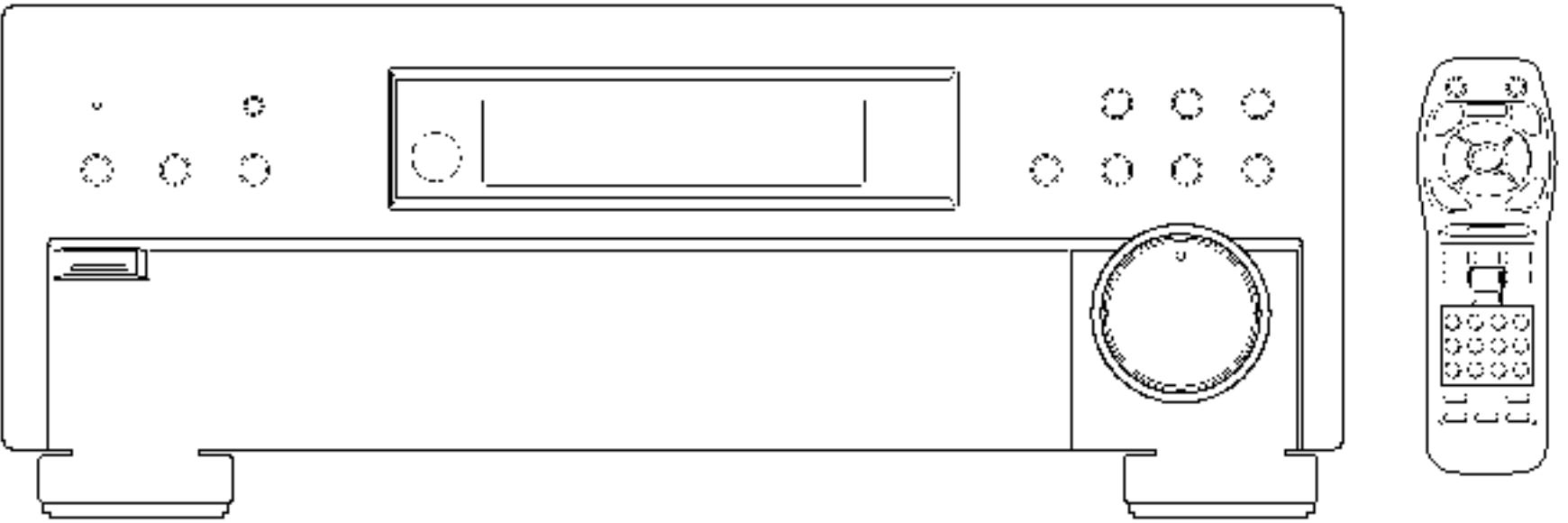


Service Manual



ORDER NO.
RRV 1780

AUDIO/VIDEO STEREO RECEIVER

VSX-D736S

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-D736S		
HLXJI	O	AC220 – 230V	AC240V, *
YPWXJI	O	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.

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
PIONEER ELECTRONICS SERVICE, INC. P.O.Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 501 Orchard Road, #10-00 Lane Crawford Place, Singapore 0923

1. SAFETY INFORMATION

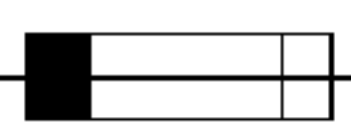
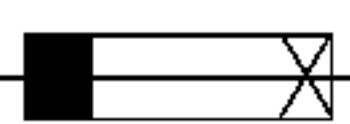
This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly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

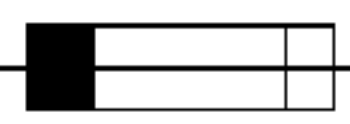
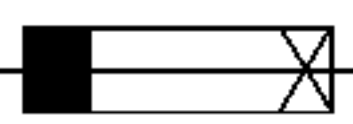
NOTICE

(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.

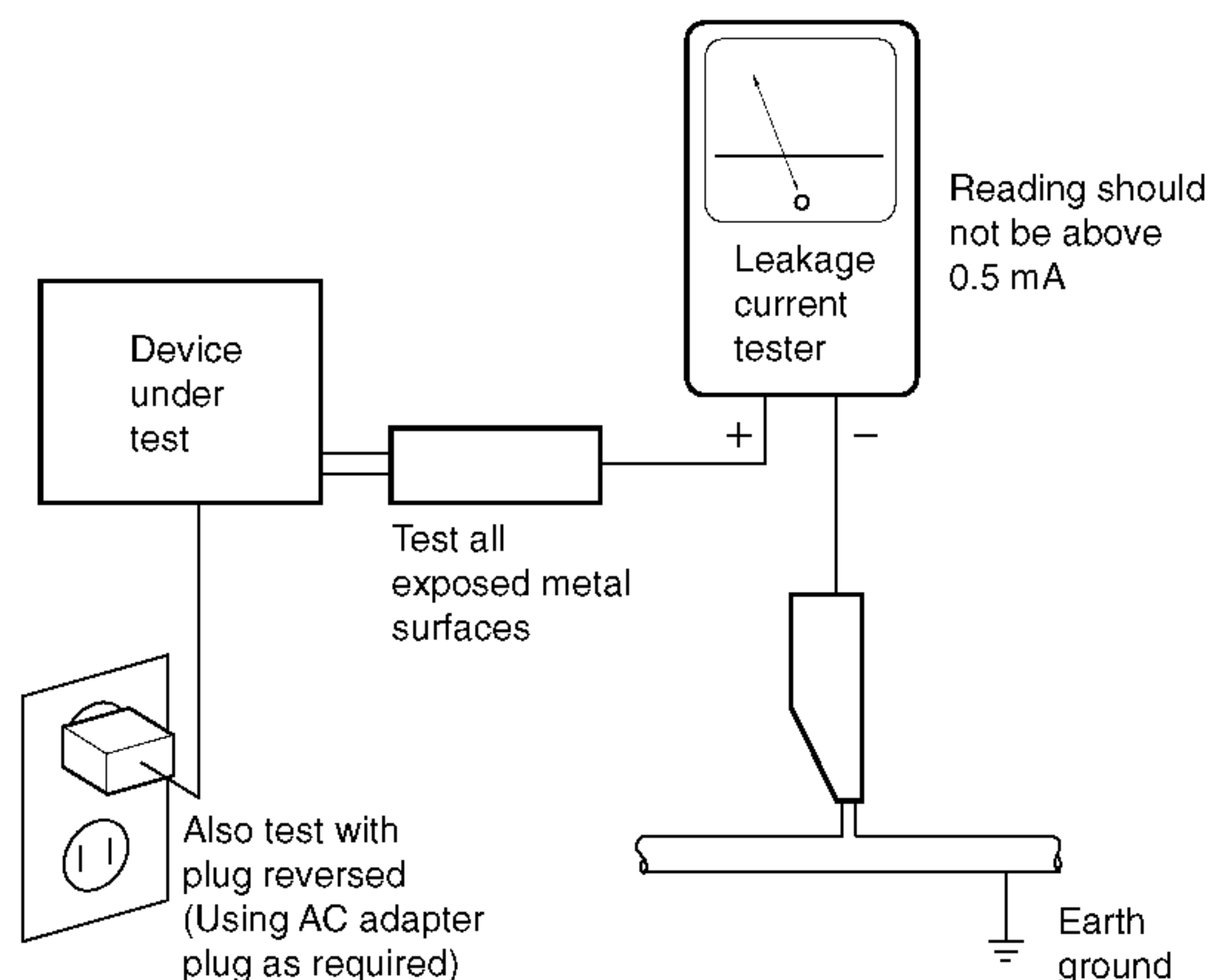
(FOR USA MODEL ONLY)

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 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

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

2. PRODUCT SAFETY NOTICE

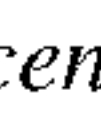
Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which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

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

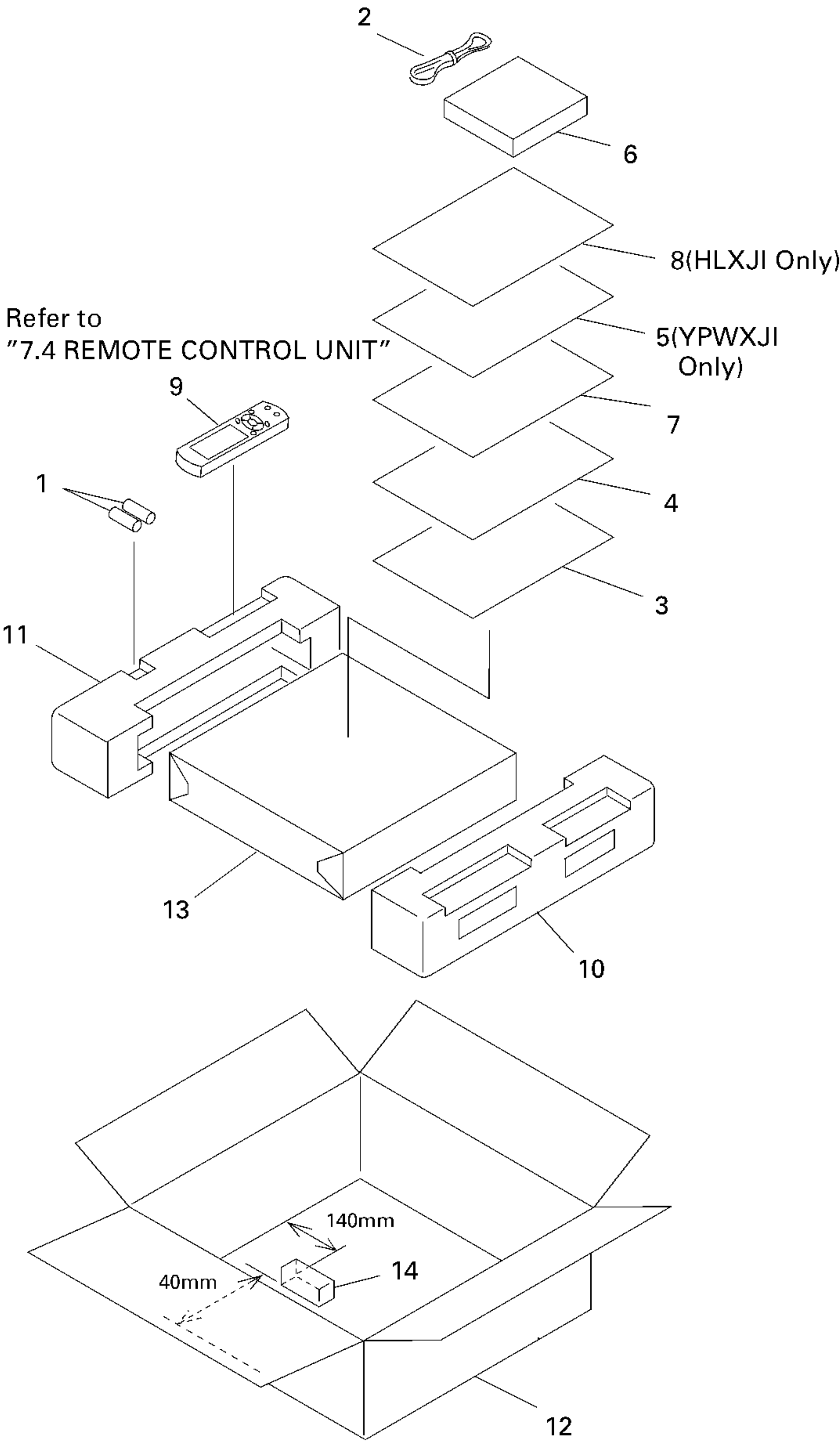
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

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

2. EXPLODED VIEWS AND PARTS LIST

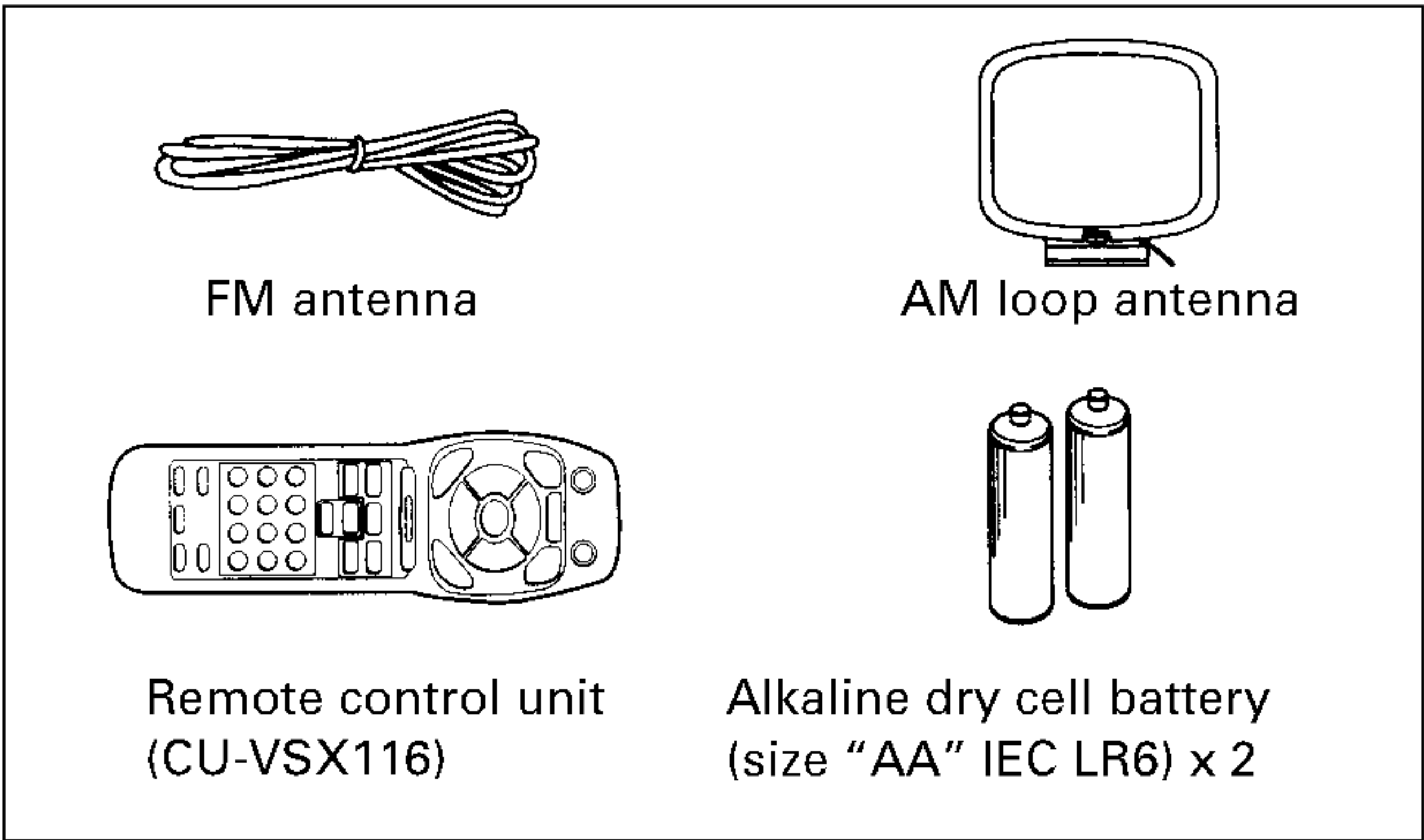
NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
• The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
• Screws adjacent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

2.1 PACKING



(1) PARTS LIST

Mark	No.	Description	Parts No.
NSP	1	Alkaline Dry Cell Battery (LR6,AA)	AEX1007
	2	FM Antenna	ADH7005
	3	Operating Instructions (English)	ARB7099
	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)	ARH7016
	8	Operating Instructions (Chinese)	See Contrast table (2)
	9	Remote Control Unit (CU-VSX116)	AXD7106
	10	Front Pad	AHA7139
	11	Rear Pad	AHA7140
	12	Packing Case	AHD7404
	13	Packing Sheet	AHG7010
	14	Sub Pad B	AHB7027



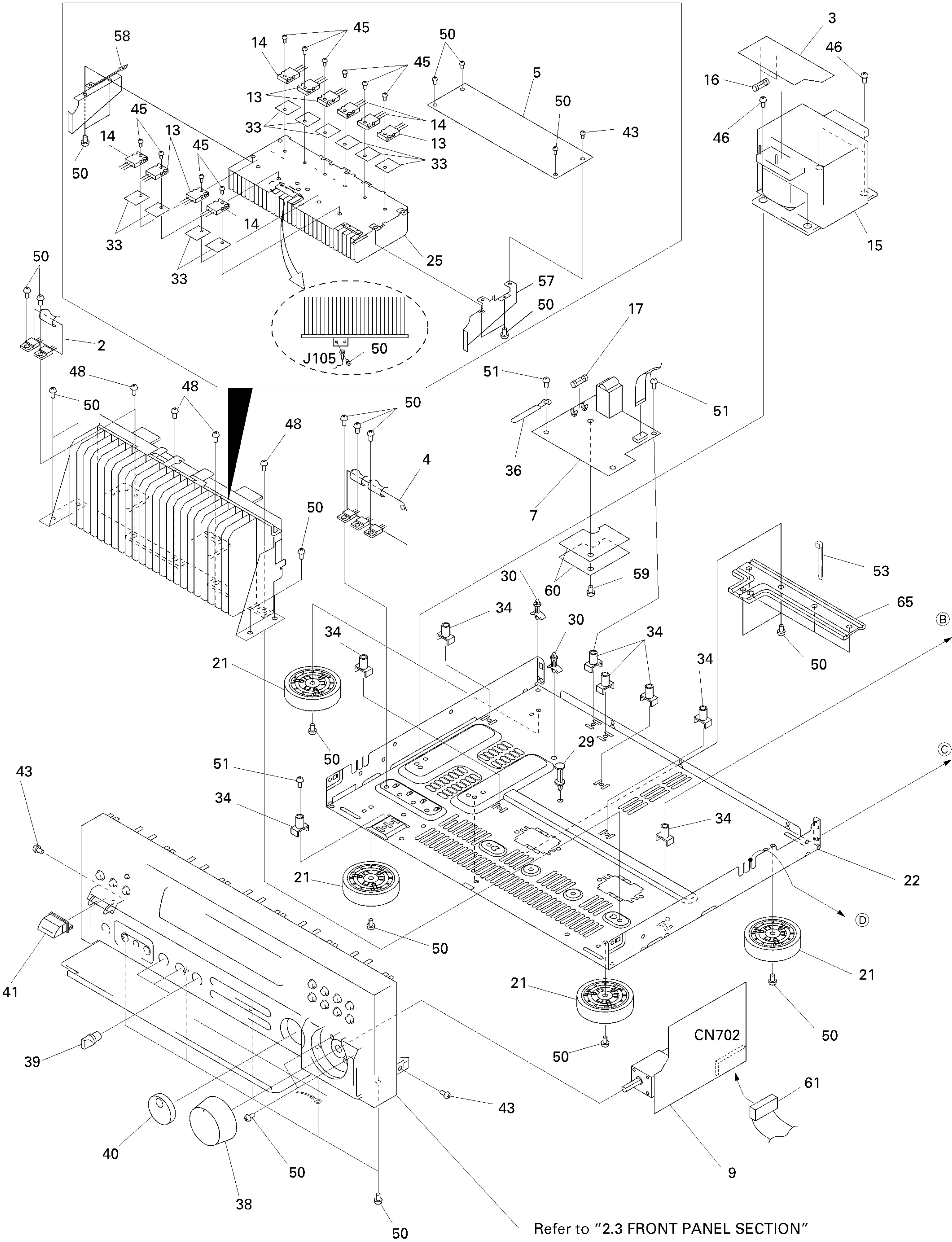
(2) CONTRAST TABLE

VSX-D736S/YPWXJI and HLXJI have the same construction except for the following :

Mark	No.	Srmbol & Description	Part No.		Remarks
			VSX-D736S		
			HLXJI	YPWXJI	
NSP	5	Warranty Card	Not used	PRY1003	
	8	Operating Instructions (Chinese)	ARC7145	Not used	

VSX-D736S

2.2 EXTERIOR



VSX-D736S

(1) PARTS LIST

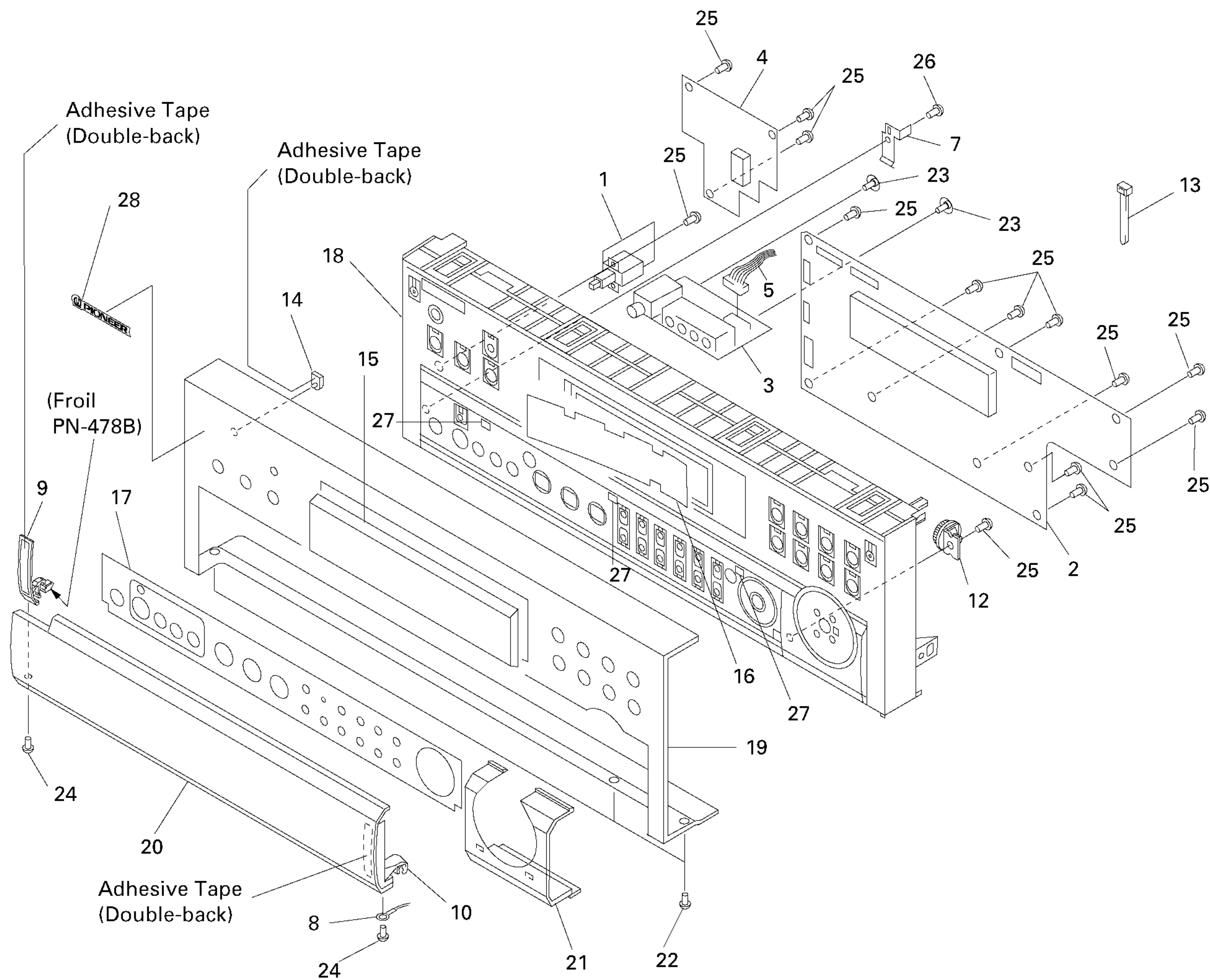
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	INPUT ASSY	AWZ8633		41	Power Button	AAD7373
	2	REG.2 ASSY	AWZ8498		42	.....	
	3	TRANS ASSY	AWZ8634		43	Screw	ABA – 298
	4	REG.1 ASSY	AWZ8840		44	Screw	ABA1007
	5	R/C AMP ASSY	AWZ8628		45	Screw	ABA1037
NSP	6	FRONT SP ASSY	AWZ8631		46	Screw	ABA7019
NSP	7	PRIMARY ASSY	AWZ8630		47	Screw	ABA7035
	8	VIDEO/SR ASSY	AWZ8842		48	Screw	ABA1147
	9	VOLUME ASSY	AWZ8841		49	Screw	ABA – 115
	10	R/C SPEAKER ASSY	AWZ8637		50	Screw	BBZ30P080FZK
	11	FM/AM TUNER MODULE	AXQ7041		51	Screw	BBZ30P200FMC
	12	DOLBY DIGITAL ASSY	AWX7041		52	.....	
⚠	13	Transistor (Q3, Q4, Q7, Q8, Q10)	2SA1943 (P)	NSP	53	Binder	ZCA – BK1
⚠	14	Transistor (Q1, Q2, Q5, Q6, Q9)	2SC5200 (P)		54	ISO Plate	ANG7141
⚠	15	Power Transformer (AC240V)	ATS7170	NSP	55	Cushon	AEB7081
	16	Fuse (FU3-FU5 : T1.25A)	AEK1055		56	.....	
⚠	17	Fuse (FU1 : T3.15A)	AEK1059		57	Radiator Holder L	ANG7125
⚠	18	AC Power Cord	See Contrast table (2)		58	Radiator Holder R	ANG7126
	19	.....			59	Push Rivet	AEC7025
	20	.....			60	PVC Sheet	AEC7087
	21	Leg Assy	AMR2633		61	Connector Assy	PF06PP0S10
	22	Chassis	ANA7059		62	Capacitor (C1, C2)	CCDSL271J50
	23	Rear Panel	See Contrast table (2)		63	.....	
	24	Bonnet Case	ANE7154		64	Top Cover	AME1086
	25	Radiator	ANH7053		65	Bottom Holder	ANG7145
	26	Shield Case	ANK7026		66	Screw	BPZ30P080FMC
	27	.....					
	28	.....					
	29	PCB Support	AEC1581				
	30	PCB Support	AEC7006				
	31	PCB Support	AEC7056				
	32	.....					
	33	Sheet	AEE7010				
	34	PCB Mold	AMR2533				
	35	Cord Stopper	CM-22B				
NSP	36	Clamper	RNE1277				
	37	Washer	VEC1254				
	38	Round Knob L	AAB7124				
	39	Round Knob S	AAB7120				
	40	Jog Knob	AAB7121				

(2) CONTRAST TABLE

VSX-D736S/YPWXJI and HLXJI have the same construction except for the following :

Mark	No.	Srmbol & Description	Part No.		Remarks
			VSX-D736S		
			HLXJI	YPWXJI	
	18 23	AC Power Cord Rear Panel	PDG1058 ANC7535	ADG1159 ANC7536	

2.3 FRONT PANEL SECTION



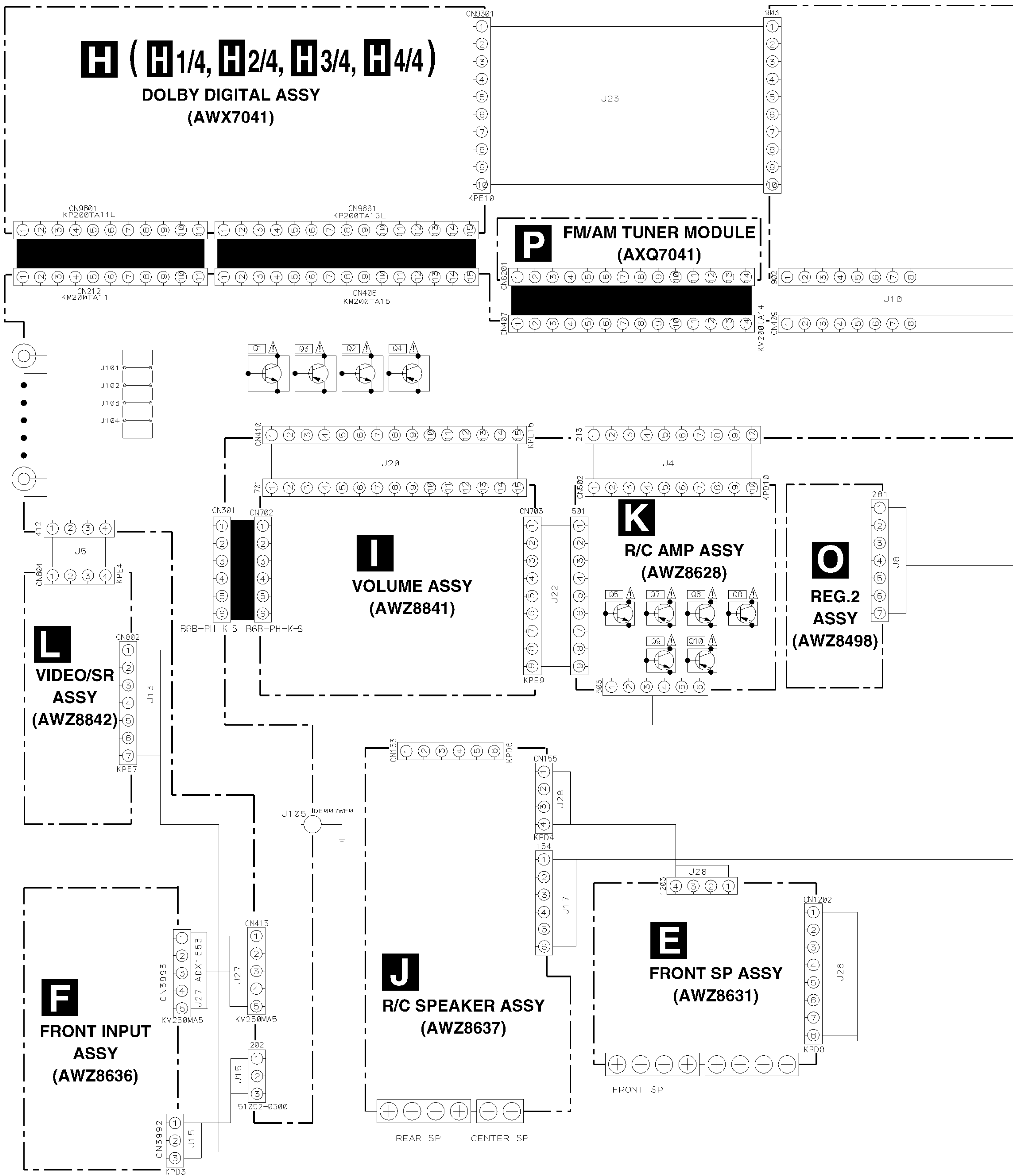
• PARTS LIST

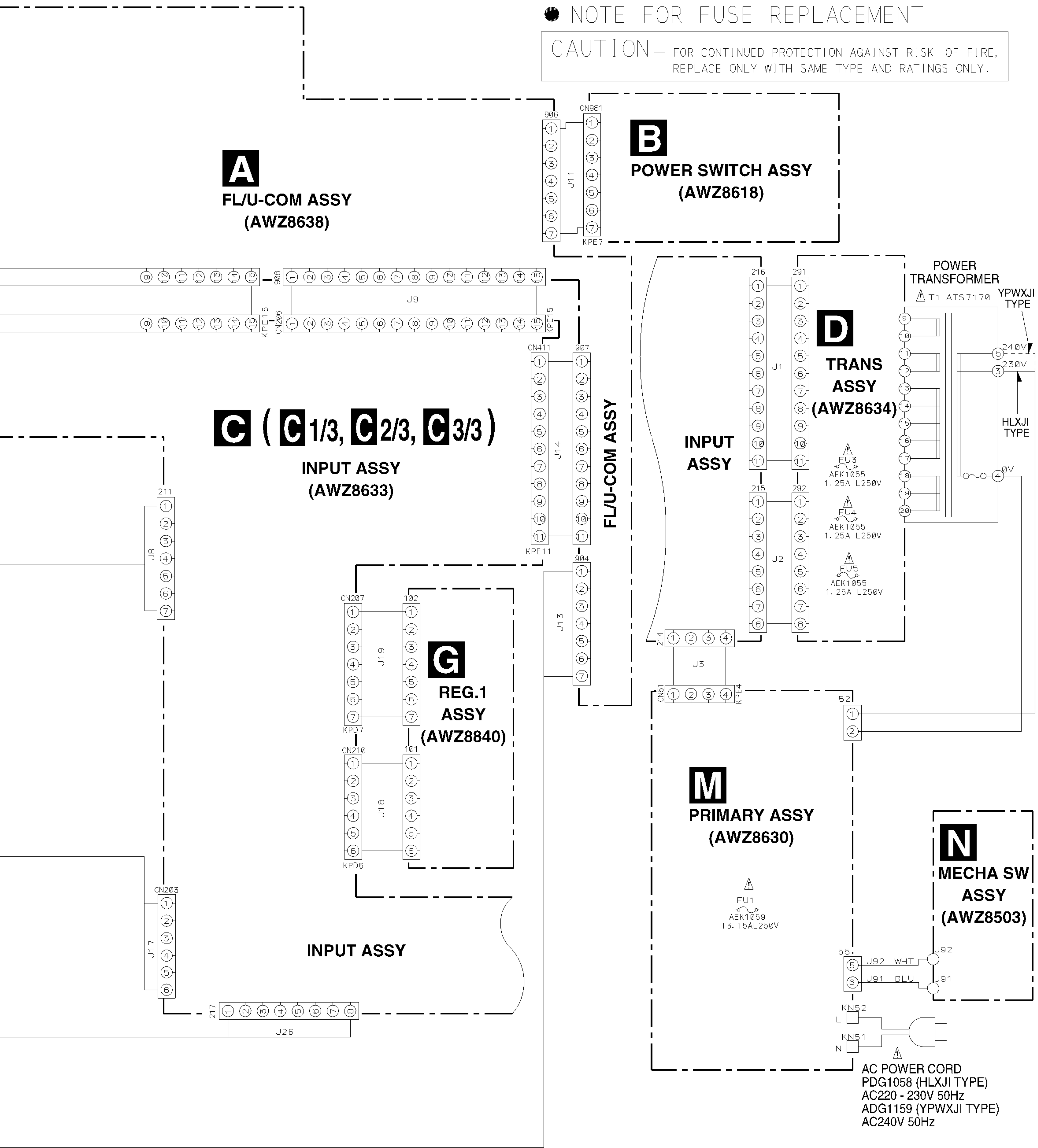
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
NSP	1	MECHA SW ASSY	AWZ8503		16	FL Filter	AAK7294
	2	FL U-COM ASSY	AWZ8638		17	PVC Panel	AAK7357
NSP	3	FRONT INPUT ASSY	AWZ8636		18	Panel Base	AMB7428
NSP	4	POWER SWITCH ASSY	AWZ8618		19	Front Panel	ANB7085
NSP	5	5P HOUSING WIRE	ADX7187		20	Door Panel	ANB7088
NSP	6	.....			21	Sub Panel	ANB7089
	7	Plate Spring	ABK7011		22	Screw	BBZ30P080FZK
	8	Cord With Plug	ADH7016		23	Screw	ABA7009
	9	Door Hinge L	AMR7171		24	Screw	ABA7023
	10	Door Hinge R	AMR7172		25	Screw	BPZ30P080FMC
NSP	11	.....			26	Screw	IPZ30P080FMC
	12	Damper Assy	AXA7049		27	Cushion	AED7017
	13	Binder	ZCA – BK1		28	Name Plate	AAM7004
	14	LED Lens	PNW2019				
	15	FL Panel	AAK7365				

3. SCHEMATIC DIAGRAM

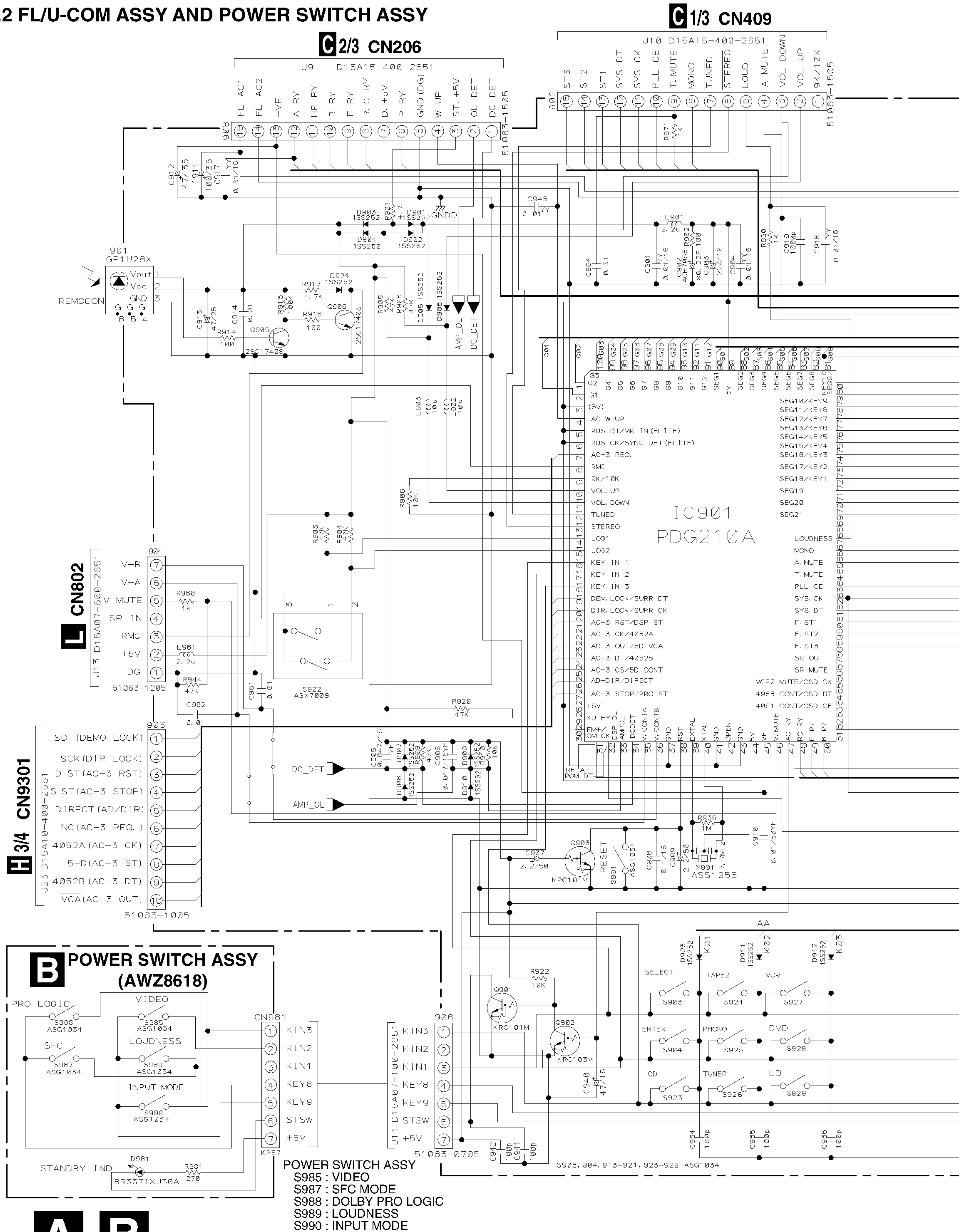
Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"

3.1 OVERALL CONNECTION DIAGRAM

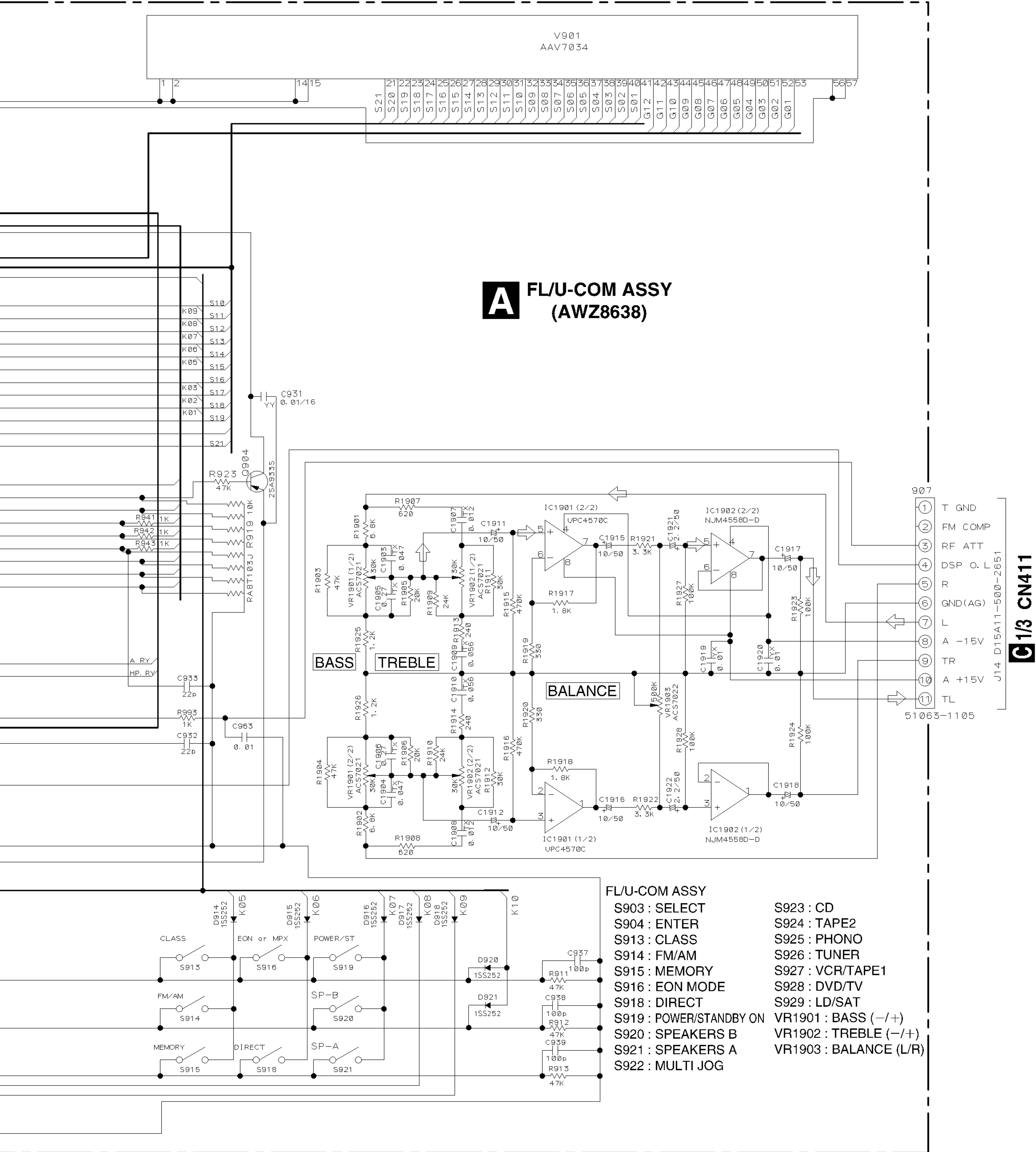




3.2 FL/U-COM ASSY AND POWER SWITCH ASSY

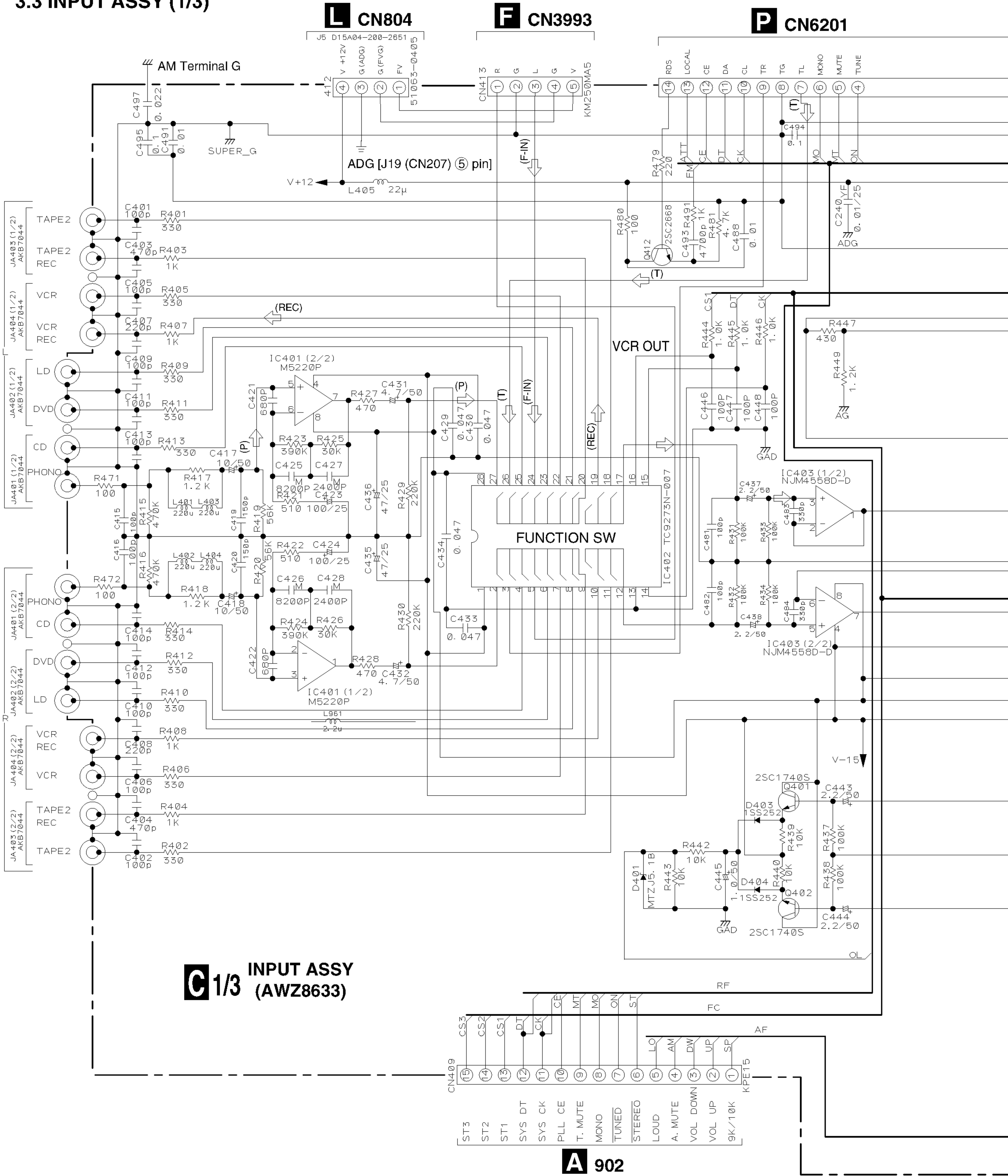


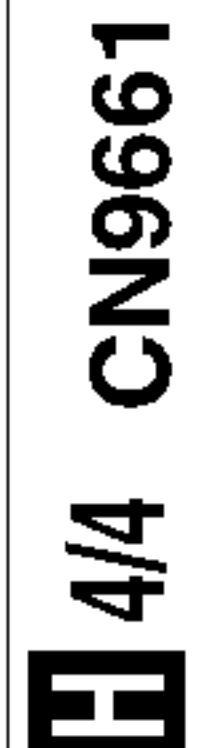
⇒ : AUDIO SIGNAL ROUTE



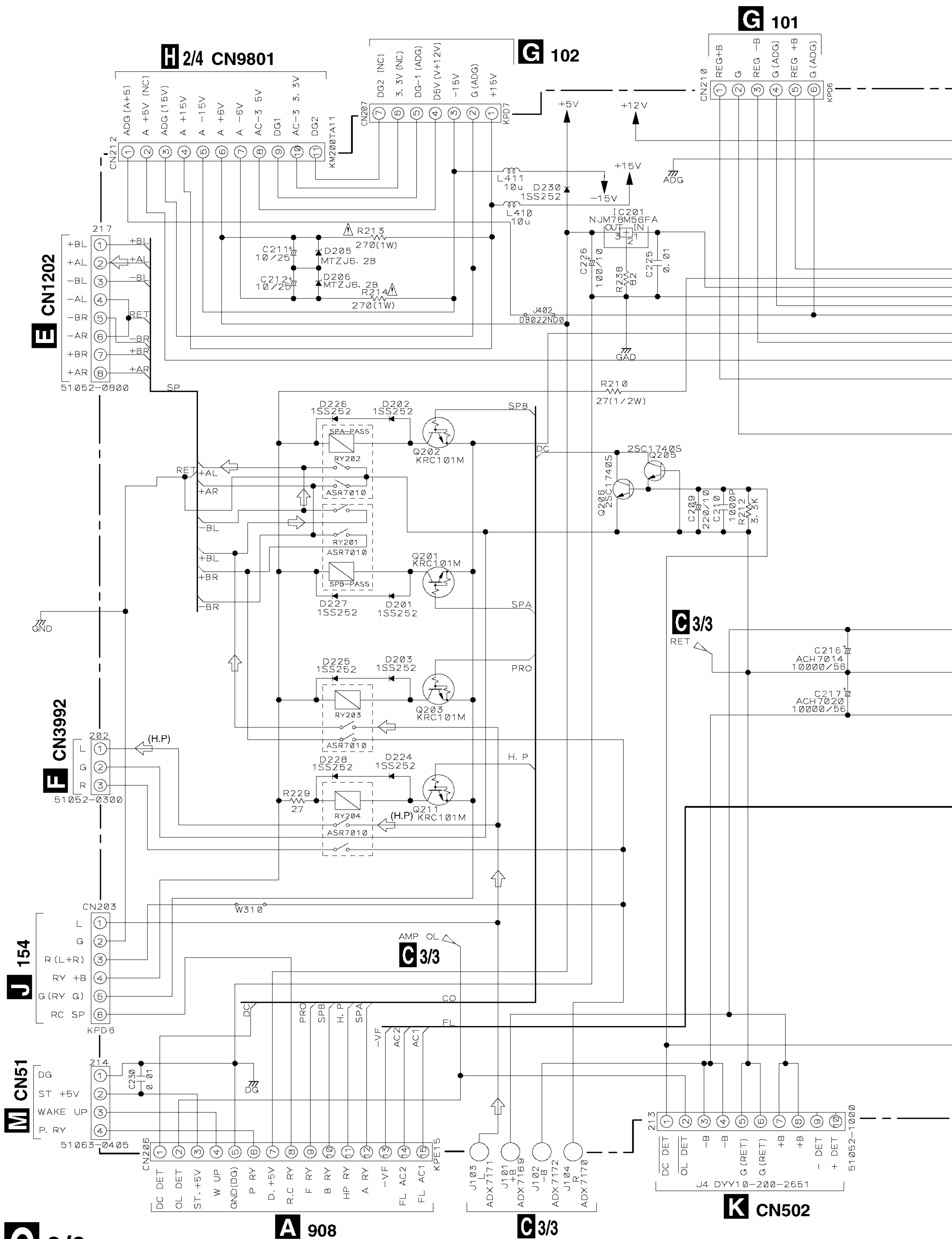
VSX-D736S

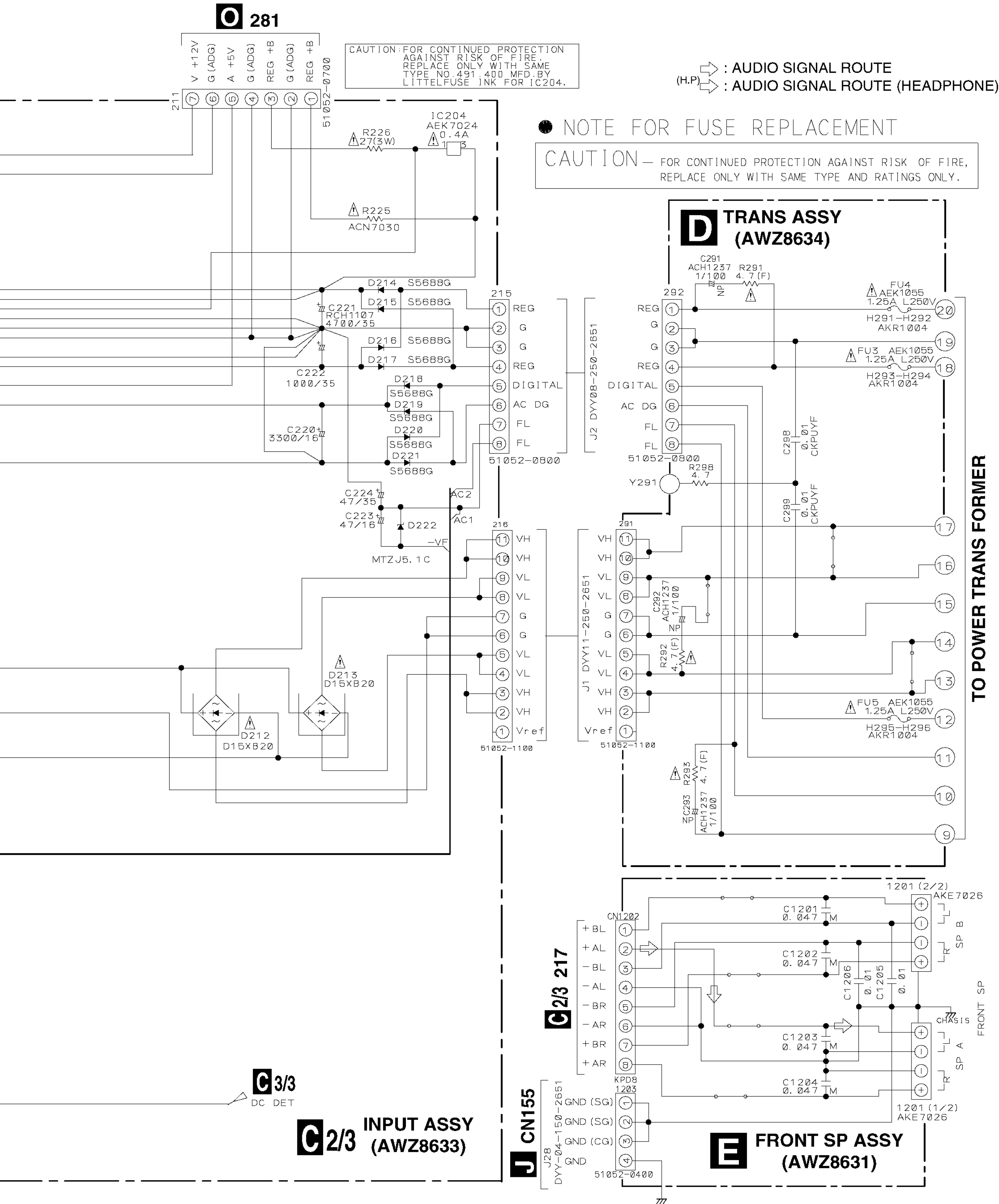
3.3 INPUT ASSY (1/3)





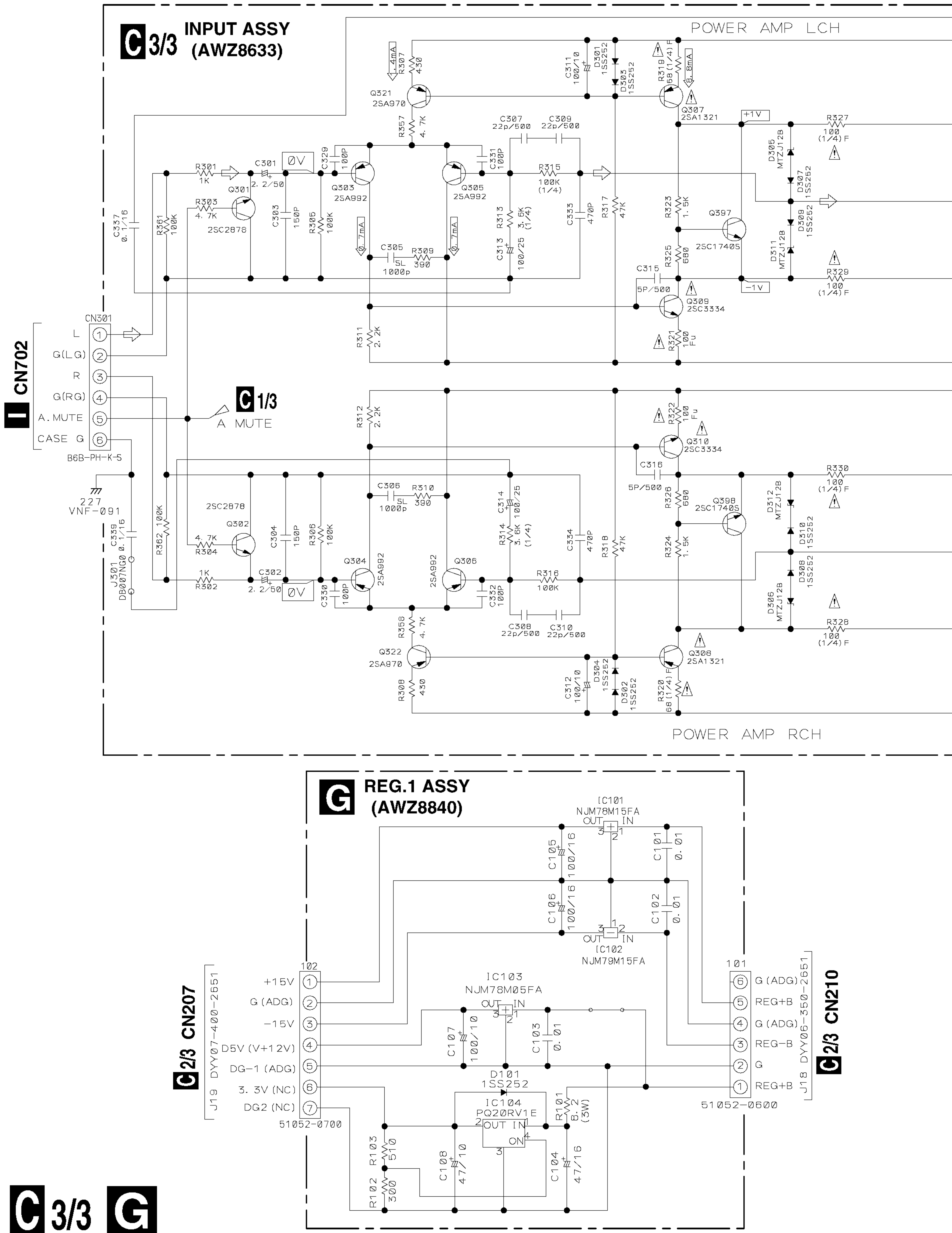
3.4 INPUT ASSY (2/3), TRANS ASSY AND FRONT SP ASSY



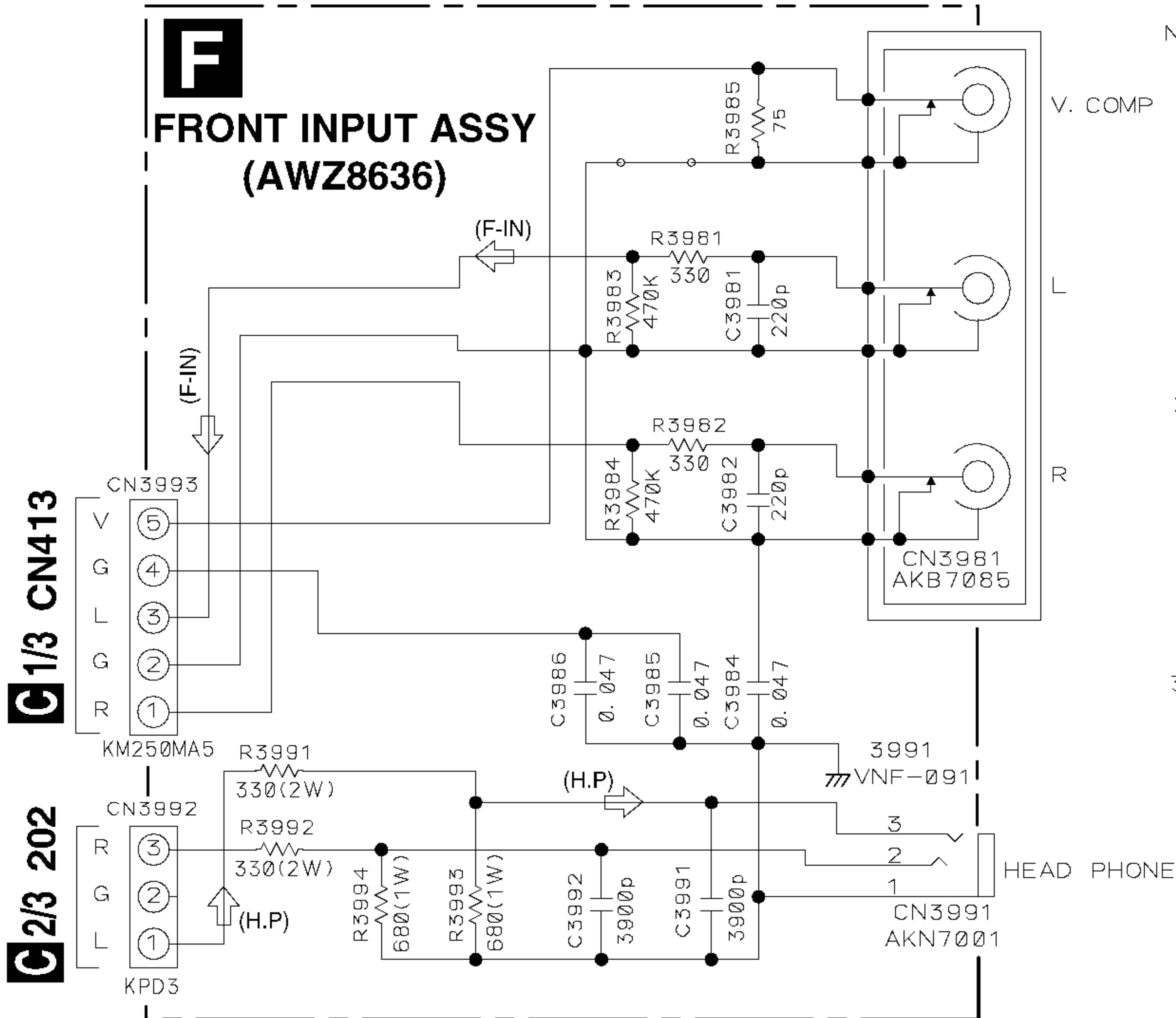
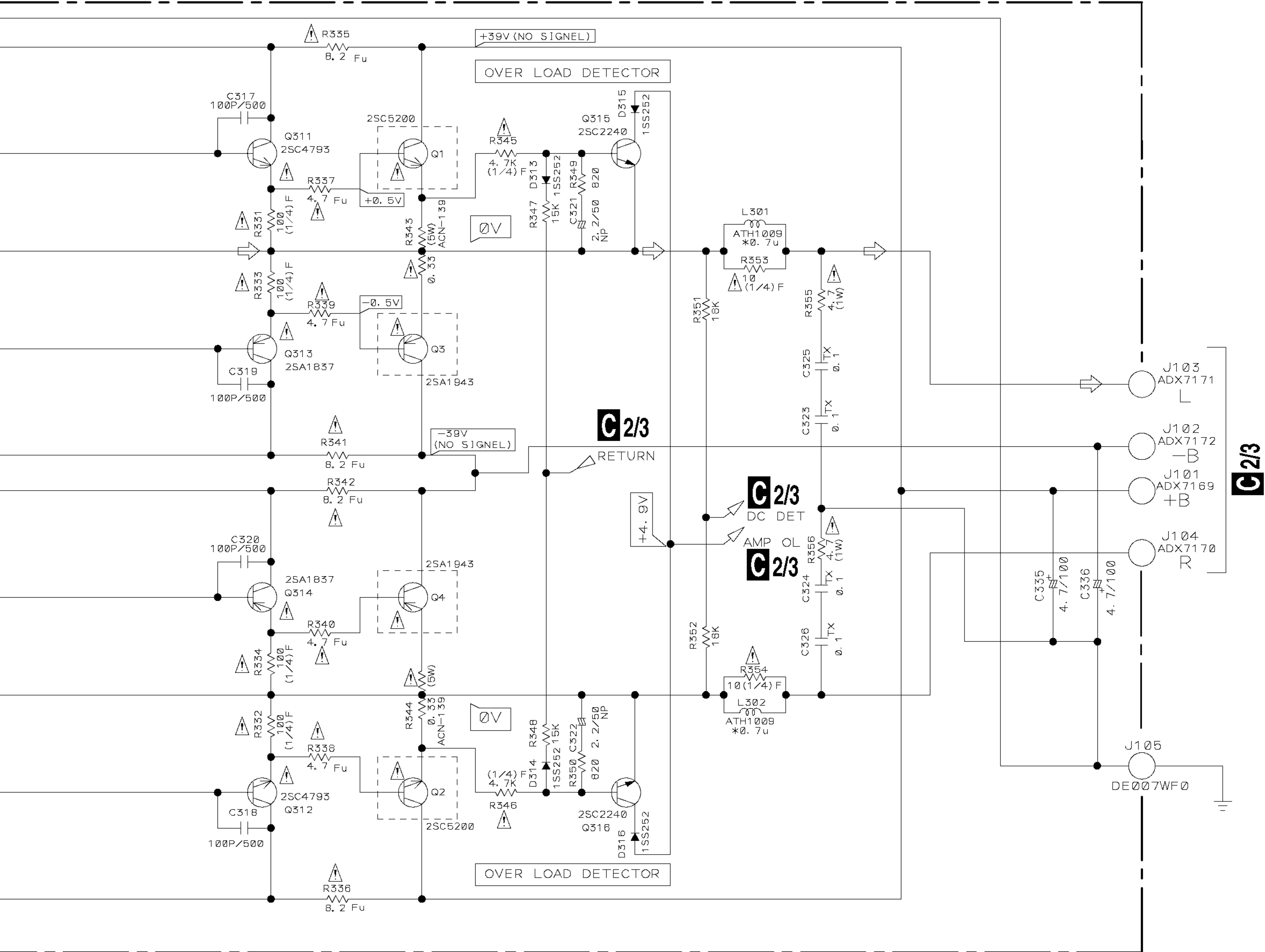


VSX-D736S

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

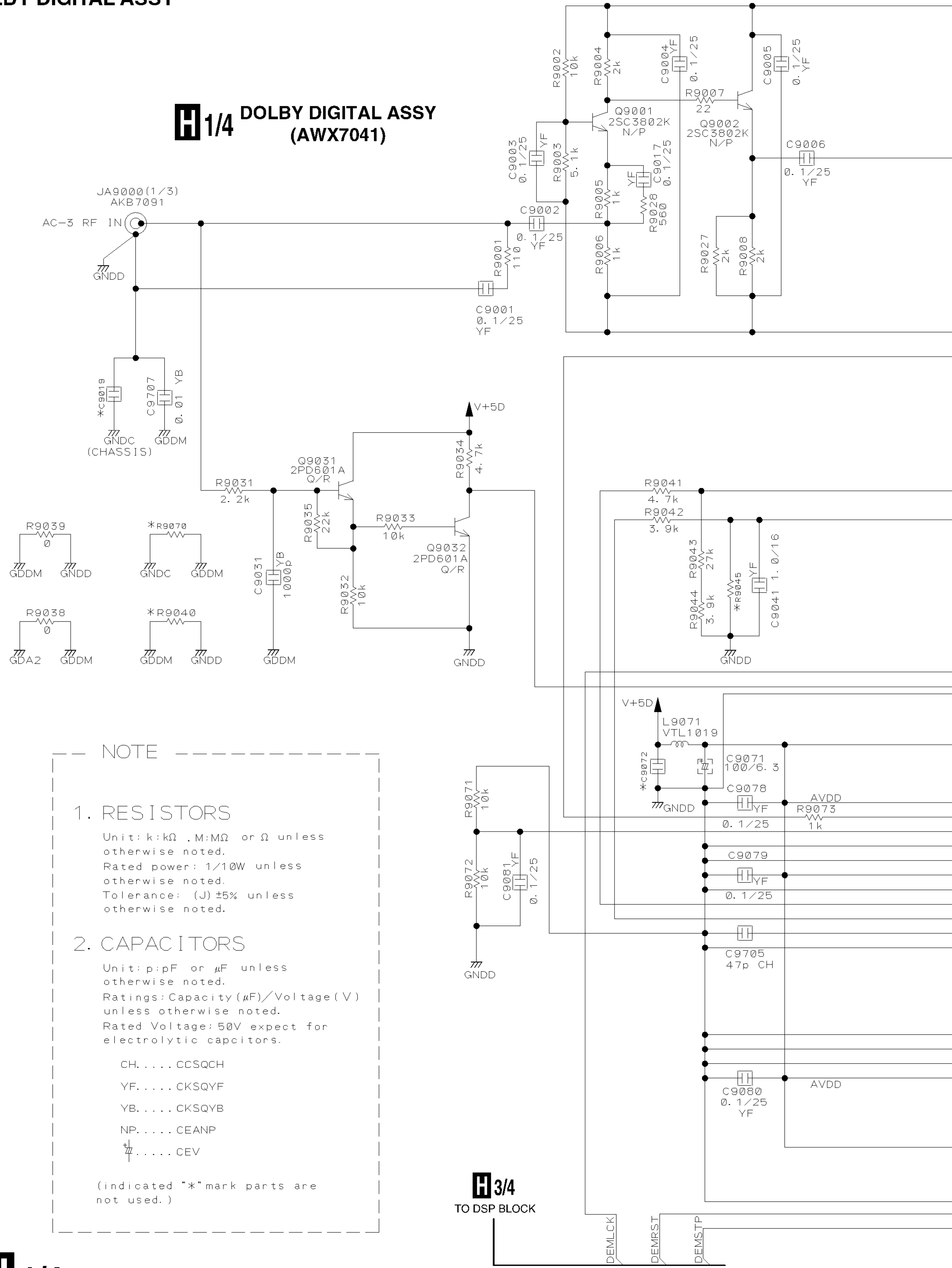


➡ : AUDIO SIGNAL ROUTE
(H.P) ➡ : AUDIO SIGNAL ROUTE (HEADPHONE)
(F-IN) ➡ : AUDIO SIGNAL ROUTE (F.IN)



- Noted
- 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)
 - Capacitors
Indicated in capacity (uF) / voltage (V) unless otherwise noted
p=pF
Indication without voltage is 50V except
electrolytic capacitor
NL=CEANL⁻, TX=CFTXA⁻
 - Diodes
Other diodes (not noted) are 1SS252

3.6 DOLBY DIGITAL ASSY



NOTE

1. RESISTORS

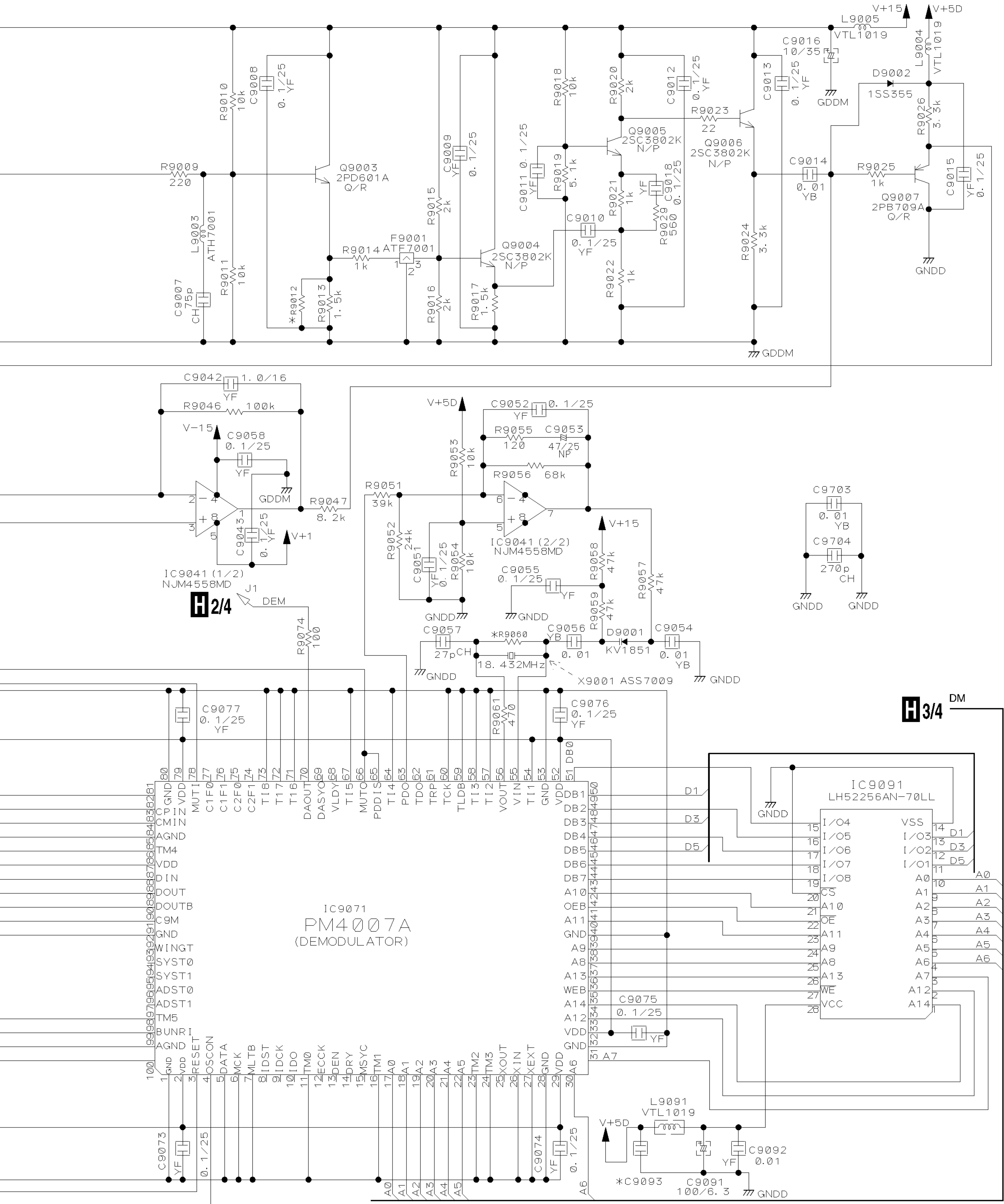
Unit: k:kΩ , M:MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

2. CAPACITORS

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

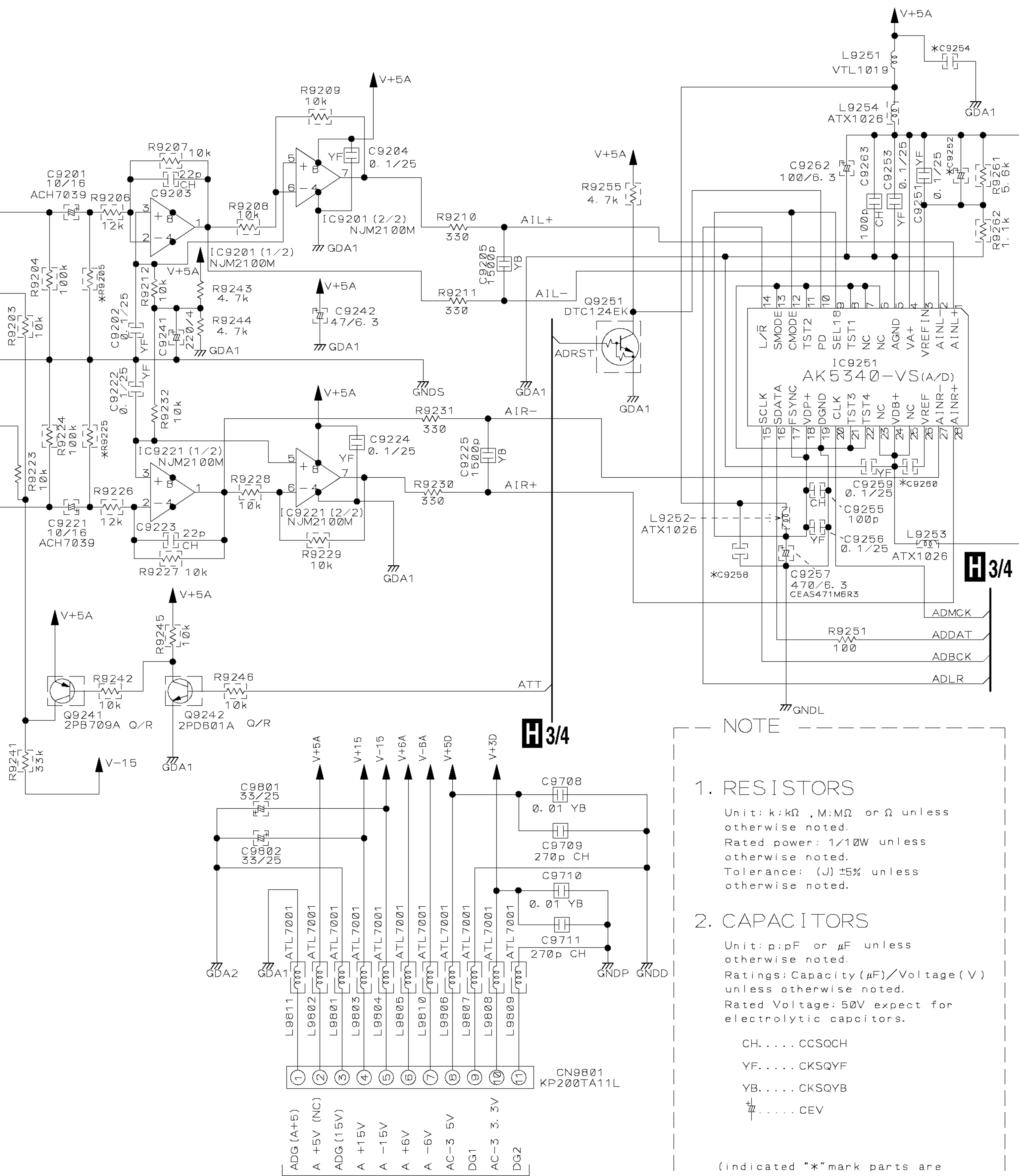
- CH. CCSQCH
- YF. CKSQYF
- YB. CKSQYB
- NP. CEANP
- CEV. CEV

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



20





1. RESISTORS

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

2. CAPACITORS

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

CH.....CCSQCH
YF.....CKSQYF
YB.....CKSQYB
+.....CEV

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

C2/3 CN212

H 3/4 DOLBY DIGITAL ASSY (AWX7041)

H 2/4
H 4/4

NOTE

1. RESISTORS

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

2. CAPACITORS

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

CH.....CCSQCH

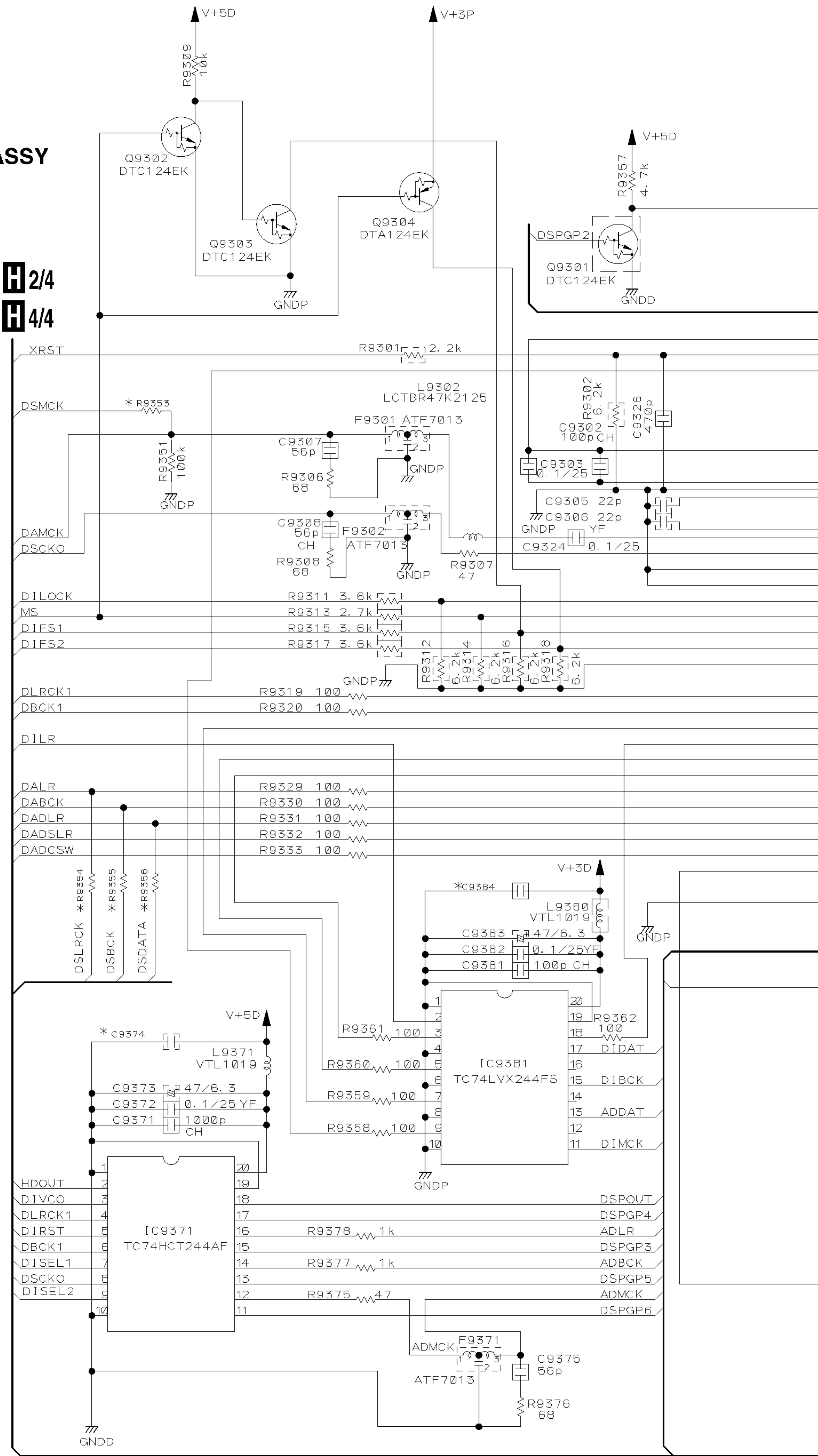
YF.....CKSQYF

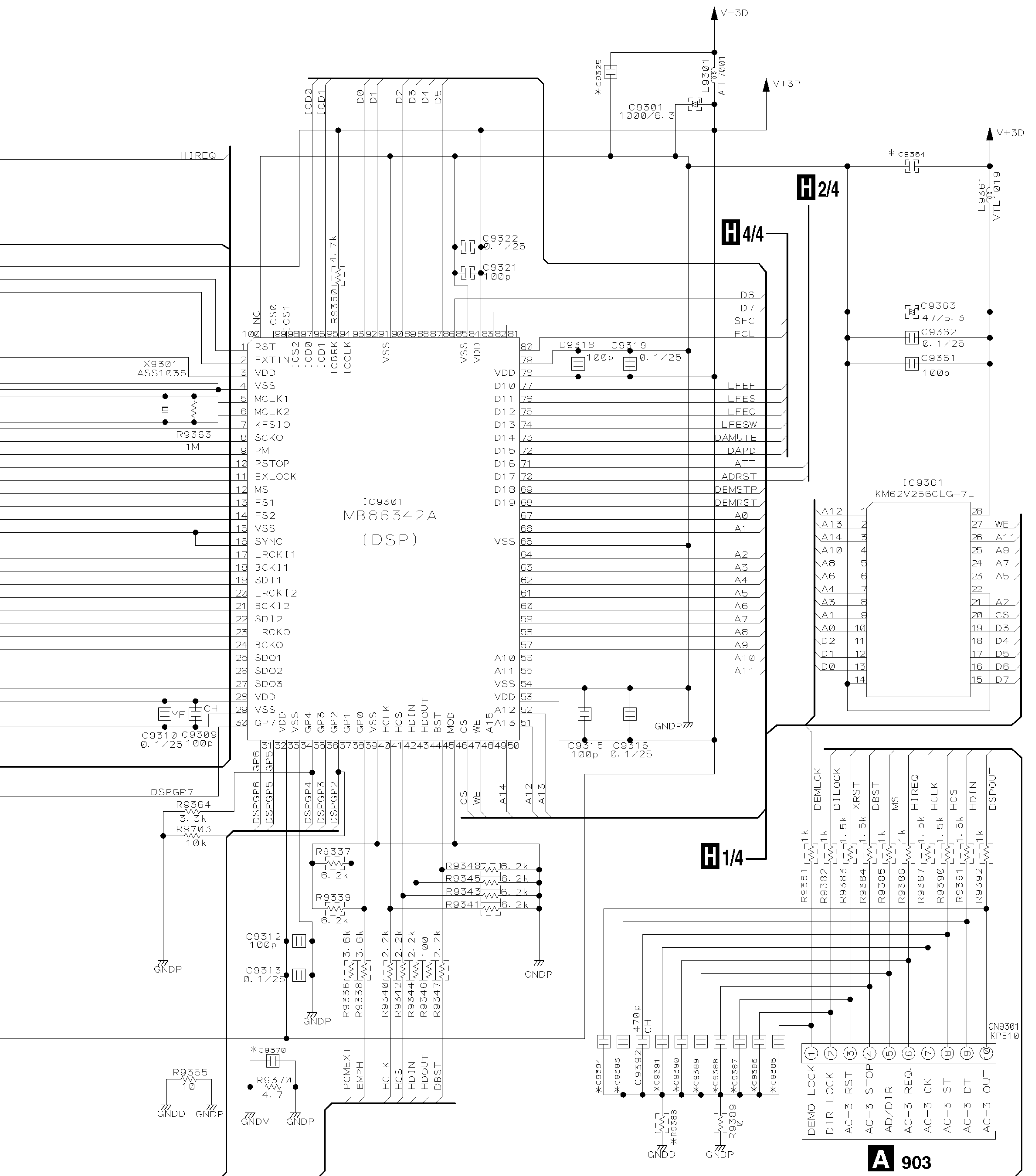
YB.....CKSQYB

NP.....CEANP

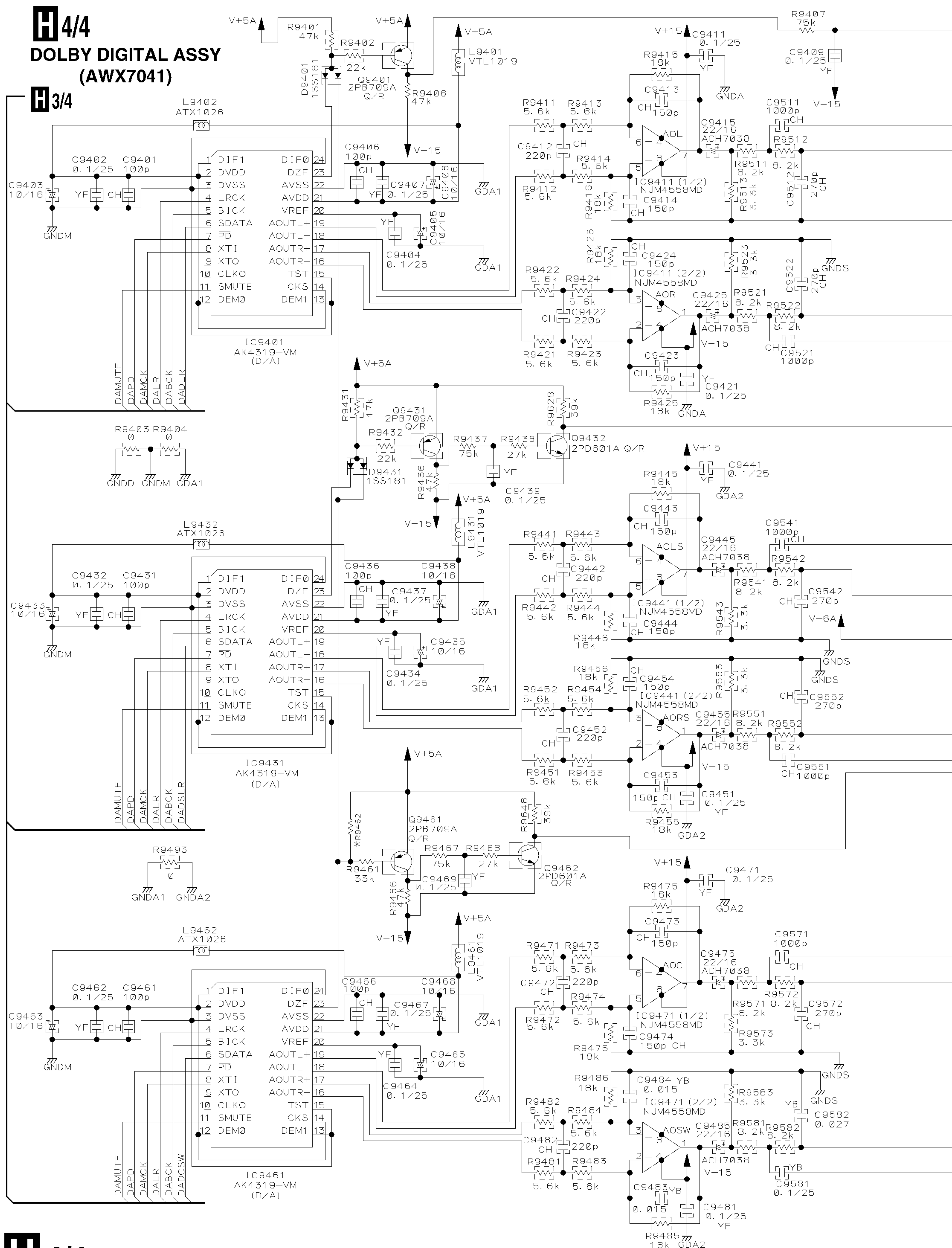
CEV.....CEV

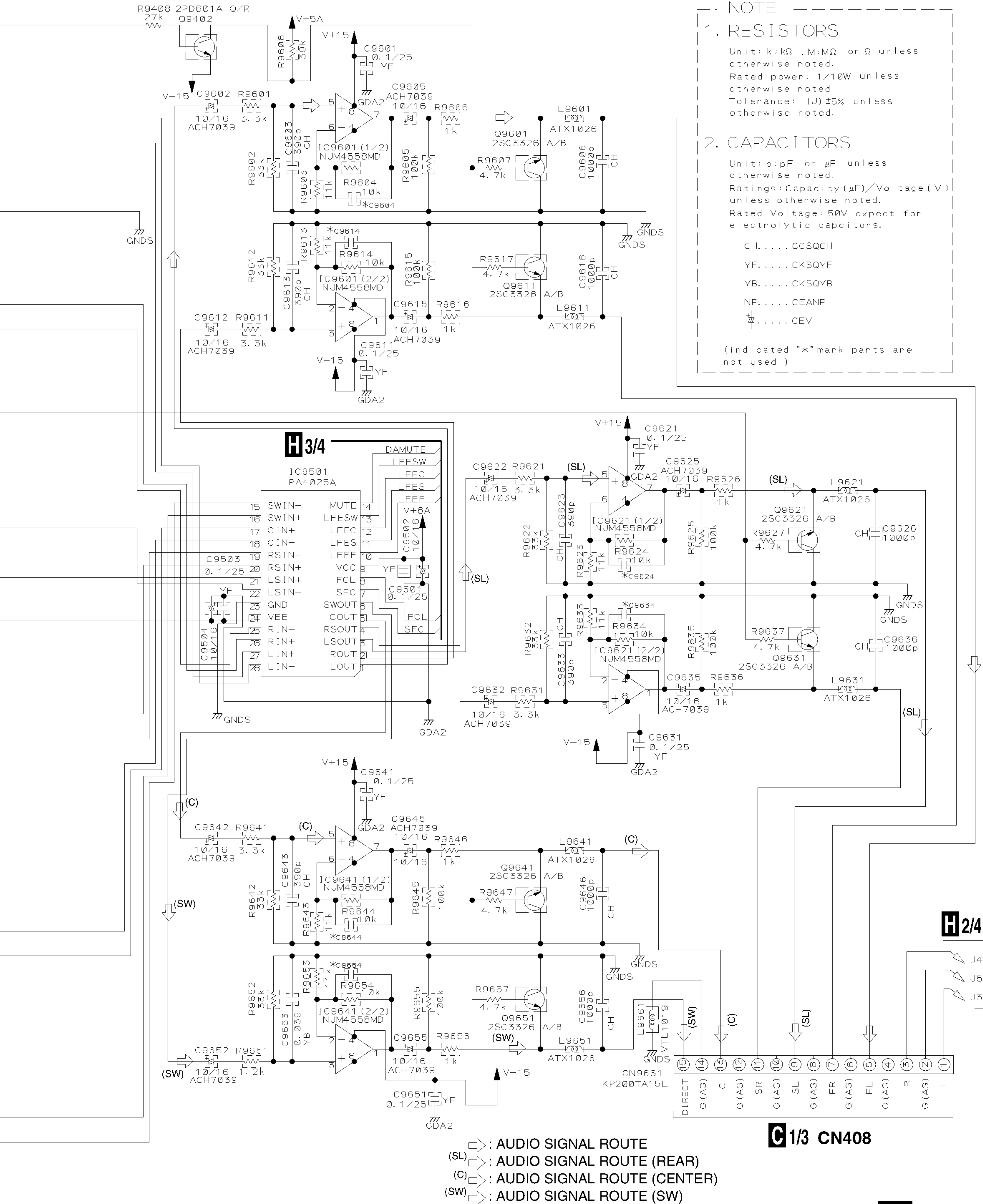
(indicated "*"mark parts are not used.)





VSX-D736S



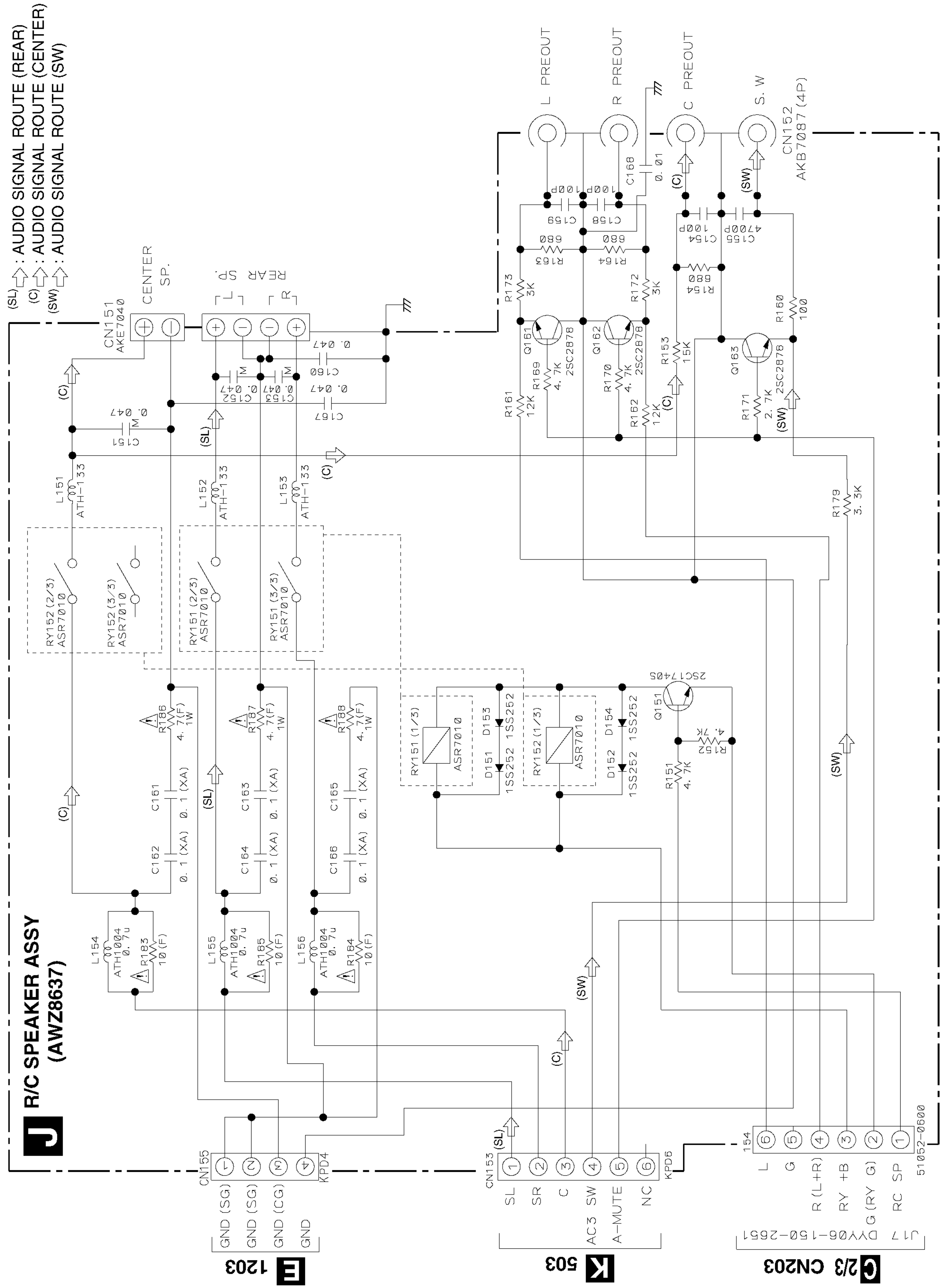




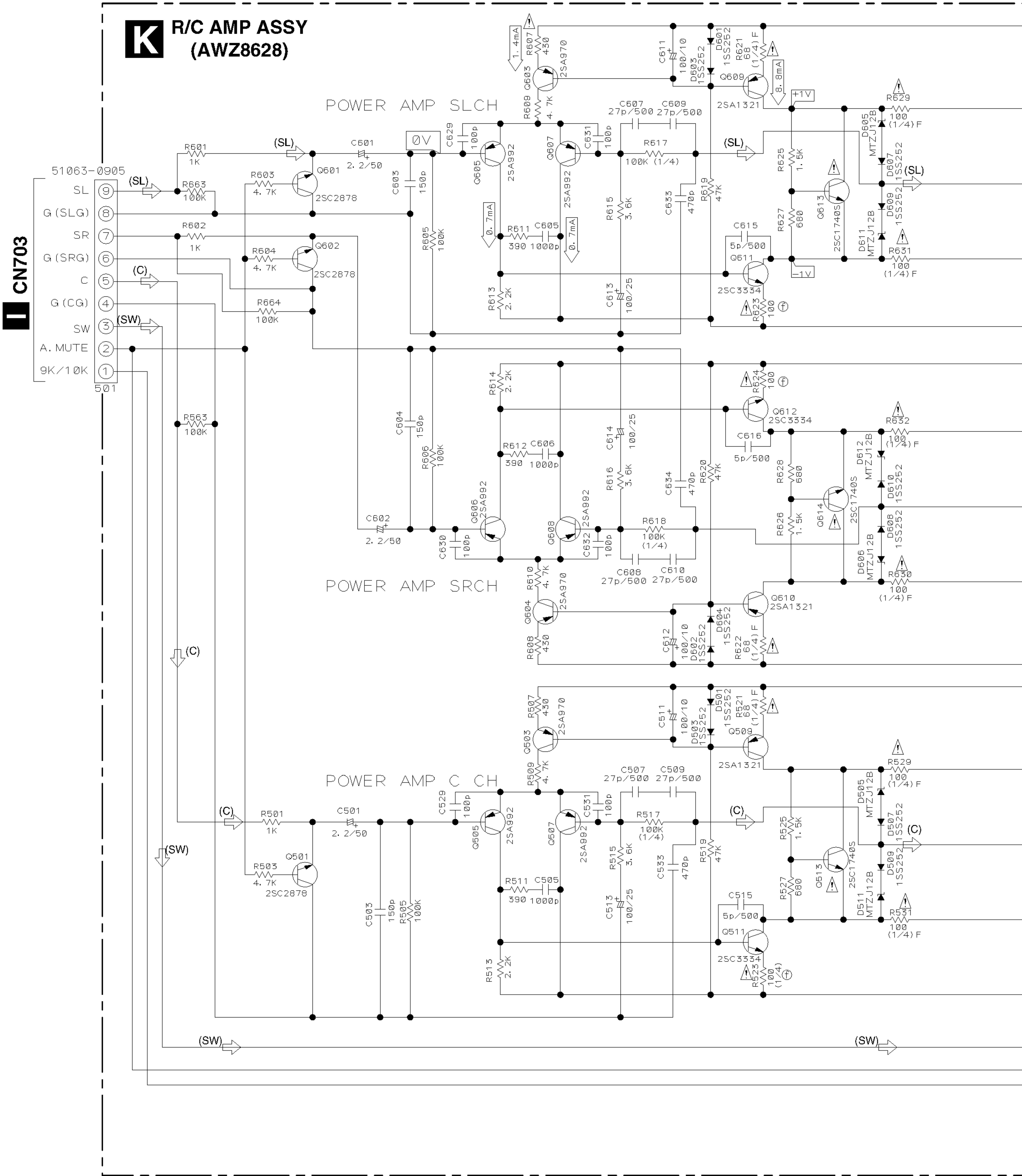
C 3/3 CN301

C^{1/3} CN410

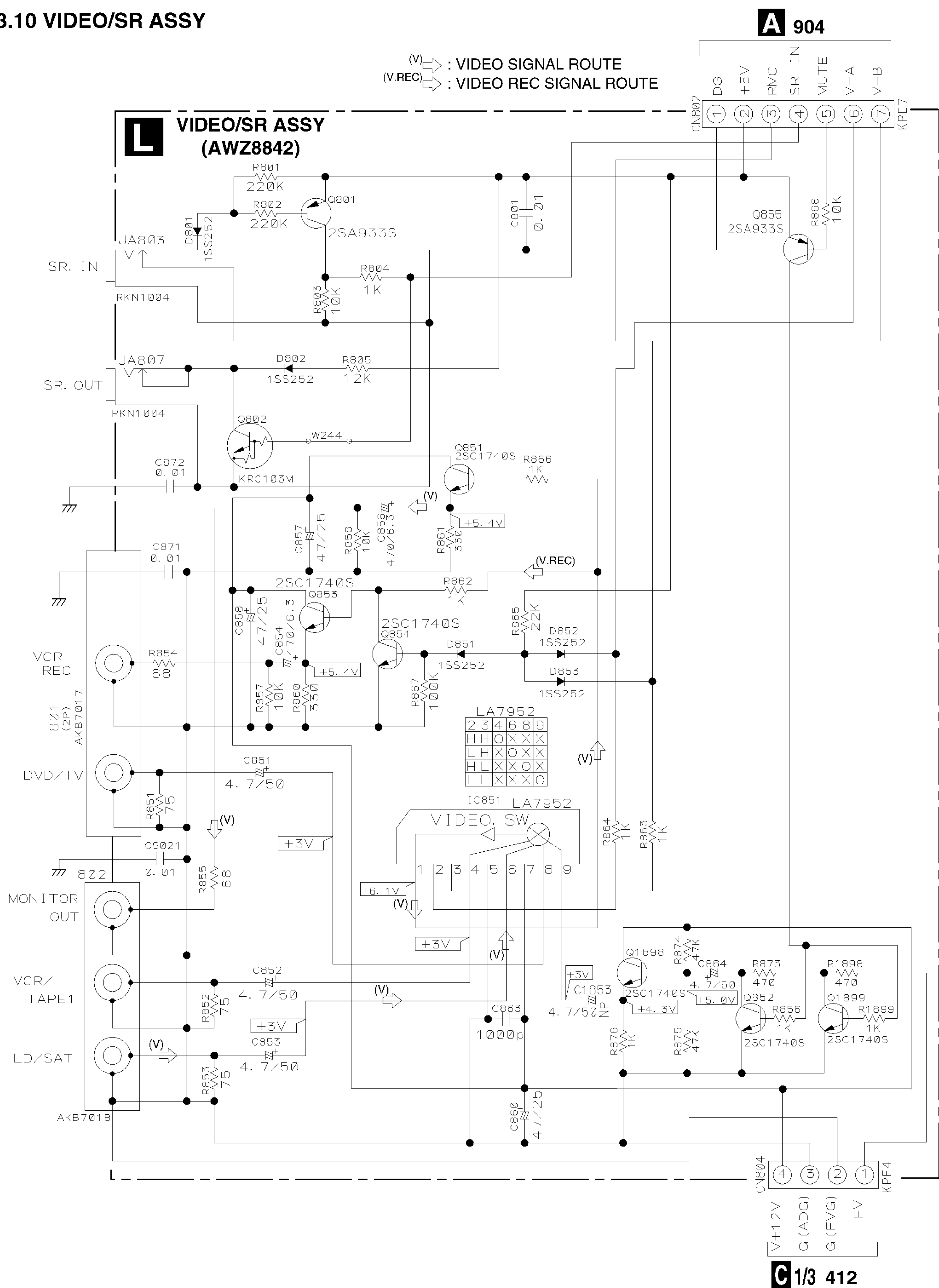
3.8 R/C SPEAKER ASSY



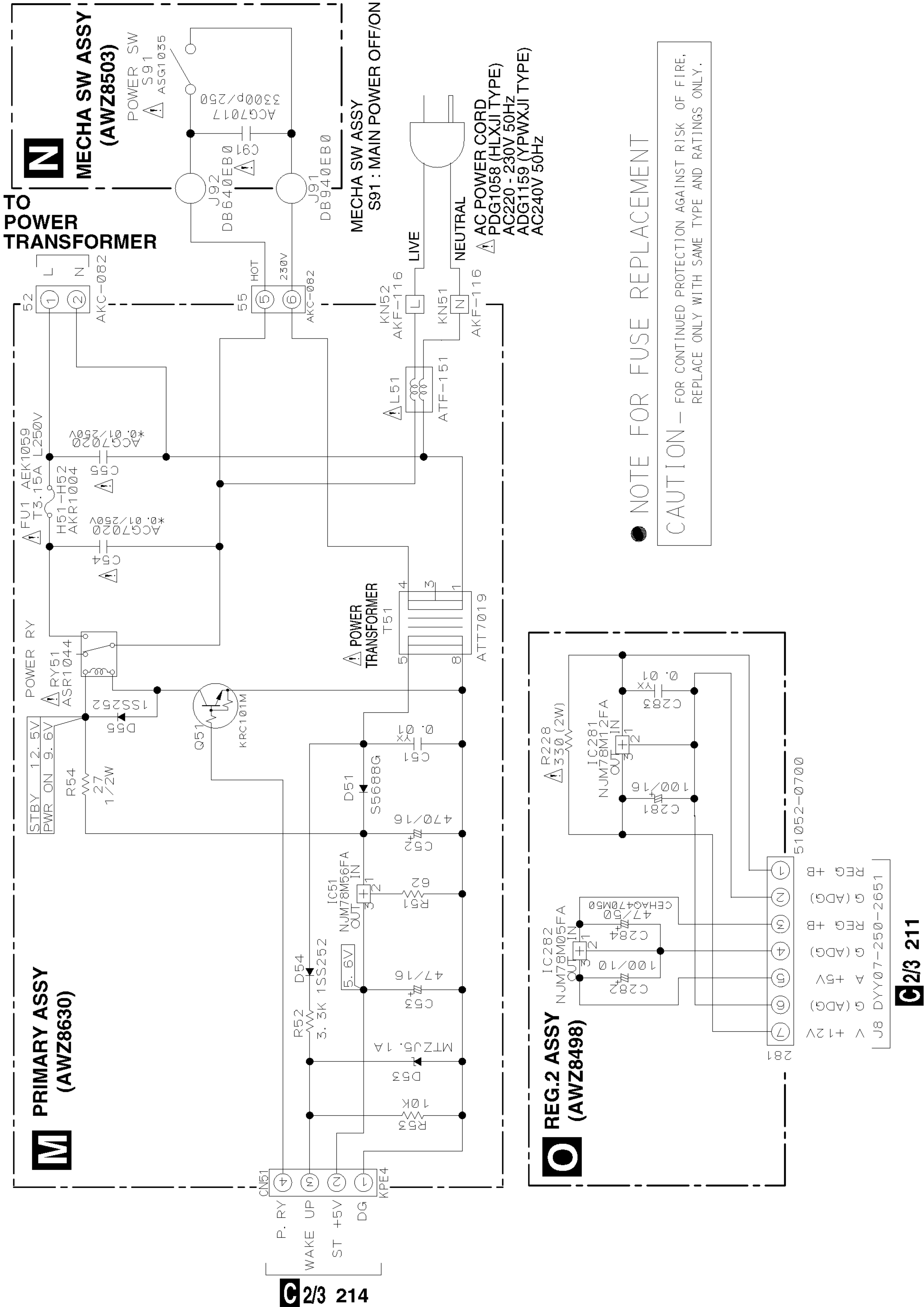
3.9 R/C AMP ASSY



3.10 VIDEO/SR ASSY

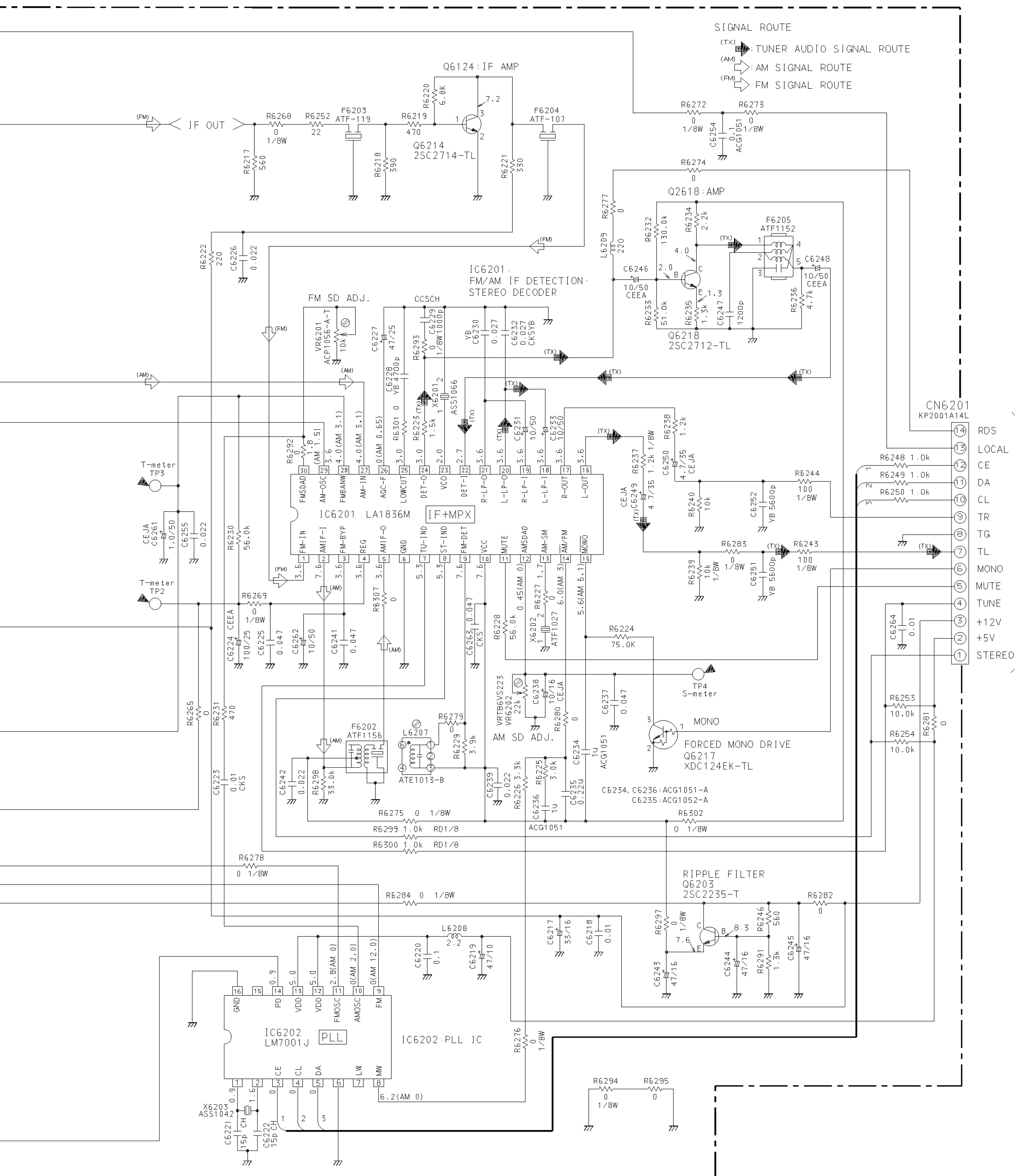


3.11 PRIMARY ASSY, MECHA SW ASSY AND REG.2 ASSY



P

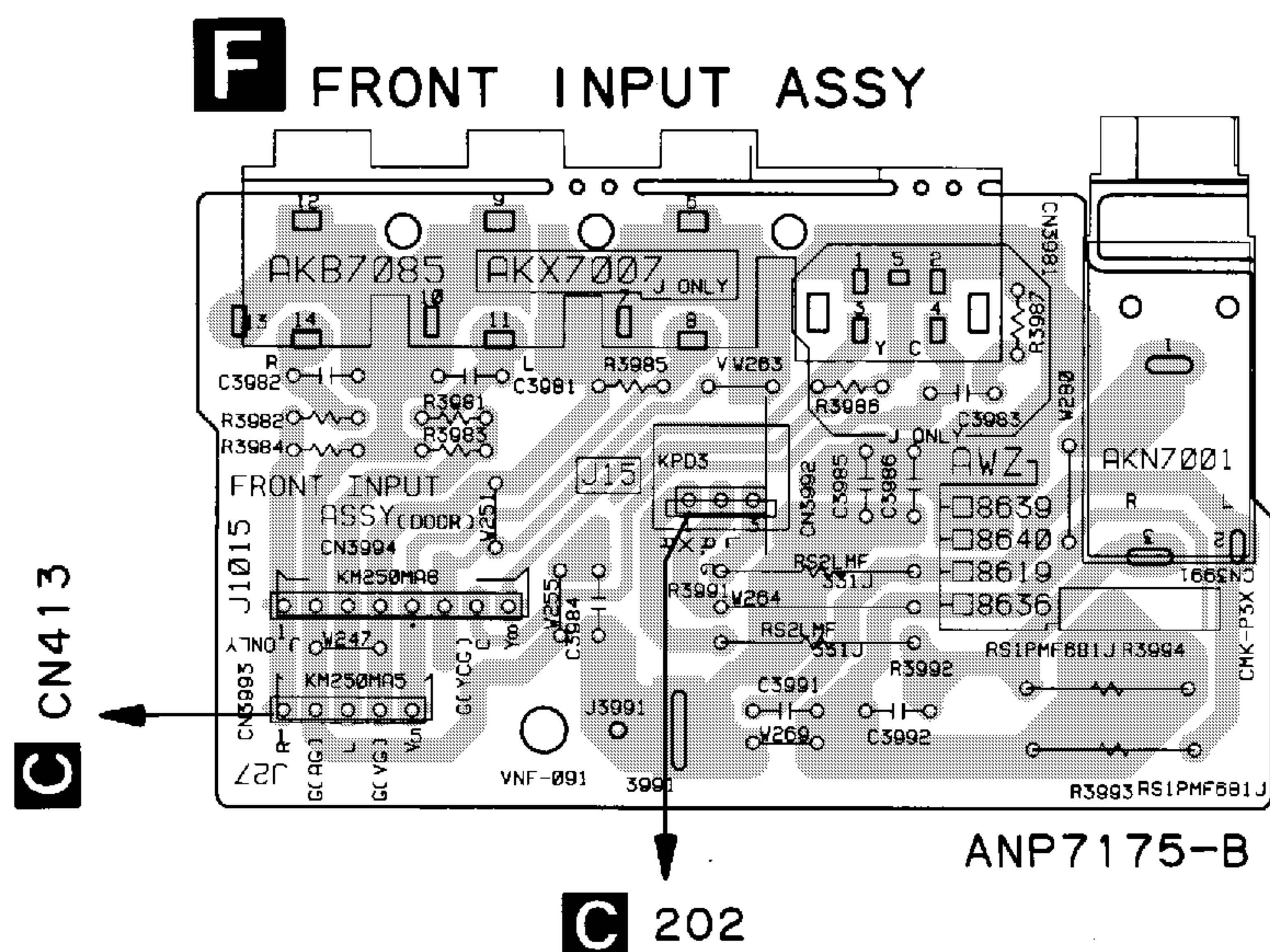
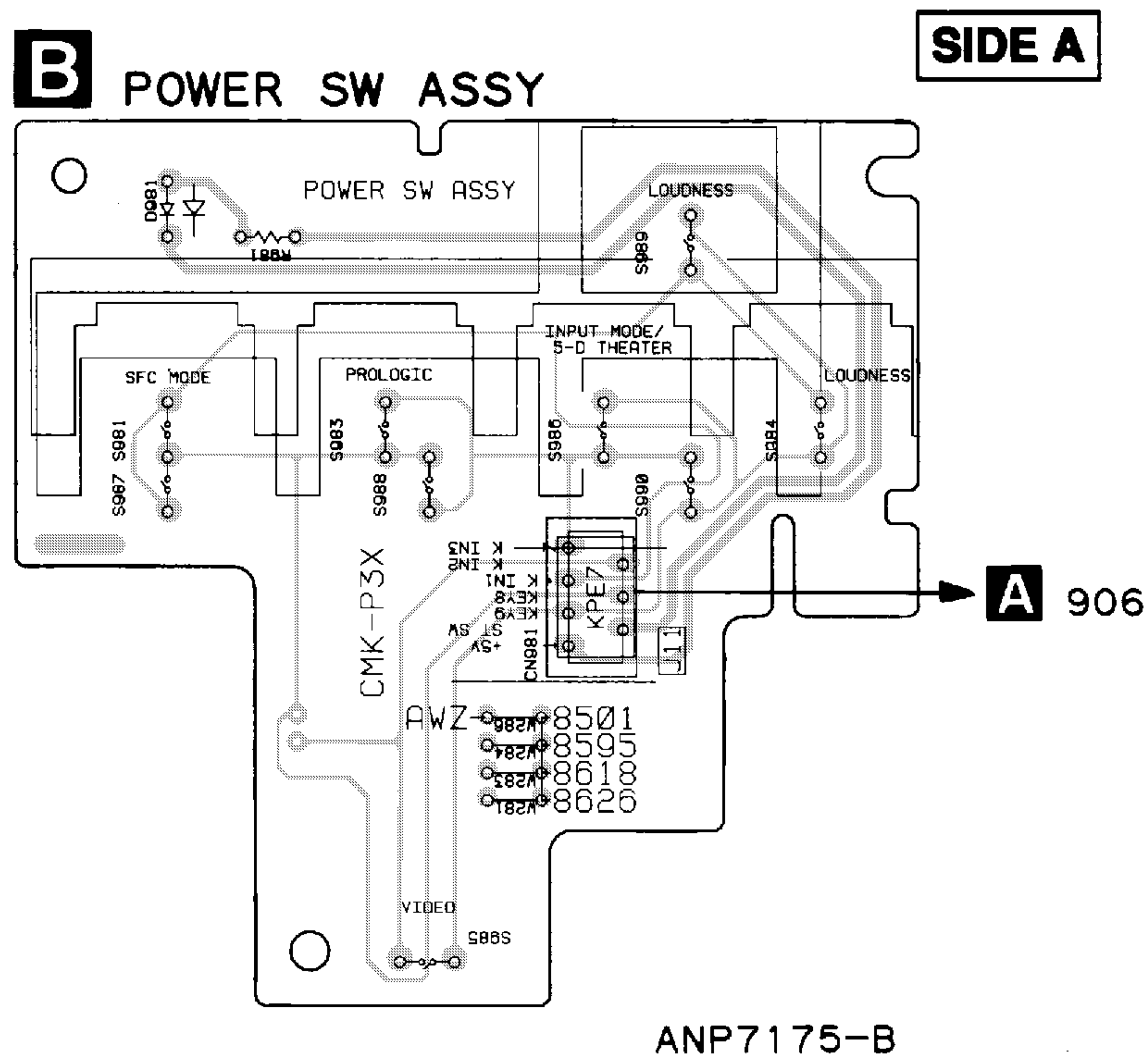




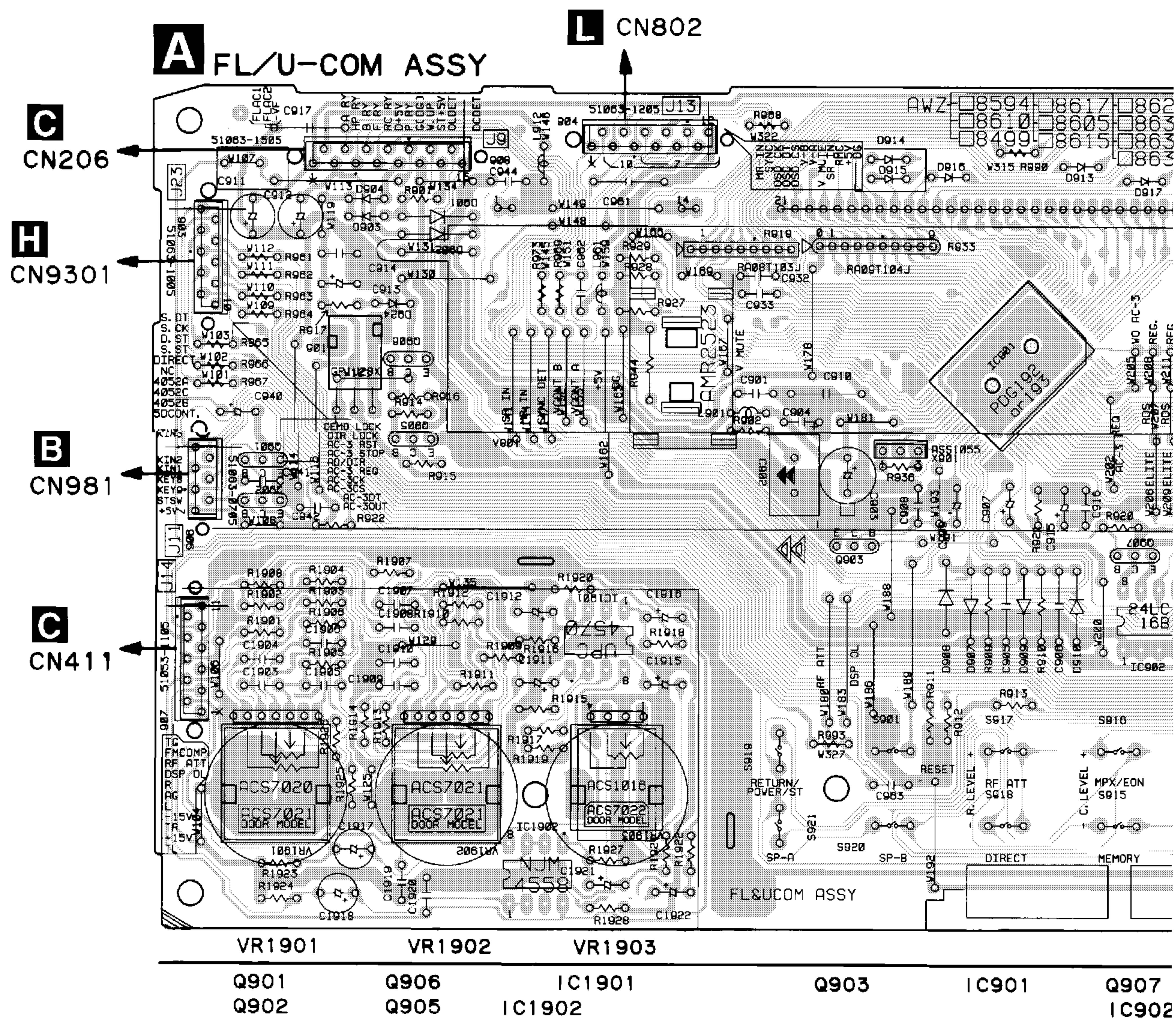
C 1/3 CN407



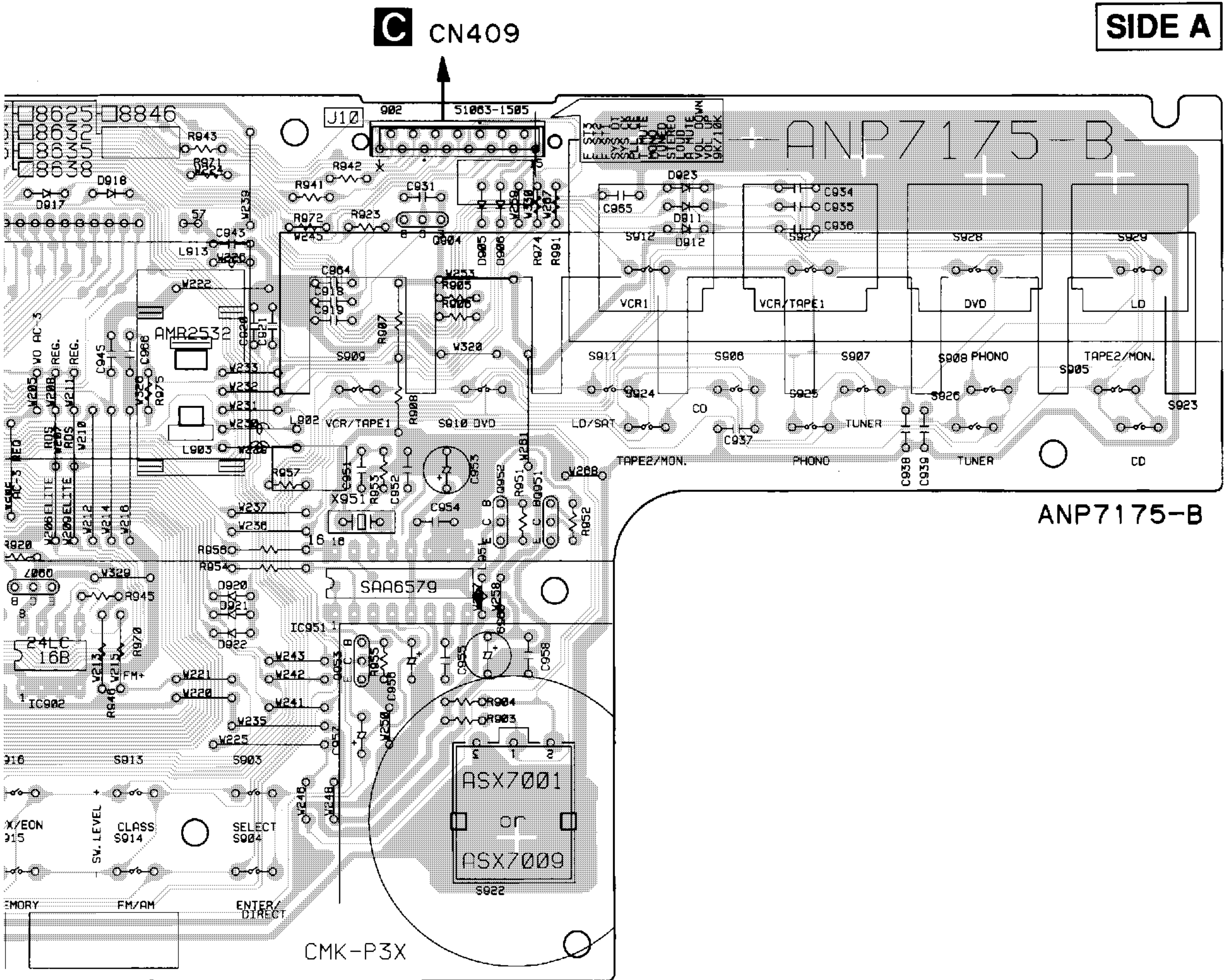
4.2 POWER SWITCH ASSY AND FRONT INPUT ASSY



4.3 FL/U-COM ASSY



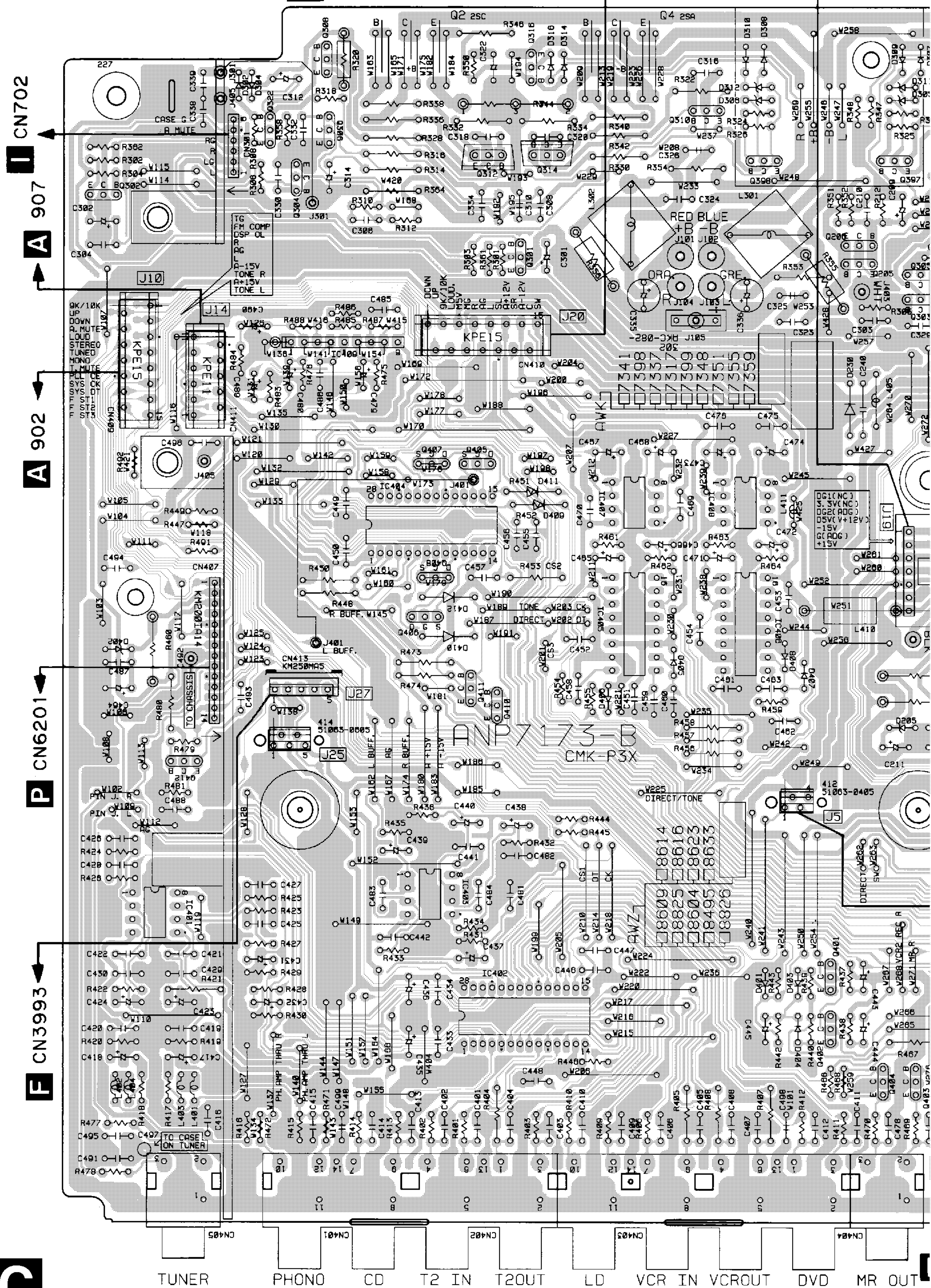
SIDE A

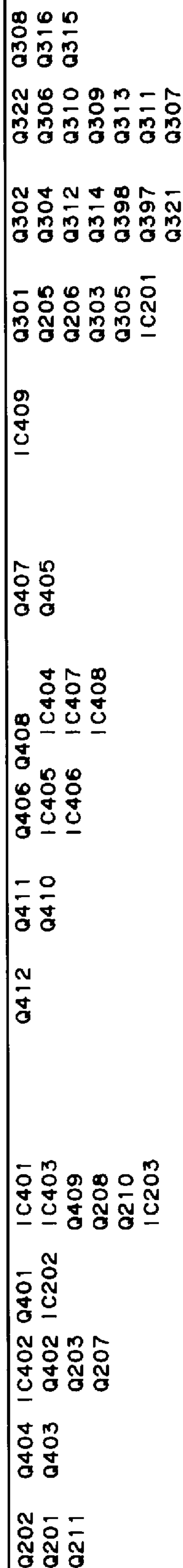


Q907 Q904 Q952 Q951
IC902 IC951
Q953

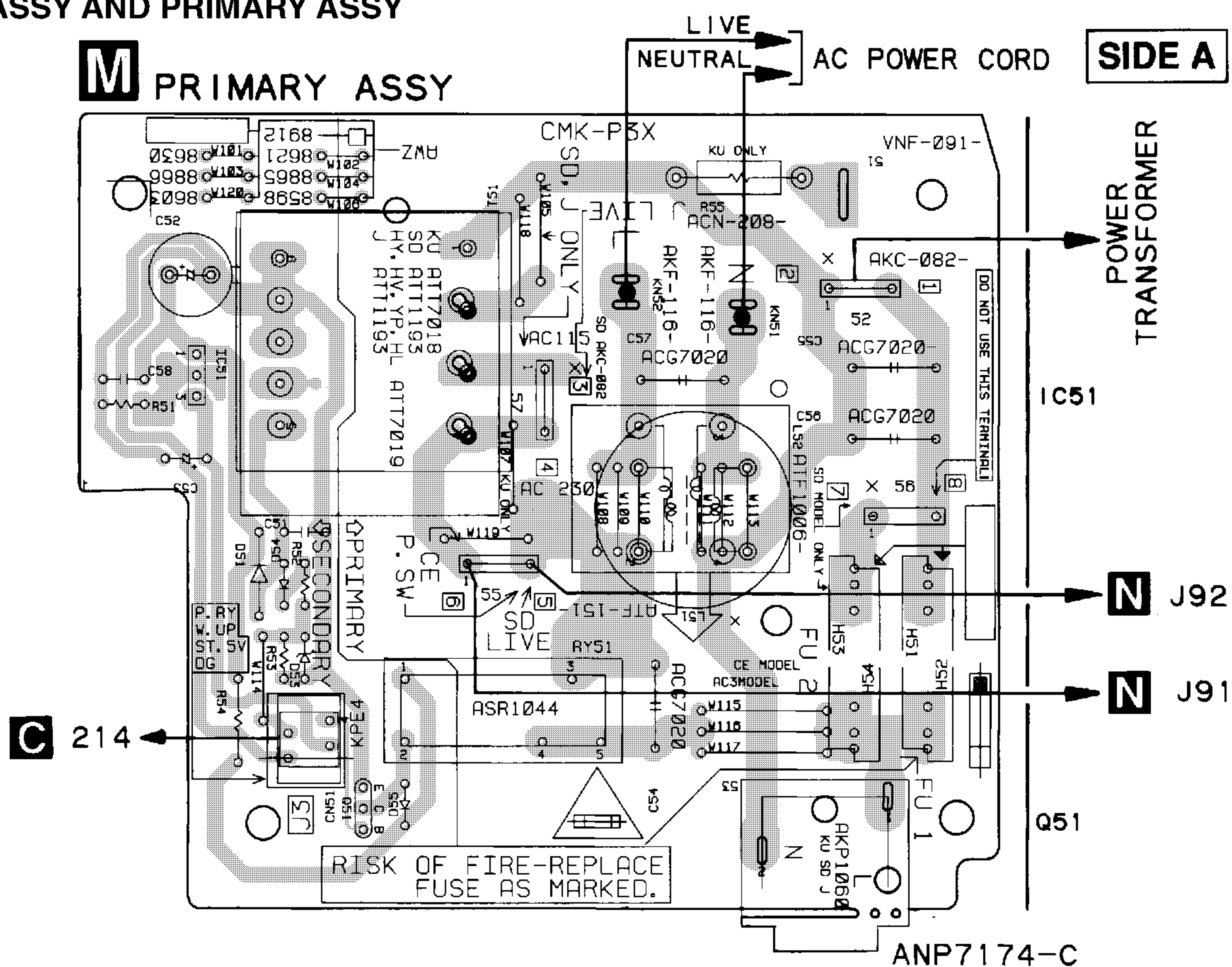
- 701

G 102

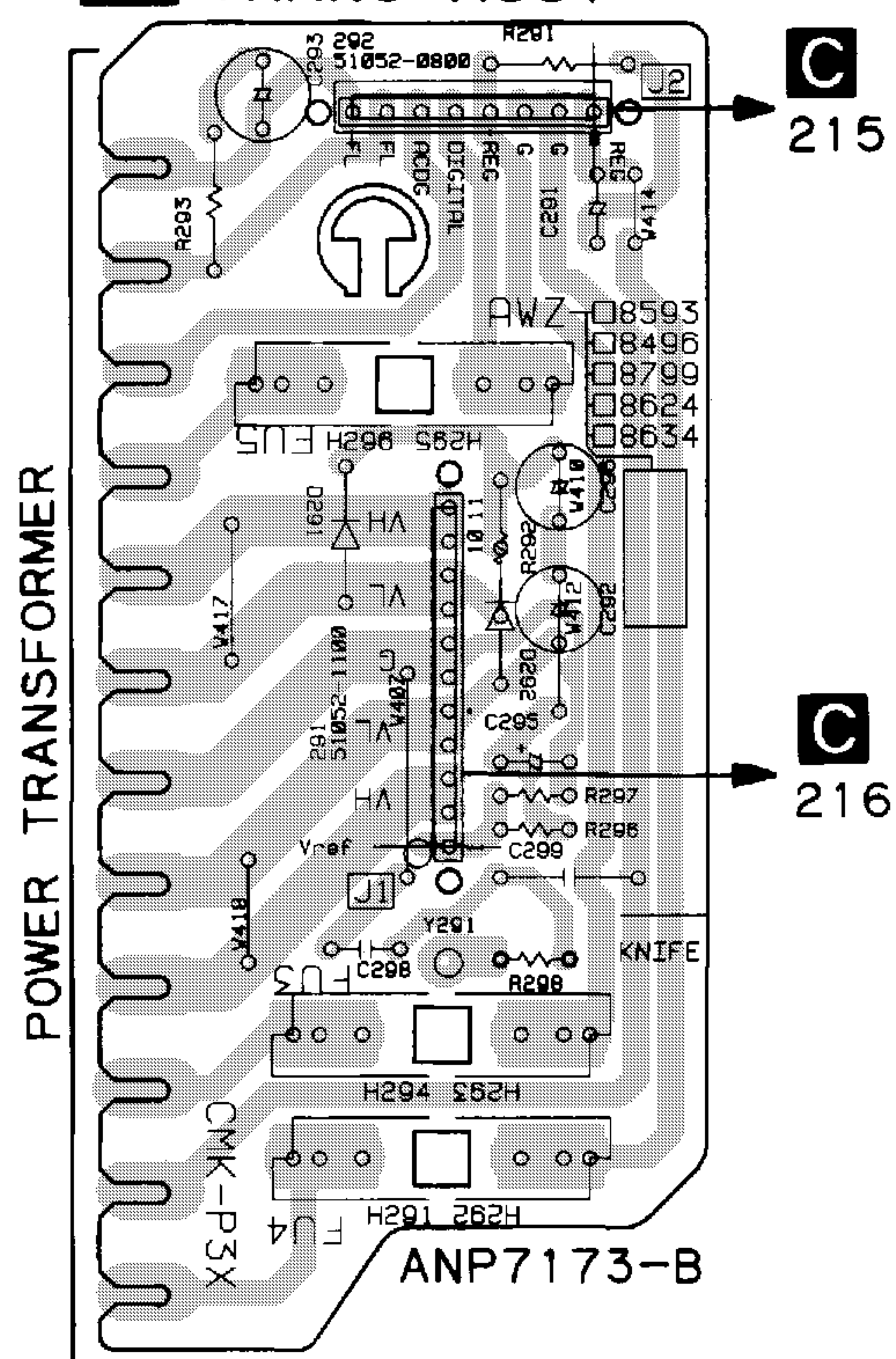




4.5 TRANS ASSY AND PRIMARY ASSY



D TRANS ASSY

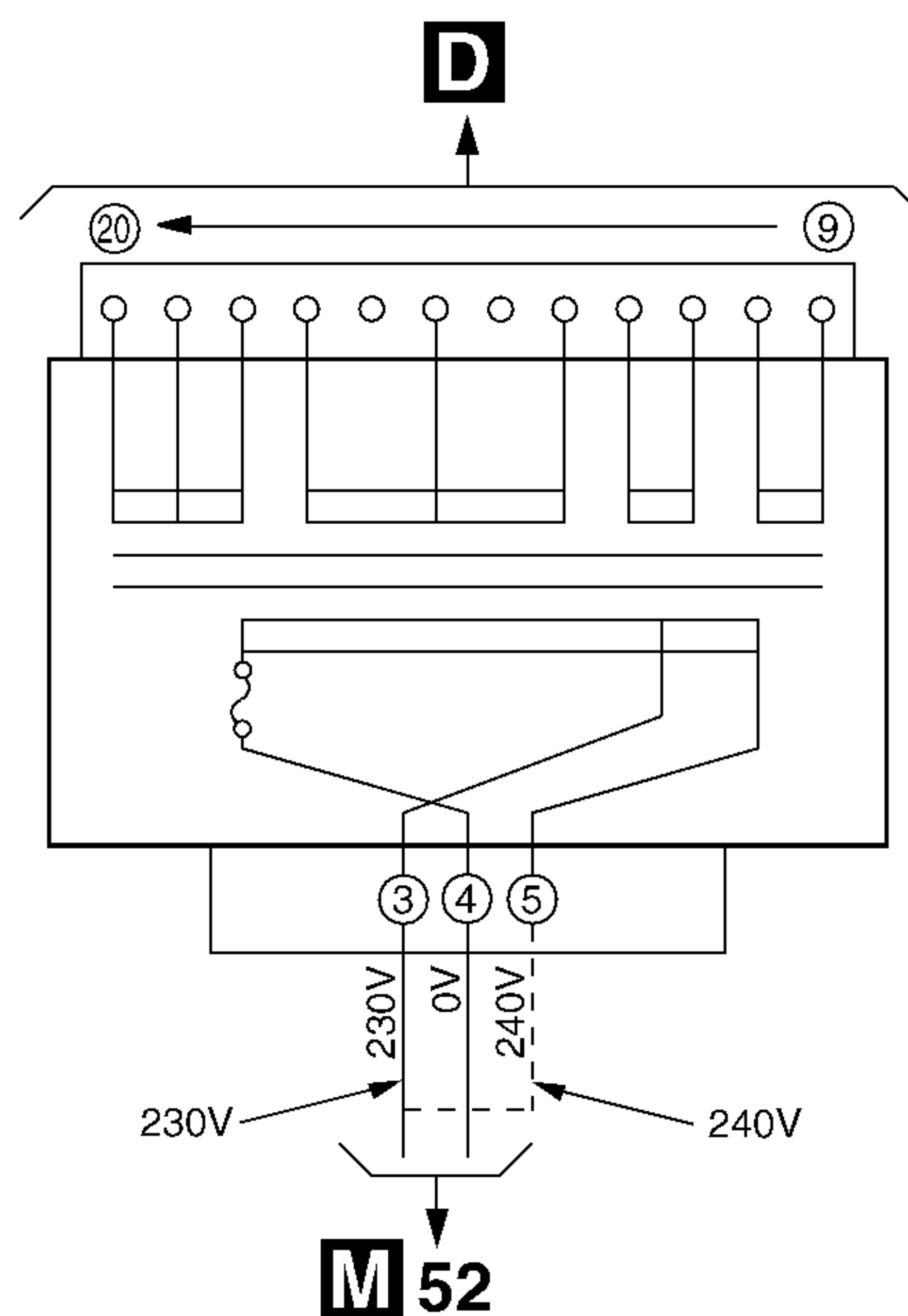


Line Voltage Selection

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 of the power transformer primary taps.
4. Stick a line voltage label on the rear panel.

<u>Part No.</u>	<u>Description</u>
AAX-193	220V label
AAX-192	240V label



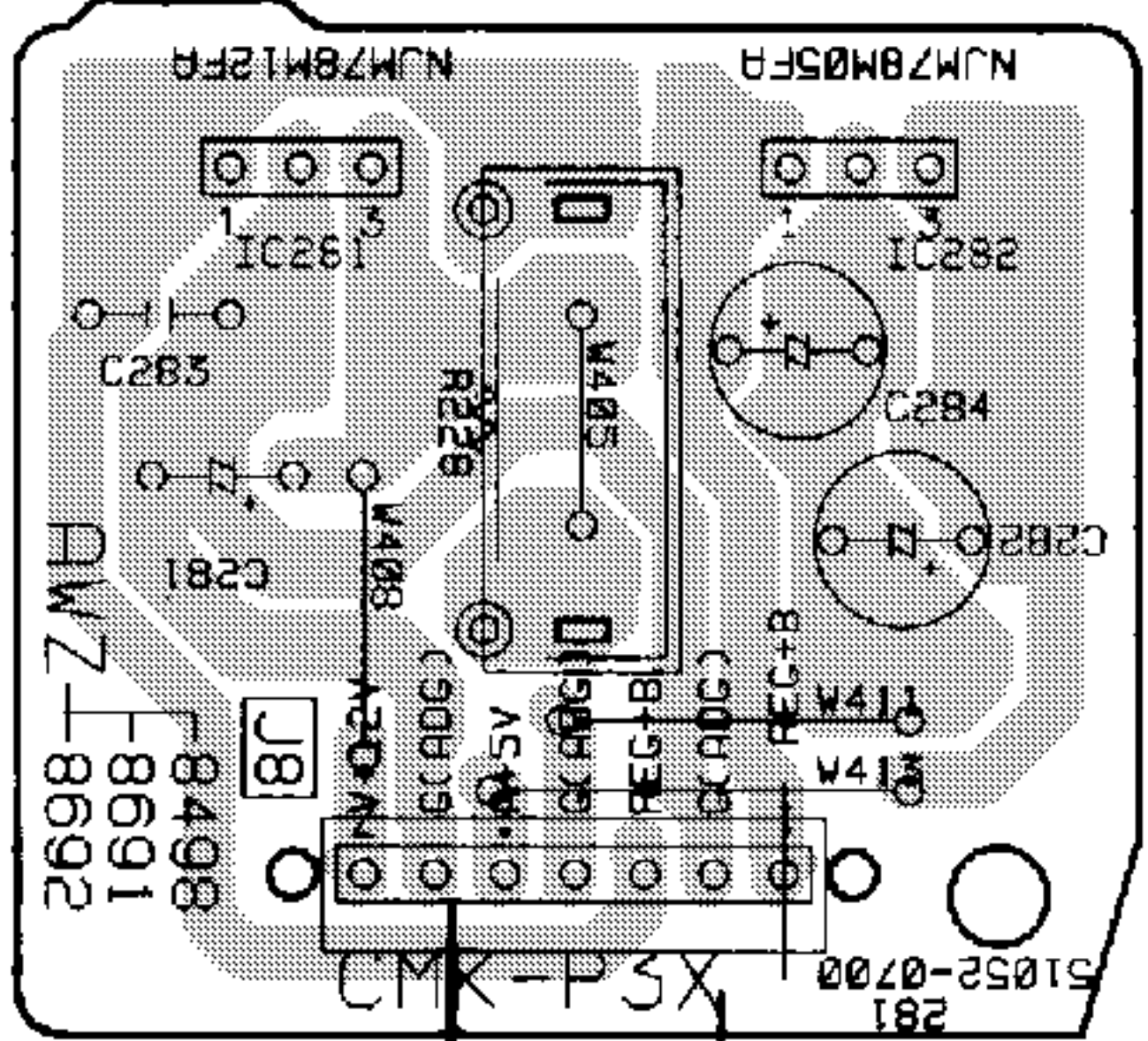
VSX-D736S
4.7 R/C AMP ASSY AND REG.2 ASSY

K R/C AMP ASSY

SIDE A

I CN703

O REG.2 ASSY

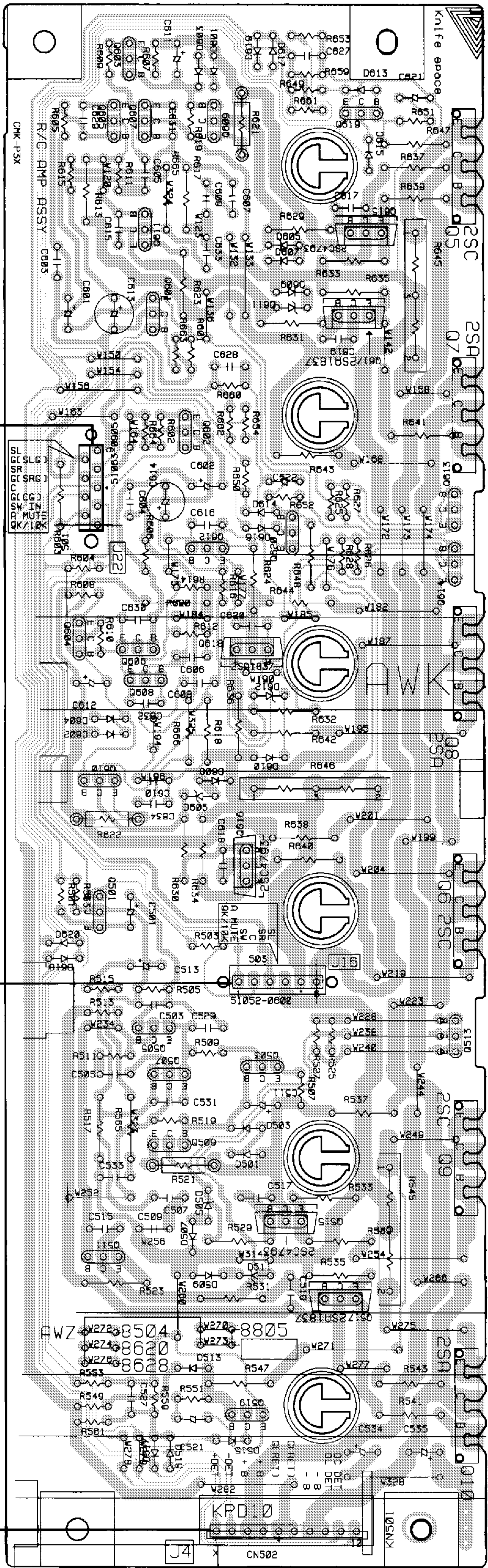


ANP7173-A

C 211

J CN153

C 213

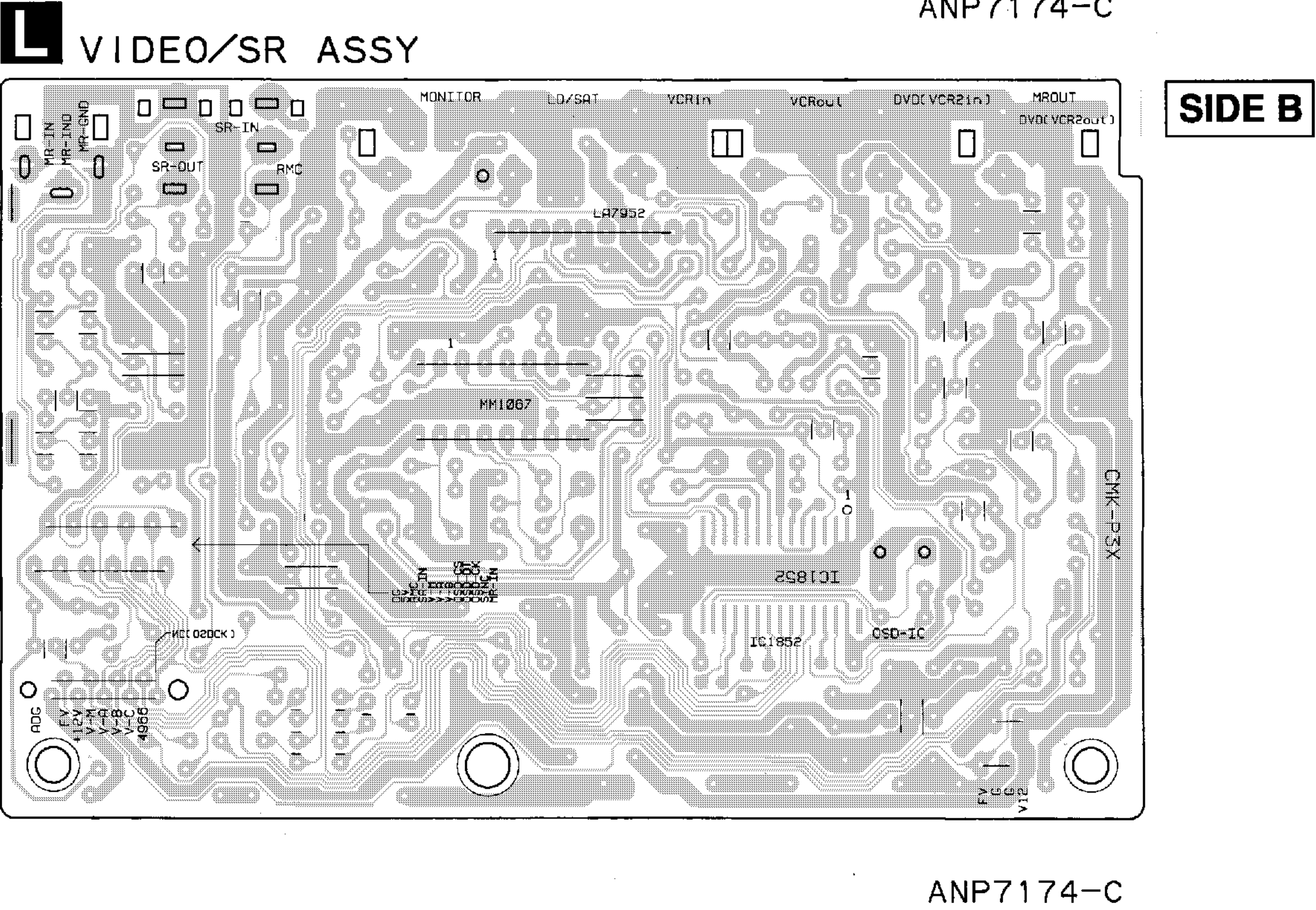
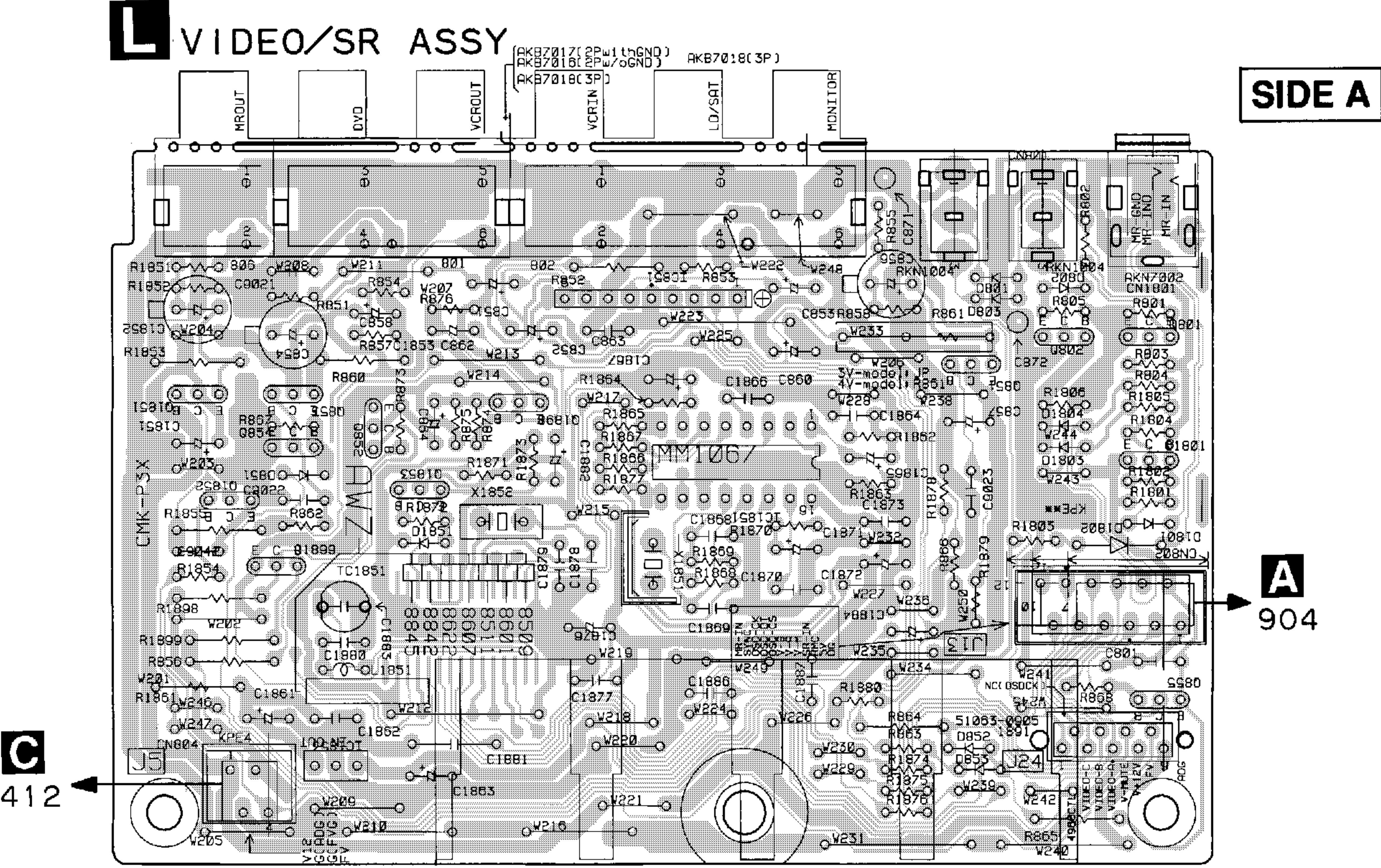


- | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Q511 | Q515 | Q509 | Q507 | Q505 | Q501 | Q610 | Q608 | Q604 | Q612 | Q620 | Q602 | Q601 | Q611 | Q5 | Q605 | Q603 |
| Q517 | Q9 | Q503 | Q513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

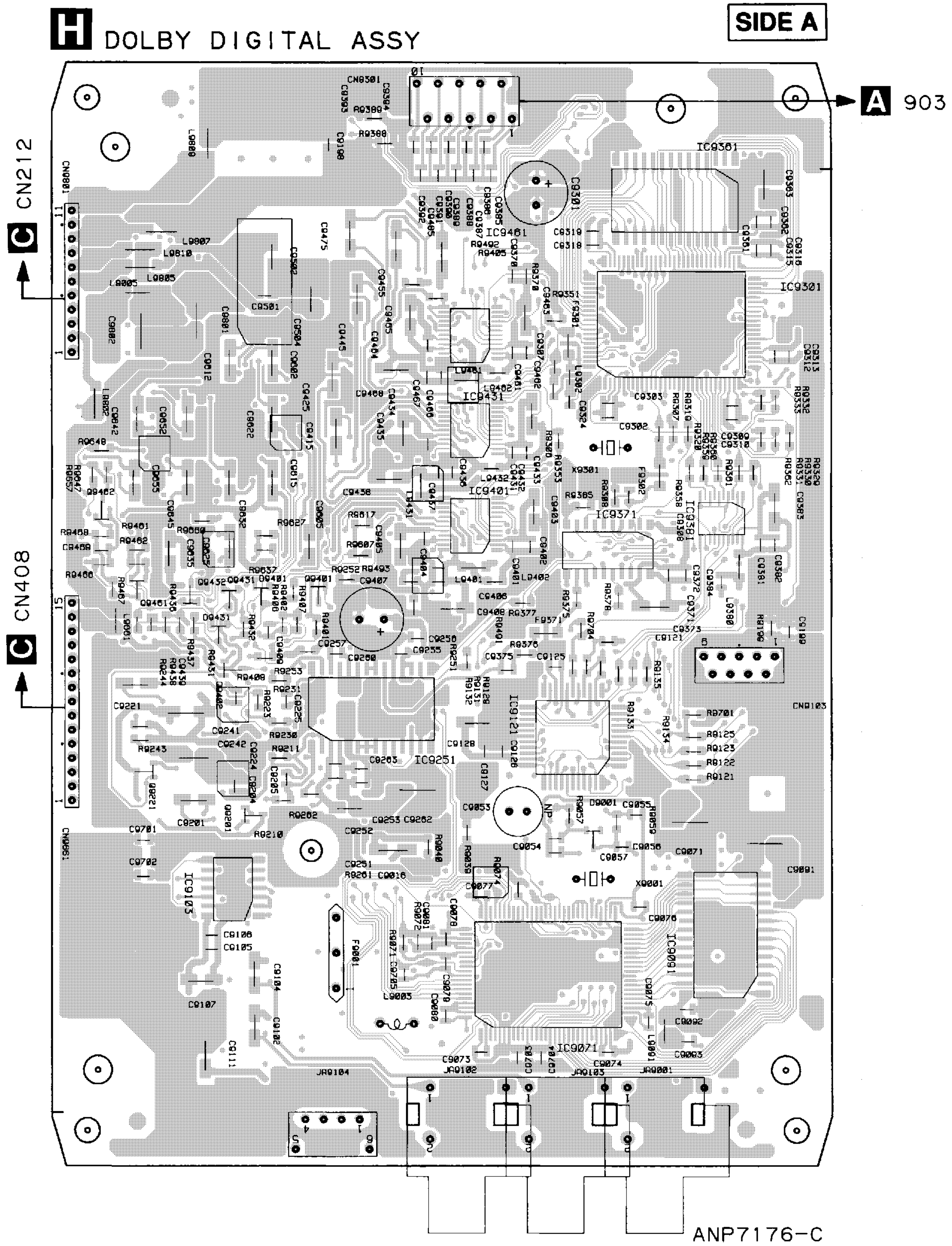
ANP7175-B

K O

4.8 VIDEO/SR ASSY



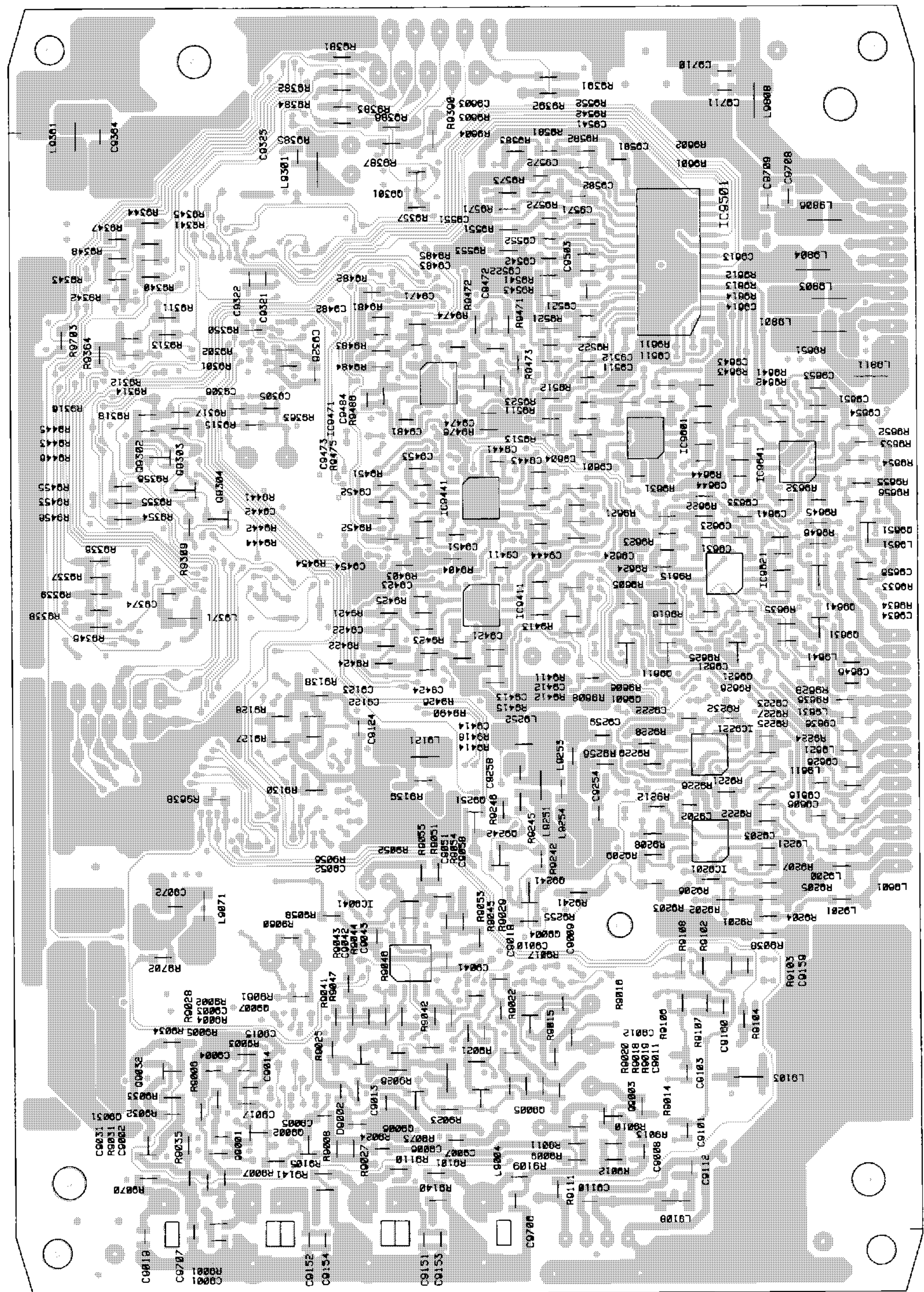
4.9 DOLBY DIGITAL ASSY



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



SIDE B

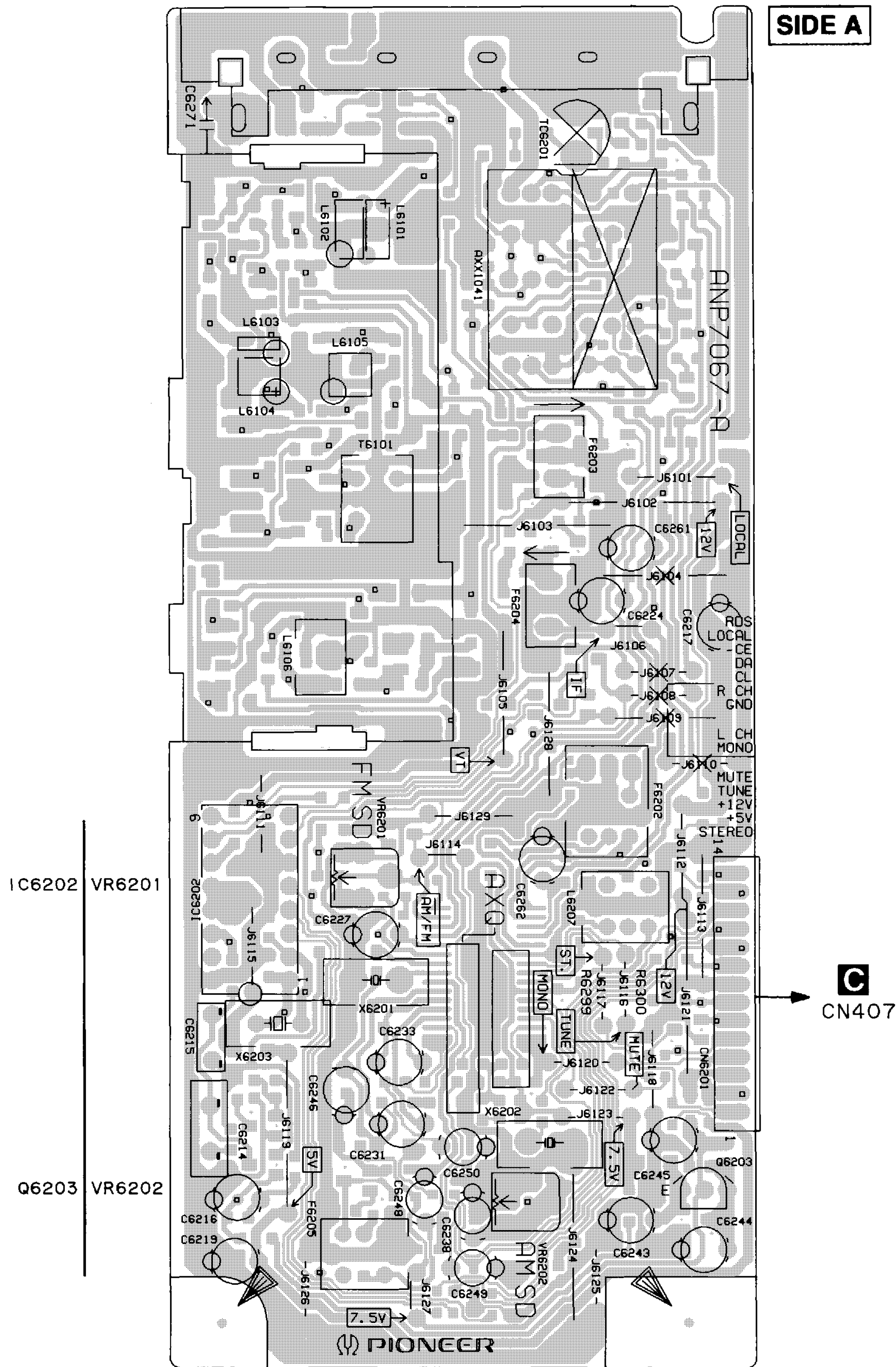


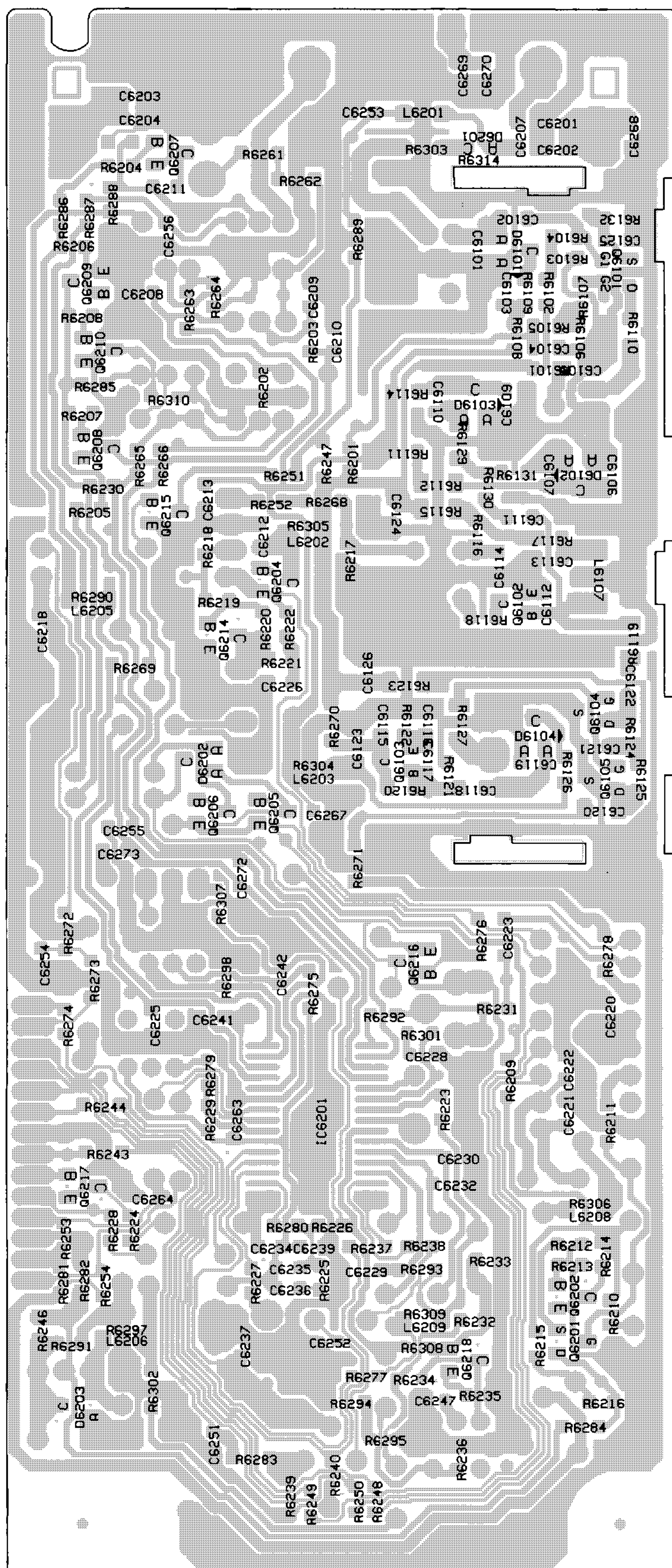
ANP7176-C

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			

4.10 FM/AM TUNER MODULE

P FM/AM TUNER MODULE





SIDE B

Q6207

Q6209
Q6101

Q6210

Q6208

Q6215

Q6204
Q6102
Q6214

Q6104
Q6103
Q6105
Q6205
Q6206

Q6216

1 C6201

Q6217

Q6202
Q6201
Q6218

ANP7067-A

VSX-D736S

5. PCB 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.

- 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%).

560Ω → 56 × 10¹ → 561 RD1/4PU561J

$$47\text{k}\Omega \rightarrow 47 \times 10^3 \rightarrow 473 \dots\dots\dots RD1/4PU\boxed{4}\boxed{7}\boxed{3}J$$
$$0.5\Omega \quad \rightarrow \quad R50 \dots\dots\dots RN2H \boxed{R50} K$$
$$I\Omega \quad \rightarrow \quad IR0 \dots\dots\dots RSIP\overline{I}\overline{R}\overline{0}K$$

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

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

Mark	No.	Description	Parts No.
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LIST OF ASSEMBLIES

NSP	MOTHER ASSY	AWK7359
	└ REG.2 ASSY	AWZ8498
	└ INPUT ASSY	AWZ8633
	└ TRANS ASSY	AWZ8634

NSP	COMPLEX ASSY	AWK7361
NSP	— PRIMARY ASSY	AWZ8630
NSP	— FRONT SP ASSY	AWZ8631
	— VOLUME ASSY	AWZ8841
	— VIDEO/SR ASSY	AWZ8842

NSP	ELITE ASSY	AWK7362
	└ R/C SPEAKER ASSY	AWZ8637

NSP	FRONT & R/C AMP ASSY	AWK7363
NSP	— MECHA SW ASSY	AWZ8503
NSP	— POWER SWITCH ASSY	AWZ8618
	— R/C AMP ASSY	AWZ8628
NSP	— FRONT INPUT ASSY	AWZ8636
	— FL/U – COM ASSY	AWZ8638
	— REG.1 ASSY	AWZ8840

DOLBY DIGITAL ASSY	AWX7041
FM/AM TUNER MODULE	AXQ7041

O REG.2 ASSY

SEMICONDUCTORS

IC282	NJM78M05FA
IC281	NJM78M12FA

CAPACITORS

C282	CEAS101M10
C281	CEAS101M16
C284	CEHAQ470M50
C283	CGCYX103M25

RESISTORS

R228 RS2LMF331J

OTHERS

281	CABLE HOLDER(7P)	51052-0700
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Mark	No.	Description	Parts No.
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C INPUT ASSY

SEMICONDUCTORS

⚠	IC204	AEK7024
	IC401	M5220P
	IC403, IC407, IC408	NJM4558D – D
	IC409	NJM4558LD
	IC201	NJM78M56FA

IC404	TC9162AN
IC402	TC9273N – 007
IC405, IC406	TC9299P
Q307, Q308	2SA1321
Q313, Q314	2SA1837

Q321, Q322	2SA970
Q303 – Q306	2SA992
Q205, Q206, Q397, Q398	2SC1740S
Q401, Q402	2SC1740S
Q315, Q316	2SC2240

Q412	2SC2668
Q301, Q302	2SC2878
Q309, Q310	2SC3334
Q311, Q312	2SC4793
Q201 – Q203, Q211	KRC101M

D201 – D203, D224 – D228, D230	1SS252
D301 – D304, D307 – D310	1SS252
D313 – D316, D403 – D408	1SS252
D212, D213	D15XB20
D305, D306, D311, D312	MTZJ12B

D401, D402	MTZJ5.1B
D222	MTZJ5.1C
D205, D206	MTZJ6.2B
D214 – D221	S5688G

COILS AND FILTERS

L301, L302 (53μH)	ATH1009
L405, L410, L411	LAU220J
L401 – L404	LAU221J

SWITCHES AND RELAYS

RY201 – RY204 ASR7010

Mark	No.	Description	Parts No.
CAPACITORS			
	C227	(0.01μF/AC150V)	ACG1005
	C216	(10000μF/56V)	ACH7014
	C217	(10000μF/56V)	ACH7020
	C419, C420		CCCCH151J50
	C329 – C332, C401, C402		CCCSL101J50
	C405, C406, C409 – C414		CCCSL101J50
	C415, C416, C446 – C448		CCCSL101J50
	C455 – C463, C481, C482		CCCSL101J50
	C317 – C320		CCCSL101K2H
	C303, C304		CCCSL151J50
	C307 – C310		CCCSL220K2H
	C407, C408		CCCSL221J50
	C483, C484		CCCSL331J50
	C333, C334, C403, C404		CCCSL471J50
	C315, C316		CCCSL5R0C2H
	C492		CCDSL271J50
	C321, C322		CEANP2R2M50
	C211, C212		CEAS100M25
	C417, C418		CEAS100M50
	C226, C311, C312		CEAS101M10
	C313, C314, C423, C424		CEAS101M25
	C222		CEAS102M35
	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
	C431, C432, C465 – C468		CEAS4R7M50
	C471 – C474, C479, C480		CEAS4R7M50
	C489, C490		CEAS4R7M50
	C323 – C326		CFTXA104J50
	C230, C488, C491, C496		CGCYX103M16
	C339, C494, C495		CGCYX104M16
	C429, C430, C433, C434		CGCYX473M25
	C441, C442, C449 – C454		CGCYX473M25
	C469, C470, C475, C476, C487		CGCYX473M25
	C337		CGDYX104M16
	C497		CGDYX223M16
	C305, C306		CKCYB102K2H
	C210		CKCYB102K50
	C421, C422		CKCYB681K50
	C225, C485, C486		CKCYF103Z50
	C240		CKPUYF103Z25
	C493		CKPUYX472M16
	C427, C428		CQMA242J50
	C425, C426		CQMA822J50
	C221	(4700μF/35V)	RCH1107

Mark	No.	Description	Parts No.
RESISTORS			
△	R343, R344	(0.33Ω / 5W)	ACN – 139
△	R225	(47Ω / 5W)	ACN7030
	R210		RD1/2PM270J
△	R353, R354		RD1/4PMF100J
△	R327 – R334		RD1/4PMF101J
△	R345, R346		RD1/4PMF472J
△	R319, R320		RD1/4PMF680J
△	R321, R322		RF1/4PS101J
△	R337 – R340		RF1/4PS4R7J
△	R335, R336, R341, R342		RF1/4PS8R2J
△	R355, R356		RS1LMF4R7J
	R460		RS1PMF181J
	R213, R214		RS1PMF271J
△	R226		RS3LMF270J
		Other Resistors	RD1/4PU□□□J
OTHERS			
	202	CABLE HOLDER(3P)	51052 – 0300
	211	CABLE HOLDER(7P)	51052 – 0700
	215, 217	CABLE HOLDER(8P)	51052 – 0800
	213	CABLE HOLDER(10P)	51052 – 1000
	216	CABLE HOLDER(11P)	51052 – 1100
	214, 412	CABLE HOLDER(4P)	51063 – 0405
	JA401 – JA404	PIN JACK(4P)	AKB7044
	223	HEAT SINK	ANH – 309
	221, 222	HEAT SINK B	ANH1021
	CN301	KR CONNECTOR	B6B – PH – K – S
	224 – 226	SCREW	BBZ30P080FZK
	J301	BOARD IN WIRE	DB007NG0
	J402	BOARD IN WIRE	DB022ND0
	CN407	14P PLUG	KM200IA14
	CN212	11P PLUG	KM200TA11
	CN408	15P PLUG	KM200TA15
	CN413	PLUG 5 – P	KM250MA5
	CN411	CONNECTOR(11P)	KPE11
	CN206, CN409, CN410	CONNECTOR(15P)	KPE15
	227	GROUND PLATE	VNF – 091
TRANS ASSY			
CAPACITORS			
	C291 – C293	(1μF/100V)	ACH1237
	C298, C299		CKPUYF103Z25
RESISTORS			
	R291 – R293		RF1/4PS4R7J
		Other Resistors	RD1/4PU□□□J
OTHERS			
	292	CABLE HOLDER(8P)	51052 – 0800
	291	CABLE HOLDER(11P)	51052 – 1100
	H291 – H296	FUSE CLIP	AKR1004

VSX-D736S

Mark No. Description Parts No.

M PRIMARY ASSY

SEMICONDUCTORS

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

COILS AND FILTERS

△ L51	(0.8mH/AC250V)	ATF – 151
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TRANSFORMERS

△ T51		ATT7019
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SWITCHES AND RELAYS

△ RY51		ASR1044
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CAPACITORS

△ C54, C55	(10000pF/AC250V)	ACG7020
C53		CEAS470M16
C52		CEAS471M16
C51		CGCYX103M25

RESISTORS

R54		RD1/2PM270J
	Other Resistors	RD1/4PU□□□J

OTHERS

H51, H52	FUSE CLIP	AKR1004
CN51	CONNECTOR(4P)	KPE4

E FRONT SP ASSY

CAPACITORS

C1205, C1206		CQMXA103J2A
C1201 – C1204		CQMXA473J2A

OTHERS

1203	CABLE HOLDER(4P)	51052–0400
1201	SPEAKER TERMINAL 8 – P	AKE7026

I VOLUME ASSY

SEMICONDUCTORS

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

CAPACITORS

C720, C721	CCCSL271J50
C703, C704	CCPUSL470J50
C719	CEANP100M50
C722	CEAS220M50
C701, C702, C705 – C708	CEAS4R7M50

Mark No. Description Parts No.

C711 – C714, C717, C718	CEAS4R7M50
C729, C730	CFTXA473J50
C723 – C728	CGCYX104M25
C715	CKPUYB681K50
C709, C710, C716	CKPUYB820K50

RESISTORS

VR701	(100kΩ – A5×6)	ACX7028
	Other Resistors	RD1/4PU□□□J

OTHERS

701	CABLE HOLDER(15P)	51063 – 1505
CN702	KR CONNECTOR	B6B – PH – K – S
CN703	CONNECTOR(9P)	KPE9

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
C9021	CGCYX103M16

C871, C872	CGDYX103M16
C863	CKCYB102K50
C801	CKCYF103Z50

RESISTORS

R860, R861		RD1/4PM331J
	Other Resistors	RD1/4PU□□□J

OTHERS

801	2P RCA PINJACK	AKB7017
802	3P RCA PINJACK	AKB7018
CN804	CONNECTOR(4P)	KPE4
CN802	CONNECTOR(7P)	KPE7
JA803, JA807	JACK	RKN1004

J R/C SPEAKER ASSY

SEMICONDUCTORS

Q151	2SC1740S
Q161 – Q163	2SC2878
D151 – D154	1SS252

COILS AND FILTERS

L151 – L153	(1μH)	ATH – 133
L154 – L156	(0.7μH)	ATH1004

SWITCHES AND RELAYS

RY151, RY152		ASR7010
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Mark	No.	Description	Parts No.
CAPACITORS			
	C154, C158, C159		CCCSL101J50
	C161 – C166		CFTXA104J50
	C168		CGCYX103M16
	C155		CGCYX472M25
	C160, C167		CGCYX473M16
	C151 – C153		CQMXA473J2A
RESISTORS			
	R183 – R185		RD1/4PMF100J
△	R186 – R188		RS1LMF4R7J
	Other Resistors		RD1/4PU□□□J
OTHERS			
154	CABLE HOLDER(6P)	51052 – 0600	
CN152	PIN JACK(4P)	AKB7087	
CN151	SPEAKER TERMINAL 6 – P	AKE7040	
N MECHA SW ASSY			
SWITCHES AND RELAYS			
△	S91		ASG1035
CAPACITORS			
△	C91	(3300pF/AC250V)	ACG7017
OTHERS			
J91	LEAD WIRE UNIT	DB640EB0	
J92	LEAD WIRE UNIT	DB940EB0	
B POWER SWITCH ASSY			
SEMICONDUCTORS			
	D981		BR3371XJ30A
SWITCHES AND RELAYS			
	S985, S987 – S990		ASG1034
RESISTORS			
	All Resistors		RD1/4PU□□□J
OTHERS			
CN981	CONNECTOR(7P)	KPE7	
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, D507, D509, D513	1SS252	
	D515, D601 – D604, D607 – D610	1SS252	
	D613 – D616	1SS252	
	D505, D511, D605, D606	MTZJ12B	
	D611, D612	MTZJ12B	

Mark	No.	Description	Parts No.
CAPACITORS			
	C529, C531, C629 – C632		CCCSL101J50
	C517, C519, C617 – C620		CCCSL101K2H
	C503, C603, C604		CCCSL151J50
	C507, C509, C607 – C610		CCCSL270K2H
	C533, C633, C634		CCCSL471J50
	C515, C615, C616		CCCSL5R0C2H
	C521, C621, C622		CEANP2R2M50
	C511, C611, C612		CEAS101M10
	C513, C613, C614		CEAS101M25
	C501, C601, C602		CEAS2R2M50
	C534, C535		CEAS4R7M2A
	C505, C605, C606		CKCYB102K2H
RESISTORS			
△	R545, R645, R646 (0.22Ω×2 / 5W)		ACN7026
△	R529, R531, R533, R535		RD1/4PMF101J
△	R629 – R636		RD1/4PMF101J
△	R547, R647, R648		RD1/4PMF472J
△	R521, R621, R622		RD1/4PMF680J
△	R607		RD1/4PU431J
△	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	CABLE HOLDER(6P)	51052 – 0600	
501	CABLE HOLDER(9P)	51063 – 0905	
KN501	EARTH METAL FITTING	VNF1084	
F FRONT INPUT ASSY			
CAPACITORS			
	C3981, C3982		CCCSL221J50
	C3984 – C3986		CGCYX473M16
	C3991, C3992		CKCYB392K50
RESISTORS			
	R3993, R3994		RS1PMF681J
	R3991, R3992		RS2LMF331J
	Other Resistors		RD1/4PU□□□J
OTHERS			
CN3981	PIN JACK(3P)	AKB7085	
CN3991	JACK	AKN7001	
CN3993	PLUG 5 – P	KM250MA5	
3991	GROUND PLATE	VNF – 091	
A FL/U-COM ASSY			
SEMICONDUCTORS			
	IC1902		NJM4558D – D
	IC901		PDG210A
	IC1901		UPC4570C
	Q904		2SA933S
	Q905, Q906		2SC1740S

VSX-D736S

Mark	No.	Description	Parts No.
		Q901, Q903	KRC101M
		Q902	KRC103M
		D901 – D912, D914 – D918	1SS252
		D920, D921, D923, D924	1SS252
COILS AND FILTERS			
		L902, L903	LAU100J
		L901, L961	LAU2R2J
SWITCHES AND RELAYS			
		S901, S903, S904, S913 – S916	ASG1034
		S918 – S921, S923 – S929	ASG1034
		S922	ASX7009
CAPACITORS			
		C902 (0.22F)	ACH7058
		C932, C933	CCPUSL220J50
		C911	CEAS101M35
		C903	CEAS221M10
		C907, C909	CEAS2R2M50
		C940	CEAS470M16
		C913	CEAS470M25
		C912	CEAS470M35
		C1911, C1912, C1915 – C1918	CEJA100M50
		C1921, C1922	CEJA2R2M50
		C1907, C1908	CFTXA123J50
		C1905, C1906	CFTXA274J50
		C1903, C1904	CFTXA473J50
		C1909, C1910	CFTXA563J50
		C1919, C1920	CGCYX103M16
		C908	CGCYX104M16
		C914	CKCYF103Z50
		C934 – C939, C941, C942	CKPUYB101K50
		C919	CKPUYB102K50
		C905, C906	CKPUYF473Z16
		C901, C904, C917, C918, C931	CKPUYY103M16
		C945, C961 – C964	CKPUYY103M16
		C910	CKPYF103Z50
RESISTORS			
		R919	RA8T103J
		VR1901, VR1902 (30kΩ – 20A×2)	ACS7021
		VR1903 (500kΩ)	ACS7022
		Other Resistors	RD1/4PU□□□J
OTHERS			
		906 CABLE HOLDER(7P)	51063 – 0705
		903 CABLE HOLDER(10P)	51063 – 1005
		907 CABLE HOLDER(11P)	51063 – 1105
		904 CABLE HOLDER(12P)	51063 – 1205
		902, 908 CABLE HOLDER(15P)	51063 – 1505
		V901 FL TUBE	AAV7034
		X901 CERAMIC RESONATOR (7.70MHz)	ASS1055
		901 REMOTE RECEIVER UNIT	GP1U28X

Mark	No.	Description	Parts No.
G REG.1 ASSY			
SEMICONDUCTORS			
		IC103	NJM78M05FA
		IC101	NJM78M15FA
		IC102	NJM79M15FA
		IC104	PQ20RV1E
		D101	1SS252
CAPACITORS			
		C107	CEAS101M10
		C105, C106	CEAS101M16
		C108	CEAS470M10
		C104	CEAS470M16
		C101 – C103	CKCYF103Z50
RESISTORS			
		R102	RN1/4PC3000F
		R103	RN1/4PC5100F
		R101	RS3LMF8R2J
OTHERS			
		101 CABLE HOLDER(6P)	51052 – 0600
		102 CABLE HOLDER(7P)	51052 – 0700
H DOLBY DIGITAL ASSY			
SEMICONDUCTORS			
		IC9401, IC9431, IC9461	AK4319 – VM
		IC9251	AK5340 – VS
		IC9121	CD0004AF
		IC9361	KM62V256CLG – 7L
		IC9091	LH52256AN – 70LL
		IC9301	MB86342A
		IC9201, IC9221	NJM2100M
		IC9041, IC9411, IC9441, IC9471, IC9601	NJM4558MD
		IC9621, IC9641	NJM4558MD
		IC9501	PA4025A
		IC9071	PM4007A
		IC9371	TC74HCT244AF
		IC9103	TC74HCU04AF
		IC9381	TC74LVX244FS
		Q9007, Q9241, Q9401, Q9431, Q9461	2PB709A
		Q9003, Q9031, Q9032, Q9242, Q9402	2PD601A
		Q9432, Q9462	2PD601A
		Q9201, Q9221, Q9601, Q9611, Q9621	2SC3326
		Q9631, Q9641, Q9651	2SC3326
		Q9001, Q9002, Q9004 – Q9006	2SC3802K
		Q9304	DTA124EK
		Q9251, Q9301 – Q9303	DTC124EK
		D9401, D9431	1SS181
		D9002	1SS355
		D9001	KV1851
COILS AND FILTERS			
		F9001 (2.88MHz)	ATF7001
		F9301, F9302, F9371	ATF7013
		L9003 (68μH)	ATH7001
		L9301, L9801 – L9811	ATL7001
		L9200, L9201, L9221, L9252 – L9254	ATX1026

Mark	No.	Description	Parts No.
		L9402, L9432, L9462, L9601, L9611 L9621, L9631, L9641, L9651 L9302 L9004, L9005, L9071, L9091, L9103 L9121, L9251, L9361, L9371, L9380	ATX1026 ATX1026 LCTBR47K2125 VTL1019 VTL1019
		L9401, L9431, L9461, L9661	VTL1019
CAPACITORS			
		C9415, C9425, C9445 (22μF/16V) C9455, C9475, C9485 (22μF/16V) C9201, C9221, C9602, C9605, C9612 (10μF/16V) C9615, C9622, C9625, C9632, C9635 (10μF/16V)	ACH7038 ACH7038 ACH7039 ACH7039
		C9642, C9645, C9652, C9655 (10μF/16V) C9105, C9122, C9126, C9159, C9160 C9255, C9263, C9302, C9309, C9312 C9315, C9318, C9321, C9361, C9381	ACH7039 CCSQCH101J50 CCSQCH101J50 CCSQCH101J50
		C9401, C9406, C9431, C9436, C9461 C9466 C9511, C9521, C9541, C9551, C9571 C9606, C9616, C9626, C9636, C9646 C9656	CCSQCH101J50 CCSQCH101J50 CCSQCH102J50 CCSQCH102J50 CCSQCH102J50
		C9413, C9414, C9423, C9424 C9443, C9444, C9453, C9454 C9473, C9474 C9125, C9203, C9223, C9305, C9306 C9412, C9422, C9442, C9452, C9472	CCSQCH151J50 CCSQCH151J50 CCSQCH151J50 CCSQCH220J50 CCSQCH221J50
		C9482 C9057 C9151, C9152, C9512, C9522, C9542 C9552, C9572, C9702, C9704, C9709 C9711	CCSQCH221J50 CCSQCH270J50 CCSQCH271J50 CCSQCH271J50 CCSQCH271J50
		C9603, C9613, C9623, C9633, C9643 C9705 C9326, C9392 C9307, C9308, C9375 C9007	CCSQCH391J50 CCSQCH470J50 CCSQCH471J50 CCSQCH560J50 CCSQCH750J50
		C9053 C9301 C9257 C9107, C9128, C9403, C9405, C9408 C9433, C9435, C9438, C9463, C9465	CEANP470M25 CEAS102M6R3 CEAS471M6R3 CEV100M16 CEV100M16
		C9468, C9502, C9504 C9016 C9071, C9091, C9262 C9241 C9801, C9802	CEV100M16 CEV100M35 CEV101M6R3 CEV221M4 CEV330M25
		C9242, C9363, C9373, C9383 C9031, C9371 C9014, C9054, C9056, C9092, C9101 C9103, C9153, C9154, C9701, C9703 C9706 – C9708, C9710	CEV470M6R3 CKSQYB102K50 CKSQYB103K50 CKSQYB103K50 CKSQYB103K50

Mark	No.	Description	Parts No.
		C9581, C9121 C9205, C9225 C9483, C9484 C9582 C9653	CKSQYB104K25 CKSQYB152K50 CKSQYB153K50 CKSQYB273K50 CKSQYB393K50
		C9001 – C9006, C9008 – C9013, C9015 C9017, C9018, C9043, C9051, C9052 C9055, C9058, C9073 – C9081, C9106 C9123, C9127, C9202, C9204, C9222 C9224, C9251, C9253, C9256, C9259	CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25
		C9303, C9310, C9313, C9316, C9319 C9322, C9324, C9362, C9372, C9382 C9402, C9404, C9407, C9409, C9411 C9421, C9432, C9434, C9437, C9439 C9441, C9451, C9462, C9464, C9467	CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25
		C9469, C9471, C9481, C9501, C9503 C9601, C9611, C9621, C9631, C9641 C9651 C9041, C9042	CKSQYF104Z25 CKSQYF104Z25 CKSQYF104Z25 CKSQYF105Z16

RESISTORS

All Resistors	RS1/10S□□□J
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OTHERS

JA9000	PIN JACK(3P) DOLBY DIGITAL PCB	AKB7091 ANP7183
X9301	CRYSTAL RESONATOR (18.432MHz)	ASS1035
X9001	CRYSTAL FOR VCXO (18.432MHz)	ASS7009
CN9801	11P SOCKET	KP200TA11L
CN9661	15P SOCKET	KP200TA15L
CN9301	CONNECTOR(10P)	KPE10

P FM/AM TUNER MODULE

SEMICONDUCTORS

IC6201 IC6202 Q6102 Q6203 Q6202, Q6218	LA1836M LM7001J 2SC2223 2SC2235 2SC2712
Q6103, Q6214 Q6201 Q6104, Q6105 Q6101 Q6204	2SC2714 2SK208 2SK302 3SK194 XDA124EK
Q6215, Q6217 D6101 – D6104 D6201	XDC124EK 1SV228 HVVU187

COILS AND FILTERS

L6106 L6105 L6101 L6102 L6103	ATC1003 ATC1015 ATC1016 ATC1017 ATC1018
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Mark	No.	Description	Parts No.
	L6104		ATC1019
	L6207		ATE1013
	F6204		ATF – 107
	F6203		ATF – 119
	F6205		ATF1152
	F6202		ATF1156
	L6107		ATH1043
	L6209		LCTA221J3225
	L6201 – L6203, L6208		LCTA2R2J3225
	L6205		LCTA680J3225
TRANSFORMERS			
	T6101		ATE – 063
CAPACITORS			
	C6204, C6234, C6236, C6254, C6269		ACG1051
	(1µH/16V)		
	C6229		CCSCH102J50
	C6120		CCSCH6R0D50
	C6113		CCSQCH101J50
	C6116, C6208, C6221, C6222		CCSQCH150J50
	C6117		CCSQCH330J50
	C6118		CCSQCH8R0D50
	C6111, C6122		CCSQCK1R0C50
	C6112		CCSQCK2R0C50
	C6272		CCSQSL330J50
	C6105		CCSQSL471J50
	C6101		CCSQTH110J50
	C6119		CCSQTH150J50
	C6109		CCSQTH270J50
	C6107, C6110		CCSQTH300J50
	C6106		CCSQTH330J50
	C6231, C6233, C6262		CEAS100M50
	C6216, C6217		CEAS330M16
	C6219		CEAS470M10
	C6243 – C6245		CEAS470M16
	C6227		CEAS470M25
	C6246, C6248		CEEA100M50
	C6224		CEEA101M25
	C6238		CEJA100M16
	C6261		CEJA1R0M50
	C6249, C6250		CEJA4R7M35
	C6215		CFTXA103J50
	C6214		CFTXA224J50
	C6115, C6125, C6126, C6207		CKSQYB102K50

Mark	No.	Description	Parts No.
	C6102, C6114, C6121, C6124, C6210		CKSQYB103K50
	C6253, C6264		CKSQYB103K50
	C6247		CKSQYB122K50
	C6213		CKSQYB223K50
	C6230		CKSQYB273K50
	C6228		CKSQYB472K50
	C6209, C6237, C6267		CKSQYB473K50
	C6251, C6252		CKSQYB562K50
	C6212, C6218		CKSQYF103Z50
	C6220		CKSQYF104Z25
	C6226, C6239, C6242, C6255, C6256		CKSQYF223Z50
	C6235		CKSQYF224Z25
	C6225, C6241		CKSQYF473Z50
	C6123		CKSYB103K50
	C6232		CKSYB273K50
	C6223		CKSYF103Z50
	C6263		CKSYF473Z50
RESISTORS			
	R6299, R6300		RD1/4PU102J
	R6115, R6119, R6123, R6127, R6129		RS1/8S0R0J
	R6268 – R6273, R6275, R6276, R6278		RS1/8S0R0J
	R6283, R6284, R6289, R6293, R6294		RS1/8S0R0J
	R6297, R6302, R6303		RS1/8S0R0J
	R6243, R6244		RS1/8S101J
	R6211, R6239		RS1/8S103J
	R6237		RS1/8S122J
	R6247		RS1/8S152J
	R6209		RS1/8S221J
	R6112		RS1/8S473J
	VR6201	(10kΩ / 0.1W)	ACP1056
	VR6202		VRTB6VS223
		Other Resistors	RS1/10S□□□□J
OTHERS			
	BN6201	2P TERMINAL WITH PAL	AKA1017
	X6203	CRYSTAL RESONATOR (7.200MHz)	ASS1042
	X6201	CRYSTAL RESONATOR (456kHz)	ASS1066
	X6202	CERAMIC RESONATOR (450kHz)	ATF1027
	CN6201	14P SOCKET	KP2001A14L
		AM RF TUNING BLOCK	AXX1025

6. 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, ±75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Center Adjustment	98	80	98MHz	L6207	Adjust so that the DC voltage between IC6201-Pin 4 and Pin 28 (or + leads of C6224 and C6261) becomes 0V±50mV.
2	Front End Sensitivity adjustment	106	Low input (0 to 30)	106MHz	L6104 L6105 L6102 T6101	After adjusting L6104 and L6105 so that the DC voltage between IC6201-Pin 12 and GND (or + leads of C6238 and GND) becomes at maximum level, adjust T6101 and L6102.
3	Stereo Distortion	98	80	98MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
4	TUNED IND. Lighting Level	98	15 (±2dB)	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 and between L6103 and L6104. 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 sequence : L6104 → L6105 → L6102 → T6101.

■ 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, 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dBμV/m)			
1	TUNED IND. Lighting Level	999*1	47(±2dB)	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

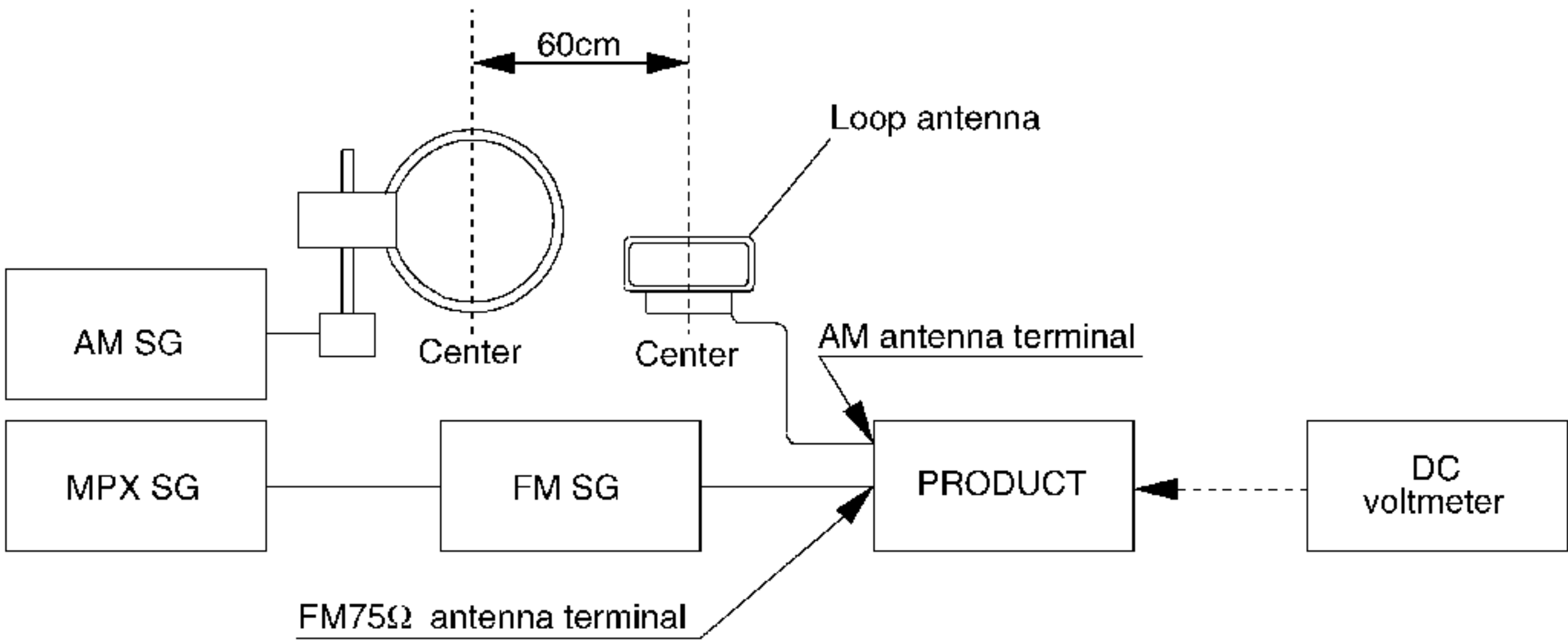


Fig. 6-1 AM and FM Adjustment Wiring Diagram

FM/AM TUNER MODULE

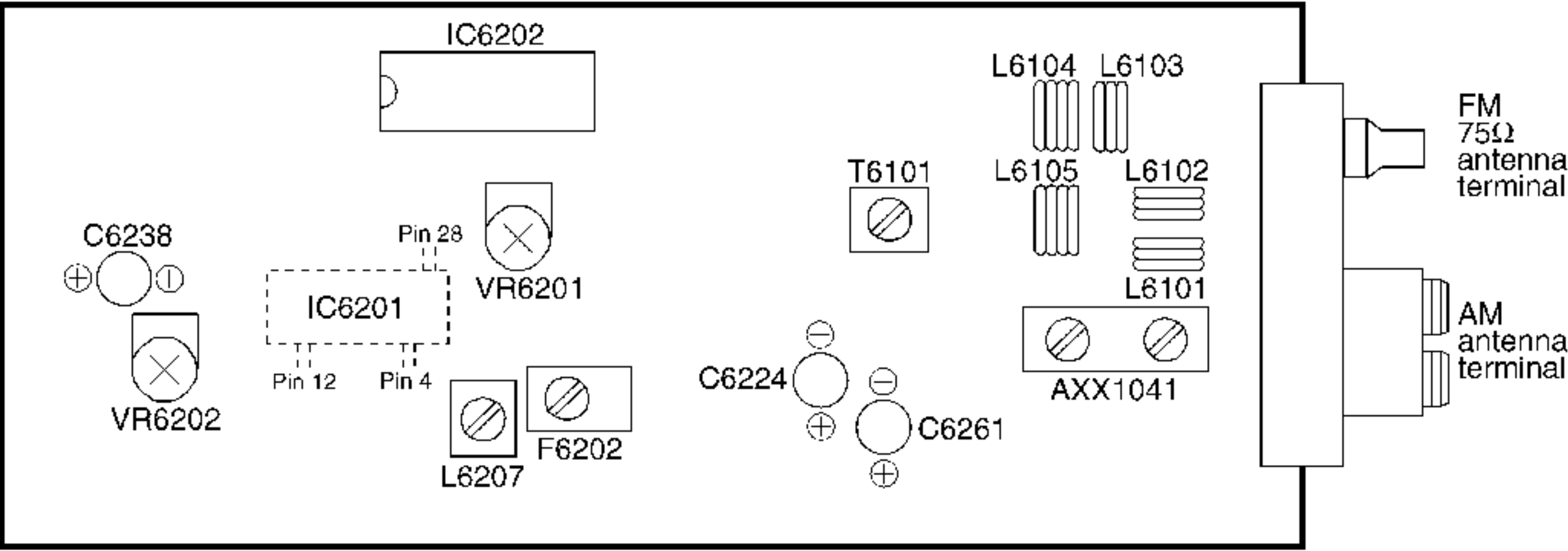


Fig. 6-2 Adjustment Points

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.

■ PDG210A (FL/U-COM ASSY : IC901)

● Microcomputer Port Function Table

PIN No.	PIN NAME	FUNCTION	RESET	I/O	FUNCTION
1	G1/A1	O/O	Hi-Z or PD	O	FL Grid 2
2	G0/A0	O/O	Hi-Z or PD	O	FL Grid 1
3	NC	(5V)			(5V)
4	PE0/EC0/INT0	I/I/I	Hi-Z	I	AC WAKE-UP
5	PE1/EC1/INT1	I/I/I	Hi-Z	I	RDS DT
6	PE2/INT2	I/I	Hi-Z	I	RDS CK
7	PE3/INT3/NMI	I/I/I	Hi-Z	I	AC-3 REQ.
8	PE4/RMC	I/I	Hi-Z	I	RMC
9	PE5	I/I	Hi-Z	I	9K/10K
10	PE6/PWM	O/O	H	O	VOL.UP
11	PE7/TO/ADJ	O/O/O	H	O	VOL.DOWN
12	PC0/KR0	IO/I	Hi-Z	I	TUNED
13	PC1/KR1	IO/I	Hi-Z	I	STEREO
14	PC2/KR2	IO/I	Hi-Z	I	JOG 1
15	PC3/KR3	IO/I	Hi-Z	I	JOG 2
16	PC4/KR4	IO/I	Hi-Z	I	KEY IN 1
17	PC5/KR5	IO/I	Hi-Z	I	KEY IN 2
18	PC6/KR6	IO/I	Hi-Z	I	KEY IN 3
19	PC7/KR7	IO/I	Hi-Z	I	DEM. LOCK
20	PB0/CINT	IO/I	Hi-Z	I	DIR. LOCK
21	PB1/CS0	IO/I	Hi-Z	O	AC-3 RST
22	PB2/SCK0	IO/IO	Hi-Z	O	AC-3 CK
23	PB3/SI0	IO/I	Hi-Z	I	AC-3 OUT
24	PB4/SO0	IO/I	Hi-Z	O	AC-3 DT
25	PB5/SCK1	IO/IO	Hi-Z	O	AC-3 CS
26	PB6/SI1	IO/I	Hi-Z	O	AD/DIR
27	PB7/SO1	IO/O	Hi-Z	O	AC-3 STOP
28	AVREF	I	(5V)	I	5V
29	PA0/AN0	IO/AI	Hi-Z	I	KU-HY Selection
30	PA1/AN1	IO/AI	Hi-Z	O	FM+ (RDS)
31	PA2/AN2	IO/AI	Hi-Z	O	RF ATT (RDS)
32	PA3/AN3	IO/AI	Hi-Z	O	DSP OL
33	PA4/AN4	IO/AI	Hi-Z	I	AMP OL
34	PA5/AN5	IO/AI	Hi-Z	I	AMP DC
35	PA6/AN6	IO/AI	Hi-Z	O	V.CONT B
36	PA7/AN7	IO/AI	Hi-Z	O	V.CONT A
37	AVss	(GND)	GND		GND
38	RST	I	LOW	I	RST
39	EXTAL	I	Oscillation	I	Oscillation
40	XTAL	O	Oscillation	O	Oscillation
41	Vss	(GND)	GND		GND
42	TX	O		O	OPEN
43	TEX	I		I	GND
44	VDD	(5V)	5V		5V
45	VFDP	(VF)	VF		VF
46	PD0/A55	O/O	Hi-Z or PD	O	V.MUTE
47	PD1/A54	O/O	Hi-Z or PD	O	AC RY
48	PD2/A53	O/O	Hi-Z or PD	O	R.C. RY
49	PD3/A52	O/O	Hi-Z or PD	O	FRONT RY
50	PD4/A51	O/O	Hi-Z or PD	O	SP-B RY

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PIN No.	PIN NAME	FUNCTION	RESET	I/O	FUNCTION
51	PD5/A50	O/O	Hi-Z or PD	O	HP RY
52	PD6/A49	O/O	Hi-Z or PD	O	SP-A RY
53	PD7/A48	O/O	Hi-Z or PD	O	no use
54	PF0/A47	O/O	Hi-Z or PD	O	no use
55	PF1/A46	O/O	Hi-Z or PD	O	no use
56	PF2/A45	O/O	Hi-Z or PD	O	(OPEN)
57	PF3/A44	O/O	Hi-Z or PD	O	(OPEN)
58	PF4/A43	O/O	Hi-Z or PD	O	F. ST 3
59	PF5/A42	O/O	Hi-Z or PD	O	F. ST 2
60	PF6/A41	O/O	Hi-Z or PD	O	F. ST 1
61	PF7/A40	O/O	Hi-Z or PD	O	SYS. DT
62	PG0/A39	O/O	Hi-Z or PD	O	SYS. CK
63	PG1/A38	O/O	Hi-Z or PD	O	PLL CE
64	PG2/A37	O/O	Hi-Z or PD	O	T. MUTE
65	PG3/A36	O/O	Hi-Z or PD	O	A. MUTE
66	PG4/A35	O/O	Hi-Z or PD	O	MONO
67	PG5/A34	O/O	Hi-Z or PD	O	LOUDNESS
68	PG6/A33	O/O	Hi-Z or PD	O	(OPEN)
69	PG7/A32	O/O	Hi-Z or PD	O	SEG.21
70	PH0/A31	O/O	Hi-Z or PD	O	SEG.20
71	PH1/A30	O/O	Hi-Z or PD	O	SEG.19
72	PH2/A29	O/O	Hi-Z or PD	O	SEG.18/KEY 1
73	PH3/A28	O/O	Hi-Z or PD	O	SEG.17/KEY 2
74	PH4/A27	O/O	Hi-Z or PD	O	SEG.16/KEY 3
75	PH5/A26	O/O	Hi-Z or PD	O	SEG.15/KEY 4
76	PH6/A25	O/O	Hi-Z or PD	O	SEG.14/KEY 5
77	PH7/A24	O/O	Hi-Z or PD	O	SEG.13/KEY 6
78	A23	O	Hi-Z or PD	O	SEG.12/KEY 7
79	A22	O	Hi-Z or PD	O	SEG.11/KEY 8
80	A21	O	Hi-Z or PD	O	SEG.10/KEY 9
81	A20	O	Hi-Z or PD	O	SEG. 9/KEY10
82	A19	O	Hi-Z or PD	O	SEG. 8
83	A18	O	Hi-Z or PD	O	SEG. 7
84	A17	O	Hi-Z or PD	O	SEG. 6
85	A16	O	Hi-Z or PD	O	SEG. 5
86	G15/A15	O/O	Hi-Z or PD	O	SEG. 4
87	G14/A14	O/O	Hi-Z or PD	O	SEG. 3
88	G13/A13	O/O	Hi-Z or PD	O	SEG. 2
89	V _{DD}	5V	5V		5V
90	G12/A12	O/O	Hi-Z or PD	O	SEG. 1
91	G11/A11	O/O	Hi-Z or PD	O	FL Grid12
92	G10/A10	O/O	Hi-Z or PD	O	FL Grid11
93	G9/A9	O/O	Hi-Z or PD	O	FL Grid10
94	G8/A8	O/O	Hi-Z or PD	O	FL Grid 9
95	G7/A7	O/O	Hi-Z or PD	O	FL Grid 8
96	G6/A6	O/O	Hi-Z or PD	O	FL Grid 7
97	G5/A5	O/O	Hi-Z or PD	O	FL Grid 6
98	G4/A4	O/O	Hi-Z or PD	O	FL Grid 5
99	G3/A3	O/O	Hi-Z or PD	O	FL Grid 4
100	G2/A2	O/O	Hi-Z or PD	O	FL Grid 3

Pin No.	Port Function	Logic	Function
4	AC WAKE UP input	50 or 60 Hz square wave	Same as the conventional model. Normal operation mode when signals are input. When signals are absent and 2 waves are dropped, the "STOP mode" should be set. Note) To prevent incorrect operations due to noise and static electricity, implement noise removal measures.
5	RDS DATA input	Depending on SAA6579	DATA for the serial control of RDS communication.
6	RDS CLK input	Depending on SAA6579	CLK for the serial control of RDS communication.
8	SR remote controller input	SR remote controller code (no carrier, Hi active).	The output of the light-receiving section of the remote controller of the unit and output from SR IN of the light-receiving section of the remote controller of other unit are input.
9	Freq. step select input (9K/10K)	H/L	Selects frequency steps of the tuner. FM AM H 100K 10K L 50K 9K
10	VOL.UP output	Lo active	Motor volume control. Defined as Lo when VOL.UP.
11	VOL.DOWN output	Lo active	Motor volume control. Defined as Lo when VOL.DOWN.
12	TUNED input	Hi active	Lo is input when the tuner is being tuned. "TUNED" lights up in the FL display. Functions only during TUNER FUNCTION and normally does not function.
13	STEREO input	Hi active	Lo is input when the tuner receives a stereo broadcasting. "STEREO" lights up on the FL display. Does not function when the forcible monaural is ON. Functions only during TUNER FUNCTION and normally does not function.
14	JOG 1 input	Pulse Lo input Normally H	JOG counterclockwise direction input. The input sensitivity is the same as the conventional model. (1 click, 1 step?)
15	JOG 2 input	Pulse Lo input Normally H	JOG clockwise direction input. The input sensitivity is the same as the conventional model. (1 click, 1 step?)
16-18	KEY SCAN input		KEY SCAN input of the unit key.
29	Destination select	H/L	H:/KU series model (including /SD) L:/HY series model (including /HL, YP)
32	DSP input level sensitivity	Analog input	0 to 5V input level is input to DSP. When the input level exceeds 2.1V, (ATT)"OVERLOAD" lights up on the FL display. Functions only when analog signals (including AUTO) are input to the DSP. Does not function when the front speaker is set to "LARGE" or in a 2ch playback (including DIRECT). When the front speaker is set to "SMALL", this port functions in 2ch playback (including DIRECT). AC-3 model only.
33	OL.DETECT input	Lo active	Input of the protection circuit as OVERLOAD DETECTOR. When Lo is input, this port opens relays other than the AC relay. "OVERLOAD" flashes on the 8th digits of the FL display for five seconds.

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Pin No.	Port Function	Logic	Function																				
34	DC.DETECT input	Lo active	Input of the protection circuit as DC DETECTOR. When Lo is input, this port opens relays other than the AC relay. “POWEROFF” flashes on the 8th digits of the FL display.																				
35, 36	VIDEO IC CONT. output	H/L Depending on LA7952	2-bit parallel control for the video function IC. Refer to SW specification.																				
38	RESET	Lo active	Same specification as VSX-605S																				
39 40	Oscillation input Oscillation output		7.7MHz (ASS1055)																				
46	VIDEO signal MUTE output	Lo active	Output for muting MOTOR OUT Becomes H when in the audio FUNCTION.																				
30	RDS decoder VDD ON/OFF and FM/AM selection	H active	Turns ON/OFF the RDS decoder Tr switch for VDD. Lo when in AM and Hi in FM of the function tuner. Lo when the power is OFF. H at other times even when functions other than TUNER are set.																				
31	RF ATT ON/OFF output	H active	Turns the Tr switch of the RF attenuator ON/OFF. Lights up "RF ATT" in FL when the Tr switch is ON. Operates only when the system is in TUNER FUNCTION mode. Normally, it is set to Lo.																				
58	TC9299 ST output	Depending on TC9299	Serial control STROBE for the electric volume (for REAR, CENT., SUB WF) TC9299 (x2). 3 lines of 58, 61, and 62 (AC-3 model only).																				
59	TC9162 ST output	Depending on TC9162	Serial control STROBE for the function IC TC9162. 3 lines of 59, 61, and 62 (AC-3 model only).																				
60	TC9273 ST output	Depending on TC9273	Serial control STROBE for the function IC TC9273. 3 lines of 60, 61, and 62.																				
61	SYS.DATA output	Depending on TC9273, TC9162, TC9299, and LM7001	Controls PLL IC, AUDIO FUNC. IC, E.VOL. IC with a serial control data. (TC9162 and TC9299 are only for AC-3 model)																				
62	SYS.CK output	Depending on TC9273, TC9162, TC9299, and LM7001	Controls PLL IC, AUDIO FUNC. IC, E.VOL. IC with a serial control clock. (TC9162 and TC9299 are only for AC-3 model)																				
63	PLL CE. output	Depending on LM7001	CHIP ENABLE for the tuner PLL IC serial control. 3 lines of 61, 62, and 63																				
64	T.MUTE ON/OFF output	H active	Muting control for the tuner output. Muting timing is the same as the conventional model. Set to H in functions other than TUNER.																				
66	TUNER forcible monaural ON/OFF output	H active	Set to H when the forcible monaural is ON in the MPX mode of the TUNER function.																				
51	HP.RY ON/OFF output	H active	Turns ON/OFF the Tr switch for the headphone RY.																				
52 50 49	SP-A RY SP-B RY FRONT RY ON/OFF output	H active	Turns ON/OFF the Tr switch for the front SP to be connected in series. Logic is as follows. <table><tr><td></td><td>52</td><td>50</td><td>49</td></tr><tr><td>SP-A ON</td><td>H</td><td>Lo</td><td>H</td></tr><tr><td>SP-B ON</td><td>Lo</td><td>H</td><td>H</td></tr><tr><td>A,B ON</td><td>Lo</td><td>Lo</td><td>H</td></tr><tr><td>A,B OFF</td><td>Hi</td><td>Hi</td><td>Lo</td></tr></table>		52	50	49	SP-A ON	H	Lo	H	SP-B ON	Lo	H	H	A,B ON	Lo	Lo	H	A,B OFF	Hi	Hi	Lo
	52	50	49																				
SP-A ON	H	Lo	H																				
SP-B ON	Lo	H	H																				
A,B ON	Lo	Lo	H																				
A,B OFF	Hi	Hi	Lo																				

Pin No.	Port Function	Logic	Function
48	R.C. RY ON/OFF output	H active	Turns ON/OFF the Tr switch for the rear, center SP RY.
48-52	Protect operation		RY for protection is not provided for this model. The following functions are performed by setting ports 58 to 62 to Lo. Muting when power ON Instantaneous shut-off when power OFF AMP DC protect AMP over loading protect
47	AC RY ON/OFF output	H active	Turns ON/OFF the Tr switch for AC power RY. Lo when stand by, H when power ON.
65	A.MUTE output	Lo active	Controls the audio system muting. Muting timing is the same as the conventional model.
67	LOUDNESS ON/OFF output	H active	Turns ON/OFF the Tr switch for LOUDNESS. “LOUDNESS” lights up on the FL display when ON. Forcibly turned OFF when DIRECT ON.
69-90 (excluding 89)	FL drive segment output Also serves as 72 to 81 KEY SCAN	Lo active	FL driver Main unit KEY SCAN output 81 is dedicated for selecting a destination.
1,2 & 91-100	FL drive grid output	Lo active	FL driver (91 is for AC-3 model only)
7	AC-3 REQ input	Lo active	Communication request from DSP IC to the main body microcomputer.
19	DEM.LOCK input	Lo active	Lo is input when the demodulator IC is locked with the AC-3 RF signal. For models not equipped with a demodulator, the port serves as an output port.
20	DIR LOCK input	Lo active	Lo is input when the DIR is locked with the digital input signal.
21	AC-3 RST output	Lo active	Resets DSP.
22	AC-3 CK output		DSP serial control clock output. Refer to the timing chart.
23	AC-3 OUT output		Data from DSP to the microcomputer. Refer to the timing chart.
24	AC-3 DT output		Outputs the DSP serial control data. Refer to the timing chart.
25	AC-3 CS output	Lo active	Outputs a chip select of the DSP serial control. Refer to the timing chart.
26	AD/DIR	H/L	DSP MASTER/SLAVE select output. When analog signal is input:MASTER should be Lo. When the digital and RF signals are input:SLAVE should be H.
27	AC-3 STOP output	H active	Stops the DSP crystal oscillation and internal PLL oscillation. Set to H only when 2ch STEREO (including DIRECT) with the front speaker is set to “LARGE”. Set to Lo when others.

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■ PM4007A (DOLBY DIGITAL ASSY : IC9071)

● Pin Function

Pin No.	Pin Name	I/O	Description	Pin No.	Pin Name	I/O	Description
1	GND	–	—	31	A7	O	FOOIN
2	VDD	–	—	32	GND	–	—
3	RESET	I	FDS2H	33	VDD	–	—
4	OSCON	I	FDS2H	34	A12	O	FOOIN
5	DATA	I	FDS2H	35	A14	O	FOOIN
6	MCK	I	FDS2H	36	WEB	O	FOO1
7	MLTB	I	FDS2H	37	A13	O	FOOIN
8	IDST	O	FOOI	38	A8	O	FOOIN
9	IDCK	O	FOOI	39	A9	O	FOOIN
10	IDO	O	FOOI	40	GND	–	—
11	TMO	I	FIDI	41	A11	O	FOOIN
12	ECCK	O	FIDI	42	OEB	O	FOOI
13	DEN	O	FIDI	43	A10	O	FOOIN
14	DRY	O	FIDI	44	DB7	B	BOW4
15	MSYC	O	FIDI	45	DB6	B	BOW4
16	TM1	I	FIDI	46	DB5	B	BOW4
17	A0	O	FOOIN	47	DB4	B	BOW4
18	A1	O	FOOIN	48	DB3	B	BOW4
19	A2	O	FOOIN	49	DB2	B	BOW4
20	A3	O	FOOIN	50	DB1	B	BOW4
21	A4	O	FOOIN	51	DB0	B	BOW4
22	A5	O	FOOIN	52	VDD	–	—
23	TM2	I	FIDI	53	GND	–	—
24	TM3	I	FIDI	54	T11	I	FIDIN
25	XOUT	O	OSB6	55	VIN	I	OSB6
26	XIN	I	OSB6	56	VOUT	O	OSB6
27	XEXT	I	FIDI	57	T12	I	FIDIN
28	GND	–	—	58	T13	I	FIDIN
29	VDD	–	—	59	TLDB	I	FIDIN
30	A6	O	FOOIN	60	TCK	I	FIDIN

Pin No.	Pin Name	I/O	Description	Pin No.	Pin Name	I/O	Description
61	TRP	O	FOOI	81	AVDD	O	AVDD *1
62	TD0	O	FOOI	82	CPIN	O	VIN *1
63	PD0	O	BOO8	83	CMIN	O	VII *1
64	T14	I	FIDIN	84	AGND	O	AGND *1
65	PDDIS	I	FIDIN	85	TM4	O	FIDI
66	MUTO	O	FOOI	86	VDD	O	—
67	T15	I	FIDIN	87	DIN	O	FIDIH
68	VLDY	O	FOOI	88	DOUT	O	FOOI
69	DASYO	O	FOOI	89	DOUTB	—	FOOI
70	DAOUT	O	FOOI	90	C9M	O	FOOIN
71	T16	I	FIDIN	91	GND	O	—
72	T17	I	FIDIN	92	WINGT	O	FOOI
73	T18	I	FIDIN	93	SYST0	O	FOOI
74	C2F1	O	FOOI	94	SYST1	O	FOOI
75	C2F0	O	FOOI	95	ADST0	O	FOOI
76	C1F1	O	FOOI	96	ADST1	O	FOOI
77	C1F0	O	FOOI	97	TM5	O	FIDI
78	MUTI	I	FIDIN	98	BUNR1	O	FIDI
79	VDD	—	—	99	AGND	O	AGND *2
80	GND	—	—	100	AVDD	O	AVDD *2

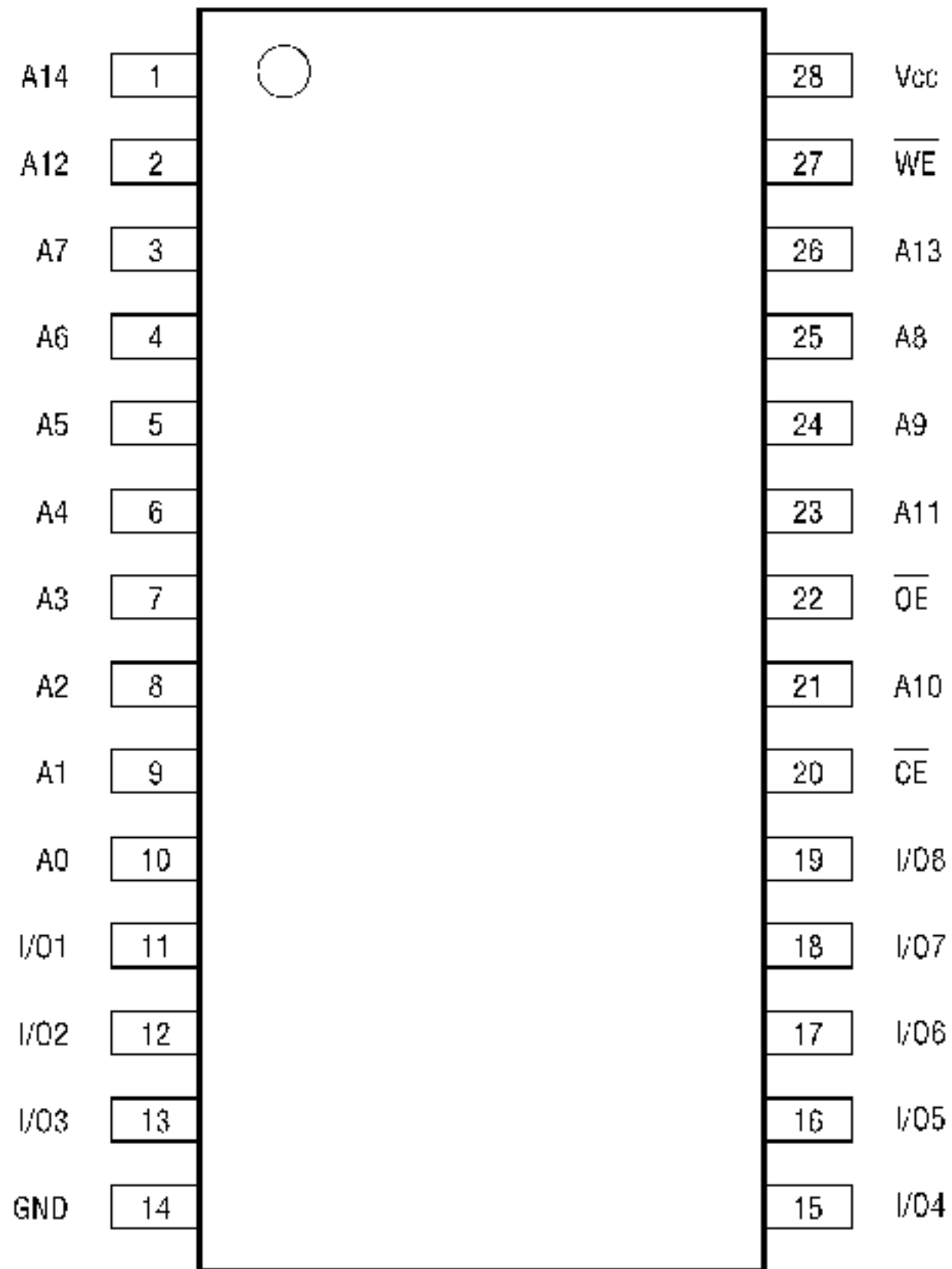
*1: Connected to a high-speed comparator (AACP25NA).

*2: Connected to a PLL macro (AAPLLMFC).

■ LH52256AN-70LL (DOLBY DIGITAL ASSY : IC9091)

● Pin Arrangement

(Top View)



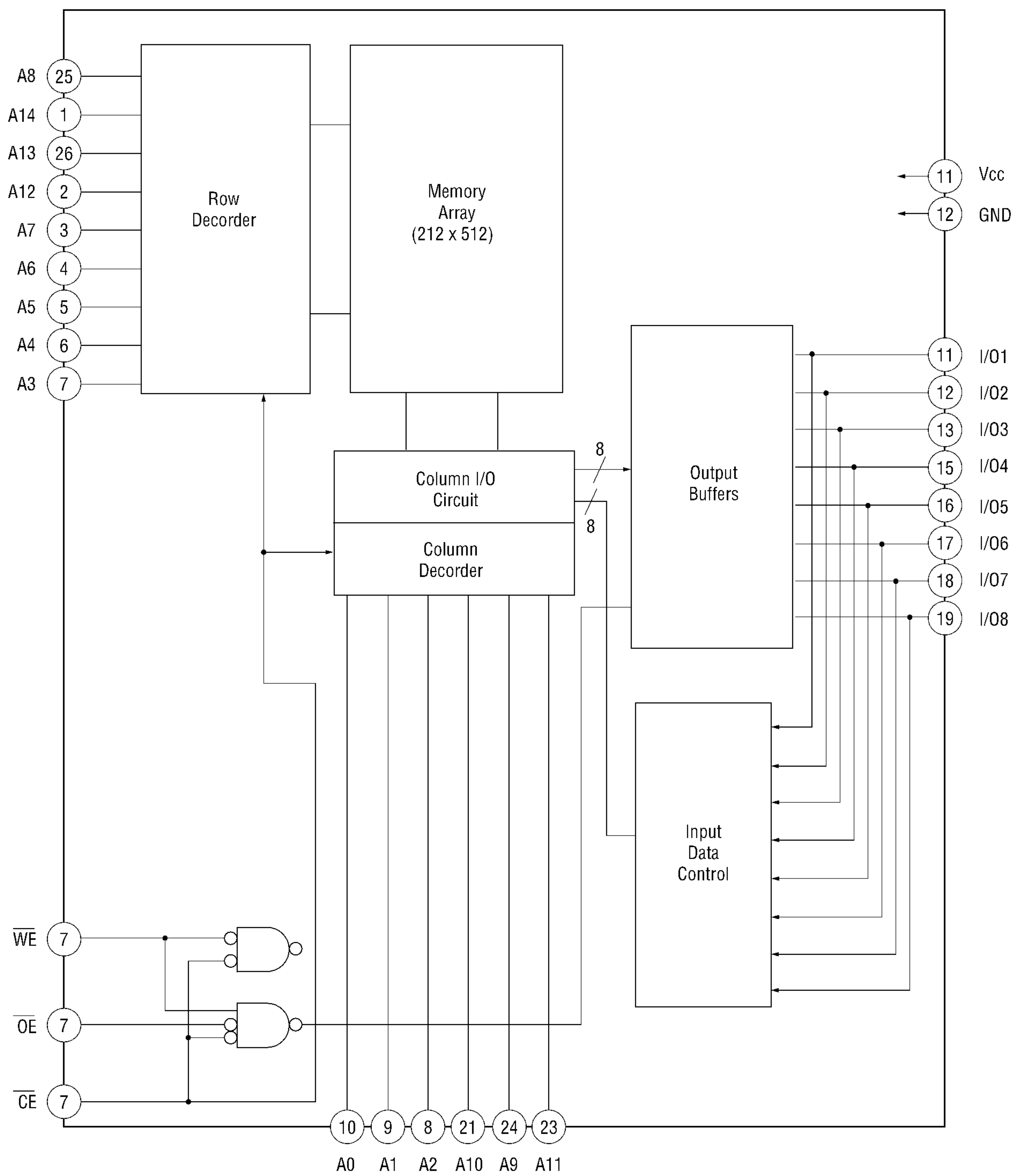
● Pin Function

Pin Name	Function
A0 to A14	Address Inputs
WE	Write Enable Input
CS	Chip Select
OE	Output Enable Input
I/O1 to I/O8	Data input/Output
Vcc	Power
Vss	Groud

● Operation Mode

CE	WE	OE	Mode	I/O1 to I/O8	Power supply current
H	*	*	Standby	High impedance	Standby(I _{SB})
L	L	*	Write	Data input	Operation(I _{cc})
L	H	L	Read	Data output	Operation(I _{cc})
L	H	H	Output disable	High impedance	Operation(I _{cc})

● Block Diagram

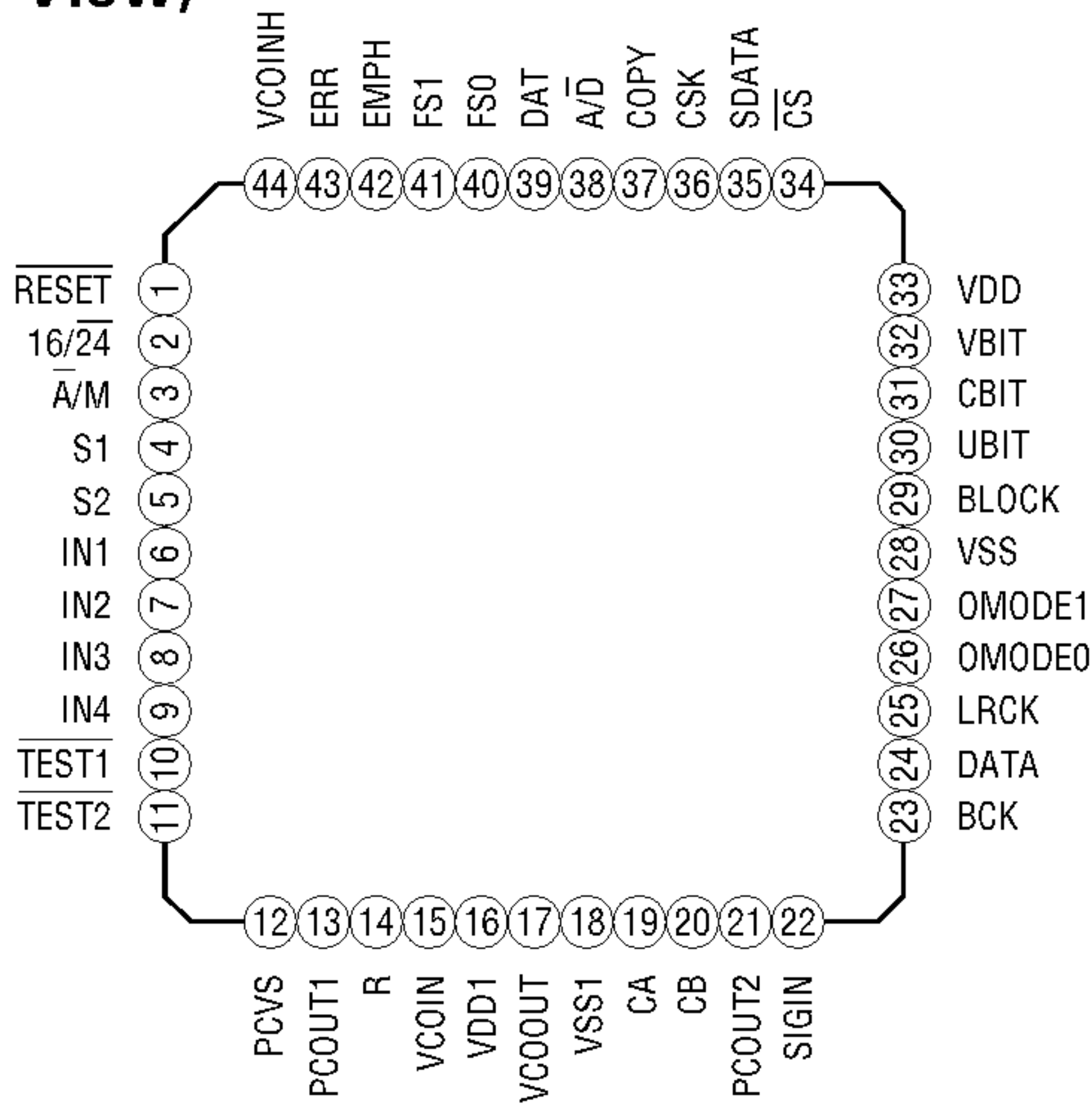


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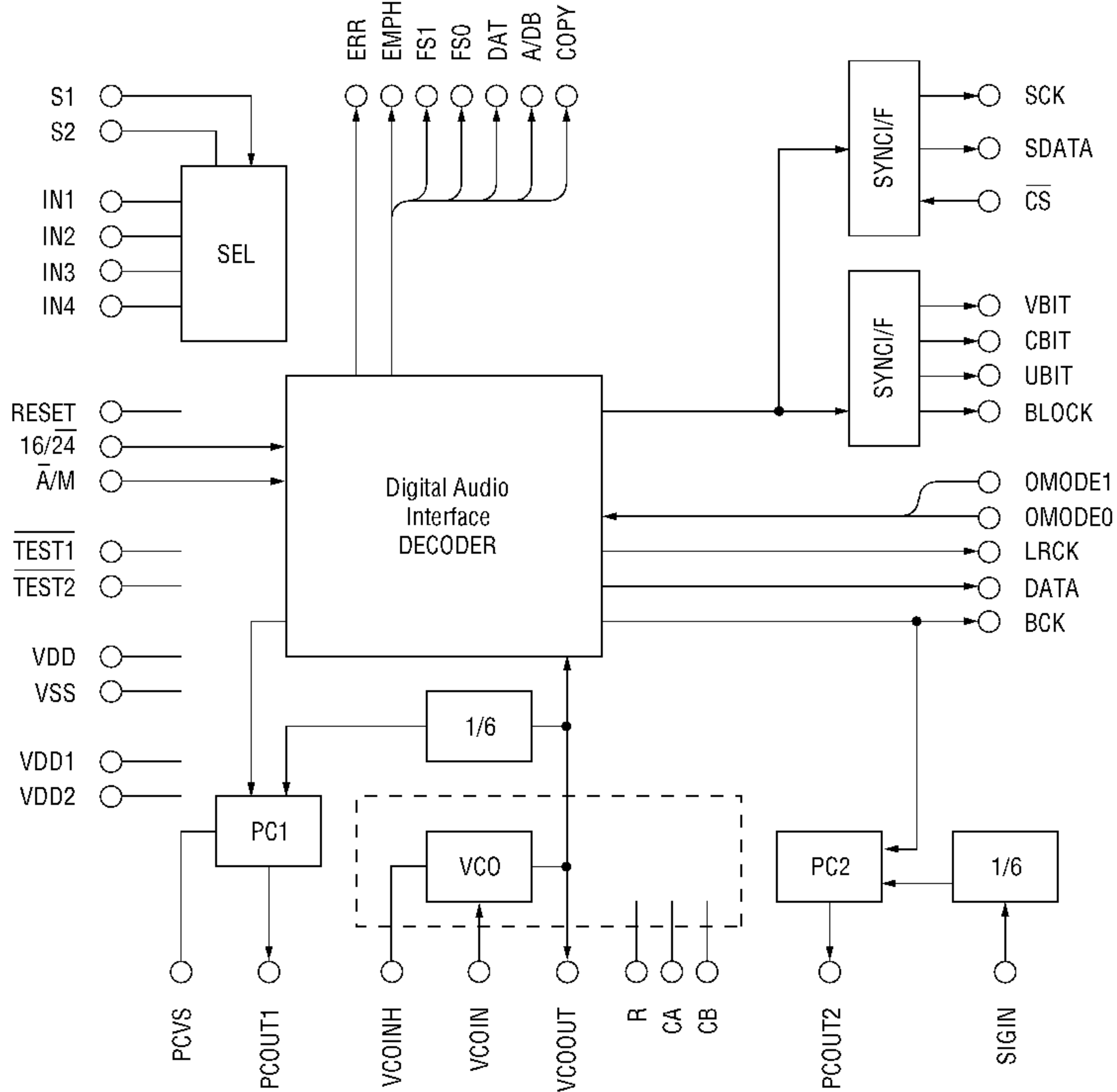
■ CD0004AF (DOLBY DIGITAL ASSY : IC9121)

● Pin Arrangement

(Top View)



● Block Diagram



● Pin Function

Pin No.	Pin Name	I/O	Description
1	RESET	IS	Power ON reset input. "L":Reset.
2	16/24	IT	Input format selection. With pull-up resister.
3	A/M	IT	Input format selection. With pull-up resister.
4	S1	IT	Input selection 1
5	S2	IT	Input selection 2
6	IN1	IT	Data input 1
7	IN2	IT	Data input 2
8	IN3	IT	Data input 3
9	IN4	IT	Data input 4
10	TEST1	IT	Test pin 1. Normally "H" or open. With pull-up resister.
11	TEST2	IT	Test pin 2. Normally "H" or open. With pull-up resister.
12	PCVS	–	VCO free-running frequency setting input
13	PCOUT1	–	Phase comparator output 1
14	R	–	Connected to the VCO adjusting resistor.
15	VCOIN	–	VCO control voltage input
16	VDD1	–	VCO power supply
17	VCOOUT	–	VCO output (384 fs)
18	VSS1	–	VCO GND
19	CA	–	VCO adjusting capacity connection
20	CB	–	VCO adjusting capacity connection
21	PCOUT2	–	Phase comparator output 2
22	SIGIN	IT	External VCO input

Pin No.	Pin Name	I/O	Description
23	BCK	O	Demodulation data bit clock output (64 fs)
24	DATA	O	Demodulation audio data output
25	LRCK	O	Demodulation data LR clock output. "H":L channel.
26	OMODE0	O	Data output format selection 0.
27	OMODE1	O	Data output format selection 1.
28	VSS	–	Logic GND
29	BLOCK	O	Block start output
30	UBIT	O	User data output
31	CBIT	O	Channel status output
32	VBIT	O	Validity output
33	VDD	–	Logic power supply
34	$\overline{\text{CS}}$	IT	Chip select input. "L":Selected.
35	SDATA	OT	Serial data output
36	SCK	IT	Serial clock input
37	COPY	O	Copy prohibition information output
38	$\text{A}/\overline{\text{D}}$	O	Audio/digital data information output
39	DAT	O	DAT information output
40	FS0	O	Sampling frequency information output 0
41	FS1	O	Sampling frequency information output 1
42	EMPH	O	Emphasis information output
43	ERR	O	Data reading error output. "H":Error occurred.
44	VCOINH	IT	Internal VCO oscillation stop input. "H":Stops.

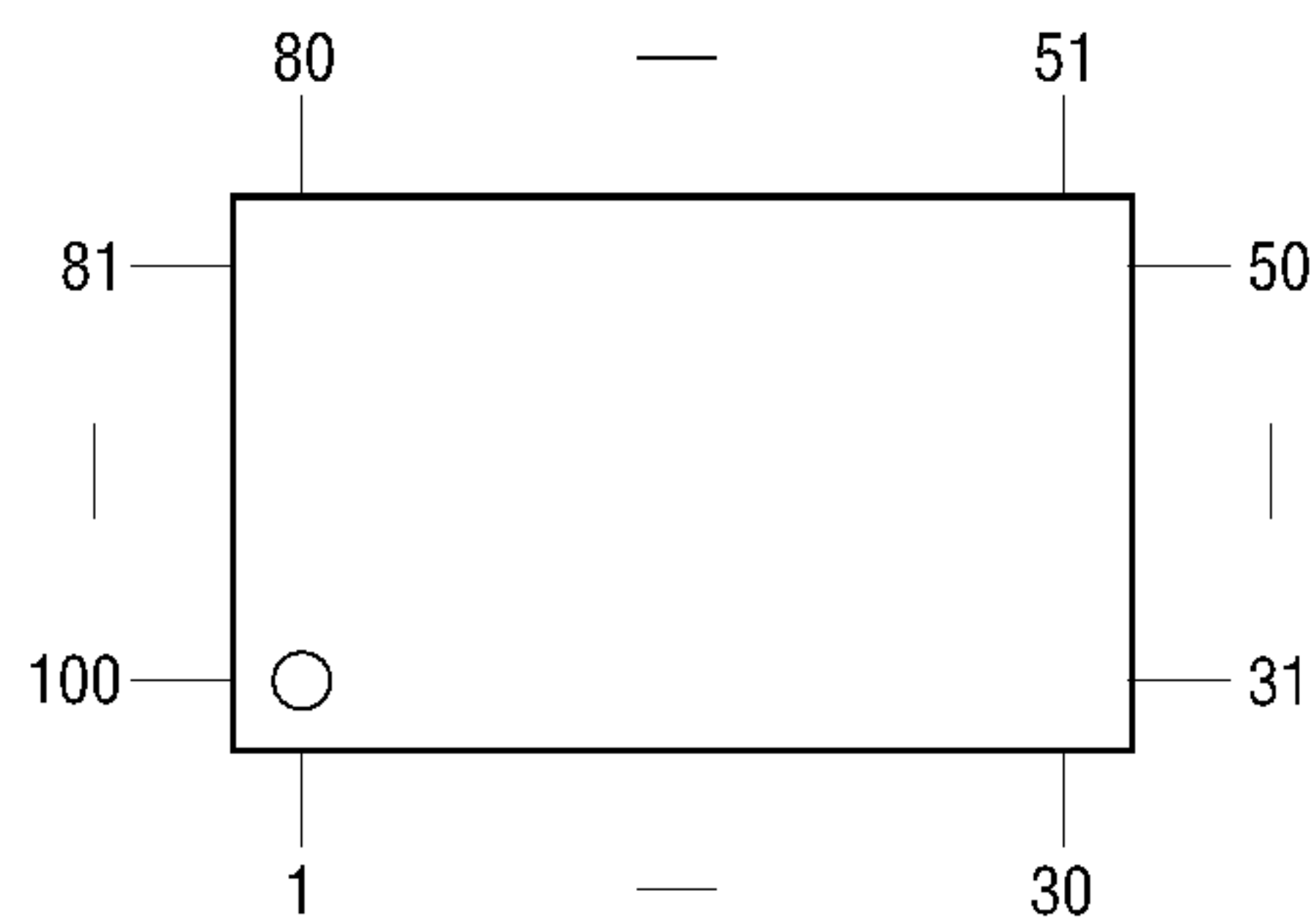
IS : Schmidt level input
IT : TTL level input
O : CMOS level output
OT : CMOS level tri-state output

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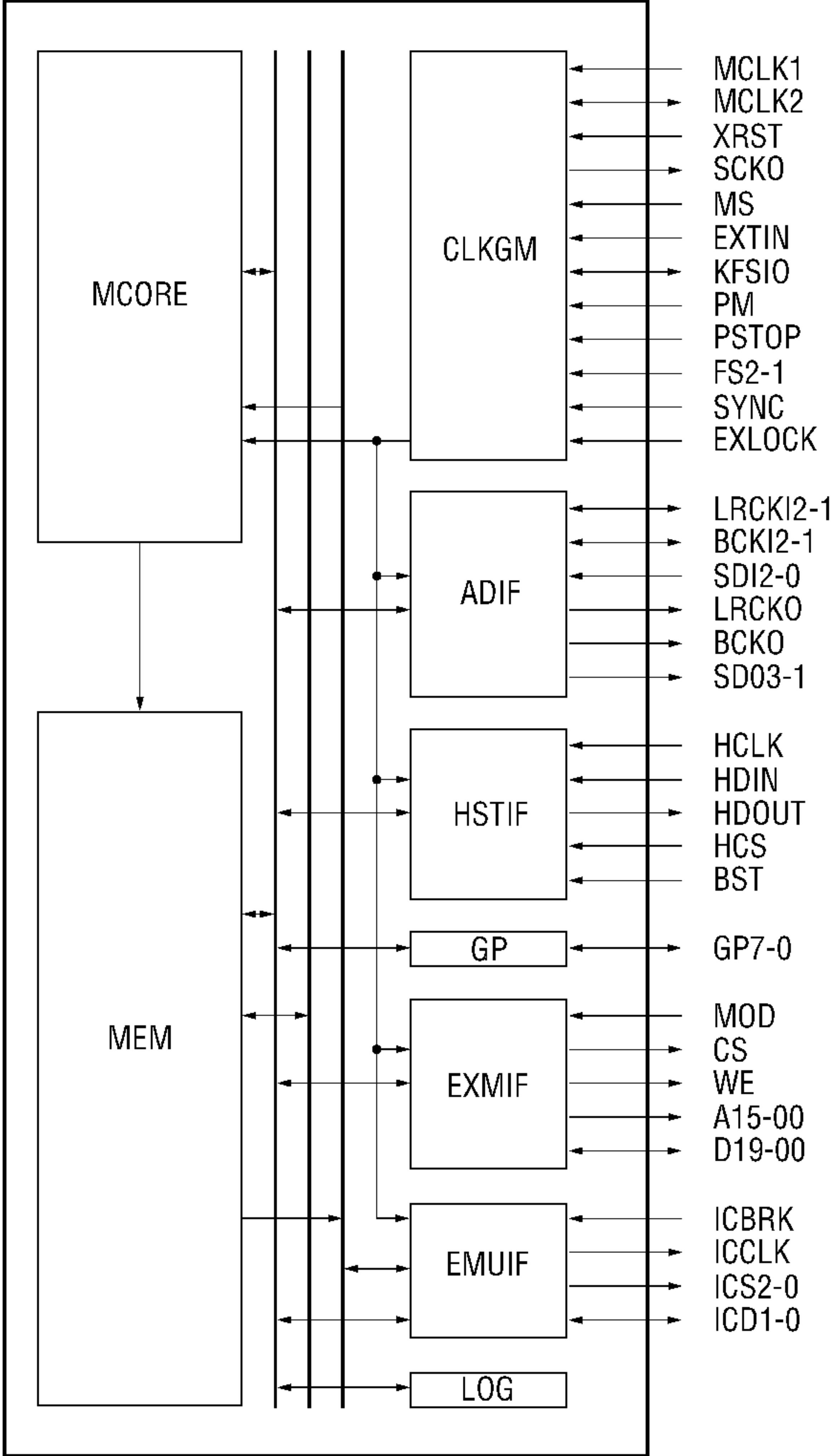
■ MB86342A (DOLBY DIGITAL ASSY : IC9301)

● Pin Arrangement

(Top View)



● Block Diagram



● Pin Function

No.	Pin Name	I/O	Description
1	XRST	I	DSP reset signal input
2	EXTIN	I	System clock signal input (384 fs)
3	VDD	Power	—
4	VSS	GND	—
5	MCLK1	I	DSP core clock oscillation input
6	MCLK2	I/O	DSP core clock oscillation input/output
7	KFSIO	I/O	Audio system clock input/output (384 fs)
8	SCKO	O	DSP core system clock signal output
9	PM	I	Test pin (Normally, clipped to GND.)
10	PSTOP	I	PLL internal oscillation and crystal oscillation termination setting signal input
11	EXLOCK	I	EXTIN lock signal input
12	MS	I	MUCAP master/slave operation switching signal input
13	FS1	I	Sampling frequency switching
14	FS2	I	
15	VSS	GND	—

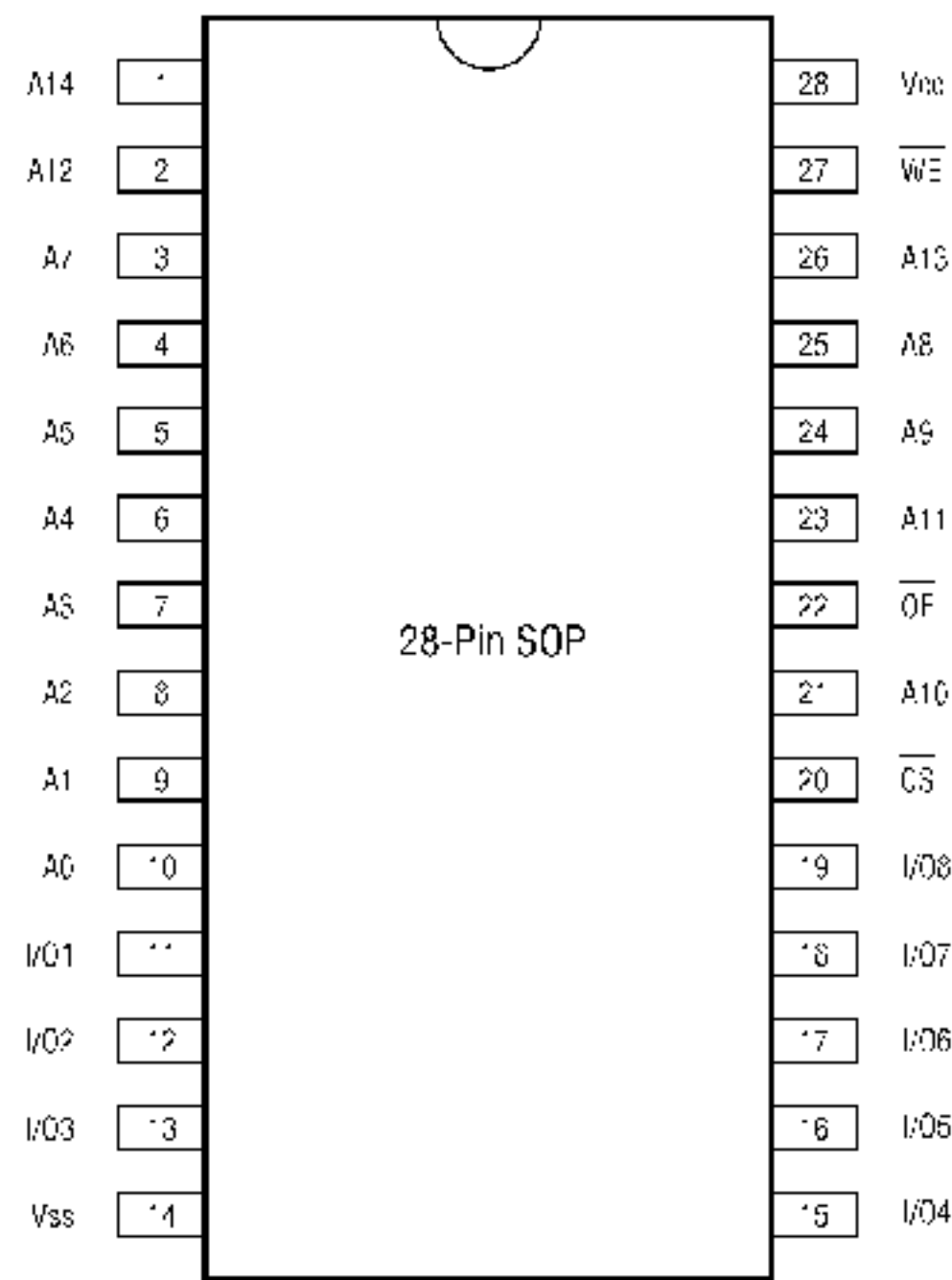
No.	Pin Name	I/O	Description
16	SYNC	I	MUCAP sync/async operation switching signal input
17	LRCKI1	I/O	Serial data input rate clock signal input/output for the audio interface
18	BCKI1	I/O	Serial data input clock signal input/output for the audio interface
19	SDI1	I	Serial data signal input for the audio interface
20	LRCKI2	I	Serial data input rate clock signal input for the audio interface
21	BCKI2	I	Serial data input clock signal for the audio interface
22	SDI2	I	Serial data signal input for the audio interface
23	LRCK0	O	Serial data output clock signal output for the audio interface
24	BCK0	O	Serial data output rate clock signal output for the audio interface
25	SDO1	O	Serial data signal output for the audio interface
26	SDO2	O	
27	SDO3	O	
28	VDD	Power	—
29	VSS	GND	—
30	GP7	I/O	8-bit general port data signal input/output
31	GP6	I/O	
32	GP5	I/O	
33	VDD	Power	—
34	VSS	GND	—
35	GP4	I/O	8-bit general port data signal input/output
36	GP3	I/O	
37	GP2	I/O	
38	GP1	I/O	
39	GP0	I/O	
40	VSS	GND	—
41	HCLK	I	Serial data signal input/output clock signal input/output for the host interface
42	HCS	I	Chip select signal input for the host interface
43	HDIN	I	Serial data signal input for the host interface
44	HDOUT	O	Serial data signal output for the host interface
45	BST	I	Bootstrap operation mode setting signal input
46	MOD	I	MUCAP bus mode operation setting signal input
47	CS	O	External SRAM interface chip select signal output
48	WE	O	External SRAM interface write enable signal output
49	A15	O	External SRAM interface address signal output
50	A14	O	
51	A13	O	
52	A12	O	
53	VDD	Power	—
54	VSS	GND	—
55	A11	O	External SRAM interface address signal output
56	A10	O	
57	A09	O	

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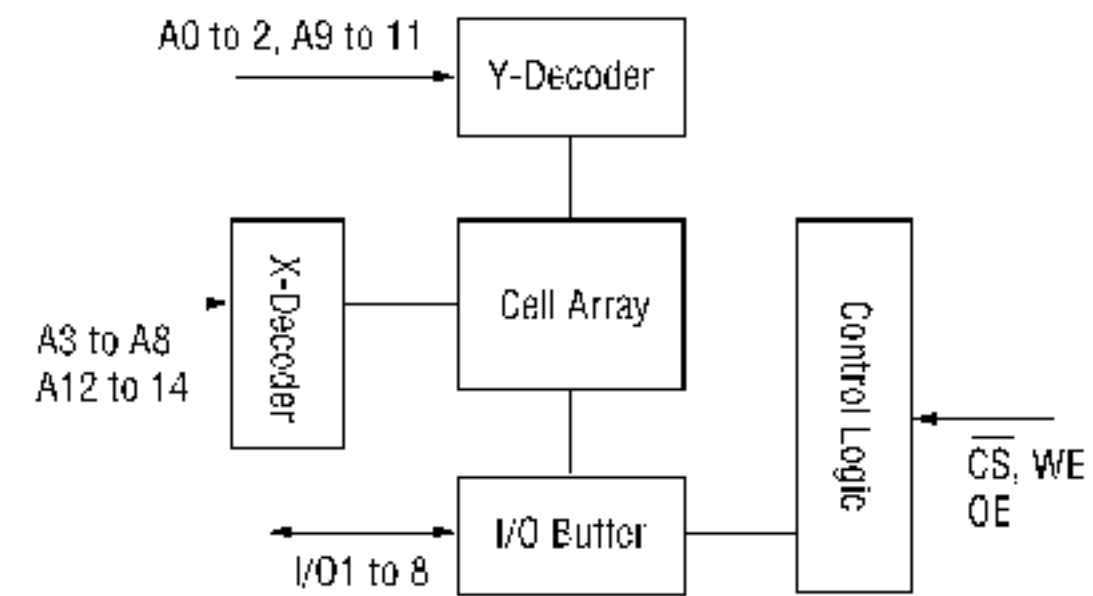
No.	Pin Name	I/O	Description
58	A08	O	External SRAM interface address signal output
59	A07	O	
60	A06	O	
61	A05	O	
62	A04	O	
63	A03	O	
64	A02	O	
65	VSS	GND	—
66	A01	O	External SRAM interface address signal output
67	A00	O	
68	D19	I/O	External SRAM interface data signal input/output
69	D18	I/O	
70	D17	I/O	
71	D16	I/O	
72	D15	I/O	
73	D14	I/O	
74	D13	I/O	
75	D12	I/O	
76	D11	I/O	
77	D10	I/O	
78	VDD	Power	—
79	VSS	GND	—
80	D09	I/O	External SRAM interface data signal input/output
81	D08	I/O	
82	D07	I/O	
83	VDD	Power	—
84	VSS	GND	—
85	D06	I/O	External SRAM interface data signal input/output
86	D05	I/O	
87	D04	I/O	
88	D03	I/O	
89	D02	I/O	
90	VSS	GND	—
91	D01	I/O	External SRAM interface data signal input/output
92	D00	I/O	
93	ICCLK	O	Emulator clock signal output
94	ICBRK	I	Emulator external break signal input
95	ICD1	I/O	Emulator address/data signal input/output
96	ICD0	I/O	
97	ICS2	O	Emulator status signal output
98	ICS1	O	
99	ICS0	O	
100	VSS	GND	—

■ KM62V256CLG-7L (DOLBY DIGITAL ASSY : IC9361)

● Pin Arrangement
(Top View)



● Block Diagram

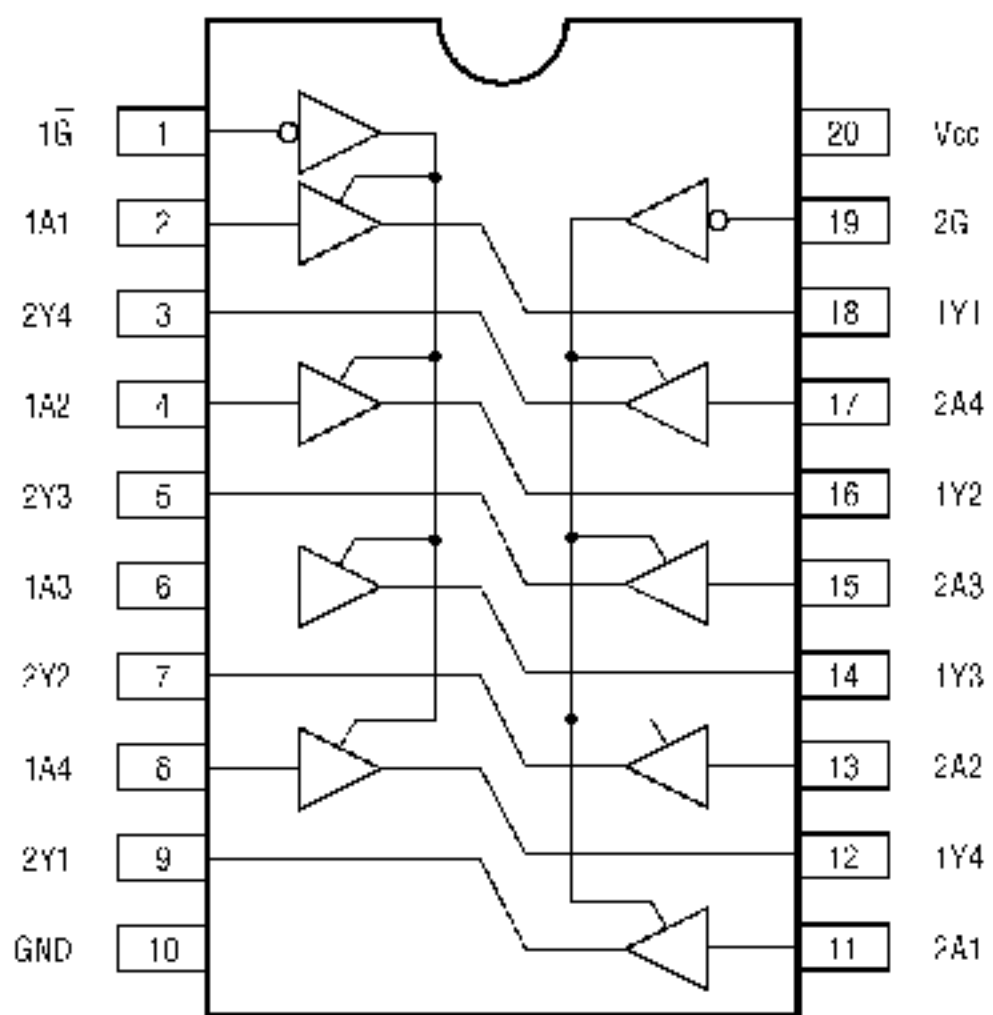


● Pin Function

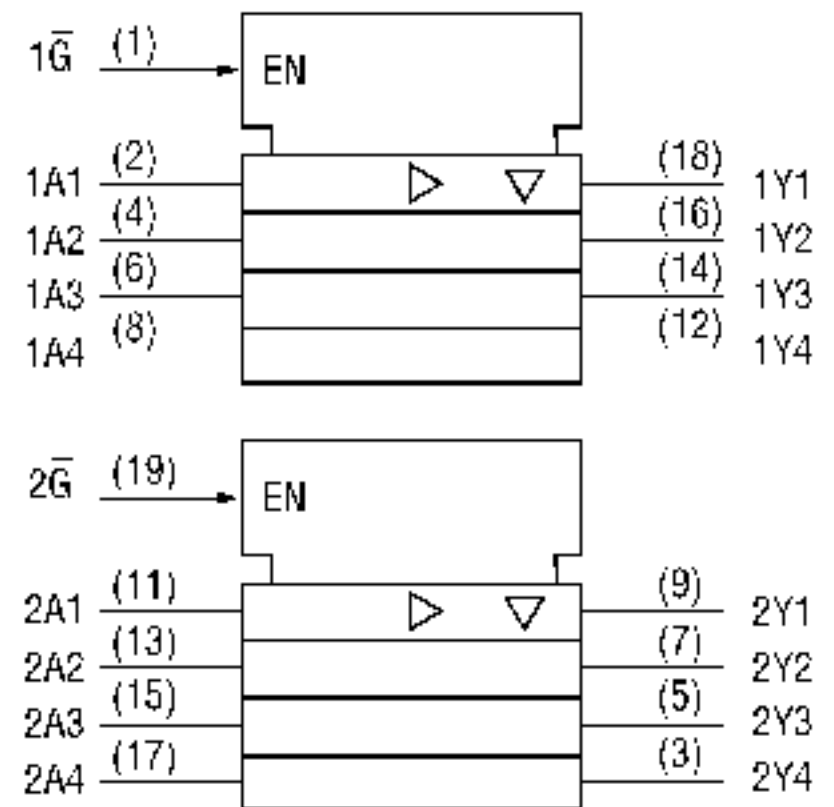
Pin Name	Function
A0 to A14	Address Inputs
WE	Write Enable Input
CS	Chip Select
OE	Output Enable Input
I/O1 to I/O8	Data input/Output
Vcc	Power
Vss	Groud

■ TC74HCT244AF (DOLBY DIGITAL ASSY : IC9371)

● Pin Arrangement
(Top View)

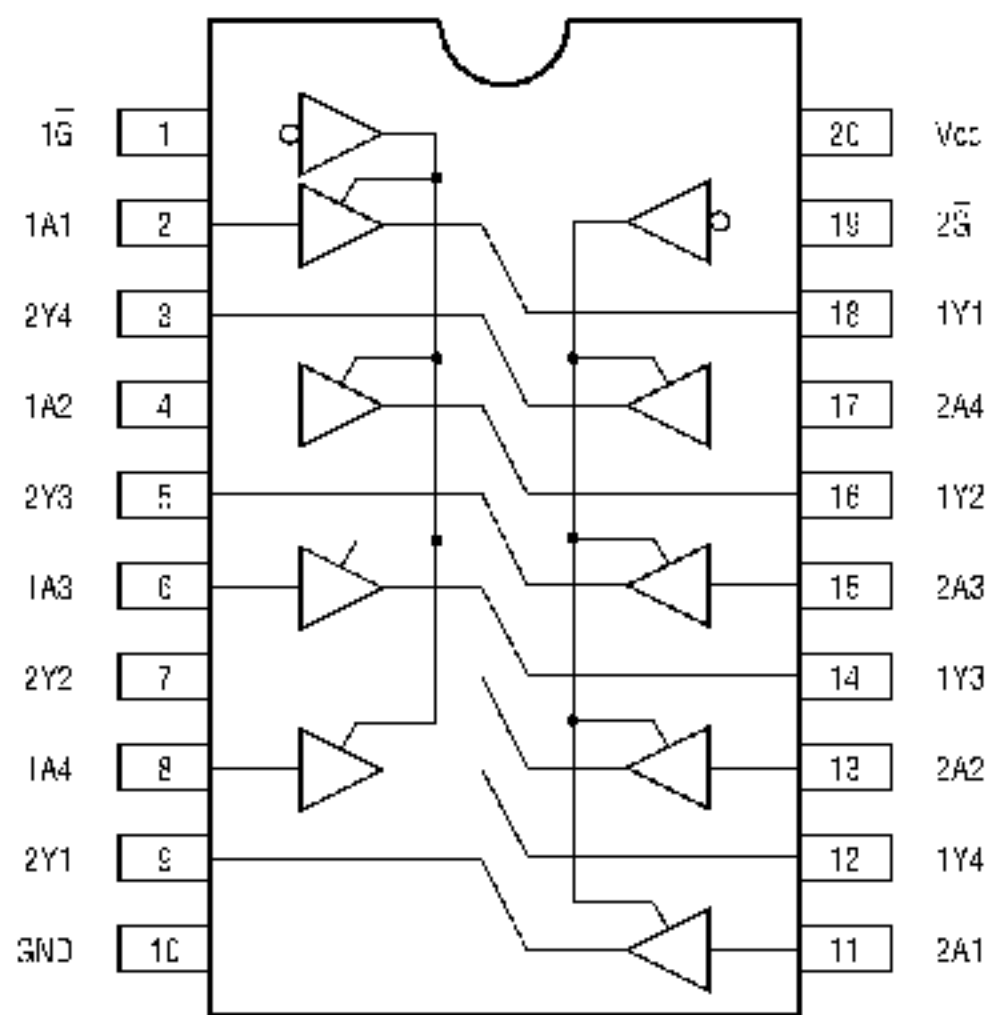


● Block Diagram

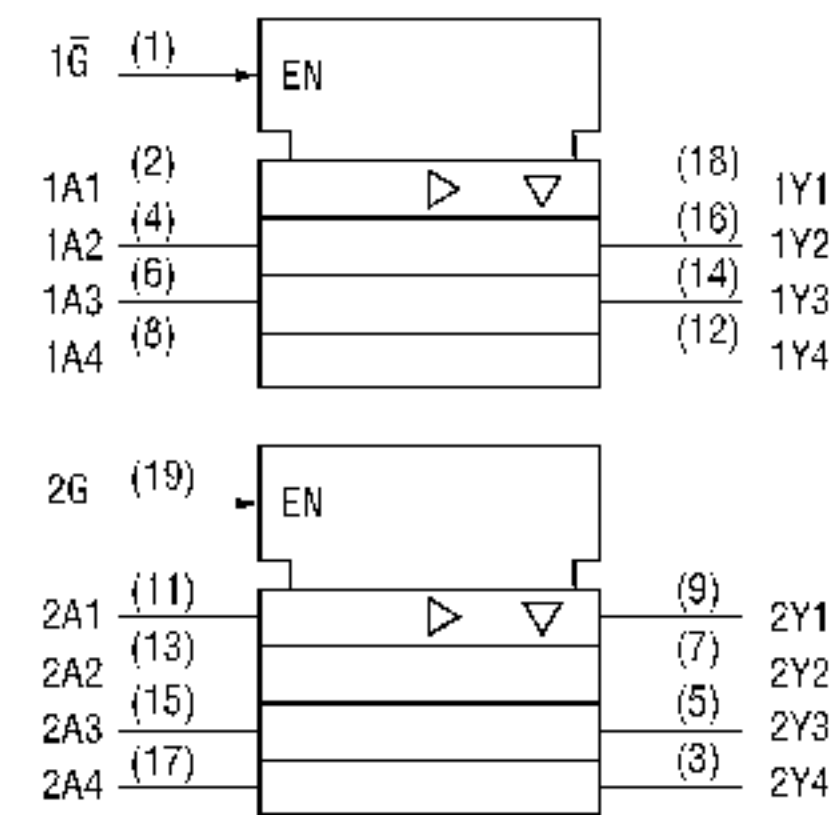


■ TC74LVX244FS (DOLBY DIGITAL ASSY : IC9381)

● Pin Arrangement
(Top View)



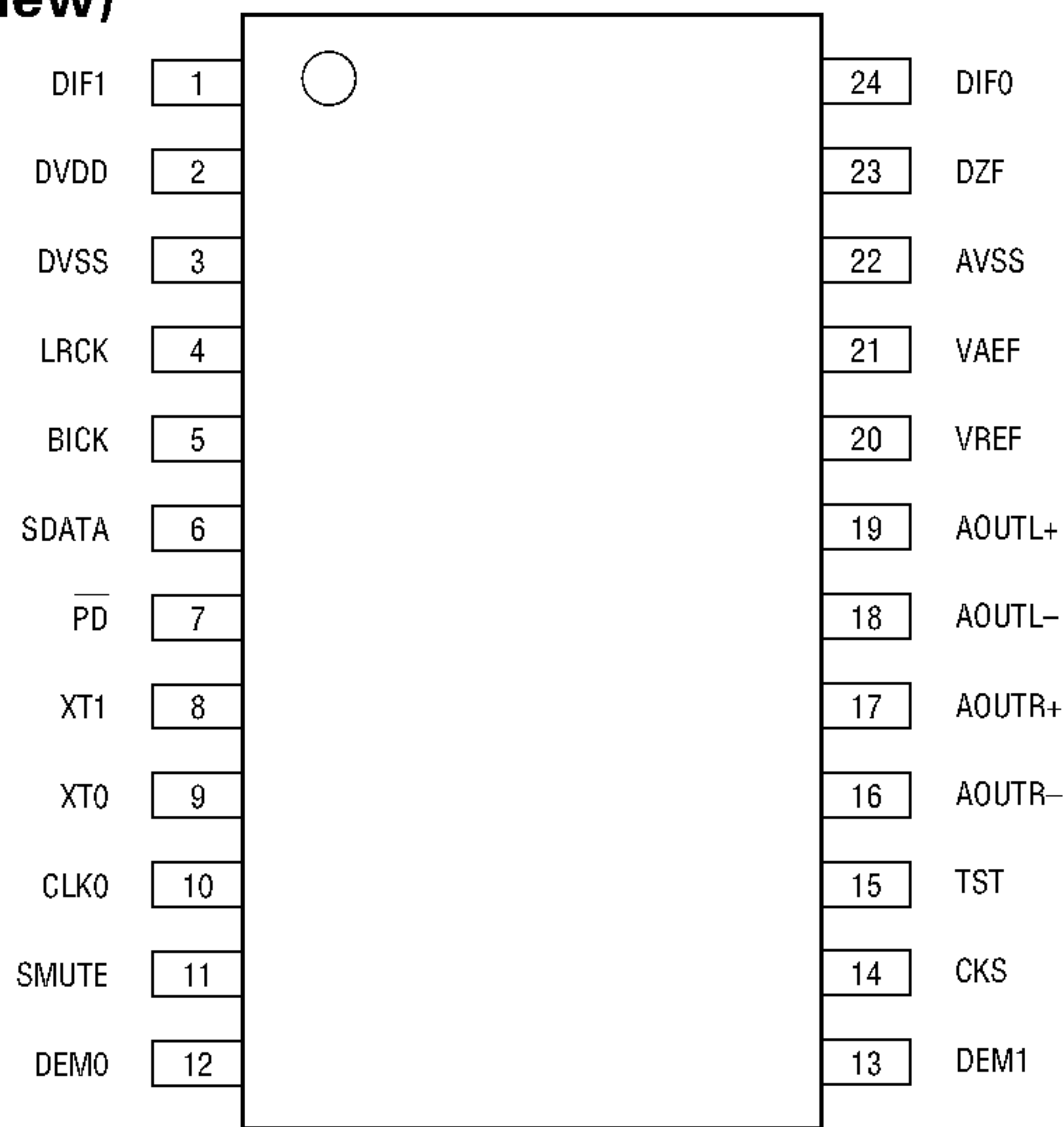
● Block Diagram



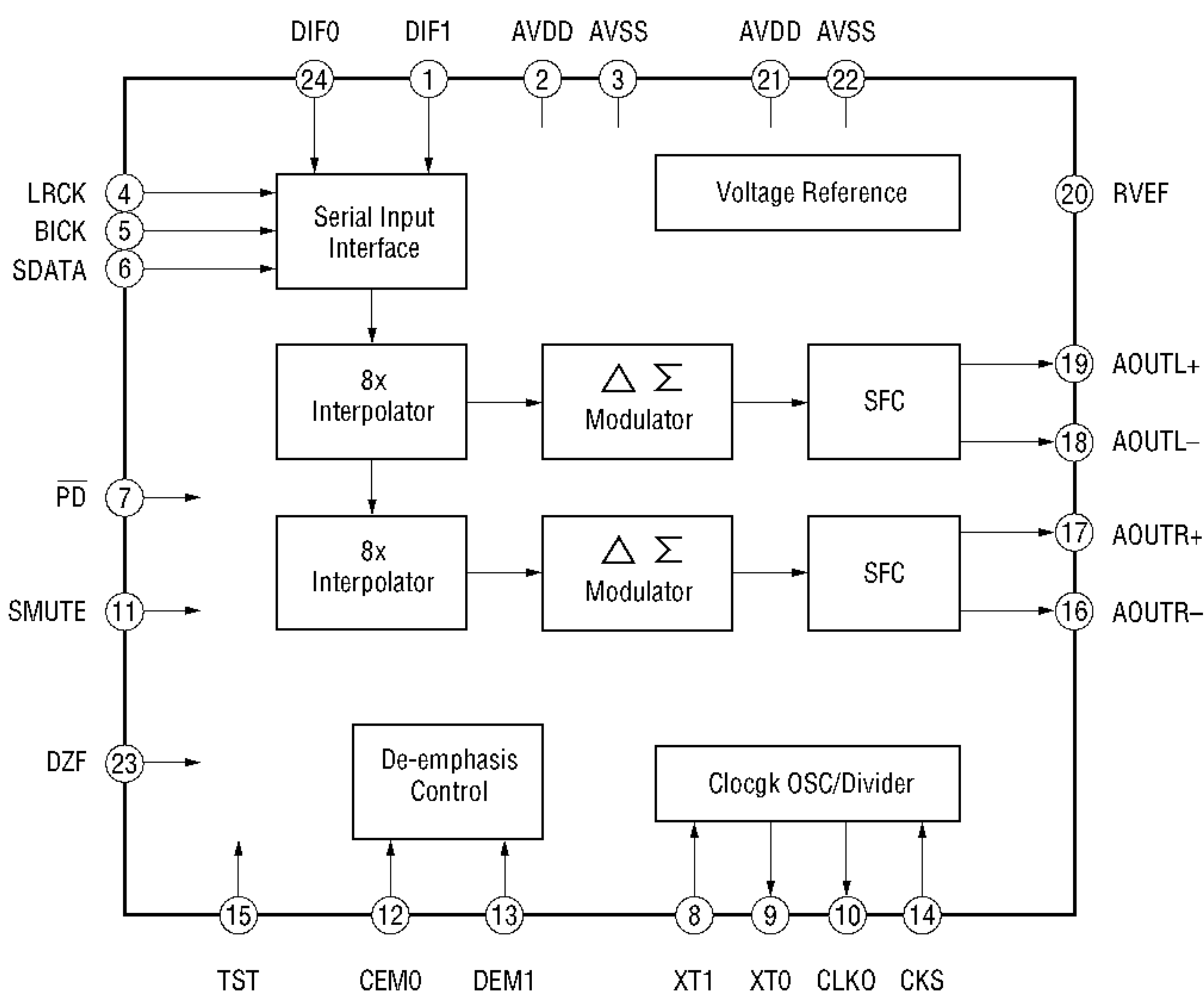
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■ AK4319-VM (DOLBY DIGITAL ASSY : IC9401, IC9431, IC9461)

● Pin Arrangement
(Top View)



● Block Diagram

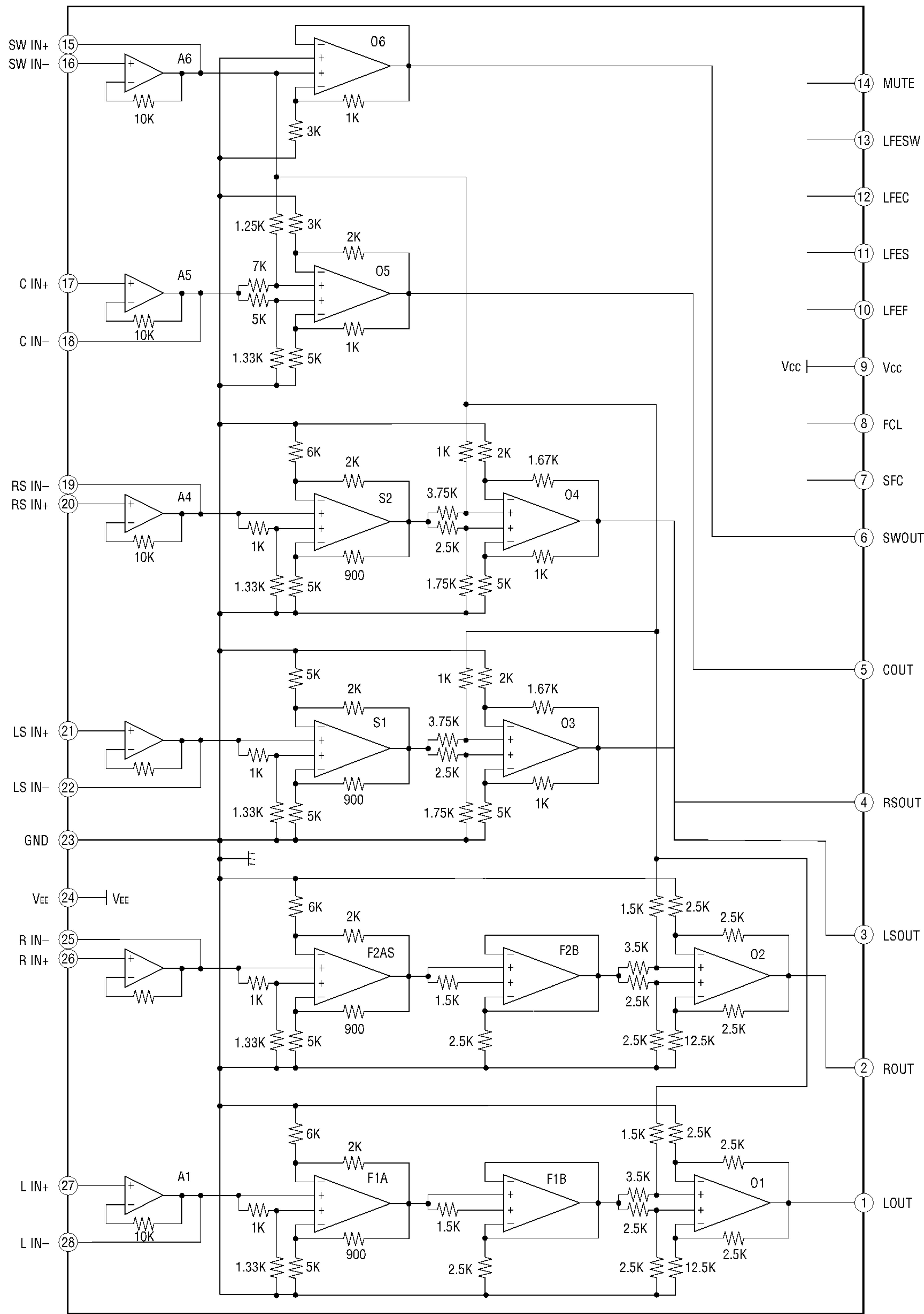


● Pin Function

Pin No.	Pin Name	I/O	Description
1	DIF1	I	Input format (pull-down pin). Compatible with 4 modes.
2	DVDD	–	Digital power supply, +5V
3	DVSS	–	Digital GND
4	LRCK	I	L/R clock. Determines the channel of serial data to be input.
5	BICK	I	Serial bit clock. Clock for latching the serial data.
6	SDATA	I	Serial data input pin. 2’s compliment, MSB first.
7	PD	I	Reset pin. When this pin becomes “L”, the filter and modulator are reset. When turning on the power, input “L” to reset.
8	XTI	I	Clock input. Connect a crystal oscillator between this pin and XT0 pin, or input an external CMOS clock to XT1. Clock frequencies can be selected with CKS pin.
9	XTO	I	Crystal oscillator output pin. When using a crystal oscillator, connect it to XT1. When using an external clock, does not use this pin.
10	CLKO	O	Oscillator clock output. Outputs XT1 clock with inverted.
11	SMUTE	O	Software muting pin (pull-down pin).When “H”, a software muting starts. When “L”, it is canceled.
12	DEMO	I	De-emphasize mode. Compatible with three frequencies.
13	DEM1	I	Clock select pin (pull-down pin). “L”:CLK=256 fs, “H”:CLK=384 fs.
14	CKS	I	Test pin (pull-down pin). Set to Open or “L”.
15	TST	I	Rch analog negative output pin
16	AOUTR–	O	Rch analog positive output pin
17	AOUTR+	O	Lch analog negative output pin
18	AOUTR–	O	Lch analog positive output pin
19	AOUTR+	O	Reference voltage output pin, 2.95V (GND reference).
20	VREF	O	Connect a 10μF electrolytic capacitor and 0.1μF ceramic capacitor to AVSS.
21	AVDD	–	Analog power supply pin, +5V
22	AVSS	–	Analog GND
23	DZF	O	Zero input detection. Becomes “H” if no data is input to SDATA pin for 8192 times continuously for both channels.
24	DIF0	I	Input format (pull-down pin). Compatible with 4 modes.

■ PA4025A (DOLBY DIGITAL ASSY : IC9501)

● Block Diagram



VSX-D736S

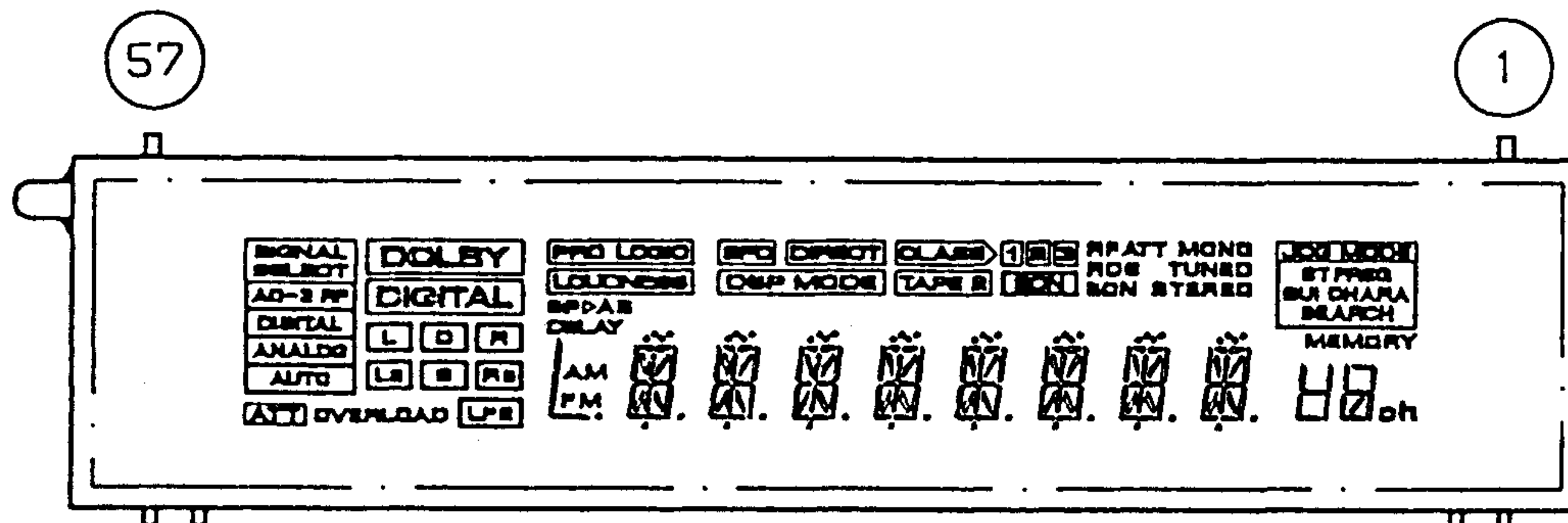
● Pin Function

Pin No.	Pin Name	Description	Pin No.	Pin Name	Description
1	LOUT	Lch output	15	GND	SWch (–) input
2	ROUT	Rch output	16	WINGT	SWch (+) input
3	LSOUT	LSch output	17	SYST0	Cch (+) input
4	RSOUT	RSch output	18	SYST1	Cch (–) input
5	COUT	Cch output	19	ADST0	RSch (–) input
6	SWOUT	SWch output	20	ADST1	RSch (+) input
7	SFC	Gain control (SFC) input	21	TM5	LSch (+) input
8	FCL	Gain control (FCL) input	22	BUNR1	LSch (–) input
9	VCC	VCC	23	AGND	GND
10	LFEF	Gain control (LFEF) input	24	AVDD	VEE
11	LFES	Gain control (LFES) input	25	R IN–	R ch (–) input
12	LFEC	Gain control (LFEC) input	26	R IN+	R ch (+) input
13	LFESW	Gain control (LFESW) input	27	L IN+	L ch (+) input
14	MUTE	Mute input	28	L IN–	L ch (–) input

7.1.2 DISPLAY

■ AAV7034 (V901 : FL/U-COM ASSY)

- **FL Tube**

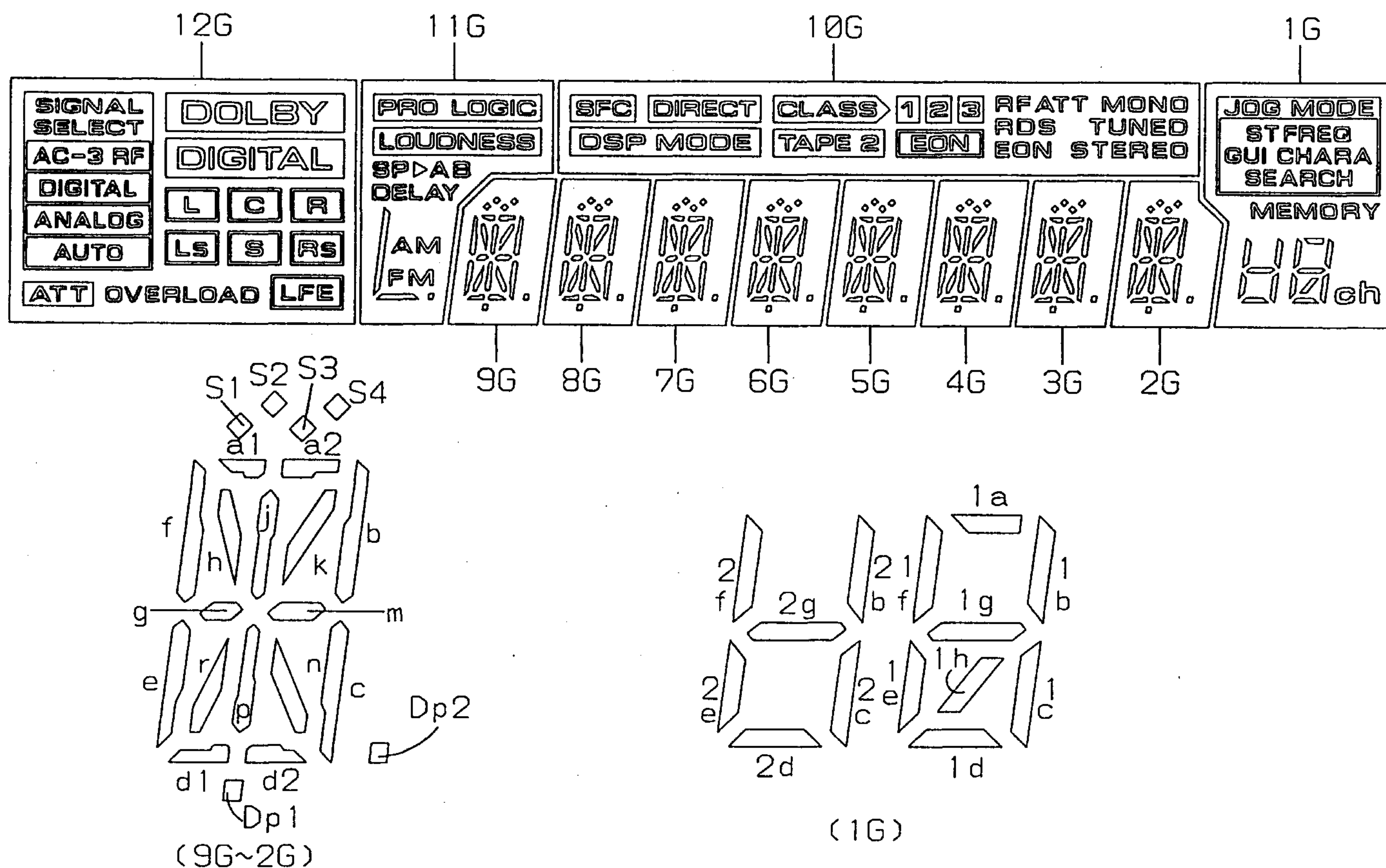


- **Pin Assignment**

[illegible]

NOTE	1)	F1,F2	---	Filament
	2)	NP	-----	No pin
	3)	NX	-----	No extend pin
	4)	DL	-----	Datum Line
	5)	1G~12G	---	Grid

- **Grid Assignment**



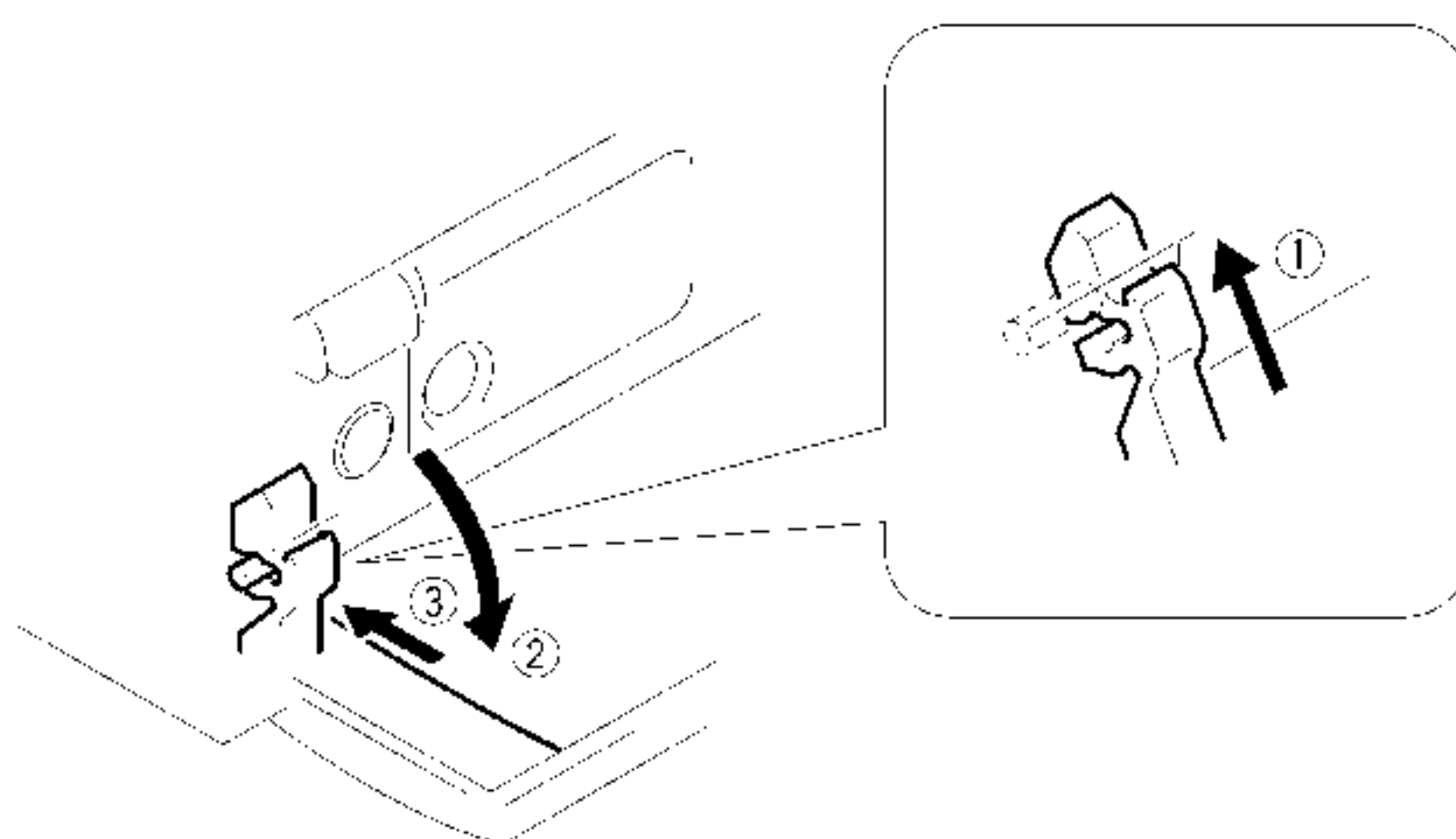
VSX-D736S

● Anode Connection

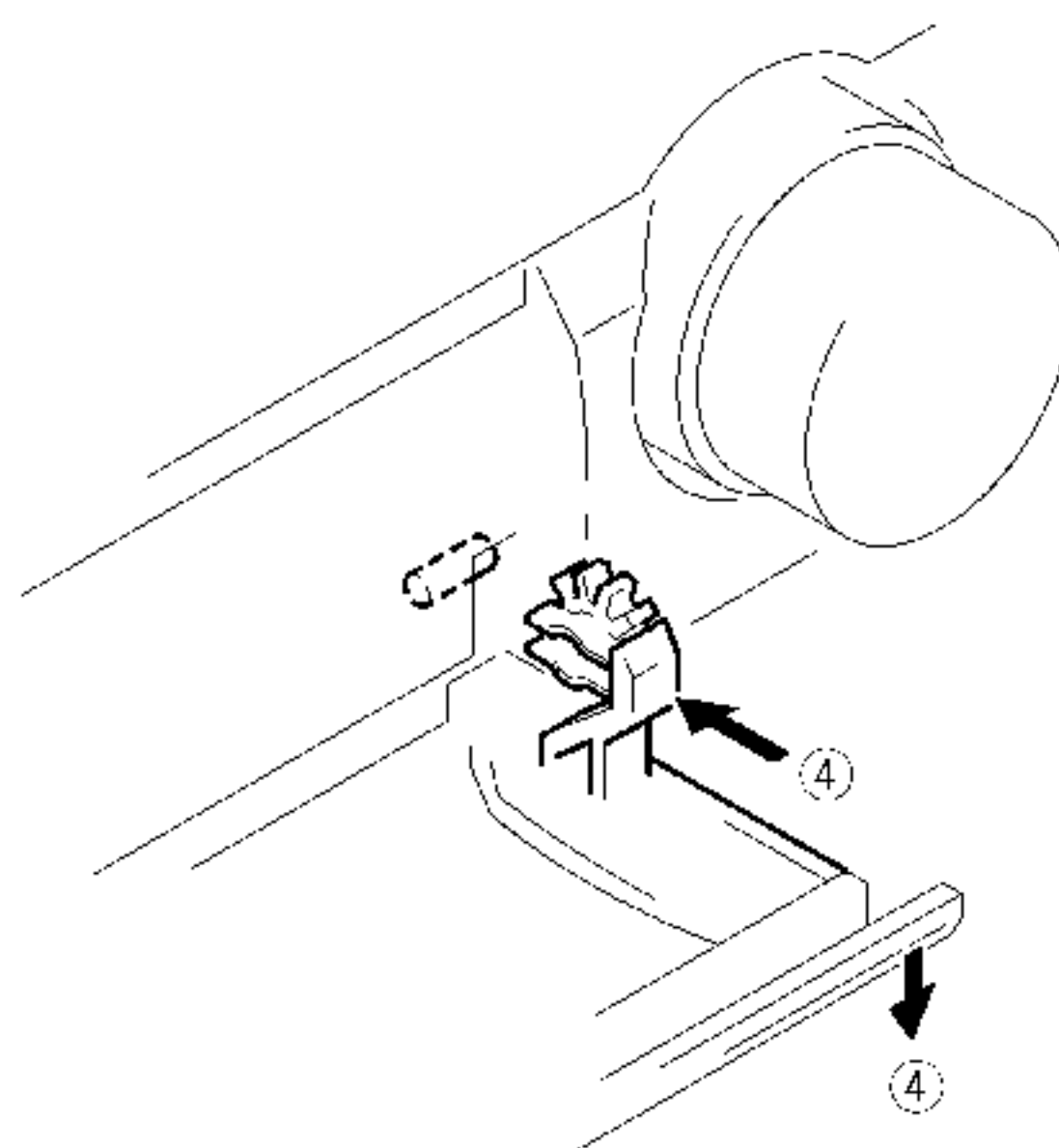
	12G	11G	10G	9G~2G	1G
P1	DOLBY		MONO	a1	2b, 2c
P2	DIGITAL	•	TUNED	a2	2g
P3	R	FM	STEREO	h	2d
P4	LS RS	AM	RFATT	j	2e
P5	(Ls) (Rs)	DELAY	RDS	k	2f
P6	LFE	B	EON	b	1a
P7	(LFE)	A	3	f	1b
P8	C	SP▷	2	m	1f
P9	(C)	LOUDNESS	1	g	1g
P10	S	PRO LOGIC	EON	c	1c
P11	L	-	CLASS	e	1h
P12	(L)	-	TAPE 2	r	1e
P13	OVERLOAD	-	DIRECT	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	

7.2 INSTALLING THE DOOR PANEL

- ① Insert the door panel at an angle.
- ② Rotate the panel downward until level.
- ③ Push the panel straight in.

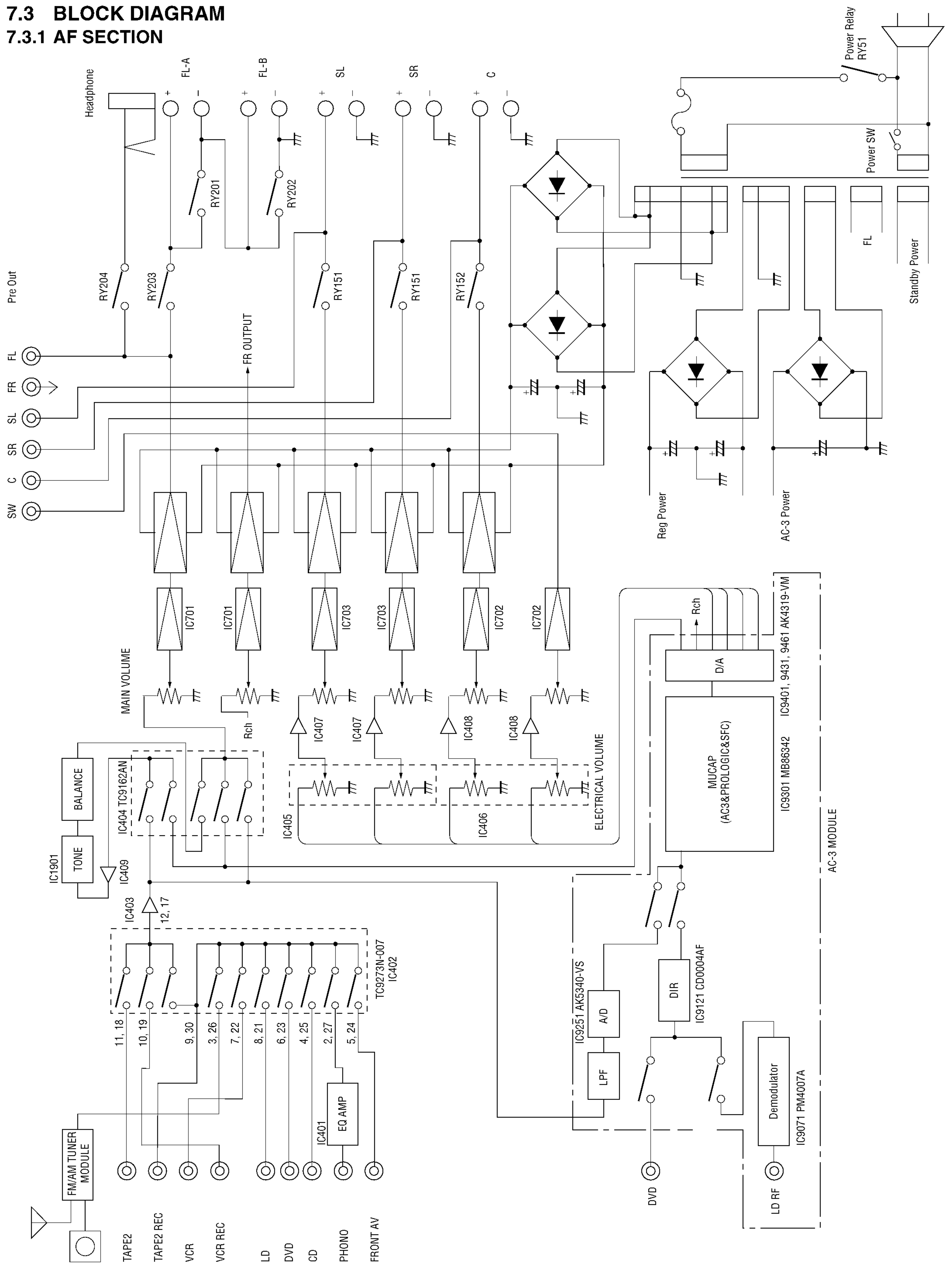


- ④ While slightly pressing downward, push the door panel in.



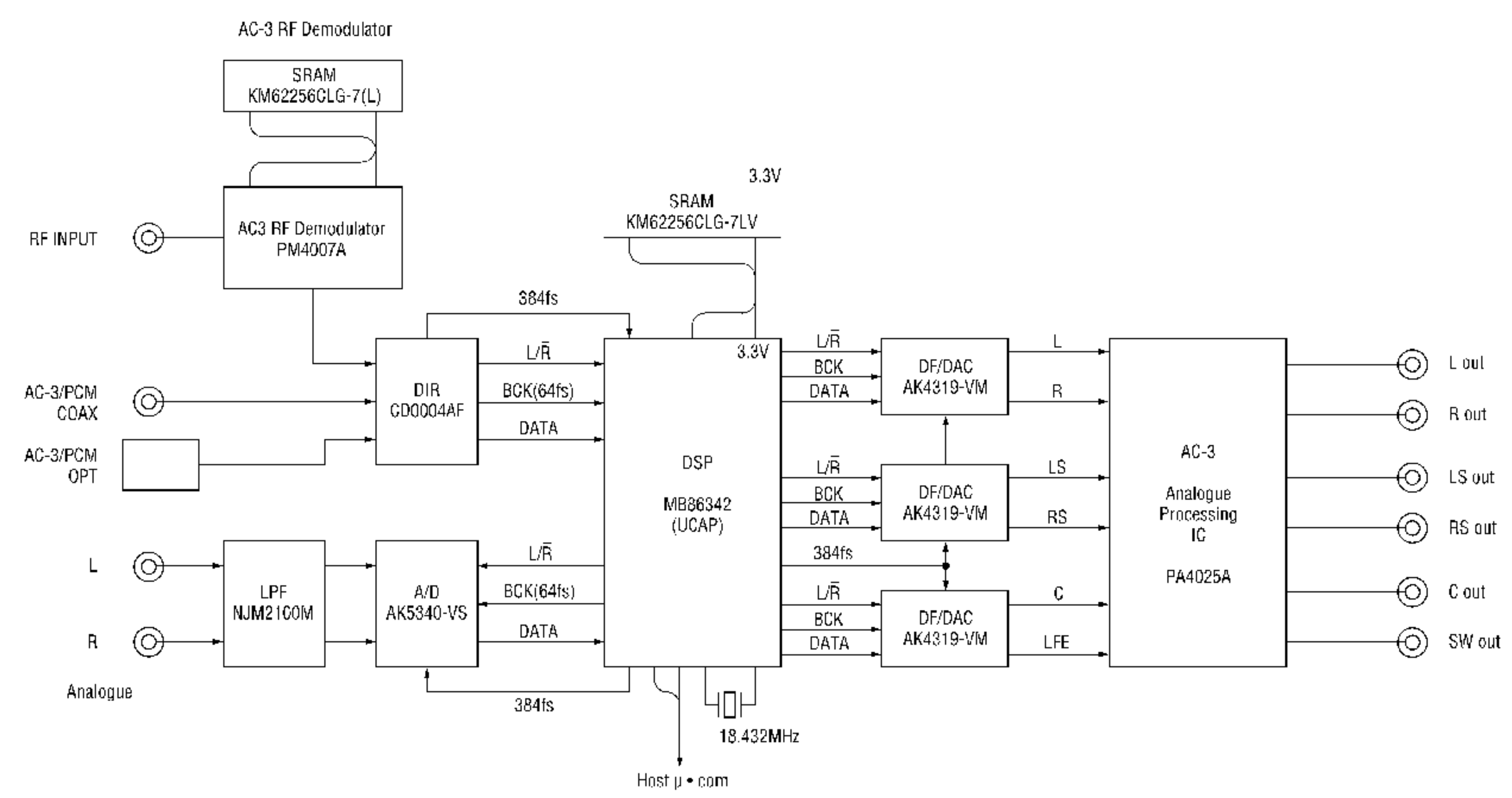
7.3 BLOCK DIAGRAM

7.3.1 AF SECTION

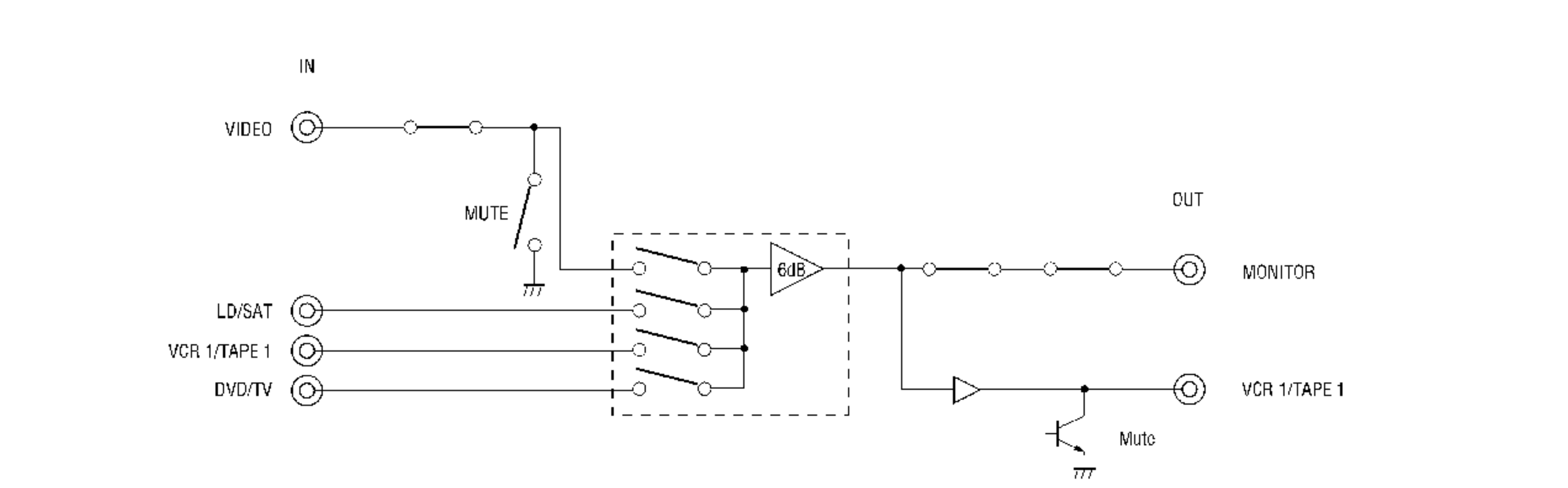


7.3.2 AC-3DECODE ASSY AND VIDEO COMPOSITE SECTION

● AC-3 DECODE ASSY



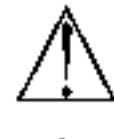
● VIDEO COMPOSITE SECTION

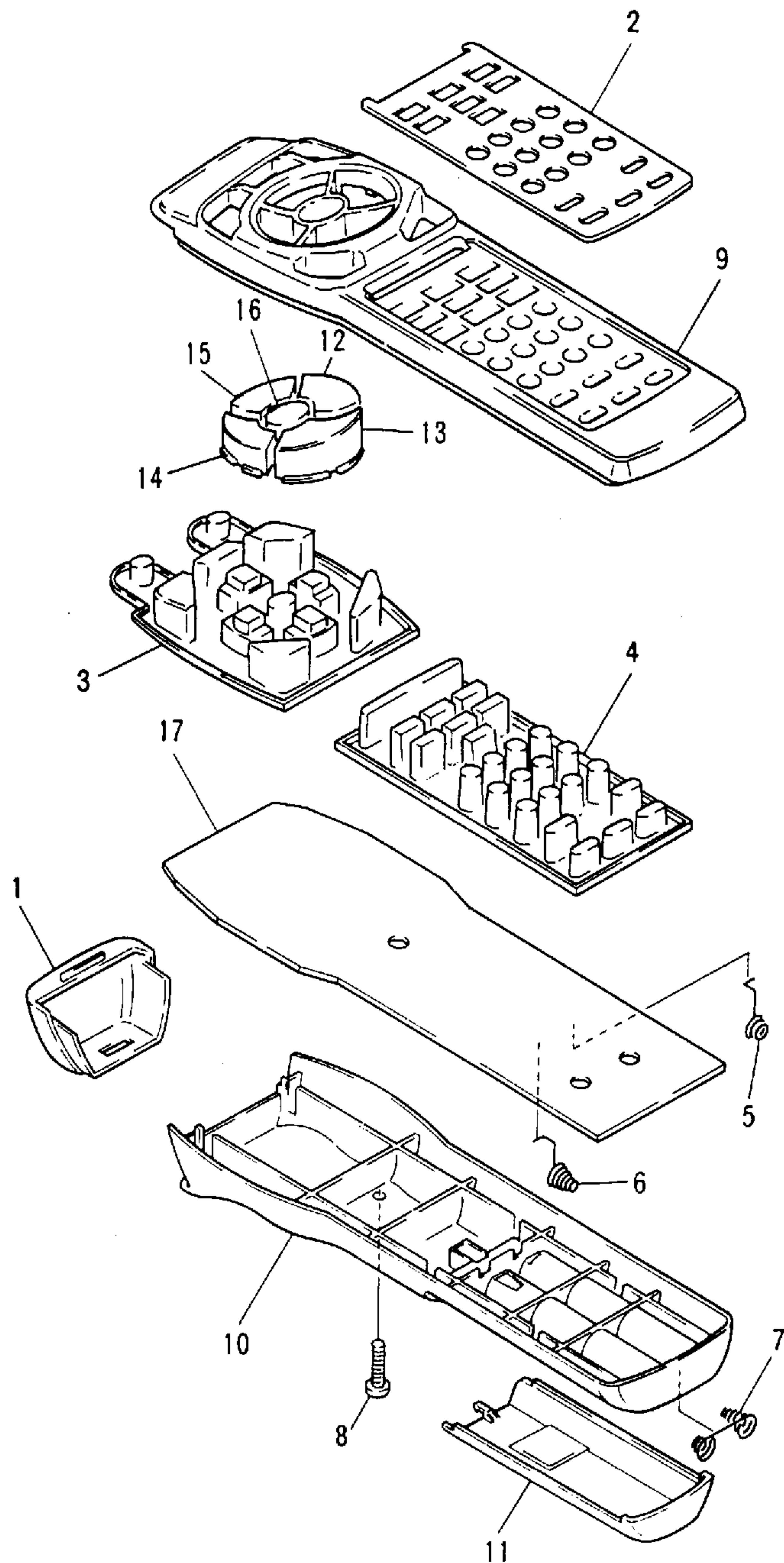


VSX-D736S

7.4 REMOTE CONTROL UNIT [CU-VSX116 (AXD7106)]

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 product are used for disassembly.

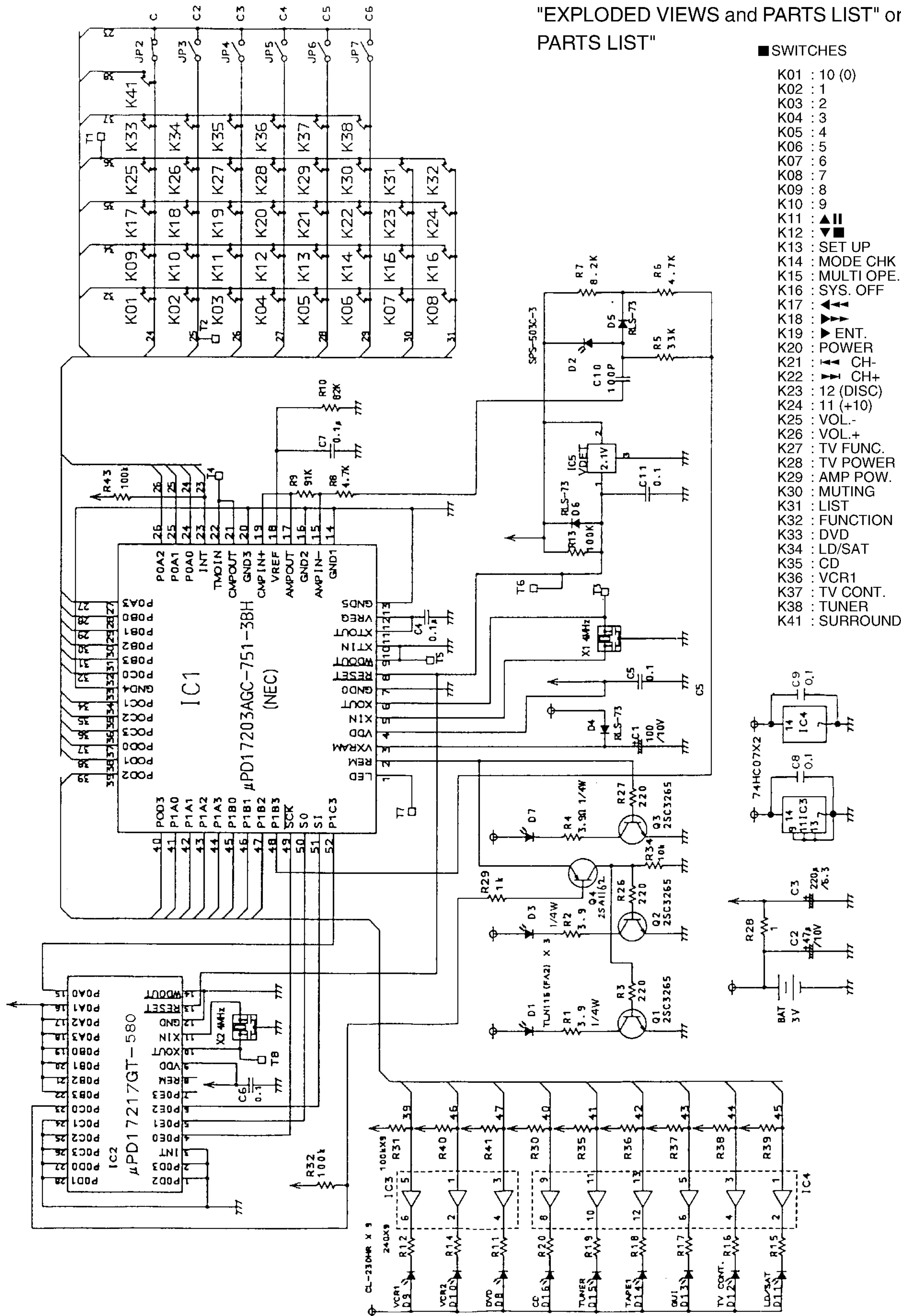


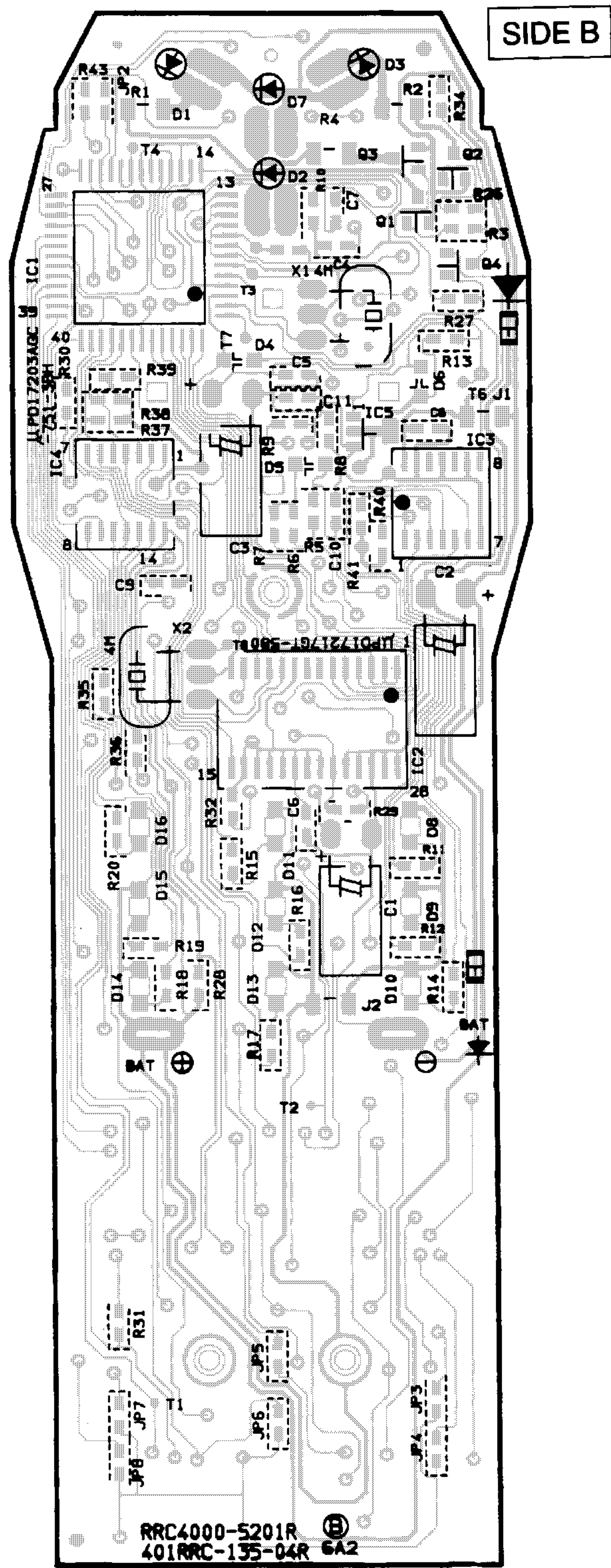
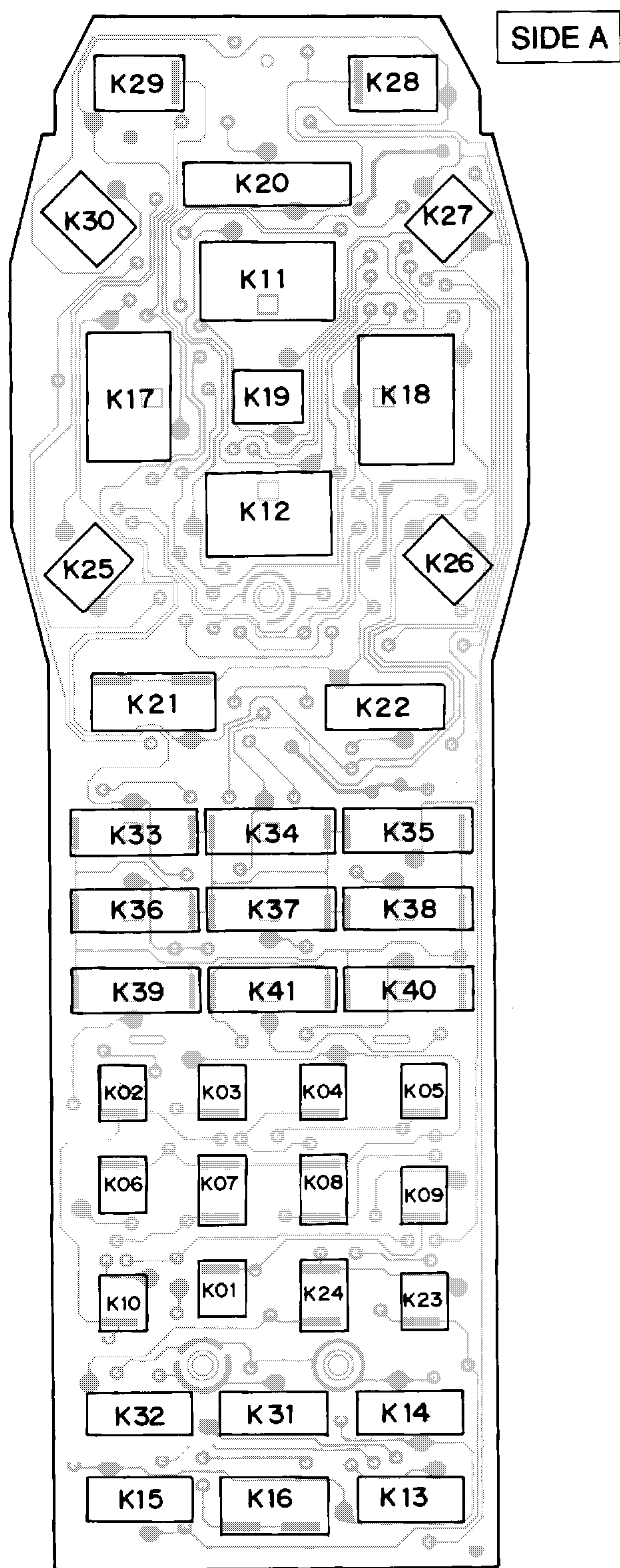
■ Parts List

Mark	No.	Description	Parts No.
	1	Filter	AZA7152
	2	Name Plate	AZA7241
	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 AND PCB DIAGRAM

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





7.4.3 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%).

560Ω	→	56 × 10 ¹	→	561	RD1/4PU	561J
47kΩ	→	47 × 10 ³	→	473	RD1/4PU	473J
0.5Ω	→	R50			RN2H	R50K
1Ω	→	1R0			RS1P	1R0K

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

5.62kΩ	→	562 × 10 ¹	→	5621	RN1/4PC	5621F
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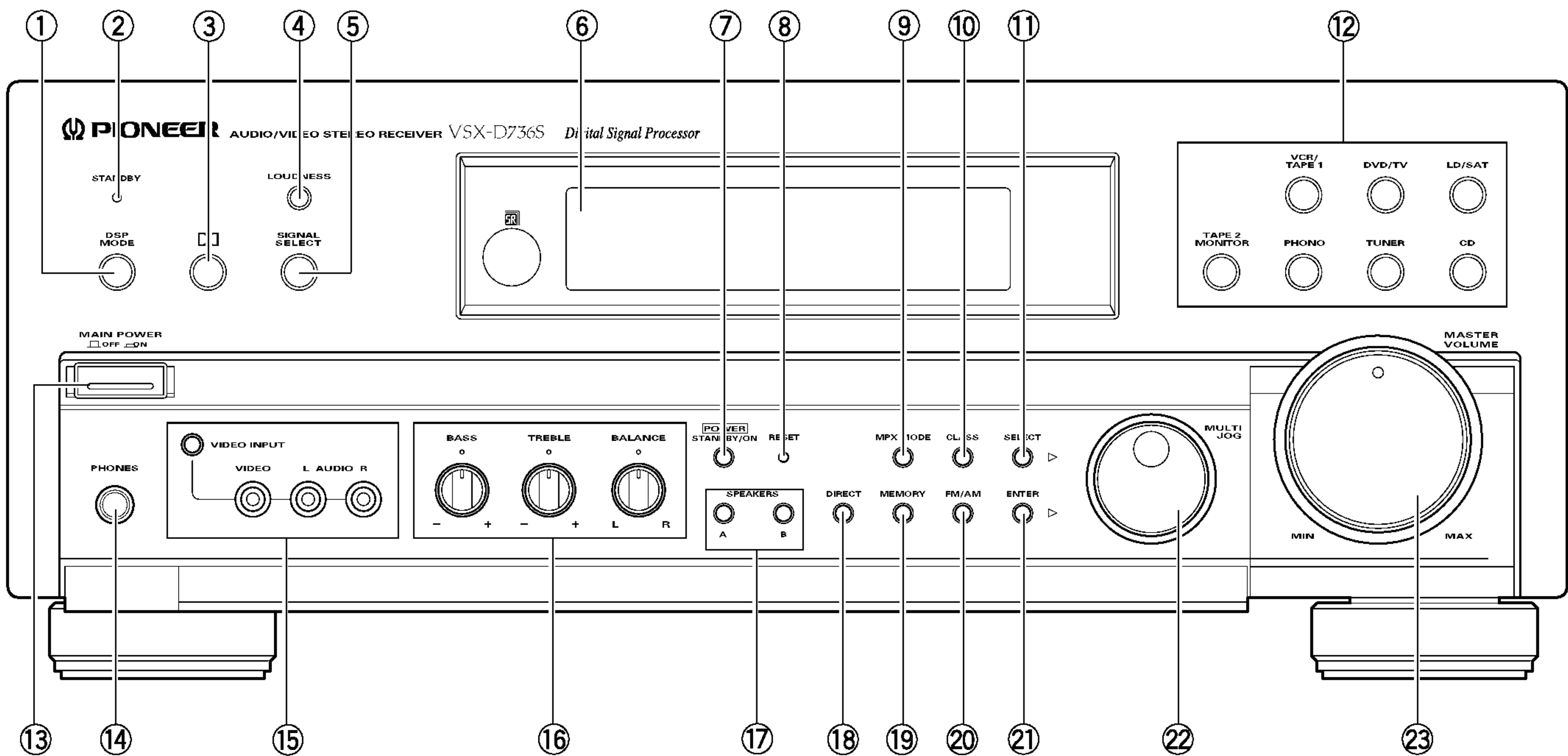
Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	IC1		AZC7275
	IC2		AZC7274
	IC3, IC4		TC74HC07AF
	IC5		RH5VA21AA
	Q4 – Q6		2SA1037
	Q1 – Q3		2SC3265
	D1, D3, D7		SE1003 – C
	D2		SPS – 503C – 3
	D8 – D20 LED		CL – 230HR – CD
	D4 – D6		RLS – 73
CAPACITORS			
	C2		CEAS470M10
	C4 – C7, C11		CKSQYB104K25
	C3		CEAS221M10
	C1		CEAS101M6R3
	C8 – C10		CCSQCH100J50
RESISTORS			
	R2001, R2002		RS1/8S0R0J
	R1, R2 ,R4		RS1/8S3R9J
	Other Resistors		RS1/10S□□□J
OTHERS			
	X1, X2	RESONATOR (4MHz)	KBR – 4.0M

8. PANEL FACILITIES AND SPECIFICATIONS

NAMES OF PARTS

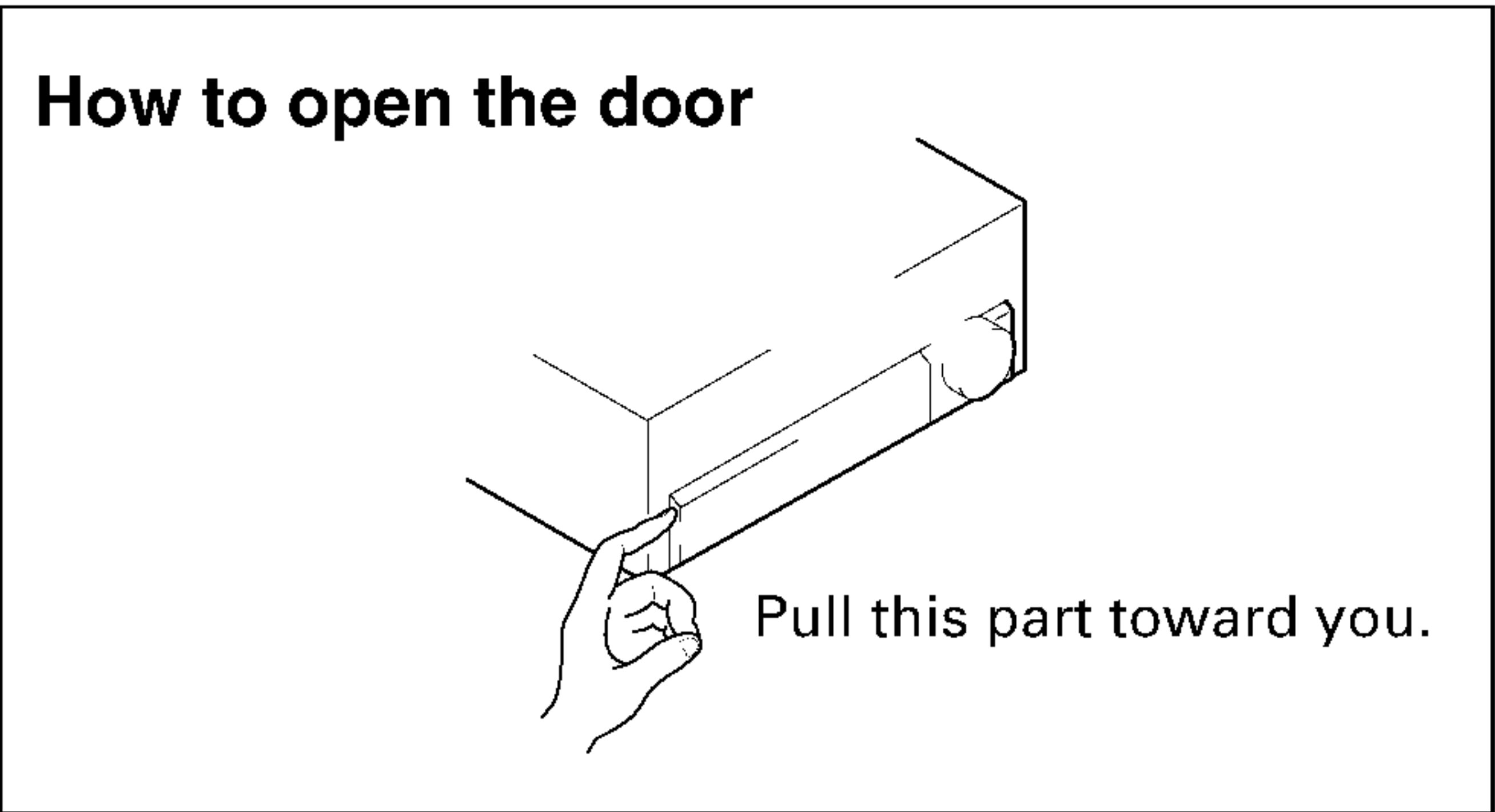
* The size of characters shown in the figure may differ from that on the actual product.

Front panel

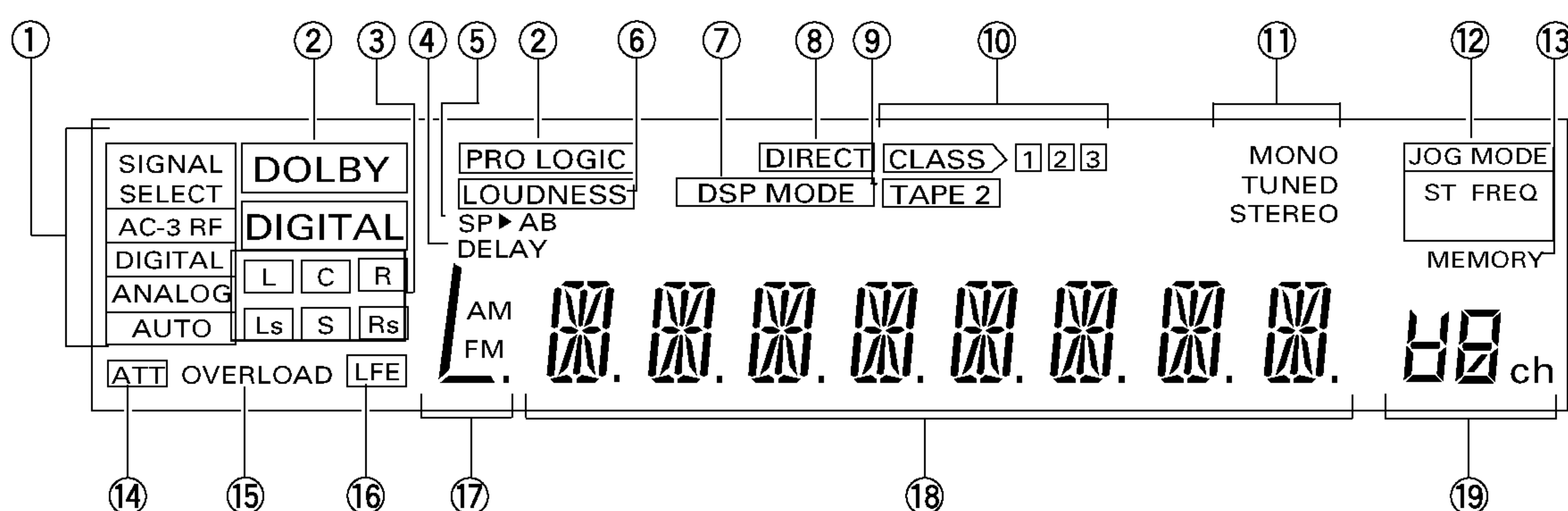


- ① **DSP MODE button**
- ② **STANDBY indicator**
- ③  **button**
- ④ **LOUDNESS button**
Press this button when the volume is low to raise the low and high range levels so that the sound can be heard more easily.
- ⑤ **SIGNAL SELECT button**
- ⑥ **Display**
- ⑦ **POWER STANDBY/ON button**
- ⑧ **RESET button**
- ⑨ **MPX MODE button**
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.
- ⑩ **CLASS button**
- ⑪ **SELECT button**
Use to switch the control of the MULTI JOG between station mode and frequency mode when operating the tuner.
- ⑫ **Function buttons**
- ⑬ **MAIN POWER switch**
- ⑭ **PHONES jack (Headphone terminal)**
- ⑮ **VIDEO INPUT button/terminal**
Connect to a video camera, etc.

- ⑯ **TONE and BALANCE controls**
Use to adjust tone and volume balance.
- ⑰ **SPEAKERS A, B buttons**
ON/OFF switches for the A and B speaker systems.
- ⑱ **DIRECT button**
Use to play back sound without going through the tone and balance control circuits. DOLBY MODE, DSP MODE and LOUDNESS also turn off.
- ⑲ **MEMORY button**
- ⑳ **FM/AM button**
Use to switch the FM/AM frequency band reception.
- ㉑ **ENTER button**
- ㉒ **MULTI JOG**
Use to select the frequency and station number when operating the tuner.
- ㉓ **MASTER VOLUME**



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 mode is ON. There are two Dolby 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 mode is selected.

⑭ ATT indicator

Lights when INPUT ATT is ON.

⑮ OVERLOAD indicator

Lights when 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

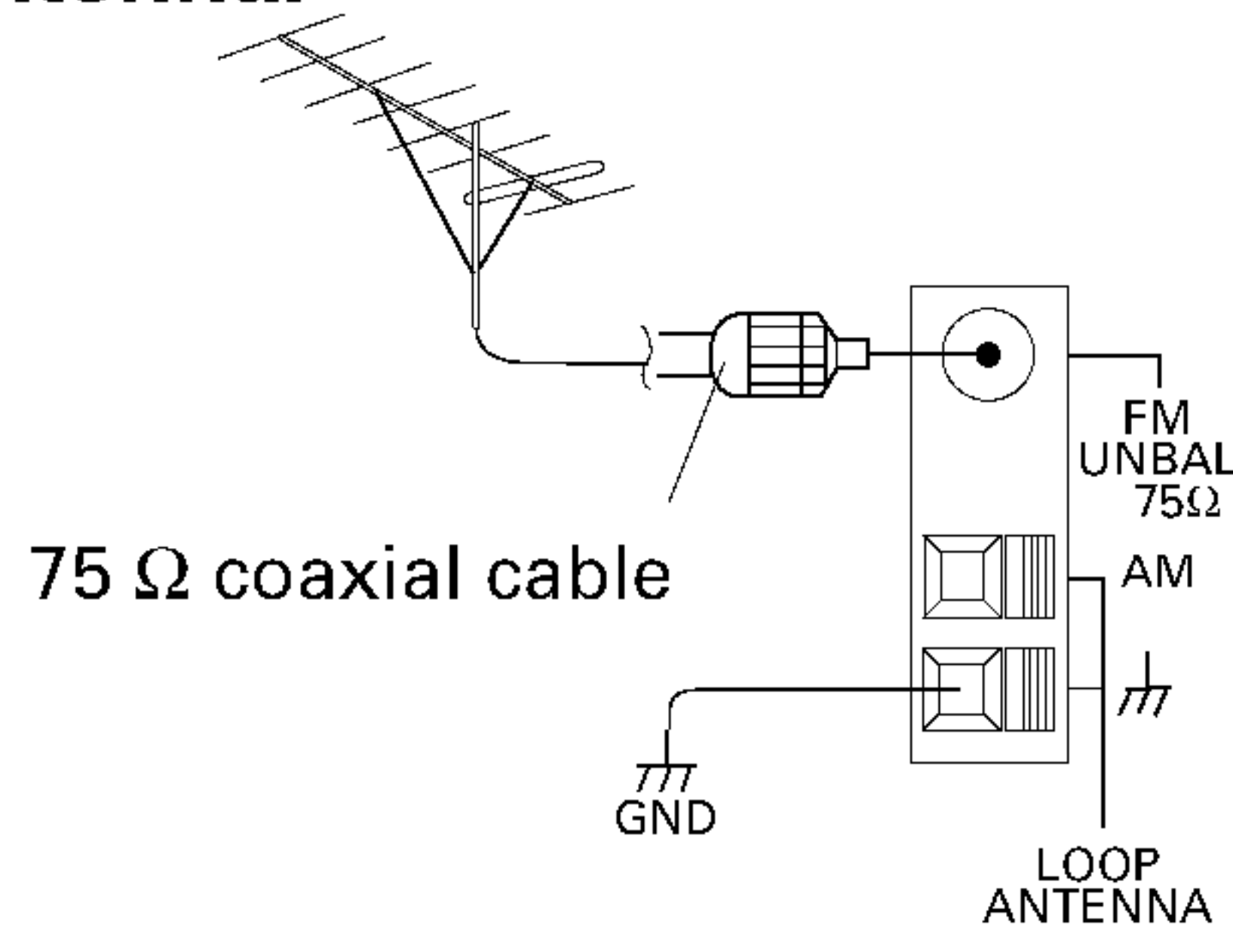
⑲ STATION display

Indicates the station number currently selected.

CONNECTING DEVICES

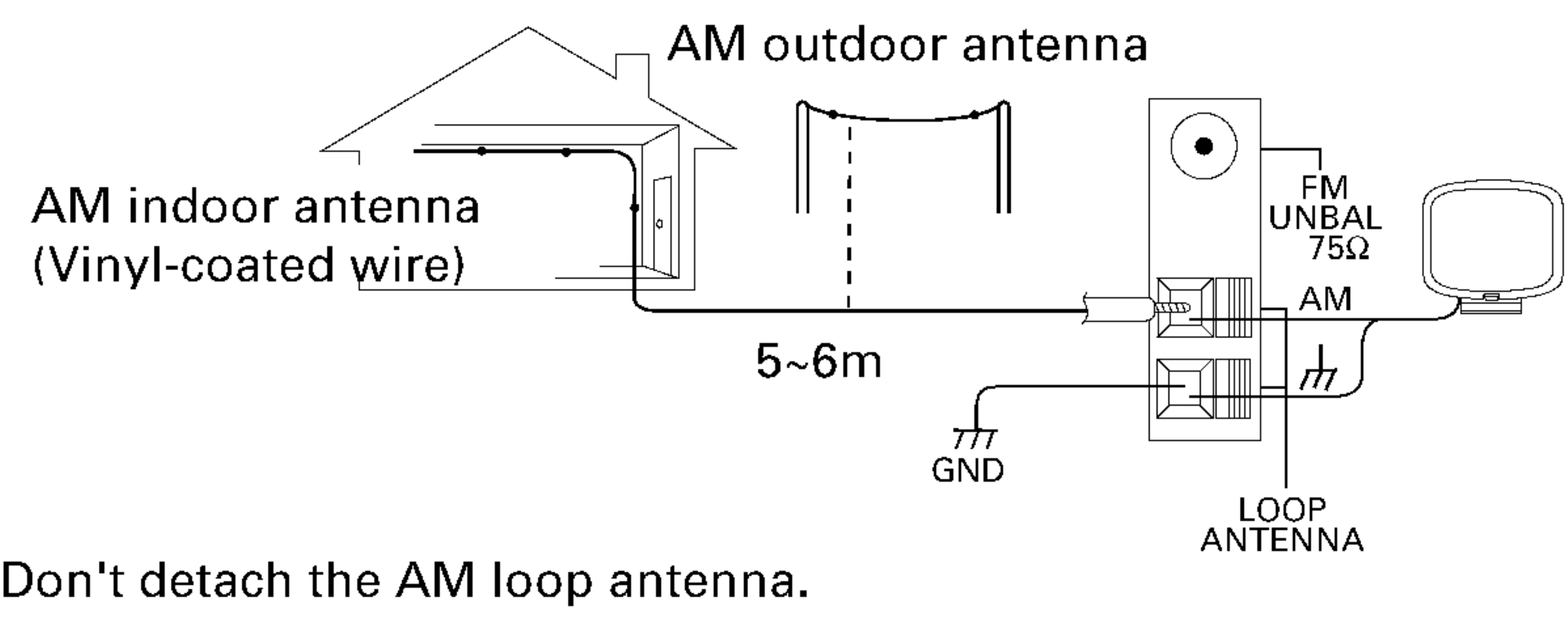
Before making or changing the connections, switch off the power switch and disconnect the power cord from the AC outlet.

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

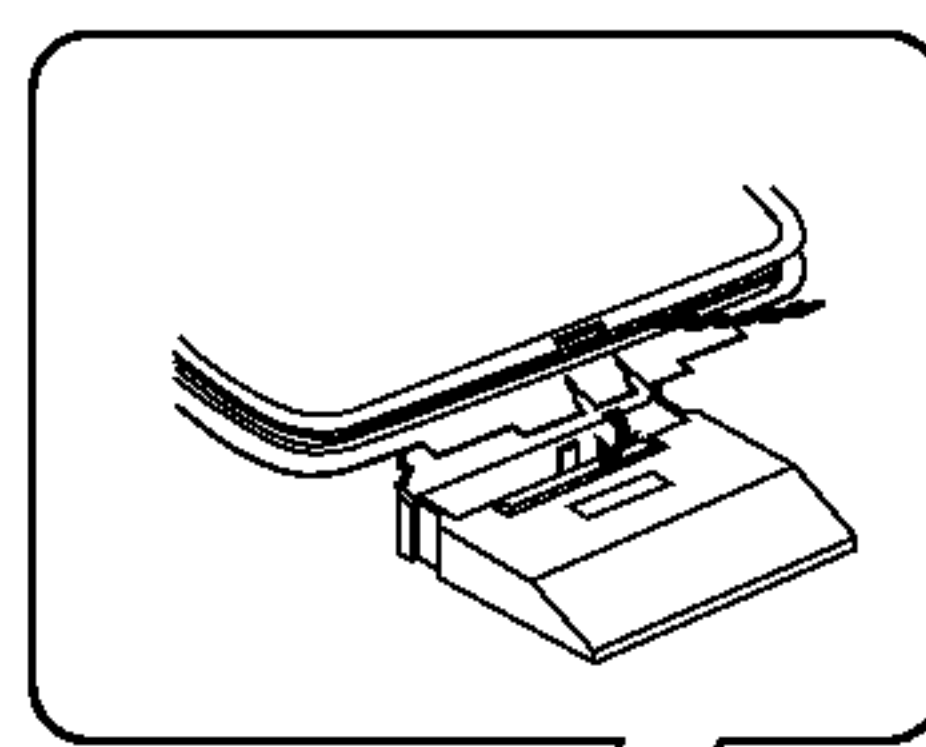


■ When AM broadcast reception is poor

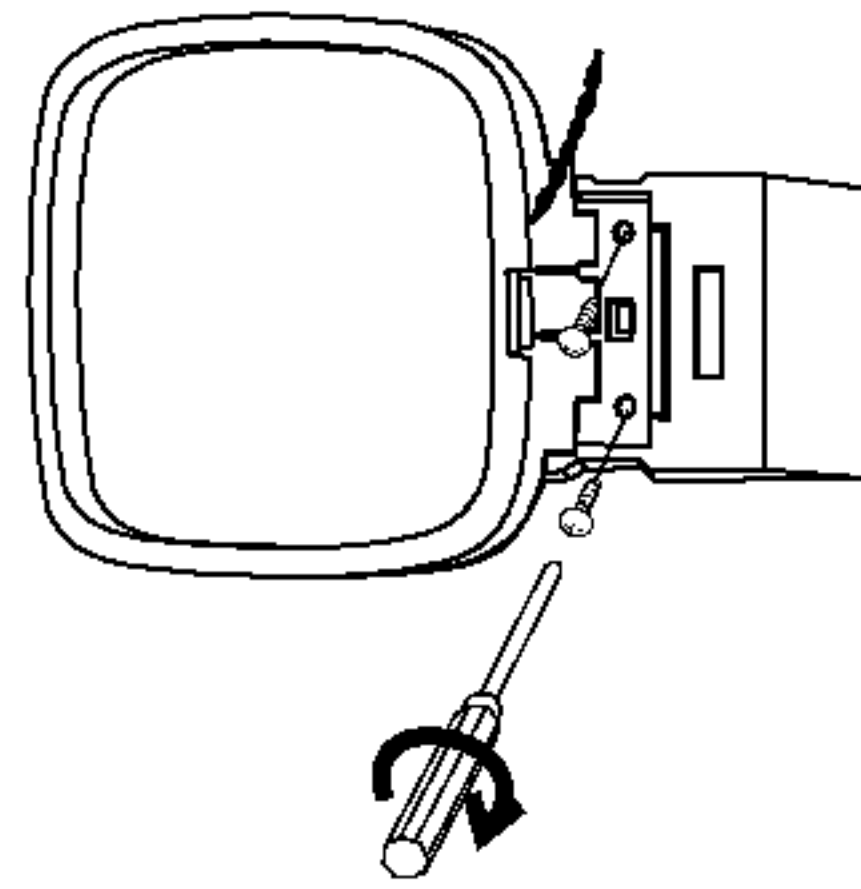
Connect a 5 to 6 meter long vinyl-coated wire to the AM antenna terminal. If possible draw horizontally outdoors to achieve better reception.



■ Assembling the AM loop antenna

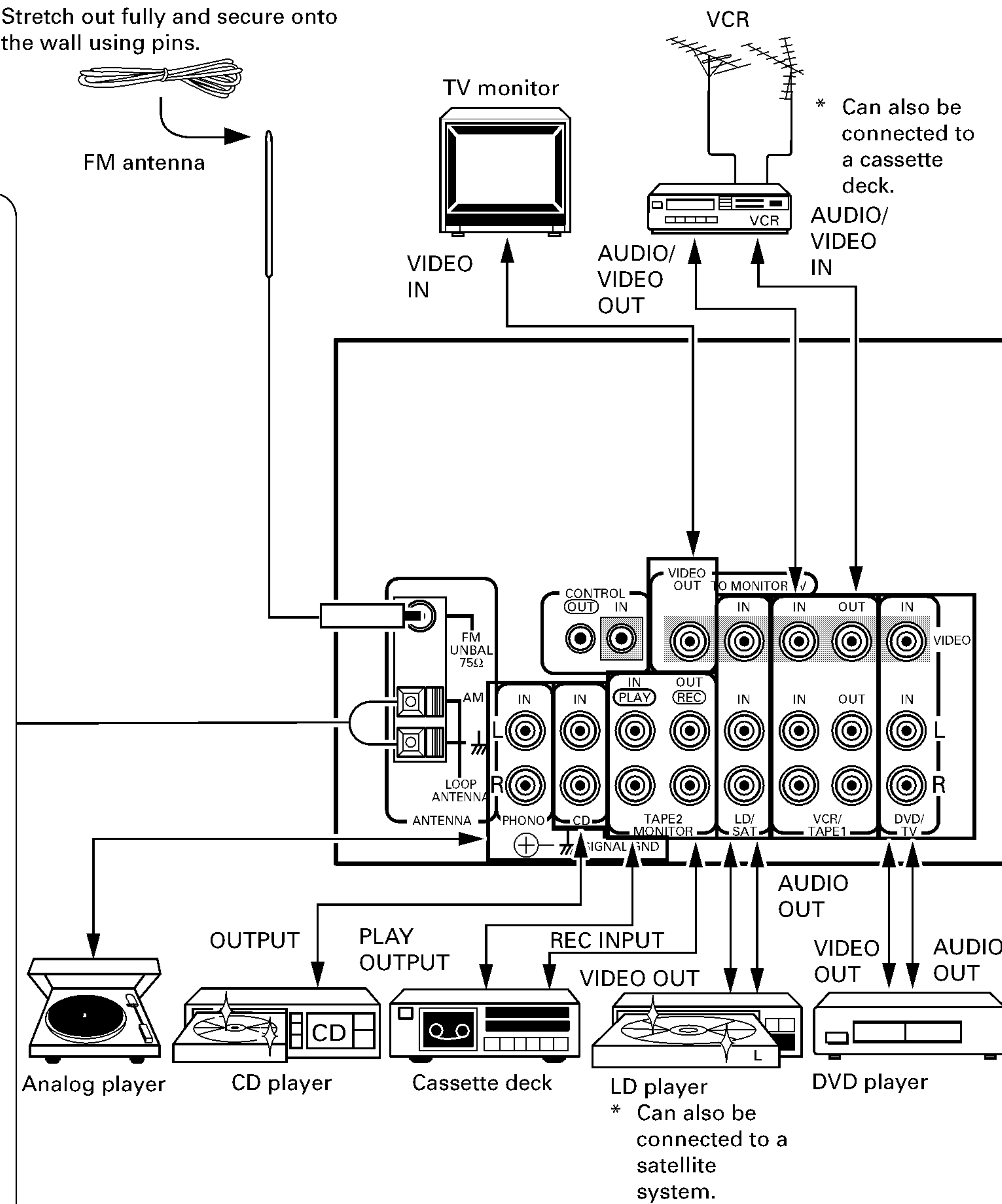


When attaching on a wall, etc.

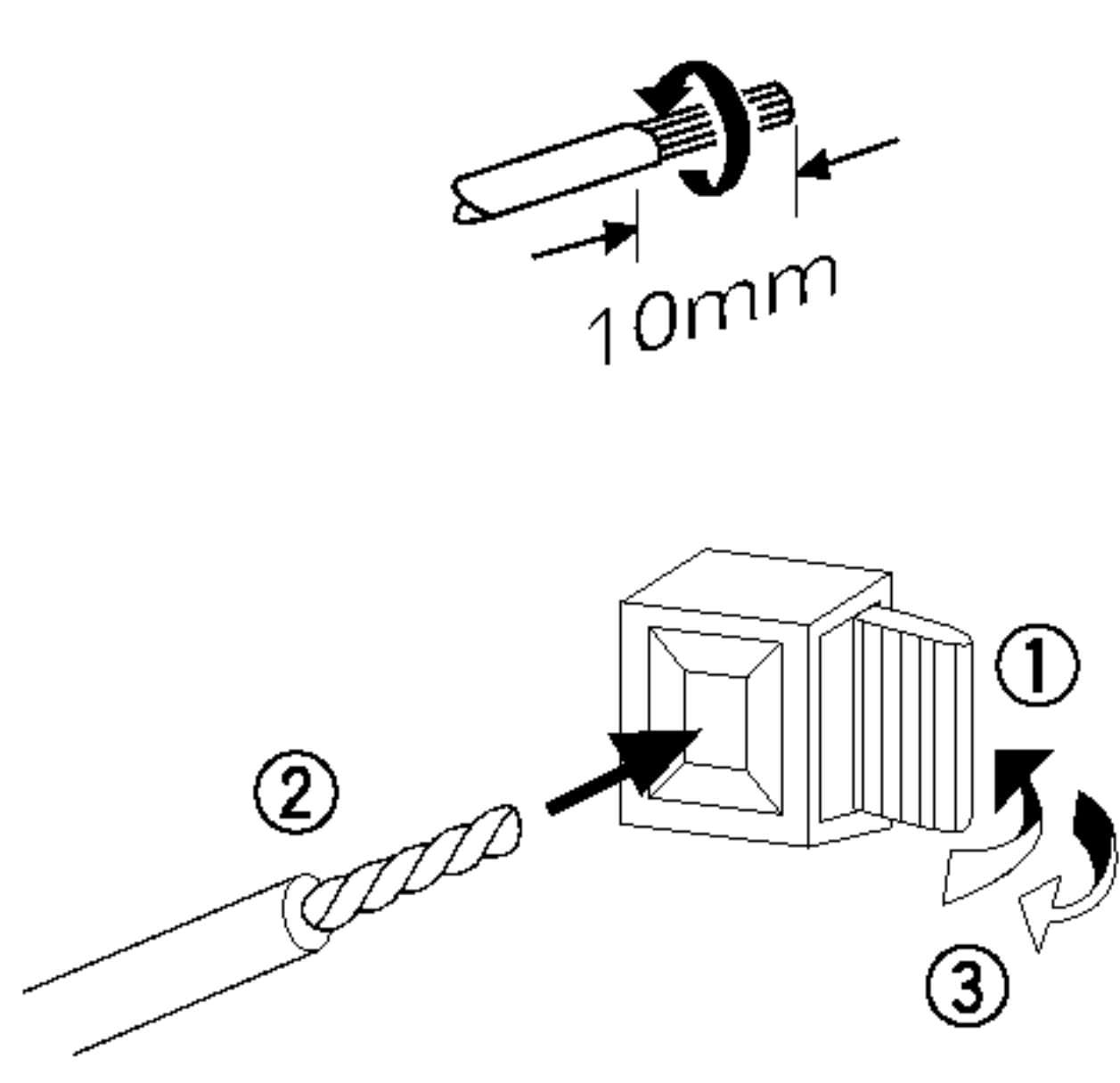


Face towards the direction with the best reception.

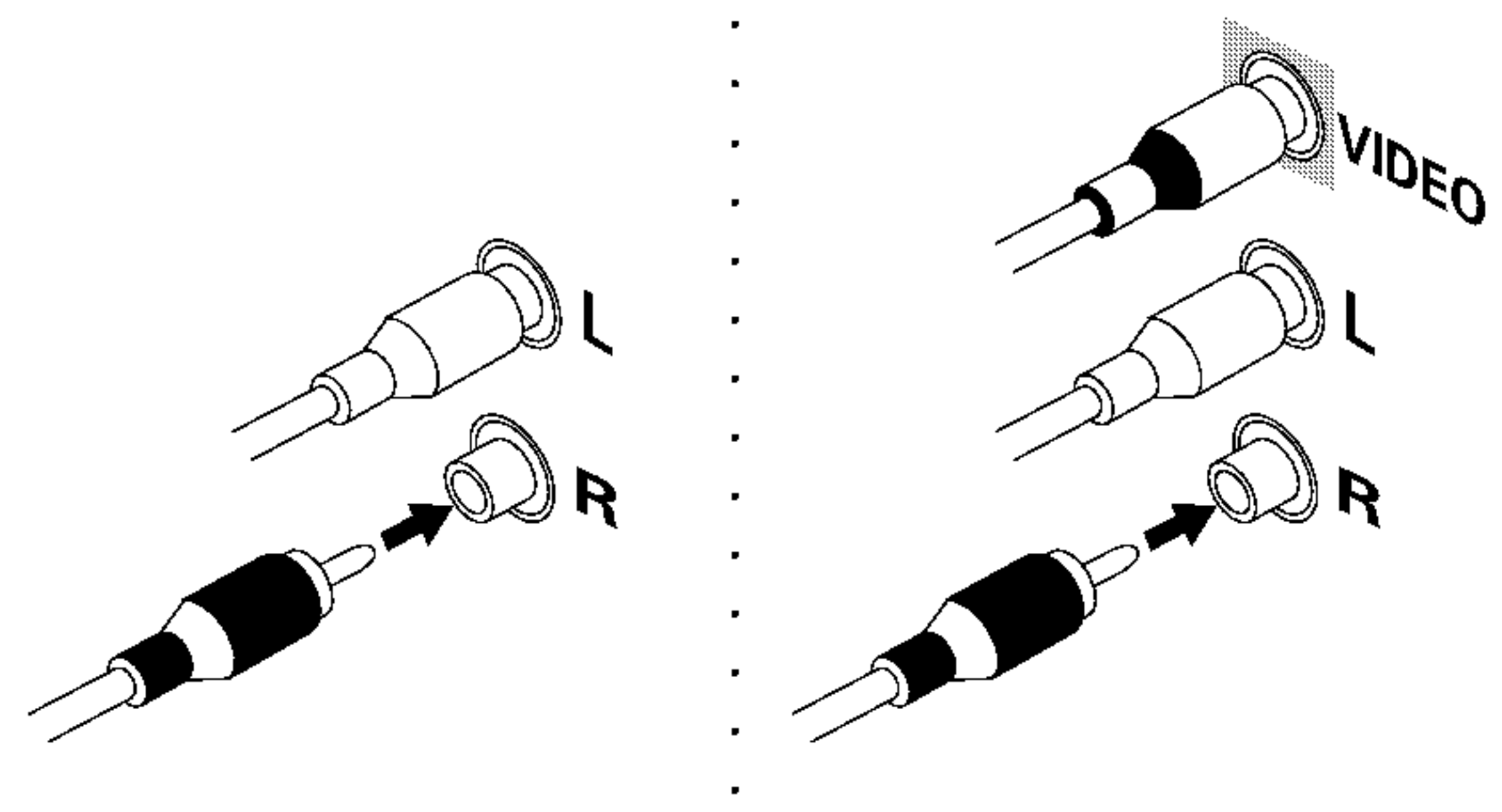
Stretch out fully and secure onto the wall using pins.



■ **AM antenna terminal**

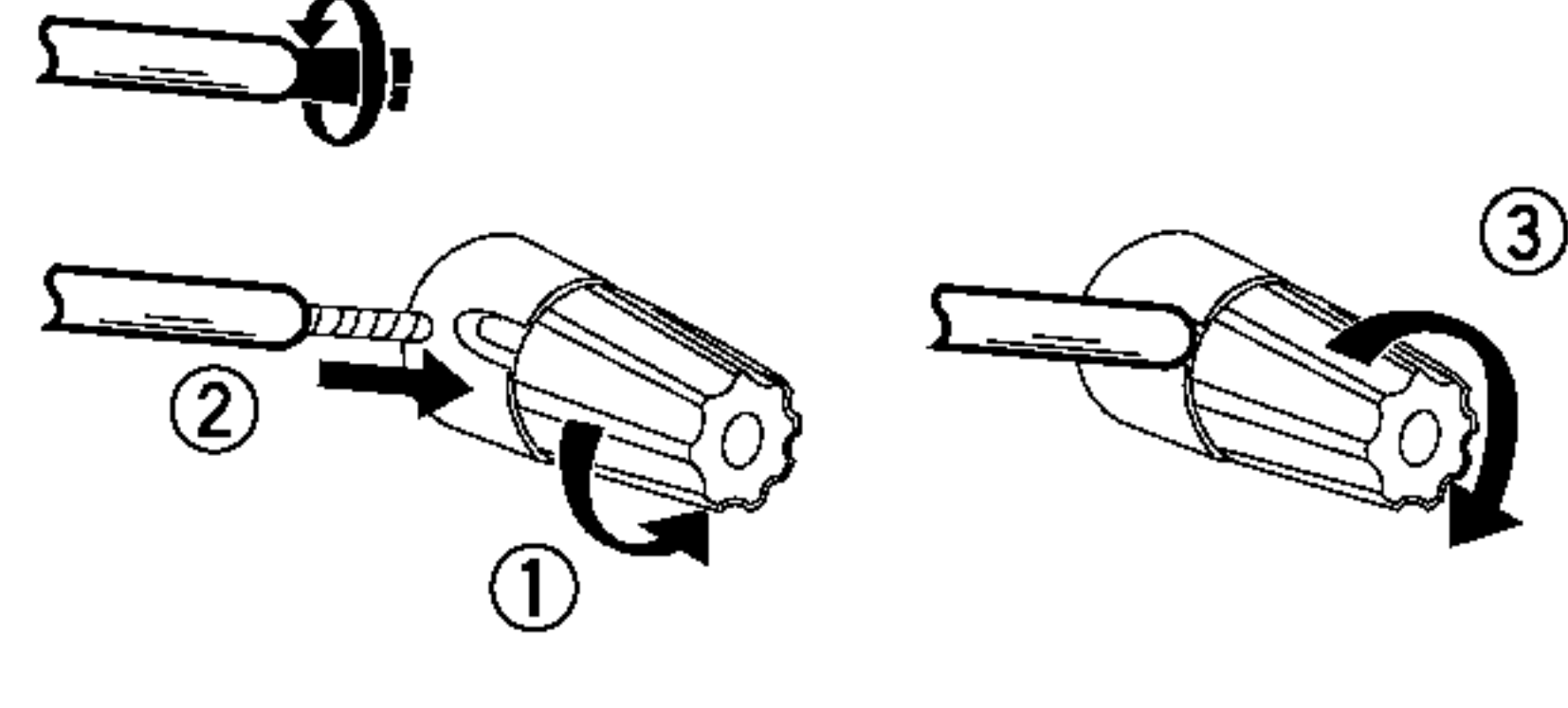


■ **Input/output plugs**

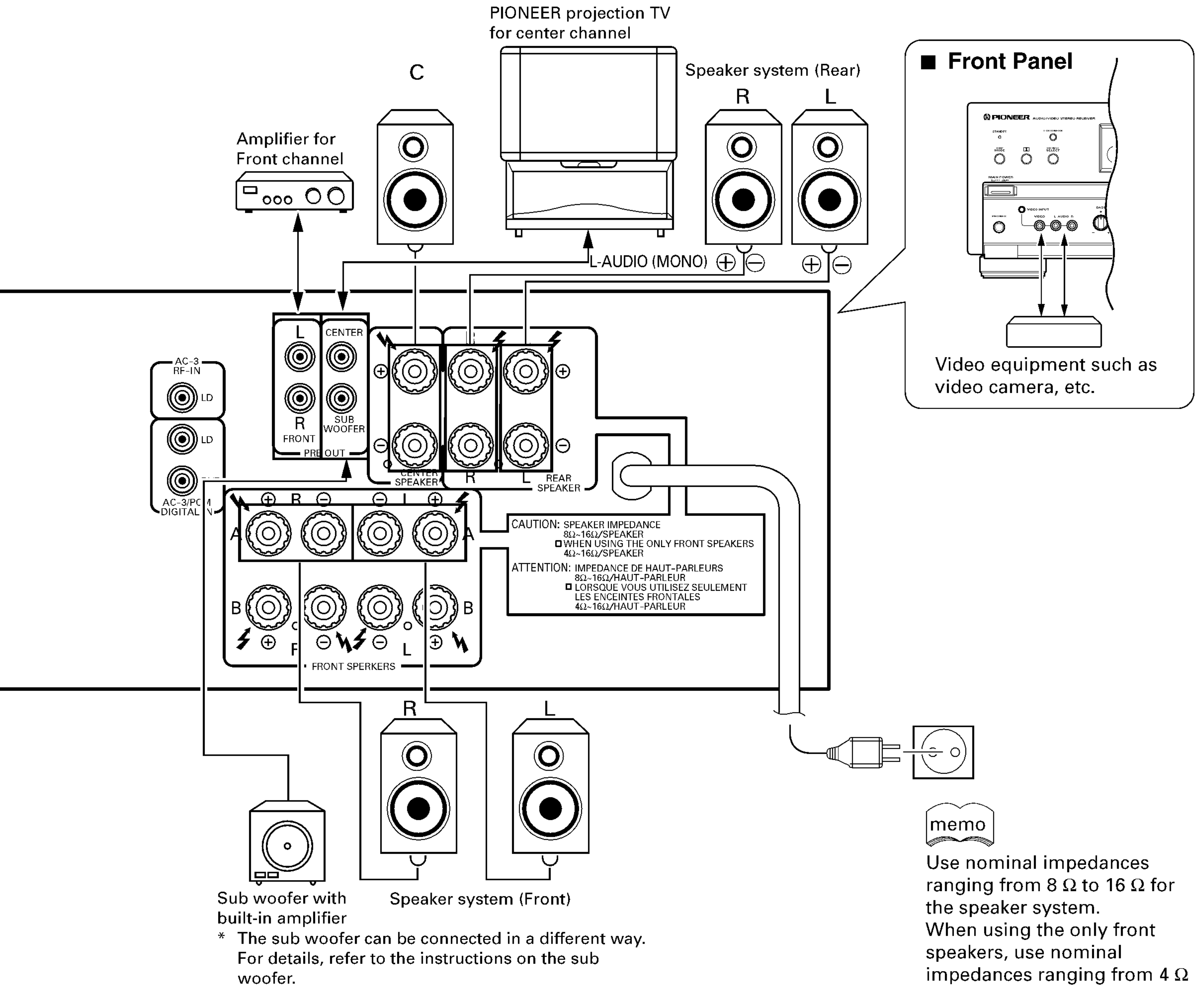


Connect the white plug to L, red plug to R, and yellow plug to VIDEO. Be sure to insert completely.

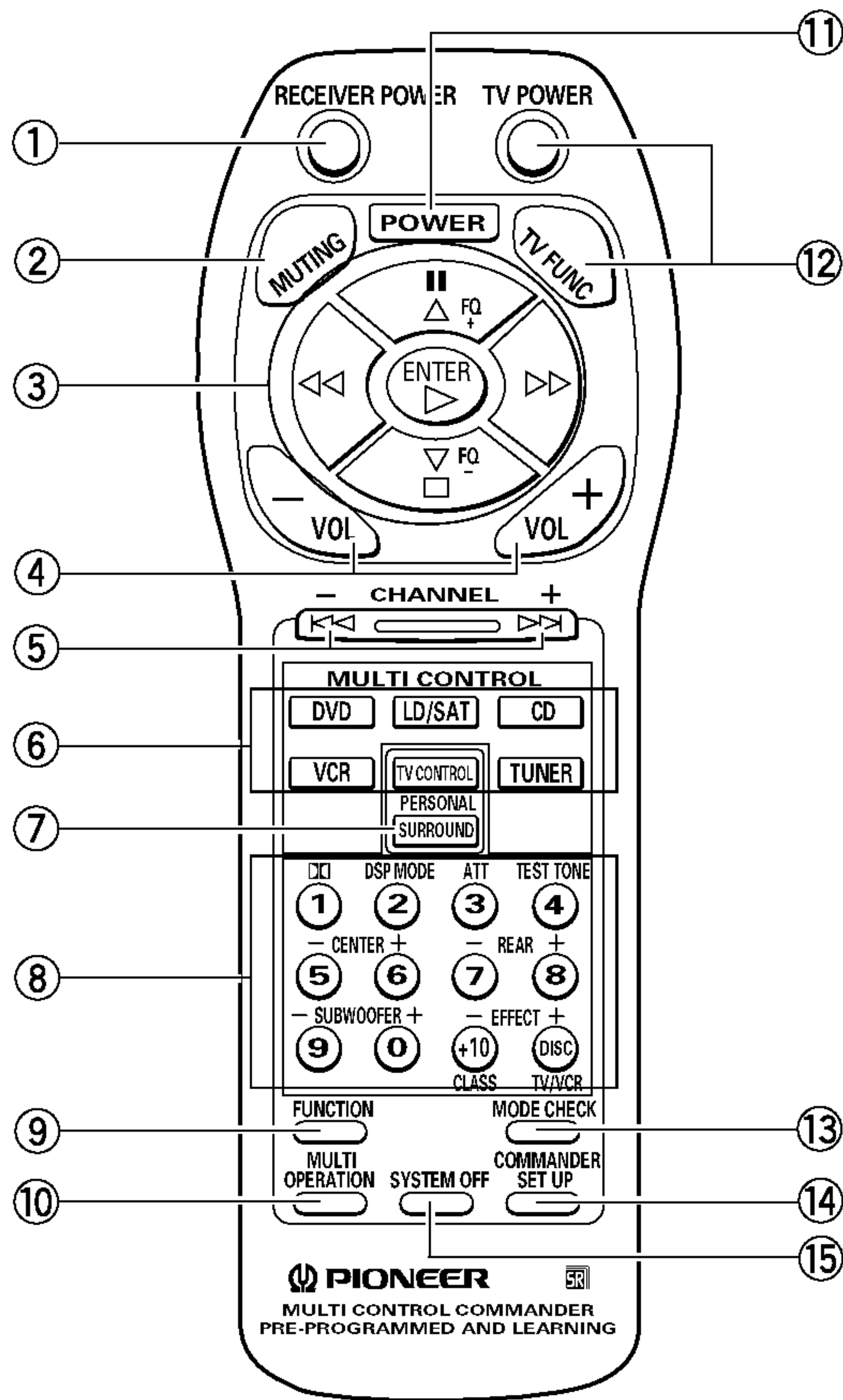
■ **Speaker terminal**



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



Remote control unit



① **RECEIVER POWER button**

② **MUTING button**

Press to mute the volume.

③ **[When set to SURROUND (OPERATIONS)]**

△,▽,◀,▶ (Select/Adjust), ENTER buttons

[When set to other than SURROUND (OPERATIONS)]

⏏ (Pause), □ (Stop), ◀◀ (Rewind), ▶▶ (Fast Forward), ▶ (Play) buttons

[Tuner Operations]

△,▽ (FREQ +, -), ▶ (FM/AM) buttons

④ **VOL (-, +) buttons**

⑤ **[TV Operations]**

Selects the TV broadcast channel.

[Tuner Operations]

Selects the Tuner station.

[CD, LD, DVD operations]

◀◀, ▶▶ (Chapter/Track Search) buttons

[VCR Operations]

Changes the channels of the TV tuner in the VCR.

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/PERSONAL button**

[When setting MULTI operations]

Press when setting to the personal mode using multi operations.

[When setting to other than multi operation]

Press when performing surround operations and setting/changing setting modes.

⑧ **Number/surround setting buttons**

[When setting surround (operations)]

⏏ : Turns the Dolby Mode ON/OFF.

DSP MODE: Switches the surround effects.

ATT: When turned ON when the sound is unstable due to excessive input levels, the input signal level drops so that the sound becomes easier to listen to.

When connecting a LD player or DVD player with the AC-3 RF-IN terminal or AC-3/PCM DIGITAL IN terminal, the inputted sound signal is not effective. 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 the station call is selected or during direct access.

CLASS: Switches the CLASS number.

DISC: Use to set the direct access mode.

[VCR operations]

Number buttons: Used for selecting 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 set 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 manufacturer's 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 65 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	
(DIN, 1 kHz, T.H.D. 1 %, 4 Ω)	
STEREO	Front 110 W + 110 W
(DIN, 1 kHz, T.H.D. 1 %, 8 Ω)	
STEREO	Front 80 W + 80 W
SURROUND	Front 60 W + 60 W
	Center 60 W
	Rear 60 W + 60 W

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

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

Output (Level/Impedance)	
VCR/TAPE 1 REC, TAPE 2 REC	 200 mV/1 kΩ

Tone Control	
BASS	 ± 9 dB (100 Hz)
TREBLE	 ± 9 dB (10 kHz)

Signal-to-Noise Ratio [DIN (Continuous power output/50 mW)]*	
PHONO MM	 67 dB/61 dB
LD/SAT, CD, VCR/TAPE 1, TAPE 2	
DVD/TV, VIDEO	 82 dB/62 dB

* Direct: ON
** Measured by Audio Spectrum Analyzer.

VIDEO Section	
Input (Sensitivity/Impedance)	
LD/SAT, VCR, DVD/TV, VIDEO	 1 Vp-p/75 Ω
Output (Level/Impedance)	
VCR REC, MONITOR TV	 1 Vp-p/75 Ω
Frequency Response	
LD/SAT, VCR, DVD/TV, VIDEO	
→ MONITOR	 5 Hz to 7 MHz ⁺⁰ ₋₃ dB
Signal-to-Noise Ratio	 55 dB
Cross Talk	 55 dB

Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby", "AC-3", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

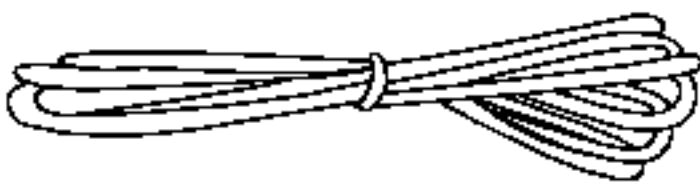
FM Tuner Section	
Frequency Range	 87,5 MHz to 108 MHz
Usable Sensitivity	 Mono: 14.2 dBf, IHF (1.4 μV/75 Ω)
50 dB Quieting Sensitivity	 Mono: 18 dBf
	 Stereo: 38.3 dBf
Signal-to-Noise Ratio	 Mono: 76 dB (at 85 dBf)
	 Stereo: 72 dB (at 85 dBf)
Distortion	 Stereo: 0.6 % (1kHz)
Alternate Channel Selectivity	 70 dB (400 kHz)
Stereo Separation	 40 dB (1 kHz)
Frequency Response	 30 Hz to 15 kHz (± 1) dB
Antenna Input	 75 Ω unbalanced
Sensitivity (DIN)	 Mono: 1.0 μV (S/N 26 dB)
	 Stereo: 50 μV (S/N 46 dB)
Signal-to-Noise Ratio (DIN)	 Mono: 62 dB
	 Stereo: 58 dB

AM Tuner Section	
Frequency Range	 531 kHz to 1,602 kHz
Sensitivity (IHF, Loop antenna)	 350 μV/m
Selectivity	 30 dB
Signal-to-Noise Ratio	 50 dB
Antenna	 Loop antenna

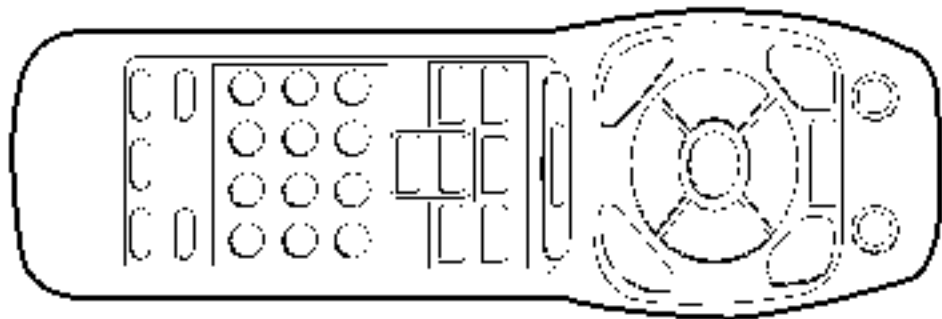
Miscellaneous	
Power Requirements	
Singaporean model	 AC 220-230 V, 50/60 Hz
Australian model	 AC 240 V, 50/60 Hz
Power Consumption	 770 W
Dimensions	 420 (W) × 160 (H) × 433 (D) mm
Weight (without package)	 12.5 kg

Furnished Parts	
FM Antenna	 1
AM Loop Antenna	 1
Dry Cell Batteries [size "AA" (IEC LR6)]	 2
Remote Control Unit	 1
Operating Instructions	 1
Warranty Card (Australian model only)	 1
Sub Instruction Manual (Remote Control Unit)	 1
Sub Instruction Manual [Dolby Digital (AC-3)]	 1

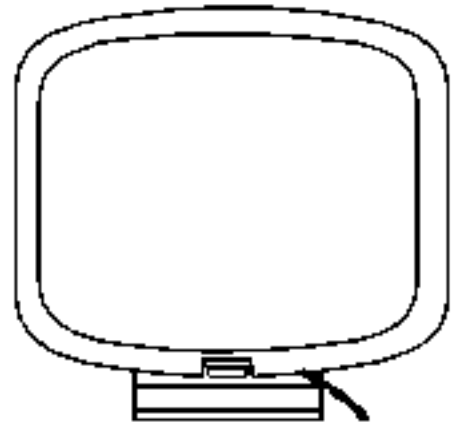
NOTE:
Specifications and the design are subject to possible modifications without notice, due to improvements.



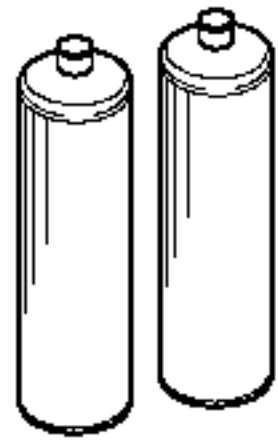
FM antenna



Remote control unit



AM loop antenna



Alkaline dry cell battery (size "AA" IEC LR6) x 2