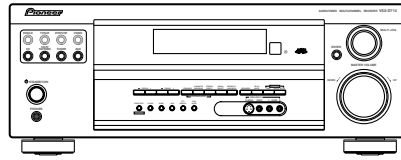


Service Manual



VSX-D714-K

ORDER NO.
RRV2928

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D714-K

VSX-D714-S

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

Model	Type	Power Requirement	Remarks
VSX-D714-K	MYXJI	AC220-230V	
VSX-D714-K	MYXJIFG	AC220-230V	
VSX-D714-S	MYXJI	AC220-230V	
VSX-D714-S	MYXJIFG	AC220-230V	



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

SAFETY INFORMATION



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

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



WARNING

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

Health & Safety Code Section 25249.6 – Proposition 65



NOTICE

(FOR CANADIAN MODEL ONLY)

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

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

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

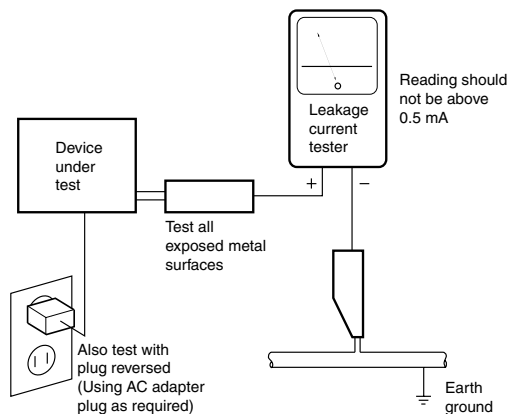
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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




AC Leakage Test

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

2. PRODUCT SAFETY NOTICE

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

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

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

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

[Important symbols for good services]

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

1. Product safety

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

2. Adjustments

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

3. Cleaning

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

4. Shipping mode and shipping screws

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

5. Lubricants, glues, and replacement parts

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

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VSX-D714-K

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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)
Center100 W (1kHz, 1.0%, 8 Ω)
Surround100W per channel
(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 k Ω

Frequency response

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

Output (Level/Impedance)

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

Tone control

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

Signal-to-Noise Ratio

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 \Rightarrow MONITOR5 Hz to 7 MHz ± 3 dB
Signal-to-Noise Ratio55 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 \Rightarrow MONITOR.5 Hz to 40 MHz ± 3 dB
Signal-to-Noise Ratio.55 dB

FM Tuner Section

Frequency Range87.5 MHz to 108 MHz
Usable Sensitivity Mono:13.2dBf, IHF
(1.3 μ V/ 75 Ω)
50 dB Quieting Sensitivity. Mono: 20.2 dB
Stereo: 38.6 dBf
Signal-to-Noise Ratio . Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
DistortionStereo: 0.5 % (1 kHz)
Alternate Channel Selectivity. 60dB
(400 kHz)
Stereo Separation.40 dB (1 kHz)
Frequency Response30Hz to 15 kHz
(± 1 dB)
Antenna Input (DIN)75 Ω unbalanced

AM Tuner Section

Frequency Range531 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.

Miscellaneous

Power Requirements . . AC 220-230 V, 50/60Hz
 Power Consumption
 VSX-D714 250 W

 In standby 0.5 W
 Dimensions . . .420 (W) x 158 (H) x 401 (D) mm
 Weight (without package)
 VSX-D714 10.0 kg

Furnished Parts

AM loop antenna 1
 FM wire antenna 1
 Dry cell batteries (AA size IEC R6) 2
 Remote control 1

Operating instructions 1

Note

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

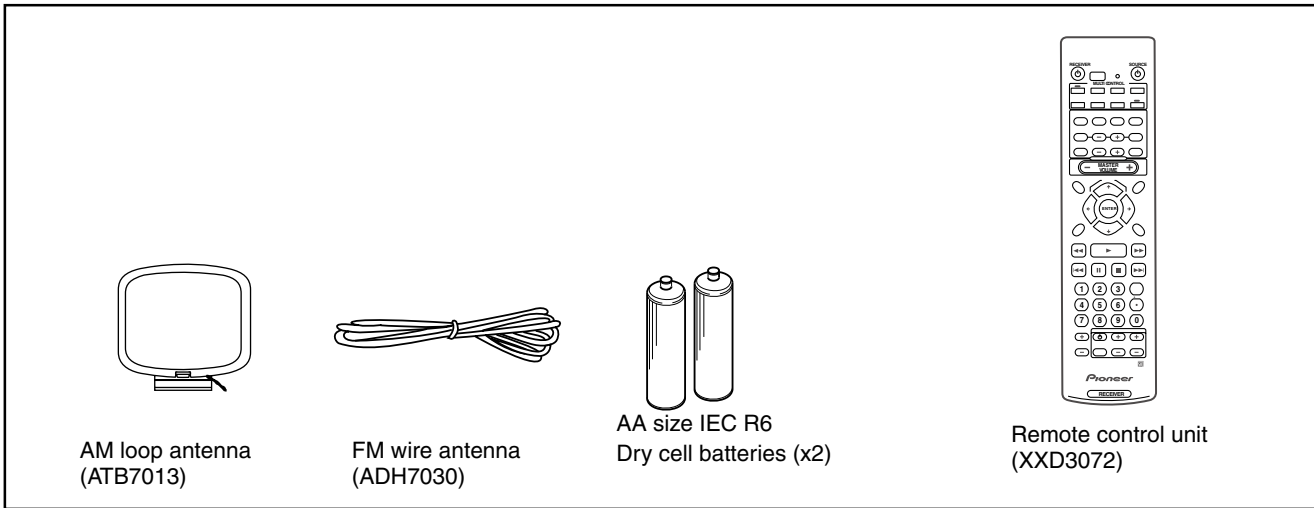
Cleaning the unit

- 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.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", "Surround EX", and the double-D symbol are trademarks of Dolby Laboratories.

Accessories



AM loop antenna
(ATB7013)

FM wire antenna
(ADH7030)

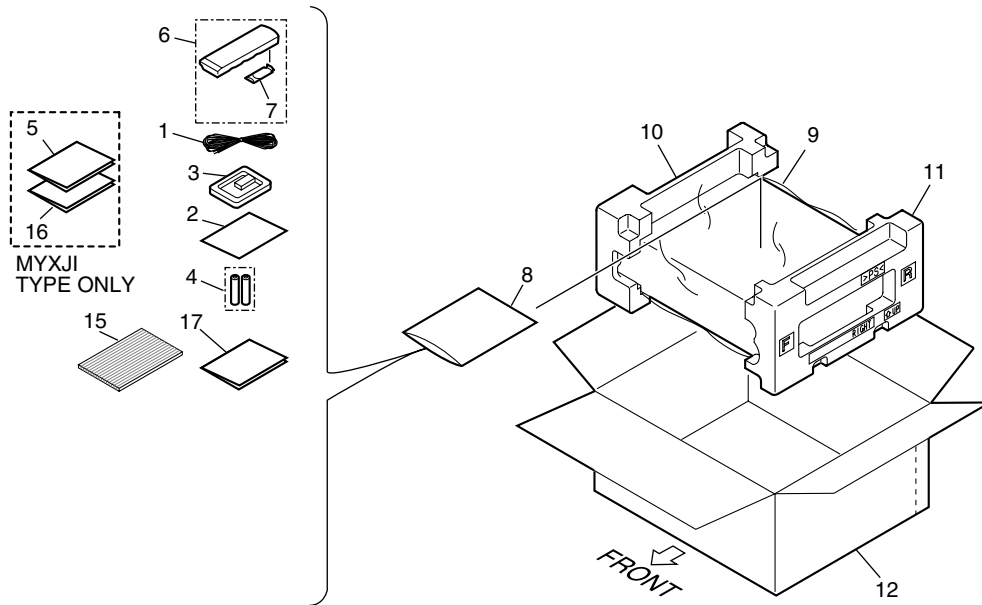
AA size IEC R6
Dry cell batteries (x2)

Remote control unit
(XXD3072)

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 \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Screws adjacent to ∇ mark on product are used for disassembly.
 - For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING



PACKING SECTION Parts List

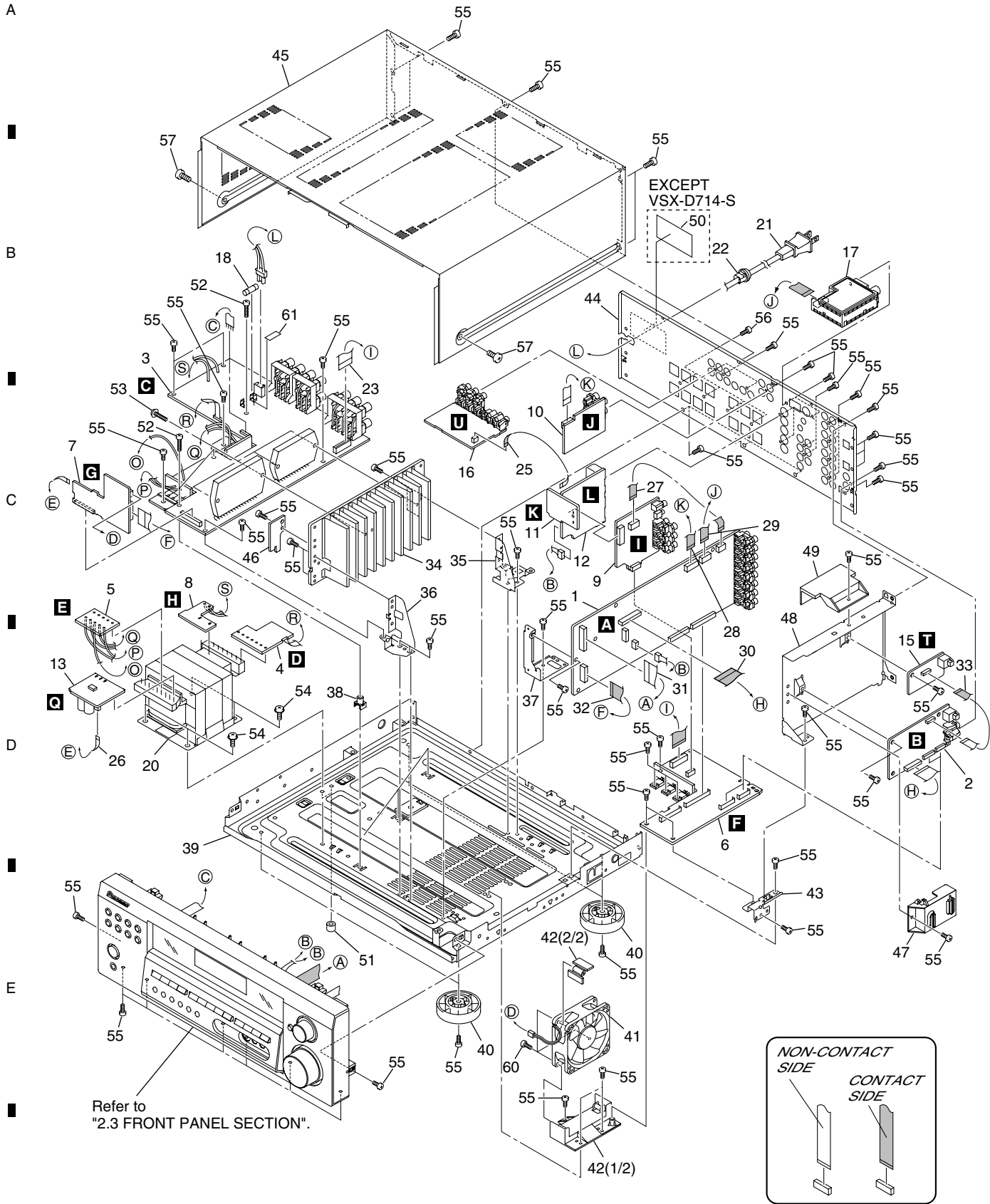
Mark No.	Description	Part No.	Mark No.	Description	Part No.
	1 FM wire antenna	ADH7030	11	Right Pad V1	XHA3142
NSP	2 Warranty Card	ARY7065	12	Packing Case	See Contrast table(2)
	3 AM loop antenna	ATB7013	13	•••••	
NSP	4 Alkaline Dry cell batteries (AA/R6)	VEM1031	14	•••••	
	5 Operating instructions (English/Italian)	See Contrast table(2)	NSP	15 Accessory Board R6	XHB3008
	6 Remote Control Unit	XXD3072	16	Operating instructions (Dutch/Spanish)	See Contrast table(2)
	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-D714-K/MYXJI, VSX-D714-K/MYXJIFG, VSX-D714-S/MYXJI and VSX-D714-S/MYXJIFG are constructed the same except for the following :

Mark	No.	Description	VSX-D714-K /MYXJI	VSX-D714-K /MYXJIFG	VSX-D714-S /MYXJI	VSX-D714-S /MYXJIFG
	5	Operating instructions (English/Italian)	XRE3079	Not used	XRE3079	Not used
	12	Packing Case	XHD3395	XHD3395	XHD3396	XHD3396
	16	Operating instructions (Dutch/Spanish)	XRC3117	Not used	XRC3117	Not used

2.2 EXTERIOR SECTION



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	XWK3120	36	H/S Angle Front	XNG3094
2	DSP Assy	AWX1082	37	PCB Angle R5	XNG3073
3	AMP & PRIMARY Assy	XWZ3788	38	PCB Mold	AMR2533
4	TRANS2 Assy	XWZ3809	NSP 39	Under Base R6	XNA3012
5	TRANS3 Assy	XWZ3813	40	Insulator	PNW2766
6	REGULATOR Assy	XWZ3798	41	DC Fan Motor	XXM3007
7	AMP INPUT Assy	XWZ3801	42	Fan Holder R6	XMR3066
8	TRANS1 Assy	XWZ3806	43	REG Support R6	XNG3093
9	VIDEO Assy	XWZ3752	44	Rear Panel 714K	XNC3248
10	5.1CH Assy	XWZ3760	45	Bonnet	See Contrast table(2)
11	B TO B Assy	XWZ3781	NSP 46	HOLDER Assy	XWZ3820
12	S. VIDEO Assy	XWZ3776	47	FFC Holder R6	XMR3072
13	TRANS4 Assy	XWZ3778	48	Shield A R6	XNG3068
14	•••••		49	FFC Cover R6	XMR3060
15	DIGITAL IN Assy	XWZ3772	NSP 50	N Label	See Contrast table(2)
16	COMPONENT Assy	XWZ3777	NSP 51	Spacer	AEB7092
17	FM/AM TUNER UNIT	AXX7170	52	Screw	BBZ30P200FTC
⚠ 18	FU1 Fuse (T2.5A)	REK1026	53	Screw 3x23	XBA3012
19	•••••		54	Screw	FBT40P080FNI
⚠ 20	T1 Power Transformer	XTS3079	55	Screw	BBZ30P080FTC
⚠ 21	AC Power Cord	VDG1077	56	Screw	BBT30P100FCC
22	Cord Stopper	CM-22B	57	Screw	See Contrast table(2)
23	J36 23P F.F.C/30V	XDD3102	58	•••••	
24	•••••		NSP 59	BINDER Assy	XWZ3817
25	J38 5P F.F.C/30V	XDD3104	60	Screw	BPZ30P120FTC
26	J22 3P F.F.C/30V	XDD3107	61	Fuse Card	AAX7277
27	J33 11P F.F.C/30V	XDD3150			
28	J48 9P F.F.C/30V	XDD3151			
29	J34 13P 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	XNH3027			
35	H/S Angle Rear	XNG3095			

(2) CONTRAST TABLE

VSX-D714-K/MYXJI, VSX-D714-K/MYXJIFG, VSX-D714-S/MYXJI and VSX-D714-S/MYXJIFG are constructed the same except for the following :

Mark	No.	Description	VSX-D714-K /MYXJI	VSX-D714-K /MYXJIFG	VSX-D714-S /MYXJI	VSX-D714-S /MYXJIFG
NSP	45	Bonnet K V1	XZN3148	XZN3148	Not used	Not used
	45	Bonnet S V1	Not used	Not used	XZN3149	XZN3149
	50	N Label 714K/MY	XAL3198	XAL3198	Not used	Not used
	57	Screw	FBT40P080FZK	FBT40P080FZK	FBT40P080FNI	FBT40P080FNI

2.3 FRONT PANEL SECTION

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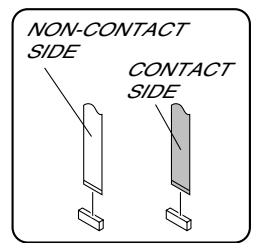
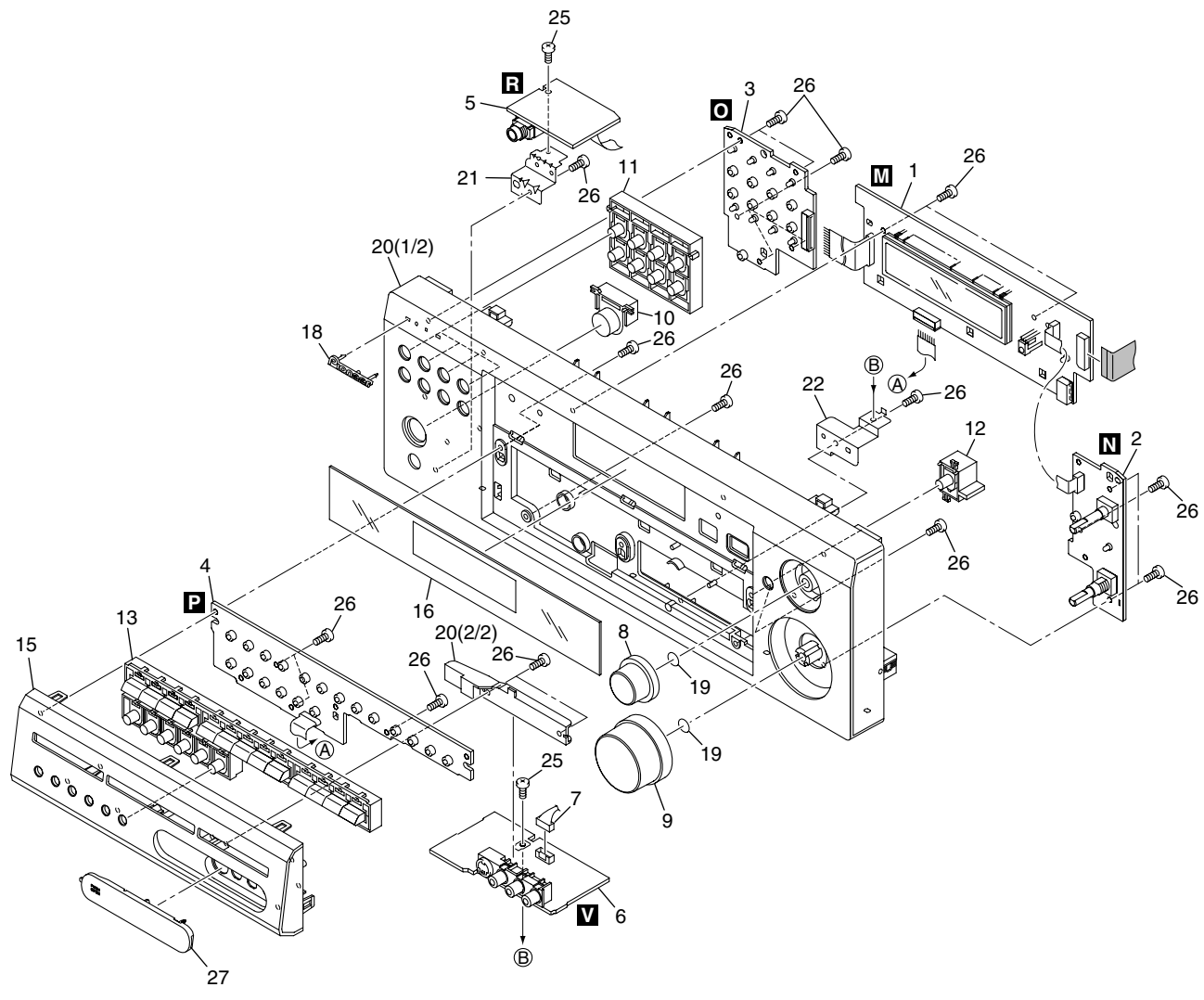
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FRONT PANEL SECTION Parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	FRONT DISPLAY ASSY	XWZ3756	17	•••••	
2	R. ENCODER Assy	XWZ3766	18	Pioneer Badge B	See Contrast table(2)
3	P. SW & FUNC. KEY Assy	XWZ3763	NSP 19	C Ring DIM 8.1	XBH3016
4	FRONT KEY Assy	XWZ3758	20	FRT Panel	See Contrast table(2)
5	H.P. Assy	XWZ3768			
			21	Earth Plate R5 HP	XNG3066
6	FRONT VIDEO Assy	XWZ3769	22	Earth Plate FI V1	XNG3119
7	J29 8P Shield Cable	XDX3022	23	•••••	
8	JOG Knob	See Contrast table(2)	24	•••••	
9	VOL Knob	See Contrast table(2)	25	Screw	BBZ30P080FTC
10	Standby BTN V1	See Contrast table(2)			
			26	Screw	BPZ30P100FTC
11	FUNC BTN V1	See Contrast table(2)	27	Input Cover V1	See Contrast table(2)
12	Enter BTN V1	See Contrast table(2)			
13	Sub BTN V1	See Contrast table(2)			
14	•••••				
15	Sub Panel	See Contrast table(2)			
16	D Panel MCACC V1	XAK3426			

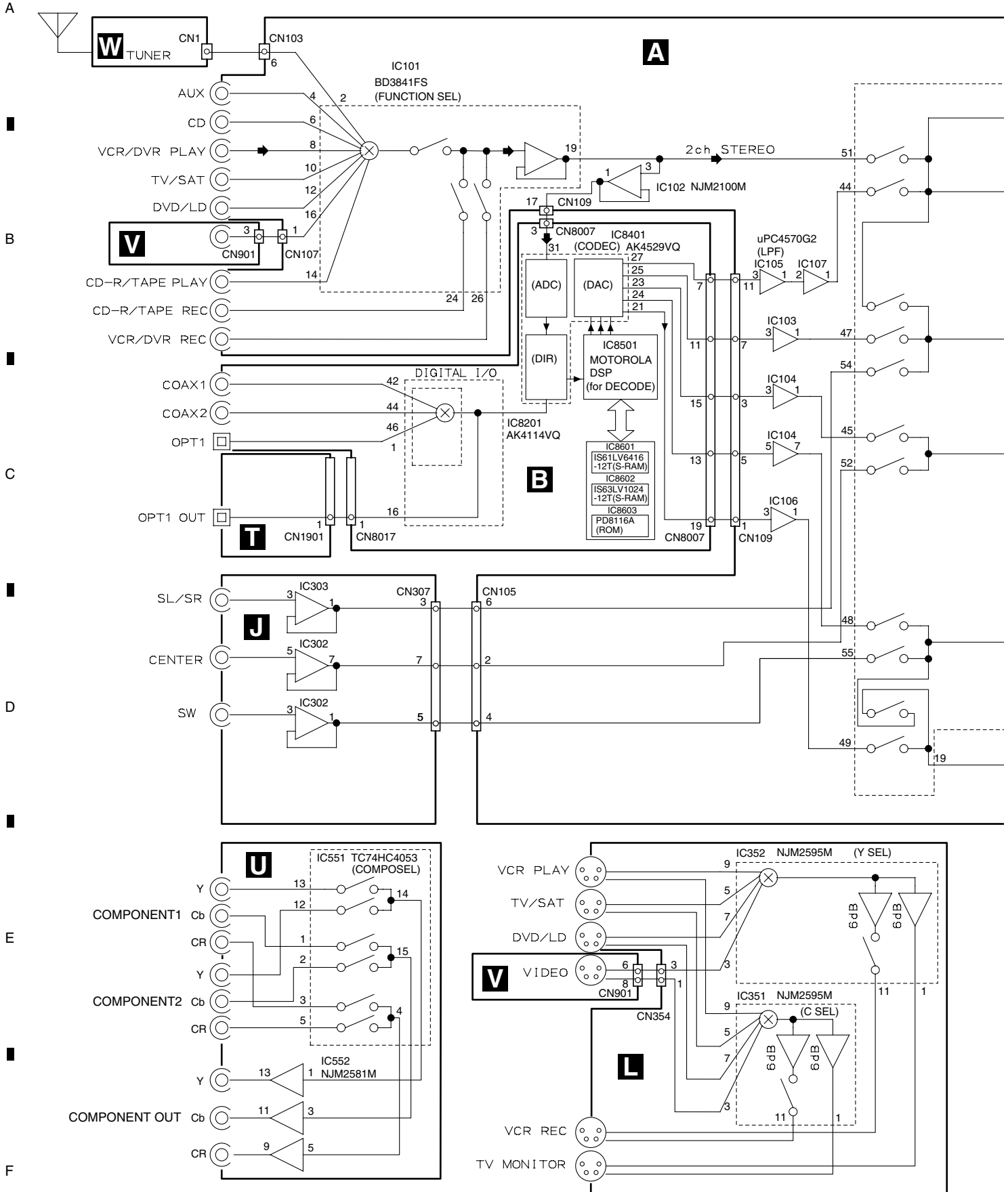
(2) CONTRAST TABLE

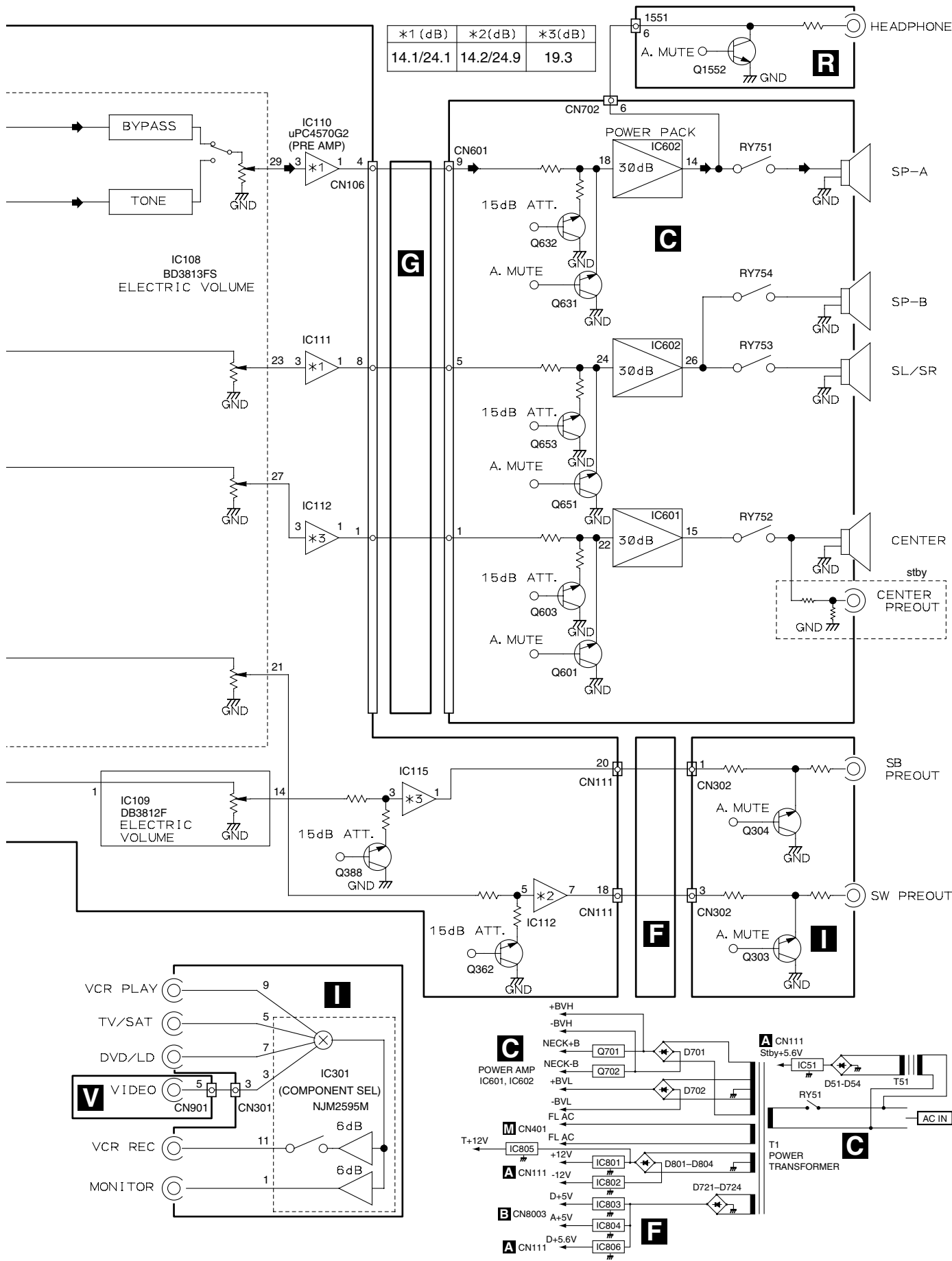
VSX-D714-K/MYXJI, VSX-D714-K/MYXJIFG, VSX-D714-S/MYXJI and VSX-D714-S/MYXJIFG are constructed the same except for the following :

<u>Mark</u>	<u>No.</u>	<u>Description</u>	<u>VSX-D714-K /MYXJI</u>	<u>VSX-D714-K /MYXJIFG</u>	<u>VSX-D714-S /MYXJI</u>	<u>VSX-D714-S /MYXJIFG</u>
	8	JOG Knob V1K	XAB3038	XAB3038	Not used	Not used
	8	JOG Knob V1S	Not used	Not used	XAB3042	XAB3042
	9	VOL Knob V1K	XAB3039	XAB3039	Not used	Not used
	9	VOL Knob V1S	Not used	Not used	XAB3043	XAB3043
	10	Standby BTN V1K	XAD3173	XAD3173	Not used	Not used
	10	Standby BTN V1S	Not used	Not used	XAD3178	XAD3178
	11	FUNC BTN V1K	XAD3174	XAD3174	Not used	Not used
	11	FUNC BTN V1S	Not used	Not used	XAD3180	XAD3180
	12	Enter BTN V1K	XAD3175	XAD3175	Not used	Not used
	12	Enter BTN V1S	Not used	Not used	XAD3181	XAD3181
	13	Sub BTN V1K	XAD3176	XAD3176	Not used	Not used
	13	Sub BTN V1S	Not used	Not used	XAD3177	XAD3177
	15	Sub Panel 814K	XAK3439	XAK3439	Not used	Not used
	15	Sub Panel 814S	Not used	Not used	XAK3431	XAK3431
	18	Pioneer Badge B	XAM3006	XAM3006	VAM1129	VAM1129
	20	FRT Panel 714K/MY	XMB3139	XMB3139	Not used	Not used
	20	FRT Panel 714S/MY	Not used	Not used	XMB3142	XMB3142
	27	Input Cover V1K	XAK3429	XAK3429	Not used	Not used
	27	Input Cover V1S	Not used	Not used	XAK3433	XAK3433

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM





3.2 OVERALL WIRING CONNECTION DIAGRAM

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404	51063-0705
511	51063-0705
CN511	None
J42	D15A07-075-2651

R. ENCODER ASSY (XWZ3766)

V FRONT VIDEO ASSY (XWZ3769)

M FRONT DISPLAY ASSY (XWZ3756)

P FRONT KEY ASSY (XWZ3758)

G AMP INPUT ASSY (XWZ3801)

DSP ASSY (AWX1082)

MAIN ASSY (XWK3120)

S. VIDEO ASSY (XWZ3776)

B TO B ASSY (XWZ3781)

VIDEO ASSY (XWZ3752)

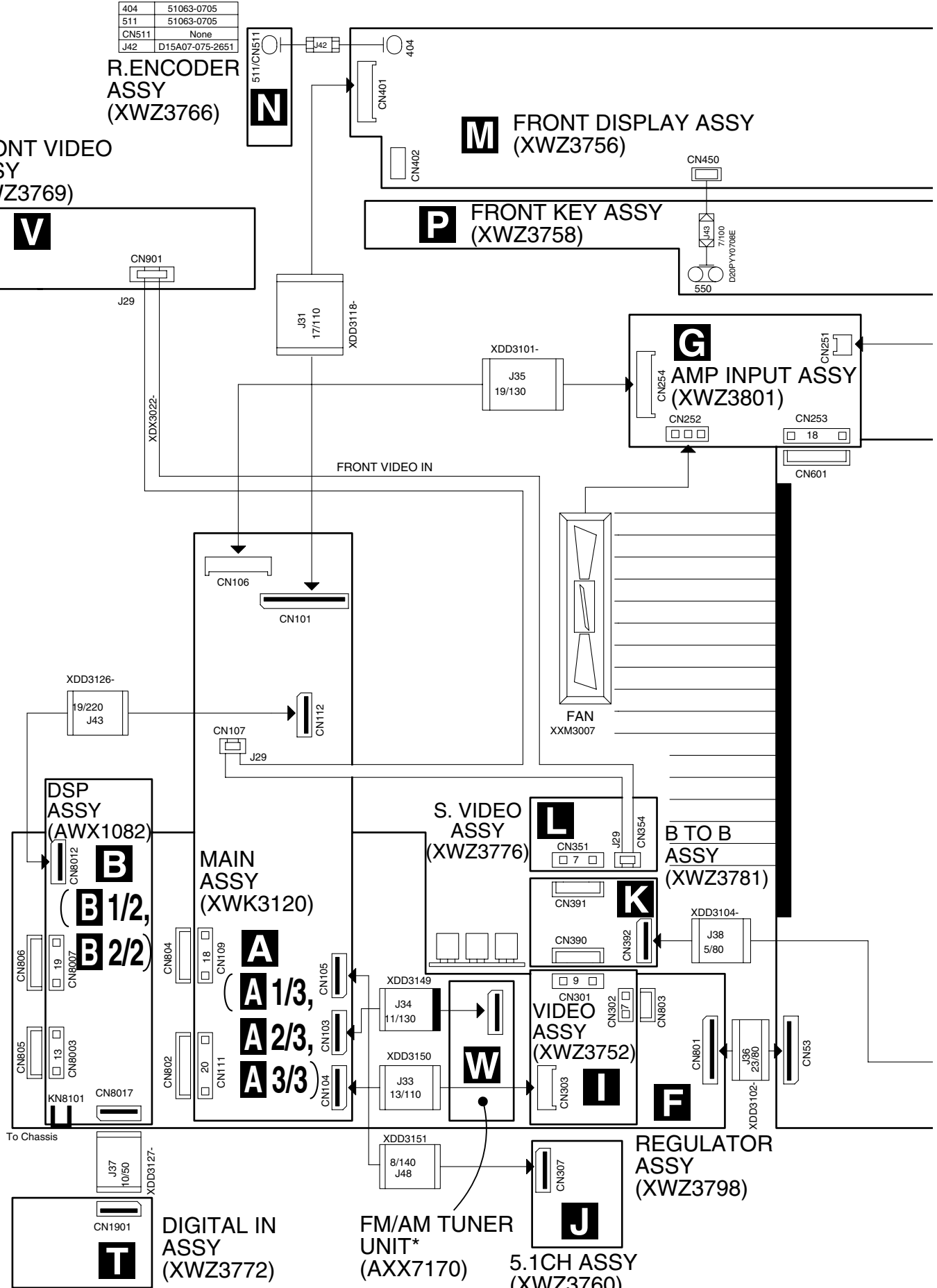
REGULATOR ASSY (XWZ3798)

T DIGITAL IN ASSY (XWZ3772)

FM/AM TUNER UNIT* (AXX7170)

5.1CH ASSY (XWZ3760)

* No schematic diagram



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3.3 MAIN ASSY (1/3)

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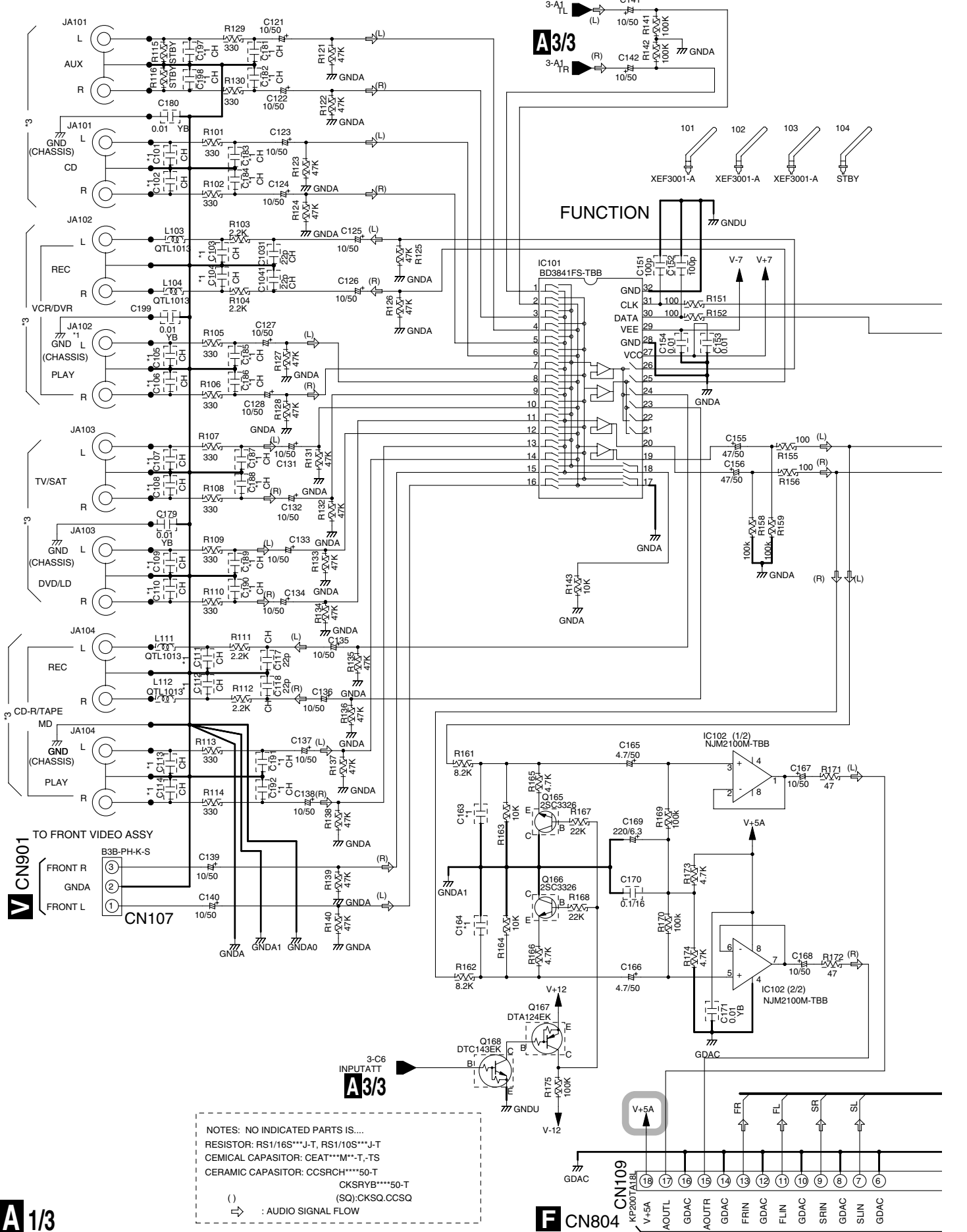
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NOTES: NO INDICATED PARTS IS...
 RESISTOR: RS1/16S***J-T, RS1/10S***J-T
 CEMICAL CAPASITOR: CEAT***M***T,-TS
 CERAMIC CAPASITOR: CCSRCH***50-T
 CKSRYB***50-T
 (SQ):CKSQ.CCSQ
 () : AUDIO SIGNAL FLOW

A 1/3

F CN804

VSX-D714-K

1

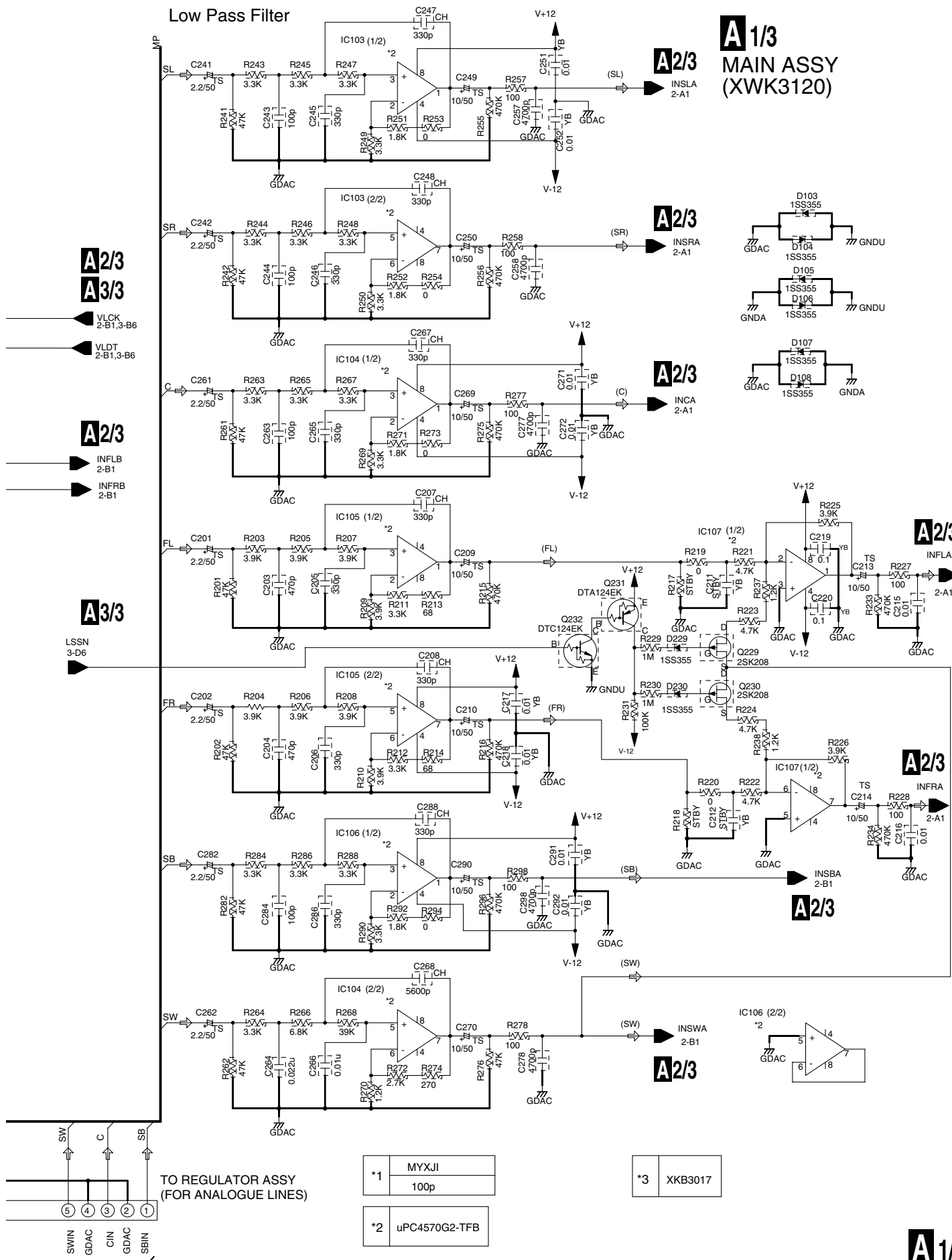
2

3

4

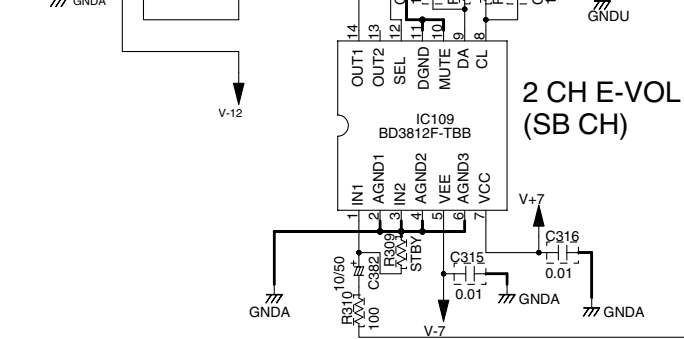
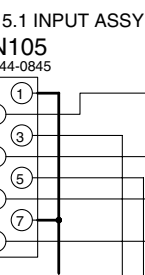
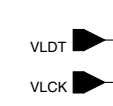
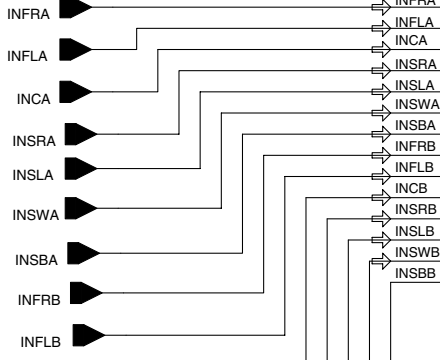
Low Pass Filter

A 1/3 MAIN ASSY (XWK3120)



3.4 MAIN ASSY (2/3)

A 2/3 MAIN ASSY (XWK3120)



NOTE

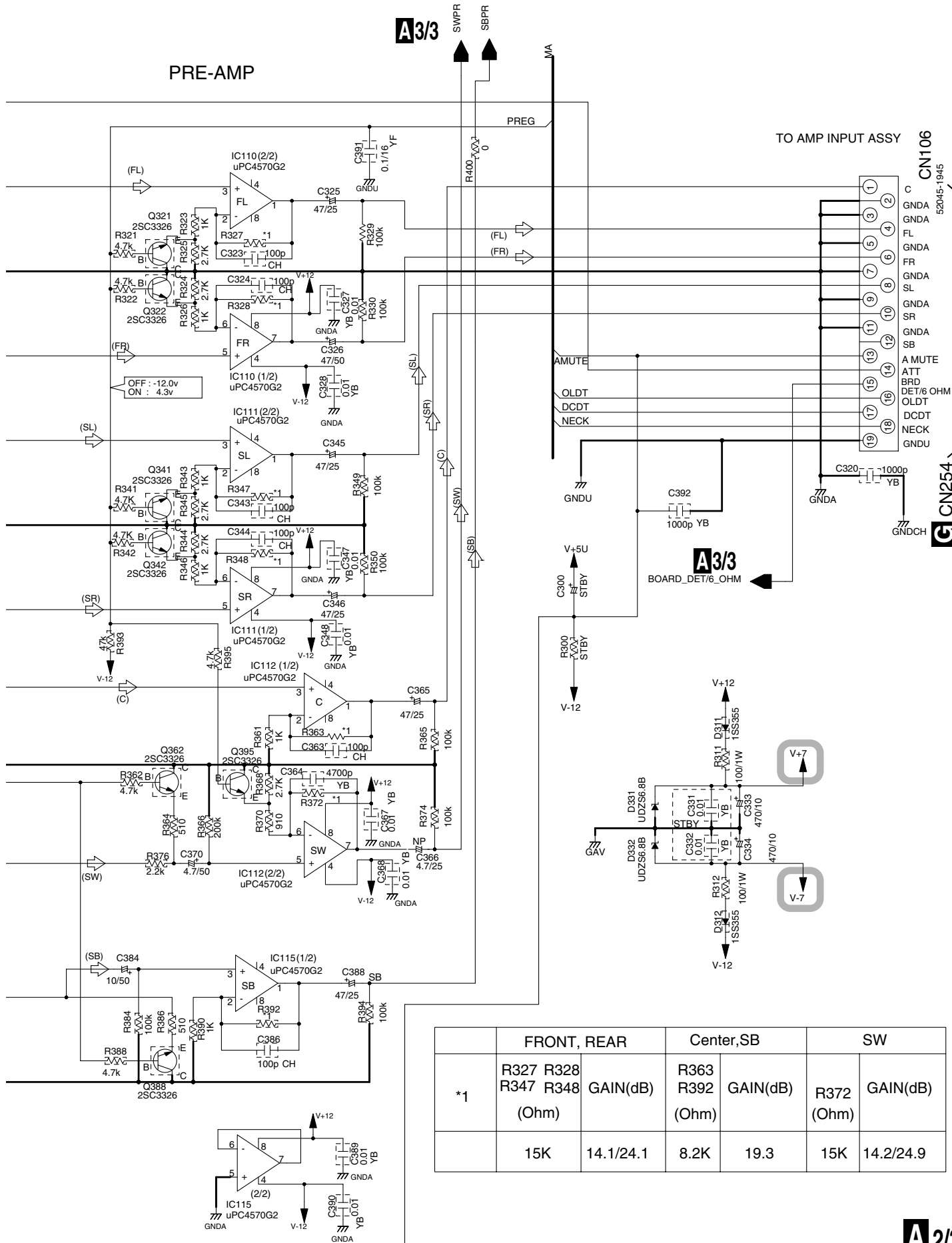
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ± 5% unless otherwise noted.

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

⇒ : AUDIO SIGNAL FLOW

A3/3

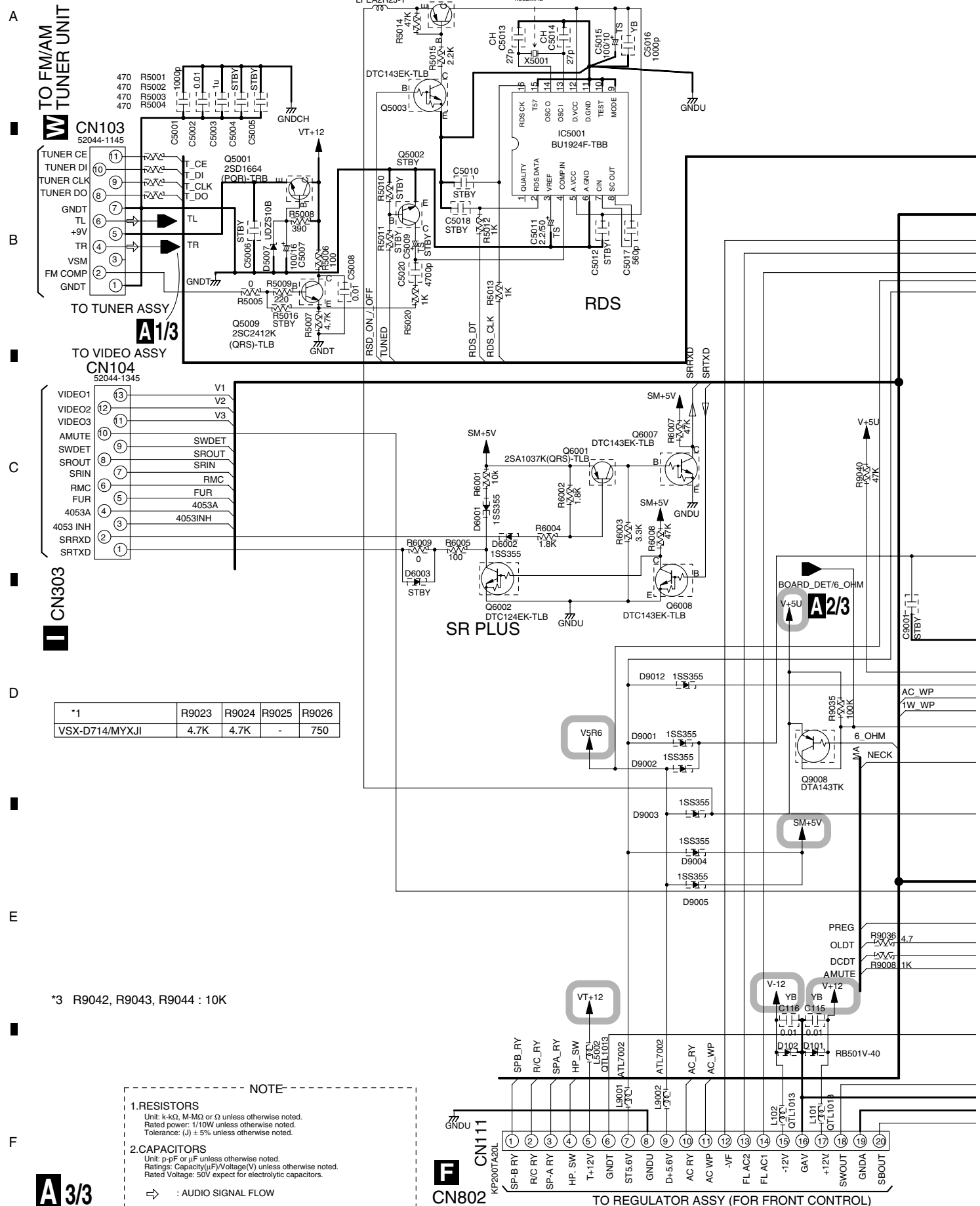
PRE-AMP



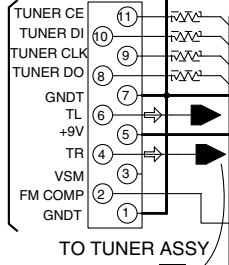
	FRONT, REAR		Center, SB		SW	
*1	R327 R347	R328 R348	R363 R392	GAIN(dB) GAIN(dB)	R372	GAIN(dB)
	(Ohm)		(Ohm)		(Ohm)	
	15K	14.1/24.1	8.2K	19.3	15K	14.2/24.9

A 2/3

3.5 MAIN ASSY (3/3)



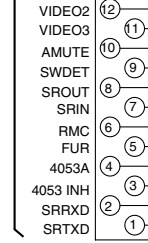
W CN103
52044-1145



A1/3

TO VIDEO ASSY

CN104
52044-1345



CN303

A2/3

A3/3

*1	R9023	R9024	R9025	R9026
VSX-D714/MYXJI	4.7K	4.7K	-	750

*3 R9042, R9043, R9044 : 10K

NOTE

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

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

⇒ : AUDIO SIGNAL FLOW

A3/3

F CN802
KP2007A20L

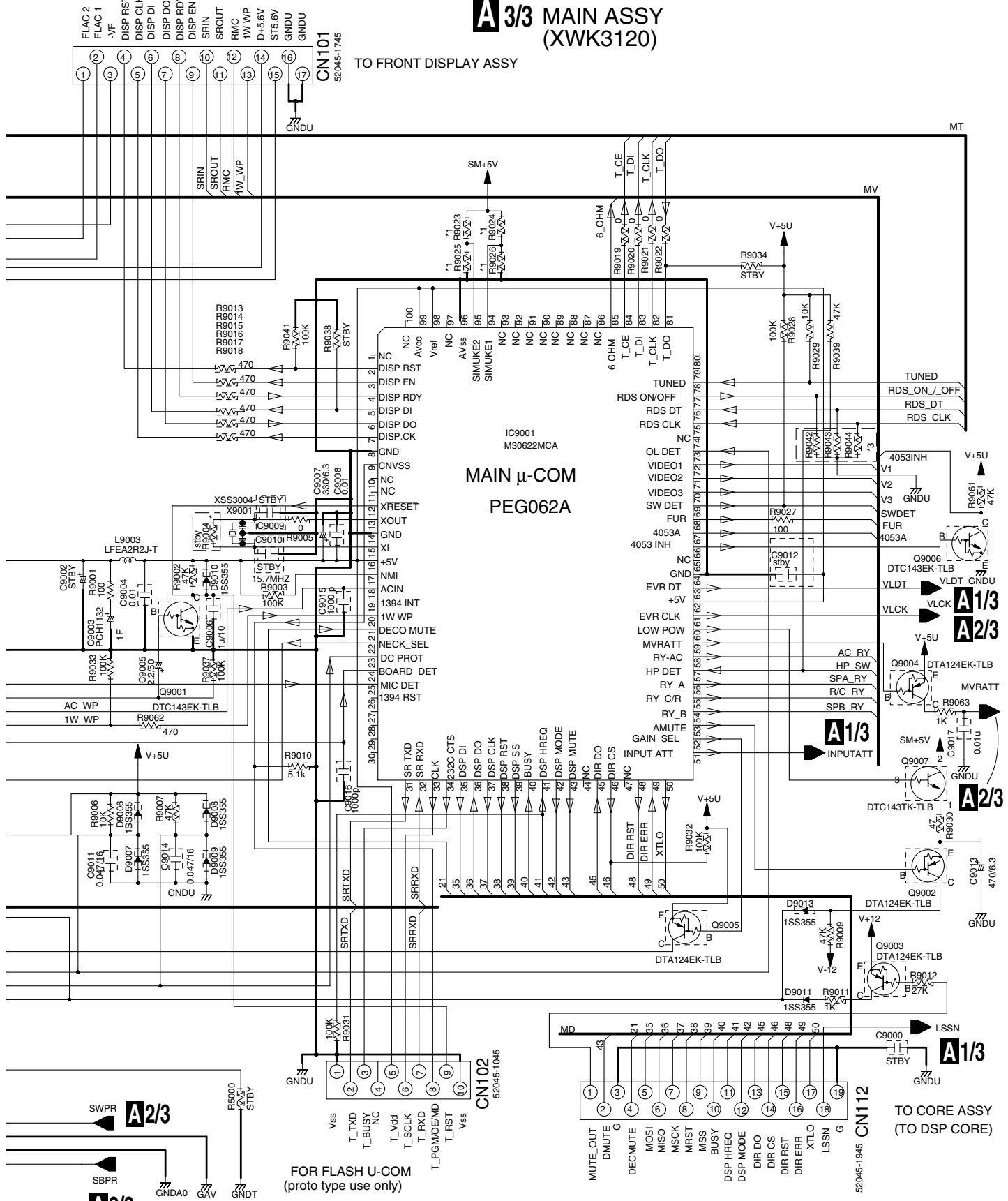
VSX-D714-K

TO REGULATOR ASSY (FOR FRONT CONTROL)

M CN401

A/3 MAIN ASSY (XWK3120)

TO FRONT DISPLAY ASSY



A
B
C
D
E
F

A/2/3
A/2/3
A/2/3

A/1/3
A/2/3
A/1/3

B/2/2 CN8012

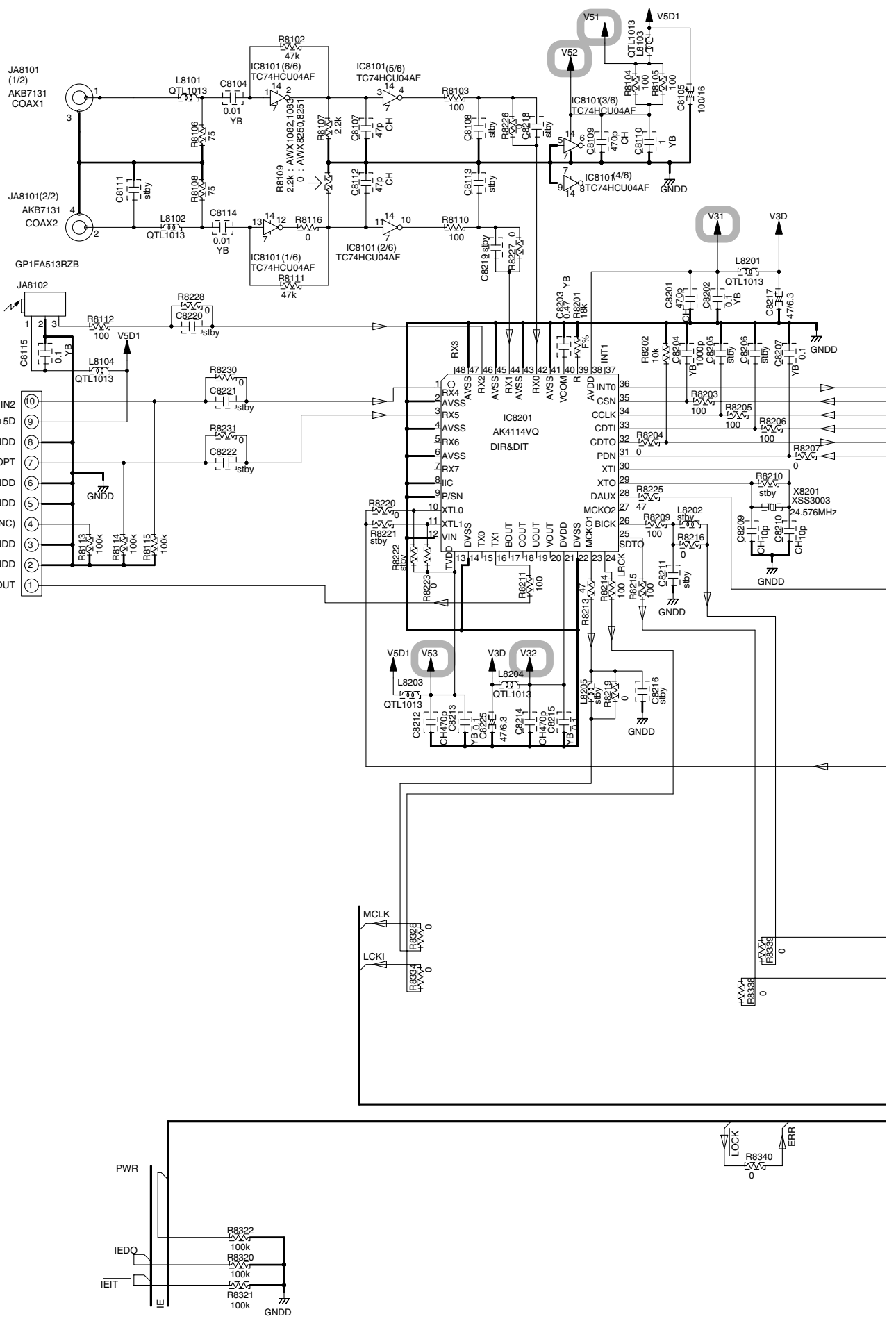
A/3/3

3.6 DSP ASSY (1/2)

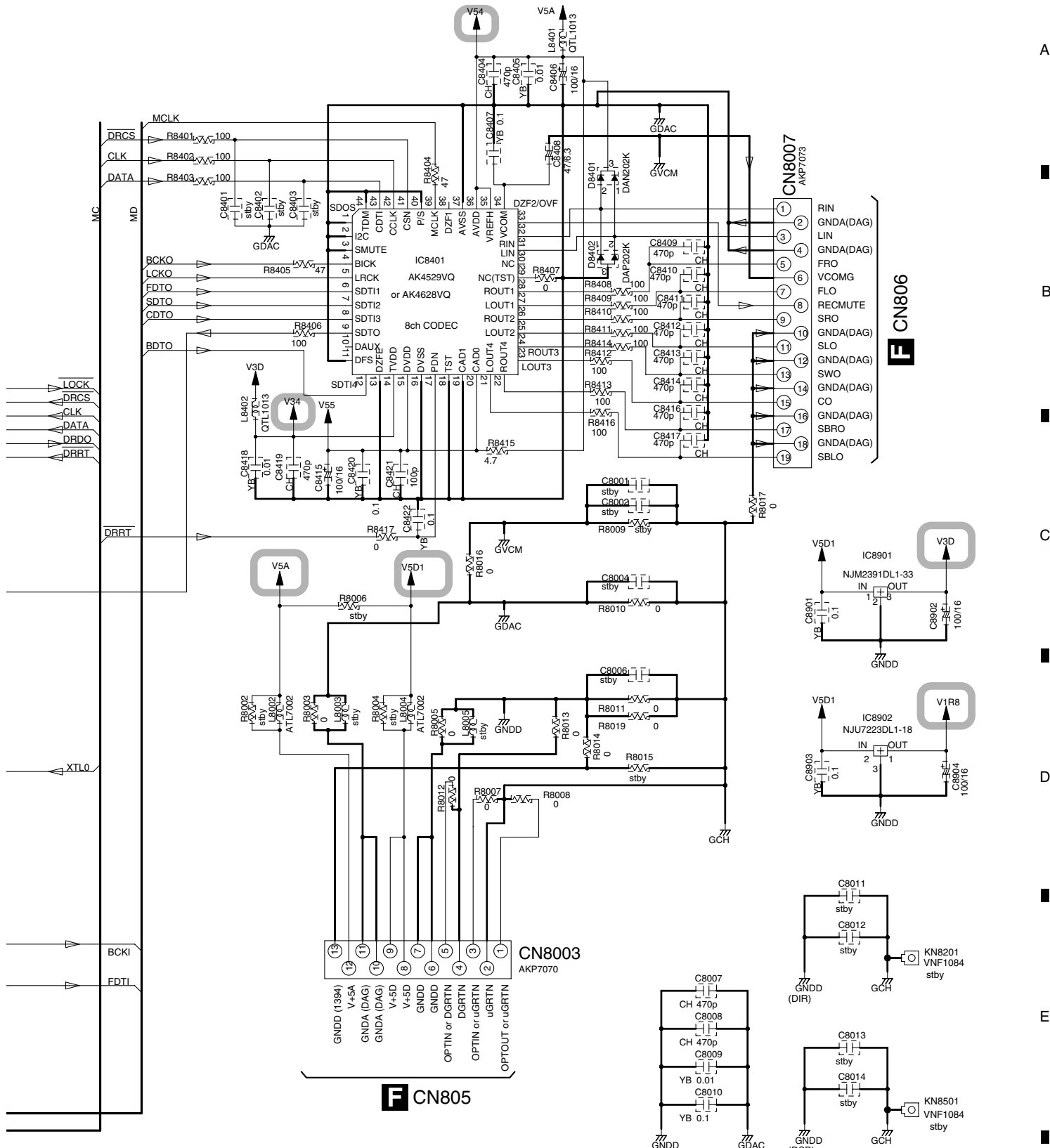
A
B
C
D
E
F

CN1901

CN8017
V+5D
VKN1414



B 1/2



NOTES:

NO INDICATED PARTS IS...

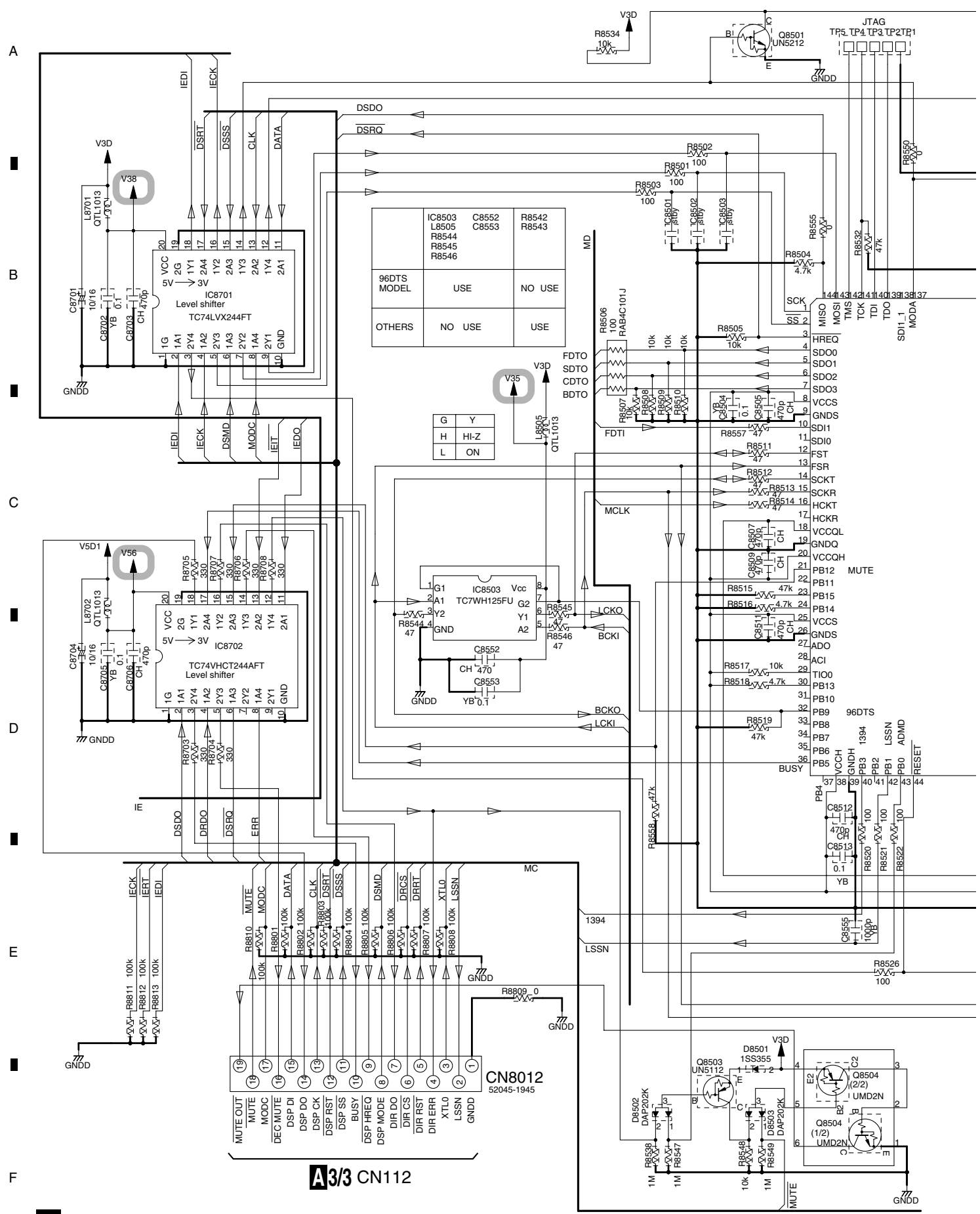
CCSRCH****50-T
 CKSRYB****50-T
 CKSRYB333K16-T
 CKSRYB104K16-T
 CKSRYB105K6R3-T
 CEV***M**-T
 RS1/16S***J-T
 UNLESS OTHERWISE NOTED

B 1/2 DSP ASSY (AWX1082)

VSX-D714-K

B 1/2

3.7 DSP ASSY (2/2)



IC8503	C8552	R8542
L8505	C8553	R8543
R8544		
R8545		
R8546		
96DTS MODEL	USE	NO USE
OTHERS	NO USE	USE

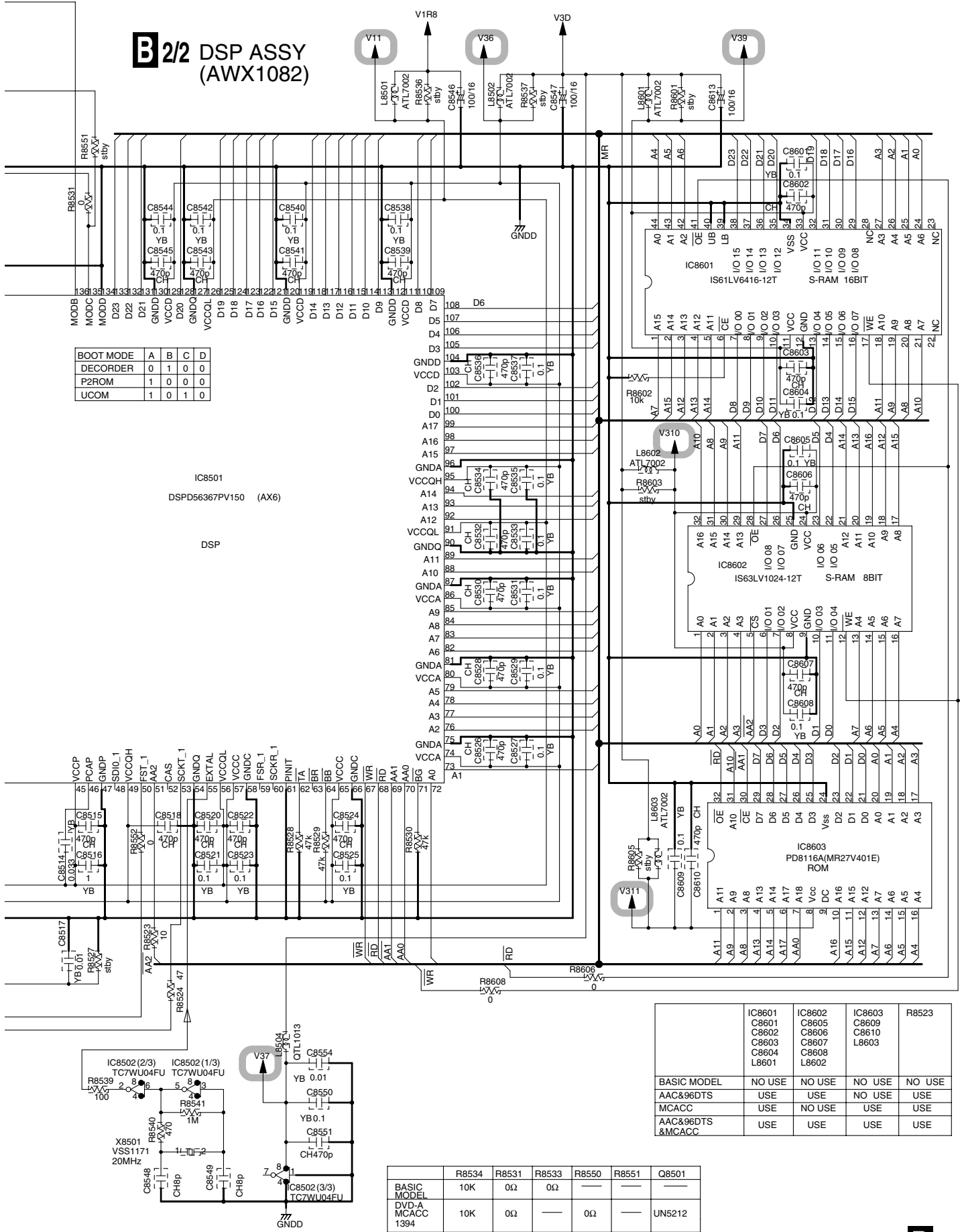
G	Y
H	HI-Z
L	ON

A3/3 CN112

B 2/2

VSX-D714-K

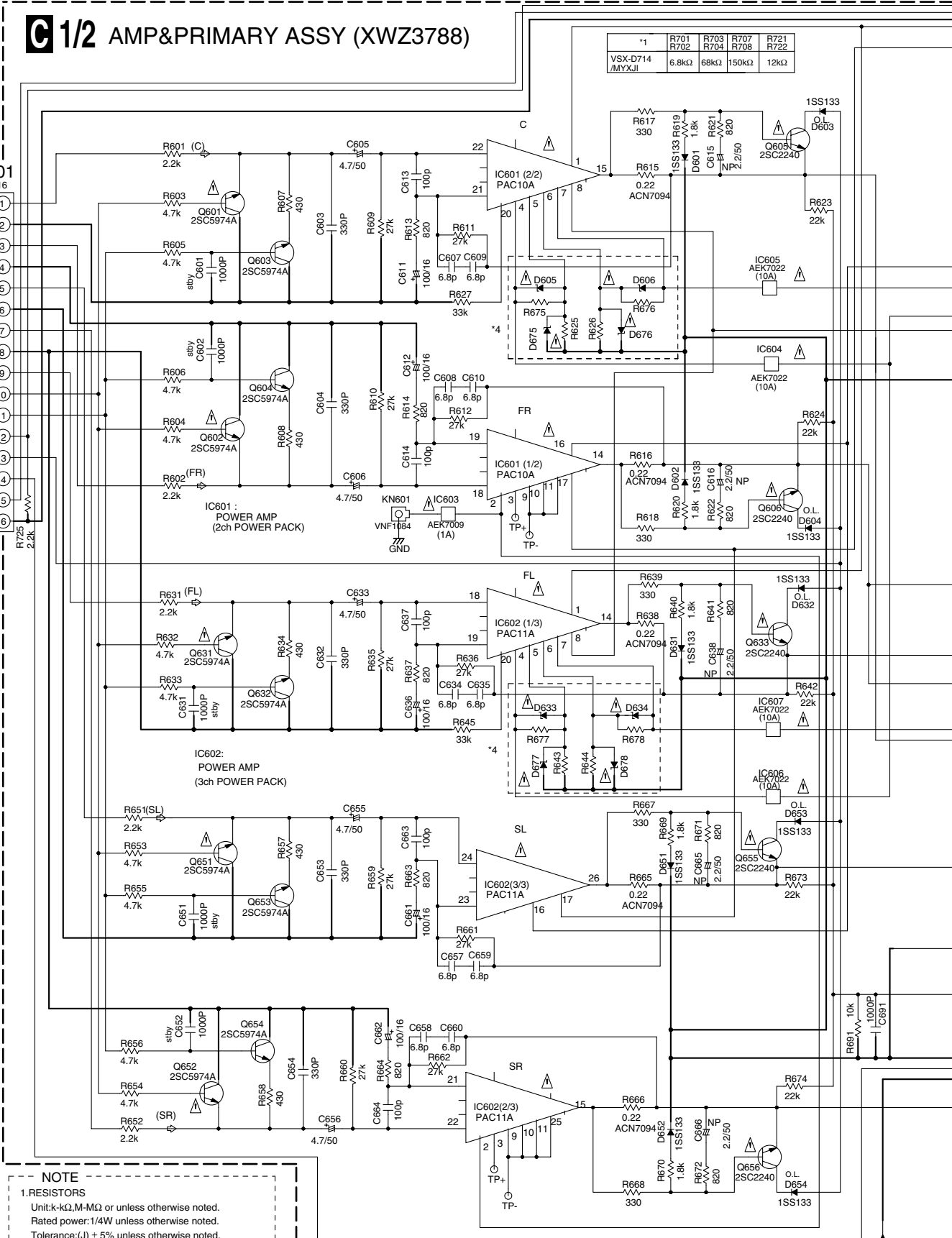
B 2/2 DSP ASSY (AWX1082)



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

C 1/2 AMP&PRIMARY ASSY (XWZ3788)

A
B
C
D
E
F



NOTE

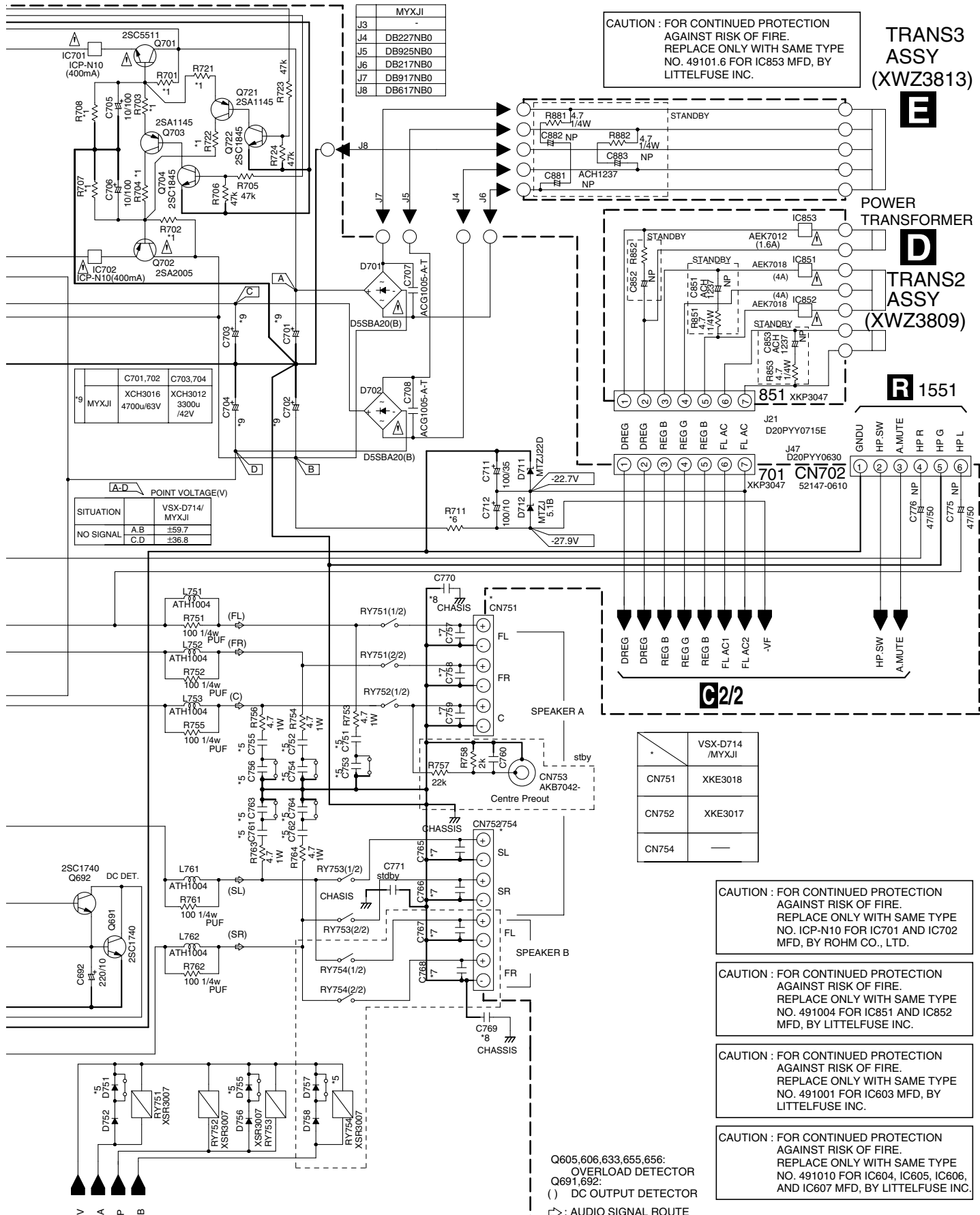
- RESISTORS**
Unit:k-kΩ,M-MΩ or unless otherwise noted.
Rated power:1/4W unless otherwise noted.
Tolerance:(J) ± 5% unless otherwise noted.
- CAPACITORS**
Unit: p-pF or μF unless otherwise noted.
Ratings:Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage:50V except for electrolytic capacitors.
- DIODES**
Indicated in 1SS133-T

*4	D675,676,677,678	VSX-D714/MYXJI
	D605,606,633,634	MTZJ8.2A
	R675,676,677,678	6.8kΩ
	R625,626,643,644	6.8kΩ
*5	C751,752,755,761,762	0.22 BA
	C753,754,756,763,764	0.22 BA
	D751,755,757	1SS133-T

*6	VSX-D714/MYXJI	R711
		3.3k/2W
*7	VSX-D714/MYXJI	COMBA 472J50-T
*8	VSX-D714/MYXJI	CKPUYB 102K50



VSX-D714-K



J3	MYXJI
J4	DB227NB0
J5	DB925NB0
J6	DB217NB0
J7	DB917NB0
J8	DB617NB0

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 49101.6 FOR IC853 MFD, BY LITTELFUSE INC.

TRANS3 ASSY (XWZ3813)

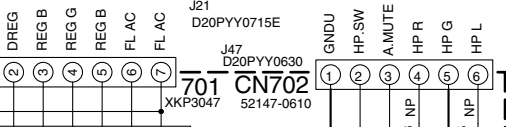
POWER TRANSFORMER

TRANS2 ASSY (XWZ3809)

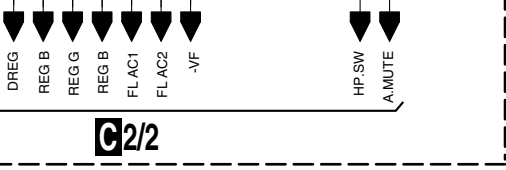
R 1551

C701,702	XCH3016	XCH3012
MYXJI	4700u/63V	3300u /42V

A-D POINT VOLTAGE(V)	
SITUATION	VSX-D714/ MYXJI
NO SIGNAL	A.B ±59.7
	C.D ±36.8



J21	D20PY0715E
J47	D20PY0630
J701	CN702
	XKP3047
	52147-0610



	VSX-D714 /MYXJI
CN751	XKE3018
CN752	XKE3017
CN754	—

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N10 FOR IC701 AND IC702 MFD, BY ROHM CO., LTD.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491004 FOR IC851 AND IC852 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491001 FOR IC603 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491010 FOR IC604, IC605, IC606, AND IC607 MFD, BY LITTELFUSE INC.

Q605,606,633,655,656: OVERLOAD DETECTOR Q691,692: () DC OUTPUT DETECTOR () : AUDIO SIGNAL ROUTE

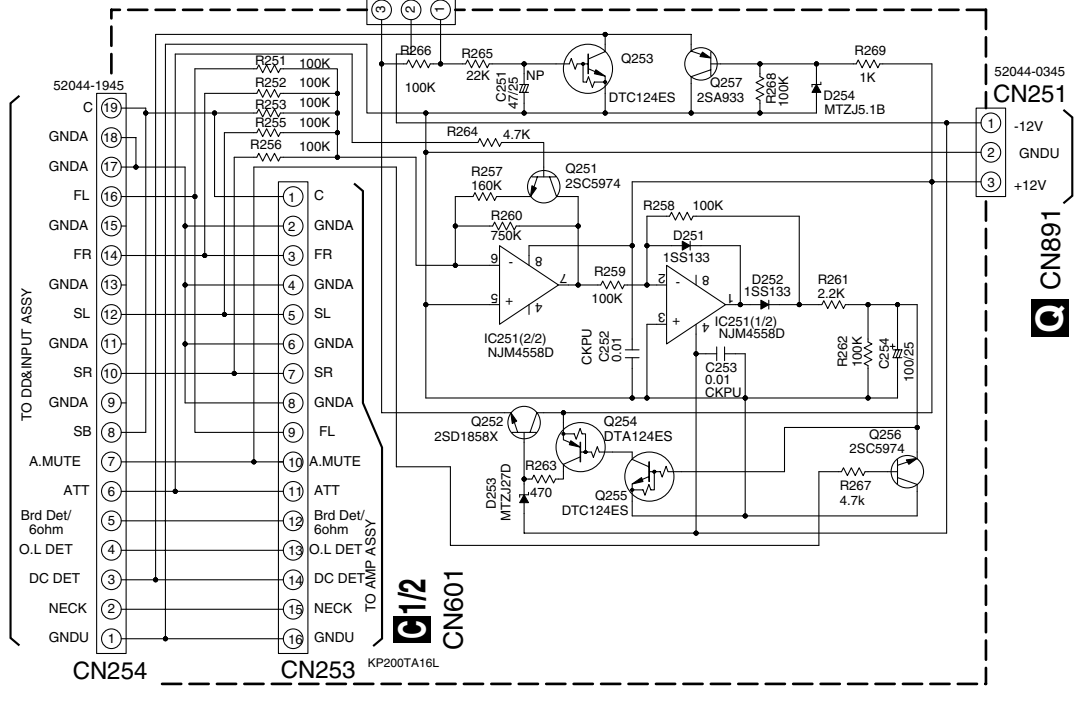
• NOTE FOR FUSE REPLACEMENT
CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

C 1/2 D E

FAN MOTOR

G AMP INPUT ASSY (XWZ3801)

A 2/3 CN106



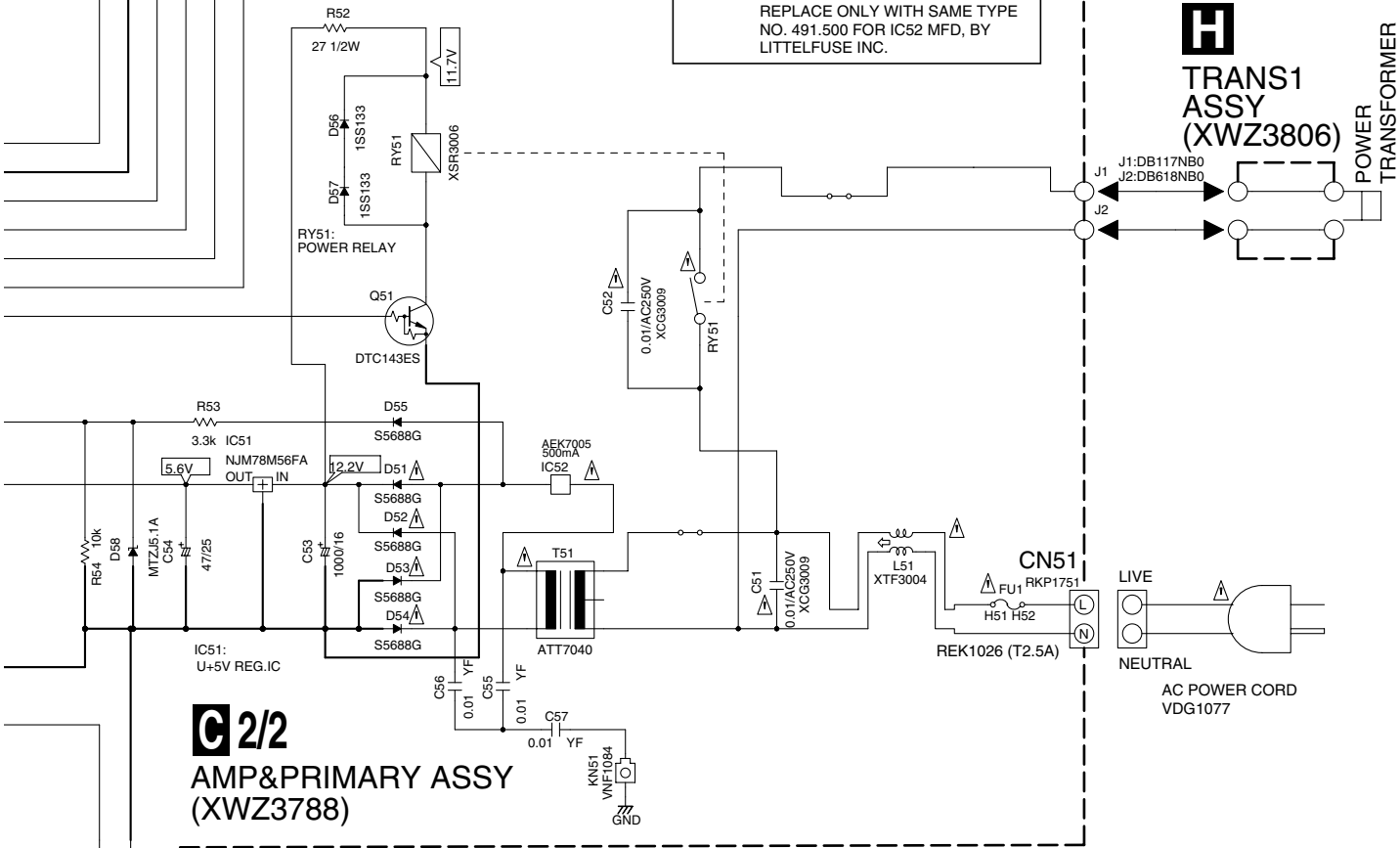
C1/2



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

H TRANS1 ASSY (XWZ3806)

POWER TRANSFORMER



C 2/2 AMP & PRIMARY ASSY (XWZ3788)

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

C 2/2 G H

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

1 2 3 4

A

B

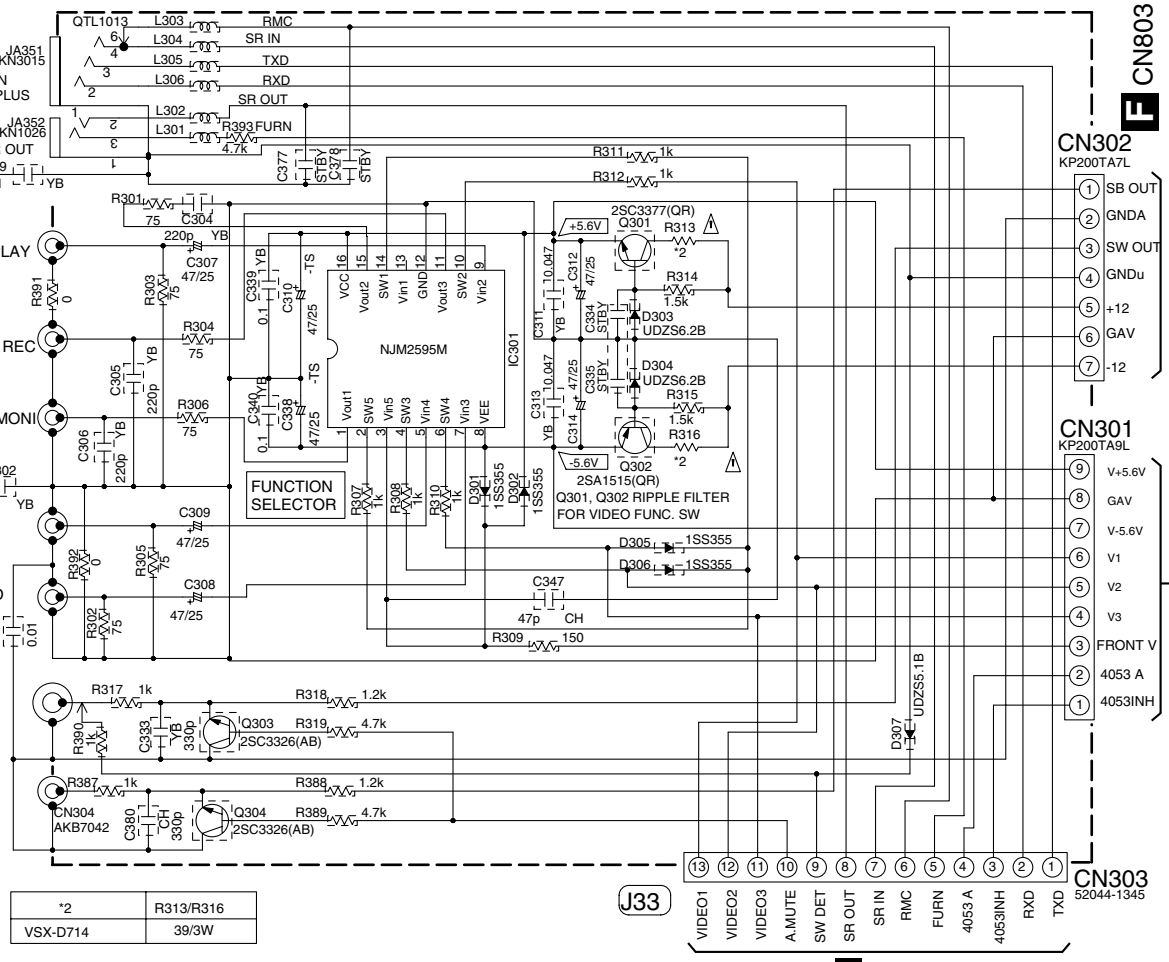
C

D

E

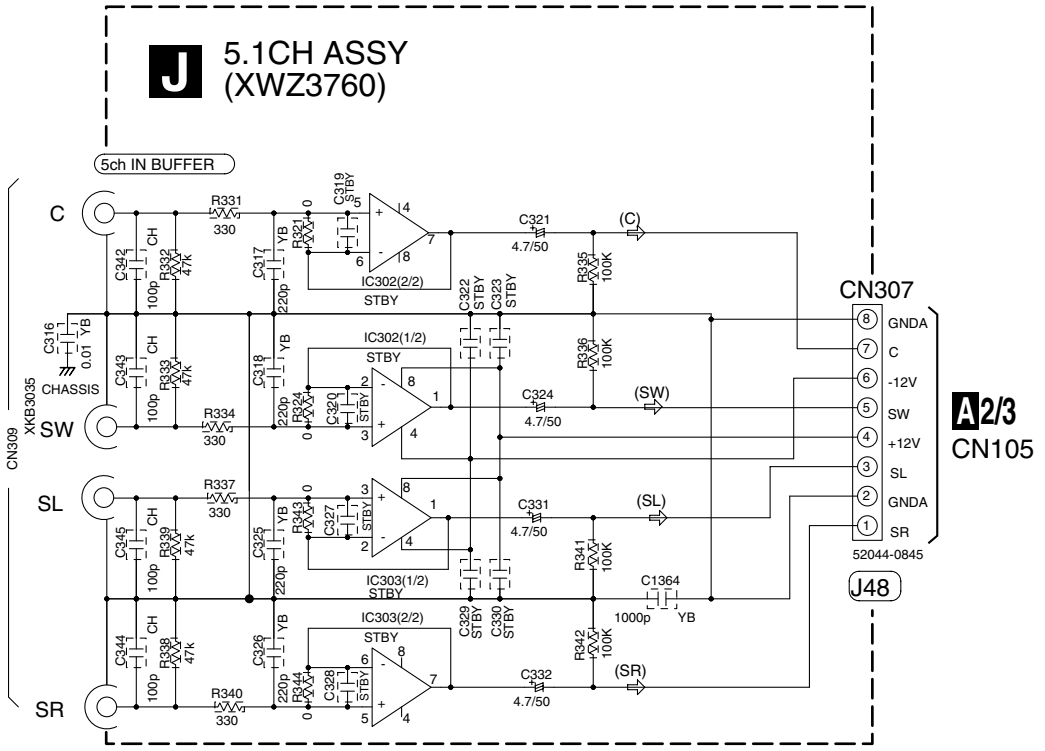
F

I
VIDEO ASSY (XWZ3752)



A3/3 CN104

J 5.1CH ASSY (XWZ3760)



A2/3 CN105

I J

VSX-D714-K

1 2 3 4

K
B TO B ASSY
(XWZ3781)

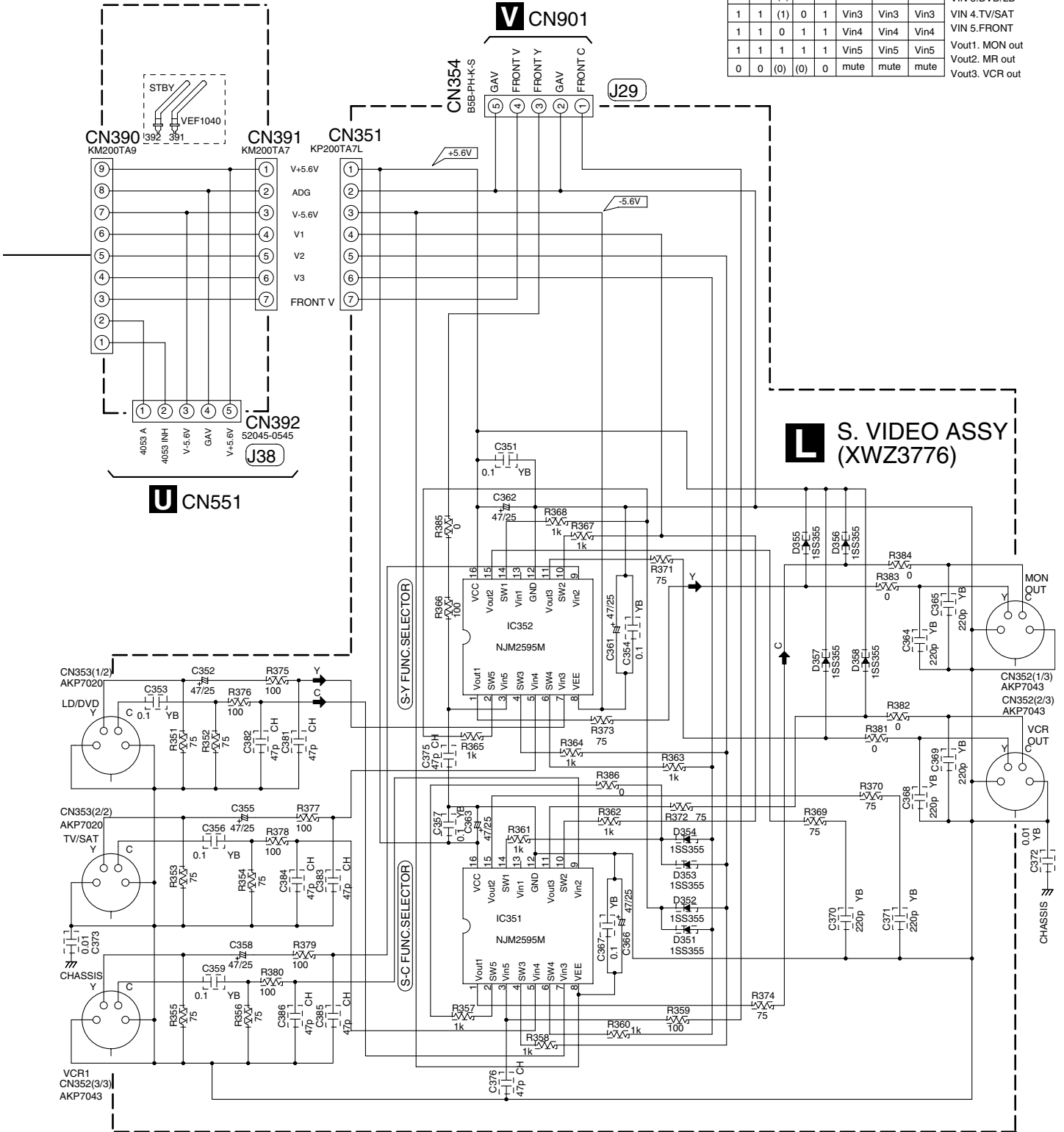
NOTE

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

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

NJM2595M control port status

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

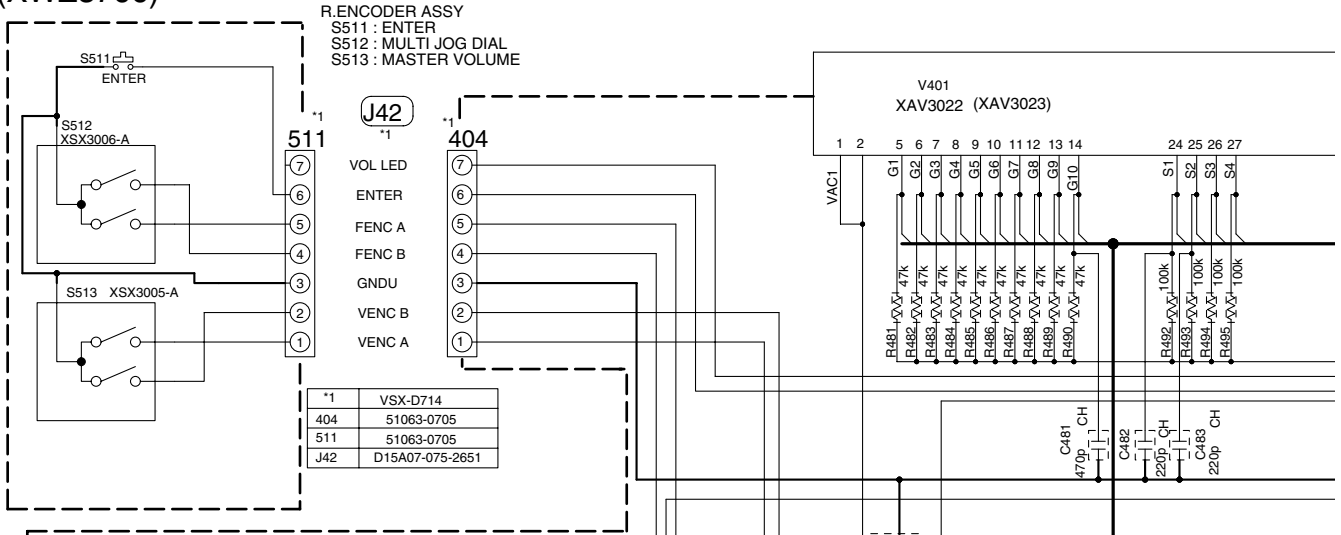


➔ VIDEO SIGNAL FLOW
 ⇄ AUDIO SIGNAL FLOW

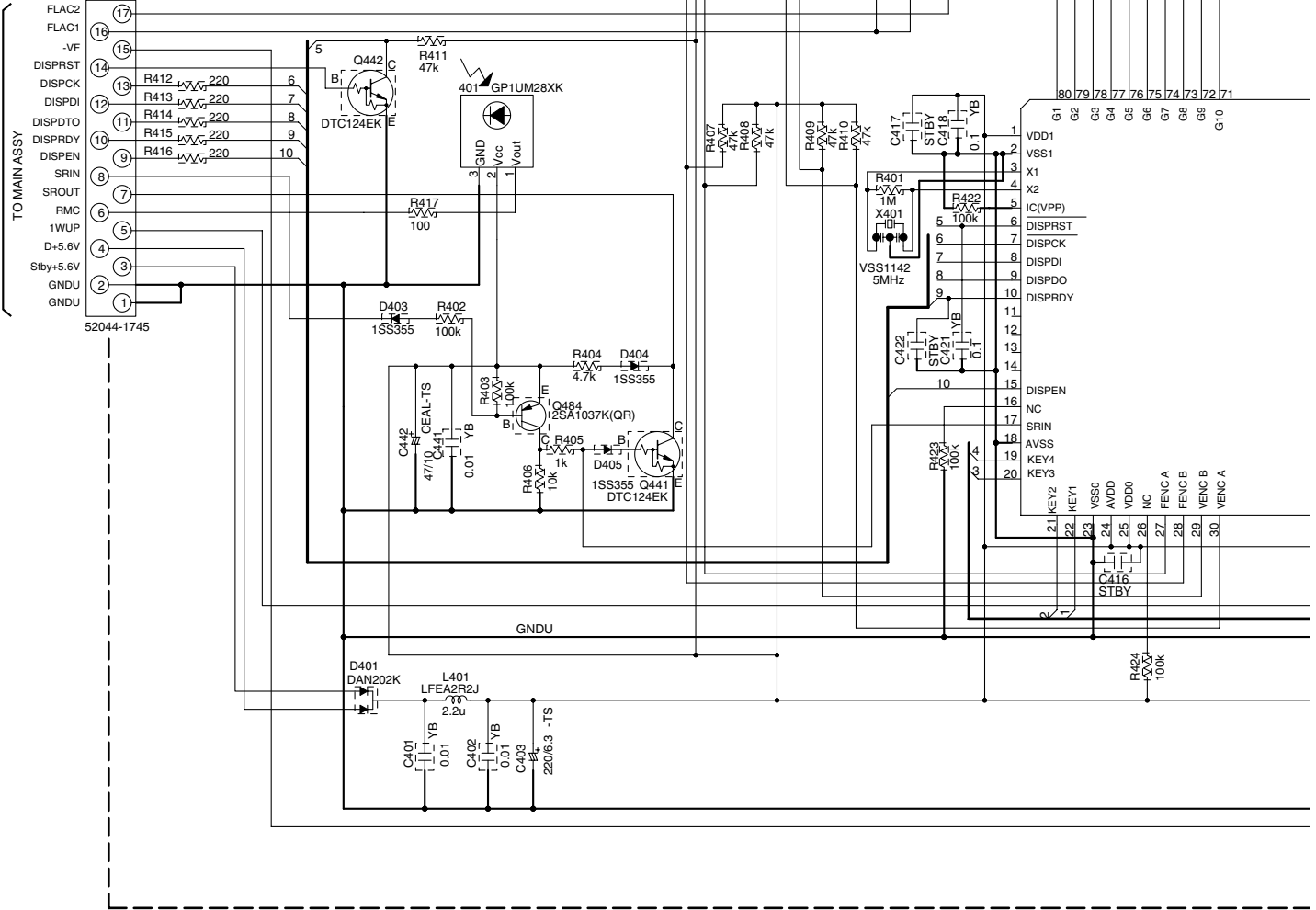
L
S. VIDEO ASSY
(XWZ3776)

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

R.ENCODER ASSY (XWZ3766)



FRONT DISPLAY ASSY (XWZ3756)

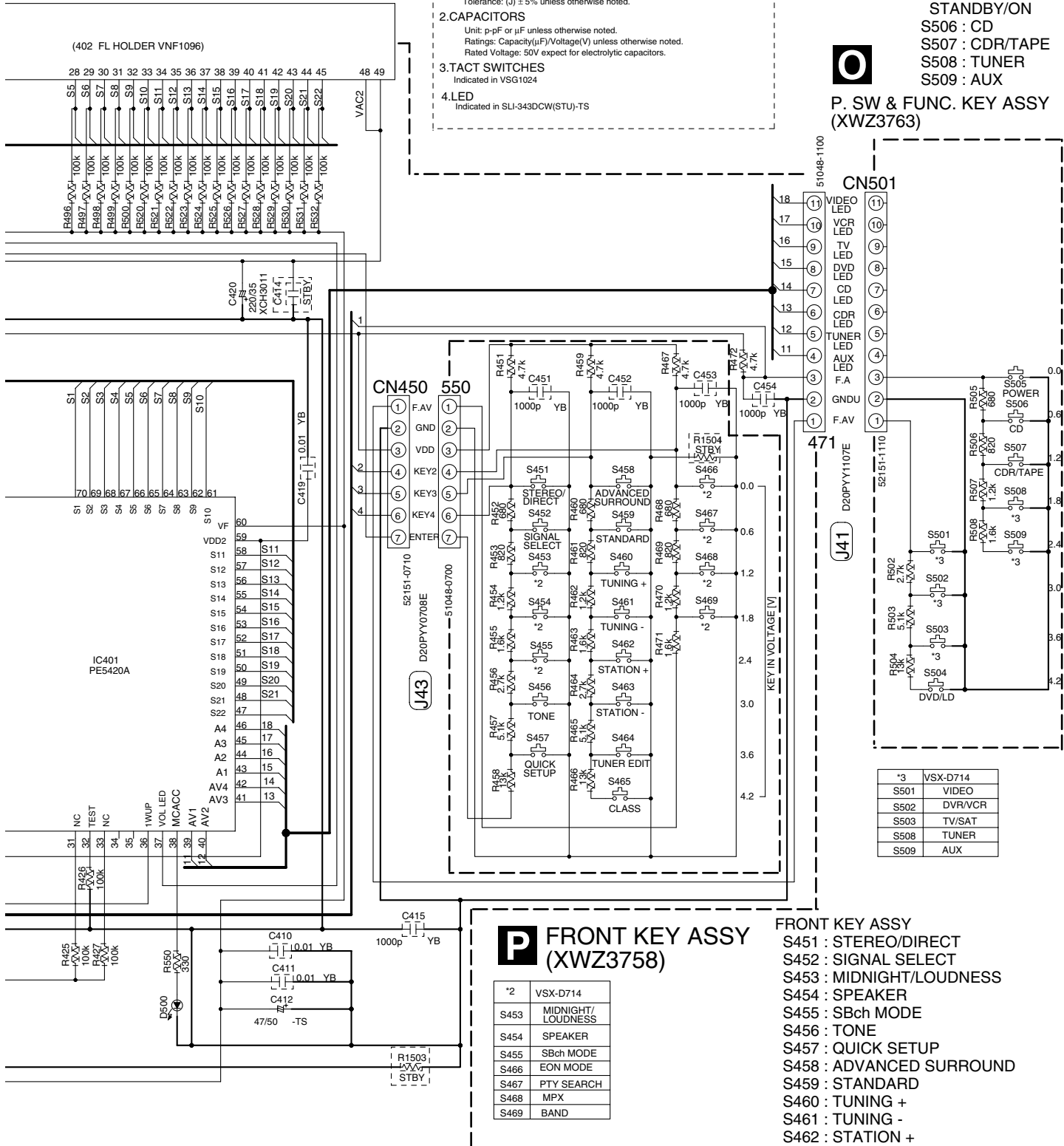


- POWER SW ASSY**
 S501 : VIDEO
 S502 : DVR/VCR
 S503 : TV/SAT
 S504 : DVD/LD
 S505 : POWER
 STANDBY/ON
 S506 : CD
 S507 : CDR/TAPE
 S508 : TUNER
 S509 : AUX



P. SW & FUNC. KEY ASSY (XWZ3763)

- NOTE -
 1. RESISTORS
 Unit: k-Ω, M-Ω or Ω unless otherwise noted.
 Rated power: 1/10W unless otherwise noted.
 Tolerance: (J) ± 5% unless otherwise noted.
 2. CAPACITORS
 Unit: p-pF or μF unless otherwise noted.
 Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
 Rated Voltage: 50V expect for electrolytic capacitors.
 3. TACT SWITCHES
 Indicated in VSG1024
 4. LED
 Indicated in SU-343DCW(STU)-TS

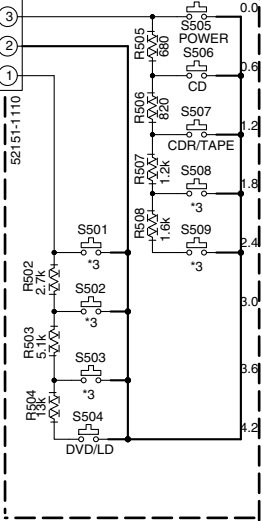


CN501

- 18 VIDEO LED
- 17 VCR LED
- 16 TV LED
- 15 DVD LED
- 14 CD LED
- 13 CDR LED
- 12 TUNER LED
- 11 AUX LED
- 10 F.A
- 9 GNDU
- 8 F.AV



D20PY1107E



*3	VSX-D714
S501	VIDEO
S502	DVR/VCR
S503	TV/SAT
S508	TUNER
S509	AUX

P FRONT KEY ASSY (XWZ3758)

*2	VSX-D714
S453	MIDNIGHT/ LOUDNESS
S454	SPEAKER
S455	SBCh MODE
S466	EON MODE
S467	PTY SEARCH
S468	MPX
S469	BAND

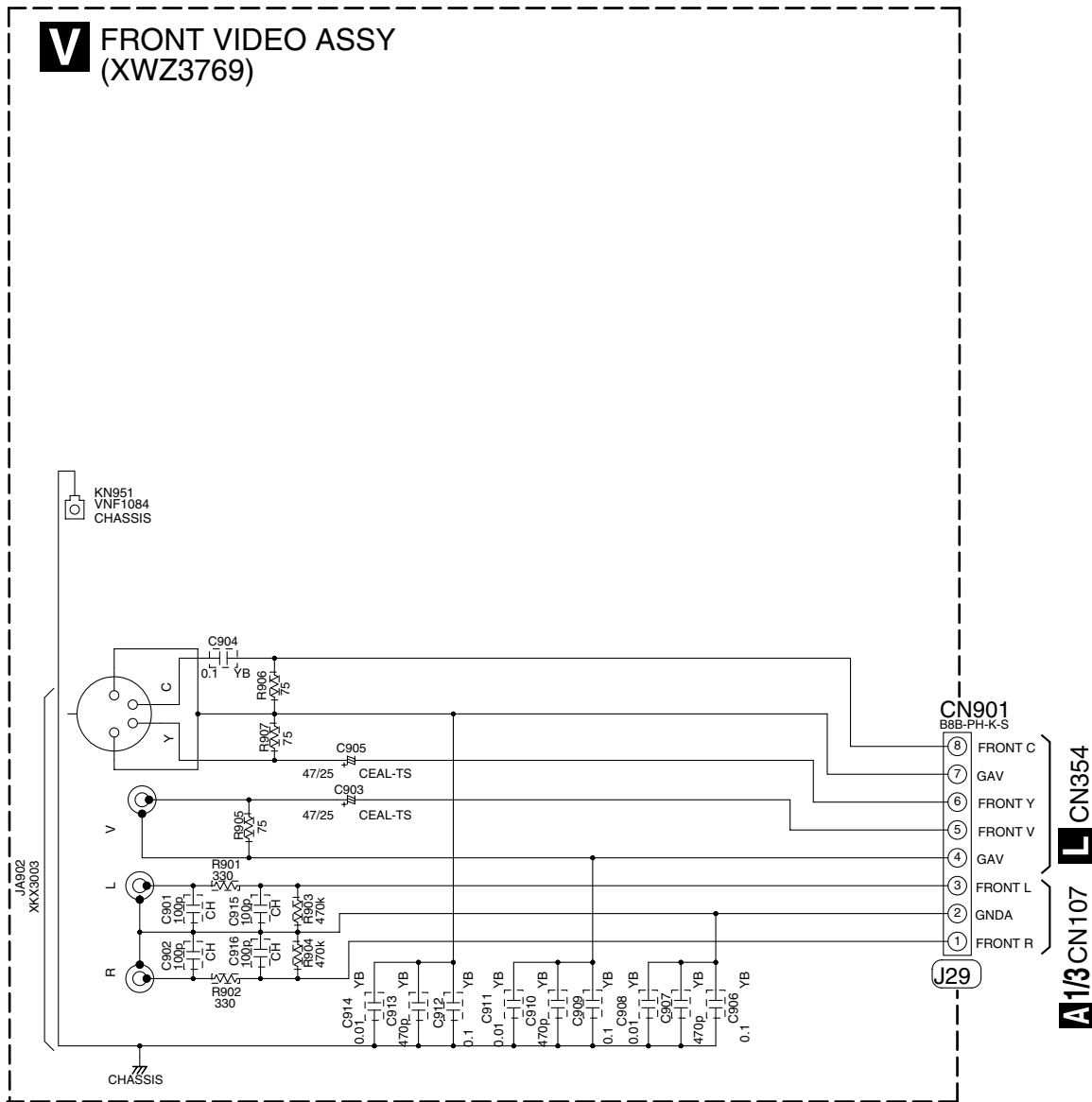
FRONT KEY ASSY

- 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

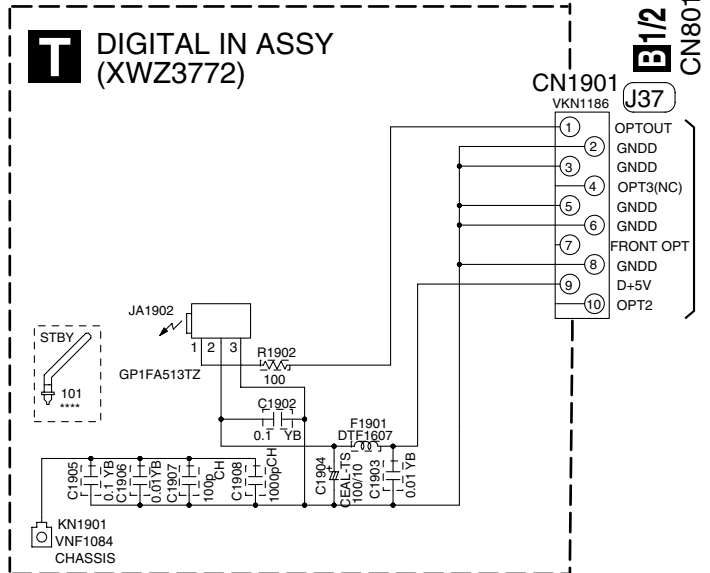


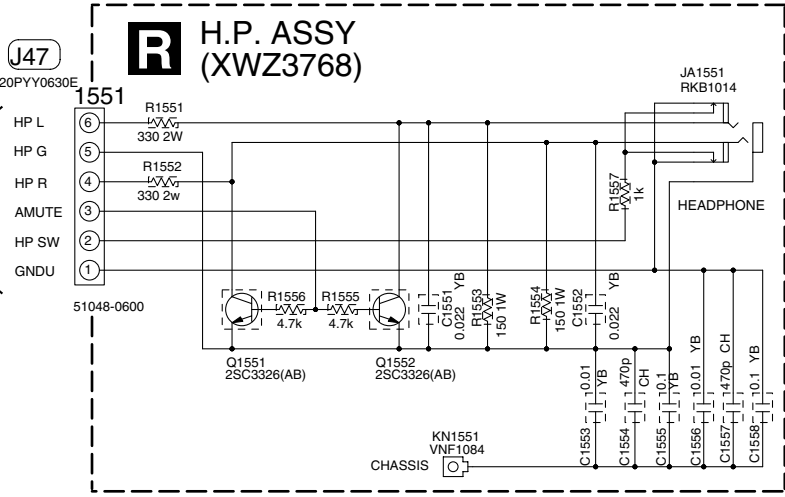
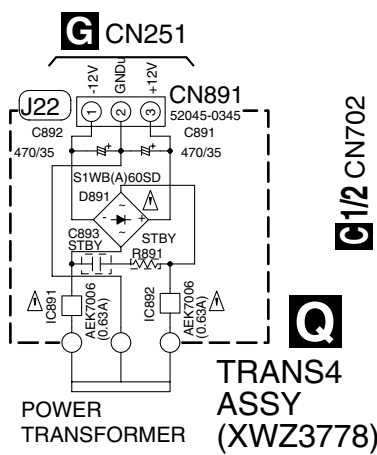
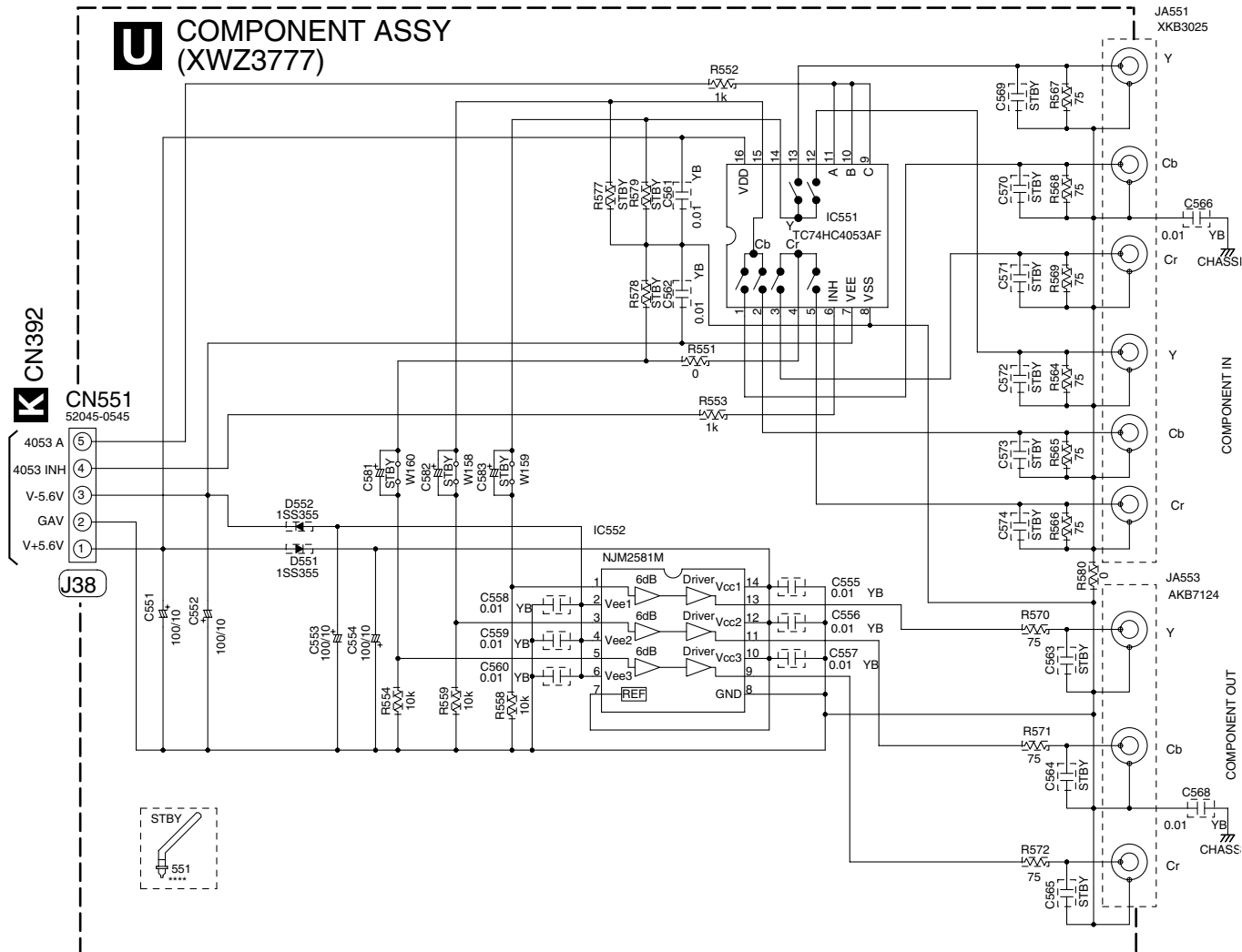
3.12 TRANS4, H.P., D.IN, COMP. and F.VIDEO ASSYS

V FRONT VIDEO ASSY (XWZ3769)



T DIGITAL IN ASSY (XWZ3772)





CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.630 FOR IC891 AND IC892 MFD, BY LITTELFUSE INC.

NOTE

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

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

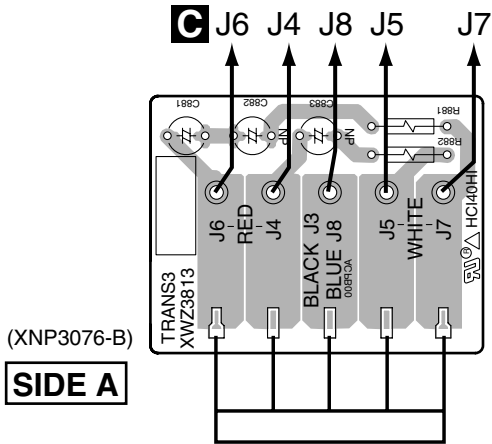
Q R U

4.2 TRANS2, TRANS3, TRANS1 and TRANS4 ASSYS

SIDE A

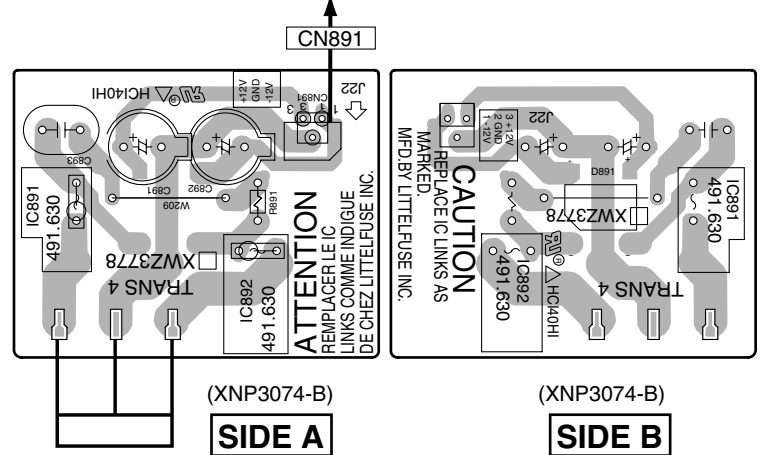
SIDE B

E TRANS3 ASSY

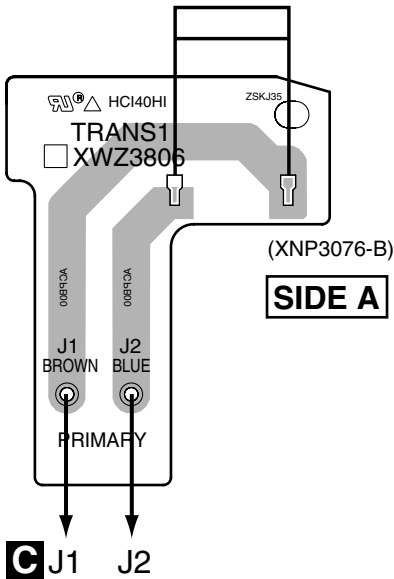


Q TRANS4 ASSY

G CN251

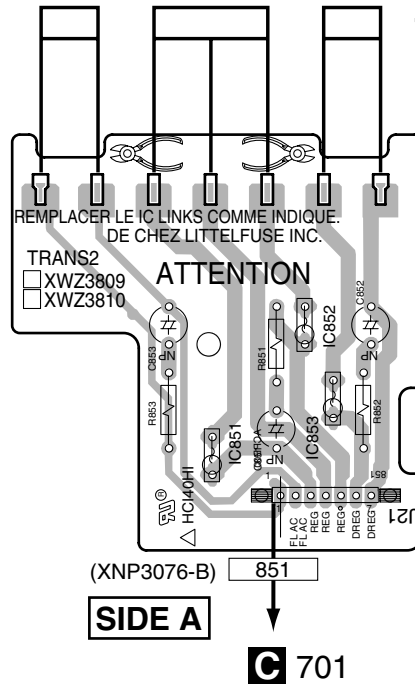


POWER TRANSFORMER



H TRANS1 ASSY

D TRANS2 ASSY



D E H Q

D E H Q

SIDE B

A

B

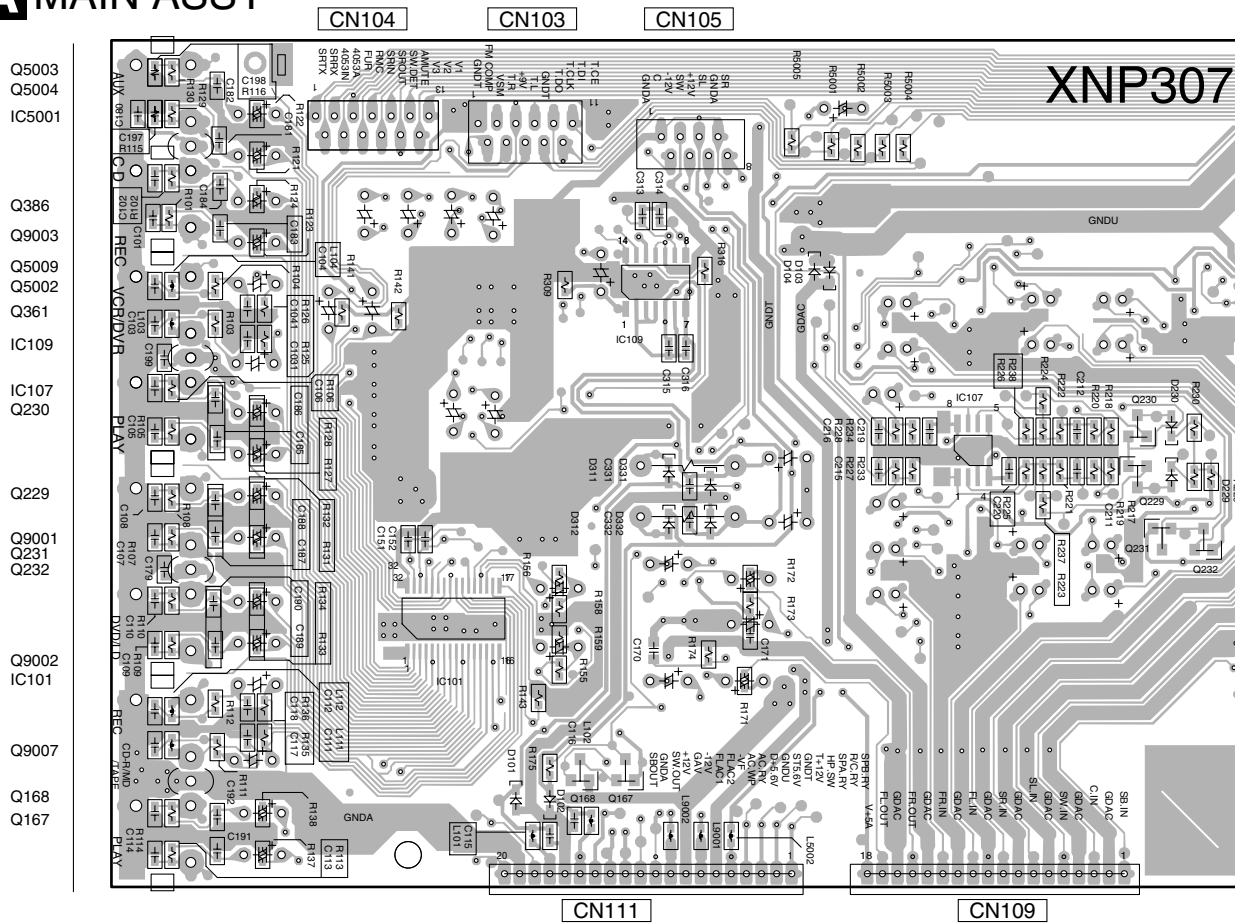
C

D

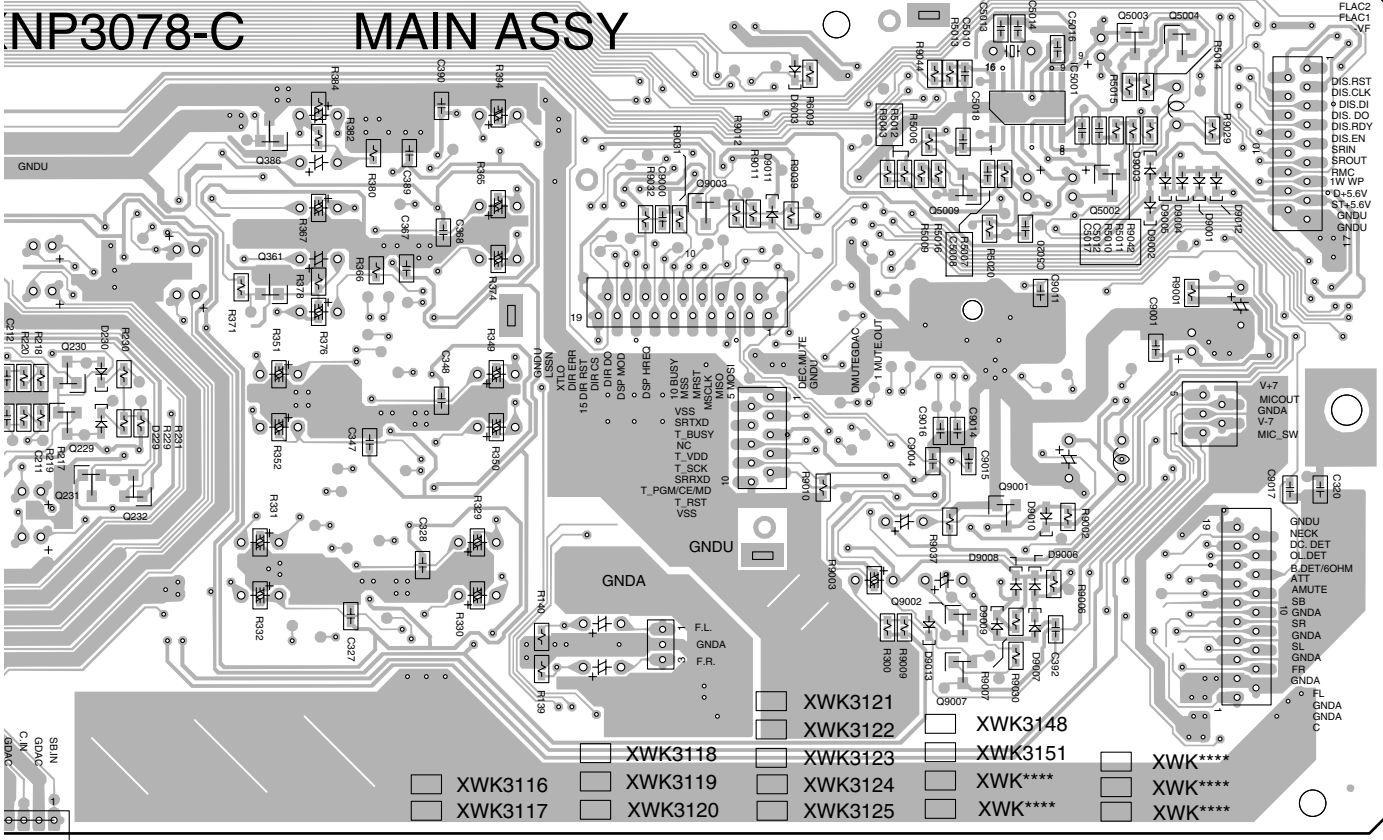
E

F

A MAIN ASSY



A



CN112

CN101

CN108

CN106

CN107

(XNP3078-C)

4.4 DSP ASSY

SIDE A

DSP ASSY

SIDE A

T CN1901

CN8017

CN8003

F CN805

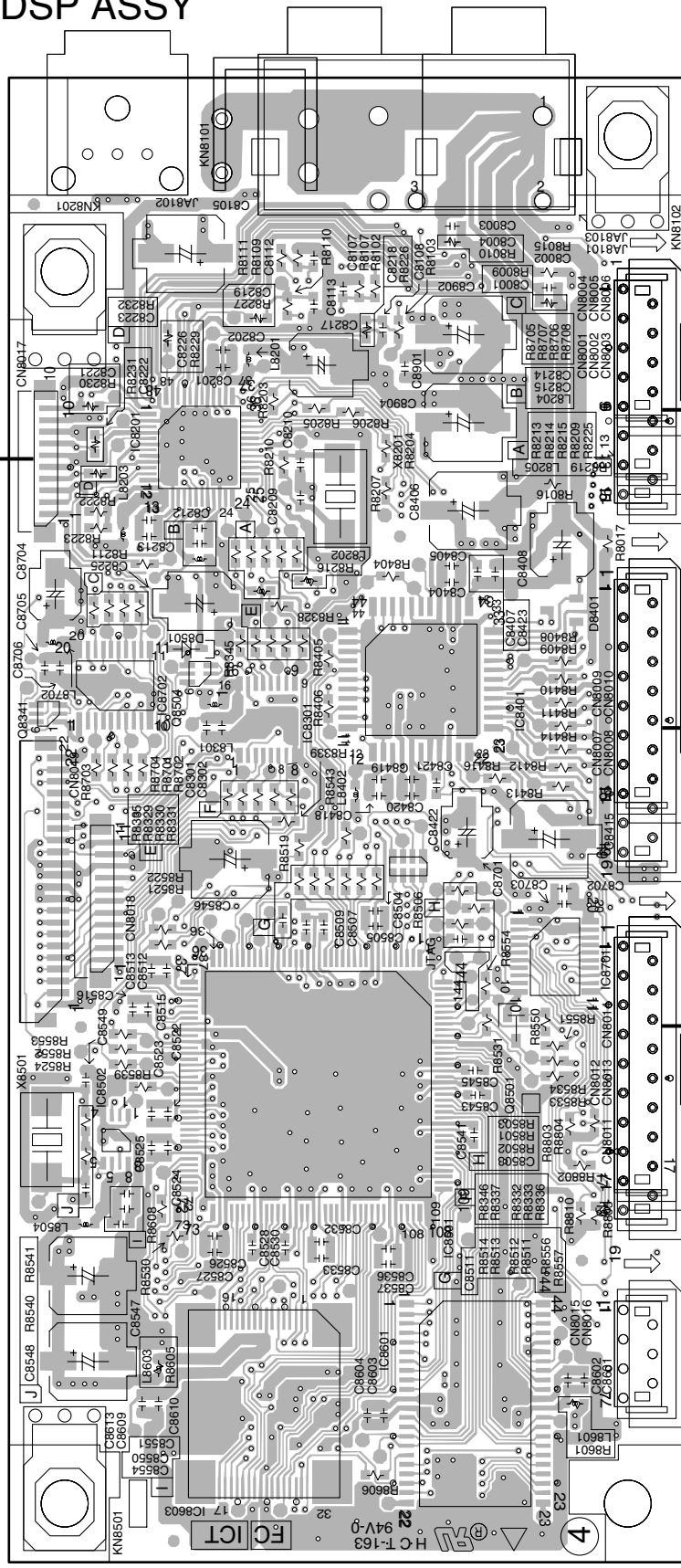
CN8007

F CN806

CN8012

A CN112

(ANP2022-B)



A
B
C
D
E
F

B

B

4.5 AMP & PRIMARY and AMP INPUT ASSYS

SIDE A

A

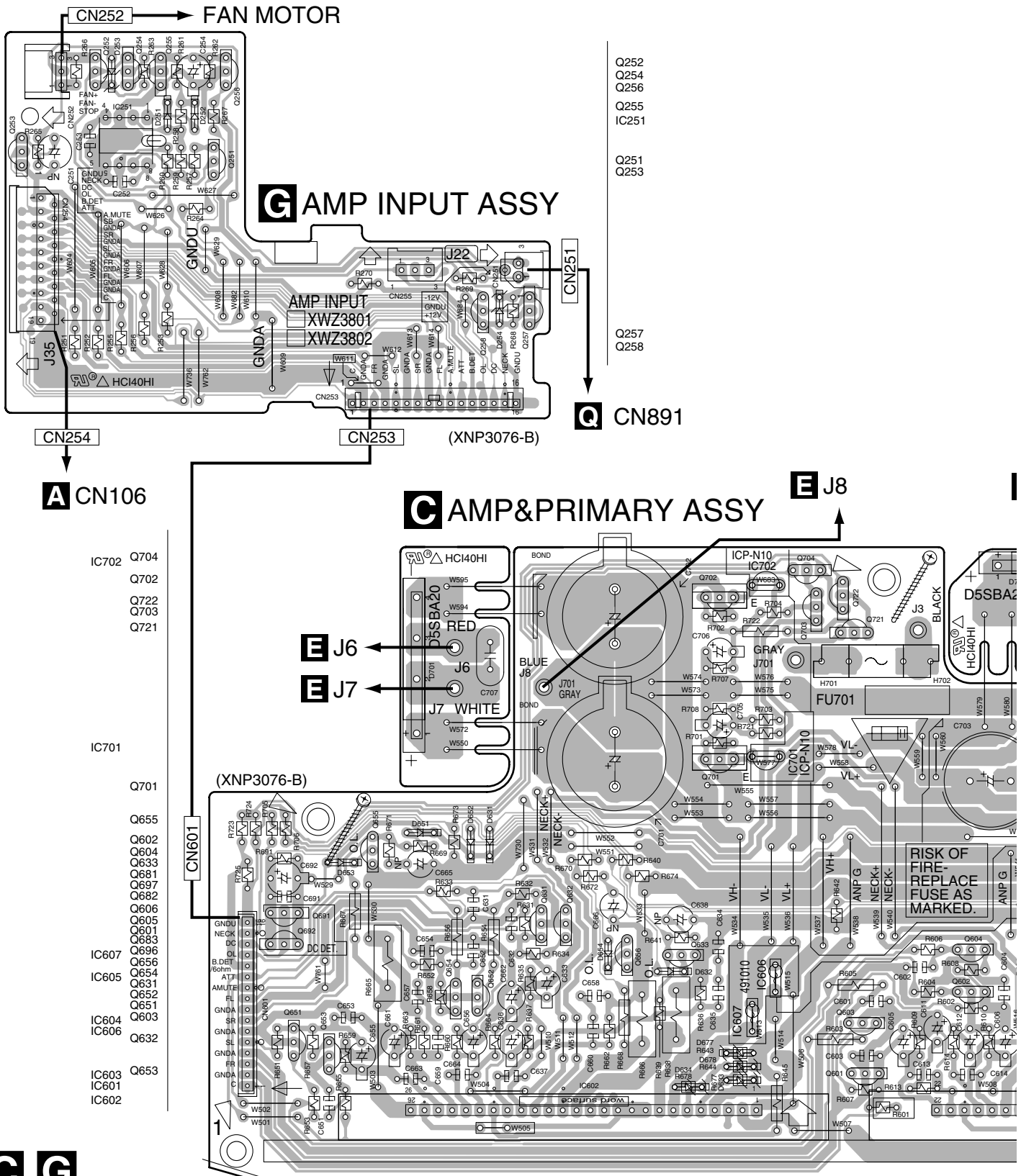
B

C

D

E

F



- IC702 Q704
- Q702
- Q722
- Q703
- Q721

IC701

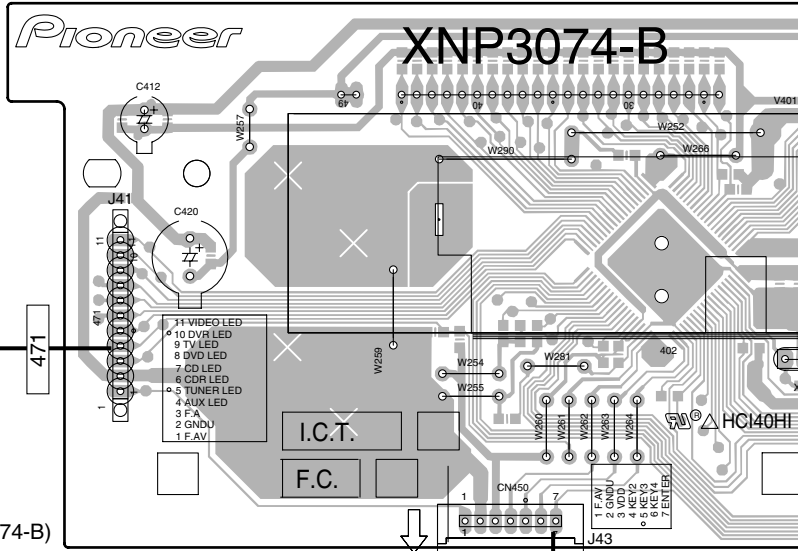
- Q701
- Q655
- Q602
- Q604
- Q633
- Q681
- Q697
- Q692
- Q606
- Q605
- Q601
- Q683
- IC607
- Q696
- DC DET
- IC605
- Q654
- Q631
- Q652
- Q651
- IC604
- Q603
- Q632
- Q653
- IC603
- IC601
- IC602

RISK OF FIRE - REPLACE FUSE AS MARKED.

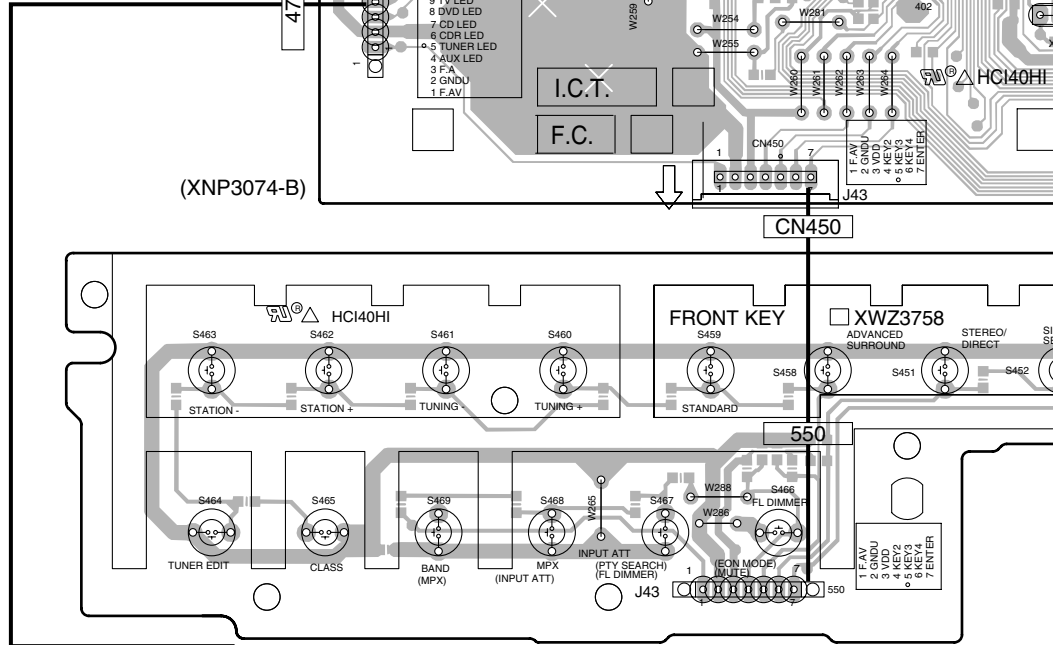
4.6 F. DISPLAY, R. ENCODER, P. SW & FUNC. KEY, H. P. and F. KEY ASSYS

SIDE A

M FRONT DISPLAY ASSY

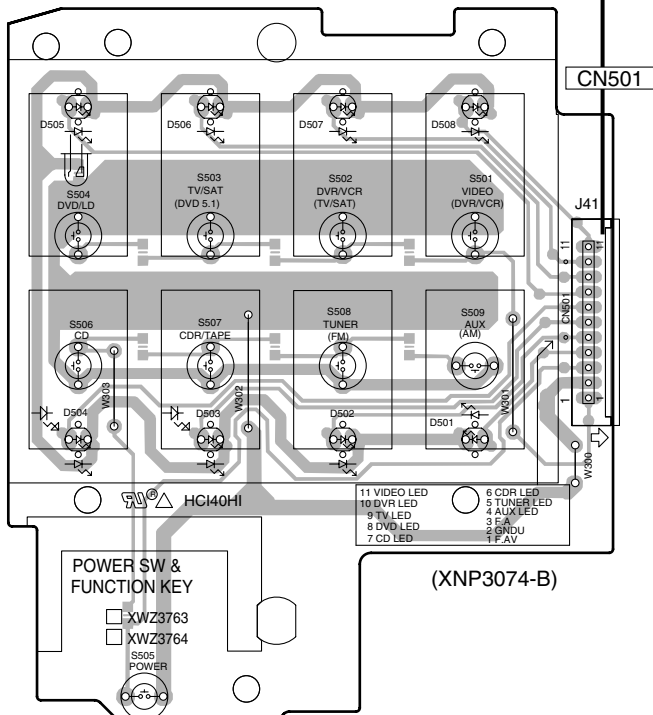


(XNP3074-B)



550

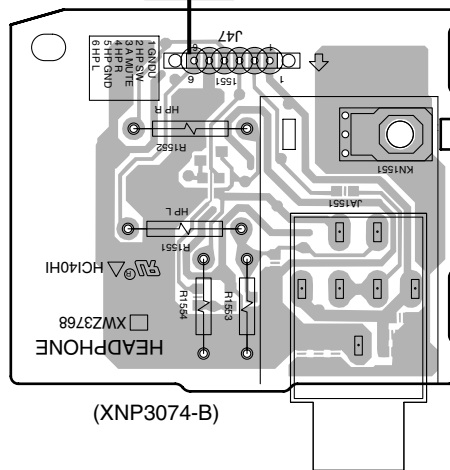
O P. SW & FUNC. KEY ASSY



(XNP3074-B)

C CN702

R H.P ASSY



(XNP3074-B)

M O P R

SIDE B

A

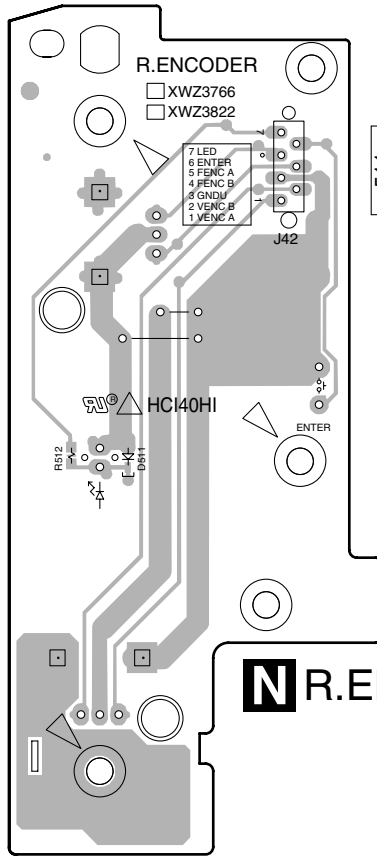
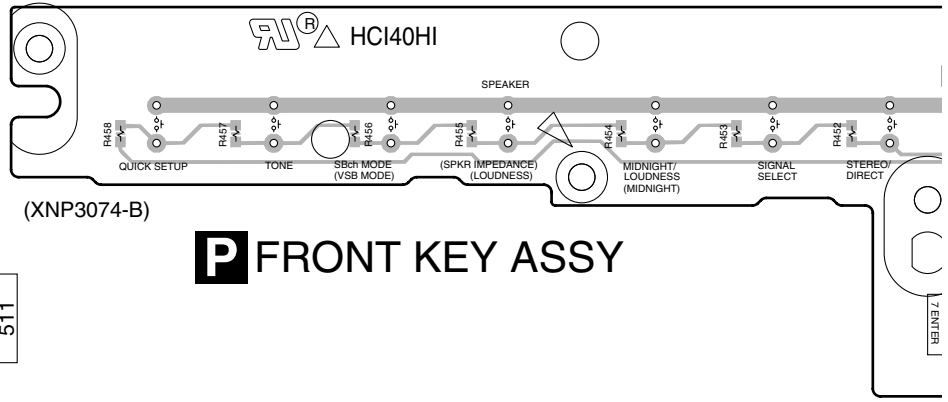
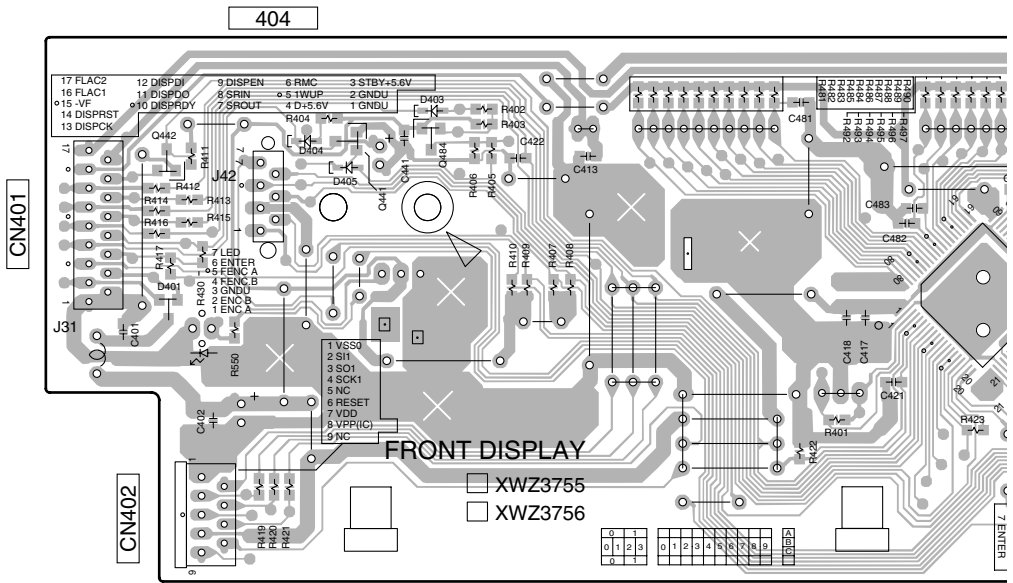
B

C

D

E

F

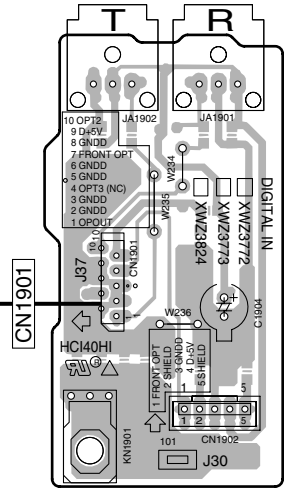


M N P

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

SIDE A

T DIGITAL IN ASSY

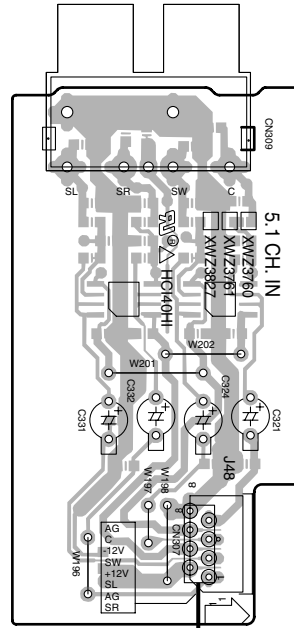


B CN8017

(XNP3074-B)

SIDE A

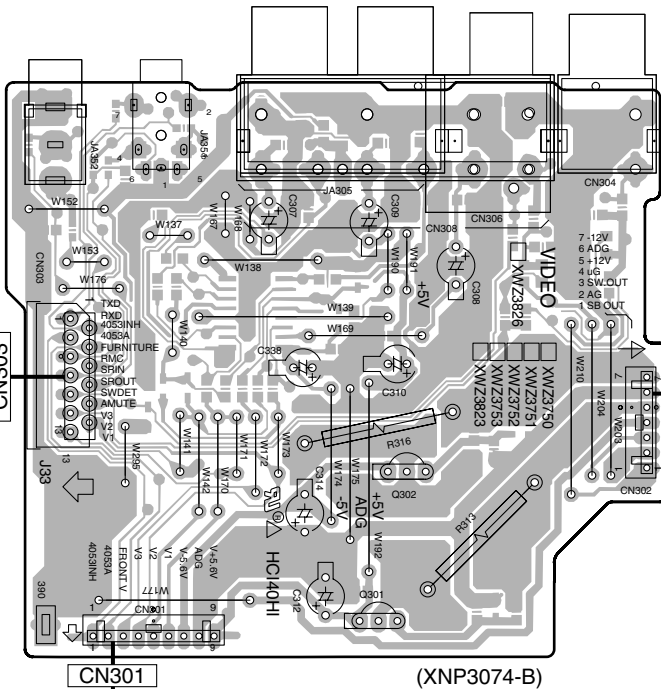
J 5.1CH ASSY



(XNP3074-B)

A CN105

I VIDEO ASSY



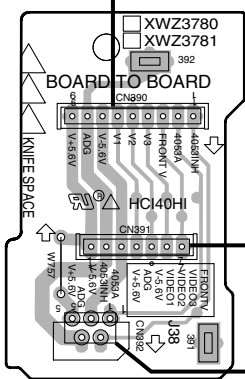
A CN104

(XNP3074-B)

F CN803

Q302
Q301

K B TO B ASSY



L CN351

U CN551

(XNP3074-B)

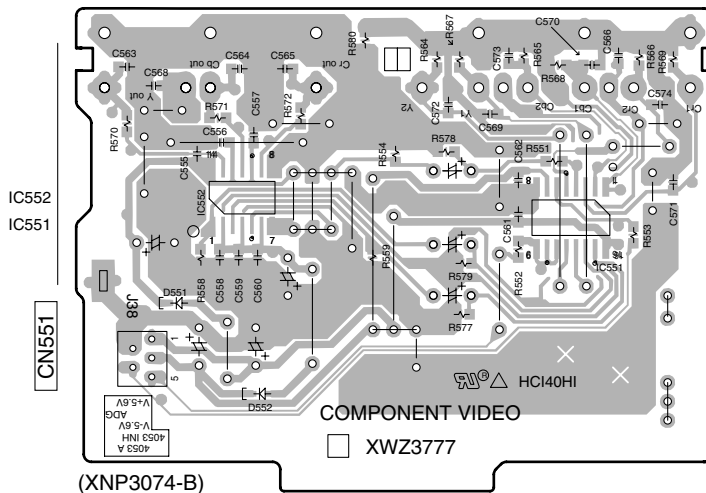
I J K T

I J K T

SIDE B

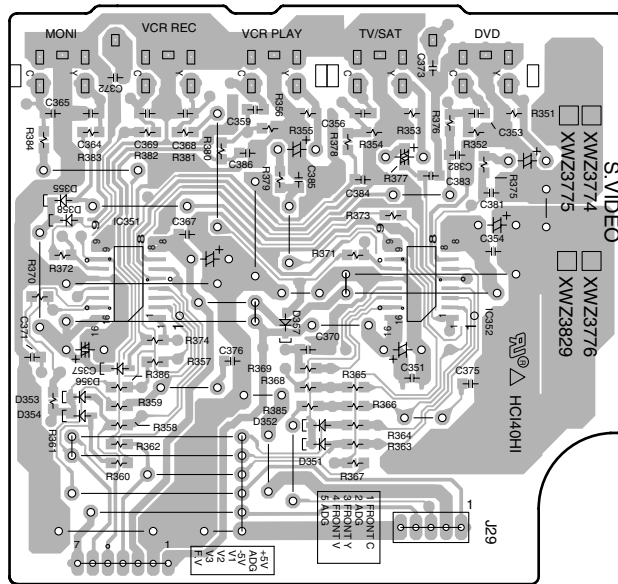
SIDE B

U COMPONENT ASSY



(XNP3074-B)

L S. VIDEO ASSY



5. PCB PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 ● The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 ● When ordering resistors, first convert resistance values into code form as shown in the following examples.
 Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω \rightarrow 56×10^1 \rightarrow 561 RD1/4PU567J
 47k Ω \rightarrow 47×10^3 \rightarrow 473 RD1/4PU473J
 0.5 Ω \rightarrow R50 RN2H R50K
 1 Ω \rightarrow 1R0 RS1P 1R0K

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 RN1/4PC5621F

Mark No. Description Part No.

LIST OF ASSEMBLIES

	1..MAIN ASSY	XWK3120
	1..DSP ASSY	AWX1082
NSP	1..AMP & PS ASSY	XWK3138
	2..AMP & PRIMARY ASSY	XWZ3788
	2..REGULATOR ASSY	XWZ3798
	2..AMP INPUT ASSY	XWZ3801
	2..TRANS1 ASSY	XWZ3806
	2..TRANS2 ASSY	XWZ3809
	2..TRANS3 ASSY	XWZ3813
	2..BINDER ASSY	XWZ3817
	2..HOLDER ASSY	XWZ3820
NSP	1..COMPLEX ASSY	XWK3129
	2..VIDEO ASSY	XWZ3752
	2..FRONT DISPLAY ASSY	XWZ3756
	2..FRONT KEY ASSY	XWZ3758
	2..5.1CH ASSY	XWZ3760
	2..P. SW & FUNC. KEY ASSY	XWZ3763
	2..R. ENCODER ASSY	XWZ3766
	2..H.P. ASSY	XWZ3768
	2..FRONT VIDEO ASSY	XWZ3769
	2..DIGITAL IN ASSY	XWZ3772
	2..S. VIDEO ASSY	XWZ3776
	2..COMPONENT ASSY	XWZ3777
	2..TRANS4 ASSY	XWZ3778
	2..B TO B ASSY	XWZ3781
	1..FM/AM TUNER UNIT	AXX7170

Mark No. Description Part No.

A MAIN ASSY SEMICONDUCTORS

IC109	BD3812F
IC108	BD3813KS
IC101	BD3841FS
IC5001	BU1924F
IC102	NJM2100M
IC9001	PEG062A
IC103-IC107, IC110-IC112, IC115	UPC4570G2
Q5004, Q6001	2SA1037K
Q5009	2SC2412K
Q165, Q166, Q321, Q322	2SC3326
Q341, Q342, Q361, Q362, Q386	2SC3326
Q388, Q395	2SC3326
Q5001	2SD1664
Q229, Q230	2SK208
Q167, Q231, Q9002-Q9005	DTA124EK
Q9008	DTA143TK
Q232, Q6002	DTC124EK
Q168, Q5003, Q6007, Q6008, Q9001	DTC143EK
Q9006	DTC143EK
Q9007	DTC143TK
D103-D108, D229, D230, D301	1SS355
D311, D312, D6001, D6002	1SS355
D9001-D9013	1SS355
D101, D102	RB501V-40
D5007	UDZS10B
D331, D332	UDZS6.8B

COILS AND FILTERS

L9001, L9002 CHIP SOLID INDUCTOR	ATL7002
L5001, L9003	LFEA2R2J
L101-L104, L111, L112, L5002	QTL1013
CHIP SOLID INDUCTOR	

CAPACITORS

C101-C114, C151, C152	CCSRCH101J50
C163, C164, C181-C192	CCSRCH101J50
C197, C198, C243, C244, C263	CCSRCH101J50
C284, C313, C314, C317, C318	CCSRCH101J50
C323, C324, C343, C344, C363	CCSRCH101J50
C386	CCSRCH101J50
C1031, C1041, C117, C118	CCSRCH220J50
C5013, C5014	CCSRCH270J50
C205-C208, C245-C248, C265	CCSRCH331J50
C267, C286, C288	CCSRCH331J50

Mark No. Description Part No.

COMPLEX ASSY

OTHERS

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

AMP & PS ASSY

OTHERS

J21 JUMPER WIRED	D20PYY0715E
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5	6	7	8
Mark No.	Description	Part No.	Mark No. Description Part No.
C203, C204 C5017 C366 C121-C128, C131-C142 C167, C168, C209, C210	CCSRCH471J50 CCSRCH561J50 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		
C307, C308, C364, C5020 C9011, C9014 C268 C391 C9003 (1F/5.5V)	CKSRYB472K50 CKSRYB473K16 CKSRYB562K50 CKSRYF104Z16 PCH1132		
RESISTORS			
△ R171, R172 △ R173, R174 △ R311, R312 Other Resistors	RS1/16S470J RS1/16S472J RS1LMF101J RS1/16S###J		
OTHERS			
CN105 8P CONNECTOR CN103 11P CONNECTOR CN104 13P CONNECTOR CN101 5P CONNECTOR CN106, CN112 19P CONNECTOR	52044-0845 52044-1145 52044-1345 52045-1745 52045-1945		
CN107 CONNECTOR POST CN109 18P SOCKET CN111 20P SOCKET 101-103 PCB BINDER JA101-JA104 PIN JACK(4P)	B3B-PH-K KP200TA18L KP200TA20L VEF1040 XKB3017		
X5001 CRYSTAL RESONATOR (4.332 MHz) X9001 CERAMIC RESONATOR (15.7 MHz)	ASS7004 XSS3004		
		B DSP ASSY SEMICONDUCTORS	
		IC8201 IC8401 IC8501 IC8601 IC8602	AK4114VQ AK4628VQ DSPD56367PV150 IS61LV6416-12T IS63LV1024-12T
		IC8901 IC8902 IC8603 IC8101 IC8701	NJM2391DL1-33 NJU7223DL1-18 PD8116A TC74HCU04AF TC74LVX244FT
		IC8702 IC8503 IC8502 Q8504 Q8503	TC74VHCT244AFT TC7WH125FU TC7WU04FU UMD2N UN5112
		Q8501 D8501 D8401 D8402, D8502, D8503	UN5212 1SS355 DAN202K DAP202K
		COILS AND FILTERS	
		L8002, L8004, L8501, L8502 L8601-L8603 CHIP SOLID INDUCTOR L8101-L8104, L8201, L8203, L8204 L8401, L8402, L8504, L8505 L8701, L8702 CHIP SOLID INDUCTOR	ATL7002 ATL7002 QTL1013 QTL1013 QTL1013
		CAPACITORS	
		C8209, C8210 C8421 C8107, C8112 C8007, C8008, C8109, C8201, C8212 C8214, C8404, C8409-C8414	CCSRCH100D50 CCSRCH101J50 CCSRCH470J50 CCSRCH471J50 CCSRCH471J50
		C8416, C8417, C8419, C8505, C8507 C8509, C8511, C8512, C8515, C8518 C8520, C8522, C8524, C8526, C8528 C8530, C8532, C8534, C8536, C8539 C8541, C8543, C8545, C8551, C8552	CCSRCH471J50 CCSRCH471J50 CCSRCH471J50 CCSRCH471J50 CCSRCH471J50
		C8602, C8603, C8606, C8607, C8610 C8703, C8706 C8548, C8549 C8701, C8704 C8105, C8406, C8415, C8546, C8547	CCSRCH471J50 CCSRCH471J50 CCSRCH8R0D50 CEV100M16 CEV101M16
		C8613, C8902, C8904 C8217, C8225, C8408 C8204, C8555 C8009, C8104, C8114, C8405, C8418 C8517, C8554	CEV101M16 CEV470M6R3 CKSRYB102K50 CKSRYB103K50 CKSRYB103K50
		C8010, C8115, C8202, C8207, C8213 C8215, C8407, C8420, C8422, C8504 C8513, C8521, C8523, C8525, C8527 C8529, C8531, C8533, C8535 C8537, C8538, C8540, C8542, C8544	CKSRYB104K16 CKSRYB104K16 CKSRYB104K16 CKSRYB104K16 CKSRYB104K16
		C8550, C8553, C8601, C8604, C8605 C8608, C8609, C8702, C8705, C8901 C8903 C8110, C8516 C8514	CKSRYB104K16 CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYB333K16

Mark No. Description**Part No.**

C8203

CKSRYB473K50

A RESISTORS

R8506

RAB4C101J

R8201

RS1/16S1802F

Other Resistors

RS1/16S###J

OTHERS

CN8012 19P CONNECTOR

52045-1945

JA8101 2P PIN JACK

AKB7131

CN8003 13P SOCKET

AKP7070

CN8007 19P SOCKET

AKP7073

JA8102 OPT. LINK IN

GP1FA513RZB

B

CN8017 10P CONNECTOR

VKN1414

X8501 CRYSTAL RESONATOR

VSS1171

(20 MHz)

X8201 CRYSTAL RESONATOR

XSS3003

(24.576 MHz)

C AMP & PRIMARY ASSY SEMICONDUCTORS

⚠ IC52 PROTECTOR(500mA)

AEK7005

⚠ IC603 PROTECTOR(1A)

AEK7009

⚠ IC604-IC607 PROTECTOR(125mA)

AEK7022

IC701, IC702 PROTECTOR(400mA)

ICP-N10

IC51

NJM78M56FA

C

⚠ IC601

PAC010A

⚠ IC602

PAC011A

Q703, Q721

2SA1145

Q702

2SA2005

Q691, Q692

2SC1740S

Q704, Q722

2SC1845

Q605, Q606, Q633, Q655, Q656

2SC2240

Q701

2SC5511

Q601-Q604, Q631, Q632

2SC5974A

Q651-Q654

2SC5974A

D

Q51

DTC143ES

D56, D57, D601-D604

1SS133

D631, D632, D651-D654

1SS133

D751, D752, D755-D758

1SS133

⚠ D701, D702

D5SBA20

D711

MTZJ22D

D58, D712

MTZJ5.1B

D605, D606, D633, D634

MTZJ8.2A

⚠ D51-D55, D721-D724

S5688G

E COILS AND FILTERS

L751-L753, L761, L762

ATH1004

L51 LINE FILTER

XTF3004

SWITCHES AND RELAYS

RY51

XSR3006

RY751-RY754

XSR3007

CAPACITORS

C707, C708 (0.01/AC250V)

ACG1005

C607-C610, C634, C635

CCPUCH6R8K50

C657-C660

CCPUCH6R8K50

C615, C616, C638, C665, C666

CEANP2R2M50

C775, C776

CEANP470M50

F

C712

CEAT101M10

Mark No. Description**Part No.**

C611, C612, C636, C661, C662

CEAT101M16

C711

CEAT101M35

C53

CEAT102M16

C692

CEAT221M10

C54

CEAT470M25

C605, C606, C633, C655, C656

CEAT4R7M50

C705, C706

CEHAT100M2A

C613, C614, C637, C663, C664

CKPUYB101K50

C691, C769, C770

CKPUYB102K50

C603, C604, C632, C653, C654

CKPUYB331K50

C55-C57

CKPUYF103Z25

C751-C756, C761-C764

CQMBA224J50

C757-C759, C765-C768

CQMBA472J50

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

XCG3009

C703, C704 (3300/42V)

XCH3012

C701, C702 (4700/71V)

XCH3016

RESISTORS

R615, R616, R638, R665, R666

ACN7094

(0.22/5W)

⚠ R52

RD1/2PM270J

⚠ R751, R752, R755, R761, R762

RD1/4PUF101J

⚠ R753, R754, R756, R763, R764

RS1LMF4R7J

⚠ R711

RS2LMF332J

Other Resistors

RD1/4PU###J

OTHERS

CN53 23P CONNECTOR

52045-2345

CN702 6P JUMPER CONNECTOR

52147-0610

H51, H52 FUSE CLIP

AKR7001

⚠ T51 STANDBY TRANSFORMER

ATT7040

CN601 16P PLUG

KM200TA16

CN51 AC CODE SOCKET

RKP1751

KN51, KN601 EARTH METAL FITTING

VNF1084

CN752 SP TERMINAL 8-P(V0)

XKE3017

CN751 SP TERMINAL 6-P(V0)

XKE3018

701 7P CABLE HOLDER

XKP3047

D TRANS2 ASSY SEMICONDUCTORS

⚠ IC853 PROTECTOR(1.6A)

AEK7012

⚠ IC851, IC852 PROTECTOR (4A)

AEK7018

OTHERS

851 7P CABLE HOLDER

XKP3047

E TRANS3 ASSY

TRANS3 ASSY has no service part.

F REGULATOR ASSY SEMICONDUCTORS

IC803, IC804

NJM78M05FA

IC801, IC805

NJM78M12FA

IC806

NJM78M56FA

IC802

NJM79M12FA

Q801, Q803, Q805

DTA124ES

Q802, Q804, Q806

DTC114ES

D809-D811

MTZJ6.2B

⚠ D801-D804

S5688G

5	6	
Mark No.	Description	Part No.
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

G 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 16P SOCKET	KP200TA16L
CN252 3PIN CONNECTOR	S3B-EH

H TRANS1 ASSY

TRANS1 ASSY has no service part.

I VIDEO ASSY SEMICONDUCTORS

IC301	NJM2595M
Q302	2SA1515
Q303, Q304	2SC3326
Q301	2SC3377
D301, D302, D305, D306	1SS355
D307	UDZS5.1B
D303, D304	UDZS6.2B

7	8	
Mark No.	Description	Part No.
COILS AND FILTERS		
L301-L306	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

C380	CCSRCH331J50
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
CN304 PIN JACK 1P	AKB7042
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

J 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
---------------	-------------

OTHERS

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

K B TO B ASSY OTHERS

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

L S. VIDEO ASSY SEMICONDUCTORS

IC351, IC352	NJM2595M
D351-D358	1SS355

CAPACITORS

C375, C376, C381-C386	CCSRCH470J50
C352, C355, C358, C361-C363	CEAT470M25
C366	CEAT470M25
C372, C373	CKSRYB103K50
C351, C353, C354, C356, C357	CKSRYB104K25

Mark No. Description Part No.C359, C367
C364, C365, C368-C371CKSRYB104K25
CKSRYB221K50**A RESISTORS**

All Resistors

RS1/16S###J

OTHERSCN353 2-4P MINI DIN SOCKET
CN352 3-4P MINI DIN SOCKET
CN354 CONNECTOR POST
CN351 7P SOCKETAKP7020
AKP7043
B5B-PH-K
KP200TA7L**M FRONT DISPLAY ASSY
SEMICONDUCTORS**IC401
Q484
Q441, Q442
D403-D405
D401PE5420A
2SA1037K
DTC124EK
1SS355
DAN202K

D500

SLI-343DCW

COILS AND FILTERS

L401

LFEA2R2J

CAPACITORSC482, C483
C481
C442
C403
C412CCSRCH221J50
CCSRCH471J50
CEAL470M10
CEAT221M6R3
CEAT470M50C415, C454
C401, C402, C410, C411, C419
C441
C418, C421
C420 (220uF/35V)CKSRYB102K50
CKSRYB103K50
CKSRYB103K50
CKSRYB104K16
XCH3011**D RESISTORS**

All Resistors

RS1/16S###J

OTHERS471 11P CABLE HOLDER
404 CABLE HOLDER (7P)
CN401 17P CONNECTOR
CN450 7PJUMPER CONNECTOR
V401 FL TUBE51048-1100
51063-0705
52044-1745
52151-0710
XAV3022X401 CERAMIC RESONATOR
(5 MHz)
401 REMOTE RECEIVERUNITVSS1142
GP1UM28XK**N R. ENCODER ASSY
SWITCHES AND RELAYS**S511
S513 ROTARY ENCODER
S512 ROTARY ENCODERVSG1024
XSX3005
XSX3006**OTHERS**

511 CABLE HOLDER (7P)

51063-0705

**O P. SW & FUNC. KEY ASSY
SWITCHES AND RELAYS**

S501-S509

VSG1024

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

All Resistors

RS1/16S###J

**P FRONT KEY ASSY
SWITCHES AND RELAYS**

S451-S469

VSG1024

CAPACITORS

C451-C453

CKSRYB102K50

RESISTORS

All Resistors

RS1/16S###J

OTHERS

550 7P CABLE HOLDER

51048-0700

**Q TRANS4 ASSY
SEMICONDUCTORS**IC891, IC892 PROTECTOR (630mA)
D891AEK7006
S1WB(A)60SD**CAPACITORS**

C891, C892

CEAT471M35

OTHERS

CN891 3P CONNECTOR

52045-0345

**R H.P. ASSY
SEMICONDUCTORS**

Q1551, Q1552

2SC3326

CAPACITORSC1554, C1557
C1553, C1556
C1555, C1558
C1551, C1552CCSRCH471J50
CKSRYB103K50
CKSRYB104K16
CKSRYB223K50**RESISTORS**

⚠ R1553, R1554

⚠ R1551, R1552

Other Resistors

RS1LMF151J
RS2LMF331J
RS1/16S###J**OTHERS**1551 6P CABLE HOLDER
JA1551 HEADPHONE JACK
KN1551 EARTH METAL FITTING51048-0600
RKB1014
VNF1084**T DIGITAL IN ASSY
COILS AND FILTERS**

F1901 CHIP BEAD

DTF1067

CAPACITORSC1907
C1904
C1908
C1903, C1906
C1902, C1905CCSRCH101J50
CEAL101M10
CKSRYB102K50
CKSRYB103K50
CKSRYB104K25**RESISTORS**

All Resistors

RS1/16S###J

5	6	
Mark No.	Description	Part No.

6. ADJUSTMENT

There is no information to be shown in this chapter.

OTHERS

JA1902	OPT. LINK OUT 12MB/S	GP1FA513TZ
CN1901	10P CONNECTOR	VKN1186
KN1901	WRAPPING TERMINAL	VNF1084

U COMPONENT ASSY SEMICONDUCTORS

IC552		NJM2581M
IC551		TC74HC4053AF
D551, D552		1SS355

CAPACITORS

C551-C554		CEAT101M10
C555-C562, C566, C568		CKSRYB103K50

RESISTORS

All Resistors		RS1/16S###J
---------------	--	-------------

OTHERS

CN551	5P CONNECTOR	52045-0545
JA553	3P RCA PINJACK	AKB7124
JA551	6P RCA PINJACK	XKB3025

V FRONT VIDEO ASSY CAPACITORS

C901, C902, C915, C916		CCSRCH101J50
C903, C905		CEAL470M25
C908, C911, C914		CKSRYB103K50
C904, C906, C909, C912		CKSRYB104K25
C907, C910, C913		CKSRYB471K50

RESISTORS

All Resistors		RS1/16S###J
---------------	--	-------------

OTHERS

CN901	CONNECTOR	B8B-PH-K
KN951	WRAPPING TERMINAL	VNF1084
JA902	PIN JACK(4P)	XKX3003

W FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service part.

7. GENERAL INFORMATION

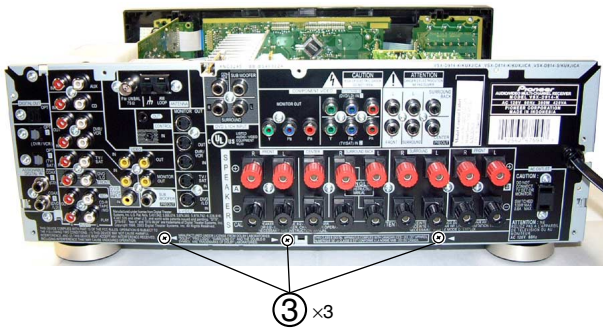
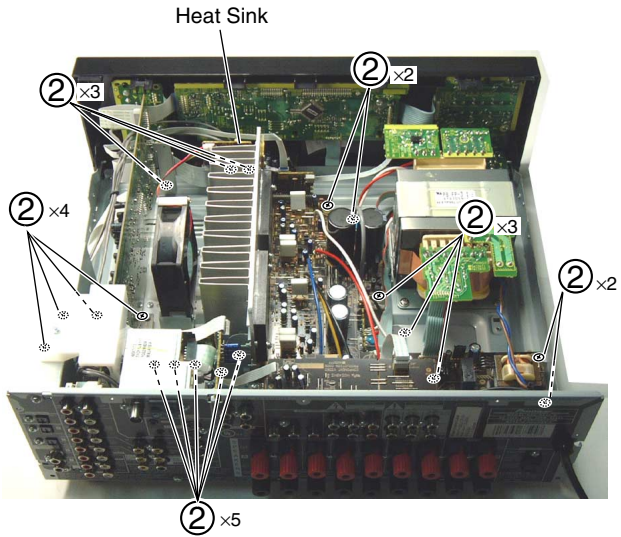
7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

■ Diagnosis

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

① Remove the top cover (seven screws).



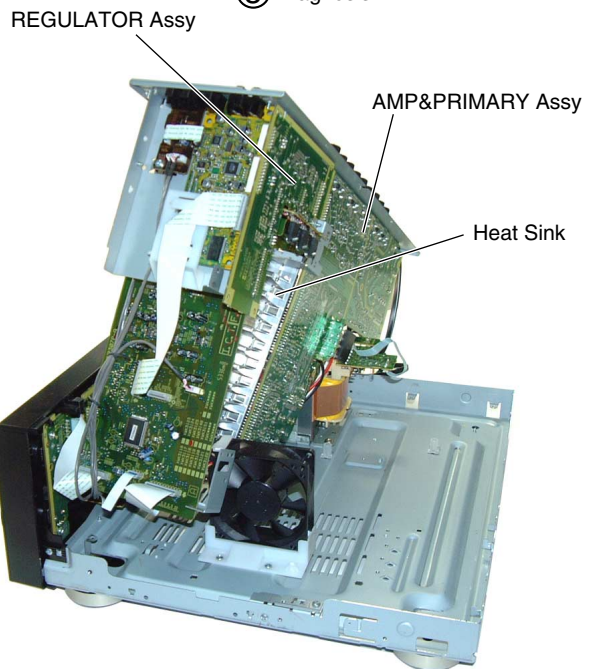
④ Pull up

Rear Panel

This photograph shows the rear panel of the receiver chassis being pulled up. An arrow indicates the direction of movement.



⑤ Diagnosis



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

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

7.2 PARTS

7.2.1 IC

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

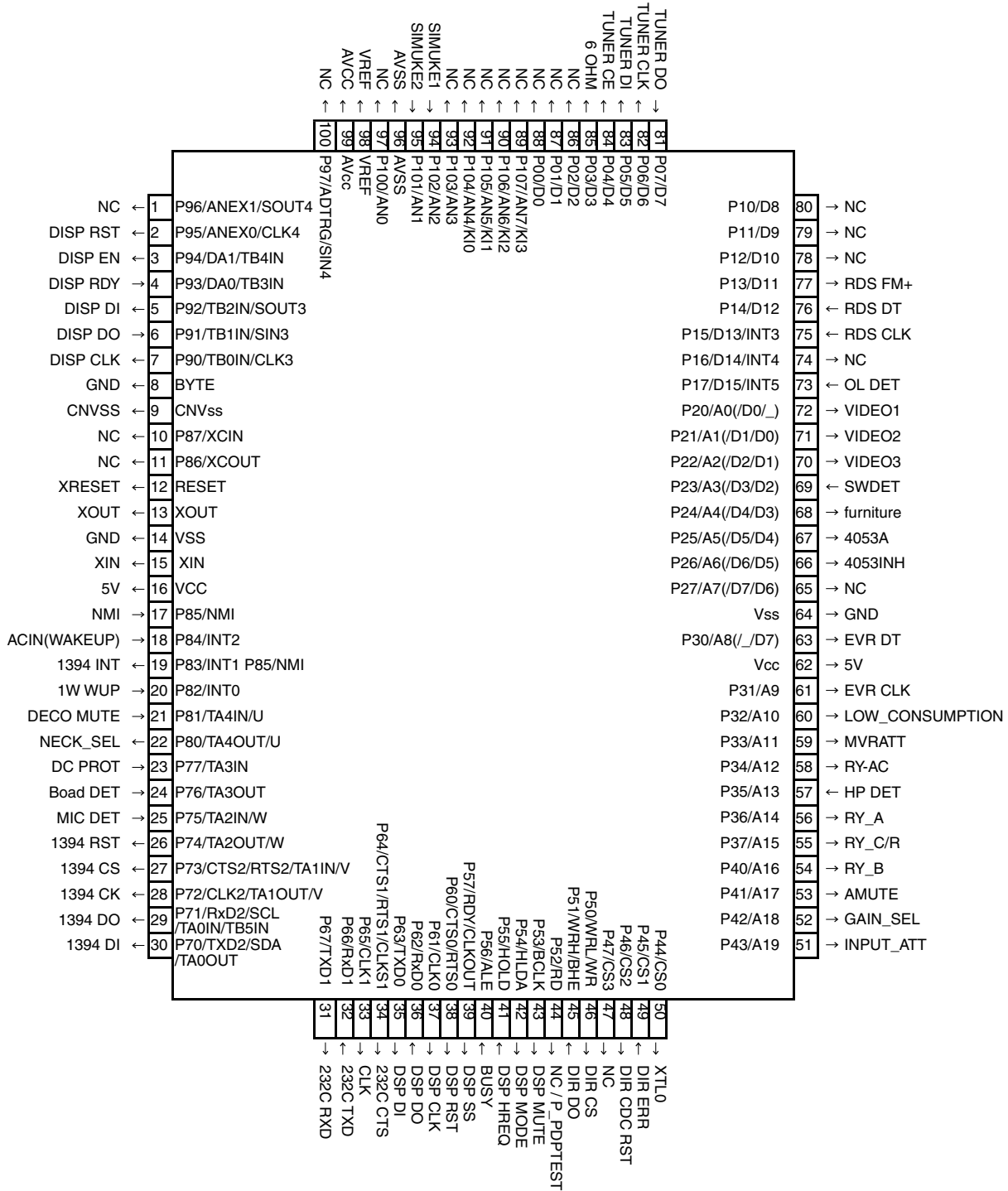
List of IC

PEG062A, PE5420A

PEG062A (MAIN ASSY : IC9001)

System Control MCU

Pin Arrangement (Top View)



• Pin Function

No.	Port	Pin Name	I/O	Pin Function
1	P96/ANEX1/SOUT4	NC	I/O	
2	P95/ANEX0/CLK4	DISP RST	I/O	Reset signal to display u-com
3	P94/DA1/TB4IN	DISP EN	I/O	Enable signal to display u-com
4	P93/DA0/TB3IN	DISP RDY	I/O	Ready signal from display u-com
5	P92/TB2IN/SOUT3	DISP DI	I/O	Data out to display u-com
6	P91/TB1IN/SIN3	DISP DO	I/O	Data input from display u-com
7	P90/TB0IN/CLK3	DISP CLK	I/O	Clock signal to display u-com
8	BYTE	GND		
9	CNVss	CNVSS		
10	P87/XCIN	NC	I/O	
11	P86/XCOUT	NC	I/O	
12	RESET	XRESET		
13	XOUT	XOUT		
14	VSS	GND		
15	XIN	XIN		
16	VCC	5V		
17	P85/NMI	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_PDPTST	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

A

No.	Port	Pin Name	I/O	Pin Function
51	P43/A19	INPUT_ATT	I/O	Analog input ATT(H : ATT ON)
52	P42/A18	GAIN_SEL	I/O	Gain select (5.1ch and Stereo of analog input : H)
53	P41/A17	AMUTE	I/O	System mute
54	P40/A16	RY_B	I/O	Speaker B relay ON/OFF
55	P37/A15	RY_C/R	I/O	Rear/Center Speaker relay ON/OFF
56	P36/A14	RY_A	I/O	Speaker A relay ON/OFF
57	P35/A13	HP DET	I/O	HP detect, H : detected
58	P34/A12	RY-AC	I/O	AC relay ON/OFF
59	P33/A11	MVRATT	I/O	ATT control of master volume (less than -15dB : L)
60	P32/A10	LOW_CONSUMPTION	I/O	If stop mode, port L, else H
61	P31/A9	EVR CLK	I/O	Clock signal for Function and E-volume
62	Vcc	5V		
63	P30/A8(/_D7)	EVR DT	I/O	Data signal for Function and E-volume
64	Vss	GND		
65	P27/A7(/D7/D6)	NC	I/O	
66	P26/A6(/D6/D5)	4053INH	I/O	Component terminal control
67	P25/A5(/D5/D4)	4053A	I/O	Component terminal control
68	P24/A4(/D4/D3)	furniture	I/O	Furniture control signal
69	P23/A3(/D3/D2)	SWDET	I/O	SWSP detect
70	P22/A2(/D2/D1)	VIDEO3	I/O	SWSP detect
71	P21/A1(/D1/D0)	VIDEO2	I/O	SWSP detect
72	P20/A0(/D0/_)	VIDEO1	I/O	NJM2296 control (VIDEO input select)
73	P17/D15/INT5	OL DET	I/O	Detect overload of AMP
74	P16/D14/INT4	NC	I/O	
75	P15/D13/INT3	RDS CLK	I/O	Clock input signal for RDS module
76	P14/D12 RDS	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
78	P12/D10	NC	I/O	
79	P11/D9	NC	I/O	
80	P10/D8	NC	I/O	
81	P07/D7	TUNER DO	I/O	Data input signal for tuner control
82	P06/D6	TUNER CLK	I/O	Clock signal for tuner control
83	P05/D5	TUNER DI	I/O	Data output signal for tuner control
84	P04/D4	TUNER CE	I/O	Chip select signal for tuner control
85	P03/D3	6 OHM	I/O	If stop mode, port L, else L/H depends on selection.
86	P02/D2	NC	I/O	
87	P01/D1	NC	I/O	
88	P00/D0	NC	I/O	
89	P107/AN7/K13	NC	I/O	
90	P106/AN6/K12	NC	I/O	
91	P105/AN5/K11	NC	I/O	
92	P104/AN4/K10	NC	I/O	
93	P103/AN3	NC	I/O	
94	P102/AN2	SIMUKE1	I/O	Input 1 to switch region
95	P101/AN1	SIMUKE2	I/O	Input 2 to switch region
96	AVSS	AVSS		Connect to VSS
97	P100/AN0	NC	I/O	
98	VREF	VREF		Connect to VCC
99	AVcc	AVCC		Connect to VCC
100	P97/ADTRG/SIN4	NC	I/O	

B

C

D

E

F

• Pin Function

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

• Pin Function

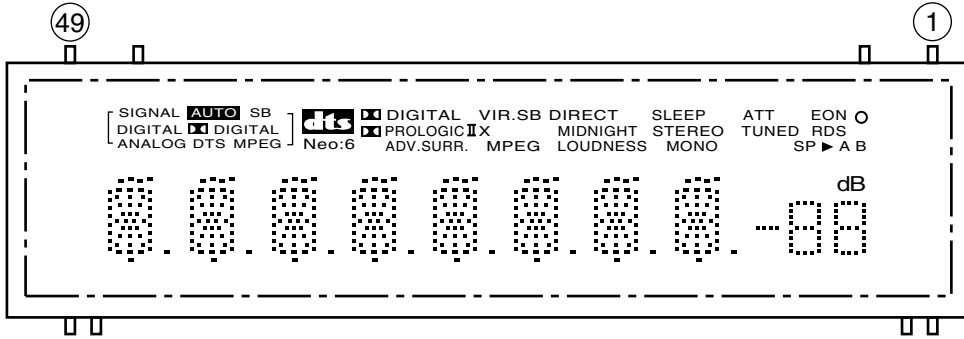
No.	Port	Pin Name	I/O	Pin Function
41	FIP37/P45	FUNC CD-R/TAPE	I/O	LED Output
42	FIP36/P44	FUNC CD	I/O	LED Output
42	FIP35/P43	FUNC DVD/LD	I/O	LED Output
44	FIP34/P42	FUNC TV/SAT	I/O	LED Output
45	FIP33/P41	FUNC DVR/VCR	I/O	LED Output
46	FIP32/P40	FUNC VIDEO	I/O	LED Output
47	FIP31/P37	S22	I/O	Display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

7.2.2 DISPLAY

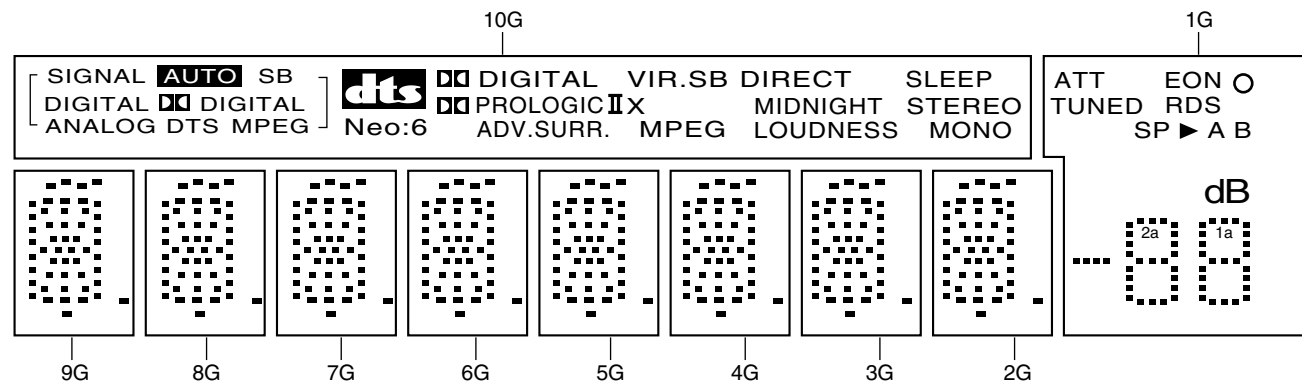
XAV3022 (FRONT ASSY : V401)

• FL DISPLAY

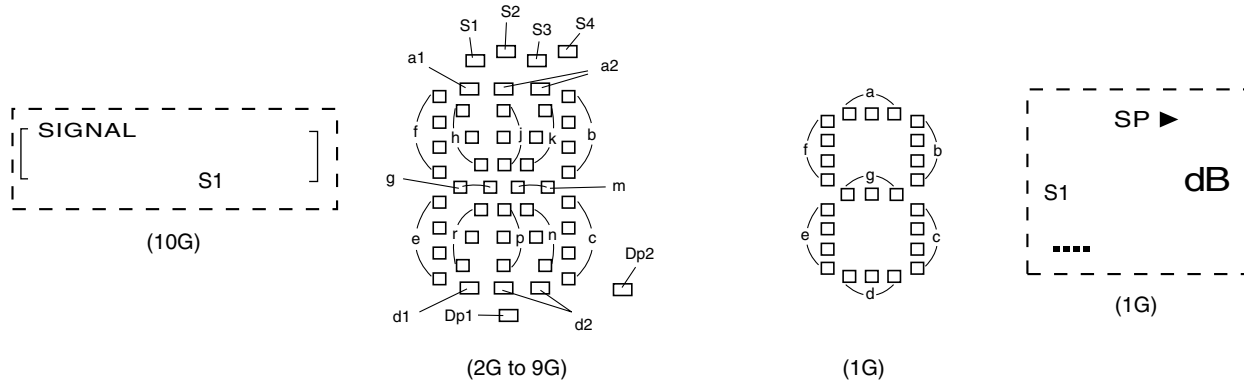
• Pin Assignment



• Grid Assignment



• Segment Designation



• Pin Connection

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

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

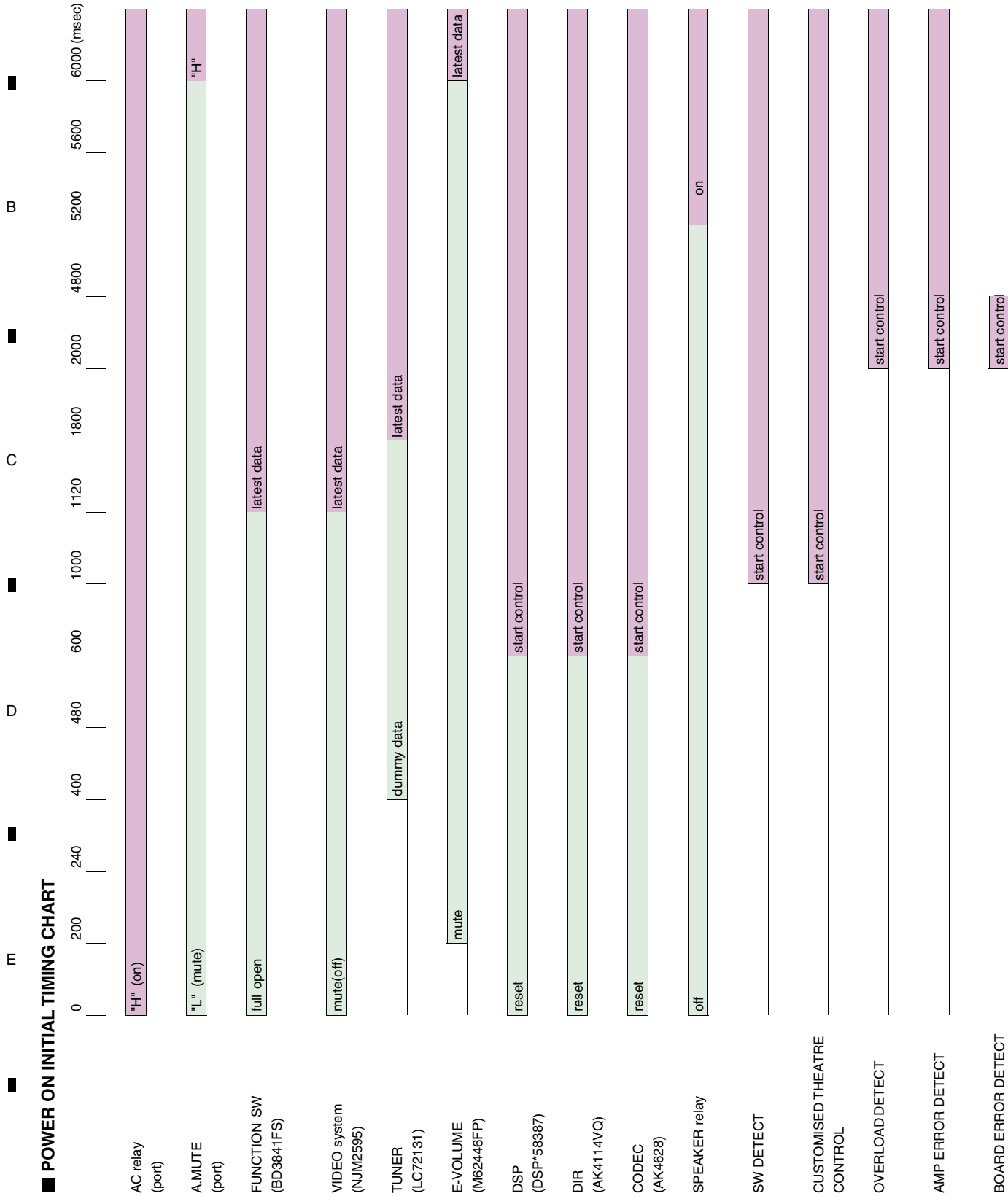
• Anode Connection

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

7.3 EXPLANATION

7.3.1 POWER ON AND OFF INITIAL TIMING CHART

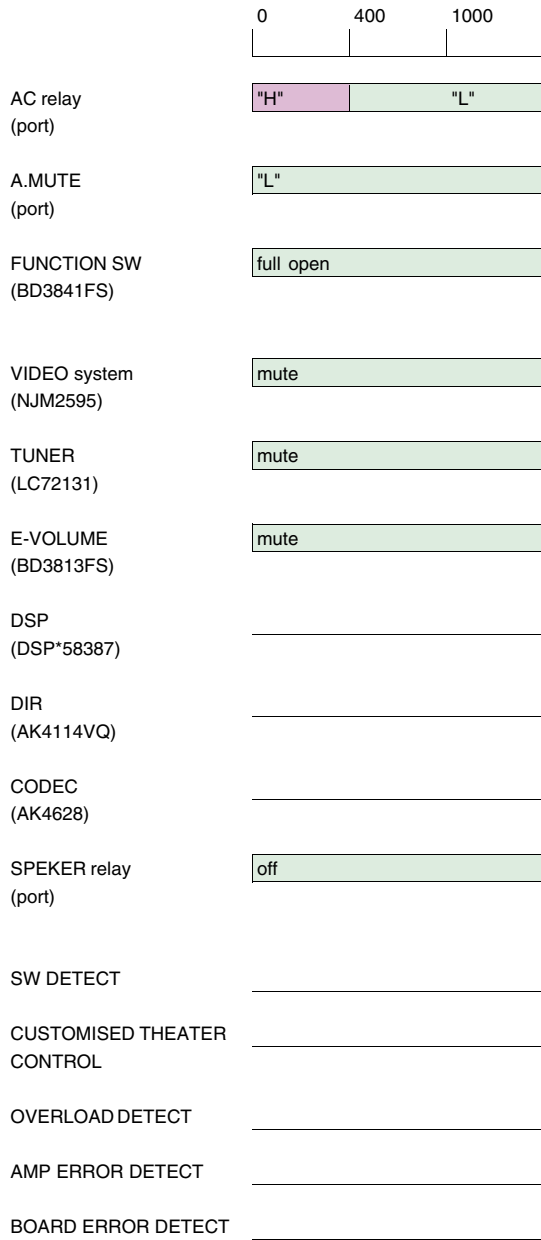
A



F

■ POWER OFF INITIAL TIMING CHART

A



B

C

D

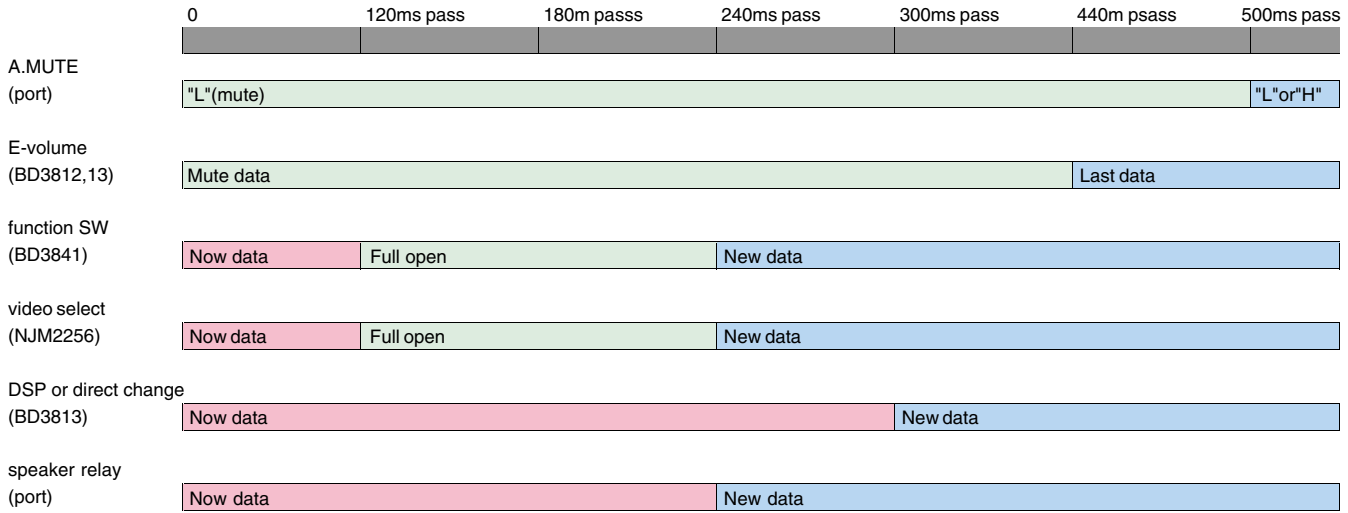
E

F

7.3.2 IC DATA TRANSMISSION TIMING CHART

A IC data transmission timing chart

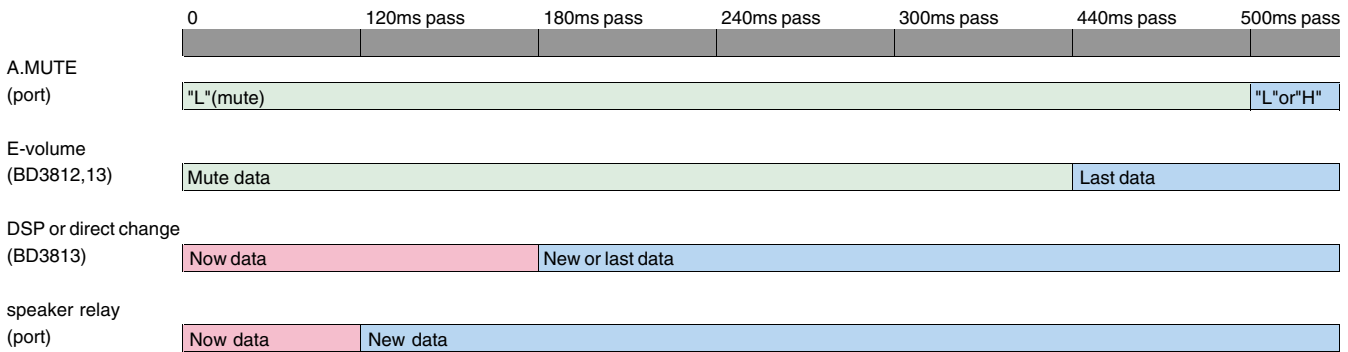
1. When function change



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

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

2. When except function change

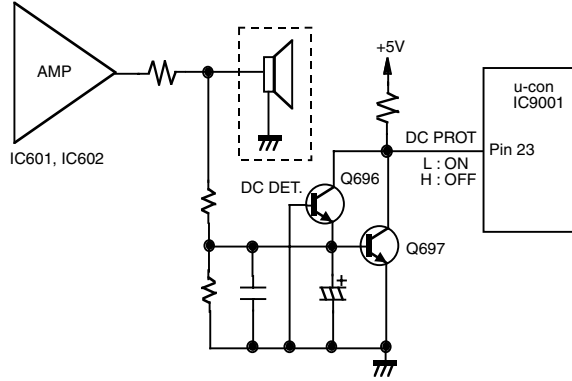


condition of mute cancel (system mute & E-volume mute)

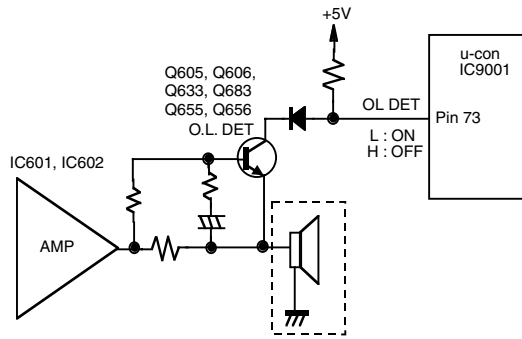
- 1) when tuner mute during Tuner function
- 2) when communicate to DSP
- 3) when initial processing
- 4) when detect trouble of AMP DC
- 5) when detect overload of AMP
- 6) when Power off
- 7) when muting by key input

7.3.3 DETECTION CIRCUIT

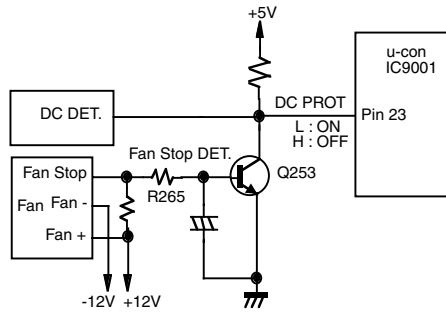
1. DC Detection Circuit Diagram:



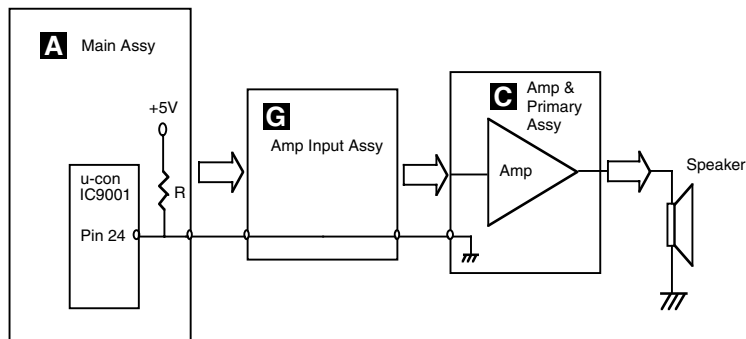
2. Overload Detection Circuit Diagram:



3. Fan Stop Protection Circuit Diagram:



4. PCB Board Protection Circuit Diagram

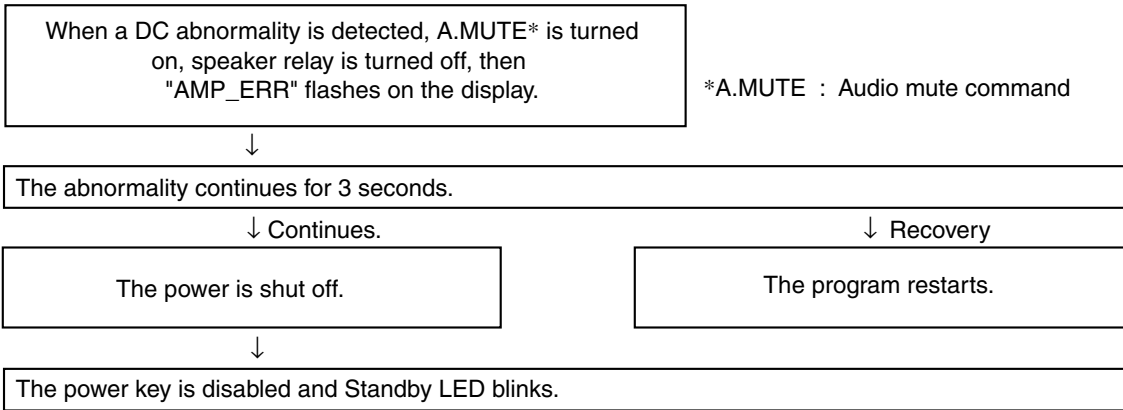


7.3.4 AMPLIFIER SYSTEM PROTECTION OPERATION SPECIFICATION

1. DC-abnormality detection

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.



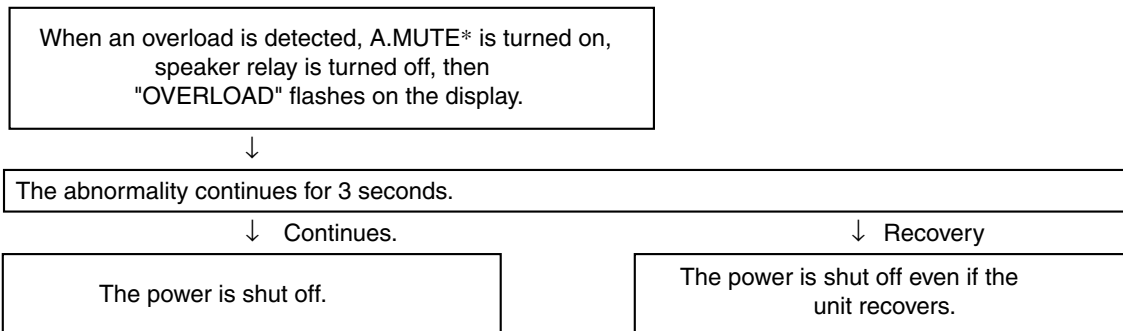
*A.MUTE : Audio mute command

But be switched on with the following methods.

- ① TESTMODE ON (A55F+A55F)
- ② When power off, push FRONT ENTER key + ADVANCED SURROUND key continuously 2sec.
(②: When a DC abnormality is detected and the power is shut off.)

2. Overload detection

If the speaker terminals are short-circuited or low-load driving is detected, the OL_DET port becomes "L".
If the "L" is detected, the microprocessor will perform as following flow chart.



3. Board detection

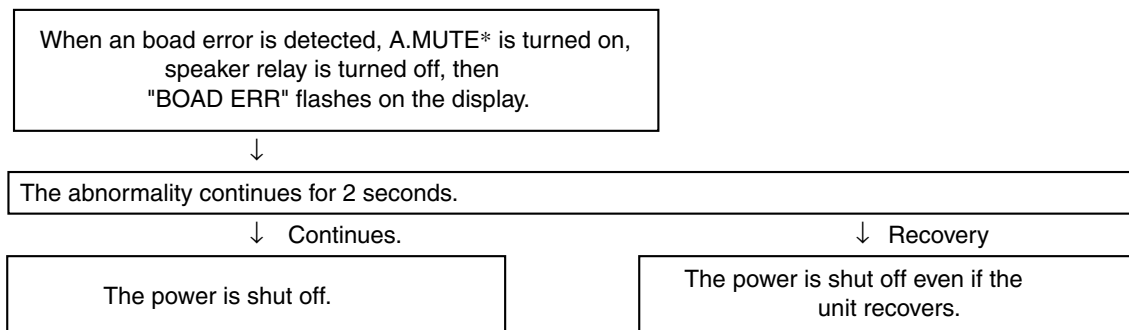
Board detection is only enabled 2 seconds after power-on.

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.

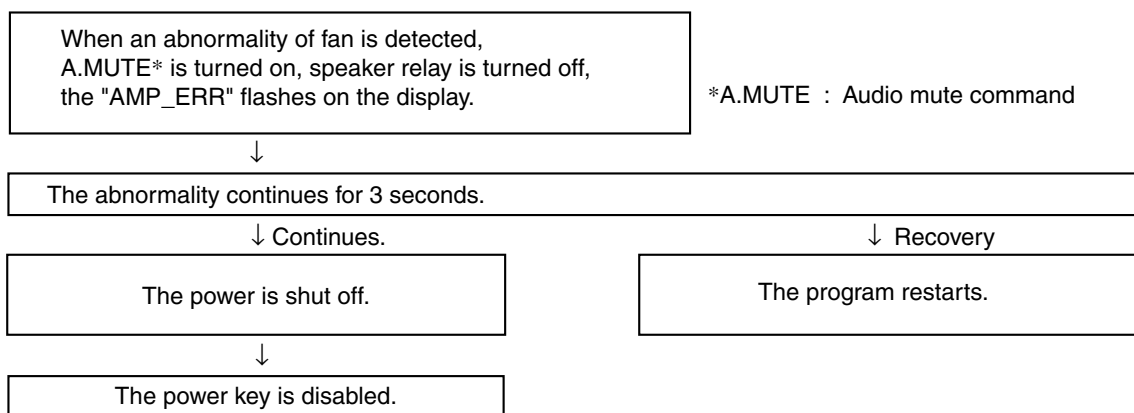
In the case of simultaneous detection with the overload protection circuit,

Board detection is performed preferentially to DC-abnormality detection and Overload detection.



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

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



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

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

7.3.5 AMPLIFIER FAILURE DIAGNOSIS FLOW CHART

■ Amplifier failure diagnosis flow chart

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.

C

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

■

7.4 CLEANING

E



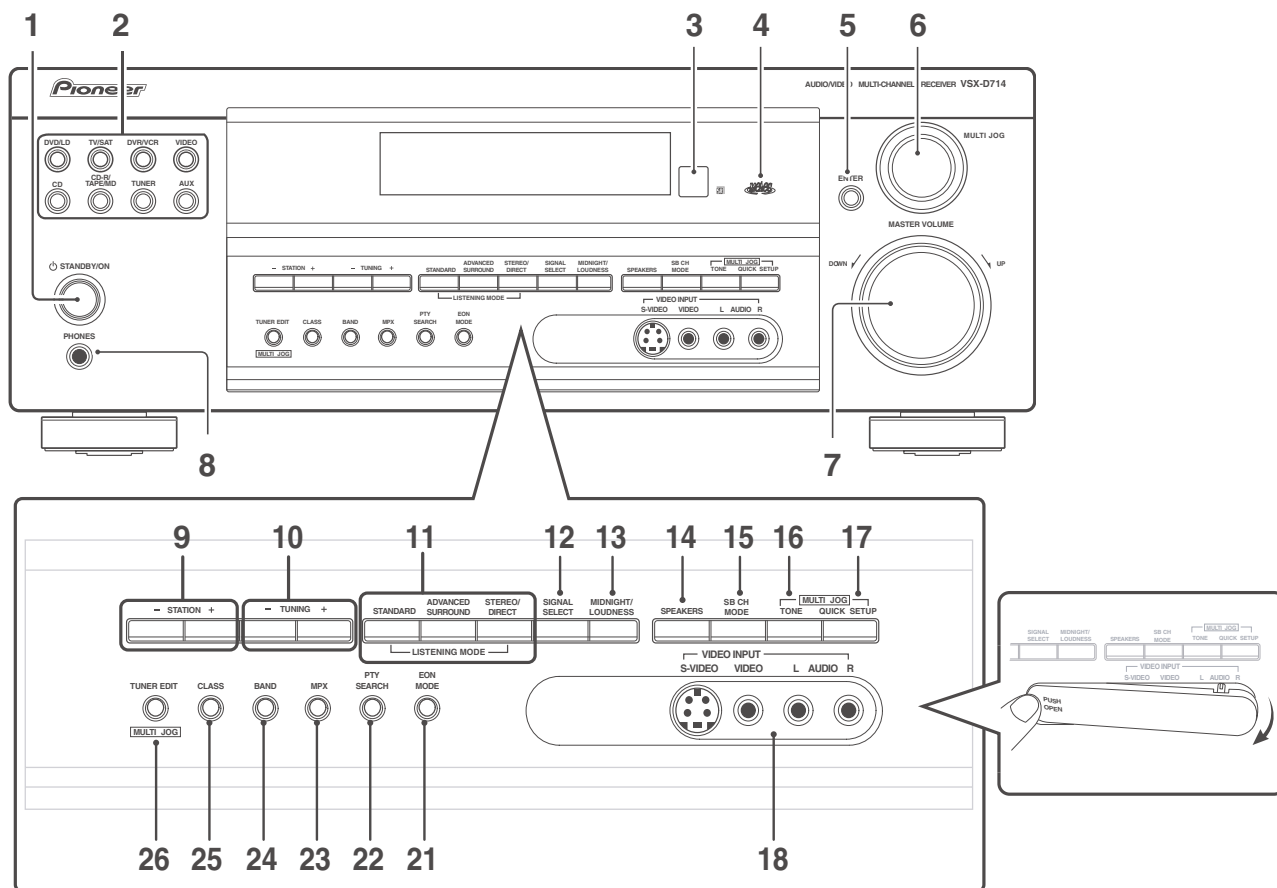
Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

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

F

8. PANEL FACILITIES

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 JOG dial**
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.

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*.

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.

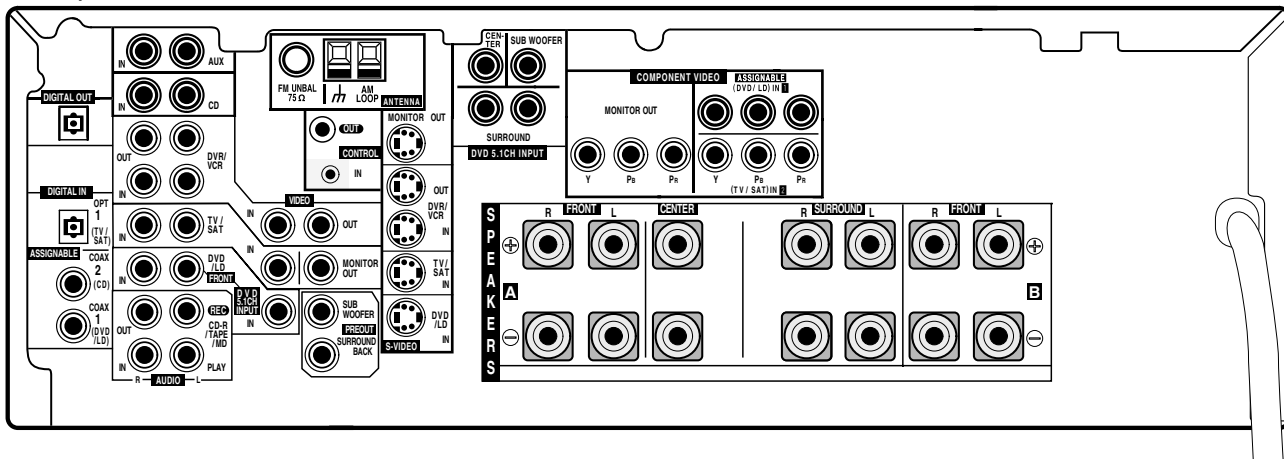
25 CLASS

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

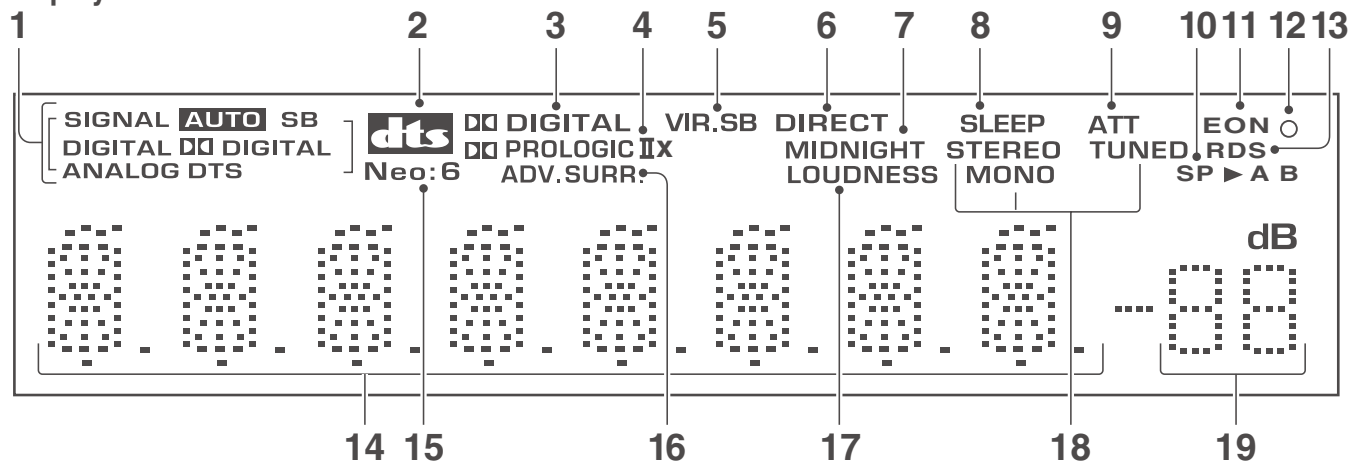
26 TUNER EDIT

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.

DIGITAL

Lights when a Dolby Digital encoded signal is detected.

ANALOG

Lights when an analog signal is detected.

DTS

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

2 dts

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

3 DIGITAL

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

4 PRO LOGIC II(x)

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

5 VIR.SB

Lights during Virtual surround back processing.

6 DIRECT

Lights when source direct playback is 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 TUNER indicators**STEREO**

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

MONO

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

TUNED

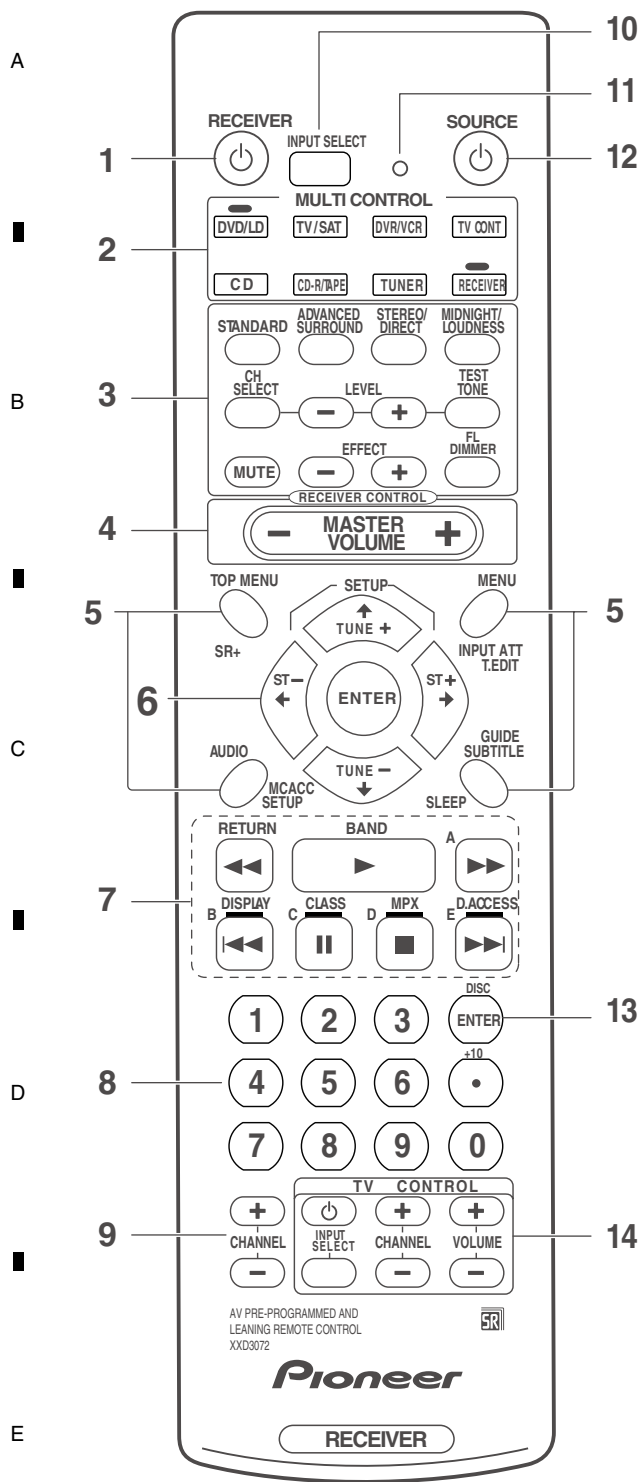
Lights when a broadcast is being received.

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.

Remote control



1 RECEIVER

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.

AV PRE-PROGRAMMED AND LEARNING REMOTE CONTROL
XXD3072

Pioneer

RECEIVER

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 CONTMULTI 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 +/-

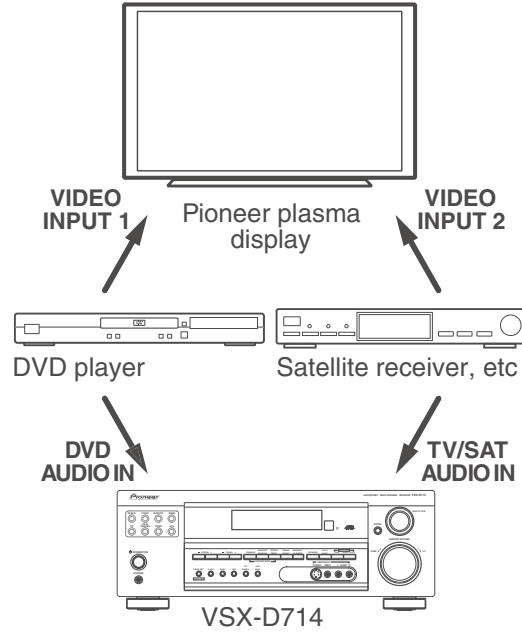
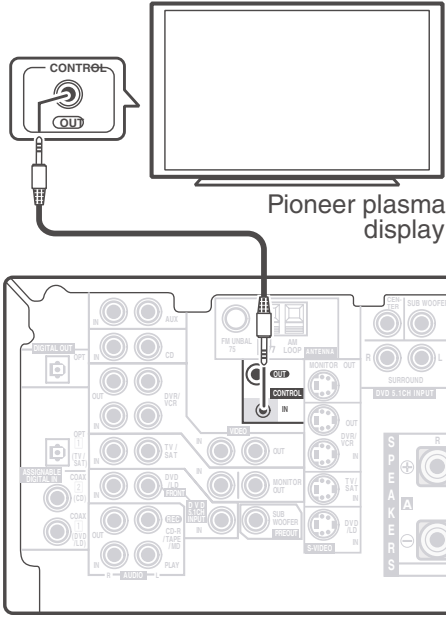
Use to adjust the volume on your TV.

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.

- 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.



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.

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

