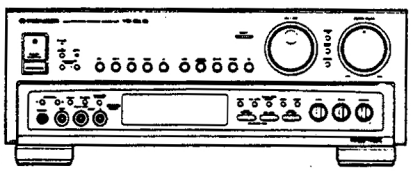
PIONEER
The Art of Entertainment

Service Manual



The illustration shows model VSX-D903S

ORDER NO.
ARP2851

AUDIO/VIDEO STEREO RECEIVER

VSX-D903S
VSX-D933S
VSX-53
VSX-D703S
VSX-D603S
VSX-D613S
VSX-D633S

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-D903S	VSX-D933S	VSX-53	VSX-D703S	VSX-D603S	VSX-D613S	VSX-D633S		
KU	○	–	–	○	○	–	–	AC 120V	———
KC	○	–	–	–	–	○	–	AC 120V	———
KU/CA	–	–	○	–	–	–	–	AC 120V	———
SD	○	–	–	–	○	–	–	AC 110V/120-127V/220V/240V	With the voltage selector
HL	–	○	–	–	–	–	○	AC 220-230V	AC 240V, *

* : 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.

• **For the following : VSX-D903S/KC and SD ; VSX-D933S/HL ; VSX-D603S/SD ; VSX-D613S/KC ; VSX-D633S/HL, refer to page 111.**

CONTENTS

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.

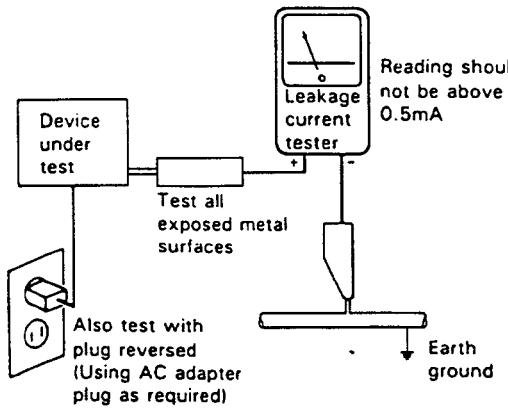
(FOR USA MODEL ONLY)

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 ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which dose 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.

WARNING!

Lithium batteries. Danger of explosion. Replacement must be done by qualified personnel and only by following the instructions given in the service manual.

This warning is stated on the product or in the operating instructions. When replacing the lithium batteries, follow the note below.
Dispose of the used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.
The battery used in this device may present a fire or chemical hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace only with the same Part Number. Use of another battery may present a risk of fire or explosion.

Note: The lithium battery installation position is shown in the exploded view and the P.C. board pattern.

ADVARSEL!

Lithiumbatteri — Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

Denne advarsel or angivet på produktet eller i brugsvejledningen. Ved udskiftning af lithium batterierne følges nedenstående anveisning.
Batterierne må kun udskiftes med batterier af samme type og mærke.

VARNING!

Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

Denna varning finns på apparaten eller i bruksanvisningen. Följ nedanstående anvisningar vid byte av litiumbatterier.
Batterierna får endast bytas ut mot litiumbatterier av samma typ och fabrikat.

2. DISASSEMBLY

• Operation Check Procedure of POWER AMP ASSY

1. (This step is only performed for VSX - D903S and VSX - D933S .)
   Remove the shield case A for GUI assy and SR & S. TERMINAL assy. Move it toward the left side of the set with lead wires. (five screws and a rivet.)
2. Remove five binders (① – ⑤) in the position where the surrounding radiator.
3. Remove a lead Ⓐ of thermistor which soldering the CONNECTION assy.
4. Remove four screws to remove the radiator and four screws to remove the POWER AMP assy.
5. Stand the radiator with the POWER AMP assy on the chassis by setting the fan motor side toward the under, and perform the POWER AMP assy check.

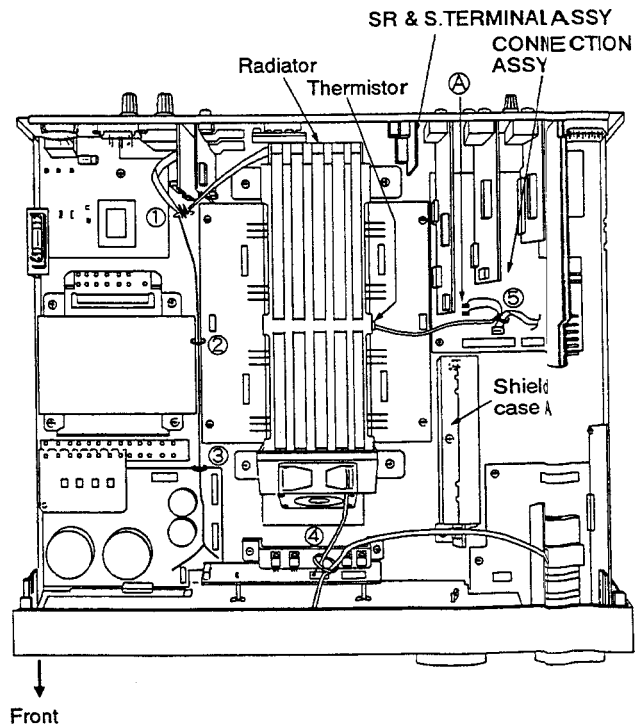


Fig. 1

3. EXPLODED VIEWS, PACKING 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.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

• Parts List (For VSX-D703S/KU and VSX-D603S/KU)

Mark	No.	Description	Part No.
NSP	1	TUNER ASSY	AWE1140
	2	POWER AMP ASSY	AWZ5402
	3	PRIM ASSY	AWZ5405
NSP	4	TRANS ASSY	AWZ5406
NSP	5	FRONT SP ASSY	AWZ5413
NSP	6	R.C. SP ASSY	AWZ5414
	7	REG ASSY	AWZ5415
	8	POWER SUPPLY ASSY	AWZ5437
NSP	9	R.C. MUTE ASSY	AWZ5707
	10	VOL ASSY	AWZ5421
	11	AUDIO FUNCTION ASSY	AWZ5422
	12	A/V FUNCTION ASSY (VSX-D703S)	AWZ5423
	12	A/V FUNCTION ASSY (VSX-D603S)	AWZ5429
	13	VIDEO FUNCTION ASSY (VSX-D703S)	AWZ5424
	13	VIDEO FUNCTION ASSY (VSX-D603S)	AWZ5430
	14	CONNECTION ASSY (VSX-D703S)	AWZ5425
	14	CONNECTION ASSY (VSX-D603S)	AWZ5428
	15	TONE ASSY	AWZ5426
	16	SR ASSY	AWZ5433
NSP	17	F.MUTE ASSY	AWZ5708
NSP	18	F.VIDEO ASSY (VSX-D703S ONLY)	AWZ5435
	19	FL U-COM ASSY (VSX-D703S)	AWZ5605
	19	FL U-COM ASSY (VSX-D603S)	AWZ5436
	20	PROLOGIC•SFC MODULE	AXQ1024
	21	• • • • •	
	22	• • • • •	
	23	• • • • •	
⚠	24	Q4 TRANSISTOR	2SA1302
⚠	25	Q6 TRANSISTOR	2SA1302
⚠	26	Q7 TRANSISTOR	2SC3181N
⚠	27	Q1 TRANSISTOR	2SC3281
⚠	28	Q2 TRANSISTOR	2SC3281
⚠	29	Q5 TRANSISTOR	2SC3281
⚠	30	Q8 TRANSISTOR	2SA1264N
⚠	31	Q3 TRANSISTOR	2SA1302
	32	TERMINAL SCREW	AKE-031
⚠	33	FU5, FU6 FUSE(1.6A, 125V)	AEK-121
⚠	34	FU3, FU4 FUSE(4A, 125V)	AEK-125

Mark	No.	Description	Part No.
⚠	35	FU1 FUSE(10A, 125V)	AEK1035
⚠	36	AC POWER CORD	ADG1146
	37	J2 FLEXIBLE CABLE	ADD1134
	38	J1 FLEXIBLE FLAT CABLE	ADD1136
NSP	39	J3 SHIELD WIRE 5P (VSX-D703S ONLY)	ADX2096
⚠	40	FAN MOTOR	AXM1022
NSP	41	CHASSIS(MTL)	ANA1480
	42	REAR PANEL(VSX-D703S)	ANC2195
	42	REAR PANEL(VSX-D603S)	ANC2193
NSP	43	RADIATOR(AL)	ANH1494
	44	FOOT ASSY	AMR2414
	45	VOLUME HOLDER(MTL)	ANG1902
	46	L STYLE HOLDER(MTL)	ANG1903
	47	NYLON BINDER	AEC-093
NSP	48	PCB HOLDER	AEC1097
	49	PCB HOLDER	AEC1534
NSP	50	WIRE CLIP(VSX-D703S ONLY)	AEC1535
	51	MICA SHEET	AEE1014
⚠	52	AC CORD STOPPER	AEP-113
	53	BINDER	AEP-215
	54	RIVET(PLASTIC)	AMR1066
NSP	55	PCB MOULD	AMR1525
	56	FAN HOLDER(PLS)	AMR2638
NSP	57	PCB SUPPORT	AEC1013
	58	65 LABEL	ORW1069
	59	SCREW	ABA-298
	60	SCREW	ABA1009
	61	SCREW	ABA1018
	62	SCREW	ABA1053
	63	SCREW	ABA1082
	64	SCREW	BPZ26P080FMC
	65	SCREW	BPZ30P350FZK
	66	SCREW	FBT40P060FZK
	67	SCREW	VMZ30P060FCU
	68	CENTER PANEL(VSX-D703S)	AAK2570
	68	CENTER PANEL(VSX-D603S)	AAK2571
	69	DISPLAY PANEL(VSX-D703S)	AAK2573
	69	DISPLAY PANEL(VSX-D603S)	AAK2572
	70	IR FILTER(PLS)	AAK2575
	71	NAME PLATE(METAL)	AAM1058
	72	LED LENS(ABS)	PNW2019
	73	JOG DIAL(PLS)	AAB2224
	74	VOLUME KNOB(PLS)	AAB2225
	75	ROUND KNOB(PLS)	AAB2226
	76	FUNCTION BUTTON(PLS)	AAD2470

• Parts List
(For VSX-D903S/KU and VSX-53/KU/CA)

Mark	No.	Description	Part No.
NSP	1	TUNER ASSY	AWE1140
	2	POWER AMP ASSY	AWZ5402
	3	PRIM ASSY	AWZ5405
NSP	4	TRANS ASSY	AWZ5406
NSP	5	FRONT SP ASSY	AWZ5407
NSP	6	R.C.SP ASSY	AWZ5408
	7	REG ASSY(VSX-D903S)	AWZ5403
	7	REG ASSY(VSX-53)	AWZ5621
	8	POWER SUPPLY ASSY	AWZ5404
NSP	9	R.C.MUTE ASSY	AWZ5707
	10	VOL ASSY	AWZ5421
	11	AUDIO FUNCTION ASSY (VSX-D903S)	AWZ5416
	11	AUDIO FUNCTION ASSY (VSX-53)	AWZ5728
	12	A/V FUNCTION ASSY	AWZ5417
	13	VIDEO FUNCTION ASSY (VSX-D903S)	AWZ5418
	13	VIDEO FUNCTION ASSY (VSX-53)	AWZ5431
	14	CONNECTION ASSY(VSX-D903S)	AWZ5419
	14	CONNECTION ASSY(VSX-53)	AWZ5432
	15	TONE ASSY(VSX-D903S)	AWZ5420
	15	TONE ASSY(VSX-53)	AWZ5426
	16	• • • • •	
NSP	17	F.MUTE ASSY	AWZ5708
NSP	18	F.VIDEO ASSY	AWZ5435
	19	FL U-COM ASSY(VSX-D903S)	AWZ5434
	19	FL U-COM ASSY(VSX-53)	AWZ5438
	20	PROLOGIC•SFC MODULE	AXQ1029
NSP	21	SW ASSY	AWZ5412
NSP	22	SR & S.TERMINAL ASSY (VSX-D903S)	AWQ1024
NSP	22	SR & S.TERMINAL ASSY (VSX-53)	AWQ1026
NSP	23	GUI ASSY(VSX-D903S ONLY)	AWQ1025
⚠	24	Q4 TRANSISTOR	2SA1302
⚠	25	Q6 TRANSISTOR	2SA1302
⚠	26	Q7 TRANSISTOR	2SC3181N
⚠	27	Q1 TRANSISTOR	2SC3281
⚠	28	Q2 TRANSISTOR	2SC3281
⚠	29	Q5 TRANSISTOR	2SC3281
⚠	30	Q8 TRANSISTOR	2SA1264N
⚠	31	Q3 TRANSISTOR	2SA1302
	32	TERMINAL SCREW	AKE-031
⚠	33	FU5, FU6(1.6A, 125V)	AEK-121
⚠	34	FU3, FU4(4A, 125V)	AEK-125
⚠	35	FU1(10A, 125V)	AEK1035
⚠	36	AC POWER CORD	ADG1146
	37	J2 FLEXIBLE CABLE	ADD1134
	38	J1 FLEXIBLE FLAT CABLE	ADD1136
NSP	39	J3 SHIELD WIRE 5P	ADX2096
⚠	40	FAN MOTOR	AXM1022
NSP	41	CHASSIS(MTL)	ANA1480
	42	REAR PANEL(MTL)(VSX-D903S)	ANC2197
	77	SELF LIGHT BUTTON B(PLS)	AAD2472
	78	MUTE BUTTON(PLS)	AAD4047
	79	ASC BUTTON(PLS)	AAD4049
	80	TX BUTTON(PLS)	AAD4050
	81	SP BUTTON(PLS) (VSX-D703S ONLY)	AAD4051
	82	POWER BUTTON(PLS)	AAD4052
	83	OPERATING INSTRUCTIONS (ENGLISH)(VSX-D703S)	ARB1478
	83	OPERATING INSTRUCTIONS (ENGLISH)(VSX-D603S)	ARB1477
NSP	84	GUI MODE BUTTON (VSX-D603S ONLY)	AAD4053
	85	REMOTE CONTROL UNIT (CU-VSX080)(VSX-D703S)	AXD1393
	85	REMOTE CONTROL UNIT (CU-VSX084)(VSX-D603S)	AXD1385
	86	FM ANTENNA	ADH1004
NSP	87	ALKALINE(LR6, AA) (VSX-D703S)	AEX1007
NSP	88	ALKALINE(LR03, AAA) (VSX-D603S)	AEX1006
	89	FRONT PAD(PS)	AHA2005
	90	REAR PAD(PS)	AHA2006
	91	PACKING CASE(VSX-D703S)	AHD2756
	91	PACKING CASE(VSX-D603S)	AHD2753
	92	PACKING SHEET	AHG1021
	93	BONNET CASE(MTL)	ANE1525
	94	BATTERY COVER(VSX-D703S)	AZN2091
	94	BATTERY COVER(VSX-D603S)	AZN2256
	95	FRONT PANEL(VSX-D703S)	AMB2489
	95	FRONT PANEL(VSX-D603S)	AMB2488
⚠	96	TH1 THERMISTOR	NTH2218F
⚠	97	T1 POWER TRANSFORMER	ATS1545
NSP	98	CUT OFF RAYS SEAT	AED1160
	99	SCREW	ABA1009
	100	LOOP ANTENNA ASSY	ATB1005

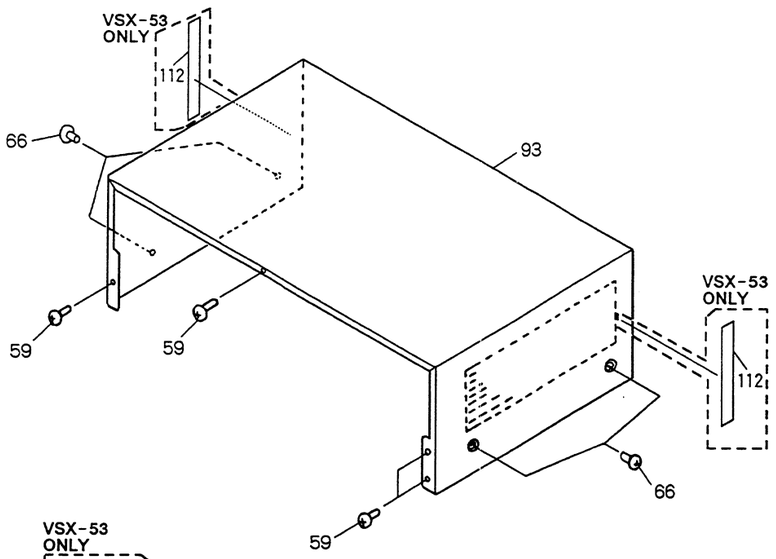
Mark	No.	Description	Part No.
	42	REAR PANEL(MTL)(VSX-53)	ANC2239
NSP	43	RADIATOR(AL)	ANH1494
	44	FOOT ASSY	AMR2414
	45	VOLUME HOLDER(MTL)	ANG1902
	46	L STYLE HOLDER(MTL)	ANG1903
	47	NYLON BINDER	AEC-093
NSP	48	PCB HOLDER	AEC1097
	49	PCB HOLDER	AEC1534
NSP	50	WIRE CLIP	AEC1535
	51	MICA SHEET	AEE1014
⚠	52	AC CORD STOPPER	AEP-113
	53	BINDER	AEP-215
	54	RIVET(PLASTIC)	AMR1066
NSP	55	PCB MOULD	AMR1525
	56	FAN HOLDER(PLS)	AMR2638
NSP	57	PCB SUPPORT	AEC1013
	58	65 LABEL	ORW1069
	59	SCREW	ABA-298
	60	SCREW(STEEL)	ABA1009
	61	SCREW	ABA1018
	62	SCREW(STEEL)	ABA1053
	63	SCREW	ABA1082
	64	SCREW	BPZ26P080FMC
	65	SCREW	BPZ30P350FZK
	66	SCREW(STEEL)	FBT40P060FZK
	67	SCREW	VMZ30P060FCU
	68	CENTER PANEL(PLS)	AAK2570
	69	DISPLAY PANEL(PLS) (VSX-D903S)	AAK2574
	69	DISPLAY PANEL(PLS)(VSX-53)	AAK2576
	70	IR FILTER(PLS)	AAK2575
	71	NAME PLATE(METAL)	AAM1058
	72	LED LENS	PNW2019
	73	JOG DIAL(PLS)	AAB2224
	74	VOLUME KNOB(PLS)	AAB2225
	75	ROUND KNOB	AAB2226
	76	FUNCTION BUTTON	AAD2470
	77	SELF LIGHT BUTTON B	AAD2472
	78	MUTE BUTTON(PLS)	AAD4047
	79	ASC BUTTON(PLS)	AAD4049
	80	TX BUTTON(PLS)	AAD4050
	81	SP BUTTON(PLS)	AAD4051
	82	POWER BUTTON(PLS)	AAD4052
	83	OPERATING INSTRUCTIONS (ENGLISH)(VSX-D903S)	ARB1489
	83	OPERATING INSTRUCTIONS (ENGLISH)(VSX-53)	ARB1490
	84	GUI MODE BUTTON(PLS)	AAD4048
	85	REMOTE CONTROL UNIT (CU-VSX079)(VSX-D903S)	AXD1394
	85	REMOTE CONTROL UNIT (CU-VSX080)(VSX-53)	AXD1393
	86	FM ANTENNA	ADH1004
NSP	87	ALKALINE(LR6, AA)LR6	AEX1007
	88	・・・・・	

Mark	No.	Description	Part No.
	89	FRONT PAD(PS)(VSX-D903S)	AHA2005
	89	FRONT PAD(PS)(VSX-53)	AHA2013
	90	REAR PAD(PS)(VSX-D903S)	AHA2006
	90	REAR PAD(PS)(VSX-53)	AHA2014
	91	PACKING CASE(VSX-D903S)	AHD2766
	91	PACKING CASE(VSX-53)	AHD2769
	92	PACKING SHEET	AHG1021
	93	BONNET CASE(MTL)	ANE1525
	94	BATTERY COVER	AZN2091
	95	FRONT PANEL(PLS) (VSX-D903S)	AMB2492
	95	FRONT PANEL(PLS)(VSX-53)	AMB2490
⚠	96	TH1 THERMISTOR	NTH2218F
⚠	97	T1 POWER TRANSFORMER	ATS1545
NSP	98	CUT OFF RAYS SEAT	AED1160
	99	SCREW(VSX-D903S)	ABA1009
	99	SCREW(VSX-53)	ABA1011
	100	LOOP ANTENNA ASSY	ATB1005
NSP	101	TUNER CASE(MTL) (VSX-D903S ONLY)	ANK1217
NSP	102	SPACER	AEC1288
NSP	103	SPACER(VSX-D903S ONLY)	AEC1360
⚠	104	R1 RESISTOR	ACN1111
	105	INSULATING PLATE	AMR2672
	106	SCREW	VMZ26P040FZK
	107	ESCUTCHEON(VSX-D903S ONLY)	AAK2585
	108	SELF-LIGHT RING (VSX-D903S ONLY)	AAK2586
	109	SIDE PLATE(RUB) (VSX-53 ONLY)	AAP1479
	110	SHIELD CASE A(MTL) (VSX-D903S ONLY)	ANG1926
	111	SCREW(VSX-53 ONLY)	ABA1148
NSP	112	SPACER(VSX-53 ONLY)	AEC1430
	113	SIDE PANEL L(PLS) (VSX-53 ONLY)	AMR2661
	114	SIDE PANEL R(PLS) (VSX-53 ONLY)	AMR2662
	115	SHIELD CASE B(MTL) (VSX-D903S ONLY)	ANG1927
⚠	116	LITHIUM BATTERY (VSX-D903S ONLY)	AEX1020

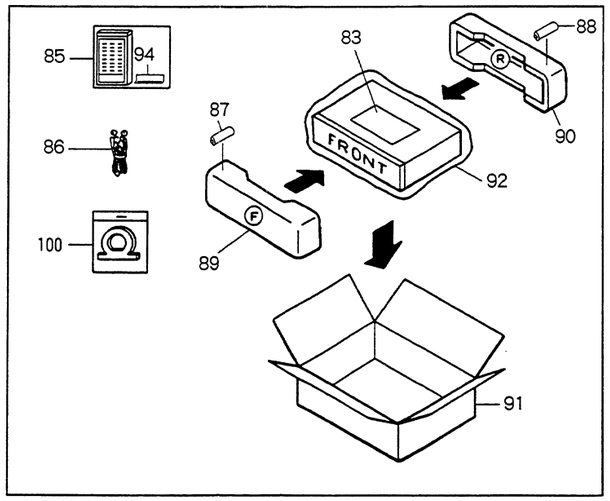
3.1 EXTERIOR AND PACKING

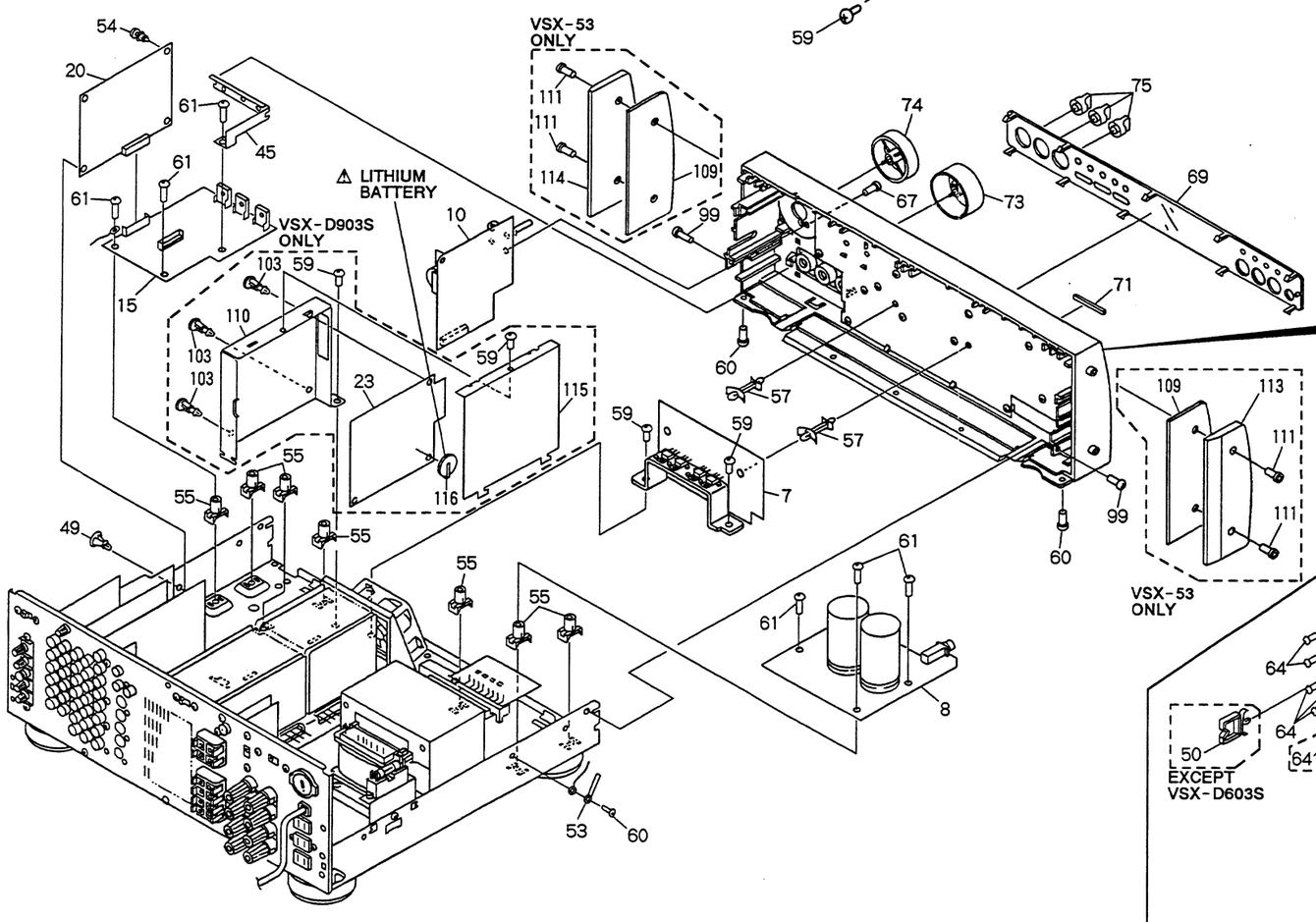
NOTE: Screws adjacent to ▼ mark on the product are used for disassembly.

The illustration is based on VSX-D903S.

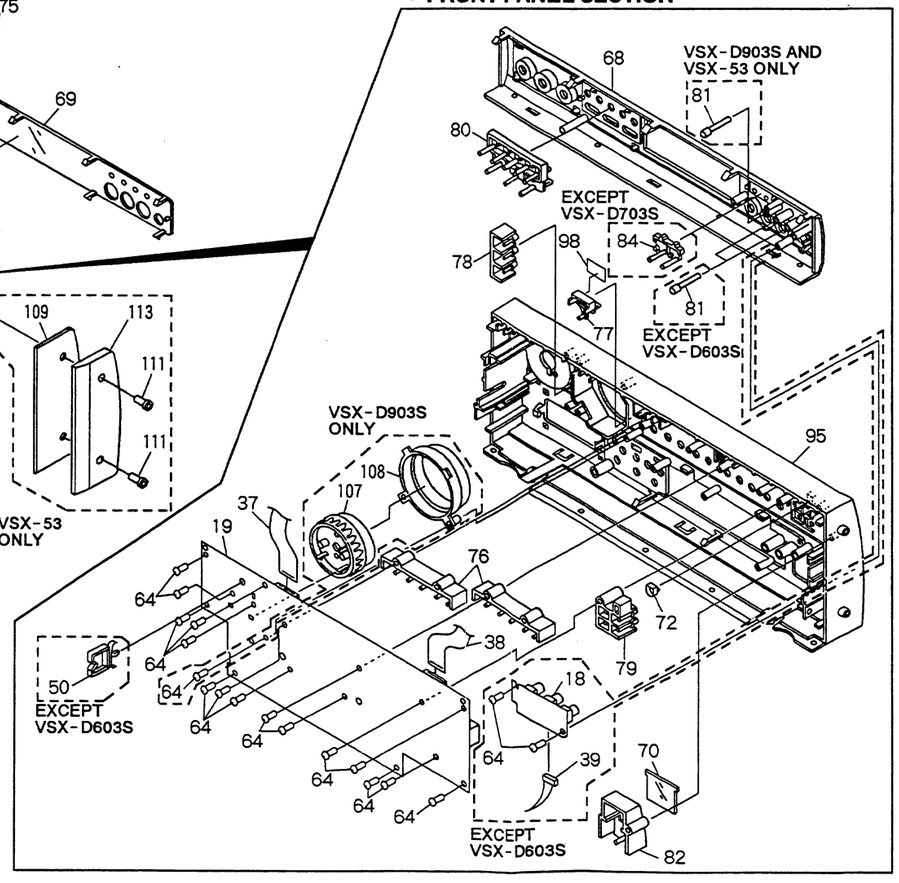


• PACKING



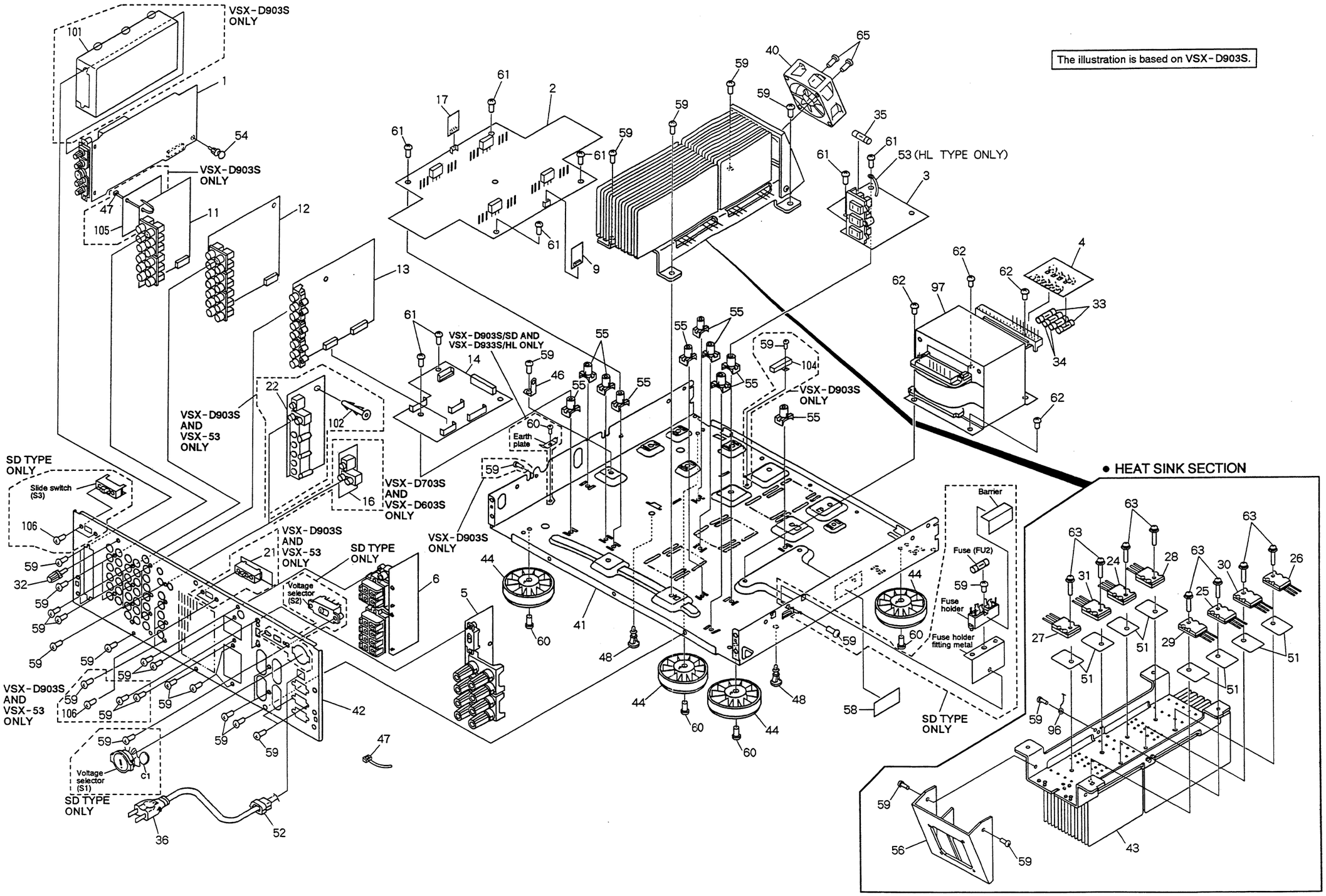


• FRONT PANEL SECTION



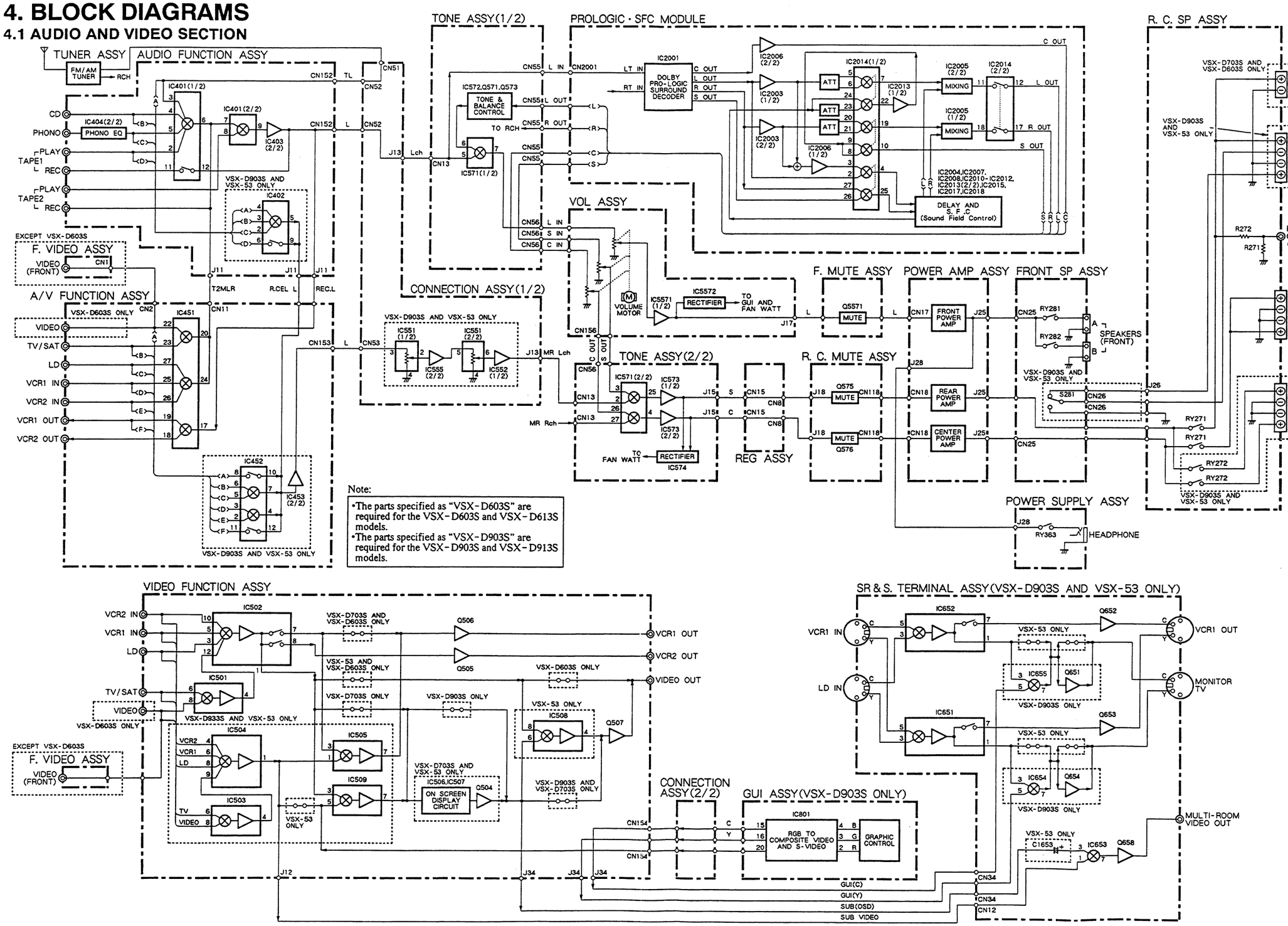
3.2 INTERIOR

The illustration is based on VSX-D903S.



4. BLOCK DIAGRAMS

4.1 AUDIO AND VIDEO SECTION



6. 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.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10¹ → 561 ..... RD1/8PM 5 6 1 J
47k Ω → 47 × 10³ → 473 ..... RD1/4PS 4 7 3 J
0.5 Ω → 0R5 ..... RN2H 0 R 5 K
1 Ω → 010 ..... RS1P 0 1 0 K

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

5.62k Ω → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

• FOR VSX-D703S/KU AND VSX-D603S/KU

Mark	No.	Description	Part No.
LIST OF ASSEMBLIES			
NSP		TUNER ASSY	AWE1140
NSP		POWER SUPPLY AMP ASSY	AWK1794
		├POWER AMP ASSY	AWZ5402
		├PRIM ASSY	AWZ5405
NSP		├TRANS ASSY	AWZ5406
NSP		├FRONT SP ASSY	AWZ5413
NSP		├R. C. SP ASSY	AWZ5414
		├REG ASSY	AWZ5415
		├POWER SUPPLY ASSY	AWZ5437
NSP		└R. C. MUTE ASSY	AWZ5707
NSP		SMALL SIGNAL ASSY(VSX-D703S)	AWK1797
NSP		SMALL SIGNAL ASSY(VSX-D603S)	AWK1799
		├VOL ASSY	AWZ5421
		├AUDIO FUNCTION ASSY	AWZ5422
		├A/V FUNCTION ASSY(VSX-D703S)	AWZ5423
		├A/V FUNCTION ASSY(VSX-D603S)	AWZ5429
		├VIDEO FUNCTION ASSY(VSX-D703S)	AWZ5424
		├VIDEO FUNCTION ASSY(VSX-D603S)	AWZ5430
		├CONNECTION ASSY(VSX-D703S)	AWZ5425
		├CONNECTION ASSY(VSX-D603S)	AWZ5428
		├TONE ASSY	AWZ5426
		├SR ASSY	AWZ5433
NSP		└F. MUTE ASSY	AWZ5708
NSP		FRONT ASSY(VSX-D703S)	AWK1802
NSP		FRONT ASSY(VSX-D603S)	AWK1803
NSP		├F. VIDEO ASSY(VSX-D703S ONLY)	AWZ5435
		├FL U-COM ASSY(VSX-D703S)	AWZ5605
		└FL U-COM ASSY(VSX-D603S)	AWZ5436
		PROLOGIC•SFC MODULE	AXQ1024

• FOR VSX-D903S/KU AND VSX-53/KU/CA

Mark	No.	Description	Part No.
LIST OF ASSEMBLIES			
NSP		TUNER ASSY	AWE1140
NSP		POWER SUPPLY AMP ASSY(VSX-D903S)	AWK1789
NSP		POWER SUPPLY AMP ASSY(VSX-53)	AWK1839
		├POWER AMP ASSY	AWZ5402
		├REG ASSY(VSX-D903S)	AWZ5403
		├REG ASSY(VSX-53)	AWZ5621
		├POWER SUPPLY ASSY	AWZ5404
		├PRIM ASSY	AWZ5405
NSP		├TRANS ASSY	AWZ5406
NSP		├FRONT SP ASSY	AWZ5407
NSP		├R. C. SP ASSY	AWZ5408
NSP		├SW ASSY	AWZ5412
NSP		└R. C. MUTE ASSY	AWZ5707
NSP		SMALL SIGNAL ASSY(VSX-D903S)	AWK1796
NSP		SMALL SIGNAL ASSY(VSX-53)	AWK1800
		├AUDIO FUNCTION ASSY(VSX-D903S)	AWZ5416
		├AUDIO FUNCTION ASSY(VSX-53)	AWZ5728
		├A/V FUNCTION ASSY	AWZ5417
		├VIDEO FUNCTION ASSY(VSX-D903S)	AWZ5418
		├VIDEO FUNCTION ASSY(VSX-53)	AWZ5431
		├CONNECTION ASSY(VSX-D903S)	AWZ5419
		├CONNECTION ASSY(VSX-53)	AWZ5432
		├TONE ASSY(VSX-D903S)	AWZ5420
		├TONE ASSY(VSX-53)	AWZ5426
		├VOL ASSY	AWZ5421
NSP		└F. MUTE ASSY	AWZ5708
NSP		FRONT ASSY(VSX-D903S)	AWK1801
NSP		FRONT ASSY(VSX-53)	AWK1804
		├FL U-COM ASSY(VSX-D903S)	AWZ5434
		├FL U-COM ASSY(VSX-53)	AWZ5438
NSP		└F. VIDEO ASSY	AWZ5435
NSP		SR & S. TERMINAL ASSY(VSX-D903S)	AWQ1024
NSP		SR & S. TERMINAL ASSY(VSX-53)	AWQ1026
NSP		GUI ASSY(VSX-D903S ONLY)	AWQ1025
		PROLOGIC•SFC MODULE	AXQ1029

Mark	No.	Description	Part No.

TUNER ASSY (AWE1140)

SEMICONDUCTORS

	IC451	AN7470P
	IC431	LA1265S
	IC471	LM7001
	Q454	2SA933S
	Q452, Q453	2SC1740S
	Q472	2SC1740SLN
	Q451	2SC2603
	Q403, Q421	2SC2668
	Q402	2SC2786
	Q405	2SK161
	Q401	2SK241
	Q471	2SK246
	Q473, Q474	RN2201
	D431-D435	1SS252
	D401-D403	1SV147

COILS, FILTERS AND TRANSFORMER

	L401	ATC1001
	L402	ATC1002
	L405	ATC1003
	L403	ATC1004
	L404	ATC1005
	T402	ATE-063
	L431	ATE-079
	F421	ATF-107
	F422	ATF-119
	F431	ATF-208
	L406, L407	LAU2R2M

CAPACITORS

	C454 (470pF, 50V)	ACE1039
	C466	CCCSL121J50
	C417	CCDCH010C50
	C406	CCDCH020C50
	C415	CCDCH080D50
	C413, C481, C482	CCDCH150J50
	C414	CCDCH330J50
	C401, C404, C405	CCDRH330J50
	C402	CCDRH390J50
	C416	CCDTH180J50
	C479	CCPUSL220J50
	C445	CCPUSL470J50
	C452	CEANP4R7M35
	C442	CEAS0R1M50
	C420, C437, C475	CEAS100M50
	C451	CEAS101M16
	C456	CEAS1R5M50
	C438	CEAS2R2M50
	C443, C455	CEAS3R3M50
	C458, C463, C464, C484	CEAS470M16
	C433, C461, C462	CEAS4R7M50
	C457	CEASR22M50
	C478	CFTXA224J50
	C477	CKCYF103Z50
	C439, C440	CKCYF223Z50

Mark	No.	Description	Part No.
	C435		CKCYF472Z50
	C453		CKCYF473Z50
	C436		CKCYX683M25
	C400		CKDYF102Z50
	C409, C483		CKPUYB101K50
	C444		CKPUYB331K50
	C441, C472		CKPUYF223Z25
	C403, C410-C412, C418, C419		CKPUYY103N16
	C421, C422, C465, C471, C473		CKPUYY103N16
	C476, C480, C485		CKPUYY103N16
	C459, C460		CQMA102J50
	C468, C469		CQMA182J50
	C446, C447		CQMA561K50

RESISTORS

	VR451 (4.7kΩ)	ACP1042
	VR431 (10kΩ)	ACP1043
	VR432	VRTS6VS153
	Other Resistors	RD1/8PM□□□J

OTHERS

	ANTENNA TERMINAL 4-P	AKA1014
	X471 CRYSTAL RESONATOR(7.200MHz)	ASS1005
	X431 CERAMIC FILTER	ATF-125
	AM RF TUNING BLOCK	AXX1011
	CN401 12P SOCKET	KP200IA12L

POWER AMP ASSY (AWZ5402)

SEMICONDUCTORS

	Q107, Q108, Q164	2SA1145
	Q103, Q104, Q162, Q201	2SA1240
	Q115, Q116, Q168, Q205	2SA1837
	Q105, Q106, Q163	2SA970
	Q101, Q102, Q161	2SC1845
	Q117, Q118, Q169, Q206	2SC2240
	Q111, Q112, Q166, Q203	2SC2603
	Q109, Q110, Q165, Q202	2SC2705
	Q113, Q114, Q167, Q204	2SC4793
	D101-D108, D111-D114	HSS104-02
	D117-D122, D161-D164	HSS104-02
	D166, D167, D169-D171	HSS104-02
	D204-D206	HSS104-02
	D201	RD10ESB
	D202, D203	RD4.3ESB
	D109, D110, D115, D116, D165	RD8.2ESB2
	D168	RD8.2ESB2

COILS

	L101, L102, L161, L201 (0.7μH)	ATH1004

CAPACITORS

	C117, C118, C169	CCCSL050C500
	C105-C108, C163, C164	CCCSL101J50
	C212, C213	CCCSL101K500
	C113, C114	CCCSL150K500
	C121-C124, C171, C172	CCCSL151K500
	C167, C208	CCCSL220K500
	C204, C205	CCCSL470J50
	C129, C130, C175	CEANP010M50
	C216	CEANP2R2M50
	C201, C202	CEAS2R2M50

Mark	No.	Description	Part No.
	C111, C112, C166, C207		CEAS470M16
	C210		CEAS470M25
	C161		CEAS4R7M50
	C125, C126, C173, C214		CFTXA473J50
	C119, C120, C170, C211		CKCYB102K50
	C162		CKCYB122K50
	C203		CKCYB222K50
	C103, C104		CKCYB471K50
	C109, C110, C165, C206		CQMA392J50
RESISTORS			
	R145, R146, R183, R222 (0.33Ω, 5W)		ACN1087
	R115, R116, R168, R207		RD1/4PM152J
	R117, R118, R169, R208		RD1/4PM473J
	R147, R148, R151, R152, R184		RD1/4PMF100J
	R186, R223, R229		RD1/4PMF100J
	R129-R136, R175-R178		RD1/4PMF101J
	R214-R217		RD1/4PMF101J
	R153-R156, R187, R188		RD1/4PMF222J
	R225, R226		RD1/4PMF222J
	R139-R142, R180, R181		RD1/4PMF4R7J
	R220, R221		RD1/4PMF4R7J
	R121, R122, R171		RD1/4PMF680J
	R111-R114, R166, R167		RFA1/4PS391J
	R127, R128, R174, R210		RFA1/4PS470J
	R137, R138, R143, R144, R179		RFA1/4PS4R7J
	R182, R218, R219		RFA1/4PS4R7J
	Other Resistors		RD1/8PM□□□J
OTHERS			
		CABLE HOLDER(3P)	AKT1076
		CABLE HOLDER(8P)	AKT1081
		CABLE HOLDER(9P)	AKT1082
	CN17, CN18	7P PLUG	KM200IB7

PRIM ASSY (AWZ5405)

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC51		NJM78M56FAS
	Q51		XDC143ES
	D51		HSS104-02
	D54		HZS6A1L
	D53		S1WB20
	D52		S5566
COIL			
⚠	L51		ATF1006
TRANSFORMER			
⚠	T51		ATT1011
RELAY			
⚠	RY51		ASR1036
CAPACITORS			
⚠	C51, C52 (0.01μ, AC400V)		ACG1002
	C53		CEAS102M25
	C55		CEAS470M16
	C54		CKCYB103K50

Mark	No.	Description	Part No.
RESISTORS			
⚠	R52 (2.2MΩ, 1/2W)		ACN-208
⚠	R53		RD1/4PMF332J
⚠	R51		RD1/4PMF4R7J
	Other Resistors		RD1/8PM□□□J
OTHERS			
		AC OUTLET(3P)	AKP1053
	CN22	CONNECTOR(4P)	KPC4

TRANS ASSY (AWZ5406)

Mark	No.	Description	Part No.
RESISTORS			
⚠	R379, R380		RFA1/4PL4R7J
OTHERS			
		CABLE HOLDER(8P)	AKT1081

FRONT SP ASSY (AWZ5413)

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	Q281, Q282		XDC143ES
	D281, D282		HSS104-02
RELAYS			
	RY281, RY282		ASR-112
RESISTORS			
	R281, R282		RS1PMF821J
OTHERS			
	CN8004	SPEAKER TERMINAL 8-P	AKE1048
	CN26	CONNECTOR(4P)	KPC4
	CN25	CONNECTOR(8P)	KPC8
	CN27	CONNECTOR(4P)	KPE4
	CN24	CONNECTOR(6P)	KPE6

R. C. SP ASSY (AWZ5414)

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	Q271		XDC143ES
	D271		HSS104-02
RELAY			
	RY271		ASR-112
RESISTORS			
	R273		RS1PMF821J
	Other Resistors		RD1/8PM□□□J
OTHERS			
	CN8007	PIN JACK 1-P	AKB1139
		SPEAKER TERMINAL 4-P	AKE-109
	CN8016	SPEAKER TERMINAL 2-P	AKE1041
		CABLE HOLDER(4P)	AKT1077

Mark	No.	Description	Part No.

REG ASSY (AWZ5415)

SEMICONDUCTORS

	IC251	NJM78M12FAS
	IC252	NJM79M12FA
	Q256, Q257, Q261	2SA1048
	Q258	2SC2458
	Q251	2SC4793
	Q253, Q260	2SD438
	Q254, Q255, Q259	XDA124ES
	D257	HZS22-3L
	D260	HZS6B2L
	D258, D261	RD13ESB3
	D251-D254	S5566

CAPACITORS

	C251 (0.01 μ, AC250V)	ACG1005
	C259, C260, C262	CEAS101M25
	C261	CEAS102M16
	C253	CEAS102M35
	C252	CEAS222M35
	C255, C266	CEAS470M25
	C256-C258	CKCYF103Z50

RESISTORS

	R256	RD1/4PMF122J
	R251	RFA1/4PS470J
	R286	RS1PMF100J
	R261	RS1PMF121J
	R253	RS1PMF220J
	R276	RS2LMF151J
	R254, R255, R283	RS2LMF180J
	R252	RT5PD180K
	Other Resistors	RD1/8PM□□□J

OTHERS

	SCREW	ABA-298
CN15, CN19	CONNECTOR(10P)	KPC10
CN8018	CONNECTOR(4P)	KPC4
CN201	CONNECTOR(3P)	KPE3

Mark	No.	Description	Part No.

POWER SUPPLY ASSY (AWZ5437)

SEMICONDUCTORS

	Q366	2SA1515
	Q362, Q364, Q365, Q368	2SC2458
	Q367	XDA143ES
	Q363	XDC124ES
	Q361	XDC143ES
	D362	D3SBA20
	D351, D352	D5SB20F
	D361, D366, D369	HSS104-02
	D367	HZS5BLL
	D365	RD6.2ESB
	D363, D364	S5566

RELAYS

	RY361, RY362	ASR1027
	RY363	ASR1035

CAPACITORS

	C351, C352, C361 (0.01 μ, AC250V)	ACG1005
	C362, C363 (5600 μ, 50V)	ACH1145
	C353 (12000 μ, 80V)	ACH1263
	C354 (12000 μ, 80V)	ACH1264
	C367	CEAS101M35
	C364	CEAS220M50
	C365	CEAS221M16
	C366	CEAS330M25
	C368	CKCYF103Z50

RESISTORS

	R362	RD1/2PMF102J
	R366	RD1/4PMF2R2J
	R368	RD1/4PMF822J
	R361	RS1PMF471J
	R372	RS1PMF821J
	R373, R374	RS2LMF331J
	Other Resistors	RD1/8PM□□□J

OTHERS

	HEADPHONE JACK	AKN1002
CN20	18P SOCKET	AKP1102
	CABLE HOLDER(3P)	AKT1076
	CABLE HOLDER(4P)	AKT1077
	CABLE HOLDER(9P)	AKT1082
	CABLE HOLDER(10P)	AKT1083
CN23	JUMPER CONNECTOR(8P)	KPC8

R. C. MUTE ASSY (AWZ5707)

SEMICONDUCTORS

	Q575, Q576	2SC2878

RESISTORS

	All Resistors	RD1/8PM□□□J

OTHERS

	CABLE HOLDER (4P)	AKT1077
CN118	7P SOCKET	KP200IB7L

Mark	No.	Description	Part No.

VOL ASSY (AWZ5421)

SEMICONDUCTORS

	IC5571		M5220P
	IC5573		TA8409S
	IC5572		XRA4558N-P
	Q5591		2SA1115
	Q5573		XDC124ES
	D5571-D5574		HSS104-02
	D5578		RD3.3ESB2
	D5579		RD5.1ESB1
	D5575, D5576		RD5.1ESB2

CAPACITORS

	C5573, C5574		CCCCH330J50
	C5579		CEANP101M10
	C5581-C5583		CEAS100M50
	C5580		CEAS101M16
	C5571, C5572, C5575, C5576		CEAS4R7M50
	C5577, C5578		CEASR47M50

RESISTORS

	R5593		RD1/2PM470J
	R5596, R5597		RD1/4PM221J
	R5595		RD1/4PM561J
	R5592		RD1/4PM621J
	VR5571		ACX1095
	Other Resistors		RD1/8PM□□□J

OTHERS

		CABLE HOLDER(4P)	AKT1077
	CN156	15P SOCKET	KP200IB15L
	CN16	CONNECTOR(5P)	KPE5

AUDIO FUNCTION ASSY (AWZ5422)

SEMICONDUCTORS

	IC404		M5220P
	IC401		TC9164N
	IC403		XRA4558-P

CAPACITORS

	C447		CCSQCH102J50
	C419, C420		CCSQCH221J50
	C417, C418		CCSQCH681J50
	C423, C424		CCSQSL101J50
	C415, C416		CEAS100M50
	C431, C432		CEAS101M16
	C433, C434, C439, C440		CEAS2R2M50
	C421, C422		CEAS470M25
	C445, C446		CEAS4R7M50
	C435, C436		CKSQYB103K50
	C1400, C429, C430, C441, C444		CKSQYF103Z50
	C427, C428		CQMA242J50
	C425, C426		CQMA822J50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

		PIN JACK(6P)	AKB1121
	CN8207	PIN JACK(6P)	AKB1129
		CABLE HOLDER(11P)	AKT1084
	CN152	13P SOCKET	KP200IB13L

Mark	No.	Description	Part No.

A/V FUNCTION ASSY (AWZ5423 and AWZ5429)

SEMICONDUCTOR

	IC451		TC9163N

CAPACITORS

	C487		CCSQCH102J50
	C481, C482		CEAS470M25
	C475, C476		CKSQYB103K50
	C1450, C483, C484		CKSQYF103Z50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

		PIN JACK(4P) (AWZ5423 ONLY)	AKB1101
		PIN JACK(4P)	AKB1124
	CN2	PLUG 3-P (AWZ5423 ONLY)	KM250MA3L
	CN153	10P SOCKET	KP200IB10L
	CN11	L-CONNECTOR(11P)	KPD11L
	CN98	PIN JACK(6P)(AWZ5429 ONLY)	AKB1129

VIDEO FUNCTION ASSY (AWZ5424)

SEMICONDUCTORS

	IC502		LA7951
	IC507		M50554-003SP
	IC1502		M66320FP
	IC506		MM1067XD
	IC501		NJM2233BLA
	IC1503		UPC78L05J
	Q504		2SA1048
	Q505-Q507		2SA1115
	Q508		2SC2412K
	Q503		2SC2458
	Q501, Q502, Q510		XDC124ES
	D505, D506		1SS352
	D501, D502		HSS104-02

COILS

	L506		LAU150J
	L507, L508		LAU270J
	L501, L502, L509-L511		LAU680J

CAPACITORS

	TC501		ACM-020
	C558, C559, C562		CCSQCH050C50
	C540, C546		CCSQCH101J50
	C1526		CCSQCH102J50
	C542, C544		CCSQCH150J50
	C549, C551		CCSQCH220J50
	C535		CCSQCH221J50
	C543		CCSQCH330J50
	C1529		CCSQCH331J50
	C534		CCSQCH471J50
	C532		CCSQCH561J50
	C526, C530, C531		CEAS010M50
	C527, C547		CEAS100M50
	C1506		CEAS101M10
	C507		CEAS101M16

Mark	No.	Description	Part No.
	C537		CEAS2R2M50
	C501-C506, C509, C511, C538		CEAS470M25
	C552, C553, C557		CEAS470M25
	C563		CEAS471M10
	C560, C561		CEAS471M6
	C536		CEASR47M50
	C1524		CEJA100M16
	C1505, C545		CKSQYB102K50
	C533		CKSQYB332K50
	C1507, C1521, C508, C510, C528		CKSQYF103Z50
	C539, C548, C550, C554-C556		CKSQYF103Z50
	C541		CKSQYF104Z50
	C529		CKSQYF473Z50
RESISTORS			
	R541, R542		RD1/2PM331J
	R548		RD1/2PM271J
	R1504		RD1/4PM680J
	Other Resistors		RS1/10S□□□J
OTHERS			
	CN8111	PIN JACK(2P)	AKB1118
		PHONO JACK 2-P	AKB1134
	CN6	3P RCA PINJACK	AKB1143
	X502	CRYSTAL RESONATOR (14.31818MHz)	ASS1056
	X501	CERAMIC RESONATOR(503kHz)	ASS1112
	CN3	PLUG 3-P	KM250MA3L
	CN154	16P SOCKET	KP200IB16L
	CN199	9P SOCKET	KP200IB9L

VIDEO FUNCTION ASSY (AWZ5430)

SEMICONDUCTORS		
	IC502	LA7951
	IC1502	M66320FP
	IC501	NJM2233BLA
	IC1503	UPC78L05J
	Q505, Q506	2SA1115
	Q508	2SC2412K
COILS		
	L501, L502, L509, L510	LAU680J
CAPACITORS		
	C558, C559	CCSQCH050C50
	C1526	CCSQCH102J50
	C1506	CEAS101M10
	C507	CEAS101M16
	C501-C506, C509, C511	CEAS470M25
	C552, C553	CEAS470M25
	C563	CEAS471M10
	C560, C561	CEAS471M6
	C1505	CKSQYB102K50
	C1507, C1521, C508, C510	CKSQYF103Z50
	C554, C555	CKSQYF103Z50
RESISTORS		
	R541, R542	RD1/2PM331J
	R1504	RD1/4PM680J
	Other Resistors	RS1/10S□□□J

Mark	No.	Description	Part No.
OTHERS			
		PHONO JACK 2-P	AKB1134
	CN6, CN8111	3P RCA PINJACK	AKB1143
	CN154	12P SOCKET	KP200IB12L
	CN199	9P SOCKET	KP200IB9L

CONNECTION ASSY (AWZ5425 and AWZ5428)

SEMICONDUCTORS			
	D552		HSS104-02
	D551		RD5.1ESB2
CAPACITORS			
	C2551		CCSQCH102J50
	C1551		CEAS101M16
	C1552		CEAS470M25
RESISTORS			
	R552		RD1/2PM181J
OTHERS			
	CN114	SOCKET(27P)	AKP1099
	CN51	12P PLUG	KM200IB12
	CN52	13P PLUG	KM200IB13
	CN54	16P PLUG (AWZ5425)	KM200IB16
	CN54	12P PLUG (AWZ5428)	KM200IB12
	CN99	9P PLUG	KM200IB9
	CN53	10P PLUG	KM200IB10

TONE ASSY (AWZ5426)

SEMICONDUCTORS		
	IC573	M5220P
	IC571	TC9162N
	IC572, IC574	XRA4558N-P
	Q577	2SA1115
	Q571-Q574	2SC2458
	D571-D574, D577-D580	HSS104-02
	D575, D576	RD5.1ESB2
CAPACITORS		
	C591, C592	CCSQCH151J50
	C573, C574	CEAS010M50
	C585, C586, C589, C590	CEAS100M50
	C599, C600	CEAS100M50
	C571, C572, C587, C588	CEAS4R7M50
	C593, C594	CEAS4R7M50
	C577, C578, C595, C596	CEASR47M50
	C575, C576	CFTXA154J50
	C579, C580	CFTXA473J50
	C605	CKDYF103Z50
	C583, C584	CKPUYB151K50
	C597, C598	CKSQYB103K50
	C601	CKSQYB471K50
	C581, C582	CQMA153J50

Mark	No.	Description	Part No.
RESISTORS			
	R627, R628		RD1/4PM221J
	R1597		RS1/10S000J
	R622-R624		RS1/10S102J
	R575, R576, R629, R630		RS1/10S104J
	R605, R606		RS1/10S223J
	R601, R602		RS1/10S473J
	R603, R604		RS1/10S562J
	VR573 (10kΩ×2)		ACS1029
	VR571, VR572 (30kΩ×2)		ACS1115
	Other Resistors		RD1/8PM□□□J
OTHERS			
		CABLE HOLDER(10P)	AKT1083
	CN55, CN56	15P PLUG	KM200IB15
	CN13	CONNECTOR(15P)	KPE15

SR ASSY (AWZ5433)

SEMICONDUCTORS			
	Q656, Q657		2SA1048
	Q655		2SC2458
	D651-D653, D655-D657		HSS104-02
	D654		RD5.1ESB
RESISTORS			
	All Resistors		RS1/10S□□□J
OTHERS			
	CN651	2P MINI JACK	AKN1006
		MINI JACK	AKN1020
	CN12	CONNECTOR(9P)	KPE9

F. MUTE ASSY (AWZ5708)

SEMICONDUCTORS			
	Q5571, Q5572		2SC2878
CAPACITORS			
	C101, C102		CEAS4R7M50
RESISTORS			
	All Resistors		RD1/8PM□□□J
OTHERS			
		CABLE HOLDER(4P)	AKT1077
	CN117	7P SOCKET	KP200IB7L

F. VIDEO ASSY (AWZ5435)

CAPACITOR			
	C710		CKCYX104M16
RESISTORS			
	All Resistors		RD1/8PM□□□J
OTHERS			
		PIN JACK(1P)	AKB1082
	CN1	PLUG 5-P	KM250MA5

Mark	No.	Description	Part No.
FL U-COM ASSY (AWZ5605 and AWZ5436)			
SEMICONDUCTORS			
	IC701		PDG117B
	Q702, Q703, Q705-Q707		2SC2458
	Q701		XDC124ES
	D735, D736		AEL1100
	D734		AEL1151
	D701-D710, D715, D716		HSS104-02
	D721, D722, D727, D728, D733		HSS104-02
	D740-D743, D761, D763		HSS104-02
COIL			
	L701		LAU220K
SWITCHES			
	S701-S714, S716, S717, S719, S720		ASG1034
	S722, S723, S725, S726, S728-S732		ASG1034
	S715, S718 (AWZ5605 ONLY)		ASG1034
	S724, S727 (AWZ5436 ONLY)		ASG1034
	S733		ASX1015
CAPACITORS			
	C707 (47μ, 5.5V)		ACH1246
	C704, C706		CEAS010M50
	C702		CEAS101M10
	C708		CEAS470M50
	C701		CEJA010M50
	C705, C709		CKCYX473M25
	C703		CKPUYF473Z16
RESISTORS			
	R743		RD1/4PM221J
	Other Resistors		RD1/8PM□□□J
OTHERS			
	V701	FL TUBE	AAV1196
	CN14	SOCKET(27P)	AKP1100
	CN20	18P SOCKET	AKP1106
	X701	CERAMIC RESONATOR (8.00MHz)	ASS1015
		REMOTE RECEIVER UNIT	AXX1023

PROLOGIC • SFC MODULE (AXQ1024)

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC2001		LA2785
	IC2007		LC32464M-80
	IC2008, IC2018		LC78835M
	IC2003-IC2006, IC2010, IC2011, IC2013		NJM4558M-D
	IC2017		NJM4558M-D
	IC2019		NJM78M05FAS
	IC2002		NJM78M09FAS
	IC2012		PDC017C
	IC2015		PDC018A
	IC2014		TC9162N
	Q2001		2SA1162
	Q2002		DTC124EK
	D2001, D2002, D2004		1SS226
COILS			
	L2004, L2006, L2010, L2014		ATX1008
	L2013, L2015		LCTAR22J3225
	L2003, L2005		LTA102J
	L2011, L2012		LTA473J
CAPACITORS			
	C2168		CCSQCH040C50
	C2084, C2085		CCSQCH080D50
	C2036, C2108, C2113		CCSQCH101J50
	C2041, C2042		CCSQCH102J50
	C2164, C2167		CCSQCH150J50
	C2163		CCSQCH470J50
	C2043, C2044, C2080, C2081		CCSQCH471J50
	C2082, C2083		CCSQCH680J50
	C2018, C2021		CEANL3R3M50
	C2014, C2016, C2023, C2025		CEANL4R7M50
	C2122, C2126		CEANP101M16
	C2072, C2073		CEAS010M50
	C2047, C2048, C2053, C2058, C2064		CEAS100M50
	C2102, C2104, C2106, C2130, C2135		CEAS100M50
	C2060, C2066, C2153		CEAS101M10
	C2105		CEAS220M16
	C2068, C2069		CEAS220M25
	C2037, C2166		CEAS221M10
	C2003, C2008, C2123, C2127		CEAS221M16
	C2051, C2052, C2054, C2067, C2103		CEAS2R2M50
	C2076, C2077		CEAS330M16
	C2039		CEAS331M16
	C2029, C2056, C2092		CEAS470M10
	C2112		CEAS470M25
	C2138		CEAS471M10
	C2004-C2007, C2009, C2010		CEJA100M16
	C2032-C2034		CEJA100M16
	C2013, C2015, C2024, C2026		CEJAR47M50
	C2011, C2012, C2027, C2028		CFTXA104J50
	C2019, C2020		CFTXA154J50
	C2030		CFTXA474J50
	C2017, C2022		CFTYA154J50
	C2070, C2071, C2097		CKSQYB102K50
	C2078, C2079, C2086, C2087		CKSQYB103K50
	C2090, C2091, C2111		CKSQYB103K50
	C2158, C2159, C2161, C2162		CKSQYB104K25
	C2140-C2142		CKSQYB182K50
	C2045, C2046, C2100		CKSQYB222K50
	C2101		CKSQYB471K50
	C2074, C2075, C2095, C2110, C2155		CKSQYB472K50
	C2055, C2057, C2089, C2093, C2165		CKSQYB473K25
	C2038, C2040, C2154		CKSQYB473K50
	C2031, C2059, C2061, C2062, C2065		CKSQYF104Z50
	C2096, C2107, C2109, C2129, C2134		CKSQYF104Z50
	C2136		CKSQYF104Z50
	C2001		CQMA223J50
	C2002		CQMA473J50
	C2035		CQMA681J50
RESISTORS			
	R2148		RD1/2PMFL4R7J
	Other Resistors		RS1/10S□□□J
OTHERS			
	X2002 CERAMIC RESONATOR(4.19MHz)		ASS1018
	X2001 CRYSTAL RESONATOR(22.5792MHz)		ASS1114
	CN2001 15P SOCKET		KP200IB15L

REG ASSY (AWZ5403 and AWZ5621)

SEMICONDUCTORS		
	IC251	NJM78M12FAS
	IC252	NJM79M12FA
	Q256, Q257, Q261	2SA1048
	Q258	2SC2458
	Q251	2SC4793
	Q252(AWZ5403 ONLY)	2SC4793
	Q253, Q260	2SD438
	Q254, Q255, Q259	XDA124ES
	D257	HZS22-3L
	D260	HZS6B2L
	D259(AWZ5403 ONLY)	HZS6C2L
	D258, D261	RD13ESB3
	D251-D254	S5566
	D255, D256(AWZ5403 ONLY)	S5566
CAPACITORS		
	C251 (0.01μ, AC250V)	ACG1005
	C259, C260, C262	CEAS101M25
	C265(AWZ5403 ONLY)	CEAS101M25
	C261	CEAS102M16
	C253	CEAS102M35
	C254(AWZ5403 ONLY)	CEAS102M35
	C252	CEAS222M35
	C255, C266	CEAS470M25
	C264(AWZ5403 ONLY)	CEAS471M10
	C256-C258	CKCYF103Z50
	C263(AWZ5403 ONLY)	CKCYF103Z50
RESISTORS		
	R259(AWZ5403 ONLY)	RD1/4PMF272J
	R256	RD1/4PMF751J
	R251	RFA1/4PS470J
	R286	RS1PMF100J
	R261	RS1PMF121J

Mark	No.	Description	Part No.
	R253		RS1PMF220J
	R276		RS2LMF151J
	R284(AWZ5621 ONLY)		RT5PD100K
	R252		RT5PD180K
	R257(AWZ5403 ONLY)		RT5PD470K
	Other Resistors		RD1/8PM□□□J
OTHERS			
		SCREW(AWZ5403 ONLY)	ABA-298
	CN15, CN19	CONNECTOR(10P)	KPC10
	CN8018	CONNECTOR(4P)	KPC4
	CN201	CONNECTOR(3P)	KPE3
	CN36	CONNECTOR(3P) (AWZ5403 ONLY)	KPE3

POWER SUPPLY ASSY (AWZ5404)

SEMICONDUCTORS		
	Q366	2SA1515
	Q362, Q364, Q365, Q368	2SC2458
	Q367	XDA143ES
	Q363	XDC124ES
	Q361	XDC143ES
	D362	D3SBA20
	D351, D352	D5SB20F
	D361, D366, D369	HSS104-02
	D367	HZS5BLL
	D365	RD6.2ESB
	D363, D364	S5566
RELAYS		
	RY361, RY362	ASR1027
	RY363	ASR1035
CAPACITORS		
	C351, C352, C361 (0.01 μ, AC250V)	ACG1005
	C362, C363 (5600 μ, 50V)	ACH1145
	C353 (12000 μ, 80V)	ACH1263
	C354 (12000 μ, 80V)	ACH1264
	C367	CEAS101M35
	C364	CEAS220M50
	C365	CEAS221M16
	C366	CEAS330M25
	C368	CKCYF103Z50
RESISTORS		
	R362	RD1/2PMF102J
	R366	RD1/4PMF2R2J
	R368	RD1/4PMF822J
	R361	RS1PMF471J
	R372	RS1PMF821J
	R373, R374	RS2LMF331J
	Other Resistors	RD1/8PM□□□J
OTHERS		
		JACK AKN1002
	CN20	18P SOCKET AKP1102
		CABLE HOLDER(3P) AKT1076
		CABLE HOLDER(4P) AKT1077
		CABLE HOLDER(9P) AKT1082
		CABLE HOLDER(10P) AKT1083
		JUMPER CONNECTOR KPC8

Mark	No.	Description	Part No.

FRONT SP ASSY (AWZ5407)

SEMICONDUCTORS		
	Q281, Q282	XDC143ES
	D281, D282	HSS104-02
SWITCH AND RELAYS		
	S281	AKX1033
	RY281, RY282	ASR-112
RESISTORS		
	R281, R282	RS1PMF821J
OTHERS		
		SPEAKER TERMINAL 8-P AKE1011
	CN26	CONNECTOR(7P) KPC7
	CN25	JUMPER CONNECTOR KPC8
	CN27	CONNECTOR(4P) KPE4
	CN24	CONNECTOR(6P) KPE6

R. C. SP ASSY (AWZ5408)

SEMICONDUCTORS		
	Q271, Q272	XDC143ES
	D271, D272	HSS104-02
RELAYS		
	RY271, RY272	ASR-112
RESISTORS		
	R273, R274	RS1PMF821J
	Other Resistors	RD1/8PM□□□J
OTHERS		
	CN8007	PIN JACK 1-P AKB1139
		SPEAKER TERMINAL 8-P AKE-111
		SPEAKER TERMINAL 4-P AKE1055
		CABLE HOLDER(7P) AKT1080

SW ASSY (AWZ5412)

SWITCH		
	S111	ASH1043
OTHERS		
	CN29	CONNECTOR(3P) KPE3

Mark	No.	Description	Part No.

AUDIO FUNCTION ASSY (AWZ5416 and AWZ5728)

SEMICONDUCTORS

	IC404		M5220P
	IC402		TC9163N
	IC401		TC9164N
	IC403		XRA4558-P

CAPACITORS

	C447, C448		CCSQCH102J50
	C419, C420		CCSQCH221J50
	C417, C418		CCSQCH681J50
	C423, C424		CCSQSL101J50
	C415, C416		CEAS100M50
	C431, C432		CEAS101M16
	C433, C434, C439, C440		CEAS2R2M50
	C421, C422		CEAS470M25
	C445, C446		CEAS4R7M50
	C435-C438		CKSQYB103K50
	C1400, C429, C430, C441, C444		CKSQYF103Z50
	C427, C428		CQMA242J50
	C425, C426		CQMA822J50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

		PIN JACK(6P)	AKB1121
	CN8207	PIN JACK(6P) (AWZ5416 ONLY)	AKB1129
		PIN JACK(4P) (AWZ5728 ONLY)	AKB1101
		PIN JACK(2P) (AWZ5728 ONLY)	AKB1151
		CABLE HOLDER(11P)	AKT1084
	CN152	13P SOCKET	KP200IB13L

A/V FUNCTION ASSY (AWZ5417)

SEMICONDUCTORS

	IC452		TC9162N
	IC451		TC9163N
	IC453		XRA4558N-P

CAPACITORS

	C487, C488		CCSQCH102J50
	C479, C480		CEAS2R2M50
	C481, C482		CEAS470M25
	C485, C486		CEAS4R7M50
	C475-C478		CKSQYB103K50
	C1450, C483, C484		CKSQYF103Z50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

		PIN JACK(4P)	AKB1101
		PIN JACK(4P)	AKB1124
	CN2	PLUG 3-P	KM250MA3L
	CN153	10P SOCKET	KP200IB10L
	CN11	L-CONNECTOR(11P)	KPD11L

Mark	No.	Description	Part No.

VIDEO FUNCTION ASSY (AWZ5418)

SEMICONDUCTORS

	IC502		LA7951
	IC504		LA7952
	IC1502		M66320FP
	IC501, IC503		NJM2233BLA
	IC505, IC509		NJM2234L
	IC1503		UPC78L05J
	Q505-Q507		2SA1115
	Q508		2SC2412K
	Q509		2SC2458
	D501-D504		HSS104-02

COILS

	L1501, L1503, L501-L504		LAU680J
	L509-L511		LAU680J

CAPACITORS

	C558, C559, C562		CCSQCH050C50
	C1526		CCSQCH102J50
	C1527		CCSQCH220J50
	C1529		CCSQCH820J50
	C1515		CEANP470M10
	C1506		CEAS101M10
	C507		CEAS101M16
	C521		CEAS2R2M50
	C1501, C1503, C1504, C1516-C1518		CEAS470M25
	C1523, C1525, C501-C506, C509		CEAS470M25
	C511, C513-C517, C519		CEAS470M25
	C552, C553, C557		CEAS470M25
	C561, C563		CEAS471M10
	C560		CEAS471M6
	C1522		CEAS4R7M50
	C1505		CKSQYB102K50
	C1502, C1507, C1519, C1521, C508		CKSQYF103Z50
	C510, C518, C520, C554-C556		CKSQYF103Z50

RESISTORS

	R542, R548		RD1/2PM221J
	R541		RD1/2PM331J
	R1504		RD1/4PM680J
	Other Resistors		RS1/10S□□□J

OTHERS

	CN8111	PIN JACK(2P)	AKB1118
		PHONO JACK 2-P	AKB1134
	CN6	3P RCA PINJACK	AKB1143
	CN3	PLUG 3-P	KM250MA3L
	CN154	19P SOCKET	KP200IB19L
	CN199	9P SOCKET	KP200IB9L

Mark	No.	Description	Part No.

VIDEO FUNCTION ASSY (AWZ5431)

SEMICONDUCTORS

	IC502	LA7951
	IC504	LA7952
	IC507	M50554-003SP
	IC1502	M66320FP
	IC506	MM1067XD
	IC501, IC503, IC508	NJM2233BLA
	IC505, IC509	NJM2234L
	IC1503	UPC78L05J
	Q505-Q507	2SA1115
	Q508	2SC2412K
	Q503, Q504	2SC2458
	Q501, Q502, Q510	XDC124ES
	D508	1SS108
	D505-D507	1SS352
	D501-D504	HSS104-02

COILS

	L506	LAU150J
	L507, L508	LAU270J
	L1501-L1503, L501-L504	LAU680J
	L509-L511	LAU680J

CAPACITORS

	TC501	ACM-020
	C558, C559, C562	CCSQCH050C50
	C540, C546	CCSQCH101J50
	C1526	CCSQCH102J50
	C542, C544	CCSQCH150J50
	C1528	CCSQCH151J50
	C1527, C549, C551	CCSQCH220J50
	C535	CCSQCH221J50
	C543	CCSQCH330J50
	C1529	CCSQCH331J50
	C534	CCSQCH471J50
	C532	CCSQCH561J50
	C1503, C1515	CEANP470M10
	C536	CEASR47M50
	C526, C530, C531	CEAS010M50
	C527, C547	CEAS100M50
	C1506	CEAS101M10
	C507	CEAS101M16
	C521	CEAS2R2M50
	C1501, C1504, C1511, C1513, C1514	CEAS470M25
	C1516-C1518, C1523, C1525	CEAS470M25
	C501-C506, C509, C511, C513-C517	CEAS470M25
	C519, C538, C552, C553, C557	CEAS470M25
	C561, C563	CEAS471M10
	C560	CEAS471M6
	C1524	CEJA100M16
	C537	CEJA2R2M50
	C1505, C545	CKSQYB102K50
	C533	CKSQYB332K50
	C1502, C1507, C1512, C1519, C1521	CKSQYF103Z50
	C508, C510, C518, C520, C528, C539	CKSQYF103Z50
	C548, C550, C554-C556	CKSQYF103Z50
	C541	CKSQYF104Z50
	C529	CKSQYF473Z50

Mark	No.	Description	Part No.

RESISTORS

	R542, R548	RD1/2PM221J
	R541	RD1/2PM331J
	R1504	RD1/4PM680J
	R1531	RD1/8PM133J
	Other Resistors	RS1/10S□□□J

OTHERS

	CN8111	PIN JACK(2P)	AKB1118
		PHONO JACK 2-P	AKB1134
	CN6	3P RCA PINJACK	AKB1143
	X502	CRYSTAL RESONATOR (14.31818MHz)	ASS1056
	X501	CERAMIC RESONATOR(503kHz)	ASS1112
	CN3	PLUG 3-P	KM250MA3L
	CN154	16P SOCKET	KP200IB16L
	CN199	9P SOCKET	KP200IB9L

CONNECTION ASSY (AWZ5419 and AWZ5432)

SEMICONDUCTORS

	IC551	TC9176P
	IC1552, IC555	XRA4558-P
	D552-D554	HSS104-02
	D551	RD5.1ESB2

CAPACITORS

	C2554, C2555	CCSQCH101J50
	C1553, C2551	CCSQCH102J50
	C1564-C1567	CEAS100M50
	C1551	CEAS102M16
	C1552, C1556, C1557	CEAS470M25
	C1554, C1555, C1562, C1563	CEAS4R7M50
	C1558, C1559	CKSQYF103Z50
	C2552, C2553	CKSQYF473Z50

RESISTORS

	R552	RD1/2PM181J
	R564, R565	RD1/2PM221J
	R1561	RFA1/4PS100J
	Other Resistors	RS1/10S□□□J

OTHERS

	CN114	SOCKET(27P)	AKP1099
	CN53	10P PLUG	KM200IB10
	CN51	12P PLUG	KM200IB12
	CN52	13P PLUG	KM200IB13
	CN54	19P PLUG(AWZ5419)	KM200IB19
	CN54	16P PLUG(AWZ5432)	KM200IB16
	CN99	9P PLUG	KM200IB9

Mark	No.	Description	Part No.

TONE ASSY (AWZ5420 and AWZ5426)

SEMICONDUCTORS

	IC573	M5220P
	IC571	TC9162N
	IC572, IC574	XRA4558N-P
	Q577	2SA1115
	Q571-Q574	2SC2458
	D571-D574, D577-D580	HSS104-02
	D575, D576	RD5.1ESB2

CAPACITORS

	C591, C592	CCSQCH151J50
	C573, C574	CEAS010M50
	C585, C586, C589, C590	CEAS100M50
	C599, C600	CEAS100M50
	C571, C572, C587, C588	CEAS4R7M50
	C593, C594	CEAS4R7M50
	C577, C578, C595, C596	CEASR47M50
	C575, C576	CFTXA154J50
	C579, C580	CFTXA473J50
	C605	CKDYF103Z50
	C583, C584	CKPUYB151K50
	C597, C598	CKSQYB103K50
	C601	CKSQYB471K50
	C581, C582	CQMA153J50

RESISTORS

	R627, R628	RD1/4PM221J
	R631(AWZ5420 ONLY)	RD1/4PM2R7J
	R1597	RS1/10S000J
	R622-R624	RS1/10S102J
	R575, R576, R629, R630	RS1/10S104J
	R605, R606	RS1/10S223J
	R601, R602	RS1/10S473J
	R603, R604(AWZ5420)	RS1/10S562J
	VR573 (10kΩ×2)	ACS1029
	VR571, VR572 (30kΩ×2)	ACS1115
	Other Resistors	RD1/8PM□□□J

OTHERS

	CABLE HOLDER(10P)	AKT1083
CN55, CN56	15P PLUG	KM200IB15
CN13	CONNECTOR(15P)	KPE15

Mark	No.	Description	Part No.

FL U-COM ASSY (AWZ5434 and AWZ5438)

SEMICONDUCTORS

	IC701(AWZ5434)	PDG118A
	IC701(AWZ5438)	PDG117B
	Q702, Q703, Q705-Q708, Q710	2SC2458
	Q711(AWZ5434 ONLY)	XDA124ES
	Q701, Q712, Q713	XDC124ES
	Q704(AWZ5434 ONLY)	XDC143ES
	D711-D714, D717-D720(AWZ5434 ONLY)	AEL1100
	D735-D737, D739	AEL1100
	D745-D752(AWZ5434 ONLY)	AEL1100
	D754-D756(AWZ5434 ONLY)	AEL1100
	D734	AEL1151
	D723-D726, D753(AWZ5434 ONLY)	AEL1164
	D701-D710, D715, D716	HSS104-02
	D721, D722, D727, D728, D733	HSS104-02
	D740-D743, D761-D763	HSS104-02
	D764(AWZ5434 ONLY)	HSS104-02

COIL

	L701	LAU220K

SWITCHES

	S701-S732	ASG1034
	S733	ASX1015

CAPACITORS

	C707 (47mF, 5.5V)	ACH1246
	C704, C706	CEAS010M50
	C702	CEAS101M10
	C708	CEAS470M50
	C701	CEJA010M50
	C705, C709	CKCYX473M25
	C703	CKPUYF473Z16

RESISTORS

	R743	RD1/4PM221J
	R725, R728, R731(AWZ5434 ONLY)	RD1/4PM271J
	Other Resistors	RD1/8PM□□□J

OTHERS

V701	FL TUBE	AAV1196
CN14	SOCKET(27P)	AKP1100
CN20	18P SOCKET	AKP1106
X701	CRYSTAL RESONATOR (8.00MHz)	ASS1015
	REMOTE RECEIVER UNIT	AXX1023

Mark	No.	Description	Part No.

SR & S. TERMINAL ASSY (AWQ1024 and AWQ1026)

SEMICONDUCTORS

	IC651, IC652		LA7951
	IC653		NJM2234L
	IC654, IC655 (AWQ1024 ONLY)		NJM2234L
	Q656, Q657, Q660		2SA1048
	Q652, Q653, Q658		2SA1115
	Q651, Q654 (AWQ1024 ONLY)		2SA1115
	Q655, Q659		2SC2458
	Q1652		DTC143EK
	Q661, Q1651 (AWQ1024 ONLY)		XDC124ES
	D651-D653, D655-D657		HSS104-02
	D1651 (AWQ1024 ONLY)		HSS104-02
	D654		RD5.1ESB

COILS

	L651, L652, L655, L658 (AWQ1024 ONLY)		LAU680K
	L653, L654, L656, L657, L659, L660		LAU680K

CAPACITORS

	C681, C682, C693		CCSQCH050C50
	C680, C683 (AWQ1024 ONLY)		CCSQCH050C50
	C1658		CCSQCH101J50
	C688		CEANP470M10
	C684, C686		CEAS010M50
	C655, C656, C665, C671		CEAS100M50
	C1657		CEAS101M10
	C668, C669, C689		CEAS101M16
	C1651, C663, C677, C678		CEAS470M25
	C1654, C1655, C652, C654, C658 (AWQ1024 ONLY)		CEAS470M25
	C661, C676, C679 (AWQ1024 ONLY)		CEAS470M25
	C692		CEAS470M25
	C1653 (AWQ1026 ONLY)		CEAS470M25
	C687, C694		CEAS471M10
	C685		CEAS471M6
	C1652		CEJA470M16
	C1656		CKSQYB822K50
	C666, C667, C673, C674		CKSQYF103Z50
	C657, C662, C672, C675 (AWQ1024 ONLY)		CKSQYF103Z50
	C672-C675, C690, C691		CKSQYF103Z50
	C659, C660, C664		CKSQYF104Z25
	C651, C653 (AWQ1024 ONLY)		CKSQYF104Z25
	C670		CKSQYF104Z25

RESISTORS

	R674 (AWQ1024 ONLY)		RD1/2PM221J
	R698		RD1/2PM221J
	R671 (AWQ1024 ONLY)		RD1/2PM331J
	R672, R673		RD1/2PM331J
	Other Resistors		RS1/10S□□□J

OTHERS

	CN655	PIN JACK (1P)	AKB1168
	CN651	JACK	AKN1006
		JACK	AKN1020
	CN653, CN654	SOCKET	AKP1064
	CN12	CONNECTOR (14P)	KPE14
	CN34	CONNECTOR (6P)	KPE6

Mark	No.	Description	Part No.

GUI ASSY (AWQ1025)

SEMICONDUCTORS

	IC801		CXA1645M
	IC803		HM514256AP10
	IC804		LH52B256N9LL
	IC809		MC74AC541M
	IC805		PDR008A
	IC808		SC78213GC
	IC807, IC812		TC74AC00F
	IC806, IC811		TC74HC573AF
	IC810		TC74HC74AF
	IC802		YGV606-F
	Q801-Q803		2SC2712
	Q804		2SC3732
	D801-D808		1SS352

COILS

	L801, L806, L809, L810		ATX1008
	L818-L821		ATX1008
	L822-L830		ATX1026
	L811, L812, L814-L817		LCTA100J3225
	L802-L805, L807, L808		LCTA1R0J3225

CAPACITORS

	C853 (47mF, 5.5V)		ACH1246
	C809		CCSQCH020C50
	C822, C823		CCSQCH120J50
	C840, C843		CCSQCH150J50
	C811		CCSQCH470J50
	C806		CCSQCH560J50
	C841		CEAS471M6
	C807		CEJA100M16
	C819, C826, C828, C833, C835		CEJA101M10
	C847		CEJA101M10
	C804, C812		CEJA470M16
	C817		CEJA4R7M35
	C810, C814-C816		CFTXA104J50
	C854		CKSQYB102K50
	C805, C813		CKSQYF103Z50
	C808, C818, C820, C821		CKSQYF104Z50
	C824, C825, C827, C831, C832		CKSQYF104Z50
	C801-C803, C829, C830, C834		CKSQYF473Z50
	C836-C839, C842, C844-C846		CKSQYF473Z50
	C848-C852, C858		CKSQYF473Z50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	X801	CRYSTAL RESONATOR	ASS1056
	X802	CRYSTAL RESONATOR	ASS1104
	CN35	CONNECTOR (5P)	KPE5
	CN32	CONNECTOR (6P)	KPE6
	CN31	CONNECTOR (9P)	KPE9

Mark	No.	Description	Part No.
PROLOGIC • SFC MODULE (AXQ1029)			
SEMICONDUCTORS			
	IC2001		LA2785
	IC2007		LC32464M-80
	IC2008, IC2018		LC78835M
	IC2003-IC2006, IC2010, IC2011, IC2013		NJM4558M-D
	IC2017		NJM4558M-D
	IC2019		NJM78M05FAS
	IC2002		NJM78M09FAS
	IC2012		PDC017C
	IC2015		PDC018A
	IC2014		TC9162N
	Q2001		2SA1162
	Q2002		DTC124EK
	D2001, D2002, D2004		1SS226
COILS			
	L2004, L2006, L2010, L2014		ATX1008
	L2013, L2015		LCTAR22J3225
	L2003, L2005		LTA102J
	L2011, L2012		LTA473J
CAPACITORS			
	C2168		CCSQCH040C50
	C2084, C2085		CCSQCH080D50
	C2036, C2108, C2113		CCSQCH101J50
	C2164, C2167		CCSQCH150J50
	C2163		CCSQCH470J50
	C2080, C2081		CCSQCH471J50
	C2082, C2083		CCSQCH680J50
	C2018, C2021		CEANL3R3M50
	C2014, C2016, C2023, C2025		CEANL4R7M50
	C2122, C2126		CEANP101M16
	C2072, C2073		CEAS010M50
	C2047, C2048, C2053, C2058, C2064		CEAS100M50
	C2102, C2104, C2106, C2130, C2135		CEAS100M50
	C2060, C2066, C2153		CEAS101M10
	C2105		CEAS220M16
	C2068, C2069		CEAS220M25
	C2037, C2166		CEAS221M10
	C2003, C2008, C2123, C2127		CEAS221M16
	C2051, C2052, C2054, C2067, C2103		CEAS2R2M50
	C2076, C2077		CEAS330M16
	C2039		CEAS331M16
	C2029, C2056, C2092		CEAS470M10
	C2112		CEAS470M25
	C2138		CEAS471M10
	C2004-C2007, C2009, C2010		CEJA100M16
	C2032-C2034		CEJA100M16
	C2013, C2015, C2024, C2026		CEJAR47M50
	C2011, C2012, C2027, C2028		CFTXA104J50
	C2019, C2020		CFTXA154J50
	C2030		CFTXA474J50
	C2017, C2022		CFTYA154J50
	C2070, C2071, C2097		CKSQYB102K50
	C2078, C2079, C2086, C2087		CKSQYB103K50
	C2090, C2091, C2111		CKSQYB103K50
	C2158, C2159, C2161, C2162		CKSQYB104K25
	C2140-C2142		CKSQYB182K50
	C2100		CKSQYB222K50
	C2101		CKSQYB471K50
	C2074, C2075, C2095, C2110, C2155		CKSQYB472K50
	C2041, C2042, C2055, C2057, C2089		CKSQYB473K25
	C2093, C2165, C2169-C2172		CKSQYB473K25
	C2038, C2040, C2154		CKSQYB473K50
	C2031, C2059, C2061, C2062, C2065		CKSQYF104Z50
	C2096, C2107, C2109, C2129, C2134		CKSQYF104Z50
	C2136		CKSQYF104Z50
	C2001		CQMA223J50
	C2002		CQMA473J50
	C2035		CQMA681J50
RESISTORS			
	R2148		RD1/2PMFL4R7J
	Other Resistors		RS1/10S□□□J
OTHERS			
	X2002	CERAMIC RESONATOR (4.19MHz)	ASS1018
	X2001	CRYSTAL RESONATOR (22.5792MHz)	ASS1114
	CN2001	15P SOCKET	KP200IB15L

7. ADJUSTMENTS

7.1 TUNER SECTION

1. Wiring ····· Connect the wires as shown in Fig. 7 – 1 (FM ANT. terminal : 75 Ω).
2. Preset ····· Set the VR451 to center position.
3. When the SD model is used, set the band select switch to AM : 10kHz/FM : 100kHz.

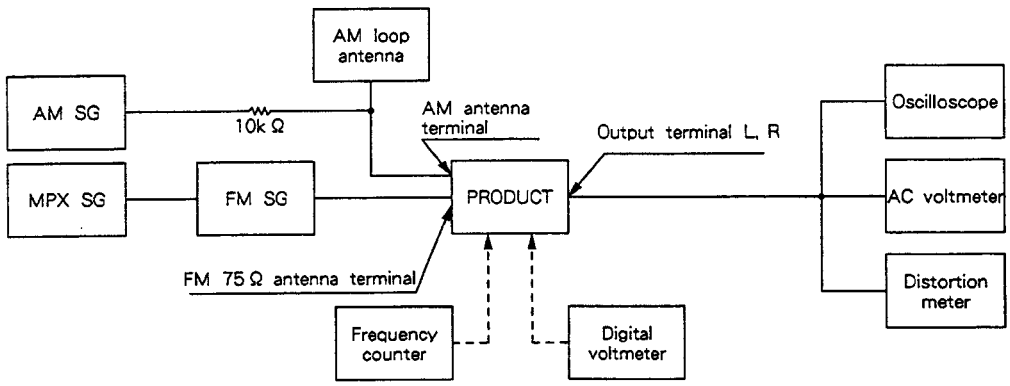


Fig. 7 – 1 AM and FM adjustment wiring diagram

Note : Stereo modulation Main 1kHz L+R ±68.25kHz
Pilot 19kHz±6.75kHz

FM Section

Order	Item	SSG			Receiving Frequency	Adjustment	
		Frequency	Modulation	Level		Adjustment Location	Remarks
1	Increasing front end sensitivity	98MHz	—	Weak input	98MHz	L402, L404, T402	Set the the voltage between terminal 43 and GND to maximum, and check that the practical sensitivity is as specified.
2	Center adjustment	98MHz	—	60dBμV	98MHz	L431	Adjust the voltage between terminals 45 and 46 to 0±50mV.
3	Adjusting VCO	—	OFF	60dBμV	—	VR451	Adjust the output of terminal 44 to 76.0kHz±1.0kHz.
4	Adjusting stereo distortion	98MHz	L-ONLY R-ONLY	60dBμV	98MHz	T402	Minimize the distortion within 1/4 rotation of the core, and check conformity to the specification.
5	Adjusting lighting levels of TUNED and STEREO IND.	98MHz	STEREO	10dBμV (+1dB, −2dB)	98MHz	VR432	Adjust TUNED and STEREO IND. to start lighting.

AM Section

Order	Item	SSG			Receiving Frequency	Adjustment	
		Frequency	Modulation	Level		Adjustment Location	Remarks
1	Adjusting lighting level of TUNED IND.	1000kHz	—	—	1000kHz	VR431	Adjust the lighting level of TUNED IND. to 55dBμV/m±3dB.

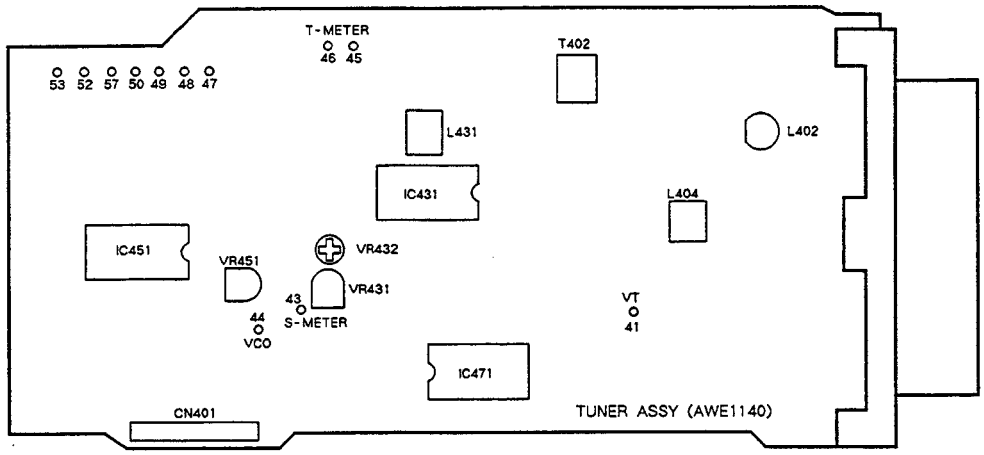


Fig. 7 – 2 Adjustment location of TUNER SECTION

7.2 VIDEO FUNCTION ASSY SECTION

- Connect the VIDEO OUT (TO MONITOR TV) terminal to a monitor TV.

1. Push the DOLBY PRO LOGIC button.
2. Adjust the TC501 to center the superimposed display (Fig. 7 - 3), leaving equal margin on both right and left of the TV screen.

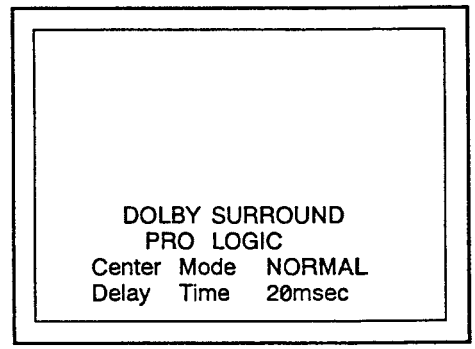


Fig. 7 – 3

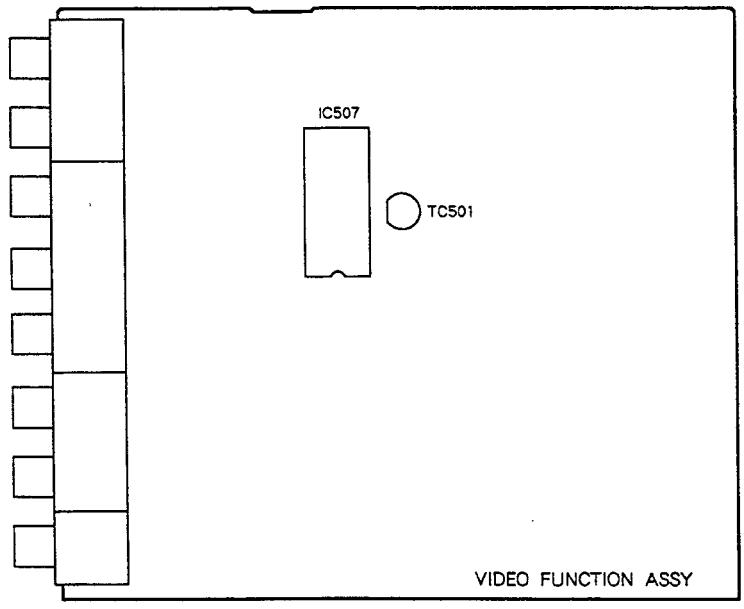


Fig. 7 – 4 Adjustment location of VIDEO FUNCTION SECTION

8. FL INFORMATION

■ AAV1196 (V701)

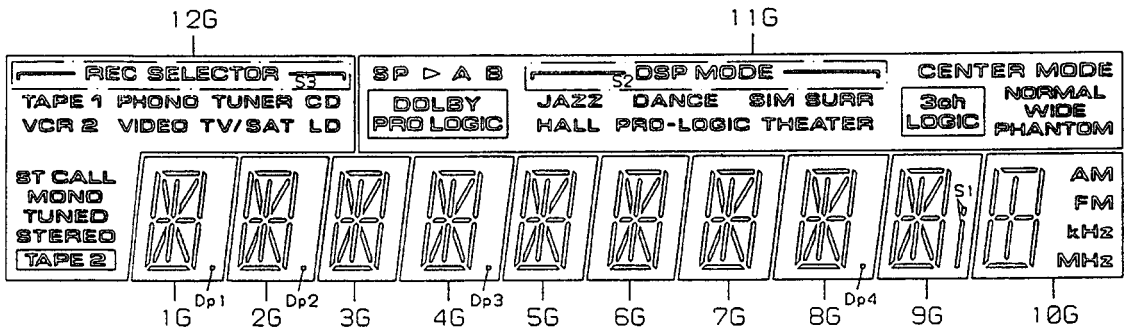
PIN LOCATION

PIN CONNECTION

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
CONNECTION	F1	F1	NP	NP	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NP	NP	NP	NP	F2	F2

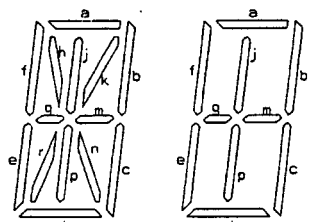
NOTE
1) F1,F2 --- Filament
2) NP ------ No pin
3) NX ------ No extend pin
4) DL ------ Datum Line
5) 1G~12G --- Grid

GRID ASSIGNMENT



ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G
P1	a	a	a	a	a	a	a	a	a	a	PHANTOM	ST CALL
P2	j	j	j	j	j	j	j	j	j	j	DOLBY PRO LOGIC	MONO
P3	k	k	k	k	k	k	k	k	k	AM	WIDE	LD
P4	h	h	h	h	h	h	h	h	h	FM	NORMAL	TV/SAT
P5	b	b	b	b	b	b	b	b	b	b	3ch LOGIC	VIDEO
P6	f	f	f	f	f	f	f	f	f	f	CENTER MODE	VCR 2
P7	g	g	g	g	g	g	g	g	g	g	PRO-LOGIC THEATER	-
P8	m	m	m	m	m	m	m	m	m	m	HALL	CD
P9	c	c	c	c	c	c	c	c	c	c	SIM SURR	TUNER
P10	e	e	e	e	e	e	e	e	e	e	DANCE	PHONO
P11	n	n	n	n	n	n	n	n	n	kHz	JAZZ	TAPE 1
P12	r	r	r	r	r	r	r	r	r	MHz	SP ▷	TUNED
P13	p	p	p	p	p	p	p	p	p	p	A	STEREO
P14	d	d	d	d	d	d	d	d	d	d	B	TAPE 2
P15	Dp1	Dp2	-	Dp3	-	-	-	Dp4	S1	-	S2	S3



9. IC INFORMATION

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

■ PDG118A (IC701)
PDG117B (IC701)
CONTROL MICROCOMPUTER

●Pin Function

Note : *1 : PDG118A , *2 : PDG117B

No.	NAME	I/O	FUNCTION	ACTIV
1	MR RMC	I	Remote control signal input from sub-room side	H
2	RMC	I	Remote control signal input	H
3	*1: GUI-EN	I	Input for GUI U-COM (SC78213GC) ENABLE	L
	*2: PE5	O	Not used	—
4	*1: GUI-RESET	O	RESET output (SC78213GC, YGV606-F)	L
	*2: PE6	O	Not used	—
5	*1: BACK-UP	O	POWER ON/$\overline{\text{OFF}}$	H
	*2: PE7/T0	O	Not used	—
6	POWER RY.	O	POWER Relay ON/OFF output	H
7	*1: GUI-CS	O	GUI U-COM (SC78213GC) CS output	L
	*2: OSD-CS	O	OSD IC (M50554-003) CS output	L
8	*1: GUI-CLK	O	GUI U-COM (SC78213GC) CLOCK output	—
	*2: OSD-CLOCK	O	OSD IC (M50554-003) CLOCK output	—
9	*1: GUI-DATA OUT	O	GUI U-COM (SC78213GC) DATA output	—
	*2: OSD-DATA	O	OSD IC (M50554-003) DATA output	—
10	*1: GUI-DATA IN	I	GUI U-COM (SC78213GC) DATA input	—
	*2: VIDEO DET	I	Input for VIDEO signal ON/OFF detection	L
11	CLOCK	O	CLOCK output	—
12	DSP.CE	O	DSP IC CE	L
13	DATA	O	DATA output	—
14	SR. OUT	O	SR signal output	H

No.	NAME	I/O	FUNCTION	ACTIV
15	KEY. IN. 1	I	KEY matrix input 1	—
16	KEY. IN. 2	I	KEY matrix input 2	—
17	KEY. IN. 3	I	KEY matrix input 3	—
18	JOG IN 1	I	JOG input 1	—
19	JOG IN 2	I	JOG input 2	—
20	ST1	O	STROB output 1	H
21	ST2	O	STROB output 2	H
22	M66320 LE	O	VIDEO system IC M66320FP Chip select	H
23	VOLUME IN	I	MASTER VOLUME input (A/D input)	—
24	FAN-T IN	I	FAN TEMPLE input (A/D input)	—
25	FAN-W IN	I	FAN WATTAGE input (A/D input)	—
26	TUNED	I	TUNER signal ON/OFF input	L
27	PLL-DATA	O	PLL IC (LM7001) DATA output	—
28	PLL-CLOCK	O	PLL IC (LM7001) CLOCK output	—
29	PLL-CE	O	PLL IC (LM7001) CE output	H
30	RESET	I	RESET input	L
31	EXTAL	O	Connect a ceramic resonator 8 MHz	—
32	XTAL	I		
33	Vss	—	GND	—
34	TUNER MUTE	O	MUTE for TUNER	H
35	*1: SR MUTE	O	MUTE output of Remote control signal	H
	*2: PD1/S1	O	Not used	—
36	A. MUTE	O	Audio MUTE	H

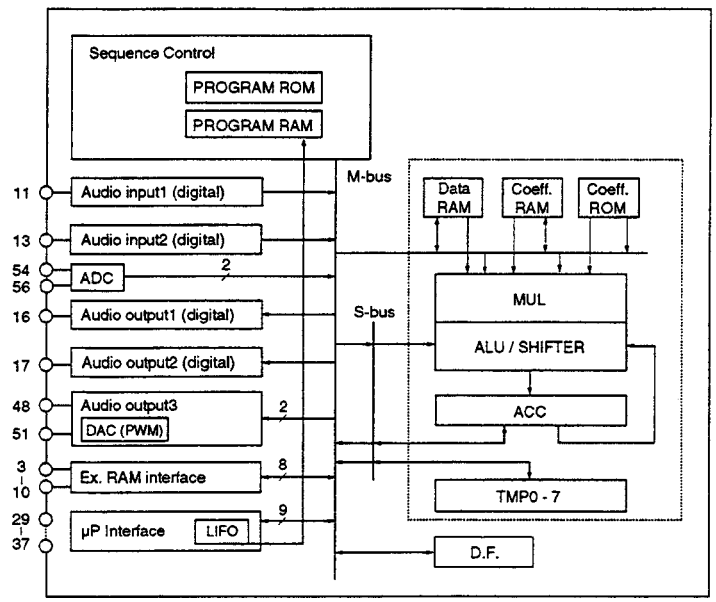
Note : *1 : PDG118A , *2 : PDG117B

No.	NAME	I/O	FUNCTION	ACTIV
37	VH/VL	O	SPEAKER both A and B ON : H	H
38	VOL LED	O	LED for MASTER VOLUME	H
39	VOL UP	O	MASTER VOLUME control	—
40	VOL DOWN	O	UP: H L L; DOWN: L H L; STOP	—
41	FAN ON/OFF	O	FAN ON/OFF	H
42	OSD MAIN/SUB	O	OSD MAIN/SUB switching (MAIN/SUB = L/H)	—
43	DIRECT	O	DIRECT ON/OFF	H
44	S1 / K.OUT 11	O	FL Segment output 1 / KEY matrix output 11	—
45	S2 / K.OUT 10	O	FL Segment output 2 / KEY matrix output 10	—
46	S3/ K.OUT 9	O	FL Segment output 3 / KEY matrix output 9	—
47	S4/ K.OUT 8	O	FL Segment output 4 / KEY matrix output 8	—
48	S5 / K.OUT 7	O	FL Segment output 5 / KEY matrix output 7	—
49	S6 / K.OUT 6	O	FL Segment output 6 / KEY matrix output 6	—
50	S7 / K.OUT 5	O	FL Segment output 7 / KEY matrix output 5	—
51	S8 / K.OUT 4	O	FL Segment output 8 / KEY matrix output 4	—
52	S9 / K.OUT 3	O	FL Segment output 9 / KEY matrix output 3	—
53	S10 / K.OUT 2	O	FL Segment output 10/ KEY matrix output 2	—
54	S11 / K.OUT 1	O	FL Segment output 11 / KEY matrix output 1	—
55	S12	O	FL Segment output 12	—
56	S13	O	FL Segment output 13.	—
57	S14	O	FL Segment output 14	—
58	S15	O	FL Segment output 15	—
59	G1	O	FL grit output 1	—
60	G2	O	FL grit output 2	—
61	G3	O	FL grit output 3	—
62	G4	O	FL grit output 4	—
63	G5	O	FL grit output 5	—

No.	NAME	I/O	FUNCTION	ACTIV
64	G6	O	FL Grit output 6	—
65	G7	O	FL Grit output 7	—
66	G8	O	FL Grit output 8	—
67	G9	O	FL Grit output 9	—
68	G10	O	FL Grit output 10	—
69	G11	O	FL Grit output 11	—
70	G12	O	FL Grit output 12	—
71	Vfdp	—	FL – VF Load power supply input	—
72	Vdd	—	+ 5 V power supply input	—
73	NC	—	+ 5 V	—
74	SP-A	O	SPEAKER A ON/OFF	H
75	SP-B	O	SPEAKER B ON/OFF	H
76	C/R RY	O	CENTER/REAR Relay	H
77	MR RY	O	MULTI ROOM Relay	H
78	STEREO	I	TUNER STEREO input	H
79	WAKE UP	I	AC pulse input	—
80	*1: GUI MUKAI	I	GUI U-COM (SC78213GC) BUSY input	H
	*2: TE2	O	Not used	—

■ PDC017C (IC2012)
DSP

●Block Diagram



●Pin Function

(E) : External memory I/F, (A) : Audio I/F, (M) : Microprocessor I/F

No.	NAME	I/O	FUNCTION
1	$\overline{\text{DWRT}}$ (E)	O	External memory write signal output
2	$\overline{\text{CE}}/\overline{\text{CS}}$ (E)	O	External memory enable/select signal output (SRAM, PSRAM, ROM)
3	D7 (E)	I/O	Data I/O (One DRAM:D3 to D0, others:D7 to D0)
4	D6 (E)		
5	D5 (E)		
6	D4 (E)		
7	D3 (E)		
8	D2 (E)		
9	D1 (E)		
10	D0 (E)		
11	ASI1 (A)	I	Audio input
12	BCK1 (A)	I	ASI1 bit clock input
13	ASI2 (A)	I	Audio input
14	BCK2 (A)	I	ASI2 bit clock input
15	LRCKO (A)	O	fs output (LRCKI through output or 1/512 or 1/384 divided output of OSC1)
16	ASO1 (A)	O	Audio output
17	ASO2 (A)		
18	AOWCK (A)	O	2 fs output (1/32 divided output of BCK1 or 1/256 or 1/192 divided output of OSC1)

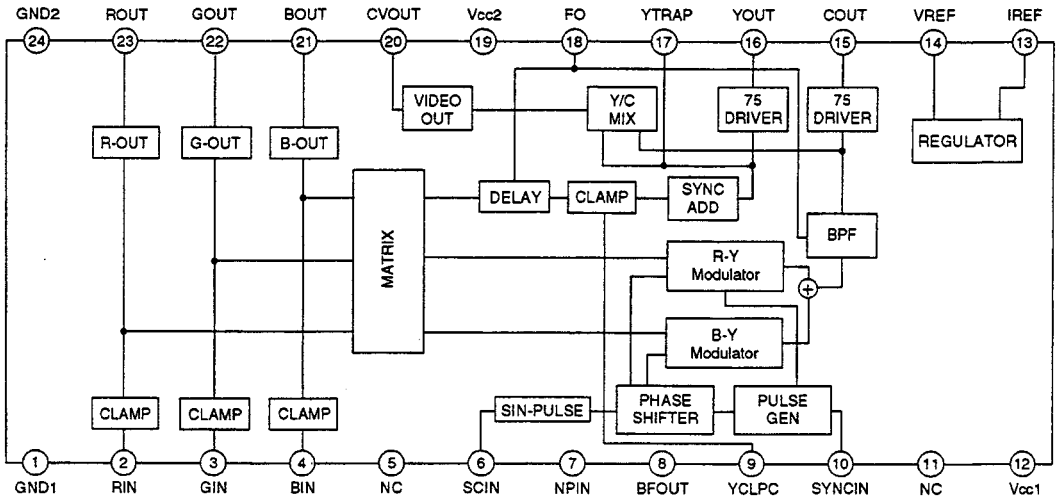
No.	NAME	I/O	FUNCTION
19	LRCKI (A)	I	fs input (Lch and Rch switching signal)
20	V_{DD}	—	Digital block V_{DD} (Connected to + 5V.)
21	OSC1	I	Connected to crystal Resonator.
22	OSC2	O	Connected to crystal Resonator.
23	V_{SS}	—	Digital block V_{SS} (Connected to GND.)
24	BCKDV	O	32 fs output (1/2 divided output of BCK1 or 1/16 or 1/12 divided output of OSC1)
25	BCKO	O	64 fs output (BCK1 through output or 1/8 or 1/6 divided output of OSC1)
26	FS1280	O	128 fs output (1/4 or 1/3 divided output of SCKI or 1/4 or 1/3 divided output of OSC1)
27	SCKDV	O	192 fs or 256 fs output (1/2 divided output of SCKI or 1/2 divided output of OSC1)
28	SCKO	O	384 fs or 512 fs output (SCKI through output or OSC1 through output)
29	SO (M)	O	Serial data output to control microprocessor (8-bit serial)
30	$\overline{\text{SOAK}}$ (M)	O	Output that indicates serial output is in function.
31	$\overline{\text{SIAK}}$ (M)	O	Output that indicates serial input is in function.
32	SOCK (M)	I	SO transfer clock input
33	$\overline{\text{SORQ}}$ (M)	I	Serial output request signal input

(E) : External memory I/F, (A) : Audio I/F, (M) : Microprocessor I/F

No.	NAME	I/O	FUNCTION
34	$\overline{\text{SRDY}}$ (M)	I	Ready signal input that indicates serial data input from control microprocessor is completed.
35	SICK (M)	I	SI transfer clock input
36	SI (M)	I	Serial data input from control microprocessor (8-bit serial)
37	$\overline{\text{SIRQ}}$ (M)	I	Serial input request signal input
38	SCKI	I	384 fs or 512 fs input
39	$\overline{\text{SELC}}$	I	System clock switching (0: External (SCKI), 1: Internal)
40	TEST6	O	Test (Normally no connection)
41	V_{DD}	—	Digital block V_{DD} (Connected to +5V.)
42	TEST1	I	Test (Normally connected to GND.)
43	TEST2		
44	TEST3		
45	TEST4		
46	TEST5		
47	$DALV_{SS}$	—	D/A Vss (Lch). Connected to GND.
48	DAOL (A)	O	D/A output (Lch)
49	$DALV_{DD}$	—	D/A V_{DD} (Lch). Connected to +5V.
50	$DARV_{SS}$	—	D/A Vss (Rch). Connected to GND.
51	DAOR (A)	O	D/A output (Rch)
52	$DARV_{DD}$	—	D/A V_{DD} (Rch). Connected to +5V.
53	DZLOUT (A)	O	A/D dither output (Lch)
54	ADL2 (A)	O	A/D output (Lch)
55	$ADLV_{SS}$	—	A/D Vss (Lch). Connected to GND.
56	ADL1 (A)	I	A/D input (Lch)
57	$ADLV_{DD}$	—	A/D V_{DD} (Lch). Connected to +5V.
58	ADL3 (A)	O	A/D output (Lch)
59	DZROUT (A)	O	A/D dither output (Rch)
60	ADR2 (A)	O	A/D output (Rch)
61	$ADRV_{SS}$	O	A/D Vss (Rch). Connected to GND.
62	ADR1 (A)	I	A/D input (Rch)
63	$ADRV_{DD}$	—	A/D V_{DD} (Rch). Connected to +5V.
64	ADR3 (A)	O	A/D output (Rch)
65	$\overline{\text{SACK1}}$	I	Frequency division switching for creating 128 fs (0: 1/3, 1: 1/4)
66	$\overline{\text{SACK2}}$	I	L/R clock and bit clock switching (0:External, 1:Internal)
67	$\overline{\text{SACK3}}$	I	Input system clock frequency switching (0:768 fs, 1:384 fs, or 512 fs)
68	$\overline{\text{RES}}$	I	Reset
69	Vss	—	Digital block Vss (Connected to GND.)
70	V_{DD}	—	Digital block V_{DD} (Connected to +5V.)
71	P0	I/O	General-purpose port (with pull-up)
72	P1		
73	P2		
74	P3		
75	P4		
76	P5		
77	P6		
78	P7		
79	A0 (E)	O	Address output (DRAM access: A9 to A0, others: A16 to A0)
80	A1 (E)		
81	A2 (E)		
82	A3 (E)		
83	A4 (E)		
84	A5 (E)		
85	A6 (E)		
86	A7 (E)		
87	A8 (E)		
88	A9 (E)		
89	V_{DD}	—	Digital block V_{DD} (Connected to +5V.)
90	Vss	—	Digital block Vss (Connected to GND.)
91	A10 (E)	O	Address output (DRAM access: A9 to A0, others: A16 to A0)
92	A11 (E)		
93	A12 (E)		
94	A13 (E)		
95	A14 (E)		
96	A15 (E)		
97	A16 (E)		
98	$\overline{\text{RAS}}$ (E)	O	$\overline{\text{RAS}}$ signal output during DRAM access
99	$\overline{\text{CAS}}$ (E)	O	$\overline{\text{CAS}}$ signal output during DRAM access
100	$\overline{\text{DREAD}}$(E)	O	External memory read signal output

■ CXA1645M (IC801)
RGB TO COMPOSITE-VIDEO ENCODER

●Block Diagram



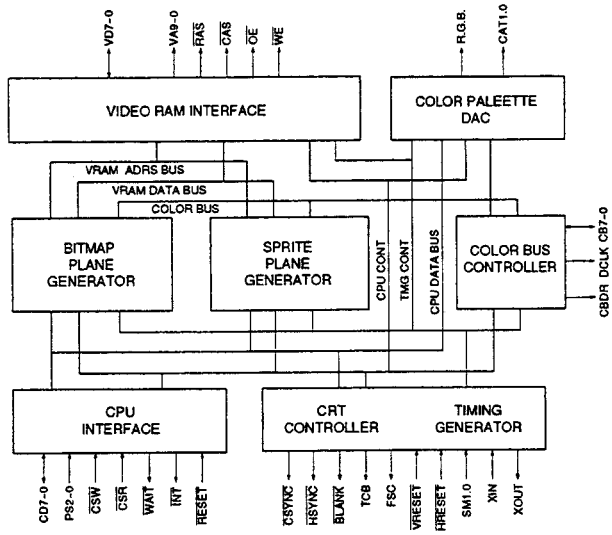
●Pin Function

No.	NAME	FUNCTION
1	GND1	GND for circuits other than RGB output, composite video output, and Y/C output circuits.
2	RIN	Analog RGB signal input
3	GIN	
4	BIN	
5	NC	No connection
6	SCIN	Sub-carrier input. Receives sign wave or pulse of 0.4 Vp-p to 5.0 Vp-p input level.
7	NPIN	NTSC and PAL switching. NTSC : Vcc PAL : GND
8	BFOUT	BF pulse monitor output
9	YCLPC	Y signal clamping time constant. Connects 0.1 µF capacitor between GNDs.
10	SYNCIN	Composite SYNC signal input. TTL level input. L (≦ 0.8 V) : SYNC period H (≧ 2.0 V)
11	NC	No connection
12	Vcc1	Power supply for circuits other than RGB output, composite Video output, and Y/C output circuits.

No.	NAME	FUNCTION
13	IREF	Decides internal reference current. Connects 47 kΩ resister between GNDs.
14	VREF	Internal reference voltage
15	COUT	C-signal output
16	YOUT	Y-signal output
17	YTRAP	Reduces the cross-color caused by sub-carrier frequency component contained in the Y signal.
18	FO	Adjusts internal filter fo. Connects the following resisters between GNDs according to NTSC/PAL modes. NTSC : 20 kΩ (± 1%) PAL : 16 kΩ (± 1%)
19	Vcc2	Power supply for RGB output, composite video output, and Y/C output circuits.
20	CVOUT	Composite video signal output
21	BOUT	Analog RGB signal output
22	GOUT	
23	ROUT	
24	GND2	GND for RGB output, composite video output, and Y/C output circuits.

■ YGV606-F (IC802)
VIDEO DISPLAY PROCESSOR

●Block Diagram



●Pin Function

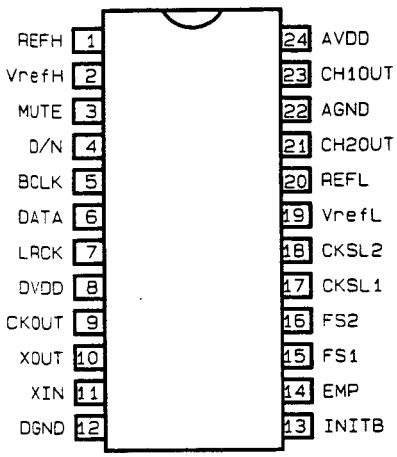
NAME	FUNCTION
CD7-0	CPU 8-bit bi-directional data bus
PS2-0	I/O port number specification input. Selects P6 to P0 of AVDP.
$\overline{CSW}$	Strobe signal input for writing data from CPU to ADVP
$\overline{CSR}$	Srtobe signal input for reading data from CPU to ADVP
$\overline{WAIT}$	Wait signal to CPU
$\overline{INT}$	Interruption request signal output to CPU
$\overline{RESET}$	Power ON reset signal. Initializes AVDP at low level.
VD7-0	VRAM data bus
VA9-0	VRAM address bus
$\overline{RAS}$	DRAM row address strobe for VRAM
$\overline{CAS}$	DRAM column address atrobe signal for VRAM
$\overline{OE}$	DRAM data output enable signal for VRAM
$\overline{WE}$	DRAM write enable signal for VRAM
R, G, B	Liner RGB output
CAT1,0	Color code attribute timing output. Generated according to the color pallet AT1 and AT0, and their color code liner RGB output timing.
CB7-0	Display color code input/output with AVDP (2-dot faster than liner RGB)
DCLK	Dot clock output. The input/outputs of CB7 to CB0 are synchronized with this clock.

NAME	FUNCTION
CBDR	Indicates the input/output status of CB7 to CB0. CBDR is "L" : CB7 to CB0 are input. CBDR is "H" : CB7 to CB0 are output.
$\overline{CSYNC}$	Composite SYNC signal output or vertical SYNC signal output
$\overline{HSYNC}$	Horizontal SYNC signal output. Equalizing pulse is not inserted.
$\overline{BLANK}$	Blanking period output
FSC	Sub-carrier clock output for NTSC video encoder. Valid only in NTSC mode.
$\overline{VRESET}$	Vertical timing reset input
$\overline{HRESET}$	Horizontal timing reset. AVDP horizontal timing is set to the horizontal SYNC start position during falling of this signal. Additionally, the dot clock phase is defined against the main clock.
TCB	Color burst insertion timing signal output
SM	Scan mode select input SM: High → Scan mode: NTSC SM: Low → Scan mode: PAL
XIN , XOUT	Connected to crystal Resonator. External oscillation clock is input to XIN.
AV_{DD},ADss	RGB analog power supply input
V_{DD},Vss	Digital power supply input
TSTP	Internal circuit test input. Normally "H" or no connection.

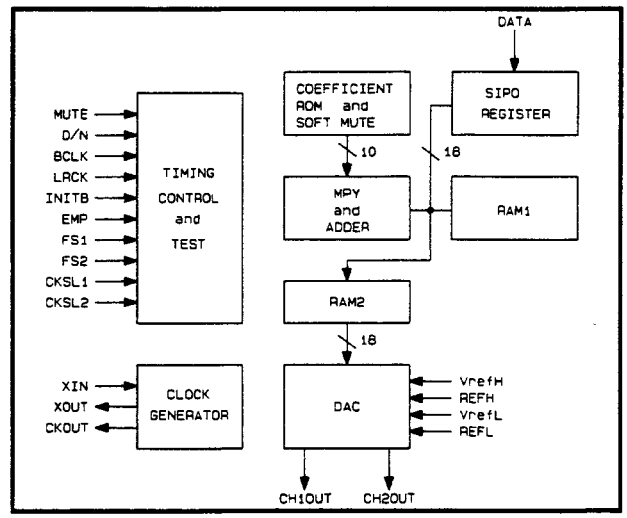
■ LC7883M (IC2008, IC2018 : PROLOGIC•SFC MODULE)

•18-bit Digital Filter and 18-bit D/A Converter, CMOS IC

● Pin Assignment (Top View)



● Block Diagram



● Pin Function

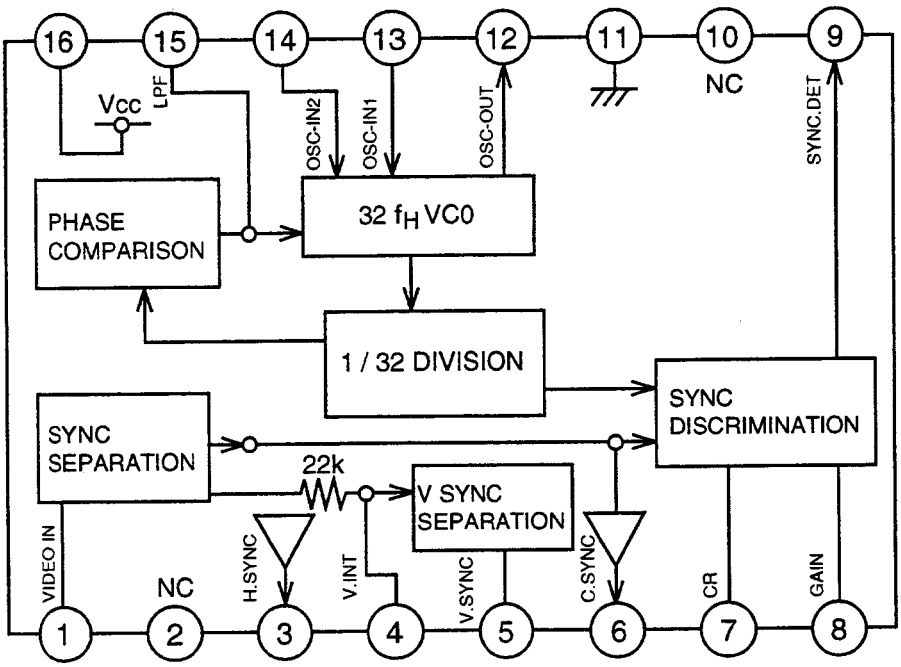
No.	Name	Description
1	REFH	Reference Voltage "H" Terminal Usually connected to AGND via capacitor.
2	Vref H	Reference Voltage "H" Input Terminal
3	MUTE	Mute Signal Input Terminal "H": Soft Mute ON
4	D/N	Standard/Double Speed Mode Changeover Terminal "H": Double speed; "L": Standard speed
5	BCLK	Bit Clock Input Terminal
6	DATA	Digital Audio Data Input Terminal Inputs with 2'S complement, MSB first
7	LRCK	LR Clock Input Terminal Inputs CH1 with "H" and CH2 with "L".
8	DVDD	Digital System Power Terminal
9	CKOUT	Clock Output Terminal at 392 fs: 196 fs clock excluding 392 fs: XIN frequency clock
10	XOUT	Crystal Oscillator Output Terminal (System Clock Output Terminal)
11	XIN	Crystal Oscillator Input Terminal (System Clock Input Terminal)
12	DGND	Digital System Ground Terminal
13	INITB	Initializing Signal Input Terminal With "L", initializing is performed.

No.	Name	Description
14	EMP	De-emphasis Filter ON/OFF Changeover Terminal H": ON, "L": OFF
15	FS1	De-emphasis Filter 32kHz/44.1kHz/48kHz Mode Selection Terminal
16	FS2	
17	CKSL1	System Clock Selection Terminal
18	CKSL2	
19	VrefL	Reference Voltage "L" Input Terminal
20	REFL	Reference Voltage "L" Terminal Normally connected to AGND via capacitor.
21	CH2OUT	CH2 Analog Output Terminal
22	AGND	Analog System Ground Terminal
23	CH1OUT	CH1 Analog Output Terminal
24	AVDD	Analog System Power Terminal

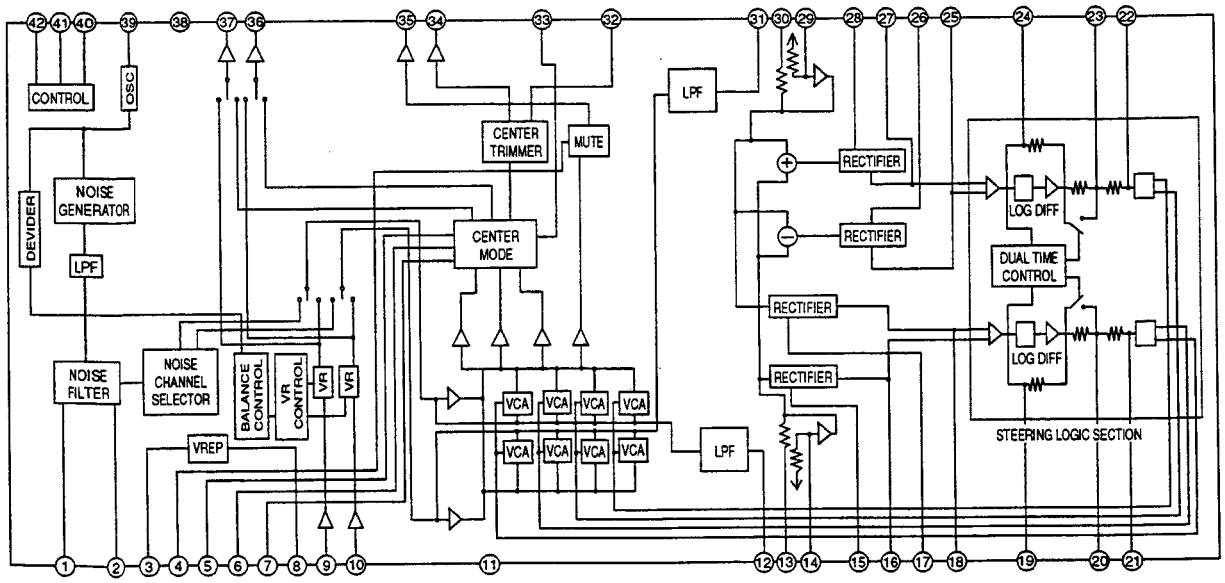
FS1	L	H	H	L
FS2	L	L	H	H
fs	44.1kHz		32kHz	48kHz

CKSL1	CKSL2	System Clock
L	L	384 fs
L	H	392 fs
H	L	448 fs
H	H	512 fs

■MM1067XD (IC506)



■LA2785 (IC2001)



10. REMOTE CONTROL UNIT

10.1 FOR CU-VSX084 (AXD1385)

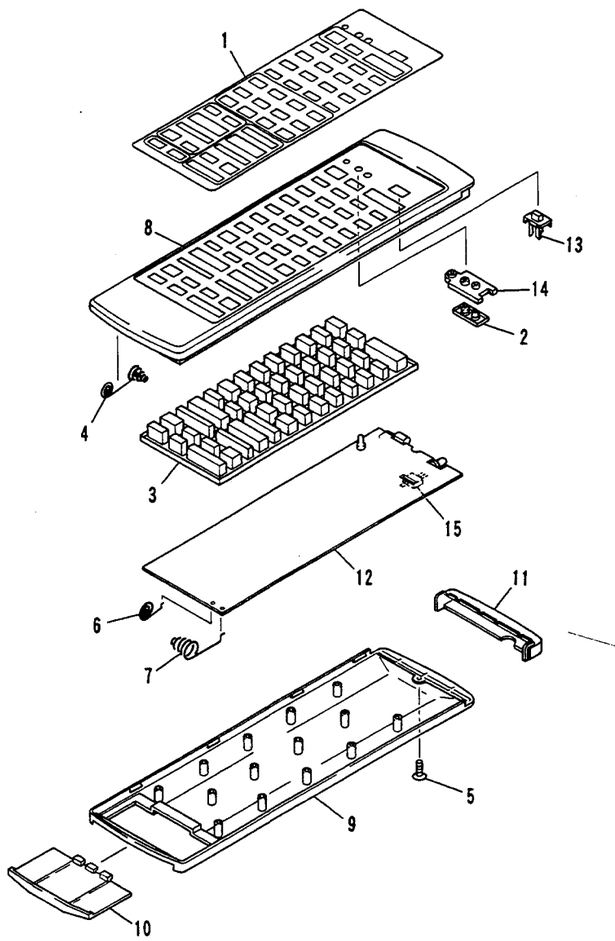
■ EXPLODED VIEW AND PARTS LIST

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.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

Parts List

Mark	No.	Description	Parts No.
	1	PLATE	AZA1984
	2	RUBBER SHEET (A) (S102)	AZA1985
	3	RUBBER SHEET (B) (S103)	AZA1986
	4	TERMINAL	AZB1334
	5	SCREW	AZB1335
	6	TERMINAL (A)	AZB1379
	7	TERMINAL (B)	AZB1380
	8	CASE (A)	AZN2254
	9	CASE (B)	AZN2255
	10	BATTERY COVER	AZN2256
	11	FILTER	AZN2257
NSP	12	P. C. BOARD	AZN2258
	13	KNOB (VIDEO/AUDIO)	AZN2259
	14	FRAME	AZN2260
	15	SLIDE SW (S101)	AZS1134



■ 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.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10¹ → 561 ····· RD1/8PM 5 6 1 J
47k Ω → 47 × 10³ → 473 ····· RD1/4PS 4 7 3 J
0.5 Ω → 0R5 ····· RN2H 0 R 5 K
1 Ω → 010 ····· RS1P 0 1 0 K

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

5.62k Ω → 562 × 10¹ → 5621 ····· RN1/4PC 5 6 2 1 F

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	IC1	μ-COM	AZC1841
	IC2	IC	PST9121N
	Q1	CHIP TRANSISTOR	2SC3265
	D1	LED	SE303A-C
	D2	CHIP DIODE	RLS73
	D3	DIODE	SPS-503C-3
	D4, 5	CHIP DIODE	RLS73
	D6	LED	SLC-22VR
CAPACITORS			
	C1	ELECT. CAPACITOR	CEAS221M25
	C2	ELECT. CAPACITOR	CEAS101M10
	C3	ELECT. CAPACITOR	CEAS0R1M50
	C4, 5	CERAMIC CAPACITOR	CCDSL330J50
	C6	ELECT. CAPACITOR	CEAS101M10
	C7	CERAMIC CAPACITOR	CCDSL101J50
	C8	ELECT. CAPACITOR	CEAS0R1M50
RESISTORS			
	R1	CARBON FILM RESISTOR	RD1/4PM020J
		Other resistors	RD1/8PM□□□J
OTHERS			
	X1	RESONATOR	FCR4.0MC3

■ SCHEMATIC DIAGRAM

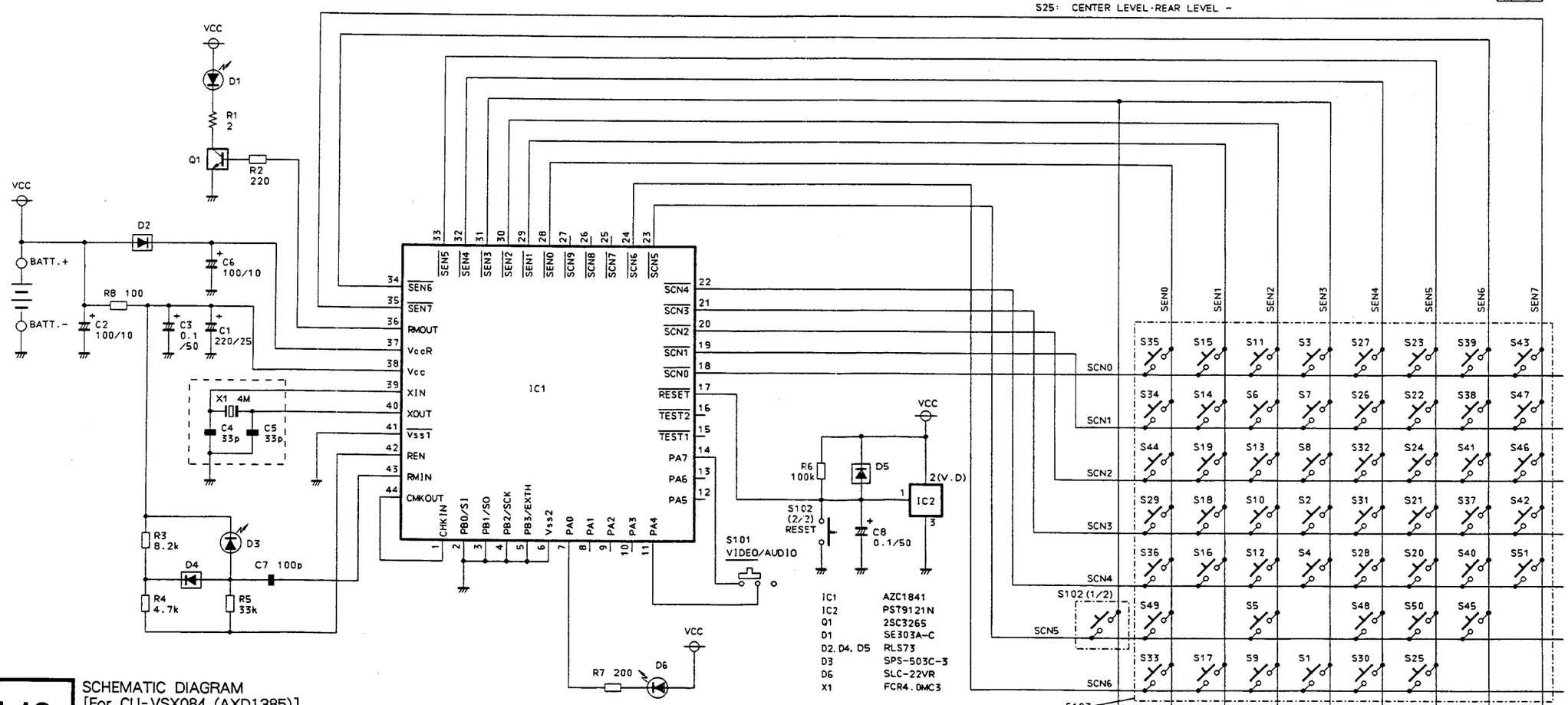
NOTE FOR SCHEMATIC DIAGRAMS (Type 2A)

1. **When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".**
2. **Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**
3. **RESISTORS:**
   Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
   Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
   Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.
4. **CAPACITORS:**
   Unit: p:pF or μF unless otherwise noted.
   Ratings: capacitor (μF)/ voltage (V) unless otherwise noted.
   Rated voltage: 50V except for electrolytic capacitors.
5. **COILS:**
   Unit: m:mH or μH unless otherwise noted.
6. **VOLTAGE AND CURRENT:**
   ⊐ or ⊢ V :
   DC voltage (V) at no input signal unless otherwise noted.
   ⇦ mA or ⊢ mA :
   DC current at no input signal unless otherwise noted.
7. **OTHERS:**
   - ⊘ or ⊘ : Adjusting point.
   - : Measurement point.
   - The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
8. **SCH-□ ON THE SCHEMATIC DIAGRAM:**
   - SCH-□ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)
9. **SWITCHES** (Underline indicates switch position):

S101:	AUDIO/VIDEO	S26:	CENTER LEVEL-REAR LEVEL +
S102:	LEARN·RESET	S27:	EFECT LEVEL −
S1:	RECEIVER POWER	S28:	EFECT LEVEL +
S2:	MUTING	S29:	FUNCTION
S3:	MUSTER VOLUME −	S30:	TAPE2 MONITOR
S4:	MUSTER VOLUME +	S31:	DIRECT V.SEL
S5:	TV POWER	S32:	SLEEP RETURN
S6:	1	S33:	DISC SELECT − (DISC SIDE A) CD/LD
S7:	2	S34:	DISC SELECT + (DISC SIDE B) CD/LD
S8:	3	S35:	DECK I (VCR CH −) TAPE/VCR
S9:	BAND TV FUNC	S36:	DECK II (VCR CH +) TAPE/VCR
S10:	4 TUNER/TV	S37:	■ CD/LD
S11:	5	S38:	▶ CD/LD
S12:	6	S39:	◀ TAPE/VCR
S13:	0/10	S40:	▶ TAPE/VCR
S14:	7	S41:	⏮(◀◀) CD/LD
S15:	8	S42:	⏭(▶▶) CD/LD
S16:	9	S43:	◀◀ TAPE/VCR
S17:	FREQUENCY TV VOLUME −	S44:	▶▶ TAPE/VCR
S18:	FREQUENCY TV VOLUME +	S45:	POWER CD/LD
S19:	STATION TV CHANNEL −	S46:	⏸ CD/LD
S20:	STATION TV CHANNEL +	S47:	■ TAPE/VCR
S21:	SURR MODE	S48:	POWER TAPE/VCR
S22:	3CH LOGIC	S49:	ASC1
S23:	TEST TONE	S50:	ASC2
S24:	CENTER MODE (DELAY TIME)	S51:	TAPE SELECT TV/VCR
S25:	CENTER LEVEL·REAR LEVEL −		

SCH-13

NOTE
- : Indicates a chip resistor.
- : Indicates a chip capacitor.
- : Indicates a chip transistor.
- : Indicates a chip diode.



SCHEMATIC DIAGRAM
[For CU-VSX084 (AXD1385)]

SCH-13

SCHEMATIC DIAGRAM
[For CU-VSX084 (AXD1385)]

SCH-13

■ PCB PATTERN

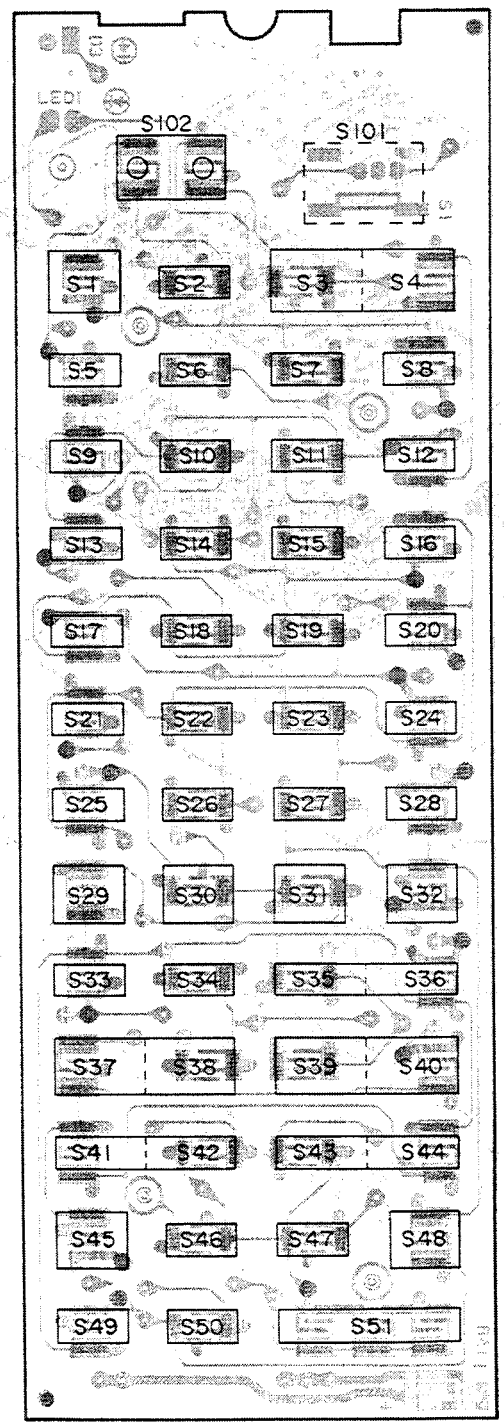
: Indicates a chip resistor.

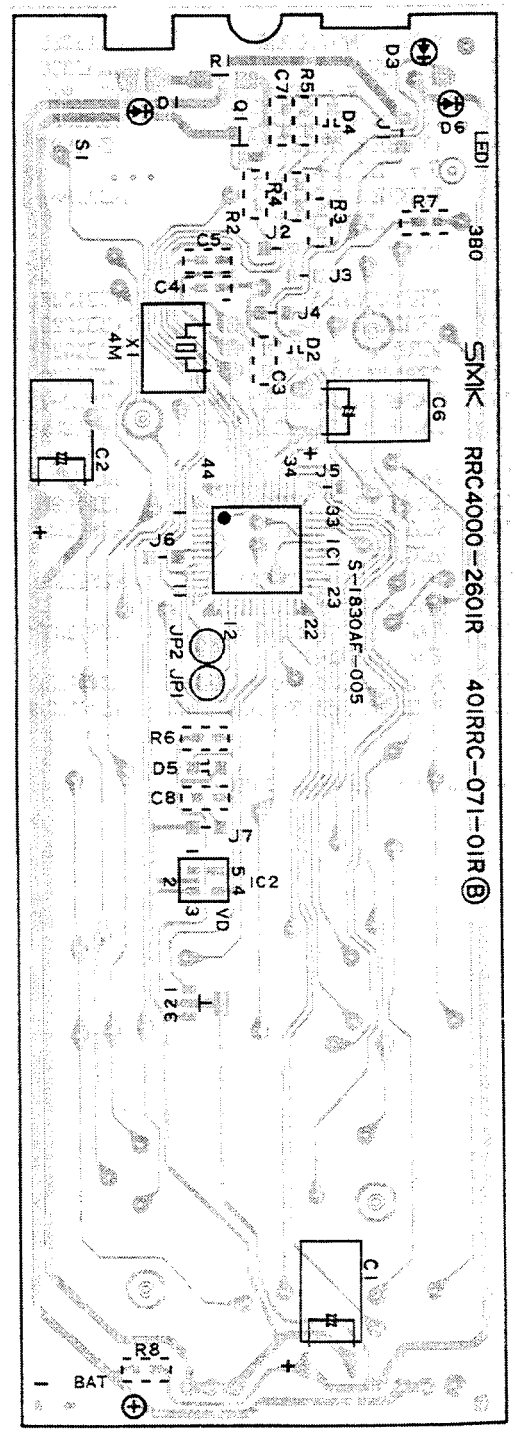
: Indicates a chip capacitor.

: Indicates a chip transistor.

: Indicates a chip diode.

PCB-12





10.2 FOR CU-VSX079 (AXD1394) AND CU-VSX080 (AXD1393)

■ EXPLODED VIEW AND PARTS LIST

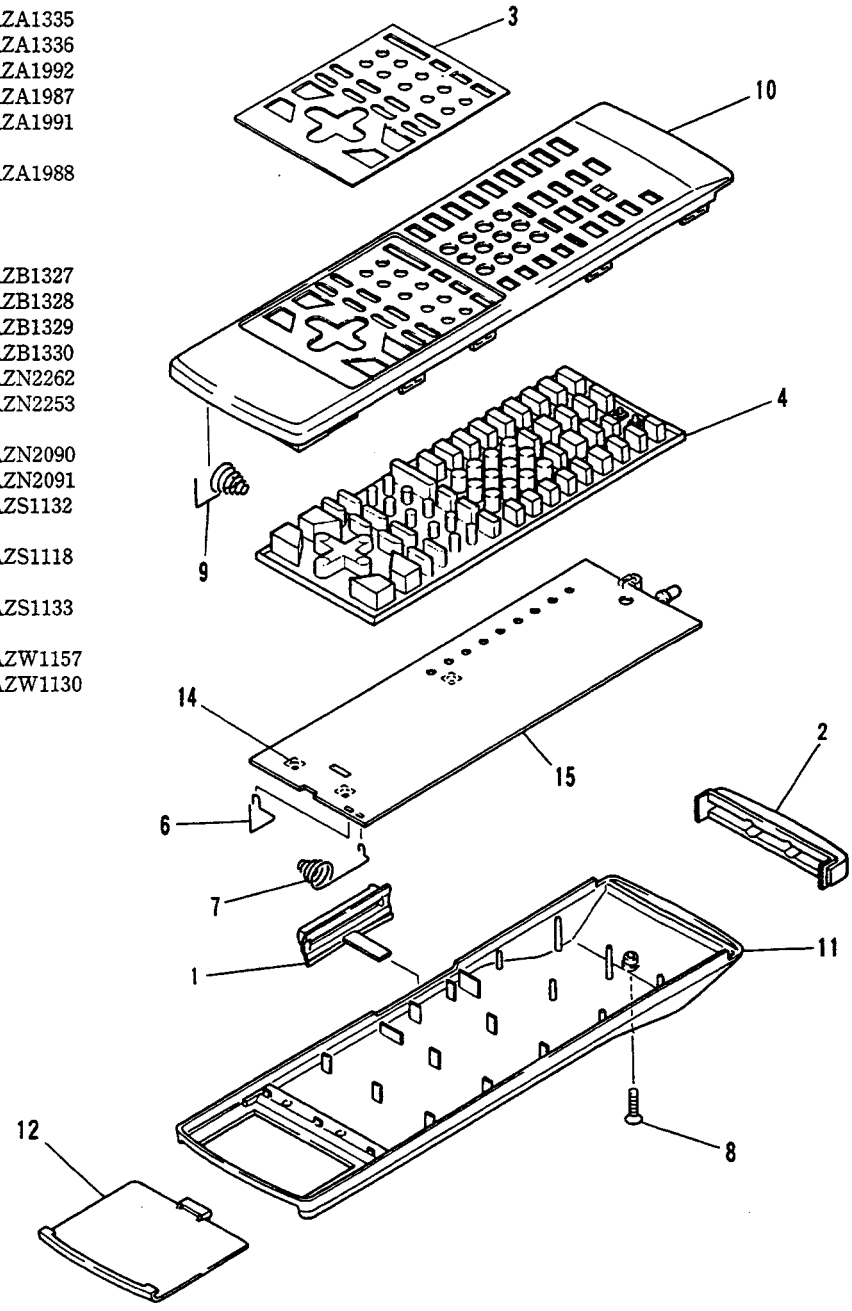
NOTES:

- *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.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

Parts List

Mark	No.	Description	Parts No.
	1	MODE CHECK KEY	AZA1335
	2	FILTER	AZA1336
	3	PLATE (For AXD1394)	AZA1992
	3	PLATE (For AXD1393)	AZA1987
	4	RUBBER SHEET (For AXD1394)	AZA1991
	4	RUBBER SHEET (For AXD1393)	AZA1988
	5	.....	
	6	TERMINAL (+)	AZB1327
	7	TERMINAL (−)	AZB1328
	8	SCREW	AZB1329
	9	TERMINAL (C)	AZB1330
	10	CASE (A) (For AXD1394)	AZN2262
	10	CASE (A) (For AXD1393)	AZN2253
	11	CASE (B)	AZN2090
	12	BATTERY COVER	AZN2091
	13	SLIDE SW (S101) (AXD1394 only)	AZS1132
	14	TACT SW (S102, S10, S14) (For AXD1394)	AZS1118
	14	TACT SW (S102, S10, S14) (For AXD1393)	AZS1133
NSP	15	P. C. BOARD (For AXD1394)	AZW1157
NSP	15	P. C. BOARD (For AXD1393)	AZW1130

Note: The illustration shows AXD1394.



■ 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.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10¹ → 561 ..... RD1/8PM 5 6 1 J
47k Ω → 47 × 10³ → 473 ..... RD1/4PS 4 7 3 J
0.5 Ω → 0R5 ..... RN2H 0 R 5 K
1 Ω → 010 ..... RS1P 0 1 0 K

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

5.62k Ω → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	IC1	μ-COM	ACM001-042
	IC2	IC	AZC1564
	IC3	LOGIC IC	TC74HC138AF-TB
	Q1, 2	CHIP TRANSISTOR	2SC3052E
	Q3, 4	TRANSISTOR	2SD1622
	D1-6	DIODE	DWA010-TE
	D9-17	LED	AZC1573
	D7	LED	SLR-938C
	D8	DIODE	SPS-503C-3
CAPACITORS			
	C1, 2	CERAMIC CAPACITOR	CCDSL330J50
	C3	CERAMIC CAPACITOR	CCDSL221J50
	C4	CERAMIC CAPACITOR	CKDYX104M25
	C5	ELECT. CAPACITOR	CEAS470M10
	C6	CERAMIC CAPACITOR	CKDYB103K50
	C7	ELECT. CAPACITOR	CEAS221M10
	C8	ELECT. CAPACITOR	CEAS4R7M50
RESISTORS			
	R7, 8	CARBON FILM RESISTOR	RD1/4PMFL1R5J
		Other resistors	RD1/8PM□□□J
OTHERS			
	X1	RESONATOR	AZC1570

PCB PATTERN

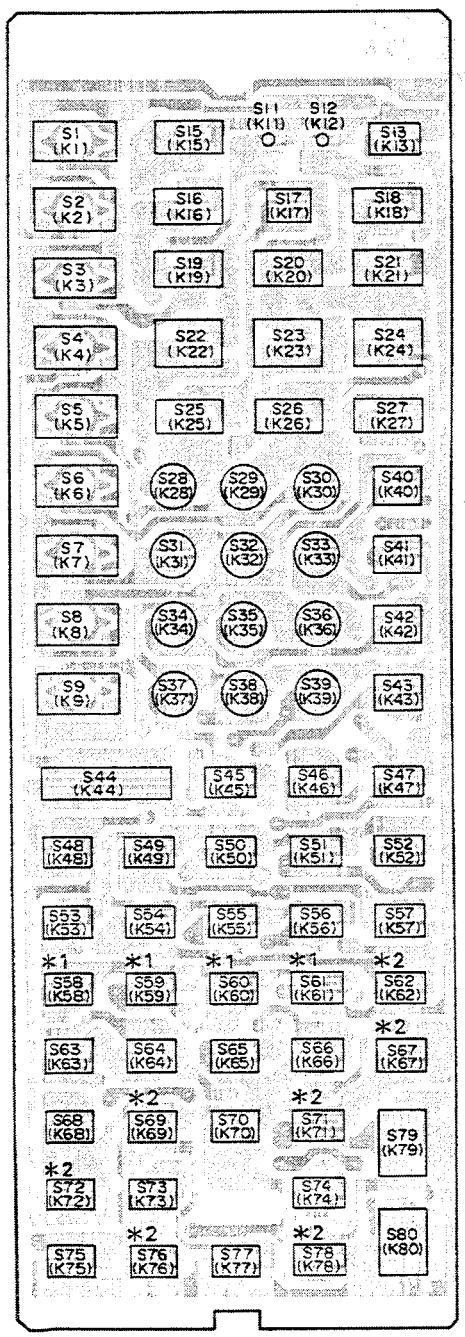
: Indicates a chip resistor.

: Indicates a chip capacitor.

: Indicates a chip transistor.

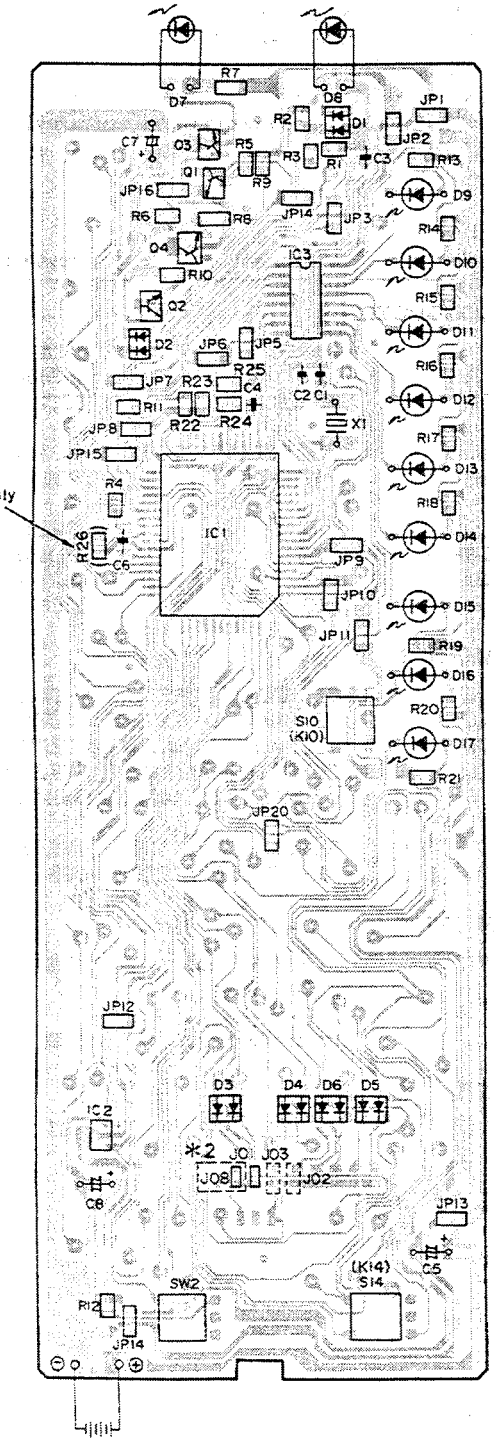
: Indicates a chip diode.

PCB-13



*1 : AXD1394 only
*2 : AXD1393 only

One time version only

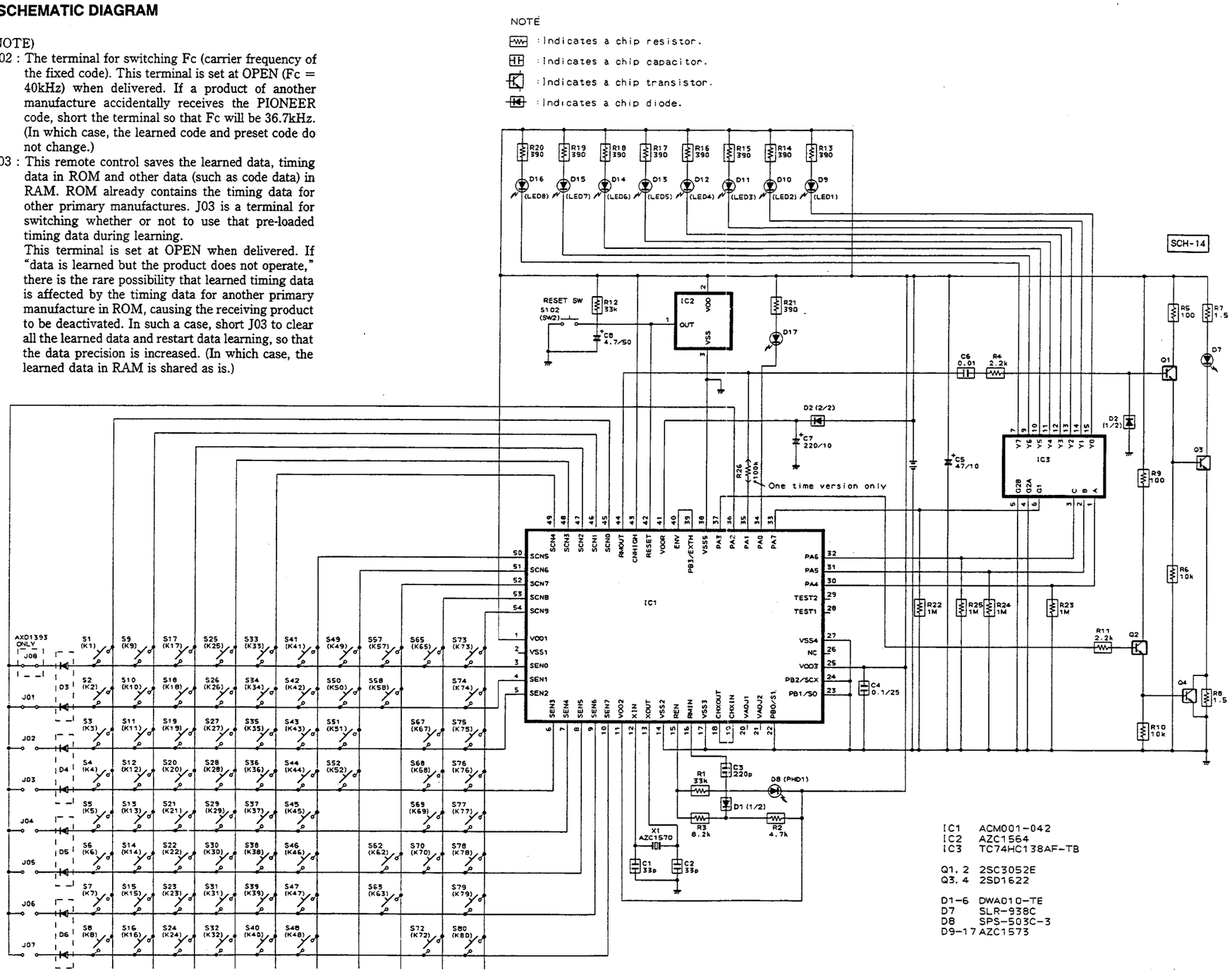


■ SCHEMATIC DIAGRAM

NOTE)

J02 : The terminal for switching Fc (carrier frequency of the fixed code). This terminal is set at OPEN (Fc = 40kHz) when delivered. If a product of another manufacture accidentally receives the PIONEER code, short the terminal so that Fc will be 36.7kHz. (In which case, the learned code and preset code do not change.)

J03 : This remote control saves the learned data, timing data in ROM and other data (such as code data) in RAM. ROM already contains the timing data for other primary manufactures. J03 is a terminal for switching whether or not to use that pre-loaded timing data during learning.
This terminal is set at OPEN when delivered. If "data is learned but the product does not operate," there is the rare possibility that learned timing data is affected by the timing data for another primary manufacture in ROM, causing the receiving product to be deactivated. In such a case, short J03 to clear all the learned data and restart data learning, so that the data precision is increased. (In which case, the learned data in RAM is shared as is.)



SWITCHES

S101 : CENT. · BAL. / REAR · REAR BAL.
S102 : RESET
S1 : VCR1
S2 : VCR2
S3 : LD
S4 : TV
S5 : CD
S6 : TUNER
S7 : DECK I
S8 : DECK II
S9 : DAT
S10 : MODE CHECK
S11 : LEARN
S12 : EDIT
S13 : MULTI COMMAND
S14 : M.CLEAR
S15 : POWER
S16 : ⏮
S17 : REC
S18 : ⏭
S19 : ⏪
S20 : ◀ (SEARCH)
S21 : ▶▶
S22 : ⏸
S23 : ■
S24 : ▶
S25 : TV/VCR (+10)
S26 : SELECT (DISP)
S27 : TV FUNC (BAND)
S28 : 1
S29 : 2
S30 : 3
S31 : 4
S32 : 5
S33 : 6
S34 : 7
S35 : 8
S36 : 9
S37 : 10/0
S38 : 11/PGM
S39 : 12/CLEAR
S40 : TV VOL/DISC SEL +
S41 : TV VOL/DISC SEL −
S42 : FREQ/CH (∧)
S43 : FREQ/CH (∨)
S44 : RECEIVER POWER
S45 : AUTO SOURCE CONTROL 1
S46 : AUTO SOURCE CONTROL 2
S47 : SLEEP
S48 : TAPE1
S49 : TAPE2
S50 : PHONO
S51 : TUNER
S52 : CD
S53 : VCR1
S54 : VCR2
S55 : VIDEO
S56 : TV
S57 : LD
S58 : RETURN
S59 : DIRECT (AXD1394 ONLY)
S60 : V.SEL
S61 : S.BASS
S62 : S.BASS (AXD1393 ONLY)
S63 : SURR.MODE (FOR AXD1394)
S63 : RETURN (FOR AXD1393)
S64 : 3CH LOGIC (FOR AXD1394)
S64 : DIRECT (FOR AXD1393)
S65 : DELAY TIME (FOR AXD1394)
S65 : V.SEL (FOR AXD1393)
S66 : MUTING (FOR AXD1394)
S66 : DISPLAY (FOR AXD1393)
S67 : MUTING (AXD1393 ONLY)
S68 : GRAPHIC (FOR AXD1394)
S68 : SURR.MODE (FOR AXD1393)
S69 : 3CH LOGIC (AXD1393 ONLY)
S70 : ▲ (FOR AXD1394)
S70 : CENT.MODE (FOR AXD1393)
S71 : TEST TONE (AXD1393 ONLY)
S72 : REAR LEVEL + (AXD1393 ONLY)
S73 : ◀ (FOR AXD1394)
S73 : CENTER LEVEL + (FOR AXD1393)
S74 : ▶ (FOR AXD1394)
S74 : EFFECT LEVEL + (FOR AXD1393)
S75 : ENTER (FOR AXD1394)
S75 : REAR LEVEL − (FOR AXD1393)
S76 : CENTER LEVEL − (AXD1393 ONLY)
S77 : ▼ (FOR AXD1394)
S77 : DELAY TIME (FOR AXD1393)
S78 : EFFECT LEVEL − (AXD1393 ONLY)
S79 : MASTER VOLUME +
S80 : MASTER VOLUME −

SCH-14 SCHEMATIC DIAGRAM
[For CU-VSX079 (AXD1394)]
[For CU-VSX080 (AXD1393)]

SCHEMATIC DIAGRAM
[For CU-VSX079 (AXD1394)]
[For CU-VSX080 (AXD1393)]
SCH-14

11. FOR VSX–D903S/KC, SD, VSX–D933S/HL, VSX–D603S/SD, VSX–D613S/KC AND VSX–D633S/HL

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.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10¹ → 561 ····· RD1/8PM 5 6 1 J
47k Ω → 47 × 10³ → 473 ····· RD1/4PS 4 7 3 J
0.5 Ω → 0R5 ····· RN2H 0 R 5 K
1 Ω → 010 ····· RS1P 0 1 0 K

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

5.62k Ω → 562 × 10¹ → 5621 ····· RN1/4PC 5 6 2 1 F

11.1 CONTRAST OF MISCELLANEOUS PARTS FOR VSX–D903S/KC, SD AND VSX–D933S/HL

VSX-D903S/KC, SD, VSX-D933S/HL and VSX-D903S/KU have the same construction except for the following :

Mark	Symbol & Description	Part No.				Remarks
		VSX-D903S /KU	VSX-D903S /KC	VSX-D903S /SD	VSX-D933S /HL	
NSP	POWER SUPPLY AMP ASSY	AWK1789	AWK1789	AWK1790	AWK1791	
	POWER AMP ASSY	AWZ5402	AWZ5402	AWZ5402	AWZ5594	
	POWER SUPPLY ASSY	AWZ5404	AWZ5404	AWZ5404	AWZ5410	
	PRIM ASSY	AWZ5405	AWZ5405	AWZ5409	AWZ5411	
NSP	R. C. SP ASSY	AWZ5408	AWZ5408	AWZ5408	AWZ5726	
	SW ASSY	AWZ5412	AWZ5412	AWZ5412	·····	
NSP	SMALL SIGNAL ASSY	AWK1796	AWK1796	AWK1796	AWK1866	
	TONE ASSY	AWZ5420	AWZ5420	AWZ5420	AWZ5723	
	VOL ASSY	AWZ5421	AWZ5421	AWZ5421	AWZ5724	
⚠	Capacitor (C1 : 0.1 μ , 250V)	·····	·····	ACE-507	·····	* 1
⚠	Power transformer (T1) (AC120V)	ATS1545	ATS1545	·····	·····	
⚠	Power transformer (T1) (AC110V/120-127V/220V/240V)	·····	·····	ATS1546	·····	
⚠	Power transformer (T1) (AC220-230V/240V)	·····	·····	·····	ATS1548	
⚠	Voltage selector (S1) (AC110V/120-127V/220V/240V)	·····	·····	AKX-507	·····	* 1
⚠	Voltage selector (S2) (AC110V, 120-127V/220V, 240V)	·····	·····	AKX1004	·····	* 1
⚠	Slide switch (S3) (CHANNEL STEP/FM DE-EMPHASIS)	·····	·····	ASH1044	·····	* 1
⚠	Fuse holder	·····	·····	AKR1005	·····	* 1
⚠	Fuse (10A, 125V) (FU1)	AEK1035	AEK1035	·····	·····	
⚠	Fuse (T4A, 250V) (FU1)	·····	·····	·····	AEK-514	
⚠	Fuse (5A, 125V) (FU1, FU2)	·····	·····	AEK-126	·····	* 1
⚠	Fuse (4A, 125V) (FU3, FU4)	AEK-125	AEK-125	AEK-125	·····	
⚠	Fuse (T3.15A, 250V) (FU3, FU4)	·····	·····	·····	AEK-513	
⚠	Fuse (1.6A, 125V) (FU5, FU6)	AEK-121	AEK-121	AEK-121	·····	
⚠	Fuse (T1.6A, 250V) (FU5, FU6)	·····	·····	·····	AEK-510	
⚠	AC power cord	ADG1146	ADG1146	ADG1051	ADG1049	
	Rear panel	ANC2197	ANC2197	ANC2198	ANC2199	

* 1 : Refer to the section " 3.2 INTERIOR ".

Mark	Symbol & Description	Part No.				Remarks
		VSX-D903S /KU	VSX-D903S /KC	VSX-D903S /SD	VSX-D933S /HL	
NSP	Fuse holder fitting metal	·····	·····	ANG-528	·····	* 1
NSP	Earth plate	·····	·····	ANK1257	ANK1257	* 1
⚠	AC cord stopper	AEP-113	AEP-113	AEC-882	AEC-882	
NSP	Barrier	·····	·····	AEC1412	·····	* 1
	65 label	ORW1069	·····	·····	·····	
	Screw	VMZ26P040FZK	VMZ26P040FZK	VMZ26P040FZK	·····	
	Front panel	AMB2492	AMB2492	AMB2492	AMB2510	
	Operating instructions (English)	ARB1489	ARB1489	ARB1489	·····	
	Operating instructions (English, Chinese)	·····	·····	·····	ARE1319	
	Operating instructions (Spanish, Chinese)	·····	·····	ARC1479	·····	
	Operating instructions (French)	·····	ARC1478	·····	·····	
	Packing case	AHD2766	AHD2766	AHD2767	AHD2768	

* 1 : Refer to the section " 3.2 INTERIOR ".

POWER AMP ASSY

AWZ5594 and AWZ5402 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5402	AWZ5594	
	C113, C114	CCCSL150K500	CCCSL330K500	
	C115, C116	·····	CCCSL330K500	
	C125, C126, C173, C214	CFTXA473J50	CFTXA104J50	
	C127, C128, C174, C215	·····	CFTXA104J50	
	C167, C208	CCCSL220K500	CCCSL470K500	
	C168, C209	·····	CCCSL470K500	
	R121, R122, R171	RD1/4PMF680J	RD1/4PMFL680J	
	R129-R132, R175, R176	RD1/4PMF101J	RD1/4PMFL101J	
	R139-R142, R180, R181, R220, R221	RD1/4PMF4R7J	RD1/4PMFL4R7J	
	R147, R148, R184, R223	RD1/4PMF100J	RD1/4PMFL100J	

POWER SUPPLY ASSY

AWZ5410 and AWZ5404 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5404	AWZ5410	
	Q361	XDC143ES	·····	
	D352	D5SB20F	·····	
	D361	HSS104-02	·····	
	RY361, RY362	ASR1027	·····	
	C352 (0.01 μ , AC250V)	ACG1005	·····	
	R361	RS1PMF471J	·····	

PRIM ASSY

AWZ5409, AWZ5411 and AWZ5405 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AWZ5405	AWZ5409	AWZ5411	
⚠	T51	ATT1011	ATT1193	ATT1193	
⚠	R52 (2.2M Ω , 1/2W)	ACN-208	• • • • •	• • • • •	
⚠	AC OUTLET (3P)	AKP1053	AKP1053	• • • • •	

R. C. SP ASSY

AWZ5726 and AWZ5408 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5408	AWZ5726	
	R271	RD1/8PM222J	RD1/8PM332J	

TONE ASSY

AWZ5723 and AWZ5420 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5420	AWZ5723	
	R603, R604 R613, R614	RS1/10S562J RD1/8PM334J	RS1/10S113J RD1/8PM624J	

VOL ASSY

AWZ5724 and AWZ5421 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5421	AWZ5724	
	R5573, R5574 R5583, R5584	RD1/8PM562J RD1/8PM334J	RD1/8PM113J RD1/8PM624J	

11.2 CONTRAST OF MISCELLANEOUS PARTS FOR VSX-D603S/SD, VSX-D613S/KC AND VSX-D633S/HL

VSX-D603S/SD, VSX-D613S/KC, VSX-D633S/HL and VSX-D603S/KU have the same construction except for the following :

Mark	Symbol & Description	Part No.				Remarks
		VSX-D603S /KU	VSX-D603S /SD	VSX-D613S /KC	VSX-D633S /HL	
NSP	POWER SUPPLY AMP ASSY	AWK1794	AWK1795	AWK1794	AWK1793	
	POWER AMP ASSY	AWZ5402	AWZ5402	AWZ5402	AWZ5594	
	POWER SUPPLY ASSY	AWZ5437	AWZ5437	AWZ5437	AWZ5410	
	PRIM ASSY	AWZ5405	AWZ5409	AWZ5405	AWZ5411	
NSP	R. C. SP ASSY	AWZ5414	AWZ5414	AWZ5414	AWZ5727	
NSP	SMALL SIGNAL ASSY	AWK1799	AWK1799	AWK1799	AWK1867	
	TONE ASSY	AWZ5426	AWZ5426	AWZ5426	AWZ5725	
	VOL ASSY	AWZ5421	AWZ5421	AWZ5421	AWZ5724	
⚠	Capacitor (C1 : 0.1 μ, 250V)	•••••	ACE-507	•••••	•••••	*1
⚠	Power transformer (T1) (AC120V)	ATS1545	•••••	ATS1545	•••••	
⚠	Power transformer (T1) (AC110V/120-127V/220V/240V)	•••••	ATS1546	•••••	•••••	
⚠	Power transformer (T1) (AC220-230V/240V)	•••••	•••••	•••••	ATS1548	
⚠	Voltage selector (S1) (AC110V/120-127V/220V/240V)	•••••	AKX-507	•••••	•••••	*1
⚠	Voltage selector (S2) (AC110V, 120-127V/220V, 240V)	•••••	AKX1004	•••••	•••••	*1
⚠	Slide switch (S3) (CHANNEL STEP/FM DE-EMPHASIS)	•••••	ASH1044	•••••	•••••	*1
⚠	Fuse holder	•••••	AKR1005	•••••	•••••	*1
⚠	Fuse (10A, 125V) (FU1)	AEK1035	•••••	AEK1035	•••••	
⚠	Fuse (T4A, 250V) (FU1)	•••••	•••••	•••••	AEK-514	
⚠	Fuse (5A, 125V) (FU1, FU2)	•••••	AEK-126	•••••	•••••	*1
⚠	Fuse (4A, 125V) (FU3, FU4)	AEK-125	AEK-125	AEK-125	•••••	
⚠	Fuse (T3.15A, 250V) (FU3, FU4)	•••••	•••••	•••••	AEK-513	
⚠	Fuse (1.6A, 125V) (FU5, FU6)	AEK-121	AEK-121	AEK-121	•••••	
⚠	Fuse (T1.6A, 250V) (FU5, FU6)	•••••	•••••	•••••	AEK-510	
⚠	AC power cord	ADG1146	ADG1051	ADG1146	ADG1049	
	Rear panel	ANC2193	ANC2194	ANC2193	ANC2235	
NSP	Fuse holder fitting metal	•••••	ANG-528	•••••	•••••	*1
⚠	AC cord stopper	AEP-113	AEC-882	AEP-113	AEC-882	
NSP	Barrier	•••••	AEC1412	•••••	•••••	*1
	65 label	ORW1069	•••••	•••••	•••••	
	Screw	•••••	VMZ26P040FZK	•••••	•••••	*1(No.106)
	Front panel	AMB2488	AMB2488	AMB2491	AMB2518	
	Operating instructions (English)	ARB1477	ARB1477	•••••	•••••	
	Operating instructions (English, French)	•••••	•••••	ARE1310	•••••	
	Operating instructions (English, Chinese)	•••••	•••••	•••••	ARE1320	
	Operating instructions (Spanish, Chinese)	•••••	ARC1468	•••••	•••••	
	Remote control unit (CU-VSX084)	AXD1385	AXD1385	•••••	AXD1385	
	Remote control unit (CU-VSX080)	•••••	•••••	AXD1393	•••••	
NSP	Alkaline (LR03, AAA)	AEX1006	AEX1006	•••••	AEX1006	
NSP	Alkaline (LR6, AA)	•••••	•••••	AEX1007	•••••	
	Packing case	AHD2753	AHD2754	AHD2755	AHD2770	
	Battery cover (For remote control unit)	AZN2256	AZN2256	AZN2091	AZN2256	

* 1 : Refer to the section " 3.2 INTERIOR ".

POWER AMP ASSY

AWZ5594 and AWZ5402 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5402	AWZ5594	
	C113, C114	CCCSL150K500	CCCSL330K500	
	C115, C116	• • • • •	CCCSL330K500	
	C125, C126, C173, C214	CFTXA473J50	CFTXA104J50	
	C127, C128, C174, C215	• • • • •	CFTXA104J50	
	C167, C208	CCCSL220K500	CCCSL470K500	
	C168, C209	• • • • •	CCCSL470K500	
	R121, R122, R171	RD1/4PMF680J	RD1/4PMFL680J	
	R129-R132, R175, R176	RD1/4PMF101J	RD1/4PMFL101J	
	R139-R142, R180, R181, R220, R221	RD1/4PMF4R7J	RD1/4PMFL4R7J	
	R147, R148, R184, R223	RD1/4PMF100J	RD1/4PMFL100J	

POWER SUPPLY ASSY

AWZ5410 and AWZ5437 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5437	AWZ5410	
	Q361	XDC143ES	• • • • •	
	D352	D5SB20F	• • • • •	
	D361	HSS104-02	• • • • •	
	RY361, RY362	ASR1027	• • • • •	
	C352 (0.01 μ , AC250V)	ACG1005	• • • • •	
	R361	RS1PMF471J	• • • • •	

PRIM ASSY

AWZ5409, AWZ5411 and AWZ5405 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AWZ5405	AWZ5409	AWZ5411	
⚠	T51	ATT1011	ATT1193	ATT1193	
⚠	R52 (2.2M Ω , 1/2W)	ACN-208	• • • • •	• • • • •	
⚠	AC OUTLET (3P)	AKP1053	AKP1053	• • • • •	

R. C. SP. ASSY

AWZ5727 and AWZ5414 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5414	AWZ5727	
	R271	RD1/8PM222J	RD1/8PM332J	

TONE ASSY

AWZ5725 and AWZ5426 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ5426	AWZ5725	
	R603, R604 R613, R614	RS1/10S562J RD1/8PM334J	RS1/10S113J RD1/8PM624J	

VOL ASSY

AWZ5724 and AWZ5421 have the same construction except for the following :

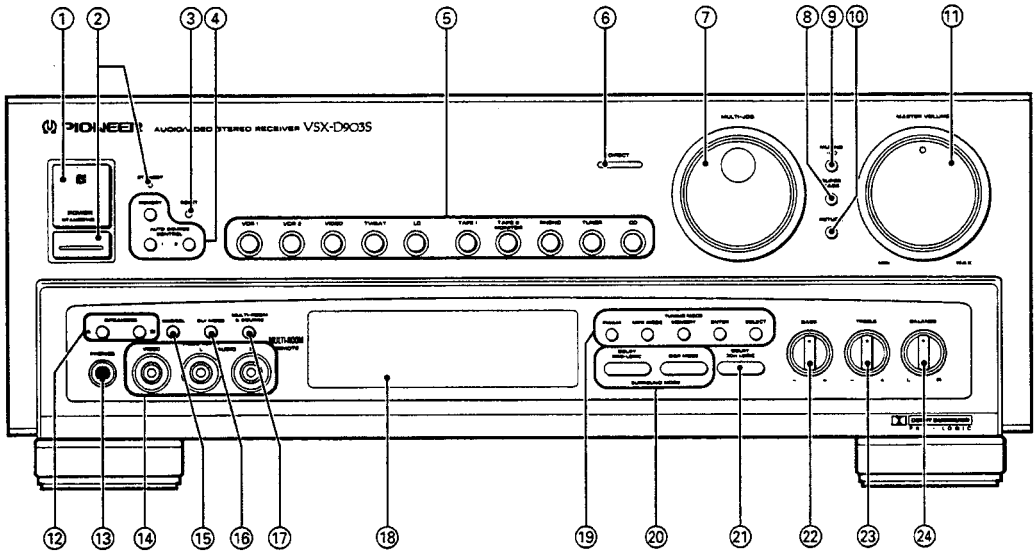
Mark	Symbol & Description	Part No.		Remarks
		AWZ5421	AWZ5724	
	R5573, R5574 R5583, R5584	RD1/8PM562J RD1/8PM334J	RD1/8PM113J RD1/8PM624J	

12. PANEL FACILITIES

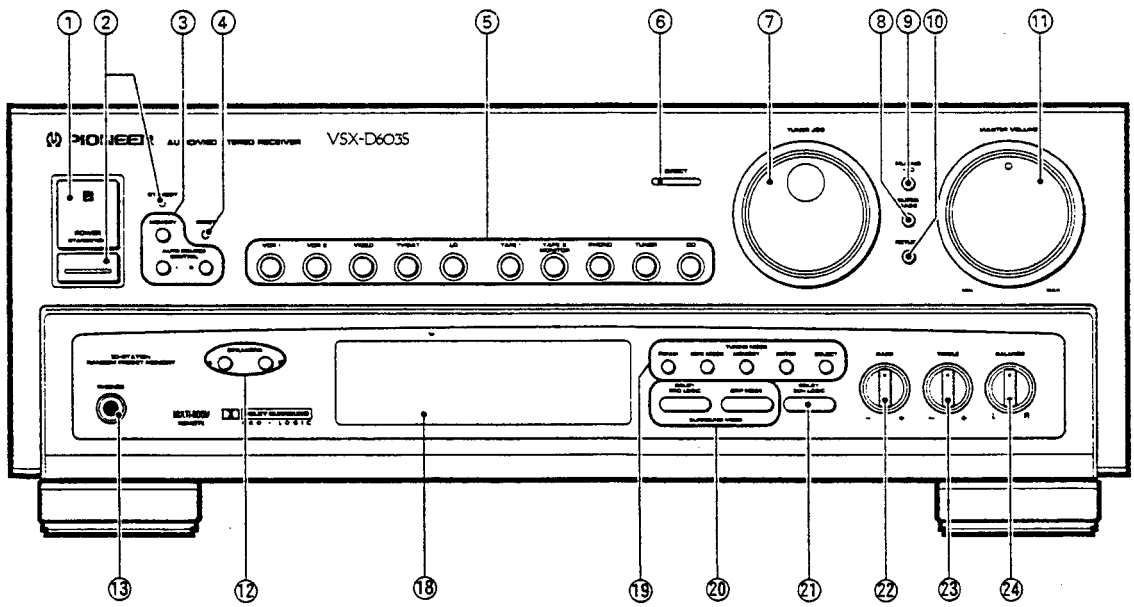
12.1 FRONT PANEL FACILITIES

■ FOR VSX-D903S, VSX-53 AND VSX-D703S MODELS

•Illustration shows VSX-D903S model.



■ FOR VSX-D603S MODEL



① Remote sensor

② POWER STANDBY/ON switch/STANDBY indicator

This is the switch for electric power.

ON : When set to the ON position, power is supplied and the unit becomes operational.

STANDBY : When set to STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

The STANDBY indicator lights when the power is STANDBY, and goes out during ON.

[Timer ON/OFF possible]

When the unit is switched ON, ON/OFF control can be performed by means of the optional timer.

NOTE:

When the power is initially turned ON, muting will be applied to prevent sound from being output for about 5 seconds.

③ RESET button

Use this when normal operation becomes impossible because of external influences such as static electricity or lightning, or when operation is impossible even when operation buttons are pressed. Press this button to return to normal operating conditions. (The input selector automatically switches to TUNER, and SPEAKERS A and B switch off.)

If you press this button when the power is ON, the unit switches to POWER STANDBY.

④ AUTO SOURCE CONTROL/MEMORY buttons

1, 2 buttons:

These buttons are for memorizing and recalling your current settings. Both 1 and 2 can be used to memorize settings. If you connect another component, such as a CD player, to the CONTROL OUT jack on the rear panel, the signals to switch power on and start play are also transmitted.

MEMORY:

Use when memorizing settings to a 1, 2 button.

⑤ Input selector buttons

VCR 1 : Press when performing playback on a first VCR unit.

VCR 2 : Press when performing playback on a second VCR unit.

VIDEO : Press when performing playback on a VCR connected to VIDEO INPUT jacks on the front panel.

TV/SAT : Press when using a TV tuner connected to the TV/SAT jacks.

LD : Press when performing playback on an LD player.

TAPE 1 : Press when performing playback on a cassette deck.

TAPE 2 MONITOR : Press when performing playback on a second cassette deck and when monitoring recording.

PHONO : Press when playing records on turntable.

TUNER : Press when listening to radio broadcasts.

CD : Press when playing compact discs on a CD player.

⑥ DIRECT button

Press this to listen to source sound without passing the audio signal through sound quality and balance adjusting circuitry.

The surround mode, super bass, and rear and center speakers are automatically switched off.

⑦ MULTI-JOG (VSX-D903S model only)

Use during tuner operation to select frequencies and station numbers. During GUI operation, use to move the on-screen cursor.

⑦ TUNER JOG

(VSX-53, VSX-D703S and VSX-D603S models only)

Use to tune into a broadcast.

⑧ SUPER BASS button

Switch on when you want to boost bass. This does not operate when the DIRECT button is on.

⑨ MUTING button

Press to temporarily cut off the sound volume. When pressed again, the sound will return to its previous level.

⑩ RETURN button

Press this button to return the receiver into the initial state. TUNER is selected at this initial state. Adjust the sound level by using the MASTER VOLUME control.

- TAPE 2 MONITOR ..... OFF
- FUNCTION ..... TUNER
- SURROUND MODE ..... OFF
- V-SIGNAL SELECTOR ..... OFF
- MUTING ..... OFF

And SPEAKERS buttons switch as follows.

Before pressing the RETURN button		After pressing
Both A and B are off	→	Only A is on
Only A is on	→	No change
Only B is on	→	Both A and B are on
Both A and B are on	→	No change

NOTE:

Press the RETURN button, and the frequency last selected is received. If reception of a station is not possible with that frequency, the mode automatically switches to AUTO TUNING.

⑪ MASTER VOLUME control

Use it to simultaneously adjust the sound volume from the front, center, and rear speakers.

⑫ SPEAKERS buttons (A, B)

ON/OFF switches for the A and B speaker systems. (Indicator in the display section lights.)

⑬ PHONES jack

Connect the plug on your headphones to this jack. Set the surround mode and all SPEAKERS A and B switches to OFF if you want to cut the sound from speakers and listen to it only through the headphones.

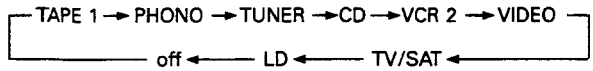
⑭ VIDEO INPUT jacks

(VSX–D903S, VSX–53 and VSX–D703S models only)

VIDEO components such as a VCR or TV camera, etc. can be connected.

⑮ REC SEL (Recording Selector) button

You can select the component to be recorded from, on VCR 1 without using the input selector.
Each time you press the REC SEL button, the components change in the following order.



When the REC SELECTOR has been through all the components once, REC SELECTOR switches off.

⑯ GUI MODE button (VSX–D903S model only)

Switches GUI MODE on and off.

⑯ OSD SUB ROOM button (VSX–53 model only)

Use in combination with the separately sold MR-100 Multi-Room remote control unit.
You can watch the OSD(On Screen Display)on a TV in the sub room.

⑰ MULTI-ROOM & SOURCE button

(VSX–D903S and VSX–53 models only)

Use in combination with the separately sold MR-100 Multi-Room remote control unit.
When this button is on, the source selected with the input selector at that time is set to the Sub room function. The selected sub-function's sound is output through SUB ROOM SPEAKERS, and the video signal is output through the MULTI-ROOM VIDEO OUT jack. If you install speaker systems connected to the MULTI-ROOM SPEAKERS terminals in a different room, you can enjoy different sources in two different rooms with a single main unit.

⑱ Display section

⑲ TUNING MODE buttons

FM/AM : Use this to switch between FM and AM frequency band reception.

MPX MODE : Use to select the auto stereo mode or monaural mode when listening to FM broadcasts. The monaural mode has been selected when the FM MONO indicator in the display section is lit.

Auto stereo mode:
Normally, leave in this mode for reception. When a stereo FM broadcast is received, it will be automatically reproduced in stereo.

Monaural mode:
When receiving distant stations or stations with weak broadcast signals, the input signal may be weak, thus resulting in increased noise during FM stereo broadcasts. In this event, setting the receiver to the monaural mode will reduce the noise. In this case, however, FM stereo broadcasts will be reproduced in monaural sound.

NOTE:
This button has no effect on reception of AM broadcasts.

MEMORY : Press this button to switch to the frequency preset mode.

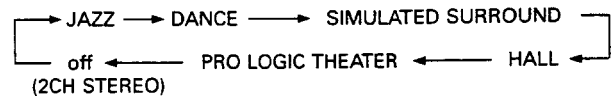
ENTER : If you press this when in the frequency preset mode, the displayed frequency is memorized in the selected station. (Frequency and station indications flash and then light.)

SELECT : Press this to switch to the station mode. Then you can turn the MULTI-JOG to select a station.

⑳ SURROUND MODE buttons

DOLBY PRO-LOGIC:
Switches DOLBY PRO-LOGIC SURROUND on and off.

DSP MODE:
Each time you press it, the mode and the display indications change as follows:



㉑ DOLBY 3CH LOGIC button

Select this setting when stereo-source regeneration and rear speakers are not connected and you wish to use the front L, front R, and center speakers to enjoy audio/visual material bearing the DOLBY SURROUND mark.

㉒ BASS control

Use to adjust the low-frequency level. Turn clockwise to boost bass, and counterclockwise to attenuate bass. This does not operate when the DIRECT button is on.

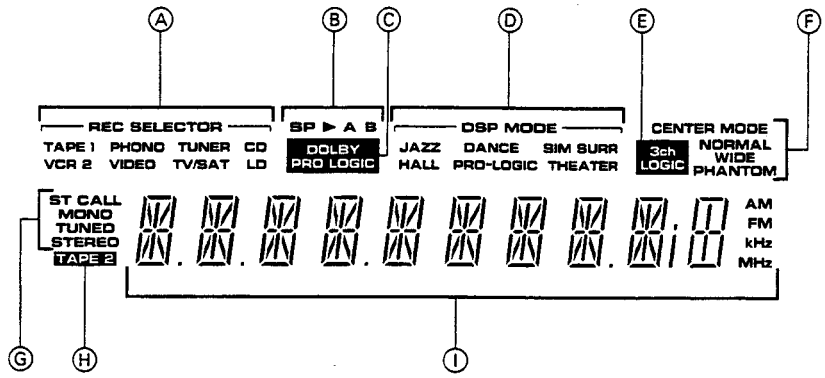
㉓ TREBLE control

Use to adjust the high-frequency level. Turn clockwise to boost treble, and counterclockwise to attenuate treble. This does not operate when the DIRECT button is on.

㉔ BALANCE control

Use to adjust the sound volume balance between left and right speakers. This does not operate when the DIRECT button is on.
L: Decrease the sound on the right side.
R: Decrease the sound on the left side.
Usually, left and right volume levels should be the same.

DISPLAY SECTION



Ⓐ REC SELECTOR indicators

The recording source selected with the REC SEL button is usually displayed.

Ⓑ SP (SPEAKERS) A, B indicators

Shows which speaker system (or systems) are switched on.

Ⓒ DOLBY PRO LOGIC indicator

Ⓓ DSP MODE indicators

Ⓔ DOLBY 3CH LOGIC indicator

Ⓕ CENTER MODE indicators

These display the center mode (NORMAL, WIDE, PHANTOM) during DOLBY PRO-LOGIC SURROUND, PRO LOGIC THEATER and DOLBY 3CH LOGIC operation.

Ⓖ Tuning indicators

ST (STATION) CALL
: Press the SELECT button to switch to the station mode, and this indicator lights.

MONO : Lights up when the FM MONO mode is selected with the MPX MODE button.

TUNED : Lights up when a station is tuned.

STEREO : Lights up when a stereo FM broadcast is being received.

Ⓗ TAPE 2 indicator

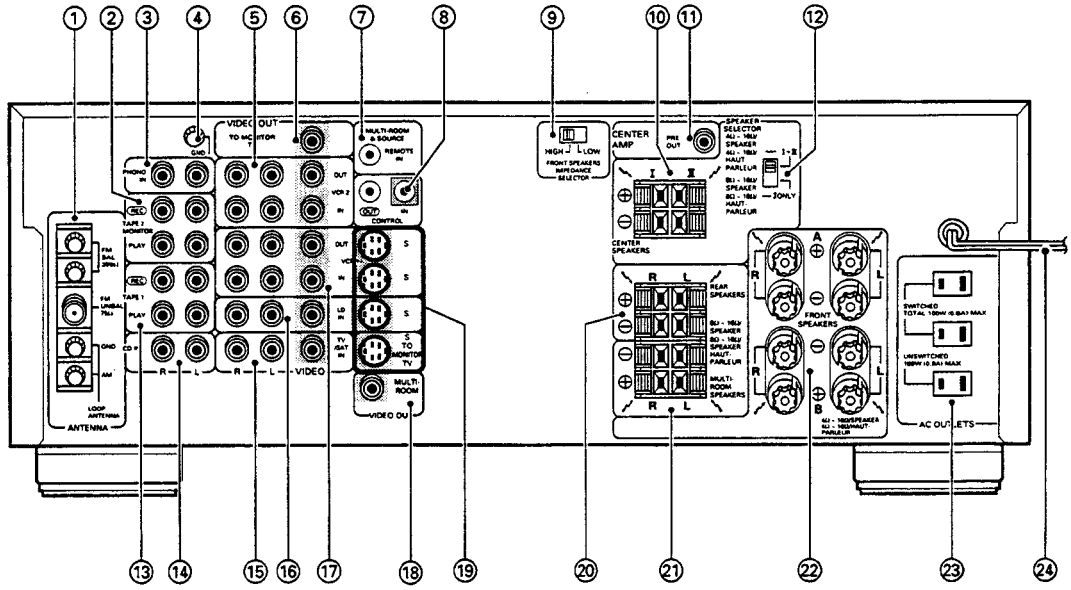
Lights up when the input selector is set to TAPE 2 MONITOR on.

Ⓘ CHARACTER display

12.2 REAR PANEL FACILITIES

■ FOR VSX–D903S AND VSX–53 MODELS

•Illustration shows VSX–D903S U.S. and Canadian model.



① FM/AM ANTENNA terminals

Use these antenna terminals for reception of normal FM and AM broadcasts.

② TAPE 2 MONITOR jacks

Connect the second cassette deck to these jacks.

Connecting for Recording

The tape recording jack (REC) on the cassette deck should be connected to the REC side of the TAPE 2 MONITOR jack on the receiver with a pin plug connecting cord.

Connecting for Playback

Connect the TAPE PLAY jack on the cassette deck to the PLAY side of the TAPE 2 MONITOR jack on the receiver with a pin plug connecting cord.

③ PHONO input jacks

Connect to the output cables from a turntable.

④ GND terminal

Connect the turntable ground lead to this terminal.

⑤ VCR 2 jacks

[VIDEO OUT]

When copying program material from the video component connected to the VCR 1, TV, VIDEO (front) or LD jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.

[AUDIO OUT (L, R)]

When copying program materials from the video component connected to the VCR 1, TV, VIDEO (front) or LD jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

[VIDEO IN]

When monitoring the video image from a VCR used for copying, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

When monitoring the audio channel from a VCR used for copying, connect its AUDIO OUTPUT jacks here.

⑥ VIDEO OUT (TO MONITOR TV) jack

Connect to monitor TV or to TV sets with video input terminals for watching program materials from a VCR 1, 2, TV, VIDEO (front) or LD player connected to this unit.

⑦ MULTI-ROOM & SOURCE REMOTE IN jack

When using the MULTI-ROOM & SOURCE function, connect to the separately sold MR-100 Multi-Room remote control unit.

⑧ CONTROL IN/OUT jacks

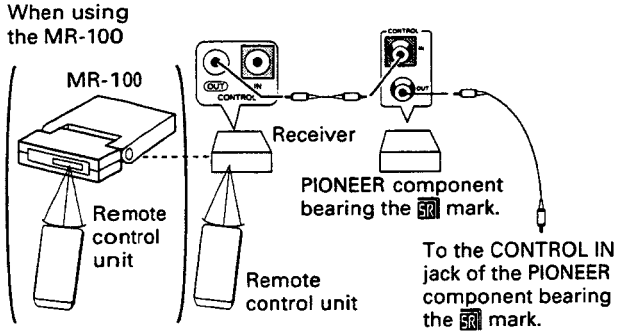
IN : Connect this jack to other PIONEER components (main unit or remote control unit) when using those components to control this unit.

OUT : Connect this jack to other PIONEER components when using the remote control of this unit to control the other components.

NOTE:

The receiver's remote sensor does not function when a plug is inserted in the IN jack. To operate, point the remote control unit at the remote sensor on the component to which the receiver's IN jack is connected.

When using the MR-100



⑨ FRONT SPEAKERS IMPEDANCE SELECTOR switch

Set this switch to match the nominal impedance of your front speakers.

NOTE:

Turn off the receiver's power before changing the impedance selector switch setting.

⑩ CENTER SPEAKERS terminals

Connect the center speaker to these terminals.
You can connect two speakers for dual center, so you can locate speakers on both sides of the TV.

Speaker impedance:

Refer to ⑫ CENTER SPEAKER SELECTOR switch.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.

⑪ CENTER AMP PRE OUT jack

When a separate power amplifier is used to drive the surround center speaker, connect the power amplifier to this jack.

⑫ CENTER SPEAKER SELECTOR switch

This switch changes the speaker impedance for when only one center speaker is connected, or two speakers are connected.

When only one speaker is connected:

Be sure to set the switch to "I ONLY" (down side), and always connect a speaker with an impedance of 8 Ω — 16 Ω to the I terminal.

When two speakers are connected:

Be sure to set the switch to "I + II" (up side), and always use speaker swith an impedance of 4 Ω — 16 Ω.

NOTE:

Switch the CENTER SPEAKER SELECTOR when the unit power supply is at STANDBY. Do not switch the selector when the power supply is at ON.

⑬ TAPE 1 jacks

Use these to connect the cassette deck.

Connecting for Recording

The tape recording jack (REC) on the cassette deck should be connected to the REC side of the TAPE 1 jack on the receiver with a pin plug connecting cord.

Connecting for Playback

Connect the PLAY jack on the cassette deck to the PLAY side of the TAPE 1 jack on the receiver with a pin plug connecting cord.

⑭ CD input jacks

Connect to the output jacks of a compact disc player.

⑮ TV/SAT (Satellite) jacks (input)

Use these jacks if you wish to connect a TV tuner with both video and audio outputs.

[VIDEO IN]

Connect the TV tuner's VIDEO OUTPUT to this jack.

[AUDIO IN (L, R)]

Connect the TV tuner's AUDIO OUTPUT to these jacks.

⑯ LD jacks

[VIDEO IN]

When watching the video image from an LD player, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L,R)]

When playing back the audio channel from an LD player, connect its AUDIO OUTPUT jacks here.

⑰ VCR 1 jacks

[VIDEO OUT]

When copying program material from the video component connected to the VCR 2, TV, VIDEO (front) or LD jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.

[AUDIO OUT (L, R)]

When copying program material from the video component connected to the VCR 2, TV, VIDEO (front) or LD jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

[VIDEO IN]

When monitoring the video image from a VCR used for playing, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

When monitoring the audio channel from a VCR used for playing, connect its AUDIO OUTPUT jacks here.

⑱ MULTI-ROOM VIDEO OUT jack

Connect the monitor TV for use in the Sub room.

⑲ S (connector) video jacks

When used in conjunction with a VCR, Video disc player (LaserDisc player), or TV monitor equipped with S video jacks, connect to these jacks.

⑳ REAR SPEAKERS terminals

Connect the rear speakers to these terminals.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.

Use rear speakers with impedance of 8 Ω — 16 Ω.

㉑ MULTI-ROOM SPEAKERS terminals

Connect to the Multi-room speakers.

Speaker impedance

Connect speaker systems with a nominal impedance of between 8 Ω and 16 Ω.

㉒ FRONT SPEAKERS terminals

A: Connect to the first set of speakers.

B: Connect to the second set of speakers.

Speaker impedance:

Refer to ⑨ FRONT SPEAKERS IMPEDANCE SELECTOR switch.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.

㉓ AC OUTLETS

[U.S. and Canadian models]

[SWITCHED TOTAL 100 W (0.8 A) MAX]

Power supplied through these outlets 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).

[UNSWITCHED 100 W (0.8 A) MAX]

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W (0.8 A).

[Multi-voltage model]

SWITCHED TOTAL 100 W MAX

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W.

UNSWITCHED 100 W MAX

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W.

NOTE:

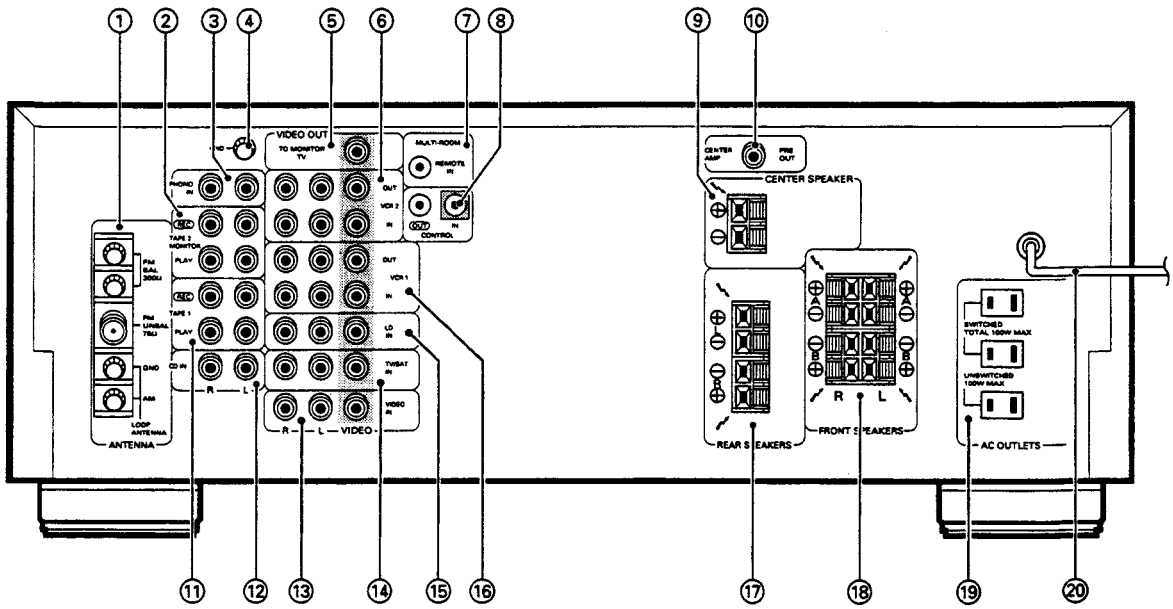
- *This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.*
- *Do not connect appliances with high power consumption such as heaters, irons, or television sets to these AC OUTLETS in order to avoid overheating and fire risk.*
 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

CAUTION:
DO NOT CONNECT MONITOR OR TV SET.

㉔ Power cord

■ FOR VSX-D703S AND VSX-D603S MODELS

•Illustration shows VSX-D603S U.S. model.



① FM/AM ANTENNA terminals

Use these antenna terminals for reception of normal FM and AM broadcasts.

② TAPE 2 MONITOR jacks

Connect the second cassette deck to these jacks.

Connecting for Recording

The tape recording jack (REC) on the cassette deck should be connected to the REC side of the TAPE 2 MONITOR jack on the receiver with a pin plug connecting cord.

Connecting for Playback

Connect the TAPE PLAY jack on the cassette deck to the PLAY side of the TAPE 2 MONITOR jack on the receiver with a pin plug connecting cord.

③ PHONO input jacks

Connect to the output cables from a turntable.

④ GND terminal

Connect the turntable ground lead to this terminal.

⑤ VIDEO OUT (TO MONITOR TV) jack

Connect to monitor TV or to TV sets with video input terminals for watching program materials from a VCR 1, 2 or LD player connected to this unit.

⑥ VCR 2 jacks

[VIDEO OUT]

When copying program material from the video component connected to the VCR 1 or LD jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.

[AUDIO OUT (L, R)]

When copying program materials from the video component connected to the VCR 1 or LD jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

[VIDEO IN]

When monitoring the video image from a VCR used for copying, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

When monitoring the audio channel from a VCR used for copying, connect its AUDIO OUTPUT jacks here.

⑦ MULTI-ROOM REMOTE IN jack

Connect to the separately sold MR-100 Multi-Room remote control unit.

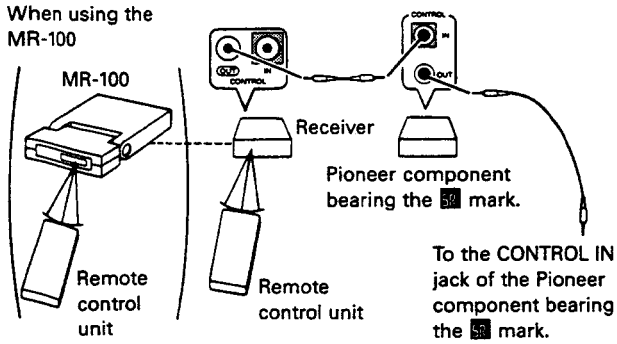
⑧ CONTROL IN/OUT jacks

IN : Connect this jack to other Pioneer components (main unit or remote control unit) when using those components to control this unit.

OUT : Connect this jack to other Pioneer components when using the remote control of this unit to control the other components.

NOTE:

The receiver's remote sensor does not function when a plug is inserted in the IN jack. To operate, point the remote control unit at the remote sensor on the component to which the receiver's IN jack is connected.



⑨ CENTER SPEAKER terminals

Connect the center speaker to these terminals.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other.

Use center speaker with impedance of 8 Ω to 16 Ω.

⑩ CENTER AMP PRE OUT jack

When a separate power amplifier is used to drive the surround center speaker, connect the power amplifier to this jack.

⑪ TAPE 1 jacks

Use these to connect the cassette deck.

Connecting for Recording

The tape recording jack (REC) on the cassette deck should be connected to the REC side of the TAPE 1 jack on the receiver with a pin plug connecting cord.

Connecting for Playback

Connect the PLAY jack on the cassette deck to the PLAY side of the TAPE 1 jack on the receiver with a pin plug connecting cord.

⑫ CD input jacks

Connect to the output jacks of a compact disc player.

⑬ VIDEO input jacks (VSX–D603S model only)

Connect to the output jacks of video components.

⑭ TV/SAT jacks (input)

Use these jacks if you wish to connect a TV tuner with both video and audio outputs.

[VIDEO IN]

Connect the TV tuner's VIDEO OUTPUT to this jack.

[AUDIO IN (L, R)]

Connect the TV tuner's AUDIO OUTPUT to these jacks.

⑮ LD jacks

[VIDEO IN]

When watching the video image from an LD player, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L,R)]

When playing back the audio channel from an LD player, connect its AUDIO OUTPUT jacks here.

⑯ VCR 1 jacks

[VIDEO OUT]

When copying program material from the video component connected to the VCR 2 or LD jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.

[AUDIO OUT (L, R)]

When copying program material from the video component connected to the VCR 2 or LD jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

[VIDEO IN]

When monitoring the video image from a VCR used for playing, connect its VIDEO OUTPUT jacks here.

[AUDIO IN (L, R)]

When monitoring the audio channel from a VCR used for playing, connect its AUDIO OUTPUT jacks here.

⑰ REAR SPEAKERS terminals

Connect the rear speakers to these terminals.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other.

Use rear speakers with impedance of 8 Ω to 16 Ω.

⑱ FRONT SPEAKERS terminals

A: Connect to the first set of speakers.

B: Connect to the second set of speakers.

NOTE:

Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other.

Use speakers with impedance of 8 Ω to 16 Ω.

⑲ AC OUTLETS

[SWITCHED TOTAL 100 W (0.8 A) MAX]

Power supplied through these outlets 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).

[UNSWITCHED 100 W (0.8 A) MAX]

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W (0.8 A).

The equipment should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.

NOTE:

- *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 these AC OUTLETS in order to avoid overheating and fire risk.*
  This can cause the receiver to malfunction.

CAUTION:
DO NOT CONNECT MONITOR OR TV SET.

⑳ Power cord

13. SPECIFICATIONS

Amplifier section

Continuous average power output of 130 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.05 % total harmonic distortion (front).**

Continuous Power Output (When using SURROUND MODE)
(Rear only driven) ..... 50 W (1 kHz, 0.8 %, 8 Ω)
(Front and Center driven)
Front ..... 100 W + 100 W (1 kHz, 0.8 %, 8 Ω)
Center ..... 100 W (1 kHz, 0.8 %, 8 Ω)
Dynamic Power (2 Ω/4 Ω) ..... 300 W/290 W
Input (Sensitivity/Impedance)
PHONO MM ..... 2.8 mV/47 kΩ
CD, TAPE 1, TAPE 2, LD,
VCR 1, VCR 2, VIDEO, TV/SAT ..... 200 mV/47 kΩ
Phono Overload Level (T.H.D. 0.1 %, 1 kHz)
PHONO MM ..... 100 mV
Frequency Response
PHONO MM ..... 20 Hz to 20,000 Hz ±0.3 dB
CD, TAPE 1, TAPE 2, LD,
VCR 1, VCR 2, VIDEO, TV/SAT ..... 5 Hz to 100,000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)
TAPE 1 REC, TAPE 2 REC ..... 200 mV/2.2 kΩ
VCR 1 OUT, VCR 2 OUT ..... 200 mV/2.2 kΩ
Tone Control
BASS ..... ±8 dB (150 Hz)
TREBLE ..... ±8 dB (10 kHz)
SUPER BASS ..... +8 dB (80 Hz)
Signal-to-Noise Ratio (IHF, short circuited, A network)
PHONO MM ..... 76 dB
CD, TAPE 1, TAPE 2, LD, VCR 1, VCR 2, TV/SAT, VIDEO ..... 97 dB
Signal-to-Noise Ratio (EIA, at 1 W 1kHz)
PHONO MM ..... 77 dB
CD, TAPE 1, TAPE 2, LD, VCR 1, VCR 2, TV/SAT, VIDEO ..... 80 dB

* ***Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier.***
** ***Measured by Audio Spectrum Analyzer.***

VIDEO Section

Input (Sensitivity/Impedance)
VCR 1, VCR 2, LD, VIDEO ..... 1 Vp-p/75 Ω
Output (Level/Impedance)
VCR 1, VCR 2, MONITOR ..... 1 Vp-p/75 Ω
Frequency Response
VCR 1, VCR 2, LD, VIDEO → MONITOR ..... 5 Hz to 7 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio ..... 55 dB
Cross Talk ..... 55 dB

FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz
Usable Sensitivity ..... Mono: 11.2 dBf, IHF (1.0 μV/75 Ω)
50 dB Quieting Sensitivity ..... Mono: 16.8 dBf (1.9 μV/75 Ω)
Stereo: 38.6 dBf (23.3 μV/75 Ω)
Signal-to-Noise Ratio ..... Mono: 80 dB (at 65 dBf)
Stereo: 76 dB (at 85 dBf)
Distortion ..... Mono: 0.2 % (1 kHz)
Stereo: 0.3 % (1 kHz)
Capture Ratio ..... 1 dB
Alternate Channel Selectivity ..... 65 dB (400 kHz)
Stereo Separation ..... 45 dB (1 kHz)
Frequency Response ..... 30 Hz to 15 kHz $^{+0.5}_{-2.0}$ dB
Image Interference Ratio ..... 50 dB
IF Interference Ratio ..... 80 dB
Antenna Input ..... 300 Ω balanced
75 Ω unbalanced

AM Tuner Section

Frequency Range
With 9 kHz step ..... 531 kHz to 1,602 kHz
With 10 kHz step ..... 530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna) ..... 300 μV/m
Selectivity ..... 25 dB
Signal-to-Noise Ratio ..... 50 dB
Antenna ..... Loop antenna

Miscellaneous

Power Requirements
U.S. Model ..... AC 120 V, 60 Hz
Multi-voltage Model ..... AC 110 V/120 — 127 V/220 V/240 V (Switchable), 50/60 Hz
Power Consumption
U.S. Model ..... 420 W
Multi-voltage Model ..... 950 W
In Standby Condition ..... 3 W
AC Outlets
U.S. Model
SWITCHED x 2 ..... TOTAL 100 W (0.8 A) MAX
UNSWITCHED x 1 ..... 100 W (0.8 A) MAX
Multi-voltage Model
SWITCHED x 2 ..... TOTAL 100 W MAX
UNSWITCHED x 1 ..... 100 W MAX

Dimensions
VSX–D903S Model ..... 420(W) × 162(H) × 425(D)mm
16-9/16(W) × 6-3/8(H) × 16-3/4(D)in
VSX–53 Model ..... 440(W) × 162(H) × 425(D)mm
17-5/16(W) × 6-3/8(H) × 16-3/4(D)in
VSX–D703S and
VSX–D603S Models ..... 420(W) × 162(H) × 414(D)mm
16-9/16(W) × 6-3/8(H) × 16-5/16(D)in

Weight (without package)
VSX–D903S Model ..... 13.0kg(28 lb 11oz)
VSX–53 Model ..... 12.7kg(28 lb)
VSX–D703S Model ..... 12.3kg(27 lb 2oz)
VSX–D603S Model ..... 12.2kg(26 lb 14oz)

Furnished Parts

FM T-type Antenna 1
AM Loop Antenna 1
Dry Cell Batteries 2
Remote Control Unit 1
Operating Instructions 1

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

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