

# SERVICE NOTES

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GO-61K/GO-61KL

### **Revise Information**

Jun. 19, 2017 p. 15 Jan. 5, 2018 p. 15 Changed the specification Changed the procedure

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# **Cautionary Notes**

Before beginning the procedure, please read through this document. The matters described may differ according to the model.

# **Back Up User Data!**

User data may be lost during the course of the procedure. Refer to **Data Backup and Restore Operations** (p. 14) in the Service Notes and save the data. After completing the procedure, restore the backed-up data to the product.

# **Part Replacement**

When replacing components near the power-supply circuit or a heatgenerating circuit (such as a circuit provided with a heat sink or including a cement resistor), carry out the procedure according to the instructions with respect to the part number, direction, and attachment position (mounting so as to leave an air gap between the component and the circuit board, etc.).

# Parts List

A component whose part code is \*\*\*\*\*\*\* will not be supplied as a service part because one of the following reasons applies.

- Because it is supplied as an assembled part (under a different part code).
- Because a number of circuit boards are grouped together and supplied as a single circuit board (under a different part code).
- · Because supply is prohibited due to copyright restrictions.
- Because reissuance is restricted.
- Because the part is made to order (at current market price).
- Because it is carried in electronic data on the Roland web site.
- Because it is a package or an accessory irrelevant to the function maintenance of the main body.
- Because it can be replaced with an article on the market. (battery or etc.)

# **Roland Japan Warranty**

Please send the problem report with followings when the defect occurred within one year from production and within one month from the first customer's purchase.

- Model name:
- Serial number
- Version:
- Purchase date by the first customer: yyyy/mm/dd
- Symptom:
- Frequency: always, sometimes or seldom
- Confirmed the symptom at your service dept: Yes/No

Please send the problem report to rjasc@roland.co.jp.

# **Specifications**

### **Roland GO:KEYS: Music Creation Keyboard**

### Keyboard

#### Number of Keys

61 keys (Ivory Feel and Box-shape Keys with velocity)

#### **Touch Sensitivity**

Key Touch: 3 types

### **Sound Generator**

### **Maximum Polyphony**

128 voices

#### Parts

8 parts

### **MIDI Format**

Conforms to GM2

### Number of Tones

Over 500 tones

\* GM2 compatible sounds are included.

### Effects

Multi-Effects / Chorus / Reverb

\* Only Reverb level is adjustable.

### **Master Tuning**

415.3 H-466.2 Hz (adjustable in increments of 0.1 Hz)

#### Transpose

-5-+6 (in semitones)

#### **Octave Shift**

-3-+3

### **Sampling Frequency**

44.1 kHz

### Loop Mix

#### Loop Mix Set

12 sets

### Number of Patterns

672 patterns (12 sets x 56 patterns)

**Chord** Interactive Chord function

### Tempo

Quarter note = 5-300

### Performance Pad

#### Number of Pads

10 (5 x 2)

### Function

Bender: Pitch Bend / Modulation Effect: Roll / Filter

### Recorder

### Save Format

Standard MIDI Files (Format 0)

### Song Storage

99 songs (within the limits of Note Storage)

### Note Storage

Approx. 30,000 notes

### Tempo

Quarter note = 5–300

### Resolution

96 ticks per quarter note

### Bluetooth

\* This function is not available for GO-61KL.

### **Bluetooth Ver 4.2**

Profile Support: A2DP(Audio), GATT(MIDI over Bluetooth Low Energy) Codec: SBC (Support to the content protection of the SCMS@5 T method)

### Other

### Display

Character LCD (with backlit)

### **Amplifier Power Output**

2.5 W x 2

Speakers

12 x 6 cm (4-3/4 x 2-3/8 inches) x 2

### Connectors

PHONES / OUTPUT jack: Stereo miniature phone type AUX IN jack: Stereo miniature phone type PEDAL jack: 1/4-inch phone type USB COMPUTER port: USB Micro-B type (MIDI) DC IN jack

### Power Supply

AC adaptor or Alkaline battery (AA, LR6) / Rechargeable Ni-MH battery (AA, HR6) x 6

\* Carbon-zinc batteries cannot be used.

### **Current Draw**

1,000 mA

### **Battery Life for Continuous Use**

Rechargeable Ni-MH batteries (AA, HR6): Approximately 6 hours (When using batteries having a capacity of 1,900 mAh.) Alkaline batteries (AA, LR6): Approximately 4 hours

 $^{*}$  This figure will vary depending on the actual conditions of use.

### Dimensions

877 (W) x 271 (D) x 82 (H) mm 34-9/16 (W) x 10-11/16 (D) x 3-1/4 (H) inches

### Weight (excluding AC adaptor)

3.9 kg 8 lbs 10 oz

#### Accessories

Owner's Manual (#5100055363) Leaflet "USING THE UNIT SAFELY" (#\*\*\*\*\*\*) AC adaptor (#5100047387, #5100047386, #5100047388, #5100047389, #5100047391, #5100047390, #5100047392)

### **Options (sold separately)**

Keyboard stand: KS-12 Pedal switch: DP series

- \* AC adaptors for 100V, 117V U and 230V EU supplied as repair parts are different from the AC adaptors packed with the products when shipping.
- \* Printed matters will not be supplied after the end of the production. Then, download the electronic file from the Roland web site.
- \* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

# **Exploded** View



# Exploded View Parts List

No.	Part Code	Part Name	Description	Q'ty
2	5100054421	PANEL SHEET LEFT		1
3	5100054422	PANEL SHEET CENTER		1
4	5100054423	PANEL SHEET RIGHT		1
5	5100054324	TOP CASE		1
6	5100055423	ABSORPTIVE FELT	850X7XT0.5MM BLK	1
7	5100055424	ABSORPTIVE FELT	260X7XT0.5MM BLK	2
8	5100055362	SPEAKER NET		2
9	5100054442	SPEAKER	BE-DQ813F-02	2
10	5100055422	SPEAKER CUSHION FELT	132X81XT1	2
11	5100054427	LCD CUSHION SHORT		2
12	5100056538	LCD CUSHION LONG		2
13	5100054839	RUBBER SWITCH	POWER	1
	5100053677	PANEL SHEET ASSY		1
	* This unit include	s the following parts.		
14	*****	PANEL-L BOARD		1
15	*****	PANEL-R BOARD		1
16	*****	PWR-SW BOARD		1
10				-
17	5100053675	MAIN BOARD ASSY		1
18	5100054926	ICD	OSC1202-20-BTDSWS-R STN NEC 4	1
19	5100055420	SPACER CUSHION SPONCE	71X24X10	1
20	5100055420	SPACER CUSHION SPONGE	30X20X10	1
20	5100054432	N-KEV C-DASH	MSK-3P	1
21	5100054430	N-KEY DEA	MSK-3P	5
22	5100054428	N-KEY CECB	MSK-3P	5
23	5100054434	SHARP-KEV 5P	MSK-3P	5
25	5100054440	RUBBER SWITCH	13P	5
25	5100053681	PWB ASSV	MSK-3P 36KEVS	1
20	5100053682	PWB ASSV	MSK-3P 25KEVS	1
27	5100053082	VEV STODED	M3K-51 25KE15	1
20	5100054430	KEY LEVEL CUSHION A		1
29	5100054437	VEV STOP CUSHION R		1
21	5100054459	KEY STOP CUSHION D		1
22	5100050454	KET STOP CUSHION C		1
22	5100054458	DCP CUSHION		1
24	5100050555	PATTEDV TEDMINAL	DM A (7E4 080E2 02 00)	1
25	5100004225	DATTERY TERMINAL	PM R(754-08052-05-00)	1
26	5100004226	DATTERT TERMINAL RATTERV TERMINAL	$P_{\rm M} = B(754 - 06052 - 04 - 00)$	4
27	5100004225	DATTERY TERMINAL	FLU5(754-08052-02-00)	1
20	5100004224	PATTERY COVER	MINUS(754-08052-01-00)	1
20	5100054526			1
39	5100054526	BUIDDED FOOT	CLEO1D BLK	1
40	12339137	KUDDEK FOUI	5J-5012 DLK	4
41	5100055561	RET FELT DLACK		1
42	5100056545	PANEL CUSHION		4
44	5100056554	DATTERY COVER CUSHION	(7(1,00050,01,00)	4
45	5100006034		(/01-08032-01-00) #500 M/20 M 4 20 M 4 20 D	3
40	40122334	DOUDLE-FACED TAPE	#300 W 3WW 20W 130P	-
47	5100031395			-
48	40122556	DOUBLE FACED ADHESIVE TAPE	#373 W JUNINI JUNI	-
49	04452945		IND21-0344IN	2
50	13449252	6.5IVINI JACK	YKB21-5006 (STEREO W/SW)	1
51	13449717	ADAPTOK JACK	HEC2392-01-150	1
52	5100048112	USB CONNECTOR	105017-0001	1

# **Disassembly Procedure**

- 1. Remove screws **a** (x 15) in View 1 at Plain View (1) (p. 8).
- **2.** Slowly tilt the Top Case toward the rear and disconnect the wirings (x 3) and the flat cable (x 1).

# **Removing the Panel Board**

- **1.** Disconnect the wiring (x 1) connecting to the Panel-R Board.
- **2.** While pressing downward the hinges at two locations shown in the figure by your fingers, slide the Panel-R Board in the direction of the arrow and remove it.



**3.** Remove the Panel-L Board in the same way.

# **Important Notes on Assembly**

### **Attaching Keyboard**

Apply the double-sided adhesive tapes (#40122534) to the contact circuit 1. board (#5100053681, #5100053682).



For securing the rubber switches



Take care not to cover the air holes.

2. Apply the filter (#5100031395) to the contact circuit board.



Cut the four rubber switches (#5100054440) at the location shown in the 3. figure.



The circuit board for 25 keys (#5100053682)

- 4. Secure the rubber switches.
- 5. Align the white keys (#5100054430, #5100054428) so that the gaps between key and key are evenly and tighten the screws.



- Put the white keys on the black keys and make a unit as one octave. 6.
- 7. Tighten the screws from the octave unit of the center in sequence. Tighten the screws so that the gaps between each key within one octave and the gaps between each octave unit are evenly by visual checking.



# Plain View (1)



### View 1

No.	Part Code	Part Name	Description	Q'ty
а	40012345	SCREW 4X10	BINDING TAPTITE B BZC	15
View	2			

No.	Part Code	Part Name	Description	Q'ty
48	40122556	DOUBLE FACED ADHESIVE TAPE	#575 W30MM 30M	-
53	40122812	ACETATE TAPE	NITTO #5 BLACK W15MM 30M	-
с	5100038406	SCREW 2.6X6	BINDING TAPTITE P BZC	4
d	5100023206	SCREW 2.6X8(JC7000220R0)	BINDING TAPTITE P ZC	2
e	40011123	SCREW 4X8	BINDING TAPTITE B FE BZC	8

# Plain View (2)



### View 3

No.	Part Code	Part Name	Description	Q'ty
48	40122556	DOUBLE FACED ADHESIVE TAPE	#575 W30MM 30M	-
b	40011323	SCREW 3X10	BINDING TAPTITE P BZC	6
с	5100038406	SCREW 2.6X6	BINDING TAPTITE P BZC	10
f	40129812	SCREW 3X18	BINDING TAPTITE P BZC	21
View	4			

No.	Part Code	Part Name	Description	Q'ty
b	40011323	SCREW 3X10	BINDING TAPTITE P BZC	24

### View 5

No.	Part Code	Part Name	Description	Q'ty
g	510000734	SCREW 1.4X6	PAN TAPTITE P FE BZC	8

# **Wiring Diagram**





No.	Part Code	Part Name	Description	Q'ty
W1	5100054336	WIRING	W1 (BATTERY)	1
W2	5100054337	WIRING	W2 (SP-L)	1
W3	5100054338	WIRING	W3 (SP-R)	1
W4	5100054331	CABLE ASSY FOR MSK-3P	26WAY 290+180MM W/3 HEADER	1
W5	5100054340	WIRING	1061#28 7X150-PHR-PHR-F	2
W6	5100054339	WIRING	1061#28 2X150-PHR-PHR-F	1

15

# **Parts List**

Safety Precautions: The parts marked ∕∆have	Due to one or more of the following reasons, parts with par as service parts.	ts code ******** cannot be supplied
safety-related characteristics. Use only listed parts for replacement.	<ul> <li>Supply is prohibited due to copyright restrictions.</li> <li>It is carried in electronic data on the Roland web site.</li> <li>The part is made to order (at current market price).</li> <li>It can be replaced with an article on the market. (battery or etc.)</li> </ul>	<ul> <li>Reissuance is restricted.</li> <li>It is supplied as an assembled part (under a different part code).</li> </ul>
	<ul> <li>It is a package or an accessory irrelevant to the function maintee</li> <li>A number of circuit boards are grouped together and supplied a</li> </ul>	nance of the main body. as a single circuit board (under a different part code).

CASING					
#	5100054324	TOP CASE			1
#	5100054326	BOTTOM CASE			1
#	5100054328	BATTERY COVER			1
CHASSIS					
#	5100054436	KEV STOPPER			1
π	5100054450	KET 5TOFTER			1
KNOB, BUTTON	l				
#	5100054839	RUBBER SWITCH	POWER		1
SWITCH					
#	5100054440	RUBBER SWITCH	13P	for Koyboard	5
#	5100054440	RUBBER SWITCH	151	loi Reyboard	5
JACK, EXT TER	MINAL				
	04452945	3.5MM JACK	YKB21-5344N		2
	13449252	6.5MM JACK	YKB21-5006 (STEREO W/SW)		1
	13449717	ADAPTOR JACK	HEC2392-01-150		1
	5100048112	USB CONNECTOR	105017-0001		1
	E1000E4026	LCD	OCC1202 20 PTDCM/C D CTNI NIECA		1
#	5100054926	LCD	Q5G1202-20-B1D5W5-K 511N NEGA		1
SPEAKER, BUZ	ZER				
#	5100054442	SPEAKER	BE-DQ813F-02		2
PWB ASSY	E1000E2 <ee< th=""><th></th><th></th><th></th><th></th></ee<>				
PWB ASSY #	5100053675	MAIN BOARD ASSY			1
PWB ASSY #	5100053675	MAIN BOARD ASSY			1
PWB ASSY # #	5100053675 5100053677	MAIN BOARD ASSY PANEL SHEET ASSY			1
PWB ASSY # #	5100053675 5100053677 * This unit in	MAIN BOARD ASSY PANEL SHEET ASSY ncludes the following parts.			1
PWB ASSY # #	5100053675 5100053677 * This unit in ********	MAIN BOARD ASSY PANEL SHEET ASSY ncludes the following parts. PANEL-L BOARD PANEL P BOARD			1
PWB ASSY # #	5100053675 5100053677 * This unit in ******** ********	MAIN BOARD ASSY PANEL SHEET ASSY ncludes the following parts. PANEL-L BOARD PANEL-R BOARD PWIP SW BOARD			1
PWB ASSY # #	5100053675 5100053677 * This unit in ******* ********	MAIN BOARD ASSY PANEL SHEET ASSY ncludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD			1 1 1 1 1 1 1
PWB ASSY # #	5100053675 5100053677 * This unit in ******* ******** 5100053681	MAIN BOARD ASSY PANEL SHEET ASSY ncludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWR ASSY	MSK-3P 36KEVS	without Rubber SW	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<b>PWB ASSY</b> # #	5100053675 5100053677 * This unit in ******* ******* 5100053681 5100053682	MAIN BOARD ASSY PANEL SHEET ASSY ncludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWR ASSY PWB ASSY	MSK-3P 36KEYS MSK-3P 25KEYS	without Rubber SW without Rubber SW	1 1 1 1 1 1
<b>PWB ASSY</b> # # #	5100053675 5100053677 * This unit in ******* ******* 5100053681 5100053682	MAIN BOARD ASSY PANEL SHEET ASSY neludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWR ASSY PWB ASSY	MSK-3P 36KEYS MSK-3P 25KEYS	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1 1
<b>PWB ASSY</b> # # # # # #	5100053675 5100053677 * This unit in ******* ******* 5100053681 5100053682	MAIN BOARD ASSY PANEL SHEET ASSY neludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWR-SW BOARD PWB ASSY PWB ASSY	MSK-3P 36KEYS MSK-3P 25KEYS	without Rubber SW without Rubber SW	1 1 1 1 1 1 1
PWB ASSY # # # # WIRING, CABLE	5100053675 5100053677 * This unit in ******** ******** 5100053681 5100053682	MAIN BOARD ASSY PANEL SHEET ASSY neludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWR-SW BOARD PWB ASSY PWB ASSY	MSK-3P 36KEYS MSK-3P 25KEYS	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1
PWB ASSY # # # # WIRING, CABLE #	5100053675 5100053677 * This unit in ******** ******** 5100053681 5100053682 5100054331	MAIN BOARD ASSY PANEL SHEET ASSY neludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWB ASSY PWB ASSY PWB ASSY CABLE ASSY FOR MSK-3P	MSK-3P 36KEYS MSK-3P 25KEYS 26WAY 290+180MM W/3 HEADER	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1
PWB ASSY # # # # WIRING, CABLE # #	5100053675 5100053677 * This unit in ******** ******** 5100053681 5100053682 5100054331 5100054331 5100054339	MAIN BOARD ASSY PANEL SHEET ASSY ncludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWB ASSY PWB ASSY PWB ASSY CABLE ASSY FOR MSK-3P WIRING	MSK-3P 36KEYS MSK-3P 25KEYS 26WAY 290+180MM W/3 HEADER 1061#28 2X150-PHR-PHR-F	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1 1 1 1 1
PWB ASSY # # # # # WIRING, CABLE # #	5100053675 5100053677 * This unit in ******** ******** 5100053681 5100053682 5100054331 5100054339 5100054330	MAIN BOARD ASSY PANEL SHEET ASSY ncludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWB ASSY PWB ASSY PWB ASSY CABLE ASSY FOR MSK-3P WIRING WIRING	MSK-3P 36KEYS MSK-3P 25KEYS 26WAY 290+180MM W/3 HEADER 1061#28 2X150-PHR-PHR-F 1061#28 7X150-PHR-PHR-F	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1 1 1 1 1 2
PWB ASSY # # # # # WIRING, CABLE # # #	5100053675 5100053677 * This unit in ******** ******** 5100053681 5100053682 5100054331 5100054331 5100054339 5100054330 5100054336	MAIN BOARD ASSY PANEL SHEET ASSY ncludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWB ASSY PWB ASSY CABLE ASSY FOR MSK-3P WIRING WIRING WIRING WIRING	MSK-3P 36KEYS MSK-3P 25KEYS 26WAY 290+180MM W/3 HEADER 1061#28 2X150-PHR-PHR-F 1061#28 7X150-PHR-PHR-F W1 (BATTERY)	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1 1 1 1 2 1
PWB ASSY # # # # # WIRING, CABLE # # #	5100053675 * This unit in ******** ******** 5100053681 5100053682 5100053682 5100054331 5100054339 5100054339 5100054336 5100054336	MAIN BOARD ASSY PANEL SHEET ASSY ncludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWB ASSY PWB ASSY CABLE ASSY FOR MSK-3P WIRING WIRING WIRING WIRING WIRING	MSK-3P 36KEYS MSK-3P 25KEYS 26WAY 290+180MM W/3 HEADER 1061#28 2X150-PHR-PHR-F 1061#28 7X150-PHR-PHR-F W1 (BATTERY) W2 (SP-L)	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1 1 1 2 1 1 2 1 1
PWB ASSY # # # # # # # # # # # # # # # # # #	5100053675 * This unit in ******** ******** 5100053681 5100053681 5100053682 5100054331 5100054339 5100054339 5100054339 5100054336 5100054337 5100054337	MAIN BOARD ASSY PANEL SHEET ASSY acludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWR-SW BOARD PWB ASSY PWB ASSY PWB ASSY CABLE ASSY FOR MSK-3P WIRING WIRING WIRING WIRING WIRING	MSK-3P 36KEYS MSK-3P 25KEYS 26WAY 290+180MM W/3 HEADER 1061#28 2X150-PHR-PHR-F 1061#28 7X150-PHR-PHR-F W1 (BATTERY) W2 (SP-L) W3 (SP-R)	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1
PWB ASSY # # # # # # # # # # # # # # # # # #	5100053675 5100053677 * This unit in ******** ******* 5100053681 5100054381 5100054331 5100054339 5100054339 5100054337 5100054337	MAIN BOARD ASSY PANEL SHEET ASSY neludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWR-SW BOARD PWB ASSY PWB ASSY PWB ASSY CABLE ASSY FOR MSK-3P WIRING WIRING WIRING WIRING WIRING	MSK-3P 36KEYS MSK-3P 25KEYS 26WAY 290+180MM W/3 HEADER 1061#28 2X150-PHR-PHR-F 1061#28 7X150-PHR-PHR-F W1 (BATTERY) W2 (SP-L) W3 (SP-R)	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1
PWB ASSY # # # # # # WIRING, CABLE # # # # # # # # # # # # # # # # # # #	5100053675 5100053677 * This unit in ******** ******** 5100053681 5100053681 5100054331 5100054339 5100054339 5100054339 5100054337 5100054337	MAIN BOARD ASSY PANEL SHEET ASSY neludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWR-SW BOARD PWB ASSY PWB ASSY PWB ASSY CABLE ASSY FOR MSK-3P WIRING WIRING WIRING WIRING WIRING	MSK-3P 36KEYS MSK-3P 25KEYS 26WAY 290+180MM W/3 HEADER 1061#28 2X150-PHR-PHR-F 1061#28 7X150-PHR-PHR-F W1 (BATTERY) W2 (SP-L) W3 (SP-R)	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1
PWB ASSY # # # # # # # # # # # # # # # # # #	5100053675 5100053677 * This unit in ******** ******** 5100053681 5100053681 5100054331 5100054331 5100054339 5100054337 5100054337 5100054338	MAIN BOARD ASSY PANEL SHEET ASSY netudes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWR-SW BOARD PWB ASSY PWB ASSY PWB ASSY CABLE ASSY FOR MSK-3P WIRING WIRING WIRING WIRING WIRING WIRING SCREW 1 4X6	MSK-3P 36KEYS MSK-3P 25KEYS 26WAY 290+180MM W/3 HEADER 1061#28 2X150-PHR-PHR-F 1061#28 7X150-PHR-PHR-F W1 (BATTERY) W2 (SP-L) W3 (SP-R) PAN TAPTITE P FE BZC	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 8
PWB ASSY # # # # # # # # # # # # # # # # # #	5100053675 5100053677 * This unit in ******** 5100053681 5100053681 5100054331 5100054331 5100054339 5100054336 5100054337 5100054338 510000734 510000734 510000734	MAIN BOARD ASSY PANEL SHEET ASSY neludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWB ASSY PWB ASSY PWB ASSY CABLE ASSY FOR MSK-3P WIRING WIRING WIRING WIRING WIRING WIRING SCREW 1.4X6 SCREW 1.4X6	MSK-3P 36KEYS MSK-3P 25KEYS 26WAY 290+180MM W/3 HEADER 1061#28 2X150-PHR-PHR-F 1061#28 7X150-PHR-PHR-F W1 (BATTERY) W2 (SP-L) W3 (SP-R) PAN TAPTITE P FE BZC BINDING TAPTITE P FE BZC	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1
PWB ASSY # # # # # # # # # # # # # # # # # #	5100053675 5100053677 * This unit in ******** 5100053681 5100053681 5100054331 5100054331 5100054339 5100054336 5100054337 5100054337 5100004338 5100000734 5100000734 51000023206	MAIN BOARD ASSY PANEL SHEET ASSY neludes the following parts. PANEL-L BOARD PANEL-B BOARD PWR-SW BOARD PWB ASSY PWB ASSY WB ASSY CABLE ASSY FOR MSK-3P WIRING	MSK-3P 36KEYS MSK-3P 25KEYS 26WAY 290+180MM W/3 HEADER 1061#28 2X150-PHR-PHR-F 1061#28 7X150-PHR-PHR-F W1 (BATTERY) W2 (SP-L) W3 (SP-R) PAN TAPTITE P FE BZC BINDING TAPTITE P FZC BINDING TAPTITE P ZC	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PWB ASSY # # # # # # # # # # # # # # # # # #	5100053675 * This unit in ******** ******** 5100053681 5100053681 5100053682 5100054331 5100054339 5100054339 5100054336 5100054337 5100054337 5100004337 5100000734 5100000734 5100000734 5100000734	MAIN BOARD ASSY PANEL SHEET ASSY ncludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWB ASSY PWB ASSY CABLE ASSY FOR MSK-3P WIRING WIRING WIRING WIRING SCREW 1.4X6 SCREW 1.4X6 SCREW 2.6X6 SCREW 2.6X6 SCREW 2.6X6 SCREW 3X10	MSK-3P 36KEYS MSK-3P 25KEYS 26WAY 290+180MM W/3 HEADER 1061#28 2X150-PHR-PHR-F 1061#28 7X150-PHR-PHR-F W1 (BATTERY) W2 (SP-L) W3 (SP-R) PAN TAPTITE P FE BZC BINDING TAPTITE P BZC BINDING TAPTITE P ZC BINDING TAPTITE P BZC BINDING TAPTITE P BZC	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PWB ASSY # # # # # # # # # # # # # # # # # #	5100053675 * This unit in ******** ******** 5100053681 5100053681 5100053682 5100054331 5100054331 5100054339 5100054336 5100054336 5100054337 5100054337 510000734 510000734 510000734 510000734 510000734 510000734 5100023206 40011323 40129812	MAIN BOARD ASSY PANEL SHEET ASSY ncludes the following parts. PANEL-L BOARD PANEL-R BOARD PWR-SW BOARD PWB ASSY PWB ASSY WB ASSY CABLE ASSY FOR MSK-3P WIRING WIRING WIRING WIRING WIRING SCREW 1.4X6 SCREW 1.4X6 SCREW 2.6X6 SCREW 2.6X8(JC7000220R0) SCREW 3X10 SCREW 3X18	MSK-3P 36KEYS MSK-3P 25KEYS 26WAY 290+180MM W/3 HEADER 1061#28 2X150-PHR-PHR-F 1061#28 7X150-PHR-PHR-F W1 (BATTERY) W2 (SP-L) W3 (SP-R) PAN TAPTITE P FE BZC BINDING TAPTITE P BZC	without Rubber SW without Rubber SW	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

BINDING TAPTITE B BZC

40012345

SCREW 4X10

#### MISCELLANEOUS

MICOLLE/				
#	5100054428	N-KEY CEGB	MSK-3P	5
#	5100054430	N-KEY DFA	MSK-3P	5
#	5100054432	N-KEY C-DASH	MSK-3P	1
#	5100054434	SHARP-KEY 5P	MSK-3P	5
#	5100055362	SPEAKER NET		2
#	5100054421	PANEL SHEET LEFT		1
#	5100054423	PANEL SHEET RIGHT		1
#	5100054422	PANEL SHEET CENTER		1
	12359137	RUBBER FOOT	SJ-5012 BLK	4
	5100004223	BATTERY TERMINAL	PLUS(754-08052-02-00)	1
	5100004224	BATTERY TERMINAL	MINUS(754-08052-01-00)	1
	5100004225	BATTERY TERMINAL	PM A(754-08052-03-00)	1
	5100004226	BATTERY TERMINAL	PM B(754-08052-04-00)	4
#	5100056334	BATTERY COVER CUSHION		4
	5100006034	BATTERY CUSHION	(761-08052-01-00)	3
#	5100054437	KEY LEVEL CUSHION A		1
#	5100054438	KEY STOP CUSHION A		1
#	5100054439	KEY STOP CUSHION B		1
#	5100056454	KEY STOP CUSHION C		1
#	5100056538	LCD CUSHION LONG		2
#	5100054427	LCD CUSHION SHORT		2
#	5100056543	PANEL CUSHION		4
#	5100056335	PCB CUSHION		1
#	5100055420	SPACER CUSHION SPONGE	71X24X10	1
#	5100055421	SPACER CUSHION SPONGE	30X20X10	1
#	5100055361	KEY FELT BLACK		1
#	5100055422	SPEAKER CUSHION FELT	132X81XT1	2
#	5100055423	ABSORPTIVE FELT	850X7XT0.5MM BLK	1
#	5100055424	ABSORPTIVE FELT	260X7XT0.5MM BLK	2
#	5100031395	PWB FILTER	H301 W13MM 100M (M)	-
	40122812	ACETATE TAPE	NITTO #5 BLACK W15MM 30M	-
	40122556	DOUBLE FACED ADHESIVE TAPE	#575 W30MM 30M	-
	40122534	DOUBLE-FACED TAPE	#500 W3MM 20M 136P	-
	40122445	ADHESIVE CEMEDINE SUPER-X	NO.8008 170G/135ML	-

#### ACCESSORIES (Standard)

(••••••••)				
5100047385	AC ADAPTOR	PSD-100 2	for 100V	1
5100047387	AC ADAPTOR	PSD-120Z 2 (117VBL)	for 117VBL	1
5100047386	AC ADAPTOR	PSD-120 2 (117V TW/CS)	for 117VU, 117VU/CS	1
5100047388	AC ADAPTOR	PSD-220 2 (220VCN)	for 220VCN	1
5100047389	AC ADAPTOR	PSD-220K 2	for 220VK	1
5100047391	AC ADAPTOR	PSD-230E 2 (230V UK)	for 230VE	1
5100047390	AC ADAPTOR	PSD-230 2 (230VEU)	for 230VEU	1
5100047392	AC ADAPTOR	PSD-240 2 (240VA)	for 240VA	1
5100055363	OWNER'S MANUAL	MULTILANGUAGE		1
	5100047385 5100047385 5100047387 5100047386 5100047388 5100047389 5100047391 5100047390 5100047392 5100055363	5100047385         AC ADAPTOR           5100047387         AC ADAPTOR           5100047387         AC ADAPTOR           5100047386         AC ADAPTOR           5100047388         AC ADAPTOR           5100047389         AC ADAPTOR           5100047391         AC ADAPTOR           5100047390         AC ADAPTOR           5100047390         AC ADAPTOR           5100047392         AC ADAPTOR           5100047392         AC ADAPTOR           5100055363         OWNER'S MANUAL	5100047385         AC ADAPTOR         PSD-100 2           5100047385         AC ADAPTOR         PSD-120Z 2 (117VBL)           5100047386         AC ADAPTOR         PSD-120 2 (117VTW/CS)           5100047388         AC ADAPTOR         PSD-220 2 (220VCN)           5100047389         AC ADAPTOR         PSD-220 2 (220VCN)           5100047389         AC ADAPTOR         PSD-220 2 (230V UK)           5100047390         AC ADAPTOR         PSD-230E 2 (230V UK)           5100047390         AC ADAPTOR         PSD-230 2 (230VEU)           5100047392         AC ADAPTOR         PSD-240 2 (240VA)           5100055363         OWNER'S MANUAL         MULTILANGUAGE	5100047385         AC ADAPTOR         PSD-100 2         for 100V           5100047385         AC ADAPTOR         PSD-120Z 2 (117VBL)         for 117VBL           5100047386         AC ADAPTOR         PSD-120Z 2 (117VTW/CS)         for 117VU, 117VU/CS           5100047388         AC ADAPTOR         PSD-220 2 (220VCN)         for 220VCN           5100047389         AC ADAPTOR         PSD-220 2 (220VCN)         for 220VCN           5100047389         AC ADAPTOR         PSD-220 2 (220VCN)         for 220VK           5100047390         AC ADAPTOR         PSD-230E 2 (230V UK)         for 230VE           5100047390         AC ADAPTOR         PSD-230 2 (230V UK)         for 230VEU           5100047392         AC ADAPTOR         PSD-240 2 (240VA)         for 240VA           5100055363         OWNER'S MANUAL         MULTILANGUAGE         for 240VA

\* AC adaptors for 100V, 117V U and 230V EU supplied as repair parts are different from the AC adaptors packed with the products when shipping.

# Verifying the Version

- Touch SETTING several times to display VERSION. The version information is displayed on the screen.
- Touch EXIT. The initial screen returns.

# Data Backup and Restore Operations

# **Items Required**

- Computer
- USB cable (A <-> Micro B)

# **Backup Procedure**

Both song data and the system settings saved in the unit can be backed up completely by the following procedure.

- \* However, pairing information of Bluetooth can not be backed up. When returning the product to the customer, request him/her to pair by himself/herself again.
- **1.** Connect the **USB COMPUTER** connector on the rear panel to the computer using the USB cable.
- 2. Touch SETTING several times to display BACKUP.
- Touch ENTER. The BACKUP drive appears on the computer's screen.
- 4. Copy the **GO-61** folder on the **BACKUP** drive to the computer.
- \* Copy the entire **GO-61** folder to the computer. The backup cannot be executed correctly when only folders or files in the **GO-61** folder are copied.
- **5.** End the USB connection using the proper procedure for the computer. The initial screen returns.
  - \* Sometimes the backup may not progress if the connection with the GO-KEYS is terminated on the computer side. In that case, after terminating the connection on the computer, touch **EXIT**.
- **6.** Disconnect the USB cable.

# **Restore Procedure**

- 1. Connect the **USB COMPUTER** connector on the rear panel to the computer using the USB cable.
- 2. Touch SETTING several times to display RESTORE.
- **3.** Touch ENTER.
  - The **RESTORE** drive appears on the computer's screen.
- **4.** Copy the **GO-61** folder which has been backed up on the computer to the **RESTORE** drive.
  - \* Copy the entire **GO-61** folder to the **RESTORE** drive. The restoring cannot be executed correctly when only folders or files in the **GO-61** folder are copied.
- **5.** End the USB connection using the proper procedure for the computer. When the connection is terminated, the restore operation starts.
  - \* Sometimes the restoring may not progress if the connection with the GO-KEYS is terminated on the computer side. In that case, after terminating the connection on the computer, touch **EXIT**.

When the operation finishes, **Completed. TurnOffPower** is displayed.

**6.** Disconnect the USB cable and reset the power.

# Performing a Factory Reset

Executing the following procedure resets all song data saved in the unit and each setting to their factory default. By this method, you can get the result same as **Factory Reset** (p. 18) in Test Mode.

- 1. Touch SETTING several times to display FACTORY RST.
- **2.** Touch **ENTER**.
  - A confirmation screen appears.
- To execute the factory reset, touch ENTER. To cancel it, touch EXIT. When touching ENTER, Executing... appears on the screen and the factory reset is executed.
- **4.** Turn off the power.

# **Updating the System**

# Items Required

- Computer
- USB cable (A <-> Micro B)
- Update file (obtained via Service Net)

### Procedure

- Make sure the power to the unit is turned off, then connect the USB COMPUTER connector on the rear panel to the computer using the USB cable.
- **2.** Double-tap  $\bigcirc$  and keep pressing when the second tapping.
- **3.** Make sure that **Roland** and then **UPDATER** are displayed on the screen, release your finger.

The **ROLAND** drive appears on the computer's screen.

- **4.** Copy the update file (**go61\_s\_up.bin**) to the root folder of the **ROLAND** drive.
- Eject the ROLAND drive and disconnect the USB cable. The update starts automatically. The update takes approximately 30 seconds.
  - \* Never switch off the power while the update is in progress.

When Finish! appears, the update has finished.

**6.** Reset the power.

# Test Mode

### **Items Required**

- AC adaptor (PSD-series device)
- Pedal switch (DP-2, etc.)
- 1/4-inch monaural phone plug
- USB cable (A <-> Micro B)
- Amp-equipped monitor speaker (x 2)
- Oscillator
- Oscilloscope
- Noise meter
- Computer
- Stabilized power supply unit
- AA Ni-MH batteries (x 6) or alkaline AA batteries

#### Only for GO-61K model

- Mobile device capable of Bluetooth LE (iPhone, iPad or etc.: iOS 9 or later)
- Software program capable of Bluetooth MIDI (GarageBand or etc.: the latest version)
- \* Install it to the mobile device capable of Bluetooth LE just described.

# Entering the Test Mode

- \* The procedure of Entering the Test Mode is changed as follows from version 1.20 or later.
- 1. Verify that nothing is connected to the **PHONES/OUTPUT** jack on the rear panel.
- 2. Connect the AC adaptor.
- 3. Connect the pedal switch to the **PEDAL** jack on the rear panel.
- **4.** Hold down the pedal switch and the rightmost key (C7) of the keyboard and press and hold 𝔄.

Continue to hold down the pedal switch, the rightmost key (C7) of the keyboard and <sup>(1)</sup> until the screen like the following appears.

ф	0	BOOT	Ver	1		00	m
		APLI	Ver	1		04	
				Ē	ļ	28	3
5							

5. Disconnect the plug from the PEDAL jack.

### **Quitting the Test Mode**

Turn off the power.

### **Skipping the Test Items**

Immediately after entering the Test Mode, you can select each test item by touching (0) or (1) and skip to the selected test item by pressing (0).

When entering Model Select (p. 15), selecting the test item by touching ◄)) or ◄) is not possible. And also the test item cannot be skipped while testing is in progress.

### **Test Items**

Version (p. 15) Model Select (p. 15) Touch Test (p. 16) Device Test (p. 16) LCD Test (p. 16) Bluetooth Test (p. 17) Jack Test (p. 17) USB Test (p. 17) WaveROM Test (p. 17) Keyboard Test (p. 17) Factory Reset (p. 18) Erp Test (p. 18)

The following test items are executed in the normal mode. **Pop Noise Test** (p. 18)

Battery Driving & Shock Noise Test  $(p.\,18)$  Bluetooth Test  $(p.\,18)$ 

### Version

This verifies the version.

\$ 	8	BOOT Ver1.00 APLI Ver1.04	m ø
► (j=)			
÷			Ô

Touch + to advance to the next test item.

### **Model Select**

This makes the setting for the model of the unit being tested.

⇔	0	Model Select	
		[PLY]or[REC]	
		6/8 3 666	

**1.** Touch  $\blacktriangleright$  /  $\blacksquare$  or **LOOP MIX** to select the model.

Correct model name for the unit being tested is printed on the sticker at the bottom face. Select the model name correctly because the Bluetooth function should be enabled or not if the model name has -L or not at the end of it. Without -L: the Bluetooth function is enable. With -L: the Bluetooth function is not enable.

 In case of GO-61K, touch ►/■. In case of GO-61KL, touch LOOP MIX. The model setting is written.

# Touch +. The model setting is written and execution advances to the next test item.

# Touch Test

This verifies the operation of the touch switches.

Touch	Tes	st	iii T
		88	

- Touch the switch shown in the figure below and verify that the icon ( or ) corresponding to the touched switch on the screen lights up.
  - \* The switches can be touched in any sequence.

0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
۲		J	•	,		(nec	Touch Test	(or	(internet			(100)			
	ſ	ſ		ſ	ſ	- 👳	: 00	Ģ	¢				-		
1	3	5	7	9	11	13 /// 🔏	15 0 4 8 12 16 20 23 2 6 10 14 18 22 1 1 1 1 1 1 1 1 5 9 13 17 23 3 7 11 15 19 25	17 3 28 26 30 1 1 27 31 5 29	19		23	25	27	29	31

When all switches have been touched, a screen like the following appears.

\$ (	3	Touch Test
		Complete
÷.		••••••••••••••

**2.** Touch **+** to advance to the next test item.

### **Device Test**

The operation of each device is tested automatically.

\$ (	Device Test =
	Executing

\* The test result for the Wave ROM is not displayed here. In this **Touch Test** (p. 16), testing of the entire Wave ROM starts and it continues in the background while the other tests are executed. For the test result, check **WaveROM Test** (p. 17).

When testing for all devices has finished, execution automatically advances to the next test item.

### LCD Test

This verifies the display of the LCD screen.

\$ ₿	LCD Test	
Ð	Press [+]	
► 0		
400 A		
53		$\bigcirc$

1. Touch +. The screen lights up like the following.

* 8 + 1	*************	н Ф, 🗐
► • (*) [X		3 <b>1</b> 4
۲. ۲.		0

**2.** Touch +.

The screen lights up like the following.

⇔	0		
		НННННННННН	電子
			里
10			$\overline{\bigcirc}$
÷	÷		$\mathbf{O}$

**3.** Touch **+**.

The screen lights up like the following.

⇔	0	T	T	T	T	T	T	T	T	T	T	T	T	
		T	T	T	T	T	T	T	T	T	T	T	T	
									ik j		<u>ic</u>	2	Q	
			• •	•	•	s P 4	•	•	) ( 		•		-	

**4.** Touch +.

The screen lights up like the following.

\$	8				
		<b>□</b> #mM7 <sub>Aug5</sub>			
[[ <sup>(n)</sup> ]		Sus 9464	7,0	1,0	
- F	÷	•••••••	0.01		$\odot$

5. Touch +.

All segments light up with maximum contrast.

\$₿	TTTTTTTTTTTT	
÷	TTTTTTTTTTT	感出
► ● 4~) <u>A</u>		0 🖡 🗄
÷.	••••••••	0

**6.** Touch **+**.

All segments light up with minimum contrast.

**7.** Touch + to advance to the next test item.

### **Bluetooth Test**

This test item is performed in the normal mode (**Bluetooth Test** (p. 18)). Touch + to advance to the next test item.

\* Note that high-volume sound is output from the speaker when execution advances to the next test item. The volume level can not be adjusted.

# Sound Test

This verifies the operation of the speakers and the **PHONES/OUTPUT** jack.

\* Note that high-volume sound is output from the speaker.

ф	0	Sound	Test	
		SINE		
			nidim <b>Ci.C</b>	102

- Verify that signals like the following are output from the speakers (L/R). Speaker L: 1-kHz sine wave Speaker R: 2-kHz sine wave
- 2. Connect the oscilloscope to the PHONES/OUTPUT jack (L/R).
- **3.** Verify that speaker output are muted and the waveforms like the following are output.



PHONES/OUTPUT L: 1-kHz sine wave at 1.2±0.2 Vpp PHONES/OUTPUT R: 2-kHz sine wave at 1.2±0.2 Vpp

**4.** Touch **+** to advance to the next test item.

### **Jack Test**

This verifies the operations of the **AUX IN**, **PHONES/OUTPUT** and **PEDAL** jacks and performs testing for residual noise.

₽.	Jack Test	щ
	0: P:	б +
		÷.
		5

1. Connect the oscillator to the  $\mbox{AUX IN}$  jack (L/R) and input signals like the following.

AUX IN L: 1-kHz sine wave at 1.2 Vpp AUX IN R: 1-kHz sine wave at 1.2 Vpp

 Verify that signals like the following are output from the PHONES/ OUTPUT jack (L/R).



PHONES/OUTPUT L: 1-kHz sine wave at 1.35±0.2 Vpp PHONES/OUTPUT R: 1-kHz sine wave at 1.35±0.2 Vpp

**3.** Detach the oscillator and the oscilloscope.

- **4.** Connect the noise meter to the **PHONES/OUTPUT** jack (L/R) and verify the noise levels.
  - PHONES/OUTPUT L: -80 dBm or less (DIN-Audio) PHONES/OUTPUT R: -80 dBm or less (DIN-Audio)
- Connect and disconnect the noise meter. The display of O: changes to O:OK.
- **6.** Connect a 1/4-inch monaural phone plug to the **PEDAL** jack. The display of **P:** changes to **P:OK**.
- **7.** Disconnect the plug.
- **8.** Touch + to advance to the next test item.

### **USB** Test

This verifies the operation of the  $\ensuremath{\mathsf{USB}}$  COMPUTER connector.

Ф	0	USB	
			部

**1.** Connect the **USB COMPUTER** connector to the computer using the USB cable.

**OK** is displayed on the screen.

- **2.** Disconnect the USB cable.
- **3.** Touch + to advance to the next test item.

### WaveROM Test

This verifies the result of the checking for the entire WAVE ROM area.

\* This item starts after **Device Test** (p. 16) has been executed. If **Device Test** (p. 16) has not been selected, **Not Started** is displayed on the screen and the test also does not start. In this case, re-enter the Test Mode again.

⇔		WaveROM	Test	
$f^{(n)}$				
₩.	÷		•••••	$\bigcirc$

When **OK** appears, touch + to advance to the next test item.

### **Keyboard Test**

This verifies the operation of the keyboard.

\$ •	8	KBD	Test	Pno	- -
				388	単★の
÷	÷				$\hat{\Omega}$

- 1. Play all keys, and verify that notes are produced with piano sound. And also verify that the volume level changes and velocity values displayed on the screen change according to the velocity with which the keyboard is fingered.
- 2. Touch +.
- **3.** Play all keys and verify that notes are produced with organ sound. And also verify that the volume level changes and velocity values displayed on the screen change according to the velocity with which the keyboard is fingered.
- Touch + to advance to the next test item.

# **Factory Reset**

This performs a factory reset.

¢	0	FactoryReset	1
		Press[+]	

Touch +.

The factory reset is executed.

When the factory reset has finished, execution automatically advances to the next test item.

### Erp Test

This checks the auto-off function.

ErP Test	
Press [+]	

Touch + and verify that the power to the unit is turned off.

### **Battery Test**

This verifies the detect operation of the battery voltage.

- **1.** Disconnect the AC adaptor.
- **2.** Connect the stabilized power supply unit to the terminals of the battery box as shown in the figure below and apply **+7.0 V**.



The unit enters the Test Mode.

**3.** Touch ►/■.

**NORMAL** is displayed on the screen.



- **4.** Set the output voltage of the stabilized power supply unit to **+6.0 V**. **BATT LOW** is displayed on the screen.
- Set the output voltage of the stabilized power supply unit to +5.5 V. UNCONTROL is displayed on the screen.
- Set the output voltage of the stabilized power supply unit to +7.0 V.
   Complete is displayed on the screen.
- **7.** Press <sup>(1)</sup> to turn off the power.

This completes the testing in the Test Mode. The following tests are performed in the normal mode.

### Pop Noise Test

This verifies the pop noise.

φ	0	[PIANO]	m
		StageGrand	
		••••••	

- 1. Connect the AC adaptor.
- **2.** Repeat turning on and off the power three times and verify that no artifacts or abnormal noises are heard from the speakers.
- **3.** Connect the amp-equipped monitor speakers to the **PHONES/OUTPUT** jack.
- **4.** Repeat turning on and off the power three times and verify that no artifacts or abnormal noises are heard from the monitor speakers.
- **5.** Detach the monitor speakers.

### **Battery Driving & Shock Noise Test**

This verifies the operation by battery power, and make an impact on the product and verify that no artifacts or abnormal noises are heard.

- 1. Disconnect the AC adaptor and set the batteries in the Battery Box.
- **2.** Press <sup>(1)</sup> to turn on the power.
- 3. Touch LOOP MIX
- Press the leftmost key. The pattern (drum sound) is played back.
- **5.** Verify that the pattern (drum sound) is heard from the left and right speakers.
- **6.** Lift the front end of the unit about 5 cm and drop it, and verify that the momentary power interruption does not occur and no artifacts or abnormal noises are heard.
- **7.** Touch ►/■ to stop the playback of the pattern (drum sound).
- **8.** Press <sup>(1)</sup> to turn off the power.

### **Bluetooth Test**

This item tests the Bluetooth function. (Only for GO-61K model)

\* For explanation in this section, we will choose iPhone as an example of the mobile device with Bluetooth function.

#### Verifying the Bluetooth Audio Function

- **1.** Place an iPhone near the GO-61K.
- 2. On the iPhone, enter Settings and set Bluetooth off.
- 3. Touch SETTING several times to display BT PAIRING.
- **4.** Touch **ENTER**.
- Pairing... is displayed and GO-61K waits for a response from the iPhone.5. On the iPhone, enter Settings and set Bluetooth on.
- 6. Tap GO:KEYS Audio displayed on the Bluetooth screen of the iPhone. When pairing succeeds, Connected is displayed on the right of GO:KEYS Audio and Connected is displayed and the Bluetooth icon
   ( ) lights up on the GO-61K's screen.
- **7.** Play back any music in the Music application of the iPhone.
- **8.** Verify that sound is produced from the speakers on the GO-61K.
- \* When verification of all Bluetooth functions has finished, cancel the registration of the Bluetooth device and execute the factory reset.

### Verifying the Bluetooth MIDI Function

- **1.** Place an iPhone near the GO-61K.
- **2.** On the iPhone, enter **Settings** and set **Bluetooth** on.
- \* **GO:KEYS MIDI** does not appear on the Bluetooth screen. Paring operation should be carried out not on the Bluetooth screen but in GarageBand. Advance to the next step as it is.
- **3.** Start GarageBand on the iPhone.
- **4.** Tap ② (or ☑) at the upper right of the GarageBand screen.
- 5. Tap Details and Bluetooth MIDI Devices.
- 6. Tap GO:KEYS MIDI, and when you are requested to pair, tap Pair. When pairing succeeds, Connected is displayed on the right of GO:KEYS MIDI and the Bluetooth icon ( ) lights up on the GO-61K's screen.
- **7.** Touch and hold **●**) on the GO-61K to set the volume to **0**.
- **8.** Play the keyboard of the GO-61K to verify that sound is produced from the iPhone.
  - \* To adjust the sound volume, use volume buttons on the iPhone.
  - \* When verification of all Bluetooth functions has finished, cancel the registration of the Bluetooth device and execute the factory reset.

### Canceling the Registration of the Bluetooth Device and Factory Reset

- Tap Settings and Bluetooth on the iPhone, and tap (i) at the right of GO:KEYS Audio to cancel the registration of this device.
- 2. Cancel the registration of GO:KEYS MIDI in the same way as step 1.
- **3.** Follow the procedure in **Performing a Factory Reset** (p. 14) to execute the factory reset.
  - \* Executing the factory reset can erase the information of the Bluetooth device used for testing. However, the information of the Bluetooth device paired by the customer is also erased. When returning the product to the customer, request him/her to pair by himself/herself again.

# Adjustment Method of the Button Sensitivity

If you feel that the button sensitivity is markedly sluggish or sensitive, adjust the **Gain** value of the target button.

- \* The button sensitivity may vary according to the environment or person who operates. Normally it's no problem if the factory reset is executed to return the unit to the factory-default state. However, the adjustment procedure is described below for reference. Execute it as required.
- **1.** Press  $\bigcirc$  to turn on the power.
- 2. Touch SETTING several times to display VERSION.
- **3.** Touch **ENTER** five times.

The following screen appears.



**4.** Touch the leftmost or rightmost performance pad shown in the figure to select the target button.







- Touch or + to set the Gain value (03–06).
   Setting the value larger makes the measured value of the corresponding button larger and its sensitivity higher.
  - \* Touching each button shows the measured value for the button. The value of 14 to 25 is one of the indications.
  - \* When verifying the measured value of or +, write down the Gain value of them. If the Gain value is changed after that, return it to the value that you wrote down.
- **6.** Press <sup>⊕</sup>.

The **Gain** value is written to the unit and the display returns to the **VERSION** screen.

- **7.** Press <sup>(1)</sup> to turn off the power.
  - \* Executing a factory reset returns the **Gain** value set here to their factory defaults.