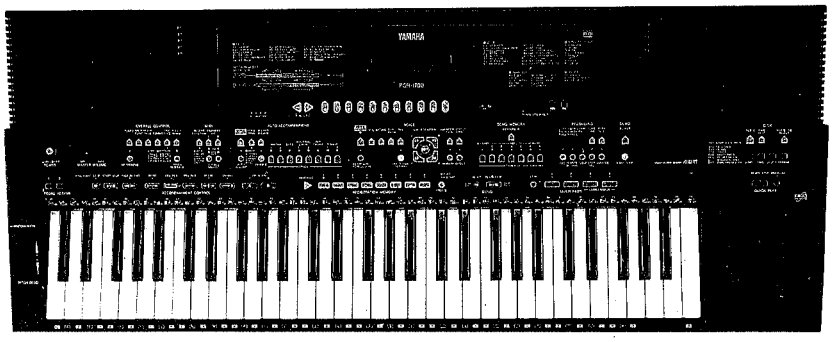
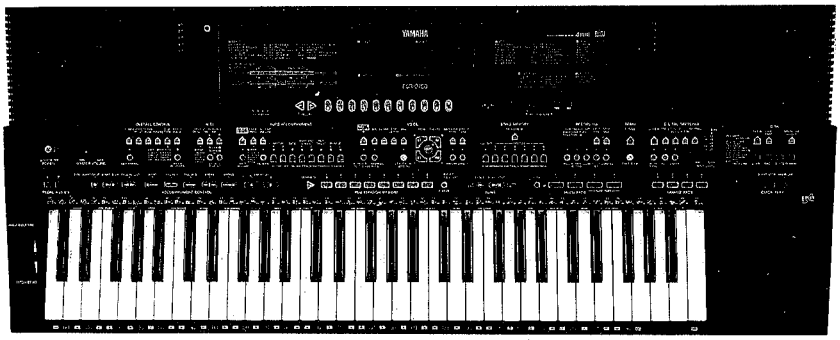
PORTATONE

PSR-1700/PSR-2700

SERVICE MANUAL



PSR-1700



PSR-2700

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PK 001493

YAMAHA CORP.
HAMAMATSU, JAPAN
2.37K-286 ⊖ Printed in Japan '94.01

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 principle-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 specifications equal to those originally installed.

SPECIFICATIONS

Keyboards:
61 standard-size keys (C1~C6) with touch response.

VOICE:
AWM128 voices: 01~128
Polyphony: 28
KEYBOARD PERCUSSION: 1~8
VOL: 00~24
OCTAVE: -2~2
DSP DEPTH: 00~15
PAN: -7~7
ONE TOUCH SETTING
ORCHESTRATION: R1/R2/L1/L2
HARMONY: TYPE 01~10, ON/OFF
EFFECT: TYPE 01~12, ON/OFF

Setup:
POWER: ON/OFF
MASTER VOLUME: MIN~MAX

PEDAL ASSIGN:
1, 2

OVERALL CONTROL:
TEMPO
METRONOME: ON/OFF
SPLIT POINT
TRANSPOSE: -12~12
TUNING: -16~16
DSP TYPE: 1~8
TOUCH: SENSE 1~5,
TOUCH RESPONSE ON/OFF
PITCH BEND: -12~12
MODULATION: 1~3

AUTO ACCOMPANIMENT:
100 styles: 00~99
(00: Custom Accompaniment)
AUTO ACCOMP: ON/OFF
FINGERING: 1~5
ACCOMP VOLUME: 00~24
REVOICE
TRACK: RHYTHM 1/2, BASS, RHYTHMIC CHORD 1/2, PAD CHORD, PHRASE 1/2
ACCOMPANIMENT CONTROL: SYNC-START/STOP, START/STOP, FADE IN/OUT, INTRO, FILL IN 1, FILL IN 2, BREAK, ENDING, VARIATION A/B

REGISTRATION MEMORY:
MEMORIZE
1~8
FREEZE

MULTI PADS:
STOP
1~4 (including 2 chord-match types).

DEMO:
SONG #: Chain Play, 1~8 (8 songs)
START/STOP

SONG MEMORY:
MEASURE #
TRACK: ACCOMP, MELODY 1~6

SONG:
RESET (STEP BWD),
PLAY/STOP (STEP FWD)

RECORDING:
REC, REWRITE SETTING, CLEAR, STEP REC, QUANTIZE, GATE TIME, STEP SIZE

DIGITAL SAMPLING (PSR-2700):
VOICE #: 01~128 (26-note polyphony), VOICE NAME, FREQ, TRIGGER LEVEL, PITCH, MAPPING, REC, CLEAR, INPUT LEVEL

SAMPLE PADS (PSR-2700):
1~4

DISK:
FILE #, SAVE PART, MINUS ONE SELECT, LOAD, SAVE, DELETE, FORMAT

QUICK PLAY:
START/STOP, MINUS ONE

ARE YOU SURE ?:
YES, NO

LCD Display Panel:
Number Buttons: [+], [–], [0]~[9], [+/–]
Data Dial

MIDI:
RECEIVE CH/CL/COM, TRANSMIT CH L/R (LOCAL/MIDI OUT)

Auxiliary Jacks:
MIDI IN/OUT/THRU, PEDAL 1/2,
SAMPLE IN (MIC/LINE: PSR-2700),
AUX OUT (L+R/L, R), HEADPHONES

Main Amplifiers:
8W x 2
AUX OUT output: 680Ω impedance.

Speakers:
12cm (4-3/4") x 2

Backup Batteries:
Four SUM-3, "AA" size, R6P or equivalent batteries

Dimensions (W x D x H):
1045mm x 412mm x 164mm
(41-1/8" x 16-1/4" x 6-1/2")

Weight:
12.0kg (26.4 lbs.) excluding batteries

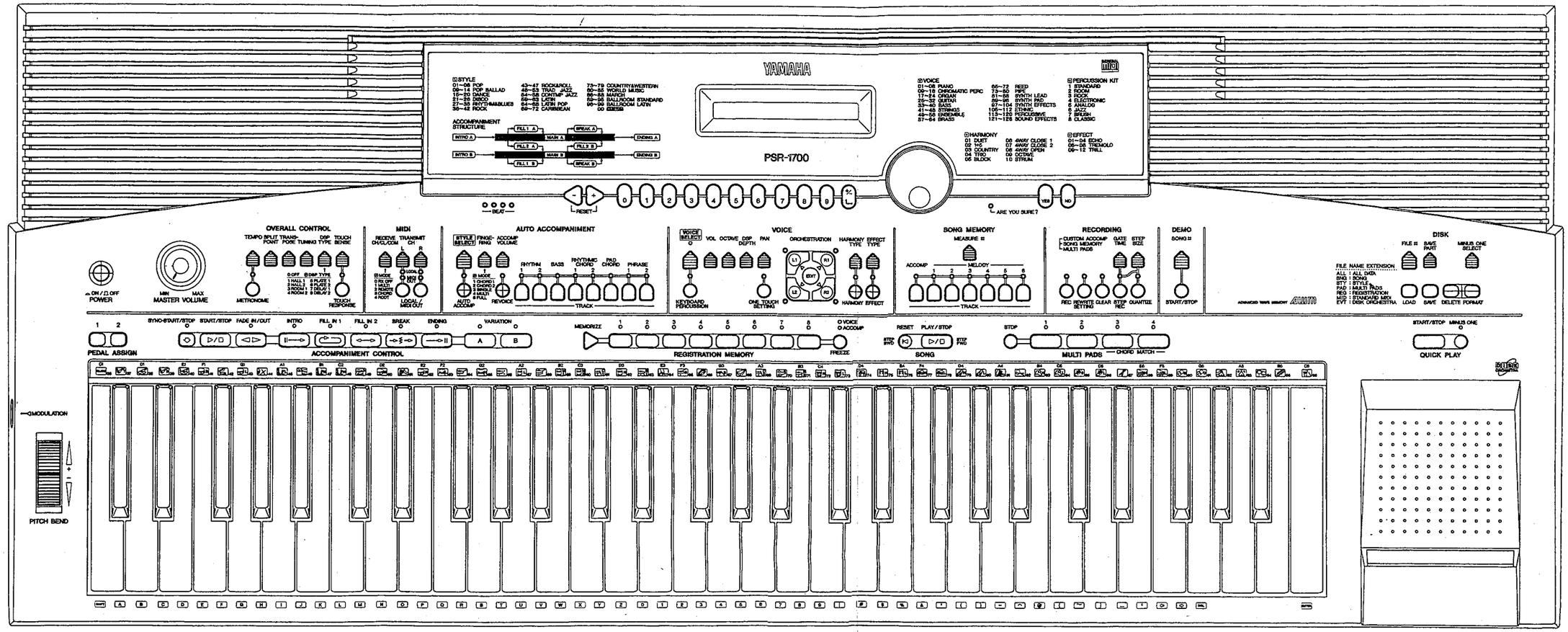
Supplied Accessories:
- PSR-1700/2700 Demonstration Disk
  Demo Songs (4 songs): 01~04
  Styles (8 styles with registration data): 05~12
  Multi Pads (8 sets): 13~20
  Sound Effects (4 sets): 21~24
- PSR-2700 Demonstration Disk (PSR-2700)
  Demo Songs (2 songs with sampled voices): 01~02
- Music Stand
- Owner's Manual

Optional Accessories:
- Headphones HPE-3, HPE-150
- Foot switch FC4, FC5
- Foot controller FC7

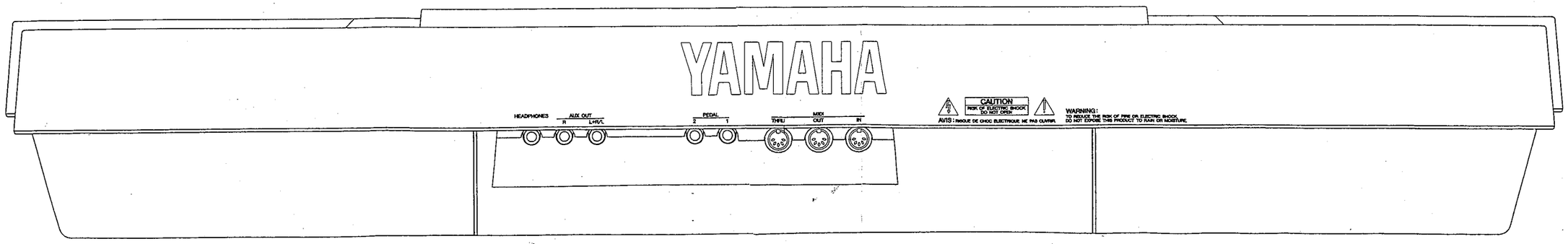
■ PANEL LAYOUT

(PSR-1700)

- **Front Panel**



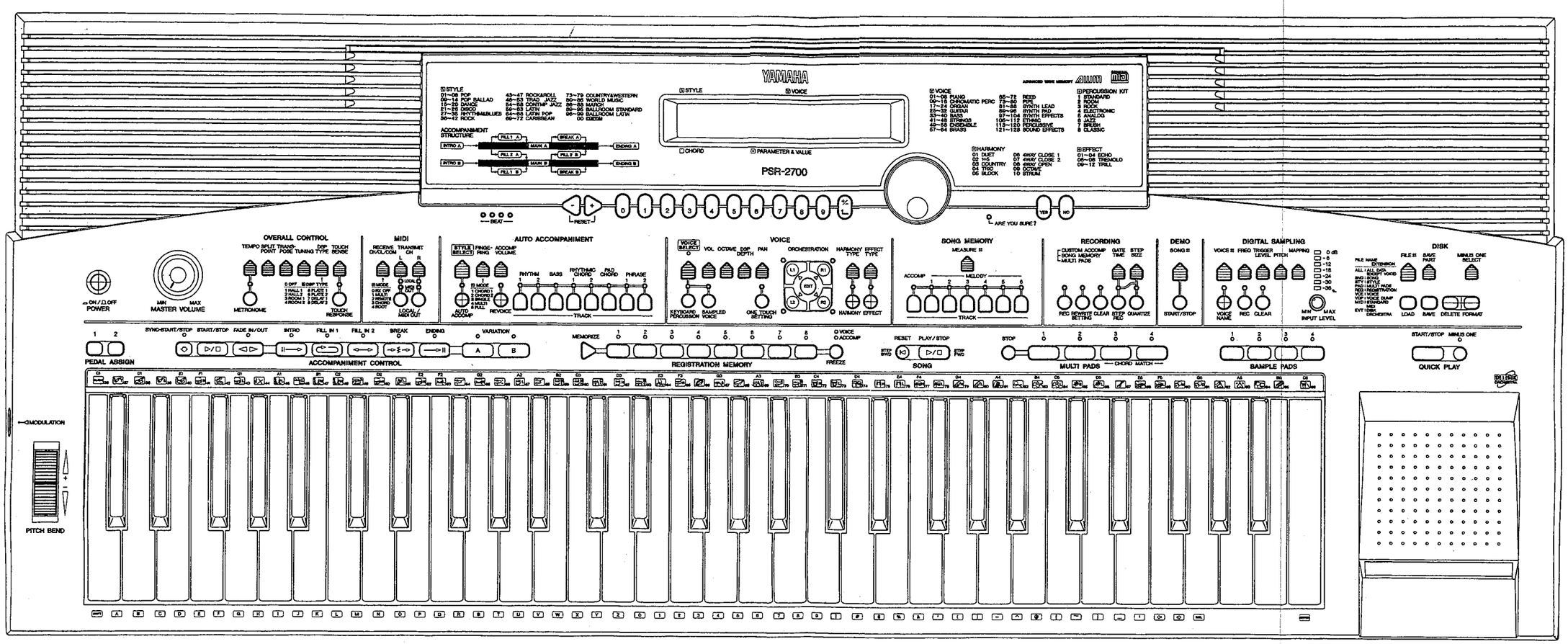
- **Rear Panel**



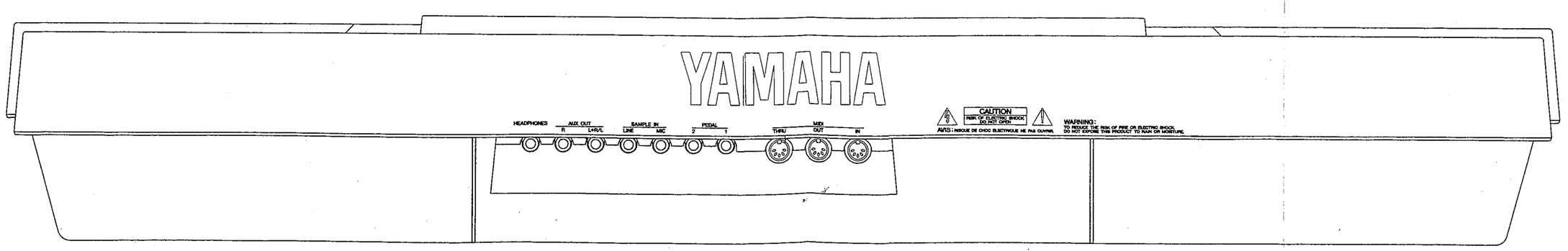
PSR-1700/PSR-2700

(PSR-2700)

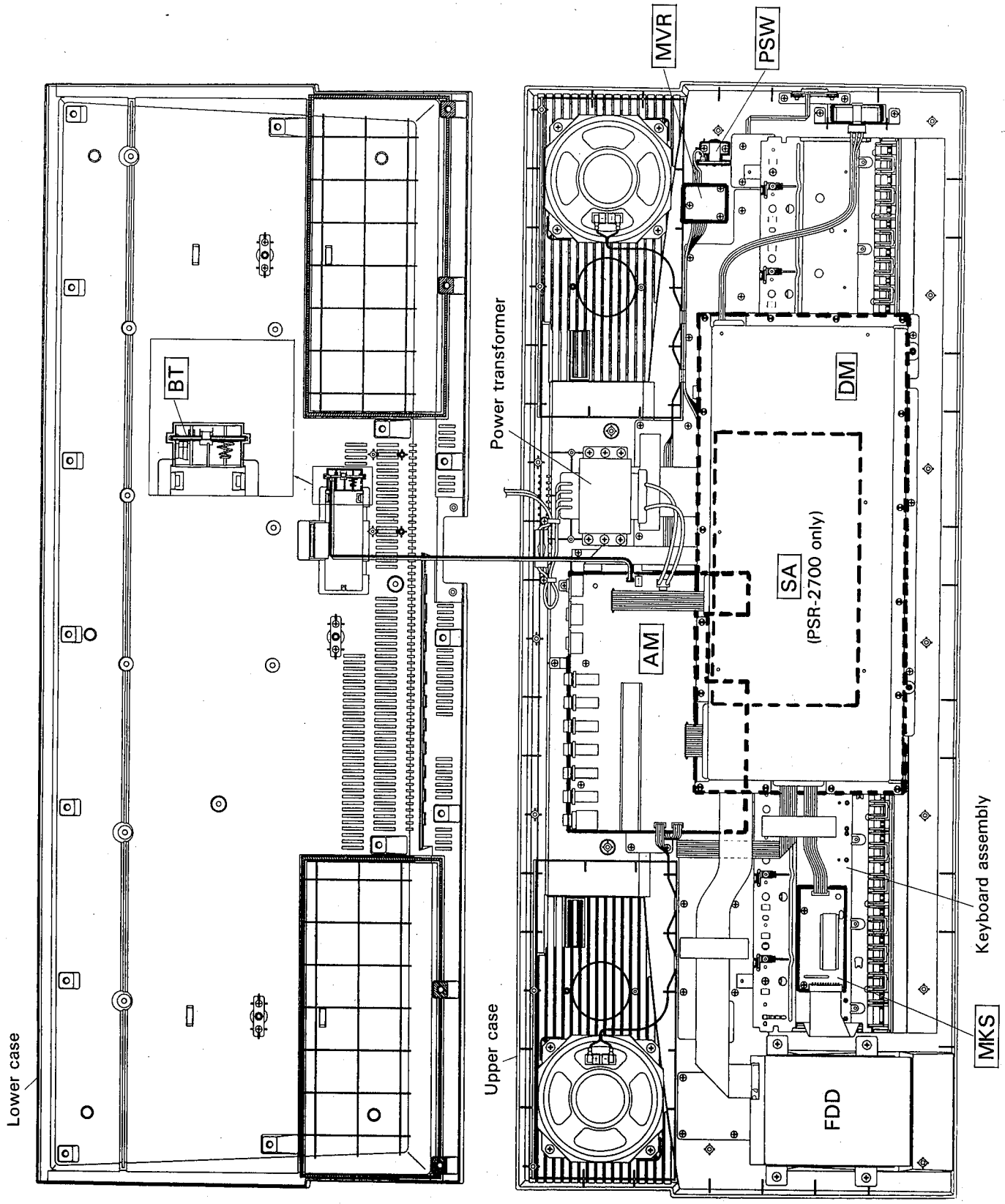
- **Front Panel**

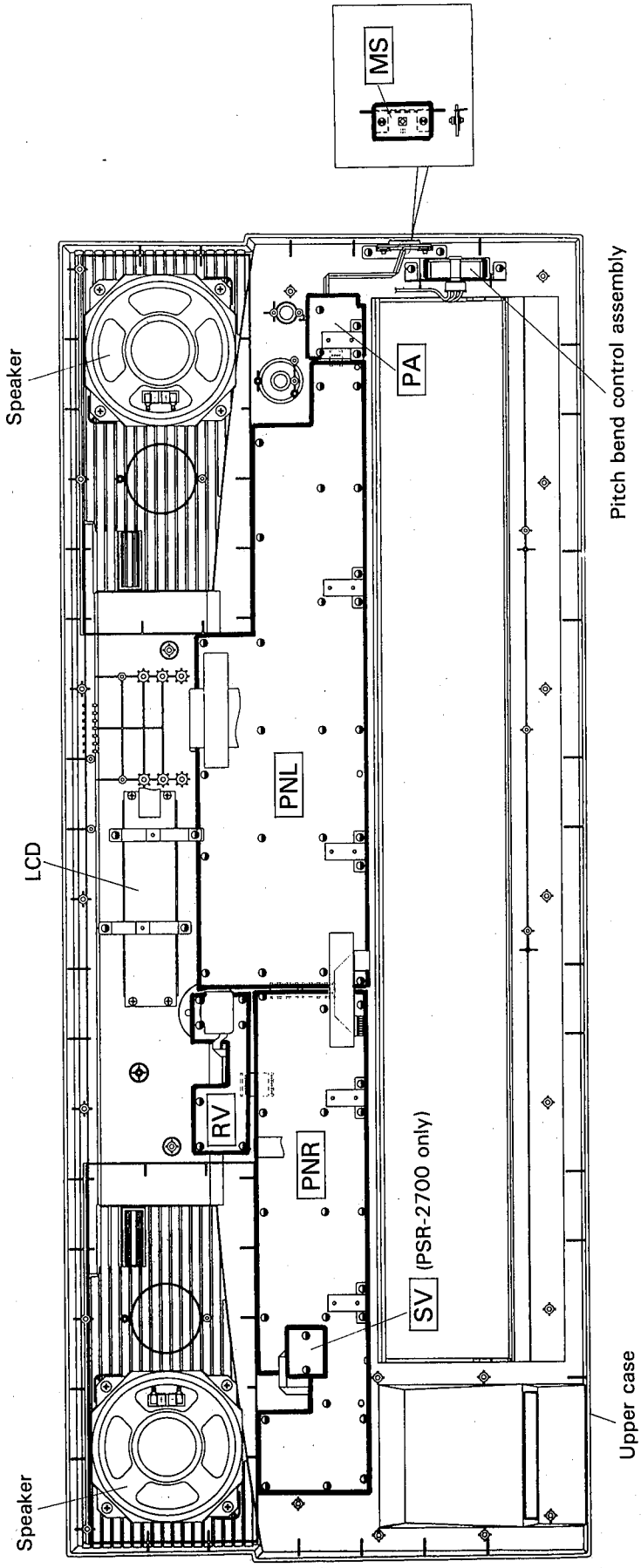


- **Rear Panel**



■ CIRCUIT BOARD LAYOUT

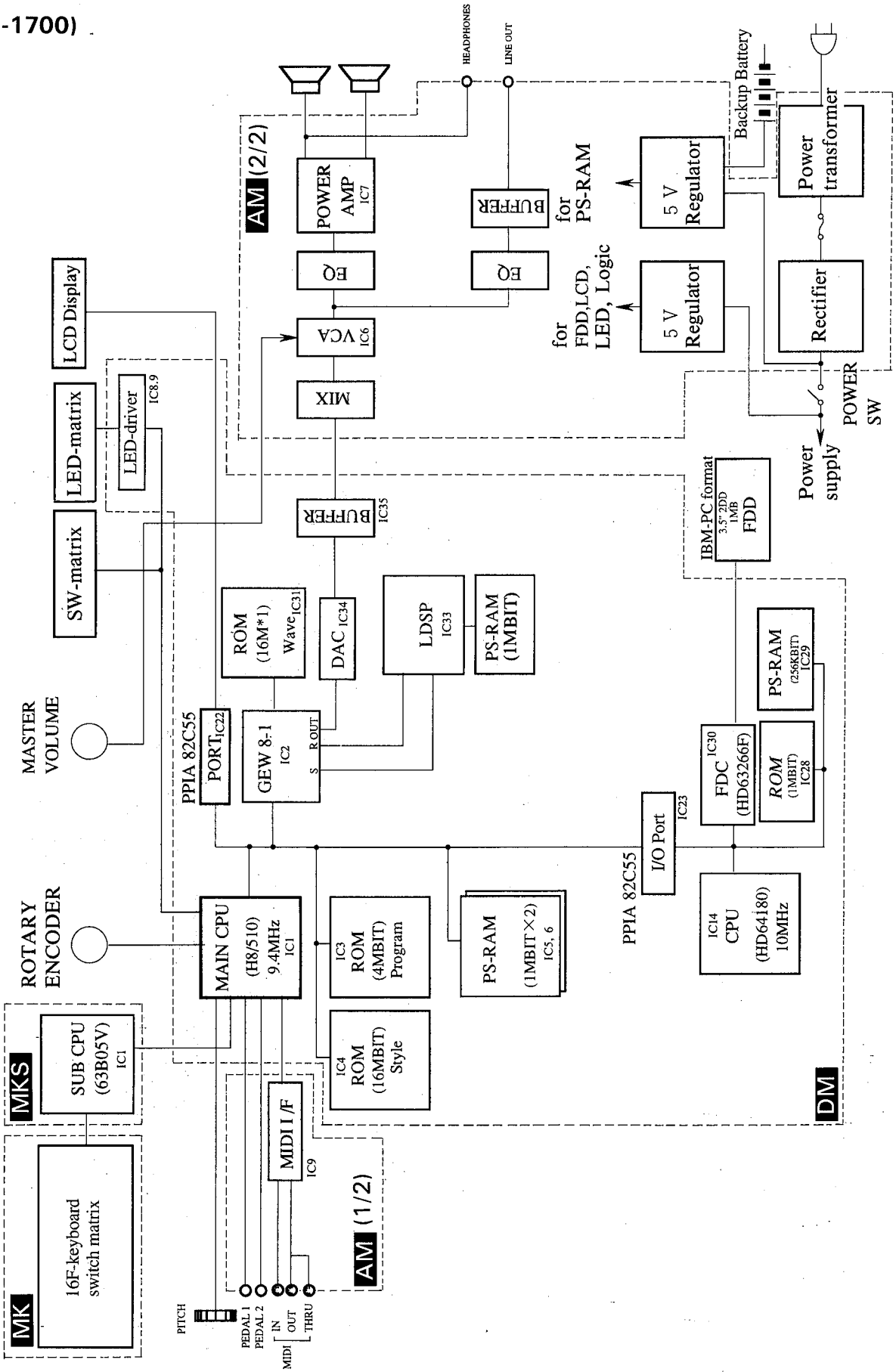


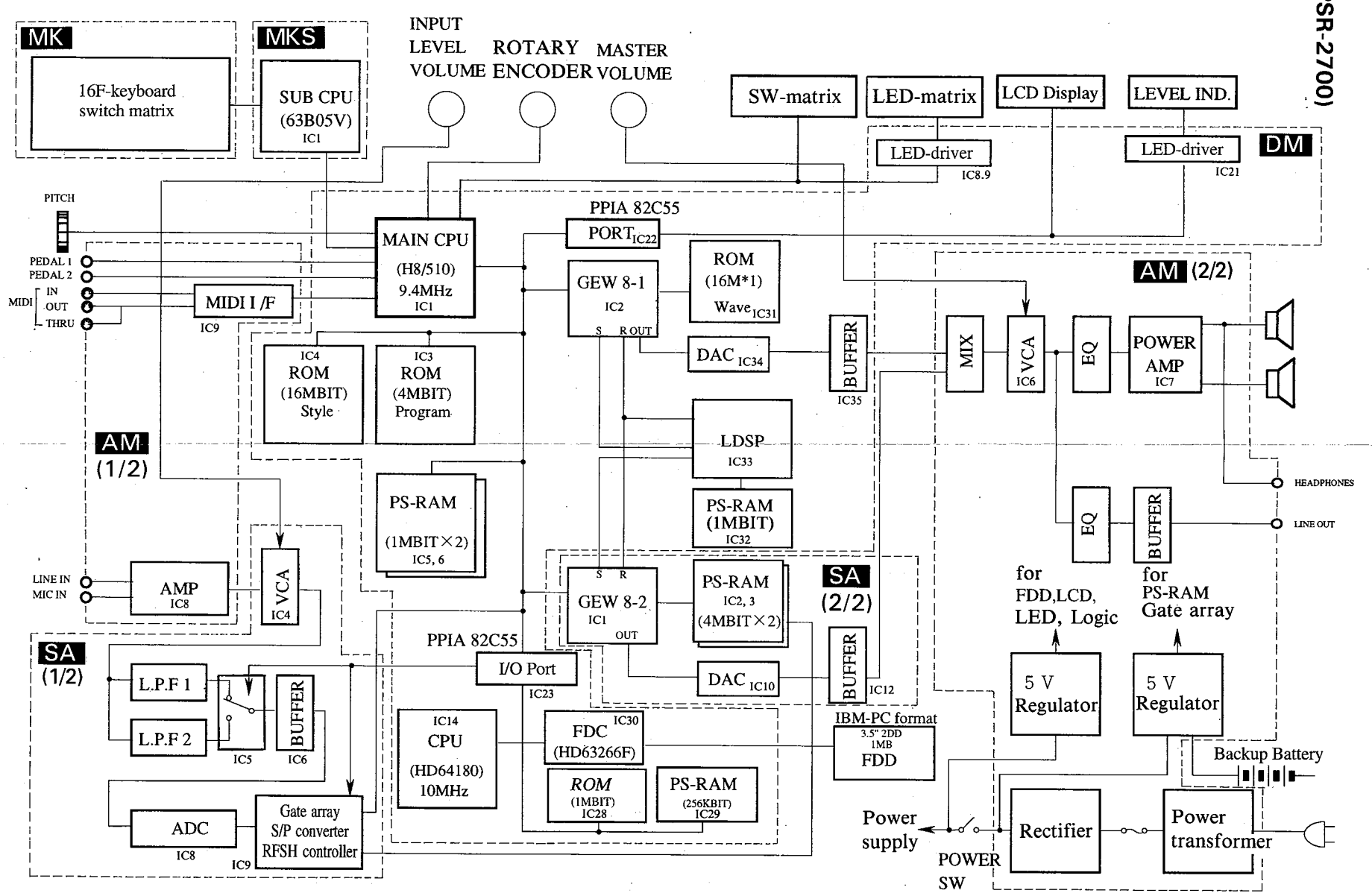


* Keyboard assembly, Power transformer, FDD and
DM, SA, AM, PSW, MVR, MKS circuitboards have been removed.

■BLOCK DIAGRAM

(PSR-1700)




(PSR-2700)
MK
16F-keyboard switch matrix
MKS
SUB CPU (63B05V) IC1
INPUT LEVEL VOLUME
ROTARY ENCODER
MASTER VOLUME
SW-matrix
LED-matrix
LCD Display
LEVEL IND.
LED-driver IC8.9
LED-driver IC21
DM
PITCH
PEDAL 1
PEDAL 2
MIDI IN
OUT
THRU
MIDI I /F IC9
MAIN CPU (H8/510) 9.4MHz IC1
PPIA 82C55
PORT IC22
GEW 8-1 IC2
ROM (16M*1) Wave IC31
S R OUT
DAC IC34
BUFFER IC35
AM (2/2)
MIX
VCA IC6
EQ
POWER AMP IC7
IC4 ROM (16MBIT) Style
IC3 ROM (4MBIT) Program
AM (1/2)
LDSP IC33
PS-RAM (1MBIT) IC32
PS-RAM (1MBIT×2) IC5, 6
HEADPHONES
LINE OUT
EQ
BUFFER
LINE IN
MIC IN
AMP IC8
VCA IC4
S R
GEW 8-2 IC1
OUT
PS-RAM IC2, 3 (4MBIT×2)
SA (2/2)
for FDD,LCD, LED, Logic
for PS-RAM Gate array
SA (1/2)
PPIA 82C55
I/O Port IC23
DAC IC10
BUFFER IC12
5 V Regulator
5 V Regulator
L.P.F 1
L.P.F 2
IC5
BUFFER IC6
IC14 CPU (HD64180) 10MHz
FDC IC30 (HD63266F)
IBM-PC format 3.5" 2DD 1MB FDD
Backup Battery
ROM (1MBIT) IC28
PS-RAM (256KBIT) IC29
ADC IC8
Gate array S/P converter RFSH controller IC9
Power supply
POWER SW
Rectifier
Power transformer

■ DISASSEMBLY PROCEDURE

1. Lower Case Assembly Removal

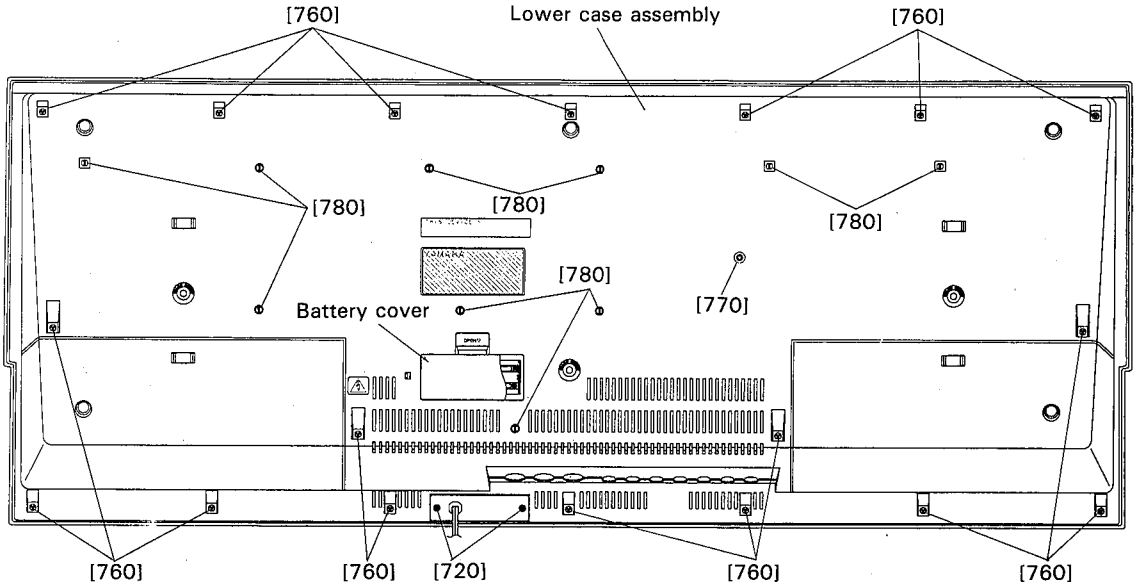
1-1. Remove the battery cover. (Fig.1)

1-2. Remove the eighteen (18) screws marked [760] and ten (10) screws marked [780]. (Fig. 1)

1-3. Remove the one (1) screw marked [770] and two (2) screws marked [720], then the lower case assembly can be removed. (Fig. 1)

* This will give you access to the circuit boards as shown in the figure 2.

(1) PSW circuit board
(2) MVR circuit board
(3) MKS circuit board
(4) BT circuit board
(5) Power transformer
(6) Pitch bend control assembly
(7) Speakers



[720]:BIND HEAD TAPPING SCREW-P 4.0 × 8 FCM3BL(EP640240)
[760]:BIND HEAD TAPPING SCREW-P 4.0 × 12 ZMC2BL(VA847600)
[770]:BIND HEAD TAPPING SCREW-S 3.0 × 16 ZMC2Y(VF347000)
[780]:BIND HEAD TAPPING SCREW-S 3.0 × 8 ZMC2BL(EP600530)

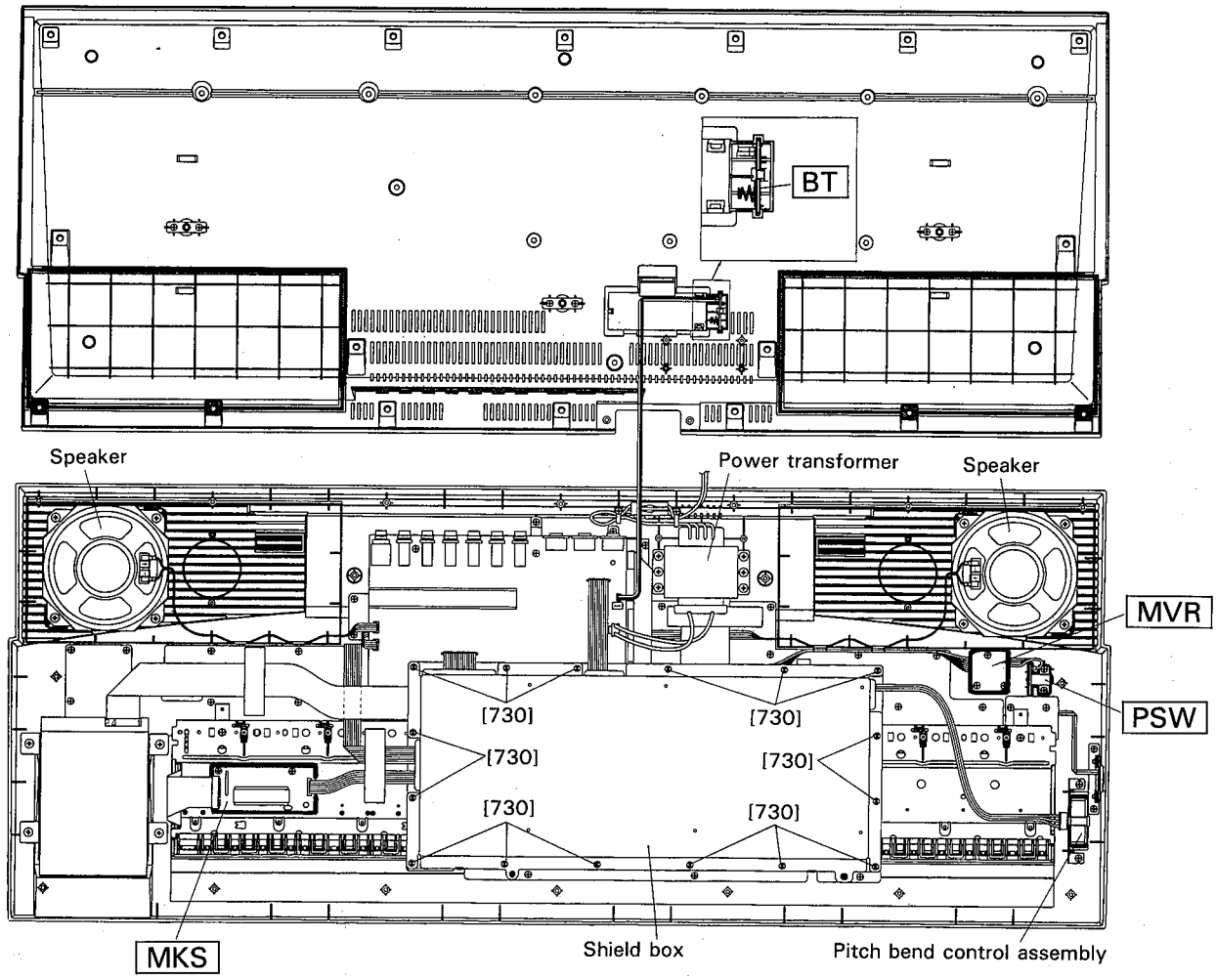
(Fig. 1)

2. DM circuit board Removal

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

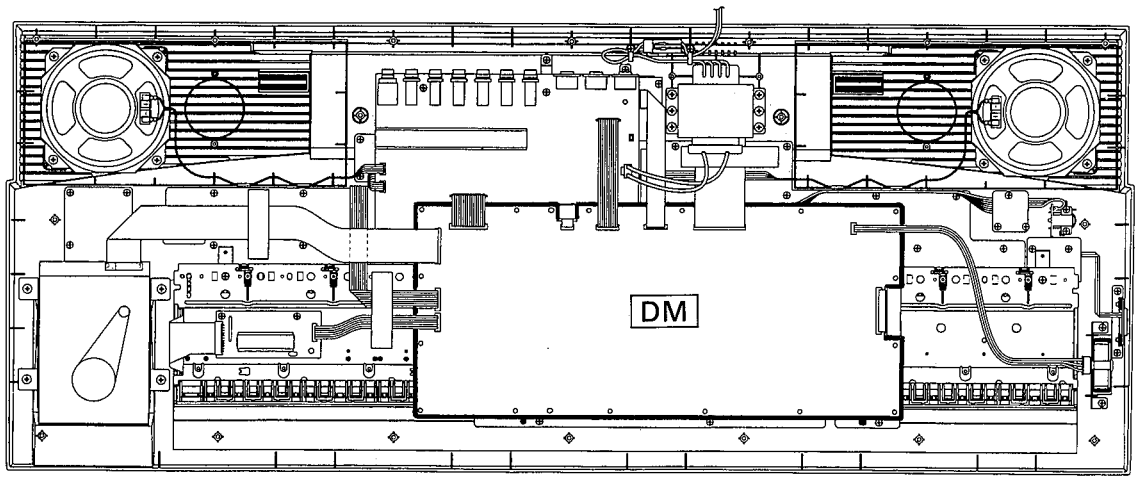
2-2. Remove the sixteen (16) screws marked [730], then remove the shield box. (Fig. 2)

2-3. Then the DM circuit board can be removed. (Fig. 3)



[730]:BIND HEAD TAPPING SCREW-S 3.0 × 6 ZMC2Y(EP600410)

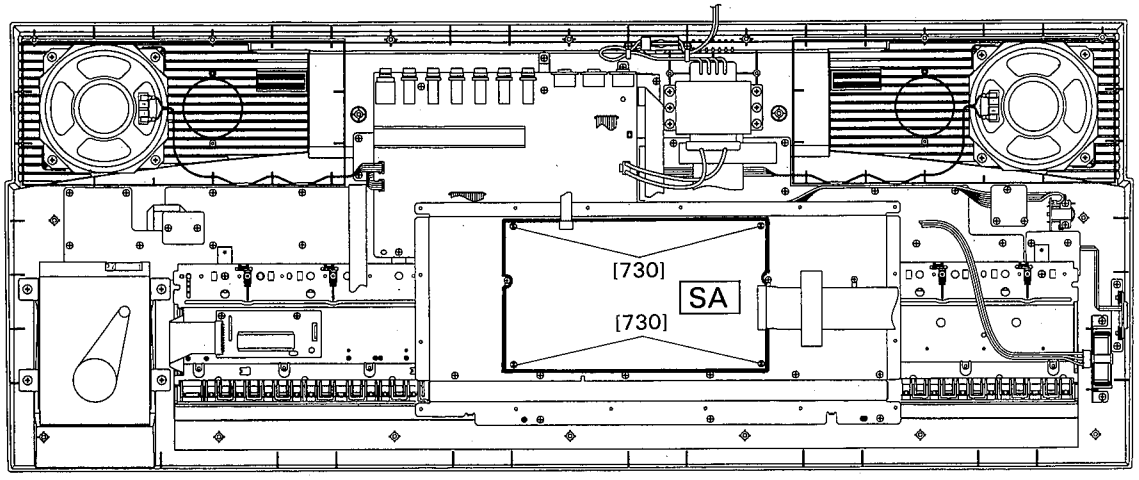
(Fig. 2)



(Fig. 3)

3. SA circuit board Removal (PSR-2700 only)

3-1. Remove the lower case assembly. (see procedure 1)
3-2. Remove the DM circuit board. (see procedure 2)
3-3. Remove the four (4) screws marked [730], then the SA circuit board can be removed. (Fig. 4)

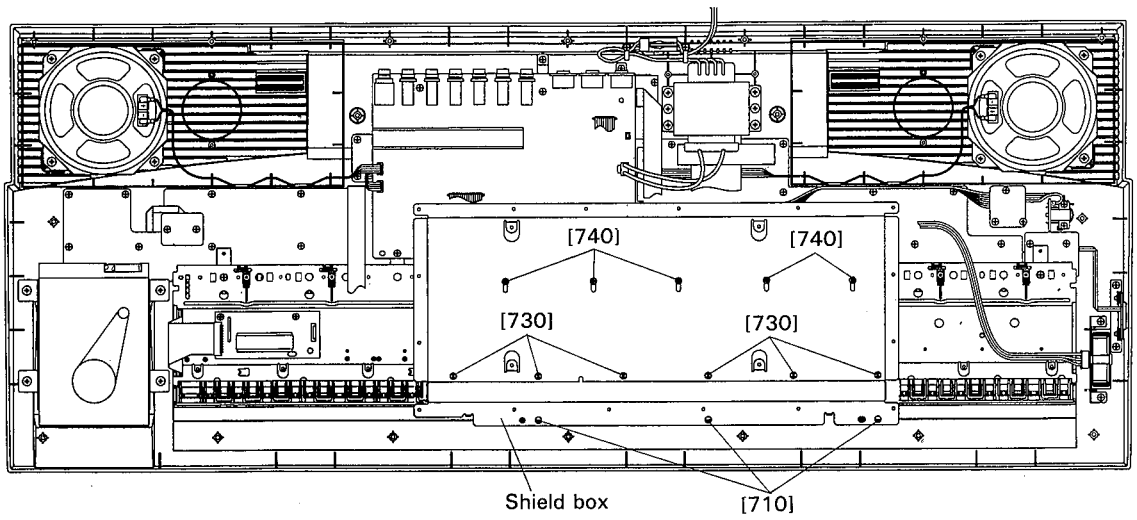


[730]:BIND HEAD TAPPING SCREW-S 3.0 × 6 ZMC2Y(EP600410)

(Fig. 4)

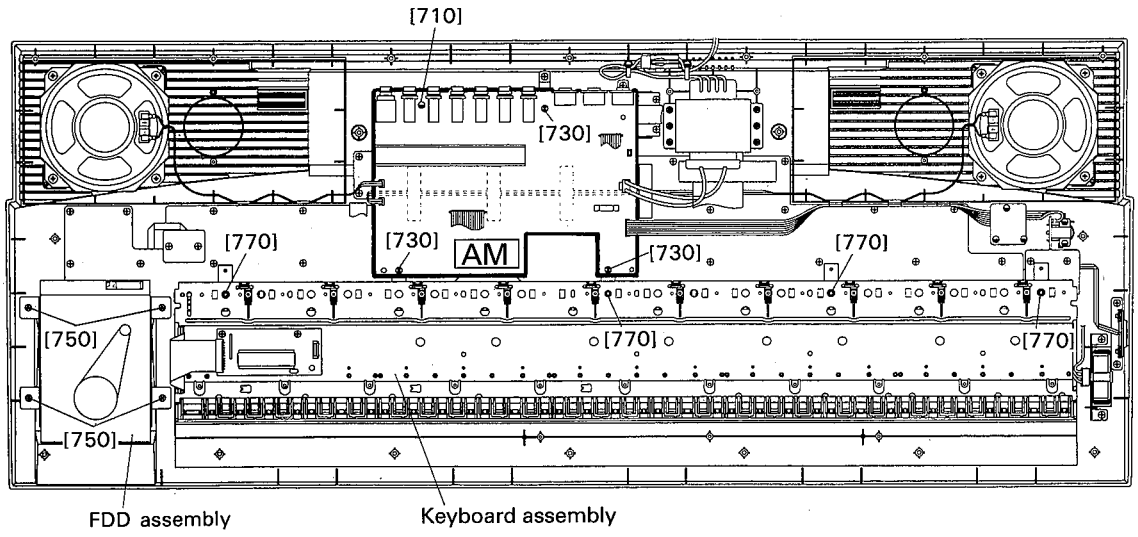
4. AM circuit board Removal

4-1. Remove the lower case assembly. (see procedure 1)
4-2. Remove the DM circuit board. (see procedure 2)
4-3. Remove the SA circuit board. (see procedure 3)
4-4. Remove the five (5) screws marked [740] and six (6) screws marked [730] and three (3) screws marked [710], then remove the shield box. (Fig. 5)
4-5. Remove the three (3) screws marked [730] and one (1) screw marked [710], then the AM circuit board can be removed. (Fig. 6)



[710]:BIND HEAD TAPPING SCREW-P 3.0×8 ZMC2Y(EP600280)
[730]:BIND HEAD TAPPING SCREW-S 3.0×6 ZMC2Y(EP600410)
[740]:BIND HEAD TAPPING SCREW-P 2.6×8 ZMC2Y(EP620100)

(Fig. 5)



[710]:BIND HEAD TAPPING SCREW-P 3.0×8 ZMC2Y(EP600280)
[730]:BIND HEAD TAPPING SCREW-S 3.0×6 ZMC2Y(EP600410)
[750]:BIND HEAD TAPPING SCREW-P 4.0×14 ZMC2Y(VA847500)
[770]:BIND HEAD TAPPING SCREW-S 3.0×16 ZMC2Y(VF347000)

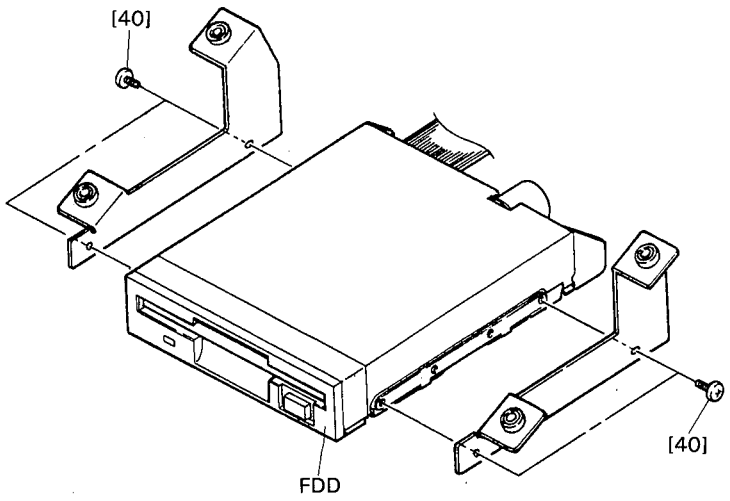
(Fig. 6)

5. Keyboard Assembly Removal

5-1. Remove the lower case assembly. (see procedure 1)
5-2. Remove the DM circuit board. (see procedure 2)
5-3. Remove the SA circuit board. (see procedure 3)
5-4. Remove the shield box. (see procedure 4-4)
5-5. Remove the four (4) screws marked [770], then the keyboard assembly can be removed. (Fig. 6)

6. FDD Removal

6-1. Remove the lower case assembly. (see procedure 1)
6-2. Remove the four (4) screws marked [750], then remove the FDD assembly. (Fig. 6)
6-3. Remove the four (4) screws marked [40], then remove the FDD from the FDD assembly. (Fig. 7)



[40]:PAN HEAD SCREW 3.0 × 5 ZMC2Y(EJ030056)

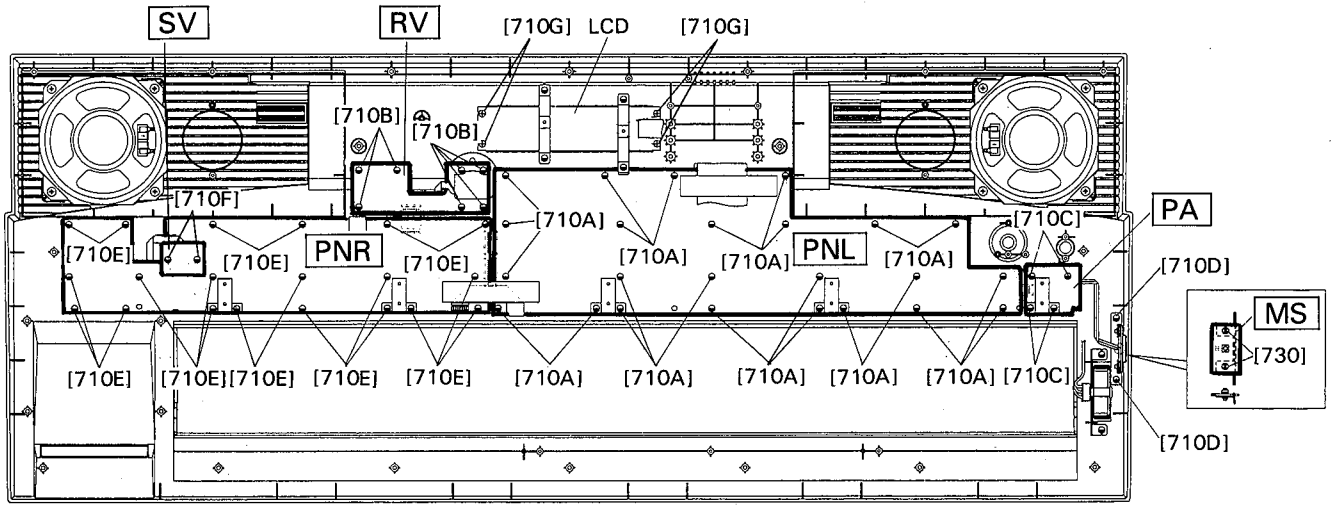
(Fig. 7)

7. PNL circuit board Removal

7-1. Remove the lower case assembly. (see procedure 1)
7-2. Remove the DM circuit board. (see procedure 2)
7-3. Remove the SA circuit board. (see procedure 3)
7-4. Remove the AM circuit board. (see procedure 4)
7-5. Remove the keyboard assembly. (see procedure 5)
7-6. Remove the twenty-four (24) screws marked [710A], then the PNL circuit board can be removed. (Fig. 8)

8. RV circuit board Removal

8-1. Remove the lower case assembly. (see procedure 1)
8-2. Remove the DM circuit board. (see procedure 2)
8-3. Remove the SA circuit board. (see procedure 3)
8-4. Remove the AM circuit board. (see procedure 4)
8-5. Remove the seven (7) screws marked [710B], then the RV circuit board can be removed. (Fig. 8)



[710]:BIND HEAD TAPPING SCREW-P 3.0×8 ZMC2Y(EP600280)
[730]:BIND HEAD TAPPING SCREW-S 3.0×6 ZMC2Y(EP600410)

(Fig. 8)

9. PA circuit board Removal

9-1. Remove the lower case assembly. (see procedure 1)
9-2. Remove the DM circuit board. (see procedure 2)
9-3. Remove the SA circuit board. (see procedure 3)
9-4. Remove the shield box. (see procedure 4-4)
9-5. Remove the keyboard assembly. (see procedure 5)
9-6. Remove the four (4) screws marked [710C], then the PA circuit board can be removed. (Fig. 8)

10. MS circuit board Removal

10-1. Remove the lower case assembly. (see procedure 1)
10-2. Remove the two (2) screws marked [710D]. (Fig. 8)
10-3. Remove the two (2) screws marked [730], then the MS circuit board can be removed. (Fig. 8)

11. PNR circuit board Removal

11-1. Remove the lower case assembly. (see procedure 1)
11-2. Remove the DM circuit board. (see procedure 2)
11-3. Remove the SA circuit board. (see procedure 3)
11-4. Remove the AM circuit board. (see procedure 4)
11-5. Remove the keyboard assembly. (see procedure 5)
11-6. Remove the twenty (20) screws marked [710E], then the PNR circuit board can be removed. (Fig. 8)

12. SV circuit board Removal (PSR-2700 only)

12-1. Remove the lower case assembly. (see procedure 1)
12-2. Remove the two (2) screws marked [710F], then the SV circuit board can be removed. (Fig. 8)

13. LCD Removal

13-1. Remove the lower case assembly. (see procedure 1)
13-2. Remove the DM circuit board. (see procedure 2)
13-3. Remove the SA circuit board. (see procedure 3)
13-4. Remove the AM circuit board. (see procedure 4)
13-5. Remove the four (4) screws marked [710G], then the LCD can be removed. (Fig. 8)

■ LSI PIN DESCRIPTION

• HD6415108F10 <H8/510> (XJ797A00) CPU

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	$\overline{RES}$	I	Reset	57	P41	I/O	
2	NMI	I	Non-maskable interrupt	58	P42	I/O	
3	VSS		Ground	59	P43	I/O	Port 4
4	D0	I/O		60	P44	I/O	
5	D1	I/O		61	P45	I/O	
6	D2	I/O		62	P46	I/O	
7	D3	I/O		63	P47	I/O	
8	D4	I/O		64	VSS		Ground
9	D5	I/O	Data bus	65	P50	I/O	
10	D6	I/O		66	P51	I/O	
11	D7	I/O		67	P52	I/O	
12	D8	I/O		68	P53	I/O	
13	D9	I/O		69	P54	I/O	Power supply
14	D10	I/O		70	P55	I/O	
15	D11	I/O		71	P56	I/O	
16	D12	I/O		72	P57	I/O	
17	D13	I/O		73	P60	I/O	
18	D14	I/O		74	P61	I/O	
19	D15	I/O		75	P62	I/O	
20	VSS		Ground	76	P63	I/O	Port 6
21	A0	O		77	P64	I/O	
22	A1	O		78	P65	I/O	
23	A2	O		79	P66	I/O	
24	A3	O		80	P67	I/O	
25	A4	O		81	VSS		Ground
26	A5	O		82	AVSS		Analog ground
27	A6	O	Address bus	83	AN0	I	
28	A7	O		84	AN1	I	Analog signal input
29	A8	O		85	AN2	I	
30	A9	O		86	AN3	I	
31	A10	O		87	AVCC		Analog power supply
32	A11	O		88	VCC		Power supply
33	A12	O		89	P80/IRQ0	I/O	
34	A13	O		90	P81/IRQ1	I/O	
35	A14	O		91	P82/SCK1	I/O	Port 8
36	A15	O		92	P83/SCK2	I/O	
37	VSS	O	(Ground)	93	P84/RXD1	I/O	
38	A16	O		94	P85/TXD1	I/O	
39	A17	O		95	P86/RXD2	I/O	
40	A18	O		96	P87/TXD2	I/O	
41	A19	O		97	VSS		Ground
42	A20	O		98	EXTAL		Clock
43	A21	O		99	XTAL		
44	A22	O		100	VSS		Ground
45	A23	O		101	ø	O	Sync-signal
46	VSS		Ground	102	$\overline{E}$	O	Enable
47	P30/$\overline{WAIT}$	I/O		103	$\overline{AS}$	O	Address strobe
48	P31	I/O		104	$\overline{RD}$	O	Read control
49	P32	I/O		105	$\overline{HWR}$	O	H/Write control
50	P33	I/O	Port 3	106	$\overline{LWR}$	O	L/Write control
51	P34	I/O		107	$\overline{RFSH}$	I	Refresh
52	P35	I/O		108	VCC		Power supply
53	P36	I/O		109	MD0	I	
54	P37	I/O		110	MD1	I	Mode select
55	VCC		Power supply	111	MD2	I	
56	P40	I/O	Port 4	112	$\overline{STBY}$	I	Stand-by mode signal

• LC78865M (XM988A00) ADC (Analog to Digital Converter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	ADIN	I	Analog input	11	DATAO	O	Digital data output
2	VH	I	Reference voltage "H"	12	TEST0	O	
3	NC			13	TEST1	I	Test pin
4	AVDD		Analog power supply	14	TEST2	I	
5	TEST6	I	Test pin	15	DGND		Digital ground
6	TEST4	I		16	VL	I	
7	XCS	I	Control signal input	17	AGND		Analog ground
8	XCLK	I	Clock	18	NC		
9	SCK	I	System clock	19	NC		
10	DVDD		Digital power supply	20	NC		

• HD63B05V (XN040B00) CPU (Key Scanner)

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

• HD64180ZRP10 (XM744A00) CPU (Z80)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	Vss		Ground	33	Vss		Ground
2	XTAL	I	Crystal oscillator	34	D0	I/O	Data bus
3	EXTAL	I		35	D1	I/O	
4	$\overline{WAIT}$	I	Wait	36	D2	I/O	
5	$\overline{BUSACK}$	O	Bus acknowledge	37	D3	I/O	
6	$\overline{BREQ}$	I	Bus request	38	D4	I/O	
7	$\overline{RST}$	I	Reset	39	D5	I/O	
8	$\overline{NMI}$	I	Non maskable interrupt	40	D6	I/O	
9	$\overline{INT0}$	O		41	D7	I/O	
10	$\overline{INT1}$	O	Maskable interrupt level 1-2	42	$\overline{RTS0}$	O	Request to send-ch0
11	$\overline{INT2}$	O	Status	43	$\overline{CTS0}$	I	Clear to send-ch0
12	ST	O		44	$\overline{DCD0}$	I	Data carrier detect-ch0
13	A0	O	Address bus	45	TXA0	O	Asynchronous transmit data-ch0
14	A1	O		46	RXA0	I	Asynchronous receive data-ch0
15	A2	O		47	CKA0/$\overline{DREQ0}$	I/O/O	Asynchronous clock/DMA request-ch0
16	A3	O		48	TXA1	O	Asynchronous transmit data-ch1
17	A4	O		49	RXA1	I	Asynchronous receive data-ch1
18	A5	O		50	CKA1/$\overline{TEND1}$	I/O/O	Asynchronous clock/Transfer end-ch1
19	A6	O		51	TXS	O	Clocked serial transmit data
20	A7	O		52	RXS/$\overline{CTS1}$	I/I	Clocked serial receive data/Clear to send-ch1
21	A8	O		53	$\overline{CKS}$	I/O	Serial clock
22	A9	O		54	$\overline{DRQ1}$	I	DMA request-ch1
23	A10	O		55	$\overline{TE1}$	O	Transfer end ch1
24	A11	O		56	$\overline{HALT}$	O	Halt/Sleep state
25	A12	O		57	$\overline{REF}$	O	Refresh
26	A13	O		58	$\overline{IOE}$	O	I/O enable
27	A14	O		59	$\overline{MEE}$	O	Memory enable
28	A15	O		60	$\overline{E}$	O	Enable
29	A16	O		61	$\overline{LIR}$	O	Load instruction registor
30	A17	O		62	$\overline{WR}$	O	Memory write
31	A18	O		63	$\overline{RD}$	O	Memory read
32	Vcc		Power supply	64	ϕ	O	System clock

• μPD63200GS (XM145A00) DAC (Digital to Analog Converter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	4/8F	I	4/8 fs selection	9	R.REF		R-ch voltage reference
2	D.GND		Digital GND	10	L.REF		L-ch voltage reference
3	16 BIT	I	16 bit/18 bit selection	11	L.OUT	O	L-ch output
4	D.VDD		Digital VDD	12	A.GND		Analog GND
5	A.GND		Analog GND	13	WDCK	I	WORD clock
6	R.OUT	O	R-ch output	14	RSI	I	R-ch series input
7	A.VDD		Analog VDD	15	SI/LSI	I	Series input/L-ch series input
8	A.VDD			16	CLK	I	Clock

• 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	$\overline{TRK0}$	I	Track 00 signal
2	XTALSEL		Clock select	34	$\overline{INDEX}$	I	Index signal
3	$\overline{RESET}$	I	Reset	35	$\overline{RDATA}$	I	Read data input from FDD
4	E/$\overline{RD}$	I	Enable/Read	36	XTAL2		Clock
5	$\overline{WR}$	I	Read/write/Write	37	EXTAL2		
6	$\overline{CS}$	I	Chip select	38	NC		
7	$\overline{DACK}$	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	Data bus	44	Vcc2		Power supply
13	D1	I/O		45	Vcc3		
14	D2	I/O		46	Vcc4		
15	D3	I/O		47	$\overline{WGATE}$	O	Write control
16	D4	I/O		48	$\overline{WDATA}$	O	Write data to FDD
17	D5	I/O		49	Vss6		Ground
18	D6	I/O		50	$\overline{STEP}$	O	Step signal to control head of FDD
19	D7	I/O		51	$\overline{HDIR}$	O	Head direction
20	$\overline{DREQ}$	O	DMA request	52	$\overline{HLOAD}$	O	Head load
21	$\overline{IRQ}$	O	Interrupt request	53	HSEL	O	Head select
22	$\overline{DEND}$	I	Data end	54	Vss7		Ground
23	Vss3		Ground	55	$\overline{DS0}$	O	Drive select
24	1/2EX	O	1/2 EXTAL1	56	$\overline{DS1}$	O	
25	Vcc1		Power supply	57	$\overline{DS2}$	O	
26	NUM1			58	$\overline{DS3}$	O	
27	NUM2			59	Vss8		Ground
28	IFS	I	Host interface select	60	$\overline{MON0}$	O	Motor on
29	SFORM	I	Format data	61	$\overline{MON1}$	O	
30	$\overline{INP}$	I	Index pulse	62	$\overline{MON2}$	O	
31	$\overline{READY}$	I	Ready from FDD	63	$\overline{MON3}$	O	
32	$\overline{WPRT}$	I	Write protected signal	64	Vss9		Ground

• HG62E08R71P (XM789A00) GATE ARRAY

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	XCS	O	Control clock of 20.9 kHz for ADC	21	GND		Ground
2	XCLK	O	Data transfer clock for ADC	22	NC		
3	GND		Ground	23	NC		
4	/CSAD1	I	Chip select for internal circuit 1	24	/MRD	I	GEW8 memory read
5	/CSAD2	I	Chip select for internal circuit 2	25	MWR	I	GEW8 memory write
6	DATA	I	A/D serial data	26	AB19	I	Chip select for /CE1 and /CE2
7	SCK	I	System clock, 12 MHz	27	GND		Ground
8	/RES	I	Reset	28	/IC	I	Initial clear
9	VCC		Power supply	29	CH27	I	GEW8 channel–27 timing clock
10	GND		Ground	30	VCC		Power supply
11	ADEOC	O	A/D end of converter	31	GND		Ground
12	D8	O	Data bus	32	MC	I	GEW8 sync. signal
13	D9	O		33	OEHI	I	Output enable HI for PSRAM
14	D10	O		34	GND		Ground
15	D11	O		35	/CE1	O	Chip enable for PSRAM, IC 2
16	D12	O		36	/CE2	O	Chip enable for PSRAM, IC 3
17	D13	O		37	/OE	O	Output enable
18	D14	O		38	NC		
19	D15	O		39	NC		
20	GND		Ground	40	GND		Ground

Pins 1 through 20: A/D interface circuits

Pins 21 through 40: PSRAM interface circuits

• YMW-258-F (XJ427A00) GEW8 (AWM Tone Generator)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	NC			41	Vss		Ground
2	Vss		Ground	42	NC		
3	D0	I/O	CPU data bus	43	Vss		Ground
4	D7	I/O		44	AB0	O	Voice memory address bus
5	A0	I	CPU address bus	45	DB7	I/O	Voice memory data bus
6	A1	I		46	AB1	O	
7	A2	I		47	AB2	O	
8	A3	I		48	AB10	O	
9	CS	I	Chip select	49	AB3	O	
10	RD	I	Read control	50	AB4	O	
11	WR	I	Write control	51	AB11	O	
12	XIN		Clock	52	AB5	O	
13	XOUT			53	AB9	O	Voice memory address bus
14	IC	I	Initial clear	54	AB6	O	
15	TST0		Test pin	55	AB8	O	
16	TST1			56	AB7	O	
17	Vss		Ground	57	AB13	O	
18	DITHER		Not used	58	AB12	O	
19	DACLD	O	Data output, L channel	59	AB14	O	
20	DACDCLK	O	Bit clock output to DAC	60	AB15	O	
21	DACRD	O	Data output, R channel	61	AB17	O	
22	DACLE	O	Word clock output to DAC	62	Vss		Ground
23	NC			63	Vss		
24	DACMC	O	System clock output to DAC	64	Vss		
25	CH27		Not used	65	Vss		
26	DSPSYW			66	AB15	O	Voice memory address bus
27	DSPSEND			67	AB18	O	
28	DSPRET			68	AB19	O	
29	DSPIC			69	AB20	O	
30	DSPCDS			70	AB21	O	
31	DSPCLK			71	MRD(MWR)	O	Memory read control
32	VDD		Power supply	72	VDD		Power supply
33	DB3	I/O	Voice memory data bus	73	MWR(MRD)	O	Memory write control
34	DB2	I/O		74	D3	I/O	CPU data bus
35	DB4	I/O		75	D4	I/O	
36	DB1	I/O		76	D2	I/O	
37	DB5	I/O		77	D5	I/O	
38	DB0	I/O		78	D1	I/O	
39	DB6	I/O		79	D6	I/O	
40	NC			80	Vss		Ground

• MSM82C55A-2RS (XB920A00) I/O Port

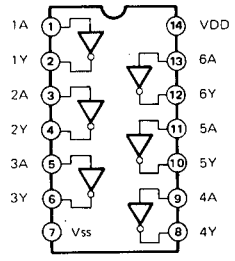
PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	PA3	I/O	Port A	21	PB3	I/O	Port B
2	PA2	I/O		22	PB4	I/O	
3	PA1	I/O		23	PB5	I/O	
4	PA0	I/O		24	PB6	I/O	
5	RD	I	Read control	25	PB7	I/O	
6	CS	I	Chip Select	26	Vcc		DC Supply
7	GND		DC Supply (0V)	27	D7	I/O	Port C
8	A1	I	Port address	28	D6	I/O	
9	A0	I		29	D5	I/O	
10	PC7	I/O	Port C	30	D4	I/O	
11	PC6	I/O		31	D3	I/O	
12	PC5	I/O		32	D2	I/O	
13	PC4	I/O		33	D1	I/O	
14	PC0	I/O		34	D0	I/O	
15	PC1	I/O		35	RES	I	Reset
16	PC2	I/O		36	WR	I	Write control
17	PC3	I/O		37	PA7	I/O	Port A
18	PB0	I/O	Port B	38	PA6	I/O	
19	PB1	I/O		39	PA5	I/O	
20	PB2	I/O		40	PA4	I/O	

- **YM3413** (XE449A00) L-Digital Signal Processor

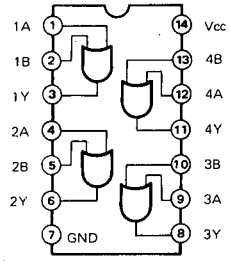
PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	VDD		DC supply (+5V)	21	A5	O	Address bus
2	D7	I/O	Data bus	22	A6	O	
3	D6	I/O		23	A7	O	
4	D5	I/O		24	A8	O	
5	D4	I/O		25	A9	O	
6	D3	I/O		26	A10	O	
7	D2	I/O		27	A11	O	
8	D1	I/O		28	A12	O	
9	D0	I/O		29	A13	O	
10	SI0	I	Serial data input	30	A14	O	
11	SI1	I		31	A15	O	
12	SYW	I	Synchro pulse	32	A16	O	
13	$\overline{WE}$	O	Write enable	33	SO0	O	Serial data output
14	$\overline{OE}$	O	Output enable	34	XCLK	I	Clock
15	A0	O	Address bus	35	$\overline{IC}$	I	Initial Clear
16	A1	O		36	$\overline{CRS}$	I	CD counter reset
17	A2	O		37	CDI	I	CD input
18	A3	O		38	CDo	O	CD output
19	A4	O		39	SO1	O	Serial data output
20	Vss		Ground	40	CLK	I	Clock

■ IC BLOCK DIAGRAM

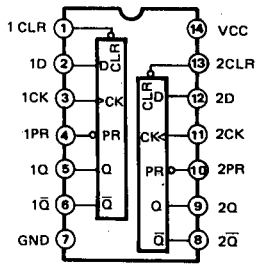
- **SN74HC04N** (IR000450)
  Hex Inverter



- **SN74HC32N** (IR003250)
  Quad 2 Input OR

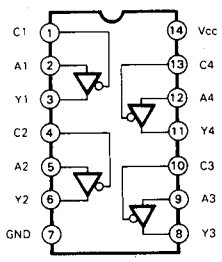


- **SN74HC74N** (IR007450)
  Dual D-Type Flip-Flop

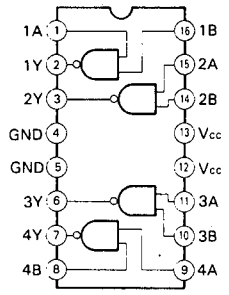


INPUTS				OUTPUTS	
PR	CLR	CLK	D	Q	Q
L	H	X	X	H	L
H	L	X	X	L	H
L	L	X	X	H	H
H	H	↑	H	H	L
H	H	↑	L	L	H
H	H	L	X	Q_o	$\bar{Q}_o$

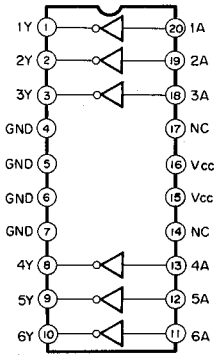
- **SN74HC125N** (IR012550)
  Quad 3-State Bus Buffer



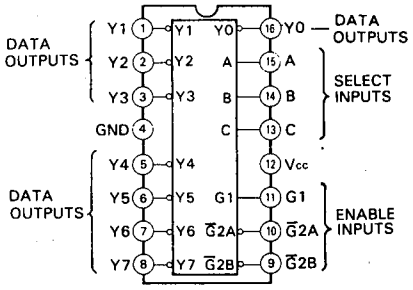
- **74AC11000** (XM723A00)
  Quad 2 Input NADA



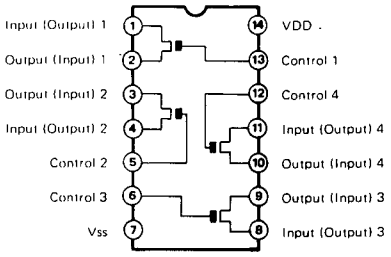
- **74AC11004** (XM722A)
  Hex Inverter



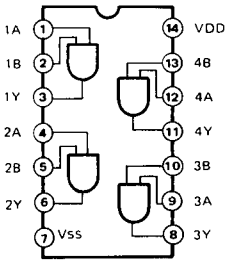
- **74AC11138** (XM724A00)
  3 to 8 Decoder/ Demultiplexer



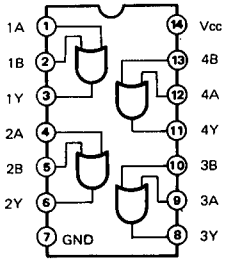
- **TC74HC4066AP** (IR406600)
- **HD74UH4066** (XM966A00)
  Quad Bilateral Switch



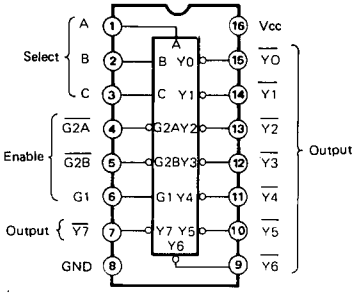
- **TC40H008P** (IG096400)
  Quad 2 Input AND



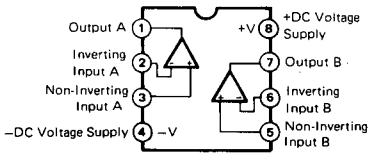
- **TC40H032P** (IG052800)
  Quad 2 Input OR



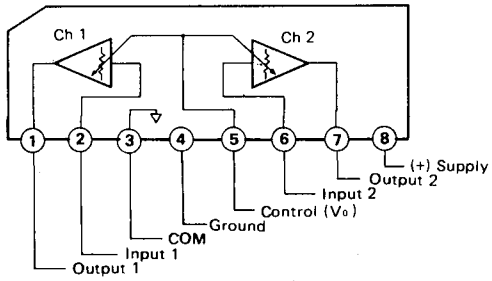
- **TC40H138P** (IG111900)
  3 to 8 Demultiplexer



- **μPC4570C** (XC520A00)
- **NJM3404AD** (XH215A00)
  Dual Operational Amplifier



- **M5222L** (IG120700)
  VCA (2 ch)



■ TEST PROGRAM

TYPE OF TEST PROGRAM MODE

There are three test modes as follows:

MODES 1 AND 2
TEST 0. CPU/NMI (INTERRUPT REQUEST) OPERATING TEST
TEST 1. KEYBOARD DETECT CPU TEST
TEST 2. CPU PERIPHERAL TEST
- 2-1 RAM TEST
- 2-2 PROGRAM ROM VERIFY
- 2-3 STYLE ROM VERIFY
- 2-4 TONE GENERATOR VOICE ROM VERIFY

TEST 3. PANEL, MIDI, AND KEYBOARD TEST
- 3-1 PANEL SWITCH AND LED TEST
- 3-2 PITCH BEND WHEEL TEST
- 3-3 FOOT PEDAL TEST
- 3-4 KEYBOARD CONTACT POINT TEST
- 3-5 DSP TEST
- 3-6 MIDI IN/OUT TEST
- 3-7 ROTARY ENCODER TEST

TEST 4. ROM VERSION INDICATION
TEST 5. FDD TEST
TEST 6. SAMPLER TEST
TEST 7. RAM BACKUP FUNCTION TEST

MODE 3
TEST 1. KEYBOARD DETECT CPU TEST
TEST 2. RAM BACKUP FUNCTION TEST

* Difference in the CPU peripheral test between mode 1 and mode 2

Mode 1 — Circuit test for each memory address line
Test time: About one second
Mode 2 — Entire memory address test
Test time: About one minute

* When Mode 2 or Mode 3 is entered, the content of the RAM in the backup area will be overwritten.
* The error and execution messages will appear in the LCD.

MODE 1

HOW TO ENTER THE TEST PROGRAM

While holding down two white keys on the right end of the keyboard (C6 and B5), turn on the power. The test proceeds automatically.

TEST 0. CPU IC1 (H8/510)/NMI (INTERRUPT REQUEST) OPERATING TEST

When the test program is started, if there is an NMI detection flag and there is irregular data, an error will be displayed.
If this happens, turn the machine's power off.
After turning the power off then on again, execute the data comparison operation test and check the NMI detection flag, by overwriting the irregular data in the NMI detection flag and restarting the test program.

ERROR:
PSR-1700 "/NMI Hard ERROR"
PSR-2700 "/NMI Hard ERROR"

* When the test program is first started, the error will be displayed. However, if when the power is turned off and on again, and the test program restarted, but the error is not displayed again, it is operating normally.

TEST 1. KEYBOARD DETECT CPU TEST

Check to see if data is sent from the CPU for touch detection.
If data is not sent, or if abnormal data is sent, an error occurs.
If keyboard contact detection is abnormal, the system does not enter test mode.
Correct operation indicates that the selected test mode has been entered.

ERROR:
PSR-1700 "Sub-Cpu ERROR"
PSR-2700 "Test Sub-Cpu ERROR"

TEST 2. CPU PERIPHERAL TEST

2-1 RAM (IC5, 6) TEST

This test checks whether or not particular data can be written in and read from each RAM address bus. (Address line connection check)

ERROR:
PSR-1700 "M=1 RAM ERROR"
PSR-2700 "Test M=1 RAM ERROR"

* Even when an error is indicated, you can proceed to the next test by pressing the RESET + key. However, RAM will not be operative and the test operation quality is not guaranteed.

A Sampler RAM (SA circuit board IC2 and IC3) test is carried out only on the PSR-2700.

ERROR:
PSR-2700 "Test M=1 SMP RAM ERROR"

2-2 PROGRAM ROM (IC3) VERIFY

Adds the address of each bus and verifies the results. (Connection check)

ERROR:
PSR-1700 "M=1 P.ROM ERROR"
PSR-2700 "Test M=1 P.ROM ERROR"

* Even when an error is indicated, you can proceed to the next test by pressing the RESET + key. However, ROM will not be operative and the test operation quality is not guaranteed.

2-3 STYLE ROM (IC4) VERIFY

Adds the address of each bus and verifies the results. (Connection check)

ERROR:
PSR-1700 "M=1 S.ROM ERROR"
PSR-2700 "Test M=1 S.ROM ERROR"

* Even when an error is indicated, you can proceed to the next test by pressing the RESET + key.

2-4 TONE GENERATOR VOICE ROM (IC31) VERIFY

Adds the address of each bus and verifies the results. (Connection check)

ERROR:
PSR-1700 "M=1 W.ROM ERROR"
PSR-2700 "Test M=1 W.ROM ERROR"

* Even when an error is indicated, you can proceed to the next test by pressing the RESET + key.

TEST 3. PANEL, MIDI, AND KEYBOARD TEST

3-1 PANEL SWITCH AND LED TEST

A sine wave is generated when you press the panel switch. At the same time, MIDI note ON/OFF messages for the note number at the same pitch as the sine wave are transmitted via Channel 1.
The sine wave is at a level 9dB lower than the maximum level.
Pressing the switches turn the corresponding LEDs ON.
When keys on the numeric keypad are pressed, numerals are displayed on all digits of the LCD. Pressing the "+" key causes the dots to flash, and pressing the "–" key causes all of the dots to go out.
If two or more switches are turned on, the LCD will show "–". At the same time, MIDI note ON/OFF messages of note number 127 will be transmitted via Channel 4.
Sound will be produced for as long as the switch is held down.
The YES switch produces sounds only from the L channel, and the NO switch produces sounds only from the R channel.

3-2 PITCH BEND WHEEL TEST

When the wheel is rotated upwards and the value for the pitch bend controller reaches 7F, a sinewave sounds at pitch C4. At the same time, MIDI note ON/OFF messages for the note number at the same pitch as the sine wave are transmitted via Channel 3.
When the wheel is rotated downwards and the value for the pitch bend controller reaches 00, a sine wave sounds at pitch C3. At the same time, MIDI note ON/OFF messages for the note number at the same pitch as the sine wave are transmitted via Channel 3.
If the panel switch is detected to be ON when the wheel is not centered, the LCD will show error.

ERROR:
PSR-1700 "P.B Center ERROR"
PSR-2700 "Pitch Bend Center ERROR"

3-3 FOOT PEDAL TEST

Connecting the foot pedal (which is usually ON, but turns OFF when pressed) to the connector generates a sine wave of D4. At the same time, MIDI note ON/OFF messages for the note number at the same pitch as the sine wave are transmitted via Channel 4.
Pressing the pedal generates a sine wave of D3. At the same time, MIDI note ON/OFF messages for the note number at the same pitch as the sine wave are transmitted via Channel 4.
Disconnecting the pedal will stop the sound.
If the reverse type of foot pedal is used (normally OFF, but turns ON when pressed), a D3 sine wave is generated when the pedal is connected to the terminal and is not pressed, and a D4 sine wave is generated when it is pressed.

3-4 KEYBOARD CONTACT POINT TEST

Play scales. Tonal color will change depending on the velocity.

Velocity	Tonal color
1-10	CLICK
11-128	Sine wave
127	CLICK

As you play the keyboard, the LCD will show the corresponding velocities (1~127).

ERROR:
PSR-1700 "Kbd Velocity XXX"
PSR-2700 "Test Kbd Velocity XXX"

If a sine wave is generated, this item passes the test. If not, this item fails the test.
At the same time, MIDI note ON/OFF messages for the note number at the same pitch as the sine wave are transmitted via Channel 2.
(The CLICK sound will appear in Channel 10.)

3-5 DSP (IC33) TEST

The sounds from the keyboard are generated through the DSP IC.
If the DSP is defective, the sound played from the keyboard may be distorted or muted.

3-6 MIDI IN/OUT TEST

Connect the MIDI IN and MIDI OUT connectors using the MIDI cable. A sine wave at a pitch of A3 and A4 should be generated alternately with a cycle of 250msec for voicing and muting.

3-7 ROTARY ENCODER TEST

If the rotary encoder is detected to turn one round, the number of turns will be shown on the LCD. Turning the encoder clockwise will in-crease the number, and turning it counter-clockwise will decrease the number.

ERROR:
PSR-1700 "Test Encorder XXXX"
PSR-2700 "Test Encorder XXXX"

TEST 4. ROM VERSION INDICATION

Pressing the following switches will show the ROM versions on the LCD.

ROM	SWITCH
Program (IC3)	TEMPO
Style (IC4)	STYLE
Tone generator (IC31)	VOICE
FDD (IC28)	FILE#

TEST 5. FDD TEST

Insert a formatted floppy disk with the write protect tab ON. The test proceeds in the following order: (1) The inserted disk is detected, (2) the INDEX signal is read, (3) the format is read, and (4) write protect is detected.

(1) The inserted disk is detected.
OK: Advances to the next test
NG: No display

(2) The INDEX signal is read.
OK: Advances to the next test
NG: "FDD ERROR INDEX"

(3) The formated disk is detected.
OK: Advances to the next test.
NG: "FDD ERROR FORMAT"

(4) Write protect is detected.
OK: Advances to the next test.

Next, insert a formatted floppy disk with the write protect tab OFF.
A Write/Read verification test is carried out.
OK: "FDD TEST PASS!"
NG: "FDD ERROR WRITE"
"FDD ERROR READ"

TEST 6. SAMPLER TEST

6-1 RECORDING/PLAYBACK LEVEL (MICROPHONE) TEST FREQ=LOW

Input a 1 kHz (–40 dBm) sinewave to the MIC-IN jack, then press the DIGITAL SAMPLING REC and SAMPLE PADS 1 keys at the same time to begin recording.
When "END" is displayed on the LCD, measure the output level at the HP jacks (both left and right) while holding down the DIGITAL SAMPLING REC and SAMPLE PADS 3 keys. (30 ohm load)

–5 dBm±2 dB

6-2 RECORDING/PLAYBACK LEVEL (LINE) TEST FREQ=HIGH

Input a 1 kHz (–14 dBm) sinewave to the LINE-IN jack, then press the DIGITAL SAMPLING REC and SAMPLE PADS 2 keys at the same time to begin recording.
When "END" is displayed on the LCD, measure the output level at the HP jacks (left only) while holding down the DIGITAL SAMPLING REC and SAMPLE PADS 4 keys. (30 ohm load)

–3 dBm±2 dB

6-3-1 FILTER TEST FREQ=LOW

Input a 1 kHz (–14 dBm) sinewave to the LINE-IN jack, then press the DIGITAL SAMPLING REC and SAMPLE PADS 1 keys at the same time to begin recording.
When "END" is displayed on the LCD, measure the output level at the HP jacks (left only) while holding down the DIGITAL SAMPLING REC and SAMPLE PADS 3 keys. (30 ohm load)

less than –35 dBm

6-3-2 FILTER TEST FREQ=HIGH

Input a 1 kHz (–14 dBm) sinewave to the LINE-IN jack, then press the DIGITAL SAMPLING REC and SAMPLE PADS 2 keys at the same time to begin recording.
When "END" is displayed on the LCD, measure the output level at the HP jacks (left only) while holding down the DIGITAL SAMPLING REC and SAMPLE PADS 4 keys. (30 ohm load)

–9 dBm±2 dB

6-4 NOISE LEVEL

Unplug the cables from the MIC-IN and LINE-IN jacks.
Press the DIGITAL SAMPLING REC and SAMPLE PADS 2 keys at the same time to begin recording.
When "END" is displayed on the LCD, measure the output level at the HP jacks (both left and right) while holding down the DIGITAL SAMPLING REC and SAMPLE PADS 4 keys. (30 ohm load)

less than –68 dBm

TEST 7. RAM (IC5, 6) BACKUP FUNCTION TEST

When the FREEZE key is pressed, the following display appears on the LCD:

"Test Backup Voltage 0×××"

If the value of 0××× is 0410 or less, the message "Battery Backup Low" will be displayed when the power supply is turned on. (0410=1.927V)

END OF TEST

The test is ended when you turn off the power.

MODE 2

HOW TO ENTER THE TEST PROGRAM

While holding down three white keys on the right end of the keyboard (C6, B5, and A5), turn on the power.The test proceeds automatically.

TEST 0. CPU IC1 (H8/510)/NMI (INTERRUPT REQUEST) OPERATING TEST

When the test program is started, if there is an NMI detection flag and there is irregular data, an error will be displayed.
If this happens, turn the machine's power off.
After turning the power off then on again, execute the data comparison operation test and check the NMI detection flag, by overwriting the irregular
data in the IRQ 0 detection flag and restarting the test program.

ERROR:
PSR-1700 "/NMI Hard ERROR"
PSR-2700 "/NMI Hard ERROR"

* When the test program is first started, the error will be displayed. However, if when the power is turned off and on again, and the test program restarted, but the error is not displayed again, it is operating normally.

TEST 1. KEYBOARD DETECT CPU TEST

Check to see if data is sent from the CPU for touch detection.
If data is not sent, or if abnormal data is sent, an error occurs.
If keyboard contact detection is abnormal, the system does not enter test mode.
Correct operation indicates that the selected test mode has been entered.

ERROR:
PSR-1700 "Sub-Cpu ERROR"
PSR-2700 "Test Sub-Cpu ERROR"

TEST 2. CPU PERIPHERAL TEST

2-1 RAM (IC5, 6) TEST

Particular data is written for all RAM addresses, and the content of the addresses is read to compare with the written data.

ERROR:
PSR-1700 "M=2 RAM ERROR"
PSR-2700 "Test M=2 RAM ERROR"

* Even when an error is indicated, you can proceed to the next test by pressing the RESET + key. However, RAM will not be operative and the test operation quality is not guaranteed.

A sampler RAM (SA circuit board IC2 and IC3) test is carried out only on the PSR-2700.

ERROR:
PSR-2700 "Test M=2 SMP RAM ERROR"

2-2 PROGRAM ROM (IC3)

Adds all addresses and verifies the results.

ERROR:
PSR-1700 "M=2 P.ROM ERROR"
PSR-2700 "Test M=2 P.ROM ERROR"

* Even when an error is indicated, you can proceed to the next test by pressing the RESET + key. However, RAM will not be operative and the test operation quality is not guaranteed.

2-3 STYLE ROM (IC4) VERIFY

Adds all addresses and verifies the results.

ERROR:
PSR-1700 "M=2 S.ROM ERROR"
PSR-2700 "Test M=2 S.ROM ERROR"

* Even when an error is indicated, you can proceed to the next test by pressing the RESET + key.

2-4 TONE GENERATOR VOICE ROM (IC31) VERIFY

Adds all addresses and verifies the results.

ERROR:
PSR-1700 "M=2 W.ROM ERROR"
PSR-2700 "Test M=2 W.ROM ERROR"

* Even when an error is indicated, you can proceed to the next test by pressing the RESET + key.

TEST 3, TEST 4, TEST 5, TEST 6 and TEST 7 are the same as MODE 1.

END OF TEST

The test is ended when you turn off the power.

MODE 3

HOW TO ENTER THE TEST PROGRAM

While holding down two white keys on the right end of the keyboard (C6 and B5) and the white key (C2), turn on the power. Error will be shown on the display. Turn off the power, then turn it on again to check the display.

TEST 1. KEYBOARD DETECT CPU TEST

Check to see if data is sent from the CPU for touch detection.
If data is not sent, or if abnormal data is sent, an error occurs.
If keyboard contact detection is abnormal, the system does not enter test mode.
Correct operation indicates that the selected test mode has been entered.

ERROR:
PSR-1700 "Sub-Cpu ERROR"
PSR-2700 "Test Sub-Cpu ERROR"

TEST 2. RAM (IC5,6) BACKUP FUNCTION TEST

<PSR-1700>
Write particular data in the area where the backup data is stored. Turn off the power, then turn it on again, and check if the backup data remains.
At the point where Mode 3 is entered, the LCD will be as follows:
"M=3 RAM TEST"
↓
"M=3 RAM ERROR"

Next, turn off the power supply and then turn it back on while holding down the same key on the keyboard.

In correct operation:
"M=3 RAM PASS"
"Backup Vol 0XXX"

ERROR:
"M=3 RAM ERROR"

If the value of 0XXX is 0410 or less, the message "Battery Backup Low" will be displayed when the power supply is turned on. (0410=1.927V)

* If the unit passes test Mode 3, the test program will end.

<PSR-2700>
Write particular data in the area where the backup data is stored. Turn off the power, then turn it on again, and check if the backup data remains.
At the point where Mode 3 is entered, the LCD will be as follows:
"Test M=3 SMP RAM TEST"
↓
"Test M=3 SMP RAM ERROR"

Next, press the "+" key. The LCD will be as follows:

"Test M=3 RAM TEST"
↓
"Test M=3 RAM ERROR"

Turn off the power supply and then turn it back on while holding down the same key on the keyboard.

In correct operation:
"Test M=3 RAM PASS"
"Test Backup Voltage 0XXX"

ERROR:
"Test M=3 RAM ERROR"

If the value of 0XXX is 0410 or less, the message "Battery Backup Low" will be displayed when the power supply is turned on. (0410=1.927V)

* If the unit passes test Mode 3, the test program will end.

END OF TEST
The test is ended when you turn off the power.

OUTPUT LEVEL CHECK
Check the output level. Set the [MASTER VOLUME] at the maximum level, then press the QUANTIZE key.
Use the level gauge (JIS C curve filter) for the test.

CHECK ITEMS

HEADPHONES:	Sine wave, –6 dBm±2 dBm (30 ohm load)
AUX OUT:	Sine wave, +1 dBm±2 dBm (load open)

NOISE LEVEL CHECK
Measure the noise level when no sound is produced.

CHECK ITEMS

<PSR-1700>

HEADPHONES:	less than –73 dBm (30 ohm load)
AUX OUT:	less than –66 dBm (load open)

<PSR-2700>

HEADPHONES:	less than –71 dBm (30 ohm load)
AUX OUT:	less than –70 dBm (load open)

■ERROR MESSAGES

If an error occurs during operation of the PSR-1700/2700, one of the following error messages will appear so you'll know what went wrong and how to remedy the situation.

Disk-related Error Messages

Can't Load	You have attempted to load a file that cannot be loaded. Check the file number, select an appropriate file and try again.
Can't Play	You have attempted to start the QUICK PLAY function with a disk that contains no files suitable for quick playback. Only Yamaha DOC files, SMF format-0 files, ESEQ files, or PianoSoft files can be used with the Quick Play function.
Disk Full	The disk does not have sufficient capacity remaining for the file you have attempted to save. Either delete unwanted data from the disk to make more room, or use a different disk.
Disk Not Ready!	You have attempted to execute a disk operation while no disk is loaded. Insert an appropriate disk and try again.
Disk Protected	You have attempted to save to, delete, or format a write-protected disk. Slide the floppy disk write-protect tab to the write-enable position and try again.
File Not Found!	The file you have attempted to delete or load cannot be found. This error message will also appear if you specify a file number that has no data for deleting or loading.
File Protected	You have attempted to save to or delete a write-protected file. Such files can not be overwritten or deleted by the PSR-1700/2700.
Read Error	An error occurred while reading data from the disk. If the error persists there could be something wrong with the floppy disk or the data on the disk might be corrupted. If possible try a different disk.
Same Name	You have specified a file name that already exists on the current disk. Try again and change the name.
Unformatted Disk!	The loaded disk is not formatted for use with the PSR-1700/2700. Either format the disk or replace it with an already-formatted disk.
Write Error	An error occurred while writing data to the disk. Try the operation again. If the error persists there could be something wrong with the floppy disk. Try re-formatting the disk. If this doesn't help, try a different disk.
Wrong File Name	You have attempted to save a file with a file name consisting of all spaces. Try again with a different file name.

Digital Sampling-related Error Messages (PSR-2700)

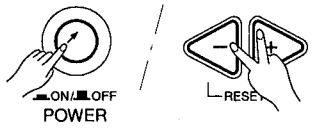
No Bank	The maximum of 255 "banks" of data has been exceeded (one pad contains one "bank"). Clear all unnecessary pads and voice data before attempting to sample more data.
No Wave Data	You have attempted to map or tune a pad or entering an original voice name that contains no sampled voice data.
Protected Voice	You have attempted to clear, record, or edit a pre-programmed disk voice file. In some cases pre-programmed sampled voices ("Protected Voices") can only be loaded.
Same Note	You have attempted to map a pad to key to which another pad is already mapped. Map either pad to a different key.
Wave Ram Full	The wave RAM memory is full and can accept no more sampled voice data (the wave RAM is 1,020 kilobytes). Clear all unnecessary pads and voice data before attempting to sample more data.
Wrong Disk	You have inserted the wrong disk or a disk that does not contain the required data. Large sampled voice data files may span more than one disk, and these must be inserted in the correct order when loading the file. Check the disk number and try again.

Other Error Messages

IllegalOperation	You have pressed a button that can not be used in the current mode. Read the instructions for the function you are using carefully, and use appropriate function button.
Memory Full	The PSR-1700/2700 recording memory has become full while recording Song Memory, Custom Accompaniment, or Multi Pad data. Save data you want to keep to disk and clear all unnecessary data from memory to make more room.

■ SYSTEM RESET PROCEDURE

All internal memory settings are retained in memory even when the power switch is turned OFF as long as a good set of backup batteries is present or the AC plug is connected. You can, however, restore the factory default settings by following the procedures outlined below.



1. Press the **[POWER]** switch to turn the PSR-1700/PSR-2700 power OFF.
2. Turn the power back ON while holding both the **[+]** and **[–]** buttons. "Backup RAM Clear" will appear on the LCD display panel while the data is being reset.

IMPORTANT • ***Executing the System Reset function will erase all internal memory settings***

MIDI DATA FORMAT

*1. The following modes can be set individually for each channel via the panel control:
Mode 00: Reception OFF.
Mode 01: Direct tone generator control.
Mode 02: Same as keyboard note on/off operation.
Mode 03: Same as auto-accompaniment chord fingering.
Mode 04: Same as the lowest-note (bass note) played in the auto-accompaniment chord fingerings.

*2. Channel pressure handled as vibrato.

*3. For bank selection transmission only the MSB changes.
The LSB is fixed at 00H.

*4. Bank select reception.
The bank select MSB is used for melody voice and rhythm voice switching.
The bank select LSB is ignored.
MSB 00H: GM melody voice.
MSB 01H: Sample voice (PSR-2700).
MSB 7FH: GM rhythm voice.
The default for all the channels excepting channel 10 is 00H. Bank select reception with channel 10 is not possible since channel 10 is assigned to the rhythm accompaniment. However, bank select reception with channel 10 will be possible when you do the following operation: turning the POWER back on while holding the C1 key down.
When the bank select MSB is 01H ... 7EH, all subsequent key-ons received will be ignored.
No voice change will occur when only a bank select is received.
When a program change is received the latest bank select value is used.

*5. Portamento control is effective only when Reception is set in the Multi mode.

*6. A pitch bend sensitivity message is transmitted when a panel pitch bend range setting is made.
Pitch bend sensitivity: BnH, 64H, 00H, 65H, 00H

*7. RPN receives the following data:

Pitch bend sensitivity:	BnH, 64H, 00H, 65H, 00H Default: 02H, 00H
Fine tuning:	BnH, 64H, 01H, 65H, 00H Default: 40H, 00H
Coarse tuning:	BnH, 64H, 02H, 65H, 00H Default: 40H, 00H
Null:	BnH, 64H, 7FH, 65H, 7FH

*8. Reset all controllers.
Pitch bend, channel pressure, modulation, expression, sustain, and sostenuto are returned to their default values.
All RPN data is set to NULL.
Portamento is reset.

*9. GM melody voices 0 through 127 become panel voices 1 through 128.
Sample voices 0 through 127 become panel sample voices 1 through 128. (PSR-2700)
Rhythm voices 0, 8, 16, 24, 25, 32, 40, and 48 become panel voices 1 through 8.

*10. Exclusive.
<GM1 System ON> F0H, 7EH, 7FH, 09H, 01H, F7H
All parameters except MIDI Master Tuning are reset to their default values.

<MIDI Master Volume> F0H, 7FH, 7FH, 04H, 01H, ll, mm, F7H
Allows the volume of all channels to be changed simultaneously (universal system exclusive).
mm is used as the MIDI Master Volume value (ll is ignored).
The default value for mm is 7FH.
This message is receive-only.

<MIDI Master Tuning>
F0H, 43H, 1nH, 27H, 30H, 00H, 00H, mm, ll, cc, F7H
Allows the pitch of all channels to be changed simultaneously (panel tuning).
mmll is used as the MIDI Master Tuning value, an the actual tuning is shown by the expression:
T=Mx200/256-100
Where T is the actual tuning value in cents. M is decimal value represented by 1-byte using bits 0...3 of mm as the MSB and bits 0...3 of ll as the LSB.
The default values of mm and ll are 07H and 0FH, respectively.
n and cc are also recognized.
This value is not reset by a GM System ON or Reset All Controllers message.
This message is transmitted and received.

<DOC On> F0H, 43H, 73H, 01H, 14H, F7H
Reception only.
MIDI IN channels 1 through 16 apply to the DOC data. The panel voice assignments are not affected.

<Panel Control>

Dual data change:	F0H, 43H, 76H, 17H, 04H, <Data>, F7H
Dual ON/OFF:	F0H, 43H, 76H, 17H, 05H, <Data>, F7H
Harmony/Effect:	F0H, 43H, 76H, 17H, 0EH, <Data>, F7H
DSP type:	F0H, 43H, 76H, 17H, 0EH, 00H, 01H, <Data>, F7H
Chord/Bass:	F0H, 43H, 76H, 17H, 0BH, <Data>, F7H

*11. Internal/external clock selectable.

*12. Operation when a start/stop command is received is determined by the RECEIVE CHANNEL, CLOCK, AND COMMAND panel settings.
0. Start/stop command ignored.
1. Auto-accompaniment start/stop.
2. Song memory start/stop.
Continue neither transmitted nor received.

[Portable Keyboard]
Model: PSR-1700/PSR-2700

MIDI Implementation Chart

Date: 1993. 11. 1
Version: 1.00

Function	Transmitted	Recognized	Remarks
Basic Default	1~16 CH	1~16 CH (*1)	
Channel Changed	1~16 CH	1~16 CH (*1)	
Default	Mode 3	(*1)	
Mode Messages	×	×	
Altered	**********	×	
Note Number : True voice	0~127 **********	0~127 0~127	
Velocity Note on	O 9nH, v=1~127	O 9nH, v=1~127	
Note off	× 9nH, v=0	× 9nH, v=0 or 8nH	
After key's	×	×	
Touch Ch's	×	O (*2)	
Pitch Bender	O	O	
Control Change 0, 32	O (*3)	O (*4)	Bank select MSB, LSB
1	O	O	Modulation depth
6, 38	O	O	Data entry MSB, LSB
7	O	O	Volume
10	O	O	Pan
11	O	O	Expression
64	O	O	Sustain
66	×	O	Sostenuto
84	O	O (*5)	Portamento control
90	×	O	
91	O	O	Reverb send level
96	×	O	RPN data increment
97	×	O	RPN data decrement
100, 101	O (*6)	O (*7)	RPN MSB, LSB
120	O	O	All sound off
121	×	O (*8)	Reset all controllers
Program Change : True #	O 0~127 **********	O 0~127 0~127 (*9)	
System Exclusive	O (*10)	O (*10)	
System : Song Position	×	×	
: Song Select	×	×	
Common : Tune	×	×	
System : Clock	O	O (*11)	
Real Time : Commands	O (*12)	O (*12)	
Aux : Local ON/OFF	×	×	
: All Notes Off	O	O	
Messages : Active Sense	O	O	
: Reset	×	×	

Mode 1: OMNI ON, POLY
Mode 2: OMNI ON, MONO
Mode 3: OMNI OFF, POLY
Mode 4: OMNI OFF, MONO

O: Yes
×: No

■ CIRCUIT BOARDS

• DM Circuit Board

Notes)

Circuit Board : DM (VQ470800)XN323C0 (J, B, A) PSR-1700
Circuit Board : DM (VQ470700)XM721C0 (U, E, C) PSR-1700

1. FERRITE BEAD
   L 1~4: BL02RN1-R62T4 (GE300610)
   LF 2, 3, 74~77, 102~105, 125, 138, 149: EXC-ELDR35V (VM898600) U, E, C only

2. RESISTOR ARRAY
   RA 1~3: RGLE8X473J (VF238600)
   RA 4: RGLE4X103J (VF773500)
   RA 5: RGLE6X102J (VN927500)
   RA 6: RGLE11X473J (VQ665000)

3. IC
   IC 1: HD6415108F10 (XJ797A00) CPU
   IC 2: YMW258-F (XJ427A00) GEW8
   IC 3: (XN281C00) 4M ROM(PROGRAM)
   IC 4: (XN303A00) 16M ROM(STYLE)
   IC 5, 6: TC518128APL80LV (XM972A00) PS RAM 1M
   IC 7: SN74HC74N (IR007450) DFF
   IC10, 13: RE5VA45CA-TZ (XM717A00) RESET IC
   IC14: HD64180ZRP10 (XM744A00) CPU(Z80)
   IC15: HD74UH4066 (XM966A00) ANALOG SW
   IC17: SN74HC32N (IR003250) OR
   IC18: SN74HC125N (IR012550) 3S-BUFF
   IC19: TC40H138P (IG111900) DEC DEMP
   IC20: 74AC11138 (XM724A00) DEC DEMP
   IC22, 23: MSM82C55A-2RS (XB920A00) I/O
   IC25: TC40H008P (IG096400) AND
   IC26: TC40H032P (IG052800) OR
   IC27: SN74HC14N (IR001410) INV
   IC28: (XM986C00) 1M ROM
   IC29: TC51832APL-10 (XL978A00) PS RAM 256K
   IC30: HD63266F (XI939A00) FDC
   IC31: HN624017PZ11 (XM984B00) 16M ROM(WAVE)
   IC32: CAT548128L-10RS (XM605A00) PS RAM 1M
   IC33: YM3413 (XE449A00) LDSP
   IC34: µPD63200GS (XM145A00) DAC
   IC35: µPC4570C (XC520A00) OP AMP
   IC36: AN8005-(TA) (XL559A00) REGULATOR +5V
   IC37, 41: 74AC11000 (XM723A00) NAND
   IC38: 74AC11004 (XM722A00) INV

4. IC SOCKET
   IC3, 4, 31: DICF-42CS-E (VK863100) 3pcs
   IC28: DICF-32CS-E (VJ532800) 1pc.

5. CONNECTOR
   CN 4: 52147-15P TE (VF66760) to AM-CN 2
   CN 7: 52147-6P TE (VF728300) to MKS-CN 1

6. WIRE TRAP
   CN 5: 52147-8P TE (VK02520) to PNR-C 1
   CN 6: 52147-9P TE (VK02530) to AM-CN 3
   CN10: 52147-3P TE (VK02470) to PITCH BEND

7. CONNECTOR
   CN 1: 52045-36P TE (VQ04850) to PNL-C 3
   CN 8: 52045-24P TE (VP12770) to FDD
   CN 9: 52233-16P TE (VQ67070) to LCD

8. EMI FILTER
   LF 5~38, 79~101, 106, 109, 111~114, 116, 118~123, 126~137, 141~143, 145, 146, 151: EXC-ECT221 (VQ395400) U, E, C only

9. QUARTZ CRYSTAL UNIT
   CX 1: 18.8M AT-49 (VQ666000)

10. CERAMIC RESONATOR
    CL 1: 500K CSU500P (VJ338400)
    CL 2: CST10.0MTW (VJ337900) 10.0MHz
    CL 3: CST16.00MXW0 (VK966200) 16.0MHz

11. TRANSISTOR ARRAY
    IC 8, 9, 21: AN90B22 (VH480900)

12. DIGITAL TRANSISTOR
    TR 1~6: DTB123ES TP (VJ337600)

13. JUMPER WIRE
    –J–: 0.55 (VA078900)
    LF 1, 4, 78, 107, 108, 110, 115, 117, 124, 139, 144, 147, 148: 0.6 (VL448600) U, E, C only

PSR-1700/PSR-2700

Notes)

Circuit Board : DM (VQ470600)XN323C0 (J, B, A) PSR-2700
Circuit Board : DM (VQ470500)XM721C0 (U, E, C) PSR-2700

1. FERRITE BEAD
   L 1~4: BL02RN1-R62T4 (GE300610)
   LF 2, 3, 74~77, 102~105, 125, 138, 149: EXC-ELDR35V (VM898600) U, E, C only

2. RESISTOR ARRAY
   RA 1~3: RGLE8X473J (VF238600)
   RA 4: RGLE4X103J (VF773500)
   RA 5: RGLE6X103J (VN927500)
   RA 6: RGLE11X473J (VQ665000)
   RA 7: RGLE7X473J (VL207800)

3. IC
   IC 1: HD6415108F10 (XJ797A00) CPU
   IC 2: YMW258-F (XJ427A00) GEW8
   IC 3: (XM985C00) 4M ROM(PROGRAM)
   IC 4: (XN303A00) 16M ROM(STYLE)
   IC 5, 6: TC518128APL80LV (XM972A00) PS RAM 1M
   IC 7: SN74HC74N (IR007450) DFF
   IC10, 13: RE5VA45CA-TZ (XM717A00) RESET IC
   IC14: HD64180ZRP10 (XM744A00) CPU(Z80)
   IC15: HD74UH4066 (XM966A00) ANALOG SW
   IC17: SN74HC32N (IR003250) OR
   IC18: SN74HC125N (IR012550) 3S-BUFF
   IC19: TC40H138P (IG111900) DEC DEMP
   IC20: 74AC11138 (XM724A00) DEC DEMP
   IC22, 23: MSM82C55A-2RS (XB920A00) I/O
   IC25: TC40H008P (IG096400) AND
   IC26: TC40H032P (IG052800) OR
   IC27: SN74HC14N (IR001410) INV
   IC28: (XM986C00) 1M ROM
   IC29: TC51832APL-10 (XL978A00) PS RAM 256K
   IC30: HD63266F (XI939A00) FDC
   IC31: HN624017PZ11 (XM984B00) 16M ROM(WAVE)
   IC32: CAT548128L-10RS (XM605A00) PS RAM 1M
   IC33: YM3413 (XE449A00) LDSP
   IC34: µPD63200GS (XM145A00) DAC
   IC35: µPC4570C (XC520A00) OP AMP
   IC36: AN8005-(TA) (XL559A00) REGULATOR +5V
   IC37, 41: 74AC11000 (XM723A00) NAND
   IC38: 74AC11004 (XM722A00) INV

4. IC SOCKET
   IC 3, 4, 31: DICF-42CS-E (VK863100) 3pcs
   IC28: DICF-32CS-E (VJ532800) 1pc.

5. CONNECTOR
   CN 4: 52147-15P TE (VF66760) to AM-CN 2
   CN 7: 52147-6P TE (VF728300) to MKS-CN 1

6. WIRE TRAP
   CN 5: 52147-8P TE (VK02520) to PNR-C 1
   CN 6: 52147-9P TE (VK02530) to AM-CN 3
   CN10: 52147-3P TE (VK02470) to PITCH BEND

7. CONNECTOR
   CN 1: 52045-36P TE (VQ04850) to PNL-C 3
   CN 2: 52045-30P TE (VP32720) to SA-CN 1
   CN 3: 52045-8P TE (VP882200) to SA-CN 2
   CN 8: 52045-24P TE (VP12770) to FDD
   CN 9: 52233-16P TE (VQ67070) to LCD

8. EMI FILTER
   LF 5~38, 79~101, 106, 109, 111~114, 116, 118~123, 126~137, 141~143, 145, 146, 151: EXC-ECT221 VQ395400) U, E, C only

9. QUARTZ CRYSTAL UNIT
   CX 1: 18.8M AT-49 (VQ666000)

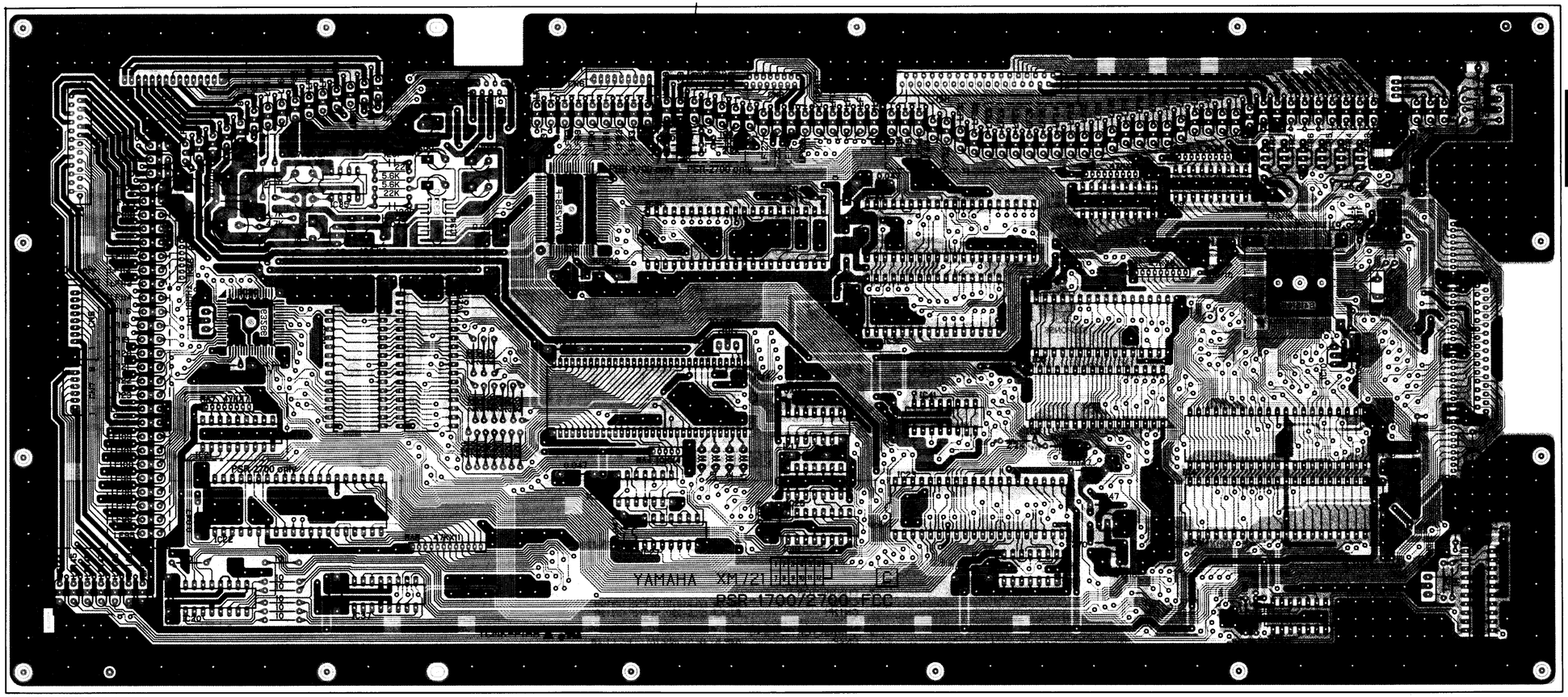
10. CERAMIC RESONATOR
    CL 1: 500K CSU500P (VJ338400)
    CL 2: CST10.0MTW (VJ337900) 10.0MHz
    CL 3: CST16.00MXW0 (VK966200) 16.0MHz

11. TRANSISTOR ARRAY
    IC 8, 9, 21: AN90B22 (VH480900)

12. DIGITAL TRANSISTOR
    TR 1~6: DTB123ES TP (VJ337600)

13. JUMPER WIRE
    LF 1, 4, 78, 107, 108, 110, 115, 117, 124, 139, 144, 147, 148: 0.6 (VL448600) U, E, C only

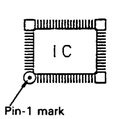
• DM Circuit Board



: U.S., Canadian and European models only

2NA-VQ47050 ⚠

• IC1, IC2, IC30 installation

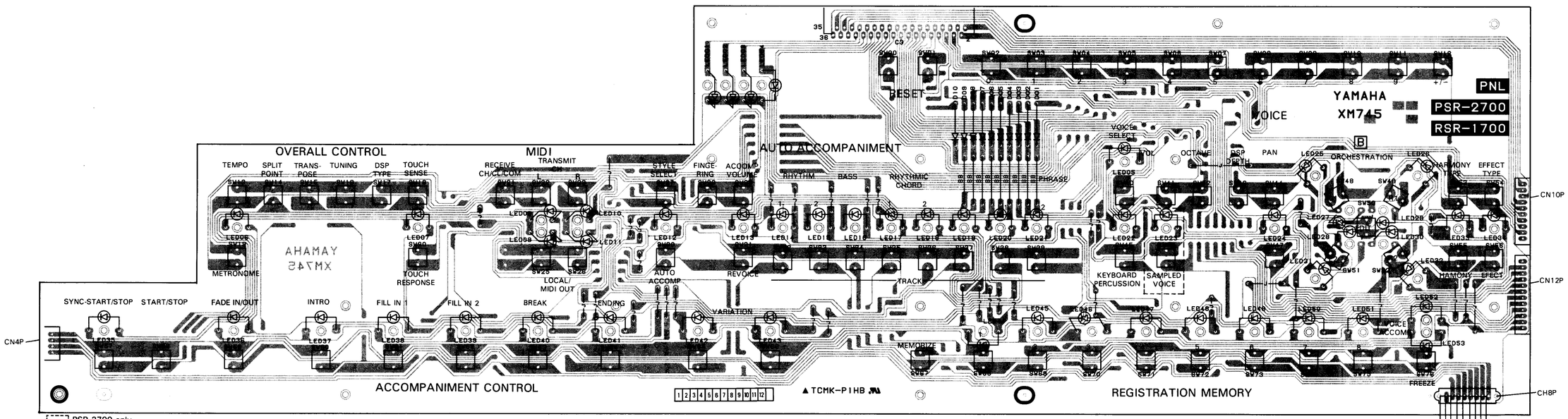


Components side

XXX	XXX = Ω	Carbon resistor
XXX (?)	XXXµF XXXP = pF	Mylar cap.
XXX	XXXµF XXXP = pF	Ceramic cap.
XXX	XXXµF	Electrolytic cap.

PSR-1700/PSR-2700
PSR-1700/PSR-2700

• PNL Circuit Board



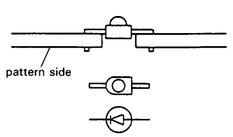
Notes)

	Circuit Board :	PNL (NX006600)XM745B0 PSR-1700
1.	TACT SWITCH SW:	SKHVBL042A H=7 (VQ371700)
2.	CONNECTOR CN10P: CN12P:	FJ-10P (VL54870) to PNR-CN10R FJ-12P (VL54890) to PNR-CN12R
3.	CONNECTOR HOUSING CN4P:	04P-FJ 4P (VQ65670) to PA-CN4R
4.	CABLE HOLDER CH8P:	51048-8P TE (VI87860) to PNR
5.	CONNECTOR C 3:	52044-36P SE (VQ04650) to DM-CN 1
6.	DIODE D 1~10:	1SS133, 1SS176 (VB941200)
7.	LED LED: LED27~30:	SLN-210VCT12 RE (VJ348700) SLN-210MTT12 GR (VP218300) ORCHESTRATION-EDIT
8.	JUMPER WIRE -J-:	0.55 (VA078900)

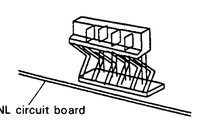
Note)

	Circuit Board :	PNL (NX006500)XM745B0 PSR-2700
1.	TACT SWITCH SW:	SKHVBL042A H=7 (VQ371700)
2.	CONNECTOR CN10P: CN12P:	FJ-10P (VL54870) to PNR-CN10R FJ-12P (VL54890) to PNR-CN12R
3.	CONNECTOR HOUSING CN4P:	04P-FJ 4P (VQ65670) to PA-CN4R
4.	CABLE HOLDER CH8P:	51048-8P TE (VI87860) to PNR
5.	CONNECTOR C 3:	52044-36P SE (VQ04650) to DM-CN 1
6.	DIODE D 1~10:	1SS133, 1SS176 (VB941200)
7.	LED LED: LED27~30:	SLN-210VCT12 RE (VJ348700) SLN-210MTT12 GR (VP218300) ORCHESTRATION-EDIT
8.	JUMPER WIRE -J-:	0.55 (VA078900)

• LED installation

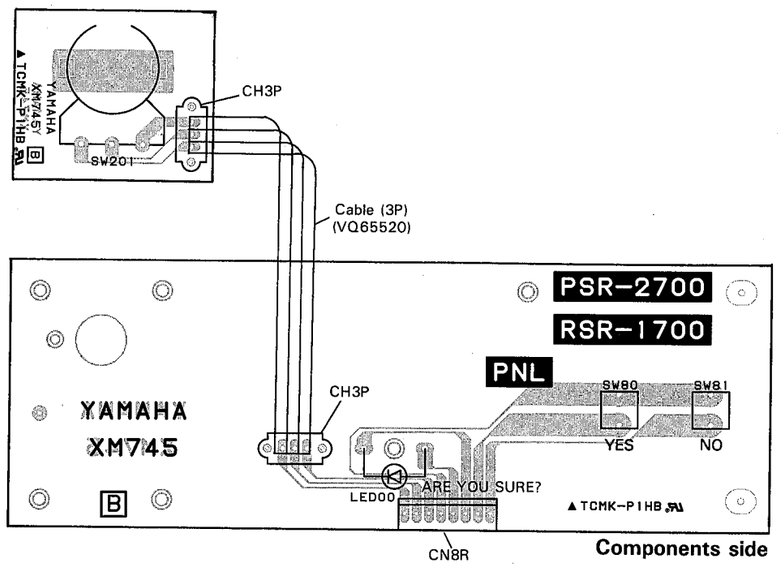


• CN4P, 10P, 12P installation



2NA-VQ47520

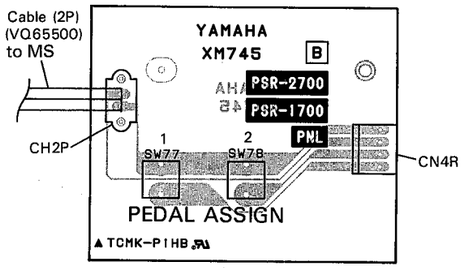
• RV Circuit Board



Note)

Circuit Board :	RV +CABLE(3P) (NX006610)XM745B0 PSR-1700
Circuit Board :	RV +CABLE(3P) (NX006510)XM745B0 PSR-2700
1. TACT SWITCH SW:	SKHVBL042A H=7 (VQ371700)
2. ROTARY ENCODER SW201:	EVQ WP5 F15 24B (VQ371800)
3. CABLE HOLDER CH3P:	51048-3P TE (VI87810) 2pcs
4. CONNECTOR CN8R	FJ- 8P (VK217100) to PNR-CN8P
5. LED LED:	SLN-210VCT12 RE (VJ348700)

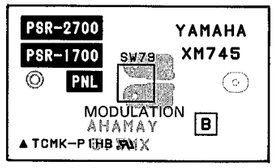
• PA Circuit Board



Notes)

Circuit Board :	PA +CABLE(2P) (NX006620)XM745B0 PSR-1700
Circuit Board :	PA +CABLE(2P) (NX006520)XM745B0 PSR-2700
1. CABLE HOLDER CH2P:	51048-2P TE (VI87800) to MS
2. TACT SWITCH SW:	SKHVBL042A H=7 (VQ371700)
3. CONNECTOR CN4R	04R-FJ 4P TE (VQ65600) to PNL-CN4P

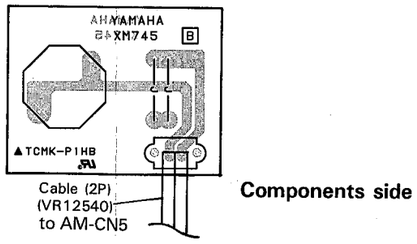
• MS Circuit Board



Notes)

Circuit Board :	MS (NX006630)XM745B0 PSR-1700
Circuit Board :	MS (NX006530)XM745B0 PSR-2700
1. TACT SWITCH SW79:	SKHBE091A (VQ320400)

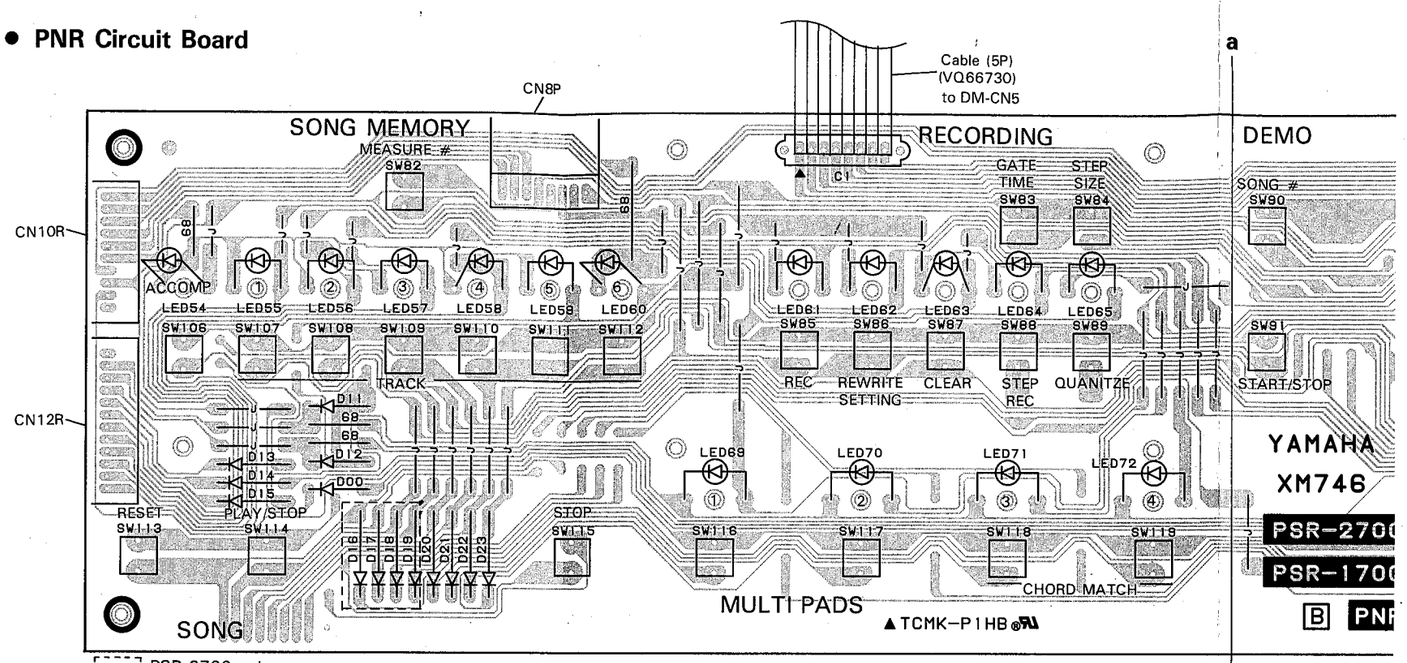
• BT Circuit Board



Notes)

Circuit Board :	BT +CABLE(2P) (NX006640)XM745B0 PSR-1700
Circuit Board :	BT +CABLE(2P) (NX006540)XM745B0 PSR-2700
1. SPRING TERMINAL	A (VQ598800)
2. JUMPER WIRE -J-:	0.55 (VA078900)

• PNR Circuit Board



PSR-2700 only

Notes)

Circuit Board : PNR (VQ654400)XM746B0 PSR-1700

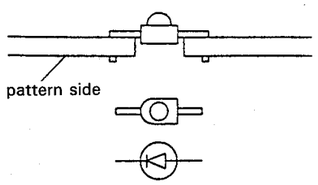
1. TACT SWITCH
   SW: SKHVBL042A H=7 (VQ371700)
2. CONNECTOR
   CN8P: FJ- 8P (VK21630) to RV-CN8R
   CN10R: FJ-10P (VK217300) to PNL-CN10P
   CN12R: FJ-12P (VK217500) to PNL-CN12P
3. DIODE
   D: 1SS133, 176, (VD631600) HSS104
4. LED
   LED: SLN-210VCT12 RE (VJ348700)
5. JUMPER WIRE
   -J-: 0.55 (VA078900)

Notes)

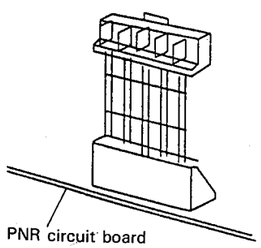
Circuit Board : PNR (NX006550)XM746B0 PSR-2700

1. TACT SWITCH
   SW: SKHVBL042A H=7 (VQ371700)
2. CONNECTOR
   CN8P: FJ- 8P (VK21630) to RV-CN8R
   CN10R: FJ-10P (VK217300) to PNL-CN10P
   CN12R: FJ-12P (VK217500) to PNL-CN12P
3. CABLE HOLDER
   CH3P:
   C 1: 51048-3P TE (VI87810) to SV-CH3P
   51048-8P TE (VI87860) to DM-CN 5
4. DIODE
   D: 1SS133, 176, HSS104 (VD631600)
5. LED
   LED: SLN-210VCT12 RE (VJ348700)
   LED100~105: SLN-210MTT12 GR (VP218300)
   –6, –12, –18, –24, –30, –36
6. JUMPER WIRE
   -J-: 0.55 (VA078900)

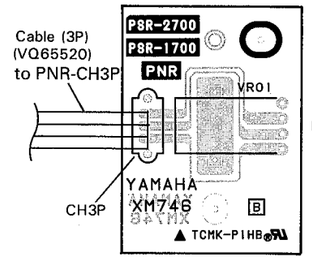
• LED installation



• CN8P installation



• SV Circuit Board (PSR-2700 only)

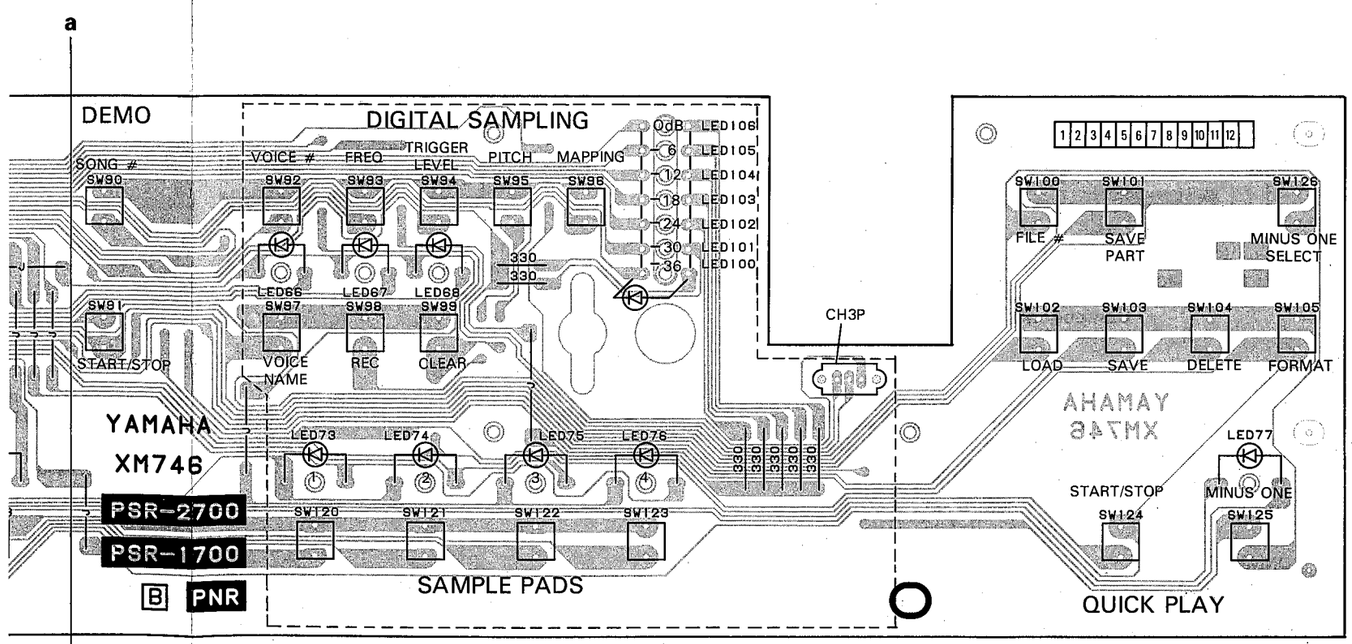


Components side

Notes)

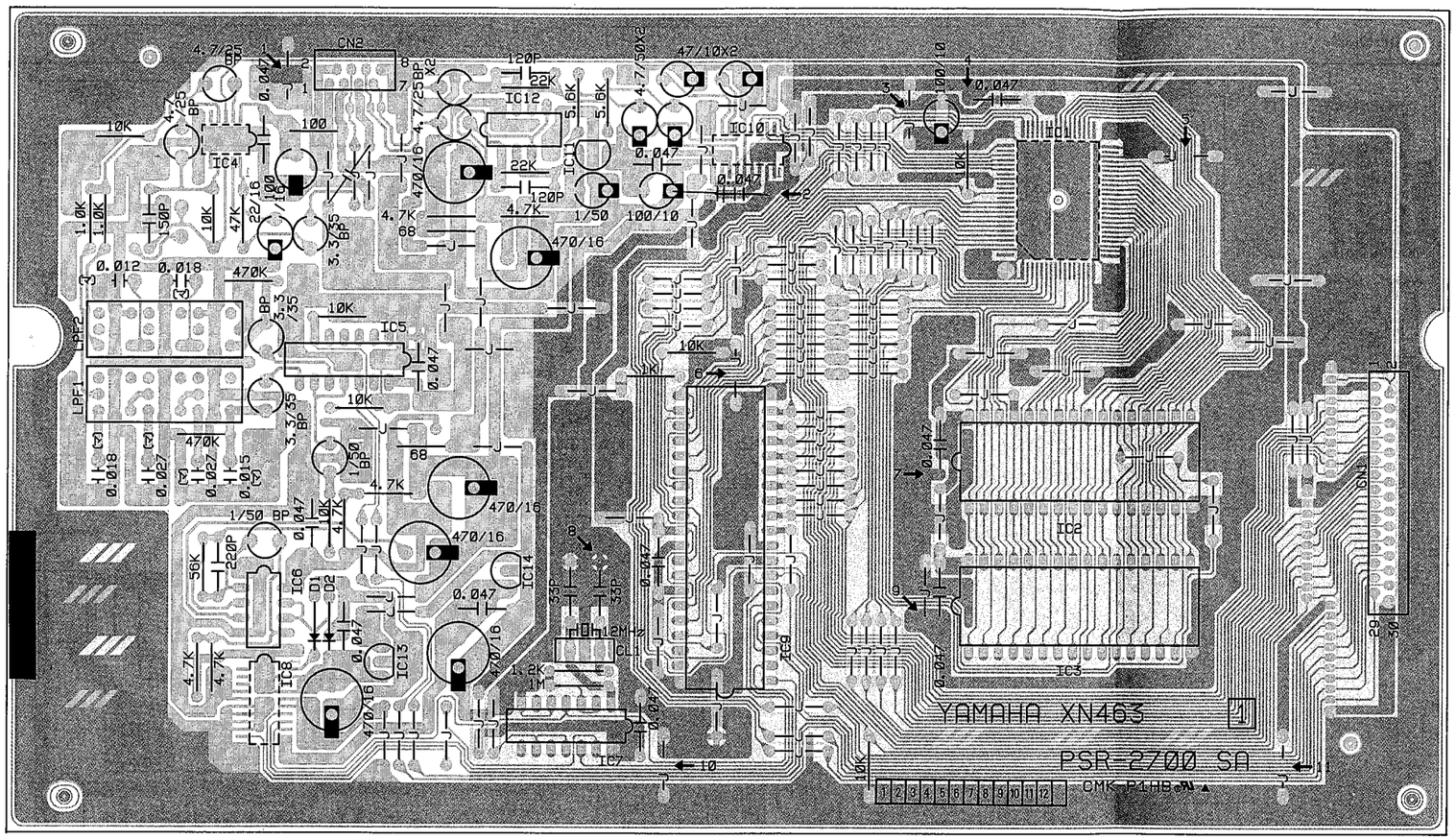
Circuit Board : SV +CABLE(3P) (NX006560)XM746B0 PSR-2700

1. VARIABLE RESISTOR
   VR01: B10K RK11K1130 (VQ655700)
2. CABLE HOLDER
   CH3P: 51048-3P TE (VI87810) to PNR-CH3P



Components side

• SA Circuit Board (PSR-2700 only)



Components side

Notes)

Circuit Board : SA (VQ590700)XM977B0 (J, B, A) PSR-2700
SA (VR244300)XN46310 (U, E, C) PSR-2700

1. IC
   - IC 1: YMW258-F (XJ427A00) GEW8
   - IC 2, 3: HM658512LP-8V (XM990A00) 4M PSRAM
   - IC 4: M5282FP (XM987A00) VCA
   - IC 5: TC74HC4066AP (IR406600) ANALOG SW
   - IC 6: NJM3404AD (XH215A00) OP AMP
   - IC 7: SN74HC04N (IR000450) INV
   - IC 8: LC78865M (XM988A00) ADC
   - IC 9: HG62E08R71P (XM789A00) GATE ARRAY
   - IC10: µPD63200GS (XM145A00) DAC
   - IC11, 13, 14: AN8005 (XL559A00) REGULATOR +5V
   - IC12: µPC4570C (XC520A00) OP AMP

7. CONNECTOR
   - CN 1: 52044-30P SE (VQ04590) to DM-CN 2
   - CN 2: 52045-8P SE (VP682300) to DM-CN 3

8. LC FILTER
   - LPF 1: TFB-3LDG 5KHZ (VQ673900)
   - LPF 2: TFB-3LDG 10KHZ (VQ674000)

9. QUARTZ CRYSTAL UNIT
   - CL 1: AT49/12.0858MHZ (VR023300)

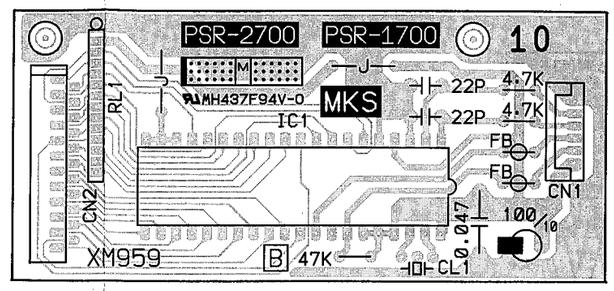
10. DIODE
    - D 1, 2: 1SS133, 1SS176 (VB941200)

11. JUMPER WIRE
    - J: 0.55 (VA078900)

XXX	XXX = Ω	Carbon resistor
XXX (7)	XXXµF XXXP = pF	Mylar cap.
XXX	XXXµF XXXP = pF	Ceramic cap.
XXX	XXXµF	Electrolytic cap.

SA: 2NA-VQ59070 ⚠5
MKS: 2NA-VQ65470 ⚠3

• MKS Circuit Board



Components side

Notes)

Circuit Board : MKS (VQ654500)XM959B0 PSR-1700,PSR-2700

1. COIL
   - FB: BL03RN2-R62T4 (VL409500) 0.45µH

2. RESISTOR ARRAY
   - RL 1: RGLE12X223J (VL674500)

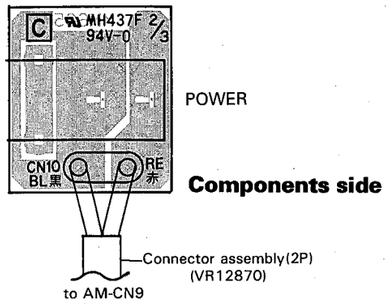
3. IC
   - IC 1: HD63B05V (XN040B00) KEY SCANNER CPU

4. CONNECTOR
   - CN 1: 52147-6P TE (VF728300) to DM-CN 7
   - CN 2: 52044-23P SE (VQ04530) to MK

5. CERAMIC RESONATOR
   - CL 1: CST8.00MTW140 (VN002100) or EFOEC8004T3 (VQ305550) 8.00MHz

6. JUMPER WIRE
   - -J-: 0.55 (VA078900)

• PSW Circuit Board

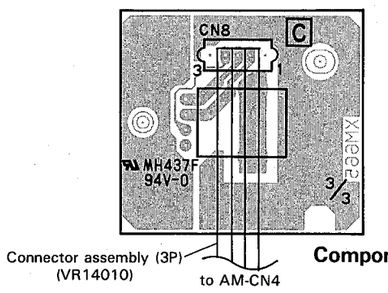


Notes)

Circuit Board : PSW +CABLE(2P) (NX006660)XM665C0 PSR-1700
Circuit Board : PSW +CABLE(2P) (NX006580)XM665C0 PSR-2700

1. PUSH SWITCH
   SDDLB1 J, UC, CEE (VQ670600) POWER
2. CONNECTOR ASSEMBLY
   CN10: POWER SWITCH 2P (VR12870) to AM-CN9

• MVR Circuit Board

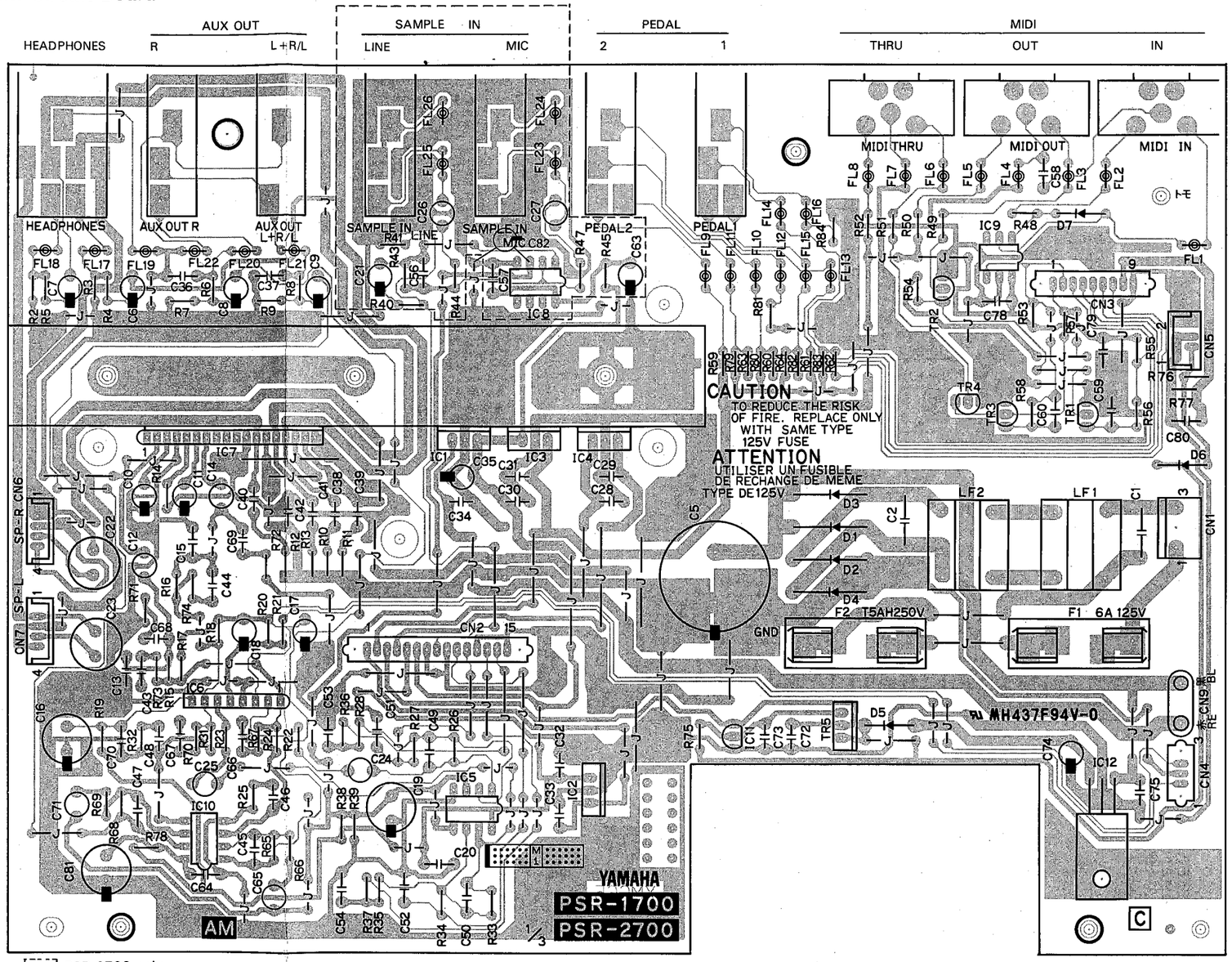


Notes)

Circuit Board : MVR +CABLE(3P) (NX006670)XM665C0 PSR-1700
Circuit Board : MVR +CABLE(3P) (NX006590)XM665C0 PSR-2700

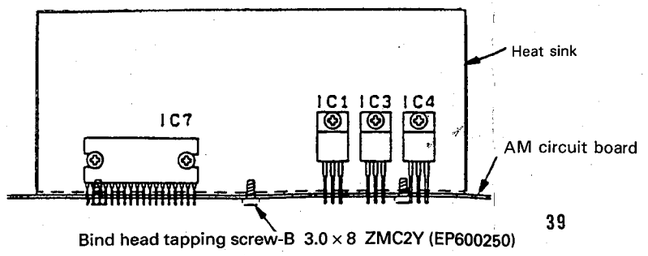
1. ROTARY POT.
   B10K RK11K1130 (VQ670500) MASTER VOLUME
2. CABLE HOLDER
   CN 8: 51048-3P TE (VI87810) to AM-CN 4

• AM Circuit Board

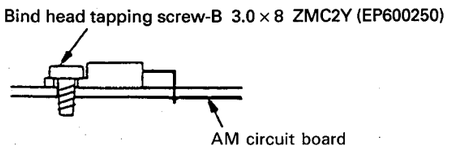


PSR-2700 only

• IC1, 3, 4, 7 installation



• IC12 installation



Notes)

Circuit Board : AM (NX006650)XM665C0 PSR-1700

1. DIODE
   - D 1~4: 30D2-FC6 (VR145300)
   - D 5: 11ES4 (VB481900)
   - D 6, 7: 1SS133,1SS176 (VB941200)
2. PHONE JACK
   - HEAD PHONES: YKB21-5006 (LB101870) HEADPHONES
   - AUX OUT R: YKB21-5012 (VB312600) AUX OUT R
   - AUX OUT L+R/L: YKB21-5014 (VC687500) AUX OUT L+R/L
   - PEDAL 1, 2: YKB21-5074 (VM576000) PEDAL
3. DIN JACK
   - MIDI IN, OUT, THRU: 5P YKF51-5050 (VJ107200) MIDI IN, OUT, THRU
4. COIL
   - FL 1~26: FL5R200QNT 20uH (VB835000) 19pcs
5. IC
   - IC 1, 12: AN7709F (XN320A00) REGULATOR +9V
   - IC 2~4: NJM7805FA (XJ607A00) REGULATOR +5V
   - IC 5, 8, 10: µPC4570C (XC520A00) OP AMP
   - IC 6: M5222L (IG120700) VCA
   - IC 7: LA4705 15W BTL (XM593A00) POWER AMP
   - IC11: S-81250PG-T (XM993A00) REGULATOR +5V
6. PHOTO COUPLER
   - IC 9: PC-900V (VG181900)
7. LINE FILTER
   - LF 1: UF1922S-200Y2R0 (VQ856200)
8. TRANSISTOR
   - TR 1~4: 2SC1740S R, S (IC174070)
   - TR 5: 2SB1274 R, S (VC614000)
9. BASE POST CONNECTOR
   - CN 1: VH-3P TE (LB932030) to P.T.
   - CN 5: PH-2P TE (VB389800) to BT
10. CABLE HOLDER
    - CN 2: 51048-15P TE (VI87930) to DM-CN 4
    - CN 3: 51048-9P TE (VI87870) to DM-CN 6
    - CN 4: 51048-3P TE (VI87810) to MVR-CN 8
11. WIRE TRAP
    - CN 6: 52147-2P TE (VK02460) to SPEAKER-R
    - CN 7: 52147-2P TE (VK02460) to SPEAKER-L
12. FUSE
    - F 1: 6.00A JU 125V (KB003640)
    - F 2: T 5.00A A 250V (KB003350)
13. CERAMIC CAP.
    - C 1, 2: 0.1U 25V Z (VD829400)
    - C13, 15: 270P 50V K (VD841900)
    - C20, 42, 64, 70, 78, 79: 47000P 16V Z (VK392400)
    - C36, 37 2200P 16V N (VD843000)
    - C43, 44: 680P 50V K (VD842400)
    - C45, 47: 27P 50V J (VD840600)
    - C49, 50: 82P 50V K (VD841200)
    - C51, 52, 58: 10000P 16V N (VD843800)
    - C59, 66, 67: 820P 50V K (VD842500)
    - C60: 470P 50V K (VD842200)
    - C80: 1000P 50V K (VD842600)
14. ELECTROLYTIC CAP.-BP
    - C24, 25 1.00 50.0V (UK866100)
    - C65, 71: 2.20 50.0V (UK866220)
15. SEMICONDUCTIVE CERA. CAP.
    - C28, 30, 32, 34, 73, 75: 0.1000 25V Z (VC694800)
16. MONOLITHIC MYLAR CAP.
    - C29, 31, 33, 38~41, 72: 0.10 50V J (VE326000)
17. MYLAR CAP.
    - C46, 48: 0.047 50V J (UA654470)
    - C68, 69: 0.027 50V J (UA654270)
18. ELECTROLYTIC CAP.
    - C5: 10000 25.0V (VR128600)
19. JUMPER WIRE
    - -J-: 0.55 (VA078900)

Notes)

Circuit Board : AM (NX006570)XM665C0 PSR-2700

1. DIODE
   - D 1~4: 30D2-FC6 (VR145300)
   - D 5: 11ES4 (VB481900)
   - D 6, 7: 1SS133,1SS176 (VB941200)

2. PHONE JACK
   - HEADPHONS: YKB21-5006 (LB101870) HEADPHONES
   - AUX OUT R: YKB21-5012 (VB312600) AUX OUT R, SAMPL
   - LINE: YKB21-5012 (VB312600) SAMPLE IN LINE
   - MIC: YKB21-5012 (VB312600) SAMPLE IN MIC
   - AUX OUT L+R/L: YKB21-5014 (VC687500) AUX OUT L+R/L
   - PEDAL 1, 2: YKB21-5074 (VM576000) PEDAL

3. DIN JACK
   - MIDI IN, OUT, THRU: 5P YKF51-5050 (VJ107200) MIDI IN, OUT, THRU

4. COIL
   - FL 1~26: FL5R200QNT (VB835000) 20uH 23pcs

5. IC
   - IC 1, 12: AN7709F (XN320A00) REGULATOR +9V
   - IC 2~4: NJM7805FA (XJ607A00) REGULATOR +5V
   - IC 5, 8, 10: UPC4570C (XC520A00) OP AMP
   - IC 6: M5222L (IG120700) VCA
   - IC 7: LA4705 15W BTL (XM593A00) POWER AMP
   - IC11: S-81250PG-T (XM993A00) REGULATOR +5V

6. PHOTO COUPLER
   - IC 9: PC-900V (VG181900)

7. LINE FILTER
   - LF 1: UF1922S-200Y2R0 (VQ856200)

8. TRANSISTOR
   - TR 1~4: 2SC1740S R,S (IC174070)
   - TR 5: 2SB1274 R,S (VC614000)

9. BASE POST CONNECTOR
   - CN 1: VH-3P TE (LB932030) to P.T.
   - CN 5: PH-2P TE (VB389800) to BT

10. CABLE HOLDER
    - CN 2: 51048-15P TE (VI87930) to DM-CN 4
    - CN 3: 51048-9P TE (VI87870) to DM-CN 6
    - CN 4: 51048-3P TE (VI87810) to MVR-CN 8

11. WIRE TRAP
    - CN 6: 52147-2P TE (VK02460) to SPEAKER-R
    - CN 7: 52147-2P TE (VK02460) to SPEAKER-L

12. FUSE
    - F 1: 6.00A JU 125V (KB003640)
    - F 2: T 5.00A A 250V (KB003350)

13. CERAMIC CAP.
    - C 1, 2: 0.1U 25V Z (VD829400)
    - C13, 15: 270P 50V K (VD841900)
    - C20, 42, 57, 64, 70, 78, 79: 47000P 16V Z (VK392400)
    - C36, 37: 5600P 16V N (VD843500)
    - C43, 44: 680P 50V K (VD842400)
    - C45, 47: 27P 50V J (VD840600)
    - C49, 50, 56: 82P 50V K (VD841200)
    - C51, 52, 53, 54, 58: 10000P 16V N (VD843800)
    - C59: 820P 50V K (VD842500)
    - C60: 470P 50V K (VD842200)
    - C66, 67, 80: 1000P 50V K (VD842600)

14. ELECTROLYTIC CAP.-BP
    - C24, 25, 26: 1.00 50.0V (UK866100)
    - C27: 10.00 50.0V (UK567100)
    - C65, 71: 2.20 50.0V (UK866220)

15. SEMICONDUCTIVE CERA. CAP.
    - C28, 30, 32, 34, 73, 75: 0.1000 25V Z (VC694800)

16. MONOLITHIC MYLAR CAP.
    - C29, 31, 33, 38~41, 72: 0.10 50V J (VE326000)

17. MYLAR CAP.
    - C46, 48: 0.047 50V J (UA654470)
    - C68, 69: 0.027 50V J (UA654270)

18. ELECTROLYTIC CAP.
    - C5: 10000 25.0V (VR128600)

19. JUMPER WIRE
    - -J-: 0.55 (VA078900)

PORTATONE

PSR-1700

PARTS LIST

■ CONTENTS

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Note) DESTINATION ABBREVIATIONS

J : Japanese model	A : Australian model
U : U.S.A. model	E : European model
C : Canadian model	D : German model
X : General model	B : British model
M : South African model	I : Indonesian model
H : North European model	

■ **WARNING**

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

- The numbers with "pc. " or "pcs " in "Remarks " show quantities for each unit.
- The parts with "——" in "Part No." are not available as spare parts.

■ELECTRICAL PARTS

	Ref.	Part No.	Description		部品名	Remarks	ランク
			<ELECTRICAL PARTS>		＜電気部品＞	PSR1700	
*		VQ470800	CIRCUIT BOARD	DM	ＤＭシート	J,B,A	56
*		VQ470700	CIRCUIT BOARD	DM	ＤＭシート	U,E,C	57
*		NX006600	CIRCUIT BOARD	PNL	ＰＮＬシート		
*		NX006610	CIRCUIT BOARD	RV +CABLE(3P)	ＲＶシート　束線付き		
*		NX006620	CIRCUIT BOARD	PA +CABLE(2P)	ＰＡシート　束線付き		
*		NX006630	CIRCUIT BOARD	MS	ＭＳシート		
*		NX006640	CIRCUIT BOARD	BT +CABLE(2P)	ＢＴシート　束線付き		
*		VQ654400	CIRCUIT BOARD	PNR	ＰＮＲシート		13
*		NX006650	CIRCUIT BOARD	AM	ＡＭシート		
*		NX006660	CIRCUIT BOARD	PSW +CABLE(2P)	ＰＳＷｼｰﾄ 束線付き		
*		NX006670	CIRCUIT BOARD	MVR +CABLE(5P)	ＭＶＲｼｰﾄ 束線付き		
*		VQ654500	CIRCUIT BOARD	MKS	ＭＫＳシート		10
*		VQ470800	CIRCUIT BOARD	DM	ＤＭシート	J,B,A	56
*		VQ470700	CIRCUIT BOARD	DM	ＤＭシート	U,E,C	57
*		VD840700	CERAMIC CAP.-SL	33P 50V J	円筒セラ（ＳＬ）		01
*		VD841300	CERAMIC CAP.-B	100P 50V K	円筒セラ（Ｂ）		01
*		VD841400	CERAMIC CAP.-B	120P 50V K	円筒セラ（Ｂ）		01
		VD843800	CERAMIC CAP.-Y	10000P 16V N	円筒セラ（Ｙ）		01
		VK392400	CERAMIC CAP.-F	47000P 16V Z	円筒セラ（Ｆ）		01
		UK866470	ELECTROLYTIC CAP.-BP	4.70 50.0V	ＢＰケミコン		01
		GE300610	FERRITE BEAD	BL02RN1-R62T4	フェライトビーズ		01
*		VM898600	FERRITE BEAD	EXC-ELDR35V	フェライトビーズ	U,E,C only	01
		VF238600	RESISTOR ARRAY	RGLE8X473J	抵抗アレイ		01
		VF773500	RESISTOR ARRAY	RGLE4X103J	抵抗アレイ		01
		VN927500	RESISTOR ARRAY	RGLE6X102J	抵抗アレイ		01
*		VQ665000	RESISTOR ARRAY	RGLE11X473J	抵抗アレイ		01
		XC520A00	IC	UPC4570C	ＩＣ	OP AMP	01
		XL559A00	IC	AN8005-(TA)	ＩＣ	REGULATOR +5V	03
		IG052800	IC	TC40H032P	ＩＣ	OR	03
		IG096400	IC	TC40H008P	ＩＣ	AND	03
		IG111900	IC	TC40H138P	ＩＣ	DEC DEMP	04
*		IR001410	IC	HD74HC14P	ＩＣ	INV	
		IR003250	IC	SN74HC32N	ＩＣ	OR	03
		IR007450	IC	SN74HC74N	ＩＣ	DFF	04
		IR012550	IC	SN74HC125N	ＩＣ	3S-BUFF	03
		XM717A00	IC	RE5VA45CA-TZ	ＩＣ	RESET IC	03
*		XM722A00	IC	74AC11004	ＩＣ	INV	02
*		XM723A00	IC	74AC11000	ＩＣ	NAND	02
		XM724A00	IC	74AC11138	ＩＣ	DEC DEMP	02
*		XM966A00	IC	HD74UH4066	ＩＣ	ANALOG SW	02
		XB920A00	IC	MSM82C55A-2RS	ＩＣ	I/O	06
		XI939A00	IC	HD63266F	ＩＣ	FDC	09
		XJ797A00	IC	HD6415108F10	ＩＣ	CPU	09
*		XM744A00	IC	HD64180ZRP10	ＩＣ	CPU(Z80)	09
*		XL978A00	IC	TC51832APL-10	ＩＣ	PS RAM 256K	08
		XM605A00	IC	CAT548128L-10RS	ＩＣ	PS RAM 1M	12
*		XM984B00	IC	HN624017PZ11	ＩＣ	16M ROM(WAVE)	
*		XN303A00	IC		ＩＣ	16M ROM(STYLE)	
*		XN281C00	IC		ＩＣ	4M ROM(PROGRAM	
*		XM986C00	IC		ＩＣ	1M ROM	
		XE449A00	IC	YM3413	ＩＣ	LDSP	11
		XJ427A00	IC	YMW258-F	ＩＣ	GEW8	09
		XM145A00	IC	UPD63200GS	ＩＣ	DAC	07
*		XM972A00	IC	TC518128APL80LV	ＩＣ	PS RAM 1M	13
		--	CONNECTOR	52147-15P TE	コネクタ	(VF66760)	
		VF728300	CONNECTOR	52147-6P TE	コネクタ		01
		--	WIRE TRAP	52147-3P TE	ワイヤートラップ	(VK02470)	
		--	WIRE TRAP	52147-8P TE	ワイヤートラップ	(VK02520)	
		--	WIRE TRAP	52147-9P TE	ワイヤートラップ	(VK02530)	
		--	CONNECTOR	52045-24P TE	コネクタ	(VP12770)	
		--	CONNECTOR	52045-36P TE	ＦＦＣコネクター	(VQ04850)	
		--	CONNECTOR	52233-16P TE	ＦＦＣコネクター	(VQ67070)	
		VJ532800	IC SOCKET	DICF-32CS-E	ＩＣソケット	1pc.	02
		VK863100	IC SOCKET	DICF-42CS-E	ＩＣソケット	3pcs	03
		VQ395400	EMI FILTER	EXC-ECT221	ＬＣフィルターＥＭＩ	U,E,C only	01
*		VQ666000	QUARTZ CRYSTAL UNIT	18.8M AT-49	水晶振動子		03
		VJ337900	CERAMIC RESONATOR	CST10.0MTW	セラミック振動子	10.0MHz	02
		VJ338400	CERAMIC RESONATOR	500K CSU500P	セラミック振動子		02

*New Parts（新規部品）

ランク:Japan only

	Ref.	Part No.	Description		部品名	Remarks	ランク
		VK966200	CERAMIC RESONATOR	CST16.00MXW0	セラミック振動子	16.0MHz	02
		VH480900	TRANSISTOR ARRAY	AN90B22	トランジスタアレイ		02
*		VR346900	THERMISTOR	ERT D2FGJ	サーミスタ		03
		VJ337600	DIGITAL TRANSISTOR	DTB123ES TP	デジタルトランジスタ		01
		VA078900	JUMPER WIRE	0.55	ジャンパー線		
		VL448600	JUMPER WIRE	0.6	ジャンパー線	U,E,C only	
*		NX006600	CIRCUIT BOARD	PNL	ＰＮＬシート		
		VQ371700	TACT SWITCH	SKHVBL042A H=7	タクトスイッチ		01
		--	CONNECTOR	FJ-10P	ＦＪショートプラグ	(VL54870)	
		--	CONNECTOR	FJ-12P	ＦＪショートプラグ	(VL54890)	
		--	CONNECTOR HOUSING	04P-FJ 4P	コネクタハウジング	(VQ65670)	
		--	CABLE HOLDER	51048-8P TE	ケーブルホルダー	(VI87860)	
		--	CONNECTOR	52044-36P SE	ＦＦＣコネクター	(VQ04650)	
		VB941200	DIODE	1SS133,1SS176	ダイオード		01
		VJ348700	LED	SLN-210VCT12 RE	ＬＥＤ		01
		VP218300	LED	SLN-210MTT12 GR	ＬＥＤ	EDIT 4pcs	01
		VA078900	JUMPER WIRE	0.55	ジャンパー線		
		--	FRAT CABLE	8P L=130	ケーブル	(VR07060)	
*		NX006610	CIRCUIT BOARD	RV +CABLE(3P)	ＲＶシート　束線付き		
		VQ371700	TACT SWITCH	SKHVBL042A H=7	タクトスイッチ		01
		VQ371800	ROTARY ENCODER	EVQ WP5 F15 24B	１６形エンコーダ		04
		--	FRAT CABLE	3P L=80	ケーブル	(VQ65520)	
		--	CABLE HOLDER	51048-3P TE	ケーブルホルダー	(VI87810)	
		VK217100	CONNECTOR	FJ-8P	ＦＪ－リセプタクル		01
		VJ348700	LED	SLN-210VCT12 RE	ＬＥＤ		01
*		NX006620	CIRCUIT BOARD	PA +CABLE(2P)	ＰＡシート　束線付き		
		--	CABLE HOLDER	51048-2P TE	ケーブルホルダー	(VI87800)	
		--	WIRES	2P L=100	ケーブル	(VQ65500)	
		VQ371700	TACT SWITCH	SKHVBL042A H=7	タクトスイッチ		01
		--	CONNECTOR	04R-FJ 4P TE	ＦＪコネクタ	(VQ65600)	
*		NX006630	CIRCUIT BOARD	MS	ＭＳシート		
		VQ320400	TACT SWITCH	SKHBE091A	タクトスイッチ		01
*		NX006640	CIRCUIT BOARD	BT +CABLE(2P)	ＢＴシート　束線付き		
*		VQ598800	SPRING TERMINAL	A	電池バネA		04
		--	WIRES	2P L=250	ケーブル	(VR12840)	
		VA078900	JUMPER WIRE	0.55	ジャンパー線		
*		VQ654400	CIRCUIT BOARD	PNR	ＰＮＲシート		13
		VQ371700	TACT SWITCH	SKHVBL042A H=7	タクトスイッチ		01
		--	CONNECTOR	FJ- 8P	ＦＪ－Ｌ　プラグ	(VK21630)	
		VK217300	CONNECTOR	FJ-10P	ＦＪ－リセプタクル		01
		VK217500	CONNECTOR	FJ-12P	ＦＪ－リセプタクル		02
		VD631600	DIODE	1SS133,176,	ダイオード	HSS104	01
		VJ348700	LED	SLN-210VCT12 RE	ＬＥＤ		01
		VA078900	JUMPER WIRE	0.55	ジャンパー線		
*		NX006650	CIRCUIT BOARD	AM	ＡＭシート		
		EP600250	BIND HEAD TAPPING SCREW-B	3.0X8 ZMC2Y	＋バインドＢタイト		01
		VE326000	MONOLITHIC MYLAR CAP.	0.10 50V J	積層マイラーコン		01
		UA654270	MYLAR CAP.	0.027 50V J	マイラーコン		01
		UA654470	MYLAR CAP.	0.047 50V J	マイラーコン		01
		VD829400	CERAMIC CAP.-F	0.1U 25V Z	円筒セラ（Ｆ）		01
		VD840600	CERAMIC CAP.-SL	27P 50V J	円筒セラ（ＳＬ）		01
*		VD841200	CERAMIC CAP.-B	82P 50V K	円筒セラ（Ｂ）		01
		VD841900	CERAMIC CAP.-B	270P 50V K	円筒セラ（Ｂ）		01
*		VD842200	CERAMIC CAP.-B	470P 50V K	円筒セラ（Ｂ）		01
*		VD842400	CERAMIC CAP.-B	680P 50V K	円筒セラ（Ｂ）		01
*		VD842500	CERAMIC CAP.-B	820P 50V K	円筒セラ（Ｂ）		01
*		VD842600	CERAMIC CAP.-B	1000P 50V K	円筒セラ（Ｂ）		01
		VD843000	CERAMIC CAP.-X	2200P 16V N	円筒セラ（Ｘ）		01
		VD843800	CERAMIC CAP.-Y	10000P 16V N	円筒セラ（Ｙ）		01
		VK392400	CERAMIC CAP.-F	47000P 16V Z	円筒セラ（Ｆ）		01
		UK866100	ELECTROLYTIC CAP.-BP	1.00 50.0V	ＢＰケミコン		01
		UK866220	ELECTROLYTIC CAP.-BP	2.20 50.0V	ＢＰケミコン		01

*New Parts（新規部品）

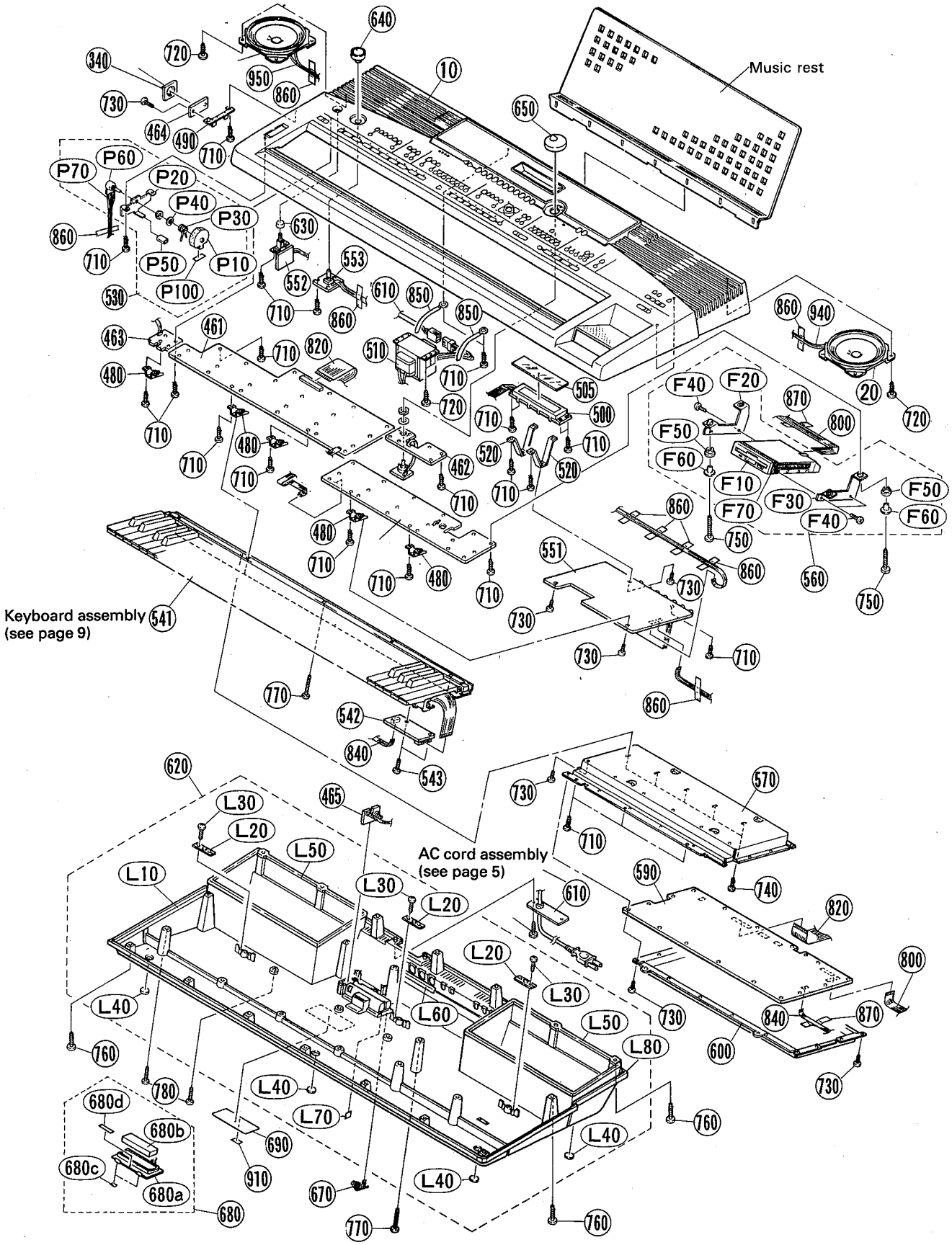
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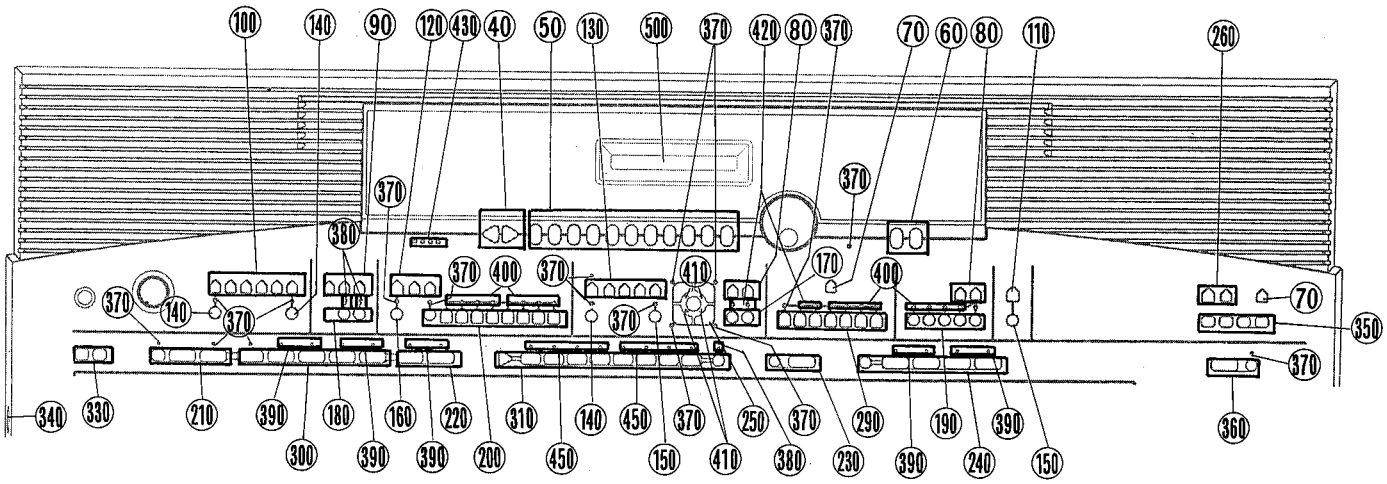
	Ref.	Part No.	Description		部品名	Remarks	ランク
*	⚠	VR128600	ELECTROLYTIC CAP.	10000 25.0V	ケミコン		01
		VC694800	SEMICONDUCTIVE CERA. CAP.	0.1000 25V Z	半導体セラコン		01
		VB389800	BASE POST CONNECTOR	PH-2P TE	コネクタベースポスト		01
		LB201530	FUSE HOLDER	PC-FH1	ヒューズホルダ		01
		--	HEAT SINK		放熱板	(VQ45630)	
		--	VIBRATION-PROOF TAPE	3.5X35X0.5	防振テープ	(VM92820)	
		VA078900	JUMPER WIRE	0.55	ジャンパー線		
*	⚠	VR145300	DIODE	30D2-FC6	ダイオード		01
	⚠	VB481900	DIODE	11ES4	ダイオード		01
		VB941200	DIODE	1SS133,1SS176	ダイオード		01
	⚠	KB003640	FUSE	6.00A JU 125V	ヒューズ		01
*	⚠	KB003350	FUSE	T 5.00A A 250V	ヒューズ		
		LB101870	PHONE JACK	YKB21-5006	ホーンジャック	HEADPHONES	03
		VB312600	PHONE JACK	YKB21-5012	ホーンジャック (黒)	AUX OUT R	02
		VC687500	PHONE JACK	YKB21-5014	ホーンジャック (黒)	AUX OUT L+R/L	01
		VM576000	PHONE JACK	YKB21-5074	ホーンジャック (黒)	PEDAL	02
		VJ107200	DIN JACK	5P YKF51-5050	DINジャック	MIDI IN/OUT/THR	01
		LB932030	BASE POST CONNECTOR	VH-3P TE	ベースポスト		01
		--	CABLE HOLDER	51048-15P TE	ケーブルホルダー	(VI87930)	
		--	CABLE HOLDER	51048-9P TE	ケーブルホルダー	(VI87870)	
		--	WIRE TRAP	52147-2P TE	ワイヤートラップ	(VK02460)	
		--	CABLE HOLDER	51048-3P TE	ケーブルホルダー	(VI87810)	
		VB835000	COIL	FL5R200QNT 20uH	コイル		01
*	⚠	XN320A00	IC	AN7709F	IC	REGULATOR +9V	02
	⚠	XJ607A00	IC	NJM7805FA	IC	REGULATOR +5V	02
		XC520A00	IC	UPC4570C	IC	OP AMP	01
		IG120700	IC	M5222L	IC	VCA	04
	⚠	XM593A00	IC	LA4705 15W BTL	IC	POWER AMP	06
		VG181900	PHOTO COUPLER	PC-900V	フォトカプラ		03
*	⚠	XM993A00	IC	S-81250PG-T	IC	REGULATOR +5V	02
*	⚠	VQ856200	LINE FILTER	UF1922S-200Y2R0	ラインフィルター		04
		IC174070	TRANSISTOR	2SC1740S R,S	トランジスタ		01
	⚠	VC614000	TRANSISTOR	2SB1274 R,S	トランジスタ		02
		--	CONNECTOR ASSEMBLY	AM-DM1	AM-DM束線 1	(VQ66970)	
		--	CONNECTOR ASSEMBLY	AM-DM2 9P L=159	AM-DM束線 2	(VR06220)	
*		NX006660	CIRCUIT BOARD	PSW +CABLE(2P)	PSWシート 束線付き		
	⚠	VQ670600	PUSH SWITCH	SDDLB1 J,UC,CEE	プッシュスイッチ	POWER	03
		--	CONNECTOR ASSEMBLY	POWER SWITCH 2P	P. SW束線	(VR12870)	
*		NX006670	CIRCUIT BOARD	MVR +CABLE(3P)	MVRシート 束線付き		
*		VQ670500	ROTARY POT.	B10K RK11K1130	ロータリーボリューム	MASTER VOLUME	02
		--	CONNECTOR ASSEMBLY	VR 3P L=379	VR束線	(VR14010)	
*		VQ654500	CIRCUIT BOARD	MKS	MKSシート		10
		FG651220	CERAMIC CAP.-SL	22P 50V J	セラコン (SL)		01
		VK392400	CERAMIC CAP.-F	47000P 16V Z	円筒セラ (F)		01
		UJ828100	ELECTROLYTIC CAP.	100.00 10.0V	ケミコン		01
		VL409500	COIL	BL03RN2-R62T4	コイル	0.45uH	01
		VL674500	RESISTOR ARRAY	RGLE12X223J	抵抗アレイ		01
*		XN040B00	IC	HD63B05V	IC	KEY SCANNER CPU	
		VF728300	CONNECTOR	52147-6P TE	コネクタ		01
		--	CONNECTOR	52044-23P SE	FFCコネクター	(VQ04530)	
		VA078900	JUMPER WIRE	0.55	ジャンパー線		
	CR1	VN002100	CERAMIC RESONATOR	CST8.00MTW140	セラミック振動子		02
	CR1	VQ305500	CERAMIC RESONATOR	EF0EC8004T3	セラミック振動子	8.00MHz	02
*		XM794A00	SPEAKER	12.0cm 4ohm 6W	スピーカ	2pcs	08
		VM488300	FLOPPY DISK DRIVE	EME-213YV 3.5"	3.5" FDD		21
*	⚠	XM945B00	POWER TRANSFORMER		電源トランス		11

*New Parts (新規部品)

ランク:Japan only

■ OVERALL ASSEMBLY





● LOWER CASE ASSEMBLY

	Ref.	Part No.	Description		部品名	Remarks	ランク
*		VQ597900	<LOWER CASE ASSEMBLY>		＜下ケースＡｓｓｙ＞	PSR1700	
	L10	--	LOWER CASE		下ケース成形品	(VQ47450)	16
	L20	AA056250	HOLDER, LEG		脚取り付け金具	3pcs	01
	L30	EP600280	BIND HEAD TAPPING SCREW-P	3.0X8 ZMC2Y	＋バインドＰタイト	6pcs	01
	L40	CB043750	FOOT	BL	ゴム足	5pcs	01
	L50	--	SPACER TAPE	A	スペーサテープＡ	2pcs (VQ59850)	
	L60	--	VIBRATION-PROOF TAPE	100X10X0.5	防振テープ	1pc. (VR16380)	
	L70	--	VIBRATION-PROOF TAPE	15X10X0.5	防振テープ	1pc. (VR16430)	
	L80	--	SPACER TAPE	B	スペーサテープＢ	2pcs (VQ59850)	

*New Parts (新規部品)

ランク:Japan only

● FDD ASSEMBLY

	Ref.	Part No.	Description		部品名	Remarks	ランク
		--	<FDD ASSEMBLY>		＜ＦＤＤ　Ａｓｓｙ＞	PSR1700(VQ59860	
	10	VM488300	FLOPPY DISK DRIVE	EME-213YV 3.5"	３．５”ＦＤＤ		21
*	20	VQ489400	HOLDER, FDD	L	ＦＤＤ金具　Ｌ	1pc.	04
*	30	VQ489500	HOLDER, FDD	R	ＦＤＤ金具　Ｒ	1pc.	04
	40	EJ030056	PAN HEAD SCREW	3.0X5 ZMC2Y	＋ナベ小ネジ	4pcs (0375111)	01
	50	VA121600	RUBBER BUSHING		ゴムブッシュ	4pcs	01
	60	VK431100	FDD SPACER		ＦＤＤスペーサー	4pcs	01
	70	--	ADHESIVE TAPE	ECT #590S W=15	綿粘着テープ	(ZL35000)	01

*New Parts (新規部品)

ランク:Japan only

● PITCH BEND CONTROL ASSEMBLY

Ref.	Part No.	Description		部品名	Remarks	ランク
	--	<PITCH BEND ASSEMBLY>		＜ピッチベンドAssy＞	PSR1700(VQ59870	
P10	VL398300	WHEEL	D50	ホイール		03
P20	VL398400	ANGLE BRACKET	D50	ホイール金具		03
P30	VL398500	WHEEL SPRING	D50	ホイールスプリング		03
P40	VL483100	WHEEL RING	10.0	ＣＳ形止め輪		01
P50	--	TUBE	WH	ホイールチューブ	(VL48320)	
P60	VL491200	VARIABLE RESISTOR	B10.0K EWH 9UAF	ロータリーＶＲ		03
P70	--	CONNECTOR ASSEMBLY	PB 280mm	ＰＢ束線	(VQ64060)	
P100	--	VIBRATION-PROOF TAPE	13X19X0.5	防振テープ	(VL99740)	

*New Parts (新規部品)

ランク:Japan only

• OVERALL ASSEMBLY

	Ref.	Part No.	Description		部品名	Remarks	ランク
			<OVERALL ASSEMBLY>		<総組立>	PSR1700	
*	10	VQ597600	UPPER CASE		上ケース加工品		18
*	20	XM794A00	SPEAKER	12.0cm 4ohm 6W	スピーカ	2pcs	08
	40	VQ286000	KEY TOP-A	x2 GY	キートップA	1pc.	03
	50	VQ286100	KEY TOP-B	x11 GY	キートップB	1pc.	05
	60	VQ286200	KEY TOP-C	x2 GY	キートップC	1pc.	03
	70	VQ286300	KEY TOP-D	x1 GY	キートップD	2pcs	03
	80	VQ286400	KEY TOP-E	x2 GY	キートップE	2pcs	03
	90	VQ286500	KEY TOP-F	x3 GY	キートップF	1pc.	03
	100	VQ286700	KEY TOP-H	x6 GY	キートップH	1pc.	03
	110	VQ286800	KEY TOP-I	x1 GY	キートップI	1pc.	03
	120	VQ286900	KEY TOP-J	x3 GY	キートップJ	1pc.	03
	130	VQ287800	KEY TOP-L	x5 GY	キートップL	1pc.	03
	140	VQ287900	KEY TOP-M	x1 VI	キートップM	3pcs	03
	150	VQ288000	KEY TOP-MM	x1 YE	キートップMM	2pcs	03
	160	VQ592000	KEY TOP-MMM	x1 GR	キートップMMMM	1pc.	03
	170	VQ288100	KEY TOP-N	x2 VI	キートップN	1pc.	03
	180	VQ288300	KEY TOP-O	x3 VI	キートップO	1pc.	03
	190	VQ288400	KEY TOP-P	x5 RE/VI	キートップP	1pc.	03
	200	VQ288600	KEY TOP-R	x9 VI/BE	キートップR	1pc.	03
	210	VQ288700	KEY TOP-S	x3 GY	キートップS	1pc.	04
	220	VQ288900	KEY TOP-U	x2 GY	キートップU	1pc.	03
	230	VQ289200	KEY TOP-W	x2 GY	キートップW	1pc.	03
	240	VQ289300	KEY TOP-X	x5 BE	キートップX	1pc.	03
	250	VQ289400	KEY TOP-Y	x5 GR/VI	キートップY	1pc.	04
*	260	VQ489800	KEY TOP-JJ	x2 GY	キートップJJ	1pc.	03
*	290	VQ490100	KEY TOP-RR	x7 BE	キートップRR	1pc.	03
*	300	VQ490200	KEY TOP-TT	x5 GY	キートップTT	1pc.	04
*	310	VQ490300	KEY TOP-VA	x10 RE/GY	キートップVA	1pc.	05
*	330	VQ490600	KEY TOP-ZB	x2 GY	キートップZB	1pc.	03
*	340	VQ490700	KEY TOP-ZC	x1 GY	キートップZC	1pc.	03
*	350	VQ490800	KEY TOP-ZD	x4 GY	キートップZD	1pc.	03
*	360	VQ599000	KEY TOP-WA	x2 GY	キートップWA	1pc.	03
	370	VQ285400	LENS-A	x1	レンズa 1レン	18pcs	03
	380	VQ285500	LENS-B	x2	レンズb タテ2レン	3pcs	03
	390	VQ285600	LENS-C	x2	レンズc 2レン	5pcs	03
	400	VQ285800	LENS-E	x4	レンズe 4レン	4pcs	03
	410	VQ297900	LENS-H	x1	レンズh サンカク	4pcs	03
*	420	VQ490900	LENS-I	x2	レンズI	2pcs	03
*	430	VQ491000	LENS-K	x4	レンズK	1pc.	03
*	450	VQ491200	LENS-N	x4	レンズN	2pcs	03
*	461	NX006600	CIRCUIT BOARD	PNL	PNLシート		
*	462	NX006610	CIRCUIT BOARD	RV +CABLE(3P)	RVシート 束線付き		
*	463	NX006620	CIRCUIT BOARD	PA +CABLE(2P)	PAシート 束線付き		
*	464	NX006630	CIRCUIT BOARD	MS	MSシート		
*	465	NX006640	CIRCUIT BOARD	BT +CABLE(2P)	BTシート 束線付き		
*	470	VQ654400	CIRCUIT BOARD	PNR	PNRシート		13
*	480	VQ489600	HOLDER, MK		MK支持金具	5pcs	03
*	490	VQ489700	HOLDER, MODULATION		モジュレーション取付金具	1pc.	03
*	500	VQ518200	LCD	16X1	液晶ディスプレイ		13
*	505	VQ926300	LCD COVER		液晶保護板	(930)	03
⚠ *	510	XM945B00	POWER TRANSFORMER		電源トランス		11
*	520	VQ489000	HOLDER, AM		AM支持金具	2pcs	04
	530	--	PITCH BEND CONTROL ASS'Y		ピッチベンドAssy	(VQ59870)	
*	541	VQ903500	KEYBOARD ASSEMBLY	C61 K6	16F鍵盤Assy		
*	542	VQ654500	CIRCUIT BOARD	MKS	MKSシート		10
	543	EP600070	BIND HEAD TAPPING SCREW-S	3.0X8 ZMC2Y	+バインドSタイト	2pcs	01
*	551	NX006650	CIRCUIT BOARD	AM	AMシート		
*	552	NX006660	CIRCUIT BOARD	PSW +CABLE(2P)	PSWシート 束線付き		
*	553	NX006670	CIRCUIT BOARD	MVR +CABLE(3P)	MVRシート 束線付き		
	560	--	FDD ASSEMBLY		FDD Assy	(VQ59860)	
*	570	VQ489300	SHIELD BOX	UPPER	シールドボックス 上		08
*	590	VQ470700	CIRCUIT BOARD	DM	DMシート	U,E,C	57
*	590	VQ470800	CIRCUIT BOARD	DM	DMシート	J,B,A	56
*	600	VQ489200	SHIELD BOX	LOWER	シールドボックス 下		07
*	610	VQ651500	AC CORD ASSEMBLY		電源コードAssy	J	09
*	610	VQ651600	AC CORD ASSEMBLY		電源コードAssy	U	09
*	610	VQ651700	AC CORD ASSEMBLY		電源コードAssy	E	09
*	610	VQ651800	AC CORD ASSEMBLY		電源コードAssy	B	11
*	610	VQ651900	AC CORD ASSEMBLY		電源コードAssy	A	10

*New Parts (新規部品)

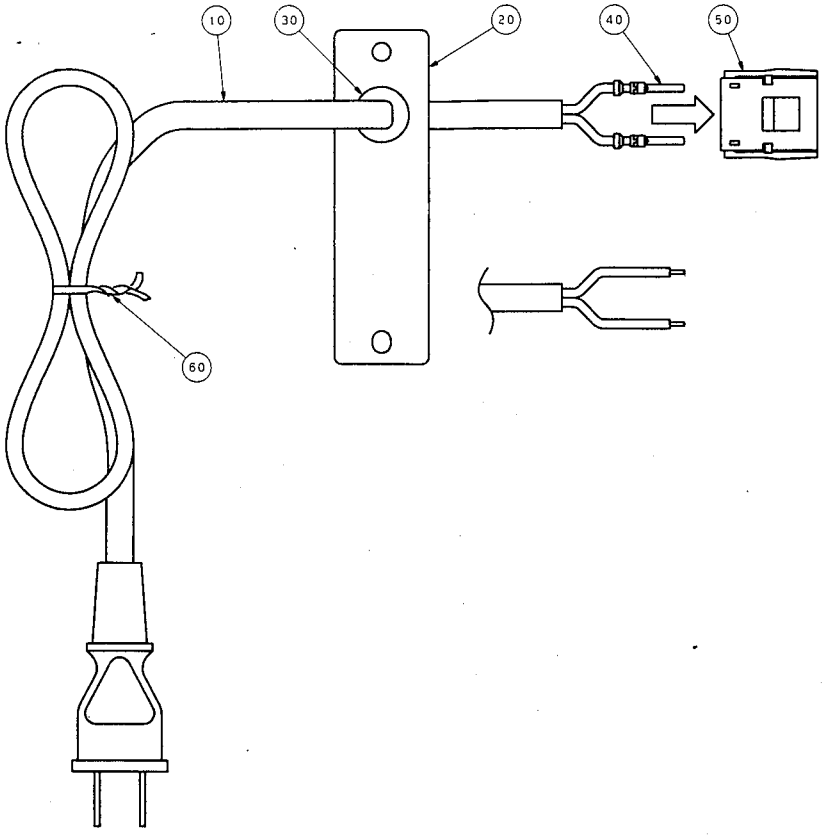
ランク:Japan only

	Ref.	Part No.	Description		部品名	Remarks	ランク
*	610	VQ675400	AC CORD ASSEMBLY		電源コードＡｓｓｙ	C	09
*	620	VQ597900	LOWER CASE ASSEMBLY		下ケースＡｓｓｙ		16
	630	VQ218800	KNOB		プッシュツマミ	POWER	03
	640	VQ218900	KNOB	V	Ｖ－ツマミ	MASTER VOLUME	03
	650	VL921100	ENCODER KNOB	BL	エンコーダーツマミ	1pc.	03
*	670	VQ598900	SPRING TERMINAL	B	電池バネＢ	1pc.	03
	680	VJ601000	BATTERY COVER ASSEMBLY	BL	バッテリーカバーAssy		06
	680a	CB047850	BATTERY COVER	BL	バッテリーカバー		02
	680b	CB047750	BATTERY CUSHION	GY	バッテリークッション	1pc.	01
	680c	--	VIBRATION-PROOF PAD	BL	防振パット	2pcs (CA01485)	
	680d	--	VIBRATION-PROOF TAPE	6X25X0.3	防振テープ	3pcs (VJ56490)	
	690	--	NAME PLATE		銘板	J (VQ64230)	
	690	--	NAME PLATE		銘板	J (VR62980)	
	690	--	NAME PLATE		銘板	U (VQ64240)	
	690	--	NAME PLATE		銘板	E (VQ64250)	
	690	--	NAME PLATE		銘板	B,A (VQ64260)	
	690	--	NAME PLATE		銘板	C (VQ67640)	
	710	EP600280	BIND HEAD TAPPING SCREW-P	3.0X8 ZMC2Y	＋バインドＰタイト	75pcs	01
	720	EP640240	BIND HEAD TAPPING SCREW-P	4.0X8 FCM3BL	＋バインドＰタイト	16pcs	01
	730	EP600410	BIND HEAD TAPPING SCREW-S	3.0X6 ZMC2Y	＋バインドＳタイト	27pcs	01
	740	EP620100	BIND HEAD TAPPING SCREW-P	2.6X8 ZMC2Y	＋バインドＰタイト	5pcs	01
	750	VM839600	BIND HEAD TAPPING SCREW-P	4.0X16 ZMC2Y	＋バインドＰタイト	4pcs	01
	760	VA847600	BIND HEAD TAPPING SCREW-P	4.0X12 ZMC2BL	＋バインドＰタイト	18pcs	01
*	770	VF347000	BIND HEAD TAPPING SCREW-S	3.0X16 ZMC2Y	＋バインドＳタイト	5pcs	01
	780	EP600530	BIND HEAD TAPPING SCREW-S	3.0X8 ZMC2BL	＋バインドＳタイト	10pcs	01
*	800	VR405300	FRAT CABLE	24P FFC	ケーブル		05
*	820	VR405400	FRAT CABLE	36P FFC	ケーブル		04
	840	--	CONNECTOR ASSEMBLY	MK	ＭＫ束線	(VQ66700)	
	850	CB817510	CORD BINDER	S-14B	束線止め	2pcs	01
	860	VA126100	FILAMENT TAPE	12X50	粘着テープ	10pcs	03
	870	--	FILAMENT TAPE	19X70	粘着テープ	2pcs (VF29880)	
	910	--	LABEL	DATE CODE	ラベル	U only(VA03930)	
	940	--	CONNECTOR ASSEMBLY	SP-R	ＳＰ－Ｒ束線	(VQ67030)	
	950	--	CONNECTOR ASSEMBLY	SP-L	ＳＰ－Ｌ束線	(VQ67040)	
			<ACCESSORIES>		＜付属品＞		
	A	VQ284000	MUSIC REST	BL	譜面立て		08
*	B	VQ652400	FLOPPY DISK	3.5 DEMO	フロッピーディスク		05

*New Parts（新規部品）

ランク:Japan only

■AC CORD ASSEMBLY

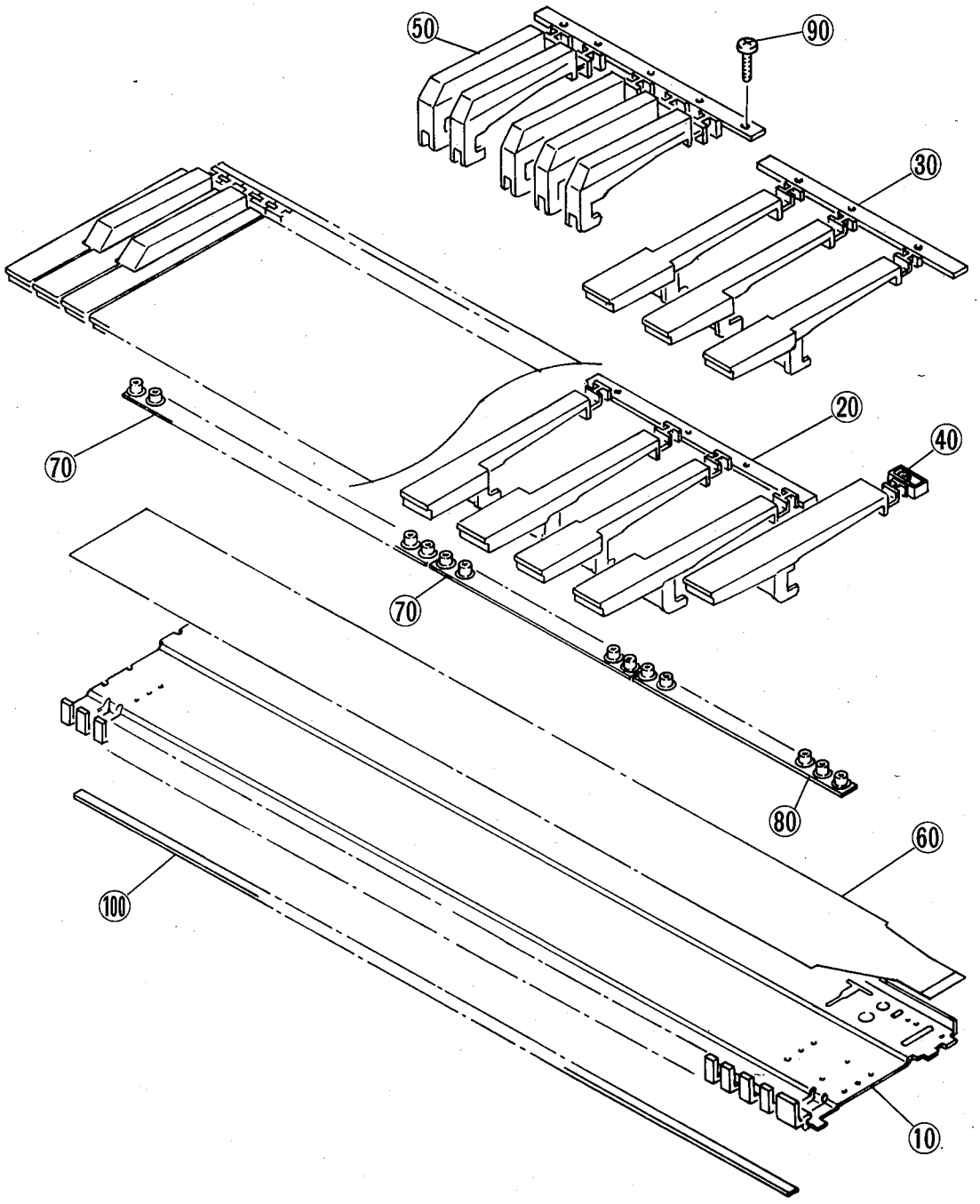


	Ref.	Part No.	Description		部品名	Remarks	ランク
			<AC CORD ASSEMBLY>		＜電源コードAssy＞	PSR1700	
*		VQ651500	AC CORD ASSEMBLY		電源コードＡｓｓｙ	J	09
*		VQ651600	AC CORD ASSEMBLY		電源コードＡｓｓｙ	U	09
*		VQ651700	AC CORD ASSEMBLY		電源コードＡｓｓｙ	E	09
*		VQ651800	AC CORD ASSEMBLY		電源コードＡｓｓｙ	B	11
*		VQ651900	AC CORD ASSEMBLY		電源コードＡｓｓｙ	A	10
*		VQ675400	AC CORD ASSEMBLY		電源コードＡｓｓｙ	C	09
	10	--	AC CORD	7A 2.65m	電源コード	J	
	10	--	AC CORD	10A 2.65m	電源コード	U	
	10	--	AC CORD	10A 2.65m	電源コード	C	
	10	--	AC CORD	2.5A 2.65m	電源コード	E	
	10	--	AC CORD	7.5A 2.65m	電源コード	A	
	10	--	AC CORD	6.0A 2.65m	電源コード	B	
	20	--	PANEL, AC CORD		コードストッパー板	1pc.	
	30	CB032840	CORD STRAIN RELIEF	SR-5N-4	コードストッパー	1pc. J,C,U	01
	30	CB072750	CORD STRAIN RELIEF	SR-4N-4	コードストッパー	1pc. A,E,B	01
	40	--	CONNECTOR PIN	SYM-41T-P0.5	ピンコンタクト	2pcs	
	50	--	CONNECTOR HOUSING	YLR-08V	ハウジング	1pc.	
	60	--	CORD BINDER	L=120	束線止め	1pc. (VB28620)	02

*New Parts（新規部品）

ランク:Japan only

■ KEYBOARD ASSEMBLY



	Ref.	Part No.	Description		部品名	Remarks	ランク
*		VQ903500	<KEYBOARD ASSEMBLY>	C61 K6	＜１６Ｆ鍵盤Assy＞	PSR1700	
	10	--	MK FRAME	BL	ＭＫフレーム	(VQ00020)	
	20	VQ002100	WHITE KEY	CEGB	白鍵ＣＥＧＢ	5pcs	
	30	VQ002200	WHITE KEY	DFA	白鍵ＤＦＡ	5pcs	
	40	VQ002300	WHITE KEY	C'	白鍵Ｃ'	1pc.	03
	50	VQ002400	BLACK KEY	BL	黒鍵	5pcs	05
*	60	VQ855500	CIRCUIT BOARD	2-61	ＭＫシートＵＬ 2-61		10
	70	VQ002800	RUBBER CONTACT	12KEYS	接点ゴム ２Ｍ	4pcs	06
	80	VQ002900	RUBBER CONTACT	13KEYS	接点ゴム ２Ｍ	1pc.	07
	90	VF549100	BIND HEAD TAPPING SCREW-S	3.0X14 ZMC2Y	＋バインドＳタイト	21pcs	
	100	VQ584400	FELT	828X5X1.5 WH	フェルトシロ	1pc.	02

*New Parts（新規部品）

ランク:Japan only

PORTATONE

PSR-2700

PARTS LIST

■ CONTENTS

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Note) DESTINATION ABBREVIATIONS

J : Japanese model	A : Australian model
U : U.S.A. model	E : European model
C : Canadian model	D : German model
X : General model	B : British model
M : South African model	I : Indonesian model
H : North European model	

■ WARNING

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

- The numbers with "pc. " or "pcs " in "Remarks " show quantities for each unit.
- The parts with "——" in "Part No." are not available as spare parts.

■ELECTRICAL PARTS

	Ref.	Part No.	Description		部品名	Remarks	ランク
			<ELECTRICAL PARTS>		＜電気部品＞	PSR2700	
*		VQ470600	CIRCUIT BOARD	DM	ＤＭシート	J,B,A	
*		VQ470500	CIRCUIT BOARD	DM	ＤＭシート	U,E,C	
*		NX006500	CIRCUIT BOARD	PNL	ＰＮＬシート		
*		NX006510	CIRCUIT BOARD	RV +CABLE(3P)	ＲＶシート　束線付き		
*		NX006520	CIRCUIT BOARD	PA +CABLE(2P)	ＰＡシート　束線付き		
*		NX006530	CIRCUIT BOARD	MS	ＭＳシート		
*		NX006540	CIRCUIT BOARD	BT +CABLE(2P)	ＢＴシート　束線付き		
*		NX006550	CIRCUIT BOARD	PNR	ＰＮＲシート		
*		NX006560	CIRCUIT BOARD	SV +CABLE(3P)	ＳＶシート　束線付き		
*		NX006570	CIRCUIT BOARD	AM	ＡＭシート		
*		NX006580	CIRCUIT BOARD	PSW +CABLE(2P)	ＰＳＷｼｰﾄ 束線付き		
*		NX006590	CIRCUIT BOARD	MVR +CABLE(5P)	ＭＶＲｼｰﾄ 束線付き		
*		VQ590700	CIRCUIT BOARD	SA	ＳＡシート	J,B,A	
*		VR244300	CIRCUIT BOARD	SA	ＳＡシート	U,E,C	
*		VQ654500	CIRCUIT BOARD	MKS	ＭＫＳシート		10
*		VQ470600	CIRCUIT BOARD	DM	ＤＭシート	J,B,A	
*		VQ470500	CIRCUIT BOARD	DM	ＤＭシート	U,E,C	
*		VD840700	CERAMIC CAP.-SL	33P 50V J	円筒セラ（ＳＬ）		01
*		VD841300	CERAMIC CAP.-B	100P 50V K	円筒セラ（Ｂ）		01
*		VD841400	CERAMIC CAP.-B	120P 50V K	円筒セラ（Ｂ）		01
		VD843800	CERAMIC CAP.-Y	10000P 16V N	円筒セラ（Ｙ）		01
		VK392400	CERAMIC CAP.-F	47000P 16V Z	円筒セラ（Ｆ）		01
		UK866470	ELECTROLYTIC CAP.-BP	4.70 50.0V	ＢＰケミコン		01
		GE300610	FERRITE BEAD	BL02RN1-R62T4	フェライトビーズ		01
*		VM898600	FERRITE BEAD	EXC-ELDR35V	フェライトビーズ	U,E,C only	01
		VF238600	RESISTOR ARRAY	RGLE8X473J	抵抗アレイ		01
		VF773500	RESISTOR ARRAY	RGLE4X103J	抵抗アレイ		01
		VL207800	RESISTOR ARRAY	RGLE7X473J	抵抗アレイ		01
		VN927500	RESISTOR ARRAY	RGLE6X102J	抵抗アレイ		01
*		VQ665000	RESISTOR ARRAY	RGLE11X473J	抵抗アレイ		01
		XC520A00	IC	UPC4570C	ＩＣ	OP AMP	01
		XL559A00	IC	AN8005-(TA)	ＩＣ	REGULATOR +5V	03
		IG052800	IC	TC40H032P	ＩＣ	OR	03
		IG096400	IC	TC40H008P	ＩＣ	AND	03
		IG111900	IC	TC40H138P	ＩＣ	DEC DEMP	04
*		IR001410	IC	HD74HC14P	ＩＣ	INV	
		IR003250	IC	SN74HC32N	ＩＣ	OR	03
		IR007450	IC	SN74HC74N	ＩＣ	DFF	04
		IR012550	IC	SN74HC125N	ＩＣ	3S-BUFF	03
		XM717A00	IC	RE5VA45CA-TZ	ＩＣ	RESET IC	03
*		XM722A00	IC	74AC11004	ＩＣ	INV	02
*		XM723A00	IC	74AC11000	ＩＣ	NAND	02
		XM724A00	IC	74AC11138	ＩＣ	DEC DEMP	02
*		XM966A00	IC	HD74UH4066	ＩＣ	ANALOG SW	02
		XB920A00	IC	MSM82C55A-2RS	ＩＣ	I/O	06
		XI939A00	IC	HD63266F	ＩＣ	FDC	09
		XJ797A00	IC	HD6415108F10	ＩＣ	CPU	09
*		XM744A00	IC	HD64180ZRP10	ＩＣ	CPU(Z80)	09
*		XL978A00	IC	TC51832APL-10	ＩＣ	PS RAM 256K	08
		XM605A00	IC	CAT548128L-10RS	ＩＣ	PS RAM 1M	12
*		XM984B00	IC	HN624017PZ11	ＩＣ	16M ROM(WAVE)	
*		XN303A00	IC		ＩＣ	16M ROM(STYLE)	
*		XM985C00	IC		ＩＣ	4M ROM(PROGRAM	
*		XM986C00	IC		ＩＣ	1M ROM	
		XE449A00	IC	YM3413	ＩＣ	LDSP	11
		XJ427A00	IC	YMW258-F	ＩＣ	GEW8	09
		XM145A00	IC	UPD63200GS	ＩＣ	DAC	07
*		XM972A00	IC	TC518128APL80LV	ＩＣ	PS RAM 1M	13
		--	CONNECTOR	52147-15P TE	コネクタ	(VF66760)	
		VF728300	CONNECTOR	52147-6P TE	コネクタ		01
		--	WIRE TRAP	52147-3P TE	ワイヤートラップ	(VK02470)	
		--	WIRE TRAP	52147-8P TE	ワイヤートラップ	(VK02520)	
		--	WIRE TRAP	52147-9P TE	ワイヤートラップ	(VK02530)	
		--	CONNECTOR	52045-24P TE	コネクタ	(VP12770)	
		--	CONNECTOR	52045-30P TE	ＦＦＣコネクター	(VP32720)	
		VP682200	CONNECTOR	52045-8P TE	ＦＦＣコネクター		01
		--	CONNECTOR	52045-36P TE	ＦＦＣコネクター	(VQ04850)	
		--	CONNECTOR	52233-16P TE	ＦＦＣコネクター	(VQ67070)	

*New Parts（新規部品）

ランク:Japan only

	Ref.	Part No.	Description		部品名	Remarks	ランク
		VJ532800	IC SOCKET	DICF-32CS-E	ＩＣソケット	1pc.	02
		VK863100	IC SOCKET	DICF-42CS-E	ＩＣソケット	3pcs	03
		VQ395400	EMI FILTER	EXC-ECT221	ＬＣフィルターＥＭＩ	U,E,C only	01
*		VQ666000	QUARTZ CRYSTAL UNIT	18.8M AT-49	水晶振動子		03
		VJ337900	CERAMIC RESONATOR	CST10.0MTW	セラミック振動子	10.0MHz	02
		VJ338400	CERAMIC RESONATOR	500K CSU500P	セラミック振動子		02
		VK966200	CERAMIC RESONATOR	CST16.00MXW0	セラミック振動子	16.0MHz	02
		VH480900	TRANSISTOR ARRAY	AN90B22	トランジスタアレイ		02
		VJ337600	DIGITAL TRANSISTOR	DTB123ES TP	デジタルトランジスタ		01
		VL448600	JUMPER WIRE	0.6	ジャンパー線	U,E,C only	
*		NX006500	CIRCUIT BOARD	PNL	ＰＮＬシート		
		VQ371700	TACT SWITCH	SKHVBL042A H=7	タクトスイッチ		01
		--	CONNECTOR	FJ-10P	ＦＪショートプラグ	(VL54870)	
		--	CONNECTOR	FJ-12P	ＦＪショートプラグ	(VL54890)	
		--	CONNECTOR HOUSING	04P-FJ 4P	コネクタハウジング	(VQ65670)	
		--	CABLE HOLDER	51048-8P TE	ケーブルホルダー	(VI87860)	
		--	CONNECTOR	52044-36P SE	ＦＦＣコネクター	(VQ04650)	
		VB941200	DIODE	1SS133,1SS176	ダイオード		01
		VJ348700	LED	SLN-210VCT12 RE	ＬＥＤ		01
		VP218300	LED	SLN-210MTT12 GR	ＬＥＤ	EDIT 4pcs	01
		VA078900	JUMPER WIRE	0.55	ジャンパー線		
		--	FRAT CABLE	8P L=130	ケーブル	(VR07060)	
*		NX006510	CIRCUIT BOARD	RV +CABLE(3P)	ＲＶシート　束線付き		
		VQ371700	TACT SWITCH	SKHVBL042A H=7	タクトスイッチ		01
		VQ371800	ROTARY ENCODER	EVQ WP5 F15 24B	１６形エンコーダ		04
		--	FRAT CABLE	3P L=80	ケーブル	(VQ65520)	
		--	CABLE HOLDER	51048-3P TE	ケーブルホルダー	(VI87810)	
		VK217100	CONNECTOR	FJ- 8P	ＦＪ－リセプタクル		01
		VJ348700	LED	SLN-210VCT12 RE	ＬＥＤ		01
*		NX006520	CIRCUIT BOARD	PA +CABLE(2P)	ＰＡシート　束線付き		
		--	CABLE HOLDER	51048-2P TE	ケーブルホルダー	(VI87800)	
		--	WIRES	2P L=100	ケーブル	(VQ65500)	
		VQ371700	TACT SWITCH	SKHVBL042A H=7	タクトスイッチ		01
		--	CONNECTOR	04R-FJ 4P TE	ＦＪコネクタ	(VQ65600)	
*		NX006530	CIRCUIT BOARD	MS	ＭＳシート		
		VQ320400	TACT SWITCH	SKHBE091A	タクトスイッチ		01
*		NX006540	CIRCUIT BOARD	BT +CABLE(2P)	ＢＴシート　束線付き		
*		VQ598800	SPRING TERMINAL	A	電池バネA		04
		--	WIRES	2P L=250	ケーブル	(VR12840)	
		VA078900	JUMPER WIRE	0.55	ジャンパー線		
*		NX006550	CIRCUIT BOARD	PNR	ＰＮＲシート		
		VQ371700	TACT SWITCH	SKHVBL042A H=7	タクトスイッチ		01
		--	CONNECTOR	FJ- 8P	ＦＪ－Ｌ　プラグ	(VK21630)	
		VK217300	CONNECTOR	FJ-10P	ＦＪ－リセプタクル		01
		VK217500	CONNECTOR	FJ-12P	ＦＪ－リセプタクル		02
		--	CABLE HOLDER	51048-3P TE	ケーブルホルダー	(VI87810)	
		--	CABLE HOLDER	51048-8P TE	ケーブルホルダー	(VI87860)	
		VD631600	DIODE	1SS133,176,	ダイオード	HSS104	01
		VJ348700	LED	SLN-210VCT12 RE	ＬＥＤ		01
		VP218300	LED	SLN-210MTT12 GR	ＬＥＤ	-6~-36 6pcs	01
		VA078900	JUMPER WIRE	0.55	ジャンパー線		
		--	FRAT CABLE	8P L=250	ケーブル	(VQ66730)	
*		NX006560	CIRCUIT BOARD	SV +CABLE(3P)	ＳＶシート　束線付き		
*		VQ655700	VARIABLE RESISTOR	B10K RK11K1130	ロータリーＶＲ		02
		--	CABLE HOLDER	51048-3P TE	ケーブルホルダー	(VI87810)	
		--	FRAT CABLE	3P L=80	ケーブル	(VQ65520)	
*		NX006570	CIRCUIT BOARD	AM	ＡＭシート		
		EP600250	BIND HEAD TAPPING SCREW-B	3.0X8 ZMC2Y	＋バインドＢタイト	9pcs	01
		VE326000	MONOLITHIC MYLAR CAP.	0.10 50V J	積層マイラーコン		01
		UA654270	MYLAR CAP.	0.027 50V J	マイラーコン		01
		UA654470	MYLAR CAP.	0.047 50V J	マイラーコン		01
		VD829400	CERAMIC CAP.-F	0.1U 25V Z	円筒セラ（Ｆ）		01

*New Parts（新規部品）

ランク:Japan only

	Ref.	Part No.	Description		部品名	Remarks	ランク
		VD840600	CERAMIC CAP.-SL	27P 50V J	円筒セラ（ＳＬ）		01
*		VD841200	CERAMIC CAP.-B	82P 50V K	円筒セラ（Ｂ）		01
		VD841900	CERAMIC CAP.-B	270P 50V K	円筒セラ（Ｂ）		01
*		VD842200	CERAMIC CAP.-B	470P 50V K	円筒セラ（Ｂ）		01
*		VD842400	CERAMIC CAP.-B	680P 50V K	円筒セラ（Ｂ）		01
*		VD842500	CERAMIC CAP.-B	820P 50V K	円筒セラ（Ｂ）		01
*		VD842600	CERAMIC CAP.-B	1000P 50V K	円筒セラ（Ｂ）		01
*		VD843500	CERAMIC CAP.-X	5600P 16V N	円筒セラ（Ｘ）		01
		VD843800	CERAMIC CAP.-Y	10000P 16V N	円筒セラ（Ｙ）		01
		VK392400	CERAMIC CAP.-F	47000P 16V Z	円筒セラ（Ｆ）		01
		UK567100	ELECTROLYTIC CAP.-BP	10.00 50.0V	ＢＰケミコン		01
		UK866100	ELECTROLYTIC CAP.-BP	1.00 50.0V	ＢＰケミコン		01
		UK866220	ELECTROLYTIC CAP.-BP	2.20 50.0V	ＢＰケミコン		01
*	⚠	VR128600	ELECTROLYTIC CAP.	10000 25.0V	ケミコン		01
		VC694800	SEMICONDUCTIVE CERA. CAP.	0.1000 25V Z	半導体セラコン		01
		VB389800	BASE POST CONNECTOR	PH-2P TE	コネクタベースポスト		01
		LB201530	FUSE HOLDER	PC-FH1	ヒューズホルダ		01
		--	HEAT SINK		放熱板	(VQ45630)	
		--	VIBRATION-PROOF TAPE	3.5X35X0.5	防振テープ	(VM92820)	
		VA078900	JUMPER WIRE	0.55	ジャンパー線		
*	⚠	VR145300	DIODE	30D2-FC6	ダイオード		01
	⚠	VB481900	DIODE	11ES4	ダイオード		01
		VB941200	DIODE	1SS133,1SS176	ダイオード		01
	⚠	KB003640	FUSE	6.00A JU 125V	ヒューズ		01
*	⚠	KB003350	FUSE	T 5.00A A 250V	ヒューズ		
		LB101870	PHONE JACK	YKB21-5006	ホーンジャック	HEADPHONES	03
		VB312600	PHONE JACK	YKB21-5012	ホーンジャック（黒）	AUX OUT R,SAMPL	02
		VC687500	PHONE JACK	YKB21-5014	ホーンジャック（黒）	AUX OUT L+R/L	01
		VM576000	PHONE JACK	YKB21-5074	ホーンジャック（黒）	PEDAL	02
		VJ107200	DIN JACK	5P YKF51-5050	ＤＩＮジャック	MIDI IN,OUT,THR	01
		LB932030	BASE POST CONNECTOR	VH-3P TE	ベースポスト		01
		--	CABLE HOLDER	51048-15P TE	ケーブルホルダー	(VI87930)	
		--	CABLE HOLDER	51048-9P TE	ケーブルホルダー	(VI87870)	
		--	WIRE TRAP	52147-2P TE	ワイヤートラップ	(VK02460)	
		--	CABLE HOLDER	51048-3P TE	ケーブルホルダー	(VI87810)	
		VB835000	COIL	FL5R200QNT	コイル	20uH	01
*	⚠	XN320A00	IC	AN7709F	ＩＣ	REGULATOR +9V	02
	⚠	XJ607A00	IC	NJM7805FA	ＩＣ	REGULATOR +5V	02
		XC520A00	IC	UPC4570C	ＩＣ	OP AMP	01
		IG120700	IC	M5222L	ＩＣ	VCA	04
	⚠	XM593A00	IC	LA4705 15W BTL	ＩＣ	POWER AMP	06
		VG181900	PHOTO COUPLER	PC-900V	フォトカプラ		03
*	⚠	XM993A00	IC	S-81250PG-T	ＩＣ	REGULATOR +5V	02
*	⚠	VQ856200	LINE FILTER	UF1922S-200Y2R0	ラインフィルター		04
		IC174070	TRANSISTOR	2SC1740S R,S	トランジスタ		01
	⚠	VC614000	TRANSISTOR	2SB1274 R,S	トランジスタ		02
		--	CONNECTOR ASSEMBLY	AM-DM1	ＡＭ－ＤＭ束線 1	(VQ66970)	
		--	CONNECTOR ASSEMBLY	AM-DM2 9P L=159	ＡＭ－ＤＭ束線 2	(VR06220)	
*		NX006580	CIRCUIT BOARD	PSW +CABLE(2P)	ＰＳＷｼｰﾄ 束線付き		
	⚠	VQ670600	PUSH SWITCH	SDDLB1 J,UC,CEE	プッシュスイッチ	POWER	03
		--	CONNECTOR ASSEMBLY	POWER SWITCH 2P	Ｐ．ＳＷ束線	(VR12870)	
*		NX006590	CIRCUIT BOARD	MVR +CABLE(3P)	ＭＶＲｼｰﾄ 束線付き		
*		VQ670500	ROTARY POT.	B10K RK11K1130	ロータリーボリューム	MASTER VOLUME	02
		--	CONNECTOR ASSEMBLY	VR 3P L=379	ＶＲ束線	(VR14010)	
*		VQ590700	CIRCUIT BOARD	SA	ＳＡシート	J,B,A	
*		VR244300	CIRCUIT BOARD	SA	ＳＡシート	U,E,C	
		UA654120	MYLAR CAP.	0.0120 50V J	マイラーコン		01
		UA654150	MYLAR CAP.	0.0150 50V J	マイラーコン		01
		UA654180	MYLAR CAP.	0.0180 50V J	マイラーコン		01
		UA654270	MYLAR CAP.	0.0270 50V J	マイラーコン		01
*		VD840700	CERAMIC CAP.-SL	33P 50V J	円筒セラ（ＳＬ）		01
*		VD841400	CERAMIC CAP.-B	120P 50V K	円筒セラ（Ｂ）		01
*		VD841500	CERAMIC CAP.-B	150P 50V K	円筒セラ（Ｂ）		01
*		VD841800	CERAMIC CAP.-B	220P 50V K	円筒セラ（Ｂ）		01
		VK392400	CERAMIC CAP.-F	47000P 16V Z	円筒セラ（Ｆ）		01
*		FZ004090	ELECTROLYTIC CAP.-BP	1.00 50.0V	ＢＰケミコン		01
*		FZ006720	ELECTROLYTIC CAP.-BP	4.70 25.0V	ＢＰケミコン		01

*New Parts（新規部品）

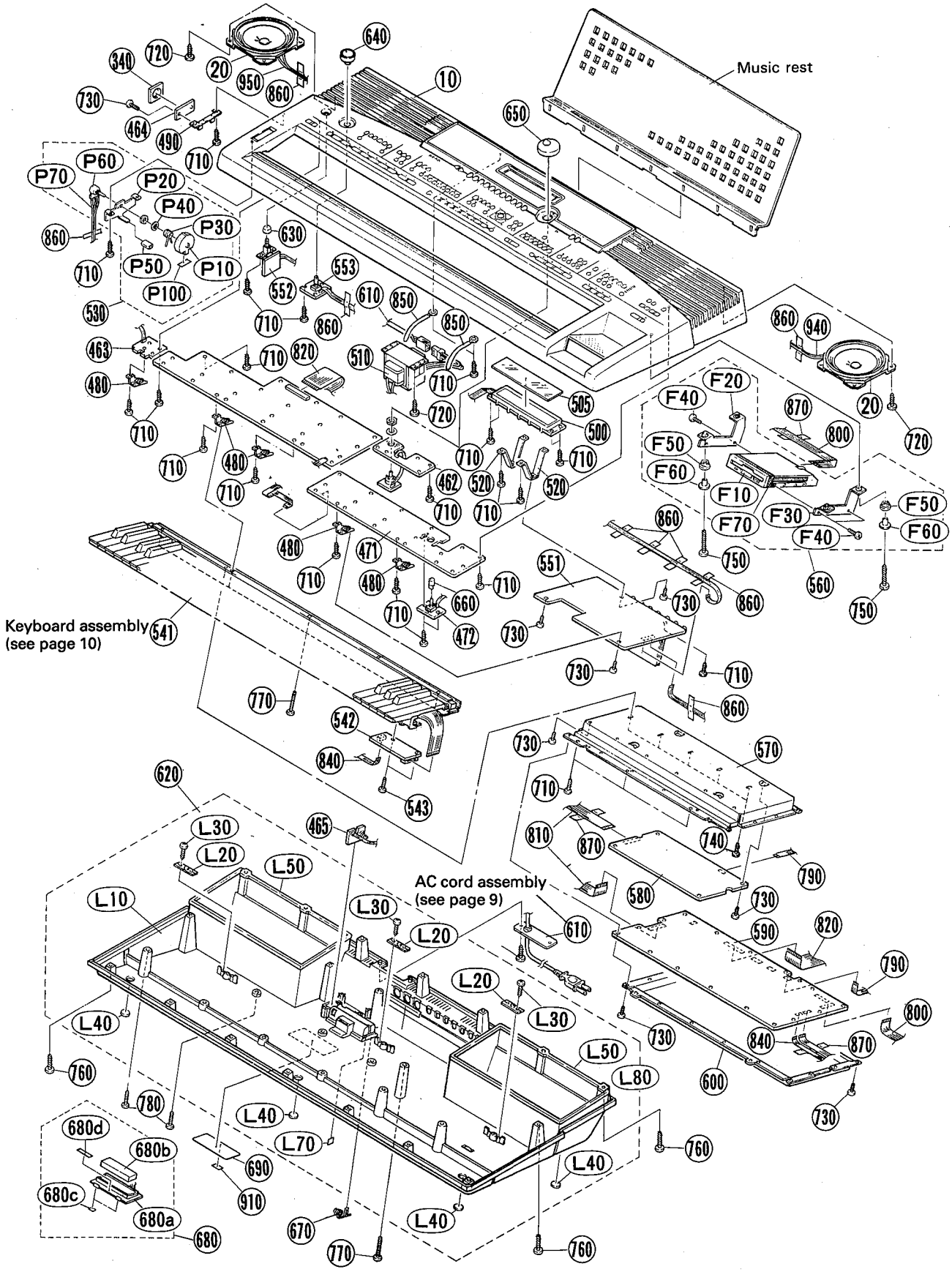
ランク:Japan only

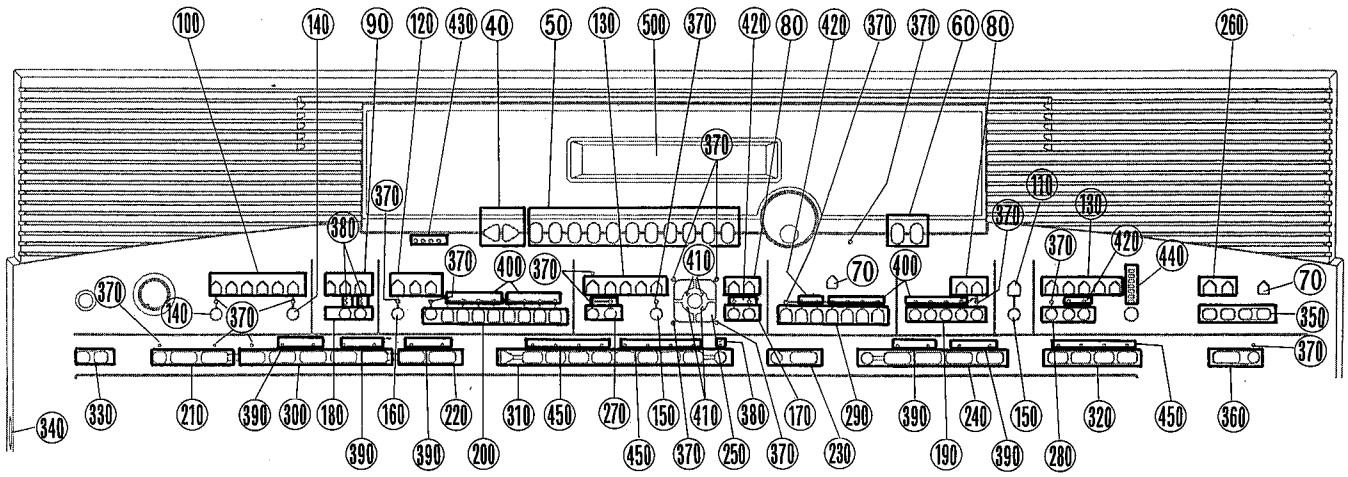
	Ref.	Part No.	Description		部品名	Remarks	ランク
*		VQ883500	ELECTROLYTIC CAP.-BP	3.3 35.0V	ＢＰケミコン		
		XC520A00	IC	UPC4570C	ＩＣ	OP AMP	01
*		XH215A00	IC	NJM3404AD	ＩＣ	OP AMP	
*		XM987A00	IC	M5282FP	ＩＣ	VCA	
		XL559A00	IC	AN8005	ＩＣ	REGULATOR +5V	03
		IR000450	IC	SN74HC04N	ＩＣ	INV	03
		IR406600	IC	TC74HC4066AP	ＩＣ	ANALOG SW	03
*		XM789A00	IC	HG62E08R71P	ＩＣ	GATE ARRAY	
*		XM990A00	IC	HM658512LP-8V	ＩＣ	4M PSRAM	
		XJ427A00	IC	YMW258-F	ＩＣ	GEW8	09
		XM145A00	IC	UPD63200GS	ＩＣ	DAC	07
*		XM988A00	IC	LC78865M	ＩＣ	ADC	
		VP682300	CONNECTOR	52045-8P SE	ＦＦＣコネクター		01
		--	CONNECTOR	52044-30P SE	ＦＦＣコネクター	(VQ04590)	
*		VQ673900	LC FILTER	TFB-3LDG 5KHZ	ＬＣフィルター		
*		VQ674000	LC FILTER	TFB-3LDG 10KHZ	ＬＣフィルター		
*		VR023300	QUARTZ CRYSTAL UNIT	AT49/12.0858MHZ	水晶振動子		
		VB941200	DIODE	1SS133,1SS176	ダイオード		01
		VA078900	JUMPER WIRE	0.55	ジャンパー線		
		VG436400	ZENER DIODE	MTZJ3.6B	ツェナーダイオード		01
*		VQ654500	CIRCUIT BOARD	MKS	ＭＫＳシート		10
		FG651220	CERAMIC CAP.-SL	22P 50V J	セラコン（ＳＬ）		01
		VK392400	CERAMIC CAP.-F	47000P 16V Z	円筒セラ（Ｆ）		01
		UJ828100	ELECTROLYTIC CAP.	100.00 10.0V	ケミコン		01
		VL409500	COIL	BL03RN2-R62T4	コイル	0.45uH	01
		VL674500	RESISTOR ARRAY	RGLE12X223J	抵抗アレイ		01
*		XN040B00	IC	HD63B05V	ＩＣ	KEY SCANNER CPU	
		VF728300	CONNECTOR	52147-6P TE	コネクタ		01
		--	CONNECTOR	52044-23P SE	ＦＦＣコネクター	(VQ04530)	
		VA078900	JUMPER WIRE	0.55	ジャンパー線		
	CR1	VN002100	CERAMIC RESONATOR	CST8.00MTW140	セラミック振動子		02
	CR1	VQ305550	CERAMIC RESONATOR	EF0EC8004T3	セラミック振動子	8.00MHz	02
		XM795A00	SPEAKER	12.0cm 4ohm 6W	スピーカ	2pcs	07
		VM488300	FLOPPY DISK DRIVE	EME-213YV 3.5"	３．５”ＦＤＤ		21
*	⚠	XM945B00	POWER TRANSFORMER		電源トランス		11

*New Parts（新規部品）

ランク:Japan only

■ OVERALL ASSEMBLY





● LOWER CASE ASSEMBLY

	Ref.	Part No.	Description		部品名	Remarks	ランク
*		VQ597800	<LOWER CASE ASSEMBLY>		<下ケースＡｓｓｙ>	PSR2700	16
	L10	--	LOWER CASE		下ケース成形品	(VQ47470)	
	L20	AA056250	HOLDER, LEG		脚取り付け金具	3pcs	01
	L30	EP600280	BIND HEAD TAPPING SCREW-P	3.0X8 ZMC2Y	+バインドＰタイト	6pcs	01
	L40	CB043750	FOOT	BL	ゴム足	5pcs	01
	L50	--	SPACER TAPE	A	スペーサテープＡ	2pcs (VQ59850)	
	L60	--	VIBRATION-PROOF TAPE	100X10X0.5	防振テープ	1pc. (VR16380)	
	L70	--	VIBRATION-PROOF TAPE	15X10X0.5	防振テープ	1pc. (VR16430)	
	L80	--	SPACER TAPE	B	スペーサテープＢ	2pcs (VQ59850)	

*New Parts (新規部品)　　ランク:Japan only

● FDD ASSEMBLY

	Ref.	Part No.	Description		部品名	Remarks	ランク
		--	<FDD ASSEMBLY>		<ＦＤＤ　Ａｓｓｙ>	PSR2700(VQ59860	
	10	VM488300	FLOPPY DISK DRIVE	EME-213YV 3.5"	3．5" ＦＤＤ		21
*	20	VQ489400	HOLDER, FDD	L	ＦＤＤ金具　Ｌ	1pc.	04
*	30	VQ489500	HOLDER, FDD	R	ＦＤＤ金具　Ｒ	1pc.	04
	40	EJ030056	PAN HEAD SCREW	3.0X5 ZMC2Y	+ナベ小ネジ	4pcs (0375111)	01
	50	VA121600	RUBBER BUSHING		ゴムブッシュ	4pcs	01
	60	VK431100	FDD SPACER		ＦＤＤスペーサー	4pcs	01
	70	--	ADHESIVE TAPE	ECT #590S W=15	綿粘着テープ	(ZL35000)	01

*New Parts (新規部品)　　ランク:Japan only

CX816120　ドライブベルト

● PITCH BEND CONTROL ASSEMBLY

Ref.	Part No.	Description		部品名	Remarks	ランク
	--	<PITCH BEND ASSEMBLY>		<ピッチベンドAssy>	PSR2700(VQ59870	
P10	VL398300	WHEEL	D50	ホイール		03
P20	VL398400	ANGLE BRACKET	D50	ホイール金具		03
P30	VL398500	WHEEL SPRING	D50	ホイールスプリング		03
P40	VL483100	WHEEL RING	10.0	ＣＳ形止め輪		01
P50	--	TUBE	WH	ホイールチューブ	(VL48320)	
P60	VL491200	VARIABLE RESISTOR	B10.0K EWH 9UAF	ロータリーＶＲ		03
P70	--	CONNECTOR ASSEMBLY	PB 280mm	ＰＢ束線	(VQ64060)	
P100	--	VIBRATION-PROOF TAPE	13X19X0.5	防振テープ	(VL99740)	

*New Parts (新規部品)　　ランク:Japan only

• OVERALL ASSEMBLY

	Ref.	Part No.	Description		部品名	Remarks	ランク
			<OVERALL ASSEMBLY>		<総組立>	PSR2700	
*	10	VQ597500	UPPER CASE		上ケース加工品		18
	20	XM795A00	SPEAKER	12.0cm 4ohm 6W	スピーカ	2pcs	07
	40	VQ286000	KEY TOP-A	x2 GY	キートップA	1pc.	03
	50	VQ286100	KEY TOP-B	x11 GY	キートップB	1pc.	05
	60	VQ286200	KEY TOP-C	x2 GY	キートップC	1pc.	03
	70	VQ286300	KEY TOP-D	x1 GY	キートップD	2pcs	03
	80	VQ286400	KEY TOP-E	x2 GY	キートップE	2pcs	03
	90	VQ286500	KEY TOP-F	x3 GY	キートップF	1pc.	03
	100	VQ286700	KEY TOP-H	x6 GY	キートップH	1pc.	03
	110	VQ286800	KEY TOP-I	x1 GY	キートップI	1pc.	03
	120	VQ286900	KEY TOP-J	x3 GY	キートップJ	1pc.	03
	130	VQ287800	KEY TOP-L	x5 GY	キートップL	2pcs	03
	140	VQ287900	KEY TOP-M	x1 VI	キートップM	2pcs	03
	150	VQ288000	KEY TOP-MM	x1 YE	キートップMM	2pcs	03
	160	VQ592000	KEY TOP-MMMM	x1 GR	キートップMMMM	1pc.	03
	170	VQ288100	KEY TOP-N	x2 VI	キートップN	1pc.	03
	180	VQ288300	KEY TOP-O	x3 VI	キートップO	1pc.	03
	190	VQ288400	KEY TOP-P	x5 RE/VI	キートップP	1pc.	03
	200	VQ288600	KEY TOP-R	x9 VI/BE	キートップR	1pc.	03
	210	VQ288700	KEY TOP-S	x3 GY	キートップS	1pc.	04
	220	VQ288900	KEY TOP-U	x2 GY	キートップU	1pc.	03
	230	VQ289200	KEY TOP-W	x2 GY	キートップW	1pc.	03
	240	VQ289300	KEY TOP-X	x5 BE	キートップX	1pc.	03
	250	VQ289400	KEY TOP-Y	x5 GR/VI	キートップY	1pc.	04
*	260	VQ489800	KEY TOP-JJ	x2 GY	キートップJJ	1pc.	03
*	270	VQ489900	KEY TOP-NN	x2 VI	キートップNN	1pc.	03
*	280	VQ490000	KEY TOP-OO	x3 VI/RE	キートップOO	1pc.	03
*	290	VQ490100	KEY TOP-RR	x7 BE	キートップRR	1pc.	03
*	300	VQ490200	KEY TOP-TT	x5 GY	キートップTT	1pc.	04
*	310	VQ490300	KEY TOP-VA	x10 RE/GY	キートップVA	1pc.	05
*	320	VQ490400	KEY TOP-VB	x4 BE	キートップVB	1pc.	04
*	330	VQ490600	KEY TOP-ZB	x2 GY	キートップZB	1pc.	03
*	340	VQ490700	KEY TOP-ZC	x1 GY	キートップZC	1pc.	03
*	350	VQ490800	KEY TOP-ZD	x4 GY	キートップZD	1pc.	03
*	360	VQ599000	KEY TOP-WA	x2 GY	キートップWA	1pc.	03
	370	VQ285400	LENS-A	x1	レンズa 1レン	20pcs	03
	380	VQ285500	LENS-B	x2	レンズb タテ2レン	3pcs	03
	390	VQ285600	LENS-C	x2	レンズc 2レン	5pcs	03
	400	VQ285800	LENS-E	x4	レンズe 4レン	4pcs	03
	410	VQ297900	LENS-H	x1	レンズh サンカク	4pcs	03
*	420	VQ490900	LENS-I	x2	レンズI	3pcs	03
*	430	VQ491000	LENS-K	x4	レンズK	1pc.	03
*	440	VQ491100	LENS-L	x7	レンズL	1pc.	03
*	450	VQ491200	LENS-N	x4	レンズN	3pcs	03
*	461	NX006500	CIRCUIT BOARD	PNL	PNLシート		
*	462	NX006510	CIRCUIT BOARD	RV +CABLE(3P)	RVシート 束線付き		
*	463	NX006520	CIRCUIT BOARD	PA +CABLE(2P)	PAシート 束線付き		
*	464	NX006530	CIRCUIT BOARD	MS	MSシート		
*	465	NX006540	CIRCUIT BOARD	BT +CABLE(2P)	BTシート 束線付き		
*	471	NX006550	CIRCUIT BOARD	PNR	PNRシート		
*	472	NX006560	CIRCUIT BOARD	SV +CABLE(3P)	SVシート 束線付き		
*	480	VQ489600	HOLDER, MK		MK支持金具	5pcs	03
*	490	VQ489700	HOLDER, MODULATION		モジュレーション取付金具	1pc.	03
*	500	VQ518100	LCD	24X2	液晶ディスプレイ		18
*	505	VQ926200	LCD COVER		液晶保護板	(Ref=930)	
⚠ *	510	XM945B00	POWER TRANSFORMER		電源トランス		11
*	520	VQ489000	HOLDER, AM		AM支持金具	2pcs	04
	530	--	PITCH BEND CONTROL ASS'Y		ピッチベンドAssy	(VQ59870)	
*	541	VQ903500	KEYBOARD ASSEMBLY	C61 K6	16F鍵盤Assy		
*	542	VQ654500	CIRCUIT BOARD	MKS	MKSシート		10
	543	EP600410	BIND HEAD TAPPING SCREW-S	3.0X6 ZMC2Y	+バインドSタイト	2pcs	01
*	551	NX006570	CIRCUIT BOARD	AM	AMシート		
*	552	NX006580	CIRCUIT BOARD	PSW +CABLE(2P)	PSWシート 束線付き		
*	553	NX006590	CIRCUIT BOARD	MVR +CABLE(3P)	MVRシート 束線付き		
	560	--	FDD ASSEMBLY		FDD Assy	(VQ59860)	
*	570	VQ489300	SHIELD BOX	UPPER	シールドボックス 上		08
*	580	VQ590700	CIRCUIT BOARD	SA	SAシート	J,B,A	
*	580	VR244300	CIRCUIT BOARD	SA	SAシート	U,E,C	
*	590	VQ470600	CIRCUIT BOARD	DM	DMシート	J,B,A	

*New Parts (新規部品)

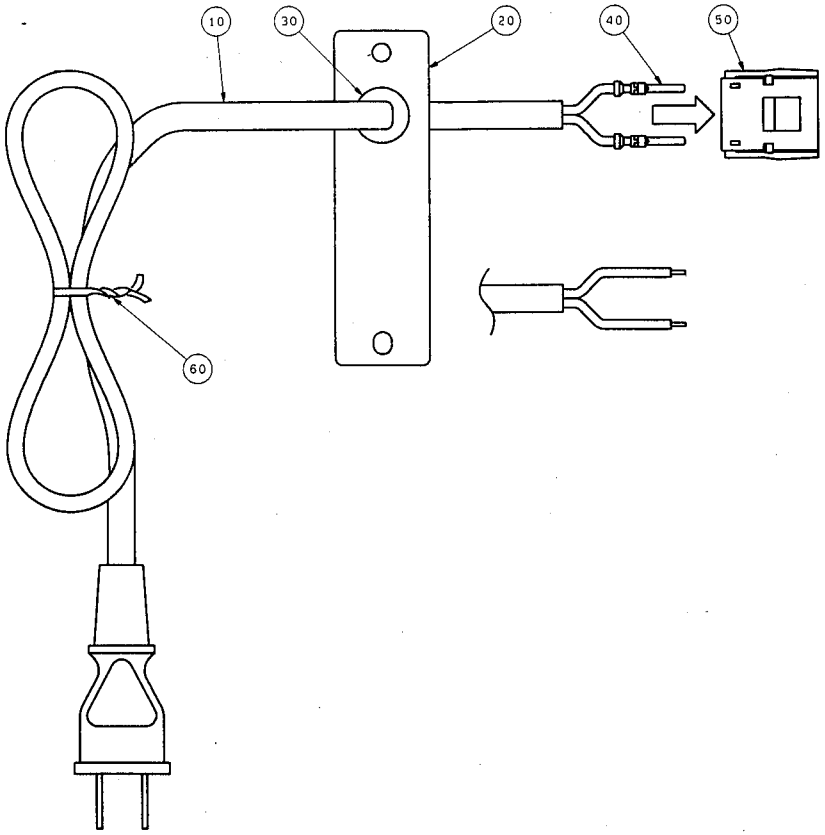
ランク:Japan only

	Ref.	Part No.	Description		部品名	Remarks	ランク
*	590	VQ470500	CIRCUIT BOARD	DM	ＤＭシート	U,E,C	
*	600	VQ489200	SHIELD BOX	LOWER	シールドボックス　下		07
*	610	VQ651500	AC CORD ASSEMBLY		電源コードＡｓｓｙ	J	09
*	610	VQ651600	AC CORD ASSEMBLY		電源コードＡｓｓｙ	U	09
*	610	VQ651700	AC CORD ASSEMBLY		電源コードＡｓｓｙ	E	09
*	610	VQ651800	AC CORD ASSEMBLY		電源コードＡｓｓｙ	B	11
*	610	VQ651900	AC CORD ASSEMBLY		電源コードＡｓｓｙ	A	10
*	610	VQ675400	AC CORD ASSEMBLY		電源コードＡｓｓｙ	C	09
*	620	VQ597800	LOWER CASE ASSEMBLY		下ケースＡｓｓｙ	1pc.	16
	630	VQ218800	KNOB		プッシュツマミ	POWER	03
	640	VQ218900	KNOB	V	Ｖ－ツマミ	NASTER VOLUME	03
	650	VL921100	ENCODER KNOB	BL	エンコーダーツマミ	1pc.	03
	660	VM825600	INPUT KONB		インプットツマミＢ	INPUT LEVEL	03
*	670	VQ598900	SPRING TERMINAL	B	電池バネＢ	1pc.	03
	680	VJ601000	BATTERY COVER ASSEMBLY	BL	バッテリーカバーAssy		06
	680a	CB047850	BATTERY COVER	BL	バッテリーカバー		02
	680b	CB047750	BATTERY CUSHION	GY	バッテリークッション	1pc.	01
	680c	--	VIBRATION-PROOF PAD	BL	防振パット	2pcs (CA01485)	
	680d	--	VIBRATION-PROOF TAPE	6X25X0.3	防振テープ	3pcs (VJ56490)	
	690	--	NAME PLATE		銘板	J (VQ64180)	
	690	--	NAME PLATE		銘板	J (VR62970)	
	690	--	NAME PLATE		銘板	U (VQ64190)	
	690	--	NAME PLATE		銘板	E (VQ64200)	
	690	--	NAME PLATE		銘板	B,A (VQ64210)	
	690	--	NAME PLATE		銘板	C (VQ67630)	
	710	EP600280	BIND HEAD TAPPING SCREW-P	3.0X8 ZMC2Y	＋バインドＰタイト	77pcs	01
	720	EP640240	BIND HEAD TAPPING SCREW-P	4.0X8 FCM3BL	＋バインドＰタイト	16pcs	01
	730	EP600410	BIND HEAD TAPPING SCREW-S	3.0X6 ZMC2Y	＋バインドＳタイト	31pcs	01
	740	EP620100	BIND HEAD TAPPING SCREW-P	2.6X8 ZMC2Y	＋バインドＰタイト	5pcs	01
	750	VM839600	BIND HEAD TAPPING SCREW-P	4.0X16 ZMC2Y	＋バインドＰタイト	4pcs	01
	760	VA847600	BIND HEAD TAPPING SCREW-P	4.0X12 ZMC2BL	＋バインドＰタイト	18pcs	01
*	770	VF347000	BIND HEAD TAPPING SCREW-S	3.0X16 ZMC2Y	＋バインドＳタイト	5pcs	01
	780	EP600530	BIND HEAD TAPPING SCREW-S	3.0X8 ZMC2BL	＋バインドＳタイト	10pcs	01
*	790	VQ666500	FRAT CABLE	8P FFC	ケーブル		01
*	800	VR405300	FRAT CABLE	24P FFC	ケーブル		05
*	810	VQ666700	FRAT CABLE	30P FFC	ケーブル		
*	820	VR405400	FRAT CABLE	36P FFC	ケーブル		04
	840	--	CONNECTOR ASSEMBLY	MK	ＭＫ束線	(VQ66700)	
	850	CB817510	CORD BINDER	S-14B	束線止め	2pcs	01
	860	VA126100	FILAMENT TAPE	12X50	粘着テープ	10pcs	03
	870	--	FILAMENT TAPE	19X70	粘着テープ	3pcs (VF29880)	
	880	--	FILAMENT TAPE	19X90	粘着テープ	2pcs (VA12620)	
	910	--	LABEL	DATE CODE	ラベル	U only (VA03930)	
	940	--	CONNECTOR ASSEMBLY	SP-R	ＳＰ－Ｒ束線	(VQ67030)	
	950	--	CONNECTOR ASSEMBLY	SP-L	ＳＰ－Ｌ束線	(VQ67040)	
			<ACCESSORIES>		＜付属品＞		
	A	VQ284000	MUSIC REST	BL	譜面立て		08
*	B	VQ652400	FLOPPY DISK	3.5 DEMO	フロッピーディスク		05
*	C	VQ931600	FLOPPY DISK	3.5 WAVE	フロッピーディスク		

*New Parts（新規部品）

ランク:Japan only

■AC CORD ASSEMBLY

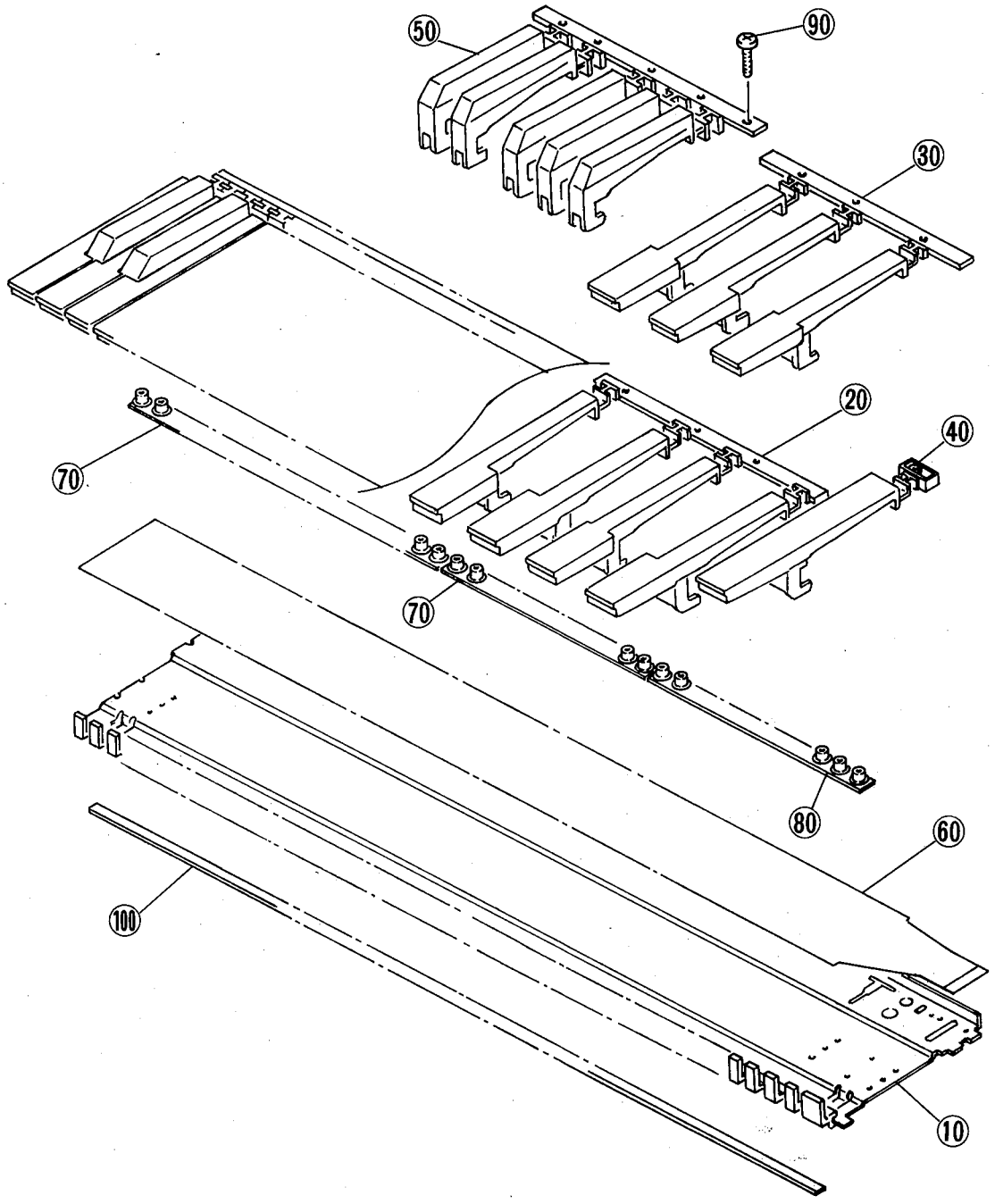


	Ref.	Part No.	Description		部品名	Remarks	ランク
			<AC CORD ASSEMBLY>		＜電源コードAssy＞	PSR2700	
*		VQ651500	AC CORD ASSEMBLY		電源コードＡｓｓｙ	J	09
*		VQ651600	AC CORD ASSEMBLY		電源コードＡｓｓｙ	U	09
*		VQ651700	AC CORD ASSEMBLY		電源コードＡｓｓｙ	E	09
*		VQ651800	AC CORD ASSEMBLY		電源コードＡｓｓｙ	B	11
*		VQ651900	AC CORD ASSEMBLY		電源コードＡｓｓｙ	A	10
*		VQ675400	AC CORD ASSEMBLY		電源コードＡｓｓｙ	C	09
	10	--	AC CORD	7A 2.65m	電源コード	J	
	10	--	AC CORD	10A 2.65m	電源コード	C	
	10	--	AC CORD	10A 2.65m	電源コード	U	
	10	--	AC CORD	7.5A 2.65m	電源コード	A	
	10	--	AC CORD	2.5A 2.65m	電源コード	E	
	10	--	AC CORD	6.0A 2.65m	電源コード	B	
	20	--	PANEL, AC CORD		コードストッパー板	1pc.	
	30	CB032840	CORD STRAIN RELIEF	SR-5N-4	コードストッパー	1pc. J,C,U	01
	30	CB072750	CORD STRAIN RELIEF	SR-4N-4	コードストッパー	1pc. A,E,B	01
	40	--	CONNECTOR PIN	SYM-41T-P0.5	ピンコンタクト	2pcs	
	50	--	CONNECTOR HOUSING	YLR-08V	ハウジング	1pc.	
	60	--	CORD BINDER	L=120	束線止め	1pc. (VB28620)	02

*New Parts（新規部品）

ランク:Japan only

■ KEYBOARD ASSEMBLY



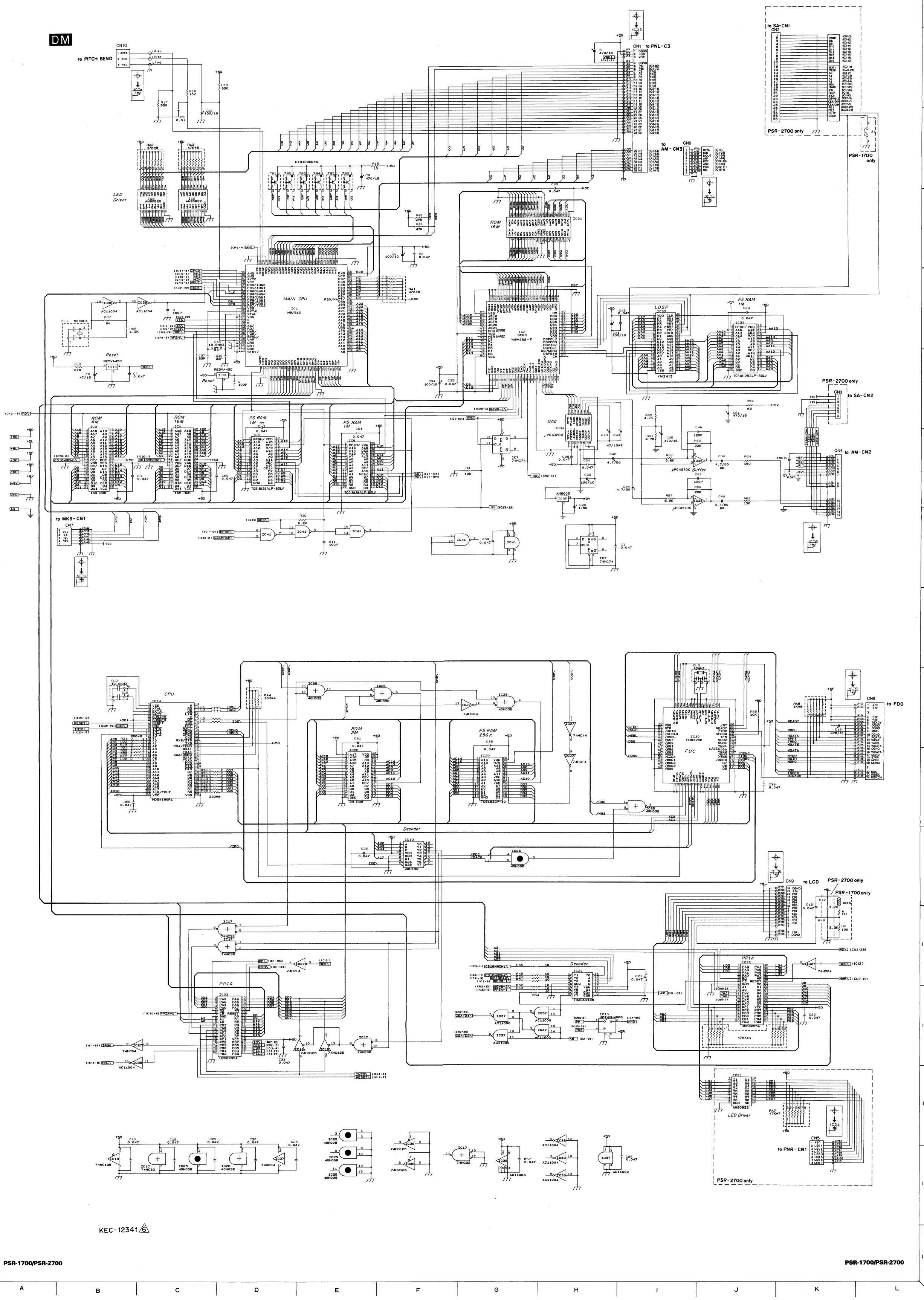
	Ref.	Part No.	Description		部品名	Remarks	ランク
*		VQ903500	<KEYBOARD ASSEMBLY>	C61 K6	＜１６Ｆ鍵盤Assy＞	PSR2700	
	10	--	MK FRAME	BL	ＭＫフレーム	(VQ00020)	
	20	VQ002100	WHITE KEY	CEGB	白鍵ＣＥＧＢ	5pcs	
	30	VQ002200	WHITE KEY	DFA	白鍵ＤＦＡ	5pcs	
	40	VQ002300	WHITE KEY	C'	白鍵Ｃ'	1pc.	03
	50	VQ002400	BLACK KEY	BL	黒鍵	5pcs	05
*	60	VQ855500	CIRCUIT BOARD	2-61	ＭＫシートＵＬ 2-61		10
	70	VQ002800	RUBBER CONTACT	12KEYS	接点ゴム ２Ｍ	4pcs	06
	80	VQ002900	RUBBER CONTACT	13KEYS	接点ゴム ２Ｍ	1pc.	07
	90	VF549100	BIND HEAD TAPPING SCREW-S	3.0X14 ZMC2Y	＋バインドＳタイト	21pcs	
	100	VQ584400	FELT	828X5X1.5 WH	フェルトシロ	1pc.	02

*New Parts（新規部品）

ランク:Japan only

■PSR-1700/PSR-2700 OVERALL CIRCUIT DIAGRAM 1/4 (DM)

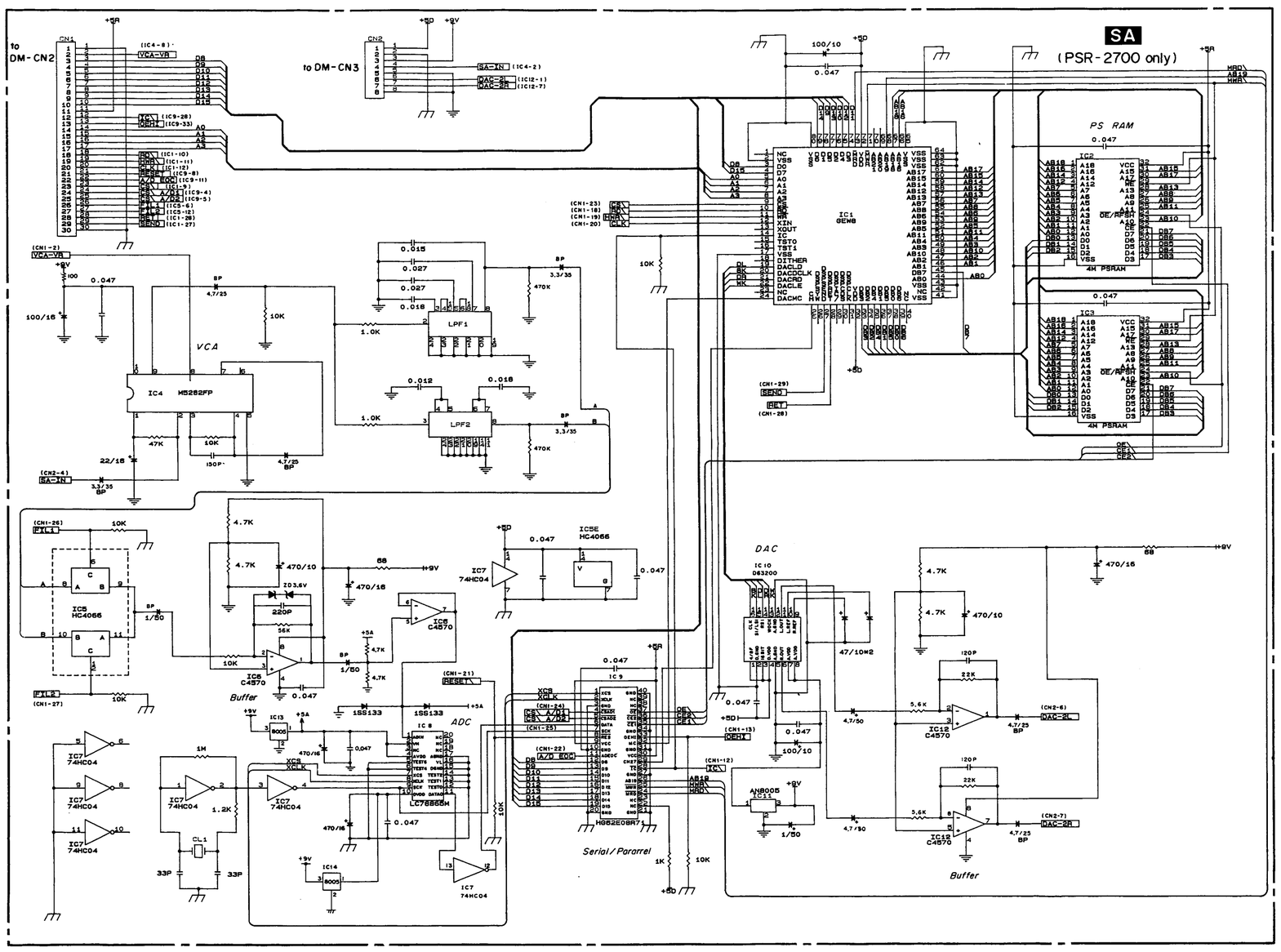
DM

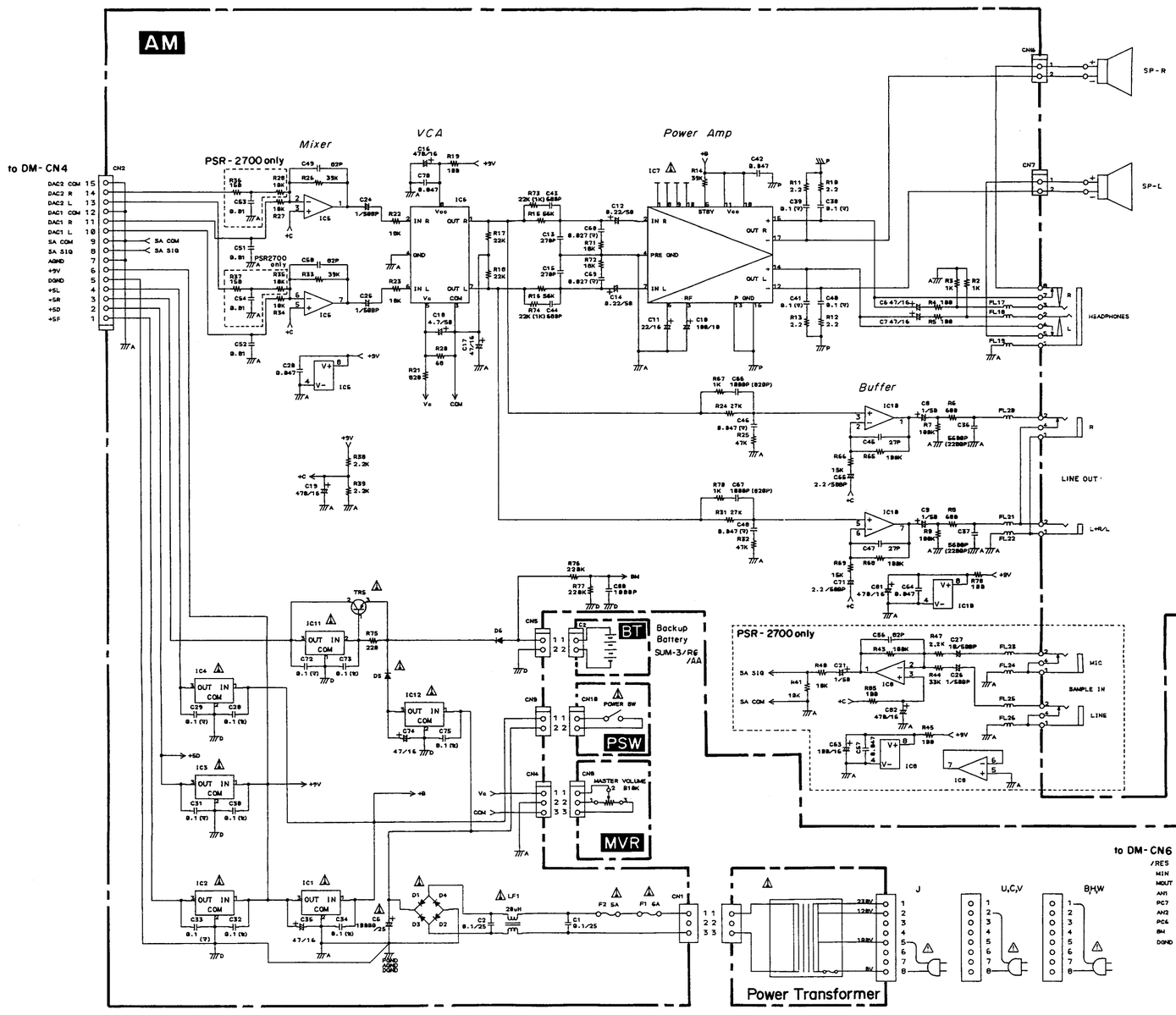


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PSR-1700/PSR-2700

■PSR-1700/PSR-2700 OVERALL CIRCUIT DIAGRAM 2/4 (SA, AM)

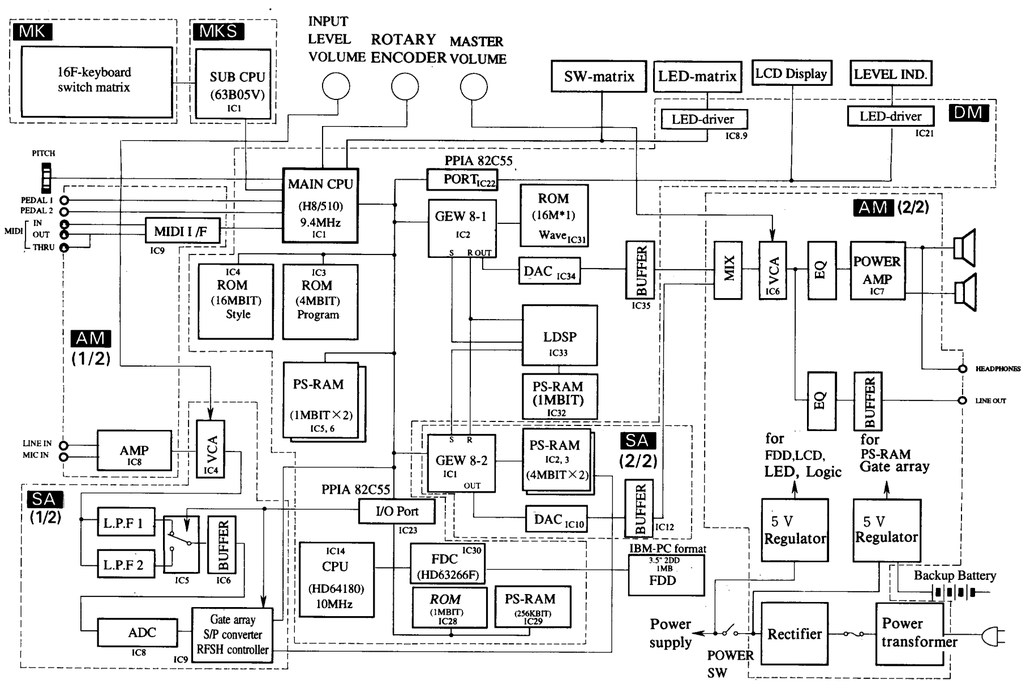




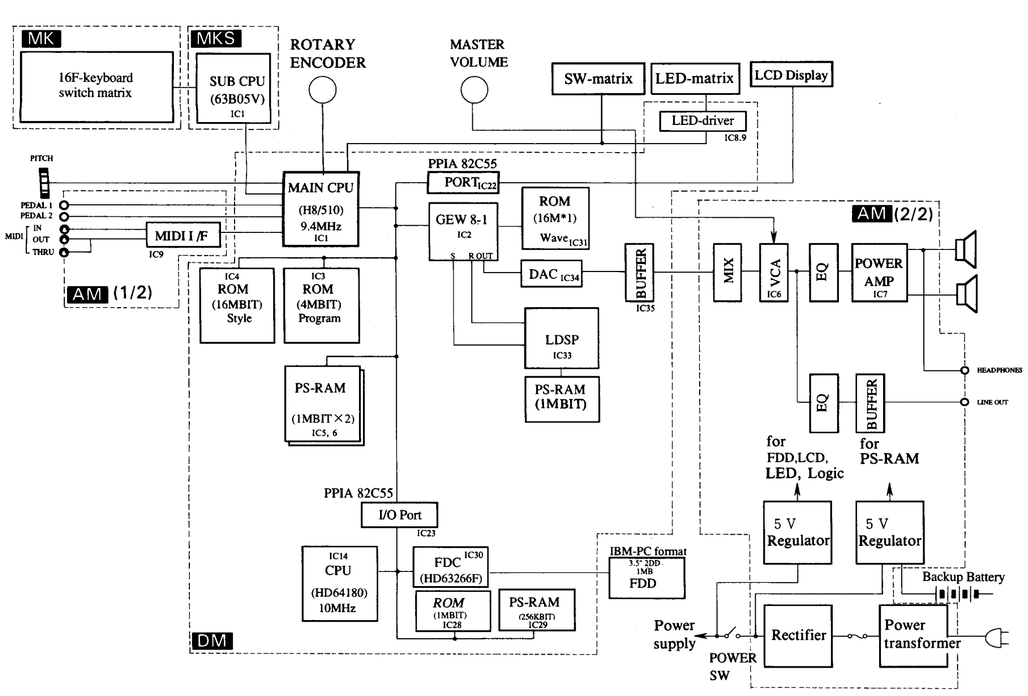
note) Value in brackets of resistor/capacitor are for PSR-1700.

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

■PSR-2700 BLOCK DIAGRAM



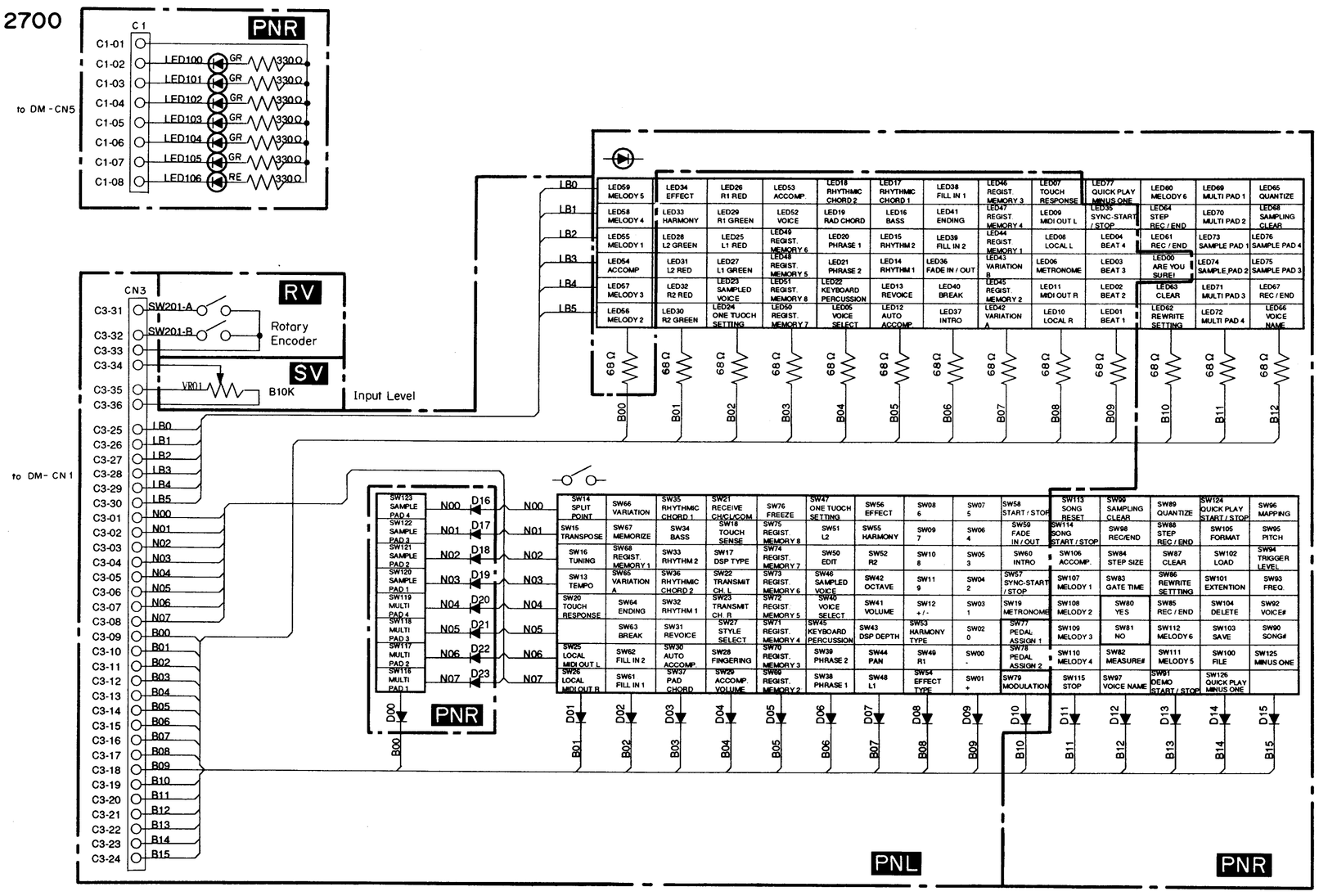
■PSR-1700 BLOCK DIAGRAM



PSR-1700/PSR-2700

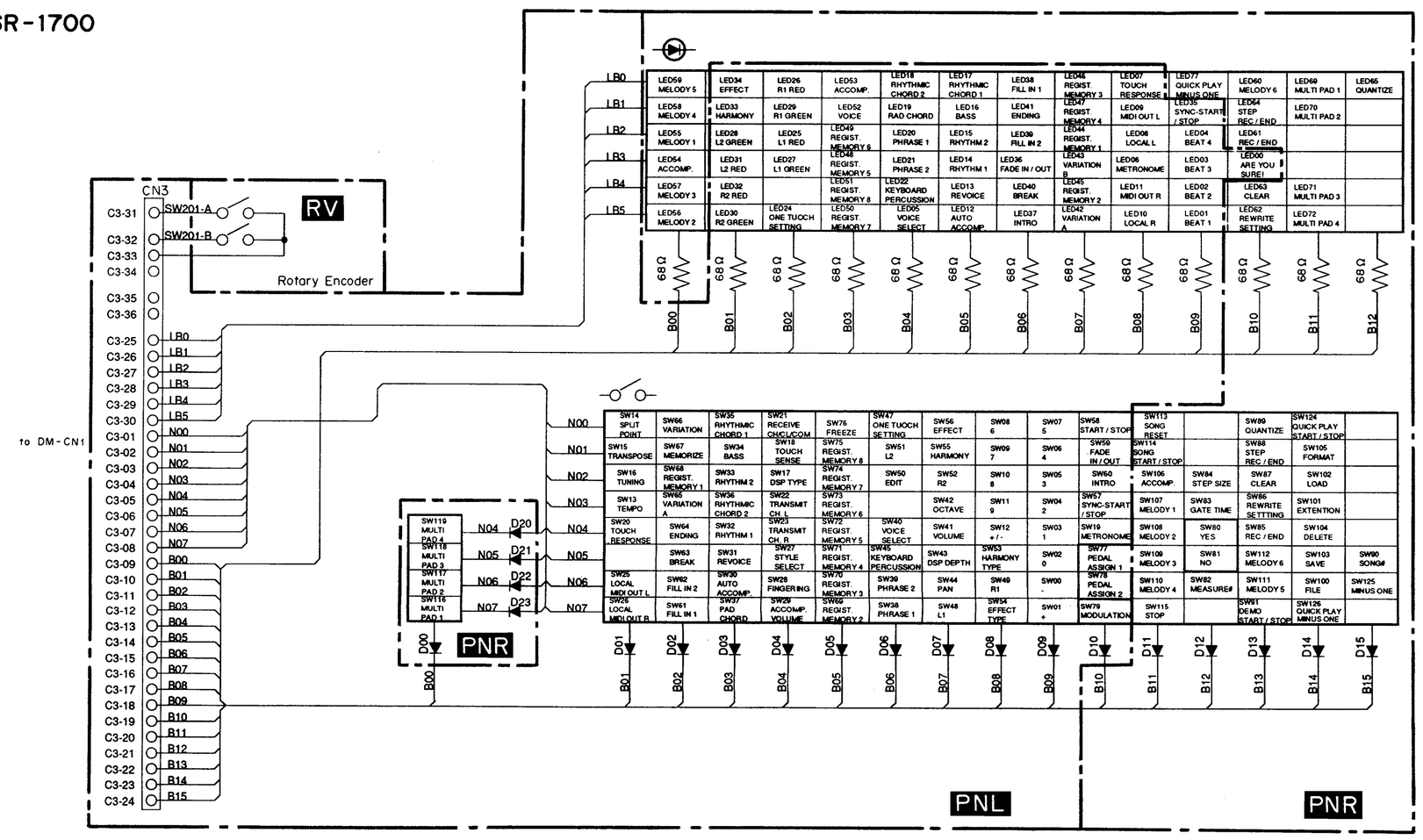
■PSR-1700/PSR-2700 OVERALL CIRCUIT DIAGRAM 3/4 (PNL, PNR, RV, SV, MKS, MK)

•PSR-2700

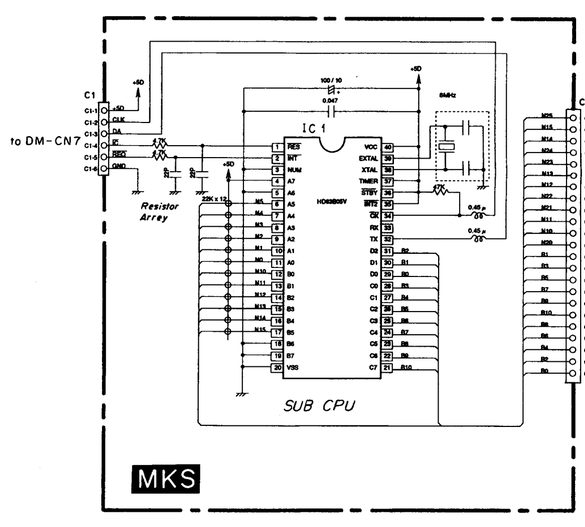


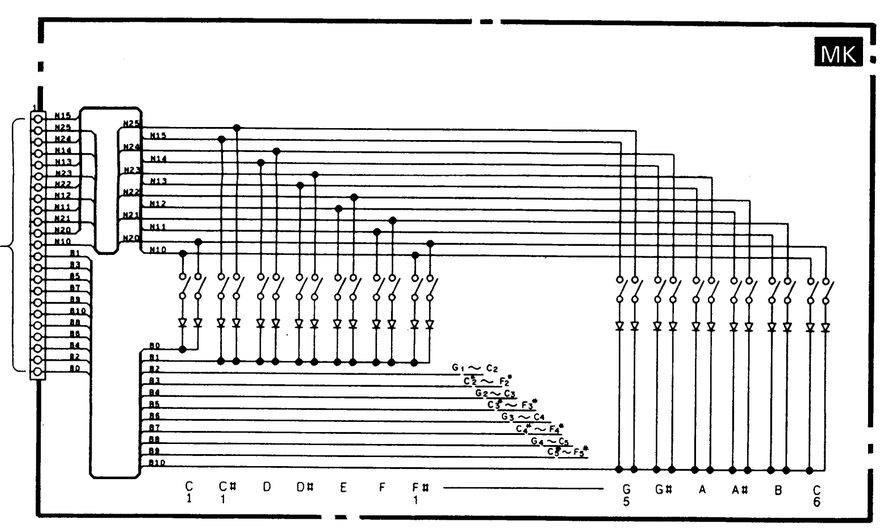
Switches SW77 and SW78 are located on the PA circuit Board.
Switches SW80 and SW81 are located on the RV circuit Board.
Switch SW79 in located on the MS circuit Board.

•PSR-1700



Switches SW77 and SW78 are located on the PA circuit Board.
Switches SW80 and SW81 are located on the RV circuit Board.
Switch SW79 in located on the MS circuit Board.





PSR-1700/PSR-2700

■PSR-1700/PSR-2700 OVERALL CIRCUIT DIAGRAM 4/4

Notes)

Circuit Board :	DM (VQ470800)XN323C0 (J, B, A) PSR-1700
Circuit Board :	DM (VQ470700)XM721C0 (U, E, C) PSR-1700

1. FERRITE BEAD
   - L 1~4: BL02RN1-R62T4 (GE300610)
   - LF 2, 3, 74~77, 102~105, 125, 138, 149: EXC-ELDR35V (VM898600) U, E, C only
2. RESISTOR ARRAY
   - RA 1~3: RGLE8X473J (VF238600)
   - RA 4: RGLE4X103J (VF773500)
   - RA 5: RGLE6X102J (VN927500)
   - RA 6: RGLE11X473J (VQ665000)
3. IC
   - IC 1: HD6415108F10 (XJ797A00) CPU
   - IC 2: YMW258-F (XJ427A00) GEW8
   - IC 3: (XN281C00) 4M ROM(PROGRAM)
   - IC 4: (XN303A00) 16M ROM(STYLE)
   - IC 5, 6: TC518128APL80LV (XM972A00) PS RAM 1M
   - IC 7: SN74HC74N (IR007450) DFF
   - IC10, 13: RE5VA45CA-TZ (XM717A00) RESET IC
   - IC14: HD64180ZRP10 (XM744A00) CPU(Z80)
   - IC15: HD74UH4066 (XM966A00) ANALOG SW
   - IC17: SN74HC32N (IR003250) OR
   - IC18: SN74HC125N (IR012550) 3S-BUFF
   - IC19: TC40H138P (IG111900) DEC DEMP
   - IC20: 74AC11138 (XM724A00) DEC DEMP
   - IC22, 23: MSM82C55A-2RS (XB920A00) I/O
   - IC25: TC40H008P (IG096400) AND
   - IC26: TC40H032P (IG052800) OR
   - IC27: SN74HC14N (IR001410) INV
   - IC28: (XM986C00) 1M ROM
   - IC29: TC51832APL-10 (XL978A00) PS RAM 256K
   - IC30: HD63266F (XI939A00) FDC
   - IC31: HN624017PZ11 (XM984B00) 16M ROM(WAVE)
   - IC32: CAT548128L-10RS (XM605A00) PS RAM 1M
   - IC33: YM3413 (XE449A00) LDSP
   - IC34: µPD63200GS (XM145A00) DAC
   - IC35: µPC4570C (XC520A00) OP AMP
   - IC36: AN8005-(TA) (XL559A00) REGULATOR +5V
   - IC37, 41: 74AC11000 (XM723A00) NAND
   - IC38: 74AC11004 (XM722A00) INV
4. IC SOCKET
   - IC3, 4, 31: DICF-42CS-E (VK863100) 3pcs
   - IC28: DICF-32CS-E (VJ532800) 1pc.
5. CONNECTOR
   - CN 4: 52147-15P TE (VF66760) to AM-CN 2
   - CN 7: 52147-6P TE (VF728300) to MKS-CN 1
6. WIRE TRAP
   - CN 5: 52147-8P TE (VK02520) to PNR-C 1
   - CN 6: 52147-9P TE (VK02530) to AM-CN 3
   - CN10: 52147-3P TE (VK02470) to PITCH BEND
7. CONNECTOR
   - CN 1: 52045-36P TE (VQ04850) to PNL-C 3
   - CN 8: 52045-24P TE (VP12770) to FDD
   - CN 9: 52233-16P TE (VQ67070) to LCD
8. EMI FILTER
   - LF 5~38, 79~101, 106, 109, 111~114, 116, 118~123, 126~137, 141~143, 145, 146, 151: EXC-ECT221 (VQ395400) U, E, C only
9. QUARTZ CRYSTAL UNIT
   - CX 1: 18.8M AT-49 (VQ666000)
10. CERAMIC RESONATOR
    - CL 1: 500K CSU500P (VJ338400)
    - CL 2: CST10.0MTW (VJ337900) 10.0MHz
    - CL 3: CST16.00MXW0 (VK966200) 16.0MHz
11. TRANSISTOR ARRAY
    - IC 8, 9, 21: AN90B22 (VH480900)
12. DIGITAL TRANSISTOR
    - TR 1~6: DTB123ES TP (VJ337600)
13. JUMPER WIRE
    - -J-: 0.55 (VA078900)
    - LF 1, 4, 78, 107, 108, 110, 115, 117, 124, 139, 144, 147, 148: 0.6 (VL448600) U, E, C only

Notes)

Circuit Board :	AM (NX006650)XM665C0 PSR-1700

1. DIODE
   - D 1~4: 30D2-FC6 (VR145300)
   - D 5: 11ES4 (VB481900)
   - D 6, 7: 1SS133,1SS176 (VB941200)
2. PHONE JACK
   - HEAD PHONES: YKB21-5006 (LB101870) HEADPHONES
   - AUX OUT R: YKB21-5012 (VB312600) AUX OUT R
   - AUX OUT L+R/L: YKB21-5014 (VC687500) AUX OUT L+R/L
   - PEDAL 1, 2: YKB21-5074 (VM576000) PEDAL
3. DIN JACK
   - MIDI IN, OUT, THRU: 5P YKF51-5050 (VJ107200) MIDI IN, OUT, THRU
4. COIL
   - FL 1~26: FL5R200QNT 20uH (VB835000) 19pcs
5. IC
   - IC 1, 12: AN7709F (XN320A00) REGULATOR +9V
   - IC 2~4: NJM7805FA (XJ607A00) REGULATOR +5V
   - IC 5, 8, 10: µPC4570C (XC520A00) OP AMP
   - IC 6: M5222L (IG120700) VCA
   - IC 7: LA4705 15W BTL (XM593A00) POWER AMP
   - IC11: S-81250PG-T (XM993A00) REGULATOR +5V
6. PHOTO COUPLER
   - IC 9: PC-900V (VG181900)
7. LINE FILTER
   - LF 1: UF1922S-200Y2R0 (VQ856200)
8. TRANSISTOR
   - TR 1~4: 2SC1740S R, S (IC174070)
   - TR 5: 2SB1274 R, S (VC614000)
9. BASE POST CONNECTOR
   - CN 1: VH-3P TE (LB932030) to P.T.
   - CN 5: PH-2P TE (VB389800) to BT
10. CABLE HOLDER
    - CN 2: 51048-15P TE (VI87930) to DM-CN 4
    - CN 3: 51048-9P TE (VI87870) to DM-CN 6
    - CN 4: 51048-3P TE (VI87810) to MVR-CN 8
11. WIRE TRAP
    - CN 6: 52147-2P TE (VK02460) to SPEAKER-R
    - CN 7: 52147-2P TE (VK02460) to SPEAKER-L
12. FUSE
    - F 1: 6.00A JU 125V (KB003640)
    - F 2: T 5.00A A 250V (KB003350)
13. CERAMIC CAP.
    - C 1, 2: 0.1U 25V Z (VD829400)
    - C13, 15: 270P 50V K (VD841900)
    - C20, 42, 64, 70, 78, 79: 47000P 16V Z (VK392400)
    - C36, 37: 2200P 16V N (VD843000)
    - C43, 44: 680P 50V K (VD842400)
    - C45, 47: 27P 50V J (VD840600)
    - C49, 50: 82P 50V K (VD841200)
    - C51, 52, 58: 10000P 16V N (VD843800)
    - C59, 66, 67: 820P 50V K (VD842500)
    - C60: 470P 50V K (VD842200)
    - C80: 1000P 50V K (VD842600)
14. ELECTROLYTIC CAP.-BP
    - C24, 25: 1.00 50.0V (UK866100)
    - C65, 71: 2.20 50.0V (UK866220)
15. SEMICONDUCTIVE CERA. CAP.
    - C28, 30, 32, 34, 73, 75: 0.1000 25V Z (VC694800)
16. MONOLITHIC MYLAR CAP.
    - C29, 31, 33, 38~41, 72: 0.10 50V J (VE326000)
17. MYLAR CAP.
    - C46, 48: 0.047 50V J (UA654470)
    - C68, 69: 0.027 50V J (UA654270)
18. ELECTROLYTIC CAP.
    - C5: 10000 25.0V (VR128600)
19. JUMPER WIRE
    - -J-: 0.55 (VA078900)

Notes)

Circuit Board :	PNL (NX006600)XM745B0 PSR-1700

1. TACT SWITCH
   - SW: SKHVBL042A H=7 (VQ371700)
2. CONNECTOR
   - CN10P: FJ-10P (VL54870) to PNR-CN10R
   - CN12P: FJ-12P (VL54890) to PNR-CN12R
3. CONNECTOR HOUSING
   - CN4P: 04P-FJ 4P (VQ65670) to PA-CN4R
4. CABLE HOLDER
   - CH8P: 51048-8P TE (VI87860) to PNR
5. CONNECTOR
   - C 3: 52044-36P SE (VQ04650) to DM-CN 1
6. DIODE
   - D 1~10: 1SS133, 1SS176 (VB941200)
7. LED
   - LED: SLN-210VCT12 RE (VJ348700)
   - LED27~30: SLN-210MTT12 GR (VP218300) ORCHESTRATION-EDIT
8. JUMPER WIRE
   - -J-: 0.55 (VA078900)

Notes)

Circuit Board :	PNR (VQ654400)XM746B0 PSR-1700

1. TACT SWITCH
   - SW: SKHVBL042A H=7 (VQ371700)
2. CONNECTOR
   - CN8P: FJ- 8P (VK21630) to RV-CN8R
   - CN10R: FJ-10P (VK217300) to PNL-CN10P
   - CN12R: FJ-12P (VK217500) to PNL-CN12P
3. DIODE
   - D: 1SS133, 176, (VD631600) HSS104
4. LED
   - LED: SLN-210VCT12 RE (VJ348700)
5. JUMPER WIRE
   - -J-: 0.55 (VA078900)

Note)

Circuit Board :	RV +CABLE(3P) (NX006610)XM745B0 PSR-1700
Circuit Board :	RV +CABLE(3P) (NX006510)XM745B0 PSR-2700

1. TACT SWITCH
   - SW: SKHVBL042A H=7 (VQ371700)
2. ROTARY ENCODER
   - SW201: EVQ WP5 F15 24B (VQ371800)
3. CABLE HOLDER
   - CH3P: 51048-3P TE (VI87810) 2pcs
4. CONNECTOR
   - CN8R FJ- 8P (VK217100) to PNR-CN8P
5. LED
   - LED: SLN-210VCT12 RE (VJ348700)

Notes)

Circuit Board :	PA +CABLE(2P) (NX006620)XM745B0 PSR-1700
Circuit Board :	PA +CABLE(2P) (NX006520)XM745B0 PSR-2700

1. CABLE HOLDER
   - CH2P: 51048-2P TE (VI87800) to MS
2. TACT SWITCH
   - SW: SKHVBL042A H=7 (VQ371700)
3. CONNECTOR
   - CN4R 04R-FJ 4P TE (VQ65600) to PNL-CN4P

Notes)

Circuit Board :	MS (NX006630)XM745B0 PSR-1700
Circuit Board :	MS (NX006530)XM745B0 PSR-2700

1. TACT SWITCH
   - SW79: SKHBE091A (VQ320400)

Notes)

Circuit Board :	BT +CABLE(2P) (NX006640)XM745B0 PSR-1700
Circuit Board :	BT +CABLE(2P) (NX006540)XM745B0 PSR-2700

1. SPRING TERMINAL
   - A (VQ598800)
2. JUMPER WIRE
   - -J-: 0.55 (VA078900)

Notes)

Circuit Board :	PSW +CABLE(2P) (NX006660)XM665C0 PSR-1700
Circuit Board :	PSW +CABLE(2P) (NX006580)XM665C0 PSR-2700

1. PUSH SWITCH
   - SDDLB1 J, UC, CEE (VQ670600) POWER
2. CONNECTOR ASSEMBLY
   - CN10: POWER SWITCH 2P (VR12870) to AM-CN9

Notes)

Circuit Board :	MVR +CABLE(3P) (NX006670)XM665C0 PSR-1700
Circuit Board :	MVR +CABLE(3P) (NX006590)XM665C0 PSR-2700

1. ROTARY POT.
   - B10K RK11K1130 (VQ670500) MASTER VOLUME
2. CABLE HOLDER
   - CN 8: 51048-3P TE (VI87810) to AM-CN 4

Notes)

Circuit Board :	MKS (VQ654500)XM959B0 PSR-1700,PSR-2700

1. COIL
   - FB: BL03RN2-R62T4 (VL409500) 0.45µH
2. RESISTOR ARRAY
   - RL 1: RGLE12X223J (VL674500)
3. IC
   - IC 1: HD63B05V (XN040B00) KEY SCANNER CPU
4. CONNECTOR
   - CN 1: 52147-6P TE (VF728300) to DM-CN 7
   - CN 2: 52044-23P SE (VQ04530) to MK
5. CERAMIC RESONATOR
   - CL 1: CST8.00MTW140 (VN002100) or EFOEC8004T3 (VQ305550) 8.00MHz
6. JUMPER WIRE
   - -J-: 0.55 (VA078900)

Notes)

Circuit Board :	DM (VQ470600)XN323C0 (J, B, A) PSR-2700
Circuit Board :	DM (VQ470500)XM721C0 (U, E, C) PSR-2700

1. FERRITE BEAD
   - L 1~4: BL02RN1-R62T4 (GE300610)
   - LF 2, 3, 74~77, 102~105, 125, 138, 149: EXC-ELDR35V (VM898600) U, E, C only
2. RESISTOR ARRAY
   - RA 1~3: RGLE8X473J (VF238600)
   - RA 4: RGLE4X103J (VF773500)
   - RA 5: RGLE6X102J (VN927500)
   - RA 6: RGLE11X473J (VQ665000)
   - RA 7: RGLE7X473J (VL207800)
3. IC
   - IC 1: HD6415108F10 (XJ797A00) CPU
   - IC 2: YMW258-F (XJ427A00) GEW8
   - IC 3: (XM985C00) 4M ROM(PROGRAM)
   - IC 4: (XN303A00) 16M ROM(STYLE)
   - IC 5, 6: TC518128APL80LV (XM972A00) PS RAM 1M
   - IC 7: SN74HC74N (IR007450) DFF
   - IC10, 13: RE5VA45CA-TZ (XM717A00) RESET IC
   - IC14: HD64180ZRP10 (XM744A00) CPU(Z80)
   - IC15: HD74UH4066 (XM966A00) ANALOG SW
   - IC17: SN74HC32N (IR003250) OR
   - IC18: SN74HC125N (IR012550) 3S-BUFF
   - IC19: TC40H138P (IG111900) DEC DEMP
   - IC20: 74AC11138 (XM724A00) DEC DEMP
   - IC22, 23: MSM82C55A-2RS (XB920A00) I/O
   - IC25: TC40H008P (IG096400) AND
   - IC26: TC40H032P (IG052800) OR
   - IC27: SN74HC14N (IR001410) INV
   - IC28: (XM986C00) 1M ROM
   - IC29: TC51832APL-10 (XL978A00) PS RAM 256K
   - IC30: HD63266F (XI939A00) FDC
   - IC31: HN624017PZ11 (XM984B00) 16M ROM(WAVE)
   - IC32: CAT548128L-10RS (XM605A00) PS RAM 1M
   - IC33: YM3413 (XE449A00) LDSP
   - IC34: µPD63200GS (XM145A00) DAC
   - IC35: µPC4570C (XC520A00) OP AMP
   - IC36: AN8005-(TA) (XL559A00) REGULATOR +5V
   - IC37, 41: 74AC11000 (XM723A00) NAND
   - IC38: 74AC11004 (XM722A00) INV
4. IC SOCKET
   - IC 3, 4, 31: DICF-42CS-E (VK863100) 3pcs
   - IC28: DICF-32CS-E (VJ532800) 1pc.
5. CONNECTOR
   - CN 4: 52147-15P TE (VF66760) to AM-CN 2
   - CN 7: 52147-6P TE (VF728300) to MKS-CN 1
6. WIRE TRAP
   - CN 5: 52147-8P TE (VK02520) to PNR-C 1
   - CN 6: 52147-9P TE (VK02530) to AM-CN 3
   - CN10: 52147-3P TE (VK02470) to PITCH BEND
7. CONNECTOR
   - CN 1: 52045-36P TE (VQ04850) to PNL-C 3
   - CN 2: 52045-30P TE (VP32720) to SA-CN 1
   - CN 3: 52045-8P TE (VP682200) to SA-CN 2
   - CN 8: 52045-24P TE (VP12770) to FDD
   - CN 9: 52233-16P TE (VQ67070) to LCD
8. EMI FILTER
   - LF 5~38, 79~101, 106, 109, 111~114, 116, 118~123, 126~137, 141~143, 145, 146, 151: EXC-ECT221 VQ395400) U, E, C only
9. QUARTZ CRYSTAL UNIT
   - CX 1: 18.8M AT-49 (VQ666000)
10. CERAMIC RESONATOR
    - CL 1: 500K CSU500P (VJ338400)
    - CL 2: CST10.0MTW (VJ337900) 10.0MHz
    - CL 3: CST16.00MXW0 (VK966200) 16.0MHz
11. TRANSISTOR ARRAY
    - IC 8, 9, 21: AN90B22 (VH480900)
12. DIGITAL TRANSISTOR
    - TR 1~6: DTB123ES TP (VJ337600)
13. JUMPER WIRE
    - LF 1, 4, 78, 107, 108, 110, 115, 117, 124, 139, 144, 147, 148: 0.6 (VL448600) U, E, C only

Notes)

Circuit Board :	AM (NX006570)XM665C0 PSR-2700

1. DIODE
   - D 1~4: 30D2-FC6 (VR145300)
   - D 5: 11ES4 (VB481900)
   - D 6, 7: 1SS133,1SS176 (VB941200)
2. PHONE JACK
   - HEADPHONS: YKB21-5006 (LB101870) HEADPHONES
   - AUX OUT R: YKB21-5012 (VB312600) AUX OUT R, SAMPL
   - LINE: YKB21-5012 (VB312600) SAMPLE IN LINE
   - MIC: YKB21-5012 (VB312600) SAMPLE IN MIC
   - AUX OUT L+R/L: YKB21-5014 (VC687500) AUX OUT L+R/L
   - PEDAL 1, 2: YKB21-5074 (VM576000) PEDAL
3. DIN JACK
   - MIDI IN, OUT, THRU: 5P YKF51-5050 (VJ107200) MIDI IN, OUT, THRU
4. COIL
   - FL 1~26: FL5R200QNT (VB835000) 20uH 23pcs
5. IC
   - IC 1, 12: AN7709F (XN320A00) REGULATOR +9V
   - IC 2~4: NJM7805FA (XJ607A00) REGULATOR +5V
   - IC 5, 8, 10: UPC4570C (XC520A00) OP AMP
   - IC 6: M5222L (IG120700) VCA
   - IC 7: LA4705 15W BTL (XM593A00) POWER AMP
   - IC11: S-81250PG-T (XM993A00) REGULATOR +5V
6. PHOTO COUPLER
   - IC 9: PC-900V (VG181900)
7. LINE FILTER
   - LF 1: UF1922S-200Y2R0 (VQ856200)
8. TRANSISTOR
   - TR 1~4: 2SC1740S R,S (IC174070)
   - TR 5: 2SB1274 R,S (VC614000)
9. BASE POST CONNECTOR
   - CN 1: VH-3P TE (LB932030) to P.T.
   - CN 5: PH-2P TE (VB389800) to BT
10. CABLE HOLDER
    - CN 2: 51048-15P TE (VI87930) to DM-CN 4
    - CN 3: 51048-9P TE (VI87870) to DM-CN 6
    - CN 4: 51048-3P TE (VI87810) to MVR-CN 8
11. WIRE TRAP
    - CN 6: 52147-2P TE (VK02460) to SPEAKER-R
    - CN 7: 52147-2P TE (VK02460) to SPEAKER-L
12. FUSE
    - F 1: 6.00A JU 125V (KB003640)
    - F 2: T 5.00A A 250V (KB003350)
13. CERAMIC CAP.
    - C 1, 2: 0.1U 25V Z (VD829400)
    - C13, 15: 270P 50V K (VD841900)
    - C20, 42, 57, 64, 70, 78, 79: 47000P 16V Z (VK392400)
    - C36, 37: 5600P 16V N (VD843500)
    - C43, 44: 680P 50V K (VD842400)
    - C45, 47: 27P 50V J (VD840600)
    - C49, 50, 56: 82P 50V K (VD841200)
    - C51, 52, 53, 54, 58: 10000P 16V N (VD843800)
    - C59: 820P 50V K (VD842500)
    - C60: 470P 50V K (VD842200)
    - C66, 67, 80: 1000P 50V K (VD842600)
14. ELECTROLYTIC CAP.-BP
    - C24, 25, 26: 1.00 50.0V (UK866100)
    - C27: 10.00 50.0V (UK567100)
    - C65, 71: 2.20 50.0V (UK866220)
15. SEMICONDUCTIVE CERA. CAP.
    - C28, 30, 32, 34, 73, 75: 0.1000 25V Z (VC694800)
16. MONOLITHIC MYLAR CAP.
    - C29, 31, 33, 38~41, 72: 0.10 50V J (VE326000)
17. MYLAR CAP.
    - C46, 48: 0.047 50V J (UA654470)
    - C68, 69: 0.027 50V J (UA654270)
18. ELECTROLYTIC CAP.
    - C5: 10000 25.0V (VR128600)
19. JUMPER WIRE
    - -J-: 0.55 (VA078900)

Note)

Circuit Board :	PNL (NX006500)XM745B0 PSR-2700

1. TACT SWITCH
   - SW: SKHVBL042A H=7 (VQ371700)
2. CONNECTOR
   - CN10P: FJ-10P (VL54870) to PNR-CN10R
   - CN12P: FJ-12P (VL54890) to PNR-CN12R
3. CONNECTOR HOUSING
   - CN4P: 04P-FJ 4P (VQ65670) to PA-CN4R
4. CABLE HOLDER
   - CH8P: 51048-8P TE (VI87860) to PNR
5. CONNECTOR
   - C 3: 52044-36P SE (VQ04650) to DM-CN 1
6. DIODE
   - D 1~10: 1SS133, 1SS176 (VB941200)
7. LED
   - LED: SLN-210VCT12 RE (VJ348700)
   - LED27~30: SLN-210MTT12 GR (VP218300) ORCHESTRATION-EDIT
8. JUMPER WIRE
   - -J-: 0.55 (VA078900)

Notes)

Circuit Board :	PNR (NX006550)XM746B0 PSR-2700

1. TACT SWITCH
   - SW: SKHVBL042A H=7 (VQ371700)
2. CONNECTOR
   - CN8P: FJ- 8P (VK21630) to RV-CN8R
   - CN10R: FJ-10P (VK217300) to PNL-CN10P
   - CN12R: FJ-12P (VK217500) to PNL-CN12P
3. CABLE HOLDER
   - CH3P: 51048-3P TE (VI87810) to SV-CH3P
   - C 1: 51048-8P TE (VI87860) to DM-CN 5
4. DIODE
   - D: 1SS133, 176, HSS104 (VD631600)
5. LED
   - LED: SLN-210VCT12 RE (VJ348700)
   - LED100~105: SLN-210MTT12 GR (VP218300) –6, –12, –18, –24, –30, –36
6. JUMPER WIRE
   - -J-: 0.55 (VA078900)

Notes)

Circuit Board :	SA (VQ590700)XM977B0 (J, B, A) PSR-2700
	SA (VR244300)XN46310 (U, E, C) PSR-2700

1. IC
   - IC 1: YMW258-F (XJ427A00) GEW8
   - IC 2, 3: HM658512LP-8V (XM990A00) 4M PSRAM
   - IC 4: M5292FP (XM987A00) VCA
   - IC 5: TC74HC4066AP (IR406600) ANALOG SW
   - IC 6: NJM3404AD (XH215A00) OP AMP
   - IC 7: SN74HC04N (IR000450) INV
   - IC 8: LC78865M (XM988A00) ADC
   - IC 9: HG62E08R71P (XM789A00) GATE ARRAY
   - IC10: µPD63200GS (XM145A00) DAC
   - IC11, 13, 14: AN8005 (XL559A00) REGULATOR +5V
   - IC12: µPC4570C (XC520A00) OP AMP
7. CONNECTOR
   - CN 1: 52044-30P SE (VQ04590) to DM-CN 2
   - CN 2: 52045-8P SE (VP682300) to DM-CN 3
8. LC FILTER
   - LPF 1: TFB-3LDG 5KHZ (VQ673900)
   - LPF 2: TFB-3LDG 10KHZ (VQ674000)
9. QUARTZ CRYSTAL UNIT
   - CL 1: AT49/12.0858MHZ (VR023300)
10. DIODE
    - D 1, 2: 1SS133, 1SS176 (VB941200)
11. JUMPER WIRE
    - J: 0.55 (VA078900)

Notes)

Circuit Board :	SV +CABLE(3P) (NX006560)XM746B0 PSR-2700

1. VARIABLE RESISTOR
   - VR01: B10K RK11K1130 (VQ655700)
2. CABLE HOLDER
   - CH3P: 51048-3P TE (VI87810) to PNR-CH3P

PSR-1700/PSR-2700