PORTATONE

PSR-8000

SERVICE MANUAL



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YAMAHA CORP.

HAMAMATSU, JAPAN

PK 001598

1.98K-4421 Ⓘ Printed in Japan '97.11

IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification, recognition of any applicable technical capabilities, or establish a principal-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and changes in specification are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHAT SO EVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

■ WARNING

Components having special characteristics are marked ⚠ and must be replaced with parts having specification equal to those originally installed.

SPECIFICATIONS

KEYBOARD:
61 Keys (C1~C6)
with Touch Response (Initial/After)

POLYPHONY:
64 Notes max.

VOICES:
261 Original voices
480 XG voices
13 Drum/SFX kits
Organ Flute
Custom voice area:
32 (User Programmable)

ACCOMPANIMENT:
Accompaniment styles:
Preset 214 + Disk 25 styles

Auto Accompaniment:
Single Finger/Multi Finger/
Fingered 1/Fingered 2/Full Keyboard/
Manual Bass

Virtual Arranger

Groove Style area:
20 (User Programmable)
Custom Style area:
16 (User Programmable)

ONE TOUCH SETTING:
4 settings are available
for each preset style
Custom OTS area:
4 setups x 8 styles
(User Programmable)

EFFECT & CONTROLLER:
EFFECT:
Reverb (24 types + 3 User types)
Chorus (20 types + 3 User types)
DSP for Style (98 types)
DSP for Lead
(78 types + 10 User types)
DSP for Right 1
(78 types + 10 User types)
DSP for Right 2
(78 types + 10 User types)
DSP for Mic
(78 types + 10 User types)
Vocal Harmony
(50 types + 3 User types)
5-band Master Equalizer
(2 types + 2 User types)

Harmony/Echo 14 types

Mixing Console
Left Hold
Pitch Bend Wheel
Modulation Wheel

SAMPLING:
1MB wave RAM memory
44.1 kHz sampling
File Import

WAVE EDIT:
Resampling, Loop Point, Normalize, Volume/Tune, Wave Name, Clear, Export as WAV, Delete

WAVEFORM EDIT:
Add Wave, Move Start Note/Volume/ Delete Wave, Waveform Name, Clear, Save, Delete, Store as Custom Voice

MULTI PAD:
Preset: 50 banks x 4 setups
User Programmable area:
10 banks x 4 setups

SONG RECORD:
Quick Record:
Manual/Accompaniment Tracks
Chord Step Record,
Edit (Rename, Delete)

Multi Track Record:
1~16 Tracks
Replace, Punch In, Edit (Rename, Quantize, Track Mix, Note Shift,
Song Delete), Setup

SONG PLAY:
Single, All, Random, Next Song, Song Order, Repeat, Lyric Display, REW, FF, PAUSE

REGISTRATION MEMORY:
16 banks x 8 setups, Freeze

HELP FUNCTION:
Five languages
(English, German, French, Spanish and Italian)

DISPLAY:
LCD (240 x 320 dots)

DISK:
Load from Disk, Save to Disk, Copy File/ FD, Change Song Order, Rename File/ Song, Delete File/Song, Format Floppy Disk, Edit Directory, Format Hard Disk, Check Hard Disk

* 3.5" FDD (2DD/2HD), Compatible with General MIDI (SMF format 0 and 1), XG, XF, DOC and SFF (Yamaha Style File Format) software.

FUNCTIONS:
F1: Master Tune/Scale
F2: Split Point/Fingering
F3: Controller
F4: Registration/One Touch Setting/ Voice Set
F5: Harmony/Echo
F6: Customize List
F7: Talk Setting
F8: Utility
F9: MIDI

DEMONSTRATIONS:
21 Songs

CONNECTORS:
MIDI (IN/OUT/THRU), AUX IN/LOOP RETURN (R, L/L+R, TRIM), LOOP SEND (R, L/L+R), AUX OUT (R, L/L+R), TO HOST, FOOT PEDAL (SWITCH 1/2, VOLUME), AC INLET, PHONES, MIC/ LINE IN

AMPLIFIER:
20W x 2

SPEAKERS:
16cm x 2, 5cm x 2

DIMENSIONS (W x H x D):
1058 mm x 178 mm x 446 mm
(41-2/3" x 7" x 17-1/2")

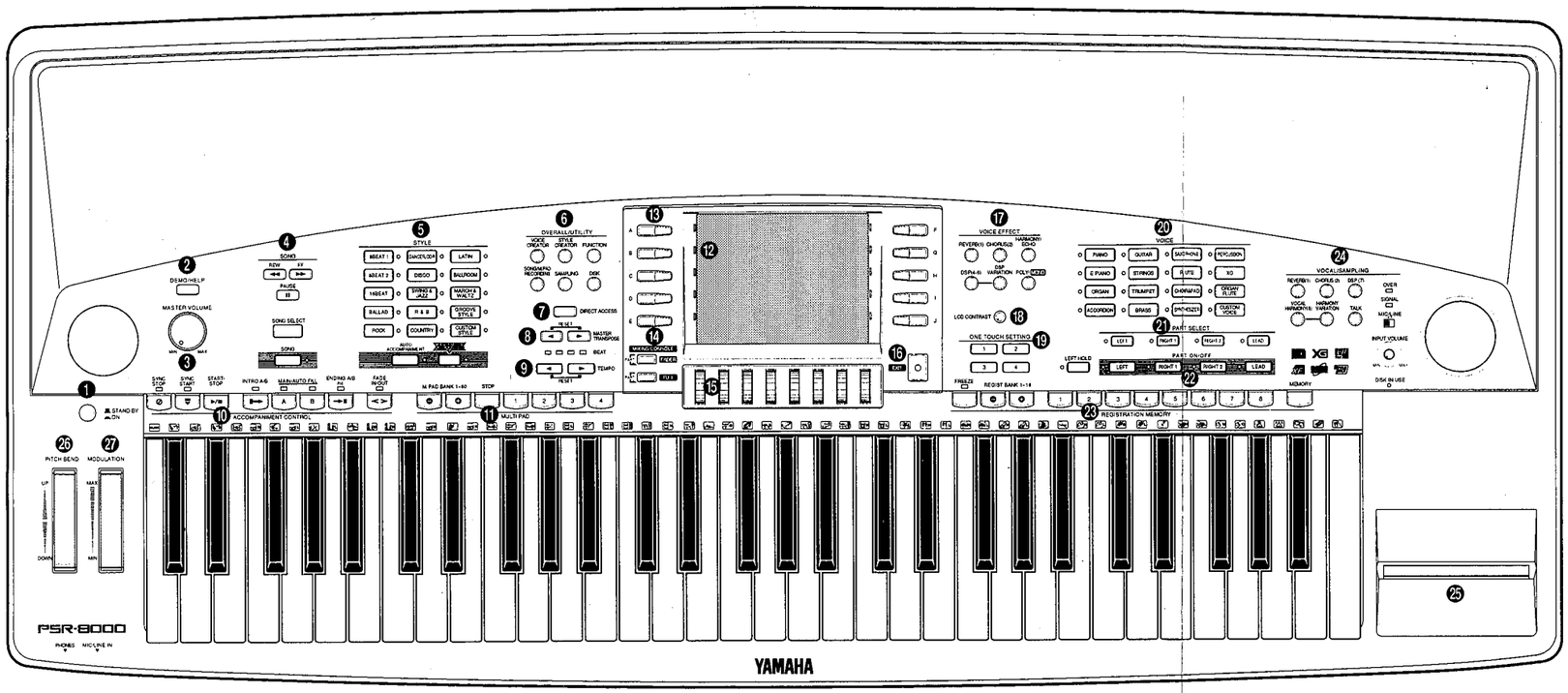
WEIGHT:
16.0 kg (35 lbs. 4 oz)

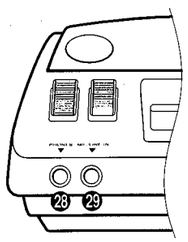
SUPPLIED ACCESSORIES:
- AC Power Cord
- AC Plug Adaptor
(in applicable areas only)
- Music Stand
- Audio CD
(includes sound sources for sampling)
- Floppy Disk
(includes accompaniment style files)
- Owner's Manual

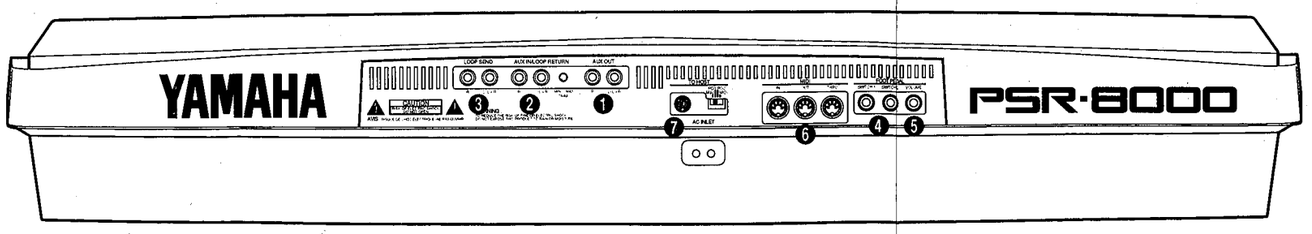
OPTIONAL ACCESSORIES:
- Foot Switch FC5
- Foot Volume FC7
- Headphones HPE-150
- Keyboard Stand L-7
- Hard Disk
- SIMM (4, 8, or 16MB x 2)

- *Specifications and descriptions in this owner's manual are for information purposes only. Yamaha Corp. reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your Yamaha dealer.*

■ PANEL LAYOUT







● **Control Panel**

1. STAND BY/ON Button
2. DEMO/HELP Button
3. MASTER VOLUME Control
4. SONG Buttons
   REW, FF, PAUSE, SONG SELECT, SONG
5. STYLE Buttons
   8BEAT1, 8BEAT2, 16BEAT, BALLAD, ROCK, DANCEFLOOR, DISCO, SWING & JAZZ, R & B, COUNTRY, LATIN, BALLROOM, MARCH & WALTZ, GROOVE STYLE, CUSTOM STYLE, AUTO ACCOMPANIMENT, VIRTUAL ARRANGER
6. OVERALL/UTILITY Buttons
   VOICE CREATOR, STYLE CREATOR, FUNCTION, SONG/M.PAD RECORDING, SAMPLING, DISK
7. DIRECT ACCESS Button
8. MASTER TRANSPOSE◀, ▶ Buttons
9. TEMPO◀, ▶Buttons
10. ACCOMPANIMENT CONTROL Buttons
    SYNCHRO STOP, SYNCHRO START, START/STOP, INTRO A/B, MAIN/AUTO FILL A/B, ENDING A/B/rit., FADE IN/OUT
11. MULTI PAD Buttons
    M.PAD BANK 1~60, STOP, 1—4
12. Liquid Crystal Display (LCD)
13. LCD (A—J) Buttons
14. MIXING CONSOLE Buttons
    FADER, FULL
15. LCD dials
16. EXIT Button
17. VOICE EFFECT Buttons
    REVERB (1), CHORUS (2), HARMONY/ECHO, DSP (4—5), DSP VARIATION, POLY/MONO
18. LCD CONTRAST Control
19. ONE TOUCH SETTING (1—4) Buttons
20. VOICE Buttons
    PIANO, E.PIANO, ORGAN, ACCORDION, GUITAR, STRINGS, TRUMPET, BRASS, SAXOPHONE, FLUTE, CHOIR&PAD, SYNTHESIZER, PERCUSSION, XG, ORGAN FLUTE, CUSTOM VOICE
21. PART SELECT Buttons
    LEFT, RIGHT 1, RIGHT 2, LEAD
22. PART ON/OFF Buttons
    LEFT HOLD, LEFT, RIGHT 1, RIGHT 2, LEAD
23. REGISTRATION MEMORY Buttons
    FREEZE, REGIST BANK 1~16, 1—8, MEMORY
24. VOCAL/SAMPLING Buttons & Controls
    REVERB(1), CHORUS(2), DSP(7), VOCAL HARMONY(8), HARMONY VARIATION, TALK OVER Indicator, SIGNAL Indicator, MIC/LINE Switch, INPUT VOLUME Control
25. Disk Drive
26. PITCH BEND Wheel
27. MODULATION Wheel

● **Front Panel**

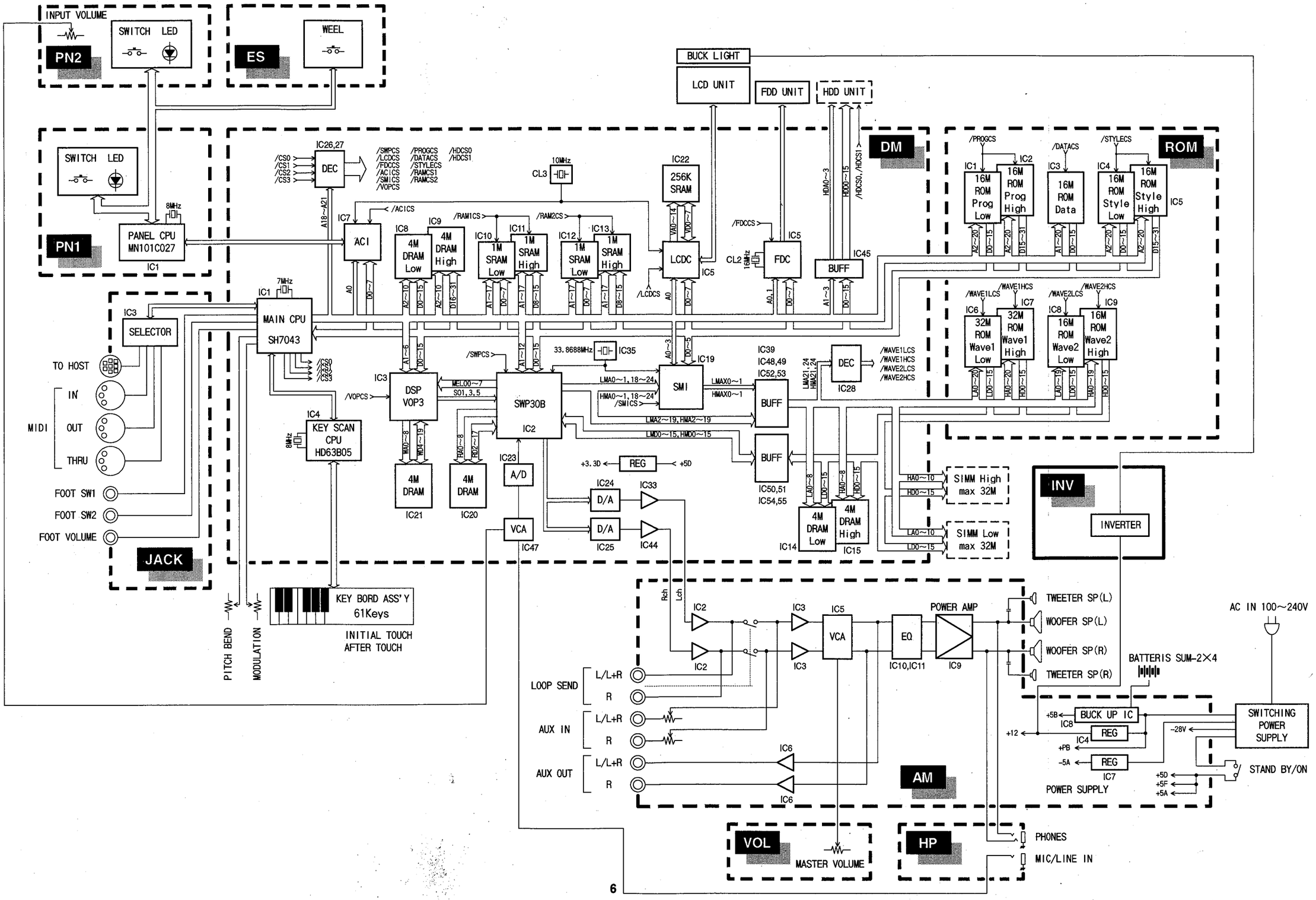
28. PHONES Jack
29. MIC/LINE IN

● **Rear Panel**

1. AUX OUT L/L+R and R Jacks
2. AUX IN L/L+R and R(LOOP RETURN)Jacks with TRIM Control
3. LOOP SEND L/L+R and R jacks
4. FOOT PEDAL SWITCH 1 and 2 Jack
5. FOOT PEDAL VOLUME Jack
6. MIDI IN,THRU and OUT Connectors
7. To HOST Connector & HOST SELECT Switch

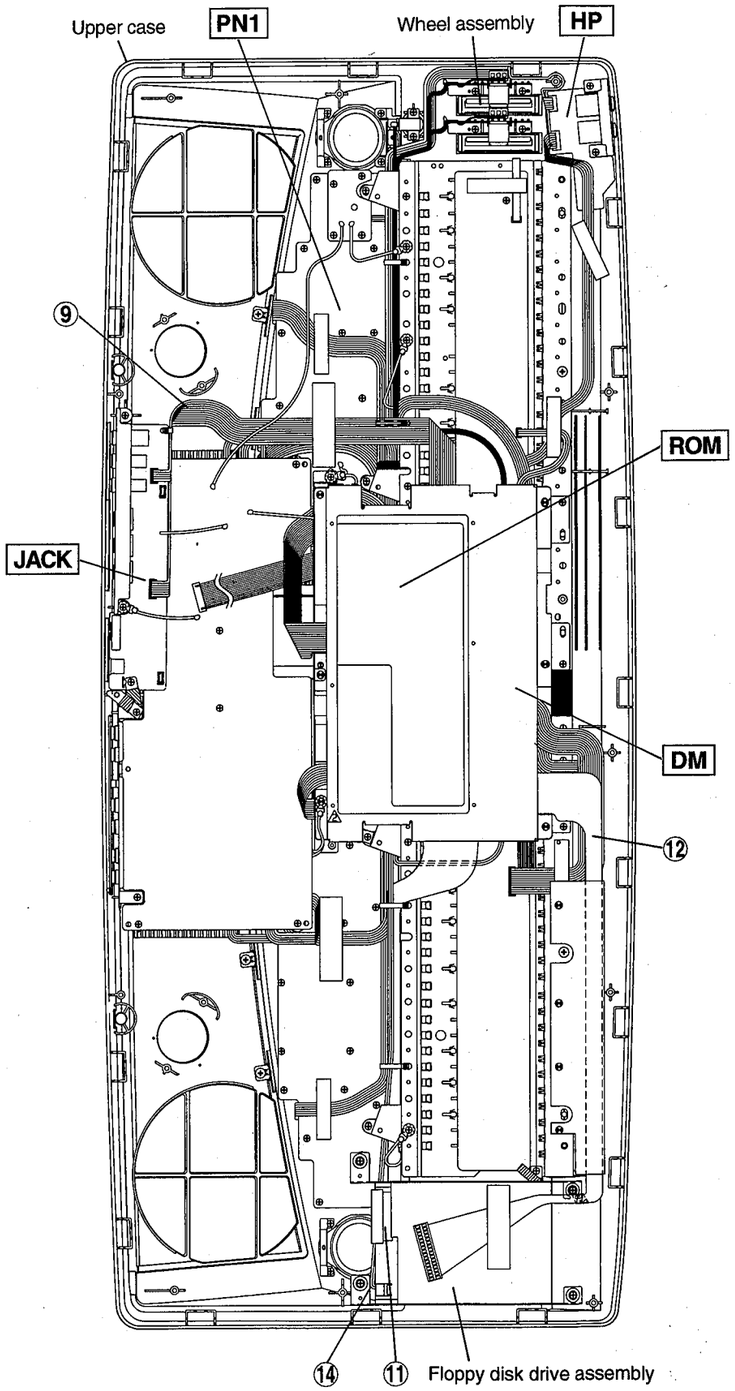
PSR-8000

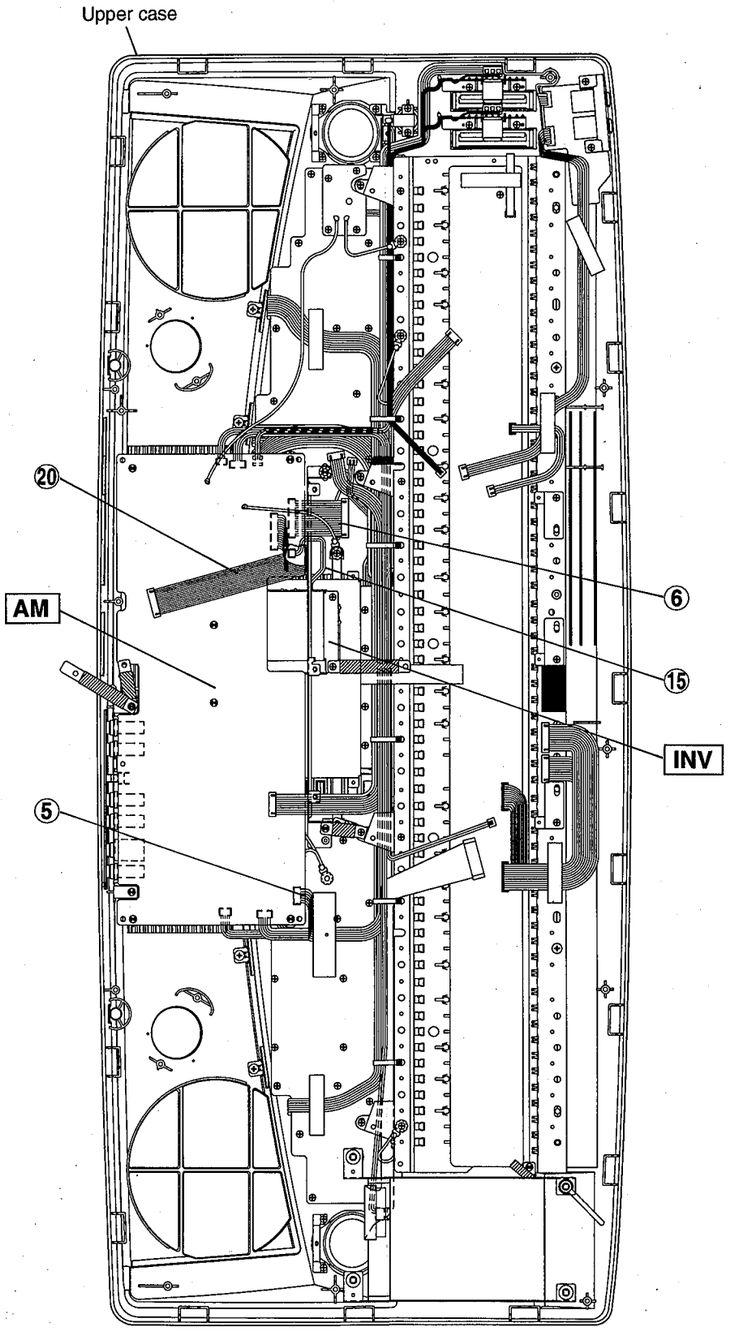
■ BLOCK DIAGRAM

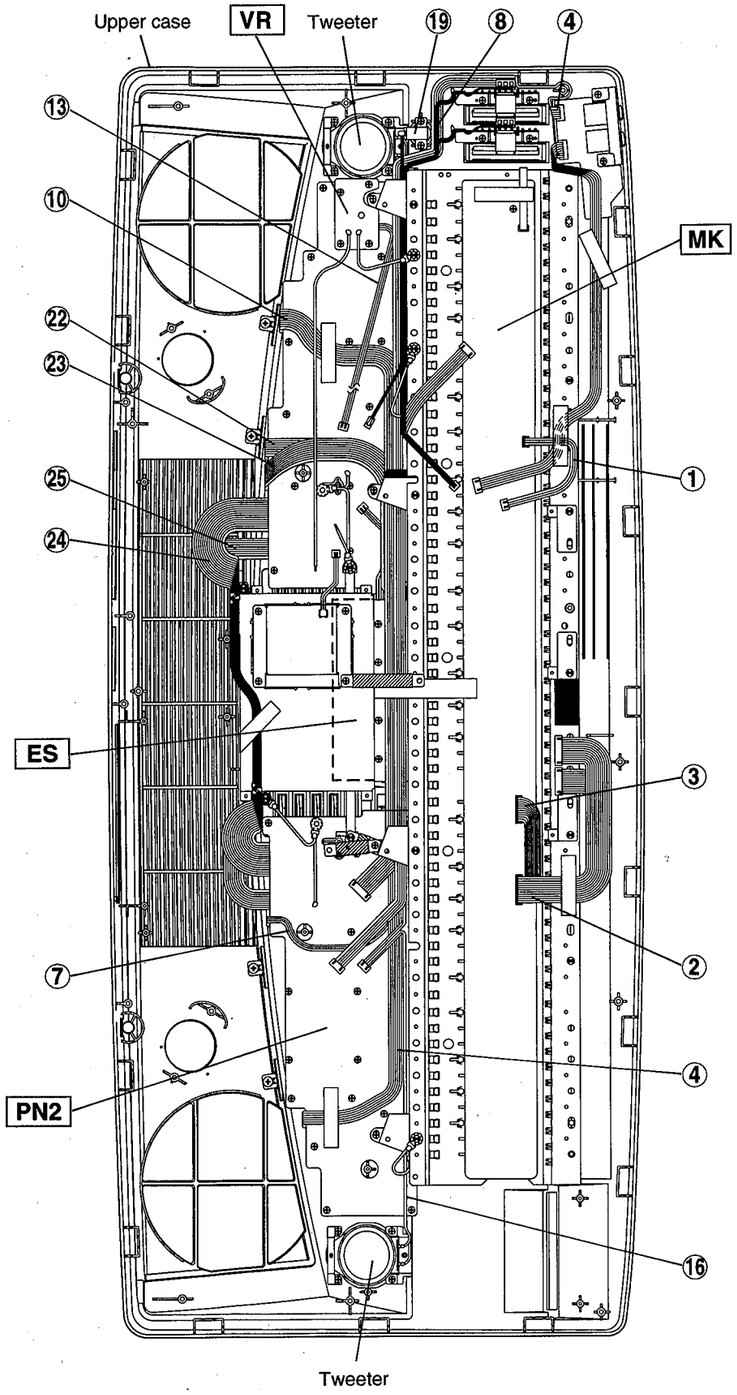


■ CIRCUIT BOARD LAYOUT

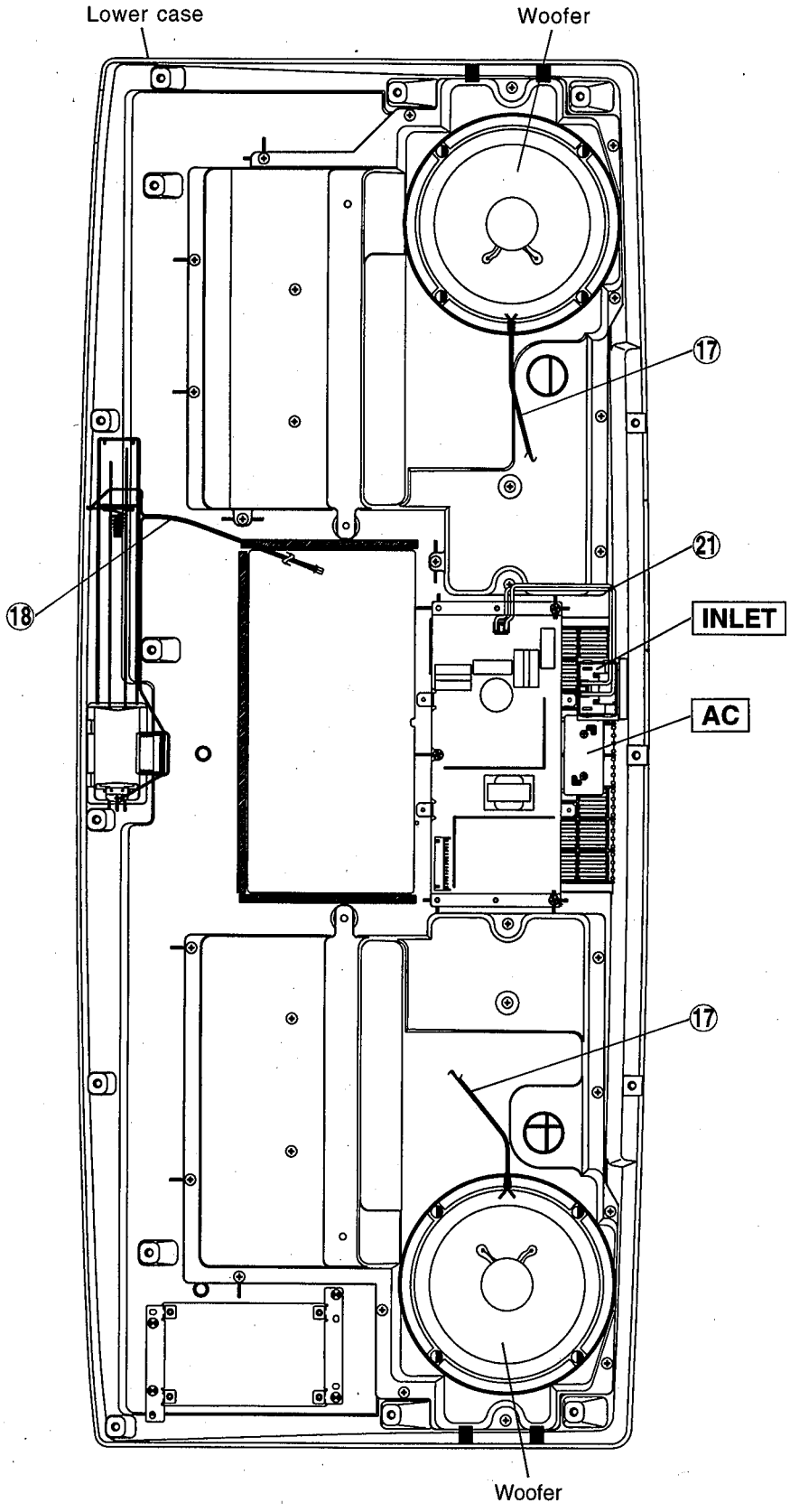
• Upper Case Assembly







• Lower Case Assembly



PSR8000 WIRING

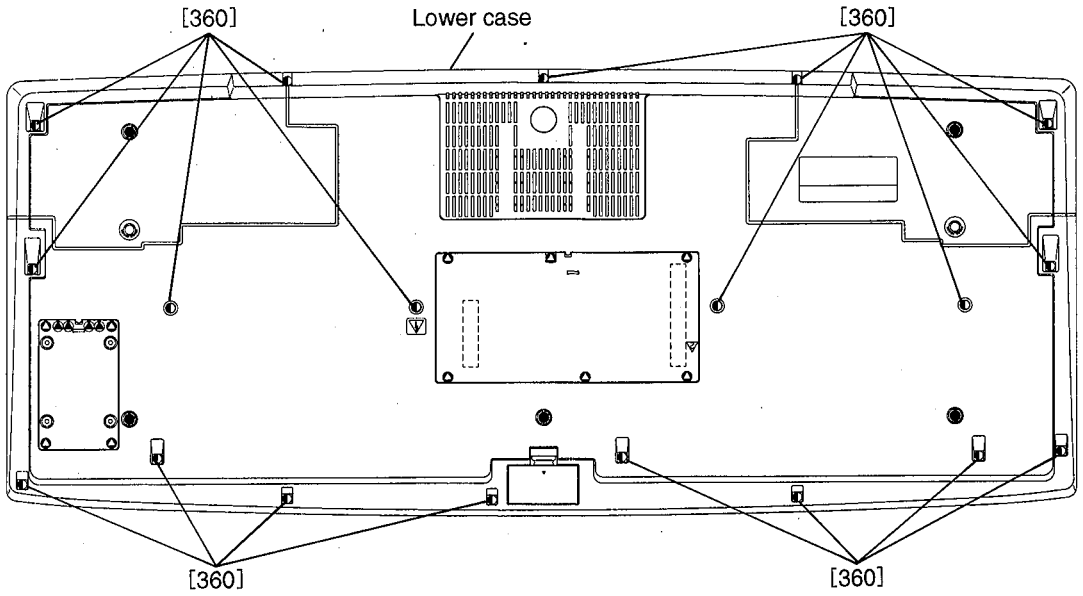
REF. NO.	PART NO.	CONNECTOR ASSEMBLY	DESTINATION		REMARKS	AVAILA -BILITY
1	VY99810	MK1	DM-CN1	MK1MK-CN1	3P/L210	×
2	VY99820	MK3	DM-CN2	MK-CN3	12P	×
3	V200440	MK2	DM-CN3	MK-CN2	11P/L220	×
4	VZ80470	HP-MIC	DM-CN4(*1) DM-CN15(*3) AM-CN8(*5)	HP-CN2(*2) PN2-CN4(*4) HP-CN1(*6)	5P(*1)7P(*2) 6P(*3)8P(*4) 5P(*5)5P(*6)	×
5	VY99840	SIG	DM-CN5	AM-CN2	4P/L600	×
6	VY99850	AM	DM-CN6	AM-CN3	16P/L180	×
7	VY99870	LCDC	DM-CN8	PN2-CN3	3P/L620	×
8	VY99890	WL	DM-CN10	Wheel assembly	4P/L500	×
9	VY99900	JACK	DM-CN11	JACK-CN1,CN2	12P/L500	×
10	VY99910	PN1	DM-CN12	PN1-CN1	9P/L700	×
11	VY999200	FDD	DM-CN13	FDD	34P	O
12	VY99860	HDD	DM-CN14	HDD	44P	×
13	VY99950	VR	AM-CN1	VR-CN1	3P/L430	×
14	VY99960	FD2	AM-CN4	DM-CN7/FDD	4P/L890	×
15	V200460	INV	AM-CN5	INV-CN1	2P	×
16	VY99970	SPT	AM-CN6	Speaker(T)L,R	4P	×
17	V200450	SPW	AM-CN7	Speaker(W)L,R	4P	×
18	VU07100	BAT	AM-CN9	Battery	2P	×
19	VT35090	POW	AM-CN10	Power switch	2P	×
20	V200480	SWP	AM-CN11	P.S.UNIT-P101	15P	×
21	VT39600	INLET	P.S.UNIT	AC INLET	3P/L220	×
22	VZ00040	ES1	PN1-CN2	ES-CN1	8P/L250	×
23	VZ00050	ES2	PN1-CN3	ES-CN2	10P/L250	×
24	VZ00060	L-R1	PN1-CN4	PN2-CN1	15P/L360	×
25	VZ00070	L-R2	PN1-CN5	PN2-CN2	9P/L350	×

NOTE : REF. NO. is indicated in the CIRCUIT BOARD LAYOUT figures in page 8,page 9 and page 10.
REF NO.1-10 and NO.12-25 are not available as spare parts, and REF NO.11 is available as spare parts.

■ DISASSEMBLY PROCEDURE

1 Lower Case Assembly

1-1 Remove the nineteen (19) screws marked as [360]; then the lower case assembly can be removed. (Fig. 1)



[360]:Bind Head Tapping Screw-B 4.0X14 MFZN2Y (EP600750)

(Fig.1)

2 DM & ROM Circuit Boards

2-1 Remove the lower case assembly. (See procedure 1)

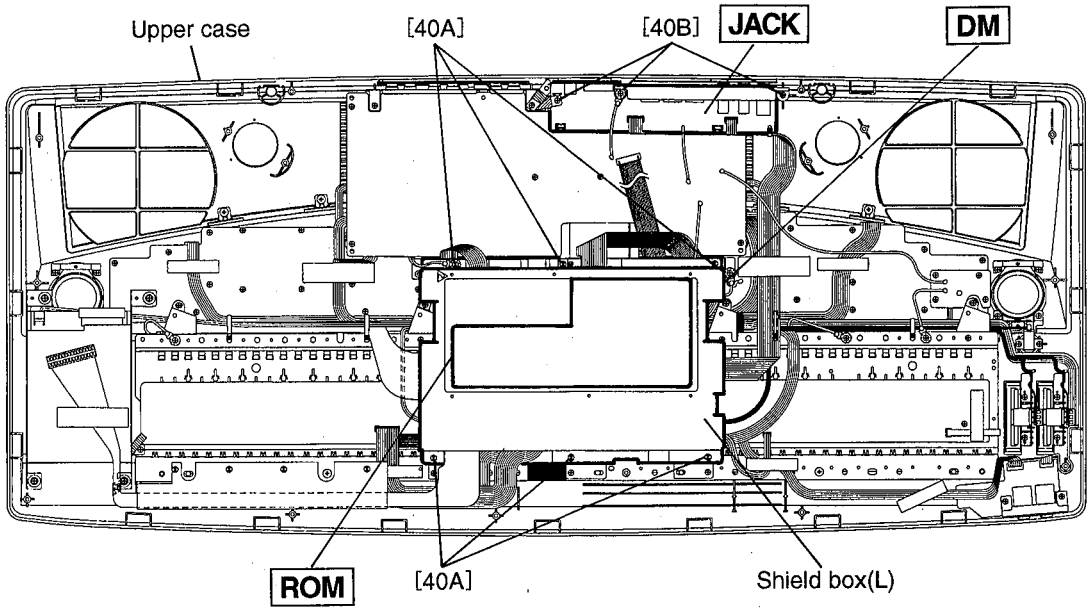
2-2 Remove the six (6) screws marked as [40A]; then the shield box (L) and the DM circuit board can be removed. (Fig. 2)

2-3 Remove the ROM circuit board from the DM circuit board. (Fig. 2)

3 JACK Circuit Board

3-1 Remove the lower case assembly. (See procedure 1)

3-2 Remove the three (3) screws marked as [40B]; then the JACK circuit board can be removed. (Fig. 2)



[40]: Bind Head Tapping Screw-B 3.0X8 MFZN2Y (EP600250)

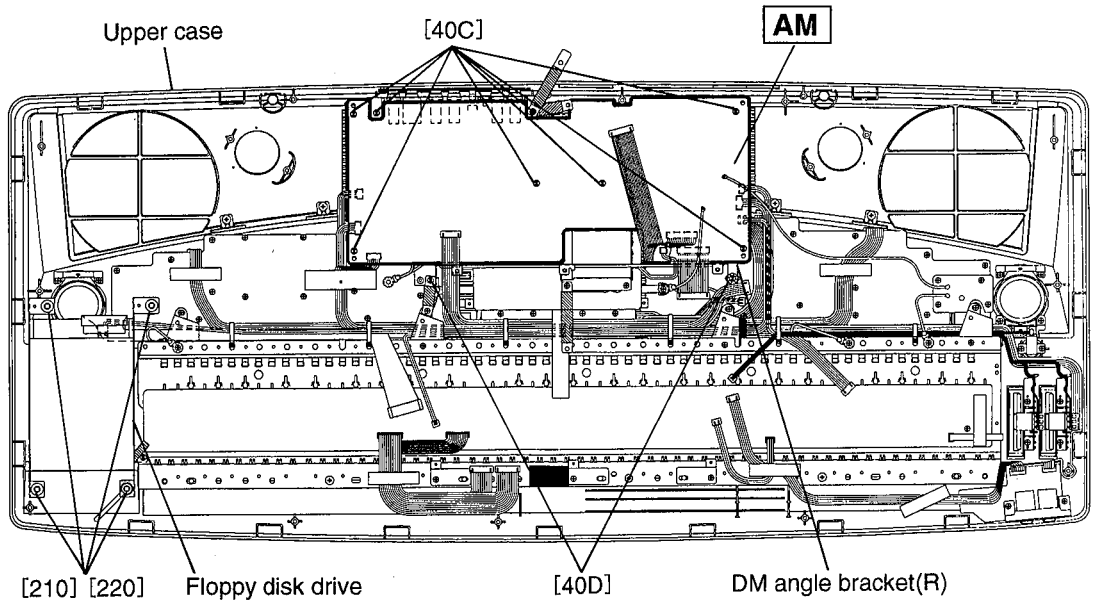
(Fig.2)

4 AM Circuit Board

4-1 Remove the lower case assembly. (See procedure 1)
4-2 Remove the JACK circuit board. (See procedure 3)
4-3 Remove the eight (8) screws marked as [40C]; then the AM circuit board can be removed. (Fig. 3)

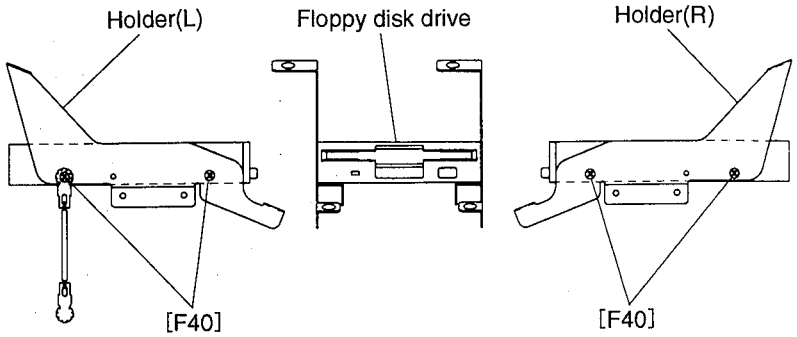
5 Floppy Disk Drive

5-1 Remove the lower case assembly. (See procedure 1)
5-2 Remove the four (4) screws marked as [220] and four (4) flat washers marked [210]; then the floppy disk drive assembly can be removed. (Fig. 3)
5-3 Remove the four (4) screws marked as [F40]; then remove the right and left holders from the floppy disk drive. (Fig. 4)



[40]: Bind Head Tapping Screw-B 3.0X8 MFZN2Y (EP600250)
[210]:Flat Washer 3.5X12 0.8 MFZN2 (VS730200)
[220]:PWHP Tapping Screw-P 3.0X10 MFZN2Y (VD964600)

(Fig.3)



[F40]:Bonding Head Screw 3.0X6 MFNI33 (VK712400)

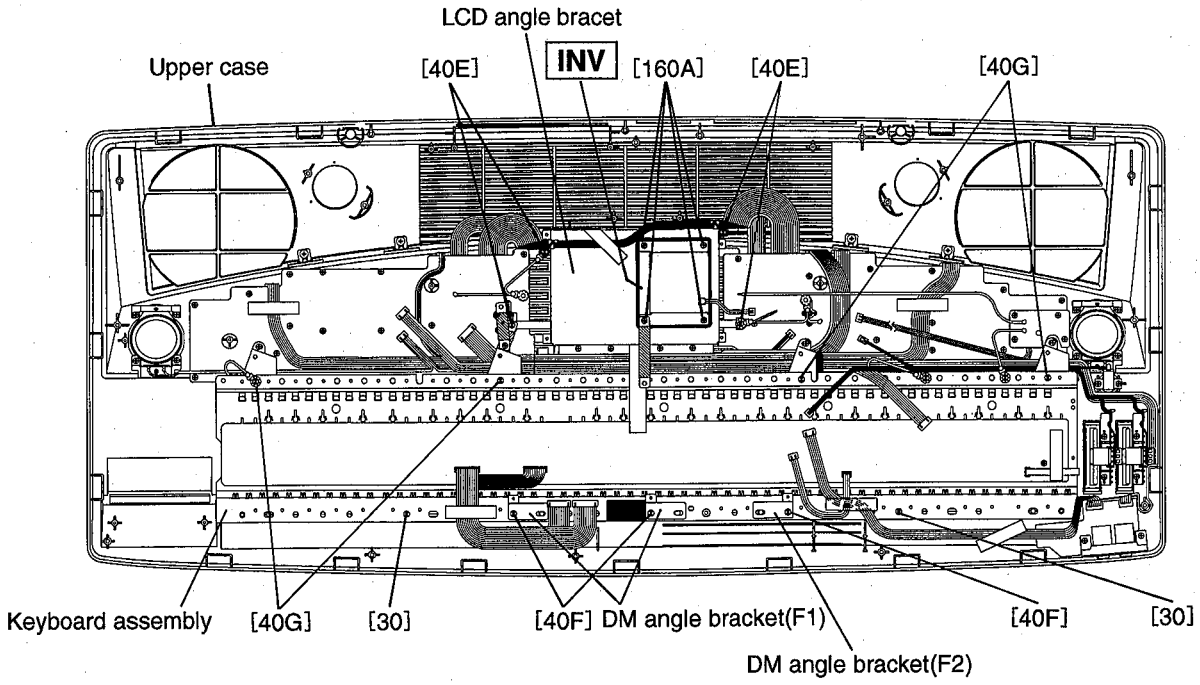
(Fig.4)

6 INV Circuit Board and LCD

6-1 Remove the lower case assembly. (See procedure 1)
6-2 Remove the DM circuit board. (See procedure 2)
6-3 Remove the JACK circuit board. (See procedure 3)
6-4 Remove the AM circuit board. (See procedure 4)
6-5 Remove the two (2) screws marked as [40D] to remove the DM angle bracket (R). (Fig. 3)
6-6 Remove the four (4) screws marked as [160A]; then the INV circuit board can be removed. (Fig. 5)
6-7 Remove the four (4) screws marked as [40E]; then remove the LCD angle bracket and LCD. (Fig. 5)
6-8 Remove the four (4) screws marked as [160B]; then remove the LCD from the angle bracket. (Fig. 6)

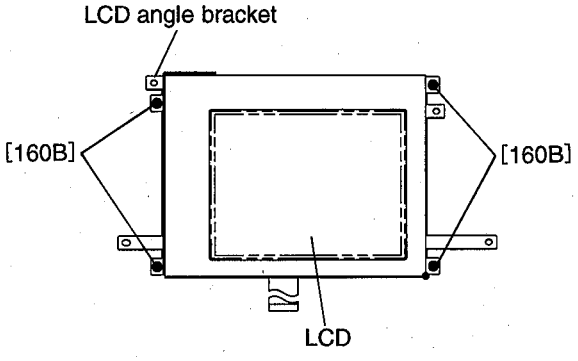
7 Keyboard Assembly

7-1 Remove the lower case assembly. (See procedure 1)
7-2 Remove the DM circuit board. (See procedure 2)
7-3 Remove the three (3) screws marked as [40F] to remove the DM angle bracket (F1,F2). (Fig. 5)
7-4 Remove the four (4) screws marked as [40G] and the two (2) screws marked as [30]; then the keyboard assembly can be removed. (Fig. 5)



[30]: Bind Head Tapping Screw-B 4.0X10 MFZN2Y (EP640130)
[40]: Bind Head Tapping Screw-B 3.0X8 MFZN2Y (EP600250)
[160]:Bind Head Tapping Screw-B 3.0X6 MFZN2BL (EP600230)

(Fig.5)



[160]:Bind Head Tapping Screw-B 3.0X6 MFZN2BL (EP600230)

(Fig.6)

8 POWER Switch

8-1 Remove the lower case assembly. (See procedure 1)
8-2 Remove the two (2) screws marked as [560A]; then the POWER switch can be removed. (Fig. 7)

9 Wheel Assembly

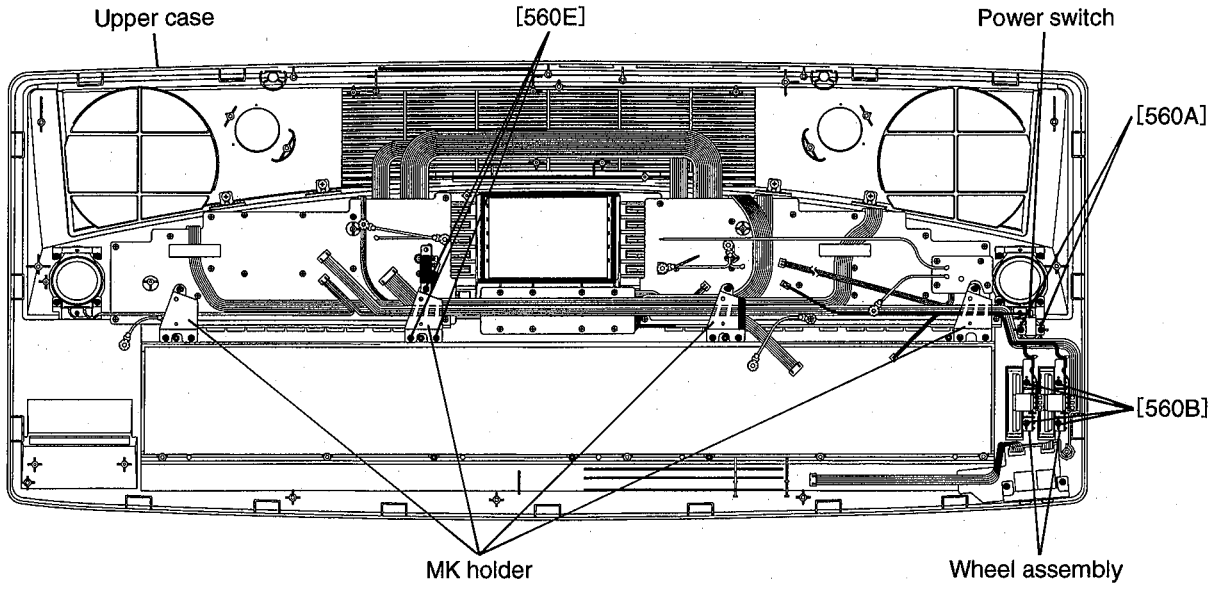
9-1 Remove the lower case assembly. (See procedure 1)
9-2 Remove the four (4) screws marked as [560B]; then the wheel assembly can be removed. (Fig. 7)

10 VR Circuit Board

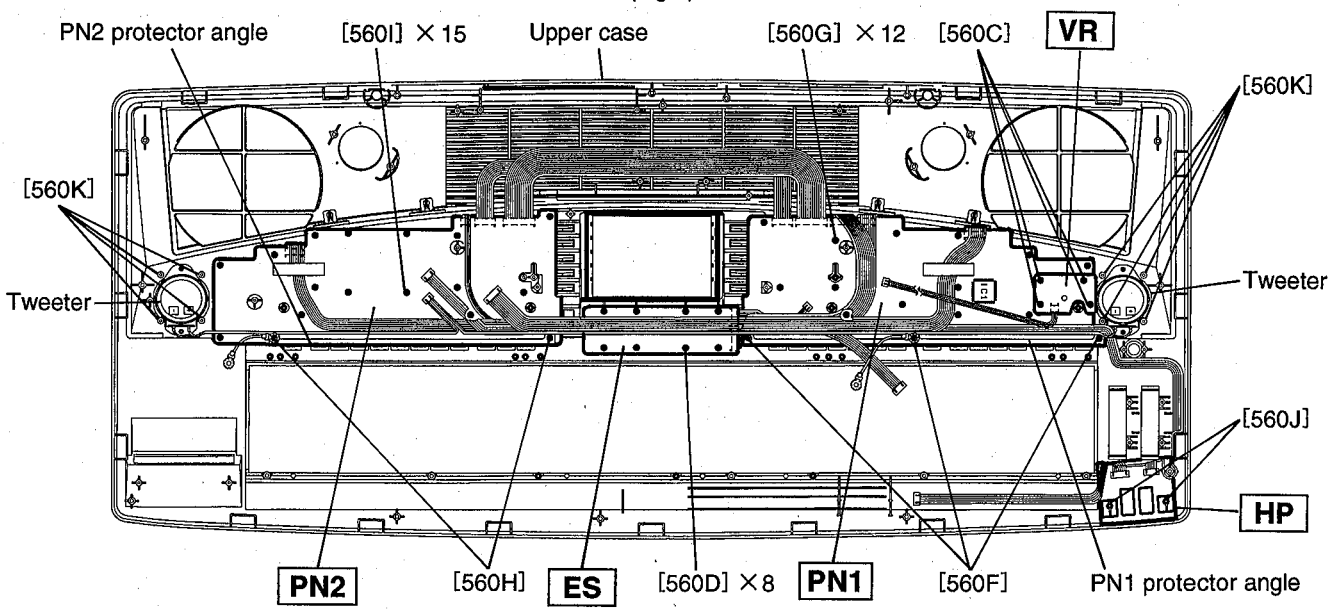
10-1 Pull off the VOLUME knob.
10-2 Remove the lower case assembly. (See procedure 1)
10-3 Remove the four (4) screws marked as [560C]; then the VR circuit board can be removed. (Fig. 8)

11 ES, PN1and PN2 Circuit Boards

11-1 Remove the lower case assembly. (See procedure 1)
11-2 Remove the DM circuit board. (See procedure 2)
11-3 Remove the JACK circuit board. (See procedure 3)
11-4 Remove the AM circuit board. (See procedure 4)
11-5 Remove the floppy disk drive assembly. (See procedure 5)
11-6 Remove the two (2) screws marked as [40D] to removed the DM angle bracket (R). (Fig. 3)
11-7 Remove the keyboard assembly. (See procedure 7)
11-8 Remove the VR circuit board. (See procedure 10)
11-9 Remove the eight (8) screws marked as [560D]; then the ES circuit board can be removed. (Fig. 8)
11-10 Remove the screws marked as [560E] that are holding the MK holder. There are four (4) holders in a unit. (Fig. 7)
11-11 Remove the three (3) screws marked as [560F] to remove the PN1 protector angle. (Fig. 8)
11-12 Remove the twelve (12) screws marked as [560G], then the PN1 circuit board can be removed. (Fig. 8)
11-13 Remove the two (2) screws marked as [560H] to remove the PN2 protector angle. (Fig. 8)
11-14 Remove the fifteen (15) screws marked as [560I], then the PN2 circuit board can be removed. (Fig. 8)



(Fig.7) [560]:Bind Head Tapping Screw-B 3.0X10 MFZN2Y (EP600220)



(Fig.8) [560]:Bind Head Tapping Screw-B 3.0X10 MFZN2Y (EP600220)

12 HP Circuit Board

12-1 Remove the lower case assembly. (See procedure 1)
12-2 Remove the two (2) screws marked as [560J]; then the HP circuit board can be removed. (Fig. 8)

13 Speakers (Tweeters)

13-1 Remove the lower case assembly. (See procedure 1)
13-2 Remove the four (4) screws marked as [560K]; then the right and left tweeters can be removed. (Fig. 8)

14 Power Supply Unit

14-1 Remove the lower case assembly. (See procedure 1)
14-2 Remove the six (6) screws marked as [80A] and the two (2) screws marked as [90A]; then the cover can be removed. (Fig. 9)
14-3 Remove the three (3) screws marked as [90B]; then the power supply unit can be removed. (Fig. 10)

15 INLET Circuit Board

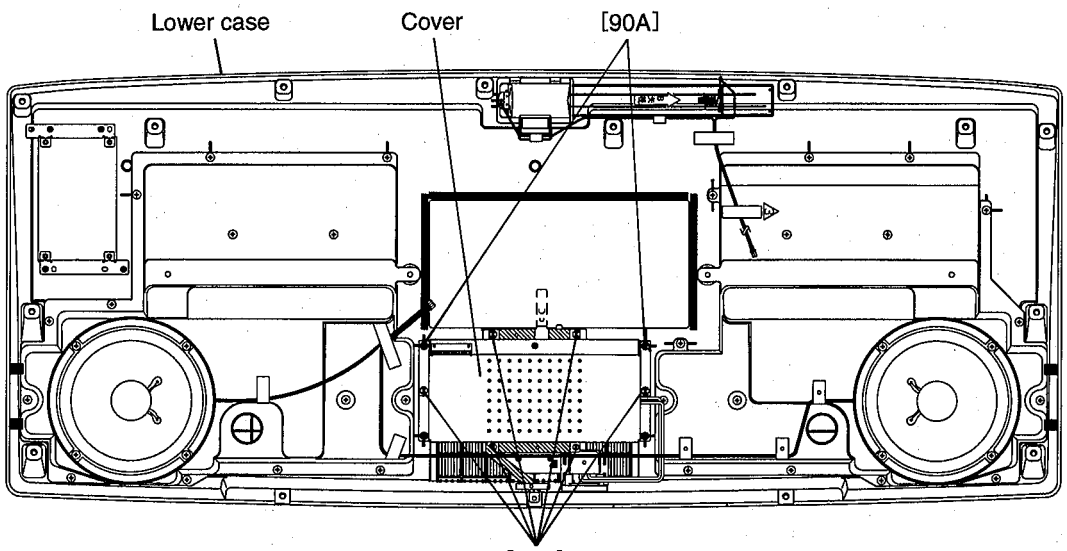
15-1 Remove the lower case assembly. (See procedure 1)
15-2 Remove the two (2) screws marked as [90C]; then the INLET circuit board can be removed. (Fig. 10)

16 AC Circuit Board

16-1 Remove the lower case assembly. (See procedure 1)
16-2 Remove the two (2) screws marked as [80B]; then the AC circuit board can be removed. (Fig. 10)

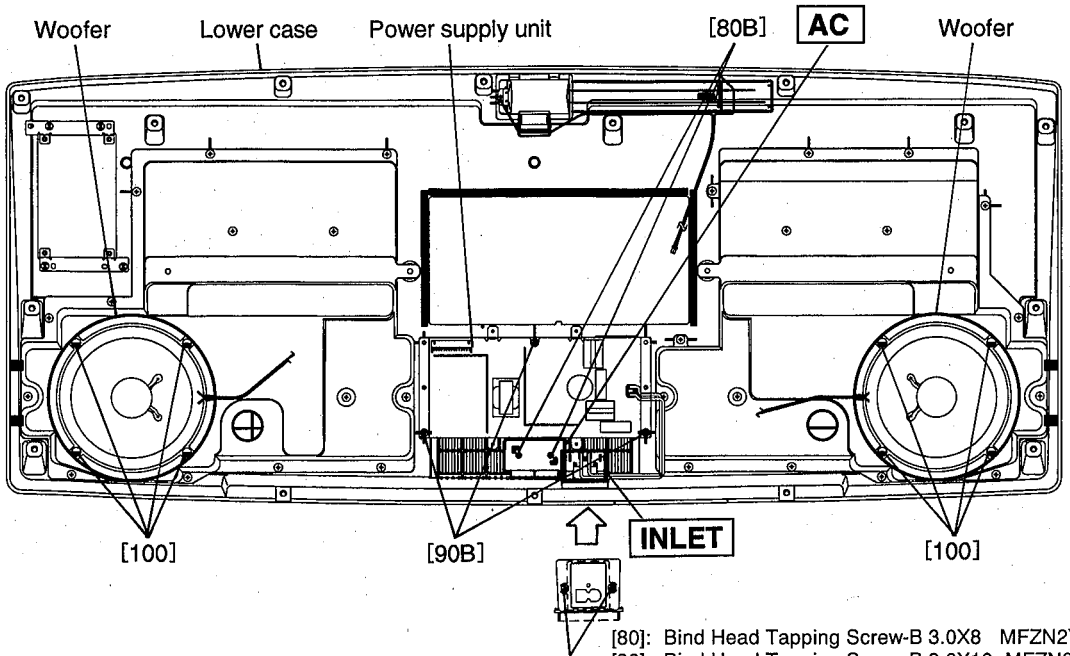
17 Speakers (Woofers)

17-1 Remove the lower case assembly. (See procedure 1)
17-2 Remove the four (4) screws marked as [100]; then the right and left woofers can be removed. (Fig. 10)



[80]: Bind Head Tapping Screw-B 3.0X8 MFZN2Y (EP600250)
[90]: Bind Head Tapping Screw-B 3.0X10 MFZN2BL (EP600140)

(Fig.9)



[80]: Bind Head Tapping Screw-B 3.0X8 MFZN2Y (EP600250)
[90]: Bind Head Tapping Screw-B 3.0X10 MFZN2BL (EP600140)
[100]:Bind Head Tapping Screw-B 4.0X14 MFZN2BL (VR525900)

(Fig.10)

■ LSI PIN DESCRIPTION

• SH7043 (XU151100) MAIIN CPU

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	/WRHH	O	Write strobe-HH	71	VSS	I	Ground
2	DACK0	O	DMA acknowledge	72	D16	I/O	
3	/WRHL	O	Write strobe-HL	73	D15	I/O	
4	/CASHH	O	Column address strobe-HH	74	D14	I/O	Data bus
5	PE15	I/O	Port E	75	D13	I/O	
6	VSS	I	Ground	76	D12	I/O	
7	A0	O		77	VCC	I	Power supply
8	A1	O		78	D11	I/O	Data bus
9	A2	O	Address bus	79	VSS	I	Ground
10	A3	O		80	D10	I/O	
11	A4	O		81	D9	I/O	
12	VCC	I	Power Supply	82	D8	I/O	Data bus
13	A5	O	Address bus	83	D7	I/O	
14	VSS	I	Ground	84	D6	I/O	
15	A6	O		85	VCC	I	Power supply
16	A7	O		86	D5	I/O	Data bus
17	A8	O		87	VSS	I	Ground
18	A9	O		88	D4	I/O	
19	A10	O		89	D3	I/O	
20	A11	O	Address bus	90	D2	I/O	Data bus
21	A12	O		91	D1	I/O	
22	A13	O		92	D0	I/O	
23	A14	O		93	VSS	I	Ground
24	A15	O		94	XTAL	I	Crystal oscillator
25	A16	O		95	MD3	I	Mode select
26	VCC	I	Power supply	96	EXTAL	I	Crystall oscillator
27	A17	O	Address bus	97	MD2	I	Mode select
28	VSS	I	Ground	98	NMI	-	Non-maskable interrupt
29	/CASHL	O	Column address strobe-HL	99	VCC	I	Power supply
30	PA19	I/O	Port A	100	PA16	I/O	Port A
31	/RAS	O	Row address strove	101	PA17	I/O	Port A
32	/CASLL	O	Column address strobe-LL	102	MD1	I	Mode select
33	PA18	I/O	Port A	103	MD0	I	Mode select
34	/CASLH	O	Column address strobe-LH	104	PLLVCC	I	PLL Power supply
35	VSS	I	Ground	105	PLLCAP	I	PLL Capacitor
36	RDWR	O	DRAM read/write	106	PLLVSS	I	PLL Ground
37	A18/PB6	O	Address bus/Port B	107	PA15	I/O	Port A
	/IRQ4//BACK		Interrupt request/Bus ackno	108	/RES	I	Reset
38	A19/PB7	O	Adddress bus/Port B	109	/DREQ	I	DMA request
	/IRQ5//BREQ		Interrupt request/Bus request	110	PE1	I/O	Port E
39	A20/PB8	O	Address bus/Port B	111	PE2	I/O	Port E
	/IRQ6//WAIT		Interrupt request/Wait	112	VCC	I	Power supply
40	VCC	I	Power supply	113	PE3	I/O	
41	A21/PB9	O	Address bus/Port B	114	PE4	I/O	Port E
	/IRQ7//ADTRG		Interrupt request/AD trigger	115	PE5	I/O	
42	VSS	I	Ground	116	PE6	I/O	
43	/RD	O	Read	117	VSS	I	Ground
44	/WDTOVF	O	Watch dog timer overflow	118	AN0	I	
45	D31	I/O	Data bus	119	AN1	I	
46	D30	I/O	Data bus	120	AN2	I	Analog input
47	/WRH	O	Write strobe-High	121	AN3	I	
48	/WRL	O	Write strobe-Low	122	AN4	I	
49	/CS1	O	Chip select	123	AN5	I	
50	/CS0	O	Chip select	124	AVSS	I	Analog ground
51	/IRQ3	I	Interrupt request	125	AN6	I	Analog input
52	/IRQ2	I	Interrupt request	126	AN7	I	Analog input
53	/CS3/PA7/TCLKB	O	Chip select/Port A/Timing clock	127	AVREF	I	Analog reference voltage
54	/CS2/PA6/TCLKA	O	Chip select/Port A/Timing clock	128	AVCC	I	Analog power supply
55	VSS	I	Ground	129	VSS	I	Ground
56	D29	I/O		130	RXD0	I	Receive data
57	D28	I/O		131	TXD0	O	Transmit data
58	D27	I/O	Data bus	132	/IRQ0	I	Interrupt request
59	D26	I/O		133	RXD1	I	Receive data
60	D25	I/O		134	PA4	I/O	Port A
61	VSS	I	Ground	135	VCC	I	Power supply
62	D24	I/O	Data bus	136	SCK1	I/O	Serial clock
63	VCC	I/O	Power supply	137	PE7	I/O	
64	D23	I/O		138	PE8	I/O	Port E
65	D22	I/O		139	PE9	I/O	
66	D21	I/O		140	PE10	I/O	
67	D20	I/O	Data bus	141	VSS	I	Ground
68	D19	I/O		142	PE11	I/O	
69	D18	I/O		143	PE12	I/O	Port E
70	D17	I/O		144	PE13	I/O	

• HD63B05V0E90F (XQ650B00) CPU

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	/RES	I	Reset	21	C7	I/O	
2	/INT	I	Interrupt request	22	C6	I/O	
3	NUM	I	Non-maskable interrupt	23	C5	I/O	
4	A7	I/O		24	C4	I/O	Port C
5	A6	I/O		25	C3	I/O	
6	A5	I/O		26	C2	I/O	
7	A4	I/O	Port A	27	C1	I/O	
8	A3	I/O		28	C0	I/O	
9	A2	I/O		29	D0	I/O	
10	A1	I/O		30	D1	I/O	Port D
11	A0	I/O		31	D2	I/O	
12	B0	I/O		32	D3/TX	O	(Serial data output)
13	B1	I/O		33	D4/RX	I	(Serial data input)
14	B2	I/O		34	D5//CK	O	(Clock for serial operation)
15	B3	I/O	Port B	35	D6//INT2	I	(Interrupt request 2)
16	B4	I/O		36	/STBY	I	(Standby mode signal)
17	B5	I/O		37	TIMER	I	Timer
18	B6	I/O		38	XTAL	O	Clock
19	B7	I/O		39	EXTAL	I	Clock
20	VSS		Ground	40	VCC		Power supply

• D65621GF-028-3B9 (XS370A00) SMI

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	LMA24	I	Low Memory Address	41	VDD	-	
2	LMA23	I	Low Memory Address	42	L1RAS2	O	RAS2 for LoMem SIMM 1
3	LMA22	I	Low Memory Address	43	L1RAS3	O	RAS3 for LoMem SIMM 1
4	LMA21	I	Low Memory Address	44	GND	-	
5	LMA20	I	Low Memory Address	45	HDRAS0	O	RAS for HiMem DRAM 0
6	LMA19	I	Low Memory Address	46	HDRAS1	O	RAS for HiMem DRAM 1
7	LMA18	I	Low Memory Address	47	GND	-	
8	HMA24	I	High Memory Address	48	VDD	-	
9	HMA23	I	High Memory Address	49	LDRAS0	O	RAS for LoMem DRAM 0
10	HMA22	I	High Memory Address	50	LDRAS1	O	RAS for LoMem DRAM 1
11	HMA21	I	High Memory Address	51	LMA1	I	Low Memory Address
12	GND	-	No.12	52	LMA0	I	Low Memory Address
13	HMA20	I	High Memory Address	53	GND	-	No.53
14	HMA19	I	High Memory Address	54	LMA1X	O	Low Memory Address Exchanged
15	HMA18	I	High Memory Address	55	LMA0X	O	Low Memory Address Exchanged
16	RASN	I	Row Address Strobe	56	GND	-	
17	H0RAS0	O	RAS0 for HiMem SIMM 0	57	VDD	-	
18	H0RAS1	O	RAS1 for HiMem SIMM 0	58	HMA1	I	High Memory Address
19	GND	-		59	HMA0	I	High Memory Address
20	H0RAS2	O	RAS2 for HiMem SIMM 0	60	HMA1X	O	High Memory Address Exchanged
21	H0RAS3	O	RAS3 for HiMem SIMM 0	61	HMA0X	O	High Memory Address Exchanged
22	GND	-		62	D0	I	Data Input
23	VDD	-		63	D1	I	Data Input
24	L0RAS0	O	RAS0 for LoMem SIMM 0	64	GND	-	
25	L0RAS1	O	RAS1 for LoMem SIMM 0	65	D2	I	Data Input
26	GND	-		66	D3	I	Data Input
27	L0RAS2	O	RAS2 for LoMem SIMM 0	67	D4	I	Data Input
28	L0RAS3	O	RAS3 for LoMem SIMM 0	68	D5	I	Data Input
29	GND	-		69	A2	I	Address
30	VDD	-		70	WRN	I	Write
31	H1RAS0	O	RAS0 for HiMem SIMM 1	71	GND	-	No.71
32	H1RAS1	O	RAS1 for HiMem SIMM 1	72	VDD	-	No.72
33	GND	-		73	CSN	I	Chip Select
34	VDD	-		74	A0	I	Address
35	H1RAS2	O	RAS2 for HiMem SIMM 1	75	A1	I	Address
36	H1RAS3	O	RAS3 for HiMem SIMM 1	76	MCLK	I	Clock (37MHz)
37	GND	-		77	SYI	I	Sync Clock (48kHz)
38	L1RAS0	O	RAS0 for LoMem SIMM 1	78	HBANK	O	HiMem Bank Select 01/23
39	L1RAS1	O	RAS1 for LoMem SIMM 1	79	LBANK	O	LoMem Bank Select 01/23
40	GND	-		80	REFRN	O	Refresh Timing

● µPD71051GU-10-E2 (XS762A00) Serial Controller

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	D2	I/O	Data bus	15	TxRDY	O	Transmit ready
2	D3	I/O	Data bus	16	SYNC/BRK	I/O	Receiver/Break
3	RxD	I	Receive data	17	/CTS	I	MODEM control
4	GND	-	Ground	18	TxEMP	O	Transmitter empty
5	D4	I/O	Data bus	19	TxD	O	Transmit data
6	D5	I/O		20	CLK	I	Main clock
7	D6	I/O		21	RESET	I	Reset
8	D7	I/O		22	/DSR	I	MODEM control
9	/TxCLK	I	Transmitter clock	23	/RTS	O	
10	/WR	I	Write control	24	/DTR	O	
11	/CS	I	Chip select	25	/RxCLK	I	Receive clock
12	C//D	I		26	Vdd	-	Power supply (+5V)
13	/RD	I	Read control	27	D0	I/O	Data bus
14	RxRDY	O	Receive ready	28	D1	I/O	Data bus

● MN101C027 (XS711100) CPU

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	S1	I	Switch matrix data	33	S12	I	Switch matrix data
2	S2	I		34	S13	I	
3	S3	I		35	S14	I	
4	S4	I		36	TXD	O	MIDI transmit data
5	S5	I		37	S15	I	Switch matrix data
6	VREF+	-	Power supply (+5V, analog)	38	S16	I	
7	VDD	-	Power supply (+5V)	39	S17	I	
8	OSC2	O	Crystal oscillator (8MHz)	40	S18	I	
9	OSC1	I	Crystal oscillator (8MHz)	41	L16	O	LED drive data
10	VSS	-	Ground	42	L17	O	
11	XI	I	Not used	43	L18	O	
12	XO	O	Not used	44	L19	O	
13	MMOD	I	Memory mode select (Grounded)	45	L8	O	
14	RD0	O	Rotary encoder data	46	L9	O	
15	RXD	I	MIDI receive data	47	L10	O	
16	D0	O	LED and switch drive data	48	L11	O	
17	D1	O		49	L12	O	
18	D2	O		50	L13	O	
19	D3	O		51	L14	O	
20	D4	O		52	L15	O	
21	/RST	I	Reset	53	L7	O	LED and switch drive data
22	D5	O	LED and switch drive data	54	L6	O	
23	D6	O		55	L5	O	
24	D7	O		56	L4	O	
25	D8	O		57	L3	O	
26	D9	O		58	L2	O	
27	S6	I	Switch matrix data	59	L1	O	
28	S7	I		60	L0	O	
29	S8	I		61	VREF	-	Grounded
30	S9	I		62	AD0	I	Analog input
31	S10	I		63	AD1	I	Analog input
32	S11	I		64	S0	I	Switch matrix data

● PCM1702U (XP551A00) DAC (Digital to Analog Converter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	DATA	I	Data input	11	+VCC		Power supply (+5 V)
2	CLK	I	Clock	12	BPO		Bipolar de-couple
3	NC			13	NC		
4	+VDD		Power supply (+5 V)	14	IOUT	O	Output current
5	D.GND		Digital ground	15	A.GND		Analog ground
6	-VDD		Power supply (-5 V)	16	A.GND		Analog ground
7	L.E	I	Latch enable	17	SERV		Servo de-couple
8	NC			18	NC		
9	NC			19	REF		Reference de-couple
10	NC			20	-VCC		Power supply (-5 V)

● HD63266F (XI939A00) FDC (Floppy Disk Controller)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	8"//5"	I	Data transmission speed	33	/TRKO	I	Track 00 signal
2	XTALSET	I	Clock select	34	/INDEX	I	Index signal
3	/RESET	I	Rest	35	/RDATA	I	Read data input from FDD
4	E//RD	I	Enable/Read	36	XTAL2		Clock
5	RW//WR	I	Read/write/Write	37	EXTAL2		
6	/CS	I	Chip select	38	NC		
7	/DACK	I	DMA acknowledge	39	XTAL1		Clock
8	RS0	I	Register select	40	EXTAL1		
9	RS1	I		41	VSS4		Ground
10	VSS1		Ground	42	VSS5		
11	VSS2			43	NC		
12	D0	I/O		44	VCC2		
13	D1	I/O		45	VCC3		Power supply
14	D2	I/O		46	VCC4		
15	D3	I/O	Data bus	47	/WGATE	O	Write control
16	D4	I/O		48	/WDATA	O	Writ data to FDD
17	D5	I/O		49	VSS6		Ground
18	D6	I/O		50	/STEP	O	Step signal to control head of FDD
19	D7	I/O		51	/HDIR	O	Direction
20	/DREQ	O	DMA request	52	/HLOAD	O	Head load
21	/IRQ	O	Interrupt request	53	/HSEL	O	Head select
22	/DEND	I	Data end	54	VSS7		Ground
23	VSS3		Ground	55	/DS0	O	
24	1/2 EX1			56	/DS1	O	Drive select
25	VCC1		Power supply	57	/DS2	O	
26	NUM1	I		58	/DS3	O	
27	NUM3	I		59	VSS8		Ground
28	IFS	I	Host interface select	60	/MON0	O	
29	SFORM	I	Format data	61	/MON1	O	Motor on
30	/INP	I	Index pulse	62	/MON2	O	
31	/READY	I	Ready from FDD	63	/MON3	O	
32	/WPRT	I	Write control signal	64	VSS9		Ground

● SED1335F0B (XQ595A00) LCDC (LCD Controller)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	VA5	O		31	XD2	O	
2	VA4	O		32	XD1	O	X driver data bus
3	VA3	O	VRAM address bus	33	XD0	O	
4	VA2	O		34	XECL	O	X driver enable chain clock
5	VA1	O		35	XSCL	O	X driver shift clock
6	VA0	O		36	VSS		Ground
7	VR/W	O	VRAM write strobe	37	LP	O	Latch pulse
8	/VCE	O	VRAM chip enable	38	WF	O	Frame signal
9	NC			39	YDIS	O	LCD power down
10	/RES	I	Reset	40	YD	O	Scan start pulse
11	NC			41	YSCL	O	Scan shift clock
12	NC			42	VD7	I/O	
13	/RD	I	80: Read strobe, 68: E clock	43	VD6	I/O	
14	/WR	I	80: Write strobe, 68: Read/Write	44	VD5	I/O	
15	SEL2	I	CPU 80/68 bus select	45	VD4	I/O	VRAM data bus
16	SEL1	I		46	VD3	I/O	
17	OSC1	I	Clock	47	VD2	I/O	
18	OSC2	O		48	VD1	I/O	
19	/CS	I	Chip select	49	VD0	I/O	
20	A0	I	Data bus signal discrimination	50	VA15	O	
21	VDD		Power supply	51	VA14	O	
22	D0	I/O		52	VA13	O	
23	D1	I/O		53	VA12	O	
24	D2	I/O		54	VA11	O	VRAM address bus
25	D3	I/O		55	VA10	O	
26	D4	I/O	Data bus	56	VA9	O	
27	D5	I/O		57	VA8	O	
28	D6	I/O		58	VA7	O	
29	D7	I/O		59	VA6	O	
30	XD3	O	X driver data bus	60	NC		

● TC203C760HF-001 (XR725A00) SWP30 (AWM Tone Generator coped with MEG) Standard Wave Processor)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	Vss		(Ground)	121	VSS		(Ground)
2	CA0	I	Address bus of internal register	122	HMD0	I/O	Wave memory data bus (Upper data memory)
3	CA1	I		123	HMD1	I/O	
4	CA2	I		124	HMD2	I/O	
5	CA3	I		125	HMD3	I/O	
6	CA4	I		126	HMD4	I/O	
7	CA5	I		127	HMD5	I/O	
8	CA6	I		128	HMD6	I/O	
9	CA7	I		129	HMD7	I/O	
10	CA8	I		130	HMD8	I/O	
11	CA9	I		131	HMD9	I/O	
12	CA10	I		132	HMD10	I/O	
13	CA11	I		133	HMD11	I/O	
14	VSS		(Ground)	134	HMD12	I/O	
15	CD0	I/O	Data bus of internal register	135	HMD13	I/O	
16	CD1	I/O		136	HMD14	I/O	
17	CD2	I/O		137	HMD15	I/O	
18	CD3	I/O		138	VSS		(Ground)
19	CD4	I/O		139	HMA0	O	Wave memory address bus (Upper 16 bits)
20	CD5	I/O		140	HMA1	O	
21	CD6	I/O		141	HMA2	O	
22	CD7	I/O		142	HMA3	O	
23	CD8	I/O		143	HMA4	O	
24	CD9	I/O		144	HMA5	O	
25	CD10	I/O		145	HMA6	O	
26	CD11	I/O		146	HMA7	O	
27	CD12	I/O		147	HMA8	O	
28	CD13	I/O		148	HMA9	O	
29	CD14	I/O		149	HMA10	O	
30	VDD		(Power supply)	150	VSS		(Ground)
31	VSS		(Ground)	151	VDD		(Power supply)
32	CD15	I/O		152	HMA11	O	
33	/CS	I	Chip select	153	HMA12	O	
34	/WR	I	Write strobe	154	HMA13	O	
35	/RD	I	Read strobe	155	HMA14	O	
36	VDDS		(Power-supply)	156	HMA15	O	
37	SYSH0	O	NSYS/LNSYS upper 16 bits	157	HMA16	O	
38	SYSH1	O		158	HMA17	O	
39	SYSH2	O		159	HMA18	O	
40	SYSH3	O		160	HMA19	O	
41	SYSH4	O		161	HMA20	O	
42	SYSH5	O		162	HMA21	O	
43	SYSH6	O		163	HMA22	O	
44	SYSH7	O		164	HMA23	O	
45	KONO0	O	Key on data	165	HMA24	O	
46	KONO1	O		166	VSS		(Ground)
47	KONO2	O		167	/MRAS	O	RAS when DRAM(s) is connected to wave memory
48	KONO3	O		168	/MCAS	O	CAS when DRAM(s) is connected to wave memory
49	VSS		(Ground)	169	/MOE	O	Wave memory output enable
50	SYSL0	I/O	NSYS input/LNSYS output lower 8 bits	170	/MWE	O	Wave memory write enable
51	SYSL1	I/O		171	VSS		(Ground)
52	SYSL2	I/O		172	LMD0	I/O	Wave memory data bus (Lower data memory)
53	SYSL3	I/O		173	LMD1	I/O	
54	SYSL4	I/O		174	LMD2	I/O	
55	SYSL5	I/O		175	LMD3	I/O	
56	SYSL6	I/O		176	LMD4	I/O	
57	SYSL7	I/O		177	LMD5	I/O	
58	KONI0	I	Key on data	178	LMD6	I/O	
59	KONI1	I		179	LMD7	I/O	
60	VDDS	I	(Power supply)	180	VDDS		(Power supply)
61	VSS		(Ground)	181	VSS		(Ground)
62	KONI2	I		182	LMD8	I/O	
63	KONI3	I		183	LMD9	I/O	
64	DAC0	O	DAC output	184	LMD10	I/O	
65	DAC1	O		185	LMD11	I/O	
66	WCLK	O	DAC0/DAC1 word clock	186	LMD12	I/O	
67	MELO0	O	MEL wave data output	187	LMD13	I/O	
68	MELO1	O		188	LMD14	I/O	
69	MELO2	O		189	LMD15	I/O	
70	MELO3	O		190	VSS		(Ground)
71	MELO4	O		191	LMA0	O	Wave memory address bus (Lower data memory)
72	MELO5	O		192	LMA1	O	
73	MELO6	O		193	LMA2	O	
74	MELO7	O		194	LMA3	O	
75	VDDS		(Power supply)	195	LMA4	O	
76	ADLR	O	ADC word clock	196	LMA5	O	
77	MELI0	I	MEL wave data input	197	LMA6	O	
78	MELI1	I		198	LMA7	O	
79	MELI2	I		199	LMA8	O	
80	MELI3	I		200	LMA9	O	
81	MELI4	I		201	LMA10	O	
82	MELI5	I		202	LMA11	O	
83	MELI6	I		203	VSS		(Ground)
84	MELI7	I		204	LMA12	O	
85	VSS		(Ground)	205	LMA13	O	
86	/RCAS	O	DRAM column address strobe	206	LMA14	O	
87	RA8	O	DRAM address bus	207	LMA15	O	
88	RA7	O		208	LMA16	O	
89	RA6	O		209	LMA17	O	
90	VDD		(Power supply)	210	VDD		(Power supply)
91	VSS		(Ground)	211	VSS		(Ground)
92	RA5	O		212	LMA18	O	
93	RA4	O		213	LMA19	O	
94	RA3	O		214	LMA20	O	
95	RA2	O		215	LMA21	O	
96	RA1	O		216	LMA22	O	
97	RA0	O		217	LMA23	O	
98	/RRAS	O	DRAM row address strobe	218	LMA24	O	
99	/RWE	O	DARM write enable	219	VSS		(Ground)
100	VSS		(Ground)	220	SYO	O	Sync. signal for master clock
101	RD7	I/O	DRAM data bus	221	SYOD	O	Sync. signal for HCLK/QCLK
102	RD6	I/O		222	QCLK	O	1/12 master clock (64Fs)
103	RD5	I/O		223	HCLK	O	1/6 master clock (128Fs)
104	RD4	I/O		224	CK256	O	1/3 master clock (256Fs)
105	RD3	I/O		225	SYSCLK	O	1/2 master clock (384Fs)
106	RD2	I/O		226	VDDS		(Power supply)
107	RD1	I/O		227	SYI	I	Sync. clock
108	RD0	I/O		228	MCLKI	I	Master clock input
109	VSS		(Ground)	229	MCLKO	O	Master clock output
110	RD17	I/O		230	VDD		(Power supply)
111	RD16	I/O		231	XIN	I	Crystal osc. input
112	RD15	I/O		232	XOUT	O	Crystal osc. output
113	RD14	I/O		233	VSS		(Ground)
114	RD13	I/O		234	/IC	I	Initial clear
115	RD12	I/O		235	CHIP2	I	2 chips mode enable
116	RD11	I/O		236	SLAVE	I	Master/Slave select when 2 chips mode
117	RD10	I/O		237	/TESTO	I	Test pin
118	RD9	I/O		238	/ACI	I	
119	RD8	I/O		239	DCTEST	I	
120	VDDS		(Power supply)	240	VDDS		(Power supply)

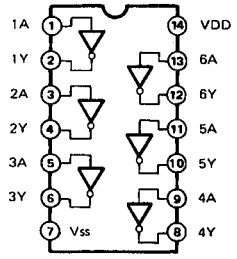
• YSS236-F (XT013A00) VOP3

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	VSS		Power supply	81	SO7	O	
2	WA17	O		82	SO6	O	Serial output
3	WA16	O		83	SO5	O	
4	WA15	O		84	VDD		Ground
5	WA14	O	External memory address bus	85	VSS		Power supply
6	WA13	O		86	SO4	O	
7	WA12	O		87	SO3	O	
8	WA11	O		88	SO2	O	Serial output
9	WA10			89	SO1	O	
10	VDD		Ground	90	SO0	O	
11	VSS		Power supply	91	WDCK	O	Data enable for DAC
12	WA09	O		92	SWPKON	O	SWP00 format key on output
13	WA08	O		93	IRQN	O	EG interrupt
14	WA07	O		94	VDD		Ground
15	WA06	O	External memory address bus	95	VSS		Power supply
16	WA05	O		96	XTAL_I	I	Quartz crystal terminal
17	WA04	O		97	XTAL_O	O	Quartz crystal terminal
18	WA03	O		98	MCLK	O	Oscillate clock output
19	WA02	O		99	VDD		Ground
20	VDD		Ground	100	VSS		Power supply
21	VSS		Power supply	101	MICN	I	Initial clear
22	WA01	O	External memory address bus	102	CLKIN	I	Master clock input
23	WA00	O		103	SYWIN	I	Sync.signal input
24	WEN	O	External memory control (WEN)	104	SYW	O	Sync.signal output
25	OEN	O	External memory control (OEN)	105	SYWD	O	Sync.signal output
26	RASN	O	External memory control (RASN)	106	VDD		Ground
27	CASN	O	External memory control (CASN)	107	VSS		Power supply
28	CEN	O	External memory control (CEN)	108	CLKO	O	For test (512 fs output)
29	VDD		Ground	109	WCLK	O	2 times sync.clock output (256fs)
30	VSS		Power supply	110	HCLK	O	4 times sync.clock output (128fs)
31	WD19	I/O		111	QCLK	O	8 times sync.clock output (64fs)
32	WD18	I/O		112	TSTCI	I	PLL test input
33	WD17	I/O	External memory data bus	113	VDD		Ground
34	WD16	I/O		114	VSS		Power supply
35	WD15	I/O		115	(NC)		
36	WD14	I/O		116	VDD(PLL)		
37	VDD		Ground	117	CPO	O	PLL control output
38	VSS		Power supply	118	CPIN	I	PLL control input
39	WD13	I/O		119	REF	I	PLL control input
40	WD12	I/O		120	VSS(PLL)		
41	WD11	I/O		121	(NC)		
42	WD10	I/O	External memory data bus	122	VDD		Ground
43	WD09	I/O		123	VSS		Power supply
44	WD08	I/O		124	TSTCS	I	PLL test input
45	WD07	I/O		125	CA6	I	
46	VDD		Ground	126	CA5	I	
47	VSS		Power supply	127	CA4	I	CPU address bus
48	WD06	I/O		128	CA3	I	
49	WD05	I/O		129	CA2	I	
50	WD04	I/O		130	VDD		Ground
51	WD03	I/O	External memory data bus	131	VSS		Power supply
52	WD02	I/O		132	CA1	I	CPU address bus
53	WD01	I/O		133	CA0	I	Lo/Hi select in 8 bits write
54	WD00	I/O		134	CSN	I	Chip select
55	VDD		Ground	135	RDN	I	Register read
56	VSS		Power supply	136	WRN	I	Register write
57	TST2	O		137	BTYP		Data bus type select
58	TST1	O	Test output	138	VDD		Ground
59	TST0	O		139	VSS		Power supply
60	MS	I	Memory select	140	CD15	I/O	
61	LRCLK	O	LR clock for ADC	141	CD14	I/O	
62	SI7	I	Serial input	142	CD13	I/O	CPU data bus
63	SI6	I		143	CD12	I/O	
64	VDD		Ground	144	CD11	I/O	
65	VSS		Power supply	145	VDD		Ground
66	SI5	I		146	VSS		Power supply
67	SI4	I		147	CD10	I/O	
68	SI3	I	Serial input	148	CD09	I/O	
69	SI2	I		149	CD08	I/O	CPU data bus
70	SI1	I		150	CD07	I/O	
71	SI0	I		151	CD06	I/O	
72	DB1	I		152	CD05	I/O	
73	DB0	I	Output bit type select for DAC	153	VDD		Ground
74	VDD		Ground	154	VSS		Power supply
75	VSS		Power supply	155	CD04	I/O	
76	ODFM	I	Output mode select for DAC	156	CD03	I/O	
77	OFS3	I		157	CD02	I/O	CPU data bus
78	OFS2	I	Serial output format select	158	CD01	I/O	
79	OFS1	I		159	CD00	I/O	
80	OFS0	I		160	VDD		Ground

■ IC BLOCK DIAGRAM

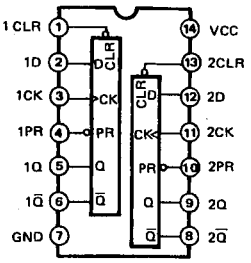
- **HD74HC04FPEL** (XL092A00)
- **TC74HC04AF** (XL980A00)
- **TC74VHC04F** (XM332A00)
- **TC74HCU04AF-TPI** (XD660A00)
- **SN74HCU04N** (IG142250)

Hex Inverter



- **TC74HC74AF** (XP003A00)
- **SN74HC74NSR** (XC726A00)

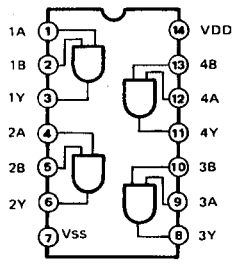
Dual D-Type Flip-Flop



INPUTS				OUTPUTS	
PR	CLR	CLK	D	Q	Q
L	H	X	X	H	L
H	L	X	X	L	H
L	L	X	X	H	H
H	H	↑	H	H	L
H	H	↑	L	L	H
H	H	L	X	Q_0	$\bar{Q}_0$

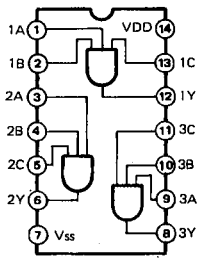
- **TC74VHC08F** (XT014A00)

Quad 2 Input AND



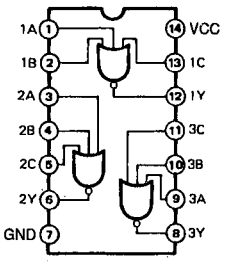
- **TC74VHC11F (EL)** (XT812A00)

Hex Inverter



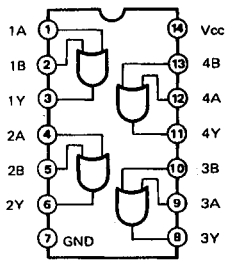
- **SN74HC27NS** (XT789A00)

Triple 3 Input NOR



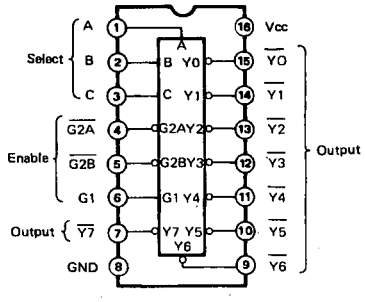
- **TC74VHC32F-TEL** (XR337A00)

Quad 2 Input OR



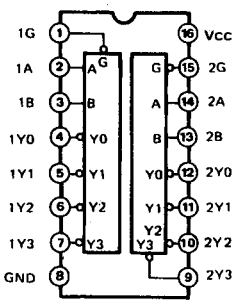
- **TC74VHC138F** (XT015A00)

3 to 8 Demultiplexer



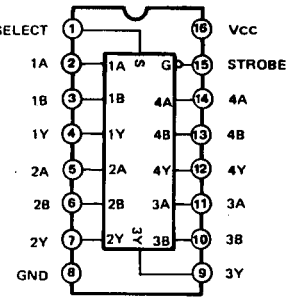
- **HD74LV139FPEL** (XS048A00)

Dual 2 to 4 Demultiplexer



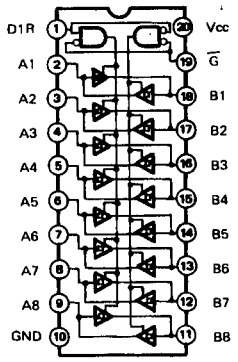
- **TC74VHC157F (EL)** (XT475A00)

Quad 2 to Multiplexer



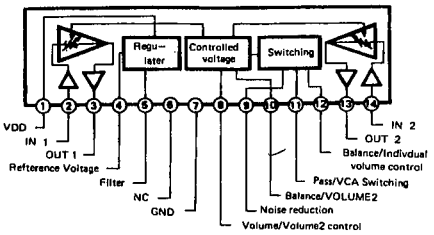
- **SN74HC245NSR** (XD838A00)
- **TC74HC245AF** (XS720A00)
- **TC74VHC245F** (XT487A00)

Octal 3-State Bus Transceiver



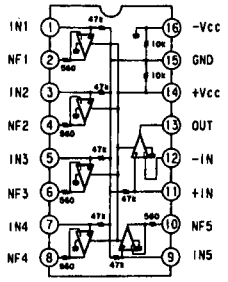
- **M51132L** (XE470A00)

VCA



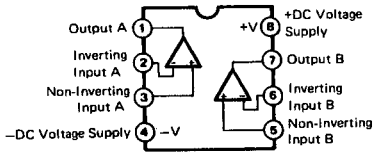
- **M5227P** (XF751A00)

5-Band Graphic Equalizer



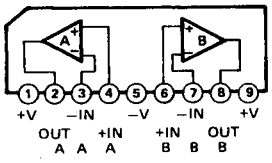
- **RC4558D-V** (IG001390)

Dual Operational Amplifier



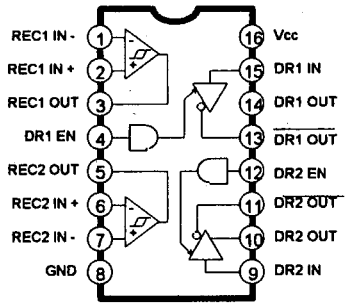
- **UPC4570G2** (XF291A00)
- **UPC4570HA** (XB247A00)

Dual Operational Amplifier



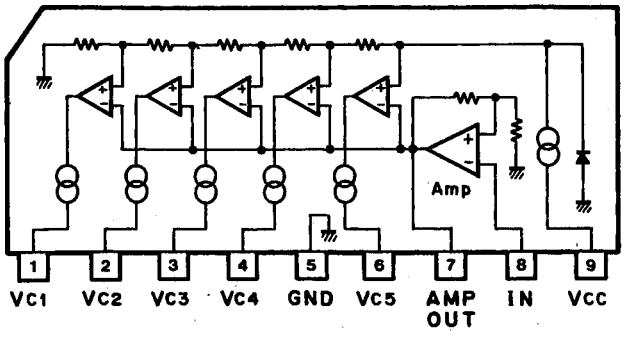
- **MC34051P** (XP094A00)

Dual EIA-422/423 Transceiver



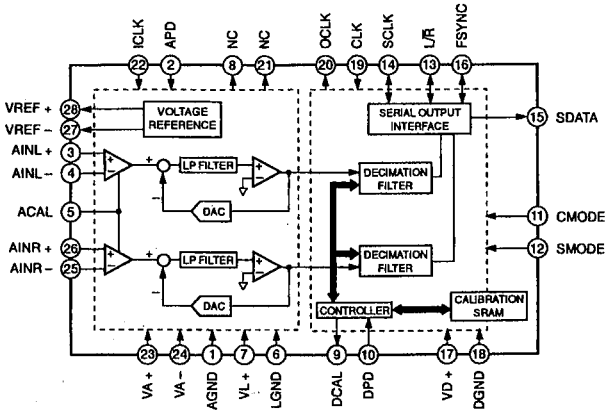
- **LB1443N** (XF483A00)

Level Meter Driver



- **AK5390-VS-E1** (XR380A00)

20 bit 2-Channel A/D Converter

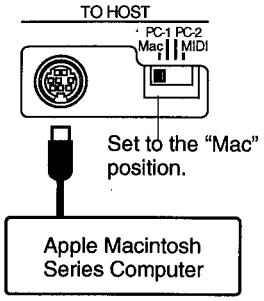


■CONNECTING CABLES

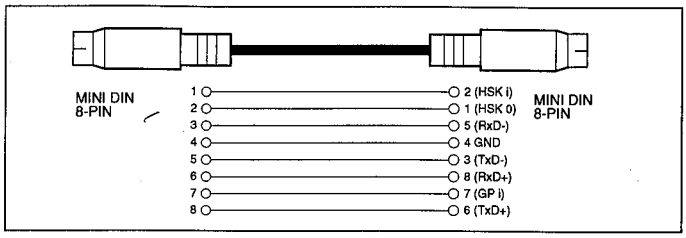
• Connecting to an Apple Macintosh Series Computer

Apple Macintosh Peripheral cable(M0197).Maximum length 2 meters

System Peripheral cable-8(YAMAHA CCJ-MAC)



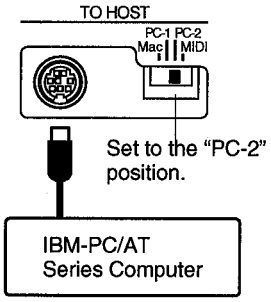
●"Mac" Cable Connections



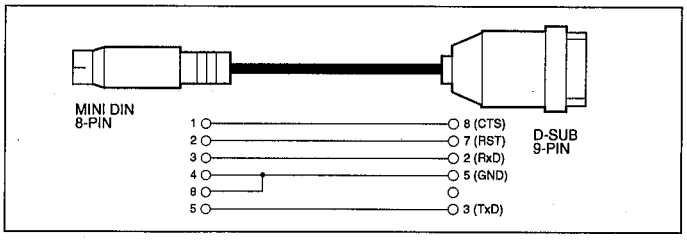
- 8-pin system peripheral cable.
- Data transfer rate: 31,250 bps.

• Connecting to an IBM-PC/AT Series Computer

mini DIN 8-pin → D-SUB 9-pin(YAMAHA CCJ-PC2)

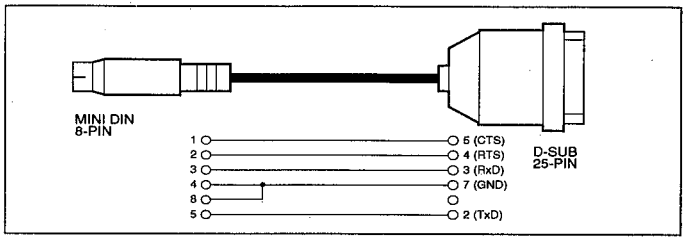


●"PC-2" Cable Connections



- 8-pin mini DIN → 9-pin D-SUB cable. Use a "PC-1" type cable if your computer uses a 25-pin serial port.
- Data transfer rate: 38,400 bps.

●"PC-1" Cable Connections



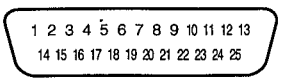
- 8-pin mini DIN → 25-pin D-SUB cable.

Connector Pin Numbers

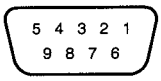
MINI DIN 8-PIN



D-SUB 25-PIN



D-SUB 9-PIN



- *When using the [TO HOST] terminal of the PSR-8000, first turn the power off on both the PSR-8000 and the computer before connecting the cable. After connecting the cable, turn the power of the computer on first, then the PSR-8000.*
- *When not using the [TO HOST] terminal of the PSR-8000, make sure the cable is disconnected from the [TO HOST] terminal. If the cable is left connected, the PSR-8000 may not function properly.*
- *When the HOST SELECT switch is set to "Mac", "PC-1", or "PC-2, no data transfer occurs via the MIDI connectors. To use the MIDI connectors for connection via a standard MIDI interface, set the HOST SELECT switch to "MIDI".*
- *No MIDI or TO HOST transmission or reception occurs in the SAMPLING mode.*
- *If your system doesn't work properly with the connections and settings listed above, your software may require different settings. Check your software operation manual and set the HOST SELECT switch to the position that provides the appropriate data transfer rate.*
- *When using the TO HOST terminal to connect to a personal computer using Windows, a Yamaha MIDI driver must be installed in the personal computer. The Yamaha MIDI driver can be obtained at Yamaha's home page on the World Wide Web, <http://www.yamaha.co.jp/english/xg/>.*

■ TEST PROGRAM

1. Preparation

To check the unit using the test program, the following measuring instruments and jigs will be required:
Measuring instruments and jigs:

Level meter (IHF-C cave)
Frequency counter
Notes: Impedance must be 1M Ω or above.
Use stereo plugs, and connect 33 Ω load at PHONES terminal.
Floppy disks (2HD and 2DD)
Foot controller (FC-7)

Unit setting:

MASTER VOLUME:	Maximum
TRIM VR:	Maximum
MIC INPUT VOLUME:	Maximum
Other terminals:	Not connected

2. How to enter the Test Program

While depressing the [C2#], [F2] and [G2#] keys, turn the power switch ON.

3. Proceeding through the Test Program

The LCD will display "TEST MODE" when entering the test program.
To select the program number, use [TEMPO +/-].
To start the test, press the [START/STOP] or [DEMO/HELP] button.
To return to the test program select status, press the [START/STOP] button.
The LCD will display "OK" when the test result is OK.
When the test result is "NG", return to the test proglam select status; if you are unable to do so, turn the power switch off and re-enter the test program.

Test items

No.	LCD display for each test	Test Functions and Judgment criteria
1	001:Version	Displays version for ROM (MAIN, STYLE, SCAN, INTR, DATA, WAVE).
2	002:ROM Check1	Checks the Program ROM and Data ROM.
3	003:RAM Check1	Checks all RAMs which are connected to CPU.
4	004:Wave ROM Check1	Checks wave ROM.
5	005:Wave RAM Check1	Checks wave RAM
7	007:FDD Check	Checks the floppy disk drive unit. Check two Types FD 2HD and 2DD.
8	008:HD Check	Checks the hard disk .
9	009:Effect1 RAM Check	Checks Reverb effect1 RAM. Check that C3 note is output with Reverb Depth 127 and there is no noise.
10	010:Effect2 RAM Check	Checks Reverb effect2 RAM. Check that C3 note is output with Reverb Depth 127 and there is no noise.
11	011:TG1 Check	Outputs the sine wave by changing the channels (1ch-64ch) in sequence from C1 to C6. When a [VOICE] switch is depressed, the tone of the voice will start to sound. After autoscaling is finished, individual keys can be played. (If playing two or more keys simultaneously, the first depressed key has priority to make sound)
13	013:Pitch Check	Outputs a A3 (440 Hz±3 cent) sine wave signal. Check output level. PHONES L and R:.....-13 dBm±3 dB AUX OUT L/L+R and R: .....-7 dBm±3 dB LOOP SEND L/L+R and R: .....-7 dBm±3 dB Note 1: Confirm that the speaker sound turns OFF when a plug is inserted to PHONES jack. Note 2: L/L+R output level of AUX OUT is measured by inserting a plug inserted to L/L+R jack only. Note 3: Confirm that the output of the speaker and AUX OUT turns OFF when a plug is inserted to LOOP SEND L/L+R.

14	014:Output R	Check output level (1 kHz). AUX OUT L/L+R:.....Less than -60 dBm (-10 dBm±3 dB) AUX OUT R:.....-4 dBm±3 dB When the Rch plug is disconnected, the output level is shown in ( ). PHONES L: .....Less than -55 dBm PHONES R:.....-7 dBm±3 dB LOOP SEND L/L+R:.....Less than -60 dBm LOOP SEND R:.....-4 dBm±3 dB
15	015:Output L	Check output level (1 kHz). AUX OUT L/L+R:.....-4 dBm±3 dB AUX OUT R:.....Less than -60 dBm PHONES L: .....-7 dBm±3 dB PHONES R:.....Less than -55 dBm LOOP SEND L/L+R:.....-4 dBm±3 dB LOOP SEND R:.....Less than -60 dBm
16	016:EQ Low	Confirm that a 40 Hz sine wave is output and the level is -9 dBm±3 dB at PHONES L and R. (Set the PAN control center position.)
17	017:EQ Mid	Confirm that a 1.2 kHz sine wave is output and the level is -11 dBm±3 dB at PHONES L and R. (Set the PAN control center position.)
18	018:EQ High	Confirm that a 11 kHz sine wave is output and the level is -11 dBm±3 dB at PHONES L and R. (Set the PAN control center position.)
19	019:D/A Noise	Check D/A converter noise. Play a note and check that there is no noise during the PIANO 1 release time. (Sustain pedal is ON)
20	020:SW, LED Check	Check switches and LEDs on the panel. Press the switch which is displayed on the LCD. A pre-assigned note is output when depressing the switch. (With some switches, the corresponding LED will light up). Also check the dial by turning it; the LCD displays "OK". The LCD will display the numbers from 5～10 when turning the dial upwards from center and from 5～0 when turning the dial downwards from center.
21	021:All Panel LED On	Check that all panel LEDs are lit.(Except the OVER and SIGNAL of mic Level)
22	022:All Red Panel LED On	Check that all red panel LEDs are lit. (Except the OVER of MIC LEVEL)
23	023:All Green Panel LED On	Check that all green panel LEDs are lit. (Except the SIGNAL of MIC LEVEL)
24	024:All Yellow Panel LED On	Check that all yellow panel LEDs are lit.
28	028:All LCD Dot On	Check that all LCD dots are ON. The LCD display becomes blue.
29	029:All LCD Dot Off	Check that all LCD dots are OFF. The LCD display becomes white.
31	031:Foot Switch1	Check that C3 note is output when the Foot Switch1 is released after pressing, and C4 note is output when pressing again, and the LCD displays "OK".
32	032:Foot Switch2	Check that C3 note is output when the Foot Switch2 is released after pressing, and C4 note is output when pressing again, and the LCD displays "OK".
33	033:Pitch Bend	Check that at minimum position, C3 note is output and the LCD displays 0 and "PB Check Start". Next check that at maximum position, the LCD displays 127 and "OK", and C4 note is output.
34	034:Modulation	Check that at minimum position, C3 note is output and the LCD displays 0 and "Mod Check Start". Next check that at maximum position, the LCD displays 127 and "OK", and C4 note is output.
35	035:EXP Pedal Check	Connect the expression pedal to FOOT PEDAL [VOLUME] terminal. Check that at minimum position, C3 note is output and the LCD displays 0 and "Exp Check Start". Next check that at maximum position, the LCD displays 127 and "OK", and C4 note is output.
36	036:After Touch Check Start	Check that at minimum position, C3 note is output and the LCD displays 0 and "After Touch Check Start". Next check that at maximum position, the LCD displays 127 and "OK", and C4 note is output.

37	037:MIDI Check	After connecting the MIDI IN and MIDI OUT, execute the test. The test result appears on the LCD .
38	038:To Host Check	For factory test use only.
39	039:MIC Check	For factory test use only.
40	040:Battery Check	For factory test use only.
41	041:ROM Check 2	For factory test use only.
42	042:RAM Check 2	For factory test use only.
43	043:Wave ROM Check 2	For factory test use only.
44	044:Wave RAM Check 2	For factory test use only.
46	046:Back Up Check 2	For factory test use only.
47	047:Factory Set	All RAMs are initialized and set to the factory preset data when executing this test.
48	048:Test Mode Exit	Exit from the test program when executing this test.

Note: 0 dBm =0.775 V

■ INSPECTIONS

1. AUX IN and AUX OUT

1-1 Apply a 1 kHz, -15 dBm sine wave to the AUX IN L/L+R and R. Confirm that the output meet the following specifications:

AUX OUT L/L+R ·· -2 dBm±3 dB　　PHONES L ···· -6 dBm±3 dB
AUX OUT R ····· -2 dBm±3 dB　　PHONES R ···· -6 dBm±3 dB

2. MIC input

Apply a 1 kHz, -50 dBm sine wave to the MIC and LINE input. Confirm that the PHONES output L and R meet the following specifications:

	Input level:	PHONES L and R output level:
MIC input	-50 dBm	-14 dBm±3 dB
LINE input	-15 dBm	-25 dBm±3 dB

Note: When it reaches the proper input level, the SIGNAL (Green) LED will light.
: When it reaches the excessive input level, OVER (Red) will light.

3. Noise Level

Confirm that the noise levels meet the following specifications.

PHONES L and R ·····-Less than -75dBm
AUX OUT L/L+R and R ·····-Less than -80dBm
LOOP SEND L/L+R and R ·····-Less than -80dBm

Note: 0 dBm = 0.775 V

MIDI DATA FORMAT

< Table 1-1 > Parmeter Basic Address

	Parameter Change Address (H)	(M)	(L)	Description
SYSTEM	00	00	00	System
	00	00	7D	Drum Setup Reset
	00	00	7E	XG System On
	00	00	7F	All Parameter Reset
INFORMATION	01	00	00	System Information
EFFECT 1	02	01	00	Effect1(Reverb,Chorus,Variation)
MULTI EQ	02	40	00	Multi EQ
EFFECT 2	03	00	00	Effect2 (Insertion Effect 1)
		:		:
	03	03	00	(Insertion Effect 4)
SPECIAL EFFECT	04	00	00	Special Insertion Effect 1
MULTI PART	08	00	00	Multi Part 1
		:		:
	08	0F	00	Multi Part 16
A/D PART	10	00	00	A/D Part 1
DRUM	30	0D	00	Drum Setup 1 ⟶ Address / Parameter
	31	0D	00	Drum Setup 2
				: / :
				3n 0D 00 note number 13
				3n 0E 00 note number 14
				: : : :
				3n 5B 00 note number 91

< Table 1-2 > MIDI Parameter Change table (SYSTEM)

Address (H)			Size (H)	Data (H)	Prameter Name	Description	Default Value(H)
00	00	00	4	0000	Master Tune	-102.4..+102.3[cent]	00 04 00 00
		01		..07FF		1st bit3-0 -> bit15-12	(0400)
		02				2nd bit3-0 -> bit11-8	
		03				3rd bit3-0 -> bit7-4	
						4th bit3-0 -> bit3-0	
		04	1	00..7F	Master Volume	0..127	7F
		05	1		Not Used		
		06	1	28..58	Transpose	-24..+24[semitones]	40
		7D		n	Drum Setup Reset	n=Drum Setup Number	
		7E		00	XG System On	00=XG Sytem on	
		7F		00	All Parameter Reset	00=on (receive only)	
TOTAL SIZE			7				

< Table 1-3 > MIDI Parameter Change table (System information)

Address (H)			Size (H)	Data (H)	Prameter Name	Description
01	00	00	E	20..7F	Model Name 1	32..127(ASCII)
		:		:		
		0D		20..7F	Model Name 14	32..127(ASCII)
		0E	1	00		
		0F	1	00		
TOTAL SIZE			10			

(Transmitted by Dump Request. Not received. Bulk Dump Only)

< Table 1-4 > MIDI Parameter Change table (EFFECT 1)

Address (H)			Size (H)	Data (H)	Prameter Name	Description	Default Value(H)
02	01	00	2	00..7F	Reverb Type MSB	Refer to the Ef. Type List	01 (=HALL1) *1
				00..7F	Reverb Type LSB	00 : basic type	00 *1
		02	1	00..7F	Reverb Parameter 1	Refer to the Ef. Parameter List	Depend on Reverb type
		03	1	00..7F	Reverb Parameter 2	Refer to the Ef. Parameter List	Depend on Reverb type
		04	1	00..7F	Reverb Parameter 3	Refer to the Ef. Parameter List	Depend on Reverb type
		05	1	00..7F	Reverb Parameter 4	Refer to the Ef. Parameter List	Depend on Reverb type
		06	1	00..7F	Reverb Parameter 5	Refer to the Ef. Parameter List	Depend on Reverb type
		07	1	00..7F	Reverb Parameter 6	Refer to the Ef. Parameter List	Depend on Reverb type
		08	1	00..7F	Reverb Parameter 7	Refer to the Ef. Parameter List	Depend on Reverb type
		09	1	00..7F	Reverb Parameter 8	Refer to the Ef. Parameter List	Depend on Reverb type
		0A	1	00..7F	Reverb Parameter 9	Refer to the Ef. Parameter List	Depend on Reverb type
		0B	1	00..7F	Reverb Parameter 10	Refer to the Ef. Parameter List	Depend on Reverb type
		0C	1	00..7F	Reverb Return	-∞..0..+6dB(0..96..127)	40 *2
		0D	1	01..7F	Reverb Pan	L63..C..R63(1..64..127)	40 *2
TOTAL SIZE			0E				

*1 The default Reverb Type is selected when an XG System On message is received. When the power is turned on the Reverb Type will depend on the selected style.
*2 When the power is turned on the value will depend on the selected style.

02	01	10	1	00..7F	Reverb Parameter 11	Refer to the Ef. Parameter List	Depend on Reverb type
		11	1	00..7F	Reverb Parameter 12	Refer to the Ef. Parameter List	Depend on Reverb type
		12	1	00..7F	Reverb Parameter 13	Refer to the Ef. Parameter List	Depend on Reverb type
		13	1	00..7F	Reverb Parameter 14	Refer to the Ef. Parameter List	Depend on Reverb type
		14	1	00..7F	Reverb Parameter 15	Refer to the Ef. Parameter List	Depend on Reverb type
		15	1	00..7F	Reverb Parameter 16	Refer to the Ef. Parameter List	Depend on Reverb type
TOTAL SIZE			6				

02	01	20	2	00..7F	Chorus Type MSB	Refer to the Ef. Type List	41 (=CHORUS1) *3
				00..7F	Chorus Type LSB	00 : basic type	00 *3
		22	1	00..7F	Chorus Parameter 1	Refer to the Ef. Parameter List	Depend on Chorus Type
		23	1	00..7F	Chorus Parameter 2	Refer to the Ef. Parameter List	Depend on Chorus Type
		24	1	00..7F	Chorus Parameter 3	Refer to the Ef. Parameter List	Depend on Chorus Type
		25	1	00..7F	Chorus Parameter 4	Refer to the Ef. Parameter List	Depend on Chorus Type
		26	1	00..7F	Chorus Parameter 5	Refer to the Ef. Parameter List	Depend on Chorus Type
		27	1	00..7F	Chorus Parameter 6	Refer to the Ef. Parameter List	Depend on Chorus Type
		28	1	00..7F	Chorus Parameter 7	Refer to the Ef. Parameter List	Depend on Chorus Type
		29	1	00..7F	Chorus Parameter 8	Refer to the Ef. Parameter List	Depend on Chorus Type
		2A	1	00..7F	Chorus Parameter 9	Refer to the Ef. Parameter List	Depend on Chorus Type
		2B	1	00..7F	Chorus Parameter 10	Refer to the Ef. Parameter List	Depend on Chorus Type
		2C	1	00..7F	Chorus Return	-∞..0..+6dB(0..96..127)	40 *2
		2D	1	01..7F	Chorus Pan	L63..C..R63(1..64..127)	40 *2
		2E	1	00..7F	Send Chorus To Reverb	-∞..0..+6dB(0..96..127)	00 *2
TOTAL SIZE			0F				

*3 The default Chorus Type is selected when an XG System On message is received. When the power is turned on the Chorus Type will depend on the selected style.

02	01	30	1	00..7F	Chorus Parameter 11	Refer to the Ef. Parameter List	Depend on Chorus Type
		31	1	00..7F	Chorus Parameter 12	Refer to the Ef. Parameter List	Depend on Chorus Type
		32	1	00..7F	Chorus Parameter 13	Refer to the Ef. Parameter List	Depend on Chorus Type
		33	1	00..7F	Chorus Parameter 14	Refer to the Ef. Parameter List	Depend on Chorus Type
		34	1	00..7F	Chorus Parameter 15	Refer to the Ef. Parameter List	Depend on Chorus Type
		35	1	00..7F	Chorus Parameter 16	Refer to the Ef. Parameter List	Depend on Chorus Type
TOTAL SIZE			6				

02	01	40	2	00..7F	Variation Type MSB	Refer to the Ef. Type List	05 (=DELAY L,C,R) *4
				00..7F	Variation Type LSB	00 : basic type	00 *4
		42	2	00..7F	Vari. Param. 1 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 1 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		44	2	00..7F	Vari. Param. 2 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 2 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		46	2	00..7F	Vari. Param. 3 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 3 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		48	2	00..7F	Vari. Param. 4 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 4 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		4A	2	00..7F	Vari. Param. 5 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 5 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		4C	2	00..7F	Vari. Param. 6 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 6 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		4E	2	00..7F	Vari. Param. 7 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 7 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		50	2	00..7F	Vari. Param. 8 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 8 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		52	2	00..7F	Vari. Param. 9 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 9 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		54	2	00..7F	Vari. Param. 10 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 10 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		56	1	00..7F	Variation Return	-∞..0..+6dB(0..96..127)	40 *2
		57	1	01..7F	Variation Pan	L63..C..R63(1..64..127)	40 *2

Address (H)			Size (H)	Data (H)	Prameter Name	Description	Default Value(H)
		58	1	00..7F	Send Vari. To Reverb	-∞..0..+6dB(0..96..127)	00 *2
		59	1	00..7F	Send Vari. To Chorus	-∞..0..+6dB(0..96..127)	00 *2
		5A	1	00..01	Variation Connection	0:insertion,1:system	00 *2
		5B	1	00..1F	Variation Part	Part1..16(0..15) AD1(64) OFF(16..63, 65..127)	7F *2
		5C	1	01..7F	MW Vari. Ctrl Depth	-63..+63	40
		5D	1	01..7F	PB Vari. Ctrl Depth	-63..+63	40
		5E	1	01..7F	CAT Vari. Ctrl Depth	-63..+63	40
		5F	1		Not Used		
		60	1		Not Used		
TOTAL SIZE			21				

*4 The default Variation Type is selected when an XG System On message is received. When the power is turned on the Variation Type will depend on the selected style.

02	01	70	1	00..7F	Variation Parameter 11	option Parameter	Depend on Variation Type
		71	1	00..7F	Variation Parameter 12	option Parameter	Depend on Variation Type
		72	1	00..7F	Variation Parameter 13	option Parameter	Depend on Variation Type
		73	1	00..7F	Variation Parameter 14	option Parameter	Depend on Variation Type
		74	1	00..7F	Variation Parameter 15	option Parameter	Depend on Variation Type
		75	1	00..7F	Variation Parameter 16	option Parameter	Depend on Variation Type
TOTAL SIZE			6				

< Table 1-5 > MIDI Parameter Change table (MULTI EQ)

Address (H)			Size (H)	Data (H)	Prameter Name	Description	Default Value(H)
02	40	00	1	34..4C	EQ Type	0:FLAT 1:JAZZ 2:POPS 3:ROCK 4:CLASSIC	0 *5
		01	1	34..4C	EQ Gain1	-12..+12[dB]	40
		02	1	04..28	EQ Frequency1	32..2000[Hz]	0C
		03	1	01..78	EQ Q1	0.1..12.0	07
		04	1	00..01	EQ Shape1	00:Shelving,01:Peaking	00
		05	1	34..4C	EQ Gain2	-12..+12[dB]	40
		06	1	0E..36	EQ Frequency2	0.1..10[KHz]	1C
		07	1	01..78	EQ Q2	0.1..12.0	07
		08	1		Not Used		
		09	1	34..4C	EQ Gain3	-12..+12[dB]	40
		0A	1	0E..36	EQ Frequency3	0.1..10[KHz]	22
		0B	1	01..78	EQ Q3	0.1..12.0	07
		0C	1		Not Used		
		0D	1	34..4C	EQ Gain4	-12..+12[dB]	40
		0E	1	0E..36	EQ Frequency4	0.1..10[KHz]	2E
		0F	1	01..78	EQ Q4	0.1..12.0	07
		10	1		Not Used		
		11	1	34..4C	EQ Gain5	-12..+12[dB]	40
		12	1	1C..3A	EQ Frequency5	0.5..16.0[KHz]	3C
		13	1	01..78	EQ Q5	0.1..12.0	07
		14	1	00..01	EQ Shape5	00:Shelving,01:Peaking	00
TOTAL SIZE			15				

*5 When the power is turned on the default is Preset 1 in the Full Mixing Console Master EQ display.

< Table 1-6 > MIDI Parameter Change table (EFFECT2)

Address (H)			Size (H)	Data (H)	Prameter Name	Description
03	0n	00	2	00..7F	Insertion Type MSB	Refer to the Ef. Type List
				00..7F	Insertion Type LSB	
		02	1	00..7F	Insertion Parameter1	Refer to the Ef. Parameter List
		03	1	00..7F	Insertion Parameter2	Refer to the Ef. Parameter List
		04	1	00..7F	Insertion Parameter3	Refer to the Ef. Parameter List
		05	1	00..7F	Insertion Parameter4	Refer to the Ef. Parameter List
		06	1	00..7F	Insertion Parameter5	Refer to the Ef. Parameter List
		07	1	00..7F	Insertion Parameter6	Refer to the Ef. Parameter List
		08	1	00..7F	Insertion Parameter7	Refer to the Ef. Parameter List
		09	1	00..7F	Insertion Parameter8	Refer to the Ef. Parameter List
		0A	1	00..7F	Insertion Parameter9	Refer to the Ef. Parameter List
		0B	1	00..7F	Insertion Parameter10	Refer to the Ef. Parameter List
		0C	1	00..7F	Insertion Part	Part1..16(0..15) AD1(64) OFF(16..63, 65..127)
		0D	1	00..7F	MW INS CTRL DPT	
		0E	1	00..7F	BEND INS CTRL DPT	
		0F	1	00..7F	CAT INS CTRL DPT	
		10	1	00..7F	Not Used	
		11	1	00..7F	Not Used	
TOTAL SIZE			12			

Address (H)			Size (H)	Data (H)	Prameter Name	Description
03	0n	20	1	00..7F	Insertion Parameter11	Refer to the Ef. Parameter List
		21	1	00..7F	Insertion Parameter12	Refer to the Ef. Parameter List
		22	1	00..7F	Insertion Parameter13	Refer to the Ef. Parameter List
		23	1	00..7F	Insertion Parameter14	Refer to the Ef. Parameter List
		24	1	00..7F	Insertion Parameter15	Refer to the Ef. Parameter List
		25	1	00..7F	Insertion Parameter16	Refer to the Ef. Parameter List
TOTAL SIZE			06			
03	0n	30	2	00..7F	Ins. Param.1 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.1 LSB	Refer to the Ef. Parameter List
03	0n	32	2	00..7F	Ins. Param.2 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.2 LSB	Refer to the Ef. Parameter List
03	0n	34	2	00..7F	Ins. Param.3 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.3 LSB	Refer to the Ef. Parameter List
03	0n	36	2	00..7F	Ins. Param.4 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.4 LSB	Refer to the Ef. Parameter List
03	0n	38	2	00..7F	Ins. Param.5 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.5 LSB	Refer to the Ef. Parameter List
03	0n	3A	2	00..7F	Ins. Param.6 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.6 LSB	Refer to the Ef. Parameter List
03	0n	3C	2	00..7F	Ins. Param.7 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.7 LSB	Refer to the Ef. Parameter List
03	0n	3E	2	00..7F	Ins. Param.8 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.8 LSB	Refer to the Ef. Parameter List
03	0n	40	2	00..7F	Ins. Param.9 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.9 LSB	Refer to the Ef. Parameter List
03	0n	42	2	00..7F	Ins. Param.10 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.10 LSB	Refer to the Ef. Parameter List
TOTAL SIZE			14			

For effect types that do not require MSB, the Parameters for Address 02-0B will be received. Address 30-42 will not be received.
For effect types that require MSB, the Parameters for Address 30-42 will be received. Address 02-0B will not be received.
When Bulk Dumps that include Effect Type data are transmitted, the Parameters for Address 02 - 0B will always be transmitted. But, effects that require MSB, when the bulk dump is received the Parameters for Address 02 - 0B will not be received.
n=Insertion Effect No.(0-3)

< Table 1-7 > MIDI Parameter Change table (SPECIAL EFFECT)

Address (H)			Size (H)	Data (H)	Parameter	Description	Default Value(H)
04	00	00	2	00 - 7F	Unique Insertion Effect Type MSB	Refer to the XG Effect Map	90(=Chordal)
				00 - 7F	Unique Insertion Effect Type LSB		23(=MenChoir)
		02	1	00 - 7F	Unique Insertion Effect Parameter1	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		03	1	00 - 7F	Unique Insertion Effect Parameter2	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		04	1	00 - 7F	Unique Insertion Effect Parameter3	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		05	1	00 - 7F	Unique Insertion Effect Parameter4	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		06	1	00 - 7F	Unique Insertion Effect Parameter5	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		07	1	00 - 7F	Unique Insertion Effect Parameter6	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		08	1	00 - 7F	Unique Insertion Effect Parameter7	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		09	1	00 - 7F	Unique Insertion Effect Parameter8	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		0A	1	00 - 7F	Unique Insertion Effect Parameter9	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		0B	1	00 - 7F	Unique Insertion Effect Parameter10	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		0C	1	00 - 7F	Unique Insertion Effect Part	AD1(64) OFF(0...63, 65...127)	AD1(64)
		0D	1	00 - 7F	Not Used		
		:			:		
		11	1	00 - 7F	Not Used		
TOTAL SIZE			12				
04	00	14	1	00 - 7F	Unique Insertion Effect External Control Ch1(Harmony Channel)	1...16(0...15), off(127)	127
		15	1	00 - 7F	Unique Insertion Effect External Control Ch2(Melody Channel)	1...16(0...15), off(127)	127
TOTAL SIZE			2				
04	00	20	1	00 - 7F	Unique Insertion Effect Parameter11	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		21	1	00 - 7F	Unique Insertion Effect Parameter12	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		22	1	00 - 7F	Unique Insertion Effect Parameter13	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		23	1	00 - 7F	Unique Insertion Effect Parameter14	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		24	1	00 - 7F	Unique Insertion Effect Parameter15	Refer to the XG Effect Parameter List	Depends on insertion 1 type
		25	1	00 - 7F	Unique Insertion Effect Parameter16	Refer to the XG Effect Parameter List	Depends on insertion 1 type
TOTAL SIZE			6				

< Table 1-8 > MIDI Parameter Change table (MULTI PART)

Address (H)			Size (H)	Data (H)	Prameter Name	Description	Default Value(H)
08	nn	00	1	00..20	Element Reserve	0..32	0(Part10),2(Others)
	nn	01	1	00..7F	Bank Select MSB	0..127	7F(Part10),00(Others)
	nn	02	1	00..7F	Bank Select LSB	0..127	00

Address (H)		Size (H)	Data (H)	Parameter	Description	Default Value(H)
nn	03	1	00..7F	Program Number	1..128	00
nn	04	1	00..0F, 7F	Rcv Channel	A1..A16, OFF	Part No.
nn	05	1	00..01	Mono/Poly Mode	0:mono,1:poly	01
nn	06	1	00..02	Same Note Number Key On Assign	0:single 1:multi 2:inst (for DRUM)	00
nn	07	1	00..02	Part Mode	0:normal 1:drum, 2..3:drumS1..2	00 (Except Part10) 01 (Part10)
nn	08	1	28..58	Note Shift	-24..+24[semitones]	40
nn	09	2	00..FF	Detune	-12.8..+12.7[Hz]	08 00
nn	0A				1st bit3..0 -> bit7..4 2nd bit3..0 -> bit3..0	(80)
nn	0B	1	00..7F	Volume	0..127	64
nn	0C	1	00..7F	Velocity Sense Depth	0..127	40
nn	0D	1	00..7F	Velocity Sense Offset	0..127	40
nn	0E	1	00..7F	Pan	0:random L63..C..R63(1..64..127)	40
nn	0F	1	00..7F	Note Limit Low	C-2..G8	00
nn	10	1	00..7F	Note Limit High	C-2..G8	7F
nn	11	1	00..7F	Dry Level	0..127	7F
nn	12	1	00..7F	Chorus Send	0..127	00
nn	13	1	00..7F	Reverb Send	0..127	28
nn	14	1	00..7F	Variation Send	0..127	00
nn	15	1	00..7F	Vibrato Rate	-64..+63	40
nn	16	1	00..7F	Vibrato Depth	-64..+63	40
nn	17	1	00..7F	Vibrato Delay	-64..+63	40
nn	18	1	00..7F	Filter Cutoff Freq.	-64..+63	40
nn	19	1	00..7F	Filter Resonance	-64..+63	40
nn	1A	1	00..7F	EG Attack Time	-64..+63	40
nn	1B	1	00..7F	EG Decay Time	-64..+63	40
nn	1C	1	00..7F	EG Release Time	-64..+63	40
nn	1D	1	28..58	MW Pitch Control	-24..+24[semitones]	40
nn	1E	1	00..7F	MW Filter Control	-9600..+9450[cent]	40
nn	1F	1	00..7F	MW Amp. Control	-100..+100[%]	40
nn	20	1	00..7F	MW LFO PMod Depth	0..127	0A
nn	21	1	00..7F	MW LFO FMod Depth	0..127	00
nn	22	1	00..7F	MW LFO AMod Depth	0..127	00
nn	23	1	28..58	Bend Pitch Control	-24..+24[semitones]	42
nn	24	1	00..7F	Bend Filter Control	-9600..+9450[cent]	40
nn	25	1	00..7F	Bend Amp. Control	-100..+100[%]	40
nn	26	1	00..7F	Bend LFO PMod Depth	0..127	00
nn	27	1	00..7F	Bend LFO FMod Depth	0..127	00
nn	28	1	00..7F	Bend LFO AMod Depth	0..127	00
TOTAL SIZE		29				
nn	30	1		Not Used		
	:	:		:		
nn	34	1		Not Used		
nn	35	1	00..01	Rcv Note Message	OFF, ON	01
nn	36	1		Not Used		
	:	:		:		
nn	40	1		Not Used		
nn	41	1	00..7F	Scale Tuning C	-64..+63[cent]	40
nn	42	1	00..7F	Scale Tuning C#	-64..+63[cent]	40
nn	43	1	00..7F	Scale Tuning D	-64..+63[cent]	40
nn	44	1	00..7F	Scale Tuning D#	-64..+63[cent]	40
nn	45	1	00..7F	Scale Tuning E	-64..+63[cent]	40
nn	46	1	00..7F	Scale Tuning F	-64..+63[cent]	40
nn	47	1	00..7F	Scale Tuning F#	-64..+63[cent]	40
nn	48	1	00..7F	Scale Tuning G	-64..+63[cent]	40
nn	49	1	00..7F	Scale Tuning G#	-64..+63[cent]	40
nn	4A	1	00..7F	Scale Tuning A	-64..+63[cent]	40
nn	4B	1	00..7F	Scale Tuning A#	-64..+63[cent]	40
nn	4C	1	00..7F	Scale Tuning B	-64..+63[cent]	40
nn	4D	1	28..58	CAT Pitch Control	-24..+24[semitones]	40
nn	4E	1	00..7F	CAT Filter Control	-9600..+9450[cent]	40
nn	4F	1	00..7F	CAT Amplitude Control	-100..+100[%]	40
nn	50	1	00..7F	CAT LFO PMod Depth	0..127	00
nn	51	1	00..7F	CAT LFO FMod Depth	0..127	00
nn	52	1	00..7F	CAT LFO AMod Depth	0..127	00
nn	53	1		Not Used		
	:	:		:		
nn	66	1		Not Used		
nn	67	1	00..01	Portamento Switch	off/on	00
nn	68	1	00..7F	Portamento Time	0..127	00
nn	69	1		Not Used		
	:	:		:		
nn	6E	1		Not Used		
TOTAL SIZE		3F				

Address (H)			Size (H)	Data (H)	Parameter	Description	
08	nn	70	1		Not Used		
	nn	71	1		Not Used		
	nn	72	1	00..7F	EQ BASS	-64..+63(-12..+12[dB])	40
	nn	73	1	00..7F	EQ TREBLE	-64..+63(-12..+12[dB])	40
TOTAL SIZE			04				
08	nn	74	1		Not Used		
		75	1		Not Used		
	nn	76	1	04..28	EQ BASS frequency	32..2.0k[Hz]	0C
		77	1	1C..3A	EQ TREBLE frequency	500..16.0k[Hz]	36
		78	1		Not Used		
		:	:		:		
		7F	1		Not Used		
TOTAL SIZE			0C				

nn = PartNumber(00..0F)

If there is a Drum Voice assigned to the Part, the following parameters are ineffective.

- Bank Select LSB
- Pitch EG
- Portamento
- Soft Pedal
- Mono/Poly
- Scale Tuning

<Table 1-9> MIDI Parameter Change table (A/D PART)

Address (H)			Size (H)	Data (H)	Parameter	Description
10	nn	0	1		Not Used	
		:	:		:	
		3	1		Not Used	
10	nn	4	1	00..1F, 7F	Rcv CHANNEL	A1..A16,OFF
		5	1		Not Used	
		:	:		:	
		0A	1		Not Used	
		0B	1	00..7F	VOLUME	0..127
		0C	1		Not Used	
		0D	1		Not Used	
		0E	1	01..7F	PAN	L63..C..R63(1..64..127)
		0F	1		Not Used	
		10	1		Not Used	
		11	1	00..7F	DRY LEVEL	0..127
		12	1	00..7F	CHORUS SEND	0..127
		13	1	00..7F	REVERB SEND	0..127
		14	1	00..7F	VARIATION SEND	0..127
TOTAL SIZE			15			

nn:A/D Part number(fixed 00)

< Table 1-10 > MIDI Parameter Change table (DRUM SETUP)

Address (H)			Size (H)	Data (H)	Prameter Name	Description	Default Value(H)
3n	rr	00	1	00..7F	Pitch Coarse	-64..+63	40
3n	rr	01	1	00..7F	Pitch Fine	-64..+63[cent]	40
3n	rr	02	1	00..7F	Level	0..127	Depend on the Note
3n	rr	03	1	00..7F	Alternate Group	0:off,1..127	Depend on the Note
3n	rr	04	1	00..7F	Pan	0:random L63..C..R63(1..64..127)	Depend on the Note
3n	rr	05	1	00..7F	Reverb Send Level	0..127	Depend on the Note
3n	rr	06	1	00..7F	Chorus Send Level	0..127	Depend on the Note
3n	rr	07	1	00..7F	Variation Send Level	0..127	7F
3n	rr	08	1	00..01	Key Assign	0:single,1:multi	00
3n	rr	09	1	00..01	Rcv Note Off	off/on	Depend on the Note
3n	rr	0A	1	00..01	Rcv Note On	off/on	01
3n	rr	0B	1	00..7F	Filter Cutoff Freq.	-64..63	40
3n	rr	0C	1	00..7F	Filter Resonance	-64..63	40
3n	rr	0D	1	00..7F	EG Attack Rate	-64..63	40
3n	rr	0E	1	00..7F	EG Decay1 Rate	-64..63	40
3n	rr	0F	1	00..7F	EG Decay2 Rate	-64..63	40
TOTAL SIZE			10				

n:Drum Setup Number(0 - 1)
rr:note number(0DH - 5BH)
If XG SYSTEM ON and/or GM On message is received, all Drum Setup Parameter will be reset to default values.
According to the Drum Setup Reset message, individual Drum Setup Parameters can be reset to default values.

< Table 1-11 > Effect Type List

XG ESSENTIAL EFFECT(XG required)
Same as LSB=0
XG OPTION EFFECT
PSR8000 Original EFFECT

* If the received value does not contain an effect type in the TYPE LSB, the LSB will be directed to TYPE 0.
* ( ) is the panel effect name.

REVERB TYPE

TYPE MSB		TYPE LSB									
DEC	HEX	00	01	02	03 ... 07	08	09 ... 15	16	17	18	19	20
000	0	NO EFFECT										
001	1	HALL1(Hall1)	HALL2(Hall5)					(Hall2)	(Hall3)	(Hall4)		
002	2	ROOM1(Room5)	ROOM2(Room6)	ROOM3(Room7)				(Room1)	(Room2)	(Room3)	(Room4)	
003	3	STAGE1(Stage3)	STAGE2(Stage4)					(Stage1)	(Stage2)			
004	4	PLATE(Plate3)						(Plate1)	(Plate2)			
005	5	NO EFFECT										
:	:	:										
015	F	NO EFFECT										
016	10	WHITE ROOM(WhiteRoom)										
017	11	TUNNEL(Tunnel)										
018	12	CANYON(Canyon)										
019	13	BASEMENT(Basement)										
020	14	NO EFFECT										
:	:	:										
127	7F	NO EFFECT										

CHORUS TYPE

TYPE MSB		TYPE LSB									
DEC	HEX	00	01	02	03 ... 07	08	09 ... 15	16	17	18	19	20
000	0	NO EFFECT										
001	1	NO EFFECT										
:	:	:										
064	40	NO EFFECT										
065	41	CHORUS1(Chorus6)	CHORUS2(Chorus7)	CHORUS3(Chorus5)		CHORUS4(Chorus8)						
066	42	CELESTE1(Celeste1)	CELESTE2(Chorus4)	CELESTE3(Celeste2)		CELESTE4(Chorus2)		(Chorus3)	(Chorus1)			
067	43	FLANGER 1(Flanger5)	FLANGER 2(Flanger4)			FLANGER 3(Flanger1)		(Flanger2)	(Flanger3)			
068	44	SYMPHONIC(Symphonic2)						(Symphonic1)				
069	45	NO EFFECT										
:	:	:										
071	47	NO EFFECT										
072	48	PHASER 1(Phaser)										
073	49	NO EFFECT										
:	:	:										
086	56	NO EFFECT										
087	57	ENSEMBLE DETUNE(Ensemble)										
088	58	NO EFFECT										
:	:	:										
127	7F	NO EFFECT										

VARIATION TYPE(0~63)

TYPE MSB		TYPE LSB									
DEC	HEX	00	01	02	03 ... 07	08	09 ... 15	16	17	18	19	20
000	0	NO EFFECT										
001	1	HALL1(Hall1)	HALL2(Hall5)					(Hall2)	(Hall3)	(Hall4)		
002	2	ROOM1(Room5)	ROOM2(Room6)	ROOM3(Room7)				(Room1)	(Room2)	(Room3)	(Room4)	
003	3	STAGE1(Stage3)	STAGE2(Stage4)					(Stage1)	(Stage2)			
004	4	PLATE(Plate3)						(Plate1)	(Plate2)			
005	5	DELAY L,C,R(DelayLCR2)						(DelayLCR1)	(DelayLCR@T)			
006	6	DELAY L,R(DelayLR)						(DelayLR@T)				
007	7	ECHO(Echo)						(Echo@T)				
008	8	CROSS DELAY(CrossDelay)						(CrossDly@T)				
009	9	ER1(ER1)	ER2(ER2)									
010	A	GATE REVERB(GateReverb)										
011	B	REVERS GATE(ReverseGate)										
012	C	NO EFFECT or THRU*										
:	:	:										
015	F	NO EFFECT or THRU										
016	10	WHITE ROOM(WhiteRoom)										
017	11	TUNNEL(Tunnel)										
018	12	CANYON(Canyon)										
019	13	BASEMENT(Basement)										
020	14	KARAOKE 1(Karaoke1)	KARAOKE 2(Karaoke2)	KARAOKE 3(Karaoke3)								
021	15	NO EFFECT or THRU										
:	:	:										
063	3F	NO EFFECT or THRU*										

*No effect when the effect connection is "system"; thru when "insertion".

VARIATION TYPE(64~127)

TYPE MSB		TYPE LSB										
DEC	HEX	00	01	02	03 ... 07	08	09 ... 15	16	17	18	19	20
064	40	THRU										
065	41	CHORUS1(Chorus6)	CHORUS2(Chorus7)	CHORUS3(Chorus5)		CHORUS4(Chorus8)						
066	42	CELESTE1(Celeste1)	CELESTE2(Chorus4)	CELESTE3(Celeste2)		CELESTE4(Chorus2)		(Chorus3)	(Chorus1)	(RotarySp5)		
067	43	FLANGER 1(Flanger5)	FLANGER 2(Flanger4)			FLANGER 3(Flanger1)		(Flanger2)	(Flanger3)			
068	44	SYMPHONIC(Symphonic2)						(Symphonic1)				
069	45	ROTARY SP.(RotarySp6)						(RotarySp1)				
070	46	TREMOLO(Tremolo3)						(Tremolo1)	(RotarySp4)			
071	47	AUTO PAN(AutoPan2)						(AutoPan1)	(RotarySp2)	(RotarySp3)	(Tremolo2)	(GtrTremolo)
072	48	PHASER 1(Phaser1)				PHASER 2(Phaser2)						
073	49	DISTORTION(DistHvy)	COMP+DISTORTION (Comp+Dist)									
074	4A	OVER DRIVE(OverDrive)										
075	4B	AMP SIM.(AmpSim)						(DistHard)	(DistSoft)			
076	4C	3BAND EQ(3BandEQ)						(EQDisco)	(EQTel)			
077	4D	2BAND EQ(2BandEQ)										
078	4E	AUTO WAH(AutoWah2)	AUTO WAH+DIST (AWah+Dist)	AUTO WAH+OVERDRIVE (AWah+OD)				(AutoWah1)				
079	4F	THRU										
080	50	PITCH CHANGER(PitchChg1)	PITCH CHANGER2 (PitchChg2)									
081	51	THRU										
082	52	TOUCH WAH 1(TouchWah1)	TOUCH WAH+DIST (TcWah+Dist)	TOUCH WAH+OVERDRIVE (TcWah+OD)		TOUCH WAH 2 (TouchWah2)						
083	53	COMPRESSOR(Compressor)										
084	54	NOISE GATE(NoiseGate)										
085	55	VOICE CANCEL(VoiceCancel)										
086	56	2WAY ROTARY SP(2WayRotSp)										
087	57	ENSEMBLE DETUNE(EnsDetune)										
088	58	AMBIENCE(Ambience)										
089	59	THRU										
:	:	:										
127	7F	THRU										

INSERTION TYPE

TYPE MSB		TYPE LSB										
DEC	HEX	00	01	02	03 ... 07	08	09 ... 15	16	17	18	19	20
000	0	THRU										
001	1	HALL1(Hall1)	HALL2(Hall5)					(Hall2)	(Hall3)	(Hall4)		
002	2	ROOM1(Room5)	ROOM2(Room6)	ROOM3(Room7)				(Room1)	(Room2)	(Room3)	(Room4)	
003	3	STAGE1(Stage3)	STAGE2(Stage4)					(Stage1)	(Stage2)			
004	4	PLATE(Plate3)						(Plate1)	(Plate2)			
005	5	DELAY L,C,R(DelayLCR2)						(DelayLCR1)	(DelayLCR@T)			
006	6	DELAY L,R(DelayLR)						(DelayLR@T)				
007	7	ECHO(Echo)						(Echo@T)				
008	8	CROSS DELAY(CrossDelay)						(CrossDly@T)				
009	9	THRU										
:	:	:										
019	13	THRU										
020	14	KARAOKE 1(Karaoke1)	KARAOKE 2(Karaoke2)	KARAOKE 3(Karaoke3)								
021	15	THRU										
:	:	:										
063	3F	THRU										
064	40	THRU										
065	41	CHORUS1(Chorus6)	CHORUS2(Chorus7)	CHORUS3(Chorus5)		CHORUS4(Chorus8)						
066	42	CELESTE1(Celeste1)	CELESTE2(Chorus4)	CELESTE3(Celeste2)		CELESTE4(Chorus2)		(Chorus3)	(Chorus1)	(RotarySp5)		
067	43	FLANGER 1(Flanger5)	FLANGER 2(Flanger4)			FLANGER 3(Flanger1)		(Flanger2)	(Flanger3)			
068	44	SYMPHONIC(Symphonic2)						(Symphonic1)				
069	45	ROTARY SP.(RotarySp6)						(RotarySp1)				
070	46	TREMOLO(Tremolo3)						(Tremolo1)	(RotarySp4)			
071	47	AUTO PAN(AutoPan2)						(AutoPan1)	(RotarySp2)	(RotarySp3)	(Tremolo2)	(GtrTremolo)
072	48	PHASER 1(Phaser1)										
073	49	DISTORTION(DistHvy)	COMP+DISTORTION (Comp+Dist)									
074	4A	OVER DRIVE(OverDrive)										
075	4B	AMP SIM.(AmpSim)						(DistHard)	(DistSoft)			
076	4C	3BAND EQ(3BandEQ)						(EQDisco)	(EQTel)			
077	4D	2BAND EQ(2BandEQ)										
078	4E	AUTO WAH(AutoWah2)	AUTO WAH+DIST (AWah+Dist)	AUTO WAH+OVERDRIVE (AWah+OD)				(AutoWah1)				
079	4F	THRU										
080	50	THRU										
081	51	THRU										
082	52	TOUCH WAH 1(TouchWah1)	TOUCH WAH+DIST (TcWah+Dist)	TOUCH WAH+OVERDRIVE (TcWah+OD)		TOUCH WAH 2 (TouchWah2)						
083	53	COMPRESSOR(Compressor)										
084	54	NOISE GATE(NoiseGate)										
085	55	THRU										
086	56	THRU										
087	57	ENSEMBLE DETUNE(EnsDetune)										
088	58	THRU										
:	:	:										
127	7F	THRU										

< Table 1-12 > Effect Parameter List

* Effect names in all caps are XG effects. Effect names in square brackets are panel effects.
* Parameter 10 Dry/wet only affects insertion type effects.

HALL1,HALL2, ROOM1,ROOM2,ROOM3, STAGE1,STAGE2, PLATE (reverb, variation, insertion block)
[Hall1..5, Room1..7, Stage1..4, Plate 1..3(Reverb,DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3~30.0s	0-69	table#4	
2	Diffusion	0~10	0-10		
3	Initial Delay	0.1mS~99.3mS	0-63	table#5	
4	HPF Cutoff	Thru~8.0kHz	0-52	table#3	
5	LPF Cutoff	1.0k~Thru	34-60	table#3	
6					
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11	Rev Delay	0.1mS~99.3mS	0-63	table#5	
12	Density	0~4 (reverb, variation block)	0-4		
		0~2 (insertion block)	0-2		
13	Er/Rev Balance	E63>R ~ E=R ~ E<R63	1-127		
14	High Damp	0.1~1.0	1-10		
15	Feedback Level	-63~+63	1-127		
16					

WHITE ROOM, TUNNEL, CANYON, BASEMENT (reverb, variation block)
[WhiteRoom, Tunnel, Canyon, Basement (Reverb,DSP3)]

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3~30.0s	0-69	table#4	
2	Diffusion	0~10	0-10		
3	Initial Delay	0.1mS~99.3mS	0-63	table#5	
4	HPF Cutoff	Thru~8.0kHz	0-52	table#3	
5	LPF Cutoff	1.0k~Thru	34-60	table#3	
6	Width	0.5~10.2m	0-37	table#11	
7	Heigt	0.5~20.2m	0-73	table#11	
8	Depth	0.5~30.2m	0-104	table#11	
9	Wall Vary	0~30	0-30		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11	Rev Delay	0.1mS~99.3mS	0-63	table#5	
12	Density	0~4	0-4		
13	Er/Rev Balance	E63>R ~ E=R ~ E<R63	1-127		
14	High Damp	0.1~1.0	1-10		
15	Feedback Level	-63~+63	1-127		
16					

DELAY L,C,R (variation, insertion block)
[DelayLCR1..2 (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1~715.0ms (variation block)	1-7150		
		0.1~715.0ms (Insertion block)	1-7150		
2	Rch Delay	0.1~715.0ms (variation block)	1-7150		
		0.1~715.0ms (Insertion block)	1-7150		
3	Cch Delay	0.1~715.0ms (variation block)	1-7150		
		0.1~715.0ms (Insertion block)	1-7150		
4	Feedback Delay	0.1~715.0ms (variation block)	1-7150		
		0.1~715.0ms (Insertion block)	1-7150		
5	Feedback Level	-63~+63	1-127		
6	Cch Level	0~127	0-127		
7	High Damp	0.1~1.0	1-10		
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
14	EQ Low Gain	-12~+12dB	52-76		
15	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
16	EQ High Gain	-12~+12dB	52-76		

DELAY L,R (variation, insertion block)
[DelayLR (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1~715.0ms (variation block)	1-7150		
		0.1~715.0ms (Insertion block)	1-7150		
2	Rch Delay	0.1~715.0ms (variation block)	1-7150		
		0.1~715.0ms (Insertion block)	1-7150		
3	Feedback Delay 1	0.1~715.0ms (variation block)	1-7150		
		0.1~715.0ms (Insertion block)	1-7150		
4	Feedback Delay 2	0.1~715.0ms (variation block)	1-7150		
		0.1~715.0ms (Insertion block)	1-7150		
5	Feedback Level	-63~+63	1-127		
6	High Damp	0.1~1.0	1-10		
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
14	EQ Low Gain	-12~+12dB	52-76		
15	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
16	EQ High Gain	-12~+12dB	52-76		

ECHO (variation, insertion block)
[Echo (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay1	0.1~355.0ms (variation block)	1-3550		
		0.1~355.0ms (insertion block)	1-3550		
2	Lch Feedback Level	-63~+63	1-127		
3	Rch Delay1	0.1~355.0ms (variation block)	1-3550		
		0.1~355.0ms (insertion block)	1-3550		
4	Rch Feedback Level	-63~+63	1-127		
5	High Damp	0.1~1.0	1-10		
6	Lch Delay2	0.1~355.0ms (variation block)	1-3550		
		0.1~355.0ms (insertion block)	1-3550		
7	Rch Delay2	0.1~355.0ms (variation block)	1-3550		
		0.1~355.0ms (insertion block)	1-3550		
8	Delay2 Level	0~127	0-127		
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
14	EQ Low Gain	-12~+12dB	52-76		
15	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
16	EQ High Gain	-12~+12dB	52-76		

CROSS DELAY (variation, insertion block)
[CrossDelay (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	L->R Delay	0.1~355.0ms (variation block)	1-3550		
		0.1~355.0ms (insertion block)	1-3550		
2	R->L Delay	0.1~355.0ms (variation block)	1-3550		
		0.1~355.0ms (insertion block)	1-3550		
3	Feedback Level	-63~+63	1-127		
4	Input Select	L,R,L&R	0-2		
5	High Damp	0.1~1.0	1-10		
6					
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
14	EQ Low Gain	-12~+12dB	52-76		
15	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
16	EQ High Gain	-12~+12dB	52-76		

EARLY REF1,EARLY REF2(variation block)
[ER1..2(DSP3)]

No.	Parameter	Display	Value	See Table	Control
1	Type	S-H, L-H, Rdm, Rvs, Plt, Spr	0-5		
2	Room Size	0.1~7.0	0-44	table#6	
3	Diffusion	0~10	0-10		
4	Initial Delay	0.1mS~99.3mS	0-63	table#5	
5	Feedback Level	-63~+63	1-127		
6	HPF Cutoff	Thru~8.0kHz	0-52	table#3	
7	LPF Cutoff	1.0k~Thru	34-60	table#3	
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11	Liveness	0~10	0-10		
12	Density	0~3	0-3		
13	High Damp	0.1~1.0	1-10		
14					
15					
16					

GATE REVERB, REVERSE GATE (variation block)
[GateReverb, ReversGate (DSP3)]

No.	Parameter	Display	Value	See Table	Control
1	Type	TypeA,TypeB	0-1		
2	Room Size	0.1~7.0	0-44	table#6	
3	Diffusion	0~10	0-10		
4	Initial Delay	0.1mS~200.0mS	0-127	table#5	
5	Feedback Level	-63~+63	1-127		
6	HPF Cutoff	Thru~8.0kHz	0-52	table#3	
7	LPF Cutoff	1.0k~Thru	34-60	table#3	
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11	Liveness	0~10	0-10		
12	Density	0~3	0-3		
13	High Damp	0.1~1.0	1-10		
14					
15					
16					

KARAOKE1,2,3 (variation, insertion block)
[Karaoke1..3 (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.1mS~400.0mS	0-127	table#7	
2	Feedback Level	-63~+63	1-127		
3	HPF Cutoff	Thru~8.0kHz	0-52	table#3	
4	LPF Cutoff	1.0k~Thru	34-60	table#3	
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11					
12					
13					
14					
15					
16					

CHORUS1,2,3,4, CELESTE1,2,3,4 (chorus, variation, insertion block)
[RotarySp5, Chorus1..8, Celeste1,2 (Chorus,DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz~39.7Hz	0-127	table#1	
2	LFO Depth	0~127	0-127		
3	Feedback Level	-63~+63	1-127		
4	Delay Offset	0.0mS~50mS	0-127	table#2	
5					
6	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11	EQ Mid Frequency	100Hz~10.0kHz (variation block)	14-54	table#3	
12	EQ Mid Gain	-12~+12dB (variation block)	52-76		
13	EQ Mid Width	1.0~12.0 (variation block)	10-120		
14					
15	Input Mode	mono/stereo	0-1		
16					

FLANGER1,2,3 (chorus, variation, insertion block)
[Flanger1..5 (Chorus,DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz~39.7Hz	0-127	table#1	
2	LFO Depth	0~127	0-127		
3	Feedback Level	-63~+63	1-127		
4	Delay Offset	0.0mS~50mS	0-127	table#2	
5					
6	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11	EQ Mid Frequency	100Hz~10.0kHz (variation block)	14-54	table#3	
12	EQ Mid Gain	-12~+12dB (variation block)	52-76		
13	EQ Mid Width	1.0~12.0 (variation block)	10-120		
14	LFO Phase Difference	-180~+180deg(resolution=3deg.)	4-124		
15					
16					

SYMPHONIC (chorus, variation, insertion block)
[Symphonic1,2 (Chorus,DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz~39.7Hz	0-127	table#1	
2	LFO Depth	0~127	0-127		
3	Delay Offset	0.0mS~50mS	0-127	table#2	
4					
5					
6	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11	EQ Mid Frequency	100Hz~10.0kHz (variation block)	14-54	table#3	
12	EQ Mid Gain	-12~+12dB (variation block)	52-76		
13	EQ Mid Width	1.0~12.0 (variation block)	10-120		
14					
15					
16					

ENSEMBLE DETUNE (chorus, variation, insertion block)
[EnsDetune (Chorus,DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	Detune	-50~+50cent	14-114		
2	Lch Init Delay	0.0mS~50mS	0-127	table#2	
3	Rch Init Delay	0.0mS~50mS	0-127	table#2	
4					
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11	EQ Low Frequency	32Hz~2.0kHz (variation, insertion block)	4-40	table#3	
12	EQ Low Gain	-12~+12dB (variation, insertion block)	52-76		
13	EQ High Frequency	500Hz~16.0kHz (variation, insertion block)	28-58	table#3	
14	EQ High Gain	-12~+12dB (variation, insertion block)	52-76		
15					
16					

AMBIENCE (variation block)
[Ambience (DSP3)]

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.0mS~50mS	0-127	table#2	
2	Output Phase	normal/invers	0-1		
3					
4					
5					
6	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11					
12					
13					
14					
15					
16					

ROTARY SPEAKER (variation, insertion block)
[RotarySp1,6 (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz~39.7Hz	0-127	table#1	●
2	LFO Depth	0~127	0-127		
3					
4					
5					
6	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		
11	EQ Mid Frequency	100Hz~10.0kHz (variation block)	14-54	table#3	
12	EQ Mid Gain	-12~+12dB (variation block)	52-76		
13	EQ Mid Width	1.0~12.0 (variation block)	10-120		
14					
15					
16					

2WAY ROTARY SPEAKER (variation block)
[2wayRotSp (DSP3)]

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed	0.0Hz~39.7Hz	0-127	table#1	●
2	Drive Low	0~127	0-127		
3	Drive High	0~127	0-127		
4	Low/High	L63>H ~ L=H ~ L<H63	1-127		
5					
6	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10					
11	Crossover Frequency	100Hz~10.0kHz	14-54	table#3	
12	Mic L-R Angle	0deg~180deg(resolution=3deg.)	0-60		
13					
14					
15					
16					

TREMOLO (variation, insertion block)
RotarySP4, Tremolo1,3 (DSP3,DSP4-7)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz~39.7Hz	0-127	table#1	●
2	AM Depth	0~127	0-127		
3	PM Depth	0~127	0-127		
4					
5					
6	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10					
11	EQ Mid Frequency	100Hz~10.0kHz (variation block)	14-54	table#3	
12	EQ Mid Gain	-12~+12dB (variation block)	52-76		
13	EQ Mid Width	1.0~12.0 (variation block)	10-120		
14	LFO Phase Difference	-180~+180deg(resolution=3deg.)	4-124		
15	Input Mode	mono/stereo	0-1		
16					

AUTO PAN (variation, insertion block)
[RotarySP2,3, Tremolo2, GtrTremolo, AutoPan1,2 (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz~39.7Hz	0-127	table#1	●
2	L/R Depth	0~127	0-127		
3	F/R Depth	0~127	0-127		
4	PAN Direction	L<->R,L->R,L<-R,Lturn,Rturn,L/R	0-5		
5					
6	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10					
11	EQ Mid Frequency	100Hz~10.0kHz (variation block)	14-54	table#3	
12	EQ Mid Gain	-12~+12dB (variation block)	52-76		
13	EQ Mid Width	1.0~12.0 (variation block)	10-120		
14					
15					
16					

PHASER 1 (chorus, variation, insertion block)
[Phaser(Chorus,DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz~39.7Hz	0-127	table#1	
2	LFO Depth	0~127	0-127		
3	Phase Shift Offset	0~127	0-127		
4	Feedback Level	-63~+63	1-127		
5					
6	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11	Stage	4,5,6 (chorus, insertion block) 4~12 (variation block)	4-6 4-12		
12	Diffusion	mono/stereo	0-1		
13					
14					
15					
16					

PHASER 2 (variation block)
[Phaser2 (DSP3)]

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz~39.7Hz	0-127	table#1	
2	LFO Depth	0~127	0-127		
3	Phase Shift Offset	0~127	0-127		
4	Feedback Level	-63~+63	1-127		
5					
6	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11	Stage	4,5,6(MU90ÇÖ3..6)	4-6		
12					
13	LFO Phase Difference	-180deg~+180deg(resolution=3deg.)	4-124		
14					
15					
16					

DISTORTION, OVERDRIVE (variation, insertion block)
[DistHvy, OverDrive (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	Drive	0~127	0-127		●
2	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
3	EQ Low Gain	-12~+12dB	52-76		
4	LPF Cutoff	1.0k~Thru	34-60	table#3	
5	Output Level	0~127	0-127		
6					
7	EQ Mid Frequency	100Hz~10.0kHz	14-54	table#3	
8	EQ Mid Gain	-12~+12dB	52-76		
9	EQ Mid Width	1.0~12.0	10-120		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		
11	Edge(Clip Curve)	0~127	0-127	mild~sharp	
12					
13					
14					
15					
16					

COMP+DIST (variation block)
[Comp+Dist (DSP3)]

No.	Parameter	Display	Value	See Table	Control
1	Drive	0~127	0-127		●
2	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
3	EQ Low Gain	-12~+12dB	52-76		
4	LPF Cutoff	1.0k~Thru	34-60	table#3	
5	Output Level	0~127	0-127		
6					
7	EQ Mid Frequency	100Hz~10.0kHz	14-54	table#3	
8	EQ Mid Gain	-12~+12dB	52-76		
9	EQ Mid Width	1.0~12.0	10-120		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		
11	Edge(Clip Curve)	0~127	0-127	mild~sharp	
12	Attack	1ms~40ms	0-19	table#8	
13	Release	10ms~680ms	0-15	table#9	
14	Threshold	-48dB~-6dB	79-121		
15	Ratio	1.0~20.0	0-7	table#10	
16					

AMP SIMULATOR (variation, insertion block)
[DistHard, DistSoft, AmpSim(DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	Drive	0~127	0-127		●
2	AMP Type	Off,Stack,Combo,Tube	0-3		
3	LPF Cutoff	1.0k~Thru	34-60	table#3	
4	Output Level	0~127	0-127		
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		
11	Edge(Clip Curve)	0~127	0-127	mild~sharp	
12					
13					
14					
15					
16					

3BAND EQ(MONO) (variation, insertion block)
[EQDisco, EQTel, 3BandEQ(DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Gain	-12~+12dB	52-76		
2	EQ Mid Frequency	100Hz~10.0kHz	14-54	table#3	
3	EQ Mid Gain	-12~+12dB	52-76		
4	EQ Mid Width	1.0~12.0	10-120		
5	EQ High Gain	-12~+12dB	52-76		
6	EQ Low Frequency	50Hz~2.0kHz	8-40	table#3	
7	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
8					
9					
10					
11					
12					
13					
14					
15	Input Mode	mono/stereo	0-1		
16					

2BAND EQ(STEREO) (variation, insertion block)
[2BandEQ(DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
2	EQ Low Gain	-12~+12dB	52-76		
3	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
4	EQ High Gain	-12~+12dB	52-76		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

AUTO WAH (variation, insertion block)
[AutoWah1,2 (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz~39.7Hz	0-127	table#1	
2	LFO Depth	0~127	0-127		
3	Cutoff Frequency Offset	0~127	0-127		●
4	Resonance	1.0~12.0	10-120		
5					
6	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		
11	Drive	0~127(variation block)	0-127		
12					
13					
14					
15					
16					

AUTO WAH+DIST, AUTO WHA+ODRV (variation block)
[AtWah+Dist, AtWah+OD(DSP3)]

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz~39.7Hz	0-127	table#1	
2	LFO Depth	0~127	0-127		
3	Cutoff Frequency Offset	0~127	0-127		●
4	Resonance	1.0~12.0	10-120		
5					
6	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		
11	Drive	0~127	0-127		
12	EQ Low Gain(distortion)	-12~+12dB	52-76		
13	EQ Mid Gain(distortion)	-12~+12dB	52-76		
14	LPF Cutoff	1.0kHz~thru	34-60	table#3	
15	Output Level	0~127	0-127		
16					

TOUCH WAH 1 (variation, insertion block), TOUCH WAH+DIST (variation block)
[TouchWah1 (DSP3,DSP4-7), TcWah+Dist (DSP3)]

No.	Parameter	Display	Value	See Table	Control
1	Sensitive	0~127	0-127		
2	Cutoff Frequency Offset	0~127	0-127		●
3	Resonance	1.0~12.0	10-120		
4					
5					
6	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		
11	Drive	0~127(variation block)	0-127		
12					
13					
14					
15					
16					

TOUCH WAH 2 (variation, insertion block), TOUCH WAH+ODRV (variation block)
[TouchWah2 (DSP3,DSP4-7), TcWah+OD(DSP3)]

No.	Parameter	Display	Value	See Table	Control
1	Sensitive	0~127	0-127		
2	Cutoff Frequency Offset	0~127	0-127		●
3	Resonance	1.0~12.0	10-120		
4					
5					
6	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		
11	Drive	0~127(variation block)	0-127		
12	EQ Low Gain(distortion)	-12~+12dB(variation block)	52-76		
13	EQ Mid Gain(distortion)	-12~+12dB(variation block)	52-76		
14	LPF Cutoff	1.0kHz~thru(variation block)	34-60	table#3	
15	Output Level	0~127(variation block)	0-127		
16					

PITCH CHANGE 1 (variation block)
[PitchChg1(DSP3)]

No.	Parameter	Display	Value	See Table	Control
1	Pitch	-24~+24	40-88		
2	Initial Delay	0.1mS~400.0mS	0-127	table#7	
3	Fine 1	-50~+50	14-114		
4	Fine 2	-50~+50	14-114		
5	Feedback Level	-63~+63	1-127		
6					
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11	Pan 1	L63~R63	1-127		
12	Output Level 1	0~127	0-127		
13	Pan 2	L63~R63	1-127		
14	Output Level 2	0~127	0-127		
15					
16					

PITCH CHANGE 2 (variation block)
[PitchChg2 (DSP3)]

No.	Parameter	Display	Value	See Table	Control
1	Pitch	-24~+24	40-88		
2	Initial Delay	0.1mS~400.0mS	0-127	table#7	
3	Fine 1	-50~+50cent	14-114		
4	Fine 2	-50~+50cent	14-114		
5	Feedback Level	-63~+63	1-127		
6					
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11	Pan 1	L63~R63	1-127		
12	Output Level 1	0~127	0-127		
13	Pan 2	L63~R63	1-127		
14	Output Level 2	0~127	0-127		
15					
16					

COMPRESSOR (variation, insertion block)
[Compressor (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	Attack	1~40ms	0-19	table#8	
2	Release	10~680ms	0-15	table#9	
3	Threshold	-48~-6dB	79-121		
4	Ratio	1.0~20.0	0-7	table#10	
5	Output Level	0~127	0-127		
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

NOISE GATE (variation, insertion block)
[NoiseGate (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	Attack	1~40ms	0-19	table#8	
2	Release	10~680ms	0-15	table#9	
3	Threshold	-72~-30dB	55-97		
4	Output Level	0~127	0-127		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

VOICE CANCEL (variation block)
[VoiceCancel (DSP3)]

No.	Parameter	Display	Value	See Table	Control
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11	Low Adjust	0~26	0-26		
12	High Adjust	0~26	0-26		
13					
14					
15					
16					

NO EFFECT (reverb, chorus, variation block)
[NoEffect (Reverb,Chorus,DSP3)]

No.	Parameter	Display	Value	See Table	Control
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

THRU (variation, insertion block)
[Thru (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

[DelayLCR@T (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	16th,16th/3,16th.,8th,8th/3,8th.,4th,4th/3,4th.	1-7150	table#12	
2	Rch Delay	16th,16th/3,16th.,8th,8th/3,8th.,4th,4th/3,4th.	1-7150	table#12	
3	Cch Delay	16th,16th/3,16th.,8th,8th/3,8th.,4th,4th/3,4th.	1-7150	table#12	
4	Feedback Delay	16th,16th/3,16th.,8th,8th/3,8th.,4th,4th/3,4th.	1-7150	table#12	
5	Feedback Level	-63~+63	1-127		
6	Cch Level	0~127	0-127		
7	High Damp	0.1~1.0	1-10		
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
14	EQ Low Gain	-12~+12dB	52-76		
15	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
16	EQ High Gain	-12~+12dB	52-76		

[DelayLR@T (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	16th,16th/3,16th.,8th,8th/3,8th.,4th,4th/3,4th.	1-7150	table#12	
2	Rch Delay	16th,16th/3,16th.,8th,8th/3,8th.,4th,4th/3,4th.	1-7150	table#12	
3	Feedback Delay 1	16th,16th/3,16th.,8th,8th/3,8th.,4th,4th/3,4th.	1-7150	table#12	
4	Feedback Delay 2	16th,16th/3,16th.,8th,8th/3,8th.,4th,4th/3,4th.	1-7150	table#12	
5	Feedback Level	-63~+63	1-127		
6	High Damp	0.1~1.0	1-10		
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
14	EQ Low Gain	-12~+12dB	52-76		
15	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
16	EQ High Gain	-12~+12dB	52-76		

[Echo@T (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay1	16th,16th/3,16th.,8th,8th/3,8th.	1-3550	table#12	
2	Lch Feedback Level	-63~+63	1-127		
3	Rch Delay1	16th,16th/3,16th.,8th,8th/3,8th.	1-3550	table#12	
4	Rch Feedback Level	-63~+63	1-127		
5	High Damp	0.1~1.0	1-10		
6	Lch Delay2	16th,16th/3,16th.,8th,8th/3,8th.	1-3550	table#12	
7	Rch Delay2	16th,16th/3,16th.,8th,8th/3,8th.	1-3550	table#12	
8	Delay2 Level	0~127	0-127		
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
14	EQ Low Gain	-12~+12dB	52-76		
15	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
16	EQ High Gain	-12~+12dB	52-76		

[CrossDly@T (DSP3,DSP4-7)]

No.	Parameter	Display	Value	See Table	Control
1	L->R Delay	16th,16th/3,16th.,8th,8th/3,8th.	1-3550	table#12	
2	R->L Delay	16th,16th/3,16th.,8th,8th/3,8th.	1-3550	table#12	
3	Feedback Level	-63~+63	1-127		
4	Input Select	L,R,L&R	0-2		
5	High Damp	0.1~1.0	1-10		
6					
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz~2.0kHz	4-40	table#3	
14	EQ Low Gain	-12~+12dB	52-76		
15	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
16	EQ High Gain	-12~+12dB	52-76		

< Table 1-13 > Effect Data Value Assign Table

Table#1
LFO Frequency

Data	Value	Data	Value	Data	Value	Data	Value
0	0.00	32	1.35	64	2.69	96	8.41
1	0.04	33	1.39	65	2.78	97	8.75
2	0.08	34	1.43	66	2.86	98	9.08
3	0.13	35	1.47	67	2.94	99	9.42
4	0.17	36	1.51	68	3.03	100	9.76
5	0.21	37	1.56	69	3.11	101	10.1
6	0.25	38	1.60	70	3.20	102	10.8
7	0.29	39	1.64	71	3.28	103	11.4
8	0.34	40	1.68	72	3.37	104	12.1
9	0.38	41	1.72	73	3.45	105	12.8
10	0.42	42	1.77	74	3.53	106	13.5
11	0.46	43	1.81	75	3.62	107	14.1
12	0.51	44	1.85	76	3.70	108	14.8
13	0.55	45	1.89	77	3.87	109	15.5
14	0.59	46	1.94	78	4.04	110	16.2
15	0.63	47	1.98	79	4.21	111	16.8
16	0.67	48	2.02	80	4.37	112	17.5
17	0.72	49	2.06	81	4.54	113	18.2
18	0.76	50	2.10	82	4.71	114	19.5
19	0.80	51	2.15	83	4.88	115	20.9
20	0.84	52	2.19	84	5.05	116	22.2
21	0.88	53	2.23	85	5.22	117	23.6
22	0.93	54	2.27	86	5.38	118	24.9
23	0.97	55	2.31	87	5.55	119	26.2
24	1.01	56	2.36	88	5.72	120	27.6
25	1.05	57	2.40	89	6.06	121	28.9
26	1.09	58	2.44	90	6.39	122	30.3
27	1.14	59	2.48	91	6.73	123	31.6
28	1.18	60	2.52	92	7.07	124	33.0
29	1.22	61	2.57	93	7.40	125	34.3
30	1.26	62	2.61	94	7.74	126	37.0
31	1.30	63	2.65	95	8.08	127	39.7

Table#2
Modulation Delay Offset

Data	Value	Data	Value	Data	Value	Data	Value
0	0.0	32	3.2	64	6.4	96	9.6
1	0.1	33	3.3	65	6.5	97	9.7
2	0.2	34	3.4	66	6.6	98	9.8
3	0.3	35	3.5	67	6.7	99	9.9
4	0.4	36	3.6	68	6.8	100	10.0
5	0.5	37	3.7	69	6.9	101	11.1
6	0.6	38	3.8	70	7.0	102	12.2
7	0.7	39	3.9	71	7.1	103	13.3
8	0.8	40	4.0	72	7.2	104	14.4
9	0.9	41	4.1	73	7.3	105	15.5
10	1.0	42	4.2	74	7.4	106	17.1
11	1.1	43	4.3	75	7.5	107	18.6
12	1.2	44	4.4	76	7.6	108	20.2
13	1.3	45	4.5	77	7.7	109	21.8
14	1.4	46	4.6	78	7.8	110	23.3
15	1.5	47	4.7	79	7.9	111	24.9
16	1.6	48	4.8	80	8.0	112	26.5
17	1.7	49	4.9	81	8.1	113	28.0
18	1.8	50	5.0	82	8.2	114	29.6
19	1.9	51	5.1	83	8.3	115	31.2
20	2.0	52	5.2	84	8.4	116	32.8
21	2.1	53	5.3	85	8.5	117	34.3
22	2.2	54	5.4	86	8.6	118	35.9
23	2.3	55	5.5	87	8.7	119	37.5
24	2.4	56	5.6	88	8.8	120	39.0
25	2.5	57	5.7	89	8.9	121	40.6
26	2.6	58	5.8	90	9.0	122	42.2
27	2.7	59	5.9	91	9.1	123	43.7
28	2.8	60	6.0	92	9.2	124	45.3
29	2.9	61	6.1	93	9.3	125	46.9
30	3.0	62	6.2	94	9.4	126	48.4
31	3.1	63	6.3	95	9.5	127	50.0

Table#3
EQ Frequency

Data	Value	Data	Value
0	THRU(0)	32	800
1	22	33	900
2	25	34	1.0k
3	28	35	1.1k
4	32	36	1.2k
5	36	37	1.4k
6	40	38	1.6k
7	45	39	1.8k
8	50	40	2.0k
9	56	41	2.2k
10	63	42	2.5k
11	70	43	2.8k
12	80	44	3.2k
13	90	45	3.6k
14	100	46	4.0k
15	110	47	4.5k
16	125	48	5.0k
17	140	49	5.6k
18	160	50	6.3k
19	180	51	7.0k
20	200	52	8.0k
21	225	53	9.0k
22	250	54	10.0k
23	280	55	11.0k
24	315	56	12.0k
25	355	57	14.0k
26	400	58	16.0k
27	450	59	18.0k
28	500	60	THRU(20.0k)
29	560		
30	630		
31	700		

Table#4
Reverb time

Data	Value	Data	Value	Data	Value
0	0.3	32	3.5	64	17.0
1	0.4	33	3.6	65	18.0
2	0.5	34	3.7	66	19.0
3	0.6	35	3.8	67	20.0
4	0.7	36	3.9	68	25.0
5	0.8	37	4.0	69	30.0
6	0.9	38	4.1		
7	1.0	39	4.2		
8	1.1	40	4.3		
9	1.2	41	4.4		
10	1.3	42	4.5		
11	1.4	43	4.6		
12	1.5	44	4.7		
13	1.6	45	4.8		
14	1.7	46	4.9		
15	1.8	47	5.0		
16	1.9	48	5.5		
17	2.0	49	6.0		
18	2.1	50	6.5		
19	2.2	51	7.0		
20	2.3	52	7.5		
21	2.4	53	8.0		
22	2.5	54	8.5		
23	2.6	55	9.0		
24	2.7	56	9.5		
25	2.8	57	10.0		
26	2.9	58	11.0		
27	3.0	59	12.0		
28	3.1	60	13.0		
29	3.2	61	14.0		
30	3.3	62	15.0		
31	3.4	63	16.0		

Table#5
Delay Time(200.0ms)

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	50.5	64	100.8	96	151.2
1	1.7	33	52.0	65	102.4	97	152.8
2	3.2	34	53.6	66	104.0	98	154.4
3	4.8	35	55.2	67	105.6	99	155.9
4	6.4	36	56.8	68	107.1	100	157.5
5	8.0	37	58.3	69	108.7	101	159.1
6	9.5	38	59.9	70	110.3	102	160.6
7	11.1	39	61.5	71	111.9	103	162.2
8	12.7	40	63.1	72	113.4	104	163.8
9	14.3	41	64.6	73	115.0	105	165.4
10	15.8	42	66.2	74	116.6	106	166.9
11	17.4	43	67.8	75	118.2	107	168.5
12	19.0	44	69.4	76	119.7	108	170.1
13	20.6	45	70.9	77	121.3	109	171.7
14	22.1	46	72.5	78	122.9	110	173.2
15	23.7	47	74.1	79	124.4	111	174.8
16	25.3	48	75.7	80	126.0	112	176.4
17	26.9	49	77.2	81	127.6	113	178.0
18	28.4	50	78.8	82	129.2	114	179.5
19	30.0	51	80.4	83	130.7	115	181.1
20	31.6	52	81.9	84	132.3	116	182.7
21	33.2	53	83.5	85	133.9	117	184.3
22	34.7	54	85.1	86	135.5	118	185.8
23	36.3	55	86.7	87	137.0	119	187.4
24	37.9	56	88.2	88	138.6	120	189.0
25	39.5	57	89.8	89	140.2	121	190.6
26	41.0	58	91.4	90	141.8	122	192.1
27	42.6	59	93.0	91	143.3	123	193.7
28	44.2	60	94.5	92	144.9	124	195.3
29	45.7	61	96.1	93	146.5	125	196.9
30	47.3	62	97.7	94	148.1	126	198.4
31	48.9	63	99.3	95	149.6	127	200.0

Table#6
Room Size

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	5.1	64	10.1	96	15.1
1	0.3	33	5.3	65	10.3	97	15.3
2	0.4	34	5.4	66	10.4	98	15.5
3	0.6	35	5.6	67	10.6	99	15.6
4	0.7	36	5.7	68	10.8	100	15.8
5	0.9	37	5.9	69	10.9	101	15.9
6	1.0	38	6.1	70	11.1	102	16.1
7	1.2	39	6.2	71	11.2	103	16.2
8	1.4	40	6.4	72	11.4	104	16.4
9	1.5	41	6.5	73	11.5	105	16.6
10	1.7	42	6.7	74	11.7	106	16.7
11	1.8	43	6.8	75	11.9	107	16.9
12	2.0	44	7.0	76	12.0	108	17.0
13	2.1	45	7.2	77	12.2	109	17.2
14	2.3	46	7.3	78	12.3	110	17.3
15	2.5	47	7.5	79	12.5	111	17.5
16	2.6	48	7.6	80	12.6	112	17.6
17	2.8	49	7.8	81	12.8	113	17.8
18	2.9	50	7.9	82	12.9	114	18.0
19	3.1	51	8.1	83	13.1	115	18.1
20	3.2	52	8.2	84	13.3	116	18.3
21	3.4	53	8.4	85	13.4	117	18.4
22	3.5	54	8.6	86	13.6	118	18.6
23	3.7	55	8.7	87	13.7	119	18.7
24	3.9	56	8.9	88	13.9	120	18.9
25	4.0	57	9.0	89	14.0	121	19.1
26	4.2	58	9.2	90	14.2	122	19.2
27	4.3	59	9.3	91	14.4	123	19.4
28	4.5	60	9.5	92	14.5	124	19.5
29	4.6	61	9.7	93	14.7	125	19.7
30	4.8	62	9.8	94	14.8	126	19.8
31	5.0	63	10.0	95	15.0	127	20.0

Table#7
Delay Time(400.0ms)

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	100.9	64	201.8	96	302.4
1	3.2	33	104.0	65	204.8	97	305.5
2	6.4	34	107.2	66	207.9	98	308.7
3	9.5	35	110.3	67	211.1	99	311.8
4	12.7	36	113.5	68	214.2	100	315.0
5	15.8	37	116.6	69	217.4	101	318.1
6	19.0	38	119.8	70	220.5	102	321.3
7	22.1	39	122.9	71	223.7	103	324.4
8	25.3	40	126.1	72	226.8	104	327.6
9	28.4	41	129.2	73	230.0	105	330.7
10	31.6	42	132.4	74	233.1	106	333.9
11	34.7	43	135.5	75	236.3	107	337.0
12	37.9	44	138.6	76	239.4	108	340.2
13	41.0	45	141.8	77	242.6	109	343.3
14	44.2	46	144.9	78	245.7	110	346.5
15	47.3	47	148.1	79	248.9	111	349.6
16	50.5	48	151.2	80	252.0	112	352.8
17	53.6	49	154.4	81	255.2	113	355.9
18	56.8	50	157.5	82	258.3	114	359.1
19	59.9	51	160.7	83	261.5	115	362.2
20	63.1	52	163.8	84	264.6	116	365.4
21	66.2	53	167.0	85	267.7	117	368.5
22	69.4	54	170.1	86	270.9	118	371.7
23	72.5	55	173.3	87	274.0	119	374.8
24	75.7	56	176.4	88	277.2	120	378.0
25	78.8	57	179.6	89	280.3	121	381.1
26	82.0	58	182.7	90	283.5	122	384.3
27	85.1	59	185.9	91	286.6	123	387.4
28	88.3	60	189.0	92	289.8	124	390.6
29	91.4	61	192.2	93	292.9	125	393.7
30	94.6	62	195.3	94	296.1	126	396.9
31	97.7	63	198.5	95	299.2	127	400.0

Table#8
Compressor Attack Time

Data	Value
0	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	10
10	12
11	14
12	16
13	18
14	20
15	23
16	26
17	30
18	35
19	40

Table#9
Compressor Release Time

Data	Value
0	10
1	15
2	25
3	35
4	45
5	55
6	65
7	75
8	85
9	100
10	115
11	140
12	170
13	230
14	340
15	680

Table#10
Compressor Ratio

Data	Value
0	1.0
1	1.5
2	2.0
3	3.0
4	5.0
5	7.0
6	10.0
7	20.0

Table#11
Reverb Width;Depth;Height

Data	Value	Data	Value	Data	Value	Data	Value
0	0.5	32	8.8	64	17.6	96	27.5
1	0.8	33	9.1	65	17.9	97	27.8
2	1.0	34	9.4	66	18.2	98	28.1
3	1.3	35	9.6	67	18.5	99	28.5
4	1.5	36	9.9	68	18.8	100	28.8
5	1.8	37	10.2	69	19.1	101	29.2
6	2.0	38	10.4	70	19.4	102	29.5
7	2.3	39	10.7	71	19.7	103	29.9
8	2.6	40	11.0	72	20.0	104	30.2
9	2.8	41	11.2	73	20.2		
10	3.1	42	11.5	74	20.5		
11	3.3	43	11.8	75	20.8		
12	3.6	44	12.1	76	21.1		
13	3.9	45	12.3	77	21.4		
14	4.1	46	12.6	78	21.7		
15	4.4	47	12.9	79	22.0		
16	4.6	48	13.1	80	22.4		
17	4.9	49	13.4	81	22.7		
18	5.2	50	13.7	82	23.0		
19	5.4	51	14.0	83	23.3		
20	5.7	52	14.2	84	23.6		
21	5.9	53	14.5	85	23.9		
22	6.2	54	14.8	86	24.2		
23	6.5	55	15.1	87	24.5		
24	6.7	56	15.4	88	24.9		
25	7.0	57	15.6	89	25.2		
26	7.2	58	15.9	90	25.5		
27	7.5	59	16.2	91	25.8		
28	7.8	60	16.5	92	26.1		
29	8.0	61	16.8	93	26.5		
30	8.3	62	17.1	94	26.8		
31	8.6	63	17.3	95	27.1		

Table#12
Tempo Delay

Value		Display	Note
Min	Max		
1	1183	16th	1/16 note
1184	1578	16th/3	1/16 note triplet
1579	1775	16th.	1/16 note dotted
1776	2367	8th	1/8 note
2368	3156	8th/3	1/8 note triplet
3157	3550	8th.	1/8 note dotted
3551	4733	4th	1/4 note
4734	6311	4th/3	1/4 note triplet
6312	7100	4th.	1/4 note dotted

[Portable Keyboard]
Model: PSR-8000

MIDI Implementation Chart

Date: 08-SEP-1997
Version: 1.0

Function	Transmitted	Recognized	Remarks
Basic Default	1~16 *1	1~16 *2	
Basic Changed	1~16 *1	1~16 *2	
Mode Default	3	3	
Mode Messages	X	X	
Mode Altered	**********	X	
Note Number : True voice	0~127 **********	0~127 0~127	
Velocity Note ON	O 9nH, v=1~127	O 9nH, v=1~127	
Velocity Note OFF	X 9nH, v=0	X	
After key's	X	X	
After Ch's	O	O	
Pitch Bender	O	O	
Control Change 0, 32	O	O	Bank Select
1	O	O	Modulation
5	O	O	Portamento Time
7, 10, 11	O	O	
6, 38	O	O	Data Entry
64~67	O	O	
71, 74	O	O	Sound Controller
72, 73	X *3	O	Sound Controller
84	X *3	O	Portamento Controllers
91, 93, 94	O	O	Effect Depth
96,97	X	O	Data Inc, Dec
98,99	O	O	RPN LSB, MSB
98,99	O	O	NRPN LSB, MSB
100,101	O	O	RPN LSB, MSB
120	X	O	All Sound Off
121	X	O	Reset All Controllers
Program Change : True #	O 0~127 **********	O 0~127	
System Exclusive	O	O	
System : Song Position	X	X	
System : Song Select	X	X	
Common : Tune	X	X	
System : Clock	O	O	
Real Time : Commands	O	O	
Aux : Local ON/OFF	X	X	
Aux : All Notes OFF	X	O (123~127)	
Messages : Active Sense	O	O	
Messages : Reset	X	X	

Mode 1 : OMNI ON, POLY
Mode 2 : OMNI ON, MONO
O : Yes
Mode 3 : OMNI OFF, POLY
Mode 4 : OMNI OFF, MONO
X : No

Notes

*1 The tracks for each channel can be selected via the panel.

*2 The tone generator normally functions as a 16-channel multi-timbre tone generator in response to MIDI input. MIDI messages therefore do not normally affect the panel voices or other panel settings.
The MIDI messages listed below, however, do affect the panel voice, style, multi pad, and song settings.

- MIDI MASTER TUNE, XG System parameter MASTER TUNE
- XG System parameter TRANSPOSE
- System exclusive messages which change the REVERB, CHORUS or DSP EFFECT settings.
- XG MULTI EQ parameters

Also, MIDI messages affect the panel settings when one of the following MIDI reception modes is selected.
These modes can be selected via the panel functions .

- LEAD, RIGHT1, RIGHT2, LEFT, KEYBOARD, ACMP RHYTHM1, ACMP RHYTHM2, ACMP BASS, ACMP CHORD1, ACMP CHORD2, ACMP PAD, ACMP PHRASE1, ACMP PHRASE2:

  See "MIDI RECEIVE MESSAGES FOR INDIVIDUAL PARTS" below.

- CHORD:
  The note on/off messages received at the channel(s) set to "CHORD" are recognized as the fingering for the accompaniment section. The chords to be detected depend on the fingering modes specified for the PSR-8000. The chords will be detected regardless of the accompaniment on/off and split point settings on the PSR-8000 panel.

- ROOT:
  The note on/off messages received at the channel(s) set to "ROOT" are recognized as the bass notes for the accompaniment section. The bass notes will be detected regardless of the accompaniment on/off and split point settings on the PSR-8000 panel.

- PANEL CONTROL:
  The note on/off messages control the panel function which is selected via the MIDI PANEL CONTROL page.

- VOCAL HARMONY:
  See "VOCAL HARMONY MIDI SPECIFICATIONS" below.

- OFF:
  MIDI channel messages will not be received on the designated channel.

*3 These Control Change Messages are not transmitted by PSR-8000 panel operation, but may be transmitted by AUTO ACCOMPANIMENT or SONG playback.

MIDI RECEVE MESSAGES FOR INDIVIDUAL PARTS

Receivable messages depend on the part.

MIDI reception parts / Recognized	Panel voice					Accompaniment parts
	LEAD	RIGHT1	RIGHT2	LEFT	KEYBOARD	RHYTHM1 : PHRASE2
Note						
Note On/Off	O	O	O	O	O*1	O
Control Changes						
Bank Select MSB,LSB	O	O	O	O	×	O
Modulation	O	O	O	O	O*1	O
Portament Time	O	O	O	O	×	×
Volume	O	O	O	O	O*1	O
Expression	O	O	O	O	O*1	O
Pan	O	O	O	O	×	O
Sustain	O	O	O	O	O*1	×
Portament	O	O	O	O	×	×
Sostenute	O	O	O	O	O*1	×
Soft pedal	O	O	O	O	O*1	×
Harmonic Content	O	O	O	O	×	O
Release Time	O	O	O	O	×	O
Attck Time	O	O	O	O	×	O
Brightness	O	O	O	O	×	O
Reverb Send Level	O	O	O	O	×	O
Chorus Send Level	O	O	O	O	×	O
Variation Send Level	O	O	O	O	×	O
Pitch Bend	O	O	O	O	O*1	O
Ch's After Touch	O	O	O	O	O*1	×
RPN FINE TUNE	O	O	O	O	×	×
RPN PITCH BEND SENSITIVITY	O	O	O	O	×	×
All notes off	O	O	O	O	O*1	O
Program						
Program Change	O	O	O	O	O*2	O
XG MULTI PART Parameters						
BANK SELECT MSB	O	O	O	O	×	O
BANK SELECT LSB	O	O	O	O	×	O
PROGRAM CHANGE NUMBER	O	O	O	O	O *2	O
MONO/POLY MODE	O	O	O	O	×	×
NOTE SHIFT	O	O	O	O	×	O
DETUNE	O	O	O	O	×	O
VOLUME	O	O	O	O	O	O
VELOCITY SENSE DEPTH	O	O	O	O	×	O
VELOCITY SENSE OFFSET	O	O	O	O	×	O
PAN	O	O	O	O	×	O
NOTE LIMIT LOW	×	×	×	×	×	×
NOTE LIMIT HIGH	×	×	×	×	×	×
DRY LEVEL	O	O	O	O	×	O
CHORUS SEND	O	O	O	O	×	O
REVERB SEND	O	O	O	O	×	O
VARIATION SEND	O	O	O	O	×	O
VIBRATO RATE	O	O	O	O	×	O
VIBRATO DEPTH	O	O	O	O	×	O
VIBRATO DELAY	O	O	O	O	×	O
FILTER CUTOFF FREQUENCY	O	O	O	O	×	O
FILTER RESONANCE	O	O	O	O	×	O
EG ATTACK TIME	O	O	O	O	×	O
EG DECAY TIME	O	O	O	O	×	O
EG RELEASE TIME	O	O	O	O	×	O

MIDI reception parts / Recognized	Panel voice					Accompaniment parts
	LEAD	RIGHT1	RIGHT2	LEFT	KEYBOARD	RHYTHM1 : PHRASE2
MW PITCH CONTROL	O	O	O	O	×	O
MW FILTER CONTROL	O	O	O	O	×	O
MW AMPLITUDE CONTROL	O	O	O	O	×	O
MW LFO PMOD DEPTH	O	O	O	O	×	O
MW LFO FMOD DEPTH	O	O	O	O	×	O
MW LFO AMOD DEPTH	O	O	O	O	×	O
BEND PITCH CONTROL	O	O	O	O	×	O
BEND FILTER CONTROL	O	O	O	O	×	O
BEND AMPLITUDE CONTROL	O	O	O	O	×	O
BEND LFO PMOD DEPTH	O	O	O	O	×	O
BEND LFO FMOD DEPTH	O	O	O	O	×	O
BEND LFO AMOD DEPTH	O	O	O	O	×	O
Rcv NOTE MESSAGE	×	×	×	×	×	×
SCALE TUNING C	O	O	O	O	×	O
SCALE TUNING C#	O	O	O	O	×	O
SCALE TUNING D	O	O	O	O	×	O
SCALE TUNING D#	O	O	O	O	×	O
SCALE TUNING E	O	O	O	O	×	O
SCALE TUNING F	O	O	O	O	×	O
SCALE TUNING F#	O	O	O	O	×	O
SCALE TUNING G	O	O	O	O	×	O
SCALE TUNING G#	O	O	O	O	×	O
SCALE TUNING A	O	O	O	O	×	O
SCALE TUNING A#	O	O	O	O	×	O
SCALE TUNING B	O	O	O	O	×	O
CAT PITCH CONTROL	O	O	O	O	×	×
CAT FILTER CONTROL	O	O	O	O	×	×
CAT AMPLITUDE CONTROL	O	O	O	O	×	×
CAT LFO PMOD DEPTH	O	O	O	O	×	×
CAT LFO FMOD DEPTH	O	O	O	O	×	×
CAT LFO AMOD DEPTH	O	O	O	O	×	×
PORTAMENTO SWITCH	O	O	O	O	×	×
PORTAMENTO TIME	O	O	O	O	×	×
EQ BASS	O	O	O	O	×	O
EQ TREBLE	O	O	O	O	×	O
EQ BASS frequency	O	O	O	O	×	O
EQ TREBLE frequency	O	O	O	O	×	O
XG EFFECT1 Parameter						
VARIATION PART	O	O	O	O	×	O
XG EFFECT2 Parameters						
INSERTION1 PART	O	O	O	O	×	O
INSERTION2 PART	O	O	O	O	×	O
INSERTION3 PART	O	O	O	O	×	O
INSERTION4 PART	O	O	O	O	×	O

Notes

*1: The panels settings determine to which parts effects will be applied.

*2: Program change numbers select Registration Memories. (0...127 = 8sw x 16bank)

VOCAL HARMONY MIDI SPECIFICATIONS

Channel message

			Harmony ch	Melody ch
1) Note on / off				
9n kk vv		note on message	O	O
		Specifies pitch in the Vocoder mode. Velocity not recognized. Also used as Gender Threshold source for the Melody channel.		
8n kk vv		note off message	O	O
		Turns the current note off in the Vocoder mode.		
9n kk 00				
		Also used as Gender Threshold source for the Melody channel.		
2) Control change				
Bn 40 vv		damper pedal	O	O
64		RPN	O	O
65		RPN	O	O
62		NRPN	O	O
63		NRPN	O	O
06		Data entry MSB	O	O
64		Data Increment	O	O
26		Data Decrement	O	O
7B		All note off	O	O
3) RPN				
MSB	LSB			
00	00	Pitch bend sensitivity	O	O
7F	7F	NULL	O	O
4) NRPN				
MSB	LSB			
00	00	Harmony mute	O	×
01	08	Vibrato rate modulation	O	O
01	09	Vibrato depth modulation	O	O
01	0A	Vibrato delay modulation	O	O
01	1A	Detune modulation	O	×
		Controls the overall amount of detune.		
02	10	Harmony 1 volume	O	×
02	11	Harmony 2 volume	O	×
02	20	Harmony 1 pan	O	×
02	21	Harmony 2 pan	O	×
02	30	Harmony 1 detune	O	×
02	31	Harmony 2 detune	O	×
03	00	Lead gender type	×	O
03	01	Lead gender amount	×	O
5) Pitch bend				
E0 nn nn			O	O
		Only effective when melody channel Lead Gender ON.		

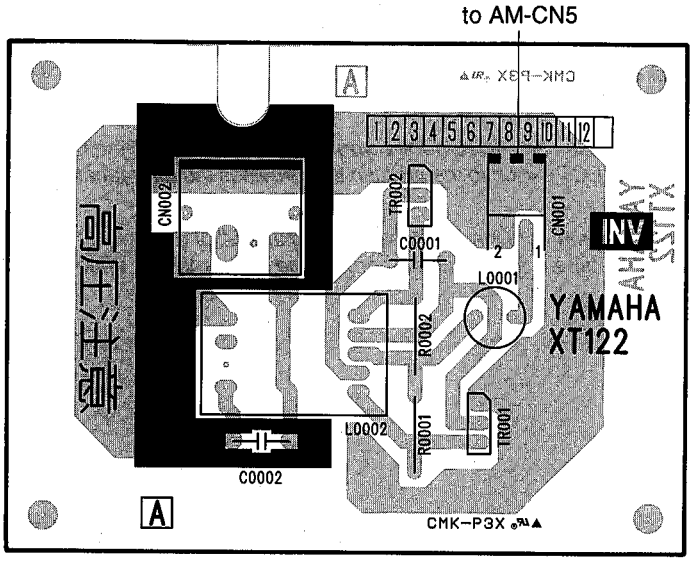
■ CIRCUIT BOARDS

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INLET Circuit Board 27
ES Circuit Board.....27
AM Circuit Board 28
RY Circuit Board.....28
DM Circuit Board 30
PN1 Circuit Board 34
ROM Circuit Board 34
AC Circuit Board 35
PN2 Circuit Board 36
HP Circuit Board 36
VR Circuit Board 36
JACK Circuit Board 36

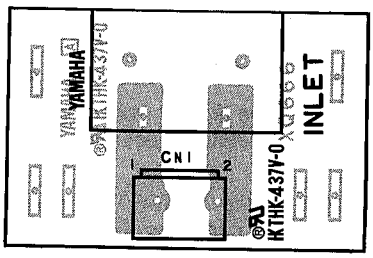
Note : See parts list for details of circuit board component parts.

● INV Circuit Board



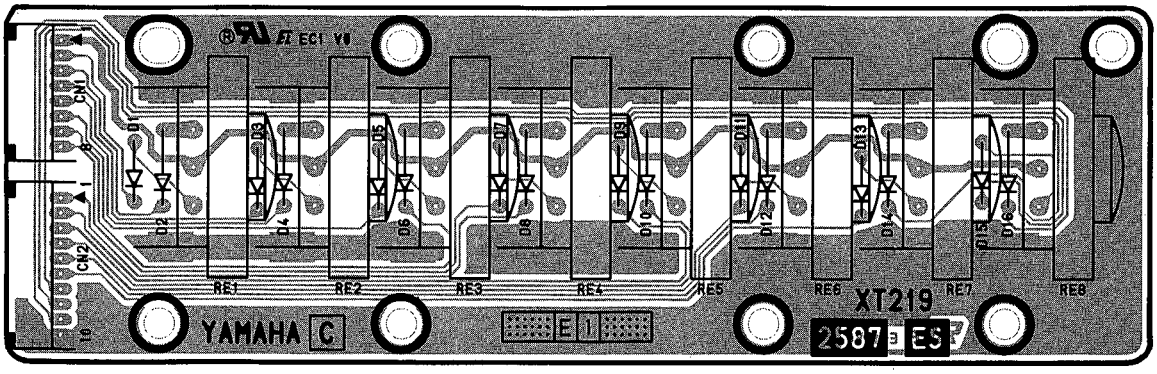
Component side

● INLET Circuit Board



Component side

● ES Circuit Board

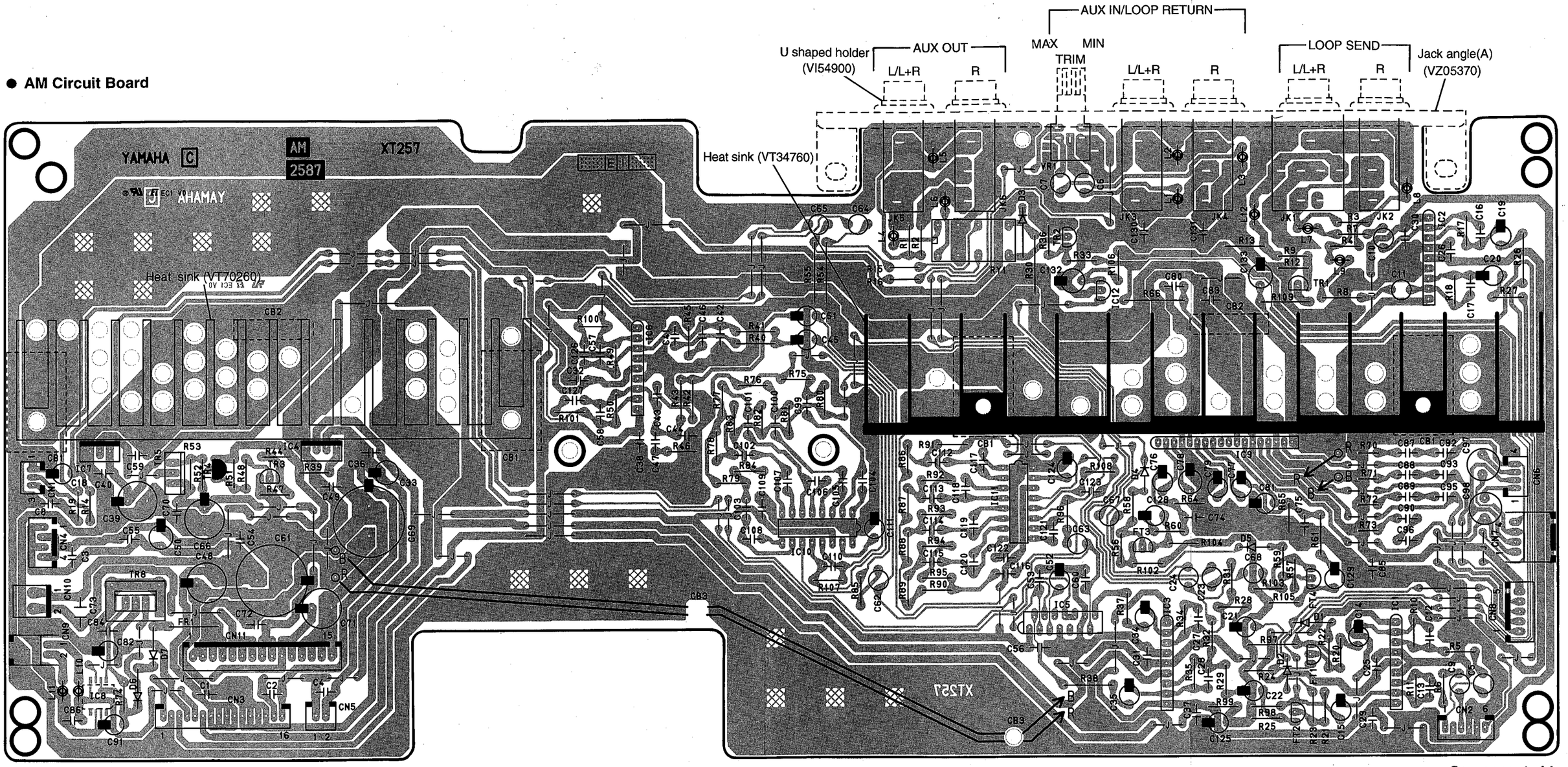


Component side

INV : 2NA-VY63890
INLET : 2NA-VT38810
ES : 2NA-VY97590 ⚠0

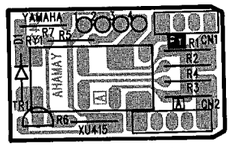
PSR-8000

● AM Circuit Board



Component side

● RY Circuit Board



Component side

AM : 2NA-VY89000 ⚠1
RY : 2NA-V000520

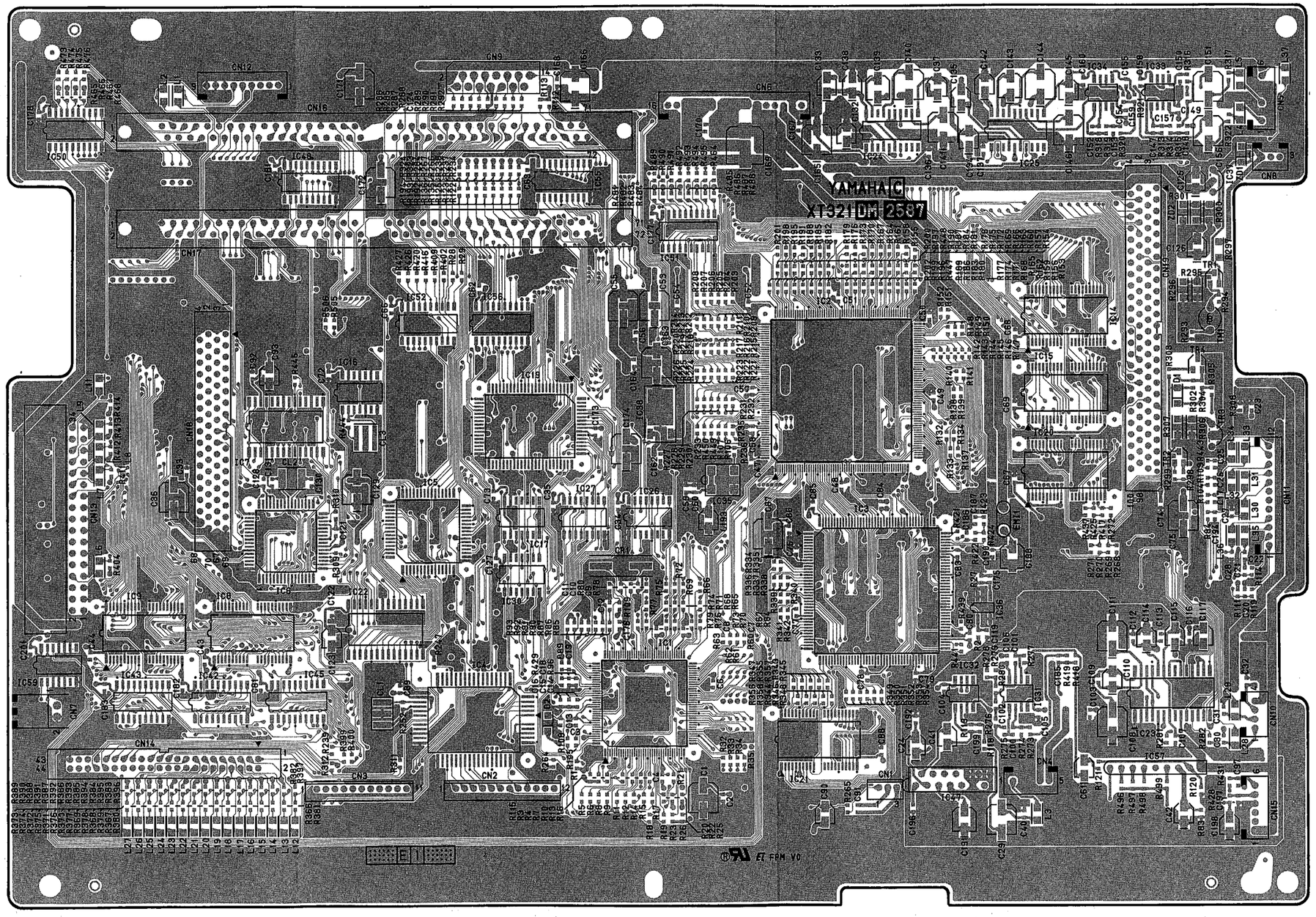
※ Additional Wires

Wire 3 : C78⊖ ↔ C124⊖
C53 GND ↔ C122 GND
Wire 4 : DR1 Frame ↔ C31 GND
Wire 5 : L5 GND ↔ IC6(4P)

} (Pattern side)

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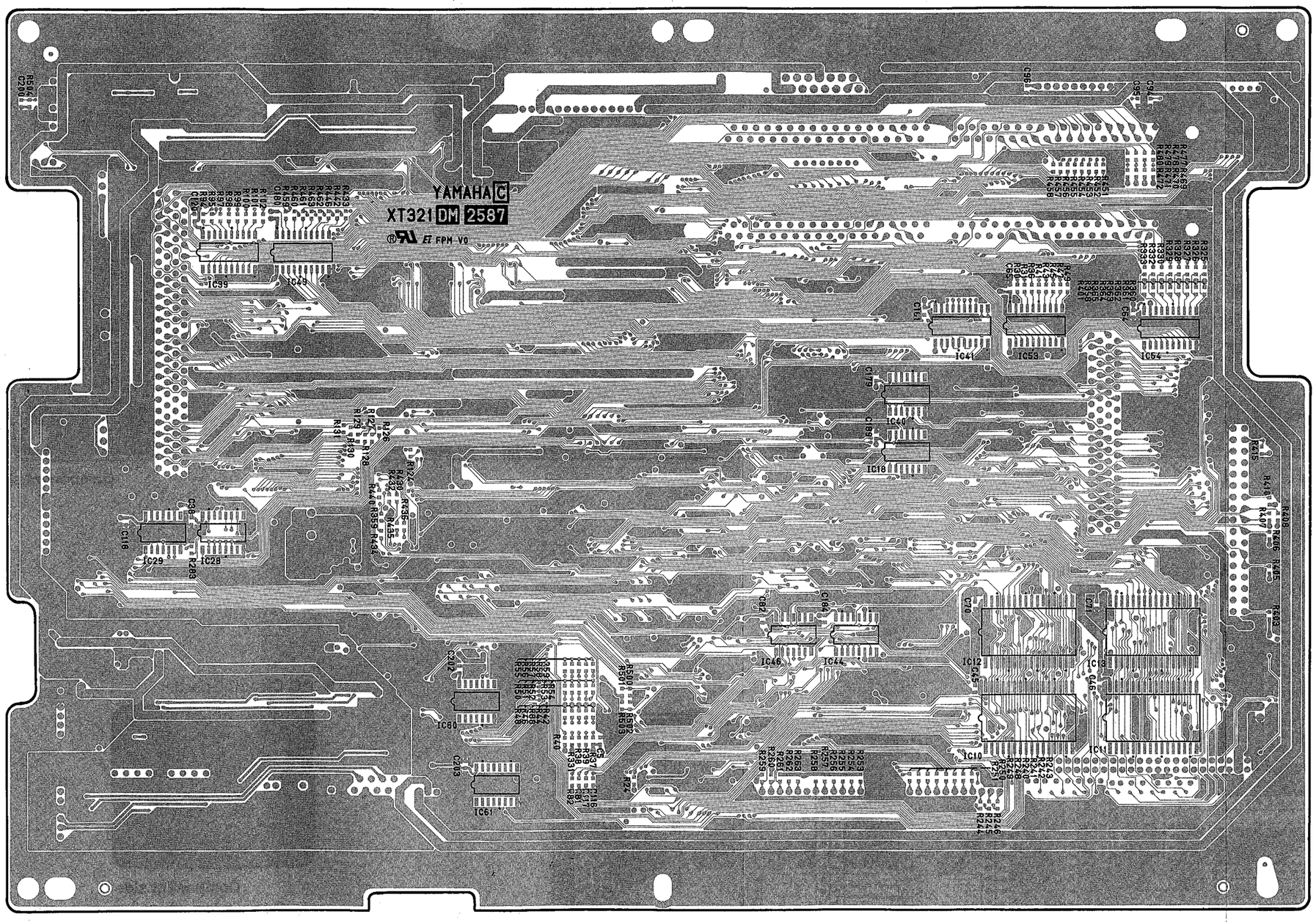
● DM Circuit Board



Component side

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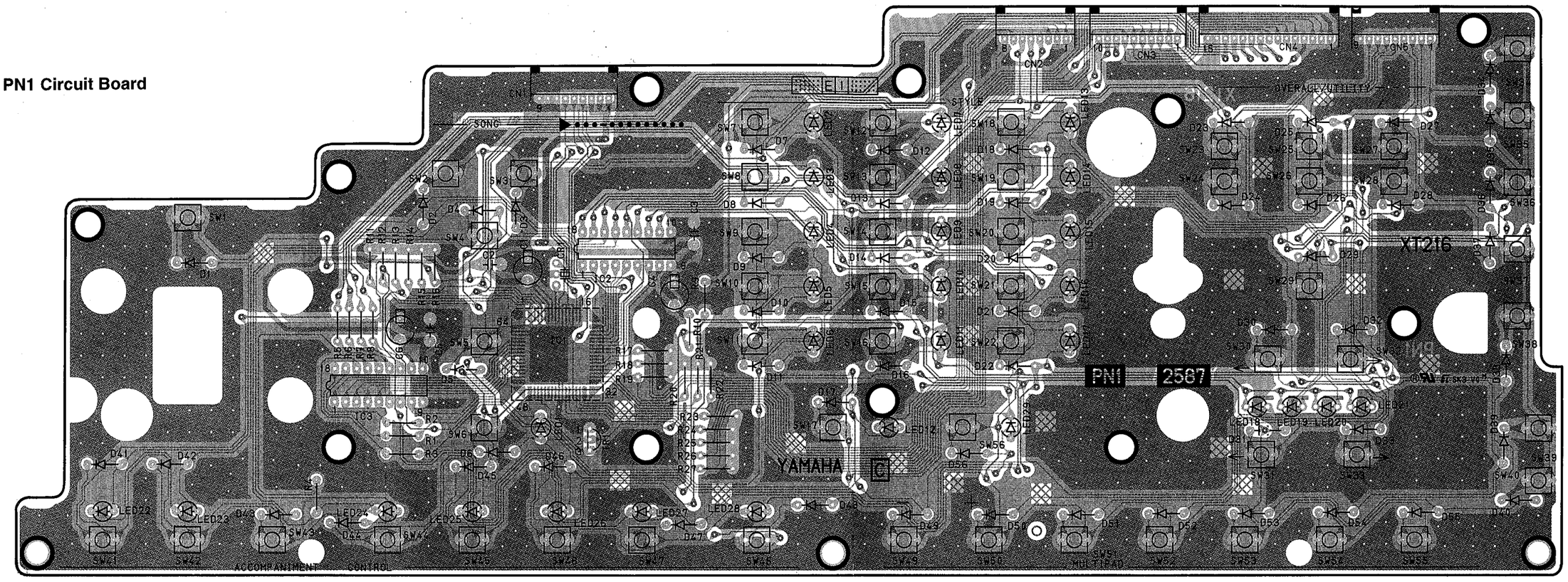
● **DM Circuit Board**



Pattern side

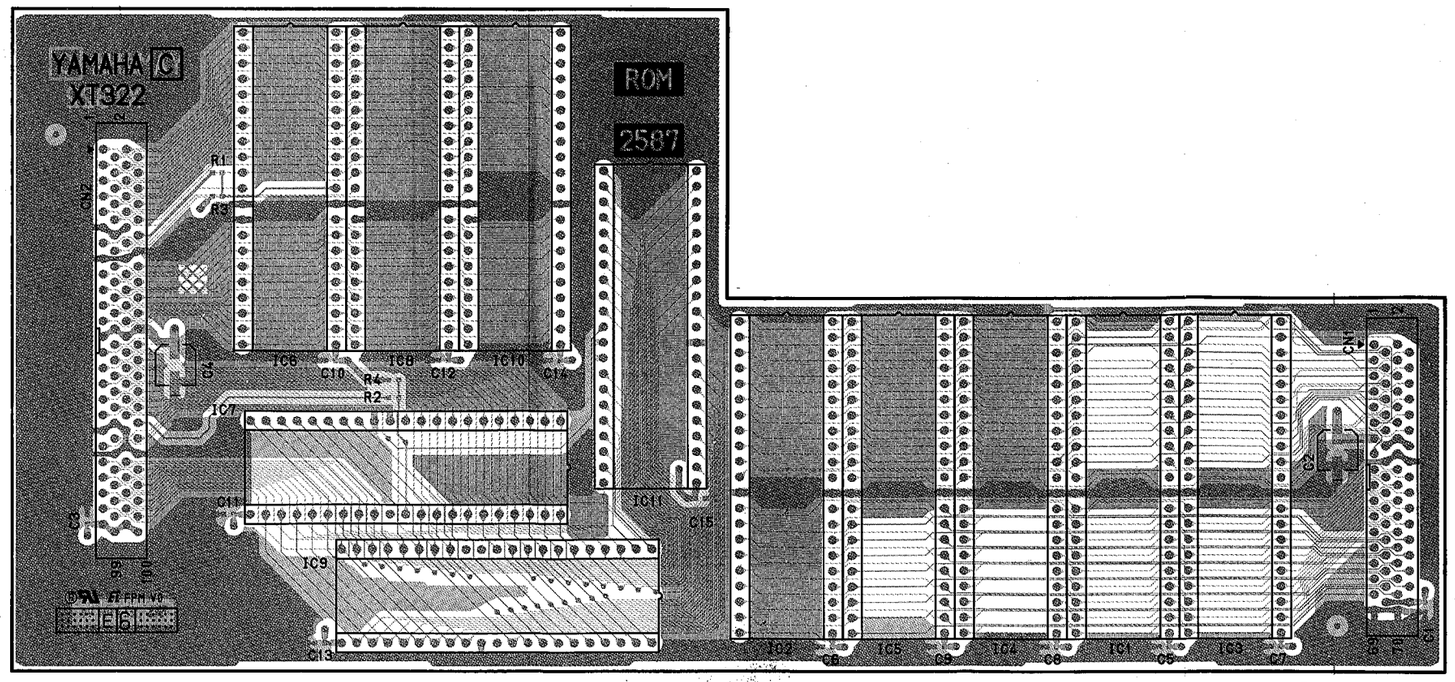
PSR-8000

● **PN1 Circuit Board**



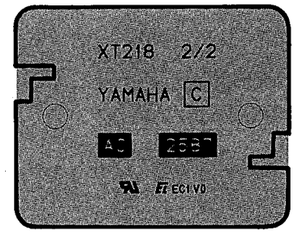
Component side

● **ROM Circuit Board**



Component side

● **AC Circuit Board**

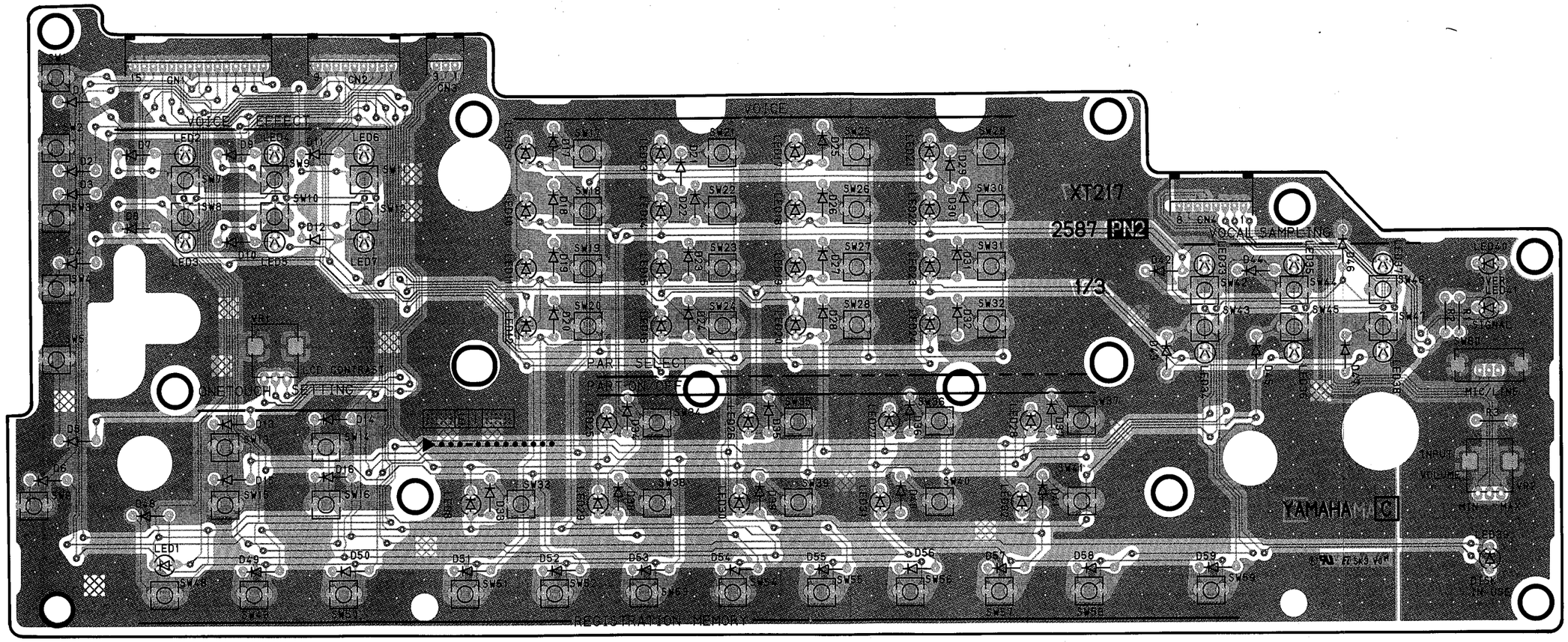


Component side

PN1 : 2NA-VY97480 ⚠0
ROM : 2NA-VZ03010 ⚠0
AC : 2NA-VY97540 ⚠0

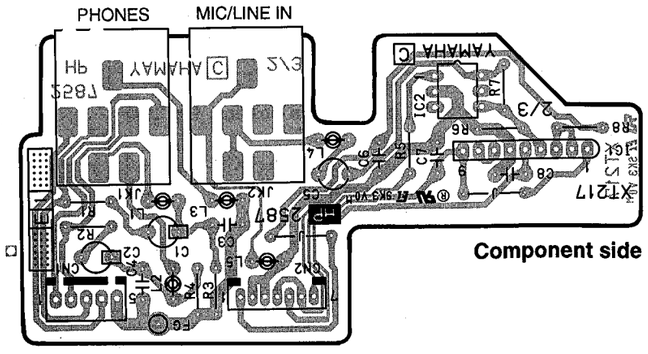
PSR-8000

● **PN2 Circuit Board**



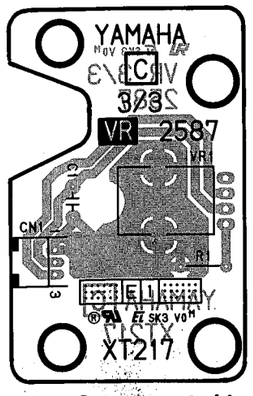
Component side

● **HP Circuit Board**



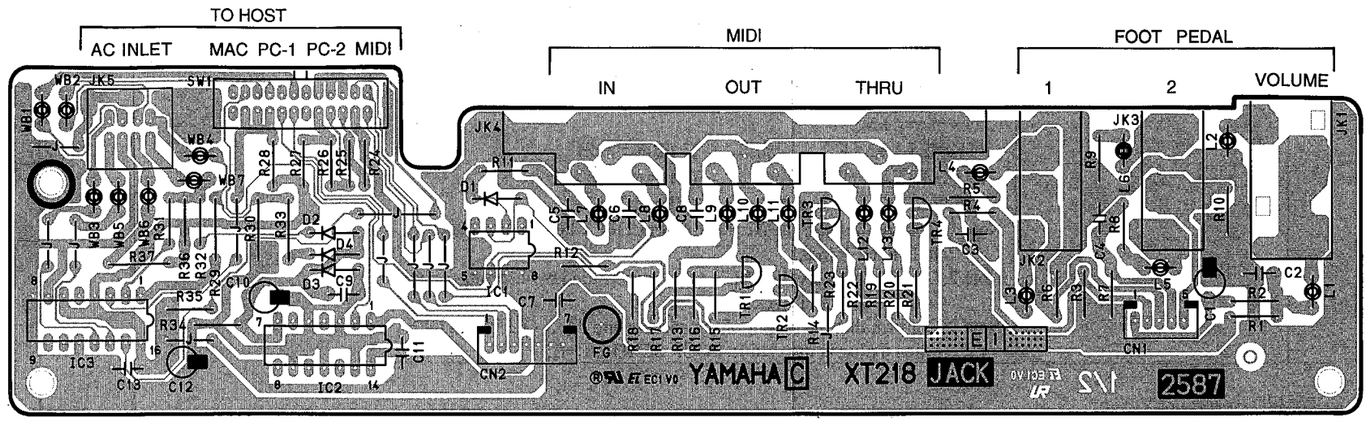
Component side

● **VR Circuit Board**



Component side

● **JACK Circuit Board**



Component side

PN2,HP,VR : 2NA-VY97500 ⚠0

JACK : 2NA-VY97540 ⚠0

PORTATONE

PSR-8000

PARTS LIST

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- RY Circuit Board 35
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- Power Supply Unit 36

Notes: DESTINATION ABBREVIATIONS

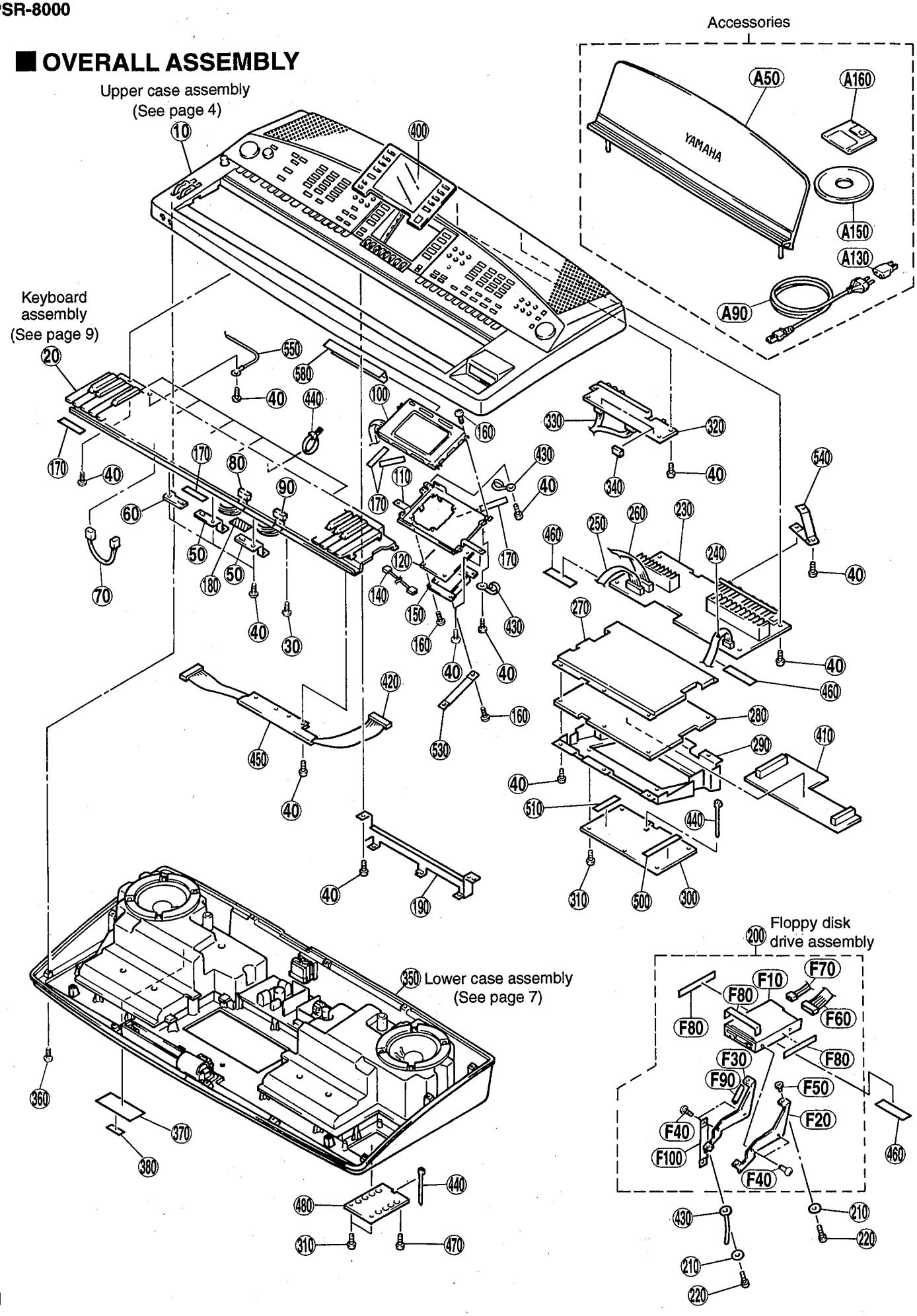
A : Australian model	J : Japanese model
B : British model	U : U.S. model
C : Canadian model	V : General export model (110 V)
E : European model	W : General export model (220 V)
I : Indonesian model	X : General export model
O : Chinese model	Y : Export model

■ WARNING

Components having special characteristics are marked ⚠ and must be replaced with parts having specification equal to those originally installed.

- The numbers in "QTY" shows quantities for each unit.
- The parts with "– –" in "Part No." are not available as spare parts.

■ OVERALL ASSEMBLY



REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
		OVERALL ASSEMBLY		総組立	PSR-8000		
	---	Overall Assembly		総組立	E,B (VZ20150)		
	---	Overall Assembly		総組立	U (VZ20160)		
	---	Overall Assembly		総組立	X (VZ20170)		
10	---	Upper Case Assembly		上ケースAss'y	(VZ20590)		
20	VN399200	Keyboard Assembly	C61K6	LC鍵盤Ass'y			29
30	EP640130	Bind Head Tapping Screw-B	4.0X10 MFZN2Y	+バインドBタイト		2	01
40	EP600250	Bind Head Tapping Screw-B	3.0X8 MFZN2Y	+バインドBタイト		37	01
* 50	VZ053500	Angle Bracket; DM	F1	DMシート固定金具F1		2	03
* 60	VZ053600	Angle Bracket, DM	F2	DMシート固定金具F2			03
70	---	Connector Assembly	MK1	MK1束線	DM-CN1=MK-CN1 (VY99810)		
80	---	Connector Assembly	MK2	MK2束線	DM-CN3=MK-CN2 (V200440)		
90	---	Connector Assembly	MK3	MK3束線	DM-CN2=MK-CN3 (VY99820)		
100	VT379600	LCD	EDMMPU3BBF	液晶ディスプレイ			27
* 110	VZ055300	Angle Bracket, LCD		LCD金具			06
120	VY638900	Circuit Board	INV	INVシート	(XT122A0)		13
140	---	Connector Assembly	INV	INV束線	AM-CN5=INV-CN1 (V200460)		
* 150	VZ664400	Cover, INV		INVカバー			05
160	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL	+バインドBタイト		8	01
170	VA126100	Adhesive Tape	12X50	粘着テープ		9	03
180	---	Tape	30X40	目隠しテープ	(VT59190)		
* 190	VZ055400	Angle Bracket, DM	R	DMシート固定金具R			05
200	---	Floppy Disk Drive Assembly		FDD Ass'y	(VZ24730)		
210	VS730200	Flat Washer	3.5X12 0.8 MFZN2	特殊平座金		4	01
220	VD964600	PWHP Tapping Screw	3.0X10 MFZN2Y	+PWHPタイト		4	01
* 230	VY890000	Circuit Board	AM	AMシート	(XT257C0)		
240	---	Connector Assembly	SIG	SIG束線	DM-CN5=AM-CN2 (VY99840)		
250	---	Connector Assembly	AM	AM束線	DM-CN6=AM-CN3 (VY99850)		
260	---	Connector Assembly	SWP	SWP束線	AM-CN11=PS-P100 (V200480)		
* 270	VZ059200	Shield Box	Upper	シールドボックス上			06
* 280	VZ030000	Circuit Board	DM	DMシート	(XT321C0)		
290	---	Shield Box Assembly		シールドボックスAss'y	(VZ00484)		
* 300	VZ049000	Cover Plate L, Lower Case	Large	底面蓋(大)			
310	VP157800	Bonding Head Screw	3.0X8 MFZN2BL	+ボンディング小ネジ		10	01
* 320	VY975500	Circuit Board	JACK	JACKシート	(XT218C0)		
330	---	Connector Assembly	JACK	JACK束線	DM-CN11=JACK-CN1,2 (VY99900)		
340	---	Spacer		スペーサー	(VU14380)	2	
350	---	Lower Case Assembly		下ケースAss'y	E,B,X (VZ20600)		
350	---	Lower Case Assembly		下ケースAss'y	U (VZ23150)		
360	EP600750	Bind Head Tapping Screw-B	4.0X14 MFZN2Y	+バインドBタイト		19	01
370	---	Name Plate		銘板	E,B,X (VZ26140)		
370	---	Name Plate		銘板	U (VZ26150)		
380	---	Label	DATE CODE	ラベル	U (VA03930)		
* 400	VZ247500	LCD Protector		LCD保護板			10
* 410	VZ030200	Circuit Board	ROM	ROMシート	(XT322C0)		
420	---	Connector Assembly	HDD	HDD束線	DM-CN14=HDD (VY99860)		
430	CB040540	Cord Binder	S-72B L=50	束線止め		3	01
440	CB069250	Cord Holder	BK-1	インシュロックタイ		9	01
450	---	Shield Plate	HD	HDシールドプレート	(VU19220)		
460	VF298800	Adhesive Tape	19X70	粘着テープ		4	01
470	VG048000	Bind Head Screw	3.0X4 MFNI33	+バインド小ネジ		4	01
480	---	Cover Plate	Small	底面蓋(小)	(VZ04890)		
500	---	Spacer A		スペーサー A	(VZ69990)		
510	---	Spacer B		スペーサー B	(VZ70000)		
530	---	Shield Sheet	A	シールドシート A	(VZ98730)		
540	---	Shield Sheet	B	シールドシート B	(VZ98760)		
550	---	GND Wire	(4)	アース4束線	(VZ80500)		
580	---	Cushion		防振フォーム L	(V202630)		
	---	FLOPPY DISK DRIVE ASSEMBLY		FDD Ass'y	(VZ24730)		
F10	VY859300	Floppy Disk Drive	D359T7	3.5"FDD			16
* F20	VZ055800	Holder, FDD		FDD金具R			04
* F30	VZ055900	Holder, FDD		FDD金具L			04
F40	VK712400	Bonding Head Screw	3.0X6 MFNI33	ボンディング小ネジ		4	01
F50	VA121600	Bushing		ゴムブッシュ		4	01
* F60	VY999200	Connector Assembly	FDD	FDD束線	DM-CN13=FDD		
F70	---	Connector Assembly	FD2	FD2束線	AM-CN4=DM-CN7,FDD(VY99960)		
F80	---	Adhesive Tape	ECT #590S W=15	綿粘着テープ	(ZL35000)		
F90	VA126100	Adhesive Tape	12X50	粘着テープ			03
F100	---	Shield Sheet	A	シールドシート A	(VZ98730)		

* New Parts（新規部品）

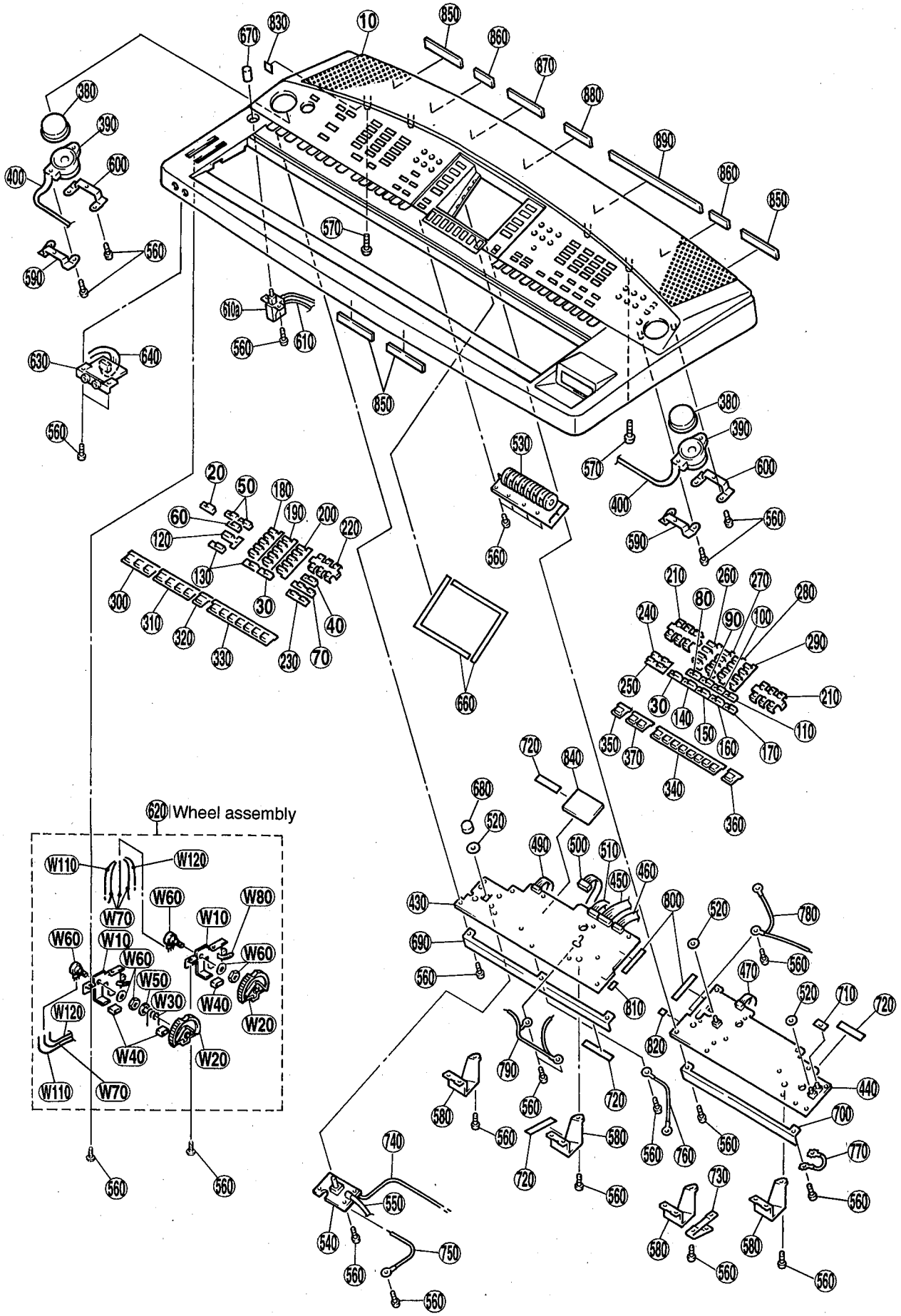
ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
		ACCESSORIES		付属品			
* A50	VZ202300	Music Rest Assembly		譜面板Ass'y			
A90	VT015900	AC Cord Set	E 2P 2.5m	電源コードセット	E,X		05
A90	VT015800	AC Cord Set	U2P 2.44m 7A	電源コードセット	U		06
A90	VT016000	AC Cord Set	B 2P 2.5m	電源コードセット	B		08
A130	VK726100	Connector	CCT5902	電源コネクタ	X		03
* A150	XT668A00	Compact Disk, Music CD		ミュージックCD			06
* A160	VZ215300	Floppy Disk		フロッピーディスク			04

* New Parts（新規部品）

ランク：Japan only

■ UPPER CASE ASSEMBLY



	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
		--	UPPER CASE ASSEMBLY		上ケースAss'y	PSR-8000 (VZ20590)		
*	10	VZ087100	Upper Case Sub-assembly		上ケースサブAss'y			
*	20	VY964700	Key Top Rubber	A1(Yellow)	キートップ A 1	DEMO/HELP		03
*	30	VY964800	Key Top Rubber	A2(Black)	キートップ A 2	VIR.ARRANGER,LEFT HOLD	2	03
*	40	VY964900	Key Top Rubber	A3(Violet)	キートップ A 3	DIRECT ACCESS		03
*	50	VY965000	Key Top Cover	A4	キートップ A 4	<<(SONG-REW/FF)	2	04
*	60	VY965100	Key Top Cover	A5	キートップ A 5	II(SONG-POUSE)		04
*	70	VY965200	Key Top Cover	A6	キートップ A 6	MASTER TRANSPOSE-RESET	2	04
*	80	VY965300	Key Top Cover	A7	キートップ A 7	LEFT(PART SELECT)		04
*	90	VY965400	Key Top Cover	A8	キートップ A 8	RIGHT 1(PART SELECT)		04
*	100	VY965500	Key Top Cover	A9	キートップ A 9	RIGHT 2(PART SELECT)		04
*	110	VY965600	Key Top Cover	A10	キートップ A 10	LEAD(PART SELECT)		04
*	120	VY965700	Key Top Cover	B	キートップ B	SONG SELECT		03
*	130	VY965800	Key Top Cover	C1	キートップ C 1	SONG,AUTO ACCOMPANIMENT	2	03
*	140	VY965900	Key Top Cover	C2	キートップ C 2	LEFT(PART ON/OFF)		04
*	150	VY966000	Key Top Cover	C3	キートップ C 3	RIGHT 1(PART ON/OFF)		04
*	160	VY966100	Key Top Cover	C4	キートップ C 4	RIGHT 2(PART ON/OFF)		04
*	170	VY966200	Key Top Cover	C5	キートップ C 5	LEAD(PART ON/OFF)		04
*	180	VY966500	Key Top Cover	D1	キートップ D 1	STYLE(8BEAT1-ROCK)		05
*	190	VY966600	Key Top Cover	D2	キートップ D 2	STYLE(DANCEFLOOR-COUNTRY)		05
*	200	VY966700	Key Top Cover	D3	キートップ D 3	STYLE(LATIN-CUSTOM STYLE)		05
*	210	VY966800	Key Top Cover	E1	キートップ E 1	VOICE EFFECT,VOCAL/SAMP.	2	04
*	220	VY966900	Key Top Cover	E2	キートップ E 2	OVERALL UTILITY		04
*	230	VY967200	Key Top Cover	F1	キートップ F 1	TEMPO(<,>)		04
*	240	VY967300	Key Top Cover	F2	キートップ F 2	ONE TOUCH SETTING(1,2)		04
*	250	VY967400	Key Top Cover	F3	キートップ F 3	ONE TOUCH SETTING(3,4)		04
*	260	VY967700	Key Top Cover	G1	キートップ G 1	VOICE(PIANO-ACCORDION)		05
*	270	VY967800	Key Top Cover	G2	キートップ G 2	VOICE(GUITER-BRASS)		05
*	280	VY967900	Key Top Cover	G3	キートップ G 3	VOICE(SAXOPHONE-SYNTHE)		05
*	290	VY969300	Key Top Cover	G4	キートップ G 4	VOICE(PERCUS.-CUSTOM)		05
*	300	VY968300	Key Top Cover	H1	キートップ H 1	SYNC,START/STOP		05
*	310	VY968400	Key Top Cover	H2	キートップ H 2	INTRO A/B-ENDING A/B		05
*	320	VY968500	Key Top Cover	H3	キートップ H 3	FADE IN/OUT		03
*	330	VY968600	Key Top Cover	H4	キートップ H 4	M.PAD BANK1-60/STOP		06
*	340	VY968700	Key Top Cover	H5	キートップ H 5	REGISTRATION MEMORY(1-8)		07
*	350	VY969000	Key Top Cover	I1	キートップ I 1	FREEZE		04
*	360	VY969100	Key Top Cover	I2	キートップ I 2	MEMORY		04
*	370	VY969200	Key Top Cover	I3	キートップ I 3	REGIST BANK 1-20(-,+)		05
*	380	VZ053400	Speaker Grill	Small	スピーカグリル (小)		2	06
*	390	XU090A00	Speaker	5.0cm 16ohm 20W	スピーカ	Tweeter	2	
	400	--	Connector Assembly	SPT	SPT束線	AM-CN6=Speaker (VY99970)		
*	430	VY974800	Circuit Board	PN1	PN1シート	(XT216C0)		
*	440	VY975100	Circuit Board	PN2	PN2シート	(XT217C0)		
	450	--	Connector Assembly	L-R1	L-R1束線	PN1-CN4=PN2-CN1 (VZ00060)		
	460	--	Connector Assembly	L-R2	L-R2束線	PN1-CN5=PN2-CN2 (VZ00070)		
	470	--	Connector Assembly	LCDC	LCDC束線	DM-CN8=PN2-CN3 (VY99870)		
	490	--	Connector Assembly	PN1	PN1束線	DM-CN12=PN1-CN1 (VY99910)		
	500	--	Connector Assembly	ES1	ES1束線	PN1-CN2=ES-CN1 (VZ00040)		
	510	--	Connector Assembly	ES2	ES2束線	PN1-CN3=ES-CN2 (VZ00050)		
*	520	VZ220600	Cloth, VR		ボリュームクロス		3	03
*	530	VY975900	Circuit Board	ES	ESシート	(XT219C0)		
*	540	VY975300	Circuit Board	VR	VRシート	(XT217C0)		
	550	--	Connector Assembly	VR	VR束線	AM-CN1=VR-CN1 (VY99950)		
	560	EP600220	Bind Head Tapping Screw-B	3.0X10 MFZN2Y	+バインドBタイト		73	01
	570	EP640130	Bind Head Tapping Screw-B	4.0X10 MFZN2Y	+バインドBタイト		4	01
*	580	VT298900	Holder(A)	MK	MK金具		4	04
*	590	V2022400	Angle Bracket	F	SP固定金具F		2	
*	600	V2022500	Angle Bracket	R	SP固定金具R		2	
	610	--	Connector Assembly	POW	POW束線	AM-CN10=POWER SW(VT35090)		
	610a	VS336700	Push Switch	SDDLB1745A	プッシュSW	STAND BY/ON		03
	620	--	Wheel Assembly		ホイールAss'y	PITCH BEND/MODULATION(VZ68460)		
*	630	VY975200	Circuit Board	HP	HPシート	(XT217C0)		
	640	--	Connector Assembly	HP-MIC	HP-MIC束線	AM-CN8=HP-CN1 (VZ80470)		
	660	VS386300	Cushion		防塵スポンジ		2	03
	670	CB825380	Push Button		プッシュボタン	STAND BY/ON		03
	680	VQ218900	Knob	V	ツマミ	MASTER VOLUME		03
*	690	V2022600	Protector Angle	PN1	PN1シート補強金具			
*	700	V2022700	Protector Angle	PN2	PN2シート補強金具			
*	710	VZ329100	Cloth, VR	(2)	ボリュームクロス 2			03
	720	VA126100	Adhesive Tape	12X50	粘着テープ		4	03

* New Parts (新規部品)

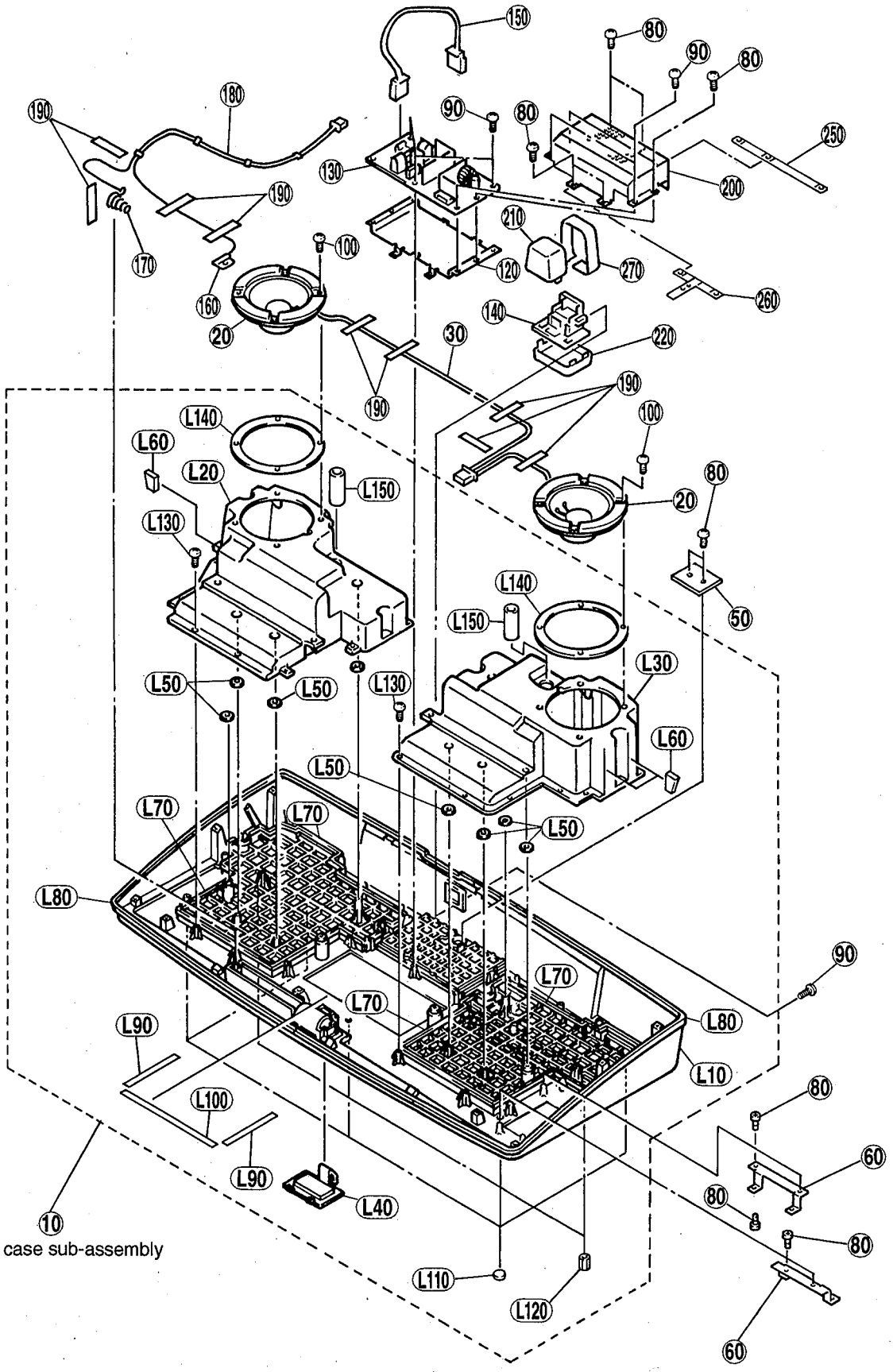
ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
730	--	Shield Sheet	B	シールドシート B	(VZ98750)		
740	--	GND Wire	(3)	アース3束線	(VZ80490)		
750	--	GND Wire	(4)	アース4束線	(VZ80500)		
760	--	GND Wire	(6)	アース6束線	(VZ80520)		
770	--	GND Wire	(7)	アース7束線	(VZ80530)		
780	--	GND Wire	(8)	アース8束線	(VZ80540)		
790	--	GND Wire	(9)	アース9束線	(VZ80550)		
800	--	Vibration-proof Tape		防振テープ D	(V202640)	2	
810	--	Vibration-proof Tape		防振テープ E	(V202650)		
820	--	Vibration-proof Tape		防振テープ F	(V202660)		
830	--	Cushion		防振フォーム M	(V203600)		
840	--	Cushion		防振フォーム K	(V202620)		
850	--	Cushion		防振フォーム C	(V201980)	4	
860	--	Cushion		防振フォーム D	(V201990)	2	
870	--	Cushion		防振フォーム E	(V202000)		
880	--	Cushion		防振フォーム F	(V202010)		
890	--	Cushion		防振フォーム G	(V202020)		
	--	WHEEL ASSEMBLY		ホイールAss'y	(VZ68460)		
W10	VF536800	Frame		フレーム		2	02
W20	VF537400	Wheel	YS200	ホイール	PITCH BEND/MODULATION	2	03
W30	VC792800	Spring		リターンSP			01
W40	CB819020	Wheel Tube		ホイールチューブ		3	04
W50	EW600110	Stop Ring	12.0	CS形止め輪			01
W60	VT695100	Rotary Variable Resistor	10.0K RK163111	ロータリーVR	PITCH BEND/MODULATION	2	03
W70	--	Connector Assembly	WL	WL束線	DM-CN10=Wheel (VY99890)		
W80	CB069250	Cord Holder	BK-1	インシュロックタイ		2	01
W110	--		BL	ビニール線	(VK88170)		
W120	--		RE	ビニール線	(VK88160)		

* New Parts（新規部品）

ランク：Japan only

■ LOWER CASE ASSEMBLY



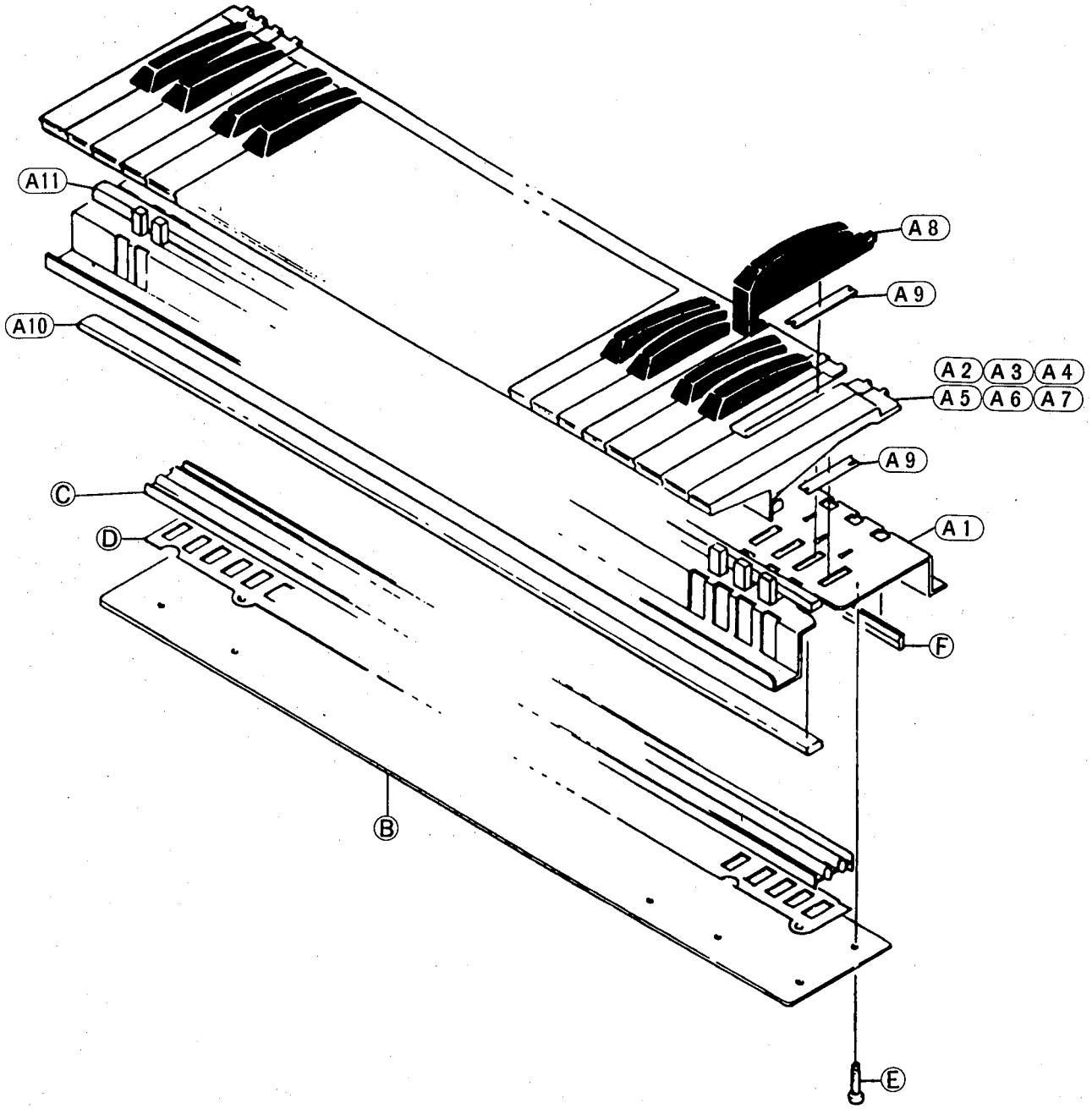
Lower case sub-assembly

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS		QTY	ランク
		LOWER CASE ASSEMBLY		下ケースAss'y	PSR-8000			
	--	Lower Case Assembly		下ケースAss'y	E,B,X	(VZ20600)		
	--	Lower Case Assembly		下ケースAss'y	U	(VZ23150)		
10	--	Lower Case Sub-assembly		下ケースサブAss'y		(VZ08720)		
* 20	XU089A00	Speaker	16.0cm 4ohm 20W	スピーカ	Woofer		2	
30	--	Connector Assembly	SPW	SPW束線	AM-CN7=Speaker	(V200450)		
* 50	VY975600	Circuit Board	AC	ACシート		(XT218C0)		
* 60	VZ047000	Angle Bracket, HDD		HDD固定金具			2	04
80	EP600250	Bind Head Tapping Screw-B	3.0X8 MFZN2Y	+バインドBタイト			12	01
90	EP600140	Bind Head Tapping Screw-B	3.0X10 MFZN2BL	+バインドBタイト			7	01
100	VR525900	Bind Head Tapping Screw-B	4.0X14 MFZN2BL	+バインドBタイト			8	01
120	--	Chassis, PS		電源シャーシ		(VT27630)		
130	VT388000	Power Supply Unit		電源ユニット	E,B,X			23
130	VT347900	Power Supply Unit		電源ユニット	U			21
140	VT388200	Circuit Board	INLET	インレットシート CE	E,B,X	(XQ666B0)		08
140	VT388100	Circuit Board	INLET	インレットシート UC	U	(XQ666B0)		08
150	--	Connector Assembly	INLET 1	インレット1束線	P.S.=AC IN.	(VT39600)		
160	BB005490	Terminal		端子板				01
170	VT276400	Spring Terminal		接点バネ				04
180	--	Connector Assembly	BAT	BAT束線	AM-CN9=Battery	(VU07100)		
190	VA126100	Adhesive Tape	12X50	粘着テープ			12	03
200	--	Cover, UL	PU	UL保護カバー		(V202950)		
210	--	Cover, UL	ACU	UL保護カバー		(VU08700)		
220	--	Cover, UL	ACL	UL保護カバー		(VU08710)		
250	--	Shield Sheet	D	シールドシート D		(VZ98770)		
260	--	Shield Sheet	E	シールドシート E		(VZ98780)		
270	--	Adhesive Tape	ECT #590S W=15	綿粘着テープ		(ZL35000)		
	--	LOWER CASE SUB ASSEMBLY		下ケースサブAss'y		(VZ08720)		
* L10	VZ031300	Lower Case		下ケース成形品				
* L20	VZ511800	Speaker Box	L	SPボックス成形品 L				
* L30	VZ512000	Speaker Box	R	SPボックス成形品 R				
L40	VJ467300	Battery Cover	A-BL	電池蓋加工品				02
L50	--	Seal	Ring	シール材		(VT39400)	8	
L60	--	Cushion	GL	緩衝フォーム		(VU12410)	4	
L70	--	Seal	10X750X2	シール材		(VT39380)	4	
L80	--	Vibration-proof Tape	12X1460X0.3	防振テープ		(VT39420)	2	
L90	--	Cushion		防振フォーム A		(VZ26110)	2	
L100	--	Cushion		防振フォーム B		(VZ26120)		
L110	CB043750	Foot	BL T1.6	ゴム脚			5	01
L120	VM625900	Nut	M5XP0.8	スクリューサートナット			2	01
L130	EP600750	Bind Head Tapping Screw-B	4.0X14 MFZN2Y	+バインドBタイト			29	01
L140	--	Cushion		フォーム材 F		(VN97670)	2	
L150	--	Port	L=68	ポート		(VZ51350)	2	

* New Parts（新規部品）

ランク：Japan only

■ KEYBOARD ASSEMBLY



REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
	VN399200	KEYBOARD ASSEMBLY	C61K6	ＬＣ鍵盤Ａｓｓ'ｙ	PSR-8000		29
A	VN405500	MK Frame Assembly	LC C61	ＭＫフレームＡｓｓ'ｙ			21
B	VI912000	Circuit Board	MK (C61)	Ｍ Ｋ シ ー ト	(XH247G0)		14
C	VF834100	Rubber Contact	LC	可動導電ゴム			09
D	VM630100	Insulation Spacer	LC	絶縁スペーサー			06
E	EP630630	Bind Head Tapping Screw-S	3.0X10 MFZN2Y	＋バインドＳタイト		16	01
F	VC079800	Stopper	LC	ス ト ッ パ ー			02
	VN405500	MK FRAME ASSEMBLY	LC C61	ＭＫフレームＡｓｓ'ｙ			21
A1	--	MK Frame	LC	ＭＫフレーム（アウトサー	(VM63000)		
A2	VL570000	White Key	ｼﾛ	白 鍵		10	03
A3	VL570100	White Key	ｼﾛ	白 鍵		5	03
A4	VL570200	White Key	ｼﾛ	白 鍵		10	03
A5	VL570300	White Key	ｼﾛ	白 鍵		5	03
A6	VL570400	White Key	ｼﾛ	白 鍵		5	03
A7	VL570500	White Key	ｼﾛ	白 鍵			03
A8	VL570600	Black Key	ｸﾛ	黒 鍵		25	03
A9	VC077600	Spring	:	バ ネ		61	01
A10	VR857100	Felt	820X6X3.6 WH	フ ェ ル ト シ ロ			03
A11	VN406100	PC Sensor	MK-LC61TO-N	Ｐ Ｃ セ ン サ ー			10

* New Parts（新規部品）

ランク：Japan only

■ ELECTRICAL PARTS

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
			ELECTRICAL PARTS		電気部品	PSR-8000		
*		VY890000	Circuit Board	AM	AMシート	(XT257C0)		
*		VZ030000	Circuit Board	DM	DMシート	(XT321C0)		
*		VY975900	Circuit Board	ES	ESシート	(XT219C0)		
*		VY975200	Circuit Board	HP	HPシート	(XT217C0)		
		VT388200	Circuit Board	INLET	インレットシート CE	E,B,X (XQ666B0)		08
		VT388100	Circuit Board	INLET	インレットシート UC	U (XQ666B0)		08
		VY638900	Circuit Board	INV	INVシート	(XT122A0)		13
*		VY975500	Circuit Board	JACK	JACKシート	(XT218C0)		
*		VY975600	Circuit Board	AC	ACシート	(XT218C0)		
		VI912000	Circuit Board	MK (C61)	MKシート	(XH247G0)		14
*		VY974800	Circuit Board	PN1	PN1シート	(XT216C0)		
*		VY975100	Circuit Board	PN2	PN2シート	(XT217C0)		
*		VZ030200	Circuit Board	ROM	ROMシート	(XT322C0)		
		--	Circuit Board	RY	RYシート	(V000980,XU415A0)		
*		VY975300	Circuit Board	VR	VRシート	(XT217C0)		
*		VY890000	Circuit Board	AM	AMシート	(XT257C0)		
	IC1	XB247A00	IC	UPC4570HA	IC	OP AMP		01
	IC2	XB247A00	IC	UPC4570HA	IC	OP AMP		01
	IC3	XB247A00	IC	UPC4570HA	IC	OP AMP		01
⚠	IC4	XH526A00	IC	PQ12RF1	IC	REGULATOR		03
	IC5	XE470A00	IC	M51132L	IC	VCA		04
	IC6	XB247A00	IC	UPC4570HA	IC	OP AMP		01
⚠	IC7	XE436A00	IC	NJM79M05FA	IC	REGULATOR -5V		03
⚠	IC8	XR236A00	IC	MM1025AFB	IC	BACK UP		04
	IC9	XQ619A00	IC	LA4705NA	IC	POWER AMP		05
	IC10	XF751A00	IC	M5227P	IC	EQUALIZER		04
	IC11	XF751A00	IC	M5227P	IC	EQUALIZER		04
	IC12	XL273A00	IC	PST-572D	IC	RESET		02
	TR1	IG174070	Transistor	2SC1740S R,S	トランジスタ			01
	TR2	IG174070	Transistor	2SC1740S R,S	トランジスタ			01
	TR3	IG174070	Transistor	2SC1740S R,S	トランジスタ			01
	TR4	IA093320	Transistor	2SA933S Q,R	トランジスタ			01
⚠	TR5	VS883400	Transistor	2SD2394 E,F	トランジスタ			01
⚠	TR8	VS883300	Transistor	2SB1565 E,F	トランジスタ			01
	D1	VB941200	Diode	1SS133,1SS176	ダイオード			01
	D2	VB941200	Diode	1SS133,1SS176	ダイオード			01
	D3	VB941200	Diode	1SS133,1SS176	ダイオード			01
	D4	VB941200	Diode	1SS133,1SS176	ダイオード			01
	D5	VB941200	Diode	1SS133,1SS176	ダイオード			01
⚠	D6	VB481900	Diode	11ES4	ダイオード			01
⚠	D7	VB481900	Diode	11ES4	ダイオード			01
	FT1	IE101250	FET	2SK105 E,F	FET			01
	FT2	IE101250	FET	2SK105 E,F	FET			01
	FT3	IE101250	FET	2SK105 E,F	FET			01
	FT4	IE101250	FET	2SK105 E,F	FET			01
	VR1	VV049200	Rotary Variable Resistor	B 10K RK09K12A0	二連ロータリーVR	TRIM MIN/MAX		03
	WB1	GE300670	Ferrite Bead	BL02RN-R62T4	フェライトビーズ			02
	RY1	VM640200	Relay	DC RY 12W-OH-K	リレー 12V			05
	RY1	--	Relay	DC MR82-12USR	リレー 12V	(VZ05750)		
	L1	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L1	VF968800	Coil	SBT-0260TF 60uH	コイル SB 60uH			01
	L3	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L3	VF968800	Coil	SBT-0260TF 60uH	コイル SB 60uH			01
	L4	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L4	VF968800	Coil	SBT-0260TF 60uH	コイル SB 60uH			01
	L5	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L5	VF968800	Coil	SBT-0260TF 60uH	コイル SB 60uH			01
	L6	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L6	VF968800	Coil	SBT-0260TF 60uH	コイル SB 60uH			01
	L7	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L7	VF968800	Coil	SBT-0260TF 60uH	コイル SB 60uH			01
	L8	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L8	VF968800	Coil	SBT-0260TF 60uH	コイル SB 60uH			01
	L9	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L9	VF968800	Coil	SBT-0260TF 60uH	コイル SB 60uH			01
	L10	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L10	VF968800	Coil	SBT-0260TF 60uH	コイル SB 60uH			01
	L11	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
L11	VF968800	Coil	SBT-0260TF 60uH	コイル SB 60uH			01
L12	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
L12	VF968800	Coil	SBT-0260TF 60uH	コイル SB 60uH			01
C1	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C2	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C2	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C3	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C3	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C4	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C4	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C5	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン			01
C6	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン			01
C7	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン			01
C8	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C8	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C9	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン			01
C10	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン			01
C11	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン			01
C12	FG652150	Ceramic Capacitor-SL	150P 50V J	セラコン(SL)			01
C13	FG652150	Ceramic Capacitor-SL	150P 50V J	セラコン(SL)			01
C14	UJ866470	Electrolytic Cap.	4.70 50.0V	ケミコン			01
C15	UJ866470	Electrolytic Cap.	4.70 50.0V	ケミコン			01
C16	FG652100	Ceramic Capacitor-SL	100P 50V J	セラコン(SL)			01
C17	FG652100	Ceramic Capacitor-SL	100P 50V J	セラコン(SL)			01
C18	UJ865470	Electrolytic Cap.	0.47 50.0V	ケミコン			01
C19	UJ866470	Electrolytic Cap.	4.70 50.0V	ケミコン			01
C20	UJ866470	Electrolytic Cap.	4.70 50.0V	ケミコン			01
C21	UJ866470	Electrolytic Cap.	4.70 50.0V	ケミコン			01
C22	UJ866470	Electrolytic Cap.	4.70 50.0V	ケミコン			01
C23	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン			01
C24	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン			01
C25	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C25	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C26	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C26	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C27	FG651680	Ceramic Capacitor-SL	68P 50V J	セラコン(SL)			01
C28	FG651680	Ceramic Capacitor-SL	68P 50V J	セラコン(SL)			01
C29	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C29	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C30	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C30	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C31	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C31	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C32	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C32	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C33	UJ848100	Electrolytic Cap.	100.00 25.0V	ケミコン			01
C34	UJ866470	Electrolytic Cap.	4.70 50.0V	ケミコン			01
C35	UJ866470	Electrolytic Cap.	4.70 50.0V	ケミコン			01
C36	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C36	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C37	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C37	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C38	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C38	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C39	UJ838470	Electrolytic Cap.	470.00 16.0V	ケミコン			01
C40	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C40	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C45	UJ866470	Electrolytic Cap.	4.70 50.0V	ケミコン			01
C48	UJ838470	Electrolytic Cap.	470.00 16.0V	ケミコン			01
C49	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C49	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C50	UJ828220	Electrolytic Cap.	220.00 10.0V	ケミコン			01
C51	UJ866470	Electrolytic Cap.	4.70 50.0V	ケミコン			01
C52	UJ837220	Electrolytic Cap.	22.00 16.0V	ケミコン			01
C53	FG613220	Ceramic Capacitor-B	2200P 50V K	セラコン(B)			01
C54	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C54	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C55	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C55	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C56	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
C56	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C57	FG652150	Ceramic Capacitor-SL	150P 50V J	セラコン（SL）			01
C58	FG652150	Ceramic Capacitor-SL	150P 50V J	セラコン（SL）			01
C59	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C59	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C60	FG613220	Ceramic Capacitor-B	2200P 50V K	セラコン（B）			01
C61	UJ749470	Electrolytic Cap.	4700 25.0V	ケミコン			03
C62	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン			01
C63	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン			01
C64	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン			01
C65	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン			01
C66	UJ848470	Electrolytic Cap.	470.00 25.0V	ケミコン			01
C67	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン			01
C68	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン			01
C69	UJ749220	Electrolytic Cap.	2200 25.0V	ケミコン			03
C70	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C70	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C71	UJ758470	Electrolytic Cap.	470.00 35.0V	ケミコン			01
C72	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C72	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
⚠ C73	FI383220	Capacitor	2200P 400V U.C.S.V	規格認定コン			01
C74	FG612680	Ceramic Capacitor-B	680P 50V K	セラコン B			
C75	FG612680	Ceramic Capacitor-B	680P 50V K	セラコン B			
C76	UJ866100	Electrolytic Cap.	1.00 50.0V	ケミコン			01
C77	UJ866100	Electrolytic Cap.	1.00 50.0V	ケミコン			01
C78	UJ838100	Electrolytic Cap.	100.00 16.0V	ケミコン			01
C79	UJ837330	Electrolytic Cap.	33.00 16.0V	ケミコン			01
C81	UJ865470	Electrolytic Cap.	0.47 50.0V	ケミコン			01
C82	UJ837100	Electrolytic Cap.	10.00 16.0V	ケミコン			01
C83	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C83	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C84	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C84	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C85	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C85	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C86	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C86	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C87	VR168700	Monolithic Mylar Capacitor	ECQ-V1H224JL3	積層マイラーコン			01
C88	VR168700	Monolithic Mylar Capacitor	ECQ-V1H224JL3	積層マイラーコン			01
C89	VR168700	Monolithic Mylar Capacitor	ECQ-V1H224JL3	積層マイラーコン			01
C90	VR168700	Monolithic Mylar Capacitor	ECQ-V1H224JL3	積層マイラーコン			01
C91	UJ847100	Electrolytic Cap.	10.00 25.0V	ケミコン			01
C92	VR168700	Monolithic Mylar Capacitor	ECQ-V1H224JL3	積層マイラーコン			01
C93	VR168700	Monolithic Mylar Capacitor	ECQ-V1H224JL3	積層マイラーコン			01
C95	VR168700	Monolithic Mylar Capacitor	ECQ-V1H224JL3	積層マイラーコン			01
C96	VR168700	Monolithic Mylar Capacitor	ECQ-V1H224JL3	積層マイラーコン			01
C97	VQ758500	Electrolytic Cap.-BP	1.50UF 50.0V	BPケミコン			01
C98	VQ758500	Electrolytic Cap.-BP	1.50UF 50.0V	BPケミコン			01
C99	VE327200	Monolithic Mylar Capacitor	1.0 50V J	積層マイラーコン			02
C100	VR168900	Monolithic Mylar Capacitor	ECQ-V1H274JL3	積層マイラーコン			01
C101	VR168300	Monolithic Mylar Capacitor	ECQ-V1H104JL3	積層マイラーコン			01
C102	UA354330	Mylar Capacitor	0.0330 50V J	マイラーコン			01
C104	VR169500	Monolithic Mylar Capacitor	ECQ-V1H824JL3	積層マイラーコン			
C105	UA354680	Mylar Capacitor	0.0680 50V J	マイラーコン			01
C106	UA354220	Mylar Capacitor	0.0220 50V J	マイラーコン			
C107	UA353270	Mylar Capacitor	2700P 50V J	マイラーコン			01
C109	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C109	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
C110	FG613100	Ceramic Capacitor-B	1000P 50V K	セラコン B			01
C111	UJ837470	Electrolytic Cap.	47.00 16.0V	ケミコン			01
C112	VE327200	Monolithic Mylar Capacitor	1.0 50V J	積層マイラーコン			02
C113	VR168900	Monolithic Mylar Capacitor	ECQ-V1H274JL3	積層マイラーコン			01
C114	VR168300	Monolithic Mylar Capacitor	ECQ-V1H104JL3	積層マイラーコン			01
C115	UA354330	Mylar Capacitor	0.0330 50V J	マイラーコン			01
C117	VR169500	Monolithic Mylar Capacitor	ECQ-V1H824JL3	積層マイラーコン			
C118	UA354680	Mylar Capacitor	0.0680 50V J	マイラーコン			01
C119	UA354220	Mylar Capacitor	0.0220 50V J	マイラーコン			
C120	UA353270	Mylar Capacitor	2700P 50V J	マイラーコン			01
C122	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C122	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
C123	FG613100	Ceramic Capacitor-B	1000P 50V K	セラコン B			01
C124	UJ837470	Electrolytic Cap.	47.00 16.0V	ケミコン			01
C125	UJ837470	Electrolytic Cap.	47.00 16.0V	ケミコン			01
C128	UJ866100	Electrolytic Cap.	1.00 50.0V	ケミコン			01
C129	UJ866100	Electrolytic Cap.	1.00 50.0V	ケミコン			01
C132	UJ828220	Electrolytic Cap.	220.00 10.0V	ケミコン			01
C133	UJ866100	Electrolytic Cap.	1.00 50.0V	ケミコン			01
C134	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C134	VD930900	Semiconductive Cera. Cap.	0.1000 25V M	半導体セラコン			01
⚠ FR1	HW394100	Fuse Resistor	10.0 1/4 J	ヒューズ抵抗			02
R1	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R2	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R3	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R4	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R5	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R6	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R9	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
R10	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
R11	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
R12	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
R13	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R14	HF757680	Carbon Resistor	68.0K 1/4 J	カーボン抵抗			01
R15	HF755680	Carbon Resistor	680.0 1/4 J	カーボン抵抗			01
R16	HF755680	Carbon Resistor	680.0 1/4 J	カーボン抵抗			01
R17	HF757390	Carbon Resistor	39.0K 1/4 J	カーボン抵抗			01
R18	HF757390	Carbon Resistor	39.0K 1/4 J	カーボン抵抗			01
R19	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
R20	HF758220	Carbon Resistor	220.0K 1/4 J	カーボン抵抗			01
R21	HF758220	Carbon Resistor	220.0K 1/4 J	カーボン抵抗			01
R22	HF757220	Carbon Resistor	22.0K 1/4 J	カーボン抵抗			01
R23	HF757220	Carbon Resistor	22.0K 1/4 J	カーボン抵抗			01
R24	HF758100	Carbon Resistor	100.0K 1/4 J	カーボン抵抗			01
R25	HF758100	Carbon Resistor	100.0K 1/4 J	カーボン抵抗			01
R26	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R27	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R28	HF757180	Carbon Resistor	18.0K 1/4 J	カーボン抵抗			01
R29	HF757180	Carbon Resistor	18.0K 1/4 J	カーボン抵抗			01
R30	HF755220	Carbon Resistor	220.0 1/4 J	カーボン抵抗			01
R31	HF757150	Carbon Resistor	15.0K 1/4 J	カーボン抵抗			01
R32	HF757150	Carbon Resistor	15.0K 1/4 J	カーボン抵抗			01
R33	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R34	HF757680	Carbon Resistor	68.0K 1/4 J	カーボン抵抗			01
R35	HF757680	Carbon Resistor	68.0K 1/4 J	カーボン抵抗			01
R36	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
R37	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R38	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R39	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R41	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R43	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R44	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R47	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
R48	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R49	HF757150	Carbon Resistor	15.0K 1/4 J	カーボン抵抗			01
R50	HF757150	Carbon Resistor	15.0K 1/4 J	カーボン抵抗			01
R51	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
R52	HF756330	Carbon Resistor	3.3K 1/4 J	カーボン抵抗			01
R53	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
R54	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R55	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R56	HF758220	Carbon Resistor	220.0K 1/4 J	カーボン抵抗			01
R57	HF758220	Carbon Resistor	220.0K 1/4 J	カーボン抵抗			01
R58	HF757220	Carbon Resistor	22.0K 1/4 J	カーボン抵抗			01
R59	HF757220	Carbon Resistor	22.0K 1/4 J	カーボン抵抗			01
R60	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R61	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R64	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
R65	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
R66	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R70	VP939600	Metal Film Resistor	2.2 1/0 J	金属被膜抵抗			
R71	VP939600	Metal Film Resistor	2.2 1/0 J	金属被膜抵抗			

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
R72	VP939600	Metal Film Resistor	2.2 1/0 J	金属被膜抵抗			
R73	VP939600	Metal Film Resistor	2.2 1/0 J	金属被膜抵抗			
R74	HF757470	Carbon Resistor	47.0K 1/4 J	カーボン抵抗			01
R75	HF757150	Carbon Resistor	15.0K 1/4 J	カーボン抵抗			01
R76	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
R77	HF756180	Carbon Resistor	1.8K 1/4 J	カーボン抵抗			01
R78	HF756120	Carbon Resistor	1.2K 1/4 J	カーボン抵抗			01
R80	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
R81	HF757180	Carbon Resistor	18.0K 1/4 J	カーボン抵抗			01
R82	HF757150	Carbon Resistor	15.0K 1/4 J	カーボン抵抗			01
R83	HF757150	Carbon Resistor	15.0K 1/4 J	カーボン抵抗			01
R85	HF756270	Carbon Resistor	2.7K 1/4 J	カーボン抵抗			01
R86	HF757150	Carbon Resistor	15.0K 1/4 J	カーボン抵抗			01
R87	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
R88	HF756180	Carbon Resistor	1.8K 1/4 J	カーボン抵抗			01
R89	HF756120	Carbon Resistor	1.2K 1/4 J	カーボン抵抗			01
R91	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
R92	HF757180	Carbon Resistor	18.0K 1/4 J	カーボン抵抗			01
R93	HF757150	Carbon Resistor	15.0K 1/4 J	カーボン抵抗			01
R94	HF757150	Carbon Resistor	15.0K 1/4 J	カーボン抵抗			01
R96	HF756270	Carbon Resistor	2.7K 1/4 J	カーボン抵抗			01
R97	HF758100	Carbon Resistor	100.0K 1/4 J	カーボン抵抗			01
R98	HF758100	Carbon Resistor	100.0K 1/4 J	カーボン抵抗			01
R99	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R102	HF758100	Carbon Resistor	100.0K 1/4 J	カーボン抵抗			01
R103	HF758100	Carbon Resistor	100.0K 1/4 J	カーボン抵抗			01
R104	HF758100	Carbon Resistor	100.0K 1/4 J	カーボン抵抗			01
R105	HF758100	Carbon Resistor	100.0K 1/4 J	カーボン抵抗			01
R106	HF755100	Carbon Resistor	100.0 1/4 J	カーボン抵抗			01
R107	HF756270	Carbon Resistor	2.7K 1/4 J	カーボン抵抗			01
R108	HF756270	Carbon Resistor	2.7K 1/4 J	カーボン抵抗			01
R109	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
JK1	LB101870	Phone Jack	YKB21-5006	ホーンコネクタ	LOOP SEND(L/L+R)		03
JK2	VB312600	Phone Jack	YKB21-5012	ホーンコネクタ（黒）	LOOP SEND(R)		02
JK3	VC687500	Phone Jack	YKB21-5014	ホーンコネクタ（黒）	AUX IN(L/L+R)		01
JK4	VB312600	Phone Jack	YKB21-5012	ホーンコネクタ（黒）	AUX IN(R)		02
JK5	VC687500	Phone Jack	YKB21-5014	ホーンコネクタ（黒）	AUX OUT(L/L+R)		01
JK6	VB312600	Phone Jack	YKB21-5012	ホーンコネクタ（黒）	AUX OUT(R)		02
CB1	---	Spacer	A	防振スペーサーA	(VT95220)		
CB2	---	Spacer	B	防振スペーサーB	(VT96760)		
CB3	CB069250	Cord Holder	BK-1	インシュロックタイ			01
CN1	VB389900	Connector Base Post	PH- 3P TE	コネクタベースポスト	to VR-CN1		01
CN2	VB390200	Connector Base Post	PH- 6P TE	コネクタベースポスト	to DM-CN5		01
CN3	VF283400	Connector Base Post	PH-16P TE	コネクタベースポスト	to DM-CN6		01
CN4	LB918040	Base Post Connector	XH- 4P TE	ベースツキポスト	to DM-CN7/FDD		01
CN5	LB918020	Base Post Connector	XH- 2P TE	ベースツキポスト	to INV-CN1		01
CN6	VB390000	Connector Base Post	PH- 4P TE	コネクタベースポスト	to Seaker 1,Speaker 2		01
CN7	LB919040	Base Post Connector	XH- 4P SE	ベースツキポスト	to Speaker 3,Speaker 4		01
CN8	LB918050	Base Post Connector	XH- 5P TE	ベースツキポスト	to HP-CN1		01
CN9	LB919020	Base Post Connector	XH- 2P SE	ベースツキポスト	to Battery		01
CN10	LB932020	Base Post Connector	VH- 2P TE	ベースポスト	to POWER SW.		01
CN11	LB918150	Base Post Connector	XH-15P TE	ベースツキポスト	to Power Supply-P101		02
	EX001020	Bind Head Screw	3.0X8 MFZN2Y	+バインド小ネジ			01
	EP600220	Bind Head Tapping Screw-B	3.0X10 MFZN2Y	+バインドBタイト			01
	V1549000	U-shaped Holder	MET41-0191	U字金具			01
	---	Jack Angle	A	ジャック金具A	(VZ05370)		
	---	Heat Sink		放熱器	(VF33610)		
	---	Heat Sink	30BS172H-L40-T	放熱板	(VT34760)		
	---	Heat Sink	30BS130H-L30	放熱板	(VT70260)		
	VD041700	Jumper Wire	0.55	ジャンパー線			
	---	Wire	1	線材1	(VZ19650)		
	---	Wire	2	線材2	(VZ19660)		
	---	Wire	3	線材3	(V204460)		
	---	Wire	4	線材4	(V204470)		
	---	Wire	5	線材5	(V204480)		
*	VZ030000	Circuit Board	DM	DMシート	(XT321C0)		
* IC1	XU151100	IC	SH7043	IC	MAIN CPU		12
IC2	XS725A00	IC	TC203C760HF-002	IC	SWP30B		19
IC3	XT013A00	IC	YSS236-F	IC	VOP3		13

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
IC4	XQ650B00	IC	HD63B05V0E90F	IC	CPU		06
IC5	XQ595A00	IC	SED1335F0B	IC	LCDC		08
IC6	X1939A00	IC	HD63266F	IC	FDC		09
IC7	XS762A00	IC	UPD71051GU-10-E2	IC	SERIAL CONTROLLER		06
IC8	XQ586A00	IC	KM416C256BLT-7	IC	DRAM 4M		16
IC8	XS438A00	IC	M5M44260CTP-7	IC	SRAM		16
IC8	XT776A00	IC	UPD424260G5-70	IC	DRAM 4M		16
IC9	XQ586A00	IC	KM416C256BLT-7	IC	DRAM 4M		16
IC9	XS438A00	IC	M5M44260CTP-7	IC	SRAM		16
IC9	XT776A00	IC	UPD424260G5-70	IC	DRAM 4M		16
IC10	XM901B00	IC	HM628128BLFP-7SL	IC	PSRAM 1M		12
IC10	XS681A00	IC	M5M51008BFP-70LLT	IC	SRAM 1M		11
IC11	XM901B00	IC	HM628128BLFP-7SL	IC	PS RAM 1M		12
IC11	XS681A00	IC	M5M51008BFP-70LLT	IC	SRAM 1M		11
IC12	XM901B00	IC	HM628128BLFP-7SL	IC	PS RAM 1M		12
IC12	XS681A00	IC	M5M51008BFP-70LLT	IC	SRAM 1M		11
IC13	XM901B00	IC	HM628128BLFP-7SL	IC	PS RAM 1M		12
IC13	XS681A00	IC	M5M51008BFP-70LLT	IC	SRAM 1M		11
IC14	XQ586A00	IC	KM416C256BLT-7	IC	DRAM 4M		16
IC14	XS438A00	IC	M5M44260CTP-7	IC	SRAM 4M		16
IC14	XT776A00	IC	UPD424260G5-70	IC	DRAM 4M		16
IC15	XQ586A00	IC	KM416C256BLT-7	IC	DRAM 4M		16
IC15	XS438A00	IC	M5M44260CTP-7	IC	SRAM 4M		16
IC15	XT776A00	IC	UPD424260G5-70	IC	DRAM 4M		16
IC16	XD660A00	IC	TC74HCU04AF-TP1	IC	INVERTER		01
IC17	XC726A00	IC	SN74HC74NSR	IC	DFF		01
IC17	XP003A00	IC	TC74HC74AF	IC	DFF		01
* IC18	XT789A00	IC	SN74HC27NS	IC	NOR		01
IC19	XS370A00	IC	D65621GF-028-3B9	IC	SMI		06
IC20	XQ586A00	IC	KM416C256BLT-7	IC	DRAM 4M		16
IC20	XS438A00	IC	M5M44260CTP-7	IC	SRAM 4M		16
IC20	XT776A00	IC	UPD424260G5-70	IC	DRAM 4M		16
IC21	XQ586A00	IC	KM416C256BLT-7	IC	DRAM 4M		16
IC21	XS438A00	IC	M5M44260CTP-7	IC	SRAM 4M		16
IC21	XT776A00	IC	UPD424260G5-70	IC	DRAM 4M		16
IC22	XP253A00	IC	HY62256ALJ-70	IC	SRAM 256K		08
IC22	XS544A00	IC	W24257S-70LL	IC	SRAM 256K		07
IC23	XR380A00	IC	AK5390-VS-E1	IC	ADC		14
IC24	XP551A00	IC	PCM1702U	IC	DAC		08
IC25	XP551A00	IC	PCM1702U	IC	DAC		08
IC26	XS048A00	IC	HD74LVC139FPEL	IC	DECODER		03
IC27	XT015A00	IC	TC74VHC138F	IC	DECODER		02
IC28	XS048A00	IC	HD74LVC139FPEL	IC	DECODER		03
IC29	XL092A00	IC	HD74HC04FPEL	IC	INVERTER		01
IC29	XL980A00	IC	TC74HC04AF	IC	INVERTER		01
IC30	XM332A00	IC	TC74VHC04F	IC	INVERTER		01
IC31	XF291A00	IC	UPC4570G2	IC	OP AMP		03
IC32	XF291A00	IC	UPC4570G2	IC	OP AMP		03
IC33	XF291A00	IC	UPC4570G2	IC	OP AMP		03
IC34	XF291A00	IC	UPC4570G2	IC	OP AMP		03
IC35	VV335600	Quartz Crystal Unit	33.8688M DSO751S	水晶発振器			06
IC36	XP226A00	IC	IC-PST591DMT	IC	RESET		03
IC37	XP771A00	IC	AN79L18	IC	REGULATOR -18V		02
IC38	XS516A00	IC	UPC2933T	IC	REGULATOR 3.3V		03
IC39	XT487A00	IC	TC74VHC245F	IC	BUFFER		03
IC40	XR337A00	IC	TC74VHC32F-TEL	IC	OR		01
IC41	XT487A00	IC	TC74VHC245F	IC	BUFFER		03
IC42	XT487A00	IC	TC74VHC245F	IC	BUFFER		03
IC43	XT487A00	IC	TC74VHC245F	IC	BUFFER		03
* IC44	XT475A00	IC	TC74VHC157F(EL)	IC	DATA SELECTOR		02
IC45	XD838A00	IC	SN74HC245NSR	IC	BUFFER		04
IC45	XS720A00	IC	TC74HC245AF	IC	BUFFER		03
IC46	XT014A00	IC	TC74VHC08F	IC	AND		01
IC47	XE470A00	IC	M51132L	IC	VCA		04
IC48	XT487A00	IC	TC74VHC245F	IC	BUFFER		03
IC49	XT487A00	IC	TC74VHC245F	IC	BUFFER		03
IC50	XT487A00	IC	TC74VHC245F	IC	BUFFER		03
IC51	XT487A00	IC	TC74VHC245F	IC	BUFFER		03
IC52	XT487A00	IC	TC74VHC245F	IC	BUFFER		03
IC53	XT487A00	IC	TC74VHC245F	IC	BUFFER		03

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
IC54	XT487A00	IC	TC74VHC245F	I C	BUFFER		03
IC55	XT487A00	IC	TC74VHC245F	I C	BUFFER		03
IC56	XT487A00	IC	TC74VHC245F	I C	BUFFER		03
IC57	XF483A00	IC	LB1443N	I C	LEVEL METER DRIVER		02
* IC59	XT812A00	IC	TC74VHC11F(EL)	I C	INVERTER		01
TM1	VS696900	Thermistor	ERTD2ZGJ202T 2K	サーミスタ			01
TR1	VJ927100	Transistor	2SC2712 Y	トランジスタ			01
TR1	VQ395500	Transistor	2SC2462LCTR C	トランジスタ			01
TR2	VJ927200	Transistor	2SA1162 O,Y	トランジスタ			01
TR3	VI242900	Transistor	2SA1020-Y(TPE6) Y	トランジスタ			01
TR4	VJ927100	Transistor	2SC2712 Y	トランジスタ			01
TR4	VQ395500	Transistor	2SC2462LCTR C	トランジスタ			01
D1	VB493900	Diode	MA221	ダイオード			01
D2	VB493900	Diode	MA221	ダイオード			01
* ZD1	VV657500	Zener Diode	RLZ4.3B 4.3V	ツェナーダイオード			01
* ZD2	VV657500	Zener Diode	RLZ4.3B 4.3V	ツェナーダイオード			01
* CL01	VY681200	Ceramic Resonator	8M CSTCC8.00MG	セラミック発振子			01
CL02	VQ274900	Ceramic Resonator	16M CSACS16.00MX24	セラミック振動子			03
CL03	VV878500	Ceramic Resonator	CSTCS10.0MT	セラミック振動子			02
CR01	VV762900	Quartz Crystal Unit	7M SMD-49	水晶振動子			03
EMI1	FZ006970	LC Filter	LS MT Y223NB	LCフィルターEMI			02
L01	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L02	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L03	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L04	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L05	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L06	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L07	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L08	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L09	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L11	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L12	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L13	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L14	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L15	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L16	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L17	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L18	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L19	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L20	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L21	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L22	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L23	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L24	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L25	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L26	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L27	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L28	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L29	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L30	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L31	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L32	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L33	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L34	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L35	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L36	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
L37	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ			01
C1	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
C2	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C3	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C4	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C5	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C6	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C7	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C8	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C9	US061270	Ceramic Capacitor-CH (chip	27P 50V J	チップセラ CH			01
C10	US061270	Ceramic Capacitor-CH (chip	27P 50V J	チップセラ CH			01
C11	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
C12	US062470	Ceramic Capacitor-SL (chip	470P 50V J	チップセラ SL			01
C13	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
C14	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
C15	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
C16	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
C17	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C18	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
C19	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
C20	US062100	Ceramic Capacitor-SL (chip	100P 50V J	チップセラ SL			01
C21	US062100	Ceramic Capacitor-SL (chip	100P 50V J	チップセラ SL			01
C22	US062100	Ceramic Capacitor-SL (chip	100P 50V J	チップセラ SL			01
C23	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C24	UF046470	Electrolytic Cap. (chip)	4.7 25V	チップケミコン			01
C25	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C26	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C27	US062100	Ceramic Capacitor-SL (chip	100P 50V J	チップセラ SL			01
C28	US062100	Ceramic Capacitor-SL (chip	100P 50V J	チップセラ SL			01
C29	UE166470	Electrolytic Cap.-BP (chip	4.7 50V RV2BP	チップBPコン			01
C30	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C31	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C32	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C33	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C34	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C35	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C36	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
C37	UF046470	Electrolytic Cap. (chip)	4.7 25V	チップケミコン			01
C38	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C40	US062100	Ceramic Capacitor-SL (chip	100P 50V J	チップセラ SL			01
C41	UF046470	Electrolytic Cap. (chip)	4.7 25V	チップケミコン			01
C42	UF037100	Electrolytic Cap. (chip)	10 16V	チップケミコン			01
C43	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C44	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C45	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C46	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C47	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C48	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C49	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C50	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C51	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C52	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C53	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
C54	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C55	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
C56	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C57	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C58	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C59	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C60	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C61	UF046470	Electrolytic Cap. (chip)	4.7 25V	チップケミコン			01
C62	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C63	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C64	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C65	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C66	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C67	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C68	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C69	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C70	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C71	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C72	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C73	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C74	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C75	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
C76	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C77	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C78	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C79	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C80	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C81	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C82	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C83	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C84	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
C85	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C86	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C87	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
C88	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C89	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C90	UF066100	Electrolytic Cap. (chip)	1 50V	チップケミコン			01
C91	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C92	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C93	UF037100	Electrolytic Cap. (chip)	10 16V	チップケミコン			01
C94	US062100	Ceramic Capacitor-SL (chip	100P 50V J	チップセラ SL			01
C95	US062100	Ceramic Capacitor-SL (chip	100P 50V J	チップセラ SL			01
C96	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C97	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
* C100	US062150	Ceramic Capacitor-SL (chip	150P 50V J	チップセラ SL			01
* C101	US062150	Ceramic Capacitor-SL (chip	150P 50V J	チップセラ SL			01
* C102	US063680	Ceramic Capacitor-B (chip)	6800P 50V K	チップセラ B			01
C103	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
C104	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
C105	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
C106	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
C107	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
C108	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
C109	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
C110	UF037100	Electrolytic Cap. (chip)	10 16V	チップケミコン			01
C111	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
C112	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
C113	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
C114	UF037100	Electrolytic Cap. (chip)	10 16V	チップケミコン			01
C115	UF037100	Electrolytic Cap. (chip)	10 16V	チップケミコン			01
C116	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C117	UF037100	Electrolytic Cap. (chip)	10 16V	チップケミコン			01
C118	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C119	US062100	Ceramic Capacitor-SL (chip	100P 50V J	チップセラ SL			01
C120	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C121	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C122	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C123	UF037100	Electrolytic Cap. (chip)	10 16V	チップケミコン			01
C124	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C125	UF066330	Electrolytic Cap. (chip)	3.3 50V	チップケミコン			01
C126	UF065100	Electrolytic Cap. (chip)	0.1 50V	チップケミコン			01
C127	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C128	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C129	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
C130	US061150	Ceramic Capacitor-CH (chip	15P 50V J	チップセラ CH			01
C131	US061150	Ceramic Capacitor-CH (chip	15P 50V J	チップセラ CH			01
C132	UF046470	Electrolytic Cap. (chip)	4.7 25V	チップケミコン			01
C133	UF046470	Electrolytic Cap. (chip)	4.7 25V	チップケミコン			01
C134	UF046470	Electrolytic Cap. (chip)	4.7 25V	チップケミコン			01
C135	UF046470	Electrolytic Cap. (chip)	4.7 25V	チップケミコン			01
C136	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C137	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
C138	UF046470	Electrolytic Cap. (chip)	4.7 25V	チップケミコン			01
C139	UF027220	Electrolytic Cap. (chip)	22 10V	チップケミコン			01
* C140	UF028100	Electrolytic Cap. (chip)	100 10V	チップケミコン			01
* C141	UF028100	Electrolytic Cap. (chip)	100 10V	チップケミコン			01
C142	UF046470	Electrolytic Cap. (chip)	4.7 25V	チップケミコン			01
C143	UF027220	Electrolytic Cap. (chip)	22 10V	チップケミコン			01
* C144	UF028100	Electrolytic Cap. (chip)	100 10V	チップケミコン			01
C145	UF046470	Electrolytic Cap. (chip)	4.7 25V	チップケミコン			01
* C146	UF028100	Electrolytic Cap. (chip)	100 10V	チップケミコン			01
C147	US062680	Ceramic Capacitor-SL (chip	680P 50V J	チップセラ SL			01
C148	US063220	Ceramic Capacitor-B (chip)	2200P 50V K	チップセラ B			01
C149	US063120	Ceramic Capacitor-B (chip)	1200P 50V K	チップセラ B			01
C150	US062330	Ceramic Capacitor-SL (chip	330P 50V J	チップセラ SL			01
C151	UE166470	Electrolytic Cap.-BP (chip	4.7 50V RV2BP	チップBPコン			01
C152	US062680	Ceramic Capacitor-SL (chip	680P 50V J	チップセラ SL			01
C153	US063220	Ceramic Capacitor-B (chip)	2200P 50V K	チップセラ B			01
C154	US063120	Ceramic Capacitor-B (chip)	1200P 50V K	チップセラ B			01
C155	US062330	Ceramic Capacitor-SL (chip	330P 50V J	チップセラ SL			01
C156	UE166470	Electrolytic Cap.-BP (chip	4.7 50V RV2BP	チップBPコン			01

* New Parts（新規部品）

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	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
	C157	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
	C158	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
	C159	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
	C160	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
	C161	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C162	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C163	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
	C164	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
*	C165	UF028100	Electrolytic Cap. (chip)	100 10V	チップケミコン			01
*	C166	UF028100	Electrolytic Cap. (chip)	100 10V	チップケミコン			01
	C167	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C168	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
*	C169	UF128470	Electrolytic Cap. (chip)	470 10V UUR1A4	チップケミコン			02
	C170	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C171	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
	C172	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
	C173	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C174	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
	C175	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
	C176	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C177	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C178	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C179	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C180	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C181	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C182	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C183	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C184	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C185	US062270	Ceramic Capacitor-SL (chip)	270P 50V J	チップセラ SL			01
	C186	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C187	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
	C188	UF027220	Electrolytic Cap. (chip)	22 10V	チップケミコン			01
	C189	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C190	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C191	UF037220	Electrolytic Cap. (chip)	22 16V	チップケミコン			01
	C192	US063220	Ceramic Capacitor-B (chip)	2200P 50V K	チップセラ B			01
	C193	UF037100	Electrolytic Cap. (chip)	10 16V	チップケミコン			01
	C194	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C196	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
	C197	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F			01
	C198	UF065470	Electrolytic Cap. (chip)	0.47 50V	チップケミコン			01
	C199	US061100	Ceramic Capacitor-CH (chip)	10P 50V D	チップセラ CH			01
	C200	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C201	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C202	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
	R1	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
	R2	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
	R3	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
	R4	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R5	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R6	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R7	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R8	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R9	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R10	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R11	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R12	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R13	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R14	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R15	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R16	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R17	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R18	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R19	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R20	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R21	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R22	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
	R23	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
	R24	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
	R25	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01

* New Parts（新規部品）

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REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
R26	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R27	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R28	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R29	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R30	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R31	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R32	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R33	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R34	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R35	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R36	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R37	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R38	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R39	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R40	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R41	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R42	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R43	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R44	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R45	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R46	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R47	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R48	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R49	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R50	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R51	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R52	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R53	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R54	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R55	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R56	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R57	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R58	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R59	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R60	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R61	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R62	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R63	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R64	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R65	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R66	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R67	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R68	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R69	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R70	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R71	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R72	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R73	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R74	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R75	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R76	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R77	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R78	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R79	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R80	RD355680	Carbon Resistor (chip)	680 63M J	チップ抵抗			01
R81	RD357470	Carbon Resistor (chip)	47K 63M J	チップ抵抗			01
R82	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R83	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R84	RD355220	Carbon Resistor (chip)	220 63M J	チップ抵抗			01
R85	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R86	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R87	RD356150	Carbon Resistor (chip)	1.5K 63M J	チップ抵抗			01
R88	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R89	RD358470	Carbon Resistor (chip)	470K 63M J	チップ抵抗			01
R90	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R91	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R92	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R93	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R94	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R95	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
R96	RD359100	Carbon Resistor (chip)	1.0M 63M J	チップ抵抗			01
R97	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R98	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R99	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R100	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R101	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R102	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R103	RD355220	Carbon Resistor (chip)	220 63M J	チップ抵抗			01
R104	RD355220	Carbon Resistor (chip)	220 63M J	チップ抵抗			01
R105	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R106	RD355220	Carbon Resistor (chip)	220 63M J	チップ抵抗			01
R107	RD355220	Carbon Resistor (chip)	220 63M J	チップ抵抗			01
R108	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R109	RD355220	Carbon Resistor (chip)	220 63M J	チップ抵抗			01
R110	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R111	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R112	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R113	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R114	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R115	RD357470	Carbon Resistor (chip)	47K 63M J	チップ抵抗			01
R116	RD357470	Carbon Resistor (chip)	47K 63M J	チップ抵抗			01
R117	RD357470	Carbon Resistor (chip)	47K 63M J	チップ抵抗			01
R118	RD356470	Carbon Resistor (chip)	4.7K 63M J	チップ抵抗			01
R119	RD358560	Carbon Resistor (chip)	560K 63M J	チップ抵抗			01
R120	RD356120	Carbon Resistor (chip)	1.2K 63M J	チップ抵抗			01
R121	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R122	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R123	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R124	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R125	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R126	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R127	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R128	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R129	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R130	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R131	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R132	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R133	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R134	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R135	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R136	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R137	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R138	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R139	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R140	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R141	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R142	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R143	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R144	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R145	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R146	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R147	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R148	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R149	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R150	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R151	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R152	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R153	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R154	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R155	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R156	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R157	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R158	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R159	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R160	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R161	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R162	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R163	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R164	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R165	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
R166	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R167	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R168	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R169	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R170	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R171	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R172	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R173	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R174	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R175	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R176	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R177	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R178	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R179	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R180	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R181	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R182	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R183	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R184	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R185	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R186	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R187	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R188	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R189	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R190	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R191	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R192	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R193	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R194	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R195	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R196	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R197	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R198	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R199	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R200	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R201	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R202	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R203	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R204	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R205	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R206	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R207	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R208	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R209	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R210	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R211	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R212	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R213	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R214	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R215	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R216	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R217	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R218	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R219	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R220	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R221	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R222	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R223	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R224	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R225	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R226	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R227	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R228	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R229	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R230	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R231	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R232	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R233	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R234	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R235	RD355220	Carbon Resistor (chip)	220 63M J	チップ抵抗			01

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
R236	RD354680	Carbon Resistor (chip)	68 63M J	チップ抵抗			01
R237	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R238	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R239	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R240	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R241	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R242	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R243	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R244	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R245	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R246	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R247	RD356470	Carbon Resistor (chip)	4.7K 63M J	チップ抵抗			01
R248	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R249	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R250	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R251	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R252	RD359100	Carbon Resistor (chip)	1.0M 63M J	チップ抵抗			01
R253	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R254	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R255	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R256	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R257	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R258	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R259	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R260	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R261	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R262	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R263	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R264	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R265	RD356100	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗			01
R266	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R267	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R269	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R271	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R273	RD356470	Carbon Resistor (chip)	4.7K 63M J	チップ抵抗			01
R274	RD356470	Carbon Resistor (chip)	4.7K 63M J	チップ抵抗			01
R275	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R276	RD354100	Carbon Resistor (chip)	10 63M J	チップ抵抗			01
R277	RD356470	Carbon Resistor (chip)	4.7K 63M J	チップ抵抗			01
R278	RD356470	Carbon Resistor (chip)	4.7K 63M J	チップ抵抗			01
R279	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R280	RD354100	Carbon Resistor (chip)	10 63M J	チップ抵抗			01
R281	RD356100	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗			01
R282	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R283	RD354680	Carbon Resistor (chip)	68 63M J	チップ抵抗			01
R284	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R285	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R286	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R287	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R288	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R289	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R290	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R291	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R292	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R293	RD356560	Carbon Resistor (chip)	5.6K 63M J	チップ抵抗			01
R294	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R295	RD156120	Carbon Resistor (chip)	1.2K 1/4 J	チップ抵抗			
R296	RD156120	Carbon Resistor (chip)	1.2K 1/4 J	チップ抵抗			
R297	RD155150	Carbon Resistor (chip)	150.0 1/4 J	チップ抵抗			
R298	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R299	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R300	RD156470	Carbon Resistor (chip)	4.7K 1/4 J	チップ抵抗			
R301	RD156470	Carbon Resistor (chip)	4.7K 1/4 J	チップ抵抗			
R302	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R303	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01
R304	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R305	RD356560	Carbon Resistor (chip)	5.6K 63M J	チップ抵抗			01
R306	RD155470	Carbon Resistor (chip)	470.0 1/4 J	チップ抵抗			
R307	RD155470	Carbon Resistor (chip)	470.0 1/4 J	チップ抵抗			
R308	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗			01

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
R309	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R310	RD356100	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗			01
R311	RD356560	Carbon Resistor (chip)	5.6K 63M J	チップ抵抗			01
R312	RD356560	Carbon Resistor (chip)	5.6K 63M J	チップ抵抗			01
R313	RD356270	Carbon Resistor (chip)	2.7K 63M J	チップ抵抗			01
R314	RD356220	Carbon Resistor (chip)	2.2K 63M J	チップ抵抗			01
R315	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R316	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R317	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R318	RD356270	Carbon Resistor (chip)	2.7K 63M J	チップ抵抗			01
R319	RD356220	Carbon Resistor (chip)	2.2K 63M J	チップ抵抗			01
R320	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R321	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R322	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R323	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R324	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R325	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R326	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R327	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R328	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R329	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R330	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R331	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R332	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R333	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R334	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R335	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R336	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R337	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R338	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R339	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R340	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R341	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R342	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R343	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R344	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R345	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R346	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R347	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R348	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R349	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R350	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R351	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R352	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R353	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R354	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R355	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R356	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R357	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R358	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R359	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R360	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R361	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R362	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R363	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R364	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R365	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R366	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R367	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R368	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R369	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R370	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R371	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R372	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R373	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R374	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R375	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R376	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R377	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R378	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
R379	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R380	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R381	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R382	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R383	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R384	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R385	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R386	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R387	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R388	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R389	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R390	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R391	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R392	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R393	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R394	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R395	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R396	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R397	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R398	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R399	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R400	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R401	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R402	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R403	RD356100	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗			01
R404	RD356100	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗			01
R409	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R412	RD356100	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗			01
R413	RD356100	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗			01
R414	RD356100	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗			01
R416	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R417	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R418	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R419	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R420	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R421	RD356680	Carbon Resistor (chip)	6.8K 63M J	チップ抵抗			01
R422	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R423	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R424	RD356100	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗			01
R426	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R427	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R428	RD356470	Carbon Resistor (chip)	4.7K 63M J	チップ抵抗			01
R429	RD358560	Carbon Resistor (chip)	560K 63M J	チップ抵抗			01
R430	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R431	RD356470	Carbon Resistor (chip)	4.7K 63M J	チップ抵抗			01
R432	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R433	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R434	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R435	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R436	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R437	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R439	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R440	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R441	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R442	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R443	RD355220	Carbon Resistor (chip)	220 63M J	チップ抵抗			01
R444	RD359100	Carbon Resistor (chip)	1.0M 63M J	チップ抵抗			01
R445	RD355220	Carbon Resistor (chip)	220 63M J	チップ抵抗			01
R446	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R447	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R448	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R449	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R450	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R451	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R452	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R453	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R454	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R455	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R456	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R457	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
R458	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R459	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R460	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R461	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R462	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R463	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R464	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R465	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R466	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R467	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R468	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R469	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R470	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R471	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R472	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R473	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R474	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R475	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R476	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R477	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R478	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R479	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R480	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R481	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R482	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R483	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R484	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R485	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R486	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R487	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R488	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗			01
R489	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R490	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R491	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R492	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R493	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R494	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R495	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R499	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R500	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R503	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
R504	RD358470	Carbon Resistor (chip)	470K 63M J	チップ抵抗			01
R505	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
R506	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗			01
CN1	VE387000	Base Post Connector	53014- 3P TE	ベースポスト	to MK-CN2		03
CN2	VE387900	Base Post Connector	53014-12P TE	ベースポスト	to MK-CN3		01
CN3	VE387800	Base Post Connector	53014-11P TE	ベースポスト	to MK-CN2		01
CN4	VB390100	Connector Base Post	PH- 5P TE	コネクタベースポスト	to HP-CN2		01
CN5	VB390200	Connector Base Post	PH- 6P TE	コネクタベースポスト	to AM-CN2		01
CN6	VF283400	Connector Base Post	PH-16P TE	コネクタベースポスト	to AM-CN3		01
CN7	LB919020	Base Post Connector	XH- 2P SE	ベーススツキポスト	to AM-CN4		01
CN8	VB389900	Connector Base Post	PH- 3P TE	コネクタベースポスト	to PN2-CN3		01
CN9	VN394900	Connector , FFC	52045-14P TE	FFCコネクター	to LCD		01
CN10	VB390000	Connector Base Post	PH- 4P TE	コネクタベースポスト	to Wheel		01
CN11	VB390800	Connector Base Post	PH-12P TE	コネクタベースポスト	to JACK-CN1,CN2		01
CN12	VB390500	Connector Base Post	PH- 9P TE	コネクタベースポスト	to PN1-CN1		03
* CN13	VK633200	Connector Header	HIF3FC-34PA2.54DS	コネクタヘッダー	to FDD		
* CN14	VT321500	Pin Header	A3E-44P TE	ピンヘッダー	to HDD		04
CN15	VB390200	Connector Base Post	PH- 6P TE	コネクタベースポスト	to PN2-CN4		01
CN16	VV345900	SIMM Socket	SX3LB-72S-1.27DSA	SIMMソケット	to SIMM LOW		04
CN17	VV345900	SIMM Socket	SX3LB-72S-1.27DSA	SIMMソケット	to SIMM HIGH		04
* CN18	VZ230800	Connector , P.C.B.	TX15- 70P TE	基板用コネクタ	to ROM-CN1		05
* CN19	VZ230900	Connector , P.C.B.	TX15-100P TE	基板用コネクタ	to ROM-CN2		06
*	VY975900	Circuit Board	ES	ESシート	(XT219C0)		
D1	VB941200	Diode	1SS133,1SS176	ダイオード			01
D2	VB941200	Diode	1SS133,1SS176	ダイオード			01
D3	VB941200	Diode	1SS133,1SS176	ダイオード			01
D4	VB941200	Diode	1SS133,1SS176	ダイオード			01
D5	VB941200	Diode	1SS133,1SS176	ダイオード			01

* New Parts（新規部品）

ランク：Japan only

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS		QTY	ランク
	D6	VB941200	Diode	1SS133,1SS176	ダイオード				01
	D7	VB941200	Diode	1SS133,1SS176	ダイオード				01
	D8	VB941200	Diode	1SS133,1SS176	ダイオード				01
	D9	VB941200	Diode	1SS133,1SS176	ダイオード				01
	D10	VB941200	Diode	1SS133,1SS176	ダイオード				01
	D11	VB941200	Diode	1SS133,1SS176	ダイオード				01
	D12	VB941200	Diode	1SS133,1SS176	ダイオード				01
	D13	VB941200	Diode	1SS133,1SS176	ダイオード				01
	D14	VB941200	Diode	1SS133,1SS176	ダイオード				01
	D15	VB941200	Diode	1SS133,1SS176	ダイオード				01
	D16	VB941200	Diode	1SS133,1SS176	ダイオード				01
	RE1	VS368100	Rotary Encoder	SDB161PHA10.2(29)	ロータリーエンコーダ	LCD controller1			06
	RE2	VS368100	Rotary Encoder	SDB161PHA10.2(29)	ロータリーエンコーダ	LCD controller2			06
	RE3	VS368100	Rotary Encoder	SDB161PHA10.2(29)	ロータリーエンコーダ	LCD controller3			06
	RE4	VS368100	Rotary Encoder	SDB161PHA10.2(29)	ロータリーエンコーダ	LCD controller4			06
	RE5	VS368100	Rotary Encoder	SDB161PHA10.2(29)	ロータリーエンコーダ	LCD controller5			06
	RE6	VS368100	Rotary Encoder	SDB161PHA10.2(29)	ロータリーエンコーダ	LCD controller6			06
	RE7	VS368100	Rotary Encoder	SDB161PHA10.2(29)	ロータリーエンコーダ	LCD controller7			06
	RE8	VS368100	Rotary Encoder	SDB161PHA10.2(29)	ロータリーエンコーダ	LCD controller8			06
	CN1	VB858700	Connector Base Post	PH- 8P SE	コネクタベースポスト	to PN1-CN2			01
	CN2	VB858900	Connector Base Post	PH-10P SE	コネクタベースポスト	to PN1-CN3			01
*		VY975200	Circuit Board	HP	HPシート		(XT217C0)		
	IC1	XB247A00	IC	UPC4570HA	IC	OP AMP			01
*	IC2	VZ607900	Relay	AQV257M	フォトモスリレー				
	L1	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH				01
	L2	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH				01
	L3	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH				01
	L4	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH				01
	L5	GE300670	Ferrite Bead	BL02RN2-R62T4	フェライトビーズ				02
	C1	UJ837220	Electrolytic Cap.	22.00 16.0V	ケミコン				01
	C2	UJ837220	Electrolytic Cap.	22.00 16.0V	ケミコン				01
	C3	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン				01
	C4	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン				01
	C5	UN866470	Electrolytic Cap.-BP	4.70 50.0V	BPケミコン				01
	C7	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン				01
	C8	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン				01
	C9	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン				01
	R1	HF755270	Carbon Resistor	270.0 1/4 J	カーボン抵抗				01
	R2	HF755270	Carbon Resistor	270.0 1/4 J	カーボン抵抗				01
	R3	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗				01
	R4	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗				01
	R5	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗				01
	R6	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗				01
	R7	HF758220	Carbon Resistor	220.0K 1/4 J	カーボン抵抗				01
	R8	HF754100	Carbon Resistor	10.0 1/4 J	カーボン抵抗				01
	JK1	LB101870	Phone Jack	YKB21-5006	ホーンコネクタ	PHONES			03
	JK2	LB101870	Phone Jack	YKB21-5006	ホーンコネクタ	MIC/LINE IN			03
	CN1	LB918050	Base Post Connector	XH- 5P TE	ベースツキポスト	to AM-CN8			01
	CN2	VB390300	Connector Base Post	PH- 7P TE	コネクタベースポスト	to DM-CN4,PN2-CN4			01
		VT388200	Circuit Board	INLET	インレットシート CE	E,B,X	(XQ666B0)		08
		VT388100	Circuit Board	INLET	インレットシート UC	U	(XQ666B0)		08
		VT308100	AC Inlet	CCT9302-0101M	AC インレット 2P	E,B,X			02
		VT308200	AC Inlet	CCT9302-0201	AC インレット 2P	U			02
		VG879900	Base Post Connector	VA- 2P TE	ベースツキポスト				01
		VY638900	Circuit Board	INV	INVシート		(XT122A0)		13
	TR1	VS185700	Transistor	2SC3669-O/Y(TPF2)	トランジスタ				01
	TR1	VS185600	Transistor	2SD1863 TV2 82-390	トランジスタ				01
	TR2	VS185700	Transistor	2SC3669-O/Y(TPF2)	トランジスタ				01
	TR2	VS185600	Transistor	2SD1863 TV2 82-390	トランジスタ				01
	L1	VS587900	Coil	LH L08TB221K 220uH	コイル 220uH				01
	L2	VS602500	Inverter Transformer	CLF16A	インバータトランス				07
	C1	VP318400	Electrolytic Cap. (chip)	0.068 250 ECQE26	コンデンサ				01
	C2	VS147400	Ceramic Capacitor-SL	18P 3KV J	セラコンSL				01
	R1	HF756560	Carbon Resistor	5.6K 1/4 J	カーボン抵抗				01
	R2	HF756560	Carbon Resistor	5.6K 1/4 J	カーボン抵抗				01
	CN1	LB919020	Base Post Connector	XH-2P SE	ベースツキポスト				01
	CN2	VT389600	Base Post Connector	53259-4P SE	ベースポスト				01

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ランク：Japan only

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
*		VY975500	Circuit Board	JACK	ジャックシート	(XT218C0)		
*		VY975600	Circuit Board	AC	ACシート	(XT218C0)		
	IC1	VD473200	Photo Coupler	6N137	フォトカプラ			05
	IC2	IG142250	IC	SN74HCU04N	IC	INVERTER		01
	IC3	XP094A00	IC	MC34051P	IC	LINE TRANSCEIVER		05
	TR1	IC174070	Transistor	2SC1740S R,S	トランジスタ			01
	TR2	IC174070	Transistor	2SC1740S R,S	トランジスタ			01
	TR3	IC174070	Transistor	2SC1740S R,S	トランジスタ			01
	TR4	IC174070	Transistor	2SC1740S R,S	トランジスタ			01
	D1	VB941200	Diode	1SS133,1SS176	ダイオード			01
	D2	VB941200	Diode	1SS133,1SS176	ダイオード			01
	D3	VB941200	Diode	1SS133,1SS176	ダイオード			01
	D4	VB941200	Diode	1SS133,1SS176	ダイオード			01
	SW1	VQ665200	Slide Switch	SSSF144-S06N-0	スライドSW	TO HOST(PC1-PC2)		03
	WB1	GE300670	Ferrite Bead	BL02RN2-R62T4	フェライトビーズ			02
	WB2	GE300670	Ferrite Bead	BL02RN2-R62T4	フェライトビーズ			02
	WB3	GE300670	Ferrite Bead	BL02RN2-R62T4	フェライトビーズ			02
	WB4	GE300670	Ferrite Bead	BL02RN2-R62T4	フェライトビーズ			02
	WB5	GE300670	Ferrite Bead	BL02RN2-R62T4	フェライトビーズ			02
	WB6	GE300670	Ferrite Bead	BL02RN2-R62T4	フェライトビーズ			02
	WB7	GE300670	Ferrite Bead	BL02RN2-R62T4	フェライトビーズ			02
	L1	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L2	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L3	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L4	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L5	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L6	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L7	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L8	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L9	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L10	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L11	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L12	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	L13	VB835000	Coil	FL5R200QNT 20uH	コイル 20uH			01
	C1	UJ866100	Electrolytic Cap.	1.00 50.0V	ケミコン			01
	C2	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
	C3	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
	C4	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
	C5	FG612220	Ceramic Cap.-B	220P 50V K	セラコン B			01
	C6	FG612220	Ceramic Cap.-B	220P 50V K	セラコン B			01
	C7	FG644100	Ceramic Capacitor-F	0.0100 50V Z	セラコン F			01
	C8	FG644100	Ceramic Capacitor-F	0.0100 50V Z	セラコン F			01
	C9	FG644100	Ceramic Capacitor-F	0.0100 50V Z	セラコン F			01
	C10	UJ817470	Electrolytic Cap.	47.00 6.3V	ケミコン			01
	C11	FG644100	Ceramic Capacitor-F	0.0100 50V Z	セラコン F			01
	C12	UJ837100	Electrolytic Cap.	10.00 16.0V	ケミコン			01
	C13	FG644100	Ceramic Capacitor-F	0.0100 50V Z	セラコン F			01
	R1	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
	R2	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
	R3	HF757220	Carbon Resistor	22.0K 1/4 J	カーボン抵抗			01
	R4	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
	R5	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
	R6	HF758220	Carbon Resistor	220.0K 1/4 J	カーボン抵抗			01
	R7	HF757220	Carbon Resistor	22.0K 1/4 J	カーボン抵抗			01
	R8	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
	R9	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
	R10	HF758220	Carbon Resistor	220.0K 1/4 J	カーボン抵抗			01
	R11	HF755220	Carbon Resistor	220.0 1/4 J	カーボン抵抗			01
	R12	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
	R13	HF755220	Carbon Resistor	220.0 1/4 J	カーボン抵抗			01
	R14	HF755220	Carbon Resistor	220.0 1/4 J	カーボン抵抗			01
	R15	HF756150	Carbon Resistor	1.5K 1/4 J	カーボン抵抗			01
	R16	HF757220	Carbon Resistor	22.0K 1/4 J	カーボン抵抗			01
	R17	HF757220	Carbon Resistor	22.0K 1/4 J	カーボン抵抗			01
	R18	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
	R19	HF755220	Carbon Resistor	220.0 1/4 J	カーボン抵抗			01
	R20	HF755220	Carbon Resistor	220.0 1/4 J	カーボン抵抗			01
	R21	HF756150	Carbon Resistor	1.5K 1/4 J	カーボン抵抗			01
	R22	HF757220	Carbon Resistor	22.0K 1/4 J	カーボン抵抗			01

* New Parts（新規部品）

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REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
R23	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R24	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R25	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R26	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R27	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R28	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R29	HF755220	Carbon Resistor	220.0 1/4 J	カーボン抵抗			01
R30	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R31	HF755220	Carbon Resistor	220.0 1/4 J	カーボン抵抗			01
R32	HF755100	Carbon Resistor	100.0 1/4 J	カーボン抵抗			01
R33	HF755100	Carbon Resistor	100.0 1/4 J	カーボン抵抗			01
R34	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
R35	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R36	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R37	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
CN1	VB390100	Connector Base Post	PH- 5P TE	コネクタベースポスト	to DM-CN11		01
CN2	VB390300	Connector Base Post	PH- 7P TE	コネクタベースポスト	to DM-CN11		01
JK1	VS056300	Phone Jack	HLJ7001-01	ホーンコネクタ	FOOT PEDAL-VOLUME		01
JK2	VB312600	Phone Jack	YKB21-5012	ホーンコネクタ（黒）	FOOT PEDAL-SWITCH 1		02
JK3	VB312600	Phone Jack	YKB21-5012	ホーンコネクタ（黒）	FOOT PEDAL-SWITCH 2		02
JK4	V1856100	DIN Connector	YKF51-5049 3P	DINコネクタ	MIDI-IN,OUT,THRU		03
JK5	VM761000	DIN Connector	DIN-8P MD-S810	複合コネクタ	TO HOST-AC INLET		03
	EP600630	Pan Head Tapping Screw-P	3.0X8 MFZN2BL	ナベPタイト			01
	V1549000	U-shaped Holder	MET41-0191	U字金具			01
*	VZ053800	Angle Bracket, JACK	B	ジャック金具B			04
	VD041700	Jumper Wire	0.55	ジャンパー線			
	--	GND Wire	(2)	アース2束線	(VZ80480)		
	V1912000	Circuit Board	MK (C61)	MKシート	(XH247G0)		14
IC1	IG001390	IC	RC4558D-V	IC	OP AMP		03
D1-	VB941200	Diode	1SS133,1SS176	ダイオード			01
D122	VB941200	Diode	1SS133,1SS176	ダイオード			01
VR1	HT370280	Trimmer Potentiometer	B 500.0K 3P EVN	半固定VR			02
VR2	HT370260	Trimmer Potentiometer	B 100.0K 3P EVN	半固定VR			02
C1	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C2	UJ827470	Electrolytic Cap.	47.00 10.0V	ケミコン			01
C4	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C5	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
C6	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
R1	HF756680	Carbon Resistor	6.8K 1/4 J	カーボン抵抗			01
R2	HF755150	Carbon Resistor	150.0 1/4 J	カーボン抵抗			01
R3	HF755150	Carbon Resistor	150.0 1/4 J	カーボン抵抗			01
R4	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
R5	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
R6	HF757470	Carbon Resistor	47.0K 1/4 J	カーボン抵抗			01
R7	HF757470	Carbon Resistor	47.0K 1/4 J	カーボン抵抗			01
R8	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
R9	HF756220	Carbon Resistor	2.2K 1/4 J	カーボン抵抗			01
R10	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
R11	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
CN1	VE387000	Base Post Connector	53014- 3P TE	ベースポスト			03
CN2	VE387800	Base Post Connector	53014-11P TE	ベースポスト			01
CN3	VE387900	Base Post Connector	53014-12P TE	ベースポスト			01
SC1	LB016030	Connector	FFC- 3P TE	コネクタ			01
	VA078900	Jumper Wire	0.55	ジャンパー線			
	VQ359100	Adhesive Tape	24MM 330M	粘着テープ			
*	VY974800	Circuit Board	PN1	PN1シート	(XT216C0)		
IC1	XS711200	IC	MN101C027YB	IC	CPU		06
IC2	VH885000	Transistor Array	TD62785P SOURCE	トランジスタアレイ			04
IC3	IG136700	Transistor Array	TD62083AP	トランジスタアレイ			05
TR1	VK165500	Digital Transistor	DTC123JS TP	デジタルトランジスタ			01
CR1	VE222400	Ceramic Resonator	8 MHZ EFO-FC8004A4	セラミック発振子			03
D1	VB941200	Diode	1SS133,1SS176	ダイオード			01
D2	VB941200	Diode	1SS133,1SS176	ダイオード			01
D3	VB941200	Diode	1SS133,1SS176	ダイオード			01
D4	VB941200	Diode	1SS133,1SS176	ダイオード			01
D5	VB941200	Diode	1SS133,1SS176	ダイオード			01
D6	VB941200	Diode	1SS133,1SS176	ダイオード			01
D7	VB941200	Diode	1SS133,1SS176	ダイオード			01

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
D8	VB941200	Diode	1SS133,1SS176	ダイオード			01
D9	VB941200	Diode	1SS133,1SS176	ダイオード			01
D10	VB941200	Diode	1SS133,1SS176	ダイオード			01
D11	VB941200	Diode	1SS133,1SS176	ダイオード			01
D12	VB941200	Diode	1SS133,1SS176	ダイオード			01
D13	VB941200	Diode	1SS133,1SS176	ダイオード			01
D14	VB941200	Diode	1SS133,1SS176	ダイオード			01
D15	VB941200	Diode	1SS133,1SS176	ダイオード			01
D16	VB941200	Diode	1SS133,1SS176	ダイオード			01
D17	VB941200	Diode	1SS133,1SS176	ダイオード			01
D18	VB941200	Diode	1SS133,1SS176	ダイオード			01
D19	VB941200	Diode	1SS133,1SS176	ダイオード			01
D20	VB941200	Diode	1SS133,1SS176	ダイオード			01
D21	VB941200	Diode	1SS133,1SS176	ダイオード			01
D22	VB941200	Diode	1SS133,1SS176	ダイオード			01
D23	VB941200	Diode	1SS133,1SS176	ダイオード			01
D24	VB941200	Diode	1SS133,1SS176	ダイオード			01
D25	VB941200	Diode	1SS133,1SS176	ダイオード			01
D26	VB941200	Diode	1SS133,1SS176	ダイオード			01
D27	VB941200	Diode	1SS133,1SS176	ダイオード			01
D28	VB941200	Diode	1SS133,1SS176	ダイオード			01
D29	VB941200	Diode	1SS133,1SS176	ダイオード			01
D30	VB941200	Diode	1SS133,1SS176	ダイオード			01
D31	VB941200	Diode	1SS133,1SS176	ダイオード			01
D32	VB941200	Diode	1SS133,1SS176	ダイオード			01
D33	VB941200	Diode	1SS133,1SS176	ダイオード			01
D34	VB941200	Diode	1SS133,1SS176	ダイオード			01
D35	VB941200	Diode	1SS133,1SS176	ダイオード			01
D36	VB941200	Diode	1SS133,1SS176	ダイオード			01
D37	VB941200	Diode	1SS133,1SS176	ダイオード			01
D38	VB941200	Diode	1SS133,1SS176	ダイオード			01
D39	VB941200	Diode	1SS133,1SS176	ダイオード			01
D40	VB941200	Diode	1SS133,1SS176	ダイオード			01
D41	VB941200	Diode	1SS133,1SS176	ダイオード			01
D42	VB941200	Diode	1SS133,1SS176	ダイオード			01
D43	VB941200	Diode	1SS133,1SS176	ダイオード			01
D44	VB941200	Diode	1SS133,1SS176	ダイオード			01
D45	VB941200	Diode	1SS133,1SS176	ダイオード			01
D46	VB941200	Diode	1SS133,1SS176	ダイオード			01
D47	VB941200	Diode	1SS133,1SS176	ダイオード			01
D48	VB941200	Diode	1SS133,1SS176	ダイオード			01
D49	VB941200	Diode	1SS133,1SS176	ダイオード			01
D50	VB941200	Diode	1SS133,1SS176	ダイオード			01
D51	VB941200	Diode	1SS133,1SS176	ダイオード			01
D52	VB941200	Diode	1SS133,1SS176	ダイオード			01
D53	VB941200	Diode	1SS133,1SS176	ダイオード			01
D54	VB941200	Diode	1SS133,1SS176	ダイオード			01
D55	VB941200	Diode	1SS133,1SS176	ダイオード			01
D56	VB941200	Diode	1SS133,1SS176	ダイオード			01
SW1	VQ320400	Tact Switch	SKHVBE091A	タクトSW	DEMO/HELP		01
SW2	VQ320400	Tact Switch	SKHVBE091A	タクトSW	SONG-REW		01
SW3	VQ320400	Tact Switch	SKHVBE091A	タクトSW	SONG-FF		01
SW4	VQ320400	Tact Switch	SKHVBE091A	タクトSW	SONG-PAUSE		01
SW5	VQ320400	Tact Switch	SKHVBE091A	タクトSW	SONG SELECT		01
SW6	VQ320400	Tact Switch	SKHVBE091A	タクトSW	SONG		01
SW7	VQ320400	Tact Switch	SKHVBE091A	タクトSW	8BEAT 1		01
SW8	VQ320400	Tact Switch	SKHVBE091A	タクトSW	8BEAT 2		01
SW9	VQ320400	Tact Switch	SKHVBE091A	タクトSW	16BEAT		01
SW10	VQ320400	Tact Switch	SKHVBE091A	タクトSW	BALLAD		01
SW11	VQ320400	Tact Switch	SKHVBE091A	タクトSW	ROCK		01
SW12	VQ320400	Tact Switch	SKHVBE091A	タクトSW	DANCEFROUR		01
SW13	VQ320400	Tact Switch	SKHVBE091A	タクトSW	DISCO		01
SW14	VQ320400	Tact Switch	SKHVBE091A	タクトSW	SWING & JAZZ		01
SW15	VQ320400	Tact Switch	SKHVBE091A	タクトSW	R & B		01
SW16	VQ320400	Tact Switch	SKHVBE091A	タクトSW	COUNTRY		01
SW17	VQ320400	Tact Switch	SKHVBE091A	タクトSW	AUTO ACCOMPANIMENT		01
SW18	VQ320400	Tact Switch	SKHVBE091A	タクトSW	LATIN		01
SW19	VQ320400	Tact Switch	SKHVBE091A	タクトSW	BALLROOM		01
SW20	VQ320400	Tact Switch	SKHVBE091A	タクトSW	MARCH & WALTZ		01
SW21	VQ320400	Tact Switch	SKHVBE091A	タクトSW	GROOVE STYLE		01

* New Parts（新規部品）

ランク：Japan only

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
	SW22	VQ320400	Tact Switch	SKHVBE091A	タクトSW	CUSTOM STYLE		01
	SW23	VQ320400	Tact Switch	SKHVBE091A	タクトSW	VOICE CREATOR		01
	SW24	VQ320400	Tact Switch	SKHVBE091A	タクトSW	SONG/M.PAD RECORDING		01
	SW25	VQ320400	Tact Switch	SKHVBE091A	タクトSW	STYLE CREATOR		01
	SW26	VQ320400	Tact Switch	SKHVBE091A	タクトSW	SAMPLING		01
	SW27	VQ320400	Tact Switch	SKHVBE091A	タクトSW	FUNCTION		01
	SW28	VQ320400	Tact Switch	SKHVBE091A	タクトSW	DISK		01
	SW29	VQ320400	Tact Switch	SKHVBE091A	タクトSW	DIRECT ACCESS		01
	SW30	VQ320400	Tact Switch	SKHVBE091A	タクトSW	MASTER TRANS.-RESET(<)		01
	SW31	VQ320400	Tact Switch	SKHVBE091A	タクトSW	TEMPO-RESET(<)		01
	SW32	VQ320400	Tact Switch	SKHVBE091A	タクトSW	MASTER TRANS.-RESET(>)		01
	SW33	VQ320400	Tact Switch	SKHVBE091A	タクトSW	TEMPO-RESET(>)		01
	SW34	VQ320400	Tact Switch	SKHVBE091A	タクトSW	LCD-A		01
	SW35	VQ320400	Tact Switch	SKHVBE091A	タクトSW	LCD-B		01
	SW36	VQ320400	Tact Switch	SKHVBE091A	タクトSW	LCD-C		01
	SW37	VQ320400	Tact Switch	SKHVBE091A	タクトSW	LCD-D		01
	SW38	VQ320400	Tact Switch	SKHVBE091A	タクトSW	LCD-E		01
	SW39	VQ320400	Tact Switch	SKHVBE091A	タクトSW	MIXING CONSOLE-FADER		01
	SW40	VQ320400	Tact Switch	SKHVBE091A	タクトSW	MIXING CONSOLE-FULL		01
	SW41	VQ320400	Tact Switch	SKHVBE091A	タクトSW	SYNC STOP		01
	SW42	VQ320400	Tact Switch	SKHVBE091A	タクトSW	SYNC START		01
	SW43	VQ320400	Tact Switch	SKHVBE091A	タクトSW	START/STOP		01
	SW44	VQ320400	Tact Switch	SKHVBE091A	タクトSW	INTRO A/B		01
	SW45	VQ320400	Tact Switch	SKHVBE091A	タクトSW	MAIN/AUTO FILL-A		01
	SW46	VQ320400	Tact Switch	SKHVBE091A	タクトSW	MAIN/AUTO FILL-B		01
	SW47	VQ320400	Tact Switch	SKHVBE091A	タクトSW	ENDING A/B/rit		01
	SW48	VQ320400	Tact Switch	SKHVBE091A	タクトSW	FADE IN/OUT		01
	SW49	VQ320400	Tact Switch	SKHVBE091A	タクトSW	M.PAD BANK(-)		01
	SW50	VQ320400	Tact Switch	SKHVBE091A	タクトSW	M.PAD BANK(+)		01
	SW51	VQ320400	Tact Switch	SKHVBE091A	タクトSW	M.PAD BANK(STOP)		01
	SW52	VQ320400	Tact Switch	SKHVBE091A	タクトSW	M.PAD BANK(1)		01
	SW53	VQ320400	Tact Switch	SKHVBE091A	タクトSW	M.PAD BANK(2)		01
	SW54	VQ320400	Tact Switch	SKHVBE091A	タクトSW	M.PAD BANK(3)		01
	SW55	VQ320400	Tact Switch	SKHVBE091A	タクトSW	M.PAD BANK(4)		01
	SW56	VQ320400	Tact Switch	SKHVBE091A	タクトSW	VIRTUAL ARRANGER		01
	LED1	VD180000	LED	SLZ-190B-03 RE	LED	SONG		01
	LED2	VG778600	LED	SLZ290B-03-T2 GR	LED	8BEAT 1		01
	LED3	VG778600	LED	SLZ290B-03-T2 GR	LED	8BEAT 2		01
	LED4	VG778600	LED	SLZ290B-03-T2 GR	LED	16BEAT		01
	LED5	VG778600	LED	SLZ290B-03-T2 GR	LED	BALLAD		01
	LED6	VG778600	LED	SLZ290B-03-T2 GR	LED	ROCK		01
	LED7	VG778600	LED	SLZ290B-03-T2 GR	LED	DANCEFROUR		01
	LED8	VG778600	LED	SLZ290B-03-T2 GR	LED	DISCO		01
	LED9	VG778600	LED	SLZ290B-03-T2 GR	LED	SWING & JAZZ		01
	LED10	VG778600	LED	SLZ290B-03-T2 GR	LED	R & B		01
	LED11	VG778600	LED	SLZ290B-03-T2 GR	LED	COUNTRY		01
	LED12	VD180000	LED	SLZ-190B-03 RE	LED	AUTO ACCOMPANIMENT		01
	LED13	VG778600	LED	SLZ290B-03-T2 GR	LED	LATIN		01
	LED14	VG778600	LED	SLZ290B-03-T2 GR	LED	BALL ROOM		01
	LED15	VG778600	LED	SLZ290B-03-T2 GR	LED	MARCH & WALTZ		01
	LED16	VG778600	LED	SLZ290B-03-T2 GR	LED	GROOVE STYLE		01
	LED17	VG778600	LED	SLZ290B-03-T2 GR	LED	CUSTOM STYLE		01
	LED18	VT659100	LED	SLZ-174B-03-T1 RE	LED	BEET		01
	LED19	VT361700	LED	SLZ-274B-03-T1 GR	LED	BEAT		01
	LED20	VT361700	LED	SLZ-274B-03-T1 GR	LED	BEAT		01
	LED21	VT361700	LED	SLZ-274B-03-T1 GR	LED	BEAT		01
	LED22	VT882000	LED	SLZ-474B-03-T1 YE	LED	SYNC STOP		01
	LED23	VT882000	LED	SLZ-474B-03-T1 YE	LED	SYNCSTART		01
	LED24	VT882000	LED	SLZ-474B-03-T1 YE	LED	INTRO A/B		01
	LED25	VT882000	LED	SLZ-474B-03-T1 YE	LED	MAIN/AUTO FILL-A		01
	LED26	VT882000	LED	SLZ-474B-03-T1 YE	LED	MAIN/AUTO FILL-B		01
	LED27	VT882000	LED	SLZ-474B-03-T1 YE	LED	ENDING A/B/rit		01
	LED28	VT882000	LED	SLZ-474B-03-T1 YE	LED	FADE IN/OUT		01
	LED29	VD180000	LED	SLZ-190B-03 RE	LED	VIRTUAL ARRANGER		01
*	C1	VE119300	Electrolytic Cap.	100.00 6.3V	ケミコン			
	C2	FG644100	Ceramic Capacitor-F	0.0100 50V Z	セラコン F			01
	C3	FG644100	Ceramic Capacitor-F	0.0100 50V Z	セラコン F			01
*	C4	VE119300	Electrolytic Cap.	100.00 6.3V	ケミコン			
	C5	FG644100	Ceramic Capacitor-F	0.0100 50V Z	セラコン F			01
*	C6	VE119300	Electrolytic Cap.	100.00 6.3V	ケミコン			

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
R1	HF754270	Carbon Resistor	27.0 1/4 J	カーボン抵抗			01
R2	HF754100	Carbon Resistor	10.0 1/4 J	カーボン抵抗			01
R3	HF754270	Carbon Resistor	27.0 1/4 J	カーボン抵抗			01
R4	HF754270	Carbon Resistor	27.0 1/4 J	カーボン抵抗			01
R5	HF754270	Carbon Resistor	27.0 1/4 J	カーボン抵抗			01
R6	HF754270	Carbon Resistor	27.0 1/4 J	カーボン抵抗			01
R7	HF754270	Carbon Resistor	27.0 1/4 J	カーボン抵抗			01
R8	HF754270	Carbon Resistor	27.0 1/4 J	カーボン抵抗			01
R9	HF754270	Carbon Resistor	27.0 1/4 J	カーボン抵抗			01
R10	HF757220	Carbon Resistor	22.0K 1/4 J	カーボン抵抗			01
R11	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R12	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R13	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R14	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R15	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R16	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R17	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R18	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R19	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R20	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R21	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R22	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R23	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R24	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R25	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R26	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
R27	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
CN1	VB858800	Connector Base Post	PH- 9P SE	コネクタベースポスト	to DM-CN12		01
CN2	VB858700	Connector Base Post	PH- 8P SE	コネクタベースポスト	to ES-CN1		01
CN3	VB858900	Connector Base Post	PH-10P SE	コネクタベースポスト	to ES-CN2		01
CN4	VK015500	Connector Base Post	PH-15P SE	コネクタベースポスト	to PN2-CN1		01
CN5	VB858800	Connector Base Post	PH- 9P SE	コネクタベースポスト	to PN2-CN2		01
*	VY975100	Circuit Board	PN2	PN2シート	(XT217C0)		
VR1	VS368200	Rotary Variable Resistor	B10.0K RK09K1130BN	ロータリーVR 1連	LCD CONTRAST		01
VR2	VS368200	Rotary Variable Resistor	B10.0K RK09K1130BN	ロータリーVR 1連	INPUT VOLUME		01
D1	VB941200	Diode	1SS133,1SS176	ダイオード			01
D2	VB941200	Diode	1SS133,1SS176	ダイオード			01
D3	VB941200	Diode	1SS133,1SS176	ダイオード			01
D4	VB941200	Diode	1SS133,1SS176	ダイオード			01
D5	VB941200	Diode	1SS133,1SS176	ダイオード			01
D6	VB941200	Diode	1SS133,1SS176	ダイオード			01
D7	VB941200	Diode	1SS133,1SS176	ダイオード			01
D8	VB941200	Diode	1SS133,1SS176	ダイオード			01
D9	VB941200	Diode	1SS133,1SS176	ダイオード			01
D10	VB941200	Diode	1SS133,1SS176	ダイオード			01
D11	VB941200	Diode	1SS133,1SS176	ダイオード			01
D12	VB941200	Diode	1SS133,1SS176	ダイオード			01
D13	VB941200	Diode	1SS133,1SS176	ダイオード			01
D14	VB941200	Diode	1SS133,1SS176	ダイオード			01
D15	VB941200	Diode	1SS133,1SS176	ダイオード			01
D16	VB941200	Diode	1SS133,1SS176	ダイオード			01
D17	VB941200	Diode	1SS133,1SS176	ダイオード			01
D18	VB941200	Diode	1SS133,1SS176	ダイオード			01
D19	VB941200	Diode	1SS133,1SS176	ダイオード			01
D20	VB941200	Diode	1SS133,1SS176	ダイオード			01
D21	VB941200	Diode	1SS133,1SS176	ダイオード			01
D22	VB941200	Diode	1SS133,1SS176	ダイオード			01
D23	VB941200	Diode	1SS133,1SS176	ダイオード			01
D24	VB941200	Diode	1SS133,1SS176	ダイオード			01
D25	VB941200	Diode	1SS133,1SS176	ダイオード			01
D26	VB941200	Diode	1SS133,1SS176	ダイオード			01
D27	VB941200	Diode	1SS133,1SS176	ダイオード			01
D28	VB941200	Diode	1SS133,1SS176	ダイオード			01
D29	VB941200	Diode	1SS133,1SS176	ダイオード			01
D30	VB941200	Diode	1SS133,1SS176	ダイオード			01
D31	VB941200	Diode	1SS133,1SS176	ダイオード			01
D32	VB941200	Diode	1SS133,1SS176	ダイオード			01
D33	VB941200	Diode	1SS133,1SS176	ダイオード			01
D34	VB941200	Diode	1SS133,1SS176	ダイオード			01

* New Parts（新規部品）

ランク：Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
D35	VB941200	Diode	1SS133,1SS176	ダイオード			01
D36	VB941200	Diode	1SS133,1SS176	ダイオード			01
D37	VB941200	Diode	1SS133,1SS176	ダイオード			01
D38	VB941200	Diode	1SS133,1SS176	ダイオード			01
D39	VB941200	Diode	1SS133,1SS176	ダイオード			01
D40	VB941200	Diode	1SS133,1SS176	ダイオード			01
D41	VB941200	Diode	1SS133,1SS176	ダイオード			01
D42	VB941200	Diode	1SS133,1SS176	ダイオード			01
D43	VB941200	Diode	1SS133,1SS176	ダイオード			01
D44	VB941200	Diode	1SS133,1SS176	ダイオード			01
D45	VB941200	Diode	1SS133,1SS176	ダイオード			01
D46	VB941200	Diode	1SS133,1SS176	ダイオード			01
D47	VB941200	Diode	1SS133,1SS176	ダイオード			01
D48	VB941200	Diode	1SS133,1SS176	ダイオード			01
D49	VB941200	Diode	1SS133,1SS176	ダイオード			01
D50	VB941200	Diode	1SS133,1SS176	ダイオード			01
D51	VB941200	Diode	1SS133,1SS176	ダイオード			01
D52	VB941200	Diode	1SS133,1SS176	ダイオード			01
D53	VB941200	Diode	1SS133,1SS176	ダイオード			01
D54	VB941200	Diode	1SS133,1SS176	ダイオード			01
D55	VB941200	Diode	1SS133,1SS176	ダイオード			01
D56	VB941200	Diode	1SS133,1SS176	ダイオード			01
D57	VB941200	Diode	1SS133,1SS176	ダイオード			01
D58	VB941200	Diode	1SS133,1SS176	ダイオード			01
D59	VB941200	Diode	1SS133,1SS176	ダイオード			01
SW1	VQ320400	Tact Switch	SKHVBE091A	タクトSW	LCD-F		01
SW2	VQ320400	Tact Switch	SKHVBE091A	タクトSW	LCD-G		01
SW3	VQ320400	Tact Switch	SKHVBE091A	タクトSW	LCD-H		01
SW4	VQ320400	Tact Switch	SKHVBE091A	タクトSW	LCD-I		01
SW5	VQ320400	Tact Switch	SKHVBE091A	タクトSW	LCD-J		01
SW6	VQ320400	Tact Switch	SKHVBE091A	タクトSW	EXIT		01
SW7	VQ320400	Tact Switch	SKHVBE091A	タクトSW	REVERB(1)		01
SW8	VQ320400	Tact Switch	SKHVBE091A	タクトSW	DSP(4-6)		01
SW9	VQ320400	Tact Switch	SKHVBE091A	タクトSW	CHORUS(2)		01
SW10	VQ320400	Tact Switch	SKHVBE091A	タクトSW	DSP VARIATION		01
SW11	VQ320400	Tact Switch	SKHVBE091A	タクトSW	HARMONY/ECOH		01
SW12	VQ320400	Tact Switch	SKHVBE091A	タクトSW	POLY/MONO		01
SW13	VQ320400	Tact Switch	SKHVBE091A	タクトSW	ONE TOUCH SETTING(1)		01
SW14	VQ320400	Tact Switch	SKHVBE091A	タクトSW	ONE TOUCH SETTING(2)		01
SW15	VQ320400	Tact Switch	SKHVBE091A	タクトSW	ONE TOUCH SETTING(3)		01
SW16	VQ320400	Tact Switch	SKHVBE091A	タクトSW	ONE TOUCH SETTING(4)		01
SW17	VQ320400	Tact Switch	SKHVBE091A	タクトSW	PIANO		01
SW18	VQ320400	Tact Switch	SKHVBE091A	タクトSW	E.PIANO		01
SW19	VQ320400	Tact Switch	SKHVBE091A	タクトSW	ORGAN		01
SW20	VQ320400	Tact Switch	SKHVBE091A	タクトSW	ACCORDION		01
SW21	VQ320400	Tact Switch	SKHVBE091A	タクトSW	GUITER		01
SW22	VQ320400	Tact Switch	SKHVBE091A	タクトSW	STRINGS		01
SW23	VQ320400	Tact Switch	SKHVBE091A	タクトSW	TRUMPET		01
SW24	VQ320400	Tact Switch	SKHVBE091A	タクトSW	BRASS		01
SW25	VQ320400	Tact Switch	SKHVBE091A	タクトSW	SAXOPHONE		01
SW26	VQ320400	Tact Switch	SKHVBE091A	タクトSW	FLUTE		01
SW27	VQ320400	Tact Switch	SKHVBE091A	タクトSW	CHOIR & PAD		01
SW28	VQ320400	Tact Switch	SKHVBE091A	タクトSW	SYNTHESIZER		01
SW29	VQ320400	Tact Switch	SKHVBE091A	タクトSW	PERCUSSION		01
SW30	VQ320400	Tact Switch	SKHVBE091A	タクトSW	XG		01
SW31	VQ320400	Tact Switch	SKHVBE091A	タクトSW	ORGAN FLUTE		01
SW32	VQ320400	Tact Switch	SKHVBE091A	タクトSW	CUSTOM VOICE		01
SW33	VQ320400	Tact Switch	SKHVBE091A	タクトSW	LEFT HOLD		01
SW34	VQ320400	Tact Switch	SKHVBE091A	タクトSW	PART SELECT(LEFT)		01
SW35	VQ320400	Tact Switch	SKHVBE091A	タクトSW	PART SELECT(RIGHT 1)		01
SW36	VQ320400	Tact Switch	SKHVBE091A	タクトSW	PART SELECT(RIGHT 2)		01
SW37	VQ320400	Tact Switch	SKHVBE091A	タクトSW	PART SELECT(LEAD)		01
SW38	VQ320400	Tact Switch	SKHVBE091A	タクトSW	PART ON/OFF(LEFT)		01
SW39	VQ320400	Tact Switch	SKHVBE091A	タクトSW	PART ON/OFF(RIGHT 1)		01
SW40	VQ320400	Tact Switch	SKHVBE091A	タクトSW	PART ON/OFF(RIGHT 2)		01
SW41	VQ320400	Tact Switch	SKHVBE091A	タクトSW	PART ON/OFF(LEAD)		01
SW42	VQ320400	Tact Switch	SKHVBE091A	タクトSW	REVERB(1)		01
SW43	VQ320400	Tact Switch	SKHVBE091A	タクトSW	CHORUS(2)		01
SW44	VQ320400	Tact Switch	SKHVBE091A	タクトSW	DSP(7)		01
SW45	VQ320400	Tact Switch	SKHVBE091A	タクトSW	VOCAL HARMONY(8)		01

* New Parts（新規部品）

ランク：Japan only

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
	SW46	VQ320400	Tact Switch	SKHVBE091A	タクトSW	HARMONY VARIATION		01
	SW47	VQ320400	Tact Switch	SKHVBE091A	タクトSW	TALK		01
	SW48	VQ320400	Tact Switch	SKHVBE091A	タクトSW	FREEZE		01
	SW49	VQ320400	Tact Switch	SKHVBE091A	タクトSW	REGIST BANK(-)		01
	SW50	VQ320400	Tact Switch	SKHVBE091A	タクトSW	REGIST BANK(+)		01
	SW51	VQ320400	Tact Switch	SKHVBE091A	タクトSW	REGIST BANK(1)		01
	SW52	VQ320400	Tact Switch	SKHVBE091A	タクトSW	REGIST BANK(2)		01
	SW53	VQ320400	Tact Switch	SKHVBE091A	タクトSW	REGIST BANK(3)		01
	SW54	VQ320400	Tact Switch	SKHVBE091A	タクトSW	REGIST BANK(4)		01
	SW55	VQ320400	Tact Switch	SKHVBE091A	タクトSW	REGIST BANK(5)		01
	SW56	VQ320400	Tact Switch	SKHVBE091A	タクトSW	REGIST BANK(6)		01
	SW57	VQ320400	Tact Switch	SKHVBE091A	タクトSW	REGIST BANK(7)		01
	SW58	VQ320400	Tact Switch	SKHVBE091A	タクトSW	REGIST BANK(8)		01
	SW59	VQ320400	Tact Switch	SKHVBE091A	タクトSW	MEMORY		01
	SW60	VQ545300	Slide Switch	SSSF012	スライドSW	MIC/LINE		02
	LED1	VT882000	LED	SLZ-474B-03-T1 YE	LED	FREEZE		01
*	LED2	VZ460300	Photo Diode	SELU6814CTP5	発光ダイオード	REVERB(1)		02
*	LED3	VZ460300	Photo Diode	SELU6814CTP5	発光ダイオード	DSP(4-6)		02
*	LED4	VZ460300	Photo Diode	SELU6814CTP5	発光ダイオード	CHORUS(2)		02
*	LED5	VZ460300	Photo Diode	SELU6814CTP5	発光ダイオード	DSP VARIATION		02
*	LED6	VZ460300	Photo Diode	SELU6814CTP5	発光ダイオード	HARMONY/ECO		02
*	LED7	VZ460300	Photo Diode	SELU6814CTP5	発光ダイオード	POLY/MONO		02
	LED8	VD180000	LED	SLZ-190B-03 RE	LED	LEFT HOLD		01
	LED9	VG778600	LED	SLZ290B-03-T2 GR	LED	PIANO		01
	LED10	VG778600	LED	SLZ290B-03-T2 GR	LED	E.PIANO		01
	LED11	VG778600	LED	SLZ290B-03-T2 GR	LED	ORGAN		01
	LED12	VG778600	LED	SLZ290B-03-T2 GR	LED	ACCORDION		01
	LED13	VG778600	LED	SLZ290B-03-T2 GR	LED	GUITER		01
	LED14	VG778600	LED	SLZ290B-03-T2 GR	LED	STRINGS		01
	LED15	VG778600	LED	SLZ290B-03-T2 GR	LED	TRUMPET		01
	LED16	VG778600	LED	SLZ290B-03-T2 GR	LED	BRASS		01
	LED17	VG778600	LED	SLZ290B-03-T2 GR	LED	SAXOPHONE		01
	LED18	VG778600	LED	SLZ290B-03-T2 GR	LED	FLUTE		01
	LED19	VG778600	LED	SLZ290B-03-T2 GR	LED	CHOIR & PAD		01
	LED20	VG778600	LED	SLZ290B-03-T2 GR	LED	SYNTHESIZER		01
	LED21	VG778600	LED	SLZ290B-03-T2 GR	LED	PERCUSSION		01
	LED22	VG778600	LED	SLZ290B-03-T2 GR	LED	XG		01
	LED23	VG778600	LED	SLZ290B-03-T2 GR	LED	ORGAN FLUTE		01
	LED24	VG778600	LED	SLZ290B-03-T2 GR	LED	CUSTOM VOICE		01
	LED25	VG778600	LED	SLZ290B-03-T2 GR	LED	PART SELECT(LEFT)		01
	LED26	VG778600	LED	SLZ290B-03-T2 GR	LED	PART SELECT(RIGHT 1)		01
	LED27	VG778600	LED	SLZ290B-03-T2 GR	LED	PART SELECT(RIGHT 2)		01
	LED28	VG778600	LED	SLZ290B-03-T2 GR	LED	PART SELECT(LEAD)		01
	LED29	VD180000	LED	SLZ-190B-03 RE	LED	PART ON/OFF(LEFT)		01
	LED30	VD180000	LED	SLZ-190B-03 RE	LED	PART ON/OFF(RIGHT 1)		01
	LED31	VD180000	LED	SLZ-190B-03 RE	LED	PART ON/OFF(RIGHT 2)		01
	LED32	VD180000	LED	SLZ-190B-03 RE	LED	PART ON/OFF(LEAD)		01
*	LED33	VZ460300	Photo Diode	SELU6814CTP5	発光ダイオード	REVERB(1)		02
*	LED34	VZ460300	Photo Diode	SELU6814CTP5	発光ダイオード	CHORUS(2)		02
*	LED35	VZ460300	Photo Diode	SELU6814CTP5	発光ダイオード	DSP(7)		02
*	LED36	VZ460300	Photo Diode	SELU6814CTP5	発光ダイオード	VOCAL HARMONY(8)		02
*	LED37	VZ460300	Photo Diode	SELU6814CTP5	発光ダイオード	HARMONY VARIATION		02
*	LED38	VZ460300	Photo Diode	SELU6814CTP5	発光ダイオード	TALK		02
	LED39	VG778600	LED	SLZ290B-03-T2 GR	LED	DISK IN USE		01
	LED40	VT659100	LED	SLZ-174B-03-T1 RE	LED	OVER		01
	LED41	VT361700	LED	SLZ-274B-03-T1 GR	LED	SIGNAL		01
	R1	HF755220	Carbon Resistor	220.0 1/4 J	カーボン抵抗			01
	R2	HF755220	Carbon Resistor	220.0 1/4 J	カーボン抵抗			01
	R3	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
	CN1	VK015500	Connector Base Post	PH-15P SE	コネクタベースポスト	to PN1-CN4		01
	CN2	VB858800	Connector Base Post	PH- 9P SE	コネクタベースポスト	to PN1-CN5		01
	CN3	VB858200	Connector Base Post	PH- 3P SE	コネクタベースポスト	to DM-CN8		01
	CN4	VB858700	Connector Base Post	PH- 8P SE	コネクタベースポスト	to DM-CN15,HP-CN2		01
		V1549000	U-shaped Holder	MET41-0191	U字金具			01
		VT299300	Holder, Phones		HPジャック金具			03
		VD041700	Jumper Wire	0.55	ジャンパー線			
		---	GND Wire	(5)	アース5束線	(VZ80510)		
*		VZ030200	Circuit Board	ROM	ROMシート	(XT322C0)		
*	IC1	XT567C00	IC	M27C160-100F1	IC	EPROM 16M LOW(PROGRAM)		

* New Parts（新規部品）

ランク：Japan only

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
	IC1	VK863100	IC Socket	DICF-42CS-E	ＩＣソケット			03
*	IC2	XT568C00	IC	M27C160-100F1	ＩＣ	EPROM 16M HIGH(PROGRAM)		
	IC2	VK863100	IC Socket	DICF-42CS-E	ＩＣソケット			03
*	IC3	XT569100	IC		ＩＣ	ROM 16M LOW(DATA)		11
*	IC4	XT570100	IC		ＩＣ	ROM 16M LOW(STYLE)		
*	IC5	XT571100	IC		ＩＣ	ROM 16M HIGH(STYLE)		
*	IC6	XT572100	IC		ＩＣ	ROM 32M LOW(WAVE1)		13
*	IC7	XT573100	IC		ＩＣ	ROM 32M HIGH(WAVE1)		13
*	IC8	XT574100	IC		ＩＣ	ROM 16M LOW(WAVE2)		11
*	IC9	XT575100	IC		ＩＣ	ROM 16M HIGH(WAVE2)		1
	C01	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C02	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
	C03	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C04	UF018100	Electrolytic Cap. (chip)	100 6.3V	チップケミコン			01
	C05	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C06	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C07	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C08	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C09	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C10	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C11	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C12	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	C13	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B			01
	R1	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R2	RD35000	0Carbon Resistor (chip)	0 63M J	チップ抵抗			0
*	CN1	VZ614500	Connector , P.C.B.	TX14- 70P TE	基板用コネクタ	to DM-CN18		05
*	CN2	VZ614600	Connector , P.C.B.	TX14-100P TE	基板用コネクタ	to DM-CN19		05
		--	Circuit Board	RY	ＲＹシート	(V000980,XU415A0)		
	TR1	IC174070	Transistor	2SC1740S R,S	トランジスタ			01
	D1	VB941200	Diode	1SS133,1SS176	ダイオード			01
	RY1	VM640200	Relay	DC RY 12W-OH-K	リレー 12V			05
	RY1	--	Relay	DC MR82-12USR	リレー 12V	(VZ05750)		
	R1	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
	R2	HF755680	Carbon Resistor	680.0 1/4 J	カーボン抵抗			01
	R3	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
	R4	HF755680	Carbon Resistor	680.0 1/4 J	カーボン抵抗			01
	R5	HF757100	Carbon Resistor	10.0K 1/4 J	カーボン抵抗			01
	R6	HF756470	Carbon Resistor	4.7K 1/4 J	カーボン抵抗			01
	R7	HF755220	Carbon Resistor	220.0 1/4 J	カーボン抵抗			01
	CN1	--	Pin Header	9205B-1-04Z130-T	ピンヘッダー 4P	(V005350)		
	CN2	--	Pin Header	9205B-1-05Z130-T	ピンヘッダー 5P	(V005360)		
		--	Wire	RY1	線材 RY 1	(VZ41600)		
		--	Wire	RY2	線材 RY 2	(VZ41610)		
		--	Wire	RY3	線材 RY 3	(V001910)		
		--	Wire	RY4	線材 RY 4	(V001920)		
*		VY975300	Circuit Board	VR	ＶＲシート	(XT217C0)		
	C1	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半導体セラコン			01
	R1	HF756220	Carbon Resistor	2.2K 1/4 J	カーボン抵抗			01
	VR1	VQ655700	Rotary Variable Resistor	B 10K RK11K1130	ロータリーVR	MASTER VOLUME		02
	CN1	VB858200	Connector Base Post	PH- 3P SE	コネクタベースポスト	to AM-CN1		01
		VT388000	Power Supply Unit		電源ユニット	E,B,X		23
		VT347900	Power Supply Unit		電源ユニット	U		21
		VT015900	AC Cord Set	E 2P 2.5m	電源コードセット	E,X		05
		VT015800	AC Cord Set	U2P 2.44m 7A	電源コードセット	U		06
		VT016000	AC Cord Set	B 2P 2.5m	電源コードセット	B		08
		VT379600	LCD	EDMMPU3BBF	液晶ディスプレイ			27
		VY859300	Floppy Disk Drive	D359T7	3.5" FDD			16
*		XU090A00	Speaker	5.0cm 16ohm 20W	スピーカ	Tweeter		
*		XU089A00	Speaker	16.0cm 4ohm 20W	スピーカ	Woofer		
		VS336700	Push Switch	SDDLB1745A	プッシュSW	STAND BY/ON		03
		VT695100	Rotary Variable Resistor	10.0K RK163111	ロータリーVR	PITCH BEND/MODULATION		03
*		VY999200	Connector Assembly	FDD	FDD束線	DM-CN13=FDD		

* New Parts（新規部品）

ランク：Japan only

■ POWER SUPPLY UNIT

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	ランク
		POWER SUPPLY UNIT		電源ユニット	PSR-8000		
	VT388000	Power Supply Unit		電源ユニット	E,B,X		23
	VT347900	Power Supply Unit		電源ユニット	U		21
IC1	IX808390	IC	AN8021L	IC			04
IC2	IX808400	Photo Coupler	PS2561-1-V	フォトカプラ			06
IC3	IX808400	Photo Coupler	PS2561-1-V	フォトカプラ			06
IC101	IX808410	IC	AN1431T	IC			03
Q1	IX808420	Transistor	FS10TM	トランジスタ			05
Q2	IX808430	Transistor	2SD1458	トランジスタ			02
D2	IX808250	Diode	D3SBA60	ダイオード			
D3	IX808260	Diode	MA2330A	ダイオード			01
D4	IX808270	Diode	MA165	ダイオード			
D5	IX808280	Diode	MA4051N	ダイオード			
D6	IX808290	Diode	MA4240	ダイオード			
D7	IX808300	Diode	AP01C	ダイオード			
D9	IX808310	Diode	MA185	ダイオード			
D10	IX808270	Diode	MA165	ダイオード			
D101	IX808320	Diode	MA6D50	ダイオード			04
D102	IX808330	Diode	MA7D60	ダイオード			04
* D103	IX808340	Diode	AG01	ダイオード			
D104	IX808350	Diode	MA4200-LTA	ダイオード			
D105	IX808360	Diode	MA4062-LTA	ダイオード			
* D106	IX808340	Diode	AG01	ダイオード			
* D107	IX808340	Diode	AG01	ダイオード			
* D108	IX808340	Diode	AG01	ダイオード			
T1	GX804320	Transformer	LSTP0055	トランス			09
TH1	IX808440	Thermistor	M8R210C	サーミスタ			03
F1	KX804570	Fuse	LSSF0013B30	ヒューズ	U		01
F1	KX804580	Fuse	LSSF0013B31	ヒューズ	E,B,X		03
PR102	IX808450	IC Protector	UN10004	ICプロテクタ			01
PR103	IX808450	IC Protector	UN10004	ICプロテクタ			01
PR104	IX808450	IC Protector	UN10004	ICプロテクタ			01
PR105	IX808450	IC Protector	UN10004	ICプロテクタ			01
PR106	IX808460	IC Protector	UN11027	ICプロテクタ			01
PR107	IX808460	IC Protector	UN11027	ICプロテクタ			01

* New Parts（新規部品）

ランク：Japan only

■ PSR-8000 OVERALL CIRCUIT DIAGRAM 1/2(DM)

DM

CPU MODE 2 (MD0-L, MD1-H)

R500	Installed
R501	Not installed
R502	Not installed
R503	Installed

R496	Not installed
R497	Not installed
R498	Not installed
R499	Installed

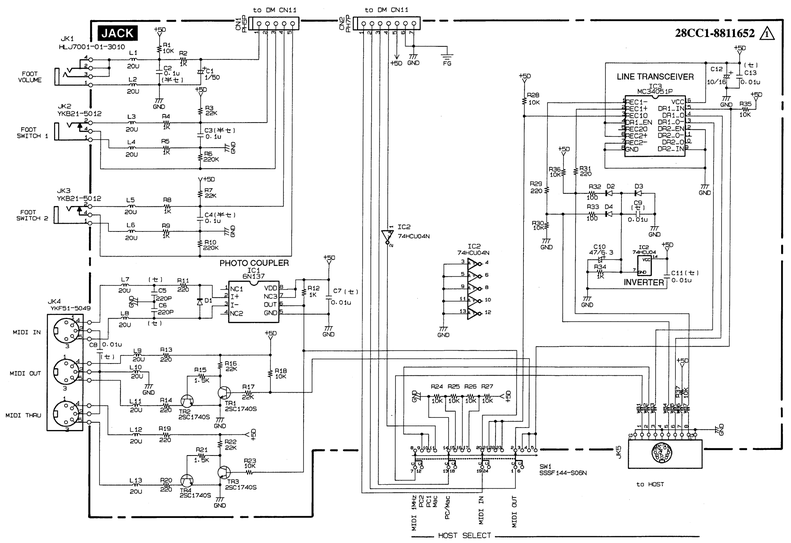
WAVE ROM	R258	R269	R270	R271
32MX2+16MX2	Not installed	Installed	Not installed	Installed
16MX6	Installed	Not installed	Installed	Not installed
WAVE ROM	R272	R417	R425	R437
32MX2+16MX2	Not installed	Installed	Not installed	Installed
16MX6	Installed	Not installed	Installed	Not installed

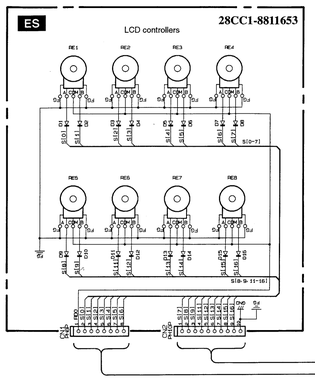
28CC1-8812046 ⚠

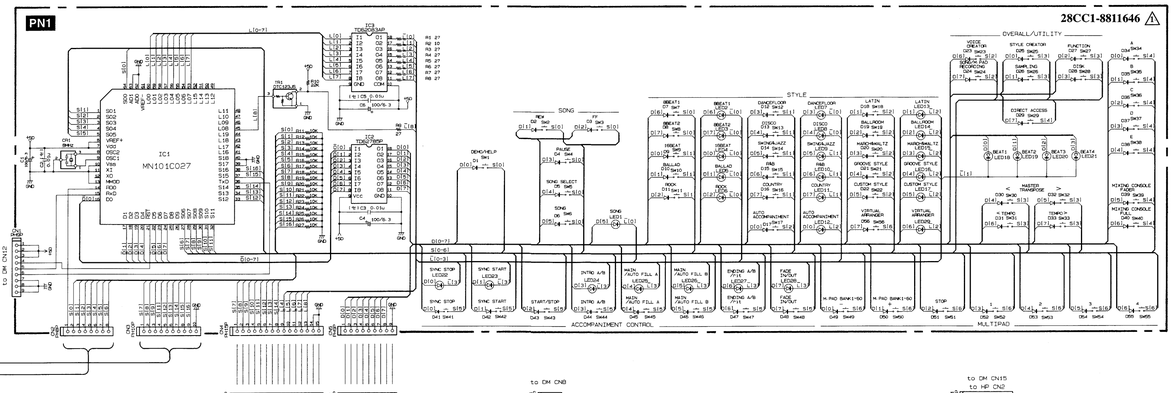
Note : See parts list for details of circuit board component parts.

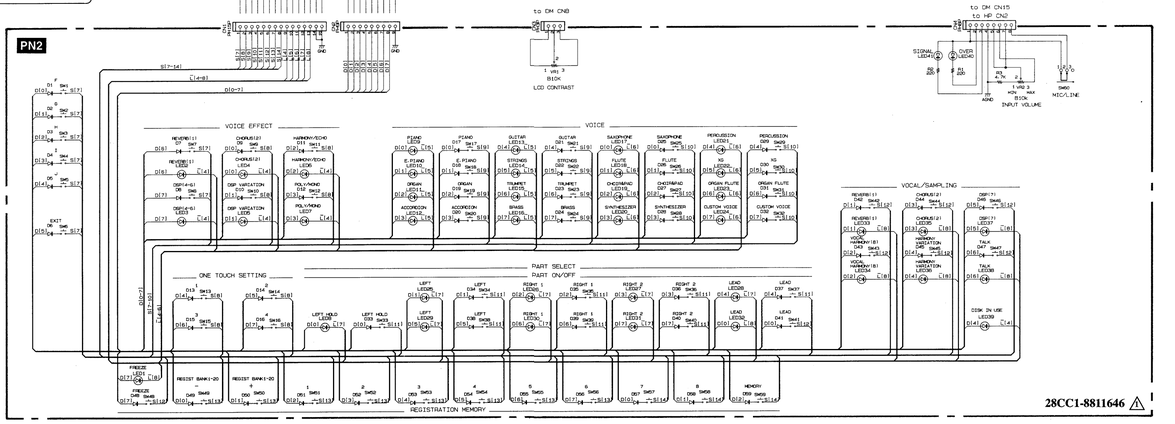
PSR-8000

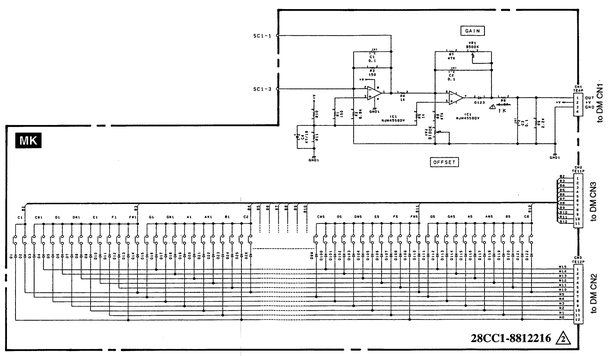
■ PSR-8000 OVERALL CIRCUIT DIAGRAM 2/2(PN1,PN2,JACK,ES,AM,VR,HP,RY,ROM,INV,MK)

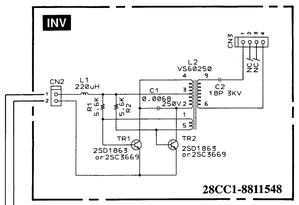


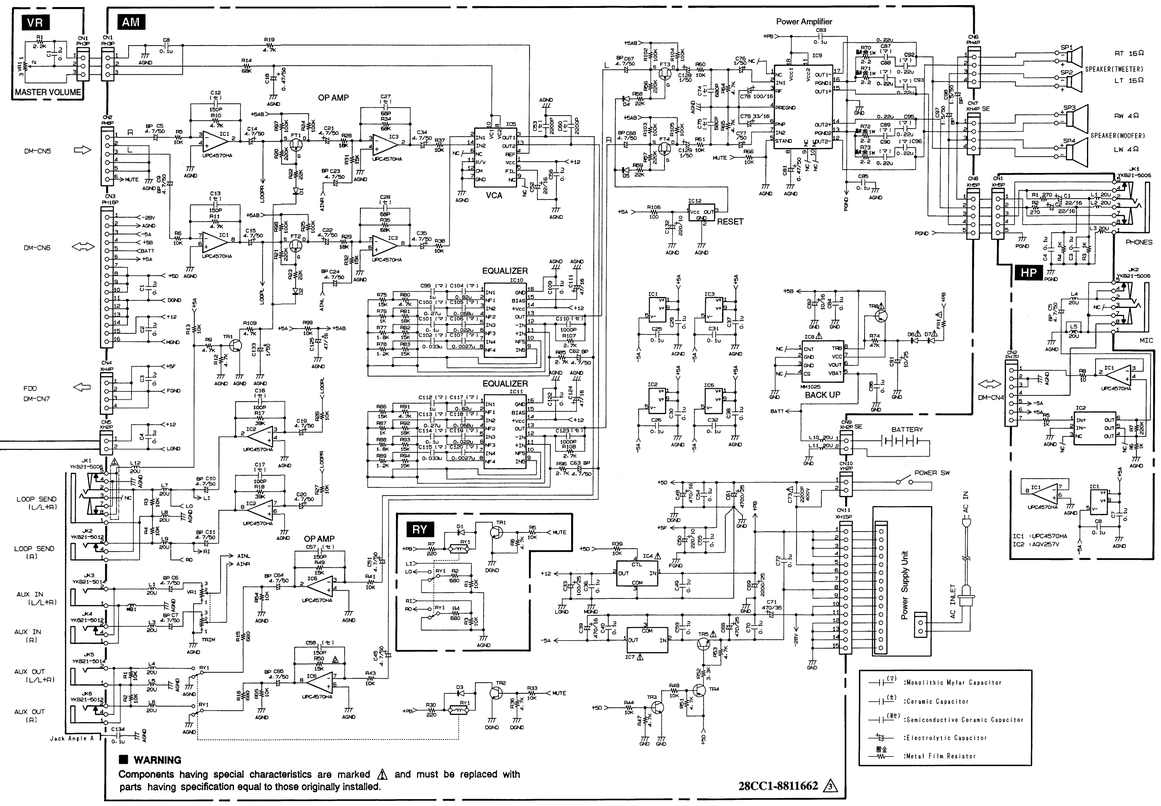


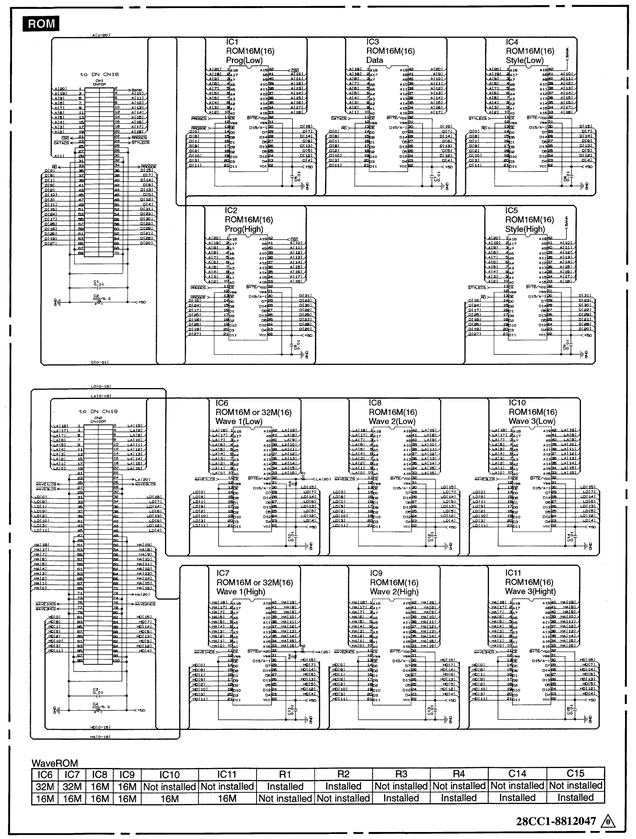












WaveROM										
IC6	IC7	IC8	IC9	IC10	IC11	R1	R2	R3	R4	C14	C15
32M	32M	16M	16M	Not installed	Not installed	Installed	Installed	Not installed	Not installed	Not installed	Not installed
16M	16M	16M	16M	16M	16M	Not installed	Not installed	Installed	Installed	Installed	Installed

- ●PQ12RF1 (XH526A00) REGULATOR +12V — 1: INPUT 2: GND 3: OUTPUT 4: ON/OFF CONTROL
- ●μPC2933T (XS516A00) REGULATOR +3.3V — 1: V in 2: GND 3: V out
- ●NJM79M05FA (XE436A00) REGULATOR −5V — 1: GND 2: INPUT 3: OUTPUT
- ●AN79L18 (XP771A00) REGULATOR −18V — 1: GND 2: INPUT 3: OUTPUT
- ●2SB1565 E,F (VS883300) 2SD2394 E,F (VS883400) TRANSISTOR — 1: BASE 2: COLLECTOR 3: EMITTER
- ●11ES4 (VB481900) DIODE — 1: ANODE 2: CATHODE
- ●2SA933S Q,R (IA093320) TRANSISTOR — 1: EMITTER 2: COLLECTOR 2: BASE

■ WARNING
Components having special characteristics are marked ⚠ and must be replaced with parts having specification equal to those originally installed.

28CC1-8811662 ⚠

Note : See parts list for details of circuit board component parts.