PSR-EW300

SERVICE MANUAL



PSR-EW300

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PK 001948

YAMAHA
HAMAMATSU, JAPAN

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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 authorization certification, recognition of any applicable technical capabilities, or establish a principal-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and changesin 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: This product contains chemicals known to the State of California to cause cancer, 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.

SAVING DATA



Be sure to perform it

Saving and backing up your data

Some data items are automatically saved as backup data in the internal memory even if you turn the power off. Saved data may be lost due to malfunction or incorrect operation. Save important data to external device such as a computer.

SPECIFICATIONS

			PSR-EW300
Product Name			Digital Keyboard
Size/Weight	Dimensions (W x D x H)		1152mm x 369mm x 118mm (45-3/8" x 14-1/2" x 4-5/8")
	Weight		6.2kg (13 lbs 11 oz.) (not including batteries)
Control Interface	Keyboard	Number of Keys	76
		Touch Response	Soft, Medium, Hard, Fixed
	Display	Type	LCD
		Backlight	Yes
		Language	English
	Panel	Language	English
Voices	Tone Generation	Tone Generation Technology	AWM Stereo Sampling
	Polyphony (max.)		48
	Preset	Number of Voices	574 (197 Panel Voices + 18 Drum/SFX kits + 20 Arpeggio + 339 XGlite Voices)
	Compatibility		GM/XGlite
Effects	Types	Reverb	12 types
		Chorus	5 types
		Master EQ	6 types
	Functions	Dual	Yes
		Split	Yes
		Panel Sustain	Yes
		Harmony	26 types
		Arpeggio	150 types
		Melody Suppressor	Yes
Accompaniment Styles	Preset	Number of Styles	165
		Fingering	Multi finger
		Style Control	ACMP ON/OFF, SYNC START, START/STOP, INTRO/ENDING/rit., MAIN/AUTO FILL
	External Styles		10
	Other Features	Music Database	158
		One Touch Setting (OTS)	Yes
	Compatibility		Style File Format (SFF)
Songs (MIDI)	Preset	Number of Preset Songs	154 (including Touch Tutor: 10, Chord Study: 12, Chord Progression: 30)
	Recording	Number of Songs	5
		Number of Tracks	2
		Data Capacity	Approx. 10,000 notes
	Format	Playback	SMF Formats 0 & 1
		Recording	Original File Format
Functions	Lesson		KEYS TO SUCCESS, Lesson 1–3 (Listening, Timing, Waiting), Phrase Repeat, A-B Repeat, Chord Dictionary, Touch Tutor, Chord Study, Chord Progression
	USB Audio (USB TO HOST)		44.1kHz, 16bit, stereo
	Registration Memory	Number of Buttons	9
	Overall Controls	Metronome	Yes
		Tempo Range	11–280
		Transpose	-12 to 0, 0 to +12
		Tuning	427.0–440.0–453.0 Hz (approx. 0.2Hz increments)
		Duo	Yes
	Miscellaneous	PIANO Button	Yes (Portable Grand Button)
Storage and Connectivity	Storage	Internal Memory	Approx. 1.3MB
	Connectivity	DC IN	12V
		Headphones/Output	Standard stereo phone jack (PHONES/OUTPUT)
		Sustain Pedal	Yes
		AUX IN	Yes (Stereo mini jack)
		USB TO HOST	Yes
Sound System	Amplifiers		2.5W + 2.5W
	Speakers		12cm x 2

Power Supply	Power Supply	AC Adaptor	Users within U.S or Europe: PA-130 or an equivalent recommended by Yamaha Others: PA-3C,PA-130 or an equivalent recommended by Yamaha
		Batteries	Six 1.5V "AA" size alkaline (LR6), manganese (R6) or six 1.2V "AA" size Ni-MH rechargeable batteries (HR6)
	Power Consumption		5W (When using PA-130 AC adaptor)
	Auto Power Off		Yes
Included Accessories			• Music rest • Owner's Manual • AC adaptor *1 (PA-130 or an equivalent recommended by Yamaha) • Online Member Product Registration *1: May not be included depending on your particular area. Please check with your Yamaha dealer.
Separately Sold Accessories (May not be available depending on your area.)			• AC adaptor: Users within U.S or Europe: PA-130 or an equivalent recommended by Yamaha Others: PA-3C, PA-130 or an equivalent recommended by Yamaha • Keyboard stand: L-2C • Headphones: HPH-50/HPH-100/HPH-150 • Footswitch: FC4A/FC5 • Wireless MIDI adaptor: UD-BT01

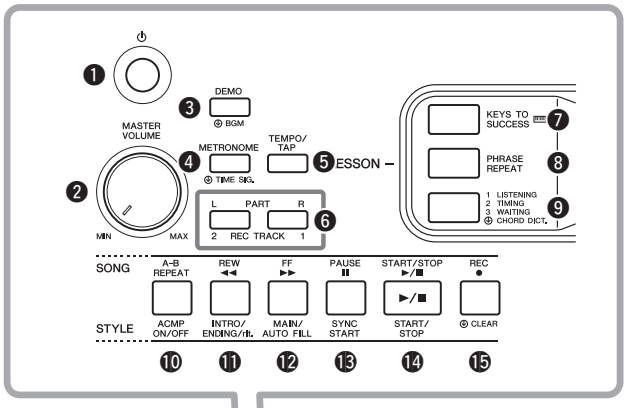
* The contents of this manual apply to the latest specifications as of the publishing date. To obtain the latest manual, access the Yamaha website then download the manual file. Since specifications, equipment or separately sold accessories may not be the same in every locale, please check with your Yamaha dealer.

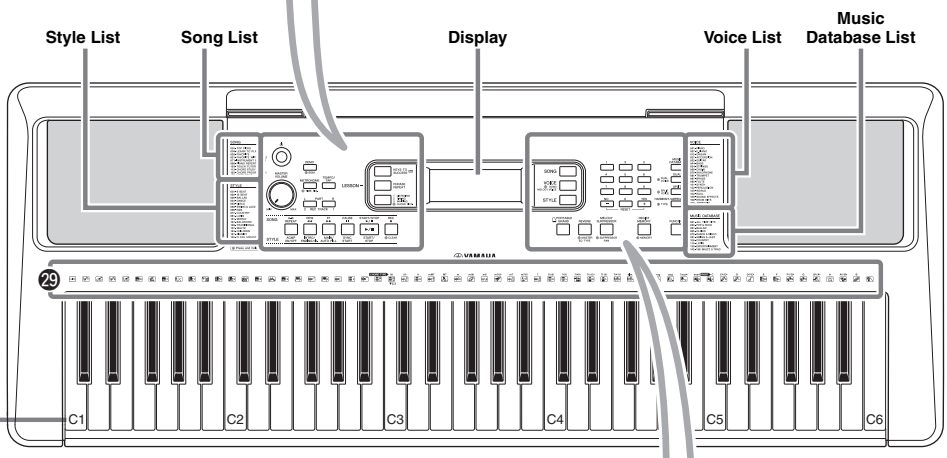
PANEL LAYOUT

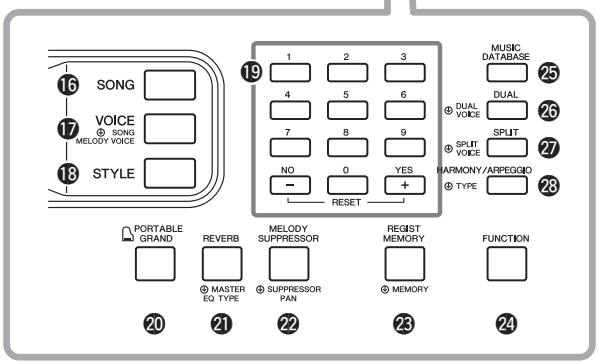
Front Panel

NOTE

- *The illustrations and displays as shown in this manual are based on the PSR-E363.*
- *Please note that the PSR-EW300, PSR-E363 and YPT-360 have different numbers of keys: the PSR-EW300 has 76 keys, and the PSR-E363 and YPT-360 have 61 keys.*







As illustrated, each note of the keyboard has a specific note number and name (e.g., 036/C1), which is used in making various settings, such as Split Point .

PSR-E363, YPT-360: 036 (C1) – 096 (C6)
PSR-EW300: 028 (E0) – 103 (G6)

❶ **[⏻] (Standby/On) switch**
❷ **[MASTER VOLUME] dial**
❸ **[DEMO] button**
❹ **[METRONOME] button**
❺ **[TEMPO/TAP] button**

In the Lesson mode

❻ **PART**
[L] button
[R] button

In the Recording mode

❻ **[REC TRACK 2] button**
[REC TRACK 1] button

---

❼ **[KEYS TO SUCCESS] button**
❽ **[PHRASE REPEAT] button**
❾ **[1 LISTENING 2 TIMING 3 WAITING] button**

In the Song mode

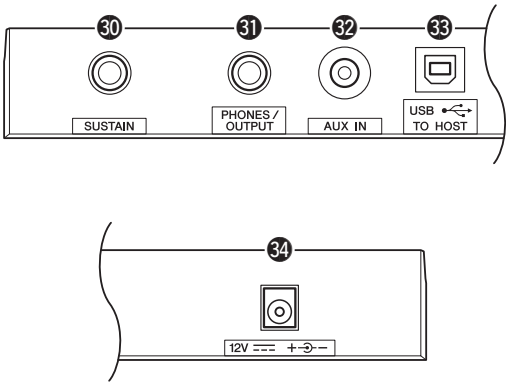
❿ **[A-B REPEAT] button**
⓫ **[REW] button**
⓬ **[FF] button**
⓭ **[PAUSE] button**

In the Style mode

❿ **[ACMP ON/OFF] button**
⓫ **[INTRO/ENDING/rit.] button**
⓬ **[MAIN/AUTO FILL] button**
⓭ **[SYNC START] button**

⓮ **[START/STOP] button**
⓯ **[REC] button**
⓰ **[SONG] button**
⓱ **[VOICE] button**
⓲ **[STYLE] button**
⓳ **Number buttons [0]–[9], [+], [-]**
⓴ **[PORTABLE GRAND] button**
㉑ **[REVERB] button**
㉒ **[MELODY SUPPRESSOR] button**
㉓ **[REGIST MEMORY] button**
㉔ **[FUNCTION] button**
㉕ **[MUSIC DATABASE] button**
㉖ **[DUAL] button**
㉗ **[SPLIT] button**
㉘ **[HARMONY/ARPEGGIO] button**
㉙ **Drum illustrations for the Drum Kit**
Each of these indicates the drum or percussion instrument assigned to the corresponding key for “Standard Kit 1.”

Rear Panel



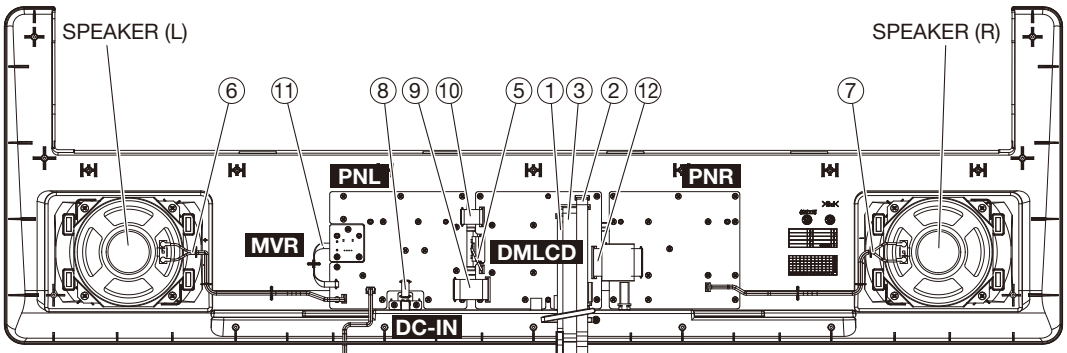
㉚ **[SUSTAIN] jack**
㉛ **[PHONES/OUTPUT] jack**
㉜ **[AUX IN] jack**
㉝ **[USB TO HOST] terminal***
* For connecting to a computer. For details, refer to “Computer-related Operations” (page 8) on the website. When connecting, use an AB type USB cable of less than 3 meters. USB 3.0 cables cannot be used.
㉞ **DC IN jack**

Panel Setup (Panel Settings)
By using the controls on the panel, you can make various settings as described here. These settings of the instrument are together referred to as “panel setup” or “panel settings” in this manual.

The “Press & Hold” Symbol
Buttons having this indication can be used to call up an alternate function when the relevant button is pressed and held. Hold down this button until the function is called up.

■ CIRCUIT BOARD LAYOUT & WIRING

UPPER CASE ASSEMBLY



LOWER CASE ASSEMBLY

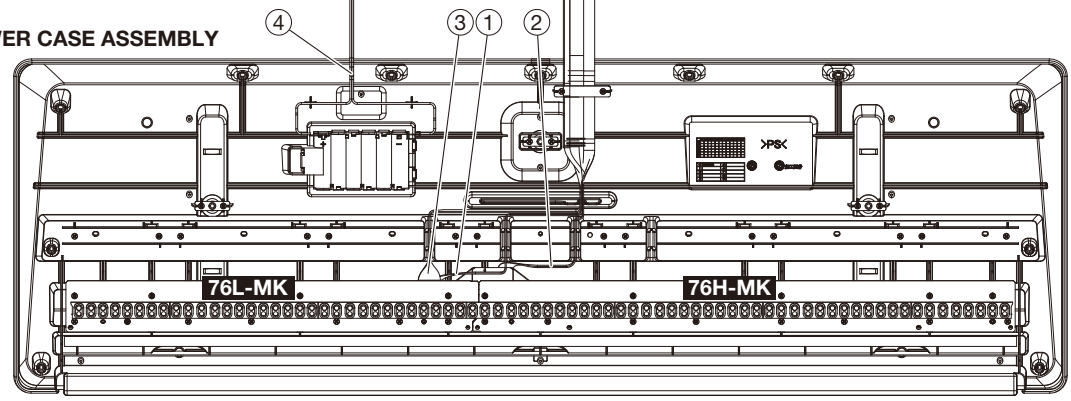


Table Wiring assemblies list

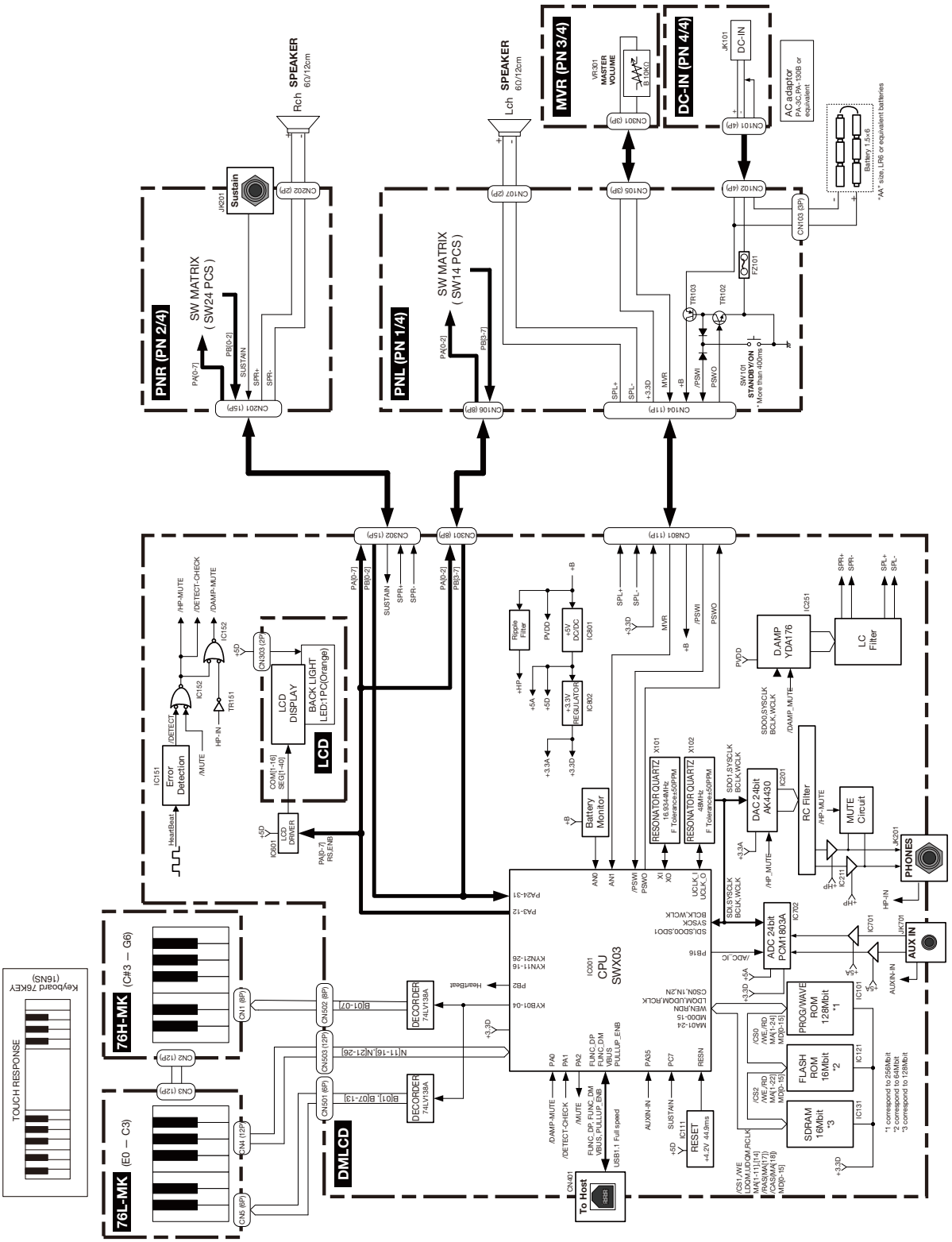
No.	Unit Name	Location	Part No.	Destination		Remarks
①	LOWER CASE	230	(ZA26340)	76L-MK-CN5	DMLCD-CN501	6P L=650
②	ASSEMBLY	220	(ZA26710)	76H-MK-CN1	DMLCD-CN502	8P L=600
③		210	(ZA27480)	76L-MK-CN4	DMLCD-CN503	12P L=650
④		250	(ZW77040)	BATTERY TERMINAL (+/-)	PNL-CN103	3P L=240
⑤	UPPER CASE	350	(WE14140)	BACK LIGHT ASSEMBLY (+/-)	DMLCD-CN303	2P L=70
⑥	ASSEMBLY	500	(ZW81460)	SPEAKER L (+\-)	PNL-CN107	2P L=270
⑦		510	(ZW81460)	SPEAKER R (+\-)	PNR-CN202	2P L=270
⑧	PNL and PNR	WH010	(ZA17370)	PNL-CN101	DC-IN (PNL)-CN102	4P L=50
⑨	CIRCUIT BOARD	WH020	(ZA18500)	PNL-CN104	DMLCD-CN801	11P L=75
⑩		WH030	(ZA18010)	PNL-CN106	DMLCD-CN301	8P L=50
⑪		WH040	(ZA17230)	PNL-CN105	MVR (PNL)-CN301	3P L=100
⑫		WH050	(ZW76710)	PNR-CN201	DMLCD-CN302	15P L=100

* The parts with "( )" in "Part No." are not available as spare parts.

Caution:

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

■ BLOCK DIAGRAM



■ DISASSEMBLY PROCEDURE

Caution:

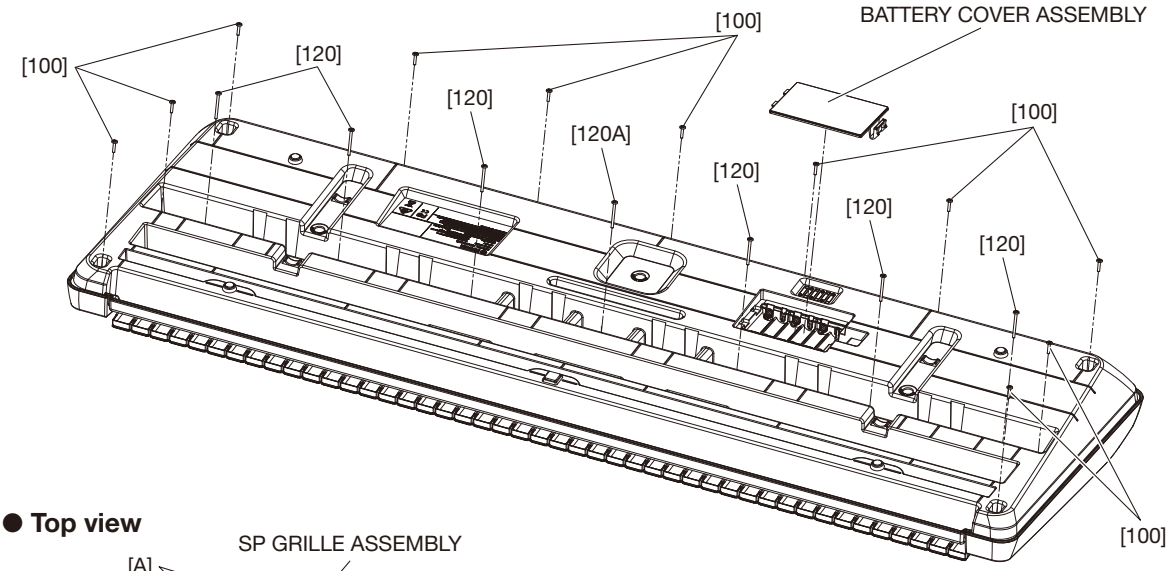
- Be sure to attach the removed filament tape just as it was before removal.

1. Lower Case Assembly (Tme required: About 3 minutes)

1. Remove the seven (7) screws marked [120] and the eleven (11) screws marked [100]. The lower case assembly can then be removed. (Fig.1)

* ***When installing the lower case assembly, first tighten the screw marked (120A) and then the remaining screws. (Fig.1)***

● **Bottom view**



● **Top view**

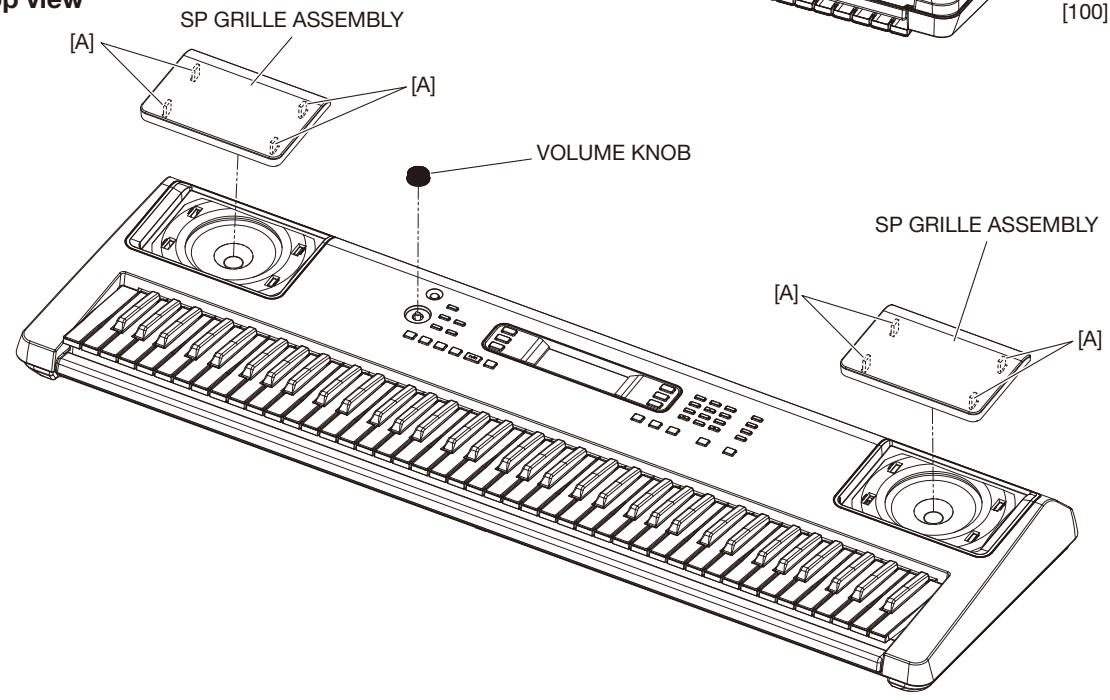


Fig.1

2. DMLCD Circuit Board (Time required: About 6 minutes)

1. Remove the lower case assembly. (See "procedure 1")
2. Remove the twelve (12) screws [380A], and remove the DMLCD circuit board. (Fig.2)

* ***When installing the DMLCD circuit board, tighten the screws 1 through 2 in numerical order. (Fig.2)***

* ***After replacing the DMLCD circuit board, execute "Factory Set" in the Test Program.***

● **Bottom view**

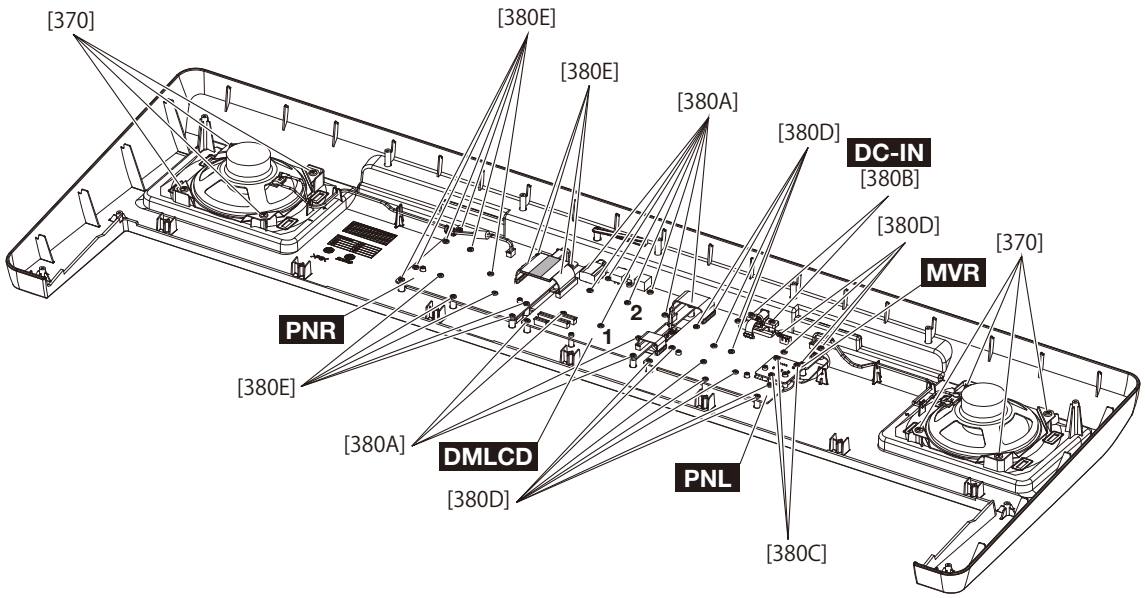


Fig.2

3. LCD (Time required: About 7 minutes)

1. Remove the lower case assembly. (See "procedure 1")
2. Remove the DMLCD circuit board. (See "procedure 2")
3. Remove the Back-light assembly. (Fig.3)
4. Remove the rubber connector. (Fig.3)
5. Remove the LCD. (Fig.3)

* ***Avoid touching the conductive part of the rubber connector as much as possible. Should foreign matter or dirt adhere, remove such contamination using adhesive tape or the like. Do not wipe off using solvents such as benzene or alcohol. (Fig.3)***

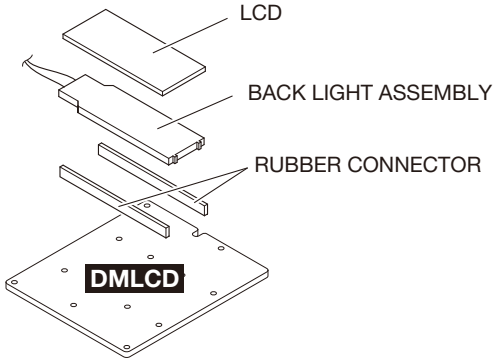


Fig.3

4. PNR Circuit Board, PNL Circuit Board, MVR Circuit Board, DC-IN Circuit Board

1. Remove the lower case assembly. (See "procedure 1")

- PNL, MVR Circuit Board (Time required: About 8 minutes)
  1. Remove the two (2) screws [380B], and remove the DC-IN circuit board. (Fig.2)
  2. Remove three (3) screws [380C], and remove the MVR Circuit Board. (Fig.2)
  3. Remove the knob from the control panel surface. (Fig.1, Fig.4)
  4. Remove sixteen (16) screws [380D], and remove the PNL Circuit Board. (Fig.2)
- PNR Circuit Board (Time required: About 6 minutes)
  1. Remove fifteen (15) screws [380E], and remove the PNR Circuit Board. (Fig.2)

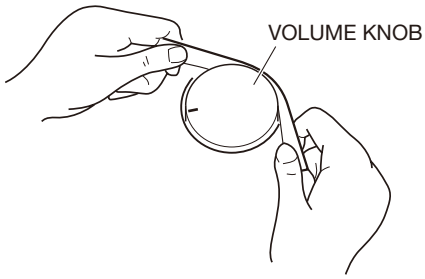


Fig.4

5. Speaker (Time required: About 4 minutes each)

1. Remove the lower case assembly. (See "procedure 1")
2. Remove the four (4) screws [370], and remove the speaker. (Fig.2)

* ***Remove the right and left speakers in the same way.***

6. SP Grille (Time required: About 4 minutes each)

1. Remove the lower case assembly. (See "procedure 1")
2. Release the four (4) claws marked [A] of the SP grille and remove the SP grille. (Fig.1)

* ***The right and left SP grilles can be removed in the same manner.***

* ***SP grilles can be changed without removing the lower case assembly.***

Tear the saran net. Release the four (4) claws marked [A] of the SP grille by pushing them with the slotted screwdriver to inward. Remove the SP grille. (Fig.5)

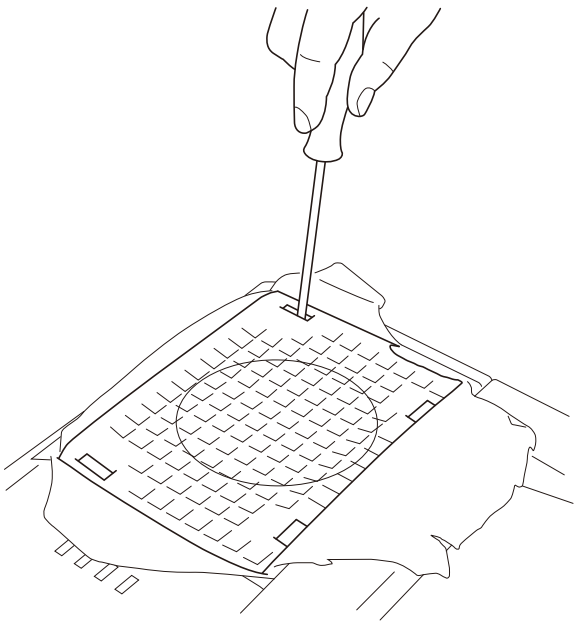


Fig.5

7. Disassembling the keyboard (time required: About 13 minutes)

1. Remove the lower case assembly. (See "procedure 1")

- White keys and black keys

    1. To remove a set of the white and black keys for one (1) octave (C through B), remove the two (2) each screws marked [210]. The white and black keys in the set can then be removed. (Fig.6)
    When removing, unfasten the two (2) hooks at the back of the black keys upward, and lift the white and black keys while pulling them toward you a little. (Photo 1)
    2. To remove the white and black keys from E0 to B0 and from C6 to G6, remove the two (2) each screws marked [210], unhook and lift them as described in Procedure 1. (Fig.6)

* ***To reassemble after all white and black keys have been removed, first, mount by aligning the C3 to B3 white and black keys with the boss, and then mount the remaining white and black keys. (Fig.6)***

* ***When installing all white and black keys, tighten the screws 1 through 14 in numerical order as shown in Fig.6. (Fig.6)***

- Rubber contacts

    1. Remove the white and black keys corresponding to the rubber contacts to be removed. (See Fig.6 and procedure 7"White Keys and Black Keys")
    2. Remove the respective rubber contacts (Fig.6)

● **Top view**

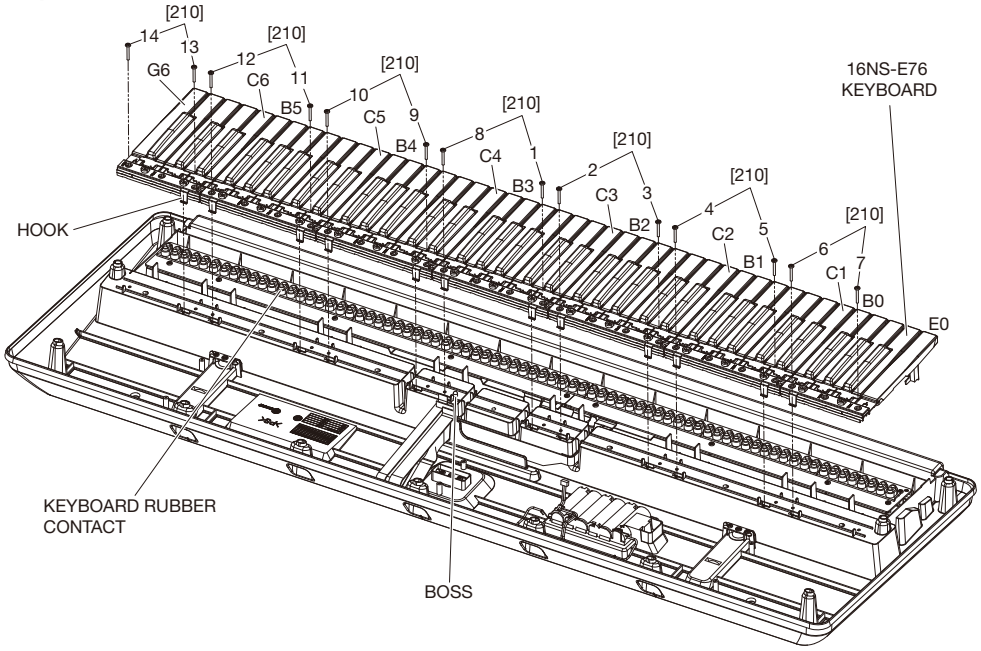


Fig.6

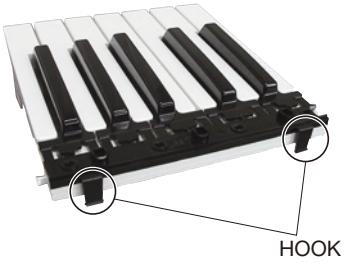


Photo.1

- Circuit Board 76L-MK
  1. Remove the E0 to B2 white and black keys. (See Fig.6 and procedure 7"White Keys and Black Keys")
  2. Remove the four (4) screws marked [200C] and seven (7) screws marked [200A]. The circuit board 76L-MK can then be removed. (Fig.7)

* ***When installing the circuit board 76L-MK, tighten the screws 1 through 11 in numerical order as shown in the figure "76L-MK" in Fig.7. (Fig.7)***

- Circuit Board 76H-MK
  1. Remove the C3 to G6 white and black keys. (See Fig.6 and procedure 7"White Keys and Black Keys")
  2. Remove the five (5) screws marked [200D] and eight (8) screws marked [200B]. The circuit board 76H-MK can then be removed. (Fig.7)

* ***When installing the circuit board 76H-MK, tighten the screws 1 through 13 in numerical order as shown in the figure "76H-MK" in Fig.7. (Fig.7)***

● Top view

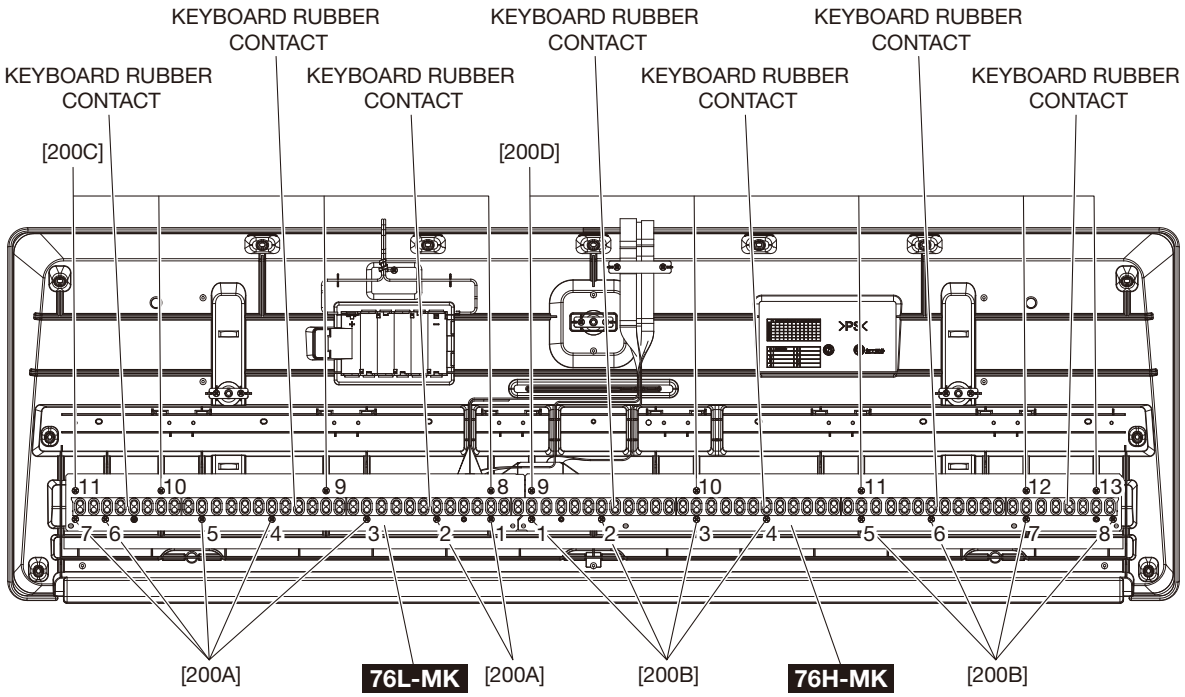


Fig.7

8. How to Remove Spring Terminals

- Spring Terminal A and Spring Terminal B (Time required: About 8 minutes)
  1. Remove the lower case assembly. (See "procedure 1")
  2. Remove the BATT ribbon cable soldered to spring terminals A and B. (Fig.8)
  3. Flip over the lower case assembly, and remove the battery cover assembly. (Fig.1)
  4. Spring terminal A is removed by slowly lifting upward and then sliding to the top right. (Fig.8)
  5. To remove spring terminal B, release the hook, and pull it out from the inside. (Fig.8)
- Spring terminal C and spring terminal D (Time required: About 1 minute each)
  1. Remove the battery cover assembly. (See ""Spring Terminal A and Spring Terminal B"")
  2. Release the hooks, and pull out spring terminals C and D. (Fig.8)

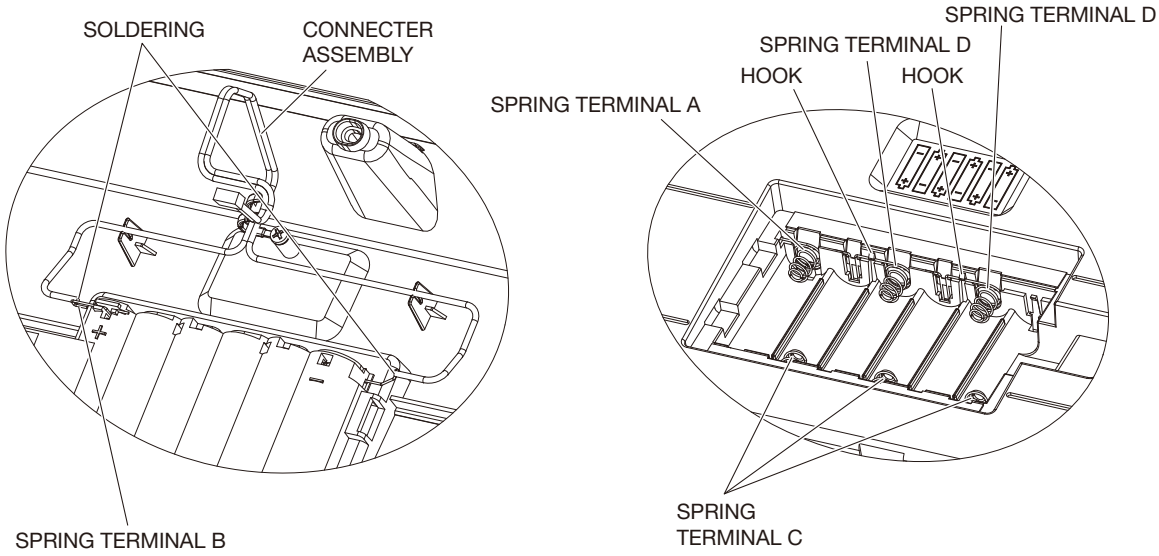


Fig.8

■ CIRCUIT BOARDS

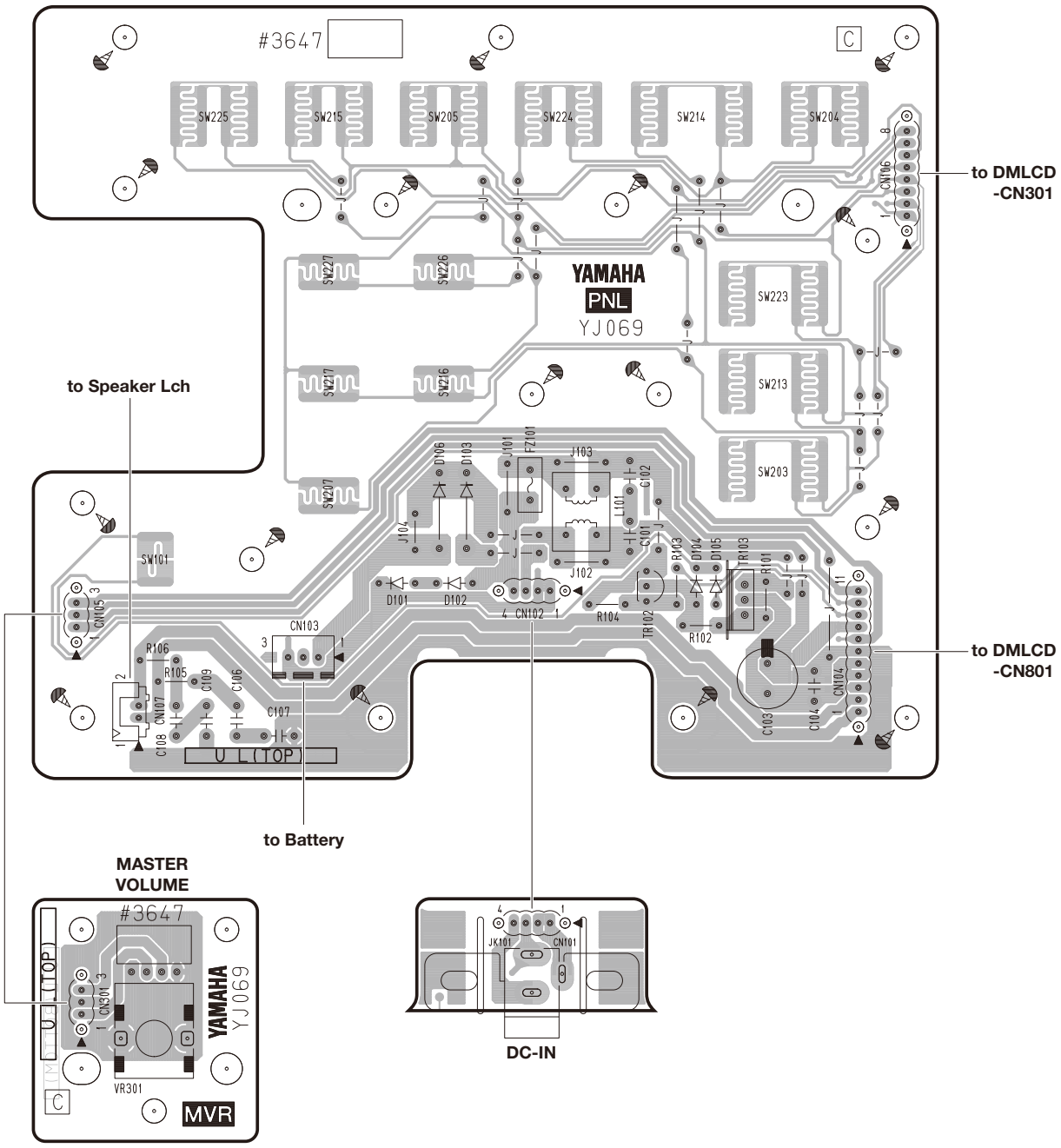
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Note:

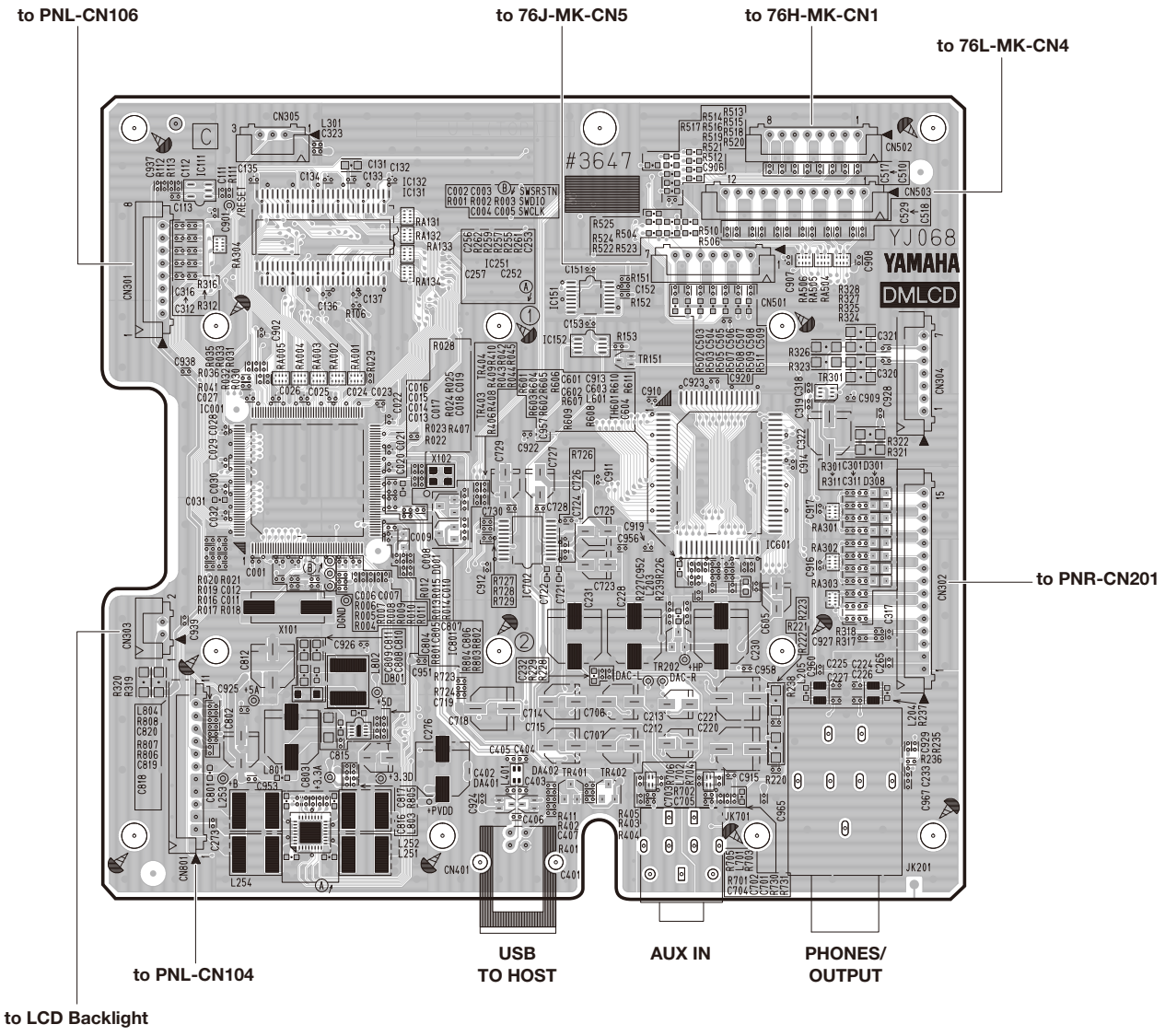
- See parts list for details of circuit board component parts.

● **PNL with MVR/DC-IN Circuit Board (YJ069C0)**

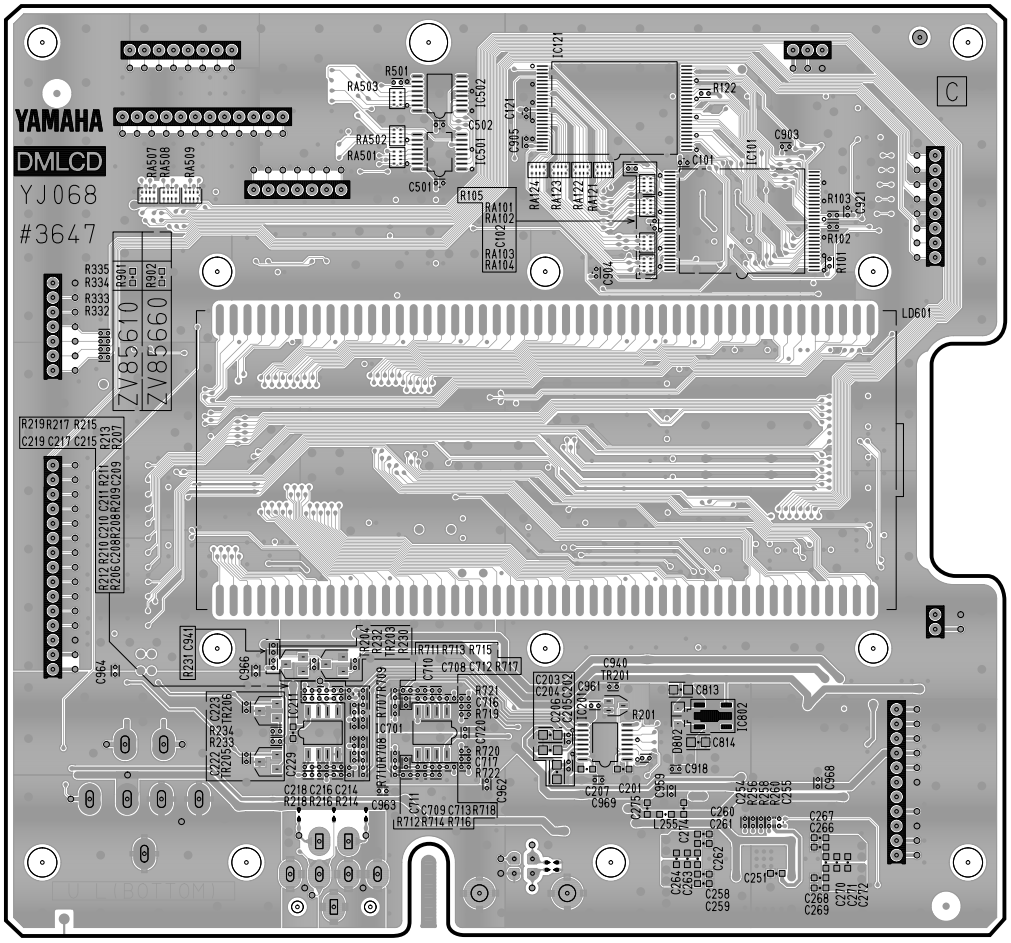


Component Side
2NA-ZV85640 △2

● DMLCD Circuit Board (YJ068C0)

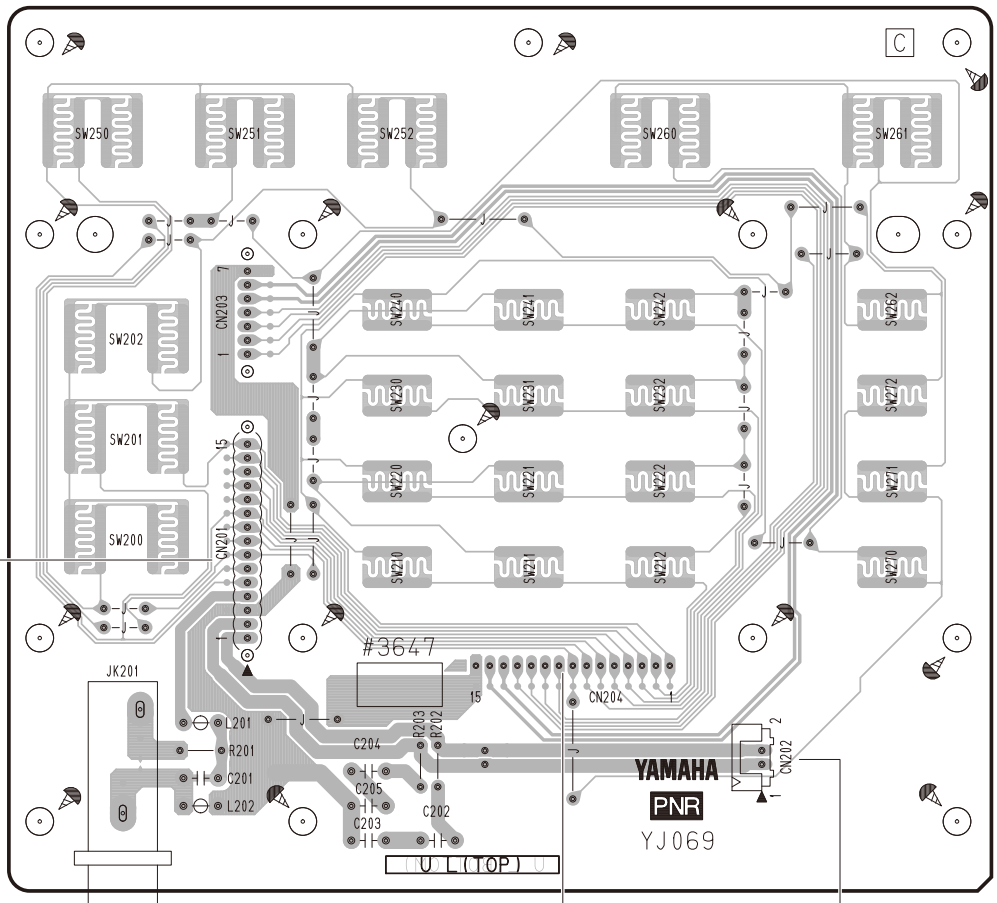


Component Side
2NA-ZV85670



Pattern Side
2NA-ZV85670

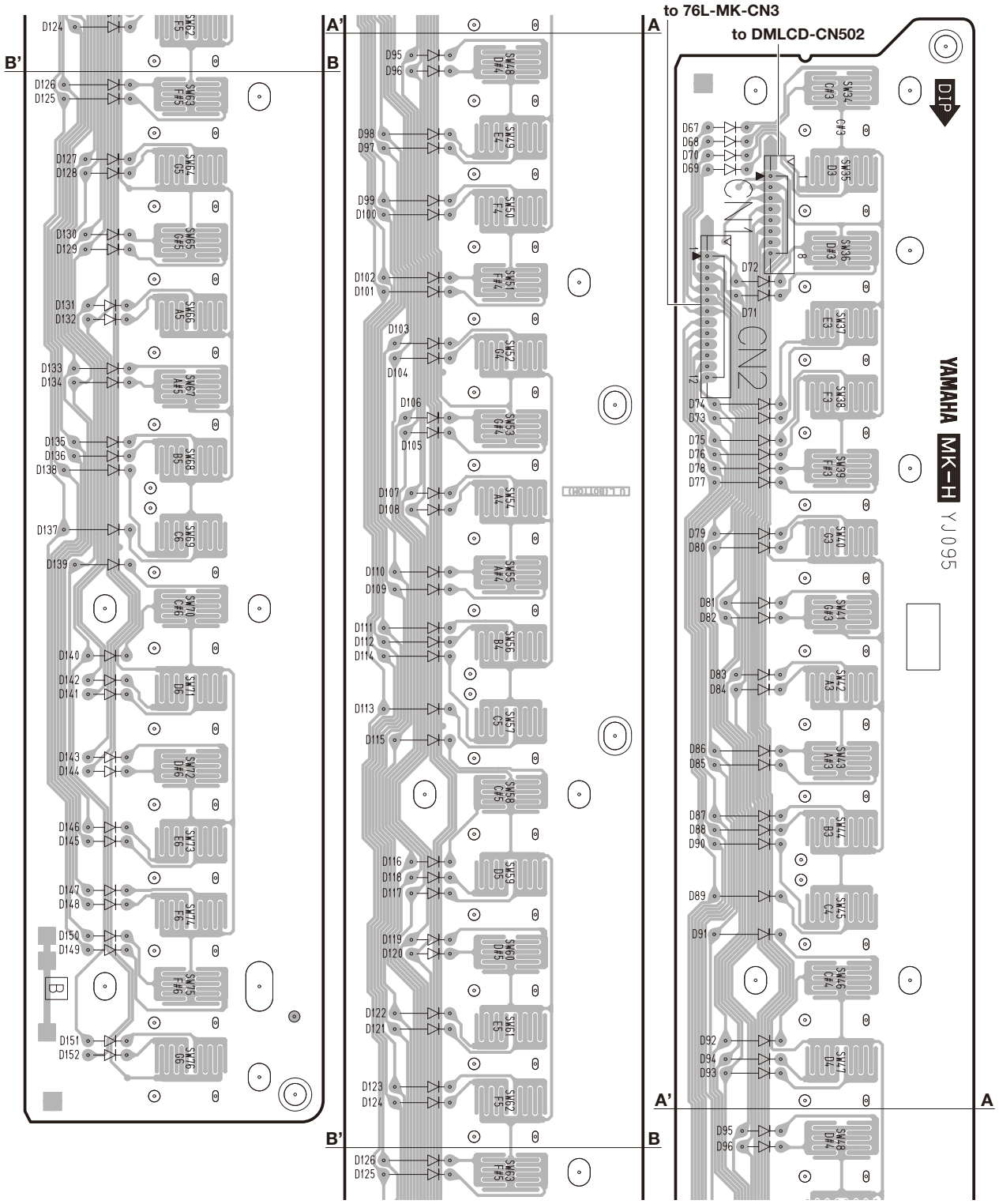
● PNR Circuit Board (YJ069C0)



Component Side

2NA-ZV85650 2

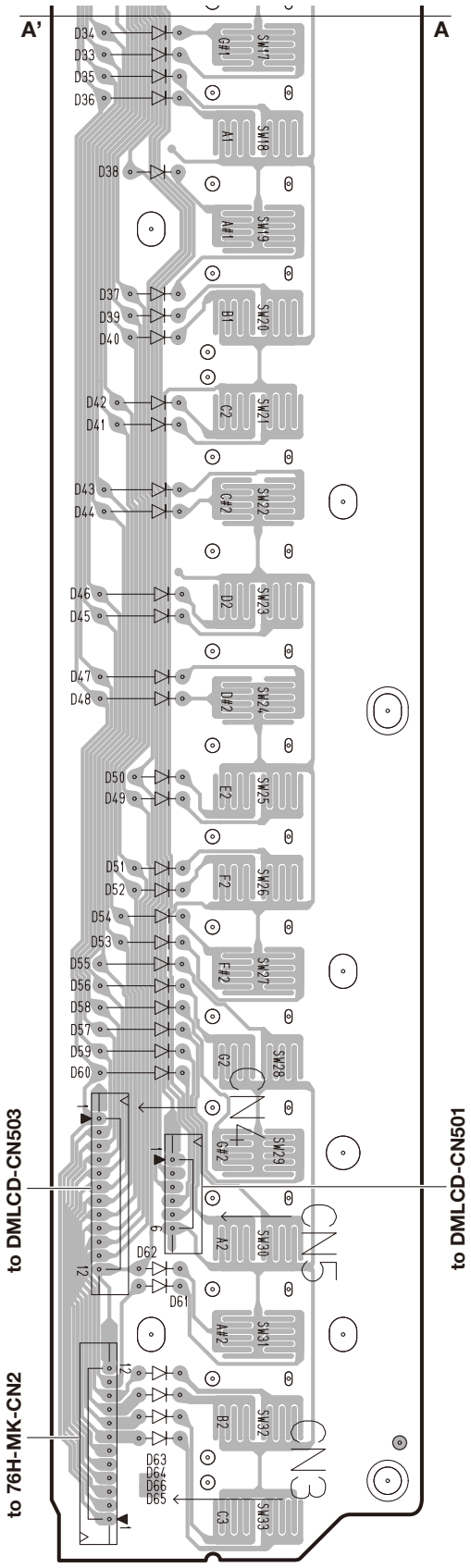
● 76H-MK Circuit Board (YJ095B0)

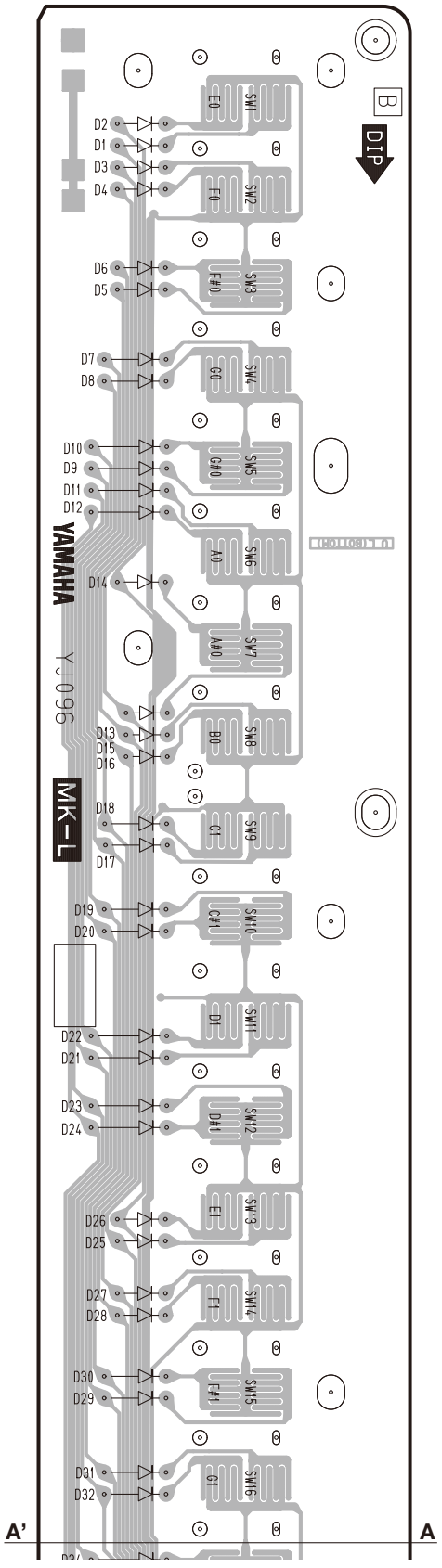


Component Side

2NAK8-ZW58960

● 76L-MK Circuit Board (YJ096B0)





Component Side

2NAK8-ZW58970

OVER-VOLTAGE DETECTION

If the PSR-EW300 detects inputting over-voltage while booting, this function automatically turns the power off.

For example)

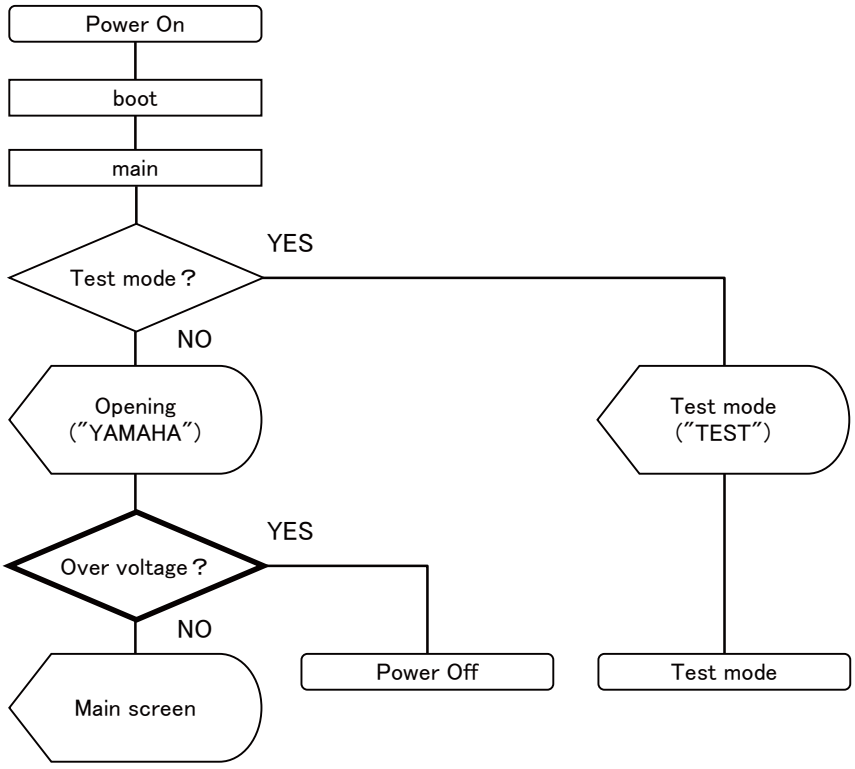
Problem	The PSR-EW300 automatically shuts off while booting: ▪ It will be turned off after the opening screen “YAMAHA”. ▪ There is no problem when starting the Test mode.
Possible cause	Improper AC adapter is used.
Repairs	Replace with the genuine AC adapter PA-130, PA-130A or PA-130B.

1. Features

Detecting voltage and Threshold

- DC IN: 18V or more
- +B (input to the pin No.48 of the IC001): 3.04V or more

Timing of detection



DMLCD Circuit Board Test Method

The DMLCD Circuit Board has the test points for repair check purposes.

Check the test points on the DMLCD Circuit Board when the following problems happen.

Problems and Test points

- No display although turning on the power --> Check the test points from No.1 to 6 sequentially
- No sound or distorted sound --> Check the test points No.3, 5, 7 and 8.

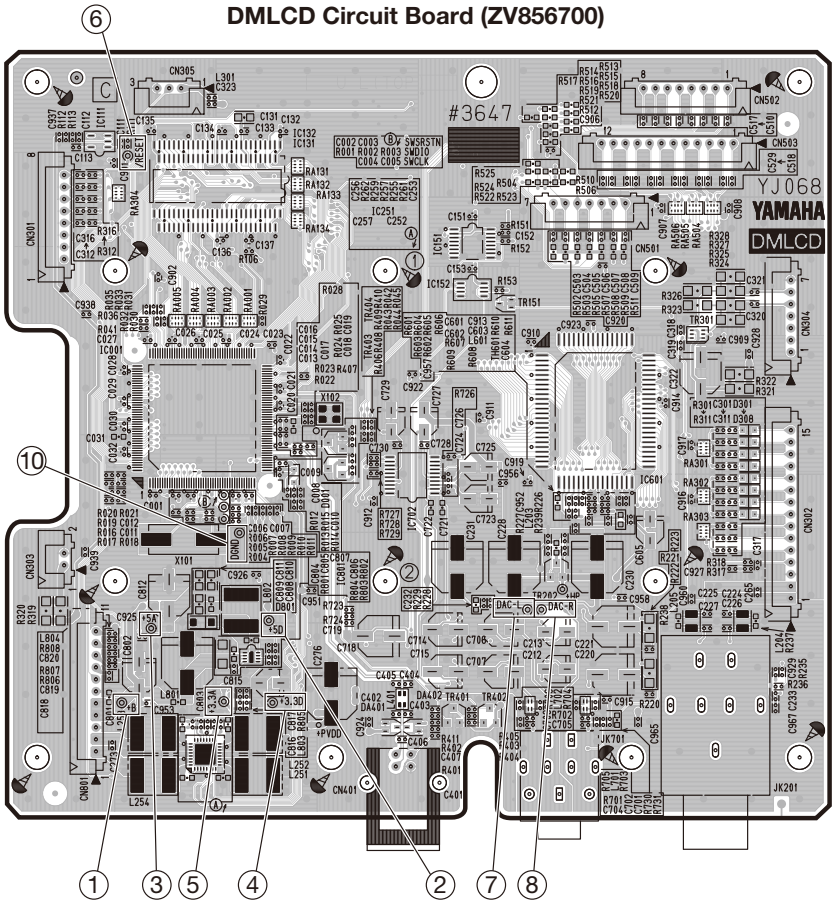
Table Point List

NO.	Test Point	Circuit	Judgment criteria	Measured by	Parts with possible defects
①	+B	Power supply voltage	More than 11.0V	Multimeter	TR103 or FZ101 (On PNL Circuit Board)
②	+5D	5V power for digital circuit	5.0V±0.5V	Multimeter	IC801
③	+5A	5V power for analog circuit	5.0V±0.5V	Multimeter	IC801
④	+3.3D	3.3V power for digital circuit	3.3V±0.3V	Multimeter	IC802
⑤	+3.3A	3.3V power for analog circuit	3.3V±0.3V	Multimeter	IC802
⑥	RESET	CPU & memory reset signal	3.3V±0.3V	Multimeter	IC111
⑦	OUT-L	DAC output L channel	There shall be audio output without distortion.	Signal Checker	IC201
⑧	OUT-R	DAC output R channel	There shall be audio output without distortion.	Signal Checker	IC201

Caution:

- Use the standard AC adapter PA-130, PA-130A or PA-130B for check operation.

DMLCD Circuit Board (ZV856700)



Component Side

TEST PROGRAM

Caution:

- The Test No.064 “Factory Set” will delete all setup data (included the data that the customer has purchased). Be sure to save the important data to a computer via Musicsoft Downloader software, or tell this to the customer in advance.

1. Measurement condition

1-1. Environment

Carry out the tests under the following conditions:

- Ordinary temperature (5°C to 40°C),
- Ordinary humidity (30% to 90%).

1-2. Power supply

Use an AC adapter: PA-130, PA-130A or PA-130B.

1-3. Measuring instruments

- Frequency counter which can detect thousandth value or more (for check of the output pitch)
- Level meter (with JIS-C filter) (for check of the output level)
- Oscilloscope (for check of the popping noise level)

* Input impedance of the measuring device should be 1 MΩ or more.

1-4. Jigs

- Foot switch (FC-4A, FC-5 or an equivalent) (for check of the [SUSTAIN] jack)
- USB cable (A-B type) (for check of the [USB TO HOST] terminal)
- PC with the latest USB-MIDI driver installed: (for check of the [USB TO HOST] terminal)
- Oscillator (for inputting a sine wave to the [AUX IN] jack)
- Stereo mini plug cable (for check of the [AUX IN] jack)

1-5. Jack conditions

- [PHONES/OUTPUT] jack: Install a measuring instrument (L, R ch: 33Ω load)
- [SUSTAIN] jack: Connect a Foot switch before turning the power ON

1-6. PSR-EW300 setup

MASTER VOLUME: MAX

Others: the initial setup at turning the power ON

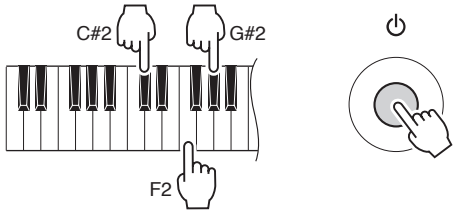
1-7. Measurement unit

The analog level unit is 0dBu=0.775Vrms

2. Test mode

2-1. Starting Test mode

1) While holding down the keys [C#2], [F2] and [G#2] simultaneously, press the [⏻] (Standby/On) switch.



2) When the test program is started, the **"TEST"** message will appear on the LCD.

2-2. Selection/execution of Test items

1) Press the [+] or [-] button in Number buttons area.
2) Press the [START/STOP] button. Refer to the "Test Item List" regarding how to operate each test item.
3) To confirm whether the selected test is completed or not:

   Check whether a cursor (**"_"**) is shown or not below the first character of the test item. If **"_"** is shown, the selected test has been executed once.

Exit from the current test.

Execute the following operations depending on **"OK"** or **"NG"** message.

2-3. If the test result shows "OK"

Press the [START/STOP] button again to return to the item selection display.

2-4. If the test result shows "NG"

Press the [DEMO] button or the lowest key (white key E0) to return to the item selection display.

* Note that the [START/STOP] button is ineffective in case of NG.

2-5. Test Item List

No.	Test item	Procedure for "Selection/execution of Test items"
001	**ROM version**	This shows the ROM version. 1) Press the [1] button in the Number buttons area to show the Main Program Version as follows: **"*** Main"** (***: Version)
002	**Memory Check1 All**	Executes the simplified check of all the memories (003-005) at one time. 1) Check the test result. If no problem is found, **"Mem1 OK"** is shown on the LCD. If any problem is found, **"NG"** is shown on the LCD with the name of the memory that has a problem, as follows: **"Rom NG"** **"Ram NG"** **"FRom NG"**
003	**ROM Check1**	Executes the simplified check of the ROM connected to the CPU bus. 1) Check the test result. If no problem is found, **"Rom OK"** is shown on the LCD. If any problem is found, **"Rom NG"** is shown on the LCD.

No.	Test item	Procedure for "Selection/execution of Test items"
004	**RAM Check1**	Executes the simplified check of the RAM connected to the CPU bus. 1) Check the test result. If no problem is found, **"Ram OK"** is shown on the LCD. If any problem is found, **"Ram NG"** is shown on the LCD.
005	**Flash ROM Check1**	Executes the simplified check of the Flash ROM connected to the CPU bus. 1) Check the test result. If no problem is found, **"FRom OK"** is shown on the LCD. If any problem is found, **"FRom NG"** is shown on the LCD.
009	**Pitch Check**	Checks whether the correct pitch is output from this instrument or not. 1) Before pressing the [START/STOP] button, connect the Frequency Counter to the [PHONES/OUTPUT] jack on the rear panel. (Either L or R ch) 2) Press the [START/STOP] button to produce the A3 sound. 3) Check the Frequency counter indication. No problem: the indication is with in 441.00±0.2Hz. 4) Press the [START/STOP] button to stop the A3 sound. The LCD screen returns to the test program selection display.
011	**Output level R Check**	Checks whether the stereo R sound is output from the [PHONES/OUTPUT] jack properly or not. 1) Before pressing the [START/STOP] button, connect the level meter (with JIS-C filter) to the [PHONES/OUTPUT] jack on the rear panel. (Both L and R ch, 33Ω load) 2) Set the MASTER VOLUME to the maximum position. 3) Press the [START/STOP] button to produce the 1kHz sinusoidal sound. 4) Check the output levels of L and R ch indicated on the Level meter. No problem if the following conditions are satisfied. [PHONES/OUTPUT] (33Ω load) • R: –6.5 dBu ± 2 dB • L: -67.0 dBu or less 5) Press the [START/STOP] button to stop 1kHz sinusoidal sound. The LCD screen returns to the test program selection display.
012	**Output level L Check**	Checks whether the stereo L sound is output from the [PHONES/OUTPUT] jack properly or not. 1) Before pressing the [START/STOP] button, connect the level meter (with JIS-C filter) to the [PHONES/OUTPUT] jack on the rear panel. (Both L and R ch, 33Ω load) 2) Set the MASTER VOLUME to the maximum position. 3) Press the [START/STOP] button to produce the 1kHz sinusoidal sound. 4) Check the output levels of L and R ch indicated on the Level meter. No problem if the following conditions are satisfied. [PHONES/OUTPUT] (33Ω load) • L: –6.5 dBu ± 2 dB • R: -67.0 dBu or less 5) Press the [START/STOP] button to stop 1kHz sinusoidal sound. The LCD screen returns to the test program selection display.

No.	Test item	Procedure for "Selection/execution of Test items"
019	**MUTE Check**	Confirms that the output MUTE function works properly. 1) Press the [START/STOP] button. **"MUTE Off"** is shown on the LCD and the C5 sound is produced. Press the [+] or [-] button. **"MUTE On"** is shown on the LCD and the sound stops. 2) Press the [START/STOP] button to return to selection display of the test items. If a sound was being produced, the sound stops. * This procedure can be performed to confirm that the MUTE function works properly.
021	**HP Insertion and Extraction Check**	Checks whether the PHONES jack work properly or not. 1) Press the [START/STOP] button. **"HP In"** is shown on the LCD. 2) Connect headphones to the [PHONES/OUTPUT] jack. **"HP Out"** is shown on the LCD. 3) Remove the headphones from the [PHONES/OUTPUT] jack. If there are no problems, **"HP OK"** is shown on the LCD.
022	**AUX Check**	Checks whether the sound is input to the [AUX IN] jack properly or not. 1) Check whether **"AUX In"** is shown on the LCD or not when no plug is plugged into the [AUX-IN] jack. 2) Connect an oscillator to the [AUX IN] jack. **"AUX Out"** is shown on the LCD when an stereo mini plug cable is plugged into the [AUX IN] jack properly. 3) Connect the level meter (with JIS-C filter) to the [PHONES/OUTPUT] jack on the rear panel. (Both L and R ch, 33Ω load) 4) Input the sine wave (-24dBu, 1kHz) to the R ch of the [AUX IN] jack. 5) Check the output levels of L and R ch indicated on the Level meter. No problem if the following conditions are satisfied. [PHONES/OUTPUT] (33Ω load) • R (input side): –4.8 dBu ± 2 dB • L (nothing side): –70.0 dBu or less 6) For the L ch, make the same operations as in Steps 4 to 5. 7) Unplug the stereo mini cable from the [AUX IN] jack. If no problem is found, **"AUX OK"** is shown on the LCD.
024	**Switch Check**	Checks whether each panel button works properly or not. 1) Check that the LCD shows you the should-be-pressed button. 2) Press the button specified on the LCD one by one. The sound of the note assigned to the pressed button will be produced. (Regarding what note is assigned, refer to the "Switch test item list") * You can exit from this test by pressing the [DEMO] button. * If any problem is found, **"SW NG"** is shown on the LCD. * If two or more buttons are pressed simultaneously, **"Over Two"** is shown on theLCD. If no problem is found, **"SW OK"** is displayed.
031	**All LCD On Check**	Checks whether all the LCD dots are turned on properly or not. 1) Check that all the LCD dots are turned on.
032	**All LCD Off Check**	Checks whether all the LCD dots are turned off properly or not. 1) Check that all the LCD dots are turned off.

No.	Test item	Procedure for "Selection/execution of Test items"
034	**Main Volume Check**	Checks the minimum value and maximum value of the [MAIN VOLUME]. 1) Press the [START/STOP] button. **"Mvol Min"** is shown on the LCD. 2) Set the [MAIN VOLUME] to the minimum. **"Mvol Max"** is shown on the LCD. 3) Set the [MAIN VOLUME] to the maximum. If no problem is found, **"Mvol OK"** is shown on the LCD.
035	**Fail Safe Check**	Checks whether the Fail-Safe Circuit for digital volume control works properly or not. 1) Check the test result. If no problem is found, **"FS OK"** is displayed. If any problem is found, **"FS NG"** is shown on the LCD.
036	**Pedal1 Check**	Checks whether the Foot switch plugged into the [SUSTAIN] jack works properly or not. 1) Press the [START/STOP] button to produce the C3 sound. 2) Press the Foot switch to produce the C4 sound. 3) Release the Foot switch to stop the C4 sound. If no problem is found, **"PD1 OK"** is shown on the LCD. * Connect a Foot switch to the [SUSTAIN] jack before turning the power ON.
047	**Volt Check**	Confirms the voltage of the AC adapter. 1) Check the test result. If no problem is found, **"Volt OK"** is displayed. If a problem is found, **"Volt NG"** is displayed.
051	**Pos Check**	Checks the Make Position for the keyboard (PingPongPang mode). 1) Press the [START/STOP] button. **"Press"** is shown on the LCD. 2) Press the key on the keyboard. 3) **"xxx Make 1"** → **"xxx Make 12"** (note number and Make number) are shown on the LCD. 0 and +4 notes are output with a velocity of 127 for every 2 Makes. For example, if pressing the C key on the keyboard, each note CE is output. 4) Press the [START/STOP] button to return to selection display of the test items.
058	**ROM Check2**	Executes the check of the ROM connected to the CPU bus (Full address). 1) Check the test result. (It will take about 25 seconds for the check.) If no problem is found, **"Rom OK"** is shown on the LCD. If any problem is found, **"Rom NG"** is shown on the LCD.
059	**RAM Check2**	Executes the check of the RAM connected to the CPU bus (Full address). 1) Check the test result. If no problem is found, **"Ram OK"** is shown on the LCD. If any problem is found, **"Ram NG"** is shown on the LCD.
060	**Flash ROM Check2**	Executes the check of the Flash ROM connected to the CPU bus (Full address). 1) Check the test result. (It will take about 70 seconds for the check.) If no problem is found, **"FRom OK"** is shown on the LCD. If any problem is found, **"FRom NG"** is shown on the LCD.

No.	Test item	Procedure for "Selection/execution of Test items"
063	**Keyboard Check**	Checks whether each key works properly or not. 1) Check that the LCD shows you the should-be-pressed key. 2) Press the key specified on the LCD one by one. The each sound between C3 and B4 assigned to the pressed key will be produced. If no problem is found, **"KB OK"** is displayed. * You can exit from this test by pressing the [DEMO] button. * If the wrong key is pressed, nothing happens. * If two or more keys are pressed simultaneously, **"Over Two"** is shown on the LCD. * If the velocity of pressing the key is not suitable, either **"Too Slow" or** "**Too Fast"** is shown on the LCD.
064	**Factory Set**	Reset all the backup region of the memories to the initial factory status. 1) Do not turn off the power while **"Fact --"** is shown on the LCD. After a while, **"Fact End"** is shown on the LCD to indicate that the initializing is completed.
065	**Test Exit**	Lets you exit from the Test mode to the normal mode. 1) Press the [START/STOP] button. The Test Program mode will end, then the PSR-EW300 will be restarted. * Never turn off the power until the Main display appears. * Doing so may cause a malfunction.

3. Other Test Items (Check in normal mode)

No.	Test item	Procedure
-	**Popping Noise Level Check**	Checks whether the popping noise level is proper or not when turning the power on and off. 1) Connect an Oscilloscope to the [PHONES/OUTPUT] jack. 2) Set the MASTER VOLUME to the maximum position. 3) Press the [⏻] (STANDBY/ON) switch to check the noise level indicated on the Oscilloscope when turning the power of the PSR-EW300 on and off. No problem if the following conditions are satisfied. [PHONES/OUTPUT] (Both L and R ch, 33Ω load) • L, R: 1.0 V peak to peak or less
-	**Noise Level Check**	Checks whether the noise level is proper or not. 1) Connect the level meter (with JIS-C filter) to the [PHONES/OUTPUT] jack on the rear panel. (Both L and R ch, 33Ω load) 2) Set the MASTER VOLUME to the maximum position. 3) Check the output levels of L and R ch indicated on the Level meter. No problem if the following conditions are satisfied. [PHONES/OUTPUT] (33Ω load) • L, R: -75 dBu or less * Do not plug anything into the [AUX IN] jack.

No.	Test item	Procedure
-	**No charging the batteries Check**	Checks whether the voltage is supplied to batteries or not. 1) Connect the AC adapter to the [DC IN] jack. 2) Check the voltage between spring terminal A and B. No problem if 0.2V or less is generated.
-	**Vibration Noise Check**	Checks whether vibration noise occurs on the PSR-EW300 or not. 1) Select the Voice following: No.045 (FngrBass) 2) Set the Main Voice volume in the Function to the default value. 3) Set the MASTER VOLUME to the maximum position. 4) Carry out the scaling to check whether vibration noise occurs or not. No problem if no vibration noises occur.

4. Switch test item list

Switch test item list

Turn	SW Name	LCD Display	Note Number
1	DEMO	Demo	C2
2	METRONOME	Metro	C#2
3	TEMPO/TAP	Temp/TAP	D2
4	LEFT	Left	D#2
5	RIGHT	Right	E2
6	KEYS TO SUCCESS	Keys	F2
7	PHRASE REPEAT	P Rep	F#2
8	1 LISTENING 2 TIMING 3 WAITING	Lesson	G2
9	SONG	Song	G#2
10	VOCE	Voice	A2
11	STYLE	Style	A#2
12	TENKEY 1	Tenkey 1	B2
13	TENKEY 2	Tenkey 2	C3
14	TENKEY 3	Tenkey 3	C#3
15	TENKEY 4	Tenkey 4	D3
16	TENKEY 5	Tenkey 5	D#3
17	TENKEY 6	Tenkey 6	E3
18	TENKEY 7	Tenkey 7	F3
19	TENKEY 8	Tenkey 8	F#3
20	TENKEY 9	Tenkey 9	G3
21	TENKEY -	Tenkey -	G#3
22	TENKEY 0	Tenkey 0	A3
23	TENKEY +	Tenkey +	A#3
24	MUSIC DATABESE	MDB	B3
25	DUAL	Dual	C4
26	SPLIT	Split	C#4
27	HARMONY	Harmony	D4
28	A-B REPEAT	AB Rep	D#4
29	REW	Rew	E4
30	FF	FF	F4
31	PAUSE	Pause	F#4
32	START/STOP	StartStp	G4
33	REC	Record	G#4
34	PORTABLE GRAND	GP	A4
35	REVERB	Reverb	A#4
36	MELODY SUPPRESSOR	MelodySP	B4
37	REGIST MEMORY	Regist	C5
38	FUNCTION	Function	C#5

BACKUP

Backup Parameters

The following Backup parameters will be maintained even if the power is turned off.

Backup parameters

- User songs
- Style Number 166 to 175
- Registration Memory
- Passing Status of Keys to Success
- FUNCTION Settings:

  Tuning, Split Point, Touch Response, Style Volume, Song Volume, Metronome Volume, Your Tempo, Demo Group, Demo Play Mode, Master EQ type, Panel Sustain, Auto Power Off, Battery Type, Guide, Audio Loop Back

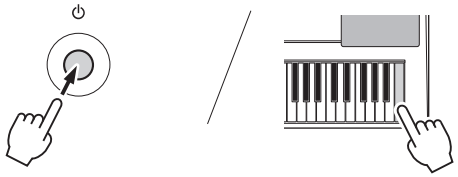
In addition to the Backup parameters above, all the data (including Style data that have not been loaded) transferred from the connected computer will be maintained even if you turn off the power.

INITIALIZATION

There are following two methods to initialize the customer's setup data.

Backup Clear

This operation initializes the backup parameters.
While holding down the highest white key, press the [⏻] (Standby/On) switch to turn the power on.



Backup Clear does not delete the data transferred from the connected computer. If you need to delete it, refer to "Flash Clear" below.

Flash Clear

This operation deletes all the Songs and Styles that have been transferred from a computer. Note that Style data registered to Style numbers 166 to 175 will be maintained. While simultaneously holding the highest white key and the three highest black keys, press the [⏻] (Standby/On) switch to turn the power on.



⚠ CAUTION	▪ **Keep in mind that "Flash Clear" also deletes the data the customer has purchased. Be sure to save the important data to a computer via Musicsoft Downloader software, or tell this to the customer in advance.**

PSR-EW300

PARTS LIST

■ CONTENTS

OVERALL ASSEMBLY..... 2
UPPER CASE ASSEMBLY..... 4
LOWER KEY BED ASSEMBLY..... 6
KEYBOARD ASSEMBLY..... 8
ELECTORICAL PARTS..... 10

* DESTINATION ABBREVIATIONS

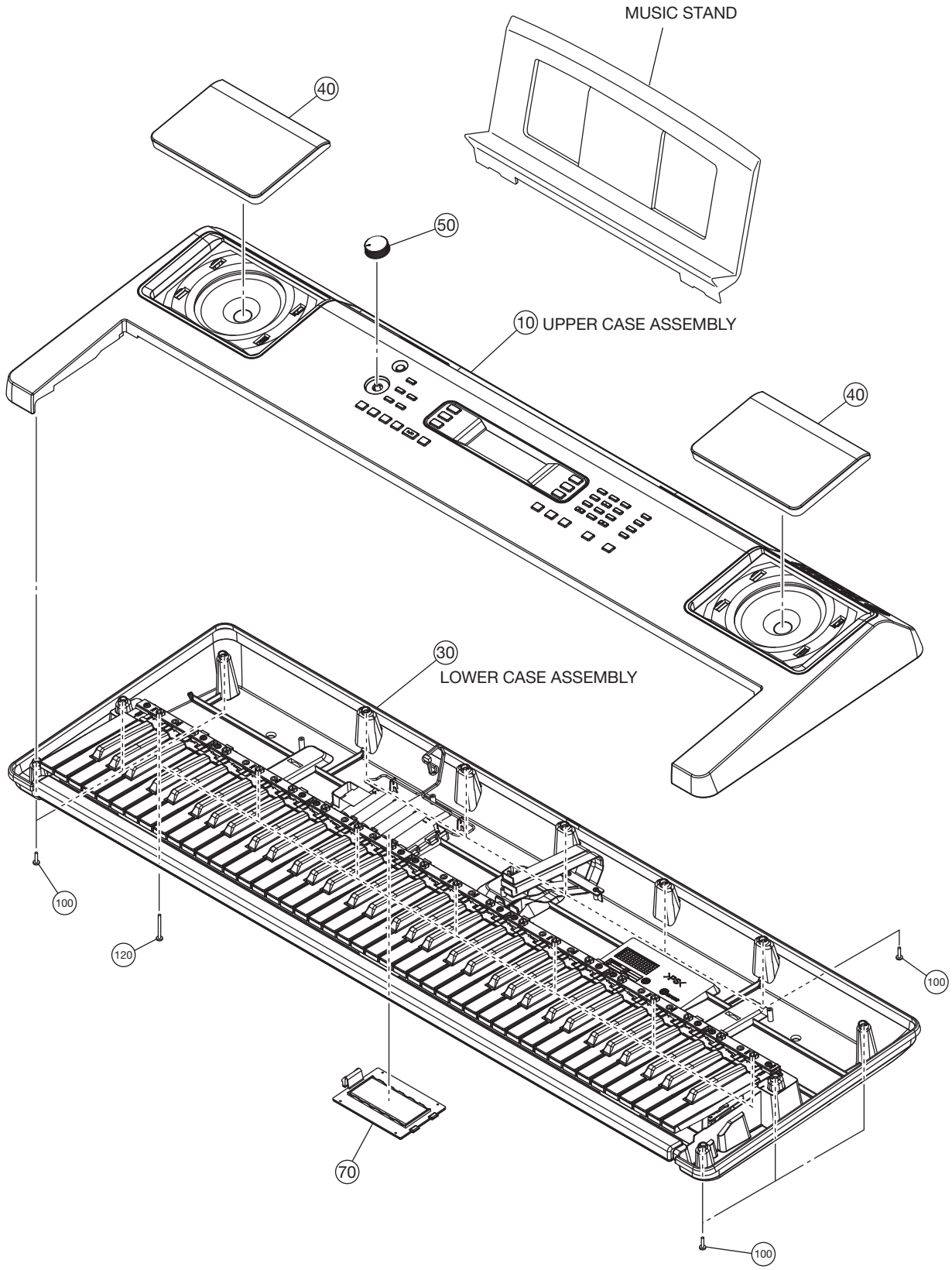
A:	Australian model	R:	Russia model
B:	British model	S:	Spain model
C:	Canadian model	T:	Taiwan model
D:	German model	U:	U.S.A. model
E:	European model	V:	General export model (110V)
F:	French model	W:	General export model (220V)
H:	North European model	N,X:	General export model
I:	Indonesian model	Y: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

■ WARNING

Components having special characteristics are marked ⚠ and must be replaced with parts having specifications 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.

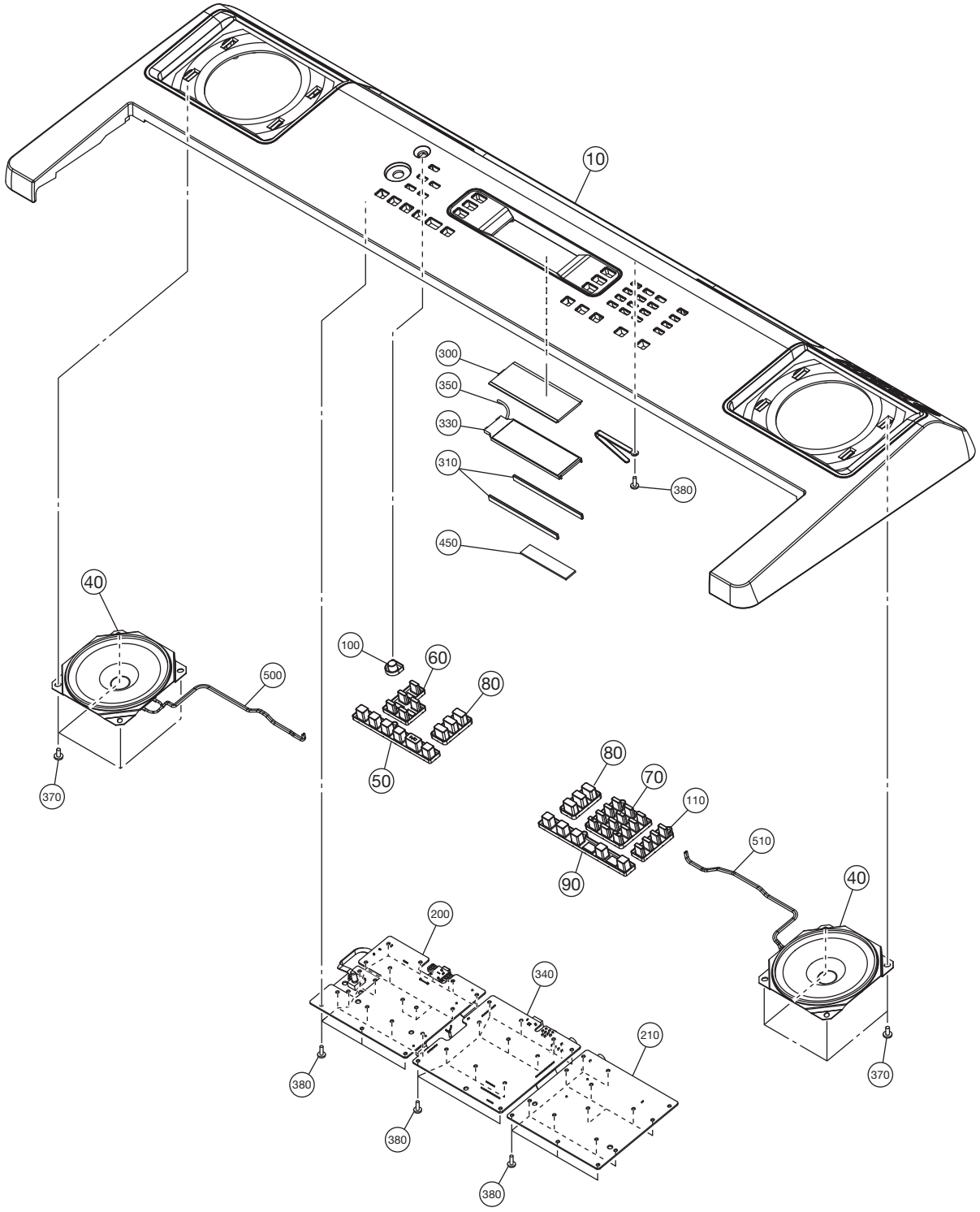
■ OVERALL ASSEMBLY



	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY
			OVERALL ASSEMBLY		総組立	PSR-EW300	
		--	OVERALL ASSEMBLY	PSR-EW300 E	総組立	PSR-EW300 U,C,E,B,I,K,Y,A,P (ZV94010)	
		--	OVERALL ASSEMBLY	PSR-EW300 CHN	総組立	PSR-EW300 O (ZV97100)	
	10	--	UPPER CASE ASSEMBLY	PSR-EW300 E	上ケースAss'y	PSR-EW300 U,C,E,B,I,K,Y,A,P (ZV86960)	
	10	--	UPPER CASE ASSEMBLY	PSR-EW300 CHN	上ケースAss'y	PSR-EW300 O (ZV97110)	
	30	--	LOWER CASE ASSEMBLY		下ケースAss'y	(ZV86990)	
*	40	**ZW042900**	SP GRILLE ASSEMBLY		SPグリルAss'y		2
	50	**ZP527600**	VOLUME KNOB	COMMON	ボリュームツマミ	MASTER VOLUME	
	70	**WR080100**	BATTERY COVER ASSEMBLY		電池蓋Ass'y		
	100	**WE98740R**	BIND HEAD TAPPING SCREW-B	3.0X12 MFZN2W3	Bタイト+BIND		11
	120	**WF491001**	BIND HEAD TAPPING SCREW-B	3.0X30 MFZN2W3	Bタイト+BIND		7
			ACCESSORIES		付属品	PSR-EW300	
		ZG441300	MUSIC REST WITH BAG	BLACK	譜面板袋入り		
⚠		**ZM585200**	ADAPTER SET TY	PA-130B E	アダプターセットTY	E	
⚠		**ZM585500**	ADAPTER SET TY	PA-130B B	アダプターセットTY	B	
⚠		**WK014600**	AC ADOPTOR	PA-130U U	ACアダプター	C	
⚠		**ZM585900**	ADAPTER SET TY	PA-130B CHN	アダプターセットTY	O	
⚠		**ZN406200**	ADAPTER SET TY	PA-130B A	アダプターセットTY	A	
⚠		**ZM585600**	ADAPTER SET TY	PA-130B K	アダプターセットTY	K	
⚠		**ZM585700**	ADAPTER SET TY	PA-130B BRA	アダプターセットTY	P	
⚠		**ZU896800**	ADAPTER SET TY	PA-130B IN	アダプターセットTY	I	

* : New Parts (新規部品)

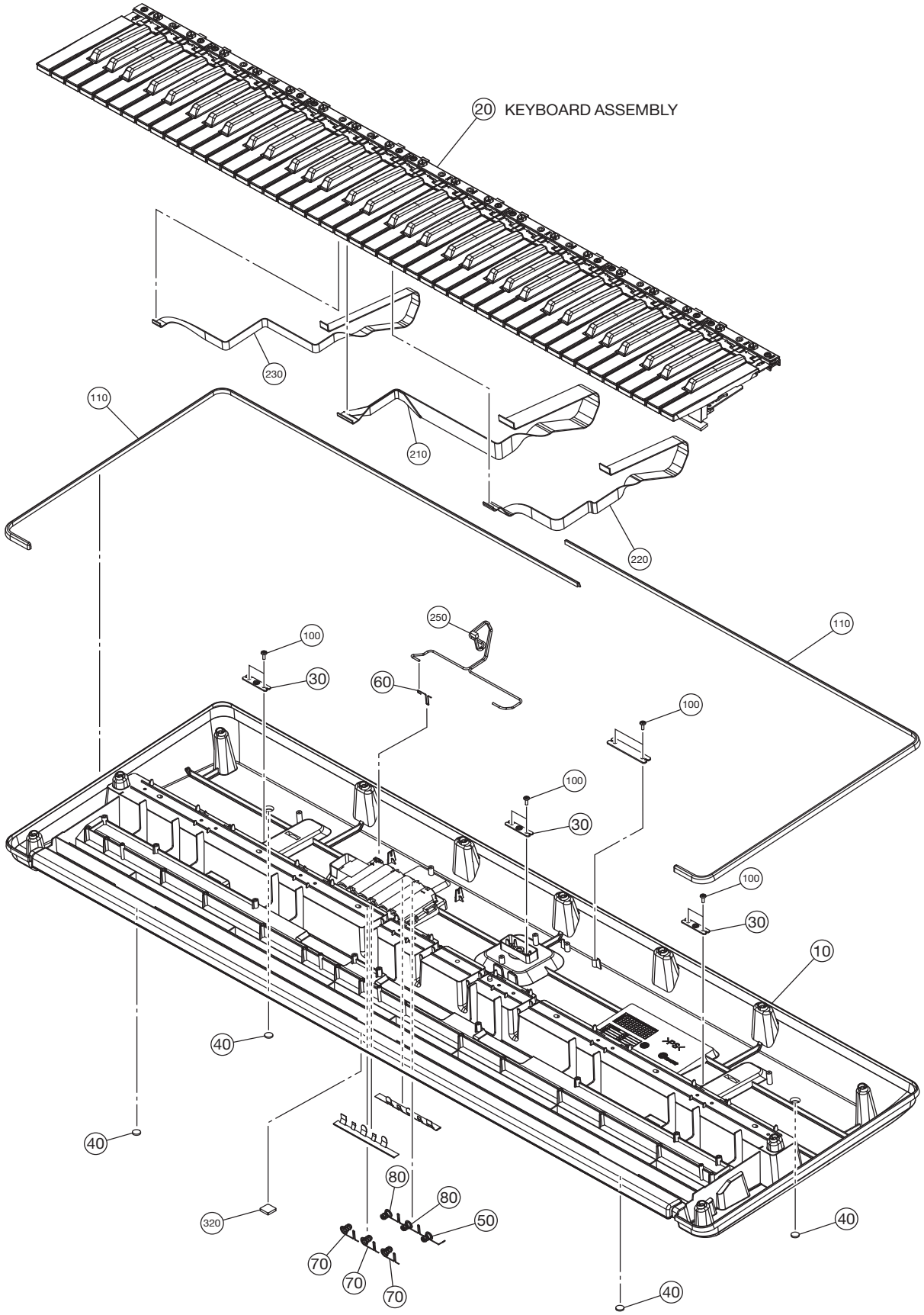
■ UPPER CASE ASSEMBLY



	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY
			UPPER CASE ASSEMBLY		上ケースAss'y	PSR-EW300	
		--	UPPER CASE ASSEMBLY	PSR-EW300 E	上ケースAss'y	PSR-EW300 U,C,E,B,I,K,Y,A,P (ZV86960)	
		--	UPPER CASE ASSEMBLY	PSR-EW300 CHN	上ケースAss'y	PSR-EW300 O (ZV97110)	
*	10	**ZV971200**	UPPER CASE FINISHED	PSR-EW300 E	上ケース塗装印刷品	PSR-EW300 U,C,E,B,I,K,Y,A,P	
*	10	**ZV971300**	UPPER CASE FINISHED	PSR-EW300 CHN	上ケース塗装印刷品	PSR-EW300 O	
*	40	**YJ207A00**	LOUD SPEAKER	12.0cm 6ohm 3W	スピーカ		2
*	50	**ZW018400**	PN SWITCH		PNスイッチ	A - B REPEAT,REW, F F, PA U S E , START/STOP,REC	
*	60	**ZW018500**	PN SWITCH		PNスイッチ	DEMO,METRONOME,TEMPO/TAP, PART L.PART R	
*	70	**ZW018600**	PN SWITCH		PNスイッチ	1,2,3,4,5,6,7,8,9,NO,0,YES	
*	80	**ZW018700**	PN SWITCH		PNスイッチ	KEYS TO SUCCESS,PHRASE REPEAT, 1 LISTENING,SONG,VOICE,STYLE	2
*	90	**ZW019500**	PN SWITCH		PNスイッチ	PORTABLEGRAND,REVERB, MELODY SUPPRESSOR,REGIST MEMORY, FUNCTION	
*	100	**ZW019600**	PN SWITCH		PNスイッチ	Standby/On	
*	110	**ZW019700**	PN SWITCH		PNスイッチ	MUSIC DATABESE,DUAL,SPLIT, HARMONY/ARPEGGIO	
*	200	**ZV856400**	CIRCUIT BOARD	PNL	PNLシート		
*	210	**ZV856500**	CIRCUIT BOARD	PNR	PNRシート		
*	300	**ZY420800**	LCD DISPLAY	TTR2A3216	液晶ディスプレイ		
	310	**WZ963200**	RUBBER CNNECTOR	ZEBRA	ゴムコネクター		2
*	330	**ZV589400**	BACK LIGHT		バックライト		
*	340	**ZV856700**	CIRCUIT BOARD	DMLCD	DMLCDシート		
	350	--	WIRING ASSEMBLY	BL 2P L=70	BL線材	(WE14140)	
	370	**WE97460R**	BIND HEAD TAPPING SCREW-B	4.0X8 MFZN2W3	Bタイト+BIND		8
	380	**WE774301**	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	Bタイト+BIND		49
	450	--	CUSHION PE	70X15X2	クッションPE	(ZW80780)	
	500	--	WIRING ASSEMBLY	SP2 2P	SP2束線	(ZW81460)	
	510	--	WIRING ASSEMBLY	SP2 2P	SP2束線	(ZW81460)	

＊: New Parts（新規部品）

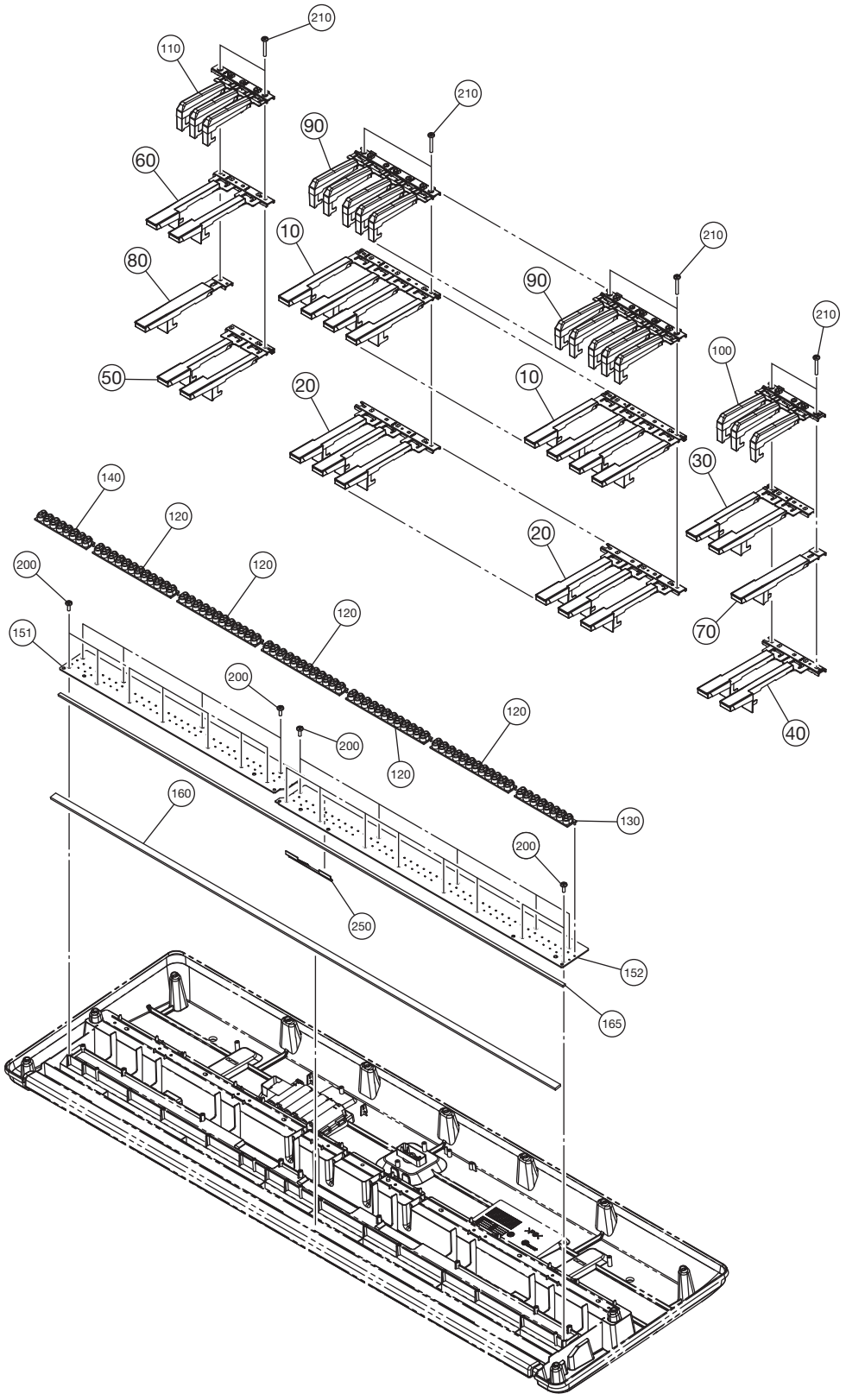
■ LOWER KEY BED ASSEMBLY



	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY
		--	LOWER CASE ASSEMBLY		下ケースAss'y	PSR-EW300 (ZV86990)	
*	10	**ZV377500**	LOWER CASE MOLDING		下ケース成形品		
	20	--	KEYBOARD ASSEMBLY	16NS E76 D2M I	16NS-E76鍵盤	(ZW58950)	
	30	--	STAND ANGLE		スタンド金具	(ZP42530)	3
	40	**WW693500**	RUBBER FOOT		ゴム脚		4
	50	**WD87920R**	BATTERY TERMINAL A		接点バネA		
	60	**WD87930R**	BATTERY TERMINAL B		接点バネB		
	70	**WD87940R**	BATTERY TERMINAL C		接点バネC		3
	80	**WD87970R**	BATTERY TERMINAL D		接点バネD		2
	100	**WE774301**	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	Bタイト+BIND		8
*	110	**ZW107800**	CUSHION PE	980X15X1	クッションPE		2
	210	--	WIRING ASSEMBLY	12P L=650	束線	(ZA27480)	
	220	--	WIRING ASSEMBLY	8P L=600	束線	(ZA26710)	
	230	--	WIRING ASSEMBLY	6P L=650	束線	(ZA26340)	
	250	--	CONNECTOR ASSEMBLY	BATT XH3P L=240	BATT束線	(ZW77040)	
	320	--	PORON FOOT		ポロン脚	(ZV73310)	

＊: New Parts（新規部品）

■ KEYBOARD ASSEMBLY



	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY
		--	KEYBOARD ASSEMBLY	16NS E76 D2M I	16NS－E76鍵盤	(ZW58950)	
	10	**ZE369800**	WHITE KEY CEGB	16NS CEGB	白鍵 CEGB		5
	20	**ZE369900**	WHITE KEY DFA	16NS DFA	白鍵 DFA		5
	30	**ZS9261I0**	WHITE KEY CE	16NS CE	白鍵 CE		
	40	**ZS9262I0**	WHITE KEY DF	16NS DF	白鍵 DF		
	50	**ZS9263I0**	WHITE KEY GB	16NS GB	白鍵 GB		
	60	**ZS9264I0**	WHITE KEY FA	16NS FA	白鍵 FA		
	70	**ZS5960I0**	WHITE KEY G	16NS G	白鍵 G		
	80	**ZS5959I0**	WHITE KEY E	16NS E	白鍵 E		
	90	**WZ168300**	BLACK KEY	16NS #	黒鍵		5
	100	**ZS9265I0**	BLACK KEY CDF	16NS CDF	黒鍵 CDF		
	110	**ZS9266I0**	BLACK KEY FGA	16NS FGA	黒鍵 FGA		
	120	**V341360R**	KEYBOARD RUBBER CONTACT	16N-2M OCT 2M	接点ゴム16N2M		5
	130	**V3413701**	KEYBOARD RUBBER CONT	16N-2M 76H 2M	接点ゴム16N2M		
	140	**V3413801**	KEYBOARD RUBBER CONT	16N-2M 76L 2M	接点ゴム16N2M		
*	151	**ZW589700**	CIRCUIT BOARD	76L	76Lシート		
*	152	**ZW589600**	CIRCUIT BOARD	76H	76Hシート		
	160	**V341400R**	FELT 76L	1036X11 WHITE	フェルト76L		
	165	**V3413901**	FELT 76U	1036X5 WHITE	フェルト76U		
	200	**WE774301**	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	Bタイト＋BIND		24
	210	**WF49200R**	BIND HEAD TAPPING SCREW-P	3.0X20 MFZN2W3	Pタイト＋BIND		14
	250	--	CONNECTOR ASSEMBLY	MK-MK 12P L=105	MK－MK束線	(ZW70880)	

＊: New Parts（新規部品）

■ ELECTORICAL PARTS

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY
			ELECTRICAL PARTS		電気部品	PSR-EW300	
*		**ZV856700**	CIRCUIT BOARD	DMLCD	DMLCDシート	(ZV85660)(YJ068C0)	
*		**ZV856400**	CIRCUIT BOARD	PNL	PNLシート	(ZV85630)(YJ069C0)	
*		**ZV856500**	CIRCUIT BOARD	PNR	PNRシート	(ZV85630)(YJ069C0)	
*		**ZW589600**	CIRCUIT BOARD	76H (16N E76 P2 H)	76Hシート	(ZW12400)(YJ095B0)	
*		**ZW589700**	CIRCUIT BOARD	76L (16N E76 P2 L)	76Lシート	(ZW12410)(YJ096B0)	
*		**ZV856700**	CIRCUIT BOARD	DMLCD	DMLCDシート	(ZV85660)(YJ068C0)	
	CN401	**V680260R**	CONNECTOR	USB 4P SE	USBジャック	USB TO HOST	
	JK201	**LB10187R**	CONNECTOR	JACK YKB21-5006	ホーンコネクタ	PHOHES/OUTPUT	
	JK701	**ZA590000**	CONNECTOR	JACK MINI STEREO	ホーンコネクタ	AUX IN	
*		**ZV856400**	CIRCUIT BOARD	PNL	PNLシート	(ZV85630)(YJ069C0)	
*		**ZV856500**	CIRCUIT BOARD	PNR	PNRシート	(ZV85630)(YJ069C0)	
⚠	D103	**--**	DIODE	2A02-A0	ダイオード	(WV00880)	
⚠	* FZ101	**WN081300**	CURRENT CUTOFF FUSE	SEMKO/UL/PSE 2.00A	ヒューズ250V		
⚠	JK101	**WZ704401**	CONNECTOR	DC-502-AG-PBT-2.0-	電源コネクタ	DC IN +12V	
	JK201	**VC68750R**	CONNECTOR	JACK YKB21-5014	ホーンコネクタ（黒）	SUSTAIN	
	VR301	**ZK790600**	VR ROTARY	B 10.0K XV012113YN	ロータリーボリューム		
*		**ZV547800**	LCD DISPLAY	SDH-M12850-TP-0	液晶ディスプレイ		
		WZ963200	RUBBER CNNECTOR	ZEBRA	ゴムコネクター		2
*		**ZV589400**	BACK LIGHT	PSR-EW300	バックライト		
*		**YJ207A00**	LOUD SPEAKER	12.0cm 6ohm 3W	スピーカ		2

＊: New Parts（新規部品）

PSR-EW300 OVERALL CIRCUIT DIAGRAM (DMLCD, PNR, PNL, MVR, DC-IN, 76H-MK, 76L-MK)

DMLCD

LCD DRIVER
LCD DISPLAY
SDRAM 16M
BACKUP FLASH ROM 16M
DECORDER
RESET
CPU
PROG/WAVE ROM 128Mbit
REGULATOR +3.3V
DC-DC CONVERTER +5.0V
LCD Backlight
PITCH BEND
to AMPN CN203 (PNR)
(FOR ARABIC MODEL)
MK-H
PSR-E363:MK-H
PSR-EW300:MK-L
USB TO HOST
AUX IN
OP AMP
ADC
DAC
D.AMP
Headphone Amplifier
OP AMP
MUTE
PHONES/ OUTPUT

28CC1-2001170325-5

PNR

to PN2 CN201
(FOR ARABIC MODEL)
No Mount
to DMLCD CN304
SUSTAIN
SPEAKER R

28CC1-2001170326-1

76H-MK (C#3–G6)

28CC1-2001168117-1

76L-MK (E0–C3)

28CC1-2001168118-1

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

XX : Not installed
[ ] : The parts which are surrounded by dotted line are No mount.

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

PNL

KEYS TO SUCCESS
REC
MAIN/ AUTO FILL
DEMO
PHRASE REPEAT
START/STOP
INTRO/ ENDING/rit.
TEMPO/TAP
METRONOME
PART R
PART L
LESSON 123
SYNC START
ACMP ON/OFF
SPEAKER L

MVR

MASTER VOLUME
10.0kΩ B

DC-IN

BATTERY 1.5V×6(1.2×6)
STANDBY SW

28CC1-2001170326-1