LK-S450 Casiotone

USER'S GUIDE



Getting Ready to Play

Preparing a Power Supply

Connecting Headphones (Option)

Connecting a Pedal (Option)



Selecting a Musical Instrument Tone



Changing the Pitch in Semitone Units (Transpose)

	_	_	_	_	
Fine	Tu	nin	g (Tur	ing)





Saving and Recalling a Setup (MY SETUP)

Playing a Built-in Song

53

Singing with Karaoke



Using a Lesson to Master Song Play



Linking with a Smart Device (APP Function)



Configuring Settings



Troubleshooting



Included and Optional Accessories

Use only accessories that are specified for use with this Digital Keyboard. Use of unauthorized accessories creates the risk of fire, electric shock, and personal injury.

NOTE

• You can get information about accessories that are sold separately for this product from the CASIO catalog available from your retailer, and from the CASIO website. https://support.casio.com/global/en/emi/manual/LK-S450/



About Music Score data

You can download music score data as a PDF file from the CASIO website. You will then be able to view music scores on your smart device. You can jump from the PDF file table of contents directly to the music score you want, and you can print out scores as needed. https://support.casio.com/global/en/emi/manual/LK-S450/



- Any reproduction of the contents of this manual, either in part or its entirety, is prohibited. Except for your own, personal use, any other use of the contents of this manual without the consent of CASIO is prohibited under copyright laws.
- IN NO EVENT SHALL CASIO BE LIABLE FOR ANY DAMAGES WHATSOEVER (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF PROFITS, BUSINESS INTERRUPTION, LOSS OF INFORMATION) ARISING OUT OF THE USE OF OR INABILITY TO USE THIS MANUAL OR PRODUCT, EVEN IF CASIO HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
- The contents of this manual are subject to change without notice.
- The actual appearance of the product may be different from that shown in the illustrations in this User's Guide.
- Company and product names used in this manual may be registered trademarks of others.

EN-6

General Guide	EN-6
Getting Ready to Play	EN-8
Preparing a Power Supply Preparing the Music Stand	
Connecting Headphones (Option)	
Connecting a Commercially Available Microphone	
Connecting the Wireless MIDI & audio adaptor (Option)	EN-14
Attaching a Strap (Commercially Available)	EN-15
Operations Common to All Modes	EN-16
Display Screen Contents.	EN-16
Home Screen	EN-17
5 buttons	
Changing the Button Long-press Time	
Dial Operations	
Selecting a Function from a Menu	
Disabling Keyboard Lighting	
Playing on the Keyboard	EN-25
Turning Power On or Off.	
Adjusting the Volume Level.	
Using the Metronome	
Changing the Depth of Microphone Reverb (MIC Reverb)	
Listening to Demo Play	
Controlling the Sound of a Performance	EN-35
Selecting a Musical Instrument Tone	
Playing with Touch Response.	
Using a Pedal	
Sustaining Notes After Keyboard Keys Are Released	
Playing with Reverb	
Adding the Chorus Effect to a Tone	
Playing with a More Expanded Sound (Surround)	
Layering and Splitting Tones.	
Changing the Volume Balance Between Keyboard Play and Rhythm Play (Balance) . Changing the Pitch in Octave Units (Octave Shift)	
Changing the Pitch in Semitone Units (Transpose)	
Fine Tuning (Tuning).	
Changing the Keyboard Scale Tuning	
Using the Equalizer	

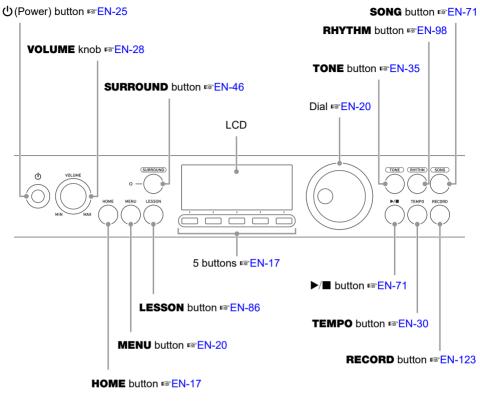
Saving and Recalling a Setup (MY SETUP)	EN-63
Saving to MY SETUP	EN-63
Recalling a MY SETUP	EN-66
Enabling MY SETUP Power On Recall.	EN-67
Renaming a MY SETUP	EN-68
Deleting a MY SETUP	EN-69
Playing a Built-in Song	EN-71
Songs	EN-71
Using the SONG Function	EN-71
Playing Songs	EN-71
Matching the Keyboard Tone and Song Tone (Tone Sync)	EN-77
Practicing a Song Part (Part Off)	EN-78
Sounding a Count in Time with a Song	EN-79
Increasing the Selection of Songs (User Songs)	EN-80
Singing with Karaoke	EN-82
Using a Microphone to Sing Along with a Song	EN-82
Specifying a Channel for an SMF User Song Karaoke Part	EN-85
Using a Lesson to Master Song Play	EN-86
Using the LESSON Function.	
EASY Mode	EN-87
Doing a Lesson Step-by-step	EN-89
Using the Challenge Mode to Check Your Results	EN-92
Looping Part of a Song as a Lesson (Loop Lesson)	EN-93
Disabling Lesson Fingering Voice Guide	EN-94
Disabling Note Sound Guide	EN-95
Disabling Performance Evaluation	EN-96
Playing with a Rhythm Backing	EN-97
Rhythm	
Using the Rhythms	EN-97
Playing a Rhythm	EN-98
Using Recommended Rhythm Settings (One Touch Presets)	EN-102
Adjusting the Tempo by Tapping (Tap Tempo)	EN-102
Sounding Rhythm as You Use Tap Tempo	EN-103
Changing the Rhythm Pattern	EN-104
Inserting a Fill-in Phrase	EN-107
Fingering a Chord to Play a Rhythm Accompaniment	EN-108
Starting Rhythm Play when a Chord is Played (Synchro Start)	EN-112
Configuring Rhythm Play to Stop Automatically when Chord Play is Stopped (Synchro Stop)	EN-113
Changing the Rhythm Pattern and the Fill-in Operation Type	EN-114
Disabling Automatic Setting of the Tempo and Pattern when a Rhythm is Selected	EN-117
Increasing the Number of Rhythms (User Rhythms)	EN-118

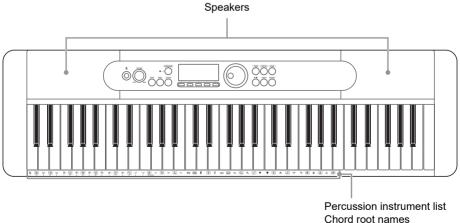
EN-3

Chord Lookup (Chord Book)	EN-119
Recording Your Keyboard Play	EN-122
Easy Keyboard Play Recording	. EN-123
Deleting an Easy Recording	EN-128
Overdub Recording (Multi-track Recording)	. EN-129
Copying a Tone Recording or Rhythm Recording as a Multi-track Recording	. EN-131
Muting a Multi-track Recording Track	. EN-132
Adjusting the Volume Level and Pan of Each Track of a Multi-track Recording (Mixing).	. EN-134
Copying a Multi-track Recording	. EN-136
Deleting One or More of the Multi-track Recordings in Memory	. EN-138
Copying the Solo Track of a Multi-track Recording	. EN-139
Deleting a Multi-track Recording Track	. EN-140
Customizing the Home Screen (Home Customization)	EN-142
Changing the Base Display.	. EN-143
Changing the Function of Each 5 buttons	. EN-144
Preventing Playback Stop when HOME is Pressed (PANIC function)	. EN-145
Configuring Settings	EN-146
Setting Operation	EN-146
Setting Item List	. EN-147
Using a USB Flash Drive	EN-151
Inserting and Removing a USB Flash Drive on the Digital Keyboard	EN-152
USB Flash Drive Formatting	. EN-153
USB Flash Drive Operations	. EN-155
Connecting with External Devices	EN-163
Linking with a Smart Device (APP Function)	. EN-163
Connecting to a Computer and Using MIDI	. EN-166
Using a Cable to Connect with an Audio Device	EN-168
Sounding a Bluetooth Audio Capable Device (Bluetooth Audio Pairing)	EN-170
Deleting Bluetooth Audio Capable Device Pairing Registration	EN-173
Connecting with a Bluetooth MIDI Capable Device	EN-175
Turning Off Bluetooth	. EN-176

Reference	EN-177
Troubleshooting	EN-177
Error Indicators	EN-180
Product Specifications.	EN-182
Song List	EN-185
Tone List	EN-187
Rhythm List	EN-200
Drum Assignment List	EN-203
Versatile Tone Map	EN-208
Home Customization 5 buttons Function List	EN-210
Fingering Guide.	EN-212
Chord Example List	EN-214
MIDI Implementation Chart	

Front Panel



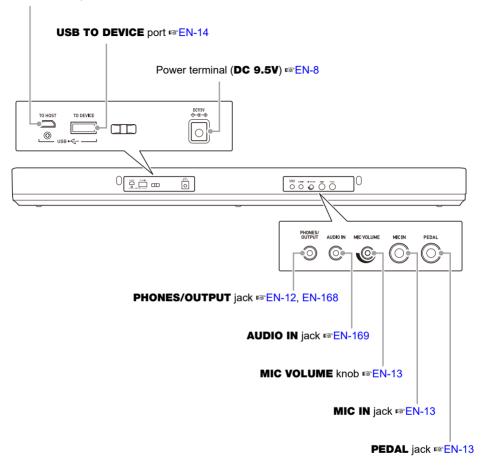


• The numbers to the right of the 🖙 symbol are reference page numbers.

EN-6

Back

USB TO HOST port TEN-163



• The numbers to the right of the 🖙 symbol are reference page numbers.

Getting Ready to Play

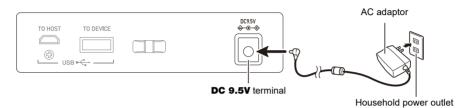
Preparing a Power Supply

Though either an AC adaptor or batteries can be used for power, use of AC adaptor power is normally recommended.

Using the AC Adaptor

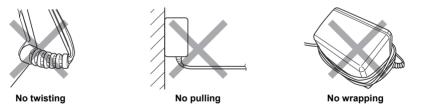
Use only the AC adaptor (JEITA Standard with unified polarity plug) specified for this Digital Keyboard. Use of a different type of AC adaptor can cause malfunction.

AC Adaptor Type: AD-E95100L (JEITA Standard plug)



N IMPORTANT!

- Be sure to turn off Digital Keyboard power before connecting or disconnecting the AC adaptor.
- The AC adaptor becomes warm to the touch after very long use. This is normal and does not indicate malfunction.
- To prevent breaking of the wire, take care to avoid putting any type of load on the power cord.



• Never insert metal, pencils, or any other objects into the **DC 9.5V** terminal. Doing so creates the risk of accident.

Using Batteries for Power

N IMPORTANT!

- Be sure to turn off power before loading batteries.
- Use commercially available AA-size alkaline batteries or AA-size rechargeable nickel metal hydride batteries.
- Low battery power can cause abnormal operation. If this happens, replace batteries with new ones. If you are using rechargeable batteries, charge them.

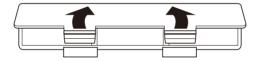
Batteries

Note the precautions below when using rechargeable batteries.

- Use Panasonic Group AA-size eneloop rechargeable batteries. Do not use any other type of batteries.
- Use only the specified charger to charge batteries.
- Rechargeable batteries must be removed from the product for charging.
- For information about using encloop batteries or their specified charger, be sure to read the user documentation and precautions that come with each item, and use them only as directed.

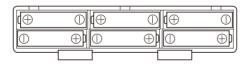
Be sure to replace batteries at least once a year, even if there is no indication of low battery power. Dead rechargeable batteries (eneloop) in particular may deteriorate if they are left in the product. Remove rechargeable batteries from the product as soon as possible after they go dead.

f 1 . Open the battery cover on the back of the Digital Keyboard.



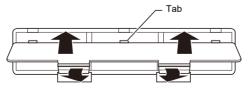
2. Load six AA-size batteries into the battery compartment.

• Load batteries with their positive (+) and negative (-) ends facing correctly.



${f 3}_{f a}$ Insert the tabs of the battery cover into the holes, and close the cover.

• Configure the setting below to specify the type of batteries you loaded.



■ Specifying the Battery Type

1 Turn on the Digital Keyboard.

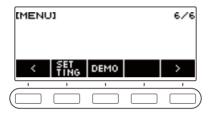
• See "Turning Power On or Off" (page EN-25).

2. Press MENU.

This displays the menu screen.



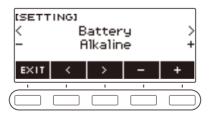
3. Use < and > to select the 5 buttons menu (page EN-17) that includes SETTING.



4. Press SETTING.

This displays the setting screen.

5. Use < and > to select "Battery".

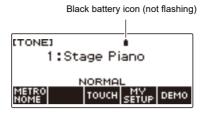


- **6**. Rotate the dial or use and + to select "Alkaline" (alkaline batteries) or "Ni-MH" (nickel-metal hydride batteries).
- **7**. To exit the setting operation, press EXIT.

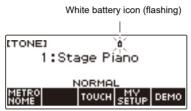
■ Low Battery Indication

A battery icon appears on the display to let you know when battery power is getting low.

Declining Battery Power



Battery Replacement Required



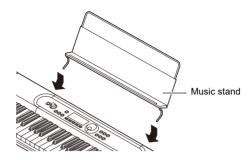
- Low battery power may cause notes to become distorted, or other problems.
- You can conserve battery power by using headphones and by reducing the volume level.

N IMPORTANT!

• Continued use with low batteries may cause power to turn off suddenly. This can cause stored data to be corrupted or lost.

Preparing the Music Stand

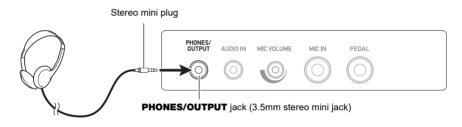
Insert the music stand legs into the back of the Digital Keyboard.



Connecting Headphones (Option)

Plugging in headphones cuts off output from the built-in speakers, which means you can practice playing even late at night without disturbing others.

• Be sure to turn down the volume level before connecting headphones.



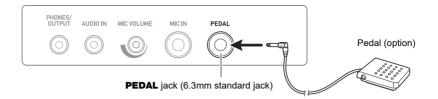
- Headphones do not come with this Digital Keyboard.
- Use the optional (CP-16) or a commercially available headphones.
- The surround effect is not applied while you are listening over headphones.

N IMPORTANT!

- Do not listen to output over headphones at very high volume levels for long periods. Doing so creates the risk of hearing damage.
- The headphones you use must have a 3.5mm 3-pole stereo mini plug. Use of other types of plugs is not supported.
- If the plug of the headphones does not match the **PHONES/OUTPUT** jack, use a commercially available adaptor plug.
- If you are using headphones that require an adaptor plug, make sure you do not leave the adaptor plugged in when removing the headphones.

Connecting a Pedal (Option)

To use a pedal, connect it to the **PEDAL** jack on the back of the Digital Keyboard.

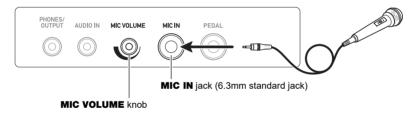


- A pedal unit does not come with this Digital Keyboard.
- Use the optional (SP-3, SP-20) pedal.

Connecting a Commercially Available Microphone

Connect a commercially available dynamic microphone to the MIC IN jack.

• Before connecting, rotate the **MIC VOLUME** knob to its lowest setting.



N IMPORTANT!

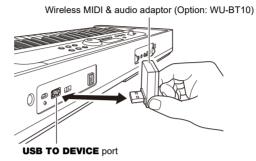
- Before connecting a microphone, make sure that the Digital Keyboard and microphone are turned off.
- It takes a few seconds for the microphone to become enabled after you turn on the Digital Keyboard.

Connecting the Wireless MIDI & audio adaptor (Option)

To pair this Digital Keyboard with a Bluetooth capable external device, you need to plug the Wireless MIDI & audio adaptor into the Digital Keyboard's **USB TO DEVICE** port.

N IMPORTANT!

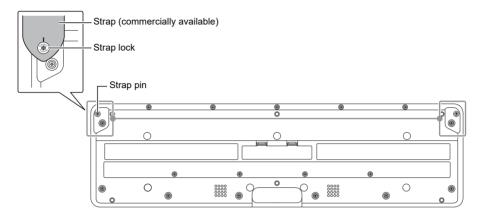
• Turn off this Digital Keyboard before connecting the Wireless MIDI & audio adaptor.



- The Wireless MIDI & audio adaptor does not come with this Digital Keyboard.
- When connecting with a Bluetooth capable external device, refer to "Sounding a Bluetooth Audio Capable Device (Bluetooth Audio Pairing)" (page EN-170).
- The Wireless MIDI & audio adaptor may not be sold in certain countries or geographic areas.

Attaching a Strap (Commercially Available)

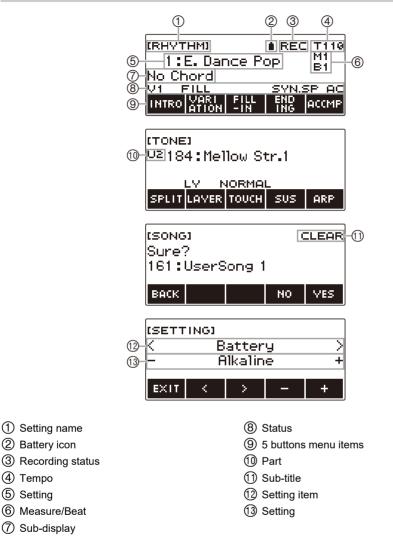
- **1** Attach a strap (commercially available) to the left and right strap pins on the bottom of the Digital Keyboard.
- **2.** Cover the strap pins with the strap locks.



N IMPORTANT!

- After attaching the strap, check to make sure that the strap is securely attached to the Digital Keyboard.
- Do not pick up the Digital Keyboard by the strap alone. Doing so creates the risk of the Digital Keyboard detaching from the strap and falling.
- The recessed area on the bottom of the Digital Keyboard IS NOT intended to be used as a handle. Be sure to use both hands when picking up the Digital Keyboard.
- Should a strap lock ever become deformed or damaged, replace it.

Display Screen Contents



- Display contents may become difficult to read at certain viewing angles.
- For information about how to adjust display contrast, see "Configuring Settings" (page EN-146).

Home Screen

номе

Pressing **HOME** causes [TONE] to appear on the screen, which indicates the tone setting screen. This is the Home Screen. You can use the Home Screen to select the instrument tone you want to use, and to configure various settings.



• You can customize the Home Screen to suit your specific needs. For details, see "Customizing the Home Screen (Home Customization)" (page EN-142).

5 buttons

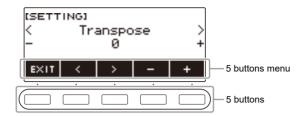
Operations assigned to the 5 buttons along the bottom of the display change according to the setting you are configuring. Operations currently assigned to the display buttons are indicated by labels above the buttons (5 buttons menu).

5 buttons Examples

■ Home Screen (Tone Selection Screen)



Setting Screen (SETTING)



- Long-pressing or + when selecting a number or value scrolls through settings at high speed.
- To return a number or value to its initial default or recommended setting, press and + at the same time.
- Long-pressing < or > when changing to another item or page scrolls through items or pages at high speed.

Changing the Button Long-press Time

You can specify the required button long-press time.

• Note that you cannot change the required long-press time for the power off operation.

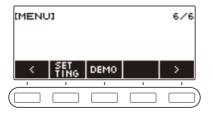
1. Press MENU.

This displays the menu screen.



IMENU	D C			1/6
<	EXIT	MV	KARA OKE	>

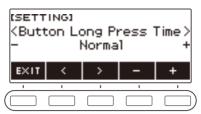
2. Use < and > to select the 5 buttons menu that includes SETTING.



3. Press SETTING.

This displays the setting screen.

4. Use < and > to select "Button Long Press Time".



5. Rotate the dial or use – and + to change the button long-press time value.

Setting	Display Name
Short	Short
Normal	Normal
Long	Long

6. To exit the setting operation, press EXIT.

Dial Operations

Rotate the dial to change a number (tone number, etc.) or value (tempo value, etc.)



Selecting a Function from a Menu

You can use the menu screen to select from a variety of different functions.

1. Press **MENU**.

This displays the menu screen.





2. Use < and > to select the 5 buttons menu that includes the function you want to select.

• To return to the previous screen or exit the setting operation, press EXIT.

Menu Item List

Item	Display Name
MY SETUP	MY SETUP
Karaoke	KARAOKE
Metronome	METRONOME
Balance	BALANCE
Octave shift	OCT SHIFT
Sustain	SUSTAIN
Pedal	PEDAL
Chord Book	CHORD BOOK
System Effects	SYS FX
Equalizer	EQ
Scale Tuning	SCALE
Bluetooth	BLUETOOTH

ltem	Display Name
Media	MEDIA
Home Customization	HOME CSTM
Setting	SETTING
Demo	DEMO

3. Press the button of the function you want to select.

- This displays the screen of the function you select.
- To exit the menu screen, press MENU, or press EXIT on the first page of the menu screen.

Disabling Keyboard Lighting

Keyboard Lighting causes keyboard keys to light in accordance with the notes of your performance, built-in song playback, etc. You can disable Keyboard Lighting if you want.

1. Press **MENU**.

This displays the menu screen.

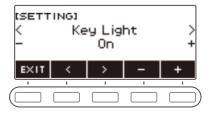
2. Use < and > to select the 5 buttons menu that includes SETTING.

3. Press SETTING.

This displays the setting screen.



4. Use < and > to select "Key Light".



- 5. Rotate the dial or use and + to select "Off".
- 6. To exit the setting operation, press EXIT.

Inputting Characters

Use the procedures below to edit MY SETUP data names and USB flash drive file names (user data names).



- USB flash drive (page EN-155) file names can be up to 231 characters long.
- Up to 22 characters can appear on the display at a time. If you input more than 22 characters, the display will scroll horizontally, and a numeric page indicator (such as 1/11) will appear on the display.



• A file with a name that begins with "." or " " (blank space) cannot be saved.

Inserting Characters

1 Use < and > to move the cursor to the right of the location where you want to insert a character.

2. Press INSERT.

This inserts "A".

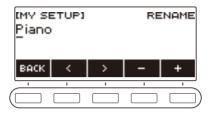
• If you positioned the cursor to the right of the end of a character string, you can also rotate the dial or use – and + to insert characters.

Replacing a Character with a Different One

1 Ise < and > to move the cursor to the character you want to replace.

2. Rotate the dial to change the character.

This displays the -/+ screen.



- After you rotate the dial once to select a character, you can change the selection further using and +.
- To go back to the previous screen, press BACK.
- Repeat steps 1 and 2 as required.
- The characters shown in the table below are supported for USB flash drive file names.

	!	#	\$	%	&	'	()	+	,	_	
0	1	2	3	4	5	6	7	8	9	;	=	@
Α	В	С	D	Е	F	G	Н	Ι	J	Κ	L	М
Ν	0	Ρ	Q	R	S	Т	U	V	W	Х	Υ	Ζ
[]	۸	_	`	а	b	С	d	е	f	g	h
i	j	k	I	m	n	0	р	q	r	s	t	u
V	w	х	у	z	{	}	1					

(First cell in the above table is blank.)

• The characters shown in the table below are supported for file names on a FAT 32 formatted USB flash drive.

\$	&	'	()	_	0	1	2	3	4	5	6
7	8	9	@	А	В	С	D	Е	F	G	Н	Ι
J	Κ	L	М	Ν	0	Ρ	Q	R	S	Т	U	V
W	Х	Υ	Ζ	۸	_	`	{	}	~			

• The characters shown in the table below are supported for user data (MY SETUP) names.

	!	"	#	\$	%	&	'	()	*	+	,
-		/	0	1	2	3	4	5	6	7	8	9
:	;	<	>	=	?	@	Α	В	С	D	Е	F
G	Н	Ι	J	Κ	L	Μ	Ν	0	Ρ	Q	R	S
Т	U	V	W	Х	Υ	Ζ	[]	١	۸	_	`
а	b	С	d	е	f	g	h	i	j	k	I	m
n	0	р	q	r	s	t	u	v	w	х	у	Z
{	}											

(First cell in the above table is blank.)

Deleting a Character

1 Use < and > to move the cursor to the character you want to delete.

2. Press DELETE.

Exiting a Character Delete or Edit Operation

Perform the step below after you are finished editing characters.

1. Press CONFIRM.

This displays a confirmation screen for the character string you edited.

- Next, the message "Cancel?" appears in the following cases.
 - If the current user data or file name has not been changed.
 - If the user data or file name does not contain any characters (0 character count)

(MV S Canc	ETUPI el?	RENAME		
васк			NO	VES
	1	I	1	

- To exit character string editing, press YES.
- To continue with character string editing, press NO or BACK to return to the character string editing screen.

Playing on the Keyboard

Turning Power On or Off

1 ₌ Press 🛈 (Power) to turn on Digital Keyboard power.

The Digital Keyboard becomes operational after a few seconds.



2. To turn off power, long-press 0 (Power) until the display goes blank.

N IMPORTANT!

- Turning off power normally causes the tone and rhythm number and other settings to return to their initial defaults. However, the settings below are remembered.
 - MIDI OUT Channel (Upper1, Upper2, Lower)
 - MIDI In Navigate
 - MIDI In Navigate Channel (Left hand, right hand)
 - Bluetooth
 - Keyboard Lighting
 - MY SETUP power on recall
 - Auto Power Off
 - Power-On Alert
 - Battery type
 - Display contrast
 - Button long-press time

- Pressing the U (Power) to turn off power actually puts the Digital Keyboard into a standby state. Minute amounts of current continue to flow within the Digital Keyboard in the standby state. If you do not plan to use the Digital Keyboard for a long time or if there is a lightning storm in your area, be sure to unplug the AC adaptor from the power outlet.
- You can configure Digital Keyboard settings so MY SETUP settings are recalled whenever power is turned on. See "Enabling MY SETUP Power On Recall" (page EN-67).

Auto Power Off

While Auto Power Off is enabled, power turns off automatically after about 30 minutes of non-operation.

NOTE

• Auto Power Off is disabled while a song is playing and while the APP function is being used.

■ Disabling Auto Power Off

You can disable Auto Power Off to ensure that power does not turn off automatically during a concert, etc.

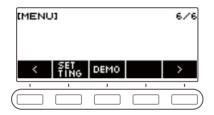
1. Press MENU.

This displays the menu screen.



IMENU	n			1/6
		MV	KORO	

2. Use < and > to select the 5 buttons menu that includes SETTING.

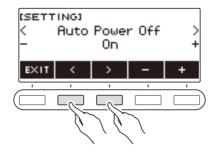


3. Press SETTING.

This displays the setting screen.

-	<pre>< Transpose - 0</pre>						
EXIT	<	>	-	+			

4. Use < and > to select "Auto Power Off".



- 5. Rotate the dial or use and + to select "Off".
- **6.** To exit the setting operation, press EXIT.

Power-On Alert

Keyboard keys light to remind you that power is on if you do not perform any operation for about six minutes.

• Power-On Alert is disabled while a song is playing and while the APP function is being used.

Disabling Power-On Alert

You can disable Power-On Alert to ensure that keyboard keys do not light during a concert, etc.

1. Press **MENU**.

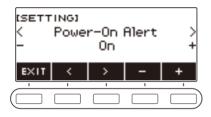
This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SETTING.

3. Press SETTING.

This displays the setting screen.

4. Use < and > to select "Power-On Alert".



- 5. Rotate the dial or use and + to select "Off".
- 6. To exit the setting operation, press EXIT.

Adjusting the Volume Level

1 Rotate the **VOLUME** knob.

This changes the volume level.



Using the Metronome

The metronome lets you play and practice along with a steady beat to help keep you on tempo. You can also set a tempo that is suitable for your practice.

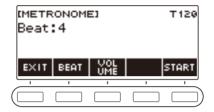
Start/Stop

1 . Press HOME.

This displays the Home Screen.

2. Press METRONOME.

This displays the metronome screen.

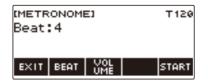


3. Press START.

This starts the metronome, and displays measure and beat numbers.

иметя Beat	комомі :4	EJ		T120 M1 B1
EXIT	BEAT	VOL UME		STOP
<u> </u>	1	1	1	

4. To stop the metronome, press the STOP.



NOTE

- On the Home Screen, you can also press ►/■ to start the metronome. Pressing ►/■ does not start the metronome if you are using the rhythm function or SONG function.
- The metronome is disabled while a song, lesson, or karaoke song is playing. Trying to display the metronome screen causes "CANNOT USE" to be displayed momentarily.

(MENU)	2/6
CANNOT USE	
METRO BAL OCT NOME ANCE SHIFT	>

- Depending on Home Customization settings, the **METRONOME** button may not be shown on the display.
- You can also display the metronome screen from the menu screen.

Changing the Metronome Tempo

Use the procedure below to change the tempo of the metronome.

1. Press **TEMPO**.

This displays the tempo screen.



(темро) 120		
EXIT TAP TEMPO	-	+

- 2. Rotate the dial or use and + to change the tempo value.
 - You can specify a tempo value in the range of 20 to 255.
 - To return the setting to its initial default, press and + at the same time.
- **3.** To exit the setting operation, press EXIT.

Specifying the Metronome Beats Per Measure

You can use the procedure below to configure a setting that sounds a chime on the first beat of each measure, and a click for the remaining beats.

• Available settings are Off, or a value of 1 to 16 beats.

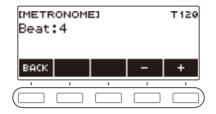
1. Press HOME.

This displays the Home Screen.

2. Press METRONOME.

This displays the metronome screen.

3. Rotate the dial to change the beat value.



- After you rotate the dial once to select a value, you can change the value further using and +.
- Selecting "Off" disables the chime. Use this setting when you want to practice without worrying about the first beat of each measure.
- To return the setting to its initial default, press and + at the same time.
- · To go back to the previous screen, press BACK.

Changing the Metronome Sound Volume Level

1. Press HOME.

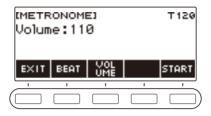
This displays the Home Screen.

2. Press METRONOME.

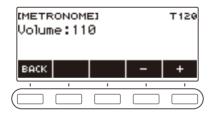
This displays the metronome screen.

3. Press the VOLUME 5 buttons.

This displays the metronome volume level setting screen.



4 Rotate the dial to adjust the volume level.



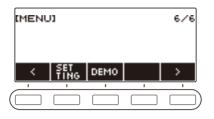
- You can specify a volume level value from 0 to 127.
- After you rotate the dial once to select a value, you can change the selection further using and +.
- To return the setting to its initial default, press and + at the same time.
- To go back to the previous screen, press BACK.
- To return to the beat setting screen, press BEAT.

Changing the Depth of Microphone Reverb (MIC Reverb)

1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SETTING.



3. Press SETTING.

This displays the setting screen.



4. Use < and > to select "MIC Reverb".

5. Rotate the dial or use – and + to change the reverb value.

- You can specify a reverb value in the range of 0 to 127.
- To return the setting to its initial default, press and + at the same time.

6. To exit the setting operation, press EXIT.



• The microphone reverb setting is ignored while you are using the karaoke function.

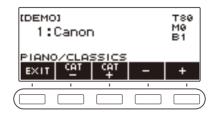
Listening to Demo Play

1. Press HOME.

This displays the Home Screen.

2. Press DEMO.

This displays the demo screen and starts demo song play.



- After playback of one song finishes, playback of the next song starts automatically. Playback returns to the first song after playback of the final song is complete.
 The DEMO function plays SONG function song 9 "CANON (PACHELBEL)" first. After that, it plays SONG function songs 1 through 8, and then 10 through 110.
- For a list of song titles, see the "Song List" (page EN-185).
- The tone of the currently playing demo song is assigned to the keyboard during playback.

3. To select a song for demo play, rotate the dial or use – and +.

• If you want to select a category, use CAT-/CAT+.

4. To stop playback, press EXIT or ▶/■.

• This stops playback and exits the demo screen.

NOTE

- Depending on Home Customization settings, the DEMO button may not be shown on the display.
- You can also display the demo screen from the menu screen.
- Keyboard Lighting is disabled during demo play.

Controlling the Sound of a Performance

Selecting a Musical Instrument Tone

Your Digital Keyboard lets you select tones for a wide variety of musical instrument sounds, including violin, flute, and more. The same song can sound completely different when played with a different instrument type.

Selecting a Tone

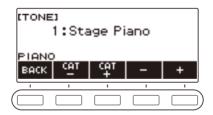
1. Press TONE.

This displays the tone screen, which shows the tone number and tone name.



2. Rotate the dial to select a tone.

- For tone information, see the "Tone List" (page EN-187).
- After you rotate the dial once to select a tone, you can change the selection further using and +.
- To return to the first tone in the Tone List, press and + at the same time.
- If you want to select a category, use CAT-/CAT+.
- To go back to the previous screen, press BACK.



Playing with Touch Response

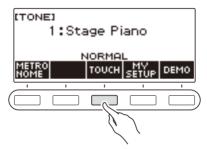
Touch Response alters tone volume in accordance with keyboard pressure (press velocity). This provides you some of the same expression capabilities you get on an acoustic piano.

Changing Touch Response Sensitivity

1. Press HOME.

This displays the Home Screen.

2. Press TOUCH and then select the Touch Response setting you want.



Touch Response settings are described in the table below.

Setting (Display Text)	Description
Off (OFF)	Keyboard pressure does not affect volume.
Light (LIGHT)	Easier to produce a louder sound than the Normal setting, for a lighter feel.
Normal (NORMAL)	Normal Touch Response.
Heavy (HEAVY)	More difficult to produce a louder sound, for a heavier feel.

NOTE

• Depending on Home Customization settings, the TOUCH button may not be shown on the display.

• You can also access touch response settings from the tone screen.

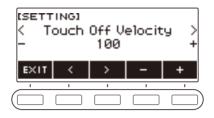
■ Adjusting Volume When Touch Response is Disabled (Touch off Velocity)

1. Press HOME.

This displays the Home Screen.

2. Long-press TOUCH.

This displays the setting screen, which shows setting items for touch off velocity.



- **3.** Rotate the dial or use and + to change the setting.
- **4.** To exit the setting operation, press EXIT.

Using a Pedal

A pedal can be used to change notes while playing. Under initial default settings, pedal sustain is assigned to the pedal, so it can be used as a damper pedal.

A pedal unit does not come with this Digital Keyboard. Purchase one separately from your retailer.

Changing Pedal Functions

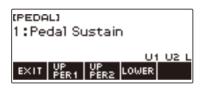
1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes PEDAL.

3. Press PEDAL.

This displays the pedal screen.



4. Rotate the dial to change the pedal function.

The following shows available pedal functions.

Setting (Display Text)	Description
Pedal Sustain (Pedal Sustain)	Playing notes while the pedal is depressed causes the notes to be sustained, even if the keyboard keys are released.
Sostenuto (Sostenuto)	Playing notes and then pressing the pedal before the keyboard keys are released causes the notes to be sustained.
Soft (Soft)	Pressing the pedal and playing notes causes the notes to be slightly softened.
Start/Stop (Start/Stop)	The pedal has the same functions as $\blacktriangleright/\blacksquare$. It can be used to start and stop the metronome or rhythm play.
Fill-in (Fill-In)	Plays a fill-in (page EN-107) when the pedal is depressed while an Auto Accompaniment is playing.

 After you rotate the dial once to select a function, you can change the selection further using – and +.

- To return the setting to its initial default, press and + at the same time.
- To go back to the previous screen, press BACK.

5. To exit the setting operation, press EXIT.

Disabling the Pedal Effect for Individual Parts

1. Press **MENU**.

This displays the menu screen.

${f 2}_{f s}$ Use < and > to select the 5 buttons menu that includes PEDAL.

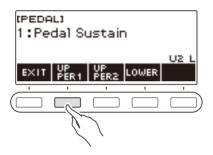
3. Press PEDAL.

This displays the pedal screen.



4. Press UPPER1.

• "U1" disappears from the display, indicating that the pedal effect is no longer applied to the UPPER1 part.



5. To apply the pedal effect to the UPPER1 part, press UPPER1 again.

• In the same way, you can stop the pedal effect from being applied to the UPPER2 part by pressing UPPER2, and to the LOWER part by pressing LOWER. Pressing UPPER2 causes "U2" to disappear from the display. Pressing LOWER causes "L" to disappear.

6. To exit the setting operation, press EXIT.

• For information about parts, see "Layering and Splitting Tones" (page EN-47).

Sustaining Notes After Keyboard Keys Are Released

While sustain is enabled, notes are sustained longer when keyboard keys are released.

1. Press **TONE**.

This displays the tone screen.



2. Press SUS.

This displays "SUS".

(TONE) 1:Stage Piano				
SPLIT	N LAVER	IORMA TOUCH		

3. Press and release keyboard keys.

The notes are sustained for a relatively long time.

4. To disable sustain, press SUS again.

■ Adjusting the Note Sustain Time

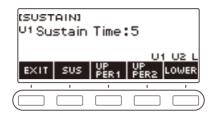
Use the procedure below to change the sustain time when sustain is enabled.

1. Press **TONE**.

This displays the tone screen.

2. Long-press SUS.

This displays the sustain screen, which shows setting items for the UPPER1 part sustain time.



- **3.** If required, press UPPER1, UPPER2, and LOWER to select the part whose setting you want to configure.
- **4**. Rotate the dial to change the setting.

tsust Ut Su	raini Istain	Time:	:5	
			U1	U2 L
BACK			-	+
<u> </u>	I	I	I	

- You can set a sustain time within the range of 0 to 9.
- After you rotate the dial once to select a value, you can change the value further using and +.
- To return the setting to its initial default, press and + at the same time.
- To go back to the previous screen, press BACK.
- Setting a value of "0" causes the indicator for the applicable part ("U1", "U2", "L") to disappear from the display.

ISUSTAIN ^{U1} Susta	:0	
васк		U2 L
BACK	-	+

5. To exit the setting operation, press EXIT.

- You can also display the sustain screen by pressing **MENU** and then SUSTAIN.
- For details about parts, see "Layering and Splitting Tones" (page EN-47).

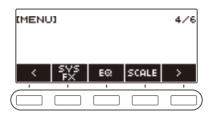
Playing with Reverb

You can use the procedure below to add reverb to the notes you play.

1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SYS FX.



3. Press SYS FX.

This displays the system effect screen.



4. Rotate the dial to select the reverb type.

The following shows the available reverb type settings.

Reverb Type	Display Name
Off	Off
Room 1 to 5	Room 1 to 5
Large Room 1 or 2	Large Room 1 or 2
Hall 1 to 5	Hall 1 to 5
Stadium 1 to 2	Stadium 1 or 2
Plate 1 or 2	Plate 1 or 2
Delay 1 or 2	Delay 1 or 2
Church	Church
Cathedral	Cathedral

- After you rotate the dial once to select a reverb type, you can change the selection further using - and +.

• To return the setting to its initial default, press – and + at the same time.

• To go back to the previous screen, press BACK.

5. To exit the setting operation, press EXIT.

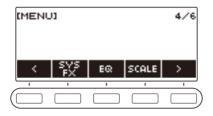
Changing the Relationship of Keyboard and Song Reverb Effects

You can use this procedure to sync the reverb effect of keyboard play and built-in song playback so they do not clash with each other.

1. Press MENU.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SYS FX.



3. Press SYS FX.

This displays the system effect screen.



4. Press SONG REV to change the setting.

Available settings are shown in the table below.

Setting (Display Text)	Description
Synchronize (SYNC)	When a reverb setting is configured for the keyboard, the same reverb effect is also applied to songs. Conversely, any change in the reverb effect of a song is also applied to the keyboard reverb.
Keyboard reverb priority (FORCE KEYBOARD)	Song reverb effects are always the same as those of the keyboard reverb settings.
No effect (NOT AFFECT)	There is no change in keyboard reverb settings based on song reverb.

Adding the Chorus Effect to a Tone

Chorus is a function that adds depth and breadth to notes.

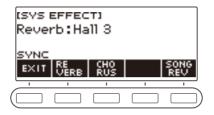
1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SYS FX.

3. Press SYS FX.

This displays the system effect screen.



4. Press CHORUS.

	EFFEC US:To			
EXIT	RE VERB	CHO RUS		_
		R	$\overline{)}$	

5. Rotate the dial to select the chorus type.

Available chorus type settings are shown in the table below.

Setting	Display Name
Chorus setting recommended for each tone	Tone
Chorus 1 to 6	Chorus 1 to 6
Flanger 1 to 4	Flanger 1 to 4

 After you rotate the dial once to select a chorus type, you can change the selection further using – and +.

- To return the setting to its initial default, press and + at the same time.
- To go back to the previous screen, press BACK.
- To return to the Reverb screen, press REVERB.
- **6.** To exit the setting operation, press EXIT.

EN-45

Playing with a More Expanded Sound (Surround)

Enabling surround creates a virtual surround effect.

1. Press SURROUND.

- This enables surround.
- This causes the **SURROUND** LED to light.



• You can also enable surround from the setting screen.

2. To disable surround, press SURROUND again.

• This causes the **SURROUND** LED to go out.



- The surround effect is not applied while you are listening over headphones.
- · Connecting headphones disables the surround effect.

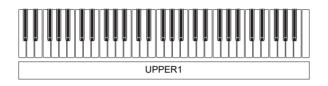
Layering and Splitting Tones

You can configure the keyboard to play two different tones at the same time (Layer) or to play different tones in the left and right ranges (Split). You can even use Layer and Split in combination with each other and play three different tones at the same time.

The part that is used when playing a single tone is called the UPPER1 part. If you layer two parts, the layered part is the UPPER2 part. If the keyboard is split between two tones, the low-range part is called the LOWER part.

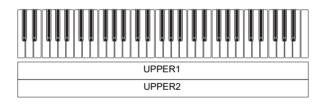
• Sounding a single tone across the entire keyboard (page EN-35)

With this configuration, only the UPPER1 part is used (Layer: Off, Split: Off).



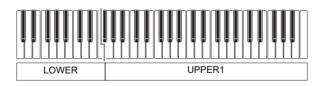
• Layering two tones across the entire keyboard (page EN-49)

With this configuration, the UPPER1 and UPPER2 parts are both used (Layer: On, Split: Off).



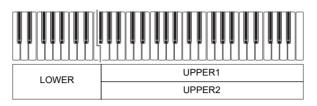
• Splitting the keyboard into two ranges (left, right), and assigning different tones to each range (page EN-50)

With this configuration, the UPPER1 part and LOWER part are both used (Layer: Off, Split: On).



• Splitting the keyboard into two ranges (left, right), and assigning two layered tones to the right side and a single tone to the left side (pages EN-49, EN-50)

With this configuration, the UPPER1, UPPER2, and LOWER parts are all used (Layer: On, Split: On).



NOTE

- Changing the tone setting affects the UPPER2 part when layer is turned on, and the LOWER part when split is turned on.
- While you are using split and layer together, you can select the tone of the keyboard's LOWER part.

Layering Two Tones

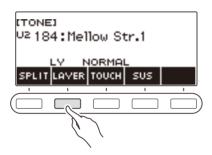
1. Press TONE.

This displays the tone screen.



2. Press LAYER.

This displays "U2" to the left of the tone number and "LY" below it. "U2" is short for the UPPER2 part.



$\mathbf{3}_{I\!\!I}$ Rotate the dial to select the layer tone.

- For tone information, see the "Tone List" (page EN-187).
- After you rotate the dial once to select a tone, you can change the selection further using and +.
- To return to the first tone in the Tone List, press and + at the same time.
- If you want to select a category, use CAT-/CAT+.
- To go back to the previous screen, press BACK.

4. Play something on the keyboard.

This layers the tone you select here on the tone you selected in step 3.

· Pressing LAYER again turns layering off.

Splitting the Keyboard Between Two Different Tones

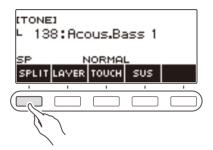
1. Press TONE.

This displays the tone screen.



2. Press SPLIT.

This displays "L" to the left of the tone number and "SP" below it. "L" indicates the LOWER part.

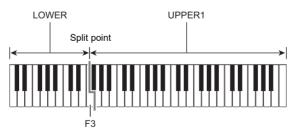


3. Rotate the dial to select the tone to be assigned to the low range keyboard.

- For tone information, see the "Tone List" (page EN-187).
- After you rotate the dial once to select a tone, you can change the selection further using and +.
- To return to the first tone in the Tone List, press and + at the same time.
- If you want to select a category, use CAT-/CAT+.
- To go back to the previous screen, press BACK.

4. Play something on the low range of the keyboard.

This sounds the selected tone.



• To turn off split, press SPLIT again.

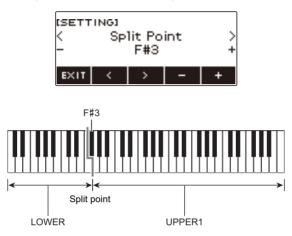
Changing the Split Point

1. Press **TONE**.

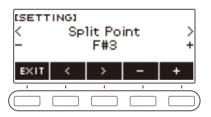
This displays the tone screen.

2. Long-press SPLIT.

This displays the setting screen, which shows setting items for the split point.



3. Rotate the dial or use – and + to specify the split point.



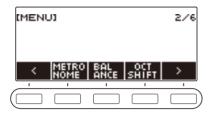
4. To exit the setting operation, press EXIT.

Changing the Volume Balance Between Keyboard Play and Rhythm Play (Balance)

1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes BALANCE.



3. Press BALANCE.

This displays the balance screen, which shows volume level setting items for the UPPER1 part.



- 4. Press UPPER1, UPPER2, LOWER, or RHYTHM as required to select the item whose volume level you want to adjust.
- **5**. Rotate the dial to change the setting value.
 - This displays the -/+ screen.



- You can specify a value in the range of 0 to 127.
- After you rotate the dial once to select a setting, you can change the setting further using and +.
- To go back to the previous screen, press BACK.

6. To exit the setting operation, press EXIT.

• You can also change the rhythm volume level using the procedure under "Changing the Volume Level of a Rhythm" (page EN-100).

Changing the Pitch in Octave Units (Octave Shift)

You can use the procedure below to raise or lower pitch in octave units.

Shifting the Pitch of the UPPER Tone in Octave Units (Upper Octave Shift)

You can use the procedure below to raise or lower the pitch of the UPPER part in octave units.

1. Press TONE.

This displays the tone screen.

2. Long-press LAYER.

This displays the octave shift screen, which shows setting items for the upper octave shift.



3. Rotate the dial to change the shift amount.

- You can specify a value in the range of -3 to +3 octaves.
- After you rotate the dial once to select a shift amount, you can change the shift amount further using and +.
- To return the setting to its initial default, press and + at the same time.
- To go back to the previous screen, press BACK.

4. To exit the setting operation, press EXIT.

NOTE

• You can also display the octave shift screen by pressing **MENU** and then OCT SHIFT.

Changing the Pitch of Each Part in Octave Units (Part Octave Shift)

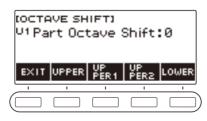
1. Press TONE.

This displays the tone screen.

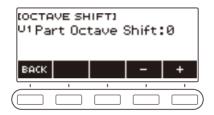
2. Long-press LAYER.

This displays the octave shift screen.

3. Press the button that corresponds to the part whose pitch you want to change.



4. Rotate the dial to change the shift amount.



- You can specify a value in the range of -3 to +3 octaves.
- After you rotate the dial once to select a shift amount, you can further change the shift amount using the – and +.
- To return the setting to its initial default, press and + at the same time.
- To go back to the previous screen, press BACK.

5. To exit the setting operation, press EXIT.

- If you changed the tone of the part you selected in step 4 of this procedure, the part octave shift value is the recommended value of the newly selected tone. For information about tone recommended values, see the "Tone List" (page EN-187).
- You can also display the octave shift screen by pressing **MENU** and then OCT SHIFT.

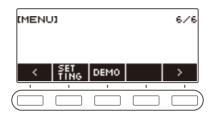
Changing the Pitch in Semitone Units (Transpose)

You can use the procedure below to raise the overall pitch in semitone steps. You can use this feature to raise or lower the key of the keyboard to make it easier to play a piece written in a difficult key, or to adjust to a key that better matches a vocalist, or another musical instrument.

1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SETTING.



3. Press SETTING.

This displays the setting screen.

(SETT < -		anspo Ø	se	>+
EXIT	<	>	-	+

4. Use < and > to select "Transpose".

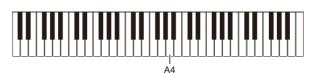
5. Rotate the dial or use – and + to change the setting.

- The setting range is from one octave up (+12 semitones) to one octave down (-12 semitones).
- To return the setting to its initial default, press and + at the same time.

6. To exit the setting operation, press EXIT.

Fine Tuning (Tuning)

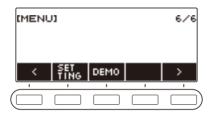
You can use the procedure below to adjust the overall pitch by changing the frequency of A4. (0.1Hz units)



1. Press MENU.

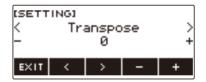
This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SETTING.



3. Press SETTING.

This displays the setting screen.



4. Use < and > to select "Tuning".

5. Rotate the dial or use – and + to adjust the tuning.

- You can specify a frequency in the range of 415.5 to 465.9 Hz.
- To return the setting to its initial default, press and + at the same time.
- **6.** To exit the setting operation, press EXIT.

Changing the Keyboard Scale Tuning

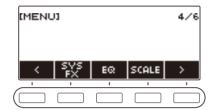
You can change the scale tuning of the keyboard from the standard equal temperament to another tuning that is more suitable for playing Indian music, Arabic music, classical music, etc. You can select from among 17 preset scale tunings.

■ Changing the Scale Tuning

1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SCALE.



3. Press SCALE.

This displays the scale tuning screen.

ISCAL Type		al		
EXIT	TVPE		IANO S AC SCALE	STRCH PIANO STRCH

4. Rotate the dial to select the scale.

Scale settings you can select are shown in the table below.

Setting (Displayed Setting Name)	Scale Tuning Name
Equal	Equal temperament
Pure Major	Just major intonation
Pure Minor	Just minor intonation
Pythagorean	Pythagorean tuning
Kirnberger 3	Kirnberger III
Werckmeister	Werckmeister 1-3(III)
Mean-Tone	Mean-tone tuning
Rast	Rast
Bayati	Bayati
Hijaz	Hijaz
Saba	Saba
Dashti	Dashti
Chahargah	Chahargah
Segah	Segah
Gurjari Todi	Gurjari Todi
Chandrakauns	Chandrakauns
Charukeshi	Charukeshi

• After you rotate the dial once to select a scale, you can change the selection further using - and +.

• To return the setting to its initial default, press – and + at the same time.

• To go back to the previous screen, press BACK.

5. To exit the setting operation, press EXIT.

■ Specifying the Base Note of the Scale Tuning

1. Press MENU.

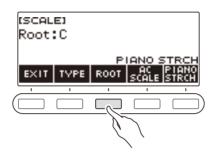
This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SCALE.

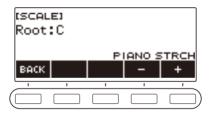
3. Press SCALE.

This displays the scale tuning screen.

4. Press ROOT.



5. Rotate the dial to change the setting.



- You can specify a base note in the range of C to B.
- After you rotate the dial once to select a setting, you can change the selection further using and +.
- To return the setting to its initial default, press and + at the same time.
- To go back to the previous screen, press BACK.

6. To exit the setting operation, press EXIT.

■ Reflecting the Scale Setting in the Rhythm Accompaniment as Well

1. Press **MENU**.

This displays the menu screen.

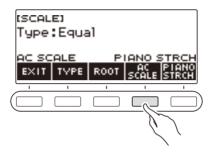
2. Use < and > to select the 5 buttons menu that includes SCALE.

3. Press SCALE.

This displays the scale tuning screen.

4. Press AC SCALE.

This displays "AC SCALE", and reflects the scale setting in rhythm accompaniment as well.



- **5.** To cancel the scale setting for rhythm accompaniment, press AC SCALE again. This causes "AC SCALE" to disappear from the display.
- **6**. To exit the setting operation, press EXIT.

■ Disabling Piano Stretch Tuning

Stretch tuning makes high notes relatively higher and low notes relatively lower than equal temperament tuning for a wider frequency differential between high and low notes.

1. Press MENU.

This displays the menu screen.

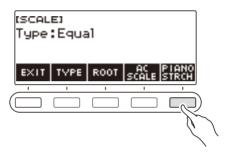
2. Use < and > to select the 5 buttons menu that includes SCALE.

3. Press SCALE.

This displays the scale tuning screen.

4. Press PIANO STRCH.

"PIANO STRCH" disappears from the display and piano stretch tuning is disabled.



- **5.** To enable piano stretch tuning, press PIANO STRCH again. This displays "PIANO STRCH".
- **6**. To exit the setting operation, press EXIT.

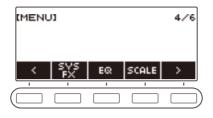
Using the Equalizer

You can use the equalizer to configure settings that boost or cut specific frequency components.

1. Press **MENU**.

This displays the menu screen.

2. Use \leq and > to select the 5 buttons menu that includes EQ.



3. Press EQ.

This displays the equalizer screen.



4. Rotate the dial or use – and + to change the setting.

The table below shows available equalizer settings.

Setting (Display Text)	Description
Standard (Standard)	Standard setting
Loudness (Loudness)	Boosts all ranges.
Treble + (Treble +)	Boosts the high range.
Bass + (Bass +)	Boosts the low range.
Mellow (Mellow)	Produces a mellow sound.
Bright (Bright)	Produces a bright sound.
Rock (Rock)	Produces a sound optimized for rock music.
Jazz (Jazz)	Produces a sound optimized for jazz music.
Dance (Dance)	Produces a sound optimized for dance music.
Classic (Classic)	Produces a sound optimized for classical music.

5. To exit the setting operation, press EXIT.

Saving and Recalling a Setup (MY SETUP)

You can up to four setups (tone, rhythm, and other settings) of the Digital Keyboard. You can recall a saved setup when you need it to perform a particular song, etc.

• Four setups are pre-stored in MY SETUP by default. If you store setups, they replace the pre-stored setups.

Saving to MY SETUP

1. Press **MENU**.

This displays the menu screen.

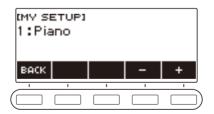
2. Press MY SETUP.

This displays the MY SETUP screen.

נאיז אפדטף: 1:Piano	
EXIT SAVE LOAD AT	>

- You can also display the MY SETUP screen from the Home Screen.
- Depending on Home Customization settings, the MY SETUP button may not be shown on the display.
- 3. Rotate the dial to select the setup number you want to specify as the storage destination.

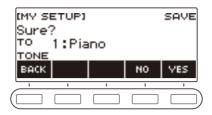
This displays the -/+ screen.



- You can select a setup number from 1 to 4.
- After you rotate the dial once to select a setup number, you can change the selection further using and +.
- · To go back to the previous screen, press BACK.

4. Press SAVE.

This displays "Sure?" The name of the main setting (TONE, RHYTHM, SONG) you are using also appears.



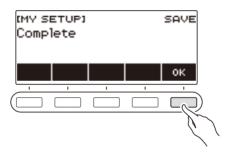
5. Press YES.

This saves the current setup to MY SETUP.

• To cancel, press NO. This returns to the MY SETUP screen at the beginning of the procedure.

6. When "Complete" appears on the display, press OK.

This exits the save operation.



Savable Settings

The settings listed below can be saved with MY SETUP.

- Functions currently in use (TONE, RHYTHM, SONG, LESSON, KARAOKE)
- Tones (UPPER1, UPPER2, LOWER)
- Touch Response
- · Touch off velocity
- Pedal
- Pedal effect part (UPPER1, UPPER2, LOWER)
- Sustain
- Sustain times (UPPER1, UPPER2, LOWER)
- Layer
- Split
- Split point
- Balance (UPPER1, UPPER2, LOWER, Rhythm)
- · Upper octave shift
- Part Octave Shift (UPPER1, UPPER2, LOWER)
- Transpose
- Surround
- Reverb
- Song Reverb
- Chorus
- Equalizer
- · Scale tuning type
- · Scale tuning base note
- Accompaniment scale
- Piano Stretch Tuning
- Tuning
- · Metronome beat
- Metronome volume level
- Tempo
- · Tempo tap start
- MIC Reverb
- AUDIO IN center cancel
- Rhythm (number, pattern, fill, accompaniment, chord mode, Synchro Start, Synchro Stop, volume level, auto setting, operation type)
- Song (number, count, part off, tone sync, volume level, SMF part)
- Lesson (step/EASY Mode/Challenge, Hand, AB setting, fingering guide, note sound guide, evaluation)
- · Karaoke (key, microphone fx, karaoke part)
- Multi-track recording settings (track mute, mixing)
- Recording settings (beat, count, part off, track)
- · Home Customization

Recalling a MY SETUP

1. Press **MENU**.

This displays the menu screen.

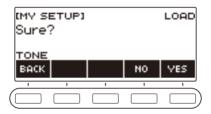
2. Press MY SETUP.

This displays the MY SETUP screen.

3. Rotate the dial to select the setup number you want to recall.

4. Press LOAD.

This displays "Sure?" and the main setting's name (TONE, RHYTHM, SONG, LESSON, KARAOKE) saved to the setup.



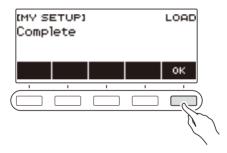
5. Press YES.

This recalls the saved settings.

• To cancel, press NO. This returns to the MY SETUP screen at the beginning of the procedure.

6. When "Complete" appears on the display, press OK.

This exits the recall operation.



Enabling MY SETUP Power On Recall

Use the procedure below to enable MY SETUP power on recall, which causes MY SETUP settings to be recalled whenever power is turned on.

1. Press **MENU**.

This displays the menu screen.

2. Press MY SETUP.

This displays the MY SETUP screen.

3. Rotate the dial to select the setup number you want to recall at startup.

4. Press AT PW-ON.

This specifies that the MY SETUP number you selected in step 3 of this procedure should be recalled and applied when the Digital Keyboard is turned on.



- **5.** To cancel MY SETUP power on recall, select the currently set MY SETUP setup number and then press AT PW-ON again.
- **6**. To exit the setting operation, press EXIT.

Renaming a MY SETUP

1. Press **MENU**.

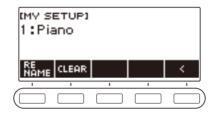
This displays the menu screen.

2. Press MY SETUP.

This displays the MY SETUP screen.

3. Rotate the dial to select the setup number you want to rename.

4. Use > to select the 5 buttons menu that includes RENAME.



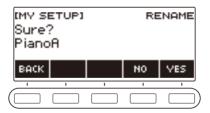
5. Press RENAME.

6. Edit the data name.

• For information about viewing and editing text, see "Inputting Characters" (page EN-22).

7. To confirm the data name, press CONFIRM.

This displays "Sure?".



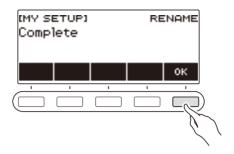
8. Press YES.

This changes the name.

• To return to the data name editing screen, press NO.

9. When "Complete" appears on the display, press OK.

This exits the rename operation.



• A MY SETUP name can have up to 12 characters.

Deleting a MY SETUP

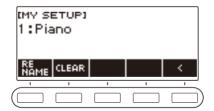
1. Press **MENU**.

This displays the menu screen.

2. Press MY SETUP.

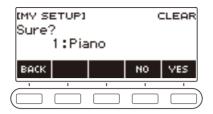
This displays the MY SETUP screen.

- 3. Rotate the dial to select the setup number you want to delete.
- **4.** Use > to select the 5 buttons menu that includes CLEAR.



5. Press CLEAR.

This displays "Sure?".



• You can also delete a MY SETUP by long-pressing MENU.

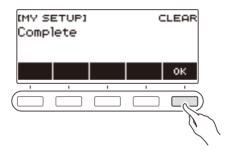
6. Press YES.

This deletes the currently selected MY SETUP.

• To cancel, press NO.

7. When "Complete" appears on the display, press OK.

This exits the MY SETUP delete operation.



Playing a Built-in Song

Songs

With this Digital Keyboard, the term "song" (SONG) is used to refer to a set of musical data (tune, song, performance, etc.) You can use your Digital Keyboard to play or listen to songs, or you can practice playing along with a song as it plays.

Using the SONG Function

1. Press SONG.

This displays the song screen.



ISONGI 1:Fur Elise		T148
PART COUNT	LES SON	

2. To exit the SONG function, press HOME or long-press TONE.

Playing Songs

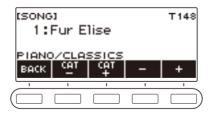
Starting or Stopping Song Play

1. Press SONG.

This displays the song screen.

2. Rotate the dial to select a song.

This displays the category name of the selected song.



- For a list of song titles, see the "Song List" (page EN-185).
- After you rotate the dial once to select a song, you can change the selection further using and +.
- If you want to select a category, use CAT-/CAT+.
- To go back to the previous screen, press BACK.

3. Press ►/■ to start playback.

This displays current measure and beat numbers.

• If the song includes chord information, a chord also appears on the display.





4. To stop playback, press ►/■ again.

- Starting to use the SONG function while the metronome is sounding stops the metronome. Or you can sound a count in time with a song. See "Sounding a Count in Time with a Song" (page EN-79).
- If you don't want the keyboard reverb type to be automatically matched to the recommended reverb type setting of the song you choose, select "NOT AFFECT" for the reverb setting. See "Changing the Relationship of Keyboard and Song Reverb Effects" (page EN-44).
- Keyboard lighting is disabled while song playback is in progress.
- Keyboard lighting is also disabled while a recording (page EN-122) is playing.

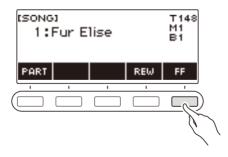
Skip Forward and Skip Back

Use the operations in this section to skip forward and skip back.

Skip Forward

While a song is playing, press FF to skip forward.

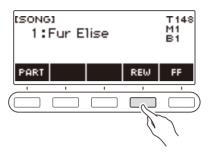
• Pressing FF once skips forward one measure, while long-pressing it skips until the button is released.



Skip Back

While a song is playing, press REW button to skip back.

• Pressing REW once skips back one measure, while long-pressing it skips back until the button is released.



Changing a Song's Tempo (Speed)

You can use the procedure below to change the tempo (speed) for your practice.

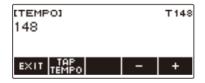
1. Press SONG.

This displays the song screen.

2. Rotate the dial to select the song whose tempo you want to change.

3. Press **TEMPO**.

This displays the tempo screen.



4. Rotate the dial or use – and + to change the tempo value.

- You can specify a tempo value in the range of 20 to 255.
- To return to the recommended setting for the current song, press and + at the same time.

5. To exit the setting operation, press EXIT.

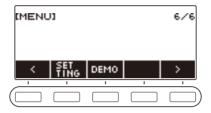
Adjusting the Song Volume Level

Use the procedure below to adjust the balance between the volume levels of song play and what you play on the keyboard.

1. Press MENU.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SETTING.



3. Press SETTING.

This displays the setting screen.



4. Use < and > to select "Song Volume".

5. Rotate the dial or use – and + to change the SONG volume level.

- You can specify a volume value from 0 to 127.
- To return the setting to its initial default, press and + at the same time.

6. To exit the setting operation, press EXIT.

Changing the Keyboard Tone While a Song Playing

1. While a song is playing, press **TONE**.

The selected tone number and instrument name appears on the display.

2. Rotate the dial to select a tone.

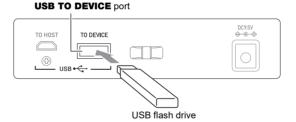
- For tone information, see the "Tone List" (page EN-187).
- After you rotate the dial once to select an option, you can change the selection further using and +.
- To return to the first tone in the Tone List, press and + at the same time.
- To go back to the previous screen, press BACK.



Selecting a Song on a USB Flash Drive

You can use the same operations as those for built-in songs to play back MIDI files* stored in the "MUSICDAT" folder on a USB flash drive. For information about the procedure for saving a MIDI file to a USB flash drive, see "Saving Digital Keyboard Data to a USB Flash Drive" (page EN-156). * Standard MIDI files (SMF format 0/1) and CASIO MIDI files (CMF format)

${f 1}$. Insert the USB flash drive into the Digital Keyboard's USB TO DEVICE port.



When you perform a USB flash drive operation or turn on the Digital Keyboard while a USB flash drive is plugged in, the Digital Keyboard initially needs to perform a "mounting" process to prepare for data exchange with the USB flash drive. Digital Keyboard operations are momentarily disabled while a mounting process is being performed.

- "MOUNTING" is shown on the display while the USB flash drive mounting process is being performed.
- Do not attempt to perform any operation on the Digital Keyboard while a mounting process is in progress.
- After the mounting process is complete, it may take up to 10 or 20 seconds or even longer before you
 can perform any operation on the Digital Keyboard. "LISTING" is shown on the display during this
 period of non-operation.
- The USB flash drive mounting process needs to be performed each time it is connected to the Digital Keyboard.

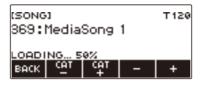
EN-75

2. Rotate the dial to select a song.

• Song numbers are assigned automatically in sequence to MIDI files on the USB flash drive. The files are sorted in file name sequence. The first MIDI file (file name sequence) is assigned song number 369.



• Certain songs can take time to load. During a load operation, the message "LOADING" is displayed along with a progress percentage.



- Only numbers that are allocated to the USB flash drive can be selected.
- Only songs that can be displayed in the USB flash drive song category can be selected.

Matching the Keyboard Tone and Song Tone (Tone Sync)

Use the procedure below to assign the song tone to the keyboard so you can play along.

1. Press **SONG**.

This displays the song screen.

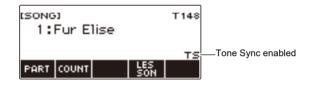
2. Rotate the dial to select a song.

3. Long-press SONG.

This momentarily displays "TONE SYNC ON".



• "TS" is displayed while tone sync is enabled.



4. To disable tone sync, long-press **SONG** again.

This momentarily displays "TONE SYNC OFF".

- Selecting a song while tone sync is enabled automatically changes to the recommended tone setting for the song.
- If there is a tone change within a song, enabling Tone Sync causes the keyboard tone also to change automatically when the playback melody changes.
- The reverb setting is also the one recommended for the song.
- Changing the tone or reverb setting automatically disables tone sync.
- Enabling tone sync automatically causes the upper octave shift setting and the upper1 octave shift setting to become 0.
- Turning on tone sync automatically resets the chorus type to its initial default setting.

Practicing a Song Part (Part Off)

You can turn off the right-hand part or the left-hand part of a song you are playing and practice along with the remaining part. Use this when you feel that a song is initially too difficult for you to play with both hands at the same time.

1 While a song is playing or stopped, press PART.

Each press of PART cycles between the lesson parts.

Setting	Display Name	Description
Normal		Normal playback. Keyboard Lighting shows play of both hand parts.
Right-hand part off	RIGHT OFF	Inserts one blank measure at the beginning of the song and mutes the right-hand part. Keyboard Lighting shows play of the right-hand part.
Left-hand part off	LEFT OFF	Inserts one blank measure at the beginning of the song and mutes the left-hand part. Keyboard Lighting shows play of the left-hand part.
Both off	BOTH OFF	Inserts one blank measure at the beginning of the song, and mutes both hand parts. Keyboard Lighting shows play of both hand parts.

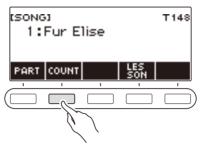
Sounding a Count in Time with a Song

You can configure count settings to sound a count in time with a song and to sound a pre-count before a song starts.

If pre-count is enabled, a pre-count sounds to help you determine when to start playing along.

1. While the song stopped, press COUNT.

This displays a count setting item.



Each press of COUNT changes the setting.

Setting (Displayed Setting Name)	Description	
Off	Count does not sound.	
Count (COUNT)	Inserts one blank measure at the beginning of the song and sounds a count.	
Pre-count (PRECOUNT)	Inserts one blank measure at the beginning of the song and sounds a count for that measure only.	

2. Press $\blacktriangleright / \blacksquare$ to start playback.

If you selected the COUNT option, a count sounds as the song plays.

NOTE

- When PRE-COUNT is selected as the count setting for built-in songs and CMF (CASIO MIDI file) songs, the count sounds for the first measure, and it continues to sound for any rests in the measure after that.
- When COUNT or PRE-COUNT is selected for Tone recordings, Rhythm recordings or Multi-track recordings, a blank measure is not inserted as the first measure.
- When PRE-COUNT is selected as the count setting for SMF (standard MIDI files), tone recordings, rhythm recordings, and multi-track recordings, the count sounds for the rests in the first measure.
- When PRE-COUNT is selected as the count setting for Part-off Recording, the count operation depends on the sound.

Increasing the Selection of Songs (User Songs)

Song data transferred to Digital Keyboard memory using a USB flash drive is saved to Song Bank songs numbered 161 to 360. Such songs can be recalled as user songs for playback. See "Loading Data From a USB Flash Drive to Digital Keyboard Memory" (page EN-158).

CMF (CASIO MIDI files, file name extension CMF) and SMF (standard MIDI files, file name extension MID) can be loaded. Supported formats for SMF songs are 0 and 1.

Specifying a Channel for an SMF User Song Part

1. Press SONG.

This displays the song screen.

- 2. Rotate the dial to select an SMF user song.
- **3.** Press BACK.



4. Press CHANNEL.

This displays channel setting items for the right-hand part.



5. Rotate the dial or use – and + to change the setting.

- You can specify a value from 1 to 16.
- To return the setting to its initial default, press and + at the same time.
- To specify a channel for the left-hand part, press LEFT and then repeat the same operation as above.

Deleting a User Song

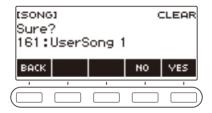
1. Press SONG.

This displays the song screen.

2. Rotate the dial to select the user song you want to delete.

3. Long-press MENU.

This displays "Sure?".



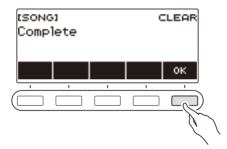
4. Press YES.

This deletes the user song.

• To cancel, press NO.

5. When "Complete" appears on the display, press OK.

This exits the user song delete operation.



Using a Microphone to Sing Along with a Song

The karaoke feature of your Digital Keyboard lowers the volume level of the melody part of Song Bank built-in song, user song, and USB memory song playback so you can sing along using a connected microphone.

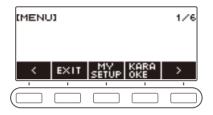
PREPARATION

- For details about how to connect a microphone, see "Connecting a Commercially Available Microphone" (page EN-13).
- Before singing, you can use the **MIC VOLUME** knob on the back of the Digital Keyboard to adjust the microphone volume.

1. Press MENU.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes KARAOKE.



3. Press KARAOKE.

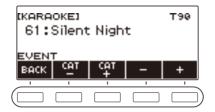
This displays the karaoke screen.



- You can also access the karaoke function by long-pressing the **LESSON** button on the song screen.
- You can also access the karaoke function by displaying the song screen, selecting the song you want to use for karaoke, and then pressing the KARAOKE button. The KARAOKE button is not displayed in the case of a song that cannot be used for karaoke.

4. Rotate the dial to select the song you want to use for karaoke.

• This displays the -/+ screen.

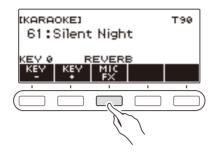


- After you rotate the dial once to select a song, you can change the selection further using and +.
- If you want to select a category, use CAT-/CAT+.
- To go back to the previous screen, press BACK.

5. If you want, use KEY– and KEY+ to change the key of the song.

(KARAOKE) 61:Silent Night			Т90	
KEV 0 KEV	KEV	EVER MIC FX	3	
	-		I	

6. If you want, use MIC FX to change the microphone effect.



Available microphone effect settings are shown in the table below.

Setting	Display Name	Description
Off	FX OFF	No effect applied.
Echo	ECHO	Adds echo to your voice.
Reverb	REVERB	Adds a natural reverb to your voice.
Chorus	CHORUS	Adds depth to your voice.

7. Press ►/■ to start playback.

Use a microphone to sing along with the song.

8. To stop playback, press ▶/■ again.

9. To exit the Karaoke function, press HOME or long-press TONE.

NOTE

- You can use built-in songs, user songs, and USB memory songs for the karaoke function.
- Keyboard Lighting is disabled while karaoke playback is in progress.
- You cannot change system effect settings while singing a karaoke song.

Specifying a Channel for an SMF User Song Karaoke Part

1. Press **MENU**.

This displays the menu screen.

2. Use \leq and > to select the 5 buttons menu that includes KARAOKE.

3. Press KARAOKE.

This displays the karaoke screen.

4. Rotate the dial to select an SMF user song.

5. Press BACK.

IKARA	[KARAOKE] T12					
161:0	161:UserSong 1					
KARAC	KARAOKE PART 4					
KEY 0	KEY Ø REVERB					
KEY						

6. Press CHANNEL.

This displays the -/+ screen.

(KARAOKE) Karaoke Part:4			СНА	NNEL
KEY Ø BACK	F	EVER	B -	+
	1	1	1	

7 . Rotate the dial or use – and + to set a channel for the karaoke part.

• You can specify a channel in the range of 1 to 16.

(

• To go back to the previous screen, press BACK.

Using a Lesson to Master Song Play

Your Digital Keyboard provides you with the lessons below, which help make it easier to master the songs you want to play.

- EASY Mode (page EN-87)
- Step Lesson (page EN-89)
- Using the Challenge Mode to Check Your Results (page EN-92)

If you want, you can disable Fingering Voice Guide and Note Sound Guide that sounds during lessons. For information about how to disable guidance, see "Disabling Lesson Fingering Voice Guide" (page EN-94) and "Disabling Note Sound Guide" (page EN-95).

Using the LESSON Function

1. Press LESSON.

This displays the lesson screen.

LESSON	ILESS	ONI			T148
	1:	Fur E	lise		
- Air	LISTE	N.	RIG	нт	
	STEP	HAND	EASY	CHAL LENGE	AB

2. To exit the LESSON function, press **HOME** or long-press **TONE**.

- The LESSON function can use built-in songs, user songs, and USB memory songs.
- Keyboard lighting is disabled while lesson playback is in progress.

EASY Mode

With the EASY Mode, you can play along by pressing any keyboard keys you want, even if they do not match the music.

Play on the keyboard by following the timing of the keys that light. With this type of lesson, playback progresses even if you press the wrong keyboard key. If you do not press any keyboard key, playback stands by until you do.

If you press keys before the corresponding key lighting, accompaniment will speed up to adjust the timing.

1. Press LESSON.

This displays the lesson screen.

2. Rotate the dial to select the song you want to play.

3. Press EASY.

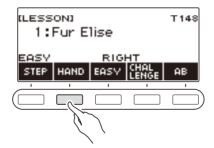
This displays "EASY", indicating the EASY Mode.



4. Use HAND to select the playing hand you want.

Depending on the playing hand you select, one of the following indicators appears on the display: "RIGHT" (right hand), "LEFT" (left hand), "BOTH" (both hands).

Each press of HAND cycles between the hand settings.



5. You can enable tone sync, if you want, by long-pressing SONG.



6. Press ►/■.

This starts EASY Mode play. The current measure and beat numbers are shown on the display.



- Inserts one measure at the beginning and sounds a pre-count.
- In the case of a song that starts with a pickup, the pre-count sounds for the rests at the beginning, before the pickup.
- If a chord name appears on the display while you have left hand or both hands selected as the playing hand, the "play this chord next" indicator (>) is displayed next to the chord name.



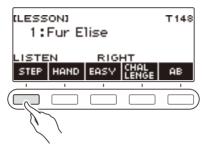
- · Playing a lesson song resets the following settings: split, layer, octave shift.
- Performing a chord song with your left hand or both hands resets the split point and chord mode settings.
- 7. The song continues to play until the end is reached or when you press ►/■ again to stop the lesson.

Doing a Lesson Step-by-step

1. Press **LESSON**.

This displays the lesson screen.

- 2. Rotate the dial to select the song you want to use for the lesson.
- **3.** Use STEP to select the lesson step you want.



- Each press of STEP cycles between the lesson parts.
- The table below explains each of the steps.

Display Name	Description
LISTEN	Listen to the example until you remember the song. Keyboard Lighting shows you the timing when you need to press keyboard keys.
WATCH	Play while watching the keys that light. The next key you need to press flashes to guide you. If you do not play the correct note in time, accompaniment stands by until you do. While accompaniment is standing by, the key you need to press lights and a tone sounds to guide you.
REMEMBER	Play without Keyboard Lighting. If you do not play the correct note in time, accompaniment stands by until you do. If you do not press the correct keyboard key, after a while the key you need to press remains lit and a tone sounds to guide you.

4. Use HAND to select the playing hand you want.

Depending on the playing hand you select, one of the following indicators appears on the display: "RIGHT" (right hand), "LEFT" (left hand), "BOTH" (both hands).

• Each press of HAND cycles between the playing hand settings.



5. You can enable tone sync, if you want, by long-pressing **SONG**.



6. Press ►/■.

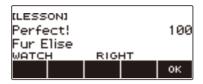
This starts the currently selected lesson and displays the current measure and beat numbers.



- · Inserts one measure at the beginning and sounds a pre-count.
- In the case of a song that starts with a pickup, the pre-count sounds for the rests at the beginning, before the pickup.
- Playing a lesson song resets the following settings: split, layer, octave shift.
- Performing a chord song with your left hand or both hands resets the split point and chord mode settings.

7 ■ The song continues to play until the end is reached or when you press ►/■ again to stop the lesson.

- If the lesson type is WATCH or REMEMBER, a performance evaluation score appears when the end of the song is reached.
- To return to the Home Screen from the performance evaluation screen, press OK.



The table below shows the evaluation result levels.

Display Name	Performance Evaluation	Points
Perfect!	Perfect	100
Great!	Great	99 to 80
Good!	Good	79 to 60
Nice try!	Nice try	59 to 20
Keep trying!	Keep trying	19 to 0



- Fingering Guide does not sound during Both Hand Lessons.
- If you press FF, REW, or AB or display another screen other than the lesson screen during a lesson, no performance evaluation is displayed for that lesson.
- If a chord name appears on the display while you have left hand or both hands selected as the playing hand for WATCH or REMEMBER, the "play this chord next" indicator (>) is displayed next to the chord name.

Using the Challenge Mode to Check Your Results

With the Challenge Mode, the song plays without guidance and without stopping, and then the Digital Keyboard evaluates your performance.

1. Press LESSON.

This displays the lesson screen.

2. Rotate the dial to select the song you want to challenge.

3. Press CHALLENGE.

This displays "CHALLENGE", which indicates the Challenge Mode.



4. Use HAND to select the playing hand you want.

Depending on the playing hand you select, one of the following indicators appears on the display: "RIGHT" (right hand), "LEFT" (left hand), "BOTH" (both hands).

5. You can enable tone sync, if you want, by long-pressing SONG.

6∎ Press ►/■.

This starts Challenge Mode play. The current measure and beat numbers are shown on the display.

- Inserts one measure at the beginning and sounds a pre-count.
- In the case of a song that starts with a pickup, the pre-count sounds for the rests at the beginning, before the pickup.

7. The song continues to play until the end is reached or when you press ▶/■ again to stop the challenge.

- If you complete the performance to the end, a score that rates your play appears on the screen.
- To exit the Challenge Mode while the performance evaluation screen is displayed, press OK.
- To restart the challenge, press ►/■.

Looping Part of a Song as a Lesson (Loop Lesson)

You can loop a specific section of a song for practice.

1 While using the EASY Mode or standard lesson is in progress, press AB to specify the starting measure of the Loop Lesson.

This causes "A" to appear on the display, indicating that the beginning of the measure where you pressed AB is the start point of the loop.



2. When playback reaches the measure you want to specify as the end of the Loop Lesson, press AB again.

This causes "AB" to appear on the display, indicating that the end of the measure where you pressed AB is the end point of the loop.

- Loop lesson starts automatically.
- The loop continues to play until you press ▶/■.



3. To stop loop lesson play, press ▶/■.

- Even if you stop loop lesson play, the current loop setting is retained.
- If the lesson step is WATCH or REMEMBER, or if you are using the Challenge Mode, a performance evaluation score appears after you play the loop.

[LESSON]			
Perfect!			100
Fur Elise			
WATCH	RIGHT	AB	>
FIN ISH			ок

• To restart the lesson from the performance evaluation screen, press OK. To exit a loop lesson, press FINISH.

4. To clear the loop setting, press AB again.

This causes "AB" to disappear from the display.

- If you do not create a loop, pressing AB while EASY Mode or lesson play is stopped causes lesson play of the entire current song to repeat.
- Changing the song being used for a lesson after creating a loop causes the loop to be cleared.

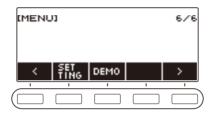
Disabling Lesson Fingering Voice Guide

Use the procedure below to disable Lesson Fingering Voice Guide.

1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SETTING.



3. Press SETTING.

This displays the setting screen.



- **4.** Use < and > to select "Fingering Voice Guide".
- 5. Rotate the dial or use and + to select "Off".
- **6**. To exit the setting operation, press EXIT.

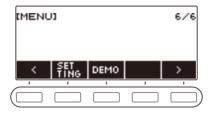
Disabling Note Sound Guide

You can use the procedure below to disable note guide.

1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SETTING.



3. Press SETTING.

This displays the setting screen.



- **4.** Use < and > to select "Note Sound Guide".
- 5. Rotate the dial or use and + to select "Off".
- **6**. To exit the setting operation, press EXIT.

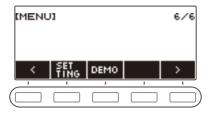
Disabling Performance Evaluation

You can use the procedure below to disable performance evaluation at the end of a lesson.

1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SETTING.



3. Press SETTING.

This displays the setting screen.



- **4.** Use < and > to select "Lesson Evaluation".
- 5. Rotate the dial or use and + to select "Off".
- **6**. To exit the setting operation, press EXIT.

Playing with a Rhythm Backing

You can use the procedures in this section to select the rhythm you want, and then automatically play accompaniments to suit it simply by playing chords with your left hand. It's like having a personal backup group along with you wherever you go.



- Auto Accompaniments are made up of the parts (instruments) below.
 - Rhythm (percussion instruments)
 - Bass (bass instruments)
 - Harmony (other instruments)

You can have only the rhythm part play, or you can have all three parts play at the same time.

Rhythm

The rhythm part is the foundation of each Auto Accompaniment.

Your Digital Keyboard comes with a variety of built-in rhythms, including 8-beat and waltz. Use the procedure below to play the basic rhythm part.

Using the Rhythms

1. Press **RHYTHM**.

This displays the currently selected rhythm number and name, indicating that the rhythm function is enabled.



2. To exit the rhythm function, press **HOME** or long-press **TONE**.

Playing a Rhythm

1. Press **RHYTHM**.

This displays the currently selected rhythm number and name.

2. Rotate the dial to select a rhythm.

This displays the category name of the selected rhythm.

- For information about rhythm types, see the "Rhythm List" (page EN-200).
- After you rotate the dial once to select an option, you can change the selection further using and +.
- If you want to select a category, use CAT-/CAT+.
- To go back to the previous screen, press BACK.



3. Press ►/■.

This starts the rhythm and displays the beat number.



4. To stop playback, press ►/■ again.

Changing the Tempo

Use the procedure below to change tempo to a speed that suits you.

1. Press RHYTHM.

This displays the currently selected rhythm number and name.

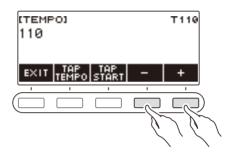
2. Rotate the dial to select the name of the rhythm whose tempo you want to change.

3. Press **TEMPO**.

This displays the tempo screen.

4. Rotate the dial or use – and + to change the tempo value.

- You can specify a tempo value in the range of 20 to 255.
- To return to the recommended setting, press and + at the same time.



5. To exit the setting operation, press EXIT.

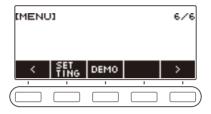
Changing the Volume Level of a Rhythm

Use the procedure below to adjust the balance between the volume levels of keyboard play and the rhythm.

1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SETTING.



3. Press SETTING.

This displays the setting screen.



- **4**. Use < and > to select "Rhythm Volume".
- 5. Rotate the dial or use and + to change the rhythm volume level.
 - You can specify a volume value from 0 to 127.

6. To exit the setting operation, press EXIT.

• You can also adjust the volume level of the rhythm using the procedure under "Changing the Volume Balance Between Keyboard Play and Rhythm Play (Balance)" (page EN-52).

Changing the Keyboard Tone While a Rhythm is Playing

1. While a rhythm is playing, press **TONE**.

The selected tone number and instrument name appears on the display.



2. Rotate the dial to select a tone.

- For tone information, see the "Tone List" (page EN-187).
- After you rotate the dial once to select an option, you can change the selection further using and +.
- To return the setting to its initial default, press and + at the same time.
- To go back to the previous screen, press BACK.

Using Recommended Rhythm Settings (One Touch Presets)

You can use the procedure below to configure tone and tempo settings that are most suitable for a particular rhythm pattern.

1. Press RHYTHM.

This displays the currently selected rhythm number and name.

2. Rotate the dial to select the name of the rhythm whose setting you want to configure.

3. Long-press RHYTHM.

This momentarily displays "RECOMMENDED", which indicates the recommended rhythm settings are configured.

(RHYTHM)	T110
1:E. Dance Pop	
No Chord	
RECOMMENDED	
INTRO VARI FILL SYNC	ACCMP

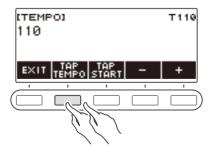
Adjusting the Tempo by Tapping (Tap Tempo)

1. Press **TEMPO**.

This displays the tempo screen.

2. Tap the TAP TEMPO button at least twice at a steady pace.

This sets the tempo in accordance with your tapping.



Sounding Rhythm as You Use Tap Tempo

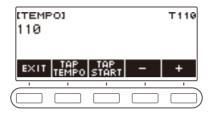
1. Press **RHYTHM**.

This displays the currently selected rhythm number and name.

2. Rotate the dial to select the name of the rhythm whose setting you want to configure.

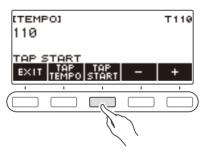
3. Press TEMPO.

This displays TAP START above one of the 5 buttons.



4. Press TAP START.

This displays "TAP START".



5. Tap the TAP TEMPO button at least twice at a steady pace that matches the rhythm beat.

The rhythm starts playing from the first beat of the next measure.

Changing the Rhythm Pattern

You can use the procedure below to add liveliness to your rhythm pattern. Use the procedure below to play intro and ending patterns, to play fill-in patterns, and to play variations of basic rhythm patterns.

Switching Between the Basic Pattern and Variation Pattern

Each rhythm number has a basic pattern (V1) and a variation pattern (V2). You can switch to the variation pattern to add a bit of variation to your performances.

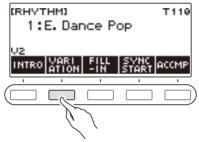
1. Press **RHYTHM**.

This displays the currently selected rhythm number and name.

2. Rotate the dial to select the name of the rhythm whose setting you want to configure.

3. Press VARIATION.

This displays "V2".



- To return to "V1", press VARIATION again.
- Pressing VARIATION while a rhythm is playing, the rhythm toggles between V1 and V2 from the next measure.

4. Press ►/■.

This starts the currently selected rhythm pattern.

Inserting an Intro

The intro you insert at the beginning of a song is followed by the basic pattern (V1) or variation pattern (V2).

1. Press **RHYTHM**.

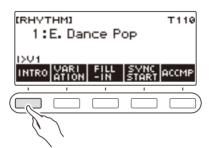
This displays the currently selected rhythm number and name.

2. Rotate the dial to select the name of the rhythm whose setting you want to configure.

3. Press INTRO.

This displays "I >V1".

• "I >V1" indicates that "V1" starts to play following the introduction.



- To remove an intro, press VARIATION.
- If you press INTRO while a rhythm is playing, the rhythm changes to the intro from the next measure.
- **4.** To change the rhythm pattern that is played after the intro from the basic pattern (V1) to the variation pattern (V2), press INTRO again.

This displays "I >V2".

• Press INTRO again to return to "I >V1".

5. Press ►/■.

This plays the intro. After the intro is complete, the rhythm pattern you selected in step 4 starts to play.

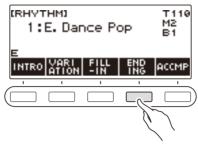
- Pressing VARIATION while an intro is playing interrupts the intro play up to the current measure and then plays the rhythm pattern you specified in step 4.
- To play the other rhythm pattern while the intro is playing, press VARIATION twice in quick succession.

Inserting an Ending

Inserting an ending causes it to play for the final measures of a song.

1 While a rhythm is playing, press ENDING.

This displays "E". The ending plays from the next measure and then the rhythm stops.



- Pressing VARIATION while an ending is playing interrupts the ending play up to the current measure and then plays the current rhythm pattern (V1 or V2).
- To play the other rhythm pattern while the ending is playing, press VARIATION twice in quick succession.

Inserting a Fill-in Phrase

A "fill-in" is a short phrase played where you want to change the mood of a song. A fill-in pattern can be used to create a link between two melodies or as an accent.

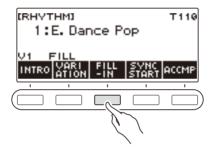
1 ■ While a rhythm is playing, press VARIATION and then select a rhythm pattern (V1 or V2).

2. Press FILL-IN.

This inserts a fill-in phrase that matches the current rhythm pattern (V1 or V2). The phrase continues to the end of the measure, and "FILL" is displayed at the bottom of the screen while the fill-in is playing.

- To extend the fill-in into the next measure, keep FILL-IN depressed until rhythm play enters the next measure.
- Pressing FILL-IN while a rhythm is stopped inserts the fill-in and causes it to be played when rhythm play is started.

To cancel the inserted fill-in before starting rhythm play, press FILL-IN again.



Fingering a Chord to Play a Rhythm Accompaniment

Playing a chord with your left hand automatically adds bass and harmony accompaniment parts to the currently selected rhythm. It is just like having a personal back up group on call.

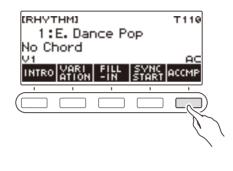
1. Press RHYTHM.

This displays the currently selected rhythm number and name.

2. Rotate the dial to select the name of the rhythm whose chords you want to input.

3. Press ACCMP.

"AC" and "No Chord" appear on the display, indicating that the accompaniment keyboard is enabled for accompaniment play.





Accompaniment keyboard

4. Press ►/■ to start the rhythm.

5. Play a chord on the accompaniment keyboard.

This sounds the bass, harmony, and other non-rhythm part instruments.

- The accompaniment keyboard range is the same as the split keyboard range (page EN-50).
- Playing a chord while rhythm play is stopped sounds the chord only as long as the keyboard keys are pressed.
- You can use Synchro Start (page EN-112) to start rhythm play when you play a chord.

6. Press ACCMP again to stop the accompaniment.

Selecting a Chord Fingering Mode

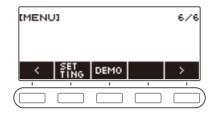
You can select from among the six chord fingering modes below.

- CASIO CHORD
- FINGERED 1
- FINGERED 2
- FINGERED ON BASS
- FINGERED ASSIST
- FULL RANGE CHORD

1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SETTING.



3. Press SETTING.

This displays the setting screen.



- **4**. Use < and > to select "Chord Mode".
- 5. Rotate the dial or use and + to select the chord fingering mode.
- **6**. To exit the setting operation, press EXIT.

■ CASIO CHORD

With CASIO CHORD, you can use simplified fingerings to play the four types of chords described below



Chord Type	Example
Major Chords Letters below the accompaniment keyboard indicate the name of the chord assigned to each key. Accompaniment keyboard keys marked with the same chord name play exactly the same chord.	C (C Major)
Minor Chords Press the key that corresponds to the major chord, while also pressing one other accompaniment area key to the right.	Cm (C Minor)
Seventh Chords Press the key that corresponds to the major chord, while also pressing two other accompaniment area keys to the right.	C7 (C Seventh)
Minor Seventh Chords Press the key that corresponds to the major chord, while also pressing three other accompaniment area keys to the right.	Cm7 (C Minor Seventh)

NOTE

• When playing a minor, seventh, or minor seventh chord on the accompaniment keyboard, it makes no difference whether the additional keys you press are black or white.

■ FINGERED

With this chord fingering mode, you play chords on the accompaniment keyboard using their normal chord fingerings. Note that some chords can also be formed using abbreviated fingerings of one or two keys. For information about the types of chords you can finger and their fingerings, see the "Fingering Guide" (page EN-212).



• FINGERED 1

Play the component notes of the chord on the keyboard.

• FINGERED 2

Unlike Fingered 1, 6th input is not possible with this mode.

• FINGERED ON BASS

Play the component notes of the chord on the keyboard. This mode allows input of fraction chords with the lowest keyboard note as the base note.

FINGERED ASSIST

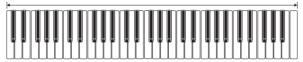
In addition to FINGERED 1 input, you can also use the fingerings below to play the three chord types.

Minor Chords (Cm)	One keyboard key for the base note and the nearest black key to the left.
Seventh Chords (C7)	One keyboard key for the base note and the nearest white key to the left.
Minor Seventh Chords (Cm7)	One keyboard key for the base note and the nearest black key and white key to the left.

■ FULL RANGE CHORD

With this chord fingering mode, you can use the full range of the keyboard to play chords and the melody.

Accompaniment Keyboard/Melody Keyboard



Starting Rhythm Play when a Chord is Played (Synchro Start)

Synchro Start automatically starts the rhythm when something is played on the keyboard.

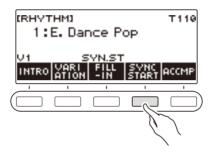
1. Press **RHYTHM**.

This displays the currently selected rhythm number and name.

$\mathbf{2}_{ extsf{-}}$ Rotate the dial to select the name of the rhythm you want to synchro start with.

3. Press SYNC START.

This enters the synchro start standby state, with "SYN.ST" flashing on the display in time with the currently set tempo.



4. Play a chord on the accompaniment keyboard.

This causes "SYN.ST" to disappear from the display and starts rhythm play.

• Pressing ACCMP to display "AC" causes rhythm and accompaniment to sound simultaneously.

Configuring Rhythm Play to Stop Automatically when Chord Play is Stopped (Synchro Stop)

With synchro stop, rhythm play stops and Synchro Start standby is entered automatically when the accompaniment keyboard keys are released.

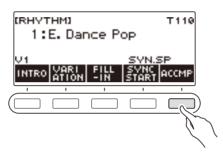
1. Press **RHYTHM**.

This displays the currently selected rhythm number and name.

${f 2}_{{\scriptscriptstyle I\!I}}$ Rotate the dial to select the name of the rhythm you want to synchro stop with.

3. Long-press ACCMP

This displays "SYN.SP", which indicates Synchro Stop is enabled.



- **4**. Press ACCMP to enable chord input.
- 5. Press SYNC START to enter synchro start playback standby.
- **6.** Hold down a chord on the accompaniment keyboard. This starts the rhythm.
- **7** Remove your fingers from the keyboard keys. This stops the rhythm and enters synchro start standby.
- 8. The rhythm pattern repeats as long as accompaniment keyboard keys are depressed.

Changing the Rhythm Pattern and the Fill-in Operation Type

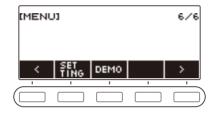
You can use the procedure below to change the rhythm pattern change operation method and fill-in operation method.

■ Changing the rhythm operation type to Type 2

1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SETTING.



3. Press SETTING.

This displays the setting screen.

(SETT < -		anspo Ø	se	> +
EXIT	<	>	-	+

- **4.** Use < and > to select "Rhythm Controller Type".
- 5. Rotate the dial or use and + to select the rhythm operation type.
 - You can change the rhythm operation type to Type 2.
- **6.** To exit the setting operation, press EXIT.

NOTE

• Changing the rhythm operation type to Type 2 causes the 5 buttons menu on the rhythm screen to appear as shown below.



- Changing the rhythm operation type can cause the rhythm to stop and/or the rhythm to be reset to its initial default setting.
- In the case of rhythm operation Type 2, the rhythm pattern is not set when a rhythm is selected, even if rhythm auto setting (page EN-117) is enabled.

Switching Between the Basic Pattern and Variation Pattern

1 ■ Press ►/■ to start rhythm play.

This plays the "V1" rhythm.

- While rhythm play is stopped, pressing VAR1 plays "V1", while pressing VAR2 plays "V2"
- Pressing VAR2 while "V1" is being played changes to the "V2" rhythm pattern from the next measure. Pressing VAR1 while "V2" is being played changes to the "V1" rhythm pattern.

■ Fill-in

1 . While "V1" is playing press VAR1, or while "V2" is playing press VAR2.

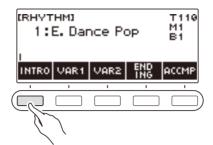
This displays "FILL" and inserts a fill-in at the end of the current measure.

 To extend the fill-in into the next measure, keep VAR1 or VAR2 depressed until rhythm play enters the next measure.

Intro

1 While rhythm play is stopped, press INTRO.

This displays "I" and plays the intro.



- Pressing VAR1 while an intro is playing displays "I >V1". Pressing VAR2 displays "I >V2".
- If "I" is left on the display without changing it, "V1" starts to play following the introduction.
- After you press VAR1 ("I >V1" displayed) or VAR2 ("I >V2" displayed), pressing the same button (VAR1 or VAR2) again interrupts the intro play up to the current measure and then plays the current rhythm pattern (V1 or V2).
- If you press INTRO while a rhythm is playing, the rhythm changes to the intro from the beginning of the next measure, and "I" appears on the display.

Ending

1. While a rhythm is playing, press ENDING.

When rhythm play enters the next measure, "E" appears on the display to indicate that an ending is being played. After the ending, rhythm play stops.

• Pressing VAR1 while an ending is playing switches to "V1" from the next measure. Pressing VAR2 switches to "V2".

Synchro Start

While in Synchro Start standby, you can preset the pattern that plays when rhythm play starts by pressing INTRO ("I" flashes), VAR1 ("V1" flashes), or VAR2 ("V2" flashes).

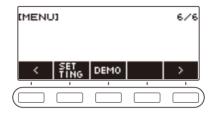
Disabling Automatic Setting of the Tempo and Pattern when a Rhythm is Selected

Selecting a rhythm causes its recommended tempo and pattern to be automatically applied. You can disable auto setting, if you want.

1. Press **MENU**.

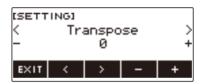
This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SETTING.



3. Press SETTING.

This displays the setting screen.



4. Use < and > to select "Rhythm Auto Set".

5. Rotate the dial or use – and + to select "Off".

• To enable auto setting, select "On" for this setting.

6. To exit the setting operation, press EXIT.

NOTE

• When Type 2 is selected as the rhythm operation type (page EN-114), selecting a rhythm will not automatically set the pattern to the recommended value when the rhythm is selected, even if rhythm auto setting is enabled.

Increasing the Number of Rhythms (User Rhythms)

A USB flash drive song can be loaded as a user rhythm. (Rhythm number: 201 to 210) The file name extensions for loaded rhythms are AC7, CKF, and Z00.

 For information about loading a USB flash drive song as a user rhythm, see "USB Flash Drive Operations" on page EN-155.

Deleting User Rhythm Data Stored in Digital Keyboard Memory

1. Press **RHYTHM**.

This displays the currently selected rhythm number and name.

2. Rotate the dial to select the user rhythm you want to delete.

3. Long-press MENU.

This displays "Sure?".

(RHYTHM)				CLEAR
Sure?				
201:	UserR	hythm	n 1	
васк			NO	YES
BACK	1	1	NO	VES

4. Press YES.

This deletes the user rhythm.

• To cancel, press NO.

5. When "Complete" appears on the display, press OK.

(RHYTHM) Complete		c	LEAR	
	I	I	ок)
			Ĺ	\mathcal{I}

Chord Lookup (Chord Book)

You can use the Chord Book to look up chords you do not know how to play. Specifying root, chord type, and inversion settings displays the chord form and sounds the chord. You can also sound Auto Accompaniment based on the looked up chord, or play Auto Accompaniment and have the chords that are played displayed by the chord book.

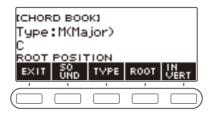
1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes CHORD BOOK.

3. Press CHORD BOOK.

This displays the chord book screen, and keyboard keys light to show the form of the displayed chord.



4. To check the sound of the chord form, press SOUND.

5. Rotate the dial to select a chord type.

This displays the -/+ screen.

Туре С	ND BOC M(Ma	jor)		
BACK	SO UND		-	+
	1	1	1	1
$(\Box$				

- For information about chord types, see "Fingering Guide" (page EN-212).
- After you rotate the dial once to select a chord type, you can change the selection further using – and +.
- To go back to the previous screen, press BACK.

6. To exit the setting operation, press EXIT.

- Keyboard Lighting is disabled while the Chord Book is being used.
- Displaying the Chord Book screen resets the UPPER1 part volume level and transpose settings.
- If a drum tone or some other special tone is selected, re-select the top tone number before using the Chord Book function.

■ Changing the Root Note to Look Up a Chord

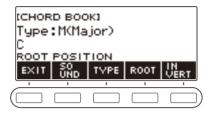
1. Press MENU.

This displays the menu screen.

$\mathbf{2}_{ extsf{s}}$ Use < and > to select the 5 buttons menu that includes CHORD BOOK.

3. Press CHORD BOOK.

This displays the chord book screen, and keyboard keys light to show the form of the displayed chord.



4. Press ROOT.

This displays the root note of the chord.

CHORD BOOKI				
Root:	Root:C			
С	С			
ROOT	POSIT	<u>10N</u>		
EXIT	SO UND	TYPE	ROOT	UN VERT

5. Rotate the dial to select a chord root note.

• This displays the -/+ screen.

Root C	RD BOC C			
BACK	S0 UND	TON	-	+
1	1	1	1	1

- After you rotate the dial once to select a root note, you can change the selection further using and +.
- To go back to the previous screen, press BACK.

■ Looking Up Chord Inversions

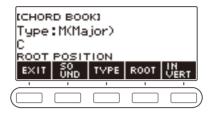
1. Press MENU.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes CHORD BOOK.

3. Press CHORD BOOK.

This displays the chord book screen, and keyboard keys light to show the form of the displayed chord.



4. Press INVERT and then select the inversion you want.

Туре С	: M(Ma	jor)			
EXIT	POSI SO UND	TYPE	ROOT	IN VERT	
				R)
				Q	

The table below shows the inversion types you can select.

Setting	Display Name
Root position	ROOT POSITION
First inversion	FIRST INVERSION
Second inversion	SECOND INVERSION
Third inversion	THIRD INVERSION
Fourth inversion	FOURTH INVERSION

NOTE

• Chord inversions differ according to the number of notes that make up the chord.

Recording Your Keyboard Play

You can use the procedures in this section to record your keyboard play for later playback. There are two ways to record: Easy Recording, which simplifies recording of your performances, and Multi-track Recording, which lets you overdub record performances.

Your recordings can be saved to Song Bank locations 361 through 368 (Tone Recordings: 361, Rhythm Recording: 362, Auto-Off Recording: 363: Multi-track Recording: 364 to 368).

Easy Recording

For Easy Recording, you can specify Tone Recording, Rhythm Recording, or Part-off Recording.

- You can use the tone screen to save a recorded performance as a Tone Recording.
- You can use the rhythm screen to save a recorded performance as a Rhythm Recording.
- Built-in songs, user songs, and performances that Part Off record a USB flash drive song are stored as Part-off Recordings.

Multi-track Recording

A Multi-track Recording consists of a single system track to which a performance that uses layer, split, and rhythm function can be recorded, and five solo tracks for recording with the UPPER1 part.

• There is memory for up to five multi-track recordings.

Also, you can copy a Tone Recording and Rhythm Recording as a Multi-track Recording (page EN-129).

Recorded Information

The recorder records information about the operations of the functions listed below.

- Keyboard play and pedal operations
- Tone
- Touch Response
- Pedal
- Sustain
- Layer
- Split
- Balance
- Octave shift
- System Effects (Reverb*1, Chorus*2)
- Scale Tuning^{*3}
- Tempo^{*3}
- Rhythm*4
- Recording settings beat
- *1 Can be recorded with part-off. Cannot be recorded to the solo track.
- *2 Cannot be recorded with part-off. Cannot be recorded to the solo track.
- *3 Cannot be recorded to the solo track.
- *4 Cannot be used the function with part-off. Cannot be recorded to the solo track.



• The Multi-track Recording solo track does not record UPPER2 part and LOWER part operations.

Easy Keyboard Play Recording

Use the procedure below to record a performance using tone and rhythm functions.

1. Press **TONE** or **RHYTHM**.

2. Rotate the dial to select a tone or rhythm.

3. Press RECORD.

This displays "(REC)" and enters record standby.





- With Tone Recording, the initial default beat setting is the metronome beat setting.
- With Rhythm Recording, the initial default time signature setting is the rhythm time signature setting.
- For information about changing the beat setting to be used for recording, see "Changing the Beat Setting for Recording" (page EN-125).

4. Play something on the keyboard.

This displays "REC" along with the current measure and beat numbers, indicating that recording has started.



5. To exit the recording operation, press RECORD again.

After recording is complete, the song screen appears with the saved song recording displayed.

 A Tone Recording is displayed in the case of Tone Recording, while a Rhythm Recording is displayed in the case of Rhythm Recording.



6. To start playback of what you recorded, press ▶/■.

Each press of $\blacktriangleright/\blacksquare$ starts and stops playback.

- The maximum size of a single song recording is approximately 40,000 notes or 999 measures. "(REC)" appears on the display when there are 100 or fewer notes or 32 or fewer measures of free space remaining in memory. "(REC)" disappears from the display, and recording stops automatically when memory becomes full.
- To exit recording standby or an ongoing record operation, press HOME. Exiting an ongoing record operation causes any data recording during the operation to be deleted. If you want to avoid inadvertently exiting recording standby or an ongoing record operation due to accidental pressing of HOME, use Home Customization to disable the panic function (page EN-145).
- If you press **RECORD**, the Home Screen will appear with the Base Display you selected with Home Customization. If you want to use the Home Screen while recording, disable the Home Customization panic function (page EN-145).
- Tone Recording, Rhythm Recording, and Part-off Recording cannot be combined within a single recording operation.

Changing the Beat Setting for Recording

1. Press **TONE** or **RHYTHM**.

2. Rotate the dial to select a tone or rhythm.

3. Press RECORD.

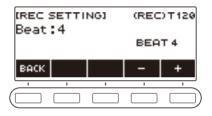
This displays "(REC)" and enters record standby.

4. Long-press **RECORD**.

This displays a record settings screen.

IREC SETTING) Beat:4	(REC) T120
	BEAT 4
BACK COUNT	REC START

5. Rotate the dial to change the beat value.



- For the beat setting, you can select Off, or a value of 1 to 16.
- After you rotate the dial once to select a value, you can change the value further using and +.
- To go back to the previous screen, press BACK.

6. To exit the setting operation, press BACK.

Sounding a Count While Recording

1. Press **TONE** or **RHYTHM**.

2. Rotate the dial to select a tone or rhythm.

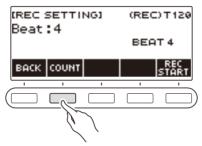
3. Press RECORD.

This displays "(REC)" and enters record standby.

4. Long-press **RECORD**.

This displays a record settings screen.

5. Press COUNT and then select a count operation.



Each press of COUNT changes the setting.

Setting (Displayed Setting Name)	Description
Off	Count does not sound.
Count (COUNT)	Inserts one blank measure before recording starts, and sounds a count.
Pre-count (PRECOUNT)	Inserts one blank measure before recording starts, and sounds a count for that measure only.

6. To exit the setting operation, press BACK.

Recording Along with Song Part-off Playback

1. Press SONG.

This displays the song screen.

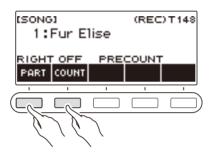
2. Rotate the dial to select a song from among the built-in songs, user songs, and USB flash drive songs.

3. Press RECORD.

- If the Part-off setting is normal, it will change to RIGHT OFF.
- If the count setting is off, it will change to PRECOUNT.

4. Use PART and COUNT to select the settings you want.

• If you are creating a Part-off Recording, you cannot select "Off" as the count setting.



5. Press ►/■.

6. Press ▶/■ or **RECORD** to exit the recording operation.

After recording is complete, the song screen appears with the saved Part-off Recording displayed.



7. Press ▶/■ to start playback of the recorded song.

8∎ To re-record, repeat this procedure from step 3.

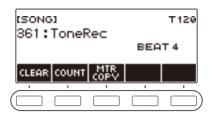
• Recording settings are retained until you change to another song, so you can re-record using the same settings.

Deleting an Easy Recording

1. Press SONG.

This displays the song screen.

2. Rotate the dial to select the Easy Recording you want to delete.



3. Press CLEAR.

This displays "Sure?".

ISONO Sure 361 :		Rec	c	LEAR
васк			NO	YES
	1	1	1	
\bigcirc				

• You can also delete an Easy Recording by long-pressing **MENU**.

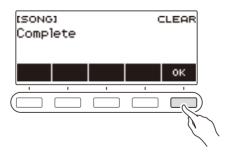
4. Press YES.

This deletes the Easy Recording.

• To cancel, press NO.

5. When "Complete" appears on the display, press OK.

This exits Easy Recording delete.



Overdub Recording (Multi-track Recording)

1. Press SONG.



- If you long-press **RECORD** when you are not using the recorder function, you can select the first multi-track recorded song.
- 2. Rotate the dial to select the Multi-track Recording you want to overdub.

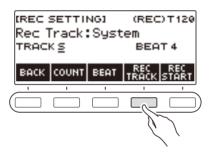
3. Press RECORD.

This enters record standby.

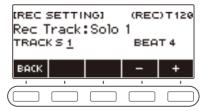
4. Long-press RECORD.

This displays a record settings screen.

5. Press REC TRACK.



6. Rotate the dial to select the record destination track.



- After you rotate the dial once to select a record destination track, you can change the selection further using and +.
- To go back to the previous screen, press BACK.
- The beat can be changed only when the record destination is the system track.

EN-129

7. Press REC START.

Recording starts from the first measure, which is a preparation measure. Playback of the recorded track starts simultaneously. Now you can play along with the playback.

• If you want to record your performance from the beginning without a preparation measure, start playing without pressing REC START.

8. Press **RECORD** to exit the recording operation.

Exiting the recording operation displays the song screen, which shows the Multi-track Recording you just saved.



9. Repeat steps 3 through 8 of the procedure to overdub your play.

Copying a Tone Recording or Rhythm Recording as a Multi-track Recording

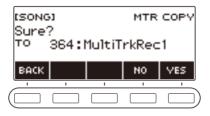
1. Press **SONG**.

This displays the song screen.

2. Rotate the dial to select the Tone Recording or Rhythm Recording you want to copy as a multi-track recording.

3. Press MTR COPY.

This displays "Sure?".



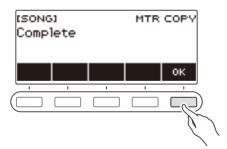
4. Press YES.

This copies the data to a blank Multi-track Recording number.

• To cancel, press NO.

5. When "Complete" appears on the display, press OK.

This exits the copy operation.

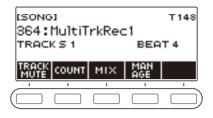


Muting a Multi-track Recording Track

1. Press SONG.

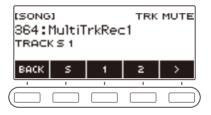
This displays the song screen.

2. Rotate the dial to select the Multi-track Recording you want to mute.



3. Press TRACK MUTE.

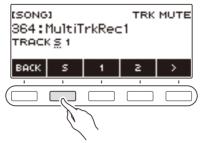
This displays the track mute setting screen.



4. Use < and > to select the 5 buttons menu that includes the number of the track you want to mute.

5. Press the button for the number of the track you want to mute.

The track that corresponds to the button you press is muted, which is indicated by a broken line under its track number.



- To unmute a track, press its track number button again.
- **6**. Press BACK to exit the setting operation.

Adjusting the Volume Level and Pan of Each Track of a Multi-track Recording (Mixing)

Pan is a setting that controls the distribution of a sound signal. 0 indicates the center, while a smaller value shifts to the left and a larger value shifts to the right.

1. Press SONG.

This displays the song screen.

${f 2}_{f \cdot}$ Rotate the dial to select the Multi-track Recording you want to adjust.

3. Press MIX.

This displays the parameter selection screen.



4. To adjust the volume level, press VOLUME. To adjust the pan, press PAN.

This displays the track selection screen.

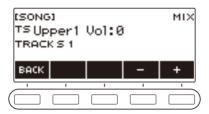


- **5**. Use < and > to select the 5 buttons menu that includes the track you want to adiust.
 - Track 1 consists of UPPER1, UPPER2, LOWER, and rhythm parts. Each part can be adjusted individually.
 - The pan of Track 1 rhythm cannot be adjusted.

6. Press the button that corresponds to the track you want to adjust.

7. Rotate the dial to adjust.

• The original (pre-adjusted) track is retained until you save your adjustments in steps 8 and 9 below. If you want to discard your adjustments and revert to the original (pre-adjusted) track, select press NO in step 9.



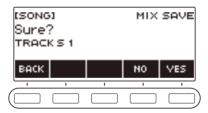
• The range of both the volume and pan value is -127 to +127. These settings can be adjusted relative to the recorded value.

The adjusted volume and pan value ranges are 0 to 127 and -64 to +63, respectively. These settings cannot be adjusted outside of these ranges.

- After you rotate the dial once to adjust, you can adjust further using and +.
- To return the setting to its initial default, press and + at the same time.
- To go back to the previous screen, press BACK.
- To adjust other track, return to the first page of parameter selection screen by using < and >, and then press BACK. Repeat the steps of this procedure from step 5.

8. Press SAVE to save your adjustments.

This displays "Sure?".



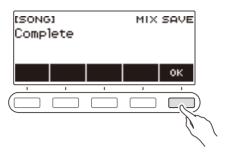
9. Press YES.

This saves your adjustments.

• To cancel, press NO.

10.When "Complete" appears on the display, press OK.

This displays the parameter selection screen.



Copying a Multi-track Recording

1. Press SONG.

This displays the song screen.

2. Rotate the dial to select the Multi-track Recording you want to copy.

3. Press MANAGE.

This displays the Multi-track Recording management screen.



4. Press SONG COPY.

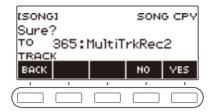
This displays the multi-track copy destination selection screen.

[SONG]		SON	G CPY
FROM 364	:MultiT	rkRec	1
TO 364	:MultiT	rkRec	1
TRACKS 1			
BACK	SE LECT	-	+

5. Rotate the dial or use – and + to select the copy destination.

6. Press SELECT.

This displays "Sure?".

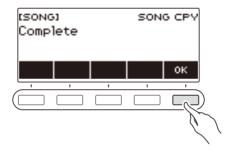


7. Press YES.

This copies the multi-track recording.

- To cancel, press NO.
- 8. When "Complete" appears on the display, press OK.

This completes the multi-track copy operation.



Deleting One or More of the Multi-track Recordings in Memory

1. Press SONG.

This displays the song screen.

2. Rotate the dial to select the Multi-track Recording you want to delete.

3. Press MANAGE.

This displays the Multi-track Recording management screen.

4. Press SONG CLEAR.

This displays "Sure?".

tson Sure			SON	G CLR
364:	MultiT	rkRec	:1	
TIKHU	KS1			
BACK	KS1		NO	YES
BACK	.K 5 1	1	NO	YES

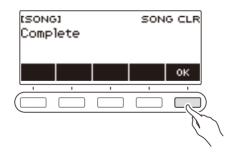
5. Press YES.

This deletes the multi-track recording.

• To cancel, press NO.

6. When "Complete" appears on the display, press OK.

This completes the multi-track delete operation.



NOTE

• In place of steps 3 and 4, you can also long-press MENU to delete the multi-track recording.

Copying the Solo Track of a Multi-track Recording

1. Press SONG.

This displays the song screen.

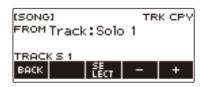
2. Rotate the dial to select the Multi-track Recording whose solo track you want to copy.

3. Press MANAGE.

This displays the Multi-track Recording management screen.

4. Press TRACK COPY.

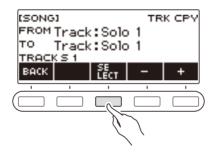
This displays the solo track copy source selection screen.



5. Rotate the dial or use – and + to select the copy source.

6. Press SELECT.

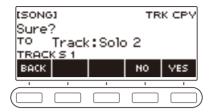
This displays the solo track copy destination selection screen.



7. Rotate the dial or use – and + to select the copy destination.

8. Press SELECT.

This displays "Sure?".



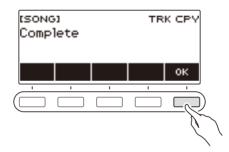
9. Press YES.

This copies the solo track.

• To cancel, press NO.

10.When "Complete" appears on the display, press OK.

This exits the solo track copy operation.



Deleting a Multi-track Recording Track

1. Press SONG.

This displays the song screen.

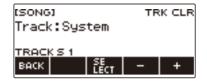
2. Rotate the dial to select the Multi-track Recording whose track you want to delete.

3. Press MANAGE.

This displays the Multi-track Recording management screen.

4. Press TRACK CLEAR.

This displays the track delete selection screen.



5. Rotate the dial or use – and + to select a track.

6. Press SELECT.

This displays "Sure?".

ISONO	51		TR	K CLR
Sure?				
	k:Sys	tem		
TRAC	KS1			
BACK			NO	VES
	I	1	I	

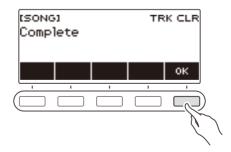
7. Press YES.

This deletes the track.

• To cancel, press NO.

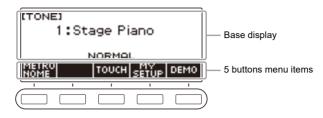
8. When "Complete" appears on the display, press OK.

This exits the track delete operation.



Customizing the Home Screen (Home Customization)

You can change the Home Screen's Base Display and/or the 5 buttons to customize the screen as you like. You can also configure a setting so various type of playback do not stop when you press the **HOME**.





 Saving Customize contents in MY SETUP keeps them from being deleted when the Digital Keyboard is turned off. You also can configure Digital Keyboard settings so MY SETUP settings are recalled whenever Digital Keyboard power is turned on (page EN-67).

Changing the Base Display

1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes HOME CSTM.

3. Press HOME CSTM.

This displays the Home Customization screen, which shows Base Display items.



4. Rotate the dial to change the Base Display.

Screens you can select are shown in the table below.

Setting	Display Name
Tone screen	Tone
Rhythm screen	Rhythm
Tone/rhythm screen	Tone/Rhythm

• After you rotate the dial once to select a setting, you can change the setting further using - and +.

• To go back to the previous screen, press BACK.

5. To exit the setting operation, press EXIT.

Changing the Function of Each 5 buttons

1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes HOME CSTM.

3. Press HOME CSTM.

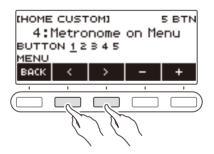
This displays the Home Customization screen, which shows Base Display items.

4. Press 5 BTN (5 buttons).

This displays the 5 buttons (5 BTN) setting screen.



5. Use < and > to select the button whose function you want to change.



- 6. Rotate the dial or use and + to change the function. For information about the functions that can be assigned to the 5 buttons see "Home Customization 5 buttons Function List" (page EN-210).
- **7** Press BACK to exit the setting operation.

NOTE

• With some functions, the current settings of its parameters will appear above the corresponding 5 buttons. In some cases, the current setting name will be abbreviate due to space limitations.

Preventing Playback Stop when HOME is Pressed (PANIC function)

Pressing the **HOME** normally stops all types of playback. This is the "PANIC function". This lets you stop playback instantly, even if you do not know how to stop a particular type of playback. You can also disable the PANIC function if you want.

1. Press MENU.

This displays the menu screen.

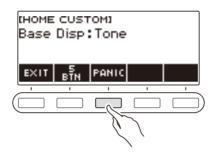
2. Use < and > to select the 5 buttons menu that includes HOME CSTM.

3. Press HOME CSTM.

This displays the Home Customization screen, which shows base screen items.

4. Press PANIC.

This causes "PANIC" to disappear from the display, indicating that the PANIC function is disabled.



5. To enable the PANIC function, press PANIC again.



• Playback may stop even when the PANIC function is disabled.

Configuring Settings

Setting Operation

Use the procedure below to configure settings.

1. Press **MENU**.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SETTING.

3. Press SETTING.

This displays the setting screen.



- **4.** Use the < and > buttons to select a setting item.
- **5.** Rotate the dial or use and + to change the setting.
- **6**. To exit the setting operation, press EXIT.

Setting Item List

Function Name	Description	Display Name	Setting
Transpose	Can be used to raise the overall pitch in semitone steps to make it easier to play a piece written in a difficult key, or to adjust to a key that better matches a vocalist, another musical instrument, etc.	Transpose	–12 to 0 to +12 (Initial Default: 0)
Touch off velocity	Can be used to specify the velocity value when Touch Response is disabled.	Touch Off Velocity	1 to 127 (Initial Default: 100)
Keyboard Lighting	Can be used to disable and enable Keyboard Lighting.	Key Light	Off, On (Initial Default: On)
MIC Reverb	Can be used to adjust the depth of the reverb applied to the microphone input sound. However, you cannot adjust reverb while using the karaoke function.	MIC Reverb	0 to 127 (Initial Default: 40)
Split point	Can be used to change the range of the lower keyboard and/or the accompaniment keyboard.	Split Point	C2 to C7 (Initial Default: F#3)
Rhythm auto setting	Can be used to disable automatic setting of the tempo and pattern when a rhythm is selected.	Rhythm Auto Set	Off, On (Initial Default: On)
Chord fingering mode Can be used to specify the chord fingering mode.		Chord Mode	CASIO Chord, Fingered 1, Fingered 2, Fingered on Bass, Fingered Assist, Full Range Chord (Initial Default: Fingered 1)
Rhythm Controller Type	Can be used to change the control method of rhythm patterns and fill-ins.	Rhythm Controller Type	Type 1, Type 2 (Initial Default: Type 1)
Rhythm volume level	Can be used to adjust the rhythm volume level.	Rhythm Volume	0 to 127 (Initial Default: 115)
Song volume level	Can be used to adjust the song volume level.	Song Volume	0 to 127 (Initial Default: 127)
Lesson Fingering Voice Guide	Can be used to disable Fingering Voice Guide during lessons.	Fingering Voice Guide	Off, On (Initial Default: On)

Function Name	Description	Display Name	Setting
Lesson Note Sound Guide	Can be used to disable Note Sound Guide during lessons.	Note Sound Guide	Off, On (Initial Default: On)
Lesson Evaluation	Can be used to disable lesson evaluation at the end of a lesson.	Lesson Evaluation	Off, On (Initial Default: On)
Tuning	Can be used to fine tune the overall pitch by changing the frequency of A4 in 0.1Hz units.	Tuning	415.5Hz to 440.0Hz to 465.9Hz (Initial Default: 440.0)
Surround	Can be used to create a more expansive sound.	Surround	Off, On (Initial Default: Off)
AUDIO IN center cancel	Can be used to cancel the center part of audio input using the AUDIO IN jack or Bluetooth audio.	Audio In Center Cancel	Off, On (Initial Default: Off)
MIDI OUT Channel UPPER1	I OUT Channel Can be used to change the		Off, 1 to 16 (Initial Default: 1)
MIDI OUT Channel UPPER2	5		Off, 1 to 16 (Initial Default: 2)
MIDI OUT Channel LOWER	Can be used to change the channel of MIDI messages that are MIDI output by LOWER play.	MIDI Out Ch Lower	Off, 1 to 16 (Initial Default: 3)
MIDI In Navigate	avigate Can be used to it possible to enable use of the NAVIGATE function that causes Keyboard Lighting to be controlled by MIDI IN note messages.		Off, Listen, Right Hand Off, Left Hand Off, Both Hand Off (Initial Default: Off)
MIDI In Navigate Channel Right Hand Can be used to change the channel of the note message that operates as the right-hand melody for the NAVIGATE function.		MIDI In Navi Ch Right	1 to 16 (Initial Default: 4)
MIDI In Navigate Channel Left Hand	Can be used to change the channel of the note message that operates as the left-hand melody for the NAVIGATE function.	MIDI In Navi Ch Left	1 to 16 (Initial Default: 3)
Local Control	Selecting "Off" disables output of sound when something is played on the Digital Keyboard.	Local Control	Off, On (Initial Default: On)
Auto Power Off	Can be used to enable/disable Auto Power Off.	Auto Power Off	Off, On (Initial Default: On)

Function Name	Description	Display Name	Setting
Power-On Alert	Can be used to disable and enable Power-On Alert.	Power-On Alert	Off, On (Initial Default: On)
Battery type	Pe Can be used to specify the type of batteries being used.		Alkaline, Ni-MH (Initial Default: Alkaline)
Display Contrast Can be used to adjust display contrast.		LCD Contrast	1 to 12 (Initial Default: 7)
Button long-press time Can be used to adjust the bu long-press time.		Button Long Press Time	Short, Normal, Long (Initial Default: Normal)
Initialize Can be used to return settings to their initial factory defaults.		Setting Initialize	
Initialize All Can be used to return the entire Digital Keyboard to its initial factory default state.		All Initialize	
Version Information			

N IMPORTANT!

- Keyboard Lighting is disabled while the MIDI IN NAVIGATE function is enabled.
- The settings below are retained even when power is turned off.
 - MIDI OUT Channel (Upper1, Upper2, Lower)
 - MIDI In Navigate
 - MIDI In Navigate Channel (Left hand, right hand)
 - Bluetooth
 - Keyboard Lighting
 - MY SETUP power on recall
 - Auto Power Off
 - Power-On Alert
 - Battery type
 - Display contrast
 - Button long-press time

Returning Settings to Their Initial Factory Defaults

1. Press MENU.

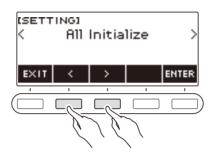
This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes SETTING.

3. Press SETTING.

This displays the setting screen.

4. Use < and > to select "All Initialize".



5. Press ENTER.

This displays "Sure?".

(SET) Sure			ALI	- INIT
васк			NO	YES
<u> </u>	1	1	1	

6. Press YES.

After initialization is complete, the message "Complete" appears for a few seconds, and then the Digital Keyboard restarts.

• To cancel, press NO.



Using a USB Flash Drive

Your Digital Keyboard supports the use of a commercially available USB flash drive to perform the operations below.

- Formatting USB flash drives.
- Saving of Digital Keyboard MY SETUP, recorded song, and other data to a USB flash drive.
- Importing of MY SETUP, recorded song, and other data from a USB flash drive to Digital Keyboard memory.
- Using the Digital Keyboard to play back general song data (MIDI files) copied to a USB flash drive using a computer.
 - For information about copying song data to a USB flash drive, see "Saving Digital Keyboard Data to a USB Flash Drive" (page EN-156).
 - For the song data playback operation, see "Selecting a Song on a USB Flash Drive" (page EN-75).

USB Flash Drive and USB TO DEVICE Port Precautions

N IMPORTANT!

- Be sure to observe the precautions provided in the documentation that comes with the USB flash drive.
- Avoid using a USB flash drive under the following conditions. Such conditions can corrupt data stored on a USB flash drive.
 - Areas subjected to high temperature, high humidity, or corrosive gas
 - Areas subjected to strong electrostatic charge and digital noise
- Never remove the USB flash drive while data is being written to or loaded from it. Doing so can corrupt the data on the USB flash drive and damage the **USB TO DEVICE** port.
- Never insert anything besides a CASIO specified device or a USB flash drive into the USB TO DEVICE port. Doing so creates the risk of malfunction.
- A USB flash drive can become warm after very long use. This is normal and does not indicate malfunction.
- Electrostatic charge discharging from your fingers or the USB flash drive to the **USB TO DEVICE** port can cause malfunction of the Digital Keyboard. If this happens, turn the keyboard off and then back on again.

Copyrights

You are allowed to use recordings for your personal use. Any reproduction of an audio or music format file without the permission of its copyright holder is strictly prohibited under copyright laws and international treaties. Also, making such files available on the Internet or distributing them to third parties, regardless of whether such activities are conducted with or without compensation, is strictly prohibited under copyright laws and international treaties. CASIO COMPUTER CO., LTD. shall not be held in any way liable for any use of this Digital Keyboard that is illegal under copyright laws.

Inserting and Removing a USB Flash Drive on the Digital Keyboard

Supported USB Flash Drives

Your Digital Keyboard supports USB flash drives formatted to FAT (FAT32 or exFAT). If your USB flash drive is formatted to a different file system, use the Windows format function on a computer to reformat it to FAT (FAT32 or exFAT). Do not use quick format.

N IMPORTANT!

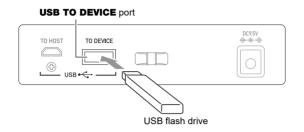
- Never insert anything besides a CASIO specified device or a USB flash drive into the USB TO DEVICE port.
- When you perform a USB flash drive operation or turn on the Digital Keyboard while a USB flash drive is plugged in, the Digital Keyboard initially needs to perform a "mounting" process to prepare for data exchange with the USB flash drive. Digital Keyboard operations are momentarily disabled while a mounting process is being performed.
 - "MOUNTING" is shown on the display while a mounting process is in progress.
 - Do not attempt to perform any operation on the Digital Keyboard while a mounting process is in progress.
 - It may take up to 10 or 20 seconds or even longer for the USB flash drive mounting process to finish.
 - A USB flash drive mounting process needs to be performed each time it is connected to the Digital Keyboard.
- In the case of an exFAT format USB flash drive, the number of importable files may be limited if long file names are used.

NOTE

 Mounting a USB flash drive on this Digital Keyboard creates a folder named "MUSICDAT" in the drive's root directory (if a MUSICDAT folder does not already exist there). Use this folder when exchanging data between the Digital Keyboard and USB flash drive.

Mounting a USB Flash Drive on the Digital Keyboard

- **1** As shown in the illustration below, insert a USB flash drive into the Digital Keyboard's **USB TO DEVICE** port.
 - Carefully push the USB flash drive in as far as it goes. Do not use undue force when inserting the USB flash drive.



Removing a USB Flash Drive From the Digital Keyboard

1 Check to confirm that there is no data exchange operation being performed, and then pull the USB flash drive straight out.

USB Flash Drive Formatting

N IMPORTANT!

- Be sure to format a USB flash drive on the Digital Keyboard before using it for the first time.
- Formatting a USB flash drive deletes all data currently stored on it. Before formatting a USB flash drive, make sure it does not have any valuable data stored on it.
- The format operation performed by this Digital Keyboard is a "quick format". If you want to completely delete all of the data on a USB flash drive, format it on your computer or some other device.

USB flash drive formatting

- **1** Insert the USB flash drive you want to format into the Digital Keyboard's **USB TO DEVICE** port.
- 2. Press MENU.

This displays the menu screen.

3. Use < and > to select the 5 buttons menu that includes MEDIA.

4. Press MEDIA.

This displays the media screen.

(MEDIA)	
EXIT SAVE LOAD	

• This screen does not appear until the mounting process is complete.

5. Use < and > to select the 5 buttons menu that includes FORMAT.

6. Press FORMAT.

This displays "Sure?".

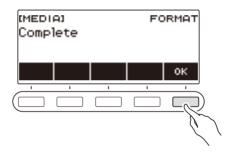
7. Press YES.

This formats the USB flash drive.

• To cancel, press NO.

8. When "Complete" appears on the display, press OK.

This exits the formatting operation.





• Formatting a USB flash drive on the Digital Keyboard creates a folder named "MUSICDAT" in its root directory. Use this folder when exchanging data between the Digital Keyboard and USB flash drive.

USB Flash Drive Operations

The section provides information about the operations below.

- Saving Digital Keyboard data to a USB flash drive
- Importing Data (Files) from a USB Flash Drive to Digital Keyboard Memory
- Deleting Digital Keyboard Importable Data (Files) on a USB Flash Drive
- Renaming Digital Keyboard Importable Data (Files) on a USB Flash Drive

■ Data Types

Data types supported by your Digital Keyboard are those shown in the table below. The text in the "Displayed Type Name" column is displayed for the data type on the Digital Keyboard's LCD.

• Digital Keyboard \rightarrow USB Flash Drive

You can store the data shown in the table below onto a USB flash drive.

Data Type		Displayed Type Name	File Name Extension
Songs	Tone Recording	TONE REC	TRF, MID
	Rhythm Recording	RHYTHM REC	RRF, MID
	Part-off Recording	PART OFF REC	LRF
	Multi-track Recording	MULTI TRACK REC	MRF, MID
MY SETUP		MY SETUP	MYS
All data abo	ve	ALL DATA	DAL

• USB Flash Drive \rightarrow Digital Keyboard

You can import the data shown in the table below from a USB flash drive into Digital Keyboard memory, rename it, and delete it.

Data Type		Displayed Type Name	File Name Extension
Songs	User Songs	USER SONG	CMF, MID
	Tone Recording	TONE REC	TRF
	Rhythm Recording	RHYTHM REC	RRF
	Part Off Recording	PART OFF REC	LRF
	Multi-track Recording	MULTI TRACK REC	MRF
User Rhythms		USER RHYTHM	AC7, CKF, Z00
MY SETUP		MY SETUP	MYS
All data abo	ve	ALL DATA	DAL

N IMPORTANT!

• Even if a file name has one of the extensions shown in the table above, you may not be able to import it into Digital Keyboard memory if the data was created with a non-compatible device, etc.

Saving Digital Keyboard Data to a USB Flash Drive

1 ■ Insert the USB flash drive into the Digital Keyboard's **USB TO DEVICE** port.

2. Press MENU.

This displays the menu screen.

 $\mathbf{3}_{ extsf{s}}$ Use < and > to select the 5 buttons menu that includes MEDIA.

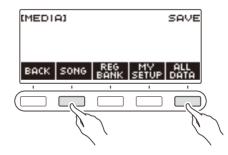
4. Press MEDIA.

This displays the media screen.

5. Press SAVE.

6. Press the button that corresponds to the data type you want to save.

- If you select ALL DATA as the data type, steps 7 and 8 are not necessary. Proceed to step 9.
- If you pressed the SONG button, press the button that corresponds to the type of song data you want to save. If you pressed the TONE button or RHYTHM button as the data type, next select the file type and then advance to step 9. If you pressed the PART OFF button for the data type, advance to step 9.



7 Rotate the dial or use – and + to select the data you want to save.

8. Press SELECT.

• If the data type you want to save is a multi-track recording, you also need to select a file type (file name extension).

9. Rename the file.

• For information about viewing and editing text, see "Inputting Characters" (page EN-22).

10.To confirm the file name, press CONFIRM.

This displays "Sure?".

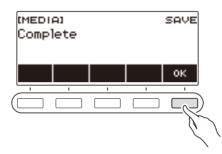
• The message "Replace?" appears if there is already data with the same name in the USB flash drive's "MUSICDAT" folder.

11.Press the YES to save the file.

This saves the file to the USB flash drive.

• To cancel, press NO.

12.When "Complete" appears on the display, press OK.





 When saving Multi-track Recording data as a standard MIDI file (SMF), only the system track data is saved if the system track contains data. If the system track does not contain any data, only the solo track data is saved.

Loading Data From a USB Flash Drive to Digital Keyboard Memory

1. Insert the USB flash drive into the Digital Keyboard's **USB TO DEVICE** port.

2. Press MENU.

This displays the menu screen.

3. Use < and > to select the 5 buttons menu that includes MEDIA.

4. Press MEDIA.

This displays the media screen.

5. Press LOAD.

6. Press the button that corresponds to the type of data you want to load.

• If you pressed SONG, press the button that corresponds to the type of song data you want to load.

IMEDI	A)			LOAD
BACK	RHY	SONG	MY	>
1	IIHM	1	SETUP	1

7. Rotate the dial or use – and + to select the file you want to load.

This displays the file name extension of the selected file.

8. Press SELECT.

• If the data you are importing is tone recording, rhythm recording, part off recording, or all data, advance to step 11.

9. Rotate the dial to select the import destination number.

10.Press SELECT.

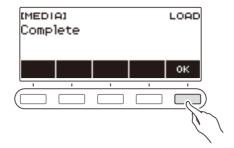
- This displays "Sure?".
- "Replace?" is displayed if data already exists in the destination.

11.Press YES.

This loads the file.

• To cancel, press NO.

12.When "Complete" appears on the display, press OK.



Deleting a USB Flash Drive File

1 Insert the USB flash drive into the Digital Keyboard's **USB TO DEVICE** port.

2. Press MENU.

This displays the menu screen.

3. Use < and > to select the 5 buttons menu that includes MEDIA.

4. Press MEDIA.

This displays the media screen.

5. Press DELETE.

6. Touch the data type of the data you want to delete.

• If you pressed SONG, press the button that corresponds to the song type you want to delete.

[MED]	(MEDIA)		DE	LETE
васк	RHY	SONG	MY.	>
DHCK	THM	20110	SETUP	
(\Box)				

7 Rotate the dial or use – and + to select the file you want to delete.

This displays the file name extension of the selected file.

8. Press SELECT.

This displays "Sure?".

9. Press YES.

This deletes the file.

• To cancel, press NO.

10.When "Complete" appears on the display, press OK.

LETE	
ок	
Ċ	1
	R

Renaming a File on a USB Flash Drive

- ${f 1}$. Insert the USB flash drive into the Digital Keyboard's USB TO DEVICE port.
- 2. Press MENU.

This displays the menu screen.

3. Use < and > to select the 5 buttons menu that includes MEDIA.

4. Press MEDIA.

This displays the media screen.

5. Use < and > to select the 5 buttons menu that includes RENAME.

6. Press RENAME.

- **7**. Press the button that corresponds to the data type you want to rename.
 - If you pressed SONG, press the button that corresponds to the song data you want to rename.

(MED)	A)		RE	NAME
васк	RHV THM	SONG	MV SETUP	>
<u> </u>	1	I	1	
$\overline{\bigcirc}$				

8. Rotate the dial or use – and + to select the file you want to rename.

This displays the file name extension of the selected file.

9. Press SELECT.

10.Rename the file.

• For information about how to edit characters, see "Inputting Characters" (page EN-22).

11.To confirm the file name, press CONFIRM.

This displays "Sure?".

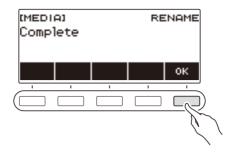
• The message "Replace?" appears if there is already data with the same name in the USB flash drive's "MUSICDAT" folder.

12.Press YES.

This renames the file.

• To cancel, press NO.

13. When "Complete" appears on the display, press OK.





• Changing the letters in a file name from upper case to lower case or vice versa does not count as a name change. Change the file name to something else.

Linking with a Smart Device (APP Function)

You can use the APP function to connect the Digital Keyboard with a phone, tablet or other smart device and perform the operations described below.

- Using the lesson functions of an app on the smart device, playing notes on the Digital Keyboard.
- Using the Digital Keyboard sound source to sound music data played using an app on the smart device.

N IMPORTANT!

• Configure the settings of your smart device (Airplane Mode, etc.) to enable data communication.

■ Downloading the Smart Device App

Download the Chordana Play from the CASIO website and install it on the smart device. https://support.casio.com/global/en/emi/manual/LK-S450/



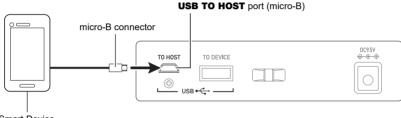
Connecting with a Smart Device

There are two ways to connect with a smart device: using a commercially available USB cable and connection via Bluetooth.

■ Using a Cable to Connect the Digital Keyboard with a Smart Device

For information about the requirements for a cable used for connection, visit the website below. https://web.casio.com/app/en/play/support/connect.html

- Referring to "Downloading the Smart Device App" (page EN-163), install the app on the smart device.
- 2. Use a commercially available USB cable to connect the smart device port to the Digital Keyboard's USB TO HOST port.
 - After connecting the smart device to the Digital Keyboard, use the smart device app to perform operations. For details about operations, refer to the user documentation of the app.



Smart Device

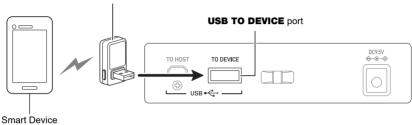
N IMPORTANT!

- Connect using a USB cable that is no more than two meters long.
- Do not connect a USB cable and audio cable to a smart device at the same time.
- If you are connecting with a USB cable, do not use the USB TO DEVICE port if you plan to use the CASIO smart device app.

■ Using Bluetooth to Connect the Digital Keyboard with a Smart Device

You can use the Wireless MIDI & audio adaptor (Option: WU-BT10) for Bluetooth connection.

- Referring to "Downloading the Smart Device App" (page EN-163), install the app on the smart device.
- 2. Plug the Wireless MIDI & audio adaptor into the USB TO DEVICE port (page EN-14).
 - After connecting the smart device to the Digital Keyboard, use the smart device app to perform operations. For details about operations, refer to the user documentation of the app.



Wireless MIDI & audio adaptor

N IMPORTANT!

- Do not perform any Digital Keyboard operation while it is in the process of connecting with the smart device app.
- With a Bluetooth connection, your communication environment or the capabilities of your smart device can cause noticeable communication delay or sound distortion when using the app's lesson function. If this happens, try the countermeasures below.
 - Refer to the app's user documentation and review how to use the lesson function and the information about MIDI playback quality.
 - Use a cable connection instead of Bluetooth.
- If you are connecting with Bluetooth, do not use the **USB TO HOST** port if you plan to use the CASIO smart device app.

Connecting to a Computer and Using MIDI

You can connect the Digital Keyboard to a computer and exchange MIDI data between them. You can record your performance using computer music software, and use the Digital Keyboard to play data sent from a computer.

■ Minimum Computer System Requirements

The following shows the minimum computer system requirements for sending and receiving MIDI data. Be sure to check your computer system setup before trying to install the driver.

• Supported Operating Systems

Windows 8.1*1 Windows 10*2 macOS (OS X/Mac OS X) 10.7, 10.8, 10.9, 10.10, 10.11, 10.12, 10.13, 10.14, 10.15, 11.0

- *1 Windows 8.1 (32-bit versions, 64-bit versions)
- *2 Windows 10 (32-bit versions, 64-bit versions)

• USB port

N IMPORTANT!

 Connecting with a computer running an operating system that is not one of those above can cause malfunction of the computer. Never connect the Digital Keyboard to a computer running a non-supported operating system.



 For the latest news about supported operating systems, visit the website at the URL below. https://support.casio.com/global/en/emi/manual/LK-S450/



Connecting to a Computer

N IMPORTANT!

- Incorrect connections can make data exchange impossible. Be sure to follow the steps of the procedure below.
- **1 .** Turn off the Digital Keyboard and then start up your computer.
 - Do not start up the music software on your computer yet!
- 2. Use a commercially available USB cable to connect your computer to the Digital Keyboard's USB TO HOST port.
 - Use a USB 2.0 or 1.1 A-micro-B connector type USB cable that supports data communication.
- **3.** Turn on the Digital Keyboard.
 - If this is the first time you are connecting, the driver required to transfer data will automatically be installed on your computer.
- 4. Start up commercially available music software on your computer.
- 5. Use the settings of your computer's commercially available music software to select "CASIO USB- MIDI" as the MIDI device.
 - For information about how to select the MIDI device, refer to the user documentation that comes with the music software you are using.

N IMPORTANT!

• Be sure to turn on the Digital Keyboard before starting up your computer's music software.

NOTE

- Once you are able to connect successfully, you can leave the USB cable connected when you turn off your computer and/or this Digital Keyboard.
- For detailed specifications and connections that apply to MIDI data communication by this Digital Keyboard, see the latest support information provided on the website at the URL below. https://support.casio.com/global/en/emi/manual/LK-S450/



■ Configuring MIDI Settings

For about the MIDI settings below, see the "Setting Item List" (page EN-147).

- Keyboard Lighting
- MIDI OUT Channel (Upper1, Upper2, Lower)
- MIDI In Navigate
- MIDI In Navigate Channel (Left hand, right hand)
- Local Control

Using a Cable to Connect with an Audio Device

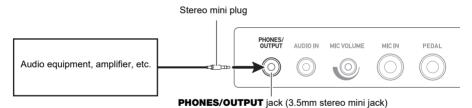
You can connect this Digital Keyboard to a commercially available playback device or amplifier, or to a recording device. You can also use this Digital Keyboard to sound output from a portable audio player or another device, and use that as backing for your keyboard play.

Sounding Output from the Digital Keyboard on an External Device

Connection requires commercially available connecting cords, supplied by you. Use a connecting cord that has a stereo mini plug on one end for connection to this Digital Keyboard, and a plug that matches the configuration of the input jack of external device on the other end.

N IMPORTANT!

- Turn off the external device and the Digital Keyboard before connecting them. Before turning power on or off, turn down the volume level of this Digital Keyboard and external devices.
- After connecting, turn on this Digital Keyboard first and then the external device.
- If this Digital Keyboard's notes are distorted when they are sounded on an external audio device, lower the Digital Keyboard's volume level.
- The headphones you use must have a 3.5mm 3-pole stereo mini plug. Use of other types of plugs is not supported.

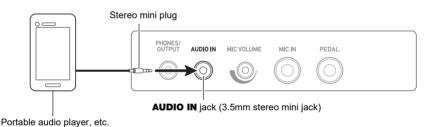


Sounding Input From an External Device on This Digital Keyboard

Connection requires commercially available connecting cords, supplied by you. The connecting cord should have a stereo mini plug on one end for connection to this Digital Keyboard and a plug that matches the configuration of the output jack of external device on the other end. When sounding input from an external device with this Digital Keyboard, use the external device controls to adjust the volume level. In this case, you cannot adjust the volume level on this Digital Keyboard.

N IMPORTANT!

- Turn off this Digital Keyboard before connecting. Before turning power on or off, turn down the volume level of the Digital Keyboard and external devices.
- After connecting, turn on the external device and then this Digital Keyboard.
- If external device notes sounded by this Digital Keyboard are distorted, lower the external device's volume level.
- If the volume level of the external device notes sounds by this Digital Keyboard is lower than the volume level of the notes you are playing on the keyboard, adjust the volume balance of the Digital Keyboard. See "Changing the Volume Balance Between Keyboard Play and Rhythm Play (Balance)" on page EN-52.
- Setting the volume level of the external device too high can cause Digital Keyboard power to turn off in order to protect it against damage. If this happens, lower the volume of the external device.
- The end of the connecting cord you connect to the Digital Keyboard must have a 3.5mm 3pole stereo mini plug. Use of other types of plugs is not supported.



■ AUDIO IN center cancel (Vocal Cut)

Enabling Vocal Cut cuts (mutes or minimizes) the vocal part in the sound being input with the **AUDIO IN** jack or Bluetooth audio. Note that this function cancels the sound in the center position of the audio, which may (depending on how the original audio was mixed) end up canceling something else other than the vocal part. How vocal cut is performed depends on the sound being input. For information about how to configure settings, see the "Setting Item List" (page EN-147).

NOTE

• Built-in effects (reverb) of the Digital Keyboard are not applied to AUDIO IN jack input.

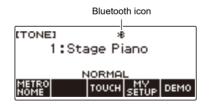
Sounding a Bluetooth Audio Capable Device (Bluetooth Audio Pairing)

You can use a Wireless MIDI & audio adaptor (optional: WU-BT10) to pair this Digital Keyboard with an external Bluetooth audio capable audio device and then playback from the external device through this Digital Keyboard's speakers.

N IMPORTANT!

- Before performing the pairing operation, turn down the volume levels of this Digital Keyboard and the external device.
- If external device notes sounded by this Digital Keyboard are distorted, lower the external device's volume level.
- If the volume level of the external device notes sounds by this Digital Keyboard is lower than the volume level of the notes you are playing on the keyboard, adjust the volume balance of the Digital Keyboard. See "Changing the Volume Balance Between Keyboard Play and Rhythm Play (Balance)" on page EN-52.
- Setting the volume level of the external device too high can cause Digital Keyboard power to turn off in order to protect it against damage. If this happens, lower the volume of the external device.
- Due to Bluetooth characteristics you may notice some lag in notes. If that happens, connect using a USB cable.
- **1** I Long-press the 0 (Power) button to turn off the Digital Keyboard.
- 2. Plug the Wireless MIDI & audio adaptor into the USB TO DEVICE port (page EN-14).
- 3. Press the ॑ (Power) button to turn on the Digital Keyboard.

This displays the Bluetooth icon.



4. Press MENU.

This displays the menu screen.

5. Use < and > to select the 5 buttons menu that includes BLUETOOTH.

6. Press BLUETOOTH.

This displays the Bluetooth screen.



7. Press PAIRING.

This displays the Bluetooth audio pairing screen with "Pairing" shown, indicating Bluetooth audio pairing.



- A broken line is under the Bluetooth icon while the Digital Keyboard is Bluetooth audio paired with another device.
- To stop Bluetooth audio pairing, press CANCEL.
- 8. Use the setting screen of the Bluetooth-capable audio device to select "WU-BT10 AUDIO" to pair with this Digital Keyboard.

Connecting with a Bluetooth audio-capable device causes "AUDIO" to appear on the Digital Keyboard display.



• This causes a solid line to appear under the Bluetooth icon.

9. Produce sound on the Bluetooth audio capable device.

Output from the audio Bluetooth capable device will sound from the Digital Keyboard's speakers.

NOTE

- Turn on Bluetooth on both this Digital Keyboard and on the Bluetooth audio capable device.
- For information about how to change this Digital Keyboard's Bluetooth settings, see "Turning Off Bluetooth" (page EN-176).
- Information about the last Bluetooth audio capable devices connected to this Digital Keyboard is registered by the Wireless MIDI & audio adaptor. Because of this, it can automatically perform Bluetooth audio pairing with the same device, so you will not need to perform the Bluetooth audio pairing operation again.

Deleting Bluetooth Audio Capable Device Pairing Registration

- Performing the procedure below will delete the pairing registration between this Digital Keyboard and it's currently paired Bluetooth audio capable device. If you are experiencing connectivity problems with a Bluetooth audio capable device, perform the procedure below and then perform the procedure under "Sounding a Bluetooth Audio Capable Device (Bluetooth Audio Pairing)" (page EN-170).
- After performing the procedure below, you should also clear this Digital Keyboard's pairing registration on the Bluetooth audio capable device. For information about how to do this, refer to the user documentation of each Bluetooth audio device.
- 1. Long-press the 也 (Power) button to turn off the Digital Keyboard.
- 2. Plug the Wireless MIDI & audio adaptor into the USB TO DEVICE port (page EN-14).
 - You cannot delete a Bluetooth audio pairing registration unless a Wireless MIDI & audio adaptor is connected to the Digital Keyboard.
- 3. Press 也 (Power) to turn on the Digital Keyboard.

4. Press MENU.

This displays the menu screen.

5. Use < and > to select the 5 buttons menu that includes BLUETOOTH.

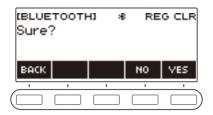
6. Press BLUETOOTH.

This displays the Bluetooth screen.



7. Press REG CLEAR.

This displays "Sure?".



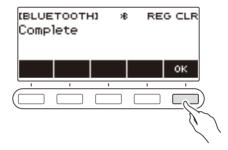
8. Press YES.

This deletes the Bluetooth audio pairing registration.

• To cancel, press the NO button.

9. When "Complete" appears on the display, press OK.

This exits the Bluetooth audio-capable pairing registration delete operation.



Connecting with a Bluetooth MIDI Capable Device

You can use a Wireless MIDI & audio adaptor (optional WU-BT10) to pair this Digital Keyboard with a Bluetooth MIDI-capable audio device.

- 1 Long-press ↺ (Power) to turn off the Digital Keyboard.
- 2. Plug the Wireless MIDI & audio adaptor into the USB TO DEVICE port (page EN-14).
- 3. Press ↺ (Power) to turn on the Digital Keyboard.
- **4.** Use the setting screen of the app you installed on your Bluetooth-capable MIDI device to select "WU-BT10 MIDI" and connect with the Digital Keyboard.

Connecting with a Bluetooth MIDI-capable device causes "MIDI" to appear on the display.



N IMPORTANT!

• Do not perform any Digital Keyboard operation while it is in the process of connecting with a Bluetooth MIDI capable device.

- Turn on Bluetooth on both this Digital Keyboard and on the Bluetooth MIDI capable device.
- For information about this Digital Keyboard's Bluetooth function, see "Turning Off Bluetooth" (page EN-176).
- You need to perform the above operation each time you connect with a Bluetooth capable MIDI device.

Turning Off Bluetooth

You can use the procedure below to turn off Bluetooth if you do not need to connect via Bluetooth using the Wireless MIDI & audio adaptor (Option: WU-BT10).

1. Press MENU.

This displays the menu screen.

2. Use < and > to select the 5 buttons menu that includes BLUETOOTH.

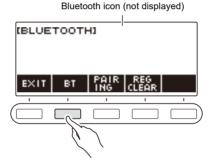
3. Press BLUETOOTH.

This displays the Bluetooth screen.



4. Press BT.

This turns off Bluetooth, which causes "BT" and the Bluetooth icon to disappear from the display.



5. To turn Bluetooth on, press BT again.

This displays "BT" and the Bluetooth icon.

Troubleshooting

	Symptom	Required Action
In	cluded Accessories	
	I can't find included items during unpacking.	Carefully check inside all of the packing materials.
P	ower Requirements	
	Power does not turn on.	 Check the AC adaptor or make sure that the batteries are facing correctly (page EN-8). Replace the batteries with new ones. Or use AC adaptor power (page EN-8).
	When () (Power) is pressed, the display appears momentarily, but power does not turn on.	Press 🔱 (Power) to turn power back on.
	The Digital Keyboard suddenly turns off after outputting a loud sound.	 Replace the batteries with new ones. Or use AC adaptor power (page EN-8). Lower the volume of the external device.
	The Digital Keyboard suddenly turns off after about 30 minutes.	Disable Auto Power Off (page EN-26).
Di	splay Name	
	The display keeps going dark or keeps flickering.	Replace the batteries with new ones (page EN-9). Or use AC adapter power (page EN-8).
	Screen contents are visible only from a fixed angle.	This is due to the Digital Keyboard's production limitations. It does not indicate malfunction.
S	ound	
	Nothing happens when I press a keyboard key.	 Adjust the volume level (page EN-28). Confirm that nothing is plugged into the PHONES/ OUTPUT jack on the back of the Digital Keyboard. Try turning this Digital Keyboard off and then back on again (page EN-25) to initialize settings.
	Nothing happens or notes do not play normally when I play on the accompaniment (left-side) keyboard.	Press ACCMP to disable chord play with the accompaniment keyboard (page EN-108).
	With some songs, the left-hand part you play on the keyboard does not sound during song part practice (left hand or both hands).	When doing a left-hand part lesson with a song that includes chord information (songs that have only melody notes for right-hand part play), nothing sounds when you play something on the left-hand part keyboard. Play chords following the Keyboard Lighting guide.

Symptom	Required Action
Nothing happens when I start an Auto Accompaniment.	 With rhythms 191 to 200, nothing sounds if you do not play a chord on the keyboard. Try playing a chord (page EN-109). Check and adjust the rhythm volume level (page EN-100). Auto Accompaniment does not start if ▶/■ is pressed while there are no user rhythms stored in rhythm numbers 201 through 210 (page EN-118). Try turning the Digital Keyboard off and then back on again (page EN-25) to initialize settings.
Nothing happens when I start playing a song's Auto Accompaniment.	 It takes a little time after you press the button until the song starts to play. Wait for the song to start. Check and adjust the song volume level (page EN-74). Song play does not start if ▶/■ is pressed while there is no song data stored in song numbers 161 through 368 (pages EN-80, EN-122). Try turning the Digital Keyboard off and then back on again (page EN-25) to initialize settings.
The metronome does not sound.	 Check and adjust the metronome volume level (page EN-32). Try turning the Digital Keyboard off and then back on again (page EN-25) to initialize settings.
Notes keep sounding, without stopping.	 Try turning the Digital Keyboard off and then back on again (page EN-25) to initialize settings. Replace the batteries with new ones. Or use AC adaptor power (page EN-8).
Some notes are cut off while they are playing.	This happens whenever the number of notes being sounded exceeds the maximum polyphony value of 48 (24 for some tones). It does not indicate malfunction.
Sounds skip while I am practicing in the EASY Mode.	In the EASY Mode, play on the keyboard by following the timing of the keys that light. If you press multiple keyboard keys simultaneously at the wrong timing, sounds may seem like they are skipping. If this happens, make sure that you press one keyboard key at a time.
The volume level or tone setting I configured has changed.	 Adjust the volume level (page EN-28). Try turning the Digital Keyboard off and then back on again (page EN-25) to initialize settings. Replace the batteries with new ones. Or use AC adaptor power (page EN-8).
With certain volume levels and tones, the sound of notes played in one keyboard range will sound different from those played in another keyboard range.	This is due to system limitations and does not indicate malfunction.

	Symptom	Required Action	
	With some tones, octaves do not change at the far ends of the keyboard.	This is due to system limitations, and does not indicate malfunction.	
	The pitch of the notes does not match other accompanying instruments or notes sound strange when played along with other instruments.	 Check and adjust the transpose setting (page EN-55) and tuning setting (page EN-56). Try turning the Digital Keyboard off and then back on again (page EN-25) to initialize settings. 	
	The reverb of notes seems to change suddenly.	 Check and adjust the reverb setting (page EN-42). Try turning the Digital Keyboard off and then back on again (page EN-25) to initialize settings. 	
0	peration		
	Tone, rhythm, and other settings revert to their initial defaults whenever I turn on the Digital Keyboard.	Turning power off and then back on again initializes Digital Keyboard settings (page EN-25).	
C	onnecting to a computer		
	I can't send or receive MIDI data.	 Check to make sure that the USB cable is connected to the Digital Keyboard and your computer, and that the correct device is selected with your computer's music software (page EN-166). Turn off the Digital Keyboard and then exit the music software on your computer. Next, turn the Digital Keyboard back on and then restart the music software on your computer. 	

Error Indicators

Display Name	Cause	Action		
Measure Limit	You are attempting to record more than 1,000 measures.	Make your recordings up to 999 measures long.		
Memory Full	You are attempting a recording that exceeds the allowable per-song size limit.	Keep song recordings with the allowable per-song size limit		
Data Full	You are attempting to copy a Tone Recording and Rhythm Recording as a Multi-track Recording when there is no empty Multi-track Recording number.	Delete one or more of the multi-track recordings in memory.		
No Media	The USB flash drive is not plugged correctly into the Digital Keyboard's USB TO DEVICE port.	Plug the USB flash drive correctly into the USB TO DEVICE port.		
	The USB flash drive was removed while some operation was in progress.	Do not remove the USB flash drive while any operation is in progress.		
	The USB flash drive is write-protected.	Write-enable the USB flash drive.		
	The USB flash drive is protected by anti- virus software.	Use a USB flash drive that is not protected by anti-virus software.		
No File	There is no loadable or playable file in the "MUSICDAT" folder.	Move the file you want to load or play to the "MUSICDAT" folder.		
Read Only	A read-only file with the same name you	Use a different name.		
	are trying to use is already stored on the USB flash drive.	Remove the read-only attribute from the existing USB flash drive file and overwrite it with the new data you want to save.		
		Move the file USB flash drive file into its "MUSICDAT" folder.		
Media Full	There is not enough room available on the USB flash drive.	Delete some of the files on the USB flash drive to make room for new data.		
		Use a different USB flash drive.		
Not SMF 0/1	You are attempting to load or play back an SMF Format 2 file.	The Digital Keyboard supports SMF Format 0 or Format 1 files only.		
Size Too Large	The file on the USB flash drive is too large to import and play on the Digital Keyboard.	In the case of a standard MIDI file, use a file whose size is 320 KB maximum.		
Wrong Data	The file on the USB flash drive is corrupted.	Use a file that is not corrupted.		

Display Name	Cause	Action
Version Not Supported	The USB flash drive file version is not supported by the Digital Keyboard.	Use a version that is supported by the Digital Keyboard.
Unformatted	The USB flash drive format is not compatible with the Digital Keyboard.	Use a computer to format the USB flash drive to a format that is compatible with the Digital Keyboard
	The USB flash drive is corrupted.	Use a different USB flash drive.

Product Specifications

Model	LK-S450
Keyboard	61 keys
Touch Response	3 types, Off
Keyboard Lighting	Maximum number of keys simultaneously lit: 10, can be disabled
Maximum Polyphony	48 notes
Tones	
Preset Tones	600
Other	Layer, Split, Sustain
Effects	Reverb (20 types, Off); Chorus (10 types, Tone); DSP (Built into some tones)
Master Effects	Equalizer (10 presets)
Active Effects	Volume sync equalizer, Surround
External Input Effects	Vocal Cut. Cancels the vocal (center) part in audio input using the AUDIO IN terminal or Bluetooth audio.
Metronome	
Beat	Beat chime off, 1 to 16 beats
Tempo	20 to 255
Song Bank	
Built-in Songs	160
User Songs	200*1
Part Off	Left hand, right hand, both hands
Lesson	
Lesson Type	3 steps (LISTEN, WATCH, REMEMBER); EASY Mode, Challenge Mode
Lesson part	Left hand, right hand, both hands
Other	AB Loop, Fingering Voice Guide, Note Sound Guide, Performance Evaluation
Auto Accompaniment	
Preset Rhythms	200 types
User Rhythms	10 types*2
One Touch Presets	200 types
Other	INTRO, ENDING; chord fingering mode switching
Chord Book	Chord Sound Guide
Demo Function	Built-in Song Bank (110 songs)
Function Volume Adjustment	Metronome; Rhythm; Song
MIDI Recorder	Real-time recording, playback
Tone Recording	1
Rhythm Recording	1
Part off Recording	1
Multi-track Recording	5 songs, 6 tracks (1 system track, 5 solo tracks)
Capacity	1 song, approximately 40,000 notes

04 5 4	
Other Functions	
Transpose	±1 octave (–12 to 0 to +12 semitones)
Octave Shift	-3 to 0 to +3 octaves
Tuning	A4 = 415.5 to 465.9Hz (Initial Default: 440.0Hz)
Scales	17 preset scales
APP Function	
Supported Devices	iOS, Android (USB terminal connection)
MIDI Function	16-channel multi-timbre receive; GM Level 1 standard
Jacks	
PHONES/OUTPUT jack	Stereo mini jack (3.5 mm)
MIC IN jack	Standard jack (6.3 mm) (dynamic microphone connection); (Input impedance: 3 k Ω ; Input sensitivity: 10 mV)
AUDIO IN jack	Stereo mini jack (3.5 mm) (Input impedance: 10 k Ω ; Input sensitivity: 200 mV)
USB TO HOST port	micro-B
USB TO DEVICE port	Туре А
PEDAL jack	Standard jack (6.3 mm) (pedal sustain, sostenuto, soft, start/stop, fill-in)
AC adapter terminal	9.5V DC
Power Requirements	2-Way Power
Batteries	6 AA-size alkaline batteries or AA-size rechargeable nickel-metal hydride batteries
Continuous Operation	Approximately 3 hours (alkaline batteries), approximately 3 hours (rechargeable nickel-metal hydride batteries)* ³
	Actual continuous operation time may be shorter due to battery type, performance type, and usage environment.
AC adapter	AD-E95100L (JEITA Standard with unified polarity plug)
Auto Power Off	After approximately 30 minutes of non-operation; Can be disabled.
Speakers	13 cm × 6 cm (oval) × 2 (Output: 2.5 W + 2.5 W)
Power Consumption	9.5 V 7.5 W
LCD	Adjustable contrast
Dimensions	93.0 (W) × 25.8 (D) × 8.4 (H) cm (36 5/8 × 10 3/16 × 3 5/16 inch)
Weight	Approximately 4.6 kg (10.1 lbs) (Excluding batteries)

*1 Maximum capacity per song: Approximately 320 kilobytes

*2 Maximum capacity per rhythm: Approximately 64 kilobytes

*3 Measured values while using eneloop batteries. eneloop is a registered trademark of Panasonic Corporation.

• Specifications and designs are subject to change without notice.

AC Adaptor Handling Precautions

Model: AD-E95100L

- 1. Read these instructions.
- 2. Keep these instructions on hand.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this product near water.
- 6. Clean only with a dry cloth.
- Do not install near radiators, heat registers, stoves, or any other source of heat (including amplifiers).
- 8. Use only attachments and accessories specified by the manufacturer.
- 9. Refer all servicing to qualified service personnel. Servicing is required after any of the following occurs: when the product is damaged, when the power supply cord or plug is damaged, when liquid is spilled into the product, when a foreign object falls into the product, when the product is exposed to rain or moisture, when the product does not operate normally, when the product is dropped.
- 10. Do not allow the product to be exposed to dripping or splashing liquid. Do not place any object containing liquid on the product.
- 11. Do not allow the electrical load output to exceed the label rating.
- 12. Make sure the surrounding area is dry before plugging into a power source.
- 13. Make sure the product is oriented correctly.
- 14. Unplug the product during lightning storms or when you do not plan to use it for a long time.
- 15. Do not allow product ventilation openings to become blocked. Install the product in accordance with the manufacturer's instructions.
- 16. Take care the power cord is located where it will not be stepped upon or bent severely, particularly in locations close to plugs and convenience receptacles, and in locations where it exits from the product.
- 17. The AC adaptor should be plugged into a power outlet as close to the product as possible to allow immediate disconnection of the plug in case of emergency.

The symbol below is an alert indicating un-insulated hazardous voltage inside the product's enclosure, which may be sufficient to constitute the risk of electric shock to users.



The symbol below is an alert indicating the presence of important operating and maintenance (servicing) instructions in the documentation that accompanies the product.



Song List

No.	Title
PIANO/0	CLASSICS
1	FÜR ELISE
2	LA PRIÈRE D'UNE VIERGE
3	VALSE op.64 no.1 "PETIT CHIEN"
4	TURKISH MARCH (MOZART)
5	TRÄUMEREI
6	ETUDE op.10 no.3 "CHANSON DE L'ADIEU"
7	LIEBESTRÄUME no.3
8	NOCTURNE op.9 no.2 (CHOPIN)
9	CANON (PACHELBEL)
10	JE TE VEUX
11	MARY HAD A LITTLE LAMB
12	LE CYGNE FROM "LE CARNAVAL DES ANIMAUX"
13	SONATA op.13 "PATHÉTIQUE" 2nd Mov.
14	HEIDENRÖSLEIN
15	AIR FROM "SUITE no.3"
16	SPRING FROM "THE FOUR SEASONS"
17	HABANERA FROM "CARMEN"
18	BRINDISI FROM "LA TRAVIATA"
19	HUNGARIAN DANCES no.5
20	MINUET IN G MAJOR
21	MUSETTE IN D MAJOR
22	ECOSSAISE IN G MAJOR
23	GAVOTTE (GOSSEC)
24	ARABESQUE (BURGMÜLLER)
25	
26 27	DECK THE HALL ODE TO JOY
28	AVE MARIA (GOUNOD)
20	SONATINA op.36 no.1 1st Mov.
30	PRELUDE op.28 no.7 (CHOPIN)
30	RÊVERIE
32	GYMNOPÉDIES no.1
	GOING HOME FROM "FROM THE NEW
33	WORLD"
34	BRIDAL MARCH FROM "LOHENGRIN"
35	SONATA op.27 no.2 "MOONLIGHT" 1st Mov.
36	THE ENTERTAINER
37	WEDDING MARCH FROM "MIDSUMMER NIGHT'S DREAM"
38	AMERICAN PATROL
39	FRÖHLICHER LANDMANN
40	LA VIOLETTE
41	SPINNERLIED
42	LA CHEVALERESQUE
43	SONATINE op.20 no.1 1st Mov.
44	SONATA K.545 1st Mov.
45	GAVOTTE FROM "FRANZÖSISCHE SUITE ?"

	•
No.	Title
46	JESUS BLEIBET MEINE FREUDE
47	SERENADE FROM "EINE KLEINE NACHTMUSIK"
48	MARCH FROM "THE NUTCRACKER"
49	CHANSON DU TOREADOR FROM "CARMEN"
50	LARGO (HÄNDEL)
51	INNOCENCE
52	PROMENADE FROM "TABLEAUX D'UNE EXPOSITION"
53	INVENTIONEN no.1
54	PRAELUDIUM no.1 (J.S.BACH)
55	DOLLY'S DREAMING AND AWAKENING
56	LA FILLE AUX CHEVEUX DE LIN
57	HUMORESKE (DVOŘÁK)
58	ARABESQUE no.1 (DEBUSSY)
59	MAPLE LEAF RAG
60	MELODY IN F
EVENT	
61	SILENT NIGHT
62	JINGLE BELLS
63	WE WISH YOU A MERRY CHRISTMAS
64	JOY TO THE WORLD
65	O CHRISTMAS TREE
WORLD	
66	WHEN THE SAINTS GO MARCHING IN
67	GREENSLEEVES
68	ANNIE LAURIE
69	HOME ON THE RANGE
70	AMAZING GRACE
71	LONG LONG AGO
72	TWINKLE TWINKLE LITTLE STAR
73	GRANDFATHER'S CLOCK
74	SANTA LUCIA
75	TROIKA
76	LIGHTLY ROW
77	ON TOP OF OLD SMOKEY
78	AULD LANG SYNE
79	COME BIRDS
80	DID YOU EVER SEE A LASSIE?
81	MICHAEL ROW THE BOAT ASHORE
82	DANNY BOY
83	MY BONNIE
84	HOME SWEET HOME
85	AURA LEE
86	ALOHA OE
87	JOSHUA FOUGHT THE BATTLE OF JERICHO
88	THE MUFFIN MAN
89	LONDON BRIDGE

No.	Title
NO.	UNDER THE SPREADING CHESTNUT
90	TREE
91	SIPPIN' CIDER THROUGH A STRAW
92	BEAUTIFUL DREAMER
93	IF YOU'RE HAPPY AND YOU KNOW IT, CLAP YOUR HANDS
94	MY DARLING CLEMENTINE
95	LITTLE BROWN JUG
96	HOUSE OF THE RISING SUN
97	SHE WORE A YELLOW RIBBON
98	YANKEE DOODLE
99	MY OLD KENTUCKY HOME
100	SZLA DZIEWECZKA
101	WALTZING MATILDA
102	ON THE BRIDGE OF AVIGNON
103	I'VE BEEN WORKING ON THE RAILROAD
104	OH! SUSANNA
105	CAMPTOWN RACES
106	JEANNIE WITH THE LIGHT BROWN HAIR
107	TURKEY IN THE STRAW
108	JAMAICA FAREWELL
109	FURUSATO
110	SAKURA SAKURA
EXERCI	SE*
111-	EXERCISE1-50
160	
USER S	ONG
161- 360	User Song 1-200
USER R	ecording
361	Tone Recording
362	Rhythm Recording
363	Part off Recording
364- 368	Multi-track Recording
USB SO	NG
369- 999	USB flash drive song

- * A collection of songs for finger training. They may also provide some mental stimulation.
 - The level of mental stimulation depends on the individual.
 - This product is not a medical device.

Tone List

No.	Tone Name	Program Change	Bank Select MSB	Bank Select LSB	DSP Tone	Part Octave Shift
PIANO				-		
1	STAGE PIANO	0	1	0	~	0
2	GRAND PIANO	0	3	0		0
3	BRIGHT PIANO	1	1	0	✓	0
4	MELLOW PIANO	0	2	0	√	0
5	POP PIANO	0	32	0	✓	0
6	ROCK PIANO	1	2	0	✓	0
7	DANCE PIANO	1	3	0	~	0
8		1	4	0		0
9	TACK PIANO	0	33	0		0
10	MONO PIANO	0	4	0		0
11	HONKY-TONK	3	32	0		0
12	OCTAVE PIANO	3	33	0		0
13	WIDE GRAND PIANO	0	5	0		0
14	STRINGS PIANO	0	34	0		0
15	PIANO PAD	0	35	0		0
16	ELEC.GRAND PIANO	2	32	0		0
17	MODERN E.G.PIANO	2	33	0		0
18	HARPSICHORD 1	6	1	0		0
19	HARPSICHORD 2	6	32	0		0
20	COUPLED HARPSICHORD	6	33	0	~	0
ELEC.F		1		-	1	
21	GALAXIA EP	5	32	0		0
22	DYNAMIC EP	4	32	0		0
23	LUCENT EP	5	33	0	~	0
24	ELEC.PIANO 1	4	1	0	✓	0
25	ELEC.PIANO 2	4	2	0	✓	0
26	ELEC.PIANO 3	4	3	0	~	0
27	ELEC.PIANO 4	4	4	0		0
28	ELEC.PIANO 5	5	34	0		0
29	ELEC.PIANO 6	4	5	0		0
30	60'S E.PIANO	4	6	0	~	0
31	DYNO E.PIANO	4	33	0	~	0
32	DIGITAL E.PIANO 1	5	1	0		0
33	DIGITAL E.PIANO 2	5	2	0		0
34	DIGITAL E.PIANO 3	5	3	0		0
35	PHASER E.PIANO	4	7	0	~	0
36	WIDE E.PIANO	4	8	0		0
37	MELLOW E.PIANO	4	9	0		0
38	E.PIANO PAD	4	34	0		0
39	CLAVI 1	7	1	0		0
40	CLAVI 2	7	32	0		0
41	CLAVI 3	7	2	0		0
42	CLAVI 4	7	33	0		0
43	CLAVI 5	7	3	0		0
44	VIBRAPHONE 1	11	1	0	~	0
45	VIBRAPHONE 2	11	2	0		0
46	VIBRAPHONE WIDE	11	3	0		0

No.	Tone Name	Program Change	Bank Select MSB	Bank Select LSB	DSP Tone	Part Octave Shift
47	MARIMBA	12	32	0		0
48	XYLOPHONE	13	1	0		0
49	CELESTA	8	1	0		1
50	GLOCKENSPIEL	9	1	0		1
51	MUSIC BOX	10	32	0		1
52	TUBULAR BELL	14	32	0		0
53	CHURCH BELLS	14	33	0	~	0
ORGA	N					-
54	JS ORGAN	17	32	0	~	0
55	RTF FD ORGAN	16	32	0	~	0
56	ROCK OD ORGAN	18	32	0	~	0
57	TREMOLO ORGAN	16	5	0	~	0
58	DP ORGAN	16	4	0	~	0
59	JAZZ ORGAN 1	17	33	0	✓	0
60	JAZZ ORGAN 2	17	34	0	~	0
61	ELEC.ORGAN 1	16	1	0	~	0
62	ELEC.ORGAN 2	16	2	0	~	0
63	ELEC.ORGAN 3	16	33	0	~	0
64	ELEC.ORGAN 4	16	34	0	~	0
65	ELEC.ORGAN 5	16	35	0	✓	0
66	PERC.ORGAN 1	17	1	0	~	0
67	PERC.ORGAN 2	17	35	0	~	0
68	GOSPEL ORGAN	17	38	0	✓	0
69	FULL DRAWBAR	16	3	0	✓	0
70	ROCK ORGAN 1	18	1	0	~	0
71	ROCK ORGAN 2	18	2	0	✓	0
72	CLICK ORGAN	17	37	0	~	0
73	70'S ORGAN	17	36	0	✓	0
74	ORGAN PAD	16	6	0		0
75	PIPE ORGAN 1	19	32	0		0
76	PIPE ORGAN 2	19	33	0		0
77	PIPE ORGAN 3	19	2	0		0
78	CHAPEL ORGAN	19	34	0		0
79	THEATER ORGAN	19	1	0		0
80	ACCORDION FRENCH 1	21	32	0		0
81	ACCORDION FRENCH 2	21	33	0		0
82	ACCORDION FRENCH 3	21	34	0		0
83	ACCORDION ITALY 1	21	1	0		0
84	ACCORDION ITALY 2	21	35	0		0
85	ACCORDION	21	2	0		0
86	BANDONEON	23	32	0		0
87	BANDONEON SOLO	23	1	0		0
GUITA	R					
88	NYLON GUITAR VELO.SLIDE	24	32	0		0
89	STEEL GUITAR VELO.SLIDE	25	32	0		0
90	NYLON STR.GUITAR 1	24	1	0		0
91	NYLON STR.GUITAR 2	24	2	0		0
92	NYLON STR.GUITAR 3	24	4	0	✓	0
93	STEEL STR.GUITAR 1	25	1	0		0
94	STEEL STR.GUITAR 2	25	2	0		0

No.	Tone Name	Program Change	Bank Select MSB	Bank Select LSB	DSP Tone	Part Octave Shift
95	STEEL STR.GUITAR 3	25	3	0		0
96	STEEL STR.GUITAR 4	25	4	0		0
97	12 STR.GUITAR	25	5	0		0
98	JAZZ GUITAR 1	26	1	0		0
99	JAZZ GUITAR 2	26	32	0		0
100	OD OCT JAZZ GUITAR	26	2	0	~	0
101	CRUNCH JAZZ GUITAR	26	3	0	~	0
102	CLEAN GUITAR 1	27	32	0	✓	0
103	CLEAN GUITAR 2	27	1	0	~	0
104	CLEAN GUITAR 3	27	2	0	~	0
105	CLEAN GUITAR 4	27	3	0		0
106	CLEAN GUITAR 5	27	4	0		0
107	CLEAN GUITAR 6	27	33	0		0
108	CLEAN GUITAR 7	27	7	0		0
109	CHORUS CLEAN GUITAR 1	27	5	0	~	0
110	CHORUS CLEAN GUITAR 2	27	6	0		0
111	WAH CLEAN GUITAR	27	34	0	√	0
112	CRUNCH ELEC.GUITAR 1	29	3	0	✓	0
113	CRUNCH ELEC.GUITAR 2	29	32	0	✓	0
114	CRUNCH ELEC.GUITAR 3	27	8	0		0
115	CHORUS CRUNCH GUITAR	29	4	0	√	0
116	MUTE GUITAR	28	1	0		0
117	CRUNCH MUTE GUITAR	28	2	0	✓	0
118	OVERDRIVE MUTE GT	28	5	0		0
119	PHASER MUTE GUITAR	28	3	0	✓	0
120	AMBIENT MUTE GUITAR	28	4	0	✓	0
121	HUM BLUES GUITAR	29	5	0	√	0
122	OVERDRIVE GUITAR 1	29	1	0	✓	0
123	OVERDRIVE GUITAR 2	29	2	0		0
124	LFO WAH OD GUITAR	29	6	0	✓	0
125	WAH OD GUITAR	29	33	0	√	0
126	CRY OD GUITAR	29	34	0	✓	0
127	FLANGER OD GUITAR	29	35	0	√	0
128	DISTORTION GT 1	30	1	0	✓	0
129	DISTORTION GT 2	30	2	0	√	0
130	DISTORTION GT 3	30	3	0	✓	0
131	DISTORTION GT 4	30	5	0		0
132	WAH DIST GUITAR	30	4	0	✓	0
133	MANDOLIN	25	40	0		0
134	UKULELE	24	3	0		0
135	VERSATILE NYLON GUITAR	24	8	0		0
136	VERSATILE STEEL GUITAR	25	8	0		0
137	VERSATILE SINGLE COIL E.GUITAR	27	9	0		0
BASS						
138	ACOUSTIC BASS 1	32	1	0		-1
139	FINGERED BASS 1	33	6	0		-1
140	FINGERED BASS 2	33	5	0		-1
141	FINGERED BASS VELO.SLAP 1	33	33	0		-1
142	FINGERED BASS VELO.SLAP 2	33	32	0		-1
143	SLAP BASS 1	36	1	0		-1

No.	Tone Name	Program Change	Bank Select MSB	Bank Select LSB	DSP Tone	Part Octave Shift
144	FINGER SLAP BASS 1	36	5	0		-1
145	SYNTH-BASS 1	39	3	0		-1
146	ACOUSTIC BASS 2	32	32	0	√	-1
147	RIDE BASS	32	33	0		-1
148	FINGERED BASS 3	33	1	0		-1
149	FINGERED BASS 4	33	2	0		-1
150	FINGERED BASS 5	33	3	0		-1
151	FINGERED BASS 6	33	4	0		-1
152	FINGERED BASS 7	33	7	0		-1
153	CHORUS FINGERED BASS	33	8	0	✓	-1
154	WAH FINGERED BASS	33	9	0	√	-1
155	PICKED BASS 1	34	1	0		-1
156	PICKED BASS 2	34	2	0		-1
157	MUTE PICKED BASS	34	5	0		-1
158	SLAP BASS 2	36	32	0		-1
159	SLAP BASS 3	36	2	0		-1
160	CHORUS SLAP BASS	36	33	0		-1
161	AMP SLAP BASS	36	3	0	✓	-1
162	WAH SLAP BASS	36	34	0	✓	-1
163	FRETLESS BASS	35	32	0		-1
164	CHORUS FRETLESS BASS	35	33	0	✓	-1
165	AMP FRETLESS BASS	35	34	0	✓	-1
166	FINGER SLAP BASS 2	36	4	0		-1
167	FINGER SLAP BASS 3	36	35	0		-1
168	SYNTH-BASS 2	38	6	0	✓	-1
169	SYNTH-BASS 3	38	1	0		-1
170	SYNTH-BASS 4	38	2	0		-1
171	SYNTH-BASS 5	39	1	0		-1
172	SYNTH-BASS 6	39	2	0		-1
173	SYNTH-BASS 7	38	32	0	✓	-1
174	SYNTH-BASS 8	39	33	0		-1
175	SYNTH-BASS 9	39	4	0		-1
176	SYNTH-BASS 10	39	5	0		-1
177	SYNTH-BASS 11	38	4	0		-1
178	SYNTH-BASS 12	38	5	0		-1
179	SYNTH-BASS 13	39	6	0		-1
180	ORGAN BASS	39	7	0		0
181	VERSATILE ELECTRIC BASS 1	33	10	0		-1
182	VERSATILE ELECTRIC BASS 2	33	24	0		-1
STRIN	GS					
183	STEREO STRINGS	48	32	0	~	0
184	MELLOW STRINGS 1	49	1	0		0
185	MELLOW STRINGS 2	48	1	0		0
186	BRIGHT STRINGS	49	2	0		0
187	STRINGS	48	3	0		0
188	SLOW STRINGS 1	48	2	0	✓	0
189	SLOW STRINGS 2	49	32	0		0
190	STRING ENSEMBLE	48	4	0		0
191	WARM STRINGS	48	5	0		0
192	PIZZICATO STRINGS	45	32	0		0

No.	Tone Name	Program Change	Bank Select MSB	Bank Select LSB	DSP Tone	Part Octave Shift
193	CHAMBER	48	33	0		0
194	OCTAVE STRINGS	48	34	0		0
195	ORCHESTRA HIT	55	4	0		0
196	SOLO VIOLIN	40	32	0		0
197	VIOLIN	40	33	0		0
198	SLOW VIOLIN	40	34	0		0
199	VIOLA	41	32	0		0
200	CELLO	42	32	0		-1
201	CONTRABASS	43	32	0		-1
202	HARP	46	32	0		0
203	VIOLIN SECTION	48	6	0		0
204	HARP & STRINGS	49	3	0		0
BRASS	3					
205	STEREO BRASS	61	1	0	✓	0
206	SOLO TRUMPET	56	1	0		0
207	SYNTH-BRASS 1	62	32	0		0
208	BRASS	61	2	0		0
209	BRASS SECTION 1	61	3	0		0
210	BRASS SECTION 2	61	4	0		0
211	BIG BAND BRASS	61	32	0		0
212	HARD BRASS	61	5	0		0
213	BRASS SFZ	61	33	0		0
214	BRASS VELO.FALL	61	34	0		0
215	BRASS VELO.SHAKE	61	35	0		0
216	BRASS VELO.GLISSANDO	61	36	0		0
217	SYNTH-BRASS 2	62	33	0		0
218	SYNTH-BRASS 3	62	1	0		0
219	SYNTH-BRASS 4	62	34	0		0
220	WARM SYNTH-BRASS	62	35	0		0
221	ANALOG SYNTH-BRASS	62	36	0		0
222	80'S SYNTH-BRASS	62	2	0		0
223	TRANCE BRASS	63	32	0		0
224	TRUMPET 1	56	32	0	~	0
225	TRUMPET 2	56	2	0		0
226	MELLOW TRUMPET	56	3	0		0
227	MUTE TRUMPET	59	1	0		0
228	TROMBONE	57	32	0		-1
229	JAZZ TROMBONE	57	33	0		-1
230	FRENCH HORN	60	32	0		0
231	FRENCH HORN SECTION	60	1	0		0
232	TUBA	58	32	0		-2
233	VERSATILE BRASS 1	61	8	0		0
234	VERSATILE BRASS 2	61	9	0		0
REED					·	
235	SOLO TENOR SAX	66	1	0		-1
236	SOLO ALTO SAX	65	32	0		0
237	BREATHY ALTO SAX	65	33	0	√	0
238	SOLO SOPRANO SAX	64	32	0		0
239	BREATHY S.SAX	64	34	0		0
240	SOLO OBOE	68	32	0		0
240		00	VL			, , , , , , , , , , , , , , , , , , ,

No.	Tone Name	Program Change	Bank Select MSB	Bank Select LSB	DSP Tone	Part Octave Shift
241	SOLO BASSOON	70	32	0		-1
242	ALTO SAX	65	1	0	✓	0
243	TENOR SAX	66	2	0	✓	-1
244	BREATHY TENOR SAX	66	3	0	✓	-1
245	SOPRANO SAX	64	33	0		0
246	BARITONE SAX	67	1	0		-1
247	HARD ALTO SAX	65	2	0		0
248	TENOR SAXYS	66	4	0		0
249	CLARINET	71	32	0		0
250	VELO.CLARINET	71	1	0		0
251	OBOE	68	1	0		0
252	ENGLISH HORN	69	32	0		0
PIPE						
253	SOLO FLUTE 1	73	32	0		0
254	SOLO FLUTE 2	73	33	0		0
255	FLUTE	73	1	0		0
256	JAZZ FLUTE	73	2	0		0
257	PICCOLO	72	32	0		1
258	RECORDER	74	32	0		0
259	PAN FLUTE 1	75	32	0		0
260	PAN FLUTE 2	75	33	0		0
261	WHISTLE	78	1	0		0
262	OCARINA	79	32	0		0
263	SHAKUHACHI	77	32	0		0
264	PIPE SECTION	72	33	0		0
SYNTH					1	
265	SUPER SAW LEAD 1	81	16	0		0
266	SUPER SAW LEAD 2	81	17	0	✓	0
267	TRANCE POLY LEAD	81	18	0		0
268	TRANCE PLUCK	81	38	0	✓	0
269	PROGRESSIVE PLUCK	81	39	0	✓	0
270	SAW PLUCK	81	40	0	✓	0
271	DIRTY PLUCK	80	38	0	✓	0
272	HOUSE CHORD SYNTH	81	44	0	✓	0
273	POPULAR PLUCK 1	81	19	0	~	0
274	POPULAR PLUCK 2	81	20	0	✓	0
275	VOCAL CHOP SYNTH 1	85	16	0		0
276	VOCAL CHOP SYNTH 2	85	17	0		0
277	X SYNTH LEAD 1	81	7	0		0
278	X SYNTH LEAD 2	80	36	0		0
279	X SYNTH LEAD 3	81	32	0	✓	0
280	X SYNTH LEAD 4	80	37	0		0
	X SYNTH LEAD 5	81	33	0		0
282	X SYNTH LEAD 6	80	6	0		0
283	VA SYNTH 1	80	3	0		0
284	VA SYNTH 2	80	4	0		0
285	VA SYNTH 3	80	5	0		0
				-		-
	VA SYNTH SEO-BASS 1	81	10			
286 287	VA SYNTH SEQ-BASS 1 VA SYNTH SEQ-BASS 2	81 81	10 11	0		0

No.	Tone Name	Program Change	Bank Select MSB	Bank Select LSB	DSP Tone	Part Octave Shift
289	VA SYNTH SEQUENCE 1	81	13	0		-1
290	VA SYNTH SEQUENCE 2	81	14	0		0
291	EDM KICK & BASS	96	8	0		0
292	EDM PER SYNTH	97	10	0		0
293	EDM LAZER 1	96	9	0		0
294	EDM LAZER 2	96	10	0		0
295	EDM THEME SYNTH	96	11	0		0
296	EDM THEME HIT	97	8	0		0
297	EDM BRASS HIT	96	12	0		1
298	EDM BASS	97	9	0		-1
299	EDM SE BEND	96	13	0		0
300	EDM SE VOX SYNTH	96	14	0		0
301	EDM SE WHITE	96	15	0		0
302	SAW LEAD 1	81	1	0		0
303	SAW LEAD 2	81	2	0	✓	0
304	SAW LEAD 3	81	3	0		0
305	MELLOW SAW LEAD	81	4	0		0
306	PULSE SAW LEAD	81	5	0		0
307	TRANCE LEAD	81	6	0		0
308	SS LEAD	81	34	0		0
309	SQUARE LEAD	80	32	0		0
310	SLOW SQUARE LEAD	80	1	0		0
311	PULSE LEAD	80	33	0		0
312	SQUARE PULSE LEAD	80	34	0		0
313	SINE LEAD	80	2	0		0
314	SYNTH SEQUENCE	80	8	0		0
315	SEQUENCE SAW	81	15	0		0
316	SEQUENCE SINE	80	7	0		0
317	8BIT ARPEGGIO	80	9	0		0
318	8BIT WAVE	80	35	0		0
319	SAW ARPEGGIO 1	81	8	0		0
320	SAW ARPEGGIO 2	81	9	0		0
321	SYNTH-VOICE LEAD	85	1	0		0
322	FIFTH LEAD	86	32	0		0
PAD/C	HOIR		-			-
323	SYNTH-STRINGS 1	51	32	0	√	0
324	DIGITAL SYNTH-STR.1	51	33	0	~	0
325	PROGRESSIVE VOICE	88	4	0	~	0
326	SUPER SAW PAD	90	6	0		0
327	OLD TAPE PAD	88	5	0	~	0
328	X SYNTH PAD 1	90	32	0	✓	0
329	X SYNTH PAD 2	90	33	0	√	0
330	X SYNTH PAD 3	90	34	0		0
331	SYNTH-STRINGS 2	50	1	0		0
332	SYNTH-STRINGS 3	50	2	0		0
333	70'S SYNTH-STR.1	50	3	0		0
334	70'S SYNTH-STR.2	50	32	0		0
335	80'S SYNTH-STR.1	50	33	0		0
336	80'S SYNTH-STR.2	50	33	0		0
337	DIGITAL SYNTH-STR.2	50	4	0	~	0

No.	Tone Name	Program Change	Bank Select MSB	Bank Select LSB	DSP Tone	Part Octave Shift
338	FAST SYNTH-STRINGS	50	5	0		0
339	SLOW SYNTH-STRINGS	50	35	0		0
340	FANTASY	88	1	0		0
341	NEW AGE	88	2	0		0
342	WARM PAD	89	1	0		0
343	FAT SAW PAD	89	2	0		0
344	SOFT PAD	89	3	0		0
345	SYNTH-PAD	90	1	0		0
346	VA SYNTH-PAD	90	2	0	✓	0
347	POLY SAW	90	3	0		0
348	BRIGHT SAW PAD 1	90	4	0		0
349	BRIGHT SAW PAD 2	90	5	0		0
350	GLASS PAD	92	32	0		0
351	BOTTLE PAD	92	33	0		0
352	ETHNIC PAD	93	32	0		0
353	SWEEP PAD	95	1	0		0
354	WOOD PAD	96	32	0		0
355	SOUND TRACK	97	1	0		0
356	VIBRAPHONE BELL	98	32	0		0
357	ATMOSPHERE PAD	99	1	0		0
358	STEEL PAD	99	32	0		0
359	BRIGHTNESS	100	1	0		0
360	BRIGHT BELL PAD	100	2	0		0
361	SPACE PAD	103	1	0		0
362	EDM PAD	88	3	0	✓	0
363	CHOIR AAHS	52	1	0		0
364	STRINGS VOICE	52	33	0		0
365	SLOW CHOIR	52	32	0		0
366	VOICE DOO	53	32	0		0
367	VOICE UUH	53	33	0		0
368	SYNTH-VOICE	54	1	0		0
369	VOICE ENSEMBLE	54	2	0		0
370	SYNTH-VOICE PAD	54	32	0		0
ETHN	С				1	
371	SITAR 1	104	32	0		0
372	SITAR 2	104	1	0		0
373	SITAR 3	104	33	0		0
374	SITAR PAD	104	34	0		0
375	TANPURA 1	104	2	0		0
376	TANPURA 2	104	35	0		0
377	HARMONIUM 1	20	32	0		0
378	HARMONIUM 2	20	1	0		0
379	SANTUR 1	15	1	0		0
380	SANTUR 2	15	32	0		0
381	SAROD 1	105	10	0		0
382	SAROD 2	105	41	0		0
383	SARANGI 1	110	8	0		0
384	SARANGI 2	110	43	0		0
385	VEENA 1	104	36	0		0
386	VEENA 2	104	37	0		0

No.	Tone Name	Program Change	Bank Select MSB	Bank Select LSB	DSP Tone	Part Octave Shift
387	SHANAI	111	1	0		0
388	BANSURI	72	9	0		0
389	PUNGI	111	8	0		0
390	TABLA	116	41	0		0
391	CAVAQUINHO	104	38	0		0
392	VIOLA CAIPIRA	104	39	0		0
393	BERIMBAU	104	40	0		0
394	PANDEIRO	116	40	0		0
395	ANGKLUNG TREM.	12	40	0		0
396	GENDER	11	40	0		0
397	САК	25	12	0		0
398	СИК	24	40	0		0
399	CELLO FINGERED	32	12	0		-1
400	SASANDO	46	40	0		0
401	SHORT SULING	77	40	0		0
402	SULING BAMBOO 1	77	41	0		1
403	SALUANG	77	43	0		0
404	SULING BAMBOO 2	77	42	0		0
405	ER HU 1	110	9	0		0
406	ER HU 2	110	40	0		0
407	ER HU 3	110	41	0		0
408	ER HU 4	110	42	0		0
409	YANG QIN 1	15	2	0		0
410	YANG QIN 2	15	3	0		0
411	YANG QIN 3	15	34	0		0
412	ZHENG 1	107	8	0		0
413	ZHENG 2	107	40	0		0
414	PI PA 1	107	8	0		0
415	PI PA 2	105	9	0		0
416	PI PA 3	105	40	0		0
417	CHINESE HARP	46	33	0		0
417	DI ZI 1	72	8	0		0
410	DI ZI 2	72	40	0		0
419	XIAO	77	8	0		0
420	SHENG 1	109	8	0		0
421	SHENG 2		40	0		-
422	SUO NA 1	109	40	0		0
			-	0	~	-
424 425	SUO NA 2 OUD 1	111	32 11	0	v	0
425	OUD 2	105	42			0
-				0		0
427	SAZ	15	4	0		0
428	KANUN 1	15	5	0		0
429	KANUN 2	15	33	0		0
430	BOUZOUKI	105	43	0		0
431	RABAB	105	44	0		0
432	KEMENCHE	110	44	0		0
433	NEY 1	72	10	0		0
434	NEY 2	72	41	0		0
435	ZURNA	111	9	0		0
436	ARABIC ORGAN	16	7	0		0

No.	Tone Name	Program Change	Bank Select MSB	Bank Select LSB	DSP Tone	Part Octave Shift
437	ARABIC STRINGS	48	7	0		0
438	BANJO	105	32	0		0
439	MUTE BANJO	105	1	0		0
440	STEEL DRUMS	114	1	0		0
441	FIDDLE	110	32	0		0
GM TO	NES					
442	GM PIANO 1	0	0	0		0
443	GM PIANO 2	1	0	0		0
444	GM ELEC.GRAND PIANO	2	0	0		0
445	GM HONKY-TONK	3	0	0		0
446	GM E.PIANO 1	4	0	0		0
447	GM E.PIANO 2	5	0	0		0
448	GM HARPSICHORD	6	0	0		0
449	GM CLAVI	7	0	0		0
450	GM CELESTA	8	0	0		0
451	GM GLOCKENSPIEL	9	0	0		0
452	GM MUSIC BOX	10	0	0		0
453	GM VIBRAPHONE	11	0	0		0
454	GM MARIMBA	12	0	0		0
455	GM XYLOPHONE	13	0	0		0
456	GM TUBULAR BELL	14	0	0		0
457	GM DULCIMER	15	0	0		0
458	GM ORGAN 1	16	0	0		0
459	GM ORGAN 2	17	0	0		0
460	GM ORGAN 3	18	0	0		0
461	GM PIPE ORGAN	19	0	0		0
462	GM REED ORGAN	20	0	0		0
463	GM ACCORDION	21	0	0		0
464	GM HARMONICA	22	0	0		0
465	GM BANDONEON	23	0	0		0
466	GM NYLON STR.GUITAR	24	0	0		0
467	GM STEEL STR.GUITAR	25	0	0		0
468	GM JAZZ GUITAR	26	0	0		0
469	GM CLEAN GUITAR	27	0	0		0
470	GM MUTE GUITAR	28	0	0		0
471	GM OVERDRIVE GT	29	0	0		0
472	GM DISTORTION GT	30	0	0		0
473	GM GT HARMONICS	31	0	0		0
474	GM ACOUSTIC BASS	32	0	0		0
475	GM FINGERED BASS	33	0	0		0
476	GM PICKED BASS	34	0	0		0
477	GM FRETLESS BASS	35	0	0		0
478	GM SLAP BASS 1	36	0	0		0
479	GM SLAP BASS 2	37	0	0		0
480	GM SYNTH-BASS 1	38	0	0		0
481	GM SYNTH-BASS 2	39	0	0		0
482	GM VIOLIN	40	0	0		0
483	GM VIOLA	41	0	0		0
484	GM CELLO	42	0	0		0
			-	~		1 -

No.	Tone Name	Program Change	Bank Select MSB	Bank Select LSB	DSP Tone	Part Octave Shift
486	GM TREMOLO STRINGS	44	0	0		0
487	GM PIZZICATO	45	0	0		0
488	GM HARP	46	0	0		0
489	GM TIMPANI	47	0	0		0
490	GM STRINGS 1	48	0	0		0
491	GM STRINGS 2	49	0	0		0
492	GM SYNTH-STRINGS 1	50	0	0		0
493	GM SYNTH-STRINGS 2	51	0	0		0
494	GM CHOIR AAHS	52	0	0		0
495	GM VOICE DOO	53	0	0		0
496	GM SYNTH-VOICE	54	0	0		0
497	GM ORCHESTRA HIT	55	0	0		0
498	GM TRUMPET	56	0	0		0
499	GM TROMBONE	57	0	0		0
500	GM TUBA	58	0	0		0
501	GM MUTE TRUMPET	59	0	0		0
502	GM FRENCH HORN	60	0	0		0
503	GM BRASS	61	0	0		0
504	GM SYNTH-BRASS 1	62	0	0		0
505	GM SYNTH-BRASS 2	63	0	0		0
506	GM SOPRANO SAX	64	0	0		0
507	GM ALTO SAX	65	0	0		0
508	GM TENOR SAX	66	0	0		0
509	GM BARITONE SAX	67	0	0		0
510	GM OBOE	68	0	0		0
511	GM ENGLISH HORN	69	0	0		0
512	GM BASSOON	70	0	0		0
513	GM CLARINET	71	0	0		0
514	GM PICCOLO	72	0	0		0
515	GM FLUTE	73	0	0		0
516	GM RECORDER	74	0	0		0
517	GM PAN FLUTE	75	0	0		0
518	GM BOTTLE BLOW	76	0	0		0
519	GM SHAKUHACHI	77	0	0		0
520	GM WHISTLE	78	0	0		0
521	GM OCARINA	79	0	0		0
522	GM SQUARE LEAD	80	0	0		0
523	GM SAW LEAD	81	0	0		0
524	GM CALLIOPE	82	0	0		0
525	GM CHIFF LEAD	83	0	0		0
526	GM CHARANG	84	0	0		0
527	GM VOICE LEAD	85	0	0		0
528	GM FIFTH LEAD	86	0	0		0
529	GM BASS+LEAD	87	0	0		0
530	GM FANTASY	88	0	0		0
531	GM WARM PAD	89	0	0		0
532	GM POLYSYNTH	90	0	0		0
533	GM SPACE CHOIR	91	0	0		0
534	GM BOWED GLASS	92	0	0		0
535	GM METAL PAD	93	0	0		0

No.	Tone Name	Program Change	Bank Select MSB	Bank Select LSB	DSP Tone	Part Octave Shift
536	GM HALO PAD	94	0	0		0
537	GM SWEEP PAD	95	0	0		0
538	GM RAIN DROP	96	0	0		0
539	GM SOUND TRACK	97	0	0		0
540	GM CRYSTAL	98	0	0		0
541	GM ATMOSPHERE	99	0	0		0
542	GM BRIGHTNESS	100	0	0		0
543	GM GOBLINS	101	0	0		0
544	GM ECHOES	102	0	0		0
545	GM SF	103	0	0		0
546	GM SITAR	104	0	0		0
547	GM BANJO	105	0	0		0
548	GM SHAMISEN	106	0	0		0
549	GM КОТО	107	0	0		0
550	GM THUMB PIANO	108	0	0		0
551	GM BAGPIPE	109	0	0		0
552	GM FIDDLE	110	0	0		0
553	GM SHANAI	111	0	0		0
554	GM TINKLE BELL	112	0	0		0
555	GM AGOGO	113	0	0		0
556	GM STEEL DRUMS	114	0	0		0
557	GM WOOD BLOCK	115	0	0		0
558	GM TAIKO	116	0	0		0
559	GM MELODIC TOM	117	0	0		0
560	GM SYNTH-DRUM	118	0	0		0
561	GM REVERSE CYMBAL	119	0	0		0
562	GM GT FRET NOISE	120	0	0		0
563	GM BREATH NOISE	121	0	0		0
564	GM SEASHORE	122	0	0		0
565	GM BIRD	123	0	0		0
566	GM TELEPHONE	124	0	0		0
567	GM HELICOPTER	125	0	0		0
568	GM APPLAUSE	126	0	0		0
569	GM GUNSHOT	127	0	0		0
DRUM			-			-
570	STANDARD SET 1	0	120	0		0
571	STANDARD SET 2	1	120	0		0
572	STANDARD SET 3	2	120	0		0
573	STANDARD SET 4	3	120	0		0
574	STANDARD SET 5	4	120	0		0
575	DANCE SET 1	26	120	0		0
576	DANCE SET 2	27	120	0		0
577	DANCE SET 3	28	120	0		0
578	DANCE SET 4	29	120	0		0
579	DANCE SET 5	34	120	0		0
580	DANCE SET 6	35	120	0		0
581	TRANCE SET	31	120	0		0
582	HIP-HOP SET	9	120	0		0
583	ROOM SET	8	120	0		0
000	POWER SET	16	120	0		0

No.	Tone Name	Program Change	Bank Select MSB	Bank Select LSB	DSP Tone	Part Octave Shift
585	ROCK SET	17	120	0		0
586	ELECTRONIC SET	24	120	0		0
587	DRUM MACHINE SET 1	25	120	0		0
588	DRUM MACHINE SET 2	30	120	0		0
589	DRUM MACHINE SET 3	33	120	0		0
590	JAZZ SET	32	120	0		0
591	BRUSH SET	40	120	0		0
592	ORCHESTRA SET	48	120	0		0
593	LATIN SET 1	49	120	0		0
594	LATIN SET 2	50	120	0		0
595	INDONESIAN SET	53	120	0		0
596	INDIAN SET	54	120	0		0
597	ARABIC SET	52	120	0		0
598	CHINESE SET	51	120	0		0
599	SFX SET 1	60	120	0		0
600	SFX SET 2	61	120	0		0

NOTE

• Tone names that start with "VERSATILE" (such as 135 VERSATILE NYLON GUITAR) are the names of "versatile tones". See "Versatile Tone Map" (page EN-208).

 DRUM SET assigns different percussive instruments to keyboard keys. Keyboard keys that do not have a tone assigned do not produce any sound. See the See "Drum Assignment List" (page EN-203).

Rhythm List

No	Dhuthm Nome
	Rhythm Name
POPS	
1	ELECTRO DANCE POP
2	ELECTRO FUNK POP
3	R&B POP SHUFFLE
4	ELECTRO POP
5	JAZZ FUNK
6	80's POP STAR
7	6/8 POP
8	POP SHUFFLE
9	OLDIES POP
10	SLOW SOUL
11	FAST SOUL
12	60's SHUFFLE
8 BEAT	
13	ACOUSTIC GUITAR 8 BEAT
14	STRAIGHT 8 BEAT
15	GUITAR 8 BEAT
16	OLDIES 8 BEAT
16 BEAT	
17	FUNK 16 BEAT
18	16 BEAT SHUFFLE
19	16 BEAT
20	FUNK SOUL
ROCK	
21	ROCK ANTHEM
22	HARD ROCK
23	SOFT SHUFFLE ROCK
24	BOOGIE BLUES
24 25	BOOGIE BLUES SHUFFLE ROCK
24 25 26	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ
24 25 26 27	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES
24 25 26 27 28	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES
24 25 26 27 28 29	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B
24 25 26 27 28 29 30	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK
24 25 26 27 28 29 30 31	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK 50's ROCK
24 25 26 27 28 29 30 31 32	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK
24 25 26 27 28 29 30 31 31 32 DANCE	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK 50's ROCK NEW ORLNS R&R
24 25 26 27 28 29 30 31 31 32 DANCE 33	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK 50's ROCK NEW ORLNS R&R DISCO SHUFFLE
24 25 26 27 28 29 30 31 31 32 DANCE 33 34	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK 50'S ROCK NEW ORLNS R&R DISCO SHUFFLE R&B FUNK
24 25 26 27 28 29 30 31 31 32 DANCE 33 34 35	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK 50'S ROCK NEW ORLNS R&R DISCO SHUFFLE R&B FUNK CHART DANCE
24 25 26 27 28 29 30 31 31 32 DANCE 33 34 35 36	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK 50'S ROCK NEW ORLNS R&R DISCO SHUFFLE R&B FUNK CHART DANCE 70'S DISCO POP
24 25 26 27 28 29 30 31 31 32 DANCE 33 33 34 35 36 37	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK 50's ROCK NEW ORLNS R&R DISCO SHUFFLE R&B FUNK CHART DANCE 70's DISCO POP DANCE POP
24 25 26 27 28 29 30 31 32 DANCE 33 33 34 35 36 37 38	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK 50'S ROCK NEW ORLNS R&R DISCO SHUFFLE R&B FUNK CHART DANCE 70'S DISCO POP DANCE POP HIP-HOP
24 25 26 27 28 29 30 31 31 32 DANCE 33 34 35 36 37 38 39	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK 50's ROCK NEW ORLNS R&R DISCO SHUFFLE R&B FUNK CHART DANCE 70's DISCO POP DANCE POP HIP-HOP DISCO POP
24 25 26 27 28 29 30 31 31 32 DANCE 33 34 35 36 37 38 39 40	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK 50's ROCK NEW ORLNS R&R DISCO SHUFFLE R&B FUNK CHART DANCE 70's DISCO POP DANCE POP HIP-HOP DISCO POP TRANCE
24 25 26 27 28 29 30 31 31 32 DANCE 33 34 35 36 37 38 39 40 41	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK 50's ROCK NEW ORLNS R&R DISCO SHUFFLE R&B FUNK CHART DANCE 70's DISCO POP DANCE POP HIP-HOP DISCO POP
24 25 26 27 28 29 30 31 31 32 DANCE 33 33 34 35 36 35 36 37 38 39 40 41 JAZZ	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK 50's ROCK NEW ORLNS R&R DISCO SHUFFLE R&B FUNK CHART DANCE 70's DISCO POP DANCE POP HIP-HOP DISCO POP TRANCE MODERN R&B
24 25 26 27 28 29 30 31 31 32 DANCE 33 34 35 36 37 38 39 40 41	BOOGIE BLUES SHUFFLE ROCK ROCK WALTZ SHUFFLE BLUES 6/8 BLUES R&B SLOW ROCK 50's ROCK NEW ORLNS R&R DISCO SHUFFLE R&B FUNK CHART DANCE 70's DISCO POP DANCE POP HIP-HOP DISCO POP TRANCE

No	Rhythm Name
44	ORCHESTRA SWING 1
45	MODERN BIG BAND
46	FAST BIG BAND
47	ORCHESTRA SWING 2
48	SWING
49	SLOW SWING
50	5/4 JAZZ
51	FOX TROT
52	QUICKSTEP
TRAD	
53	WALTZ 1
54	ENGLISH WALTZ
55	VIENNESE WALTZ
56	FRENCH WALTZ
57	TANGO
58	MARCH
59	GERMAN MARCH
LATIN I	
60	BOSSA NOVA
61	ORCHESTRA BOSSA
62	BEGUINE
63	SAMBA 1
64	SAMBA 2
65	МАМВО
66	RHUMBA
67	CHA-CHA-CHA
68	MERENGUE
69	BOLERO
70	SALSA 1
71	SALSA 2
72	REGGAE
73	REGGAE DANCE
74	SKA
75	FOLKLORE
LATIN II	
76	REGGAETON
77	CUMBIA
78	OLD SAMBA
79	CALIPSO
80	FORRO UNIVERSITARIO
81	XOTE SERTANEJO
82	BAIAO
83	PAGODE
84	BANDA
85	NORTENO
86	PASILLO
87	TECHNO CUMBIA
88	VALLENATO
89	ARGENTINE CUMBIA

No	Rhythm Name
90	PUNTA
91	BACHATA
WORLD I	
EUROPEAN	
92	SCHLAGER
93	POLKA
94	PASODOBLE
95	CAUCASIAN
96	RUSSIAN CHANSON 1
97	RUSSIAN CHANSON 2
98	POLISH WALTZ
AMERICAN	
99	DIXIE
100	TEX-MEX
101	FAST GOSPEL
102	SLOW GOSPEL
103	HAWAIIAN
ARABIC/ORIE	NTAL
104	MALFOUF
105	BALADI
106	KHALIJI
107	ADANI
108	MUS
109	SIRTAKI
SOUTH AFRIC	CAN
110	KWAITO
WORLD II	L
INDIAN	
111	BHANGRA
112	DADRA
113	GARBA
114	KEHARWA
115	DANDIYA
116	TEEN TAAL
117	BHAJAN
118	JHAP TAAL
119	RUPAK
120	INDIAN POP 1
121	INDIAN POP 2
122	INDIAN POP 3
123	INDIAN POP 4
124	EKTAL
125	CHAUTAL
126	DHAMAR
127	TAMIL
128	RAJASTHANI
129	GOAN
130	QAWWALI
131	KERALA
132	KEHARWA TANPURA & TABLA
133	DADRA TANPURA & TABLA
	ı

No	Rhythm Name
134	TEEN TAAL TANPURA & TABLA
135	RUPAK TANPURA & TABLA
136	DEEPCHANDI TANPURA & TABLA
CHINESE	
137	GUANGDONG
138	JIANGNAN
139	BEIJING
140	DONGBEIYANGGE
141	JINGJU
142	HUANGMEIXI
143	QINQIANG
144	YUJU
145	YAOZU
146	DAIZU
147	MIAOZU
148	MENGGU
149	XINJIANG
150	ZANGZU
151	CHINESE POP
INDONESIAN	
152	KRONCONG
153	DANGDUT
JAPANESE	
154	ENKA 1
155	ENKA 2
156	SHOUKA 1
157	SHOUKA 2
COUNTRY	
158	COUNTRY POP
159	COUNTRY 8 BEAT
160	COUNTRY BALLAD
161	COUNTRY SHUFFLE
162	COUNTRY WALTZ
163	BLUEGRASS
ENSEMBLE/O	
164	CHRISTMAS SONG
165	CHRISTMAS WALTZ
166	SCREEN SWING
167	SERENADE
168	STRING QUARTET
BALLAD	
169	16 BEAT BALLAD
170	AOR BALLAD
171	PIANO ROCK BALLAD
172	SLOW BALLAD 1
173	SLOW BALLAD 2
174	R&B BALLAD
175	BRUSH BALLAD
176	POP BALLAD
177	6/8 BALLAD
178	UNPLUGGED BALLAD

-

No	Rhythm Name
179	ROCK BALLAD
180	6/8 ROCK BALLAD
PIANO RHYTH	IMS
181	PIANO 8 BEAT
182	PIANO BALLAD 1
183	PIANO BALLAD 2
184	EP BALLAD 1
185	EP BALLAD 2
186	BLUES BALLAD
187	JAZZ COMBO 1
188	JAZZ COMBO 2
189	RAGTIME
190	BOOGIE-WOOGIE
191	PIANO ROCK & ROLL
192	ARPEGGIO 1
193	ARPEGGIO 2
194	ARPEGGIO 3
195	PIANO MARCH 1
196	PIANO MARCH 2
197	STRIDE PIANO
198	WALTZ 2
199	WALTZ 3
200	WALTZ 4
USER RHYTH	MS
201 - 210	USER RHYTHM 1 - 10

Drum Assignment List

Key	Note No.	570:STANDARD SET 1	571:STANDARD SET 2	DRUMS 572:STANDARD SET 3	SET NAME 573:STANDARD SET 4	574:STANDARD SET 5	575:DANCE SET 1
C-1	0	Tabla Ge	571:STANDARD SET 2	5/2:5 IANUARD SET 3	5/3:STANUARD SET 4	574:STANDARD SET 5	
C=1 D-1	1	Tabla Ka Tabla Te					Dance1 Kick 1 Dance1 Kick 2
E-1	3	Tabla Na Tabla Tun					Dance1 Kick 3 Dance1 Kick 4
	4	Dholak Ge					Dance1 Kick 5 Dance1 Snare 1
3-1	7	Dholak Ke Dholak Ta 1					Dance1 Snare 2 Dance1 Snare 3
A)-1	8	Dholak Ta 2 Dholak Na					Dance1 Snare 4 Dance1 Snare 5
B-1 Bb-1		Dholak Ta 3					Dance1 Snare 6
00	11 12	Dholak Ring Mridangam Tha					Dance1 Snare 7 Dance1 Snare 8
C≣0 D0	13 14	Mridangam Tha Mridangam Dhom Mridangam Dhi					Dance1 Snare 9 Dance1 Tambourine
E0 E0	14 15 16	Mridangam Dhi Mridangam Dhin					His Hes Coors 4
50	17	Mridangam Num					Hip-Hop Share 3 Techno Snare
F≢0	18 19						Hip-Hop Rim Shot
A0 A0	20 21						DM2 Kick 1 Rev. Reverse Cymbal Gate Hip-Hop Snare 4 Gate
Bh0	21 22 23						Hip-Hop Snare 4 Gate
B0 C1				Standard3 Snare 1 mp Standard3 Snare 1 mf Standard3 Snare 2 mp			Hip-Hop Snare 3 Gate Techno Snare Gate Hip-Hop Side Stick Gate
D1	26			Standard3 Snare 2 mp Standard3 Snare 2 mf			Hip-Hop Side Stick Gate Hand Clap 2 Gate
E1 E)1		High Q	*	€	(*	6
	28 29	Slap Scratch Push Scratch Pull	÷	÷	÷	÷	Hip-Hop Scratch 1
F21	30 31		← Standard2 Sticks	← Standard2 Sticks	← Standard2 Sticks	← Standard2 Sticks	Hip-Hop Scratch 2 Standard2 Sticks
A)1	32 33	Souare Click	*	*	÷	* *	€ €
B1 B21	33 34 35	Metronome Click Metronome Bell Standard1 Kick 2	÷	é	è	← ← Standard5 Kick 2	€ EDM2 Kick 2
00			Standard2 Kick 2 Standard2 Kick 1	Standard3 Kick 2 Standard3 Kick 1	Standard4 Kick 2 Standard4 Kick 1 Standard2 Side Stick	Standard5 Kick 2 Standard5 Kick 1 Standard5 Side Stick	DM2 Kick 2 DM2 Kick 1 Standard2 Side Stick
C#2	20	Standard1 Side Stick Standard1 Snare 1 Hand Clap 1 Standard1 Snare 2	Standard2 Side Stick Standard2 Snare 1	Standard2 Side Stick Standard3 Snare 1	Standard2 Side Stick Standard4 Snare 1	Standard5 Side Stick Standard5 Spare 1	Standard2 Side Stick DM2 Snare 1
E2 E2	39	Hand Clap 1	Standard2 Share 1 Standard2 Share 2 Standard2 Law Tem 2	Standard3 Share 1 Standard3 Share 2 Standard3 Low Tom 2	Chandraid Scr. 0	Standard5 Share 1 Standard5 Hand Clap	DM2 Snare 1 ← DM2 Snare 2
50	40 41	Standard1 Snare 2 Standard1 Low Tom 2	Standard2 Snare 2 Standard2 Low Tom 2	Standard3 Snare 2 Standard3 Low Tom 2	← Standard4 Snare 2 Standard3 Low Tom 2	Standard5 Snare 2 Standard5 Low Tom 2	DM2 Snare 2 DM2 Low Tom 2
F#2	43	Standard1 Low Tom 2 Standard1 Closed Hi-Hat Standard1 Low Tom 1	Standard2 Low Tom 2 Standard2 Closed Hi-Hat Standard2 Low Tom 1	Standard3 Low Tom 2 Standard3 Closed Hi-Hat Standard3 Low Tom 1	Standard3 Low Tom 2 Standard4 Closed Hi-Hat Standard3 Low Tom 1	Standard5 Closed Hi-Hat Standard5 Low Tom 1	DM2 Low Tom 2 DM2 Low Tom 2 DM2 Closed Hi-Hat 1 DM2 Low Tom 1
A 2	45	Standard1 Pedal Hi-Hat Standard1 Mid Tam 2	Standard2 Pedal Hi-Hat Standard2 Mid Tem 2	Standard3 Pedal Hi-Hat	Standard4 Pedal Hi-Hat Standard2 Mid Tam 2	Standard5 Pedal Hi-Hat	DM2 Closed Hi-Hat 2 DM2 Mid Tom 2
82 B2	45 46	Standard1 Mid Iom 2 Standard1 Open Hi-Hat Standard1 Mid Tom 1	Standard2 Mid Tom 2 Standard2 Open Hi-Hat Standard2 Mid Tom 1	Standard3 Mid Tom 2 Standard3 Open Hi-Hat Standard3 Mid Tom 1	Standard3 Mid Iom 2 Standard4 Open Hi-Hat Standard3 Mid Tom 1	Standard5 Mid Tom 2 Standard5 Open Hi-Hat Standard5 Mid Tom 1	DM2 Mid Tom 2 DM2 Open Hi-Hat DM2 Mid Tom 1
	47 48		Standard2 High Tom 2	Standard3 High Tom 2		Standard5 High Tom 2	DM2 Mid Tom 1 DM2 High Tom 2
D3	50	Standard1 Crash Cymbal 1 Standard1 High Tom 1 Standard1 Ride Cymbal 1	Standard? Crock Cumbel 1	Standard2 Creek Cumbel 1	Standard3 Crash Cymbal 1 Standard3 High Tom 1 Standard3 Ride Cymbal 1	Standard2 Creek Cumbel 1	DM2 High Tom 2 Standard3 Crash Cymbal 1 DM2 High Tom 1
E3 E3	51	Standard1 Ride Cymbal 1	Standard2 Crash Cymbal 1 Standard2 High Tom 1 Standard2 Ride Cymbal 1	Standard3 High Tom 1 Standard3 Ride Cymbal 1 Standard3 Ride Cymbal 1	Standard3 Ride Cymbal 1	Standard3 Crash Cymbal 1 Standard5 High Tom 1 Standard3 Ride Cymbal 1	DM2 High Tom 1 Standard3 Ride Cymbal 1
50	52 53	Standard I Chinese Cymbai	Standard2 Chinese Cymbal Standard2 Ride Bell	Standard3 Chinese Cymbal Standard3 Ride Bell	Standard3 Chinese Cymbal Standard3 Ride Bell	Standard3 Chinese Cymbal Standard3 Ride Bell	Standard3 Chinese Cymbal Standard3 Ride Bell
F3 F#3 G3	54	Standard I Ride Bell Tambourine Standard1 Splash Cymbal	← Standard2 Splash Cymbal	← Standard3 Splash Cymbal	← Standard3 Splash Cymbal	← Standard3 Splash Cymbal	← Standard3 Splash Cymbal
A3	56	Cowbell Standard1 Crash Cymbal 2	← Standard2 Crash Cymbal 2	← Standard3 Crash Cymbal 2	← Standard3 Crash Cymbal 2		← Standard3 Crash Cymbal 2
A3 B3	58	Vibraslap Standard1 Crash Cymbal 2 Standard1 Ride Cymbal 2		£ .	6	÷	
	59	Standard1 Ride Cymbal 2 High Bongo	Standard2 Ride Cymbal 2	Standard3 Ride Cymbal 2	Standard3 Ride Cymbal 2	Standard3 Ride Cymbal 2	DM1 Kick 2 DM1 Kick 1 DM1 Rim Shot
C4 C#4	61	High Bongo Low Bongo Mula High Canas	÷	÷	4	÷	
E4	62 63 64	Mute High Conga Open High Conga Open Low Conga High Timbale	÷	* *	÷	*	DM1 Share 1 DM1 Hand Clap DM1 Share 2
-	65	Open Low Conga High Timbale	÷	÷	*	÷ ÷	DM1 Low Tom 2
64	67	Low Timbale High Agogo 1	÷	÷	÷	+	DM1 Closed Hi-Hat 1
A •4	68	Low Agogo 1 Cabasa 1	*	÷	*	4	DM1 Closed Hi-Hat 1 DM1 Low Tom 1 DM1 Closed Hi-Hat 2 DM1 Mid Tom 2
A4 B>4	69 70 71	Maracas 1	÷	÷	÷	÷	DM1 Mid Tom 2 DM1 Open Hi-Hat
B4		High Whistle 1	High Whistle 2	High Whistle 2	High Whistle 2	High Whistle 2 Low Whistle 2	DM1 Open Hi-Hat DM1 Mid Tom 1 DM1 High Tom 2 DM1 Crash Cymbal
C5 C#5	72 73 74	Low Whistle 1 Short Guiro	Low Whistle 2	Low Whistle 2	Low Whistle 2	Low Whistle 2	DM1 Crash Cymbal
D5 E 5	75	Long Guiro Claves 1	÷	÷	÷	+	DM1 Crash Cymbal DM1 Righ Tom 1 DM1 Ride Cymbal Standard3 Ride Bell DM2 Torsh enell
E5	76	High Wood Block Low Wood Block Mute Cuica	(÷	÷	÷	Standard3 Chinese Cymbal Standard3 Ride Bell
0.5	78 79	Mute Cuica Open Cuica	÷	÷	*	÷	DM1 Tambourine Standard3 Splash Cymbal
A 5	80 81	Mute Triangle 1	* *	÷	÷	+	DM1 Cowbell Standard3 Crash Cymbal 2
A5 B 5		Mute Triangle 1 Open Triangle 1 Shaker	÷	*	÷	*	Standard3 Crash Cymbal 2 Vibraslap
B5	83	Jingle Bell 1	€	÷	* * *	÷	Vibraslap DM1 Kick 3 Hin-Hon Kick 3
C6 C#6	84 85	Castanets Mute Surdo	÷	÷	÷	+	Hip-Hop Kick 3 Standard4 Kick 1
D6 E.6			÷	÷	÷	* *	Standard4 Snare 1 Hand Clan 3
E6	88	Applause 1 Applause 2	÷	÷	÷	* *	Standard4 Snare 2 Elec.Low Tom 2
F#6	90						Hip-Hop Closed Hi-Hat
A 6							Hip-Hop Pedal Hi-Hat Elec.Mid Tom 2
A6 Bb6	93 94						Elec.Mid Tom 2 Hip-Hop Open Hi-Hat Elec.Mid Tom 1
B6	95 96	Jingle Bell 2					Elec.Mid Tom 1 Elec.High Tom 2
C7 C#7	96 97 98	Jingle Bell 2 Open Surdo 2 Cabasa 2 Maracas 2					Elec.High Tom 2 Techno Cymbal
D7	98 99 100	Gabasa 2 Maracas 2					Elec.High Tom 1 Techno Ride
E7	100	Mute Triangle 2					
F7 F#7		Open Triangle 2 High Agogo 2					Standard3 Low Tom 2 Room Closed Hi-Hat Standard3 Low Tom 1
G7	103 104	High Agogo 2 Low Agogo 2					
A7 B)7	105 106						Standard3 Mid Tom 2 Room Open Hi-Hat
37	107						Room Open Hi-Hat Standard3 Mid Tom 1 Standard3 High Tom 2
C#8	108 109 110	Tablah 1					Standard2 Creek Cumbel 1
D8 E)8	110	Tablah 2 Tablah 3					Standard3 High Tom 1 Standard3 Ride Cymbal 1
E8	112	Daf 1					Tombouring 2
F8 F≇8	113 114 115	Riq 1 Riq 2					Tambourine 2 Tambourine 3 Cabasa 2
G8 A98	115	Ria 3					Cabasa 2 Maracas 2
A8 Bb8	116 117 118	Davul 1 Davul 2					Clause 2
B8	119	Zill 1					Mute Triangle 2 Open Triangle 2
C9 C#9	120	Zill 2 Ban Gu					Shaker 2 Hand Clan 1
D9	122 123	Hu Yin Luo Xiao Luo Xiao Bo					Hand Clap 2
E9	123 124 125	Xiao Bo					
-9 F\$9	125 126 127	Low Tang Gu Mid Tang Gu High Tang Gu					
39			1		1	1	1

• "←" indicates a key is assigned the same tones as it is for 570:STANDARD SET 1.

EN-203

Kev	Note No				SET NAME		
,	Note NO.	576:DANCE SET 2	577:DANCE SET 3	578:DANCE SET 4 Dance1 Kick 1	579:DANCE SET 5	580:DANCE SET 6	581:TRANCE SET
C-1 D-1	1			Dance1 Kick 2 Dance1 Kick 3			
	2			Dance1 Kick 3 Dance1 Kick 4			
E-1	4			Dance1 Kick 5 Dance1 Snare 1			
G-1	6			Dance1 Snare 2 Dance1 Snare 3			
A 1	8			Dance1 Snare 4			
A-1 Bb-1	9 10			Dance1 Snare 5 Dance1 Snare 6 Dance1 Snare 7			
B-1	11			Dance1 Snare 7 Dance1 Snare 8			
C20 C20	13			Dance1 Snare 9 Dance1 Tambourine			
E0 E50				Hip-Hop Snare 4			
50	16			Hip-Hop Snare 3			
60	18			Hip-Hop Rim Shot Hip-Hop Snare 3 Rev. DM2 Kick 1 Rev. Reverse Cymbal Gate		Dances Rey Spare 1	
A0 A0	20			DM2 Kick 1 Rev.		Dance6 Rev.Snare 1 Dance6 Open Hi-Hat 1 Dance6 Crash 1	
A0 B0 B≽0	21 22 23			Dance4 Snare Rev. Dance4 Open Hi-Hat Rev.		Dances SE Noise	
04	24			Dance4 Open Hi-Hat Rev. Techno Snare Gate	Dance5 Kick 2	Dance6 Noise Down Dance6 Gate Snare	
D1 C#1				Techno Snare Gate Hip-Hop Side Stick Gate Hand Clap 2 Gate		Dance6 SE Exp. Dance6 Open Hi-Hat 2	
E1 E31	26 27	÷	+	÷		buildes open miller	+
54	28 29	÷	÷ .	Dance4 Scratch Push		Dance6 Gate Snare	÷
01	30 31	← Standard2 Sticks	← Standard2 Sticks	Dance4 Scratch Pull Standard2 Sticks			Standard2 Sticks
A1 Ab1	32 33	(€ €	+ +			€ €
B1 B1	33 34 35	÷	÷	i i	Dance5 Kick 1 Dance5 Kick 2		
00	36	Hip-Hop Kick 3 Dance1 Kick 5	Dance1 Kick 2 Dance1 Kick 4 Hip-Hop Side Stick Gate	Dance4 Kick 2 Dance4 Kick 1	Dance5 Kick 2 Dance5 Kick 3	Dance6 Kick 1 Dance6 Kick 2	Trance Kick 2 Trance Kick 1
D2	36 37 38	Hand Clap 3 Dancel Snare 7		Dance4 Kick 1 Dance4 Hand Clap 1 Dance4 Space 1	Dance5 Snare 1	Dance6 Kick 2 Dance6 Snare 1 Dance6 Snare 2	Trance Kick 1 Trance Side Stick
E2 E22		Hand Clap 2 Techno Snare	DM1 Hand Clap	Dance4 Snare 1 Dance4 Hand Clap 2	Dance5 Snare 2 Dance5 Clap	Dance6 Snare 2 Dance6 Rev.Snare 1	Trance Snare 1 Trance Hand Clap
	40	DM2 Low Tom 2	DM1 Hand Clap Dance1 Snare 1 Gate Standard5 Low Tom 2	Dance4 Snare 2 Dance4 Low Tom 2	Dance5 Snare 3 DM1 Low Tom 2		Trance Snare 2 Standard3 Low Tom 2
02	42 43 44	Trance Closed Hi-Hat DM2 Low Tom 1		Dance4 Closed Hi-Hat 1 Dance4 Low Tom 1	Dance5 Closed Hi-Hat DM1 Low Tom 1	Dance6 Closed Hi-Hat 1	Trance Closed Hi-Hat Standard3 Low Tom 1
A2 A22	44	DM2 Low Tom 1 Trance Open Hi-Hat 1 DM2 Mid Tom 2	Standard5 Low Torn 1 Standard5 Pedal Hi-Hat Standard5 Mid Torn 2	Dance4 Low Tom 1 Dance4 Closed Hi-Hat 2 Dance4 Mid Tom 2	Dance5 Open Hi-Hat 1 DM1 Mid Tom 2		Trance Open Hi-Hat 1
B2 B22	46	DM2 Mid Tom 2 Trance Open Hi-Hat 2 DM2 Mid Tom 1 DM2 High Tom 2	Standard5 Open Hi-Hat	Dance4 Open Hi-Hat 1	DM1 Mid Iom 2 Dance5 Open Hi-Hat 2 DM1 Mid Tom 1	Dance6 Open Hi-Hat 1	Trance Open Hi-Hat 2 Standard3 Mid Tom 1
	47 48	DM2 Mid Tom 1 DM2 High Tom 2	Standard5 Open Hi-Hat Standard5 Mid Tom 1 Standard5 High Tom 2	Dance4 Open Hi-Hat 1 Dance4 Mid Tom 1 Dance4 High Tom 2 Standard3 Crash Cymbal 1	DM1 Mid Tom 1 DM1 High Tom 2		Standard3 Mid Tom 1 Standard3 High Tom 2 Standard3 Crash Cymbal 1
D3	49	DM2 High Tom 1 Standard3 Ride Cymbal 1 Standard3 Ride Bell f		Standard3 Crash Cymbal 1 Dance4 High Tom 1	DM1 High Tom 2 DM1 Crash Cymbal DM1 High Tom 1	Dance6 Crash 2	Standard3 Crash Cymbal 1 Standard3 High Tom 1
E3 E93	50 51 52	Standard3 Ride Cymbal 1	Standard3 Ride Cymbal 1	Standard3 Ride Cymbal 1	DM1 High Tom 1 DM1 Ride Cymbal Standard3 Chinese Cymbal		Standard3 High Tom 1 Standard3 Ride Cymbal 1
	53	Standard3 Ride Bell	Standard5 High Tom 1 Standard3 Ride Cymbal 1 Standard3 Ride Cymbal 1 Standard3 Ride Bell	Dance4 High Tom 1 Standard3 Ride Cymbal 1 Standard3 Chinese Cymbal Standard3 Ride Bell	DM1 Ride Cymbal Standard3 Chinese Cymbal Standard3 Ride Bell DM1 Tambourine		Standard3 Chinese Cymbal Standard3 Ride Bell
62		← Standard3 Splash Cymbal	← Standard3 Splash Cymbal	Etopdard2 Salash Cumhal	DM1 Tambourine Standard3 Splash Cymbal	Dance6 Filter Hi-Hat L	Trance Tambourine Standard3 Splash Cymbal
A3 A13	55 56	← Standard3 Crash Cymbal 2	€ Standard3 Crash Cymbal 2		Standard3 Splash Cymbal DM1 Cowbell Standard3 Crash Cymbal 2	Dance6 Filter Hi-Hat R	Standard3 Spiash Cymbal 2
A3 B3			6				
	59 60	Standard3 Ride Cymbal 2	Standard3 Ride Cymbal 2	Dance4 Kick 4 Dance4 Kick 3 Dance4 Hand Clap 3	Standard3 Ride Cymbal 2 Dance5 SFX Sound 1 Dance5 SFX Sound 2	Wobble 1	Standard3 Ride Cymbal 2
C4 C#4	61 62	÷	÷	Dance4 Hand Clap 3		Wobble 2	(
E 4	62 63 64	÷	* *	Dance4 Hand Clap 4 Dance4 Hand Clap 5	Dance5 SFX Sound 3 Dance5 SFX Sound 4 Dance5 SFX Sound 5		÷
E4	64	* *	÷	Dance4 Snare 3 DM1 Low Tom 2	Dance5 SFX Sound 6	Wobble 3 Wobble 4	÷
F4 F24 G4	65 66 67	÷	÷	Dance4 Closed Hi-Hat 3 DM1 Low Tom 1 Dance4 Closed Hi-Hat 4 DM1 Mid Tom 2	Dance5 SFX Sound 7 Dance5 SFX Sound 8	Dance6 Closed Hi-Hat 2	4
A≱4	68 69	← Cabasa 2	← Cabasa 2	Dance4 Closed Hi-Hat 4	Dance5 SFX Sound 9 Dance5 SFX Sound 10	Dance6 Closed Hi-Hat 3	÷
A4 B>4	69 70 71	Gabasa 2 Maracas 2 High Whistle 2	Cabasa 2 Maracas 2 High Whistle 2	DM1 Mid Tom 2 Dance4 Open Hi-Hat 2 DM1 Mid Tom 1	Dance5 SEX Sound 11	Dance6 Open Hi-Hat 3	Cabasa 2 Maracas 2
B4		High Whistle 2 Low Whistle 2	High Whistle 2 Low Whistle 2	DM1 Mid Tom 1 DM1 High Tom 2	Dance5 SFX Sound 12 Dance5 SFX Sound 13	Dance6 SE Snare	Maracas 2 High Whistle 2 Low Whistle 2
C5 C#5		€	€	DM1 High Tom 2 DM1 Crash Cymbal	Dance5 SFX Sound 13 Dance5 SFX Sound 14 Dance5 SFX Sound 15	Dance6 SE Noise Dance6 SE Rey Spare 1	€ €
D5 E 5	74 75	÷	÷	DM1 High Tom 1 DM1 Ride Cymbal Standard3 Chinese Cymbal Standard3 Ride Bell	Dance5 SEX Sound 16	Dance6 SE Rev.Snare 1 Dance6 Noise Down	÷
E5	76	÷	÷	Standard3 Chinese Cymbal Standard3 Ride Rell	Dance5 SFX Sound 17 Dance5 SFX Sound 18	Dance6 Gate Snare Dance6 Rev.Snare 2	4 4
F5 F\$5	78 79	4	÷	DM1 Tambourine	Dance5 SFX Sound 19 Dance5 SFX Sound 20	Dance6 SE Exp.	÷
G5 A\$5	79 80 81	Mute Triangle 2 Open Triangle 2	← ← Mute Triangle 2 Open Triangle 2	Standard3 Splash Cymbal DM1 Cowbell Standard3 Crash Cymbal 2	Dance5 SFX Sound 20 Dance5 SFX Sound 21 Dance5 SFX Sound 22		Mute Triangle 2 Open Triangle 2
A5 B>5		Open Triangle 2 Shaker 2	Open Triangle 2 Shaker 2	Standard3 Crash Cymbal 2 Vibraslap	Dance5 SFX Sound 22 Dance5 SFX Sound 23	Dance6 SE Rev.Snare 2	Open Triangle 2 Shaker 2
B5	83	÷	4 4	Vibraslap DM1 Kick 3 Demon Kick 5	Dance5 SFX Sound 23 Dance5 SFX Sound 24 Dance5 SFX Sound 24	Dance6 Kick 3	÷
C6 C#6	84 85	÷	÷	Dance6 Kick 5 Dance6 Kick 1	Dance5 SFX Sound 25 Dance5 SFX Voice 1		÷
D6 E96	86 87	÷	÷	Dance6 Snare 1 Dance4 Hand Clap 6	Dance5 SFX Voice 2 Dance5 SFX Voice 3	Dance6 Snare 3 Dance6 Clap	÷
E6	88	* *	÷	Dance6 Snare 2 Elec.Low Tom 2	Dance5 SFX Voice 4 Dance5 SFX Voice 5		÷
F6 F\$6	90		·		Dances SFX Voice 5 Dances SFX Voice 6 Dances SFX Voice 7	Dance6 Closed Hi-Hat 4	
G6 A 6	91 92			Elec.Low Tom 1 Dance4 Closed Hi-Hat 6 Elec.Mid Tom 2	Dance5 SFX Voice 7 Dance5 SFX Voice 8 VL Snare		
A6 B)6				Elec.Mid Tom 2 Dance4 Open Hi-Hat 3		Dance6 Noise Hi-Hat	
B6	95			Elec.Mid Tom 1	VL Pong VL Ping		
C7 C#7	96 97 98			Techno Cymbal			
D7				Elec.Mid Tom 2 Dance4 Open Hi-Hat 3 Elec.Mid Tom 1 Elec.High Tom 2 Techno Cymbal Elec.High Tom 1 Techno Ride			
E7	99 100 101			Standard3 Low Tom 2			
F7 F\$7	102			Room Closed Hi-Hat			
G7				Standard3 Low Tom 1 Room Pedal Hi-Hat Standard3 Mid Tom 2			
A7 B97	105						
B7	107			Standard3 Mid Tom 1 Standard3 High Tom 2 Standard3 Crash Cymbal 1			
C8 C#8	108 109		1	Standard3 Crash Cymbal 1			4
D8 E 8				Standard3 High Tom 1 Standard3 Ride Cymbal 1			
E8	112			Tambourine 2			
F8 F28	114			Tambourine 3			
G8 A>8	114 115 116 117			Cabasa 2 Maracas 2 Claves 2			
A8	117			Claves 2 Mute Triangle 2			
B8	119			Mute Triangle 2 Open Triangle 2			
C9 C#9	120 121			Shaker 2 Hand Clap 1			
D9 Eb9				Hand Clap 2			
E9	124						
F9 F#9	125 126 127						
G9	127						

Kau				DRUMS	SET NAME		
Key	Note No.	582:HIP-HOP SET	583:ROOM SET	584:POWER SET	585:ROCK SET	586:ELECTRONIC SET	587:DRUM MACHINE SET 1
C-1 C#-1	0						
D-1 E)-1	2						
E-1	4						
F-1 F251	6						
G-1 Ab-1	7 8						
A-1 Bb-1	9 10						
B-1 C0	11 12						
C0 C20	13 14						
E0 E0	14 15 16						
50							
F#0	17 18 19						
A0 A0	20						
B0 B0	20 21 22 23						
C1 C21	23 24 25						
D1	25 26 27						
E1 E)1	27	÷	+ +	+ +	÷	+ +	÷
F1 F21	28 29	*	÷	÷	*	÷	÷
G1 AP1	30 31	Standard2 Sticks	Standard2 Sticks	Contraction Standard2 Sticks	÷	Standard2 Sticks	Standard2 Sticks
A1	33	÷	* *	÷	÷	÷	* *
B1 B51	35	+ Hip-Hop Kick 2	← Room Kick 2 Room Kick 1	← Power Kick 2	Rock Kick 2 Rock Kick 1	Elec.Kick 2	← DM1 Kick 2
C2	36 37	Hip-Hop Kick 1 Hip-Hop Side Stick	Room Kick 1 Standard2 Side Stick	Power Kick 1 Standard2 Side Stick	6	Elec.Kick 1	DM1 Kick 1 DM1 Rim Shot
D2	37 38 39	Hip-Hop Kick 2 Hip-Hop Kick 2 Hip-Hop Kick 1 Hip-Hop Side Slick Hip-Hop Snare 1 Hip-Hop Hand Clap Hip-Hop Snare 2 Shandard 1 any Tom 2	Standard2 Side Stick Room Snare 1	Power Snare 1	Rock Snare 1	Elec.Snare 1	DM1 Kick 1 DM1 Rim Shot DM1 Snare 1 DM1 Hand Clap
E2	40 41	Hip-Hop Snare 2	← Room Snare 2	Power Snare 2 Room Low Tom 2	Rock Snare 2		DM1 Snare 2
F2 F#2		Hip-Hop Share 2 Standard3 Low Tom 2 Hip-Hop Closed Hi-Hat Standard3 Low Tom 1 Hip-Hop Pedal Hi-Hat Standard3 Mid Tom 2	Room Low Tom 2 Room Closed Hi-Hat Room Low Tom 1 Room Pedal Hi-Hat Room Mid Tom 2	Room Low Tom 2 Room Closed Hi-Hat Room Low Tom 1 Room Pedal Hi-Hat Boom Mid Tom 2	Rock Snare 2 Rock Low Tom 2 Rock Low Tom 2 Rock Closed Hi-Hat Rock Low Tom 1 Rock Pedal Hi-Hat Rock Mid Tom 2 Benk Onen Hidt	Elec.Low Tom 2 Room Closed Hi-Hat Elec.Low Tom 1	DM1 Snare 2 DM1 Low Tom 2 DM1 Closed Hi-Hat 1 DM1 Low Tom 1
G2 A)2	42 43 44	Standard3 Low Tom 1 Hip-Hop Pedal Hi-Hat	Room Low Tom 1 Room Pedal Hi-Hat	Room Low Tom 1 Room Pedal Hi-Hat	Rock Low Tom 1 Rock Pedal Hi-Hat	Elec.Low Tom 1 Room Pedal Hi-Hat	DM1 Low Tom 1 DM1 Closed Hi-Hat 2
A2	45	Standard3 Mid Tom 2 Hip-Hop Open Hi-Hat	Room Mid Tom 2 Room Open Hi-Hat	Room Mid Tom 2 Room Open Hi-Hat	Rock Mid Tom 2 Rock Open Hi-Hat	Room Pedal Hi-Hat Elec.Mid Tom 2 Room Open Hi-Hat	DM1 Closed Hi-Hat 2 DM1 Mid Tom 2 DM1 Open Hi-Hat
B2	46 47 48	Standard3 Mid Tom 2 Hip-Hop Open Hi-Hat Standard3 Mid Tom 1 Standard3 High Tom 2 Standard3 Crash Cymbal 1 Standard3 Ride Cymbal 1 Standard3 Ride Cymbal 1 Standard3 Chinese Cymbal 1	Room Open Hi-Hat Room Mid Tom 1 Room High Tom 2	Room Open Hi-Hat Room Mid Tom 1 Room High Tom 2	Rock Open Hi-Hat Rock Mid Tom 1 Rock Mid Tom 2	Room Open Hi-Hat Elec.Mid Tom 1	DM1 Open Hi-Hat DM1 Mid Tom 1 DM1 High Tom 2
C3 C#3		Standard3 Crash Cymbal 1			Rock High Tom 2 Rock Crash Cymbal 1 Rock Righ Tom 1 Rock Ride Cymbal 1 Rock Ride Cymbal 1 Rock Ride Bell	Elec. High Tom 2 Standard3 Crash Cymbal 1	DM1 High Tom 2 DM1 Crash Cymbal DM1 High Tom 1 DM1 Ride Cymbal
D3 Eb3	49 50 51	Standard3 High Iom 1 Standard3 Ride Cymbal 1	Standard3 Ride Cymbal 1	Room High Tom 1 Standard3 Ride Cymbal 1 Standard3 Chinese Cymbal Standard3 Ride Bell	Rock High Iom 1 Rock Ride Cymbal 1	Elec.High Tom 1 Standard3 Ride Cymbal 1 Reverse Cymbal Standard3 Ride Bell	DM1 High Tom 1 DM1 Ride Cymbal
E3	52	Standard3 Ride Bell	Standard3 Chinese Cymbal Standard3 Ride Bell	Standard3 Chinese Cymbal Standard3 Ride Bell	Rock Chinese Cymbal Rock Ride Bell	Reverse Cymbal Standard3 Ride Bell	Standard3 Chinese Cymbai Standard3 Ride Bell
62	53 54 55 56	← Standard3 Splash Cymbal ←	← Standard3 Splash Cymbal		← Rock Splash Cymbal	← Standard3 Splash Cymbal	DM1 Tambourine Standard3 Splash Cymbal DM1 Cowbell
A3 A33	56	← Standard3 Crash Cymbal 2	€ Standard3 Crash Cymbal 2	Standard3 Splash Cymbal Standard3 Crash Cymbal 2	← Rock Crash Cymbal 2	€ Standard3 Crash Cymbal 2	DM1 Cowbell Standard3 Crash Cymbal 2
B3 B3	57 58	Standard3 Crash Cymbal 2 ← Standard3 Ride Cymbal 2	Standard3 Crash Cymbal 2 Standard3 Ride Cymbal 2		÷ .	÷ .	
	59 60	Standard3 Ride Cymbal 2 ← ←	Standard3 Ride Cymbal 2	Standard3 Ride Cymbal 2 ←	Rock Ride Cymbal 2	Standard3 Ride Cymbal 2	E Standard3 Ride Cymbal 2 DM1 High Bongo DM1 Low Bongo DM1 Low Bongo DM1 Mute High Conga DM1 Open High Conga DM1 Open Low Conga E
D4	61 62			÷	÷	÷	DM1 Low Bongo DM1 Mute High Conga
E4 E94	63 64	*	* * *	¢ ¢		4 4	DM1 Open High Conga DM1 Open Low Conga
F4 F54	65 66 67	÷	÷	* * *	*	* *	€ €
0.4		*	* * *	÷	÷	÷	+
A 64	69	÷	*	÷	÷	€ € Cabasa 2	← ← Cabasa 2
B4 B4	70	← High Whistle 2		← High Whistle 2	← High Whistle 2		DM1 Maracas High Whistle 2 Low Whistle 2
C5 C#5	72	High Whistle 2 Low Whistle 2	High Whistle 2 Low Whistle 2	High Whistle 2 Low Whistle 2	High Whistle 2 Low Whistle 2 E	High Whistle 2 Low Whistle 2	Low Whistle 2
D5 E 5		(÷	÷	÷	÷	÷
E5	74 75 76 77	÷ .	* *	4	+	+ +	DM1 Claves
F5 F#5		*	*	* *	*	*	€
G5 A55	78 79 80 81	÷	÷		÷	K K Mute Triangle 2 Open Triangle 2 Shericar 2	Mute Triangle 2
A5 Bh5		*	* * *	*	*	Open Triangle 2 Shaker 2	Mute Triangle 2 Open Triangle 2 Shaker 2
B5	82 83 84 85	*	÷	÷	÷	€	÷
C6 C#6	85	÷	÷	÷.	÷	÷	÷
D6 Eb6	86 87	÷ ÷	* *	÷	÷ ÷	÷	÷
E6 F6 E86	88 89	÷	÷ ÷	÷	÷	÷ ÷	+
	01						
A6 A6							
A6 B6	93 94						
	95 96						
D7	97						
E7 E97	99 100						
F7 F\$7	100 101 102			1			
G7 AP7	102		1				
A7 A7	103 104 105 106						
B7 B97	106						
C8 C#8	107 108 109 110						
D8	110						
E8	111 112						
F8 F#8	111 112 113 114 115						
G8	115						
A8 Phe	117						
B8	118						
C9 C#9	120 121						
D9 E)9	122						
E9	123 124 125						
F9 F#9	125 126 127						
G9	127						

No. No. Decome definition Decome definition Decome definition Decome definition 1 1 - -					DRUMS	SET NAME		
Hor Box Land Land <thland< th=""> <thland< th=""> <thland< th=""> <th< th=""><th>Key</th><th>Note No.</th><th>588:DRUM MACHINE SET 2</th><th>589:DRUM MACHINE SET 3</th><th></th><th></th><th>592:ORCHESTRA SET</th><th>593:LATIN SET 1</th></th<></thland<></thland<></thland<>	Key	Note No.	588:DRUM MACHINE SET 2	589:DRUM MACHINE SET 3			592:ORCHESTRA SET	593:LATIN SET 1
A A	C2-1	0						Timbal Slap Timbal Open
1 1 <td>D-1</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Timbal Bass</td>	D-1	2						Timbal Bass
G G	E-1	4						Surdo Body
1 1		6						Surdo Close Surdo Hand 1
I DD DD DD DD DD<	Δ1	7						
1 - <td></td> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Surdo Hand Off Surdo Open 1</td>		9						Surdo Hand Off Surdo Open 1
De	B-1							Surdo Open 2
Ind Ind <td></td> <td>13</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Surdo Kim</td>		13						Surdo Kim
10 0								
B B	EO	16						
D D	60	19				Einner Snen 3		
D D	A 60	20				Brush Slap 1 mp		
Gr Base bar		21				Brush Slap 1 ml Brush Slap 2		
D D	04	23			Jazz Snare 2 mp Jazz Snare 1 mp	Brush Swirl 2 Brush Swirl 3		
I I					Jazz Snare 1 mf Jazz Rim	Brush Swirl 4 Brush Swirl 5		
FI Direct Statistic Application Second Data Statistic Applicatistic Applicatistic Applicatistic Application Se	E1 E1		÷	÷	÷	÷	Standard3 Closed Hi-Hat Standard3 Redal Hi-Hat	
G Total Security Sites Backend Dise Research Dise <			÷	Dance4 Scratch Push	+	+	Standard3 Open Hi-Hat	
A B B C <thc< th=""> C C C C<td>01</td><td>31</td><td>Standard2 Sticks</td><td>Standard2 Sticks</td><td></td><td>Standard2 Sticks</td><td>Standard2 Sticks</td><td>Standard2 Sticks</td></thc<>	01	31	Standard2 Sticks	Standard2 Sticks		Standard2 Sticks	Standard2 Sticks	Standard2 Sticks
n n		33	÷	*		*		÷
C	B1 B21		← DM2 Kick 2		Jazz Kick 2	← Jazz Kick 2	Concert RD 2	← Standard3 Kick 2
Image: Process of the section of the sectio	00		DM2 Kick 1 DM1 Rim Shot	DM3 Kick 1 DM3 Rim Shot	Jazz Kick 1 Jazz Side Stick	Brush Kick Jazz Side Stick	Concert BD 1	Standard3 Kick 1 Standard2 Side Stick
B B <td>D2</td> <td>20</td> <td>DM2 Share 1</td> <td></td> <td>Jazz Snare 1</td> <td></td> <td>Concert SD</td> <td>Standard3 Snare 1</td>	D2	20	DM2 Share 1		Jazz Snare 1		Concert SD	Standard3 Snare 1
G. G.<	E2		DM2 Snare 2	DM3 Hand Clap 1 DM3 Snare 2	John Second 2	Brush Stap 1 Brush Swirl 1	Castanets Concert SD	Standard3 Snare 2
G. G.<		42	DM2 Low Tom 2 DM2 Closed Hi-Hat 1	DM3 Low Tom 2 DM3 Closed Hi-Hat 1	Jazz Low Tom 2 Room Closed Hi-Hat	Brush Low Tom 2 Standard3 Closed Hi-Hat	Timpani F Timpani F#	Standard3 Low Tom 2 Room Closed Hi-Hat
And Control Disk is firming Association of the process of the proces of the process of the proces	G2			DM3 Low Tom 1 DM3 Cleand Hi Hat 2	Jazz Low Tom 1	Brush Low Tom 1 Standard3 Closed Hi-Hat	Timpani G Timpani G	Standard3 Low Tom 1 Room Pedal Hi-Hat
C	A2	45	DM2 Mid Tom 2 DM2 Onen Hi Hat	DM3 Mid Tom 2 DM3 Open Hi Het 1	Jazz Mid Tom 2	Brush Mid Tom 2	Timpani A	Standard3 Mid Tom 2
C	B2	47	DM2 Open mi-mat DM2 Mid Tom 1	DM3 Mid Tom 1	Jazz Mid Tom 1		Timpani B	Standard3 Mid Tom 1
	C#3		DM2 High Tom 2 Standard3 Crash Cymbal 1	DM3 High Tom 2 DM3 Crash Cymbal 1	Jazz High Tom 2 Standard3 Crash Cymbal 1	Brush High Tom 2 Brush Crash Cymbal 1	Timpani C+ Timpani C#+	Standard3 High Tom 2 Standard3 Crash Cymbal 1
	D3	50	DM2 High Tom 1 Standard3 Ride Cymbal 1	DM3 High Tom 1 DM2 Ride Combel 1	Jazz High Tom 1 Standard3 Ride Cymbal 1	Brush High Tom 1 Brush Bide Crambel 1	Timpani D+ Timpani D#+	Standard3 High Tom 1 Standard3 Ride Cymbal 1
Base Base Control 1 (pink 1) Control 1 (pink 1) <th< td=""><td>E3</td><td>52</td><td>Standard3 Chinese Cymbal Standard3 Ride Bell</td><td>Standard3 Chinese Cymbal Standard3 Pide Bell</td><td>Standard3 Chinese Cymbal Standard3 Ride Bell</td><td>Standard3 Chinese Cymbal Bruch Ride Bell</td><td>Timponi E4</td><td>Standard3 Chinese Cymbal Standard3 Ride Ball</td></th<>	E3	52	Standard3 Chinese Cymbal Standard3 Ride Bell	Standard3 Chinese Cymbal Standard3 Pide Bell	Standard3 Chinese Cymbal Standard3 Ride Bell	Standard3 Chinese Cymbal Bruch Ride Bell	Timponi E4	Standard3 Chinese Cymbal Standard3 Ride Ball
A B		54	← Chardend0 Celeck Creskel	6	6	Brush Tambourine		€
B B		55	DM1 Cowbell	Standard3 Splash Cymbal	Standard3 Splash Cymbal ←	+	6	Standard3 Splash Cymbal
B B		57 58		Standard3 Crash Cymbal 2	Standard3 Crash Cymbal 2	4	÷ .	÷
D D	B3	59	Standard3 Ride Cymbal 2	DM3 Kick 4 DM3 Kick 3	Standard3 Ride Cymbal 2	Brush Ride Cymbal 2	Concert Cymbal 1	Standard3 Ride Cymbal 2
0 0		61		DM3 Hand Clap 2	÷	÷	÷	÷
r.d r.d <td></td> <td></td> <td>÷</td> <td>DM3 Snare 4</td> <td>4</td> <td>÷</td> <td>+</td> <td>÷</td>			÷	DM3 Snare 4	4	÷	+	÷
dia dia <thdia< th=""> <thdia< th=""> <thdia< th=""></thdia<></thdia<></thdia<>		64		DM3 Snare 5 DM3 Low Tom 4		÷	÷	
A B C DD DD DD DD Control C C C A C A C A C C A C A C A C A C A A C A A C A <th< td=""><td></td><td>66</td><td>+ +</td><td></td><td>+ +</td><td>4 4</td><td>÷ +</td><td>← High Agogo 3</td></th<>		66	+ +		+ +	4 4	÷ +	← High Agogo 3
D D <thd< th=""> <thd< th=""> <thd< th=""> <thd< th=""></thd<></thd<></thd<></thd<>	A54	68	← Cabasa 2	DM3 Closed Hi-Hat 4 DM3 Mid Tom 4	÷	÷	÷	Low Agogo 3
C5 72 Low Whate 2 Cow Whate 2 Low Whate 2 Cow Whate 2 <thcow 2<<="" td="" whate=""><td></td><td></td><td>DM1 Maracas</td><td>DM3 Open Hi-Hat 2</td><td>€</td><td>€</td><td>é</td><td>Shaker 3</td></thcow>			DM1 Maracas	DM3 Open Hi-Hat 2	€	€	é	Shaker 3
05 12 23 24 54 24<	05		Low Whistle 2	DM3 High Tom 4	Low Whistle 2	Low Whistle 2	Low Whistle 2	Low Whistle 2
et Diff Calves Diff Calves Diff Calves Diff Calves Diff Calves Control of Calves Con	025	73		DM3 Crash Cymbal 2 DM3 High Tom 3	÷		÷	Zabumba Open Zabumba Mute 1
6 B25 73 6 6 6 6 6 6 7 6 7 100 100	E5 E5	75	€	DM3 Ride Cymbal 2 Standard3 Chinese Cymbal	+ +	÷		
G M3 B M Trange 3 Mule 1 A3 B3 C Main 1 C C Trange 3 Mule 1 A3 B3 C Main 1 DM Concell C C Trange 3 Mule 1 A3 B3 C DM Concell C C C C Trange 3 Mule 1 A3 B3 C DM Concell C C C C Trange 3 Mule 1 B3 C DM Concell C C C C Particle 1	F5 545		÷	Standard3 Ride Bell	÷	÷		
As Et Open Trange 2 Standad Crash Cymbal 2 e e e e Trange 3 (pm) B BD 2 BD 2 BD 2 BD 2 E E Trange 3 (pm) C		78		Standard3 Splash Cymbal	÷	4	é	Triangle 3 Mute 1
BB BC BC C Dublic Contain C C C C Produce 10 Produce 20	A.E.	81	Open Triangle 2	Standard3 Crash Cymbal 2		÷	÷	Triangle 3 Open
C C C C C C C C C C P ander 1 D D B C C C C C C P ander 1 D D B C C C C C C P ander 1 D D B C C C C C C P ander 1 D P ander 1 D<	B5	83	snaker 2	DM3 Conga	÷	÷	÷	
6 Box 2 6 6 6 Paddes 1 m 6 Figh 8 6 Clup Revel 6 6 6 9 <td>C6 C#6</td> <td>84 85</td> <td>* *</td> <td></td> <td>÷</td> <td>* *</td> <td>÷</td> <td>Pandeiro 1 D Pandeiro 1 G</td>	C6 C#6	84 85	* *		÷	* *	÷	Pandeiro 1 D Pandeiro 1 G
E6 E6 Fight Stap 2 \bullet	D6	86	÷			÷		Pandeiro 1 GDM Pandeiro 1 T
B B C Paddes 1 Mod Turbicin Head 1 Turbicin Head 2 Turbicin Head 2 T	E6		÷	Finger Snap 2	+	÷	÷	Pandairo 1 /G
Image: Second	F26	89	-	Clap Reverb	-	-		Pandeiro 1 G/DM Pandeiro 1 Jingle
Ab	A > 6	92						
C7 63 C3 C3 <td< td=""><td>A6</td><td>93</td><td></td><td></td><td></td><td></td><td></td><td>Tamborim Head 2 Tamborim Head Edge</td></td<>	A6	93						Tamborim Head 2 Tamborim Head Edge
C1 C37 C3	B6							Tamborim Head Finger 1
B P								Tamborim Tail Finger
E7 000 Particle 2 0 7 572 002 07 100 Particle 2 0 7 100 Particle 2 0 8 100 Particle 2 0 8 100 Particle 2 0 18 100 Particle 2 0 19 100 Particle 2 0 10 Particle 2 0 Particle 2 0		99						Pandeiro 2 P
1 172 102 102 102 104 Podeo 2 GOM 1 103 104 Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM 1 104 Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM 1 104 Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM 1 104 Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM 1 104 Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM 1 104 Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM 1 104 Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM 1 104 Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM 1 104 Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM 1 104 Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM Podeo 2 GOM 1 104 Podeo 2 GOM 1 104 Podeo 2 G	E7	100						Pandeiro 2 D Bandeiro 2 C
Art Art Base Partice 2 6 Out Partice 2 6 Out 87 87 100 Partice 2 6 Out Partice 2 6 Out <t< td=""><td>67</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Pandeiro 2 GDM Pandeiro 2 T</td></t<>	67							Pandeiro 2 GDM Pandeiro 2 T
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	A \$7							Pandeiro 2 /G
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		106						Pandeiro 2 GrDM Pandeiro 2 Jingle
De DOM DOM <thdom< th=""> DOM <thdom< th=""> <thdom< th=""> <thdom< th=""></thdom<></thdom<></thdom<></thdom<>		108						
B 230 1110 F8 F203 116 F8 F203 F203 F9 F203 F203 F9 F203 F203 F9 F203 F203 F9 F203 F203	D2	110						
F0 F0<		111						
AB AD2 119 AB AD3 119 BB T10 C CB T20 C		112						
AB AD2 119 AB AD3 119 BB T10 C CB T20 C	1410	114						
C9 120 D9 121 D9 122 F1 124 F9 126 F9 126	A9	116 117						
C9 120 D9 121 D9 122 F1 124 F9 126 F9 126		118						
09 122 123 123 123 123 123 123 123 123 123		120						
EB3 123 E9 124 F9 125 F9 125	C29	121						
F9 125 - 220 128		123						
	F9 ===9	125						
	G9							

Key	Note No.				DRUMS SET NAME			
	Note No.	594:LATIN SET 2	595:INDONESIAN SET	596:INDIAN SET	597:ARABIC SET	598:CHINESE SET	599:SFX SET 1	600:SFX SET 2
C-1 C#-1	0		÷	Morsing B 1 Morsing B 2				
D-1	2		÷	Morsing B 3				
E-1	4		÷	Morsing B 5				
F-1 F2-1	6		¢ ¢	Morsing B 5 Morsing E 1 Morsing E 2				
G-1 Ab-1	7 8		÷ ÷					
A-1 B>1	9 10		(Morsing E 4 Morsing E 5 Morsing G 1 Morsing G 2				
B-1	11		÷	Morsing G 2				
C0 C#0	12 13 14		÷	Morsing G 3 Morsing G 4				
D0 E00	14		* *	Morsing G 5 Gatham Dom				
E0 E10	16		÷	Gatham Ta Gatham Dim				
F\$0	17 18			Gatham Nam Thavil Nam				
G0 A>0	19 20			Thavil Ki				
A0 B>0	21			Thavil Kun Thavil Jou				
B0	22			Thavil Jou Thavil Kirara				
C1 C#1	24 25			Kanjira Ta Kanjira Di				
D1 Eb1	26			Kanjira Don Kanjira Don BendShort	*			
E1	28			,	* *			
F1 F21	30 31				4			
G1	31 32 33	Standard2 Sticks	Standard2 Sticks	Standard2 Sticks		Standard2 Sticks		
A1		*	* * *	* *	* *	* *		
B1	34 35	Surdo Body	Standard3 Kick 2 Standard3 Kick 1	Standard3 Kick 2 Standard3 Kick 1	Standard3 Kick 2	← Standard3 Kick 2	D-1	Car Horn
C2	36 37	Surdo Body Surdo Close Surdo Hand 1	Standard2 Side Stick	Standard2 Side Stick	Standard3 Kick 1 Standard2 Side Stick	Standard3 Kick 1 Standard2 Side Stick	Rain Seashore Thunder	Gai nom
D2 E)2	38 39	Surdo Hand 1 Surdo Hand 2 Surdo Hand 3	Standard3 Snare 1	Standard3 Snare 1	Standard3 Snare 1 Standard3 Snare 2	Standard2 Side Slock Standard3 Snare 1	Thunder Wind Bubble	
E2	40		Standard3 Snare 2 Standard3 Low Tom 2	Standard3 Snare 2 Standard3 Low Tom 2	Standard3 Snare 2 Standard3 Low Tom 2	Standard3 Snare 2 Standard3 Low Tom 2	Bubble Bird	
F2 F#2		Surdo Open 1	Beem Clesed Hi Het	Room Closed Hi Hot	Room Closed Hi Het	Room Closed Hi-Hat	Cat	1
G2	42 43 44	Surdo Open 1 Surdo Open 2 Surdo Rim Tamborim Head 1	Standard3 Low Tom 1 Room Pedal Hi-Hat Standard3 Mid Tom 2	Standard3 Low Tom 1 Room Pedal Hi-Hat Standard3 Mid Tom 2	Standard3 Low Tom 1 Room Pedal Hi-Hat	Room Closed Hi-Hat Standard3 Low Tom 1 Room Pedal Hi-Hat Standard3 Mid Tom 2	Rooster Cow	
A2	45		Standard3 Mid Tom 2 Room Open Hi-Hat	Standard3 Mid Tom 2 Room Open Hi-Hat		Standard3 Mid Tom 2 Room Open Hi-Hat	Cow Dog Donkey	
B2	40 47 48	Tamborim Head 2 Tamborim Head Edge Tamborim Head Finger 1	Room Open Hi-Hat Standard3 Mid Tom 1 Standard3 High Tom 2 Standard3 Crash Cymbal 1	Room Open Hi-Hat Standard3 Mid Tom 1 Standard3 High Tom 2	Room Open Hi-Hat Standard3 Mid Tom 1 Standard3 High Tom 2 Standard3 Crash Cymbal 1	Room Open Hi-Hat Standard3 Mid Tom 1 Standard3 High Tom 2 Standard3 Crash Cymbal 1	Elephant Goat	Train
C3	49	Tamborim Head Finger 2	Standard3 Crash Cymbal 1		Standard3 Crash Cymbal 1	Standard3 Crash Cymbal 1		rrain
D3 ED3	50 51	Tamborim Tail Finger Tamborim Roll	Standard3 High Tom 1 Standard3 Ride Cymbal 1 Standard3 Ride Cymbal 1 Standard3 Ride Bell	Standard3 High Tom 1 Standard3 Ride Cymbal 1 Standard3 Ride Cymbal 1 Standard3 Ride Bell	Standard3 High Tom 1 Standard3 Ride Cymbal 1 Standard3 Ride Cymbal 1 Standard3 Ride Bell	Standard3 High Tom 1 Standard3 Ride Cymbal 1 Standard3 Ride Cymbal 1 Standard3 Ride Bell	Horse Gallop Lion Roar	
E3	02	Tamborim Roll Standard2 Snare 2 Standard2 Snare 2	Standard3 Chinese Cymbal Standard3 Ride Rell	Standard3 Chinese Cymbal Standard3 Ride Rell	Standard3 Chinese Cymbal Standard3 Ride Rell	Standard3 Chinese Cymbal Standard3 Ride Pell	Nightingale Peacock	
F3 F#3	53 54	€					Applause 3 Footsteps	
G3	55 56	* *	Standard3 Splash Cymbal Standard3 Crash Cymbal 2	Standard3 Splash Cymbal Standard3 Crash Cymbal 2	Standard3 Splash Cymbal Standard3 Crash Cymbal 2	Standard3 Splash Cymbal		
A3	57	*		Standard3 Crash Cymbal 2	6	← Standard3 Crash Cymbal 2	Heartbeat Child Crying Child Launhing	
B3	59	÷ .	Standard3 Ride Cymbal 2	← Standard3 Ride Cymbal 2	Standard3 Ride Cymbal 2	Standard3 Ride Cymbal 2	Child Laughing Man Laughing Punch Scream	Buzzer
C4 C#4	60	÷	÷	÷	÷	÷ .	Scream	Buzzer
D4	62	+	÷	÷	÷ ÷	÷	Roller Coaster Bike Vroom	
E4	63 64	*	*	*	* *	÷	Car Passing Car Crash	
F4 F\$4	65 66 67	* *	* *	* *	* *	* *	Car Crash Car Engine Ignition Car Hom	
G4		÷	÷	÷	÷		Car Hom Jet Plane	
A4	68 69 70	¢ ¢	Ketipung L Dang Deng	(← Tablah 1 Tablah 2	← Ban Gu	Jet Plane Submarine	
B4	70 71	÷ ÷	Ketipung L Dang Deng Mute	← Tabla Ge	Tablah 3	Hu Yin Luo Xiao Luo	Car Tires Squeal Train	
C5 C#5	72 73	← Timbal Slap	Ketipung L Dang Dhuk 2 Ketipung L Dang Dhuk 2 Ketipung L Dang Dhuk 3	Tabla Ka Tabla Te	Daf 1 Daf 2	Xiao Bo Low Tang Gu	Buzzer Coin	Clock Tick-tock
D5	74	Timbal Open Timbal Bass	Ketipung L Dang Dhuk Fast	Tabla Na Tabla Tun	Riq 1 Rig 2	Mid Tang Gu High Tang Gu Gong 1 Gong 2	Scratch Shankh	
E5	76	Timbal Moff	Ketipung L Dang Finger Rim Ketipung L Dang Skin Left	Dholak Ge Dholak Ke	Riq 3 Davul 1	Gong 1	Cleak Tiek teek	
F5 F\$5	78	Ganza Ganza Bottom	Ketipung L Dang Skin Left Ketipung L Dang Thumb Rim	Dholak Ke Dholak Ta 1 Dholak Ta 2	Davul 1 Davul 2 Zill 1		Whistle 1 Whistle 2	
G5 Ab5	79 80	Triangle 3 Mute 1	Ketipung L Dang Thumb Rim Ketipung H Dut Flam Right Finger Ketipung H Dut Ket		Zill 1 Zill 2	Yun Luo G Yun Luo G#	Whistle 3	
A5 815	80 81	Triangle 3 Mute 2 Triangle 3 Open Triangle 3 Half Mute	Ketipung H Dut Ket Ketipung H Dut Pok Ketipung H Dut Skin Right	Dholak Ta 3 Dholak Ring		Yun Luo G# Yun Luo A Yun Luo A#	Blast Bar Chimes	
B5	82 83	Pandeiro 2 P	Ketipung H Dut Tak	Mridangam Tha		Yun Luo B	Doorbell	
C6 C#6	84 85	Pandeiro 2 D Pandeiro 2 G Pandeiro 2 GDM	Ketipung H Dut Tak Ketipung H Dut Tak Ketipung H Dut Tang Ketipung H Dut Tex Ketipung H Dut Tung	Mridangam Tha Mridangam Dhom Mridangam Dhi		Yun Luo C+ Yun Luo C#	Door Slam Door Squeak	Door Squeak
D6	86	Pandeiro 2 GDM Pandeiro 2 T	Ketipung H Dut Tung Rebana Hadroh D1	Mridangam Dhin Mridangam Num		Yun Luo D+ Yun Luo D#+	Firework Gunshot	
E6	88	Dondoire 2 /C	Rebana Hadroh D2	Table Co Side 1	Riq Jingle	Yun Luo E+ Yun Luo F+	Machina Cue	
F6 F\$6	89 90	Pandeiro 2 G/DM Pandeiro 2 Jingle	Rebana Hadroh D&D Rebana Hadroh T1	Tabla Ge Slide 2 Bhangra Aha	Riq Jingle Riq Slap Riq Tek 1	Yun Luo F+ Yun Luo F#+ Yun Luo G+	Police Siren Telephone Call	
G6 Ab6	91 92	-	Rebana Hadroh T2 Rebana Hadroh T&T		Riq Tek 2		Telephone Ring Temple Bell	
A6	93			Bhangra Chakde Bhangra Hoye Bhangra Oho Bhangra Oh-Balle		Yun Luo A+ Yun Luo A#+		
B6	94 95 96			Bhangra Oh-Balle		I Yun Luo B+		
C7 C#7				Bhangra Oh-Shava Nagada Rim 1 Nagada Rim 2		Yun Luo C++		
D7	97 98 99			Nagada Rim 2 Duff Close				
E7	99 100			Duff Open				
F7 F#7	101 102			Duffi Close 1 Duffi Close 2 Duffi Close 3				
G7	103 104			Duffli Close 3 Duffli Open 1				
A7 [105			Duffli Open 1 Duffli Open 2				
B7 B7	106			Duffi Jingle 1 Duffi Jingle 2				
C8 C≴8	108		÷	Dhol L Dhol H				
D8 E18	109 110 111		÷	Dumru Ghungroo 1				
E8	111 112 113		÷	Ghungroo 2 Tasha 1				
F8 F#8				Tasha 1 Tasha 2				
G8 A>8	114 115 116		*					
48	116 117		* *					
B8 B>8	118 119		← ←					
C9 C≴9	120		÷					
D9 Eb9	121 122 123							
E9	124							
F9	125 126 127							
F9 F29 G9								

Versatile Tone Map

Key	Velocity	Sound
	TILE NYLON GI	
	1-30	Normal mp
	31-60	Normal mf
	61-75	Ghost Note
C1 - B6	76-90	Mute
	91-105	Hammering
	106-120	Glissando
	121-127	Open Harmonics
C7	1-127	Strum 1
C#7	1-127	Strum 2
D7	1-127	Strum 3
E♭7	1-127	Strum 4
E7	1-127	Strum 5
F7	1-127	Strum 6
F#7	1-127	Strum 7
G7	1-127	Strum 8
A67	1-127	Strum 9
A7	1-127	Strum 10
B♭7	1-127	Strum 11
B7	1-127	Strings Slap 1
C8	1-127	Strings Slap 2
C#8	1-127	Strings Slap 3
D8	1-127	Strings Slap 4
D#8	1-127	Strings Slap 5
E8	1-127	Body 1
F8	1-127	Body 2
F#8	1-127	Body 3
G8	1-127	Body 4
G#8	1-127	Body 5
A8	1-127	Body 6
A#8 B8	1-127	Body 7
B8 C9	1-127 1-127	Body 8 Fret Noise1
C#9	1-127	Fret Noise2
D9		Fret Noise3
D9	1-127 1-127	Fret Noise3
E9	1-127	Fret Noise5
E9 F9	1-127	Head String1
F9 F#9	1-127	Head String2
G9	1-127	Head String3
	TILE STEEL GU	<u> </u>
	1-30	Normal mp
	31-60	Normal mf
	61-75	Ghost Note
C1 - B6	76-90	Mute
0. 00	91-105	Hammering
	106-120	Glissando
	121-127	Open Harmonics
C7	1-127	Strum 1
		I

Key Velocity Sound C#7 1-127 Strum 2 D7 1-127 Strum 3 D#7 1-127 Strum 4 E7 1-127 Strum 6 F7 1-127 Strum 7 G7 1-127 Strum 9 A7 1-127 Strum 9 A7 1-127 Strings Slap 1 A#7 1-127 Strings Slap 2 B7 1-127 Strings Slap 3 C8 1-127 Strings Slap 4 C#8 1-127 Strings Slap 5 D8 1-127 Strings Slap 6 D#8 1-127 Body 1 F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 </th <th></th> <th></th> <th></th>			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			
E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7 G7 1-127 Strum 9 A7 1-127 Strings Slap 1 A#7 1-127 Strings Slap 2 B7 1-127 Strings Slap 3 C8 1-127 Strings Slap 4 C#8 1-127 Strings Slap 5 D8 1-127 Strings Slap 6 D#8 1-127 Strings Slap 6 D#8 1-127 Strings Slap 7 E8 1-127 Body 1 F8 1-127 Body 1 F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 4 G#8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Fret Noise1 C #9 1-127 Fret Noise2 D9 1-127 <t< td=""><td></td><td></td><td>-</td></t<>			-
F7 1-127 Strum 6 F#7 1-127 Strum 7 G7 1-127 Strum 8 G#7 1-127 Strings Slap 1 A#7 1-127 Strings Slap 2 B7 1-127 Strings Slap 3 C8 1-127 Strings Slap 4 C#8 1-127 Strings Slap 5 D8 1-127 Strings Slap 6 D#8 1-127 Body 1 F8 1-127 Body 1 F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 5 A8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Body 7 B8 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Head			
F#7 1-127 Strum 7 G7 1-127 Strum 8 G#7 1-127 Strings Slap 1 A4 1-127 Strings Slap 2 B7 1-127 Strings Slap 3 C8 1-127 Strings Slap 4 C#8 1-127 Strings Slap 5 D8 1-127 Strings Slap 6 D#8 1-127 Strings Slap 6 D#8 1-127 Body 1 F8 1-127 Body 1 F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 4 G#8 1-127 Body 6 A#8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127			
G7 1-127 Strum 8 G#7 1-127 Strings Slap 1 A7 1-127 Strings Slap 2 B7 1-127 Strings Slap 3 C8 1-127 Strings Slap 4 C#8 1-127 Strings Slap 5 D8 1-127 Strings Slap 6 D#8 1-127 Strings Slap 7 E8 1-127 Body 1 F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Body 7 B8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Head String2 G9 1-127			
G#7 1-127 Strum 9 A7 1-127 Strings Slap 1 A#7 1-127 Strings Slap 2 B7 1-127 Strings Slap 3 C8 1-127 Strings Slap 4 C#8 1-127 Strings Slap 5 D8 1-127 Strings Slap 6 D#8 1-127 Strings Slap 7 E8 1-127 Body 1 F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COLL E			
A7 1-127 Strings Slap 1 A#7 1-127 Strings Slap 2 B7 1-127 Strings Slap 3 C8 1-127 Strings Slap 4 C#8 1-127 Strings Slap 5 D8 1-127 Strings Slap 6 D#8 1-127 Strings Slap 7 E8 1-127 Body 1 F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 4 G#8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COLL E.G			
A#7 1-127 Strings Slap 2 B7 1-127 Strings Slap 3 C8 1-127 Strings Slap 4 C#8 1-127 Strings Slap 5 D8 1-127 Strings Slap 6 D#8 1-127 Strings Slap 7 E8 1-127 Body 1 F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 4 G#8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COLL E.GUITAR 1-30 Normal mp 31			
B7 1-127 Strings Slap 3 B8 1-127 Strings Slap 4 C#8 1-127 Strings Slap 5 D8 1-127 Strings Slap 6 D#8 1-127 Strings Slap 7 E8 1-127 Body 1 F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Body 7 B8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Head String1 F#9 1-127 Head String3 137 VERSATILE SINGLE COLL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 Normal mp 31-60 Normal mp 1-127			
C8 1-127 Strings Slap 4 C#8 1-127 Strings Slap 5 D8 1-127 Strings Slap 6 D#8 1-127 Strings Slap 7 E8 1-127 Body 1 F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise3 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Head String1 F#9 1-127 Head String3 137 VERSATILE SINGLE COLL E.GUIT AR 1-30 Normal mp 31-60 Normal mp 31-60		=.	
C#8 1-127 Strings Slap 5 D8 1-127 Strings Slap 6 D#8 1-127 Strings Slap 7 E8 1-127 Body 1 F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Body 7 B8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String1 F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COLL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 Normal mf 61-75 Ghost Note C7 1-127 Strum 2			* '
D8 1-127 Strings Slap 6 D#8 1-127 Strings Slap 7 E8 1-127 Body 1 F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Body 7 B8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COLL E.GUIT AR 1-30 Normal mp 31-60 Normal mp 31-60 Normal mp 106-120 Glissando 121-127 Open Harmonics C7 </td <td></td> <td></td> <td>•</td>			•
D#8 1-127 Strings Slap 7 E8 1-127 Body 1 F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Body 7 B8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String1 F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COLL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 Normal mf 61-75 Ghost Note C1 - B6 76-90 Mute			
E8 1-127 Body 1 F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Body 7 B8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String1 F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COLL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 Normal mf 61-75 Ghost Note C1 - B6 76-90 Mute 91-105 Hammering 106-120			° 1
F8 1-127 Body 2 F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Body 7 B8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String1 F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COLL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 Normal mp 31-60 Normal mf 61-75 Ghost Note C1 - B6 76-90 91-105 Hammering 106-120 Glissando <tr< td=""><td></td><td></td><td></td></tr<>			
F#8 1-127 Body 3 G8 1-127 Body 4 G#8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Body 7 B8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String1 F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COLL E.GUITAR 1-30 Normal mp 31-60 Normal mf 61-75 Ghost Note C1-76 Ghost Note C1 - B6 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C#7 1-127 Strum 3 <t< td=""><td></td><td></td><td>, ,</td></t<>			, ,
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			
G#8 1-127 Body 5 A8 1-127 Body 6 A#8 1-127 Body 7 B8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String1 F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COLL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 Normal mf 61-75 Ghost Note C1 - B6 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C#7 1-127 Strum 3 D#7 1-127 <			
A8 1-127 Body 6 A#8 1-127 Body 7 B8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String1 F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COLL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 Normal mf 61-75 Ghost Note C1 - B6 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C#7 1-127 Strum 3 D7 1-127 Strum 4 E7 1-127 <td< td=""><td></td><td></td><td>,</td></td<>			,
A#8 1-127 Body 7 B8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String1 F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COIL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 Normal mp 31-60 Normal mf 61-75 Ghost Note C1 - B6 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 Ct#7 C#7 1-127 Strum 3 D#7 1-127 D7 1-127 Strum 4 E7 1-127 E7 1-127			,
B8 1-127 Body 8 C9 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String1 F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COIL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 Normal mf 61-75 Ghost Note 61-75 Ghost Note C1 - B6 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 Ct#7 C#7 1-127 Strum 3 D#7 1-127 Strum 4 E7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 6			Body 6
C9 1-127 Fret Noise1 C#9 1-127 Fret Noise2 D9 1-127 Fret Noise3 D#9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String1 F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COLL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 Normal mf 61-75 Ghost Note C1 - B6 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C#7 1-127 Strum 3 D7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7	A#8		Body 7
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $,
D9 1-127 Fret Noise3 D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String1 F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COIL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 Normal mf 61-75 Ghost Note 61-75 Ghost Note C1 - B6 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C C#7 1-127 Strum 2 D7 D7 1-127 Strum 3 D D#7 1-127 Strum 4 E7 E7 1-127 Strum 5 F7 F7 1-127 Strum 6 F#7			
D#9 1-127 Fret Noise4 E9 1-127 Fret Noise5 F9 1-127 Head String1 F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COIL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 61-75 Ghost Note 61-75 G1-75 Ghost Note 121-127 01-105 Hammering 106-120 105-120 Glissando 121-127 07 1-127 Strum 1 C#7 1-127 Strum 2 D7 1-127 Strum 3 D#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 6	C#9	1-127	
E9 1-127 Fret Noise5 F9 1-127 Head String1 F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COLL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 C1 - B6 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7			
F9 1-127 Head String1 F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COIL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 61-75 Ghost Note 61-75 C1 - B6 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7	D#9		
F#9 1-127 Head String2 G9 1-127 Head String3 137 VERSATILE SINGLE COIL E.GUITAR 1-30 Normal mp 31-60 Normal mf 61-75 Ghost Note C1 - B6 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C#7 C#7 1-127 D7 1-127 D7 1-127 Strum 3 D#7 D#7 1-127 Strum 4 E7 F7 1-127 F7 1-127 Strum 5 F7 F7 1-127 Strum 6 F#7 F#7 1-127	E9	1-127	Fret Noise5
G9 1-127 Head String3 137 VERSATILE SINGLE COIL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 C1 - B6 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C#7 1-127 Strum 3 D#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 5 F7 1-127 Strum 7	F9	1-127	Head String1
137 VERSATILE SINGLE COIL E.GUITAR 1-30 Normal mp 31-60 Normal mp 31-60 Normal mf 61-75 Ghost Note 0 91-105 Hammering 106-120 0106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C C#7 1-127 D7 1-127 D7 1-127 Strum 3 D D#7 1-127 Strum 4 E7 F7 1-127 Strum 5 F7 F7 1-127 Strum 6 F#7			3
1-30 Normal mp 31-60 Normal mf 61-75 Ghost Note 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C#7 1-127 Strum 2 D7 1-127 Strum 3 D#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 5 F7 1-127 Strum 7			
31-60 Normal mf 61-75 Ghost Note 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C#7 1-127 Strum 2 D7 1-127 Strum 3 D#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7	137 VERSA		
61-75 Ghost Note C1 - B6 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C#7 1-127 Strum 2 D7 1-127 Strum 3 D#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7			
C1 - B6 76-90 Mute 91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C#7 1-127 Strum 2 D7 1-127 Strum 3 D#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7			
91-105 Hammering 106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C#7 1-127 Strum 2 D7 1-127 Strum 3 D#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7			
106-120 Glissando 121-127 Open Harmonics C7 1-127 Strum 1 C#7 1-127 Strum 2 D7 1-127 Strum 3 D#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7	C1 - B6		
121-127 Open Harmonics C7 1-127 Strum 1 C#7 1-127 Strum 2 D7 1-127 Strum 3 D#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7			•
C7 1-127 Strum 1 C#7 1-127 Strum 2 D7 1-127 Strum 3 D#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7			
C#7 1-127 Strum 2 D7 1-127 Strum 3 D#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7			
D7 1-127 Strum 3 D#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7			
D#7 1-127 Strum 4 E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7			
E7 1-127 Strum 5 F7 1-127 Strum 6 F#7 1-127 Strum 7	D7		Strum 3
F7 1-127 Strum 6 F#7 1-127 Strum 7	D#7	1-127	
F#7 1-127 Strum 7			
		1-127	Strum 6
	F#7		Strum 7
G/ 1-12/ Strum 8	G7	1-127	Strum 8
G#7 1-127 Strum 9			
A7 1-127 Strum 10	A7	1-127	Strum 10

V	Volocitu	Cound
Key	Velocity	Sound
A#7	1-127	Strum 11
B7	1-127	Strum 12
C8	1-127	Strum 13
C#8	1-127	Strum 14
D8	1-127	Low Ghost Note 1
D#8	1-127	Low Ghost Note 2
E8	1-127	Low Ghost Note 3
F8	1-127	Low Ghost Note 4
F#8	1-127	Low Ghost Note 5
G8	1-127	Low Ghost Note 6
G#8	1-127	Low Ghost Note 7
A8	1-127	Low Ghost Note 8
A#8	1-127	Low Ghost Note 9
B8	1-127	Low Ghost Note 10
C9	1-127	Fret Noise1
C#9	1-127	Fret Noise2
D9	1-127	Fret Noise3
D#9	1-127	Fret Noise4
E9	1-127	Fret Noise5
F9	1-127	Fret Noise6
F#9	1-127	Fret Noise7
G9	1-127	Fret Noise8
181 VERSA	TILE ELECTRI	C BASS 1
	1-60	Normal mf
C1 - B6	61-80	Normal ff
CT-B0	81-120	Ghost Note
	121-127	Slap
C7	1-127	Gliss 1
C#7	1-127	Gliss 2
D7	1-127	Gliss 3
D#7	1-127	Gliss 4
E7	1-127	Gliss 5
F7	1-127	Gliss 6
F#7	1-127	Gliss 7
G7	1-127	Fret Noise 1
G#7	1-127	Fret Noise 2
182 VERSA	TILE ELECTRI	C BASS 2
	1-60	Normal mf
04 50	61-80	Normal ff
C1 - B6	81-120	Ghost Note
	121-127	Slap
C7	1-127	Gliss 1
C#7	1-127	Gliss 2
D7	1-127	Gliss 3
D#7	1-127	Gliss 4
E7	1-127	Gliss 5
F7	1-127	Gliss 6
F#7	1-127	Gliss 7
G7	1-127	Fret Noise 1
G#7	1-127	Fret Noise 2
011		

Key	Velocity	Sound
233 VERSA	TILE BRASS 1	
	1-20	Normal mf
	21-40	Normal f
	41-60	Normal ff
	61-80	Attack
C1 - G9	81-90	Schoop
	91-100	Shake
	101-110	Falls Fast mf
	111-120	Falls Fast f
	121-127	Gliss up
234 VERSA	TILE BRASS 2	
	1-30	Normal f
	31-60	Normal ff
	61-75	Attack
C1 - G9	76-90	Schoop
	91-105	Shake
	106-120	Falls Fast f
	121-127	Gliss up

NOTE

• Versatile tones are intended for DTM (desktop music, or computer music). Performance sounds of stringed instruments, wind instruments, and other instruments, as well as noise peculiar to instruments are assigned in accordance with the key press strength (velocity). Because of this, when playing on the keyboard, relatively slight changes in keyboard pressure can result in large changes in volume, or changes in keyboard pressure may be opposite what is expected.

Home Customization 5 buttons Function List

Category	Screen		Display Name	9	Screen	
BLANK	BLANK	Empty			Blank	
MENU	MENU	Menu Item My	Setup	My Setup on Menu		
		Menu Item Ka	raoke		Karaoke on Menu	
		Menu Item Me	tronome		Metronome on Menu	
		Menu Item Ba	ance		Balance on Menu	
		Menu Item Oc	tave Shift		Octave Shift on Menu	
		Menu Item Su	stain		Sustain on Menu	
		Menu Item Pe	dal		Pedal on Menu	
		Menu Item Ch	ord Book		Chord Book on Menu	
		Menu Item Sys	stem Effects		System FX on Menu	
		Menu Item Eq	ualizer		Equalizer on Menu	
		Menu Item Sca	ale Tuning		Scale on Menu	
		Menu Item Blu	etooth		Bluetooth on Menu	
		Menu Item Me	Media on Menu			
		Menu Item Se	tting	Setting on Menu		
		Menu Item De	mo	Demo on Menu		
TONE	TONE	Tone Upper1			Tone Upper1	
			Upper2		Tone Upper2	
		Lower			Tone Lower	
		Split	Split			
		Layer	Layer			
		Touch Respor	Touch Response			
BALANCE	BALANCE	Upper1	Part Volume Upper1			
		Upper2	Part Volume Upper2			
		Lower	Part Volume Lower			
		Rhythm (Same	e as Rhythm vo	Rhythm Volume		
OCTAVE SHIFT	OCTAVE SHIFT	Upper octave	+		Upper Octave Shift +	
		shift	-		Upper Octave Shift -	
		Upper			Upper Octave Shift	
		Upper1			Part Octave Shift U1	
		Upper2	Part Octave Shift U2			
		Lower			Part Octave Shift L	
SUSTAIN	SUSTAIN	Sustain			Sustain	
PEDAL	PEDAL	Pedal 1	Effect Part	Upper1	Pedal Upper1	
				Upper2	Pedal Upper2	
				Lower	Pedal Lower	
METRONOME	METRONOME	Start/Stop	•	•	Metronome St/Sp	

Category	Screen		Display Name	Screen
TEMPO	TEMPO	+		Tempo +
		-		Tempo –
		Tap tempo		Tap Tempo
RHYTHM	RHYTHM*1	Intro		Rhythm Intro
		Variation		Rhythm Variation*2
		FILL-IN		Rhythm Fill-in*3
		Synchro star	t	Rhythm Sync Start
		Synchro Stop)	Rhythm Sync Stop
		AC		Rhythm Accomp
		Chord mode		Rhythm Chord Mode
		Volume		Rhythm Volume
SYSTEM EFFECT	SYSTEM	Reverb type		Reverb
	EFFECT	Chorus type		Chorus
MIDI	MIDI	MIDI OUT channel	Upper1	MIDI Out Ch Upper1
			Upper2	MIDI Out Ch Upper2
			Lower	MIDI Out Ch Lower
		MIDI IN	Туре	MIDI In Navigate
		Navigate	Right	MIDI In Navi Ch Right
			Left	MIDI In Navi Ch Left
		Local Contro	I	Local Control
SETTING	SETTING	Transpose	+	Transpose +
			-	Transpose –
		Transpose		Transpose
		Key Light		Key Light
		Mic Reverb		Mic Reverb
		Tuning		Tuning
		Surround		Surround
		Audio center	cancel	Audio In Center Cxl

*1 Not shown on the tone screen.

*2 Rhythm Variation 1 in the case of Operation Type 2.
*3 Rhythm Variation 2 in the case of Operation Type 2.

Fingering Guide

■ FINGERED 1, FINGERED 2 Chords

с	
Cm	
Cdim	
Caug *3	
C ^{♭5}	
Csus4 *3	
Csus2 *3	
C7	
Cm7 *3	
CM7	
CmM7	
Cdim7 *3	1 ,
CdimM7	
C7⁶5 *3	
Cm7 ^{♭5} *3	

CM7 ^{♭5}	•••
Caug7	
CaugM7	
C7sus4	
C6 *1 *3	
Cm6 *2 *3	
Cadd9	
Cmadd9	
C69 *3	•••
Cm69 *3	••

- *1 With FINGERED 2, interpreted as Am7.
- *2 With FINGERED 2, interpreted as Am7 b5 .
- *3 Inverted form not supported in some cases.
- *4 These fingerings are special fingerings for Digital Keyboard chord input, and so they are not suitable for normal keyboard play.

■ FINGERED ON BASS, FULL RANGE CHORD

In addition to the chords that can be fingered with FINGERED 1 and FINGERED 2, the chords below also are recognized.

$$\begin{array}{c} \frac{C^{\sharp}}{C} \cdot \frac{D}{C} \cdot \frac{F}{C} \cdot \frac{F^{\sharp}}{C} \cdot \frac{G}{C} \cdot \frac{A^{\flat}}{C} \cdot \frac{A}{C} \cdot \frac{B^{\flat}}{C} \cdot \frac{C^{\sharp}m}{C} \cdot \frac{Dm}{C} \cdot \frac{Fm}{C} \\ \frac{F^{\sharp}m}{C} \cdot \frac{Gm}{C} \cdot \frac{A^{\flat}m}{C} \cdot \frac{Am}{C} \cdot \frac{B^{\flat}m}{C} \cdot \frac{Bm}{C} \cdot \frac{C^{\sharp}dim}{C} \cdot \frac{Ddim}{C} \\ \frac{Fdim}{C} \cdot \frac{F^{\sharp}dim}{C} \cdot \frac{Gdim}{C} \cdot \frac{A^{\flat}dim}{C} \cdot \frac{Adim}{C} \cdot \frac{Bdim}{C} \cdot \frac{F7}{C} \cdot \frac{A^{\flat}7}{C} \\ \frac{Fm7}{C} \cdot \frac{FM7}{C} \cdot \frac{A^{\flat}M7}{C} \cdot \frac{F^{\sharp}m7^{\flat5}}{C} \cdot \frac{Gm7}{C} \cdot \frac{G7}{C} \cdot \frac{A^{\flat}add9}{C} \\ \end{array}$$

- With FINGERED ON BASS, the lowest note fingered is interpreted as the base note. Inverted forms are not supported.
- With FULL RANGE CHORD, when the lowest note fingered is a certain distance from the neighboring note, the chord is interpreted as a fraction chord.
- Unlike FINGERED 1, 2, and FINGERED ON BASS, FULL RANGE CHORD requires pressing of at least three keys to form a chord.

Chord Example List

*1	С	C‡∖(D _P)	D	(D [♯])/E [♭]	E	F
М						
m						
dim						
aug						
sus4						
sus2						
7						
m7						
M7						
m7 ^{₅5}						
7 ^{♭5}						
7sus4						
add9						
madd9						
mM7						
dim7						
69						
6						
m6						

*1 Root *2 Chord Type

• Since the chord input range is limited, this model may not support some of the chords shown above.

*1	F‡/(G♭)	G	(G [♯])/A [♭]	А	(A‡)/B♭	В
М						
m						
dim						
aug						
sus4						
sus2						
7						
m7						
M7						
m7 ^{₅5}						
7 ^{♭5}			•			
7sus4						
add9						
madd9						
mM7						
dim7						
69						
6						
m6						

*1 Root *2 Chord TypeSince the chord input range is limited, this model may not support some of the chords shown above.

MIDI Implementation Chart

Function		Transmitted	Recognized	Remarks	
Basic Channel	Default Changed	1 1 - 16	1 - 16 1 - 16		
Mode Default Messages Altered		Mode 3 X * * * * * * *	Mode 3 X * * * * * * *		
Note Number True voice		0 - 127 * * * * * * *	0 - 127 0 - 127 *1		
Velocity Note ON Note OFF		O 9nH v = 1 - 127 X 8nH v = 64	O 9nH v = 1 - 127 X 9nH v = 0, 8nH v =**	**: no relation	
After Touch	Key's Ch's	X X	X O		
Pitch Bende	r	х	0		
0 1 5 6,38 70 10 11 4 65 66 67 Control 67 Change 72 73 74 76 77 76 76 77 74 76 93 93 93 93 94 00,101		0 x x x x x x x x x x x x x		Bank select Modulation Portamento Time Data entry LSB/MSB Volume Pan Evolume Portamento Switch Soft pedal Filter resonance Attack time Attack time Brightness Vibrato rate Vibrato Regularita Vibrato Regularita Regularita Vibrato Regularita Regularita Vibrato Regularita Vibrato Regularita Vibrato Regularita Regularita Vibrato Regularita Regularita Vibrato Regularita Vibrato Regularita Regularita Vibrato Regularita Regularita Regularita Regularita Regularita Regularita Regularita Vibrato Regularita Re	
Program Change	True #	O * * * * * * *	O 0 - 127		
Exclusive		O *3	O *3		
System Common	Song Pos Song Sel Tune	x x x	x x x		
System Real Time	Clock Commands	X X	x x		
Aux Messages	All sound off Reset all controller Local ON/OFF All notes OFF Active Sense System Reset	x x x x x x x	0 0 X 0 0 X		
Remarks			effect setting. d system exclusive message: /global/en/emi/manual/LK-S4		
	INI ON, POLY INI OFF, POLY	Mode 2 : OMNI ON, MONO Mode 4 : OMNI OFF, MONO		O : Ye X : N	



CASIO COMPUTER CO., LTD. 6-2, Hon-machi 1-chome Shibuya-ku, Tokyo 151-8543, Japan

MA2104-A © 2021 CASIO COMPUTER CO., LTD.