PORTATONE

PSR-GX76

SERVICE MANUAL



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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: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or 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 bus in the unit (heavy gauge black wires connect to this bus).

IMPORTANT: Turn the unit OFF during disassembly and part 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 WHATSOEVER!

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.

■ SPECIFICATIONS

Keyboards
- 76 standard-size keys, 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, PITCH BEND

Voice
- 118 panel voices + 10 Drum Kits + 128 GM Voices
- Polyphony: 32
- Voice Set

Auto Accompaniment
- 100 styles
- Accompaniment Control: ACMP ON/OFF, SYNC STOP, SYNC START, START/STOP, INTRO/ENDING, MAIN A/B(AUTO FILL)
- Fingering: Multi fingering
- Accompaniment Volume

Yamaha Educational Suite
- Dictionary
- Lesson 1-4

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

Overall controls
- Transpose
- Tuning
- Accompaniment Volume
- Song Volume
- Metronome Volume
- MIDI
- Reverb
- DSP
- Harmony
- Grade
- Talking
- Pitch Bend Range

Effects
- Reverb: 8 types
- DSP: 37 types
- Harmony: 26 types

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

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

MIDI
- Clock
- Bulk Send/Receive
- Initial Send

Auxiliary jacks
- PHONES/OUTPUT, DC IN 10-12 V, MIDI IN/OUT, SUSTAIN

Amplifier
- 3.0 W + 3.0 W

Speakers
- 12 cm x 2 + 3 cm x 2

Power Consumption
- 15 W (when using PA-3B power adaptor)

Power Supply
- Adaptor: Yamaha PA-3B AC power adaptor
- Batteries: Six “D” size, SUM-1, R-20 or equivalent batteries

Dimensions (W x D x H)
- 1188 x 435 x 129 mm (46-3/4" x 17-1/8" x 5-1/16")

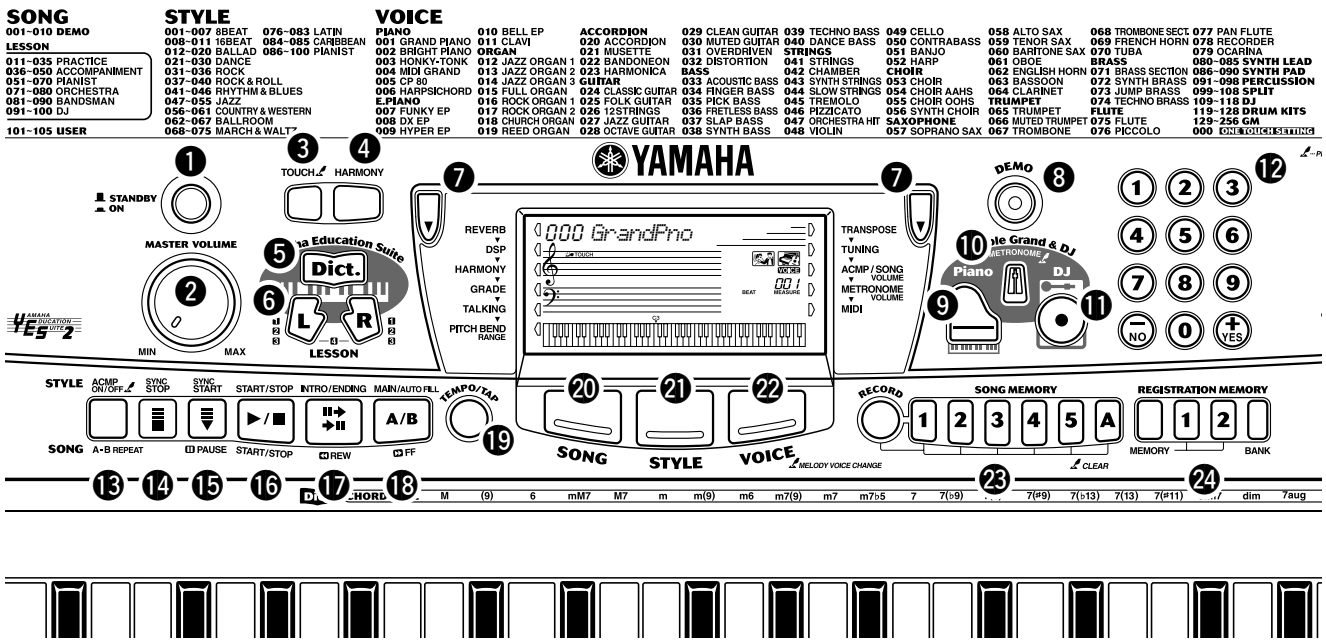
Weight
- 8 kg (17 lbs., 10 oz.)

Supplied Accessories
- Music Stand

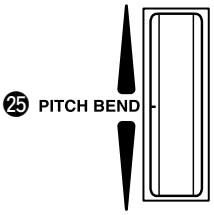
Optional Accessories
- Headphones: HPE-150
- AC power adaptor: PA-3B
- Footswitch: FC4, FC5

■ PANEL LAYOUT

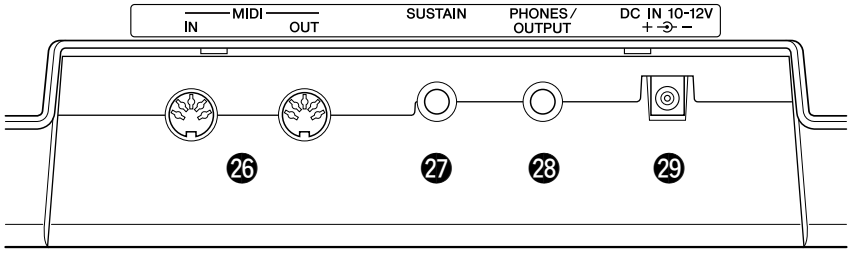
● Front Panel



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

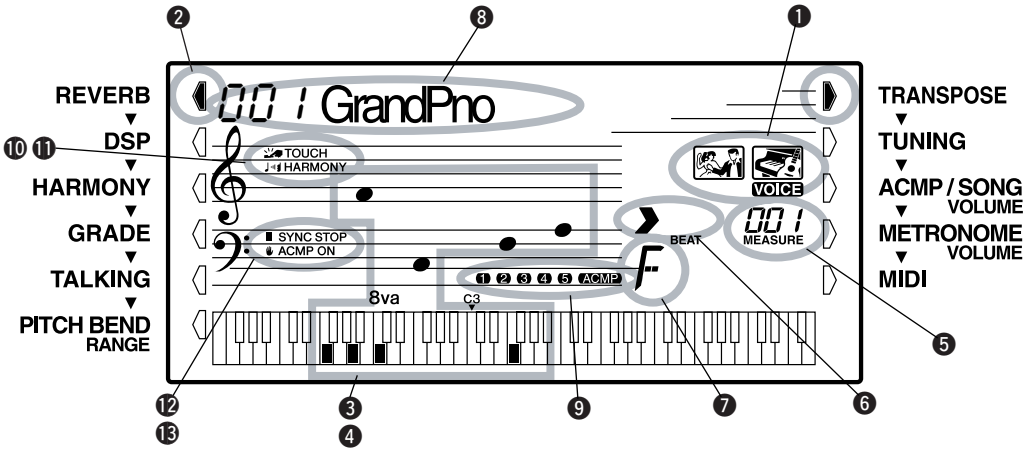


● Rear Panel



㉖ MIDI IN, OUT terminals
㉗ SUSTAIN jack
㉘ PHONES/OUTPUT jack
㉙ DC IN 10-12V jack

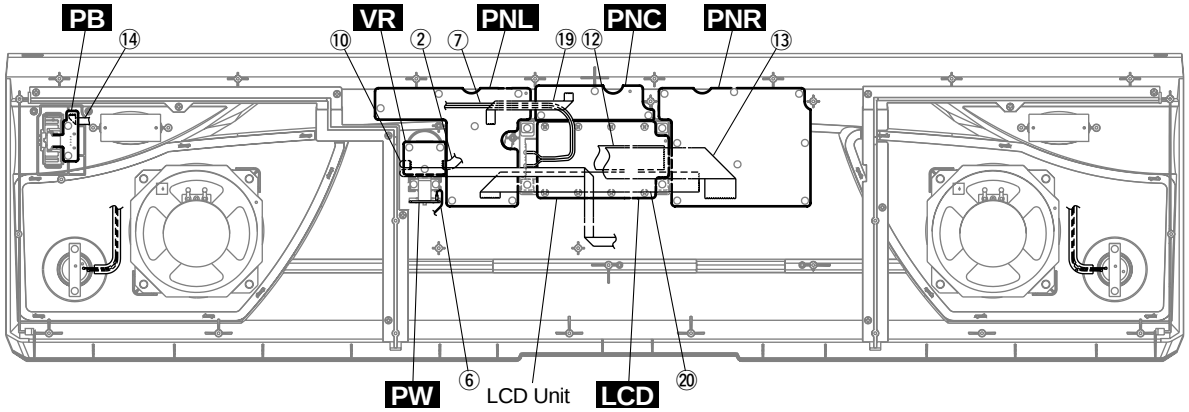
● Panel Display



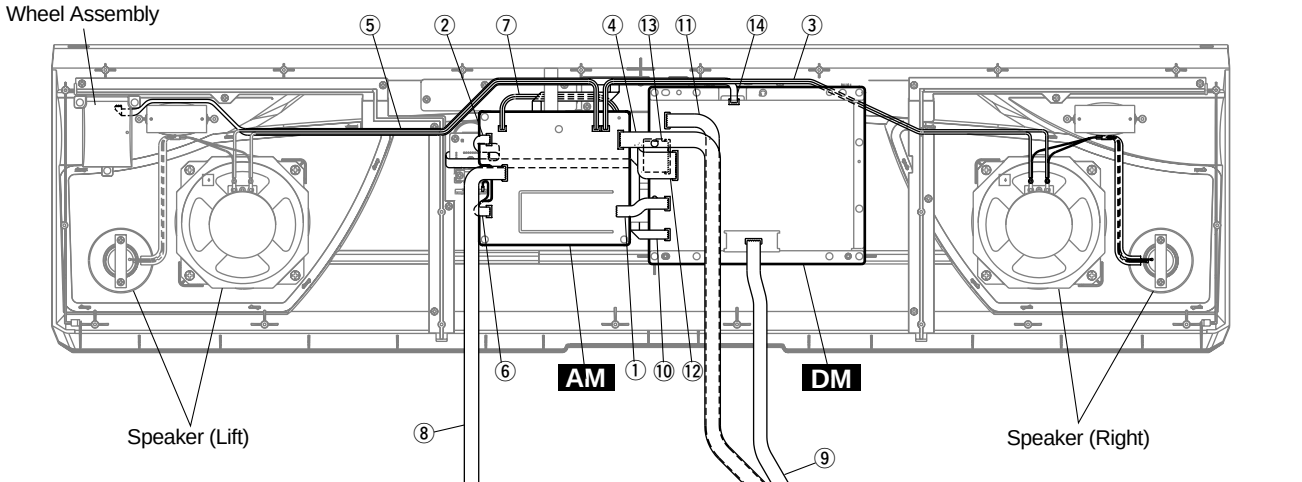
❶ **Indicators**
❷ **Overall indicator**
❸ **Notation**
❹ **Keyboard**
❺ **MEASURE**
❻ **BEAT marks**
❼ **Chord**
❽ **Song/Voice/Style neme and numder, Tempo**
❾ **Song trackindicators**
❿ **TOUCH indicator**
⓫ **HARMONY indicator**
⓬ **SYNC STOP indicator**
⓭ **ACMP ON indicator**

■ UNIT LAYOUT

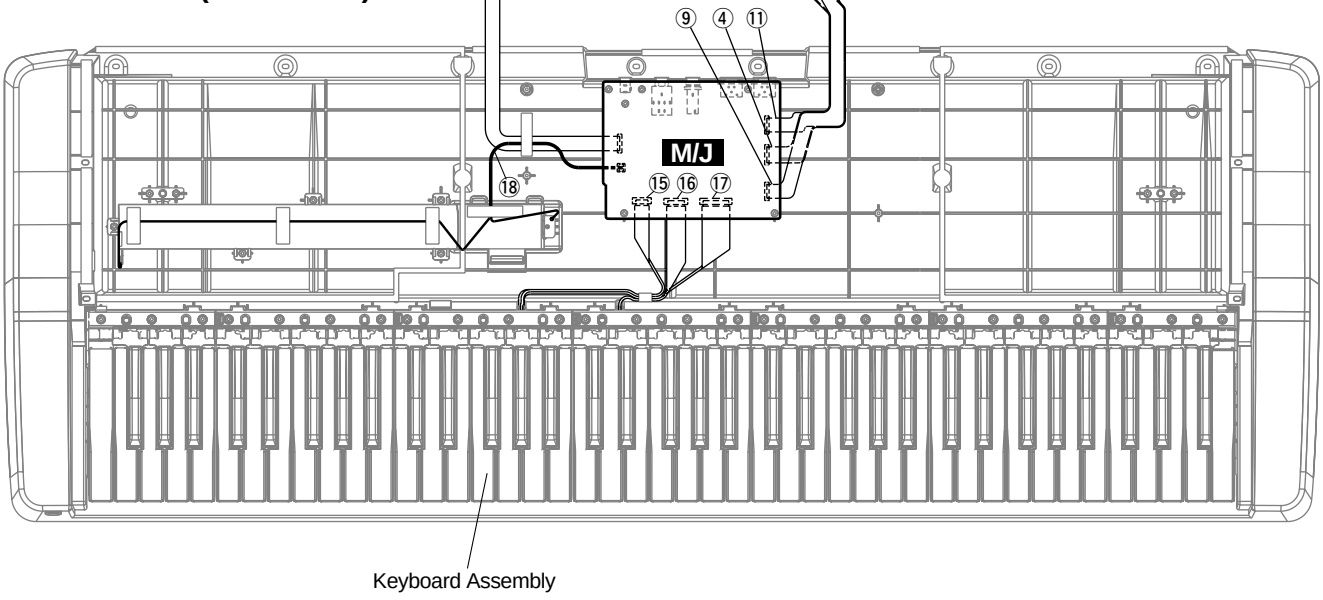
● Upper Case (Inside View1)



● Upper Case (Inside View2)

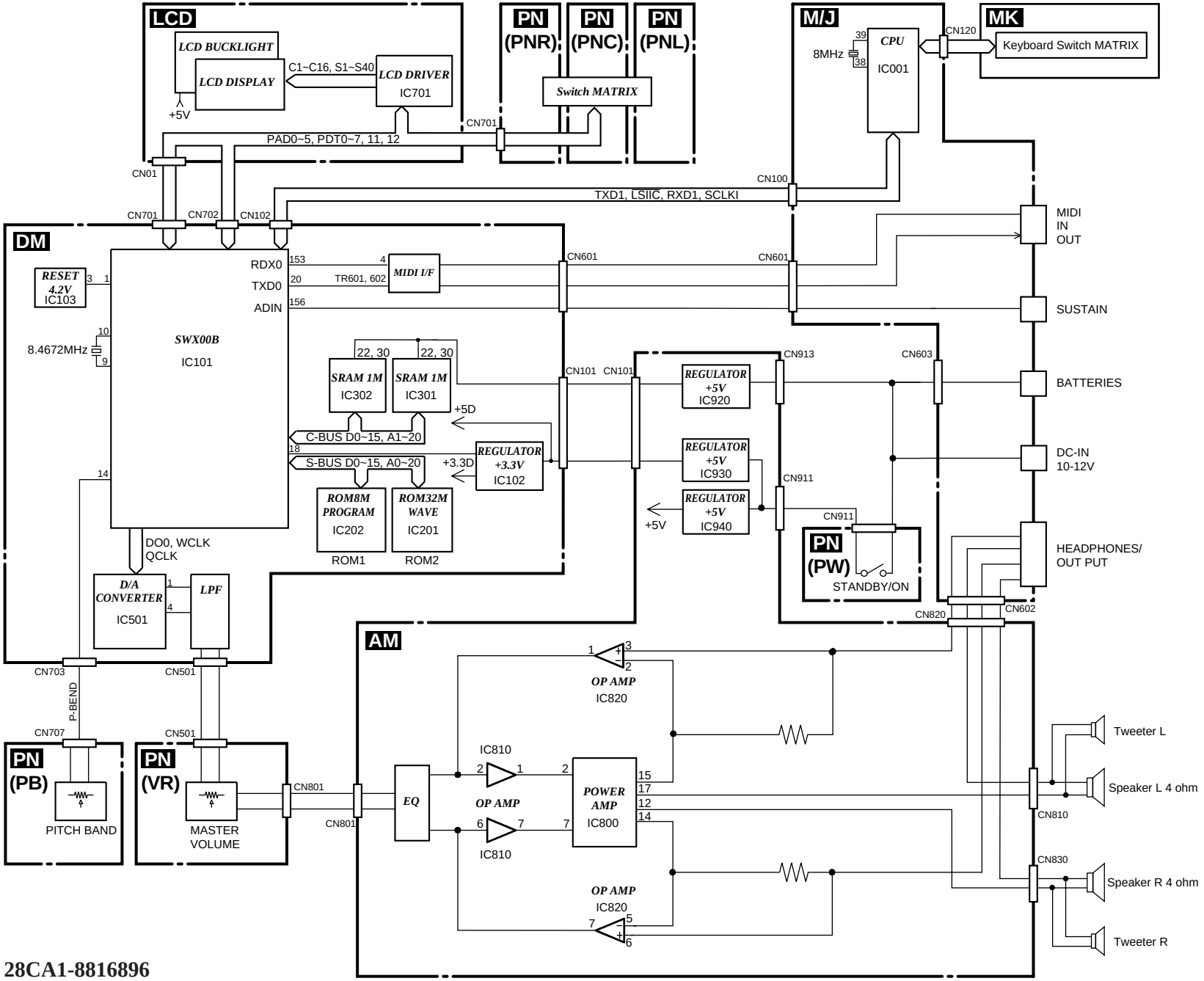


● Lower Case (Inside View)



REF. NO.	DESTINATION		CONNECTOR ASSEMBLY	PIN/ LENGTH	PART NO.	REMARKS
①	AM-CN101	DM-CN101	DM-AM	5P	(V544520)	
②	AM-CN801	PN(VR)-CN801	AM-VR	4P	(V544600)	
③	AM-CN810	Speaker R	AM-Speaker-R	2P	(V544470)	
④	AM-CN820	M/J-CN602	AM-JACK2	7P	(V544610)	
⑤	AM-CN830	Speaker L	AM-Speaker-L	2P	(V573410)	
⑥	AM-CN911	PN(PW)-CN911	AM-PSW	4P	(V544590)	
⑦	AM-CN912	LCD	AM-LCD	2P	(V544460)	
⑧	AM-CN913	M/J-CN603	AM-PS2	6P	(V544620)	
⑨	DM-CN102	M/J-CN100	DM-MKS	6P	(V617500)	
⑩	DM-CN501	PN(VR)-CN501	DM-VR	4P	(V544570)	
⑪	DM-CN601	M/J-CN601	DM-JACK1	6P	(V544530)	
⑫	DM-CN701	LCD-CN1	DM-LCD	12P	(V544510)	
⑬	DM-CN702	PN(PNR)-CN701	DM-PN-R	14P	(V544560)	
⑭	DM-CN703	PN(PB)-CN707	DM-PB	3P	(V544580)	
⑮	M/J-CN110	MK76L-CN3	JACK5-MK3	6P	(V544650)	
⑯	M/J-CN120	MK76H-CN2	JACK4-MK2	8P	(V544640)	
⑰	M/J-CN130	MK76H-CN1, MK76L-CN1	JACK3-MK1	12P	(V544630)	
⑱	M/J-CN604	BATTERY	JACK-PS1	2P	(V544480)	
⑲	PN(PNC)-CN706	PN(PNL)-CN705	PN-L-PN-C	4P	(V547750)	
⑳	PN(PNL)-CN704	PN(PNR)-CN703	PN-R-PN-L	9P	(V547740)	

■ BLOCK DIAGRAM

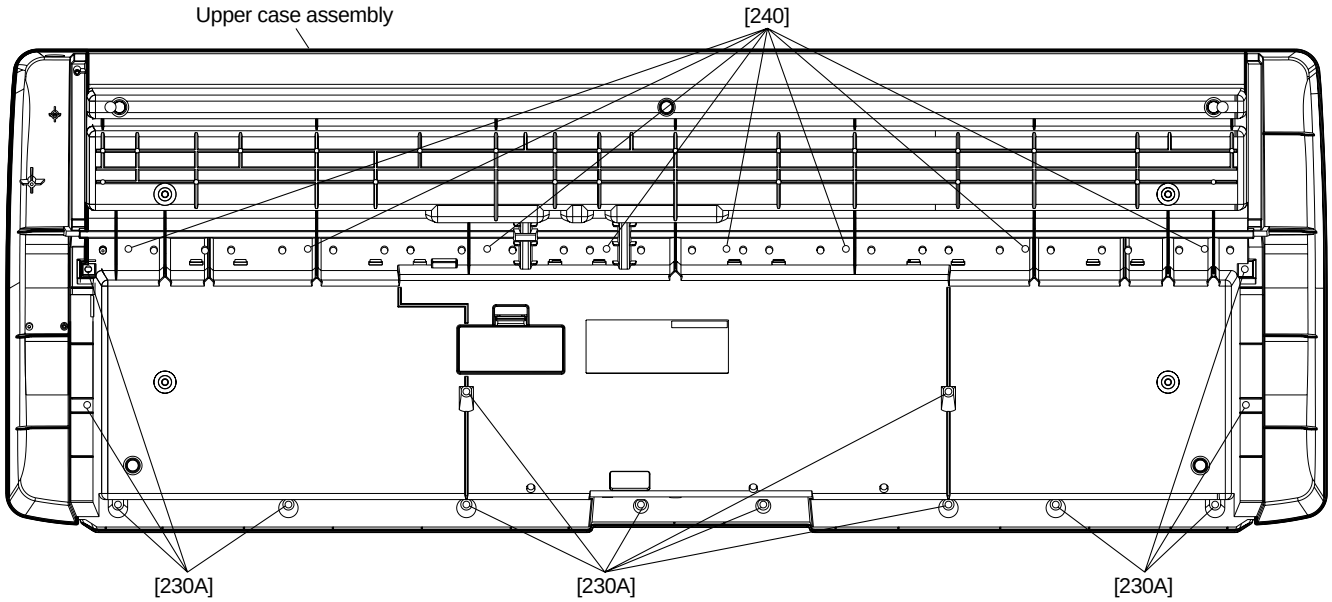


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■ DISASSEMBLY PROCEDURE

1. Upper Case Assembly

1-1 Removed the eight (8) screws marked [240] and the fourteen (14) screws marked [230A]. The upper case assembly can then be removed. (Fig. 1)



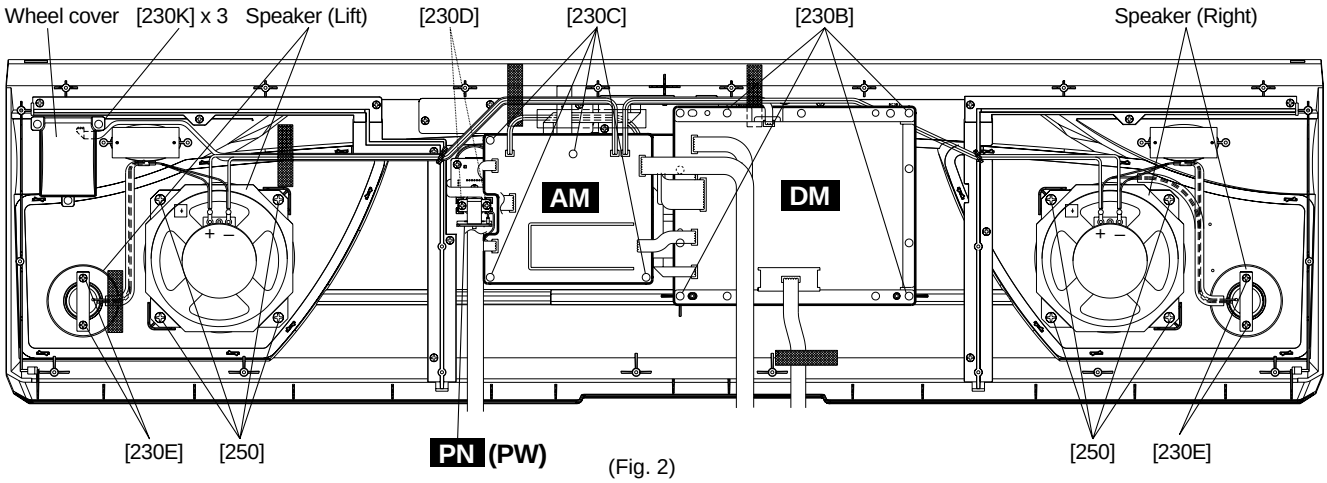
[230A]: Bind Head Tapping Screw-B 3.0 × 8 MFZN2BL (EP600190)
[240]: Bind Head Tapping Screw-B 3.0 × 25 MFZN2BL (VU481600)

(Fig. 1)

2. Cricuit Board & Unit

After removing the lower case, remove the following screws. Each circuit board and unit can then be removed. (Fig. 2)

Circuit Board & Unit	Ref. NO.	Screw	Parts NO.	QTY
DM Circuit Board	[230B]	Bind Haed Tapping Screw-B 3.0X8 MFZNBL	EP600190	4
AM Circuit Board	[230C]	Bind Haed Tapping Screw-B 3.0X8 MFZNBL	EP600190	4
PN (PW) Circuit Board	[230D]	Bind Haed Tapping Screw-B 3.0X8 MFZNBL	EP600190	2
Speaker Left, Right	[250]	Bind Haed Tapping Screw-B 4.0X8 MFZNBL	EG340190	8
Speaker Left, Right	[230E]	Bind Haed Tapping Screw-B 3.0X8 MFZNBL	EP600190	4
Wheel cover	[230K]	Bind Haed Tapping Screw-B 3.0X8 MFZNBL	EP600190	3



(Fig. 2)

3. LCD Unit

3-1 Removed the upper case assembly. (See Procedure 1.)
3-2 Removed the DM circuit board. (See Procedure 2.)
3-3 Removed the AM circuit board. (See Procedure 2.)
3-4 Removed the four (4) screws marked [230F]. The LCD unit can then be removed. (Fig. 3)

4. LCD Circuit Board

4-1 Removed the upper case assembly. (See Procedure 1.)
4-2 Removed the DM circuit board. (See Procedure 2.)
4-3 Removed the AM circuit board. (See Procedure 2.)
4-4 Removed the eight (8) screws marked [50]. The LCD circuit board can then be removed. (Fig. 3)

5. PN (PNL) Circuit Board

5-1 Removed the upper case assembly. (See Procedure 1.)
5-2 Removed the AM circuit board. (See Procedure 2.)
5-3 Removed the six (6) screws marked [230G]. The PN (PNL) circuit board can then be removed. (Fig. 3)

6. PN (PNC) Circuit Board

6-1 Removed the upper case assembly. (See Procedure 1.)
6-2 Removed the DM circuit board. (See Procedure 2.)
6-3 Removed the AM circuit board. (See Procedure 2.)
6-4 Removed the three (3) screws marked [230H]. The PN (PNC) circuit board can then be removed. (Fig. 3)

7. PN (PNR) Circuit Board

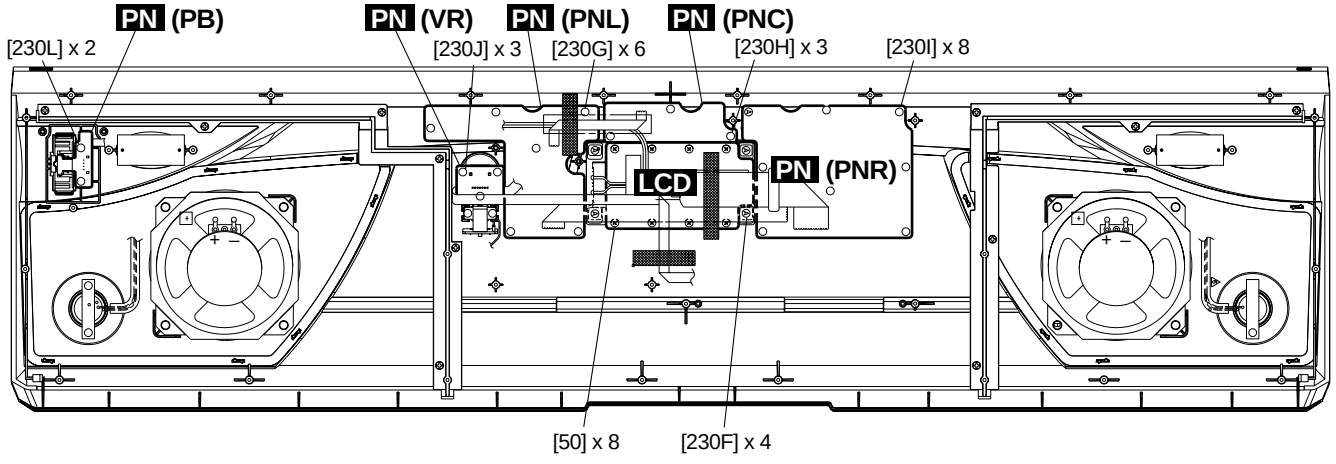
7-1 Removed the upper case assembly. (See Procedure 1.)
7-2 Removed the DM circuit board. (See Procedure 2.)
7-3 Removed the eight (8) screws marked [230I]. The PN (PNR) circuit board can then be removed. (Fig. 3)

8. PN (VR) Circuit Board

8-1 Removed the upper case assembly. (See Procedure 1.)
8-2 Removed the AM circuit board. (See Procedure 2.)
8-3 Removed the three (3) screws marked [230J]. The PN (VR) circuit board can then be removed. (Fig. 3)

9. WHEEL Assembly & PN (PB) Circuit Board

9-1 Removed the upper case assembly. (See Procedure 1.)
9-2 Removed the three (3) screws marked [230K]. The wheel cover can then be removed. (Fig. 2)
9-3 Removed the two (2) screws marked [230L]. The PN (PB) circuit board can then be removed. (Fig. 3)



[50]: Bind Head Tapping Screw-9 3.0 × 8 MFZN2Y (EP600280)
[230]: Bind Head Tapping Screw-B 3.0 × 8 MFZN2BL (EP600190)

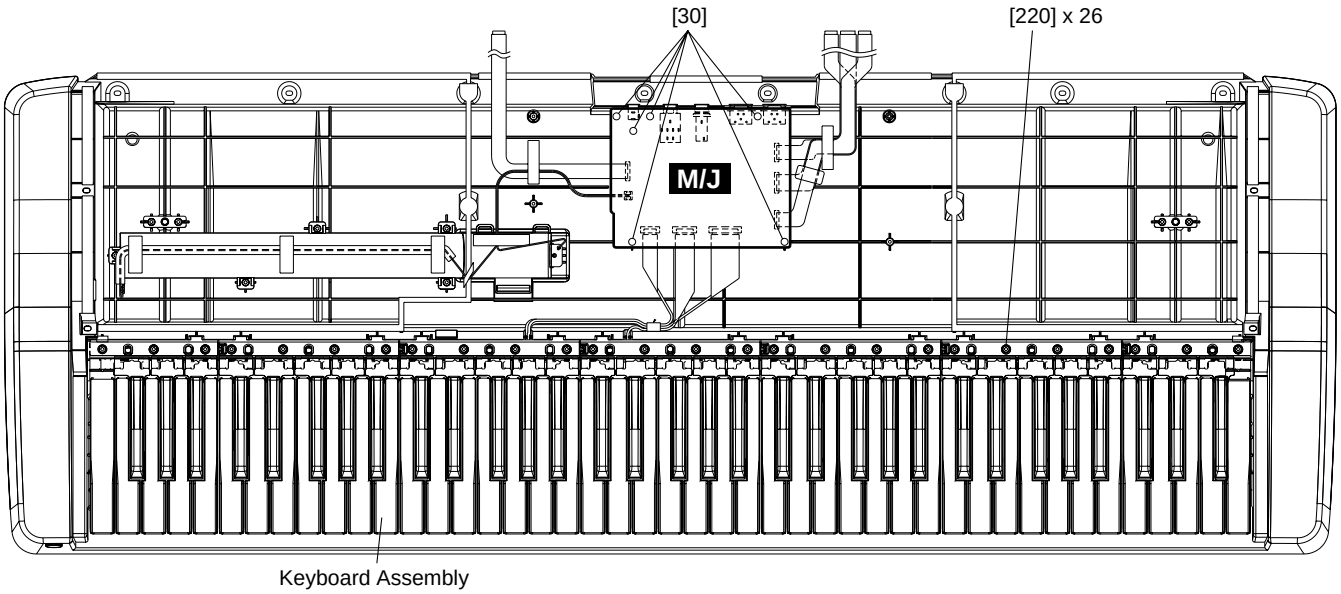
(Fig. 3)

10. M/J Circuit Board

10-1 Removed the upper case assembly. (See Procedure 1.)
10-2 Removed the six (6) screws marked [30]. The M/J circuit board can then be removed. (Fig. 4)

11. Key Board Assembly

11-1 Removed the upper case assembly. (See Procedure 1.)
11-2 Removed the twentysix (26) screws marked [220]. The keyboard assembly can then be removed. (Fig. 4)

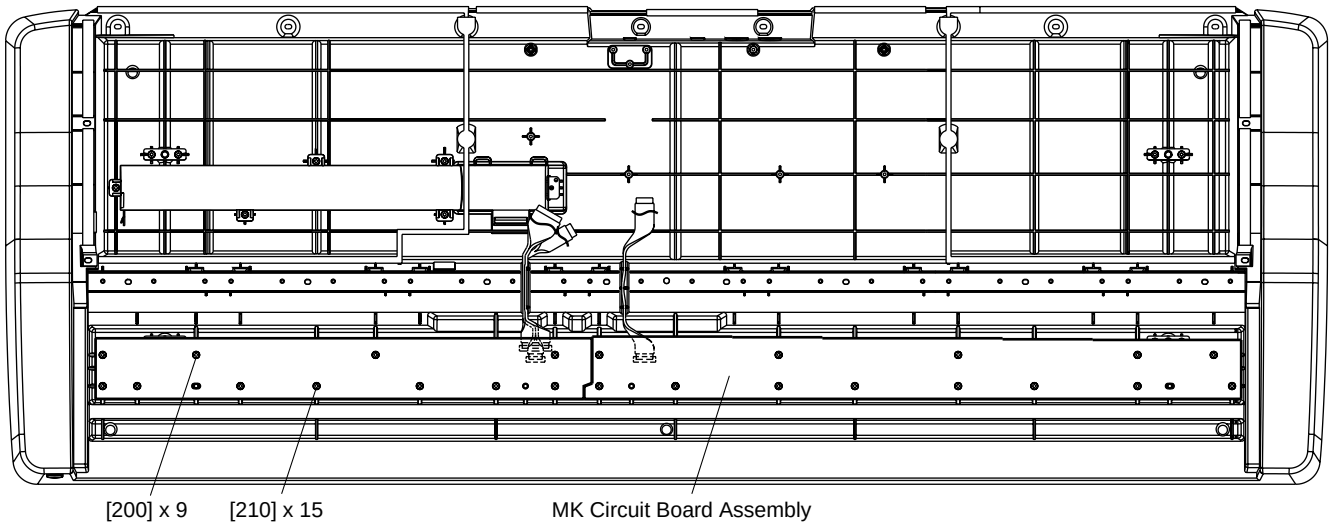


[30]: Bind Head Tapping Screw-B 3.0 × 8 MFZN2BL (EP600190)
[220]: Bind Head Tapping Screw-P 3.0 × 20 MFZN2 (VT069800)

(Fig. 4)

12. MK Circuit Board Assembly

12-1 Removed the upper case assembly. (See Procedure 1.)
12-2 Removed the keyboard assembly. (See Procedure 11.)
12-3 Removed the nine (9) screws marked [200] and the fifteen (15) screws marked [210]. The MK circuit board assembly can then be removed. (Fig. 5)



[200]: Bind Head Tapping Screw-B 3.0 × 8 MFZN2Y (EP600250)
[210]: Bind Head Tapping Screw-P SP 3.0 × 12 MFZBL (VZ313100)

(Fig. 5)

■ LSI PIN DISCRIPTION

● **KS0066U-10B** (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	osc	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 (5V)	73	S30	O	
34	M	O	Alternated signal for LCD driver output	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		79	S24	O	
40	DB1	I/O		80	S23	O	

● HG73C205AFD (XU947C00) SWX00B TONE GENERATOR

DM: IC101

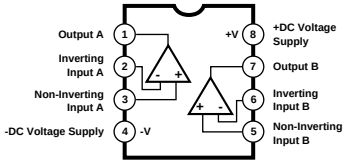
PIN No.	NAME	I/O	FUNCTION	PIN No.	NAME	I/O	FUNCTION
1	ICN	I	Initial clear	85	CMA3	O	
2	RFCLKI	I	PLL Clock	86	CMA8	O	
3	TM2	I	PLL Control	87	CMA2	O	
4	AVDD_PLL		Power supply	88	CRD	O	read signal
5	AVSS_PLL		Ground	89	CMA1	O	Program address bus
6	MODE0	I	SWX dual mode	90	CUB	O	high byte effective signal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

● **HD63B05V0F11P** (XY512A00) **CPU** M/J: IC001

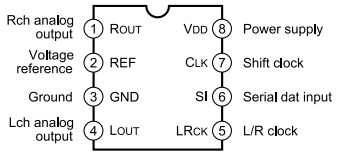
PIN No.	NAME	I/O	FUNCTION	PIN No.	NAME	I/O	FUNCTION
1	$\overline{\text{RES}}$	I	Reset	21	C7	I/O	Port C
2	$\overline{\text{INT}}$	I	Interrupt request	22	C6	I/O	
3	NUM	I	Non-maskable interrupt	23	C5	I/O	
4	A7	I/O	Port A	24	C4	I/O	
5	A6	I/O		25	C3	I/O	
6	A5	I/O		26	C2	I/O	
7	A4	I/O		27	C1	I/O	
8	A3	I/O		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	D3/TX	O	(Serial data output)
13	B1	I/O		33	D4/$\overline{\text{RX}}$	I	(Serial data input)
14	B2	I/O		34	D5/$\overline{\text{CK}}$	O	(Clock for serial operation)
15	B3	I/O		35	D6/$\overline{\text{INT2}}$	I	(Interrupt request 2)
16	B4	I/O		36	$\overline{\text{STBY}}$	I	(Standby mode signal)
17	B5	I/O		37	TIMER	I	Timer
18	B6	I/O		38	XTAL	O	Clock
19	B7	I/O		39	EXTAL	I	
20	VSS		Ground	40	VCC		Power supply

■ IC BLOCK DIAGRAM

● **UPC4570C** (XC520A00)
Dual Operational Amplifier
AM: IC810, 820
DM: IC502



● μ**PD6379AGR** (XR998A00)
D/A CONVERTER
DM: IC501

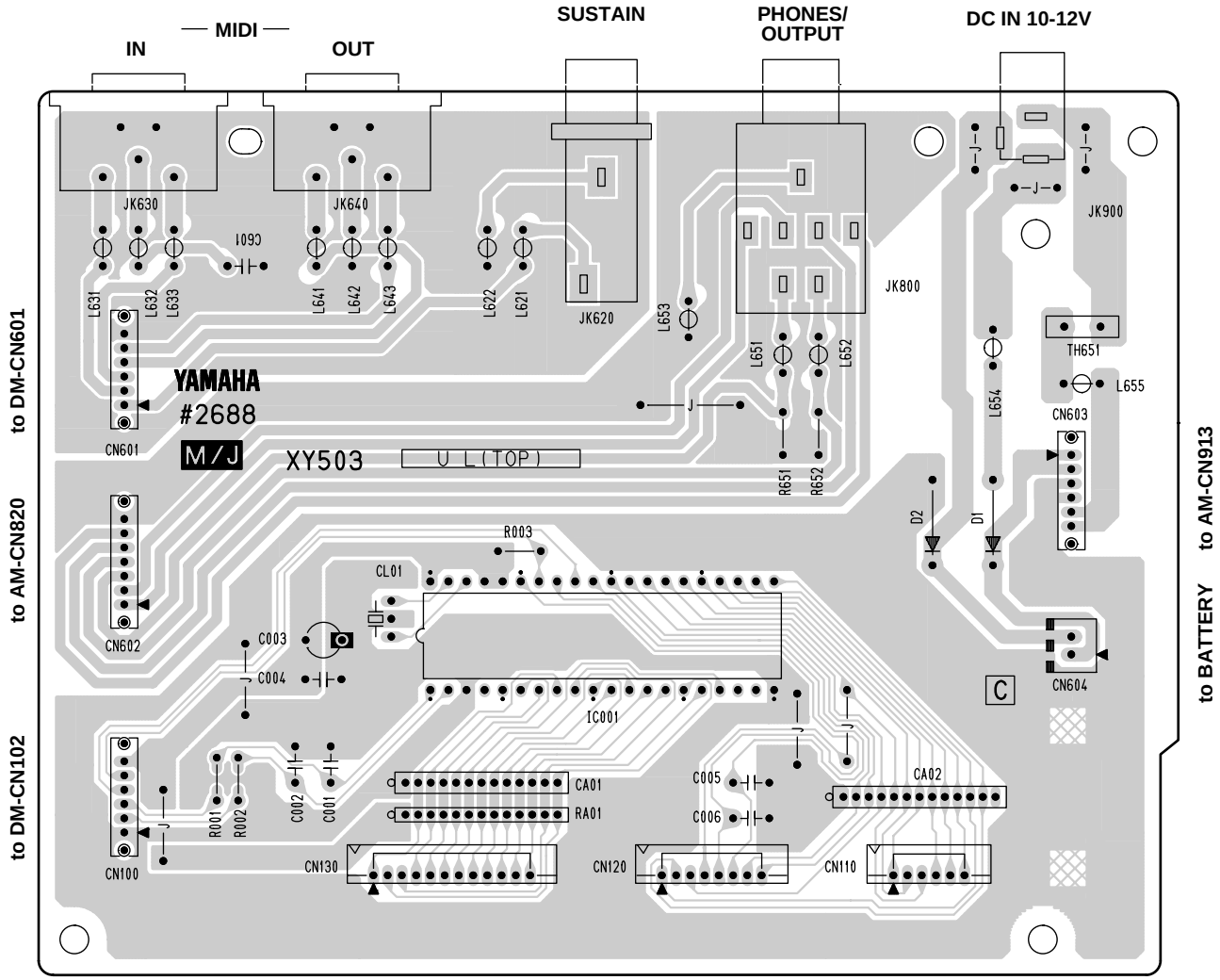


■ CIRCUIT BOARDS

CONTENTS

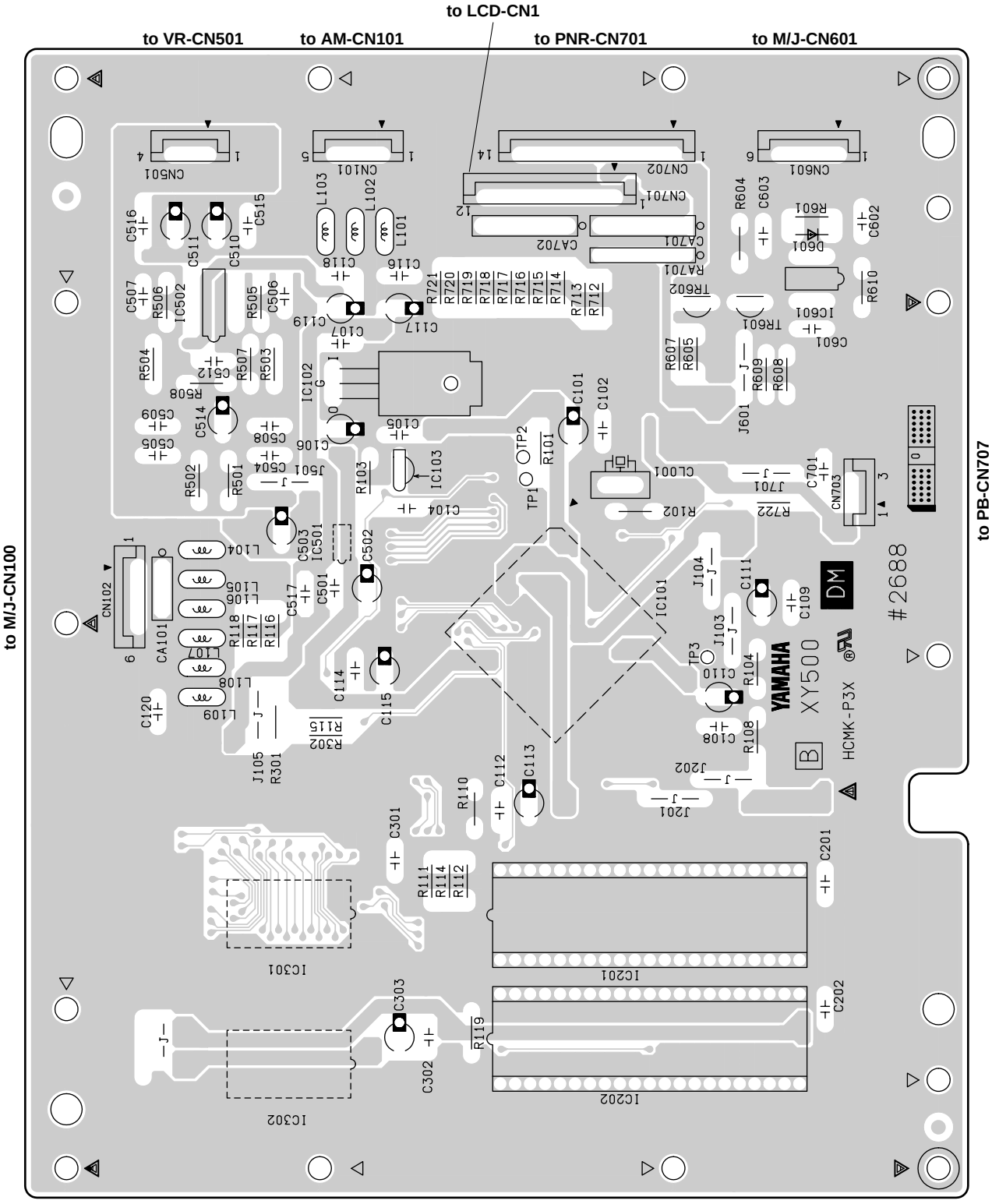
M/J Circuit Board	V5427900	(XY503C00)	Page15
DM Circuit Board	V5427600	(XY500B00)	Page16
AM Circuit Board	V5427700	(XY501C00)	Page18
PN (PB) Circuit Board	V5427800	(XY502A00)	Page18
PN (PW) Circuit Board	V5427800	(XY502A00)	Page18
PN (VR) Circuit Board	V5427800	(XY502A00)	Page18
LCD Circuit Board	V5478600	(XY504B00)	Page19
PN (PNL) Circuit Board	V5427800	(XY502A00)	Page20
PN (PNC) Circuit Board	V5427800	(XY502A00)	Page20
PN (PNR) Circuit Board	V5427800	(XY502A00)	Page21

● M/J Circuit Board



M/J: V542790

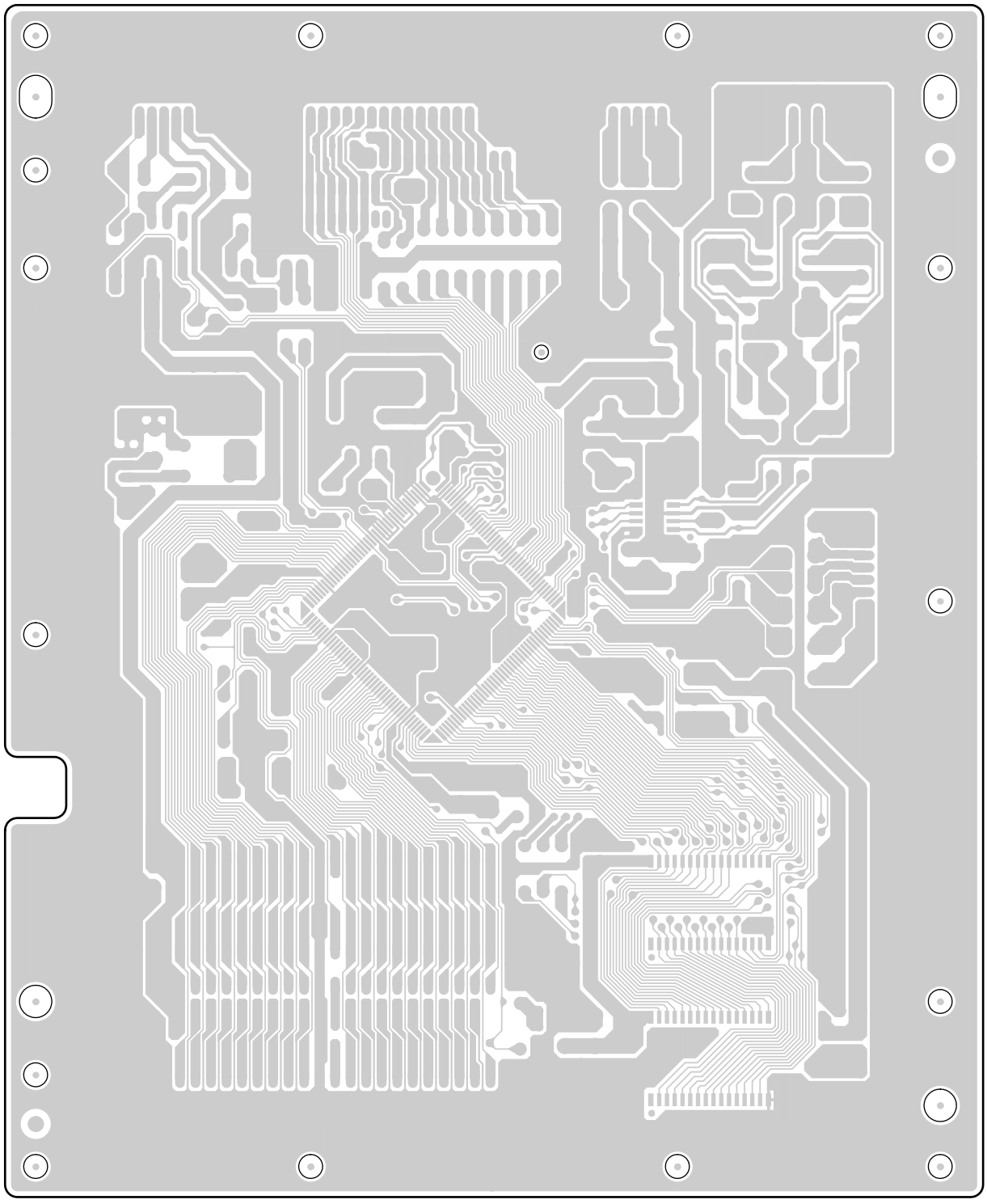
● DM Circuit Board



Component side

DM: V542760

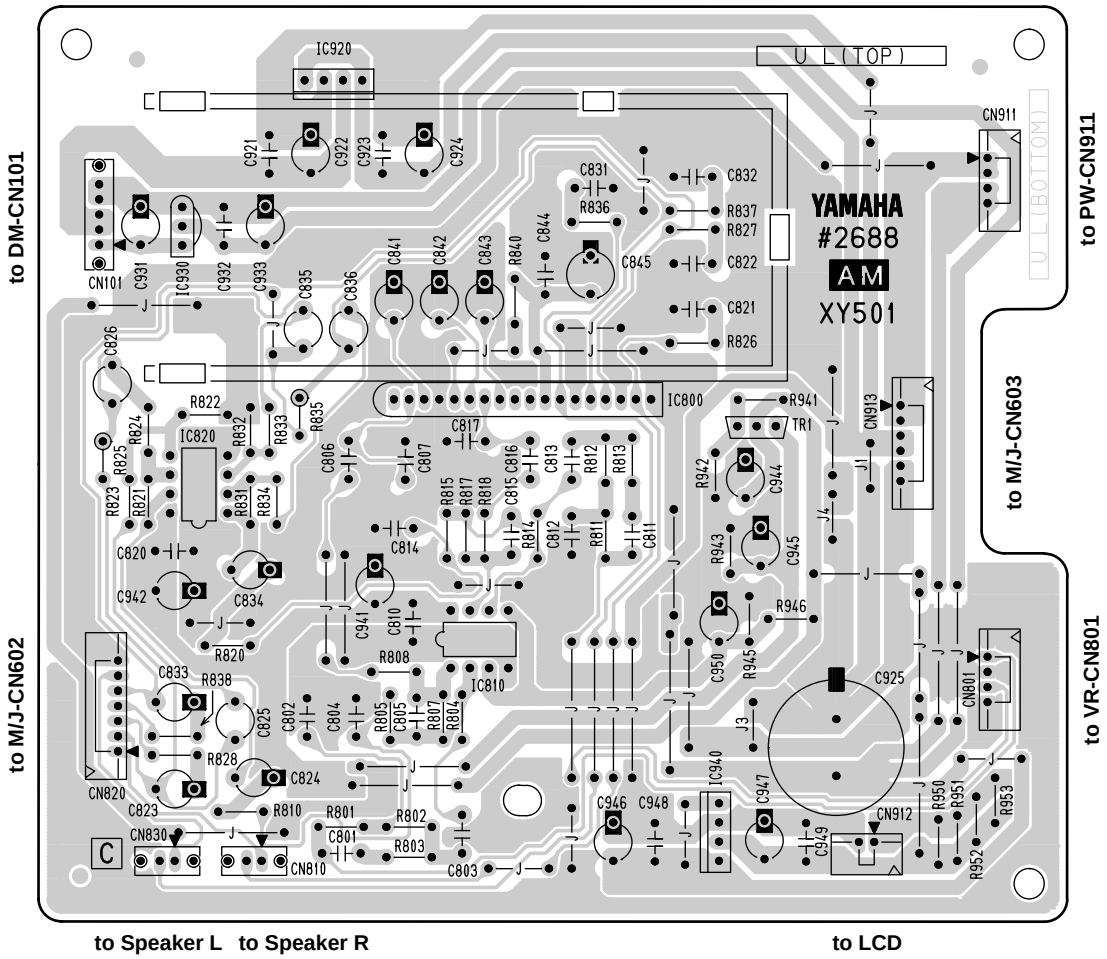
● DM Circuit Board



Pattern side

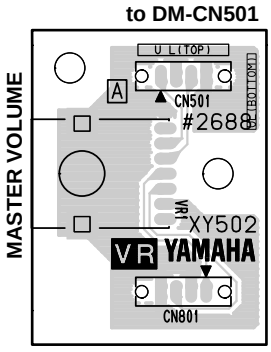
DM: V542760

● AM Circuit Board



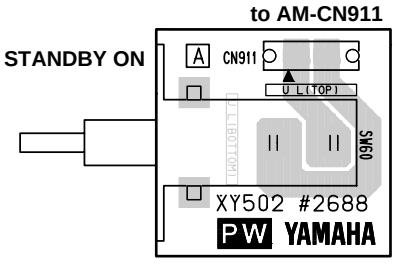
Component side

● PN (VR) Circuit Board



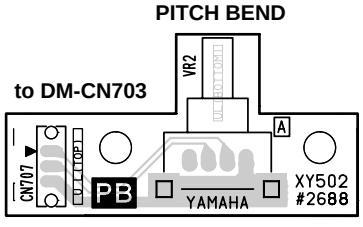
Component side

● PN (PW) Circuit Board



Component side

● PN (PB) Circuit Board

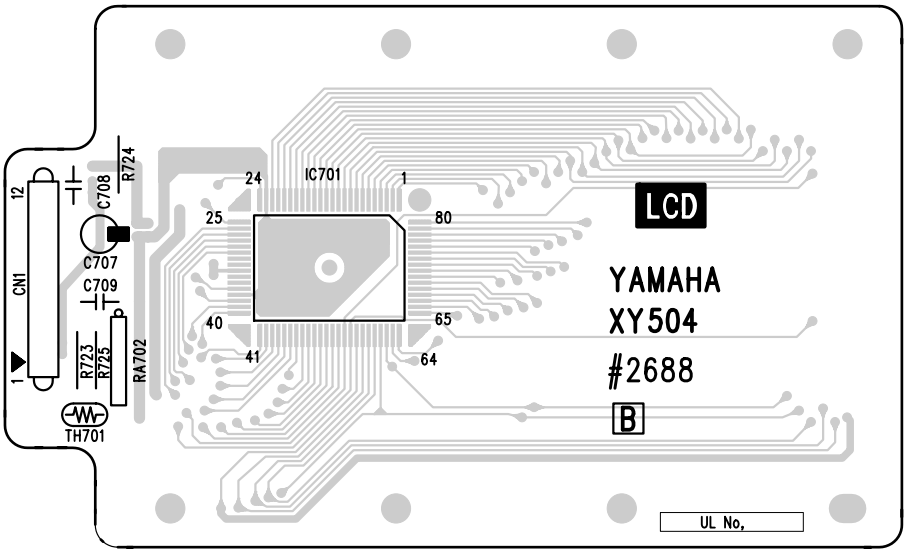


Component side

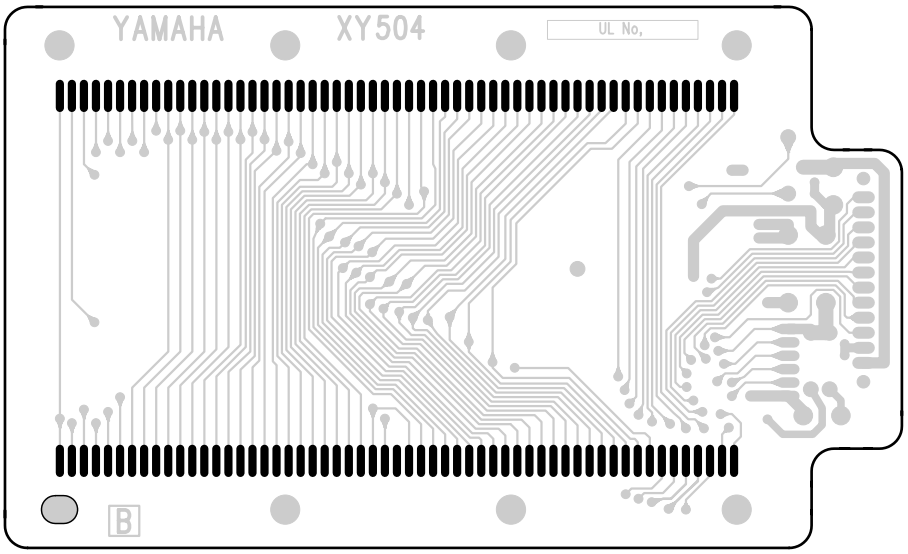
AM:	**V542770**
PN (PB):	**V542780**
PN (PW):	**V542780**
PN (VR):	**V542780**

● LCD Circuit Board

to DM-CN701



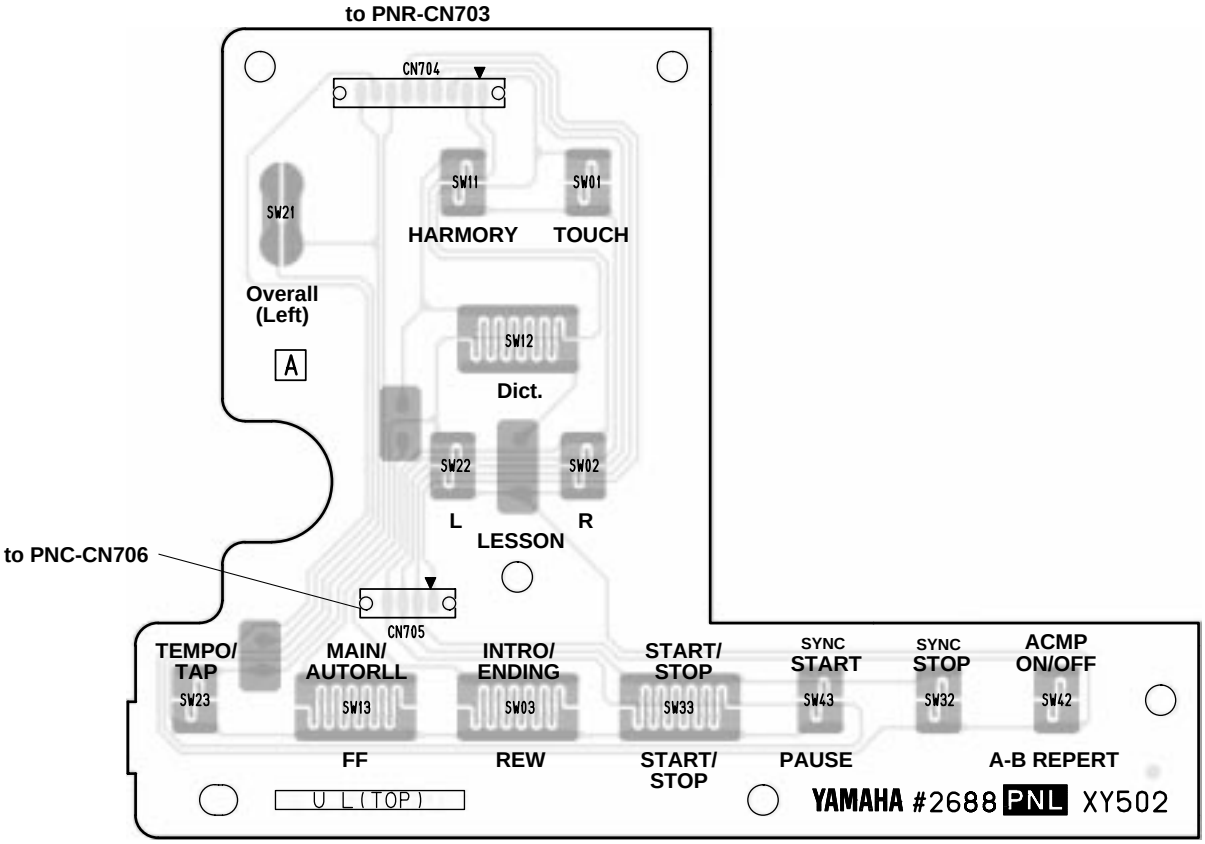
Component side



Pattern side

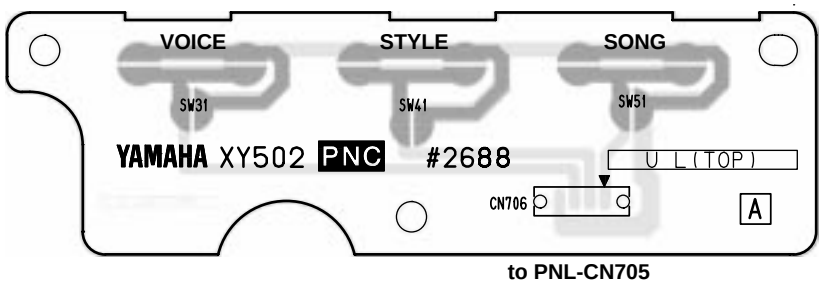
LCD: V547860

● PN (PNL) Circuit Board



Component side

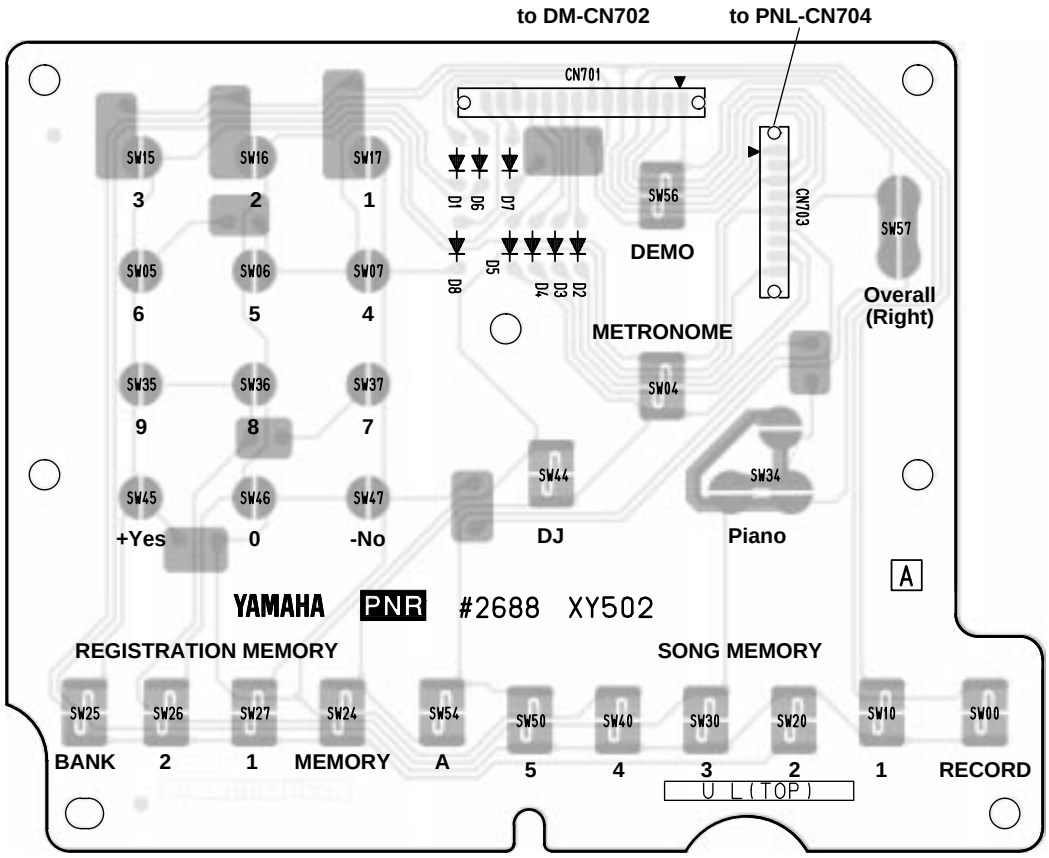
● PN (PNC) Circuit Board



Component side

PN (PNL): V542780
PN (PNC): V542780

● PN (PNR) Circuit Board



Component side

PN (PNR): V542780

■ TEST MODE

Requirements for Measurement

1) Use PA-3B (AC adapter). (PA-32 or PA-3 may also be used.)
2) If no volume change is designated, set it at the position for normal use.
3) Measuring instruments
   Frequency counter
   Level gauge (with JIS-C filter)
   (NOTE 1) For output at the "PHONES/OUTPUT" terminal, use a stereo plug with a load resistance of 33 ohms connected and carry out the measurement.
4) Jigs
   Foot switch and MIDI cable

A. Starting the Test Program

While holding down the keyboards C2#, F2, and G2# simultaneously, turn the "STAND BY/ON" switch ON.

B. Carrying on the Test Program

When the test program is activated, the LCD displays "TEST".
Select a test program item by pressing the "OVERALL +/-" button.
Pressing the "START/STOP" switch starts the test in action.
Pressing the "START/STOP" button again causes the original display to return.

D. List of Test Program Items

1. 001: Version — Display ROM Version.
   ROM (Program, Wave) version is alternately displayed repeatedly.

2. 002: Rom Chk1 — Check ROM.
   Check that OK is displayed.

3. 003: Ram Chk1 — Check RAM.
   Check that OK is displayed.

4. 004: WRom Chk1 — Check Wrom Chk1.
   Check that OK is displayed.

11. 011: TG1 Chk — Check Sound Source 1 (auto-scale)
    Use 1ch to 32 ch of the sound source in that order to produce sounds from C2 to D#3 in sine wave. Check that there is no excessive noise. After auto scaling is finished, sounds are pro duced by pressing the keyboards. (Monotony, first-come priority)

13. 013: Pit Chk — Check PITCH.
    Connect the frequency counter to the "PHONES/OUTPUT" terminal. Output a sine wave of 440 Hz +/- 1.76 Hz with PAN=Center. Check that correct signals are outputted.

14. 014: Output R — Check Right Output Level.
    Connect the level gauge to the "PHONES/OUTPUT" terminal and turn up "MASTER VOL UME" to the maximum level. A sine wave of 1 KHz is outputted. Check that output R is –21.4 dBm or less and output L is –59.4 dBM or less.

15. 015: Output L — Check Left Output Level.
    Connect the level gauge to the "PHONES/OUTPUT" terminal, and turn up "MASTER VOL UME" to the maximum level. A sine wave of 1 KHz is outputted. Check that output R is –59.4 dBm or less and output L is –21.4 dBm or less.

19. 019: Noise — Check D/A Converter Noise.

Connect the level gauge to the “PHONES/OUTPUT” terminal and turn up “MASTER VOL UME” to the maximum level. Check that output R/L is –75.4 dBm or less.

20. 020: SW Chk — Check Panel Switches.
Press the switches in order of their names that appear on the LCD. Sounds are produced in specified tones.
Pressing the last switch indicates OK on the LCD.

28. 028: LCD On — Check All LCD Indications Light Up.
Check that all LCD dots light up when the test is conducted.

29. 029: LCD Off — Check All LCD Indications Go Out.
Check that all LCD dots go out and the screen becomes whitened when the test is conducted.

31. 031: PD1 Chk — Check Foot Switch.
Connect the foot switch to the “SUSTAIN” terminal. If the test is started with the pedal held down, the screen displays PD1 Off, producing sounds of C4 sine wave. When the pedal is released, PD1 OK is displayed and the sounds stop.
If the test is started with the pedal released, the screen displays PD1 On and sounds of C3 sine wave are produced. When the pedal is released, PD1 Off is displayed and sounds of C4 sine wave are produced. When the pedal is released, PD1 OK is displayed and the sounds stop.

33. 033: PB Chk — Check Pitch Bend Wheel.
PB DW is displayed on the LCD screen. If the wheel is lowered, sounds of C3 since wave are produced. The screen displays PB UP, so if the wheel is raised, sounds of C4 sine wave are produced.

37. 037: MIDI Chk — Check MIDI.
Connect the MIDI cables to MIDI IN and MIDI OUT at the “MIDI” terminal. If the test is started, MIDI OK is displayed on the LCD screen and sounds of C4 sine wave are produced.

41. 041: Rom Chk2 — Check Rom.
Check that OK is displayed.

42. 042: Ram Chk2 — Check Ram.
Check that OK is displayed.

43. 043: WRom Chk2 — Check Wrom.
Check that OK is displayed.

46. 046: Back Up 2 — Check Back Up 2.
Check that OK is displayed.

47. 047: Factory — Check Factory.
Check that End is displayed.

48. 048: Test Exit — Execution allows escape from the test program, entering into play mode.

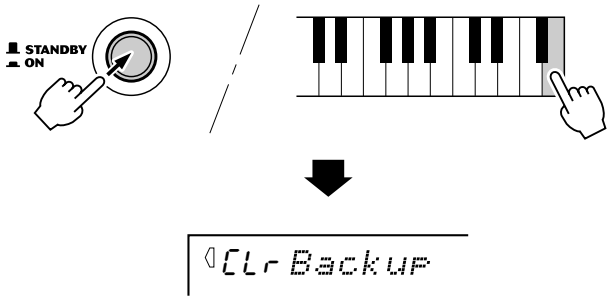
● DATA Backup

Except for the data listed below all PSR-GX76 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 batteries is installed.

- *User Song Data*
- *Song Volume*
- *Registration Memory Data*
- *Registration Memory Bank Number*
- *Metronome Volume*
- *Touch On/Off*
- *Tuning*
- *Grade On/Off*
- *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 procedure is carried out.***
- ***Carrying out the data initialization procedure will usually restore normal operation if the PSR-GX76 freezes or begins to act erratically for any reason.***

■ TROUBLESHOOTING

Problem	Possible Cause and Solution
When the PSR-GX76 is turned on or off, a popping sound is temporarily produced.	This is normal and indicates that the PSR-GX76 is receiving electrical power.
When using a mobile phone, noise is produced.	Using a mobile phone in close proximity to the PSR-GX76 may produce interference. To prevent this, turn off the mobile phone or use it further away from the PSR-GX76.
There is no sound even when the keyboard is played or when a song is being played back.	Check that nothing is connected to the PHONES/OUTPUT jack on the rear panel. When a set of headphones is plugged into this jack, no sound is output.
Playing keys in the right hand section of the keyboard does not produce any sound.	When using the Dictionary function, the keys in the right hand section are used only for entering the chord root and type.
The sound of the voices or rhythms seems unusual or strange.	The battery power is too low. Replace the batteries.
The auto accompaniment doesn't turn on, even when pressing the [ACMP ON/OFF] button.	Make sure the Style mode is active before using the auto accompaniment. Press the [STYLE] button to enable style operations.
The accompaniment or song does not play back even when pressing the [START/STOP] button.	When External Clock is set to style playback CANNOT be controlled from the PSR-GX76 panel controls.
The accompaniment does not sound properly.	Make sure that the Accompaniment Volume is set to an appropriate level. Make sure that the Split Point is set to an appropriate value.
When playing back one of the Pianist styles (#086 - #100), the rhythm cannot be heard.	This is normal. The Pianist styles have no drums or bass — only piano accompaniment. The accompaniment of the style can only be heard when accompaniment is set to ON and keys are played in the auto accompaniment section of the keyboard.
Not all of the voices seem to sound, or the sound seems to be cut off.	The PSR-GX76 is polyphonic up to a maximum of 32 notes. If the Dual voice or Split voice is being used and a style or song is playing back at the same time, some notes/sounds may be omitted (or "stolen") from the accompaniment or song.
A strange "flanging" or "doubling" sound occurs when using the PSR-GX76 with a sequencer. (This may also sound like a "dual" layered sound of two voices, even when Dual is turned off.)	When using the accompaniment with a sequencer, set MIDI Echo (or the relevant control) to "off." (Refer to the owner's manual of your particular device and/or software for details.)
The footswitch (for sustain) seems to produce the opposite effect. For example, pressing the footswitch cuts off the sound and releasing it sustains the sounds.	The polarity of the footswitch is reversed. Make sure that the footswitch plug is properly connected to the SUSTAIN jack before turning on the power.
The sound of the voice changes from note to note.	The AWM tone generation method uses multiple recordings (samples) of an instrument across the range of the keyboard; thus, the actual sound of the voice may be slightly different from note to note.

YAMAHA [Portable Keyboard] Date: 26-JAM-2000
Model: PSR-GX76

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	×	×	
	Altered	**********	×	
Note Number:		0-127	0-127	
	True voice	**********	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	×	×	
	Ch's	×	×	
Pitch Bend		O	O	
Control Change	0, 32	O	O	Bank Select
	1	× *2	O	Modulation wheel
	6, 38	× *2	O	Data Entry
	7	O	O	Part Volume
	10	×	O	Pan
	11	× *2	O	Expression
	64	O	O	Sustain
	84	× *2	O	Portamento cntrl
	91, 93, 94	×	O	Effect Depth
	96, 97	×	O	RPN Inc, Dec
	100, 101	× *2	O	RPN LSB, MSB
Prog Change: True #		O 0-127 **********	O 0-127	
System Exclusive		O *3	O *3	
Common:	: Song Pos	×	×	
	: Song Sel	×	×	
	: Tune	×	×	
System:	Clock	O	×	
Real Time:	Commands	O *4	O *4	
Aux:	All Sound OFF	×	O (120, 126, 127)	
	: Reset All Cntrls	×	O (121)	
	: Local ON/OFF	×	×	
	: All Notes OFF	×	O (123-125)	
Mes-:	Active Sense	O	O	
sages:	Reset	×	×	

Notes
*1 = Received (transmitted) if switch is on.
*2 = Only "ESBL Part" can recognize.
*3 = m is always treated as "1" regardless of its value.
*4 = This function enables the Disklavier *Silent* to transmit and receive the position of the keys as independent additional information, instead of continuously transmitting "key aftertouch" data based on key pressure applied after the keys are played.

Mode 1: OMNI ON. POLY Mode 2: OMNI ON. MONO O: Yes
Mode 3: OMNI OFF. POLY Mode 4: OMNI OFF. MONO ×: No

PORTATONE

PSR-GX76

PARTS LIST

■ CONTENTS

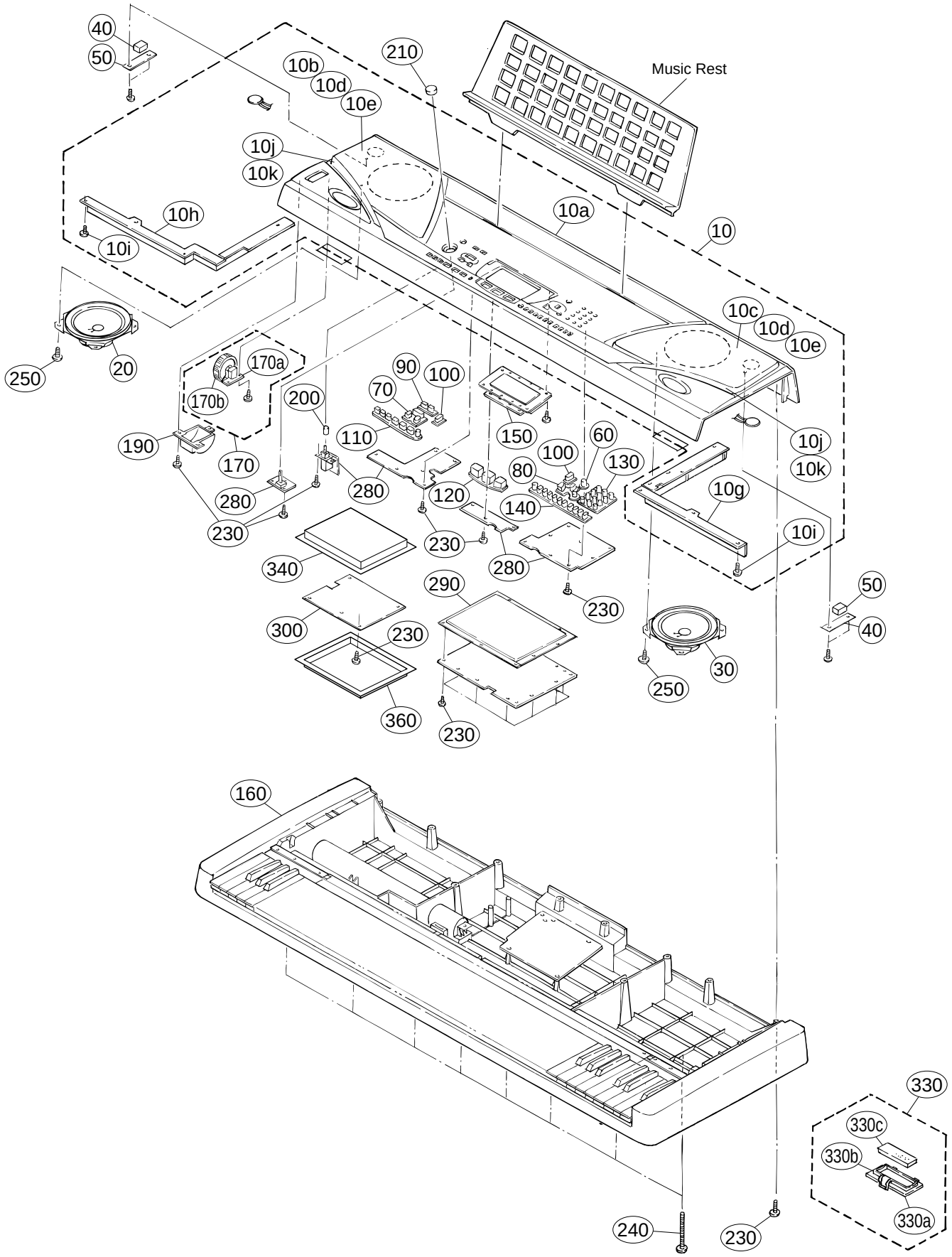
OVERALL ASSEMBLY 2
LOWER CASE ASSEMBLY 4
KEYBOARD ASSEMBLY 6
LCD UNIT 7
ELECTRICAL PARTS 8

Notes: DESTINATION ABBREVIATIONS

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

- The numbers in “QTY” show quantities for each unit.
- The parts with “--” in “Parts No.” are not available as spare parts.
- The mark “ } ” in the remarks column indicates that these parts are interchangeable.
- The second letter of the shaded ( ) part number is I, not one.

■ OVERALL ASSEMBLY

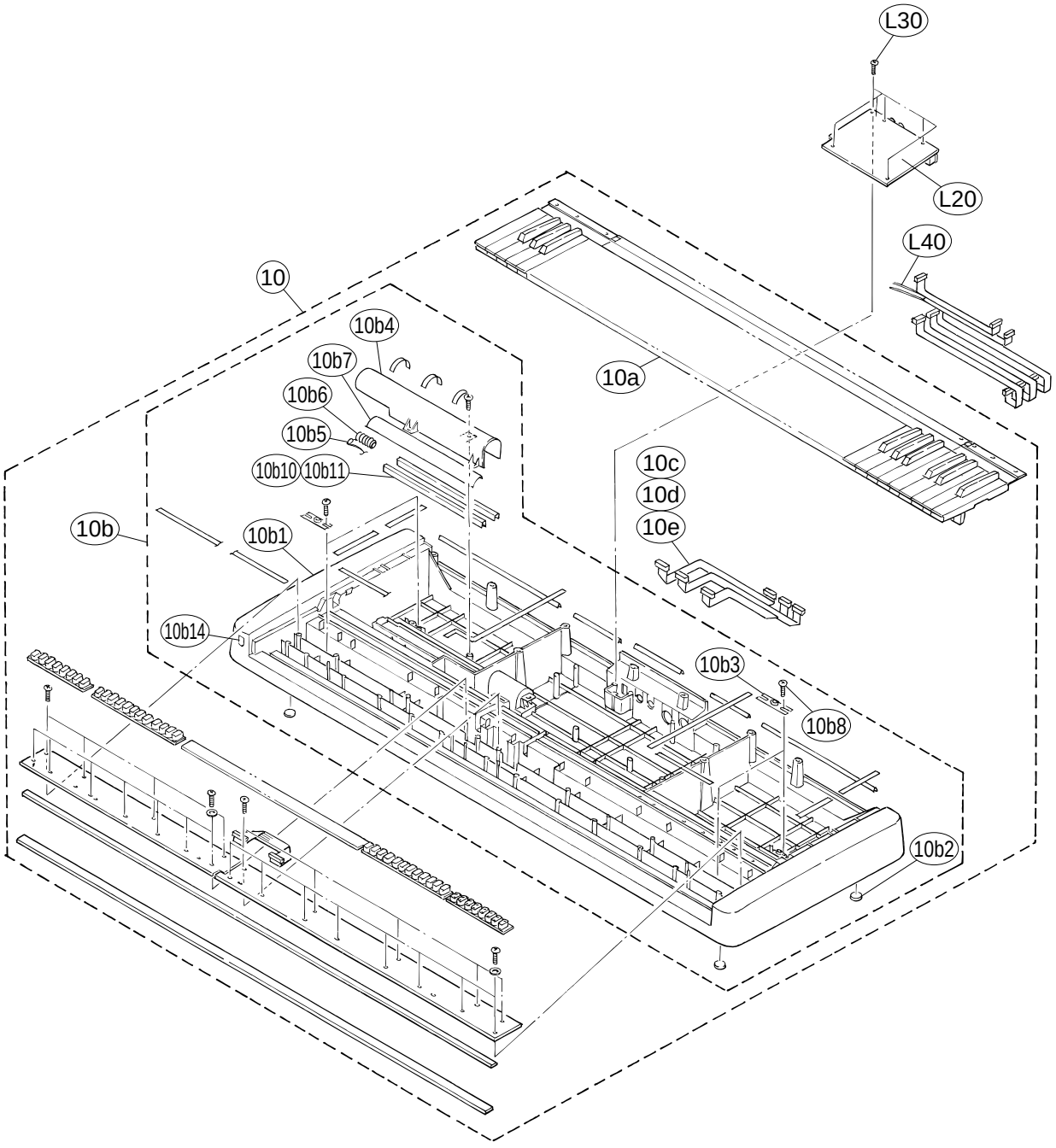


	REF NO.	PART NO.				REMARKS	QTY	RANK
			OVERALL Assembly			PSR-GX76		
		--	Overall Assembly	FE		(V544000)		
	10	--	Upper Case Assembly			(V544170)		
	10a	--	Upper Case			(V544160)		
	10b	--	Speaker Grille	Right		(V544240)		
	10c	--	Speaker Grille	Left		(V544250)		
	10d	--	Dust Proof Cloth	70 40		(V545310)	2	
	10e	--	Rib	Right		(V549260)		
	10f	--	Rib	Left		(V549280)		
	10g	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			11	01
*	10h	**V5053100**	Cushion	100X14XT2			2	
*	10i	**V5798900**	Cushion	30X10XT2			4	
	10j	**V6112700**	Spacer	L			2	
	10k	**V6112800**	Spacer	M			4	
	10l	**V6112900**	Spacer	S			4	
	10m	**V5799200**	Cushion	570X10XT1				
	10n	**V5799300**	Cushion	485X10XT1				
	20	**XT278A00**	Speaker	12.0CM 4 ohm 6W			2	06
	30	**XV947A00**	Speaker	3.0CM			2	03
	40	--	Band			(V364540)	2	
	50	--	Sponge			(V364550)	2	
*	60	**V5145600**	Panel Switch	A3		DEMO		
*	70	**V5145800**	Panel Switch	C		Dict, L, R		
*	80	**V5146100**	Panel Switch	F		Piano, METRONOME, DJ		
*	90	**V5146400**	Panel Switch	I		TOUCH, HARMORY		
*	100	**V5146500**	Panel Switch	J		Overall (left, Right)	2	
*	110	**V5146600**	Panel Switch	K		ACMP ON/OFF/A-B REPEAT, SYNC STOP, SYNC START/ ⏸ PAUSE, START/STOP, INTRO/ENDING/ ⏪ REW, MAIN/AUTO FILL/ ⏩ FF, TEMPO/TAP		
*	120	**V5146700**	Panel Switch	L		SONG, STYLE, VOICE		
*	130	**V5150100**	Panel Switch	M		Numeric keybpad, +/Yes, -/No		
*	140	**V5146900**	Panel Switch	N		RECORD, SONG MEMORY, REGISTRATION MEMORY		
	150	--	LCD Unit	PT		(V541510)		
	160	--	Lower Case Assembly			(V568160)		
	170	--	Wheel Assembly			(VT48770)		
	170a	**VT366400**	Wheel					03
	170b	**VT440100**	Spring					03
	180	--	Grease	G-31KA		(VE96850)		38
	190	--	Wheel Cover			(V545100)		
	200	**VQ218800**	Push Knob			STANDBY/ON		03
	210	**VU432400**	Volume Knob			MASTER VOLUME		01
	220	--	Label	FE		(V544450)		
	230	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			54	01
	240	**VU481600**	Bind Head Tapping Screw-B	3.0X25 MFZN2BL			8	01
	250	**EG340190**	Bind Head Tapping Screw-B	4.0X8 MFZN2BL			8	01
	260	**V5912400**	Adhesive Tape	12X90				03
	270	**VA126100**	Adhesive Tape	12X50			10	03
*	280	**V5427800**	Circuit Board	PN		(XY502A0)		
*	290	**V5427700**	Circuit Board	AM		(XY501C0)		
*	300	**V5427600**	Circuit Board	DM		(XY500B0)		
	330	**VI189900**	Battery Cover Black					03
	330a	**CB047850**	Battery Cover Black					02
	330b	**CB047750**	Battery Cushion Green					01
	330c	--	Vibration-proof Pad Black			(CA01485)	2	
	340	**V5275100**	Lower Sheeld Box					
	350	**V6113000**	Cushion	150X14XT1			2	
	360	**V5766600**	Upper Sheeld Box					
	370	**VQ074600**	Bind Head Tapping Screw-B	3.0X12 MFZN2BL			13	
*			ACCESSORIES					
*		**V5726800**	Music Rest					

*: New parts

RANK: Japan only

■ LOWER CASE ASSEMBLY

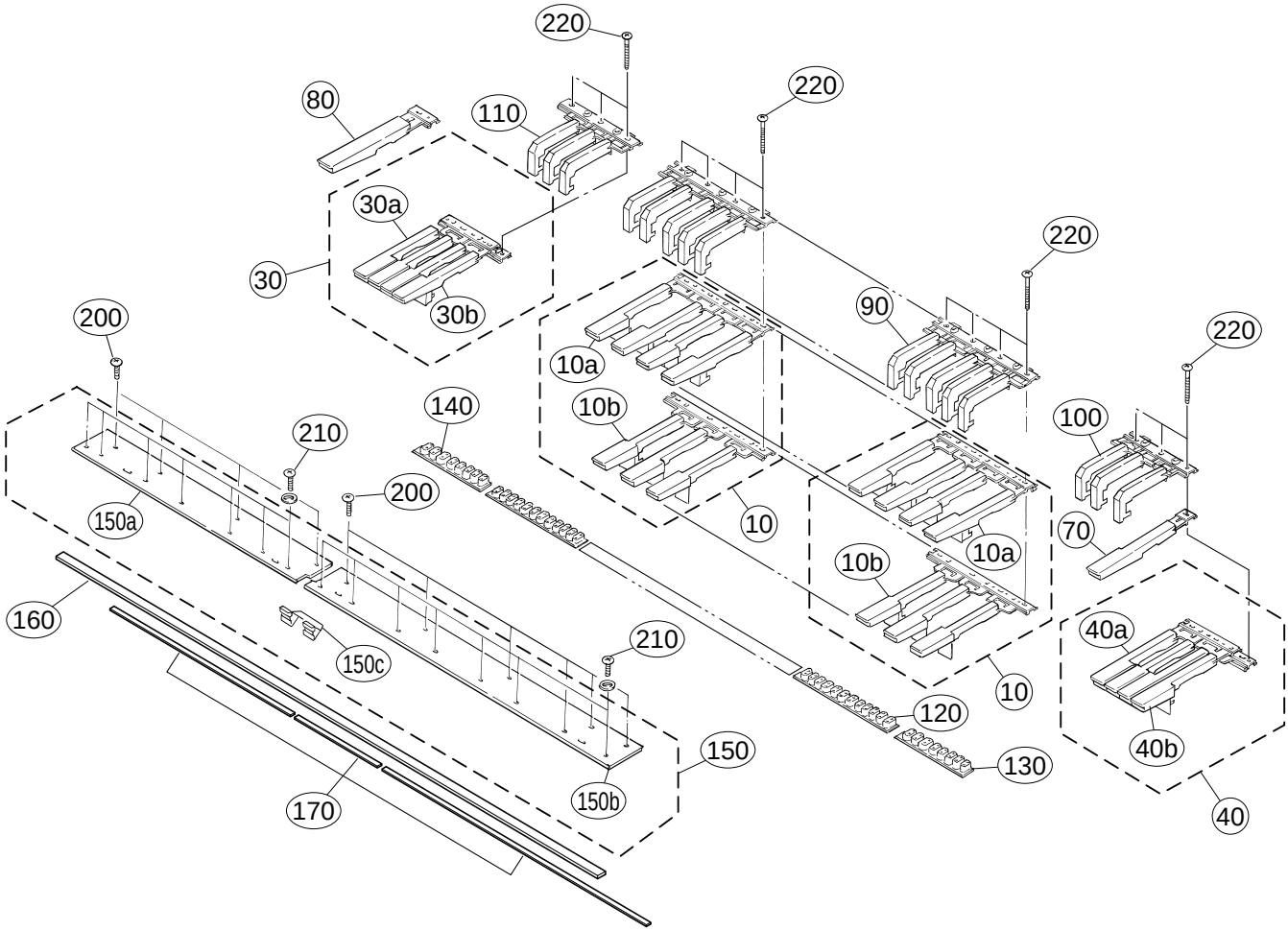


REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		LOWER CASE ASSEMBLY			PSR-XG76		
	--	Lower Case Assembly			(V568160)		
10	--	Lower Case Sub-Assembly			(V544490)		
10a	**V3410700**	Key Board	16N E76 P2M				24
10b	--	Lower Case			(V545110)		
10b1	--		YPR-50		(V647490)		
10b2	**CB043750**	Foot Black	T1.6			5	01
10b3	**AA056250**	Holder, Leg				4	01
10b4	**CB044900**	Battery Case Black					04
10b5	**BB005570**	Terminal					01
10b6	**AA054880**	Spring Terminal					02
10b7	--	Vibration-proof Tape Black			(VN40060)		
10b8	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			13	01
10b9	--	Cushion	100X10XT1		(V466910)	2	
10b10	--	Dust Proof Cloth	80X5X0.55		(V472440)	2	
10b11	--	Dust Proof Cloth	25X15X0.5		(V236140)		
10b12	--	Cushion	100X18XT2		(V650640)	3	
10b13	--	Dust Proof Cloth	290X28X0.55		(V529790)	2	
10b14	--	Cover			(V545090)		
10b15	--	Cushion	370X14XT2		(V579900)		
10b16	--	Cushion	295X14XT2		(V579910)		
10b17	--	Cushion	570X10XT1		(V579920)		
10b18	--	Cushion	485X10XT1		(V579930)		
10b19	--	Cushion	112X10XT1		(V580040)	2	
10c	--	Connector Assembly	JACK-MK 12P		(V544630)		
10d	--	Connector Assembly	JACK-MK 8P		(V544640)		
10e	--	Connector Assembly	JACK-MK 6P		(V544650)		
* L20	**V5427900**	Circuit Board	M/J		(XY503C0)		
L30	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			6	01
L40	--	Connector Assembly	JACK-PS 2P		(V544480)		
L50	**VN195400**	Adhesive Tape	12X70			2	03
L60	**VA126100**	Adhesive Tape	12X50			5	03

∗: New parts

RANK: Japan only

■ KEY BOARD ASSEMBLY



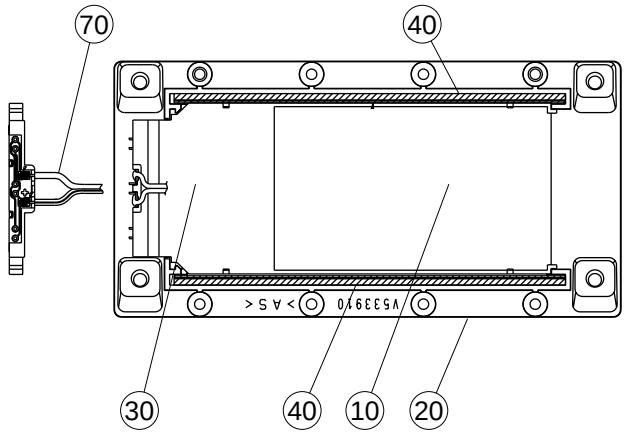
	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
			KEYBOARD			PSR-GX76		
		V3410700	Keyboard Assembly	16N E76 P2M				24
*	10	**V34107A0**	White Key	16N CEGBDFA			5	
	10a	--	White Key	16N CEGB		(V341260)	5	
	10b	--	White Key	16N DFA		(V341270)	5	
*	30	**V34107B0**	White Key	16N FGAB			5	
	30a	--	White Key	16N GB		(V341300)		
	30b	--	White Key	16N FA		(V341310)		
*	40	**V34107C0**	White Key	16N CDEF			5	
	40a	--	White Key	16N DF		(V341290)		
	40b	--	White Key	16N CE		(V341280)		
	70	**V3413200**	White Key	16N G				03
	80	**V3413300**	White Key	16N E				03
	90	**VZ271700**	Black Key	16N			5	06
	100	**V3413400**	Black Key	16N 76#H				05
	110	**V3413500**	Black Key	16N 76#L				05
	120	**V3413600**	Rubber Contact	16N-2M OCT 2M			5	04
	130	**V3413700**	Rubber Contact	16N-2M 76H 2M				04
	140	**V3413800**	Rubber Contact	16N-2M 76L 2M				04
	150	**V4045500**	MK Circuit Board Assembly	16N-2M E76 P2				11
	150a	**V3414200**	Circuit Board	76H		(XV814A0)		08
	150b	**V3414300**	Circuit Board	76L		(XV815A0)		08
	150c	--	Connector Assembly	16N-E76		(V341460)		
	150d	--	Felt White	1036 5		(V341390)		
	160	**V3414000**	Felt White	1036 11				03
	170	**V3414100**	Rubber Sheet	16N				01
	200	**EP600250**	Bind Head Tapping Screw-B	3.0X8 MFZN2Y			9	01
	210	**VZ313100**	Bind Head Tapping Screw-P	SP 3.0X12 MFZNBL			15	01
	220	**VT069800**	Bind Head Tapping Screw-P	3.0X20 MFZN2			26	01

*: New parts

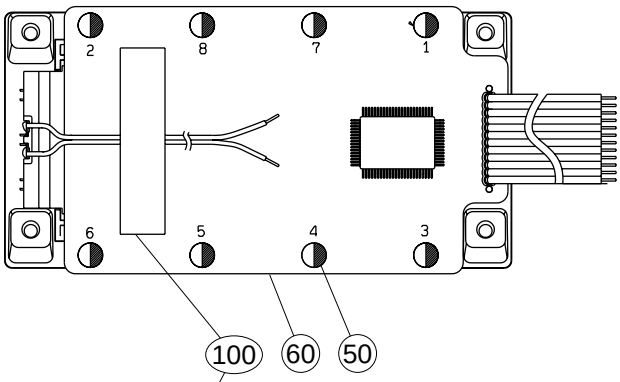
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■ LCD UNIT

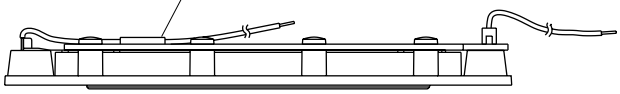
● **Top View**



● **Bottom View**



● **Side View**



	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
			LCD UNIT	PT		PSR-GX76		
		--	LCD Unit	PT		(V541510)		
	10	--	Back Right Assembly	TYPE-B		(V526500)		
	20	--	LCD Panel	TTR3828DPTDCN-C3		(V533910)		
	30	**V5264000**	LCD Display	SS-105L				
*	40	**V3755900**	Rubber Connector	PO-SS-105L			2	01
	40	**V5415400**	Rubber Connector	3.0X8 MFZN2Y			2	
*	50	**EP600280**	Bind Head Tapping Screw-P	LCD			8	01
	60	**V5478600**	Circuit Board	AM-LCD 2P		(XY504B0)		
*	70	--	Connector Assembly	12X50		(V544460)		
	100	**VA126100**	Adhesive Tape					03

*: New parts

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■ ELECTRICAL PARTS

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
			ELECTRICAL PARTS			PSR-GX76		
*		**V5427700**	Circuit Board	AM		(XY501C0)		
*		**V5427600**	Circuit Board	DM		(XY500B0)		
*		**V5478600**	Circuit Board	LCD		(XY504B0)		
*		**V5427900**	Circuit Board	M/J		(XY503C0)		
*		**V5427800**	Circuit Board	PN		(XY502A0)		
		V3414200	Circuit Board	76H		(XV814A0)		08
		V3414300	Circuit Board	76L		(XV815A0)		08
*		**V5427700**		AM		(XY501C0)		
		EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL				01
		--		G-746		(0412125)		
		VA078900	Jumper Wire	0.55				
	C0801	**UA354680**	Mylar Capacitor	0.0680 50V J				01
	C0802	**VR168700**	Monolithic Mylar Capacitor	ECQ-V1H224JL3				01
	C0803	**VR169000**	Monolithic Mylar Capacitor	ECQ-V1H334JL3				01
	C0804	**VR168900**	Monolithic Mylar Capacitor	ECQ-V1H274JL3				01
	C0805	**FG612470**	Ceramic Capacitor-B	470P 50V K				01
	C0806	**VT757800**	Monolithic Ceramic Cap.	1.000 25V Z				01
	C0806	**V6490000**	Monolithic Ceramic Cap.	1.000 25V Z				01
	C0807	**FG612470**	Ceramic Capacitor-B	470P 50V K				01
	C0810	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0811	**UA354680**	Mylar Capacitor	0.0680 50V J				01
	C0812	**VR168700**	Monolithic Mylar Capacitor	ECQ-V1H224JL3				01
	C0813	**VR169000**	Monolithic Mylar Capacitor	ECQ-V1H334JL3				01
	C0814	**VR168900**	Monolithic Mylar Capacitor	ECQ-V1H274JL3				01
	C0815	**FG612470**	Ceramic Capacitor-B	470P 50V K				01
	C0816	**VT757800**	Monolithic Ceramic Cap.	1.000 25V Z				01
	C0816	**V6490000**	Monolithic Ceramic Cap.	1.000 25V Z				01
	C0817	**FG612470**	Ceramic Capacitor-B	470P 50V K				01
	C0820	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0821	**UA654470**	Mylar Capacitor	0.0470 50V J				01
	C0822	**UA654470**	Mylar Capacitor	0.0470 50V J				01
	C0823	**UR837470**	Electrolytic Cap.	47.00 16.0V				01
	C0824	**UR846470**	Electrolytic Cap.	4.70 25.0V				01
	-0826	**UN846470**	Electrolytic Cap.-BP	4.70 25.0V				01
	C0831	**UA654470**	Mylar Capacitor	0.0470 50V J				01
	C0832	**UA654470**	Mylar Capacitor	0.0470 50V J				01
	C0833	**UR837470**	Electrolytic Cap.	47.00 16.0V				01
	C0834	**UR846470**	Electrolytic Cap.	4.70 25.0V				01
	-0836	**UN846470**	Electrolytic Cap.-BP	4.70 25.0V				01
	C0841	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0842	**UR827330**	Electrolytic Cap.	33.00 10.0V				01
	C0843	**UR865470**	Electrolytic Cap.	0.47 50.0V				01
	C0844	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0845	**UR848100**	Electrolytic Cap.	100.00 25.0V				01
	C0921	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0922	**UR867100**	Electrolytic Cap.	10.00 50.0V				01
	C0923	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0924	**UR867100**	Electrolytic Cap.	10.00 50.0V				01
	C0925	**UR749470**	Electrolytic Cap.	4700 25.0V				05
	C0931	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0932	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0933	**UR867100**	Electrolytic Cap.	10.00 50.0V				01
	C0941	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
	C0942	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
	C0944	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
	C0945	**UR837100**	Electrolytic Cap.	10.00 16.0V				01
	-0947	**UR867100**	Electrolytic Cap.	10.00 50.0V				01
	C0948	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0949	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0950	**UR837100**	Electrolytic Cap.	10.00 16.0V				01
	CN101	**VI878300**	Cable Holder	51048 5P TE				01
	CN801	**VK024800**	Wire Trap	52147 4P TE				01
	CN810	**VI878000**	Cable Holder	51048 2P TE				01
	CN820	**VK025100**	Wire Trap	52147 7P TE				01
	CN830	**VI878000**	Cable Holder	51048 2P TE				01
	CN911	**VK024800**	Wire Trap	52147 4P TE				01
	CN912	**VK024600**	Wire Trap	52147 2P TE				01
	CN913	**VF728300**	Wire Trap	52147 6P TE				01
*	HS001	**V2439000**	Heat Sink					
	IC800	**XQ619A00**	IC	LA4705NA		POWER AMP		05
	IC810	**XC520A00**	IC	UPC4570C		OP AMP		01
	IC820	**XC520A00**	IC	UPC4570C		OP AMP		01
	IC920	**XL450A00**	IC	PQ05RA1		REGULATOR +5V		03

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	IC930	**XT625A00**	IC	S-81250SGY-Z		REGULATOR +5V		02
	IC940	**XL450A00**	IC	PQ05RA1		REGULATOR +5V		03
	J0001	**VA078900**	Jumper Wire	0.55				
	J0003	**VA078900**	Jumper Wire	0.55				
	J0004	**VA078900**	Jumper Wire	0.55				
	R0801	**HF756330**	Carbon Resistor	3.3K 1/4 J				01
	R0802	**HF756680**	Carbon Resistor	6.8K 1/4 J				01
	R0803	**HF756560**	Carbon Resistor	5.6K 1/4 J				01
	R0804	**HF757150**	Carbon Resistor	15.0K 1/4 J				01
	R0805	**HF757150**	Carbon Resistor	15.0K 1/4 J				01
	R0807	**HF756680**	Carbon Resistor	6.8K 1/4 J				01
	R0808	**HF755220**	Carbon Resistor	220.0 1/4 J				01
	R0810	**HF756220**	Carbon Resistor	2.2K 1/4 J				01
	R0811	**HF756330**	Carbon Resistor	3.3K 1/4 J				01
	R0812	**HF756680**	Carbon Resistor	6.8K 1/4 J				01
	R0813	**HF756560**	Carbon Resistor	5.6K 1/4 J				01
	R0814	**HF757150**	Carbon Resistor	15.0K 1/4 J				01
	R0815	**HF757150**	Carbon Resistor	15.0K 1/4 J				01
	R0817	**HF756680**	Carbon Resistor	6.8K 1/4 J				01
	R0818	**HF755220**	Carbon Resistor	220.0 1/4 J				01
	R0820	**HF756220**	Carbon Resistor	2.2K 1/4 J				01
	R0821	**HF756330**	Carbon Resistor	3.3K 1/4 J				01
	R0822	**HF756330**	Carbon Resistor	3.3K 1/4 J				01
	R0823	**HF757100**	Carbon Resistor	10.0K 1/4 J				01
	R0824	**HF757100**	Carbon Resistor	10.0K 1/4 J				01
*	R0825	**VU317000**	Metal Oxide Film Resistor	0.1 1W J				
	R0826	**HF753220**	Carbon Resistor	2.2 1/4 J				01
	R0827	**HF753220**	Carbon Resistor	2.2 1/4 J				01
	R0828	**HF755100**	Carbon Resistor	100.0 1/4 J				01
	R0831	**HF756330**	Carbon Resistor	3.3K 1/4 J				01
	R0832	**HF756330**	Carbon Resistor	3.3K 1/4 J				01
	R0833	**HF757100**	Carbon Resistor	10.0K 1/4 J				01
	R0834	**HF757100**	Carbon Resistor	10.0K 1/4 J				01
*	R0835	**VU317000**	Metal Oxide Film Resistor	0.1 1W J				
	R0836	**HF753220**	Carbon Resistor	2.2 1/4 J				01
	R0837	**HF753220**	Carbon Resistor	2.2 1/4 J				01
	R0838	**HF755100**	Carbon Resistor	100.0 1/4 J				01
	R0840	**HF757100**	Carbon Resistor	10.0K 1/4 J				01
	R0941	**HF756470**	Carbon Resistor	4.7K 1/4 J				01
	R0942	**HF757100**	Carbon Resistor	10.0K 1/4 J				01
	R0943	**HF756470**	Carbon Resistor	4.7K 1/4 J				01
	R0945	**HF756560**	Carbon Resistor	5.6K 1/4 J				01
	R0946	**HF756560**	Carbon Resistor	5.6K 1/4 J				01
	R0950	**HF755120**	Carbon Resistor	120.0 1/4 J				01
	R0951	**HF755120**	Carbon Resistor	120.0 1/4 J				01
	R0952	**HF755120**	Carbon Resistor	120.0 1/4 J				01
	R0953	**HF755120**	Carbon Resistor	120.0 1/4 J				01
	TR001	**IC174070**	Transistor	2SC1740S R,S				
	WH100	**--**	Connector Assembly	DM-AM 5P		(V544520)		
	WH200	**--**	Connector Assembly	AM-Speaker-Right 2P		(V544470)		
	WH300	**--**	Connector Assembly	AM-Speaker-Lift 2P		(V573410)		
*		**V5427600**		DM		(XY500B0)		
		EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL				01
		--		G-746		(0412125)		
		VA078900	Jumper Wire	0.55				
	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
	C0201	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	C0202	**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
	C0501	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0502	**UR837470**	Electrolytic Cap.	47.00 16.0V				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
	C0506	**FG612220**	Ceramic Capacitor-B	220P 50V K				01
	C0507	**FG612220**	Ceramic Capacitor-B	220P 50V K				01
	C0508	**FG612330**	Ceramic Capacitor-B	330P 50V K				01
	C0509	**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	**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
	C0603	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	C0701	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	CA101	**VK994900**	Ceramic Capacitor Array	100P 50V M				02
	CA701	**VH484100**	Ceramic Capacitor Array	100P 50V M				02
	CA702	**VH484100**	Ceramic Capacitor Array	100P 50V M				02
	CL001	**V2192500**	Ceramic Resonator	8.4672M CST8.46MT				01
	CN101	**VK024900**	Wire Trap	52147 5P TE				01
	CN102	**VF728300**	Wire Trap	52147 6P TE				01
	CN501	**VK024800**	Wire Trap	52147 4P TE				01
	CN601	**VF728300**	Wire Trap	52147 6P TE				01
	CN701	**VK025600**	Wire Trap	52147 12P TE				01
	CN702	**VK025800**	Wire Trap	52147 14P TE				01
	CN703	**VK024700**	Wire Trap	52147 3P TE				01
	D0601	**VB941200**	Diode	1SS133,1SS176				01
	IC101	**XU947C00**	IC	HG73C205AFD		SWX00B		09
	IC102	**XT333A00**	IC	UPC29M33HF		REGULATOR +3.3V		03
	IC103	**XR902A00**	IC	IC-PST591D-2		RESET		02
*	IC201	**XY539100**	IC			WAVE ROM 32M		
*	IC201	**XY539A00**	IC			WAVE ROM 32M		
*	IC301	**XW486A00**	IC	M5M51008CFP-55H		SRAM 1M		
*	IC301	**XY909A00**	IC	UPD431000AGW		SRAM 1M		
*	IC302	**XW486A00**	IC	M5M51008CFP-55H		SRAM 1M		
*	IC302	**XY909A00**	IC	UPD431000AGW		SRAM 1M		
	IC501	**XR998A00**	IC	UPD6379AGR		D/A CONVERTER		04
	IC502	**XC520A00**	IC	UPC4570C		OP AMP		01
	IC601	**VG181900**	Photo Coupler	PC-900V				03
	IS201	**VK863100**	IC Socket	DICF-42CS-E				03
	IS202	**VK863100**	IC Socket	DICF-42CS-E				03
	J0104	**VA078900**	Jumper Wire	0.55				
	J0105	**VA078900**	Jumper Wire	0.55				
	J0201	**VA078900**	Jumper Wire	0.55				
	J0501	**VA078900**	Jumper Wire	0.55				
	J0601	**VA078900**	Jumper Wire	0.55				
	L0101	**VB835000**	Coil	FL5R200QNT 20uH				01
	L0101	**VF968800**	Coil	SBT-0260TF 60uH				01
	L0102	**VB835000**	Coil	FL5R200QNT 20uH				01
	L0102	**VF968800**	Coil	SBT-0260TF 60uH				01
	L0103	**VA078900**	Jumper Wire	0.55				
	L0104	**VA078900**	Jumper Wire	0.55				
	L0105	**VB835000**	Coil	FL5R200QNT 20uH				01
	L0105	**VF968800**	Coil	SBT-0260TF 60uH				01
	L0106	**VB835000**	Coil	FL5R200QNT 20uH				01
	L0106	**VF968800**	Coil	SBT-0260TF 60uH				01
	L0107	**VB835000**	Coil	FL5R200QNT 20uH				01
	L0107	**VF968800**	Coil	SBT-0260TF 60uH				01
	L0108	**VB835000**	Coil	FL5R200QNT 20uH				01
	L0108	**VF968800**	Coil	SBT-0260TF 60uH				01
	L0109	**VB835000**	Coil	FL5R200QNT 20uH				01
	L0109	**VF968800**	Coil	SBT-0260TF 60uH				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	**HF755100**	Carbon Resistor	100.0 1/4 J				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R0108	**HF755100**	Carbon Resistor	100.0 1/4 J				01
	R0110	**HF757470**	Carbon Resistor	47.0K 1/4 J				01
	R0111	**HF755100**	Carbon Resistor	100.0 1/4 J				01
	R0112	**HF755100**	Carbon Resistor	100.0 1/4 J				01
	R0114	**HF755100**	Carbon Resistor	100.0 1/4 J				01
	R0115	**HF757470**	Carbon Resistor	47.0K 1/4 J				01
	R0116	**HF757470**	Carbon Resistor	47.0K 1/4 J				01
	R0117	**HF758100**	Carbon Resistor	100.0K 1/4 J				01
	R0118	**HF758100**	Carbon Resistor	100.0K 1/4 J				01
	R0119	**HF757470**	Carbon Resistor	47.0K 1/4 J				01
	R0301	**HF757470**	Carbon Resistor	47.0K 1/4 J				01
	R0302	**HF755100**	Carbon Resistor	100.0 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
	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
	R0712	**HF755220**	Carbon Resistor	220.0 1/4 J				01
	-0721	**HF755220**	Carbon Resistor	220.0 1/4 J				01
	R0722	**HF757100**	Carbon Resistor	10.0K 1/4 J				01
	RA701	**VF238600**	Resistor Array	RGLE8X473J				01
	TR601	**IC174070**	Transistor	2SC1740S R,S				01
	TR602	**IC174070**	Transistor	2SC1740S R,S				01
*		**V5478600**	Circuit Board	LCD		(XY504B0)		
	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	KS0066U-10B		LCD DRIVER		05
	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	DM-LCD 12P		(V544510)		
*		**V5427900**	Circuit Board	M/J		(XY503C0)		
		VA078900	Jumper Wire	0.55				
	C0001	**FG651220**	Ceramic Capacitor-SL	22P 50V J				01
	C0002	**FG651220**	Ceramic Capacitor-SL	22P 50V J				01
	C0003	**UR828100**	Electrolytic Cap.	100.00 10.0V				01
	C0004	**VD930900**	Semiconductive Cera. Cap.	0.1000 25V M				01
	C0005	**FG612470**	Ceramic Capacitor-B	470P 50V K				01
	C0006	**FG612470**	Ceramic Capacitor-B	470P 50V K				01
	C0601	**VC694800**	Semiconductive Cera. Cap.	0.1000 25V Z				01
	CA001	**VP755200**	Ceramic Capacitor Array	100P 50V K				02
	CA002	**VT487100**	Ceramic Capacitor Array	470P X12				02
	CL001	**VN002100**	Ceramic Resonator	CST8.00MTW140				02
	CL001	**VQ305500**	Ceramic Resonator	8.00M EFOEC8004T3				02
	CN100	**VI878400**	Cable Holder	51048 6P TE				01
	CN110	**VF728300**	Wire Trap	52147 6P TE				01
	CN120	**VK025200**	Wire Trap	52147 8P TE				01
	CN130	**VK025600**	Wire Trap	52147 12P TE				01
	CN601	**VI878400**	Cable Holder	51048 6P TE				01
	CN602	**VI878500**	Cable Holder	51048 7P TE				01
	CN603	**VI878400**	Cable Holder	51048 6P TE				01
	CN910	**LB918020**	Base Post Connector	XH 2P TE				01
	D0001	**VL723600**	Diode	20E1-FC4				01
	D0002	**VL723600**	Diode	20E1-FC4				01
*	IC001	**XY512A00**	IC	HD63B05V0F11P		CPU		
	JK620	**VC687500**	Phone Jack	YKB21-5014				01
	JK630	**VJ107200**	DIN Connector	5P YKF51-5050				01
	JK640	**VJ107200**	DIN Connector	5P YKF51-5050				01
	JK800	**LB101870**	Phone Jack	YKB21-5006				03
	JK900	**LB302260**	Connector	HEC0470-01-630				01
	L0621	**VB835000**	Coil	FL5R200QNT 20uH				01
	L0621	**VF968800**	Coil	SBT-0260TF 60uH				01
	L0622	**VB835000**	Coil	FL5R200QNT 20uH				01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS		QTY	RANK
	L0622	**VF968800**	Coil	SBT-0260TF 60uH					01
	L0631	**VB835000**	Coil	FL5R200QNT 20uH					01
	L0631	**VF968800**	Coil	SBT-0260TF 60uH					01
	L0632	**VB835000**	Coil	FL5R200QNT 20uH					01
	L0632	**VF968800**	Coil	SBT-0260TF 60uH					01
	L0633	**VB835000**	Coil	FL5R200QNT 20uH					01
	L0633	**VF968800**	Coil	SBT-0260TF 60uH					01
	L0641	**VB835000**	Coil	FL5R200QNT 20uH					01
	L0641	**VF968800**	Coil	SBT-0260TF 60uH					01
	L0642	**VB835000**	Coil	FL5R200QNT 20uH					01
	L0642	**VF968800**	Coil	SBT-0260TF 60uH					01
	L0643	**VB835000**	Coil	FL5R200QNT 20uH					01
	L0643	**VF968800**	Coil	SBT-0260TF 60uH					01
	L0651	**VB835000**	Coil	FL5R200QNT 20uH					01
	L0651	**VF968800**	Coil	SBT-0260TF 60uH					01
	L0652	**VB835000**	Coil	FL5R200QNT 20uH					01
	L0652	**VF968800**	Coil	SBT-0260TF 60uH					01
	L0653	**VB835000**	Coil	FL5R200QNT 20uH					01
	L0653	**VF968800**	Coil	SBT-0260TF 60uH					01
	L0654	**VB835000**	Coil	FL5R200QNT 20uH					01
	L0654	**VF968800**	Coil	SBT-0260TF 60uH					01
	L0655	**VB835000**	Coil	FL5R200QNT 20uH					01
	L0655	**VF968800**	Coil	SBT-0260TF 60uH					01
	R0001	**HF456470**	Carbon Resistor	4.7K 1/4 J					01
	-0003	**HF457470**	Carbon Resistor	47.0K 1/4 J					01
	R0651	**HF755330**	Carbon Resistor	330.0 1/4 J					01
	R0652	**HF755330**	Carbon Resistor	330.0 1/4 J					01
	RA001	**VH373200**	Resistor Array	RGLE12X473J					01
	TH651	**VU847300**	Poly Switch	RUE185 1.85A 30V					03
	WH110	**--**	Connector Assembly	DM-JACK 6P			(V544530)		
	WH120	**--**	Connector Assembly	AM-JACK 7P			(V544610)		
	WH130	**--**	Connector Assembly	AM PS 6P			(V544620)		
*	WH140	**V6175000**	Connector Assembly	DM-MKS					
*		**V5427800**	Circuit Board	PN			(XY502A0)		
	CN501	**VI878200**	Cable Holder	51048 4P TE					01
	CN701	**VI879200**	Cable Holder	51048 14P TE					01
	CN703	**VI878700**	Cable Holder	51048 9P TE					01
	CN704	**VI878700**	Cable Holder	51048 9P TE					01
	CN705	**VI878200**	Cable Holder	51048 4P TE					01
	CN706	**VI878200**	Cable Holder	51048 4P TE					01
	CN707	**VI878100**	Cable Holder	51048 3P TE					01
	CN801	**VI878200**	Cable Holder	51048 4P TE					01
	CN911	**VI878200**	Cable Holder	51048 4P TE					01
	D0001	**VB941200**	Diode	1SS133,1SS176					01
	-0008	**VB941200**	Diode	1SS133,1SS176					01
	SW060	**VY980400**	Push Switch	SDDLB1 J,UC,CEE		STANDBY/ON			03
	VR001	**VZ048400**	Rotary Variable Resistor	A10.0K XV0141GPVN2		MASTER VOLUME			02
	VR002	**VT432100**	Rotary Variable Resistor	B10K EVJ05DF25B14		PITCH BEND			03
	WH010	**--**	Connector Assembly	DM-PN-R 14P			(V544560)		
	WH020	**--**	Connector Assembly	PN-R-PN-L 9P			(V547740)		
	WH030	**--**	Connector Assembly	PN-L-PN-C 4P			(V547750)		
	WH040	**--**	Connector Assembly	DM-VR 4P			(V544570)		
	WH050	**--**	Connector Assembly	AM-VR 4P			(V544600)		
	WH060	**--**	Connector Assembly	AM-PSW 4P			(V544590)		
	WH070	**--**	Connector Assembly	DM-PB 3P			(V544580)		
		V3414200	Circuit Board	76H			(XV814A0)		08
	2	**VB941200**	Diode	1SS133,1SS176					01
	3	**VK025200**	Wire Trap	52147 8P TE					01
	4	**VK025600**	Wire Trap	52147 12P TE					01
		V3414300	Circuit Board	76L			(XV815A0)		08
	2	**VB941200**	Diode	1SS133,1SS176					01
	3	**VF728300**	Wire Trap	52147 6P TE					01
	4	**VK025600**	Wire Trap	52147 12P TE					01
*		**V5264000**	LCD Display	TTR3828DPTDCN-C3					
		XT278A00	Speaker	12.0CM 4 ohm 6W					06
		XV947A00	Speaker	3.0CM					03

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■PSR-GX76 OVERALL CIRCUIT DIAGRAM 1/1 (DM, AM, M/J, LCD, PN (L, C, R, PB, PW, VR), MK76H, MK76L)

DM

LCD

M/J

AM

PN (PNR)

PN (PNC)

PN (PNL)

PN (PB)

PN (PW)

PN (VR)

MK 76H

MK 76L

(ヒ): Ceramic Capacitor

(マ): Mylar Capacitor

(半 ヒ): Semiconductive Cera. Cap.

酒 金: Metal Oxide Film Resistor

•PQ05RA1 (XL450A00)
REGULATOR +5V
1: INPUT
2: OUTPUT
3: ON/OFF CONTROL

•µPC29M33HF (XT333A00)
REGULATOR +3.3V
1: INPUT
2: COMMON
3: OUTPUT

•S-81250SGY-Z (XT625A00)
REGULATOR +5V
1: GND
2: INPUT
3: OUTPUT

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