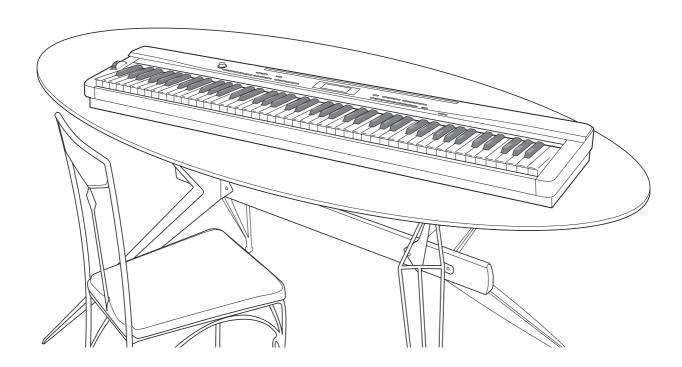
# Privia

# PX-330

# USER'S GUIDE GUÍA DEL USUARIO

Please keep all information for future reference. Guarde toda documentación para futuras consultas.



### **Safety Precautions**

Before trying to use the piano, be sure to read the separate "Safety Precautions".

### Precauciones de seguridad

Antes de intentar usar el piano, asegúrese de leer las "Precauciones de seguridad" separadas.



### IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 3. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

The power indicator being unlit does not mean the apparatus is completely disconnected from the MAINS.

When you need to have the apparatus completely disconnected from the MAINS, you must unplug the power cord. For that purpose, locate the apparatus in a way that secures easy access to the power cord.

### **Declaration of Conformity**

Model Number: PX-330

Trade Name: CASIO COMPUTER CO., LTD. Responsible party: CASIO AMERICA, INC.

Address: 570 MT. PLEASANT AVENUE, DOVER, NEW JERSEY 07801

Telephone number: 973-361-5400

This device complies with Part 15 of the FCC Rules, Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that

may cause undesired operation.

### NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **FCC WARNING**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### Important!

Please note the following important information before using this product.

- Before using the AD-A12150LW Adaptor to power the product, be sure to check the AC Adaptor for any damage first. Carefully check the power cord for breakage, cuts, exposed wire and other serious damage. Never let children use an AC adaptor that is seriously damaged.
- The product is not intended for children under 3 years.
- Use only the CASIO AD-A12150LW adaptor.
- The AC adaptor is not a toy.
- Be sure to disconnect the AC adaptor before cleaning the product.



This mark applies in EU countries only.

( (

Manufacturer:
CASIO COMPUTER CO.,LTD.

6-2, Hon-machi 1-chome, Shibuya-ku, Tokyo 151-8543, Japan

Responsible within the European Union: CASIO EUROPE GmbH Casio-Platz 1, 22848 Norderstedt, Germany

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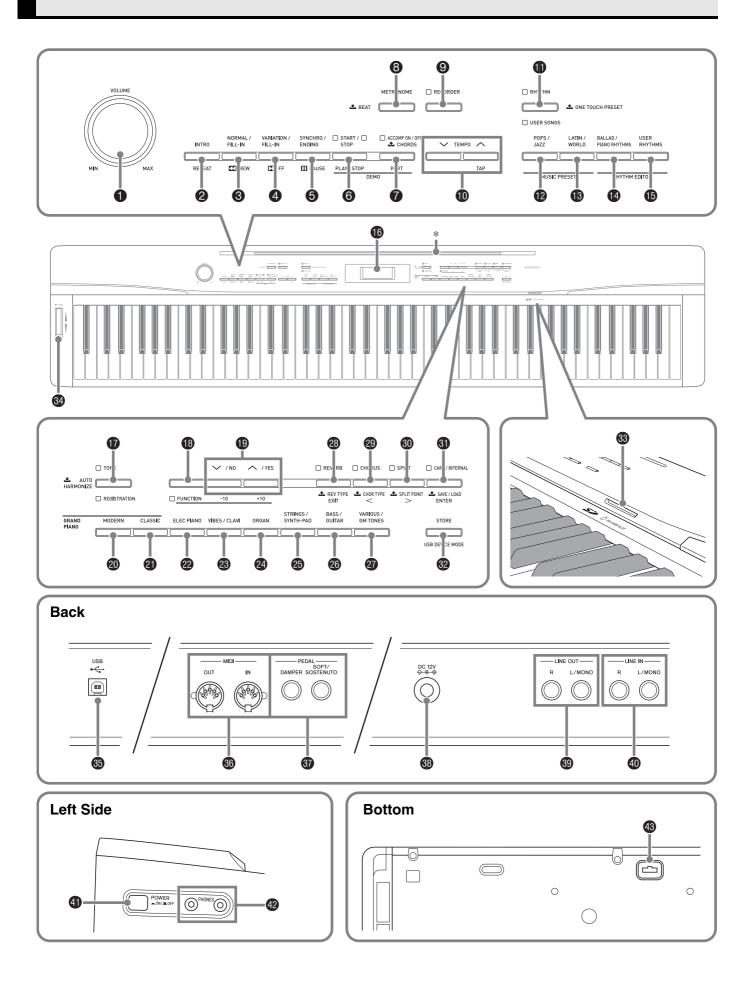
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## MIDI Implementation Chart

Company and product names used in this manual may be registered trademarks of others.

# **General Guide**

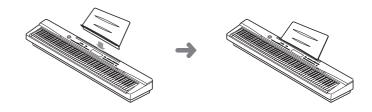


- This manual uses the numbers and names below to refer to buttons and controllers.
- VOLUME controller
- **A INTRO/REPEAT** button
- **③ NORMAL/FILL-IN, ◀◀REW** button
- **4** VARIATION/FILL-IN, ▶▶FF button
- **3** SYNCHRO/ENDING, PAUSE button
- **6** START/STOP, PLAY/STOP button
- **ACCOMP ON/OFF, PART** button
- METRONOME button
- RECORDER button
- **1D TEMPO** buttons
- **(1)** RHYTHM, USER SONGS button
- POPS/JAZZ, MUSIC PRESET button
- (B) LATIN/WORLD, MUSIC PRESET button
- **®** BALLAD/PIANO RHYTHMS, RHYTHM EDITOR button
- (B) USER RHYTHMS, RHYTHM EDITOR button
- Display
- **TONE, REGISTRATION** button
- **13 FUNCTION** button
- ♠ ✓/NO, ✓/YES buttons
- GRAND PIANO (MODERN) button
- @ GRAND PIANO (CLASSIC) button
- **ELEC PIANO** button

- VIBES/CLAVI button
- ORGAN button
- **3 STRINGS/SYNTH-PAD** button
- BASS/GUITAR button
- VARIOUS/GM TONES button
- REVERB, REV TYPE, EXIT button
- ⊕ CHORUS, CHOR TYPE, 
   ← button
- SPLIT, SPLIT POINT, ➤ button
- **3** CARD/INTERNAL, SAVE/LOAD, ENTER button
- **STORE, USB DEVICE MODE** button
- **® SD CARD SLOT**
- **② PITCH BEND** wheel
- **69 USB** port
- **69 MIDI OUT/IN terminals**
- **O DAMPER, SOFT/SOSTENUTO PEDAL** jacks
- O DC 12V terminal
- S LINE OUT R, L/MONO jacks
- 40 LINE IN R, L/MONO jacks
- 4 POWER button
- PHONES jacks
- Pedal connector

### \* Installing the Music Stand

Insert the bottom of the music stand into the groove on the top of the Digital Piano's console.



# Saving Settings and Using Panel Lock

Your Digital Piano lets you save its current settings, and lock its buttons to protect against operation errors. For details, see "Setting Backup" (page E-43) and "Panel Lock" (page E-43).

# **Returning the Digital Piano to Its Factory Default Settings**

Perform the following procedure when you want to return the Digital Piano's stored data and settings to their initial factory defaults.

- 1. Turn off the Digital Piano.
- While holding down both the (TONE) and (FUNCTION) buttons, press the (POWER) button.

The Digital Piano will turn on and initialize its internal system. You will be able to use the Digital Piano in a short while.



• See "Turning on the Digital Piano and Playing Something" (page E-9) for information about turning digital power on and off.

# **Power Outlet**

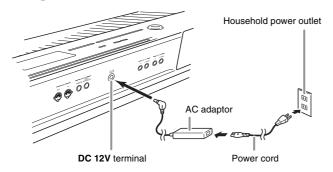
Your Digital Piano runs on standard household power. Be sure to turn off power whenever you are not using the Digital Piano.

### **Using an AC Adaptor**

Use only the AC adaptor (JEITA Standard, with unified polarity plug) that comes with this Digital Piano. Use of a different type of AC adaptor can cause malfunction of the Digital Piano.

### Specified AC Adaptor: AD-A12150LW

• Use the supplied power cord to connect the AC adaptor as shown in the illustration below.



Note the following important precautions to avoid damage to the power cord.

### **During Use**

- Never pull on the cord with excessive force.
- Never repeatedly pull on the cord.
- Never twist the cord at the base of the plug or connector.

### **During Movement**

• Before moving the Digital Piano, be sure to unplug the AC adaptor from the power outlet.

### **During Storage**

• Loop and bundle the power cord, but never wind it around the AC adaptor.

### MPORTANT!

- Never connect the AC adaptor (JEITA Standard, with unified polarity plug) that comes with this Digital Piano to any other device besides this piano. Doing so creates the risk of malfunction.
- Make sure the Digital Piano is turned off before plugging in or unplugging the AC adaptor.
- The AC adaptor will become warm to the touch after very long use. This is normal and does not indicate malfunction.

E-5

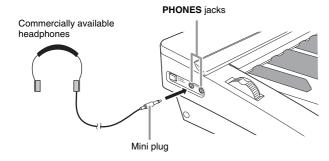
# **Connections**

### **Connecting Headphones**

### MPORTANT!

- Before connecting headphones, be sure to use the Digital Piano's VOLUME controller to turn the volume down to a low level. After connecting, you can adjust the volume to the level you want.
- The Digital Piano automatically adjusts sound output to optimize for headphones (when headphones are connected) or the built-in speakers (when headphones are not connected).

### Left Side



Connect commercially available headphones to the **PHONES** jacks. Connecting headphones to either of the **PHONES** jacks cuts off output to the speakers, which means you can practice even late at night without bothering others. To protect your hearing, make sure that you do not set the volume level too high when using headphones.

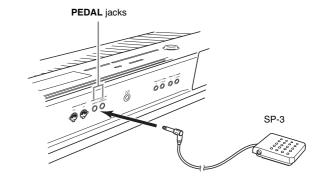
### **Connecting a Pedal**

The back of the Digital Piano has two pedal jacks, one for a damper pedal and one for a soft/sostenuto pedal.

### To connect to the pedal jack

Depending on the type of operation you want the pedal (SP-3) to perform, connect the pedal's cable either to the Digital Piano's **DAMPER PEDAL** jack or **SOFT/SOSTENUTO PEDAL** jack. If you want to use both operations (jacks) at the same time, you need to purchase another optionally available pedal.

### **Back**



### NOTE

 You can connect a pedal to the SOFT/SOSTENUTO PEDAL jack and apply either a soft or sostenuto effect to the notes you play. For details, see "Soft/ Sostenuto Pedal Jack Setting" (page E-43).

### **Pedal Functions**

### • Damper Pedal

Pressing the damper pedal while playing will cause the notes you play to reverberate for a very long time.

• Whenever a piano tone is selected, pressing this pedal will activate the Digital Piano's Acoustic Resonance effect, which causes notes to resonate in the same way they do when the damper pedal on an acoustic piano is pressed. For details, see "Acoustic Resonance" (page E-41).

### • Soft Pedal

Pressing this pedal suppresses notes played on the keyboard after the pedal was pressed, and makes them sound softer.

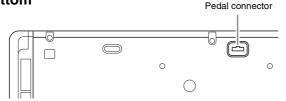
### • Sostenuto Pedal

Only the notes that are played while this pedal are depressed are sustained until the pedal is released.

### **Pedal Connector**

You can connect the optionally available 3-Pedal Unit (SP-32) to the pedal connector on the bottom of the Digital Piano. You can then use the pedals for expression that is similar to that available on an acoustic piano.

### **Bottom**



### NOTE

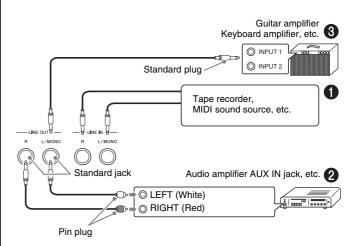
- The SP-32 Pedal Unit supports half-pedal operation (pressing the pedal part way). You can adjust the amount of the effect is applied when the damper pedal is pressed part way. For details, see "Half Pedal Effect" (page E-43).
- The optionally available CS-67P special stand is required in order to use the SP-32 Pedal Unit.

# **Connecting Audio Equipment** or an Amplifier

You can connect audio equipment or a music amplifier to the Digital Piano and then play through external speakers for more powerful volume and better sound quality.

### MPORTANT!

- The Digital Piano automatically adjusts sound output to optimize for headphone output (when headphones are connected) or built-in speaker output (when headphones are not connected). This also will cause a change in the output quality from the Digital Piano's LINE OUT R and L/MONO jacks.
- Whenever connecting a device to the Digital Piano, first use the VOLUME controller to set the volume to a low level. After connecting, you can adjust the volume to the level you want.
- Whenever you connect any device to the Digital Piano, be sure to read the user documentation that comes with the device.



# Playing Output from External Equipment through the Piano's Speakers •

Use commercially available cables to connect the external audio equipment to the piano's **LINE IN** jacks as shown in Figure **1**.

LINE IN R jack input sounds through the piano's right speaker, while LINE IN L/MONO jack input sounds through the left speaker. Connecting to the LINE IN L/MONO jack only causes the same output to be produced from both speakers. It is up to you to purchase connecting cables that are compatible with the equipment you are connecting.

### Connecting to Audio Equipment @

Use commercially available cables to connect the external audio equipment to the piano's LINE OUT jacks as shown in Figure ②. LINE OUT R jack output is right channel sound, while LINE OUT L/MONO jack output is left channel sound. It is up to you to purchase connecting cables like the ones shown in the illustration for connection of audio equipment. Normally in this configuration you must set the audio equipment's input selector to the setting that specifies the terminal (such as AUX IN) to which the piano is connected. Use the piano's VOLUME controller to adjust the volume level.

### 

Use commercially available cables to connect the amplifier to the piano's LINE OUT jacks as shown in Figure ③. LINE OUT R jack output is right channel sound, while LINE OUT L/MONO jack output is left channel sound. Connecting to the LINE OUT L/ MONO jack only outputs a mixture of both channels. It is up to you to purchase connecting cable like the one shown in the illustration for connection of the amplifier. Use the piano's VOLUME controller to adjust the volume level.

# Bundled and Optional Accessories

Use only accessories that are specified for use with this Digital Piano.

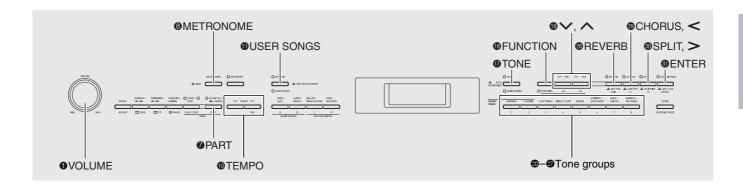
Use of unauthorized accessories creates the risk of fire, electric shock, and personal injury.



 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 at the following URL.

http://world.casio.com/

# **Using Built-in Tones**



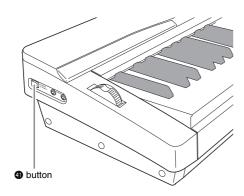
# **Turning on the Digital Piano** and Playing Something

Press the 4 (POWER) button.

This turns on power.

• To turn off the Digital Piano, press the **4** button again.

### Left Side



2. After a short while, the display screen should appear as shown below, which indicates that the Digital Piano is ready to be played.

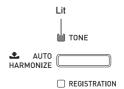


- 3. Use the (VOLUME) controller to adjust the volume level.
- 4. Play something on the keyboard.

### **Selecting a Tone**

Your Digital Piano has 250 tones, divided into eight groups.

- For more information, see the "Tone List" (page A-1).
- The Digital Piano has built-in demonstration tunes that highlight the different characteristics of tones. For more information, see "Playing Tone Demo Songs" (page E-24).
- 1. Press the (TONE) button so its upper lamp is lit
  - Each press of the button toggles between the upper and lower lamps.



### ☑ IMPORTANT!

- Continuing on to the next step while the REGISTRATION lamp is lit will perform a registration recall operation (page E-32), which will change the setup of the Digital Piano. Make sure that the TONE lamp is lit before you advance to the next step.
- 2. Use the "Tone List" (page A-1) to look up the group and the number of the tone you want to select.

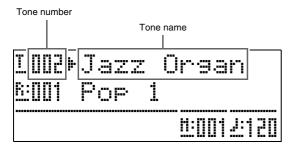
3. Use the to to (tone groups) buttons to select the group you want.

Example: To select the ORGAN group



**4**■ Use the **()** (**\( \sigma**, **\( \sigma \)**) buttons to select the tone you want.

Example: To select "002 Jazz Organ"



### NOTE

- Pressing and at the same time will jump to tone 001 of the currently selected group. Holding down either button changes the tone number at high speed.
- See page E-40 for more information about scrolling.

### **Layering Two Tones**

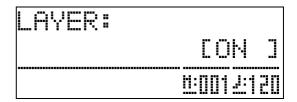
You can layer two different tones so they play at the same time when you press a keyboard key.

- The first tone you select is called the "main tone," while the second tone is called the "layered tone."
- 1. Select the main tone.

Example: To select MELLOW PIANO in the CLASSIC group, press the ② (CLASSIC) button and then use the ⑤ (✓, ♠) buttons to select "002 Mellow Piano".

2. Hold down the button of the group that contains the tone you want to select as the layered tone until "LAYER: ON" appears on the display as shown below for a few moments.

This will layer the tones currently selected in the two groups.



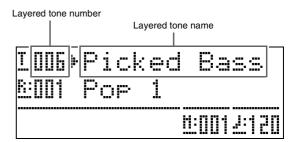
The button you held down in step 2 will light to indicate that it is selected.

Example: When BASS/GUITAR group is selected



3. Use the **()** (**√**, **∧**) buttons to select the tone you want in the group you selected in step 2.

Example: When "006 Picked Bass" is selected



**4.** To unlayer the tones and return the keyboard to a single tone, press any one of the tone group buttons.

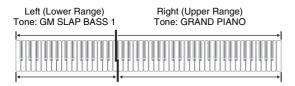


• You can adjust the balance between the main tone and layered tone. For details, see "Layered Tone Volume (Layer Balance)" (page E-41).

# **Splitting the Keyboard between Two Tones**

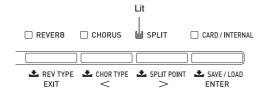
You can split the keyboard so the left side (lower range) plays one tone and the right side (upper range) plays a different tone.

Example: To split the keyboard between the GM SLAP BASS 1 tone on the left (lower range) and the GRAND PIANO tone on the right (upper range).



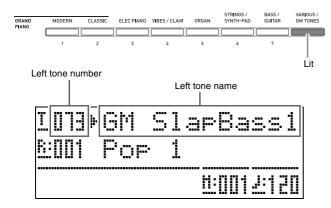
1. Press the @ (SPLIT) button.

This causes the SPLIT lamp to light, indicating that the keyboard is split between two tones.



2. Select the tone you want to assign to the left side (lower range) of the keyboard.

Example: To select GM SLAP BASS 1 in the VARIOUS/GM TONES group, press the (VARIOUS/GM TONES) button and then use the (VARIOUS/N) buttons to select "073 GM SlapBass1".



3. To unsplit the keyboard and return it to a single tone, press the (SPLIT) button.

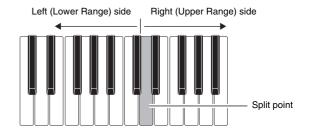
The SPLIT lamp will go out, indicating that the keyboard is no longer split.



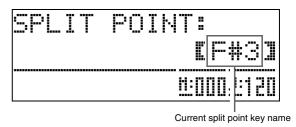
• If the keyboard is set up with layered tones (page E-10) when you perform the above split operation, the layered tones will play on the right (upper range) side of the keyboard.

### **Moving the Keyboard Split Point**

You can use the procedure below to specify the location on the keyboard where it splits between the left side and the right side. That location is called the "split point".



1 Hold down the (SPLIT) button until the split point setting screen appears on the display as shown below.



Press the keyboard key where you want to specify as the leftmost key of the right (upper range) tone.

This specifies the split point.

3. Press the (SPLIT) button.

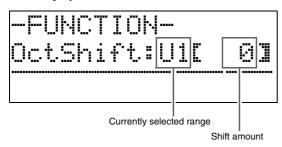
This exits the split point screen.

### **Using Octave Shift**

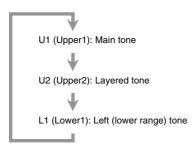
After you split the keyboard (page E-11), you may find out that the lower range notes on the left are too low or that the upper range notes on the right are too high. You can use octave shift to shift the octaves of the upper range and lower range upwards or downwards in octave units.

1. While holding down the (B) (FUNCTION) button, press the (FUNCTION) button.

This displays the octave shift screen.



- 2. Use the (PART) button to select the range whose octave you want to change.
  - Each press of **7** (**PART**) cycles through the ranges below.



- **3** Use the **()** (**\( \sigma**, **\( \sigma \)**) buttons to shift the octave of the currently selected range.
  - You can shift the octave within the range of –2 to 0 to 2.
- 4. Press the (FUNCTION) button.

This exits the octave shift screen.

### NOTE

• Octave shift also can be performed as described for "Octave Shift" (page E-41).

# Adjusting the Brilliance of a Tone

1. Press the ( (FUNCTION) button.

The FUNCTION lamp will light and the function screen will appear on the display.



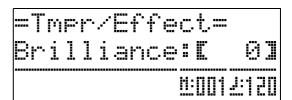
2. Use the ((>) and ((<)) buttons to select the Tmpr/Effect screen.



3. Press the **(ENTER)** button.

This will display a screen for selecting settings in the Tmpr/Effect group.

**4.** Use the **③** (**>**) or **④** (**<**) button to select the brilliance screen shown below.



- 5. Use the ( √, ∧) buttons to adjust the brilliance of the currently selected tone. You can adjust brilliance in the range of –3 to 0 to 3.
  - $\checkmark$ : Mellower and softer
  - ↑: Brighter and harder
- 6. Press the (FUNCTION) button.

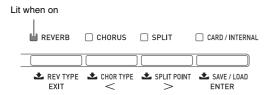
This will exit the brilliance screen and cause the FUNCTION lamp to go out.



• See "Other Settings" (page E-40) for details about using the (FUNCTION) button.

### **Adding Reverb to the Tone**

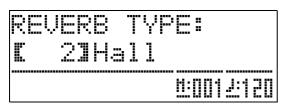
Press the (REVERB) button to toggle reverb on and off.



### **Selecting the Reverb Type**

You can select from among the following four types of reverb.

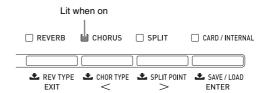
- 1: Room
- 2: Hall
- 3: Large Hall
- 4: Stadium
- 1. Hold down the (REVERB) button until the reverb type selection screen shown below appears on the display.



- 2. Use the ⊕ (∨, ∧) buttons to select the reverb type you want.
- 3. Press the (REVERB) button to exit the reverb type screen.

# Adding the Chorus Effect to the Tone

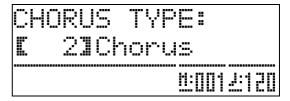
Press the (CHORUS) button to toggle chorus (which adds depth to a tone) on and off.



### **Selecting the Chorus Type**

You can select from among the following four chorus types.

- 1: LightChorus
- 2: Chorus
- 3: Deep Chorus
- 4: Flanger
- 1 Hold down the (CHORUS) button until the chorus type selection screen shown below appears on the display.

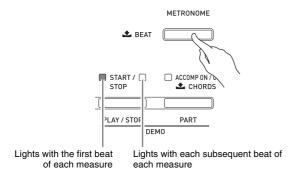


- **3.** Press the **(CHORUS)** button to exit the chorus type screen.

### **Using the Metronome**

 $oldsymbol{1}_{oldsymbol{ \bullet}}$  Press the  $oldsymbol{ \odot }$  (METRONOME) button.

This will start the metronome.

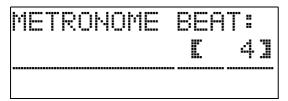


2. Press the **③** (**METRONOME**) button again to stop the metronome.

### **Changing the Beats Per Measure**

You can specify from two to six beats per measure for the metronome. After you do, a chime will sound at the beginning of each measure. Specifying 0 for this setting will sound a straight beat, without a chime. This setting lets you practice with a steady beat.

1 Hold down the (METRONOME) button until the number of beats per measure screen shown below appears on the display.



- **3.** Press the **3** (**METRONOME**) button to exit the number of beats per measure screen.

### **Changing the Tempo Setting**

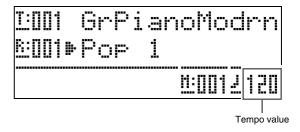
There are two different methods you can use to change the tempo setting: by pressing  $\wedge$  (faster) and  $\vee$  (slower) buttons or by tapping a beat with a button.

# ■ To adjust the tempo using and buttons

 Use the **(TEMPO ∨**, ∧) buttons to adjust the tempo setting.

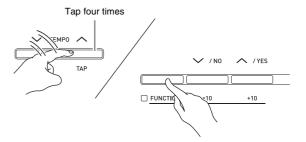
Each press of a button increases or decreases the beats per minute value by one.

- Holding down either button changes the value at high speed.
- You can specify a tempo value in the range of 20 to 255.



### ■ To adjust the tempo by tapping a beat

- While holding down the (B) (FUNCTION) button, tap the (TEMPO) button four times in time with the beat you want to specify.
  - The tempo setting will change in accordance with the timing of your tapping.
  - After you use this method to specify the approximate tempo, you can then use the procedure under "To adjust the tempo using and buttons" to adjust the setting to a more exact value.

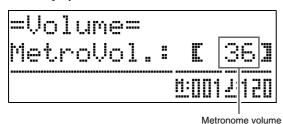


### **Adjusting the Metronome Volume**

You can use the following procedure to adjust the volume level of the metronome, without affecting the volume of Digital Piano output.

1 While holding down the (FUNCTION) button, press the (METRONOME) button.

This displays the metronome volume screen.



- 2. Use the ⊕ ( , ∧ ) buttons to adjust the metronome volume.
- **3.** Press the **1** (**FUNCTION**) button.

  This will exit the metronome volume screen and cause the FUNCTION lamp to go out.



 You also can use the procedure under "Metronome Volume" (page E-41) to adjust the metronome volume.

### **Using the Pitch Bend Wheel**

You can use the pitch bend wheel to slide the pitch of notes smoothly upwards and downwards. This capability makes it possible to reproduce saxophone and electric guitar choking effects.

### **Adding a Pitch Bend Effect**

While playing a note on the keyboard, rotate the pitch bend wheel on the left of the keyboard upwards or downwards.



The amount the note bends depends on how much you rotate the pitch bend wheel.

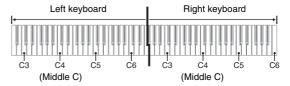
• Do not have the pitch bend wheel rotated as you turn on the Digital Piano.

### NOTE

 You also can configure pitch bend wheel operation by specifying the amount of pitch change at maximum rotation in either direction. See "Pitch Bend Range" (page E-43) for more information.

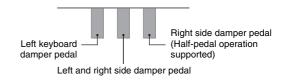
### **Playing a Duet**

You can use the Duet Mode to split the Digital Piano's keyboard in the center so two people can play a duet. This makes it possible to configure the keyboard so, for example, the teacher can play on the left and the student can follow along on the right. Or one person can play the left hand part on the left, while another plays the right hand part on the right.



### **Pedal Operation when Playing a Duet**

• Optional SP-32 Pedal Unit



### • Optional SP-3 Pedal Unit

To use the SP-3 Pedal Unit as the right keyboard damper pedal, connect it to the (DAMPER PEDAL) torminal

• Half-pedal operation is not supported in this case.

To use the SP-3 Pedal Unit as the left keyboard (initial default setting) or right keyboard damper pedal (selectable), connect it to the **(SOFT/SOSTENUTO PEDAL)** terminal.

• For information about how to select left or right keyboard control with the SP-3 Pedal Unit, see "Soft/Sostenuto Pedal Jack Setting" (page E-43).

# **Configuring the Digital Piano for Duet Play**

Press the (USER SONGS) button so its lower lamp is lit.



- To practice with songs stored on a memory card, press the ③ (CARD/INTERNAL) button so its lamp is lit in place of the ① (USER SONGS) button.
- 2. While holding down the (FUNCTION) button, press the (SPLIT) button.

This causes the Duet Mode on/off screen to appear.

 The keyboard keys are disabled while this screen is displayed.



**3.** Press the ( ) button to turn on the Duet Mode.

This will cause the **(SPLIT)** button lamp to flash.

4. Press the (FUNCTION) button.

This exits the Duet mode on/off screen and configures the Digital Piano's keyboard for duet play.

5. To turn off the Duet Mode, press the (SPLIT) button so the SPLIT lamp goes out.

### NOTE

• You also can use the procedure under "Duet Mode" (page E-41) to turn the Duet Mode on or off.

# Changing the Octave of a Duet Mode Keyboard

You can use the following procedure to change the octave of the left and right Duet Mode keyboards.

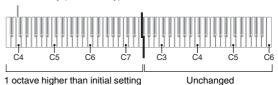
1. While holding down the ( (FUNCTION) button, press the ( (SPLIT) button.

This displays the Duet Mode on/off screen shown in step 2 under "Configuring the Digital Piano for Duet Play" (page E-16). If the Duet Mode is currently turned off, press the ( ) button to turn it on.

- 2. Of the four C keys in the left keyboard, press the one that you want to have located at middle C.
  - This will sound the note assigned to C4 and change the octave of the left keyboard.

Example: To change the configuration so the leftmost C key is middle C as shown below.

Leftmost C key (Pressed key)



- 3. You can use the same procedure as step 2 to select one of the C keys in the right keyboard to shift its octave as well.
- 4. Press the (FUNCTION) button.

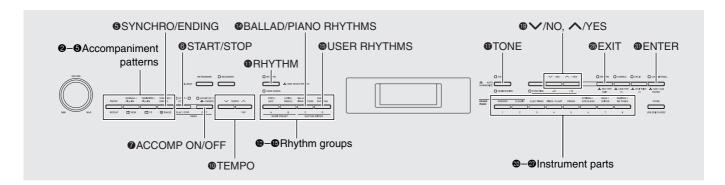
This exits the Duet Mode on/off screen and causes the (FUNCION) button lamp to go out.

The left and right keyboards will be configured according to your settings.



• Turning off the Duet Mode will clear your octave shift settings and return the keyboard to its initial default settings.

# **Using Auto Accompaniment**



With Auto Accompaniment, simply select the accompaniment rhythm you want and the matching accompaniment (drums, guitar, etc.) will play automatically when you play a chord with your left hand. It's like having your own personal backup group along with you wherever you go.

This Digital Piano has 180 built-in Auto Accompaniment patterns, which are divided into three groups. You can edit built-in rhythms to create your own original rhythms (called "user rhythms"), which you can save in a fourth group. For more information, see the "Rhythm List" (page A-4).

# Playing an Auto Accompaniment

1. Press the (RHYTHM) button so its upper lamp is lit.

This enables Auto Accompaniment.

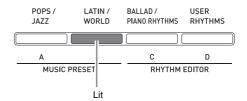
• Each press of the button toggles between the RHYTHM and USER SONGS lamps.



2. Use the "Rhythm List" (page A-4) to look up the group and the number of the rhythm you want to select.

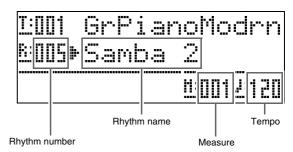
3. Use the to to (rhythm groups) buttons to select the group you want.

Example: When the LATIN/WORLD group is selected



**4.** Use the **()** (**√**, **∧**) buttons to select the rhythm you want.

Example: When "005 Samba 2" is selected



- - This is the same as metronome tempo adjustment (page E-14).
  - To return the rhythm to its standard tempo setting, press the **(TEMPO )** buttons at the same time.

# Press the (ACCOMP ON/OFF) button so its lamp is lit.

This turns ACCOMP on, so all accompaniment parts sound.

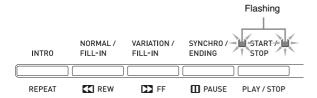
- Turning ACCOMP off so the ACCOMP lamp is unlit causes only the percussion instrument parts to sound.
- Each press of the (ACCOMP ON/OFF) button toggles ACCOMP on and off.



### 7. Press the **6** (**SYNCHRO/ENDING**) button.

This puts Auto Accompaniment into "synchro standby". Playing a chord during synchro standby will cause Auto Accompaniment to start to play automatically.

 Pressing the ② (INTRO) button while Auto Accompaniment is in synchro standby will enter intro standby. Pressing the ④ (VARIATION) button will enter variation standby. For details about intro and variation patterns, see "Modifying Auto Accompaniment Patterns" (page E-20).



# 8. Play the chord you want on the chord keyboard (left keyboard keys).

Auto Accompaniment will start playing when you play the chord.

• To start percussion part play without playing a chord, press the **6** (START/STOP) button.

Example: To play a C chord



- Play other chords with left hand as you play the melody with your right hand.
  - You can use "CASIO Chord" or other simplified chord fingering modes to play chords. For details, see "Selecting a Chord Fingering Mode" in the following section.
  - You can use the **(NORMAL)** and **4** (**VARIATION**) buttons to modify accompaniment patterns. For details, see "Modifying Auto Accompaniment Patterns" (page E-20).
- 10. When you are finished, press the (START/STOP) button again to stop Auto Accompaniment.
  - Pressing the (SYNCHRO/ENDING) button instead of the (START/STOP) button will play an ending pattern before stopping Auto Accompaniment play. For details about ending patterns, see "Modifying Auto Accompaniment Patterns" (page E-20).

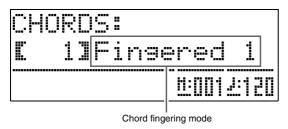


- You can use the following procedure to adjust the volume level of the Auto Accompaniment, without affecting the volume of Digital Piano output. For details, see "Auto Accompaniment Volume" (page E-41).
- You can change the size of the chord keyboard by using the split feature to move the split point (page E-11). The keyboard keys to the left of the split point make up the chord keyboard.

### **Selecting a Chord Fingering Mode**

You can select from among the following five chord fingering modes.

- 1: Fingered 1
- 2: Fingered 2
- 3: Fingered 3
- 4: CASIO Chord
- 5: Full Range
- 1 Hold down the (ACCOMP ON/OFF) button until the chord type selection screen appears on the display.



- 2. Use the **()** (**√**, **∧**) buttons to select the chord fingering mode you want.
- **3.** Press the **(ACCOMP ON/OFF)** button. This exits the chord fingering screen.

### **■** Fingered 1, 2, 3

With these three chord fingering modes, you play chords on the chord keyboard using their normal chord fingerings. Some chord forms are abbreviated, and can be fingered with one or two keys. For information about the types of chords you can finger and their fingerings, see the "Fingering Guide" (page A-8).



- 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 3: Unlike Fingered 1, this mode allows input of fraction chords with the lowest keyboard note as the bass note.

### **■ CASIO CHORD**

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

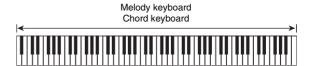


Chord Type	Example
Major Chords Press one key, whose note corresponds to the chord name.  • To play C Major, press any C key in the chord keyboard. The octave of the note does not matter.	C (C Major)  Note name
Minor Chords Press the chord keyboard key that corresponds to the major chord, while also pressing one other chord keyboard key to the right.	Cm (C minor)
Seventh Chords Press the chord keyboard key that corresponds to the major chord, while also pressing two other chord keyboard keys to the right.	C7 (C seventh)
Minor Seventh Chords Press the chord keyboard key that corresponds to the major chord, while also pressing three other chord keyboard keys to the right.	Cm7 (C minor seventh)

When pressing more than one chord keyboard key, makes no difference whether the additional keys are white or black.

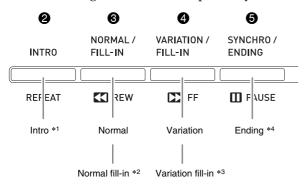
### **■ FULL RANGE CHORD**

With this chord fingering mode, you can use the full range of the keyboard to play chords and the melody. For information about the types of chords you can finger and their fingerings, see the "Fingering Guide" (page A-8).



### **Modifying Auto Accompaniment Patterns**

There are six different Auto Accompaniment patterns, shown below. You can switch between patterns during accompaniment play and even modify patterns. Use buttons ② through ⑤ to select the pattern you want.



- \*1 Press at the beginning of a song.
  Accompaniment play proceeds with the normal pattern after the intro pattern is complete. Pressing the **②** (VARIATION/FILL-IN) button before pressing this button will proceed with the variation pattern after the intro pattern is complete.
- \*2 Press while a normal pattern is playing to insert a fill-in pattern.
- \*3 Press while a variation pattern is playing to insert a fill-in variation pattern.
- \*4 Press at the end of a song.

  This will play an ending pattern and then stop Auto Accompaniment.

### **Using One-Touch Presets**

One-Touch Preset gives you one-touch access to tone and tempo settings that go well with the currently selected Auto Accompaniment rhythm pattern.

1. Hold down the (RHYTHM) button for at least two seconds.

This will configure tone, tempo, and other settings to match the currently selected rhythm pattern. At this time, Auto Accompaniment play also will go into synchro standby, which means that Auto Accompaniment will start to play automatically when you finger a chord.

2. Play a chord on the keyboard.

This will start Auto Accompaniment play.



• One-Touch Presets are not supported for user rhythms (001 through 010 of the USER RHYTHMS group).

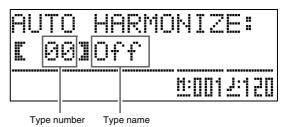
### **Using Auto Harmonize**

Auto Harmonize lets you add harmony to melody notes you play with your right hand. You can select any one of 12 Auto Harmonize settings.

1. Press the (TONE) button so its lamp is lit.



2. Hold down the **(TONE)** button until the auto harmonize screen appears on the display.



3. Use the **()** (**√**, **∧**) buttons to select the Auto Harmonize type you want.

Type Number	Type Name	Description	
00	Off	Turns off Auto Harmonize.	
01	Duet 1	Adds close (separated by two to four degrees) one-note harmony below the melody note.	
02 Duet 2		Adds open (separated by more than 4 to 6 degrees) 1-note harmony below the melody note.	
03	Country	Adds country style harmony.	
04	Octave	Adds the note from the next lower octave.	
05	5th	Adds the fifth degree note.	
06	3-Way Open	Adds 2-note open harmony, for a total of three notes.	
07	3-Way Close	Adds 2-note close harmony, for a total of three notes.	
08	Strings	Adds harmony that is optimal for strings.	
09	4-Way Open	Adds 3-note open harmony, for a total of four notes.	
10	4-Way Close	Adds 3-note close harmony, for a total of four notes.	
11	Block	Adds block chord notes.	
12	Big Band	Adds big band style harmony.	

4. Press the (TONE) button.

This will exit the auto harmonize screen.

5. While playing chords, play the melody on the keyboard.

Harmony will be added to your melody notes based on the chords you play.

# **Creating Your Own Original Rhythms**

You can use rhythm editing to modify a built-in Auto Accompaniment rhythm to create an original "user rhythm" of your own. You can select a part (drum, bass, etc.) of a normal, intro, or other pattern (page E-20) and turn it on or off, adjust its volume level, and perform other operations.

- Select the number of the Auto Accompaniment rhythm you want to edit.
- 2. At the same time, press the (BALLAD/PIANO RHYTHMS) and (BUSER RHYTHMS) buttons.

This displays the rhythm editor screen.

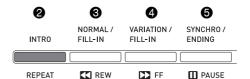


3. Use the accompaniment pattern buttons (2) through (3) to select the pattern (normal, intro, ending, etc.) you want to edit.

The button you press will light, indicating that the pattern is being edited.

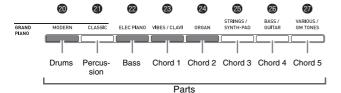
Each press of ③ (NORMAL/FILL-IN) toggles between NORMAL and FILL-IN, and each press of ④ (VARIATION/FILL-IN) toggles between VARIATION and FILL-IN. The applicable button flashes while the fill-in pattern is selected.

Example: When intro is selected



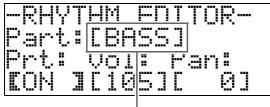
# Use the instrument part buttons ( through through through the select the part (drums, bass etc.) you want to edit.

The name of the part you select will appear on the display. Rhythm patterns are made up of the eight parts shown below.



 Button illumination does not change when you press the instrument part buttons (② through ③). Button illumination indicates whether there is accompaniment data corresponding to each part.

Example: When bass is selected



Instrument part name

### **5** Edit the selected part as desired.

The table below describes the parameters you can edit.

- Use the ② (<) and ③ (>) buttons to select a parameter, and the ④ (∨, ∧) buttons to change its setting. You also can use shortcut buttons (see table below) to select parameters.
- Pressing the **②** (**∨**, **∧**) buttons at the same time will return the currently selected parameter to its initial default setting.
- Pressing the (START/STOP) button during an edit operation will sound the accompaniment pattern with the edits you have made up to that point.
   Pressing the (ACCOMP ON/OFF) button will sound only the instrument part you are editing.

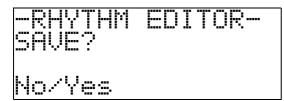
Procedure continues on page E-23.

Parameter	Description	Setting	Shortcut Button
Rhythm Select: Rhythm	Replaces the part (drum, bass, etc.) accompaniment data with that of the specified rhythm number. *1	001 to 190: Rhythm number *2 *3	•
Tone Select: Tone	Switches the part tone (instrument) to that of the specified tone number.	001 to 250: Tone Numbers *2 *4	<b>(3</b> )
Prt: Part on/ off	Toggles each part on or off.	OFF: Mutes the part. ON: Sounds the part.	
Vol: Volume level	Controls the volume level of each part.	000 to 127	13
Pan: Panning (position)	Controls whether the sound of the part can be heard from the left side or right side.	-64 to 0 to 63 *5	
Reverb: Reverb	Controls the level of the reverb effect (page E-13) applied to the part notes.	000 to 127	<b>a</b>
Chorus: Chorus	Controls the level of the chorus effect (page E-13) applied to the part notes.	000 to 127	

- \*1 Replacing part accompaniment data clears all edits to the currently selected accompaniment data made up to that point.
- \*2 Sequential numbers starting from 001, which is the first rhythm of the first group (POPS/JAZZ). See the "Tone List" (page A-1) and "Rhythm List" (page A-4) for information on the numbering system.
- \*3 In the case of the intro and ending, specifying a rhythm for one part (drum, bass, etc.) will cause the same rhythm to be specified automatically for all of the other parts of the pattern.
- \*4 Only drum set sounds (tone numbers 237 through 250) can be selected for drum parts and percussion parts. Drum set sounds cannot be selected for the bass and the chord 1 through chord 5 parts.
- \*5 A smaller value shifts leftward, while a larger value shifts rightward. A value of zero specifies center.

- 6. Repeat steps 3 through 5 to edit all of the accompaniment patterns and parts you want.
- 7 After editing is complete, adjust the tempo of the rhythm as desired.
  - The tempo you set here becomes the initial default tempo of the rhythm.
- 8. Press the @ (EXIT) button.

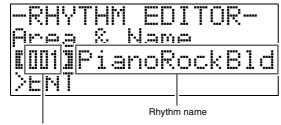
This causes a confirmation message to appear asking if you want to save your edits.



9. Press the (YES) button.

This displays a screen for specifying the user rhythm number and rhythm name.

• If you want to exit the editing operation without saving, press the (NO) button instead of the (YES) button.



Destination user rhythm number

- **10.** Decide on the user rhythm number where you want to save the rhythm and a rhythm name.
  - Use the ② (<) and ③ (>) buttons to move the cursor to the user rhythm number and rhythm name character you want to change. Use the ③ (∨, ∧) buttons to select the number or character you want.
  - The rhythm name characters you can select are shown below. To input a space, press both of the (➤ and ►) buttons at the same time.

!	11	#	\$	%	&	'	(	)	
*	+	,	-		/	0	1	2	3
4	5	6	7	8	9	:	;	<	=
>	?	@	Α	В	С	D	Е	F	G
Н		J	Κ	L	М	Ν	0	Ρ	Q
R	S	Т	U	V	W	Χ	Υ	Ζ	[
¥	]	٨	_	`	а	b	С	d	е
f	g	h	i	j	k		m	n	0
р	q	r	s	t	u	٧	W	Х	У
Z	{		}						

### 11. Press the (ENTER) button.

This saves the data.

• If the rhythm number where you are saving the data already has data saved to it, a message (Replace?) will appear on the display to confirm whether you want to replace the existing data with the new data.

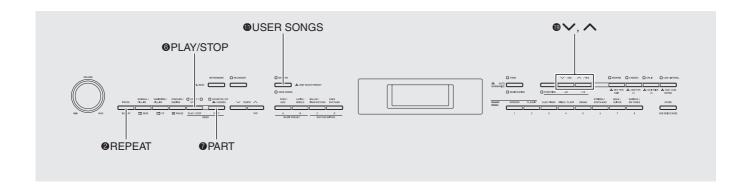
### MPORTANT!

 Saving user rhythm data to a user rhythm number that already has data will cause the existing data to be replaced by the new data.

### NOTE

• If the size of the accompaniment pattern or instrument part data is too large to be edited, a memory full message (Memory Full) will appear on the display. If that happens, select a different accompaniment pattern or instrument part for editing.

# **Playing Demo Songs**



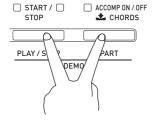
### **Playing Tone Demo Songs**

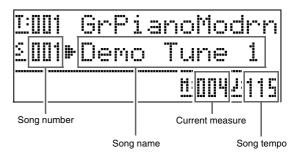
Your Digital Piano comes with eight built-in demo tunes, which demonstrate the characteristics of each of the eight tone groups.

No.	Tone Group Name	Tune Name
01	GRAND PIANO MODERN	Original
02	GRAND PIANO CLASSIC	Arabesque 1
03	ELEC PIANO	Original
04	VIBES/CLAVI	Original
05	ORGAN	Original
06	STRINGS/ SYNTH-PAD	Nessun Dorma [Turandot]
07	BASS/GUITAR	Original
08	VARIOUS/GM TONES	Original

# 1. While holding down the (PART) button, press the (PLAY/STOP) button.

This will start sequential playback of the demo songs, starting from song 1.





• Pressing a tone group button ( through ) while demo song playback is in progress will switch to the demo song of that group's tone. Also, you can scroll through songs manually with the ( , ^) buttons.

### 2. Press the (a) (PLAY/STOP) button.

This stops demo song playback. Playback of the demo songs will continue in an endless loop until you press the **(a)** (**PLAY/STOP**) button to stop it.



• Only the operations described above can be performed while demo song playback is in progress.

# Listening to Songs Loaded from an External Source

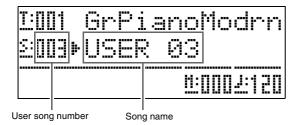
You can import song data from an SD memory card or computer as a user song, and use it for Auto Accompaniment or for practice.

- Load the song data you want to listen to one of the Digital Piano's user songs.
  - See "Loading Data from a Memory Card" (page E-47) and "Connecting to a Computer" (page E-51) for details about how to load data.
  - You also could play back data directly from a memory card without loading it into Digital Piano memory. For details, see "Playing Back a Song from a Memory Card" (page E-48).
- 2. Press the (USER SONGS) button so its lamp is lit.
  - Each press of the button toggles between the upper and lower lamps.



**3**■ Use the **()** (**\( \sigma**, **\( \sigma \)**) buttons to select the user song you want.

Example: When user song 003 is selected



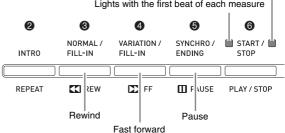
### 4. Press the 6 (PLAY/STOP) button.

This starts playback of the song.

- Press the 4 (FF) button to perform a fast forward operation or the 3 (REW) button for rewind.
   Pressing and releasing either button moves one measure, while holding down a button scrolls at high speed.
- Pressing the **6** (PAUSE) button pauses playback. Press again to resume song playback.

Lights with each subsequent beat of each measure

Lights with the first beat of each measure



### 5. Press the (PLAY/STOP) button again.

This stops song playback.

• Song playback also will stop automatically when the end of the song is reached. To configure the Digital Piano to loop song playback without stopping, turn on "Song Repeat" (page E-42).

### **Changing the Song Tempo**

You can change the song tempo using the same procedure that you use to adjust the metronome tempo. For more information, see "Changing the Tempo Setting" (page E-14).

# Playing on the Keyboard Using the Same Tone as the Song

1 Hold down the (USER SONGS) button for at least two seconds.

This will assign the same tone as the right hand part of the current song to the keyboard.



• You can use the procedure under "Practicing Either Hand's Part (Part Off)" (page E-26) to turn off the left hand part and play along on the keyboard using the left hand part tone.

### **Adjusting the Song Volume**

You can use the following procedure to adjust the volume level of the song's Auto Accompaniment, without affecting the volume of keyboard tone output. For details, see "Song Volume" (page E-41).

### **Practicing Either Hand's Part (Part Off)**

You can turn off the right hand part\*1 or left hand part\*2 of a song and play that part on the Digital Piano while the song plays back.

- \*1 Song data Channel 4 (fixed)
- \*2 Song data Channel 3 (fixed)
- 1 Press the (PART) button.

  This causes "L-[ON] R-[ON]" to appear on the display.
- 2. Use the **()** (**√**, **∧**) buttons to turn off the part you want.

Press  $(\checkmark)$  to toggle the left hand part or  $(\land)$  to toggle the right hand part on and off.

- **3.** Press the **7** (PART) button again. This exits the part on/off screen.
- 4. Hold down the (USER SONGS) button for at least two seconds.

This will assign the same tone as the hand that is turned off to the keyboard.

**5.** Press the **(PLAY/STOP)** button to start song playback.

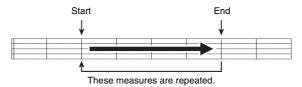
The part you turned off does not sound, so you can play it on the keyboard.

# Sounding a Count at the Beginning of a Song

You can configure the Digital Piano to sound a count before playback of a song starts, which helps to get the timing right when you are playing along on the keyboard. For details, see "Pre-count" (page E-42).

# Repeating Playback of a Specific Section (Repeat)

You can configure the Digital Piano to repeat the section of a song you want to practice. You could, for example, specify repeat play from measure 5 to measure 8.



- **1** Press the **6** (PLAY/STOP) button. This starts playback of the song.
- 2. When playback reaches the first measure of the section you want to repeat, press the ② (REPEAT) button.

This makes the measure the "start measure".

The ② (REPEAT) button lamp flashes at this time.

3. When playback reaches the last measure of the section you want to repeat, press the ② (REPEAT) button again.

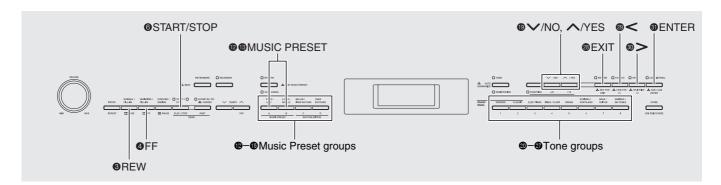
This makes the measure the "end measure". Repeat playback of the specified section starts as soon as you select the end measure.

The ② (REPEAT) button lamp is lit (not flashing) at this time.

4. Pressing ② (REPEAT) again returns to normal play.

This will cause the **②** (**REPEAT**) button lamp to go out.

### **Music Presets**



Music Presets provide you with one-touch tone, rhythm, chord, and other settings that are optimized for specific musical genres and songs.

In addition to built-in presets, you can create your own original Music Presets (user presets).

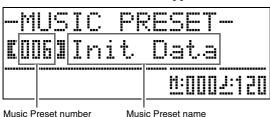
There are a total of 300 built-in Music Presets, which are divided into three groups (A, B, C). A fourth group (D) is provided for user presets.

• For more information, see the "Music Preset List" (page A-6).

### **Selecting a Music Preset**

1 Press **1** and **1** (**MUSIC PRESET**) at the same time.

This causes the **(ACCOMP ON/OFF)** lamp to flash and the Music Preset screen to appear.



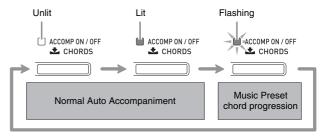
Use buttons to to (Music Preset group buttons) to select a group, and then use the ((\(\infty\), \(\sigma\)) buttons to select the Music Preset you want.

This will configure the Digital Piano with settings (tone, rhythm, etc.) of the selected Music Preset.

The following are the settings that are included in a Music Preset.

- Tones (main, layer, lower split) (page E-9)
- Layer balance (page E-10)
- Octave shift (page E-12)
- Reverb (page E-13)
- Chorus (page E-13)
- Rhythm (page E-21)
- Tempo (page E-20)
- Auto Harmonize (page E-20)

- 3. Press the (START/STOP) button to start Auto Accompaniment with the chord progression of the Music Preset. Play the melody on the keyboard.
  - The preset chord progression repeats until you stop it by pressing the **(3)** (START/STOP) button again.
  - Pressing the (ACCOMP ON/OFF) button so the ACCOMP ON/OFF lamp is lit (not flashing) or unlit will turn off the chord progression of the Music Preset and play the normal Auto Accompaniment pattern.
  - Each press of the **?** (ACCOMP ON/OFF) button cycles in the sequence shown below.



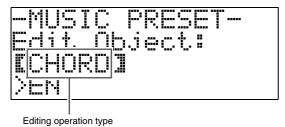
- You can use the following steps to change the rhythm after selecting a Music Preset.
- (1) Hold down the **(RHYTHM)** button until the displayed Music Preset number and name change to the rhythm number and name.
- (2) Use the 0 ( $\checkmark$ ,  $\land$ ) buttons to select the rhythm you want.
- (3) Hold down the **(RHYTHM)** button again until the rhythm number and name change back to the Music Preset number and name.
- To change the tone, use the ② through ③ (tone group) buttons to select the tone group and then use the ⑤ (✓, △) buttons to select a tone number.
- 4. To exit a Music Preset, press 
  and 
  (MUSIC PRESET) at the same time.

# **Creating an Original User Preset**

A Music Preset editor is provided to allow you to create your own original Music Presets (user presets). Up to 50 user presets can be stored in Music Preset Group D.

- Select the Music Preset you want to edit in order to create your user preset.
- 2. Change the tone number, rhythm number, and other settings of the Music Preset as you want.
  - The settings you configure here will be saved as a user Music Preset. See step 2 under "Selecting a Music Preset" (page E-27) for the settings you can configure and save for a user Music Preset.
- 3. Press the (BALLAD/PIANO RHYTHMS) and (S (USER RHYTHMS) buttons at the same time.

This displays a screen for selecting the type of editing operation you want to perform.



**4.** Edit the Music Preset parameters.

### 4-1. To edit the chord progression

Press the 1 ( $\checkmark$ ) down button to display "CHORD" and then press the 1 (ENTER) button to advance to the chord progression editing screen.

Next, perform the editing operation described under "To edit the chord progression" (page E-29). After you finish the editing operation, press the (EXIT) button to return to the screen for selecting the type of editing operation, above.

# **4-2. To edit Auto Accompaniment parameters** Press the **(9)** (**^**) up button to display

"Parameter" and then press the (ENTER) button to advance to the Auto
Accompaniment parameter editing screen.
Next, perform the editing operation described under "To edit Auto Accompaniment parameters" (page E-31). After you finish the editing operation, press the (EXIT) button to return to the screen for selecting the type of editing operation, above.

- After editing everything you want, press the(EXIT) button.
  - This will display a message asking if you want to save the user preset.
- 6. Press the (YES) button.

This displays a screen for selecting the Music Preset number and name for storing the edited data.

If you do not want to save the edited data, press the
 (NO) button in place of the (YES) button.



Music Preset number for data storage

7. Use the ( \( \sigma \), \( \sigma \)) buttons to select the Music Preset number where you want to store the edited data.

### 8. Enter a name for the preset.

Use the  $\mathfrak{B}$  ( $\lt$ ) and  $\mathfrak{B}$  ( $\gt$ ) buttons to move the cursor to the character you want to change and then use the  $\mathfrak{B}$  ( $\checkmark$ ,  $\land$ ) buttons to change the character. The following shows a table of available characters.

!	"	#	\$	%	&	'	(	)	
*	+	,	-		/	0	1	2	3
4	5	6	7	8	9	:	;	<	=
>	?	@	Α	В	С	D	Е	F	G
Н	-	J	Κ	L	М	N	0	Р	Q
R	S	Т	U	V	W	Χ	Υ	Ζ	[
¥	]	٨	_	,	а	b	С	a	е
f	g	h	i	j	k		m	n	0
р	q	r	s	t	u	٧	W	Х	У
z	{		}						

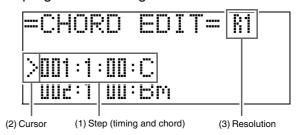
### 9. Press the ( (ENTER) button.

This saves the data.

• If the preset number where you are saving the data already has data saved to it, a message (Replace?) will appear on the display to confirm whether you want to replace the existing data with the new data.

### ■ To edit the chord progression

On the editing operation selection screen (page E-28), select "CHORD" and then press the (ENTER) button to display the chord progression editing screen shown below.

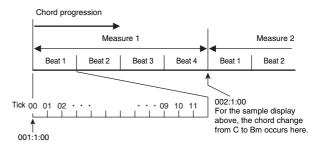


### (1) Step (timing and chord)

The timing of a chord progression is expressed as a series of three values separated by colons (such as 001:1:00) indicating measure\*1 (001), beat (1), and tick (00).\*2 This series of three values is referred to collectively as a "step".

The screen shot above shows the first two steps (001, 002) of the Music Preset. Use the ③ (REW) and

- **4** (FF) buttons to scroll and view other steps.
- \*1 Up to 999 measures
- \*2 There are 12 ticks per beat, as shown below.

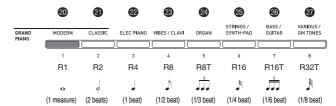


### (2) Cursor

Specifies the step that is currently selected for editing.

### (3) Resolution

Resolution is a unit used when editing step timing. The initial resolution is R1 (one measure), but you also can select R4 (1 beat = 4 quarter notes) when you want to specify chords for each beat. Use the instrument part buttons (② through ③) to select one of the eight resolutions shown below.



- 2. Use the 3 (REW) and 4 (FF) buttons to move the cursor (2) on the chord progression editing screen to the step you want to select.
- Change the content of the selected step as desired.
  - **3-1. Select a chord fingering mode and use the chord keyboard (page E-19) to input chords.** Fingering a chord causes the cursor (2) to move to the next step automatically.
    - If you want to advance to the next step without changing the current chord, press the **⑤** (PAUSE) button.
    - If (3) Resolution is shorter than the time up to the next step, a new step (without chord) that is equal to the time of the resolution will be inserted temporarily into the Music Preset. Fingering a chord for the new step will cause the step to be registered as part of the Music Preset, and the cursor will advance to the next step.\* You can use this operation to insert a new step between the current and following step.
    - \* Using the ③ (REW) and ④ (FF) buttons to move the cursor without inputting a chord will delete the temporarily inserted step.
  - 3-2. Use the **⑤** (**∨**, **∧**) buttons to change the step timing (measure:beat:tick).

Each press of either button changing the timing in accordance with the resolution.

- The range of values you can specify for the step timing is limited by the steps before and after the current step.
- The timing of the first step (001:1:00) is fixed and cannot be changed. Also, the final step is always one measure, regardless of the resolution.



- 3-3. To delete a step, press both of the **②** (**∨** and **∧**) buttons at the same time.
  - You cannot delete the first step or the last step.

- 4. Repeat the above steps to edit all of the steps you want.
  - You can playback the Music Preset you are currently editing by pressing the **6** (START/STOP) button.
  - The table below describes other Music Preset editing operations you can perform. Press the <sup>⑤</sup> (FUNCTION) button, use the <sup>⑥</sup> (≺) and <sup>⑥</sup> (≻) buttons to select the editing operation you want, perform the required operation, and then press the <sup>⑥</sup> (ENTER) button to apply the edit and return to the chord progression editing screen.
  - To exit the editing operation and discard all of your edits, press the ② (EXIT) button.

	Editing Operation (Display)	Description	Operation
1 Initialize (Initialize)		Initializes all steps. Initialization is useful when you want to create a totally new chord progression from scratch.	-
2	Change Key (Change Key)	Changes the pitch (key) of the chords in all of the steps in semitone units.	Use the (1) (\(\nsigma, \simp\)) buttons to select the amount of change you want (-5 to 6 semitones).
3	Append Music Preset (Append Chords)	Copies all of the steps of another Music Preset to the end of the current Music Preset.	Use the (1) (\(\nsigma, \lambda\)) buttons to select the number* of the Music Preset you want to add.
4	Delete Measures (DELETE Measure)	Deletes a specified number of measures from the current cursor step forward.	Use the (19 ( \( \shi \), \( \shi \)) buttons to select the measures.
		Inserts a blank measure at the currently selected step.	-

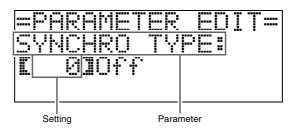
- \* The Music Presets in groups B, C, and D are numbered sequentially, following the numbers in group A, which start with 001. For details about sequential numbers, see the "Music Preset List" on page A-6.
- 5. After all editing operations are complete, press the (EXIT) button to return to the editing operation selection screen (page E-28).

### NOTE

• A single preset can contain up to approximately 2,000 chords. If your edits cause the chord limit to be exceeded, the message "Memory Full" will appear on the display and further editing will become impossible.

### ■ To edit Auto Accompaniment parameters

1 On the editing operation selection screen (page E-28), select "Parameter" and then press the (ENTER) button to display the Auto Accompaniment parameter editing screen shown below.

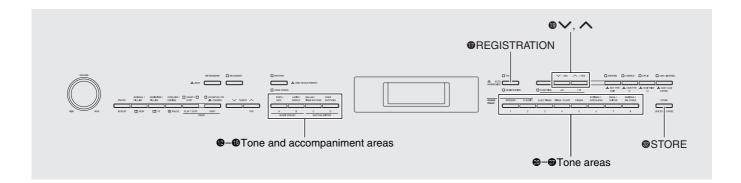


2. Use the (() and (()) buttons to select a parameter, and the ((), ()) buttons to change its setting.

	Parameter	Description	Setting
1	SYNCHRO TYPE: Synchro type	Selects the synchro standby status and type when the Music Preset is selected.	0 Off: Off (no standby) 1 Normal: From standby to normal pattern 2 Variation: From standby to variation pattern 3 Intro: From standby to intro pattern
2	DRUM ON/OFF: Drum on/off	Toggles the drum part (page E-22) on or off.	OFF: Mutes the part. ON: Sounds the part.
3	PERC ON/OFF: Percussion on/off	Toggles the percussion part (page E-22) on or off.	OFF: Mutes the part. ON: Sounds the part.
4	BASS ON/OFF: Bass on/off	Toggles the bass part (page E-22) on or off.	OFF: Mutes the part. ON: Sounds the part.
5 - 9	CHORD1 - 5 ON/OFF: Chord 1 - 5 on/off	Toggles the Chord 1 through 5 parts (page E-22) on or off.	OFF: Mutes the parts. ON: Sounds the parts.
10	INTRO CHORD: Intro chord	Selects from among major (× 12 keys) and minor (× 12 keys) for the intro chords.	C - B: Major (C to B) Cm - Bm: Minor (Cm to Bm)
11	ENDING CHORD: Ending chord	Selects from among major (× 12 keys) and minor (× 12 keys) for the ending chords.	C - B: Major (C to B) Cm - Bm: Minor (Cm to Bm)
12	AUTO FILL-IN: Auto fill in on/off	Specifies whether or not a fill-in should be inserted into the final measure of a chord progression.	OFF: Fill-in not inserted ON: Fill in inserted
13	TIMING SET: Chord progression variation	<ul> <li>This parameter lets you add different variations to the timing of the chord progression being edited. You can use it to match the chord progression to the beat of a specific rhythm.</li> <li>A chord (step) that is outside of the rhythm's beat is cut off.</li> </ul>	<ol> <li>Normal: Edited chord progression proceeds as-is.</li> <li>Half: Halves chord timing within a measure.</li> <li>Double: Doubles chord timing within a measure.</li> <li>Multiplies chord timing within a measure by 3/4. Select this setting to match to a 6/8 time rhythm.</li> <li>Multiplies chord timing within a measure by 3/2. Select this setting to match to a 6/4 time rhythm.</li> </ol>

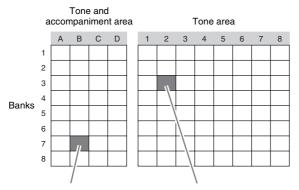
**3**. After all editing operations are complete, press the **(EXIT)** button to return to the editing operation selection screen (page E-28).

# **Registering Tone and Rhythm Setups**



Registrations let you save Digital Piano setups (tone, rhythm, tempo, etc.) and for quick and easy recall when you need them.

Registrations are stored using eight banks of 12 areas each as shown in the illustration below, for a total of 96 setups. Areas A through D on the left (tone and accompaniment area) is for storing tones and Auto Accompaniment settings, while areas 1 through 8 (tone areas) are for storing tone settings only.



Bank 7, Area B data

# Tone Settings Keyboard Tone: 003 Harpsichord Brightness: 2 Reverb: 1 Room Chorus: Off ... Auto Accompaniment Settings Rhythm: 005 Pop Rock Tempo: 180 Accompaniment Volume: 098

Bank 3, Area 2 data

# Tone Settings Keyboard Tone: 002 Electric Piano2 Brightness: –1 Reverb: 4 Stadium Chorus: 1 LightChorus .

### ■ Registration Data Types

### Tone Settings

- Tone numbers (main, layer, lower split)
- Layer on/off
- Layer balance
- Split on/off
- Split point
- · Octave shift
- Brightness
- Reverb
- Chorus
- Transpose
- Touch response
- Soft/sostenuto pedal setting
- Damper pedal adjustment
- Pitch bend range

### Auto Accompaniment Settings (Areas A through D only)

- Rhythm number
- Accomp on/off
- Chord fingering mode
- Synchro standby
- Tempo
- Auto Accompaniment volume
- · Auto harmonize

### **Saving Registration Data**

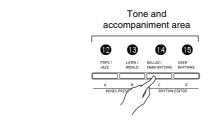
- Configure the Digital Piano with the tone, rhythm, and other settings you want to save.
- 2. While holding down the **②** (STORE) button, use the **③** (✓, ∧) buttons to select the bank where you want to save the registration.

Example: Bank 4



3. Next, hold down the (STORE) button again as you use the rhythm group buttons (12 through (3) or instrument part buttons (20 through (3)) to select an area.

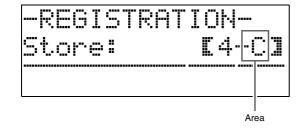
The data will be saved to the bank and area you specify.



Tone area



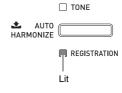
Example: Bank 4, Area C



### **Recalling a Registration**

1 Press the (REGISTRATION) button so its lower lamp is lit.

This enters the registration recall mode.





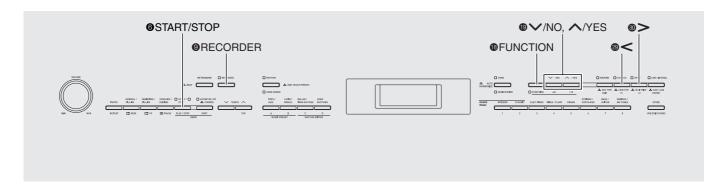
- 2. Use the ((\(\sigma\), (\(\sigma\)) buttons to select the bank where the registration you want to recall is located.
- 3. Use the rhythm group buttons (12 through 15) or instrument part buttons (20 through 27) to specify the area.

This will configure the Digital Piano with the registration data located at the bank and area you specified.

Example: When recalling the registration data in Bank 4, Area C



# **Recording Your Keyboard Play**



You can record your music as you play and store up to five songs in Digital Piano memory for later playback. You can divide a song into parts (by instrument, by left hand and right hand, etc.) and record each part separately. You can even use "punch-in recording" to edit specific parts of existing recordings.

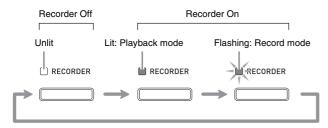
# Recording or Playing Back a Single Song

The following are the steps for recording or playing back a single recorder memory song.

1 Press the (RECORDER) button twice so its lamp is flashing.

This turns on the recorder and enters record mode.

• Each press of the **②** (**RECORDER**) button cycles through modes as shown below.



- 2. Configure the tone, rhythm, and other settings you want to use.
  - The settings you configure here will be included as part of the recorded song data.
  - For details about what is included in the recorded song data, see "System Track" (page E-35).
- 3. Play something on the keyboard.

Recording starts as soon as you play something.

• If Auto Accompaniment is playing, it will be included in the recorded data.

4. When you are finished, press the (START/STOP) button.

This will cause the **②** (**RECORDER**) lamp to flash and then light, indicating the playback mode.

• If you are using Auto Accompaniment, you also can end the recording session by pressing the **⑤** (ENDING) button.



- To play back what you have recorded, press(START/STOP) again.
  - Each press of 6 starts and stops playback.
- 6 To turn off the recorder, press the (RECORDER) button so its lamp goes out.





- Recorder memory capacity is approximately 10,000 notes per song. When remaining capacity is 100 notes or less, the (RECORDER) button lamp will flash at high speed. Recording will stop automatically when memory becomes full.
- Repeat, fast reverse, fast forward, pause, and tempo adjustment during playback are the same as when playing back user songs. See "Listening to Songs Loaded from an External Source" (page E-25) for more information.
- You can listen to the song data currently stored in recorder memory at any time by pressing the
   (RECORDER) button to enter the playback mode and then pressing (START/STOP).

#### IMPORTANT!

- A new recording replaces (deletes) previously recorded contents.
- If power to the Digital Piano is cut off while recording is in progress, everything you recorded up to that point will be deleted. Take care so power is not turned off accidentally during recording operations.

# Recording or Playing Back Multiple Songs

You can record up to five songs (numbered 1 through 5) in memory. After that, you can select a specific song for playback.

1 Use the (RECORDER) button to cycle through the recorder modes until the playback mode is selected.



2. While holding down the (§ (FUNCTION) button, press the (§ (RECORDER) button. This displays the song selection screen.



- 3. Use the **()** (**√**, **∧**) buttons to select the song number you want.
- 4. Press the (EXIT) button to exit the song selection screen.
- To record to the currently selected song, press the (RECORDER) button. To play back the currently selected song, press the (START/STOP) button.
- 6. If you are recording, continue from step 2 under "Recording or Playing Back a Single Song" (page E-34).

# Recording to a Specific Track (Part)

You can record specific instruments, the left hand and right hand, or other parts of a song individually, and then combine them into a final song.

#### ■ What is a track?

A "track" is a separate recorded part of a song. The recorder of this Digital Piano supports a total of 17 tracks, which are divided between two types described below.

#### System Track

In addition to notes you play on the keyboard and other performance operation data, the system track also includes a wide range of setup information for the song, including layer on/off, split on/off, tempo, Auto Accompaniment settings, reverb on/off, etc. When you record a single-track song to recorder memory, as shown under "Recording or Playing Back a Single Song" (page E-34) and "Recording or Playing Back Multiple Songs" (page E-35), everything is recorded to the system track.

#### • Tracks 01 through 16

These tracks can be used to record notes, as well as pitch bend wheel and pedal operations, and the keyboard tone setting. These tracks can be combined with the system track and each other to create the final song.

#### **■** Supported Track Data

The following describes the data that can be recorded to each type of track.

#### System Track, Tracks 01 through 16

Keyboard notes, keyboard tone setting (main), pedal and pitch bend wheel operation

#### **System Track only**

Layer, split, octave shift, reverb, chorus, keyboard temperament, tempo, Auto Accompaniment play, auto harmonize, one-touch preset, Music Preset,\*1 registration\*1\*2

- \*1 Recall only
- \*2 The Auto Accompaniment volume level and transpose setting of the recalled data is not included in the recording.
- **1.** Record the first part to the system track.
  - Use the procedure under "Recording or Playing Back a Single Song" (page E-34) or "Recording or Playing Back Multiple Songs" (page E-35) to record to the system track.
- 2. Use the (RECORDER) button to cycle through the recorder modes until the RECORDER lamp is flashing (record mode).

Flashing: Record mode



**3.** While holding down the (FUNCTION) button, press the (RECORDER) button.

This displays the track selection screen.

Use the  $( \checkmark )$ , ) button to select the track you want to record next (T01 through T16).

After selecting a track, press the **(EXIT)** button to exit the track selection screen.

Track Name	Display	
System Track	Sys	
Tracks 01 through 16	T01 through T16	

- **4.** Select the tone of the part you want to record to the track.
- **5**. Press the **6** (START/STOP) button.

This will start playback of what you recorded to the system track and start recording to the currently selected track. Play what you want to record to the current track along with the playback from the system track.

**6** To stop recording, press the **6** (START/STOP) button again.

This enters the playback mode. Press the ③ (START/STOP) button again to play back the track you just recorded. Each press of ③ (START/STOP) starts and stops playback.

- You can use the following procedure to turn specific tracks on (play enabled) and off (play disabled). This allows you to listen only to the track(s) you want when recording a new track.
  - (1) While holding down the (FUNCTION) button, press the (RECORDER) button. This displays the song selection screen.
  - (2) Press the **②** (**>**) button once. This displays the track on/off screen.
  - (3) Use the **⑤** (**∨**, **∧**) buttons to select the track you want, and then press the **⑥** (ENTER) button to toggle it on or off.
- 7 Repeat steps 2 through 6 as required to record all of the tracks you want.

## **Deleting Recorder Data**

You can use the procedures below to delete an entire recorder song or to delete a specific track of a recorder song.

#### **Deleting a Recorder Song**

Use the (RECORDER) button to cycle through the recorder modes until the RECORDER lamp is lit (playback mode).



- 2. While holding down the (FUNCTION) button, press the (RECORDER) button.

  This displays the recorder song selection screen.
- 3. Use the **()** (**√**, **∧**) buttons to select the recorder song you want to delete.
- 4. Hold down the (RECORDER) button until the message "Sure?" appears on the display.
- **5.** Press the **(YES)** button to delete the recorder song.
  - To cancel the delete operation, press the (NO) button.

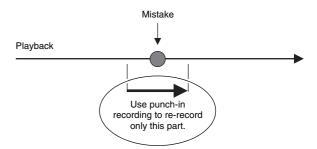
#### **Deleting a Recorder Song Track**

- 1 Perform steps 1 through 3 of the procedure under "Deleting a Recorder Song" to select the recorder song that contains the track you want to delete.
- 2. Press the ( > ) button.

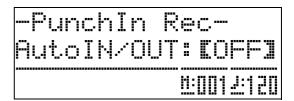
  This displays the track selection screen.
- 3. Use the **()** (**∨**, **∧**) buttons to select the track you want to delete.
- 4. Hold down the **(RECORDER)** button until the message "Sure?" appears on the display.
- 5. Press the (YES) button to delete the track.
  - To cancel the delete operation, press the (NO) button.

#### Re-recording Part of a Recorder Song (Punch-in Recording)

You can use punch-in recording to re-record a specific part of recorder song that you want to improve or correct.



- 1. Turn on the recorder, enter the record mode, and select the track that contains the section you want to re-record.
  - See step 3 under "Recording to a Specific Track (Part)" (page E-35).
- 2. Hold down the (RECORDER) button until the punch-in recording screen appears on the display.



- **3.** Press the **(START/STOP)** button. This will start playback of the selected track.
- **4.** When playback reaches the point you want to re-record, play the notes and perform the other operations you want.

This automatically starts punch-in recording, which will continue until step 5, below.

- Any one of the following also will start punch-in recording: a pedal or pitch bend wheel operation; pressing the (RECORDER) button;\*1 changing the tone setting; changing the rhythm, or tempo setting\*2
  - \*1 Press ② (RECORDER) when you want to start punch-in recording without note input or a setting change.
  - \*2 System track only
- You can perform **③** (REW), **④** (FF), and **⑤** (PAUSE) button operations during punch-in playback to jump more quickly to the section you want to re-record.

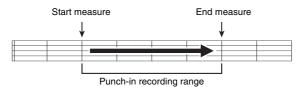
5. To stop punch-in recording, press the (START/STOP) button again.

Anything in the track following the point where you pressed the **6** (START/STOP) button will be retained as-is.

- If you want to delete all of the data in the track following the section you re-recorded with punch-in recording, press the (RECORDER) button in place of the (START/STOP) button above.
- If you want to cancel punch-in recording and retain the original (unedited) track data, hold down the **③** (**RECORDER**) button until the display exits the punch-in recording screen.

# Specifying the Punch-in Recording Location (Auto Punch-in Recording)

You can use the following procedure to specify a particular range for punch-in recording.



- 1. Turn on the recorder, enter the record mode, and display the recording setup screen.
  - While holding down the (FUNCTION) button, press the (RECORDER) button.
- 2. Use the (<) and (>) buttons to display "AutoPu.IN", and then use the ((\(\nabla\), \(\nabla\)) buttons to select the start measure.
- 3 Use the (<) and ( >) buttons to display "AutoPu.OUT", and then use the (
  (∨, ∧) buttons to select the end measure.
  - After selecting the start and end measures, press the <a>®</a> (EXIT) button to exit the recording setup screen.
- **4.** Select the track that contains the range of measures you want to re-record.
  - See step 3 under "Recording to a Specific Track (Part)" (page E-35).
- 5. Hold down the (RECORDER) button until the punch-in recording screen appears on the display.
- **6.** Press the **()** (**\widehilds**) button to turn on auto punch-in recording.

- **7.** Press the **(START/STOP)** button to start playback.
  - Punch in recording will start from the start measure and stop with the end measure automatically.
- Play the notes and perform the other operations you want.

## ■ Performing Punch-in Recording for Areas Smaller than One Measure

Use the procedure below to specify a punch-in recording area that includes a part of a measure.

Example: To re-record from beat 3 of measure 2 up to beat 1 of measure 4



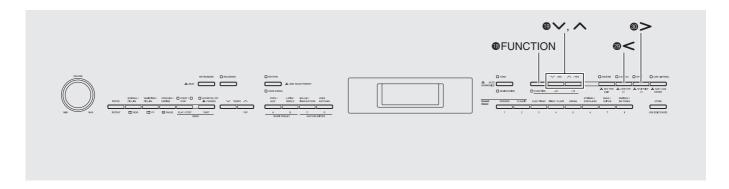
To re-record this section

- Start playback of the song that contains the section you want to re-record.
- When playback reaches the beginning of the section you want to re-record, press the (REPEAT) button.
- 3. When playback reaches the end of the section you want to re-record, press the ② (REPEAT) button again.
- **4.** Press the **(START/STOP)** button to stop playback.
- **5.** Turn on the recorder and select the track that contains the section you want to re-record.
  - For information about selecting a track, see step 3 under "Recording to a Specific Track (Part)" (page E-35).
- 6. Hold down the (RECORDER) button until the punch-in recording screen appears on the display.
- 7. Press the ( ) button to turn on auto punch-in recording.
- 8. Press the ② (REPEAT) button to turn on repeat.
- 9. Press the **(START/STOP)** button.

This starts punch-in playback from the measure before the location (start point) you specified in step 2, above.

• Punch-in recording starts automatically when playback reaches the start point and ends automatically when it reaches the location you specified in step 3 (end point).

## **Other Settings**

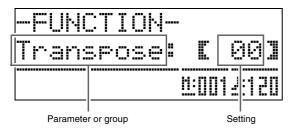


You can use the settings in this section to adjust the tuning and touch of the keyboard, to configure pedal and MIDI settings, and to configure other parameters in order to tailor Digital Piano operation to your particular needs.

#### **Configuring Settings**

 $oldsymbol{1}_{oldsymbol{lpha}}$  Press the  $oldsymbol{oldsymbol{lpha}}$  (FUNCTION) button.

The FUNCTION lamp will light and the function screen will appear on the display. (See table below.)



- 2. Use the ((<)) and ((>)) buttons to select one of the parameters (1 through 8) shown in the table below.
  - Parameters 4 through 8 actually are parameter groups. After selecting a group, press the ③ (ENTER) button, and then use buttons ④ (≺) and ⑤ (➤) to select the parameter you want.
  - Short cut buttons also are available for accessing a parameter directly after you press the (FUNCTION) button, without going through the menu. See the "Shortcut Button" column in the table below for the applicable shortcut button of each parameter.
- 3. Use the **()** (**√**, **∧**) buttons to change the setting of the currently selected parameter.
  - To return to the function screen, press the ② (EXIT) or ③ (FUNCTION) button.

#### NOTE

- Holding down the **③** (**FUNCTION**) button while you press the **⑤** (**∨**, **∧**) buttons in step 3 will scroll the setting in steps of 10.
  - You also can use the (FUNCTION) button for faster scrolling while changing the tone number, rhythm number, and other scrollable settings.

No.		Parameter	Display Name	Description	Settings	Shortcut Button*
1	Keyl	ooard Key (Transpose)	Transpose	Adjusts keyboard tuning by semitone units.	-12 to 00 to 12 semitones	<b>@</b>
2	Keyboard Fine Tuning (Tuning)		Tune	Adjusts keyboard tuning by cent (1 semitone = 100 cents) units.	-99 to 00 to 99 cents	3
3	Keyboard Touch (Touch Response)		Touch	Adjusts keyboard touch.	Off: Off 1: Strong sound even with light pressure 2: Normal 3: Normal sound even with strong pressure	<b>@</b>
4	Volu	ıme Level Group	Volume			2
	4-1	Layered Tone Volume (Layer Balance)	LayerBal.	Adjusts the volume level of the layered tone without changing the keyboard main tone.	-24 to 00 to 24	_
	4-2	Auto Accompaniment Volume	AccompVol.	Adjusts the volume level of Auto Accompaniment without changing the keyboard tone volume level.	00 to 42	<b>13</b> – <b>1</b>
	4-3	Song Volume	SongVol.	Adjusts the volume level of user song playback without changing the keyboard tone volume level.	00 to 42	<b>13</b> – <b>1</b>
	4-4	Metronome Volume	MetroVol.	See page E-15.	00 to 42	<b>1</b> 3 – <b>3</b>
5	Tem	perament/Effect Group	Tmpr/Effect			25
	5-1	Temperament	Temper.	Changes the temperament of the keyboard and Auto Accompaniment from the standard equal temperament to another tuning more suitable for playing classics, etc.  • Pressing a keyboard key while the temperament screen is displayed will make the pressed key the base note of the temperament.	<pre><temperaments> 00: Equal / 01: Pure Major / 02: Pure Minor / 03: Pythagorean / 04: Kirnberger 3 / 05: Werckmeister / 06: Mean-Tone / 07: Rast / 08: Bayati / 09: Hijaz / 10: Saba / 11: Dashti / 12: Chahargah / 13: Segah / 14: Gurjari Todi / 15: Chandrakauns / 16: Charukeshi</temperaments></pre>	_
					C to B (12 types)	
	5-2	Accompaniment Temperament	AccompTmpr	Turn this setting off to play Auto Accompaniment patterns using standard equal temperament (00: Equal), regardless of the temperament setting currently selected with the Temperament parameter (5-1).	Off, On	-
	5-3	Stretch Tuning	Stretch	Sharpens high notes and flattens low notes to achieve stretch tuning. Turn off this setting to play with normal (non-stretch) tuning.	Off, On	_
	5-4	Brilliance	Brilliance	See page E-12.	-3 to 0 to 3	_
	5-5	Acoustic Resonance	AcoResona.	Reproduces the acoustic resonance that occurs when the damper pedal is depressed on a grand piano. No acoustic resonance is applied when this setting is turned off.	Off, On	_
	5-6	Octave Shift	OctShift	See page E-12.	U1: -2 to 0 to 2 U2: -2 to 0 to 2 L1: -2 to 0 to 2	<b>13</b> – <b>17</b>
	5-7	Duet Mode	Duet	See page E-15.	Off, On	<b>1</b> 3 – <b>3</b> 0

<sup>\* 🚯 – 🕦</sup> in this column means, "While holding down 🚯, press 🕦."

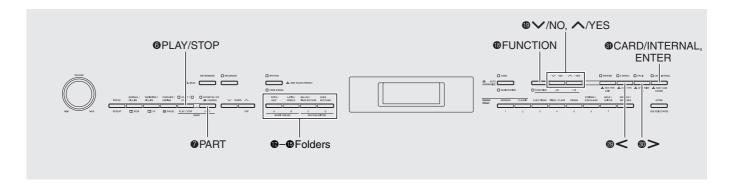
No.	No. Parameter		Display Name	Description	Settings	Shortcut Button*
6	Song	Rlayback/Card Group	Play/CARD			<b>@</b>
	6-1	Pre-count	PreCount	Turn on this setting for an audible count before starting playback of a user song or a song on a memory card.	Off, On	-
	6-2	Song Repeat	SongRepeat	Turn on this setting to repeat play a user song or a song on a memory card.	Off, On	13 - 2
	6-3	Card Folder	CARD Folder	See page E-53.	(Folder Name)	13 - 13 to 15
	6-4	Formatting a Memory Card	CARD FORMAT	See page E-45.	_	<b>1</b> 3 – <b>3</b> 1
	6-5	Card File Delete	File DELETE	See page E-47.	-	-
	6-6	Card File Rename	File RENAME	See page E-48.	-	-
7	MID	I Group	MIDI			<b>Ø</b>
	7-1	Keyboard Channel	KeyboardCh	Selects the keyboard channel, which is the channel used to send MIDI data corresponding to Digital Piano keyboard play to an external device.	01 to 16	-
	7-2	Accomp MIDI Out	AccompOut	Turn on this setting to send MIDI data corresponding to Auto Accompaniment to an external device.	Off, On	-
	7-3	MIDI In Chord Judge	ChordJudge	Select whether chord input should be performed when an Auto Accompaniment chord keyboard MIDI note on message is received.	Off, On	-
	7-4	Local Control	LocalCtl.	Turn off this setting to have keyboard notes sent to an external device without being sounded by the Digital Piano.	Off, On	-

<sup>\* 19 – 11</sup> in this column means, "While holding down 19, press 11."

No.		Parameter	Display Name	Description	Settings	Shortcut Button*
8	Othe	er Parameters Group	General		•	28
	8-1	Display Contrast	Contrast	Adjusts the contrast of the Digital Piano's display.	00 to 16	-
	8-2	Soft/Sostenuto Pedal Jack Setting	Ped.Assign	Specifies whether the pedal unit connected to the SOFT/SOSTENUTO jack is a soft pedal or a sostenuto pedal.  • See page E-15 for details about the two pedal types.	SFT : Soft pedal SOS : Sostenuto pedal	-
	8-3	Half Pedal Effect	HalfPedal	Adjusts the amount of the pedal effect applied when the damper pedal is pressed part way.	00 to 42	-
	8-4	Pitch Bend Range	BendRange	Specifies the amount of pitch bend applied when the pitch bend wheel is rotated all the way up or down.	00 to 12 semitones	-
	8-5	Panel Lock	PanelLock	Turn on to lock the Digital Piano's control panel to prevent unauthorized or accidental operation.  • This setting is disabled in the Duet Mode, while the recorder is on, or while Auto Accompaniment, a song, or the metronome is playing.	Off, On	-
	8-6	Setting Backup	BackUp	Switching this setting from off to on will save various Digital Piano settings in effect at that time, and restore them the next time the Digital Piano is turned on.  • This operation is disabled in the Duet Mode, while the recorder is on, or while Auto Accompaniment, a song, or the metronome is playing.	Off, On	-

<sup>\* 13 – 11</sup> in this column means, "While holding down 13, press 11."

# **Using a Memory Card**



You can use the procedures in this section to transfer edited Auto Accompaniment data, recorder data, and other data from the Digital Piano to a commercially available SD memory card for storage. You also can use a memory card to transfer standard MIDI files (SMF), and accompaniment data you downloaded from the CASIO website from your computer to Digital Piano memory. Once you do, you can use them as user songs and user rhythms.

- Use a memory card with a capacity of 2GB or less.
   Use of a card with a capacity that is greater than
   2GB or other types of memory cards is not supported.
- In this manual, mentions of a "memory card" refer to an SD memory card.

#### **■** Types of Data

		Supported Operations		
Data Type	Description (File Name Extension)	Save to Memory Card	Load from Memory Card	
User rhythms (page E-21)	Auto Accompaniment data edited with this Digital Piano (AC7)	0	0	
User songs (page E-25)	One of the following two types of music data 1. CASIO format data (CM2) 2. Standard MIDI files (MID) SMF Format 0 or Format 1	-	0	
User Music Presets (page E-28)	Music Preset data edited on this Digital Piano (MPS)	0	0	
Recorder songs (page E-34)	Song data recorded on this Digital Piano (CSR)	<u></u> *	0	
Registration (page E-32)	Tone and rhythm setup settings (CR6)	0	0	

<sup>\*</sup> Can be saved as a standard MIDI file (SMF format 0).

#### **Card and Card Slot Precautions**

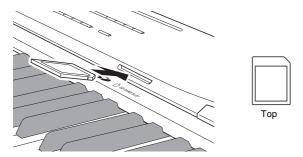
#### MPORTANT!

- Be sure to observe the precautions provided in the documentation that comes with the memory card.
- Memory cards have a write-protect switch. Use it when you want to protect the data on the card from accidental deletion.
- Avoid using a memory card under the following conditions. Such conditions can corrupt data stored on the memory card.
  - Areas subjected to high temperature, high humidity, or corrosive gas
  - Areas subjected to strong electrostatic charge and digital noise
- Never touch the contacts of a memory card when loading it or removing it from the Digital Piano.
- Never eject the memory card while data is being written to or loaded from it. Doing so can corrupt the data on the memory card and damage the memory card slot.
- Never insert anything besides a memory card into the card slot. Doing so creates the risk of malfunction.
- Electrostatic charge from your fingers or the memory card to the card slot can cause malfunction of the Digital Piano. If this happens, turn the Digital Piano off and then back on again.
  - A memory card can become quite warm after very long use in the memory card slot. This is normal and does not indicate malfunction.

# **Loading and Removing a Memory Card**

#### MPORTANT!

- A memory card must be positioned correctly when being loaded into the Digital Piano. Trying to force an improperly oriented memory card into the slot can damage the memory card and the slot.
- With the top of the memory card facing upwards (so you can see it), carefully insert it into the Digital Piano's memory card slot (3) until stops with a click.



To remove the memory card first press it into the slot further.

This will cause the memory card to disengage and eject partially. Pull the memory card the rest of the way out of the slot.

#### **Formatting a Memory Card**

#### IMPORTANT!

- Format a memory card before using it for the first time.
- Before formatting a memory card, make sure it does not have any valuable data stored on it.
- The memory card format operation performed by this Digital Piano is a "quick format". If you want to completely delete all of the data on the memory card, format it on your computer or some other device.
- Insert the memory card you want to format into the Digital Piano's memory card slot.
  Make sure the write-protect switch of the memory card is not in the write-protect position so writing is enabled.
- 2. While holding down the (B) (FUNCTION) button, press the (CARD/INTERNAL) button.

This displays the format screen.



**3** Press the **⑤** (ENTER) button.

This will display a confirmation message (SURE?).

- If you want to cancel the format operation, press the (NO) or (EXIT) button.
- 4. Press the (YES) button.
  - The message "Please Wait" will remain on the display while the format operation is being performed. Do not perform any Digital Piano operation while this message is on the display. "Complete" appears on the display after formatting is complete.

# **Saving Digital Piano Data to a Memory Card**

Use the following procedure to save Digital Piano data to a memory card.

- Recorder songs can be saved as a standard MIDI file (SMF format 0).
- User songs (downloaded songs, etc.) cannot be saved to a memory card.
- Insert a memory card into the Digital Piano's memory card slot.
- Select the data you want to save to the memory card.

To select this type of data:*1	Do this:
User rhythms	Select from among user rhythms 001 through 010 (page E-21).
User Music Preset	Select from among user Music Preset 001 through 050 (page E-28).
Recorder songs	Select from among recorder songs 1 through 5 (page E-34).
Registrations*2	Press the <b>(REGISTRATION)</b> button so its lower lamp is lit.

- \*1 For more information about data types, see page E-44.
- \*2 All registration data (8 banks × 12 areas) is saved in a single file.
- 3. Hold down the **(CARD/INTERNAL)** button until the "LOAD" screen appears for the data you selected.
  - You can cancel the LOAD/SAVE operation any time by pressing the ② (EXIT) button.
- 4. Press the ( > ) button to switch to the "SAVE" screen for the data you selected.
  - If you are saving a recorder song to a standard MIDI file (SMF), press the ( ) button again so "SMF" is displayed on the right side of the screen.

- 5 Use the (✓, ✓) buttons to select the file number (01 to 99) you want to assign to the data when it is saved to the memory card.
  - The file number is the final two characters of the file name\* that appears on the display. By changing this within the range of 01 to 99 for each save, up to 99 files of the same data type can be stored on the memory card.
    - \* The first six characters of the file name indicate the data type as shown below. These characters are fixed and cannot be changed.

Data Type	File Name (** = file number)
User rhythms	USRRHY**
User Music Preset	USRMPS**
Recorder songs	RECSNG**
Registrations	REGIST**

#### 6. Press the ( (ENTER) button.

- The message "Please Wait" will remain on the display while the save operation is being performed. Do not perform any Digital Piano operation while this message is on the display. "Complete" appears on the display after data save is complete.
- If there already is a file with the same name on the memory card, a message (Replace?) will appear asking if you want to replace it with the new data. Press the (YES) button to overwrite or the (NO) button to cancel the save operation.

#### ■ Memory Card Data Storage

The above procedure stores Digital Piano data in a folder named MUSICDAT on the memory card.

- The MUSICDAT folder is created automatically when you format the memory card on the Digital Piano (page E-45).
- Note that files not in the MUSICDAT folder cannot be loaded, deleted, or renamed by this Digital Piano. You also will not be able to load or delete any file stored in any subfolder inside the MUSICDAT folder.

# **Loading Data from a Memory Card**

You can use the procedure below to load data from a memory card into Digital Piano memory.

#### MPORTANT!

- Make sure that all of the data you want to load is in the MUSICDAT folder on the memory card.
   Note that if you put data into a music data play-only folder on a memory card (such as the MUSIC\_B folder), you will no longer be able to load that file into Digital Piano memory.
- 1 Insert the memory card into the Digital Piano's memory card slot.
- 2. Select the data you want to load.

To load this type of data*	Do this:
User rhythms	Select from among user rhythms 001 through 010 (page E-21).
User songs	Select from among user songs 001 through 010 (page E-25).
User Music Preset	Select from among user Music Presets 001 through 050 (page E-28).
Recorder songs	Select from among recorder songs 1 through 5 (page E-34).
Registrations	Press the (REGISTRATION) button so its lower lamp is lit.

- \* For more information about data types, see page E-44.
- 3. Hold down the **(CARD/INTERNAL)** button until the "LOAD" screen appears for the data you selected.
  - You can cancel the LOAD/SAVE operation any time by pressing the ② (EXIT) button.
- **4** Use the **()** (**\( \sigma**, **\( \sigma \)**) buttons to select the file you want.
- 5. Press the ( (ENTER) button.
  - The message "Please Wait" will remain on the display while the load operation is being performed. Do not perform any Digital Piano operation while this message is on the display. "Complete" appears on the display after data loading is complete.
  - If there already is a file with the same name on the in Digital Piano memory, a message (Replace?) will appear asking if you want to replace it with the new data. Press the (YES) button to overwrite or the (NO) button to cancel the load operation.

## **Deleting Memory Card Data**

Use the following procedure to delete memory card data (files).

- 1 Insert the memory card into the Digital Piano's memory card slot.
- 2. While holding down the (FUNCTION) button, press the (CARD/INTERNAL) button.

This displays the memory card format screen (page E-45).

- **3.** Press the **(3)** (**>**) button. This displays the file delete screen.
- **4** Press the **(ENTER)** button.

  This displays a screen for selecting data for deletion.
- 6. Press the ( (ENTER) button.

This will display a confirmation message (SURE?).

- If you want to cancel the delete operation, press the (NO) or (EXIT) button.
- 7. Press the (YES) button.
  - The message "Please Wait" will remain on the display while the delete operation is being performed. Do not perform any Digital Piano operation while this message is on the display. "Complete" appears on the display after deletion is complete.

#### **Renaming a Memory Card File**

Use the following procedure to change the file name of a file on a memory card.

- 1 Insert the memory card into the Digital Piano's memory card slot.
- 2. While holding down the (FUNCTION) button, press the (CARD/INTERNAL) button.

This displays the memory card format screen (page E-45).

- **3.** Press the **⑤** button (**>**) twice so "File RENAME" is displayed.
- **4.** Press the **3** (**ENTER**) button. This displays a screen for changing the file name.
- 5. Use the 
  ( ∨, ∧) buttons to select the file you want.
- 6 Use the ( ) and ( ) buttons to move the flashing cursor to the character you want to change, and then use the ( ) ( √, ) buttons to change the character.
  - The characters you can select are shown below.

0	1	2	3	4	5	6	7	8	9
Α	В	С	D	Е	F	G	Н	1	J
K	L	М	N	0	Р	Q	R	S	Т
U	٧	W	Χ	Υ	Z	\$	&	_	1
(	)	-	٨	{	}	@	~	`	

7. After the file name is the way you want, press the ( ENTER) button.

This will display a confirmation message (SURE?).

- If you want to cancel the renaming operation, press the (NO) or (EXIT) button.
- 8. Press the (YES) button.
  - The message "Please Wait" will remain on the display while the rename operation is being performed. Do not perform any Digital Piano operation while this message is on the display. "Complete" appears on the display after renaming is complete.

# Playing Back a Song from a Memory Card

You can use the procedure below to play back a user song (page E-25) stored on a memory card without loading the song into Digital Piano memory.

#### **■** Memory Card Folders

Formatting a memory card on the Digital Piano will automatically create the four folders shown below. You put playback song data into any one of the folders. You can use the four folders to group your music data by family member, genre, or some other categories. Use buttons (2) through (3) (A through D) to select a folder.

Folder Name	Button Assignment
MUSICDAT	<b>12</b> (A)
MUSIC_B	<b>(B)</b>
MUSIC_C	<b>1</b> (C)
MUSIC_D	<b>(</b> b) (D)

- **1.** Store the music data you want to play back in one of the memory card folders.
- 2. Insert the memory card into the Digital Piano's memory card slot.
- 3. Press the **(CARD/INTERNAL)** button.
- 4. Press one of the folder selection buttons (through through to select the card folder you want. This will display the song number and song name of the first song in the folder you selected.
- 5 Use the ( ( ✓, ∧ ) buttons to select the song you want.
- **6** Press the **6** (**PLAY/STOP**) button.

This will start playback.

- Each press of **(PLAY/STOP)** starts and stops playback.
- Fast forward, fast reverse, tempo changes, and other operations are the same as those during playback of a user song in Digital Piano memory. For details, see "Listening to Songs Loaded from an External Source" (page E-25).
- 7 To quit memory card data playback, press the (CARD/INTERNAL) button.

#### Playing Back All of the Songs in a Folder

Use the procedure below to select one of the four folders on a memory card and play back all of the songs in the folder in succession.

- 1 While holding down the (PART) button, press the (PLAY/STOP) button.
  - This will start tone demo tune playback (page E-24).
- 2. Press the **(CARD/INTERNAL)** button.

This will switch from tone demo tune playback to card tune playback.

- While playback is in progress, you can use the through buttons (Folder A through Folder D) to switch playback to another folder.
- To stop playback, press the **(PLAY/STOP)** button.

## Assigning a Different Folder to a Folder Selection Button

You can use the following procedure to assign different folders to folder selection buttons **(B)**, **(D)**, and **(B)**.

- While holding down the (FUNCTION) button, press the folder selection button ((8), or (6)) whose folder assignment you want to change.
  - This displays the folder assignment screen for the button you press.
- 2. Use the **()** (**√**, **∧**) buttons to select the folder you want to assign to the button.
  - You can select any folder on the memory card.
- **3.** After selecting a folder, you can rename it if you want.
  - Perform steps 6 through 8 of the procedure under "Renaming a Memory Card File" (page E-48) to rename the folder.

#### Saving Data to Digital Piano Memory (Internal Area) Instead of a Memory Card

Even when you do not have a memory card loaded in the Digital Piano's memory card slot, you can save up to about 16MB of data in the Digital Piano's internal memory area. You also can load and delete internal memory area data using the same procedures that you use with a memory card.

- **1.** Remove the memory card from the Digital Piano's memory card slot (page E-45).
  - Removing the memory card from the slot enables internal memory area data operations (save, load, delete, rename, playback).

To do this	Perform this operation
Save data to the internal memory area	From step 2 under "Saving Digital Piano Data to a Memory Card" on page E-46
Load data from the internal memory area	From step 2 under "Loading Data from a Memory Card" on page E-47
Delete data from the internal memory area	From step 2 under "Deleting Memory Card Data" on page E-47
Rename a file in the internal memory area	From step 2 under "Renaming a Memory Card File" on page E-48
Play back a song in the internal memory area	From step 3 under "Playing Back a Song from a Memory Card" on page E-48  • The operation in step 4 of the above procedure is not possible in the case of internal memory area song playback.

## **Error Messages**

One of the error messages below appears on the display when a problem occurs.

• All mentions of "memory card" in the following table refer to an SD memory card.

Display Message	Cause	Required Action		
Convert	There is not enough Digital Piano memory available to convert a recorder song (page E-34) to SMF data and store it on the memory card.	Reduce the size of the recorder song data by deleting unneeded tracks (page E-37), if there are any.		
Format	The current memory card format is not compatible with this Digital Piano.	1. Format the memory card on the Digital Piano (page E-45).		
	2. The memory card capacity is greater than 2GB.	2. Use a memory card with a capacity of 2GB or less.		
	3. There is something wrong with the memory card.	3. Use a different memory card.		
MediaFull	There is not enough room available on the memory card.	1. Delete some of the files on the memory card to make room for new data (page E-47), or use a different card.		
	There is not enough room available in Digital Piano memory.	2. Delete some or all user data from Digital Piano memory to make room for new data.		
Media R/W	Memory card data is corrupted.	Use a different memory card.		
	2. Digital Piano memory is corrupted.	<ul> <li>2. Back-up Digital Piano memory data by copying it to your computer, and then turn the Digital Piano off and then back on again.</li> <li>Note that you may not be able to back-up Digital Piano data in certain cases.</li> </ul>		
No Card	The memory card is not loaded correctly in the Digital Piano's memory card slot.	Correctly load the memory card into the memory card slot.		
	2. The memory card was removed while some operation was in progress.	Do not remove the memory card while any operation is in progress.		
No Data	You tried to save a Digital Piano user area (user rhythm, user rhythm song, etc.) that does not contain any data to the memory card.	Select a user area that contains data.		
No File	There is no MUSICDAT folder (page E-46) on the memory card.	Create a MUSICDAT folder on the memory card or format the memory card on the Digital Piano (page E-45).		
	2. There is no loadable or playable data in the MUSICDAT folder, or there is no playable data in a song playback folder (MUSIC_B, etc.)	2. Move the file you want to load or play into the memory card's MUSICDAT folder. For song playback, you can place the song data into any one of the following folders: MUSIC_B, MUSIC_C, or MUSIC_D.		
Not SMF01	You are attempting to play back SMF Format 2 song data.	This Digital Piano supports playback of SMF Format 0 or Format 1 only.		
Protect	The memory card is write-protected.	Use the memory card's write protect switch to enable writing.		
ReadOnly	A read-only file with the same name you are trying to use is already stored on the memory card.	<ul> <li>Use a different name to save the new file.</li> <li>Remove the read-only attribute from the existing file and overwrite it with the new file.</li> <li>Use a different memory card.</li> </ul>		
SizeOver	1. The data on the memory card is too big to play.	This Digital Piano supports playback of song data files with a maximum size of about 320 kbytes.		
	2. The data you are trying to load is too large.	The following is the maximum data size (per data item) when loading data into Digital Piano memory.     User rhythm: Approximately 40KB     User Song: 320KB     User Music Preset: Approximately 8KB		
WrongDat	1. The memory card data is corrupted.	_		
	2. The memory card contains data that is not supported by this Digital Piano.			

## **Connecting to a Computer**

You can connect the Digital Piano to a computer and exchange MIDI data between them. You can send play data from the Digital Piano to music software running on your computer, or you can send MIDI data from your computer to the Digital Piano for playback.

# Minimum Computer System Requirements

The following shows the minimum computer system requirements for sending and receiving MIDI data. Check to make sure that your computer complies with these requirements before connecting the Digital Piano to it.

#### Operating System

Windows® XP (SP2 or later)\*1

Windows Vista® \*2

Windows® 7 \*3

Mac OS® X (10.3.9, 10.4.11, 10.5.8 or later, 10.6.6 or later)

\*1: Windows XP Home Edition Windows XP Professional (32-bit)

\*2: Windows Vista (32-bit)

\*3: Windows 7 (32-bit, 64-bit)

#### • USB port

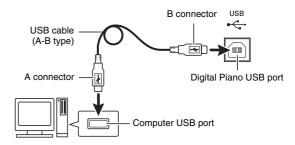
#### MPORTANT!

 Never connect to a computer that does not conform to the above requirements. Doing so can cause problems with your computer.

# **Connecting the Digital Piano** to Your Computer

#### MPORTANT!

- Make sure you follow the steps of the procedure below exactly. Connecting incorrectly can make data send and receive impossible.
- **1** Turn off the Digital Piano and then start up your computer.
  - Do not start up the music software on your computer yet!
- 2. After starting up your computer, use a commercially available USB cable to connect it to the Digital Piano.



- 3. Turn on the Digital Piano.
  - If this is the first time you are connecting the Digital Piano to your computer, the driver software required to send and receive data will be installed on your computer automatically.
- **4.** Start up your computer's music software.
- 5. Configure the music software settings to select one of the following as the MIDI device.

CASIO USB-MIDI : (For Windows Vista, Windows 7, Mac OS X)

USB Audio Device: (For Windows XP)

• For information about how to select the MIDI device, see the user documentation that comes with the music software you are using.

#### MPORTANT!

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

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- Once you are able to connect successfully, there is no problem with leaving the USB cable connected when you turn off your computer and/or Digital Piano.
- This Digital Piano conforms to General MIDI Level 1 (GM).
- For detailed specifications and connections that apply to MIDI data send and receive by this Digital Piano, see the latest support information provided by the website at the following URL. http://world.casio.com/

#### **Using MIDI**

#### What is MIDI?

The letters MIDI stand for Musical Instrument Digital Interface, which is the name of a worldwide standard for digital signals and connectors that makes it possible to exchange musical data between musical instruments and computers (machines) produced by different manufacturers.

For details about the MIDI specifications of this Digital Piano, see the "MIDI Implementation" document at the website located at the URL below.

#### http://world.casio.com/



- You can alter the Digital Piano's MIDI setup by changing the MIDI data send channel or other settings. For details, see "MIDI Group" (page E-42).
- Use a separately available or commercially available MIDI cable to connect the MIDI terminals of your Digital Piano and another electronic musical instrument for exchange of MIDI data.

# **Transferring Data between the Digital Piano and a Computer**

You can use the procedure below to transfer edited Auto Accompaniment data, recorder data, and other data from the Digital Piano to a computer for storage. You also can transfer standard MIDI files (SMF), as well as Auto Accompaniment data you downloaded from the CASIO website from your computer to Digital Piano memory.

#### ■ Data Types Supported for Data Transfer

The types of data that can be exchanged with a computer are the same as those that can be saved to an SD memory card from the Digital Piano (page E-44).\*

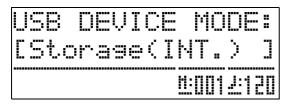
\* Recorder songs (page E-34) cannot be converted to SMF data for storage on a computer.

#### IMPORTANT!

- Turning off the Digital Piano while data is being saved or loaded can cause all data currently stored in Digital Piano memory (recorded songs, etc.) to be deleted. Take care so power is not turned off accidentally during data save and load operations. If data is deleted, it will take longer than normal for the Digital Piano to power up the next time you turn it on (page E-9).
- 1 Remove the memory card from the Digital Piano's memory card slot (page E-45).
  - You will not be able to transfer data between the Digital Piano and a computer if a card is in the memory card slot.
- 2. Perform steps 1 through 3 under "Connecting the Digital Piano to Your Computer" to connect the piano to your computer (page E-51).

# 3. While holding down the (FUNCTION) button, press the (USB DEVICE MODE) button.

This will enter the storage mode, which enables data transfer with the connected computer. The **(FUNCTION)** button lamp will flash and the display will appear as shown below.

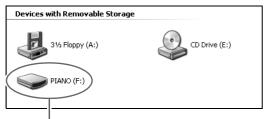


- To exit the storage mode at any time, press the **®** (**FUNCTION**) button. This is the only button operation that is supported while the Digital Piano is in the storage mode.
- You will not be able to enter the storage mode while any one of the following operations is in progress.
   Metronome, Auto Accompaniment, song playback, recorder (on), Auto Accompaniment editing, Music Preset editing, data transfer between the Digital Piano and card

# **4.** If your computer is running Windows XP, double-click "My Computer".\*

Under "Devices with Removable Storage", you should be able to see a folder representing Digital Piano memory or the memory card loaded in the Digital Piano (see below).

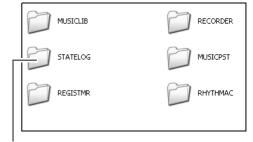
\* Windows Vista, Windows 7: Double-click "Computer". Mac OS: Skip step 4 and double-click "PIANO" on your Mac desktop.



PIANO drive (Digital Piano memory)

#### 5. Double-click "PIANO".

You now should see five data folders, one for each data type.



This folder is not a data folder. You should not try to use it for normal Digital Piano operation.

# 6. Referring to the table below, open the folder that corresponds to the type of data you want to transfer.

To load this type of data	Open this data folder	Data File Name				
User rhythms (page E-21)	RHYTHMAC	BIDRHYnn.AC7 (nn: 01 to 10)				
User songs (page E-25)	MUSICLIB	BIDSNGnn.MID (nn: 01 to 10) (SMF Format 0 or Format 1) BIDSNGnn.CM2 (nn: 01 to 10) (CASIO format)				
User Music Presets (page E-28)	MUSICPST	BIDMPSnn.MPS (nn: 01 to 50)				
Recorder songs (page E-34)	RECORDER	BIDRECnn.CSR (nn: 01 to 05)				
Registration (page E-32)	REGISTMR	BIDREGAL.CR6				

 Data types and contents are the same as those when saving Digital Piano data to or loading it from an SD memory card. See "Using a Memory Card" (page E-44) for more information.

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- 7 File name extensions (.MID, .CM2, etc.) are not displayed under initial default Windows settings. Perform the procedure below to turn on display of file name extensions.
  - (1) Open any one of the folders shown above.
  - (2) Perform one of the following operations to display folder information.
    - Windows XP:
       On the [Tools] menu at the top of the folder window, select [Folder Options].
    - Windows Vista, Windows 7:
       On the left side of the folder window, click
       [Organize] and then select [Folder and Search Options].
  - (3) On the Folder Information window, click the [View] tab.
  - (4) Under "Advanced Settings", clear the "Hide extensions for known file types" check box and then click [OK].
- **8.** After opening a data folder, perform either of the following operations to transfer data.
  - 8-1. To transfer data from Digital Piano memory to a computer, perform the required operation on your computer to copy the data from the Digital Piano folder you opened in step 6 of this procedure to another location on your computer.
  - 8-2. To load data from your computer to Digital Piano memory, first copy the data you want to load to the data folder you opened. Next, rename the file as shown in the "Data File Name" \* column in the table under step 6 of this procedure.
  - \* The value you assign for "nn" in the data file name in this case specifies the user number (user rhythm, user song, recorder song, user preset) you want the data to be assigned to.

Example: Renaming downloaded song data to BIDSNG04.CM2 to the MUSICLIB folder will make the data user song 004.

- Press the (FUNCTION) button to exit the storage mode.
  - If you are using a Macintosh, drag the PIANO folder to the Trash and then press the Digital Piano's (FUNCTION) button.

#### <u>IMPORTANT!</u>

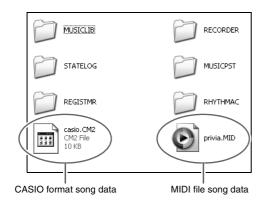
 The message "ERROR, DATA EXCHANGE" will appear on the display if a problem occurs during data transfer. If this happens, check the message in the "STATELOG" folder (page E-53) on the "PIANO" drive. Next find the same message in the table on page E-50 of this manual to determine the cause of the problem and what action you need to take to avoid it.

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# Playing Back User Song Data by Copying It to the PIANO Drive

You can use the procedure below at any time to copy user song data to the PIANO drive (without putting it in the MUSICLIB folder) for simplified playback on the Digital Piano.

• When you copy a user song data file to the MUSICLIB folder, you need to rename it according to specified format (page E-53, step 6). You do not need to rename the file if you use the procedure below.



- 1 Perform the previous procedure to copy the user song data file to the PIANO drive.
- 2. Press the (CARD/INTERNAL) button.

  This will cause the button's lamp to light and will the display the song number and song name of the first song on the PIANO drive.
- 3. Use the **()** (**∨**, **∧**) buttons to select the song you want to play.
- 4. Press the **(PLAY/STOP)** button.

This starts playback of the selected song.

- Each press of the **(PLAY/STOP)** button toggles between play and stop.
- Fast forward, fast reverse, tempo change, and other operations are the same as those during playback of a loaded user song and a song file on a memory card.
- **5.** When you are finished playing back songs, press the **(CARD/INTERNAL)** button.

# Using Your Digital Piano as a Memory Card Reader

You can display the contents of the memory card currently loaded in the Digital Piano's card slot and perform copy, delete, and other card operations from your computer.

- Insert the memory card into the Digital Piano's memory card slot.
- 2. Perform the procedure starting from step 2 on page E-52.

In step 4 of the procedure, "SD\_MMC" will appear in place of "PIANO". You can double-click "SD\_MMC" to display the contents of the card loaded in the Digital Piano card slot, and change it as you like.

## ■ Using Auto Accompaniment Data from the CASIO Website

You can download other model Auto Accompaniment data from the "Internet Data Expansion System" of the CASIO Music Site (<a href="http://music.casio.com/">http://music.casio.com/</a>) and transfer it to Digital Piano memory.



 Since the accompaniment data is for other models, you may experience some abnormalities when playing it on this model.

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# Reference

## **Troubleshooting**

Problem	Cause	Action	See Page
No sound is produced when I press a keyboard key.	The <b>VOLUME</b> controller is set to "MIN".	Rotate the <b>VOLUME</b> controller more towards "MAX".	ℱ E-9
	Headphones or an adaptor plug is plugged into one of the <b>PHONES</b> jacks.	Disconnect whatever is connected to the PHONES jack.	₹ E-6
The pitch of the Digital Piano is off.	The Digital Piano's key setting is something other than "00".	Change the key setting to "00", or turn Digital Piano power off and then back on again.	ℱ E-41
	2. Digital Piano tuning is incorrect.	Adjust Digital Piano tuning, or turn the piano off and then back on again.	ℱ E-41
	A non-standard temperament setting is being used.	Change the temperament setting to "00:Equal", which is the standard modern tuning.	ℱ E-41
	4. Octave shift is enabled.	4. Change the octave shift setting to 0.	ℱ E-12
Tones and/or effects sound strange. Turning power off and then back on again does not eliminate the problem.	The "Setting Backup" feature is turned on.	Turn off "Setting Backup". Next, turn power off and then back on again.	ℱ E-43
Example: Note intensity does not change even though I alter key pressure.			
I cannot transfer data after connecting the Digital Piano to a computer.		Check to make sure that the USB cable is connected to the Digital Piano and computer, and that the correct device is selected with your computer's music software.      Turn off the Digital Piano and then exit the	☞ E-51
		music software on your computer. Next, turn the Digital Piano back on and then restart the music software on your computer.	
I cannot record chord accompaniment data on my computer.	Accomp MIDI Out is turned off.	Turn on Accomp MIDI Out.	ℱ E-42
I cannot store data to a memory card or load data from a memory card.	_	See "Error Messages" on page E-50.	_
Playback stops part way through while transferring song data from my computer.	Digital noise from the USB cable or power cord caused data communication your computer and Digital Piano to be interrupted.	Stop song playback, disconnect the USB cable from the Digital Piano, and then reconnect it. Next, try playing back the song again. If this does not solve the problem, quit the MIDI software you are using, disconnect the USB cable from the Digital Piano, and then reconnect it. Next, restart the MIDI software and then try playing back the song again.	<b>ℱ</b> E-51
A tone's quality and volume sounds slightly different depending where it is played on the keyboard.	* Multiple digital samples are taken for th	sampling process,* and does not indicate malfunct be low range, middle range, and high range of the o ere may be a very slight difference in tonal quality a	riginal
When I press a button, the note that is sounding cuts out momentarily or there is a slight change in how effects are applied.	other functions can cause such phenomer not indicate malfunction.	ng with the Duet Mode, Auto Accompaniment, the r na when the Digital Piano switches internal tone effe	ects. It does
Even though I play on different ranges of the keyboard, the notes do not change octaves.	note or high note. With such a tone, the n lowest possible note, and the highest octa	rhich means that octaves change normally up to a coordinate of the lowest octave will be repeated to the left ave will be repeated to the right of the highest possiphe original musical instrument for each tone, and do	of the ble note.

## **Product Specifications**

Model	PX-330BK/PX-330WE
Keyboard	88-key piano keyboard, with Touch Response (3 types)
Maximum Polyphony	128 notes
Tones	250 (with Layer and Split)
Effects	Reverb (4 types), Chorus (4 types), Brilliance (–3 to 0 to 3), Acoustic Resonance
Metronome	<ul> <li>Beats per measure: 0, 2, 3, 4, 5, 6</li> <li>Tempo Range: 20 to 255</li> </ul>
Duet	Adjustable tone range: 0 to 3 octaves for the left keyboard; –4 to –1 octaves for the right keyboard
Auto Accompaniment	<ul> <li>Built-in Rhythms: 180</li> <li>User Rhythms: Up to 10 (Approximately 40KB* maximum per rhythm)</li> <li>One Touch Presets: 180 types</li> <li>Auto Harmonize: 12 types</li> </ul>
Demo Songs	8 songs (tone demo songs)
User Songs	Up to 10 songs (320KB* maximum per song)
Music Presets	Built-in Presets: 300 User Presets: Up to 50 (Approximately 8KB* maximum per preset)
Registration	(4 rhythm areas + 8 tone areas) × 8 banks
Recorder	<ul> <li>Functions: Real-time recording, playback</li> <li>Number of Songs: 5</li> <li>Number of Tracks: 17 (System Track + Tracks 01 through 16)</li> <li>Capacity: Approximately 50,000 notes total (Up to approximately 10,000 notes per song)</li> <li>Punch-in recording</li> </ul>
Pedals	Damper, Soft/Sostenuto (switchable)
Other Functions	<ul> <li>Transpose: ±1 octave (-12 to 00 to 12)</li> <li>Tuning: A4 = 440.0 Hz ±99 cents</li> <li>Octave Shift: ±2 octaves</li> <li>Temperaments: 17 types</li> <li>Stretch Tune</li> <li>Panel Lock</li> </ul>
MIDI	16 multi-timbre received, GM Level 1 standard
Pitch Bend Wheel	Pitch Bend Range: 00 to 12 semitones
SD Memory Card	<ul> <li>SD memory card slot</li> <li>Supported SD Memory Cards: Up to 2GB</li> <li>Functions: SMF playback, file storage, file recall, card format</li> </ul>
Inputs/Outputs	<ul> <li>PHONES jacks: Stereo mini jacks × 2</li> <li>Pedal Jacks: Standard jacks × 2</li> <li>MIDI OUT/IN terminals</li> <li>LINE OUT R, L/MONO jacks: Standard jacks × 2</li></ul>
	$[13cm \times 6cm (rectangular)] \times 2 + \phi 5cm \times 2 (Output: 8.0W + 8.0W)$
Speakers	[13011 $\times$ 0011 (rectangular)] $\times$ 2 + $\varphi$ 3011 $\times$ 2 (Output: 0.000 + 0.000)
Speakers Power Requirements	AC Adaptor: AD-A12150LW
•	
Power Requirements	AC Adaptor: AD-A12150LW

<sup>\*</sup> Based on 1KB = 1024bytes, 1MB =  $1024^2$ bytes

<sup>•</sup> Specifications and designs are subject to change without notice.

#### **Operating Precautions**

Be sure to read and observe the following operating precautions.

#### **■** Location

Avoid the following locations for this product.

- Areas exposed to direct sunlight and high humidity
- Areas subjected to temperature extremes
- Near a radio, TV, video deck, or tuner
- The above devices will not cause malfunction of the product, but the product can cause interference in the audio or video of a nearby device.

#### **■** User Maintenance

- Never use benzine, alcohol, thinner, or other chemical agents to clean the product.
- To clean the product or its keyboard, wipe with a soft cloth moistened in a weak solution of water and a mild neutral detergent. Wring all excess moisture from the cloth before wiping.

#### ■ Included and Optional Accessories

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

#### ■ Weld Lines

Lines may be visible on the exterior of the product. These are "weld lines" that result from the plastic molding process. They are not cracks or scratches.

#### ■ Musical Instrument Etiquette

Always be aware of others around you whenever using this product. Be especially careful when playing late at night to keep the volume at levels that do not disturb others. Other steps you can take when playing late at night are closing windows and using headphones.

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#### ■ AC Adaptor Handling Precautions

- Use a power outlet that is easily accessible so you can unplug the AC adaptor when a malfunction occurs or whenever else you need to do so.
- The AC adaptor is intended for indoor use only. Do not use it where it might be exposed to splashing or moisture. Do not place any container, such as a flower vase, that contains liquid on the AC adaptor.
- Store the AC adaptor in a dry place.
- Use the AC adaptor in an open, well-ventilated area.
- Never cover the AC adaptor with newspaper, a table cloth, a curtain, or any other similar item.
- Unplug the AC adaptor from the power outlet if you do not plan to use the Digital Piano for a long time.
- Never try to repair the AC adaptor or modify it in any way.
- AC adaptor operating environment Temperature: 0 to 40°C Humidity: 10% to 90% RH

Output polarity:  $\diamondsuit$ 

#### **AC Adaptor Handling Precautions**

#### Model: AD-A12150LW

- 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.
- 7. 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.



# Appendix/Apéndice

## Tone List/Lista de tonos

GRAND PIANO MODERN	
002   002   GRAND PIANO   0   50	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
002	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
003	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
004	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
O06	0 0 0 0 0 0 0 0
ORAND PIANO CLASSIC	0 0 0 0 0 0 0
001	0 0 0
002         008         MELLOW PIANO         0         51           003         009         HONKY-TONK         3         48           004         010         OCTAVE PIANO         3         49           005         011         STRINGS PIANO         0         52           006         012         PIANO PAD         0         53           ELEC PIANO           001         013         ELEC.PIANO 1         4         48           002         014         ELEC.PIANO 2         5         48           003         015         60'S E.PIANO         4         51           004         016         E.GRAND 80         2         48           005         017         DYNO ELEC.PIANO         4         49           006         018         FM ELEC.PIANO         5         49           007         019         MELLOW E.PIANO         4         50           008         020         POP ELEC.PIANO         5         50           009         021         SYNTH-STR.E.PIANO         4         52           VIBES/CLAVI           001         022         VIBRAPHONE         11	0 0 0
003         009         HONKY-TONK         3         48           004         010         OCTAVE PIANO         3         49           005         011         STRINGS PIANO         0         52           006         012         PIANO PAD         0         53           ELEC PIANO           001         013         ELEC.PIANO 1         4         48           002         014         ELEC.PIANO 2         5         48           003         015         60'S E.PIANO         4         51           004         016         E.GRAND 80         2         48           005         017         DYNO ELEC.PIANO         4         49           006         018         FM ELEC.PIANO         5         49           007         019         MELLOW E.PIANO         4         50           008         020         POP ELEC.PIANO         5         50           009         021         SYNTH-STR.E.PIANO         4         52           VIBES/CLAVI           001         022         VIBRAPHONE         11         48           002         023         CLAVI         7	0
005         011         STRINGS PIANO         0         52           006         012         PIANO PAD         0         53           ELEC PIANO           001         013         ELEC.PIANO 1         4         48           002         014         ELEC.PIANO 2         5         48           003         015         60'S E.PIANO         4         51           004         016         E.GRAND 80         2         48           005         017         DYNO ELEC.PIANO         4         49           006         018         FM ELEC.PIANO         5         49           007         019         MELLOW E.PIANO         4         50           008         020         POP ELEC.PIANO         5         50           009         021         SYNTH-STR.E.PIANO         4         52           VIBES/CLAVI           001         022         VIBRAPHONE         11         48           002         023         CLAVI         7         48           003         024         HARPSICHORD         6         48	0
DOG   D12   PIANO PAD   D   D33	
DOI	O
001   013   ELEC.PIANO 1   4   48	
002         014         ELEC.PIANO 2         5         48           003         015         60'S E.PIANO         4         51           004         016         E.GRAND 80         2         48           005         017         DYNO ELEC.PIANO         4         49           006         018         FM ELEC.PIANO         5         49           007         019         MELLOW E.PIANO         4         50           008         020         POP ELEC.PIANO         5         50           009         021         SYNTH-STR.E.PIANO         4         52           VIBES/CLAVI           001         022         VIBRAPHONE         11         48           002         023         CLAVI         7         48           003         024         HARPSICHORD         6         48           004         025         COUPLED         6         49	
003         015         60'S E.PIANO         4         51           004         016         E.GRAND 80         2         48           005         017         DYNO ELEC.PIANO         4         49           006         018         FM ELEC.PIANO         5         49           007         019         MELLOW E.PIANO         4         50           008         020         POP ELEC.PIANO         5         50           009         021         SYNTH-STR.E.PIANO         4         52           VIBES/CLAVI           001         022         VIBRAPHONE         11         48           002         023         CLAVI         7         48           003         024         HARPSICHORD         6         48           004         025         COUPLED         6         49	
005         017         DYNO ELEC.PIANO         4         49           006         018         FM ELEC.PIANO         5         49           007         019         MELLOW E.PIANO         4         50           008         020         POP ELEC.PIANO         5         50           009         021         SYNTH-STR.E.PIANO         4         52           VIBES/CLAVI           001         022         VIBRAPHONE         11         48           002         023         CLAVI         7         48           003         024         HARPSICHORD         6         48           004         025         COUPLED         6         49	
006         018         FM ELEC.PIANO         5         49           007         019         MELLOW E.PIANO         4         50           008         020         POP ELEC.PIANO         5         50           009         021         SYNTH-STR.E.PIANO         4         52           VIBES/CLAVI           001         022         VIBRAPHONE         11         48           002         023         CLAVI         7         48           003         024         HARPSICHORD         6         48           004         025         COUPLED         6         49	
007	
008         020         POP ELEC.PIANO         5         50           009         021         SYNTH-STR.E.PIANO         4         52           VIBES/CLAVI           001         022         VIBRAPHONE         11         48           002         023         CLAVI         7         48           003         024         HARPSICHORD         6         48           004         025         COUPLED         6         49	
009         021         SYNTH-STR.E.PIANO         4         52           VIBES/CLAVI           001         022         VIBRAPHONE         11         48           002         023         CLAVI         7         48           003         024         HARPSICHORD         6         48           004         025         COUPLED         6         49	
001         022         VIBRAPHONE         11         48           002         023         CLAVI         7         48           003         024         HARPSICHORD         6         48           004         025         COUPLED         6         49	
002         023         CLAVI         7         48           003         024         HARPSICHORD         6         48           004         025         COUPLED         6         49	
003 024 HARPSICHORD 6 48	
004 025 COUPLED 6 49	
HANFOICHUND	
005 026 MARIMBA 12 48	
006 027 CHORUS VIBRAPHONE 11 49	
ORGAN	
001         028         ROCK ORGAN 1         16         49           002         029         JAZZ ORGAN         17         48	
003 030 DRAWBAR ORGAN 16 48	
004 031 ROTARY DRAWBAR 16 50	
005 032 ROTARY ORGAN 16 51	
006 033 PERC.ORGAN 17 49	
007         034         70'S ORGAN         17         50           008         035         OVERDRIVE ORGAN         16         52	
009 036 TREMOLO ORGAN 16 53	
010 037 ROCK ORGAN 2 18 48	
011 038 ELEC.ORGAN 16 54	
012 039 CHURCH ORGAN 19 48	
013 040 CHAPEL ORGAN 19 49	
STRINGS/SYNTH-PAD	
002 042 STRING ENSEMBLE 48 48	
003 043 SYNTH-STRINGS 50 48	
004 044 70'S SYNTH-STR. 50 49	
005 045 80'S SYNTH-STR. 50 50	
006         046         VIOLIN SECTION         40         48           007         047         CHOIR         52         48	
007 047 CHOIR 52 48 008 048 SYNTH-VOICE 54 48	
009 049 SYNTH-PAD 90 48	
010 050 FANTASY 88 48	
011 051 NEW AGE 88 49	
012 052 WARM PAD 89 48	
013         053         WARM VOX         89         49           014         054         POLYSYNTH PAD         90         49	
015 055 ATMOSPHERE PAD 99 48	
BASS/GUITAR	
001 056 ACOUSTIC BASS 32 48	
002 057 RIDE BASS 32 49	
003	
004 059 FINGERED BASS 2 33 49 005 060 FINGERED BASS 3 33 50	
006 061 PICKED BASS 34 48	
007 062 TRANCE BASS 38 48	
008 063 NYLON STR.GUITAR 24 48	

Company   Comp							
Number   N	Group	Group			Program		
Number   N	Name/	Number/		Tone Name/	Change/		
Sequence			Número				Resonancia
			secuencial				acústica
011 086 STEEL STR.GUITAR 3 25 50 0 1012 067 JAZZ.GUITAR 26 48 1013 068 CLEAN GUITAR 27 49 1014 069 CHORUS CLEAN GUITAR 27 49 1015 070 CRUNCH ELEC.GUITAR 27 50 1016 071 CRUNCH ELEC.GUITAR 27 50 1016 071 CRUNCH ELEC.GUITAR 27 50 1017 072 OVERDRIVE GUITAR 29 48 1017 072 074 BREATHY ALTO SAX 65 49 103 075 ALTO SAX 65 49 103 075 ALTO SAX 65 49 103 075 ALTO SAX 65 48 1005 077 CLARINET 71 48 1006 078 TENOR SAX 65 48 1006 078 TENOR SAX 65 48 1006 078 FLUTE 73 48 1007 077 079 TRUMPET 56 48 1009 081 STEREO BRASS 61 48 1010 082 BRASS SECTION 61 49 1011 083 SYNTH-BRASS 62 49 1013 085 SAW LEAD 81 48 1010 082 BRASS SECTION 61 49 1011 083 SYNTH-BRASS 62 49 1013 085 SAW LEAD 81 48 1010 085 SAW LEAD 81 49 1015 087 SQUARE LEAD 80 48 1016 088 ER HU 110 56 1017 089 YANG GIN 2 15 57 1019 091 DIZI 72 56 1018 090 YANG GIN 2 15 57 1019 091 DIZI 72 56 1019 092 ZHENG 107 56 1019 092 SARON IN 111 57 002 002 204 SUO NA 1111 57 002 002 002 ZHENG 107 56 100 HARDON IN 111 55 50 002 002 004 SARON IN 111 57 002 005 SARON IN 111 50 SARON IN 111 57 002 005 SARON IN 111 57 002 005 SARON IN 111 57 003 SARON IN 111 50 SARON IN 111 50 SARON IN 111 50 SARON IN 111 50 SARON IN 11		009	064	STEEL STR.GUITAR 1	25		
012   057		010	065	STEEL STR.GUITAR 2	25	49	
013 088 CLEAN GUITAR 27 49 015 016 074 689 CHORUS CLEAN GUITAR 1 27 48 015 070 CRUNCH ELEC. GUITAR 1 27 50 017 071 CRUNCH ELEC. GUITAR 2 27 51 017 072 OVERDRIVE GUITAR 2 27 51 017 072 OVERDRIVE GUITAR 2 27 51 017 072 074 075 075 075 075 075 075 075 075 075 075		011	066	STEEL STR.GUITAR 3	25	50	
014 089 CHORUS CLEAN GUITAR 27 48   015 070 CRUNCH ELEC GUITAR 2 77 51   016 071 ORUNCH ELEC GUITAR 2 77 51   017 072 OVERDRIVE GUITAR 2 9 48   VARIOUS(MITONES)   001 073 BREATHY ALTO SAX 65 49   002 074 BREATHY TENOR SAX 66 49   003 075 ALTO SAX 65 48   004 076 TENOR SAX 66 49   005 077 CLARINET 71 48   006 078 FLUTE 73 48   007 079 TRUMPET 55 48   009 081 STEREO BRASS 61 49   009 081 STEREO BRASS 61 49   009 081 STEREO BRASS 61 49   001 082 BRASS SECTION 61 49   011 083 SYNTH-BRASS 62 49   012 084 80°S SYNTH-BRASS 62 49   013 085 SAW LEAD 81 49   016 088 ER HU 110 56   017 089 VANG GIN 1 15 56   017 089 VANG GIN 1 15 56   019 091 DI ZI 72 56   020 092 ZHENG 107 56   021 093 SHENG 109 56   022 094 SUO NA 1111 57 56   024 096 PIPA 1 105 56   025 097 PIPA 2 105 57   026 098 STAR 104 56   027 099 TANDERN 109 56   028 099 TANDERN 109 56   029 101 SARD 109 56   020 091 DI ZI 77 56   021 093 SHENG 109 56   022 094 SUO NA 1111 57 56   024 096 PIPA 1 105 56   025 097 PIPA 2 105 57   026 098 STAR 104 56   027 099 TANDERN 109 56   029 101 SARD 109 56   020 091 SARD 109 56   021 093 SHENG 109 56   022 094 SUO NA 1111 57 56   024 096 PIPA 1 105 56   025 097 PIPA 2 105 57   026 098 STAR 104 56   027 099 TANDURA 104 56   029 101 SARTUR 15 56   030 102 SAROD 105 59   035 107 NEY 72 57   036 108 ARABIOL 109 56   037 109 GM PIANO 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
015							
O16							
017							
001   073   BREATHY ALTO SAX   65   49   002   074   BREATHY TENOR SAX   66   49   003   075   ALTO SAX   66   48   004   076   TENOR SAX   66   48   005   077   CLARINET   71   48   006   078   FLUTE   73   48   007   079   TRUMPET   56   48   008   080   TROMBONE   57   48   008   080   TROMBONE   57   48   009   081   STEREO BRASS   61   48   010   082   BRASS SECTION   61   49   011   083   SYNTH-BRASS   62   49   013   085   SAW LEAD   81   48   015   087   SAW LEAD   81   48   015   087   SAW LEAD   81   48   016   088   ER HU   110   56   017   089   YANG QIN 1   15   56   018   090   YANG QIN 2   15   57   019   091   D1Z   72   56   020   092   ZHENG   107   56   022   094   SUO NA   111   57   023   095   XIAO   77   56   025   097   PIPA 2   105   57   026   098   SITAR   104   56   022   099   TANPURA   105   56   025   097   PIPA 2   105   57   026   098   SITAR   104   56   027   099   TANPURA   104   57   026   098   SITAR   104   56   027   099   TANPURA   104   57   026   098   SITAR   104   56   027   099   TANPURA   104   57   026   098   SITAR   104   56   027   099   TANPURA   104   57   026   098   SITAR   104   56   027   099   TANPURA   104   57   026   098   SITAR   104   56   027   099   TANPURA   104   57   026   098   SITAR   104   56   027   099   TANPURA   104   57   026   098   SITAR   104   56   027   099   TANPURA   104   57   026   098   SITAR   104   56   027   099   TANPURA   104   57   026   098   SITAR   104   56   027   099   TANPURA   104   57   026   098   SITAR   104   56   027   099   TANPURA   104   57   026   098   SITAR   104   56   027   099   TANPURA   104   57   026   098   SITAR   104   56   027   027   028   036   037   038   036   037   038   036   038   038   030   03							
002         074         BREATHY TENOR SAX         66         49           003         076         ALTO SAX         65         48           004         076         TENOR SAX         66         48           005         077         CLARINET         71         48           006         078         FLUTE         73         48           007         079         TRUMPET         56         48           008         080         TROMBONE         57         48           009         081         STEREO BRASS         61         48           010         082         BRASS SECTION         61         49           011         083         SYNTH-BRASS         62         48           012         084         80'S SYNTH-BRASS         62         49           013         085         SAW LEAD         81         48           014         086         MELLOW SAW LEAD         81         48           015         087         SANG QIN 1         110         56           017         089         YANG QIN 2         15         57           019         091         D.Z         72	VARIOUS	S/GM TO	NES				
003 075 ALTO SAX 65 48   004 076 TENOR SAX 66 48   005 077 CLARINET 71 48   006 078 FLUTE 73 48   007 079 TRUMPET 56 48   008 080 TROMBONE 57 48   009 081 STEREO BRASS 61 48   010 082 BRASS SECTION 61 49   011 083 SYNTH-BRASS 62 48   012 084 80'S SYNTH-BRASS 62 49   013 085 SAW LEAD 81 48   016 086 MELLOW SAW LEAD 81 49   017 087 SQUARE LEAD 80 48   016 088 ER HU 110 56   017 089 YANG QIN 1 15 56   018 090 YANG QIN 2 15 57   020 092 ZHENG 107 56   021 093 SHENG 109 56   022 094 SUO NA 1111 57   023 095 XIAO 77 56   024 096 PI PA 1 105 56   025 097 PI PA 2 105 57   026 098 SITAR 104 56   027 099 TANPURA 104 57   028 100 HARMONIUM 20 56   029 101 SANTUR 15 56   030 102 SAROD 105 58   030 102 SAROD 105 58   030 102 SAROD 105 59   031 103 SHANAI 111 56   032 104 SARANGI 110 57   033 105 KANUN 15 56   030 102 SAROD 105 58   030 102 SAROD 105 59   031 103 SHANAI 111 56   032 104 SARANGI 110 57   033 1103 SHANAI 111 56   030 112 SAROD 105 59   031 103 SHANAI 111 56   032 104 SARANGI 110 57   033 110 SARANGI 110 57   034 106 OUD 105 59   035 107 NEY 72 57   036 108 ARABICORGAN 16 56   037 109 GM PIANO 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		001	073		65	49	
004 076 TENOR SAX 66 48 005 077 CLARINET 71 48 006 078 FLUTE 73 48 007 079 TRUMPET 56 48 008 080 TROMBONE 57 48 009 081 STEREO BRASS 61 48 010 082 BRASS SECTION 61 49 011 083 SYNTH-BRASS 62 48 012 084 085 SYNTH-BRASS 62 49 013 085 SAW LEAD 81 48 016 088 ER HU 110 56 017 089 YANG QIN 1 15 56 018 099 YANG QIN 2 15 57 019 091 DI ZI 72 56 020 092 ZHENG 107 56 021 093 SHENG 109 56 022 094 SUO NA 1111 57 023 095 XIAO 77 56 024 096 PI PA 1 105 56 025 097 PI PA 2 105 57 026 098 SITAR 104 57 027 099 TANPURA 104 57 028 109 TANPURA 104 57 029 101 SANTUR 15 58 030 102 SAROD 105 58 031 103 SHANAI 111 56 032 104 SAROD 105 58 033 105 KANUN 15 59 034 106 OUD 105 59 035 110 GM PIANO 1 15 59 036 107 NEY 72 57 037 099 TANPURA 104 56 027 099 TANPURA 104 57 028 100 HARNONIUM 20 56 029 101 SANTUR 15 58 030 102 SAROD 105 58 031 103 SHANAI 111 56 032 104 SARANGI 110 57 033 105 KANUN 15 59 034 106 OUD 105 58 035 117 NEY 72 57 036 108 ARABIC ORGAN 16 56 037 109 GM PIANO 1 105 59 035 110 GM PIANO 1 105 59 035 110 GM PIANO 1 105 59 036 108 ARABIC ORGAN 16 56 037 109 GM PIANO 1 105 59 035 110 GM PIANO 1 105 59 036 108 ARABIC ORGAN 16 56 037 109 GM PIANO 1 105 59 038 110 GM PIANO 1 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
005 077 CLARINET 71 48   006 078 FLUTE 73 48   007 079 TRUMPET 56 48   008 080 TROMBONE 57 48   009 081 STEREO BRASS 61 48   010 082 BRASS SECTION 61 49   011 083 SYNTH-BRASS 62 49   013 085 SAW LEAD 81 48   014 086 MELLOW SAW LEAD 81 49   015 087 SQUARE LEAD 80 48   016 088 ER HU 110 56   017 089 YANG QIN 1 15 56   018 090 YANG QIN 2 15 57   020 092 ZHENG 107 56   021 093 SHENG 107 56   022 094 SUO NA 111 57   022 094 SUO NA 111 57   023 095 XIAO 77 56   024 096 PI PA 1 105 56   025 097 PI PA 2 105 57   026 098 SITAR 104 56   027 099 TANPURA 104 56   027 099 TANPURA 104 56   029 101 SANTUR 15 58   031 103 SHANAI 111 56   032 104 SARANGI 110 57   033 155 KANUN 15 59   034 106 OUD 105 58   035 107 NEY 72 57   036 108 ARABIC ORGAN 16 56   037 109 GM PIANOI 1 15 56   039 110 SANTUR 15 58   030 102 SAROD 105 58   031 103 SHANAI 111 57   038 106 OUD 105 59   039 110 GM PIANOI 1 15 59   039 111 GM PIANO 2 1 15 57   038 108 SARANGI 110 57   038 109 GM PIANOI 1 10 57   039 110 GM PIANOI 1 10 57   039 111 GM PIANO 2 10 5 59   031 107 SANTUR 15 58   031 103 SHANAI 111 56   039 109 GM PIANOI 1 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
006 078 FLUTE 73 48 007 079 TRUMPET 56 48 008 080 TROMBONE 57 48 009 081 STEREO BRASS 61 48 010 082 BRASS SECTION 61 49 011 083 SYNTH-BRASS 62 48 012 084 80'S SYNTH-BRASS 62 49 013 085 SAW LEAD 81 48 016 088 ER HU 110 56 017 089 YANG QIN 1 15 56 018 090 YANG QIN 2 15 57 019 091 DI ZI 72 56 021 093 SHENG 109 56 021 093 SHENG 109 56 022 094 SUO NA 111 57 023 095 YIAO NA 111 57 024 096 PI PA 1 105 56 025 097 PI PA 2 105 57 026 098 SITAR 104 56 027 099 TANPURA 104 56 027 099 TANPURA 104 57 028 100 HARMONIUM 20 56 029 101 SANTUR 15 58 030 102 SAROD 105 58 031 103 SHANAI 111 56 032 104 SARANGI 110 57 033 SHENG 109 56 025 097 PI PA 2 105 57 026 098 SITAR 104 56 027 099 TANPURA 104 57 028 100 HARMONIUM 20 56 031 103 SHANAI 111 56 032 104 SARANGI 110 57 033 105 KANUN 15 59 034 106 OUD 105 59 035 107 NEY 72 57 036 108 ARABIC ORGAN 16 56 037 109 GM PIANO 1 0 0 0 0 038 110 GM PIANO 2 1 1 0 0 0 0 039 111 GM PIANO 2 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
007 079 TRUMPET 56 48 008 080 TROMBONE 57 48 009 081 STEREO BRASS 61 48 010 082 BRASS SECTION 61 49 011 083 SYNTH-BRASS 62 48 012 084 80'S SYNTH-BRASS 62 49 013 085 SAW LEAD 81 48 014 086 MELLOW SAW LEAD 81 49 015 087 SQUARE LEAD 80 48 016 088 ER HU 110 56 017 089 YANG QIN 1 15 56 018 090 YANG QIN 2 15 57 019 091 DI ZI 72 56 021 093 SHENG 107 56 021 093 SHENG 107 56 022 094 SUO NA 1111 57 023 095 XIAO 77 56 024 096 PI PA 1 105 56 025 097 PI PA 2 105 57 026 098 SITAR 104 56 027 099 TANPURA 104 57 028 100 HARMONIUM 20 56 029 101 SANTUR 15 58 030 102 SAROD 105 58 031 103 SHANAI 111 56 032 104 SARANGI 110 57 033 105 KANUN 15 59 035 107 NEY 72 57 036 108 ARABIC ORGAN 16 56 037 109 GM PIANO 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			-	-			
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012  084  80'S SYNTH-BRASS  62  49   013  085  SAW LEAD  81  48   014  086  MELLOW SAW LEAD  81  49   015  087  SQUARE LEAD  80  48   016  088  ERI HU  110  56   017  089  YANG QIN 2  15  57   019  091  DI ZI  72  56   020  092  ZHENG  107  56   021  093  SHENG  109  56   022  094  SUO NA  111  57   023  095  XIAO  77  56   025  097  PI PA 2  105  57   026  098  SITAR  104  56   027  099  TANPURA  104  56   027  099  TANPURA  104  57   028  100  HARMONIUM  20  56   029  101  SANTUR  15  58   030  102  SAROD  105  58   031  103  SHANAI  111  56   032  104  SARANGI  110  57   033  105  KANUN  15  59   034  106  OUD  105  59   035  107  NEY  72  57   036  108  ARABIC ORGAN  16  56   037  109  GM PIANO  10  0		010	082		61	49	
013							
014 086 MELLOW SAW LEAD 81 49 015 087 SQUARE LEAD 80 48 016 088 ER HU 110 56 017 089 YANG QIN 1 15 56 018 090 YANG QIN 2 15 57 019 091 DI ZI 72 56 020 092 ZHENG 107 56 021 093 SHENG 109 56 022 094 SUO NA 1111 57 023 095 XIAO 77 56 024 096 PI PA 1 105 56 025 097 PI PA 2 105 57 026 098 SITAR 104 56 027 099 TANPURA 104 57 028 100 HARMONIUM 20 56 029 101 SANTUR 15 58 030 102 SAROD 105 58 031 103 SHANAI 111 56 032 104 SARANGI 110 57 033 105 KANUN 15 59 034 106 OUD 105 59 035 107 NEY 72 57 036 108 ARABIC ORGAN 16 56 037 109 GM PIANO 1 0 0 0 038 110 GM PIANO 2 1 0 0 0 0 039 111 GM PIANO 3 2 0 0 040 112 GM PIANO 2 1 0 0 0 0 0 041 113 GM E.PIANO 1 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
015 087 SQUARE LEAD 80 48  016 088 ER HU 110 56  017 089 YANG QIN 1 15 56  018 090 YANG QIN 2 15 57  019 091 DI ZI 72 56  020 092 ZHENG 107 56  021 093 SHENG 109 56  022 094 SUO NA 111 57  023 095 XIAO 77 56  024 096 PI PA 1 105 56  025 097 PI PA 2 105 57  026 098 SITAR 104 56  027 099 TANPURA 104 57  028 100 HARMONIUM 20 56  029 101 SANTUR 15 58  030 102 SAROD 105 58  031 103 SHANAI 111 56  032 104 SARANGI 110 57  033 105 KANUN 15 59  034 106 OUD 105 59  035 107 NEY 72 57  036 108 ARABIC ORGAN 16 56  037 109 GM PIANO 1 0 0 0  039 111 GM PIANO 2 1 0 0 0  039 111 GM PIANO 1 0 0 0 0  041 113 GM EPIANO 1 4 0 0 0 0  042 114 GM EPIANO 2 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
016         088         ER HU         110         56           017         089         YANG QIN 1         15         56           018         090         YANG QIN 2         15         57           019         091         DI ZI         72         56           020         092         ZHENG         107         56           021         093         SHENG         109         56           021         093         SHENG         109         56           022         094         SUO NA         111         57           023         095         XIAO         77         56           024         096         PI PA 1         105         56           025         097         PI PA 2         105         57           026         098         SITAR         104         57           026         098         TANPURA         104         57           028         100         HARMONIUM         20         56           029         101         SANTUR         15         58           030         102         SAROD         105         59           031 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
017 089 YANG QIN 1 15 56 018 090 YANG QIN 2 15 57 019 091 DI ZI 72 56 020 092 ZHENG 107 56 021 093 SHENG 109 56 022 094 SUO NA 111 57 023 095 XIAO 77 56 024 096 PI PA 1 105 56 025 097 PI PA 2 105 57 026 098 SITAR 104 56 027 099 TANPURA 104 57 028 100 HARMONIUM 20 56 029 101 SANTUR 15 58 030 102 SAROD 105 58 031 103 SHANAI 111 56 032 104 SARANGI 110 57 033 105 KANUN 15 59 034 106 OUD 105 59 035 107 NEY 72 57 036 108 ARABIC ORGAN 16 56 037 109 GM PIANO 1 0 0 ○ 038 110 GM PIANO 1 0 ○ 039 111 GM PIANO 1 0 ○ 030 102 SAROD 105 58 031 103 SHANAI 111 56 032 104 SARANGI 110 57 033 105 KANUN 15 59 034 106 OUD 105 59 035 107 NEY 72 57 036 108 ARABIC ORGAN 16 56 037 109 GM PIANO 1 0 0 ○ 039 111 GM PIANO 2 1 0 ○ 039 111 GM PIANO 3 2 0 040 112 GM HONKY-TONK 3 0 0 041 113 GM E.PIANO 2 1 0 ○ 041 113 GM E.PIANO 1 4 0 0 042 114 GM E.PIANO 2 1 0 0 ○ 043 115 GM HARPSICHORD 6 0 0 044 116 GM CLAVI 7 0 0 045 117 GM CELESTA 8 0 0 046 118 GM CLAVI 7 0 0 047 119 GM MARIBBA 12 0 0 048 120 GM VIBRAPHONE 11 0 0 0 048 120 GM VIBRAPHONE 11 0 0 049 121 GM MARIBBA 12 0 0 049 121 GM MARIBBA 12 0 0 050 122 GM XYLOPHONE 11 0 0 051 123 GM TUBULAR BELL 14 0 0 052 124 GM DULCIMER 15 0 0 055 127 GM ORGAN 16 0 0 056 128 GM ORGAN 19 0 0 057 129 GM RED ORGAN 19 0 0 058 130 GM ACCORDION 22 0 0							
018         090         YANG QIN 2         15         57           019         091         DI ZI         72         56           020         092         ZHENG         107         56           021         093         SHENG         109         56           022         094         SUO NA         111         57           023         095         XIAO         77         56           024         096         PI PA 1         105         56           024         096         PI PA 2         105         57           026         098         SITAR         104         56           027         099         TANPURA         104         56           027         099         TANPURA         104         57           028         100         HARMONIUM         20         56           029         101         SANTUR         15         58           030         102         SAROD         105         58           031         103         SHANAII         111         56           032         104         SARANGI         110         57           033 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
019         091         DI ZI         72         56           020         092         ZHENG         107         56           021         093         SHENG         109         56           022         094         SUO NA         111         57           023         095         XIAO         77         56           024         096         PI PA 1         105         56           025         097         PI PA 2         105         57           026         098         SITAR         104         56           027         099         TANPURA         104         56           027         099         TANPURA         104         57           028         100         HARMONIUM         20         56           029         101         SARTOD         105         58           030         102         SARTOD         105         58           031         103         SHANAI         111         56           032         104         SARANGI         110         57           033         105         KANUN         15         59           034							
021 093 SHENG 109 56 022 094 SUO NA 1111 57 023 095 XIAO 77 56 024 096 PI PA 1 105 56 025 097 PI PA 2 105 57 026 098 SITAR 104 56 027 099 TANPURA 104 57 028 100 HARMONIUM 20 56 030 102 SAROD 105 58 031 103 SHANAI 111 56 032 104 SARANGI 110 57 033 105 KANUN 15 59 034 106 OUD 105 59 035 107 NEY 72 57 036 108 ARABIC ORGAN 16 56 037 109 GM PIANO 1 0 0 0 038 110 GM PIANO 2 1 0 0 0 038 111 GM PIANO 2 1 0 0 0 039 111 GM PIANO 2 1 0 0 0 040 112 GM HONKY-TONK 3 0 0 041 113 GM E.PIANO 1 4 0 0 042 114 GM E.PIANO 1 4 0 0 044 116 GM CLAVI 7 0 0 045 117 GM CELESTA 8 0 0 046 118 GM GLAVI 7 0 0 047 119 GM MARPISCHORD 11 0 0 048 120 GM VIBRAPHONE 11 0 0 049 121 GM MONKY-TONK 3 0 0 040 112 GM MARPISCHORD 6 0 0 041 113 GM GELESTA 8 0 0 042 GM SIRAPHONE 11 0 0 0 044 116 GM CLAVI 7 0 0 045 117 GM CELESTA 8 0 0 046 118 GM GLOCKENSPIEL 9 0 0 047 119 GM MUSIC BOX 10 0 0 048 120 GM VIBRAPHONE 11 0 0 050 122 GM XYLOPHONE 13 0 0 051 123 GM TUBULAR BELL 14 0 052 124 GM MARIMBA 12 0 0 053 125 GM ORGAN 1 16 0 055 127 GM ORGAN 1 16 0 055 128 GM ORGAN 1 16 0 056 128 GM ORGAN 1 16 0 057 129 GM REED ORGAN 19 0 058 130 GM ACCORDION 21 0 059 131 GM HARPNONICA 22 0 060 132 GM BANDONEON 23 0							
022         094         SUO NA         111         57           023         095         XIAO         77         56           024         096         PI PA 1         105         56           025         097         PI PA 2         105         57           026         098         SITAR         104         56           027         099         TANPURA         104         57           028         100         HARMONIUM         20         56           029         101         SANTUR         15         58           030         102         SAROD         105         58           031         103         SHANAI         111         56           032         104         SARANGI         110         57           033         105         KANUN         15         59           034         106         OUD         105         59           035         107         NEY         72         57           036         108         ARABIC ORGAN         16         56           037         109         GM PIANO 1         0         0           038		020	092	ZHENG	107	56	
023		021	093	SHENG	109	56	
024         096         PI PA 1         105         56           025         097         PI PA 2         105         57           026         098         SITAR         104         56           027         099         TANPURA         104         57           028         100         HARMONIUM         20         56           029         101         SANTUR         15         58           030         102         SAROD         105         58           031         103         SHANAI         111         56           032         104         SARANGI         110         57           033         105         KANUN         15         59           033         106         OUD         105         59           033         107         NEY         72         57           036         108         ARABIC ORGAN         16         56           037         109         GM PIANO 2         1         0         ○           038         110         GM PIANO 3         2         0         ○           040         112         GM HONKY-TONK         3         0		022	094	SUO NA	111	57	
025         097         PI PA 2         105         57           026         098         SITAR         104         56           027         099         TANPURA         104         57           028         100         HARMONIUM         20         56           029         101         SANTUR         15         58           030         102         SAROD         105         58           031         103         SHANAI         111         56           032         104         SARANGI         110         57           033         105         KANUN         15         59           034         106         OUD         105         59           035         107         NEY         72         57           036         108         ARABIC ORGAN         16         56           037         109         GM PIANO 1         0         0           038         110         GM PIANO 2         1         0         0           039         111         GM PIANO 3         2         0         0           040         112         GM HONKY-TONK         3         0							
026         098         SITAR         104         56           027         099         TANPURA         104         57           028         100         HARMONIUM         20         56           029         101         SANTUR         15         58           030         102         SAROD         105         58           031         103         SHANAI         111         56           032         104         SARANGI         110         57           033         105         KANUN         15         59           034         106         OUD         105         59           035         107         NEY         72         57           036         108         ARABIC ORGAN         16         56           037         109         GM PIANO 1         0         0           038         110         GM PIANO 2         1         0         ○           039         111         GM PIANO 3         2         0         ○           040         112         GM HONKY-TONK         3         0         ○           041         113         GM EPIANO 1							
027         099         TANPURA         104         57           028         100         HARMONIUM         20         56           029         101         SANTUR         15         58           030         102         SAROD         105         58           031         103         SHANAI         111         56           032         104         SARANGI         110         57           033         105         KANUN         15         59           034         106         OUD         105         59           035         107         NEY         72         57           036         108         ARABIC ORGAN         16         56           037         109         GM PIANO 2         1         0         ○           038         110         GM PIANO 2         1         0         ○           039         111         GM PIANO 3         2         0         ○           040         112         GM PIANO 2         5         0         ○           041         113         GM E.PIANO 2         5         0         ○         ○           043							
028         100         HARMONIUM         20         56           029         101         SANTUR         15         58           030         102         SAROD         105         58           031         103         SHANAI         111         56           032         104         SARANGI         111         56           033         105         KANUN         15         59           034         106         OUD         105         59           035         107         NEY         72         57           036         108         ARABIC ORGAN         16         56           037         109         GM PIANO 1         0         0         ○           038         110         GM PIANO 2         1         0         ○         ○           039         111         GM PIANO 3         2         0         ○         <							
029         101         SANTUR         15         58           030         102         SAROD         105         58           031         103         SHANAI         111         56           032         104         SARANGI         110         57           033         105         KANUN         15         59           034         106         OUD         105         59           034         106         OUD         105         59           035         107         NEY         72         57           036         108         ARABIC ORGAN         16         56           037         109         GM PIANO 1         0         0           038         110         GM PIANO 2         1         0         0           039         111         GM PIANO 3         2         0         0           040         112         GM HONKY-TONK         3         0         0           041         113         GM EPIANO 1         4         0         0           042         114         GM E.PIANO 2         5         0         0           043         115							
030         102         SAROD         105         58           031         103         SHANAI         111         56           032         104         SARANGI         110         57           033         105         KANUN         15         59           034         106         OUD         105         59           035         107         NEY         72         57           036         108         ARABIC ORGAN         16         56           037         109         GM PIANO 1         0         0           038         110         GM PIANO 2         1         0           039         111         GM PIANO 3         2         0           040         112         GM HONKY-TONK         3         0           041         113         GM EPIANO 1         4         0           042         114         GM EPIANO 1         7         0							
032         104         SARANGI         110         57           033         105         KANUN         15         59           034         106         OUD         105         59           035         107         NEY         72         57           036         108         ARABIC ORGAN         16         56           037         109         GM PIANO 1         0         0         ○           038         110         GM PIANO 2         1         0         ○           039         111         GM PIANO 3         2         0           040         112         GM HONKY-TONK         3         0           041         113         GM E.PIANO 1         4         0           042         114         GM E.PIANO 2         5         0           043         115         GM HARPSICHORD         6         0           044         116         GM CLAVI         7         0           045         117         GM CELESTA         8         0           046         118         GM CLAVI         7         0           047         119         GM MIBRAPHONE         11		030	102		105	58	
033         105         KANUN         15         59           034         106         OUD         105         59           035         107         NEY         72         57           036         108         ARABIC ORGAN         16         56           037         109         GM PIANO 1         0         0           038         110         GM PIANO 2         1         0         0           038         111         GM PIANO 2         1         0         0           039         111         GM PIANO 3         2         0           040         112         GM HONKY-TONK         3         0           041         113         GM E.PIANO 1         4         0           042         114         GM E.PIANO 2         5         0           043         115         GM HARPSICHORD         6         0           044         116         GM CLAVI         7         0           045         117         GM CELESTA         8         0           046         118         GM CELESTA         8         0           047         119         GM MIBRAPHONE         11 <td></td> <td>031</td> <td>103</td> <td>SHANAI</td> <td>111</td> <td>56</td> <td></td>		031	103	SHANAI	111	56	
034         106         OUD         105         59           035         107         NEY         72         57           036         108         ARABIC ORGAN         16         56           037         109         GM PIANO 1         0         0           038         110         GM PIANO 2         1         0         ○           039         111         GM PIANO 3         2         0           040         112         GM HONKY-TONK         3         0           041         113         GM E.PIANO 1         4         0           042         114         GM E.PIANO 2         5         0           043         115         GM HARPSICHORD         6         0           044         116         GM CLAVI         7         0           045         117         GM CELESTA         8         0           046         118         GM CELESTA         8         0           047         119         GM MUSIC BOX         10         0           048         120         GM VIBRAPHONE         11         0           049         121         GM MARIMBA         12         <		032	104	SARANGI	110	57	
035         107         NEY         72         57           036         108         ARABIC ORGAN         16         56           037         109         GM PIANO 1         0         0           038         110         GM PIANO 2         1         0           039         111         GM PIANO 3         2         0           040         112         GM HONKY-TONK         3         0           041         113         GM E.PIANO 1         4         0           042         114         GM E.PIANO 2         5         0           043         115         GM HARPSICHORD         6         0           044         116         GM CLAVI         7         0           045         117         GM CELESTA         8         0           046         118         GM CLOCKENSPIEL         9         0           047         119         GM VIBRAPHONE         11         0           048         120         GM VIBRAPHONE         11         0           049         121         GM MARIMBA         12         0           050         122         GM XYLOPHONE         13         0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
036         108         ARABIC ORGAN         16         56           037         109         GM PIANO 1         0         0           038         110         GM PIANO 2         1         0           039         111         GM PIANO 3         2         0           040         112         GM HONKY-TONK         3         0           041         113         GM E.PIANO 1         4         0           042         114         GM E.PIANO 2         5         0           043         115         GM HARPSICHORD         6         0           044         116         GM CLAVI         7         0           045         117         GM CELESTA         8         0           046         118         GM GLOCKENSPIEL         9         0           047         119         GM MUSIC BOX         10         0           048         120         GM VIBRAPHONE         11         0           049         121         GM MARIMBA         12         0           050         122         GM XYLOPHONE         13         0           051         123         GM TUBULAR BELL         14							
037         109         GM PIANO 1         0         0           038         110         GM PIANO 2         1         0         ○           039         111         GM PIANO 3         2         0         ○							
038         110         GM PIANO 2         1         0         0           039         111         GM PIANO 3         2         0           040         112         GM HONKY-TONK         3         0           041         113         GM E.PIANO 1         4         0           042         114         GM E.PIANO 2         5         0           043         115         GM HARPSICHORD         6         0           044         116         GM CLAVI         7         0           045         117         GM CELESTA         8         0           046         118         GM GLOCKENSPIEL         9         0           047         119         GM MUSIC BOX         10         0           048         120         GM VIBRAPHONE         11         0           049         121         GM MARIMBA         12         0           050         122         GM XYLOPHONE         13         0           051         123         GM TUBULAR BELL         14         0           052         124         GM DULCIMER         15         0           053         125         GM ORGAN 1							0
039         111         GM PIANO 3         2         0           040         112         GM HONKY-TONK         3         0           041         113         GM E.PIANO 1         4         0           042         114         GM E.PIANO 2         5         0           043         115         GM HARPSICHORD         6         0           044         116         GM CLAVI         7         0           045         117         GM CELESTA         8         0           046         118         GM CELESTA         8         0           047         119         GM MUSIC BOX         10         0           048         120         GM VIBRAPHONE         11         0           049         121         GM MARIMBA         12         0           050         122         GM XYLOPHONE         13         0           051         123         GM TUBULAR BELL         14         0           052         124         GM DULCIMER         15         0           053         125         GM ORGAN 1         16         0           054         126         GM ORGAN 2         17 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
040         112         GM HONKY-TONK         3         0           041         113         GM E.PIANO 1         4         0           042         114         GM E.PIANO 2         5         0           043         115         GM HARPSICHORD         6         0           044         116         GM CLAVI         7         0           045         117         GM CELESTA         8         0           046         118         GM CELESTA         8         0           047         119         GM MUSIC BOX         10         0           048         120         GM YIBRAPHONE         11         0           049         121         GM MARIMBA         12         0           050         122         GM XYLOPHONE         13         0           051         123         GM TUBULAR BELL         14         0           052         124         GM DULCIMER         15         0           053         125         GM ORGAN 1         16         0           054         126         GM ORGAN 2         17         0           055         127         GM ORGAN 3         18 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
042         114         GM E.PIANO 2         5         0           043         115         GM HARPSICHORD         6         0           044         116         GM CLAVI         7         0           045         117         GM CELESTA         8         0           046         118         GM GLOCKENSPIEL         9         0           047         119         GM MUSIC BOX         10         0           048         120         GM VIBRAPHONE         11         0           049         121         GM MARIMBA         12         0           050         122         GM XYLOPHONE         13         0           051         123         GM TUBULAR BELL         14         0           052         124         GM DULCIMER         15         0           053         125         GM ORGAN 1         16         0           054         126         GM ORGAN 2         17         0           055         127         GM ORGAN 3         18         0           056         128         GM PIPE ORGAN         19         0           057         129         GM REED ORGAN         20							
043         115         GM HARPSICHORD         6         0           044         116         GM CLAVI         7         0           045         117         GM CELESTA         8         0           046         118         GM CLOCKENSPIEL         9         0           047         119         GM MUSIC BOX         10         0           048         120         GM VIBRAPHONE         11         0           049         121         GM MARIMBA         12         0           050         122         GM XYLOPHONE         13         0           051         123         GM TUBULAR BELL         14         0           052         124         GM DULCIMER         15         0           053         125         GM ORGAN 1         16         0           054         126         GM ORGAN 2         17         0           055         127         GM ORGAN 3         18         0           056         128         GM PIPE ORGAN         19         0           057         129         GM REED ORGAN         20         0           058         130         GM ACCORDION         21		041	113		4	0	
044         116         GM CLAVI         7         0           045         117         GM CELESTA         8         0           046         118         GM CELESTA         8         0           046         118         GM CELESTA         8         0           047         119         GM GELESTA         8         0           047         119         GM GLOCKENSPIEL         9         0           048         120         GM VUSHICE         10         0           048         120         GM VIBRAPHONE         11         0           059         121         GM MARIMBA         12         0           050         122         GM XYLOPHONE         13         0           051         123         GM YUBULAR BELL         14         0           052         124         GM DULCIMER         15         0           053         125         GM ORGAN 1         16         0           054         126         GM ORGAN 2         17         0           055         127         GM ORGAN 3         18         0           056         128         GM PIPE ORGAN         19         0<							
045         117         GM CELESTA         8         0           046         118         GM GLOCKENSPIEL         9         0           047         119         GM MUSIC BOX         10         0           048         120         GM VIBRAPHONE         11         0           049         121         GM ARRIMBA         12         0           050         122         GM XYLOPHONE         13         0           051         123         GM TUBULAR BELL         14         0           052         124         GM DUCIMER         15         0           053         125         GM ORGAN 1         16         0           054         126         GM ORGAN 2         17         0           055         127         GM ORGAN 3         18         0           056         128         GM PIPE ORGAN         19         0           057         129         GM REED ORGAN         20         0           058         130         GM ACCORDION         21         0           059         131         GM HARMONICA         22         0           060         132         GM BANDONEON         23 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
046         118         GM GLOCKENSPIEL         9         0           047         119         GM MUSIC BOX         10         0           048         120         GM VIBRAPHONE         11         0           049         121         GM MARIMBA         12         0           050         122         GM XYLOPHONE         13         0           051         123         GM TUBULAR BELL         14         0           052         124         GM DULCIMER         15         0           053         125         GM ORGAN 1         16         0           054         126         GM ORGAN 2         17         0           055         127         GM ORGAN 3         18         0           056         128         GM PIPE ORGAN         19         0           057         129         GM REED ORGAN         20         0           058         130         GM ACCORDION         21         0           059         131         GM HARMONICA         22         0           060         132         GM BANDONEON         23         0							
047         119         GM MUSIC BOX         10         0           048         120         GM VIBRAPHONE         11         0           049         121         GM MARIMBA         12         0           050         122         GM XYLOPHONE         13         0           051         123         GM TUBULAR BELL         14         0           052         124         GM DULCIMER         15         0           053         125         GM ORGAN 1         16         0           054         126         GM ORGAN 2         17         0           055         127         GM ORGAN 3         18         0           056         128         GM PIPE ORGAN         19         0           057         129         GM REED ORGAN         20         0           058         130         GM ACCORDION         21         0           059         131         GM HARMONICA         22         0           060         132         GM BANDONEON         23         0							
048         120         GM VIBRAPHONE         11         0           049         121         GM MARIMBA         12         0           050         122         GM XYLOPHONE         13         0           051         123         GM TUBULAR BELL         14         0           052         124         GM DULCIMER         15         0           053         125         GM ORGAN 1         16         0           054         126         GM ORGAN 2         17         0           055         127         GM ORGAN 3         18         0           056         128         GM PIPE ORGAN         19         0           057         129         GM REED ORGAN         20         0           058         130         GM ACCORDION         21         0           059         131         GM HARMONICA         22         0           060         132         GM BANDONEON         23         0					_		
049         121         GM MARIMBA         12         0           050         122         GM XYLOPHONE         13         0           051         123         GM TUBULAR BELL         14         0           052         124         GM DULCIMER         15         0           053         125         GM ORGAN 1         16         0           054         126         GM ORGAN 2         17         0           055         127         GM ORGAN 3         18         0           056         128         GM PIPE ORGAN         19         0           057         129         GM REED ORGAN         20         0           058         130         GM ACCORDION         21         0           059         131         GM HARMONICA         22         0           060         132         GM BANDONEON         23         0							
051         123         GM TUBULAR BELL         14         0           052         124         GM DULCIMER         15         0           053         125         GM ORGAN 1         16         0           054         126         GM ORGAN 2         17         0           055         127         GM ORGAN 3         18         0           056         128         GM PIPE ORGAN         19         0           057         129         GM REED ORGAN         20         0           058         130         GM ACCORDION         21         0           059         131         GM HARMONICA         22         0           060         132         GM BANDONEON         23         0							
052         124         GM DULCIMER         15         0           053         125         GM ORGAN 1         16         0           054         126         GM ORGAN 2         17         0           055         127         GM ORGAN 3         18         0           056         128         GM PIPE ORGAN         19         0           057         129         GM REED ORGAN         20         0           058         130         GM ACCORDION         21         0           059         131         GM HARMONICA         22         0           060         132         GM BANDONEON         23         0		050	122	GM XYLOPHONE	13	0	
053         125         GM ORGAN 1         16         0           054         126         GM ORGAN 2         17         0           055         127         GM ORGAN 3         18         0           056         128         GM PIPE ORGAN         19         0           057         129         GM REED ORGAN         20         0           058         130         GM ACCORDION         21         0           059         131         GM HARMONICA         22         0           060         132         GM BANDONEON         23         0			123	GM TUBULAR BELL	14	0	
054         126         GM ORGAN 2         17         0           055         127         GM ORGAN 3         18         0           056         128         GM PIPE ORGAN         19         0           057         129         GM REED ORGAN         20         0           058         130         GM ACCORDION         21         0           059         131         GM HARMONICA         22         0           060         132         GM BANDONEON         23         0							
055         127         GM ORGAN 3         18         0           056         128         GM PIPE ORGAN         19         0           057         129         GM REED ORGAN         20         0           058         130         GM ACCORDION         21         0           059         131         GM HARMONICA         22         0           060         132         GM BANDONEON         23         0							
056         128         GM PIPE ORGAN         19         0           057         129         GM REED ORGAN         20         0           058         130         GM ACCORDION         21         0           059         131         GM HARMONICA         22         0           060         132         GM BANDONEON         23         0							
057         129         GM REED ORGAN         20         0           058         130         GM ACCORDION         21         0           059         131         GM HARMONICA         22         0           060         132         GM BANDONEON         23         0							
058         130         GM ACCORDION         21         0           059         131         GM HARMONICA         22         0           060         132         GM BANDONEON         23         0							
059         131         GM HARMONICA         22         0           060         132         GM BANDONEON         23         0							
060 132 GM BANDONEON 23 0							
061 133 GM NYLON STR.GUITAR 24 0							
		061	133	GM NYLON STR.GUITAR	24	0	

Group Name/ ombre del grupo	Group Number/ Número de grupo	Sequential Number/ Número secuencial	Tone Name/ Nombre del tono	Program Change/ Cambio de programa	Bank Select MSB/ MSB de Selección de banco	Acoustic Resonance/ Resonancia acústica
	062	134	GM STEEL STR.GUITAR	25	0	
	063 064	135 136	GM JAZZ GUITAR GM CLEAN GUITAR	26 27	0	
	065	137	GM CLEAN GUITAR  GM MUTE GUITAR	28	0	
	066	138	GM OVERDRIVE GT	29	0	
	067	139	GM DISTORTION GT	30	0	
	068	140	GM GT HARMONICS	31	0	
	069	141	GM ACOUSTIC BASS	32	0	
	070 071	142	GM FINGERED BASS GM PICKED BASS	33 34	0	
	071	143	GM FRETLESS BASS	35	0	
	073	145	GM SLAP BASS 1	36	0	
	074	146	GM SLAP BASS 2	37	0	
	075	147	GM SYNTH-BASS 1	38	0	
	076 077	148 149	GM SYNTH-BASS 2 GM VIOLIN	39 40	0	
	077	150	GM VIOLA	41	0	
	079	151	GM CELLO	42	0	
	080	152	GM CONTRABASS	43	0	
	081	153	GM TREMOLO STRINGS	44	0	
	082	154	GM PIZZICATO	45	0	
	083 084	155	GM HARP	46 47	0	
	084	156 157	GM TIMPANI GM STRINGS 1	48	0	
	086	158	GM STRINGS 2	49	0	
	087	159	GM SYNTH-STRINGS 1	50	0	
	088	160	GM SYNTH-STRINGS 2	51	0	
	089	161	GM CHOIR AAHS	52	0	
	090	162	GM VOICE DOO	53	0	
	091 092	163 164	GM SYNTH-VOICE GM ORCHESTRA HIT	54 55	0	
	092	165	GM TRUMPET	56	0	
	094	166	GM TROMBONE	57	0	
	095	167	GM TUBA	58	0	
	096	168	GM MUTE TRUMPET	59	0	
	097	169	GM FRENCH HORN	60	0	
	098	170 171	GM BRASS GM SYNTH-BRASS 1	61 62	0	
	100	172	GM SYNTH-BRASS 2	63	0	
	101	173	GM SOPRANO SAX	64	0	
	102	174	GM ALTO SAX	65	0	
	103	175	GM TENOR SAX	66	0	
	104	176	GM BARITONE SAX	67	0	
	105 106	177 178	GM OBOE GM ENGLISH HORN	68 69	0	
	107	179	GM BASSOON	70	0	
	108	180	GM CLARINET	71	0	
	109	181	GM PICCOLO	72	0	
	110	182	GM FLUTE	73	0	
	111	183	GM RECORDER GM PAN FLUTE	74	0	
	112 113	184 185	GM PAN FLUTE GM BOTTLE BLOW	75 76	0	
	114	186	GM SHAKUHACHI	77	0	
	115	187	GM WHISTLE	78	0	
	116	188	GM OCARINA	79	0	
	117	189	GM SQUARE LEAD	80	0	
	118	190	GM SAW LEAD	81	0	
	119 120	191 192	GM CALLIOPE GM CHIFF LEAD	82 83	0	
	121	193	GM CHARANG	84	0	
	122	194	GM VOICE LEAD	85	0	
	123	195	GM FIFTH LEAD	86	0	
	124	196	GM BASS+LEAD	87	0	
	125	197	GM FANTASY	88	0	
	126 127	198 199	GM WARM PAD GM POLYSYNTH	89 90	0	
	128	200	GM SPACE CHOIR	91	0	
	129	201	GM BOWED GLASS	92	0	
	130	202	GM METAL PAD	93	0	
	131	203	GM HALO PAD	94	0	
	132	204	GM SWEEP PAD	95	0	
	133	205	GM RAIN DROP	96	0	
	134	206 207	GM SOUND TRACK GM CRYSTAL	97 98	0	
	136	208	GM ATMOSPHERE	99	0	
	137	209	GM BRIGHTNESS	100	0	
	138	210	GM GOBLINS	101	0	
	139	211	GM ECHOES	102	0	

Group Name/ Nombre del grupo	Group Number/ Número de grupo	Sequential Number/ Número secuencial	Tone Name/ Nombre del tono	Program Change/ Cambio de programa	Bank Select MSB/ MSB de Selección de banco	Acoustic Resonance/ Resonancia acústica
	140	212	GM SF	103	0	
	141	213	GM SITAR	104	0	
	142	214	GM BANJO	105	0	
	143	215	GM SHAMISEN	106	0	
	144	216	GM KOTO	107	0	
	145	217	GM THUMB PIANO	108	0	
	146	218	GM BAGPIPE	109	0	
	147	219	GM FIDDLE	110	0	
	148	220	GM SHANAI	111	0	
	149	221	GM TINKLE BELL	112	0	
	150	222	GM AGOGO	113	0	
	151	223	GM STEEL DRUMS	114	0	
	152	224	GM WOOD BLOCK	115	0	
	153	225	GM TAIKO	116	0	
	154	226	GM MELODIC TOM	117	0	
	155	227	GM SYNTH-DRUM	118	0	
	156	228	GM REVERSE CYMBAL	119	0	
	157	229	GM GT FRET NOISE	120	0	
	158	230	GM BREATH NOISE	121	0	
	159	231	GM SEASHORE	122	0	
	160	232	GM BIRD	123	0	
	161	233	GM TELEPHONE	124	0	
	162	234	GM HELICOPTER	125	0	
	163	235	GM APPLAUSE	126	0	
	164	236	GM GUNSHOT	127	0	
	165	237	STANDARD SET 1	0	120	
	166	238	STANDARD SET 2	1	120	
	167	239	STANDARD SET 3	2	120	
	168	240	STANDARD SET 4	3	120	
	169	241	ROOM SET	8	120	
	170	242	HIP-HOP SET	9	120	
	171	243	POWER SET	16	120	
	172	244	ELECTRONIC SET	24	120	
	173	245	SYNTH SET 1	25	120	
	174	246	SYNTH SET 2	30	120	
	175	247	TRANCE SET	31	120	
	176	248	JAZZ SET	32	120	
	177	249	BRUSH SET	40	120	
	178	250	ORCHESTRA SET	48	120	

#### NOTE

- Acoustic resonance (page E-41) is applied only to tones indicated by "○".
- While sequential numbered tone 065 (STEEL STR.GUITAR 2) or 066 (STEEL STR.GUITAR 3) is selected, pressing multiple keys on the far left side of the keyboard will produce a guitar strumming sound. It does not indicate malfunction.
- See the "Drum Assignment List" (page A-3) for the percussion instrument assigned to each keyboard key when a drum set (Sequential Number 237 to 250) is selected.

#### Î NOTA

- La resonancia acústica (página S-42) se aplica solamente a los tonos indicados mediante "O".
- Cuando los tonos secuenciales número 065 (STEEL STR. GUITAR 2) o 066 (STEEL STR. GUITAR 3) estén seleccionados, si presiona múltiples teclas en el extremo izquierdo del teclado producirá un sonido de rasgueo de guitarra. Esto no es ningún signo de anomalía.
- Consulte la "Lista de asignación de batería" (página A-3) para saber cuáles son los instrumentos de percusión asignados a cada tecla cuando se selecciona un ajuste de batería (números secuenciales 237 a 250).

# Drum Assignment List/Lista de sonidos de batería

STRA	·Hat	lat	lat	- 100					۵		۵		2			33:		11										vmbal 2		ymbal 1																											
ORCHESTRA SET	Closed Hi-Ha	Pedal Hi-Hat	Open Hi-Hat	Tilde Oyille	• •	4	<b>4</b>	Jazz Kick 1	Concert BD	ψ,	Concert SD	Castanets	Concert S	Timpani T	Timpani G	Timpani G	Timpani A	Timpani A#	Timpani B	Timpani c	Timpani c	Timpani d	Timpani of	Timpani e	IImpanir	١ ٦	4	Concert Cymbal	_	Concert Cymbal	ψ.	ψ、	1 1		¥	Ψ	ψ.	ψ、	LI	, 1		4	<b>+</b>	ψ	ψ	ψ.	<b>,</b>	1 1		<b>+</b>	¥	<b>+</b>	<b>1</b>	ψ.	1	4	
BRUSH SET	<b>+</b>	<b>.</b>	<b>.</b>	<b>1</b>		4	<b>+</b>	Jazz Kick 2	Brush Kick	Brush Side Stick	Brush Snare 1	Brush Slap	Brush Share 2	L 4			¥	<b>+</b>	<b>↓</b>	<b>~</b>	Brush Crash Cymbal 1	Ψ.	Brush Ride Cymbal 1	<b>↓</b>	Brush Hide Bell	Brush Solash Ovmbal	Piusii opidali oyiiiba	Brush Crash Cymbal 2	<b>+</b>	Brush Ride Cymbal 2	<b>•</b>	<b>.</b>	1 1		<b>+</b>	<b>+</b>	ψ.	<b>.</b>	ν J	, 1	• •	4	•	<b>+</b>	<b>+</b>	ψ,	<b>,</b>	1 1	. ↓	<b>+</b>	<b>+</b>	ψ.	<b>1</b>	↓ ↓	. ↓	4	
JAZZ SET	<b>+</b>	<b>.</b>	<b>.</b>	1		<b>+</b>		Jazz Kick 2	Jazz Kick 1	<b>.</b>	Jazz Snare 1	, ,	Jazz Snare 2	L 1		•	<b>+</b>	<b>+</b>	<b>+</b>	Ψ.	4	<b>+</b>	Ψ,	<b>.</b>	L	١ ٦	. 1		<b>+</b>	+	<b>*</b>	ψ,	1 1		<b>+</b>	<b>+</b>	Ψ.	ψ.	L J	, 1		4	<b>+</b>	+	<b>+</b>	Ψ,	<b>.</b>	1 1		4	Ψ.	Ψ.	1	ı u		4	
TRANCE SET	<b>+</b>	<b>.</b>	ν.	1		4	Ψ.	rance Kick 2	France Kick 1	rance Side Stick	Trance Snare 1	ар	Irance Share 2	Trance Closed Hi-Hat	_	Trance Open Hi-Hat 1	<b>.</b>	Trance Open Hi-Hat 2	<b>+</b>	<b>4</b>	Ψ.	<b>.</b>	ψ,	<b>.</b>		Irance lambourine	. 1		•	<b>+</b>	Ψ.	ψ,	1 1		<b>4</b>	<b>+</b>	Ψ,	<b>.</b>	L 1	, 1		4	<b>+</b>	<b>+</b>	<b>+</b>	ψ.	<b>.</b>	1 1		<b>T</b>	Ψ.	Ψ.	1 1	L J	. 4	J	
SYNTH SET 2	<b>.</b>						•	Synth2 Kick 2	Synth2 Kick 1	jot	Synth2 Snare 1	· · ·	Synth2 Share 2	Synth2 Closed Hi-Hat 1		at 2		Synth2 Open Hi-Hat		Synth2 High Tom 2	<b>+</b>	Synth2 High Tom 1	Ψ,	<b>.</b>		. 1	nth 1 Cowhell	Г			<b>*</b>	ψ.	<b>1</b> 1						Sunth 1 Margage				•	nth1 Claves									<b>+ +</b>				-
SYNTH SET 1	<b>+</b>	<b>.</b>	<b>.</b>	. 4		4		Kick 2	Kick 1	t	Snare 1	Hand Clap	Ì	Synth 1 Closed Hi-Hat 1		at 2	_	Hat	_		_1		Synth1 Ride Cymbal	•	-	Synth Lambounne	mth 1 Cowhell		•	<b>+</b>	Synth1 High Bongo	Synth1 Low Bongo	Synth Mute Hi Conga	Open Low Conga	_	<b>+</b>	Ψ.		County Morocco	ı		4	•	nth1 Claves									<b>+ 1</b>				
ELECTRONIC SET	<b>+</b>	<b>.</b>	<b>.</b>	. 4		4			Elec. Kick 1	<b>.</b>	Elec. Snare 1			Elec. Low Iom 2	Flec. Low Tom 1	4	Elec. Mid Tom 2	<b>+</b>	Elec. Mid Tom 1	Elec. High Tom 2	П	ec. High Tom 1		Reverse Cymbal	ı	1 1	. 1		•	Ψ.	<b>+</b>	ψ,	1		4	<b>+</b>	Ψ.	<b>.</b>	<b>1</b> 1	. 1		4	•	<b>+</b>	<b>+</b>	ψ,	•	1 1		<b>+</b>	Ψ.	ψ.	<b>1</b>	<b>.</b> •		4	
POWER SET	<b>+</b>	<b>.</b>	1	. 1		4	<b>+</b>	Power Kick 2	Power Kick 1	Ψ.	Power Snare 1	· ·	Power Snare 2	HOOM LOW IOM 2	Room Low Tom 1	4	Room Mid Tom 2	<b>+</b>	Room Mid Tom 1	Room High Tom 2	Ψ	Room High Tom 1	ψ.	ν,	ı	1 1	. 1		<b>+</b>	1	<b>+</b>	ψ,	1		4	<b>+</b>	Ψ.	ψ,	١ ١	, 1		4	<b>+</b>	4	<b>+</b>	ψ.	<b>.</b>	1 1		<b>+</b>	1	Ψ.	<b>1</b>	ı u		4	
HIP-HOP SET	<b>+</b>	<b>.</b>	1	. 4		4	<b>+</b>	Hip-Hop Kick 2	Hip-Hop Kick 1	Hip-Hop Side Stick	Hip-Hop Snare 1	Hip-Hop Hand Clap	Hip-Hop Share 2	Hin-Hon Closed Hi.Hat		Hip-Hop Pedal Hi-Hat	•	Hip-Hop Open Hi-Hat	Ψ.	<b>~</b>	Ψ	Ψ.	ψ.	ν,	ı	1 1	. 1		<b>+</b>	1	<b>+</b>	ψ,	1		4	<b>+</b>	Ψ,	ψ,	١ ١	, 1		4	<b>+</b>	4	<b>+</b>	ψ.	<b>.</b>	1 1		<b>+</b>	1	Ψ.	<b>1</b>	ı u		4	
ROOM SET	<b>+</b>	<b>.</b>	1	. 1	•	4	<b>+</b>	Room Kick 2	Room Kick 1	<b>.</b>	Room Snare 1	·	Hoom Share 2	₩ 10111 Z	Room Low Tom 1	<b>+</b>	Room Mid Tom 2	<b>+</b>	Room Mid Tom 1	Room High Tom 2	Ψ	Room High Tom 1	ψ,	<b>.</b>	ı	11	. 1	. ↓	<b>+</b>	+	Ψ.	<b>.</b>	1 1		<b>+</b>	<b>+</b>	Ψ.	<b>.</b>	L 1	, 1		4	<b>+</b>	+	<b>+</b>	ψ.	<b>.</b>	1 1		<b>+</b>	+	<b>+</b>	1	<b>.</b> 4		4	
STANDARD SET 4	<b>+</b>	<b>.</b>	1	. 1	•	4	<b>+</b>	Standard4 Kick 2	Standard4 Kick 1	<b>.</b>	Standard4 Snare 1	↓	Standard4 Snare 2	1 1		•	<b>+</b>	<b>+</b>			Ψ	<b>+</b>	ψ,	<b>.</b>	ı	11	. 1	. ↓	<b>+</b>	+	Ψ.	<b>.</b>	1 1		<b>+</b>	<b>+</b>	Ψ.	<b>.</b>	L 1	, 1		4	<b>+</b>	+	<b>+</b>	ψ.	<b>.</b>	1 1		<b>+</b>	+	<b>+</b>	1	<b>.</b> 4		4	
STANDARD SET 3	<b>+</b>	<b>.</b>	1	. 1	•	4	<b>+</b>	Standard3 Kick 2	Standard3 Kick 1	Standard3 Side Stick	Standard3 Snare 1	Standard3 Hand Clap	Standard3 Snare 2	Standards Closed Hi-Hat	Standard3 Low Tom 1	Standard3 Pedal Hi-Hat	Standard3 Mid Tom 2	Standard3 Open Hi-Hat	Standard3 Mid Tom 1	Standard3 High Tom 2	Ψ	Standard3 High Tom 1	ψ,	<b>.</b>	ı	11	. 1	. ↓	<b>+</b>	+	Ψ.	<b>.</b>	1 1		<b>+</b>	<b>+</b>	ψ.	<b>.</b>	L 1	, 1		4	<b>+</b>	+	<b>+</b>	ψ.	<b>.</b>	1 1		<b>+</b>	+	<b>+</b>	1	<b>.</b> •		4	
STANDARD SET 2	<b>+</b>	<b>.</b>	<b>.</b>	. 4		4	<b>+</b>	Standard2 Kick 2	Standard2 Kick 1	<b>.</b>	Standard2 Snare 1	↓	Standard2 Snare 2	Standard Closed Hi, Hat	→	Standard2 Pedal Hi-Hat	ų.	Standard2 Open Hi-Hat	<b>+</b>	<b>+</b>	4	<b>+</b>	ψ.		ı	1 1	1		<b>+</b>	<b>+</b>	<b>+</b>	ψ,	1		4	<b>+</b>	ψ.	<b>.</b>	L 1	, 1		4	•	<b>+</b>	<b>+</b>	ψ.	<b>.</b>	1 1		<b>+</b>	<b>+</b>	<b>+</b>	<b>1</b>	<b>.</b> •		4	
VDARD ET 1	Ø	Ī	_	Sticks	9 Click	¥			Kick 1	_		Hand Clap		Closed Hi.Hat		lat		at			pal 1		П	Symbal	Ī	Solesh Cymbal		vmbal 2		12		-	Mute High Conga			0	Ī	ogo	Vabasa	h Whierla	_	Short Guiro	Long Guiro		Ţ	Slock		Open Cuica			le le		Castanets Mute Surdo			Г	
	E4 27		F1 29	G1 31		A1 33		51 35	C2 36	C#2 37		E2 40		F2 41 E2 42	G2 43	Ab2 44	A2 45	Br2 46	B2 4/	C3 48	Cf3 49		F2 52 E93 51		F3 53	G3 55	Abs 56	A3 57	B <sup>3</sup> 58	B3 59	C4 60		D4 62 EM 63		F4 65	F#4 66	G4 67	Av 66	A4 09	B4 71	CE 72	Ci5 73	D5 74		E5 76		8/ CH	02 /8 VPE 80	A5 81	B <sup>5</sup> 82	B5 83		C#6 85	Eb6 87	E6 88	F6 89	

" $\leftarrow$ " indicates a key is assigned the same tones as it is for STANDARD SET.

• " $\leftarrow$ " indica una clave asignada a los mismos tonos que para STANDARD SET.

## Rhythm List/Lista de ritmos

POPS	Group Name/ Nombre del grupo POPS/JAZZ	Group Number/ Número de grupo	Sequential Number/ Número secuencial	Rhythm name/ Nombre del ritmo						
002		POPS								
003		001	001	POP 1						
004		002	002	POP 2						
005		003	003							
006										
007										
008				,						
009										
010										
S BEAT/16 BEAT										
011         011         STRAIGHT 8 BEAT 1           012         012         STRAIGHT 8 BEAT 2           013         013         FUNK 8 BEAT           014         014         MELLOW 8 BEAT           015         015         GUITAR 8 BEAT           016         016         016         8 BEAT           017         017         017         8 BEAT POP           018         018         OLDIES 8 BEAT           019         019         60'S 8 BEAT           020         020         16 BEAT           021         021         16 BEAT SHUFFLE           DANCE         022         022         HIP-HOP           023         023         DANCE POP           024         024         DISCO POP           025         025         TECHNO POP           026         026         TRANCE           027         027         MODERN R&B           028         028         MODERN R&B           029         029         DISCO SOUL           ROCK         031         031         SHUFEL ROCK           031         033         SHUFEL ROCK           032         033         BLUES 1 </td <td></td> <td></td> <td></td> <td>TOT SHOFFEE</td>				TOT SHOFFEE						
012 012 STRAIGHT 8 BEAT 2 013 013 FUNK 8 BEAT 014 014 MELLOW 8 BEAT 015 015 GUTTAR 8 BEAT 016 016 8 BEAT 017 017 8 BEAT POP 018 018 018 OLDIES 8 BEAT 019 019 60'S 8 BEAT 020 020 16 BEAT 021 021 16 BEAT SHUFFLE  DANCE 022 022 HIP-HOP 023 023 DANCE POP 024 024 DISCO POP 025 025 TECHNO POP 026 026 TRANCE 027 027 MODERN R&B 028 028 MODERN DANCE 029 029 DISCO SOUL  ROCK 030 030 STRAIGHT ROCK 031 031 SHUFFLE ROCK 032 032 BLUES 1 033 033 BLUES 2 034 034 EP BLUES 035 035 SLOW BLUES 036 036 SOFT ROCK 037 037 LATIN ROCK 038 038 SLOW ROCK 040 040 050'S PIANO ROCK 041 041 NEW ORLINS R&R 042 042 042 60'S ROCK 043 043 ROCK 044 044 044 70'S PIANO ROCK 045 045 MAND ROCK 046 046 SLOW BIG BAND 047 047 MIDDLE BIG BAND 049 049 SWING 1 050 JAZZ COMBO 1 EUROPEAN 056 056 SCHLAGER				STRAIGHT 8 REAT 1						
013         013         FUNK 8 BEAT           014         014         MELLOW 8 BEAT           015         015         GUITAR 8 BEAT           016         016         8 BEAT           017         017         8 BEAT POP           018         018         OLDIES 8 BEAT           019         019         60°S 8 BEAT           020         020         16 BEAT           021         021         16 BEAT SHUFFLE           DANCE           022         022         HIP-HOP           023         023         DANCE POP           024         024         DISCO POP           025         025         TECHNO POP           026         026         TRANCE           027         MODERN R&B           028         028         028 MODERN DANCE           029         029         DISCO SOUL           ROCK           030         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           033         033         BLUES 1           033         033         BLUES 2           034         034         EP BLUES <td></td> <td></td> <td></td> <td></td>										
014         014         MELLOW 8 BEAT           015         015         GUITAR 8 BEAT           016         016         8 BEAT           017         017         8 BEAT POP           018         018         OLDIES 8 BEAT           019         019         60'S 8 BEAT           020         020         16 BEAT           021         021         16 BEAT SHUFFLE           DANCE           022         022         HIP-HOP           023         023         DANCE POP           024         024         DISCO POP           025         025         TECHNO POP           026         026         026         TRANCE           029         029         DISCO SOUL           ROCK           030         030         STRAIGHT ROCK           031         031         SHUES 1           032         032         BLUES 1           033         033         BLUES 1           033         033         BLUES 1           033         033         BLUES 1           035         035         SLOW BLUES           036         036         <			-							
016         016         8 BEAT           017         017         8 BEAT POP           018         018         OLDIES 8 BEAT           019         019         60'S 8 BEAT           020         020         16 BEAT           021         021         16 BEAT SHUFFLE           DANCE           022         022         HIP-HOP           023         023         DANCE POP           024         024         DISCO POP           025         025         TECHNO POP           026         026         TRANCE           027         027         MODERN R&B           028         028         MODERN DANCE           029         029         DISCO SOUL           ROCK         030         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BULES           036         036         SOFT ROCK           037         037         LATIN ROCK <t< td=""><td></td><td></td><td></td><td></td></t<>										
017			015							
018         018         OLDIES 8 BEAT           019         019         60'S 8 BEAT           020         020         16 BEAT           021         021         16 BEAT SHUFFLE           DANCE         022         022         HIP-HOP           023         023         DANCE POP           024         024         DISCO POP           025         025         TECHNO POP           026         026         TRANCE           027         027         MODERN R&B           028         028         MODERN DANCE           029         029         DISCO SOUL           ROCK         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK </td <td></td> <td>016</td> <td>016</td> <td>8 BEAT</td>		016	016	8 BEAT						
019		017	017	8 BEAT POP						
020         020         16 BEAT           021         021         16 BEAT SHUFFLE           DANCE         022         11P-HOP           023         023         DANCE POP           024         024         DISCO POP           025         025         TECHNO POP           026         026         TRANCE           027         027         MODERN R&B           028         028         MODERN DANCE           029         029         DISCO SOUL           ROCK         030         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S FIANO ROCK           041         041         NEW ORLNS R&R           042         042         60		018	018	OLDIES 8 BEAT						
021         021         16 BEAT SHUFFLE           DANCE         022         022         HIP-HOP           023         023         DANCE POP           024         024         DISCO POP           025         025         TECHNO POP           026         026         TRANCE           027         027         MODERN R&B           028         028         MODERN DANCE           029         029         DISCO SOUL           ROCK         030         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043		019	019	60'S 8 BEAT						
DANCE         022         022         HIP-HOP           023         023         DANCE POP           024         024         DISCO POP           025         025         TECHNO POP           026         026         TRANCE           027         027         MODERN R&B           028         028         MODERN DANCE           029         029         DISCO SOUL           ROCK           030         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           0		020	020	16 BEAT						
022         022         HIP-HOP           023         023         DANCE POP           024         024         DISCO POP           025         025         TECHNO POP           026         026         026         TRANCE           027         027         MODERN R&B           028         028         MODERN DANCE           029         029         DISCO SOUL           ROCK         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK		021	021	16 BEAT SHUFFLE						
023         023         DANCE POP           024         024         DISCO POP           025         025         TECHNO POP           026         026         TRANCE           027         027         MODERN R&B           028         028         MODERN DANCE           029         029         DISCO SOUL           ROCK         030         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045		DANCE								
024         024         DISCO POP           025         025         TECHNO POP           026         026         TRANCE           027         027         MODERN R&B           028         028         MODERN DANCE           029         029         DISCO SOUL           ROCK           030         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND		022	022	HIP-HOP						
025         026         026         TRANCE           027         027         MODERN R&B           028         028         MODERN DANCE           029         029         DISCO SOUL           ROCK           030         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ         046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND			023							
026         026         TRANCE           027         027         MODERN R&B           028         028         MODERN DANCE           029         029         DISCO SOUL           ROCK           030         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLINS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND <t< td=""><td></td><td></td><td></td><td></td></t<>										
027         027         MODERN R&B           028         028         MODERN DANCE           029         029         DISCO SOUL           ROCK           030         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ         046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           049         049         SWING 1										
028         028         MODERN DANCE           029         029         DISCO SOUL           ROCK           030         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ         046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND										
029         029         DISCO SOUL           ROCK           030         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ         046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           <										
ROCK           030         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ										
030         030         STRAIGHT ROCK           031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052 <td></td> <td></td> <td>029</td> <td>DISCOSOUL</td>			029	DISCOSOUL						
031         031         SHUFFLE ROCK           032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053			020	STP A ICHT POCK						
032         032         BLUES 1           033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054										
033         033         BLUES 2           034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055										
034         034         EP BLUES           035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEA										
035         035         SLOW BLUES           036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER										
036         036         SOFT ROCK           037         037         LATIN ROCK           038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER										
038         038         SLOW ROCK           039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER		036	036							
039         039         50'S ROCK           040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER										
040         040         50'S PIANO ROCK           041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER										
041         041         NEW ORLNS R&R           042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER		039	039	50'S ROCK						
042         042         60'S ROCK           043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER		040	040	50'S PIANO ROCK						
043         043         ROCK           044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER		041	041	NEW ORLNS R&R						
044         044         70'S PIANO ROCK           045         045         ROCK WALTZ           JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER										
045         045         ROCK WALTZ           JAZZ         046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER										
JAZZ           046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER										
046         046         SLOW BIG BAND           047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER			045	ROCK WALTZ						
047         047         MIDDLE BIG BAND           048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER		,	046	CLOIM DIC DANID						
048         048         FAST BIG BAND           049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER										
049         049         SWING 1           050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER										
050         050         SWING 2           051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER										
051         051         SLOW SWING           052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER										
052         052         JAZZ WALTZ           053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER										
053         053         FOX TROT           054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER										
054         054         QUICKSTEP           055         055         JAZZ COMBO 1           EUROPEAN         056         SCHLAGER										
055         055         JAZZ COMBO 1           EUROPEAN         056         056         SCHLAGER										
EUROPEAN 056 SCHLAGER										
057 057 POLKA		056	056	SCHLAGER						
		057	057	POLKA						
058 058 WALTZ 1		058	058	WALTZ 1						

Group Name/	Group Number/	Sequential Number/	Rhythm name/						
Nombre del grupo	Número de	Número secuencial	Nombre del ritmo						
	grupo 059	059	WALTZ 2						
	060	060	SLOW WALTZ						
	061	061	VIENNESE WALTZ						
	062	062	FRENCH WALTZ						
	063	063	SERENADE						
	064	064	TANGO						
	065	065	MARCH 1						
	066	066	MARCH 2						
LATIN/WOR	LD								
	LATIN I								
	001	067	BOSSA NOVA						
	002	068	SLOW BOSSA NOVA						
	003	069	BEGUINE						
	004	070	SAMBA 1						
	005	071	SAMBA 2						
	006	072	MAMBO						
	007	073 074	RHUMBA CHA-CHA-CHA						
	008	074	MERENGUE						
	010	075	BOLERO						
	010	076	SALSA 1						
	012	078	SALSA 2						
	013	079	REGGAE						
	014	080	POP REGGAE						
	015	081	SKA						
	LATIN II								
	016	082	REGGAETON 1						
	017	083	REGGAETON 2						
	018	084	CUMBIA						
	019	085	CALYPSO						
	020	086	FORRO						
	021	087	PAGODE						
	022	088	BANDA						
	023	089	PASILLO						
	024 025	090 091	ARGENTINE CUMBIA PUNTA						
	025	091	BACHATA						
	COUNTRY	072	DACIATA						
	027	093	MODERN COUNTRY						
	028	094	COUNTRY 8 BEAT						
	029	095	COUNTRY BALLAD						
	030	096	COUNTRY SHUFFLE						
	021	007	FINGER PICKING						
	031	097	COUNTRY						
	032	098	COUNTRY WALTZ						
	033	099	BLUEGRASS						
	WORLD I								
	AMERICAN	400	DIVIE						
	034	100	DIXIE						
	035	101	TEX-MEX FAST GOSPEL						
	036	102	SLOW GOSPEL						
	037 038	103 104	HAWAIIAN						
		STERN EUROF							
	039	105	PASODOBLE						
	040	106	CAUCASIAN						
	041	107	RUSSIAN CHANSON 1						
	042	108	RUSSIAN CHANSON 2						
	043	109	POLISH WALTZ						
	ARABIC/ORI	ENTAL							
	044	110	SIRTAKI						
	045	111	MUS						
	046	112	ADANI						
	047	113	BALADI						
	048	114	KHALIJI						
	049	115	MALFOOF						

Group Name/ Nombre del	Group Number/ Número de	Sequential Number/ Número	Rhythm name/ Nombre del ritmo
grupo	grupo	secuencial	
	WORLD II INDIAN		
	050	116	BHANGRA
	051	117	DADRA
	052	118	GARBA
	053	119	KEHARWA DANDIYA
	054 055	120 121	TEEN TAAL
	056	122	BHAJAN
	CHINESE		
	057	123	GUANGDONG
	058 059	124 125	JIANGNAN BEIJING
	060	126	DONGBEIYANGGE
	061	127	JINGJU
	062	128	HUANGMEIXI
	063	129	QINQIANG
	064 065	130 131	YUJU YAOZU
	066	132	DAIZU
	067	133	MIAOZU
	068	134	MENGGU
	069	135 136	XINJIANG ZANGZU
	SOUTHEAST		ZANGZU
	071	137	KRONCONG
	072	138	DANGDUT
	JAPANESE		T =
PALLAD/DIA	073 NO RHYTHMS	139	ENKA
BALLAD/FIA	BALLAD	)	
	001	140	PIANO ROCK BALLAD
	002	141	90'S BALLAD
	003	142 143	MODERN BALLAD  ELECTRIC BALLAD
	004	143	SLOW BALLAD 1
	006	145	SLOW BALLAD 2
	007	146	R&B BALLAD
	008	147	16 BEAT BALLAD
	009 010	148 149	SOUL BALLAD POP BALLAD 1
	011	150	POP BALLAD 2
	012	151	PIANO WALTZ BALLAD
	013	152	90'S 6/8 BALLAD
	014 015	153 154	6/8 BALLAD 1 6/8 BALLAD 2
	015	155	ROCK BALLAD
	VARIOUS		
	017	156	CHRISTMAS SONG
	018	157	CHRISTMAS WALTZ
	019 020	158 159	SCREEN SWING SYMPHONY
	021	160	STR QUARTET
	PIANO RHYT		ī
	022	161	PIANO 8 BEAT
	023 024	162 163	PIANO BALLAD 1 PIANO BALLAD 2
	025	164	EP BALLAD 1
	026	165	EP BALLAD 2
	027	166	BLUES BALLAD
	028 029	167 168	JAZZ COMBO 2 JAZZ COMBO 3
	029	168	RAGTIME
	031	170	BOOGIE-WOOGIE
	032	171	PIANO ROCK & ROLL
	033	172	ARPEGGIO 1
	034	173 174	ARPEGGIO 2 ARPEGGIO 3
	036	174	PIANO MARCH 1
-		-	

Group Name/ Nombre del grupo	Group Number/ Número de grupo	Sequential Number/ Número secuencial	Rhythm name/ Nombre del ritmo
	037	176	PIANO MARCH 2
	038	177	STRIDE PIANO
	039	178	WALTZ 3
	040	179	WALTZ 4
	041	180	WALTZ 5

#### NOTE

• Sequential number rhythms 171 through 180 do not sound unless a chord is being played.

#### Î NOTA

• Los ritmos secuenciales números 171 al 180 no suenan a menos que se ejecute un acorde.

## Music Preset List/Lista de preajustes musicales

Group Name/ Nombre del grupo	Group Number/ Número de grupo	Sequential Number/ Número secuencial	Preset Name/ Nombre de preajuste
A	DODO		
	POPS 1	1	Soft Pop
	2	2	Winter Pop
	3	3	Oldies Pop
	4	4	Alpine Flora
	5	5	Gypsy
	6	6	Rain Pop
	7	7	Movie Waltz
	9	9	Blowin' in Funky Rspct
	10	10	Love Pop
	11	11	Loco
	12	12	Rising Sun
	13	13	Believer
	14	14	Pop Ska
	15 16	15 16	Weep Blues Sugar Pop
	17	17	JoyWorldPop
	18	18	My Life
	19	19	Ribbon
	20	20	Blue Love
	21	21	Xmas Pop
	22	22	Close
	23	23	Going On
	24	24	70's Pop
	25 26	25 26	West Coast Bossa Pop
	27	27	Radio Pop
	28	28	Crazy Roll
	29	29	Ivory Pop
	30	30	UK Pop
	31	31	Breath You
	32	32	A Feeling
	33	33	Calling
	34 35	34 35	Take On The World
	36	36	PlaceOnEarth
	37	37	Mexican Pop
	38	38	Guitar Pop
	39	39	W Up
	40	40	Sign
	41	41	Wonder
	42	42	Hips D Lie
	43 44	43 44	Say Right MdrnPopRock
	ROCK		Marii Opriock
	45	45	Rock Clock
	46	46	Johnny
	47	47	Heartache
	48	48	EP R&R
	49	49	Pop R&B
	50 51	50 51	60's Rock 1 60's Rock 2
	52	51 52	60's Rock 3
	53	53	60's Rock 4
	54	54	60's Rock 5
	55	55	Get Rock
	56	56	Honky Rock
	57	57	Wild Rock
	58 59	58 59	Alligator The Tiger
	60	60	Pop Rock
	61	61	16Bt Rosa
	62	62	Heat Up
	63	63	Hard Rock
	64	64	Grunge Rock
	65	65	Latin Rock
	66	66	Hanging By
	67	67	R&R
	68 69	68	Piano R&R
	70	69 70	Blues 8 Bars Blues
	71	71	Riff Rock 1
	72	72	Riff Rock 2
	73	73	Riff Rock 3
	DANCE		
	74	74	Disco Freak

Group Name/ Nombre	Group Number/ Número de	Sequential Number/ Número	Preset Name/ Nombre de preajuste					
del grupo	grupo	secuencial	1 /					
	75	75	Funky Clavi					
-	76 77	76 77	Earth Disco 70's Disco					
-	78	78	Disco Lady					
	79	79	Staying					
	80	80	Upside					
	81 82	81 82	80's Disco Give You Up					
-	83	83	Bb Girl					
	84	84	Blv Disco					
	85	85	Lady M					
-	86	86 87	Out Of My H					
-	87 88	88	Euro Pop Don't Funk					
	89	89	Trance					
	90	90	The Escape					
	JAZZ	0.1	Wonderland					
-	91 92	91 92	My Swing					
-	93	93	Things					
	94	94	Angel					
F	95	95	Time					
-	96 97	96 97	Leaf Blackbird					
-	98	98	Dolphin					
-	99	99	Roses					
	100	100	Steps					
_	101	101	RhythmChange					
-	102	102 103	Swing Mood The Mood					
	104	104	Brown Jug					
	105	105	Lullaby					
	106	106	Night					
-	107 108	107 108	Street Doll					
-	109	109	Someday					
	110	110	Mode Jazz					
	111	111	Train					
-	112 113	112 113	Tea Time Jazz Waltz					
	114	114	Home					
	115	115	Blues in F					
	116 117	116 117	Blues in Bb					
-	117	117	Blues in C					
	119	119	II-V-I					
	120	120	Minor Blues					
В	CLASSIC							
	1	121	Canon					
	2	122	Air G String					
	3	123	Je Te Veux					
-	5	124 125	Adagio Spring					
F	6	126	Ave Maria					
F	7	127	JesusBleibet					
	8	128	Symphony 25					
-	9	129	Symphony 40 HungriaDance					
-	11	130 131	Eine Kleine					
F	12	132	Pathetique					
	13	133	Moonlight					
L	14	134	PstlSymphony					
-	15 16	135 136	Ode To Joy Le Cygne					
-	17	137	Swan Lake					
	18	138	Valse Fleurs					
<u> </u>	19	139	Habanera					
-	20	140 141	Nocturne Etude					
	21		Liude					
1	21	142	FrenchCancan					
			FrenchCancan FantaisieImp					
	22 23 24	142 143 144	FantaisieImp Humoresque					
-	22 23 24 25	142 143 144 145	FantaisieImp Humoresque Pavane					
-	22 23 24	142 143 144	FantaisieImp Humoresque					
	22 23 24 25 26	142 143 144 145 146	Fantaisielmp Humoresque Pavane Hope & Glory					

Group	Group	Sequential	D (3)				
Name/ Nombre	Number/ Número de	Number/ Número	Preset Name/ Nombre de preajuste				
del grupo	grupo	secuencial	Nombre de preajuste				
J I	30	150	Nutcracker				
	31	151 152	Liebestraume				
	32	153	Gymnopedies  Jupiter				
	34	154	Entertainer				
	35	155	MapleLeafRag				
	TRAD 36	156	Michael Row				
	37	157	GrndpasClock				
	38	158	Troika				
	39	159	AuldLangSyne				
	40 41	160 161	Aloha Oe O Sole Mio				
	42	162	Furusato				
	43	163	SzlaDziweczk				
	44 45	164 165	Battle Hymn Condor				
	46	166	ScarboroFair				
	47	167	Danny Boy				
	48	168	Greensleeves				
	49 50	169 170	Annie Laurie AmazingGrace				
	51	170	WeWishU Xmas				
	52	172	Silent Night				
	53	173	Joy To World				
	54 55	174 175	YankeeDoodle Clarnt Polka				
	56	176	TaRaRaBoom				
	57	177	Double Eagle				
	58	178	Blauen Donau				
	59 60	179 180	Yellow Rose BeautDreamer				
	LATIN	100	Bodubicano				
	61	181	Moon Bossa				
	62	182	Your Smile Rio				
	63 64	183 184	Bossa Blue				
	65	185	One Note				
	66	186	Wave Bossa				
	67 68	187 188	Out Of Tune Quiet Star				
	69	189	Insentive				
	70	190	Brzl Samba				
	71	191	Orpheus				
	72 73	192 193	Tico-Tico  Beguine				
	74	194	Amapola				
	75	195	La Paloma				
	76 77	196 197	Banana Boat				
	78	198	Peanut Coffee				
	79	199	Jamaica				
	80	200	MoreBeguine				
	81 82	201 202	The No.5 Everyday				
	83	202	Mucho				
	84	204	El Tango				
	85	205	El Choclo				
	86 87	206 207	Sheriff No Woman				
	88	208	Can't Help				
	89	209	Livin'				
	90 COUNTRY	210	Whenever				
	91	211	This Land				
	92	212	My Sunshine				
	93 94	213 214	Walk Line Home Roads				
	95	214	A Friend				
	96	216	Cowboy				
	97	217	Still One				
	98 99	218 219	Breath CountryWaltz				
	100	220	He Cheats				
С							
	BALLAD 1	221	Love Ballad				
	2	222	R&B Ballad				
	3	223	Soul Ballad				
	4	224	Blues Ballad				
	5 6	225 226	MovieBallad1 MovieBallad2				

Group	Group	Sequential						
Name/ Nombre	Number/ Número de	Number/ Número	Preset Name/ Nombre de preajuste					
del grupo	grupo 7	secuencial 227	Xmas Ballad					
	8	228	Love Me					
	9	229	Oldies Bld 1					
	10	230	Oldies Bld 2					
	11 12	231	Oldies Bld 3 Oldies Bld 4					
	13	233	E World					
	14	234	Tears					
	15	235	Moon Waltz					
	16 17	236 237	A's Theme Paradise					
	18	238	60's Ballad1					
	19	239	60's Ballad2					
	20	240	Whiter Shade					
	21 22	241 242	FrenchBallad Everywhere					
	23	242	Wonderful					
	24	244	70's Ballad1					
	25	245	70's Ballad2					
	26	246	My Song					
	27 28	247 248	Bridge Img Ballad					
	29	249	Without					
	30	250	Not In Love					
	31	251	Soft Ballad					
	32 33	252 253	We Were Minor Ballad					
	33	253	Pop Ballad 1					
	35	255	Pop Ballad 2					
	36	256	PianoBallad1					
	37	257	PianoBallad2					
	38 39	258 259	Musical Bld R Ballad					
	40	260	Always Mind					
	41	261	Endless					
	42	262	80's Ballad1					
	43	263	80's Ballad2					
	44 45	264 265	80's Ballad3 80's Ballad4					
	46	266	Friends For					
	47	267	Rock Ballad					
	48	268	Eternal					
	49 50	269 270	Everything Save Best					
	51	271	Of The Road					
	52	272	I Always					
	53	273	New World					
	54	274	Vision					
	55 56	275 276	I Can Fly Wind Ballad					
	57	277	Love To You					
	58	278	My Ballad					
	59	279	Beautiful					
	60 61	280 281	Scrubs Falling					
	62	282	BlngTogether					
	63	283	B Day					
	64	284	Rap Ballad					
	65	285	Dance Ballad					
	66 67	286 287	MdrnRock Bld Slow Ballad					
	68	288	Kiss Rose					
	JAZZ BALLAD							
	69	289	Summer					
	70 71	290 291	New York B & S					
	71	291	L Alone					
	73	293	Foggy					
	74	294	Moon Swing					
	75	295	Foolish					
	76 77	296 297	Valentine Midnight					
	78	298	Journey					
	79	299	Star					
	80	300	Starlight					

#### Fingering Guide/ Guía de digitación

#### Fingered 1, Fingered 2 Chords/ Acordes Fingered 1, Fingered 2

С	
Cm	
Cdim	
Caug *3	
Csus4 *3	
Csus2 *3	
C7	
Cm7 *3	
CM7	
Cm7 <sup>b</sup> 5 *3	
C7 <sup>b</sup> 5 *3	
C7sus4	
Cadd9	
Cmadd9	
CmM7	
Cdim7 *3	
<b>C69</b> *3	
<b>C6</b> *1 *3	
Cm6 *2 *3	

- \*1 With Fingered 2, interpreted as Am7.
- \*2 With Fingered 2, interpreted as Am7<sup>b</sup>5.
- \*3 Inverted form not supported in some cases.
- \*1 Con Fingered 2, se interpreta como Am7.
- \*2Con Fingered 2, se interpreta como Am7<sup>5</sup>.
- \*3 En algunos casos no se puede usar de forma invertida.

#### Fingered 3, Full Range Chords/ Acordes Fingered 3, Full Range

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

Además de los acordes que se pueden digitar con Fingered 1 y Fingered 2, también se pueden reconocer los siguientes acordes.

$$\frac{C^{\sharp}}{C} \cdot \frac{D}{C} \cdot \frac{E}{C} \cdot \frac{F}{C} \cdot \frac{G}{C} \cdot \frac{A^{\flat}}{C} \cdot \frac{B^{\flat}}{C} \cdot \frac{B}{C} \cdot \frac{C^{\sharp}m}{C} \cdot \frac{Dm}{C} \cdot \frac{Fm}{C}$$

$$\frac{Gm}{C} \cdot \frac{Am}{C} \cdot \frac{B^{\flat}m}{C} \cdot \frac{Ddim}{C} \cdot \frac{A^{\flat}7}{C} \cdot \frac{F7}{C} \cdot \frac{Fm7}{C} \cdot \frac{Gm7}{C} \cdot \frac{A^{\flat}add9}{C}$$

#### NOTE

- With Fingered 3, the lowest note fingered is interpreted as the base note. Inverted forms are not supported.
- With Full Range Chord, when the lowest fingered is a certain distance from the neighboring note, the chord is interpreted as a fraction chord.
- Unlike Fingered 1, 2, and 3, Full Range Chord requires pressing of at least three keys to form a chord.

#### NOTA

- Con Fingered 3, la nota más baja digitada se interpreta como nota base. No se pueden usar formas invertidas.
- Con Full Range Chord, cuando la nota digitada más baja se encuentre a cierta distancia de la nota adyacente, el acorde se interpreta como un acorde bitonal.
- A diferencia de Fingered 1, 2, y 3, Full Range Chord requiere la pulsación de tres teclas como mínimo para formar un acorde.

## Chord Example List/Lista de ejemplos de acordes

G $(G^{\sharp})/A^{\flat}$ A $(A^{\sharp})/B^{\flat}$ B																		
F F#/(G <sup>b</sup> )																		
(D#)/E♭																		
$C^{\sharp}/(D^{\flat})$ D																		
Root Chord Type	M	u u	dim	and	sus4	sus2	 m7 7m	LW ZW	m7 <sup>65</sup>	592	7sus4	add9	madd9	MM7	dim7	69	9	92

• Since the chord input range is limited, this model may not support some of the chords shown above.

• Debido a que el rango de entrada de acordes es limitado, es posible que este modelo no admita algunos de los acordes mostrados arriba.

## **MIDI Implementation Chart**

F	unction	Transmitted	Recognized	Remarks			
Basic Channel	Default Changed	1 - 16 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 ** : sin relación			
After Touch	Key's Ch's	X X	X O				
Pitch Bender	,	0	0				
Control Change	0,32 1 5 6,38 7 10 11 16 17 18 19 64 65 66 67 76 77 8 80 81 82 83 84 91 93 100,101	0 X X X X X X X X X X X X X	000000000000000000000000000000000000000	Bank select Modulation Portamento Time Data entry LSB, MSB*2 Volume Pan Expression DSP Parameter0*2 DSP Parameter1*2 DSP Parameter3*2 DSP Parameter3*2 Damper Portamento Switch Sostenuto Soft pedal Vibrato depth Vibrato depth Vibrato delay DSP Parameter5*2 DSP Parameter5*2 DSP Parameter5*2 DSP Parameter6*2 DSP Parameter5*2 DSP Parameter6*2 PSP Parameter6*3 PSP Parameter6*4 PSP Parameter6*5 PSP PARAMETER PS PARAMETER PS PARAMETER PS PARAMETER PS PARAMETER			
Program Change	:True #	O ****	O 0 - 127				
System Excl	usive	0	0	*2			
System Common	: Song Pos : Song Sel : Tune	X X X	X X X				
System Real Time	: Clock : Commands	0	X X				
Aux Messages	: All sound off : Reset all controller : Local ON/OFF : All notes OFF : Active Sense : Reset	O O X O X X	O O X O O X				
Remarks		*1 : Depends on tone *2 : For details, see MIDI Implementation at <a href="http://world.casio.com/">http://world.casio.com/</a> . *1 : Depende del tono *2 : Si desea más información, vea Implementación MIDI en <a href="http://world.casio.com/">http://world.casio.com/</a> .					

Mode 1 : OMNI ON, POLY Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON, MONO Mode 4 : OMNI OFF, MONO O : Yes X : No



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