PORTATONE

PSR-350

SERVICE MANUAL

■ CONTENTS

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

The data provided is believed to be accurate and applicable to the unit (s) indicated on the cover. The research engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefor, 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 bus in the unit (heavy gauge black wires connect to this bus).

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

WARNING : CHEMICAL CONTENT NOTICE !

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

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

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

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

■ WARNING

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

■ SPECIFICATIONS

Keyboards
- 61 standard-size keys (C1 - C6), with Touch Response and Dynamic Filter.

Display
- Large multi-function LCD display (backlit)

Setup
- STANDBY/ON
- MASTER VOLUME : MIN - MAX

Panel Controls
- OVERALL (L, R), SONG, VOICE, STYLE, PORTABLE GRAND, DJ, METRONOME, [0]-[9], [+](YES), [-](NO), DEMO, TOUCH, HARMONY, Dict., L, R, TEMPO/TAP

Voice
- 116 panel voices + 12 drum kits + XG expanded voices +10 DJ voices
- Polyphony : 32

Auto Accompaniment
- 106 styles + Disk
- Accompaniment Control : ACMP ON/OFF, SYNC STOP, SYNC START, START/STOP, INTRO/ENDING, MAINA/B(AUTO FILL)
- Fingering : Multi fingering
- Accompaniment Volume

Music Database
- 208

Yamaha Educational Suite
- Dictionary
- Lesson 1-4

One Touch Setting
- Voice (for each style or song)

Overall controls
- Lesson R, L
- Octave
- Transpose
- Tuning
- Accompaniment/Song Volume
- Metronome Volume
- Reverb
- DSP
- Harmony
- Grade/Talking
- MIDI

Effects
- Reverb : 8 types
- DSP : 38 types
- Harmony : 26 types

Song
- 100 Songs + 5 User Songs
- Song Clear, Track Clear

Recording
- Song
  User Song : 5 Songs
  Recording Tracks : 1, 2, 3, 4, 5, CHORD

Disk
- Song Playback
- Save
- Load
- Delete
- Format

MIDI
- Initial Send
- Local on/off

Auxiliary jacks
- PHONES/OUTPUT, DC IN 12V, MIDI IN/OUT, SUSTAIN

Amplifier
- 3.0W + 3.0W

Speakers
- 12cm x 2 + 3cm x 2

Power Consumption
- 22 W (when using PA-5C power adaptor)

Power Supply
- Adaptor : Yamaha PA-5C AC power adaptor
- Batteries : Six “D” size, R20P (LR20) or equivalent batteries

Dimensions (W x D x H)
- 952 x 387 x 169 mm (37-1/2" x 15-1/4" x 6-2/3")

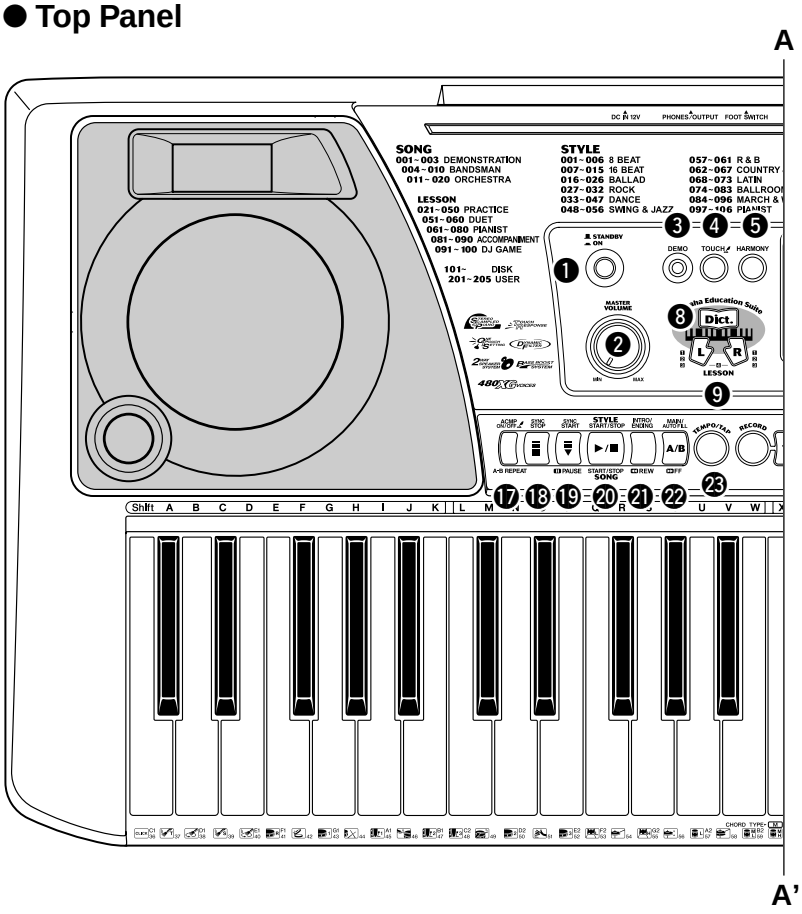
Weight
- 8.5 kg (18 lbs., 12 oz.)

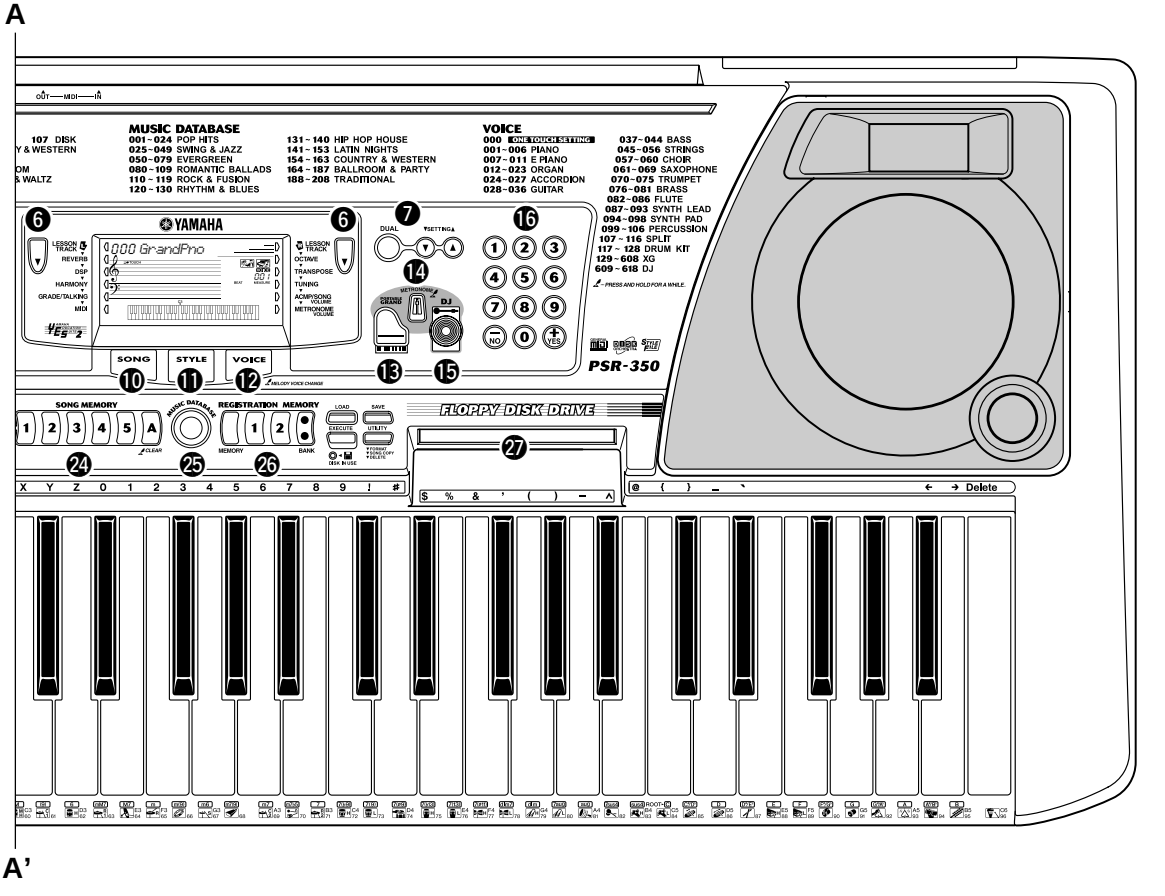
Supplied Accessories
- Music Stand
- Data Disk
- Owner’s Manual
- Song Book

Optional Accessories
- Headphones : HPE-150
- AC power adaptor : PA-5C
- Footswitch : FC4, FC5
- Keyboard stand : L-6

■ PANEL LAYOUT

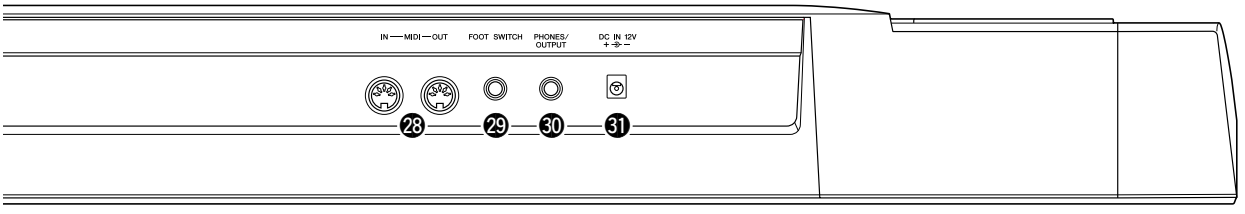
● Top Panel





❶ Power switch ([STANDBY/ON])
❷ [MASTER VOLUME] dial
❸ [DEMO] button
❹ [TOUCH] button
❺ [HARMONY] button
❻ Overall (left, right) buttons
❼ [DUAL] and [SETTING ▲/▼] buttons
❽ [Dict.] (DICTIONARY) button
❾ LESSON [L] (Left) and [R] (Right) buttons
❿ [SONG] button
⓫ [STYLE] button
⓬ [VOICE] button
⓭ [PORTABLE GRAND] button
⓮ [METRONOME] button
⓯ [DJ] button
⓰ Numeric keypad, [+/YES] and [-/NO] but-tons
⓱ [ACMP ON/OFF] / [A-B REPEAT] button
⓲ [SYNC STOP] button
⓳ [SYNC START] / [❚❚ PAUSE] button
⓴ [START/STOP] button
㉑ [INTRO/ENDING] / [◀◀ REW] button
㉒ [MAIN/AUTO FILL] / [▶▶ FF] button
㉓ [TEMPO/TAP] button
㉔ [SONG MEMORY] buttons
㉕ [MUSIC DATABASE] button
㉖ [REGISTRATION MEMORY] buttons
㉗ Disk Drive

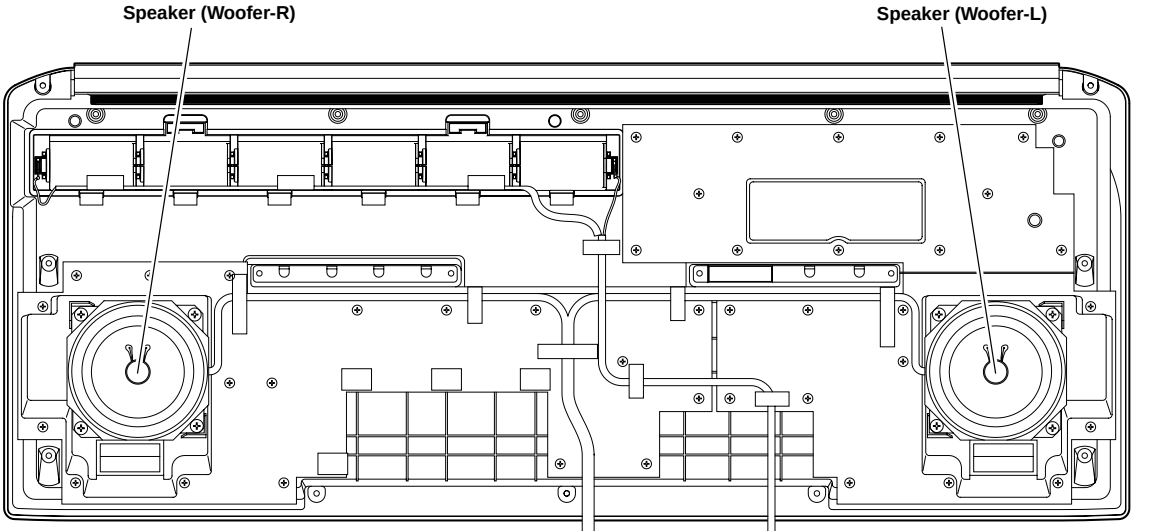
● Rear Panel



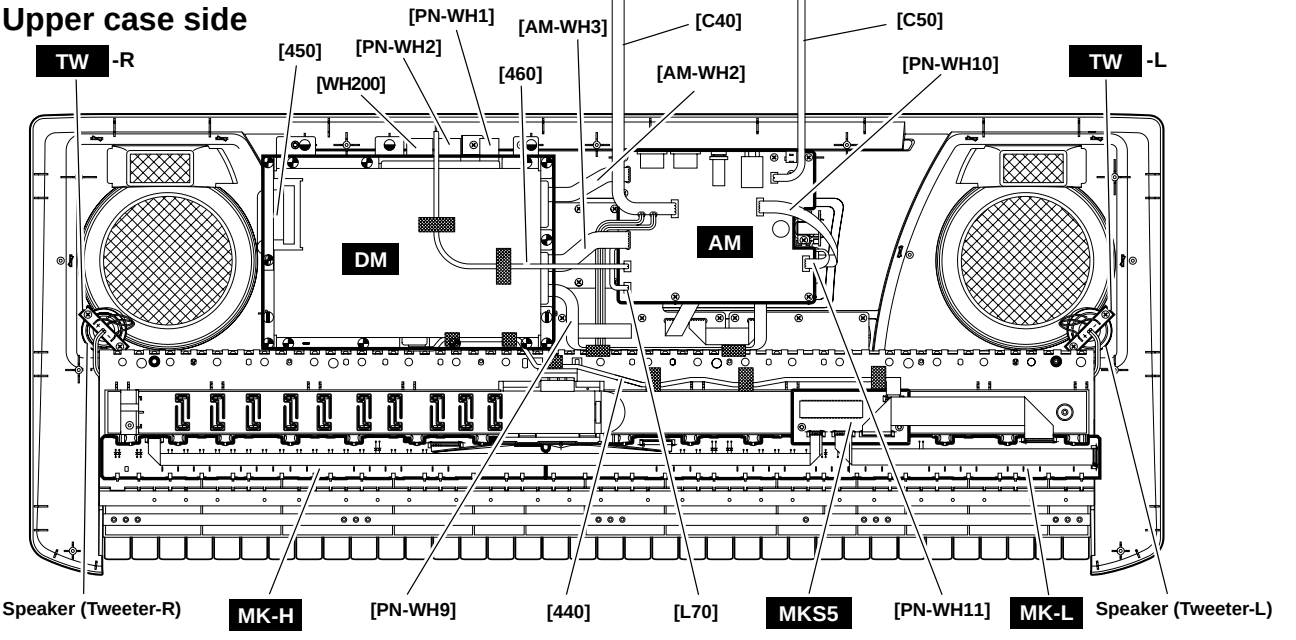
㉘ [MIDI IN], [MIDI OUT] connectors
㉙ [FOOT SWITCH] jack
㉚ [PHONES/OUTPUT] jack
㉛ [DC IN 12V] jack

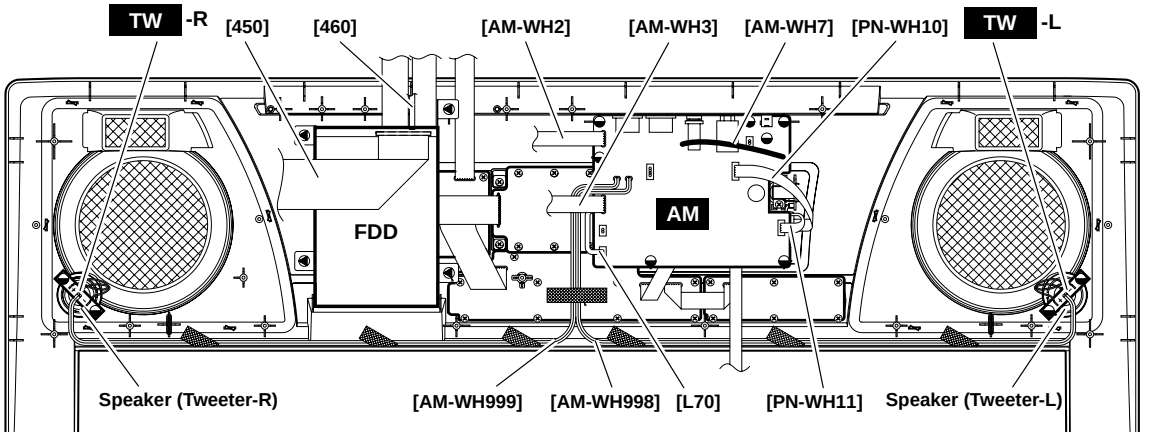
■ CIRCUIT BOARD LAYOUT & WIRING

● Lower case side

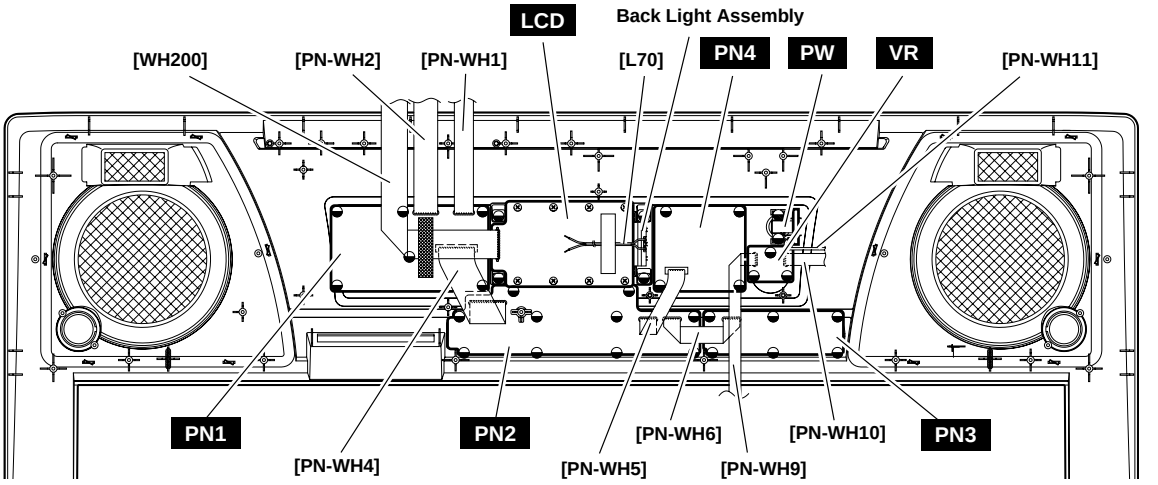


● Upper case side





● Upper case side

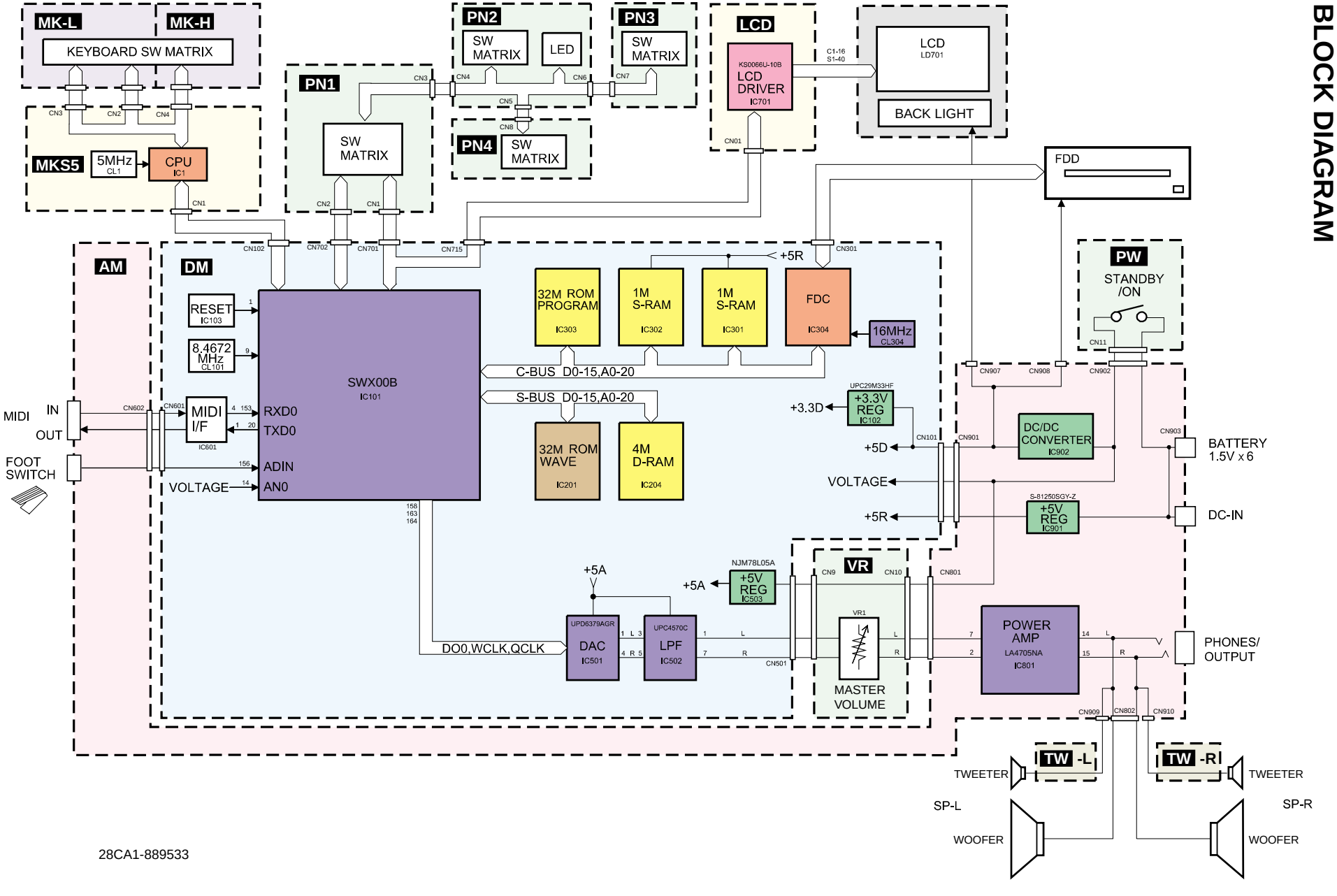


Location	Part No.	Connector Assembly	Destination				Remarks	
440	- -	KB	DM-CN102 *6	*1	MKS5-CN1 *6	*1	6P	(V718860)
450	V3819800	FDD	DM-CN301	*1	FDD-CN1	*3	34P	
460	- -	FDPS	AM-CN908	*1	FDD-CN2	*2	2/4P	(V718900)
C40	- -	SP	Speaker (Wo)		AM-CN802	*4	4P	(V718870)
C50	- -	BAT	Battery		AM-CN903	*5	2P	(V705790)
AM-WH2	- -	PS	AM-CN901		DM-CN101	*1	7P	(V718820)
AM-WH3	- -	DJ	AM-CN602		DM-CN601	*1	6P	(V718830)
AM-WH7	- -	EP1	AM-EP1		AM-EP2		L=120	(V719460)
AM-WH998	- -	TW	AM-CN909		TW-L		(V718880)	
AM-WH999	- -	TW	AM-CN910		TW-R		(V718880)	
WH200	- -	LCD	LCD-CN1		DM-CN175	*1	12P	(V718800)
PN-WH1	- -	PN1	PN 1-CN1		DM-CN701	*1	8P	(V718750)
PN-WH2	- -	PN2	PN 1-CN2		DM-CN702	*1	10P	(V718760)
PN-WH4	- -	PN3	PN 2-CN4		PN 1-CN3	*1	15P	(V718770)
PN-WH5	- -	PN4	PN 2-CN5		PN 4-CN8	*1	7P	(V718780)
PN-WH6	- -	PN5	PN 2-CN6		PN 3-CN7		6P	(V718790)
PN-WH9	- -	VR1	VR-CN9		DM-CN501	*1	5P	(V718840)
PN-WH10	- -	VR2	VR-CN10		AM-CN801	*1	5P	(V718850)
PN-WH11	- -	SW	PW-CN11		AM-CN902	*1	4P	(V719860)
L70	- -	BLT	Back Light		AM-CN907	*1	2P	(V718810)

* The parts with "–" in "**Part No.**" are not available as spare parts.
* 1 : Edge mark is adjusted to Pin 1 mark (△mark).
* 2 : Red wire is adjusted to Pin 1 mark (△mark).
* 3 : Connector hook is located at the upper side of FDD.
* 4 : White wire is adjusted to Pin 1 mark (△mark).
* 5 : Red wire is adjusted to Pin 1 mark (△mark).
* 6 : Be sure to make a correct match when connecting MKS5(CN1) and DM(CN102).
Connecting the connectors in the wrong way around may cause damage to the MKS5 circuit board.

Caution: Be sure to attach the removed filament tape just as it was before removal.

■ BLOCK DIAGRAM



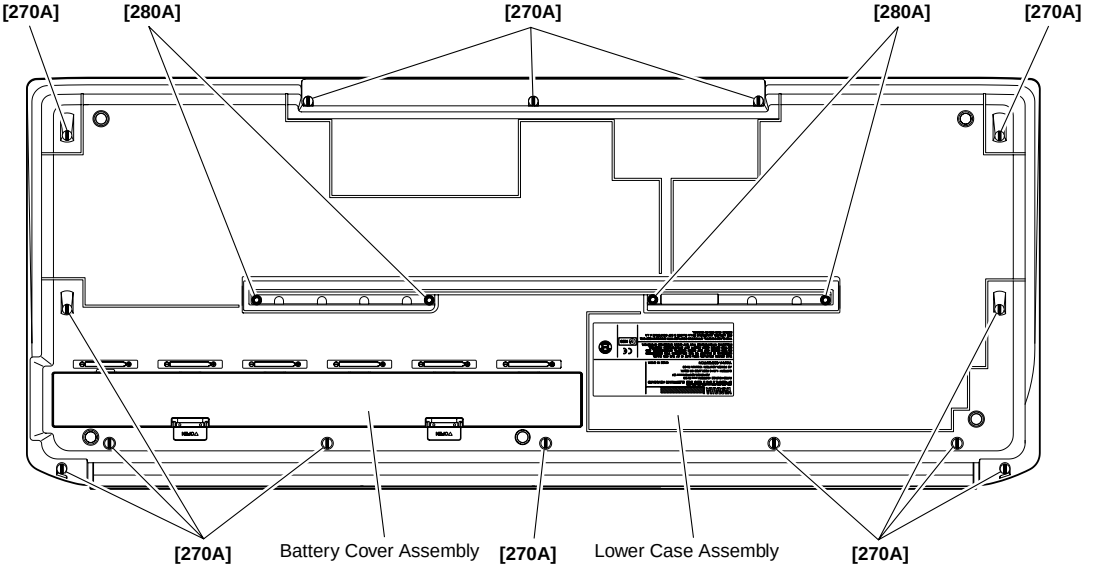
28CA1-889533

■ DISASSEMBLY PROCEDURE

1. Lower Case Assembly

(Time required : About 5 min.)

1-1. Remove the fourteen (14) screws marked [270A] and the four (4) screws marked [280A]. The lower case assembly can then be removed. (Fig. 1)



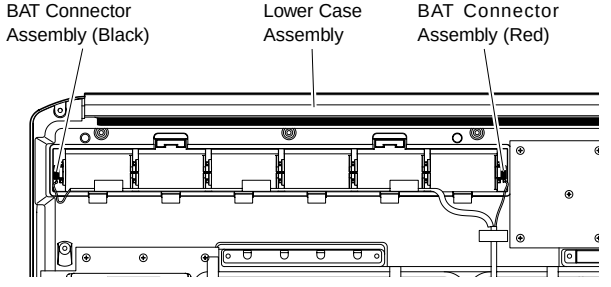
[270A] : Bind Head Tapping Screw-P 3.0X12 MFZN2Y (EP600300)
[280A] : Bind Head Tapping Screw-P 3.0X25 MFZN2Y (VK228100)

(Fig. 1)

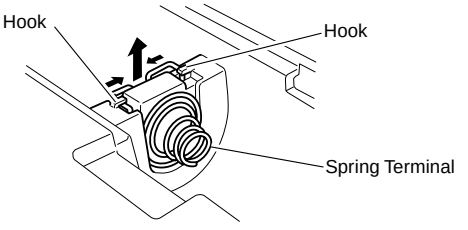
2. Spring Terminal

(Time required : About 10 min.)

2-1. Remove the lower case assembly. (See procedure 1)
2-2. Remove the BAT connector assembly (red/black) soldered to the spring terminal (+)/(-). (Fig. 2)
2-3. Remove the battery cover assembly. (Fig. 1)
2-4. Remove the spring terminal by releasing hooks (2 locations for each). (Fig. 3)



(Fig. 2)



(Fig. 3)

3. DM Circuit Board, Shield Box U and L

(Time required : About 10 min.)

3-1. Remove the lower case assembly. (See procedure 1)
3-2. Remove the two (2) screws marked [270B] and the thirteen (13) screws marked [290]. The shield box U and the DM circuit board can then be removed. (Fig. 4)
3-3. Remove the three (3) screws marked [260A]. The shield box L can then be removed. (Fig. 4)

4. Floppy Disk Drive Assembly

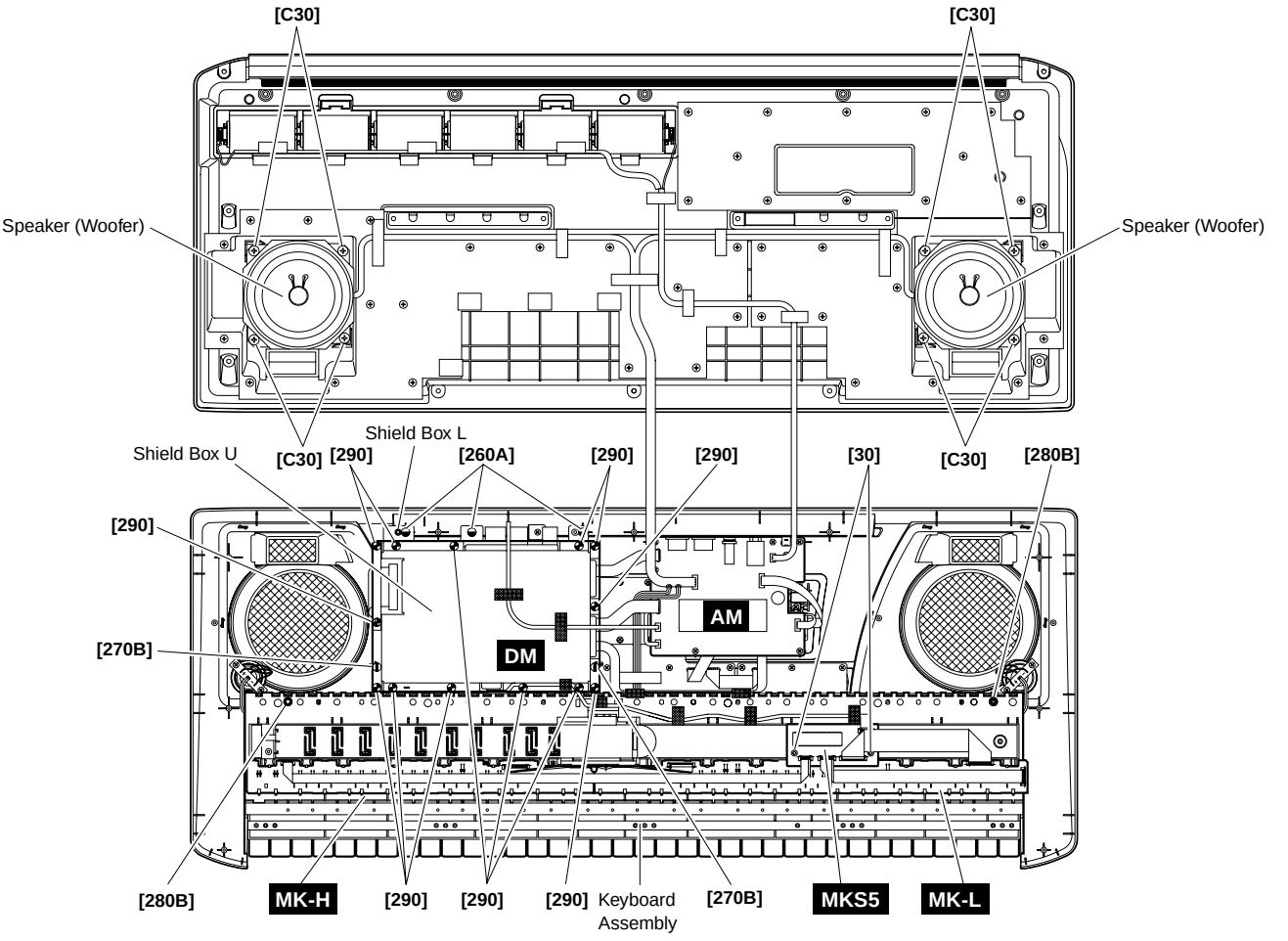
(Time required : About 10 min.)

4-1. Remove the lower case assembly. (See procedure 1)
4-2. Remove the DM circuit board and the shield box U and L. (See procedure 3)
4-3. Remove the four (4) screws marked [300]. The floppy disk assembly can then be removed. (Fig. 5)

5. AM Circuit Board

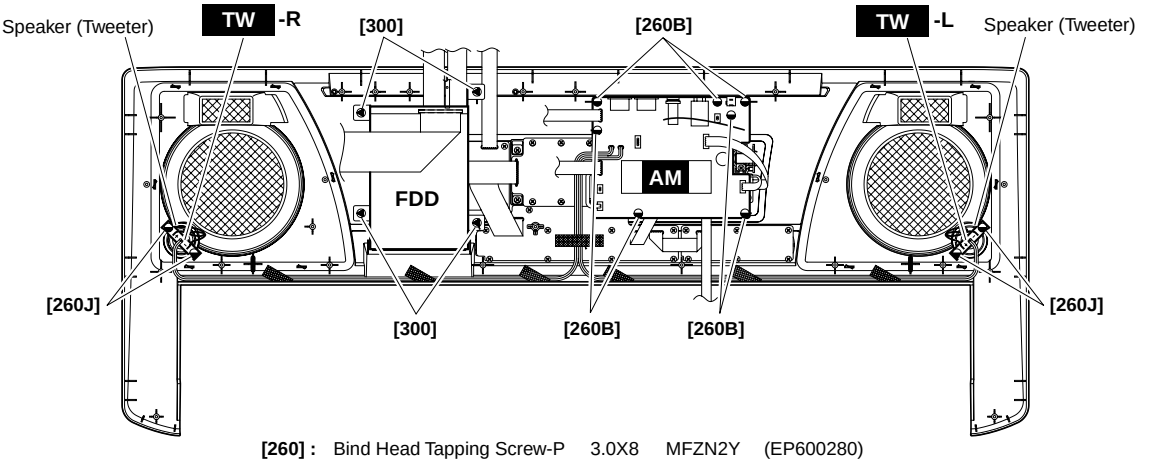
(Time required : About 10 min.)

5-1. Remove the lower case assembly. (See procedure 1)
5-2. Remove the seven (7) screws marked [260B]. The AM circuit board can then be removed. (Fig. 5)



[30] :	Bind Head Tapping Screw-P	3.0X8	MFZN2Y	(EP600280)
[260A] :	Bind Head Tapping Screw-P	3.0X8	MFZN2Y	(EP600280)
[270B] :	Bind Head Tapping Screw-P	3.0X12	MFZN2Y	(EP600300)
[280B] :	Bind Head Tapping Screw-P	3.0X25	MFZN2Y	(VK228100)
[290] :	Bind Head Tapping Screw-B	3.0X8	MFZN2Y	(EP600250)
[C30] :	Bind Head Tapping Screw-P	4.0X8	MFZN2BL	(VB931600)

(Fig. 4)



[260] :	Bind Head Tapping Screw-P	3.0X8	MFZN2Y	(EP600280)
[300] :	Sems Pan Head Screw	3.0X10	MFZN2Y	(V5115200)

(Fig. 5)

6. PN 1 Circuit Board

(Time required : About 15 min.)

6-1. Remove the lower case assembly. (See procedure 1)
6-2. Remove the DM circuit board and the shield box U and L. (See procedure 3)
6-3. Remove the floppy disk drive assembly. (See procedure 4)
6-4. Remove the six (6) screws marked [260C]. The PN 1 circuit board can then be removed. (Fig. 6)

7. PN 2 Circuit Board

(Time required : About 20 min.)

7-1. Remove the lower case assembly. (See procedure 1)
7-2. Remove the DM circuit board and the shield box U and L. (See procedure 3)
7-3. Remove the floppy disk drive assembly. (See procedure 4)
7-4. Remove the AM circuit board. (See procedure 5)
7-5. Remove the ten (10) screws marked [260D]. The PN 2 circuit board can then be removed. (Fig. 6)

8. PN 3 Circuit Board

(Time required : About 8 min.)

8-1. Remove the lower case assembly. (See procedure 1)
8-2. Remove the six (6) screws marked [260E]. The PN 3 circuit board can then be removed. (Fig. 6)

9. PN 4 Circuit Board

(Time required : About 10 min.)

9-1. Remove the lower case assembly. (See procedure 1)
9-2. Remove the AM circuit board. (See procedure 5)
9-3. Remove the four (4) screws marked [260F]. The PN 4 circuit board can then be removed. (Fig. 6)

10. PW Circuit Board

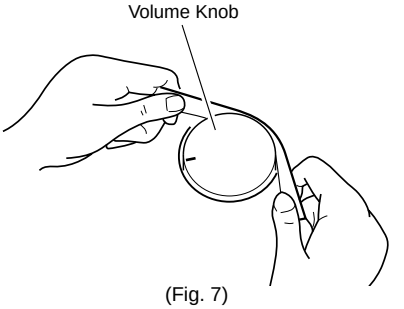
(Time required : About 5 min.)

10-1. Remove the lower case assembly. (See procedure 1)
10-2. Remove the two (2) screws marked [260G]. The PW circuit board can then be removed. (Fig. 6)

11. VR Circuit Board

(Time required : About 10 min.)

11-1. Remove the lower case assembly. (See procedure 1)
11-2. Remove the AM circuit board. (See procedure 5)
11-3. Remove the volume knob from the control panel side. (Fig. 7)
11-4. Remove the three (3) screws marked [260H]. The VR circuit board can then be removed. (Fig. 6)



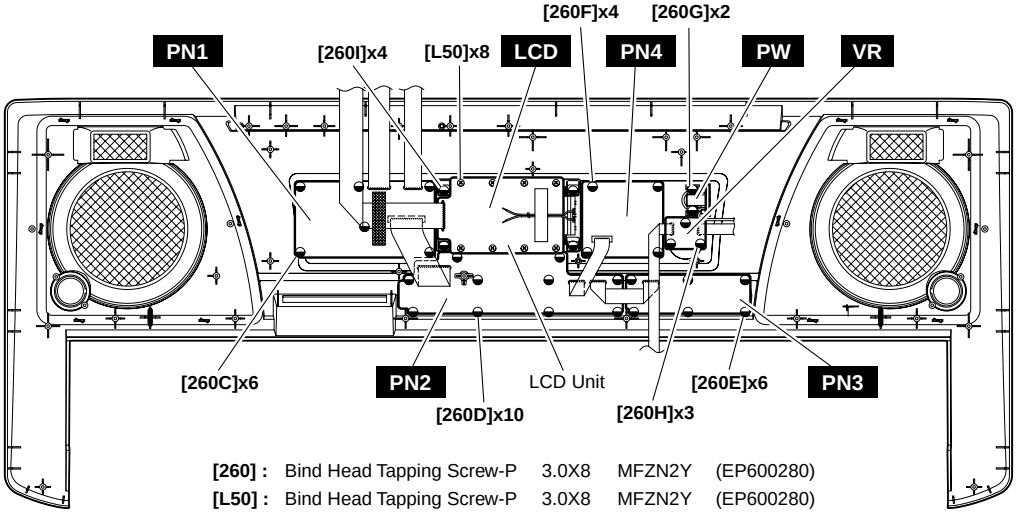
(Fig. 7)

12. LCD Unit (LCD Circuit Board, Back Light Assembly and LCD)

(Time required : About 20 min.)

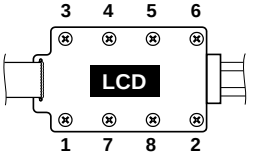
12-1. Remove the lower case assembly. (See procedure 1)
12-2. Remove the DM circuit board and the shield box U and L. (See procedure 3)
12-3. Remove the AM circuit board. (See procedure 5)
12-4. Remove the four (4) screws marked [260I]. The LCD unit can then be removed. (Fig. 6)
12-5. Remove the eight (8) screws marked [L50]. The LCD circuit board can then be removed. (Fig. 6)

* **When you install the LCD circuit board, tighten the screws from No.1 to No. 8 in order as shown in Figure 6-1.**



[260] : Bind Head Tapping Screw-P 3.0X8 MFZN2Y (EP600280)
[L50] : Bind Head Tapping Screw-P 3.0X8 MFZN2Y (EP600280)

(Fig. 6)



(Fig. 6-1)

13. Keyboard Assembly

(Time required : About 10 min.)

13-1. Remove the lower case assembly. (See procedure 1)

13-2. Remove the two (2) screws marked [280B]. The keyboard assembly can then be removed. (Fig. 4)

14. Speakers and TW Circuit Board

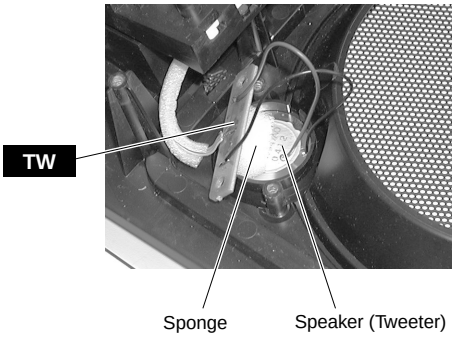
(Time required : About 10 min.)

14-1. Remove the lower case assembly. (See procedure 1)

14-2. Remove the right and left (woofer) speakers by removing four (4) screws marked [C30] from each speaker. (Fig. 4)

14-3. Remove the right and left TW circuit boards by removing two (2) screws each marked [260J]. (Fig. 5)

14-4. Remove the right and left (tweeter) speakers. (Fig. 5, Photo 1)



(Photo 1)

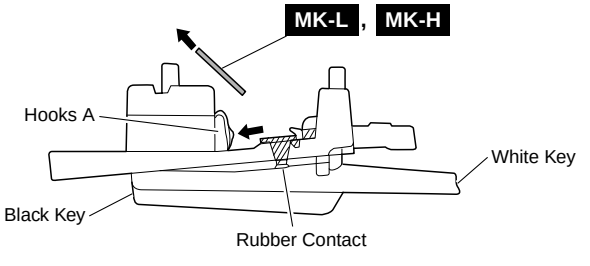
15. Disassembling the Keyboard Assembly

15-1 Remove the keyboard assembly. (See procedure 13.)

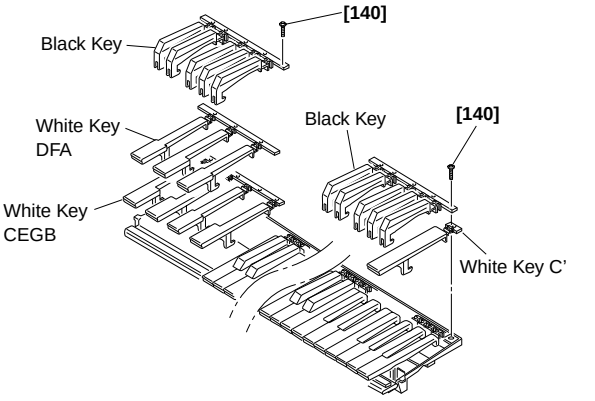
15-2 Remove the two (2) screws marked [30]. The MKS5 circuit board can then be removed. (Fig. 4)

15-3 Remove the MK-L and MK-H circuit boards while pressing the fifteen (15) hooks A inward, and then remove the rubber contact. (Fig. 8)

15-4 Remove the twenty-one (21) screws marked [140], then remove the black keys from the lower notes. Afterwards, remove the white keys DFA and C' and then remove the white keys CEGB from the higher notes. At this time, lift the keys from the front and slide them towards you. the keys can then be removed from the assembly. (Fig. 9)



(Fig.8)



[140] : Bind Head Tapping Screw-P 3.0X16 MFZN2Y (EP600310)

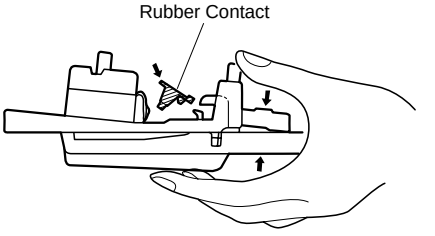
(Fig.9)

16. Assembling the Keyboard Assembly

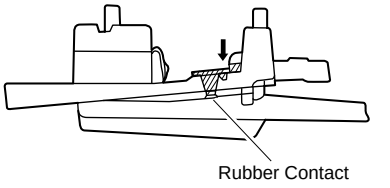
16-1 Install the white keys CEGB from the lower notes, and then install the DFA keys and C' key. Afterwards install the black keys from the higher notes, and tighten the twenty-one (21) screws marked [140]. (Fig. 9)

16-2 Install the rubber contacts in the assembly while pressing the keys as shown in Figure 10. Check that the rubber contact has been firmly placed into position in the area indicated by the arrow in Figure 11. When fitting the rubber contacts, raise both ends of the frame so that keys do not push the rubber contact up.

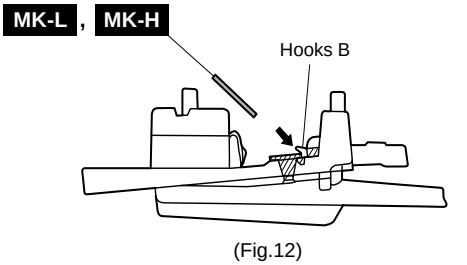
16-3 Install the MK-L, MK-H circuit boards in the assembly so that the hooks B hold it as shown in Figure 12.



(Fig.10)



(Fig.11)



(Fig.12)

■ LSI PIN DESCRIPTION

● μ**PD789022GB-A15-8E** (XZ560100) **CPU**

MKS5 : IC1

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	P12	I/O	Port 1	23	P32/INTP2/CPT2	I/O	Port 3/External interrupt input/Capture edge input
2	P11	I/O		24	P31/INTP1	I/O	Port 3/External interrupt input
3	P10	I/O		25	P30/INTP0	I/O	
4	P47/KR7	I/O	Port 4/Key return signal detection input	26	P22/RXD/SI0	I/O	Port 2/Asynchronous serial interface serial data input/Serial interface serial data input
5	P46/KR6	I/O		27	P21/TXD/SO0	I/O	Port 2/Asynchronous serial interface serial data output/Serial interface serial data output
6	P45/KR5	I/O		28	P20/ASCK/SCK0	I/O	Port 2/Asynchronous serial interface serial clock input/Serial interface serial clock
7	P44/KR4	I/O		29	P07	I/O	Port 0
8	P43/KR3	I/O		30	P06	I/O	
9	P42/KR2	I/O		31	P05	I/O	
10	P41/KR1	I/O		32	P04	I/O	
11	P40/KR0	I/O		33	P03	I/O	
12	NC			34	P02	I/O	
13	IC		Internally connected (N.C.)	35	P01	I/O	
14	X2		Clock	36	P00	I/O	
15	X1	I		37	NC		
16	VSS0		Ground	38	VDD1		Power supply
17	VDD0		Power supply	39	VSS1		Ground
18	/RESET	I	System reset	40	P17	I/O	Port 1
19	P53	I/O	Port 5	41	P16	I/O	
20	P52	I/O		42	P15	I/O	
21	P51/TO2	I/O	Port 5/16-bit timer output	43	P14	I/O	
22	P50/TI0/TO0	I/O	Port 5/External count clock input to 8-bit timer/8-bit timer output	44	P13	I/O	

● **HD63266F** (XI939A00) **FDC** (Floppy Disk Controller)

DM : IC304

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

● **HG73C205AFD** (XU947C00) **SWX00B** (Tone Generator)

DM : IC101

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	ICN	I	Initial clear	85	CMA3	O	Program address bus
2	RFCLKI	I	PLL Clock	86	CMA8	O	Program address bus
3	TM2	I	PLL Control	87	CMA2	O	Program address bus
4	AVDD_PLL		Power supply	88	CRD	O	read signal
5	AVSS_PLL		Ground	89	CMA1	O	Program address bus
6	MODE0	I	SWX dual mode	90	CUB	O	high byte effective signal
7	VCC7		Power supply	91	VCC91		Power supply
8	GND8		Ground	92	GHND92		Ground
9	XIN	I	crystal oscillator	93	CS1	O	CS signal
10	XOUT	O	crystal oscillator	94	CMA0	O	Program address bus
11	MODE1	I	SWX separate mode	95	CLB	O	low byte effective signal
12	TEST0	I	TEST pin	96	CMA12	O	Program address bus
13	TESTON	I	TEST pin	97	CMA11	O	Program address bus
14	AN0-P40	I	A/D converter	98	CMA10	O	Program address bus
15	AN1-P41	I	A/D converter	99	CMA9	O	Program address bus
16	AN2-P42	I	A/D converter	100	GND100		Ground
17	AN3-P43	I	A/D converter	101	CWE	O	write signal
18	AVDD_AN		Power supply	102	CMA16	O	Program address bus
19	AVSS_AN		Ground	103	CMA15	O	Program address bus
20	TXD0	O	for MIDI or TO-HOST	104	CMA14	O	Program address bus
21	TXD1	O	for MIDI	105	CMA13	O	Program address bus
22	EXCLK	I	Crystal oscillator	106	CMD8	I/O	Program memory Data bus
23	SMD11	I/O	Wave memory data bus	107	CMD7	I/O	Program memory Data bus
24	SMD4	I/O	Wave memory data bus	108	CMD9	I/O	Program memory Data bus
25	SMD3	I/O	Wave memory data bus	109	CMD6	I/O	Program memory Data bus
26	SMD12	I/O	Wave memory data bus	110	CMD10	I/O	Program memory Data bus
27	SMD10	I/O	Wave memory data bus	111	CMD5	I/O	Program memory Data bus
28	SMD5	I/O	Wave memory data bus	112	CMD11	I/O	Program memory Data bus
29	SMD2	I/O	Wave memory data bus	113	CMD4	I/O	Program memory Data bus
30	SMD13	I/O	Wave memory data bus	114	CMD12	I/O	Program memory Data bus
31	SMD9	I/O	Wave memory data bus	115	CMD3	I/O	Program memory Data bus
32	SMD6	I/O	Wave memory data bus	116	CMD13	I/O	Program memory Data bus
33	SMD1	I/O	Wave memory data bus	117	CMD2	I/O	Program memory Data bus
34	SMD14	I/O	Wave memory data bus	118	CMD14	I/O	Program memory Data bus
35	VCC35		Power supply	119	VCC119		Power supply
36	GND36		Ground	120	GND115		Ground
37	SMD8	I/O	Wave memory data bus	121	CMD1	I/O	Program memory Data bus
38	SMD7	I/O	Wave memory data bus	122	CMD15	I/O	Program memory Data bus
39	SMD0	I/O	Wave memory data bus	123	CMD0	I/O	Program memory Data bus
40	SMD15	I/O	Wave memory data bus	124	CMA21	O	Program address bus
41	SOE	O	read signal	125	PDT15	I/O	SWX access data bus
42	SWE	O	write signal	126	PDT14	I/O	SWX access data bus
43	SRAS	O	RAS signal	127	PDT13	I/O	SWX access data bus
44	SCAS	O	CAS signal	128	PDT12	I/O	SWX access data bus
45	REFRESH	O	REFRESH signal	129	PDT11	I/O	SWX access data bus
46	CS0	O	CS signal	130	PDT10	I/O	SWX access data bus
47	SMA0	O	Memory address bus	131	PDT9	I/O	SWX access data bus
48	SMA16	O	Memory address bus	132	PDT8	I/O	SWX access data bus
49	VCC49		Power supply	133	VCC133		Power supply
50	GND50		Ground	134	GND134		Ground
51	SMA1	O	Memory address bus	135	PDT7	I/O	SWX access data bus
52	SMA15	O	Memory address bus	136	PDT6	I/O	SWX access data bus
53	SMA2	O	Memory address bus	137	PDT5	I/O	SWX access data bus
54	SMA14	O	Memory address bus	138	PDT4	I/O	SWX access data bus
55	SMA3	O	Memory address bus	139	PDT3	I/O	SWX access data bus
56	SMA13	O	Memory address bus	140	PDT2	I/O	SWX access data bus
57	SMA4	O	Memory address bus	141	PDT1	I/O	SWX access data bus
58	SMA12	O	Memory address bus	142	PDT0	I/O	SWX access data bus
59	SMA5	O	Memory address bus	143	VCA143		Power supply
60	GND60		Ground	144	GND144		Ground
61	VCC61		Power supply	145	PAD2	I	SWX access address bus
62	SMA11	O	Memory address bus	146	PAD1	I	SWX access address bus
63	SMA6	O	Memory address bus	147	PAD0	I	SWX access address bus
64	SMA10	O	Memory address bus	148	VCC148		Power supply
65	SMA7	O	Memory address bus	149	GND149		Ground
66	SMA9	O	Memory address bus	150	PCS	I	Chip select
67	SMA17	O	Memory address bus	151	PWR	I	write enable
68	SMA8	O	Memory address bus	152	PRD	I	read enable
69	SMA18	O	Memory address bus	153	RXD0	I	for Midi or TO-HOST
70	SMA19	O	Memory address bus	154	RXD1	I	for Midi or Key scan
71	SMA20	O	Memory address bus	155	SCLKI	I	EXT Clock
72	SMA21	O	Memory address bus	156	ADIN	I	A/D converter
73	SMA22	O	Memory address bus	157	ADLR	O	A/D converter LR clock
74	SMA23	O	Memory address bus	158	DO0	O	DAC
75	CMA20	O	Program address bus	159	DO1	O	DAC
76	CMA19	O	Program address bus	160	SYSCLK	O	1/2 clock
77	VCC77		Power supply	161	VCC161		Power supply
78	GND78	O	Ground	162	GND162		Ground
79	CMA18	O	Program address bus	163	WCLK	O	for DAC LR clock
80	CMA17	O	Program address bus	164	QCLK	O	1/12 clock
81	CMA5	O	Program address bus	165	BCLK	O	IIS-DAC clock
82	CMA6	O	Program address bus	166	SYI	I	Synch signal
83	CMA4	O	Program address bus	167	IRQ0	I	Interrupt request
84	CMA7	O	Program address bus	168	NMI	I	Interrupt request

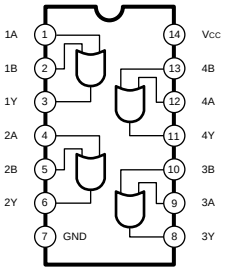
● S6A0069X10-Q0RJ (XV226A00) LCD DRIVER

LCD : IC701

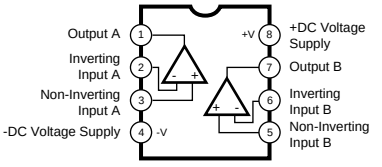
PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	S22	O	Segment signal output for LCD driving	41	DB2	I/O	Data interface
2	S21	O		42	DB3	I/O	
3	S20	O		43	DB4	I/O	
4	S19	O		44	DB5	I/O	
5	S18	O		45	DB6	I/O	
6	S17	O		46	DB7	I/O	
7	S16	O		47	C1	O	Common signal output for LCD driving
8	S15	O		48	C2	O	
9	S14	O		49	C3	O	
10	S13	O		50	C4	O	
11	S12	O		51	C5	O	
12	S11	O		52	C6	O	
13	S10	O		53	C7	O	
14	S9	O		54	C8	O	
15	S8	O		55	C9	O	
16	S7	O		56	C10	O	
17	S6	O		57	C11	O	
18	S5	O		58	C12	O	
19	S4	O		59	C13	O	
20	S3	O		60	C14	O	
21	S2	O		61	C15	O	
22	S1	O		62	C16	O	
23	Vss		Ground	63	S40	O	Segment signal output for LCD driving
24	OSC1	I	Oscillator	64	S39	O	
25	OSC2	O	Oscillator	65	S38	O	
26	V1		Power supply	66	S37	O	
27	V2			67	S36	O	
28	V3			68	S35	O	
29	V4			69	S34	O	
30	V5			70	S33	O	
31	CLK1	O	Data latch clock	71	S32	O	
32	CLK2	O	Data shift clock	72	S31	O	
33	Vdd		Power supply (+5 V)	73	S30	O	
34	M	O	Altamated signal for LCD driver outout	74	S29	O	
35	D	O	Display data interface	75	S28	O	
36	RS	I		76	S27	O	
37	R/W	I	Read/write	77	S26	O	
38	E	I	Enable	78	S25	O	
39	DB0	I/O	Data interface	79	S24	O	
40	DB1	I/O	Data interface	80	S23	O	

■ IC BLOCK DIAGRAM

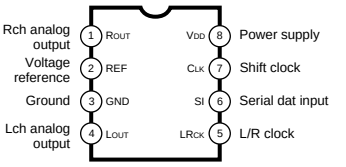
● **TC74HCT08AF(EL)** (XZ012A00)
MM74HCT08SJX (XZ013A00)
Quad 2 Input AND
DM : IC602



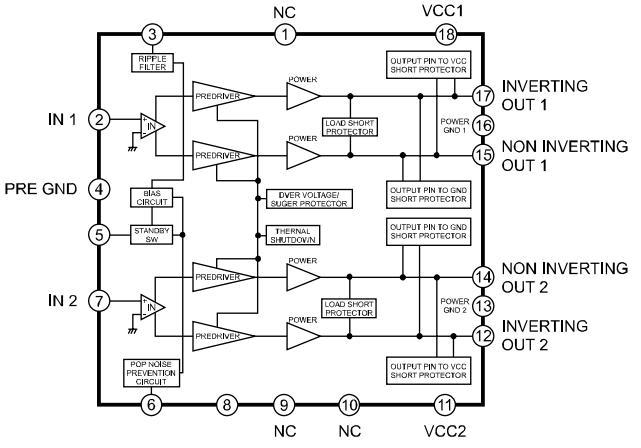
● **µPC4570C** (XC520A00)
Dual Operational Amplifier
DM : IC502



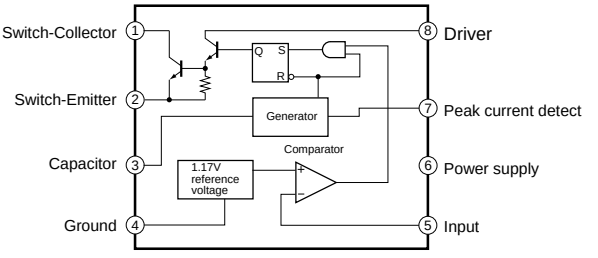
● **µPD6379AGR** (XR998A00)
D/A Converter
DM : IC501



● **LA4705NA** (XQ619A00)
Power Amplifier
AM : IC801



● **M5291P** (XV856A00)
DC-DC Converter
AM : IC902

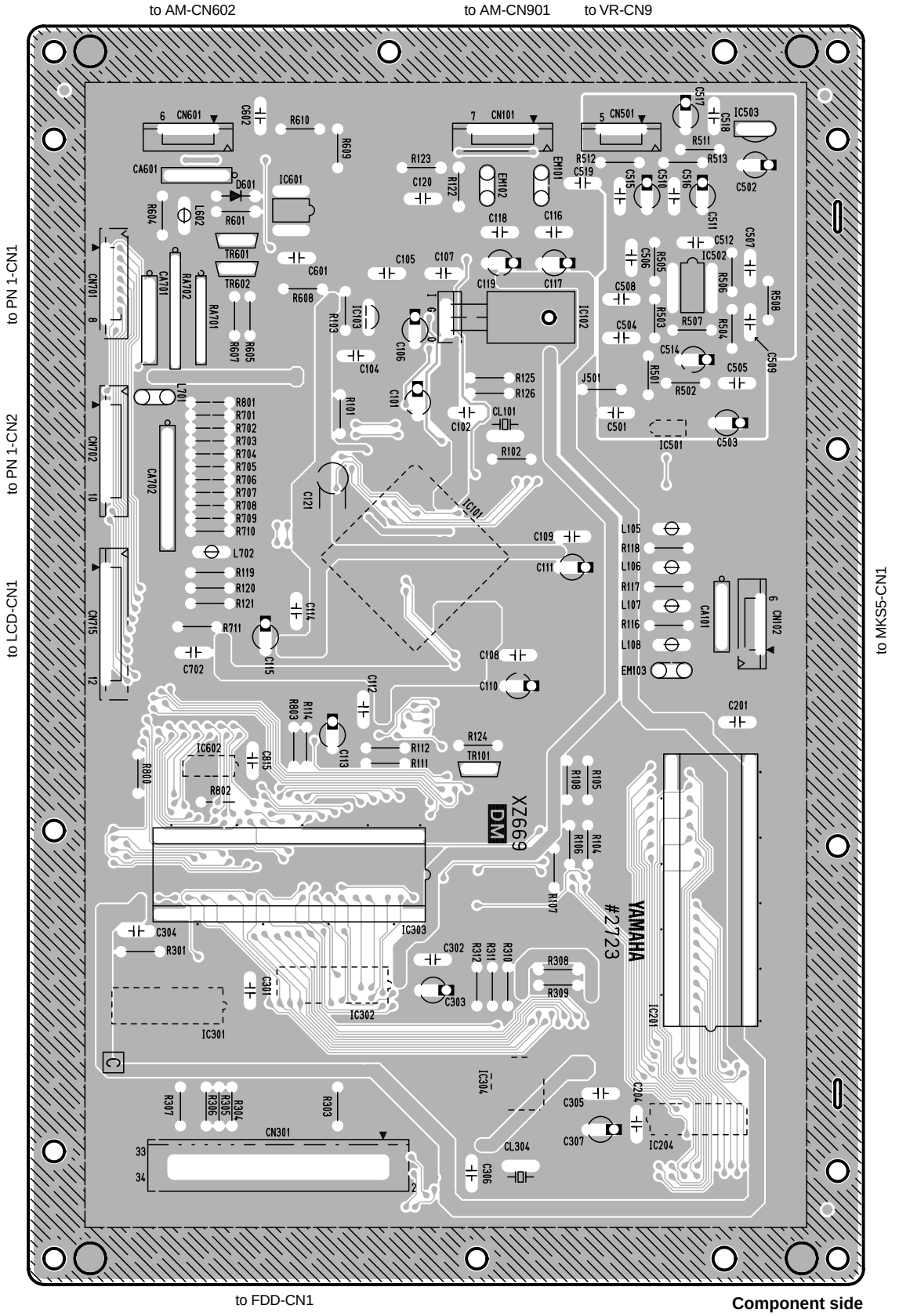


■ CIRCUIT BOARDS INDEX

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

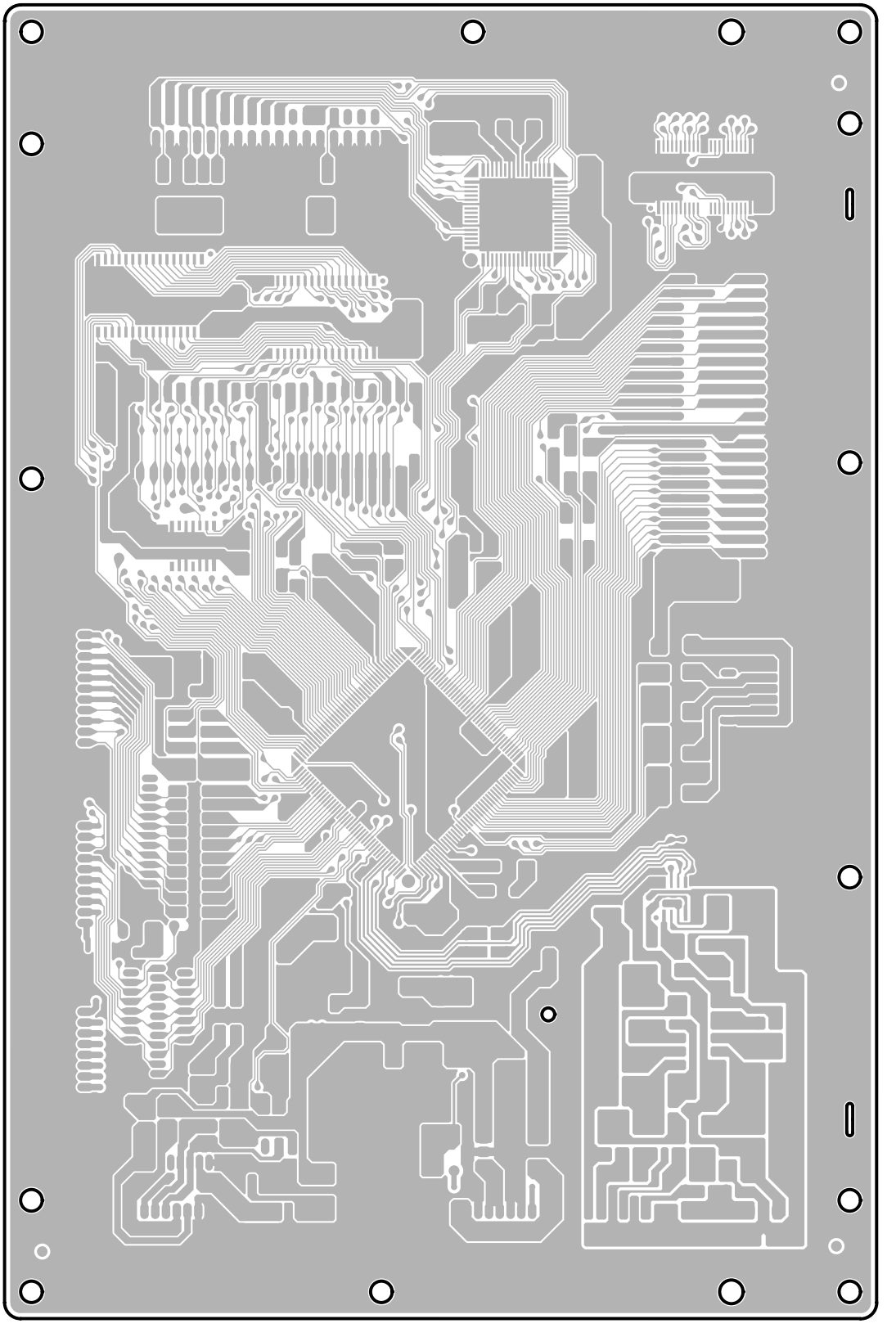
■ CIRCUIT BOARDS

● DM Circuit Board



2NA-V701660 ⚠1

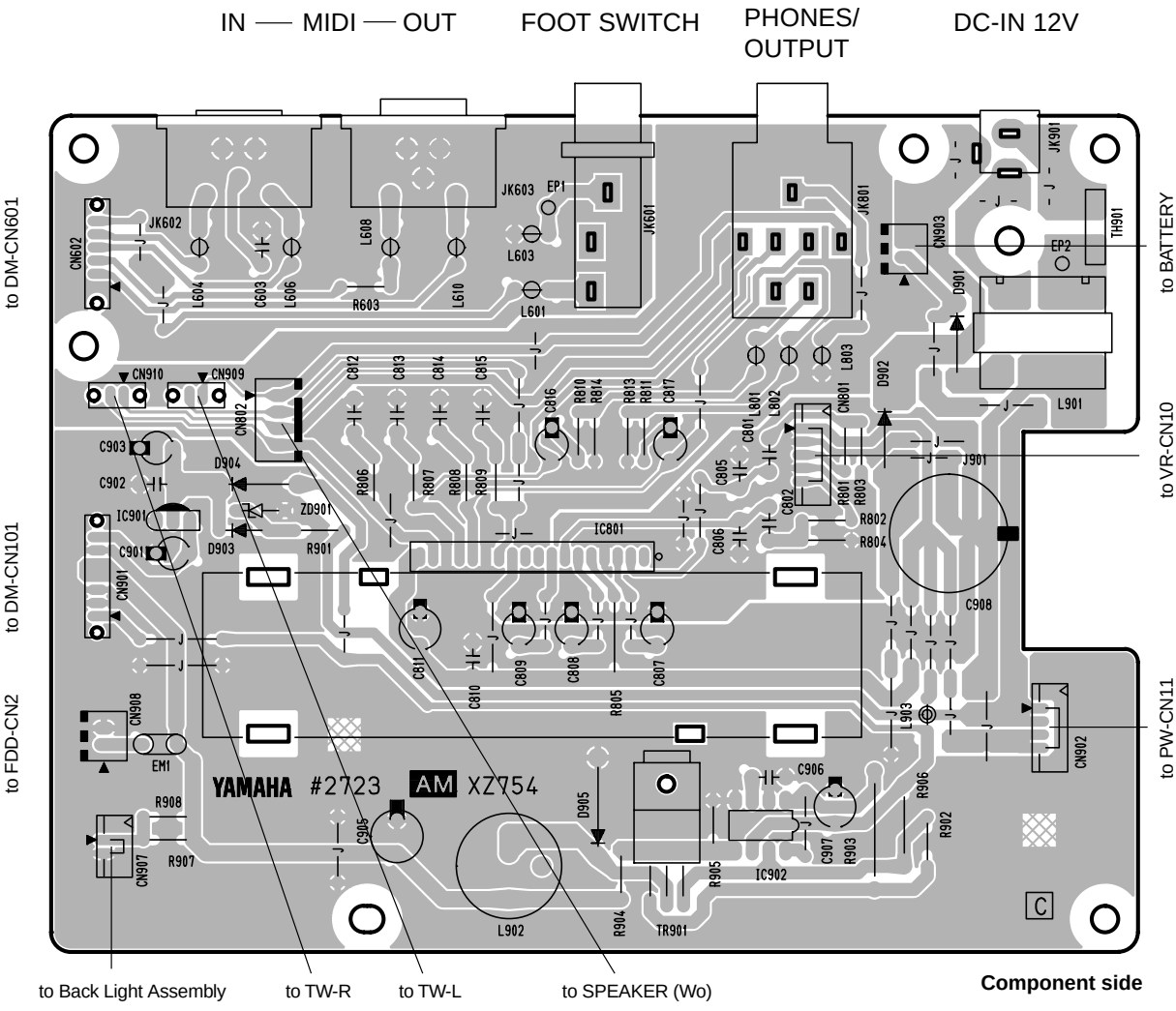
● DM Circuit Board



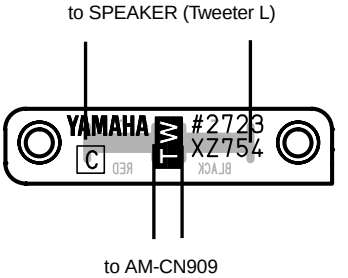
Pattern side

2NA-V701660 1

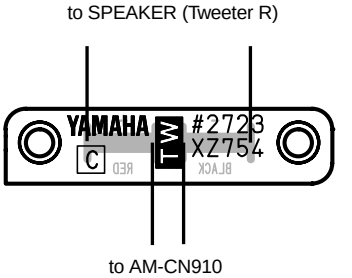
● AM Circuit Board



● TW Circuit Board (TW-L)

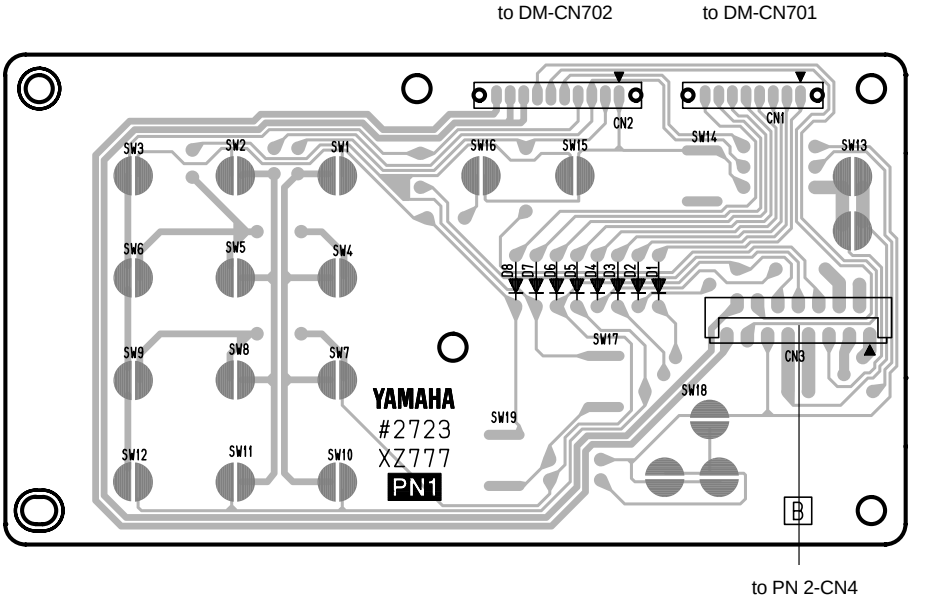


● TW Circuit Board (TW-R)



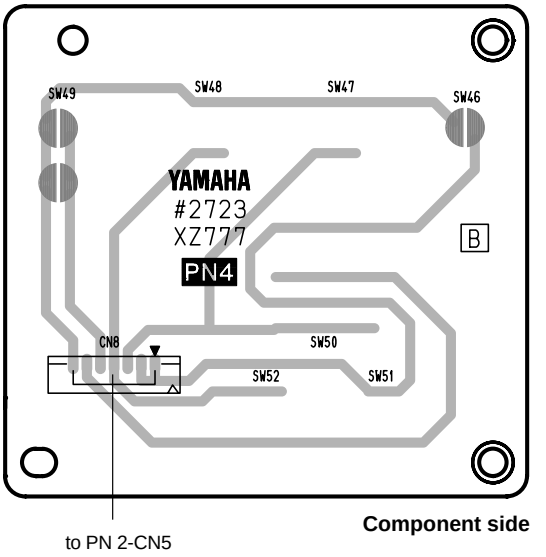
AM, TW : 2NA-V701670 △2

● PN 1 Circuit Board



Component side

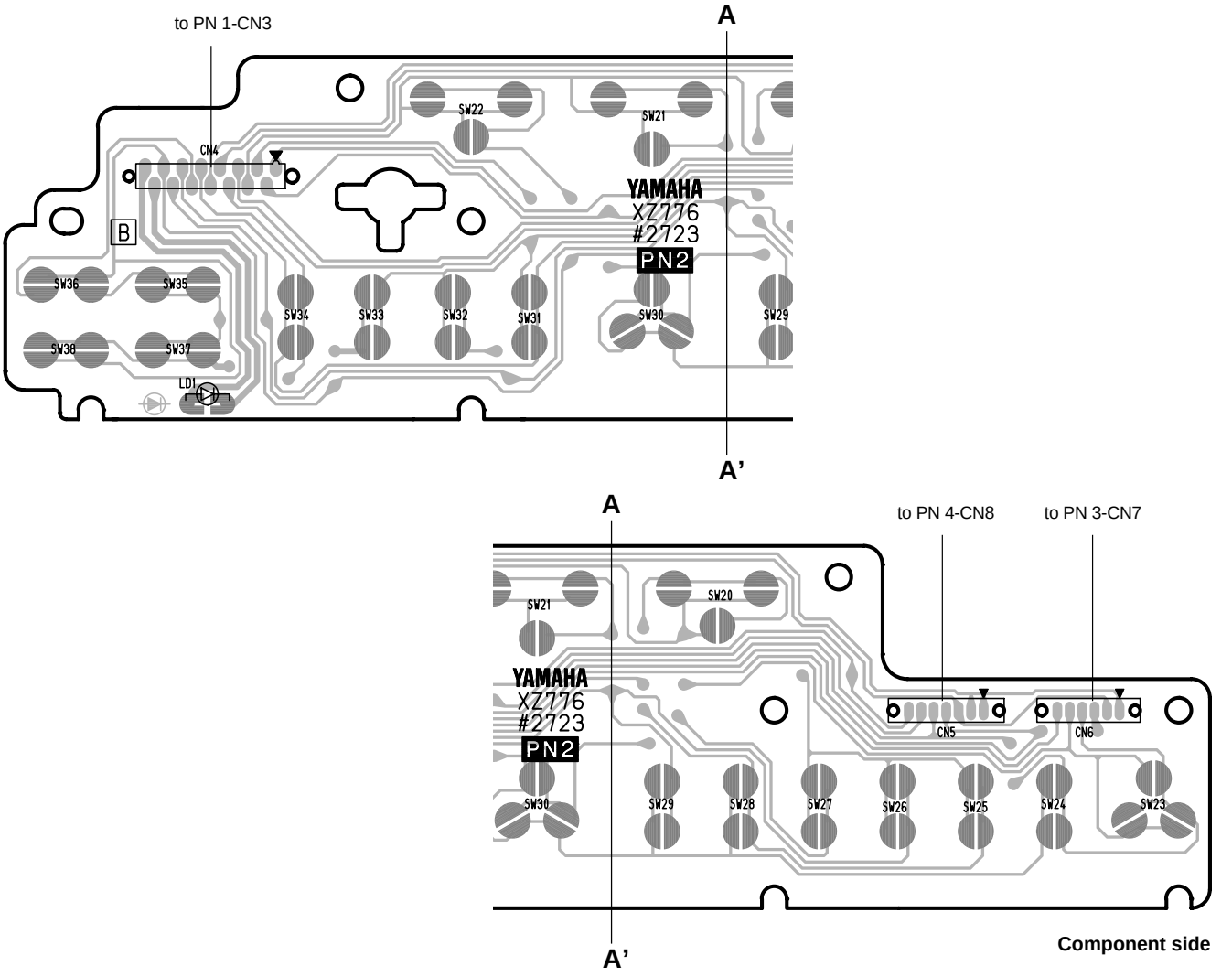
● PN 4 Circuit Board



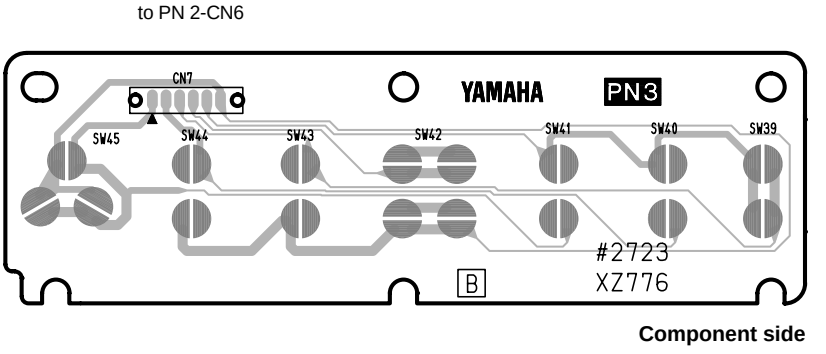
Component side

PN 1, PN 4 : 2NA-V701690

● PN 2 Circuit Board

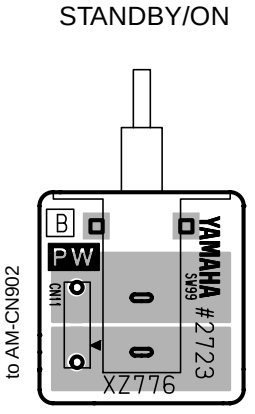


● PN 3 Circuit Board



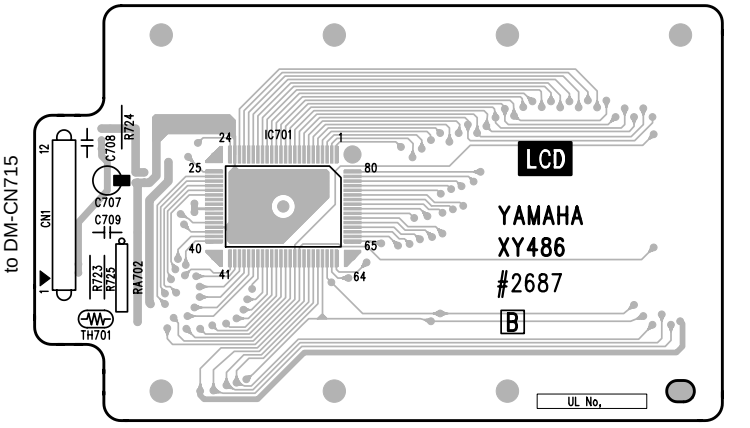
PN 2, PN 3 : 2NA-V701680 (2)

● PW Circuit Board



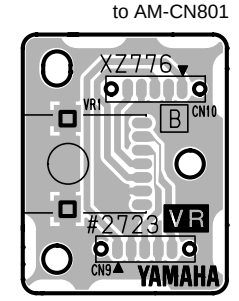
Component side

● LCD Circuit Board



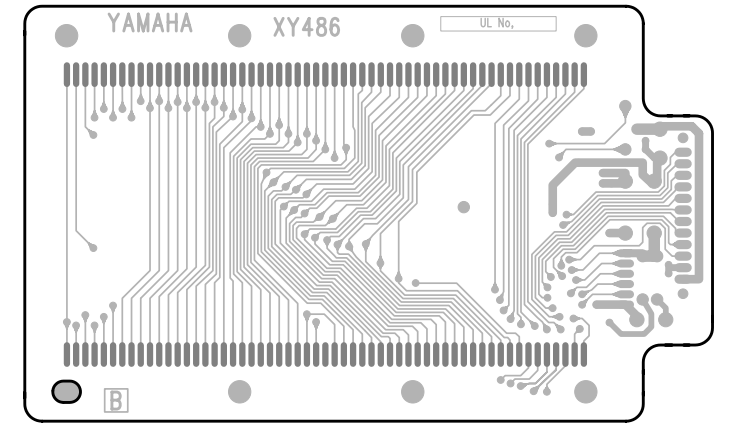
Component side

● VR Circuit Board



MASTER VOLUME

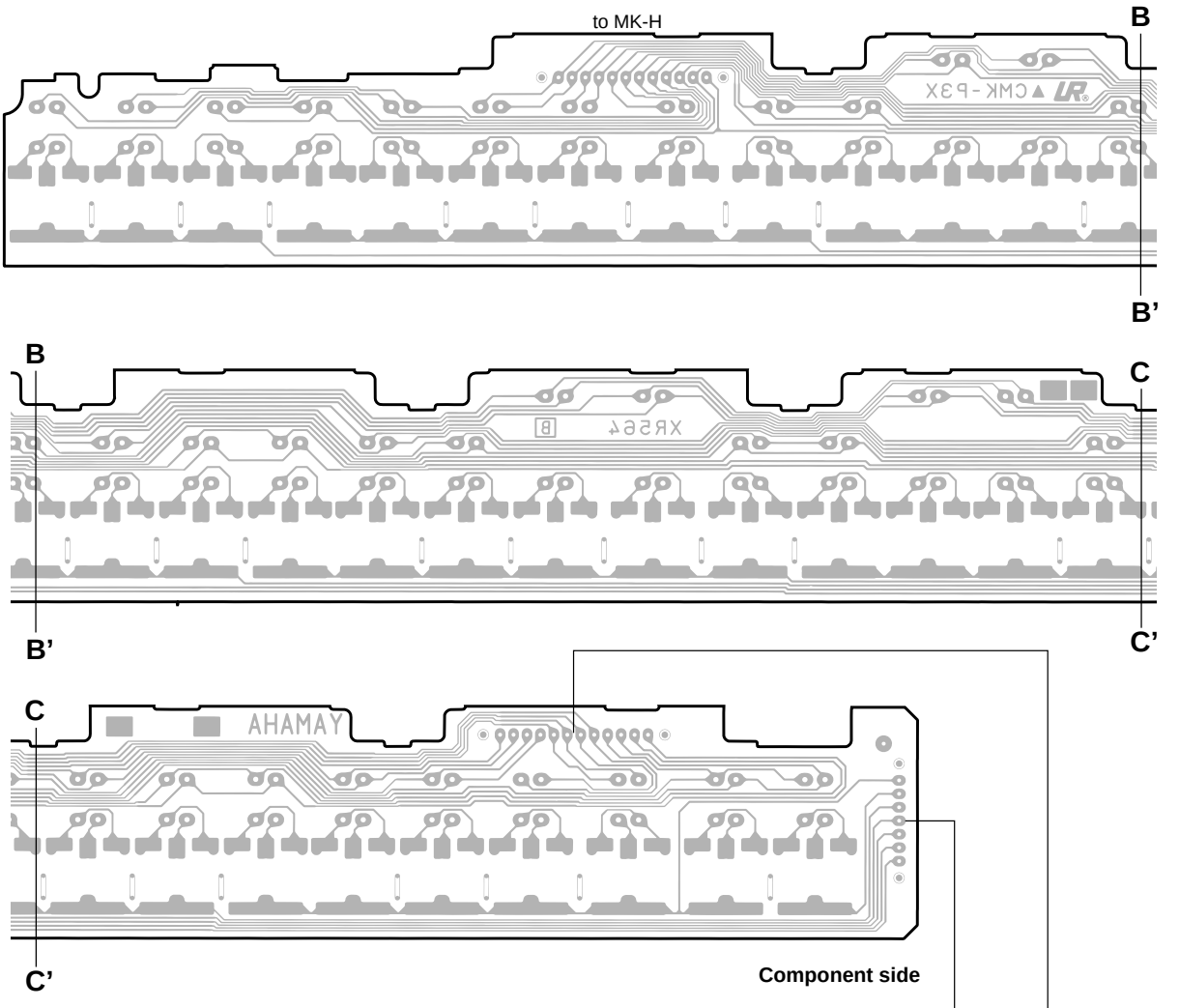
Component side



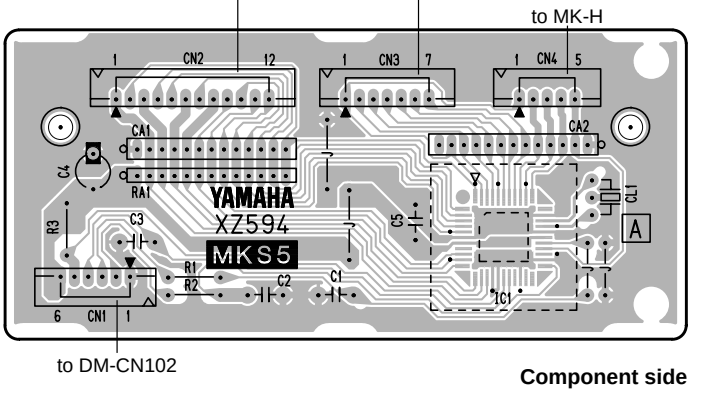
Pattern side

PW, VR : 2NA-V701680 ⚠2
LCD : 2NA-V701700

● MK-L Circuit Board

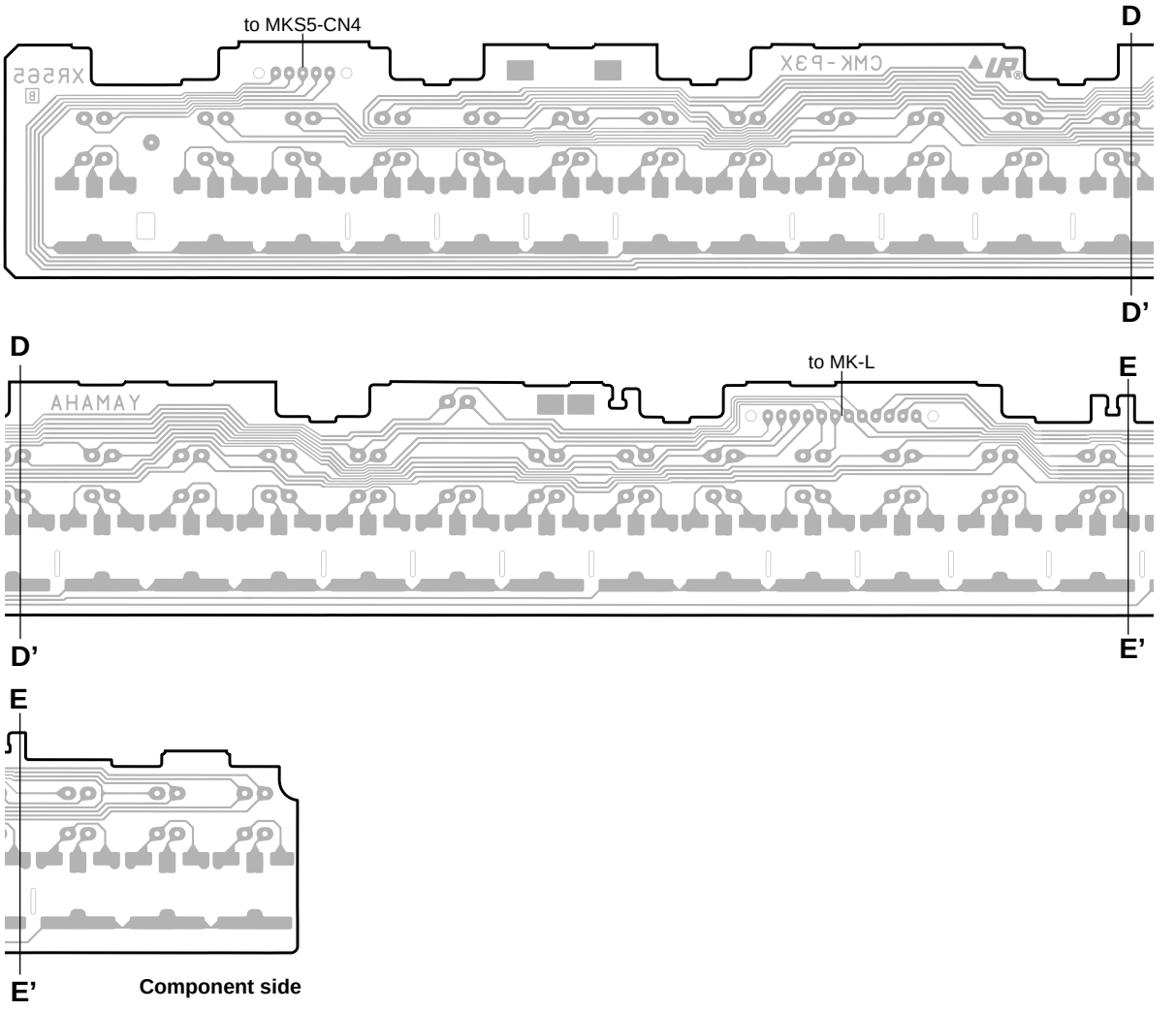


● MKS5 Circuit Board



MK-L : 2NA-VV58380
MKS5 : ZNAKZ-V679750 △1

● MK-H Circuit Board



■ TEST PROGRAM

1. PREPARATION

1) PA-5C (AC adaptor) is used.
2) The volume is usually moved to the use position when no volume change is required.
3) Measuring instruments : frequency counter, level meter (with JIS-C filter)
   Note : Connect a stereo plug to the [PHONES/OUTPUT] jack at 33 ohms.
4) Jigs : foot switch, MIDI cable, floppy disk (2HD & 2DD)

2. HOW TO ENTER THE TEST PROGRAM

MANUAL MODE :

While pressing the C2#, F2 and G2# keys, turn the [STANDBY/ON] switch on.

3. PROCEEDING THROUGH THE TEST PROGRAM

MANUAL MODE :

1) When the test program is started, "TEST" appears on the LCD.
2) Select the test program item to be executed by pressing the [-/NO] or [+/YES] button.
3) Press the [START/STOP] button to execute testing.

- When the test result is OK, press the [START/STOP] button to return to the test item name on display. Proceed to the next test by pressing the [-/NO] or [+/YES] button.
- When the test result is OK, a cursor (_) is added under the first character of the test item name on display.
- When the test result is NG, press the [DEMO] button or the lowest (leftmost) white key on the keyboard to return to the test item name on display and then turn off the [STANDBY/ON] switch to end the test program.

4. TEST PROGRAM LIST

TEST No.	LCD (initial)	Test Functions and Judgment Criteria
1	001Version	Displays ROM version. ROM (Program, Wave) versions are displayed alternately on the LCD.
2	002Rom Chk1	Checks the ROM. The test results appear on the LCD.
3	003Ram Chk1	Checks all the RAMs that are connected to the CPU. The test results appear on the LCD.
4	004WRomChk1	Checks the WAVE ROMs that are connected to the CPU. The test results appear on the LCD.
5	005WRamChk1	Checks the WAVE RAMs that are connected to the CPU. The test results appear on the LCD.
7	007FDD Chk	Insert the floppy disks one by one (2DD and 2HD). Checks the floppy disk drive unit
11	011TG1 Chk	Outputs the sine wave by changing the channels in sequence from C2 to G4. After auto-scaling is finished, individual keys can be played. (If playing two or more keys simultaneously, the first pressed key has priority to make a sound.)
13	013Pit Chk	Connect the frequency counter to the [PHONES] jack. Sets PAN to Center and produces a signal at 440.0 Hz +/- 1.76 Hz Check that the correct signal is produced.
14	014Output R	Connect the level meter (with a JIS-C filter) to the [PHONES] jack. (33 ohm load) Set the [MASTER VOLUME] at maximum and check the output level (1 kHz). **PHONES L :** less than -45.0 dBm **PHONES R :** -6.0 dBm +/- 2 dB
15	015Output L	Connect the level meter (with a JIS-C filter) to the [PHONES] jack. (33 ohm load) Set the [MASTER VOLUME] at maximum and check the output level (1 kHz). **PHONES L :** -6.0 dBm +/- 2 dB **PHONES R :** less than -45.0 dBm
19	019Noise	Connect the level meter (with a JIS-C filter) to the [PHONES] jack. (33 ohm load) Set the [MASTER VOLUME] at maximum. Check D/A converter noise. **PHONES L/R :** Less than -75.0 dBm

TEST No.	LCD (initial)	Test Functions and Judgment Criteria
20	020SW Chk	Check the switches on the panel. Press the switches on the LCD as instructed. A pre-assigned note is output when the switch is pressed. (See table 1.) As the check result appears on the LCD when all the switches are pressed as instructed,. Check that OK is displayed. (To stop this check before reaching its end, press the lowest (leftmost) white key on the keyboard to return to the test item name on display.
21	021LED On	Check that the all LEDs on the panel are on.
28	028LCD On	Check that all LCD dots are on.
29	029LCD Off	Check that all LCD dots are off.
31	031PD1 Chk	Connect the foot switch (FC-4 or FC-5) to the [FOOT SWITCH] jack. Check that the C3 note is output when the [START/STOP] button is pressed while stepping the pedal and the C4 note is output when releasing the pedal. The sound stops when stepping the pedal again.
37	037MIDI Chk	After connecting the [MIDI IN] jack and [MIDI OUT] jack with a MIDI cable, execute the test. Check that the C4 note is output and that the test results appear on the LCD.
40	040Battery	Removing the AC adapter sets to the Battery Check mode. (In advance, install the batteries.) The A/D value of the battery is detected and displayed with hexadecimal number on the LCD.
41	041Rom Chk2	Checks the ROMs that are connected to the CPU. The test results appear on the LCD.
42	042Ram Chk2	Checks the RAMs that are connected to the CPU. The test results appear on the LCD.
43	043WRomChk2	Checks the WAVE ROM. The test results appear on the LCD.
44	044WRamChk2	Checks the WAVE RAM. The test results appear on the LCD.
46	046BackUp 2	Performs the RAM back-up check. Check that the display reads “NG,” then turn off the power switch. (A time of the beginnings surely becoms NG.) Enter the test program and perform the RAM back-up checks, then check again. Check that the LCD displays “OK.”
47	047Factory	All the RAMs are initialized and set to the factory preset data when executing this test.
48	048TestExit	Exit from the test program after executing this test.

*** NOTE :** The above tests **Nos. 41-46**, require approximately 25 minutes to conduct.
If the time is not available to perform the tests, proceed the test No.47 by pressing several the [+/YES] button.

● TABLE 1

ORDER	SWITCH	LCD	NOTE
1	DEMO	Demo	C2
2	TOUCH	Touch	C#2
3	HARMONY	Harmony	D2
4	Dict.	Dict	D#2
5	LESSON L	Lesson L	E2
6	LESSON R	Lesson R	F2
7	MENU-L	Menu-L	F#2
8	MENU-R	Menu-R	G2
9	DUAL	Dual	G#2
10	SETTING ▼	Setti DW	A2
11	SETTING ▲	Setti UP	A#2
12	PORTABLE GRAND	Portable	B2
13	METORONOME	Metro	C3
14	DJ	DJ	C#3
15	(Tenkey) 1	Tenkey 1	D3
16	(Tenkey) 2	Tenkey 2	D#3
17	(Tenkey) 3	Tenkey 3	E3
18	(Tenkey) 4	Tenkey 4	F3
19	(Tenkey) 5	Tenkey 5	F#3
20	(Tenkey) 6	Tenkey 6	G3
21	(Tenkey) 7	Tenkey 7	G#3
22	(Tenkey) 8	Tenkey 8	A3
23	(Tenkey) 9	Tenkey 9	A#3
24	(Tenkey) -	Tenkey -	B3
25	(Tenkey) 0	Tenkey 0	C4
26	(Tenkey) +	Tenkey +	C#4
27	SONG	Song	D4
28	STYLE	Style	D#4
29	VOICE	Voice	E4
30	ACMP ON/OFF	Accomp	F4
31	SYNC STOP	S.Stop	F#4
32	SYNC START	S.Start	G4
33	START/STOP	Str/Stp	G#4
34	INTRO/ENDING	Intro	A4
35	MAIN/AUTOFILL	Main/Fil	A#4
36	TEMPO/TAP	Temp/TAP	B4
37	RECORD	Record	C5
38	Track 1	Tr1	C#5
39	Track 2	Tr2	D5
40	Track 3	Tr3	D#5
41	Track 4	Tr4	E6
42	Track 5	Tr5	F6
43	Track A	ACMP	F#6
44	MUSIC DATABASE	MDB	G6
45	REGIST MEMORY	REG-Memo	G#6
46	REGIST 1	REG-1	A6
47	REGIST 2	REG-2	A#6
48	REGIST BANK	REG-BANK	B6
49	LOAD	Load	C7
50	SAVE	Save	C#7
51	EXECUTE	Execute	D7
52	UTILITY	Utility	D#7

■ DATA BACKUP & INITIALIZATION

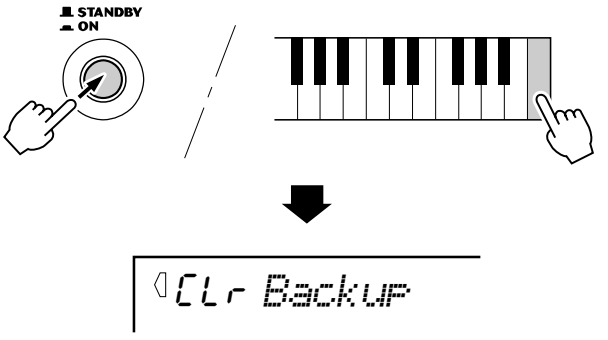
● Data Backup

Except for the data listed below, all PSR-350 panel settings are reset to their initial settings whenever the power is turned on. The data listed below are backed up —i.e. retained in memory — as long as an AC adaptor is connected or a set of batter-ies is installed.

- User Song Data
- Song Volume
- Registration Memory Data
- Registration Memory Bank Number
- Metronome Volume
- Touch On/Off
- Tuning
- Grade/Talking On/Off

● Data Initialization

All data can be initialized and restored to the factory preset condition by turning on the power while holding the highest (rightmost) white key on the keyboard. “CLr Backup” will appear briefly on the display.



⚠ CAUTION

- All Registration Memory and User song data, plus the other settings listed above, will be erased and/or changed when the data initialization proce-dure is carried out.
- Carrying out the data initializa-tion procedure will usually restore normal operation if the PSR-350 freezes or begins to act erratically for any reason.

■ MIDI IMPLEMENTATION CHART

YAMAHA [Portable Keyboard] Date:26-JAN-2001
Model PSR-350 MIDI Implementation Chart Version : 1.0

Function...		Transmitted	Recognized	Remarks
Basic	Default	1 - 16	1 - 16 *1	
Channel	Changed	1 - 16	1 - 16 *1	
Mode	Default	3	3	
	Messages	x	x	
	Altered	**********	x	
Note Number	:True voice	0 - 127 **********	0 - 127 0 - 127	
Velocity	Note ON	o 9nH,v=1-127	o 9nH,v=1-127	
	Note OFF	o 9nH,v=0	o 9nH,v=0 or 8nH	
After Touch	Key's	x	x	
	Ch's	x	x	
Pitch Bend		x	o	
Control Change	0,32	o	o	Bank Select
	1	x *2	o	Modulation wheel
	6,38	x *2	o	Data Entry
	7	o	o	Part Volume
	10	x	o	Pan
	11	x *2	o	Expression
	64	o	o	Sustain
	71	x *2	o	Harmonic Content
	72	x *2	o	Release Time
	73	x *2	o	Attack Time
	74	x *2	o	Brightness
	84	x *2	o	Portamento Cntrl
	91,93,94	x	o	Effect Depth
	96,97	x	o	RPN Inc,Dec
	100,101	x *2	o	RPN LSB,MSB
Prog Change	:True #	o 0 - 127 **********	o 0 - 127	
System Exclusive		o *3	o *3	
Common	:Song Pos.	x	x	
	:Song Sel.	x	x	
	:Tune	x	x	
System Real Time	:Clock	o	o	
	:Commands	o *4	o *4	
Aux	:All Sound OFF	x	o(120,126,127)	
	:Reset All Cntrls	x	o(121)	
	:Local ON/OFF	x	o(122) *5	
	:All Notes OFF	x	o(123-125)	
Mes- sages	:Active Sense	o	o	
	:Reset	x	x	

Mode 1 : OMNI ON , POLY Mode 2 : OMNI ON ,MONO o : Yes
Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF,MONO x : No

PORTATONE

PSR-350

PARTS LIST

■ CONTENTS

Notes : DESTINATION ABBREVIATIONS

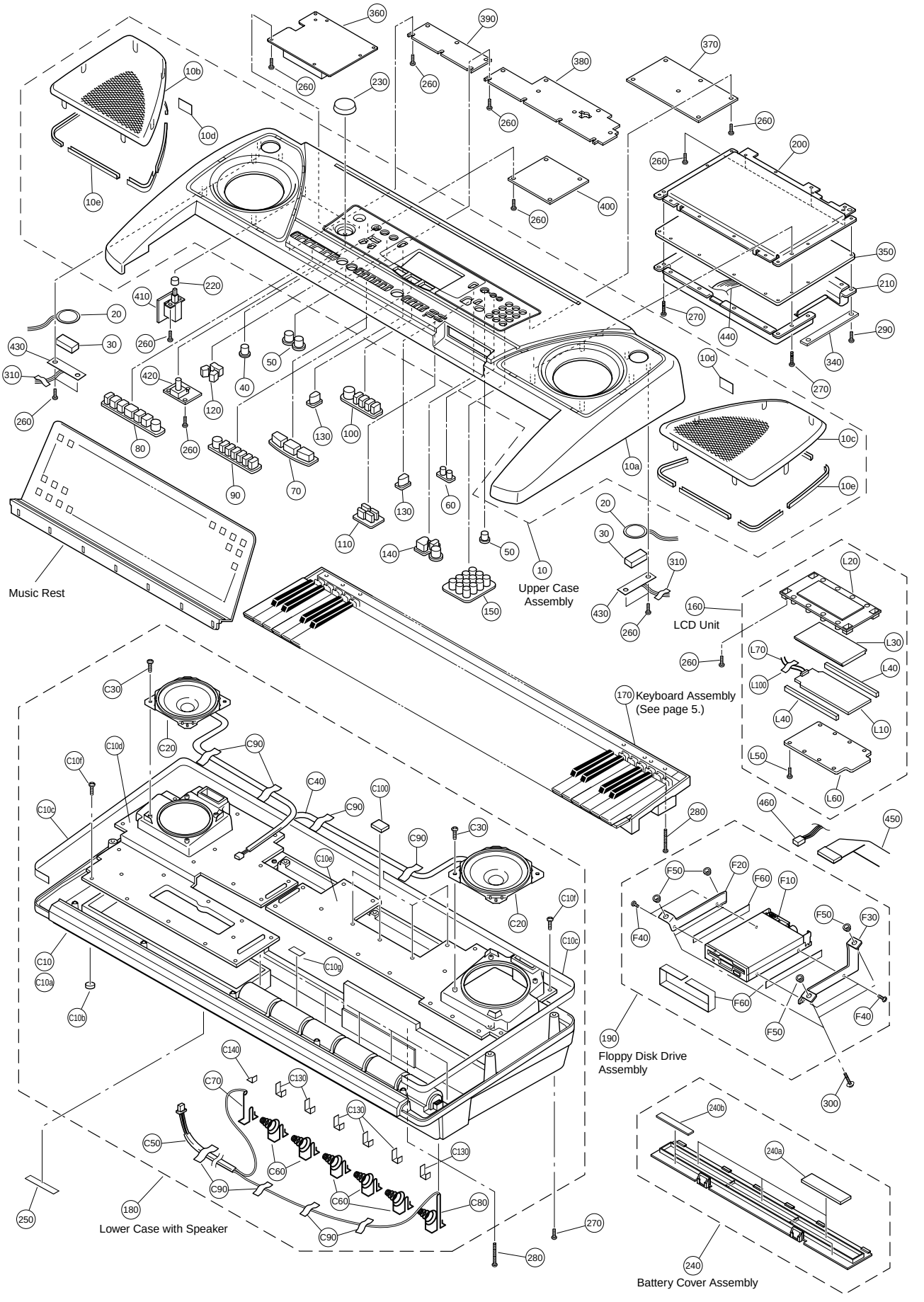
A :	Australian model	M :	South African model
B :	British model	O :	Chinese model
C :	Canadian model	Q :	South-east Asia model
D :	German model	T :	Taiwan model
E :	European model	U :	U.S.A. model
F :	French model	V :	General export model (110V)
H :	North European model	W:	General export model (220)
I :	Indonesian model	N,X :	General export model
J :	Japanese model	Y :	Export model

■ WARNING

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

- The numbers “QTY” show quantities for each unit.
- The parts with “--” in “**PART NO.**” are not available as spare parts.
- This mark “ } ” in the REMARKS column means these parts are interchangeable.
- The second letter of the shaded ( ) part number is O, not zero.
- The second letter of the shaded ( ) part number is I, not one.

■ OVERALL ASSEMBLY



	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		--	OVERALL ASSEMBLY			PSR-350 (V704580)		
*	10	V7049900	Upper Case Assembly					
	10a	--	Upper Case			(V705030)		
*	10b	V7005100	Speaker Grille	LEFT				
*	10c	V7005000	Speaker Grille	RIGHT				
	10d	VJ861500	Vibration-proof Tape	18X25			2	03
	10e	--	Dust Proof Cloth	0.5X95X8		(V706870)	12	
	20	X0159A00	Speaker	3.0cm		TWEETER	2	03
	30	--	Sponge			(V364550)	2	
*	40	V7028000	Panel Switch	x1 YELLOW		DEMO		
*	50	V7028100	Panel Switch	x1 BLACK		TOUCH,HARMONY,DIAL	3	
*	60	V7028200	Panel Switch	x2 BLACK		SETTING DOWN/UP		
*	70	V7028300	Panel Switch	x3 IVORY		SONG,STYLE,VOICE		
*	80	V7028400	Panel Switch	x7 D. GRAY/RED		ACCOMPANIMENT ON/OFF, SYNC. STOP, SYNC. START,		
*	90	V7028500	Panel Switch	x7 D. GRAY		STYLE START,INTRO/ENDING, MAIN AUTO FILL,TEMPO/TAP RECORD,SONG 1-5,A/CLEAR		
*	100	V7028600	Panel Switch	x5 BLACK/BLUE		MUSIC DATA BASE,BANK REGISTRATION MEMORY M/1,2		
*	110	V7028700	Panel Switch	x4 GRAY/BLUE		LOAD,SAVE,UTILITY,EXECUTE		
*	120	V7028800	Panel Switch	x3 GRAY		DICT.,LESSON-L/R		
*	130	V7028900	Panel Switch	x1 IVORY		REVERB,TRANSPOSE	2	
*	140	V7029000	Panel Switch	x3 GRAY		METRONOME,P. GRAND,DJ		
*	150	V7029200	Panel Switch	x12 BLACK		0-9,NO/-,YES/+		
	160	--	LCD Unit	W		(V708040)		
*	170	V7127100	Keyboard Assembly	16M C61 P2M				
	180	--	Lower Case with Speaker			(V705000)		
	190	--	Floppy Disk Drive Assembly	A		(V704320)		
	200	--	Shield Box	LOWER		(V702290)		
	210	--	Shield Box	UPPER		(V702300)		
	220	VQ218800	Knob	RED		STANDBY/ON		03
	230	VU432400	Knob	BLACK		MASTER VOLUME		01
*	240	V7042300	Battery Cover Assembly	PT				
	240a	--	Battery Cushion	WHITE		(V710060)	3	
	240b	--	Nonworen Fabric Cloth	10X70X0.5		(V781030)	2	
	250	--	Label	FE		(V704940)		
	260	EP600280	Bind Head Tapping Screw-P	3.0X8 MFZN2Y			49	01
	270	EP600300	Bind Head Tapping Screw-P	3.0X12 MFZN2Y			16	01
	280	VK228100	Bind Head Tapping Screw-P	3.0X25 MFZN2Y			6	01
	290	EP600250	Bind Head Tapping Screw-B	3.0X8 MFZN2Y			13	01
	300	V5115200	Sems Pan Head Screw	SW3.0X10			4	01
	310	VA126100	Adhesive Tape	12X50			19	03
	340	V5593500	Holder	97X9				01
*	350	V7016600	Circuit Board	DM				
*	360	V7224600	Circuit Board	AM				
*	370	V7022100	Circuit Board	PN1				
*	380	V7022200	Circuit Board	PN2				
*	390	V7022300	Circuit Board	PN3				
*	400	V7022400	Circuit Board	PN4				
*	410	V7022500	Circuit Board	PW				
*	420	V7022600	Circuit Board	VR				
*	430	V7224700	Circuit Board	TW			2	
	440	--	Connector Assembly	KB		(V718860)		
	450	V3819800	Connector Assembly	FDD FLAT CABLE				12
	460	--	Connector Assembly	FDPS XH-2P		(V718900)		
		--	LCD Unit	W		(V708040)		
	L10	V5265000	Back Light Assembly	B				07
	L20	V5339100	LCD Panel	TYPE-B				01
*	L30	V6968200	LCD	TYPE-W				
	L40	V3755900	Rubber Connector	SS-105L			2	01
	L40	V5415400	Rubber Connector	SS-105L			2	
	L50	EP600280	Bind Head Tapping Screw-P	3.0X8 MFZN2Y			8	01
*	L60	V7195300	Circuit Board	LCD				
	L70	--	Connector Assembly	BLT		(V718810)		
	L100	VA126100	Adhesive Tape	12X50				03
		--	Lower Case with Speaker			(V705000)		
*	C10	V7039200	Lower Case Assembly					

*: New Parts

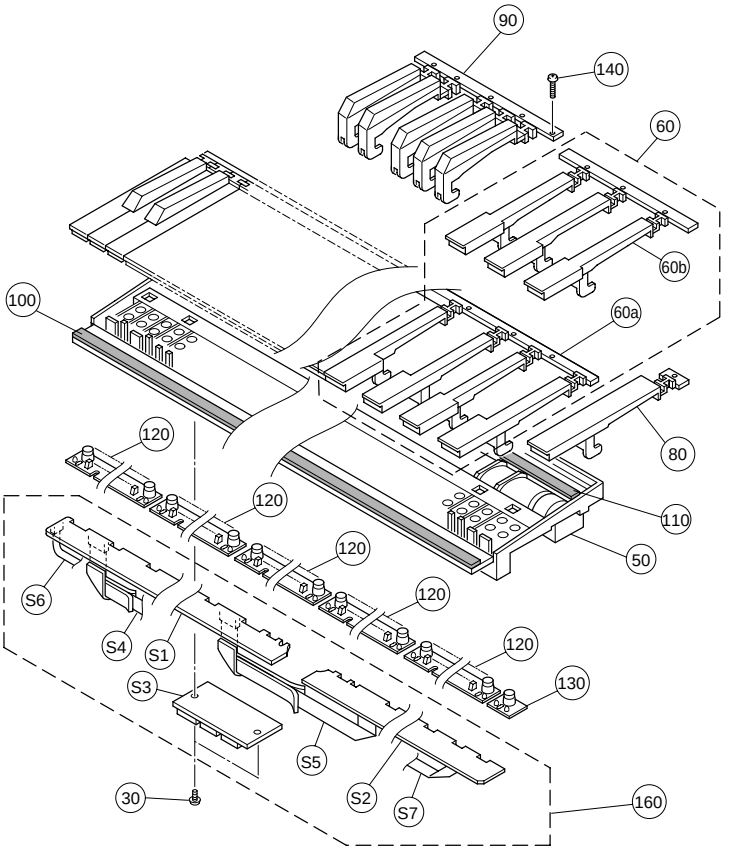
RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	C10a	--	Lower Case			(V705080)		
	C10b	CB043750	Foot	T1.6 BLACK			5	01
	C10c	--	Cushion	1X15X875		(V704140)	2	
	C10d	--	Speaker Box L			(V704110)		
	C10e	--	Speaker Box R			(V704120)		
	C10f	EP640500	Bind Head Tapping Screw-P	4.0X10 MFZN2Y			45	01
	C10g	--	Dust Proof Cloth			(V720600)	6	
	C20	XT278A00	Speaker	12.0cm 4 ohm 6W		WOOFER	2	06
	C30	VB931600	Bind Head Tapping Screw-P	4.0X8 MFZN2BL			8	01
	C40	--	Connector Assembly	SP XH-4P		(V718870)		
	C50	--	Connector Assembly	BAT XH-2P		(V705790)		
*	C60	V7060200	Spring Terminal				5	
*	C70	V7060500	Spring Terminal	(+)				
*	C80	V7060700	Spring Terminal	(-)				
	C90	VA126100	Adhesive Tape	12X50			11	03
	C100	VJ861500	Vibration-proof Tape	18X25			4	03
	C130	--	Nonworen Fabric Cloth	40X13X0.5		(V771130)	6	
	C140	--	Nonworen Fabric Cloth	13X13X0.5		(V771140)		
		--	Floppy Disk Drive Assembly	A		(V704320)		
	F10	V6492300	Floppy Disk Drive	3.5inch DF354H				13
	F20	--	Holder, FDD	LEFT		(V362620)		
	F30	--	Holder, FDD	RIGHT		(V362630)		
	F40	EG330150	Bind Head Screw	3.0X5 MFZN2Y			4	01
	F50	VA121600	Bushing				4	01
	F60	--	Adhesive Tape	ECT #590S W=15		(ZL35000)		
			ACCESSORIES					
		VU469500	Music Rest					07
*		V7051000	Floppy Disk	3.5 inch				
*		V7038200	Japanese Guide Sheet			J		
*		V7038300	Chinese Guide Sheet			O		
		VU113800	AC Adapter	PA-5C J		J		09
		VY944500	AC Adapter	PA-51 CH		O		

*: New Parts

RANK: Japan only

■ KEYBOARD ASSEMBLY



	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
*		**V7127100**	KEYBOARD ASSEMBLY	16M C61 P2M MKS5		PSR-350		
	30	**EP600280**	Bind Head Tapping Screw-P	3.0X8 MFZN2Y			2	01
	30	**EP630220**	Bind Head Tapping Screw-P	3.0X8 MFZN2BL			2	01
	50	**--**	Frame	C61		(VS15380)		
	50	**VU328600**	Frame	C61 16M				10
	50	**--**	Frame	C61 16M,L		(V676090)		
	60	**VH1809C0**	White Key	16L CEGDBFA			5	03
	60a	**--**	White Key	16L CEGB		(VH18090)	5	03
	60b	**--**	White Key	16L DFA		(VH18100)	5	03
	80	**VH181100**	White Key	16L C'				01
	90	**VH181200**	Black Key	16L #			5	03
	100	**VH181300**	Felt					03
	110	**VH181400**	Rubber Sheet					01
	120	**VU328400**	Rubber Contact	16M OCT 2M 12KEYS			5	06
	130	**VU328500**	Rubber Contact	16M C' 2M 1KEY				05
	140	**EP600310**	Bind Head Tapping Screw-P	3.0X16 MFZN2Y			21	01
	140	**VB205200**	Bind Head Tapping Screw-P	3.0X16 MFZN2BL			21	01
	140	**VS756700**	Bind Head Tapping Screw-P	3.0X16 MFZN2B			21	01
	150	**TX920280**	Grease	G-31KA 50g				10
	160	**--**	Circuit Board Assembly	MKS5 TY KBD SW		(V712720)		
	170	**--**	Nonworen Fabric Cloth	40X13X0.5		(V771130)		
		--	Circuit Board Assembly	MKS5 TY KBD SW		(V712720)		
	S1	**VV583800**	Circuit Board	MK-L				09
	S2	**VV583900**	Circuit Board	MK-H				09
*	S3	**V7112200**	Circuit Board	MKS5				
	S4	**VV583100**	Cable	MK-A 12P				03
	S5	**VV583600**	Cable	MK-B 12P				03
	S6	**VV583500**	Cable	MK-C 7P				03
	S7	**VV583700**	Cable	MK-D 5P				03
	S8	**--**	Sponge	A 16M		(VV61890)	2	
	S9	**--**	Sponge	B 16M		(VV61900)	2	
	S10	**--**	Adhesive Tape	C 12		(VV61910)		
	S11	**--**	Adhesive Tape	D 12		(VV61920)	3	

*: New Parts

RANK: Japan only

■ ELECTRICAL PARTS

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
			ELECTRICAL PARTS			PSR-350		
*		**V7224600**	Circuit Board	AM		(XZ754C0)		
*		**V7224700**	Circuit Board	TW		(XZ754C0)		
*		**V7016600**	Circuit Board	DM		(XZ669C0)		
*		**V7195300**	Circuit Board	LCD		(XY486B0)		
		VV583900	Circuit Board	MK-H		(XR565C0)		09
		VV583800	Circuit Board	MK-L		(XR564C0)		09
*		**V7112200**	Circuit Board	MKS5		(XZ594A0)		
*		**V7022100**	Circuit Board	PN1		(XZ777B0)		
*		**V7022400**	Circuit Board	PN4		(XZ777B0)		
*		**V7022200**	Circuit Board	PN2		(XZ776B0)		
*		**V7022300**	Circuit Board	PN3		(XZ776B0)		
*		**V7022500**	Circuit Board	PW		(XZ776B0)		
*		**V7022600**	Circuit Board	VR		(XZ776B0)		
*		**V7224600**	Circuit Board	AM		(XZ754C0)		
*		**V7224700**	Circuit Board	TW		(XZ754C0)		
		EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			3	01
		--	Jumper Wire	0.55		(VA07890)		
	C0603	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0801	**V6490000**	Monolithic Ceramic Cap.	1.000 25V Z				01
	C0802	**V6490000**	Monolithic Ceramic Cap.	1.000 25V Z				01
	C0805	**FG612470**	Ceramic Capacitor-B	470P 50V K				01
	C0806	**FG612470**	Ceramic Capacitor-B	470P 50V K				01
	C0807	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0808	**UR827330**	Electrolytic Cap.	33.00 10.0V				01
	C0809	**UR837220**	Electrolytic Cap.	22.00 16.0V				01
	C0810	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0811	**UR848100**	Electrolytic Cap.	100.00 25.0V				01
	C0812	**UA654470**	Mylar Capacitor	0.0470 50V J				01
	-0815	**UA654470**	Mylar Capacitor	0.0470 50V J				01
	C0816	**UR837470**	Electrolytic Cap.	47.00 16.0V				01
	C0817	**UR837470**	Electrolytic Cap.	47.00 16.0V				01
	C0901	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0902	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0903	**UR867100**	Electrolytic Cap.	10.00 50.0V				01
	C0905	**UR819100**	Electrolytic Cap.	1000 6.3V				01
	C0906	**FG612330**	Ceramic Capacitor-B	330P 50V K				01
	C0907	**UR848100**	Electrolytic Cap.	100.00 25.0V				01
	C0908	**UR749470**	Electrolytic Cap.	4700 25.0V				05
	CN602	**VI878400**	Cable Holder	51048 6P TE				01
	CN801	**VK024900**	Wire Trap	52147 5P TE				01
	CN802	**LB918040**	Base Post Connector	XH 4P TE				01
	CN901	**VI878500**	Cable Holder	51048 7P TE				01
	CN902	**VK024800**	Wire Trap	52147 4P TE				01
	CN903	**LB918020**	Base Post Connector	XH 2P TE				01
	CN907	**VK024600**	Wire Trap	52147 2P TE				01
	CN908	**LB918020**	Base Post Connector	XH 2P TE				01
	CN909	**VI878000**	Cable Holder	51048 2P TE				01
	CN910	**VI878000**	Cable Holder	51048 2P TE				01
	D0901	**VL723600**	Diode	20E1-FC4				01
	D0902	**VL723600**	Diode	20E1-FC4				01
	D0903	**VD631600**	Diode	1SS133,176,HSS104				01
	D0904	**VB481900**	Diode	11ES4				01
	D0905	**V2320300**	Diode	RK33				01
	EM001	**VD542700**	LC Filter	DSS306-93F223Z1				01
	HS001	**VV856400**	Heat Sink					05
	IC801	**XQ619A00**	IC	LA4705NA 17W BTL		POWER AMP. 17W		05
	IC901	**XT625A00**		S-81250SGY-Z		REGULATOR +5V		02
	IC902	**XV856A00**	IC	M5291P		DC-DC CONVERTER		03
	J0901	**--**	Jumper Wire	0.55		(VA07890)		
	JK601	**VB312600**	Phone Jack	YKB21-5012 BLACK		FOOT SWITCH		02
	JK602	**VJ107200**	DIN Connector	5P YKF51-5050		MIDI IN		01
	JK603	**VJ107200**	DIN Connector	5P YKF51-5050		MIDI OUT		01
	JK801	**LB101870**	Phone Jack	YKB21-5006		PHONES/OUTPUT		03
⚠	JK901	**LB302260**	Connector	HEC0470-01-630		DC IN 12V		02
	L0601	**VB835000**	Coil	FL5R200QNT 20uH				01
	L0603	**VB835000**	Coil	FL5R200QNT 20uH				01
	L0604	**VB835000**	Coil	FL5R200QNT 20uH				01
	L0606	**VB835000**	Coil	FL5R200QNT 20uH				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	L0608	**VB835000**	Coil	FL5R200QNT 20uH				01
	L0610	**VB835000**	Coil	FL5R200QNT 20uH				01
	L0801	**VB835000**	Coil	FL5R200QNT 20uH				01
	-0803	**VB835000**	Coil	FL5R200QNT 20uH				01
	L0901	**VI486800**	Line Filter	SU10VD-20020				03
	L0902	**VZ017900**	Coil	HP-022J 180uH				05
	L0903	**VN381200**	Coil	SNT-D20TF 10uH				03
	R0603	**HF455220**	Carbon Resistor	220.0 1/4 J				01
	R0801	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
	R0802	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
	R0803	**HF455470**	Carbon Resistor	470.0 1/4 J				01
	R0804	**HF455470**	Carbon Resistor	470.0 1/4 J				01
	R0805	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R0806	**HF453220**	Carbon Resistor	2.2 1/4 J				01
	-0809	**HF453220**	Carbon Resistor	2.2 1/4 J				01
	R0810	**HF455100**	Carbon Resistor	100.0 1/4 J				01
	R0811	**HF455100**	Carbon Resistor	100.0 1/4 J				01
	R0813	**HF455330**	Carbon Resistor	330.0 1/4 J				01
	R0814	**HF455330**	Carbon Resistor	330.0 1/4 J				01
	R0901	**HF456100**	Carbon Resistor	1.0K 1/4 J				01
	R0902	**HF455330**	Carbon Resistor	330.0 1/4 J				01
	R0903	**VC731200**	Metal Oxide Film Resistor	100.0 1W J				01
	R0904	**HF456390**	Carbon Resistor	3.9K 1/4 J				01
	R0905	**HF456120**	Carbon Resistor	1.2K 1/4 J				01
	R0906	**V3648000**	Metal Film Resistor	0.15 1W J				01
	R0907	**HF454560**	Carbon Resistor	56.0 1/4 J				01
	R0908	**HF454680**	Carbon Resistor	68.0 1/4 J				01
	TH901	**VV458000**	Protector Switch	RUE250 2.50A 30V		Overcurrent protection		03
	TR901	**V3795100**	Transistor	2SA2006 E,F				02
	WH002	**--**	Connector Assembly	PS		(V718820)		
	WH003	**--**	Connector Assembly	DJ		(V718830)		
	WH007	**--**	Connector Assembly	EP1		(V719460)		
	WH998	**--**	Connector Assembly	TW		(V718880)		
	WH999	**--**	Connector Assembly	TW		(V718880)		
	ZD901	**VG439500**	Zener Diode	MTZ J 10.0B 10.0V				01
*		**V7016600**	Circuit Board	DM		(XZ669C0)		
		EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL				01
	C0101	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0102	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0104	**FG652100**	Ceramic Capacitor-SL	100P 50V J				01
	C0105	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0106	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0107	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	-0109	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0110	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0111	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0112	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0113	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0114	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0115	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0116	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0117	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0118	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0119	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0120	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0121	**FG613100**	Ceramic Capacitor-B	1000P 50V K				01
	C0201	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0204	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0301	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0302	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0303	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0304	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	-0306	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0307	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0501	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0502	**UR818220**	Electrolytic Cap.	220.00 6.3V				01
	C0503	**UR837470**	Electrolytic Cap.	47.00 16.0V				01
	C0504	**FG613220**	Ceramic Capacitor-B	2200P 50V K				01
	C0505	**FG613220**	Ceramic Capacitor-B	2200P 50V K				01

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
C0506	**FG612220**	Ceramic Capacitor-B	220P 50V K				01
-0509	**FG612330**	Ceramic Capacitor-B	330P 50V K				01
C0510	**UR866470**	Electrolytic Cap.	4.70 50.0V				01
C0511	**UR866470**	Electrolytic Cap.	4.70 50.0V				01
C0512	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
C0514	**UR837470**	Electrolytic Cap.	47.00 16.0V				01
C0515	**FG652100**	Ceramic Capacitor-SL	100P 50V J				01
C0516	**FG652100**	Ceramic Capacitor-SL	100P 50V J				01
C0517	**UR867100**	Electrolytic Cap.	10.00 50.0V				01
C0518	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
C0519	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
C0601	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
C0602	**FG613100**	Ceramic Capacitor-B	1000P 50V K				01
C0702	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
C0815	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
CA101	**VH483900**	Ceramic Capacitor Array	100P 50V M				01
CA601	**VH483900**	Ceramic Capacitor Array	100P 50V M				01
CA701	**VH484100**	Ceramic Capacitor Array	100P 50V M				02
CA702	**VP755200**	Ceramic Capacitor Array	100P 50V K				02
CL101	**V2192500**	Ceramic Resonator	8.4672M CST8.46MT				01
CL304	**VK966200**	Ceramic Resonator	16.0M CST16.00MXW0				02
CN101	**VK025100**	Wire Trap	52147 7P TE				01
CN102	**VF728300**	Wire Trap	52147 6P TE				01
CN301	**VQ391300**	Connector	34P TE				03
CN301	**V3858700**	Connector Header	302A 34P TE				05
CN501	**VK024900**	Wire Trap	52147 5P TE				01
CN601	**VF728300**	Wire Trap	52147 6P TE				01
CN701	**VK025200**	Wire Trap	52147 8P TE				01
CN702	**VF728200**	Wire Trap	52147 10P TE				01
CN715	**VK025600**	Wire Trap	52147 12P TE				01
D0601	**VB941200**	Diode	1SS133,1SS176				01
EM101	**VD542700**	LC Filter	DSS306-93F223Z1				01
-103	**VD542700**	LC Filter	DSS306-93F223Z1				01
IC101	**XU947C00**	IC	HG73C205AFD		TONE GENERATOR (SWX00B)		09
IC102	**XT333A00**	IC	UPC29M33HF		REGULATOR +3.3V		03
IC103	**XR902A00**	IC	IC-PST591D-2		SYSTEM RESET		02
IC201	**XZ079100**	IC	MX23C3210PC-10		MASK ROM 32M WAVE		
IC204	**XT810A00**	IC	MSM514260C-60TS-K		DRAM 4M		16
IC204	**XW125A00**	IC	SDM4260CLTM-6S				08
IC301	**XT138A00**	IC	UPD431000AGW-70LL		SRAM 1M		07
IC301	**XV976A00**	IC	M5M51008CFP-70H				07
IC301	**XY909A00**	IC	UPD431000AGW				07
IC302	**XT138A00**	IC	UPD431000AGW-70LL		SRAM 1M		07
IC302	**XV976A00**	IC	M5M51008CFP-70H				07
IC302	**XY909A00**	IC	UPD431000AGW				07
* IC303	**XZ917100**	IC	K3N6C429LE-DC10		MASK ROM 32M PROGRAM		
IC304	**XI939A00**	IC	HD63266F		FDC		09
IC501	**XR998A00**	IC	UPD6379AGR		DAC		04
IC502	**XC520A00**	IC	UPC4570C		OP AMP		01
IC503	**XJ596A00**	IC	NJM78L05A		REGULATOR +5V		01
IC601	**VG181900**	Photo Coupler	PC-900V				03
IC602	**XZ012A00**	IC	TC74HCT08AF(EL)		AND		01
IC602	**XZ013A00**	IC	MM74HCT08SJX				01
IS201	**VK863100**	IC Socket	DICF-42CS-E				03
IS303	**VK863100**	IC Socket	DICF-42CS-E				03
J0501	**HF754100**	Carbon Resistor	10.0 1/4 J				01
L0105	**VB835000**	Coil	FL5R200QNT 20uH				01
-0108	**VB835000**	Coil	FL5R200QNT 20uH				01
L0602	**VB835000**	Coil	FL5R200QNT 20uH				01
L0701	**VD542700**	LC Filter	DSS306-93F223Z1				01
L0702	**VB835000**	Coil	FL5R200QNT 20uH				01
R0101	**HF757470**	Carbon Resistor	47.0K 1/4 J				01
R0102	**HF755220**	Carbon Resistor	220.0 1/4 J				01
R0103	**HF757100**	Carbon Resistor	10.0K 1/4 J				01
R0104	**HF754470**	Carbon Resistor	47.0 1/4 J				01
-0108	**HF754470**	Carbon Resistor	47.0 1/4 J				01
R0111	**HF754470**	Carbon Resistor	47.0 1/4 J				01
R0112	**HF754470**	Carbon Resistor	47.0 1/4 J				01
R0114	**HF754470**	Carbon Resistor	47.0 1/4 J				01
R0116	**HF757470**	Carbon Resistor	47.0K 1/4 J				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R0117	**HF758100**	Carbon Resistor	100.0K 1/4 J				01
	R0118	**HF758100**	Carbon Resistor	100.0K 1/4 J				01
	R0119	**HF754470**	Carbon Resistor	47.0 1/4 J				01
	-0121	**HF754470**	Carbon Resistor	47.0 1/4 J				01
	R0122	**HF757820**	Carbon Resistor	82.0K 1/4 J				01
	R0123	**HF757220**	Carbon Resistor	22.0K 1/4 J				01
	R0124	**HF757220**	Carbon Resistor	22.0K 1/4 J				01
	R0125	**HF754470**	Carbon Resistor	47.0 1/4 J				01
	R0126	**HF754470**	Carbon Resistor	47.0 1/4 J				01
	R0301	**HF757470**	Carbon Resistor	47.0K 1/4 J				01
	R0303	**HF756100**	Carbon Resistor	1.0K 1/4 J				01
	-0307	**HF756100**	Carbon Resistor	1.0K 1/4 J				01
	R0308	**HF757470**	Carbon Resistor	47.0K 1/4 J				01
	-0312	**HF757470**	Carbon Resistor	47.0K 1/4 J				01
	R0501	**HF756220**	Carbon Resistor	2.2K 1/4 J				01
	R0502	**HF756220**	Carbon Resistor	2.2K 1/4 J				01
	R0503	**HF757220**	Carbon Resistor	22.0K 1/4 J				01
	-0508	**HF757220**	Carbon Resistor	22.0K 1/4 J				01
	R0511	**HF755100**	Carbon Resistor	100.0 1/4 J				01
	R0512	**HF754470**	Carbon Resistor	47.0 1/4 J				01
	R0513	**HF754470**	Carbon Resistor	47.0 1/4 J				01
	R0601	**HF755220**	Carbon Resistor	220.0 1/4 J				01
	R0604	**HF755220**	Carbon Resistor	220.0 1/4 J				01
	R0605	**HF757100**	Carbon Resistor	10.0K 1/4 J				01
	R0607	**HF757220**	Carbon Resistor	22.0K 1/4 J				01
	R0608	**HF756270**	Carbon Resistor	2.7K 1/4 J				01
	R0609	**HF757470**	Carbon Resistor	47.0K 1/4 J				01
	R0610	**HF756100**	Carbon Resistor	1.0K 1/4 J				01
	R0701	**HF755220**	Carbon Resistor	220.0 1/4 J				01
	-0710	**HF755220**	Carbon Resistor	220.0 1/4 J				01
	R0711	**HF755180**	Carbon Resistor	180.0 1/4 J				01
	R0800	**HF757470**	Carbon Resistor	47.0K 1/4 J				01
	R0801	**HF755100**	Carbon Resistor	100.0 1/4 J				01
	R0802	**HF755220**	Carbon Resistor	220.0 1/4 J				01
	R0803	**HF754470**	Carbon Resistor	47.0 1/4 J				01
	RA701	**VF238600**	Resistor Array	RGLE8X473J				01
	RA702	**V3988800**	Resistor Array	RGLE6Y101J				
	TR101	**IC174070**	Transistor	2SC1740S R,S				01
	TR601	**IC174070**	Transistor	2SC1740S R,S				01
	TR602	**IC174070**	Transistor	2SC1740S R,S				01
*		**V7195300**	Circuit Board	LCD		(XY486B0)		
	C0707	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0708	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0709	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	CN001	**VI879000**	Cable Holder	51048 12P TE				01
	IC701	**XV226A00**	IC	S6A0069X10-Q0RJ		LCD DRIVER		05
	IC701	**--**	IC	ML9040A-B01GA		(XZ987A0)		
	IC701	**--**	IC	NJU6468FC2-00		(X0121A0)		
	R0723	**HF755220**	Carbon Resistor	220.0 1/4 J				01
	R0724	**HF757910**	Carbon Resistor	91.0K 1/4 J				01
	R0725	**HF754680**	Carbon Resistor	68.0 1/4 J				01
	RA702	**V5302400**	Resistor Array	RGLE5V222J				01
	TH701	**VR346900**	Thermistor	ERTD2FGJ801S 800				03
	WH200	**--**	Connector Assembly	LCD		(V718800)		
		VV583900	Circuit Board	MK-H		(XR565C0)		09
		VK025600	Wire Trap	52147 12P TE				01
		VK024900	Wire Trap	52147 5P TE				01
		VV437800	Diode	1N4148(DO-34)				01
		VV583800	Circuit Board	MK-L		(XR564C0)		09
		VK025600	Wire Trap	52147 12P TE				01
		VK025100	Wire Trap	52147 7P TE				01
		VV437800	Diode	1N4148(DO-34)				01
*		**V7112200**	Circuit Board	MKS5		(XZ594A0)		
		--	Vibration-proof Tape	10X64X0.5		(VK34680)		
		--	Jumper Wire	0.55		(VA07890)		
	C1	**FG651220**	Ceramic Capacitor-SL	22P 50V J				01

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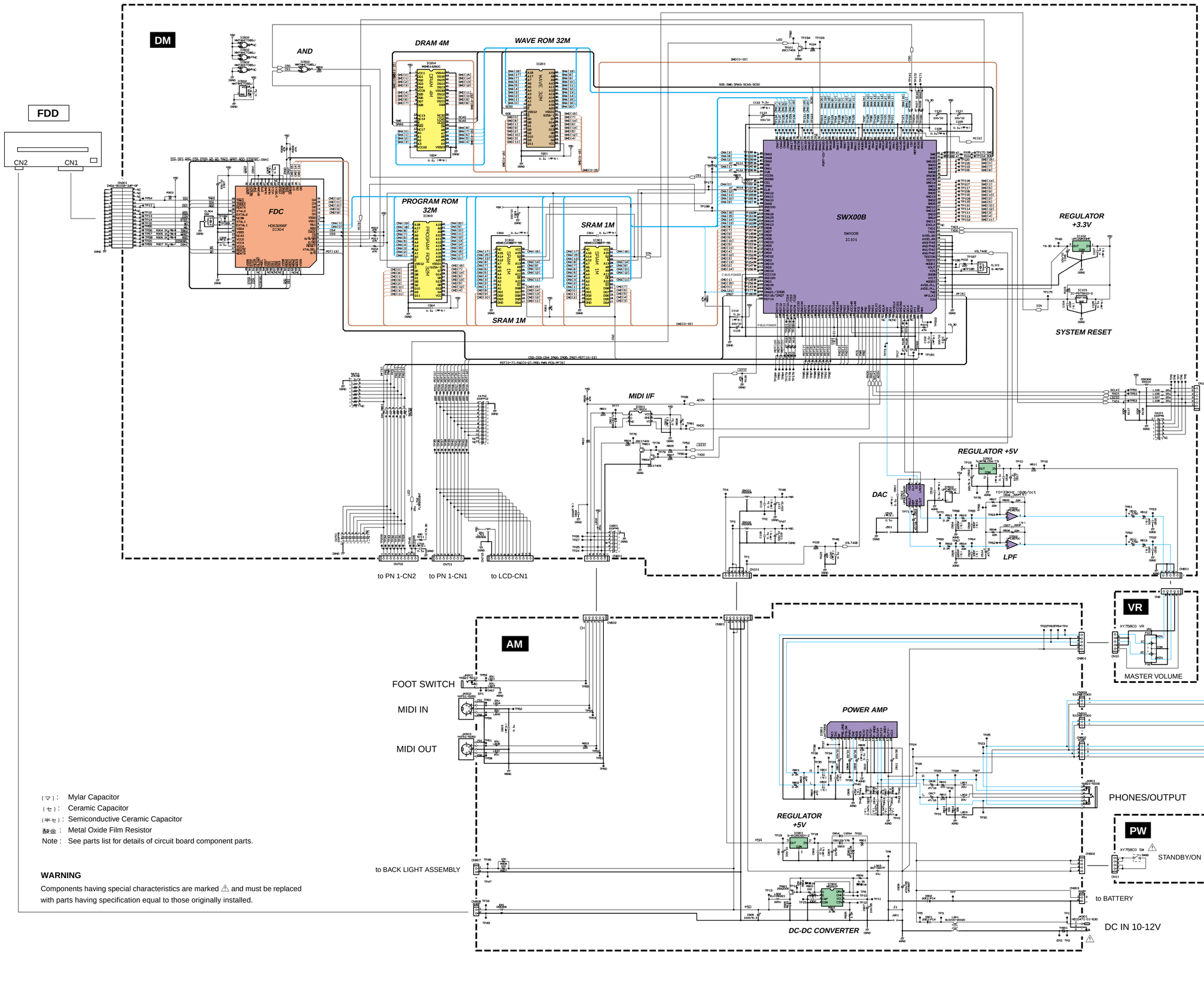
	REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	-3	**FG651220**	Ceramic Capacitor-SL	22P 50V J			01
	C1	**VR027400**	Ceramic Capacitor-SL	22P 63V J			01
	-3	**VR027400**	Ceramic Capacitor-SL	22P 63V J			01
	C4	**UR828100**	Electrolytic Cap.	100.00 10.0V			01
	C5	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z			01
	C5	**VM902400**	Semiconductive Cera. Cap.	0.1000 25V Z			01
	CA1	**VP755200**	Ceramic Capacitor Array	100P 50V K			02
	CA2	**VP755200**	Ceramic Capacitor Array	100P 50V K			02
*	CL1	**V6781400**	Ceramic Resonator	5.00M EF0EC5004T4Q			
	CN1	**VF728300**	Wire Trap	52147 6P TE			01
	CN2	**VK025600**	Wire Trap	52147 12P TE			01
	CN3	**VK025100**	Wire Trap	52147 7P TE			01
	CN4	**VK024900**	Wire Trap	52147 5P TE			01
*	IC1	**XZ560100**	IC	UPD789022GB-A15-8E	CPU		
	R1	**HF456470**	Carbon Resistor	4.7K 1/4 J			01
	-3	**HF457470**	Carbon Resistor	47.0K 1/4 J			01
	R1	**VL631400**	Carbon Resistor	4.7K 1/6 J			01
	-3	**VL632600**	Carbon Resistor	47.0K 1/6 J			01
	RA1	**VH373200**	Resistor Array	RGLE12X473J			01
*		**V7022100**	Circuit Board	PN1	(XZ777B0)		
*		**V7022400**	Circuit Board	PN4	(XZ777B0)		
	CN001	**VI878600**	Cable Holder	51048 8P TE			01
	CN002	**VI878800**	Cable Holder	51048 10P TE			01
	CN003	**VE851400**	Wire Trap	52328 15P TE			02
	CN008	**VK025100**	Wire Trap	52147 7P TE			01
	D0001	**VB941200**	Diode	1SS133,1SS176			01
	-0008	**VB941200**	Diode	1SS133,1SS176			01
	WH001	--	Connector Assembly	PN1	(V718750)		
	WH002	--	Connector Assembly	PN2	(V718760)		
*		**V7022200**	Circuit Board	PN2	(XZ776B0)		
*		**V7022300**	Circuit Board	PN3	(XZ776B0)		
*		**V7022500**	Circuit Board	PW	(XZ776B0)		
*		**V7022600**	Circuit Board	VR	(XZ776B0)		
	CN004	**VI878400**	Cable Holder	51048 6P TE			01
	CN005	**VI878500**	Cable Holder	51048 7P TE			01
	CN006	**VI878400**	Cable Holder	51048 6P TE			01
	CN007	**VE852700**	Cable Holder	51016 15P TE			01
	CN009	**VI878300**	Cable Holder	51048 5P TE			01
	CN010	**VI878300**	Cable Holder	51048 5P TE			01
	CN011	**VI878200**	Cable Holder	51048 4P TE			01
	LD001	**V5460600**	LED Green	SLZ-290B-01-T1	DISK IN USE		01
⚠	SW99	**VY980400**	Push Switch	SDDLB1 J,UC,CEE	STANDBY/ON		03
	VR001	**VZ048400**	Rotary Variable Resistor	A10.0K XV0141GPVN2	MASTER VOLUME		02
	WH004	--	Connector Assembly	PN3	(V718770)		
	WH005	--	Connector Assembly	PN4	(V718780)		
	WH006	--	Connector Assembly	PN5	(V718790)		
	WH009	--	Connector Assembly	VR1 L=350mm	(V718840)		
	WH010	--	Connector Assembly	VR2	(V718850)		
	WH011	--	Connector Assembly	SW	(V719860)		
		X0159A00	Speaker	3.0cm	TWEETER	2	03
		XT278A00	Speaker	12.0cm 4 ohm 6W	WOOFER	2	06
*		**V6968200**	LCD	TYPE-W			
		V5265000	Back Light Assembly	B			07
		V6492300	Floppy Disk Drive	3.5inch DF354H			13

*: New Parts

RANK: Japan only

■ PSR-350 OVERALL CIRCUIT DIAGRAM 1/2 (DM, AM, VR, PW, TW-L/R)



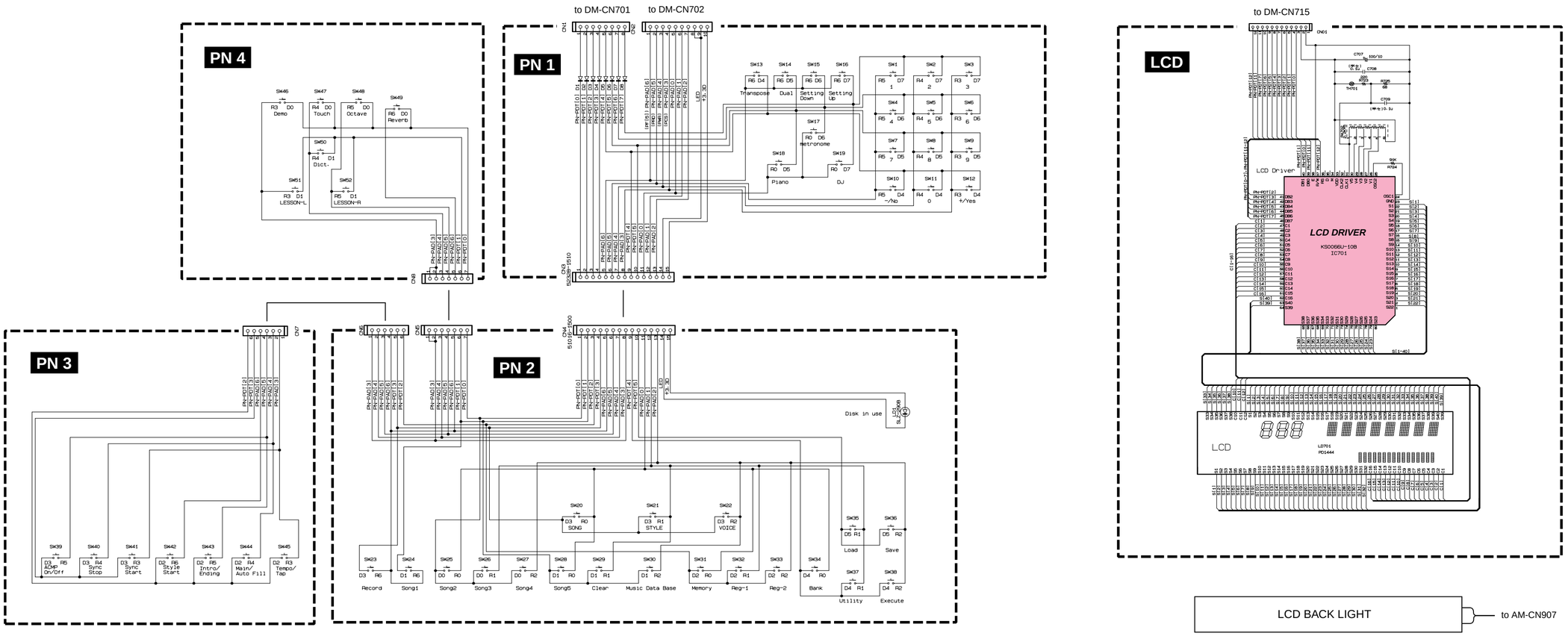
(マ): Mylar Capacitor
(セ): Ceramic Capacitor
(半セ): Semiconductive Ceramic Capacitor
酸金: Metal Oxide Film Resistor
Note : See parts list for details of circuit board component parts.

WARNING

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

DM : 28CC1-8819534
AM, TW-L/R : 28CC1-8819535
VR, PW : 28CC1-8819536

■ PSR-350 OVERALL CIRCUIT DIAGRAM 2/2 (PN 1, PN 2, PN 3, PN 4, LCD, MKS5, MK-L, MK-H)



（セ）: Ceramic Capacitor
（半セ）: Semiconductive Ceramic Capacitor
Note : See parts list for details of circuit board component parts.

PN 1, PN 2, PN3, PN4 : 28CC1-8819536
LCD : 28CC1-8819537
MK-H : 28CC1-8812655
MK-L : 28CC1-8812655