PSR-E253/YPT-255

SERVICE MANUAL



PSR-E253



YPT-255

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PK 001915

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 changes in specification are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

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

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

WARNING: 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

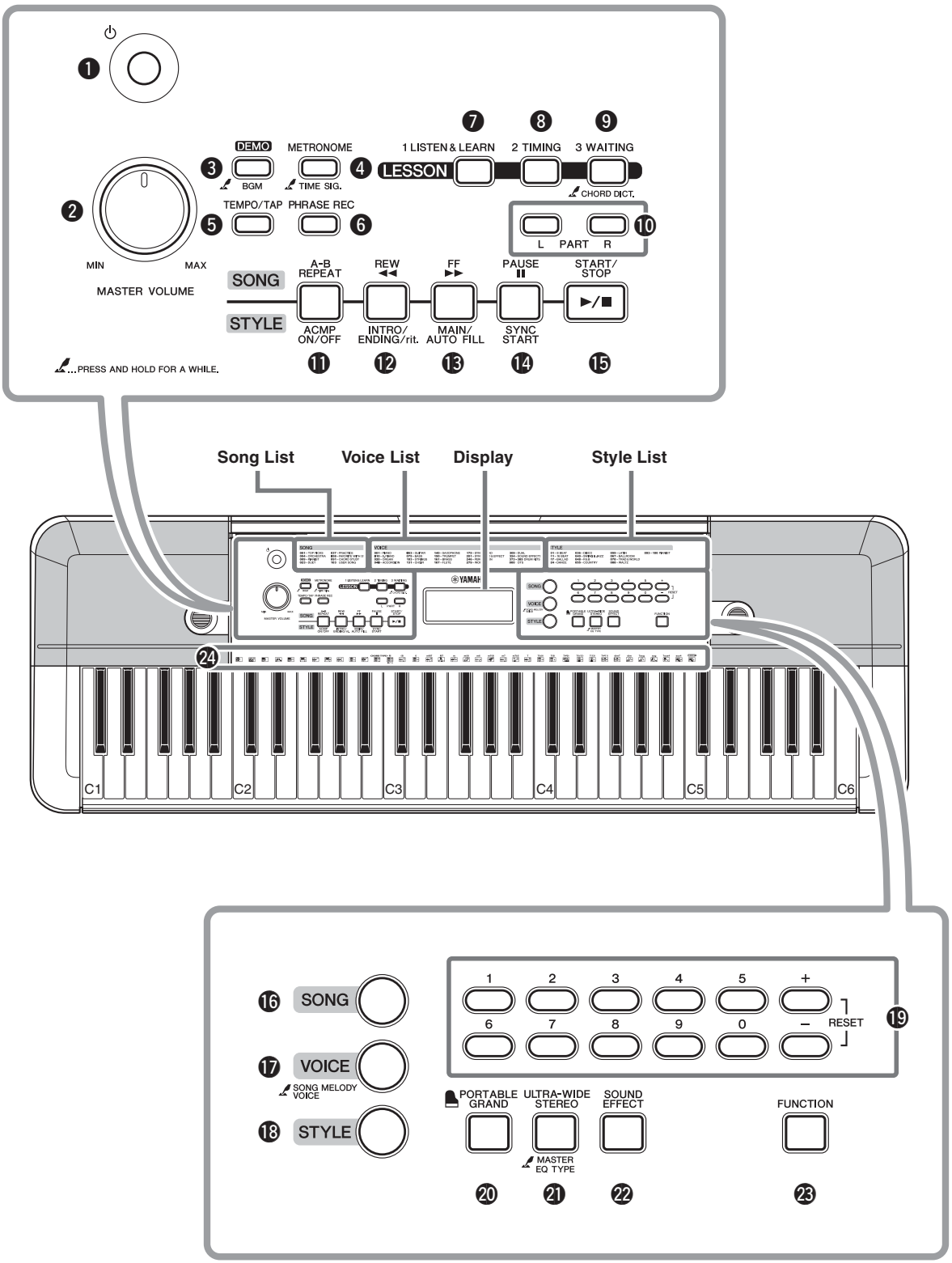
Some data items are automatically saved as backup data in the internal memory even if you turn the power off. Saved data may be lost due to malfunction or incorrect operation. Save important data to external device such as a computer.

SPECIFICATIONS

Size/Weight	Dimensions (W x D x H)		940mm × 317mm × 106mm (37-1/8" x 12-1/2" x 4-1/4")
	Weight		4.0kg (not including batteries) (8lbs 13oz.)
Keyboard	Number of Keys		61
Display	Type		LCD display
	Language		English
Voices	Tone Generation	Tone Generating Technology	AWM Stereo Sampling
	Polyphony	Number of Polyphony (Max.)	32
	Preset	Number of Voices	372 Voices + 13 drum/SFX kits
Effects	Types	Reverb	9 types
		Chorus	5 types
		Ultra-Wide Stereo	3 types
		Master EQ	6 types
	Functions	Panel Sustain	Yes
Accompaniment Styles	Preset	Number of Preset Styles	100
		Fingering	Multi finger
		Style Control	ACMP ON/OFF, SYNC START, START/STOP, INTRO/ENDING/rit, MAIN/AUTO FILL
	Other Features	One Touch Setting (OTS)	Yes
Songs	Preset	Number of Preset Songs	102 (including Chord Study: 12)
Recording	Number of Songs		1
	Number of Tracks		1
	Data Capacity		Approx. 300 notes
	Compatible Data Format		Original File Format
Function	Lesson		[1 LISTEN & LEARN], [2 TIMING], [3 WAITING], [A-B REPEAT], [CHORD DICTIONARY]
	Overall	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	Portable Grand Button	Yes
Connectivity			DC IN 12V, PHONES/OUTPUT, SUSTAIN , AUX IN
Amplifiers/Speakers	Amplifiers		2.5W + 2.5W
	Speakers		12cm x 2
Power Supply	Power Supply	Adaptor	Users within U.S or Europe: PA-130 or an equivalent recommended by Yamaha Others: PA-3C, PA-130 or an equivalent
		Batteries	Six "AA" size alkaline (LR6), manganese (R6) or Ni-MH rechargeable batteries
	Power Consumption		6W (When using PA-130 AC adaptor)
	Auto Power Off Function		Yes
Accessories	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.
	Optional Accessories		• AC adaptor: Users within U.S or Europe: PA-130 or an equivalent recommended by Yamaha Others: PA-3C, PA-130 or an equivalent • Keyboard stand: L-2C • Headphones: HPE-150/HPE-30 • Footswitch: FC4A/FC5

■ PANEL LAYOUT

Front Panel



❶ **[⏻] (Standby/On) switch**
❷ **[MASTER VOLUME] dial**
❸ **[DEMO] button**
❹ **[METRONOME] button**
❺ **[TEMPO/TAP] button**
❻ **[PHRASE REC] button**
❼ **[1 LISTEN & LEARN] button**
❽ **[2 TIMING] button**
❾ **[3 WAITING] button**
❿ **LESSON PART**
[L] button
[R] button

In the Song mode

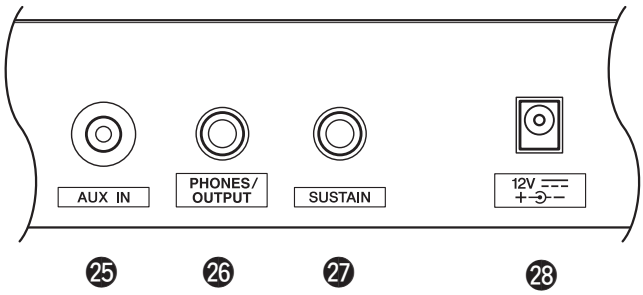
⓫ **[A-B REPEAT] button**
⓬ **[REW] button**
⓭ **[FF] button**
⓮ **[PAUSE] button**

In the Style mode

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

⓯ **[START/STOP] button**
⓰ **[SONG] button**
⓱ **[VOICE] button**
⓲ **[STYLE] button**
⓳ **Number buttons [0]–[9], [+], [-]**
⓴ **[PORTABLE GRAND] button**
㉑ **[ULTRA-WIDE STEREO] button**
㉒ **[SOUND EFFECT] button**
㉓ **[FUNCTION] button**
㉔ **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

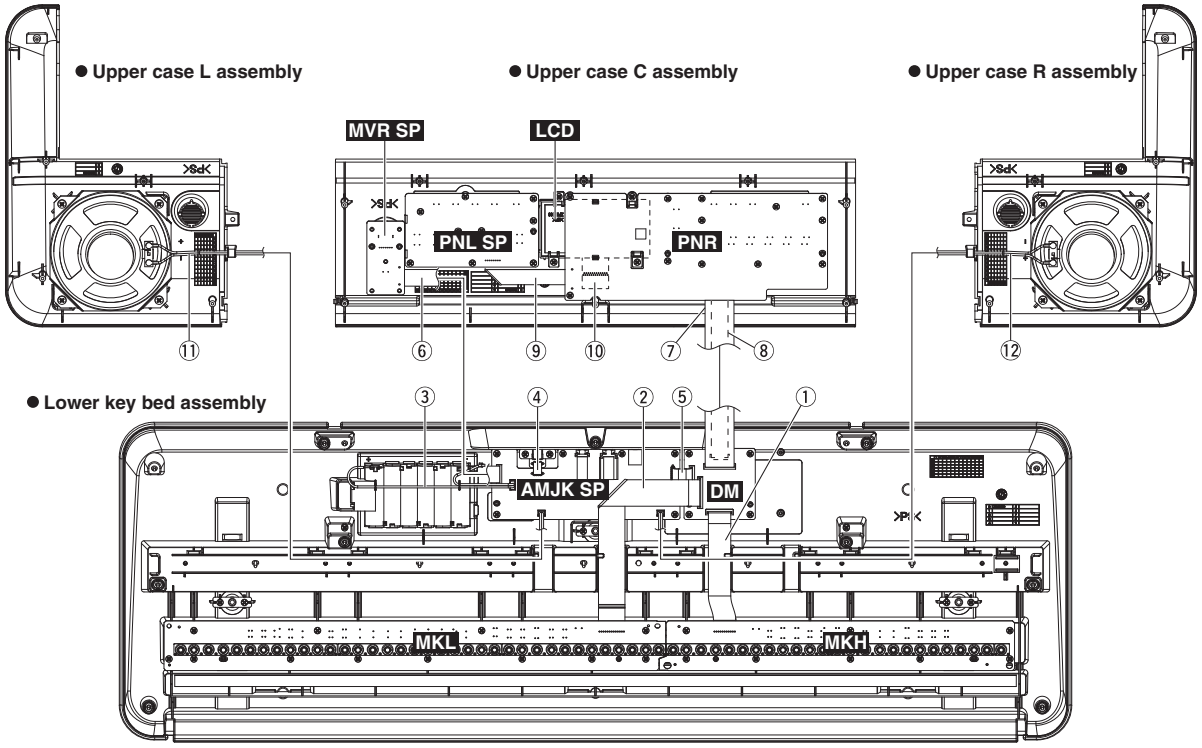


㉕ **[AUX IN] jack**
㉖ **[PHONES/OUTPUT] jack**
㉗ **[SUSTAIN] jack**
㉘ **DC IN jack**

Keyboard
Since this keyboard does not have touch response, the level of the sound does not change in response to your playing strength. Therefore, your performance may not sound correctly as in the preset Songs.

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



No.	Unit Name	Location	Parts No.	Connector Assembly	Destination							Remarks
①	LOWER CASE ASSEMBLY	220	ZQ63150)	MKH	MKH - CN1	*1	*5	DM- CN402	*1	*5		11P L=160
②		230	(ZQ63160)	MKL	MKL - CN1	*1	*5	DM- CN401	*1	*5		13P L=260
③		240	(ZQ79530)	BATT	BATTERY TERMINAL (+/-)	*2	*6	AMJK SP - CN102	*1	*8		
④		WH010	(ZQ62990) (ZQ85310)	DC-IN	AMJK SP - CN101	*3	*7	AMJK SP - CN100	*3	*7		3P L=60
⑤		WH020	(ZQ63000) (ZQ85320)	AMJK	AMJK SP - CN103	*3	*7	DM- CN501	*1	*5		14P L=60
⑥	UPPER CASE C ASSEMBLY	WH030	(ZQ63170)	MVR	MVR SP- CN201	*3	*7	AMJK SP - CN104	*1	*5		7P L=210
⑦		WH110	(ZQ63180)	PNR1	PNR - CN001	*3	*7	DM - CN301	*1	*5		13P L=160
⑧		WH120	(ZR70830)	PNR2	PNR - CN002	*3	*7	DM - CN302	*1	*5		7P L=160
⑨		WH130	(ZQ63200)	PNL	PNR - CN004	*3	*7	PNL SP - CN005	*1	*5		8P L=135
⑩				FPC	LCD DISPLAY	*4	*7	PNR SP - CN003	*1	*9		
⑪	UPPER CASE L ASSEMBLY			SP	SPEAKER L	*4	*7	AMJK SP - CN152	*1	*8		
⑫	UPPER CASE R ASSEMBLY			SP	SPEAKER R	*4	*7	AMJK SP - CN151	*1	*8		

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

Connection Method

*1: Installation

*2: Manual soldering

*3: Dip soldering

*4: Connected as Assy

Connection Direction

*5: Edge mark is adjusted to Pin 1 mark (△mark).

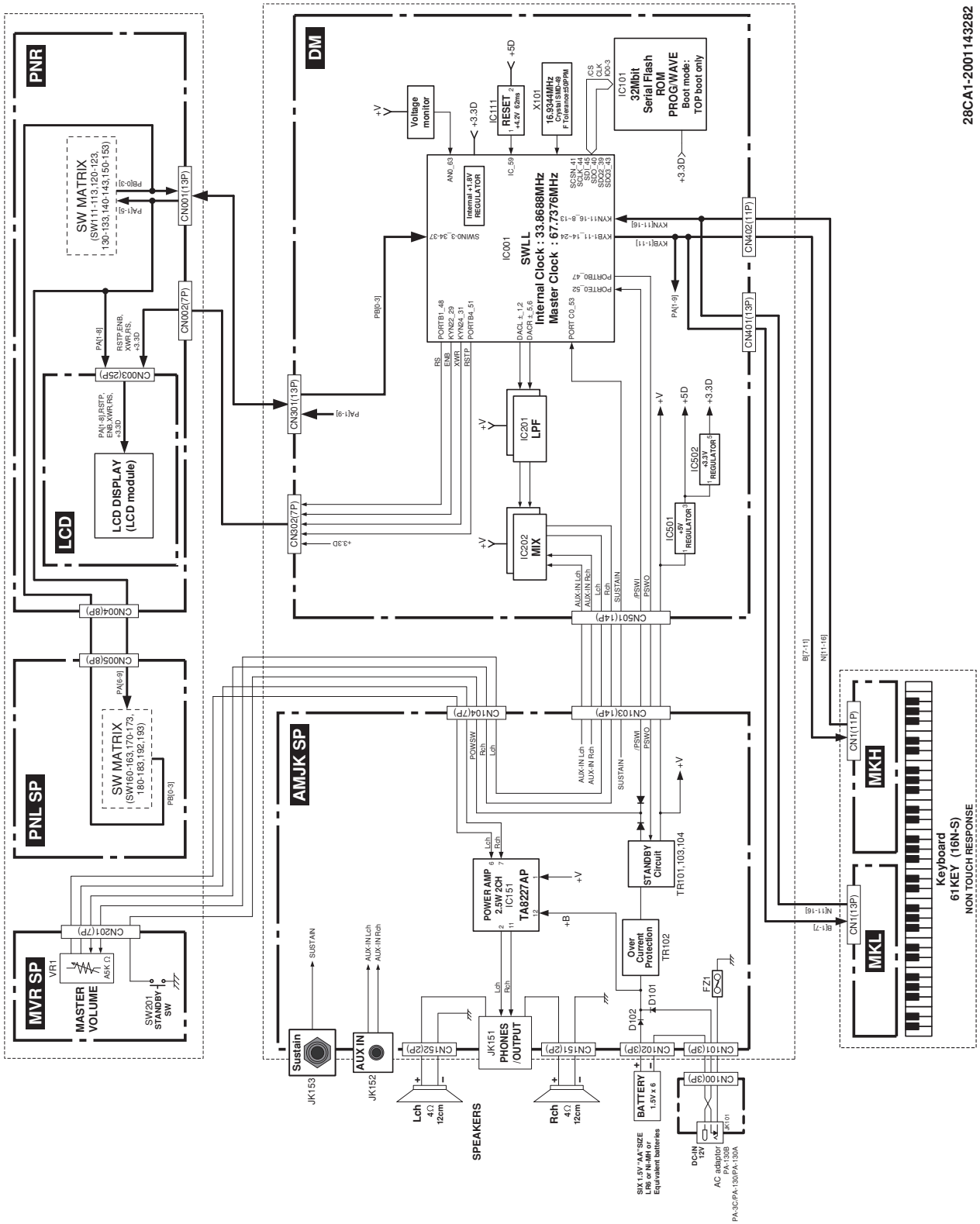
*6: Red wire is connected to (+) terminal. Black wire is connected to (–) terminal.

*7: Connected

*8: Red wire is adjusted to Pin 1 mark (△mark).

*9: The contact point of the connector is adjusted to the conductor of FPC.

BLOCK DIAGRAM



■ DISASSEMBLY PROCEDURE

Caution:

- After removing the ribbon cable from the rib during disassembly, be sure to always reattach the ribbon cable to its original position.

1. Upper Case C Assembly (Time required: About 2 minutes)

1. Remove the five screws [100] and three screws [110]. (Fig.1)
2. Remove the two clips [A], and remove the upper case C assembly in the direction of the arrow in Fig.2. (Fig.2)

* ***Remove the two clips [A] by pressing in with a slot-head screwdriver or similar tool.***

● **Bottom view**

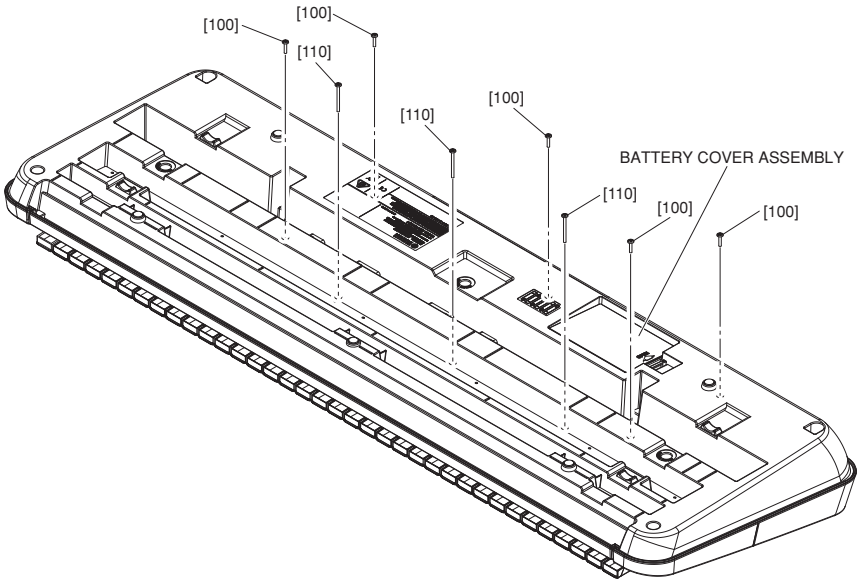


Fig.1

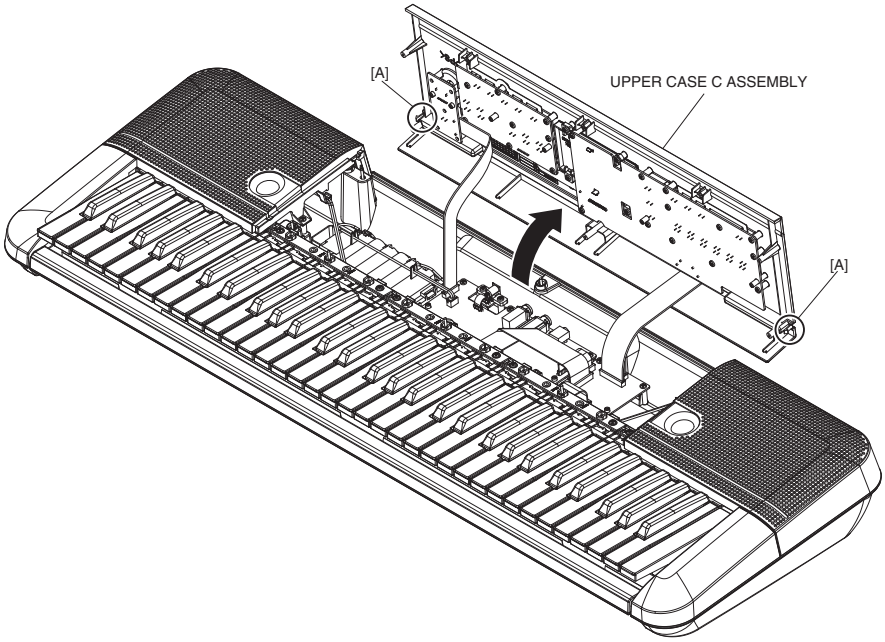


Fig.2

2. DM Circuit Board (Time required: About 3 minutes)

1. Remove the upper case C assembly. (See procedure 1.)
2. Remove the four screws [100A], and remove the DM circuit board. (Fig.3)

* ***Connectors are found in two locations, and so be careful when removing the cable [B]. (Photo.1)***

* ***After replacing the DM circuit board, execute "Factory Set" in the Test program.***

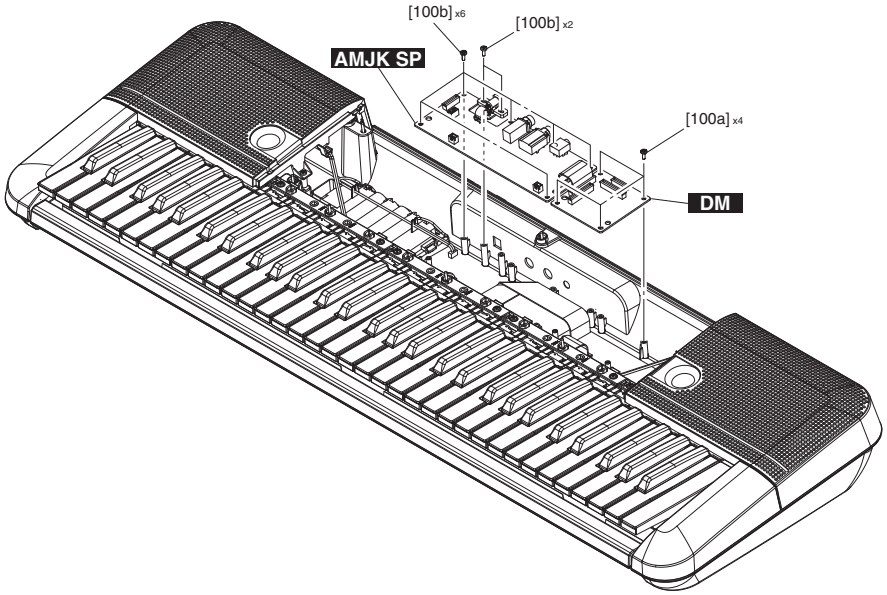


Fig.3

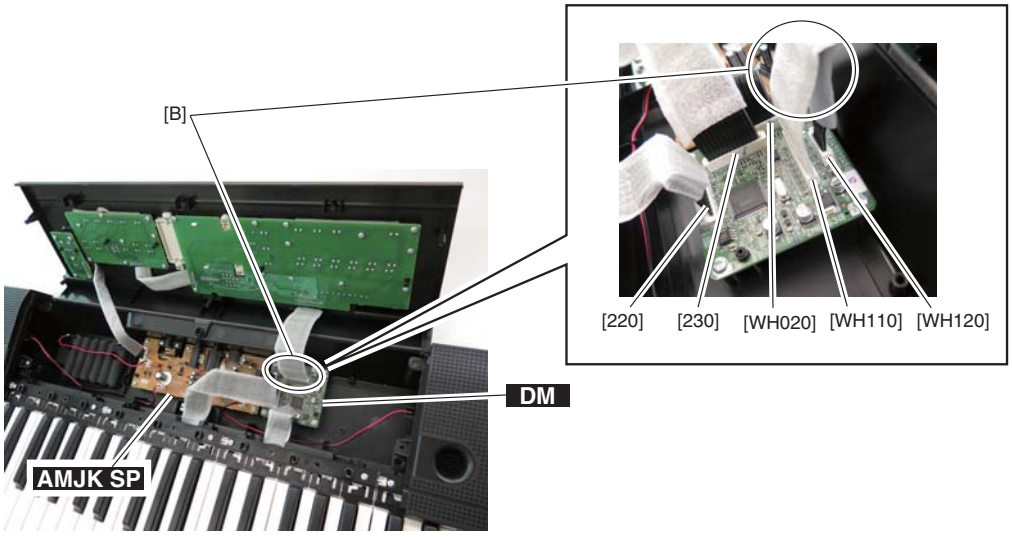


Photo.1

3. AMJK SP Circuit Board (Time required: About 3 minutes)

1. Remove the upper case C assembly. (See procedure 1.)
2. Remove the eight screws [100B], and remove the AMJK SP circuit board. (Fig.3)

4. MVR SP Circuit Board (Time required: About 3 minutes)

1. Remove the upper case C assembly. (See procedure 1.)
2. Remove the volume knob from the front panel. (Fig.4)
3. Remove the five screws [350A], and remove the MVR SP circuit board. (Fig.5)

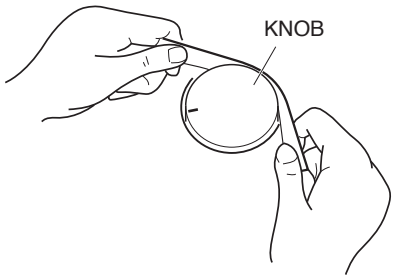


Fig.4

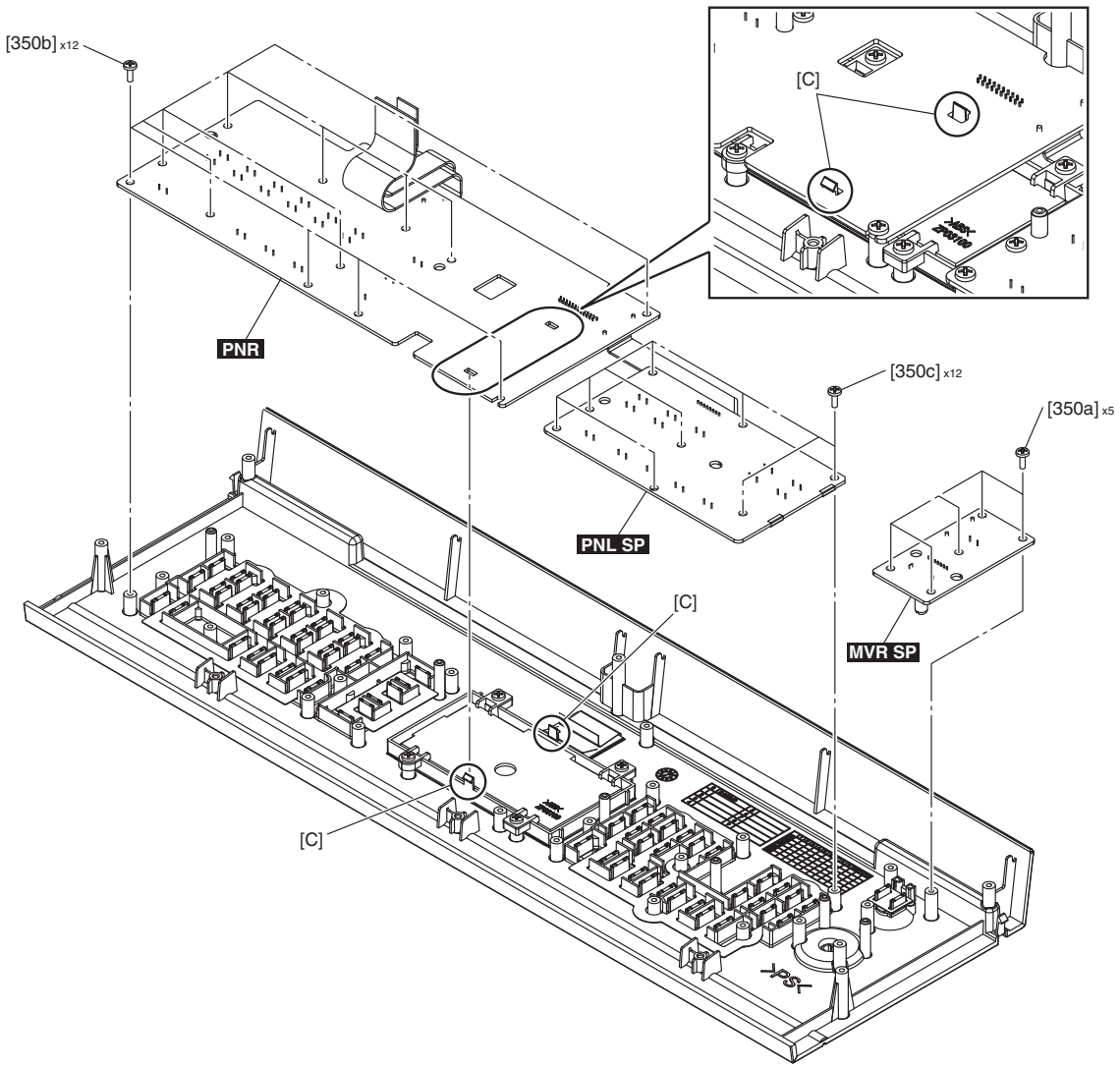


Fig.5

5. PNR Circuit Board (Time required: About 4 minutes)

1. Remove the upper case C assembly. (See procedure 1.)
2. Remove the 12 screws [350B] and 2 clips [C]. (Fig.5)
3. Remove the PNR circuit board in the direction of the arrow in Photo.2. (Photo.2)

* ***When mounting the PNR circuit board, tighten the screw numbers 5 and 6 in numerical order in the PNR circuit board diagram in Fig.6. (Fig.6)***

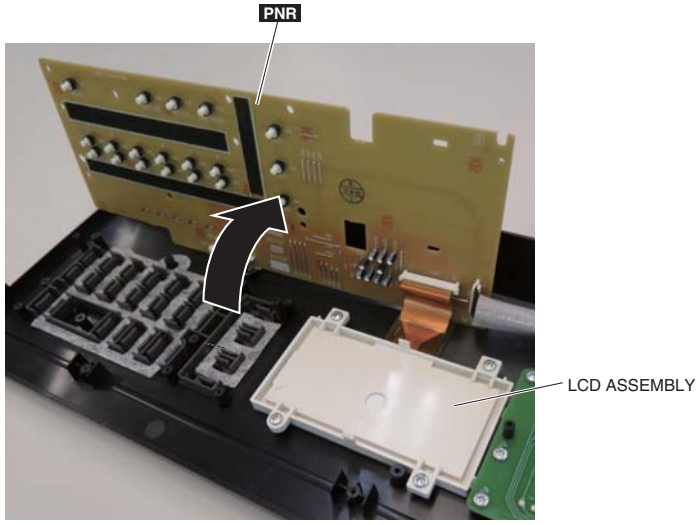


Photo.2

● **Top view**

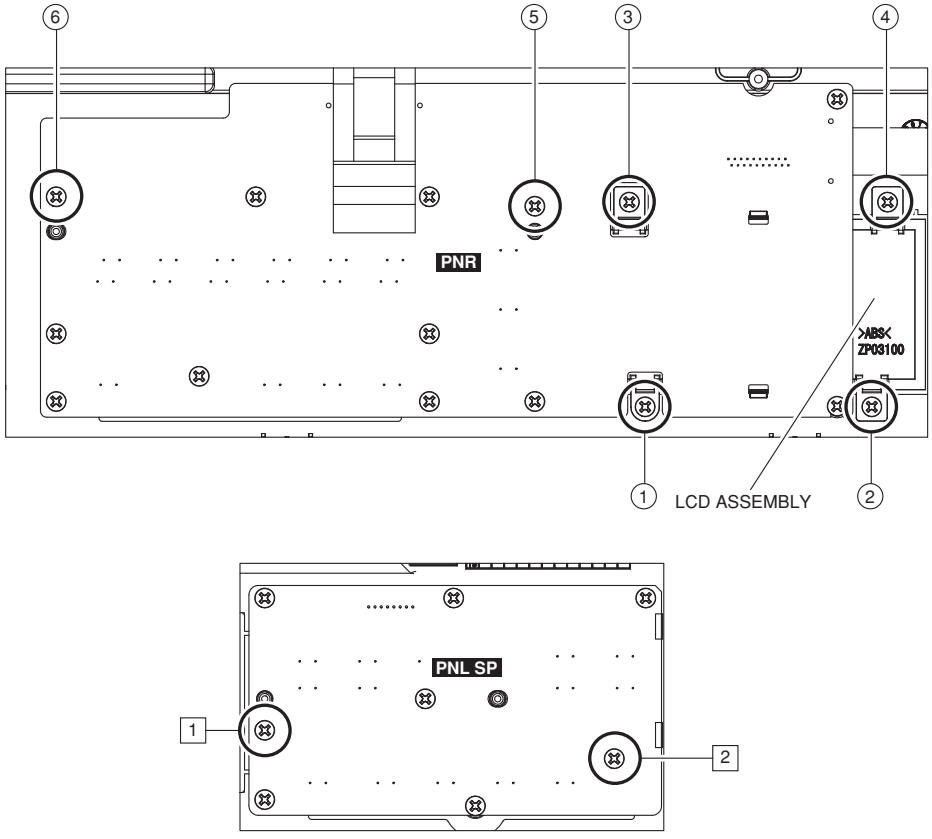


Fig.6

6. PNL SP Circuit Board (Time required: About 4 minutes)

1. Remove the upper case C assembly. (See procedure 1.)
2. Remove the eight screws [350C], and remove the PNL SP circuit board. (Fig.5)

* ***When mounting the PNL SP circuit board, tighten the screw numbers 1 and 2 in numerical order in the PNL SP circuit board diagram in Fig.6. (Fig.5)***

7. LCD Assembly (Time required: About 5 minutes)

1. Remove the upper case C assembly. (See procedure 1.)
2. Remove the PNR circuit board. (See procedure 5.)
3. Remove the four screws [350], and remove the LCD assembly. (Fig.7)

* ***When mounting the LCD assembly, tighten the screw numbers 1 to 4 in numerical order in the PNR circuit board diagram in Fig.6. (Fig.6)***

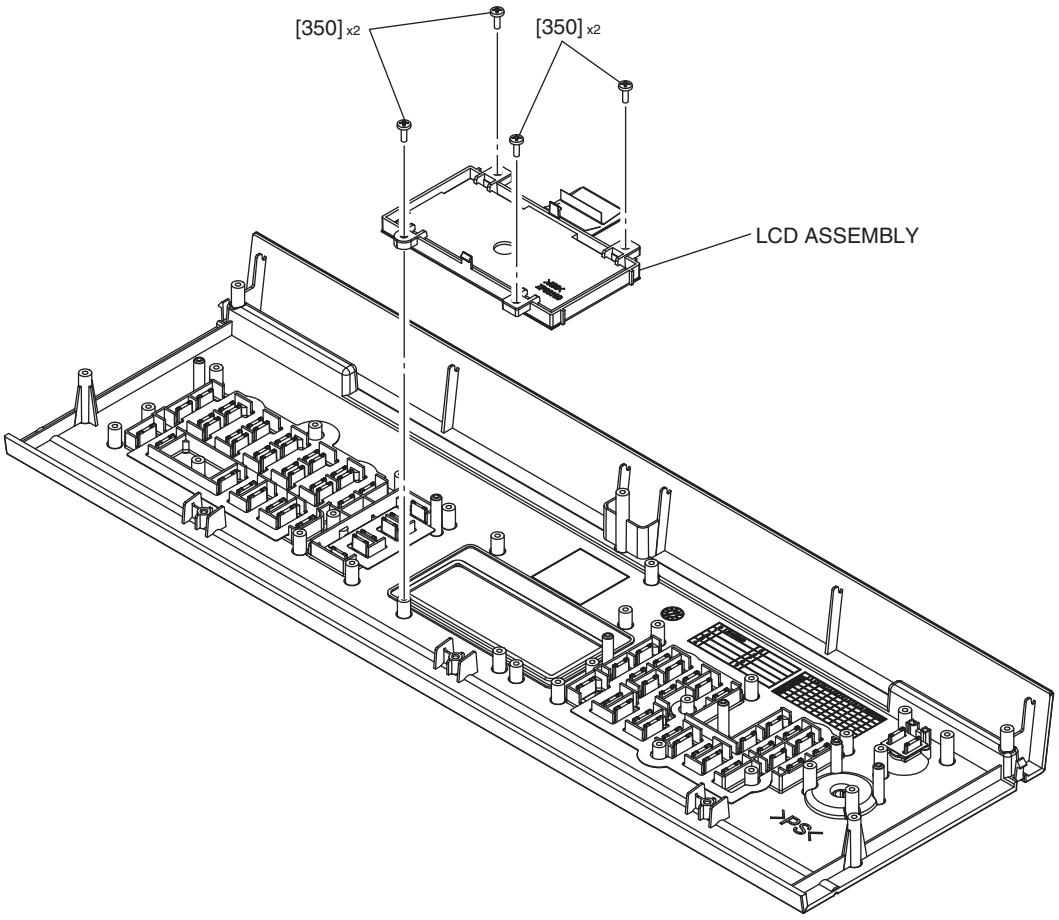


Fig.7

8. Upper Case L Assembly and Upper Case R Assembly (Time required: About 4 minutes)

1. Remove the upper case C assembly. (See procedure 1.)
2. Remove the four screws [100] and screw [110]. (Fig.8)
3. Remove the screw [100], and remove the upper case L assembly or upper case R assembly. (Fig.9)

* ***The upper case L assembly and upper case R assembly can be removed in the same way.***

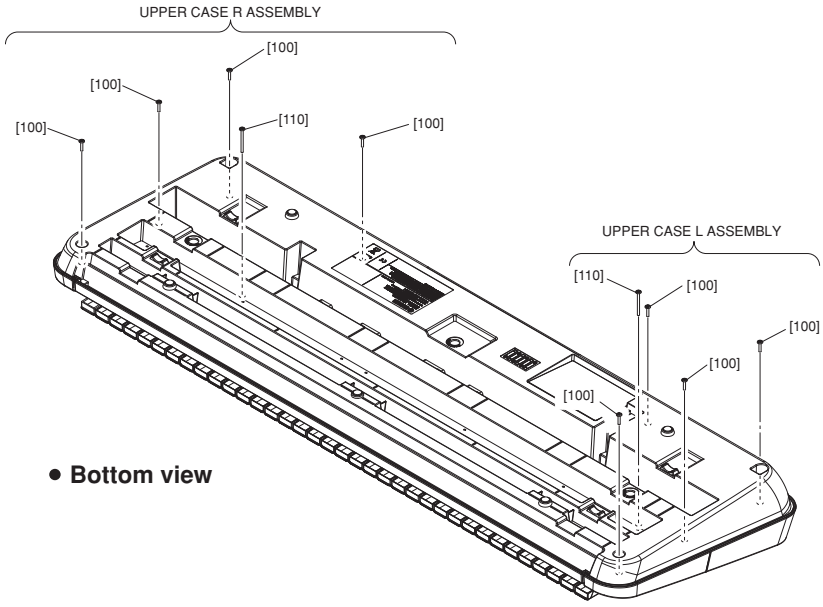


Fig.8

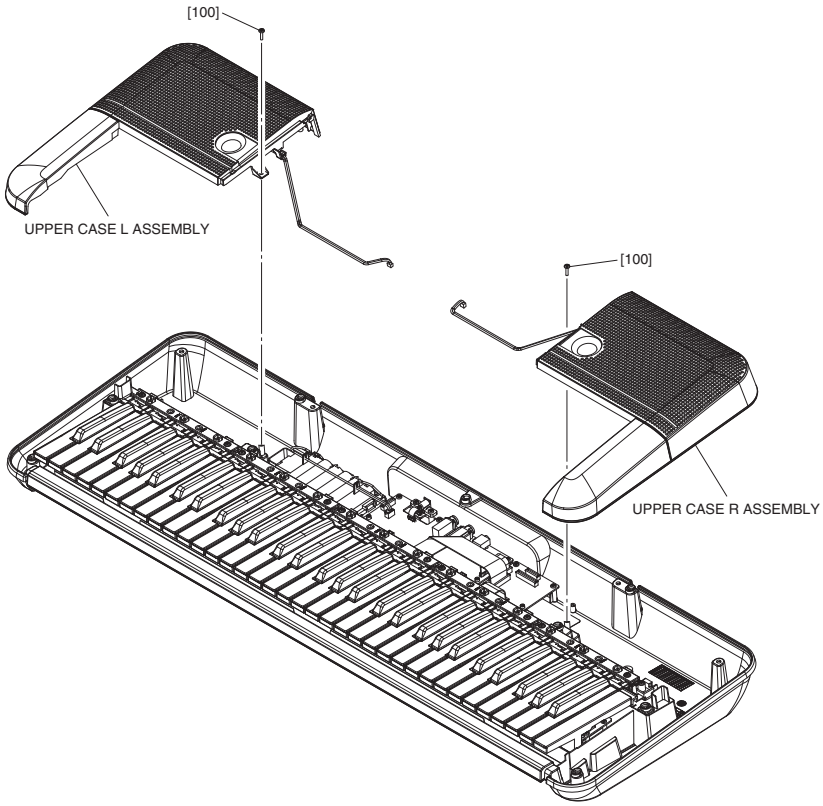


Fig.9

9. Speaker (Time required: About 5 minutes)

1. Remove the upper case C assembly. (See procedure 1.)
2. Remove the upper case L assembly and upper case R assembly. (See procedure 8.)
3. Remove the four screws [320], and remove the speaker. (Fig.10)

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

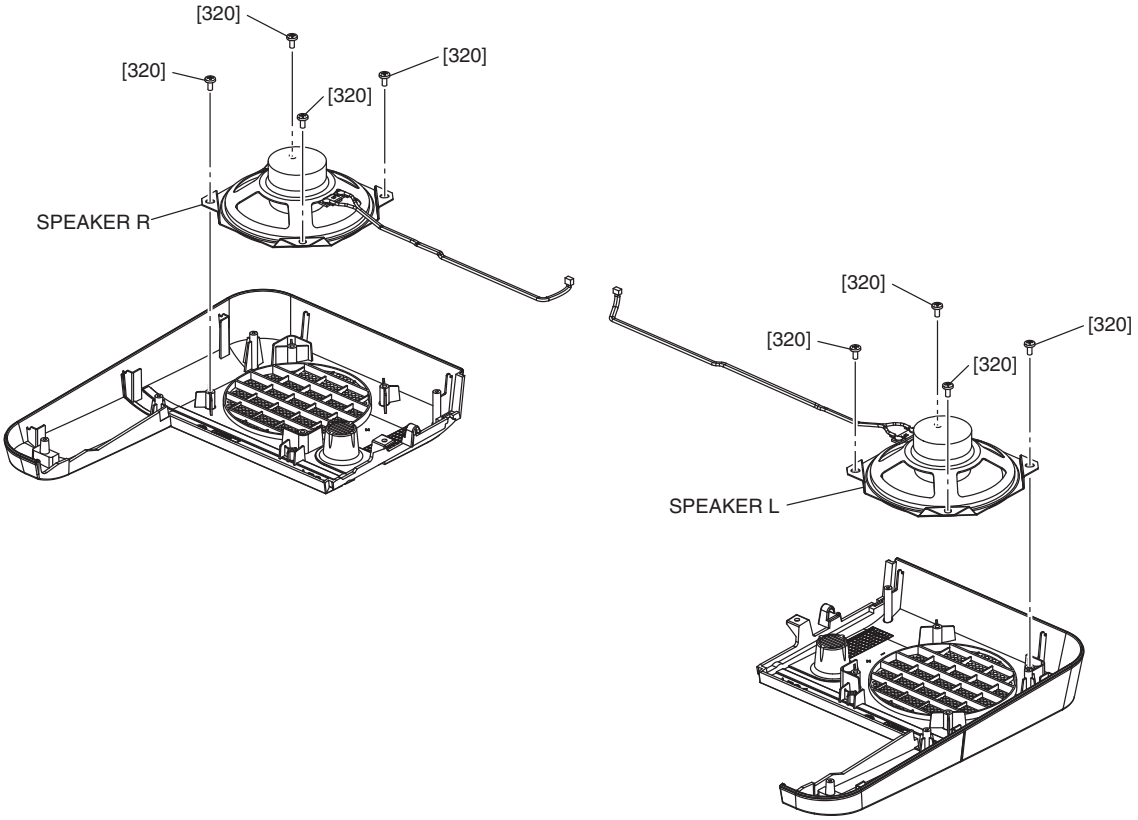


Fig.10

10. Disassembling the Keyboard (Time required: About 13 minutes)

1. Remove the upper case C assembly. (See procedure 1.)
2. Remove the upper case L assembly and upper case R assembly. (See procedure 8.)

- White keys and black keys

* ***The white and black keys are grouped in single octave sets starting from the left side and consist of a total of five sets. Only the C6 white key, unlike the other keys, is not included in a set. (Fig.11)***

1. Each set of white and black keys is removed by taking off the two screws [110A] for the respective set. (Fig.11)
   To remove the keys, release the two hooks at the rear of the black keys by raising them, and then lift up the white and black keys while pulling towards you a little at a time. (Photo.3)
2. The C6 white key is removed by removing the screw [110B], and then releasing the hooks in the same way as described above, and removing while pulling towards you. (Fig.11)

* ***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.11)***

- Rubber contacts

1. Remove the white and black keys corresponding to the rubber contacts to be removed. (See Fig.11 and procedure 10"White keys and black keys")
2. Remove the respective rubber contacts (Photo.4 and Fig.12)

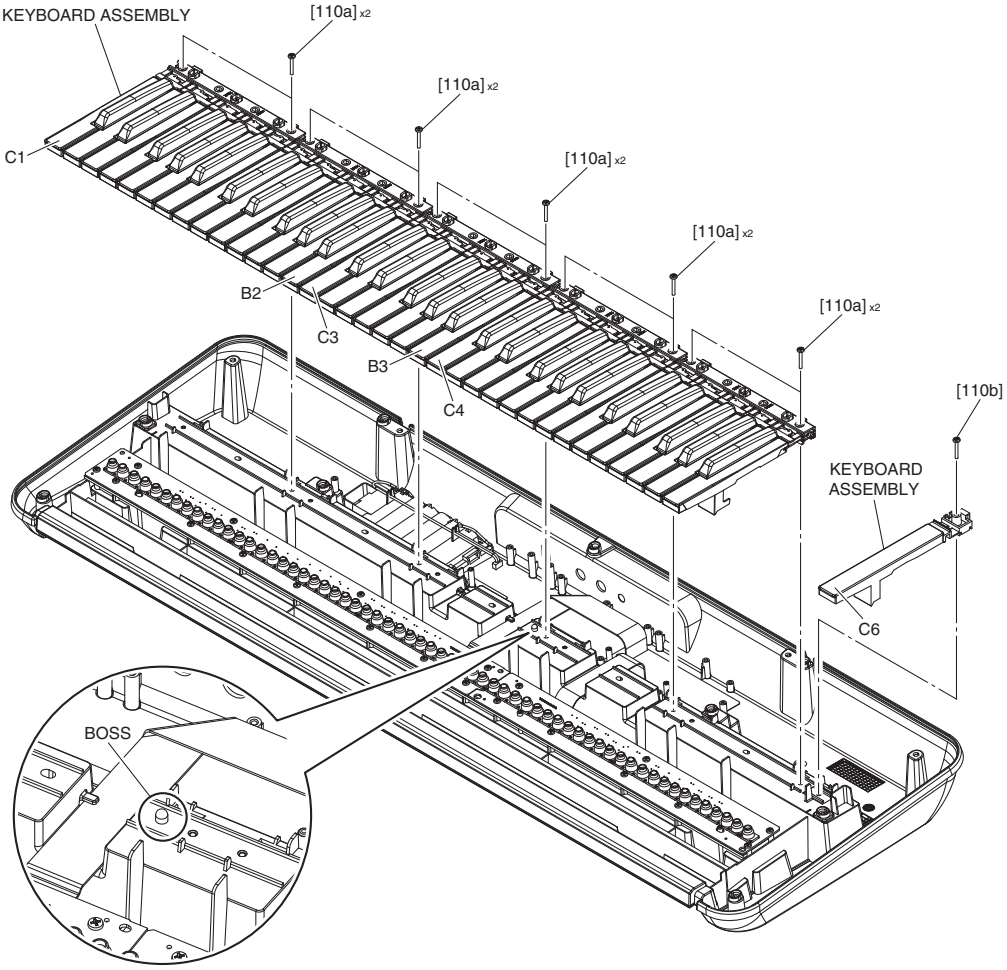


Fig.11

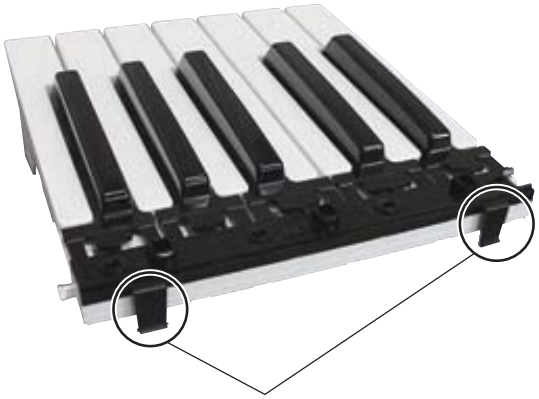


Photo.3



Photo.4

- MKL circuit board
    1. Remove the C1 to B3 white and black keys. (See Fig.11 and procedure 10"White keys and black keys")
    2. Remove the 12 screws [90A], and remove the MKL circuit board. (Fig.12)

* ***When mounting the MKL circuit board, tighten the screw numbers 1 and 12 in numerical order in Fig.13. (Fig.13)***

- MKH circuit board
    1. Remove the C4 to C6 white and black keys. (See Fig.11 and "White keys and black keys")
    2. Remove the 8 screws [90B], and remove the MKH circuit board. (Fig.12)

* ***When mounting the MKH circuit board, tighten screw numbers 1 and 8 in numerical order in Fig.13. (Fig.13)***

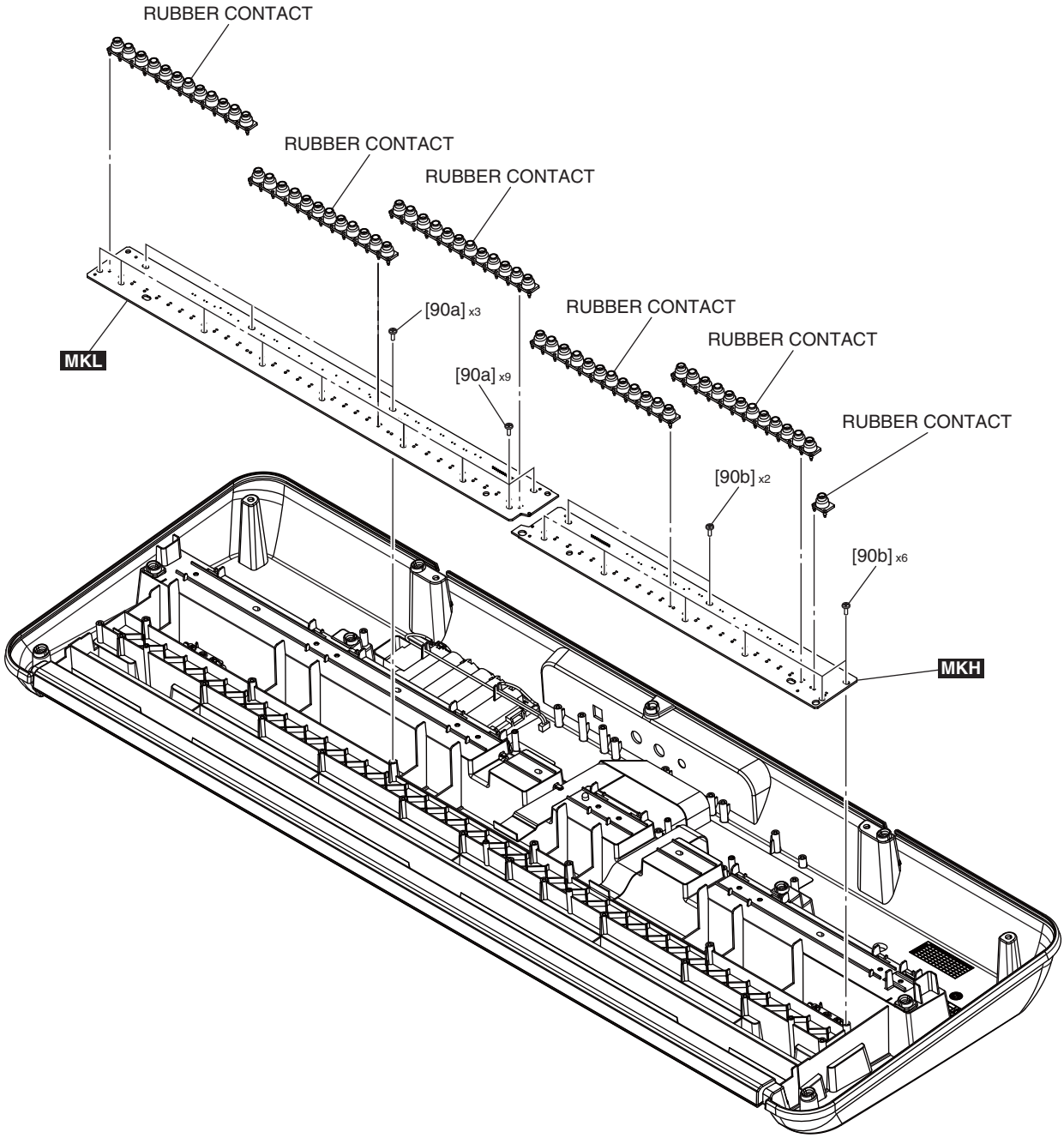


Fig.12

- **Top view**

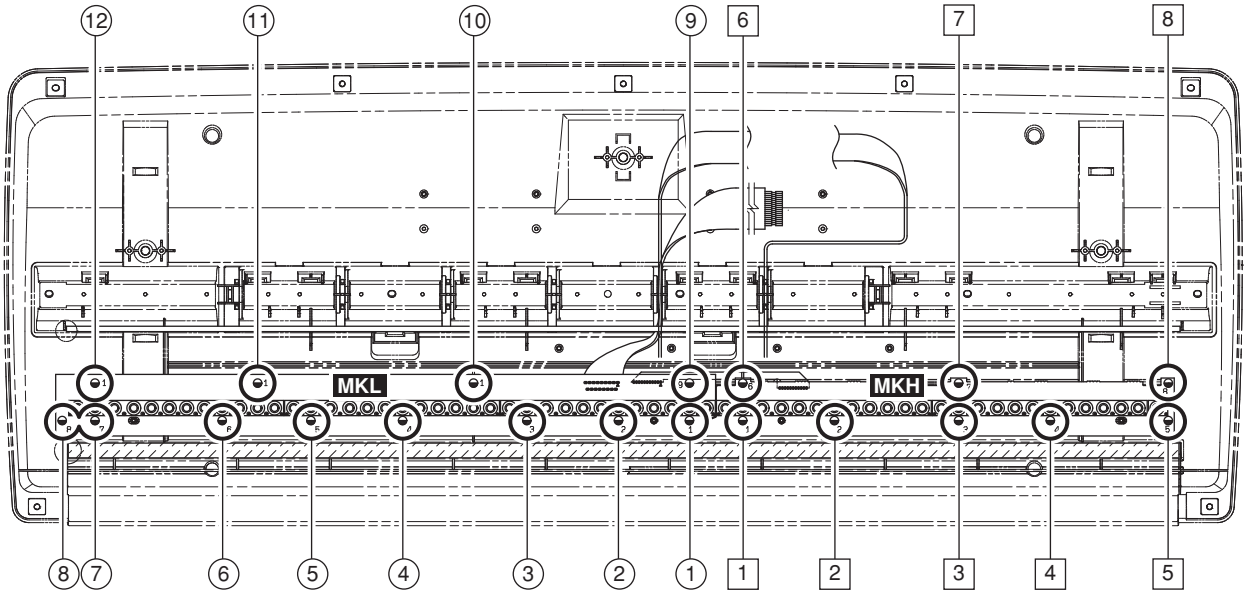


Fig.13

11. Removing the Spring Terminals

- Spring terminal A and spring terminal B (Time required: About 4 minutes)
  1. Remove the upper case C assembly. (See procedure 1.)
  2. Remove the BATT ribbon cable soldered to spring terminals A and B. (Photo.5)
  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.14)
  5. To remove spring terminal B, release the hook, and pull it out from the inside. (Fig.14)
- Spring terminal C and spring terminal D (Time required: About 2 minutes)
  1. Remove the battery cover assembly.
  2. Release the hooks, and pull out spring terminals C and D. (Fig.14 and Fig.15)

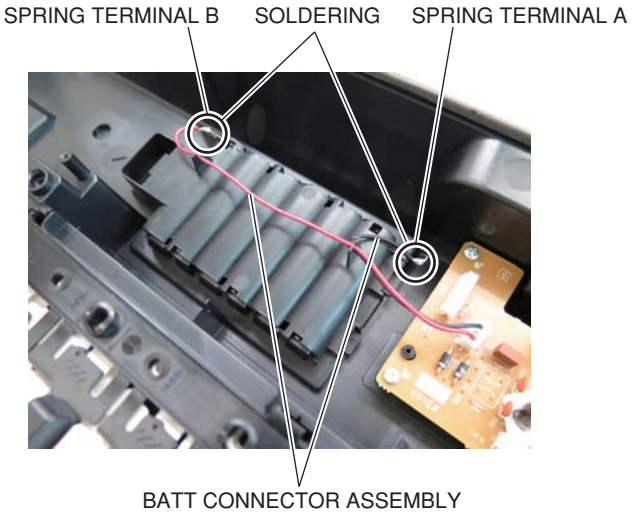


Photo.5

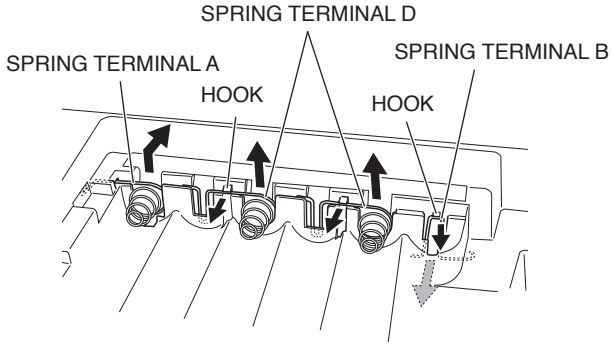


Fig.14

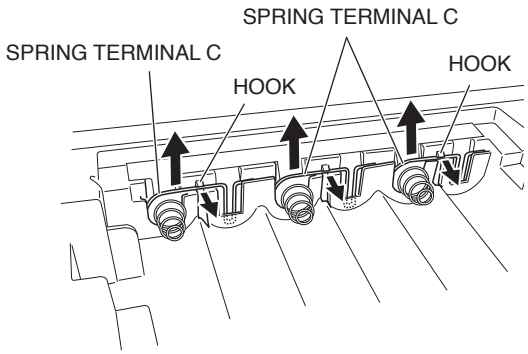


Fig.15

■ CIRCUIT BOARDS

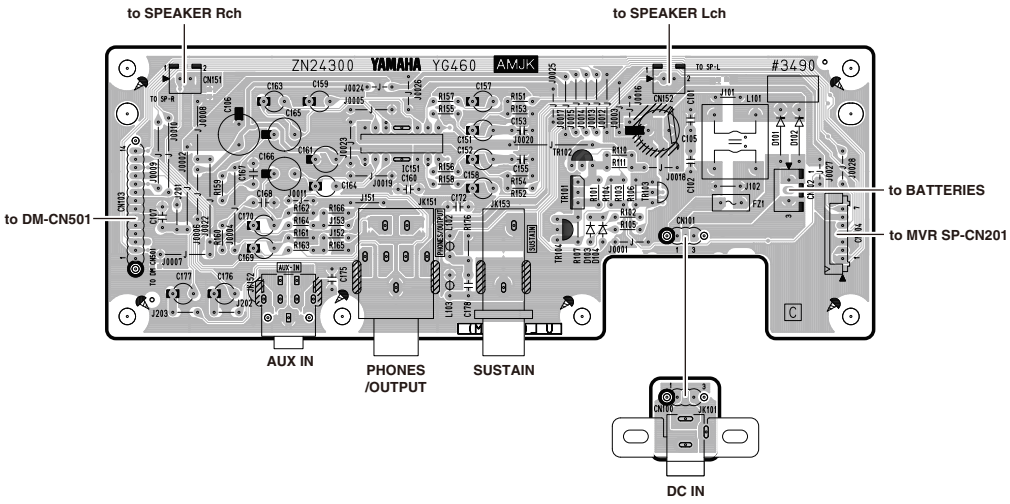
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PNL SP Circuit Board (YG460CO) 22
PNR Circuit Board (YG459CO) 23
MKL Circuit Board (YG781C0) 23
MKH Circuit Board (YG780C0)..... 24

Note:

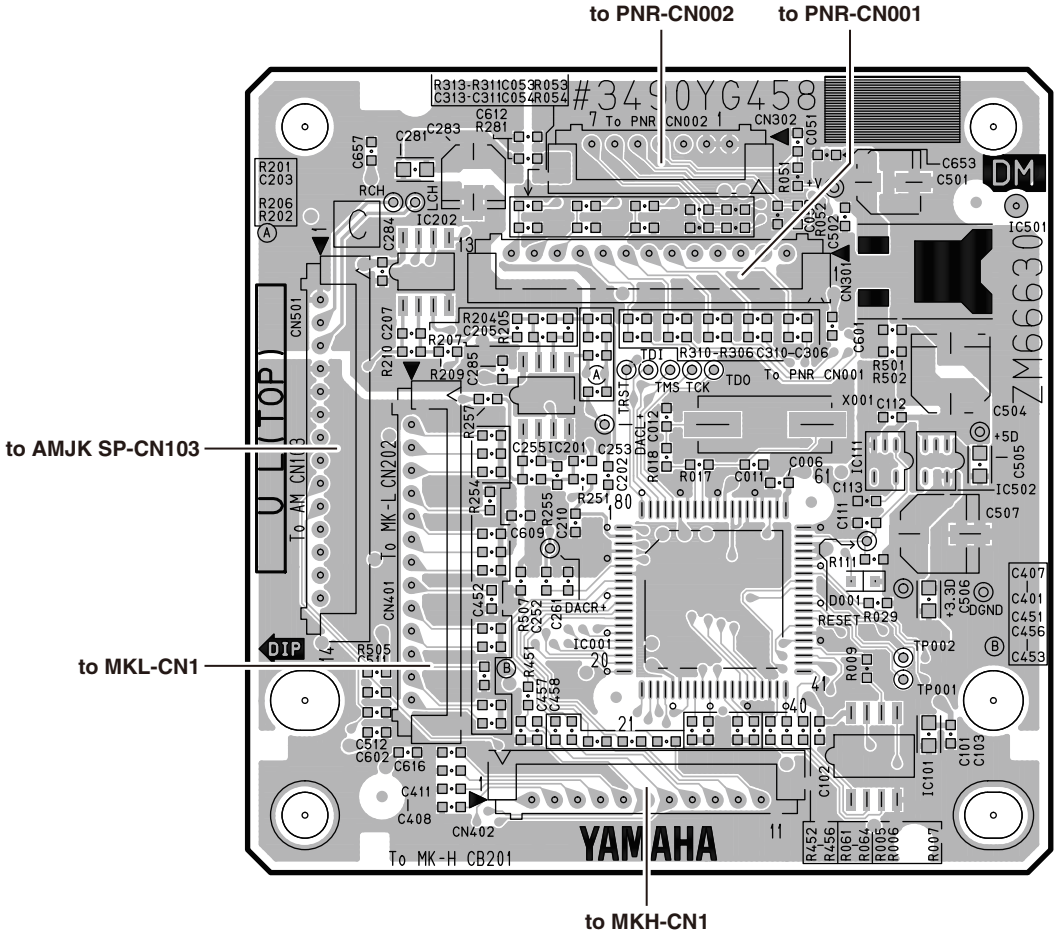
- For details on the circuit board parts, see the Parts List.

● AMJK SP Circuit Board (YG460CO)



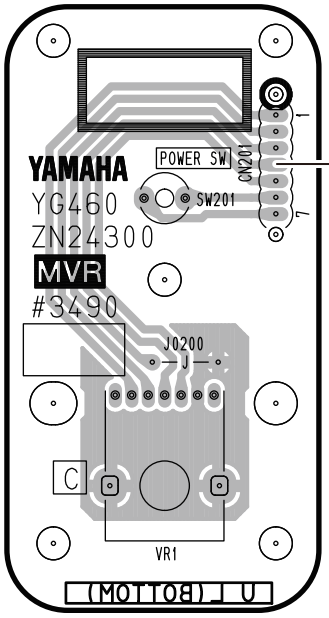
Component Side
2NA-ZF28700 1

● DM Circuit Board (YG458CO)



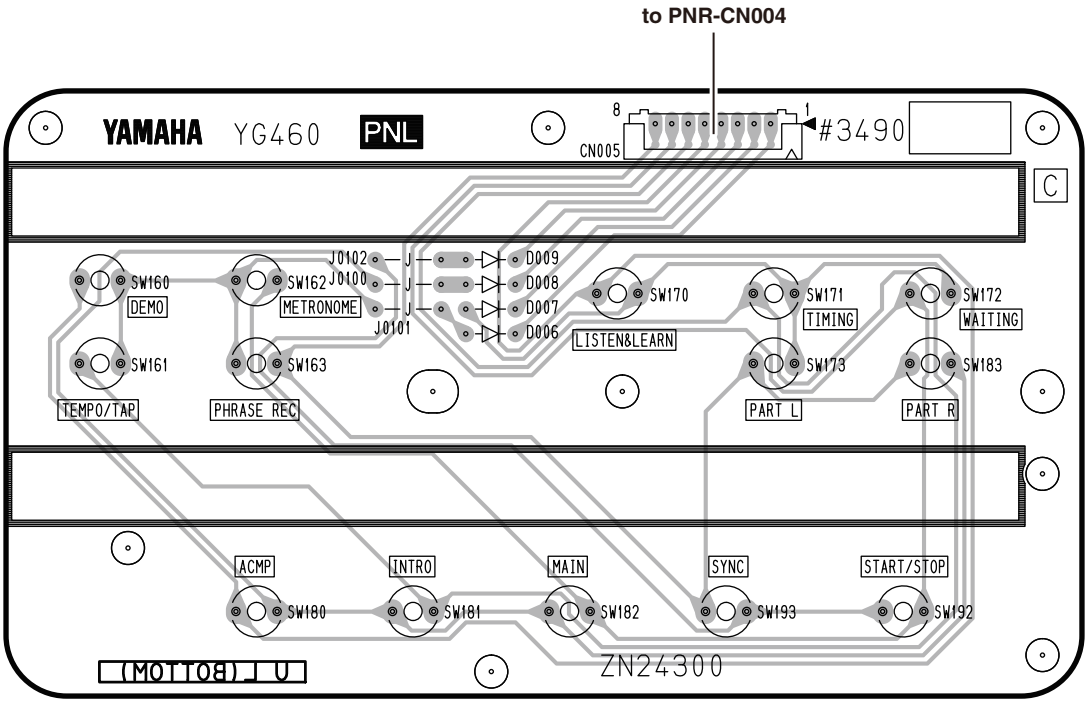
Component Side
2NA-ZM66630

● **MVR SP Circuit Board (YG460CO)**



Component Side

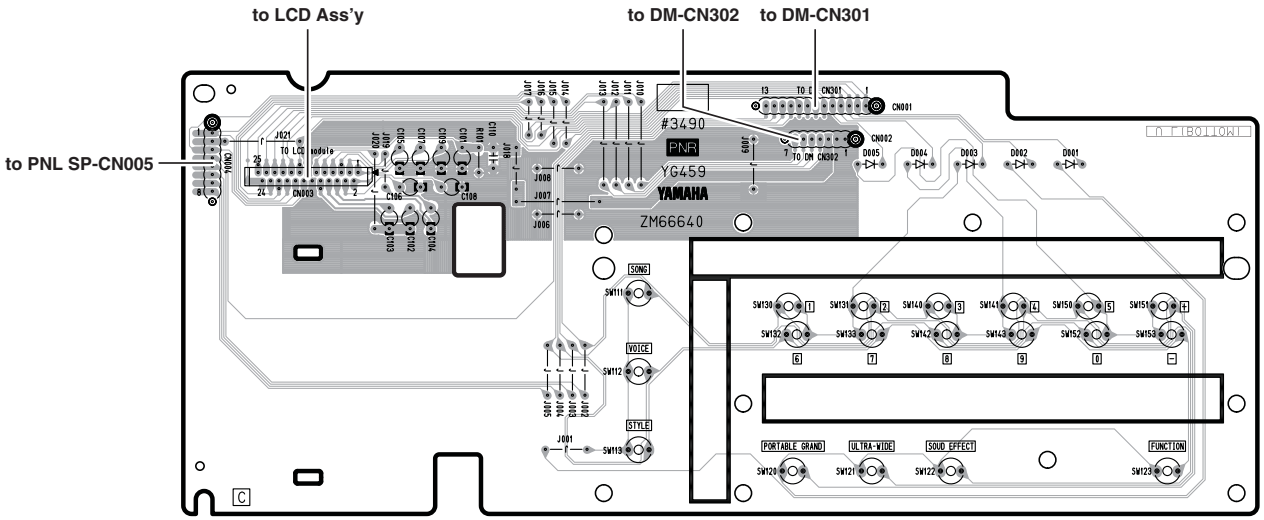
● **PNL SP Circuit Board (YG460CO)**



Component Side

2NA-ZF28700 1

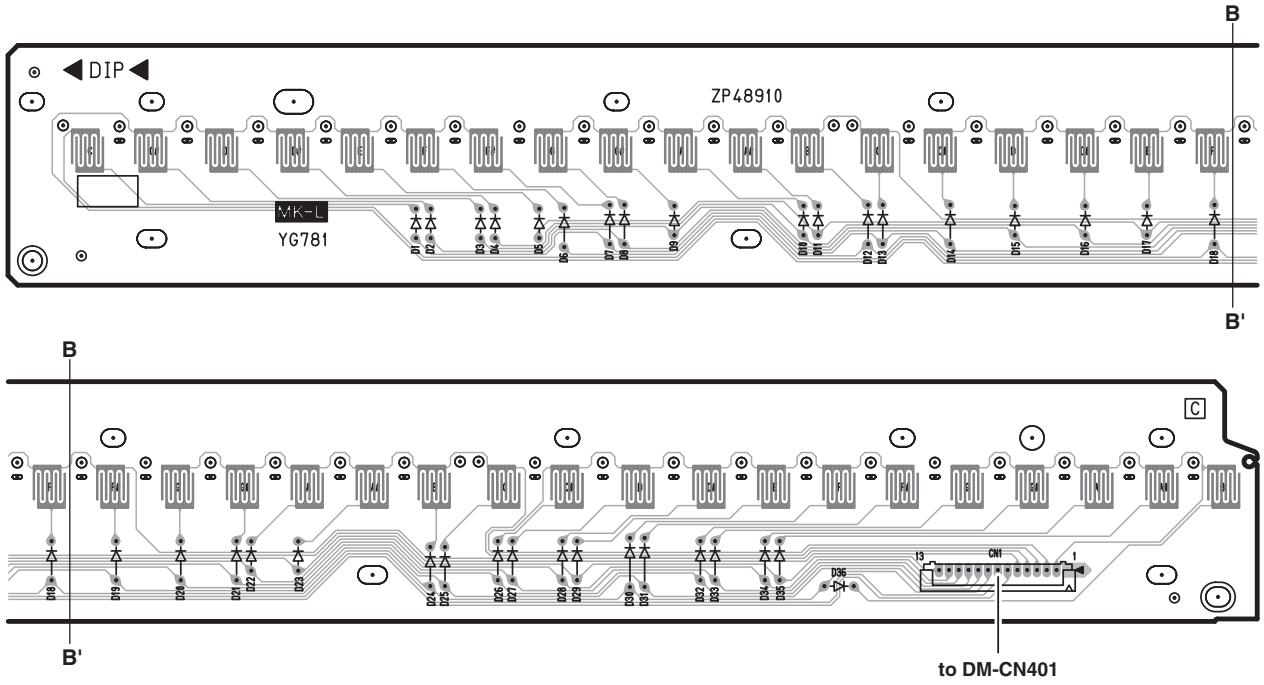
● PNR Circuit Board (YG459CO)



Component Side

2NA-ZM66640 1

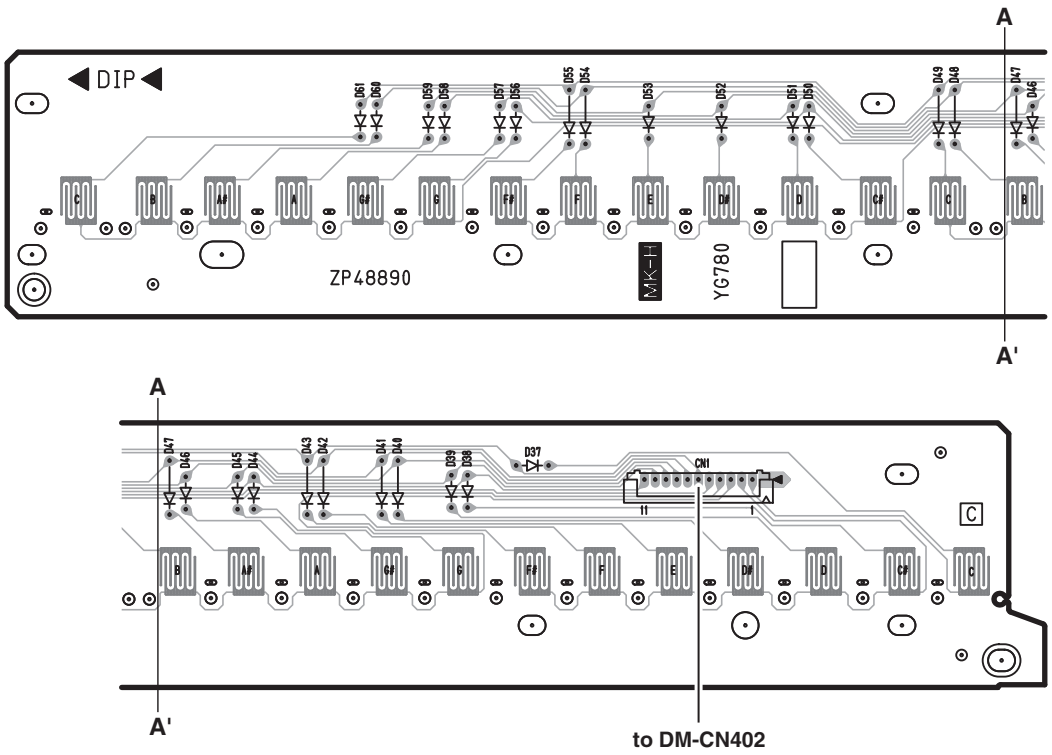
● MKL Circuit Board (YG781C0)



Component Side

2NAK8-ZP48910

● MKH Circuit Board (YG780C0)



Component Side
2NAK8-ZP48890

OVER-VOLTAGE DETECTION

If the PSR-E253/YPT-255 detects a voltage overload while booting, this function automatically turns the power off.

For example)

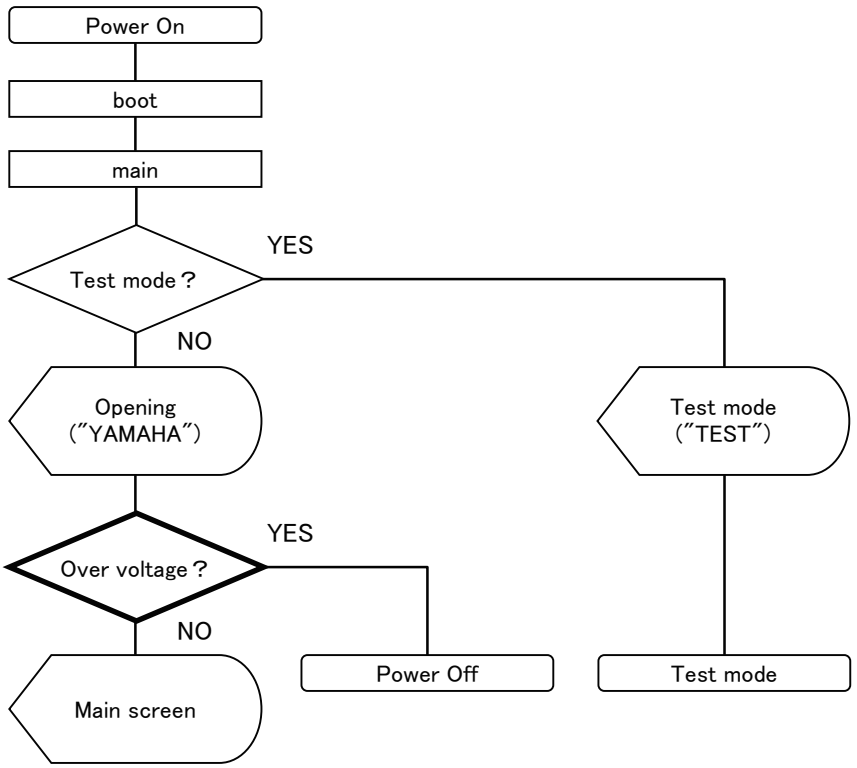
Trouble	"The PSR-E253 automatically shuts off while booting."
Details	It will turn off after the opening screen "YAMAHA". However, there is no problem when starting the Test mode.
Possible cause	The AC adapter may be outputting an overvoltage. Incompatible or defective AC adapter may be used.
Repairs	Replace with the genuine AC adapter PA-130, PA-130A or PA-130B.

1. Features

The voltage and Threshold of the detection

- DC IN: 18V
- +V (input to the pin No.63 of the IC001) : 3.04V

Detection flow:



DM Circuit Board Test Method

The DM Circuit Board has the test points for repairing purposes.

Use the test points for checking the DM Circuit Board when the following problems happen.

Problems and Test points

- No display after turning on the power --> Check the test points from No.1 to 4 sequentially.
- No sound or distorted sound --> Check the test points from No.5 to 8 sequentially.

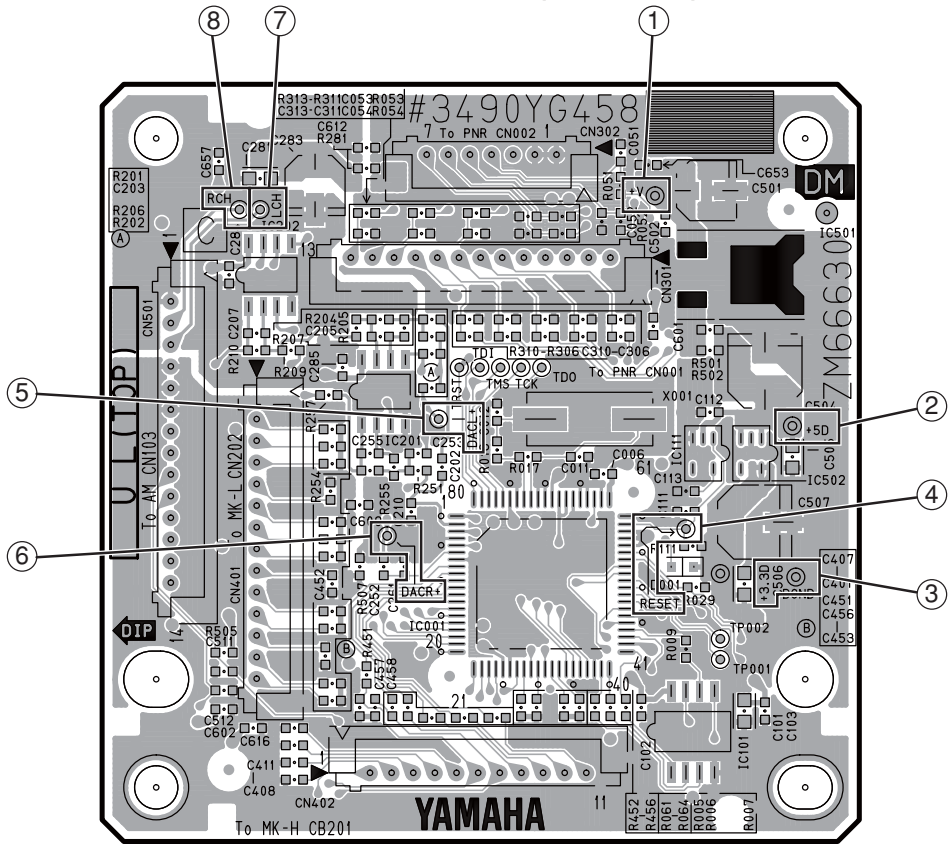
Table Test Point List

NO.	Test Point	Circuit	Criteria for judgment	Measure with	Possible faulty parts
①	+V	Power supply for DM	8.0V or more	Multimeter	TR101 or FZ1 (On AMJK Circuit Board)
②	+5D	5V Regulator	5.0V±0.5V	Multimeter	IC501
③	+3.3D	3.3V Regulator	3.3V±0.3V	Multimeter	IC502
④	RESET	CPU Reset	3.3V±0.3V	Multimeter	IC111
⑤	DACL+	L ch Output from TG IC	There should be audio output without distortion.	Signal Checker	IC001
⑥	DACR+	R ch Output from TG IC	There should be audio output without distortion.	Signal Checker	IC001
⑦	Lch	L ch Output from DM	There should be audio output without distortion.	Signal Checker	IC201 or IC202
⑧	Rch	R ch Output from DM	There should be audio output without distortion.	Signal Checker	IC201 or IC202

Caution:

- Use the genuine AC adapter PA-130, PA-130A or PA-130B for checking.

DM Circuit Board (ZM666300)



Component Side

TEST PROGRAM

Caution:
- When the Factory Set is executed in test number 061, all setting data is erased.

1. Measurement conditions

1-1. Environment

Perform testing under following conditions.

- Normal temperature (5°C to 40°C)
- Normal humidity (Relative humidity: 30% to 90%)

1-2. Power supply

Use the AC adapter below.

- PA-3C, PA-130, or PA-130B

1-3. Measuring instruments

- Frequency counter (capable of measuring to three or more decimal places) (for pitch measurement)
- Level meter (using low pass filter fc=15 kHz) (for output level measurement)
- Oscilloscope (for measuring popping noise)

* Use instruments with an input impedance of 1MΩ or more.

1-4. Test jigs

- Foot switch (FC4A, FC5, or equivalent product) (for inspecting [SUSTAIN] jack)
- Oscillator (for input of sinusoidal waveform to [AUX IN] jack)
- Stereo mini-plug cable (for inspecting [AUX IN] jack)

1-5. Jack connection state

- [PHONES/OUTPUT] jack: Measuring instrument is connected (L and R channels: 33Ω load)
- [SUSTAIN] jack: Before turning on the power of the PSR-E253, plug in the foot switch.

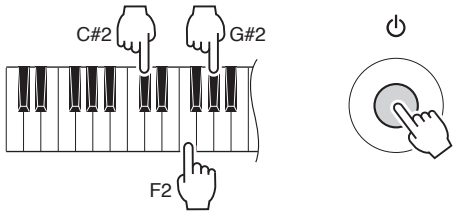
1-6. PSR-E253 settings

- [MASTER VOLUME] Dial: Maximum
- Pedal : Off
- Reverb type: Off
- Other settings: Initial values at power on

2. Test Mode

2-1. Starting Test mode

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



2) When Test mode is started, **"TEST"** appears on the LCD screen.

2-2. Selection and execution of test items

1) Press the [+] or [-] buttons in the Number buttons area to select the test item.
2) Press the [START/STOP] button to start the test.
3) Check the completed test.

   Check that the cursor **(_)** is displayed below the first character of the test item name. The cursor is displayed for items where the test results were OK.

Exiting a test item

Perform the procedure below depending on whether **"OK"** or **"NG"** is displayed.

2-3. When the test result shows OK

Press the [START/STOP] button to return to selection of the test items.

2-4. When the test result shows NG

Press the [DEMO] button or the lowest key ([C1] white key) to return to the selection of test items.

* If the result was NG, pressing the [START/STOP] button does not return to the selection of the test items.

2-5. Test Item List

No.	Test item	Procedure for "Selection and execution of test items")
001	**ROM Version**	This shows the ROM version. 1) When the number [1] button is pressed, the version number of the main program is displayed as shown below. **"*** Main"** (where *** is the version number)
003	**ROM Check1**	This executes a simple check of the ROM connected to the CPU bus. 1) Check the test result. If no problem is found, **"Rom OK"** is displayed. If a problem is found, **"Rom NG"** is displayed.
009	**Pitch Precision Check**	This measures whether the pitch is output properly. 1) Before starting the test, connect the frequency counter to the [PHONES/OUTPUT] jack on the rear panel (L and R channels). 2) Press the [START/STOP] button to emit the A3 sound. During emission of the sound, **"Pit--"**appears on the LCD screen. 3) Check the value using the frequency counter. If the value is within the range below, the specifications are satisfied. [PHONES/OUTPUT] • 441.0±0.2 Hz 4) Press the [START/STOP] button to stop the A3 sound and return to the test item selection screen.
	Minimum Volume Level Check	This measures whether the minimum volume level is output properly. 1) Before starting the test, connect the level meter (using low pass filter) to the [PHONES/OUTPUT] jack on the rear panel (L and R channels). 2) Turn the [MASTER VOLUME] dial to the minimum position. 3) Press the [START/STOP] button to emit the A3 sound. During emission of the sound, **"Pit--"** appears on the LCD screen. 4) Use the level meter to check the output level values for the L and R channels. If the value is within the range below, the specifications are satisfied. [PHONES/OUTPUT] (33Ω load) • L and R: -70.0 dBu or less 5) Press the [START/STOP] button to stop the A3 sound and return to the test item selection screen.

No.	Test item	Procedure for "Selection and execution of test items")
011	**Output Level R Check**	This measures whether the output level of the R channel of the [PHONES/OUTPUT] jack is emitted properly. 1) Before starting the test, connect the level meter (using low pass filter) to the [PHONES/OUTPUT] jack on the rear panel (L and R channels). 2) Turn the [MASTER VOLUME] dial to the maximum position. 3) Press the [START/STOP] button to emit a 1kHz sinusoidal sound. During emission of the sound, **"Out-R -"** appears on the LCD screen. 4) Use the level meter to check the output level values for the L and R channels. If the value is within the range below, the specifications are satisfied. [PHONES/OUTPUT] (33Ω load) • R : -11.0 dBu±2 dB • L: -54.0 dBu or less 5) Press the [START/STOP] button to stop the 1kHz sinusoidal sound and return to the test item selection screen.
012	**Output Level L Check**	This measures whether the output level of the L channel of the [PHONES/OUTPUT] jack is emitted properly. 1) Before starting the test, connect the level meter (using low pass filter) to the [PHONES/OUTPUT] jack on the rear panel (L and R channels). 2) Turn the [MASTER VOLUME] dial to the maximum position. 3) Press the [START/STOP] button to emit a 1kHz sinusoidal sound. During emission of the sound, **"Out-L -"** appears on the LCD screen. 4) Use the level meter to check the output level values for the L and R channels. If the value is within the range below, the specifications are satisfied. [PHONES/OUTPUT] (33Ω load) • L : -11.0 dBu±2 dB • R: -54.0 dBu or less 5) Press the [START/STOP] button to stop the 1kHz sinusoidal sound and return to the test item selection screen.
023	**SW Check**	This checks whether each panel button is operating. 1) Press the [START/STOP] button to display the test button name on the LCD. 2) Press the buttons in the displayed order. The sound of the note that is set for each button is emitted (for the emitted sounds, see "Switch Test Item List"). 3) Once pressing of all buttons is completed, check the test results. If no problem is found, **"SW OK"** is displayed. If a problem is found, **"SW NG"** is displayed. * Press the [DEMO] button or the lowest key ([C1] white key) to exit the test. * If two or more buttons are pressed simultaneously, **"Over Two"** appears on the LCD screen.
030	**All LCD ON Check**	This checks whether all of the dots on the LCD screen turn on. 1) Check that all of the dots on the LCD screen turn on.
031	**All LCD OFF Check**	This checks whether all of the dots on the LCD screen turn off. 1) Check that all of the dots on the LCD screen turn off.

No.	Test item	Procedure for "Selection and execution of test items")
035	**Pedal 1 Check**	This checks whether the foot switch plugged into the [SUSTAIN] jack is working properly. 1) Press the [START/STOP] button to emit the C3 sound. 2) Step on the foot switch, and check that the C4 sound is emitted. 3) When the foot switch is released the C4 sound is stopped. If no problem is found, **"PD1 OK"** is displayed. * Before turning on the power of the PSR-E253, plug the foot switch into the [SUSTAIN] jack on the rear panel.
045	**Voltage Check**	This checks whether the voltage detection is operating properly. 1) Check the test result. If no problem is found, **"Volt OK"** is displayed. If a problem is found, **"Volt NG"** is displayed.
055	**ROM Check2**	This performs a full address check of the ROM connected to the CPU bus. This check takes about 25 seconds to complete. 1) Check the test result. If no problem is found, **"Rom OK"** is displayed. If a problem is found, **"Rom NG"** is displayed.
060	**Keyboard Check**	This checks whether each key is operating properly. 1) Press the [START/STOP] button to display the key name to be tested on the LCD. 2) Press the displayed keys in order. Sound from the C3 to B4 is repeatedly emitted based on the keys being tested. 3) Once pressing of all the keys is completed, check the test results. If no problem is found, **"KB OK"** is displayed. * Press the [DEMO] button to exit the test. * No response is made if a different key is pressed. * If two or more keys are pressed simultaneously, **"Over Two"** appears on the LCD screen. * If the keys are not pressed at the proper speed, either **"Too Slow" or** "**Too Fast"** appears on the LCD screen.
061	**Factory Set**	This initializes all the backup data in the memory and restores the default settings. 1) When the [START/STOP] button is pressed, **"Fact--"** appears on the LCD screen, and the initialization process is started. After initialization is completed, the power of the PSR-E253 is turned off. * Do not turn off the power of the PSR-E253 while **"Fact --"** appears on the LCD screen.
062	**Test Exit**	This exits test mode and switches to normal mode. 1) Press the [START/STOP] button. Test mode is automatically ended, and operation is restarted in normal mode. * Do not turn off the power of the PSR-E253 while the main screen appears. Otherwise, a malfunction may occur.

3. Other Test Items (Check in normal mode)

No.	Test item	Procedure
-	**AUX IN Level**	This checks whether the signal input operation to the [AUX IN] jack is performed properly. 1) Use the stereo mini-plug cable to connect the oscillator to the [AUX IN] jack of the rear panel. 2) Connect the level meter (using low pass filter) to the [PHONES/OUTPUT] jack on the rear panel (L and R channels). 3) Input a sinusoidal signal (1 kHz, 0 dBu) to the R channel of the [AUX IN] jack. 4) Use the level meter to check the output level values for the L and R channels. If the value is within the range below, the specifications are satisfied. [PHONES/OUTPUT] (33Ω load) • R (input side): -3.0 dBu±2 dB • L (non-input side): -64.0 dBu or less 5) Check in the same way using the procedure in steps 3) and 4) for the L channel. 6) Remove the stereo mini-plug cable from the [AUX IN] jack.
-	**Popping Noise**	This measures whether the popping noise level that occurs when the power is turned on and off is acceptable. 1) Connect the oscilloscope to the [PHONES/OUTPUT] jack on the rear panel (L and R channels). 2) Turn the [MASTER VOLUME] dial to the maximum position. 3) Press the [⏻] (Standby/On) switch to turn the PSR-E253 power on and off, and use the oscilloscope to measure the level of the popping noise for the L and R channels. If the value is within the range below, the specifications are satisfied. [PHONES/OUTPUT] (33Ω load) • L and R: 1.0 V peak to peak or less
-	**Noise Level**	This measures whether the noise level is acceptable. 1) Connect the level meter (using low pass filter) to the [PHONES/OUTPUT] jack on the rear panel (L and R channels). 2) Turn the [MASTER VOLUME] dial to the maximum position. 3) Use the level meter to check the output level values for the L and R channels. If the value is within the range below, the specifications are satisfied. [PHONES/OUTPUT] (33Ω load) • L and R: -68.0 dBu or less * Do not plug anything into the [AUX IN] jack.
-	**Batteries uncharged**	This checks whether a voltage is being supplied to the batteries. 1) Connect the AC adapter to the [DC IN] jack. 2) Measure the voltage between the spring terminals A and B in the battery case to check that the voltage is 0.2V or less (For details on the position of the spring terminals, see "Disassembly Procedure".)
-	**Vibration noise**	This checks that there is no Vibration noise. 1) Press the [VOICE] button, and select No. 174 (Ocarina). 2) Set the No. 006 (volume) in the Function settings to the default value. 3) Turn the [MASTER VOLUME] dial to the maximum position. 4) Perform scaling from the [C2] key to the [C3] key to check that no Vibration noise occurs.

4. Switch Test Item List

Turn	Button Name	LCD Display	Note Number
1	DEMO	Demo	C2
2	METRONOME	Metro	C#2
3	1 LISTEN & LEARN	Listen	D2
4	2 TIMING	Timing	D#2
5	3 WAITING	Waiting	E2
6	TEMPO/TAP	Temp/TAP	F2
7	PHRASE REC	Record	F#2
8	LEFT	Left	G2
9	RIGHT	Right	G#2
10	A-B REPEAT	AB Rep	A2
11	REW	Rew	A#2
12	FF	FF	B2
13	PAUSE	Pause	C3
14	START/STOP	StartStp	C#3
15	SONG	Song	D3
16	VOICE	Voice	D#3
17	STYLE	Style	E3
18	TENKEY 1	Tenkey 1	F3
19	TENKEY 2	Tenkey 2	F#3
20	TENKEY 3	Tenkey 3	G3
21	TENKEY 4	Tenkey 4	G#3
22	TENKEY 5	Tenkey 5	A3
23	TENKEY +	Tenkey +	A#3
24	TENKEY 6	Tenkey 6	B3
25	TENKEY 7	Tenkey 7	C4
26	TENKEY 8	Tenkey 8	C#4
27	TENKEY 9	Tenkey 9	D4
28	TENKEY 0	Tenkey 0	D#4
29	TENKEY -	Tenkey -	E4
30	PORTABLE GRAND	GP	F4
31	ULTRA-WIDE STEREO	WIDE	F#4
32	SOUND EFFECT	SoundEff	G4
33	FUNCTION	Function	G#4

BACKUP

Backup Parameters

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

To erase the backup data and return to the default settings (factory shipping state), see "INITIALIZATION".

Backup parameters

- User songs
- Function settings:
  Tuning, Your Tempo, Master EQ type, Panel Sustain, Auto Power Off, Battery Type

Caution:

Note that the following situations cannot back up or maintain the settings of the Backup parameters.

- When the AC adaptor is unplugged with the power on (even if batteries are installed):
- When the power is turned off due to accidents such as electric power failure:
- When the Alkaline battery/Manganese battery runs down (without connecting the AC adaptor):

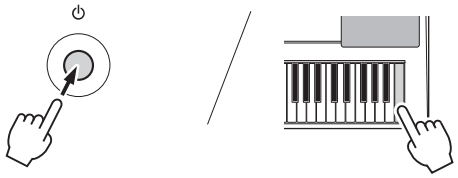
INITIALIZATION

This returns the settings in the PSR-E253 to the default settings (factory shipping state).

Backup Clear

This operation initializes the backup parameters (see "BACKUP") .

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



PSR-E253/YPT-255

PARTS LIST

■ CONTENTS

OVERALL ASSEMBLY 2
UPPER CASE C ASSEMBLY 4
UPPER CASE L/R ASSEMBLY 6
LOWER CASE ASSEMBLY 7
KEYBOARD ASSEMBLY 9
ELECTORICAL PARTS 11

* DESTINATION ABBREVIATIONS

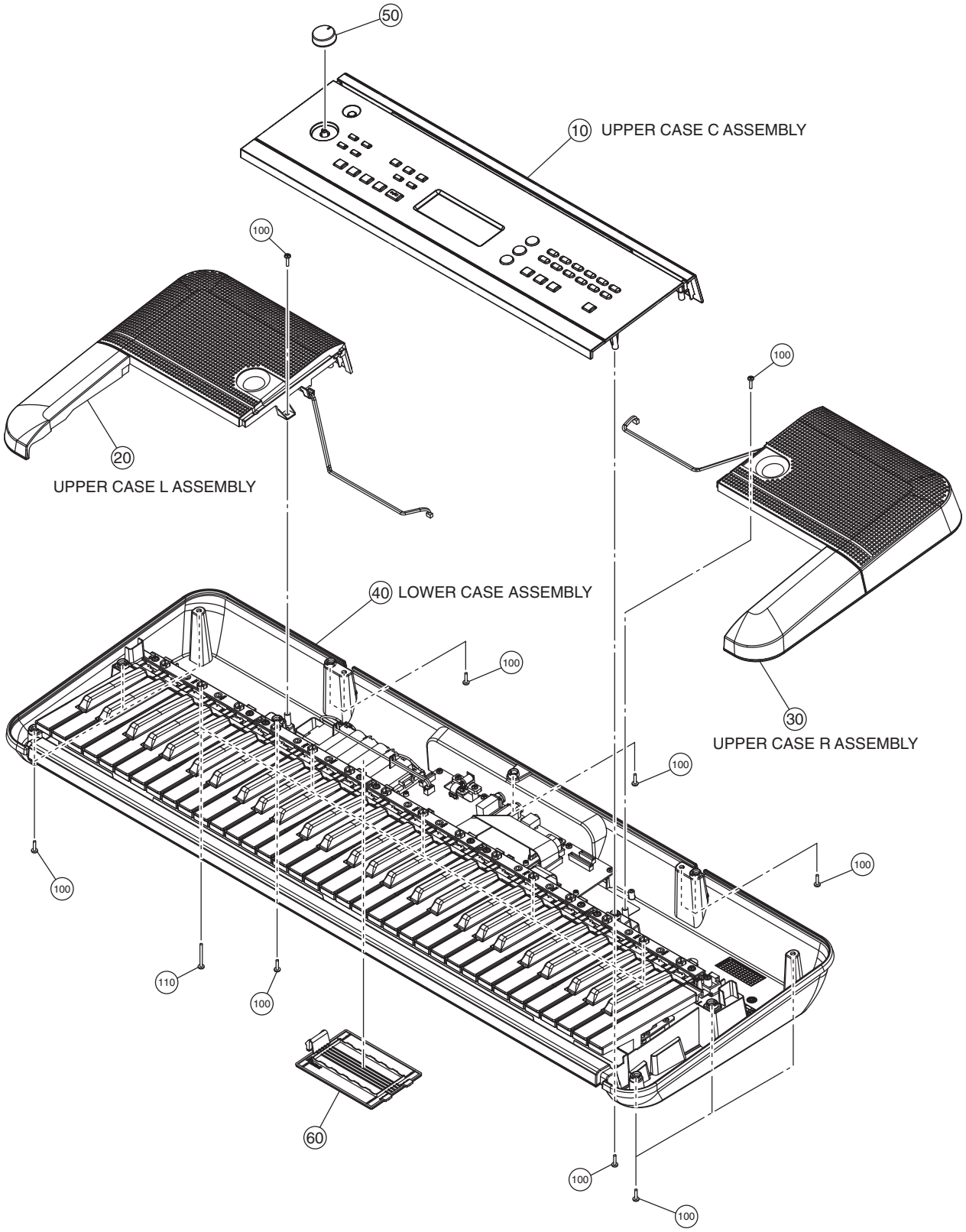
A:	Australian model	O:	Chinese model
B:	British model	Q:	South-east Asia model
C:	Canadian model	T:	Taiwan model
D:	German model	U:	U.S.A. model
E:	European model	V:	General export model (110V)
F:	French model	W:	General export model (220V)
H:	North European model	N,X:	General export model
I:	Indonesian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

■ 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.

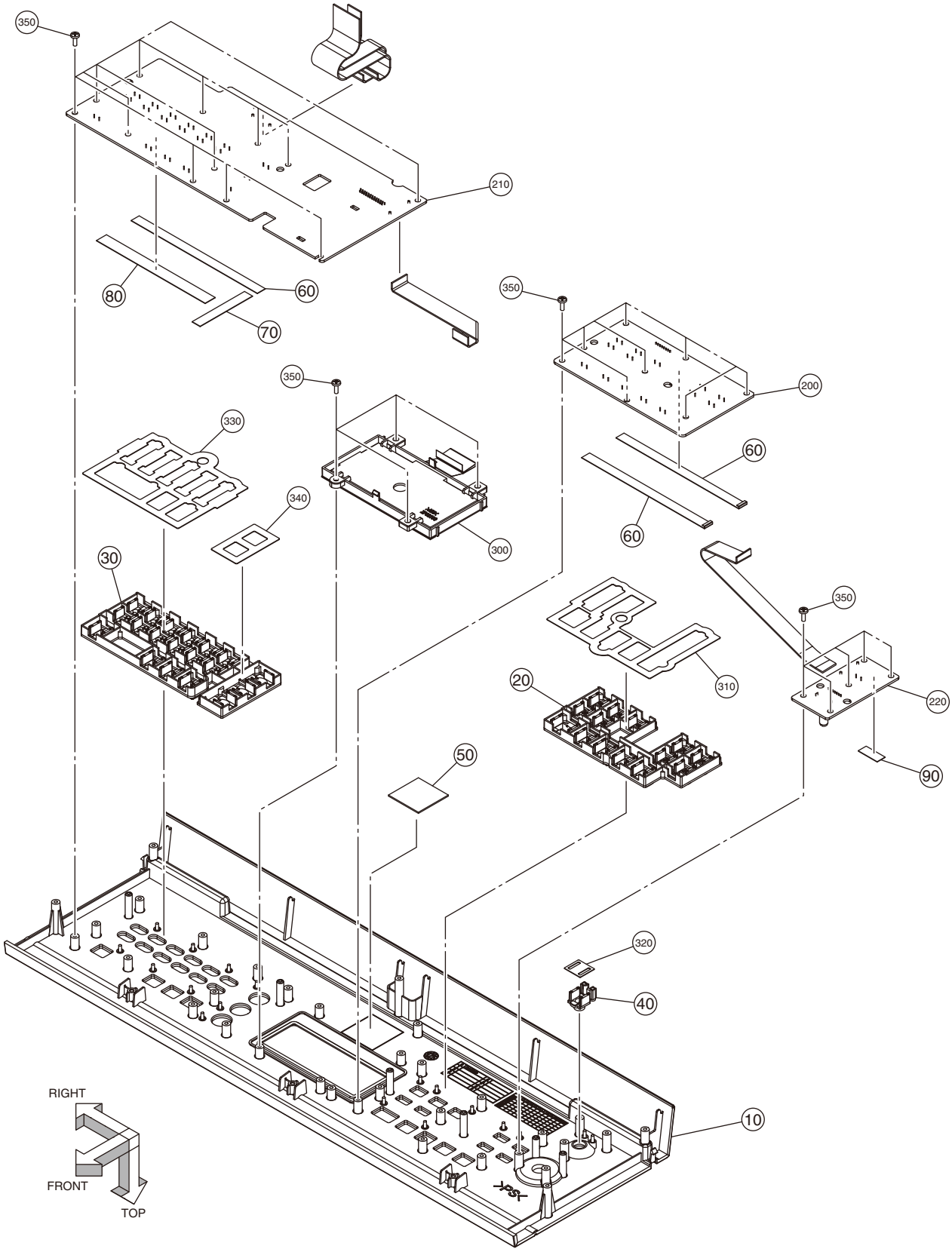
■ OVERALL ASSEMBLY



	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS		QTY
			OVERALL ASSEMBLY		総組立	PSR-E253/YPT-255		
		--	OVERALL ASSEMBLY	PK PSR-E253 E	総組立	PSR-E253 U,C,E,B,K,Y,A,P	(ZN44820)	
		--	OVERALL ASSEMBLY	PK PSR-E253 J	総組立	PSR-E253 J	(ZN44830)	
		--	OVERALL ASSEMBLY	PK PSR-E253 CHN	総組立	PSR-E253 O	(ZN44840)	
		--	OVERALL ASSEMBLY	PK YPT-255 E	総組立	YPT-255 U,C,E,B,K,Y,A,P,O	(ZN44850)	
	10	--	UPPER CASE C ASSEMBLY	PK PSR-E253 E	上ケースC Ass'y	PSR-E253 U,C,E,B,K,Y,A,P	(ZN45140)	
	10	--	UPPER CASE C ASSEMBLY	PK PSR-E253 J	上ケースC Ass'y	PSR-E253 J	(ZN45150)	
	10	--	UPPER CASE C ASSEMBLY	PK PSR-E253 CHN	上ケースC Ass'y	PSR-E253 O	(ZN45160)	
	10	--	UPPER CASE C ASSEMBLY	PK YPT-255	上ケースC Ass'y	YPT-255	(ZN45170)	
	20	--	UPPER CASE L ASSEMBLY		上ケースL Ass'y		(ZN45190)	
	30	--	UPPER CASE R ASSEMBLY		上ケースR Ass'y		(ZN45200)	
	40	--	LOWER CASE ASSEMBLY		下ケース Ass'y		(ZN45210)	
*	50	ZP0317I0	VOLUME KNOB		ボリュームツマミ	MASTER VOLUME		
*	60	ZP435500	BATTERY COVER ASSEMBLY		電池蓋 Ass'y			
	100	WE98740R	BIND HEAD TAPPING SCREW-B	3.0X12 MFZN2W3	Bタイト+BIND			15
	110	WF491001	BIND HEAD TAPPING SCREW-B	3.0X30 MFZN2W3	Bタイト+BIND			5
			ACCESSORIES		付属品	PSR-E253/YPT-255		
*		ZP509400	MUSIC REST WITH BAG	BLACK	譜面板袋入り			
⚠		V8028600	AC ADAPTER	PA-3C J	ACアダプター	J		
⚠		WK014600	AC ADAPTER	PA-130 U	ACアダプター	U,C		
⚠*		ZP655800	AC ADAPTER SET	PA-130B E	ACアダプター	E		
⚠*		ZP655900	AC ADAPTER SET	PA-130B B	ACアダプター	B		
⚠*		ZP656000	AC ADAPTER SET	PA-130B K	ACアダプター	K		
⚠*		ZP656100	AC ADAPTER SET	PA-130B BRA	ACアダプター	P		
⚠*		ZP656200	AC ADAPTER SET	PA-130B CHN	ACアダプター	O		
⚠*		ZP656400	AC ADAPTER SET	PA-130B A	ACアダプター	A		
*		ZN450300	CHINESE SHEET SET	PK YPT-255 CHN	中文シート袋入り	YPT-255 O		

*: New Parts(新規部品)

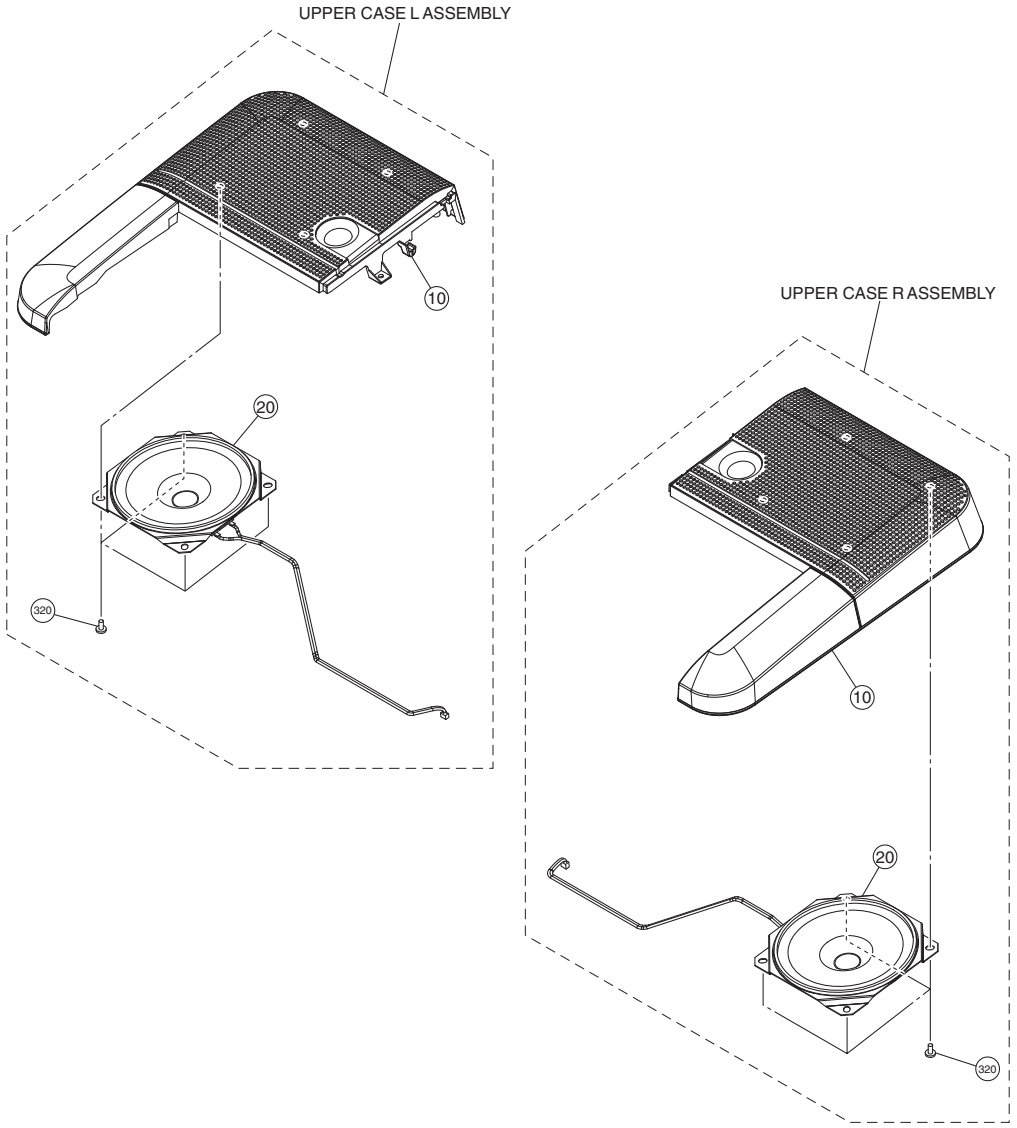
■ UPPER CASE C ASSEMBLY



	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS		QTY
			UPPER CASE C ASSEMBLY		上ケースC Ass'y	PSR-E253/YPT-255		
		--	UPPER CASE C ASSEMBLY	PK PSR-E253 E	上ケースC Ass'y	PSR-E253 U,C,E,B,K,Y,A,P	(ZN45140)	
		--	UPPER CASE C ASSEMBLY	PK PSR-E253 J	上ケースC Ass'y	PSR-E253 J	(ZN45150)	
		--	UPPER CASE C ASSEMBLY	PK PSR-E253 CHN	上ケースC Ass'y	PSR-E253 O	(ZN45160)	
		--	UPPER CASE C ASSEMBLY	PK YPT-255	上ケースC Ass'y	YPT-255	(ZN45170)	
*	10	**ZN4522I0**	UPPER CASE C FINISHED	PK PSR-E253 E	上ケースC加工品	PSR-E253 U,C,E,B,K,Y,A,P		
*	10	**ZN4523I0**	UPPER CASE C FINISHED	PK PSR-E253 J	上ケースC加工品	PSR-E253 J		
*	10	**ZN4524I0**	UPPER CASE C FINISHED	PK PSR-E253 CHN	上ケースC加工品	PSR-E253 O		
*	10	**ZN4525I0**	UPPER CASE C FINISHED	PK YPT-255	上ケースC加工品	YPT-255		
	20	**ZN4526I0**	PN SWITCH L		パネルスイッチL	DEMO,METRONOME,TEMPO/TAP, PHRASE REC,		
*						1 LISTEN,2 TIMING,3 WAITING, PART L,PART R, A-B REPEAT,REW,FF,PAUSE, START/STOP		
	30	**ZN4527I0**	PN SWITCH R		パネルスイッチR	SONG,VOICE,STYLE,0-9,+,-, PORTABLE GRAND,		
*						ULTRA-WIDE STEREO, SOUND EFFECT, FUNCTION		
*	40	**ZP4164I0**	PW SWITCH		パワースイッチ	Standby/On		
*	50	**ZP429200**	CUSHION PE	30X30X1.0	クッション(PE)	STICK ON UPPER CASE C		
	60	--	NONWOVEN CLOTH	115X8X0.35	不織布	STICK ON PNR,PNL PCB	(ZN45290)	3
	70	--	NONWOVEN CLOTH	62X8X0.35	不織布	STICK ON PNR PCB	(ZN45300)	
	80	--	NONWOVEN CLOTH	109X10X0.35	不織布	STICK ON PNR PCB	(ZN45310)	
	90	--	NONWOVEN CLOTH	19X8X0.35	不織布	STICK ON MVR PCB	(ZP74500)	
*	200	**ZR302100**	CIRCUIT BOARD	PNL SP	PCB PNL SP			
*	210	**ZM666400**	CIRCUIT BOARD	PNR	PCB PNR			
*	220	**ZR302200**	CIRCUIT BOARD	MVR SP	PCB MVR SP			
*	300	**ZP030900**	LCD ASSEMBLY	PSR-E253/YPT-255	液晶Ass'y			
	310	--	NONWOVEN CLOTH L	0.35	不織布L		(ZN45320)	
	320	--	NONWOVEN CLOTH PW	0.35	不織布PW		(ZN45330)	
	330	--	NONWOVEN CLOTH R	0.35	不織布R		(ZN45340)	
	340	--	NONWOVEN CLOTH R2	0.35	不織布R2		(ZN45350)	
	350	**WE774300**	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	Bタイト+BIND			29

*: New Parts(新規部品)

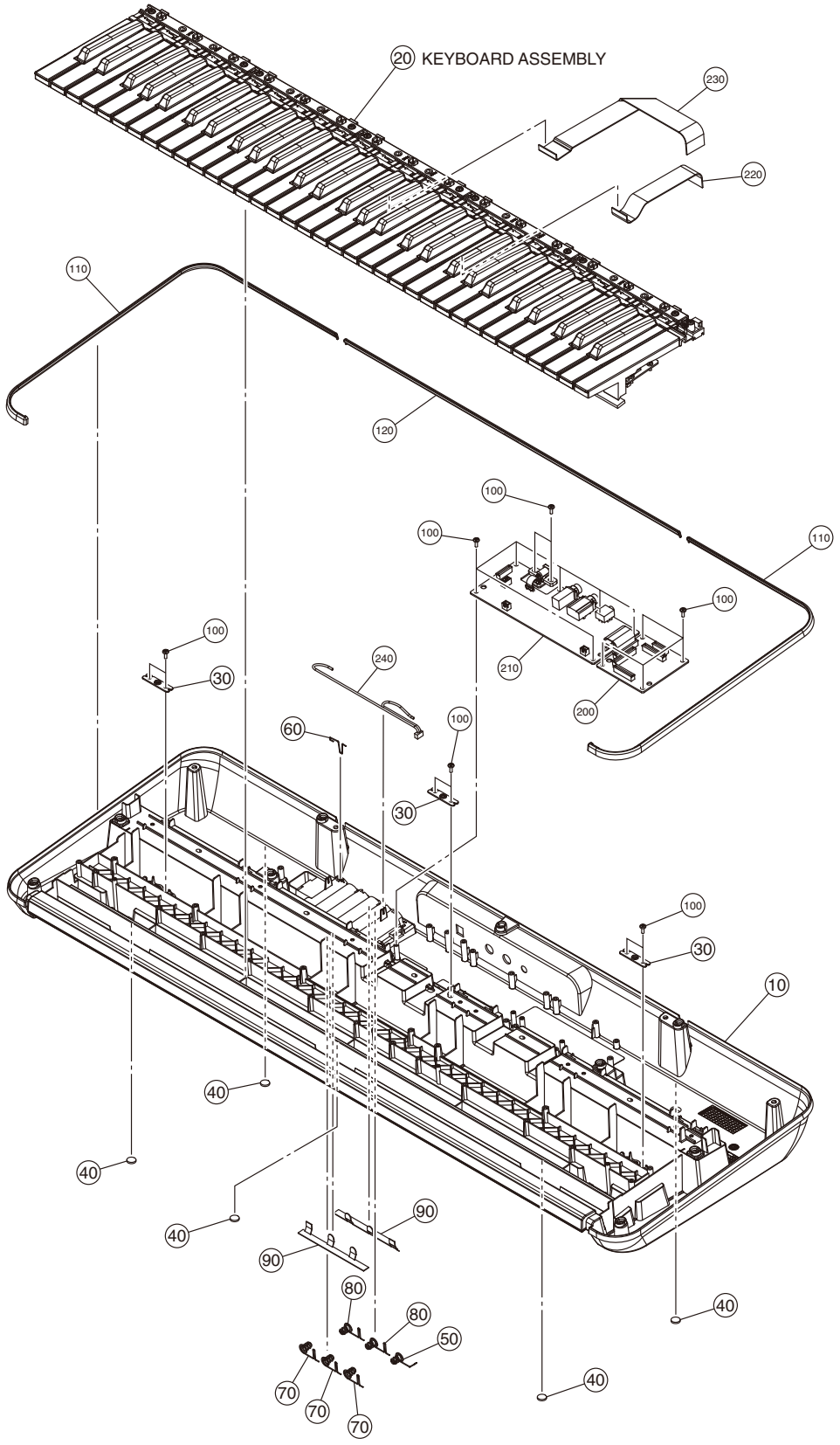
■ UPPER CASE L/R ASSEMBLY



REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY
	--	UPPER CASE L ASSEMBLY	PSR-E253/YPT255	上ケースL Ass'y	(ZN45190)	
* 10	**ZN4541I0**	UPPER CASE L MOLDING		上ケースL成形品		
* 20	**YG816A00**	LOUD SPEAKER	12.0CM 4OHM 3W	スピーカ		
320	**WE97460R**	BIND HEAD TAPPING SCREW-B	4.0X8 MFZN2W3	Bタイト+BIND		4
	--	UPPER CASE R ASSEMBLY	PSR-E253/YPT255	上ケースR Ass'y	(ZN45200)	
* 10	**ZN4542I0**	UPPER CASE R MOLDING		上ケースR成形品		
* 20	**YG816A00**	LOUD SPEAKER	12.0CM 4OHM 3W	スピーカ		
320	**WE97460R**	BIND HEAD TAPPING SCREW-B	4.0X8 MFZN2W3	Bタイト+BIND		4

*: New Parts(新規部品)

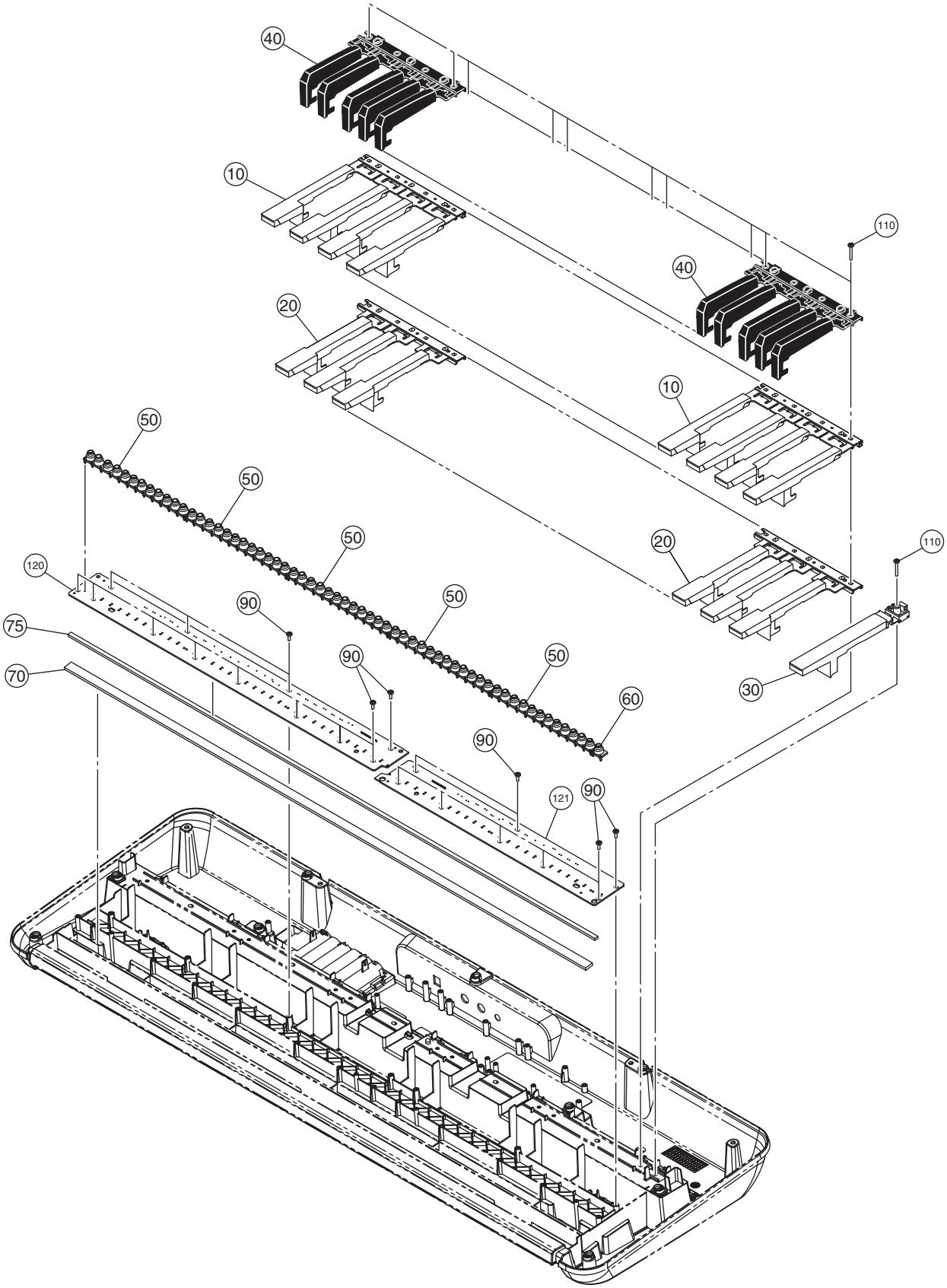
■ LOWER CASE ASSEMBLY



	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY
		--	LOWER CASE ASSEMBLY	PSR-E253/YPT255	下ケースAss'y	(ZN45210)	
*	10	ZN454300	LOWER CASE MOLDING		下ケース成形品		
	20	--	16NS-C61 KEYBOARD	16NS-C61-1M	16NS-C61鍵盤	(ZP54770)	
	30	--	STAND ANGLE		スタンド金具	(ZP42530)	3
	40	WW693500	RUBBER FOOT		ゴム脚		5
	50	WD87920R	SPRING TERMINAL A		接点バネA		
	60	WD87930R	SPRING TERMINAL B		接点バネB		
	70	WD87940R	SPRING TERMINAL C		接点バネC		3
	80	WD87970R	SPRING TERMINAL D		接点バネD		2
*	90	ZP656600	NONWOVEN CLOTH	99X20X0.35T	不織布	STICK ON BATTERY BOX	2
	100	WE774300	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	Bタイト+BIND		18
*	110	ZN454400	CUSHION PE	535X15X1.0	クッション(PE)	STICK ON LOWER CASE	2
*	120	ZN454500	CUSHION PE	500X15X1.0	クッション(PE)	STICK ON LOWER CASE	
*	200	ZM666300	CIRCUIT BOARD	DM	PCB DM		
*	210	ZR302000	CIRCUIT BOARD	AMJK SP	PCB AMJK SP		
	220	--	WIRING ASSEMBLY	MKL 11P L=160	MKL束線	(ZQ63150)	
	230	--	WIRING ASSEMBLY	MKH 13P L=260	MKH束線	(ZQ63160)	
	240	--	CONNECTOR ASSEMBLY	BATT XH3P L=185	BATT束線	(ZQ79530)	

*: New Parts(新規部品)

KEYBOARD ASSEMBLY



REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY
		KEYBOARD ASSEMBLY		鍵盤Ass'y		
	--	16NS-C61 KEYBOARD	16NS-C61-1M	16NS−C61鍵盤	(ZP54770)	
10	ZE369800	WHITE KEY	16NS CEGB	白鍵 C E G B		5
10	--	WHITE KEY	16NS CEGB	白鍵 C E G B	(ZE3698I)	
20	ZE369900	WHITE KEY	16NS DFA	白鍵 D F A		5
20	--	WHITE KEY	16NS DFA	白鍵 D F A	(ZE3699I)	
30	V476030R	WHITE KEY	16N C'	白鍵 C '	C6	
30	--	WHITE KEY	16N C'	白鍵 C '	(V47603I)	
40	WZ168300	BLACK KEY	16NS #	黒鍵		5
40	--	BLACK KEY	16NS #	黒鍵	(WZ1683I)	
50	VZ271801	RUBBER CONTACT	16N 1M OCT	接点ゴム		5
50	WE152500	RUBBER CONTACT	16N 1M OCT	接点ゴム		
60	VZ271900	RUBBER CONTACT	16N C' 1M	接点ゴム	C6	
* 60	ZQ194600	RUBBER CONTACT	16N C' 1M	接点ゴム		
70	VZ303000	FELT L	827x11 WH	フェルト L		
75	VZ302901	FELT U	836x5 WH	フェルト U		
90	WE774300	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	Bタイト+BIND		20
110	WF49200R	BIND HEAD TAPPING SCREW-P	3.0X20 MFZN2W3	Pタイト+BIND		11
* 120	ZP489100	CIRCUIT BOARD	16NS-C61-1M MKL	PCB MKL	C1-B3 (YG781C0)	
* 121	ZP488900	CIRCUIT BOARD	16NS-C61-1M MKH	PCB MKH	C4-C6 (YG780C0)	

*: 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-E253/YPT-255	
*		**ZM666300**	CIRCUIT BOARD	DM	PCBDM	(YG458C0)	
*		**ZR302000**	CIRCUIT BOARD	AMJK SP	PCB AMJK SP	(ZN24300)(YG460C0)	
*		**ZR302100**	CIRCUIT BOARD	PNL SP	PCB PNL SP	(ZN24300)(YG460C0)	
*		**ZR302200**	CIRCUIT BOARD	MVR SP	PCB MVR SP	(ZN24300)(YG460C0)	
*		**ZM666400**	CIRCUIT BOARD	PNR	PCB PNR	(YG459C0)	
*		**ZP489100**	CIRCUIT BOARD	16NS-C61-1M MKL	PCB MKL	C1-B3 (YG781C0)	
*		**ZP488900**	CIRCUIT BOARD	16NS-C61-1M MKH	PCB MKH	C4-C6 (YG780C0)	
*		**ZM666300**	CIRCUIT BOARD	DM	PCBDM	(YG458C0)	
	IC501	**X8260A02**	IC	BA50BCOFP-E2 +5V	電源IC	REGULATOR +5V	
	IC502	**YE787A00**	IC	BU33TD3WG-TR 3.3V	電源IC	REGULATOR +3.3V	
*		**ZR302000**	CIRCUIT BOARD	AMJK SP	PCB AMJK SP	(ZN24300)(YG460C0)	
*		**ZR302100**	CIRCUIT BOARD	PNL SP	PCB PNL SP	(ZN24300)(YG460C0)	
*		**ZR302200**	CIRCUIT BOARD	MVR SP	PCB MVR SP	(ZN24300)(YG460C0)	
	IC151	**YF011A00**	IC	TA8227APG-D12-H-T	アンプIC	POWER AMP 2.5W 2CH	
⚠	JK101	**WZ704401**	CONNECTOR	DC-502-AG-PBT-2.0-	電源コネクタ	DC IN 12V	
	JK151	**VV943300**	CONNECTOR	JACK HTJ-064-04A	ホーンコネクタ	PHONES/OUTPUT	
	JK152	**ZA590000**	CONNECTOR	JACK MINI STEREO	ホーンコネクタ	AUX IN	
	JK153	**WE24520R**	CONNECTOR	JY-6314-01-020	ホーンコネクタ（黒）	SUSTAIN	
	VR1	**WC70980R**	ROTARY VARIABLE RESISTOR	A 5.0K XV014111YGP	二連ロータリーVR	MASTER VOLUME	
⚠	FZ1	**WN081300**	FUSE	SEMKO/UL/PSE 2.00A	ヒューズ250V		
⚠*	D101	**ZQ176200**	DIODE	RL202	ダイオード		
*	D102	**ZQ176200**	DIODE	RL202	ダイオード		
⚠		**V8028600**	AC ADAPTER	PA-3C J	ACアダプター	J	
⚠		**WK014600**	AC ADAPTER	PA-130 U	ACアダプター	U,C	
⚠*		**ZP655800**	AC ADAPTER SET	PA-130B E	ACアダプター	E	
⚠*		**ZP655900**	AC ADAPTER SET	PA-130B B	ACアダプター	B	
⚠*		**ZP656000**	AC ADAPTER SET	PA-130B K	ACアダプター	K	
⚠*		**ZP656100**	AC ADAPTER SET	PA-130B BRA	ACアダプター	P	
⚠*		**ZP656200**	AC ADAPTER SET	PA-130B CHN	ACアダプター	O	
⚠*		**ZP656400**	AC ADAPTER SET	PA-130B A	ACアダプター	A	
*		**ZP030900**	LCD ASSEMBLY	PSR-E253/YPT-255	液晶Ass'y		
*		**YG816A00**	LOUD SPEAKER	12.0CM 4OHM 3W	スピーカ		2

*：New Parts(新規部品)

PSR-E253/YPT-255 OVERALL CIRCUIT DIAGRAM (DM)

< Page 1 >

DM

REGULATOR +5V

REGULATOR +3.3V

IC501 BA50BC0FP

IC502 BU33TD3WG

to AMJK-SP-CN103 <Page 2 F8>

52147-1410 CN501

Fc=33.6KHz G=-3.52dB

Lch

Rch

DACL-

DACL+

DACR-

DACR+

IC202 BA4580RF-E2

IC201 BA4580RF-E2

IC001 SWLL

16.9344MHz±50ppm
Internal Clock : 33.8688MHz
Master Clock : 67.7376MHz

Detect voltage 4.2V
reset time
min.18.16ms
typ.44.85ms
max.108.54ms

IC111 R3112N421A-TR-F

MIDI-IN

MIDI-OUT

TP002

TP001

IC101

Mount VY65810

to PNR-CN002 <Page 2 I3,4>

52147-0710 CN302

to MKL-CN1 <Page 3 D6,7>

CN401 52147-1310

to MKH-CN1 <Page 3 D3>

CN402 52147-1110

to PNR-CN001 <Page 2 I4>

52147-1310 CN301

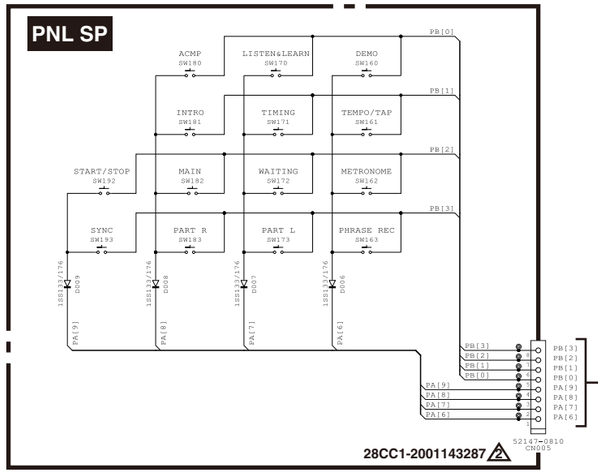
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PSR-E253/YPT-255

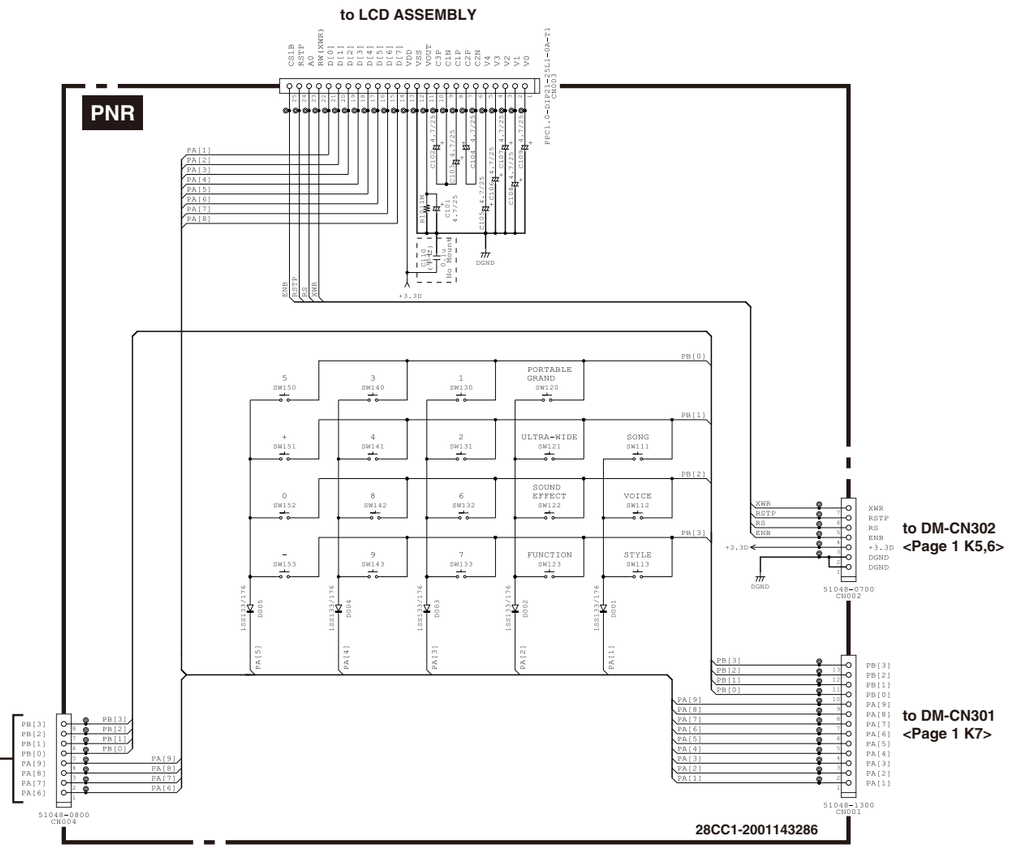
PSR-E253/YPT-255 OVERALL CIRCUIT DIAGRAM (AMJK SP, MVR SP, PNL SP, PNR)

< Page 2 >

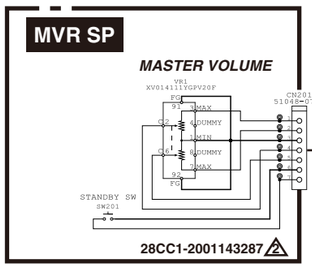
PNL SP



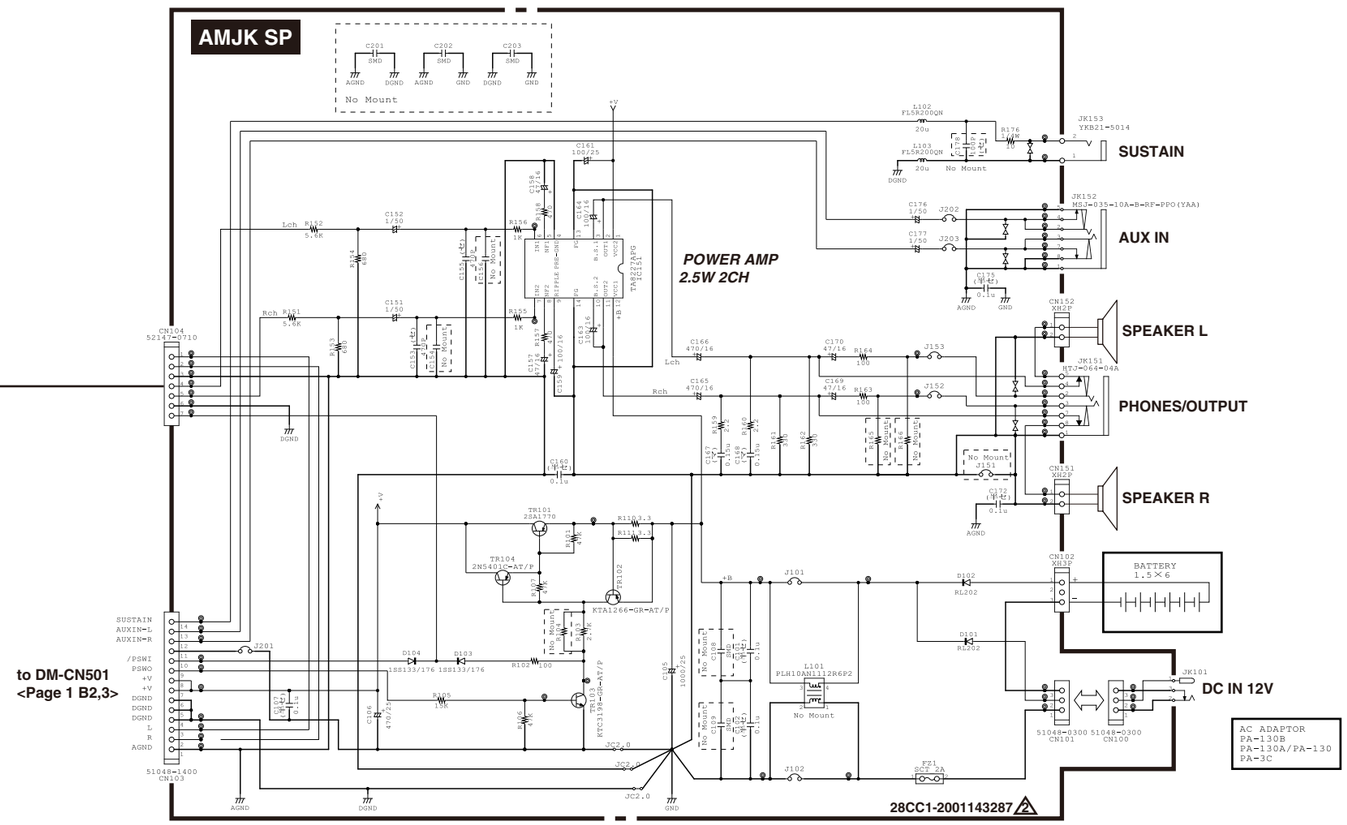
PNR



MVR SP



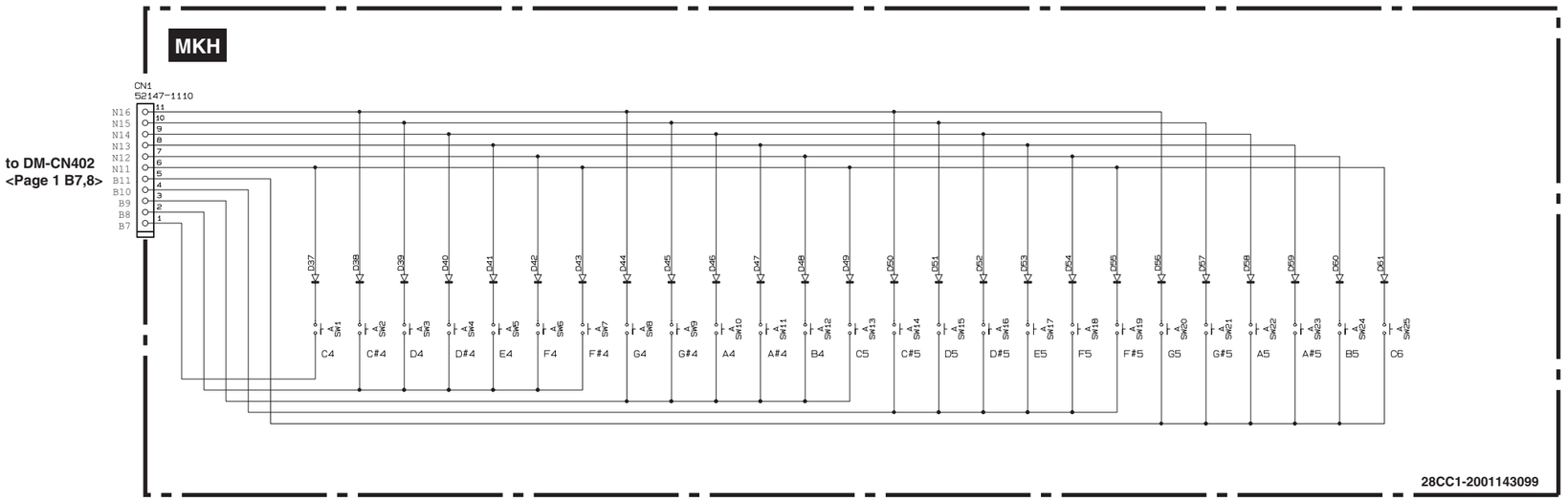
AMJK SP

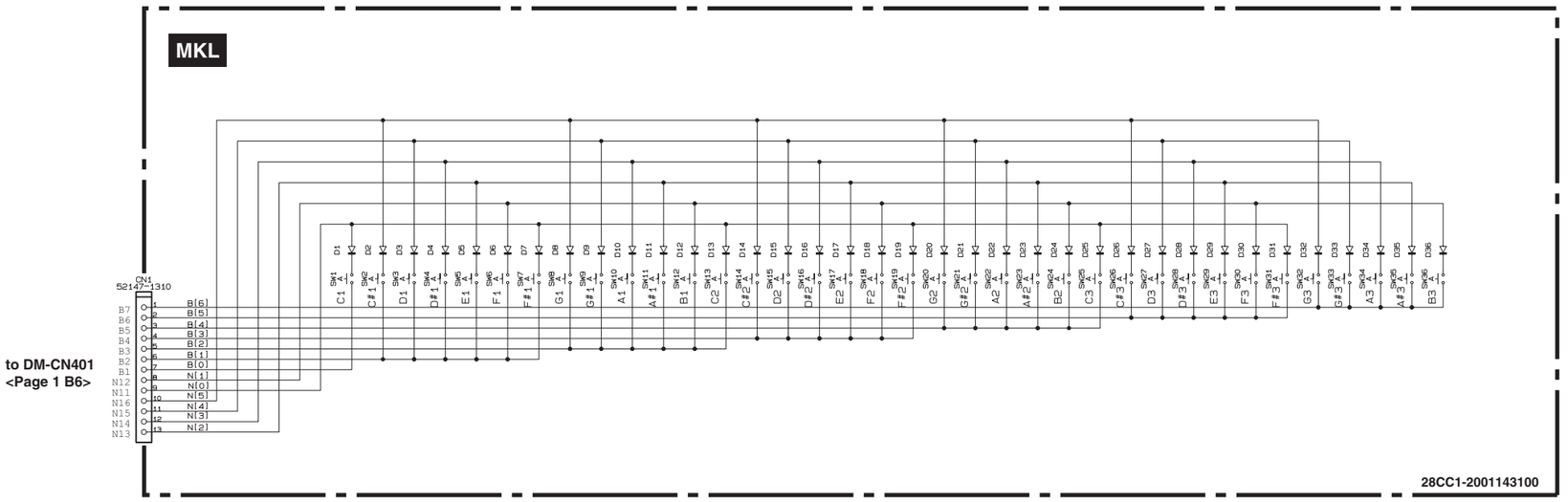


PSR-E253/YPT-255

PSR-E253/YPT-255 OVERALL CIRCUIT DIAGRAM (MKH, MKL)

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PSR-E253/YPT-255