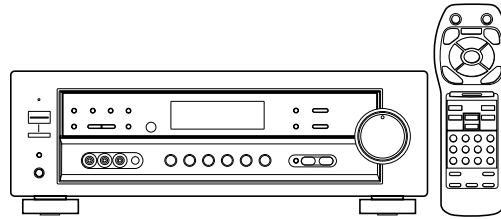


Service Manual

PIONEER®
The Art of Entertainment



The illustration shows the VSX-607RDS.

ORDER NO.
RRV1953

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-607RDS

VSX-407RDS

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

Type	Model		Power Requirement	The voltage can be converted by the following method.
	VSX-607RDS	VSX-407RDS		
HYXKEW	○	○	AC220-230V	AC240V, *
HYXKGR	○	○	AC220-230V	AC240V, *

* : Alter the wiring of the Power-supply block at the primary winding of Power-transformer referring to the "Line Voltage Selection" described in Service Manual.

CONTENTS

1. SAFETY INFORMATION	2	7. GENERAL INFORMATION	36
2. EXPLODED VIEWS AND PARTS LIST	3	7.1 PARTS	36
3. SCHEMATIC DIAGRAM	8	7.1.1 IC	36
4. PCB CONNECTION DIAGRAM	24	7.1.2 DISPLAY	42
5. PCB PARTS LIST	31	7.2 DISASSEMBLY	43
6. ADJUSTMENT	35	7.3 DIAGNOSIS	45
		7.4 BLOCK DIAGRAM	46
		7.5 REMOTE CONTROL UNIT	
		[CU-VSX131 (AXD7169)]	48
		8. PANEL FACILITIES AND SPECIFICATIONS ..	52

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 © **PIONEER ELECTRONIC CORPORATION 1998**

T - IZK MAY 1998 Printed in Japan

1. 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

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5). When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.



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.

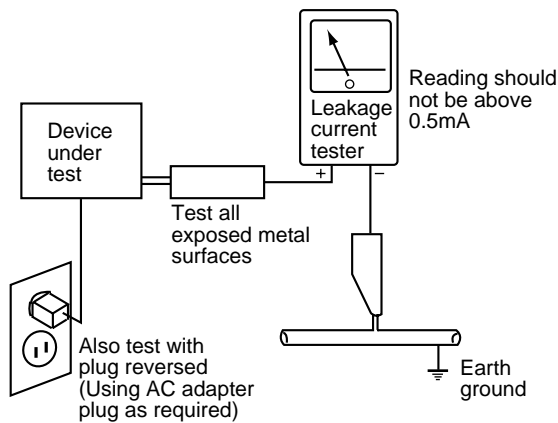
(FOR USA MODEL ONLY)

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.

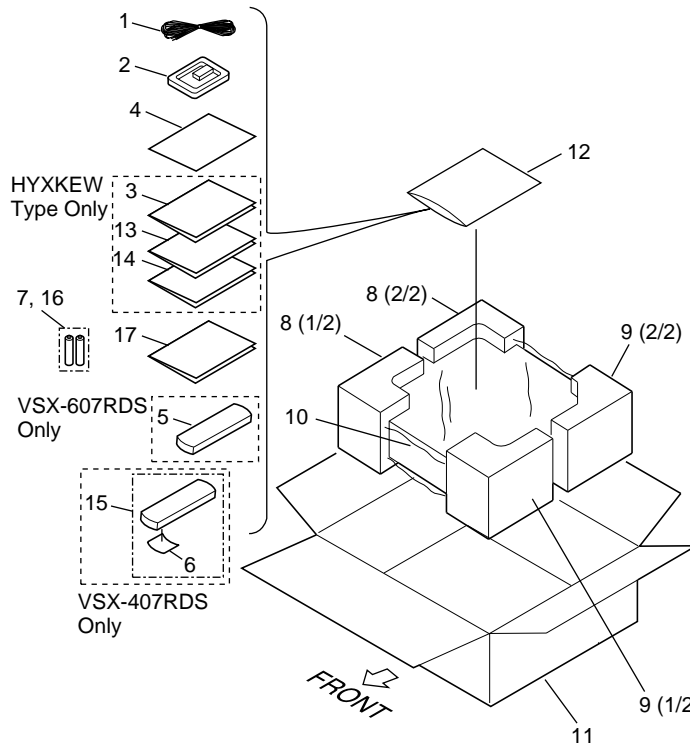
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

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.

2. EXPLODED VIEWS AND PARTS LIST

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

2.1 PACKING



(1) PACKING PARTS LIST

Mark	No.	Description	Part No.
	1	FM Antenna	ADH7005
	2	AM Loop Antenna	ATB7009
	3	Operating Instructions (Italian/Spanish/Portuguese)	See Contrast table (2)
NSP	4	Warranty Card	ARY7010
	5	Remote Control Unit (CU-VSX131)	See Contrast table (2)
NSP	6	Battery Cover	See Contrast table (2)
	7	Alkaline Dry Cell Battery (LR6, AA)	See Contrast table (2)
	8	Left Pad	AHA7203
	9	Right Pad	AHA7204
	10	Packing Sheet	AHG7028
	11	Packing Case	See Contrast table (2)
	12	Polyethylene Bag (0.03x230x340)	Z21-038
	13	Operating Instructions (Dutch/Swedish)	See Contrast table (2)
	14	Operating Instructions (English/French)	See Contrast table (2)
	15	Remote Control Unit (CU-VSX130)	See Contrast table (2)
	16	Dry Cell Battery (R6P, AA)	See Contrast table (2)
NSP	17	Operating Instructions (German)	See Contrast table (2)

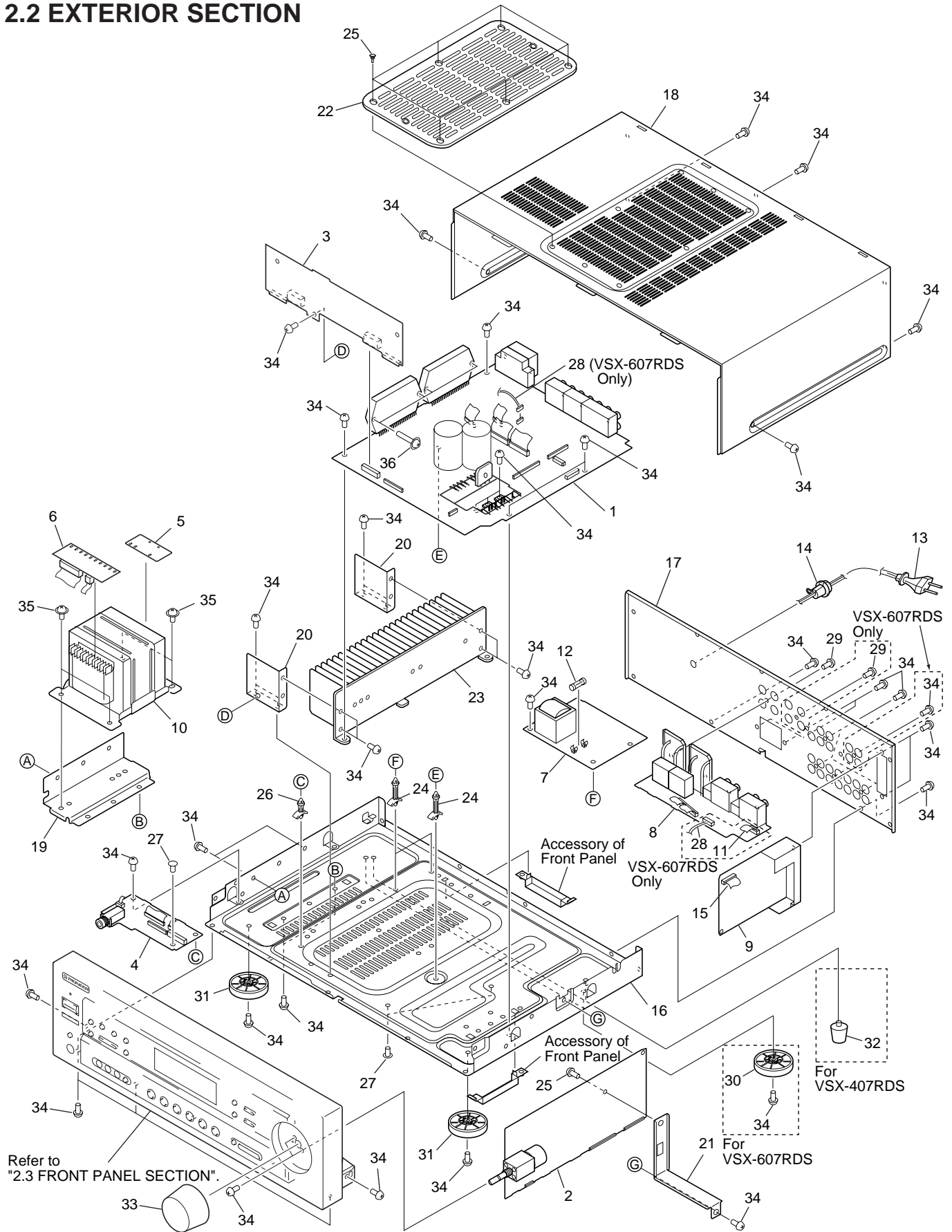
(2) CONTRAST TABLE

VSX-607RDS/HYXKEW, HYXKGR, VSX-407RDS/HYXKEW and HYXKGR are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remarks
			VSX-607RDS		VSX-407RDS		
			HYXKEW	HYXKGR	HYXKEW	HYXKGR	
NSP	3	Operating Instructions (Italian/Spanish/Portuguese)	ARC7191	Not used	ARC7190	Not used	
	5	Remote Control Unit (CU-VSX131)	AXD7169	AXD7169	Not used	Not used	
	6	Battery Cover	Not used	Not used	RZN1156	RZN1156	
	7	Alkaline Dry Cell Battery (LR6, AA)	AEX1007	AEX1007	Not used	Not used	
	11	Packing Case	AHD7587	AHD7587	AHD7586	AHD7586	
NSP	13	Operating Instructions (Dutch/Swedish)	ARC7197	Not used	ARC7196	Not used	
	14	Operating Instructions (English/French)	ARE7157	Not used	ARE7156	Not used	
	15	Remote Control Unit (CU-VSX130)	Not used	Not used	AXD7162	AXD7162	
	16	Dry Cell Battery (R6P, AA)	Not used	Not used	AEX7001	AEX7001	
	17	Operating Instructions (German)	ARC7193	ARC7193	ARC7192	ARC7192	

VSX-607RDS, VSX-407RDS

2.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

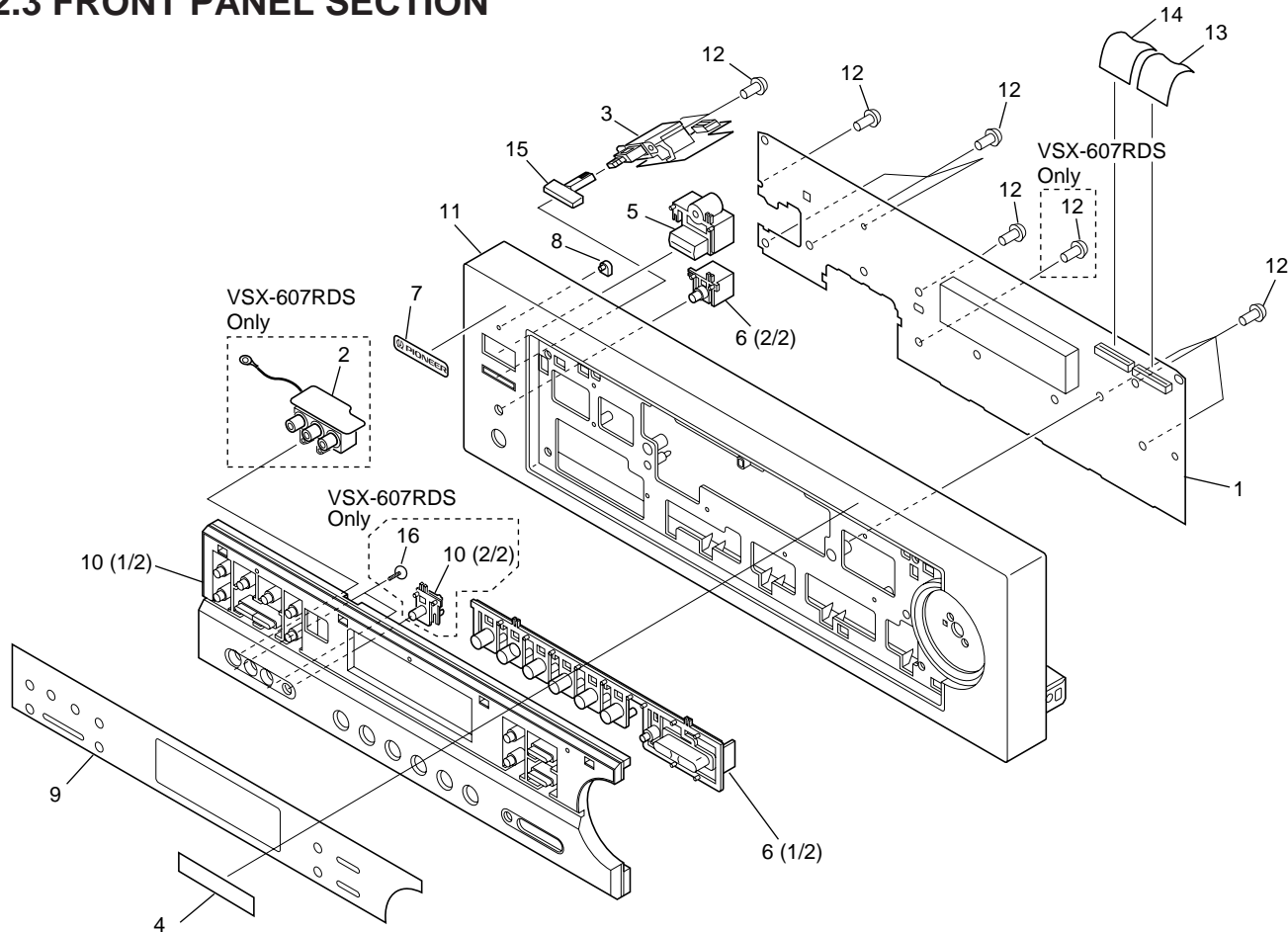
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	MOTHER Assy	See Contrast table (2)		19	T Angle	ANG7178
	2	VOLUME DSP Assy	See Contrast table (2)		20	H Angle	ANG7179
NSP	3	CONNECTION Assy	See Contrast table (2)		21	PCB Angle	ANG7180
NSP	4	HEADPHONE Assy	AWX7086		22	Top Cover	AME7373
NSP	5	TRANS 1 Assy	AWX7090	NSP	23	Heat Sink Y	ANH7083
NSP	6	TRANS 2 Assy	AWX7080		24	PCB Support	AEC7006
	7	PRIMARY Assy	AWX7087		25	Push Rivet	AEC7025
	8	FRONT SPEAKER Assy	See Contrast table (2)		26	PCB Support	AEC7132
	9	FM/AM TUNER Unit	AXX7048		27	Card Spacer	AEC7133
△	10	Power Transformer (T1 : AC220-230V/240V)	ATS7204	NSP	28	5P Shield Cable (J34) (MOTHER CN105, FRONT SPEAKER CN703- FRONT INPUT CN571)	See Contrast table (2)
	11	Flexible Cable (J33) (FRONT SPEAKER CN752-MOTHER CN112)	See Contrast table (2)		29	Screw	ABA1007
△	12	Fuse (FU1 : T2A)	AEK1057		30	Insulator	See Contrast table (2)
△	13	AC Power Cord	ADG7008		31	Insulator	PNW2766
	14	Cord Stopper	CM-22B		32	Foot Assy	See Contrast table (2)
	15	Flexible Cable 13P (J32) (MOTHER CN110-FM/AM TUNER Unit)	ADD7094		33	Round Knob	AAB7082
NSP	16	Under Base	ANA7070		34	Screw	BBZ30P080FZK
	17	Rear Panel	See Contrast table (2)		35	Screw	ABA7044
	18	Bonnet Case	AZN7727		36	Screw	ABA7043

(2) CONTRAST TABLE

VSX-607RDS/HYXKEW, HYXKGR, VSX-407RDS/HYXKEW and HYXKGR are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remarks
			VSX-607RDS		VSX-407RDS		
			HYXKEW	HYXKGR	HYXKEW	HYXKGR	
NSP	1	MOTHER Assy	AWX7078	AWX7078	AWX7077	AWX7077	
	2	VOLUME DSP Assy	AWX7085	AWX7085	AWX7084	AWX7084	
	3	CONNECTION Assy	AWX7165	AWX7165	AWX7079	AWX7079	
	8	FRONT SPEAKER Assy	AWX7089	AWX7089	AWX7088	AWX7088	
	11	Flexible Cable (J33)	ADD7095	ADD7095	Not used	Not used	
NSP	17	Rear Panel	ANC7630	ANC7630	ANC7629	ANC7629	
	28	5P Shield Cable (J34)	ADX7237	ADX7237	Not used	Not used	
	30	Insulator	PNW2766	PNW2766	Not used	Not used	
	32	Foot Assy	Not used	Not used	REC1263	REC1263	

2.3 FRONT PANEL SECTION



(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	FRONT Assy	See Contrast table (2)		11	Front Panel	See Contrast table (2)
NSP	2	FRONT INPUT Assy	See Contrast table (2)		12	Screw	BPZ30P080FMC
NSP	3	POWER SW Assy	AWX7061		13	Flexible Cable 20P (J31) (MOTHER CN109-FRONT CN501)	ADD7093
NSP	4	Getter	See Contrast table (2)		14	Flexible Cable 20P (J35) (MOTHER CN111-FRONT CN502)	ADD7093
	5	Power Button PTK	AAD7457		15	Power Button M	AAD7442
	6	Function Button PTK	AAD7456		16	Screw	See Contrast table (2)
	7	PIONEER Badge	PAM1755				
	8	LED Lens	PNW2019				
	9	Sheet	AAK7580				
	10	Sub Panel	See Contrast table (2)				

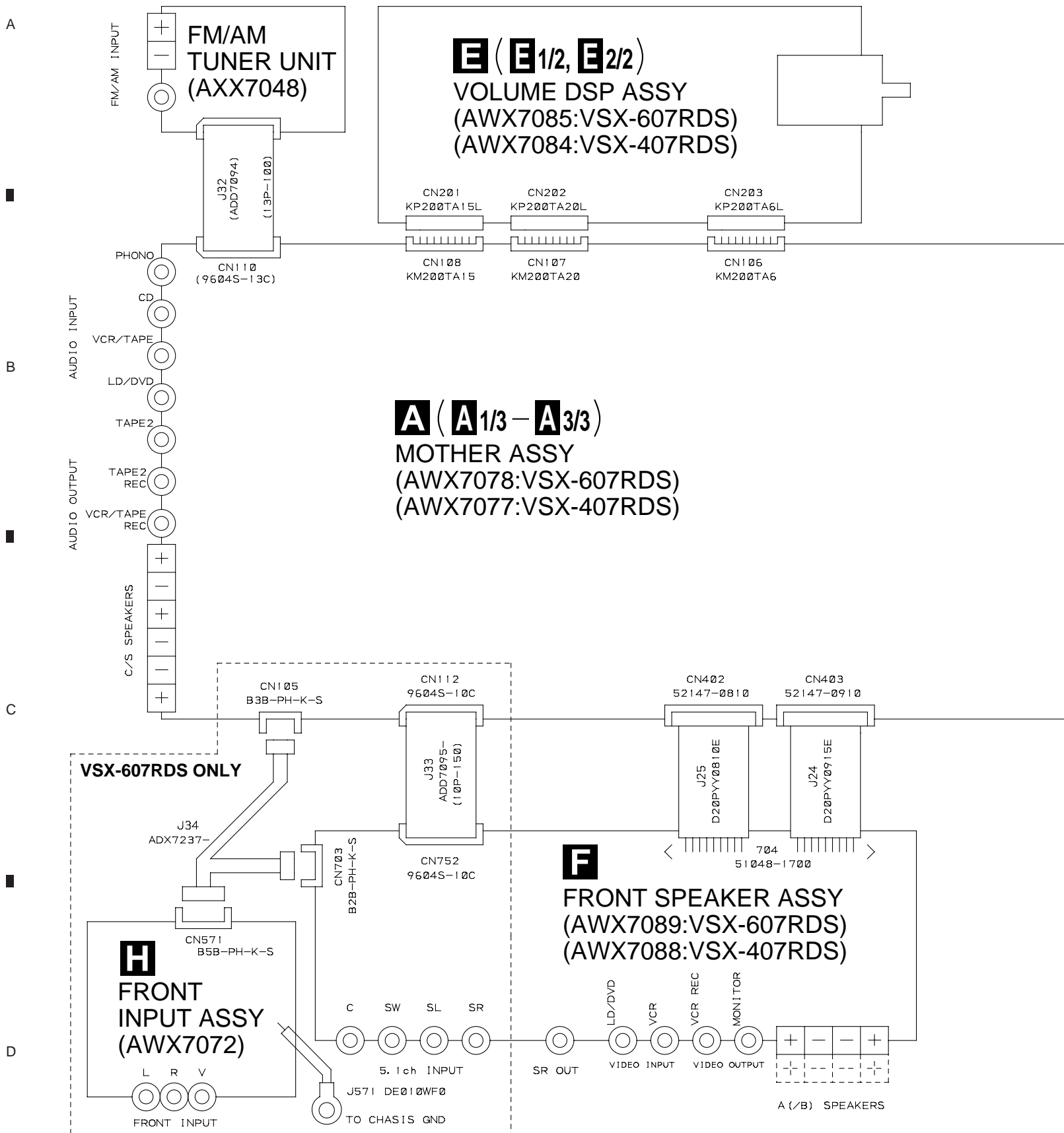
(2) CONTRAST TABLE

VSX-607RDS/HYXKEW, HYXKGR, VSX-407RDS/HYXKEW and HYXKGR are constructed the same except for the following :

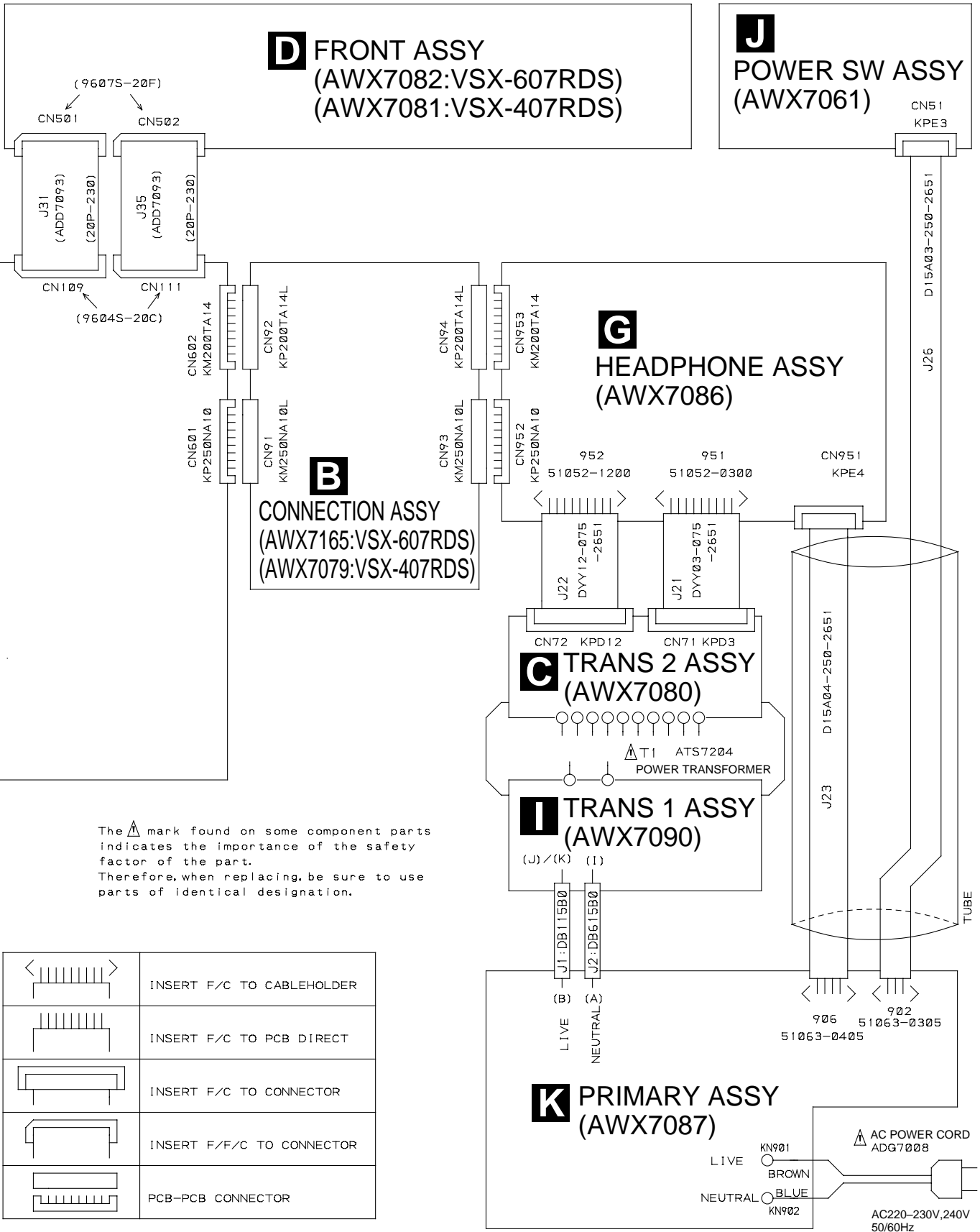
Mark	No.	Symbol and Description	Part No.				Remarks
			VSX-607RDS		VSX-407RDS		
			HYXKEW	HYXKGR	HYXKEW	HYXKGR	
NSP NSP	1	FRONT Assy	AWX7082	AWX7082	AWX7081	AWX7081	
	2	FRONT INPUT Assy	AWX7072	AWX7072	Not used	Not used	
	4	Getter	AAX7644	AAX7644	AAX7643	AAX7643	
	10	Sub Panel	AAP7044	AAP7044	AAP7043	AAP7043	
	11	Front Panel	AMB7497	AMB7497	AMB7496	AMB7496	
	16	Screw	ABA7009	ABA7009	Not used	Not used	

3. SCHEMATIC DIAGRAM

3.1 OVERALL CONNECTION DIAGRAM



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



	INSERT F/C TO CABLEHOLDER
	INSERT F/C TO PCB DIRECT
	INSERT F/C TO CONNECTOR
	INSERT F/F/C TO CONNECTOR
	PCB-PCB CONNECTOR

A

B

C

D

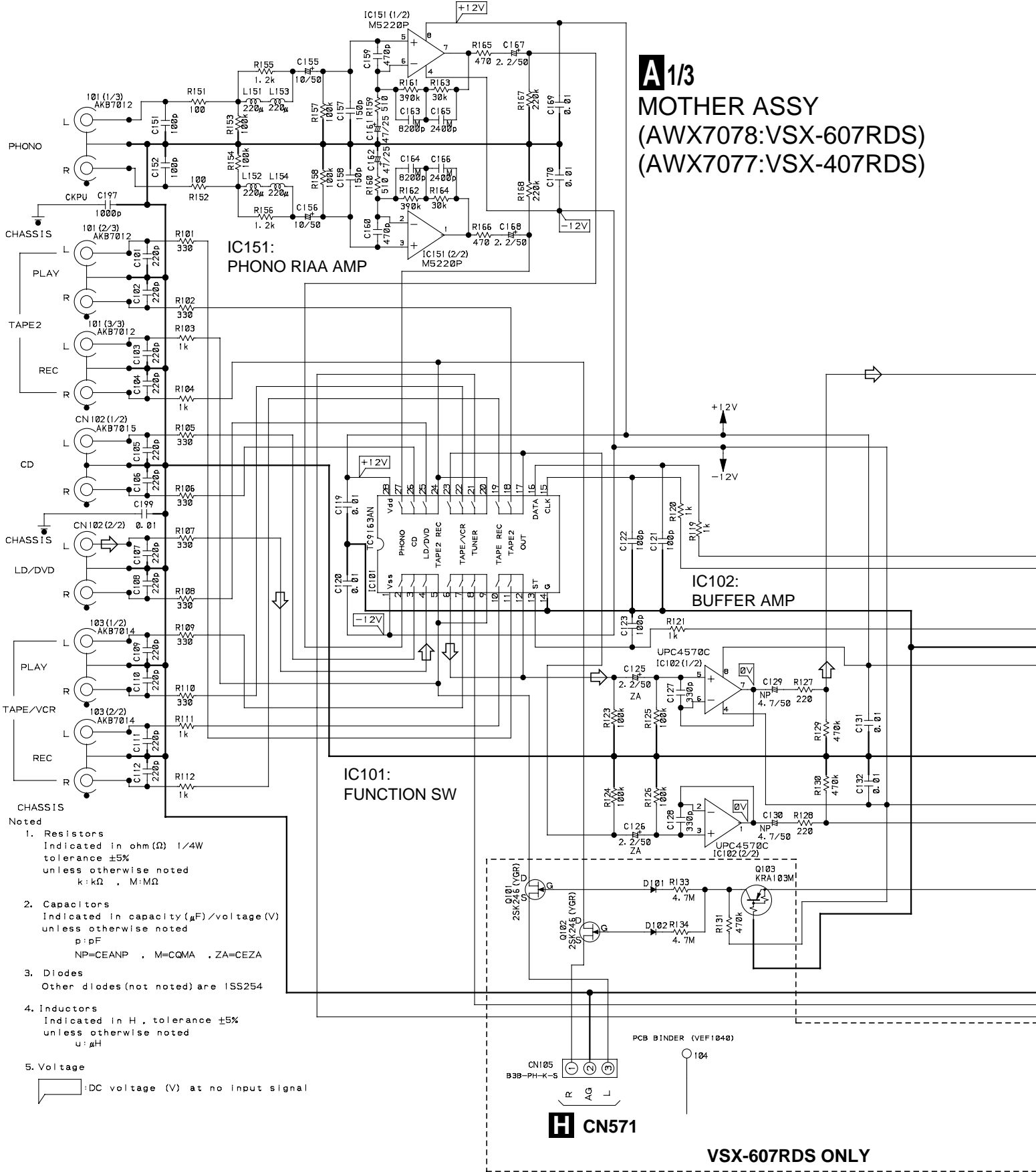
3.2 MOTHER ASSY (1/3)

A

B

C

D

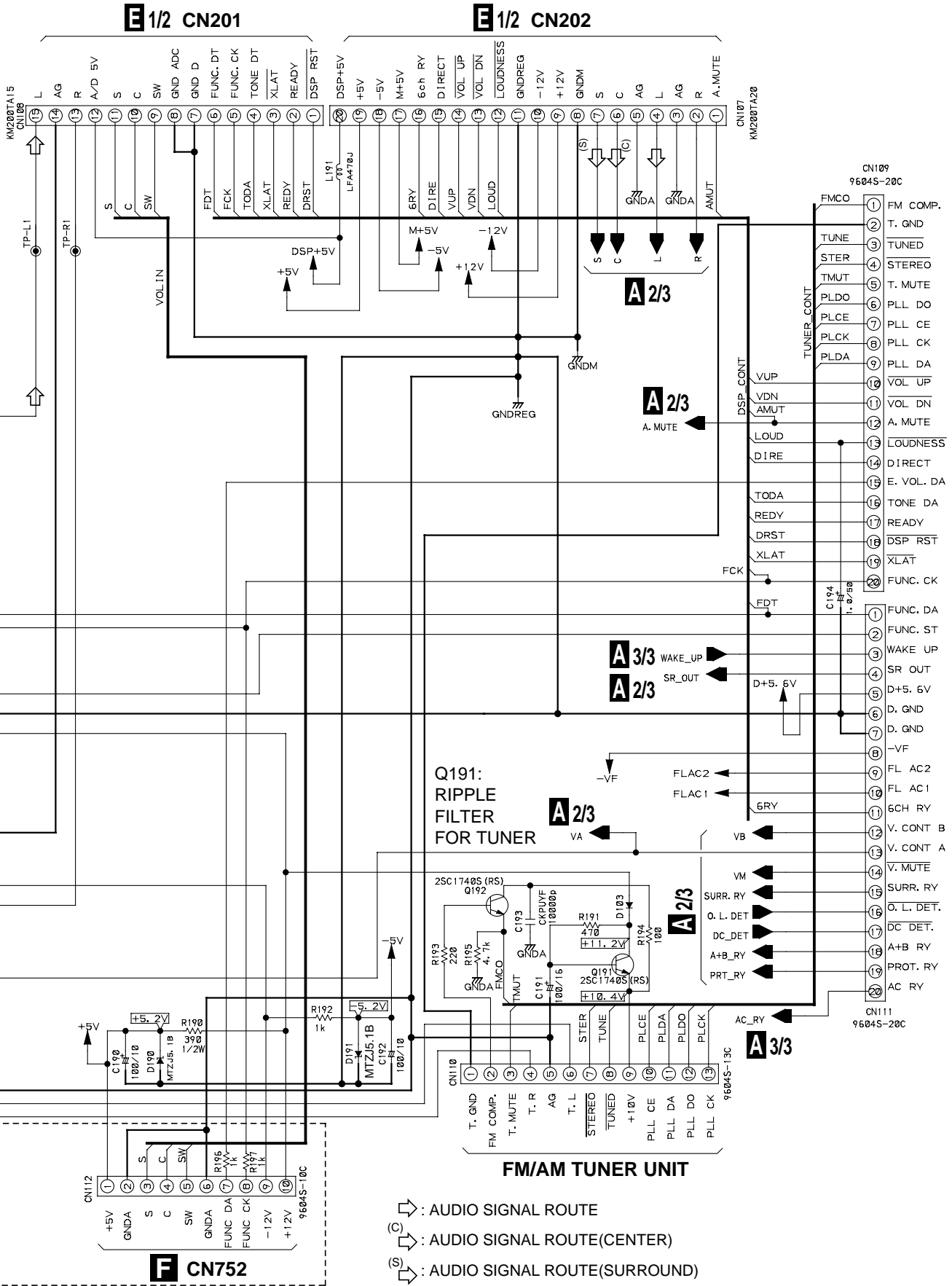


A 1/3
MOTHER ASSY
 (AWX7078:VSX-607RDS)
 (AWX7077:VSX-407RDS)

- Noted**
- Resistors**
 Indicated in ohm (Ω) 1/4W
 tolerance $\pm 5\%$
 unless otherwise noted
 k: k Ω , M: M Ω
 - Capacitors**
 Indicated in capacity (μ F) / voltage (V)
 unless otherwise noted
 p: pF
 NP=CEANP , M=CQMA , ZA=CEZA
 - Diodes**
 Other diodes (not noted) are 1SS254
 - Inductors**
 Indicated in H. tolerance $\pm 5\%$
 unless otherwise noted
 μ : μ H
 - Voltage**
 : DC voltage (V) at no input signal

H CN571

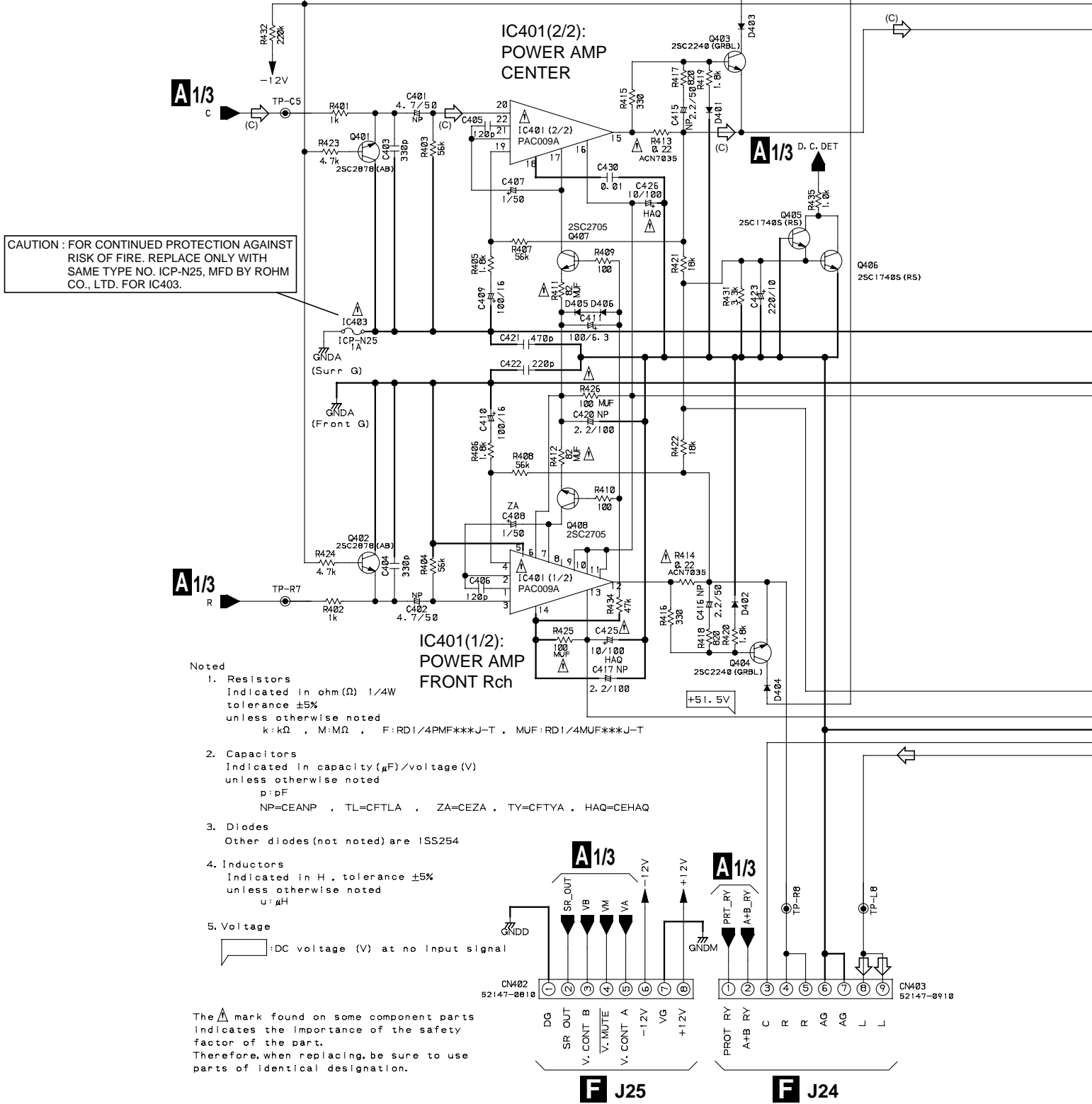
VSX-607RDS ONLY



- ↪ : AUDIO SIGNAL ROUTE
- (C) ↪ : AUDIO SIGNAL ROUTE(CENTER)
- (S) ↪ : AUDIO SIGNAL ROUTE(SURROUND)

3.3 MOTHER ASSY (2/3)

A2/3
MOTHER ASSY
(AWX7078:VSX-607RDS)
(AWX7077:VSX-407RDS)



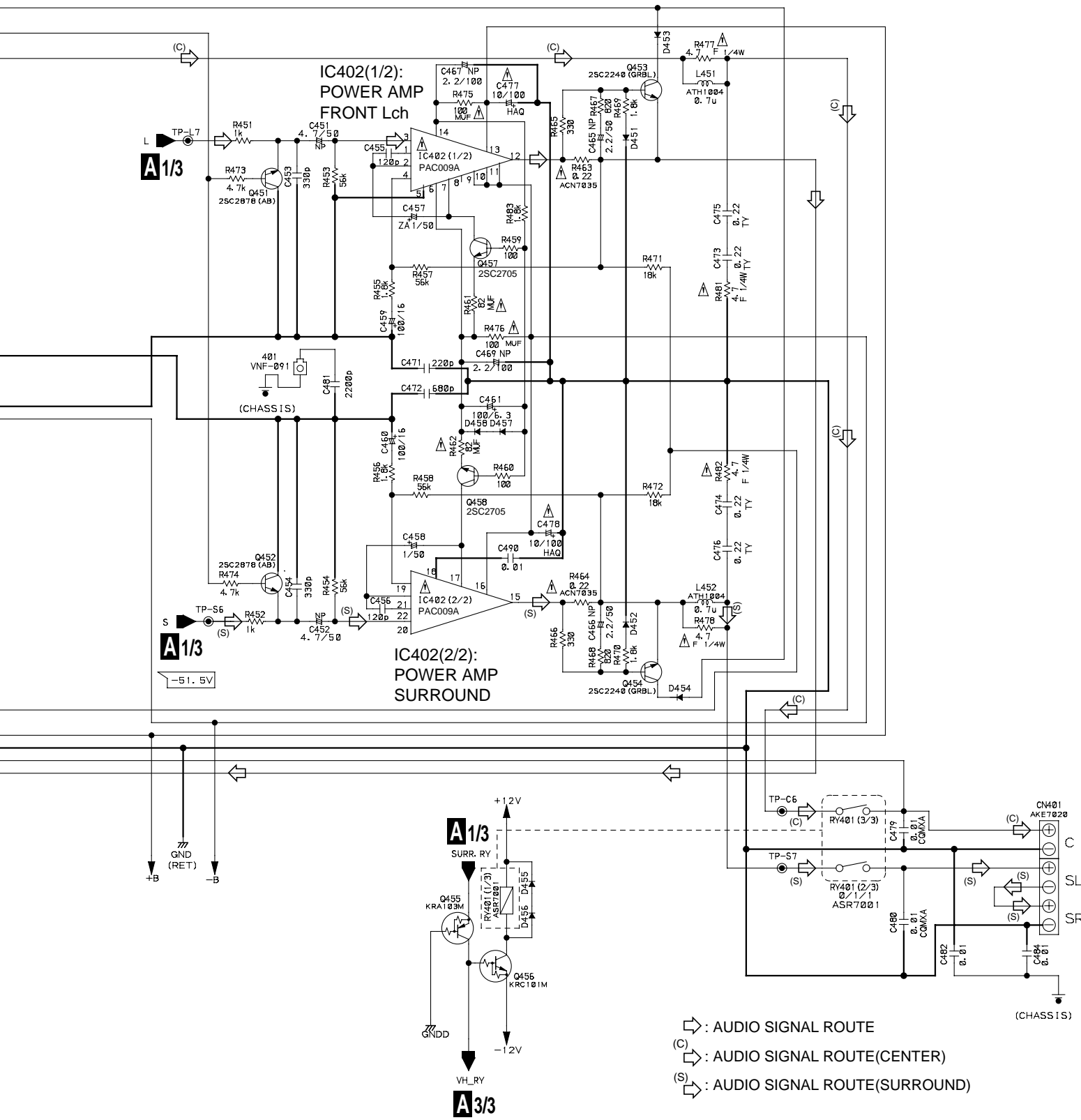
A1/3

A1/3

A1/3

A3/3

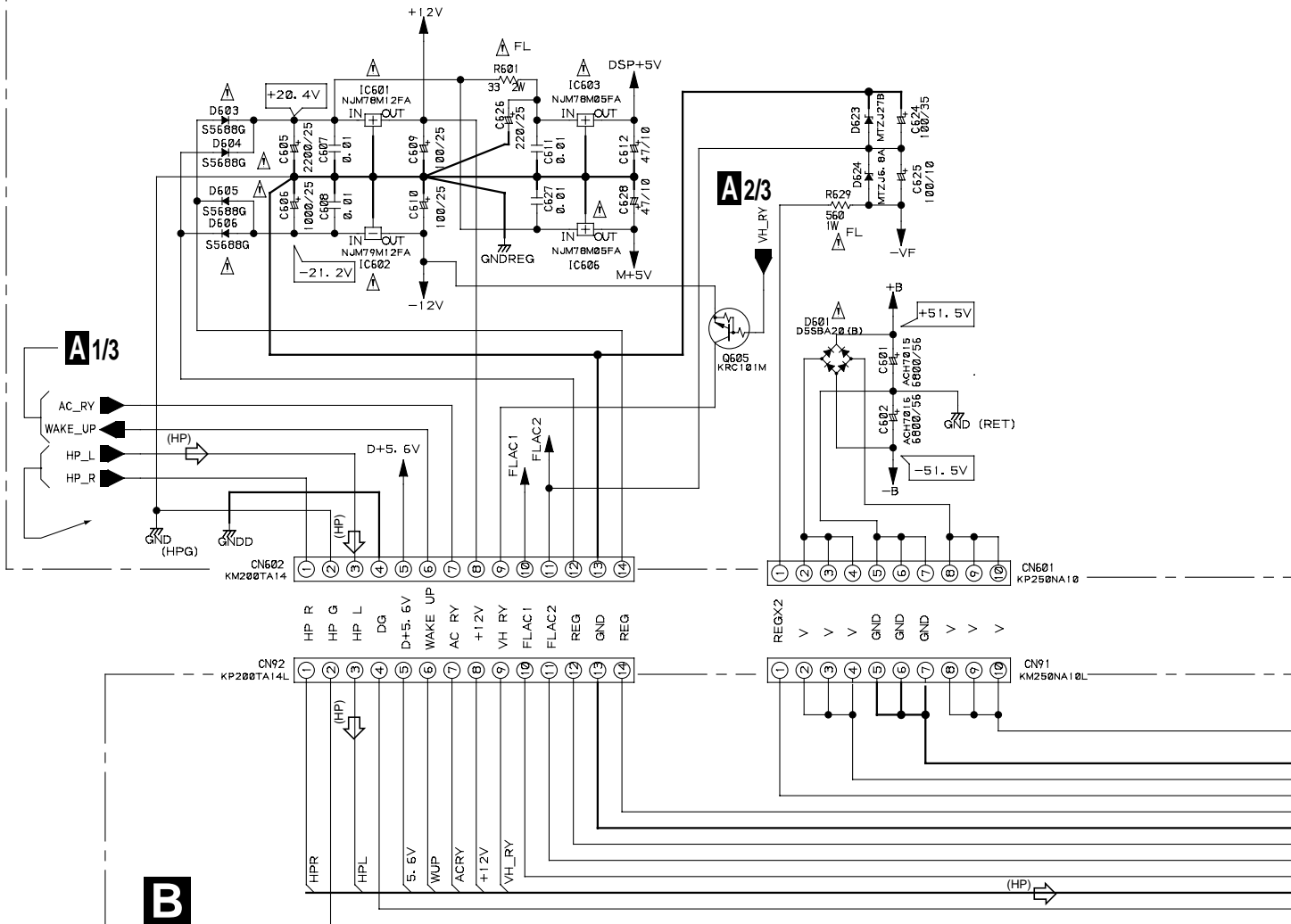
A2/3



- : AUDIO SIGNAL ROUTE
- (C) → : AUDIO SIGNAL ROUTE(CENTER)
- (S) → : AUDIO SIGNAL ROUTE(SURROUND)

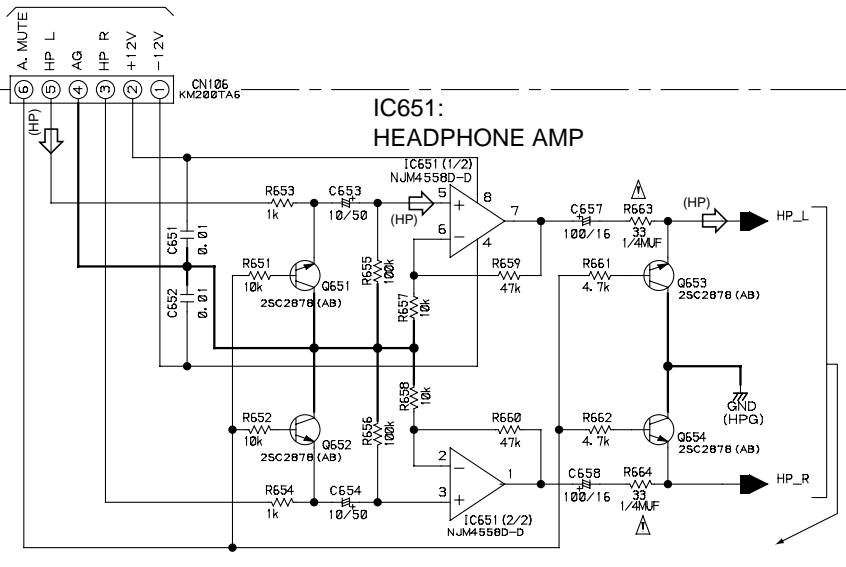
3.4 MOTHER (3/3), CONNECTION AND TRANS 2 ASSEMBLIES

A_{3/3}
MOTHER ASSY
 (AWX7078:VSX-607RDS)
 (AWX7077:VSX-407RDS)



B
CONNECTION ASSY
 (AWX7165:VSX-607RDS)
 (AWX7079:VSX-407RDS)

E1/2 CN203



(HP) → AUDIO SIGNAL ROUTE(HEADPHONE)

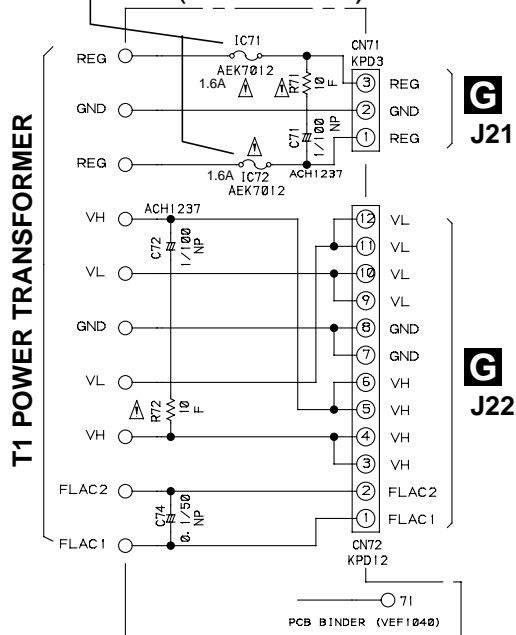
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE NO. 49101.6 MFD, BY LITTELFUSE INK. FOR IC71,IC72 (AEK7012).

Noted

- Resistors**
Indicated in ohm(Ω) 1/4W tolerance ±5% unless otherwise noted
k:kΩ, M:MΩ, F:RD1/4PMF***J-T, FL:RS*LMF***J MUF:RD1/4MUF***J-T
- Capacitors**
Indicated in capacity (μF)/voltage(V) unless otherwise noted
p:pF NP=CEANP
- Diodes**
Other diodes(not noted) are 1SS254
- Inductors**
Indicated in H, tolerance ±5% unless otherwise noted
u:μH
- Voltage**
:DC voltage (V) at no input signal

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.

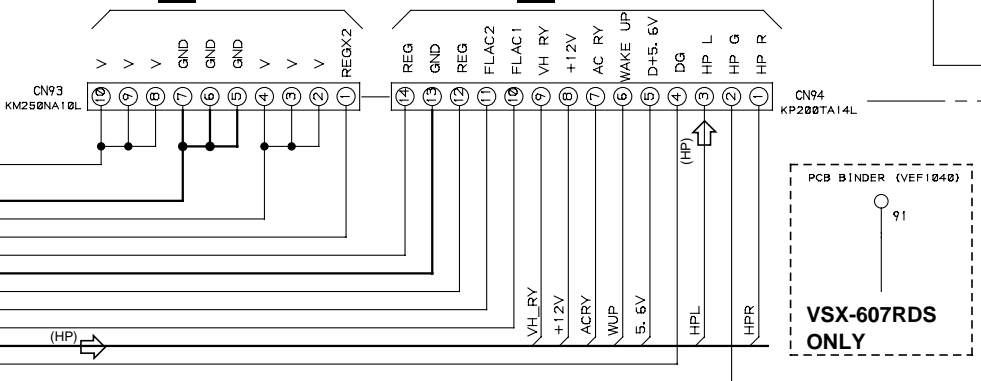
C TRANS 2 ASSY (AWX7080)



T1 POWER TRANSFORMER

G CN952

G CN953



3.5 FRONT ASSY

A/1/3 CN109

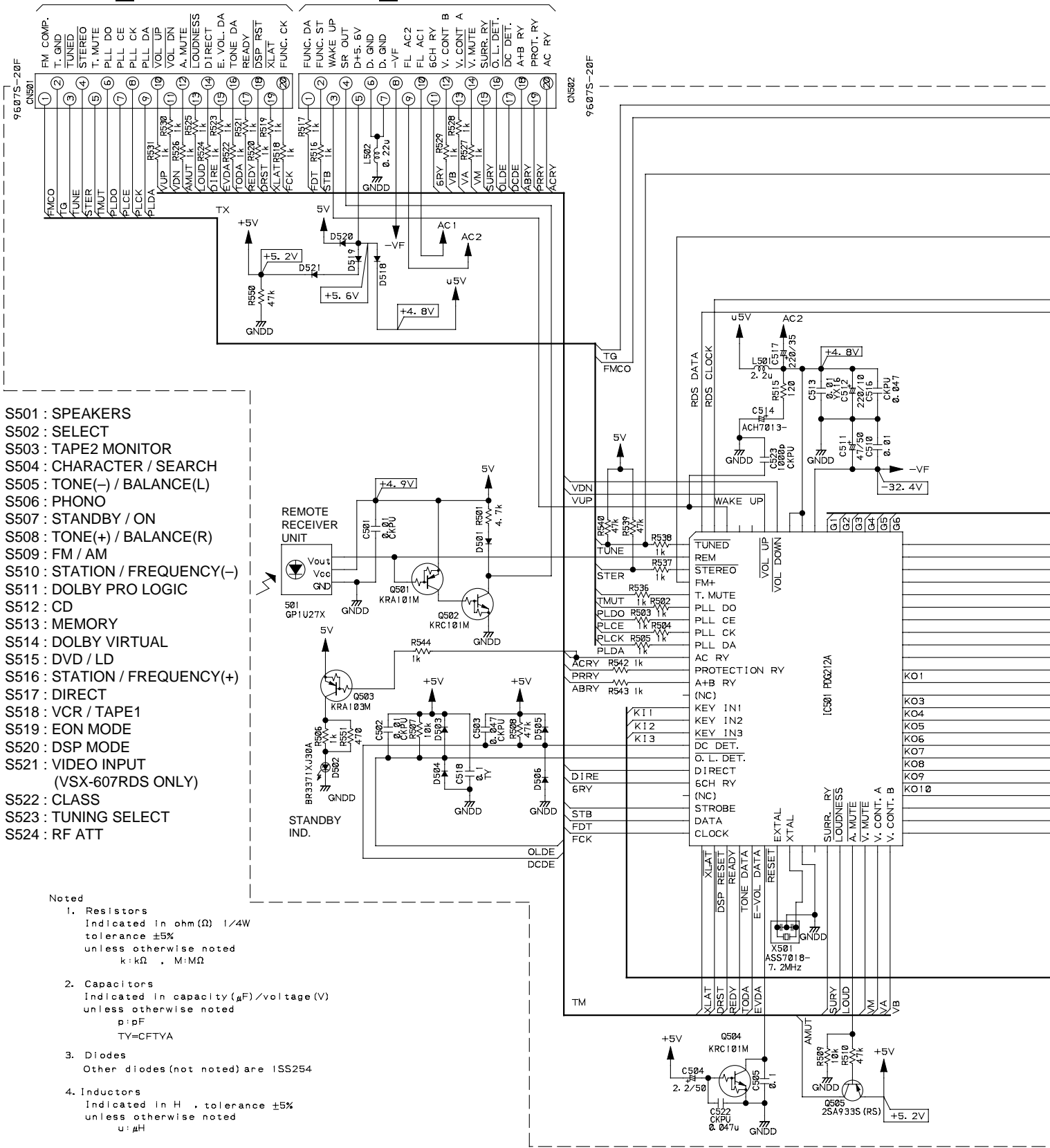
A/1/3 CN111

A

B

C

D



- S501 : SPEAKERS
- S502 : SELECT
- S503 : TAPE2 MONITOR
- S504 : CHARACTER / SEARCH
- S505 : TONE(-) / BALANCE(L)
- S506 : PHONO
- S507 : STANDBY / ON
- S508 : TONE(+) / BALANCE(R)
- S509 : FM / AM
- S510 : STATION / FREQUENCY(-)
- S511 : DOLBY PRO LOGIC
- S512 : CD
- S513 : MEMORY
- S514 : DOLBY VIRTUAL
- S515 : DVD / LD
- S516 : STATION / FREQUENCY(+)
- S517 : DIRECT
- S518 : VCR / TAPE1
- S519 : EON MODE
- S520 : DSP MODE
- S521 : VIDEO INPUT (VSX-607RDS ONLY)
- S522 : CLASS
- S523 : TUNING SELECT
- S524 : RF ATT

Noted

1. Resistors
Indicated in ohm(Ω) 1/4W tolerance ±5% unless otherwise noted
k:kΩ , M:MΩ
2. Capacitors
Indicated in capacity(μF)/voltage(V) unless otherwise noted
p:pF
TY=CFTYA
3. Diodes
Other diodes(not noted) are 1SS254
4. Inductors
Indicated in H , tolerance ±5% unless otherwise noted
μ:μH
5. Voltage
:DC voltage (V) at no input signal

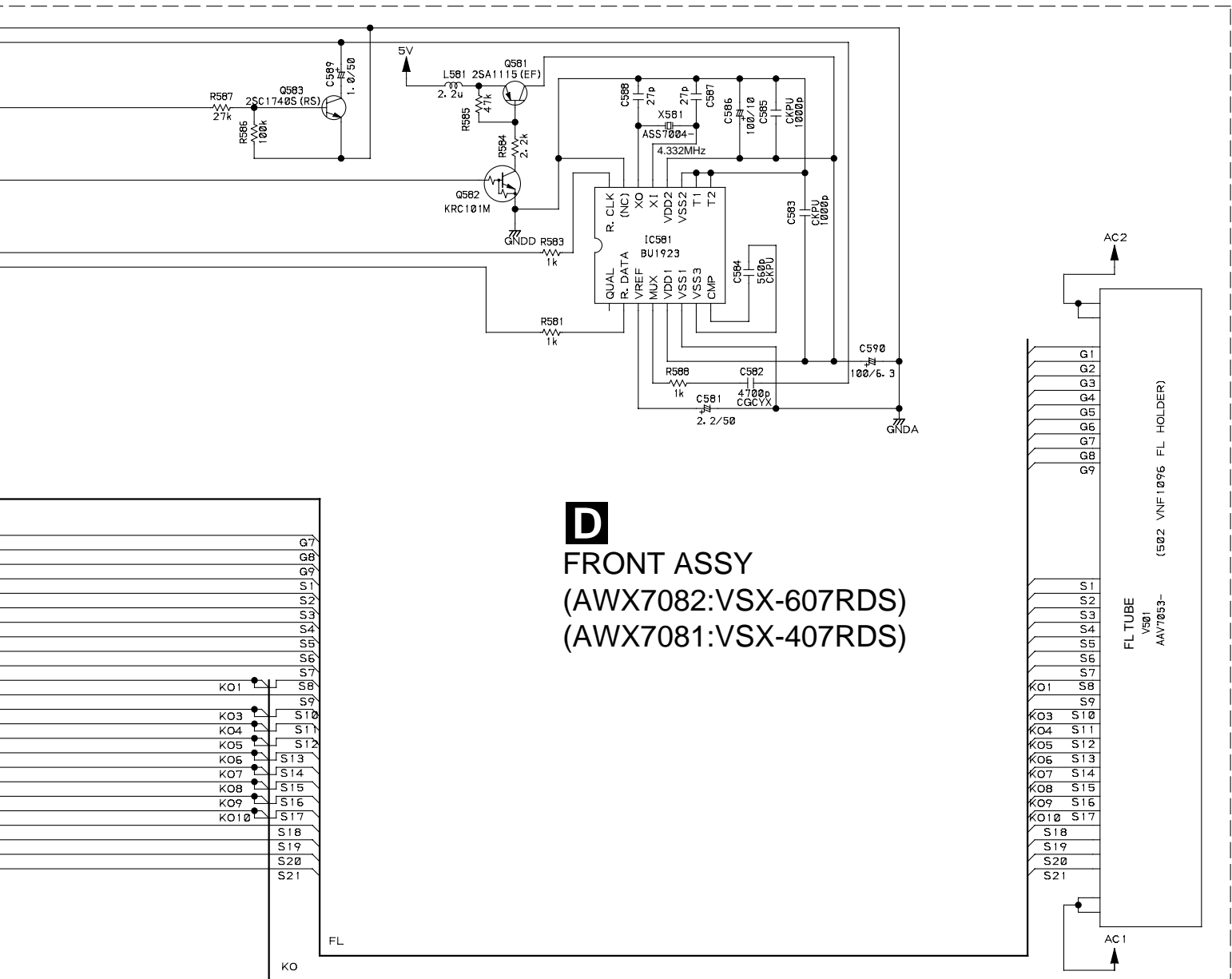


A

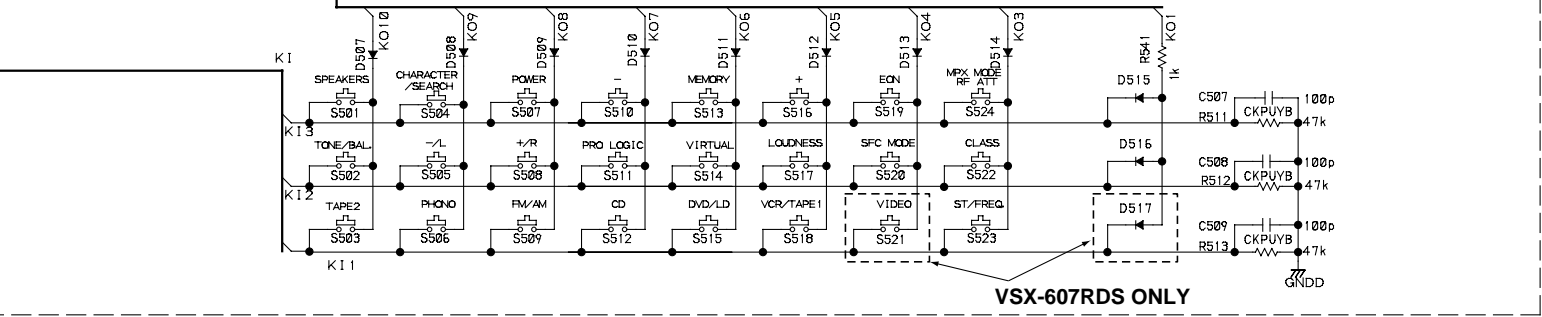
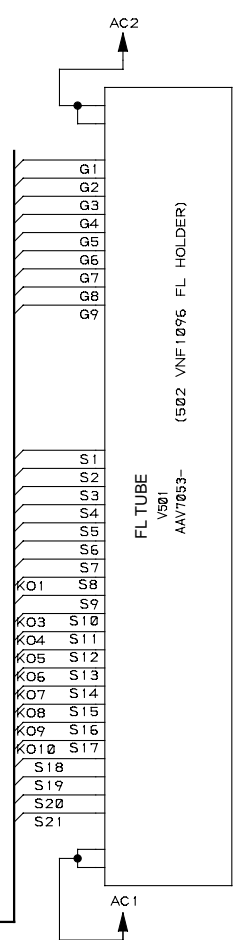
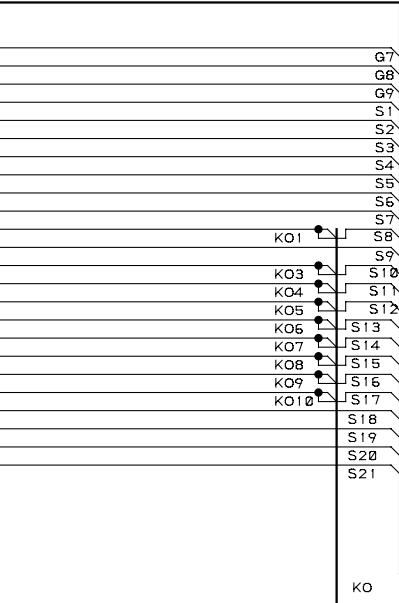
B

C

D



D
FRONT ASSY
 (AWX7082:VSX-607RDS)
 (AWX7081:VSX-407RDS)



VSX-607RDS ONLY



3.6 VOLUME DSP ASSY (1/2)

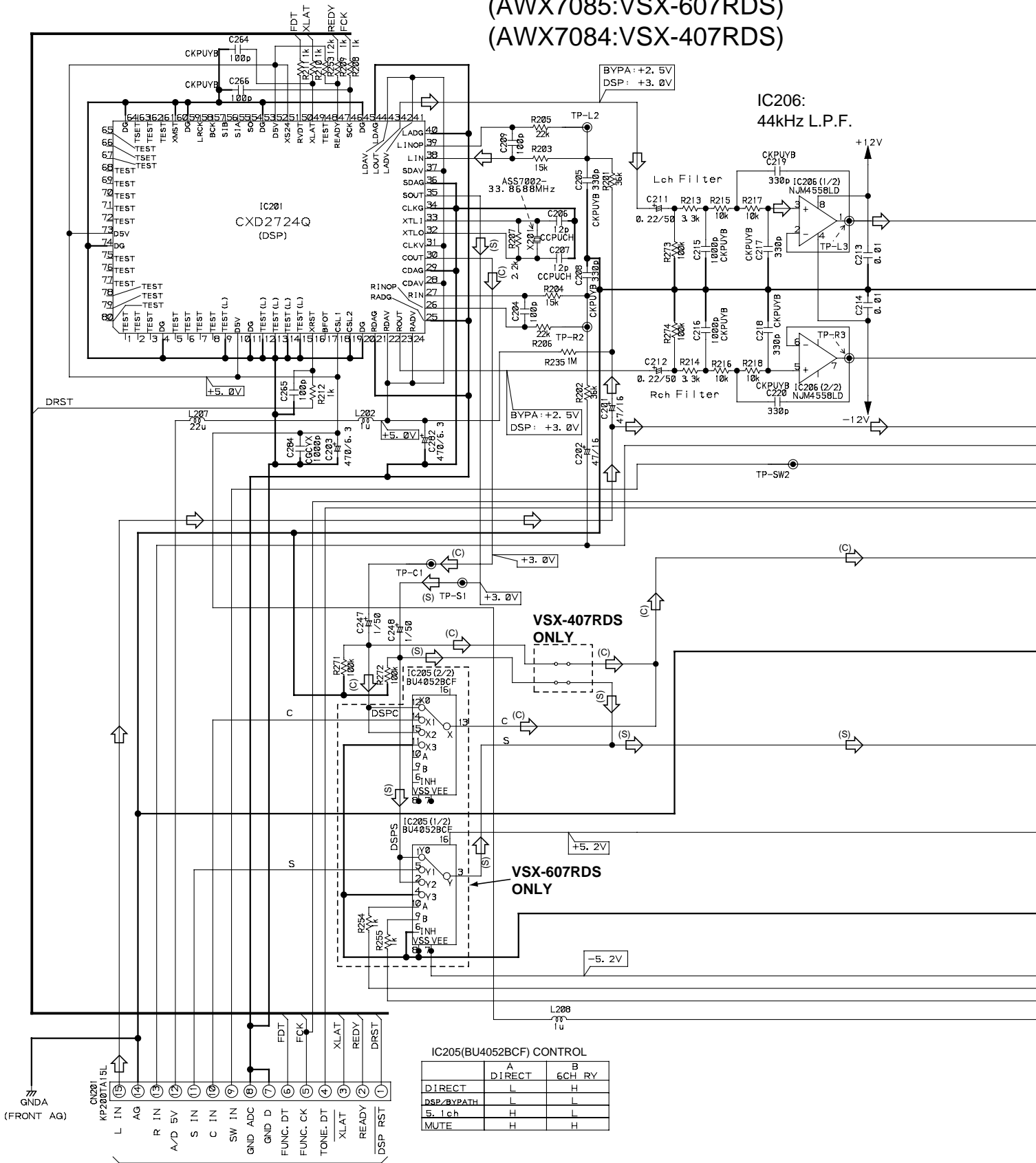
E 1/2 VOLUME DSP ASSY
(AWX7085:VSX-607RDS)
(AWX7084:VSX-407RDS)

A

B

C

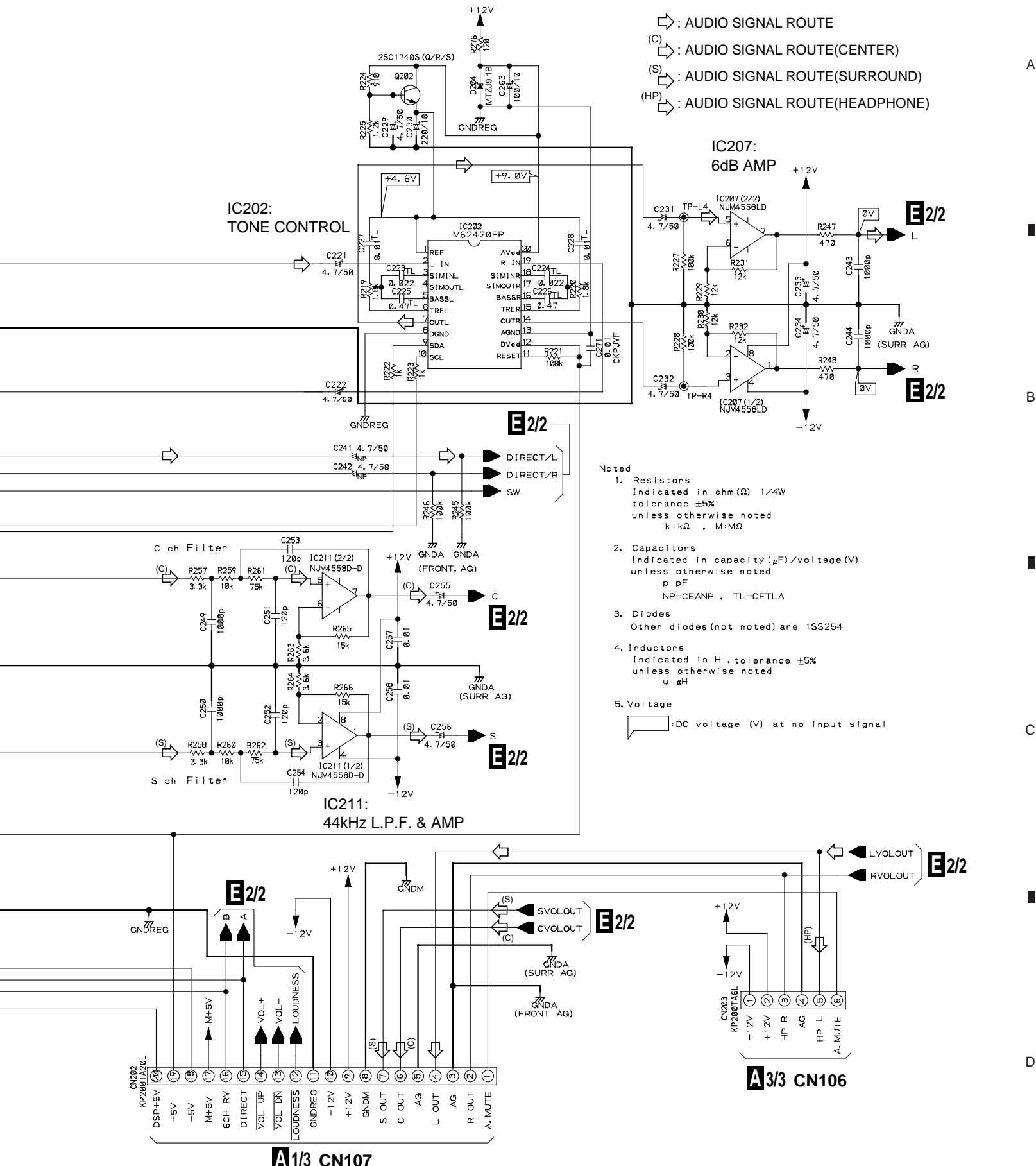
D



IC205(BU4052BCF) CONTROL

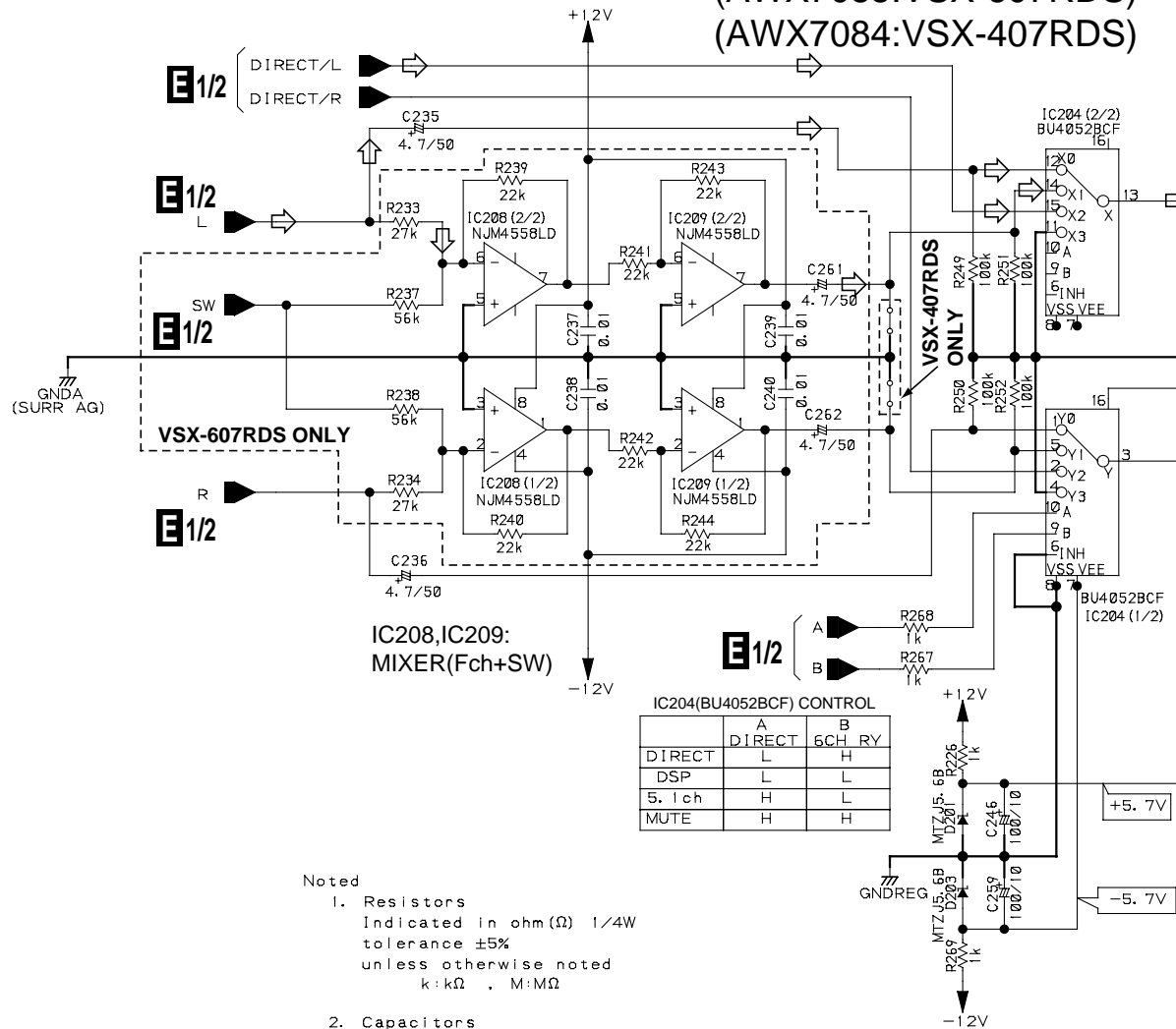
	A	B
	DIRECT	6CH RY
DIRECT	L	H
DSP/BYPATH	L	L
5. Lch	L	L
MUTE	H	H

A 1/3 CN108



3.7 VOLUME DSP ASSY (2/2)

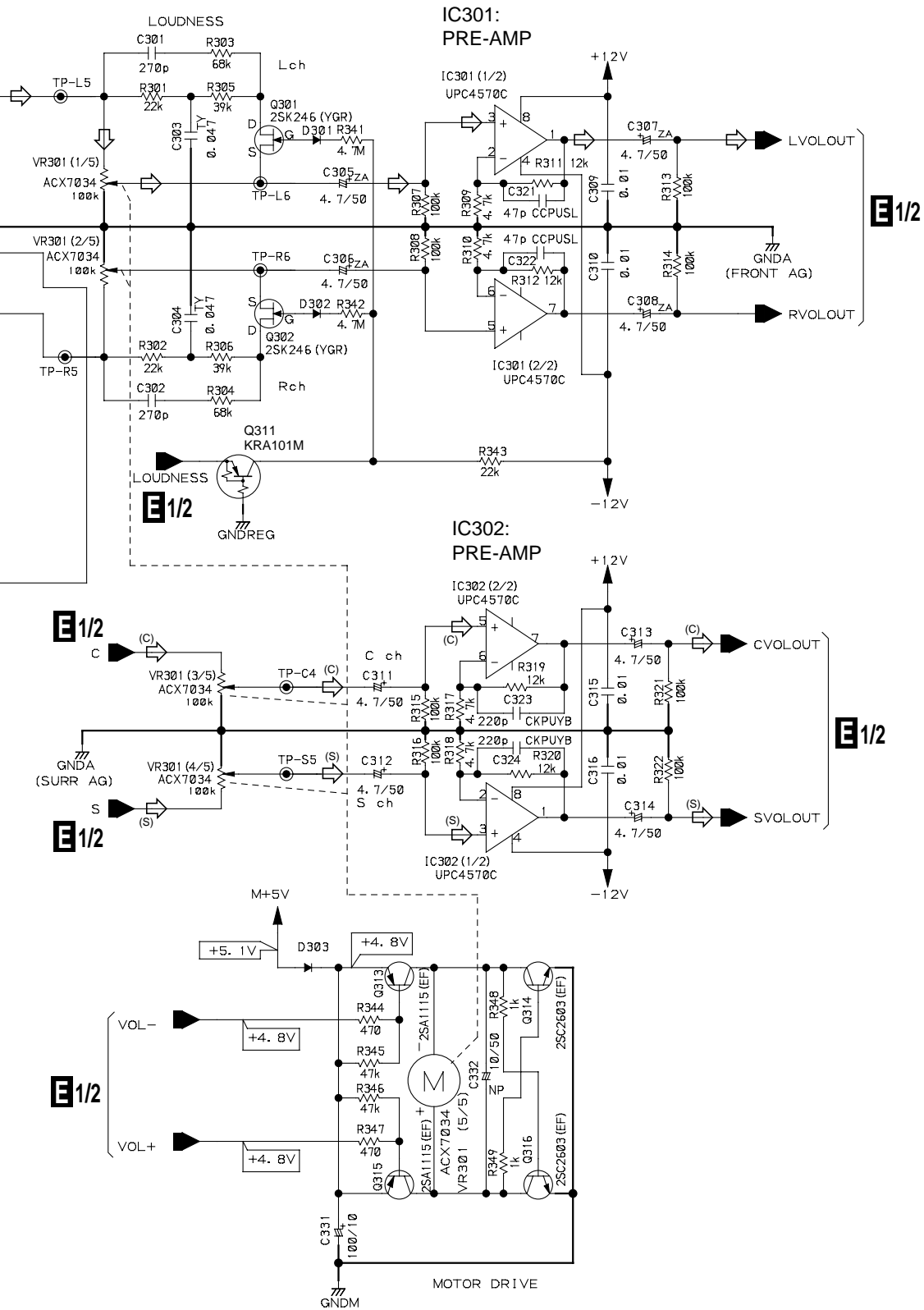
E 2/2 VOLUME DSP ASSY
(AWX7085:VSX-607RDS)
(AWX7084:VSX-407RDS)



Noted

- Resistors
Indicated in ohm (Ω) 1/4W tolerance $\pm 5\%$ unless otherwise noted
k:k Ω , M:M Ω
- Capacitors
Indicated in capacity (μF)/voltage (V) unless otherwise noted
p:pF
NP=CEANP , TY=CFTYA
ZA=CEZA
- Diodes
Other diodes (not noted) are 1SS254
- Inductors
Indicated in H, tolerance $\pm 5\%$ unless otherwise noted
u: μH
- Voltage
[] :DC voltage (V) at no input signal

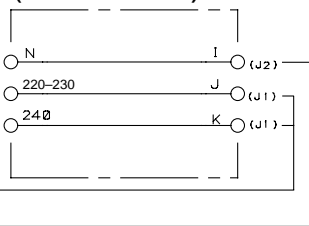
- : AUDIO SIGNAL ROUTE
- : AUDIO SIGNAL ROUTE(CENTER)
- : AUDIO SIGNAL ROUTE(SURROUND)



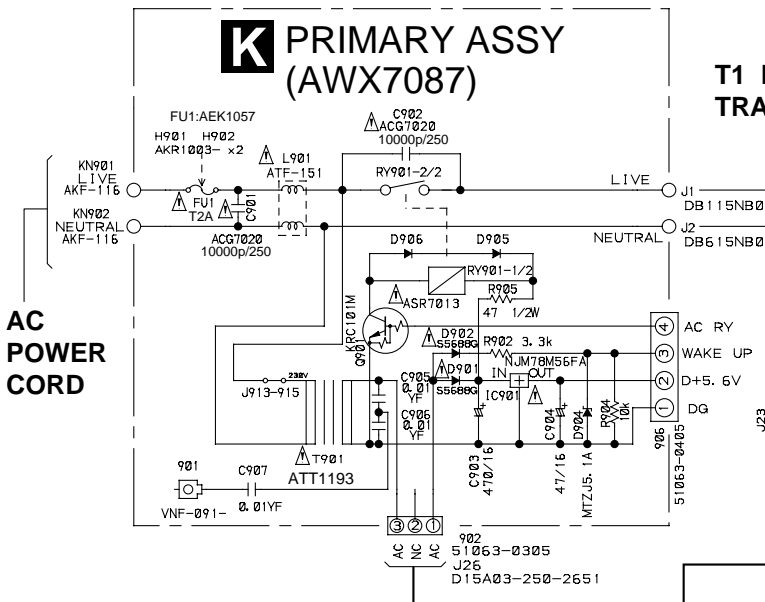
• NOTE FOR FUSE REPLACEMENT

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

I TRANS 1 ASSY (AWX7090)

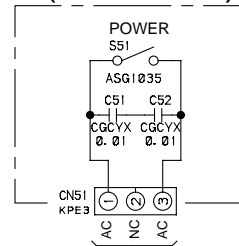


K PRIMARY ASSY (AWX7087)

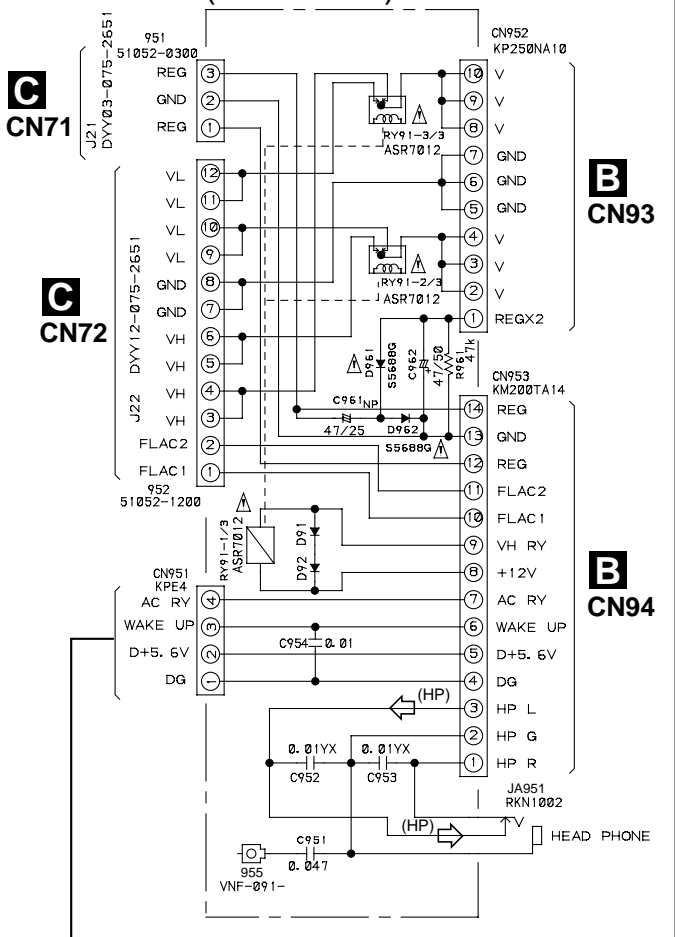


T1 POWER TRANSFORMER

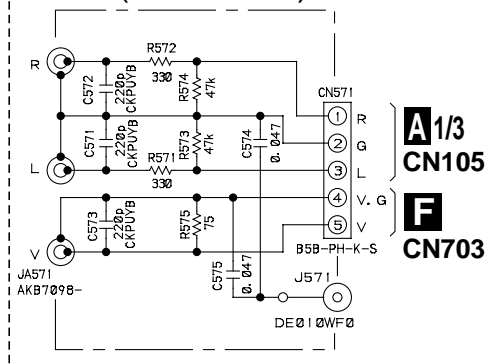
J POWER SW ASSY (AWX7061)



G HEADPHONE ASSY (AWX7086)



H FRONT INPUT ASSY (AWX7072)



Noted

- Resistors: Indicated in ohm (Ω) 1/4W tolerance ±5% unless otherwise noted. k:kΩ, M:MΩ, F=RD1/4PMF***J
- Capacitors: Indicated in capacity (μF)/voltage (V) unless otherwise noted. p:pF, TY=CFTYA, NP=CEANP, YF=CKCYF, YX=CGCYX
- Diodes: Other diodes (not noted) are 1SS254
- Inductors: Indicated in H, tolerance ±5% unless otherwise noted. u:μH
- Voltage: [Symbol] :DC voltage (V) at no input signal

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.

(HP) \rightarrow : AUDIO SIGNAL ROUTE(HEADPHONE)



4. PCB CONNECTION DIAGRAM

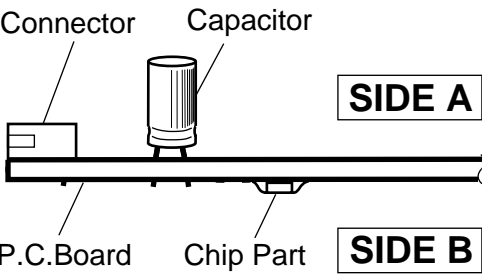
4.1 MOTHER ASSY

NOTE FOR PCB DIAGRAMS :

- Part numbers in PCB diagrams match those in the schematic diagrams.
- 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

- 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.
- View point of PCB diagrams.

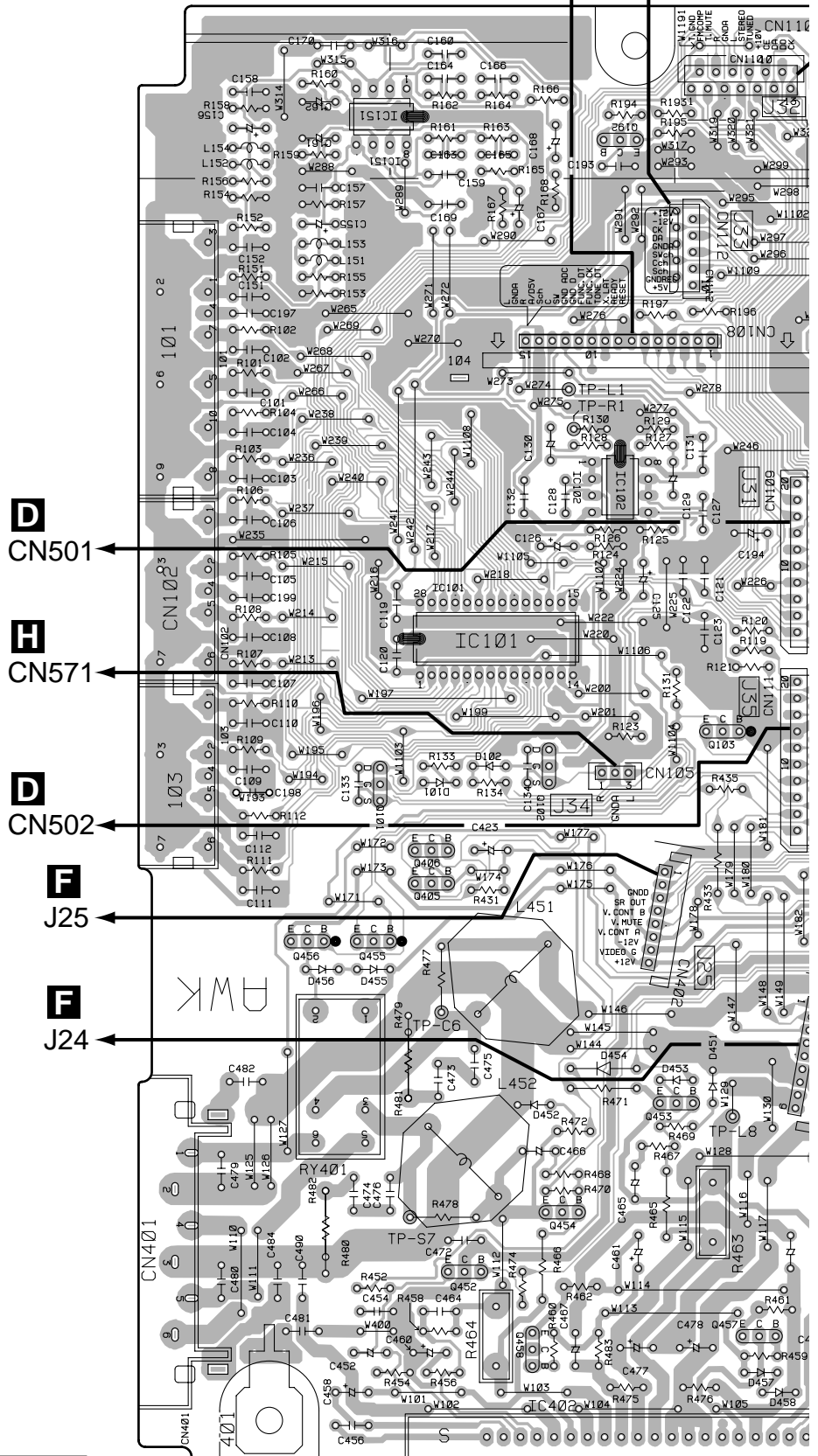


C

D

A MOTHER ASSY

E F F 7



D CN501

H CN571

D CN502

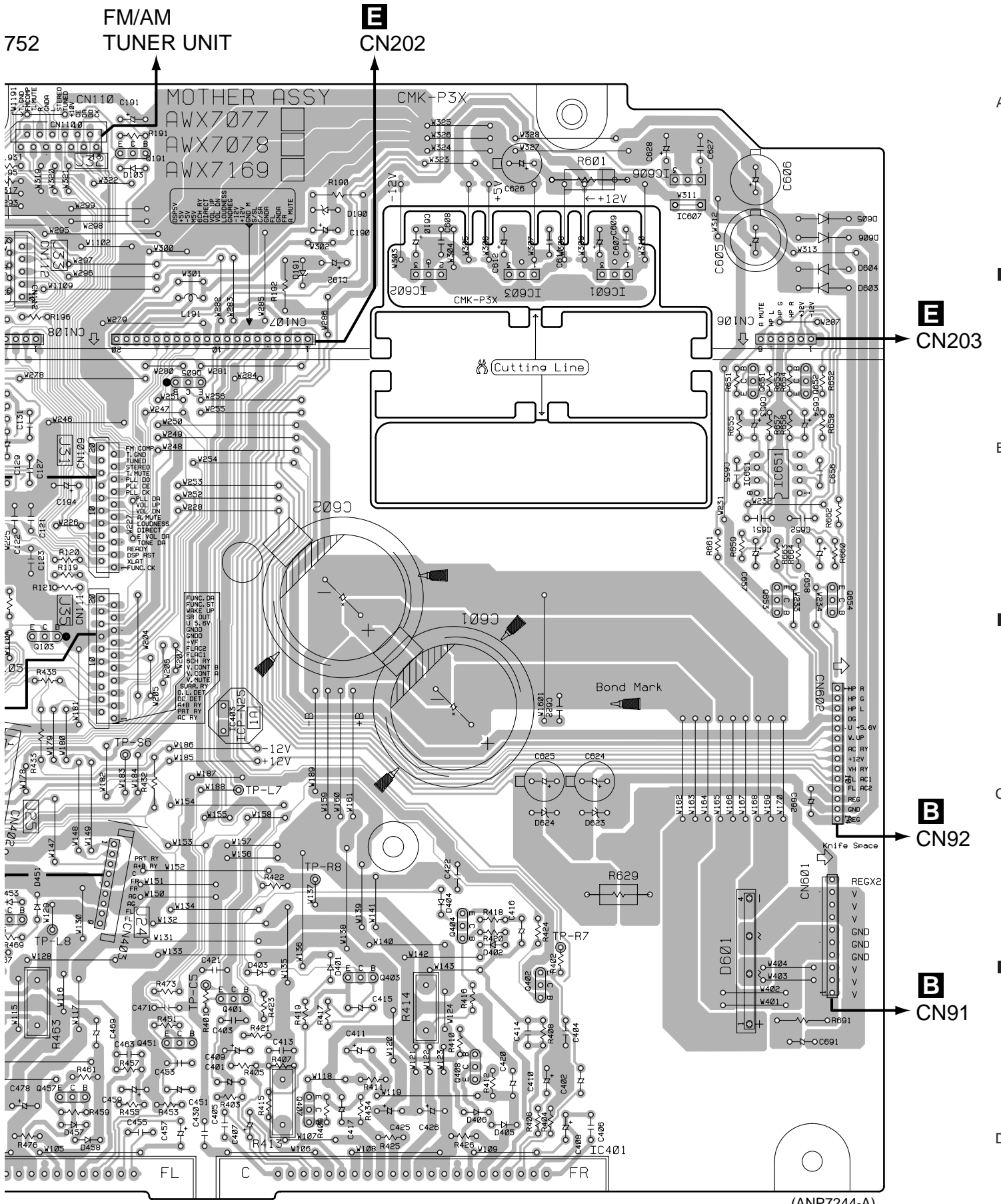
F J25

F J24

SIDE A

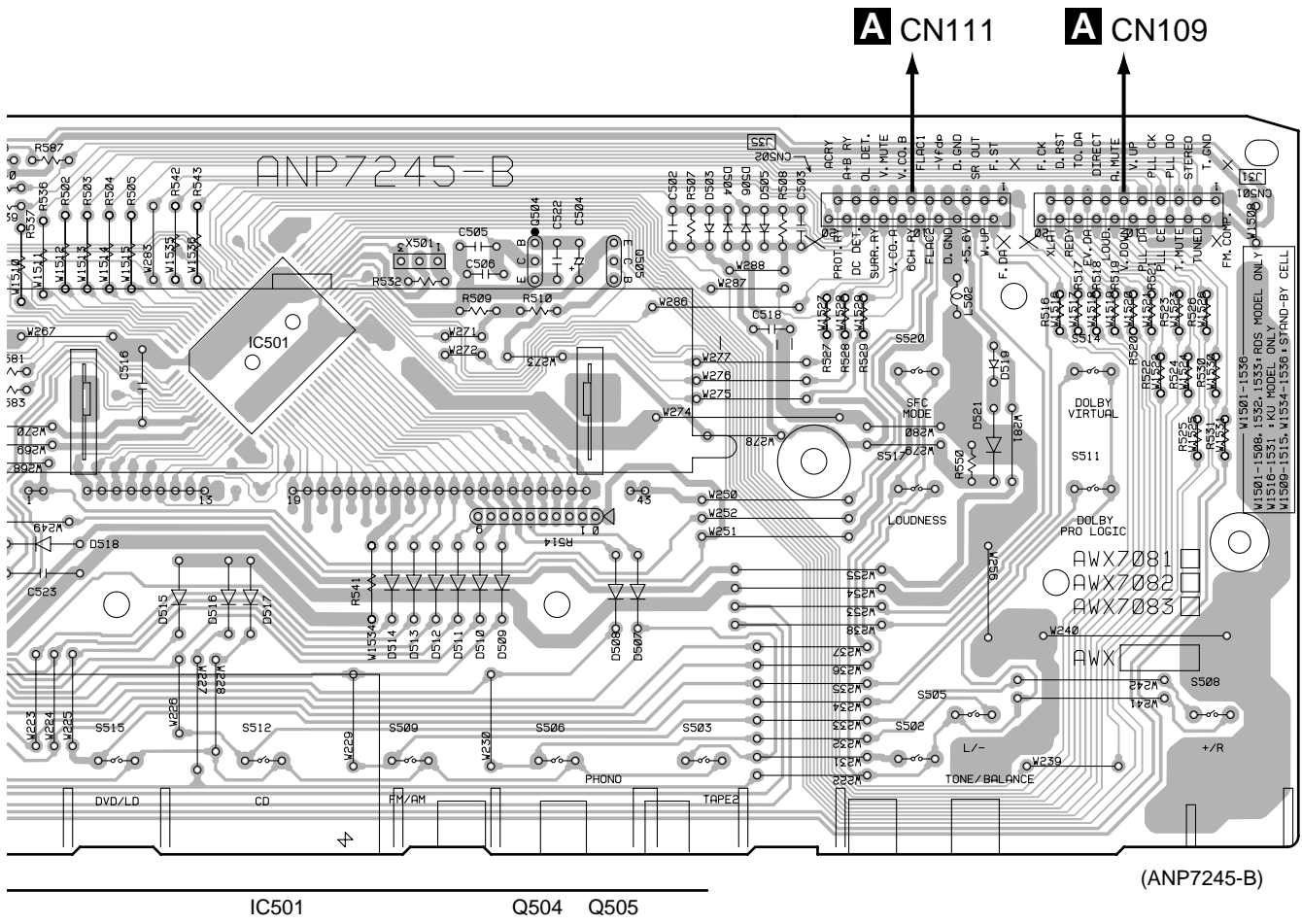
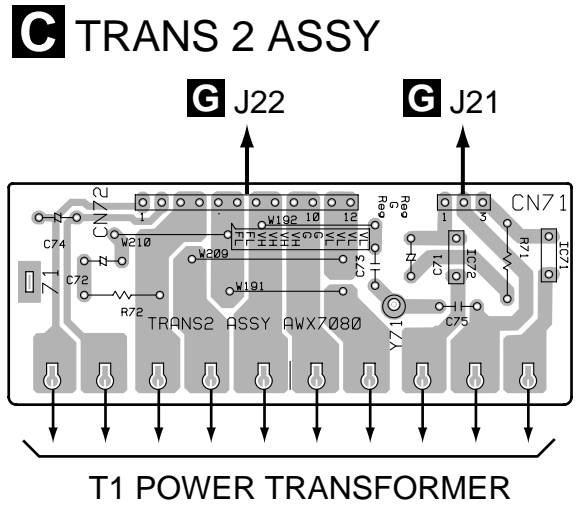
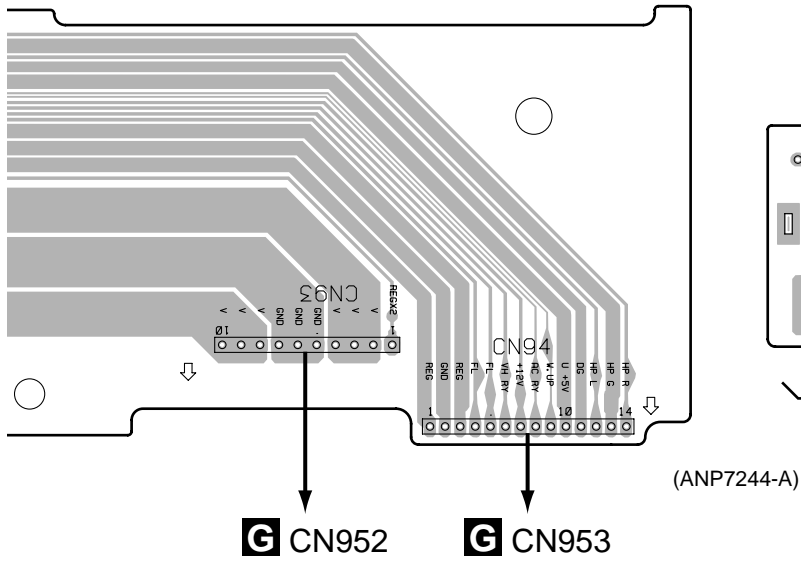
IC151 Q101 Q406 IC101 Q458 Q102 Q192 Q103
 Q456 Q455 Q405 Q452 IC402Q454 IC102 Q453 Q457





Q103	Q191	Q605	IC403	Q407	Q403	IC602	Q404	IC603	IC601	IC606	Q651-Q654
I453	Q457	Q451	Q401	Q407	IC401	IC602	Q408	Q402	IC607	IC607	IC651





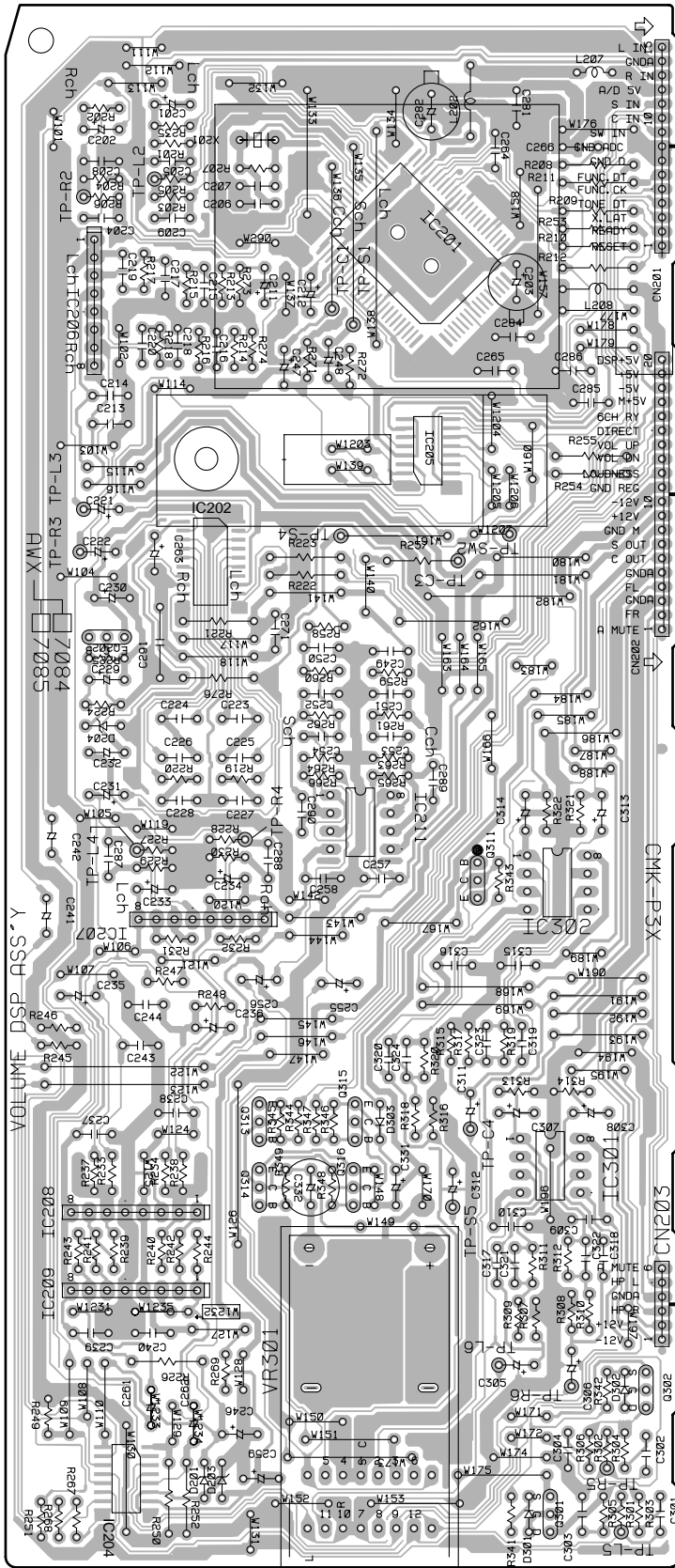
SIDE A

B C D

4.3 VOLUME DSP ASSY

E VOLUME DSP ASSY

- A
- IC201
- IC206
- IC205
- B
- IC202
- Q202
- IC211
- Q311 IC302
- IC207
- C
- IC301
- Q313-Q316
- IC208
- IC209
- Q302 VR301
- D
- IC204
- Q301



A CN108

A CN107

A CN106

SIDE A



4.5 TRANS 1, POWER SW AND PRIMARY ASSEMBLIES

● **Line Voltage Selection**

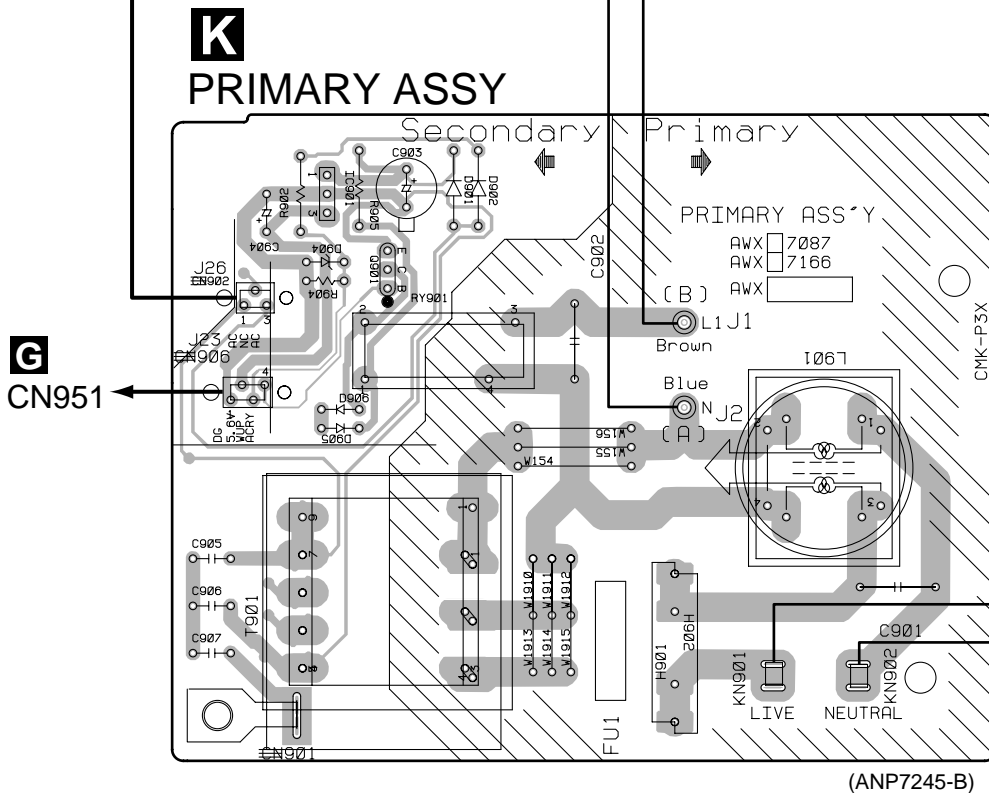
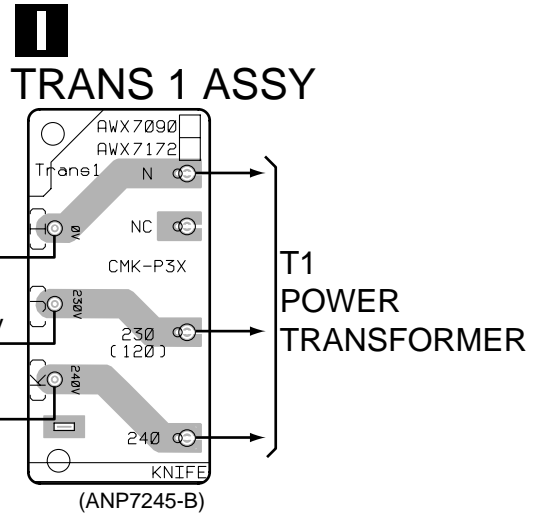
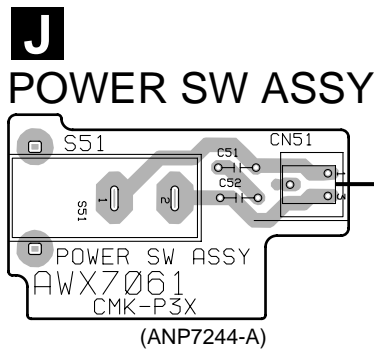
Line Voltage can be changed by the following modification:

1. Disconnect the AC power cord.
2. Remove the cover.
3. Change the connection wire from TRANS 1 ASSY [Terminal No. (J) or (K)] to PRIMARY ASSY (Terminal No. J1) as follows.

Voltage	Terminal No. of TRANS 1 ASSY
220-230V	(J)
240V	(K)

4. Stick a line voltage label on the rear panel.

Description	Part No.
220V label	AAX-193
240V label	AAX-192



SIDE A



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%).
 $560 \Omega \rightarrow 56 \times 10^1 \rightarrow 561 \dots\dots\dots RD1/4PU \begin{matrix} \boxed{5} & \boxed{6} & \boxed{1} \\ \boxed{J} \end{matrix}$
 $47k \Omega \rightarrow 47 \times 10^3 \rightarrow 473 \dots\dots\dots RD1/4PU \begin{matrix} \boxed{4} & \boxed{7} & \boxed{3} \\ \boxed{J} \end{matrix}$
 $0.5 \Omega \rightarrow R50 \dots\dots\dots RN2H \begin{matrix} \boxed{R} & \boxed{5} & \boxed{0} \\ \boxed{K} \end{matrix}$
 $1 \Omega \rightarrow 1R0 \dots\dots\dots RSIP \begin{matrix} \boxed{1} & \boxed{R} & \boxed{0} \\ \boxed{K} \end{matrix}$
 Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
 $5.62k \Omega \rightarrow 562 \times 10^1 \rightarrow 5621 \dots\dots\dots RN1/4PC \begin{matrix} \boxed{5} & \boxed{6} & \boxed{2} & \boxed{1} \\ \boxed{F} \end{matrix}$

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.				Remarks
		VSX-607RDS		VSX-407RDS		
		HYXKEW	HYXKGR	HYXKEW	HYXKGR	
NSP	MAIN ASSY	AWK7436	AWK7436	AWK7435	AWK7435	
	└ MOTHER ASSY	AWX7078	AWX7078	AWX7077	AWX7077	
NSP	└ CONNECTION ASSY	AWX7165	AWX7165	AWX7079	AWX7079	
NSP	└ TRANS 2 ASSY	AWX7080	AWX7080	AWX7080	AWX7080	
NSP	└ POWER SW ASSY	AWX7061	AWX7061	AWX7061	AWX7061	
NSP	COMPLEX ASSY	AWK7441	AWK7441	AWK7440	AWK7440	
	└ FRONT ASSY	AWX7082	AWX7082	AWX7081	AWX7081	
	└ VOLUME DSP ASSY	AWX7085	AWX7085	AWX7084	AWX7084	
	└ FRONT SPEAKER ASSY	AWX7089	AWX7089	AWX7088	AWX7088	
NSP	└ HEADPHONE ASSY	AWX7086	AWX7086	AWX7086	AWX7086	
NSP	└ FRONT INPUT ASSY	AWX7072	AWX7072	Not used	Not used	
NSP	└ TRANS 1 ASSY	AWX7090	AWX7090	AWX7090	AWX7090	
	└ PRIMARY ASSY	AWX7087	AWX7087	AWX7087	AWX7087	

Mark No. Description Part No.

A MOTHER ASSY

(1) CONTRAST TABLE

AWX7078 and AWX7077 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7078	AWX7077	
	Q101,Q102	2SK246	Not used	
	Q103	KRA103M	Not used	
	D101,D102	1SS254	Not used	
	R131	RD1/4PU474J	Not used	
	R133,R134	RD1/4PU475J	Not used	
	R196,R197	RD1/4PU102J	Not used	
	CN105 KR CONNECTOR 3P	B3B-PH-K-S	Not used	
	CN112 10P CONNECTOR	9604S-10C	Not used	
	PCB BINDER	VEF1040	Not used	

(2) PARTS LIST FOR AWX7078

SEMICONDUCTORS

Δ	IC403	ICP-N25
	IC151	M5220P
	IC651	NJM4558D-D
Δ	IC603,IC606	NJM78M05FA
Δ	IC601	NJM78M12FA

Mark No. Description Part No.

Δ	IC602	NJM79M12FA
Δ	IC401,IC402	PAC009A
	IC101	TC9163AN
	IC102	UPC4570C
	Q191,Q192,Q405,Q406	2SC1740S
	Q403,Q404,Q453,Q454	2SC2240
	Q407,Q408,Q457,Q458	2SC2705
	Q401,Q402,Q451,Q452	2SC2878
	Q651-Q654	2SC2878
	Q101,Q102	2SK246
	Q103,Q455	KRA103M
	Q456,Q605	KRC101M
	D101-D103,D401-D406	1SS254
	D451-D458	1SS254
Δ	D601	D5SBA20(B)
	D623	MTZJ27B
	D190,D191	MTZJ5.1B
	D624	MTZJ6.8A
Δ	D603-D606	S5688G

COILS

L451,L452	AF CHOKE COIL (0.7mH)	ATH1004
L151-L154		LAU221J
L191		LFA470J

RELAY

RY401	ASR7001
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VSX-607RDS, VSX-407RDS

Mark No. Description Part No.

CAPACITORS

C601 (6800µF/56V)	ACH7015
C602 (6800µF/56V)	ACH7016
C121-C123,C151,C152	CCCSL101J50
C405,C406,C455,C456	CCCSL121J50
C157,C158	CCCSL151J50
C101-C112,C422,C471	CCCSL221J50
C127,C128,C403,C404	CCCSL331J50
C453,C454	CCCSL331J50
C415,C416,C465,C466	CEANP2R2M50
C417,C420,C467,C469	CEANP2R2M2A
C129,C130,C401,C402	CEANP4R7M50
C451,C452	CEANP4R7M50
C155,C156,C653,C654	CEAT100M50
C190,C192,C625	CEAT101M10
C191,C409,C410,C459,C460	CEAT101M16
C657,C658	CEAT101M16
C609,C610	CEAT101M25
C624	CEAT101M35
C411,C461	CEAT101M6R3
C606	CEAT102M25
C194,C407,C458	CEAT1R0M50
C423	CEAT221M10
C626	CEAT221M25
C605	CEAT222M25
C167,C168	CEAT2R2M50
C612,C628	CEAT470M10
C161,C162	CEAT470M25
△ C425,C426,C477,C478	CEHAQ100M2A
C408,C457	CEZA1R0M50
C125,C126	CEZA2R2M50
C473-C476	CFTYA224J50
C199,C482,C484	CGCYX103M16
C159,C160,C421	CKCYB471K50
C472	CKCYB681K50
C119,C120,C131,C132	CKCYF103Z50
C169,C170,C430,C490	CKCYF103Z50
C607,C608,C611,C627	CKCYF103Z50
C651,C652	CKCYF103Z50
C481	CKCYF222Z50
C197	CKPUYB102K50
C193	CKPUYF103Z25
C165,C166	CQMA242J50
C163,C164	CQMB822J50
C479,C480	CQMXA103J2A

RESISTORS

△ R413,R414,R463,R464(0.22Ω,5W)	ACN7035
R190	RD1/2PM391J
△ R425,R426,R475,R476	RD1/4MUF101J
△ R663,R664	RD1/4MUF330J
△ R411,R412,R461,R462	RD1/4MUF820J
△ R477,R478,R481,R482	RD1/4PMF4R7J
△ R629	RS1LMF561J
△ R601	RS2LMF330J
Other Resistors	RD1/4PU□□□J

OTHERS

CN402 8P JUMPER CONNECTOR	52147-0810
CN403 9P JUMPER CONNECTOR	52147-0910
CN112 10P FFC CONNECTOR	9604S-10C
CN110 13P FFC CONNECTOR	9604S-13C
CN109,CN111 20P FFC CONNECTOR	9604S-20C

Mark No. Description Part No.

101	6P PIN JACK	AKB7012
103	4P PIN JACK	AKB7014
CN102	4P PIN JACK	AKB7015
CN401	6P SPEAKER TERMINAL	AKE7020
CN105	KR CONNECTOR 3P	B3B-PH-K-S
CN602	14P PLUG	KM200TA14
CN108	15P PLUG	KM200TA15
CN107	20P PLUG	KM200TA20
CN106	6P PLUG	KM200TA6
CN601	10P SOCKET	KP250NA10
	PCB BINDER	VEF1040
	EARTH METAL FITTING	VNF-091

B CONNECTION ASSY

(1) CONTRAST TABLE

AWX7165 and AWX7079 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7165	AWX7079	
	PCB BINDER	VEF1040	Not used	

(2) PARTS LIST FOR AWX7165

OTHERS

CN91,CN93	10P PLUG	KM250NA10L
CN92,CN94	14P SOCKET	KP200TA14L
	PCB BINDER	VEF1040

C TRANS 2 ASSY

SEMICONDUCTORS

△ IC71,IC72 (1.6A)	AEK7012
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CAPACITORS

C71,C72 (1µF/100V)	ACH1237
C74	CEANPR10M50

RESISTORS

△ R71,R72	RD1/4PMF100J
Other Resistors	RD1/4PM□□□J

OTHERS

CN72	12P JUMPER CONNECTOR	KPD12
CN71	3P JUMPER CONNECTOR	KPD3
	PCB BINDER	VEF1040

D FRONT ASSY

(1) CONTRAST TABLE

AWX7082 and AWX7081 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7082	AWX7081	
D517	1SS254		Not used	
S521	ASG1034		Not used	

Mark No. Description Part No.

(2) PARTS LIST FOR AWX7082

SEMICONDUCTORS

IC581 BU1923
 IC501 PDG212A
 Q581 2SA1115
 Q505 2SA933S
 Q583 2SC1740S

Q501 KRA101M
 Q503 KRA103M
 Q502,Q504,Q582 KRC101M
 D501,D503-D521 1SS254
 D502 BR3371XJ30A

COILS

L501,L581 LAU2R2J
 L502 LAUR22J

SWITCHES

S501-S524 ASG1034

CAPACITORS

C514 ACH7013
 C587,C588 CCCCH270J50
 C590 CEAL101M6R3
 C586 CEAT101M10
 C589 CEAT1R0M50

C512 CEAT221M10
 C517 CEAT221M35
 C504,C581 CEAT2R2M50
 C511 CEAT470M50
 C518 CFTYA104J50

C513 CGCYX103M16
 C505 CGCYX104M16
 C582 CGCYX472M25
 C510 CKCYF103Z50
 C507-C509 CKPUYB101K50

C523,C583,C585 CKPUYB102K50
 C584 CKPUYB561K50
 C501,C502 CKPUYF103Z25
 C503,C516,C522 CKPUYF473Z16

RESISTORS

All Resistors RD1/4PU□□□J

OTHERS

X581 CRYSTAL RESONATOR ASS7004
 (4.332MHz)
 X501 CERAMIC RESONATOR ASS7018
 (7.2MHz)
 CN501,CN502 20P FFC CONNECTOR 9607S-20F
 V501 FL TUBE AAV7053
 501 REMOTE RECEIVER UNIT GP1U27X

Mark No. Description Part No.

E VOLUME DSP ASSY

(1) CONTRAST TABLE

AWX7085 and AWX7084 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7085	AWX7084	
	IC205	BU4052BCF	Not used	
	IC208,IC209	NJM4558LD	Not used	
	C237-C240	CKCYF103Z50	Not used	
	C261,C262	CEAT4R7M50	Not used	
	R233,R234	RD1/4PU273J	Not used	
	R237,R238	RD1/4PU563J	Not used	
	R239-R244	RD1/4PU223J	Not used	
	R254,R255	RD1/4PU102J	Not used	

(2) PARTS LIST FOR AWX7085

SEMICONDUCTORS

IC204,IC205 BU4052BCF
 IC201 CXD2724Q
 IC202 M62420FP
 IC211 NJM4558D-D
 IC206-IC209 NJM4558LD

IC301,IC302 UPC4570C
 Q313,Q315 2SA1115
 Q202 2SC1740S
 Q314,Q316 2SC2603
 Q301,Q302 2SK246

Q311 KRA101M
 D301-D303 1SS254
 D201,D203 MTZJ5.6B
 D204 MTZJ9.1B

COILS

L202,L208 LAU1R0J
 L207 LAU220J

CAPACITORS

C251-C254 CCCCH121J50
 C204,C209,C265 CCCSL101J50
 C301,C302 CCCSL271J50
 C206,C207 CCPUCH120J50
 C321,C322 CCPUSL470J50

C332 CEANP100M50
 C241,C242 CEANP4R7M50
 C246,C259,C263,C331 CEAT101M10
 C247,C248 CEAT1R0M50
 C230 CEAT221M10

C201,C202 CEAT470M16
 C203,C282 CEAT471M6R3
 C221,C222,C229,C231-C236 CEAT4R7M50
 C255,C256,C261,C262 CEAT4R7M50
 C311-C314 CEAT4R7M50

C211,C212 CEATR22M50
 C305-C308 CEZA4R7M50
 C227,C228 CFTLA103J50
 C223,C224 CFTLA223J50
 C225,C226 CFTLA474J50

C303,C304 CFTYA473J50
 C243,C244,C249,C250,C284 CGCYX102K25
 C213,C214,C237-C240 CKCYF103Z50
 C257,C258,C309,C310 CKCYF103Z50
 C315,C316 CKCYF103Z50

VSX-607RDS, VSX-407RDS

Mark	No.	Description	Part No.
	C264,C266		CKPUYB101K50
	C215,C216		CKPUYB102K50
	C323,C324		CKPUYB221K50
	C205,C208,C217-C220		CKPUYB331K50
	C271		CKPUYF103Z25

RESISTORS

VR301 (100kΩ)	ACX7034
Other Resistors	RD1/4PU□□□J

OTHERS

X201 CRYSTAL RESONATOR (33.8688MHz)	ASS7002
CN201 15P SOCKET	KP200TA15L
CN202 20P SOCKET	KP200TA20L
CN203 6P SOCKET	KP200TA6L

F FRONT SPEAKER ASSY

(1) CONTRAST TABLE

AWX7089 and AWX7088 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7089	AWX7088	
	IC751	M62429P	Not used	
	IC752	NJM4558LD	Not used	
	Q703	KRA103M	Not used	
	Q704	KRC101M	Not used	
	D804,D806	1SS254	Not used	
	RY702	ASR7001	Not used	
	C707,C708	CQMXA103J2A	Not used	
	C751,C752	CEAT1R0M50	Not used	
	C753,C754,C760	CEAT4R7M50	Not used	
	C755	CEAT470M10	Not used	
	C756,C757	CCCSL101J50	Not used	
	C758,C759	CEAT470M16	Not used	
	C761,C763	CCCSL221J50	Not used	
	C762,C764	CKPUYB221K50	Not used	
	C765	CKPUYF103Z25	Not used	
	C803	CEAT100M50	Not used	
	C811	Not used	CGCYX104M16	
	R711,R712,R751	RD1/4PU103J	Not used	
	R752	RD1/4PU471J	Not used	
	R753,R754	RD1/4PU121J	Not used	
	R755,R759	RD1/4PU123J	Not used	
	R756	RD1/4PU362J	Not used	
	R757,R758	RD1/4PU153J	Not used	
	R760	RD1/4PU223J	Not used	
	R765,R766	RD1/4PU104J	Not used	
	CN701	AKE7044	Not used	
	8P SPEAKER TERMINAL			
	CN701	Not used	AKE7049	
	SPEAKER TERMINAL			
	CN703 KR CONNECTOR	B2B-PH-K-S	Not used	
	CN751 4P PIN JACK	AKB7087	Not used	
	CN752	9604S-10C	Not used	
	10P FFC CONNECTOR			

Mark	No.	Description	Part No.
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(2) PARTS LIST FOR AWX7089

SEMICONDUCTORS

IC751	M62429P
IC801	NJM2279D
IC752	NJM4558LD
Q802	2SA933S
Q801	2SC1740S
Q701,Q703	KRA103M
Q702,Q704	KRC101M
D803-D806	1SS254

COILS

L701,L702 AF CHOKE COIL	ATH1004
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RELAYS

RY701,RY702	ASR7001
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CAPACITORS

C756,C757	CCCSL101J50
C761,C763,C804,C805	CCCSL221J50
C801-C803	CEAT100M50
C806,C807	CEAT101M10
C751,C752	CEAT1R0M50

C755	CEAT470M10
C758,C759	CEAT470M16
C753,C754,C760	CEAT4R7M50
C701-C704	CFTYA224J50
C808,C809	CKCYF103Z50

C709	CKPUYB101K50
C762,C764	CKPUYB221K50
C765,C810,C851	CKPUYF103Z25
C705-C708	CQMXA103J2A

RESISTORS

△ R701-R704	RD1/4PMF4R7J
Other Resistors	RD1/4PU□□□J

OTHERS

CN752 10P FFC CONNECTOR	9604S-10C
CN702 1P PIN JACK	AKB7042
CN751 4P PIN JACK	AKB7087
JA801 4P PIN JACK (YELLOW)	AKB7100
CN701 8P SPEAKER TERMINAL	AKE7044

CN703 KR CONNECTOR	B2B-PH-K-S
J25 JUMPER WIRE 9P	D20PYY0810E
J24 JUMPER WIRE 8P	D20PYY0915E
JA851 REMOTE CONTROL JACK	RKN1004

Mark	No.	Description	Part No.
G HEADPHONE ASSY			
SEMICONDUCTORS			
	D91,D92		1SS254
△	D961,D962		S5688G
RELAY			
△	RY91		ASR7012
CAPACITORS			
	C961		CEANP470M25
	C962		CEAT470M50
	C952,C953		CGCYX103M16
	C951		CGCYX473M16
	C954		CKCYF103Z50
RESISTORS			
	All Resistors		RD1/4PU□□□J
OTHERS			
951	3P CABLE HOLDER		51052-0300
952	12P CABLE HOLDER		51052-1200
CN953	14P PLUG		KM200TA14
CN952	10P SOCKET		KP250NA10
CN951	4P JUMPER CONNECTOR		KPE4
JA951	HEADPHONE JACK EARTH METAL FITTING		RKN1002 VNF-091

H FRONT INPUT ASSY

CAPACITORS			
	C574,C575		CGCYX473M16
	C571-C573		CKPUYB221K50
RESISTORS			
	All Resistors		RD1/4PU□□□J
OTHERS			
JA571	3P PIN JACK (GOLD)		AKB7098
CN571	KR CONNECTOR		B5B-PH-K-S

I TRANS 1 ASSY

No service parts.

J POWER SW ASSY

SWITCH			
	S51		ASG1035
CAPACITORS			
	C51,C52		CGCYX103K25
OTHERS			
CN51	3P JUMPER CONNECTOR		KPE3

K PRIMARY ASSY

SEMICONDUCTORS			
△	IC901		NJM78M56FA
	Q901		KRC101M
	D905,D906		1SS254
	D904		MTZJ5.1A
△	D901,D902		S5688G
COIL			
△	L901	LINE FILTER	ATF-151
TRANSFORMER			
△	T901		ATT1193
RELAY			
△	RY901		ASR7013
CAPACITORS			
△	C901,C902 (10000pF/AC250V)		ACG7020
	C904		CEAT470M16
	C903		CEAT471M16
	C905-C907		CKCYF103Z50
RESISTORS			
	R905		RD1/2PM470J
	Other Resistors		RD1/4PU□□□J
OTHERS			
902	3P CABLE HOLDER		51063-0305
906	4P CABLE HOLDER		51063-0405
H901,H902	FUSE CLIP		AKR1003
	EARTH METAL FITTING		VNF-091
J23	JUMPER WIRE 4P		D15A04-250-2651
J26	JUMPER WIRE 3P		D15A03-250-2651

6. ADJUSTMENT

There is no information to be shown in this chapter.

7. GENERAL INFORMATION

7.1 PARTS

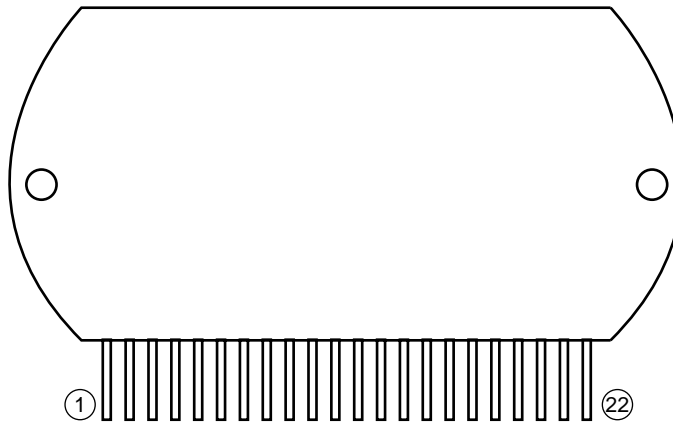
7.1.1 IC

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

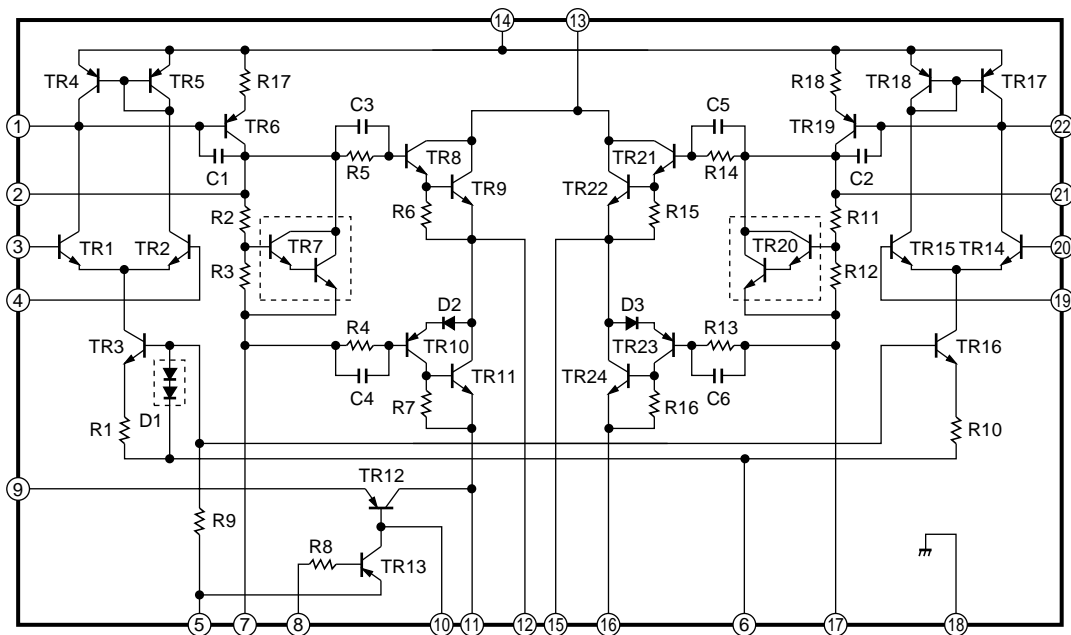
■ PAC009A (MOTHER ASSY : IC401, IC402)

- 2 ch AF Power Amplifier

●Pin Arrangement



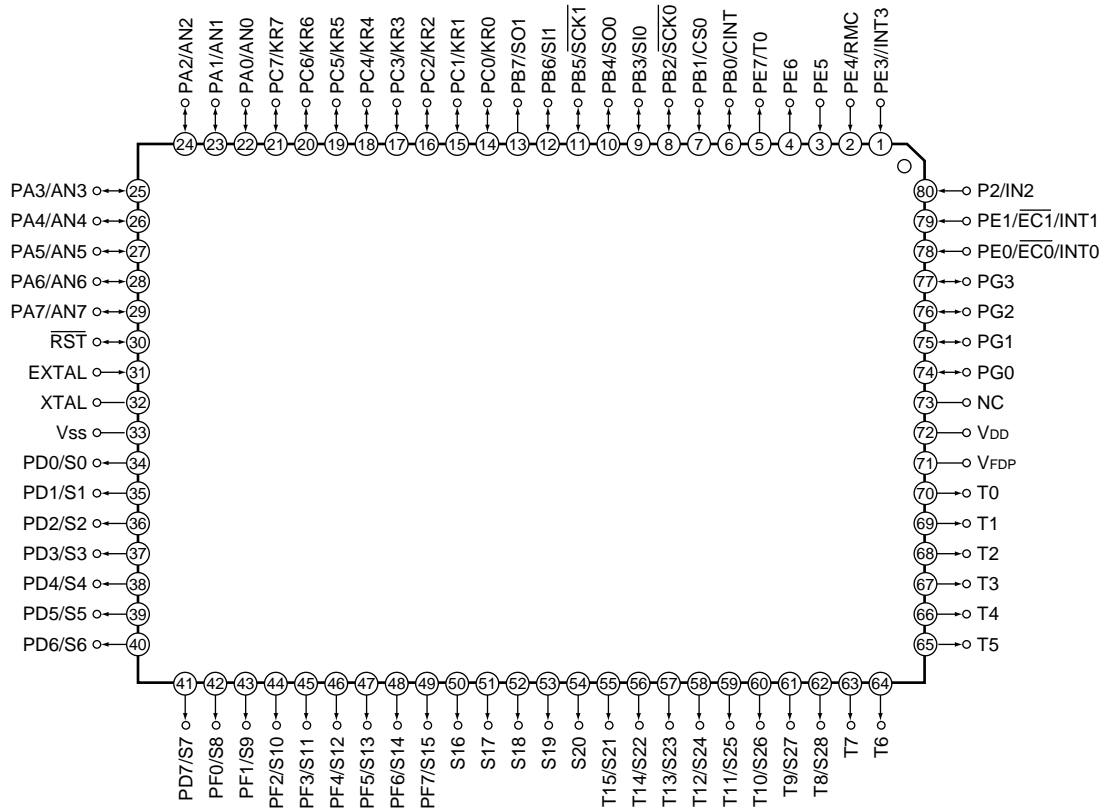
●Block Diagram



■ PDG212A (FRONT ASSY : IC501)

• Mode Control IC

• Pin Arrangement



• Pin Function

No.	Pin Name	I/O	Function Name	Function
1	PE3/INT3	I	TUNED	"L" inputs when TUNER is TUNE state. Only when IF count is right (when lighting is permitted), "TUNED" indicator in the FL can be turned on after the IF count.
2	PE4/RMC	I	REMOCON	Inputs the remote control receiver output
3	PE5	I	STEREO	When TUNER receives stereophonic broadcasting, "L" input. Ignore it at the time of forced MONO. "STEREO" indicator in the FL turned on when TUNED is "L" and STEREO is "L" at the "TUNED" indicator lighting is permitted.
4	PE6	O	FM+	ON and OFF the Transistor switch for VDD of the RDS decoder. "L" for AM and "H" for FM without relation to the FUNCTION.
5	PE7/T0	O	T. MUTE	MUTE control of the TUNER output
6	PB0/CINT	I	PLL DO	Data input from the PLL IC Read-in the IF frequency by this data. Request outputs from the microprocessor.
7	PB1/CS0	O	PLL CE	Chip enable of serial control of the TUNER PLL IC
8	PB2/SCK0	O	PLL CK	Clock of serial control of the TUNER PLL IC
9	PB3/SIO	O	PLL DA	Data of serial control of the TUNER PLL IC
10	PB4/SOO	O	AC RY	ON and OFF the transistor switch for AC power relay Stand-by : "L" , Power ON : "H"
11	PB5/SCK1	O	PROT RY	SP A SP A+B SP OFF
12	PB6/SI1	O	A+B RY	pin 12 : H H L pin 13 : L H L
13	PB7/SO1	O	NC	Not used
14	PC0/KR0	I	KEY IN1	Key scan input
15	PC1/KR1	I	KEY IN2	
16	PC2/KR2	I	KEY IN3	
17	PC3/KR3	I	D.C.DET.	DC detector input of the protection circuit When "L" is input, open relays excepting AC relay. 8-figures section of FL flashes as "POWEROFF" at "L".
18	PC4/KR4	I	O.L.DET.	
19	PC5/KR5	O	DIRECT	DSP/BYPATH At 6 ch input DIRECT MUTE pin 19 : L H L H pin 20 : L L H H
20	PC6/KR6	O	6CH RY	
21	PC7/KR7	OL	NC	Not used
22	PA0/AN0	O	FUNC. ST	Serial control strobe of the function IC (TC9163AN)
23	PA1/AN1	O	FUNC. DA	Control the Function IC and DSP IC with the serial control data

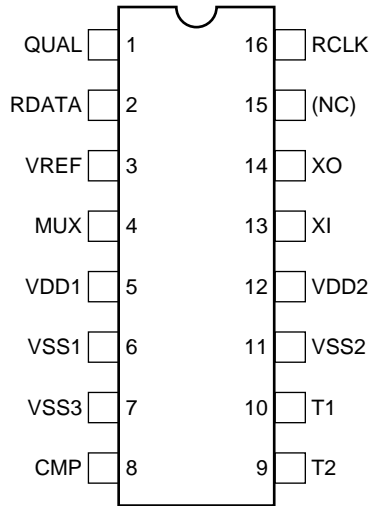
VSX-607RDS, VSX-407RDS

No.	Pin Name	I/O	Function Name	Function
24	PA2/AN2	O	FUNC. CK	Control the FUNCTION IC, DSP IC, TONE IC and E. VOL IC with the serial control clock
25	PA3/AN3	O	XLAT	Serial control latch of the DSP IC (CXD2724Q)
26	PA4/AN4	O	RESET (DSP)	Reset DSP IC (CXD2724Q)
27	PA5/AN5	I	REDY	For communicating with DSP IC (CXD2724Q) L :Inhibit the data transfer H :Permit the data transfer
28	PA6/AN6	O	TONE DA	Serial control data of TONE IC (M62420FP)
29	PA7/AN7	O	E. VOL DA	Serial control data of E. VOL IC (M62429P)
30	$\overline{\text{RST}}$	-	RST	Reset
31	EXTAL	-	EXTAL	Connect the crystal resonator (7.7MHz or 7.2MHz)
32	XTAL	-	XTAL	
33	Vss	-	Vss	Ground
34	PD0/S0	OL	NC	Not used
35	PD1/S1	O	SURROUND RY	ON and OFF the transistor switch for SURROUND relay
36	PD2/S2	O	LOUDNESS	On and OFF the transistor switch of LOUDNESS ON : Lights up "LOUDNESS" character in FL DIRECT ON : Forced OFF
37	PD3/S3	O	A. MUTE	Control the system mute control of the AUDIO system
38	PD4/S4	O	V. MUTE	Control the VIDEO IC (NJM2279D) VCR :H, DVD :H, F.V. :H, AUDIO system :L
39	PD5/S5	O	V. CONT A	Control the VIDEO IC (NJM2279D) VCR :L, DVD :L, F.V. :H, AUDIO system :L
40	PD6/S6	O	V. CONT B	Control the VIDEO IC (NJM2279D) VCR :L, DVD :H, F.V. :H, AUDIO system :L
41	PD7/S7	O	FL Seg 21	FL driver
42	PF0/S8	O	FL Seg 20	
43	PF1/S9	O	FL Seg 19	
44	PF2/S10	O	FL Seg 18	
45	PF3/S11	O	FL Seg 17/KO10	FL driver / Key scan out
46	PF4/S12	O	FL Seg 16/KO9	
47	PF5/S13	O	FL Seg 15/KO8	
48	PF6/S14	O	FL Seg 14/KO7	
49	PF7/S15	O	FL Seg 13/KO6	
50	S16	O	FL Seg 12/KO5	
51	S17	O	FL Seg 11/KO4	
52	S18	O	FL Seg 10/KO3	
53	S19	O	FL Seg 9/KO2	
54	S20	O	FL Seg 8/KO1	
55	T15/S21	O	FL Seg 7	FL driver
56	T14/S22	O	FL Seg 6	
57	T13/S23	O	FL Seg 5	
58	T12/S24	O	FL Seg 4	
59	T11/S25	O	FL Seg 3	
60	T10/S26	O	FL Seg 2	
61	T9/S27	O	FL Seg 1	FL driver
62	T8/S28	O	FL Grid. 9	
63	T7	O	FL Grid. 8	
64	T6	O	FL Grid. 7	
65	T5	O	FL Grid. 6	
66	T4	O	FL Grid. 5	
67	T3	O	FL Grid. 4	
68	T2	O	FL Grid. 3	
69	T1	O	FL Grid. 2	
70	T0	O	FL Grid. 1	
71	VFDP	-	VFDP	Power supply
72	VDD	-	5V	Power supply
73	NC	-	5V	Power supply
74	PG0	O	VOL. DOWN	Motor volume control VOL DOWN : L
75	PG1	O	VOL. UP	Motor volume control VOL UP : L
76	PG2	OL	NC	Not used
77	PG3	OL	NC	Not used
78	PE0/ $\overline{\text{EC0}}$ /INT0	I	WAKE UP	AC wake up input
79	PE1/ $\overline{\text{EC1}}$ /INT1	I	RDS CK	Serial control CLK of RDS communication
80	PE2/IN2	I	RDS DA	Serial control DATA of RDS communication

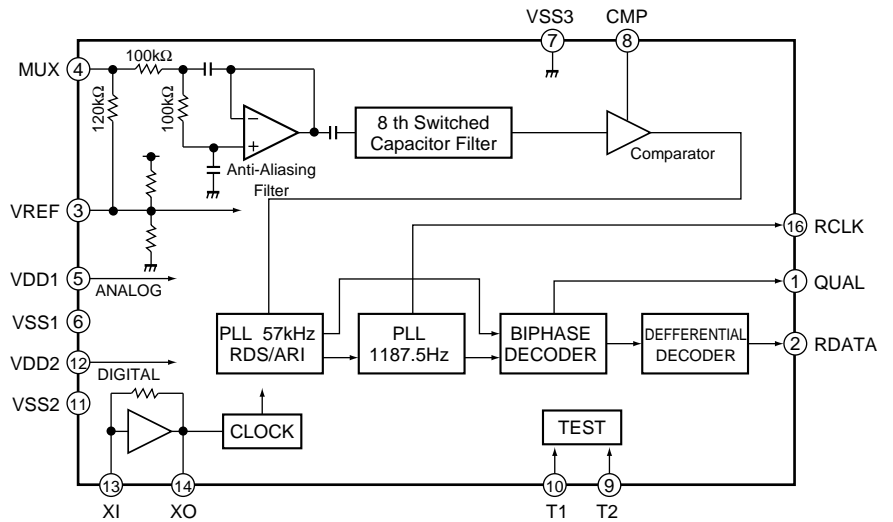
■ BU1923 (FRONT ASSY : IC581)

• Radio Data System (RDS) Demodulation IC

● Pin Arrangement



● Block Diagram



● Pin Function

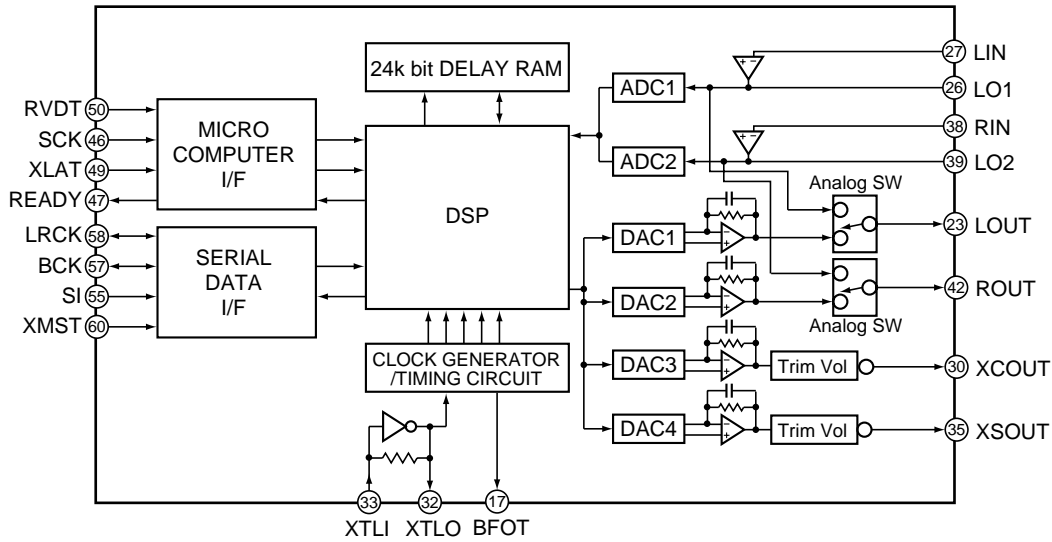
No.	Pin Name	Function	No.	Pin Name	Function
1	QUAL	Demodulation quality fine data :H , error data :L	9	T2	Test input H : stops the internal clock , L or open : movements
2	RDATA	Demodulation data	10	T1	Test input Open or connect to GND.
3	VREF	Reference power supply (1/2 VDD1)	11	VSS2	Digital power supply (4.5V to 5.5V)
4	MUX	Composite signal input	12	VDD2	Connect the crystal resonator (4.332MHz)
5	VDD1	Analog power supply (4.5V to 5.5V)	13	XI	
6	VSS1		14	XO	
7	VSS3		15	(NC)	Non connection
8	CMP	Comparator	16	RCLK	Demodulation clock (1187.5kHz)

VSX-607RDS, VSX-407RDS

■ CXD2724Q (VOLUME DSP ASSY : IC201)

• DSP IC

●Block Diagram



●Pin Function

No.	Pin Name	I/O	Function
1-3	T.P	O	Monitor pin for test Normally, outputs "L".
4	VSS0	-	Digital ground
5-8	T.P	O	Monitor pin for test Normally, outputs "L".
9	TST0	I	Test pin Normally, fix to L.
10	VDD0	-	Digital power supply
11	VSS1	-	Digital ground
12	TST1	I	Test pin Normally, fix to "L".
13	TST2	I	Test pin Normally, fix to "L".
14	TST3	I	Test pin Normally, fix to "L".
15	TST4	I	Test pin Normally, fix to "L".
16	XRST	I	System reset input L : reset.
17	BFOT	O	Clock and divided frequency output (384/768/256/512 fs)
18	CSL1	I	Test pin Normally, fix to "H".
19	CSL2	I	Test pin Normally, fix to "L".
20	VSS2	-	Digital ground
21	AVS3	-	Ground for L-ch D/A converter
22	AVD3	-	Power supply for L-ch D/A converter
23	LOUT	O	L-ch A/D converter output
24	AVD1	-	Power supply for L-ch A/D converter
25	AVS1	-	Ground for L-ch A/D converter
26	LO1	O	OP amp. inverting output for LPF of L-ch A/D converter
27	LIN	I	Analog input of L-ch A/D converter
28	AVD5	-	Power supply for C-ch D/A converter
29	AVS5	-	Ground for C-ch D/A converter
30	XCOUT	O	C-ch D/A converter output
31	AVDX	-	Analog power supply for master clock
32	XTLO	O	Crystal oscillation circuit output

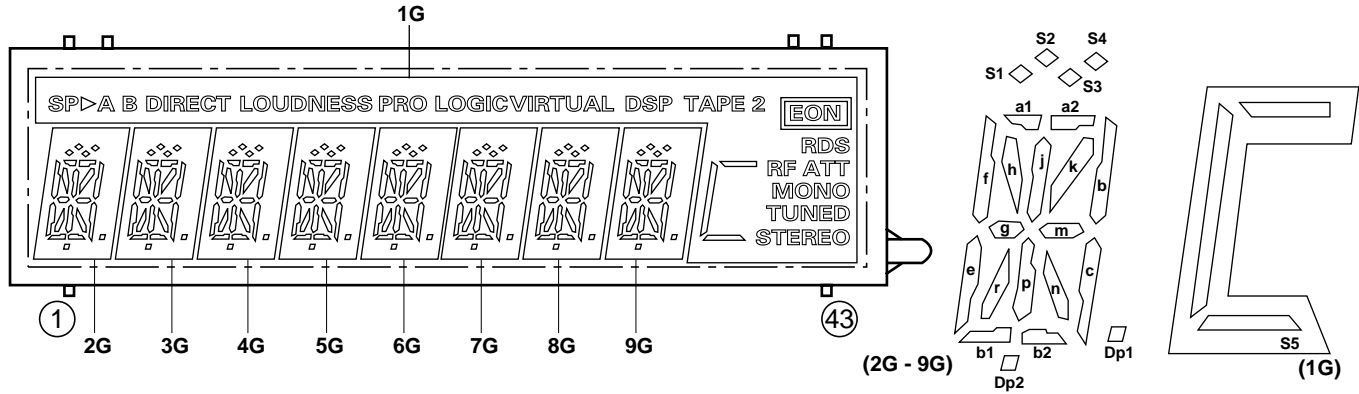
No.	Pin Name	I/O	Function
33	XTLI	I	Crystal oscillation circuit input
34	AVSX	–	Analog ground for master clock
35	XSOUT	O	S-ch D/A converter output
36	AVS6	–	Ground for S-ch D/A converter
37	AVD6	–	Power supply for S-ch D/A converter
38	RIN	I	Analog input of R-ch A/D converter
39	LO2	O	OP amp. inverting output for LPF of R-ch A/D converter
40	AVS2	–	Ground for R-ch A/D converter
41	AVD2	–	Power supply for R-ch A/D converter
42	ROUT	O	R-ch D/A converter output
43	AVD4	–	Power supply for R-ch D/A converter
44	AVS4	–	Ground for R-ch D/A converter
45	VSS3	–	Digital ground
46	SCK	I	Shift clock input of microprocessor interface
47	REDY	O	Transfer permission signal output of microprocessor interface L : Transfer prohibition
48	T.P	–	Monitor pin for test Normally, outputs "Hi-Z".
49	XLAT	I	Latch input of microprocessor interface
50	RVDT	I	Data input of microprocessor interface
51	XS24	I	24/32 bit slot selection of serial data L : 24 bit slot (It is effective at slave mode.)
52	VDD1	–	Digital power supply
53	VSS4	–	Digital ground
54	T.P	–	Monitor pin for test Normally, outputs "L".
55	SI	I	Serial data input of 1 sampling 2 channel
56	T.P	–	Input pin for test Normally, outputs "L".
57	BCK	I/O	Serial bit transfer clock of serial input/output data SI and SO
58	LRCK	I/O	Sampling frequency clock of serial input/output data SI and SO
59	VSS5	–	Digital ground
60	XMST	I	Master/slave mode switching input of BCK and LRCK L : master mode
61-63	T.P	O	Monitor pin for test Normally, outputs "L".
64	VSS6	–	Digital ground
65-72	T.P	O	Monitor pin for test Normally, outputs "L".
73	VDD2	–	Digital power supply
74	VSS7	–	Digital ground
75-80	T.P	O	Monitor pin for test Normally, outputs "L".

VSX-607RDS, VSX-407RDS

7.1.2 DISPLAY

■ AAV7053 (FRONT ASSY : V501)

• FL TUBE



● ANODE AND GRID ASSIGNMENT

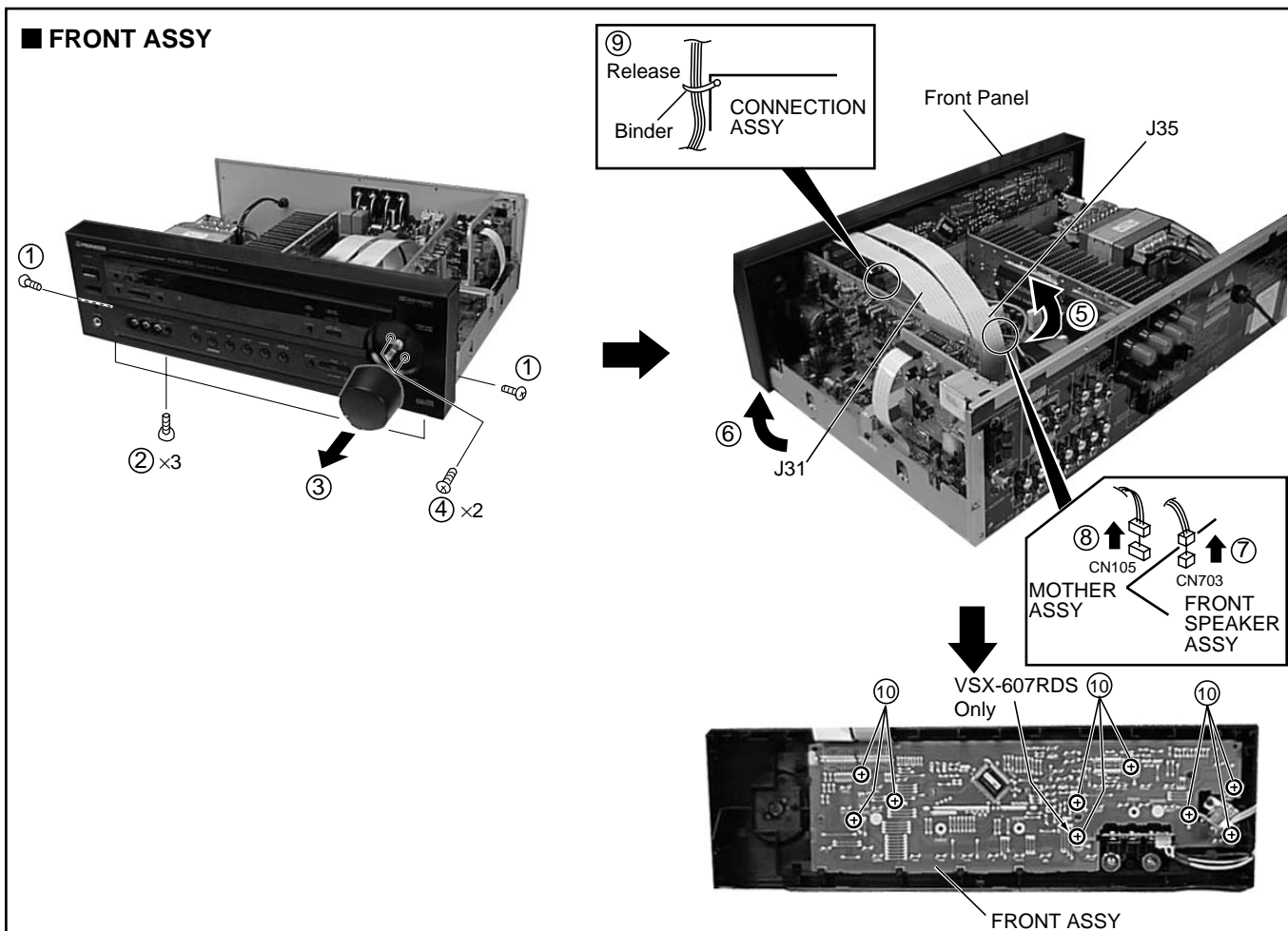
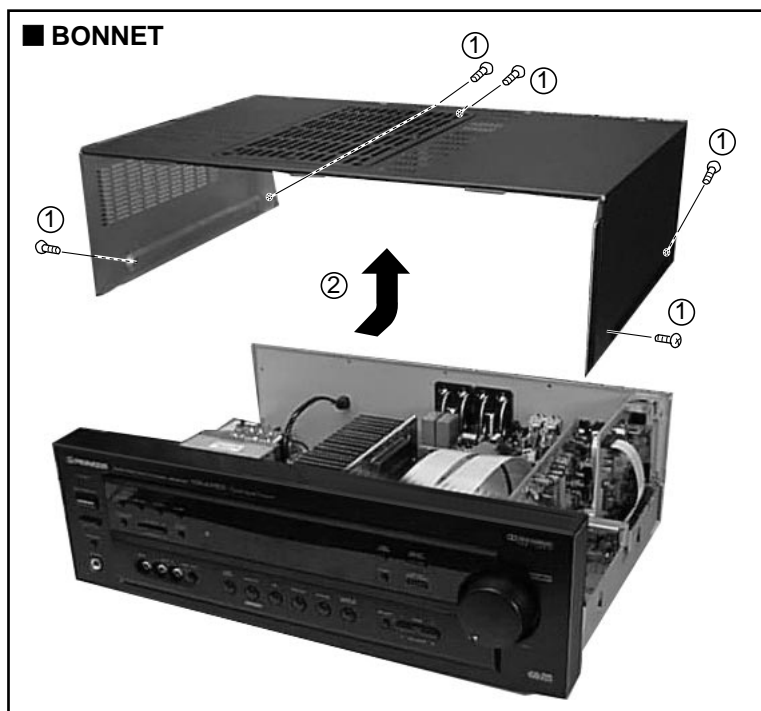
	1G	2G	3G	4G	5G	6G	7G	8G	9G
P1	SP▷	a1	a1	a1	a1	a1	a1	a1	a1
P2	A	a2	a2	a2	a2	a2	a2	a2	a2
P3	B	h	h	h	h	h	h	h	h
P4	DIRECT	j	j	j	j	j	j	j	j
P5	LOUDNESS	k	k	k	k	k	k	k	k
P6	PRO LOGIC	b	b	b	b	b	b	b	b
P7	VIRTUAL	f	f	f	f	f	f	f	f
P8	DSP	m	m	m	m	m	m	m	m
P9	TAPE 2	g	g	g	g	g	g	g	g
P10	EON	c	c	c	c	c	c	c	c
P11	RDS	e	e	e	e	e	e	e	e
P12	S5	r	r	r	r	r	r	r	r
P13	RF ATT	p	p	p	p	p	p	p	p
P14	MONO	n	n	n	n	n	n	n	n
P15	TUNED	d1	d1	d1	d1	d1	d1	d1	d1
P16	STEREO	d2	d2	d2	d2	d2	d2	d2	d2
P17	—	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1
P18	—	S1, S3	S1, S3	S1, S3	S1, S3	S1, S3	S1, S3	S1, S3	S1, S3
P19	—	S4	S4	S4	S4	S4	S4	S4	S4
P20	—	S2	S2	S2	S2	S2	S2	S2	S2
P21	—	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2

● PIN ASSIGNMENT

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

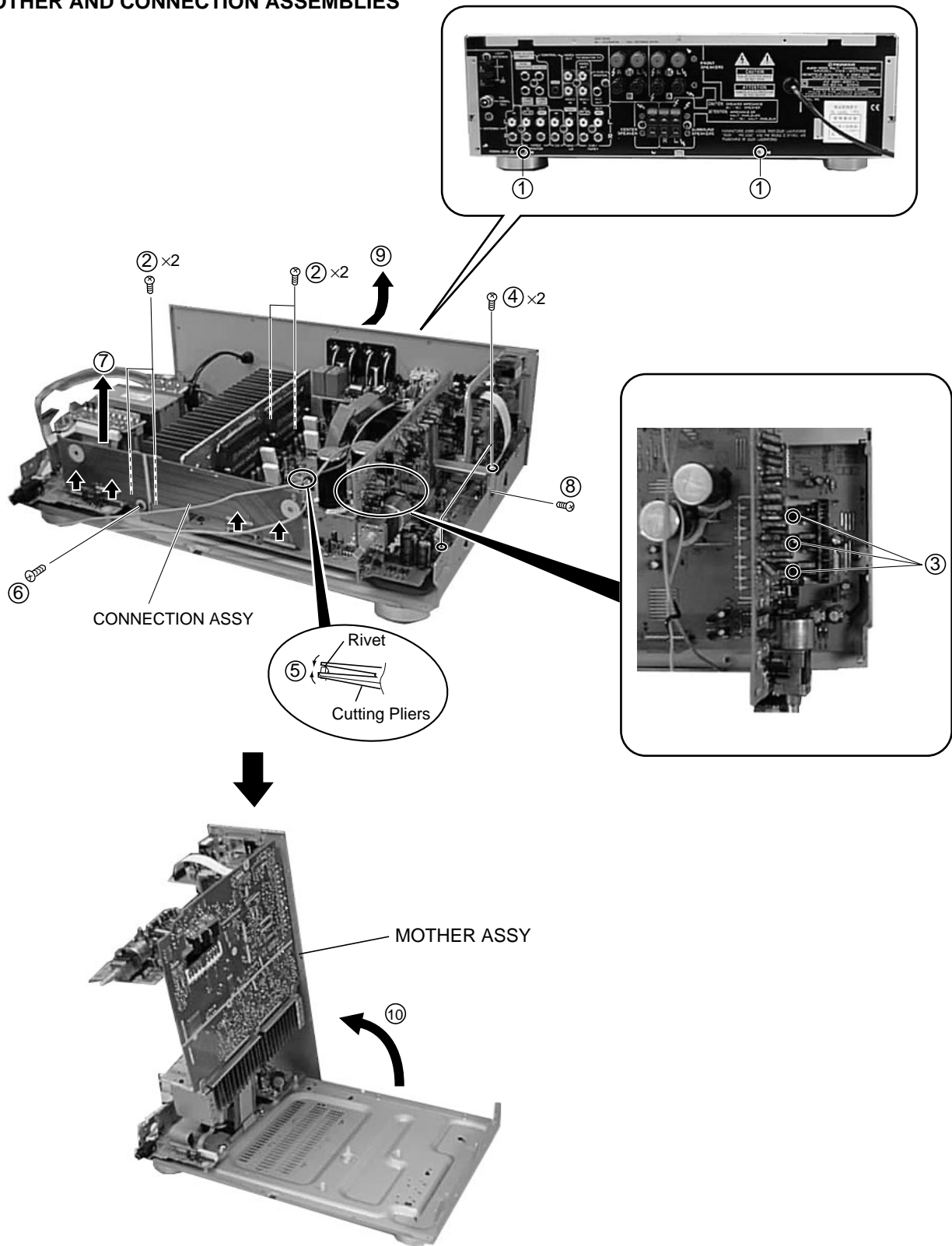
7.2 DISASSEMBLY

7.2.1 Bonnet and FRONT Assy



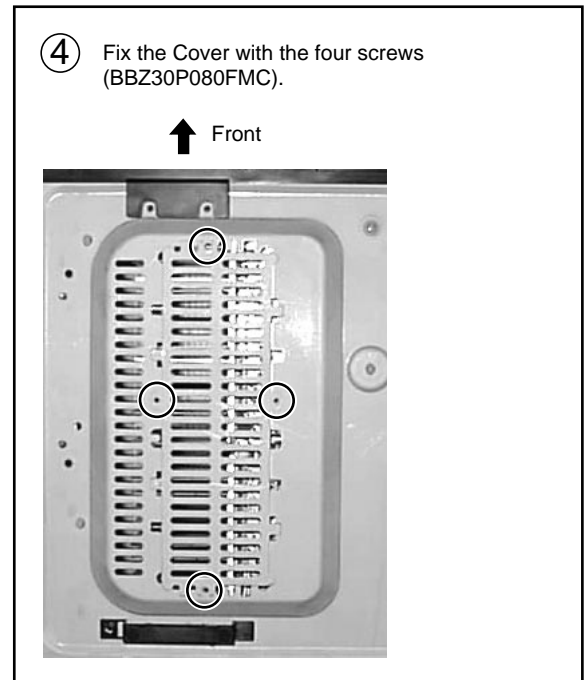
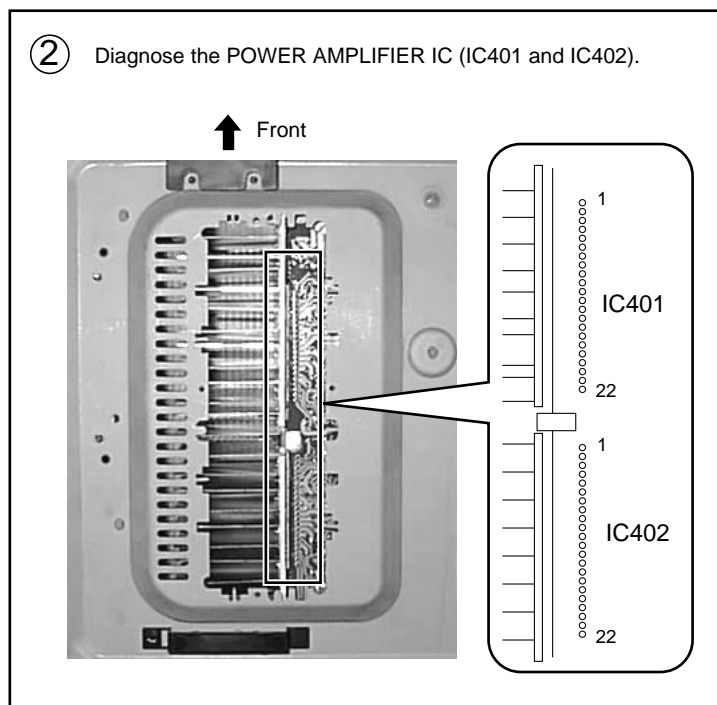
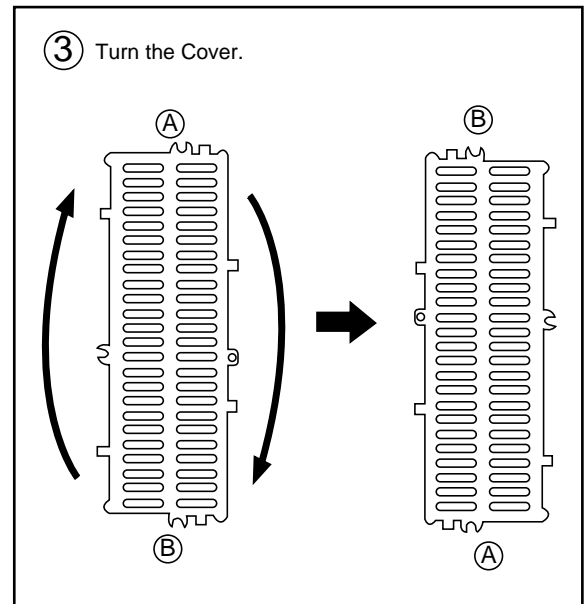
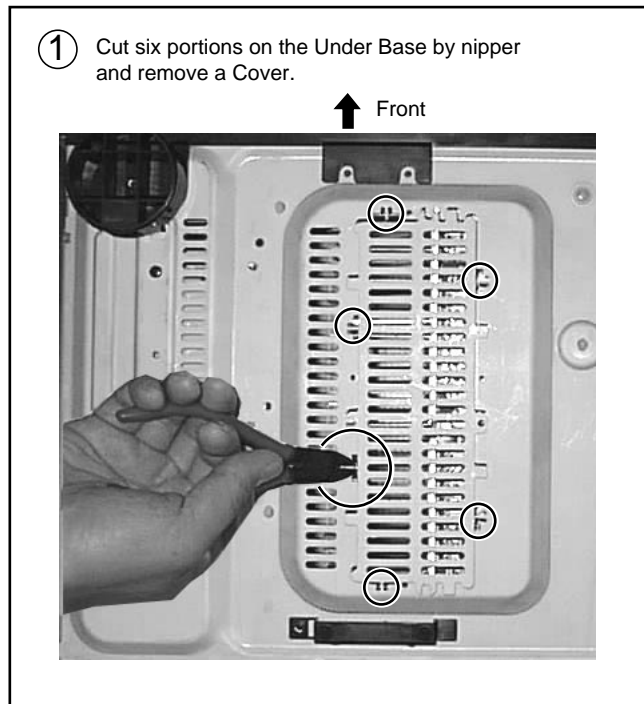
7.2.2 MOTHER and CONNECTION Assemblies

■ MOTHER AND CONNECTION ASSEMBLIES



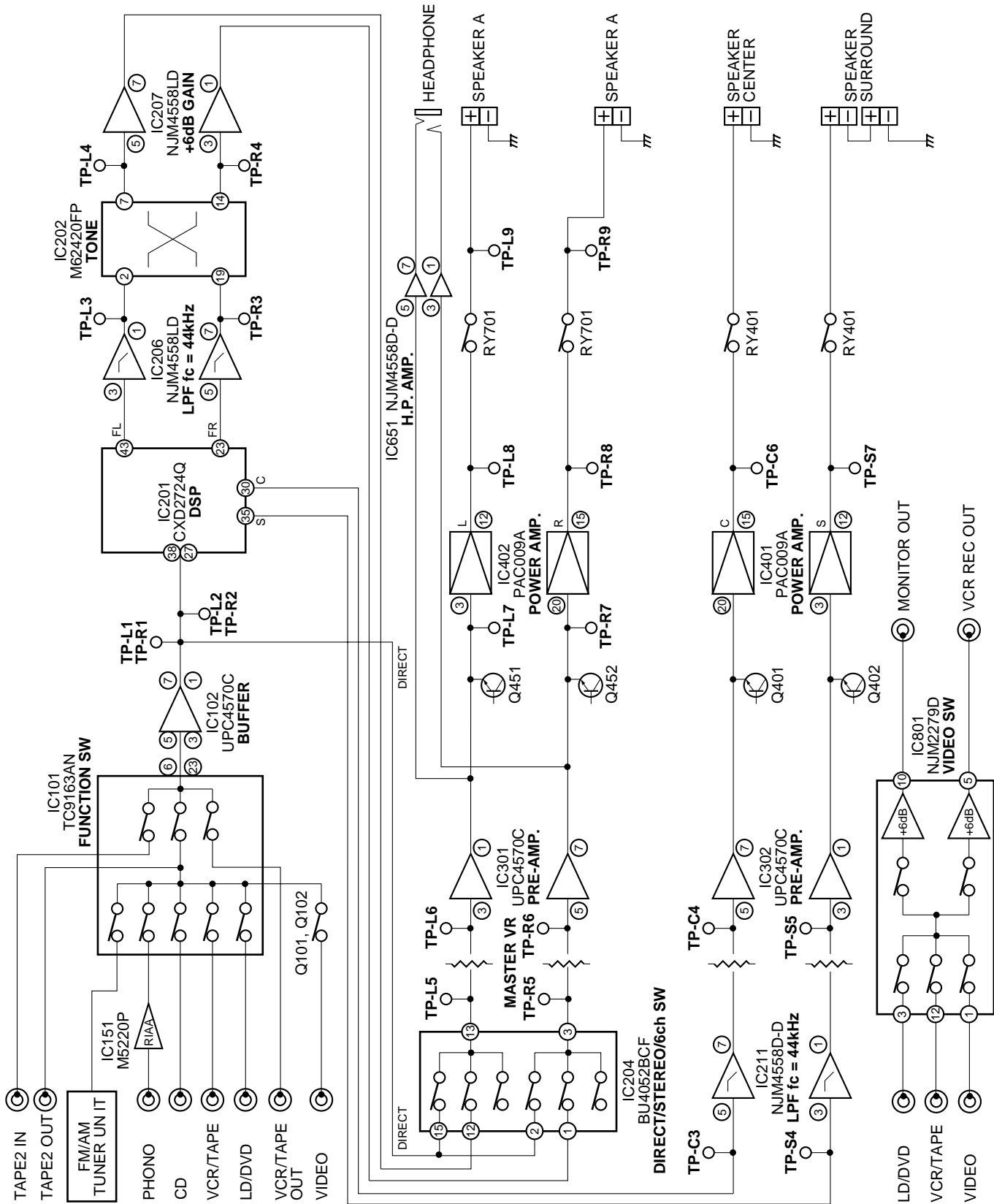
7.3 DIAGNOSIS

■ POWER AMPLIFIER IC (MOTHER ASSY : IC401 and IC402) (At Bottom Side)



CAUTION :
After cutting it with the nipper, dispose of it not to injure by touching the cut part to an user's hand.

7.4 BLOCK DIAGRAM



● Test Points for Diagnosis

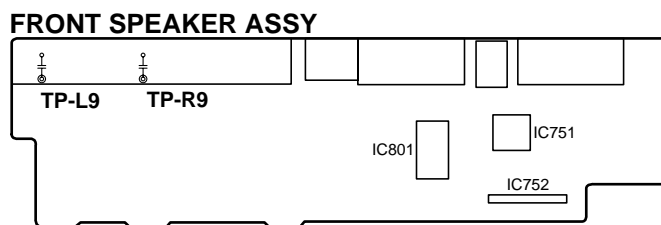
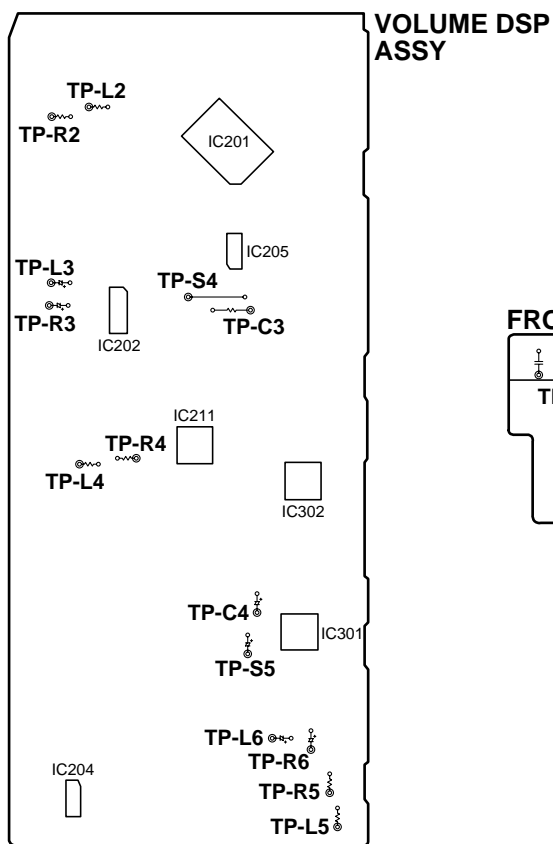
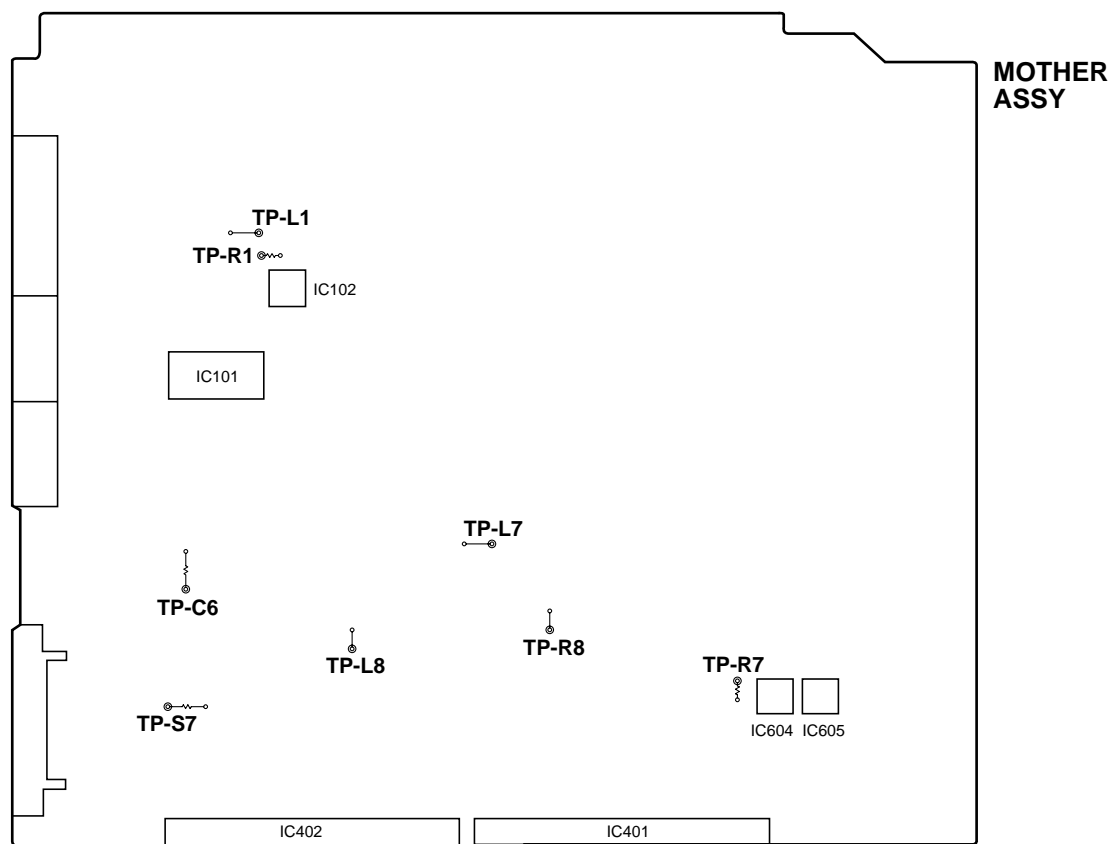
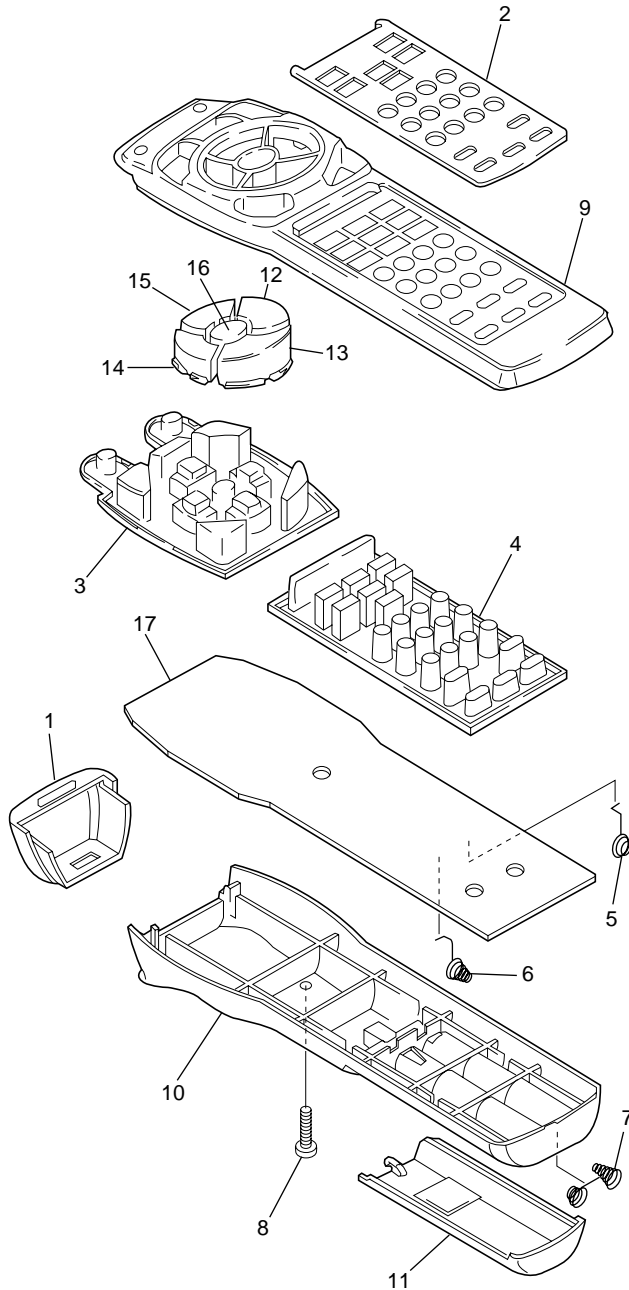


Fig.1 Test Point Location

7.5 REMOTE CONTROL UNIT [CU-VSX131 (AXD7169)] (VSX-607RDS ONLY)

7.5.1 EXPLODED VIEWS AND PARTS LIST

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

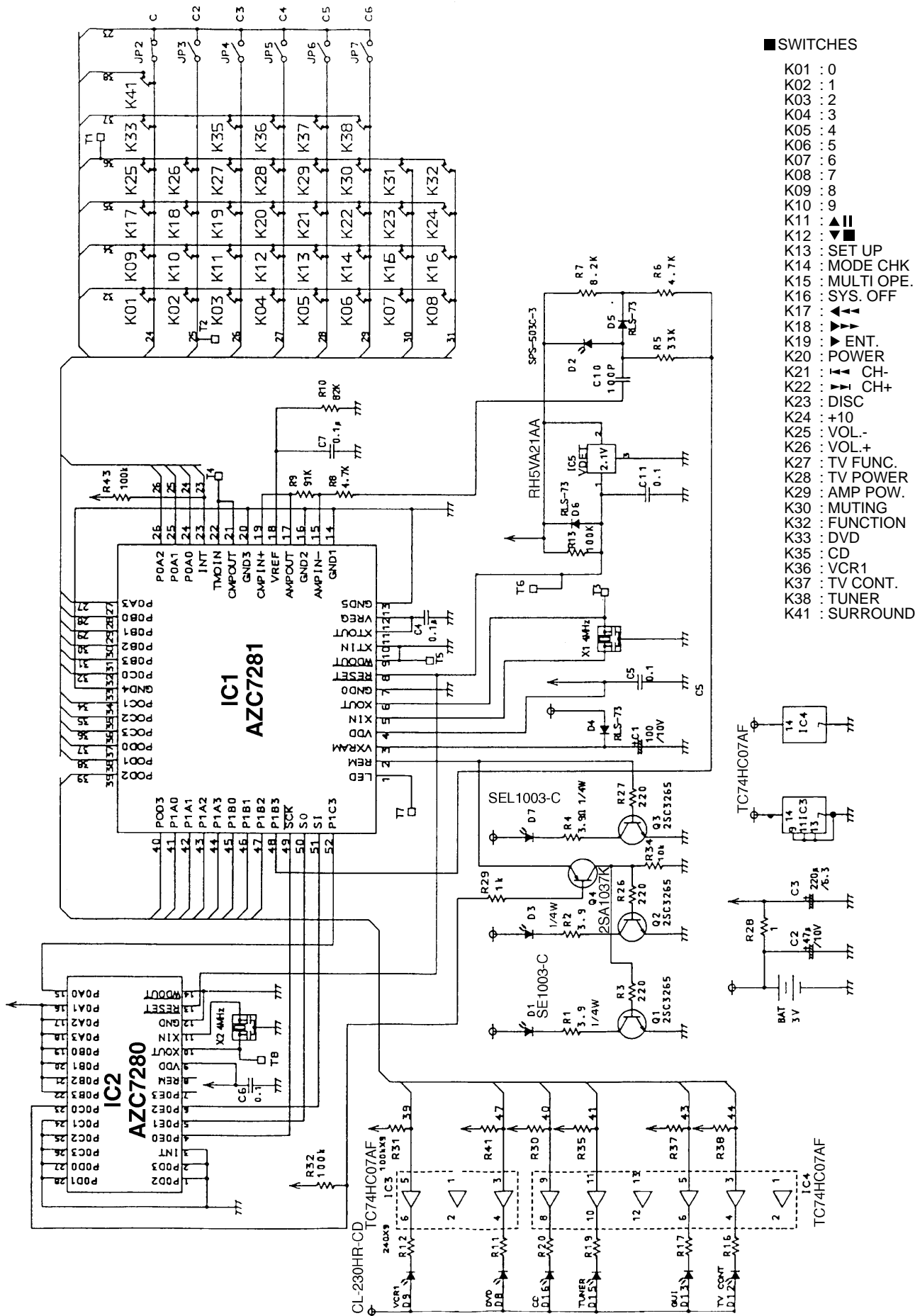


● Parts List

Mark	No.	Description	Part No.
	1	Filter	AZA7152
	2	Name Plate	AZA7301
	3	Rubber Sheet (A)	AZA7289
	4	Rubber Sheet (B)	AZA7300
	5	Spring (+)	AZB7049
	6	Spring (-)	AZB7050
	7	Spring	AZB7051
	8	Screw	AZB7052
	9	Remo-con Case (A)	AZN7712
	10	Remo-con Case (B)	AZN7326
	11	Battery Cover	AZN7327
	12	Main Key (FF)	AZN7666
	13	Main Key (STOP)	AZN7329
	14	Main Key (REV)	AZN7665
	15	Main Key (PAUSE)	AZN7331
	16	Main Key (PLAY)	AZN7664
NSP	17	PCB	AZW7243

7.5.2 SCHEMATIC DIAGRAM

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



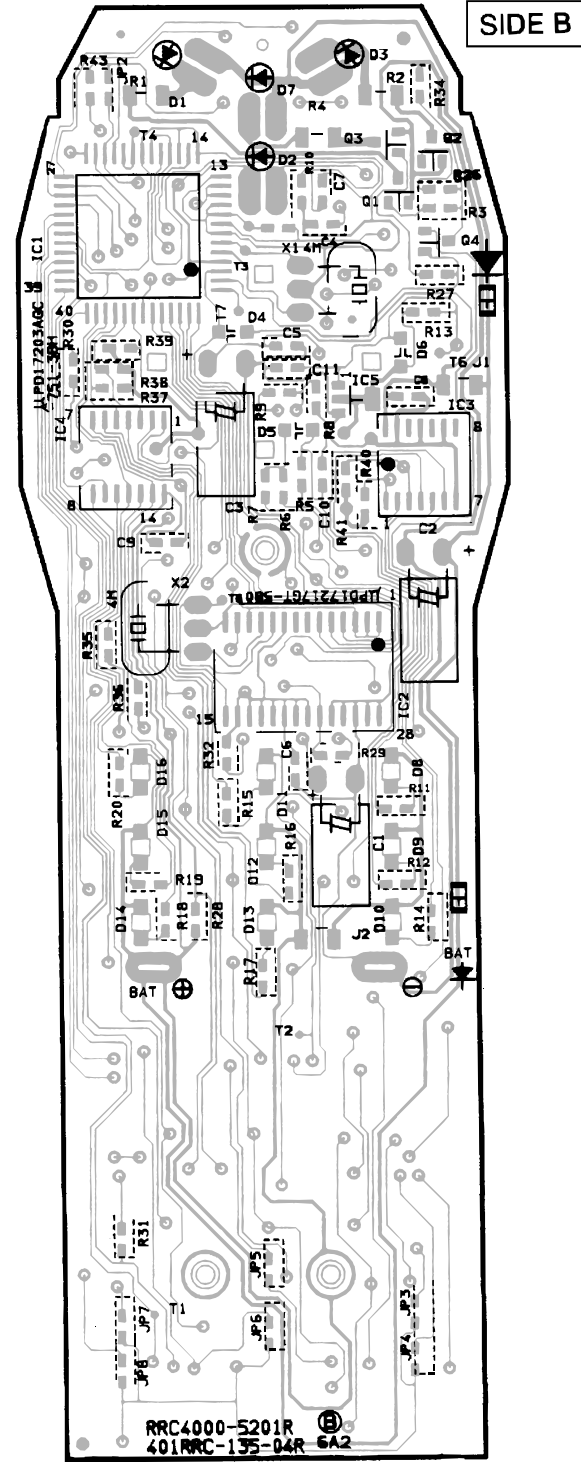
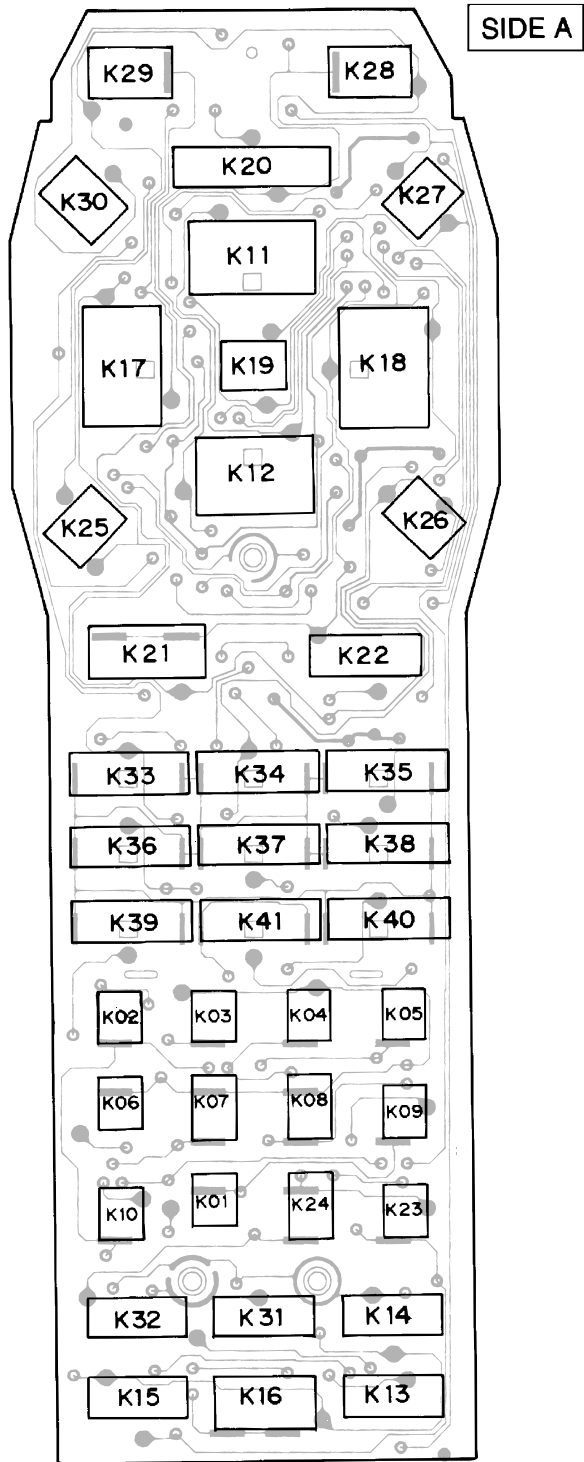
7.5.3 PCB DIAGRAM

A

B

C

D



7.5.4 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	→	56×10^1	→	561	RD1/4PU	5	6	1	J
47k Ω	→	47×10^3	→	473	RD1/4PU	4	7	3	J
0.5 Ω	→	R50			RN2H	R	5	0	K
1 Ω	→	1R0			RS1P	1	R	0	K

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

5.62k Ω	→	562×10^1	→	5621	RN1/4PC	5	6	2	1	F
----------------	---	-------------------	---	------------	---------	---	---	---	---	---

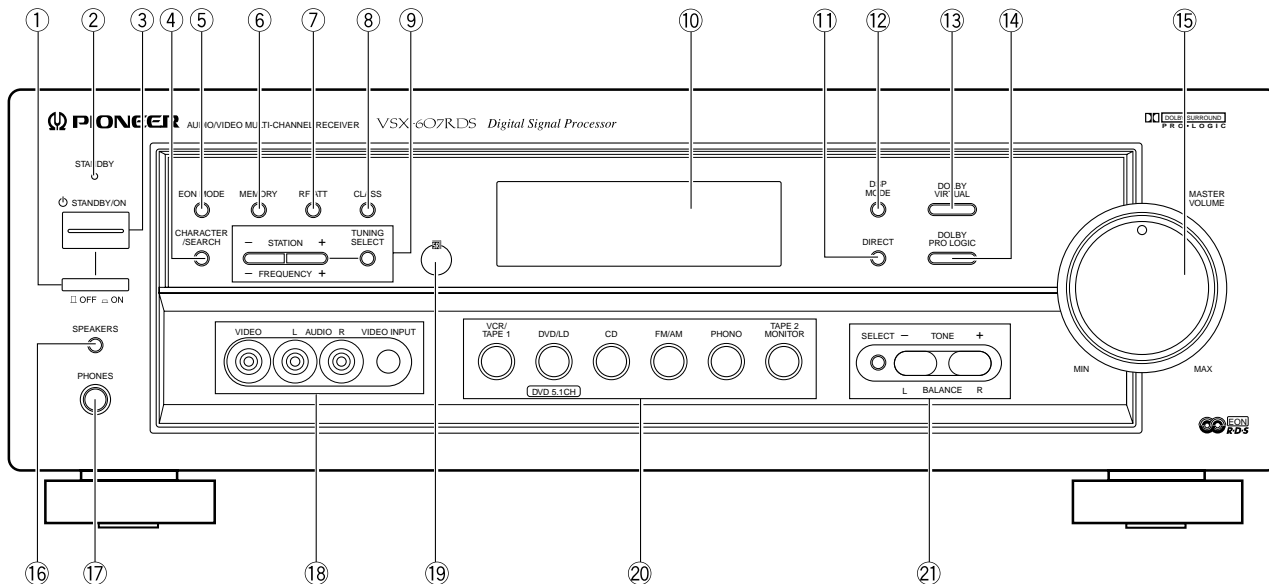
Mark No.	Description	Part No.
SEMICONDUCTORS		
IC1		AZC7281
IC2		AZC7280
IC3,IC4		TC74HC07AF
IC5		RH5VA21AA
Q4		2SA1037K
Q1-Q3		2SC3265
D1,D3,D7		SE1003-C
D2		SPS-503C-3
D8,D9,D12,D13,D15,D16		CL-230HR-CD
D4-D6		RLS-73
CAPACITORS		
C2		CEJA470M10
C4-C7,C11		CKSQYB104K25
C3		CEJA221M6R3
C1		CEJA101M6R3
C10		CCSQCH101J50
RESISTORS		
R2001,R2002		RS1/8S0R0J
R1,R2,R4		RS1/8S3R9J
Other Resistors		RS1/10S J
OTHERS		
X1,X2	CERAMIC RESONATOR	KBR-4.0M (4MHz)

8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

Front Panel

The size of characters in the figure may differ from that on the actual product.



① **Power switch**

② **STANDBY indicator**

③ **STANDBY/ON button**

④ **CHARACTER/SEARCH button**

⑤ **EON MODE button**

⑥ **MEMORY button**

⑦ **RF ATT button**

Set this button to on when receiving strong FM signals (nearby stations) to reduce sound distortion.

Normally, this button should be set off. This button does not affect AM reception.

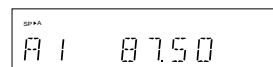
⑧ **CLASS button**

⑨ **TUNING SELECT, STATION (-, +) and FREQUENCY (-, +) buttons**

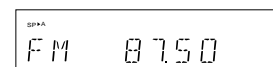
TUNING SELECT:

Use to select the STATION mode and FREQUENCY mode when operating the tuner.

STATION mode:



FREQUENCY mode:



STATION (-, +):

Use to select the station number when operating the tuner.

FREQUENCY (-, +):

Use to select the frequency when operating the tuner.

⑩ **Display**

⑪ **DIRECT button**

Use to play back sound without going through the tone and balance control circuits. DOLBY PRO LOGIC, DSP MODE, DOLBY VIRTUAL and LOUDNESS also turn off.

⑫ **DSP MODE button**

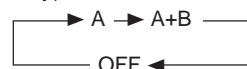
⑬ **DOLBY VIRTUAL button**

⑭ **DOLBY PRO LOGIC button**

⑮ **MASTER VOLUME**

⑯ **SPEAKERS button**

Switches as follows with each press (FRONT SPEAKER only).



⑰ **PHONES jack (Headphone terminal)**

⑱ **VIDEO INPUT button/terminals**

Connect to a video camera, etc. Press the VIDEO INPUT button to switch the function to VIDEO.

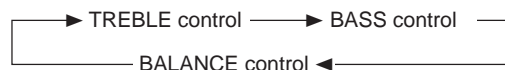
⑲ **Remote sensor**

⑳ **Function buttons**

㉑ **SELECT, TONE (-, +) and BALANCE (L, R) buttons**

SELECT:

Use to select the TONE (TREBLE, BASS) and BALANCE control.



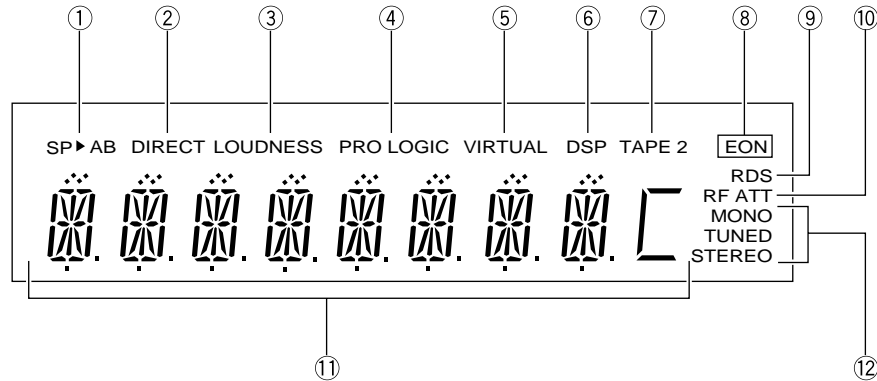
TONE (-, +):

Use to adjust tone.

BALANCE (L, R):

Use to adjust volume balance.

■ Display



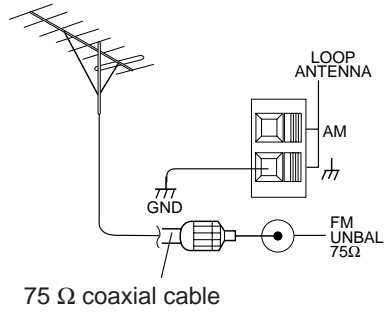
- ① **SPEAKERS A, B indicator**
The indicator of the FRONT SPEAKER (A, A and B) selected will light.
- ② **DIRECT indicator**
Lights when DIRECT is ON.
- ③ **LOUDNESS indicator**
Lights when LOUDNESS is ON.
- ④ **PRO LOGIC indicator**
Lights when Dolby Pro Logic is selected.
- ⑤ **VIRTUAL indicator**
Lights when DOLBY VIRTUAL is selected.
- ⑥ **DSP indicator**
Lights when HALL, JAZZ, DANCE, THEATER 1 and THEATER 2 has been selected with the DSP MODE button.
- ⑦ **TAPE 2 indicator**
Lights when TAPE 2 MONITOR is ON.

- ⑧ **EON MODE indicator**
Lights when EON MODE is ON.
- ⑨ **RDS indicator**
Lights when RDS broadcast is received.
- ⑩ **RF ATT indicator**
- ⑪ **CHARACTER display**
- ⑫ **TUNER indicator**
MONO:
Lights when the monaural mode is set using the MPX MODE button.
TUNED:
Lights when broadcasts are being received.
STEREO:
Lights when stereo broadcasts are received during auto stereo mode.

■ Connecting Devices

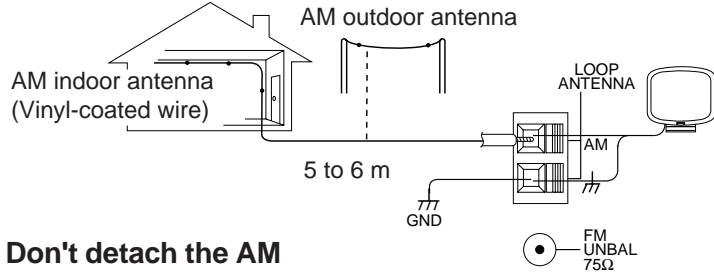
When connecting or changing equipment, be sure to turn OFF the POWER switch, and disconnect the power cord from the wall outlet.

■ For better reception of signals, use the FM external antenna.

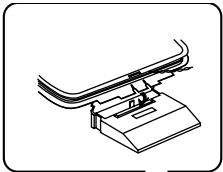


■ When AM broadcast reception is poor

Connect a 5 to 6 meter long vinyl-coated wire to the AM antenna. If possible draw horizontally outdoors to achieve better reception.



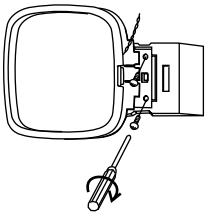
■ Assembling the AM loop antenna



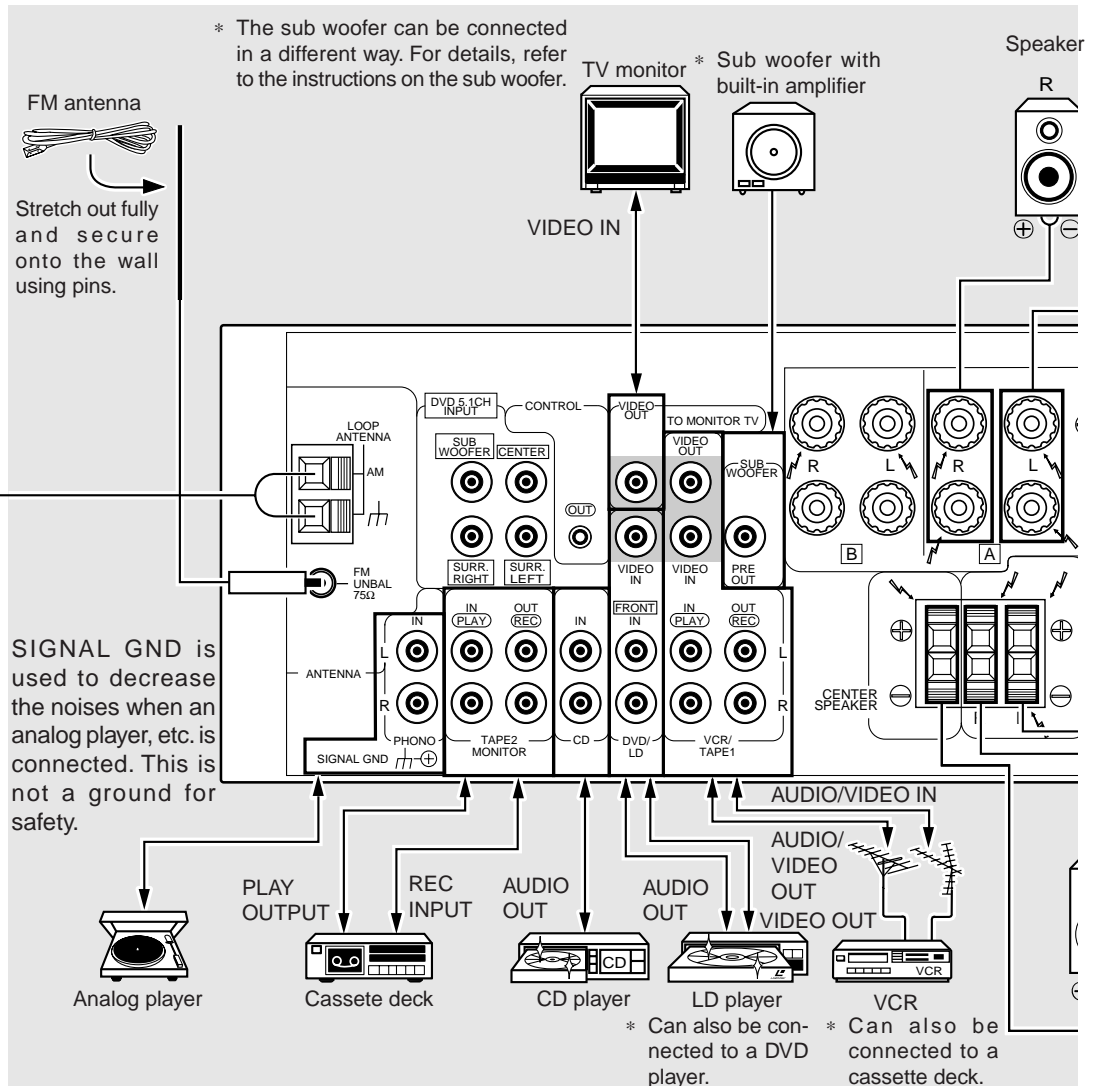
FM antenna

Stretch out fully and secure onto the wall using pins.

■ When attached on a wall, etc.

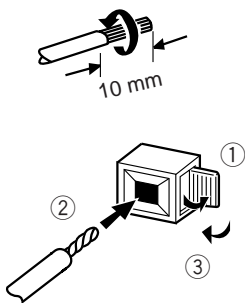


Face towards the direction with the best reception.

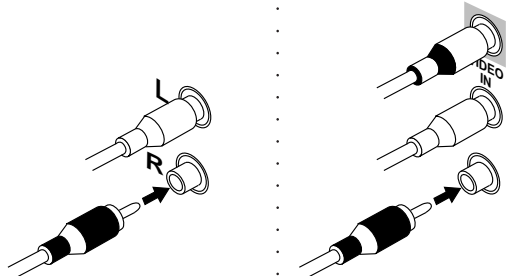


AM Antenna terminal

Twist the wire core.



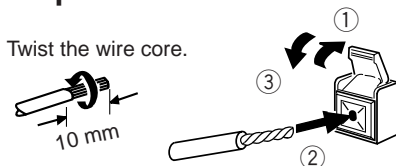
Input/output plug



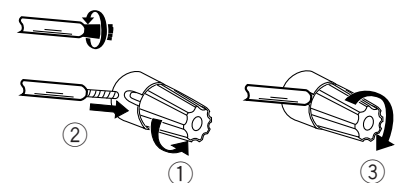
Connect the white plug to L, red plug to R, and yellow plug to VIDEO. Be sure to insert completely.

Speaker terminal

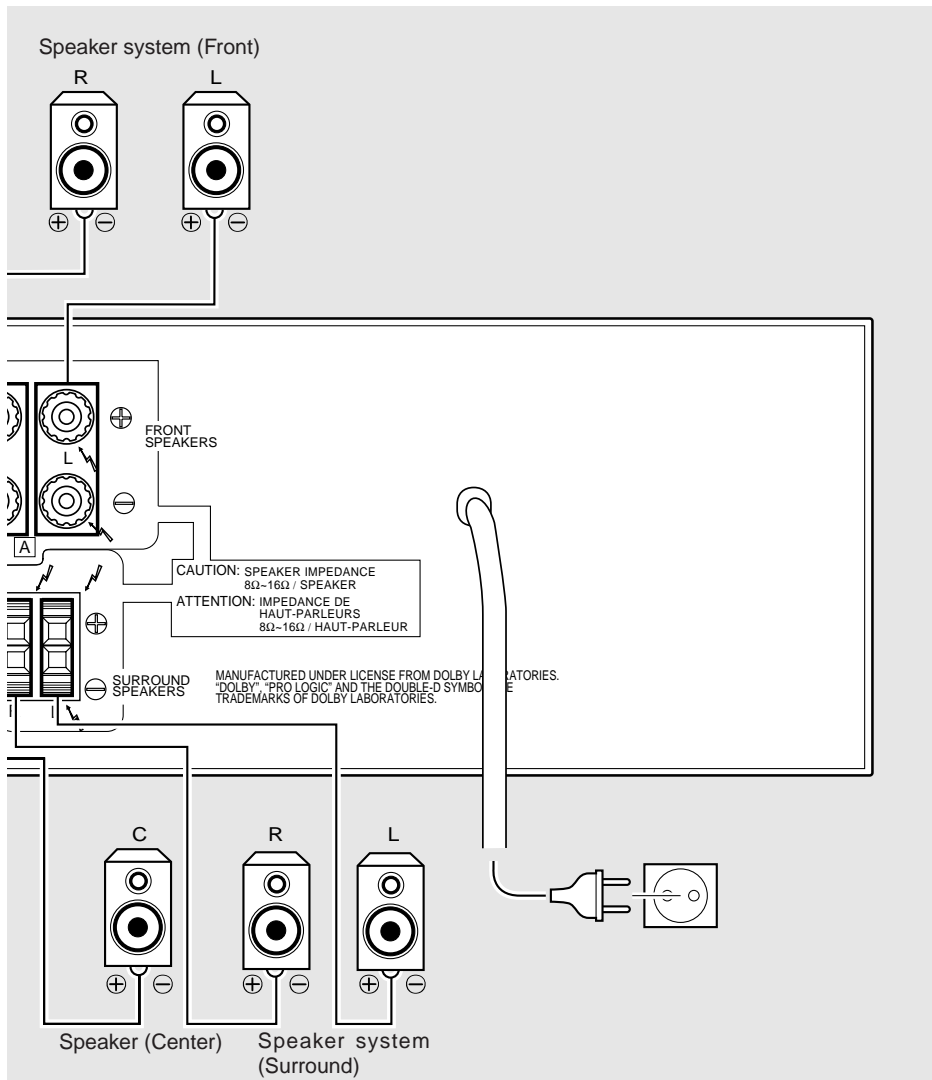
Twist the wire core.



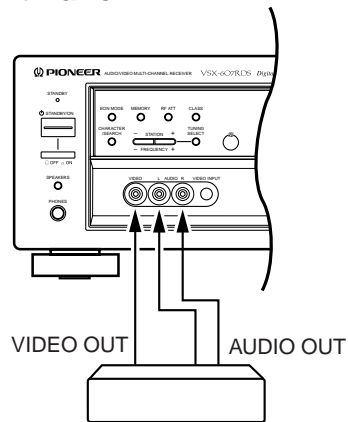
Twist the wire core.



The size of characters and terminal positions in the figures may differ from those on the actual product.



Front Panel



Connect to equipment such as a video camera, etc.



Use nominal impedances ranging from 8 Ω to 16 Ω for the speaker system.

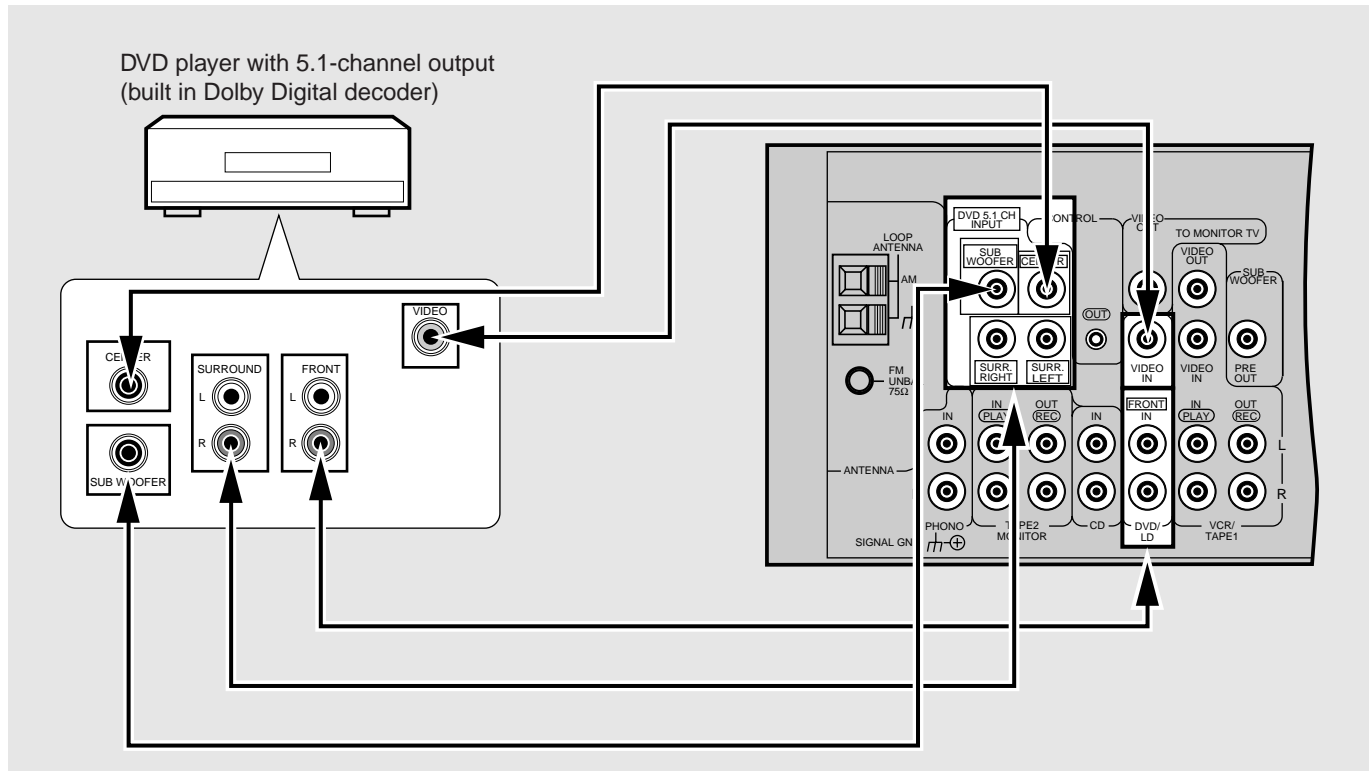
■ DVD 5.1-Channel Input Terminals

When using DVD/LD functions, the unit supports both 2-channel and 5.1-channel input. When the 5.1-channel mode is selected, SURROUND L, R, CENTER and SUB WOOFER terminal are enabled, thus allowing the connection of a Dolby Digital decoder or DVD player with 5.1-channel output.

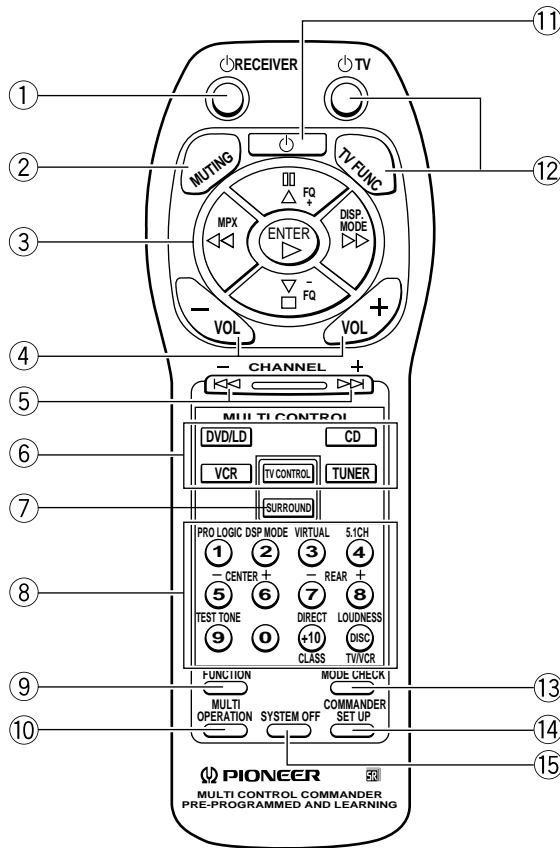


- 5.1-channel inputs are supported only during use of the DVD/LD function.
- Other functions cannot be used with 5.1-channel input.

[Connection Example]



Remote Control Unit



- ① **RECEIVER power button**
- ② **MUTING button**
Press to mute the volume.
- ③ **[When set to SURROUND (OPERATIONS)]**
△, ▽, ◀, ▶ (Select/Adjust) buttons
[When set to other than SURROUND (OPERATIONS)]
⏸ (Pause), □ (Stop), ◀◀ (Rewind), ▶▶ (Fast Forward), ENTER/▶ (Play) buttons
[Tuner Operations]
FQ +, FQ -, MPX, DISP. MODE, ▶ (FM/AM) buttons
MPX: Use to switch the auto stereo/monaural mode for receiving FM broadcasts. When the received broadcast signal is weak, press this button to set the monaural mode.
- ④ **VOL (-, +) buttons**
- ⑤ **[TV Operations]**
Selects the TV broadcast channel.
[Tuner Operations]
Select the Tuner station.
[CD, LD, DVD Operations]
◀◀, ▶▶ (Chapter/Track Search) buttons.

- ⑥ **MULTI CONTROL function buttons**
Used to set and operate the MULTI CONTROL, and switch the function.
TV CONTROL: Press to operate TV.
- ⑦ **SURROUND button**
Press when performing surround operations.
- ⑧ **Number/surround setting buttons**
[When set to SURROUND (OPERATIONS)]
PRO LOGIC: Switches the DOLBY PRO LOGIC.
DSP MODE: Switches the surround effects.
VIRTUAL: Turns the DOLBY VIRTUAL ON/OFF.
5.1CH: Use to set the DVD 5.1-channel input mode.
CENTER -, +: Adjusts the center level.
REAR -, +: Adjusts the rear (surround) level.
TEST TONE: When turned ON (while in DOLBY PRO LOGIC or DVD 5.1-channel input mode), volume balance adjustment signals are output in order from the speakers and can be adjusted.
DIRECT: Use to playback sound without going through the tone and balance control circuits. DOLBY PRO LOGIC, DSP MODE, DOLBY VIRTUAL and LOUDNESS also turn off.
LOUDNESS: When LOUDNESS is turned ON at a small volume, the low frequency and high frequency levels increase, enabling the sound to be easier to hear.
[Tuner Operations]
Number buttons: Use for setting the frequency value when the station call is selected or during direct access.
CLASS: Switches the CLASS (A/B/C).
DISC: Use to set the Direct Access mode.
[VCR operations]
Number buttons: Use to select the channel of the TV tuner in the VCR.
TV/VCR: Switches between TV/VCR.
[CD Operations]
DISC: Use to select the DISC number.
- ⑨ **FUNCTION button**
Switches the function.
- ⑩ **MULTI OPERATION button**
Use to operate the multi operation.
- ⑪ **(Power) button**
Turns ON/OFF the power of devices other than this unit.
- ⑫ **TV buttons**
- ⑬ **MODE CHECK button**
- ⑭ **COMMANDER SET UP button**
Use to control and learn operations of other manufacturers' equipment, and set multi operation functions.
- ⑮ **SYSTEM OFF button**
Use to turn OFF the power of all equipment connected to the main unit.

8.2 SPECIFICATIONS

Amplifier Section

Continuous rated power output of 65 watts* per channel, min., at 8 ohms, from 40 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

Continuous Power Output

(DIN, 1 kHz, T.H.D. 1 %, 8 Ω)

STEREO	Front	70 W + 70 W
SURROUND	Front	50 W + 50 W
	Center	50 W
	Rear	50 W

Input (Sensitivity/Impedance)

PHONO MM	2.8 mV/47 kΩ
CD, VCR/TAPE 1, TAPE 2, DVD/LD, VIDEO	200 mV/47 kΩ

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

PHONO MM	90 mV
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Frequency Response*

PHONO MM	20 Hz to 20,000 Hz ± 0.5 dB
CD, VCR/TAPE 1, TAPE 2, DVD/LD, VIDEO	5 Hz to 100,000 Hz ⁺⁰ ₋₃ dB

Output (Level/Impedance)

VCR/TAPE 1 REC, TAPE 2 REC	200 mV/1 kΩ
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Tone Control

BASS	± 8 dB (150 Hz)
TREBLE	± 8 dB (10 kHz)
LOUDNESS	+8 dB/+6 dB (100 Hz/10 kHz)

Signal-to-Noise Ratio [DIN (Rated power output/50 mW)]*

PHONO MM	68 dB/61 dB
CD, VCR/TAPE 1, TAPE 2, DVD/LD, VIDEO	86 dB/63 dB

* Direct: ON

** Measured by Audio Spectrum Analyzer.

VIDEO Section

Input (Sensitivity/Impedance)

VCR/TAPE 1, DVD/LD, VIDEO	1 Vp-p/75 Ω
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Output (Level/Impedance)

VCR/TAPE 1, REC, MONITOR TV	1 Vp-p/75 Ω
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Frequency Response

VCR/TAPE 1, DVD/LD, VIDEO	
→ MONITOR	5 Hz to 7 MHz ⁺⁰ ₋₃ dB

Signal-to-Noise Ratio

	55 dB
--	-------

Cross Talk

	55 dB
--	-------

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 15.2 dBf, IHF (1.5 μV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf
	Stereo: 41.2 dBf

Signal-to-Noise Ratio	Mono: 76 dB (at 85 dBf)
	Stereo: 72 dB (at 85 dBf)

Distortion

	Stereo: 0.6 % (1kHz)
--	----------------------

Alternate Channel Selectivity

	70 dB (400 kHz)
--	-----------------

Stereo Separation

	40 dB (1 kHz)
--	---------------

Frequency Response

	30 Hz to 15 kHz (± 1) dB
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Antenna Input

	75 Ω unbalanced
--	-----------------

Sensitivity (DIN)

	Mono: 1.1 μV (S/N 26 dB)
	Stereo: 50 μV (S/N 46 dB)

Signal-to-Noise Ratio (DIN)

	Mono: 62 dB
	Stereo: 58 dB

Antenna

	Loop antenna
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Miscellaneous

Power Requirements

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

	170 W
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Dimensions

	420 (W) × 143 (H) × 334 (D) mm
--	--------------------------------

Weight (without package)

	6.7 kg
--	--------

Furnished Parts

FM Antenna

	1
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AM Loop Antenna

	1
--	---

Dry Cell Batteries [size "AA" (IEC LR6)]

	2
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Remote Control Unit

	1
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Operating Instructions

	1
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Warranty card



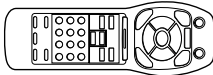
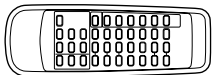
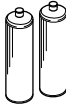
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NOTE:

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

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Accessories

 FM antenna ADH7005	 AM loop antenna ATB7009	
 (VSX-607RDS) Remote control unit AXD7169(CU-VSX131)	 (VSX-407RDS) Remote control unit AXD7162(CU-VSX130)	 Alkaline dry cell battery (size "AA" IEC LR6) x 2 : VSX-607RDS Dry cell battery (size "AA" IEC R6P) x 2 : VSX-407RDS