

# Service Manual

ORDER NO.  
RRV1266

SEPARATE MINI COMPONENT SYSTEM

# XS-P650

● Refer to the service manual RRV1256 for XS-P550.

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

Type	Model	Power Requirement	Remarks
	XS-P650		
MEXK/EA	○	AC220-230V	
MEXK/EB	○	AC220-230V	
MEZIXK/DI	○	AC220-230V	
NBXX	○	AC230V	

● XS-P650 is a combination of the following components.

STEREO AMPLIFIER : A-P650  
 FM/AM DIGITAL SYNTHESIZER TUNER : F-P550RDS  
 COMPACT DISC PLAYER : PD-P550  
 STEREO DOUBLE CASSETTE DECK : CT-P550WR

● This product does not function properly when independent; to avoid malfunctions, be sure to connect it to the prescribed system component(s), otherwise damage may result.

● This product is a component of a system.

For the system composition FM/AM DIGITAL SYNTHESIZER TUNER: F-P550, COMPACT DISC PLAYER: PD-P550 and STEREO DOUBLE CASSETTE DECK: CT-P550WR etc., refer to the service manual RRV1256 for XS-P550.

● This manual is applicable to STEREO AMPLIFIER: A-P650.

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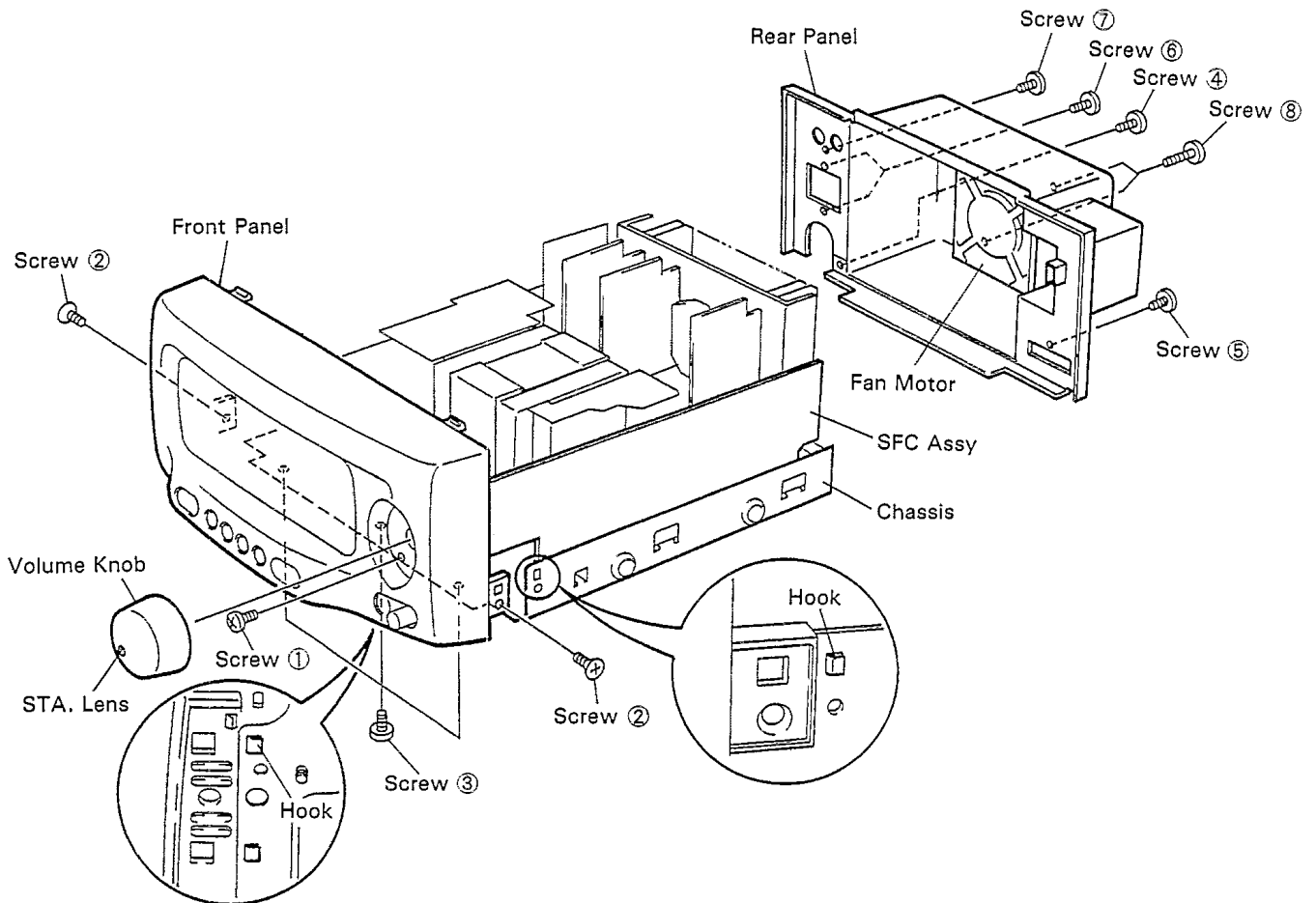
# 1. DISASSEMBLY (A – P650)

## ● Removal of the Front Panel

1. Remove the bonnet.
2. Remove the volume knob.  
(Please be careful, as the STA. LENS is in the volume knob.)
3. Remove the screw ① holding the SFC assy.
4. Remove the left and right screw ② (each one) fixing the front panel to chassis.
5. Remove the three screws ③ at the lower side of the front panel.
6. Disengage the left and the right hook of the front panel (refer to figure) and the hook at the lower part, and then remove the front panel from the chassis.

## ● Removal of the Fan Motor

1. Remove the bonnet.
2. Remove the screw ④ of the rear panel.
3. Remove the screw ⑤ of the connector.
4. Remove the screw ⑥ of the SP OUT terminal.
5. Remove the screw ⑦ of the pin jack.
6. Remove the rear panel from the chassis.
7. Remove the screw ⑧ of the fan motor.



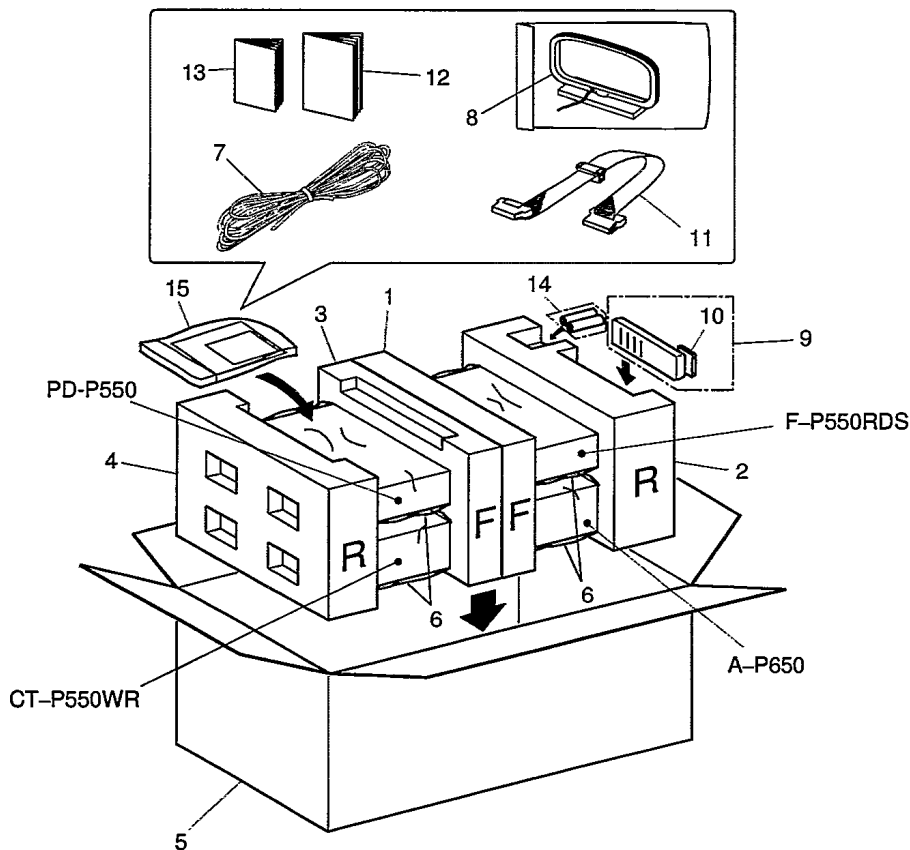
## 2. EXPLODED VIEWS, PACKING AND PARTS LIST

**NOTES :**

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "☉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

### 2.1 PACKING

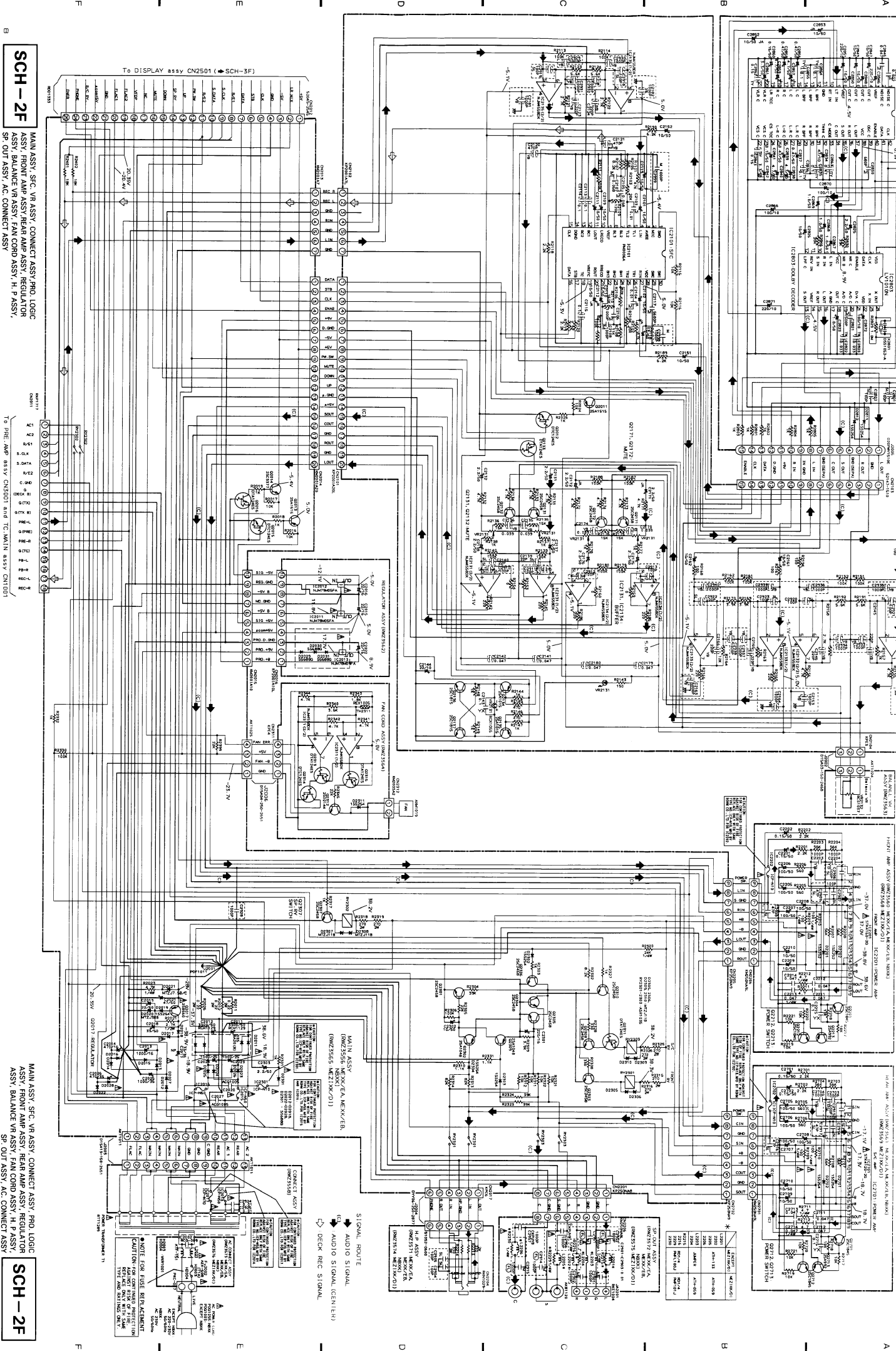
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	PROTECTOR F	RHA1162		12	OPERATING INSTRUCTIONS (German/Italian) (MEXK/EA and MEZIXK/DI types)	RRD1166
	2	PROTECTOR R	RHA1163		12	OPERATING INSTRUCTIONS (English) (MEXK/EB and NBXK types)	RRB1159
	3	PROTECTOR F	RHA1164		13	OPERATING INSTRUCTIONS (French/Dutch) (MEXK/EA type)	RRD1167
	4	PROTECTOR R	RHA1165		13	OPERATING INSTRUCTIONS (French/Swedish/Spanish/Portuguese) (MEXK/EB type)	RRD1168
	5	MASTER CARTON	RHG1667	NSP	14	BATTERY (R03, AAA)	VEM-022
	6	SHEET	VHL1006		15	POLY. BAG (0.03 × 230 × 340)	Z21-038
	7	FM ANTENNA ASSY	ADH1019				
	8	LOOP ANTENNA ASSY	ATB1012				
	9	REMOTE CONTROL UNIT	RPX1085				
	10	BATTERY COVER	AZA7050				
	11	CONTROL CORD ASSY	RDE1041				



**2.2 EXTERIOR (A – P650)**

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	DISPLAY ASSY	RWZ3570		36	SCREW	BBZ30P080FZK
	2	MAIN ASSY (MEXK/EA, MEXK/EB and NBXK types)	RWZ3556		37	SCREW	BBZ30P160FMC
	2	MAIN ASSY (MEZIXK/DI type)	RWZ3565		38	SCREW	CBZ30P080FZK
NSP	3	H.P ASSY (MEXK/EA, MEXK/EB and NBXK types)	RWZ3571		39	SCREW	PPZ30P080FMC
NSP	3	H.P ASSY (MEZIXK/DI type)	RWZ3574		40	SCREW	PPZ30P100FZK
	4	SFC.VR ASSY (MEXK/EA, MEXK/EB and NBXK types)	RWZ3557		41	BINDER (SKB-90BK)	Z09-056
	4	SFC.VR ASSY (MEZIXK/DI type)	RWZ3566		42	.....	
NSP	5	CONNECT ASSY	RWZ3558		43	SCREW	ABA1053
	6	AC. CONNECT ASSY (MEXK/EA, MEXK/EB and NBXK types)	RWZ3573		44	FUSE (T5A) (NBXK type)	PEK1003
	6	AC. CONNECT ASSY (MEZIXK/DI type)	RWZ3576	△	45	MIC VOLUME KNOB	AAB7045
NSP	7	SP. OUT ASSY (MEXK/EA, MEXK/EB and NBXK types)	RWZ3572		46	FAN MOTOR	AXM1019
NSP	7	SP. OUT ASSY (MEZIXK/DI type)	RWZ3575		47	PRO. LOGIC ASSY (MEXK/EA, MEXK/EB and NBXK types)	RWZ3559
	8	.....			47	PRO. LOGIC ASSY (MEZIXK/DI type)	RWZ3567
△	9	STRAIN RELEIF	CM-22B		48	FRONT AMP ASSY (MEXK/EA, MEXK/EB and NBXK types)	RWZ3560
△	10	POWER CORD WITH PLUG (MEXK/EA, MEXK/EB and MEZIXK/DI types)	PDG1003		48	FRONT AMP ASSY (MEZIXK/DI type)	RWZ3568
△	10	POWER CORD WITH PLUG (NBXK type)	PDG1055		49	REAR AMP ASSY (MEXK/EA, MEXK/EB and NBXK types)	RWZ3561
	11	25P F • F • C/30V	RDD1333		49	REAR AMP ASSY (MEZIXK/DI type)	RWZ3569
△	12	FUSE (T1A, FU2002)	AEK1054	NSP	50	REGULATOR ASSY	RWZ3562
△	13	POWER TRANSFORMER	RTT1289	NSP	51	BALANCE VR ASSY	RWZ3563
NSP	14	PCB SPACER (3×8)	AEC1371	NSP	52	FAN CORD ASSY	RWZ3564
	15	PCB SPACER (3×12)	AEC1372	NSP	53	PCB HOLDER	REC1258
	16	PCB MOULD	AMR2115		54	SCREW	PTZ45P100FZK
NSP	17	CORD HOLDER	DNF1128		55	SCREW	BBZ40P060FZK
NSP	18	CUSHION A	REB1283		56	.....	
NSP	19	UNDER BASE	RNB1107		57	.....	
NSP	20	HEAT SINK	RNE1840	NSP	58	SUB CHASSIS	RNE1845
NSP	21	JOINT L	RNE1826	NSP	59	HOLDER	RNE1856
NSP	22	JOINT R	RNE1827				
	23	INSULATOR ASSY	RXA1673				
	24	.....					
	25	STA. LENS	AAK7118				
	26	AM CONTROL BUTTON	RAC1990				
	27	AM BUTTON A	REA1166				
	28	AM BUTTON B	REA1167				
	29	VOLUME KNOB	AAB7046				
	30	AM FRONT PANEL	RAH2545				
	31	AM DISPLAY WINDOW	RAH2546				
	32	BONNET	REA1181				
	33	REAR PANEL	RNK2130				
	34	SCREW	ABA1005				
	35	SCREW	BBZ30P060FMC				





SCH-2F

SCH-2F

MAIN ASSY, SFC, VR ASSY, CONNECT ASSY, PRO LOGIC ASSY, FRONT AMP ASSY, REAR AMP ASSY, REGULATOR ASSY, BALANCE VR ASSY, FAN CORD ASSY, H. P. ASSY, SP. OUT ASSY, AC. CONNECT ASSY

MAIN ASSY, SFC, VR ASSY, CONNECT ASSY, PRO LOGIC ASSY, FRONT AMP ASSY, REAR AMP ASSY, REGULATOR ASSY, BALANCE VR ASSY, FAN CORD ASSY, H. P. ASSY, SP. OUT ASSY, AC. CONNECT ASSY

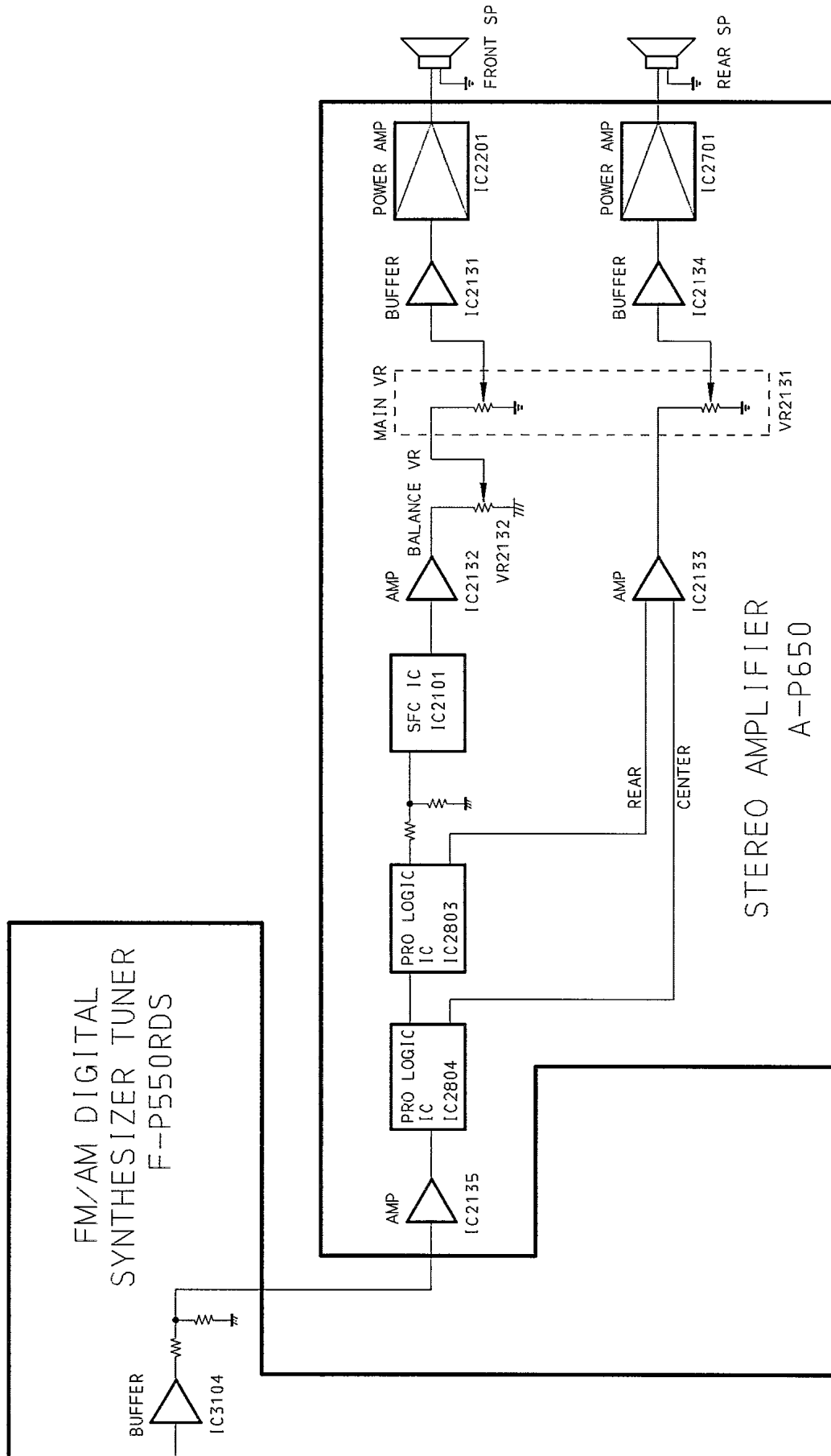
NOTE: FOR FUSE REPLACEMENT, DISCONNECT FUSE OF ALL POWER SUPPLY LINES FROM MAIN ASSY. THE FUSE MUST BE REPLACED WITH THE SAME RATED FUSE.







# 4. BLOCK DIAGRAM



FM/AM DIGITAL  
SYNTHESIZER TUNER  
F-P550RDS

STEREO AMPLIFIER  
A-P650

1

2

3

A

B

C

D

A

B

C

D

1

2

3

## 5. PCB PARTS LIST

**NOTES :**

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- 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 $\Omega$   $\rightarrow$  56  $\times$  10<sup>1</sup>  $\rightarrow$  561 ..... RD1/8PM  $\boxed{5}$   $\boxed{6}$   $\boxed{1}$  J  
 47k $\Omega$   $\rightarrow$  47  $\times$  10<sup>3</sup>  $\rightarrow$  473 ..... RD1/4PS  $\boxed{4}$   $\boxed{7}$   $\boxed{3}$  J  
 0.5 $\Omega$   $\rightarrow$  0R5 ..... RN2H  $\boxed{0}$   $\boxed{R}$   $\boxed{5}$  K  
 1 $\Omega$   $\rightarrow$  010 ..... RS1P  $\boxed{0}$   $\boxed{1}$   $\boxed{0}$  K

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

5.62k $\Omega$   $\rightarrow$  562  $\times$  10<sup>1</sup>  $\rightarrow$  5621 ..... RM1/4PC  $\boxed{5}$   $\boxed{6}$   $\boxed{2}$   $\boxed{1}$  F

### LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol & Description	Part No.				Remarks
		MEXK/EA	MEXK/EB	MEZIXK/DI	NBXK	
NSP	STEREO AMPLIFIER (A-P650)	RXF1036	RXF1039	RXF1037	RXF1035	
NSP	— SFC. AMP assy	RWM1821	RWM1821	RWM1822	RWM1821	
	— MAIN assy	RWZ3556	RWZ3556	RWZ3565	RWZ3556	
	— SFC. VR assy	RWZ3557	RWZ3557	RWZ3566	RWZ3557	
NSP	— CONNECT assy	RWZ3558	RWZ3558	RWZ3558	RWZ3558	
	— PRO. LOGIC assy	RWZ3559	RWZ3559	RWZ3567	RWZ3559	*1
	— FRONT AMP assy	RWZ3560	RWZ3560	RWZ3568	RWZ3560	
	— REAR AMP assy	RWZ3561	RWZ3561	RWZ3569	RWZ3561	
	— REGULATOR assy	RWZ3562	RWZ3562	RWZ3562	RWZ3562	
NSP	— BALANCE VR assy	RWZ3563	RWZ3563	RWZ3563	RWZ3563	
NSP	— FAN CORD assy	RWZ3564	RWZ3564	RWZ3564	RWZ3564	
NSP	— DISPLAY assy	RWM1823	RWM1823	RWM1824	RWM1823	
	— DISPLAY assy	RWZ3570	RWZ3570	RWZ3570	RWZ3570	
NSP	— H. P assy	RWZ3571	RWZ3571	RWZ3574	RWZ3571	
NSP	— SP. OUT assy	RWZ3572	RWZ3572	RWZ3575	RWZ3572	
	— AC. CONNECT assy	RWZ3573	RWZ3573	RWZ3576	RWZ3573	*2

**Notes)**

\*1: Although RWZ3567 and RWZ3559 are different in part number, they consist of the same component.

\*2: Although RWZ3576 and RWZ3573 are different in part number, they consist of the same component.

### CONTRAST OF PCB ASSEMBLIES

#### SFC. VR Assy

RWZ3566 and RWZ3557 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3557	RWZ3566	
	C2153, C2154, C2163, C2164, C2181, C2182, C2929-C2940	Not used	CKSQYB102K50	*
	C2910-C2913, C2918-C2923	Not used	CCSQSL101J50	*
	C2998, C2999	Not used	CQMA102K50	*

Note \*: Refer to "SCH-2F".

**MAIN Assy**

RWZ3565 and RWZ3556 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3556	RWZ3565	
	C2928	Not used	CKCYB102K50	*

Note \*: Refer to "SCH-2F".

**FRONT AMP Assy**

RWZ3568 and RWZ3560 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3560	RWZ3568	
	C2906, C2907	Not used	CCCSL101J50	*
	C2908, C2909	Not used	CCCSL470J50	*

Note \*: Refer to "SCH-2F".

**REAR AMP Assy**

RWZ3569 and RWZ3561 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3561	RWZ3569	
	C2914, C2915	Not used	CCCSL101J50	*
	C2916, C2917	Not used	CCCSL470J50	*

Note \*: Refer to "SCH-2F".

**H. P Assy**

RWZ3574 and RWZ3571 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3571	RWZ3574	
	C2904, C2905	Not used	CCCSL101J50	*

Note \*: Refer to "SCH-2F".

**SP. OUT Assy**

RWZ3575 and RWZ3572 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		RWZ3572	RWZ3575	
	L2201, L2202	ATH-133	ATH-059	*
	L2203, L2204	Not used	ATH-059	
	L2205, L2206	ATH-133	ATH-059	
	C2901, C2902, C2951, C2952	Not used	CQMA102J50	*
	C2914, C2915	Not used	CQMA102K50	*
	C2956, C2957	Not used	CKPUYB102K50	*
	R2215, R2216, R2229, R2230	RD1/4PMFL100J	RD1/4PMFL101J	

Note \*: Refer to "SCH-2F".

**PARTS LIST FOR MEXK/EA TYPE**

Mark	No.	Description	Parts No.
<b>MAIN ASSY</b>			
<b>SEMICONDUCTORS</b>			
△	IC2301		ICP--N10
△	IC2015, IC2016		ICP--N50
	Q2302, Q2309		2SA1048
	Q2013		2SA1515
△	Q2017		2SB560
	Q2301, Q2303-Q2308, Q2310		2SC2458
	Q2014		2SC3377
	Q2016, Q2311		DTA124ES
	Q2015		DTC124ES
	D2019, D2302-D2304		1SS254
△	D2011		D3SBA20 (B)
	D2305-D2310		MTZJ11B
	D2020		MTZJ30B
	D2021		MTZJ7.5B
△	D2012-D2018, D2022-D2028, D2301		S5688G
<b>SWITCHES AND RELAYS</b>			
	RY2301-RY2303		ASR1035
<b>CAPACITORS</b>			
△	C2020, C2027 (0.01μF/150V)		ACG1005
	C2017		CEANP330M35
	C2302		CEAS100M50
	C2013		CEAS102M16
	C2023, C2024		CEAS102M25
	C2025		CEAS102M35
	C2019		CEAS220M50
	C2301		CEAS221M16
	C2303		CEAS2R2M50
	C2018		CEAS330M50
	C2021		CEAS470M50
	C2014		CEAS471M16
	C2026		CEAS471M35
	C2011, C2012 (3300μF/50V)		RCH1129
<b>RESISTORS</b>			
	R2021		RD1/2PM272J
	R2320		RD1/4PM243J
	R2023		RD1/4PM472J
	R2315, R2316, R2318, R2319		RS2LMF271J
	R2325, R2326		RS2LMF271J
	R2011, R2012, R2026		RS2LMFR22J
	Other Resistors		RD1/6PM□□□□
<b>OTHERS</b>			
	CN2012 25P FFC CONNECTOR		52045-2545
	CABLE HOLDER		AKT1011
	CN2015 10P PLUG		KM200IA10
	CN2014 20P PLUG		KM200IA20
	CN2013 7P PLUG		KM200IA7
	CN2201 8P SOCKET		KP250NA8
	CN2205, CN2702		KP250NA9
	9P SOCKET		
	CN2017 6P JUMPER CONNECTOR		KPC6
	CN2011 18P SOCKET		RKP1717

Mark	No.	Description	Parts No.
<b>SFC, VR ASSY</b>			
<b>SEMICONDUCTORS</b>			
	IC2131-IC2135		NJM4558D-D
	IC2101		PM0006A
	Q2134, Q2135		2SA1015
	Q2011		2SA1515
	Q2136, Q2137		2SC1815
	Q2131, Q2132, Q2171, Q2172		2SC2458
	Q2133		DTA124ES
	Q2012		DTC124ES
<b>CAPACITORS</b>			
	C2139, C2140		CCSQL220J50
	C2101, C2109, C2111, C2119		CEAS100M50
	C2151, C2152, C2161, C2162		CEAS100M50
	C2144		CEAS220M10
	C2131, C2132, C2137, C2138		CEAS2R2M50
	C2175, C2176		CEAS2R2M50
	C2102, C2110, C2112, C2118		CEJA100M50
	C2171, C2172		CEJA2R2M50
	C2143		CGCYX104M16
	C2123, C2124, C2145, C2146		CKSQYB221K50
	C2165, C2166		CKSQYB221K50
	C2135, C2136, C2173, C2174		CKSQYB393K50
	C2120, C2121		CKSQYB471K50
	C2113-C2115		CKSQYF104Z25
	C2141, C2142, C2179, C2180		CKSQYF473Z25
	C2106, C2108		CQMA102J50
	C2103, C2104		CQMA103J50
	C2117		CQMA562J50
	C2105, C2107		CQMA683J50
<b>RESISTORS</b>			
	VR2131 (100kΩ-B×4)		RCX1055
	R2143		RD1/4PM151J
	R2025		RD1/6PM102J
	R2024		RD1/6PM103J
	Other Resistors		RS1/10S□□□□
<b>OTHERS</b>			
	CN2103 15P JUMPER CONNECTOR		52147-1510
	CN2101 20P SOCKET		KP200IA20L
	CN2102 7P SOCKET		KP200IA7L
	CN2104 3P JUMPER CONNECTOR		KPE3
	PCB BINDER		VEF1008
<b>CONNECT ASSY</b>			
<b>SEMICONDUCTORS</b>			
△	IC2014		ICP-N50
△	IC2017		ICP-N70
<b>CAPACITORS</b>			
	C2924, C2925		CKCYF103Z50
<b>OTHERS</b>			
	CABLE HOLDER		AKT1011
<b>PRO. LOGIC ASSY</b>			
<b>SEMICONDUCTORS</b>			
	IC2804		LA2785
	IC2803		LV1010N
	D2811, D2812		1SS254
	D2810		MTZJ5.6B

Mark	No.	Description	Parts No.
<b>CAPACITORS</b>			
	C2801 – C2803		CCSQSL101J50
	C2842, C2861		CEANL3R3M50
	C2838, C2840, C2857, C2859		CEANL4R7M50
	C2823, C2867 – C2869		CEAS010M50
	C2826, C2847 – C2850		CEAS100M50
	C2866, C2870, C2872		CEAS101M10
	C2846, C2851, C2871		CEAS221M10
	C2825		CEAS2R2M50
	C2834		CEAS470M10
	C2841, C2860		CEASR15M50
	C2837, C2839, C2856, C2858		CEASR47M50
	C2852, C2853		CEJA100M50
	C2835, C2836, C2854, C2855		CFTYA104J50
	C2843, C2862		CFTYA154J50
	C2820, C2822		CFTYA333J50
	C2863		CFTYA474J50
	C2821		CQMA152J50
	C2844		CQMA223J50
	C2845		CQMA473J50
	C2830		CQMA681J50
<b>RESISTORS</b>			
	All Resistors		RS1/10S□□□J
<b>OTHERS</b>			
	X2801 (8.00MHz)		DSS1053
<b>FRONT AMP ASSY</b>			
<b>SEMICONDUCTORS</b>			
△	IC2202		ICP – N10
△	IC2201		STK4160 – 2G
	Q2213		2SA992
	Q2201, Q2212		2SC1845
	D2201, D2202		1SS252
<b>CAPACITORS</b>			
	C2209, C2210		CEAS100M50
	C2205 – C2208		CEAS101M50
	C2201, C2202		CEASR15M50
	C2215		CGCYX104M16
	C2203, C2204		CKCYB102K50
	C2211 – C2214		CKCYF473Z50
<b>RESISTORS</b>			
	R2211, R2212		RD1/4PM4R7J
△	R2209, R2210		RD1/4PMFL101J
	Other Resistors		RD1/6PM□□□J
<b>OTHERS</b>			
	CN2206 9P PLUG		KM250NA9L
<b>REAR AMP ASSY</b>			
<b>SEMICONDUCTORS</b>			
△	IC2702		ICP – N10
△	IC2701		STK4120 – 2G
	Q2713		2SA992
	Q2701, Q2712		2SC1845
	D2701, D2702		1SS254

Mark	No.	Description	Parts No.
<b>CAPACITORS</b>			
	C2709, C2710		CEAS100M50
	C2705 – C2708		CEAS101M50
	C2701, C2702		CEASR15M50
	C2715		CGCYX104M16
	C2703, C2704		CKCYB102K50
	C2711 – C2714		CKCYF473Z50
<b>RESISTORS</b>			
	R2711, R2712		RD1/4PM4R7J
△	R2709, R2710		RD1/4PMFL101J
	Other Resistors		RD1/6PM□□□J
<b>OTHERS</b>			
	CN2701 9P PLUG		KM250NA9L
<b>REGULATOR ASSY</b>			
<b>SEMICONDUCTORS</b>			
△	IC2011		NJM78M05FA
△	IC2013		NJM78M09FA
△	IC2012		NJM79M05FA
△	D2029 – D2031		S5688G
<b>CAPACITORS</b>			
	C2015, C2016, C2022		CEAS220M16
<b>OTHERS</b>			
	CN2016 10P SOCKET		KP200IA10L
<b>BALANCE VR ASSY</b>			
<b>RESISTORS</b>			
	VR2132 (250kΩ)		RCS1037
<b>FAN CORD ASSY</b>			
<b>SEMICONDUCTORS</b>			
	IC2311		NJM4558D – D
	Q2312		2SD2144S
	Q2313, Q2315		DTA124ES
	Q2314		DTC124ES
	D2311		1SS254
<b>RESISTORS</b>			
	All Resistors		RD1/6PM□□□J
<b>OTHERS</b>			
	CN2311 4P JUMPER CONNECTOR		KPE4
	CN2312 PLUG (2P)		KM200SA2
	TH2311 THERMISTOR		REX1005
	PCB BINDER		VEF1008
<b>DISPLAY ASSY</b>			
<b>SEMICONDUCTORS</b>			
	IC2502 – IC2504		NJM4558M
	IC2501		PDC024A
	Q2502		2SC2458
	Q2501		DTC124ES
	D2501, D2503, D2505 – D2507		1SS254
	D2601 – D2605		1SS254
	D2502		BR3371XJ30A
	D2508, D2509		MTZJ6.2B

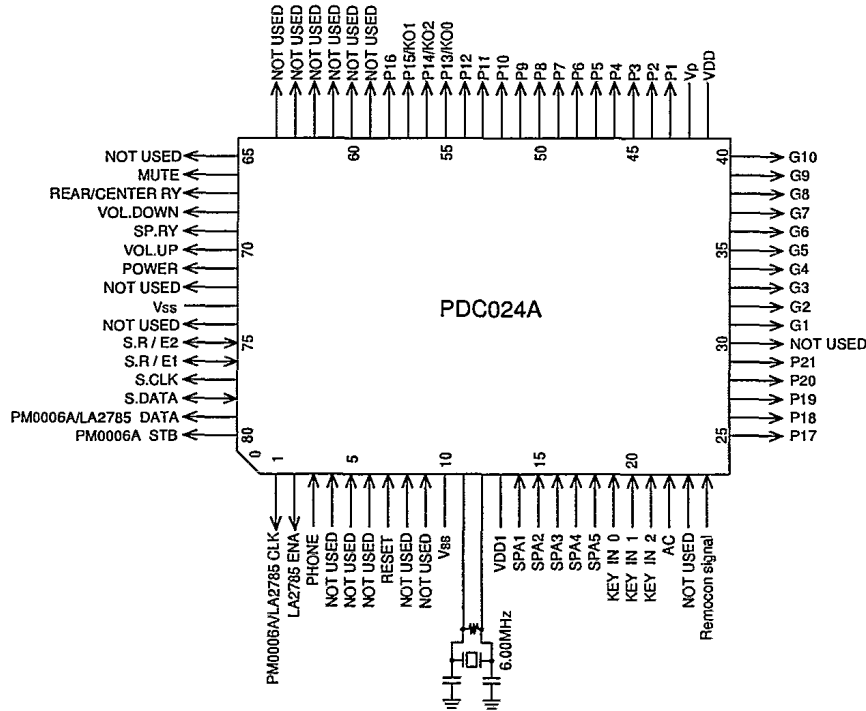
Mark	No.	Description	Parts No.
<b>COILS AND FILTERS</b>			
	L2501		LAU101J
<b>SWITCHES AND RELAYS</b>			
	S2501-S2509		RSG1033
<b>CAPACITORS</b>			
	C2503, C2504		CEAS010M50
	C2507		CEAS470M10
	C2505		CFTXA224J50
	C2509		CKPUYB101K50
	C2506		CKPUYB102K50
	C2613, C2614		CKPUYB471K50
	C2603, C2606		CKPUYF103Z25
	C2953, C2954		CKPUYF103Z50
	C2604, C2605		CKPUYF223Z25
	C2501, C2508, C2601, C2602, C2609		CKPUYF473Z50
	C2612, C2615		CKPUYF473Z50
	C2610, C2611		CKPUYX152M16
	C2607, C2608		CKPUYX472M16
<b>RESISTORS</b>			
	All Resistors		RD1/6PM□□□J
<b>OTHERS</b>			
	CN2501	25P FFC CONNECTOR	52044-2545
	V2501	REMOTE RECEIVER UNIT	GP1U27X
	V2501	FL INDICATOR TUBE	RAW1143
	X2501	(6.00MHz)	VSS1045
<b>H.P ASSY</b>			
<b>RESISTORS</b>			
	R2213, R2214		RS2LMF331J
<b>OTHERS</b>			
	CN2204	6P CABLE HOLDER MINI JACK	51052-0600 RKN1029
<b>SP. OUT ASSY</b>			
<b>COILS AND FILTERS</b>			
	L2201, L2202, L2205, L2206	(1μH)	ATH-133
<b>RESISTORS</b>			
△	All Resistors		RD1/4PM□□□J
<b>OTHERS</b>			
	CN2206	PIN JACK (3P)	AKB1120
	JA2201	8P PLUG	KM250NA8L
	JA2201	4P SPEAKER TERMINAL	RKE1004
<b>AC. CONNECT ASSY</b>			
<b>COILS AND FILTERS</b>			
△	L2002		ATF-151
<b>CAPACITORS</b>			
△	C2002	(10000pF)	RCG-009
<b>OTHERS</b>			
	H2003, H2004	FUSE HOLDER	VKR1001

## 6. IC INFORMATION

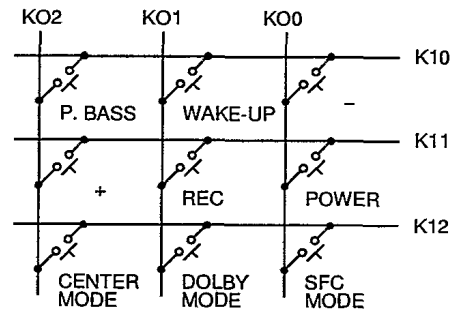
- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

### ■ PDC024A (IC2501 : DISPLAY ASSY)

- System Control Micro-computer
- Pin Assignment (Top view)



- Key Matrix



- Pin Function

No.	Pin Name	Pin Function	I/O	Description	Act.
1	P17/PWM0	PM0006A CLK	O	PM0006A/LA2785/LV1010N clock output	
2	P30	LA2785 ENA	O	LA2785/LV1010N enable output	H
3	P31	PHONE	I	Headphone IN input	L
4	P32	NOT USED	I	Connected to GND.	
5	P33				
6	P70/INT0	NOT USED	I	Not connect (internal pull-up)	
7	RES	RESET	I	Reset input	L
8	XT1/P74	NOT USED	I	Connected to VDD.	
9	XT2/P75	NOT USED	I	Connected to GND.	
10	Vss1	Vss	-		
11	CF1	-	O	Main system clock (6MHz) Connected to ceramic resonator.	
12	CF2				
13	VDD1	-	-	Connected to +5V.	

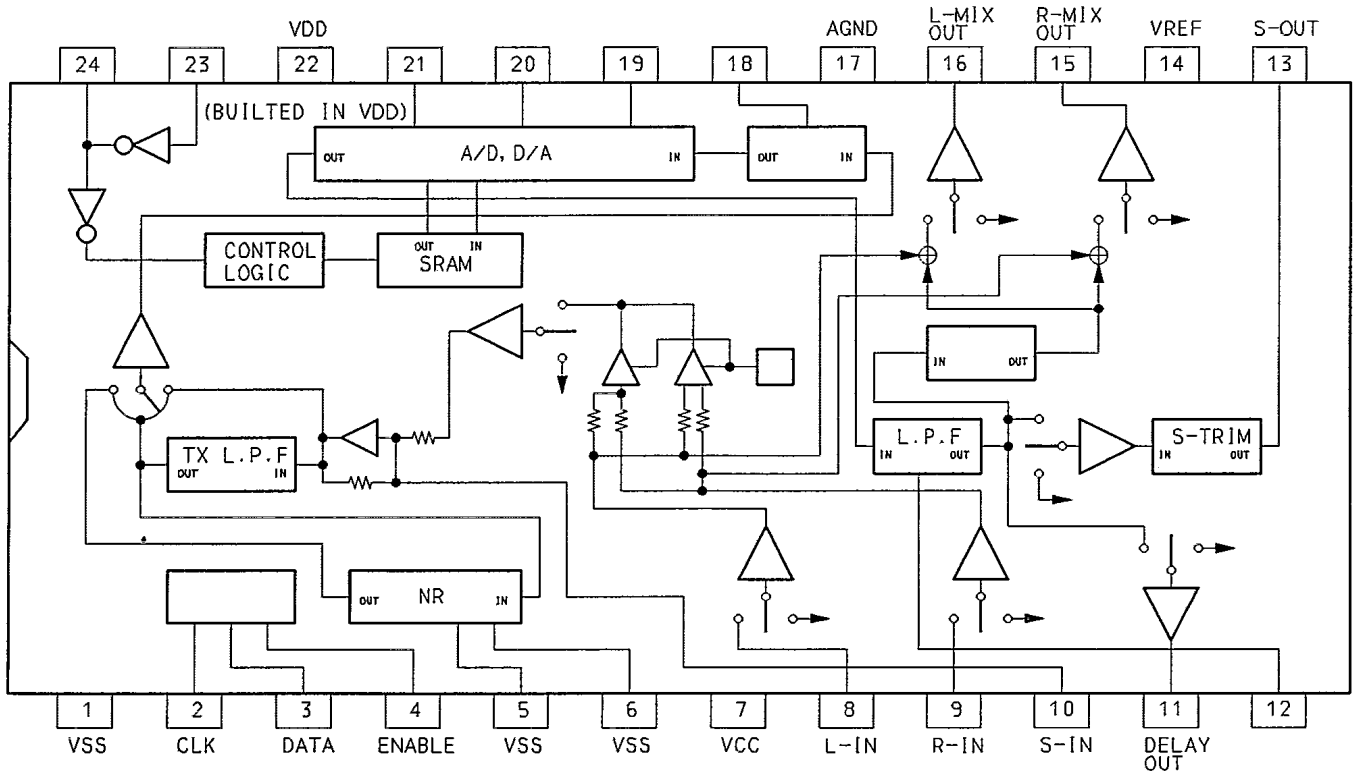
No.	Pin Name	Pin Function	I/O	Description	Act.
14	P80/AN0	SPA1	I	Spectrum analyzer input (analog) 10kHz	
15	P81/AN1	SPA2	I	Spectrum analyzer input (analog) 3.3kHz	
16	P82/AN2	SPA3	I	Spectrum analyzer input (analog) 1kHz	
17	P83/AN3	SPA4	I	Spectrum analyzer input (analog) 330Hz	
18	P84/AN4	SPA5	I	Spectrum analyzer input (analog) 100Hz	
19   21	P85/AN5   P87/AN7	KI0   KI2	I	Key scan • Key return signal input	
22	P71/INT1	AC	I	AC input	
23	P72/INT2/T0IN	NOT USED	I	Not connect (Pull-up at inside)	
24	P73/INT3/T0IN	Remocon signal	I	Remote control signal input	L
25   29	S0/T0   S4/T4	P17   P21	O	FL control segment output	
30	S5/T5	NOT USED	O	Not connect	
31   40	S6/T6   S15/T15	G1   G10	O	FL control digit output	
41	VDD2	VDD	—	Connected to +5V.	
42	VP	—	—	Connected to power supply (−30V) for FDP.	
43   50	S16/PC0   S23/PC7	P1   P8	O	FL control segment output	
51   54	S24/PD0   S27/PD3	P9   P12	O	FL control segment output	
55	S28/PD4	P13/KO0	O	FL control segment output/Key scan strobe output	
56	S29/PD5	P14/KO2			
57	S30/PD6	P15/KO1			
58	S31/PD7	P16	O	FL control segment output	
59   63	S32/PE0   S36/PE4	NOT USED	O	Not connect	
64	S37/PE5	NOT USED	O	Not connect	
65	PO0	NOT USED	O	Not connect	



No.	Pin Name	Pin Function	I/O	Description	Act.
66	PO1	MUTE	O	Line Mute output	H
67	PO2	REAR/CENTER	O	Rear/Center relay control output	H
68	PO3	VOL. DOWN	O	Motor volume control output (VOL DOWN)	L
69	PO4	SP. RY	O	Speaker relay control output	H
70	PO5	VOL. UP	O	Motor volume control output (VOL UP)	L
71	PO6	POWER	O	Power control output	H
72	PO7	NOT USED	O	Not connect	
73	Vss2	Vss	—	Connected to GND.	
74	P10/SO0	NOT USED	O	Not connect	
75	P11/SI0/SB0	S.R/E2	I/O	Communication request/enable input and output 2 for system bus communication	
76	P12/SCK0	S.R/E1	I/O	Communication request/enable input and output 1 for system bus communication	
77	P13/SO1	S. CLK	O	Clock input and output for system bus communication	
78	P14/SI1/SB1	S. DATA	I/O	Data input and output for system bus communication	
79	P15/SCK1	PM0006A DATA	O	PM0006A/LA2785/LV1010N data output	
80	P16/BUZ	PM0006A STB	O	PM0006A strobe output	H

**■ LV1010N (IC2803: PRO. LOGIC ASSY)**

- Dolby Surround Passive Decoder
- Block Diagram



**■ LA2785 (IC2804: PRO. LOGIC ASSY)**

- Dolby Pro-logic Surround Matrix Decoder
- Block Diagram

