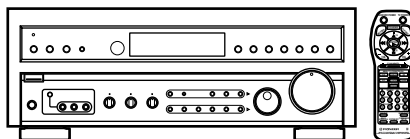


# Service Manual

**PIONEER**  
The Art of Entertainment



ORDER NO.  
RRV1897

## AUDIO/VIDEO MULTI-CHANNEL RECEIVER VSX-D607S

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-D607S		
KUXJI	○	AC120V	_____
KCXJI	○	AC120V	_____
SDXJI	○	AC110V/120-127V/220V/240V	With the voltage selector

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# 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.

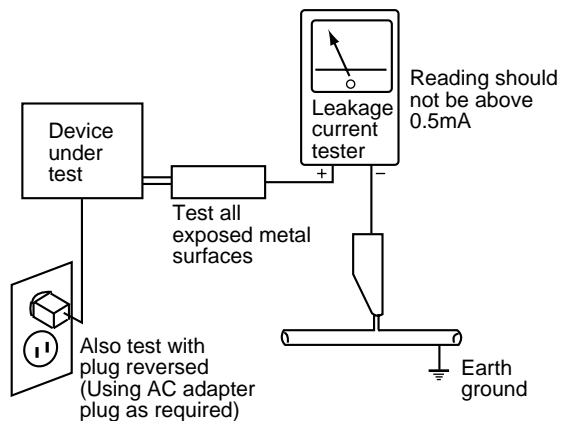
## (FOR USA MODEL ONLY)

### 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  $\Delta$  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

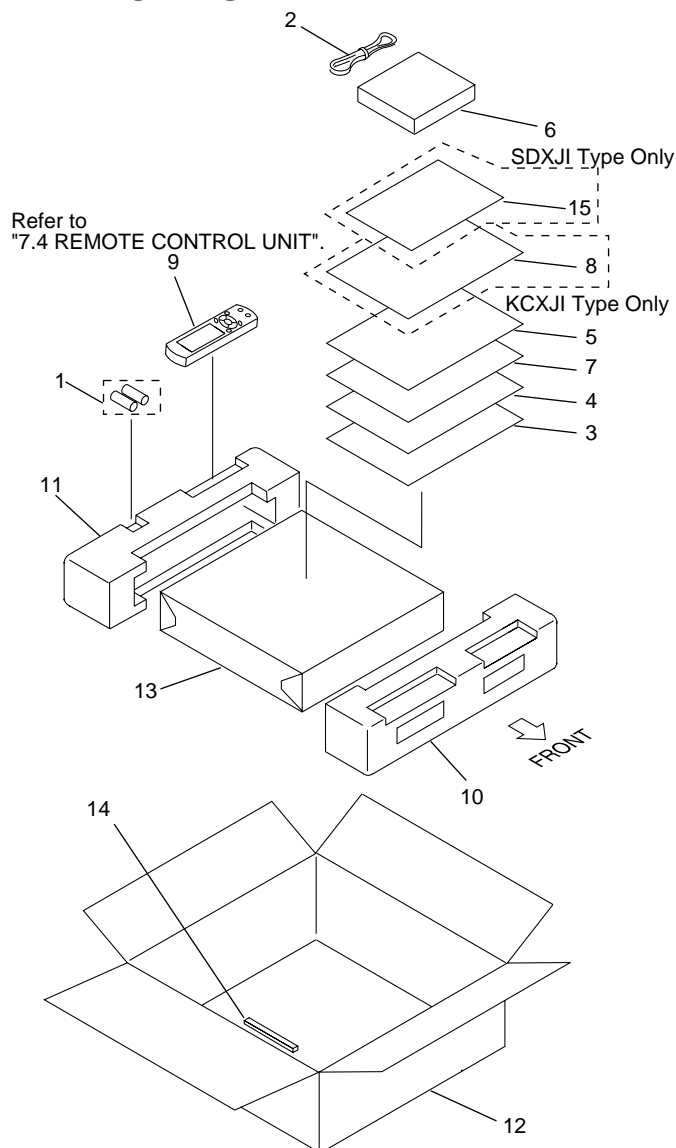
NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

● The  $\Delta$  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.

### 2.1 PACKING



#### (1) PACKING PARTS LIST

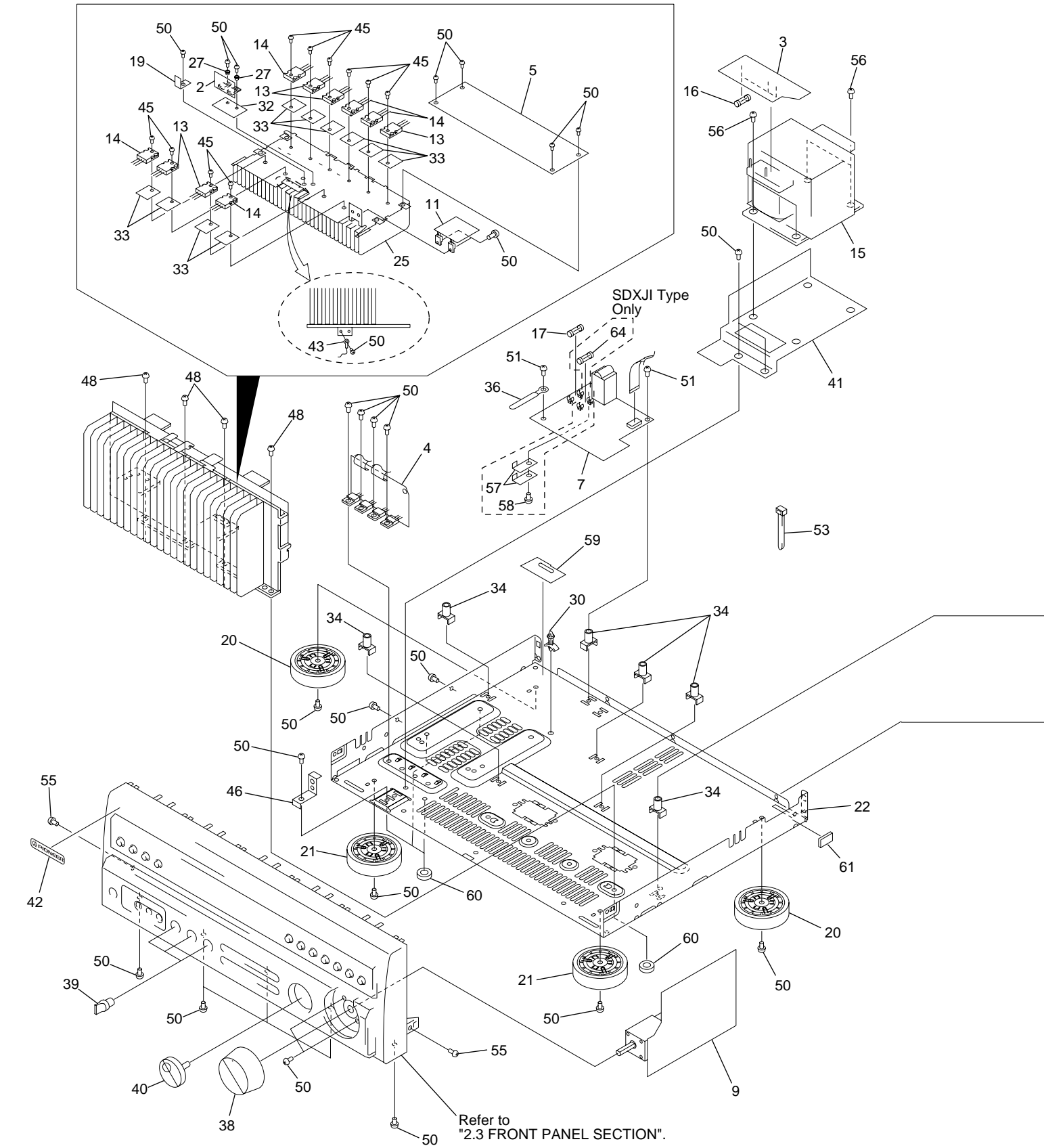
Mark	No.	Description	Part No.
NSP	1	Dry Cell Battery (LR6,AA)	AEX1007
	2	FM Antenna	ADH7004
	3	Operating Instructions	See Contrast table (2)
	4	Sub Instruction Manual (Remote Control Unit)(English)	ARH7015
NSP	5	Warranty Card	See Contrast table (2)
	6	AM Loop Antenna	ATB7009
	7	Sub Instruction Manual (AC-3) (English)	ARH7030
	8	Operating Instructions (French)	See Contrast table (2)
	9	Remote Control Unit (CU-VSX128)	AXD7153
	10	Front Pad	AHA7137
	11	Rear Pad	AHA7140
	12	Packing Case	See Contrast table (2)
	13	Packing Sheet	AHG7010
	14	Sub Pad B	AHB7027
	15	Caution 220V Label	See Contrast table (2)

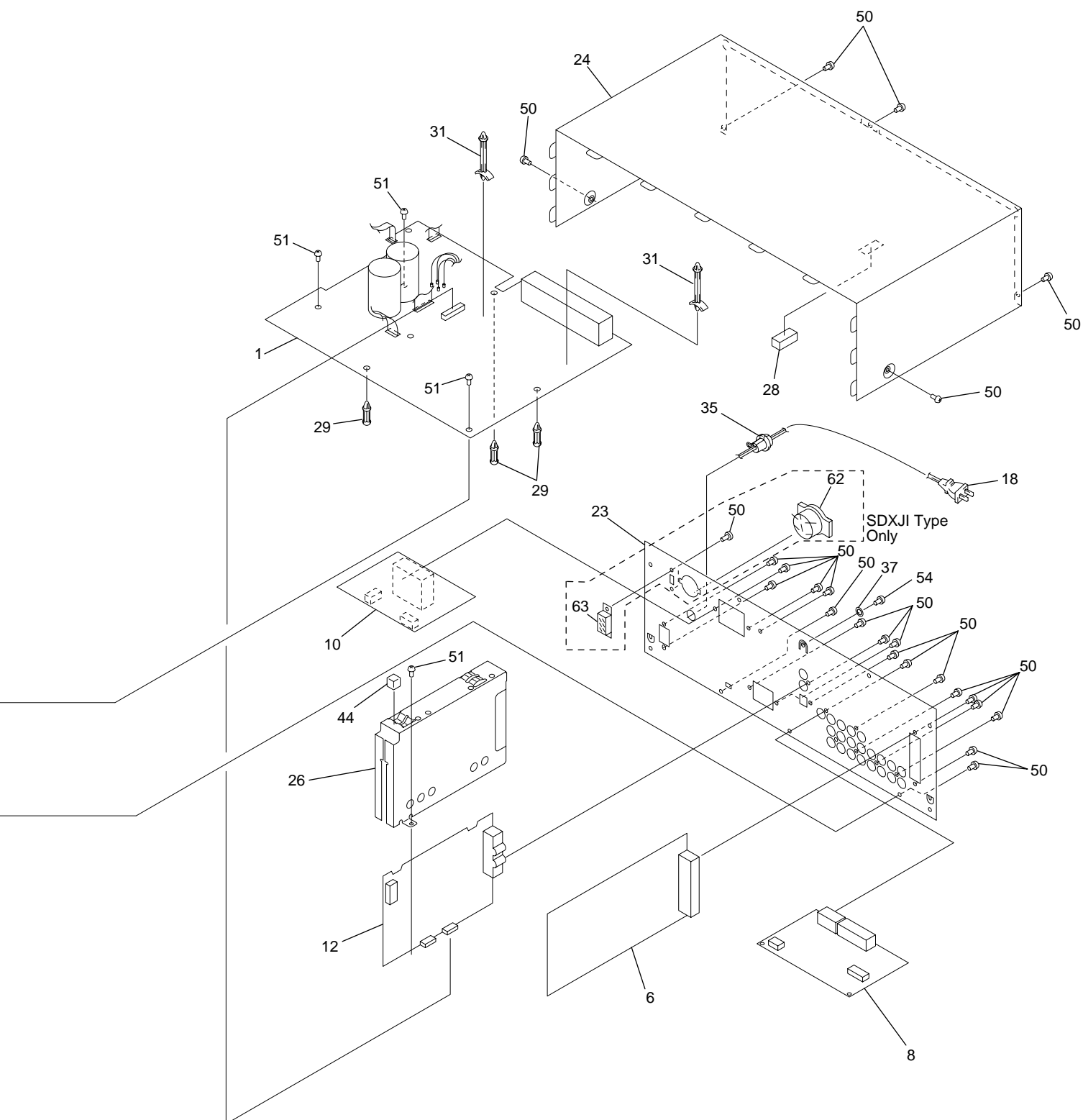
#### (2) CONTRAST TABLE

VSX-D607S/KUXJI, KCXJI and SDXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			VSX-D607S /KUXJI	VSX-D607S /KCXJI	VSX-D607S /SDXJI	
NSP	3	Operating Instructions (English)	ARB7140	ARB7140	Not used	
	3	Operating Instructions (English/Chinese/Spanish)	Not used	Not used	ARE7155	
	5	Warranty Card	ARY1051	ARY1075	ARY1077	
	8	Operating Instructions (French)	Not used	ARC7189	Not used	
	12	Packing Case	AHD7570	AHD7570	AHD7571	
	15	Caution 220V Label	Not used	Not used	ARR1003	

2.2 EXTERIOR





## (1) EXTERIOR PARTS LIST

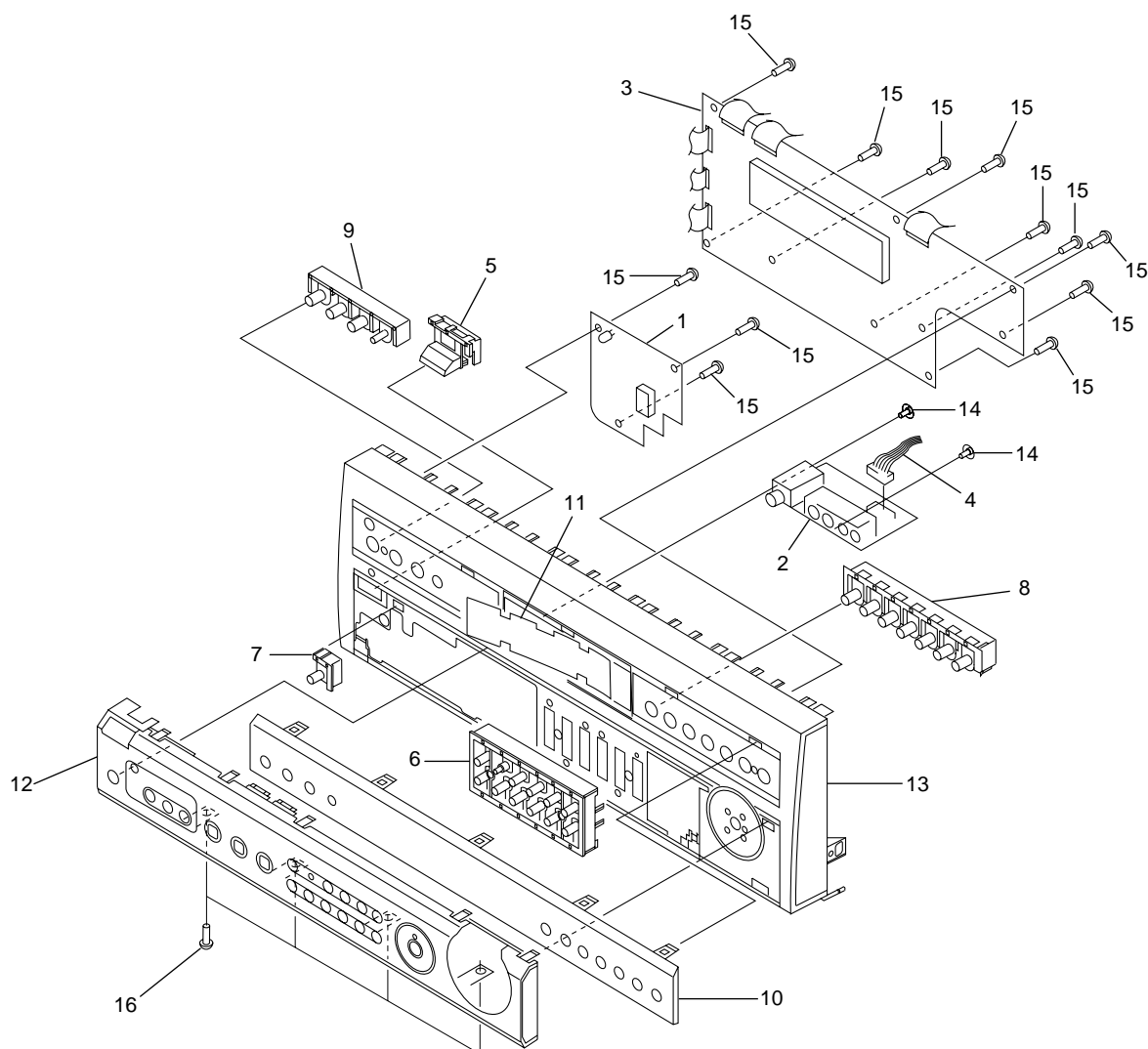
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP	1	INPUT Assy	See Contrast table (2)	NSP	36	Clamper	RNE1277
	2	MOS FET Assy	AWZ8497		37	Washer	AEC7110
	3	TRANS Assy	AWZ8496		38	Round Knob L	AAB7082
	4	REG.1 Assy	AWZ8507		39	Round Knob S	AAB7106
	5	R/C AMP Assy	AWZ8504		40	Jog Knob	AAB7048
NSP	6	FM/AM TUNER Module	See Contrast table (2)	NSP	41	Trans Frame	ANG7140
	7	PRIMARY Assy	See Contrast table (2)		42	Name Plate	PAM1755
	8	VIDEO/SR Assy	AWZ8509		43	Cord with Plug (J105)	DE012CD0
	9	VOLUME Assy	AWZ8047		44	Cushion Rubber	AEB7081
	10	R/C SPEAKER Assy	See Contrast table (2)		45	Screw	ABA1037
△	11	REG.2 Assy	AWZ8498		46	PCB Stopper	ANG7136
	12	DOLBY DIGITAL Assy	AWX7042		47	.....	
	13	Transistor(Q3,Q4,Q7,Q8,Q10)	2SA1962		48	Screw	ABA7019
	14	Transistor(Q1,Q2,Q5,Q6,Q9)	2SC5242		49	.....	
	15	Power Transformer	See Contrast table (2)		50	Screw	BBZ30P080FZK
△	16	Fuse (FU3-FU5 : 1.6A)	REK1077	NSP	51	Screw	BBZ30P180FMC
△	17	Fuse (FU1)	See Contrast table (2)		52	.....	
△	18	AC Power Cord	See Contrast table (2)		53	Binder	ZCA-BK1
	19	FET Plate	ANG7124		54	Screw	ABA7035
	20	Insulator	AMR7198		55	Screw	ABA-298
	21	Insulator	PNW2766	NSP	56	Screw	ABA1147
	22	Chassis	ANA7052		57	Barrier	See Contrast table (2)
	23	Rear Panel	See Contrast table (2)		58	Push Rivet	See Contrast table (2)
	24	Bonnet Case	ANE7136		59	Spacer	AEE7024
	25	Radiator	ANH7050		60	Spacer	AEB7092
NSP NSP	26	Shield Case	ANK7037	NSP △ △ △	61	Spacer B	AEB7086
	27	Bushing	AEC1402		62	Voltage Selector (S1)	See Contrast table (2)
	28	Cushion	AEB7076		63	Voltage Selector (S2)	See Contrast table (2)
	29	PCB Support	AEC1581		64	Fuse (FU2 : 3.15A)	See Contrast table (2)
		30	PCB Support	AEC7006			
	31	PCB Support	AEC7056				
	32	Sheet	AEE1028				
	33	Sheet	AEE7010				
	34	PCB Mold	AMR2533				
	35	Cord Stopper	See Contrast table (2)				

## (2) CONTRAST TABLE

VSX-D607S/KUXJI, KCXJI and SDXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			VSX-D607S /KUXJI	VSX-D607S /KCXJI	VSX-D607S /SDXJI	
NSP	1	INPUT Assy	AWX7148	AWX7148	AWX7149	
	6	FM/AM TUNER Module	AXQ7219	AXQ7219	AXQ3112	
	7	PRIMARY Assy	AWZ8865	AWZ8865	AWZ8866	
	10	R/C SPEAKER Assy	AWZ8505	AWZ8505	AWZ8613	
	△	15	Power transformer (AC120V)	ATS7161	Not used	
△	15	Power transformer (AC110V/120-127V/220V/240V)	Not used	Not used	ATS7163	
△	17	Fuse (FU1 : 6.3A)	REK1085	REK1085	Not used	
△	17	Fuse (FU1 : 3.15A)	Not used	Not used	REK1064	
△	18	AC Power Cord	PDG1015	PDG1015	ADG1157	
	23	Rear Panel	ANC7650	ANC7650	ANC7652	
△	35	Cord Stopper	CM-22C	CM-22C	CM-22B	
	57	Barrier	Not used	Not used	AEC7137	
	58	Push Rivet	Not used	Not used	AEC7138	
	△	62	Voltage Selector (S1)	Not used	AKX-507	
	△	63	Voltage Selector (S2)	Not used	AKX1004	
△	64	Fuse (FU2 : 3.15A)	Not used	Not used	REK1064	

## 2.3 FRONT PANEL SECTION



### ● FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP	1	POWER SWITCH Assy	AWZ8501	11	FL Filter	AAK7294	
NSP	2	FRONT INPUT Assy	AWZ8502	12	Sub Panel	AAP7042	
	3	FL/U-COM Assy	AWZ8043	13	Front Panel	AMB7501	
NSP	4	Housing 5P Shield (J27)	ADX1653	14	Screw	ABA7009	
	5	Power Button	AAD7325	15	Screw	BPZ30P080FMC	
	6	Tuner Button	AAD7326	16	Screw	BBZ30P080FZK	
	7	Input Button	AAD7327				
	8	Func. Button	AAD7328				
	9	SFC Button	AAD7329				
	10	FL Panel	AAK7295				



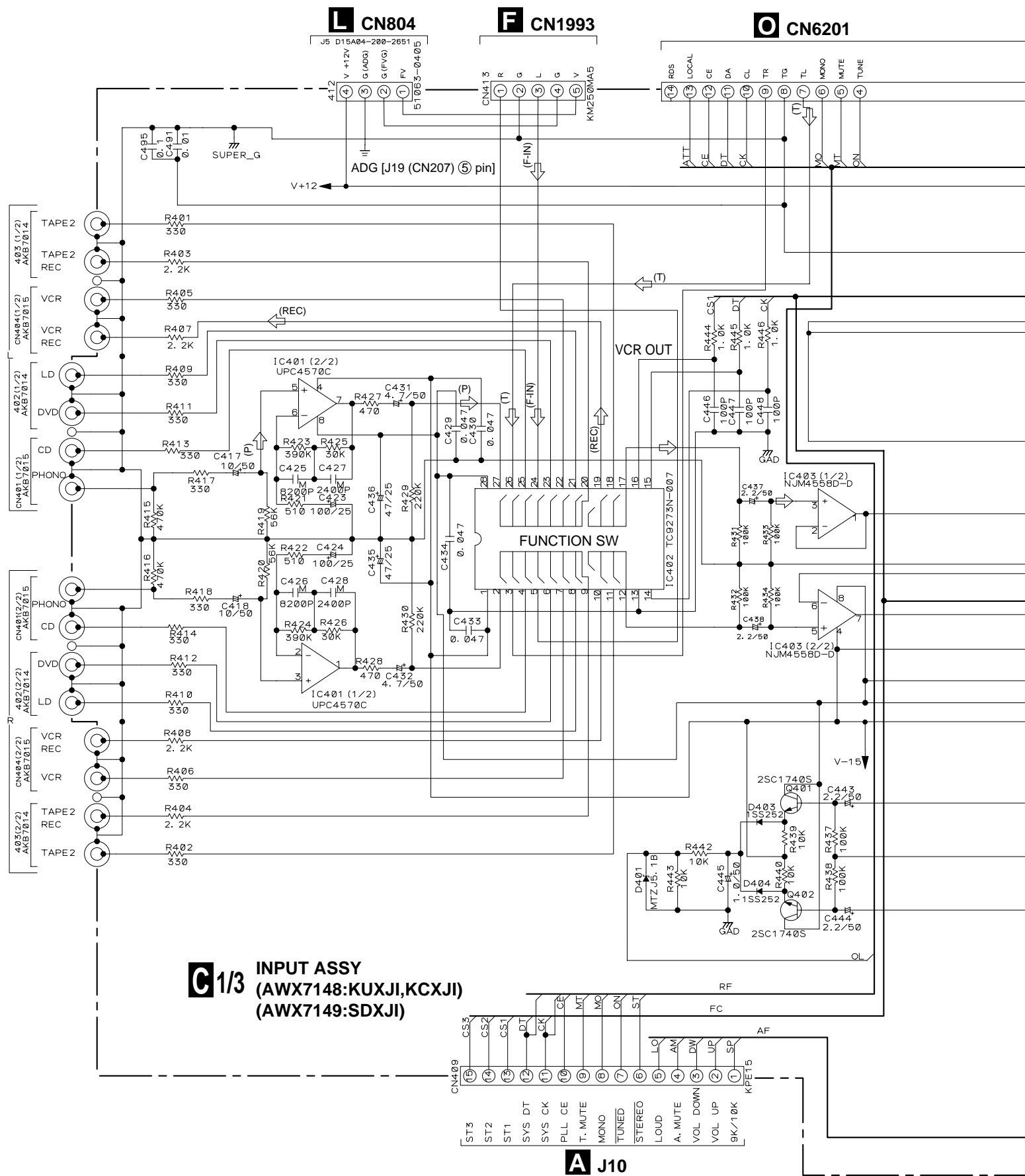
**CAUTION** — FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,  
REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.

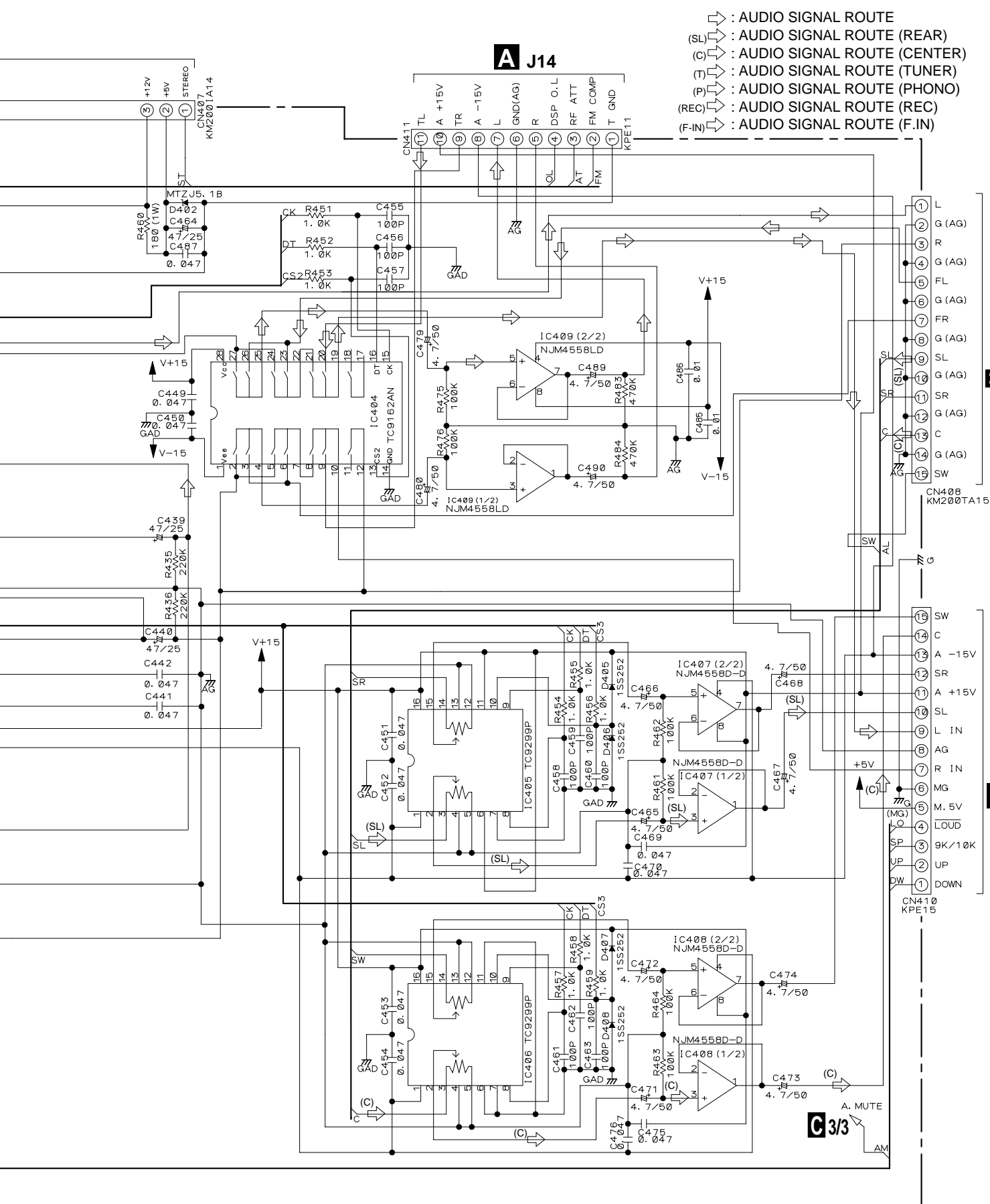




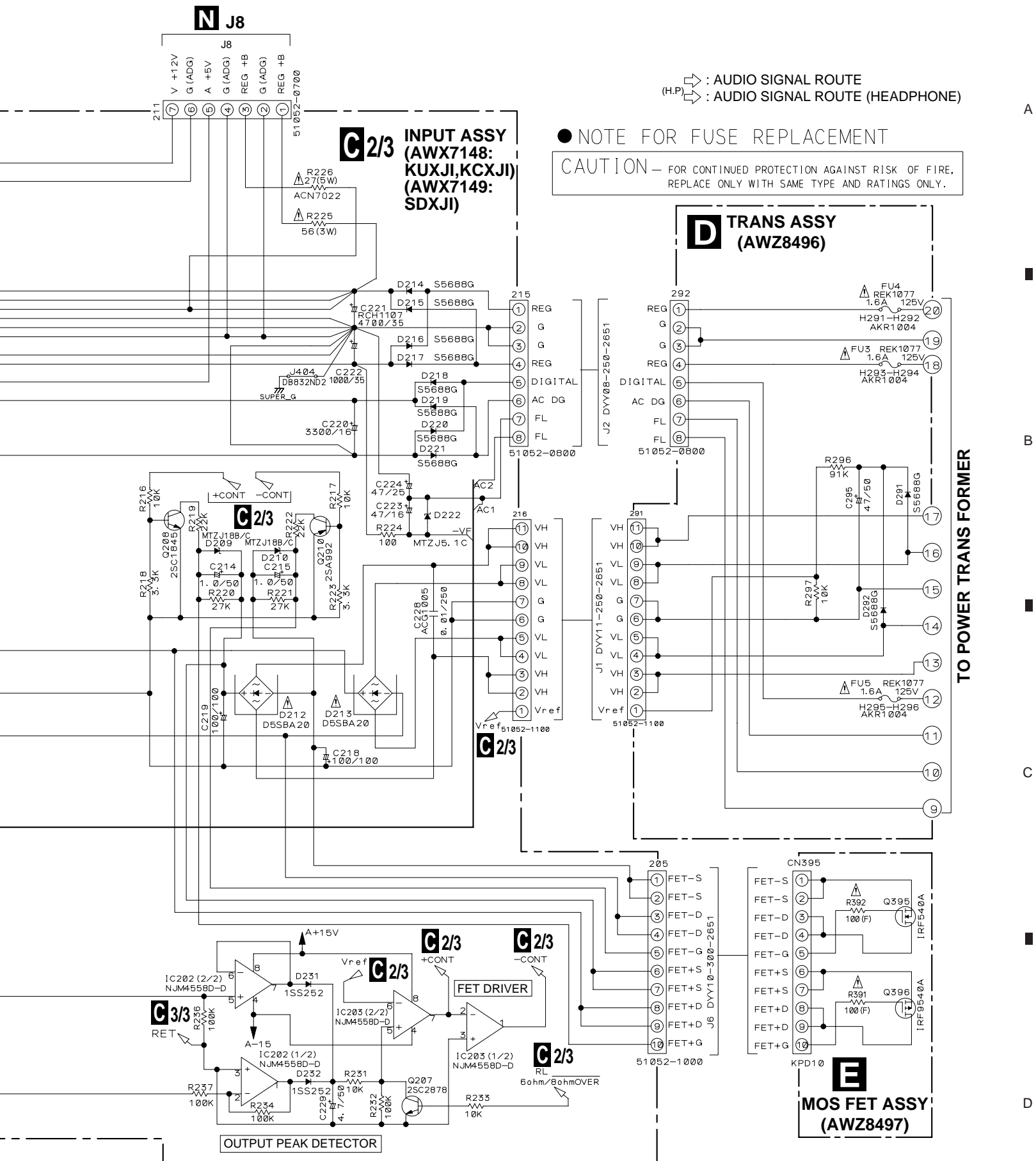


### 3.3 INPUT ASSY (1/3)

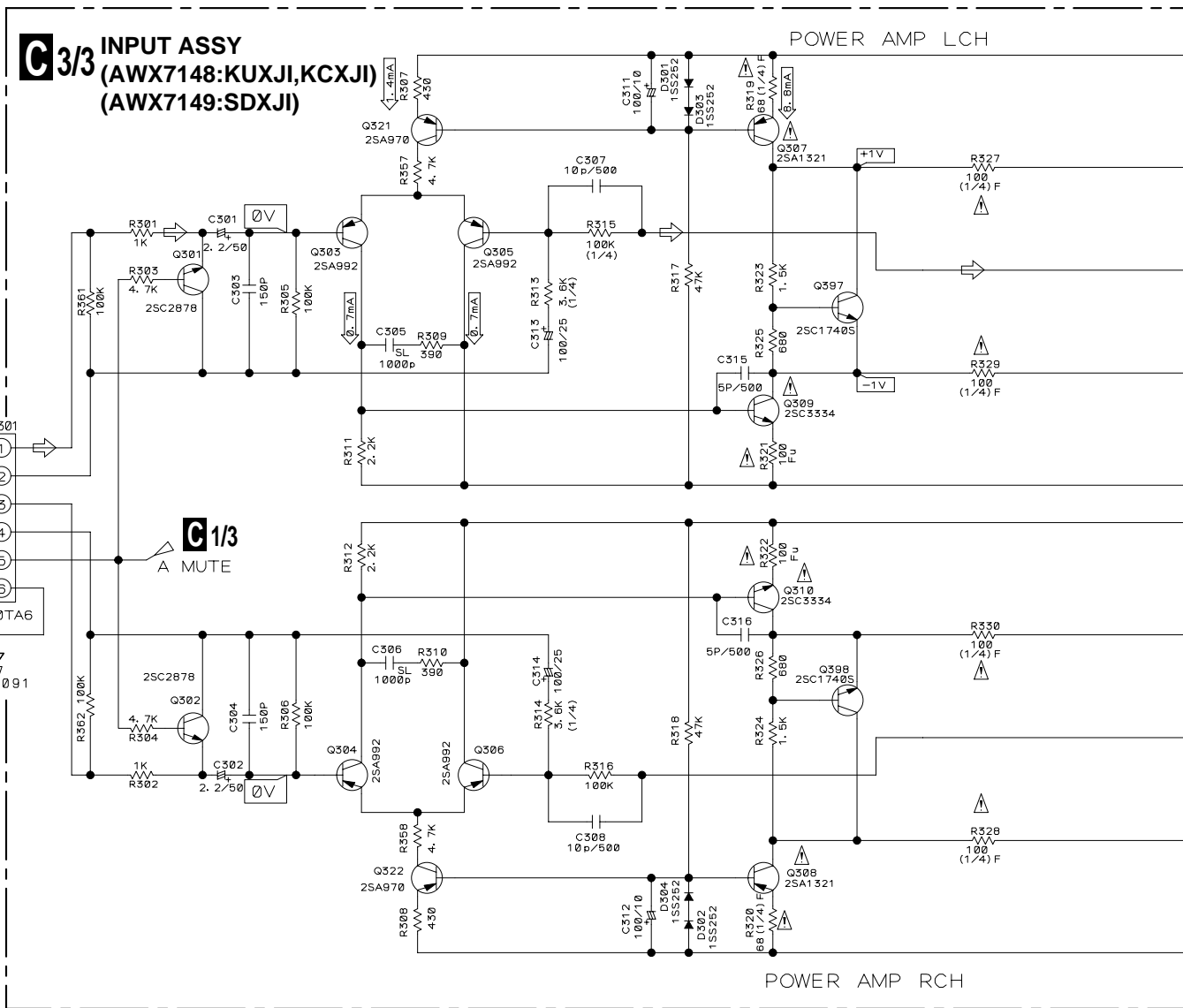




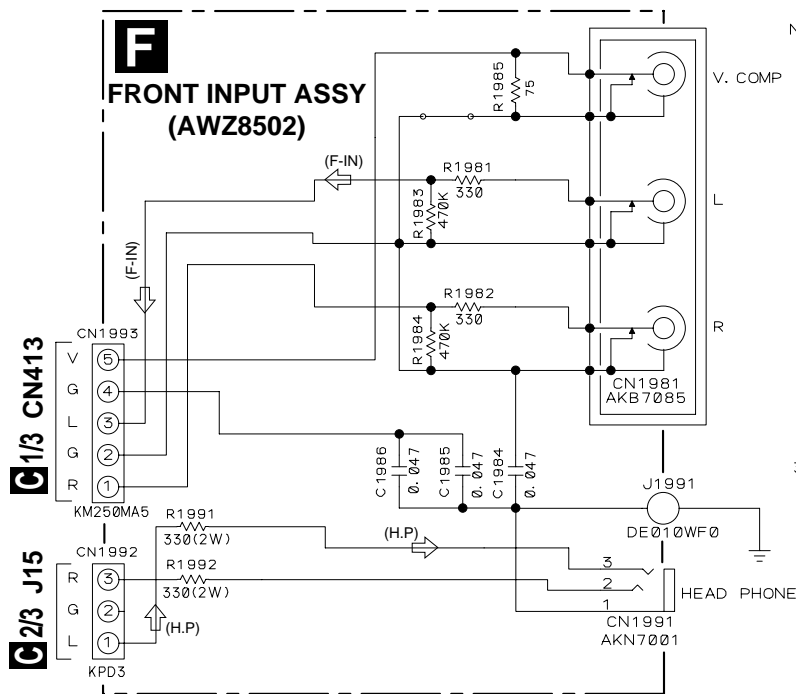
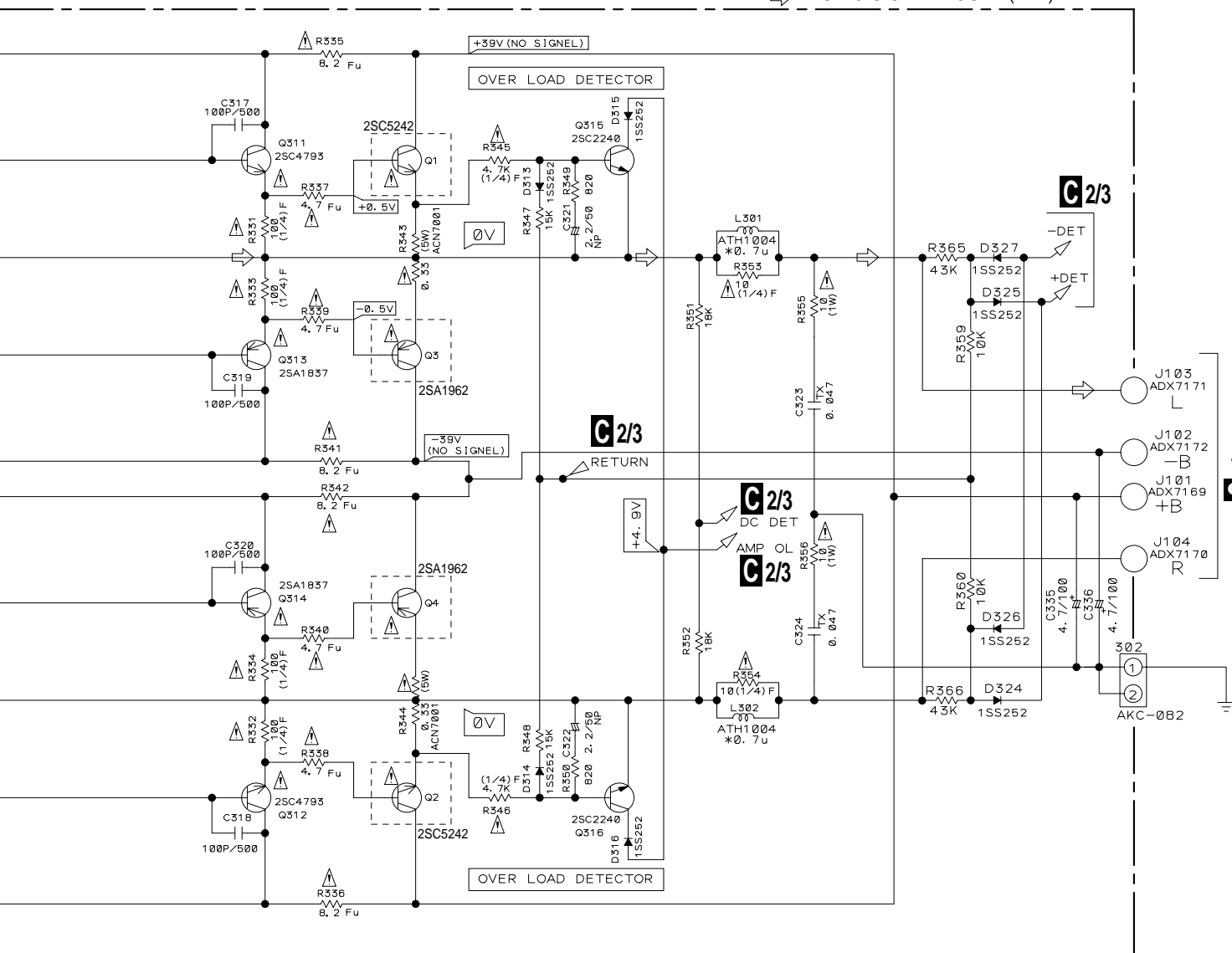




### 3.5 INPUT (3/3), FRONT INPUT AND REG.1 ASSEMBLIES



⇨ : AUDIO SIGNAL ROUTE  
 (H.P) ⇨ : AUDIO SIGNAL ROUTE (HEADPHONE)  
 (F-IN) ⇨ : AUDIO SIGNAL ROUTE (F.IN)



#### Noted

##### 1.Resistors

Indicated in ohm 1/4W  
 tolerance  $\pm 5\%$   
 unless otherwise noted  
 K: Kohm, M: Mohm  
 F: Non flammable type  
 Fu: Non flammable quick open type  
 FL: Non flammable type  
 (RD1/4LMF\*\*\*J type)

##### 2.Capacitors

Indicated in capacity (uF) / voltage (V)  
 unless otherwise noted  
 p=pF  
 Indication without voltage is 50V  
 except  
 electrolytic capacitor  
 NL=CEANL, TX=CFTXA

##### 3.Diodes

Other diodes (not noted) are 1SS252





C

## D

H<sup>1/3</sup> 19

Unit: pF or  $\mu$ F unless otherwise noted.  
Ratings: Capacity ( $\mu$ F)/Voltage (V) unless otherwise noted.  
Rated Voltage: 50V expect for electrolytic capacitors.

CH. . . . CCSQCH

YF. . . . CKSQYF

YB. . . . CKSQYB

$t$  . . . . CEV

(indicated "\*"mark parts are  
not used.)

## 3.7 DOLBY DIGITAL ASSY (2/3)

# H 2/3 DOLBY DIGITAL ASSY (AWX7042)

## 1. RESISTORS

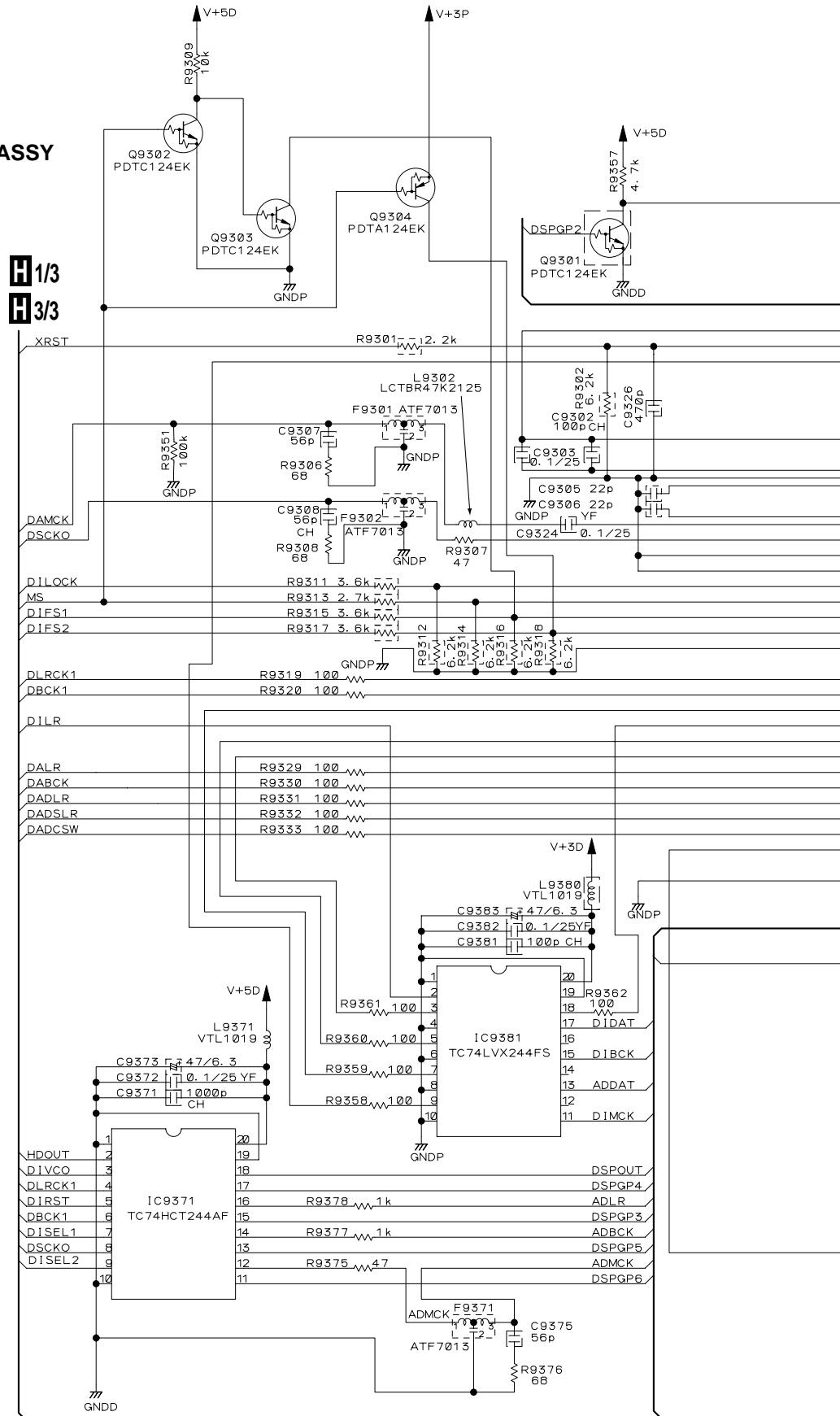
Unit: k:kΩ, M:MΩ or Ω unless otherwise noted.  
 Rated power: 1/10W unless otherwise noted.  
 Tolerance: (J) ±5% unless otherwise noted.

## 2. CAPACITORS

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

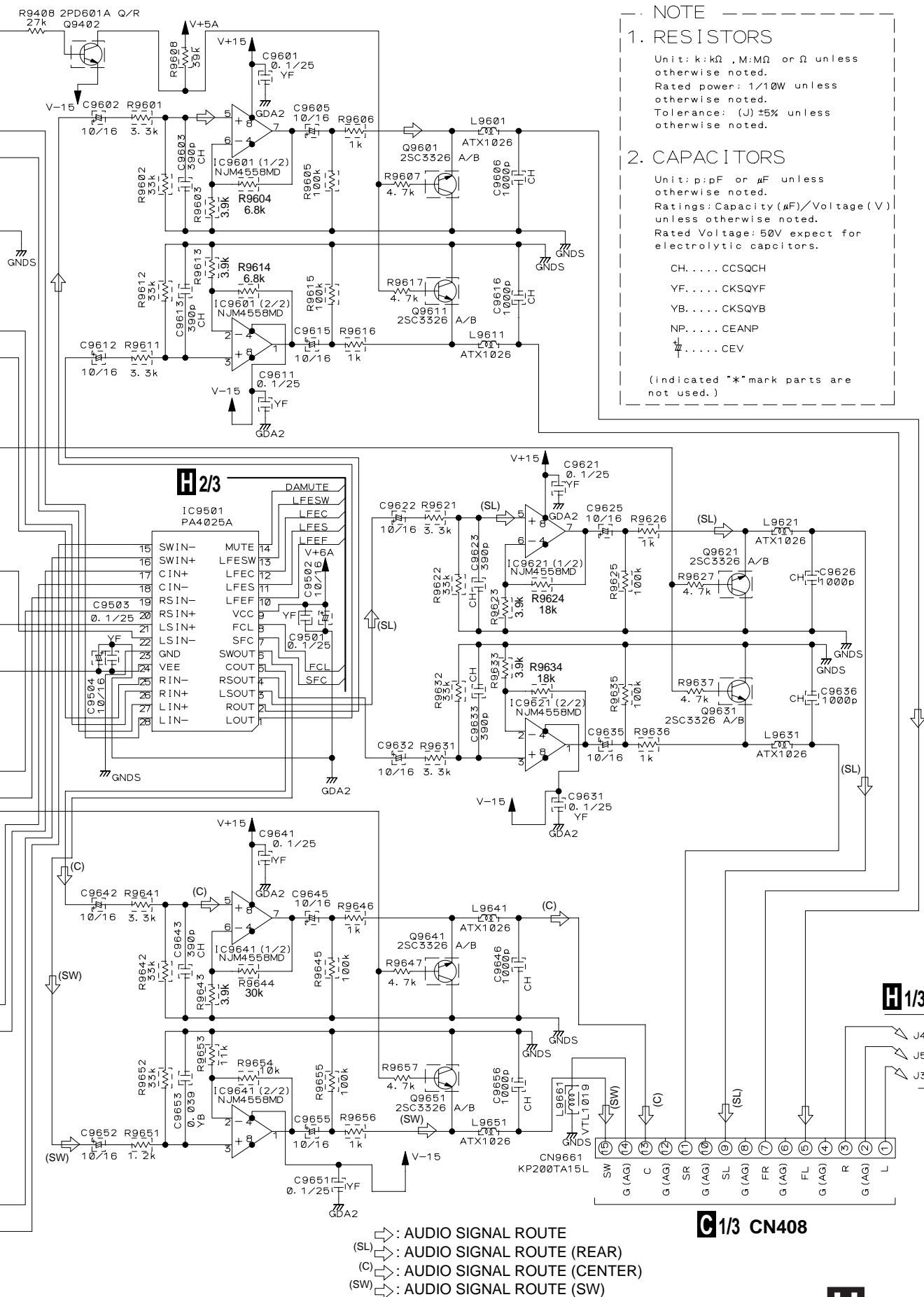
CH.....CCSQCH  
 YF.....CKSQYF  
 YB.....CKSQYB  
 NP.....CEANP  
 \*.....CEV

(indicated "\*"mark parts are not used.)

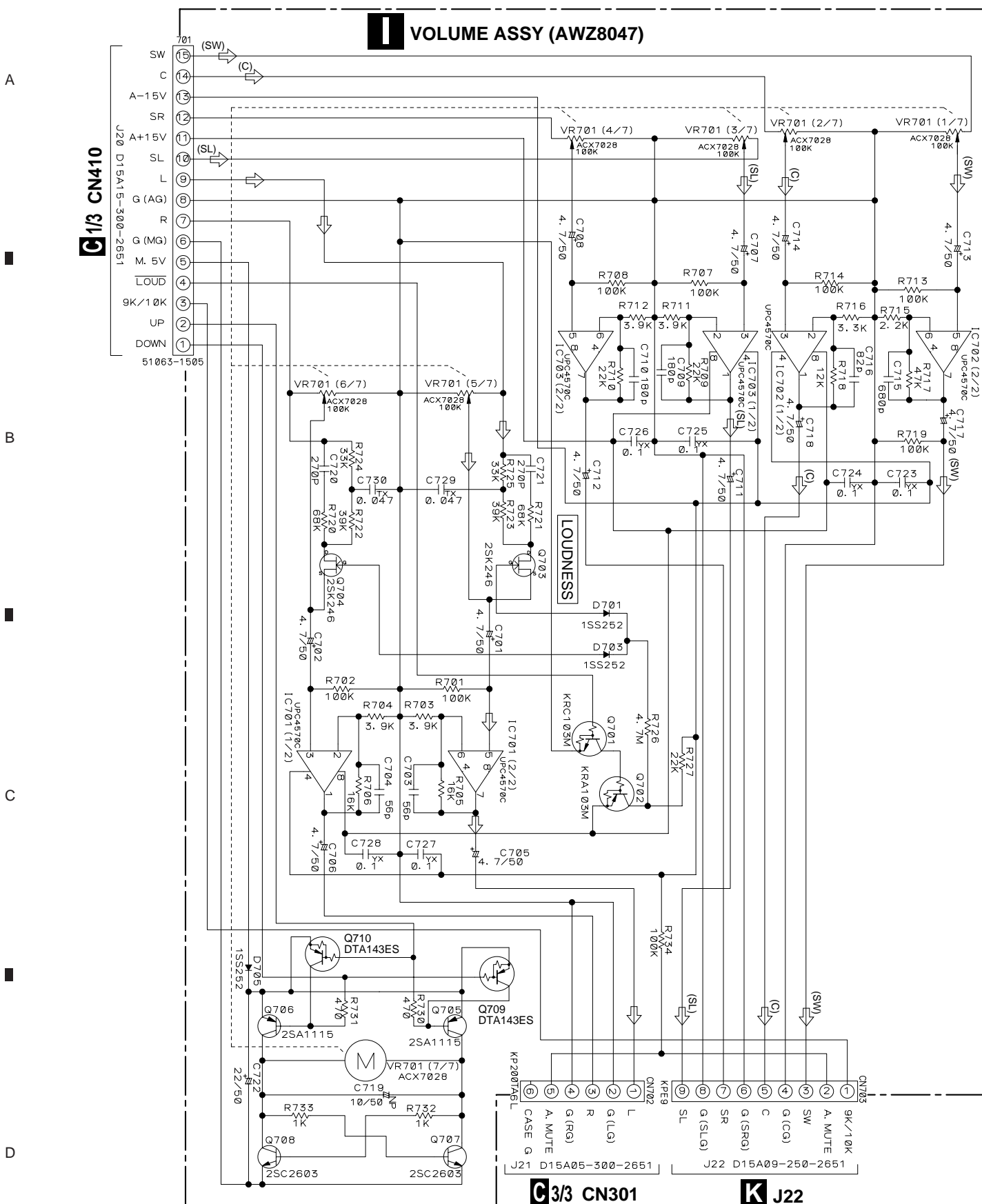






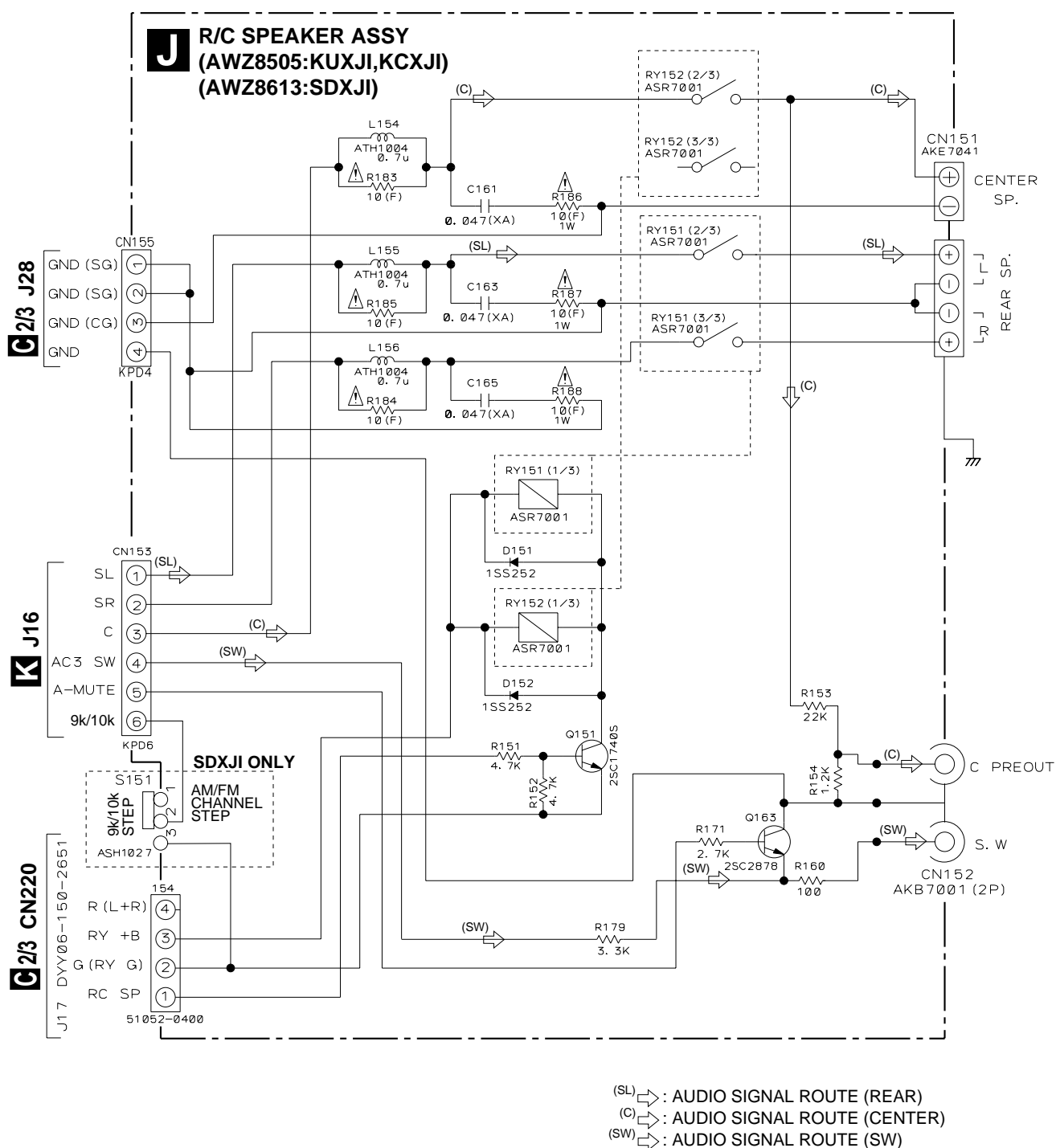


### 3.9 VOLUME ASSY

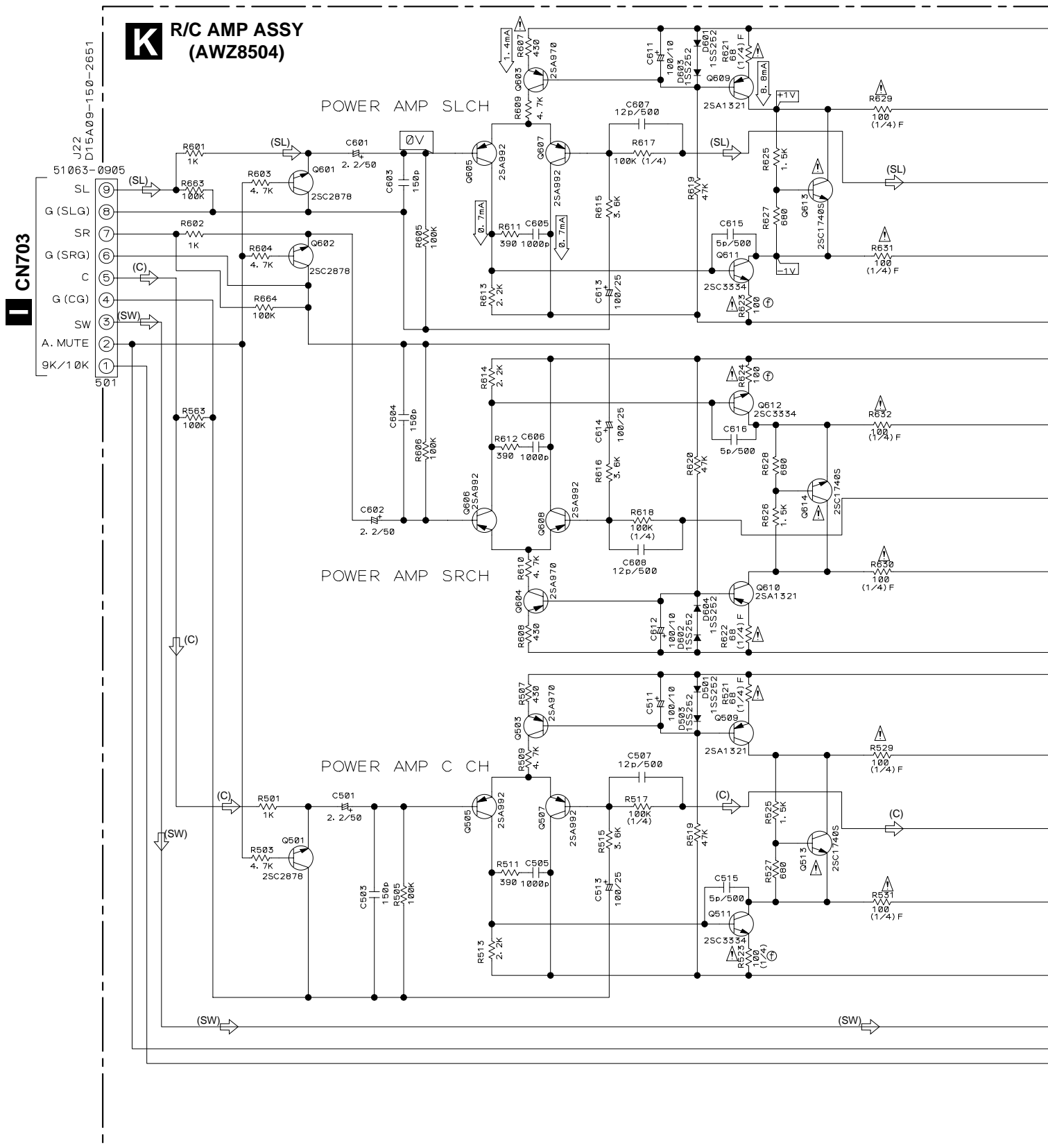


⇒: AUDIO SIGNAL ROUTE  
(SL)⇒: AUDIO SIGNAL ROUTE (REAR)  
(C)⇒: AUDIO SIGNAL ROUTE (CENTER)  
(SW)⇒: AUDIO SIGNAL ROUTE (SW)

## 3.10 R/C SPEAKER ASSY



### 3.11 R/C AMP ASSY



B



D

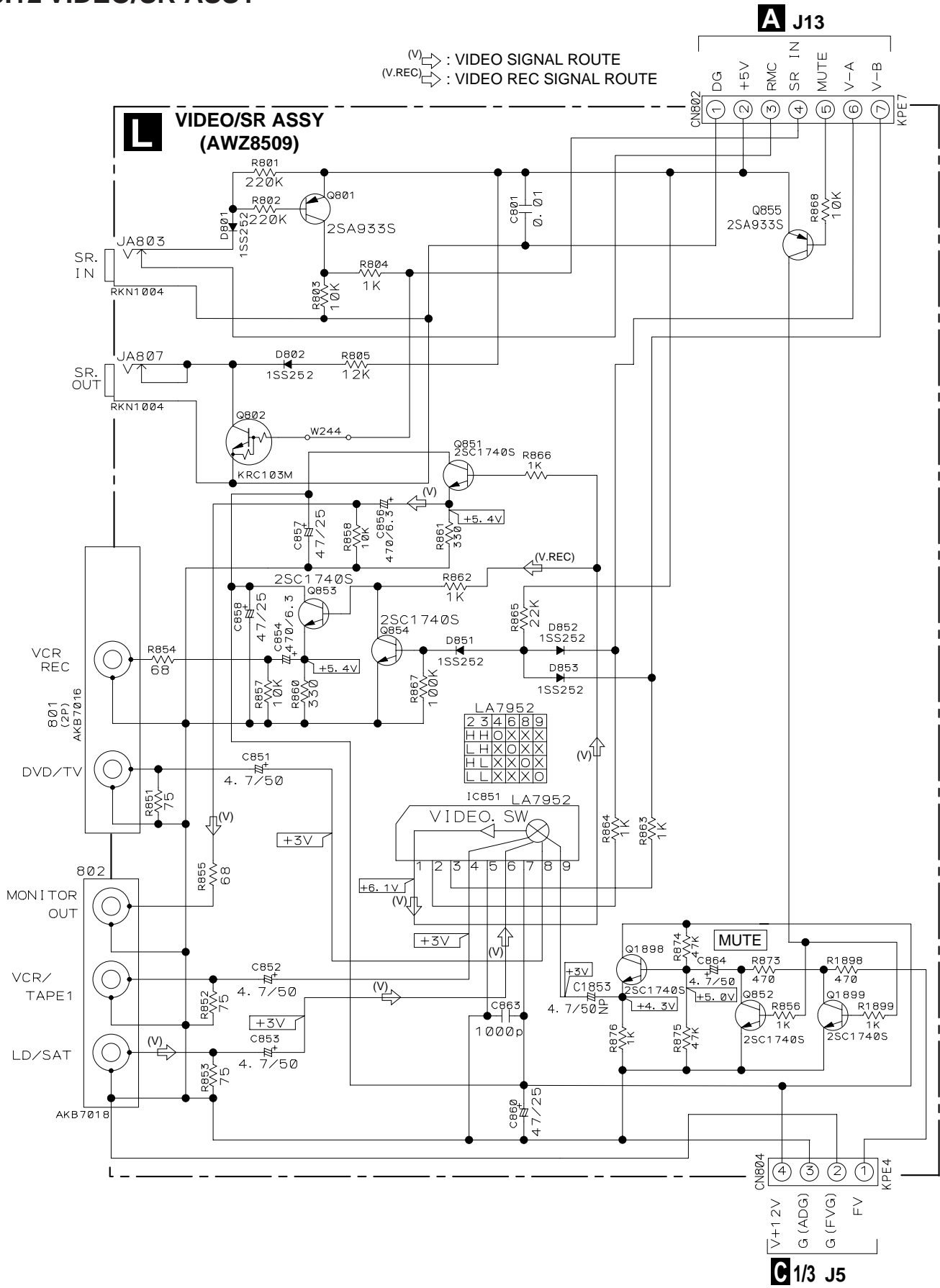
### 3.12 VIDEO/SR ASSY

A

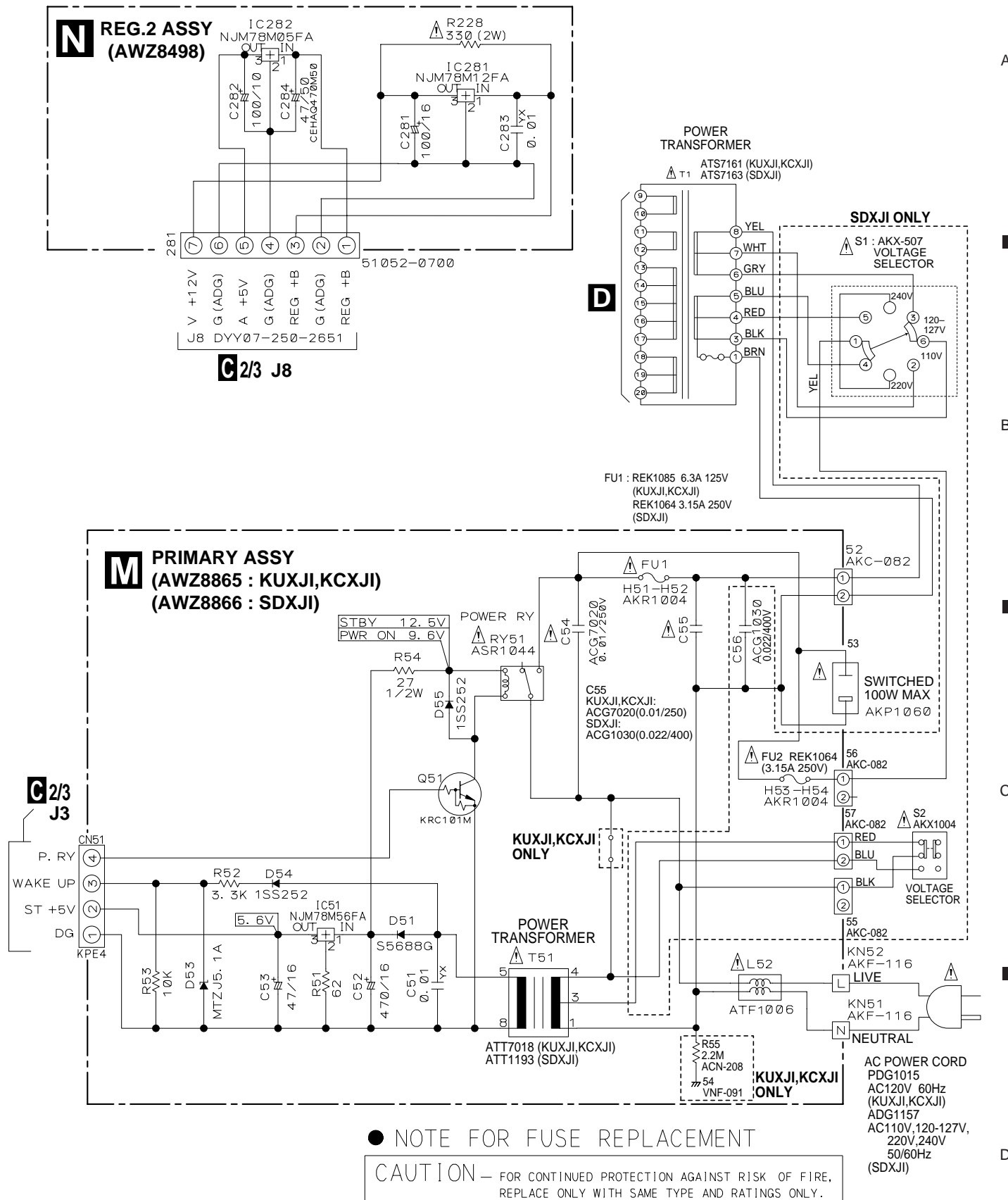
B

C

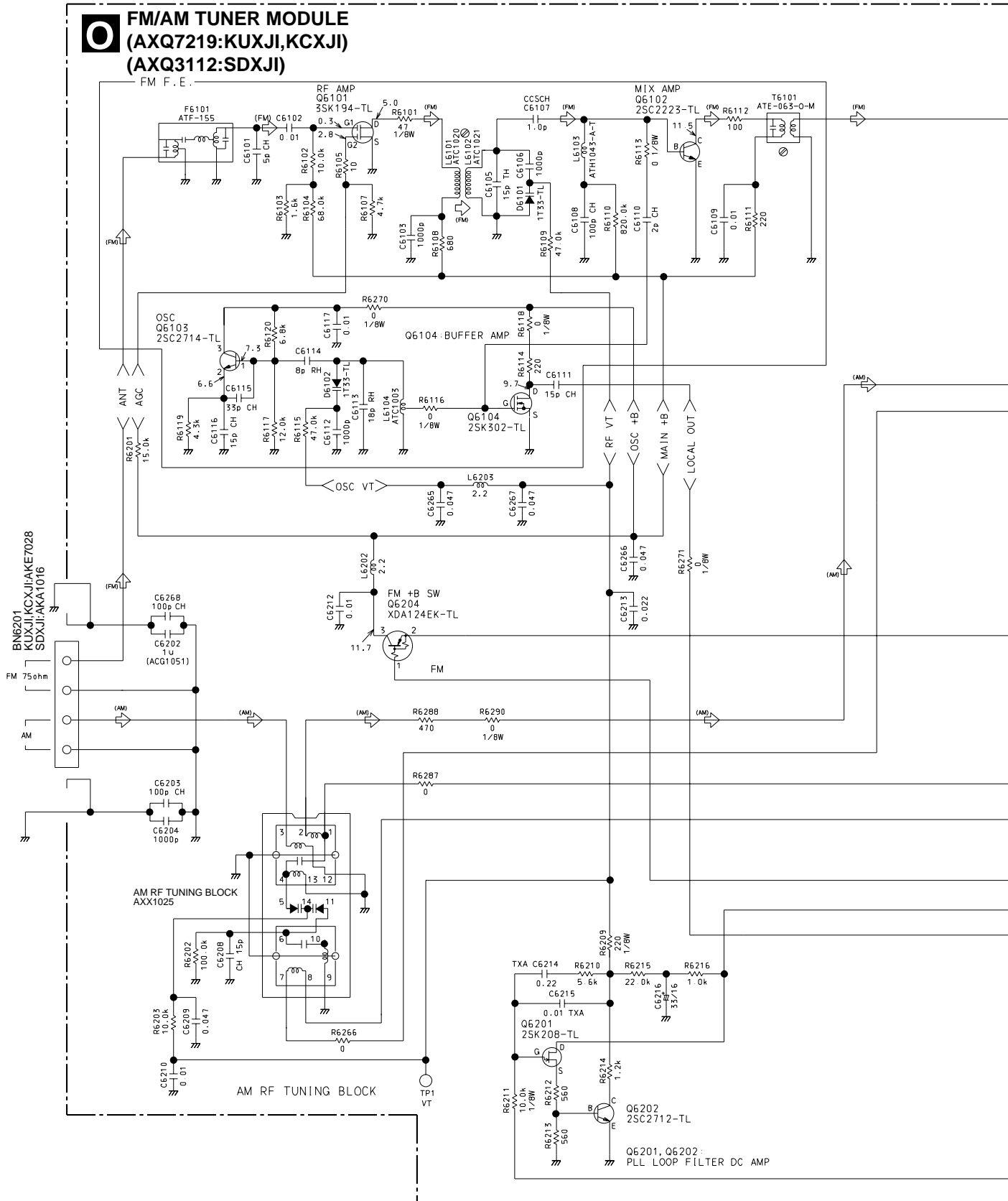
D

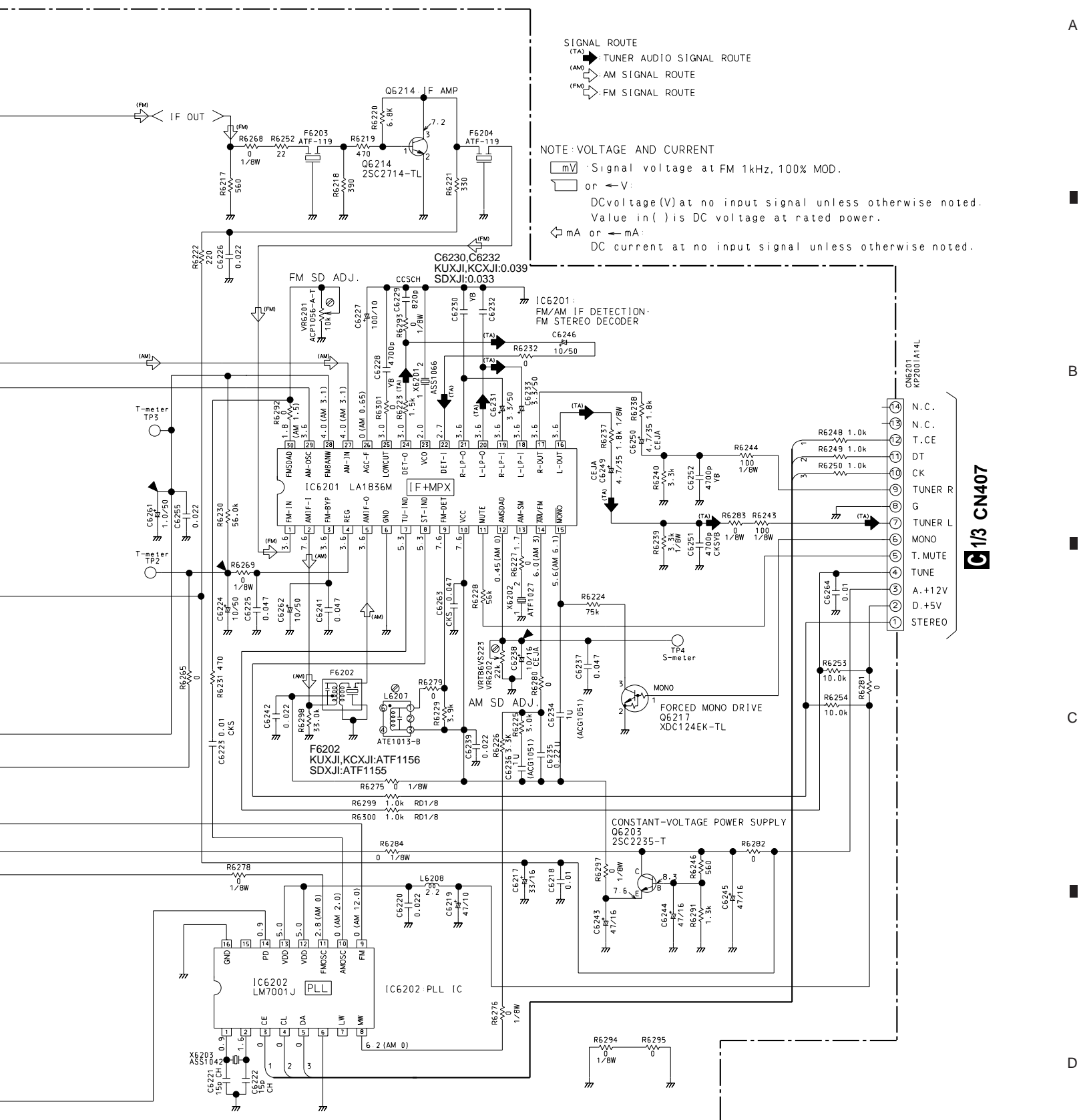


## 3.13 PRIMARY AND REG.2 ASSEMBLIES



## 3.14 FM/AM TUNER MODULE









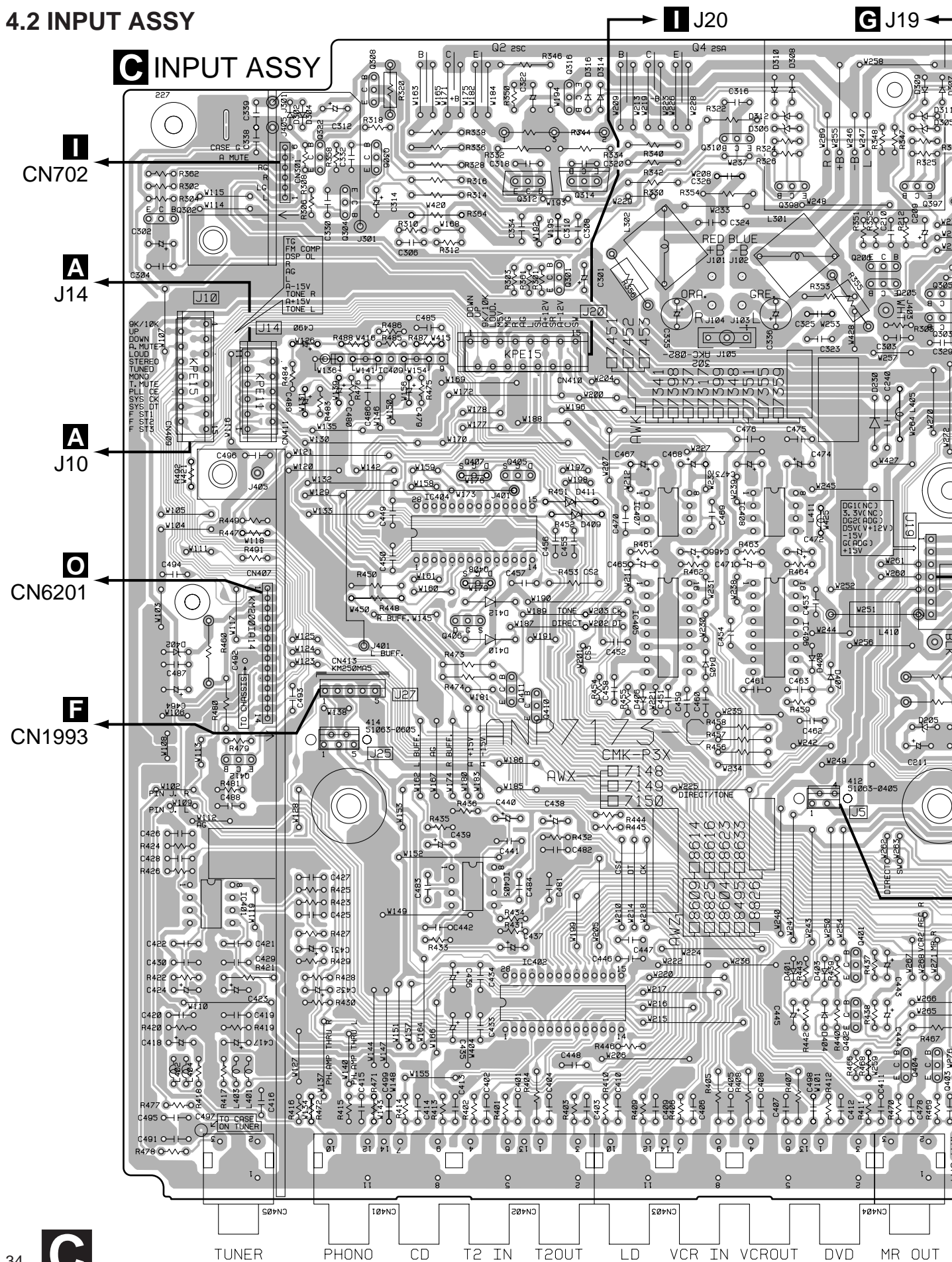
C

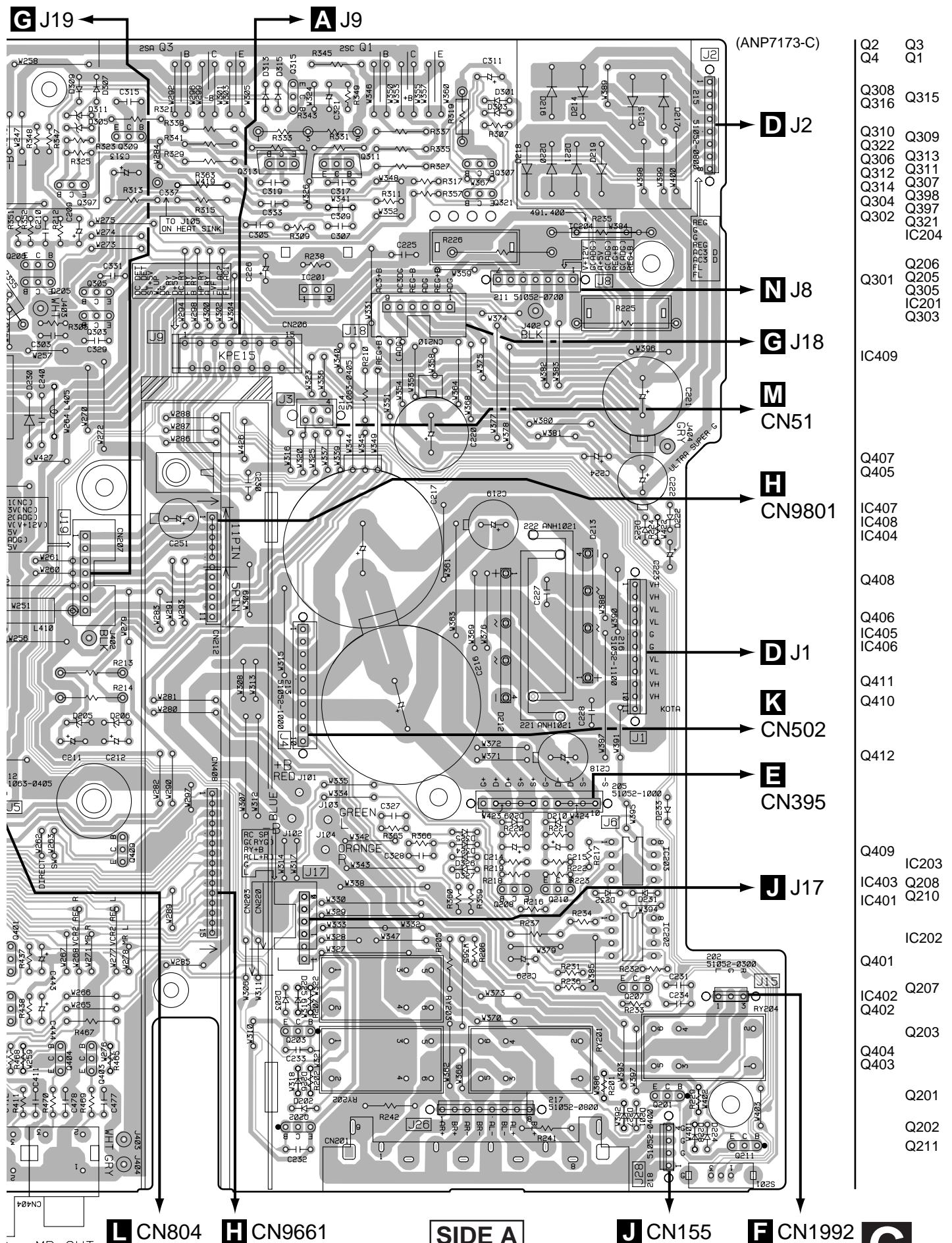
Q907 Q904 Q952 Q951  
IC902 IC951  
Q953

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.

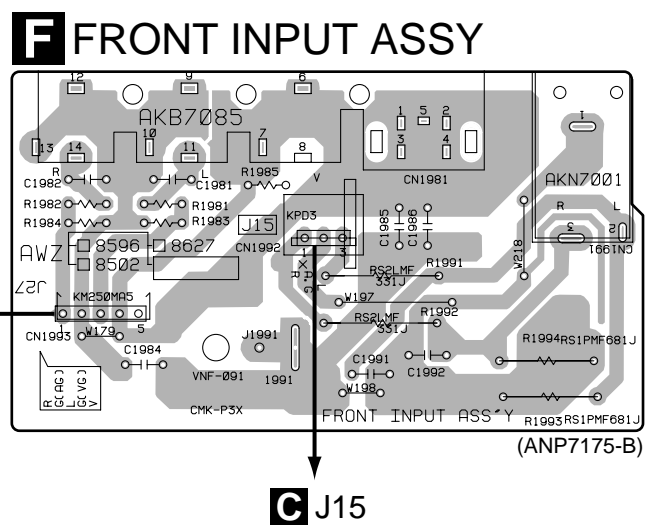
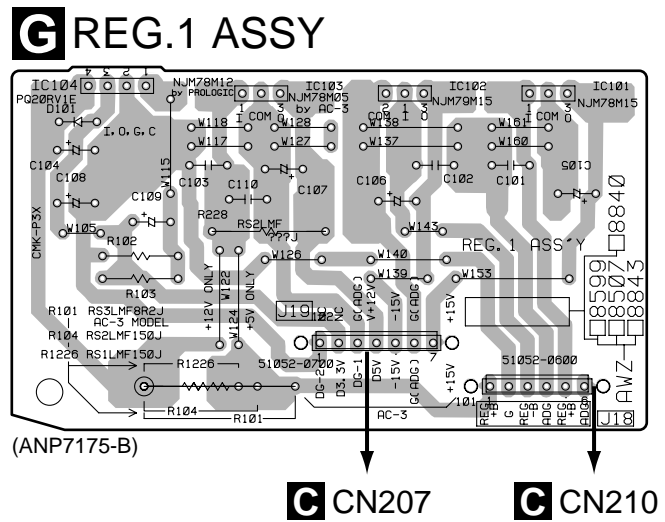
D

## 4.2 INPUT ASSY

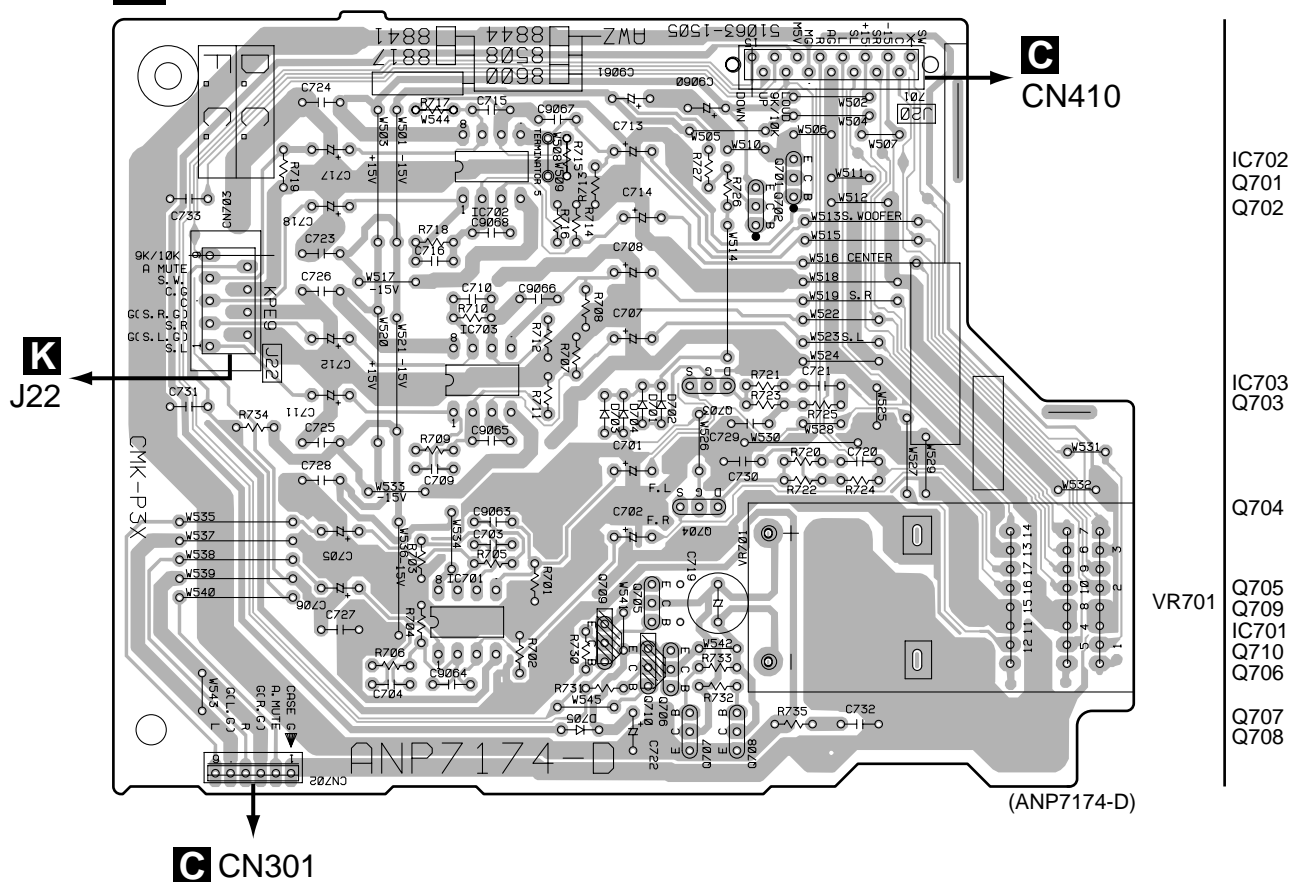
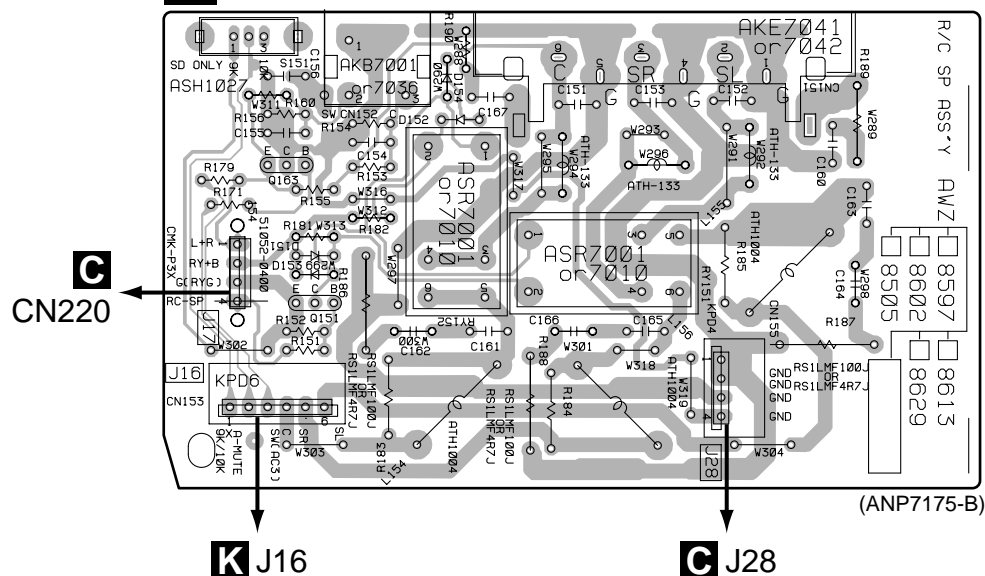




C

**SIDE A**

## 4.4 VOLUME AND R/C SPEAKER ASSEMBLIES

**I** VOLUME ASSY**J** R/C SPEAKER ASSY

SIDE A

## 4.5 DOLBY DIGITAL ASSY

- This diagram has four layers. In the two middle layers, mainly Vcc and GND are connected.

## H DOLBY DIGITAL ASSY

A  
J23C  
CN212C  
CN408

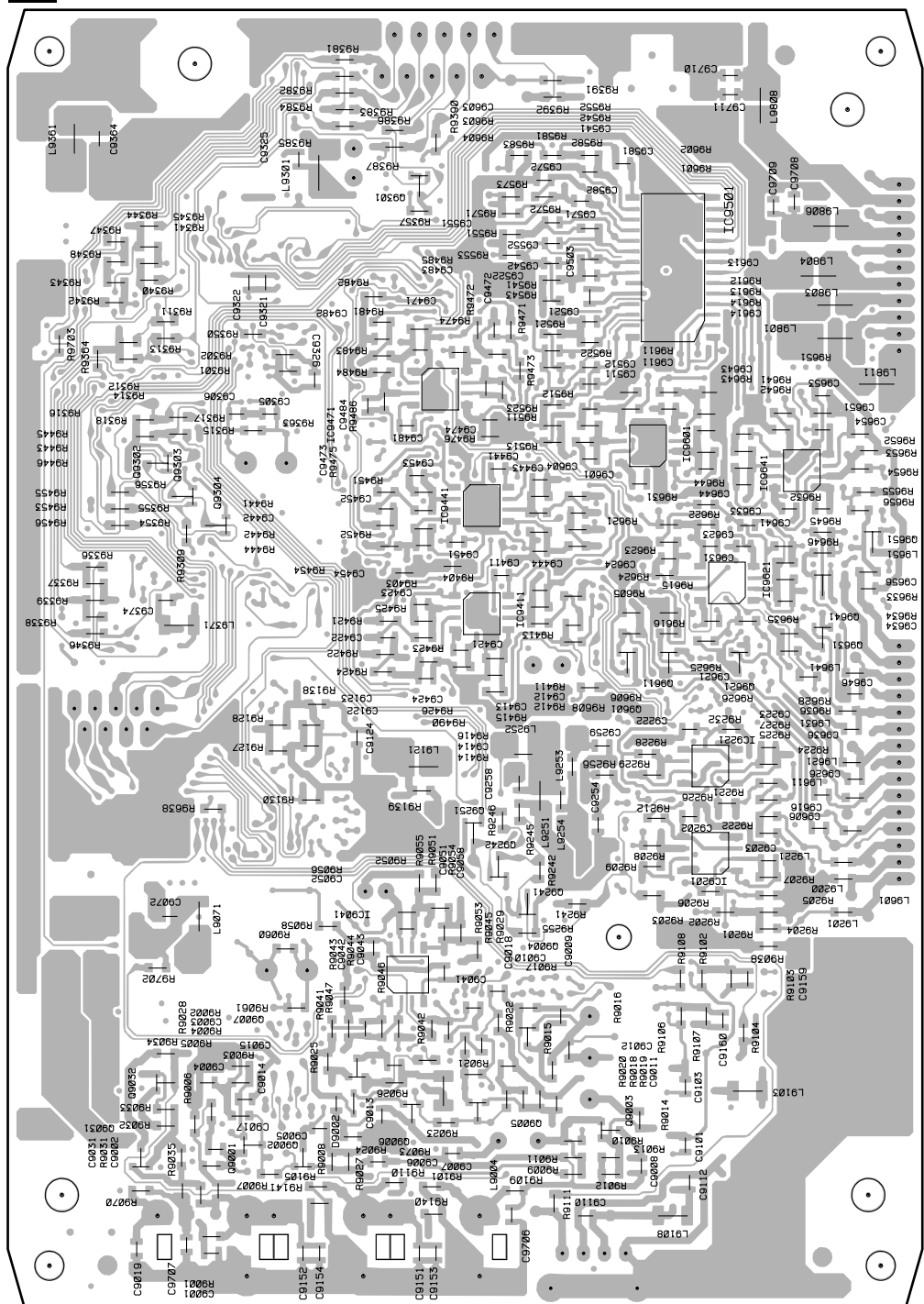
(ANP7183-D)

Q9462	Q9431	Q9401	IC9461	IC9371	IC9361
Q9461	Q9402	IC9251	IC9431	IC9121	IC9301
Q9221	Q9201		IC9401	IC9071	IC9381
Q9432	IC9103				IC9091

SIDE A

- This diagram has four layers. In the two middle layers, mainly Vcc and GND are connected.

## H DOLBY DIGITAL ASSY



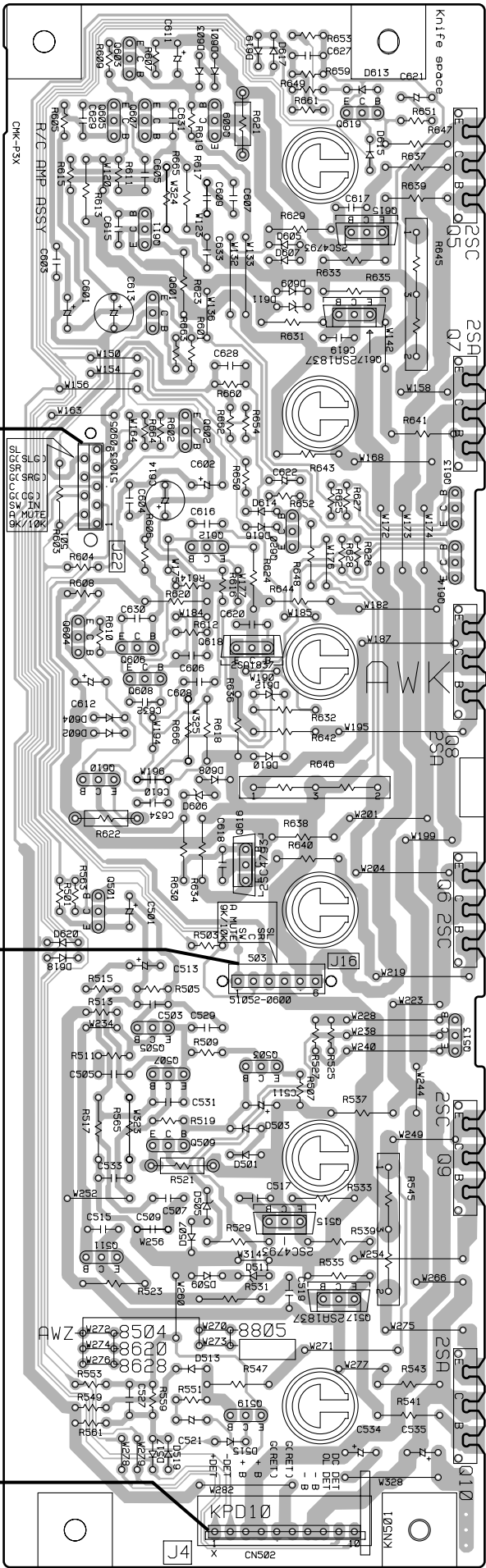
(ANP7183-D)

Q9302	Q9304	IC9471	IC9441	IC9501	IC9621	IC9641
Q9303	Q9002	IC9041	IC9411	IC9601	Q9621	Q9651
Q9032		Q9006	Q9251	Q9601	IC9221	Q9641
Q9031		Q9301	Q9242	Q9611	IC9201	Q9631
		Q9005	Q9241	Q9003		
			Q9004			

**SIDE B**


4.6 R/C AMP ASSY

**K** R/C AMP ASSY



**I** CN703

**J** CN153

**C** J4

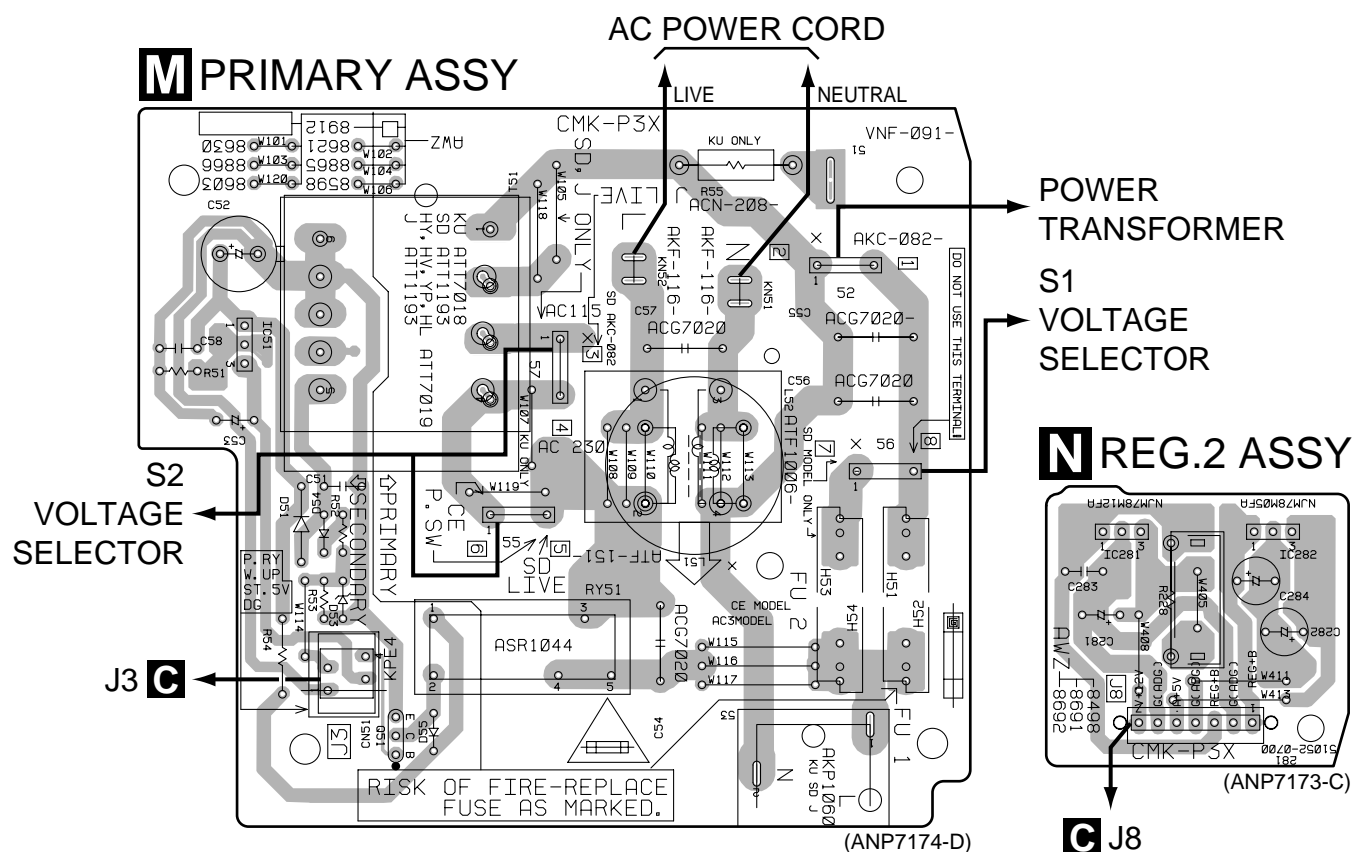
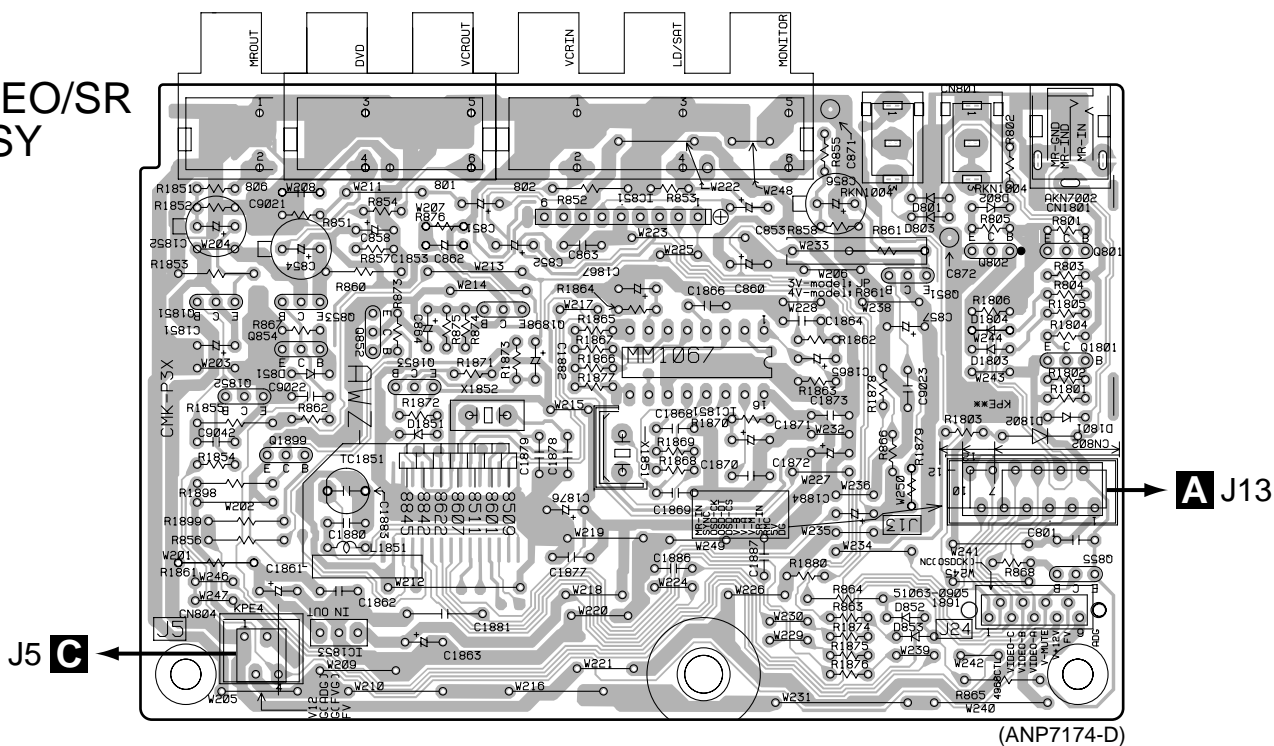
- Q603
- Q605 Q619
- Q607 Q609
- Q5
- Q611 Q615
- Q601 Q617
- Q602 Q7
- Q613
- Q620 Q612
- Q614
- Q604 Q618
- Q606 Q8
- Q608
- Q610
- Q616
- Q501 Q6
- Q505 Q513
- Q507 Q503
- Q509 Q9
- Q515
- Q511
- Q517
- Q10
- Q519

SIDE A

**K**

(ANP7175-B)

## 4.7 VIDEO/SR, PRIMARY AND REG.2 ASSEMBLIES

**L**  
 VIDEO/SR  
 ASSY


SIDE A

**L** **M** **N**



## O



(ANP1729-B)

D

## 5. PCB PARTS LIST

NOTES: ●Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

●The  $\Delta$  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 ..... RD1/4PU  $\begin{bmatrix} 5 & 6 & 1 \end{bmatrix}$  J

47k  $\Omega$   $\rightarrow$   $47 \times 10^3$   $\rightarrow$  473 ..... RD1/4PU  $\begin{bmatrix} 4 & 7 & 3 \end{bmatrix}$  J

0.5  $\Omega$   $\rightarrow$  R50 ..... RN2H  $\begin{bmatrix} R & 5 & 0 \end{bmatrix}$  K

1  $\Omega$   $\rightarrow$  1R0 ..... RS1P  $\begin{bmatrix} 1 & R & 0 \end{bmatrix}$  K

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 ..... RN1/4PC  $\begin{bmatrix} 5 & 6 & 2 & 1 \end{bmatrix}$  F

### LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.			Remarks
		VSX-D607S /KUXJI	VSX-D607S /KXCJI	VSX-D607S /SDXJI	
NSP	MOTHER ASSY	AWK7451	AWK7451	AWK7452	
	└─INPUT ASSY	AWX7148	AWX7148	AWX7149	
	└─TRANS ASSY	AWZ8496	AWZ8496	AWZ8496	
NSP	└─MOS FET ASSY	AWZ8497	AWZ8497	AWZ8497	
	└─REG.2 ASSY	AWZ8498	AWZ8498	AWZ8498	
NSP	FRONT & R/C AMP ASSY	AWK7443	AWK7443	AWK7445	
	└─FL/U-COM ASSY	AWZ8043	AWZ8043	AWZ8043	
NSP	└─POWER SWITCH ASSY	AWZ8501	AWZ8501	AWZ8501	
NSP	└─FRONT INPUT ASSY	AWZ8502	AWZ8502	AWZ8502	
	└─R/C AMP ASSY	AWZ8504	AWZ8504	AWZ8504	
	└─R/C SPEAKER ASSY	AWZ8505	AWZ8505	AWZ8613	
	└─REG.1 ASSY	AWZ8507	AWZ8507	AWZ8507	
NSP	COMPLEX ASSY	AWK7454	AWK7454	AWK7455	
	└─VOLUME ASSY	AWZ8047	AWZ8047	AWZ8047	
	└─VIDEO/SR ASSY	AWZ8509	AWZ8509	AWZ8509	
NSP	└─PRIMARY ASSY	AWZ8865	AWZ8865	AWZ8866	
	DOLBY DIGITAL ASSY	AWX7042	AWX7042	AWX7042	
	FM/AM TUNER MODULE	AXQ7219	AXQ7219	AXQ3112	

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
<b>A FL/U-COM ASSY</b> <b>SEMICONDUCTORS</b> IC1902 NJM4558D-D IC901 PDG213A IC1901 UPC4570C Q904 2SA933S Q905,Q906 2SC1740S Q901,Q903 KRC101M Q902 KRC103M D901-D912,D914-D918 1SS252 D923,D924 1SS252				<b>CAPACITORS</b> C902 (0.22F) ACH7058 C932,C933 CCPUSL220J50 C1911,C1912,C1915-C1918 CEAS100M50 C911 CEAS101M25 C903 CEAS221M10 C1921,C1922,C907,C909 CEAS2R2M50 C940 CEAS470M16 C913 CEAS470M25 C912 CEAS470M50 C1907,C1908 CFTXA123J50 C1905,C1906 CFTXA274J50 C1903,C1904 CFTXA473J50 C1909,C1910 CFTXA563J50 C1919,C1920 CGCYX103M16 C908 CGCYX104M16 C914 CKCYF103Z50 C917,C931,C934-C939 CKPUYB101K50 C941,C942 CKPUYB101K50 C919 CKPUYB102K50 C943,C944 CKPUYF103Z25			
<b>COIL</b> L901 LAU2R2J							
<b>SWITCHES</b> S901,S903-S911,S913-S916 ASG1034 S918-S921 ASG1034 S922 ASX7001							

Mark	No.	Description	Part No.
	C905,C906		CKPUYF473Z16
	C901,C904,C918,C945,C965		CKPUYY103M16
	C910		CKPYF103Z50

**RESISTORS**

R919	RA8T103J
VR1903 (500kΩ)	ACS1016
VR1901,VR1902 (30kΩ)	ACS7020
Other Resistors	RD1/4PU□□□□

**OTHERS**

X901	CERAMIC RESONATOR (7.70MHz)	ASS1055
906	7P CABLE HOLDER	51063-0705
903	10P CABLE HOLDER	51063-1005
907	11P CABLE HOLDER	51063-1105
904	12P CABLE HOLDER	51063-1205
902,908	15P CABLE HOLDER	51063-1505
V901	FL TUBE	AAV7034
901	REMOTE RECEIVER UNIT	GP1U28X

## **B** POWER SWITCH ASSY

### SEMICONDUCTOR

D981	AEL1065
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**SWITCHES**

S981-S986	ASG1034
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**RESISTORS**

All Resistors	RD1/4PU□□□□
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**OTHERS**

CN981	7P JAMPER CONNECTOR KPE7
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## **C** INPUT ASSY

**(1) CONTRAST TABLE**

AWX7148 and AWX7149 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX7148	AWX7149	
	C216,C217	ACH7018 (8200μF/71V)	ACH7019 (8200μF/80V)	
	C495	CGCYX104M12	CGCYX104M16	

**(2) PARTS LIST FOR AWX7148****SEMICONDUCTORS**

IC202,IC203,IC403,IC407,IC408	NJM4558D-D
IC409	NJM4558LD
IC201	NJM78M56FA
IC404	TC9162AN
IC402	TC9273N-007
IC405,IC406	TC9299P
IC401	UPC4570C
△ Q307,Q308	2SA1321
△ Q313,Q314	2SA1837
Q321,Q322	2SA970

Mark	No.	Description	Part No.
	Q210,Q303-Q306		2SA992
	Q205,Q206,Q397,Q398		2SC1740S
	Q401,Q402		2SC1740S
	Q208		2SC1845
	Q315,Q316		2SC2240

△ Q207,Q301,Q302	2SC2878
△ Q309,Q310	2SC3334
Q311,Q312	2SC4793
Q201-Q203,Q211	KRC101M
D201-D203,D224,D230-D233	1SS252

D301-D304,D313-D316	1SS252
D324-D327,D403-D408	1SS252
D212,D213	D5SBA20
D209,D210	MTZJ18B
D401,D402	MTZJ5.1B

D222	MTZJ5.1C
D205,D206	MTZJ6.2B
D214-D221	S5688G

**COILS**

L301,L302 AF CHOKE COIL	ATH1004
L410,L411	LAU220J

**SWITCH AND RELAYS**

S201	ASH1027
RY201-RY204	ASR7001

**CAPACITORS**

C227,C228 (0.01μF/AC250V)	ACG1005
C216,C217 (8200μF/71V)	ACH7018
C307,C308	CCCSL100D2H
C446-C448,C455-C463	CCCSL101J50
C317-C320	CCCSL101K2H

C303,C304	CCCSL151J50
C315,C316	CCCSL5R0C2H
C321,C322	CEANP2R2M50
C211,C212	CEAS100M25
C417,C418	CEAS100M50

C226,C311,C312	CEAS101M10
C313,C314,C423,C424	CEAS101M25
C218,C219	CEAS101M2A
C222	CEAS102M35
C214,C215,C445	CEAS1R0M50

C209	CEAS221M10
C301,C302,C437,C438	CEAS2R2M50
C443,C444	CEAS2R2M50
C220	CEAS332M16
C223	CEAS470M16

C224,C435,C436,C439,C440	CEAS470M25
C464	CEAS470M25
C335,C336	CEAS4R7M2A
C229,C431,C432,C465-C468	CEAS4R7M50
C471-C474,C479,C480	CEAS4R7M50

C489,C490	CEAS4R7M50
C323,C324	CFTXA473J50
C491	CGCYX103M16
C495	CGCYX104M12
C429,C430,C433,C434	CGCYX473M25

C441,C442,C449-C454	CGCYX473M25
C469,C470,C475,C476,C487	CGCYX473M25
C305,C306	CKCYB102K2H
C210	CKCYB102K50
C225,C485,C486	CKCYF103Z50

# VSX-D607S

Mark	No.	Description	Part No.
	C427,C428		CQMA242J50
	C425,C426		CQMA822J50
	C221 (4700μF/35V)		RCH1107

## RESISTORS

△	R343,R344 (0.33Ω/5W)	ACN7001
	R226 (27Ω/5W)	ACN7022
	R319,R320	RD1/4LMF680J
	R315,R316	RD1/4PM104J
	R313,R314	RD1/4PM362J
△	R353,R354	RD1/4PMF100J
△	R327-R334	RD1/4PMF101J
△	R345,R346	RD1/4PMF472J
△	R321,R322	RF1/4PS101J
△	R337-R340	RF1/4PS4R7J
△	R335,R336,R341,R342	RF1/4PS8R2J
	R355,R356	RS1LMF100J
	R460	RS1PMF181J
	R213,R214	RS1PMF271J
	R225	RS3LMF560J
	Other Resistors	RD1/4PU□□□J

## OTHERS

202	3P CABLE HOLDER	51052-0300
218	4P CABLE HOLDER	51052-0400
211	7P CABLE HOLDER	51052-0700
215	8P CABLE HOLDER	51052-0800
205,213	10P CABLE HOLDER	51052-1000
216	11P CABLE HOLDER	51052-1100
214,412	4P CABLE HOLDER	51063-0405
402,403	4P PIN JACK	AKB7014
CN401,CN404	4P PIN JACK	AKB7015
CN201	8P SPEAKER TERMINAL	AKE7006
J402	JAMPER WIRE	DB022ND0
J404	JAMPER WIRE	DB832ND2
CN407	14P PLUG	KM200IA14
CN212	11P PLUG	KM200TA11
CN408	15P PLUG	KM200TA15
CN301	6P PLUG	KM200TA6
CN413	5P PLUG	KM250MA5
CN220	4P JAMPER CONNECTOR	KPD4
CN210	6P JAMPER CONNECTOR	KPD6
CN207	7P JAMPER CONNECTOR	KPD7
CN411	11P JAMPER CONNECTOR	KPE11
CN206,CN409,CN410	15P JAMPER CONNECTOR	KPE15
227	EARTH METAL	VNF-091

## D TRANS ASSY SEMICONDUCTORS

D291,D292	S5688G
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## CAPACITOR

C295	CEAS470M50
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## RESISTORS

All Resistors	RD1/4PU□□□J
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Mark	No.	Description	Part No.
<b>OTHERS</b>			
	292	8P CABLE HOLDER	51052-0800
	291	11P CABLE HOLDER	51052-1100
	H291-H296	FUSE CLIP	AKR1004

## E MOS FET ASSY SEMICONDUCTORS

Q395	IRF540A
Q396	IRF9540A

## RESISTORS

△	R391,R392	RD1/4PMF101J
	Other Resistors	RD1/4PM□□□J

## OTHERS

CN395	11P JAMPER CONNECTOR	KPD10
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## F FRONT INPUT ASSY CAPACITORS

C1984-C1986	CGCYX473M16
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## RESISTORS

R1991,R1992	RS2LMF331J
Other Resistors	RD1/4PU□□□J

## OTHERS

CN1981	3P PIN JACK	AKB7085
CN1991	HEADPHONE JACK	AKN7001
CN1993	5P PLUG	KM250MA5
CN1992	3P JAMPER CONNECTOR	KPD3

## G REG.1 ASSY SEMICONDUCTORS

IC103	NJM78M05FA
IC101	NJM78M15FA
IC102	NJM79M15FA
IC104	PQ20RV1E
D101	1SS252

## CAPACITORS

C107	CEAS101M10
C105,C106	CEAS101M16
C108	CEAS470M10
C104	CEHAQ470M25
C101-C103	CKCYF103Z50

## RESISTORS

R103	RN1/4PC1471F
R102	RN1/4PC8200F
R101	RS3LMF8R2J

## OTHERS

101	6P CABLE HOLDER	51052-0600
102	7P CABLE HOLDER	51052-0700

Mark	No.	Description	Part No.
<b>H DOLBY DIGITAL ASSY</b>			
<b>SEMICONDUCTORS</b>			
	IC9401,IC9431,IC9461	AK4319-VM	
	IC9251	AK5340-VS	
	IC9121	CD0004AF	
	IC9361	KM62V256CLG-7L	
	IC9301	MB86342A	
	IC9201,IC9221	NJM2100M	
	IC9411,IC9441,IC9471,IC9601,IC9621	NJM4558MD	
	IC9641	NJM4558MD	
	IC9501	PA4025A	
	IC9371	TC74HCT244AF	
	IC9103	TC74HCU04AF	
	IC9381	TC74LVX244FS	
	Q9241,Q9401,Q9431,Q9461	2PB709A	
	Q9242,Q9402,Q9432,Q9462	2PD601A	
	Q9201,Q9221,Q9601,Q9611,Q9621	2SC3326	
	Q9631,Q9641,Q9651	2SC3326	
	Q9304	PDTA124EK	
	Q9251,Q9301-Q9303	PDTC124EK	
	D9401,D9431	1SS181	
<b>COILS AND FILTERS</b>			
	F9301,F9302,F9371	ATF7013	
	CHIP EMI FILTER		
	L9301,L9801-L9811	ATL7001	
	CHIP SOLID INDUCTOR		
	L9200,L9201,L9221,L9252-L9254	ATX1026	
	L9402,L9432,L9462,L9601,L9611	ATX1026	
	L9621,L9631,L9641,L9651	ATX1026	
	CHIP SOLID INDUCTOR		
	L9302 CHIP COIL	LCTBR47K2125	
	L9103,L9108,L9121,L9251,L9361	VTL1019	
	L9371,L9380,L9401,L9431,L9461	VTL1019	
	L9661 CHIP SOLID INDUCTOR	VTL1019	
<b>CAPACITORS</b>			
	C9105,C9122,C9126,C9159,C9160	CCSQCH101J50	
	C9255,C9263,C9302,C9309,C9312	CCSQCH101J50	
	C9315,C9318,C9321,C9361,C9381	CCSQCH101J50	
	C9401,C9406,C9431,C9436,C9461	CCSQCH101J50	
	C9466	CCSQCH101J50	
	C9511,C9521,C9541,C9551,C9571	CCSQCH102J50	
	C9606,C9616,C9626,C9636,C9646	CCSQCH102J50	
	C9656	CCSQCH102J50	
	C9413,C9414,C9423,C9424	CCSQCH151J50	
	C9443,C9444,C9453,C9454	CCSQCH151J50	
	C9473,C9474	CCSQCH151J50	
	C9125,C9203,C9223,C9305,C9306	CCSQCH220J50	
	C9412,C9422,C9442,C9452,C9472	CCSQCH221J50	
	C9482	CCSQCH221J50	
	C9151,C9152,C9512,C9522,C9542	CCSQCH271J50	
	C9552,C9572,C9702,C9704	CCSQCH271J50	
	C9603,C9613,C9623,C9633,C9643	CCSQCH391J50	
	C9326,C9392	CCSQCH471J50	
	C9307,C9308,C9375	CCSQCH560J50	
	C9301	CEAS102M6R3	

Mark	No.	Description	Part No.
	C9257		CEAS471M6R3
	C9107,C9128,C9201,C9221,C9403		CEV100M16
	C9405,C9408,C9433,C9435,C9438		CEV100M16
	C9463,C9465,C9468,C9502,C9504		CEV100M16
	C9602,C9605,C9612,C9615,C9622		CEV100M16
	C9625,C9632,C9635,C9642,C9645		CEV100M16
	C9652,C9655		CEV100M16
	C9262		CEV101M6R3
	C9415,C9425,C9445,C9455,C9475		CEV220M16
	C9485		CEV220M16
	C9241		CEV221M4
	C9801,C9802		CEV330M25
	C9111,C9242,C9363,C9373,C9383		CEV470M6R3
	C9371		CKSQYB102K50
	C9101,C9103,C9153,C9154,C9701		CKSQYB103K50
	C9703,C9706,C9707		CKSQYB103K50
	C9121,C9581		CKSQYB104K25
	C9205,C9225		CKSQYB152K50
	C9483,C9484		CKSQYB153K50
	C9582		CKSQYB273K50
	C9653		CKSQYB393K50
	C9106,C9110,C9123,C9127,C9202		CKSQYF104Z25
	C9204,C9222,C9224,C9251,C9253		CKSQYF104Z25
	C9256,C9259,C9303,C9310,C9313		CKSQYF104Z25
	C9316,C9319,C9322,C9324,C9362		CKSQYF104Z25
	C9372,C9382,C9402,C9404,C9407		CKSQYF104Z25
	C9409,C9411,C9421,C9432,C9434		CKSQYF104Z25
	C9437,C9439,C9441,C9451,C9462		CKSQYF104Z25
	C9464,C9467,C9469,C9471,C9481		CKSQYF104Z25
	C9501,C9503,C9601,C9611,C9621		CKSQYF104Z25
	C9631,C9641,C9651		CKSQYF104Z25
<b>RESISTORS</b>			
	All Resistors		RS1/10S□□□□
<b>OTHERS</b>			
	X9301 CRYSTAL RESONATOR	ASS1035	
	(18.432MHz)		
	JA9000 2P PIN JACK	AKB7095	
	PC BOARD DOLBY DIGITAL	ANP7183	
	CN9801 11P SOCKET	KP200TA11L	
	CN9661 15P SOCKET	KP200TA15L	
	CN9301 10P JAMPER CONNECTOR	KPE10	
	JA9104 OPTICAL RECEIVER	TORX176	

## I VOLUME ASSY

### SEMICONDUCTORS

IC701-IC703	UPC4570C
Q705,Q706	2SA1115
Q707,Q708	2SC2603
Q703,Q704	2SK246
Q709,Q710	DTA143ES
Q702	KRA103M
Q701	KRC103M
D701,D703,D705	1SS252

# VSX-D607S

Mark	No.	Description	Part No.
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## CAPACITORS

C720,C721	CCCSL271J50
C703,C704	CCPUSL560J50
C719	CEANP100M50
C722	CEAS220M50
C701,C702,C705-C708	CEAS4R7M50
C711-C714,C717,C718	CEAS4R7M50
C729,C730	CFTXA473J50
C723-C728	CGCYX104M25
C709,C710	CKPUYB181K50
C715	CKPUYB681K50
C716	CKPUYB820K50

## RESISTORS

VR701 (100kΩ)	ACX7028
Other Resistors	RD1/4PU□□□J

## OTHERS

701	15P CABLE HOLDER	51063-1505
CN702	6P SOCKET	KP200TA6L
CN703	9P JAMPER CONNECTOR	KPE9

# J R/C SPEAKER ASSY

## (1) CONTRAST TABLE

AWZ8505 and AWZ8613 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWZ8505	AW8613	
	S151	Not used	ASH1027	

## (2) PARTS LIST FOR AWZ8505

### SEMICONDUCTORS

Q151	2SC1740S
Q163	2SC2878
D151,D152	1SS252

## COILS

L154-L156	AF CHOKE COIL	ATH1004
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## RELAYS

RY151,RY152	ASR7001
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## CAPACITORS

C161,C163,C165	CFTXA473J50
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## RESISTORS

R183-R185	RD1/4PMF100J
R186-R188	RS1LMF100J
Other Resistors	RD1/4PU□□□J

## OTHERS

154	4P CABLE HOLDER	51052-0400
CN152	2P PIN JACK	AKB7001
CN151	6P SPEAKER TERMINAL	AKE7041
CN155	4P JAMPER CONNECTOR	KPD4
CN153	6P JAMPER CONNECTOR	KPD6

Mark	No.	Description	Part No.
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# K R/C AMP ASSY

## SEMICONDUCTORS

△	Q509,Q609,Q610	2SA1321
△	Q517,Q617,Q618	2SA1837
△	Q503,Q603,Q604	2SA970
△	Q505,Q507,Q605-Q608	2SA992
△	Q513,Q613,Q614	2SC1740S
△	Q519,Q619,Q620	2SC2240
△	Q501,Q601,Q602	2SC2878
△	Q511,Q611,Q612	2SC3334
△	Q515,Q615,Q616	2SC4793
	D501,D503,D513,D515,D517	1SS252
	D519,D601-D604,D613-D620	1SS252

## CAPACITORS

C517,C519,C617-C620	CCCSL101K2H
C507,C607,C608	CCCSL120K2H
C503,C603,C604	CCCSL151J50
C515,C615,C616	CCCSL5R0C2H
C521,C621,C622	CEANP2R2M50
C511,C611,C612	CEAS101M10
C513,C613,C614	CEAS101M25
C501,C601,C602	CEAS2R2M50
C505,C605,C606	CKCYB102K2H

## RESISTORS

△	R545,R645,R646 (0.33Ω/5W)	ACN7001
△	R521,R621,R622	RD1/4LMF680J
△	R517,R617,R618	RD1/4PM104J
△	R529,R531,R533,R535	RD1/4PMF101J
△	R629-R636	RD1/4PMF101J
△	R547,R647,R648	RD1/4PMF472J
△	R523,R623,R624	RF1/4PS101J
△	R539,R541,R639-R642	RF1/4PS4R7J
△	R537,R543,R637,R638	RF1/4PS8R2J
△	R643,R644	RF1/4PS8R2J
	Other Resistors	RD1/4PU□□□J

## OTHERS

503	6P CABLE HOLDER	51052-0600
501	9P CABLE HOLDER	51063-0905
CN502	10P JAMPER CONNECTOR	KPD10

# L VIDEO/SR ASSY

## SEMICONDUCTORS

IC851	LA7952
Q801,Q855	2SA933S
Q1898,Q1899,Q851-Q854	2SC1740S
Q802	KRC103M
D801,D802,D851-D853	1SS252

## CAPACITORS

C1853	CEANP4R7M50
C857,C858,C860	CEAS470M25
C854,C856	CEAS471M6R3
C851-C853,C864	CEAS4R7M50
C863	CKCYB102K50
C801	CKCYF103Z50

Mark	No.	Description	Part No.
<b>RESISTORS</b>			
	R860,R861		RD1/4PM331J
	Other Resistors		RD1/4PU□□□□

**OTHERS**

801	2P PIN JACK	AKB7016
802	3P PIN JACK	AKB7018
CN804	4P JAMPER CONNECTOR	KPE4
CN802	7P JAMPER CONNECTOR	KPE7
JA803,JA807		RKN1004
	REMOTE CONTROL JACK	

**M PRIMARY ASSY****(1) CONTRAST TABLE**

AWZ8865 and AWZ8866 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWZ8865	AW8866	
△	T51	ATT7018	ATT1193	
△	C55	ACG7020 (0.01μF/AC250V)	ACG1030 (0.022μF/AC400V)	
△	C56 (0.022μF/AC400V)	Not used	ACG1030	
	R55 (2.2MΩ)	ACN-208	Not used	
	H53,H54 FUSE CLIP	Not used	AKR1004	
	54 EARTH METAL	VNF-091	Not used	

**(2) PARTS LIST FOR AWZ8865****SEMICONDUCTORS**

IC51	NJM78M56FA
Q51	KRC101M
D54,D55	1SS252
D53	MTZJ5.1A
D51	S5688G

**COIL**

△	L52	LINE FILTER	ATF1006
---	-----	-------------	---------

**TRANSFORMER**

△	T51	ATT7018
---	-----	---------

**RELAY**

△	RY51	ASR1044
---	------	---------

**CAPACITORS**

△	C54,C55 (0.01μF/AC250V)	ACG7020
	C53	CEAS470M16
	C52	CEAS471M16
	C51	CGCYX103M25

**RESISTORS**

	R55 (2.2MΩ)	ACN-208
	R54	RD1/2PM270J
	Other Resistors	RD1/4PU□□□□

**OTHERS**

△	53	1P AC OUTLET	AKP1060
	H51,H52	FUSE CLIP	AKR1004
	CN51	4P JAMPER CONNECTOR	KPE4
	54	EARTH METAL	VNF-091

Mark	No.	Description	Part No.
<b>N REG.2 ASSY</b>			
<b>SEMICONDUCTORS</b>			

IC282	NJM78M05FA
IC281	NJM78M12FA

**CAPACITORS**

C282	CEAS101M10
C281	CEAS101M16
C284	CEHAQ470M50
C283	CGCYX103M25

**RESISTOR**

△	R228	RS2LMF331J
---	------	------------

**OTHERS**

281	7P CABLE HOLDER	51052-0700
-----	-----------------	------------

**O FM/AM TUNER MODULE****(1) CONTRAST TABLE**

AXQ7219 and AXQ3112 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AXQ7219	AXQ3112	
	F6202 AM CERAMIC FILTER	ATF1156	ATF1155	
	C6230	CKSQYB393K50	CKSQYB333K50	
	C6232	CKSQYB393K50	CKSQYB333K50	
	BN6201	AKE7028	AKA1016	
	4P ANTENNA TERMINAL			

**(2) PARTS LIST FOR AXQ7219****SEMICONDUCTORS**

IC6201	LA1836M
IC6202	LM7001J
Q6102	2SC2223
Q6203	2SC2235
Q6202	2SC2712

Q6103,Q6214	2SC2714
Q6201	2SK208
Q6104	2SK302
Q6101	3SK194
Q6204	XDA124EK

Q6217	XDC124EK
D6101,D6102	1T33

**COILS AND FILTERS**

L6104	FM COIL	ATC1003
L6101	FM RF COIL	ATC1020
L6102	FM RF COIL	ATC1021
L6207	FM COIL	ATE1013
F6203,F6204	FM CERAMIC FILTER	ATF-119

F6101	FM BAND PASS FILTER	ATF-155
F6202	AM CERAMIC FILTER	ATF1156
L6103	CHIP COIL	ATH1043
L6202,L6203,L6208	CHIP COIL	LCTA2R2J3225

**TRANSFORMER**

T6101	ATE-063
-------	---------

# VSX-D607S

Mark	No.	Description	Part No.
------	-----	-------------	----------

## CAPACITORS

C6202,C6234,C6236 (1μF/16V)	ACG1051
C6229	CCSCH821J50
C6107	CCSCK1R0C50
C6108,C6203,C6268	CCSQCH101J50
C6111,C6116,C6208,C6221,C6222	CCSQCH150J50
C6115	CCSQCH330J50
C6101	CCSQCH5R0C50
C6110	CCSQCK2R0C50
C6114	CCSQRH080D50
C6113	CCSQRH180J50
C6105	CCSQTH150J50
C6224,C6246,C6262	CEAS100M50
C6227	CEAS101M10
C6261	CEAS1R0M50
C6216,C6217	CEAS330M16
C6231,C6233	CEAS3R3M50
C6219	CEAS470M10
C6243-C6245	CEAS470M16
C6238	CEJA100M16
C6249,C6250	CEJA4R7M35
C6215	CFTXA103J50
C6214	CFTXA224J50
C6103,C6106,C6112,C6204	CKSQYB102K50
C6102,C6109,C6117,C6210,C6264	CKSQYB103K50
C6213	CKSQYB223K50
C6230	CKSQYB393K50
C6228,C6252	CKSQYB472K50
C6209,C6237,C6265,C6267	CKSQYB473K50
C6212,C6218	CKSQYF103Z50
C6220,C6226,C6239,C6242,C6255	CKSQYF223Z50
C6235	CKSQYF224Z25
C6225,C6241,C6266	CKSQYF473Z50
C6232	CKSYB393K50
C6251	CKSYB472K50
C6223	CKSYF103Z50
C6263	CKSYF473Z50

## RESISTORS

R6299,R6300	RD1/4PU102J
R6113,R6116,R6118,R6268-R6271	RS1/8S0R0J
R6275,R6276,R6278,R6283,R6284	RS1/8S0R0J
R6290,R6293,R6294,R6297	RS1/8S0R0J
R6243,R6244	RS1/8S101J
R6211	RS1/8S103J
R6237	RS1/8S182J
R6209	RS1/8S221J
R6239	RS1/8S332J
R6101	RS1/8S470J
VR6201 (10kΩ)	ACP1056
VR6202	VRTB6VS223
Other Resistors	RS1/10S□□□J

## OTHERS

X6203	CRYSTAL RESONATOR	ASS1042
	(7.2MHz)	
X6201	CERAMIC RESONATOR	ASS1066
	(456kHz)	
X6202	CERAMIC RESONATOR	ATF1027
	(450kHz)	
BN6201	4P ANTENNA TERMINAL	AKE7028
CN6201	14P SOCKET	KP200IA14L
	AM RF TUNING BLOCK	AXX1025

## 6. ADJUSTMENT

### 6.1 TUNER ADJUSTMENT

#### ■ ADJUSTMENT OF FM TUNER SECTION

- Set the FM/AM selector to FM BAND.
- Connect the wiring as shown in Fig. 6-1.

Step No.	Adjustment Title	FM SG (1kHz, $\pm 75$ kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dB $\mu$ V)			
1	Center Adjustment	98 Non modulation	80 or more	—	L6207	Adjust so that the DC voltage between IC6201-pin 4 and pin 28 (or $\oplus$ leads of C6224 and C6261) becomes $0V \pm 50mV$ .
2	Front End Sensitivity Adjustment	98	Low input (0 to 30)	98MHz	L6102 T6101	Adjust so that the DC voltage between IC6201-pin 12 and GND (or $\oplus$ leads of C6238 and GND) becomes at maximum level.
3	Stereo Distortion	98	80	98MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
4	TUNED IND. Lighting Level	98	15 ( $\pm 2$ dB)	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Notes:

- Before adjusting, make sure there is no gap between L6101 and L6102. If there is a gap between them, bring them into contact with each other first, and then make adjustments.
- Make indicator adjustments in order of AM→FM.

#### ■ ADJUSTMENT OF AM TUNER SECTION

- Set the FM/AM selector to AM BAND.
- Connect the wiring as shown in Fig. 6-1.

Step No.	Adjustment Title	AM SG (400Hz, $\pm 30\%$ Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dB $\mu$ V/m)			
1	TUNED IND. Lighting Level	999 *1	47 ( $\pm 2$ dB)	999kHz *1	VR6202	Adjust so that the indicator of TUNED IND. starts to light up.

\*1 : For the area using 10kHz step, frequencies should be 1000kHz.

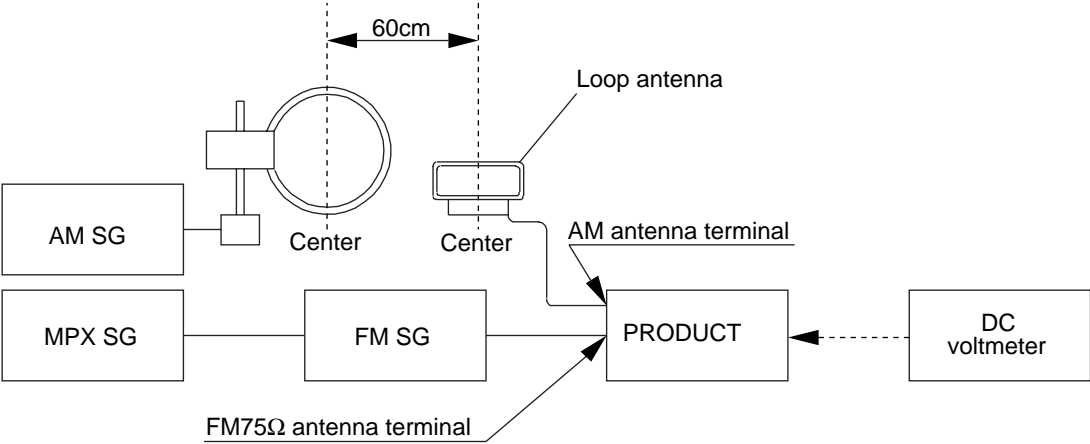


Fig.6-1 AM and FM Adjustment Wiring Diagram

FM/AM TUNER MODULE

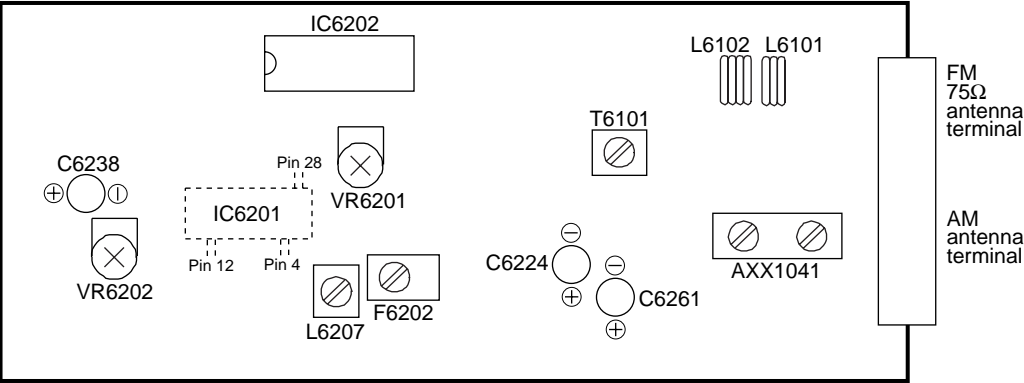





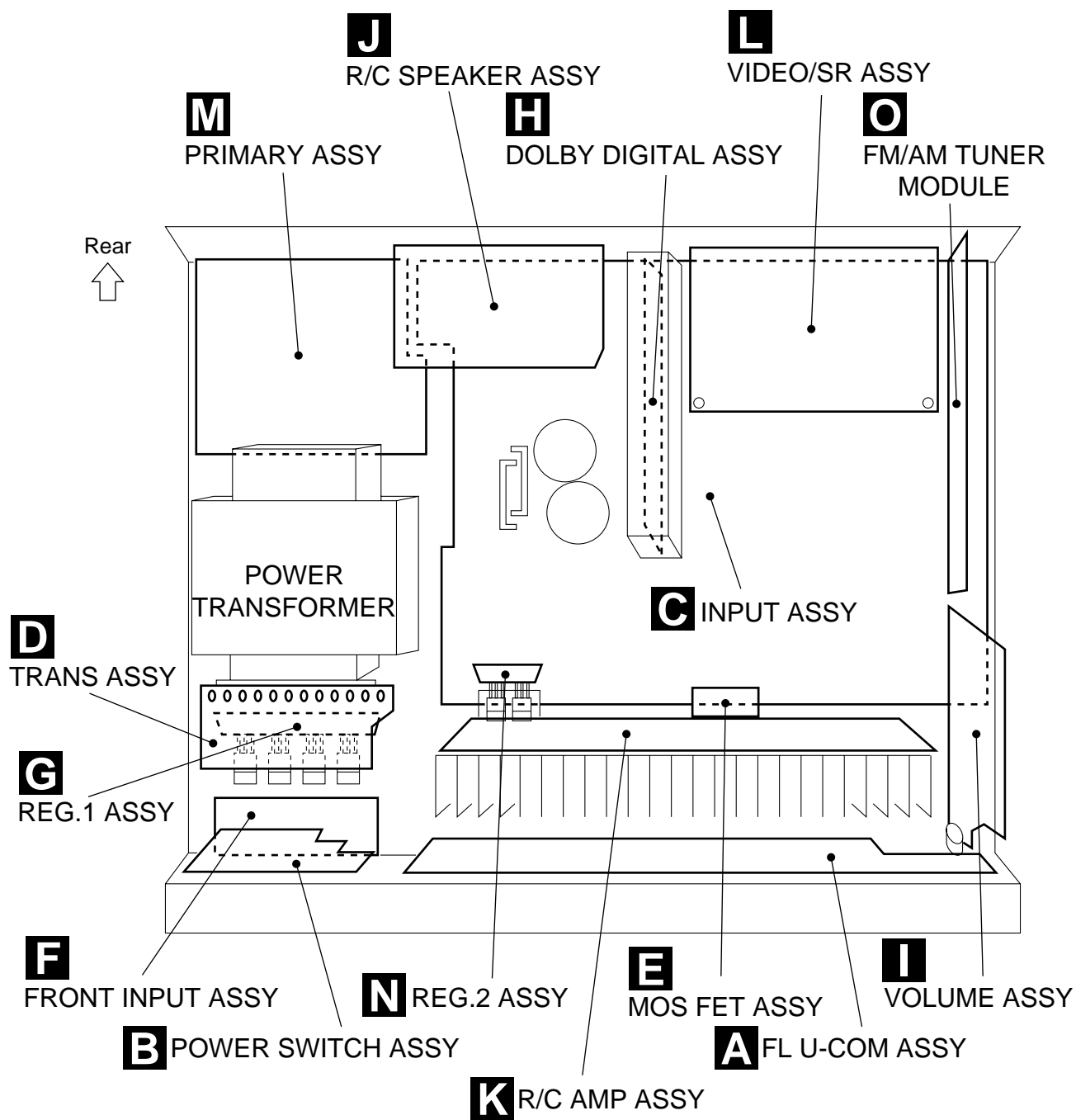
Fig.6-2 Adjustment Points



## ● Anode Connection

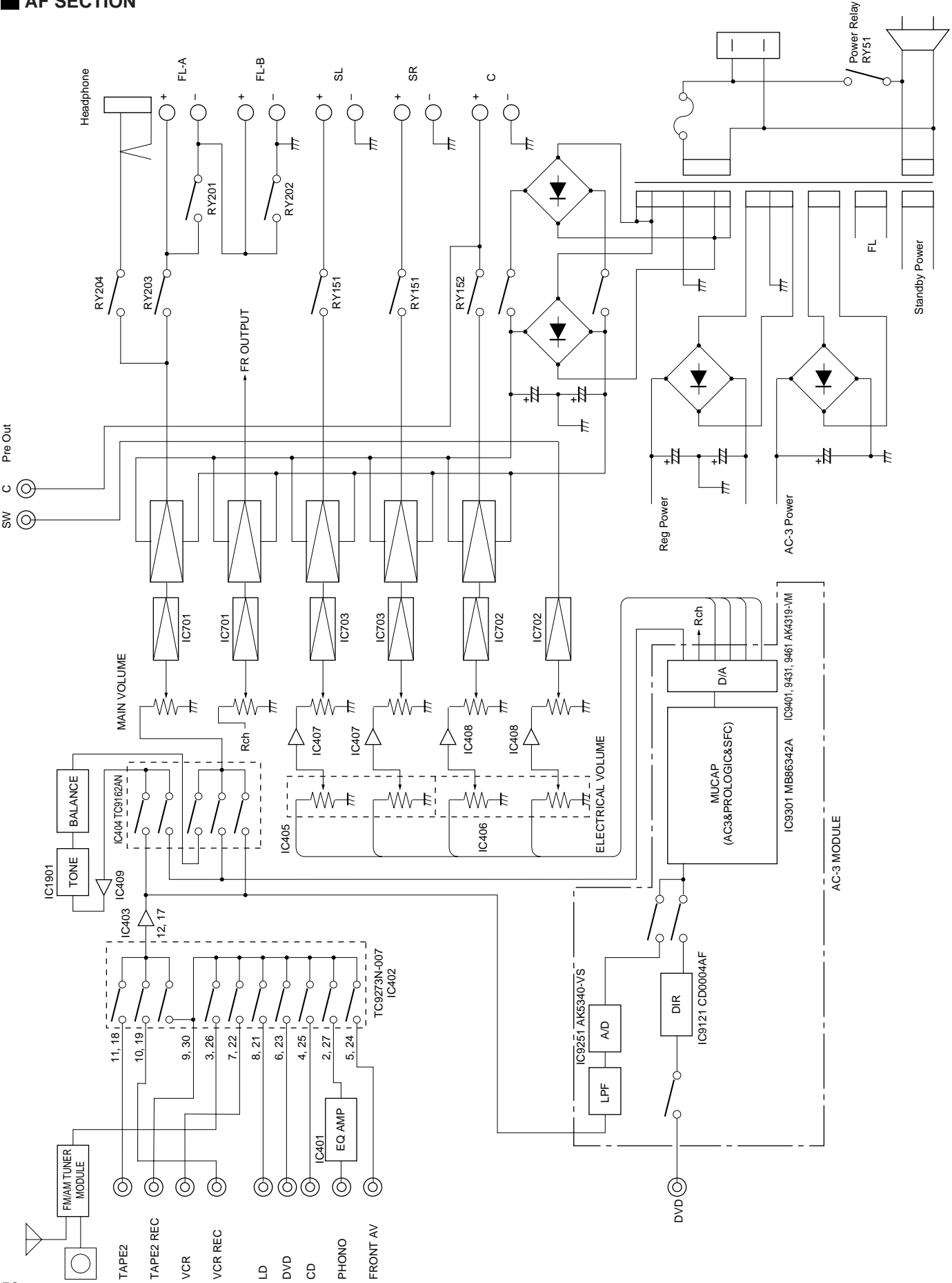
	12G	11G	10G	9G~2G	1G
P1	DOLBY		MONO	a1	2b, 2c
P2	DIGITAL	•	TUNED	a2	2g
P3	R	FM	STEREO	h	2d
P4	LS RS	AM	RFATT	j	2e
P5	(Ls) (Rs)	DELAY	RDS	k	2f
P6	LFE	B	EON	b	1a
P7	(LFE)	A	3	f	1b
P8	C	SP▷	2	m	1f
P9	(C)	LOUDNESS	1	g	1g
P10	S	PRO LOGIC	EON	c	1c
P11	L	-	CLASS▷	e	1h
P12	(L)	-	TAPE 2	r	1e
P13	OVERLOAD	-	DIRECT	p	1d
P14		-	SFC	n	ch
P15	AC-3 RF	-	DSP MODE	d1	MEMORY
P16	DIGITAL	-	-	d2	SEARCH
P17	ANALOG	-	-	Dp1	CHARA
P18	AUTO	-	-	S1, S3	GUI
P19	ATT	-	-	S4	FREQ
P20	-	-	-	S2	ST
P21	-	-	-	Dp2	JOG MODE 

## 7.2 PCB LOCATION



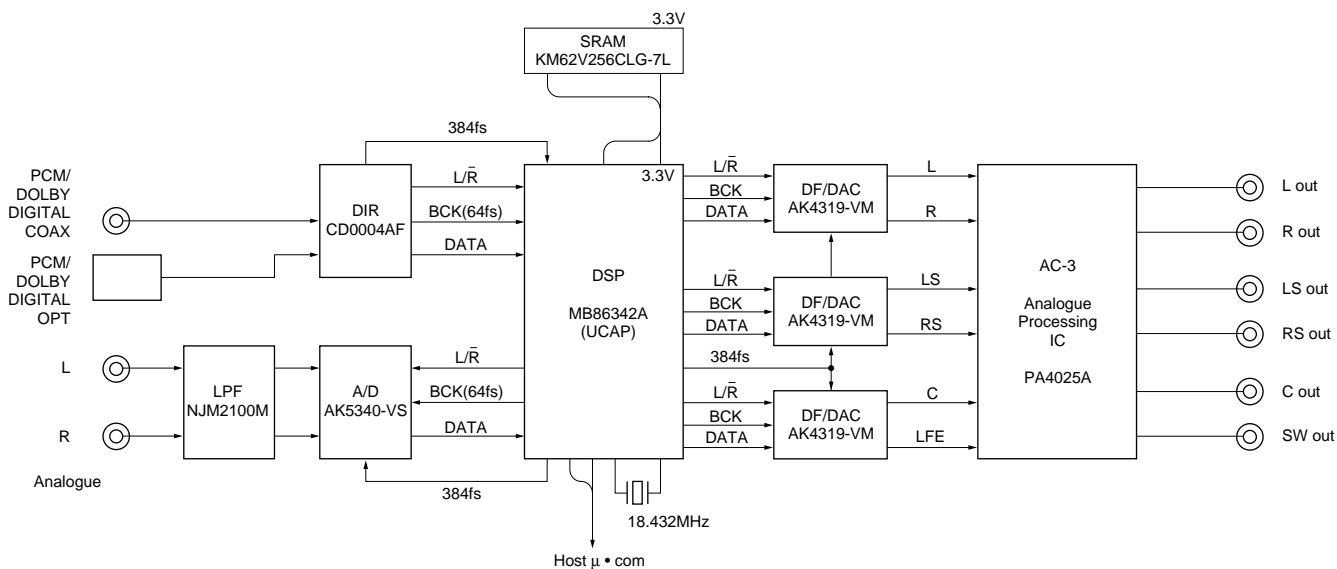
7.3 BLOCK DIAGRAM

AF SECTION

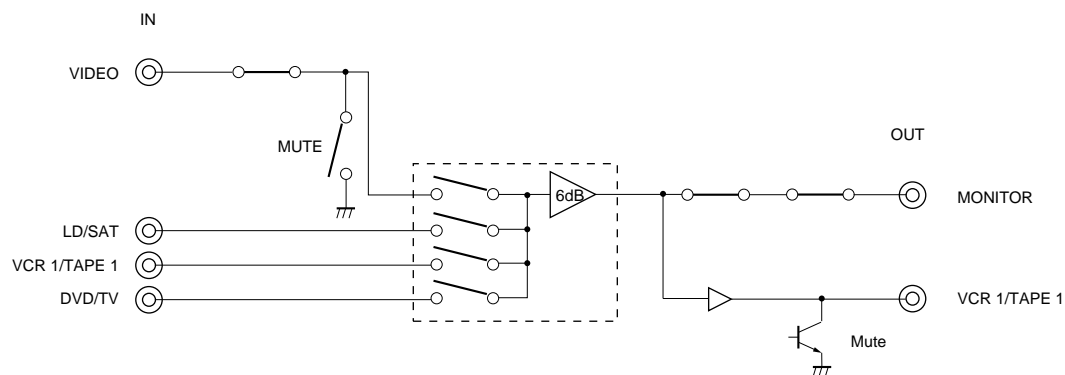


## ■ AC-3 DECODE ASSY AND VIDEO COMPOSITE SECTION

### ● AC-3 DECODE ASSY




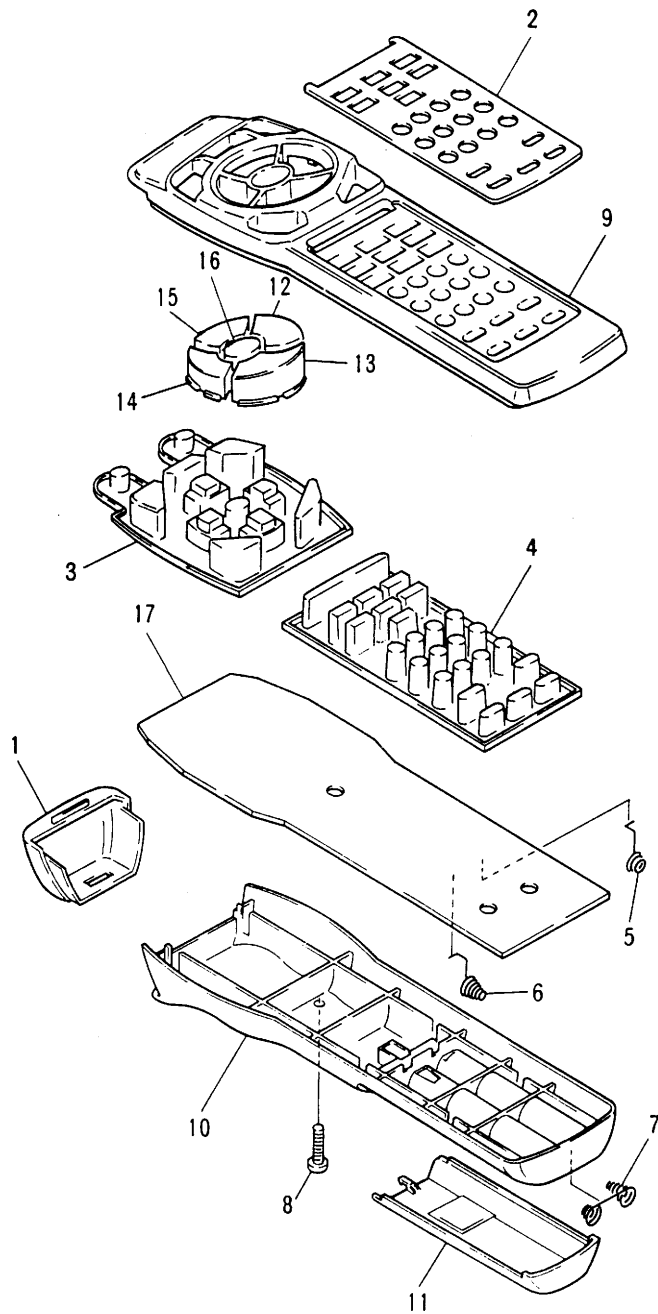
### ● VIDEO COMPOSITE SECTION



7.4 REMOTE CONTROL UNIT [CU-VSX128 (AXD7153)]

7.4.1 EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.  
● The  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.

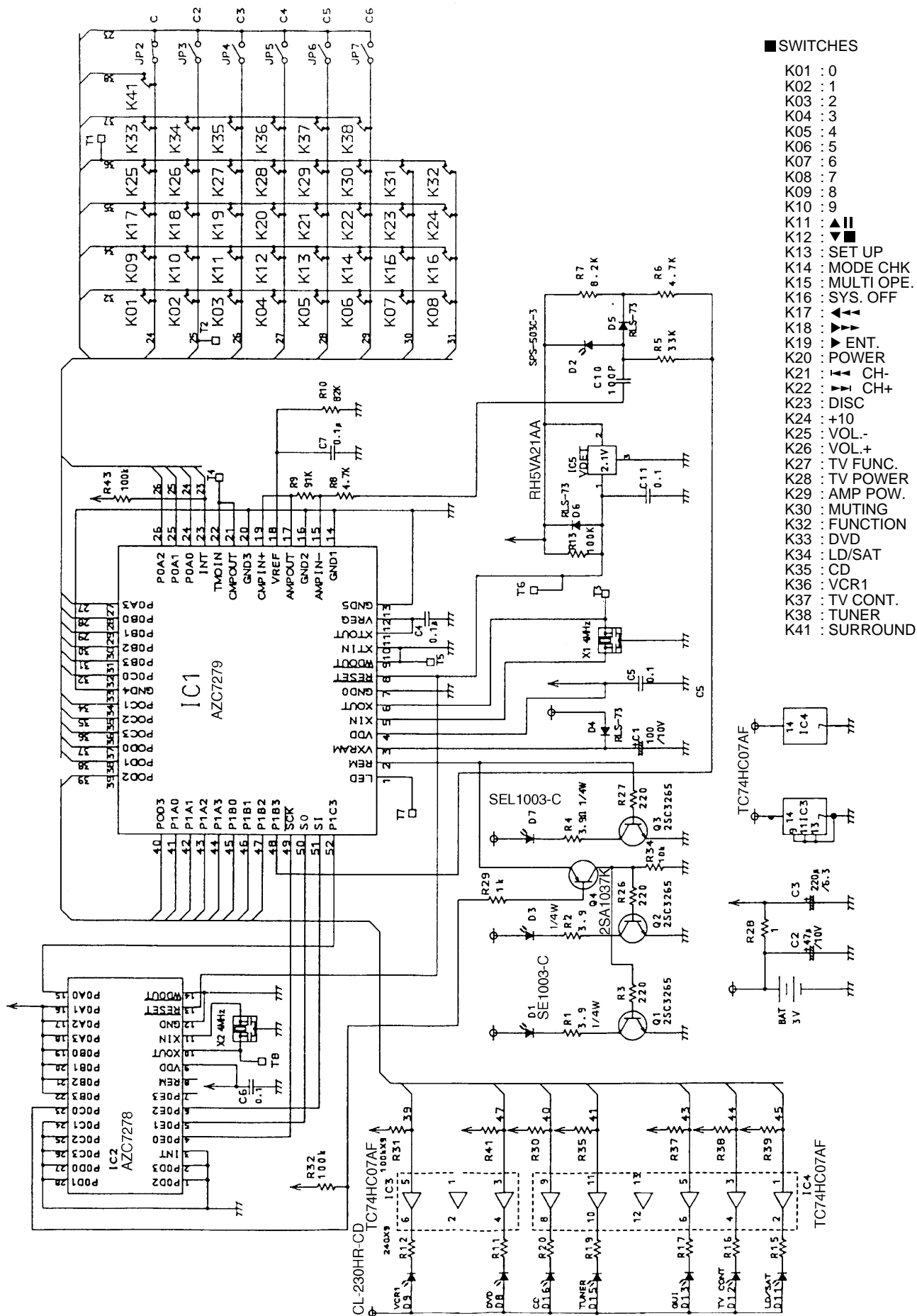


● Parts List

Mark	No.	Description	Part No.
	1	Filter	AZA7152
	2	Name Plate	AZA7283
	3	Rubber Sheet (A)	AZA7236
	4	Rubber Sheet (B)	AZA7243
	5	Spring (+)	AZB7049
	6	Spring (-)	AZB7050
	7	Spring	AZB7051
	8	Screw	AZB7052
	9	Remo-con Case (A)	AZN7672
	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

## 7.4.2 SCHEMATIC DIAGRAM

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



## A



## 7.4.4 PCB 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.

●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 ..... RD1/4PU  $\boxed{5} \boxed{6} \boxed{1} J$

47k  $\Omega$   $\rightarrow$   $47 \times 10^3$   $\rightarrow$  473 ..... RD1/4PU  $\boxed{4} \boxed{7} \boxed{3} J$

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

1  $\Omega$   $\rightarrow$  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  $\Omega$   $\rightarrow$   $562 \times 10^1$   $\rightarrow$  5621 ..... RN1/4PC  $\boxed{5} \boxed{6} \boxed{2} \boxed{1} F$

Mark	No.	Description	Part No.
------	-----	-------------	----------

### SEMICONDUCTORS

IC1	AZC7279
IC2	AZC7278
IC3,IC4	TC74HC07AF
IC5	RH5VA21AA
Q4	2SA1037K
Q1-Q3	2SC3265
D1,D3,D7	SE1003-C
D2	SPS-503C-3
D8,D9,D11-D13,D15,D16	CL-230HR-CD
D4-D6	RLS-73

### CAPACITORS

C2	CEAS470M10
C4-C7,C11	CKSQYB104K25
C3	CEAS221M6R3
C1	CEAS101M6R3
C10	CCSQCH101J50

### RESISTORS

R2001,R2002	RS1/8S0R0J
R1,R2,R4	RS1/8S3R9J
Other Resistors	RS1/10S $\square \square \square J$

### OTHERS

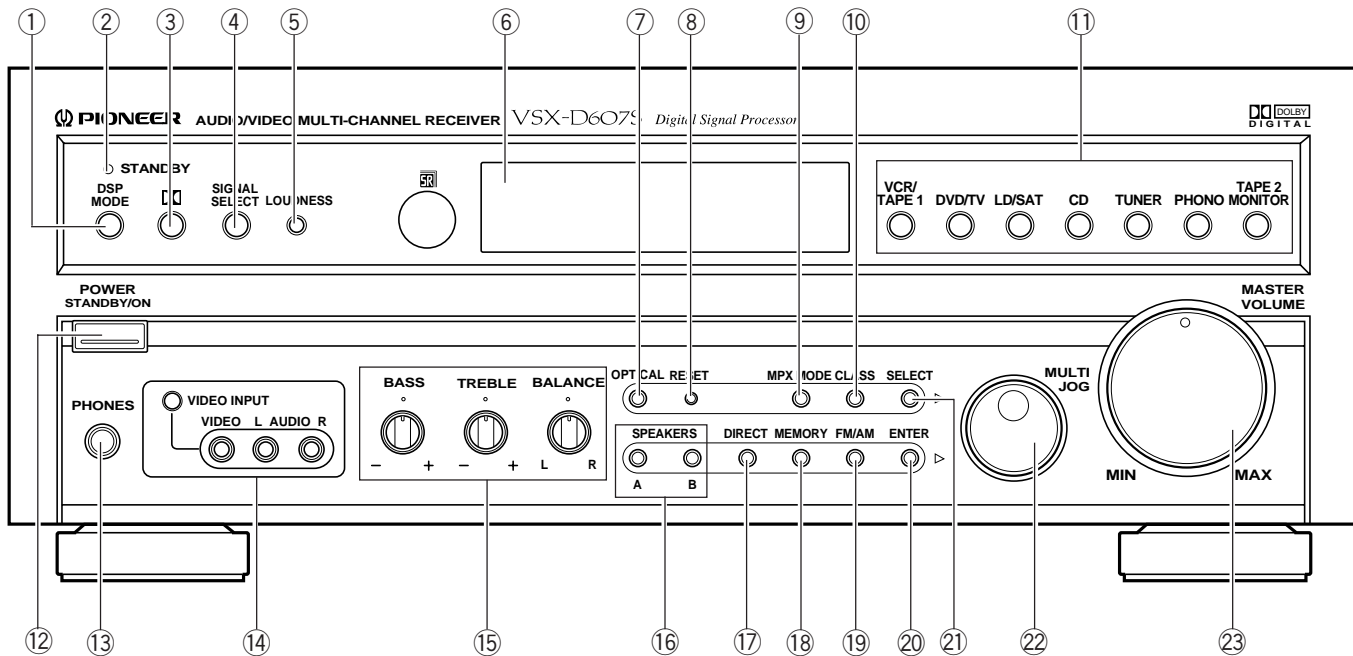
X1,X2 RESONATOR (4MHz)	KBR-4.0M
------------------------	----------

## 8. PANEL FACILITIES AND SPECIFICATIONS

### NAMES OF PARTS

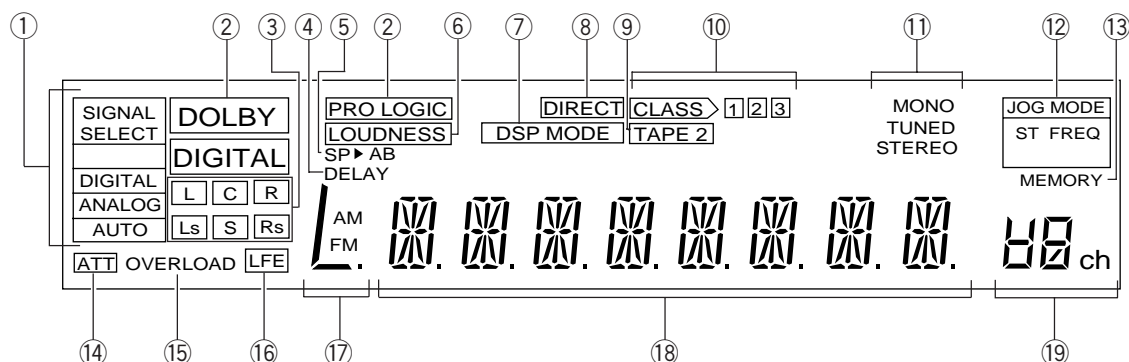
\* The size of characters shown in the figure may differ from that on the actual product.

#### Front panel



- |   |   |
|---|---|
| <p>① <b>DSP MODE button</b></p> <p>② <b>STANDBY indicator</b></p> <p>③ <b> button</b></p> <p>④ <b>SIGNAL SELECT button</b></p> <p>⑤ <b>LOUDNESS button</b><br/>Press this button when the volume is low to raise the low and high range levels so that the sound can be heard more easily.</p> <p>⑥ <b>Display</b></p> <p>⑦ <b>OPTICAL button</b></p> <p>⑧ <b>RESET button</b></p> <p>⑨ <b>MPX MODE button</b><br/>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.</p> <p>⑩ <b>CLASS button</b></p> <p>⑪ <b>Function buttons</b></p> <p>⑫ <b>POWER STANDBY/ON button</b></p> <p>⑬ <b>PHONES jack (Headphone terminal)</b></p> <p>⑭ <b>VIDEO INPUT button/terminal</b><br/>Connect to a video camera, etc.</p> <p>⑮ <b>TONE and BALANCE controls</b><br/>Use to adjust tone and balance.</p> <p>⑯ <b>SPEAKERS A, B buttons</b><br/>ON/OFF switches for the A and B speaker systems.</p> | <p>⑰ <b>DIRECT button</b><br/>Use to play back sound without going through the tone and balance control circuits. DOLBY SURROUND MODE, DSP MODE and LOUDNESS also turn off.</p> <p>⑱ <b>MEMORY button</b></p> <p>⑲ <b>FM/AM button</b><br/>Use to switch the FM/AM frequency band reception.</p> <p>⑳ <b>ENTER button</b></p> <p>㉑ <b>SELECT button</b><br/>Use to switch the control of the MULTI JOG between station mode and frequency mode when operating the tuner.</p> <p>㉒ <b>MULTI JOG</b><br/>Use to select the frequency and station number when operating the tuner.</p> <p>㉓ <b>MASTER VOLUME</b></p> |
|---|---|

## Display



### ① SIGNAL SELECT indicators

The input signal format currently selected will light .

### ② DOLBY DIGITAL and PRO LOGIC indicators

"DOLBY" lights when the Dolby Surround mode is ON. There are two Dolby Surround modes-Dolby Digital (AC-3) and Dolby Pro Logic. "DOLBY" and "DIGITAL" light during Dolby Digital, and "DOLBY" and "PRO LOGIC" light when played back in Dolby Pro Logic.

### ③ PROGRAM FORMAT indicators

When playing back in the Dolby Digital (AC-3) mode, the indicator of the channel set for the playback source lights.

### ④ DELAY indicator

Lights when the delay time is being set.

### ⑤ Speakers A, B indicator

The indicator of the speaker system (A, B) selected will light.

### ⑥ LOUDNESS indicator

Lights when LOUDNESS is ON.

### ⑦ DSP MODE indicator

Lights when DSP MODE is selected.

### ⑧ DIRECT indicator

Lights when DIRECT is ON.

### ⑨ TAPE 2 indicator

Lights when TAPE 2 MONITOR is ON.

### ⑩ CLASS 1, 2, 3 indicators

The indicator of the class number selected lights.

### ⑪ 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.

### ⑫ JOG MODE indicator

**ST:**

Lights when the station mode is selected.

**FREQ:**

Lights when the frequency mode is selected.

### ⑬ MEMORY indicator

Lights when station memory is selected.

### ⑭ ATT indicator

Lights when INPUT ATT is ON.

### ⑮ OVERLOAD indicator

Lights if the input level is excessive when ANALOG is selected (including AUTO) using the SIGNAL SELECT button.

### ⑯ LFE indicator

"LFE" lights when the LFE (Low Frequency Effects) channel is set for the playback source with Dolby Digital. The [LFE] indicator also lights when LFE signals are input.

### ⑰ AM/FM indicators

The indicator of the band currently selected (AM/FM) lights.

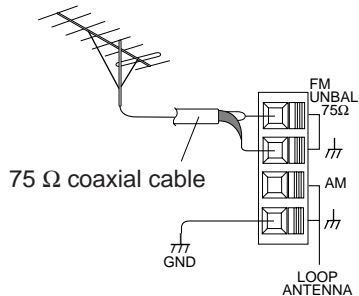
### ⑱ CHARACTER display

### ⑲ STATION display

Indicates the station number currently selected.

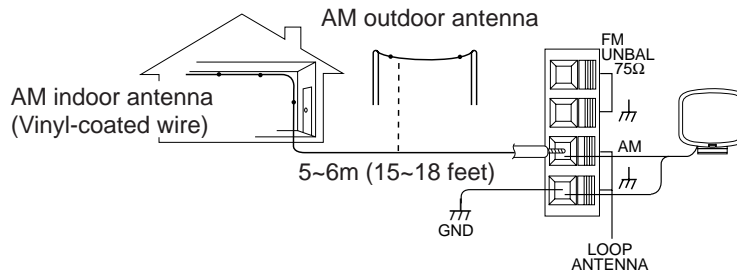
## CONNECTING DEVICES

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

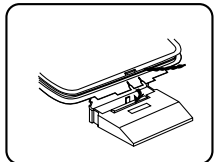


### ■ When AM broadcast reception is poor

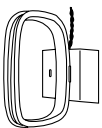
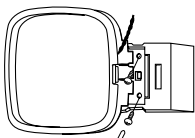
Connect a 5 to 6 meter (15~18 feet) long vinyl-coated wire to the AM antenna. If possible, draw horizontally outdoors to achieve better reception.



## ■ Assembling the AM loop antenna

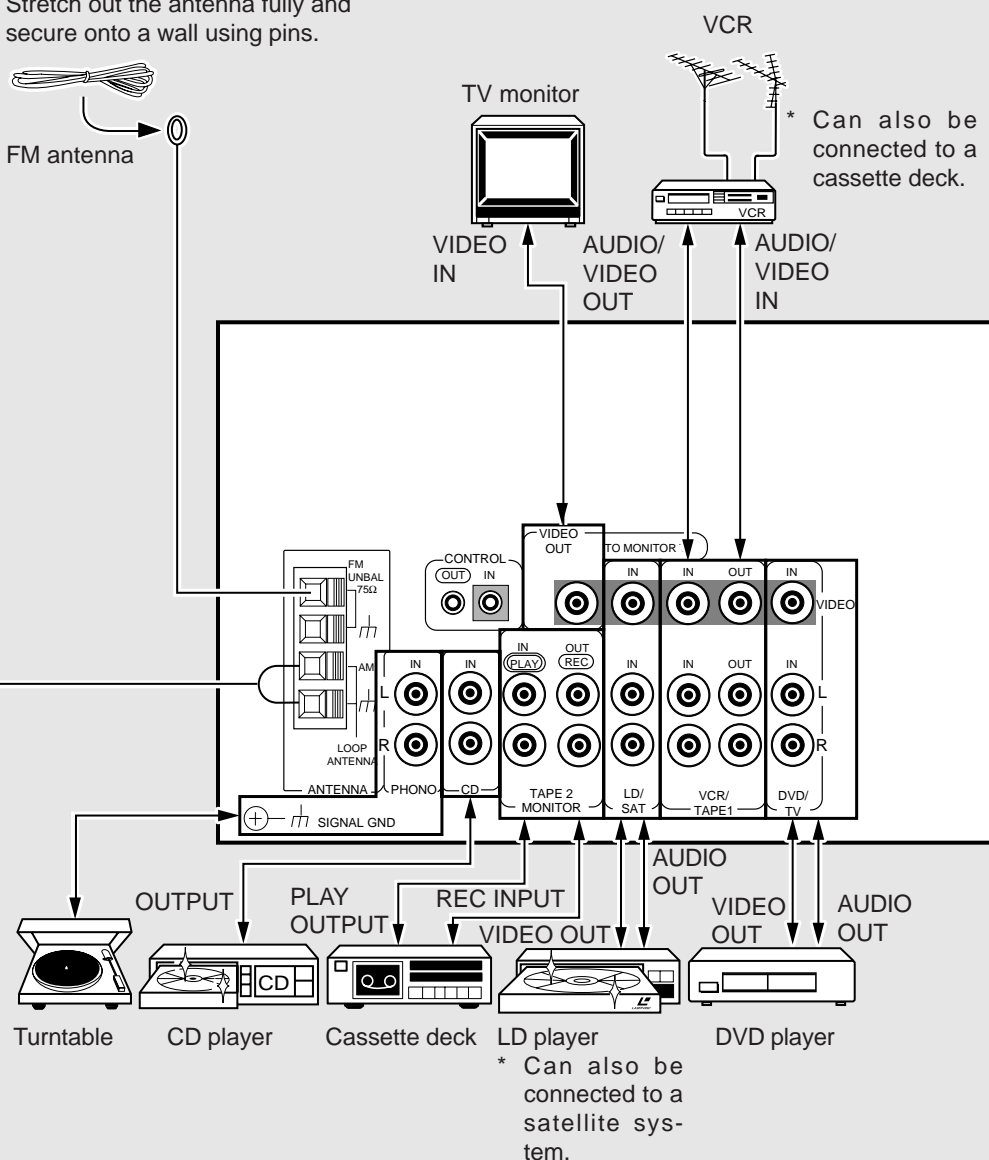
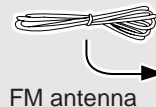


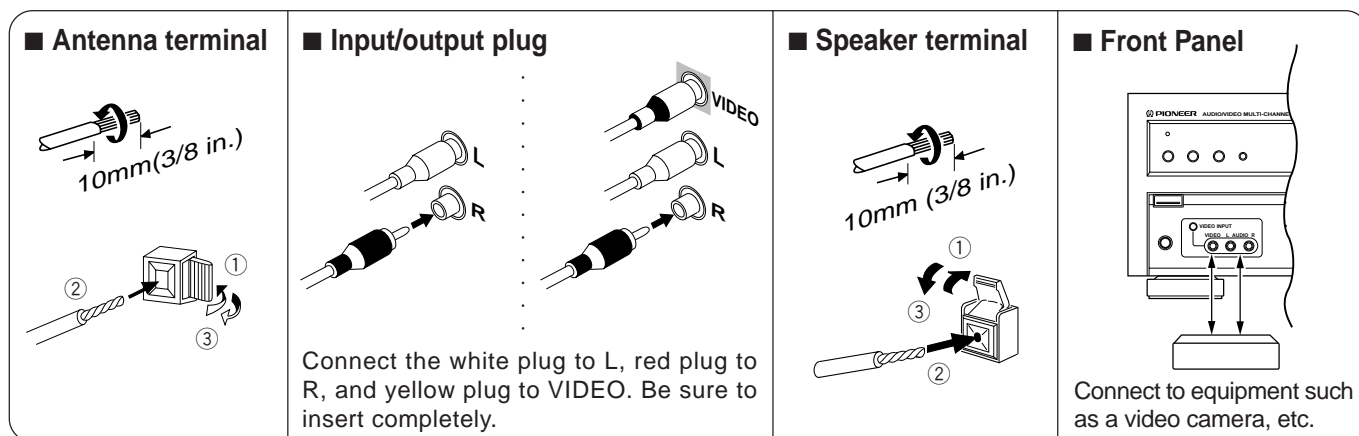
When attached onto a wall, etc.



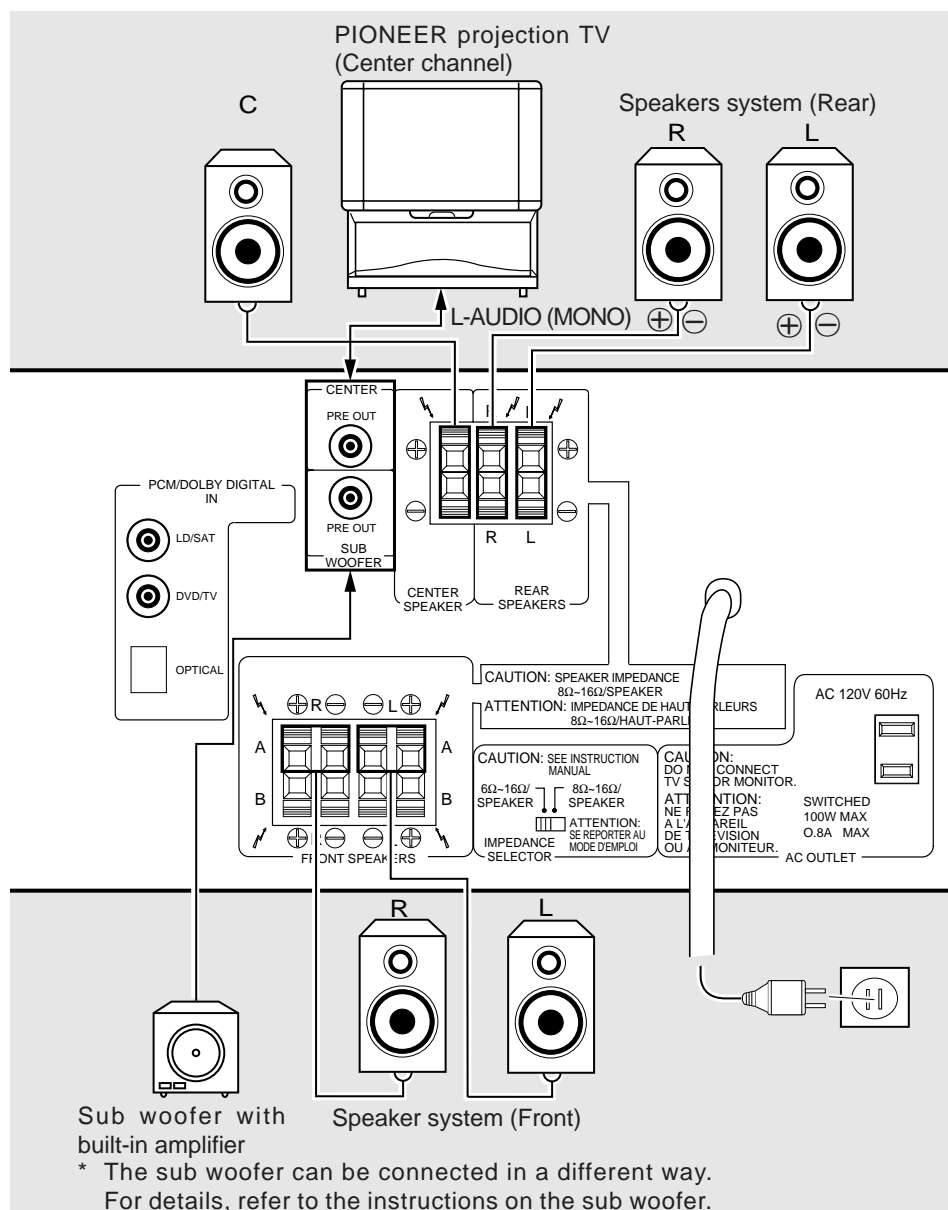
Face towards the direction with the best reception.

Stretch out the antenna fully and secure onto a wall using pins.





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



\* The sub woofer can be connected in a different way. For details, refer to the instructions on the sub woofer.

## AC OUTLET [SWITCHED 100 W (0.8 A) MAX]

Power supplied through this outlet is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W (0.8 A).



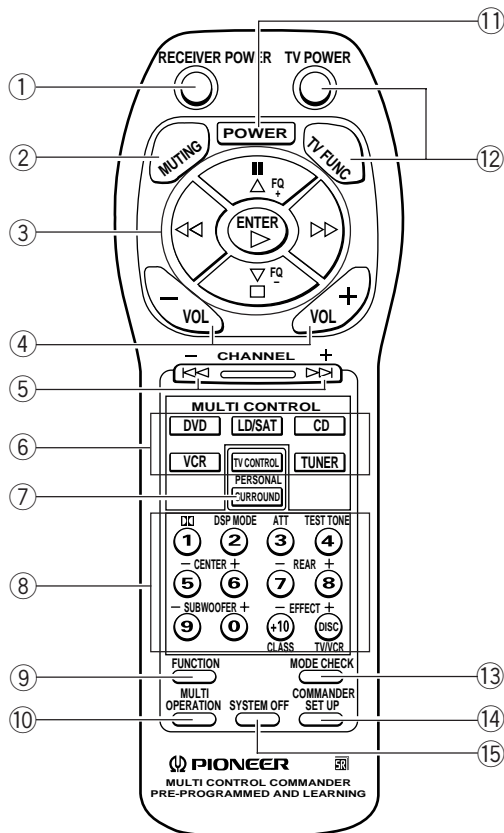
- This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g., when on vacation.
- Do not connect appliances with high power consumption such as heaters, irons, or television sets to this AC OUTLET in order to avoid overheating and fire risk. This can also cause the receiver to malfunction.

**CAUTION:**  
**DO NOT CONNECT A MONITOR OR TV SET TO THIS UNIT'S AC OUTLET.**



Use nominal impedances such as 6 Ω to 16 Ω or 8 Ω to 16 Ω for the speaker system. When using 6 Ω to 16 Ω, switch the IMPEDANCE SELECTOR to 6 Ω to 16 Ω.

## Remote control unit



- ① **RECEIVER POWER button**
- ② **MUTING button**  
Press to mute the volume.
- ③ **[When set to SURROUND (OPERATIONS)]**  
 $\Delta$ ,  $\nabla$ ,  $\triangleleft$ ,  $\triangleright$  (Select/Adjust) and ENTER buttons  
**[When set to other than SURROUND (OPERATIONS)]**  
 $\square$  (Pause),  $\square$  (Stop),  $\triangleleft\triangleleft$  (Rewind),  $\triangleright\triangleright$  (Fast Forward),  $\triangleright$  (Play) buttons
- ④ **VOL (-, +) buttons**
- ⑤ **[TV Operations]**  
Selects the TV broadcast channel.  
**[CD, LD, DVD operations]**  
 $\triangleleft\triangleleft$ ,  $\triangleright\triangleright$  (Chapter/Track Search) buttons
- ⑥ **MULTI CONTROL function buttons**  
Use to set and operate MULTI CONTROL, and switch the function.  
TV CONTROL: Press to operate the TV.

- ⑦ **SURROUND/PERSONAL button**  
**[When setting MULTI operations]**  
Press when setting the personal mode using multi operations.  
**[When setting to other than MULTI operations]**  
Press when performing surround operations and setting/changing setting modes.
- ⑧ **Number/surround setting buttons**  
**[When setting surround (operations)]**  
 $\square$  : Turns the Dolby Surround mode ON/OFF.  
DSP MODE: Switches the surround effects.  
ATT: If turned ON when the sound is unstable due to excessive input levels, the input signal level drops so that the sound becomes clearer.  
TEST TONE: When turned ON (while in surround mode), volume balance adjustment signals are output in order from the speakers and can be adjusted.  
CENTER -, +: Adjusts the center level.  
REAR -, +: Adjusts the rear level.  
SUB WOOFER -, +: Adjusts the sub woofer level.  
EFFECT -, +: Adjusts DSP effects.
- [Tuner Operations]**  
Number buttons: Use for setting the frequency value when station call is selected or during direct access.  
CLASS: Switches the CLASS number.
- [VCR Operations]**  
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 set multi operations.
- 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.

## SPECIFICATIONS

### Amplifier Section

**Continuous average power output of 100 watts\* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 %\*\* total harmonic distortion (front).**

#### Continuous Power Output

Front .....	100 W + 100 W (1 kHz, 0.8 %, 8 Ω)
Center .....	100 W (1 kHz, 0.8 %, 8 Ω)
Rear .....	100 W (1 kHz, 0.8 %, 8 Ω)

#### Input (Sensitivity/Impedance)

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

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

PHONO MM .....	100 mV
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#### Frequency Response

PHONO MM .....	20 Hz to 20,000 Hz $\pm$ 0.3 dB
LD/SAT, CD, VCR/TAPE 1, TAPE 2	
DVD/TV, VIDEO .....	5 Hz to 100,000 Hz $\pm$ 0.3 dB

#### Output (Level/Impedance)

VCR/TAPE 1 REC, TAPE 2 REC .....	200 mV/2.2 kΩ
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#### Tone Control

BASS .....	$\pm$ 9 dB (100 Hz)
TREBLE .....	$\pm$ 9 dB (10 kHz)

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

PHONO MM .....	75 dB
LD/SAT, CD, VCR/TAPE 1, TAPE 2, DVD/TV, VIDEO .....	97 dB

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

PHONO MM .....	75 dB
LD/SAT, CD, VCR/TAPE 1, TAPE 2, DVD/TV, VIDEO .....	80 dB

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

\*\* Measured by Audio Spectrum Analyzer.

### VIDEO Section

#### Input (Sensitivity/Impedance)

LD/SAT, VCR, DVD/TV, VIDEO .....	1 Vp-p/75 Ω
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#### Output (Level/Impedance)

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

LD/SAT, VCR, DVD/TV, VIDEO	
→ MONITOR .....	5 Hz to 7 MHz $\pm$ 0.3 dB

#### Signal-to-Noise Ratio .....

	55 dB
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#### Cross Talk .....

	55 dB
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### FM Tuner Section

Frequency Range .....	87.5 MHz to 108 MHz
Usable Sensitivity .....	Mono: 11.2 dBf, IHF (1.0 μV/75 Ω)
50 dB Quieting Sensitivity .....	Mono: 16.8 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 % (1kHz)
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 .....	531 kHz to 1,602 kHz (9 kHz step)
	530 kHz to 1,700 kHz (10 kHz step)
Sensitivity (IHF, Loop antenna) .....	350 μV/m
Selectivity .....	25 dB
Signal-to-Noise Ratio .....	50 dB
Antenna .....	Loop antenna

### Miscellaneous

Power Requirements .....	AC 120 V, 60 Hz
Power Consumption .....	280 W, 400 VA
In Standby Condition .....	2.5 W
AC Outlet	
SWITCHED .....	100 W (0.8 A) MAX
Dimensions .....	420 (W) × 158 (H) × 374 (D) mm
	16-9/16 (W) × 6-1/4 (H) × 14-3/4 (D) in.
Weight (without package) .....	9.4 kg (20 lb 12 oz)

### Furnished Parts

FM Antenna .....	1
AM Loop Antenna .....	1
Dry Cell Batteries (AA/LR6) .....	2
Remote Control Unit .....	1
Operating Instructions .....	1
Sub Instruction Manual (Remote Control Unit) .....	1
Sub Instruction Manual [Dolby Digital (AC-3)] .....	1

### NOTE:

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

## • ACCESSORIES

