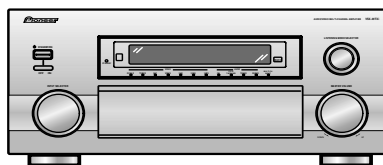


Service Manual



VSX-49TXi

ORDER NO.
RRV2644

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-49TXi

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

Model	Type	Power Requirement	Remarks
VSX-49TXi	KU/CA	AC120V	



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

SAFETY INFORMATION



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

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

WARNING

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

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

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

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

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

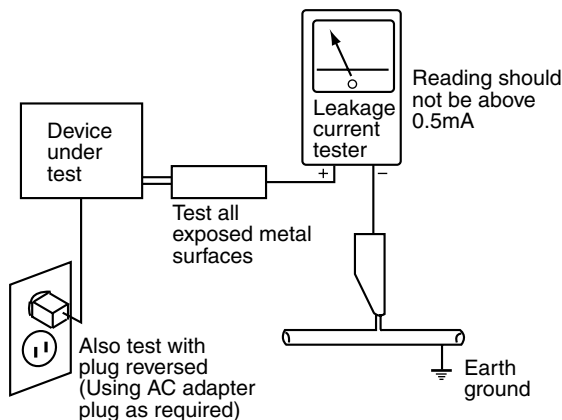
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

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



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 Δ on the schematics and on the parts list in this Service Manual.

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

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

[Important symbols for good services]

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

1. Product safety



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

2. Adjustments



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

3. Cleaning



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

4. Shipping mode and shipping screws



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

5. Lubricants, glues, and replacement parts



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

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1. SPECIFICATIONS

Amplifier Section

Continuous average power output of 160 watts* per channel, min., at 6 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

Continuous Power Output (6 Ω)

Front 160 W + 160 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
Center 160 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
Surround 160 W + 160 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
Surr. back 160 W + 160 W (20 Hz-20 kHz, 0.09 %, 6 Ω)

Continuous Power Output (8 Ω)

Front 130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Center 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Surround 130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Surr. back 130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)

Audio Section

Input (Sensitivity/Impedance)

PHONO MM 4.7 mV/47 k Ω
LINE 382 mV/47 k Ω

Phono Overload level (T.H.D.0.1 %, 1 kHz)

PHONO MM 120 mV

Frequency Response

PHONO MM 20 Hz to 20,000 Hz $\pm$ 0.3 dB
LINE 5 Hz to 100,000 Hz $\pm$ 0.3 dB

Output (Level/Impedance)

LINE 382 mV/2.2 k Ω

Tone Control

BASS $\pm$ 6 dB (100 Hz)
TREBLE $\pm$ 6 dB (10 kHz)
LOUDNESS +4/+2 dB (100Hz/10 kHz)
(at volume position -40dB)

Signal-to-Noise Ratio (IHF, short circuited, A network)

PHONO MM 86 dB
LINE 105 dB

Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]

PHONO MM 83 dB
LINE 93 dB

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

** Measured by Audio Spectrum Analyzer.

Maintenance of External Surfaces

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are 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 cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

Video Section

Input (Sensitivity) 1 V_{p-p}/75 Ω
Output (Level/Impedance) 1 V_{p-p}/75 Ω
Signal-to-Noise Ratio 70 dB
Frequency Response 5 Hz to 10 MHz $\pm$ 0.3 dB

Component Video Section

Input (Sensitivity) 1 V_{p-p}/75 Ω
Output (Level/Impedance) 1 V_{p-p}/75 Ω
Signal-to-Noise Ratio 70 dB
Frequency Response 5 Hz to 40 MHz $\pm$ 0.3 dB

FM Tuner Section

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

AM Tuner Section

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

Miscellaneous

Power Requirements AC 120 V, 60 Hz
Power Consumption 720 W, 965 VA
Power Consumption in Standby mode 0.65 W
AC Outlet
SWITCHED 100 W (0.8 A) MAX
Dimensions 440 (W) $\times$ 203 (H) $\times$ 476 (D) mm
(17-⁵/₁₆ (W) $\times$ 8 (H) $\times$ 18-³/₄ (D) in.)
Weight (without package) 29.3 kg (64 lb 6 oz)

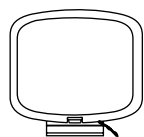
Furnished Parts

FM wire Antenna 1
AM Loop Antenna 1
"AA" IEC LR6 batteries 4
Remote Control Unit 1
Touch Pen 1
Cushion for Remote 4
Microphone 1
U-shaped connectors 2
Operating Instructions 1

NOTE:

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

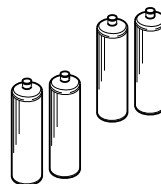
Accessories



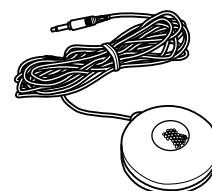
AM loop antenna
(ATB7009)



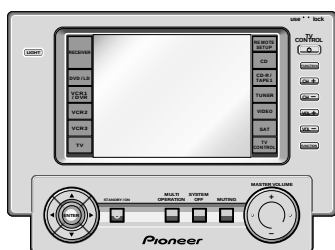
FM wire antenna
(ADH7010)



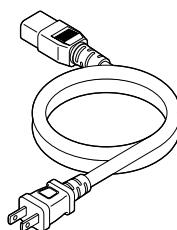
AA size IEC LR6
batteries (x4)



Microphone
(APM7003)



Remote control unit
(AXD7295)



AC power cord
(ADG7061)



Touch pen
(AZA7350)

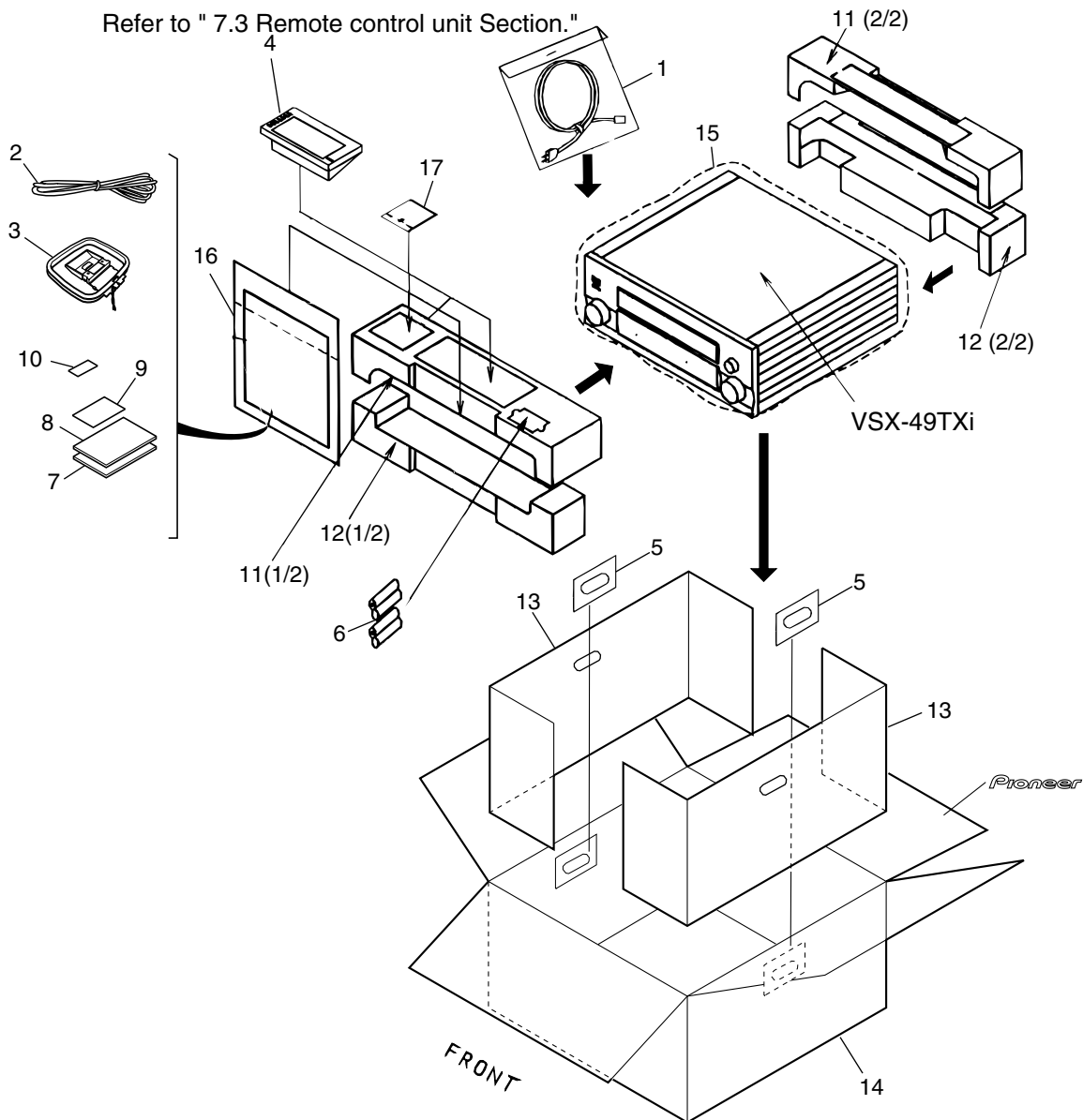


Cushion for Remote x4
(AEB7167)

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 parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
⚠ 1	Power Cord	ADG7061
2	FM Wire Antenna	ADH7010
3	AM Loop Antenna	ATB7009
4	Remote Control Unit AX10KU	AXD7295
5	Handle Cover	AHX7034
6	Alkaline Dry Cell Battery (LR6, AA)	VEM1021
7	Operating Instructions (English)	ARB7268
8	Caution Sheet SP, E	ARM7056
NSP 9	Warranty Card EL	ARY1026
10	Cushion for Remote	AEB7167
11	Top Pad	AHA7362
12	Bottom Pad	AHA7363
13	Spacer	AHB7057
14	Packing Case	AHD8122
15	Packing Sheet	DHL1022
NSP 16	Polyethylene Bag (0.03 x 230 x 340)	Z21-038
17	Microphone	APM7003

2.2 EXTERIOR SECTION

A

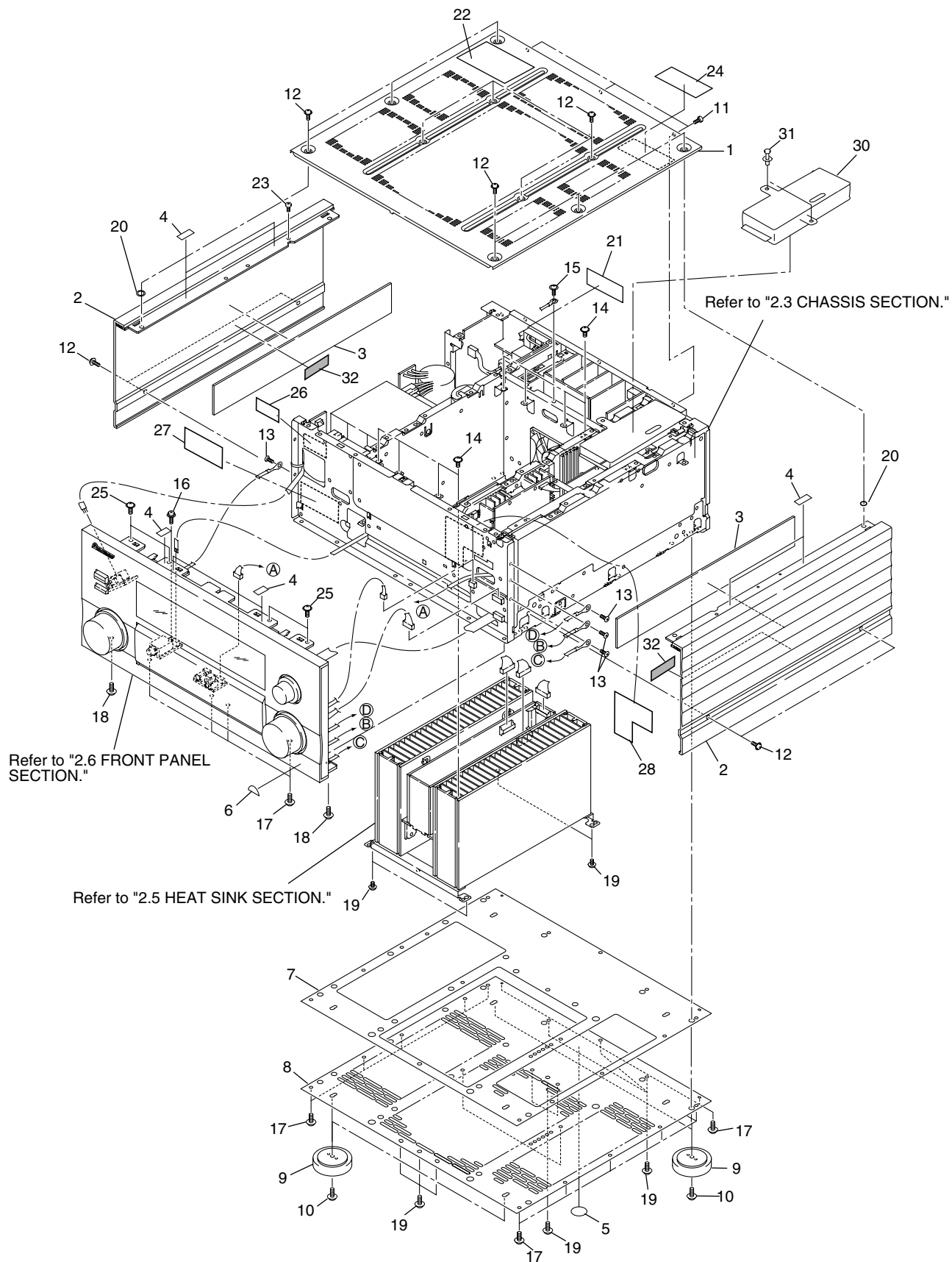
B

C

D

E

F

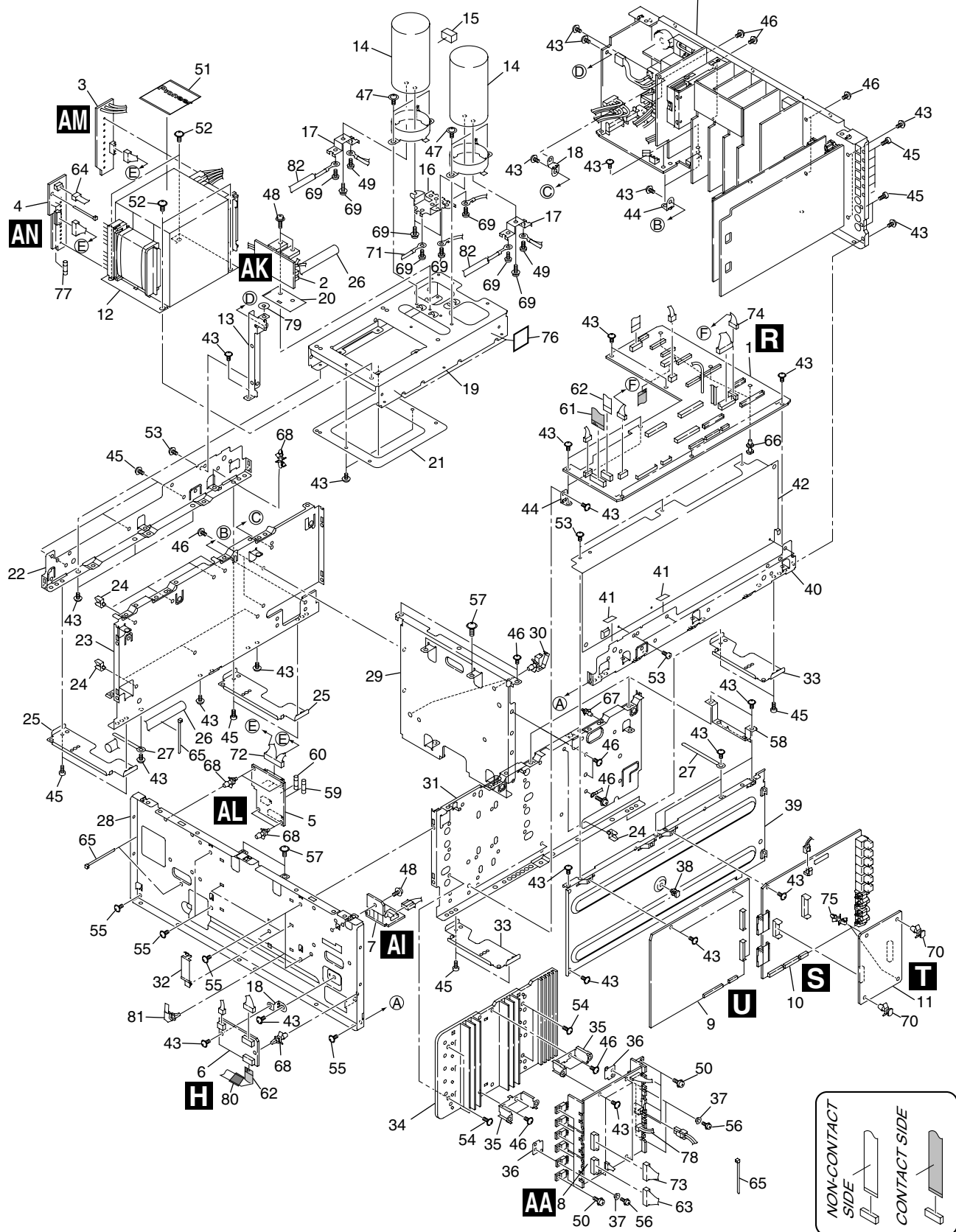


EXTERIOR SECTION parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
NSP 1	Top Plate BK	ANE7298
2	Side Alum BK	AAH7095
NSP 3	Side Panel Sheet	AMR7284
NSP 4	Tape	PNM1249
5	UL Caution Card	AAX-313
NSP 6	Energystar Label	AAX7876
NSP 7	Bottom Plate B	ANF7030
NSP 8	Bottom Plate A Cu	ANF7029
9	Insulator Assy	VXA2368
10	Screw	ABA1054
11	Screw	BBT30P060FCC
12	Screw	FBT40P080FZK
13	Screw	ABA7079
14	Screw	RBA1099
15	Screw	VBA1056
16	Screw	ABA1011
17	Screw	ABA1050
18	Screw	ABA1193
19	Screw	IBZ30P090FCC
20	Washer	VEC1254
NSP 21	Label	VRW162
22	License Label	ARW7194
23	Screw	BBZ30P080FCC
24	65 Label	ARW7050
25	Screw	BBT30P100FCC
NSP 26	ICP Caution Label	ARW7151
NSP 27	Fuse Caution Label	ARW7175
NSP 28	ICP Caution Label	ARW7150
29	Binder	ZCA-BK1
30	1394Module	AXQ7243
31	Nylon Rivet	AEC-525
32	Side Panel Sheet B	AMR7414

2.3 CHASSIS SECTION

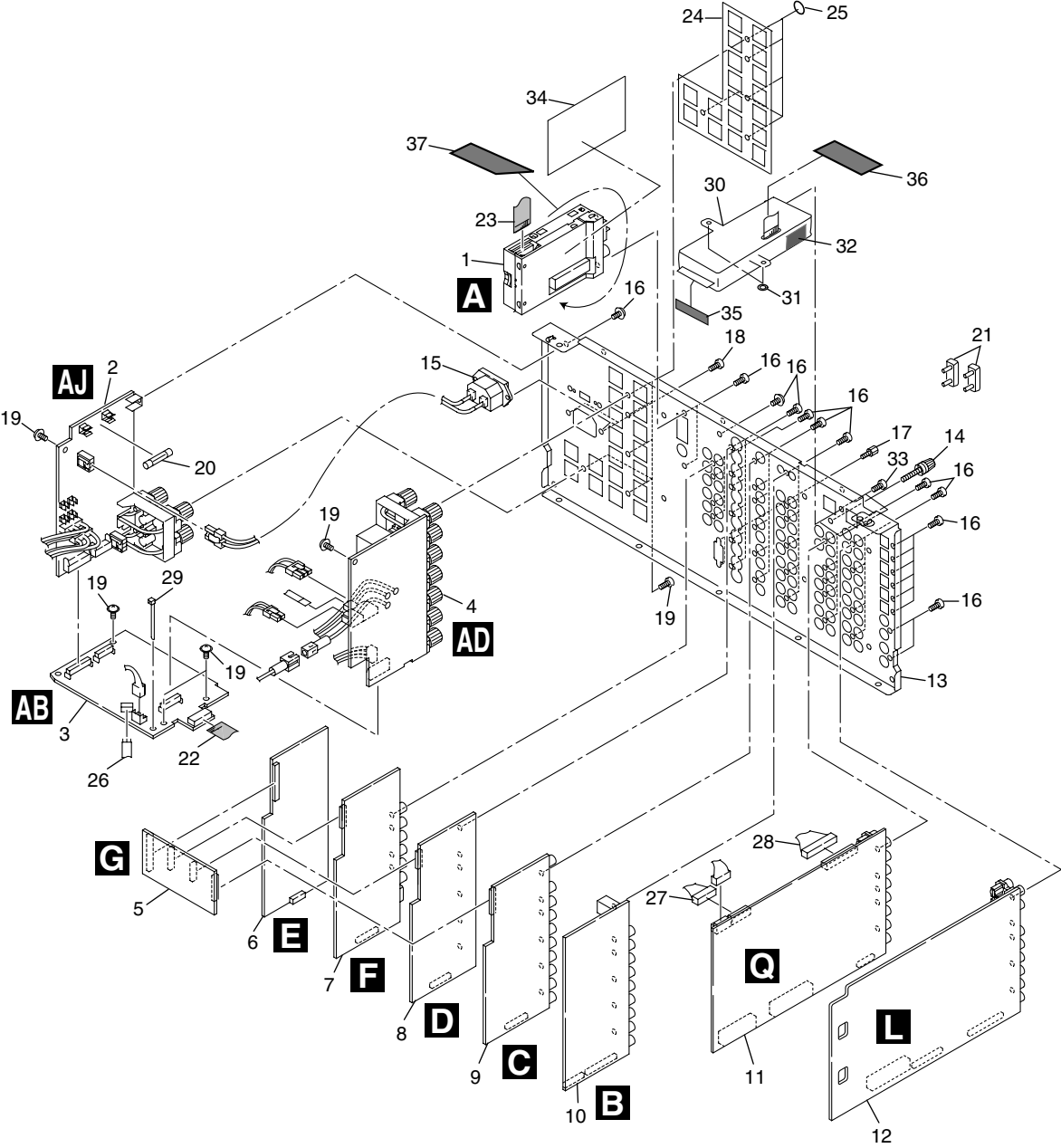
Refer to "2.4 REAR PANEL SECTION".



CHASSIS SECTION parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.	
1	MOTHER Assy	AWX8142	51	Trans Label	AAX7897	A
2	DIODE Assy	AWX7841	52	Screw	ABA1014	
3	TRANS (A) Assy	AWX7838	53	Screw	BBT30P060FCC	
4	TRANS (B) Assy	AWX8057	54	Screw	ABA1050	
5	FUSE Assy	AWX7843	55	Screw	ABA1192	
6	MIC AMP Assy	AWX7872	56	Screw	ABA7084	
7	DSP DIODE Assy	AWX7958	57	Screw	RBA1099	
8	LOCAL SUPPLY Assy	AWX7887	NSP 58	PCB Frame B	ANG7386	
9	DAC10 Assy	AWK7725	⚠ 59	Fuse (FU4, 4A)	VEK1023	
10	DSP Assy	AWK7762	⚠ 60	Fuse (FU5-FU8, 2A)	VEK1019	B
11	DSP3 Assy	AWK7727	61	J29 FFC (17P) (Mother CN5807-DISPLAY CN3001)	ADD7329	
⚠ 12	Power Transformer (T1)	ATS7320	62	J30 FFC (11P) (Mother CN5806-MIC AMP CN3207)	ADD7330	
NSP 13	PCB Holder B	ANG7388	63	J16 8P Connector Assy (Local Supply CN4001-FUSE CN1802)	ADX7379	
14	Capacitor (C1, C2)	ACH7164	64	J17 3P Connector Assy (Local Supply CN4002-TRANS(B) CN1701)	ADX7380	
15	Rubber Spacer	AEB7244	NSP 65	Binder	ZCA-BK1	
NSP 16	Earth Plate	ANG7381	NSP 66	Card Spacer	REC1156	C
NSP 17	Joint Plate	ANG7382	67	PCB Holder	PNW2100	
NSP 18	PCB Base	RNE1849	68	Locking Card Spacer	VEC2234	
19	Trans Frame	ANA7142	69	Screw	ABA7017	
20	Radiation Sheet	AEE7043	70	PC Support	DEC1772	
NSP 21	Trans Stabilizer	ANG7378	71	Oval head Terminal wire	ADX7366	
NSP 22	Side Frame L	AWA7133	72	J1601 5P,7P Parallel wire	ADX7385	
NSP 23	Side Wall L	AND7041	73	J5805 9P Connector Assy (Local Supply CN4004-Mother CN5805)	ADX7378	
NSP 24	Wire Clip (A)	VEC1355	74	5802 Crimp Connector Assy (Mother CN5827-Mother CN5828)	PF06PP-R27	D
NSP 25	Insulator Frame B	ANG7377	75	PCB Spacer	VEC1508	
26	Glass Tube	ADN7006	NSP 76	Trans Frame Spacer	AEC7400	
27	Cord Holder	RNH1005	⚠ 77	Fuse (FU9-FU10, 1A)	VEK1014	
28	Panel Stay	AND7045	78	J4001 2P Connector Assy (Local supply CN4005-DSP CN704)	ADX7407	
NSP 29	Fan Holder B	ANG7373	79	Washer	ABE-053	
NSP 30	Wire Saddle	DEC1450	80	Acetate tape	AEH7017	
NSP 31	Side Wall R	AND7043	81	Clamp	DEC1759	E
NSP 32	Flat Cable Clamp	AEC7376	82	Glass Tube(6x95)	ADN7010	
NSP 33	Insulator Frame A	ANG7376				
34	Sub Heat Sink	ANH7154				
NSP 35	PCB Holder D	ANG7392				
36	Mica Sheet S	AEE7042				
37	Bushing 26	AEC7128				
NSP 38	PCB Spacer	AEC7156				
NSP 39	Shield Case A	ANK7093				
NSP 40	Side Frame R	ANA7135				
NSP 41	Tape	PNM1249				
NSP 42	Shield Case B	ANK7107				
43	Screw	ABA1011				
NSP 44	PCB Holder C	ANG7389				
45	Screw	BBZ30P080FCC				
46	Screw	IBP30P090FCC				
47	Screw	VBA1056				F
48	Screw	ABA1054				
49	Screw	ABA1082				
50	Screw	ABA7076				

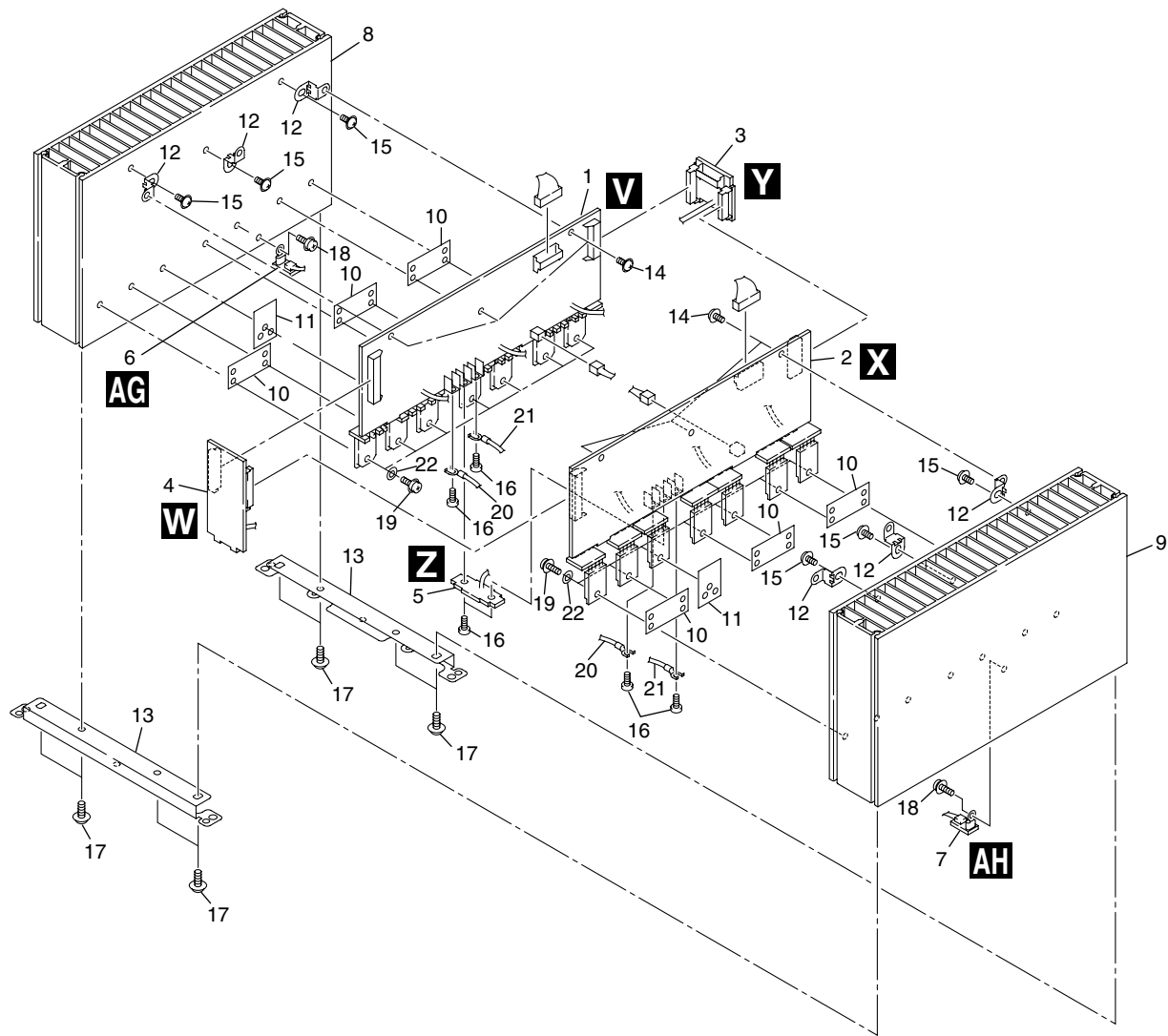
2.4 REAR PANEL SECTION



REAR PANEL SECTION parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	FM/AM Tuner Module	AXQ7237
2	SP (B) Assy	AWX8151
3	AC PRIMARY Assy	AWX7834
4	SP (A) Assy	AWX8148
5	VIDEO CONNECT Assy	AWX7876
6	V-CONVERT Assy	AWX8160
7	COMPONENT Assy	AWX7953
8	S-VIDEO Assy	AWX8159
9	COMPOSITE Assy	AWX7942
10	A/V I/O Assy	AWX7938
11	VR & PRE OUT Assy	AWX7888
12	ANALOG IN & A/D Assy	AWX7878
13	Rear Panel	ANC8139
14	Screw with Terminal	AKE-031
15	AC Inlet Assy	ADX7395
16	Screw	BBZ30P080FCC
17	Hexagonal Screw	ABA7078
18	Screw	ABA1193
19	Screw	ABA1011
⚠ 20	Fuse (FU1, 12A/125V)	AEK-306
21	Short Pin Plug	AKM7005
22	J23 FFC (14P) (SP(A) CN1104-Mother CN5801)	ADD7334
23	J22 FFC (13P) (Yuner CN2705-Mother CN5802)	ADD7333
24	Speaker Sheet 49	AAK7959
25	Cushion Circle	AED7052
26	J101 3P Connector Assy (AC Primary CN1105-Power SW CN1301)	D20PYY0365E
27	J5001 8P Connector Assy (VR OUT CN5005 - Power AMP(BR) CN4811)	ADX7382
28	J5002 14P Connector Assy (VR OUT CN5006 - Power AMP(L) CN4801 and Power AMP(R) CN4802)	ADX7381
29	Binder	ZCA-BK1
30	1394 Module	AXQ7243
31	Fiber washer	RBF1045
32	Tape	AEH7015
33	Screw	BCZ30P060FCC
34	Shield plate	AMR7445
35	Acetate tape	AEH7018
36	Shield cushion	AEB7274
37	Acetate tape	ZTA-156A-19

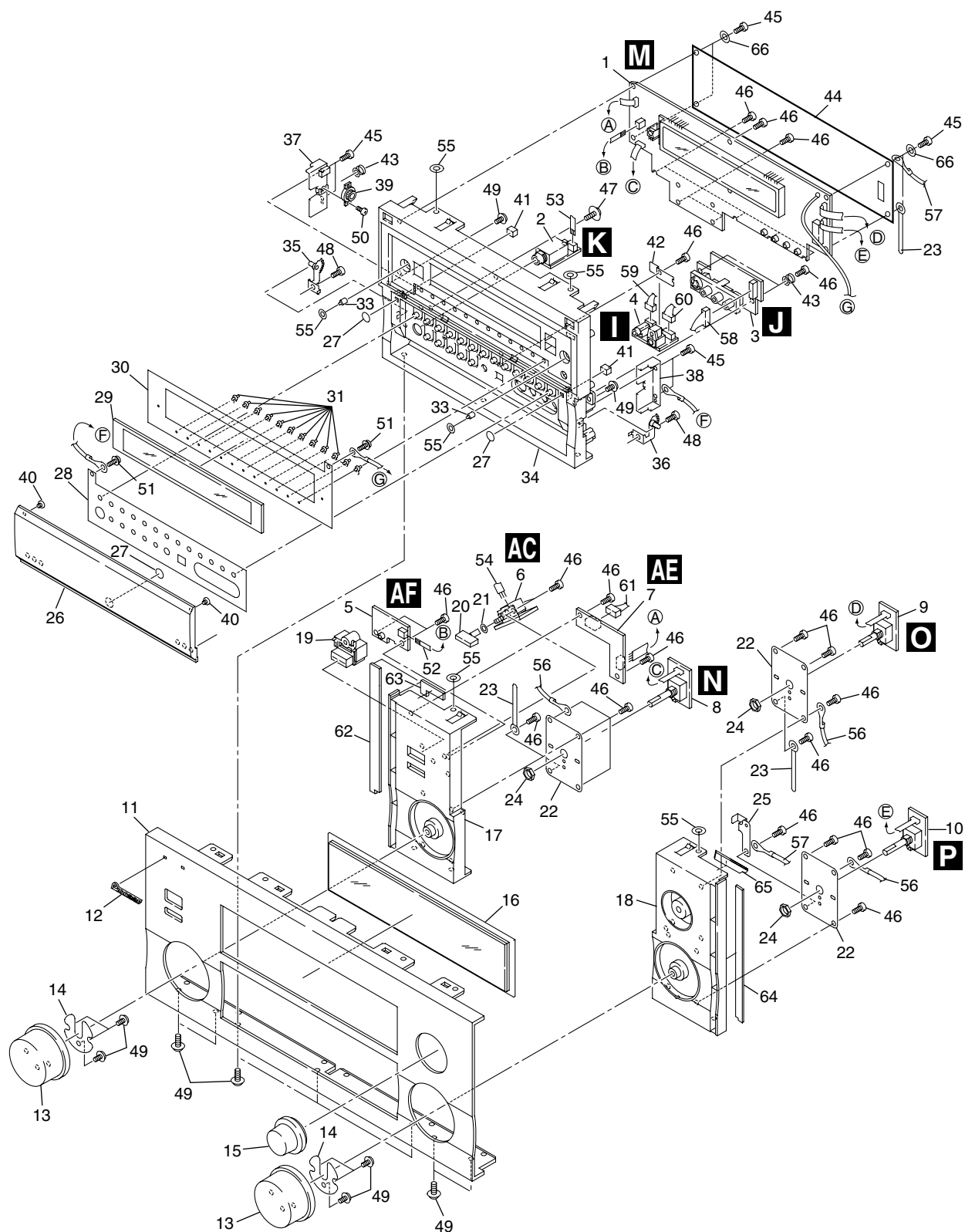
2.5 HEAT SINK SECTION



HEAT SINK SECTION parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	POWER AMP (L) Assy	AWX7882
2	POWER AMP (R) Assy	AWX7883
3	POWER AMP (BR) Assy	AWX7885
4	POWER AMP (C) Assy	AWX7884
5	POWER AMP (G) Assy	AWX7886
6	POSISTER (L) Assy	AWX7844
7	POSISTER (R) Assy	AWX7846
8	Heat Sink L	ANH7148
9	Heat Sink R	ANH7162
10	Mica Sheet L	AEE7048
11	Mica Sheet M	AEE7046
NSP 12	PCB Holder A	ANG7387
NSP 13	Heat Sink Holder	ANG7375
14	Screw	ABA1011
15	Screw	IBP30P090FCC
16	Screw	BMZ30P060FCU
17	Screw	RBA1099
18	Screw	ABA7076
19	Screw	ABA7083
20	Over head Terminal wire(RED)	ADX7383
21	Over head Terminal wire(BLUE)	ADX7384
22	Washer	WA32F100M050

2.6 FRONT PANEL SECTION

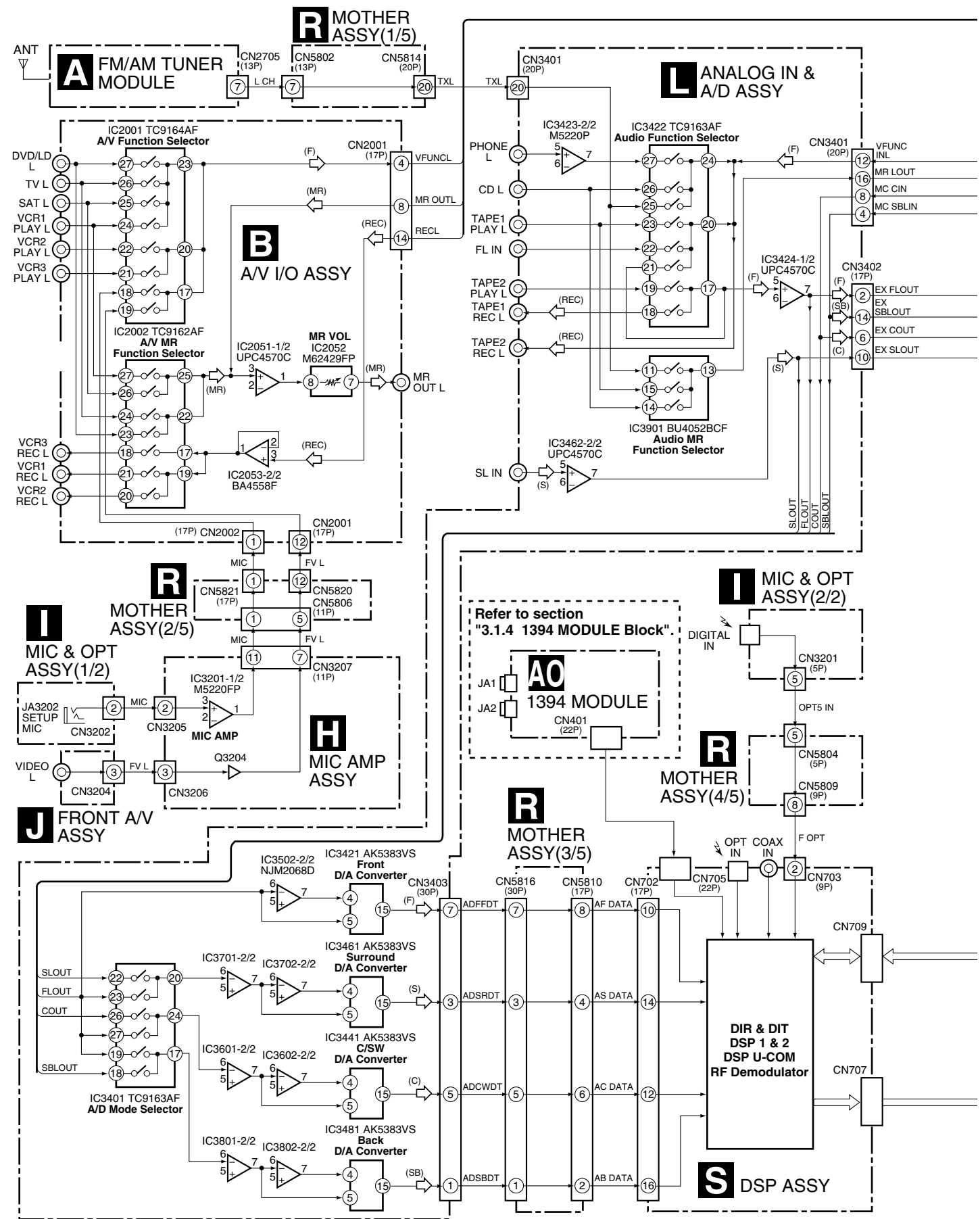


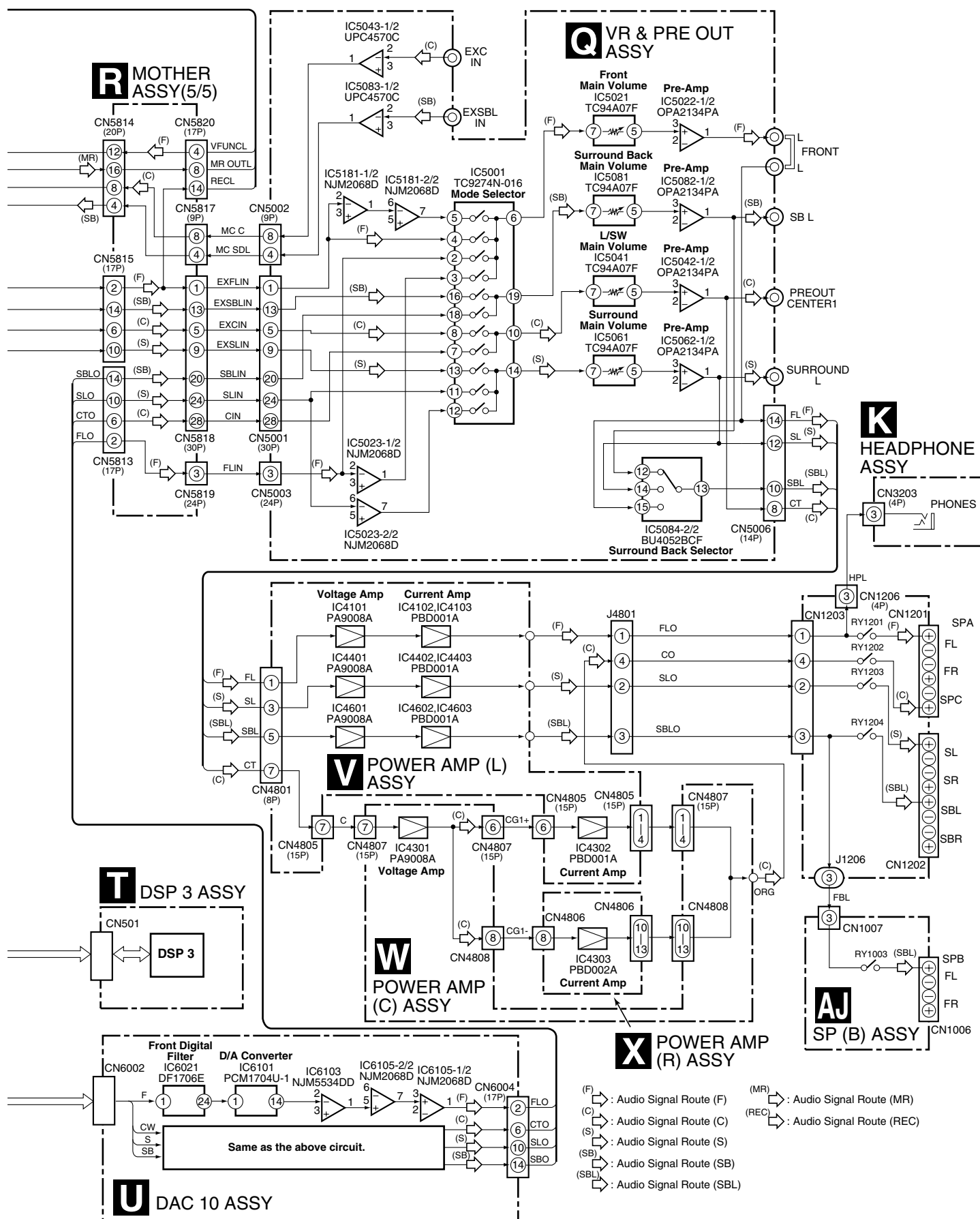
FRONT PANEL SECTION parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	DISPLAY Assy	AWX8140	51	Screw	ABA7076
2	HEADPHONE Assy	AWX7874	52	J33 FFC (3P) (DISPLAY CN3002-STANDBY CN1903)	ADD7331
3	FRONT A/V Assy	AWX8189	53	J35 FFC (4P) (SP(A) CN1206-HEADPHONE CN3203)	ADD7332
4	MIC & OPT Assy	AWX7875	54	J1101 Parallel Wire 3P (POWER SW CN1301-AC PRIMARY CN1105)	D20PYY0365E
5	STANDBY Assy	AWX7901	55	Fiber Washer	VEC1254
6	POWER SW Assy	AWX7840	NSP 56	Earth Metal Fitting	DE007VC0
7	FL SUPPLY Assy	AWX7871	NSP 57	Earth Metal Fitting	DE012VF0
8	INPUT SEL Assy	AWX7868	58	J32 8P Connector Assy (Front A/V CN3204-MIC AMP CN3206)	ADX7390
9	MULTI JOG Assy	AWX7869	59	J99 4P Connector Assy (MIC & OPT CN3202-MIC AMP CN3205)	ADX7421
10	VOL Assy	AWX7870	60	J31 5P Connector Assy (MIC & OPT CN3201-Mother CN5804)	ADX7386
11	Front Panel	ANB7301	61	J1801 4P Connector Assy (FL Supply CN1901-FUSE CN1803)	ADX7377
12	Pioneer Badge B	PAN1376	NSP 62	Panel spacer left L	AMR7411
13	Rotary Knob L BK	AAA7018	NSP 63	Panel spacer left S	AMR7408
14	Plate	ANG7198	NSP 64	Panel spacer right L	AMR7412
15	Rotary Knob S BK	AAA7015	NSP 65	Panel spacer right S	AMR7409
16	Display Panel	AAK7932	66	Fiber washer	AEC7403
17	Panel Base L BK	AMB7788			
18	Panel Base R BK	AMB7791			
19	Power Button	AAD7440			
20	Power Button M	AAD7442			
21	Washer	ABF7008			
NSP 22	VR Stabilizer	ANG7383			
23	Cord Holder	RNH-184			
24	Nut	NK90FCU			
NSP 25	Earth Spring	ABK7031			
26	Door Panel BK	ANB7273			
NSP 27	Door Cushion	AED7051			
28	Door Plate	AAH7077			
29	FL Lens I OR	AAK8069			
30	Inner Panel	AAH7087			
31	LED Lens	AAK7931			
32	• • • •				
33	LED Lens	PNW2019			
34	Panel Base C BK	AMB7785			
NSP 35	Door Hinge L	ANG7379			
NSP 36	Door Hinge R	ANG7380			
37	Door Holder L	AMR7373			
38	Door Holder R	AMR7374			
39	Damper Assy	AXA7108			
40	Screw	ABA7074			
41	Magnet	AMF7004			
NSP 42	Input Holder	ANG7384			
NSP 43	Earth Spring	ABH7208			
44	Shield plate D	AMR7390			
45	Screw	BBZ30P100FZK			
46	Screw	BBZ30P080FCC			
47	Screw	ABA7053			
48	Screw	BBT30P060FCC			
49	Screw	ABA1050			
50	Screw	BBZ20P060FMC			

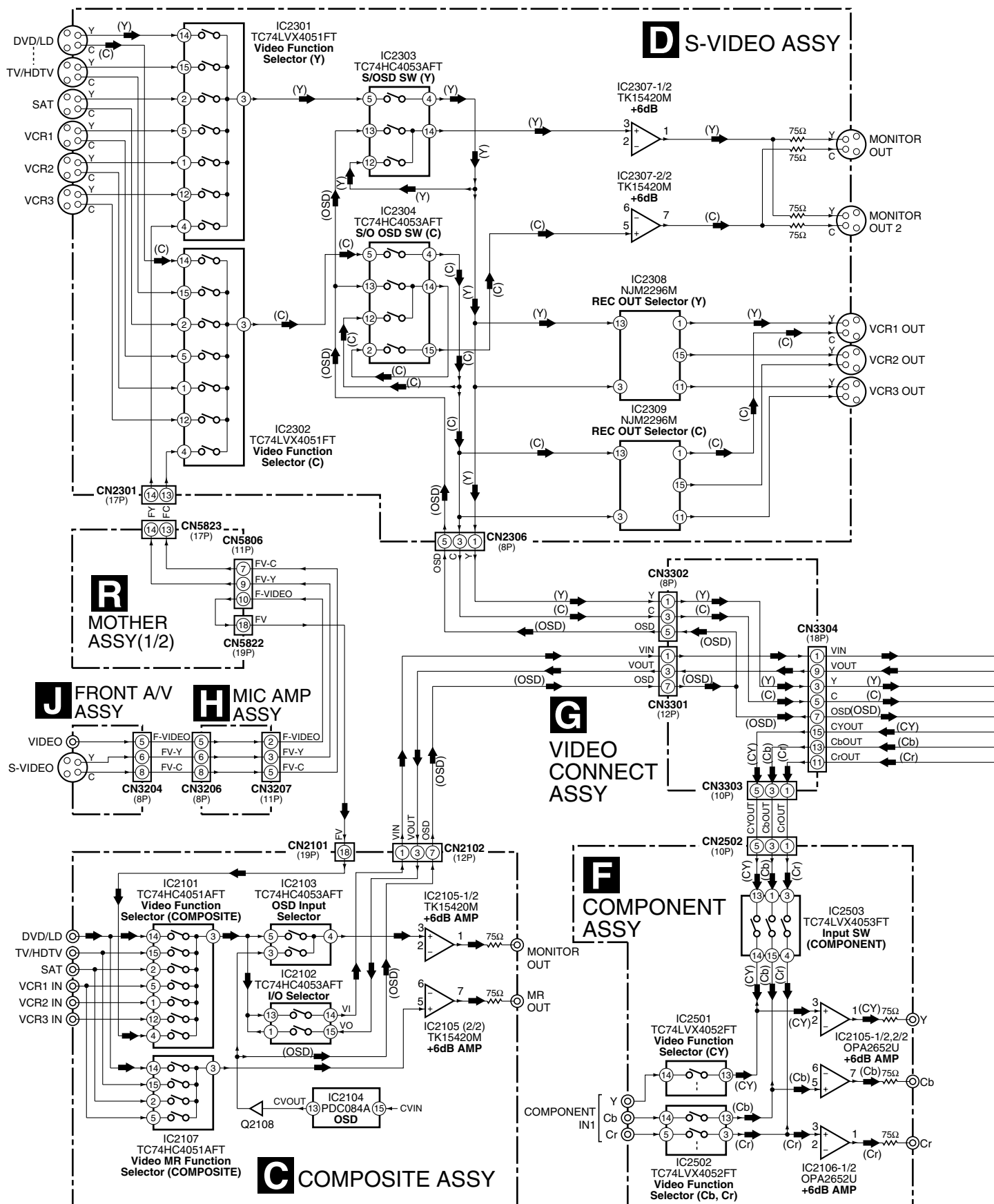
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM





• Video Block



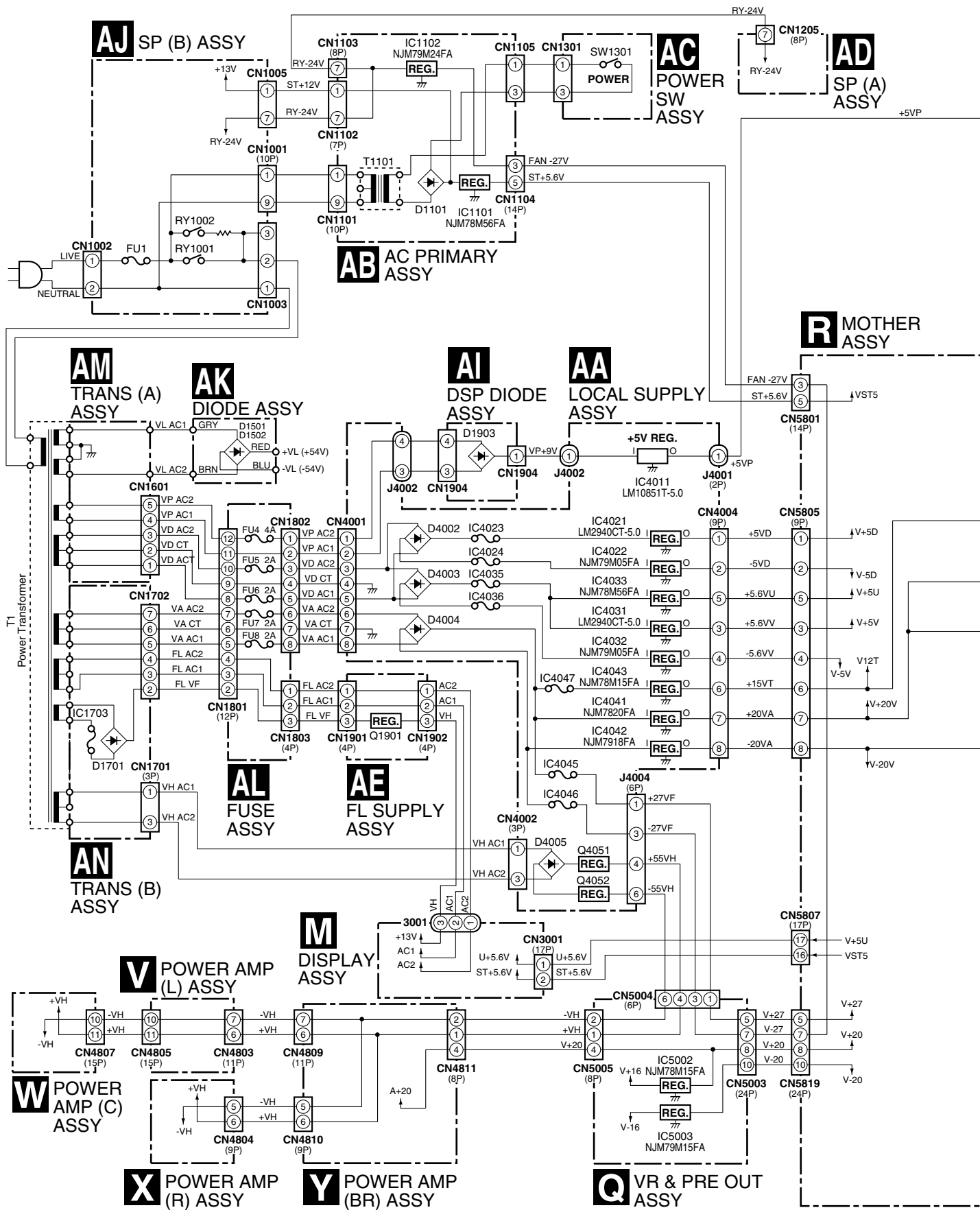
A

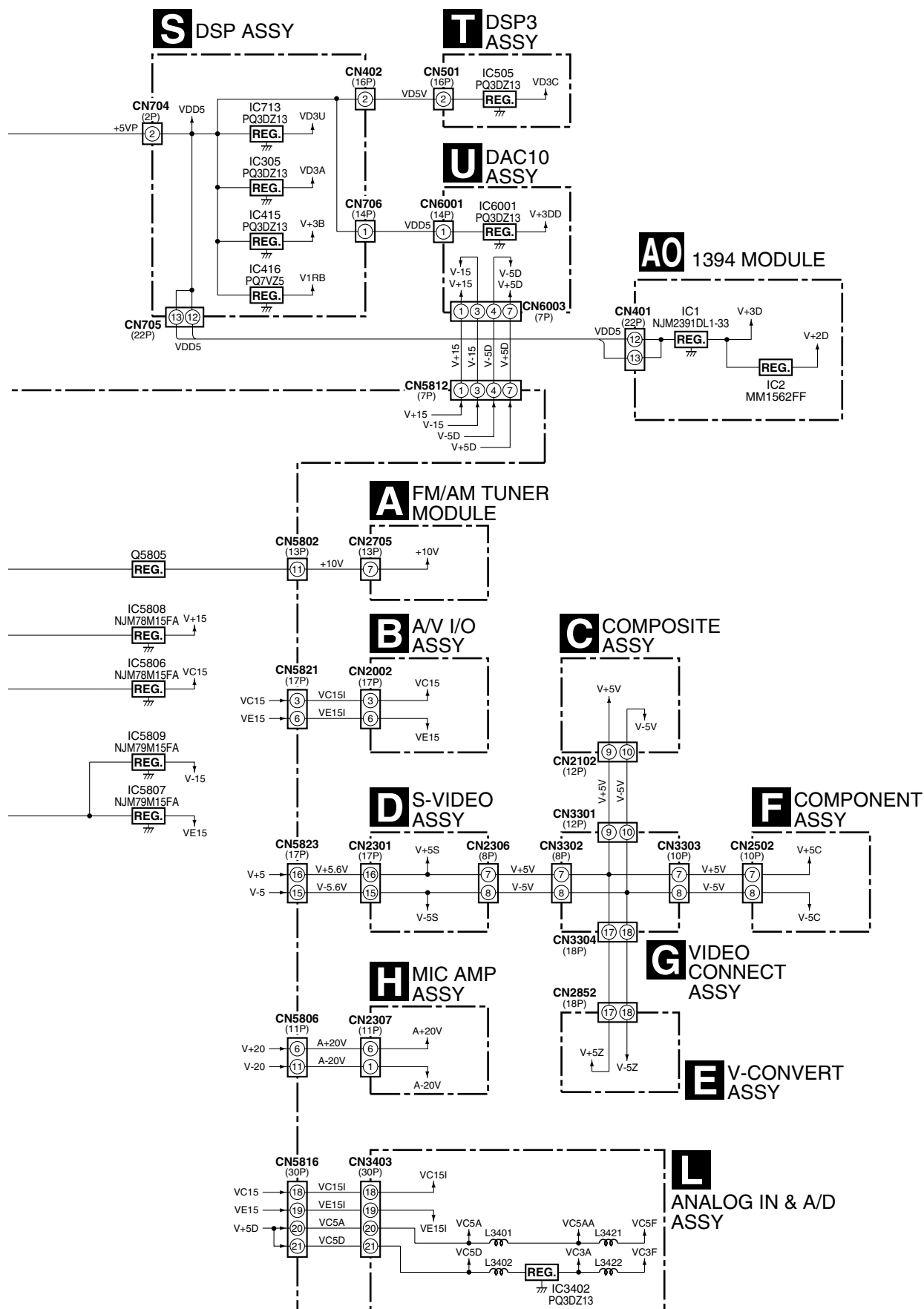


D

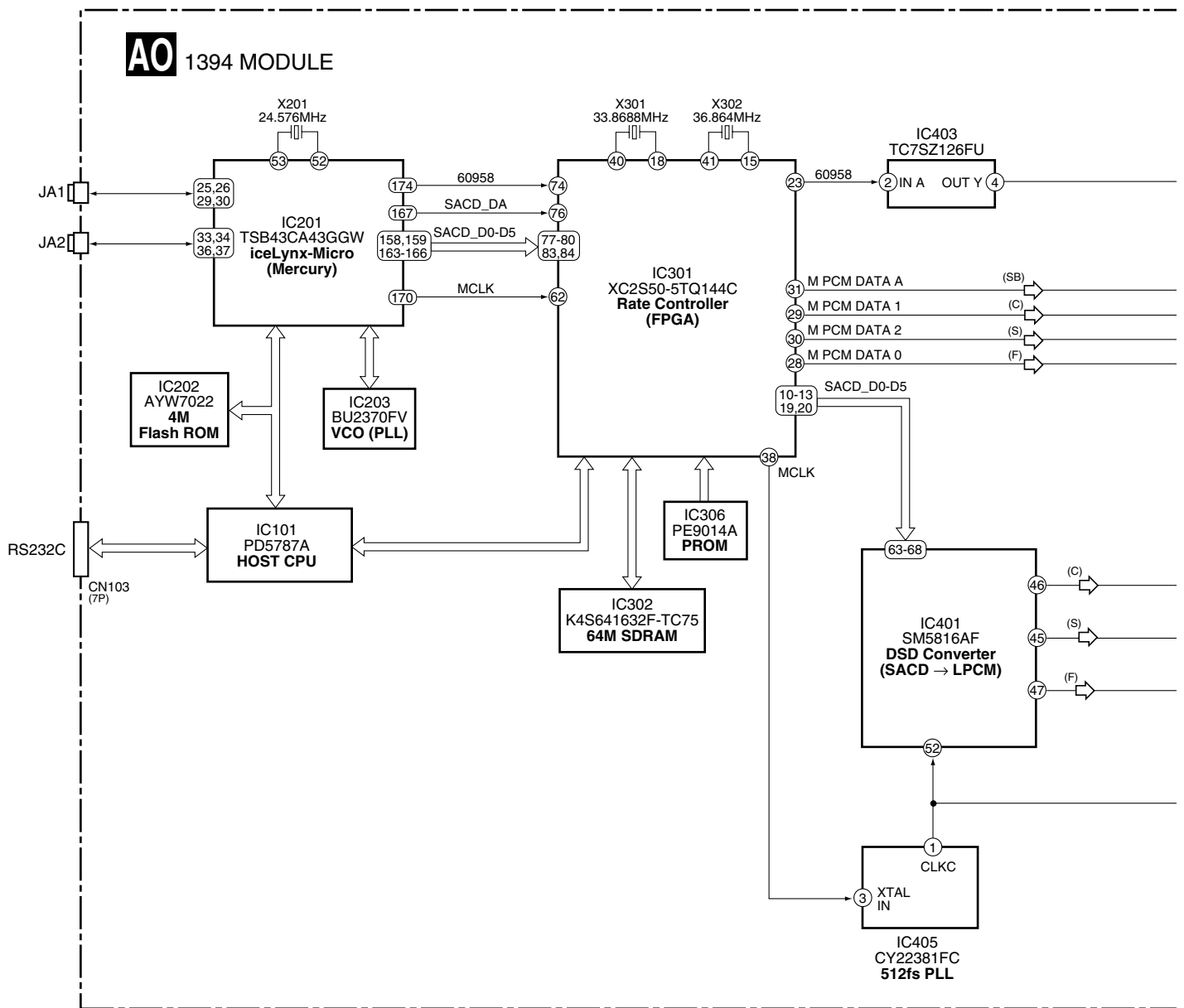


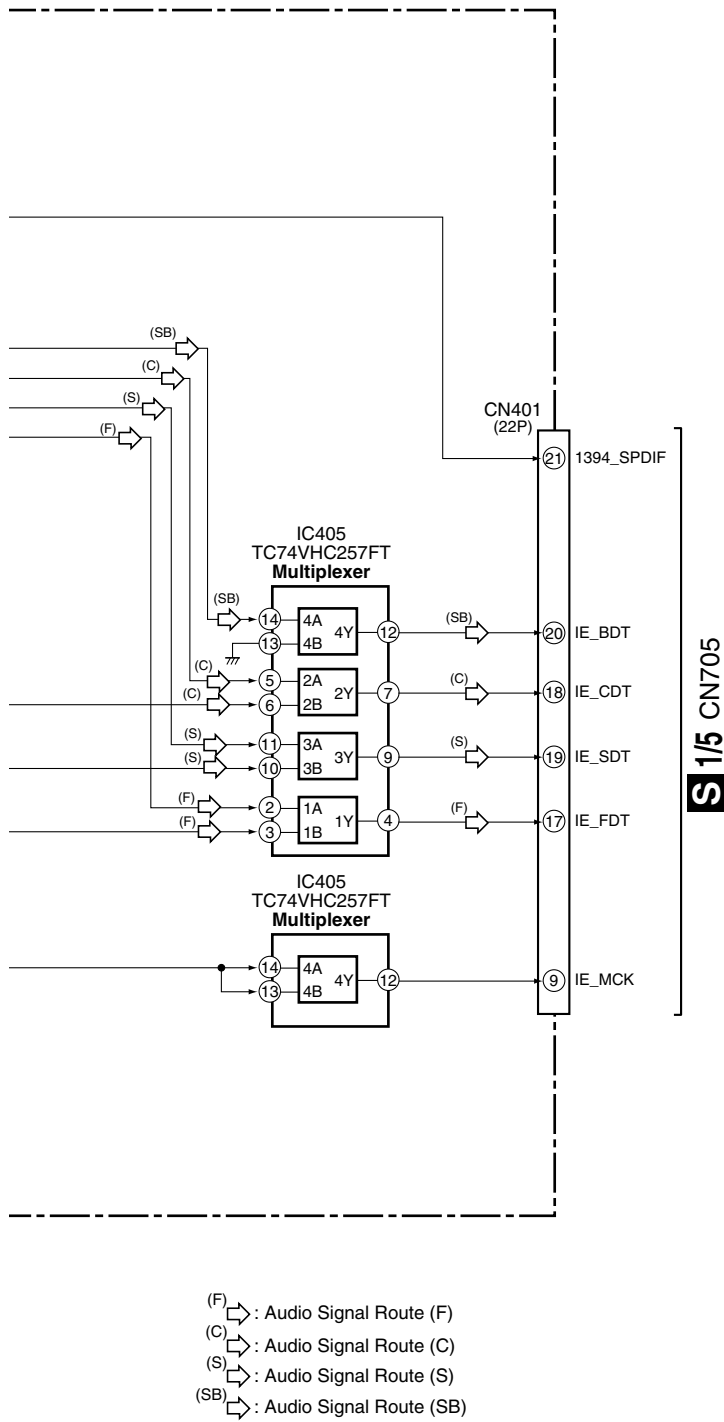
● Power Supply Block



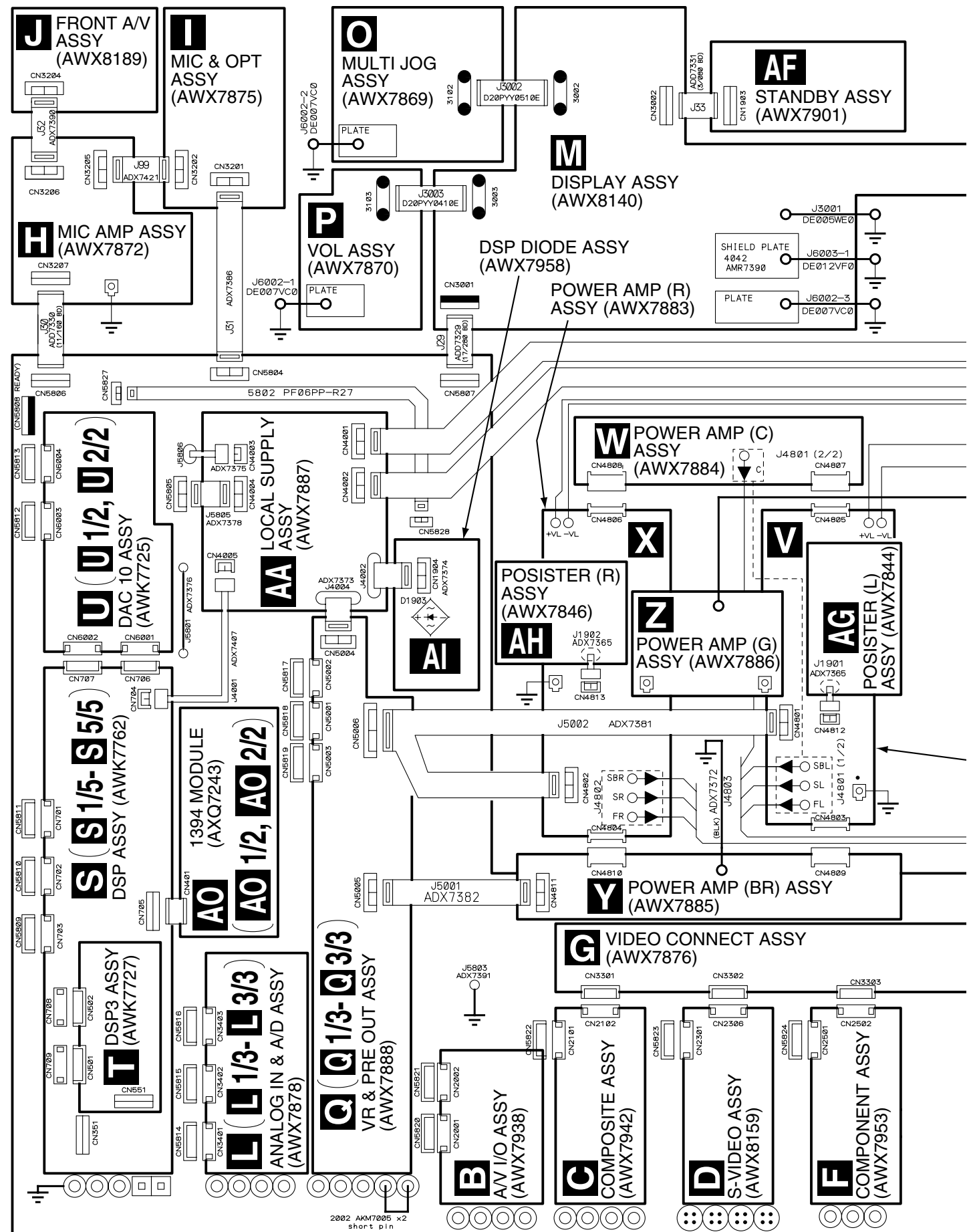


● 1394 MODULE Block

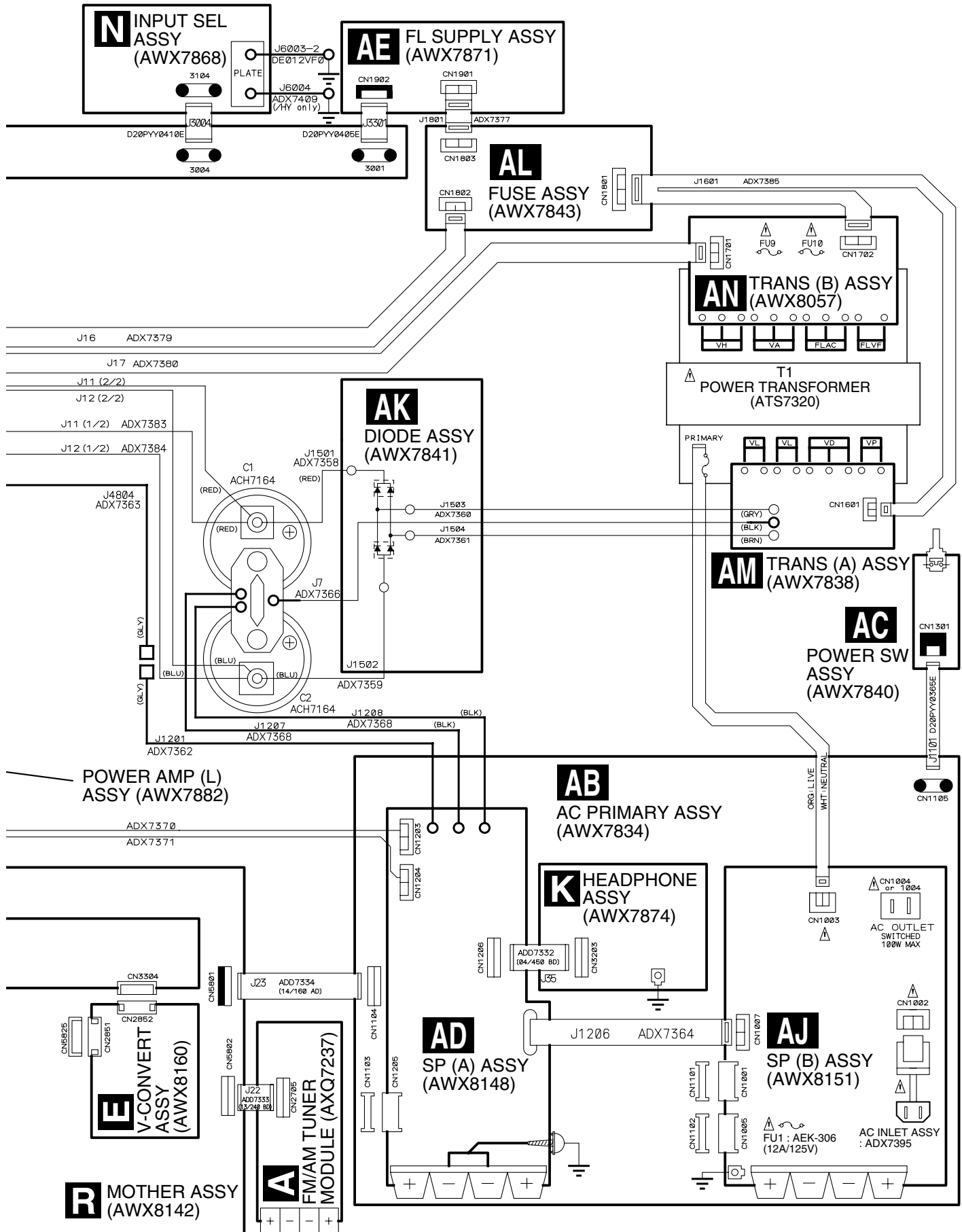




3.2 OVERALL WIRING DIAGRAM



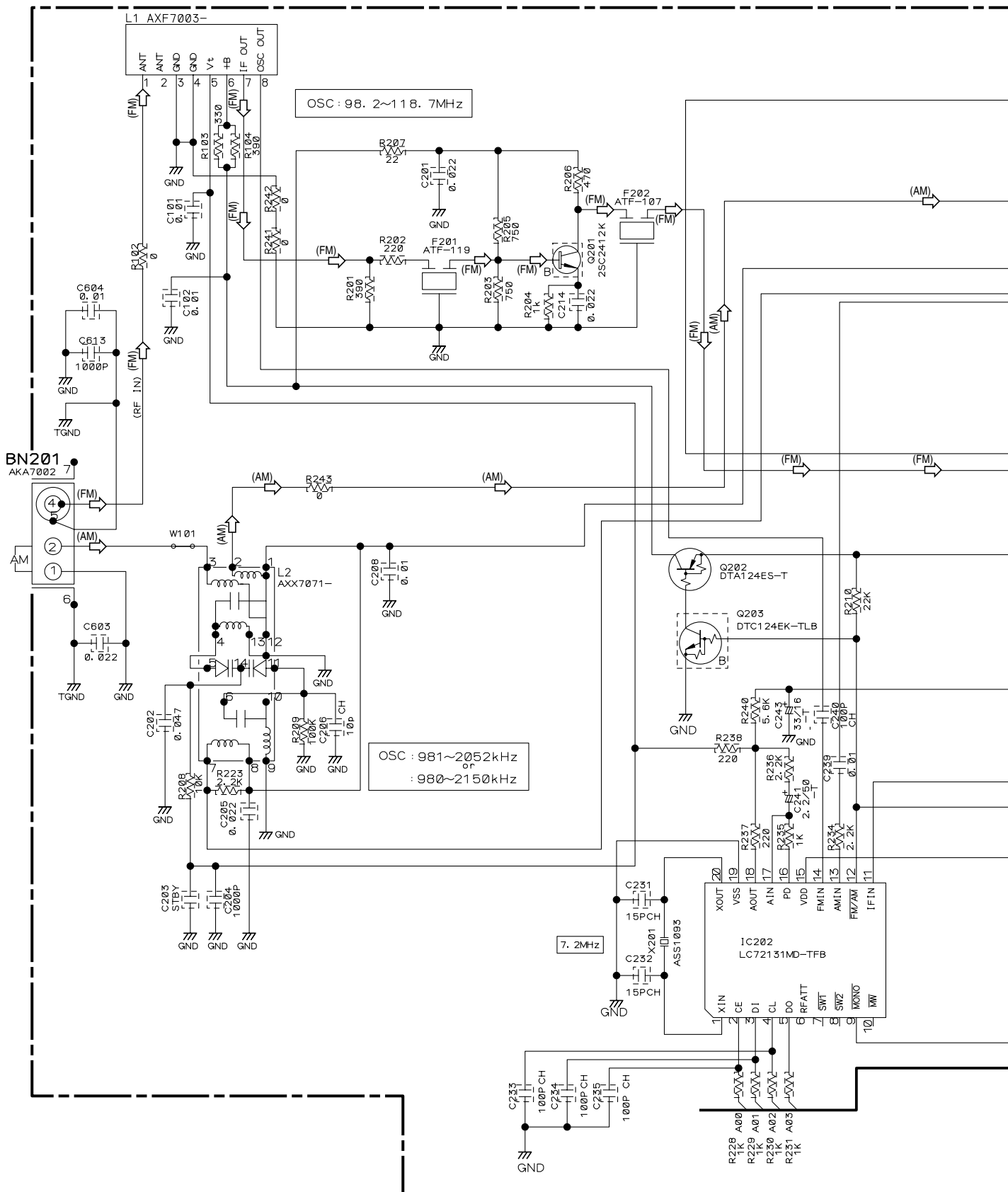
Note: When ordering service parts, be sure to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

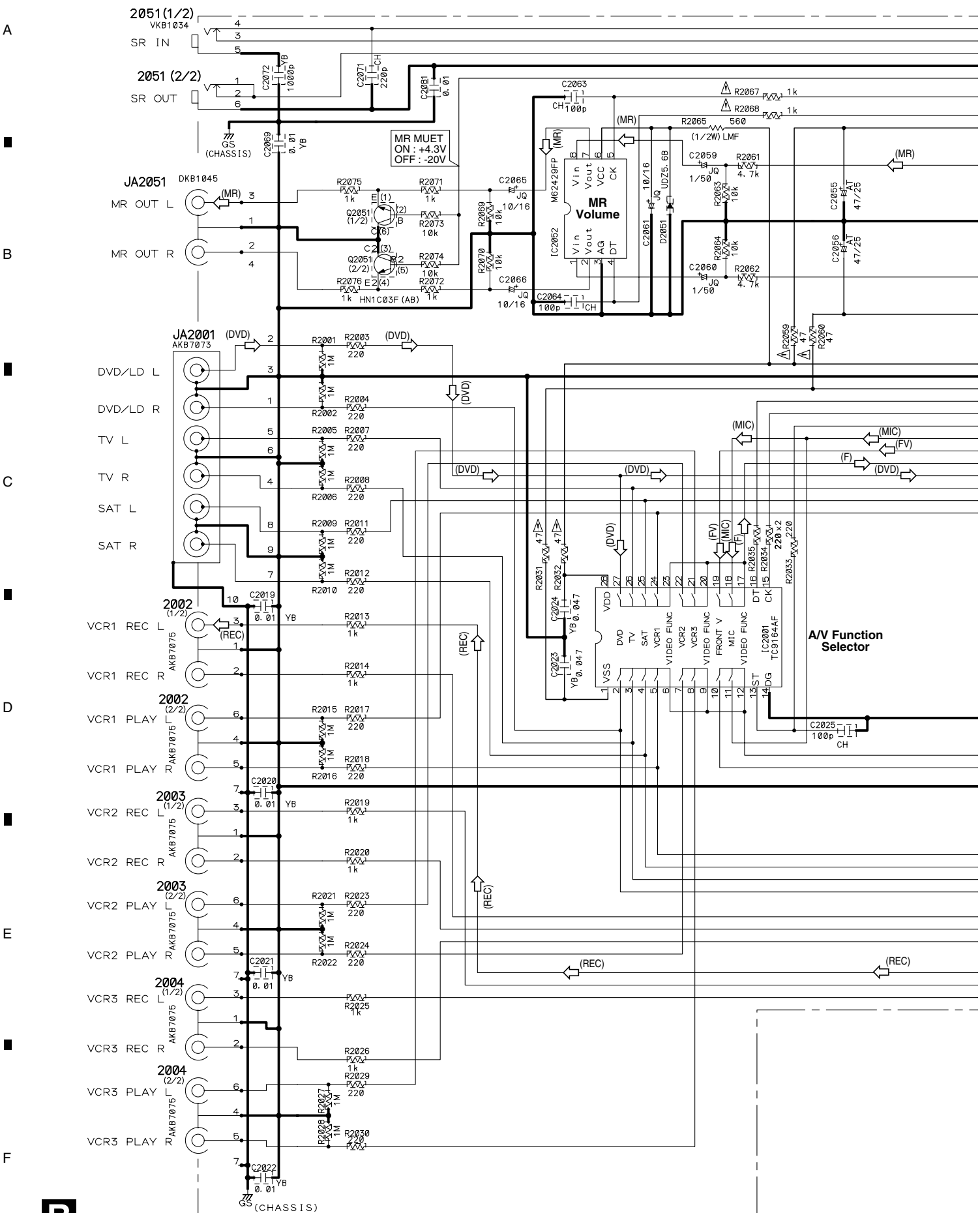


A
B
C
D
E
F

3.3 FM/AM TUNER MODULE

FM/AM TUNER MODULE (AXQ7237)



B

B A/V I/O ASSY (AWX7938)

R
CN5821

CN2002

17 SR IN
16 RMC
15 SR OUT
14 MR MUTE
13 M62429DT
12 M62429CLK
11 TC916XDT
10 TC916XCLK
9 TC916xSTB1
8 DG
7 DG
6 VE15I
5 AG
4 AG
3 VC15I
2 MIC GND
1 MIC

17PS-JE

17 AG
16 REC R
15 REC L
14 AG
13 AG
12 FV L
11 AG
10 FV R
9 AG
8 MR OUT L
7 AG
6 MR OUT R
5 AG
4 VFUNC L
3 AG
2 VFUNC R
1 AG

CN2001
KP200TA17L

R
CN5820

(DVD) → AUDIO SIGNAL ROUTE (DVD)
(REC) → AUDIO SIGNAL ROUTE (REC)
(MR) → AUDIO SIGNAL ROUTE (MR)
(MIC) → AUDIO SIGNAL ROUTE (MIC)
(F) → AUDIO SIGNAL ROUTE (F)
(FV) → AUDIO SIGNAL ROUTE (FV)

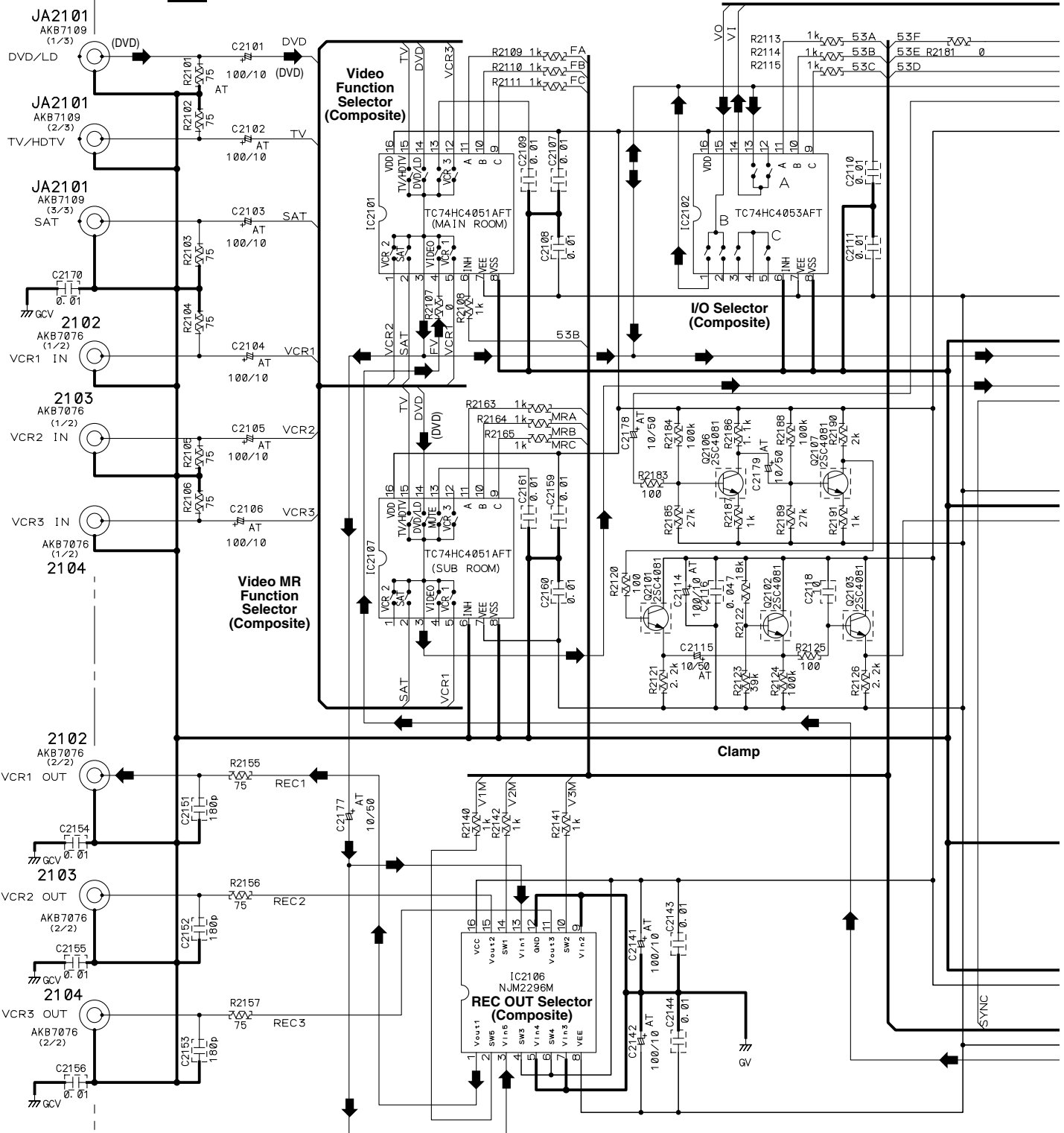
NOTES

- RESISTORS
Unit: k- Ω , M-M Ω or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: $\pm 5\%$ (J) unless otherwise noted.
 - CAPACITORS
Unit: p-pF or μ F unless otherwise noted.
Rated Voltage: shown as "Capacity(μ F)/Voltage(V)",
or 50V unless otherwise noted.
 - DIODES
No marked Diodes are 1SS355.
- *Parts or parts block marked by "*" or "STBY" are standby.

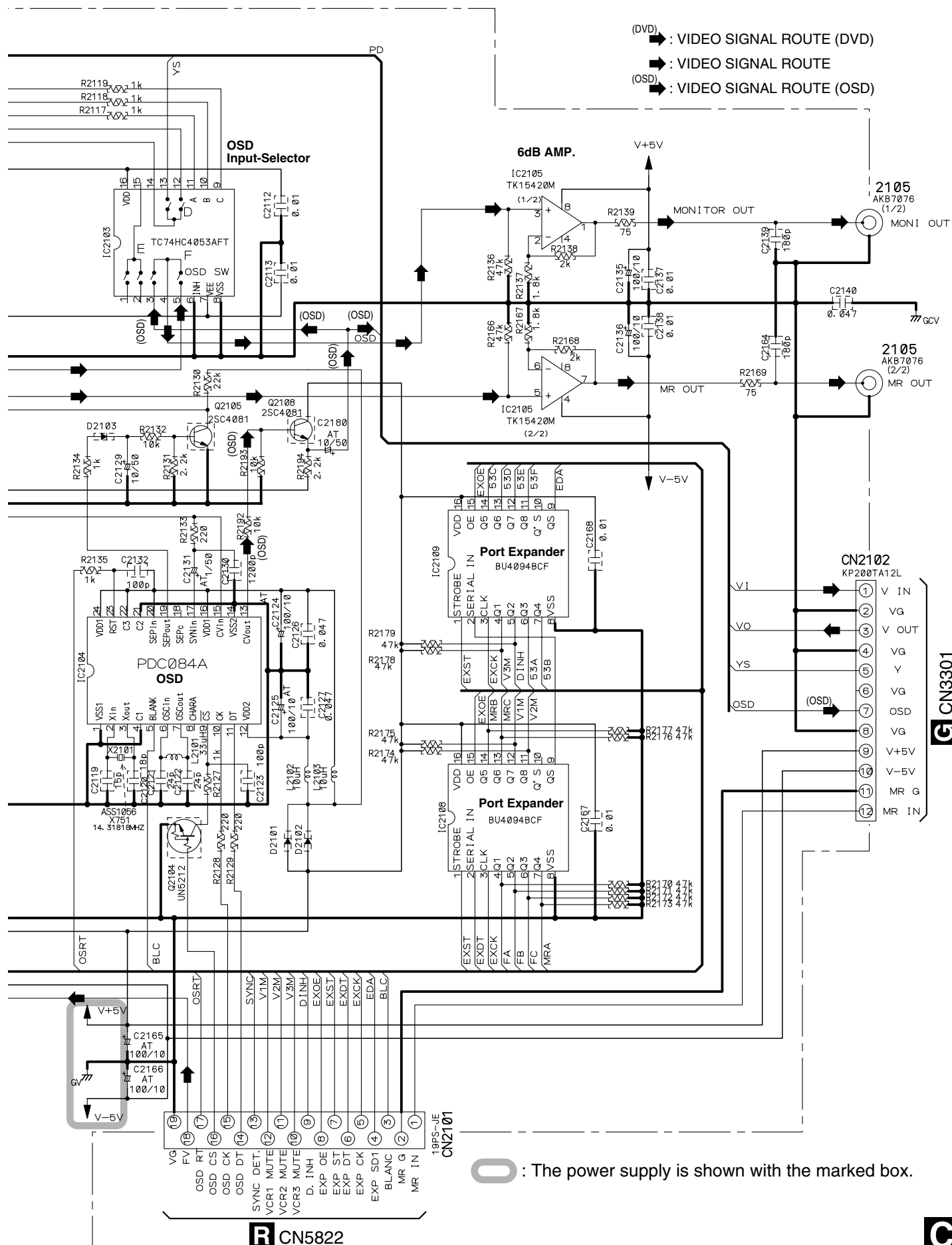
The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

3.5 COMPOSITE ASSY

COMPOSITE ASSY (AWX7942)



- NOTES**
- RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5% (J) unless otherwise noted.
 - CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Rated Voltage: shown as "Capacity (μF)/Voltage (V)",
or 50V unless otherwise noted.
AT : CEAT
 - DIODES
No marked Diodes are 1SS355.
XParts or parts block marked by "*" or "STBY" are standby.



A

B

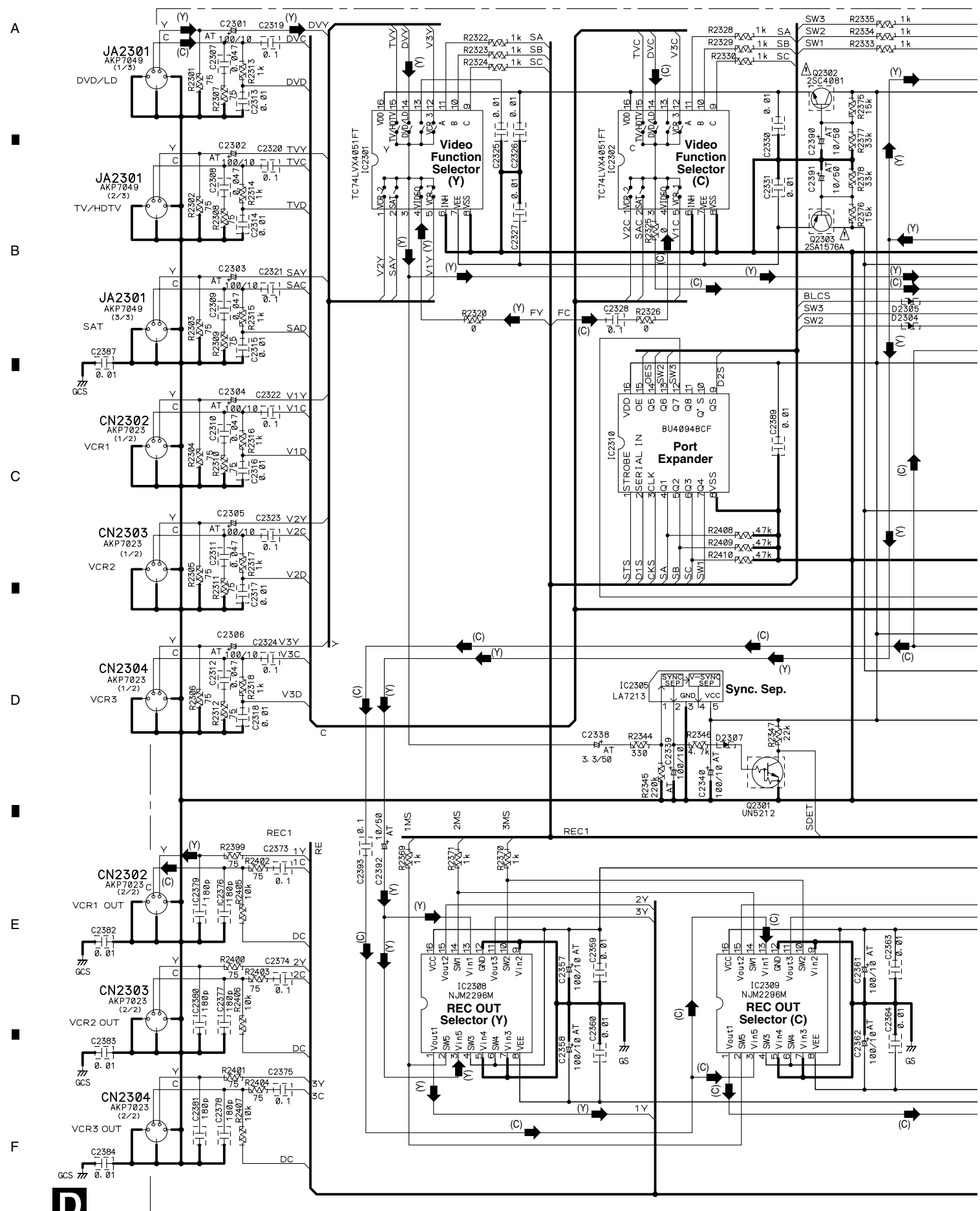
C

D

E

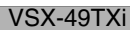
F

3.6 S-VIDEO ASSY

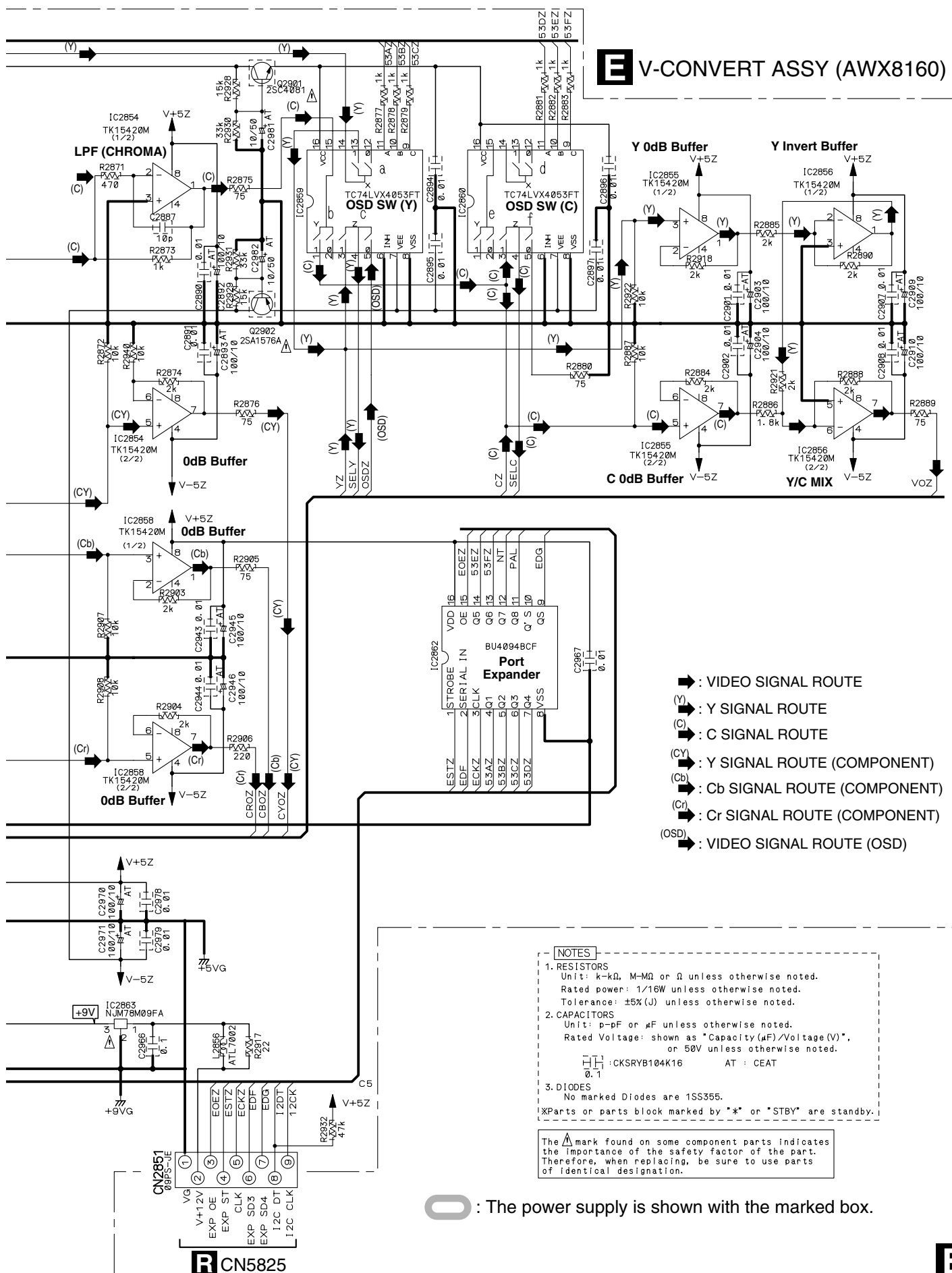




4



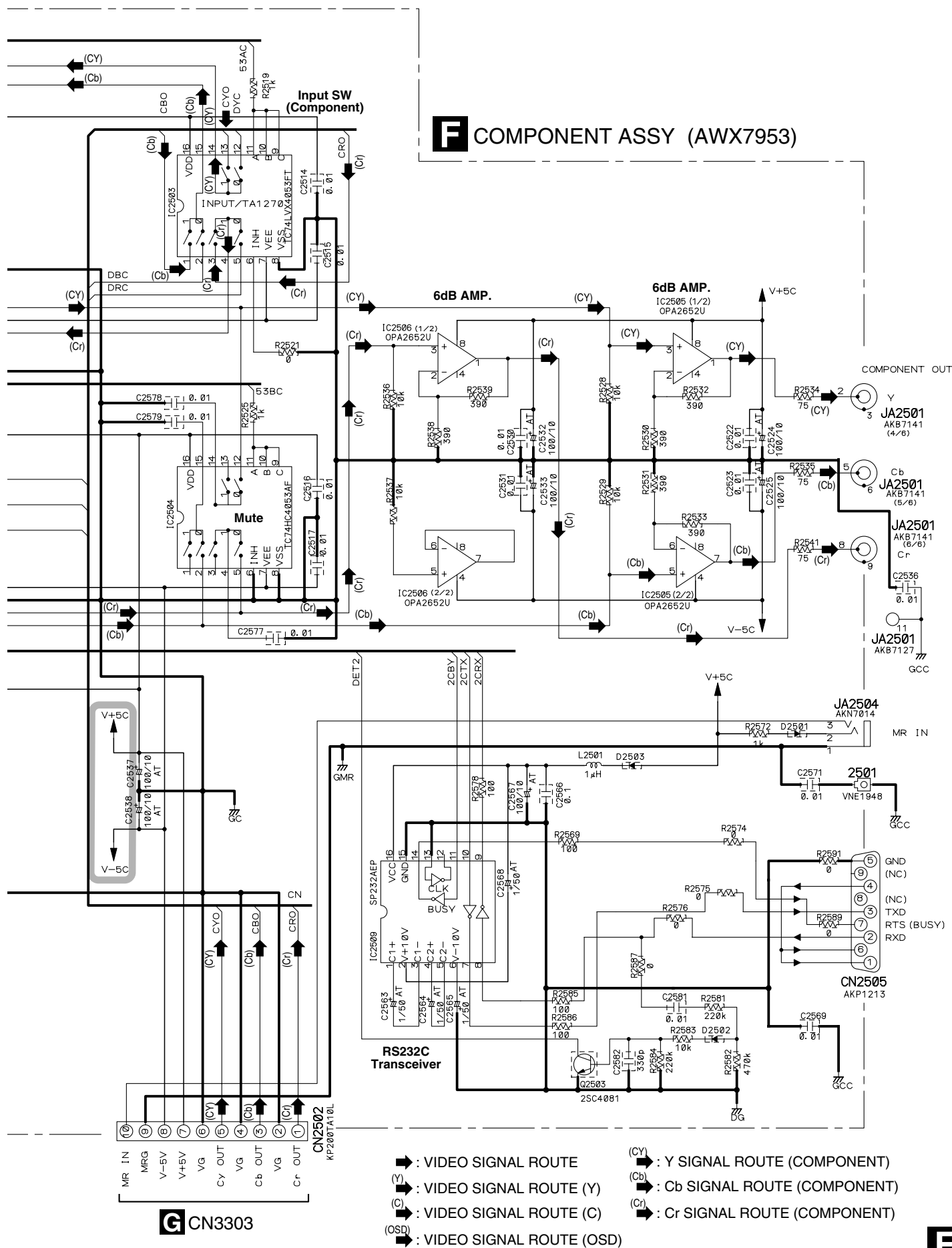
V-CONVERT ASSY (AWX8160)



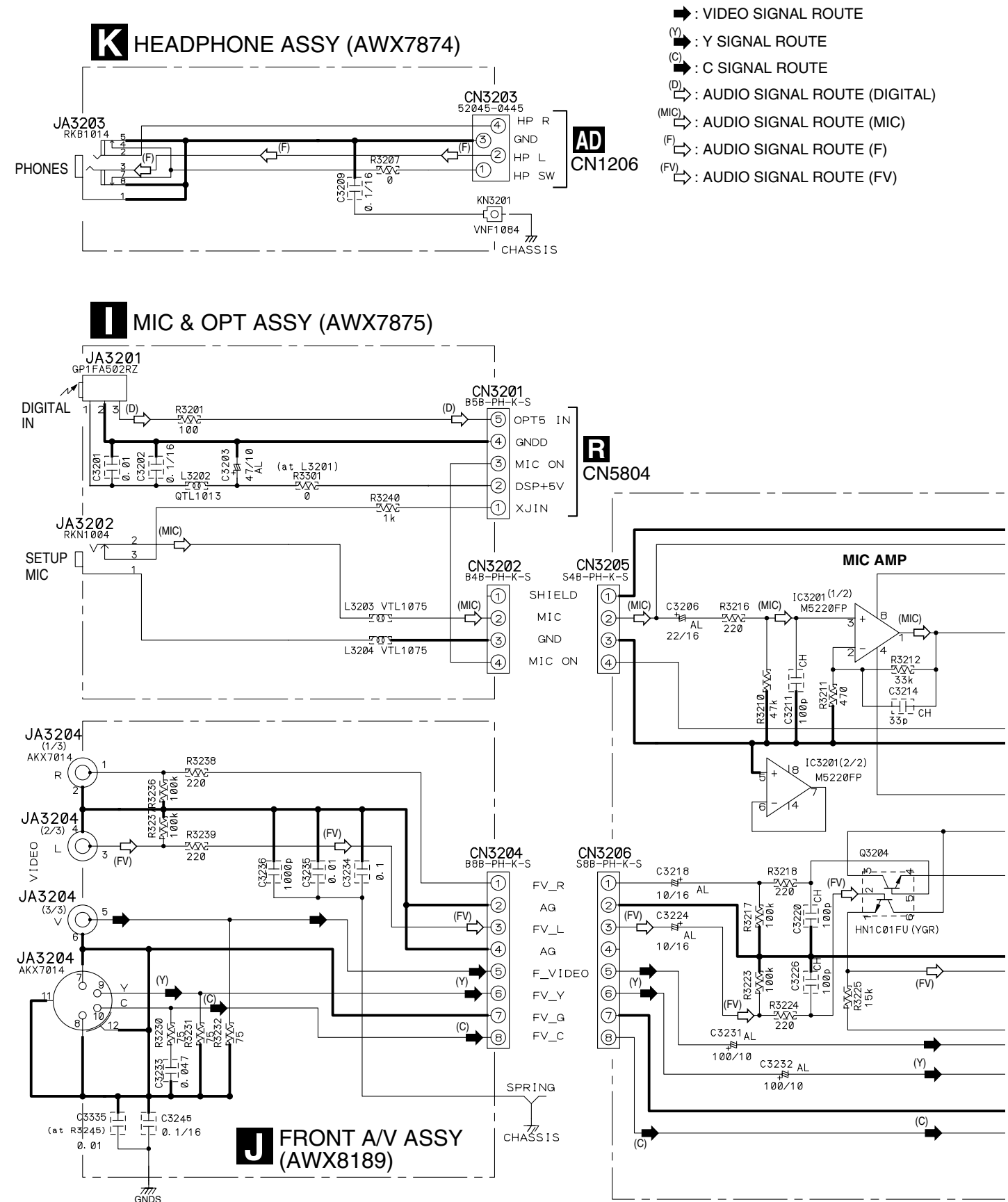
R CN5825

VSX-49TXi

E

A
B
C
D
E
F

3.9 VIDEO CON., MIC AMP, MIC, FRONT A/V and H.P. ASSYS

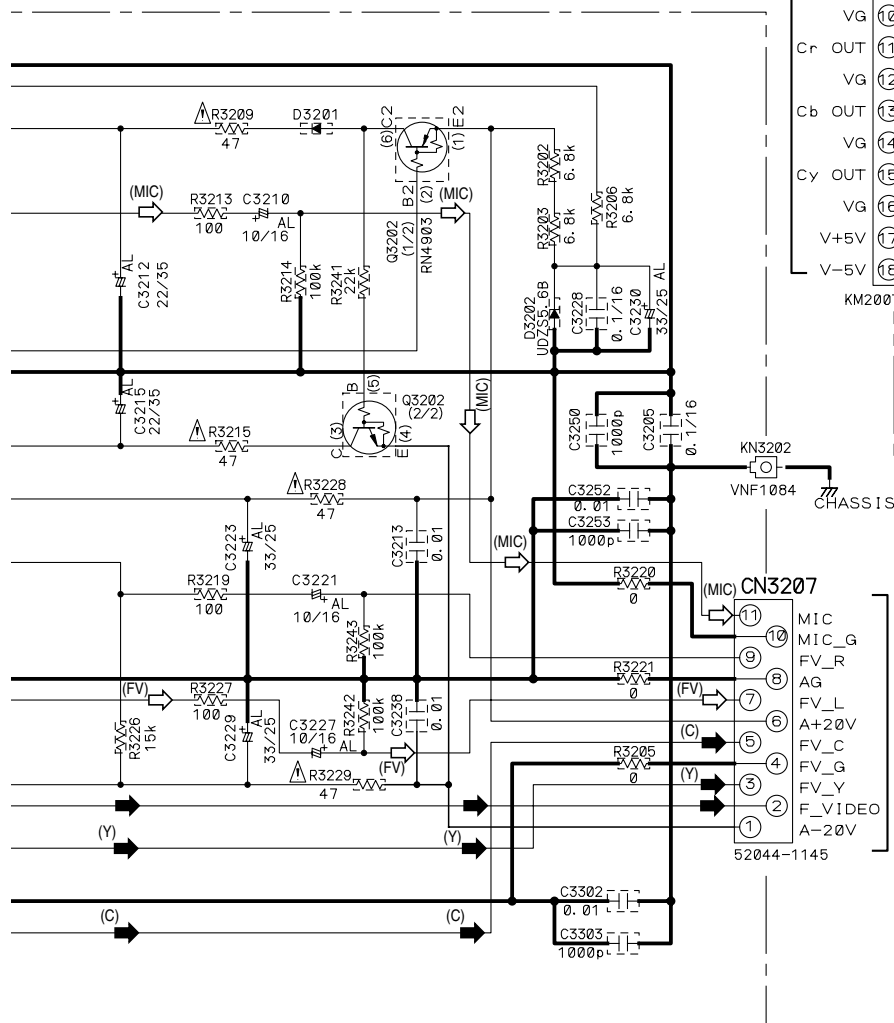


NOTES

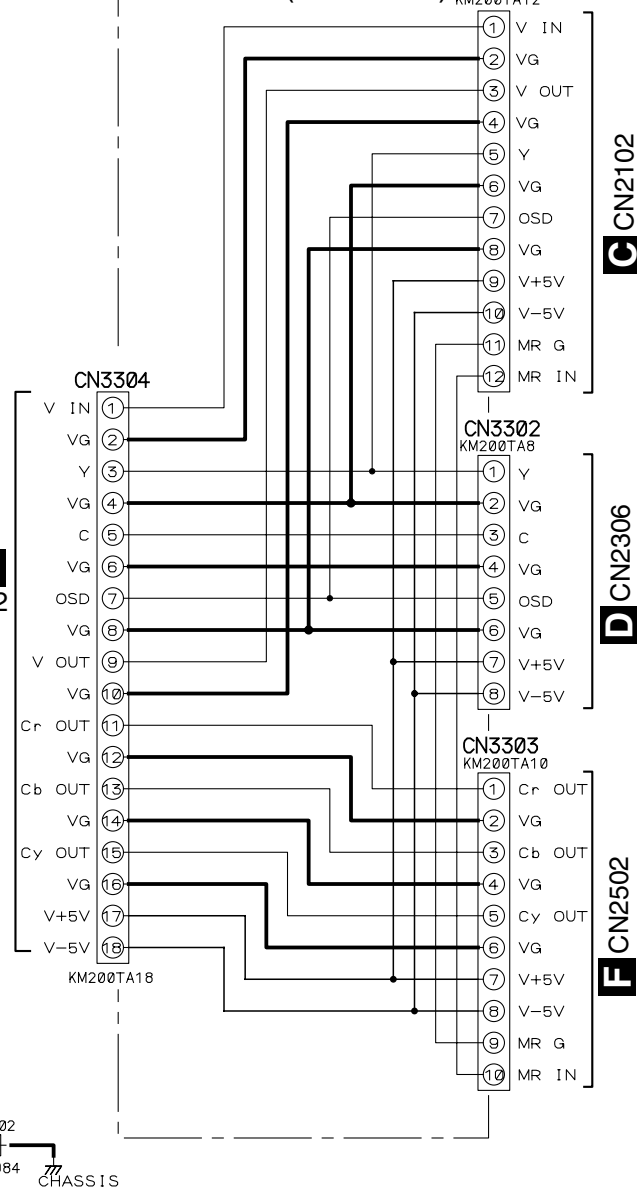
1. RESISTORS
Unit: k- Ω , M- Ω or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: $\pm 5\%$ (J) unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μ F unless otherwise noted.
Rated Voltage: shown as "Capacity (μ F)/Voltage (V)",
or 50V unless otherwise noted.
- AL:CEAL, CH:CCSRCH
:CKSRYB type unless otherwise noted.
3. DIODES
No marked Diodes are 1SS355.
- *Parts or parts block marked by "*" or "STBY" are standby.

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.

H MIC AMP ASSY (AWX7872)



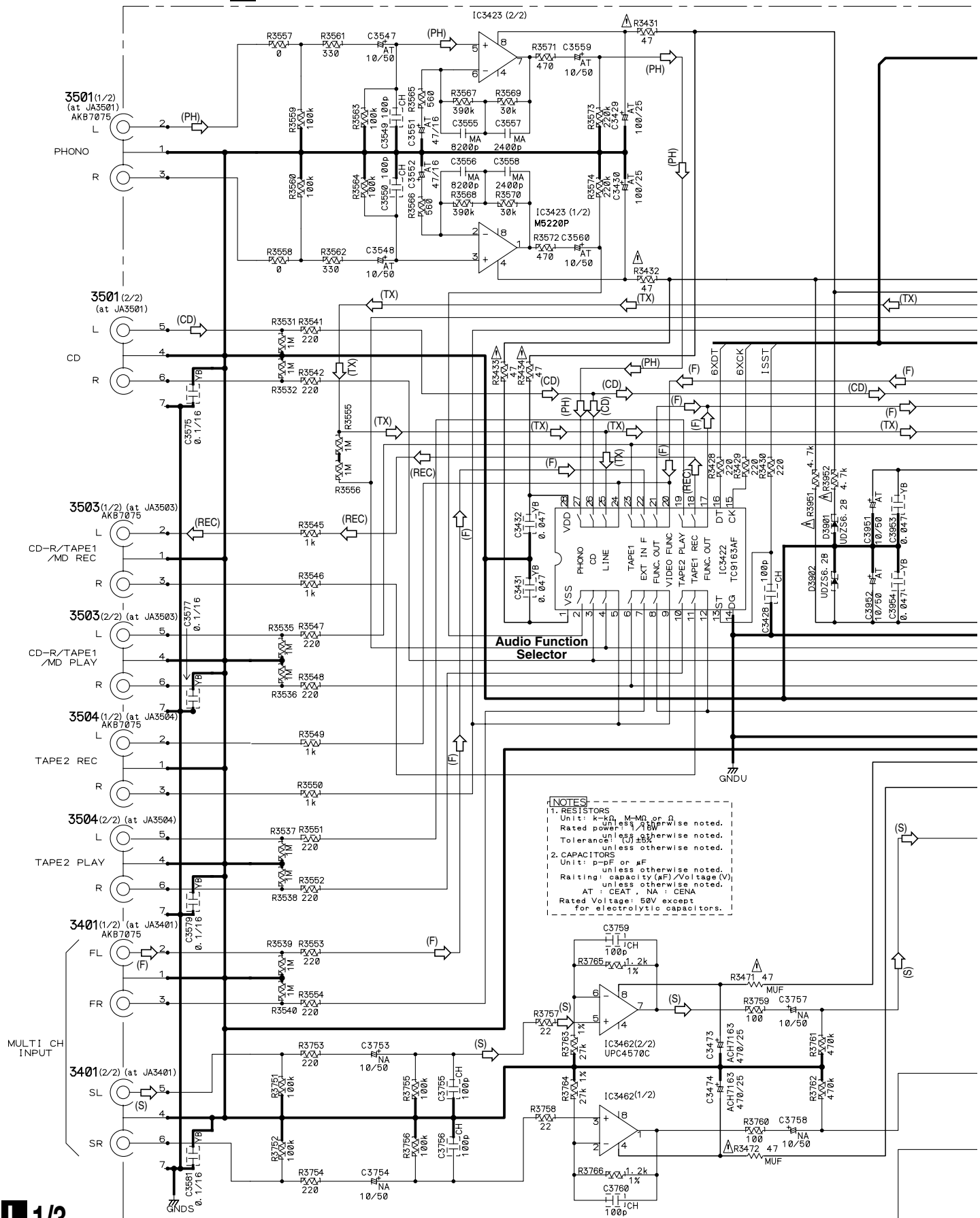
G VIDEO CONNECT
ASSY (AWX7876)

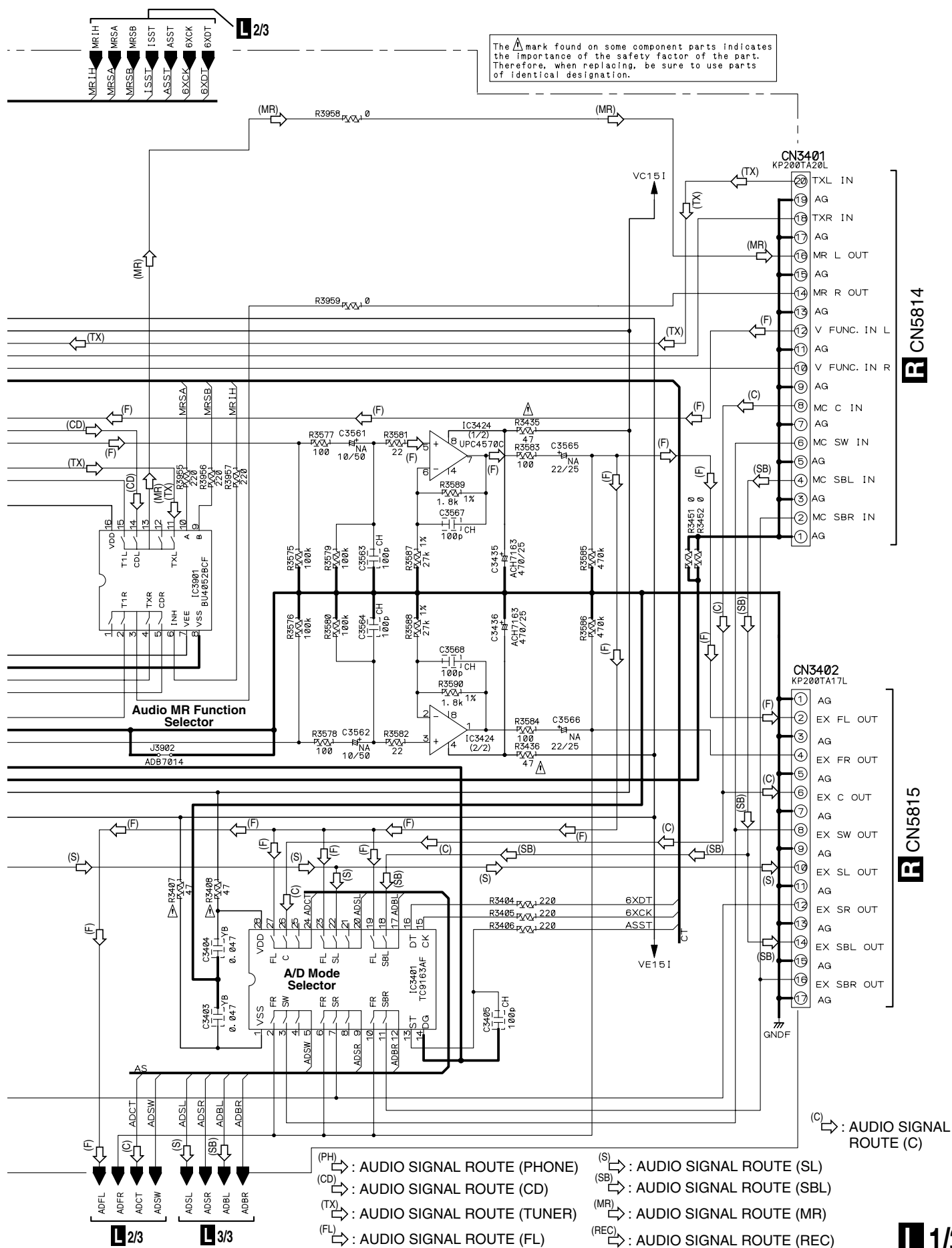


R
CN5806

3.10 ANALOG IN & A/D ASSY(1/3)

1/3 ANALOG IN & A/D ASSY (AWX7878)

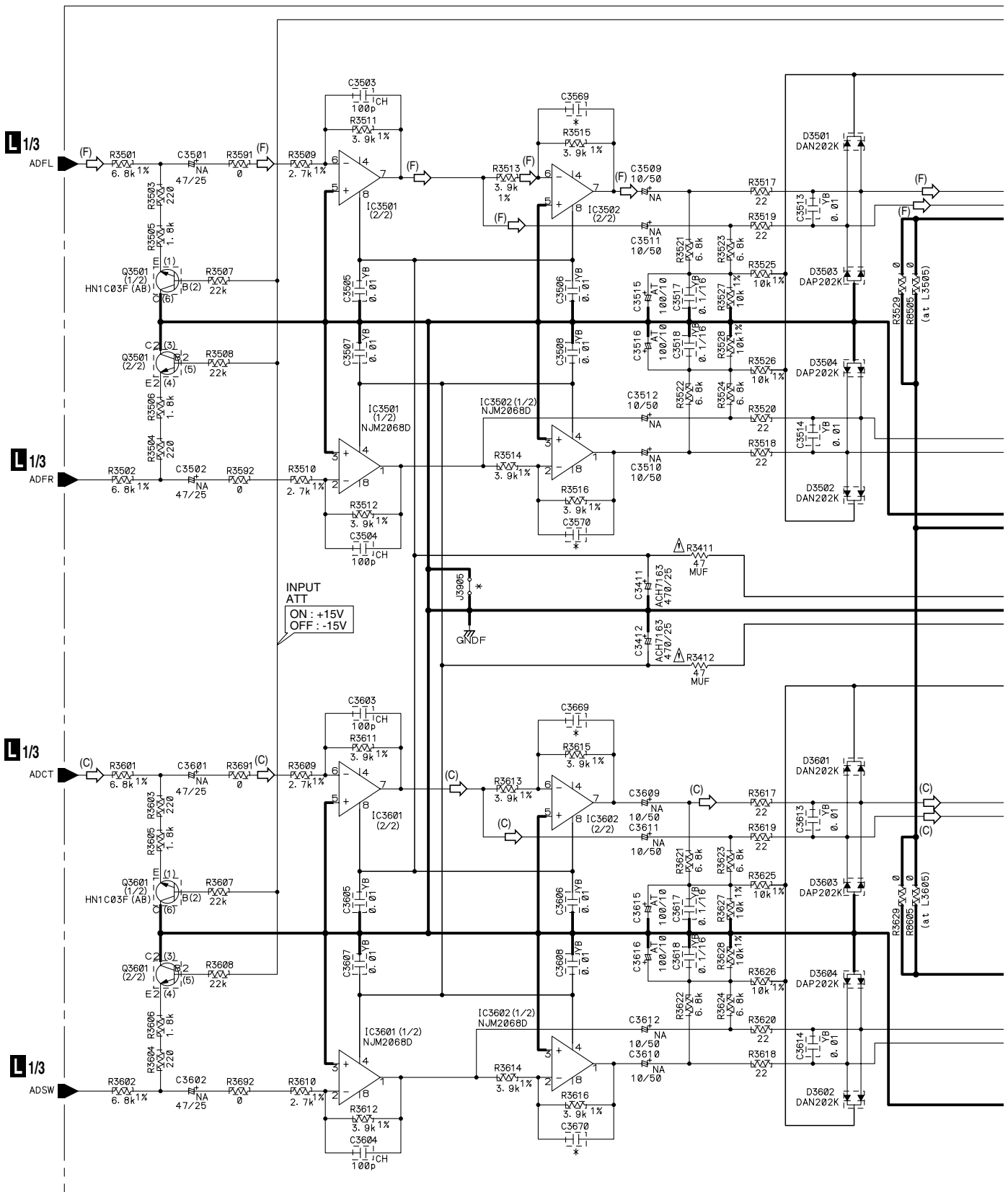




3.11 ANAALOG IN & A/D ASSY(2/3)

L 2/3 ANALOG IN & A/D ASSY (AWX7878)

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.



L 2/3

Δ : The power supply is shown with the marked box.

VSX-49TXi

NOTES

1. RESISTORS

Unit: k- Ω , M- Ω or Ω unless otherwise noted.
 Rated power: 1/16W unless otherwise noted.
 Tolerance: $\pm 5\%$ (J) unless otherwise noted.

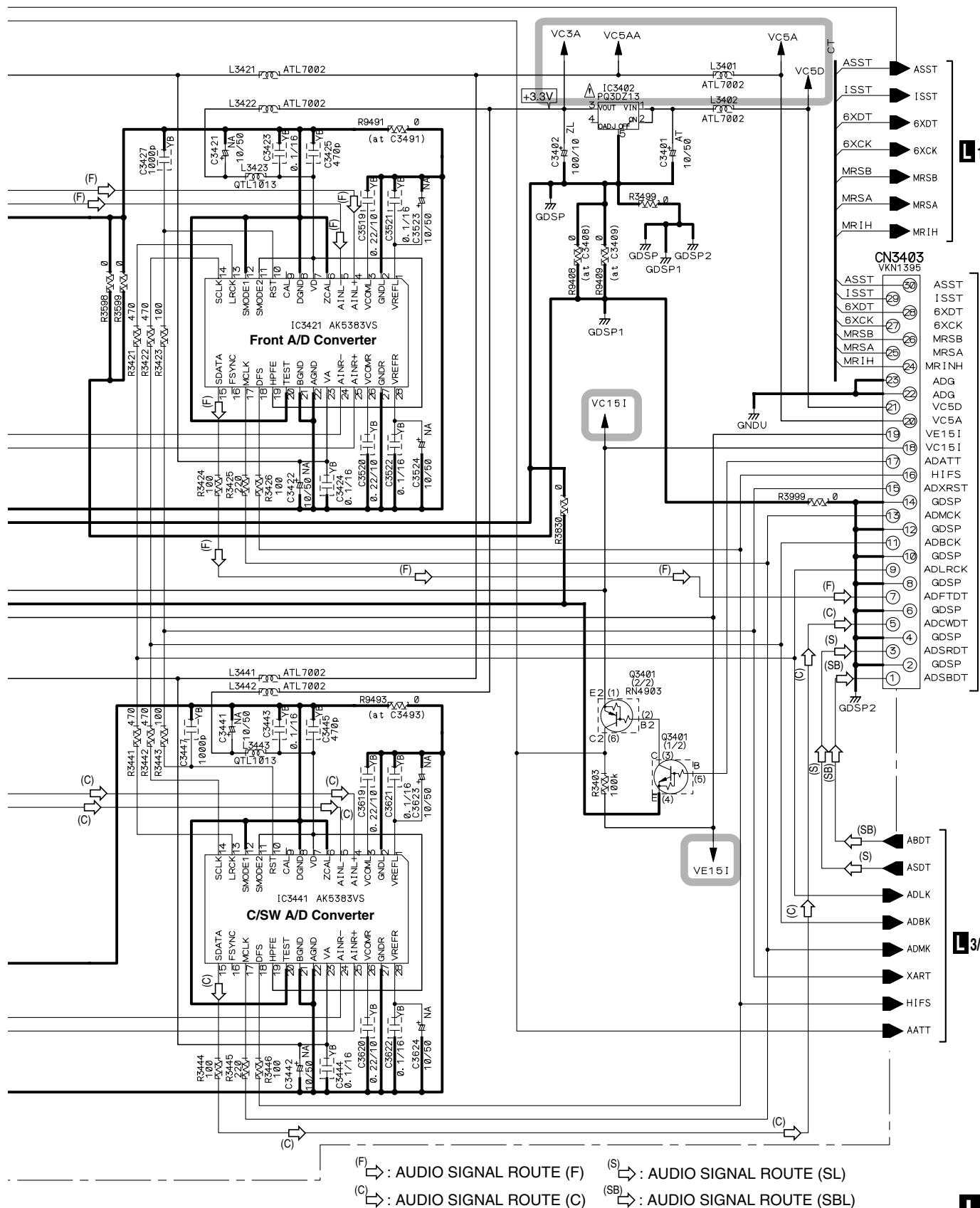
2. CAPACITORS

Unit: p-pF or μ F unless otherwise noted.

Rated Voltage: shown as "Capacity(μ F)/Voltage(V)",
 or 50V unless otherwise noted.

AT : CEAT, NA : CENA

XParts or parts block marked by "*" or "STBY" are standby.



3.12 ANAALOG IN & A/D ASSY(3/3)

NOTES

1. RESISTORS

Unit: k- Ω , M-M Ω or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: $\pm 5\%$ (J) unless otherwise noted.

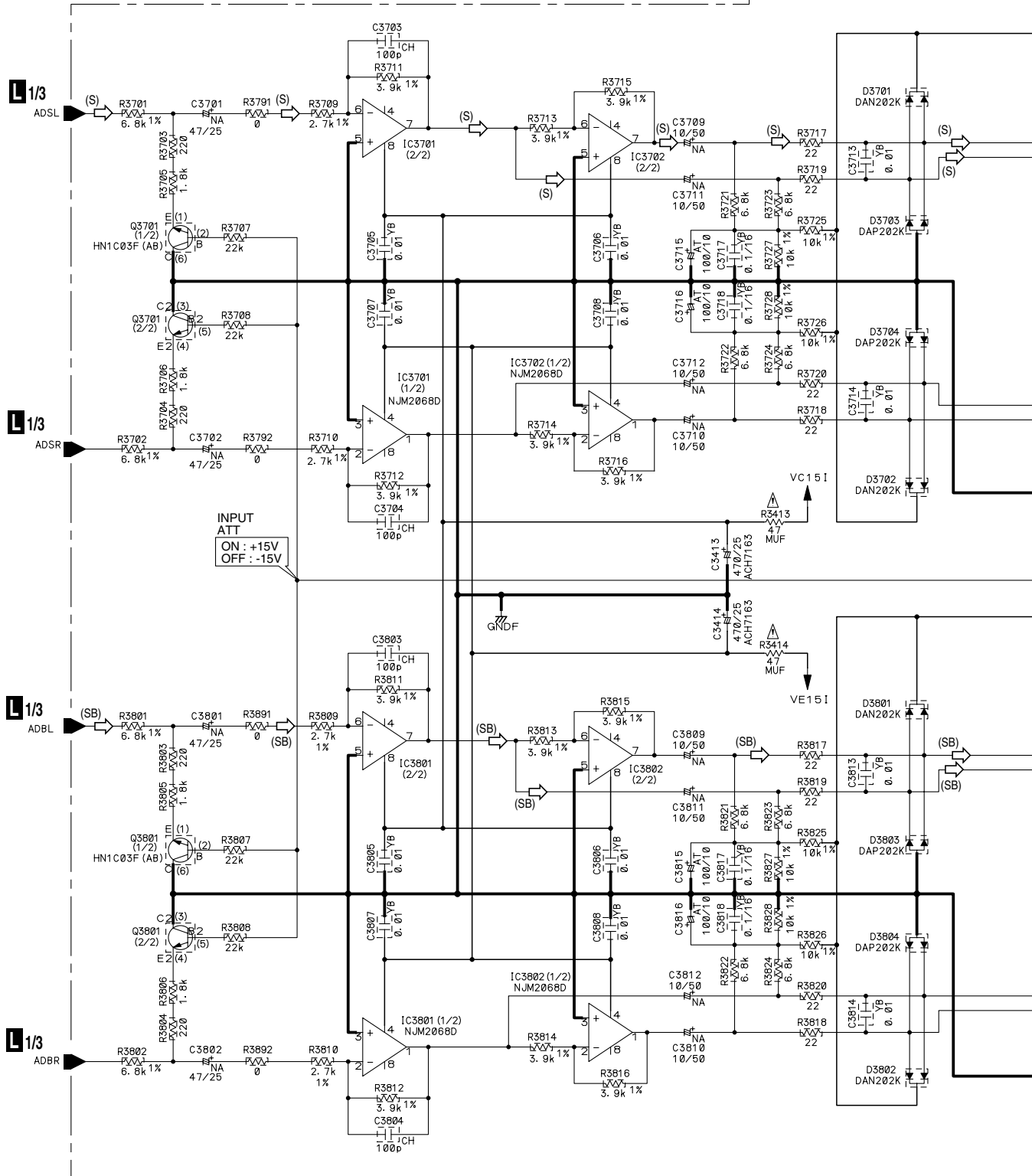
2. CAPACITORS

Unit: p-pF or μ F unless otherwise noted.
Rated Voltage: shown as "Capacity(μ F)/Voltage(V)",
or 50V unless otherwise noted.

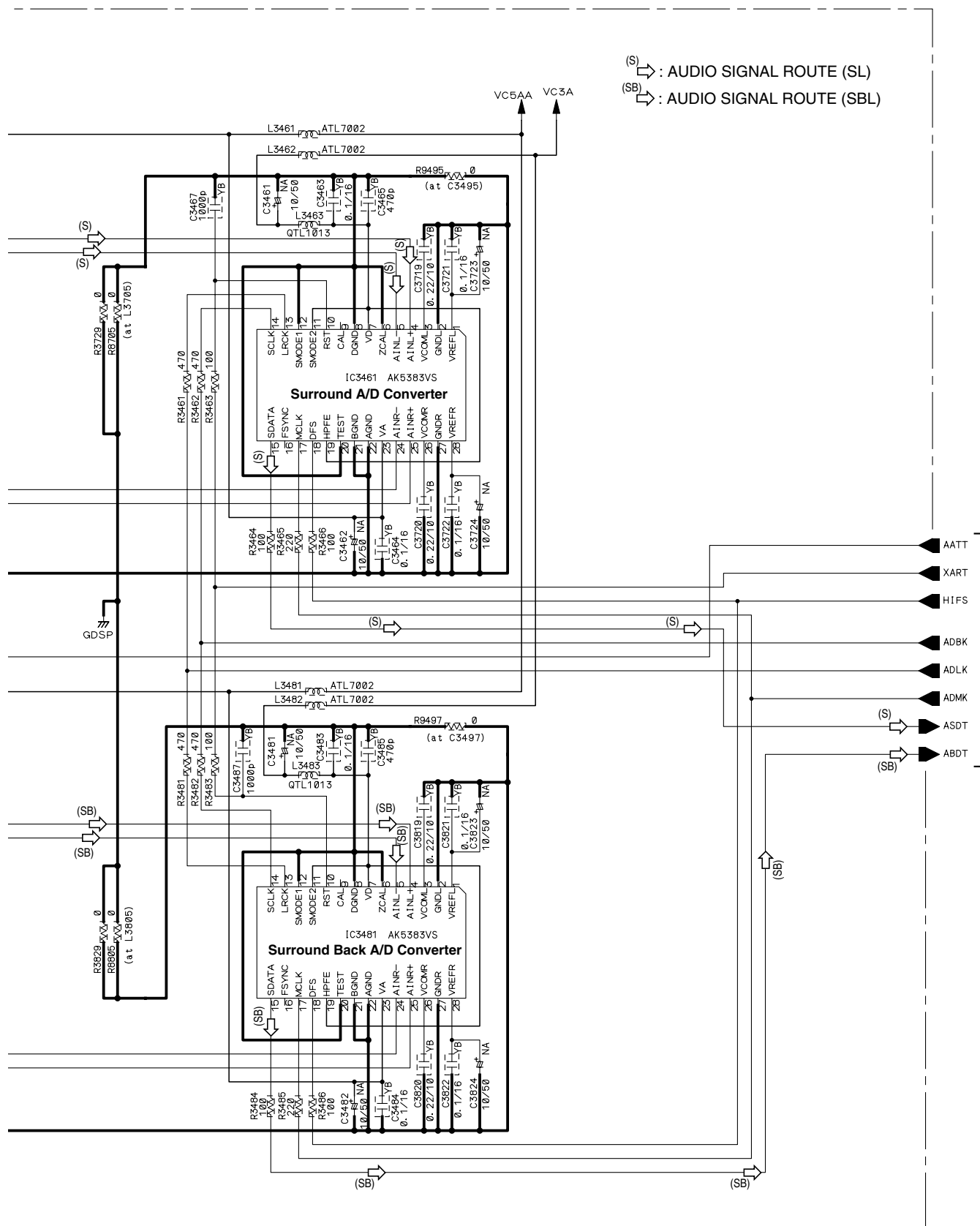
AT : CEAT , NA : CENA

Parts or parts block marked by "" or "STBY" are standby.

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.



(S) ➡ : AUDIO SIGNAL ROUTE (SL)
(SB) ➡ : AUDIO SIGNAL ROUTE (SBL)



4



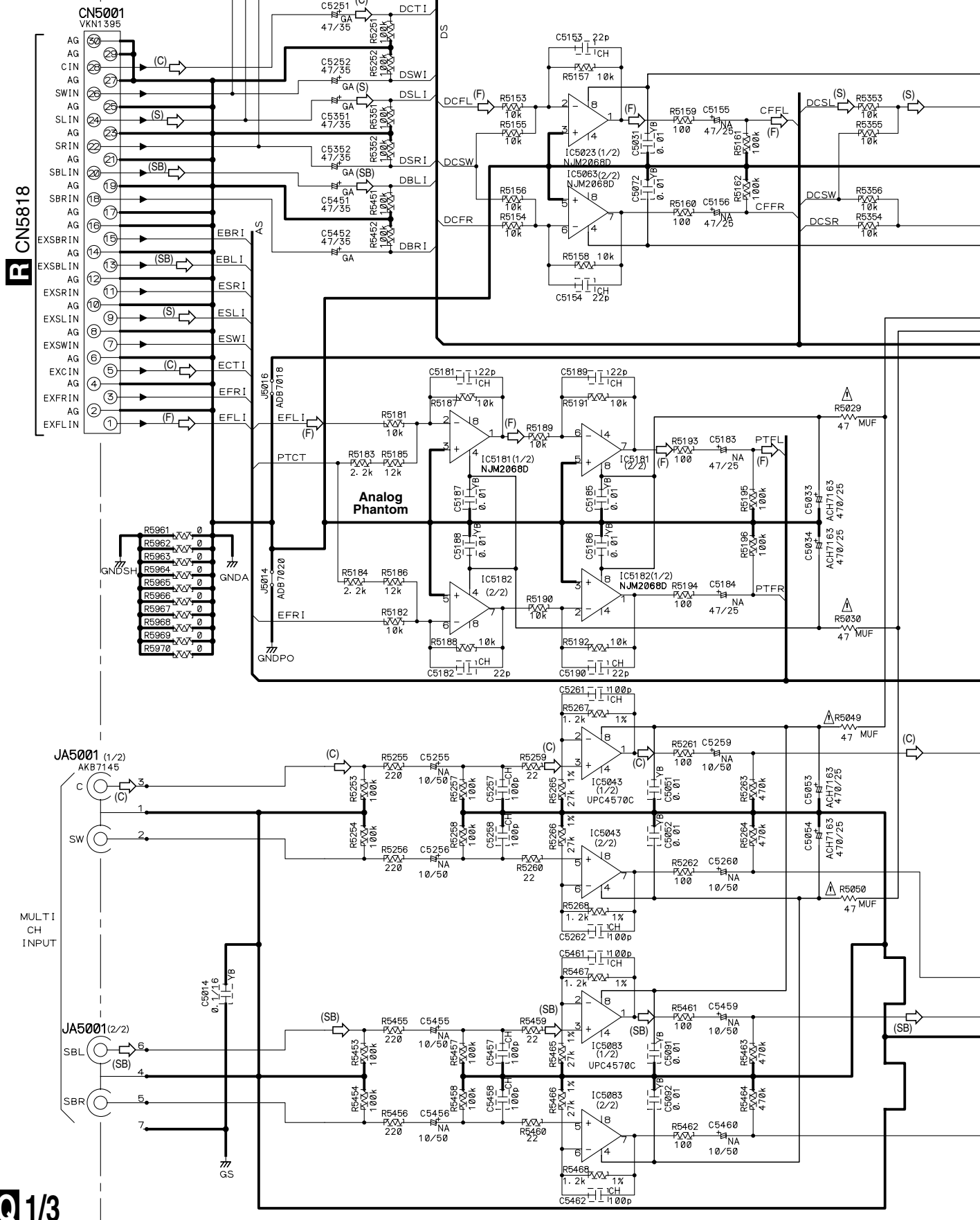
=====> EN/EN1 => SOURCE

R

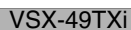
50

3.14 VR & PRE OUT ASSY(1/3)

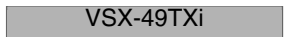
Q 1/3 VR & PRE OUT ASSY (AWX7888)



4

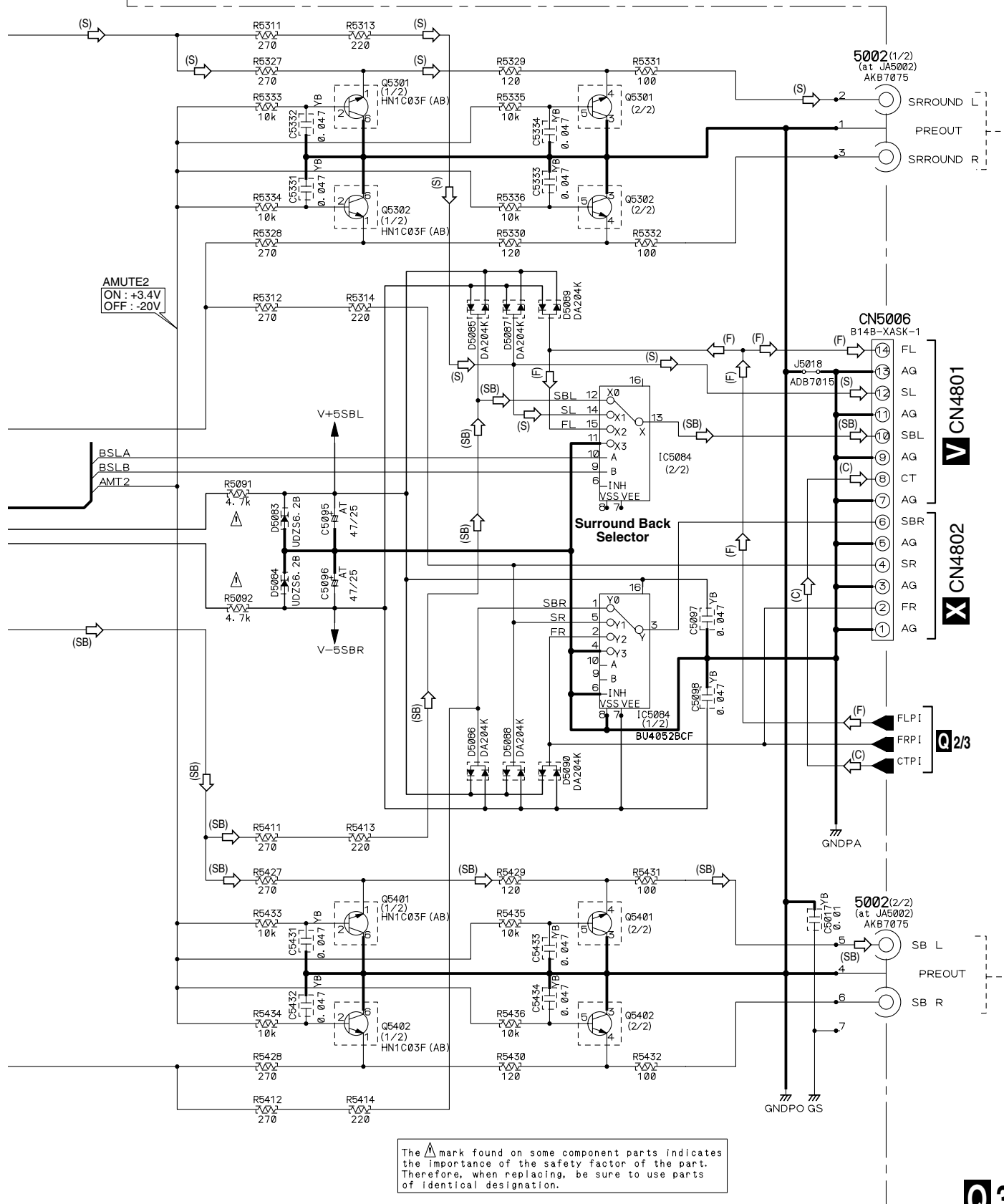


Q 3/3

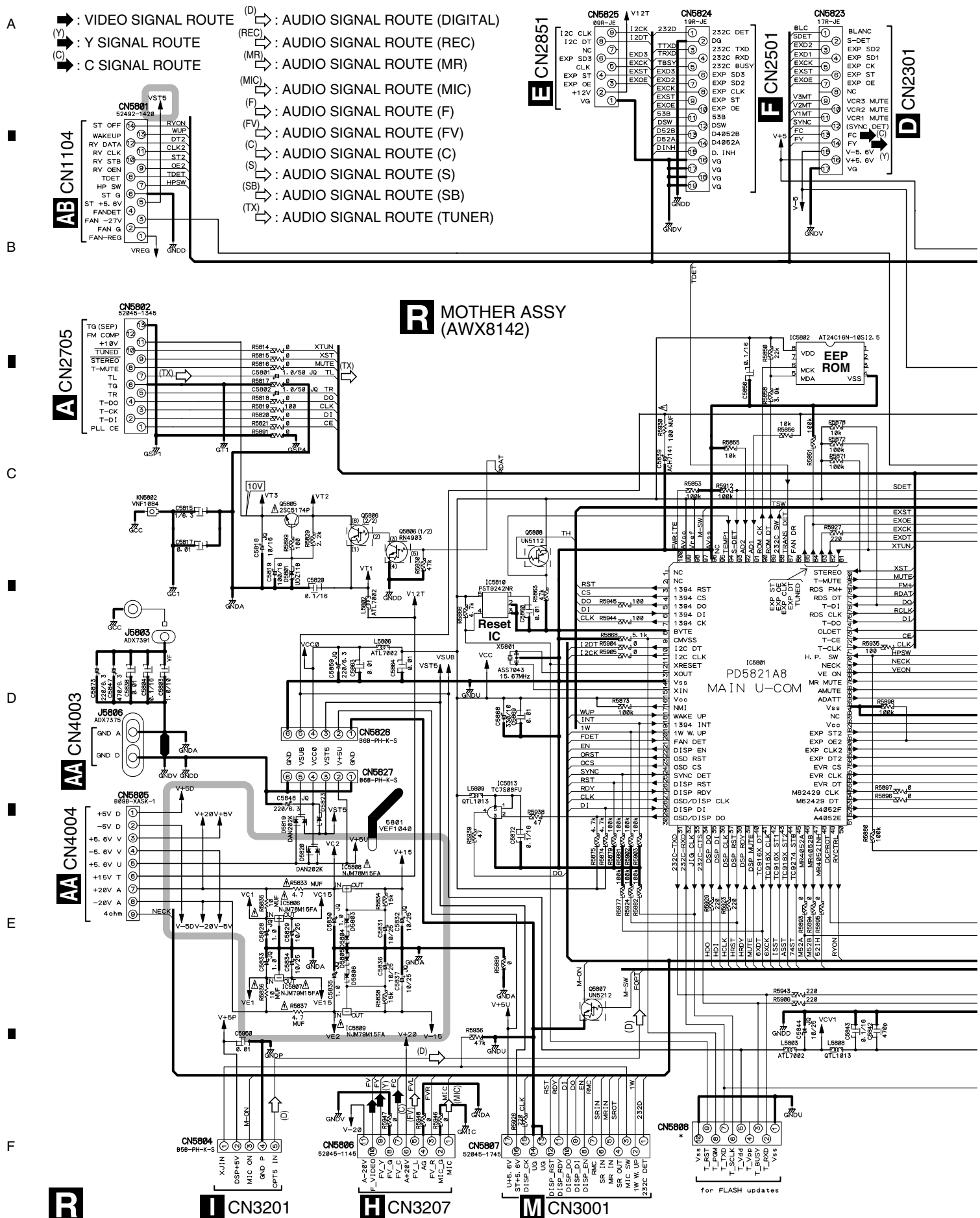


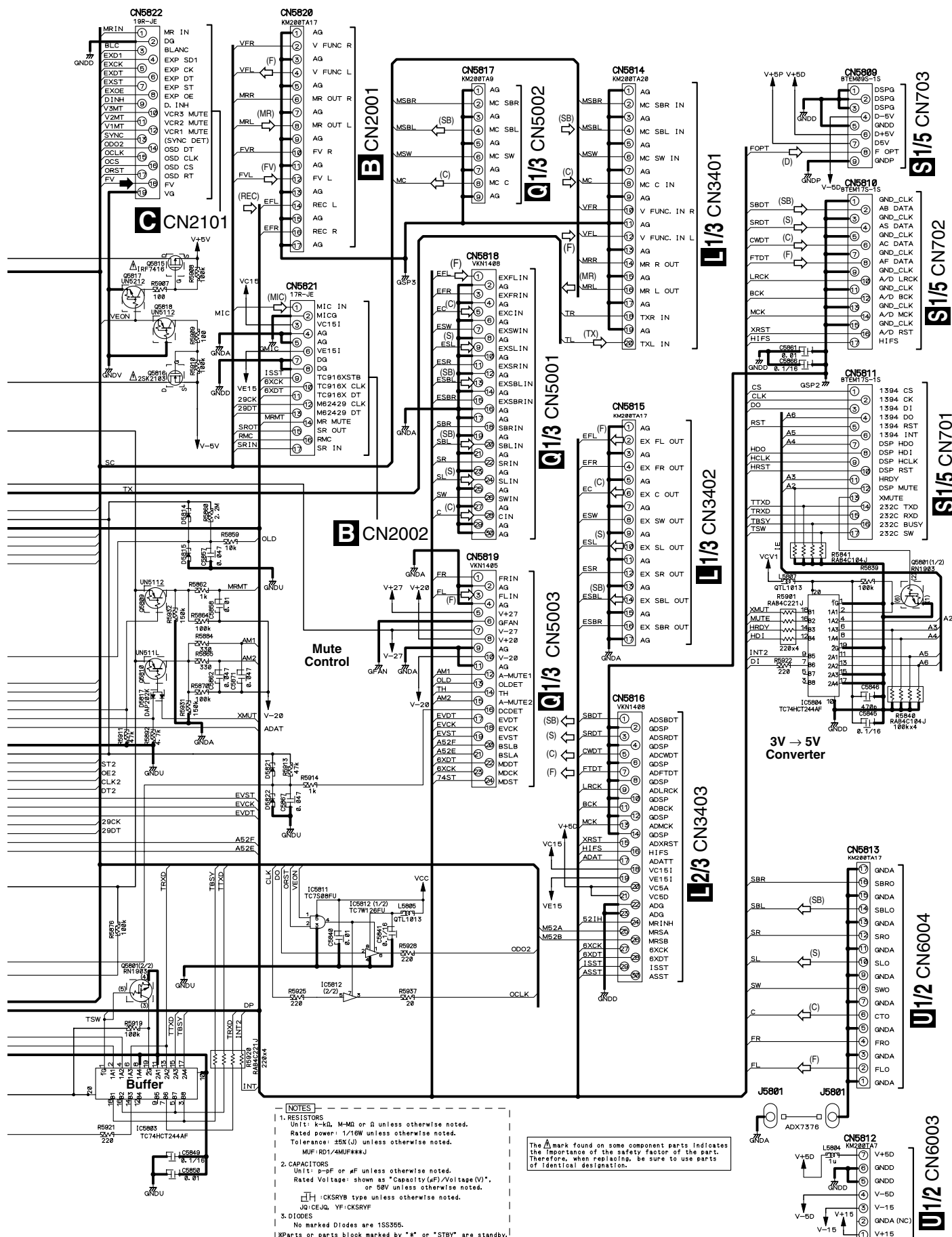
Q 3/3 VR & PRE OUT ASSY (AWX7888)

(F) : AUDIO SIGNAL ROUTE (F)
 (C) : AUDIO SIGNAL ROUTE (C)
 (S) : AUDIO SIGNAL ROUTE (S)
 (SB) : AUDIO SIGNAL ROUTE (SB)



3.17 MOTHER ASSY





3.18 DSP ASSY(1/5)

A

B

C

D

E

F

S 1/5
DSP ASSY (AWK7762)

S 5/5

S 3/5

R CN5809

AA CN4005

AO 1/2 CN401

S 5/5

S 3/5

S 2/5

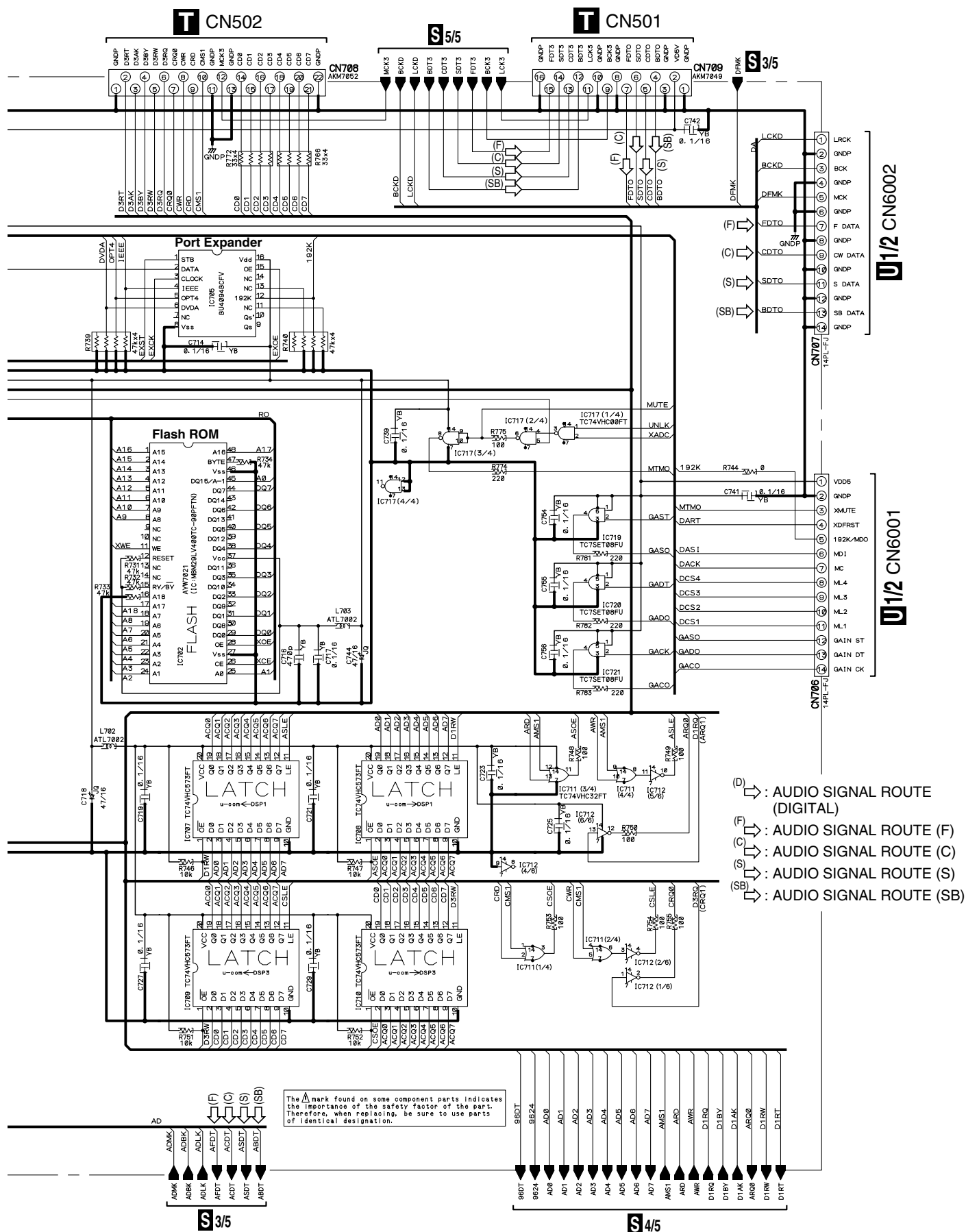
R CN5811

R CN5810

VSX-49TXi

- NOTES
1. RESISTORS
Unit: k- Ω , M-M Ω or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: $\pm 5\%$ (J) unless otherwise noted.
 2. CAPACITORS
Unit: p-pF or μ F unless otherwise noted.
Rated Voltage: shown as "Capacity(μ F)/Voltage(V)", or 50V unless otherwise noted.
JQ: CEQ
 3. DIODES
No Marked Diodes are 1SS355.
- *Parts or parts block marked by "*" or "STBY" are standby.

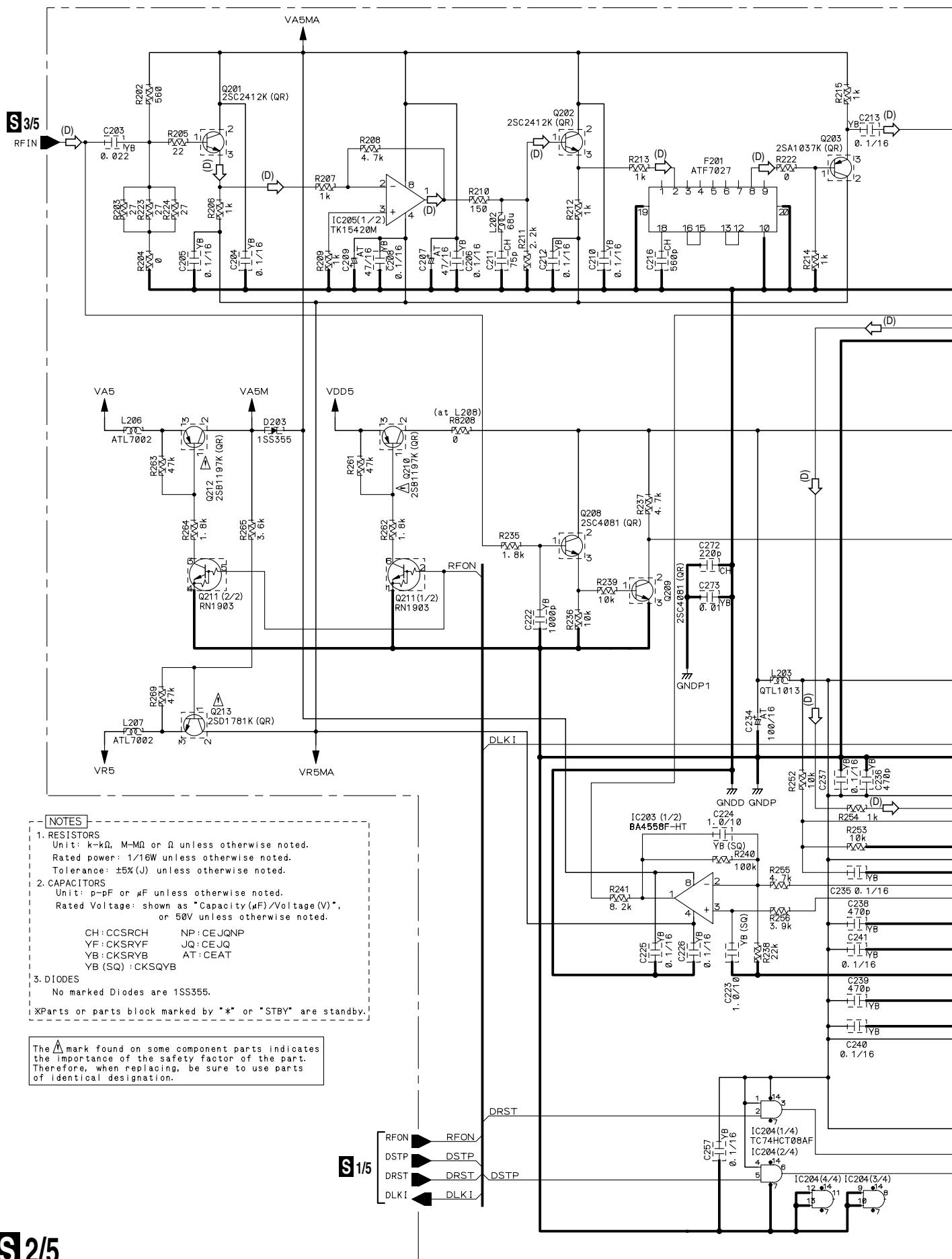
S 1/5



The power supply is shown with the marked box.

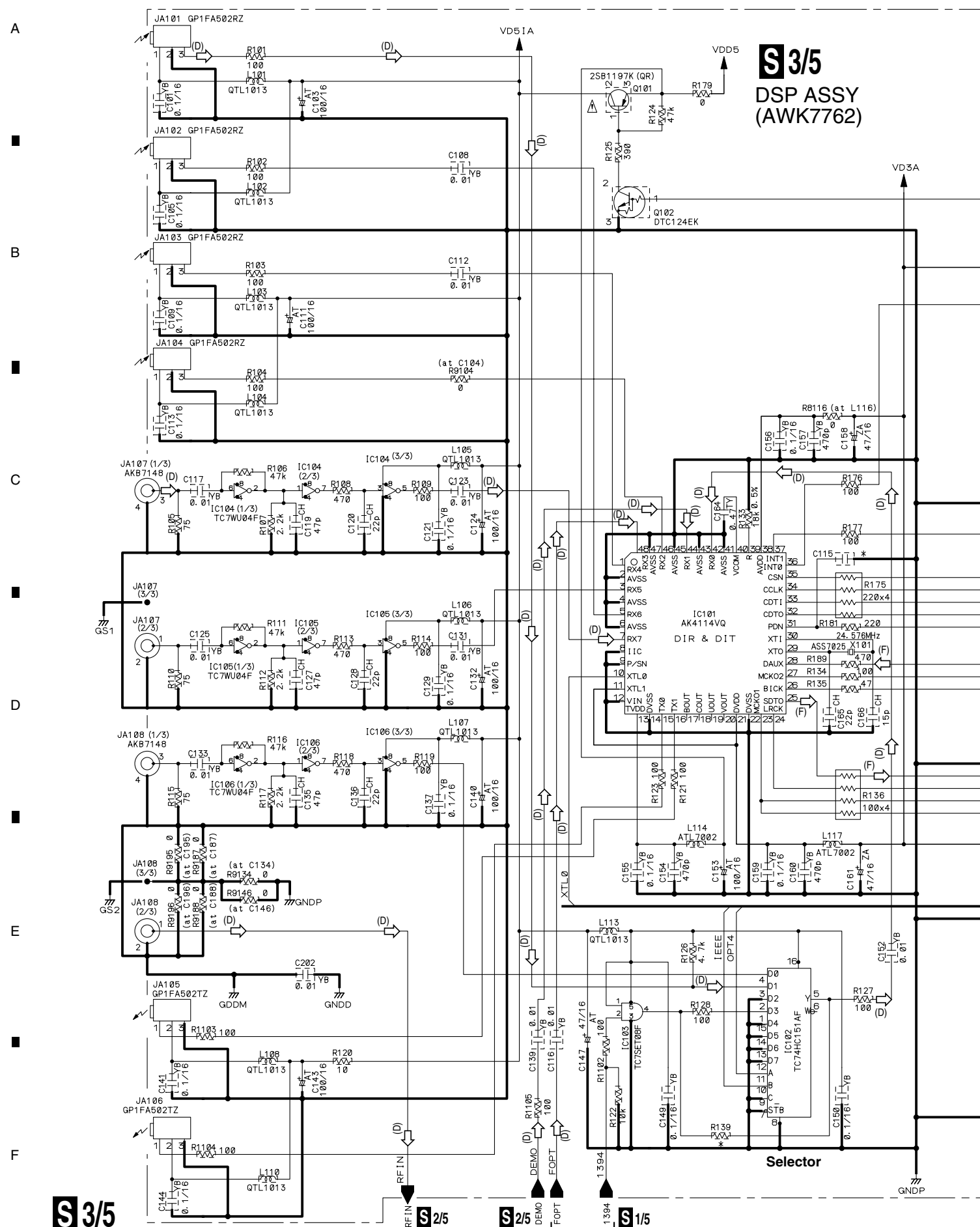
S 1/5

3.19 DSP ASSY(2/5)





S 3/5
DSP ASSY
(AWK7762)



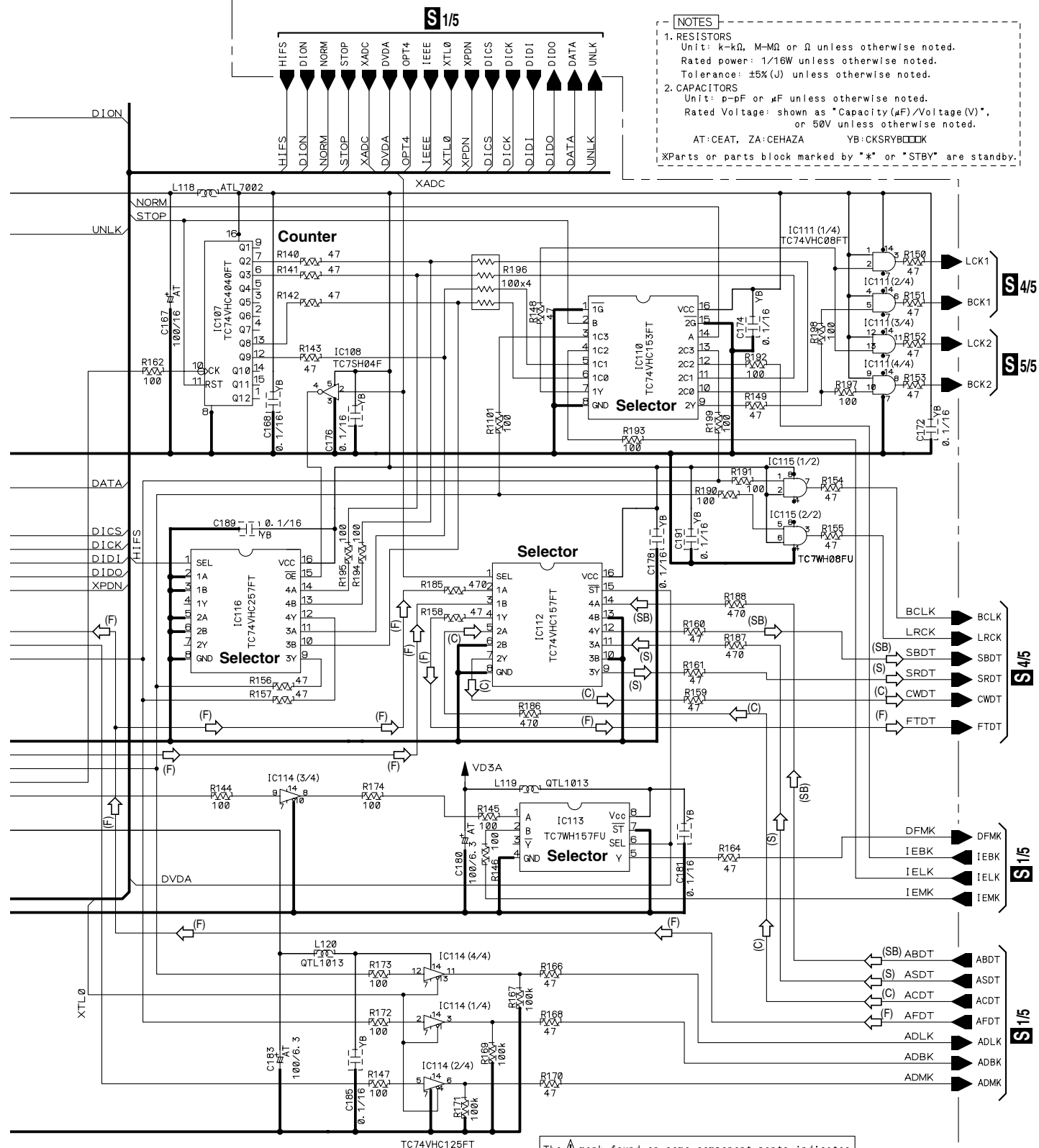
(D) : AUDIO SIGNAL ROUTE
(DIGITAL)

(F) : AUDIO SIGNAL ROUTE (F)

(C) : AUDIO SIGNAL ROUTE (C)

(S) : AUDIO SIGNAL ROUTE (S)

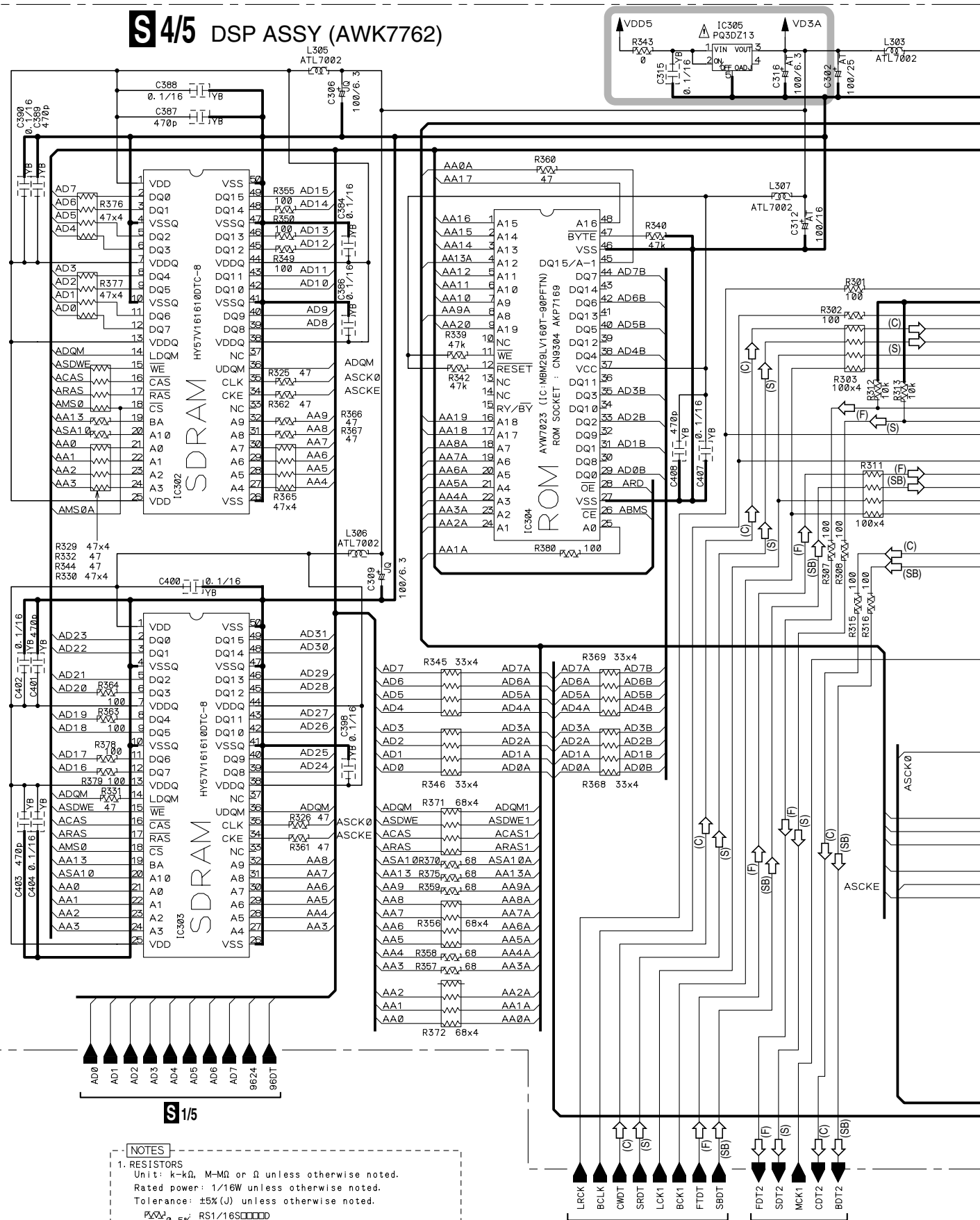
(SB) : AUDIO SIGNAL ROUTE (SB)



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.

3.21 DSP ASSY(4/5)

S4/5 DSP ASSY (AWK7762)

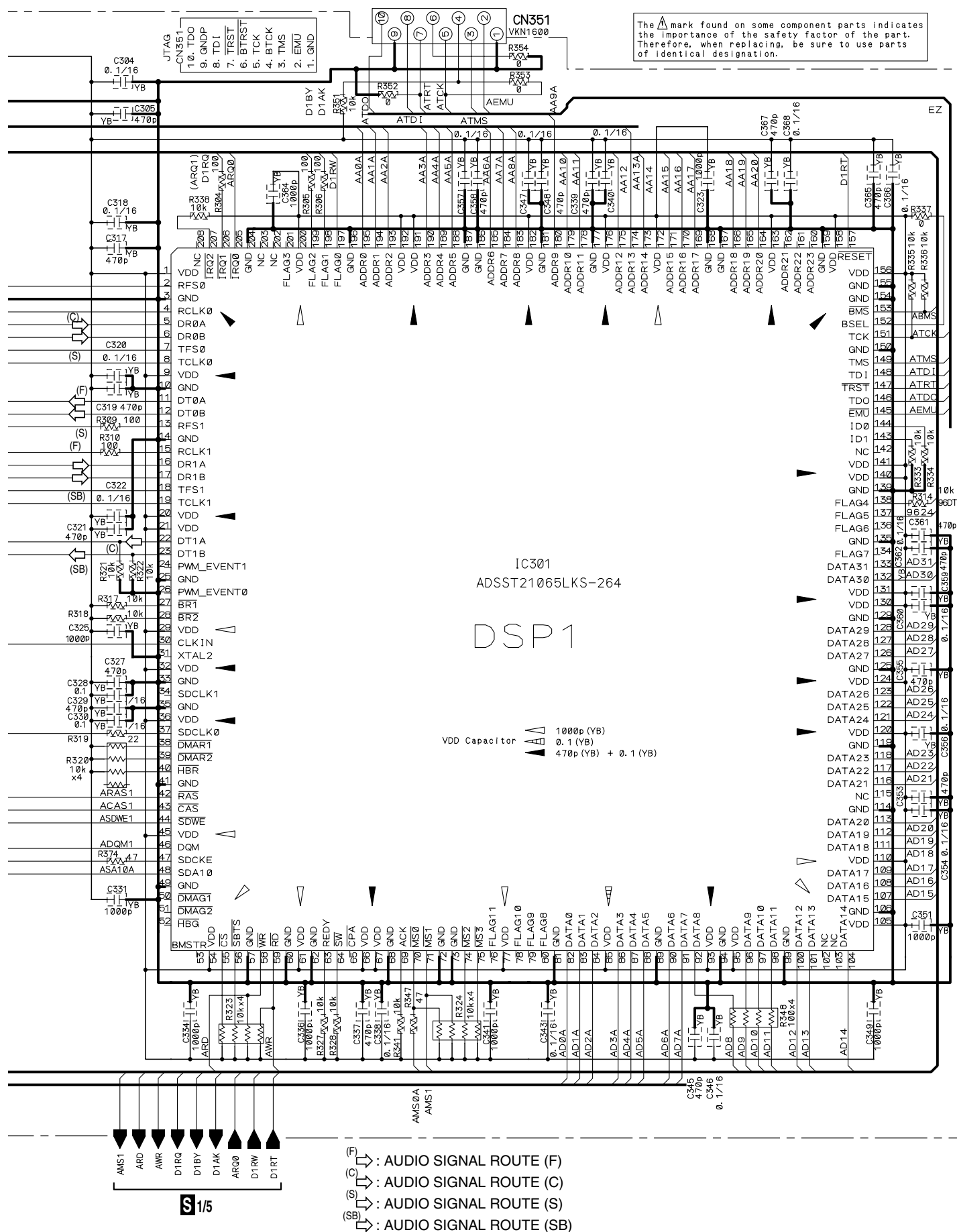


S1/5

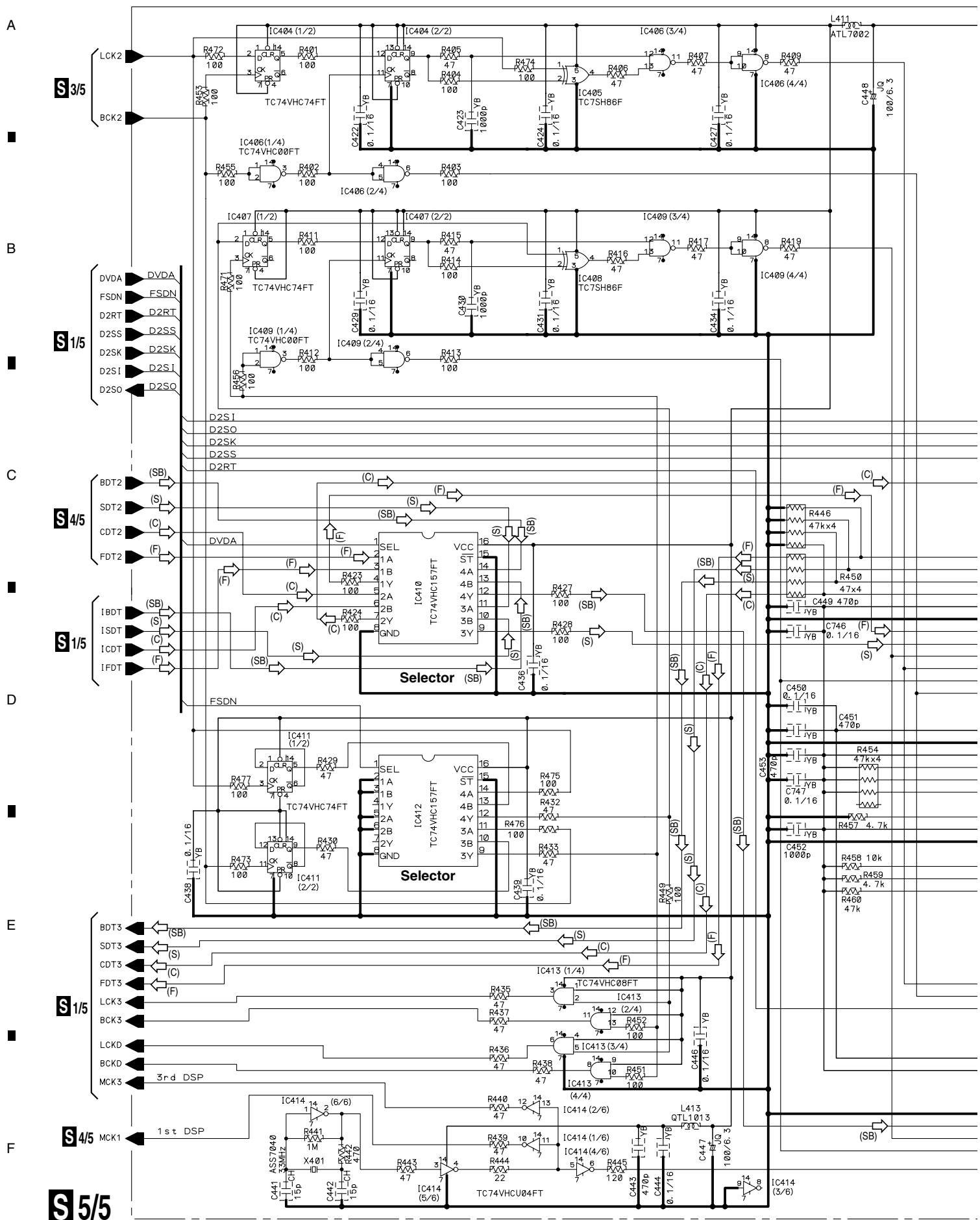
NOTES

- RESISTORS
Unit: k- Ω , M- Ω or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: $\pm 5\%$ (J) unless otherwise noted.
PXX 0.5% RS1/16SXXXXXX
- CAPACITORS
Unit: p-pF or μ F unless otherwise noted.
Rated Voltage: shown as "Capacity(μ F)/Voltage(V)", or 50V unless otherwise noted.
XParts or parts block marked by "*" or "STBY" are standby.

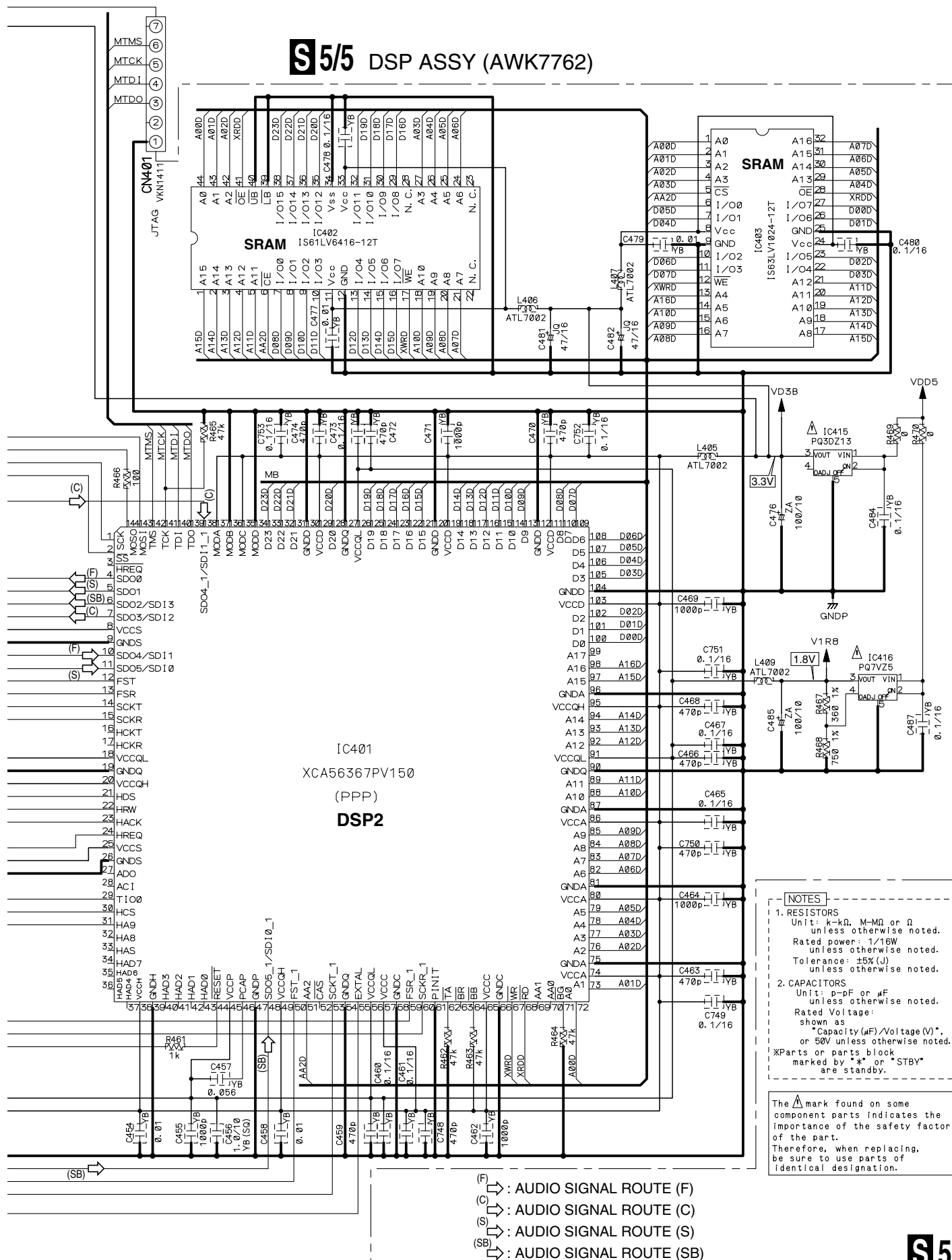
VSX-49TXi



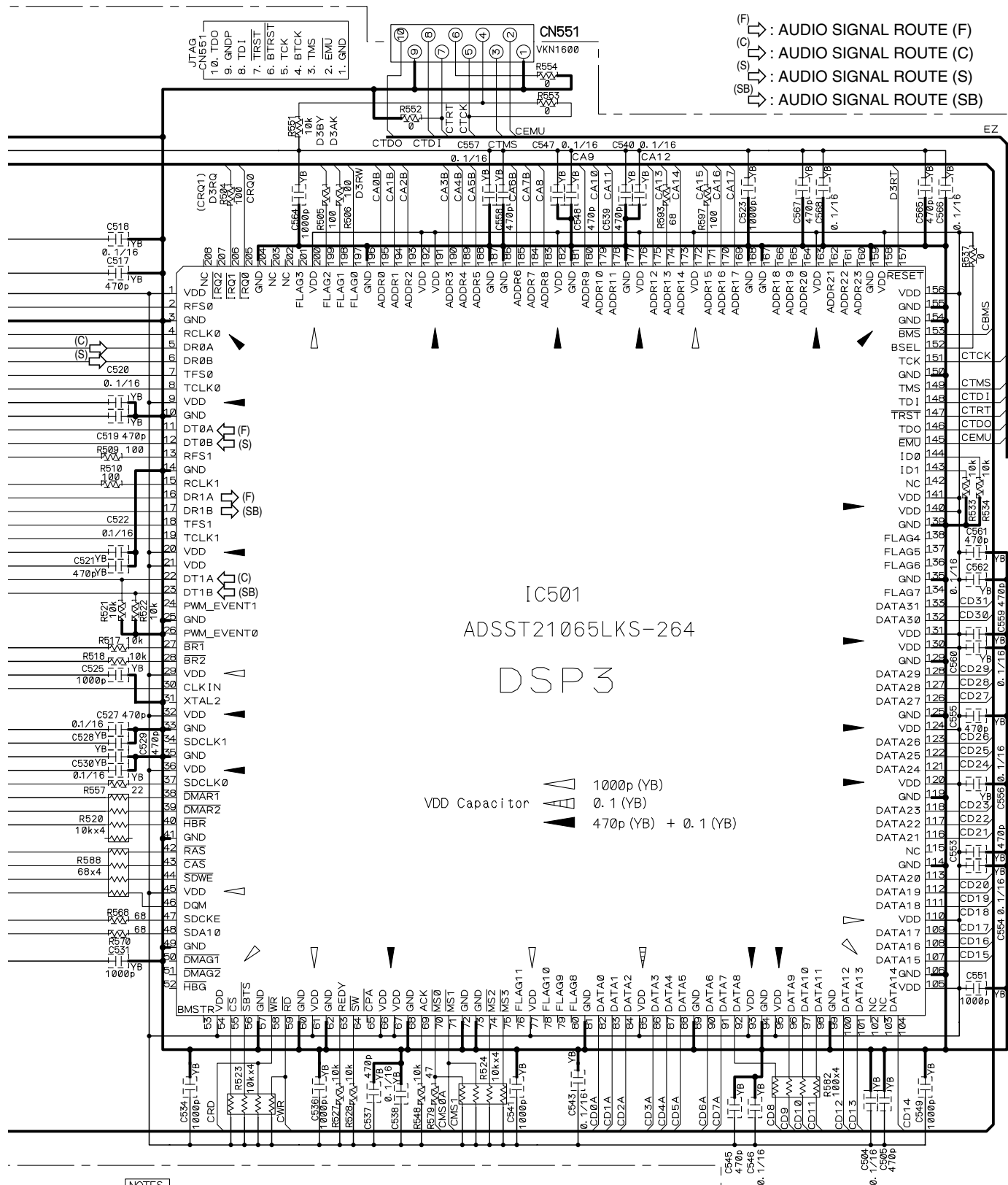
3.22 DSP ASSY(5/5)



S5/5 DSP ASSY (AWK7762)



4



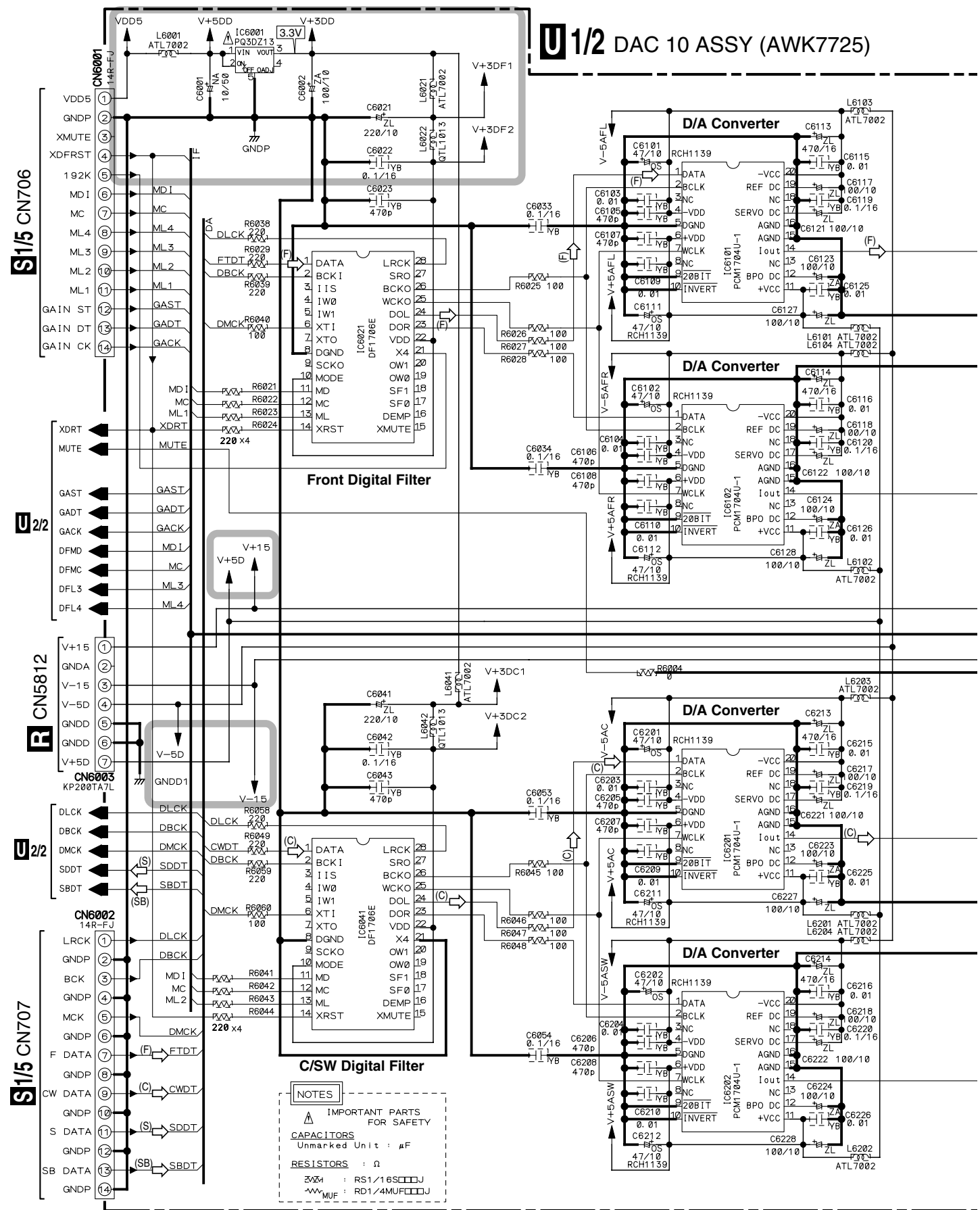
NOTES

1. RESISTORS
Unit: k= Ω , M=M Ω or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: $\pm 5\%$ (Ω) unless otherwise noted.
XParts: 0.5% : RS116SIIII
2. CAPACITORS
Unit: p=pF or μ F unless otherwise noted.
Rated Voltage:
shown as "Capacity (μ F)/Voltage (V)",
or 50V unless otherwise noted.
- XParts or parts block
marked by "*" or "STBY" are standby.

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

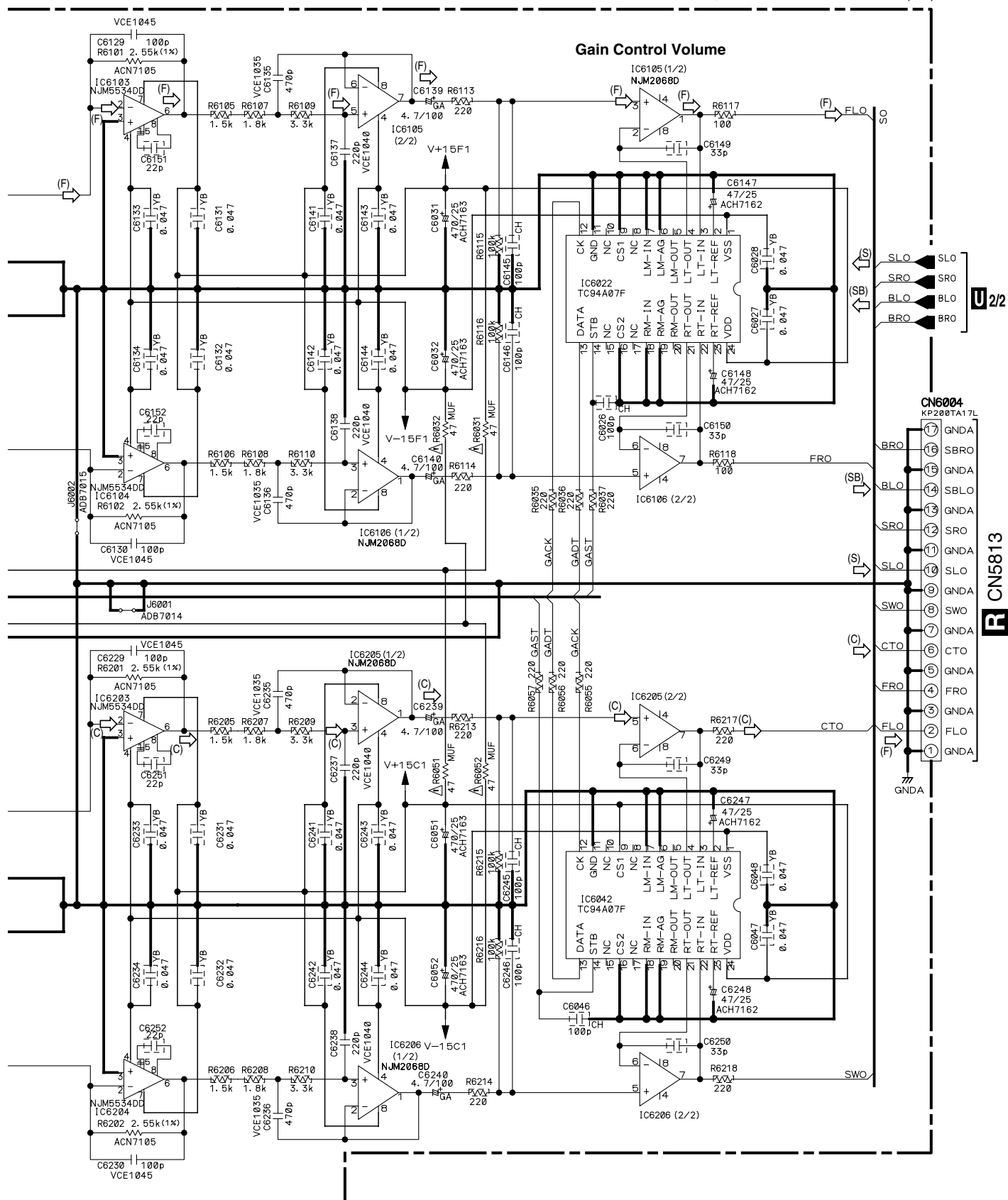
: The power supply is shown with the marked box.

3.24 DAC10 ASSY(1/2)



 : The power supply is shown with the marked box.

(F) : AUDIO SIGNAL ROUTE (F)
 (C) : AUDIO SIGNAL ROUTE (C)
 (S) : AUDIO SIGNAL ROUTE (S)
 (SB) : AUDIO SIGNAL ROUTE (SB)



3.25 DAC10 ASSY(2/2)

A

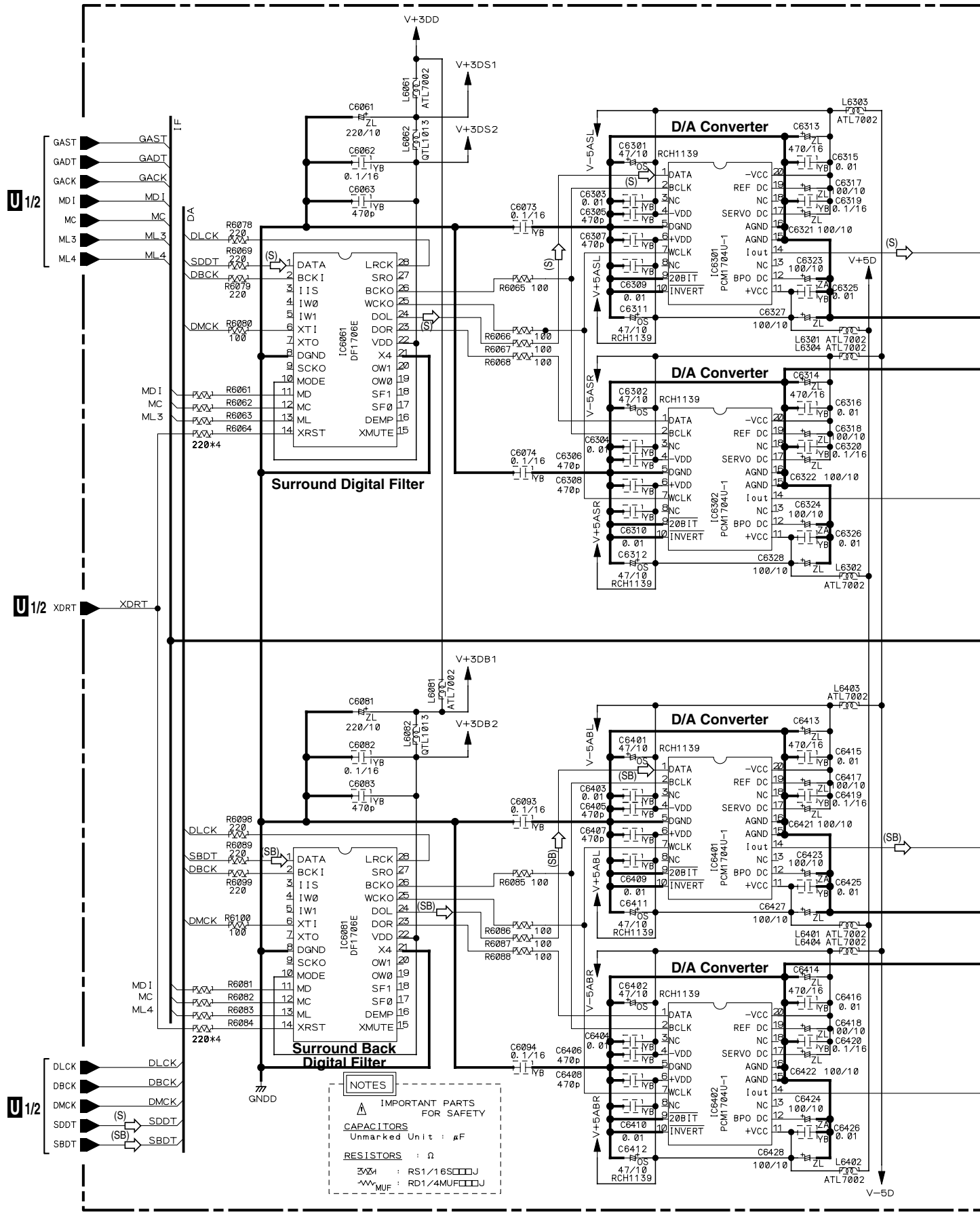
B

C

D

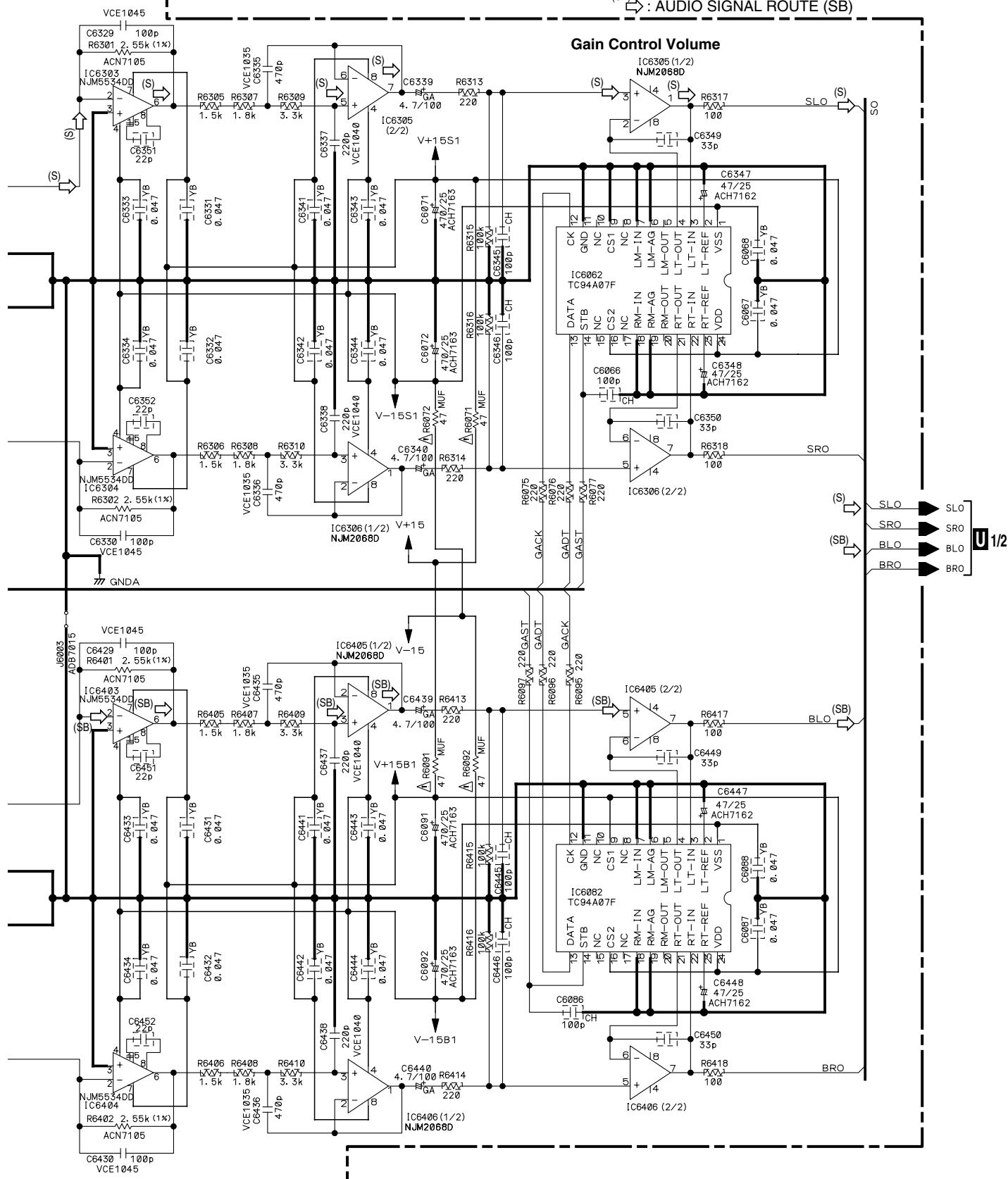
E

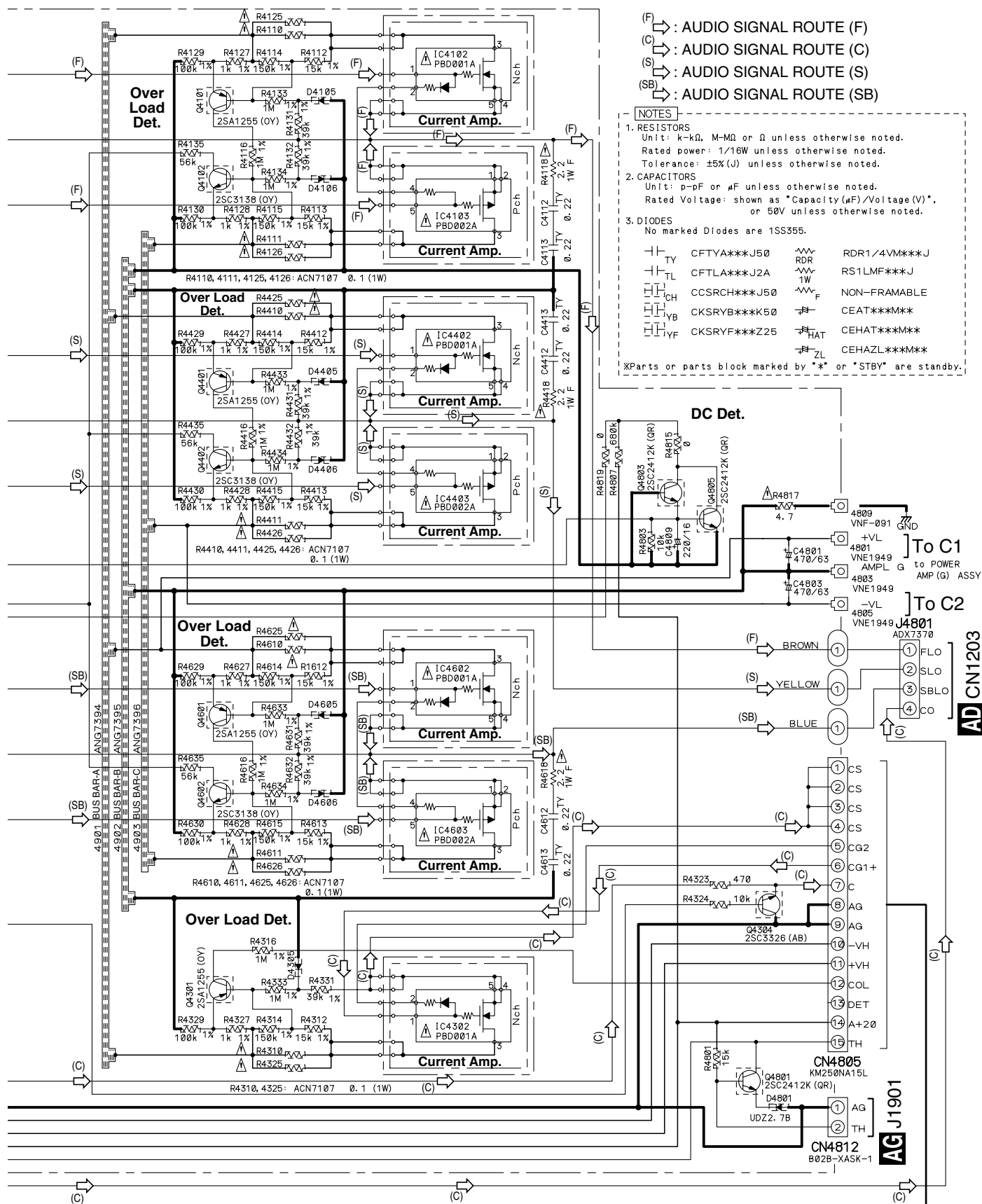
F



U 2/2 DAC 10 ASSY (AWK7725)

(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)





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.

3.27 POWER AMP(R), POWER AMP(BR) and POWER AMP(G) ASSYS

A
B
C
D
E
F

X POWER AMP (R) ASSY
(AWX7883)

FR

Voltage Amp.

SR

Voltage Amp.

SBR

Voltage Amp.

Q1/3 CN5005

AMUTE1
OL
DC
+VH
-VH
AG
AG
AG
AG

AMUTE1
OL
DC
+VH
-VH
AG
AG
AG
AG

AMUTE1
OL
DC
+VH
-VH
AG
AG
AG
AG

AMUTE1
OL
DC
+VH
-VH
AG
AG
AG
AG

AMUTE1
OL
DC
+VH
-VH
AG
AG
AG
AG

AMUTE1
OL
DC
+VH
-VH
AG
AG
AG
AG

AMUTE1
OL
DC
+VH
-VH
AG
AG
AG
AG

AMUTE1
OL
DC
+VH
-VH
AG
AG
AG
AG

AMUTE1
OL
DC
+VH
-VH
AG
AG
AG
AG

AMUTE1
OL
DC
+VH
-VH
AG
AG
AG
AG

AMUTE1
OL
DC
+VH
-VH
AG
AG
AG
AG

AMUTE1
OL
DC
+VH
-VH
AG
AG
AG
AG

AMUTE1
OL
DC
+VH
-VH
AG
AG
AG
AG

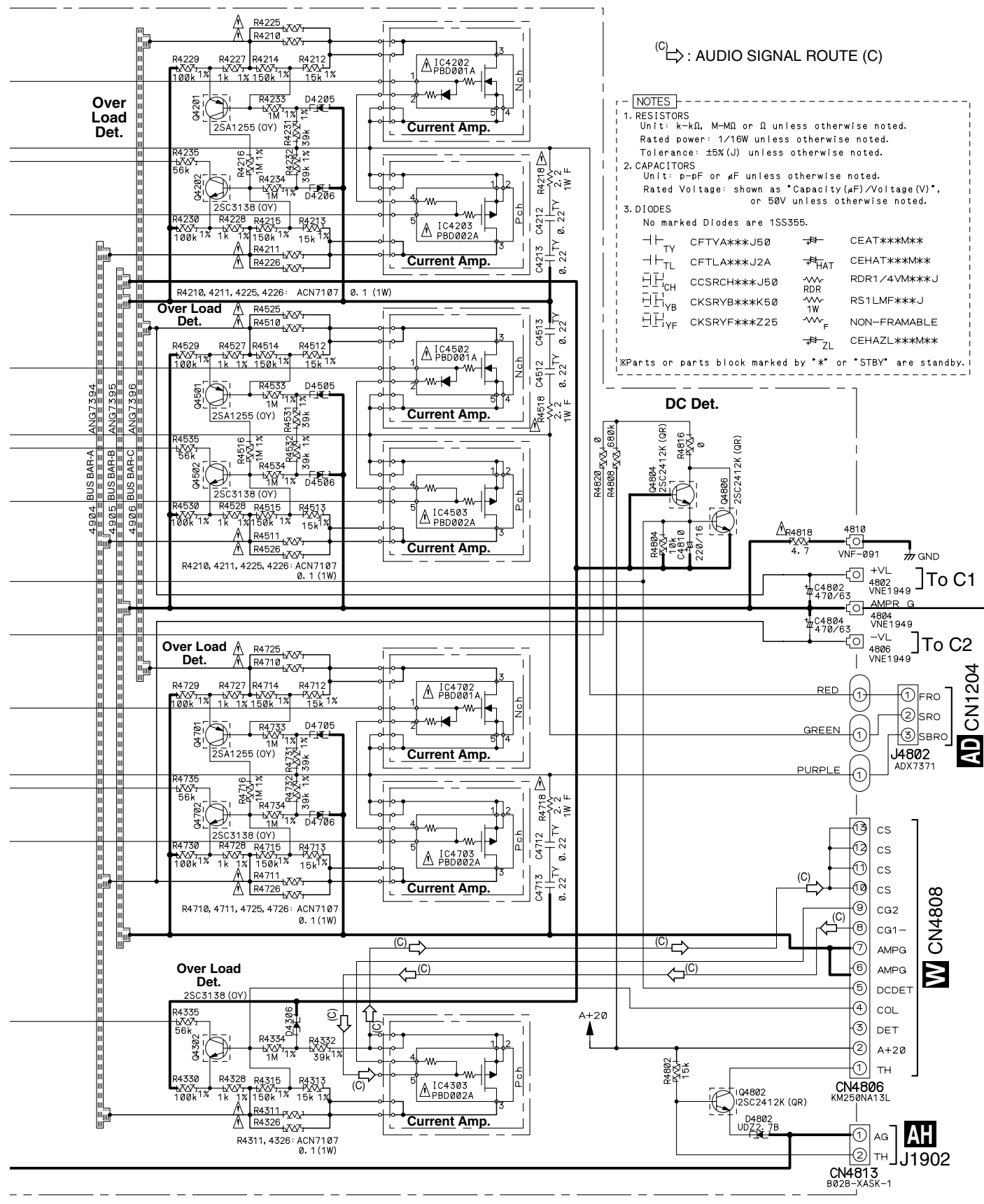
Y POWER AMP (BR) ASSY
(AWX7885)

VSX-49TXi

AD J1201

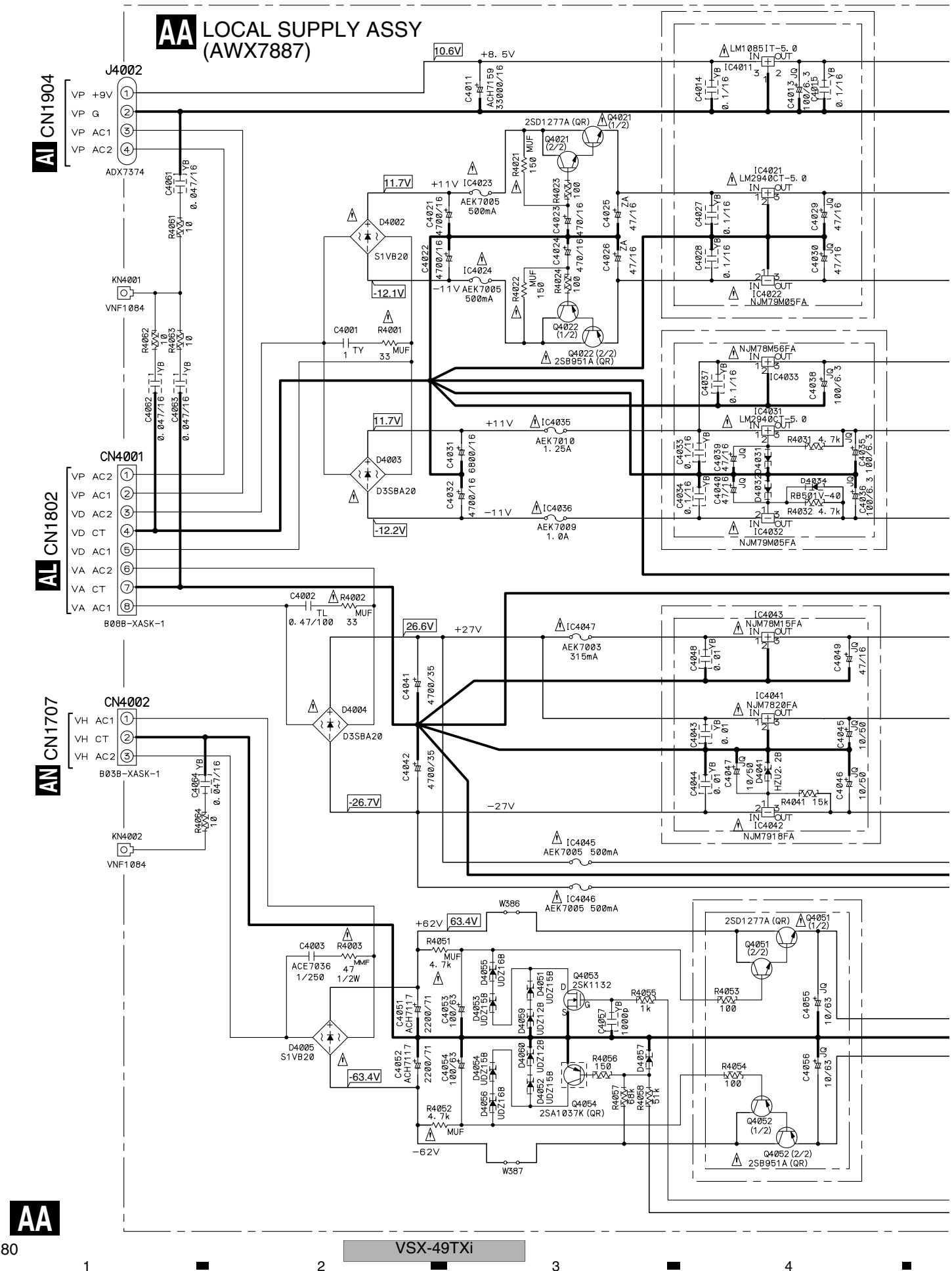
V

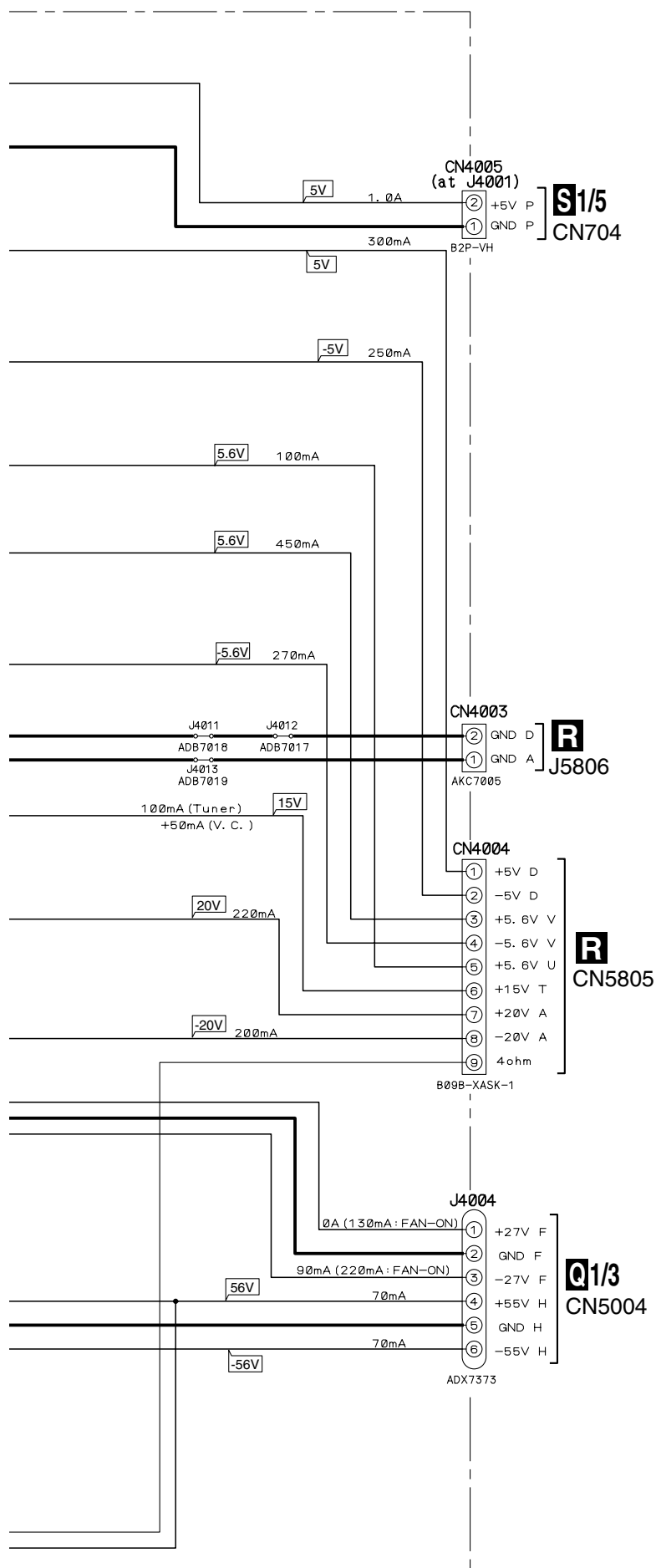
Z POWER AMP
(G) ASSY
(AWX7886)



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.

3.28 LOCAL SUPPLY ASSY





CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.315 FOR IC4047 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.500 FOR IC4023 AND IC4024 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.500 FOR IC4045 AND IC4046 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491001 FOR IC4036 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 4911.25 FOR IC4035 MFD, BY LITTELFUSE INC.

NOTES

- RESISTORS
Unit: k- Ω , M-M Ω or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: $\pm 5\%$ (J) unless otherwise noted.

$\sim \sim \sim$ MUF RD1/8MUF***J $\sim \sim \sim$ MMF RD1/2MMF***J

- CAPACITORS
Unit: p-pF or μ F unless otherwise noted.
Rated Voltage: shown as "Capacity (μ F)/Voltage (V)", or 50V unless otherwise noted.

$\text{---} \text{---} \text{---}$ TY CFTYA***J50 $\text{---} \text{---} \text{---}$ CEAT***M***
 $\text{---} \text{---} \text{---}$ TL CFTLA***J2A $\text{---} \text{---} \text{---}$ ZA CEHAZA***M***
 $\text{---} \text{---} \text{---}$ VB CKSRYB***K*** $\text{---} \text{---} \text{---}$ JQ CEJQ***M***

- DIODES
No marked Diodes are 1SS355.

Parts or parts block marked by "" or "STBY" are standby.

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.

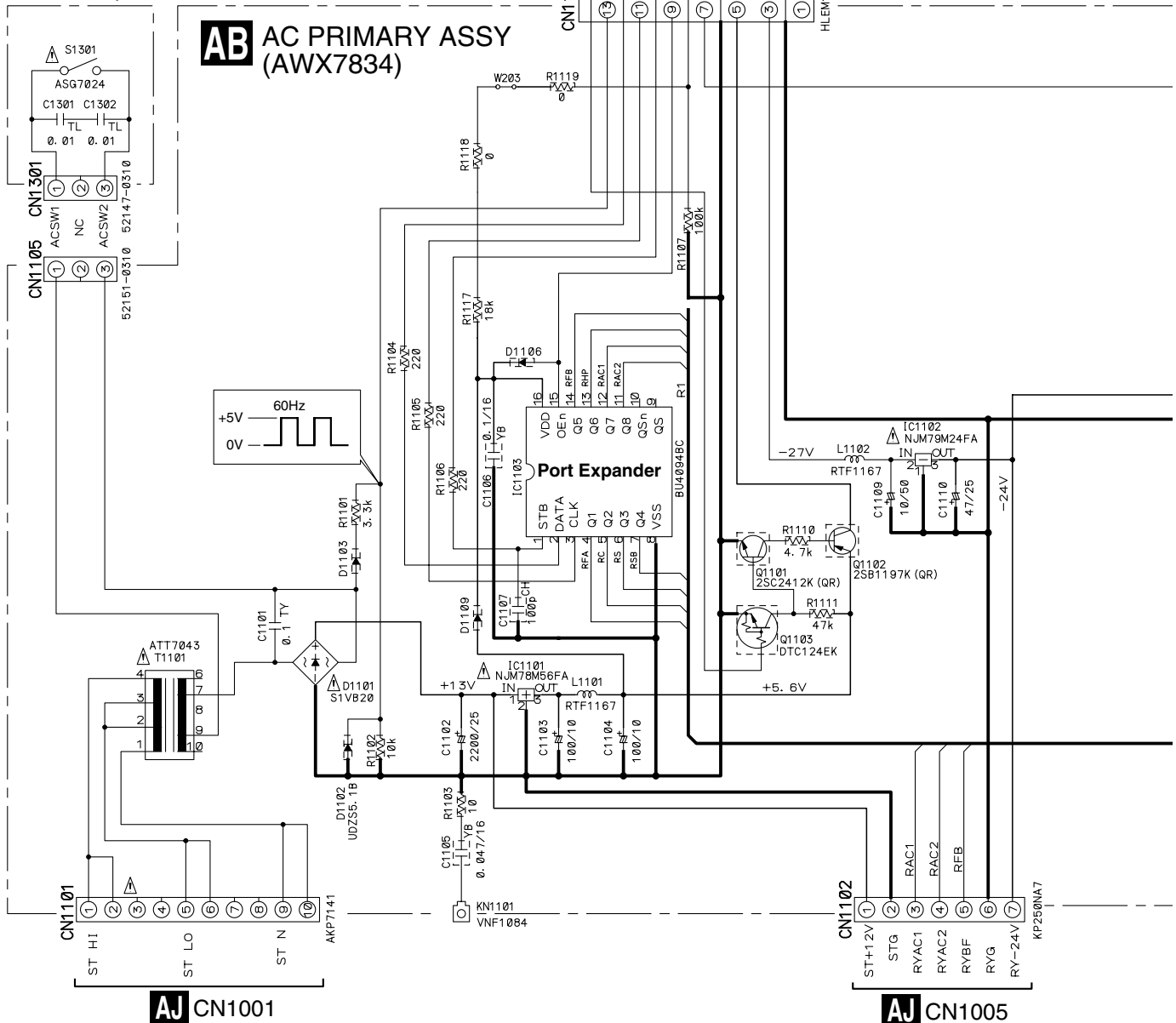
3.29 AC PRIMARY, POWER SW, SP(A), FL SUPPLY and STANDBY ASSYS

A

AC POWER SW ASSY (AWX7840)

AB AC PRIMARY ASSY (AWX7834)

R CN5801



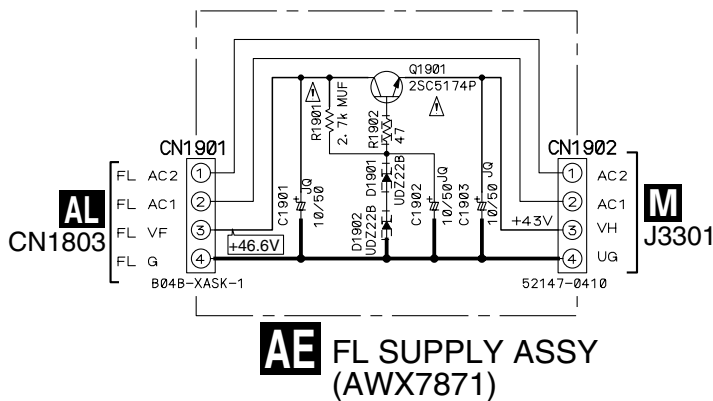
B

C

D

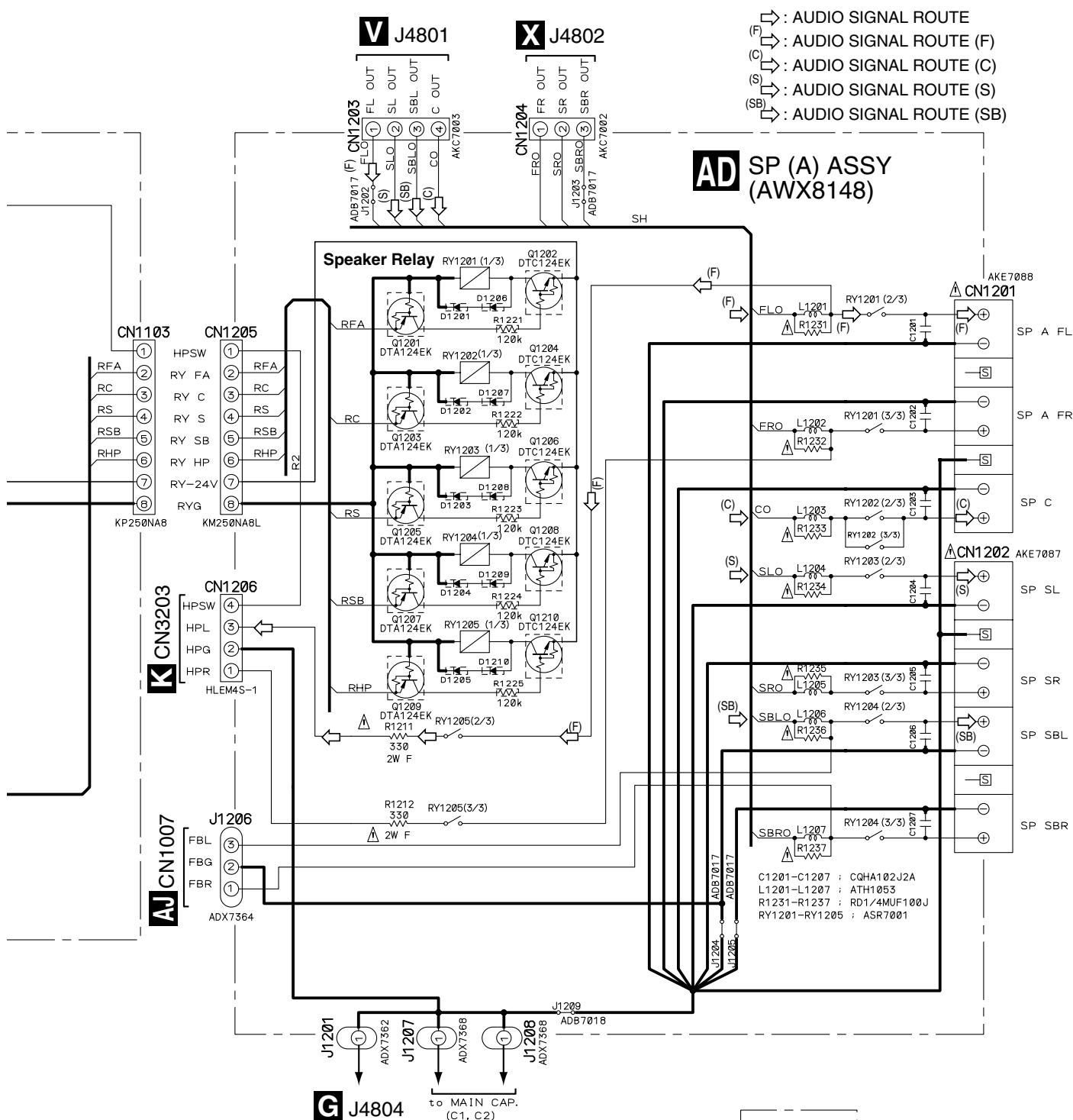
E

F



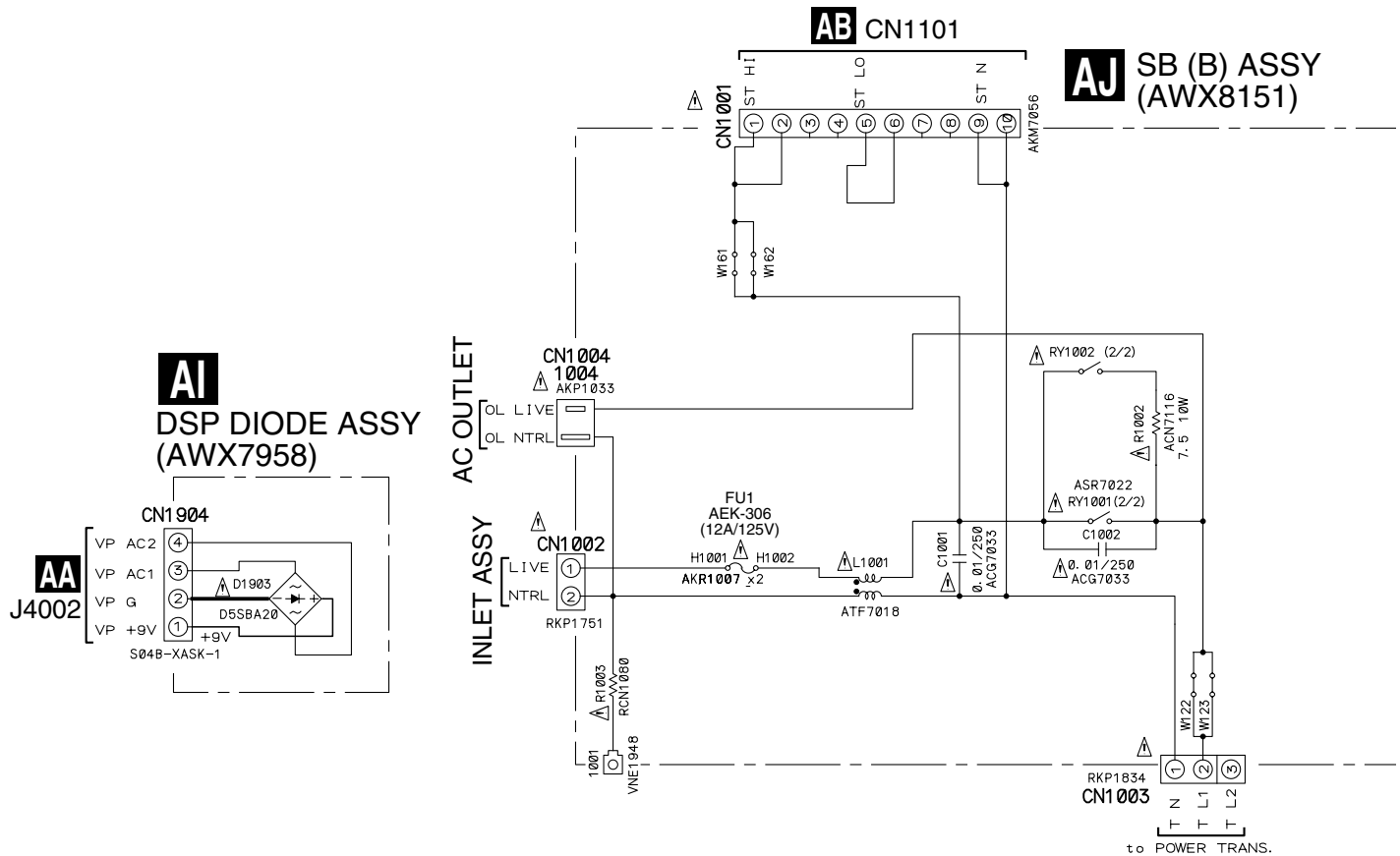
- NOTES**
1. RESISTORS
Unit: k- Ω , M-M Ω or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: $\pm 5\%$ (J) unless otherwise noted.
 2. CAPACITORS
Unit: p-pF or μ F unless otherwise noted.
Rated Voltage: shown as "Capacity (μ F) / Voltage (V)", or 50V unless otherwise noted.
 3. DIODES
No marked Diodes are 1SS355.
 4. VOLTAGE
Indicated in DC Voltage.
- $\text{---} \times \text{---}$ RS1/16S***J $\text{---} \text{CH}$ CCSRCH***J**
 $\text{---} \text{TY}$ CFTYA***J50 $\text{---} \text{YB}$ CKSRYB***K**
 $\text{---} \text{TL}$ CFTLA***J** --- CEAT***M**
 $\text{---} \text{JQ}$ CEJQ***M**
- XParts or parts block marked by "*" or "STBY" are standby.

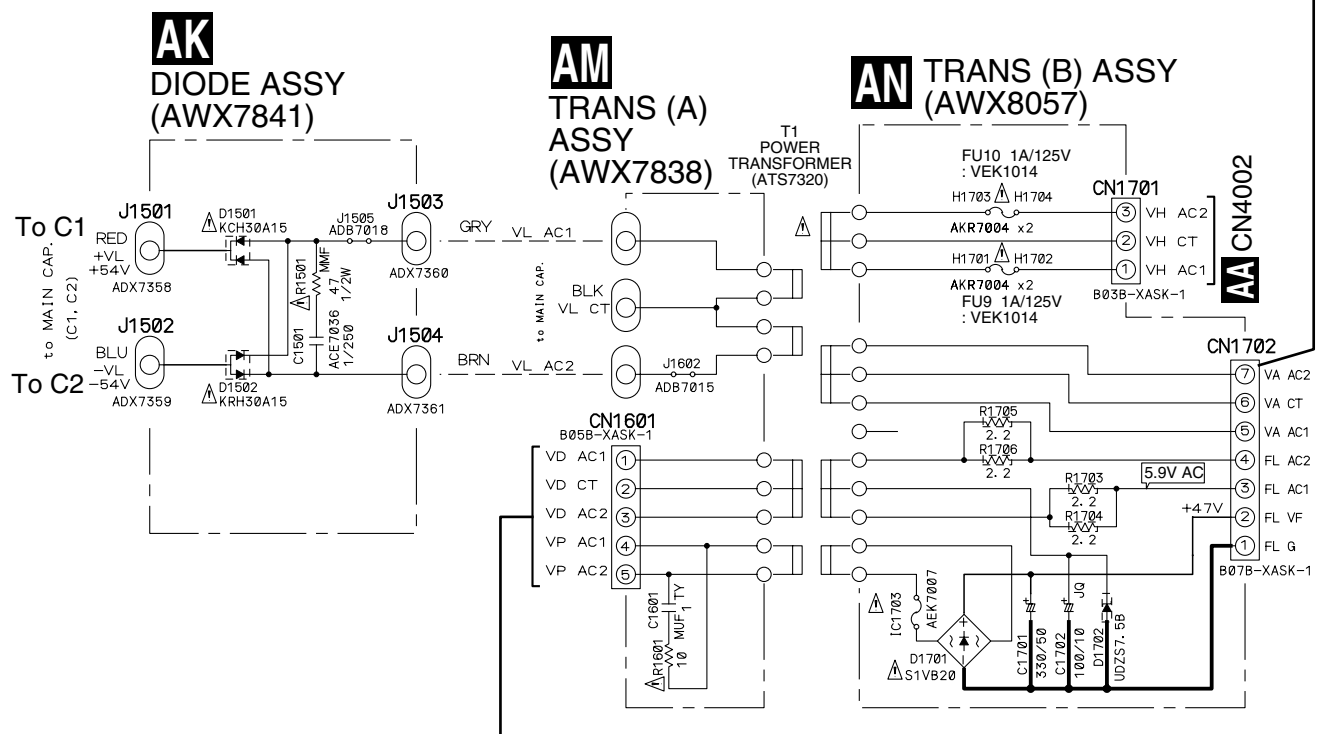
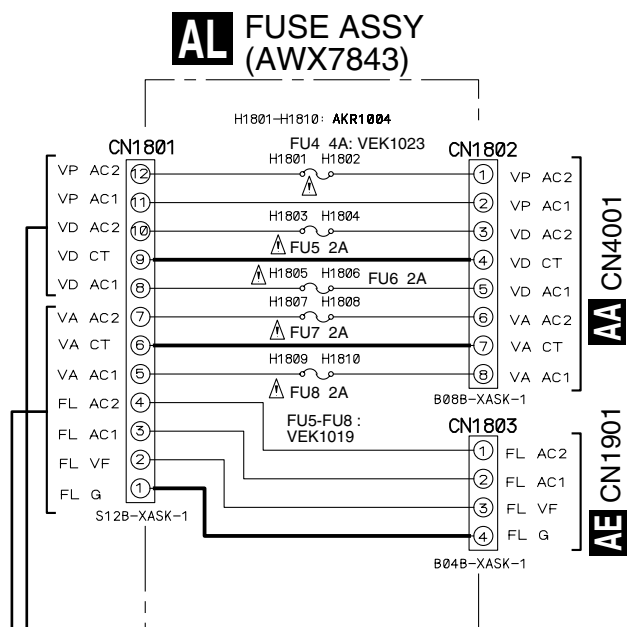
AB AC AE



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.

3.30 POSISTER (L) (R), DSP DIODE, SP (B), DIODE, FUSE AND TARANS (A) (B)





AO 1/2



4

AO 2/2



NOTES

Indicated in "STBY" parts are STANDBY.

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.

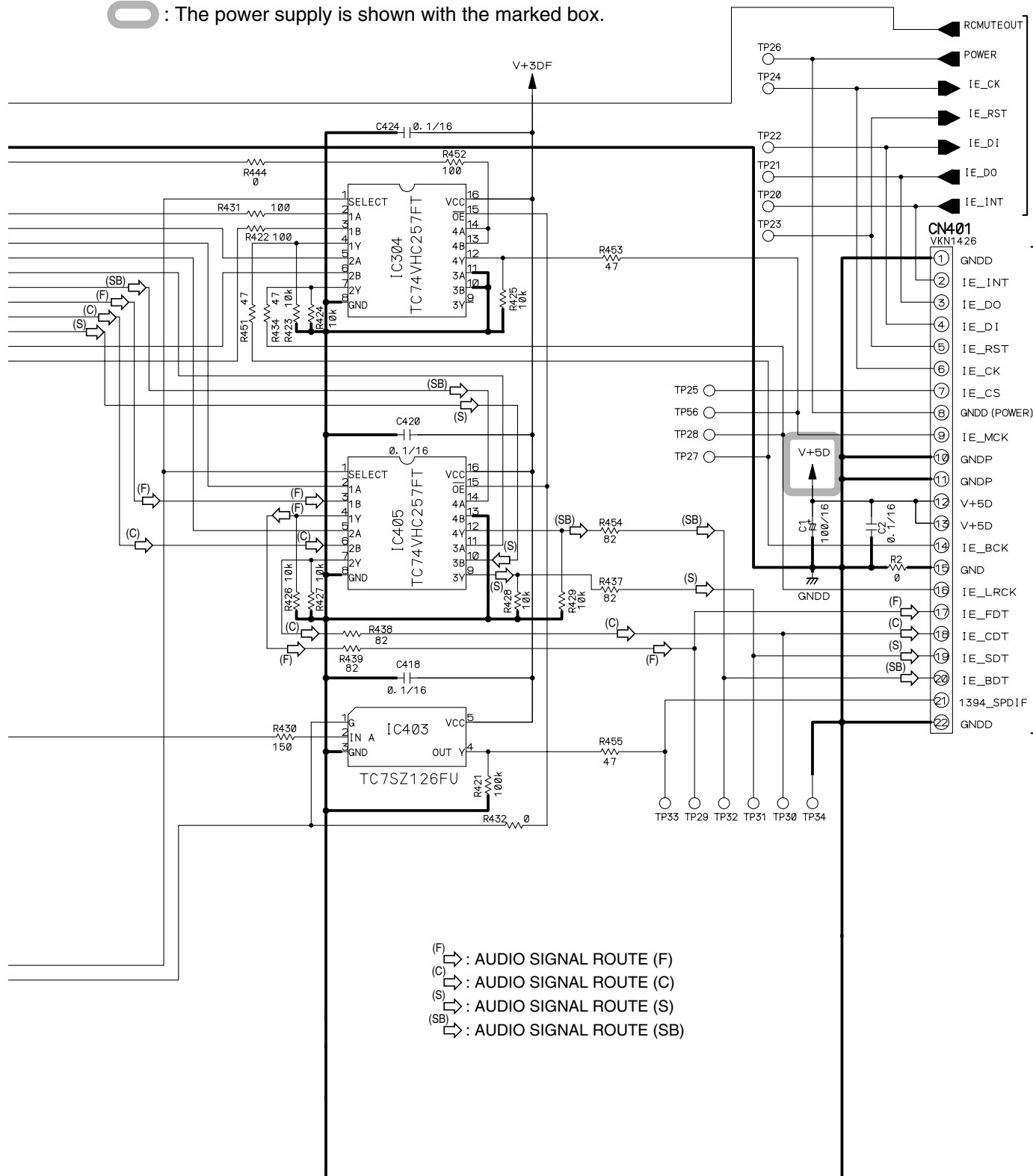
100/16:CEV101M16 100/6.3:CEV101M6R3

⊢ : CKSRVB unless otherwise noted

RESISTORS

Unit : k-k Ω , M-M Ω or Ω unless otherwise noted.
 Rated power : 1/16W unless otherwise noted.
 Tolerance : (J) $\pm$ 5% unless otherwise noted.

 : The power supply is shown with the marked box.



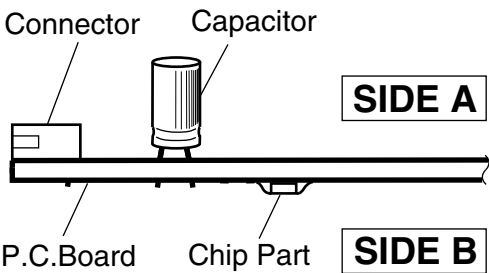
4. PCB CONNECTION DIAGRAM

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.



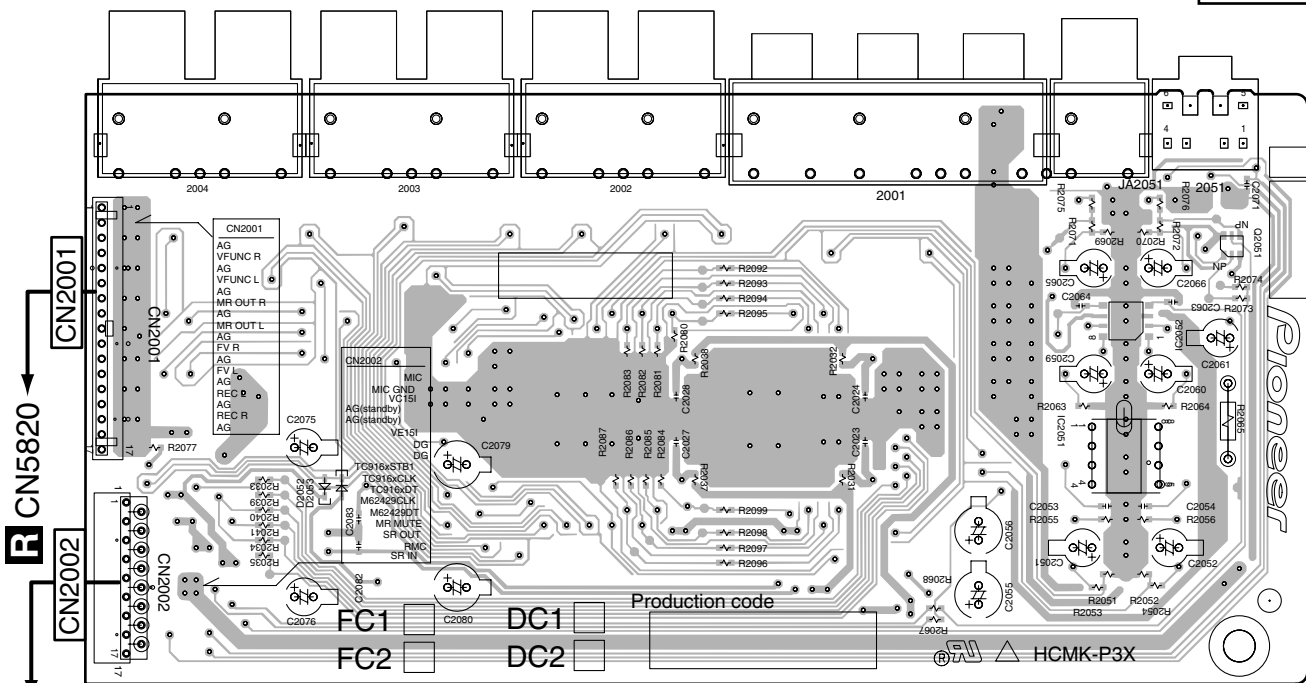
4.2 A/V I/O ASSY

SIDE A

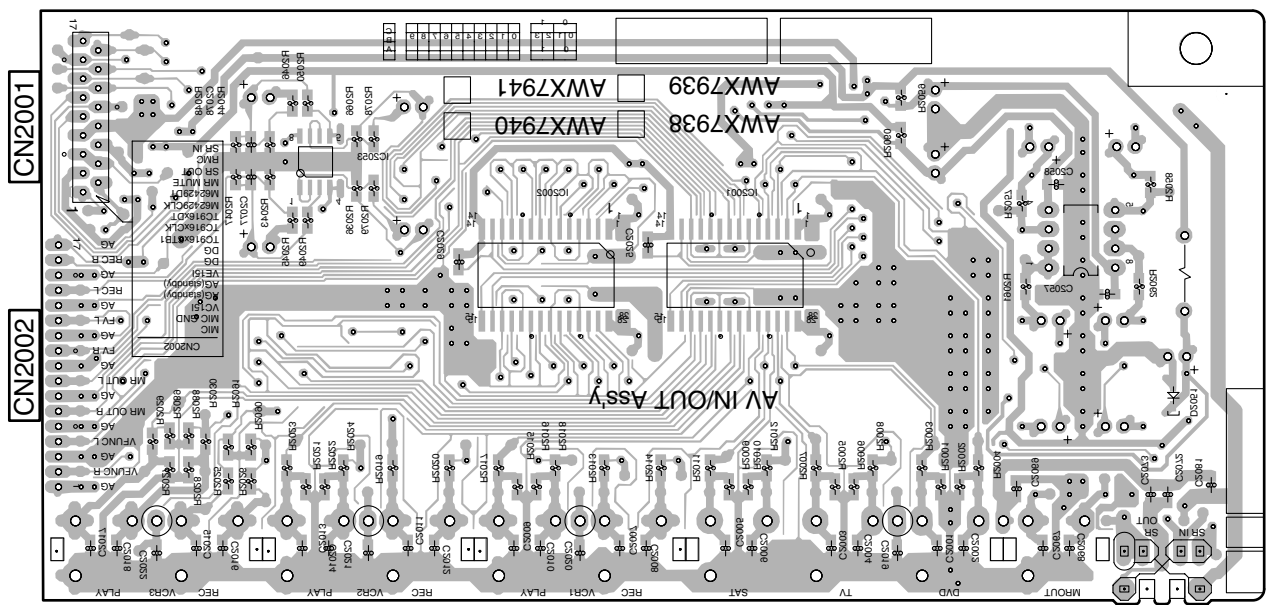
SIDE B

A/V IN/OUT ASSY

SIDE A



SIDE B



(ANP7389-D)

B

B

VSX-49TXi

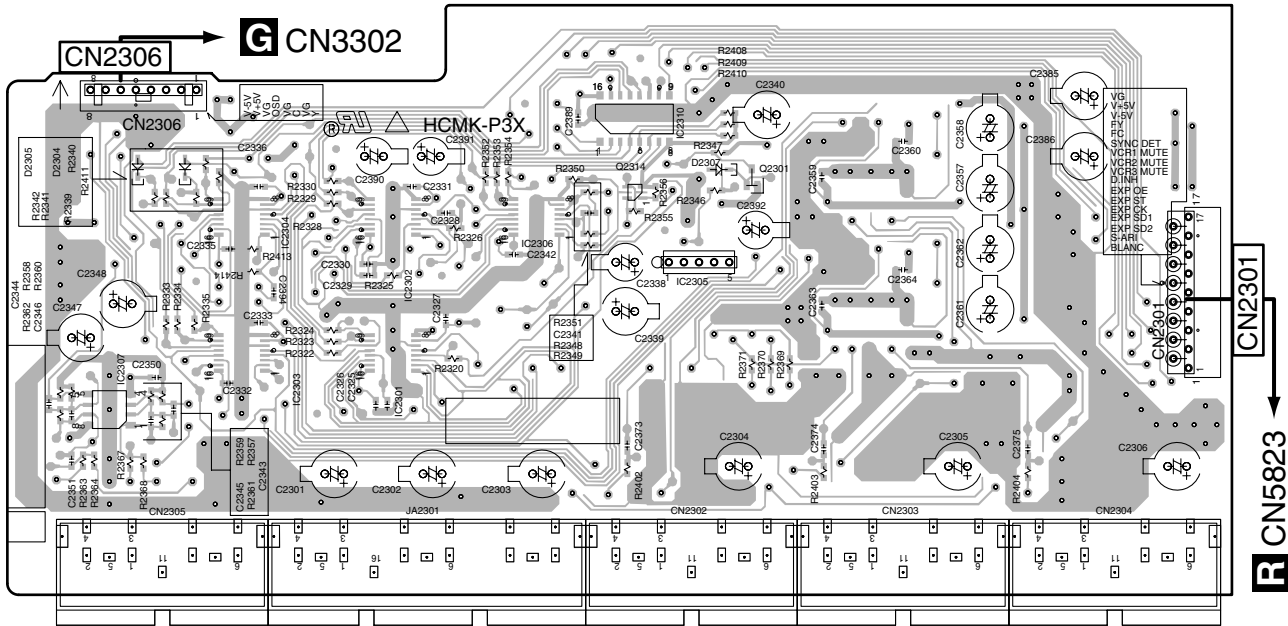
4.4 S-VIDEO ASSY

SIDE A

SIDE B

S-VIDEO ASSY

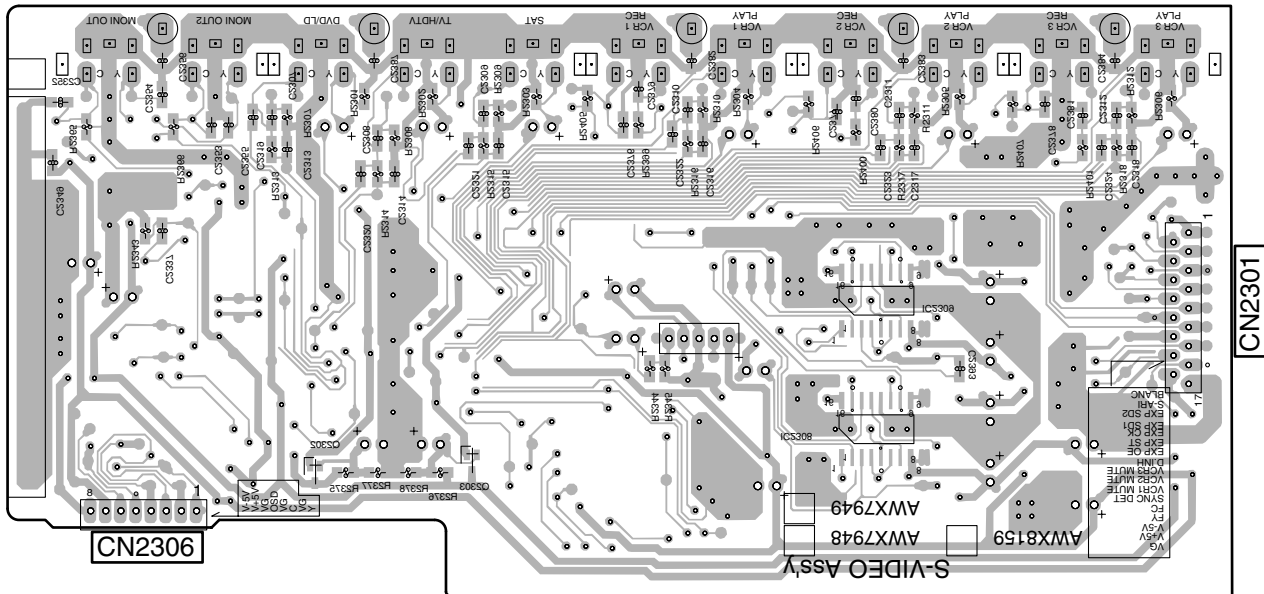
SIDE A



IC2307 IC2304 IC2302 IC2306 IC2310 IC2305 Q2301
IC2303 IC2301 Q2314

(ANP7389-D)

SIDE B



Q2302 Q2303 IC2309 IC2308

(ANP7389-D)

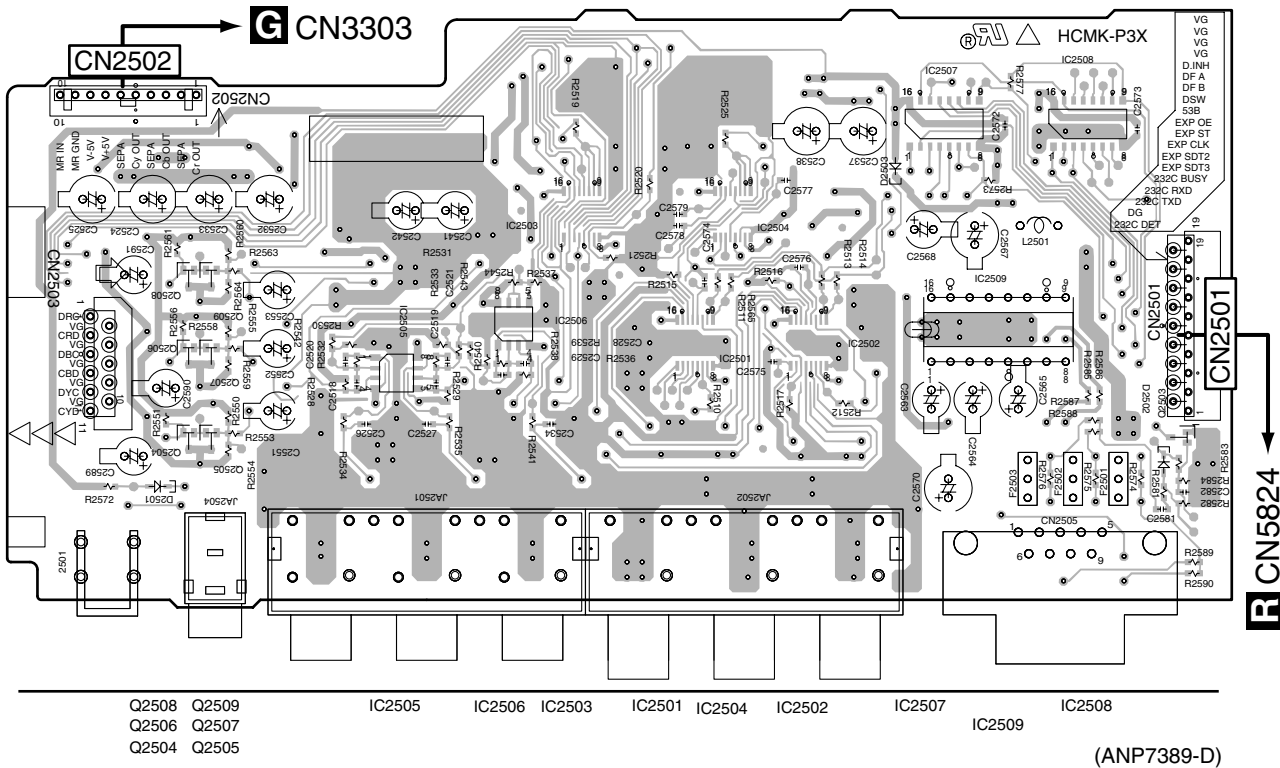
4.6 COMPONENT ASSY

SIDE A

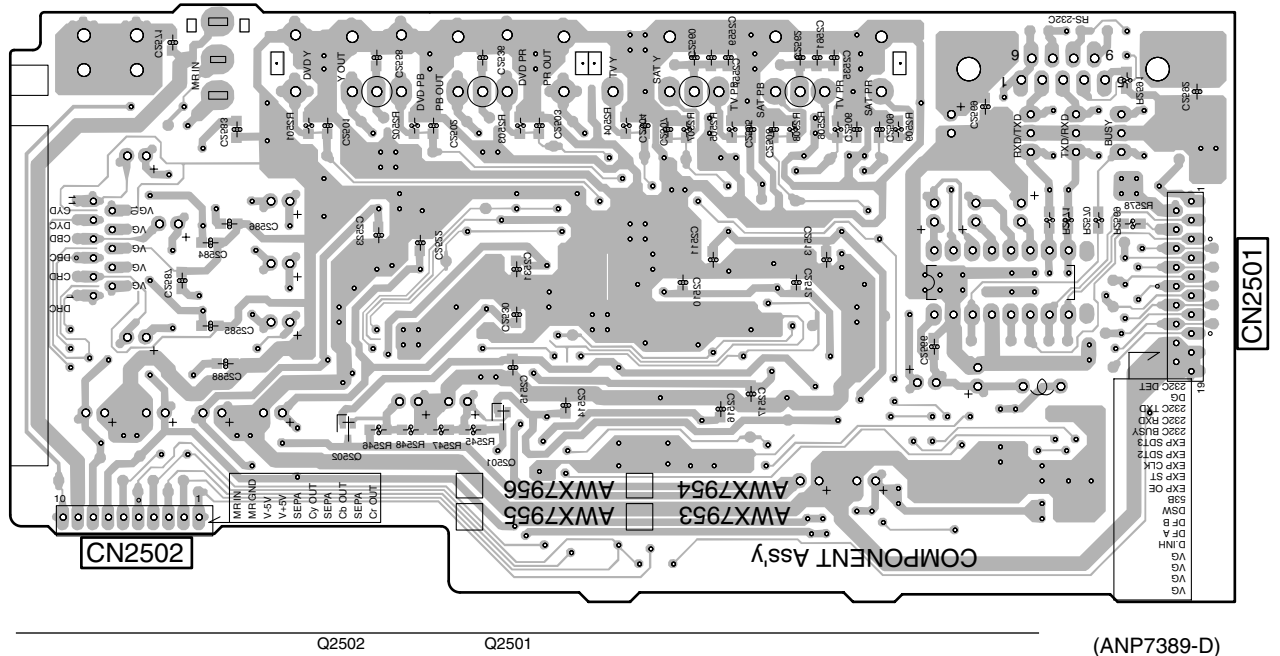
SIDE B

COMPONENT ASSY

SIDE A



SIDE B



F

F

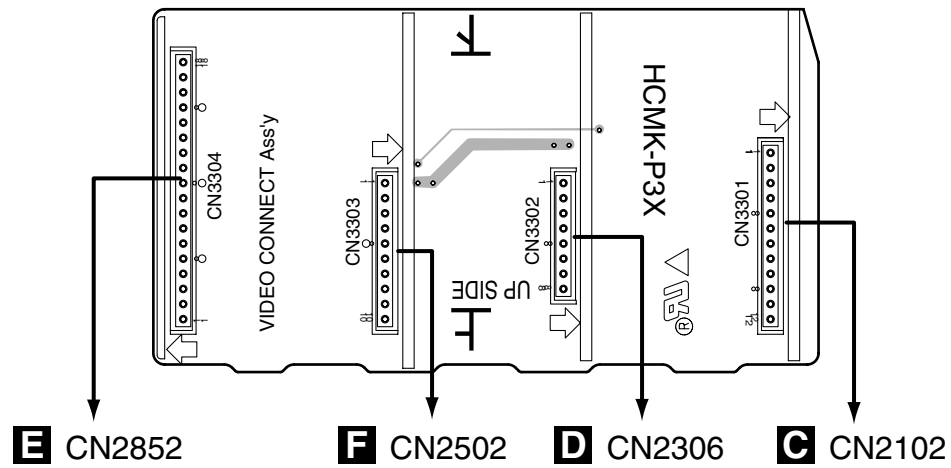
4.7 VIDEO CONNECT ASSY

SIDE A

SIDE B

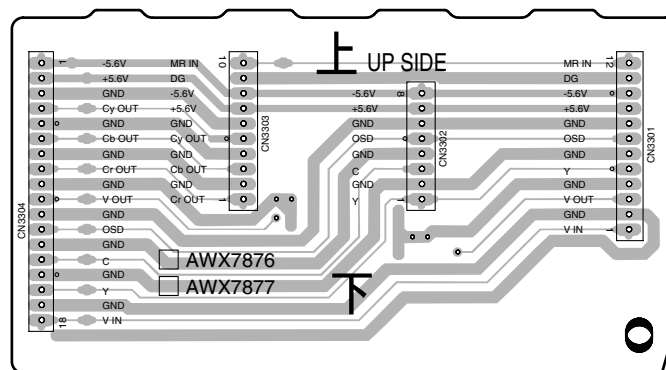
G VIDEO CONNECT ASSY

SIDE A



(ANP7390-D)

SIDE B



(ANP7390-D)

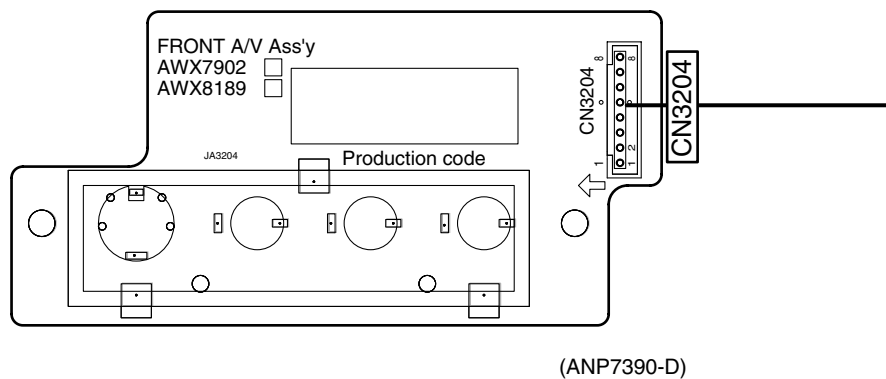
G

G

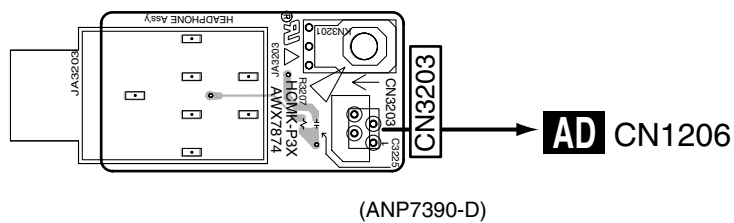
4.8 MIC AMP, MIC, FRONT A/V and HEADPHONE ASSYS

SIDE A

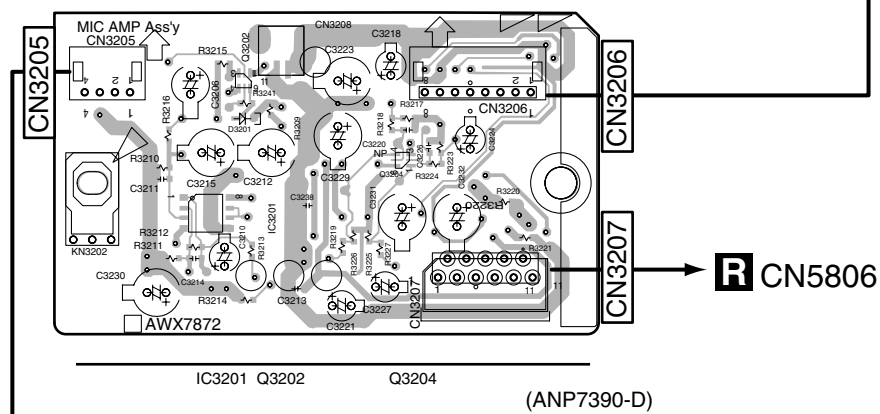
J FRONT A/V ASSY



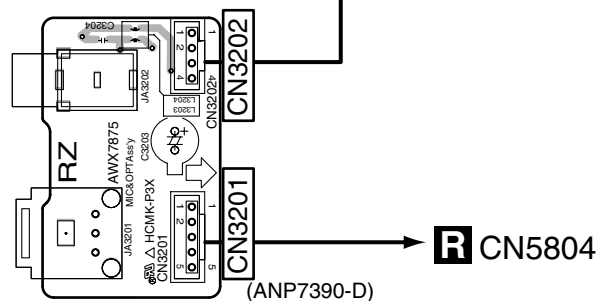
K HEADPHONE ASSY



H MIC AMP ASSY



I MIC & OPT ASSY



4.9 ANALOG IN & A/D ASSY

SIDE A

ANALOG IN & A/D ASSY

IC3462
IC3422

IC3423

IC3424
IC3401

IC3902

Q3401 Q3601
Q3801 Q3501

IC3801 IC3601
IC3701 IC3501

IC3802 IC3602
IC3702 IC3502

IC3402

IC3481 IC3441
IC3461 IC3421

(ANP7390-D)

SIDE B

A

B

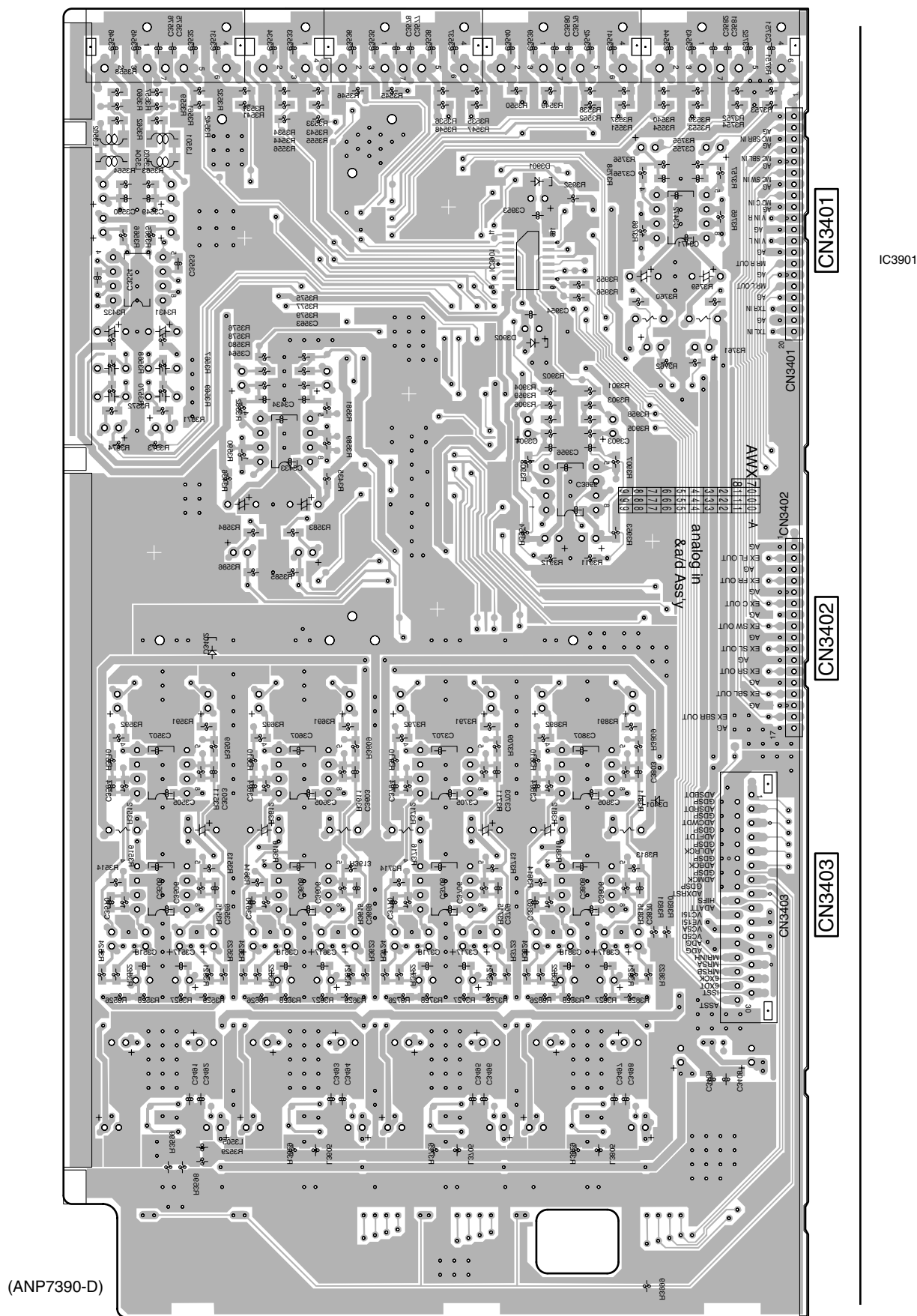
C

D

E

F

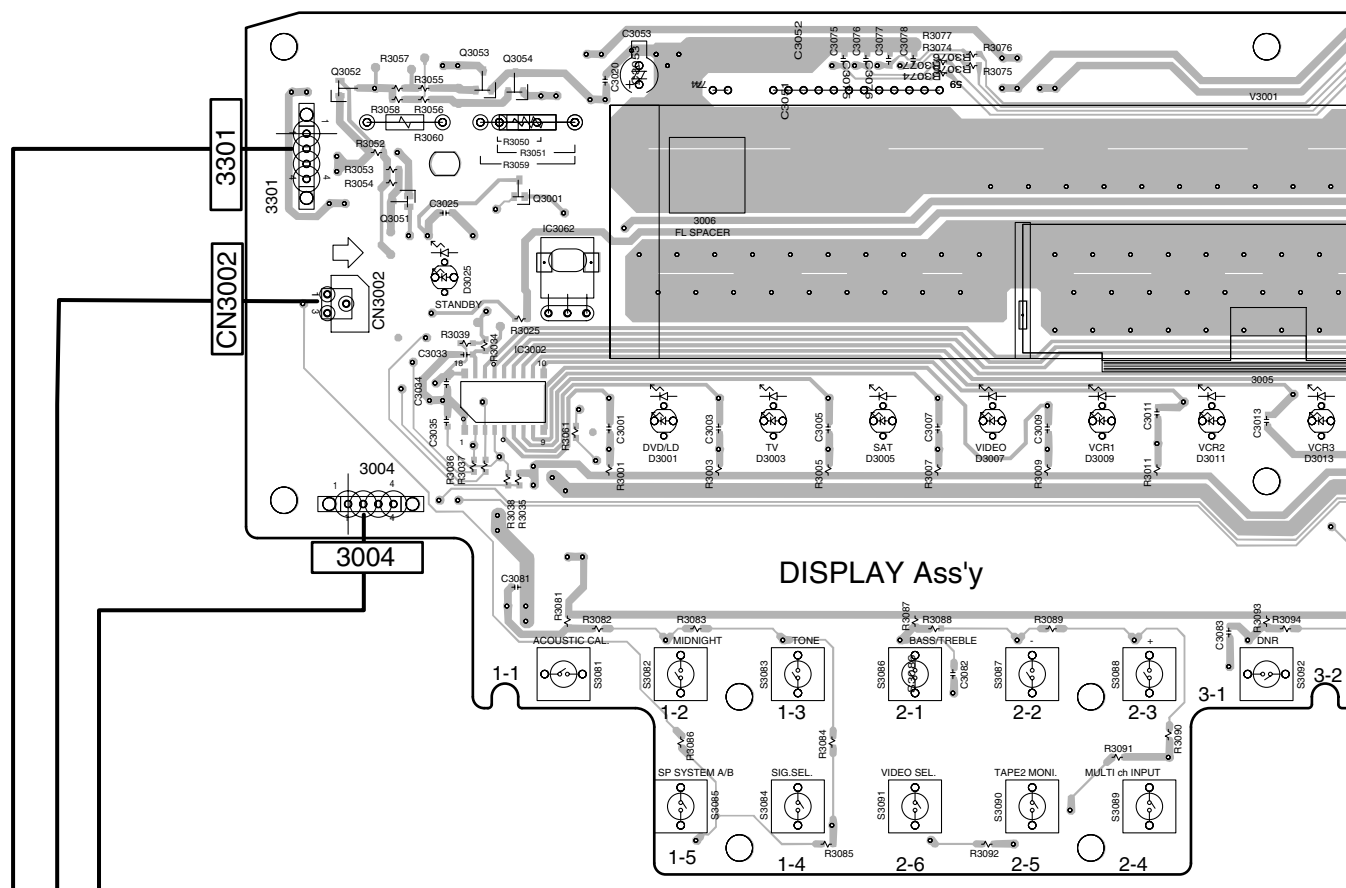
L ANALOG IN & A/D ASSY



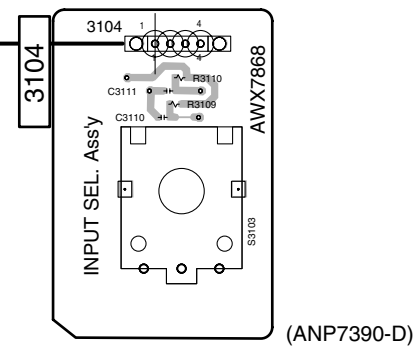
4.10 DISPLAY, INPUT SEL, MULTI JOG, FL SUP. and STANDBY ASSYS

SIDE A

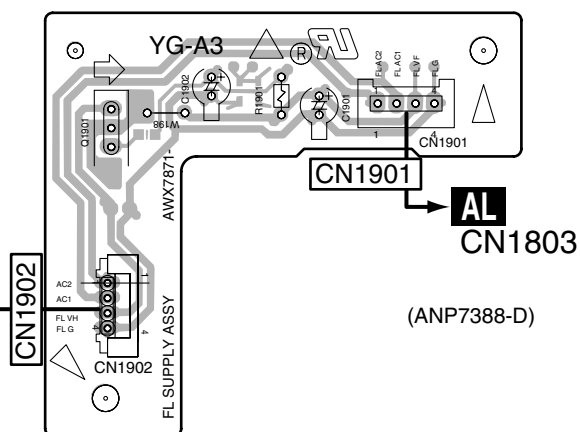
M DISPLAY ASSY



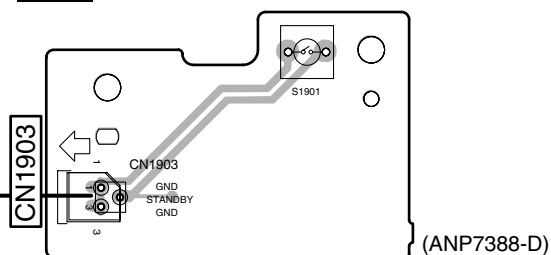
N INPUT
SEL ASSY



AE FL SUPPLY ASSY



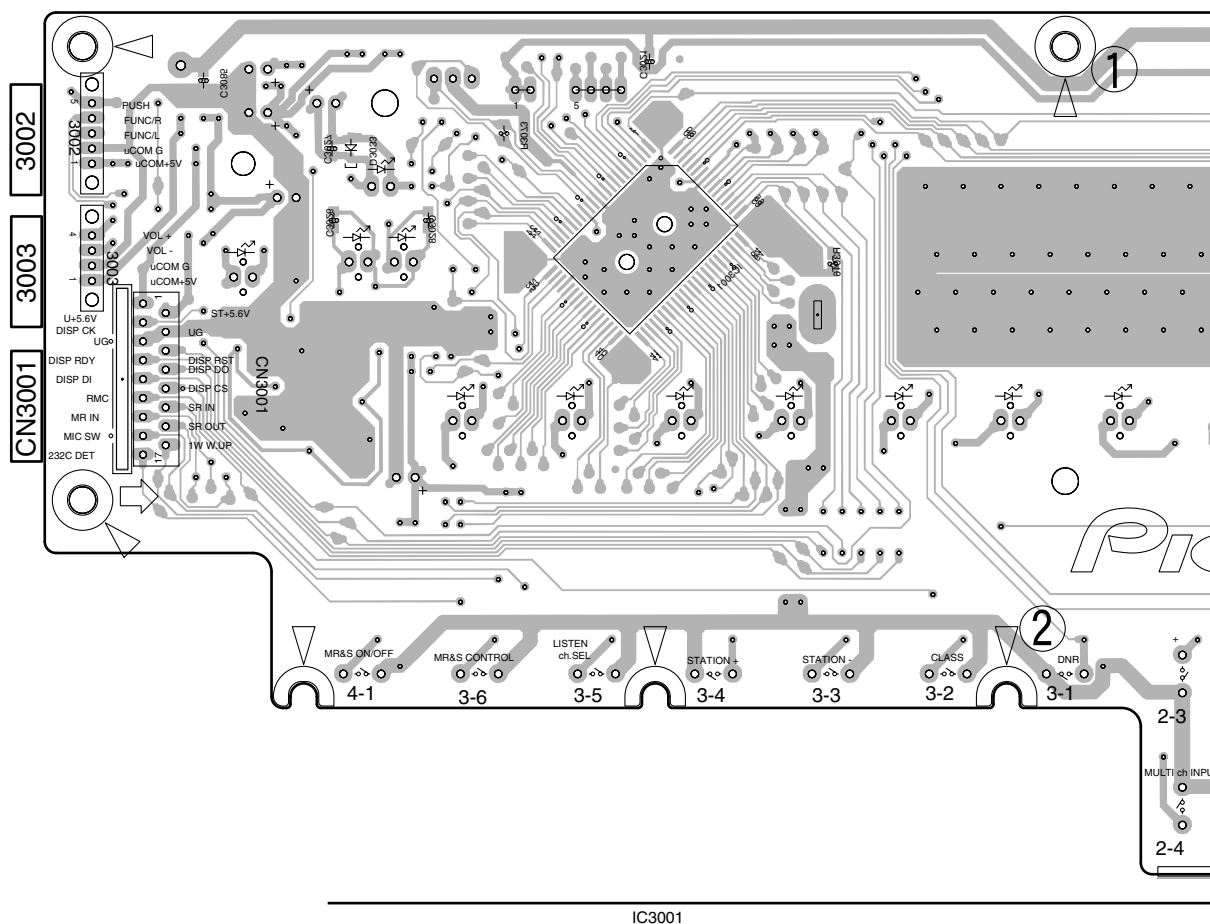
AF STANDBY ASSY



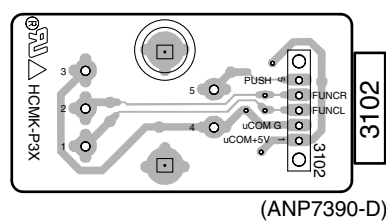
M N AE AF

SIDE B

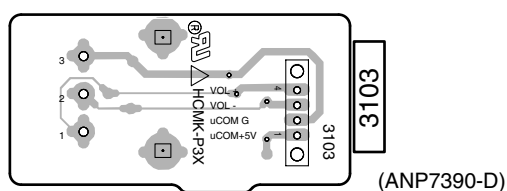
M DISPLAY ASSY

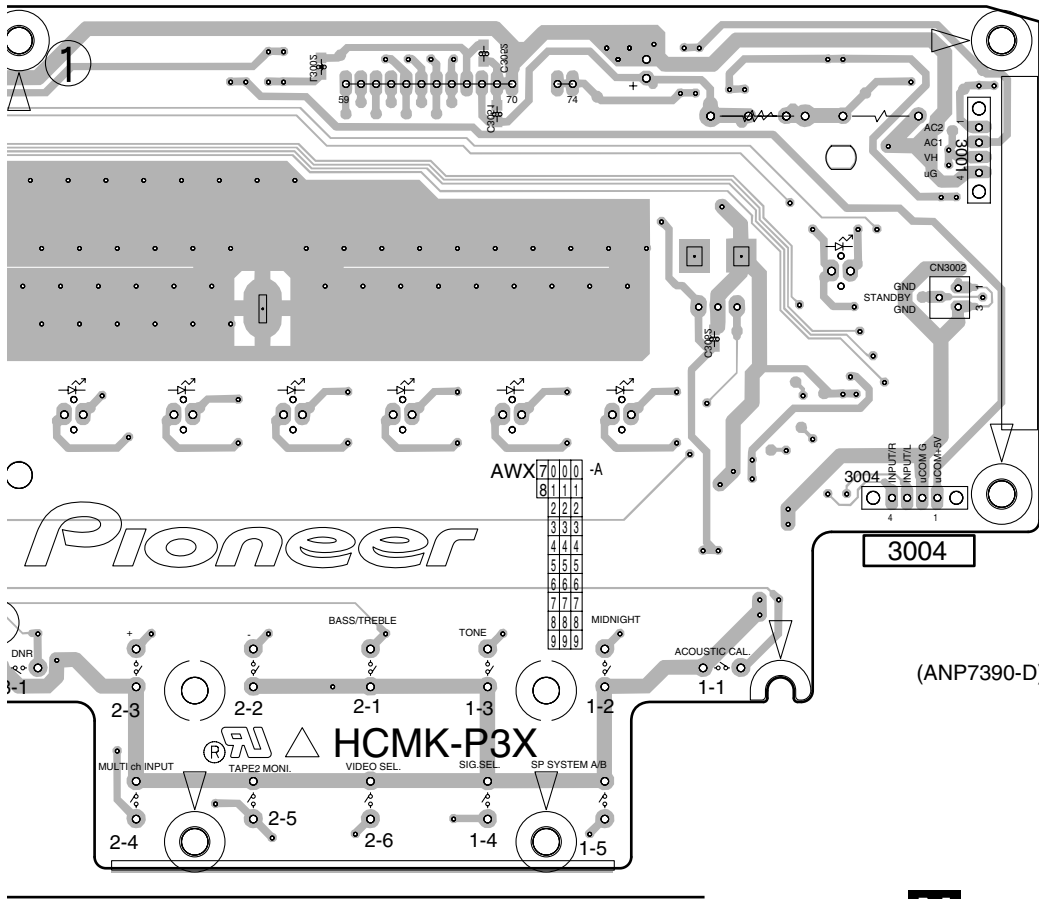


O MULTI JOG ASSY

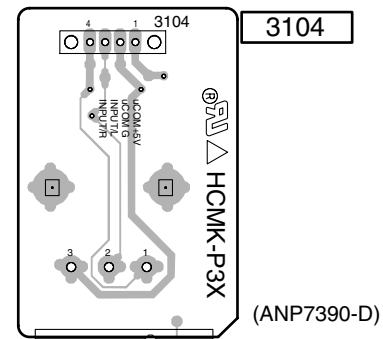


P VOL ASSY

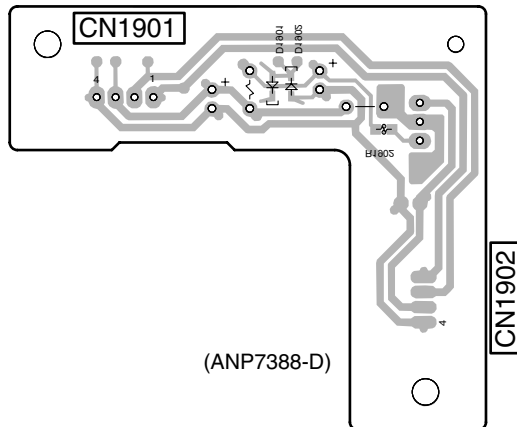




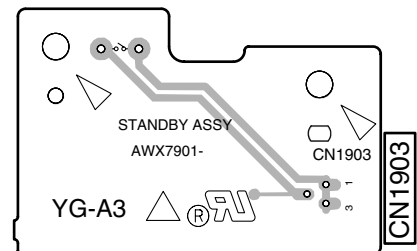
N INPUT SEL ASSY



AE FL SUPPLY ASSY

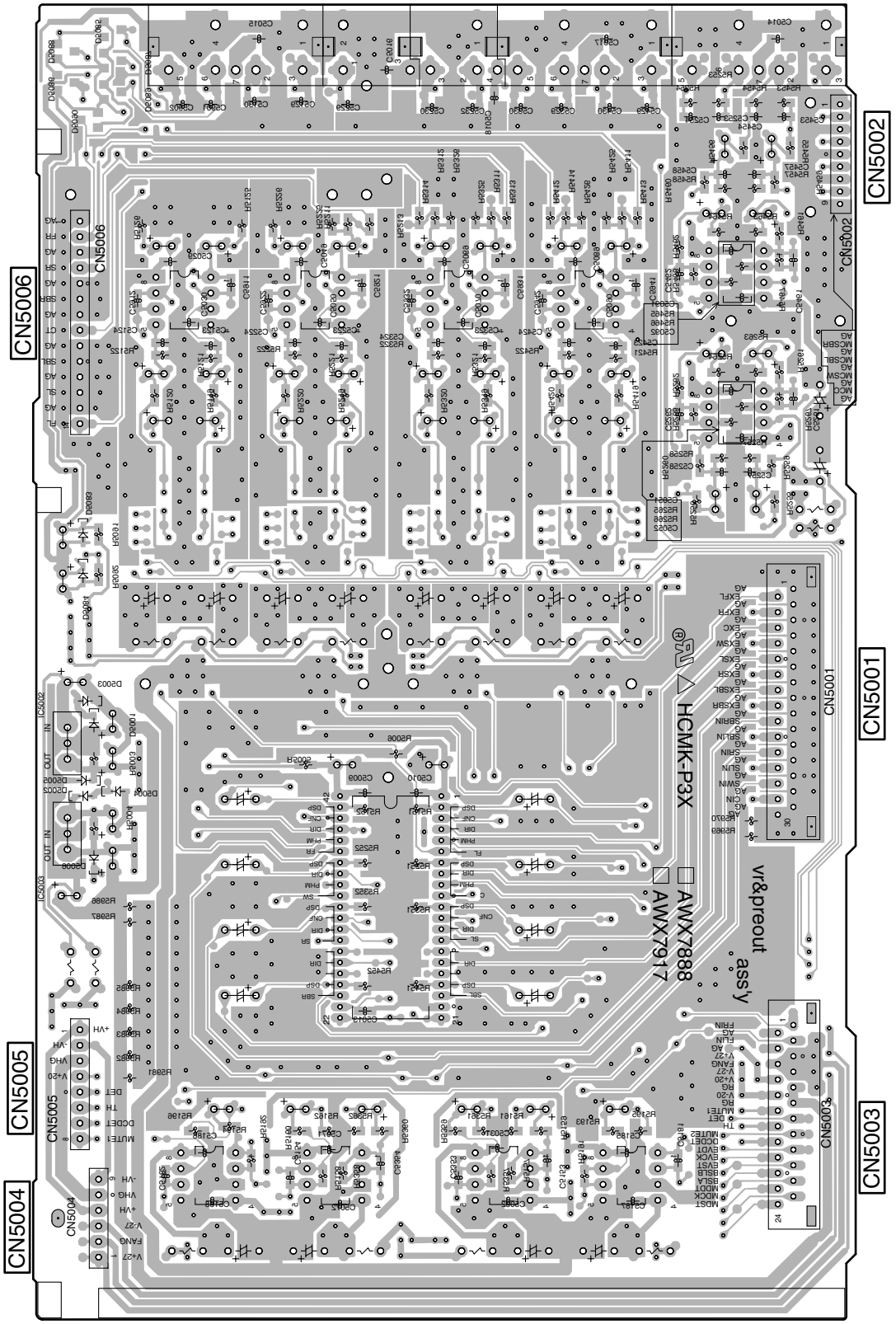


AF STANDBY ASSY



Q VR & PRE OUT ASSY

SIDE B



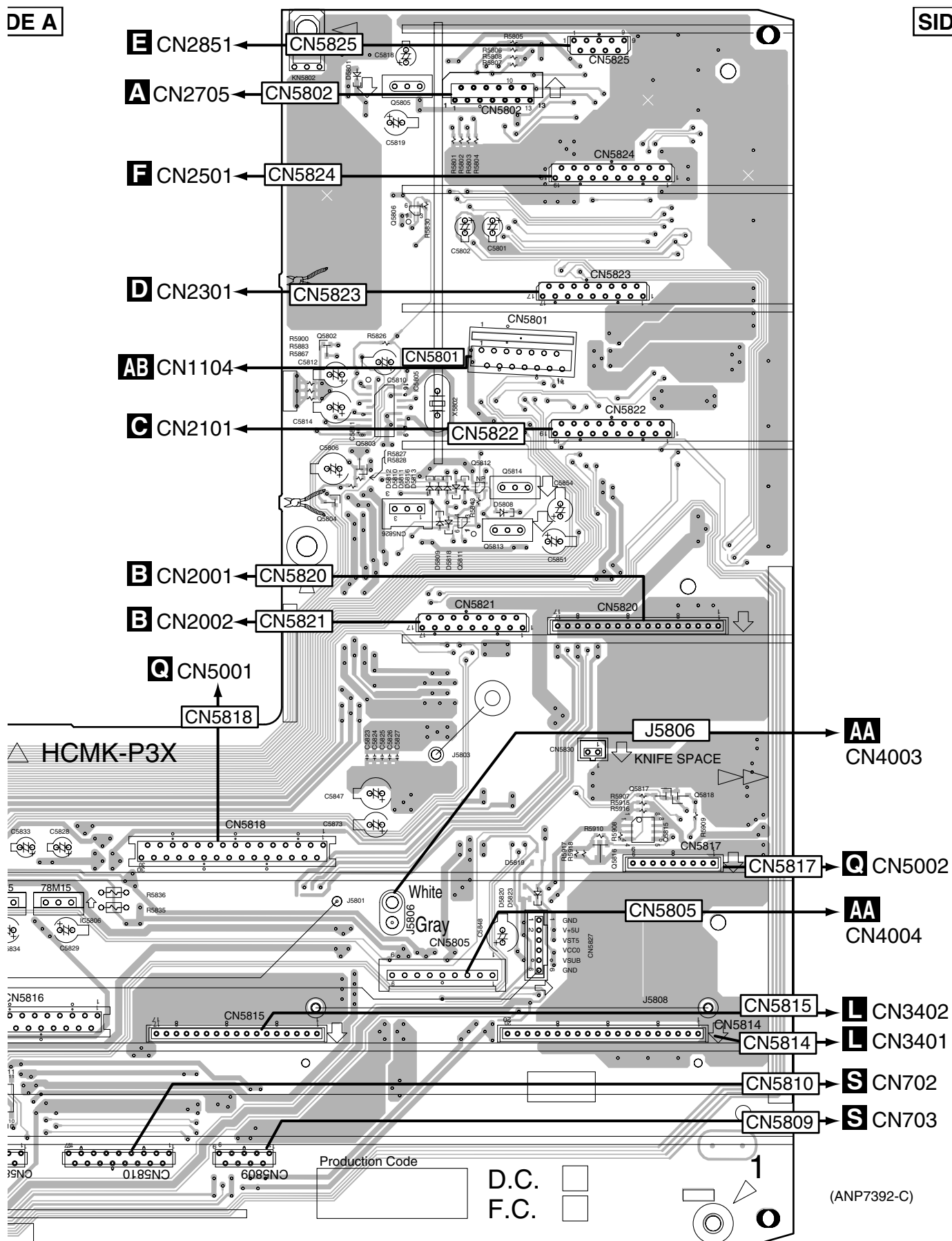
(ANP7392-C)

Q

VSX-49TXi

DE A

SIDE A

07
04

IC5806

Q5802 Q5803 Q5805 Q5812 Q5814 Q5816 Q5817 Q5818
Q5804 Q5806 Q5811 Q5813 Q5815
IC5805D.C. ☐
F.C. ☐

VSX-49TXi

R

SIDE B

A

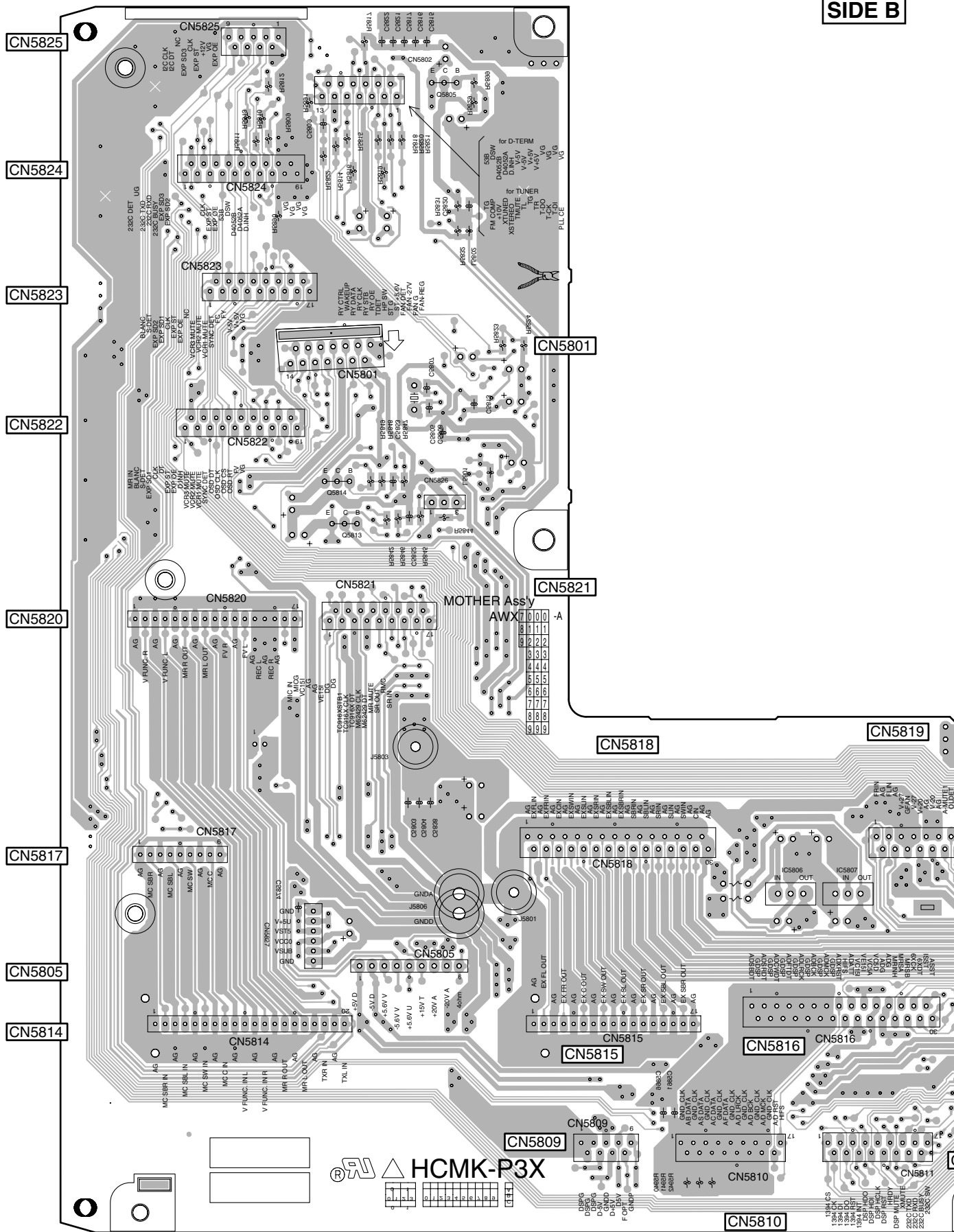
B

C

D

E

F



DE B

SIDE B

A

B

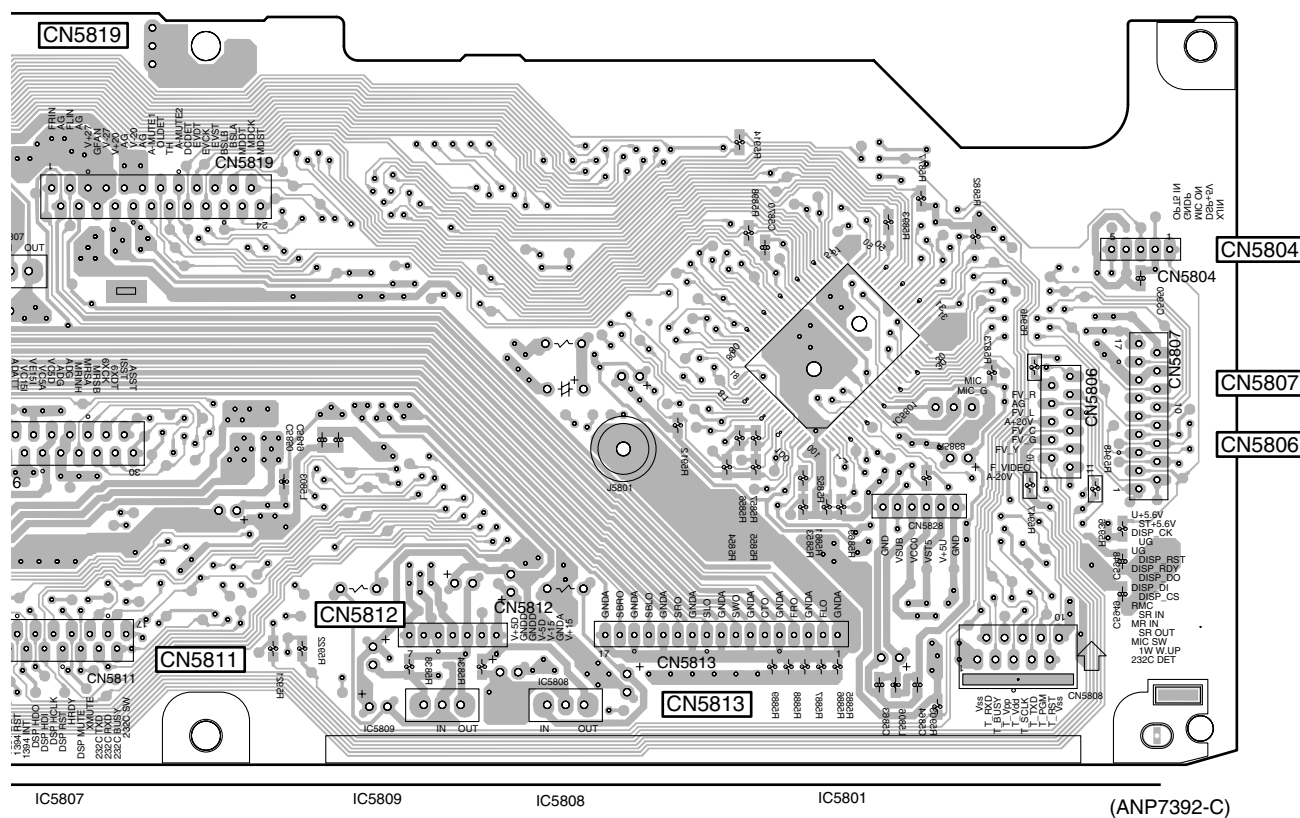
C

D

E

F

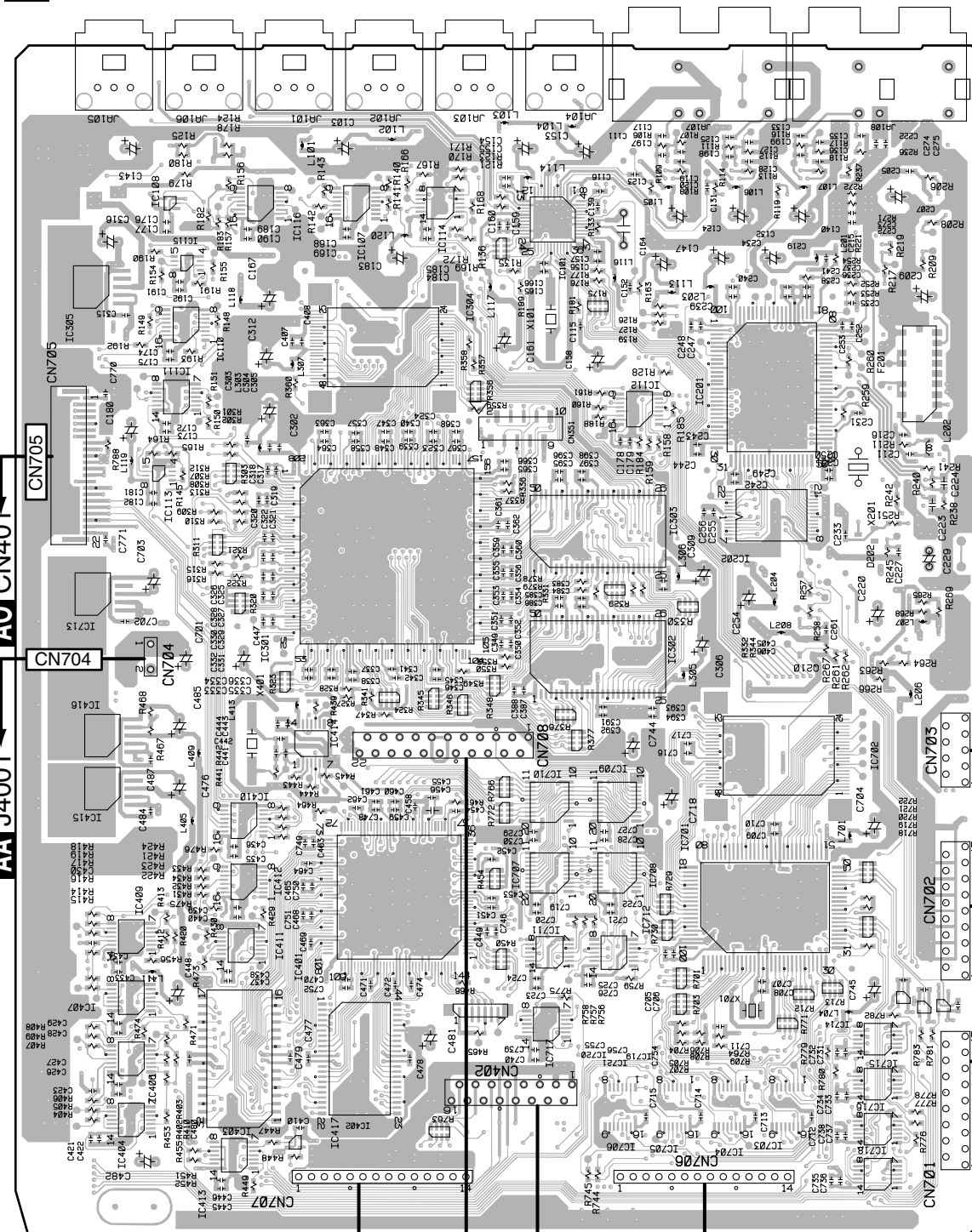
R MOTHER ASSY



4.13 DSP ASSY

SIDE A

S DSP ASSY



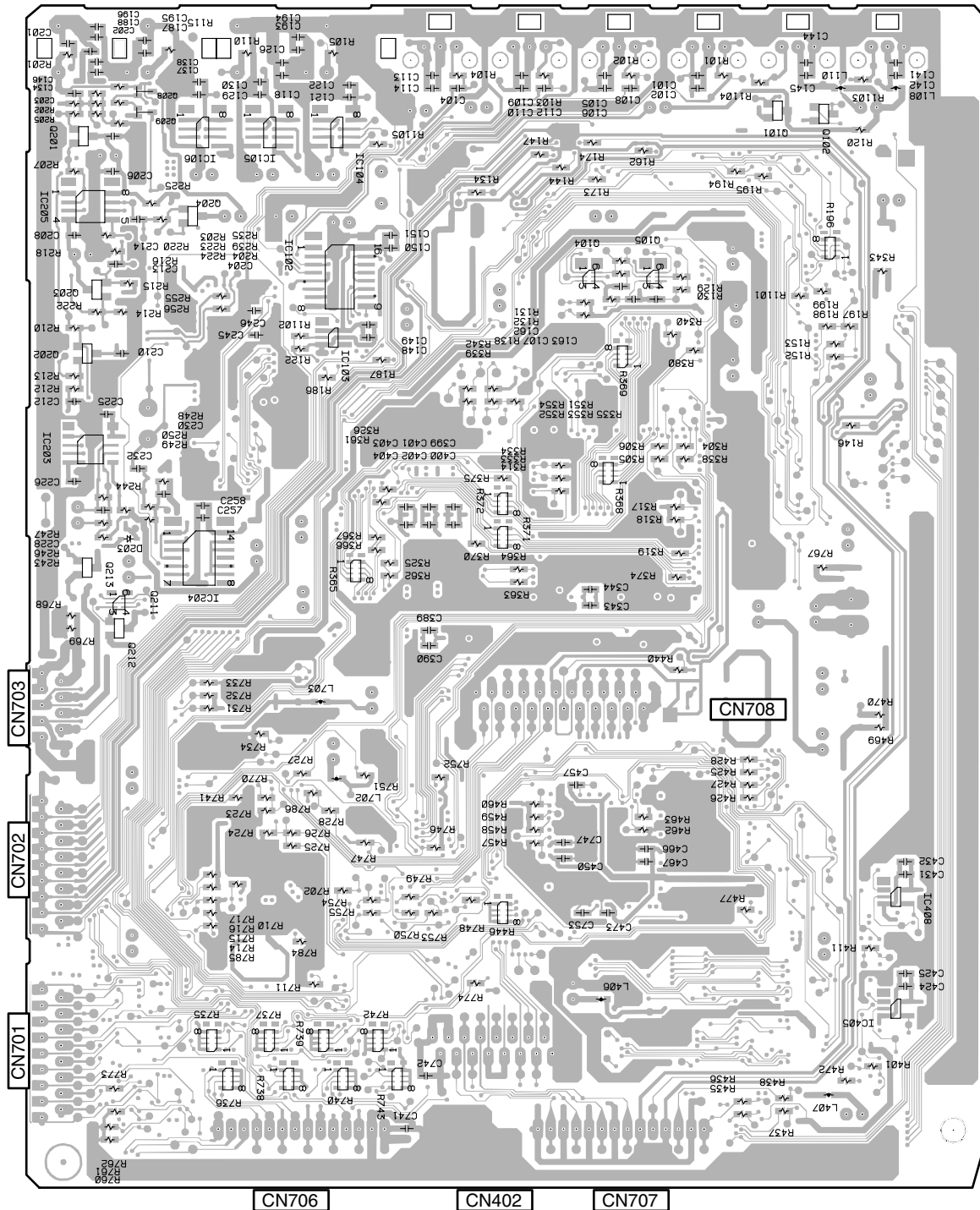
- IC5084
- IC108
- IC116
- IC107
- IC114
- IC115
- IC305
- IC110
- IC304
- IC111
- IC112
- IC201
- IC113
- IC301
- IC303
- IC202
- IC715
- IC302
- Q210
- IC416
- IC414
- IC702
- R** CN5809
- IC415
- IC710
- IC709
- IC410
- IC412
- IC707
- IC401
- IC708
- R** CN5810
- IC409
- IC711
- IC411
- IC712
- IC407
- IC406
- IC402
- IC403
- IC717
- IC714
- R** CN5811
- IC404
- IC706
- IC715
- IC413
- IC704
- IC716
- IC705
- IC718
- IC703

(ANP7393-A)

- CN707
- CN708
- CN402
- CN706
- U** CN6002
- T** CN502
- T** CN501
- U** CN6001

VSX-49TXi

S DSP ASSY



Q208 Q101
Q209 Q102
Q201 IC106 IC104
IC105

IC205 Q204

Q104 Q105
Q203 IC102
Q202 IC103

IC203

Q213 IC204
Q211
Q212

IC408

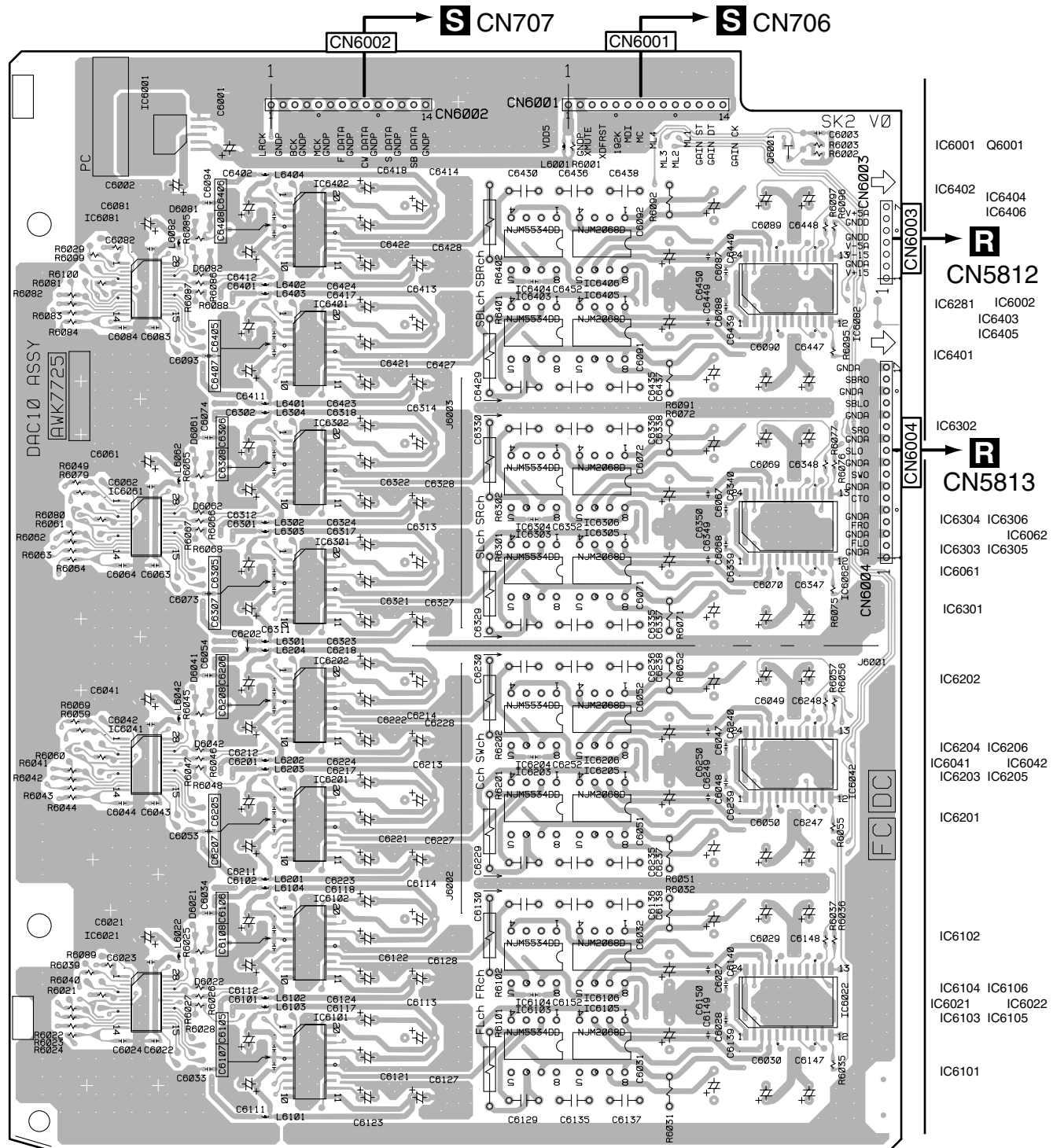
IC405

(ANP7393-A)

4.14 DAC10 ASSY

SIDE A

U DAC10 ASSY

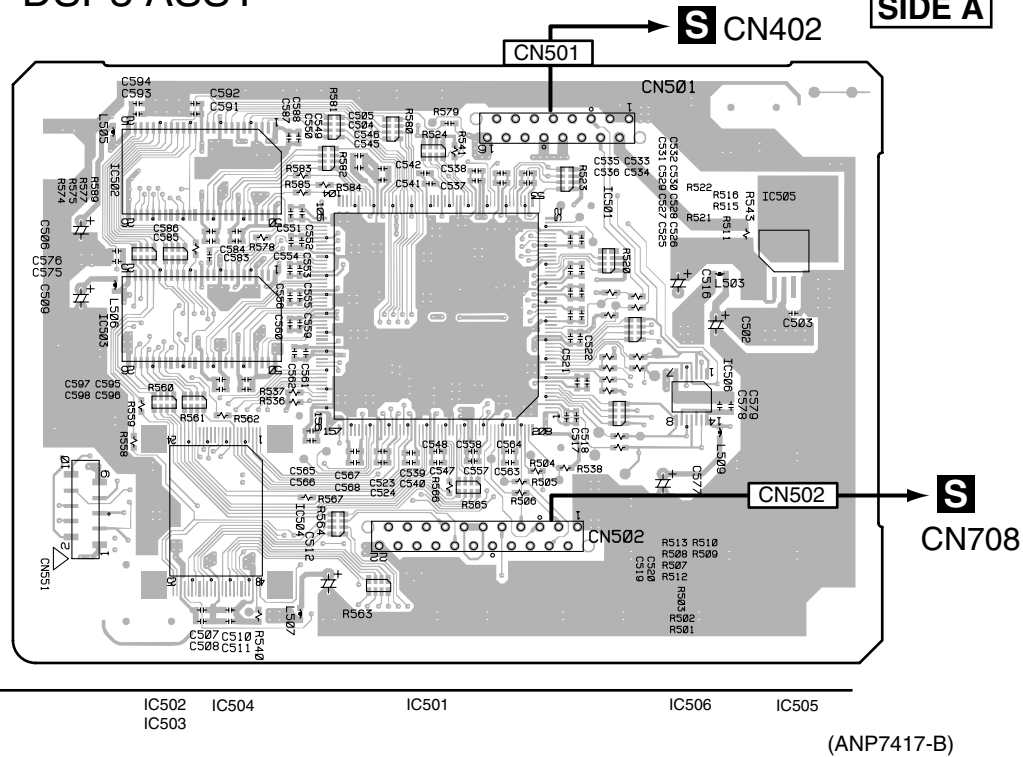


4.15 DSP3 ASSY

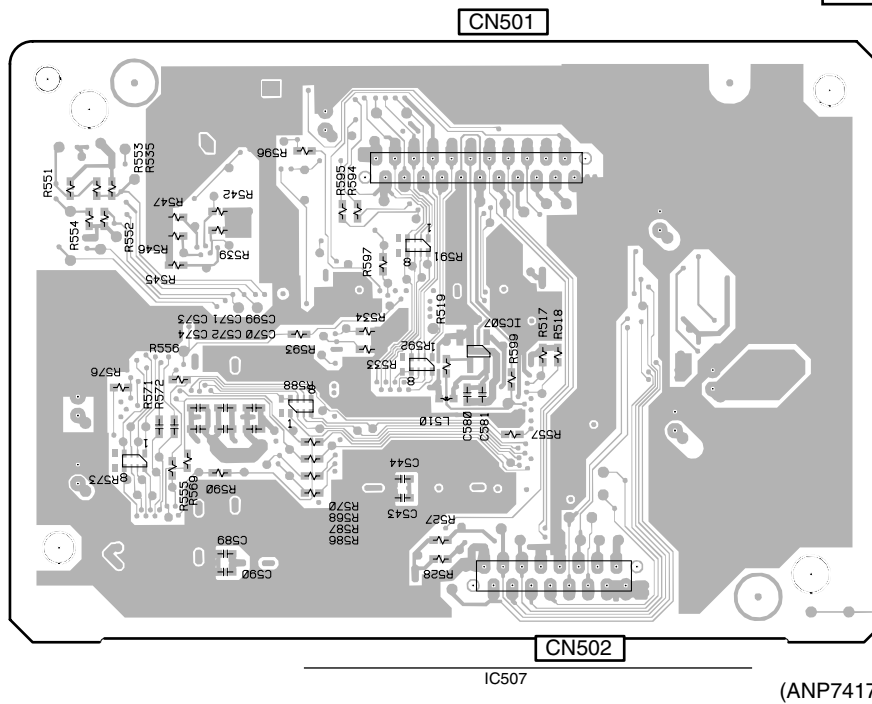
SIDE A

SIDE B

T DSP3 ASSY



SIDE B



T

T

A

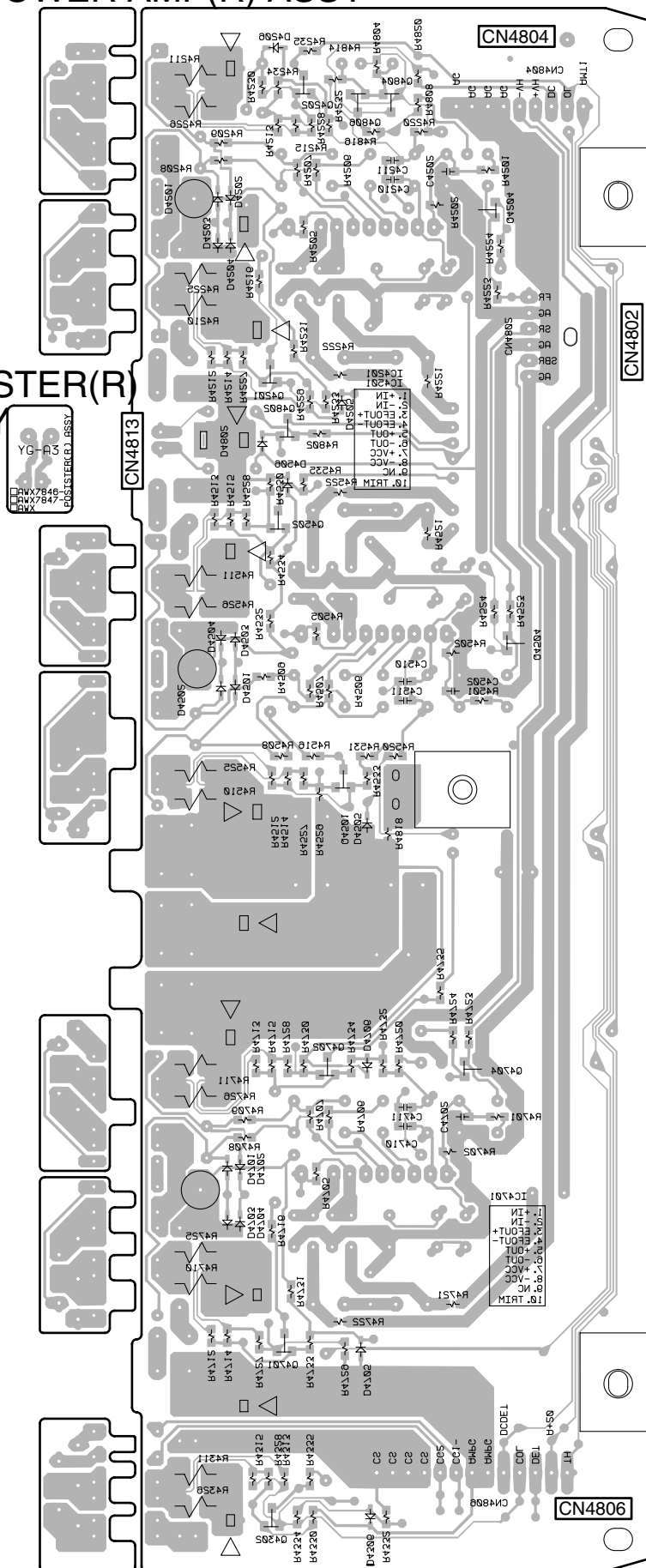


SIDE B

X POWER AMP(R) ASSY

SIDE B

AH

POSISTER(R)
ASSY

Q4806

Q4202

Q4804

Q4204

Q4201

IC4501

Q4802 IC4201

Q4502

Q4504

Q4501

Q4702

Q4704

IC4701

Q4701

Q4302

(ANP7391-B)

X

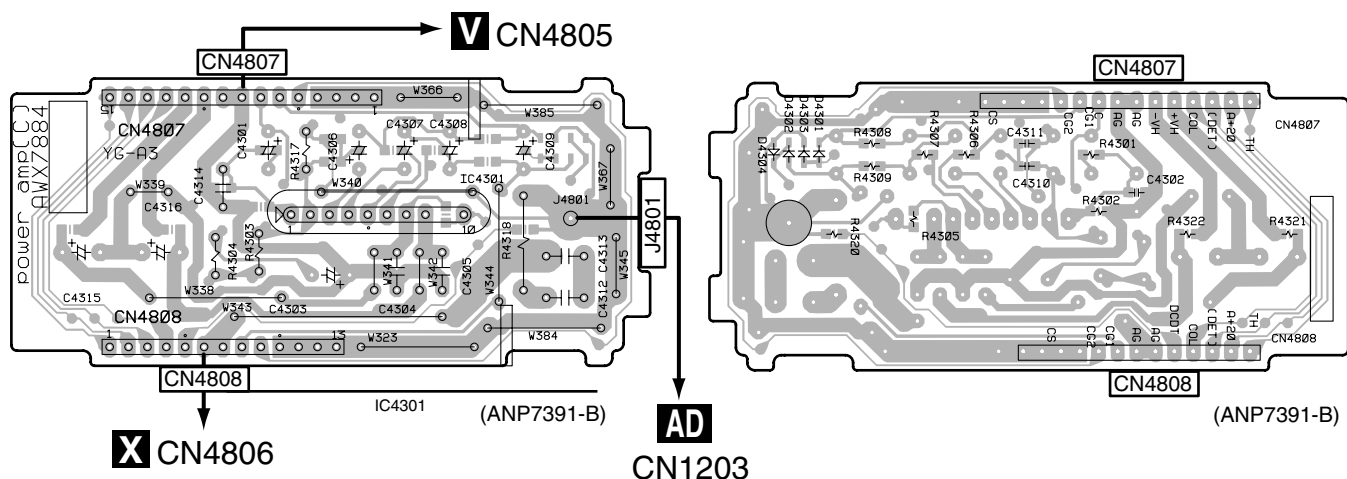
AH

4.18 POWER AMP(C), POWER AMP(BR) and POWER AMP(G) ASSYS

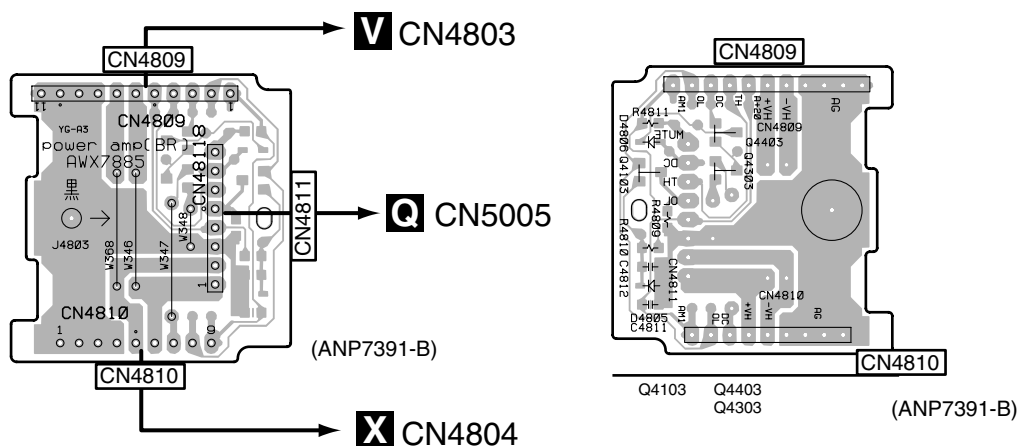
SIDE A

SIDE B

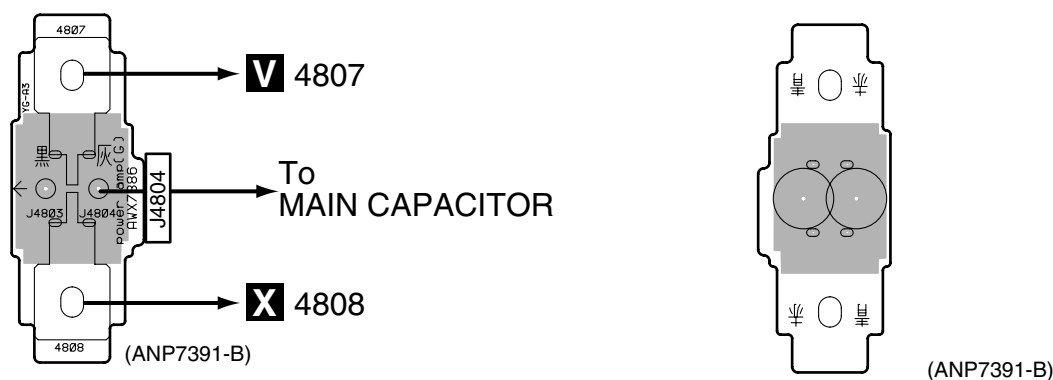
W POWER AMP (C) ASSY



Y POWER AMP (BR) ASSY



Z POWER AMP (G) ASSY

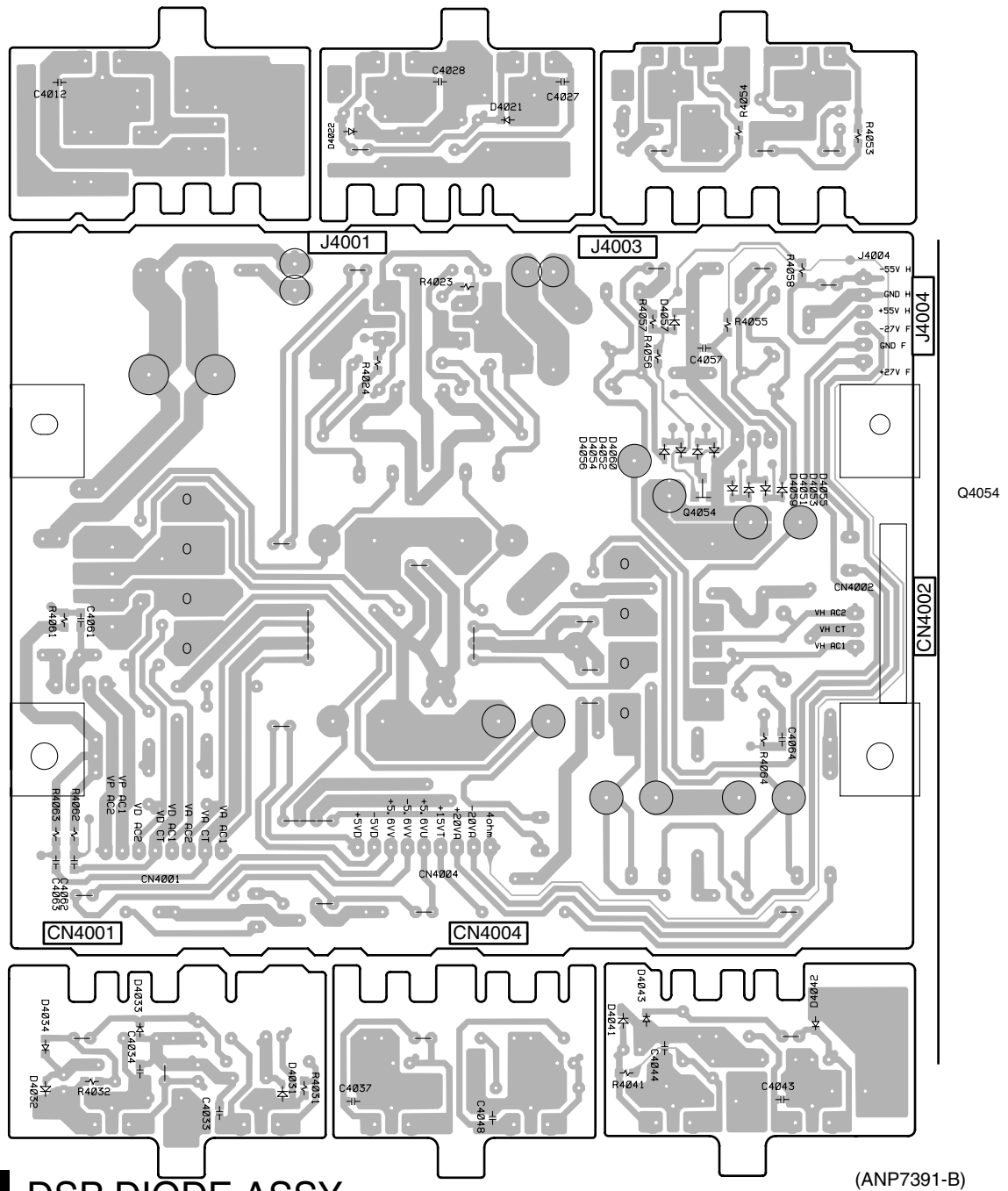


W Y Z

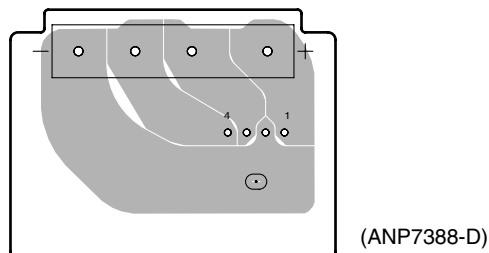
W Y Z

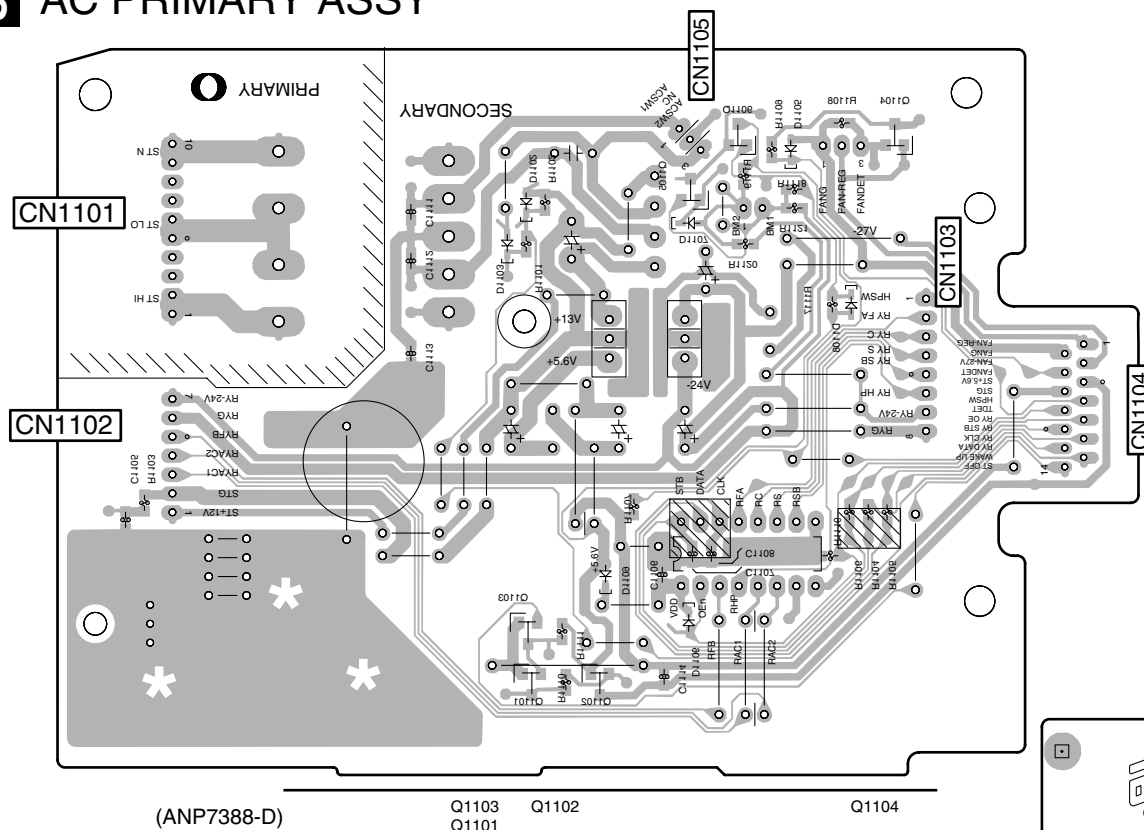
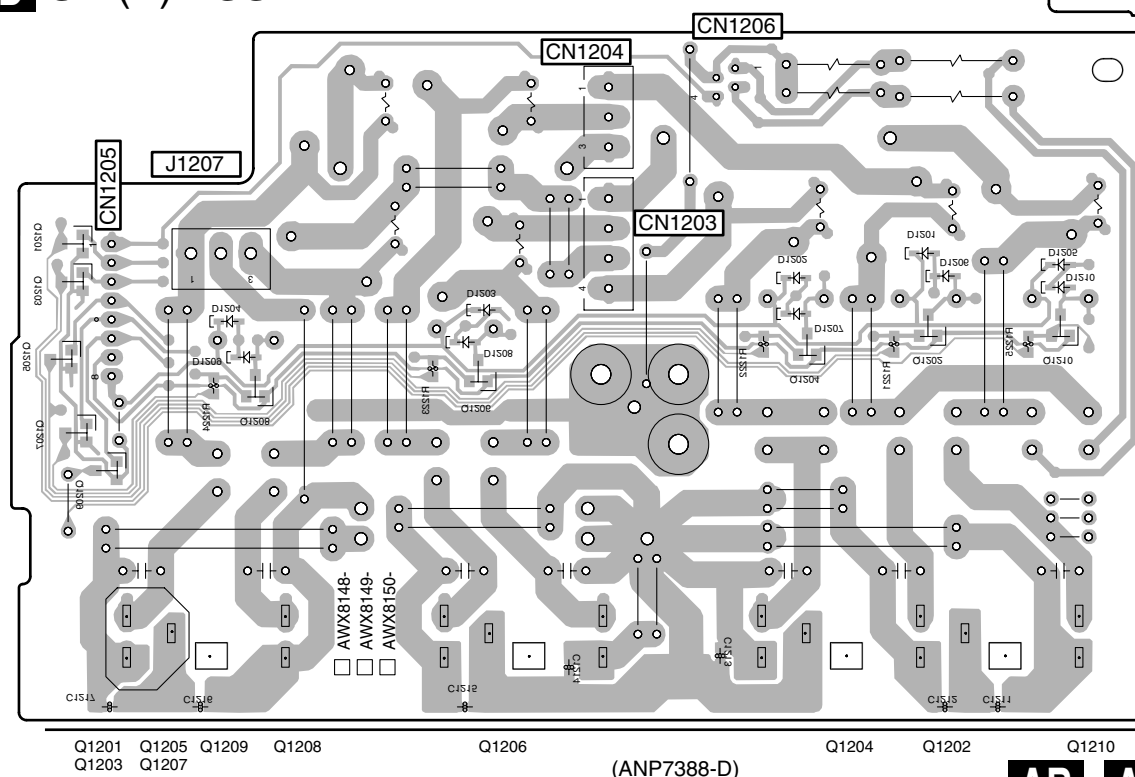
SIDE B

AA LOCAL SUPPLY ASSY



AI DSP DIODE ASSY



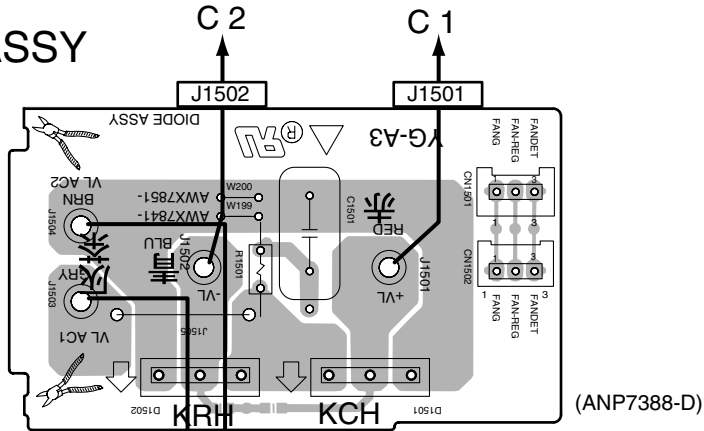
AB AC PRIMARY ASSY**SIDE B****AC** POWER SW ASSY**AD** SP (A) ASSY**AB AC AD**

4.21 TRANS(A),TRANS(B), DIODE and FUSE ASSYS

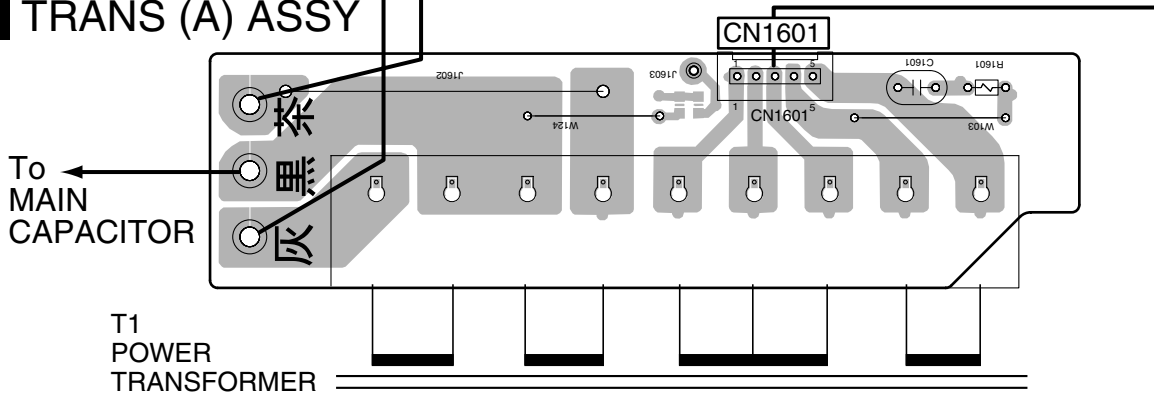
SIDE A

SIDE A

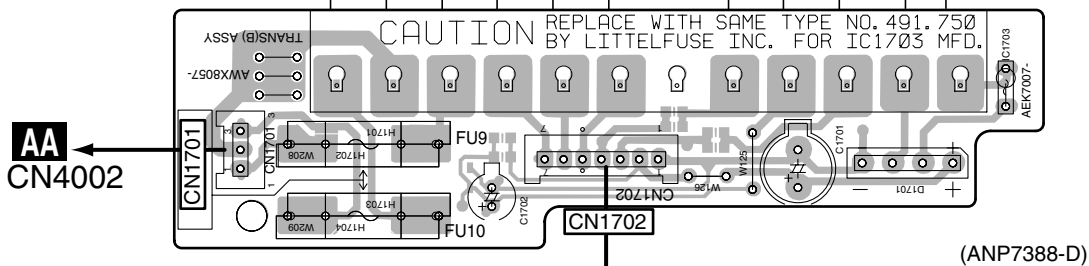
AK DIODE ASSY



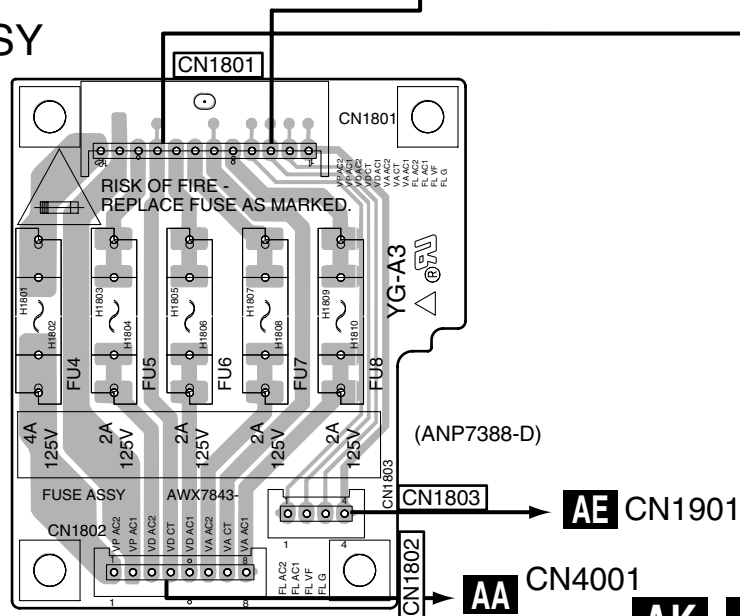
AM TRANS (A) ASSY



AN TRANS (B) ASSY



AL FUSE ASSY



AE CN1901

AA CN4001

AK AL AM AN

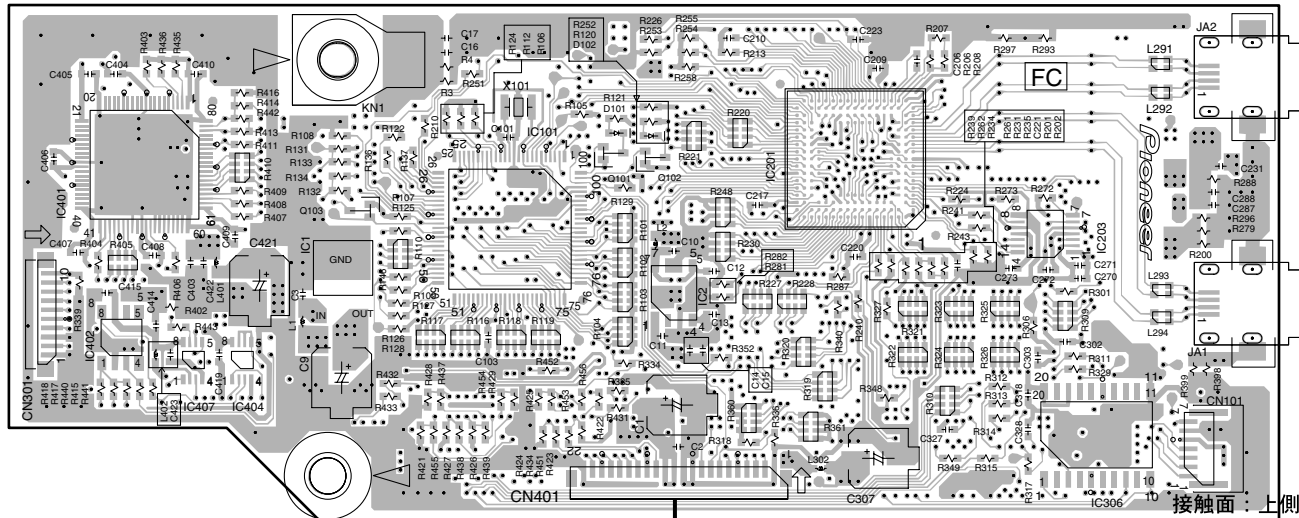
AK AL AM AN

4.23 1394 MODULE ASSY

SIDE A

SIDE A

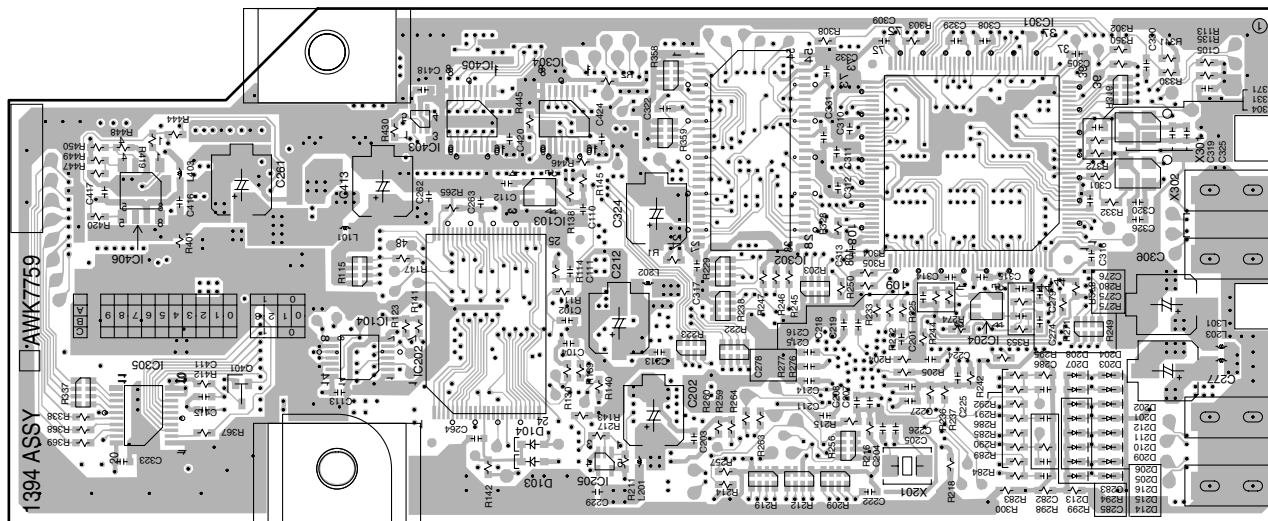
A0 1394 MODULE



IC401 IC402 IC407 IC404 Q103 IC1 IC101 Q101 Q102 IC2 IC201 IC203 IC306
CN401 (ANP7443-A)

S CN705

SIDE B



IC406 IC305 Q401 IC104 IC405 IC103 IC304 IC205 IC302 IC301 IC204
(ANP7443-A)

A0

A0

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 x 10¹ $\rightarrow$ 561 RD1/4PU561J

47k Ω $\rightarrow$ 47 x 10³ $\rightarrow$ 473 RD1/4PU473J

0.5 Ω $\rightarrow$ R50 RN2H50K

1 Ω $\rightarrow$ 1R0 RSIP1R0K

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

5.62k Ω $\rightarrow$ 562 x 10¹ $\rightarrow$ 5621 RN1/4PC5621F

Mark No. Description LIST OF ASSEMBLIES

	1..FM/AM TUNER Module	AXQ7237
NSP	1..VIDEO Assy	AWQ7016
	2..A/V I/O Assy	AWX7938
	2..COMPOSITE Assy	AWX7942
	2..COMPONENT Assy	AWX7953
	2..S-VIDEO Assy	AWX8159
	2..V-CONVERT Assy	AWX8160
NSP	1..A/D & CONTROL Assy	AWM7741
	2..INPUT SEL Assy	AWX7868
	2..MULTI JOG Assy	AWX7869
	2..VOL Assy	AWX7870
	2..MIC AMP Assy	AWX7872
	2..HEAD PHONE Assy	AWX7874
	2..MIC & OPT Assy	AWX7875
	2..VIDEO CONNECT Assy	AWX7876
	2..ANALOG IN&A/D Assy	AWX7878
	2..DISPLAY Assy	AWX8140
	2..FRONT A/V Assy	AWX8189
NSP	1..VR & MOTHER Assy	AWM7744
	2..VR&PRE OUT Assy	AWX7888
	2..MOTHER Assy	AWX8142
	1..DAC10 Assy	AWK7725
	1..DSP3 Assy	AWK7727
	1..DSP Assy	AWK7762
NSP	1..POWER AMP Assy	AWH7004
	2..POWER AMP(L) Assy	AWX7882
	2..POWER AMP(R) Assy	AWX7883
	2..POWER AMP(C) Assy	AWX7884
	2..POWER AMP(BR) Assy	AWX7885
	2..POWER AMP(G) Assy	AWX7886
	2..LOCAL SUPPLY Assy	AWX7887
NSP	1..PS&SP Assy	AWK7764
	2..AC PRIMARY Assy	AWX7834
	2..TRANS(A) Assy	AWX7838
	2..POWER SW Assy	AWX7840
	2..DIODE Assy	AWX7841
	2..FUSE Assy	AWX7843
	2..POSISTER(L) Assy	AWX7844
	2..POSISTER(R) Assy	AWX7846
	2..FL SUPPLY Assy	AWX7871
	2..STANDBY Assy	AWX7901
	2..DSP DIODE Assy	AWX7958
	2..TRANS(B) Assy	AWX8057
	2..SP(A) Assy	AWX8148
	2..SP(B) Assy	AWX8151
	1..1394 Assy	AWK7759

Mark No. Description Part No.

A FM/AM TUNER MODULE SEMICONDUCTORS

IC201	BA1451F
IC202	LC72131MD
Q201, Q204, Q205	2SC2412K
Q202	DTA124ES
Q203	DTC124EK

D201	1SS133
D202	MTZJ5.1C

COILS AND FILTERS

L201 FM DET COIL	ATE7003
F202 FM CERAMIC FILTER	ATF-107
F201 FM CERAMIC FILTER	ATF-119
F203 AM CERAMIC FILTER	ATF7026

CAPACITORS

C206	CCSRCH100D50
C212, C213, C226, C233-C235	CCSRCH101J50
C240	CCSRCH101J50
C231, C232	CCSRCH150J50
C223	CEAT100M50
C229	CEAT101M10
C224	CEAT1R0M50
C227	CEAT220M25
C241	CEAT2R2M50
C243	CEAT330M16
C228	CEAT3R3M50
C237	CEAT470M10
C211	CEJQ1R0M50
C210	CEJQ470M16
C204, C238, C613	CKSRYB102K50

C101, C102, C208, C220, C239	CKSRYB103K50
C242, C604	CKSRYB103K50
C216, C217, C225	CKSRYB153K50
C201, C205, C209, C214, C230	CKSRYB223K50
C236, C603	CKSRYB223K50

C221	CKSRYB224K10
C202, C222	CKSRYB473K16
C215	CKSRYB681K50

RESISTORS

R211	RD1/4PU221J
R221	RD1/4PU222J
R233	RD1/4PU391J
R243	RS1/10S0R0J

Mark No.	Description	Part No.
R103		RS1/10S331J
R104		RS1/10S391J
Other Resistors		RS1/16S###J

OTHERS

CN201 13P FFCCONNECTOR	52044-1345
BN201 2P ANTENNA TER.	AKA7002
SHIELD CASE T	ANK7072
SHIELD CASE B	ANK7073
X201 CRYSTAL RES.(7.2MHz)	ASS1093

B A/V I/O ASSY SEMICONDUCTORS

IC2053	BA4558F-HT
IC2052	M62429FP
IC2002	TC9162AF
IC2001	TC9164AF
IC2051	UPC4570C
Q2051	HN1C03F
D2052, D2053	1SS355
D2051	UDZS5.6B

CAPACITORS

C2025, C2029, C2053, C2054	CCSRCH101J50
C2063, C2064, C2077, C2078	CCSRCH101J50
C2071	CCSRCH221J50
C2079, C2080	CEAT100M50
C2075, C2076	CEAT1R0M50
C2055, C2056	CEAT470M25
C2061, C2065, C2066	CEJQ100M16
C2051, C2052, C2059, C2060	CEJQ1R0M50
C2072	CKSRYB102K50
C2019-C2022, C2069, C2081	CKSRYB103K50
C2023, C2024, C2027, C2028	CKSRYB473K25
C2082, C2083	CKSRYB473K50

RESISTORS

R2065	RD1/2LMF561J
⚠ R2067, R2068	RS1/16S102J
⚠ R2031, R2032, R2037, R2038	RS1/16S470J
⚠ R2059, R2060	RS1/16S470J
Other Resistors	RS1/16S###J

OTHERS

CN2002 JE CONNECTOR	17PS-JE
2001 6P PIN JACK	AKB7073
2002-2004 4P PIN JACK	AKB7075
JA2051 2P PIN JACK	DKB1045
CN2001 17P SOCKET	KP200TA17L

2051 2P MINI JACK	VKN1034
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C COMPOSITE ASSY SEMICONDUCTORS

IC2108, IC2109	BU4094BCF
IC2106	NJM2296M
IC2104	PDC084A
IC2101, IC2107	TC74HC4051AFT
IC2102, IC2103	TC74HC4053AFT
IC2105	TK15420M
Q2101-Q2103, Q2105-Q2108	2SC4081
Q2104	UN5212
D2101-D2103	1SS355

Mark No.	Description	Part No.
COILS AND FILTERS		
X2101 CRYSTAL RES.(14.3MHz)		ASS1056
L2102, L2103		LAU100J
L2101		LAU330J

CAPACITORS

C2118	CCSRCH100D50
C2123, C2132	CCSRCH101J50
C2119	CCSRCH150J50
C2120	CCSRCH180J50
C2139, C2151-C2153, C2164	CCSRCH181J50
C2121, C2122	CCSRCH240J50
C2115, C2129, C2177-C2180	CEAT100M50
C2101-C2106, C2114, C2124, C2125	CEAT101M10
C2135, C2136, C2141, C2142	CEAT101M10
C2165, C2166	CEAT101M10
C2131	CEAT1R0M50
C2107-C2113, C2137, C2138	CKSRYB103K50
C2143, C2144, C2154-C2156	CKSRYB103K50
C2159-C2161, C2167, C2168, C2170	CKSRYB103K50
C2130	CKSRYB122K50
C2116, C2126, C2127, C2140	CKSRYB473K25

RESISTORS

Other Resistors	RS1/16S###J
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OTHERS

CN2101 JE CONNECTOR	19PS-JE
2102-2105 2P PIN JACK	AKB7076
JA2101 3P PIN JACK	AKB7109
CN2102 12P SOCKET	KP200TA12L

D S-VIDEO ASSY SEMICONDUCTORS

IC2310	BU4094BCF
IC2305	LA7213
IC2308, IC2309	NJM2296M
IC2306	TC74HC4051AFT
IC2303, IC2304	TC74HC4053AFT
IC2301, IC2302	TC74LVX4051FT
IC2307	TK15420M
⚠ Q2303	2SA1576A
⚠ Q2302	2SC4081
Q2314	HN1B04FU

Q2301	UN5212
D2304, D2305, D2307	1SS355

CAPACITORS

C2352, C2353, C2376-C2381	CCSRCH181J50
C2390-C2392	CEAT100M50
C2301-C2306, C2339, C2340	CEAT101M10
C2347, C2348, C2357, C2358	CEAT101M10
C2361, C2362, C2385, C2386	CEAT101M10
C2338	CEAT3R3M50
C2313-C2318, C2325-C2327	CKSRYB103K50
C2330-C2333, C2335, C2336	CKSRYB103K50
C2341, C2342, C2349, C2350, C2356	CKSRYB103K50
C2359, C2360, C2363, C2364	CKSRYB103K50
C2382-C2384, C2387, C2389	CKSRYB103K50
C2319-C2324, C2328, C2351	CKSRYB104K16
C2373-C2375, C2393, C2394	CKSRYB104K16

Mark No.	Description	Part No.
C2307-C2312		CKSRYB473K25

RESISTORS

Other Resistors	RS1/16S###J
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OTHERS

CN2301 JE CONNECTOR	17PS-JE
CN2302-CN2305 4P MINI DIN SOCKET	AKP7023
JA2301 4P MINI DIN SOCKET	AKP7049
CN2306 8P SOCKET	KP200TA8L

V-CONVERT ASSY SEMICONDUCTORS

IC2862	BU4094BCF
IC2852	MM1093NF
⚠ IC2863	NJM78M09FA
IC2853	TA1270BF
IC2859, IC2860	TC74LVX4053FT
IC2851	TC90A49F
IC2854-IC2858	TK15420M
Q2851, Q2852	2SA1576A
⚠ Q2902	2SA1576A
Q2853, Q2854	2SC4081
⚠ Q2901	2SC4081
Q2904	2SC4081

COILS AND FILTERS

L2856 CHIP FERRITE BEAD	ATL7002
L2852-L2854, L2857	LAU100J
L2855	LAU330J
L2859	LCTA1R0J2520

CAPACITORS

C2865, C2876, C2887	CCSRCH100D50
C2885	CCSRCH101J50
C2919, C2920	CCSRCH120J50
C2867	CCSRCH181J50
C2886	CCSRCH390J50
C2881	CCSRCH391J50
C2873	CCSRCH560J50
C2879	CCSRCH6R0D50
C2851, C2981, C2982, C2989-C2991	CEAT100M50
C2855, C2860, C2862, C2868	CEAT101M10
C2892, C2893, C2903, C2904	CEAT101M10
C2909, C2910, C2917, C2918, C2928	CEAT101M10
C2938, C2945, C2946, C2970, C2971	CEAT101M10
C2853	CEAT1R0M50
C2924, C2926	CEAT2R2M50
C2884, C2985	CEAT470M10
C2874, C2877, C2880	CEAT4R7M50
C2882	CKSRYB102K50
C2854, C2856, C2857, C2859, C2861	CKSRYB103K50
C2863, C2866, C2869-C2872, C2875	CKSRYB103K50
C2878, C2883, C2890, C2891	CKSRYB103K50
C2894-C2897, C2901, C2902	CKSRYB103K50
C2907, C2908, C2911, C2912	CKSRYB103K50
C2915, C2916, C2923, C2929, C2937	CKSRYB103K50
C2943, C2944, C2967, C2978, C2979	CKSRYB103K50
C2852, C2925, C2930-C2935, C2966	CKSRYB104K16
C2983, C2984, C2986	CKSRYB104K16
C2994-C2996	CKSRYB105K6R3
C2864	CKSRYB122K50
C2921	CKSRYB222K50

Mark No.	Description	Part No.
C2927		CKSRYB223K50
C2922		CKSRYB224K10
C2858		CKSRYB474K10
C2969		CKSRYB561K50

RESISTORS

Other Resistors	RS1/16S###J
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OTHERS

CN2851 JE CONNECTOR	09PS-JE
X2851, X2853 CRYSTAL RES.(3.58MHz)	ASS1091
X2852 CRYSTAL RES.(4.43MHz)	ASS1092
X2854 Ceramic RES.(503kHz)	ASS7036
CN2852 18P SOCKET	KP200TA18L

COMPONENT ASSY SEMICONDUCTORS

IC2507	BU4094BCF
IC2505, IC2506	OPA2652U
IC2509	SP232AEP
IC2504	TC74HC4053AFT
IC2501, IC2502	TC74LVX4052FT
IC2503	TC74LVX4053FT
⚠ Q2502	2SA1576A
⚠ Q2501	2SC4081
Q2503	2SC4081
D2501-D2503	1SS355

COILS AND FILTERS

L2501	LAU1R0J
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CAPACITORS

C2541, C2542	CEAT100M50
C2524, C2525, C2532, C2533	CEAT101M10
C2537, C2538, C2567	CEAT101M10
C2563-C2565, C2568	CEAT1R0M50
C2510-C2517, C2522, C2523	CKSRYB103K50
C2530, C2531, C2535, C2536	CKSRYB103K50
C2557, C2558, C2569, C2571-C2579	CKSRYB103K50
C2581	CKSRYB103K50
C2566	CKSRYB104K25
C2582	CKSRYB331K50

RESISTORS

Other Resistors	RS1/16S###J
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OTHERS

CN2501 JE CONNECTOR	19PS-JE
JA2502 6P PIN JACK	AKB7127
JA2501 6P PIN JACK	AKB7141
JA2504 MULTI JACK	AKN7014
CN2505 9P D-SUB SOCKET	AKP1213
CN2502 10P SOCKET	KP200TA10L
2501 SCREW TERMINAL	VNE1948

VIDEO CONNECT ASSY OTHERS

CN3303 10P PLUG	KM200TA10
CN3301 12P PLUG	KM200TA12
CN3304 18P PLUG	KM200TA18
CN3302 8P PLUG	KM200TA8

MIC AMP ASSY

Mark No.	Description	Part No.
SEMICONDUCTORS		
IC3201		M5220FP
Q3204		HN1C01FU
Q3202		RN4903
D3201		1SS355
D3202		UDZS5.6B

CAPACITORS

C3211, C3220, C3226	CCSRCH101J50
C3214	CCSRCH330J50
C3210, C3218, C3221, C3224, C3227	CEAL100M16
C3231, C3232	CEAL101M10
C3206	CEAL220M16
C3212, C3215	CEAL220M35
C3223, C3229, C3230	CEAL330M25
C3250, C3253, C3303	CKSRYB102K50
C3213, C3238, C3252, C3302	CKSRYB103K50
C3205, C3228	CKSRYB104K16

RESISTORS

Other Resistors	RS1/16S###J
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OTHERS

CN3207	52044-1145
CN3205	S4B-PH-K
KN3202	VNF1084

I MIC ASSY

COILS AND FILTERS

L3202 (CHIP INDCTER)	QTL1013
L3203, L3204 (CHIP INDCTER)	VTL1075

CAPACITORS

C3203	CEAL470M10
C3201	CKSRYB103K50
C3202	CKSRYB104K16

RESISTORS

Other Resistors	RS1/16S###J
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OTHERS

CN3202 KR CONNECTOR	B4B-PH-K
CN3201 KR CONNECTOR	B5B-PH-K
JA3201 OPTICAL LINK IN	GP1FA502RZ
JA3202 REMO CON. JACK	RKN1004

J FRONT A/V ASSY

CAPACITORS

C3236	CKSRYB102K50
C3235, C3335	CKSRYB103K50
C3234, C3245	CKSRYB104K16
C3233	CKSRYB473K50

RESISTORS

Other Resistors	RS1/16S###J
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OTHERS

JA3204 FRONT PIN JACK	AKX7014
CN3204 KR CONNECTOR	B8B-PH-K

K HEAD PHONE ASSY

CAPACITORS

C3209	CKSRYB104K16
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RESISTORS

Mark No.	Description	Part No.
	Other Resistors	RS1/16S###J

OTHERS

CN3203 4P FFC CONNECTOR	52045-0445
JA3203 HEADPHONE JACK	RKB1014
KN3201 EARTH METAL FITT.	VNF1084

L ANALOG IN/D ASSY

SEMICONDUCTORS

IC3421, IC3441, IC3461, IC3481	AK5383VS
IC3901	BU4052BCF
IC3423	M5220P
IC3501, IC3502, IC3601, IC3602	NJM2068D
IC3701, IC3702, IC3801, IC3802	NJM2068D

⚠ IC3402	PQ3DZ13
IC3401, IC3422	TC9163AF
IC3424, IC3462	UPC4570C
Q3501, Q3601, Q3701, Q3801	HN1C03F
Q3401	RN4903

D3501, D3502, D3601, D3602	DAN202K
D3701, D3702, D3801, D3802	DAN202K
D3503, D3504, D3603, D3604	DAP202K
D3703, D3704, D3803, D3804	DAP202K
D3901, D3902	UDZS6.2B

COILS AND FILTERS

L3401, L3402, L3421, L3422	ATL7002
L3441, L3442, L3461, L3462	ATL7002
L3481, L3482 (CHIP BEAD)	ATL7002
L3423, L3443, L3463, L3483	QTL1013
(CHIP SOLID INDUCTOR)	

CAPACITORS

C3411-C3414, C3435, C3436	ACH7163
C3473, C3474 (470uF/25V)	ACH7163
C3405, C3428, C3503, C3504	CCSRCH101J50
C3549, C3550, C3563, C3564	CCSRCH101J50
C3567, C3568, C3603, C3604	CCSRCH101J50

C3703, C3704, C3755, C3756	CCSRCH101J50
C3759, C3760, C3803, C3804	CCSRCH101J50
C3401, C3547, C3548, C3559, C3560	CEAT100M50
C3951, C3952	CEAT100M50
C3515, C3516, C3615, C3616	CEAT101M10

C3715, C3716, C3815, C3816	CEAT101M10
C3429, C3430	CEAT101M25
C3551, C3552	CEAT470M16
C3402	CEHAZL101M10
C3421, C3422, C3441, C3442	CENA100M50

C3461, C3462, C3481, C3482	CENA100M50
C3509-C3512, C3523, C3524	CENA100M50
C3561, C3562, C3609-C3612	CENA100M50
C3623, C3624, C3709-C3712	CENA100M50
C3723, C3724, C3753, C3754	CENA100M50

C3757, C3758, C3809-C3812	CENA100M50
C3823, C3824	CENA100M50
C3565, C3566	CENA220M25
C3501, C3502, C3601, C3602	CENA470M25
C3701, C3702, C3801, C3802	CENA470M25

C3427, C3447, C3467, C3487	CKSRYB102K50
C3505-C3508, C3513, C3514	CKSRYB103K50
C3605-C3608, C3613, C3614	CKSRYB103K50
C3705-C3708, C3713, C3714	CKSRYB103K50

Mark No.	Description	Part No.
	C3805-C3808, C3813, C3814	CKSRYB103K50
	C3423, C3424, C3443, C3444	CKSRYB104K16
	C3463, C3464, C3483, C3484	CKSRYB104K16
	C3517, C3518, C3521, C3522, C3575	CKSRYB104K16
	C3577, C3579, C3581, C3617, C3618	CKSRYB104K16
	C3621, C3622, C3717, C3718	CKSRYB104K16
	C3721, C3722, C3817, C3818	CKSRYB104K16
	C3821, C3822	CKSRYB104K16
	C3519, C3520, C3619, C3620	CKSRYB224K10
	C3719, C3720, C3819, C3820	CKSRYB224K10
	C3425, C3445, C3465, C3485	CKSRYB471K50
	C3403, C3404, C3431, C3432	CKSRYB473K50
	C3953, C3954	CKSRYB473K50
	C3557, C3558	CQMA242J50
	C3555, C3556	CQMA822J50

RESISTORS

⚠ R3411-R3414, R3471, R3472	RD1/4MUF470J
R3525-R3528, R3625-R3628	RS1/16S1002F
R3725-R3728, R3825-R3828	RS1/16S1002F
R3765, R3766	RS1/16S1201F
R3589, R3590	RS1/16S1801F
R3509, R3510, R3609, R3610	RS1/16S2701F
R3709, R3710, R3809, R3810	RS1/16S2701F
R3587, R3588, R3763, R3764	RS1/16S2702F
R3511-R3516, R3611-R3616	RS1/16S3901F
R3711-R3716, R3811-R3816	RS1/16S3901F
⚠ R3407, R3408, R3431-R3436	RS1/16S470J
⚠ R3951, R3952	RS1/16S472J
R3501, R3502, R3601, R3602	RS1/16S6801F
R3701, R3702, R3801, R3802	RS1/16S6801F
Other Resistors	RS1/16S###J

OTHERS

3401,3501,3503,3504 4P PIN JACK	AKB7075
CN3402 17P SOCKET	KP200TA17L
CN3401 20P SOCKET	KP200TA20L
CN3403 30P B TO B CONNECTOR	VKN1395

M DISPLAY ASSY SEMICONDUCTORS

IC3002	BU2092F
IC3001	PD5686B
IC3061	TC74HC4053AFT
Q3052	2SA1036K
Q3061	2SA1576A
Q3053, Q3054	2SD2114K
Q3002, Q3062	RN1903
Q3063	RN2903
Q3001, Q3003, Q3051	UN5212
D3061-D3067	1SS355
D3030, D3031	DAN202K
D3027	NSPB510-2283
D3026, D3028, D3029	SLI-343DUW
D3001, D3003, D3005, D3007, D3009	SLI-343URW
D3011, D3013, D3015-D3018, D3025	SLI-343URW
D3019	TLGE68TG
D3033	UDZS6.2B

COILSANDFILTERS

X3001 CERAMIC RES.(4.19MHz)	ASS7042
L3001 CHIP BEAD	ATL7002

Mark No.	Description	Part No.
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SWITCHES AND RELAYS

S3081-S3098	ASG7013
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CAPACITORS

C3035, C3071, C3075, C3076	CCSRCH101J50
C3053	CEAT470M50
C3031, C3061, C3072, C3074	CEJQ101M6R3
C3022	CEJQ4R7M50
C3081-C3084	CKSRYB102K50

C3051, C3062	CKSRYB103K50
C3027, C3034, C3052, C3073, C3079	CKSRYB104K16
C3063	CKSRYB153K50
C3020, C3021	CKSRYB473K50

RESISTORS

R3060	RD1/2LMF103J
⚠ R3050	RD1/4MUF220J
Other Resistors	RS1/16S###J

OTHERS

3001,3003,3004 4P CABLE HOL.	51048-0400
3002 5P CABLE HOL.	51048-0500
CN3001 17P FFC CON.	52492-1720
V3001 FL TUBE	AAV7081
J3001 EARTHLEAD WIRE	DE005WE0

CN3002 3P FFC CONNECTOR	HLEM3S-1
IC3062 REMOE RECEIVER	NJL64H400A

N INPUT SEL ASSY SWITCHES AND RELAYS

S3103	ASX7038
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CAPACITORS

C3110, C3111	CKSRYB103K50
--------------	--------------

RESISTORS

R3109, R3110	RS1/16S473J
--------------	-------------

OTHERS

3104 4P CABLE HOLDER	51048-0400
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O MULTI JOG ASSY SWITCHES AND RELAYS

S3101	ASX7039
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CAPACITORS

C3105, C3106	CKSRYB103K50
--------------	--------------

RESISTORS

R3105, R3106	RS1/16S473J
--------------	-------------

OTHERS

3102 5P CABLE HOLDER	51048-0500
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P VOL ASSY SWITCHES AND RELAYS

S3102	ASX7037
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CAPACITORS

C3108, C3109	CKSRYB103K50
--------------	--------------

RESISTORS

R3107, R3108	RS1/16S473J
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Mark No. Description Part No.

OTHERS

A 3103 4P CABLE HOLDER 51048-0400

Q VR OUT ASSY SEMICONDUCTORS

IC5084 BU4052BCF
IC5023, IC5063, IC5181, IC5182 NJM2068D
⚠ IC5002 NJM78M15FA
⚠ IC5003 NJM79M15FA
IC5022, IC5042, IC5062, IC5082 OPA2134PA

IC5001 TC9274N-016
IC5021, IC5041, IC5061, IC5081 TC94A07F
B IC5043, IC5083 UPC4570C
Q5101, Q5102, Q5201, Q5202, Q5204 HN1C03F
Q5301, Q5302, Q5401, Q5402 HN1C03F

D5001-D5004 1SS355
D5085-D5090 DA204K
D5083, D5084 UDZS6.2B

CAPACITORS

C5007, C5008, C5021, C5022 ACH7163
C5033, C5034, C5041, C5042 ACH7163
C5053, C5054, C5061, C5062 ACH7163
C5081, C5082 (470uF/25V) ACH7163
C5013, C5024, C5044, C5064, C5084 CCSRCH101J50

C5123, C5124, C5223, C5224 CCSRCH101J50
C5257, C5258, C5261, C5262 CCSRCH101J50
C5323, C5324, C5423, C5424 CCSRCH101J50
C5457, C5458, C5461, C5462 CCSRCH101J50
C5153, C5154, C5181, C5182 CCSRCH220J50

C5189, C5190, C5353, C5354 CCSRCH220J50
C5911, C5912, C5921, C5922 CCSRCH330J50
C5931, C5932, C5941, C5942 CCSRCH330J50
C5003-C5006 CEAT100M50
D C5001, C5002 CEAT1R0M50

C5011, C5012, C5095, C5096 CEAT470M25
C5151, C5152, C5251, C5252 CEGA470M35
C5351, C5352, C5451, C5452 CEGA470M35
C5255, C5256, C5259, C5260 CENA100M50
C5455, C5456, C5459, C5460 CENA100M50

C5125-C5128, C5155, C5156 CENA470M25
C5183, C5184, C5225-C5228 CENA470M25
C5325-C5328, C5355, C5356 CENA470M25
C5425-C5428 CENA470M25
C5121, C5122, C5221, C5222 CENA4R7M50

E C5321, C5322, C5421, C5422 CENA4R7M50
C5015-C5017, C5031, C5032 CKSRYB103K50
C5051, C5052, C5071, C5072 CKSRYB103K50
C5091, C5092, C5185-C5188 CKSRYB103K50
C5014 CKSRYB104K16

C5009, C5010, C5025, C5026 CKSRYB473K50
C5029, C5030, C5045, C5046 CKSRYB473K50
C5049, C5050, C5065, C5066 CKSRYB473K50
C5069, C5070, C5085, C5086 CKSRYB473K50
C5089, C5090, C5097, C5098 CKSRYB473K50

F C5131-C5134, C5233-C5236, C5242 CKSRYB473K50
C5244, C5331-C5334, C5431-C5434 CKSRYB473K50

RESISTORS

⚠ R5007, R5008, R5021, R5022 RD1/4MUF470J

Mark No. Description Part No.

⚠ R5029, R5030, R5041, R5042 RD1/4MUF470J
⚠ R5049, R5050, R5061, R5062 RD1/4MUF470J
⚠ R5081, R5082 RD1/4MUF470J
⚠ R5001, R5002 RD1/4MUF4R7J

R5267, R5268, R5467, R5468 RS1/16S1201F
R5265, R5266, R5465, R5466 RS1/16S2702F
⚠ R5005, R5006 RS1/16S470J
⚠ R5091, R5092 RS1/16S472J
Other Resistors RS1/16S###J

OTHERS

5002, 5021 4P PIN JACK AKB7075
JA5042 2P PIN JACK AKB7144
JA5001 4P PIN JACK AKB7145
CN5005 8P CONNECTOR B08B-XASK-1
CN5006 14P CONNECTOR B14B-XASK-1

CN5002 9P SOCKET KP200TA9L
CN5004 6P CONNECTOR S06B-XASK-1
JA5041 1P PIN JACK VKB1074
CN5003 24P B TO B CON. VKN1392
CN5001 30P B TO B CON. VKN1395

R MOTHER ASSY SEMICONDUCTORS

IC5802 AT24C16N-10SI2.5
⚠ IC5806, IC5808 NJM78M15FA
⚠ IC5807, IC5809 NJM79M15FA
IC5801 PD5821B8
IC5810 PST9242NR

IC5803, IC5804 TC74HCT244AF
IC5811, IC5813 TC7S08FU
IC5812 TC7W126FU
⚠ Q5805 2SC5174P
⚠ Q5816 2SK2103

⚠ Q5815 IRF7416
Q5801 RN1903
Q5806 RN4903
Q5808, Q5809, Q5818 UN5112
Q5810 UN511L

Q5807, Q5817 UN5212
D5803-D5806, D5814, D5815 1SS355
D5821-D5823 1SS355
D5819, D5820 DAN202K
D5817 DAP202K

D5801 UDZ11B

COILS AND FILTERS

L5802, L5803, L5806 ATL7002
L5804 LCTA1R0J2520
L5805, L5807-L5809 QTL1013

CAPACITORS

C5839 ACH7141
C5829, C5831, C5834, C5836 CEAT100M50
C5819 CEAT101M16
C5873 CEAT221M6R3
C5868 CEAT331M10

C5847 CEAT471M6R3
C5818 CEJQ100M16
C5832, C5837, C5844 CEJQ100M25
C5801, C5802, C5828, C5830, C5833 CEJQ1R0M50
C5835 CEJQ1R0M50

Mark No.	Description
C5848, C5859	
C5817, C5838, C5840, C5850, C5858	
C5860, C5861, C5863, C5864, C5869	
C5950	
C5804, C5820, C5841, C5843, C5845	
C5849, C5856, C5866, C5872	
C5815	
C5842, C5846	
C5857, C5862, C5867, C5871	
C5803	

RESISTORS

R5840, R5841	
R5901, R5920	
⚠ R5835, R5836	
⚠ R5930	
⚠ R5833, R5837	

Other Resistors

OTHERS

CN5825 JE CONNECTOR
CN5821, CN5823 JE CONNECTOR
CN5822, CN5824 JE CONNECTOR
CN5806 11P FFC CONNECTOR
CN5802 13P FFC CONNECTOR

CN5807 17P FFC CONNECTOR
CN5801 14P FFC CONNECTOR
J5806 2P CONNECTOR ASSY
J5801 1P BOARD IN WIRE
J5803 1P BOARD IN WIRE

X5801 CERAMIC RES.(15.67MHz)
CN5805 9P CONNECTOR
CN5804 KR CONNECTOR
CN5827, CN5828 KR CONNECTOR
CN5810, CN5811 17P B TOB CON.

CN5809 CONNECTOR
CN5813, CN5815, CN5820 17P PLUG
CN5814 20P PLUG
CN5812 7P PLUG
CN5817 9P PLUG

5801 PCB BINDER
CN5819 24P B TO B CON.
CN5816, CN5818 30P B TO B CON.
KN5802 EARTH METAL FITT.

S DSP ASSY SEMICONDUCTORS

IC301
IC101
IC304
IC702
IC203

IC703-IC705
IC302, IC303
IC402
IC202
IC403

IC701
IC201

⚠ IC305, IC415, IC713
⚠ IC416
IC102

CEJQ221M6R3
CKSRYB103K50
CKSRYB103K50
CKSRYB103K50
CKSRYB104K16

CKSRYB104K16
CKSRYB105K6R3
CKSRYB471K50
CKSRYB473K50
CKSRYF105Z10

RAB4C104J
RAB4C221J
RD1/4MUF100J
RD1/4MUF101J
RD1/4MUF4R7J

RS1/16S###J

09R-JE
17R-JE
19R-JE
52045-1145
52045-1345

52045-1745
52492-1420
ADX7375
ADX7376
ADX7391

ASS7043
B09B-XASK-1
B5B-PH-K
B6B-PH-K
BTEM17S-1S

BTEM9S-1S
KM200TA17
KM200TA20
KM200TA7
KM200TA9

VEF1040
VKN1405
VKN1408
VNF1084

ADSST21065LKS-264
AK4114VQ
AYW7023
AYW7029
BA4558F-HT

BU4094BCFV
HY57V161610DTC-8
IS61LV6416-12T
IS62C256-45T
IS63LV1024-12T

M30620SAFP
PM4007A
PQ3DZ13
PQ7VZ5
TC74HC151AF

Mark No. Description Part No.
IC204
IC406, IC409, IC717
IC712
IC111, IC413
IC114, IC714, IC715, IC718
IC716
IC110
IC112, IC410, IC412
IC116
IC711

IC107
IC707-IC710
IC404, IC407, IC411
IC414
IC103

IC719-IC721
IC108
IC405, IC408
IC115
IC113

IC104-IC106
IC205
IC401
Q203, Q204
⚠ Q101, Q210, Q212

Q201, Q202
Q208, Q209
⚠ Q213
Q102
Q211

D203
D202

COILS AND FILTERS

F201
L114, L117, L201, L206, L207
L303, L305-L307, L405-L407
L409, L411, L701-L704(CHIP BEAD)
L202

L101-L108, L110, L113(CHIP IND.)
L118-L120, L203, L204, L413

CAPACITORS

C166, C231, C441, C442
C120, C128, C136, C165
C272
C119, C127, C135
C216

C211
C103, C111, C124, C132, C140
C143, C153, C167, C234
C180, C183, C312, C316, C703
C220

C147, C207, C209, C219, C254
C476, C485
C158, C161
C302
C306, C309, C447, C448, C701

C704
C481, C482, C718, C744, C745

Mark No. Description Part No.
TC74HCT08AF
TC74VHC00FT
TC74VHC04FT
TC74VHC08FT
TC74VHC125FT
TC74VHC126FT
TC74VHC153FT
TC74VHC157FT
TC74VHC257FT
TC74VHC32FT

TC74VHC4040FT
TC74VHC573FT
TC74VHC74FT
TC74VHCU04FT
TC7SET08F

TC7SET08FU
TC7SH04FU
TC7SH86F
TC7WH08FU
TC7WH157FU

TC7WU04F
TK15420M
XCA56367PV150
2SA1037K
2SB1197K

2SC2412K
2SC4081
2SD1781K
DTC124EK
RN1903

1SS355
KV1851

ATF7027
ATL7002
ATL7002
ATL7002
LCTA680J2520

QTL1013
QTL1013

CCSRCH150J50
CCSRCH220J50
CCSRCH221J50
CCSRCH470J50
CCSRCH561J50

CCSRCH750J50
CEAT101M16
CEAT101M16
CEAT101M6R3
CEAT470M10

CEAT470M16
CEHAZA101M10
CEHAZA470M16
CEHAZL101M25
CEJQ101M6R3

CEJQ101M6R3
CEJQ470M16

Mark No. Description**Part No.**

C229
C164
C223, C224, C456

CEJQNP4R7M25
CFTYA474J50
CKSQYB105K10

C222, C323, C325, C331, C334
C336, C341, C349, C351, C364
C423, C430, C452, C455, C462
C464, C469, C471
C108, C112, C116, C117, C123

CKSRYB102K50
CKSRYB102K50
CKSRYB102K50
CKSRYB102K50
CKSRYB103K50

C125, C131, C133, C139, C152
C202, C214, C232, C233, C273
C454, C458, C477, C479
C101, C105, C109, C113, C121
C129, C138, C141, C144

CKSRYB103K50
CKSRYB103K50
CKSRYB103K50
CKSRYB104K16
CKSRYB104K16

C149, C150, C155, C156, C160
C168, C172, C174, C176, C178
C181, C185, C189, C191
C204-C206, C208, C210
C212, C213, C215, C225-C228

CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16

C230, C235, C237, C240-C242
C244, C248, C251, C252, C255
C257, C304, C315, C318, C320
C322, C328, C330, C338, C340
C343, C346, C347, C354

CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16

C356, C357, C360, C362, C366
C368, C384, C388-C391, C393
C395, C398, C400, C401, C403
C405, C407, C422, C424, C427
C429, C431, C434, C436

CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16

C438, C439, C444, C446, C450
C460, C461, C467, C473, C478
C480, C484, C487, C702, C705
C708, C710, C712-C714, C717
C719, C721, C723, C725, C727

CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16

C729, C731, C733, C736, C737
C739, C741, C742, C746, C747
C749, C751-C756
C203
C154, C157, C159, C236

CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB223K50
CKSRYB471K50

C238, C239, C243, C247
C249, C250, C253, C256, C305
C317, C319, C321, C327, C329
C337, C339, C345, C348, C353
C355, C358, C359, C361, C365

CKSRYB471K50
CKSRYB471K50
CKSRYB471K50
CKSRYB471K50
CKSRYB471K50

C367, C386, C387, C397, C402
C404, C408, C443, C449, C451
C453, C459, C463, C465, C466
C468, C470, C472, C474
C706, C707, C709, C716, C748

CKSRYB471K50
CKSRYB471K50
CKSRYB471K50
CKSRYB471K50
CKSRYB471K50

C750
C457

CKSRYB471K50
CKSRYB563K16

RESISTORS

R136, R196, R303, R311, R348
R701, R712, R729, R730
R320, R323, R324
R175, R703, R713, R719, R722
R771

RAB4C101J
RAB4C101J
RAB4C103J
RAB4C221J
RAB4C221J

R345, R346, R368, R369, R766
R772
R329, R330, R365, R376, R377

RAB4C330J
RAB4C330J
RAB4C470J

Mark No. Description**Part No.**

R450
R446, R454, R735-R740

RAB4C470J
RAB4C473J

R356, R371, R372
R133
R467
R468
Other Resistors

RAB4C680J
RS1/16S1802D
RS1/16S3600F
RS1/16S7500F
RS1/16S####J

OTHERS

CN706, CN707 14P FJ CONN.
JA107, JA108 2P PIN JACK
CN709 16P CONNECTOR
CN708 22P CONNECTOR
X201 CRYSTAL RES.(18.43MHz)

14PL-FJ
AKB7148
AKM7049
AKM7052
ASS7009

X101 CRYSTAL RES.(24.58MHz)
X401 CRYSTAL RES.(33.0MHz)
X701 CRYSTAL RES.(7.7MHz)
CN704 2P VH SIDE CONN.
CN701, CN702 17P B TO B CON.

ASS7025
ASS7040
ASS7045
B2PS-VH
BTEM17P-1R

CN703 9P B TO B CON.
JA101-JA104 OPTICAL IN
JA105, JA106 OPTICAL OUT
CN705 22P CONNECTOR
CN401 7P FFC CONN.

BTEM9P-1R
GP1FA502RZ
GP1FA502TZ
RKN1063
VKN1411

CN351 10P FFC CONN.

VKN1600

T DSP3 ASSY SEMICONDUCTORS

IC501
IC504(Flash Rom)
IC502, IC503
⚠ IC505

ADSST21065LKS-264
AYW7024
HY57V161610DTC-8
PQ3DZ13

COILS AND FILTERS

L503, L505-L507

ATL7002

CAPACITORS

C502
C506, C509, C512, C516
C523, C525, C531, C534, C536
C541, C549, C551, C564
C510

CEHAZA101M10
CEJQ101M16
CKSRYB102K50
CKSRYB102K50
CKSRYB103K50

C504, C507, C518, C520, C522
C528, C530, C538, C540, C543
C546, C547, C554, C556, C557
C560, C562, C566, C568, C570
C572, C573, C575, C584, C586

CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16

C588, C590, C592, C594, C595
C598
C505, C517, C519, C521, C527
C529, C537, C539, C545, C548
C553, C555, C558, C559, C561

CKSRYB104K16
CKSRYB104K16
CKSRYB471K50
CKSRYB471K50
CKSRYB471K50

C565, C567, C571, C574, C587
C589, C597

CKSRYB471K50
CKSRYB471K50

RESISTORS

R503, R511, R582
R520, R523, R524
R565, R580, R581, R591, R592
R560, R561, R563, R564
R573-R575

RAB4C101J
RAB4C103J
RAB4C330J
RAB4C470J
RAB4C470J

R588

RAB4C680J

Mark No. Description

Other Resistors

Part No.

RS1/16S###J

OTHERSCN501 16P SOCKET
CN502 22P SOCKET
CN551 10P FFC CONN.AKP7122
AKP7125
VKN1600**U DAC10 ASSY
SEMICONDUCTORS**IC6021, IC6041, IC6061, IC6081
IC6105, IC6106, IC6205, IC6206
IC6305, IC6306, IC6405, IC6406
IC6103, IC6104, IC6203, IC6204
IC6303, IC6304, IC6403, IC6404DF1706E
NJM2068D
NJM2068D
NJM5534DD
NJM5534DDIC6101, IC6102, IC6201, IC6202
IC6301, IC6302, IC6401, IC6402

IC6001

IC6022, IC6042, IC6062, IC6082

PCM1704U-1
PCM1704U-1
PQ3DZ13
TC94A07F**COILSANDFILTERS**L6001, L6021, L6041, L6061, L6081
L6101-L6104, L6201-L6204 (CHIP)
L6301-L6304, L6401-L6404
L6022, L6042, L6062, L6082 (CHIP)ATL7002
ATL7002
ATL7002
QTL1013**CAPACITORS**C6147, C6148, C6247, C6248(47uF/25V)ACH7162
C6347, C6348, C6447, C6448 ACH7162
C6031, C6032, C6051, C6052(470uF ACH7163
C6071, C6072, C6091, C6092 /25V) ACH7163
C6026, C6046, C6066, C6086 CCSRCH101J50C6145, C6146, C6245, C6246
C6345, C6346, C6445, C6446
C6151, C6152, C6251, C6252
C6351, C6352, C6451, C6452
C6149, C6150, C6249, C6250CCSRCH101J50
CCSRCH101J50
CCSRCH220J50
CCSRCH220J50
CCSRCH330J50C6349, C6350, C6449, C6450
C6139, C6140, C6239, C6240
C6339, C6340, C6439, C6440
C6002, C6123, C6124, C6223, C6224
C6323, C6324, C6423, C6424CCSRCH330J50
CEGA4R7M2A
CEGA4R7M2A
CEHAZA101M10
CEHAZA101M10C6117, C6118, C6121, C6122
C6127, C6128, C6217, C6218
C6221, C6222, C6227, C6228
C6317, C6318, C6321, C6322
C6327, C6328, C6417, C6418CEHAZL101M10
CEHAZL101M10
CEHAZL101M10
CEHAZL101M10
CEHAZL101M10C6421, C6422, C6427, C6428
C6021, C6041, C6061, C6081
C6113, C6114, C6213, C6214
C6313, C6314, C6413, C6414
C6001CEHAZL101M10
CEHAZL221M10
CEHAZL471M16
CEHAZL471M16
CENA100M50C6103, C6104, C6109, C6110
C6115, C6116, C6125, C6126
C6203, C6204, C6209, C6210
C6215, C6216, C6225, C6226
C6303, C6304, C6309, C6310CKSRYB103K50
CKSRYB103K50
CKSRYB103K50
CKSRYB103K50
CKSRYB103K50C6315, C6316, C6325, C6326
C6403, C6404, C6409, C6410
C6415, C6416, C6425, C6426
C6022, C6042, C6062, C6082
C6119, C6120, C6219, C6220CKSRYB103K50
CKSRYB103K50
CKSRYB103K50
CKSRYB104K16
CKSRYB104K16

C6319, C6320, C6419, C6420

CKSRYB104K16

Mark No. DescriptionC6033, C6034, C6053, C6054
C6073, C6074, C6093, C6094
C6023, C6043, C6063, C6083
C6105-C6108, C6205-C6208**Part No.**CKSRYB222K50
CKSRYB222K50
CKSRYB471K50
CKSRYB471K50C6305-C6308, C6405-C6408
C6027, C6028, C6047, C6048
C6067, C6068, C6087, C6088
C6131-C6134, C6141-C6144
C6231-C6234, C6241-C6244CKSRYB471K50
CKSRYB473K50
CKSRYB473K50
CKSRYB473K50
CKSRYB473K50C6331-C6334, C6341-C6344
C6431-C6434, C6441-C6444
C6101, C6102, C6111, C6112(47uF/10V)
C6201, C6202, C6211, C6212(47uF/10V)
C6301, C6302, C6311, C6312(47uF/10V)CKSRYB473K50
CKSRYB473K50
RCH1139
RCH1139
RCH1139C6401, C6402, C6411, C6412(47uF/10V)
C6135, C6136, C6235, C6236(470pF)
C6335, C6336, C6435, C6436(470pF)
C6137, C6138, C6237, C6238(220pF)
C6337, C6338, C6437, C6438(220pF)RCH1139
VCE1035
VCE1035
VCE1040
VCE1040C6129, C6130, C6229, C6230(100pF)
C6329, C6330, C6429, C6430(100pF)VCE1045
VCE1045**RESISTORS**R6101, R6102, R6201, R6202(2.55k)
R6301, R6302, R6401, R6402(2.55k)
⚠ R6031, R6032, R6051, R6052
⚠ R6071, R6072, R6091, R6092
Other ResistorsACN7105
ACN7105
RD1/4MUF470J
RD1/4MUF470J
RS1/16S###J**OTHERS**CN6001, CN6002 14P FJ CONN.
CN6004 17P SOCKET
CN6003 7P SOCKET14R-FJ
KP200TA17L
KP200TA7L**V POWER AMP(L) ASSY
SEMICONDUCTORS**⚠ IC4101, IC4401, IC4601
⚠ IC4102, IC4302, IC4402, IC4602
⚠ IC4103, IC4403, IC4603
Q4101, Q4301, Q4401, Q4601
Q4801, Q4803, Q4805PA9008A
PBD001A
PBD002A
2SA1255
2SC2412KQ4102, Q4402, Q4602
Q4104, Q4204, Q4304, Q4404, Q4604
D4103-D4106, D4305, D4403-D4406
D4603-D4606
D48012SC3138
2SC3326
1SS355
1SS355
UDZ2.7BD4101, D4102, D4401, D4402
D4601, D4602UDZS7.5B
UDZS7.5B**CAPACITORS**C4110, C4111, C4410, C4411
C4610, C4611
C4809
C4115, C4116, C4415, C4416
C4615, C4616CCSRCH220J50
CCSRCH220J50
CEAT221M16
CEAT221M63
CEAT221M63C4109, C4409, C4609
C4801, C4803
C4103, C4403, C4603
C4108, C4408, C4608
C4101, C4401, C4601CEAT470M16
CEAT471M63
CEHAT102M10
CEHAT470M16
CEHAZL101M10C4106, C4107, C4406, C4407
C4606, C4607CEHAZL470M25
CEHAZL470M25

Mark No.	Description	Part No.
	C4104, C4105, C4404, C4405	CFTLA104J2A
	C4604, C4605	CFTLA104J2A
	C4112, C4113, C4412, C4413	CFTYA224J50
	C4612, C4613	CFTYA224J50
	C4102, C4402, C4602	CKSRYB221K50

RESISTORS

⚠ R4110, R4111, R4125, R4126, R4310	ACN7107
⚠ R4325, R4410, R4411, R4425, R4426	ACN7107
⚠ R4610, R4611, R4625, R4626 (0.1)	ACN7107
R4117, R4417, R4617 (10k)	ACN7117
R4103, R4403, R4603 (330)	ACN7118

R4104, R4404, R4604 (22)	ACN7119
R4127, R4128, R4327, R4427, R4428	RS1/16S1001F
R4627, R4628	RS1/16S1001F
R4129, R4130, R4329, R4429, R4430	RS1/16S1003F
R4629, R4630	RS1/16S1003F

R4116, R4133, R4134, R4316, R4333	RS1/16S1004F
R4416, R4433, R4434, R4616	RS1/16S1004F
R4633, R4634	RS1/16S1004F
R4112, R4113, R4312, R4412, R4413	RS1/16S1502F
R4612, R4613	RS1/16S1502F

R4114, R4115, R4314, R4414, R4415	RS1/16S1503F
R4614, R4615	RS1/16S1503F
R4131, R4132, R4331, R4431, R4432	RS1/16S3902F
R4631, R4632	RS1/16S3902F
⚠ R4118, R4418, R4618	RS1LMF2R2J

Other Resistors

RS1/16S###J

OTHERS

J4801 LEAD HOUSING	ADX7370
CN4812 2P CONNECTOR	B02B-XASK-1
CN4803 11P PLUG	KM250NA11L
CN4805 15P PLUG	KM250NA15L
CN4801 8P CONN.	S08B-XASK-1

4801, 4803, 4805 SCREW TERM.	VNE1949
4809 EARTH FITTING	VNF-091

W POWER AMP(C) ASSY

SEMICONDUCTORS

⚠ IC4301	PA9008A
D4303, D4304	1SS355
D4301, D4302	UDZS7.5B

CAPACITORS

C4310, C4311	CCSRCH220J50
C4315, C4316	CEAT221M63
C4309	CEAT470M16
C4303	CEHAT102M10
C4308	CEHAT470M16

C4301	CEHAZL101M10
C4306, C4307	CEHAZL470M25
C4304, C4305	CFTLA104J2A
C4312, C4313	CFTYA224J50
C4302	CKSRYB221K50

RESISTORS

R4317	ACN7117
R4303	ACN7118
R4304	ACN7119
⚠ R4318	RS1LMF2R2J
Other Resistors	RS1/16S###J

Mark No.	Description	Part No.
OTHERS		
	CN4808 13P SOCKET	KP250NA13
	CN4807 15P SOCKET	KP250NA15

X POWER AMP(R) ASSY

SEMICONDUCTORS

⚠ IC4201, IC4501, IC4701	PA9008A
⚠ IC4202, IC4502, IC4702	PBD001A
⚠ IC4203, IC4303, IC4503, IC4703	PBD002A
Q4201, Q4501, Q4701	2SA1255
Q4802, Q4804, Q4806	2SC2412K

Q4202, Q4302, Q4502, Q4702	2SC3138
Q4504, Q4704	2SC3326
D4203-D4206, D4306, D4503-D4506	1SS355
D4703-D4706	1SS355
D4802	UDZ2.7B

D4201, D4202, D4501, D4502	UDZS7.5B
D4701, D4702	UDZS7.5B

CAPACITORS

C4210, C4211, C4510, C4511	CCSRCH220J50
C4710, C4711	CCSRCH220J50
C4810	CEAT221M16
C4215, C4216, C4515, C4516	CEAT221M63
C4715, C4716	CEAT221M63

C4209, C4509, C4709	CEAT470M16
C4802, C4804	CEAT471M63
C4203, C4503, C4703	CEHAT102M10
C4208, C4508, C4708	CEHAT470M16
C4201, C4501, C4701	CEHAZL101M10

C4206, C4207, C4506, C4507	CEHAZL470M25
C4706, C4707	CEHAZL470M25
C4204, C4205, C4504, C4505	CFTLA104J2A
C4704, C4705	CFTLA104J2A
C4212, C4213, C4512, C4513	CFTYA224J50

C4712, C4713	CFTYA224J50
C4202, C4502, C4702	CKSRYB221K50

RESISTORS

⚠ R4210, R4211, R4225, R4226, R4311	ACN7107
⚠ R4326, R4510, R4511, R4525, R4526	ACN7107
⚠ R4710, R4711, R4725, R4726 (0.1)	ACN7107
R4217, R4517, R4717 (10k)	ACN7117
R4203, R4503, R4703 (330)	ACN7118

R4204, R4504, R4704 (22)	ACN7119
R4227, R4228, R4328, R4527, R4528	RS1/16S1001F
R4727, R4728	RS1/16S1001F
R4229, R4230, R4330, R4529, R4530	RS1/16S1003F
R4729, R4730	RS1/16S1003F

R4216, R4233, R4234, R4334, R4516	RS1/16S1004F
R4533, R4534, R4716, R4733, R4734	RS1/16S1004F
R4212, R4213, R4313, R4512, R4513	RS1/16S1502F
R4712, R4713	RS1/16S1502F
R4214, R4215, R4315, R4514, R4515	RS1/16S1503F

R4714, R4715	RS1/16S1503F
R4231, R4232, R4332, R4531, R4532	RS1/16S3902F
R4731, R4732	RS1/16S3902F
⚠ R4218, R4518, R4718	RS1LMF2R2J
Other Resistors	RS1/16S###J

OTHERS

J4802 LEAD HOUSING	ADX7371
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Mark No.	Description	Part No.
	CN4813 2P CONNECTOR	B02B-XASK-1
	CN4806 13 PLUG	KM250NA13L
	CN4804 9P PLUG	KM250NA9L
	CN4802 6P CONNECTOR	S06B-XASK-1
	4802,4804,4806 SCREW TER.	VNE1949
	4810 EARTH FITTING	VNF-091

Y POWER AMP(BR) ASSY

SEMICONDUCTORS

Q4303, Q4403	2SC2412K
Q4103	DTA124EK
D4806	1SS355
D4805	UDZS5.1B

CAPACITORS

C4812	CKSRYF105Z10
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RESISTORS

Other Resistors	RS1/16S###J
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OTHERS

J4803 BOARD IN WIRE	ADX7372
CN4809 11P SOCKET	KP250NA11
CN4810 9P SOCKET	KP250NA9
CN4811 8P CONNECTOR	S08B-XASK-1

Z POWER AMP(G) ASSY

OTHERS

J4804 BOARD IN WIRE	ADX7363
4807,4808 EARTH FITTING	VNF-091

AA LOCAL SUPPLY ASSY

SEMICONDUCTORS

⚠ IC4047 (315mA)	AEK7003
⚠ IC4023, IC4024 (500mA)	AEK7005
⚠ IC4045, IC4046 (500mA)	AEK7005
⚠ IC4036 (1A)	AEK7009
⚠ IC4035 (1.25A)	AEK7010
⚠ IC4011	LM1085IT-5.0
⚠ IC4021, IC4031	LM2940CT-5.0
⚠ IC4041	NJM7820FA
⚠ IC4043	NJM78M15FA
⚠ IC4033	NJM78M56FA
⚠ IC4042	NJM7918FA
⚠ IC4022, IC4032	NJM79M05FA
Q4054	2SA1037K
⚠ Q4022, Q4052	2SB951A
⚠ Q4021, Q4051	2SD1277A
Q4053	2SK1132
D4031, D4032, D4057	1SS355
⚠ D4003, D4004	D3SBA20(B)
D4041	HZU2.2B
D4034	RB501V-40

CAPACITORS

C4003	ACE7036
C4051, C4052	ACH7117
C4011	ACH7159
C4053, C4054	CEAT101M63
C4023, C4024	CEAT471M16
C4021, C4022, C4032	CEAT472M16
C4041, C4042	CEAT472M35

Mark No.	Description	Part No.
C4031		CEAT682M16
C4025, C4026		CEHAZA470M16
C4045-C4047		CEJQ100M50
C4055, C4056		CEJQ100M63
C4013, C4035, C4036, C4038		CEJQ101M6R3
C4029, C4030, C4039, C4040, C4049		CEJQ470M16
C4002		CFTLA474J2A
C4001		CFTYA105J50

C4057	CKSRYB102K50
C4043, C4044, C4048	CKSRYB103K50
C4014, C4015, C4027, C4028	CKSRYB104K16
C4033, C4034, C4037	CKSRYB104K16
C4061-C4064	CKSRYB473K16

⚠ D4002, D4005	S1VB20/F03
D4059, D4060	UDZ12B
D4051-D4054	UDZ15B
D4055, D4056	UDZ16B

RESISTORS

⚠ R4003	RD1/2MMF470J
⚠ R4021, R4022	RD1/4MUF151J
⚠ R4001, R4002	RD1/4MUF330J
⚠ R4051, R4052	RD1/4MUF472J
Other Resistors	RS1/16S###J

OTHERS

J4004 6P CONNECTOR	ADX7373
J4002 4P CONNECTOR	ADX7374
CN4002 3P CONNECTOR	B03B-XASK-1
CN4001 8P CONNECTOR	B08B-XASK-1
CN4004 9P CONNECTOR	B09B-XASK-1

CN4005 2P CONNECTOR	B2P-VH
KN4001, KN4002 EARTH FIT.	VNF1084

AB AC PRIMARY ASSY

SEMICONDUCTORS

IC1103	BU4094BC
⚠ IC1101	NJM78M56FA
⚠ IC1102	NJM79M24FA
Q1102	2SB1197K
Q1101	2SC2412K
Q1103	DTC124EK
D1103, D1106, D1109	1SS355
⚠ D1101	S1VB20/F03
D1102	UDZS5.1B
IC351	M56788AFP
⚠ IC303 (1.8V)	PQ018EZ01ZP
IC601	STI5519AVB-B0C
IC605	TC7WU04FU
IC603	VYW1948

COILS AND FILTERS

L1101, L1102 (NOISE FILTER)	RTF1167
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TRANSFORMERS

⚠ T1101	ATT7043
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CAPACITORS

C1107	CCSRCH101J50
C1109	CEAT100M50
C1103, C1104	CEAT101M10
C1102	CEAT222M25
C1110	CEAT470M25

Mark No.	Description	Part No.
C1101		CFTYA104J50
C1106		CKSRYB104K16
C1105		CKSRYB473K16

RESISTORS

Other Resistors

RS1/16S###J

OTHERS

CN1105 3P JUMPER CON.
 ⚠ CN1101 6P SOCKET
 CN1104 14P FFC CON.
 CN1102 7P SOCKET
 CN1103 8P SOCKET

52151-0310
 AKP7141
 HLEM14R-1
 KP250NA7
 KP250NA8

KN1101 EARTH FITT.

VNF1084

AC POWER SW ASSY

SWITCHES AND RELAYS

⚠ S1301

ASG7024

CAPACITORS

C1301, C1302

CFTLA103J50

OTHERS

CN1301 3P JUMPER CON.

52147-0310

AD SP(A) ASSY

SEMICONDUCTORS

Q1201, Q1203, Q1205, Q1207, Q1209
 Q1202, Q1204, Q1206, Q1208, Q1210
 D1201-D1210

DTA124EK
 DTC124EK
 1SS355

SWITCHES AND RELAYS

RY1201-RY1205

ASR7001

CAPACITORS

C1201-C1207

CQHA102J2A

RESISTORS

⚠ R1231-R1237
 ⚠ R1211, R1212
 Other Resistors

RD1/4MUF100J
 RS2LMF331J
 RS1/16S###J

OTHERS

J1201 BOARD IN WIRE
 J1206 3P CONN.
 J1207, J1208 1P WIRE
 ⚠ CN1202 8P SP TERMINAL
 ⚠ CN1201 6P SP TERMINAL

ADX7362
 ADX7364
 ADX7368
 AKE7087
 AKE7088

L1201-L1207 AF COIL
 CN1206 4P FFC CONN.
 CN1205 8P PLUG

ATH1053
 HLEM4S-1
 KM250NA8L

AE FL SUPPLY ASSY

SEMICONDUCTORS

⚠ Q1901
 D1901, D1902

2SC5174P
 UDZ22B

CAPACITORS

C1901-C1903

CEJQ100M50

RESISTORS

Mark No. Description Part No.

⚠ R1901
 Other Resistors

RD1/4MUF272J
 RS1/16S###J

OTHERS

CN1902 4P JUMPER CONN.
 CN1901 4P CONN.

52147-0410
 B04B-XASK-1

AF STANDBY ASSY

SWITCHES AND RELAYS

S1901

ASG7013

OTHERS

CN1903 3P FFC CONN.

52044-0345

AG POSISTER(L) ASSY

OTHERS

J1901 2P CONNECTOR ASSY
 ⚠ TH1901 POSISTOR

ADX7365
 AEX7006

AH POSISTER(R) ASSY

OTHERS

J1902 2P CONNECTOR ASSY
 ⚠ TH1902 POSISTOR

ADX7365
 AEX7006

AI DSP DIODE ASSY

SEMICONDUCTORS

⚠ D1903

D5SBA20(B)

OTHERS

CN1904 4P CONNECTOR

S04B-XASK-1

AJ SP(B) ASSY

SEMICONDUCTORS

Q1004
 Q1002, Q1003
 Q1001
 D1001-D1006

DTA124EK
 DTC124EK
 DTC143EK
 1SS355

COILS AND FILTERS

⚠ L1001 (LINE FILTER)

ATF7018

SWITCHES AND RELAYS

RY1003
 ⚠ RY1002
 ⚠ RY1001

ASR7001
 ASR7016
 ASR7022

CAPACITORS

⚠ C1001, C1002 (0.01uF/AC250V)
 C1003, C1004

ACG7033
 CQHA102J2A

RESISTORS

⚠ R1002 (15 10W)
 ⚠ R1003 (2.2 1/2W)
 Other Resistors

ACN7116
 RCN1080
 RS1/16S###J

OTHERS

⚠ CN1006 4P SP TERMINAL
 ⚠ CN1001 6P PLUG
 ⚠ 1004 1P AC OUTLET
 H1001, H1002 FUSE HOL.
 CN1005 7P PLUG

AKE7089
 AKM7056
 AKP1033
 AKR1007
 KM250NA7L

⚠ CN1002 AC CORD SOCKET

RKP1751

Mark No. Description Part No.

⚠ CN1003 AMP U-P CONN.
1001 SCREW TER.

RKP1834
VNE1948

AK DIODE ASSY SEMICONDUCTORS

⚠ D1501
⚠ D1502

KCH30A15
KRH30A15

CAPACITORS

C1501(1uF/250V)

ACE7036

RESISTORS

⚠ R1501

RD1/2MMF470J

OTHERS

J1501 BOARD IN WIRE
J1502 BOARD IN WIRE
J1503 BOARD IN WIRE
J1504 BOARD IN WIRE

ADX7358
ADX7359
ADX7360
ADX7361

AL FUSE ASSY

OTHERS

H1801-H1810 FUSE CLIP
CN1803 4P CONNECTOR
CN1802 8P CONNECTOR
CN1801 12P CONNECTOR

AKR1004
B04B-XASK-1
B08B-XASK-1
S12B-XASK-1

AM TRANS(A) ASSY

CAPACITORS

C1601

CFTYA105J50

RESISTORS

⚠ R1601

RD1/4MUF100J

OTHERS

CN1601 5P CONNECTOR

B05B-XASK-1

AN TRANS(B) ASSY

SEMICONDUCTORS

⚠ D1701
D1702

S1VB20/F03
UDZS7.5B

CAPACITORS

C1701
C1702

CEAT331M50
CEJQ101M10

RESISTORS

⚠ R1703-R1706

RS1/16S2R2J

OTHERS

⚠ IC1703 PROTECTOR(750mA)
H1701-H1704 FUSE CLIP
CN1701 3P CONNECTOR
CN1702 7P CONNECTOR

AEK7007
AKR1004
B03B-XASK-1
B07B-XASK-1

AO 1394 MODULE ASSY

SEMICONDUCTORS

IC203
IC402
IC302
⚠ IC2
⚠ IC1

IC204

BU2370FV
CY22381FC-PA
K4S641632F-TC75
MM1562FF
NJM2391DL1-33
NJU7093AF

Mark No. Description Part No.

IC101
IC306
IC103
IC401

PD5787A
PE9014A
PST9245
SM5816AF

IC304, IC405
IC104
IC205
IC403
IC404

TC74VHC257FT
TC74VHCT125AFT
TC7SH08FU
TC7SZ126FU
TC7WH02FU

IC201
IC301
Q103
Q401
D103

TSB43CA43GGW
XC2S50-5TQ144C
DTA124EUA
DTA143EUA
RB501V-40

COILS AND FILTERS

X301 (33.86MHz)
X302 (36.86MHz)
L1, L101, L2, L201-L203 (CHIP
L301, L302, L401, L402 INDUCTOR)
X201 (24.58MHz)

ASS7049
ASS7050
ATL7002
ATL7002
VSS1151

X101 (CERAMIC RES.)
L291-L294 (COIL)

VSS1179
VTH1043

CAPACITORS

C275 (2.2uF/6.3V)
C204, C205
C285, C286
C13
C1, C307, C421, C9

ACG7045
CCSRCH120J50
CCSRCH221J50
CCSRCH471J50
CEV101M16

C202, C212, C261, C277, C306
C324, C413
C208, C222, C223, C263, C270
C322, C325, C326
C102, C112, C330

CEVL101M6R3
CEVL101M6R3
CKSRYB102K50
CKSRYB102K50
CKSRYB103K50

C101, C103, C104, C110, C113
C2, C201, C203, C206, C207
C209-C211, C213-C221
C224-C227, C262, C264
C271-C274, C276, C287, C288

CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB104K16

C3, C301-C305, C308-C320
C329, C331, C332, C404-C410
C415, C418-C420, C424
C10, C11, C14, C15, C278
C282, C283

CKSRYB104K16
CKSRYB104K16
CKSRYB104K16
CKSRYB105K6R3
CKSRYB105K6R3

C414, C422
C279

CKSRYB471K50
CKSRYB472K50

RESISTORS

R110, R116-R119, R220-R223
R227, R228, R249
R115
R410
R309, R310, R319-R326

RAB4C101J
RAB4C101J
RAB4C103J
RAB4C221J
RAB4C470J

R101-R104, R203, R209, R212
R219, R229, R230, R238, R248
R256, R358-R361
R316, R405
R294, R295

RAB4C472J
RAB4C472J
RAB4C472J
RAB4C680J
RS1/16S5101F

R283-R286, R289-R292
R206
Other Resistors

RS1/16S56R0D
RS1/16S6341D
RS1/16S###J

Mark No. Description Part No.

OTHERS

A	CN101 7P FFC CONNECTOR	RKN1048
	CN401 22P FFC CONNECTOR	VKN1426
	JA1, JA2 1394 TERMINAL	VKN1800

B

C

D

E

F

6. ADJUSTMENT

There is no information to be shown in this chapter.

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 Test mode

• How to Enter the Test Mode

With the attached Remote Control Unit.

1. Press the [REMOTE SETUP]+[PRESET RECALL] keys simultaneously to enter the "SECRET" mode.
2. Press the [Δ]+[▽]+[VCR2] keys simultaneously to enter the Test Mode.
LCD displays the "SECRET [VCR2]".

1. Test Mode ON (Press [C] key)

- Set the function to CD.
- Set the signal selection to AUTO.
- Set the tuner-preset data.
- Set speaker A to ON and speaker B to OFF.
- Set the BASS and TREBLE to +6.
- Set the remaining items to their factory settings.

Display: TEST MODE

2. Test Mode OFF (Press [0] key)

When you quit Test mode, the unit automatically enters STANDBY status.

Note: Do NOT quit Test mode by disconnecting the power cord. Doing so prevents factory-set data from being written to EEPROM to backup the data.

3. Items to be checked in Test mode

For checking the main unit of a product: Remote control codes A55F+A500 ([1] key) through A55F+ A509 ([0] key).

1. FL display check (Press [1] key)

Normal display → All FLs and LEDs on → All FLs and LEDs off → Normal display → . . .

Display transition:
TEST MODE → FL ALL ON → FL ALL OFF → TEST MODE

2. Bass and treble operations (Press [4] key)

Each time this code is issued, the bass and treble values change.

In modes (THX, Direct, Multichannel-Direct) in which tone control is invalid, the display also changes as shown below.

To use, select a mode (Standard, etc.) in which tone control is valid.

Display transition:
TRE/BASS 0dB → TRE/BASS MAX → TRE/BASS 0dB

Remarks:

In Test mode, the bass and treble keys on the main unit functions as follows:

- + : 0 dB → +6 dB → 0 dB → +6 dB, . . .
- : 0 dB → -6 dB → 0 dB → -6 dB, . . .

3. Master volume switching (Press [5] key)

When this code is issued, the master volume changes.
Trimming of all channels becomes 0 dB at this time.

Display transition:
TEST VOL MIN → TEST VOL MAX → TEST VOL MIN

4. Tuner 9K/10K switching (Press [6] key)

When this code is issued, the reception frequency interval of the tuner cyclically changes.

The code is valid only with models (SD models) having 9K/10K switching capability.

Display transition:
TEST TUN 9K → TEST TUN 10K → TEST TUN 9K

5. FAN ON/OFF (Press [8] key)

When this code is issued, the fan turns on or off.
The code is valid only with models having a fan.

Display transition: FAN OFF → FAN ON

OFF : Fan stops.

ON : Fan operates.

6. Microphone input check (Press [9] key)

When this code is issued, Direct mode is selected (a path that bypasses DSP), and a microphone input signal will be output from the pre-output on the front panel.

- Set the function to CD.
- Set the signal selection to AUTO.

Display transition: TEST MIC CHECK

7. RS232C operation check (Press [2] key)

When this code is issued, the RS-232C transmission port is switched to act as a general-purpose port, and self-check of data input/output ports is performed.

The signal ("L" output) at the data output port is read to the data-input port and checked as to whether it is correct or not. "H" is output from the CTS port.

If the port self-check successfully ends:

Display: MAIN RS232C OK

If the port self-check fails:

Display: MAIN RS232C NG

8. Tuner: Auto scan (Press [3] key)

When this code is issued, an auto scan operation begins.

The step of frequency increment is forcibly set to 9K.

If the function is not Tuner, it is switched to Tuner, then auto scanning starts from 88.5 MHz FM in the + direction.

When the code is issued again, auto scan starts from 1062 kHz AM in the - direction.

The reception points on the line:

AM : 1008 kHz

FM : 89 MHz

* If this code is issued during auto scanning, it merely causes the operation to stop. Issue the code again to resume auto scanning.

9. Video converter operation check (Press [7] key)

When this code is issued, All-through mode will be selected.

The video converter operation is deactivated.

The following assignment will be made for component connectors

1 to 3 and D4 connectors 1 and 2.

Component 1 : DVD/LD

Component 2 : TV

Component 3 : VCR2

D4-1 : SAT

D4-2 : VCR1/DVR

For checkers: Remote control codes other than A55F+A500 ([1] key) through A509 ([0] key).

7.1.2 Protection Circuit Control Specifications

(1) Fan control

Valid with European and other general-area models only.

1 Fan on/off

If the temperature at the heat sink rises, the TEMP1 port becomes "H." Detecting "H," the microcomputer starts the fan. No indication is made on the FL display.

2 Fan detection

If the fan is forcibly stopped, the FAN_DET port becomes "H." Detecting "H," the microcomputer performs the following operations:

1. System muting on
2. Protection relays off

The warning indication "FAN STOP" appears (flashing) on the FL display.

If this status continues for more than 3 seconds, the power is turned off (for Standby mode).

If the port becomes "L" within 3 seconds, the unit resets automatically.

(2) Transformer temperature rise control

Valid with European and Japanese domestic models only.

European models

If the temperature at the transformer rises, the TRANS_DET port becomes "H."

Detecting "H," the microcomputer performs the following operations:

1. System muting on
2. Protection relays off

As long as the detection port remains "H," statuses 1 and 2 are maintained.

When the port becomes "L" (when the temperature at the transformer drops), statuses 1 and 2 are canceled, and the unit resets automatically (automatic reset is requested by safety regulations).

The warning indication "OVER HEAT" appears on the FL display.

(3) Temperature detection

Valid with North American and Japanese domestic models only.

The process mentioned in (1) is performed with European and other general-area models.

If the temperature at the heat sink rises, the TEMP1 port becomes "H." Detecting "H," the microcomputer performs the following operations:

1. System muting on
2. Protection relays off

The warning indication "OVER HEAT" appears on the FL display.

If this status continues for more than 3 seconds, the power is turned off (for Standby mode).

If the port becomes "L" within 3 seconds, the unit resets automatically.

(4) Overload detection (abnormality detection)

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

Detecting "H" in an interrupt process, the microcomputer performs the following operations:

1. System muting on
2. All relays off (expander output off)

The expander output is turned off to perform detection during the interrupt. As the AC relay is also turned off, no warning indication appears on the FL display.

3. Power off (Standby mode)

(5) DC detection (defect detection)

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

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

Detecting "H," the microcomputer performs the following operations:

1. System muting on
2. Protection relays off

The warning indication "AMP ERR" appears on the FL display.

If this status continues for more than 3 seconds, the power is turned off (for Standby mode).

If the port becomes "L" within 3 seconds, the unit resets automatically.

When the power is turned off owing to DC detection (also when a user prompted by the warning indication turns off the switch on the primary side), key inputs are disabled for 60 seconds.

The microcomputer backs up the value of the 60-second timer. The unit will only enter Standby mode, and power will not be turned on within 60 seconds in response to a key input after power-off on the primary side. (When the switch on the primary side is turned on again, key inputs will be limited for 60 seconds even if the timer value is less than 60 seconds.)

After DC detection, power-on from the multiroom side is also disabled for 60 seconds.

If the unit resets within 3 seconds (before the power is turned off) after DC detection, the normal operation is restored.

(6) Diagnostic mode

This mode is only for servicing and checking the circuit design, and not open to users.

When the DNR key and VSEL key are both held pressed for 3 seconds in Standby mode, the power is turned on, and the number of times of each defect or abnormality detection is sequentially displayed on the FL display.

Displayed items:

- DC detection
- Overload detection
- Fan detection
- Temperature detection

Hold the DNR key and VSEL key pressed for 3 seconds in Standby mode.

PROTECT CHECK	
DC	003



PROTECT CHECK	
OVER	000



PROTECT CHECK	
FAN	000

* With models other than North American models



PROTECT CHECK	
TEMP	000

* With North American and Japanese domestic models

There is no specific mode for clearing the above-mentioned diagnostic mode.

Diagnostic mode is only cleared with an all-reset operation.

● Protection process list

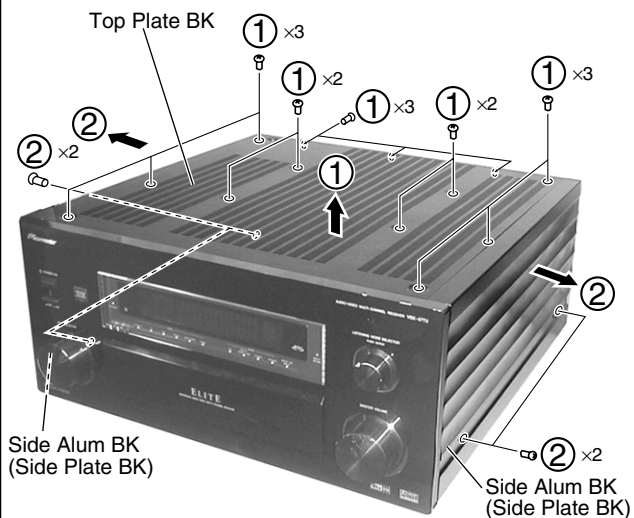
Item	Purpose	Detection Method	Process	Warning Indication	Remarks	North America	Japan	Europe	General Areas
DC detection	To detect amplifier damage (defect status) A process to protect speakers (for protection of connected external devices)	Detects when the DC_DET port becomes "H."	Turns muting on and protection relays off, then turns off the power after 3 seconds.	Flashing "AMP ERR" for 3 seconds	Once detected, key inputs are disabled for 60 seconds. If the DC_DET port becomes "L" within 3 seconds, the unit resets automatically.	○	○	○	○
AMP overload	To detect overloading (abnormal status) With low-load driving or a short circuit of the speaker terminals (for protection of the amplifier)	Detects when the AMP_OL port becomes "H" (checks by interrupt).	Turns muting on and all relays off, and immediately turns off the power.	None		○	○	○	○
Power AMP Fan control	Protection function against a temperature rise at the heat sink	Detects when the TEMP1 port becomes "H" (checks by interrupt).	Rotates the fan.	None	The fan stops when the TEMP1 port becomes "L." It is stop after 10 seconds.	X	X	○	○
Fan stop (models with a fan models only)	To know that the rotating fan is forcibly stopped	Detects when the FAN_DET port becomes "H."	Turns muting on and protection relays off, then turns off the power after 3 seconds.	Flashing "FAN STOP" for 3 seconds	If the FAN_DET port becomes "L" within 3 seconds, the unit resets automatically.	X	○	○	○
Transformer temperature detection	Protection function against a temperature rise at the transformer	Detects when the TRANS_DET port becomes "L."	Rotates the fan.	None	The fan stops when the TRANS_DET port becomes "L."	X	○	X	X
Temperature detection (1)	Protect function against a temperature rise at the heat sink	Detects when the TEMP1 port becomes "H."	Turns muting on and protection relays off, then turns off the power after 3 seconds.	Flashing "OVER HEAT" for 3 seconds	If the TEMP1 port becomes "L" with in 3 seconds, the unit resets automatically.	○	○	X	X
Power AMP temperature detection (2)	The self-return type by temperature rise of a heat sink	Detects when the TRANS_DET port becomes "H"	Turns muting on and speaker relays off.	Flashing and "OVER HEAT"	If the TRANS_DET port becomes "L" with in 5 seconds, the unit resets automatically.	X	X	○	○

Note: Reset and key input are enabled after DC detection, as the DC detection circuit is designed to detect DC as well as low frequencies (lower than 5 Hz) and the warning may be caused by something other than a defect.

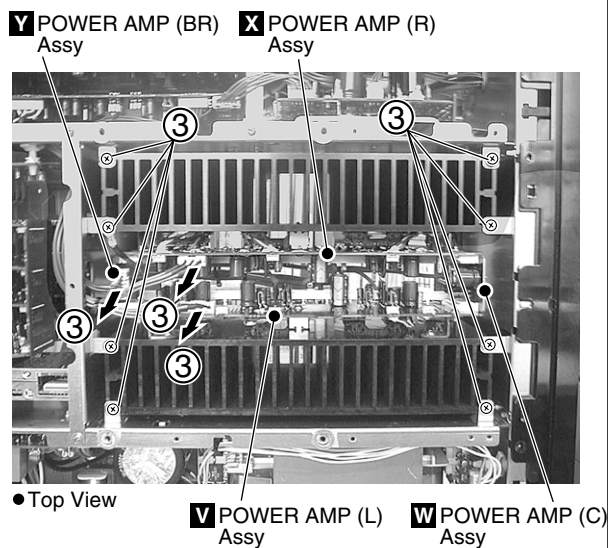
7.1.2 Disassembly

1 Exterior Block

- ① Remove the Top Plate BK (Screws × 13)
- ② Remove the Side Alum BK (Screws × 4)(for VSX-49TXi)

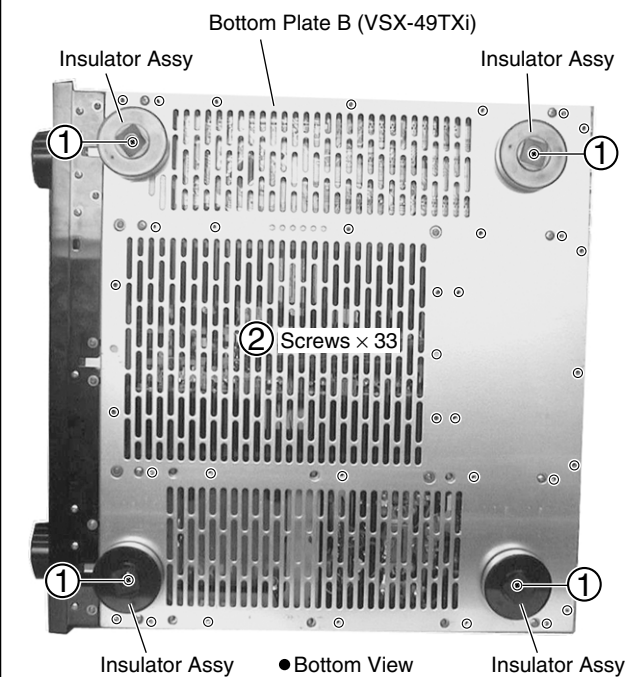


- ③ Remove eight screws and three connectors

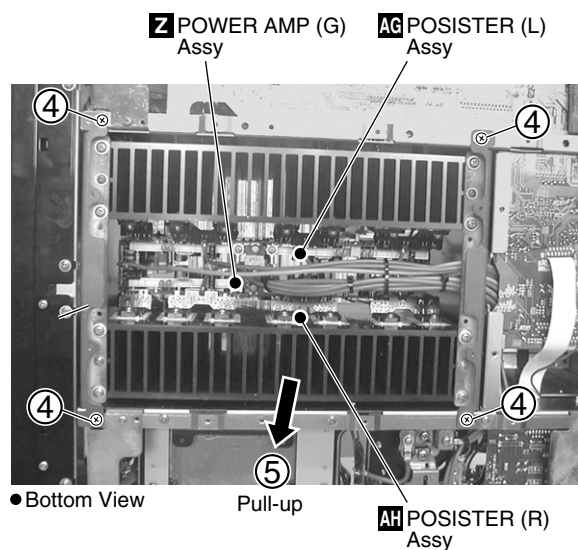


2 Heat Sink Block

- ① Remove the Insulator Assy (Screws × 4)
- ② Remove the Bottom Plate A and Bottom Plate B (Screws × 33)

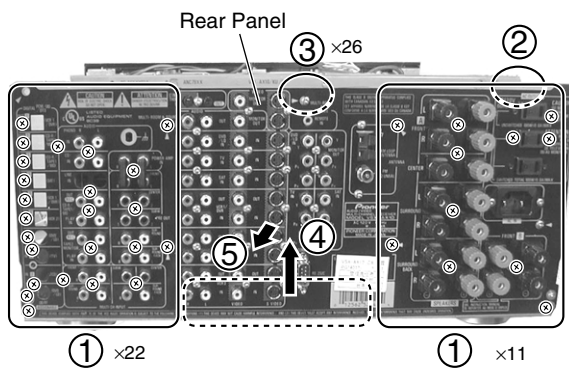


- ④ Remove four screws
- ⑤ Remove the Heat Sink Block

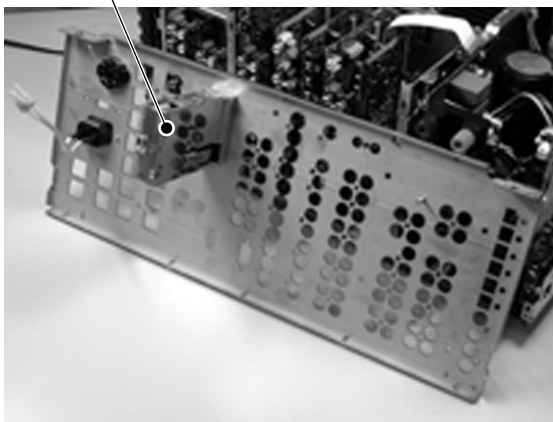


3 Rear Panel Block

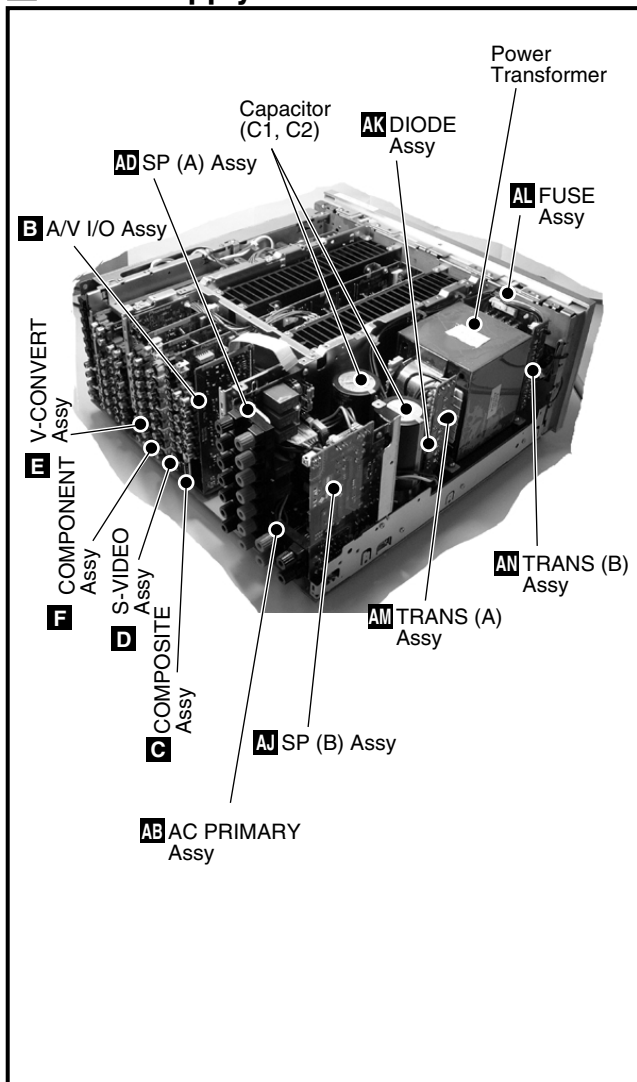
- ① Remove screws (× 33)
- ② Remove the connector from SP (B) Assy
- ③ Remove screws (× 26)
- ④ Remove six connectors from MOTHER Assy
- ⑤ Remove the Rear Panel Block



A FM/AM TUNER Module

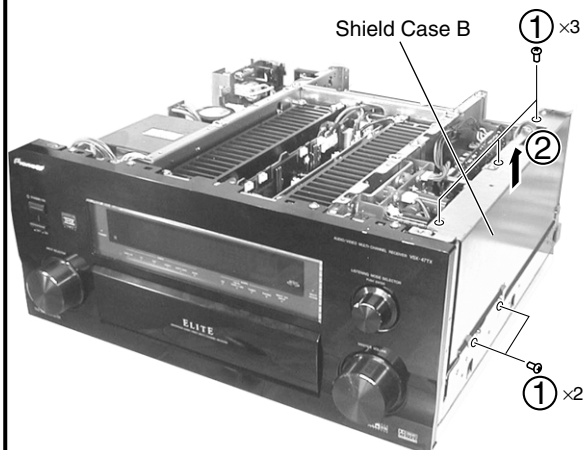


4 Power Supply Block

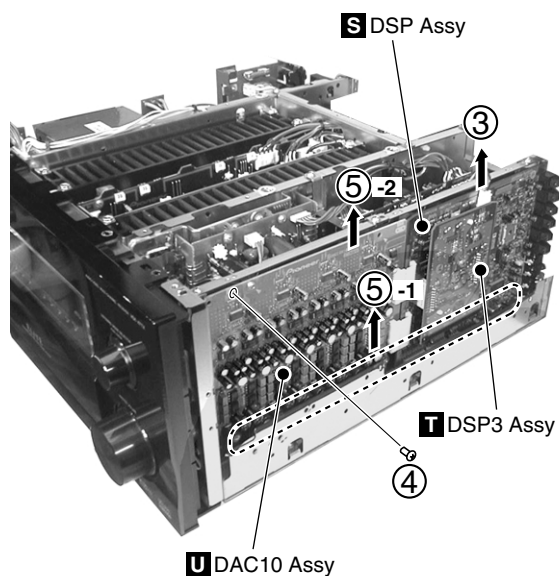


5 DSP and DAC Block

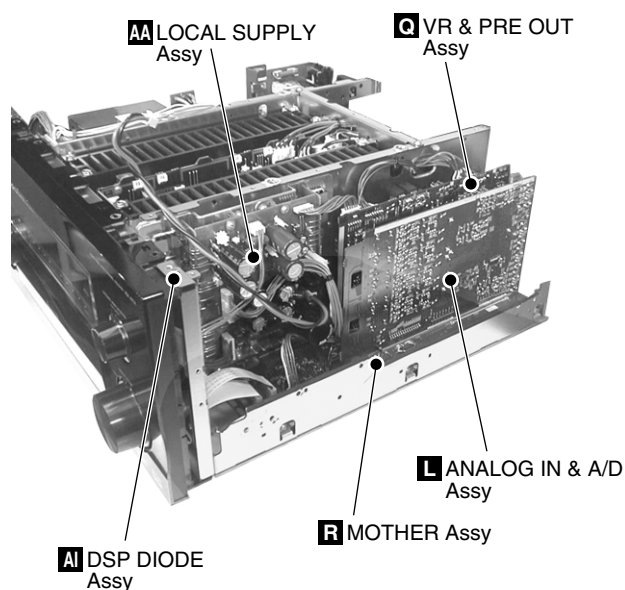
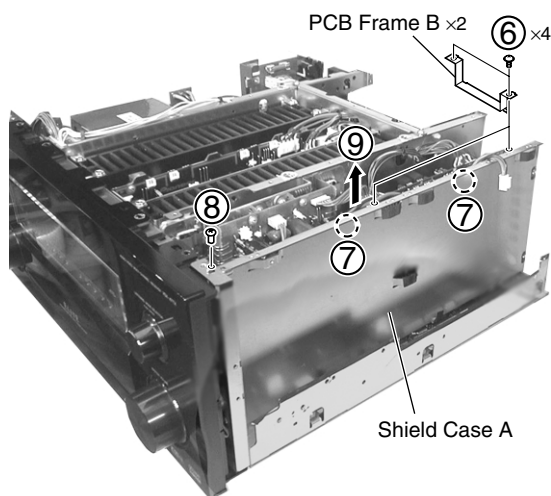
- ① Remove five screws
- ② Remove the Shield Case B



- ③ Remove the connector
- ④ Remove the screw
- ⑤ Remove DAC10 Assy and DSP Assy (Connectors × 5)

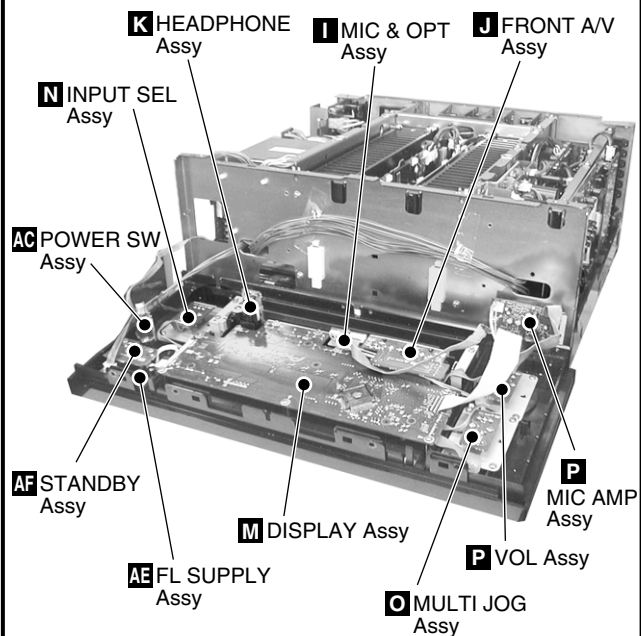
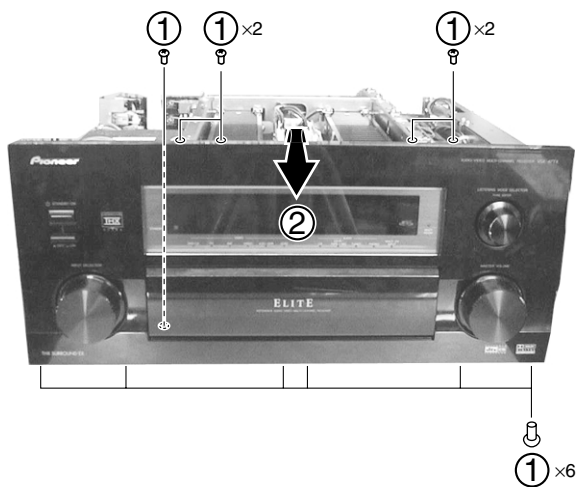


- ⑥ Remove two PCB Frame B (Screws × 4)
- ⑦ Remove two Wire Clip
- ⑧ Remove the screw
- ⑨ Remove the Shield Case A



6 Front Panel Block

- ① Remove screws (× 11)
- ② Remove the Front Panel Block



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.

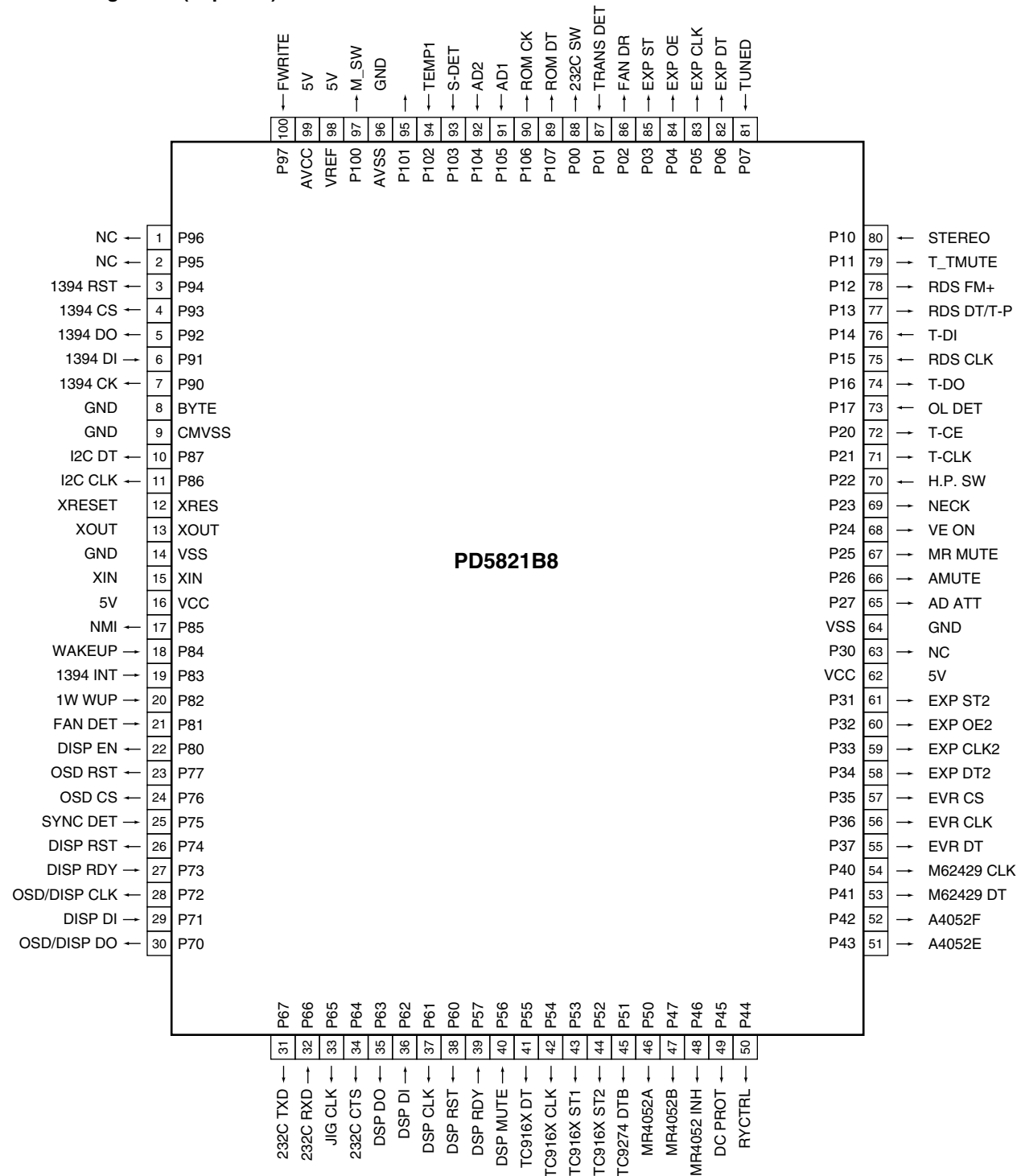
- **List of IC**

PD5821B8, PD5686B, M30620SAFP, BU4094BCFV

- **PD5821B8 (MOTHER ASSY : IC5801)**

- **Main Microcomputer**

- **Pin Assignment (Top view)**



• Pin Function

No.	Pin Name	I/O	Pin Function	Active
1	–	O	NC "L" fixed.	
2	–	O	NC "L" fixed.	
3	1394 RST	O	Standby for 1394 (Not used) "L" fixed.	
4	1394 CS	O	Standby for 1394 (Not used) "L" fixed.	
5	1394 DO	O	Standby for 1394 (Not used) "L" fixed.	
6	1394 DI	I	Standby for 1394 (Not used) Standby with the circuit.	
7	1394 CK	O	Standby for 1394 (Not used) "L" fixed.	
8	GND	–	Ground	
9	GND	–	Ground	
10	I2C DT	I/O	Data signal for video converter IC control I2C bus system	
11	I2C CLK	O	Clock signal for video converter IC control I2C bus system	
12	XRESET	–	Reset	
13	XOUT	–	Oscillator	
14	GND	–	Ground	
15	XIN	–	Oscillator	
16	5V	–	5V power supply	
17	NMI	I	Cannot use it as usual input port (100kΩ pullup)	
18	WAKEUP	I	Wakeup	H
19	1394 INT	I	Standby for 1394 (Not used) Standby with the circuit.	
20	1W WUP	I	Wakeup signal at standby (from the display microcomputer) (pulldown)	H
21	FAN DET	I	Fix to "L" with the hardware.	
22	DISP EN	O	Communication enabling signal to the display microcomputer	H
23	OSD RST	O	OSD-IC reset signal L: reset, H: release reset	
24	OSD CS	O	OSD-IC chip select signal	H
25	SYNC DET	I	Internal/external sync detection (Switch the internal/external sync of OSD-IC.)	L: EXT
26	DISP RST	O	Display microcomputer reset signal L: reset, H: release reset (pulldown)	
27	DISP RDY	I	Communication enabling signal from the display microcomputer	H
28	OSD/DISP CLK	O	Communication clock signal with the OSD-IC/display microcomputer	
29	DISP DI	I	Communication data in signal with the display microcomputer (N ch open drain: pullup)	
30	OSD/DISP DO	O	Communication data out signal with the OSD-IC/display microcomputer (N ch open drain: pullup)	
31	232C TXD	O	For 232C rewriting (data output)	
32	232C RXD	I	For 232C rewriting (data input)	
33	CLK	O	Not used	
34	232C CTS	O	For 232C rewriting (communication enabling)	
35	DSP DO	O	Communication data out signal with the DSP microcomputer	
36	DSP DI	I	Communication data in signal with the DSP microcomputer	
37	DSP CLK	O	Communication clock signal with the DSP microcomputer	
38	DSP RST	O	DSP microcomputer reset signal L: reset, H: release reset	
39	DSP RDY	I	Communication enabling signal from the DSP microcomputer	H
40	DSP MUTE	I	Mute request signal from the DSP microcomputer H: Mute request	H
41	TC916X DT	O	Function SW control data	
42	TC916X CLK	O	Function SW control clock	
43	TC916X ST1	O	Main audio switching control strobe of TC9162 and TC9163. Multi audio switching control strobe of TC9164	
44	TC9163 STX	O	Multi/2ch signal switch	
45	TC9274 STB	O	DIRECT/DSP switching control strobe	
46	MR4052A	O	Switching control signal 1 of multi room audio system	
47	MR4052B	O	Switching control signal 2 of multi room audio system	
48	MR4052INH	O	Switching control signal 3 of multi room audio system H: output OFF	
49	DC PROT	I	DC detection H: detection	H
50	RYCTRL	O	SP relay ON/OFF	H

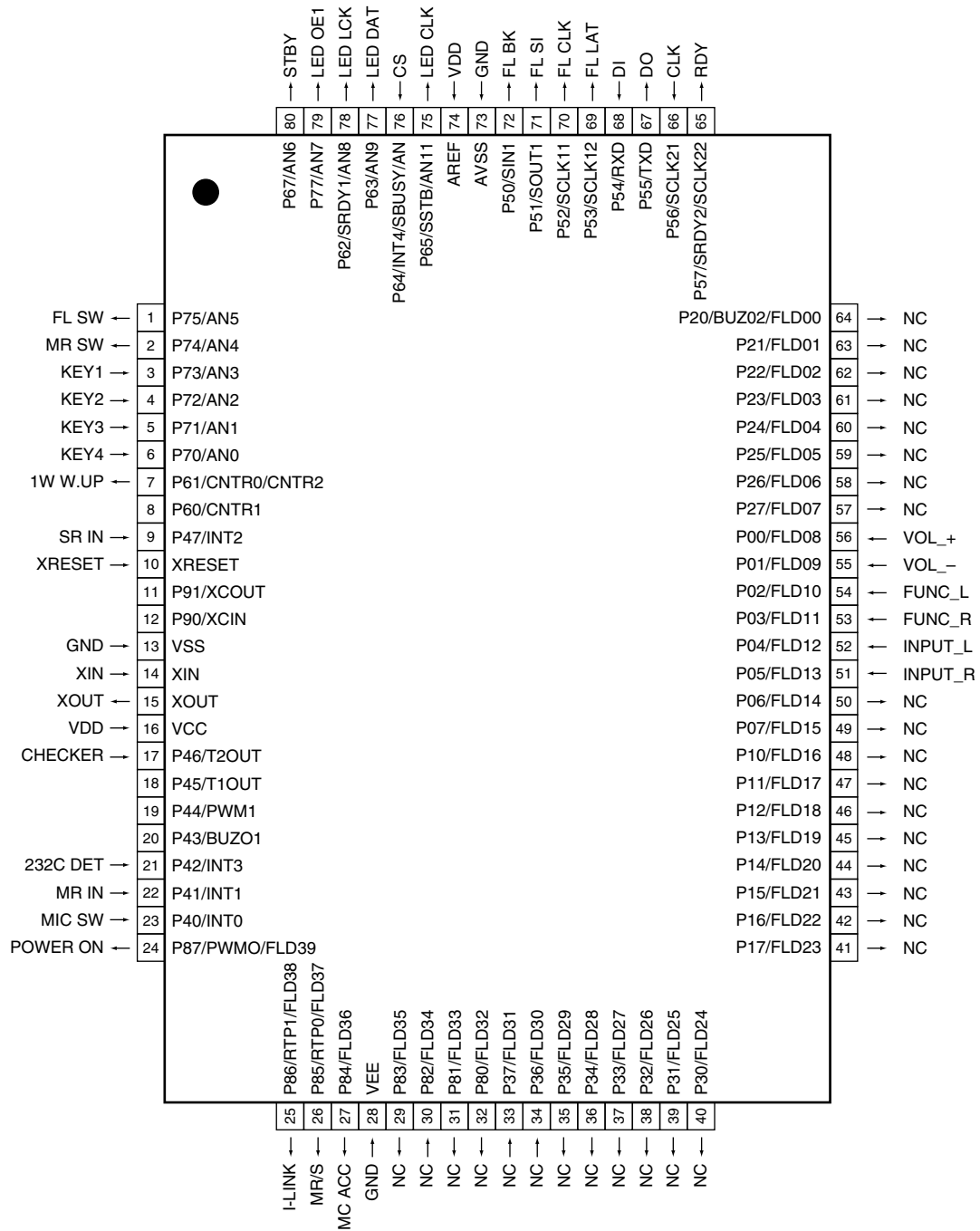
• Pin Function

No.	Pin Name	I/O	Pin Function	Active
51	A4052E	O	Output switching control signal 1 of surround back ch	
52	A4052F	O	Output switching control signal 2 of surround back ch	
53	M62429 DT	O	Data signal for multi room volume IC control	
54	M62429 CLK	O	Clock signal for multi room volume IC control	
55	EVR DT	O	Data signal for erelectronic volume	
56	EVR CLK	O	Clock signal for erelectronic volume	
57	EVR CS	O	Chip select signal for erelectronic volume	
58	EXP DT2	O	Data signal for expansion IC control	
59	EXP CLK2	O	Clock signal for expansion IC control	
60	EXP OE2	O	Output enable signal for expansion IC control	
61	EXP ST2	O	Chip clock signal for expansion IC control	
62	5V	–	5V power supply	
63	NC	O	NC "L" fixed.	
64	GND	–	Ground	
65	AD ATT	O	Attenuator	H
66	AMUTE	O	System mute L: Mute ON	L
67	MRMUTE	O	Multi room mute L: Mute ON	L
68	VE ON	O	Video system power supply switch At Power ON of video system: L	L
69	NECK	O	4/6Ω switch 4Ω: H, 6Ω: L, Initial value: 6Ω	
70	H.P. SW	I	Headphone detection H: Detection	H
71	TUNER CLK	O	Clock signal of tuner control	
72	TUNER CE	O	Chip select signal of tuner control	
73	OL DET	I	Amp. overload detection H: Detection	H
74	TUNER DO	O	Data output signal of tuner control	
75	RDS CLK	O	"L" fixed	
76	TUNER DI	I	Data input signal of tuner control (pullup)	
77	T-POWER	O	Power ON/OFF of tuner module	H
78	NC	O	NC	
79	T-TMUTE	O	Tuner mute	H
80	STEREO	I	L: STEREO (pullup)	L
81	TUNED	I	L: TUNED (pullup)	L
82	EXP DT	O	Data signal of expansion IC control	
83	EXP CLK	O	Clock signal of expansion IC control	
84	EXP OE	O	Output enable signal of expansion IC control	
85	EXP ST	O	Chip clock signal of expansion IC control	
86	FAN DR	O	"L" fixed	
87	TRANS DET	I	"H" fixed by hardware	
88	232CSW	I/O	232C switch L: Main unit, H: DSP microcomputer	
89	ROM DT	I/O	EEPROM control data signal	
90	ROM CK	O	EEPROM control clock signal	
91	SIMUKE1	I	Destination read 1	
92	SIMUKE2	I	Destination read 2	
93	S-DET	I	Sync detection H: S signal present "H" for sync detection	H
94	TEMP1	I	Temperature detection H: Protection function ON	H
95	NC	O	"L" fixed	
96	AVSS	–	Connect to VSS	
97	MIC-SW	O	5-3V conversion IC control H: MIC AMP ON	H
98	VREF	–	Connect to VCC	
99	AVCC	–	Connect to VCC	
100	FWRITE	I	Forced rewriting mode detection (H: Rewriting mode)	H

■ PD5686B (DISPLAY ASSY : IC3001)

• Display Microcomputer

● Pin Assignment (Top view)



• Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	FL SW	O	FL power supply ON/OFF	41	NC		
2	MR SW	O	MR PIONEER / OTHER	42	NC		
3	KEY1			43	NC		
4	KEY2			44	NC		
5	KEY3	I	KEY AD input	45	NC		
6	KEY4			46	NC	O/L	Non connection
7	1W W.UP	O	1W correspondence main wakeup	47	NC		
8	NC	O/L		48	NC		
9	SR IN	I	Remote control input of main room	49	NC		
10	RESET	–	Reset	50	NC		
11	NC			51	NC		
12	NC	O/L	Non connection	52	INPUT_R	I	Input SEL L
13	GND	–	Ground	53	INPUT_L	I	Input SEL R
14	XIN	–	Oscillator	54	FUNC_R	I	Multi JOG R
15	XOUT	–	Oscillator	55	FUNC_L	I	Multi JOG L
16	VDD	–	Power supply	56	VOL_–	I	VOL_–
17	CHECKER	I	Checker mode detection	57	VOL_+	I	VOL_+
18	NC			58	NC		
19	NC	O/L	Non connection	59	NC		
20	NC			60	NC		
21	232C DET	I	232C detection	61	NC	O/L	Non connection
22	MR IN	I	Remote control input of sub room	62	NC		
23	MIC SW	I	MIC detection	63	NC		
24	POWER ON	O	Power ON LED	64	NC		
25	I-LINK	O	I-LINK LED	65	RDY	O	Main communication RDY
26	MR/S	O	MR/S LED	66	CLK	I	Main communication CLK
27	MC ACC	O	Sound field	67	DO	O	Main communication data out
28	GND	–	Ground	68	DI	I	Main communication data in
29	NC			69	FL_LAT	O	FL DRV LAT
30	NC			70	FL_CLK	O	FL DRV CLK
31	NC			71	FL_SI	O	FL DRV SI
32	NC			72	FL_BK	O	FL DRV BK
33	NC			73	GND	–	Ground
34	NC			74	VDD	–	Power supply
35	NC	O/L	Non connection	75	LED_CLK	O	LED DRV CLK
36	NC			76	CS	O	Main communication CS
37	NC			77	LED_DAT	O	LED DRV DATA
38	NC			78	LED_LCK	O	LED DRV LCK
39	NC			79	LED_OE1	O	LED DRV OE
40	NC			80	STBY	O	STBY LED

■ M30620SAFP (DSP ASSY : IC701)

• DSP Microcomputer

• Pin Function

No.	Pin Name	I/O	Pin Function
1	DSP2MOSI	O	2nd DSP communication data output
2	DSP2SCK	O	2nd DSP communication clock output
3	DSP2SSI	O	2nd DSP communication strobe
4	DSP2RST	O	2nd DSP reset
5	HDO	O	Data output of microcomputer communication to main microcomputer
6	HDI	I	Data input of microcomputer communication from main microcomputer
7	HCLK	I	Clock input of microcomputer communication from main microcomputer
8	BYTE	I	Vcc (bus width 8 bit)
9	CNVSS	I	Vss (Use with memory expansion mode)
10	MODEL	I	Upper/lower model distinction input
11	FWRITE	I	FLASH rewrite control input
12	RESET	I	Reset input from main microcomputer
13	XOUT	O	Connect a ceramic resonator (7.7MHz)
14	VSS	–	Vss
15	XIN	I	Connect a ceramic resonator (7.7MHz)
16	VCC	–	Vcc
17	NMI	I	Vcc
18	96DTS	I	DTS 96kHz detection input
19	UNLK	I	UNLOCK signal input
20	DATA	I	DIR various factor data
21	DLCK	I	Demodulator UNLOCK
22	EXOE	O	OE output of expansion IC
23	S DATA	O	Data output of expansion IC
24	S CLOCK	O	Clock output of expansion IC
25	STB	O	Strobe output of expansion IC
26	DSP1RST	O	1st DSP reset
27	9624	O	DSP IC mute output (at DTS 96kHz)
28	DACMCLK	O	DAC/D.F. clock output
29	DSCMDI	I	DAC data input
30	DACMDO	O	DAC/D.F. data output
31	DSP1REQ	O	1st DSP communication request
32	DSP1RDWR	O	1st DSP READ/WRITE switch
33	DSP1BUSY	I	1st DSP BUSY communication wait
34	DSP1ACK	I	1st DSP communication completion check
35	CDTO	O	DIR serial communication data output / TxD (rewrite)
36	CDTI	I	DIR serial communication data input / RxD (rewrite)
37	CCLK	O	DIR serial communication output
38	CSN	O	DIR serial communication chip select / RTS (rewrite)
39	XRDY	I	Vcc
40	ALE	O	NC
41	XHOLD	I	Vcc
42	XHLDA	O	NC
43	BCLK	O	NC
44	XOE	O	Flash memory I/F read enable
45	XBHE	O	NC
46	XWE	O	Flash memory I/F write enable
47	MD	O	Gain amp data output
48	MC	O	Gain amp clock output
49	STB	O	Gain amp strobe output
50	XCE	O	Flash ROM CE control

• Pin Function

No.	Pin Name	I/O	Pin Function
51	A19	O	NC
52	A18	O	Address output of flash memory communication
53	A17		
54	A16		
55	A15		
56	A14		
57	A13		
58	A12		
59	A11		
60	A10		
61	A9		
62	Vcc	–	Vcc
63	A8	O	Address output of flash memory communication
64	Vss	–	Vss
65	A7	O	Address output of flash memory communication
66	A6		
67	A5		
68	A4		
69	A3		
70	A2		
71	A1		
72	A0		
73	XRST2	O	ADC reset output
74	DSPMUTE	O	Mute (Notify to the main microcomputer)
75	HRDY	O	Communication permission to the main microcomputer
76	DSP3REQ	O	3rd DSP communication request
77	DSP3RDWR	O	3rd DSP READ / WRITE switch
78	DSP3BUSY	I	3rd DSP BUSY communication wait
79	DSP3ACK	I	3rd DSP communication complete check
80	DSP3RST	O	3rd DSP reset
81	DQ7	I/O	Data input/output of flash memory communication
82	DQ6		
83	DQ5		
84	DQ4		
85	DQ3		
86	DQ2		
87	DQ1		
88	DQ0		
89	DSPDATA7	I/O	1st/3rd DSP data bit 7 (sharing port)
90	DSPDATA6		1st/3rd DSP data bit 6 (sharing port)
91	DSPDATA5		1st/3rd DSP data bit 5 (sharing port)
92	DSPDATA4		1st/3rd DSP data bit 4 (sharing port)
93	DSPDATA3		1st/3rd DSP data bit 3 (sharing port)
94	DSPDATA2		1st/3rd DSP data bit 2 (sharing port)
95	DSPDATA1		1st/3rd DSP data bit 1 (sharing port)
96	AVss	–	Vss
97	DSPDATA0	I/O	1st/3rd DSP data bit 0 (sharing port)
98	Vref	–	Vcc
99	AVcc	–	Vcc
100	DSP2MISO	I	2nd DSP communication data input

■ BU4094BCFV (DSP ASSY : IC703)

• Expansion IC

• Pin Function

No.	Pin Name	I/O	Pin Function
1	STB	I	Strobe input
2	DATA	I	Serial data input
3	CLOCK	I	Serial clock input
4	DART	O	DAC/D.F. reset
5	DION	O	Digital input power ON/OFF switch
6	HIFS	O	Clock switching output
7	FSDN	O	Fs sampling frequency down output
8	Vss	–	Vss
9	Qs	O	Connect to DATA of expansion IC
10	Qs'	–	Not used
11	DACS4	O	DAC/D.F. latch output 4
12	DACS3	O	DAC/D.F. latch output 3
13	DACS2	O	DAC/D.F. latch output 2
14	DACS1	O	DAC/D.F. latch output 1
15	OE	I	Microcomputer EXOE
16	Vdd	–	Vdd

■ BU4094BCFV (DSP ASSY : IC704)

• Expansion IC

• Pin Function

No.	Pin Name	I/O	Pin Function
1	STB	I	Strobe input
2	DATA	I	Connect to pin 9 of expansion IC1
3	CLOCK	I	Serial clock input
4	XTLO	O	DIR XTLO control
5	NORM	O	Control output for DTS96
6	XADC	O	Analog/Digital switching output
7	STOP	O	Control output for DTS96
8	Vss	–	Vss
9	Qs	–	Connect to DATA of expansion IC3
10	Qs'	–	Not used
11	RFON	O	RF demodulation power ON/OFF switch
12	DSTP	O	Demodulator stop output
13	DRST	O	Demodulator reset output
14	XPDN	O	DIR power down
15	OE	I	Microcomputer EXOE
16	Vdd	–	Vdd

■ BU4094BCFV (DSP ASSY : IC705)

• Expansion IC

● Pin Function

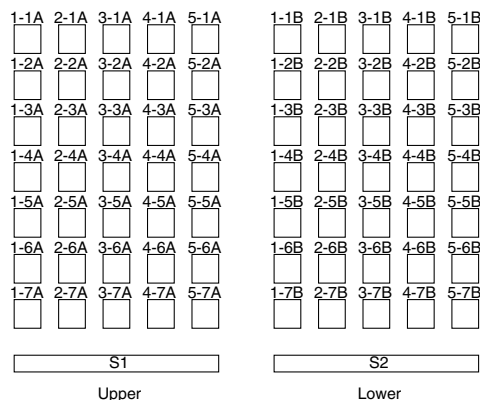
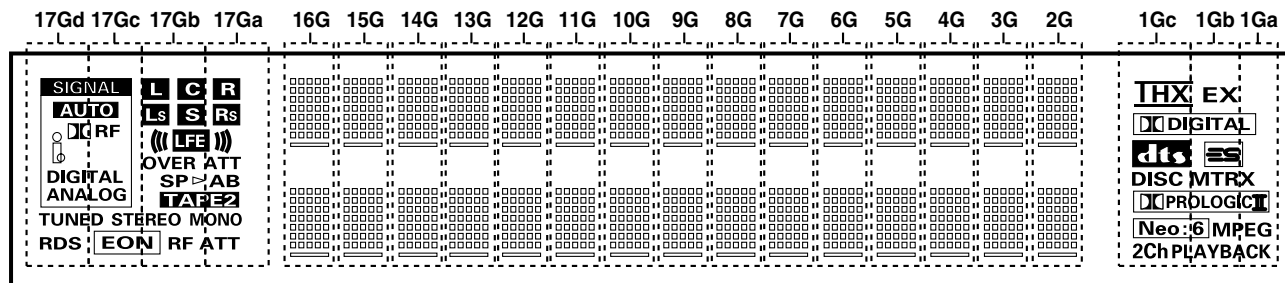
No.	Pin Name	I/O	Pin Function
1	STB	I	Strobe input
2	DATA	I	Connect to pin 9 of expansion IC2
3	CLOCK	I	Serial clock input
4	IEEE	O	Input switching output 1
5	OPT4	O	2nd PLL 256/384 switch
6	DVDA	O	2nd PLL clock switch
7	NC	O	Non connection
8	Vss	–	Vss
9	Qs	–	Connect to DATA of expansion IC4
10	Qs'	–	Not used
11	NC	O	Non connection
12	192K	O	D.F. x4 sampling output
13	NC	O	Non connection
14	NC	O	Non connection
15	OE	I	Microcomputer EXOE
16	Vdd	–	Vdd

7.2.2 DISPLAY

■ AAV7081 (DISPLAY ASSY : V3001)

• FL Indicator Tube

● Grid Assignment



● Anode Connection

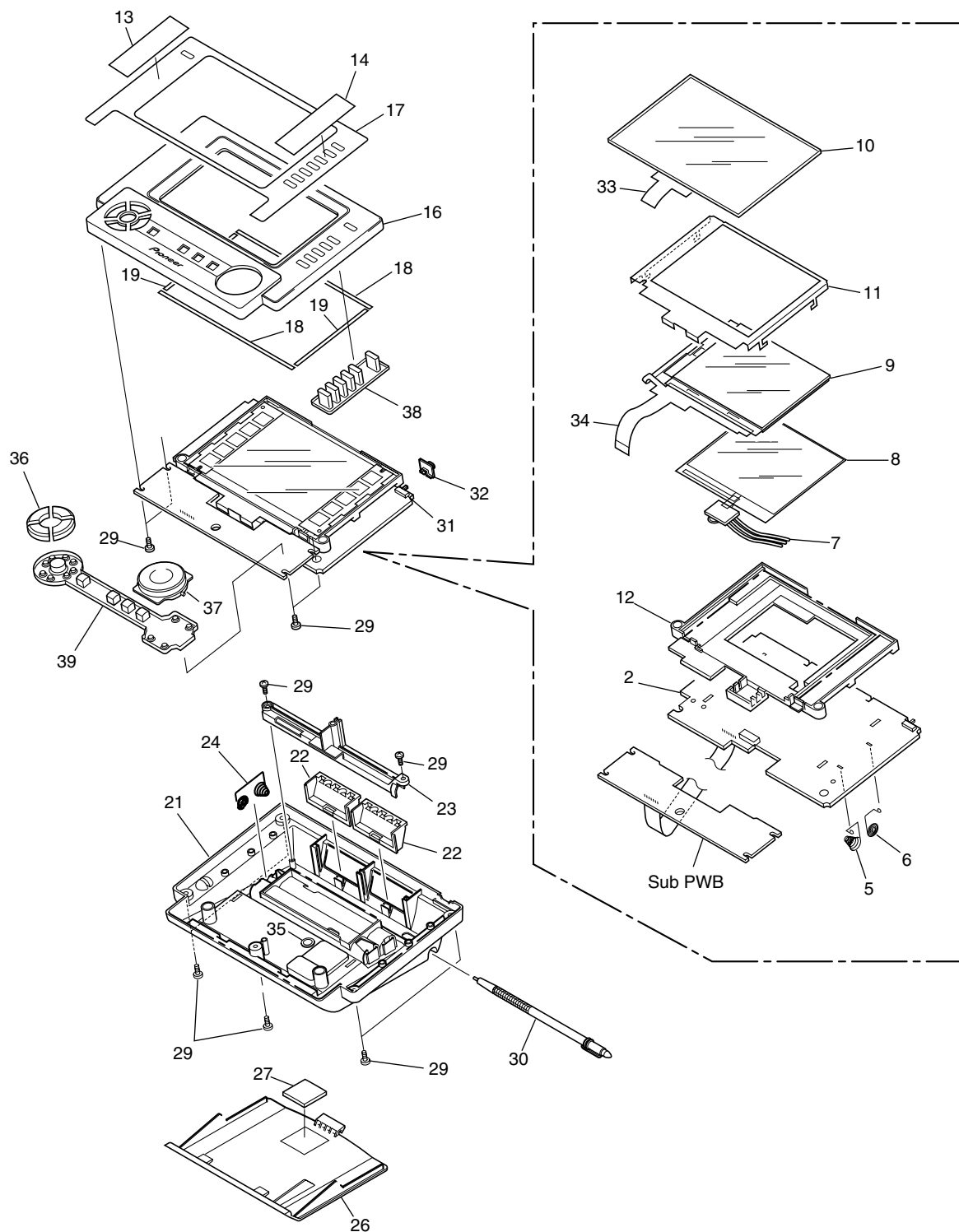
	17Gd to 17Ga	16G to 2G	1Gc to 1Ga		17Gd to 17Ga	16G to 2G	1Gc to 1Ga
P1	L	1-1A	—	P37	—	1-1B	THX
P2	C	2-1A	—	P38	—	2-1B	EX
P3	R	3-1A	—	P39	—	3-1B	DIGITAL
P4	Ls	4-1A	—	P40	—	4-1B	dt
P5	S	5-1A	—	P41	—	5-1B	ES
P6	Rs	1-2A	—	P42	—	1-2B	DISC
P7	LFE	2-2A	—	P43	—	2-2B	MTRX
P8	(())	3-2A	—	P44	—	3-2B	PROLOGIC
P9	SIGNAL 	4-2A	—	P45	—	4-2B	Neo:6
P10	AUTO	5-2A	—	P46	—	5-2B	MPEG
P11	RF	1-3A	—	P47	—	1-3B	2ChPLAYBACK
P12		2-3A	—	P48	—	2-3B	—
P13	DIGITAL	3-3A	—	P49	—	3-3B	—
P14	ANALOG	4-3A	—	P50	—	4-3B	—
P15	OVER	5-3A	—	P51	—	5-3B	—
P16	ATT	1-4A	—	P52	—	1-4B	—
P17	SP	2-4A	—	P53	—	2-4B	—
P18	>	3-4A	—	P54	—	3-4B	—
P19	A	4-4A	—	P55	—	4-4B	—
P20	B	5-4A	—	P56	—	5-4B	—
P21	TAPE2	1-5A	—	P57	—	1-5B	—
P22	TUNED	2-5A	—	P58	—	2-5B	—
P23	STEREO	3-5A	—	P59	—	3-5B	—
P24	MONO	4-5A	—	P60	—	4-5B	—
P25	RDS	5-5A	—	P61	—	5-5B	—
P26	EON	1-6A	—	P62	—	1-6B	—
P27	 (EON)	2-6A	—	P63	—	2-6B	—
P28	RF ATT	3-6A	—	P64	—	3-6B	—
P29	—	4-6A	—	P65	—	4-6B	—
P30	—	5-6A	—	P66	—	5-6B	—
P31	—	1-7A	—	P67	—	1-7B	—
P32	—	2-7A	—	P68	—	2-7B	—
P33	—	3-7A	—	P69	—	3-7B	—
P34	—	4-7A	—	P70	—	4-7B	—
P35	—	5-7A	—	P71	—	5-7B	—
P36	—	S1	—	P72	—	S2	—

7.3 REMOTE CONTROL UNIT

7.3.1 EXPLODED VIEWS and PARTS LIST

■ AXD7295 (Remote control unit)

- NOTES:
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Screws adjacent to ∇ mark on the product are used for disassembly.

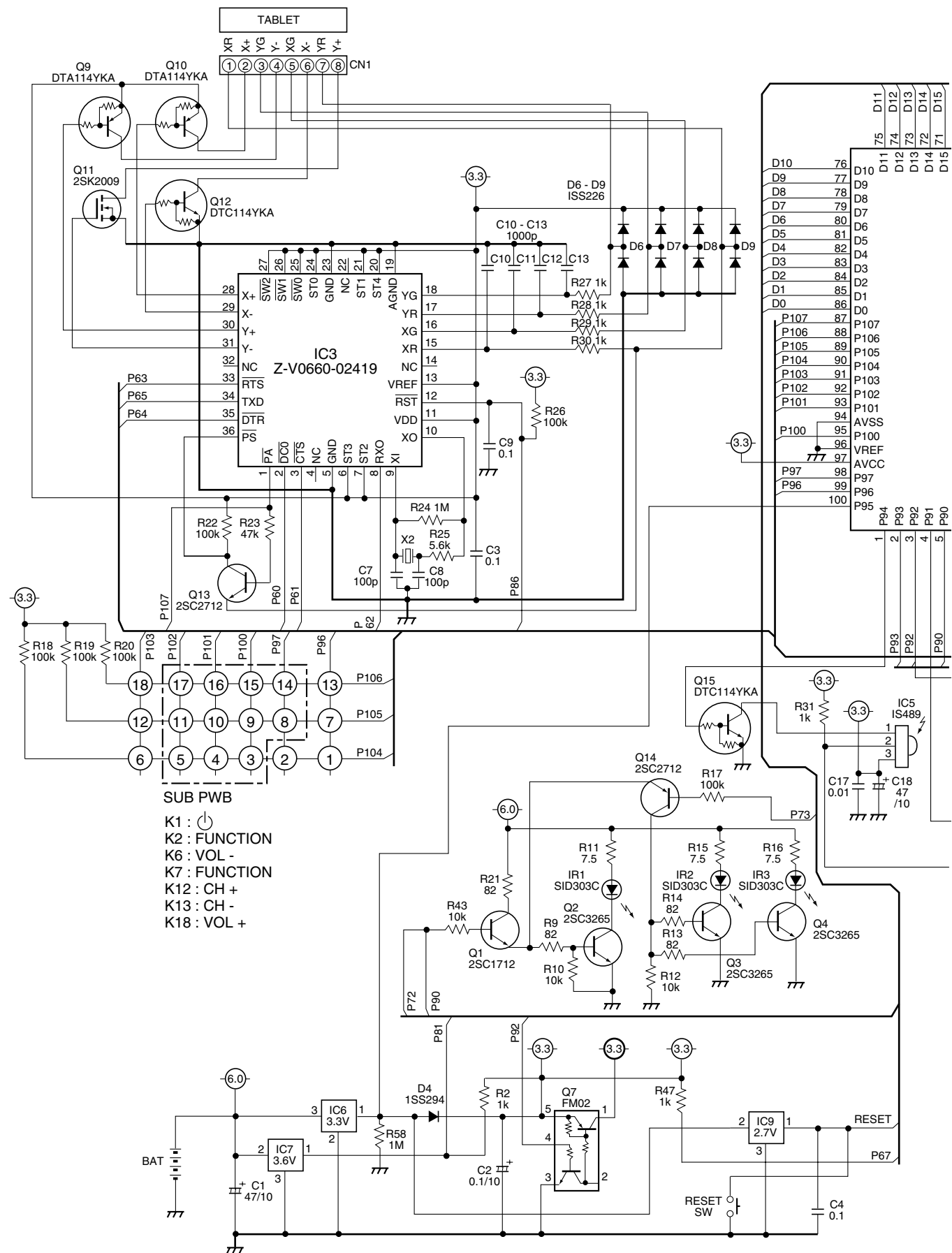


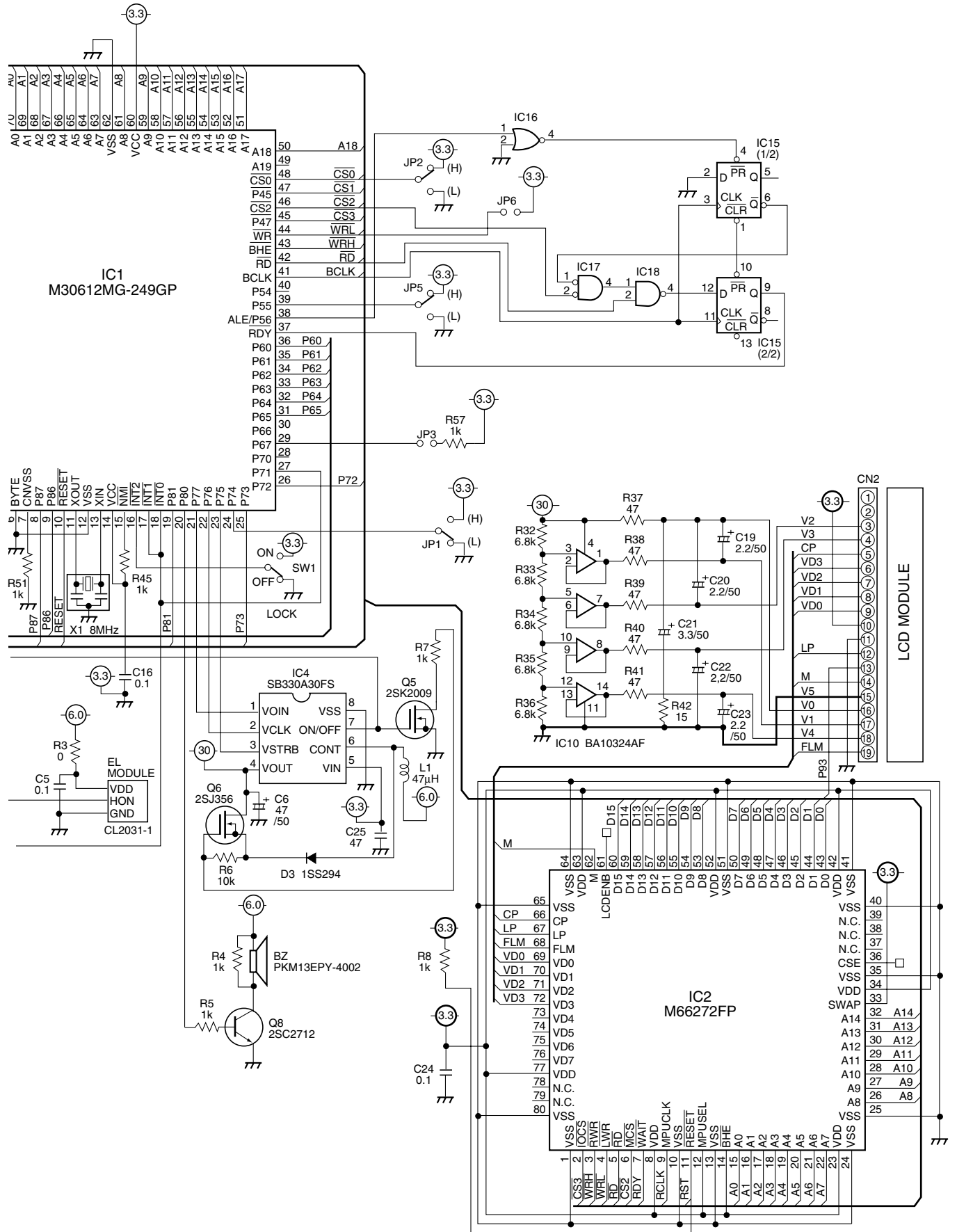
• parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	•••••	
2	PCB Assy	AZC7299
3	•••••	
4	•••••	
5	Terminal A	411RRC15801R
6	Terminal B	411RRC15901R
7	Jumper Cable	E-AA1446-001
8	EL Module	AZC7294
9	LCD Module	AZC7295
10	Touch Panel	NTX01005701R
11	Frame	501RRC01901R
12	LCD Holder	AZN7787
13	Seal A	AZA7415
14	Seal B	AZA7416
15	•••••	
16	Case A	AZN7783
17	Name Plate	AZA7406
18	Cushion A	701RRC04801R
19	Cushion B	701RRC04901R
20	•••••	
21	Case B	AZN7784
22	Filter	AZA7343
23	Pen Holder	AZN7786
24	Terminal	413RRC11201R
25	•••••	
26	Battery Cover	AZN7785
27	Cushion C	701RRC03501R
28	•••••	
29	Screw	AZB7144
30	Touch Pen	AZA7350
31	Slide Switch	JSB1220-0111
32	Slide Knob	AZA7347
33	FPC Connector	CFP5519-0101
34	FPC Connector	E-CP0535-008
35	MT Switch	JPM1030-0801
36	Key Top A	AZA7345
37	Key Top B	AZA7346
38	Rubber Sheet A	AZA7410
39	Rubber Sheet B	AZA7411

7.3.2 Remote SCH

SCHEMATIC DIAGRAM

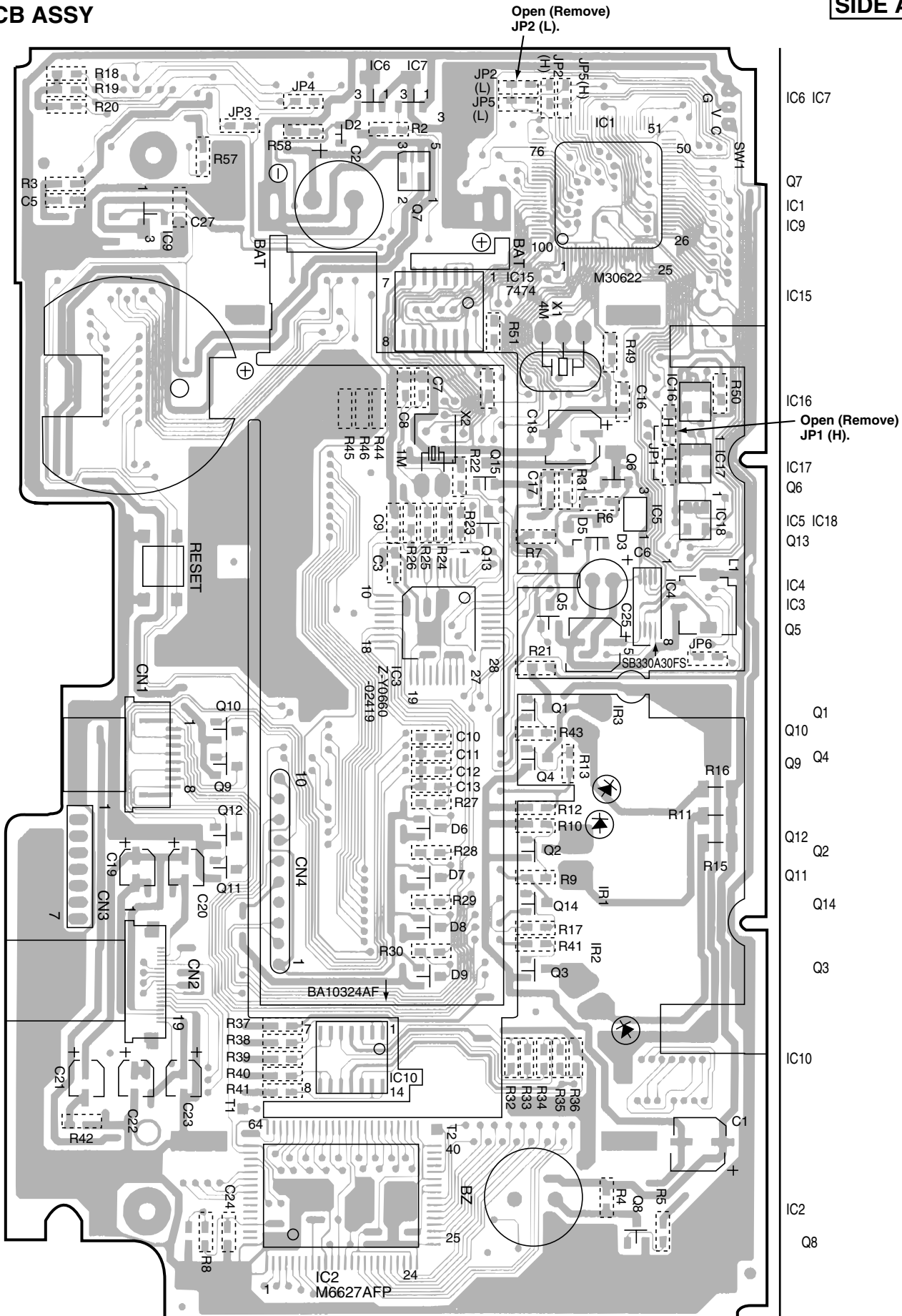




7.3.3 Remote PCB Diagram

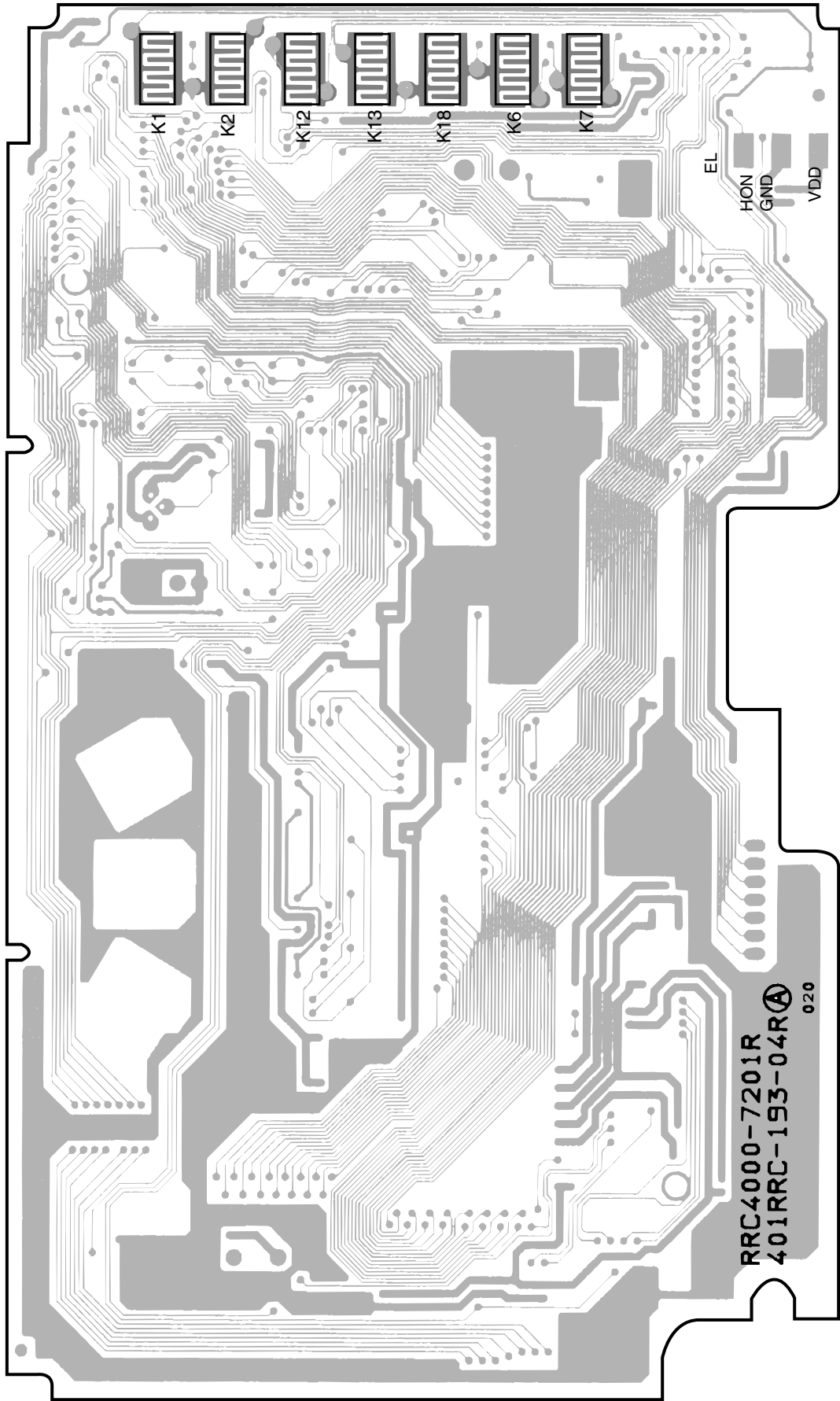
PCB ASSY

SIDE A



Remote PCB DIAGRAM

SIDE B



7.3.4 Remote 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 x 10^1 $\rightarrow$ 561 RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ J

47k Ω $\rightarrow$ 47 x 10^3 $\rightarrow$ 473 RD1/4PU $\boxed{4}\boxed{7}\boxed{3}$ J

0.5 Ω $\rightarrow$ R50 RN2H $\boxed{R}\boxed{5}\boxed{0}$ K

1 Ω $\rightarrow$ 1R0 RS1P $\boxed{1}\boxed{R}\boxed{0}$ K

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

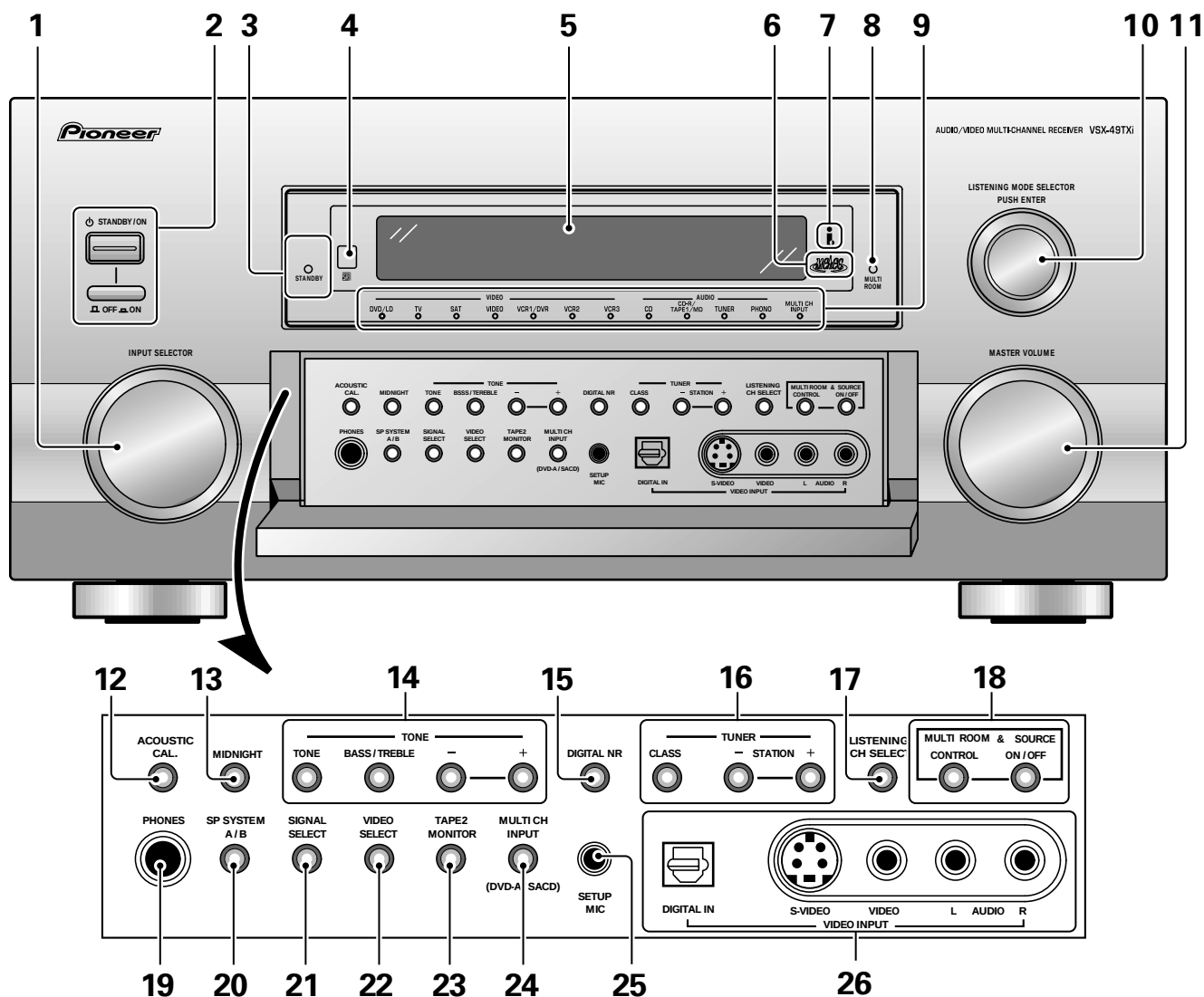
5.62k Ω $\rightarrow$ 562 x 10^1 $\rightarrow$ 5621 RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

Mark No.	Description	Part No.
IC1		M30622MC-4JOFA
IC2		NJU6469LFC1-05
IC3		S-818A33AMC-BGN
IC4		74HC08
IC6		TC7S04F
Q1,Q11		RN2414
Q2,Q3,Q5,Q7		2SC2712
Q4		2SA1162
Q6		2SC3265
Q9,Q10		DTD113ZK
Q12		S-80826ANNP-EDP
Q8		S-80836ANNP-EDO
Q10		2SA1037
D5		SID303C-01
D1		1SS294
D3		SPS-503C
D2,D4,D30		RLS-73
D6		1SS181
D8-D25		BR1111C
D26-D29		FA1101F-430
C3		0.1F/6.3v
C4		1000mF/6.3v
C6, C9		47mF/10v
C14		10mF/10v
C2,C5,C11,C17-C19		0.1mF/25v
C7,C12		1mF/25v
C8		470pF/25v
R17		15W 1/4w
Other Resistors		RS1/16SJ
XI Ceramic Resona(8MHz)		CST8.00MTW
LCD		T557007

8. PANEL FACILITIES

8.1 PANEL FACILITIES

Front section



1 INPUT SELECTOR dial

Turn to select a source component. (You can also use to select a source in the MULTI-ROOM & SOURCE mode.) The input indicators show the current component.

2 STANDBY/ON button—power ON/OFF button

Press to switch the receiver ON or into STANDBY mode or to switch OFF.

3 STANDBY indicator

Lights when the receiver is in STANDBY mode. (Please note that this receiver consumes a small amount of power [0.65 W] in the standby mode.)

4 Remote sensor

Receives the signals from the remote control.

5 Display

6 MCACC indicator

Lights when the ACOUSTIC CAL EQ is on. (After the Auto Surround Sound Setup has been completed the ACOUSTIC CAL EQ is set on and this display will light.)

7 i.LINK indicator

Lights when an i.LINK-Audio-equipped component is selected.

8 MULTI-ROOM indicator

Shows whether the multi-room function is active or not.

9 INPUT indicators

Shows which source component is selected. The MULTI CH INPUT indicator lights when a component connected to MULTI CH INPUT is selected. When an unassigned i.LINK-equipped component is selected, no INPUT indicator will light.

10 LISTENING MODE SELECTOR dial

Turn and push to select a listening mode.

Displays & Controls

11 MASTER VOLUME dial

Adjusts the overall receiver volume.

12 ACOUSTIC CAL. button

Use to switch on and off the Acoustic Calibration EQ.

13 MIDNIGHT button

Use to switch the receiver into MIDNIGHT mode.

14 TONE control buttons

TONE button

This button switches between TONE ON and TONE BYPASS, which bypasses the tone circuitry.

BASS/TREBLE button

Use to select whether the bass or treble will be adjusted..

(-/+) buttons

Use to adjust the frequency level.

15 DIGITAL NR button

Switches the DIGITAL NR on or off.

16 TUNER CONTROL buttons

CLASS button – Press repeatedly to switch the preset station classes.

-/+ button – Use to choose programmed radio stations.

17 LISTENING CH SELECT button

Use this button to select the number of channels used for playback (5.1, 7.1, or AUTO).

18 MULTI-ROOM & SOURCE buttons

Press to use the multi room feature (requires an optional PIONEER Multi-Room Remote Sensor Unit MR-100 or another IR receiver).

CONTROL button: Used together with the INPUT SELECTOR to select the function or use with the MASTER VOLUME to select the volume of the MULTI ROOM system.

ON/OFF button: Use to switch Multi-room function on or off.

19 PHONES jack

Connect headphones for private listening (no sound will be heard through the speakers).

20 SP SYSTEM A/B button

Use to select the speaker system. A is the primary setting. The button cycles through the speaker systems as follows: A⇒B⇒A&B⇒off. Different conditions apply when bi-amping the speakers.

21 SIGNAL SELECT button

Use to select the type of signal being input into the receiver. Press SIGNAL SELECT repeatedly to select one of the following (Depends on settings in INPUT ASSIGN available inputs will change.):

ANALOG – To select an analog signal.

i – To select an i.LINK signal.

DIGITAL – To select an optical or coaxial digital signal.

RF – To select an RF signal.

AUTO – This is the default setting. The receiver selects a signal based on availability, in the following order of priority: **i**, **RF**, DIGITAL, ANALOG.

22 VIDEO SELECT button

Switches the receiver between the various types of video input.

23 TAPE 2 MONITOR button

Selects the tape deck (MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/ outputs. Allows monitoring of a recording as it's being made.

24 MULTI CH INPUT button

Selects the component (for example, a DVD-A player) you have hooked up to the MULTI CH INPUT terminals.

25 SETUP MIC jack

Plug in the setup mic here. This is very important for setting up your system to get proper surround sound.

26 Front VIDEO INPUT jacks

DIGITAL IN : digital input for connecting a game console, portable DVD player, video camera (etc.), that has an optical digital connection.

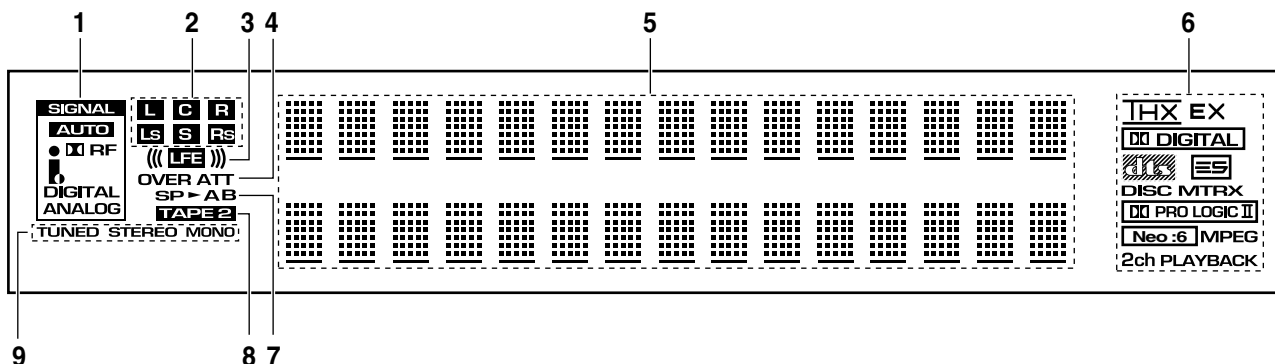
S VIDEO : Video input for connecting a video camera (etc.), that has an S video out.

RCA VIDEO / AUDIO (L/R) : Video/audio input for connecting a video camera, etc. that has standard RCA video/audio outputs.

Displays & Controls

Display

All the display information is explained and/or referenced here.



1 SIGNAL SELECT indicators

Light to indicate the input signal you selected.

ANALOG : Lights when an analog signal is selected.

i : Lights when the receiver is set to select an i.LINK component.

DIGITAL : Lights when a digital signal is selected.

RF : Lights when an RF signal is selected.

AUTO : Lights when the receiver is set to select the input signal automatically.

2 Program Format indicators

For Dolby Digital or DTS sources : These indicators change according to which channels are active in the source. When all three **LS** (left surround), **S** (surround) and **RS** (right surround) light at the same time it means a source with a 6.1ch playback flag is being used.

L – Left front channel.

C – Center channel.

R – Right front channel.

LS – Left surround channel.

S – Surround channel (mono).

RS – Right surround channel.

LFE – Low frequency effects channel.

3 ((())) – Lights when LFE signal is input.

4 Analog level indicators

OVER – This lights if the signal is in danger of distorting for analog source signals. Press INPUT ATT on the front panel to lower the signal level.

ATT – Lights when INPUT ATT is used to reduce the level of the analog source signal.

5 Character display

Shows current mode, status, etc.

6 Digital format indicators

DIGITAL : Lights when a Dolby Digital signal is detected.

DTS : Lights when a DTS signal is detected.

MPEG : Lights when an MPEG signal is detected.

THX : Lights when the HOME THX mode is selected.

EX : Lights during Surround EX matrix processing.

ES : Lights when a decoding DTS ES audio.

DISC : Lights during DTS ES discrete processing.

MTRX : Lights during DTS ES matrix processing.

PRO LOGIC II : Lights during Dolby Pro Logic II processing.

Neo:6 : Lights during Neo: 6 processing.

2ch PLAYBACK : Lights during two-channel playback.

7 Speaker indicators

Light to indicate the current speaker system, A and/or B.

8 TAPE 2 indicator

Lights when the TAPE 2 monitor is on.

9 TUNER indicators

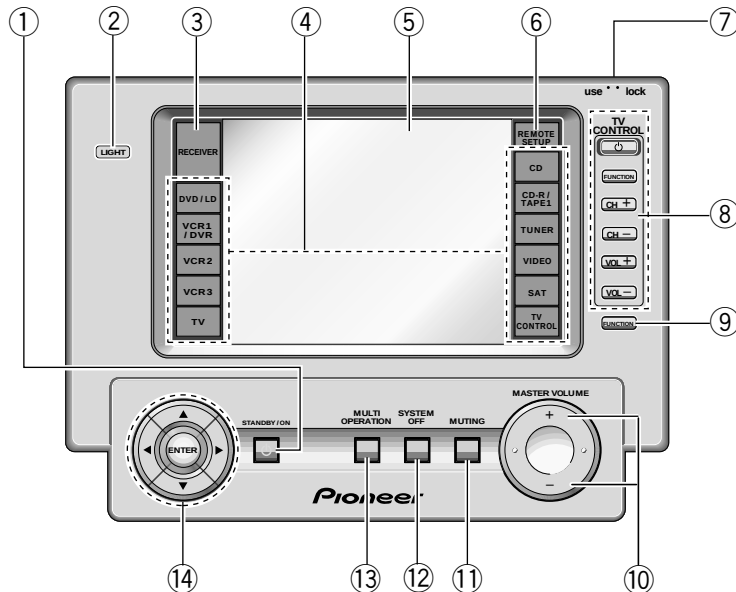
MONO : Lights when the tuner is set to receive FM broadcasts and when selected MPX mode.

STEREO : Lights when a FM stereo broadcast is received in the auto stereo mode.

TUNED : Lights when a broadcast is received.

Remote Control

These pages describe the buttons on the remote control. Since the screen on this LCD remote control changes when you select a different function, explanations of buttons for controlling other components/functions can be found in the sections for those components/functions.



To turn on the remote control touch it anywhere on the screen

① **STANDBY/ON button**

Press to turn power of the receiver on or to STANDBY (off).

② **LIGHT button**

Use to turn on and off the backlight on the remote control screen.

③ **RECEIVER button**

Press to switch the remote control into receiver mode or to get receiver screens.

④ **Function buttons**

These buttons are the basic controls that switch the mode of the receiver and the remote control, which allows you to control your other components.

⑤ **Remote control screen**

⑥ **REMOTE SETUP button**

Use to customize the remote control functions and the remote control itself. (see "Setting Up Remote Control of Other Components")

⑦ **LOCK switch**

Use to lock the remote control so it doesn't turn on by accident. For normal use keep it set in USE.

⑧ **TV CONTROL buttons**

The following buttons are used to control the TV only and can be used once they are preset to control your TV.

STANDBY/ON : Press to turn the power of the TV on/off.

INPUT : Press to select the input source for the TV.

CH +/- : Use these buttons to change the channel of the TV.

VOL +/- : Press to control the volume of the TV.

⑨ **INPUT button**

Press to select a source. The button will cycle through all the possible sources.

⑩ **MASTER VOLUME button**

Use to raise or lower the volume of the receiver.

⑪ **MUTING button**

Press to mute or restore the volume.

⑫ **SYSTEM OFF button**

This button turns off components in two ways. First, when pressed it will turn off all PIONEER components. Secondly, any component that has programmed into the SYSTEM OFF settings will be turned off.

For example : If you programmed power off in the SYSTEM OFF settings for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products.

⑬ **MULTI OPERATION button**

Use this button to start the MULTI OPERATION mode. See p.85 & 86 for how to program and use the MULTI OPERATION mode.

⑭ **▲/▼/◀/▶/ENTER buttons**

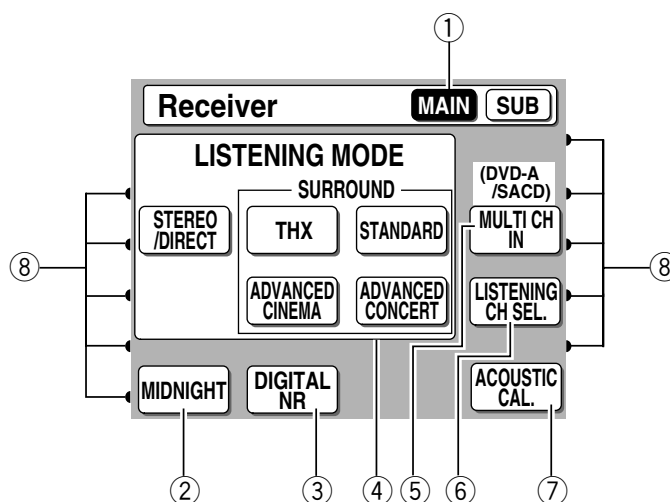
These buttons can be used for a variety of operations. In the SYSTEM SETUP menu, the ▲/▼ buttons can be used to adjust CHANNEL DELAY or CHANNEL LEVEL.

The ▲/▼ buttons, pressed simultaneously, can be used to lock or unlock a setting

These buttons are also used to control the DVD menu for the DVD remote control screen. Also, in TUNER mode they can select station and frequency.

Basic Receiver LCD Screens

Receiver MAIN Screen



① Receiver MAIN button

Press this button to select the MAIN receiver screen (above) when the remote control is on the SUB receiver screen.

② MIDNIGHT button

Switches the MIDNIGHT listening mode on or off (for all modes except THX).

③ DIGITAL NR button

Switches the DIGITAL NR on or off (for all modes except THX).

④ LISTENING MODE buttons

STEREO/DIRECT: Switches the receiver into STEREO mode if it was in a different listening mode or toggles between DIRECT and STEREO mode.

THX: Press to put the receiver into HOME THX listening mode.

STANDARD: Press to put the receiver into STANDARD listening mode.

ADVANCED CINEMA: Press to put the receiver into ADVANCED CINEMA listening mode.

ADVANCED CONCERT: Press to put the receiver into ADVANCED CONCERT listening mode.

⑤ MULTI CH IN button

Use this button to select the component (for example, a DVD-A player) you have hooked up to the MULTI CH INPUT terminals.

⑥ LISTENING CH SEL. button

Use this button to select a listening channel (5.1, 7.1, or AUTO)

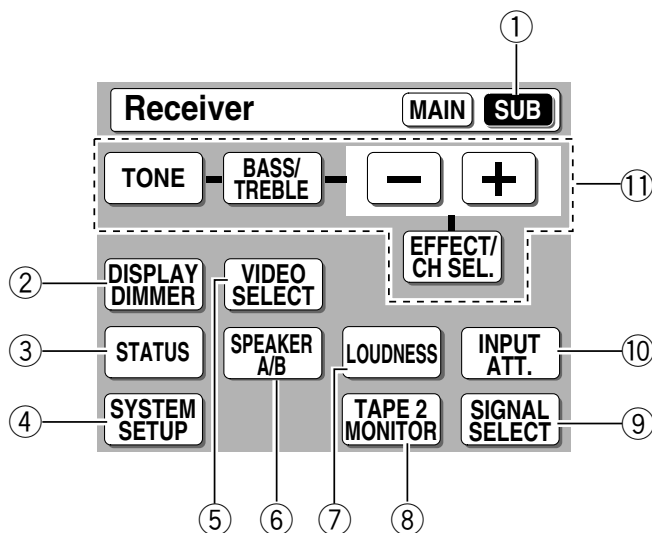
⑦ ACOUSTIC CAL. button

Press to switch on/off the acoustic calibration EQ.

⑧ DIRECT FUNCTION on/off indicator

These dots indicate whether the DIRECT FUNCTION is on or off for the function (DVD/LD, CD, etc.) they point to.

Receiver SUB Screen



① Receiver SUB button

Press this button to select the SUB receiver screen (above) when the remote control is on the main receiver screen.

② DISPLAY DIMMER button

Use to adjust the brightness of the receiver's display.

③ STATUS button

Use to display the present mode of the receiver and other selected settings.

④ SYSTEM SETUP button

Use for all system setups, including the speaker and sound systems. For more information see "Setting up for Surround Sound".

⑤ VIDEO SELECT button

Use to toggle between the different video input possibilities.

⑥ SPEAKER A/B button

Use to select the speaker system. A is the primary setting. The button cycles through the speaker systems as follows: A⇒B⇒A&B⇒off. Different conditions apply when bi-amping the speakers.

⑦ LOUDNESS button

Switches the LOUDNESS mode on or off (for all modes except THX).

⑧ TAPE 2 MONITOR button

Selects the tape deck (or MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/outputs. Allows monitoring of a recording as it's being made.

⑨ SIGNAL SELECT button

Press SIGNAL SELECT repeatedly to select one of the following (Depends on settings in INPUT ASSIGN, available inputs will change.):

ANALOG : To select an analog signal.

i : To select an i.LINK signal.

DIGITAL : To select an optical or coaxial digital signal.

RF : To select an RF signal.

AUTO : This is the default. The receiver selects a signal based on availability, in the following order of priority: **i**, **RF**, **DIGITAL**, **ANALOG**.

⑩ INPUT ATT. button

Use to lower the input level of an analog signal that is too powerful, thus causing the receiver to distort. In this case the overload (OVER) indicator will be flashing furiously.

⑪ TONE control/EFFECT CH SEL. buttons

TONE button

This button has two functions. Firstly, it switches between TONE on and TONE BYPASS, which bypasses the tone circuitry. Secondly, you need to press the button before using the BASS & TREBLE (+/-) buttons.

EFFECT/CH SEL. button

Switches the tone adjust controls between the front, center, surround and surround back speakers. While in Advanced mode, you can also adjust the effect level or SOUND DELAY in 5 ms steps from 0 to 200 ms to match sound with slower video displays.

You can then use the + and - buttons to adjust the sound.