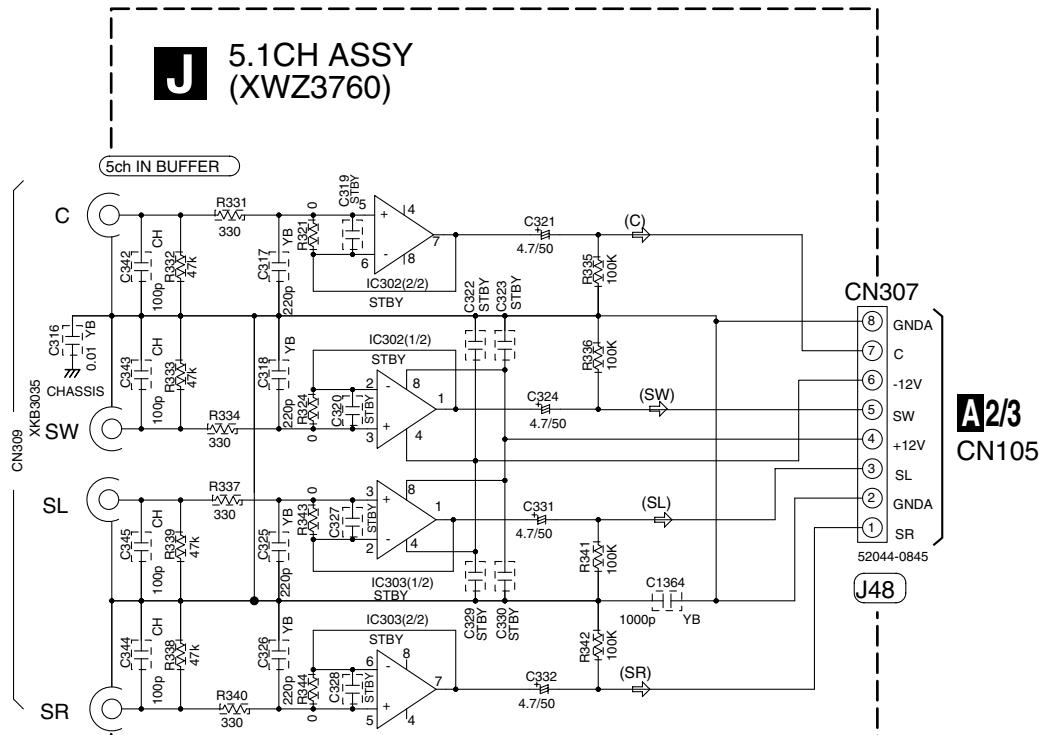
CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

SP-B-RY SP-A-RY +12V GNDU

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

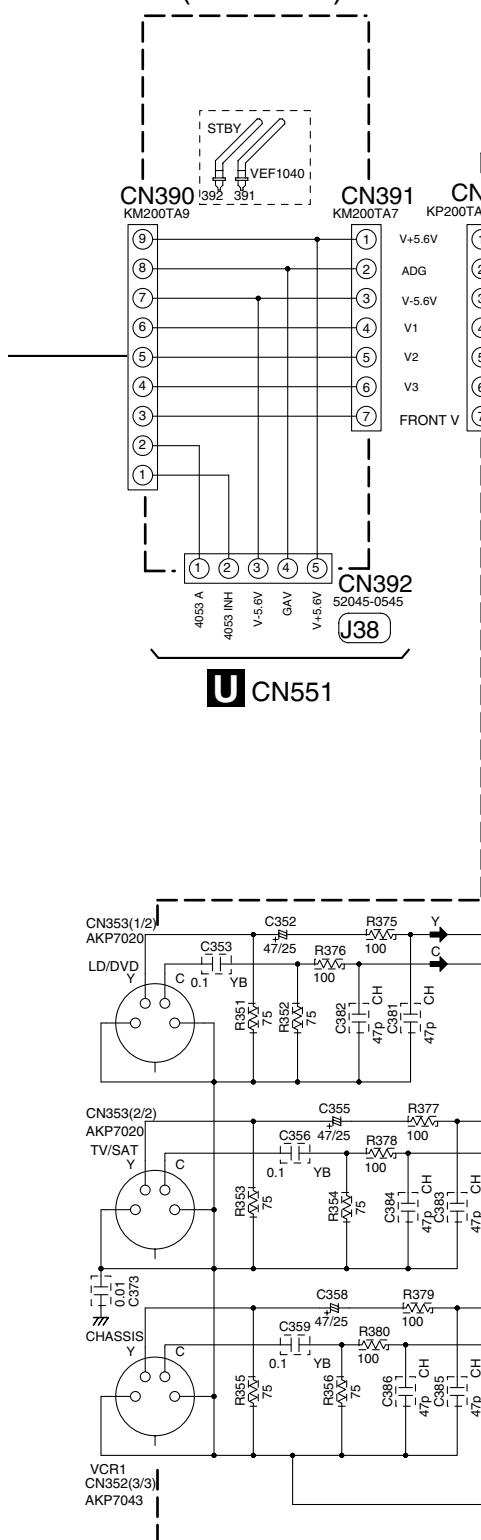


A3/3 CN104



K

B TO B ASSY (XWZ3781)



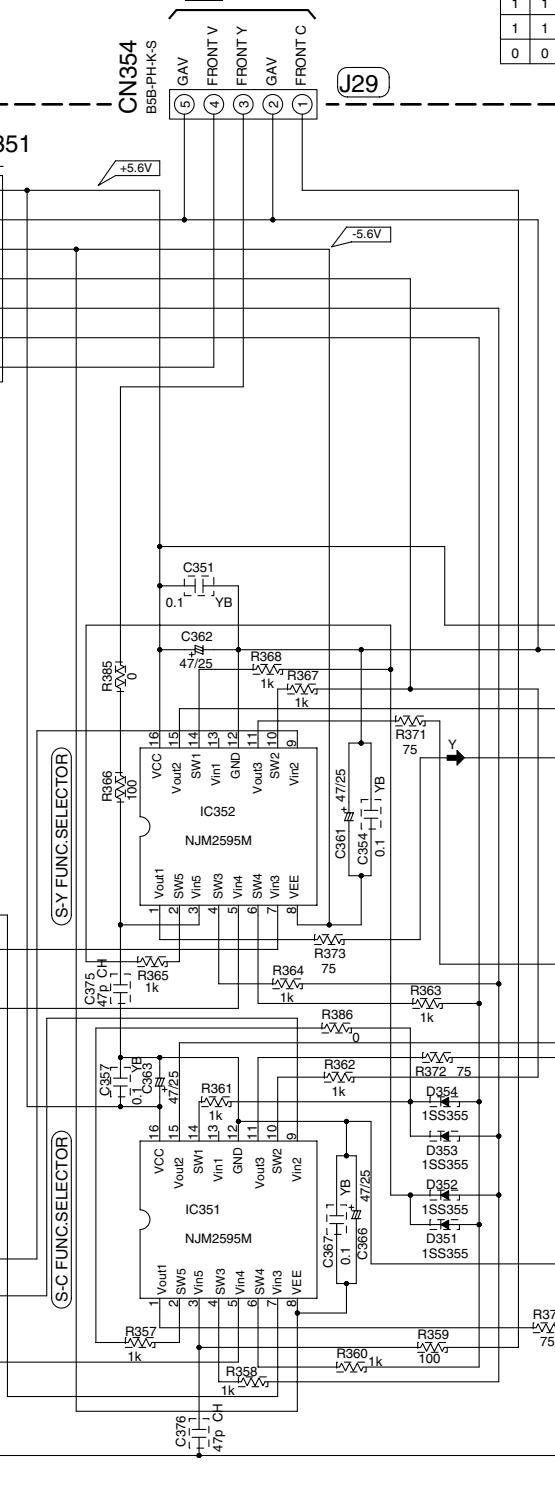
NOTE

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

2. CAPACITORS
Unit: pF or μ F unless otherwise noted.
Ratings: Capacity(μ F)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

V

CN901



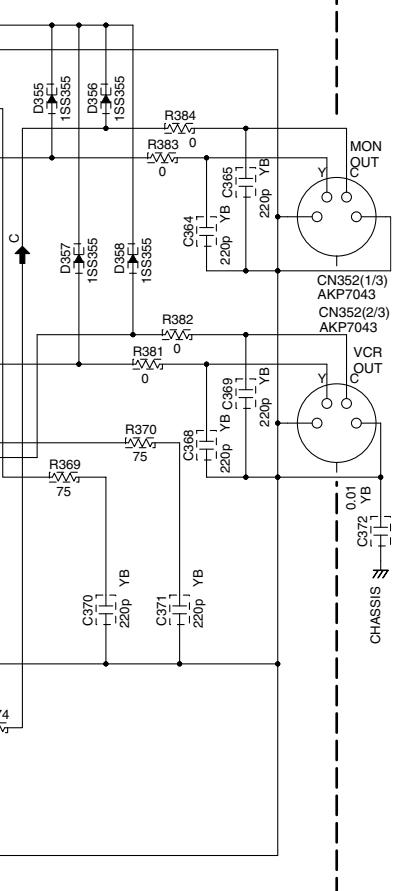
NJM2595M control port status

SW1	SW2	SW3	SW4	SW5	Vout1	Vout2	Vout3
1	0	(1)	0	1	Vin2	Vin2	mute
1	1	(1)	0	1	Vin3	Vin3	Vin3
1	1	0	1	1	Vin4	Vin4	Vin4
1	1	1	1	1	Vin5	Vin5	Vin5
0	0	(0)	(0)	0	mute	mute	mute

VIN 2.VCR
VIN 3.DVD/LD
VIN 4.TV/SAT
VIN 5.FRONT
Vout1. MON out
Vout2. MR out
Vout3. VCR out

L

S. VIDEO ASSY (XWZ3776)



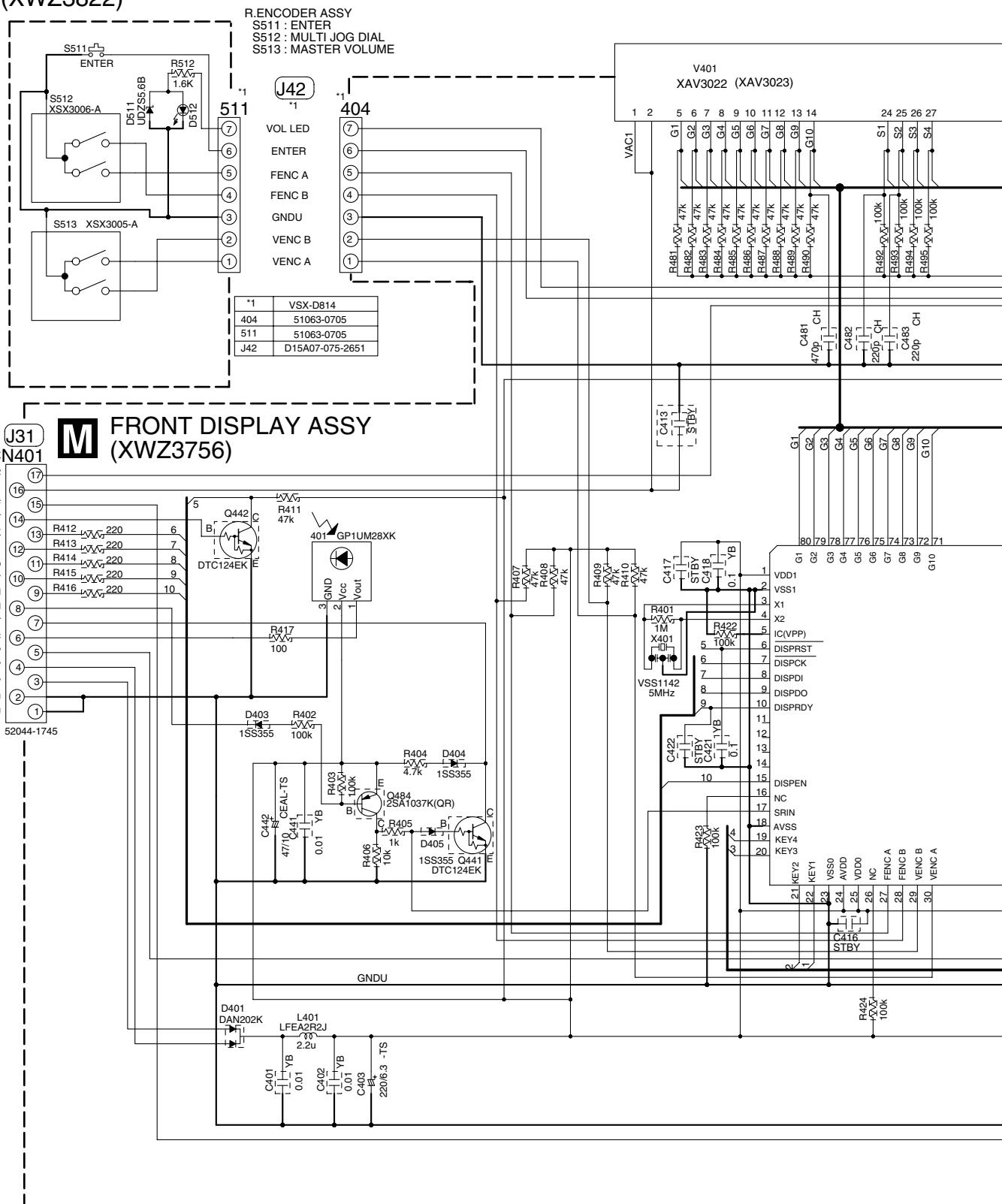
→ VIDEO SIGNAL FLOW
↓ AUDIO SIGNAL FLOW

K L

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

A

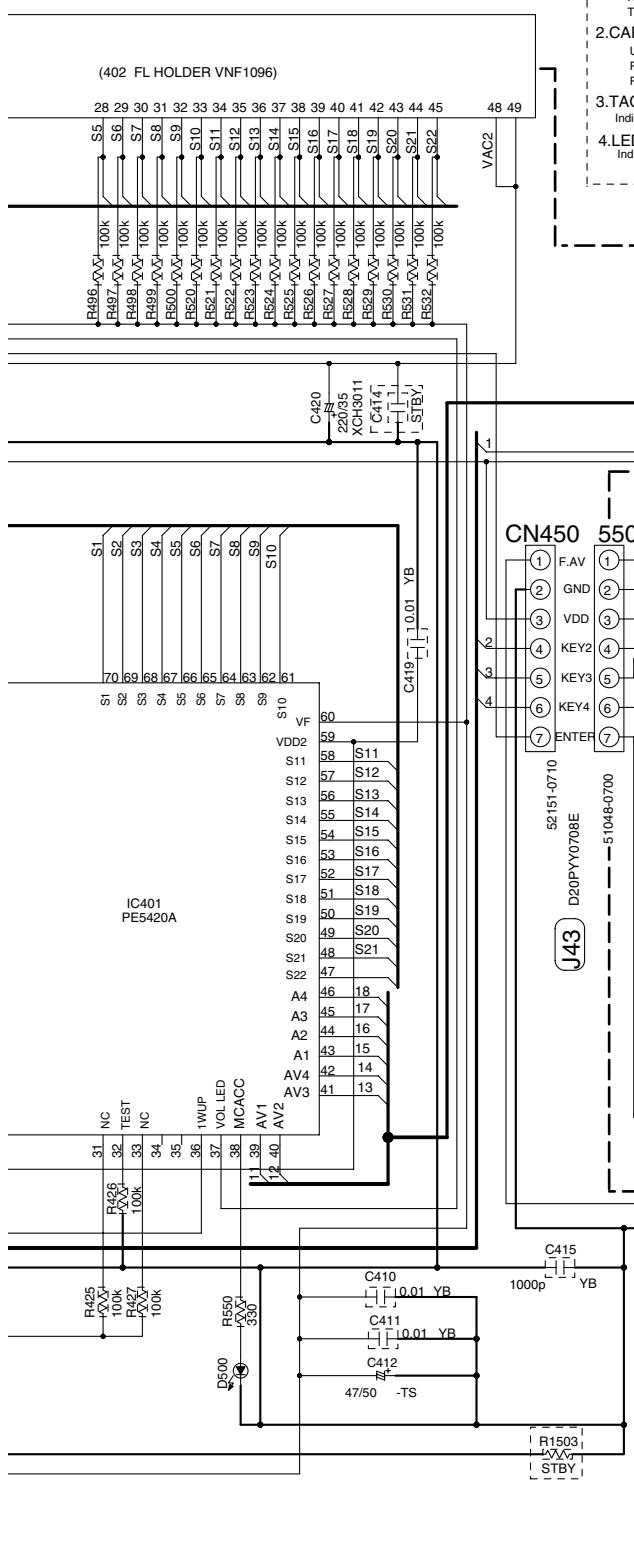
N R.ENCODER ASSY
(XWZ3822)



32

M N

VSX-D814-K

**- NOTE -****1. RESISTORS**

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

2. CAPACITORS

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

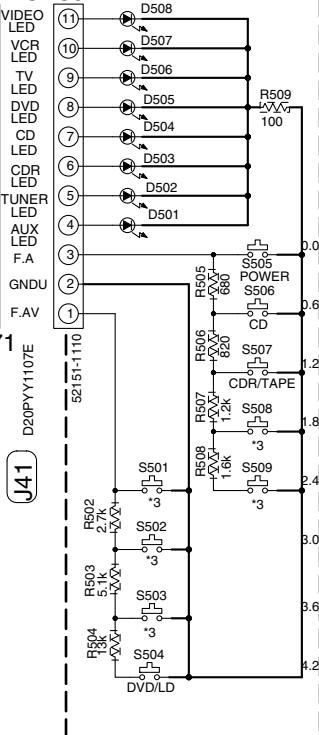
3. TACT SWITCHES

Indicated in VSG1024

4. LED

Indicated in SLI-343DCW(STU)-TS

POWER SW ASSY
S501 : VIDEO
S502 : DVR/VCR
S503 : TV/SAT
S504 : DVD/LD
S505 : POWER
STANDBY/ON
S506 : CD
S507 : CDR/TAPE
S508 : TUNER
S509 : AUX

O**P. SW & FUNC. KEY ASSY**
(XWZ3764)**CN501**

*3	VSX-D814
S501	VIDEO
S502	DVR/VCR
S503	TV/SAT
S508	TUNER
S509	AUX

P**FRONT KEY ASSY**
(XWZ3758)

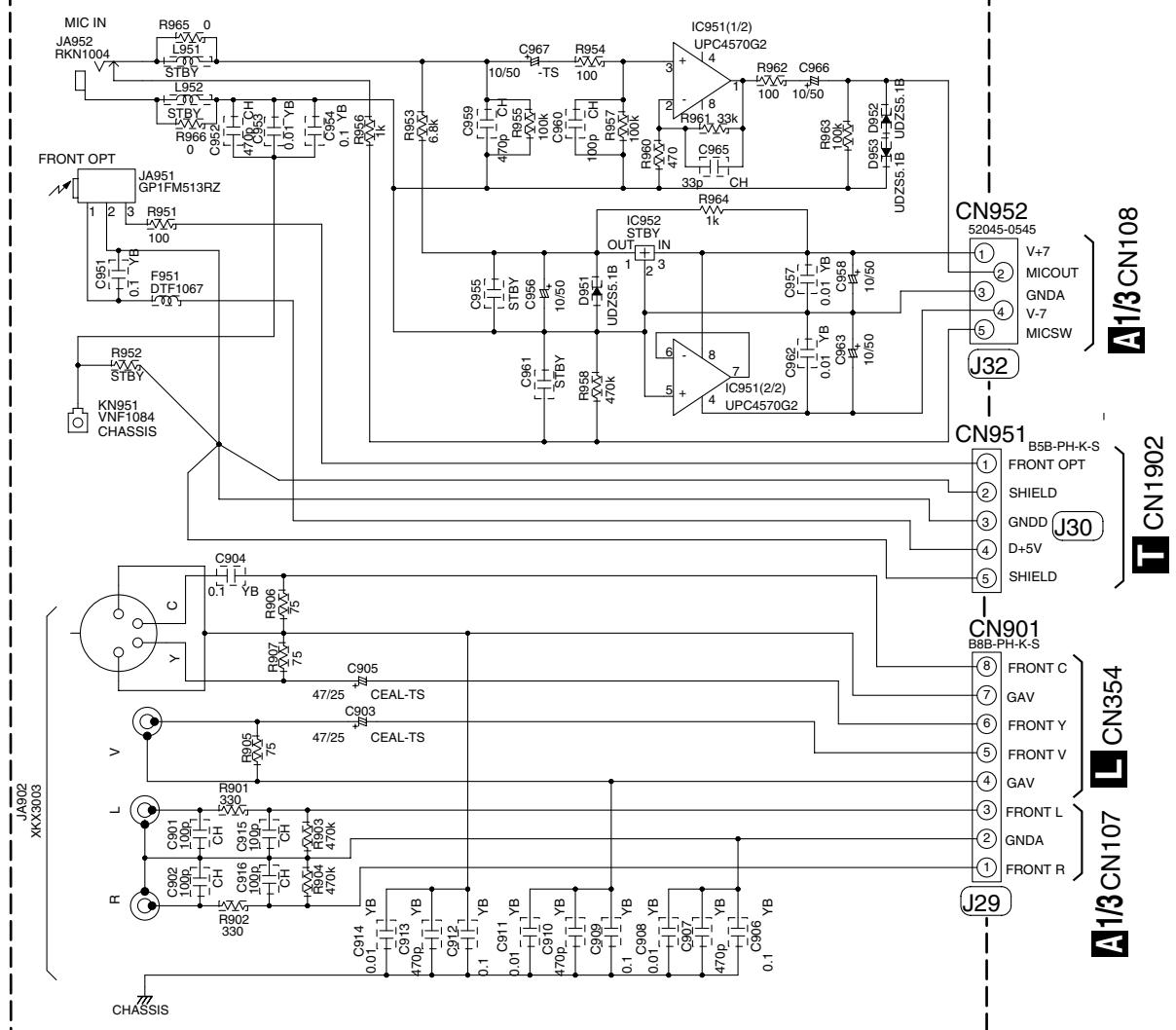
*2	VSX-D814
S453	MIDNIGHT/LOUDNESS
S454	SPEAKER
S455	SBch MODE
S456	EON MODE
S457	PTY SEARCH
S458	CLASS
S459	STANDARD
S460	TUNING +
S461	TUNING -
S462	STATION +
S463	STATION -
S464	TUNER EDIT
S465	CLASS
S466	EON MODE
S467	PTY SEARCH
S468	MPX
S469	BAND

FRONT KEY ASSY
S451 : STEREO/DIRECT
S452 : SIGNAL SELECT
S453 : MIDNIGHT/LOUDNESS
S454 : SPEAKER
S455 : SBch MODE
S456 : TONE
S457 : QUICK SETUP
S458 : ADVANCED SURROUND
S459 : STANDARD
S460 : TUNING +
S461 : TUNING -
S462 : STATION +
S463 : STATION -
S464 : TUNER EDIT
S465 : CLASS
S466 : EON MODE
S467 : PTY SEARCH
S468 : MPX
S469 : BAND

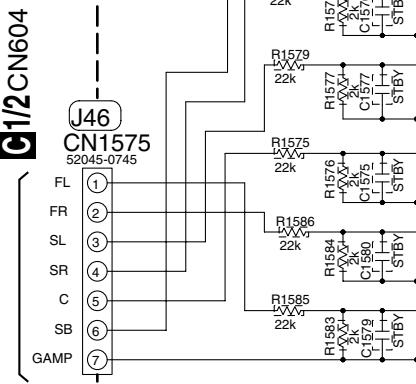
M O P

3.12 TRANS4, H.P., PRE-OUT, D.IN, COMP. and F. VIDEO&OPT&MIC ASSYS

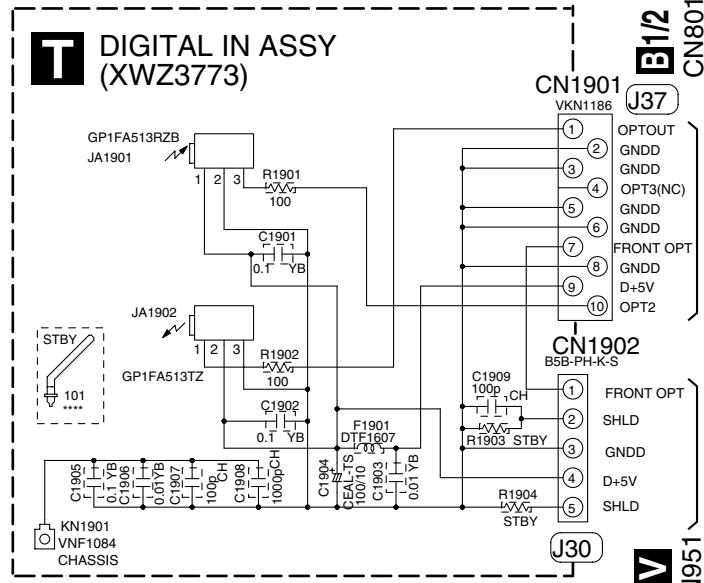
V FRONT VIDEO & OPT & MIC ASSY (XWZ3771)



S PRE-OUT ASSY (XWZ3779)



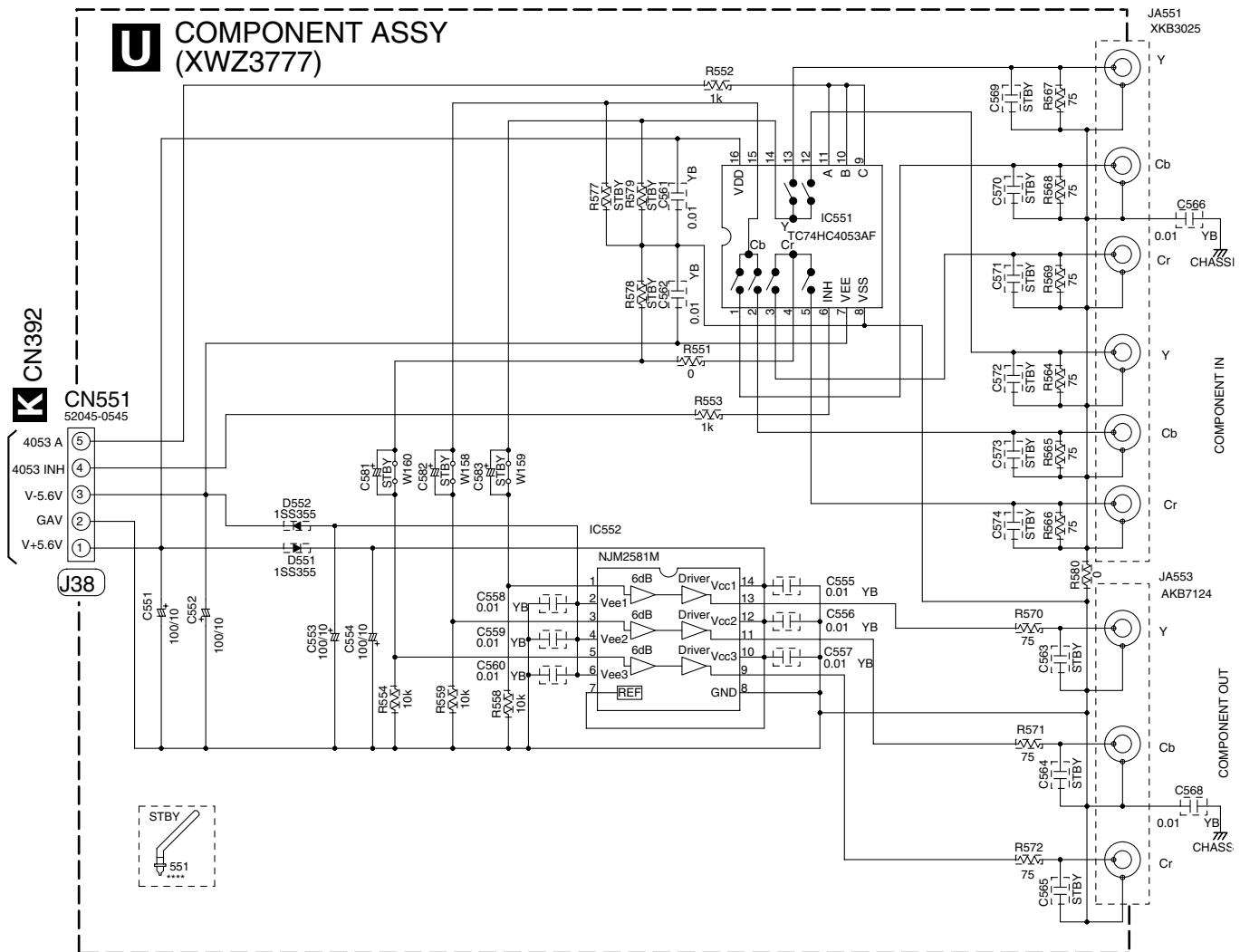
T DIGITAL IN ASSY (XWZ3773)



S T V

A

U COMPONENT ASSY (XWZ3777)



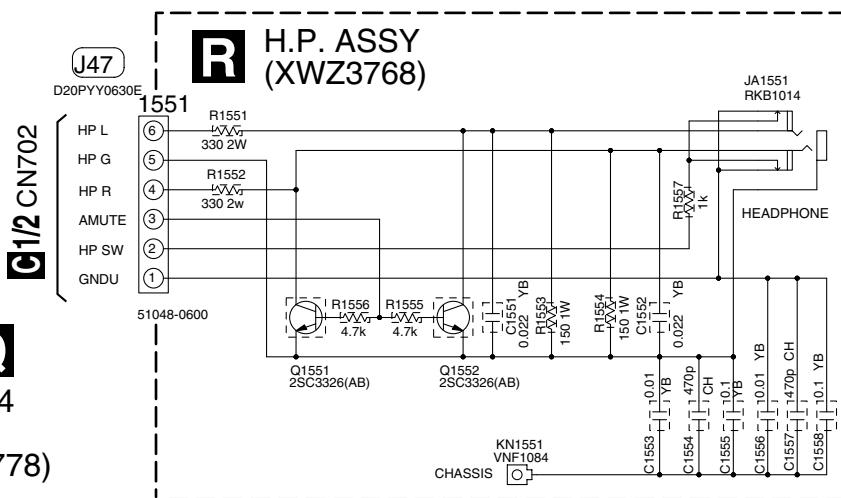
POWER TRANSFORMER (XWZ3778)

**CAUTION : FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE
NO. 491-630 FOR IC891 AND IC892
MFD. BY LITTELFUSE INC.**

1

**TRANS4
ASSY
(XWZ3778)**

H.P. ASSY
(XWZ3768)



- NOTE

1. RESISTORS

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

CAPACITORS

2. CAPACITORS

Ratings: Capacity(μ F)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

Q R U

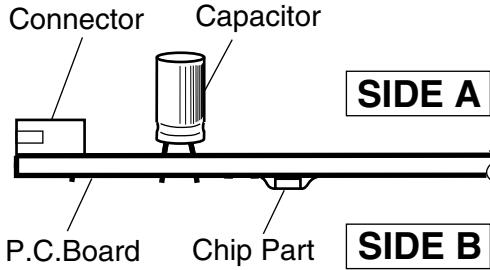
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

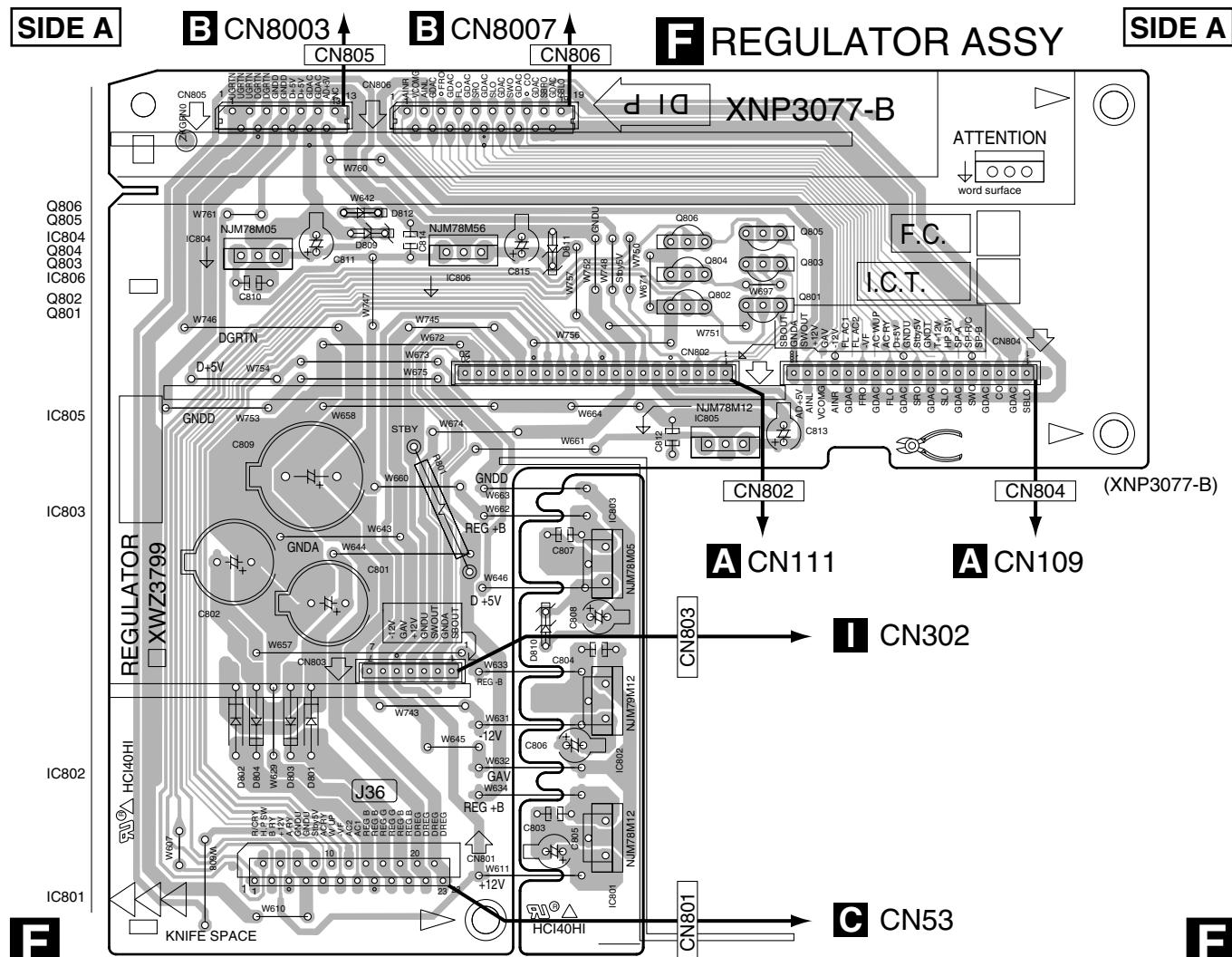
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
- For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



4.1 REGULATOR ASSY



■ 5 ■ 6 ■ 7 ■ 8

4.2 TRANS2, TRANS3, TRANS1 and TRANS4 ASSYS

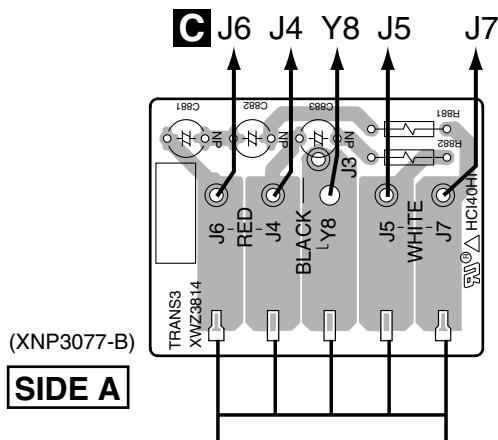
SIDE A

SIDE B

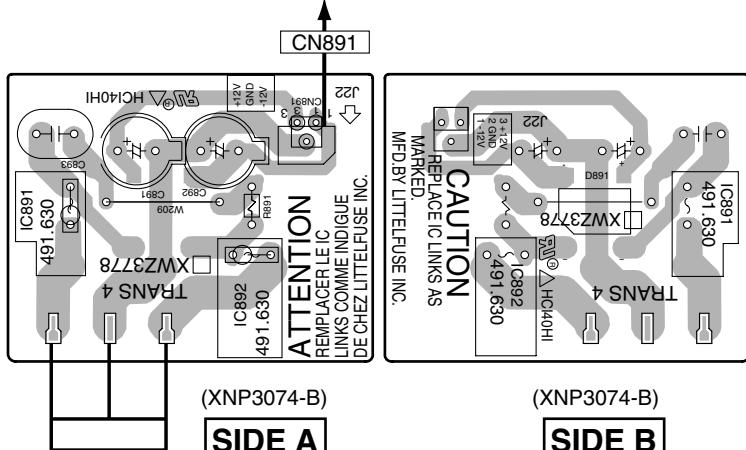
A

Q TRANS4 ASSY

E TRANS3 ASSY

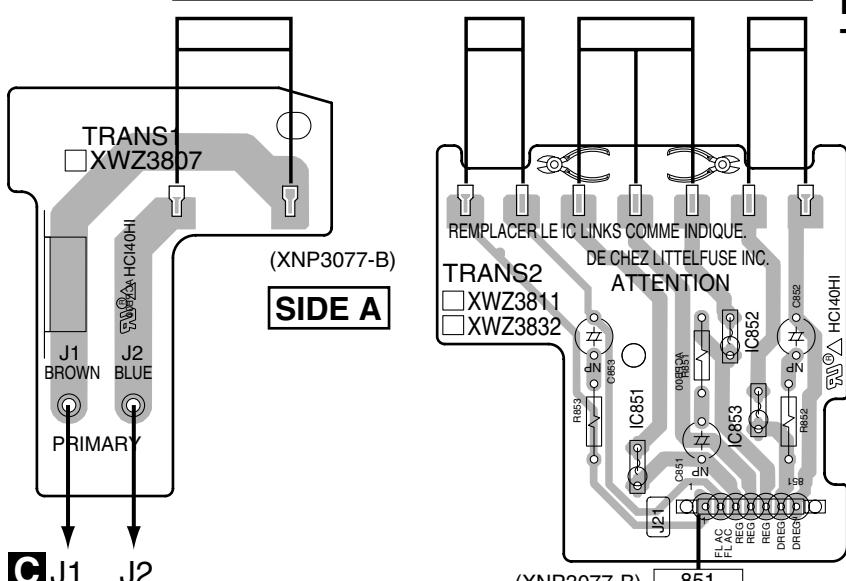


G CN251



**POWER
TRANSFORMER**

D TRANS2 ASSY



H TRANS1 ASSY

C 701

B

C

D

E

F

D E H Q

D E H Q

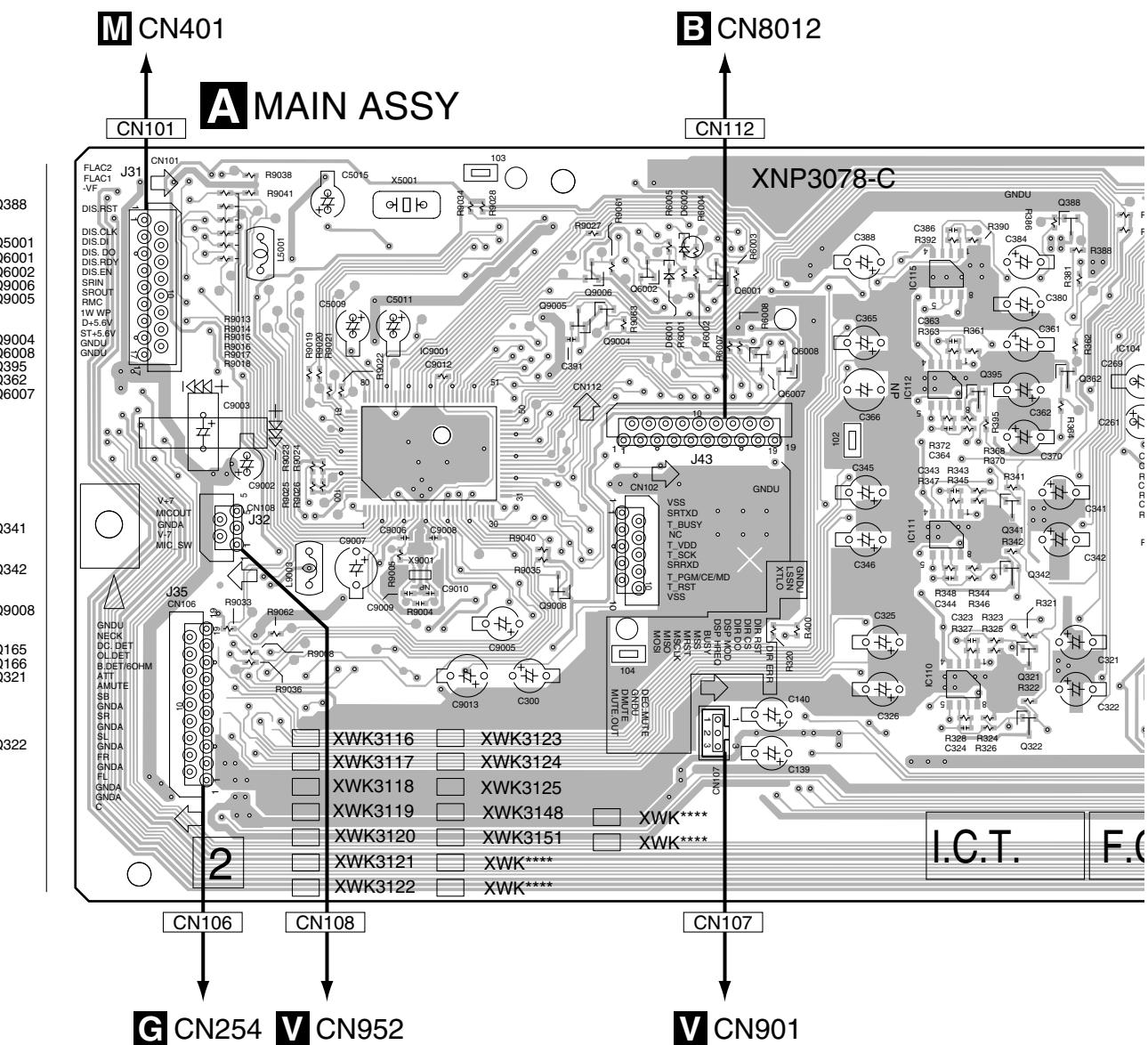
37

1 2 3 4
4.3 MAIN ASSY

SIDE A

A

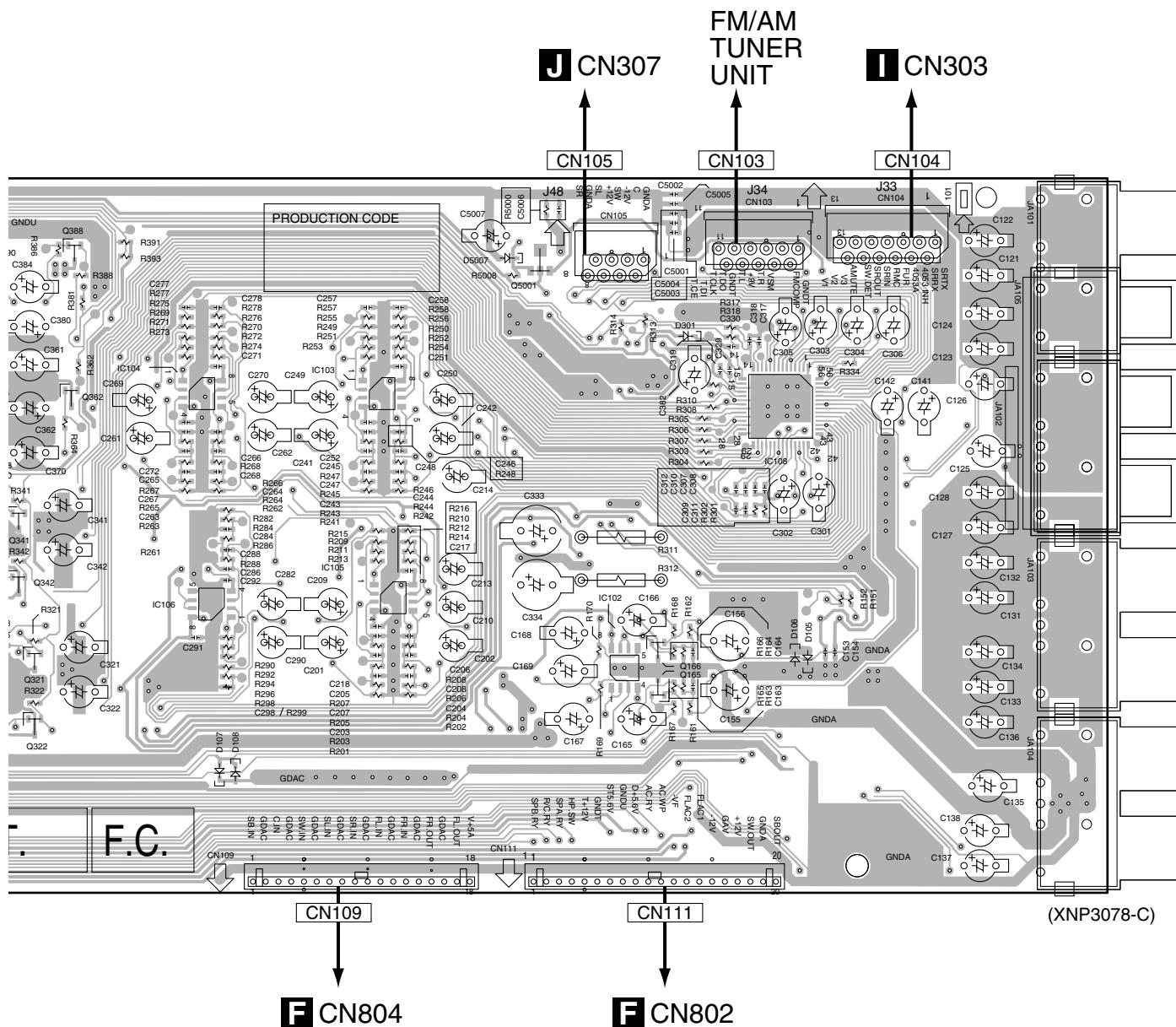
B



A

SIDE A

A



B

C

D

E

F

A

SIDE B

A

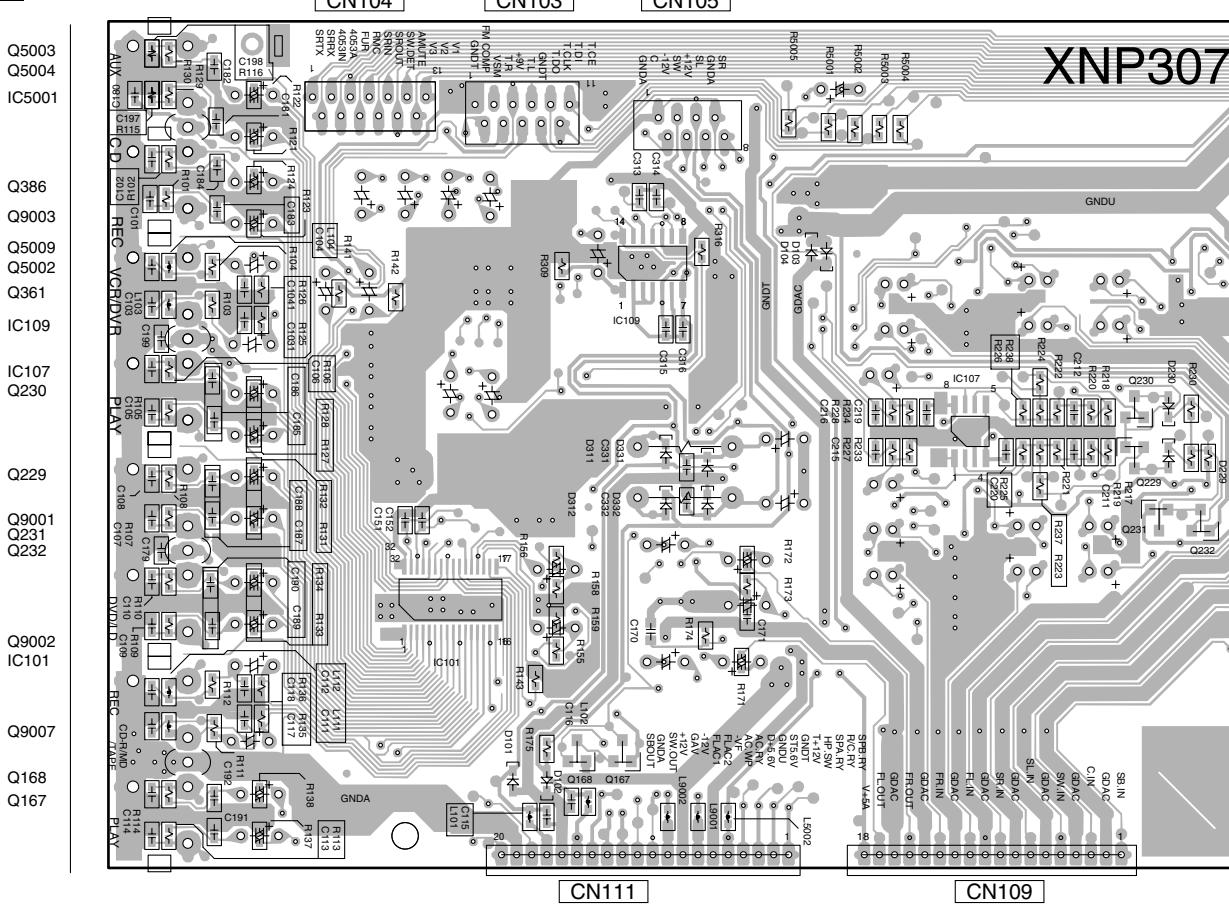
B

C

D

F

A MAIN ASSY

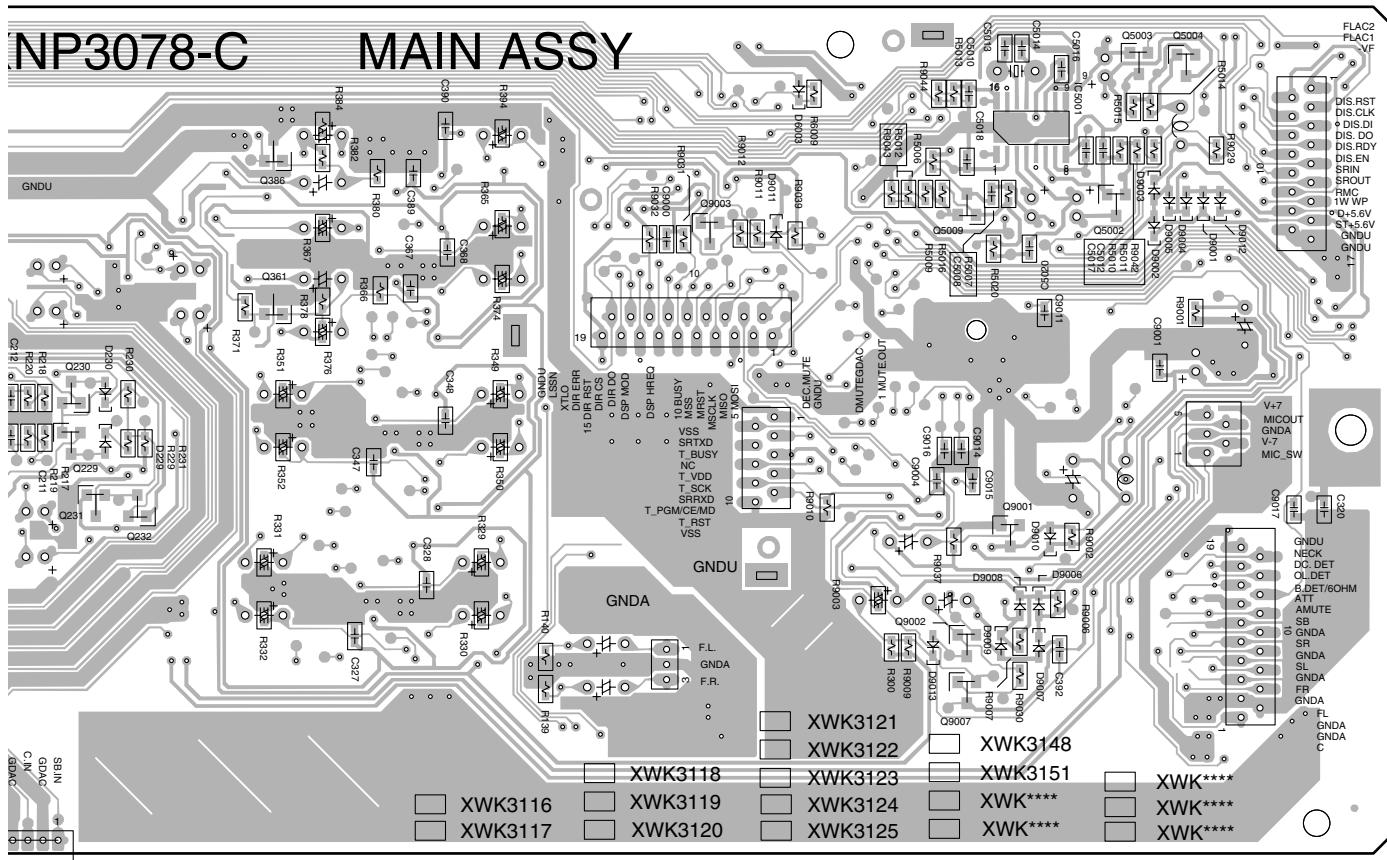


A

SIDE B

A

(NP3078-C MAIN ASSY



(XNP3078-C)

F

F

SIDE A

SIDE A

T CN1901

CN8017

E CN805

→ CN806

ACN112

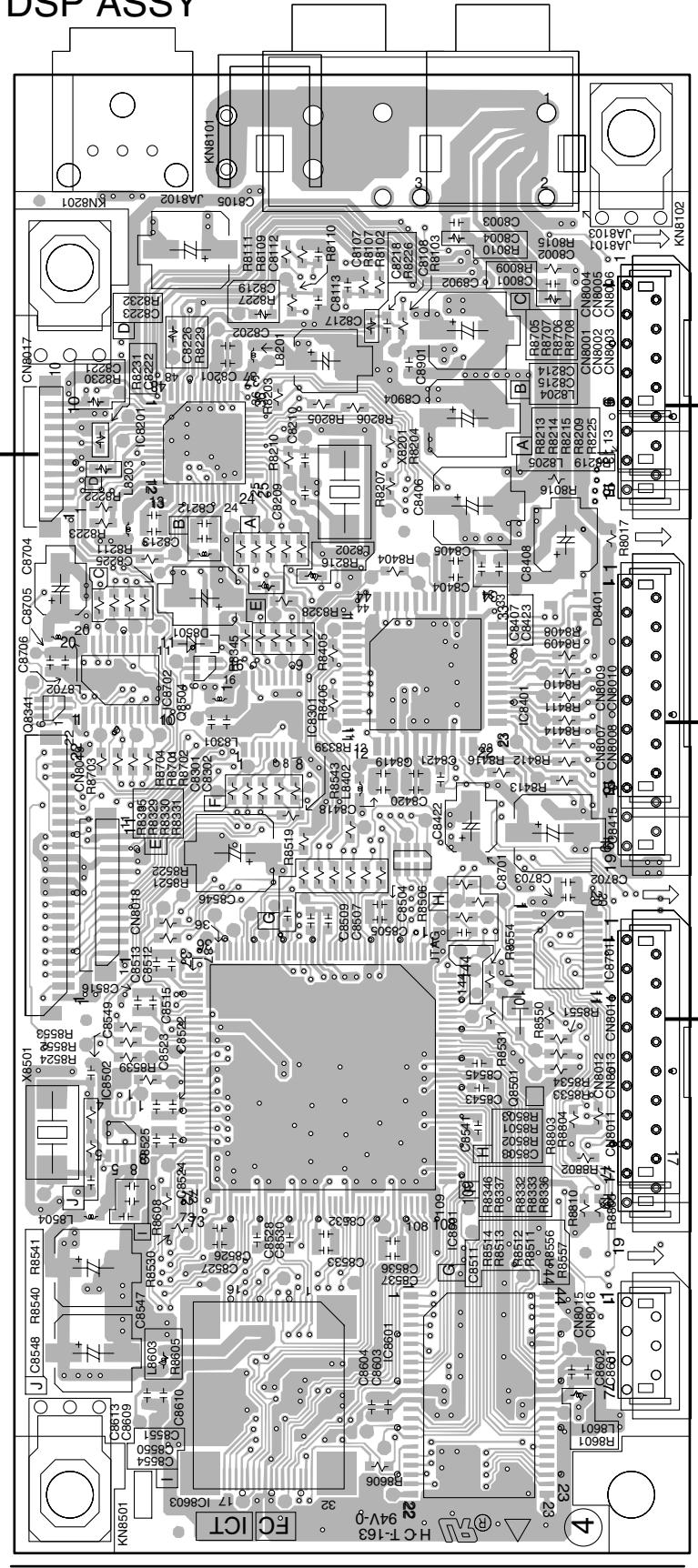
CN1901

CN8017

E CN805

→ CN806

ACN112



(ANP2022-B)

1

2

3

4

42

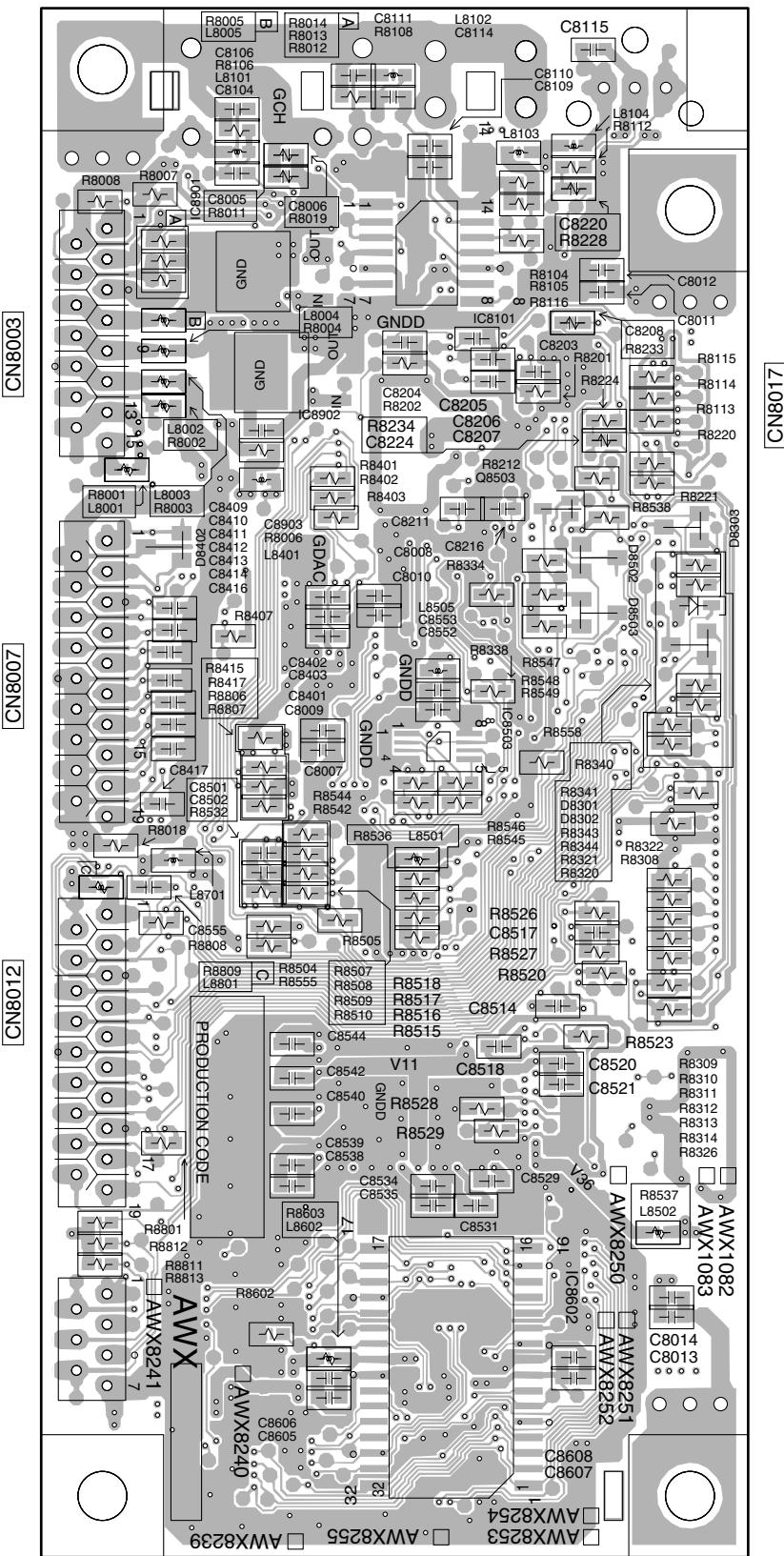
B

SIDE B

B DSP ASSY

SIDE B

A



(ANP2022-B)

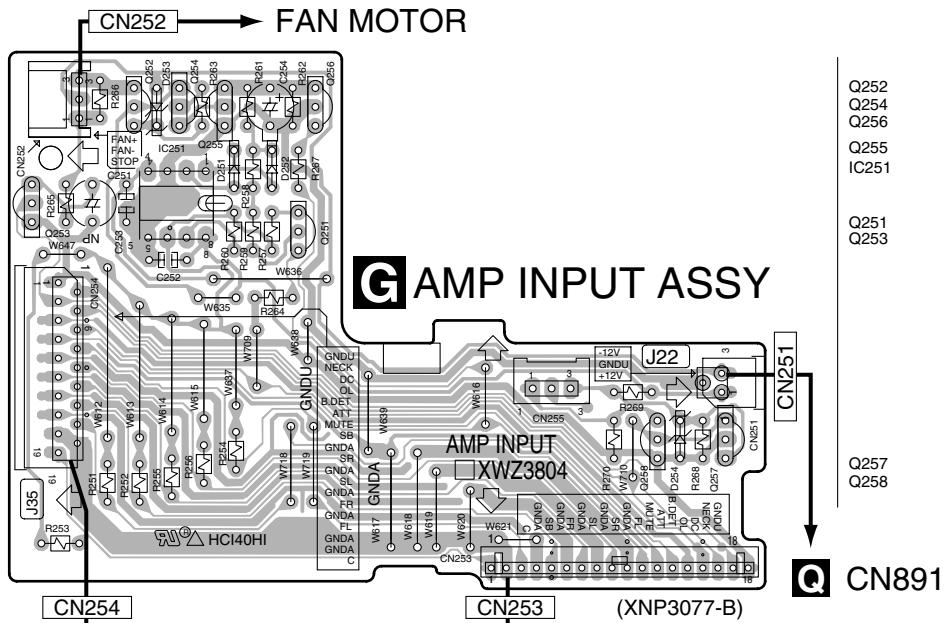
B

B

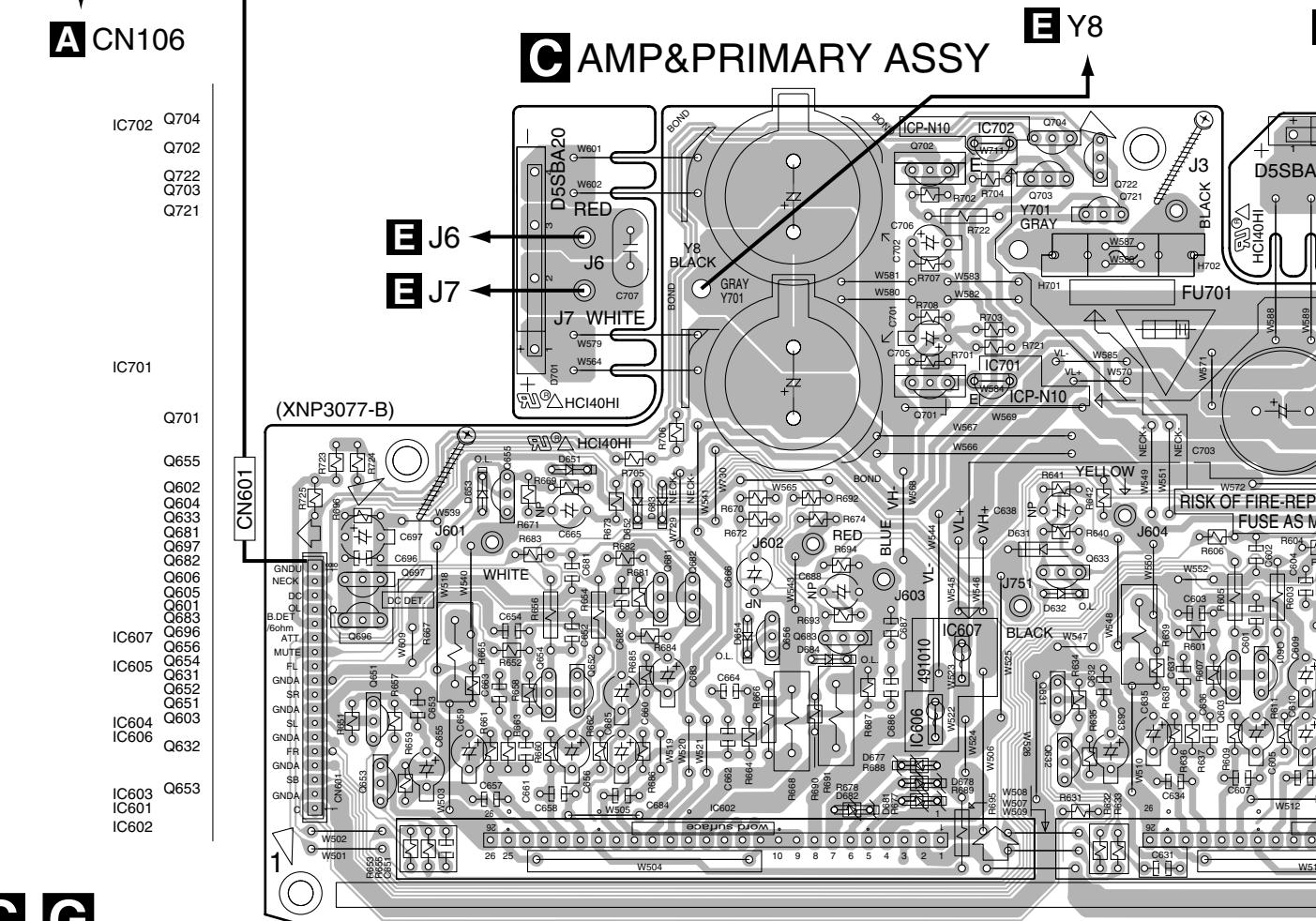
4.5 AMP & PRIMARY and AMP INPUT ASSYS

SIDE A

A



B

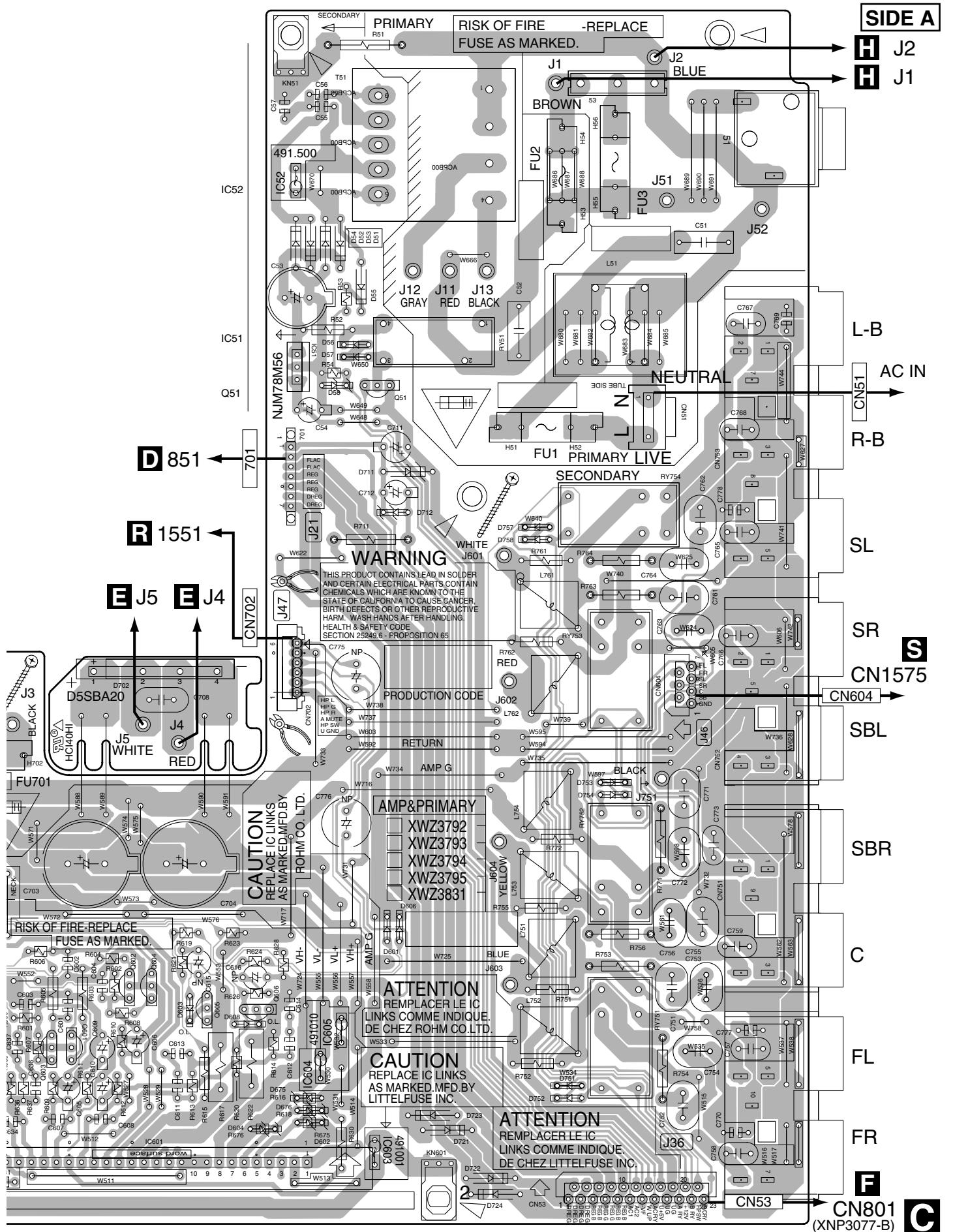


C

E

F

C G

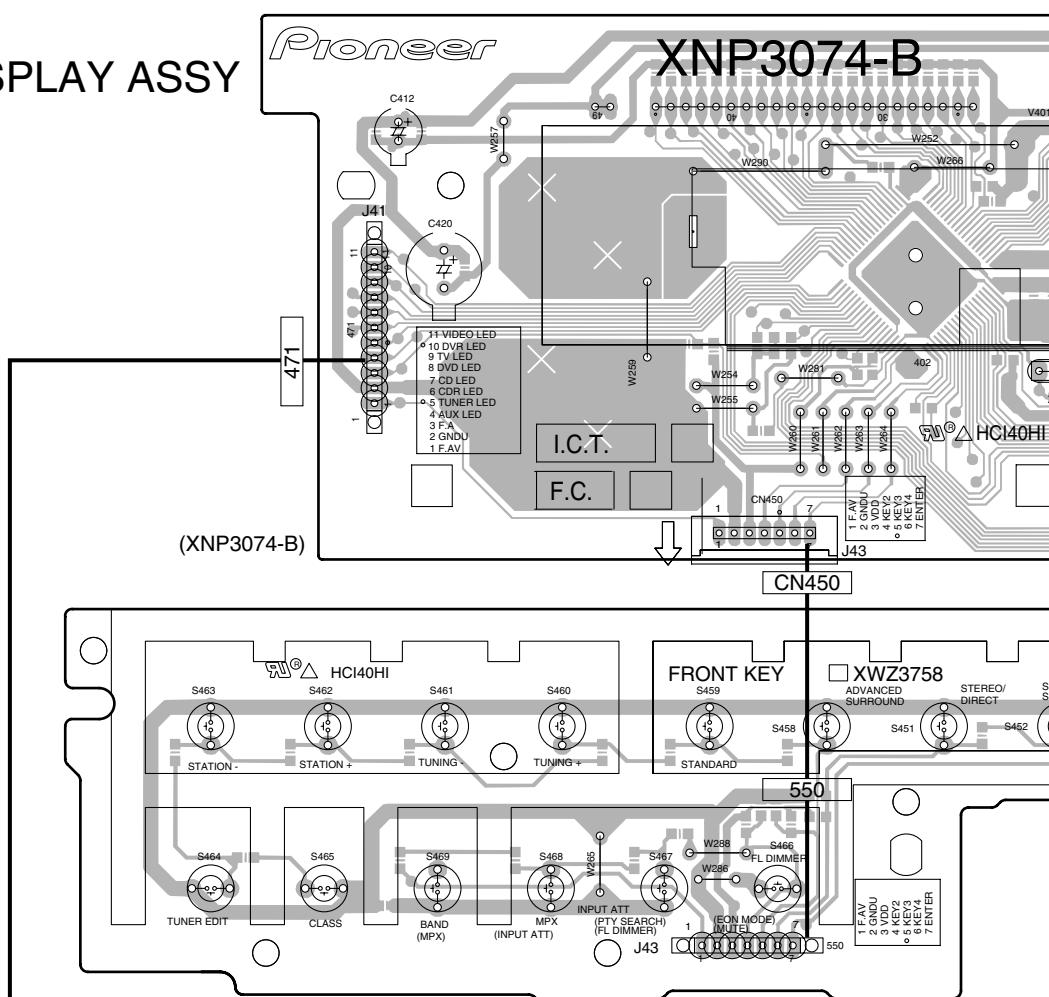


■ 1 ■ 2 ■ 3 ■ 4 ■

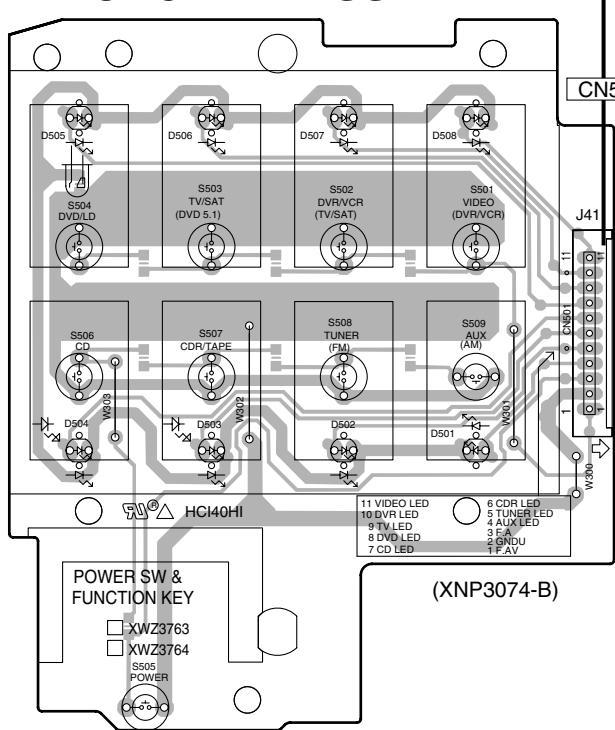
4.6 F. DISPLAY, R. ENCODER, P. SW&FUNC. KEY, H. P. and F. KEY ASSYS

SIDE A

M FRONT DISPLAY ASSY

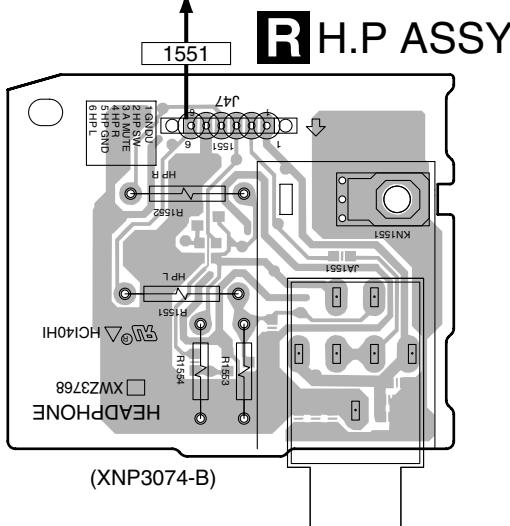


O P. SW & FUNC. KEY ASSY

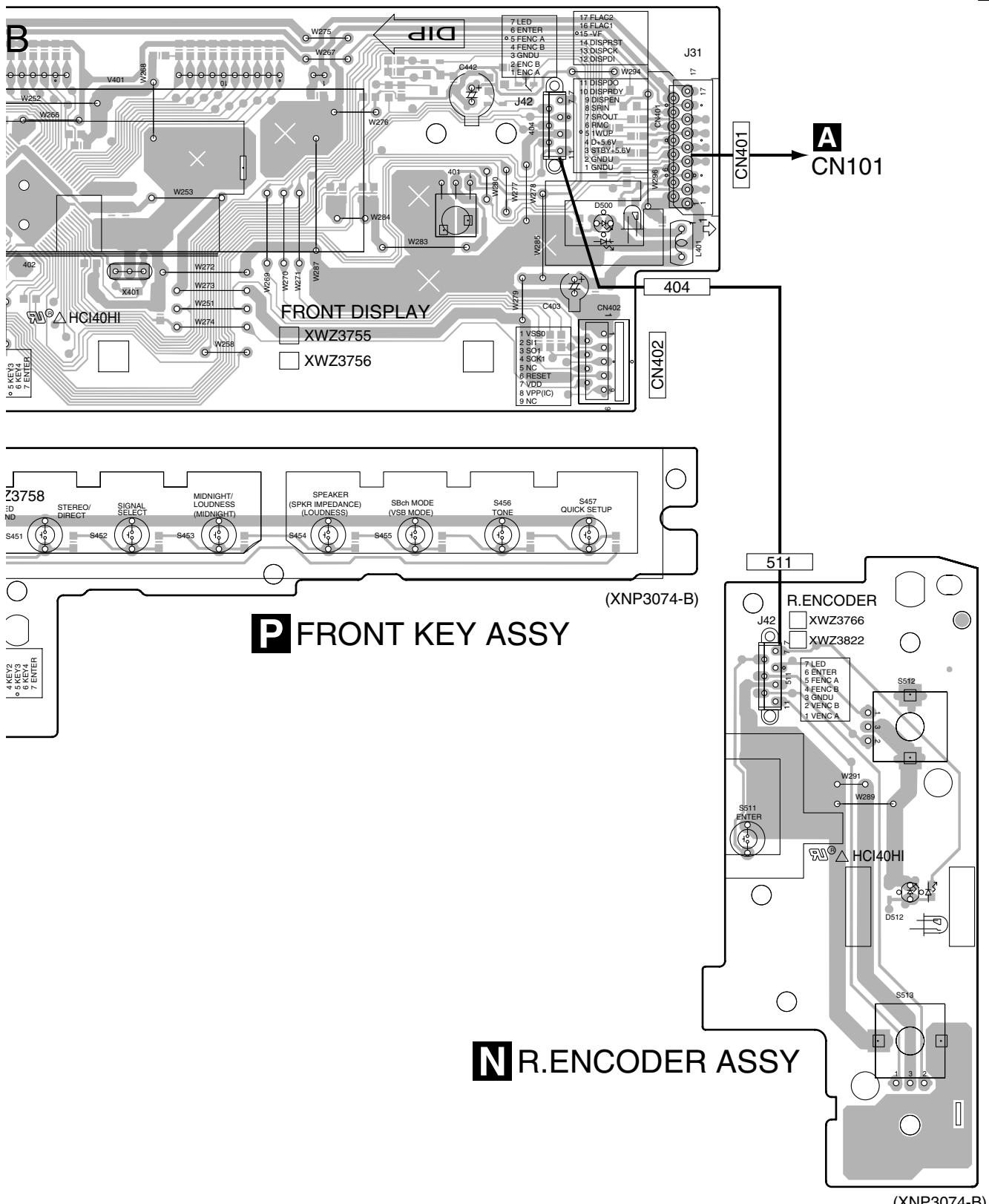


M O P R

C CN702



SIDE A

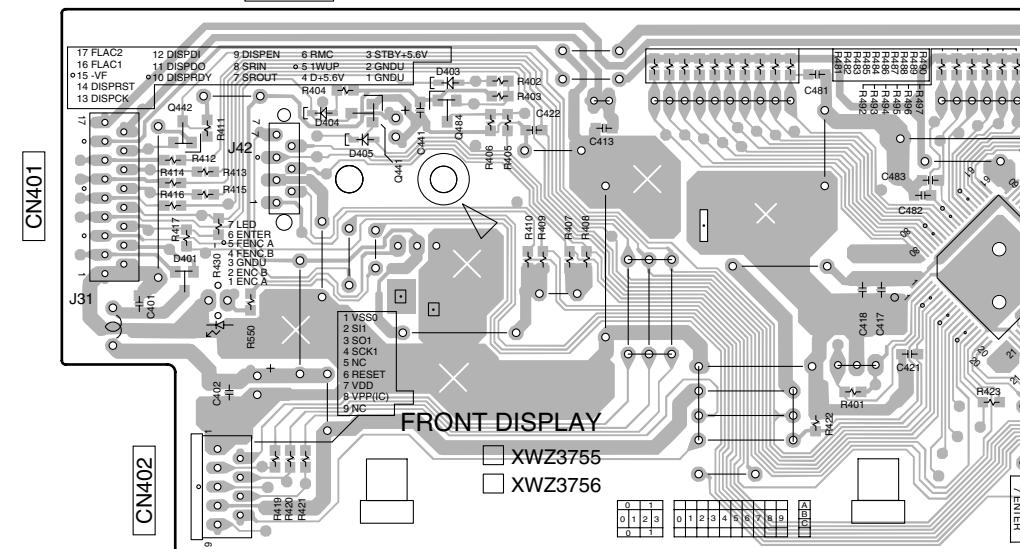


M N P

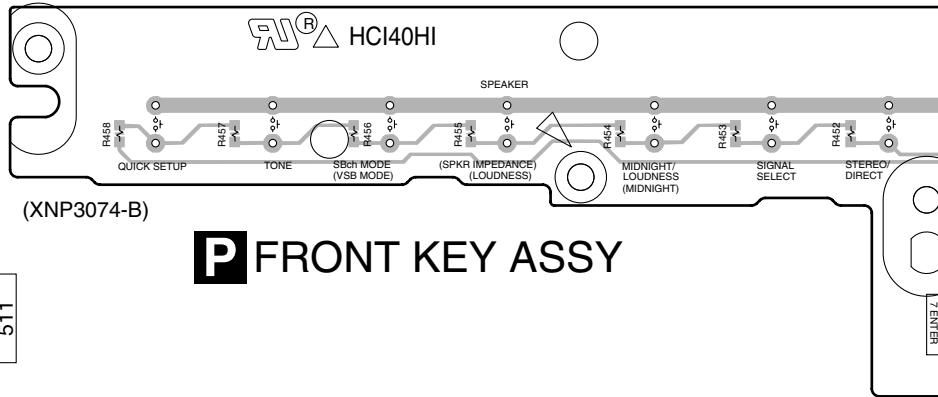
SIDE B

404

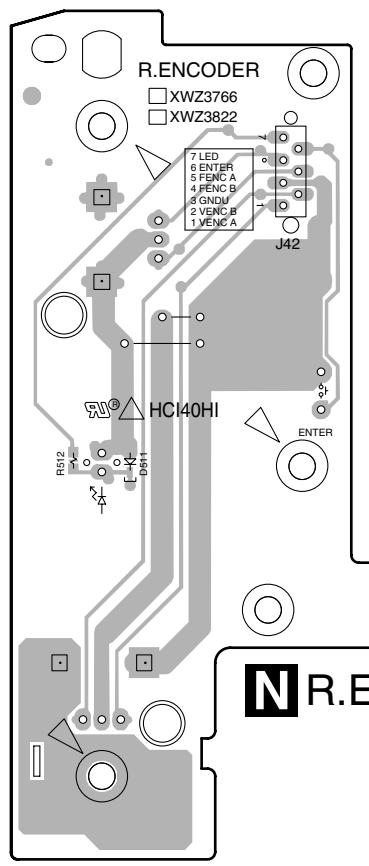
A



B



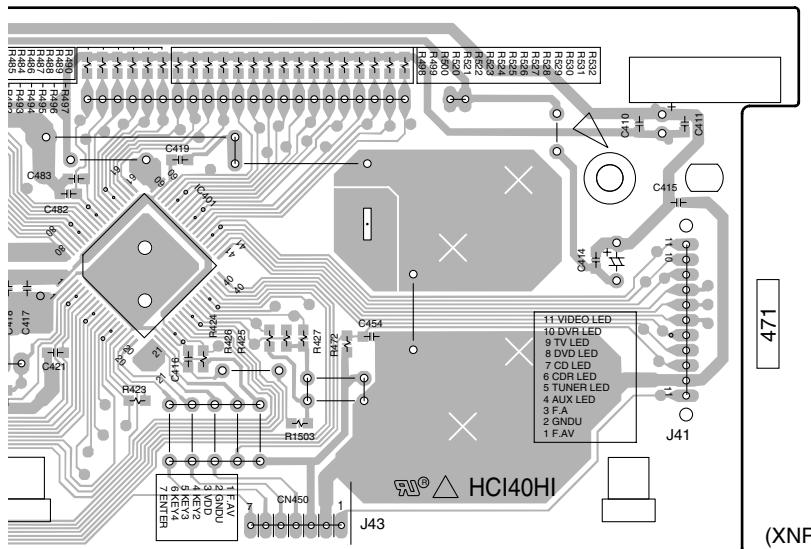
C



D

M N P

SIDE B



M FRONT DISPLAY ASSY

Q441
Q442
Q484
IC401

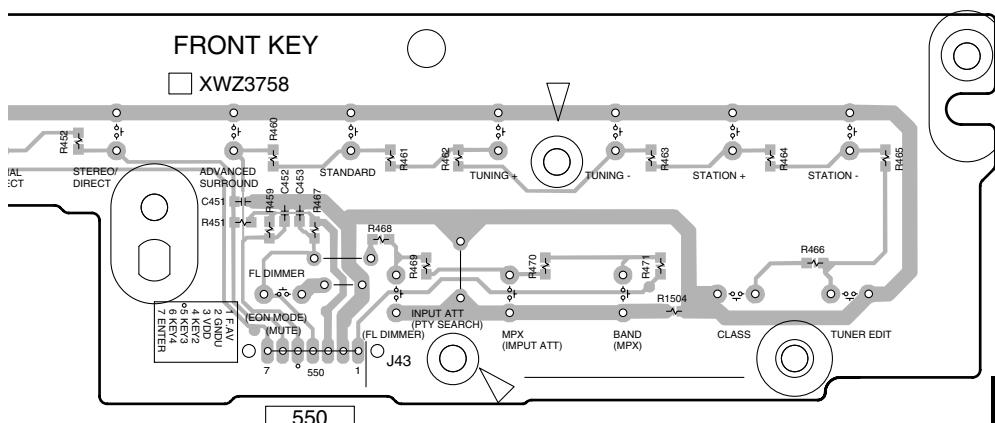
471

(XNP3074-B)

CN450

FRONT KEY

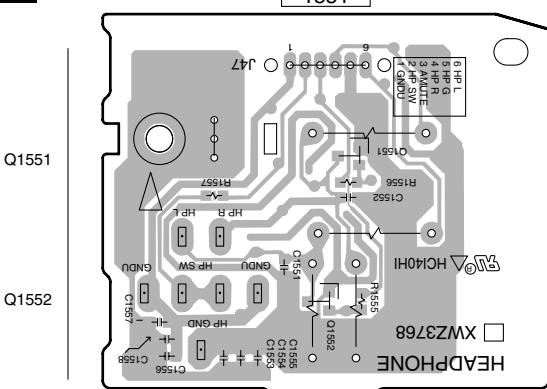
XWZ3758



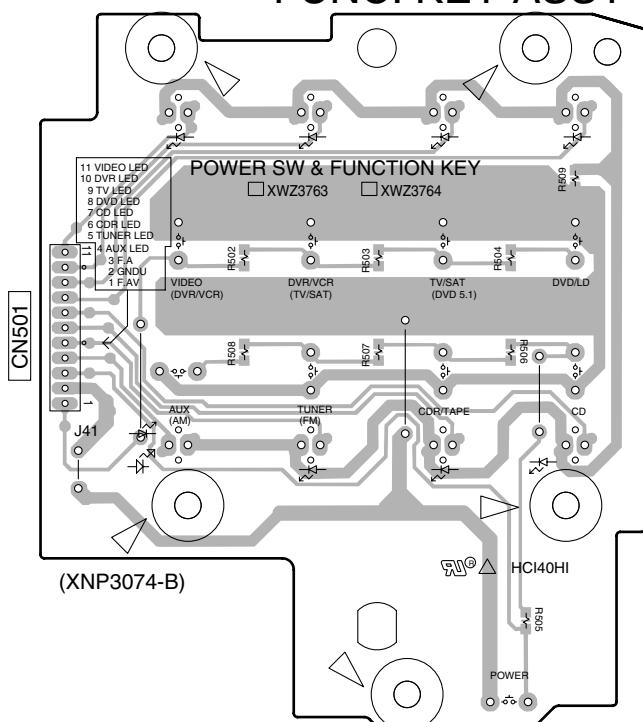
O P. SW & FUNC. KEY ASSY

R H.P ASSY

1551



(XNP3074-B)



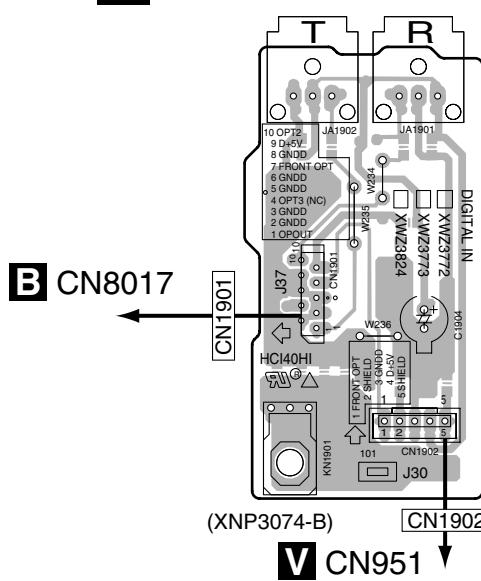
MOPR

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

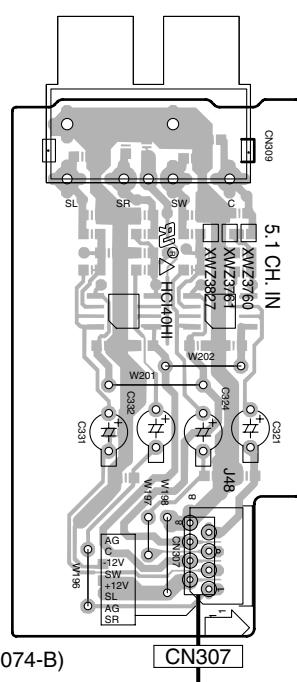
SIDE A

SIDE A

T DIGITAL IN ASSY

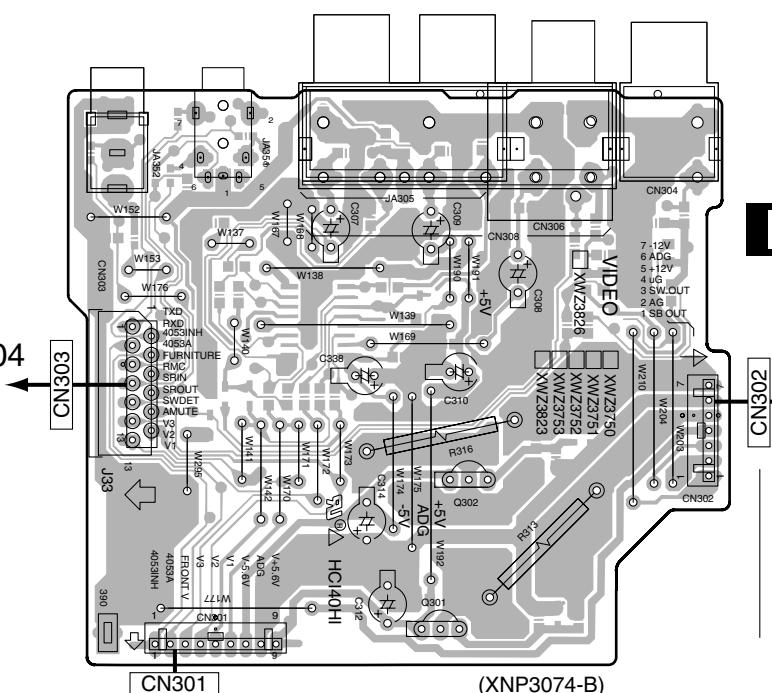


J 5.1CH ASSY



A CN105

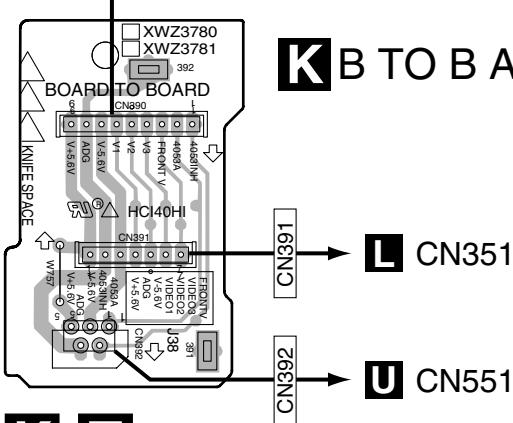
I VIDEO ASSY



F CN803

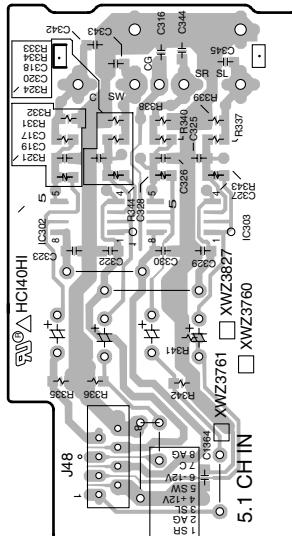
Q302
Q301

K B TO B ASSY

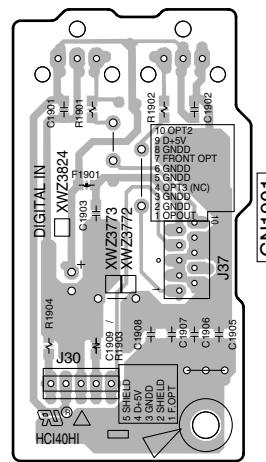


I **J** **K** **T**

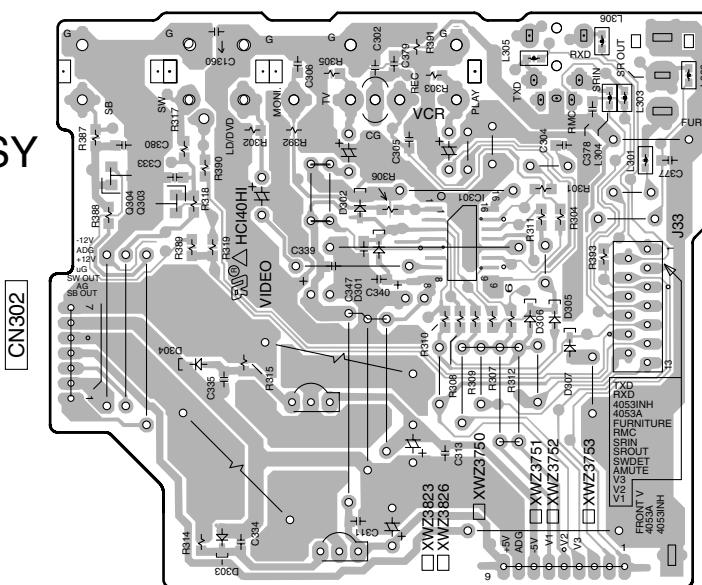
I **J** **K** **T**

SIDE B**SIDE B****J 5.1CH ASSY**

CN307 (XNP3074-B)

IC302
IC303**T DIGITAL IN ASSY**

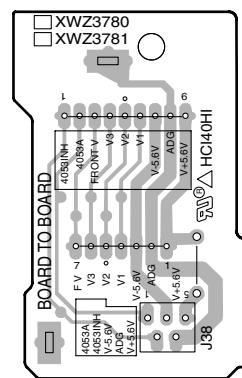
CN1902 (XNP3074-B)

I VIDEO ASSY

(XNP3074-B)

CN301

CN390

K B TO B ASSY

(XNP3074-B)

CN392

CN391

I J K T**I J K T**

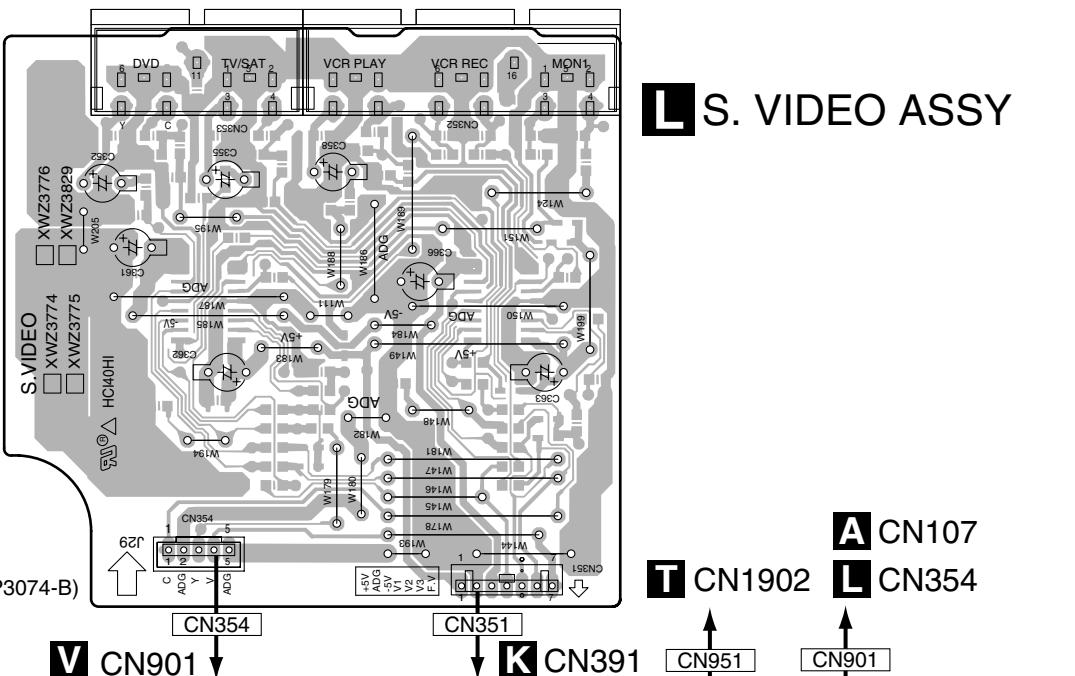
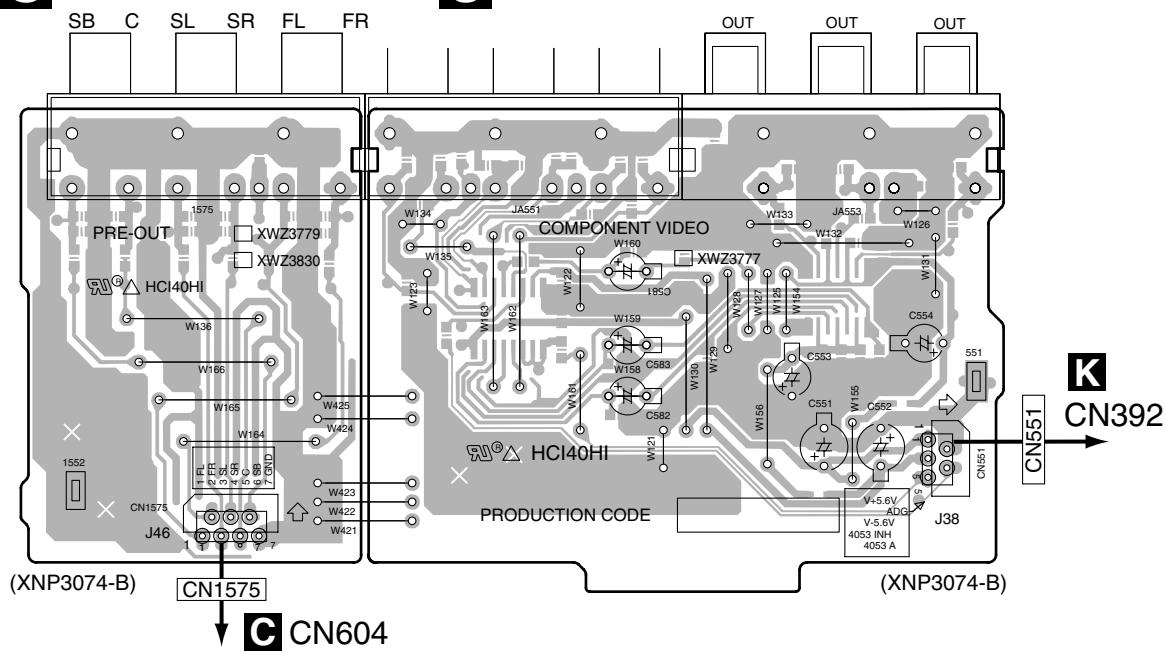
4.8 S.VIDEO, F.VIDEO&OPT&MIC, COMPONENT and PRE-OUT ASSYS

SIDE A

S PRE-OUT ASSY

U COMPONENT ASSY

SIDE A



L S. VIDEO ASSY

A CN107

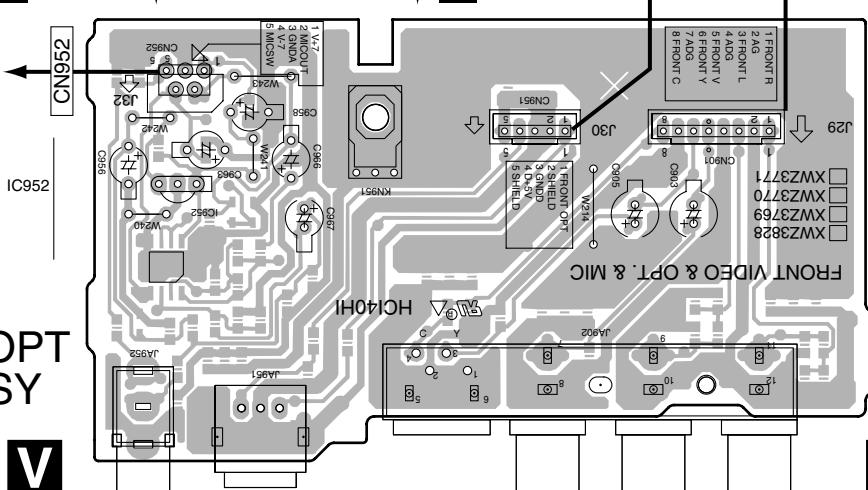
T CN1902

L CN354

V

**FRONT
VIDEO & OPT
& MIC ASSY**

L S U V

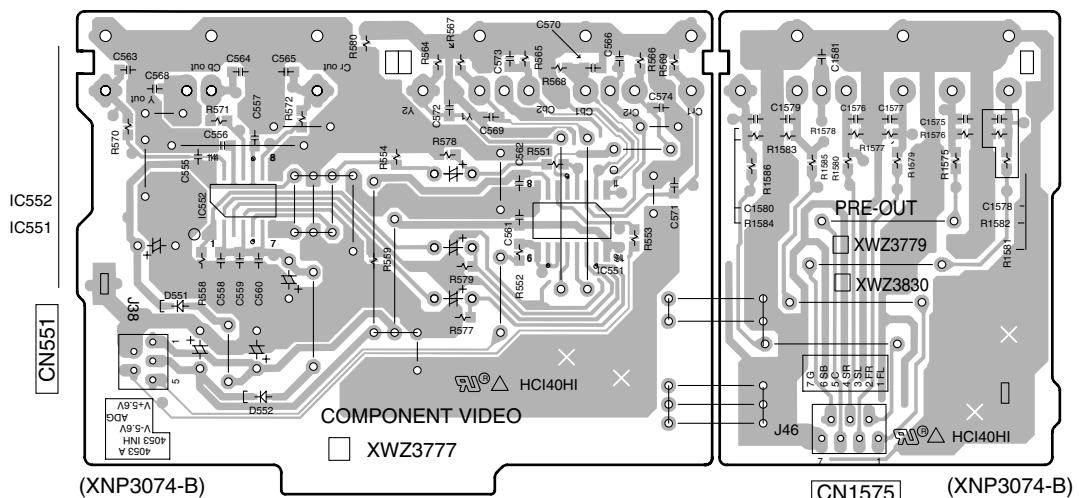
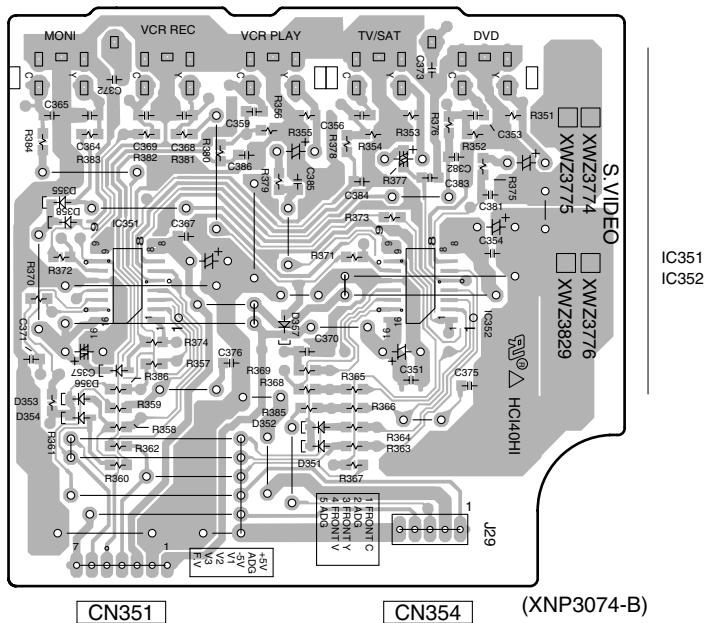
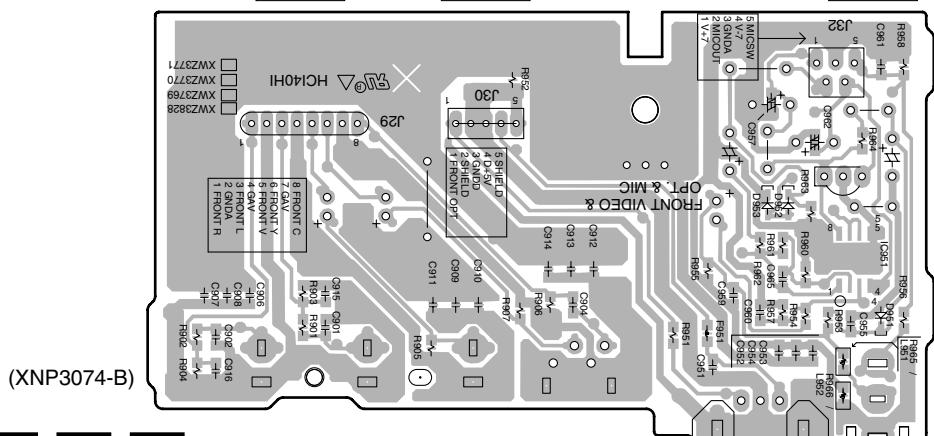


(XNP3074-B)

L S U V

SIDE B

SIDE B

U COMPONENT ASSY**L** S. VIDEO ASSY**V**
FRONT
VIDEO & OPT
& MIC ASSY**L S U V**

VSX-D814-K

L S U V

5. PCB PARTS LIST

- A 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	56×10^1	\rightarrow	561	.....	RD1/4PU[5|6|1]J
47k Ω	\rightarrow	47×10^3	\rightarrow	473	.....	RD1/4PU[4|7|3]J
0.5 Ω	\rightarrow	R50	.....			RN2H[R|5|0]K
1 Ω	\rightarrow	IRO	.....			RS1P[I|R|0]K

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

5.62k Ω	\rightarrow	562×10^1	\rightarrow	5621	RN1/4PC[5|6|2|1]F
----------------	---------------	-------------------	---------------	------	-------	-------------------

B	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
LIST OF ASSEMBLIES						

	1..MAIN ASSY	XWK3123	A	MAIN ASSY	SEMICONDUCTORS	
	1..DSP ASSY	AWX1082	IC109			BD3812F
	1..AMP & PS ASSY	XWK3143	IC108			BD3813KS
NSP	2..AMP & PRIMARY ASSY	XWZ3793	IC101			BD3841FS
	2..REGULATOR ASSY	XWZ3799	IC5001			BU1924F
	2..AMP INPUT ASSY	XWZ3804	IC102			NJM2100M
	2..TRANS1 ASSY	XWZ3807	IC9001			PEG062A
C	2..TRANS2 ASSY	XWZ3811	IC103–IC107, IC110–IC112, IC115			UPC4570G2
	2..TRANS3 ASSY	XWZ3814	Q5004, Q6001			2SA1037K
	2..BINDER ASSY	XWZ3818	Q5009			2SC2412K
	2..HOLDER ASSY	XWZ3821	Q165, Q166, Q321, Q322			2SC3326
NSP	1..COMPLEX ASSY	XWK3131	Q341, Q342, Q361, Q362, Q395			2SC3326
	2..VIDEO ASSY	XWZ3753	Q5001			2SD1664
	2..FRONT DISPLAY ASSY	XWZ3756	Q229, Q230			2SK208
	2..FRONT KEY ASSY	XWZ3758	Q167, Q231, Q9002–Q9005			DTA124EK
	2..5.1CH ASSY	XWZ3760	Q9008			DTA143TK
D	2..P. SW & FUNC. KEY ASSY	XWZ3764	Q232, Q6002			DTC124EK
	2..H.P. ASSY	XWZ3768	Q168, Q5003, Q6007, Q6008, Q9001			DTC143EK
	2..F. VIDEO & OPT & MIC ASSY	XWZ3771	Q9006			DTC143EK
	2..DIGITAL IN ASSY	XWZ3773	Q9007			DTC143TK
	2..S. VIDEO ASSY	XWZ3776	D103–D108, D229, D230, D301			1SS355
	2..COMPONENT ASSY	XWZ3777	D311, D312, D6001, D6002			1SS355
	2..TRANS4 ASSY	XWZ3778	D9001–D9013			1SS355
	2..PRE-OUT ASSY	XWZ3779	D101, D102			RB501V-40
	2..B TO B ASSY	XWZ3781	D5007			UDZS10B
	2..R. ENCODER ASSY	XWZ3822	D331, D332			UDZS6.8B
	1..FM/AM TUNER UNIT	AXX7170				

E	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	COILS AND FILTERS
				L9001, L9002 CHIP SOLID INDUCTOR ATL7002
				L5001, L9003
				L101–L104, L111, L112, L5002 QTL1013
				CHIP SOLID INDUCTOR

F	COMPLEX ASSY	OTHERS	CAPACITORS
	J42 JUMPER WIRE	D15A07-075-2651	C101–C114, C151, C152
	J47 JUMPER WIRE	D20PYY0630E	C163, C164, C181–C192
	J43 JUMPER WIRE 7P	D20PYY0708E	C197, C198, C243, C244, C263
	J41 JUMPER WIRE 11P	D20PYY1107E	C284, C313, C314, C317, C318
			C323, C324, C343, C344, C363
			C386
			C1031, C1041, C117, C118
			C5013, C5014
			C205–C208, C245–C248, C265
			C267, C286, C288

F	AMP & PS ASSY	OTHERS	
	Y8 AWG14 BOARD IN	ADX7284	
	J21 JUMPER WIRED	D20PYY0715E	
			C203, C204
			C5017
			CCSRCH471J50
			CCSRCH561J50

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

C366
C121-C128, C131-C142
C167, C168, C209, C210

CEANP4R7M50
CEAT100M50
CEAT100M50

C213, C214, C249, C250
C269, C270, C290, C301-C306
C321, C322, C341, C342
C361, C362, C380, C382, C384
C5015

CEAT100M50
CEAT100M50
CEAT100M50
CEAT100M50
CEAT101M10

C5007
C169
C201, C202, C241, C242
C261, C262, C282, C5011,C9005
C9007

CEAT101M16
CEAT221M6R3
CEAT2R2M50
CEAT2R2M50
CEAT331M6R3

C325, C326, C345, C346, C365
C388
C155, C156
C333, C334
C9013

CEAT470M25
CEAT470M25
CEAT470M50
CEAT471M10
CEAT471M6R3

C165, C166, C370
C170
C320, C392, C5001,C5016
C9015,C9016
C115, C116, C153, C154, C171

CEAT4R7M50
CKSQYB104K16
CKSRYB102K50
CKSRYB102K50
CKSRYB103K50

C179, C180, C199, C215-C218
C251, C252, C266, C271, C272
C291, C292, C315, C316, C319
C327-C330, C347, C348
C367, C368, C389, C390, C5002

CKSRYB103K50
CKSRYB103K50
CKSRYB103K50
CKSRYB103K50
CKSRYB103K50

C5008,C9004,C9008,C9017
C219, C220, C309-C312
C5003,C9006
C264
C257, C258, C277, C278, C298

CKSRYB103K50
CKSRYB104K16
CKSRYB105K10
CKSRYB223K25
CKSRYB472K50

CKSRYB472K50
CKSRYB473K16
CKSRYB562K50
CKSRYF104Z16
PCH1132

RESISTORS

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

RS1/16S470J
RS1/16S472J
RS1/LMF101J
RS1/16S###J

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

B DSP ASSY SEMICONDUCTORS

IC8201
IC8401
IC8501
IC8601
IC8602

AK4114VQ
AK4628VQ
DSPD56367PV150
IS61LV6416-12T
IS63LV1024-12T

NJM2391DL1-33
NJU7223DL1-18
PD8116A
TC74HCU04AF
TC74LVX244FT

TC74VHCT244AFT
TC7WH125FU
TC7WU04FU
UMD2N
UN5112

IC8901
IC8902
IC8603
IC8101
IC8701

IC8702
IC8503
IC8502
Q8504
Q8503

TC74VHCT244AFT
TC7WH125FU
TC7WU04FU
UMD2N
UN5112

Q8501
D8501
D8401
D8402,D8502,D8503

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

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
CN109 18P SOCKET
CN111 20P SOCKET
101-103 PCB BINDER

52045-1945
B3B-PH-K
KP200TA18L
KP200TA20L
VEF1040

JA101-JA104 PIN JACK(4P)
X5001 CRYSTAL RESONATOR
(4.332 MHz)
X9001 CERAMIC RESONATOR
(15.7 MHz)

XKB3017
ASS7004
XSS3004

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

A

C

D

E

F

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

C8203

CKSRYB473K50

RESISTORS

A	R8506	RAB4C101J
	R8201	RS1/16S1802F
	Other Resistors	RS1/16S###J

OTHERS

CN8012 19P CONNECTOR	52045-1945	C712 C609, C610, C635, C659, C660 C685	CEAT101M10 CEAT101M16 CEAT101M16
JA8101 2P PIN JACK	AKB7131	C711	CEAT101M35
CN8003 13P SOCKET	AKP7070	C53	CEAT102M16
CN8007 19P SOCKET	AKP7073	C697	CEAT221M10
JA8102 OPT. LINK IN	GP1FA513RZB	C54	CEAT470M25
CN8017 10P CONNECTOR	VKN1414	C605, C606, C633, C655, C656	CEAT4R7M50
X8501 CRYSTAL RESONATOR (20 MHz)	VSS1171	C683	CEAT4R7M50
X8201 CRYSTAL RESONATOR (24.576 MHz)	XSS3003	C705, C706 C607, C608, C634, C657, C658 C684	CEHAT100M2A CKPUYB101K50 CKPUYB101K50
		C696, C769, C770	CKPUYB102K50
		C603, C604, C632, C653, C654	CKPUYB331K50
		C682	CKPUYB331K50
		C55-C57	CKPUYF103Z25
		C751-C756, C761-C764	CQMBA224J50
		C771, C772	CQMBA224J50
		C757-C759, C765-C768, C773	CQMBA472J50

C AMP & PRIMARY ASSY**SEMICONDUCTORS**

⚠ IC52 PROTECTOR(500mA)	AEK7005	C51, C52 (10000pF/250V(AC))	XCG3009
⚠ IC603 PROTECTOR(1A)	AEK7009	C703, C704 (3300/42V)	XCH3012
⚠ IC604-IC607 PROTECTOR(125mA)	AEK7022	C701, C702 (4700/71V)	XCH3013
IC701, IC702 PROTECTOR(400mA)	ICP-N10		
IC51	NJM78M56FA		
⚠ IC601, IC602	PAC011A	RESISTORS	
Q703, Q721	2SA1145	R617, R622, R639, R667, R668	ACN7094
Q702	2SA2005	R691 (0.22/5W)	ACN7094
Q696, Q697	2SC1740S	⚠ R52	RD1/2PM270J
Q704, Q722	2SC1845	⚠ R615	RD1/4PU331J
Q605, Q606, Q633, Q655, Q656	2SC2240	⚠ R751, R752, R755, R761, R762	RD1/4PUF101J
Q683	2SC2240	⚠ R772	RD1/4PUF101J
Q701	2SC5511	⚠ R753, R754, R756, R763, R764	RS1LMF4R7J
Q601-Q604, Q631, Q632	2SC5974A	⚠ R771	RS1LMF4R7J
Q651-Q654, Q681, Q682	2SC5974A	⚠ R711	RS2LMF332J
Q51	DTC143ES	Other Resistors	RD1/4PU###J
D56, D57, D601, D603, D606	1SS133		
D608, D631, D632, D651-D654	1SS133		
D683, D684, D751-D754	1SS133		
D757, D758	1SS133		
⚠ D701, D702	D5SBA20	OTHERS	
D711	MTZJ22D	CN604 7P CONNECTOR	52045-0745
D58, D712	MTZJ5.1B	CN53 23P CONNECTOR	52045-2345
D602, D604, D681, D682	MTZJ8.2A	CN702 6P JUMPER CONNECTOR	52147-0610
⚠ D51-D55, D721-D724	S5688G	H51, H52 FUSE CLIP	AKR7001
		⚠ T51 STANDBY TRANSFORMER	ATT7040
		CN601 18P PLUG	KM200TA18
		CN51 AC CODE SOCKET	RKP1751
		KN51, KN601 EARTH METAL FITTING	VNF1084
		CN751 SP TERMINAL 8-P(V0)	XKE3017
		CN753 SP TERMINAL 6-P(V0)	XKE3018
		CN752 SP TERMINAL 4-P(V0)	XKE3019
		⚠ 701 7P CABLE HOLDER	XKP3047

E COILS AND FILTERS

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

SWITCHES AND RELAYS

RY51	XSR3006
RY751-RY754	XSR3007

CAPACITORS

C707, C708 (0.01/AC250V)	ACG1005
C611-C614, C636, C637	CCPUCHE6R8K50
C661-C664, C686, C687	CCPUCHE6R8K50
C615, C616, C638, C665, C666	CEANP2R2M50
C688	CEANP2R2M50
C775, C776	CEANP470M50

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

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, C769, C770

CKPUYB102K50

C603, C604, C632, C653, C654

CKPUYB331K50

C682

CKPUYB331K50

C55-C57

CKPUYF103Z25

C751-C756, C761-C764

CQMBA224J50

C771, C772

CQMBA224J50

C757-C759, C765-C768, C773

CQMBA472J50

C51, C52 (10000pF/250V(AC))

XCG3009

C703, C704 (3300/42V)

XCH3012

C701, C702 (4700/71V)

XCH3013

RESISTORS

R617, R622, R639, R667, R668

ACN7094

R691 (0.22/5W)

ACN7094

⚠ 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

RS2LMF332J

Other Resistors

RD1/4PU###J

OTHERS

CN604 7P CONNECTOR

52045-0745

CN53 23P CONNECTOR

52045-2345

CN702 6P JUMPER CONNECTOR

52147-0610

H51, H52 FUSE CLIP

AKR7001

⚠ T51 STANDBY TRANSFORMER

ATT7040

CN601 18P PLUG

KM200TA18

CN51 AC CODE SOCKET

RKP1751

KN51, KN601 EARTH METAL FITTING

VNF1084

CN751 SP TERMINAL 8-P(V0)

XKE3017

CN753 SP TERMINAL 6-P(V0)

XKE3018

CN752 SP TERMINAL 4-P(V0)

XKE3019

⚠ 701 7P CABLE HOLDER

XKP3047

D TRANS2 ASSY**SEMICONDUCTORS**

⚠ IC853 PROTECTOR (3A)

AEK7015

⚠ IC851, IC852 PROTECTOR (4A)

AEK7018

OTHERS

851 7P CABLE HOLDER

XKP3047

E TRANS3 ASSY

TRANS3 ASSY has no service part.

Mark No.**Description****Part No.**** 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
C805, C806	CEHAT101M16
C803, C804, C807, C810, C812	CKPUYF103Z25
C814	CKPUYF103Z25

RESISTORS

R801	RS3LMF331J
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OTHERS

CN801 23P CONNECTOR	52045-2345
CN805 13P PLUG	AKP7059
CN806 19P PLUG	AKP7062
CN804 18P PLUG	KM200TA18
CN802 20P PLUG	KM200TA20
CN803 7P PLUG	KM200TA7

** AMP INPUT ASSY
SEMICONDUCTORS**

IC251	NJM4558D-D
Q257	2SA933S
Q251, Q256	2SC5974A
Q252	2SD1858X
Q254	DTA124ES
Q253, Q255	DTC124ES
D251, D252	1SS133
D253	MTZJ27D
D254	MTZJ5.1B

CAPACITORS

C251	CEANP470M25
C254	CEAT101M25
C252, C253	CKPUYF103Z25

RESISTORS

All Resistors	RD1/4PU###J
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OTHERS

CN251 3P CONNECTOR	52044-0345
CN254 19P CONNECTOR	52044-1945
CN253 18P SOCKET	KP200TA18L
CN252 3PIN CONNECTOR	S3B-EH

 TRANS1 ASSY

TRANS1 ASSY has no service part.

Part No.**Mark No.****Description****Part No.**** VIDEO ASSY
SEMICONDUCTORS**

IC301	NJM2595M
Q302	2SA1515
Q303	2SC3326
Q301	2SC3377
D301, D302, D305, D306	1SS355
D307	UDZS5.1B
D303, D304	UDZS6.2B

COILS AND FILTERS

L301-L306 CHIP SOLID INDUCTOR	QTL1013
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CAPACITORS

C347	CCSRCH470J50
C307-C310, C312, C314, C338	CEAT470M25
C1360,C302, C379	CKSRYB103K50
C339, C340	CKSRYB104K25
C304-C306	CKSRYB221K50
C333	CKSRYB331K50
C311, C313	CKSRYB473K25

RESISTORS

⚠ R313, R316	RS3LMF390J
Other Resistors	RS1/16S###J

OTHERS

CN303 13P CONNECTOR	52044-1345
JA305 PIN JACK(4P)YELLOW	AKB7100
CN302 7P SOCKET	KP200TA7L
CN301 9P SOCKET	KP200TA9L
JA352 JACK	RKN1026
CN306 2P PIN JACK	XKB3041
JA351 MINI JACK(4P) /W SW	XKN3015

** 5.1CH ASSY
CAPACITORS**

C342-C345	CCSRCH101J50
C321, C324, C331, C332	CEAT4R7M50
C1364	CKSRYB102K50
C316	CKSRYB103K50
C317, C318, C325, C326	CKSRYB221K50

RESISTORS

All Resistors	RS1/16S###J
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OTHERS

CN307 8P CONNECTOR	52044-0845
CN309 PIN JACK(4P)	XKB3035

** B TO B ASSY
OTHERS**

CN392 5P CONNECTOR	52045-0545
CN391 7P PLUG	KM200TA7
CN390 9P PLUG	KM200TA9
391 PCB BINDER	VEF1040

** S. VIDEO ASSY
SEMICONDUCTORS**

	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
	IC351, IC352 D351-D358		NJM2595M 1SS355			
A	CAPACITORS C375, C376, C381-C386 C352, C355, C358, C361-C363 C366 C372, C373 C351, C353, C354, C356, C357		CCSRCH470J50 CEAT470M25 CEAT470M25 CKSRYB103K50 CKSRYB104K25		SWITCHES AND RELAYS S511 S513 ROTARY ENCODER S512 ROTARY ENCODER	VSG1024 XSX3005 XSX3006
	C359, C367 C364, C365, C368-C371		CKSRYB104K25 CKSRYB221K50		RESISTORS All Resistors	RS1/16S###J
	RESISTORS All Resistors		RS1/16S###J		OTHERS 511 CABLE HOLDER (7P)	51063-0705
B	OTHERS CN353 2-4P MINI DIN SOCKET CN352 3-4P MINI DIN SOCKET CN354 CONNECTOR POST CN351 7P SOCKET		AKP7020 AKP7043 B5B-PH-K KP200TA7L		O P. SW & FUNC. KEY ASSY SEMICONDUCTORS D501-D508	SLI-343DCW
					SWITCHES AND RELAYS S501-S509	VSG1024
					RESISTORS All Resistors	RS1/16S###J
C	IC401 Q484 Q441, Q442 D403-D405 D401		PE5420A 2SA1037K DTC124EK 1SS355 DAN202K		P FRONT KEY ASSY SWITCHES AND RELAYS S451-S469	VSG1024
	D500		SLI-343DCW		CAPACITORS C451-C453	CKSRYB102K50
	COILS AND FILTERS L401		LFEA2R2J		RESISTORS All Resistors	RS1/16S###J
					OTHERS 550 7P CABLE HOLDER	51048-0700
D	CAPACITORS C482, C483 C481 C442 C403 C412		CCSRCH221J50 CCSRCH471J50 CEAL470M10 CEAT221M6R3 CEAT470M50		Q TRANS4 ASSY SEMICONDUCTORS IC891, IC892 PROTECTOR (630mA) D891	AEK7006 S1WB(A)60SD
	C415, C454 C401, C402, C410, C411, C419 C441 C418, C421 C420 (220uF/35V)		CKSRYB102K50 CKSRYB103K50 CKSRYB103K50 CKSRYB104K16 XCH3011		CAPACITORS C891, C892	CEAT471M35
					OTHERS CN891 3P CONNECTOR	52045-0345
E	RESISTORS All Resistors		RS1/16S###J			
	OTHERS 471 11P CABLE HOLDER 404 CABLE HOLDER (7P) CN401 17P CONNECTOR CN450 7PJUMPER CONNECTOR V401 FL TUBE		51048-1100 51063-0705 52044-1745 52151-0710 XAV3022		R H.P. ASSY SEMICONDUCTORS Q1551,Q1552	2SC3326
	X401 CERAMIC RESONATOR (5 MHz) 401 REMOTE RECEIVERUNIT		VSS1142 GP1UM28XK		CAPACITORS C1554,C1557 C1553,C1556 C1555,C1558 C1551,C1552	CCSRCH471J50 CKSRYB103K50 CKSRYB104K16 CKSRYB223K50
					RESISTORS ⚠ R1553,R1554 ⚠ R1551,R1552 Other Resistors	RS1LMF151J RS2LMF331J RS1/16S###J
F	N R. ENCODER ASSY SEMICONDUCTORS D512 D511		SLI-343DCW UDZS5.6B			

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

1551 6P CABLE HOLDER
JA1551 HEADPHONE JACK
KN1551 EARTH METAL FITTING

51048-0600
RKB1014
VNF1084

S PRE-OUT ASSY**CAPACITORS**

C1581

CKSRYB103K50

RESISTORS

All Resistors

RS1/16S###J

OTHERS

CN1575 7P CONNECTOR
1575 PIN JACK(6P)

52045-0745
XKB3033

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 ASSY**SEMICONDUCTORS**

IC951
D951-D953

UPC4570G2
UDZS5.1B

Mark No. **Description****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

RESISTORS

All Resistors

RS1/16S###J

OTHERS

CN952 CONNECTOR 5P
CN951 CONNECTOR POST
CN901 CONNECTOR
JA951 OPTICAL IN MOD.
JA952 JACK

52045-0545
B5B-PH-K
B8B-PH-K
GP1FM513RZ
RKN1004

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

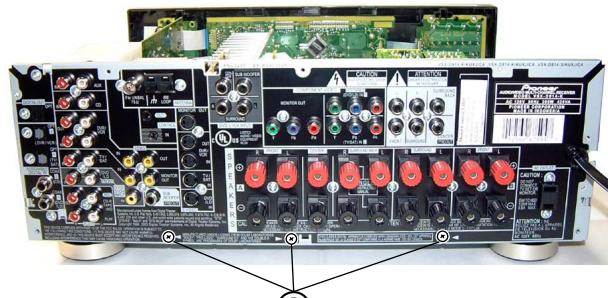
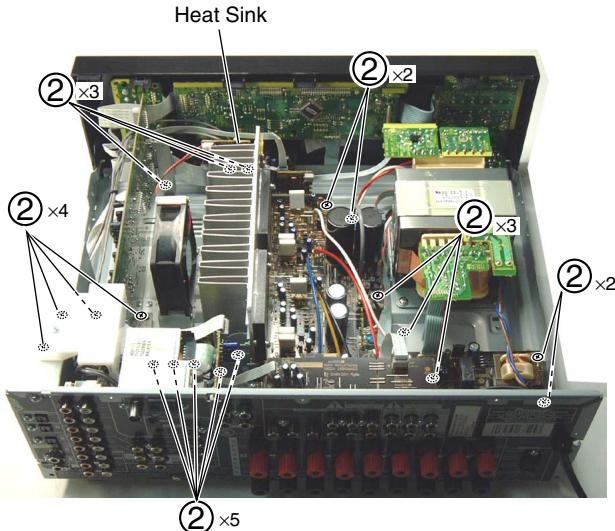
7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

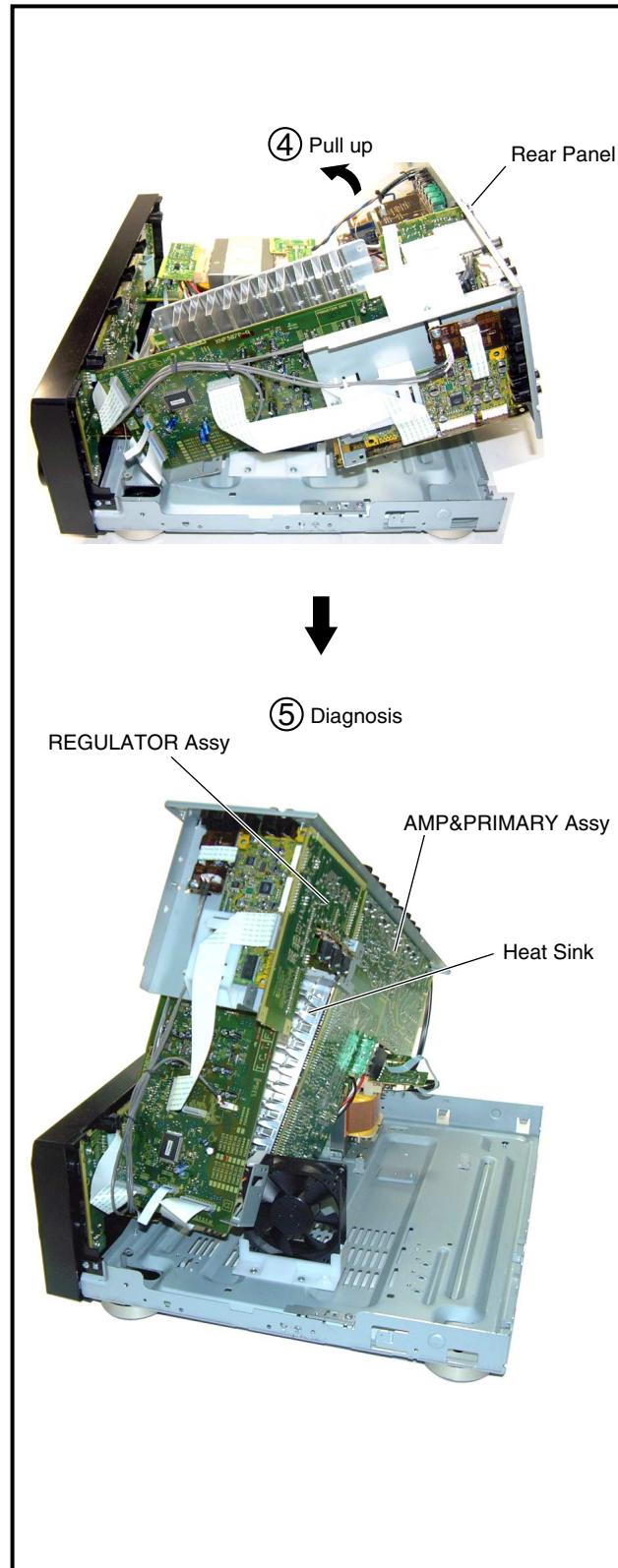
A

■ Diagnosis

- ① Remove the top cover (seven screws).



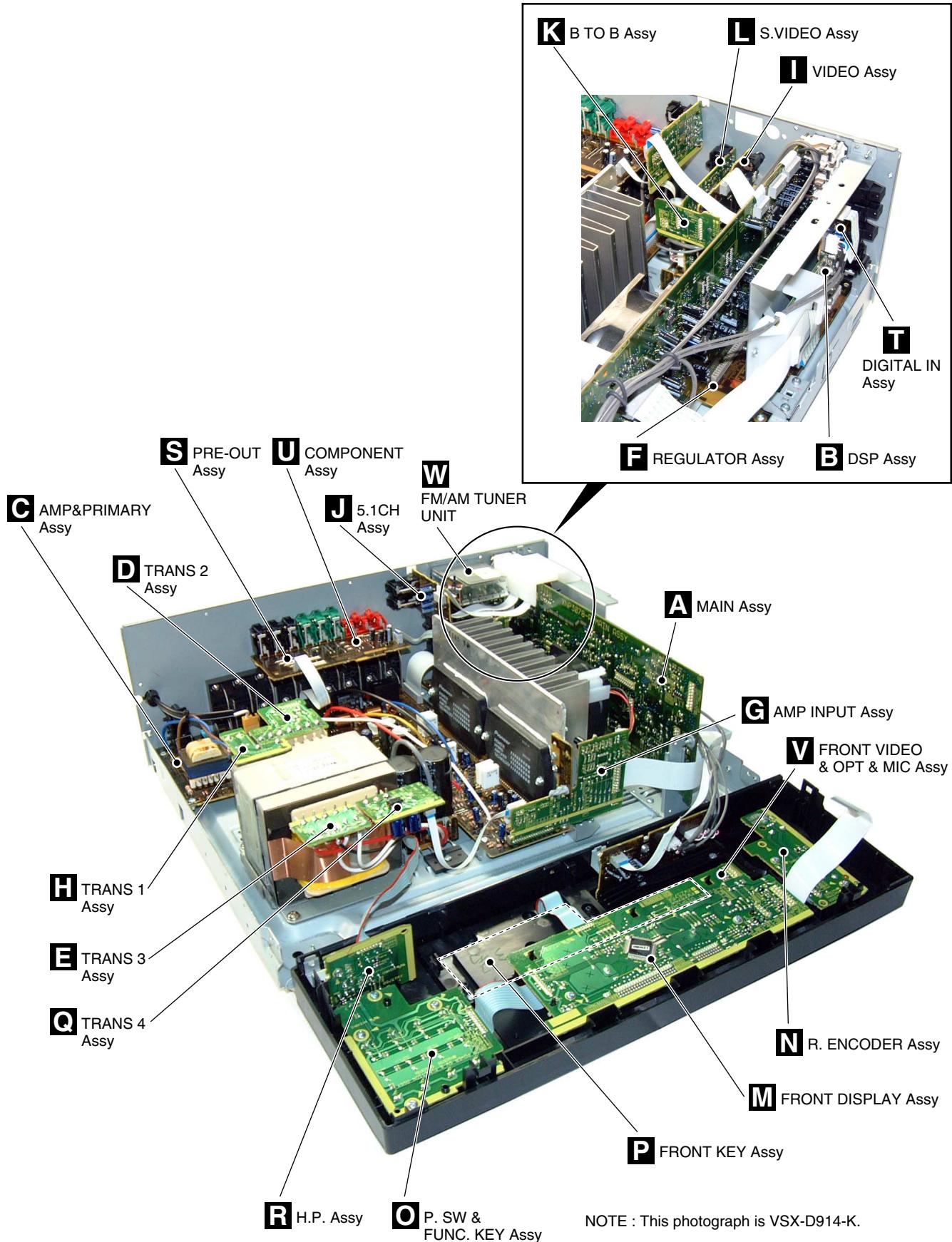
Note : This photograph may show a different model.
however, the method for disassembly is the same.



- ⑤ Diagnosis

F 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

A

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

- List of IC**

PEG062A, PE5420A

■ PEG062A (MAIN ASSY : IC9001)

- System Control MCU**

■ Pin Arrangement (Top View)

B

TUNER DO	81	P07/D7	50	XTL0
TUNER CLK	82	P06/D6	49	DIR_ERR
TUNER DI	83	P05/D5	48	DIR_CDC_RST
TUNER CE	84	P04/D4	47	NC
6 OHM	85	P03/D3	46	DIR_CS
NC	86	P02/D2	45	DIR_D0
NC	87	P01/D1	44	NC / P_PDPTEST
NC	88	P00/D0	43	DSP_MUTE
NC	89	P107/AN7/K13	42	DSP_MODE
DISP_RST	90	P106/AN6/K12	41	DSP_HREQ
DISP_EN	91	P105/AN5/K11	40	BUSY
DISP_RDY	92	P104/AN4/K10	39	DSP_SS
DISP_DI	93	P103/AN3	38	DSP_RST
DISP_DO	94	NC	37	DSP_CLK
DISP_CLK	95	NC	36	DSP_D0
GND	96	NC	35	DSP_DI
CNVSS	97	NC	34	232C_CTS
NC	98	NC	33	CLK
SIMUKE1	99	NC	32	232C_TXD
SIMUKE2	100	NC	31	232C_RXD
		P97/ADTRG/SIN4		
NC ← 1 P96/ANEX1/SOUT4			P44/CS0	50 ↓
DISP_RST ← 2 P95/ANEX0/CLK4			P45/CS1	49 ↑
DISP_EN ← 3 P94/DA1/TB4IN			P46/CS2	48 ↓
DISP_RDY → 4 P93/DA0/TB3IN			P47/CS3	47 ↓
DISP_DI ← 5 P92/TB2IN/SOUT3			P50/WRLWR	46 ↓
DISP_DO → 6 P91/TB1IN/SIN3			P51/WRH/BHE	45 ↓
DISP_CLK ← 7 P90/TB0IN/CLK3			P52/IRD	44 ↓
GND ← 8 BYTE			P53/BCLK	43 ↓
CNVSS ← 9 CNVss			P54/HDLDA	42 ↓
NC ← 10 P87/XCIN			P55/HOLD	41 ↓
NC ← 11 P86/XCOUT			P56/ALE	40 ↑
XRESET ← 12 RESET			P57/RDY/CLKOUT	39 ↓
XOUT ← 13 XOUT			P60/CTS0/RTS0	38 ↓
GND ← 14 VSS			P64/CTS1/RTS1	37 ↓
XIN ← 15 XIN			P65/CLK1	36 ↓
5V ← 16 VCC			P66/RxD1	35 ↓
NMI → 17 P85/NMI			P67/TxD1	34 ↓
ACIN(WAKEUP) → 18 P84/INT2				232C_CTS
1394_INT ← 19 P83/INT1 P85/NMI				232C_RXD
1W_WUP ← 20 P82/INT0				
DECO_MUTE → 21 P81/TA4IN/U				
NECK_SEL ← 22 P80/TA4OUT/U				
DC_PROT → 23 P77/TA3IN				
Boad_DET → 24 P76/TA3OUT				
MIC_DET → 25 P75/TA2IN/W				
1394_RST ← 26 P74/TA2OUT/W				
1394_CS ← 27 P73/CTS2/RTS2/TA1IN/V				
1394_CK ← 28 P72/CLK2/TA1OUT/V				
1394_DO ← 29 P71/RxD2/SCL/TA0IN/TB5IN				
1394_DI ← 30 P70/TxD2/SDA/TA0OUT				

C

- | | | |
|----------------|----|-------------------|
| P10/D8 | 80 | → NC |
| P11/D9 | 79 | → NC |
| P12/D10 | 78 | → NC |
| P13/D11 | 77 | → RDS_FM+ |
| P14/D12 | 76 | ← RDS_DT |
| P15/D13/INT3 | 75 | ← RDS_CLK |
| P16/D14/INT4 | 74 | → NC |
| P17/D15/INT5 | 73 | ← OL_DET |
| P20/A0/(D0/_) | 72 | → VIDEO1 |
| P21/A1/(D1/D0) | 71 | → VIDEO2 |
| P22/A2/(D2/D1) | 70 | → VIDEO3 |
| P23/A3/(D3/D2) | 69 | ← SWDET |
| P24/A4/(D4/D3) | 68 | → furniture |
| P25/A5/(D5/D4) | 67 | → 4053A |
| P26/A6/(D6/D5) | 66 | → 4053INH |
| P27/A7/(D7/D6) | 65 | → NC |
| Vss | 64 | → GND |
| P30/A8(/_D7) | 63 | → EVR_DT |
| Vcc | 62 | → 5V |
| P31/A9 | 61 | → EVR_CLK |
| P32/A10 | 60 | → LOW_CONSUMPTION |
| P33/A11 | 59 | → MVRATT |
| P34/A12 | 58 | → RY_AC |
| P35/A13 | 57 | ← HP_DET |
| P36/A14 | 56 | → RY_A |
| P37/A15 | 55 | → RY_C/R |
| P40/A16 | 54 | → RY_B |
| P41/A17 | 53 | → AMUTE |
| P42/A18 | 52 | → GAIN_SEL |
| P43/A19 | 51 | → INPUT_ATT |

D

E

F

• 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	NMI	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 , 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

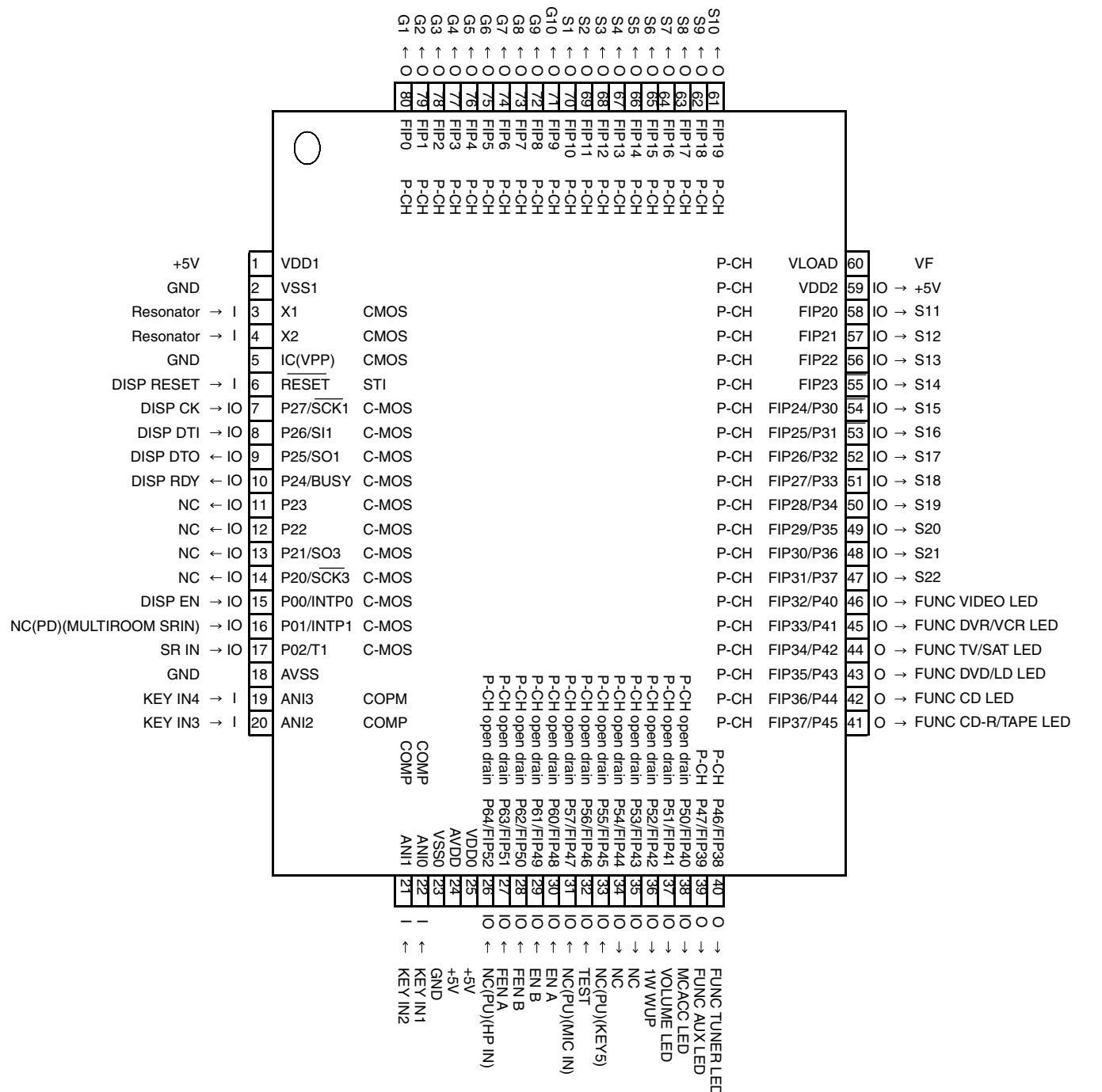
	No.	Port	Pin Name	I/O	Pin Function
A	51	P43/A19	INPUT_ATT	I/O	Analog input ATT(H : ATT ON)
	52	P42/A18	GAIN_SEL	I/O	Gain select (5.1ch and Stereo of analog input : H)
	53	P41/A17	AMUTE	I/O	System mute
	54	P40/A16	RY_B	I/O	Speaker B relay ON/OFF
	55	P37/A15	RY_C/R	I/O	Rear/Center Speaker relay ON/OFF
	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
B	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
C	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	RDS DT/NC	I/O	Data input signal for RDS module
	77	P13/D11 RDS	RDS FM+/NC	I/O	Power ON/OFF of RDS decoder
D	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	
E	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
F	100	P97/ADTRG/SIN4	NC	I/O	

■ PE5420A (FRONT ASSY : IC401)

A

- System Control MCU

■ Pin Arrangement (Top View)



• 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

A
B
C
D
E
F

• 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

A

B

C

D

E

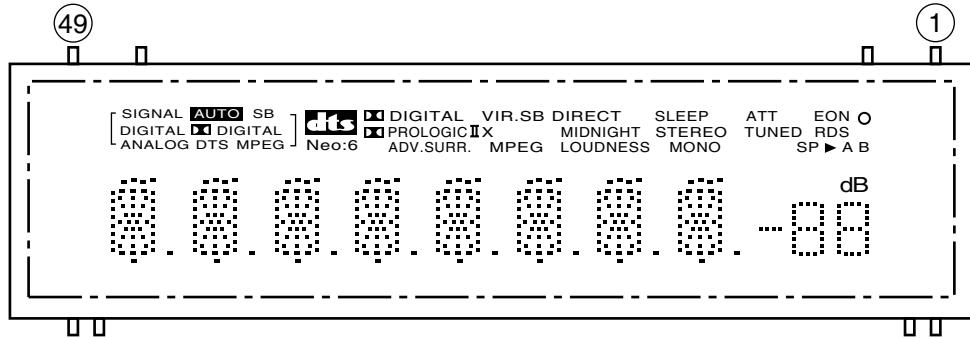
F

7.2.2 DISPLAY

A ■ XAV3022 (FRONT ASSY : V401)

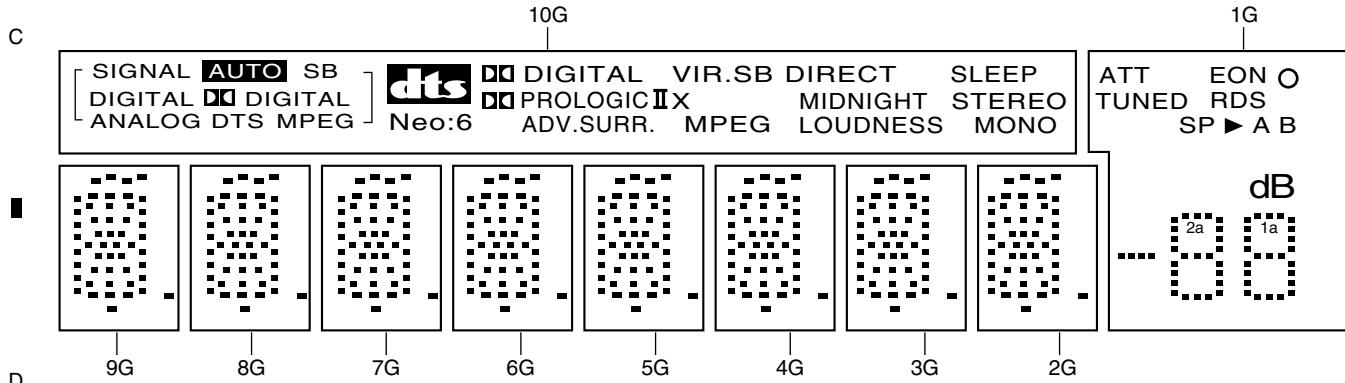
- FL DISPLAY

- Pin Assignment



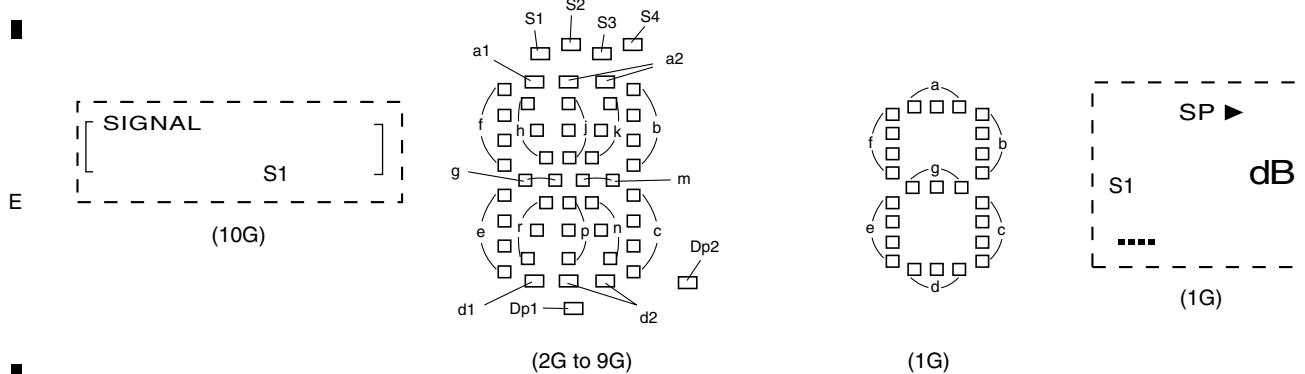
B

- Grid Assignment



D

- Segment Designation



F

• 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.

A

B

• 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

C

D

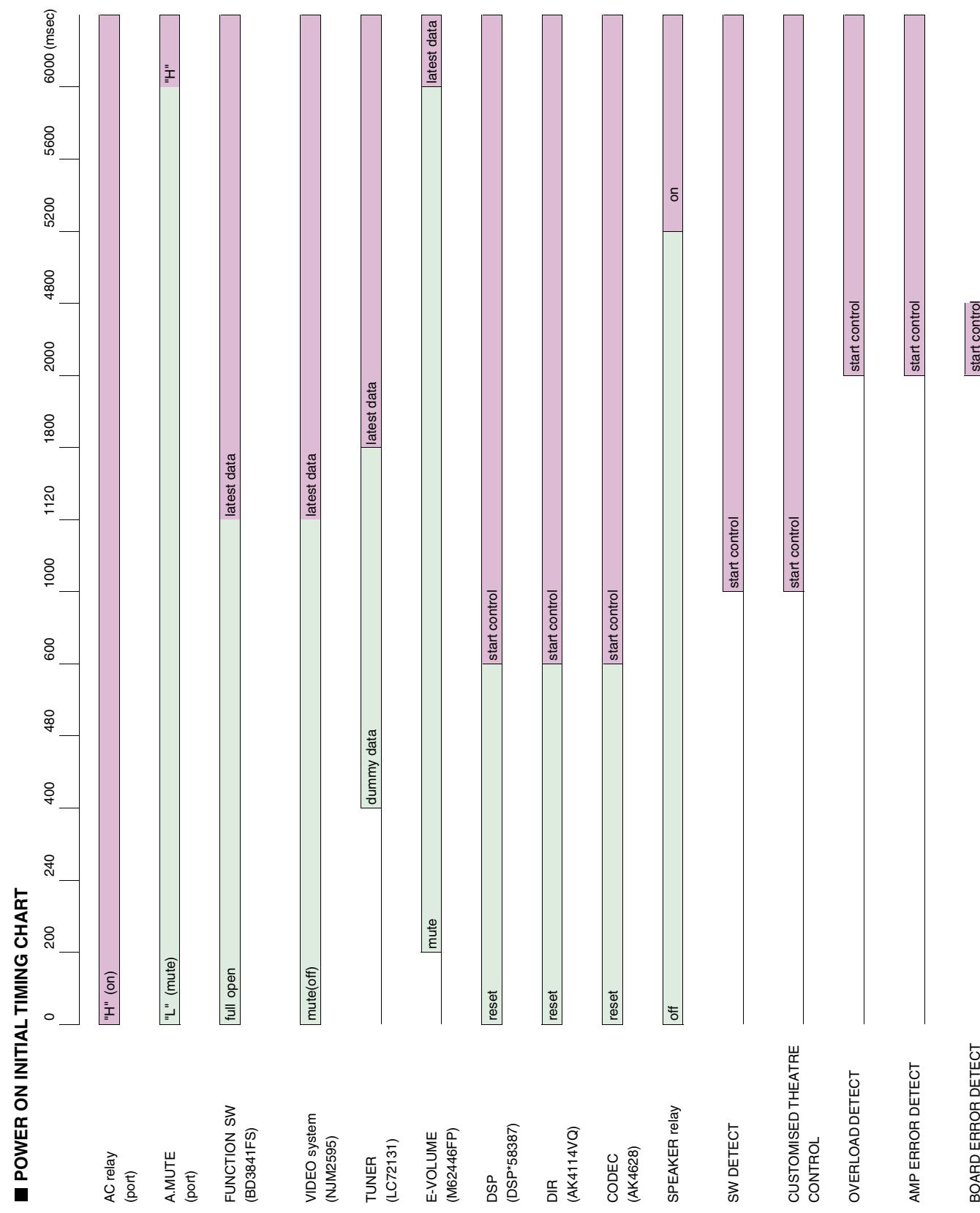
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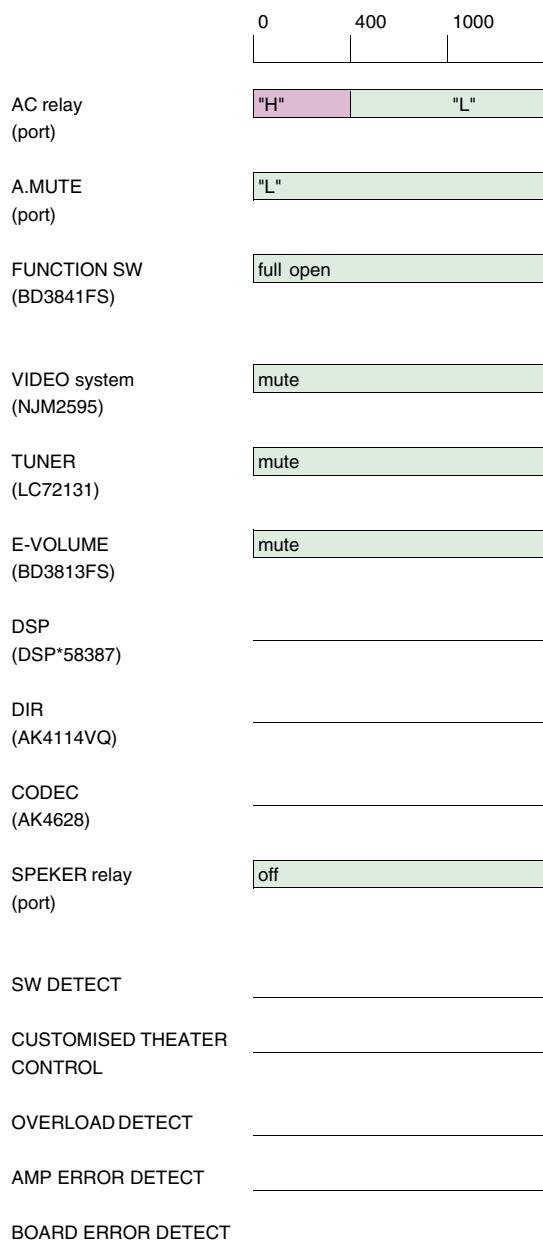
7.3 EXPLANATION

7.3.1 POWER ON AND OFF INITIAL TIMING CHART

A



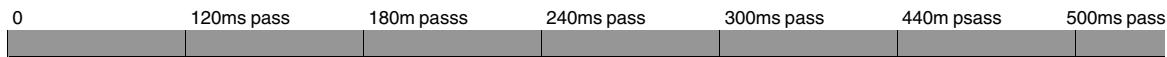
■ POWER OFF INITIAL TIMING CHART



7.3.2 IC DATA TRANSMISSION TIMING CHART

A ■ IC data transmission timing chart

1. When function change



A.MUTE (port)	"L"(mute)	"L"or"H"
------------------	-----------	----------

E-volume (BD3812,13)	Mute data	Last data
-------------------------	-----------	-----------

B function SW (BD3841)	Now data	Full open	New data
------------------------------	----------	-----------	----------

video select (NJM2256)	Now data	Full open	New data
---------------------------	----------	-----------	----------

DSP or direct change (BD3813)	Now data	New data
----------------------------------	----------	----------

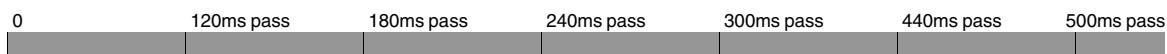
speaker relay (port)	Now data	New data
-------------------------	----------	----------

C

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



A.MUTE (port)	"L"(mute)	"L"or"H"
------------------	-----------	----------

E-volume (BD3812,13)	Mute data	Last data
-------------------------	-----------	-----------

DSP or direct change (BD3813)	Now data	New or last data
----------------------------------	----------	------------------

E speaker relay (port)	Now data	New data
------------------------------	----------	----------

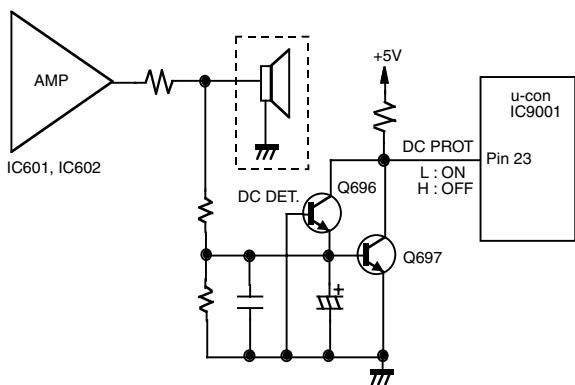
condition of mute cancel (system mute & E-volume mute)

- 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

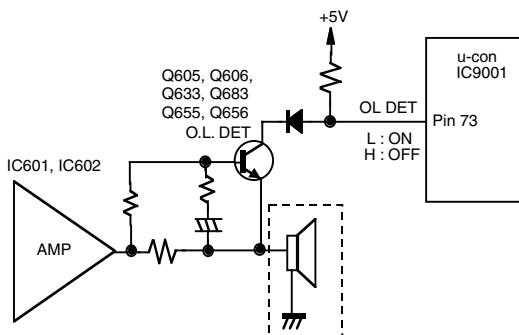
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7.3.3 DETECTION CIRCUIT

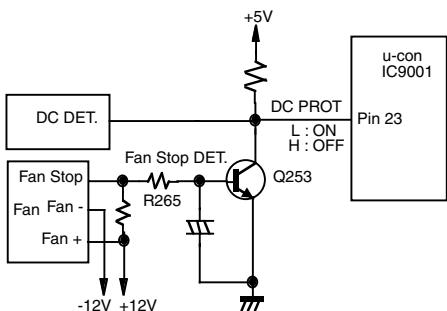
1.DC Detection Circuit Diagram:



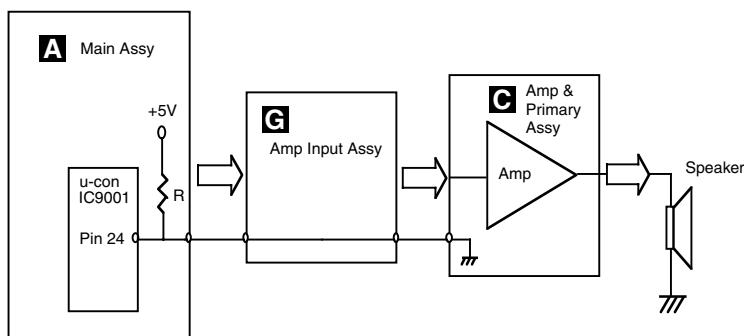
2. Overload Detection Circuit Diagram:



3. Fan Stop Protection Circuit Diagram:



4. PCB Board Protection Circuit Diagram



7.3.4 AMPLIFIER SYSTEM PROTECTION OPERATION SPECIFICATION

1. DC-abnormality detection

A

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.

When a DC abnormality is detected, A.MUTE* is turned on, speaker relay is turned off, then "AMP_ERR" flashes on the display.

*A.MUTE : Audio mute command

B



The abnormality continues for 3 seconds.

↓ Continues.

↓ Recovery

The power is shut off.

The program restarts.



The power key is disabled and Standby LED blinks.

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.)

C

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.

D

When an overload is detected, A.MUTE* is turned on, speaker relay is turned off, then "OVERLOAD" flashes on the display.



The abnormality continues for 3 seconds.

↓ Continues.

↓ Recovery

The power is shut off.

The power is shut off even if the unit recovers.

E

F

3. Board detection

A

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

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.

When an board error is detected, A.MUTE* is turned on,
speaker relay is turned off, then
"BOAD ERR" flashes on the display.



The abnormality continues for 2 seconds.

↓ Continues.

↓ Recovery

The power is shut off.

The power is shut off even if the
unit recovers.

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

C

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

When an abnormality of fan is detected,
A.MUTE* is turned on, speaker relay is turned off,
the "AMP_ERR" flashes on the display.

*A.MUTE : Audio mute command



The abnormality continues for 3 seconds.

↓ Continues.

↓ Recovery

The power is shut off.

The program restarts.



The power key is disabled.

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)

E

F

7.3.5 AMPLIFIER FAILURE DIAGNOSIS FLOW CHART

■ Amplifier failure diagnosis flow chart

A

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!

B

- 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)

D

E 7.4 CLEANING



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

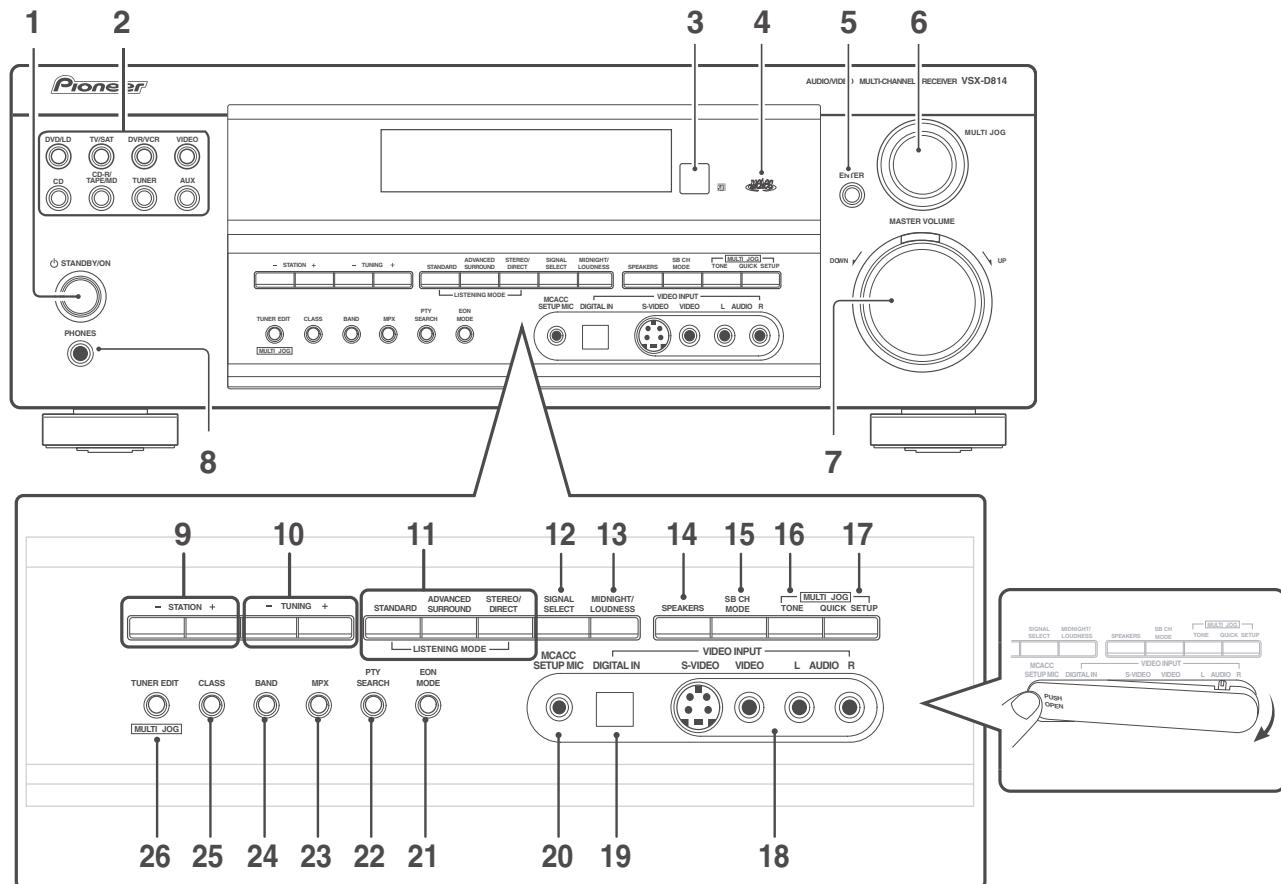
Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008

F

8. PANEL FACILITIES

A

Front panel



1 ⏻ STANDBY/ON

Switches the receiver between on and standby.

2 Input select buttons

Press to select an input source.

3 Remote sensor

Receives the signals from the remote control.

4 MCACC indicator

Lights after the MCACC setup is complete.

5 ENTER

6 MULTI JOGdial

The **MULTI JOG** dial performs a number of tasks. Use it to select options after pressing **TONE**, **QUICK SETUP** or **TUNER EDIT**.

7 MASTER VOLUME

8 PHONES jack

Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

F

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 II 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

15 SB CH MODE

Selects the Surround back channel mode and the Virtual Surround Back (VSB) 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

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

21 EON MODE

Use to search for different programs that are transmitting traffic or news information (this search method is called EON).

22 PTY SEARCH

Use to search for different program types in RDS mode.

23 MPX

Press to receive a radio broadcast in mono.

24 BAND

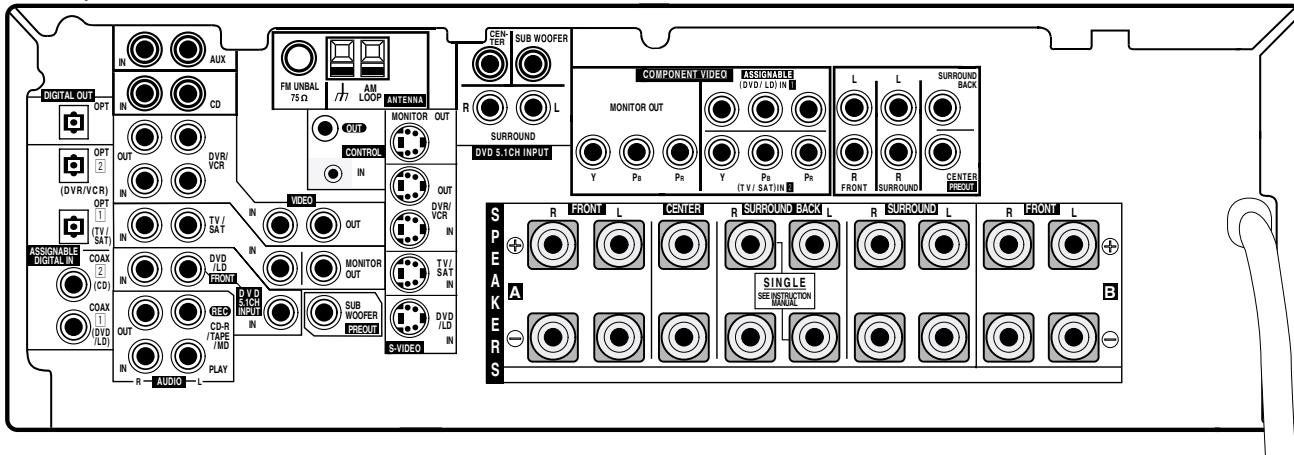
Switches between AM and FM radio bands.

25 CLASS

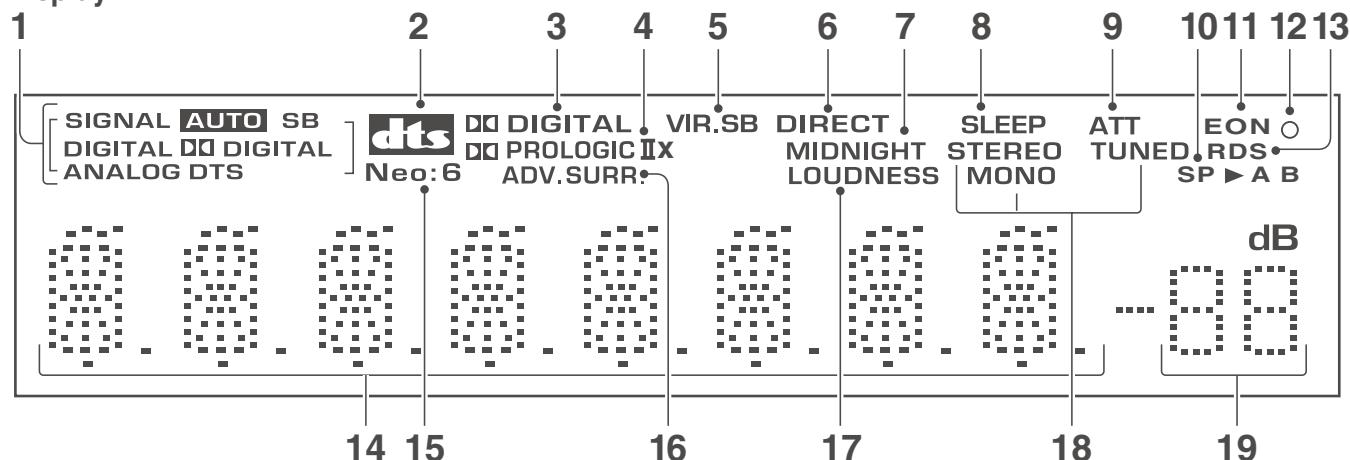
Switches between the three banks (classes) of station presets.

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.

DD 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 DD DIGITAL

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

4 DD 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 in use. 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 EON

When the **EON** mode is set, the **EON** indicator lights, but during actual reception of an EON broadcast the **EON** indicator will flash.

12 o indicator

The **o** indicator lights to inform you that the currently tuned station carries the EON data service.

13 RDS

Lights when an RDS broadcast is received.

14 Character display

15 Neo:6

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

16 ADV.SURR.(Advanced Surround)

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

17 LOUDNESS

Lights when **LOUDNESS** has been selected.

18 TUNERindicators

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.

19 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.

A

B

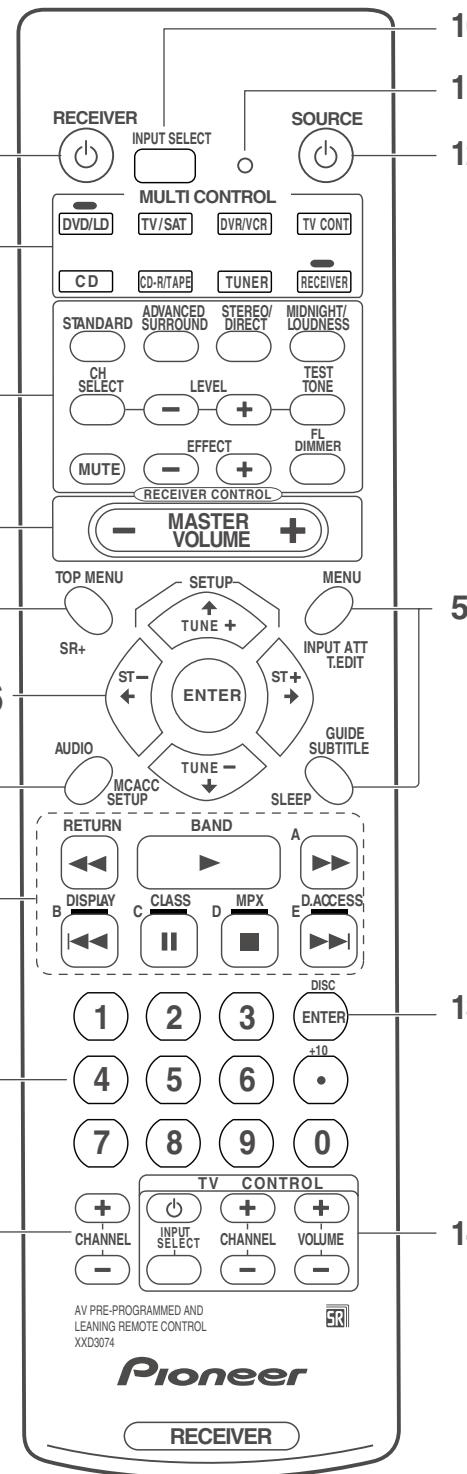
C

D

E

F

Remote control



1 RECEIVER \circlearrowright

This switches between standby and on for this receiver.

2 MULTI CONTROL buttons

Press to select control of other components.

RECEIVER

Switches the remote to control the receiver (used to select the features such as **SLEEP**, **MCACC SETUP**, etc). Also use this button to set up surround sound.

3 RECEIVER CONTROL buttons

STANDARD

Press for Standard decoding and to switch between the various Pro Logic II 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.

MIDNIGHT/LOUDNESS

Switches to Midnight or Loudness listening.

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.

TEST TONE

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

MUTE

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

EFFECT +/-

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

FL DIMMER

Dims or brightens the display.

4 MASTER VOLUME +/-

Use to set the listening volume.

5 Receiver and component control buttons (Press the corresponding MULTI CONTROL button first to access).

These controls function according to the component you've selected.

TOP MENU

Displays the disc 'top' menu of a DVD.

SR+

Switches the SR+ mode on/off.

AUDIO

Changes the audio language or channel with DVD discs.

MCACC SETUP

Use to setup your speaker system using the multichannel acoustic calibration system.

MENU

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

INPUT ATT

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

T.EDIT

Use to memorize and name a station for recall using the **STATION +/-** buttons.

GUIDE

Displays the guides on a digital TV.

SUBTITLE

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

SLEEP

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

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 Component/Tuner control buttons

The main buttons (▶, □, etc.) are used to control a component after you have selected it using the **MULTI CONTROL** buttons. The tuner / DTV controls above these buttons can be accessed after you have selected the corresponding **MULTI CONTROL** button (**TUNER** or **TV / SAT** (when connected to DTV)).

RETURN

Returns to the last screen selected when using a digital TV tuner.

BAND

Switches between the tuner AM and FM bands.

DISPLAY

Use to switch the display between the station preset name and the frequency for the tuner. Also displays the different types of RDS information available.

CLASS

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

MPX

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

D.ACCESS

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

8 Number buttons

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

9 CHANNEL +/-

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

10 INPUT SELECT

Use to select the input source.

11 LED

This lights when a command is sent from the remote control.

12 SOURCE ⊖

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

13 DISC (ENTER)

The button's use depends on the component selected. It can be used to enter commands for TV or DTV, and can also be used to select a disc in a multi - CD player.

14 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.



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

(TV CONTROL) INPUT SELECT

Use select the TV function.

CHANNEL +/-

Use to select channels.

VOLUME +/-

Use to adjust the volume on your TV.

A

B

C

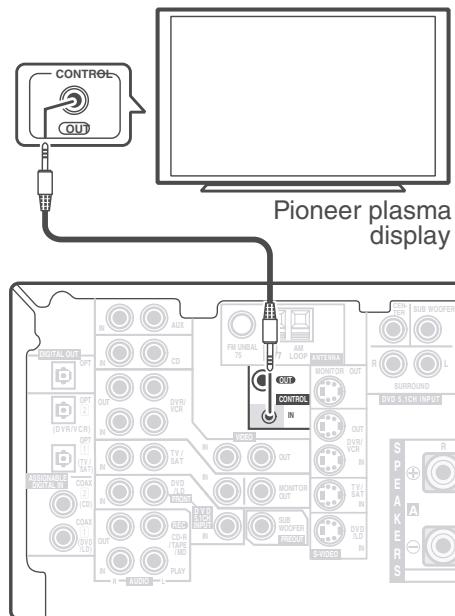
D

E

F

Using this receiver with a Pioneer plasma display

If you have a Pioneer plasma display (models PDP-504HDE and PDP-434HDE), 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.

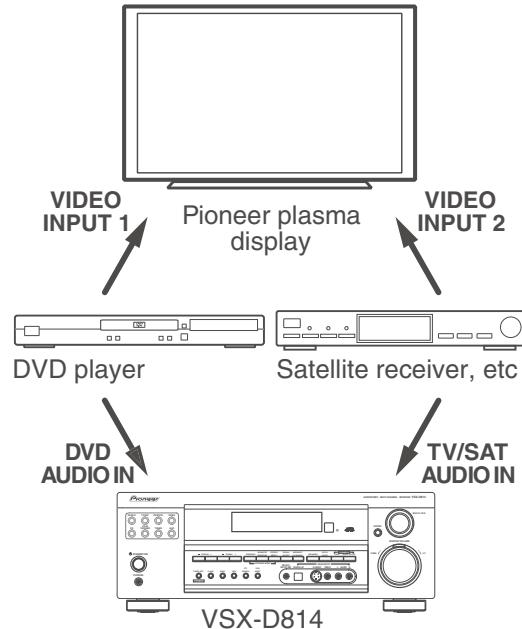


Important

- 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 *Using the SR+ mode with a Pioneer plasma display* 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)

